

TEST REPORT

Application No.: GZEM2102001013HS
Applicant: GD Midea Air-conditioning Equipment Co., Ltd.
Address of Applicant: Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
Manufacturer: The same as Applicant
Address of Manufacturer: The same as Applicant
Factory: 1. GD Midea Air-conditioning Equipment Co., Ltd.
 2. Guangzhou Hualing Refrigerating Equipment Co., Ltd
Address of Factory: 1. Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
 2. 6 Meide 1st Road, Zhujiang Industrial Park, Zhujiang Street, Nansha, Guangzhou, China

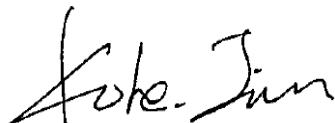
Equipment Under Test (EUT):

EUT Name: Air-Conditioner
Model No.: Please refer to Page 3 for all models.
Trade Mark: Midea; MDV
Standards: Please refer to Page 2 for details.
Date of Test: 2020-10-12 to 2020-10-28
Date of Issue: Please refer to Page 2 for details.

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.
 This report GZEM160400166922 supersedes the previous report GZEM160400166921, issued on 10 March 2021, which is hereby deemed null and void.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.


 Kobe Jian
 EMC Laboratory Manager



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Date of Issue:

2016-07-19 (for the report GZEM160400166901)
 2016-12-13 (for the report GZEM160400166902)
 2017-01-10 (for the report GZEM160400166903)
 2017-09-29 (for the report GZEM160400166904)
 2017-12-28 (for the report GZEM160400166905)
 2018-01-22 (for the report GZEM160400166906)
 2018-06-20 (for the report GZEM160400166908)
 2018-10-16 (for the report GZEM160400166909)
 2018-12-10 (for the report GZEM160400166910)
 2019-02-28 (for the report GZEM160400166911)
 2019-07-03 (for the report GZEM160400166915)
 2019-08-19 (for the report GZEM160400166916)
 2019-11-29 (for the report GZEM160400166917)
 2020-03-04 (for the report GZEM160400166918)
 2020-06-16 (for the report GZEM160400166919)
 2020-12-03 (for the report GZEM160400166920)
 2021-03-30 (for the report GZEM160400166922)



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Standards:

For models:

M3OE-27HFN8-Q + MSABAU-09HRFN8-QRD0GW,
 MSABBU-12HRFN8-QRD0GW, MSABDU-18HRFN8-QRD0GW.
 M2OC-18HFN8-Q + MCA3I-09HRFN8-QRD0, MCA3I-18HRFN8-QRC8W.
 M2OG-14HFN8-Q + MSAFBU-07HRDNX-QRD0GW,
 MSAFCU-18HRFNX-QRD0GW
 M2OG-14HFN8-Q + MSABAU-09HRFN8-QRD0GW,
 MSABDU-18HRFNX-QRD0GW
 M3OF-21HFN8-Q + 2 × MSAFBU-07HRDNX-QRD0GW,
 MSAFCU-18HRFNX-QRD0GW
 M3OF-21HFN8-Q + 2 × MSABAU-09HRFN8-QRD0GW,
 MSABDU-18HRFNX-QRD0GW
 M4OE-28HFN8-Q + 3 × MSAFBU-07HRDNX-QRD0GW,
 MSAFCU-18HRFNX-QRD0GW
 M4OE-28HFN8-Q + 3 × MSABAU-09HRFN8-QRD0GW,
 MSABDU-18HRFNX-QRD0GW
 M3OF-21HFN8-Q+MTIU-07HWFNX-QRD0W+ MTIU-09HWFNX-QRD0W
 + MTIU-12HWFNX-QRD0W,
 M2OD-18HFN8-Q+MCA3I-07HRFNX-QRD0+MCA3U-18HRFNX-QRD0W,
 M3OF-27HFN8-Q+MTIU-18HWFNX-QRD0W+MTIU-12HWFNX-QRD0W
 M2OD-18HFN8-Q+MCA3I-07HRFNX-QRD0+MCA3U-18HRFNX-QRD0W
 M3OF-27HFN8-Q+MTIU-18HWFNX-QRD0W+MTIU-12HWFNX-QRD0W
 EN 55014-1:2017+A11:2020, EN 55014-2:2015,
 EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019

For other models:

EN 55014-1:2017+A11:2020, EN 55014-2:2015,
 EN 61000-3-12:2011, EN 61000-3-11:2000

For model:

OU: M4OB-36HFN8-Q,
 IU: MTIU-09HWFNX-QRD0W, MCA3U-18HRFN8-QRC8W,
 MSAFDU-24HRFNX-QRD0GW, MZAU-42HWFN8-QD2W,
 EN 55014-1:2017+A11:2020, EN 55014-2:2015,
 EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
 EN 61000-3-12:2011, EN 61000-3-11:2000

For Models A & B:

EN 55014-1:2017+A11:2020, EN 55014-2:2015,
 EN 61000-3-12:2011, EN 61000-3-11:2000



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Model No.:

Indoor Units: MSABAU-09HRFN8-QRD0GW, MSABBU-12HRFN8-QRD0GW, MSABDU-18HRFN8-QRD0GW, MSABEU-24HRFN8-QRD0GW, MCA3I-09HRFN8-QRD0, MCA3U-12HRFN8-QRD0W, MCA3I-18HRFN8-QRC8W, MSAEBU-09HRFN8-QRD6GW, MSAEBU-12HRFN8-QRD6GW, MSAECU-18HRFN8-QRD0GW, MSABAU-09HRFNX-QRD0GW, MSABBU-12HRFNX-QRD0GW, MSABDU-18HRFNX-QRD0GW, MSABEU-24HRFNX-QRD0GW, MSAEAU-09HRFNX-QRD0GW, MSAEBU-12HRFNX-QRD0GW, MSAECU-18HRFNX-QRD0GW, MSAEDU-24HRFNX-QRD0GW, MCA3I-09HRFNX-QRD0, MCA3U-12HRFNX-QRD0W, MCA3U-18HRFNX-QRC8W, B-MSABAU-09HRFNX-QRD0GW, B-MSABBU-12HRFNX-QRD0GW, B-MSABDU-18HRFNX-QRD0GW, B-MSABEU-24HRFNX-QRD0GW, B-MCA3I-09HRFNX-QRD0, B-MCA3U-12HRFNX-QRD0W, B-MCA3U-18HRFNX-QRC8W, MCA3U-18HRFN8-QRC8W, MSAFBU-09HRDN8-QRD0GW, MSAFBU-12HRDN8-QRD0GW, MSAFCU-18HRFN8-QRD0GW, MSAFDU-24HRFN8-QRD0GW, MSAFBU-09HRDNX-QRD0GW, MSAFBU-12HRDNX-QRD0GW, MSAFCU-18HRFNX-QRD0GW, MSAFDU-24HRFNX-QRD0GW, MSAFBU-07HRDNX-QRD0GW, MTIU-07HWFN8-QRD0W, MTIU-09HWFN8-QRD0W, MTIU-12HWFN8-QRD0W, MCA3I-07HRFNX-QRD0, MTIU-18HWFN8-QRD0W, MCA3U-18HRFNX-QRD0W, MCA3I-07FNXD0, MCA3I-09FNXD0, MCA3U-12FNXD0, MCA3U-18FNXC8, MSMABU-09HRDN8-QRD0GW, MSMABU-12HRDN8-QRD0GW, MSMACU-18HRFNX-QRD0GW(GA), MSMADU-24HRFNX-QRD0GW(GA), MSAGDU-24HRFN8-QRD0GW, MSAGBU-12HRFNX-QRD0GW, MSAGCU-18HRFNX-QRD0GW, MSAGAU-09HRFNX-QRD0GW, MSAGBU-09HRFN8-QRD1GW(GA), MZAU-42HWFN8-QD2W, MSAFBU-12HRDNX-QRD0FGW, MSAGBU-12HRFN8-QRD1GW(GA), MSABBU-12HRFN8-QRD6GW, MSEPCU-18HRFN8-QRD0GW, MSEPBU-12HRFN8-QRD6GW, MSEPDU-24HRFN8-QRD0GW, MSABBU-09HRFN8-QRD6GW, MSAEBU-09HRFN8-QRD6GW, MSEPBU-09HRFN8-QRD6GW;

Outdoor Units: M3OE-27HFN8-Q, M2OC-18HFN8-Q, M4OB-36HFN8-Q, M5OD-42HFN8-Q, B-M2OC-18HFN8-Q, B-M3OE-27HFN8-Q, B-M4OB-36HFN8-Q, B-M5OD-42HFN8-Q, M2OG-14HFN8-Q, M2OD-18HFN8-Q, M3OF-21HFN8-Q, M3OF-27HFN8-Q, M4OE-28HFN8-Q, M2O-14FN8-Q, M2O-18FN8-Q, MTII-09FNXD0, M2OD-18HFN8-Q, M3O-21FN8-Q, M4O-28FN8-Q, M3O-27FN8-Q, M3OF-27HFN8-Q, M4O-36FN8-Q, M5O-42FN8-Q, M5OE-42HFN8-Q, MUL-18KR32D2 OU, MUL-27KR32D3 OU, MUL-36KR32D4 OU, MUL-42KR32D5 OU. □

Please refer to section 2 of this report for details.

□



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Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-07-19		Original
01		2016-12-13		Copy report: Added new models.
02		2017-01-10		Copy report: Added new indoor units.
03		2017-09-29		Copy report: Added appearance photo, changed address and added new indoor units and outdoor units.
04		2017-12-28		Copy report: updated standard and added one new indoor unit.
05		2018-01-22		Copy report: added new indoor units.
06		2018-06-20		Copy report: added one new alternative motor.
07		2018-10-16		Copy report: added five new outdoor units and one new indoor unit, and added the name and address of Factory.
08		2018-12-10		Copy report: added new indoor units.
09		2019-02-28		Copy report: added new indoor units.
10		2019-07-03		Copy report: added one new Factory, one new Trade Mark and new models.
11		2019-08-19		Copy report: added new indoor units.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
12		2019-11-29		Copy report: updated standard, reduced one Factory & one Trade Mark and added new indoor units.
13		2020-03-04		Copy report: added one new hydraulic module.
14		2020-06-16		Copy report: updated standard and added new indoor units.
15		2020-12-03		Copy report: added new indoor units and one new outdoor unit.
16		2021-03-10		Copy report: updated standard and added new outdoor units. (null)
17		2021-03-30		Amendment report: added one new Trade Mark.

Authorized for issue by:			
Tested By			
	Roy Su /Project Engineer	2020-10-12 to 2020-10-28	Date
Checked By			
	Cherie Luo /Reviewer	2021-02-25	Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017 +A11:2020	CISPR 16-2-1	N/A	Pass
Conducted Disturbance at Load Terminals and Additional Terminals	EN 55014-1:2017 +A11:2020	CISPR 16-2-1	N/A	Pass
Disturbance Power	EN 55014-1:2017 +A11:2020	CISPR 16-2-2	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2017 +A11:2020	EN 55014-1:2017 +A11:2020	N/A	Pass
Harmonic Current Emission	EN 61000-3-11:2000	EN 61000-3-11:2000	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-12:2011	EN 61000-3-12:2011	Clause 6.2	Pass

N/A: Not applicable



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Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port and Signal lines	EN 55014-2:2015	EN 61000-4-4:2012	AC cable: $\pm 1.0\text{kV}$ Signal lines: $\pm 0.5\text{kV}$ 5/50ns Tr/Th 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 55014-2:2015	EN 61000-4-5:2014	1.2/50 μs Tr/Th 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port and Signal lines(150kHz-230MHz)	EN 55014-2:2015	EN 61000-4-6:2014	AC: 3V r.m.s (emf), Signal lines: 1V r.m.s (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN 55014-2:2015	EN 61000-4-11:2004	0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per UT is Supply Voltage	Pass



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Remark for report GZEM160400166901

Indoor Unit:

MSABAU-09HRFN8-QRD0GW, MSABBU-12HRFN8-QRD0GW, MSABDU-18HRFN8-QRD0GW, MCA3I-09HRFN8-QRD0, MCA3U-12HRFN8-QRD0W, MCA3I-18HRFN8-QRC8W

Outdoor Unit:

M3OE-27HFN8-Q, M2OC-18HFN8-Q

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for models MCA3I-09HRFN8-QRD0 & MCA3U-12HRFN8-QRD0W, with only difference being the model name.

Therefore only models **shown as below** were tested in the report.

No. (In this whole report):	Outdoor Unit:	Indoor Unit:	No. (In this whole report):
#1:	M3OE-27HFN8-Q	MSABAU-09HRFN8-QRD0GW	Indoor Unit 1
		MSABBU-12HRFN8-QRD0GW	Indoor Unit 2
		MSABDU-18HRFN8-QRD0GW	Indoor Unit 3
#2:	M2OC-18HFN8-Q	MCA3I-09HRFN8-QRD0	Indoor Unit 1
		MCA3I-18HRFN8-QRC8W	Indoor Unit 2

Remark for report GZEM160400166902

This report GZEM160400166902 was a supplement report based on and only valid with original report GZEM160400166901, only added new models as below:

Indoor Unit: MSABEU-24HRFN8-QRD0GW

Outdoor Unit: M4OB-36HFN8-Q, M5OD-42HFN8-Q

According to the declaration from the applicant, the new models added in updated report were totally different with the original models.

Therefore new full tests were performed on models **shown as below** in updated report.

No. (In this whole report):	Outdoor Unit:	Indoor Unit:	No. (In this whole report):
#3:	M4OB-36HFN8-Q	MSABAU-09HRFN8-QRD0GW	Indoor Unit 1
		MSABAU-09HRFN8-QRD0GW	Indoor Unit 1
		MSABBU-12HRFN8-QRD0GW	Indoor Unit 2
		MSABDU-18HRFN8-QRD0GW	Indoor Unit 3
#4:	M5OD-42HFN8-Q	MSABAU-09HRFN8-QRD0GW	Indoor Unit 1
		MSABBU-12HRFN8-QRD0GW	Indoor Unit 2
		MSABDU-18HRFN8-QRD0GW	Indoor Unit 3
		MSABEU-24HRFN8-QRD0GW	Indoor Unit 4

Only new data was shown in this report, other data please refer to original report for details.



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Remark for report GZEM160400166903

This report GZEM160400166903 was a supplement report based on and only valid with original report GZEM160400166902, only added new indoor units as below:

Indoor Units:

MSAEBU-09HRFN8-QRD6GW, MSAEBU-12HRFN8-QRD6GW, MSAECU-18HRFN8-QRD0GW, MSAEDU-24HRFN8-QRD0GW

According to the declaration from the applicant, the new models added in updated report were totally different with the original models, but for the new models MSAEBU-09HRFN8-QRD6GW and MSAEBU-12HRFN8-QRD6GW were totally the same, except for the model name.

Full test was performed on below collocation in this report.

No. (In this whole report):	Outdoor Unit:	Indoor Unit:	No. (In this whole report):
#5:	M5OD-42HFN8-Q	MSAEBU-09HRFN8-QRD6GW	Indoor Unit 1
		MSAEBU-12HRFN8-QRD6GW	Indoor Unit 2
		MSAECU-18HRFN8-QRD0GW	Indoor Unit 3
		MSAEDU-24HRFN8-QRD0GW	Indoor Unit 4

Only new data was shown in this report, other data please refer to original report for details.

Remark for the report GZEM160400166904

This report GZEM160400166904 was an additional report copied from the previous report GZEM160400166903, in which address of Applicant & Manufacturer & Factory and new indoor units & outdoor units were supplemented.

1. Changed address of Applicant & Manufacturer & Factory:

Address of Applicant & Manufacturer & Factory in previous report	Address of Applicant & Manufacturer & Factory in updated report
Midea Industrial City, Beijiao, Shunde, Foshan, 528311 Guangdong, China	Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China



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2. Added new models:

Units	Model No. in previous report	Model No. added in updated report	Remark of difference	
Indoor Units	MSABAU-09HRFN8-QRD0GW	MSABAU-09HRFNX-QRD0GW	Model name	
	MSABBU-12HRFN8-QRD0GW	MSABBU-12HRFNX-QRD0GW		
	MSABDU-18HRFN8-QRD0GW	MSABDU-18HRFNX-QRD0GW		
	MSABEU-24HRFN8-QRD0GW	MSABEU-24HRFNX-QRD0GW		
	MSAEBU-09HRFN8-QRD6GW	MSAEAU-09HRFNX-QRD0GW		
	MSAEBU-12HRFN8-QRD6GW	MSAEBU-12HRFNX-QRD0GW		
	MSAECU-18HRFN8-QRD0GW	MSAECU-18HRFNX-QRD0GW		
	MSAEDU-24HRFN8-QRD0GW	MSAEDU-24HRFNX-QRD0GW		
	MCA3I-09HRFN8-QRD0	MCA3I-09HRFNX-QRD0		
	MCA3U-12HRFN8-QRD0W	MCA3U-12HRFNX-QRD0W		
	MCA3I-18HRFN8-QRC8W	MCA3I-18HRFNX-QRC8W		
	MSABAU-09HRFN8-QRD0GW	B-MSABAU-09HRFNX-QRD0GW	Model name and panel	
	MSABBU-12HRFN8-QRD0GW	B-MSABBU-12HRFNX-QRD0GW		
	MSABDU-18HRFN8-QRD0GW	B-MSABDU-18HRFNX-QRD0GW		
	MSABEU-24HRFN8-QRD0GW	B-MSABEU-24HRFNX-QRD0GW		
	Indoor Units	MCA3I-09HRFN8-QRD0	B-MCA3I-09HRFNX-QRD0	Model name
MCA3U-12HRFN8-QRD0W		B-MCA3U-12HRFNX-QRD0W		
MCA3I-18HRFN8-QRC8W		B-MCA3I-18HRFNX-QRC8W		
Outdoor Units		M2OC-18HFN8-Q	B-M2OC-18HFN8-Q	Model name
		M3OE-27HFN8-Q	B-M3OE-27HFN8-Q	
		M4OB-36HFN8-Q	B-M4OB-36HFN8-Q	
	M5OD-42HFN8-Q	B-M5OD-42HFN8-Q		

According to the declaration of the applicant, the Models listed in each row of above table were identical, with only difference being the model name.

Therefore original data was kept in this report GZEM160400166904

Remark for the report GZEM160400166905

This report GZEM160400166905 was an additional report based on the previous report GZEM160400166904, just updated standard and added one new indoor unit.

1. Updated standard:

Standard in previous report	Standard in updated report
EN 55014-1:2006 +A1:2009+A2:2011	EN 55014-1:2017

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard(s) without further testing.



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2. Added one new indoor unit: MCA3U-18HRFN8-QRC8W.

According to the declaration of the applicant, the Model **MCA3U-18HRFN8-QRC8W** supplemented in this report and **MCA3I-18HRFN8-QRC8W** in the previous report were identical, with only difference being the outer decoration.

Therefore original data was kept in this report GZEM160400166905.

Remark for the report GZEM160400166906

This test report GZEM160400166906 is an additional report based on and only valid with the previous test report GZEM160400166905, just added new indoor units.

Details were shown as below:

1. Added new indoor units:

MSAFBU-09HRDN8-QRD0GW, MSAFBU-12HRDN8-QRD0GW, MSAFCU-18HRFN8-QRD0GW, MSAFDU-24HRFN8-QRD0GW, MSAFBU-09HRDNX-QRD0GW, MSAFBU-12HRDNX-QRD0GW, MSAFCU-18HRFNX-QRD0GW, MSAFDU-24HRFNX-QRD0GW.

According to the declaration of the applicant, the indoor units MSAFBU-09HRDN8-QRD0GW, MSAFBU-12HRDN8-QRD0GW, MSAFCU-18HRFN8-QRD0GW and MSAFDU-24HRFN8-QRD0GW supplemented in this report and indoor units in the previous report were totally different, therefore below models were performed full test in this report.

Mode 6:

OU: M4OB-36HFN8-Q,

IU: MSAFBU-09HRDN8-QRD0GW, MSAFBU-09HRDN8-QRD0GW, MSAFBU-12HRDN8-QRD0GW, MSAFCU-18HRFN8-QRD0GW,

Molde 7:

OU: M5OD-42HFN8-Q,

IU: MSAFBU-09HRDN8-QRD0GW, MSAFBU-09HRDN8-QRD0GW, MSAFBU-12HRDN8-QRD0GW, MSAFDU-24HRFN8-QRD0GW.

In addition, indoor units in each row of below table were identical, except for the model name.

Model No. added in updated report	Model No. added in updated report
MSAFBU-09HRDN8-QRD0GW	MSAFBU-09HRDNX-QRD0GW
MSAFBU-12HRDN8-QRD0GW	MSAFBU-12HRDNX-QRD0GW
MSAFCU-18HRFN8-QRD0GW	MSAFCU-18HRFNX-QRD0GW
MSAFDU-24HRFN8-QRD0GW	MSAFDU-24HRFNX-QRD0GW

For original test data please refer to the report GZEM160400166905.



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Remark for the report GZEM160400166908

This test report GZEM160400166908 is an additional report based on and only valid with the previous test report GZEM160400166906, just added one new alternative motor to all outdoor units. Considering to the new motor, new Emission Part tests were performed on below model in this report:
Model 8: IU: MCA3I-09HRFN8-QRD0, MCA3I-18HRFN8-QRC8W + OU: M2OC-18HFN8-Q.

For original test data please refer to the report GZEM160400166906.

Remark for the report GZEM160400166909

This test report GZEM160400166909 is an additional report based on and only valid with the previous test report GZEM160400166908, just added five new outdoor units and one new indoor unit and added one new factory.

1. Added five new outdoor units;

M2OG-14HFN8-Q, M2OD-18HFN8-Q, M3OF-21HFN8-Q, M3OF-27HFN8-Q, M4OE-28HFN8-Q.

According to the declaration of the applicant, the outdoor unit supplemented in this report and the previous report were totally different, detailed configuration were showed as below.

Outdoor unit	Motor	PCB	Compressor
M2OG-14HFN8-Q	ZKFN-34-8-1-3	KFR-35W/BP3N1-(RX62T+41560).D.13.WP2-1	KSN140D21UFZ
M2OD-18HFN8-Q	Ditto	Ditto	Ditto
M3OF-21HFN8-Q	ZKFN-50-8-2-3	CE-KFR80W/BP2T4N1(AC MOTOR)-310.JD.FW.WXWKB.WP1	KSN140D21UFZ
M3OF-27HFN8-Q	Ditto	Ditto	KTM240D57UMT
M4OE-28HFN8-Q	ZKFN-120-8-2	Ditto	KTM240D57UMT

2. Added one new indoor unit: MSAFBU-07HRDNX-QRD0GW

According to the declaration of the applicant, the indoor unit supplemented in this report and the model MSAFBU-09HRDN8-QRD0GW in original report were identical. detailed configuration were showed as below.

Indoor unit	Motor	PCB
MSAFBU-07HRDNX-QRD0GW (in updated report)	YKFG-13-4-38L-4	CE-KFR26G/BP2N1Y-AE.JD.GN.WXNK.NP1.2
MSAFBU-09HRDN8-QRD0GW (in original report)	YKFG-13-4-38L-4	CE-KFR26G/BP2N1Y-AE.JD.GN.WXNK.NP1.2

3. Added one new factory.

Name of new Factory in updated report	Address of new Factory in updated report
Guangzhou Hualing Refrigerating Equipment Co., Ltd.	6 Meide 1st Road, Zhujiang Industrial Park, Zhujiang Street, Nansha, Guangzhou, China



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Considering the different, below models were performed full test in this report.

- Model 9: M2OG-14HFN8-Q + MSAFBU-07HRDNX-QRD0GW, MSAFCU-18HRFNX-QRD0GW**
- Model 10: M2OG-14HFN8-Q + MSABAU-09HRFN8-QRD0GW, MSABDU-18HRFNX-QRD0GW**
- Model 11: M3OF-21HFN8-Q + 2 × MSAFBU-07HRDNX-QRD0GW, MSAFCU-18HRFNX-QRD0GW**
- Model 12: M3OF-21HFN8-Q + 2 × MSABAU-09HRFN8-QRD0GW, MSABDU-18HRFNX-QRD0GW**
- Model 13: M4OE-28HFN8-Q + 3 × MSAFBU-07HRDNX-QRD0GW, MSAFCU-18HRFNX-QRD0GW**
- Model 14: M4OE-28HFN8-Q + 3 × MSABAU-09HRFN8-QRD0GW, MSABDU-18HRFNX-QRD0GW**

For original test data please refer to the report GZEM160400166908.

Remark for the report GZEM160400166910

This test report GZEM160400166910 is an additional report based on and only valid with the previous test report GZEM160400166909, just added four new indoor units.

1. Added four new indoor units:

MTIU-07HWFNX-QRD0W, MTIU-09HWFNX-QRD0W, MTIU-12HWFNX-QRD0W, MCA3I-07HRFNX-QRD0.

According to the declaration of the applicant, the indoor unit **MCA3I-07HRFNX-QRD0** supplemented in this report and the indoor unit **MCA3I-09HRFN8-QRD0** in original report were identical, with only difference on the model name. others indoor unit supplemented in this report were different on motor and PCB with original report indoor unit. detailed configuration were showed as below.

Model No.	Motor	PCB
MTIU-07HWFNX-QRD0W	ZKFN-55-8-22-1	EU-KFR160T2/BP3N1X-B.JD.T.NK.NP1-1
MTIU-09HWFNX-QRD0W		
MTIU-12HWFNX-QRD0W		

Considering the differences, full tests were performed on

Model 15: M3OF-21HFN8-Q+MTIU-07HWFNX-QRD0W+ MTIU-09HWFNX-QRD0W + MTIU-12HWFNX-QRD0W.

For original test data please refer to the report GZEM160400166909.



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Remark for the report GZEM160400166911

This test report GZEM160400166911 is an additional report based on and only valid with the previous test report GZEM160400166910, just added two new indoor units.

1. Added two new indoor units: MTIU-18HWFNX-QRD0W, MCA3U-18HRFNX-QRD0W.

Detailed configuration were showed as below.

Model No.	Motor	PCB
MTIU-18HWFNX-QRD0W	ZKFN-160-8-1-2	EU-KFR160T2/BP3N1X-B.JD.T.NK.NP1-1
MCA3U-18HRFNX-QRD0W	ZKFP-46-8-1	EU-KFR160Q4/BP3N1Y-D.D.16.NP1-1

Considering the new model added in this report, full tests were performed on

Model 16: M2OD-18HFN8-Q + MCA3I-07HRFNX-QRD0 + MCA3U-18HRFNX-QRD0W

Model 17: M3OF-27HFN8-Q + MTIU-18HWFNX-QRD0W + MTIU-12HWFNX-QRD0W

For original test data please refer to the report GZEM160400166910.

Remark for the report GZEM160400166915

This report GZEM160400166915 was an additional report based on the previous report GZEM160400166911, just added one new Factory, one new Trade Mark and new models.

1. Added one new Factory:

Name of new Factory in updated report	Address of new Factory in updated report
Wuhu Maty Air-Conditioning Equipment Co., Ltd.	47 Hengshan Road, Economic and Technological Development Zone, Wuhu, Anhui, China

2. Added one new Trade Mark: MDV.

3. Added new models:

Indoor Unit:

MCA3I-07FNXD0, MCA3I-09FNXD0, MCA3U-12FNXD0, MCA3U-18FNXC8;

Outdoor Unit:

M2O-14FN8-Q, M2O-18FN8-Q, MTII-09FNXD0, M2OD-18HFN8-Q, M3O-21FN8-Q, M4O-28FN8-Q,

M3O-27FN8-Q, M3OF-27HFN8-Q, M4O-36FN8-Q, M5O-42FN8-Q.

According to the declaration of the applicant, models listed in each row of below table were identical, except for the model name.



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Units	Model No. in previous report	Model No. added in updated report
Indoor Units	MCA3I-07HRFNX-QRD0	MCA3I-07FNXD0
	MCA3I-09HRFNX-QRD0	MCA3I-09FNXD0
	MCA3U-12HRFNX-QRD0W	MCA3U-12FNXD0
	MCA3U-18HRFNX-QRC8W	MCA3U-18FNXC8
Outdoor Units	M2OG-14HFN8-Q	M2O-14FN8-Q
	M2OC-18HFN8-Q	M2O-18FN8-Q
	MTIU-09HWFNX-QRD0W	MTII-09FNXD0
	M2OC-18HFN8-Q	M2OD-18HFN8-Q
	M3OF-21HFN8-Q	M3O-21FN8-Q
	M4OE-28HFN8-Q	M4O-28FN8-Q
	M3OE-27HFN8-Q	M3O-27FN8-Q
	M3OF-27HFN8-Q	M3OF-27HFN8-Q
	M4OB-36HFN8-Q	M4O-36FN8-Q
	M5OD-42HFN8-Q	M5O-42FN8-Q

Therefore original data were kept in this report GZEM160400166915.

Remark for the report GZEM160400166916

This test report GZEM160400166916 is an additional report based on and only valid with the previous test report GZEM160400166915, just added new indoor units.

Added new indoor units: MSMABU-09HRDN8-QRD0GW, MSMABU-12HRDN8-QRD0GW, MSMACU-18HRFNX-QRD0GW(GA), MSMADU-24HRFNX-QRD0GW(GA).

According to the declaration of the applicant, the indoor units supplemented in this report and indoor units in the original report were totally different.

Considering to the difference, new full tests were performed on below model in this report:

OU: M4OB-36HFN8-Q,

IU: MSMABU-09HRDN8-QRD0GW, MSMABU-12HRDN8-QRD0GW, MSMACU-18HRFNX-QRD0GW(GA), MSMADU-24HRFNX-QRD0GW(GA).

For original test data please refer to the report GZEM160400166915.



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Remark for the report GZEM160400166917

This test report GZEM160400166917 is an additional report based on and only valid with the previous test report GZEM160400166916, just updated standard, reduced one Factory & one Trade Mark and added new indoor units.

Details were shown as below:

1. Updated Standard:

Standard in previous report	Standard in updated report
EN 61000-3-2:2014	EN IEC 61000-3-2:2019

2. Reduced one Factory:

Name of Factory in previous report	Address of Factory in previous report
Wuhu Maty Air-Conditioning Equipment Co., Ltd.	47 Hengshan Road, Economic and Technological Development Zone, Wuhu, Anhui, China

3. Reduced one Trade Mark: MDV.

4. Added new indoor units:

**MSAGDU-24HRFN8-QRD0GW, MSAGBU-12HRFNX-QRD0GW,
 MSAGCU-18HRFNX-QRD0GW, MSAGAU-09HRFNX-QRD0GW,
 MSAGBU-09HRFN8-QRD1GW(GA).**

According to the declaration of the applicant, the indoor units supplemented in this report and indoor units in the previous report were total different.

Considering to the new indoor units, new full tests were performed on below models in this report:

Model A: OU: M5OD-42HFN8-Q

**IU: MSAGAU-09HRFNX-QRD0GW*2+MSAGBU-09HRFN8-QRD1GW(GA)+
 MSAGBU-12HRFNX-QRD0GW+MSAGDU-24HRFN8-QRD0GW;**

Model B: OU: M4OB-36HFN8-Q

**IU: MSAGAU-09HRFNX-QRD0GW+MSAGBU-09HRFN8-QRD1GW(GA)+
 MSAGBU-12HRFNX-QRD0GW+MSAGCU-18HRFNX-QRD0GW.**

Only new data was shown in this report GZEM160400166917, for original data please refer to reports GZEM160400166901, GZEM160400166902, GZEM160400166905, GZEM160400166906, GZEM160400166908, GZEM160400166909, GZEM160400166910, GZEM160400166915 & GZEM160400166916 for details.



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Remark for the report GZEM160400166918

This test report GZEM160400166918 is an additional report based on and only valid with the previous test report GZEM160400166917, just added one new hydraulic module.

Added one new hydraulic module: MZAU-42HWFN8-QD2W.

Considering to the new hydraulic module, new full tests were performed on below model in this report:

OU: M4OB-36HFN8-Q,

IU: MTIU-09HWFN8-QRD0W, MCA3U-18HRFN8-QRC8W, MSAFDU-24HRFN8-QRD0GW, MZAU-42HWFN8-QD2W.

Only new data was shown in this report GZEM160400166918, for original data please refer to reports GZEM160400166901, GZEM160400166902, GZEM160400166905, GZEM160400166906, GZEM160400166908, GZEM160400166909, GZEM160400166910, GZEM160400166915, GZEM160400166916 & GZEM160400166917 for details.

Remark for the report GZEM160400166919

This test report GZEM160400166919 was an additional report based on the previous test report GZEM160400166918, just updated standard and added new indoor units.

1. Updated below standard:

Standard in previous report	Standard in updated report
EN 61000-3-3:2013	EN 61000-3-3:2013+A1:2019

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard(s) without further testing.

2. Added new indoor units: MSAFBU-12HRDN8-QRD0FGW, MSAGBU-12HRFN8-QRD1GW(GA).

According to the declaration of the applicant, Models listed in each row of below table were identical, except for information as below:

Model No. in previous report	Model No. added in updated report	Differences
MSAFBU-12HRDN8-QRD0GW	MSAFBU-12HRDN8-QRD0FGW	Model name
MSAGBU-09HRFN8-QRD1GW(GA)	MSAGBU-12HRFN8-QRD1GW(GA)	Parameter program

Therefore original data was kept in this report GZEM160400166919.



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Remark for the report GZEM160400166920

This test report GZEM160400166920 was an additional report based on the previous test report GZEM160400166919, just added new indoor units and one new outdoor unit.

New indoor units:

MSABBU-12HRFN8-QRD6GW, MSEPCU-18HRFN8-QRD0GW, MSEPBU-12HRFN8-QRD6GW, MSEPDU-24HRFN8-QRD0GW, MSABBU-09HRFN8-QRD6GW, MSAEUBU-09HRFN8-QRD6GW, MSEPBU-09HRFN8-QRD6GW;

New outdoor unit: M5OE-42HFN8-Q.

According to the declaration of the applicant, the indoor units and outdoor unit supplemented in this report and indoor units & outdoor unit in the previous report were total different.

In addition, models listed in each row of below table were identical, except for model name:

Model No. added in updated report	Model No. added in updated report
MSABBU-12HRFN8-QRD6GW	MSABBU-09HRFN8-QRD6GW
MSEPBU-12HRFN8-QRD6GW	MSEPBU-09HRFN8-QRD6GW
Model No. in previous report	Model No. added in updated report
MSAEUBU-12HRFN8-QRD6GW	MSAEUBU-09HRFN8-QRD6GW

Considering to the different indoor units & outdoor unit, new full tests were performed on below models in this report:

Model A: IU: MSABBU-12HRFN8-QRD6GW+MSABBU-12HRFNX-QRD0GW+MSAFBU-12HRDNX-QRD0FGW+MSAGBU-12HRFNX-QRD0GW+ MSEPCU-18HRFN8-QRD0GW+OU: M5OE-42HFN8-Q;

Model B: IU: MSEPBU-12HRFN8-QRD6GW+MSAEUBU-12HRFN8-QRD6GW+MTIU-09HWFN8-QRD0W+MCA3U-18HRFNX-QRD0W+ MSEPDU-24HRFN8-QRD0GW+ OU: M5OE-42HFN8-Q.

Only new data was shown in this report GZEM160400166920, for original data please refer to reports GZEM160400166901, GZEM160400166902, GZEM160400166905, GZEM160400166906, GZEM160400166908, GZEM160400166909, GZEM160400166910, GZEM160400166915, GZEM160400166916, GZEM160400166917 & GZEM160400166919 for details.

▣ Remark for the report GZEM160400166922

This report GZEM160400166922 was an additional report based on the previous report GZEM160400166920, just updated standard and added one new Trade Mark & new outdoor units.

1. Updated standard:

Standard in previous report	Standard in updated report
EN 55014-1:2017	EN 55014-1:2017+A11:2020

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard(s) without further testing.



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2. Added one new Trade Mark: MDV.

3. Added new outdoor units: MUL-18KR32D2 OU, MUL-27KR32D3 OU, MUL-36KR32D4 OU, MUL-42KR32D5 OU.

According to the declaration of the applicant, Models listed in each row of below table were identical, with only difference being the model name.

Model No. in previous report	Model No. added in updated report
M2OD-18HFN8-Q	MUL-18KR32D2 OU
M3OF-27HFN8-Q	MUL-27KR32D3 OU
M4O-36FN8-Q	MUL-36KR32D4 OU
M5O-42FN8-Q	MUL-42KR32D5 OU

Therefore original data was kept in this report GZEM160400166922.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	Outdoor Unit: AC 220-240V, 50Hz
Power Port:	Outdoor Unit: 3 wires x about 1.8m unscreened AC mains cable
Test Voltage:	AC 230V, 50Hz
Interconnection cord:	20 wires x 5m unscreened interconnection cord

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test Location

All tests were performed at:
 Test center of GD Midea Air-conditioning Equipment Co., Ltd.
 Address: Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
 Contact Person: Wenli Yan
 Email: yanwl@midea.com
 Tel: 0757-23271145

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None

4.6 Monitoring of EUT for All Immunity Test

Visual: Motor running and LED display indication of the EUT.
 Audio: Sounding Beeper.



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5 Equipment List

Conducted Emission & Click & Interference Power						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	EMI Test Receiver	Rohde & Schwarz	ESCI	101102	2020/8/6	2021/8/5
2	EMI Test Receiver	Rohde & Schwarz	ESCI	101089	2020/3/5	2021/3/4
3	Absorbing clamp	Rohde & Schwarz	MDS21	100957	2019-11-31	2020/12/1
4	Absorbing clamp	Rohde & Schwarz	MDS21	100958	2019-11-31	2020/12/1
5	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-621	2020/8/6	2021/8/5
6	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101761	2020/8/6	2021/8/5
7	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101902	2020/2/26	2021/2/25
8	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101903	2020/2/26	2021/2/25
9	Click Analyser	AFJ	AFJDDA55	14041605036	2020/7/20	2021/7/19
10	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-636	2020/3/5	2021/3/4
11	Assistant Absorbing clamp	luthi	FTC40*15E	5742	2020/5/11	2021/5/10
12	Assistant Absorbing clamp	luthi	FTC 101	5071	2020/2/26	2021/2/25
13	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100339	2020/2/26	2021/2/25
14	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100610	2020/1/7	2021/1/6
16	RF Switching	EVERFINE	RF-A41	G185841CD1361114	2020/1/16	2021/1/15
17	RF Switching	EVERFINE	RF-A41	G185841CD1361113	2020/1/16	2021/1/15
18	Coaxial-Cable	/	1m	003	2020/2/26	2021/2/25
19	Coaxial-Cable	/	2m	EMC-11	2020/2/26	2021/2/25
20	Coaxial-Cable	HUBER+SUHNER	0.5M	EMC-19	2020/3/5	2021/3/5
21	Coaxial-Cable	HUBER+SUHNER	0.5M	EMC-18	2020/3/5	2021/3/5
22	Coaxial-Cable	HUBER+SUHNER	7m	EMC-16	2020/2/26	2021/2/25
Harmonic Current /Flicker						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Power source	EM TEST	ACS503N30	P1421134515	2020/5/7	2021/5/6
2	Harmonic and Flicker test system	EM TEST	DPA503N/AIF503N32.1	P1342125054/P1413132941	2020/5/7	2021/5/6
3	Harmonic and Flicker Analyzer System	TESEQ	INA2197 NA2196 CCN 1000-3-75	1607A00622 1606A03019 1606A02959	2020/5/8	2021/5/7
4	AC Source	TESEQ	NSG1007-60-400	1605A03180/1611A	2020/5/8	2021/5/7
Electrostatic Discharge Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
2	ESD Simulator	EM TEST	ESDNX30	23089	2019-11-31	2020/12/1



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EFT/ Burst						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
2	Capacitive clamp	EM TEST	HFK	0109-22	2019/11/23	2020/11/22
3	Capacitive clamp	EM TEST	HFK	0109-22 (1)	2019/11/23	2020/11/22
3	Generator	EM TEST	EFT 500 N5.1	P1805213907	2020/8/6	2021/8/5

Surge Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	ULTRA COMPACT GENERATOR	TESEQ	NSG 3060	1833	2019/11/23	2020/11/22
2	3 PHASE COUPLING NETWORK	EM TEST	CDN 3063	2206	2019/11/23	2020/11/22
3	ULTRA COMPACT GENERATOR	EM TEST	VCS500-N8	V1133110472	2020/3/5	2021/3/4
4	3 PHASE COUPLING NETWORK	EM TEST	CNI 503 5S	V1133110473	2020/3/5	2021/3/4

CI						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Signal line COUPLING AND DECOUPLING NETWORK	Luthi	EM101	36191	2019/11/22	2020/11/21
2	Signal line COUPLING NETWORK	EM TEST	CDN S8 RJ45	P1345125804	2019/11/22	2020/11/21
3	COUPLING NETWORK	EM TEST	CDN M5-32	P1246125922	2019/11/22	2020/11/21
4	CI test system	EM TEST	CWS500N1	P1315117096	2020/5/11	2021/5/10
5	Attenuator	EM Test	HAT-20+	YUU29101544-01	2020/5/11	2021/5/10
6	Attenuator	EM Test	ATTA 6/75	P1306112984	2019/11/22	2020/11/21
7	Attenuator	EM TEST	R100N	P1402128642/P1402128643	2020/5/11	2021/5/10
8	Attenuator	EM TEST	R100N	P1402128641/P1402128643	2020/5/11	2021/5/10
9	Attenuator	EM TEST	R100N	P1402128641/P1402128642	2020/5/11	2021/5/10
10	(3 Phase Coupling Decoupling Network)	SCHAFFNER	CDNM525	21133	2019/11/22	2020/11/21
11	RF Generator	TESEQ	NSG-4070	37531	2020/8/6	2021/8/5
12	single-phase Coupling /decoupling networks	TESEQ	CDN M016	21267	2019/11/22	2020/11/21
13	EM Clamp	TESEQ	KEMZ 801	22028	2019/11/22	2020/11/21

Voltage Dips and Interruptions Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Power drop simulator	Teseq	NSG2200-3	1607A01980	2020/5/21	2021/5/20



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6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
Limit:	
0.15MHz-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5MHz-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 150KHz to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 27 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Pretest these modes to find the worst case:

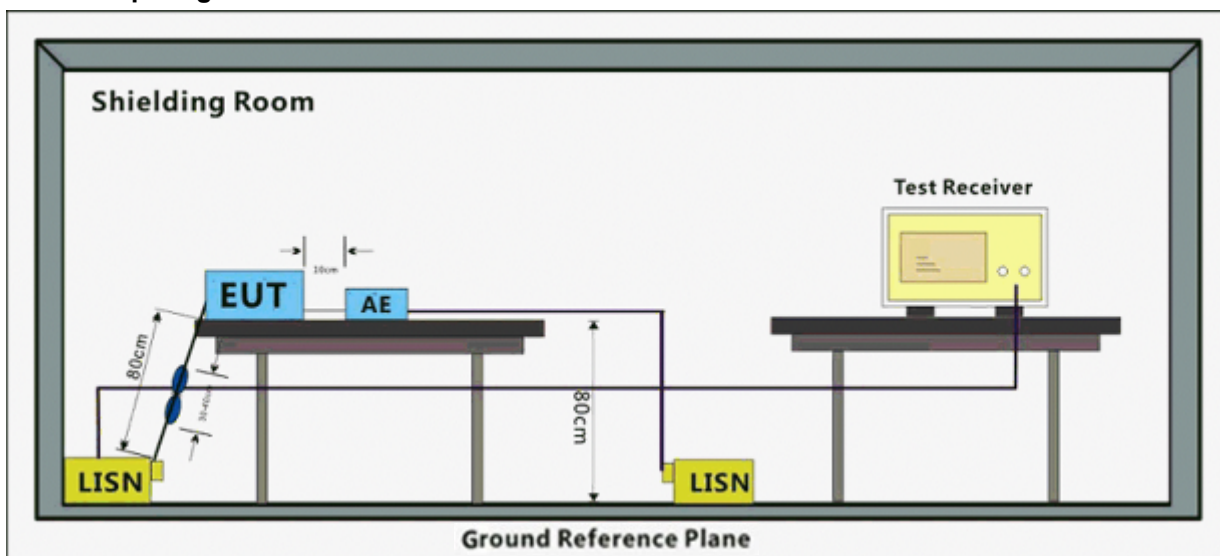
b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

The worst case for final test:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.1.2 Test Setup Diagram



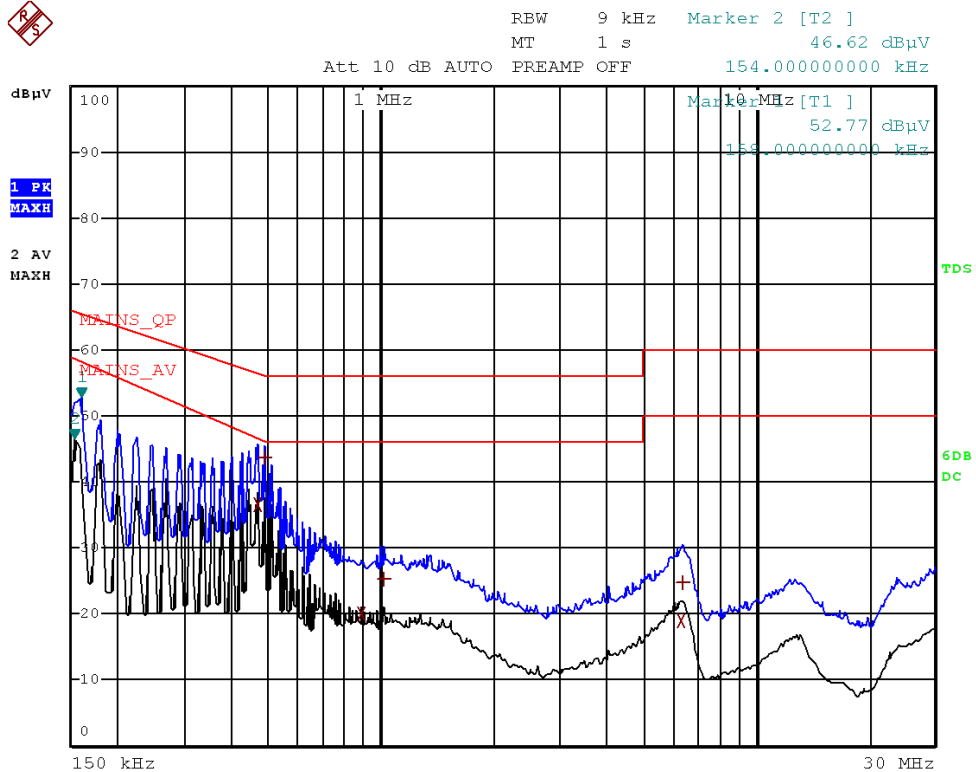
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6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A

COOL-L

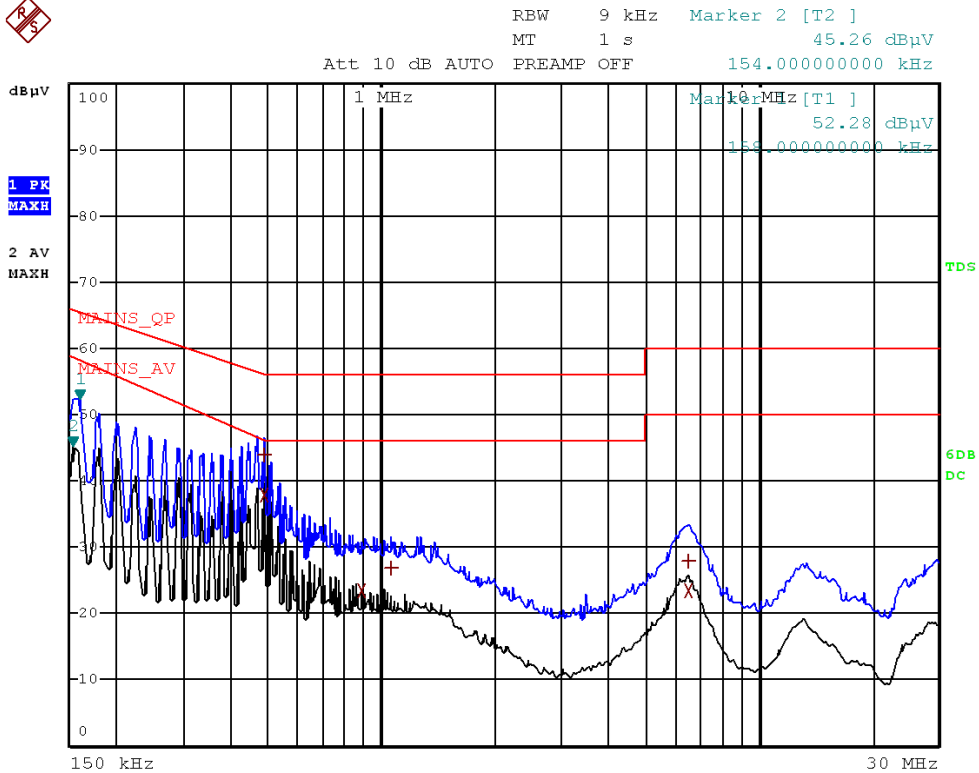


TRACK	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	466 kHz	36.49	-10.26
1 Quasi Peak	486 kHz	43.65	-12.57
2 Average	886 kHz	20.16	-25.83
1 Quasi Peak	1.018 MHz	25.39	-30.60
2 Average	6.322 MHz	19.01	-30.98
1 Quasi Peak	6.390 MHz	24.68	-35.31



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COOL-N



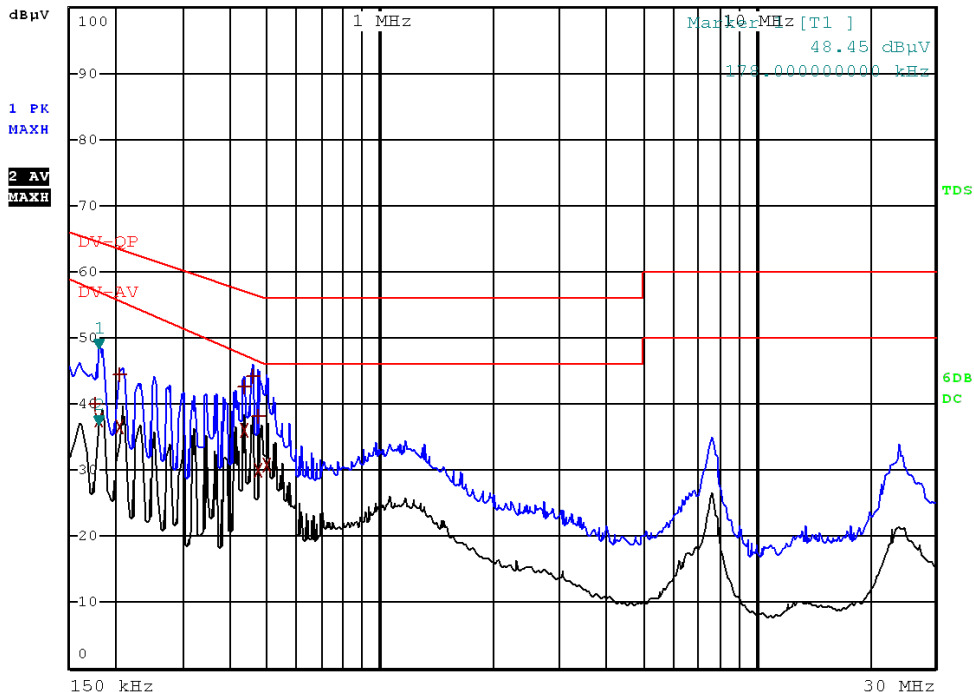
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	486 kHz	37.94	-8.35
1 Quasi Peak	486 kHz	43.98	-12.25
2 Average	886 kHz	23.49	-22.51
2 Average	6.502 MHz	23.56	-26.43
1 Quasi Peak	1.062 MHz	26.81	-29.18
1 Quasi Peak	6.502 MHz	27.83	-32.16



For Model B
COOL-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 36.79 dBμV
Att 10 dB AUTO PREAMP OFF 178.00000000 kHz



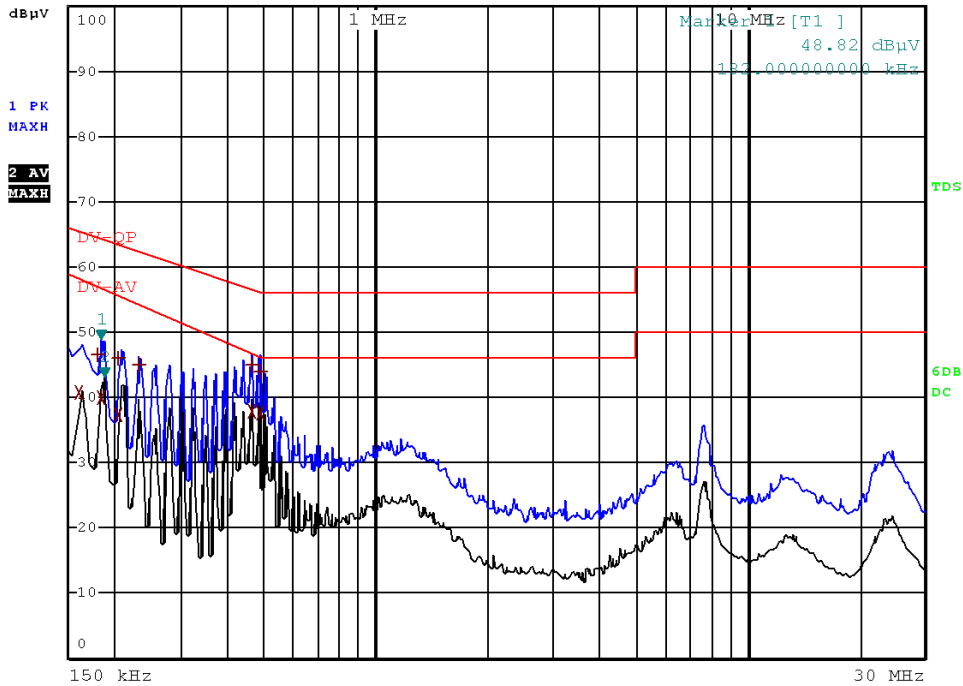
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	434 kHz	36.05	-11.46
1 Quasi Peak	458 kHz	44.22	-12.50
1 Quasi Peak	434 kHz	42.59	-14.58
2 Average	498 kHz	30.83	-15.21
2 Average	474 kHz	29.99	-16.58
1 Quasi Peak	474 kHz	38.24	-18.19
1 Quasi Peak	206 kHz	44.43	-18.93
2 Average	206 kHz	36.53	-19.04
2 Average	182 kHz	37.74	-19.16
1 Quasi Peak	178 kHz	40.00	-24.57



COOL-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 43.29 dBµV
 Att 10 dB AUTO PREAMP OFF 186.000000000 kHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	486 kHz	37.55	-8.75
2 Average	462 kHz	37.90	-8.95
1 Quasi Peak	462 kHz	44.93	-11.72
1 Quasi Peak	486 kHz	43.92	-12.31
2 Average	186 kHz	39.98	-16.69
1 Quasi Peak	230 kHz	45.14	-17.30
2 Average	162 kHz	40.83	-17.33
1 Quasi Peak	206 kHz	45.93	-17.43
1 Quasi Peak	182 kHz	46.59	-17.79
2 Average	206 kHz	37.52	-18.04



6.2 Conducted Disturbance at Load Terminals and Additional Terminals

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-1
Limit:	
0.15MHz - 0.5 MHz	80dB(μV) quasi-peak, 70dB(μV) average
0.5MHz-30MHz	74dB(μV) quasi-peak, 64dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15MHz to 30MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

The worst case for final test:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.



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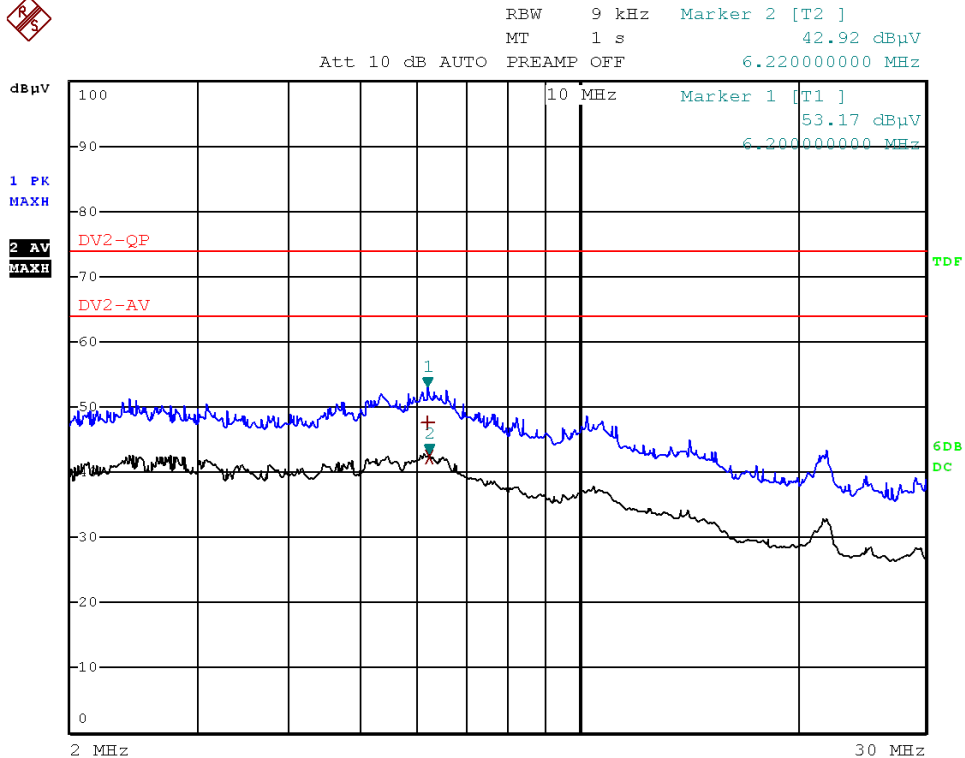
6.2.2 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A

MSABBU-12HRFN8-QRD6GW

COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.22 MHz	42.46	-21.53
1 Quasi Peak	6.2 MHz	47.70	-26.29

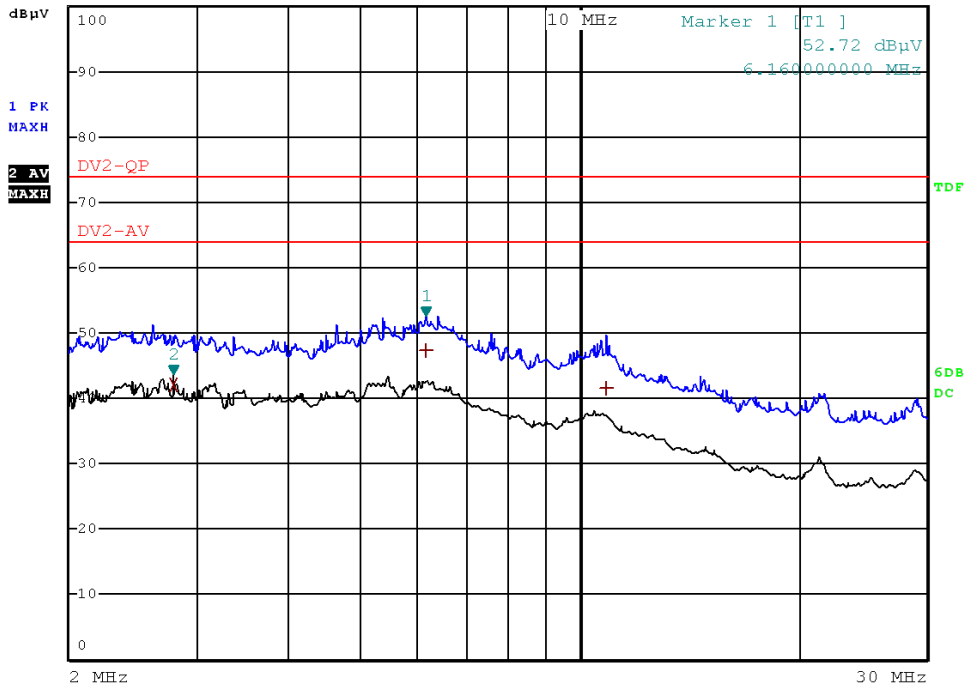


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 43.60 dBμV
 Att 10 dB AUTO PREAMP OFF 2.780000000 MHz

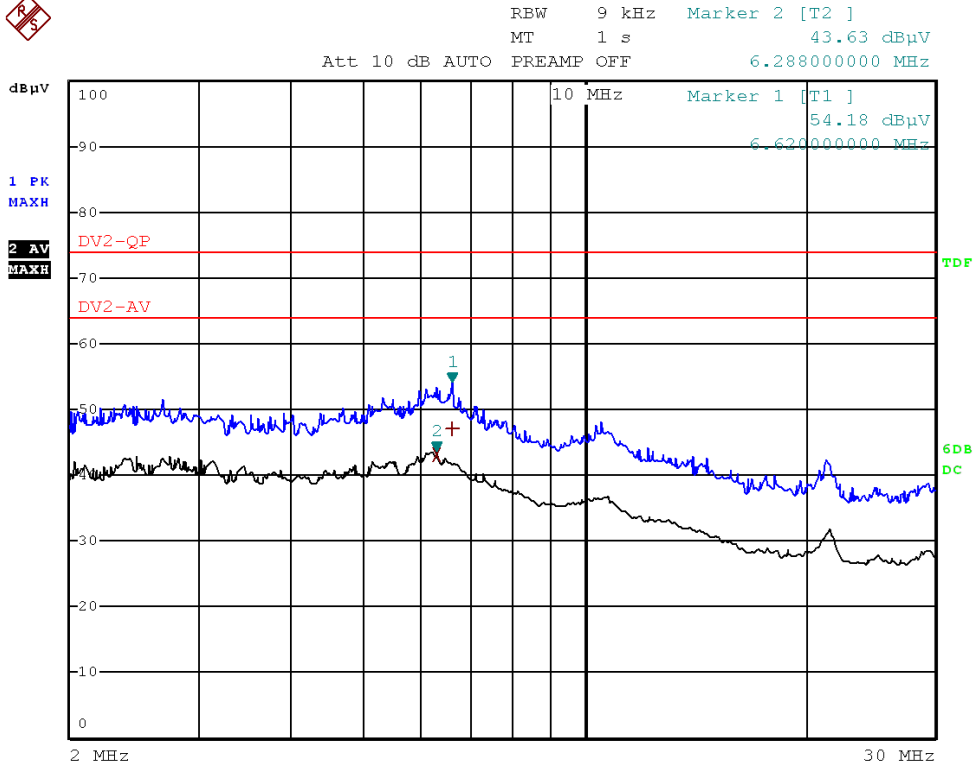


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.78 MHz	42.17	-21.82
1 Quasi Peak	6.16 MHz	47.48	-26.51
1 Quasi Peak	10.908 MHz	41.68	-32.32



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COOL-IN- S



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.288 MHz	43.22	-20.77
1 Quasi Peak	6.62 MHz	47.19	-26.80

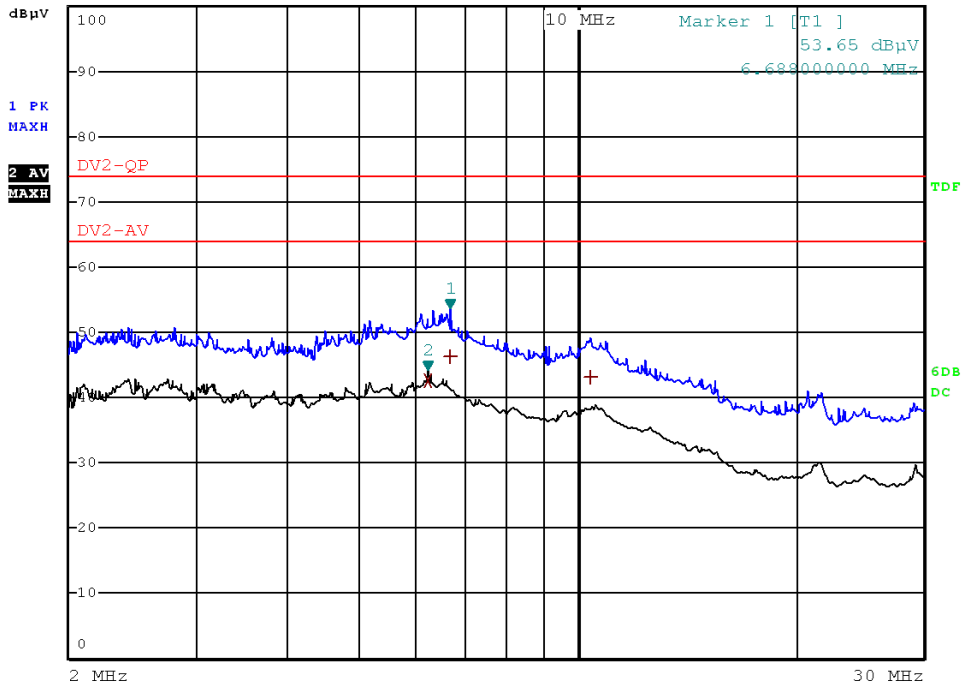


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COOL-IN-PE



RBW 9 kHz Marker 2 [T2]
MT 1 s 44.13 dBμV
Att 10 dB AUTO PREAMP OFF 6.220000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.22 MHz	42.56	-21.44
1 Quasi Peak	6.688 MHz	46.42	-27.57
1 Quasi Peak	10.42 MHz	43.11	-30.88

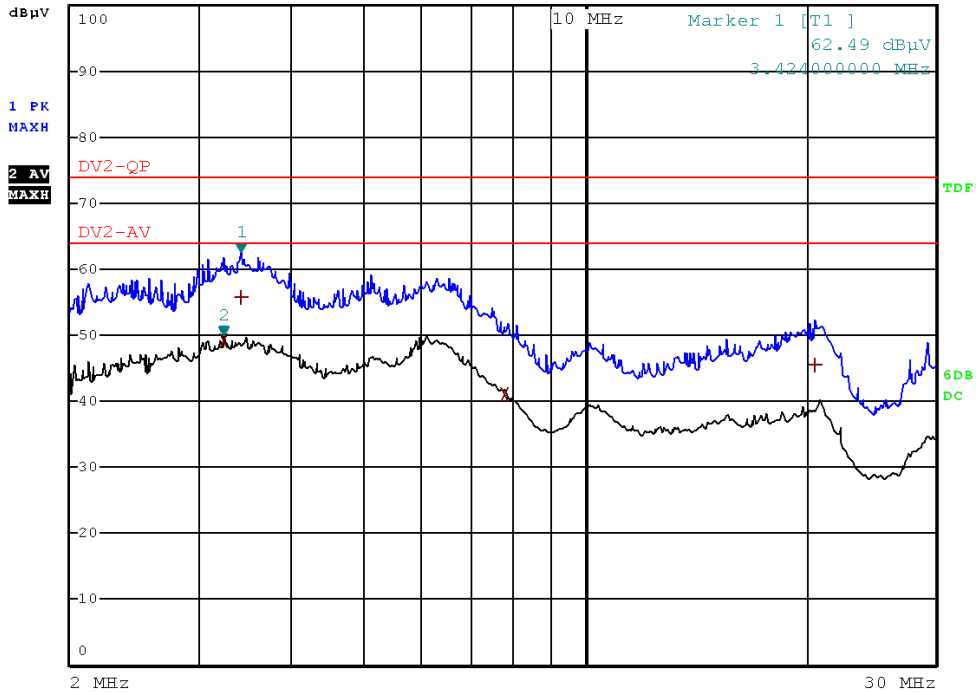


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MSEPCU-18HRFN8-QRD0GW
COOL-IN-1L



RBW 9 kHz Marker 2 [T2]
MT 1 s 49.98 dBμV
Att 10 dB AUTO PREAMP OFF 3.22800000 MHz

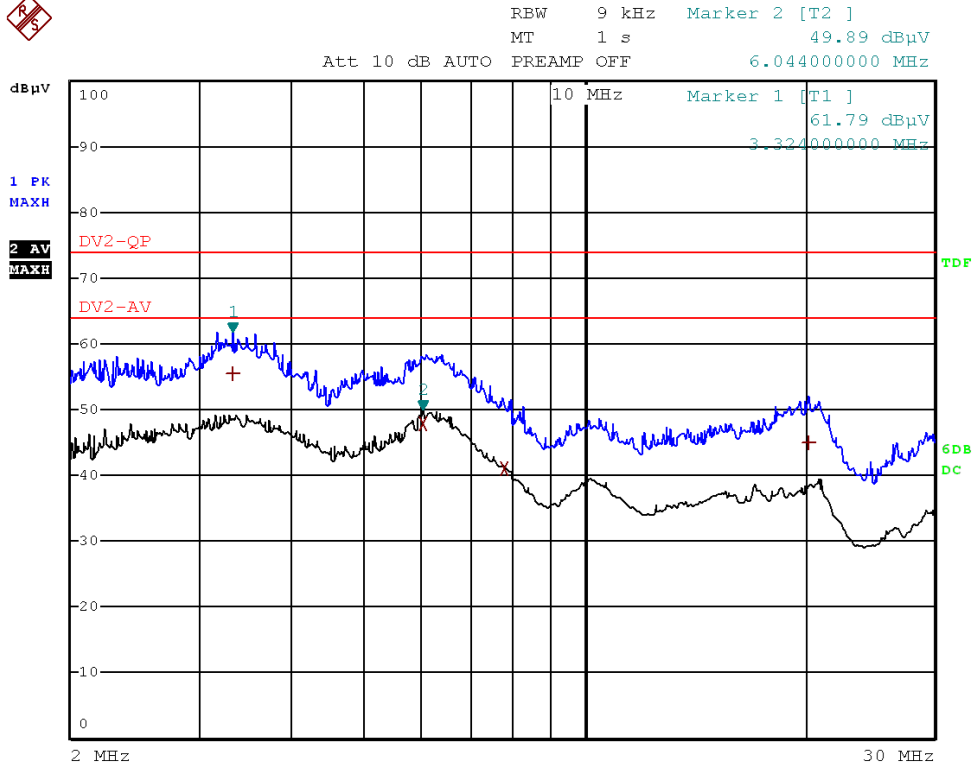


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	3.228 MHz	49.19	-14.80
1 Quasi Peak	3.424 MHz	55.72	-18.27
2 Average	7.772 MHz	40.95	-23.04
1 Quasi Peak	20.556 MHz	45.58	-28.41



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COOL-IN-2N

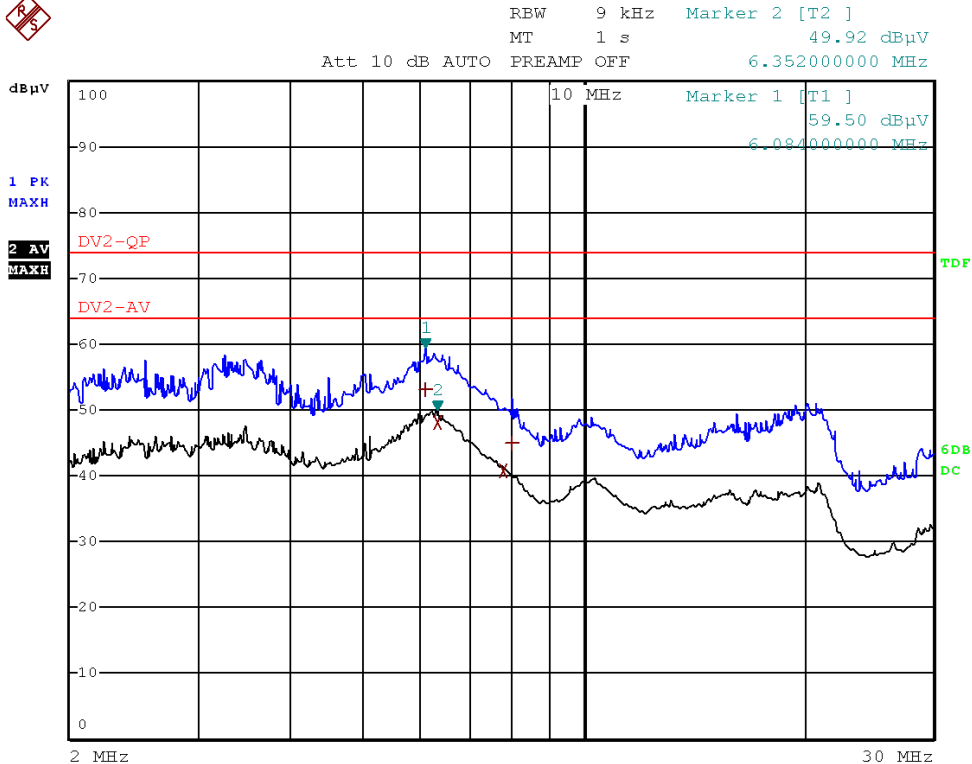


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.044 MHz	47.79	-16.21
1 Quasi Peak	3.324 MHz	55.54	-18.45
2 Average	7.768 MHz	40.96	-23.03
1 Quasi Peak	20.22 MHz	45.05	-28.94



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COOL-IN-S

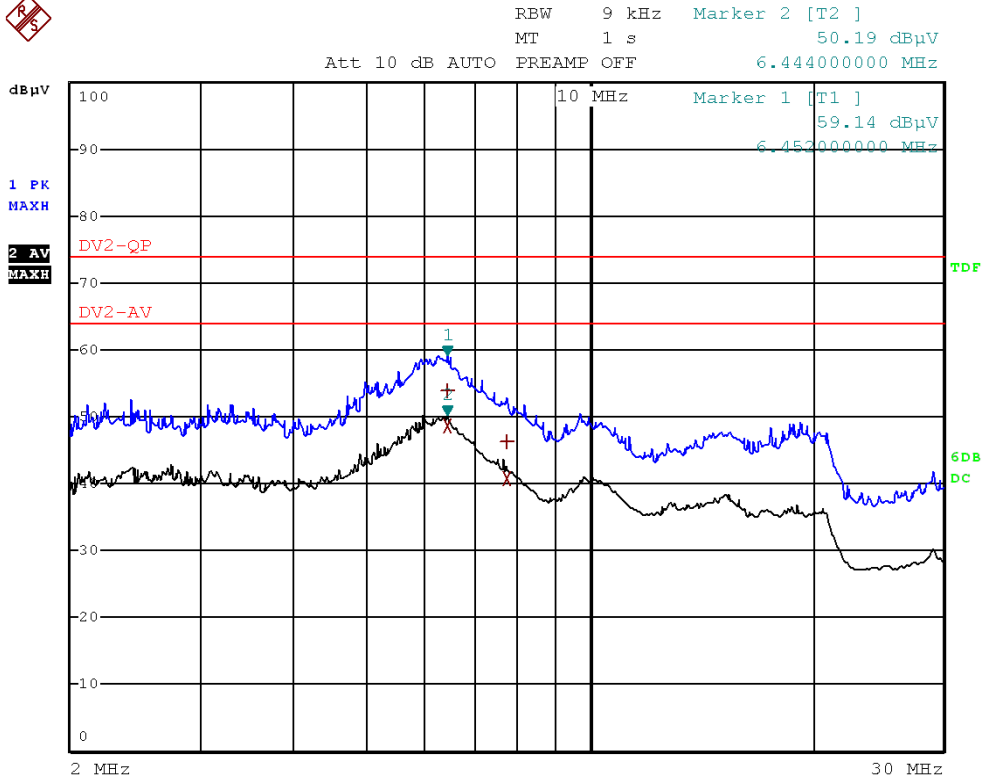


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.352 MHz	48.12	-15.87
1 Quasi Peak	6.084 MHz	53.24	-20.75
2 Average	7.768 MHz	40.83	-23.16
1 Quasi Peak	8.016 MHz	44.95	-29.04



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COOL-IN-PE

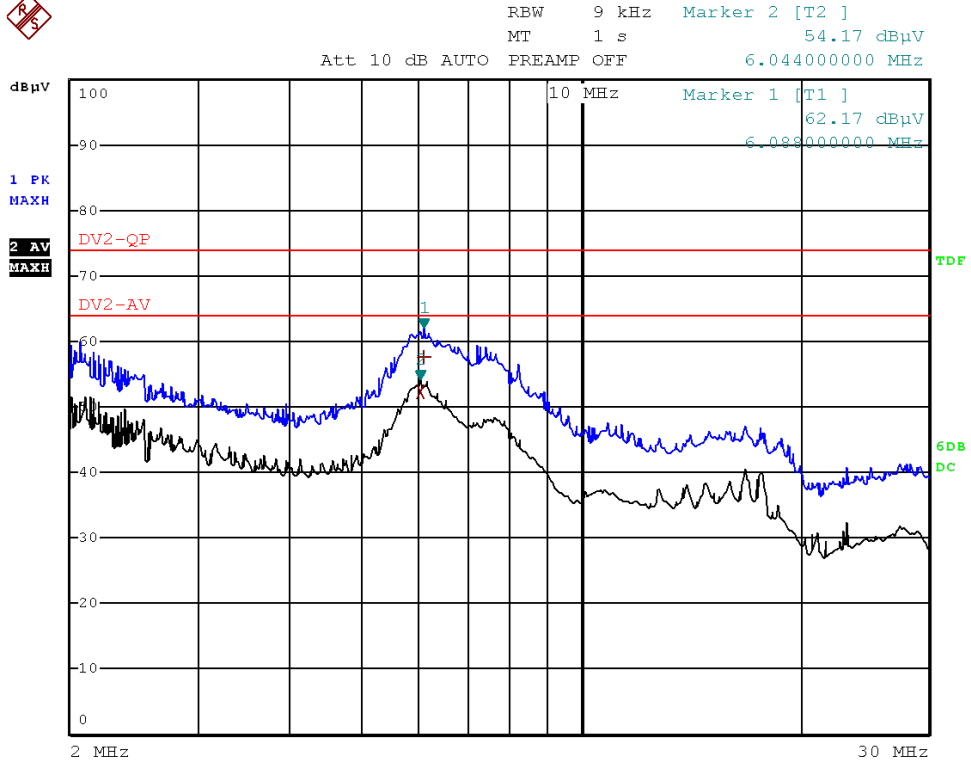


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.444 MHz	48.70	-15.29
1 Quasi Peak	6.452 MHz	53.85	-20.14
2 Average	7.76 MHz	40.88	-23.11
1 Quasi Peak	7.76 MHz	46.36	-27.63



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MSAGBU-12HRFNX-QRD0GW
COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.044 MHz	52.48	-11.52
1 Quasi Peak	6.088 MHz	57.60	-16.40



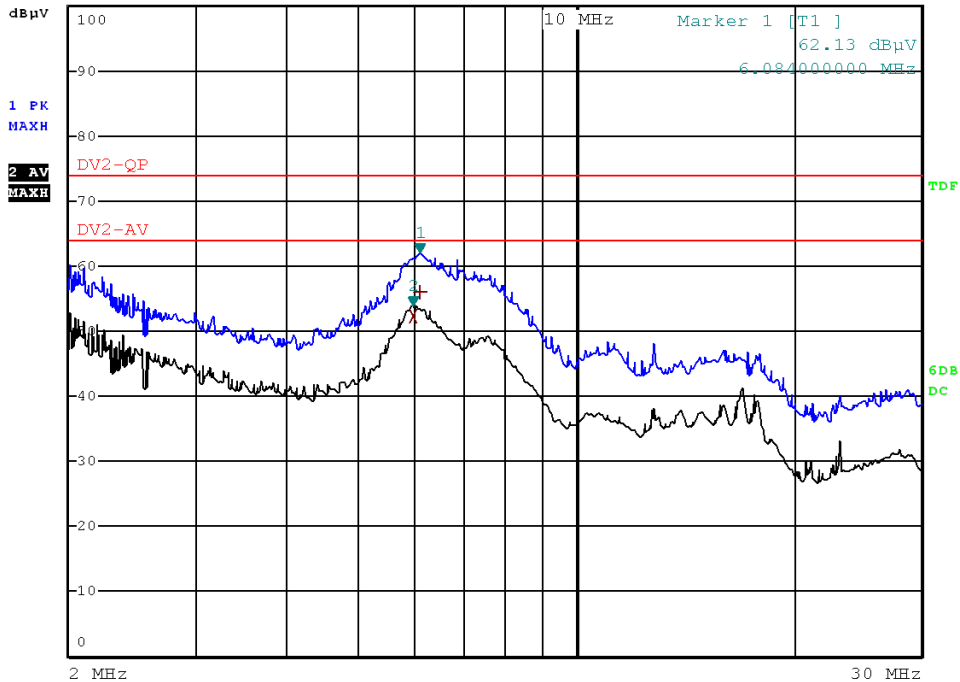
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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 53.96 dBμV
 Att 10 dB AUTO PREAMP OFF 5.976000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.976 MHz	52.02	-11.68
1 Quasi Peak	6.084 MHz	55.94	-18.05

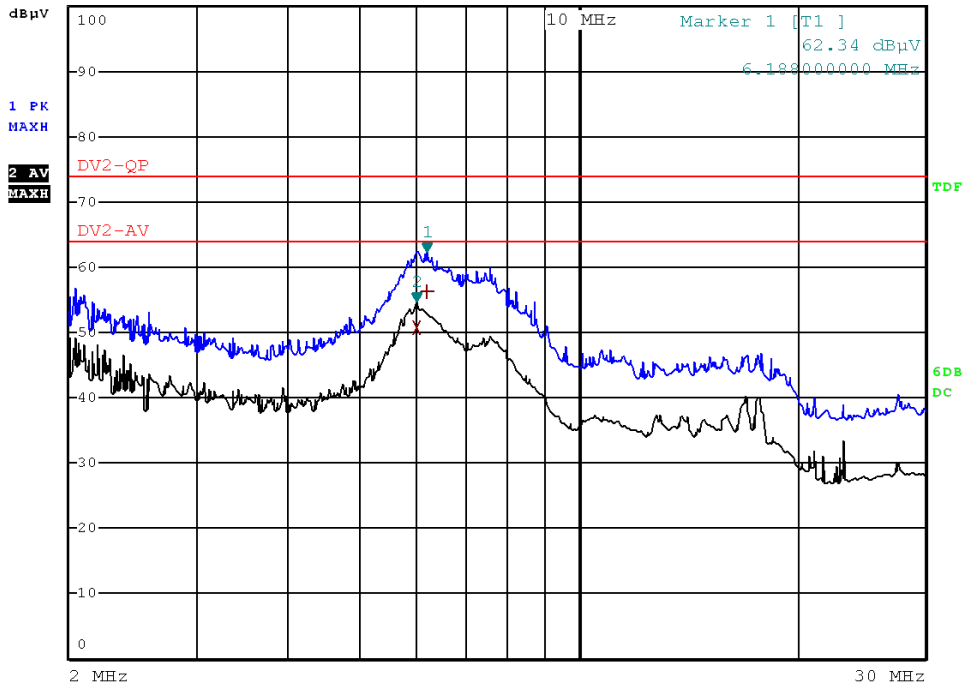


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COOL-IN-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 54.82 dBµV
 Att 10 dB AUTO PREAMP OFF 5.988000000 MHz

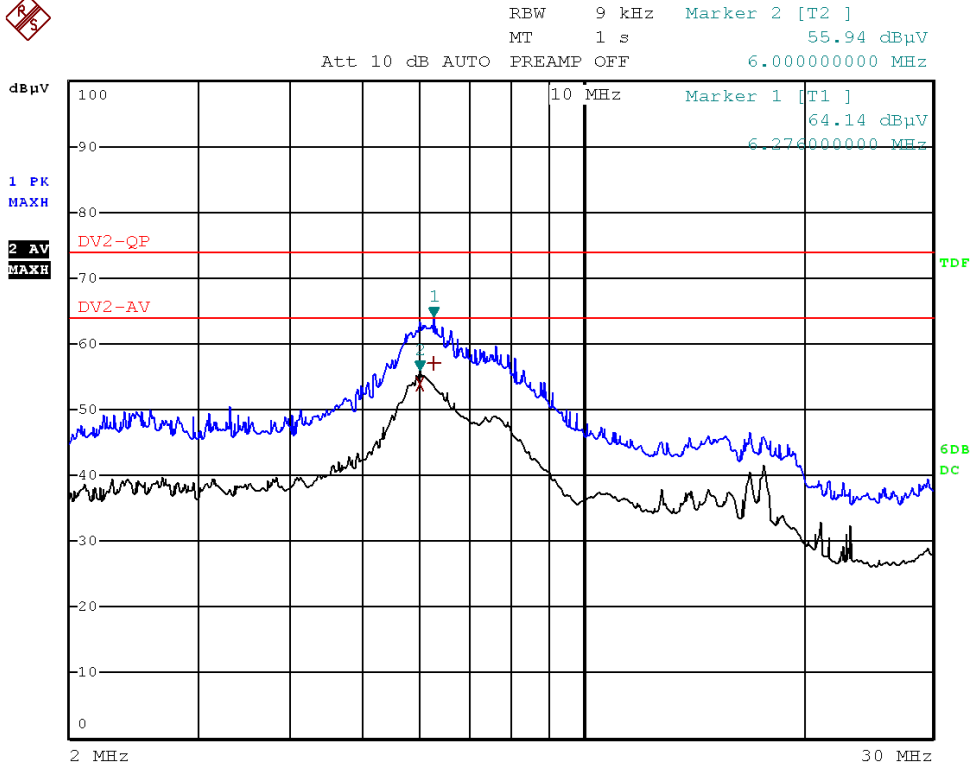


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	5.988 MHz	50.76	-13.23
1 Quasi Peak	6.188 MHz	56.37	-17.62



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COOL-IN-PE



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6 MHz	54.02	-9.97
1 Quasi Peak	6.276 MHz	57.18	-16.81

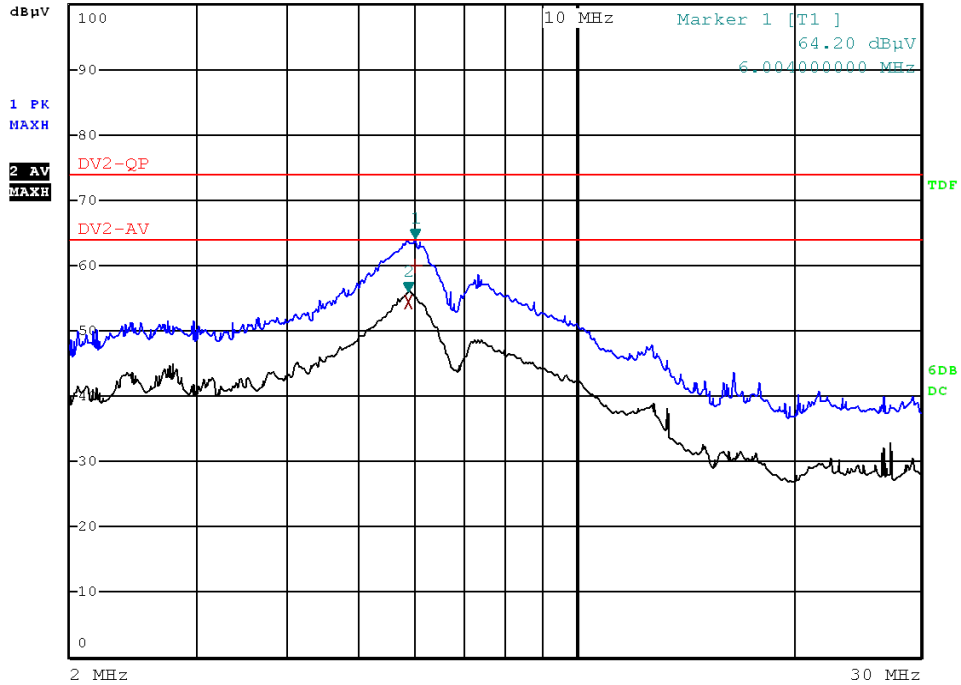


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MSAFBU-12HRDNX-QRD0FGW
COOL-IN-1L



RBW 9 kHz Marker 2 [T2]
MT 1 s 56.10 dBμV
Att 10 dB AUTO PREAMP OFF 5.876000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.876 MHz	54.05	-9.64
1 Quasi Peak	6.004 MHz	59.05	-14.14

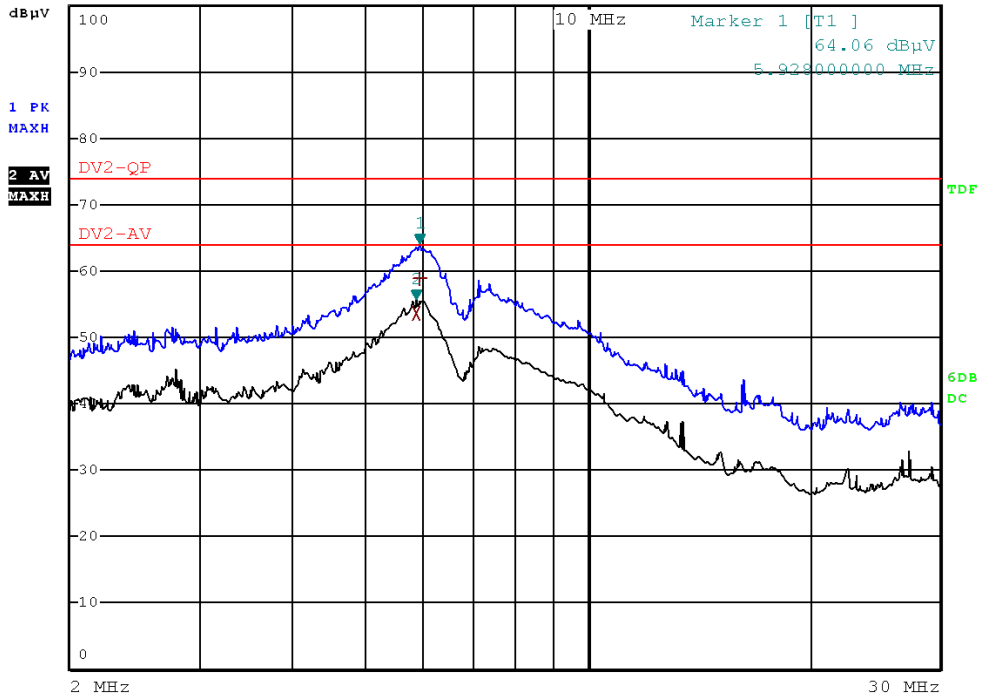


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
MT 1 s 55.67 dBμV
Att 10 dB AUTO PREAMP OFF 5.860000000 MHz

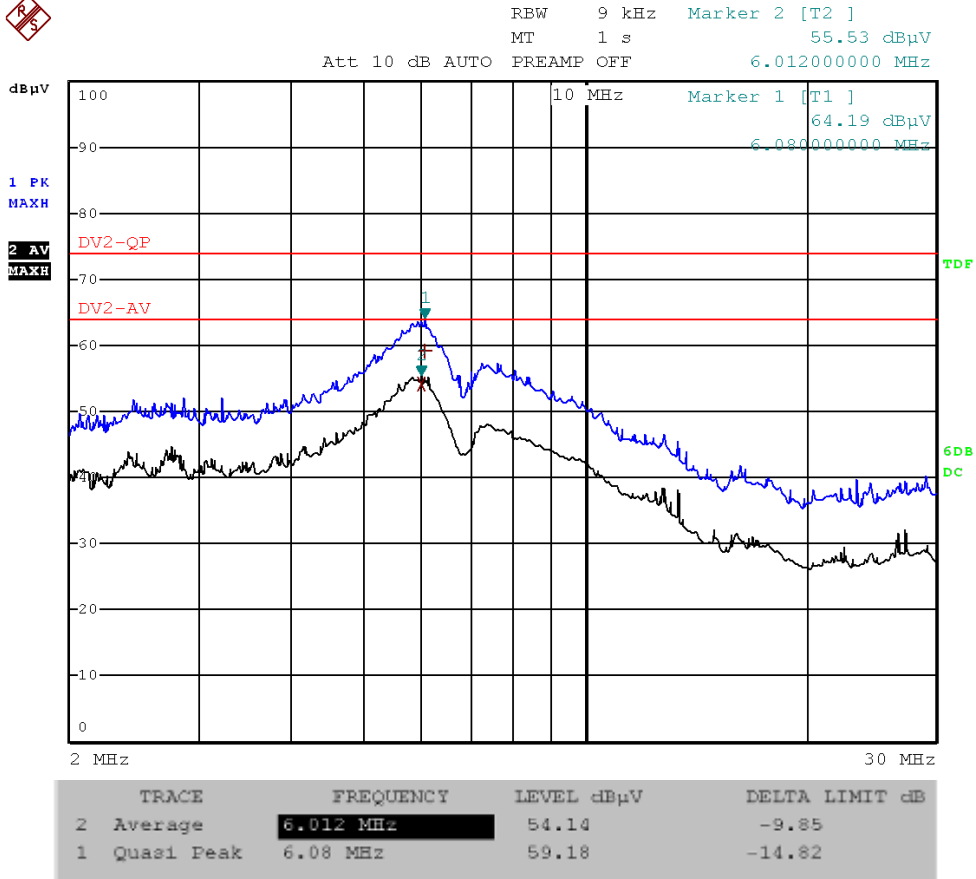


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.86 MHz	53.63	-10.36
1 Quasi Peak	5.928 MHz	59.02	-14.97



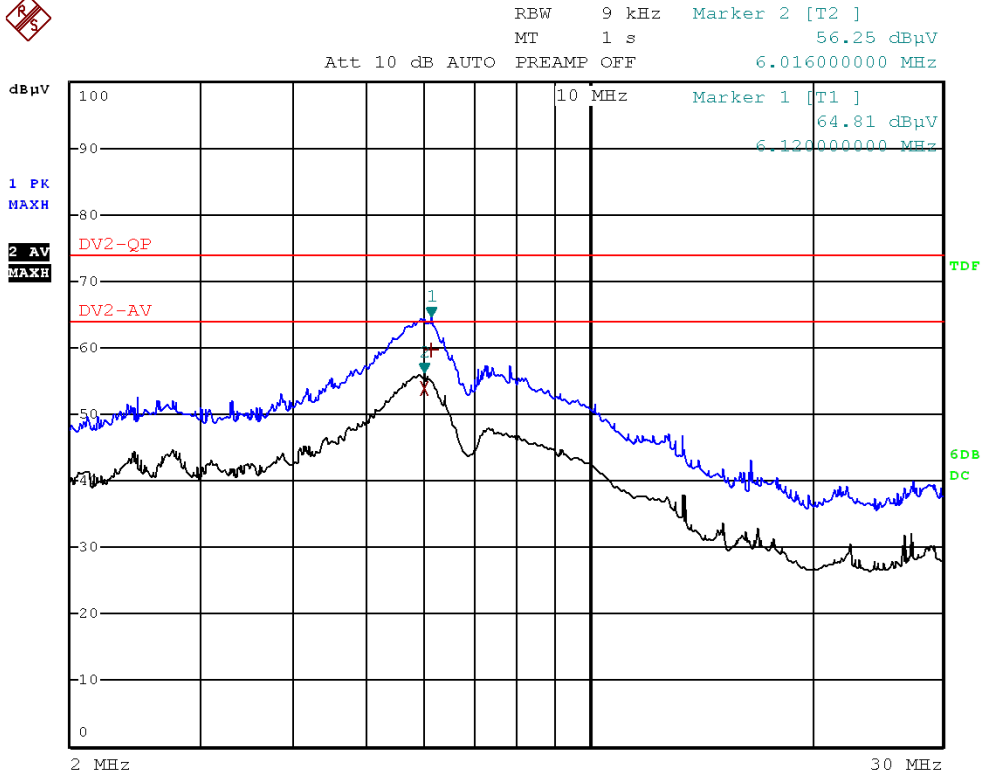
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COOL-IN-S



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COOL-IN-PE



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.016 MHz	53.90	-10.09
1 Quasi Peak	6.12 MHz	59.75	-14.24

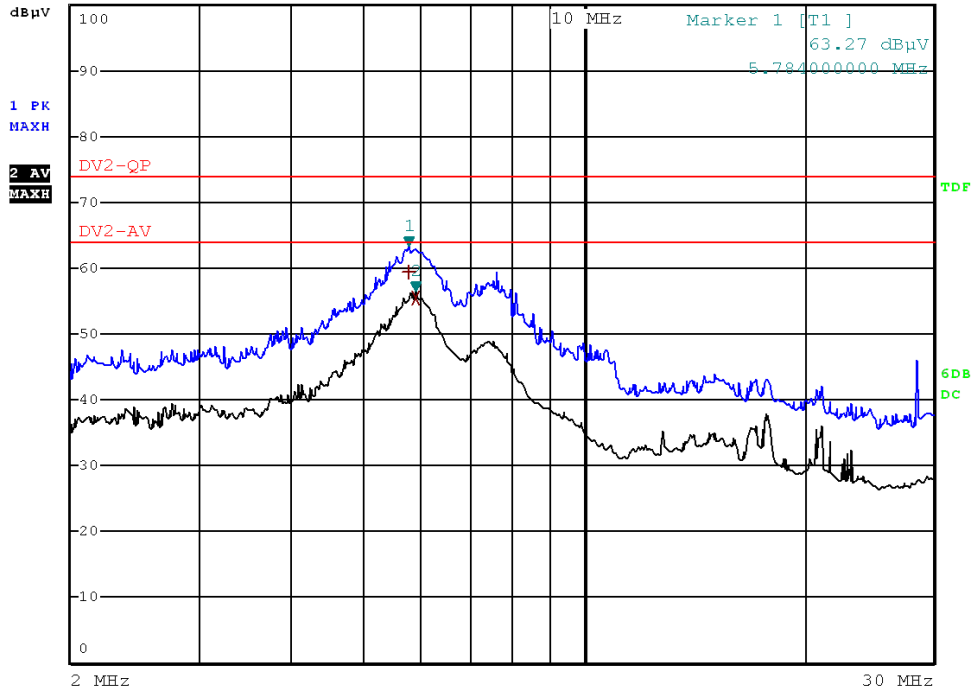


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MSABBU-12HRFNX-QRD0GW
COOL-IN-1L



RBW 9 kHz Marker 2 [T2]
MT 1 s 56.65 dBμV
Att 10 dB AUTO PREAMP OFF 5.89200000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.892 MHz	55.57	-8.42
1 Quasi Peak	5.784 MHz	59.38	-14.61

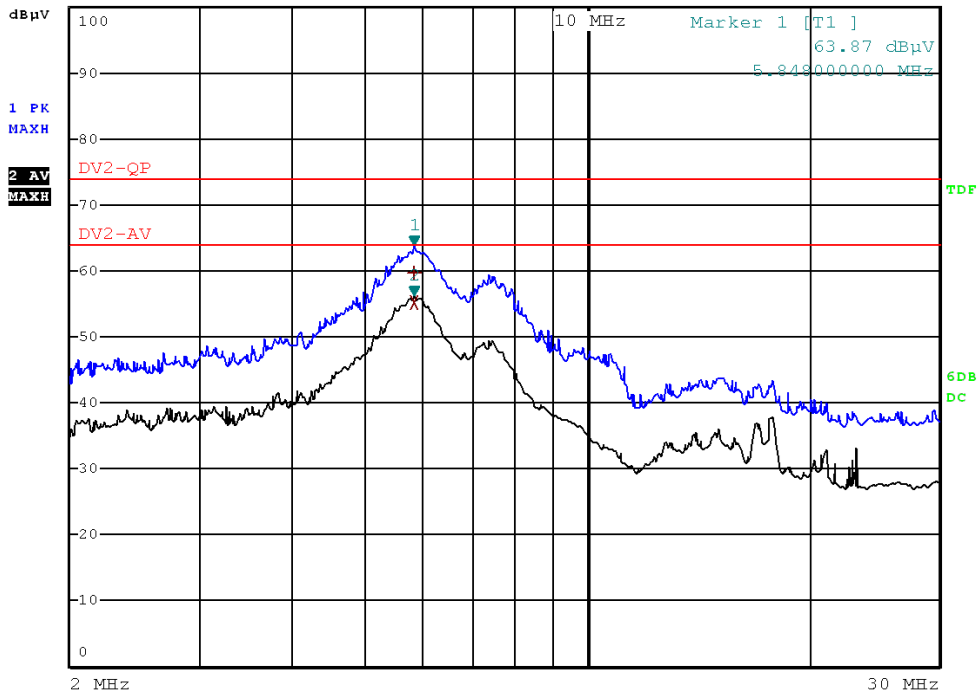


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
MT 1 s 56.17 dBμV
Att 10 dB AUTO PREAMP OFF 5.848000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.848 MHz	55.31	-8.68
1 Quasi Peak	5.848 MHz	59.63	-14.36

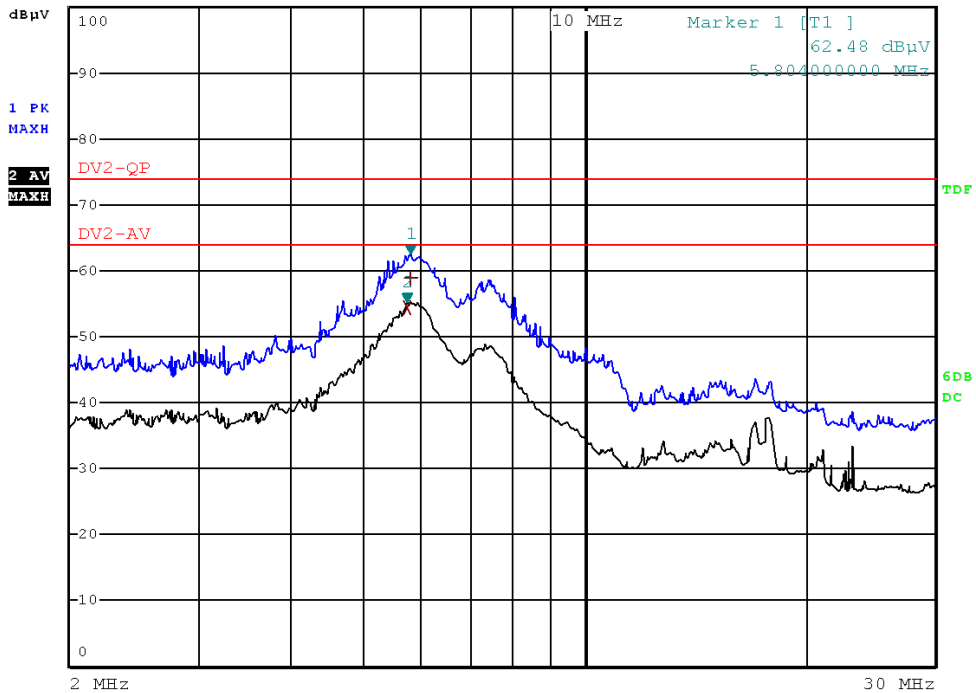


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COOL-IN-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 55.33 dBμV
 Att 10 dB AUTO PREAMP OFF 5.76000000 MHz

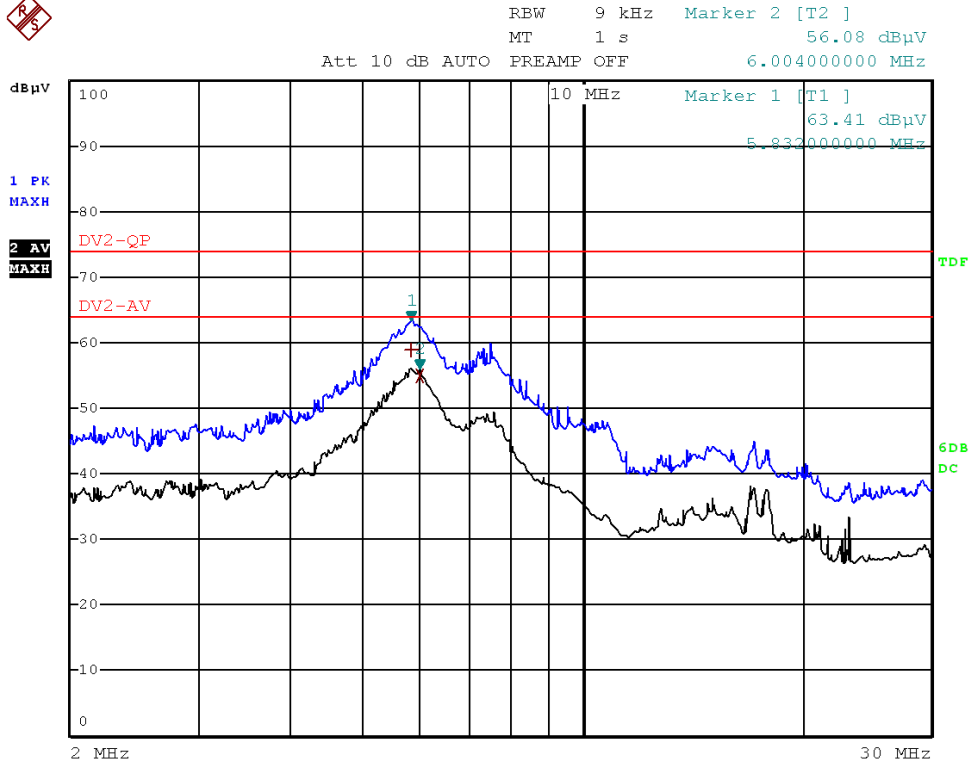


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.76 MHz	54.40	-9.59
1 Quasi Peak	5.804 MHz	58.97	-15.02



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COOL-IN-PE



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.004 MHz	55.07	-8.92
1 Quasi Peak	5.832 MHz	50.99	-15.00

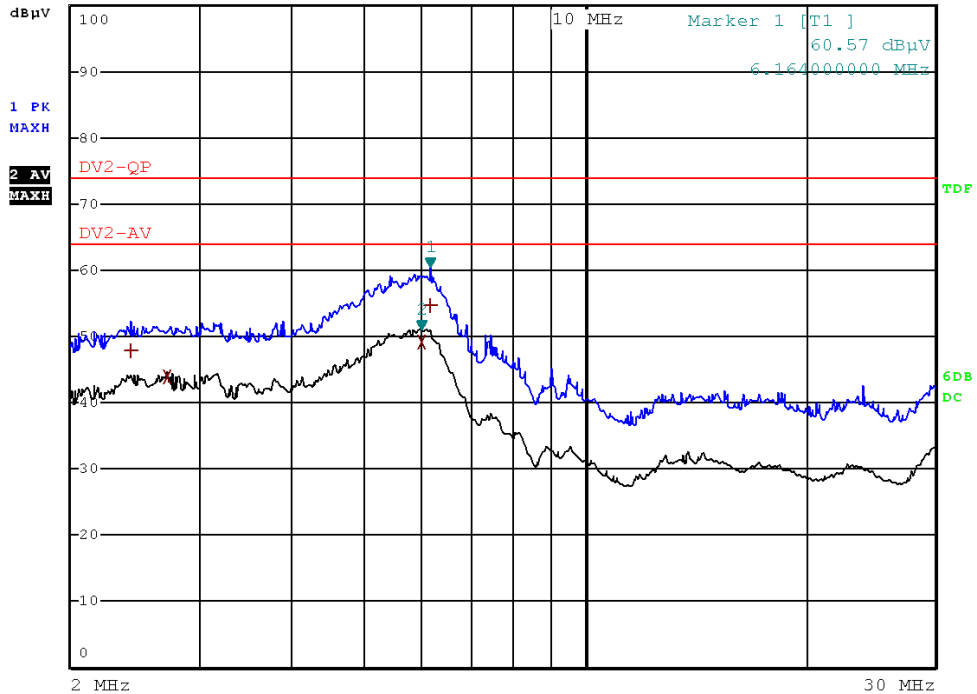


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MSABBU-12HRFNX-QRD0GW
COOL-OUT-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 51.17 dBμV
Att 10 dB AUTO PREAMP OFF 5.988000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.988 MHz	49.26	-14.74
1 Quasi Peak	6.164 MHz	54.64	-19.35
2 Average	2.708 MHz	44.03	-19.97
1 Quasi Peak	2.412 MHz	47.95	-26.04

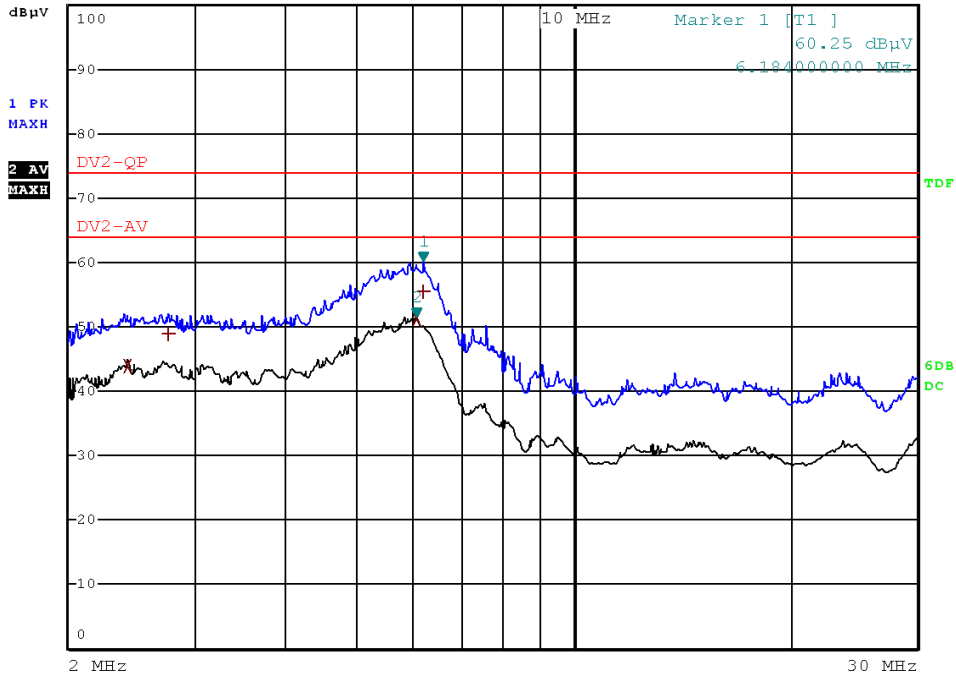


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 51.64 dBμV
 Att 10 dB AUTO PREAMP OFF 6.072000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.072 MHz	51.21	-12.78
1 Quasi Peak	6.184 MHz	55.53	-18.46
2 Average	2.416 MHz	43.95	-20.04
1 Quasi Peak	2.752 MHz	49.88	-25.11

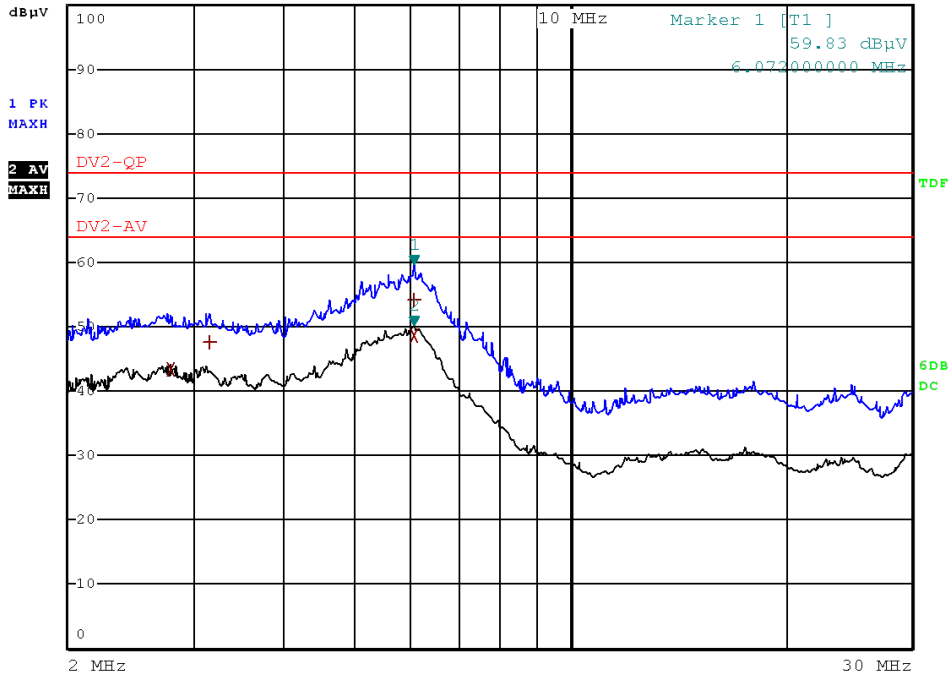


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 50.17 dBµV
 Att 10 dB AUTO PREAMP OFF 6.072000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.072 MHz	48.67	-15.33
1 Quasi Peak	6.072 MHz	54.23	-19.76
2 Average	2.78 MHz	43.31	-20.68
1 Quasi Peak	3.14 MHz	47.60	-26.39

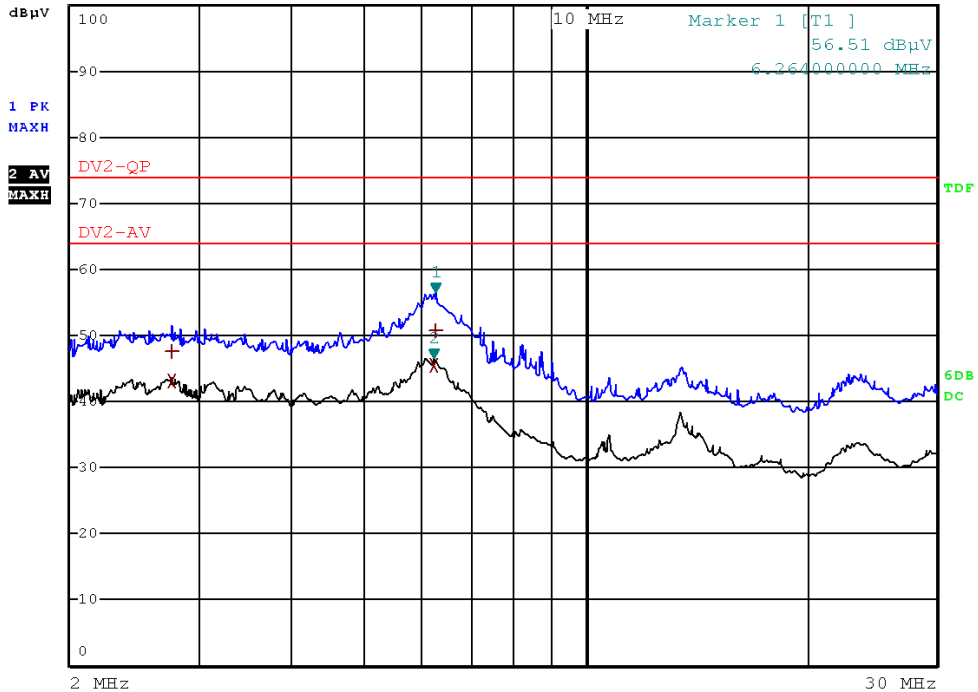


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MSABBU-12HRFN8-QRD6GW
COOL-OUT-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 46.61 dBμV
Att 10 dB AUTO PREAMP OFF 6.22000000 MHz

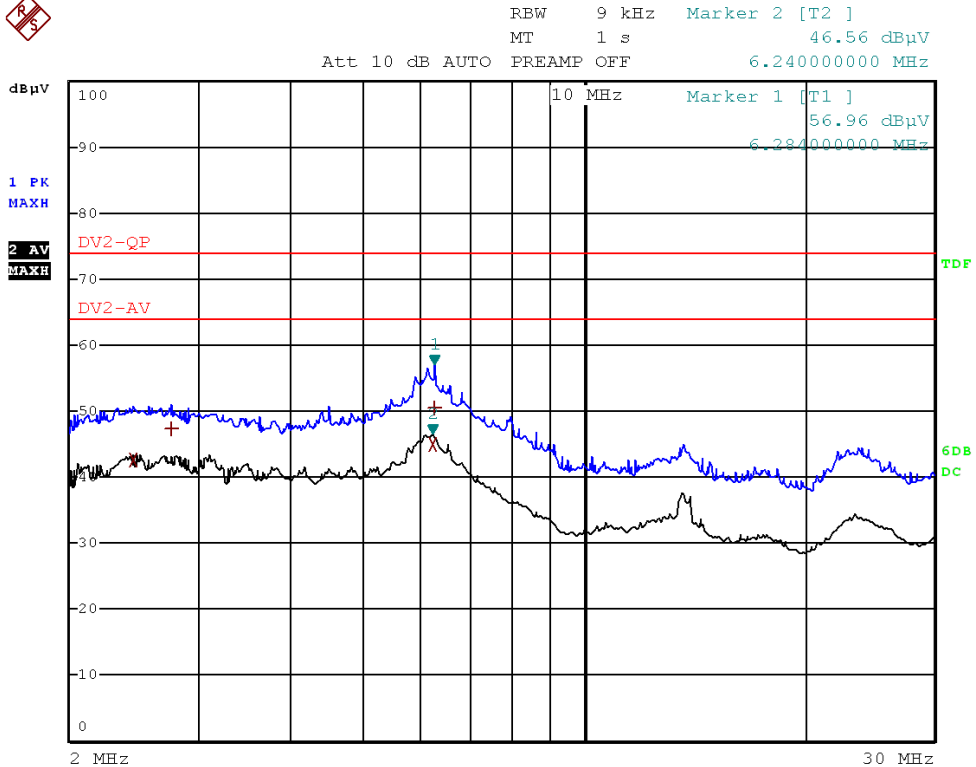


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.22 MHz	45.41	-18.58
2 Average	2.756 MHz	43.05	-20.94
1 Quasi Peak	6.264 MHz	50.85	-23.14
1 Quasi Peak	2.752 MHz	47.74	-26.25



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COOL-OUT-N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.24 MHz	44.94	-19.05
2 Average	2.436 MHz	42.68	-21.31
1 Quasi Peak	6.284 MHz	50.52	-23.47
1 Quasi Peak	2.756 MHz	47.25	-26.74

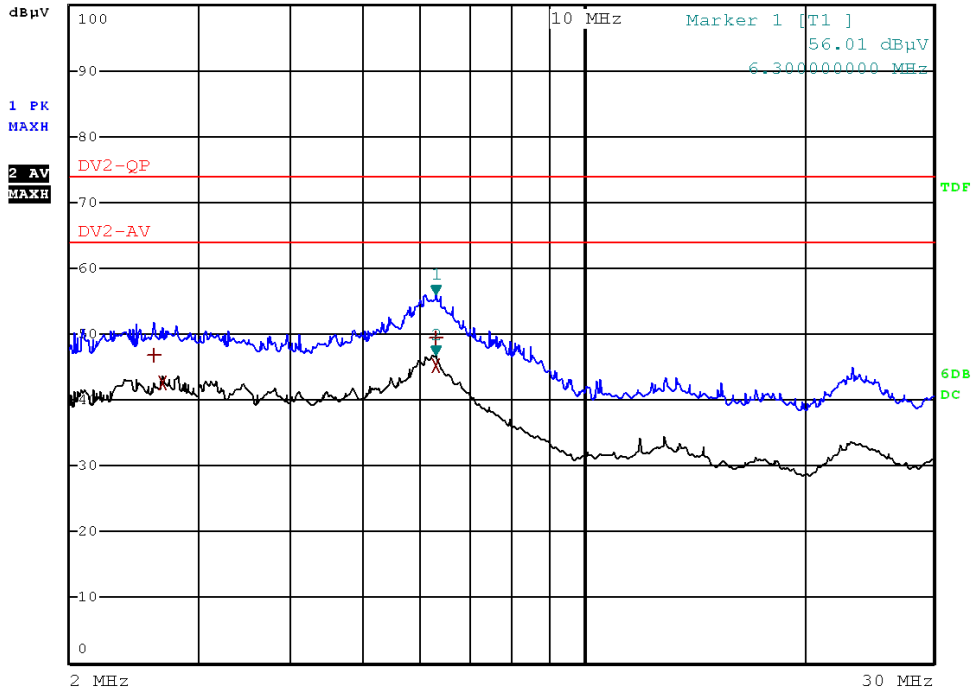


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 46.86 dBµV
 Att 10 dB AUTO PREAMP OFF 6.308000000 MHz

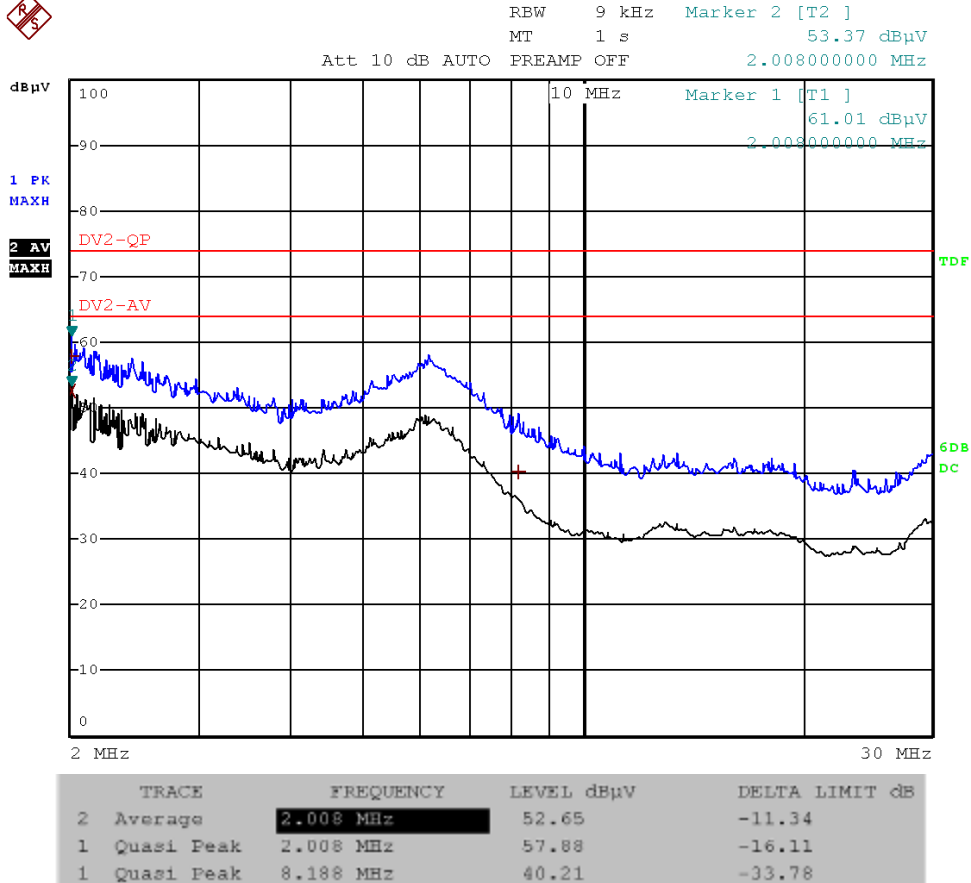


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.308 MHz	45.33	-18.67
2 Average	2.68 MHz	42.62	-21.37
1 Quasi Peak	6.3 MHz	49.45	-24.54
1 Quasi Peak	2.608 MHz	46.75	-27.24



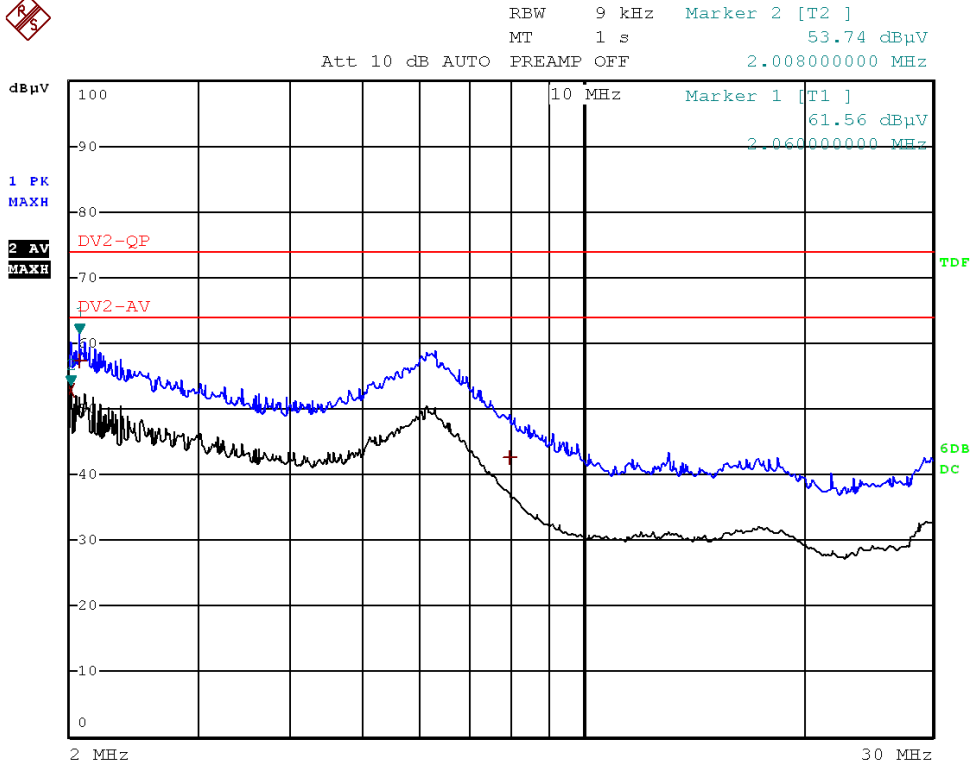
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MSAGBU-12HRFNX-QRD0GW
COOL-OUT-L



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COOL-OUT-N



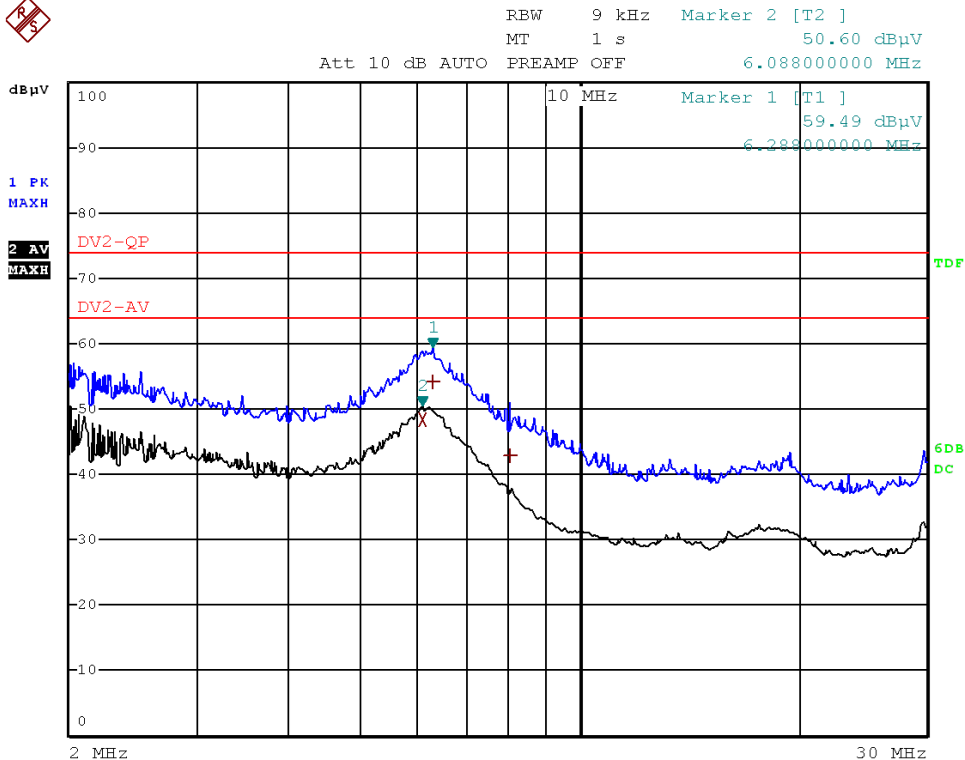
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	2.008 MHz	52.85	-11.14
1 Quasi Peak	2.06 MHz	57.39	-16.61
1 Quasi Peak	7.972 MHz	42.56	-31.44



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COOL-OUT-S



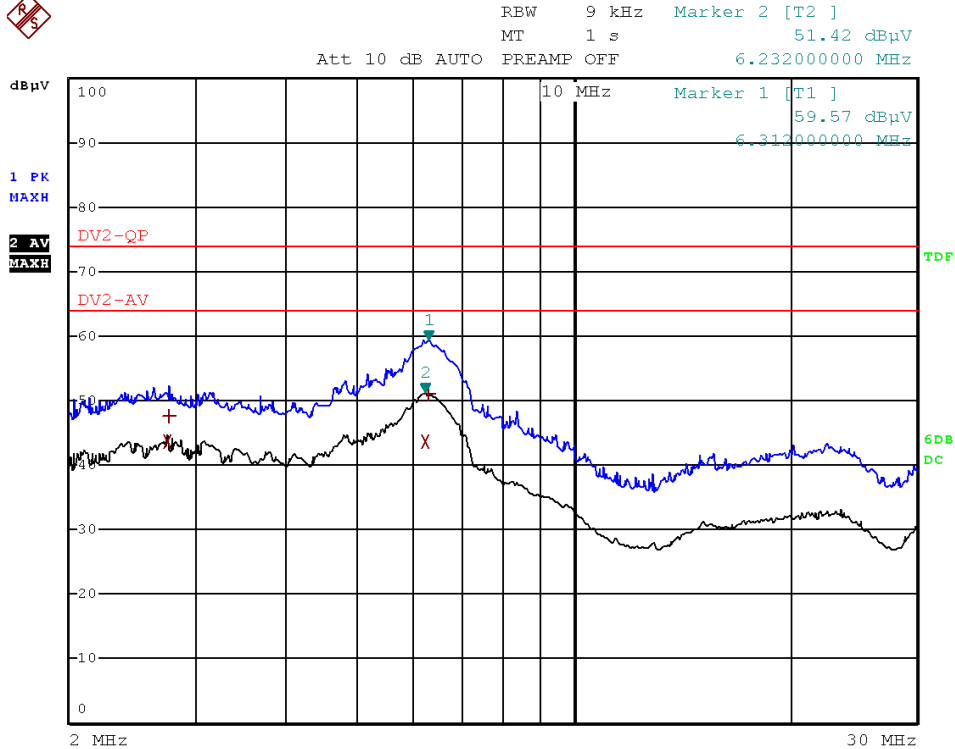
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.088 MHz	48.35	-15.65
1 Quasi Peak	6.288 MHz	54.29	-19.70
1 Quasi Peak	8.028 MHz	42.99	-31.01



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MSAFBU-12HRDNX-QRD0FGW
COOL-OUT-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.232 MHz	43.74	-20.25
2 Average	2.728 MHz	43.61	-20.38
1 Quasi Peak	6.312 MHz	51.17	-22.82
1 Quasi Peak	2.748 MHz	47.51	-26.49

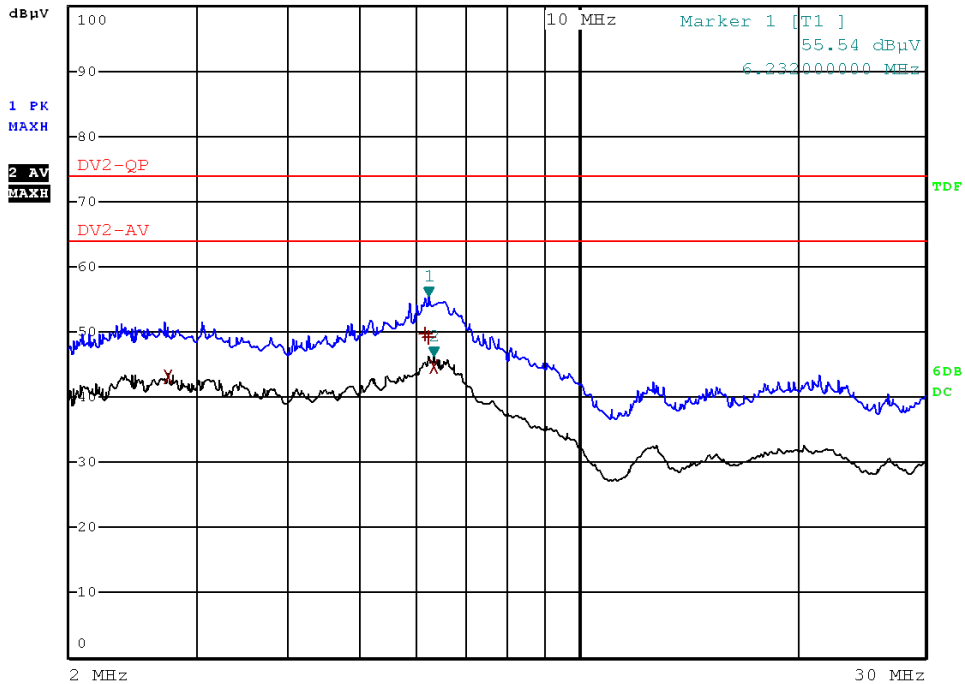


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 46.34 dBμV
 Att 10 dB AUTO PREAMP OFF 6.336000000 MHz

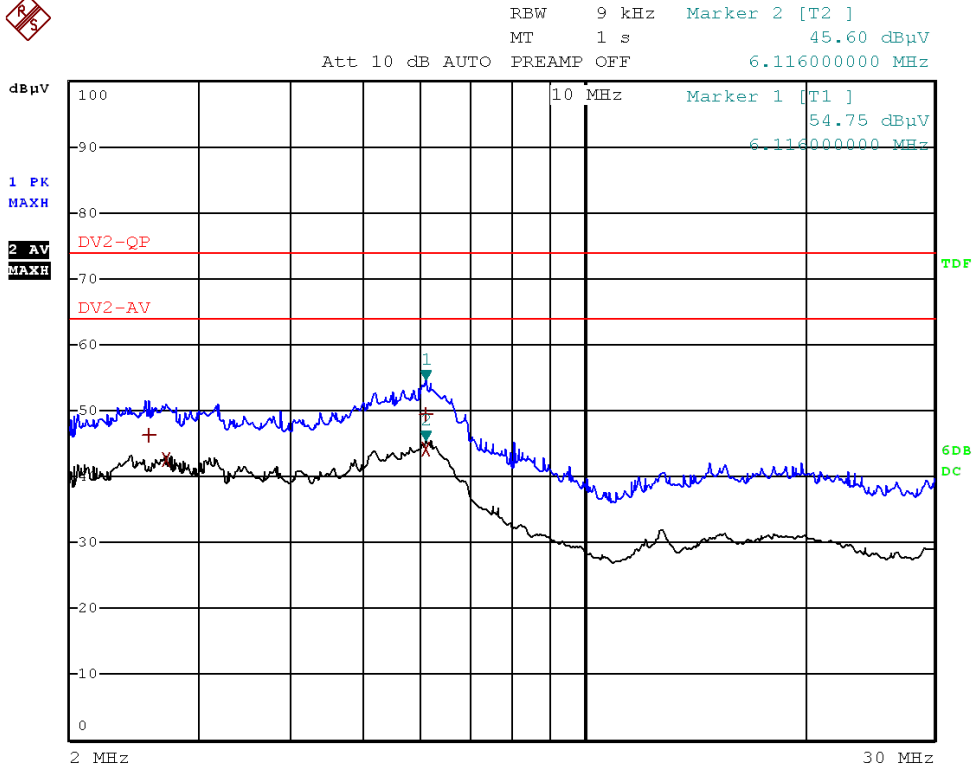


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.336 MHz	44.62	-19.37
2 Average	2.728 MHz	43.18	-20.81
1 Quasi Peak	6.164 MHz	49.85	-24.14
1 Quasi Peak	6.232 MHz	49.21	-24.78



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COOL-OUT-S



TRACE	FREQUENCY	LEVEL, dBμV	DELTA LIMIT, dB
2 Average	6.116 MHz	44.32	-19.67
2 Average	2.708 MHz	42.52	-21.48
1 Quasi Peak	6.116 MHz	49.57	-24.42
1 Quasi Peak	2.56 MHz	46.37	-27.62

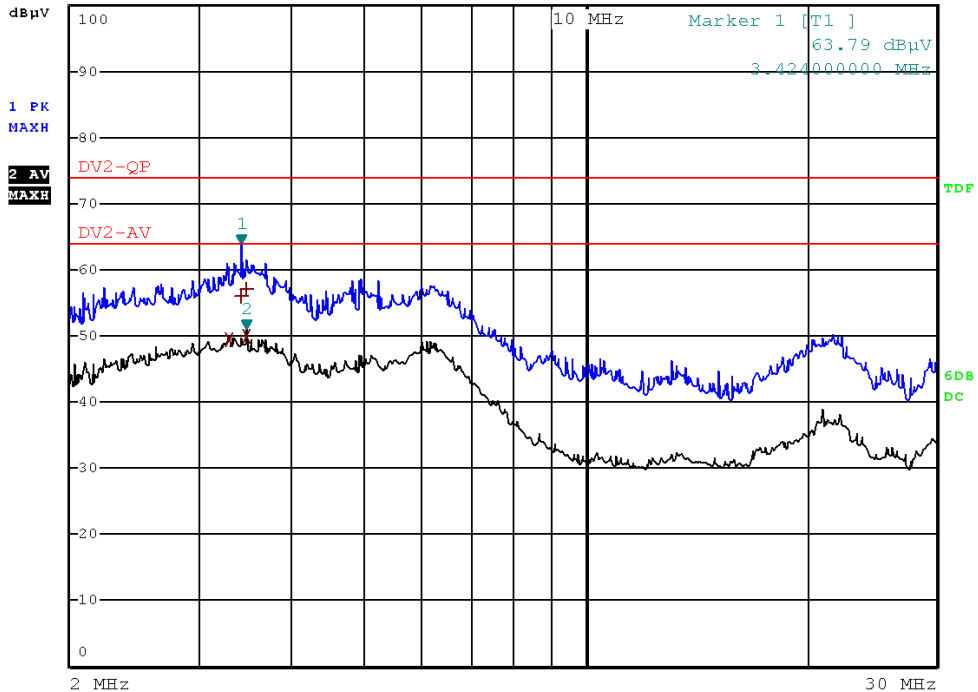


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MSEPCU-18HRFN8-QRD0GW
COOL-OUT-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 51.02 dBμV
Att 10 dB AUTO PREAMP OFF 3.476000000 MHz

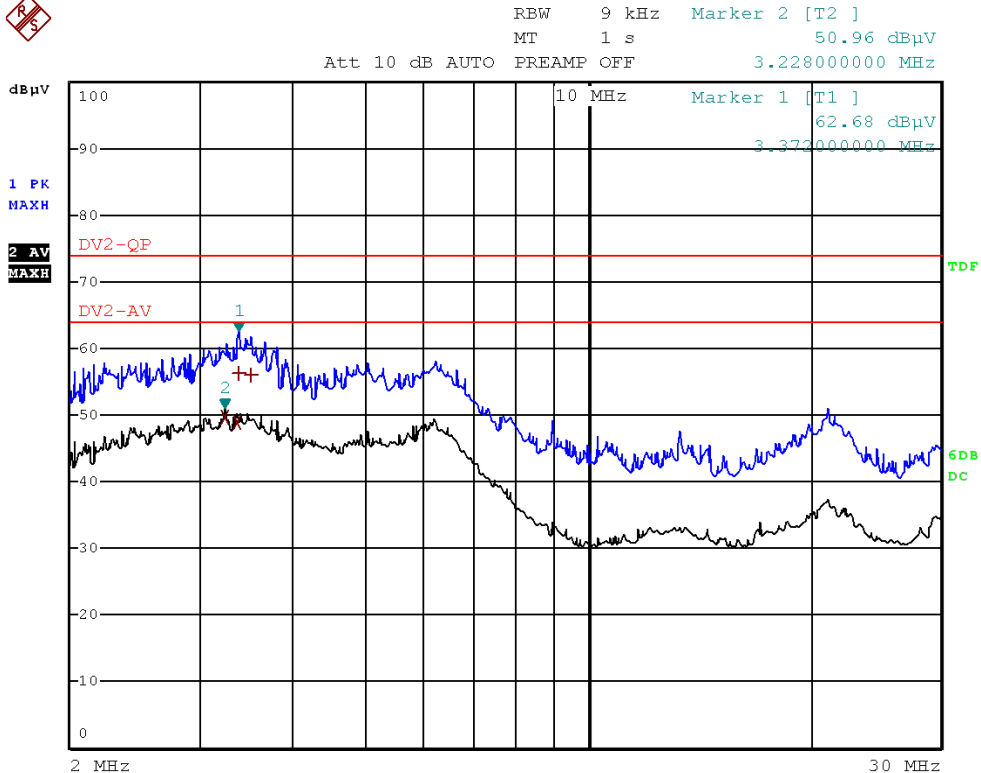


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	3.476 MHz	50.10	-13.89
2 Average	3.28 MHz	49.36	-14.63
1 Quasi Peak	3.476 MHz	57.16	-16.83
1 Quasi Peak	3.424 MHz	56.01	-17.98



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COOL-OUT-N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	3.228 MHz	49.62	-14.37
2 Average	3.352 MHz	48.89	-15.10
1 Quasi Peak	3.372 MHz	56.24	-17.75
1 Quasi Peak	3.512 MHz	55.98	-18.01

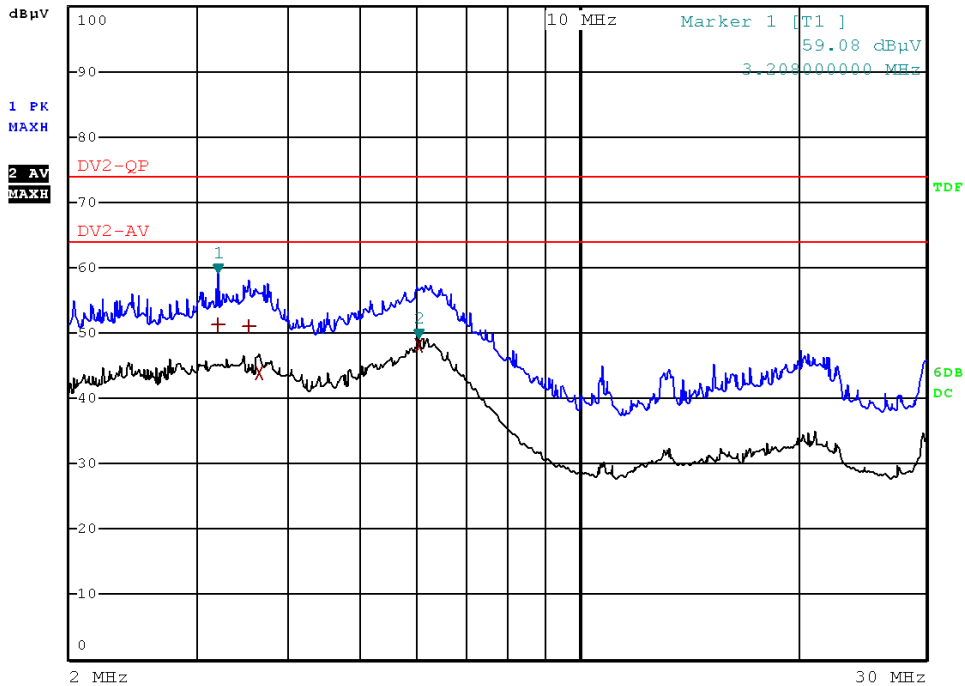


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 49.21 dBµV
 Att 10 dB AUTO PREAMP OFF 6.028000000 MHz

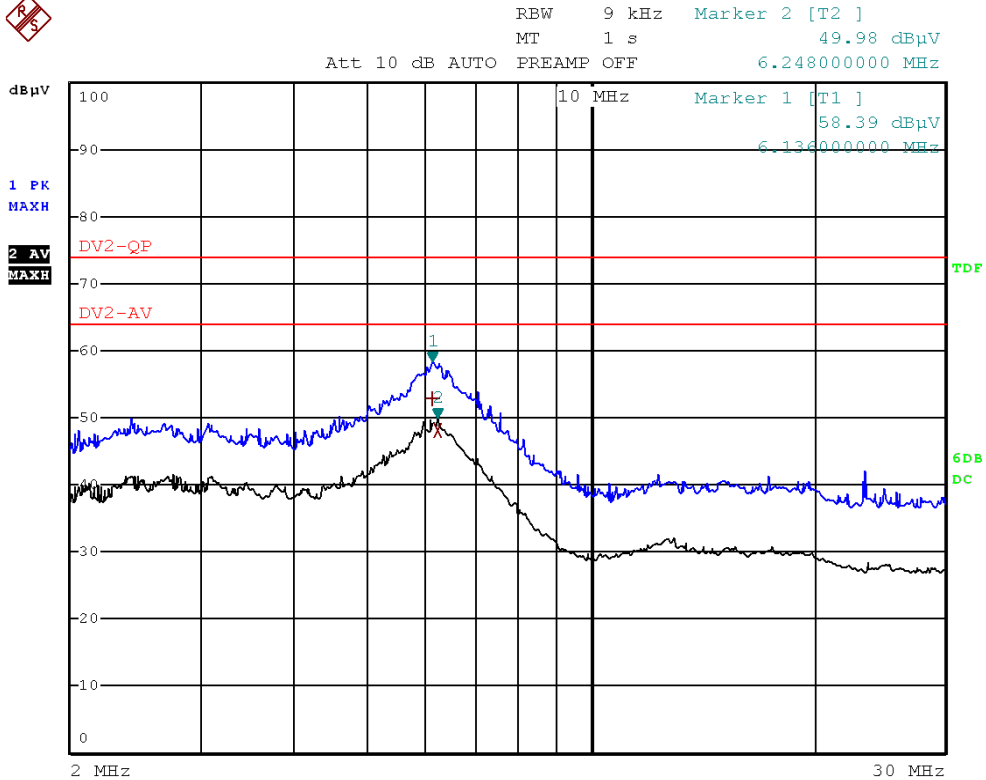


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.028 MHz	48.15	-15.84
2 Average	3.652 MHz	43.92	-20.07
1 Quasi Peak	3.208 MHz	51.26	-22.73
1 Quasi Peak	3.528 MHz	51.12	-22.88



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COOL-OUT-PE

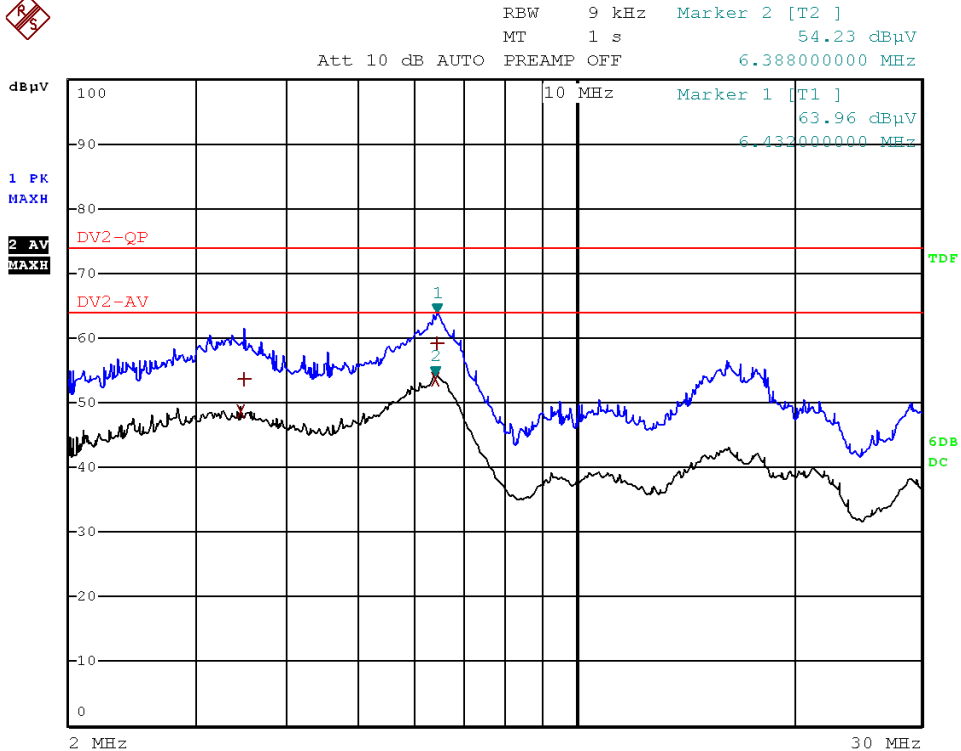


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.248 MHz	49.14	-15.85
1 Quasi Peak	6.136 MHz	58.92	-21.07



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For Model B
MSEPBU-12HRFN8-QRD6GW
COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.388 MHz	53.76	-10.24
1 Quasi Peak	6.402 MHz	59.19	-14.80
2 Average	3.452 MHz	48.76	-15.23
1 Quasi Peak	3.492 MHz	53.75	-20.24

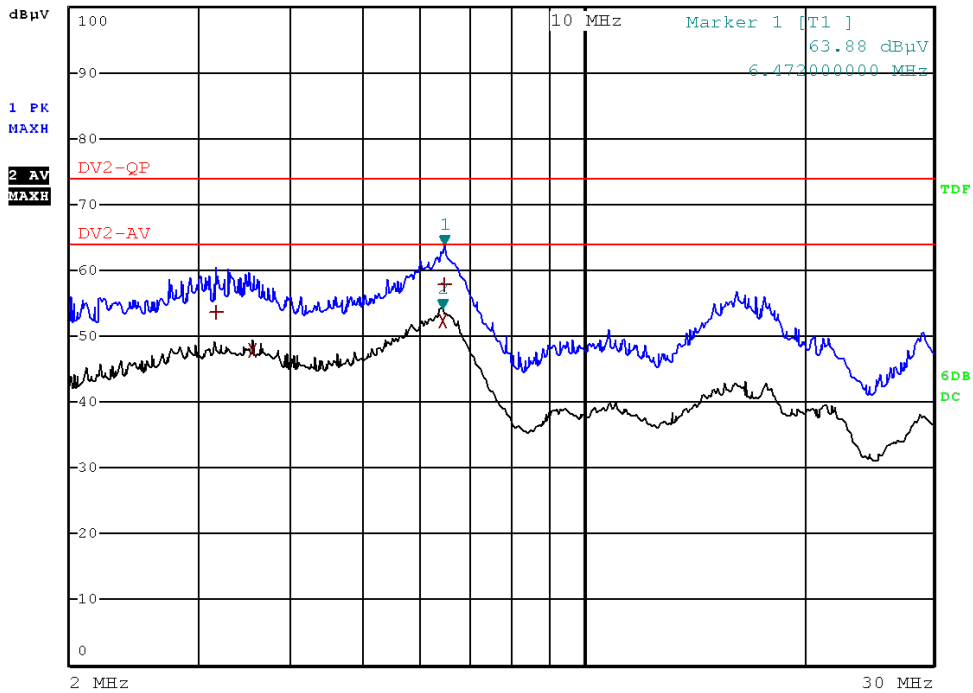


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
MT 1 s 54.30 dBµV
Att 10 dB AUTO PREAMP OFF 6.452000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.452 MHz	52.37	-11.62
1 Quasi Peak	6.472 MHz	57.81	-16.18
2 Average	3.544 MHz	47.79	-16.21
1 Quasi Peak	3.164 MHz	53.58	-20.41

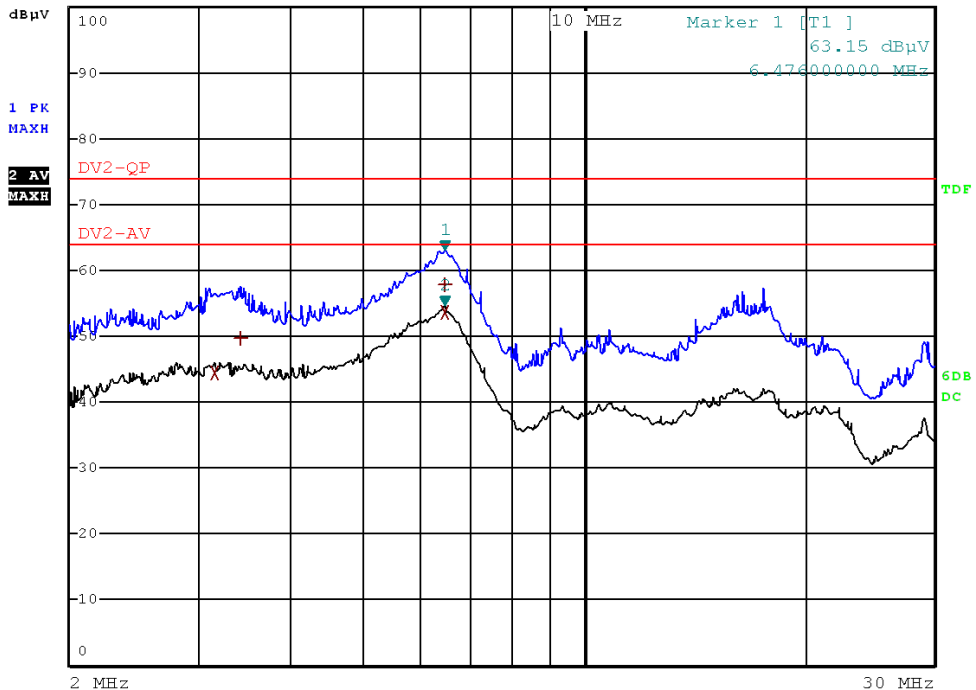


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COOL-IN-S



RBW 9 kHz Marker 2 [T2]
MT 1 s 54.83 dBµV
Att 10 dB AUTO PREAMP OFF 6.46000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.46 MHz	53.62	-10.37
1 Quasi Peak	6.476 MHz	57.93	-16.06
2 Average	3.156 MHz	44.49	-19.50
1 Quasi Peak	3.416 MHz	49.82	-24.17

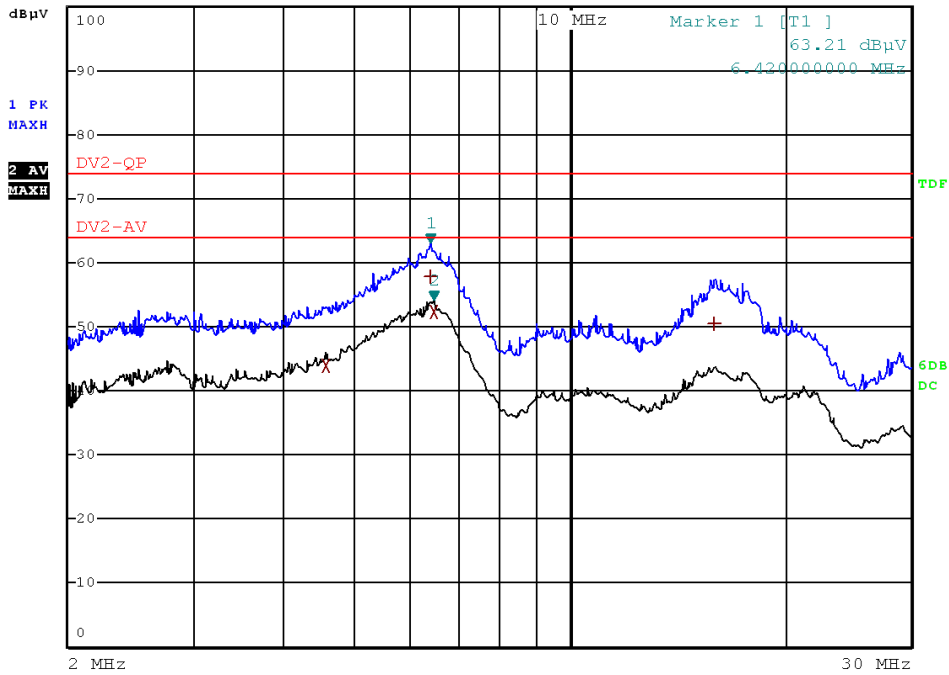


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COOL-IN-PE



RBW 9 kHz Marker 2 [T2]
MT 1 s 54.19 dBμV
Att 10 dB AUTO PREAMP OFF 6.468000000 MHz

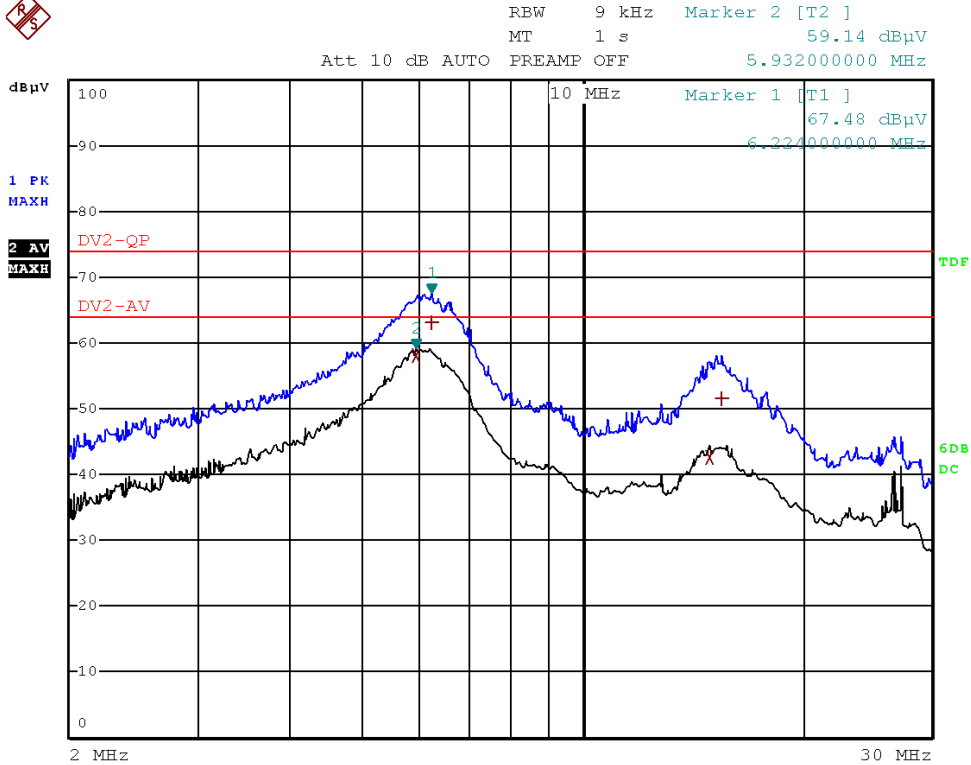


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.468 MHz	52.44	-11.55
1 Quasi Peak	6.42 MHz	57.94	-16.05
2 Average	4.58 MHz	43.94	-20.05
1 Quasi Peak	15.908 MHz	50.58	-23.41



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MSAEBU-12HRFN8-QRD6GW
COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.932 MHz	58.02	-5.97
1 Quasi Peak	6.224 MHz	63.05	-10.94
2 Average	14.944 MHz	42.76	-21.23
1 Quasi Peak	15.472 MHz	51.57	-22.42

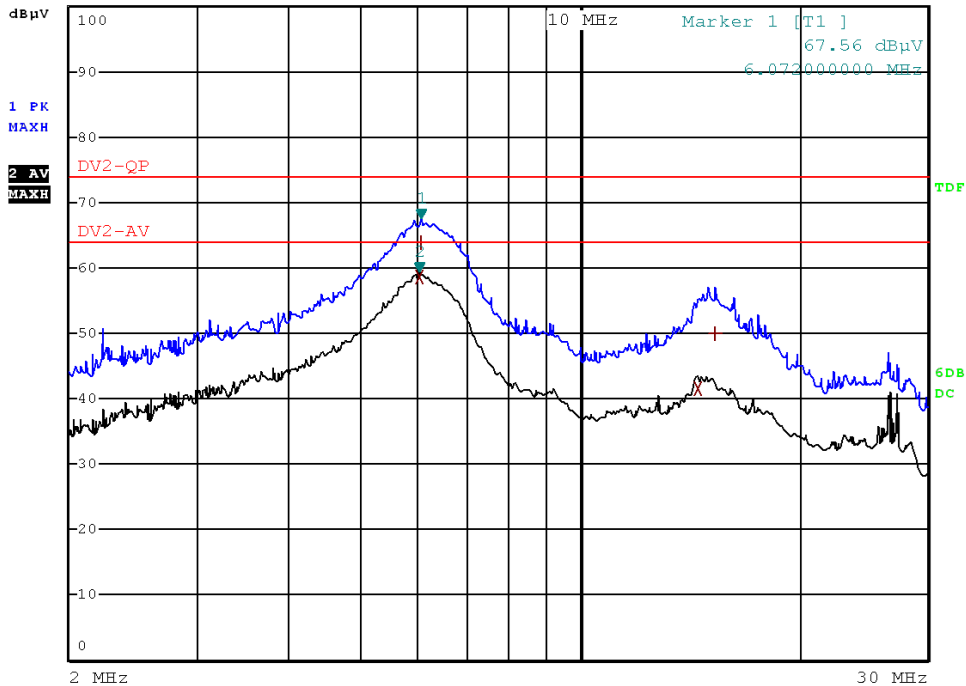


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
MT 1 s 59.35 dBuV
Att 10 dB AUTO PREAMP OFF 6.028000000 MHz



TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
2 Average	6.028 MHz	58.60	-5.39
1 Quasi Peak	6.072 MHz	63.92	-10.07
2 Average	14.552 MHz	41.68	-22.31
1 Quasi Peak	15.284 MHz	50.11	-23.88

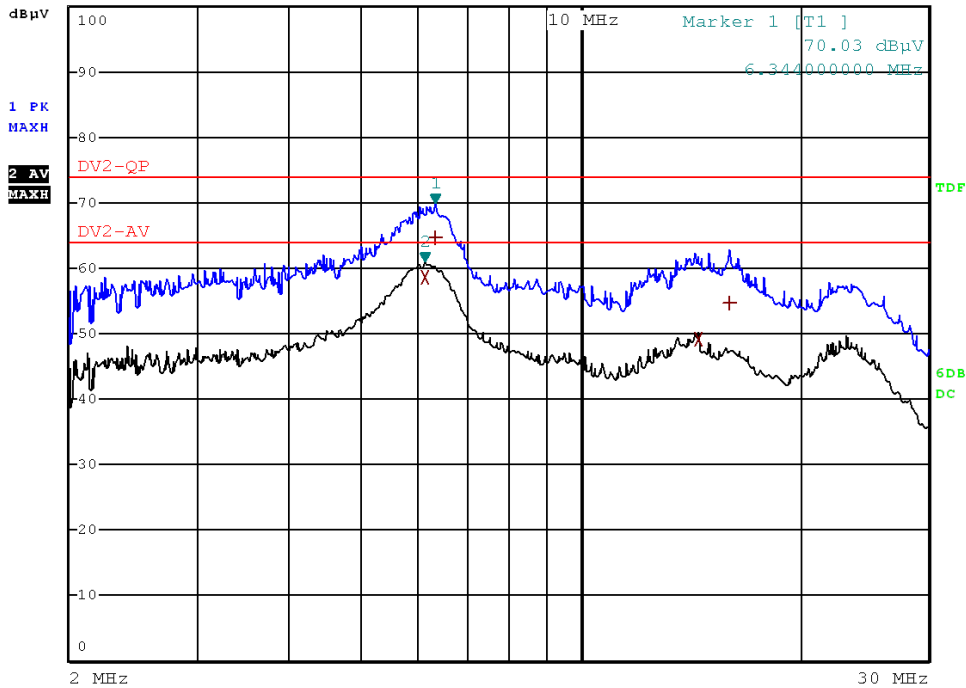


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COOL-IN-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 60.90 dBµV
 Att 10 dB AUTO PREAMP OFF 6.144000000 MHz

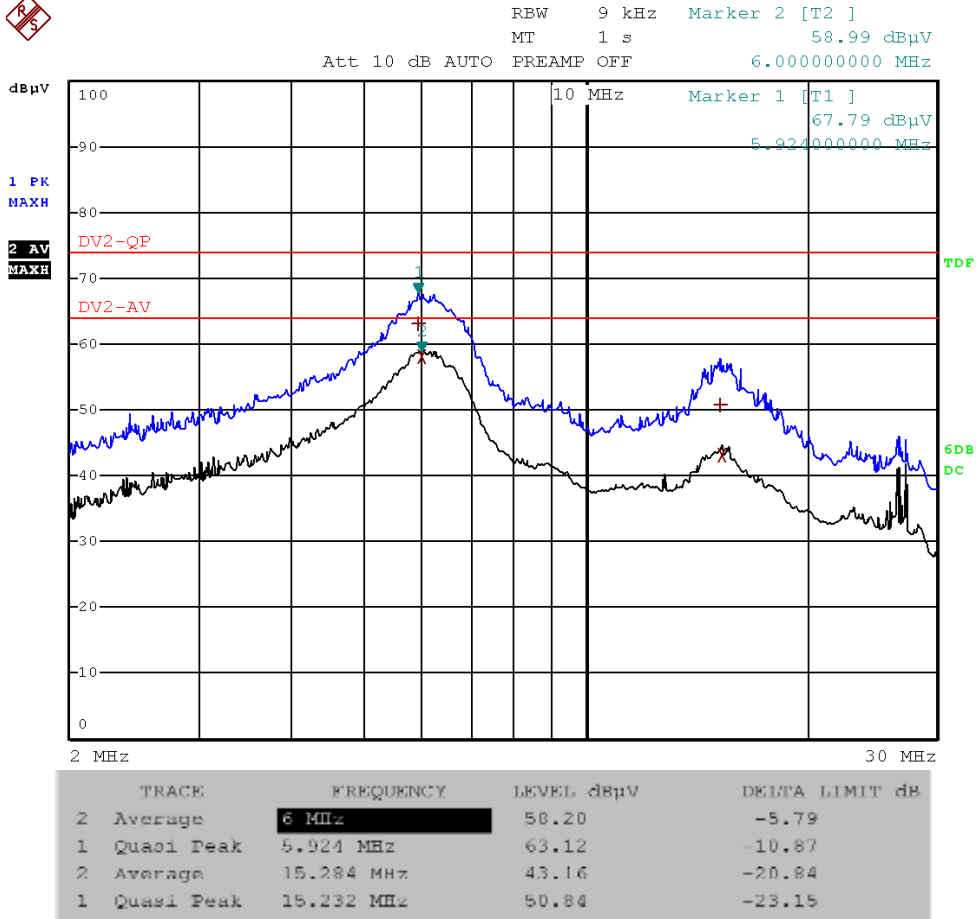


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.144 MHz	58.56	-5.43
1 Quasi Peak	6.344 MHz	64.67	-9.32
2 Average	14.5 MHz	49.15	-14.84
1 Quasi Peak	15.968 MHz	54.77	-19.22



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COOL-IN-PE

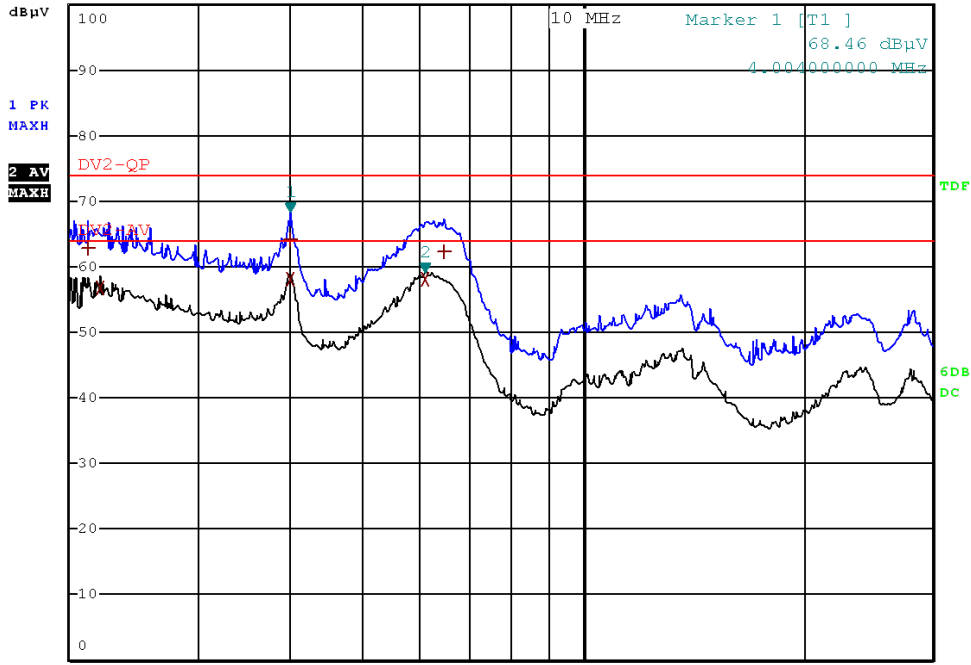


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MTIU-09HWFNX-QRD0W
COOL-IN-1L



RBW 9 kHz Marker 2 [T2]
MT 1 s 59.24 dBµV
Att 20 dB AUTO PREAMP OFF 6.104000000 MHz

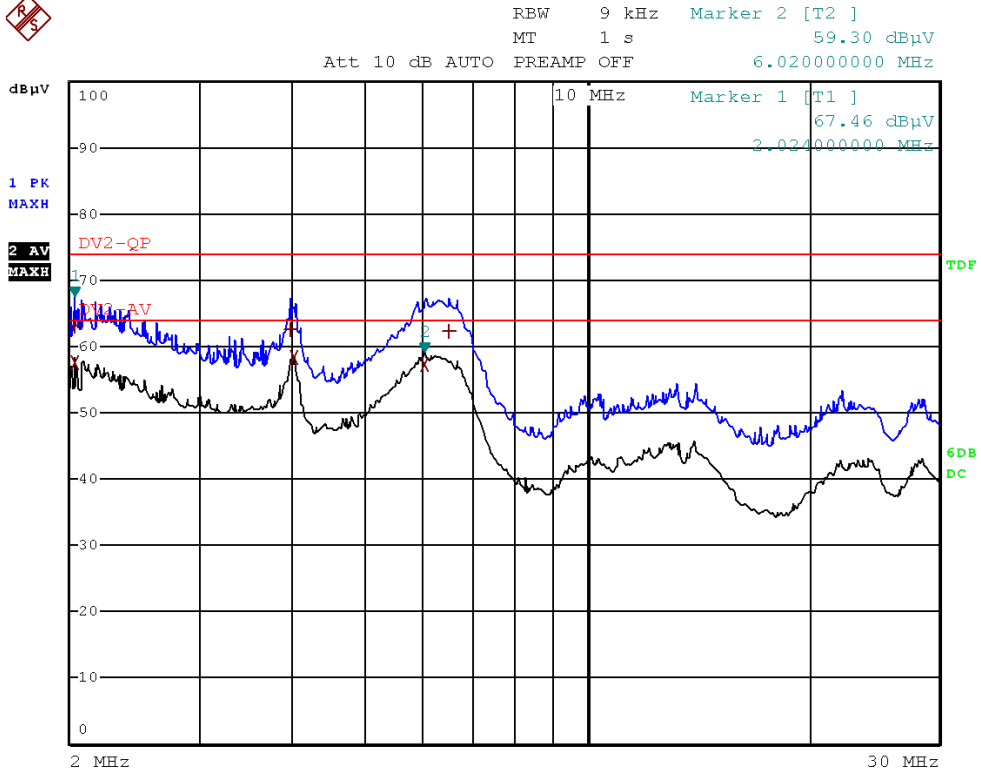


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	3.988 MHz	58.26	-5.73
2 Average	6.104 MHz	58.21	-5.78
2 Average	2.204 MHz	56.84	-7.15
1 Quasi Peak	4.004 MHz	64.12	-9.87
1 Quasi Peak	2.116 MHz	62.94	-11.05
1 Quasi Peak	6.476 MHz	62.31	-11.68



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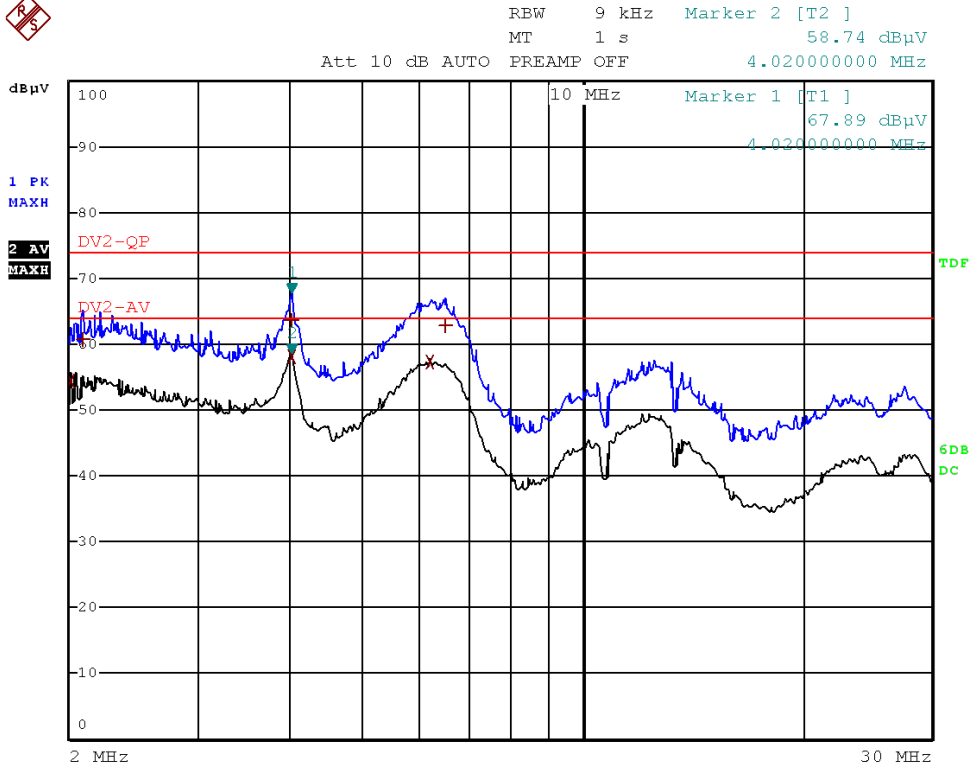
COOL-IN-2N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	4.02 MHz	58.28	-5.71
2 Average	2.024 MHz	57.50	-6.49
2 Average	6.02 MHz	57.47	-6.53
1 Quasi Peak	2.024 MHz	63.18	-10.81
1 Quasi Peak	3.976 MHz	62.53	-11.47
1 Quasi Peak	6.496 MHz	62.23	-11.76



COOL-IN-S



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	4.02 MHz	58.07	-5.92
2 Average	6.2 MHz	57.31	-6.68
2 Average	2.012 MHz	54.51	-9.48
1 Quasi Peak	4.02 MHz	63.65	-10.39
1 Quasi Peak	6.508 MHz	62.80	-11.19
1 Quasi Peak	2.084 MHz	60.78	-13.21

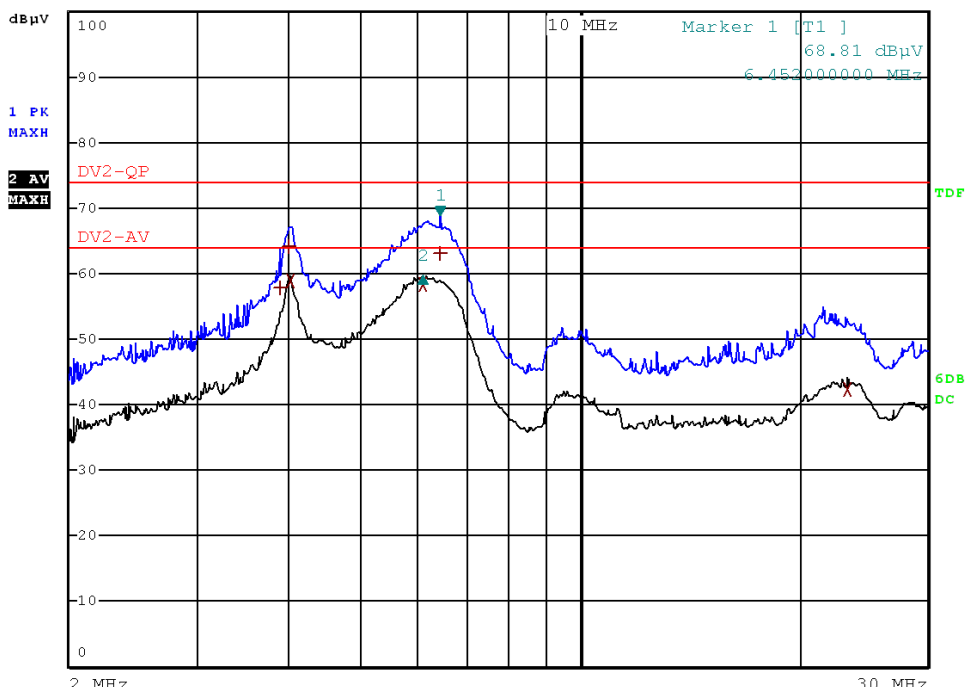


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COOL-IN-PE



RBW 9 kHz Delta 2 [T2]
MT 1 s -9.02 dB
Att 10 dB AUTO PREAMP OFF -364.00000000 kHz



	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2	Average	4.02 MHz	58.81	-5.18
2	Average	6.088 MHz	58.50	-5.49
1	Quasi Peak	4.004 MHz	64.24	-9.75
1	Quasi Peak	6.452 MHz	63.07	-10.93
1	Quasi Peak	3.884 MHz	58.00	-16.00
2	Average	23.232 MHz	42.34	-21.65

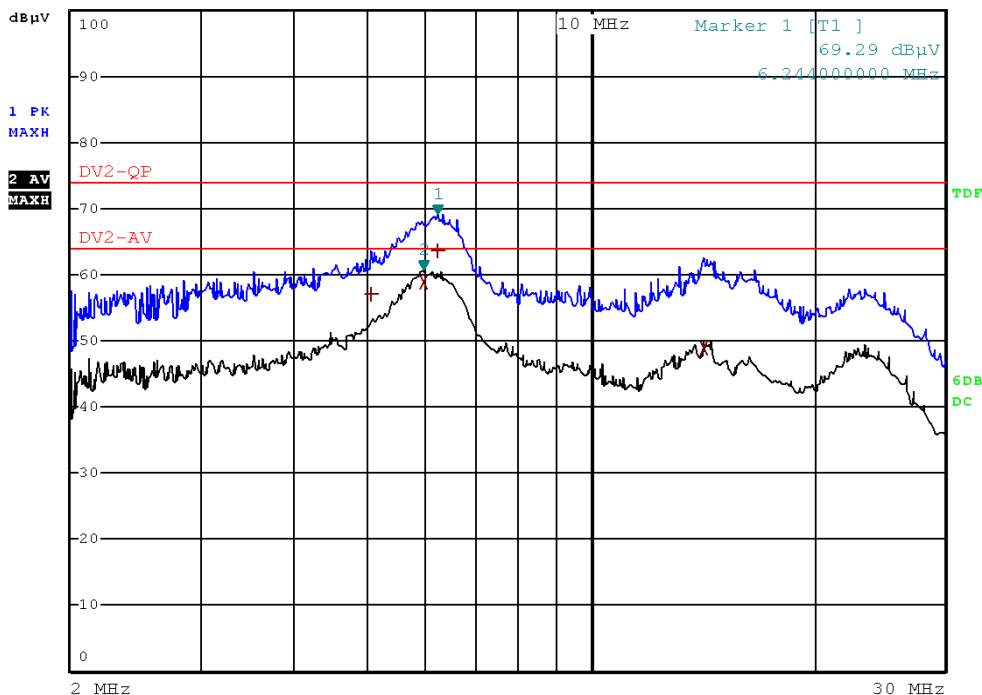


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MCA3U-18HRFNX-QRD0W
COOL-IN-1L



Att 10 dB AUTO PREAMP OFF
RBW 9 kHz Marker 2 [T2]
MT 1 s 60.73 dBμV
5.96800000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	5.968 MHz	50.03	-5.16
1 Quasi Peak	6.244 MHz	60.51	-10.48
2 Average	14.236 MHz	48.88	-15.11
1 Quasi Peak	5.084 MHz	56.96	-17.03

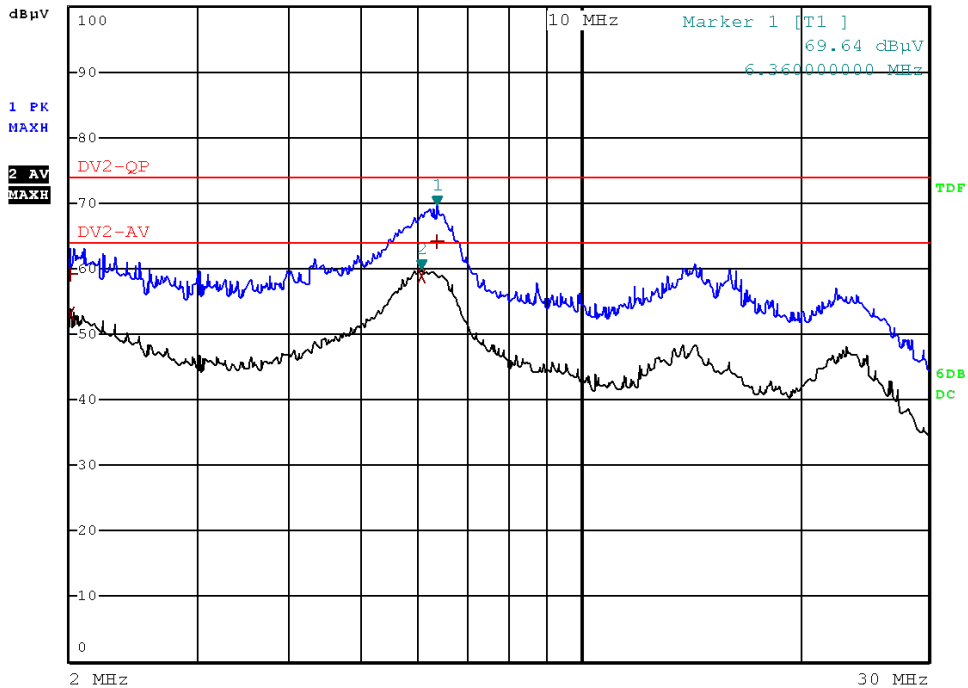


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COOL-IN-2N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 60.01 dBµV
 Att 10 dB AUTO PREAMP OFF 6.056000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.056 MHz	58.88	-5.11
1 Quasi Peak	6.36 MHz	64.27	-9.72
2 Average	2.012 MHz	53.03	-10.96
1 Quasi Peak	2.008 MHz	59.12	-14.88

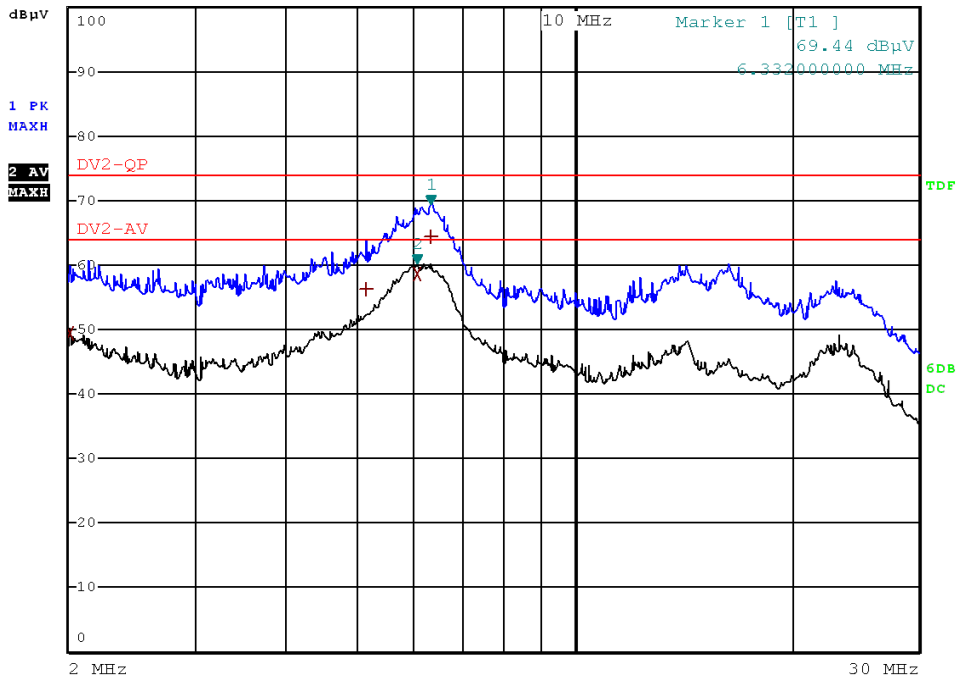


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COOL-IN-S



RBW 9 kHz Marker 2 [T2]
MT 1 s 60.23 dBμV
Att 10 dB AUTO PREAMP OFF 6.056000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.056 MHz	58.58	-5.41
1 Quasi Peak	6.332 MHz	64.46	-9.50
2 Average	2.012 MHz	49.53	-14.46
1 Quasi Peak	5.156 MHz	56.38	-17.62

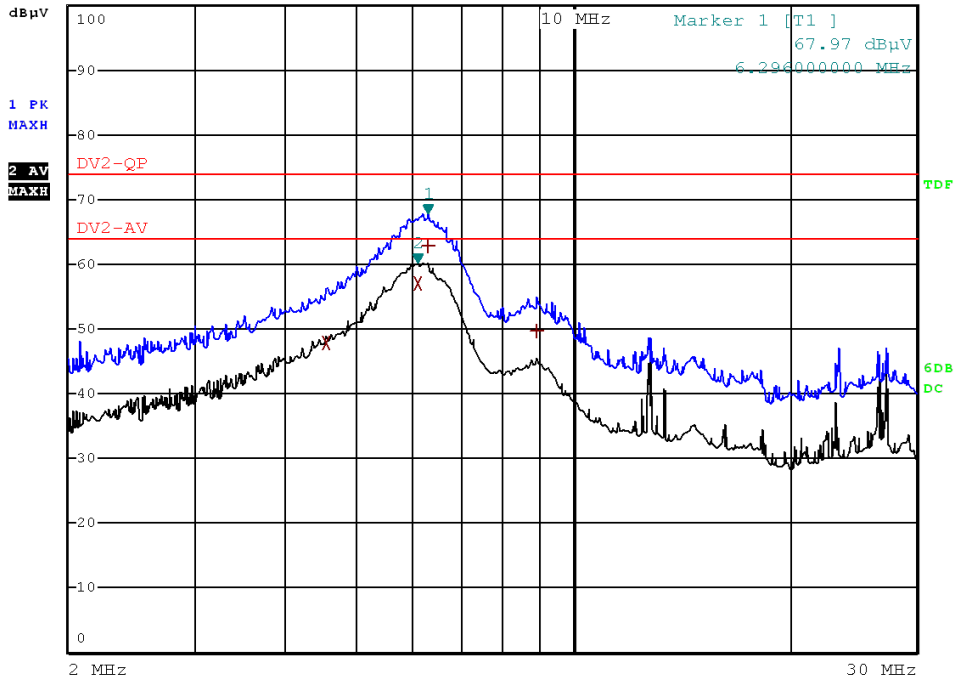


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COOL-IN-PE



RBW 9 kHz Marker 2 [T2]
MT 1 s 60.14 dBμV
Att 10 dB AUTO PREAMP OFF 6.096000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.096 MHz	56.95	-7.04
1 Quasi Peak	6.296 MHz	62.92	-11.07
2 Average	4.56 MHz	47.79	-16.20
1 Quasi Peak	8.908 MHz	49.62	-24.37

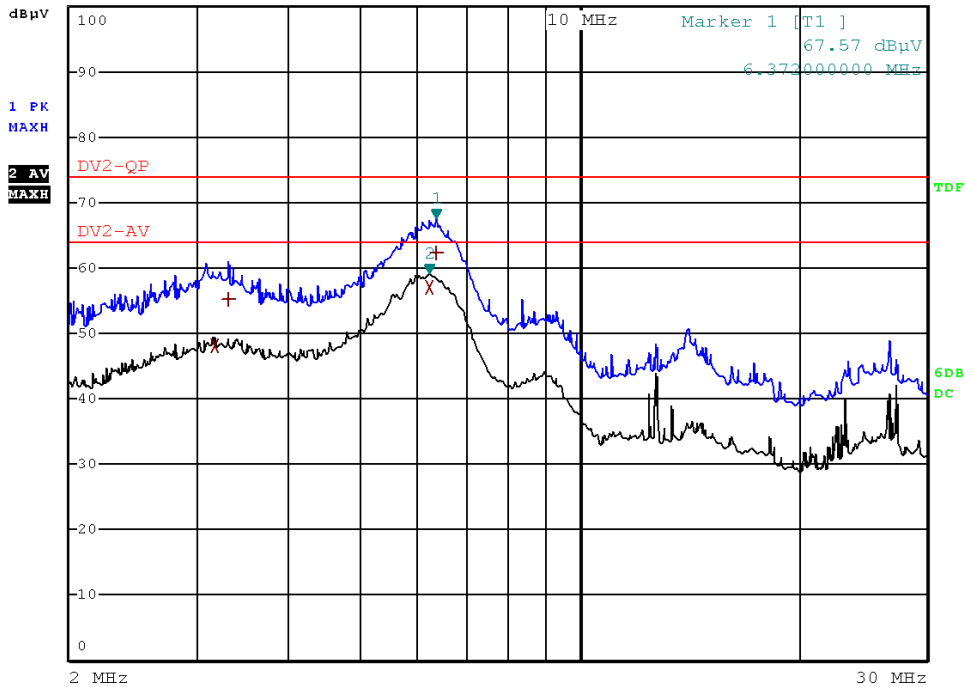


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MSEPDU-24HRFN8-QRD0GW
COOL-IN-1L



RBW 9 kHz Marker 2 [T2]
MT 1 s 59.19 dBμV
Att 10 dB AUTO PREAMP OFF 6.232000000 MHz

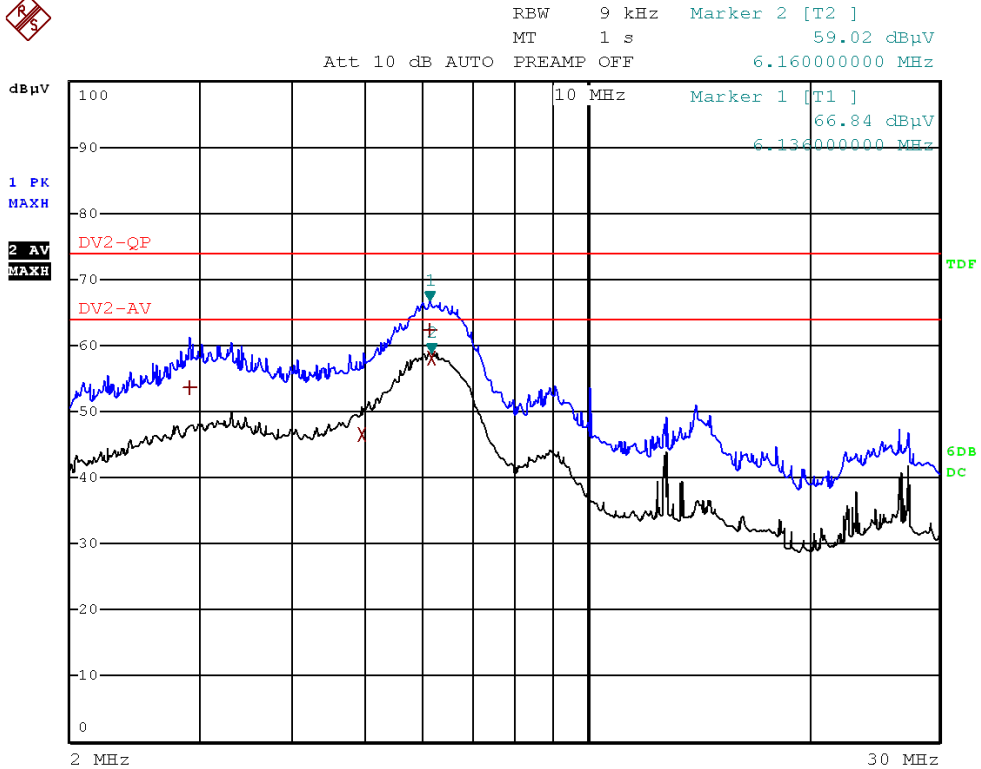


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.232 MHz	56.97	-7.02
1 Quasi Peak	6.372 MHz	62.24	-11.75
2 Average	3.164 MHz	48.20	-15.79
1 Quasi Peak	3.308 MHz	55.29	-18.70



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COOL-IN-2N

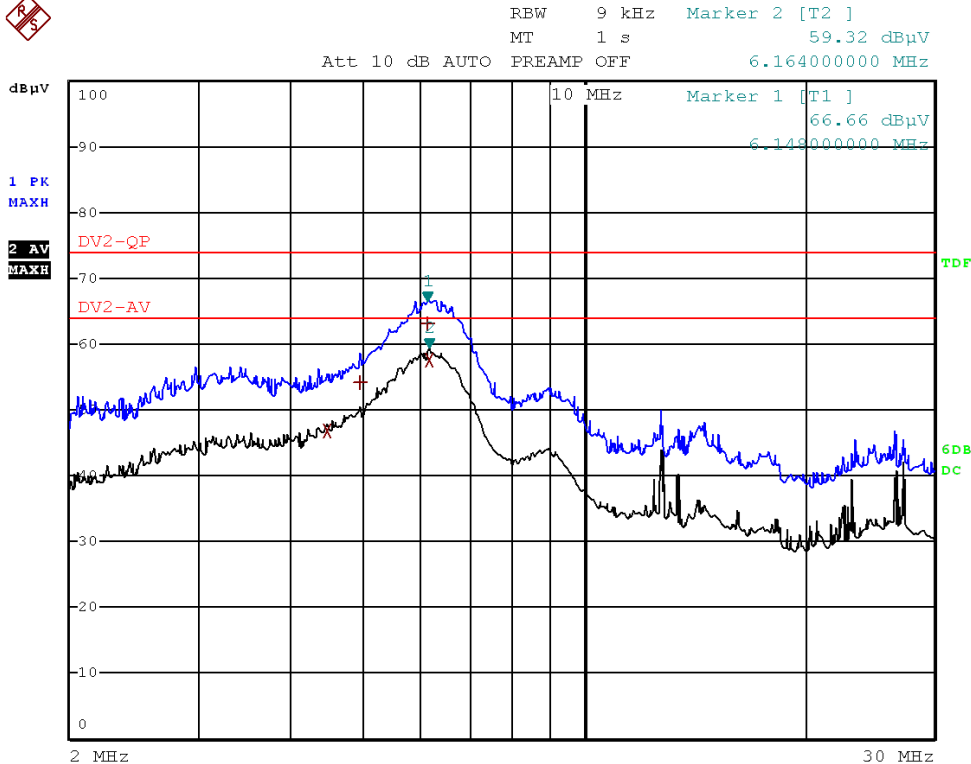


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.16 MHz	58.17	-5.82
1 Quasi Peak	6.136 MHz	62.39	-11.60
2 Average	4.96 MHz	46.68	-17.31
1 Quasi Peak	2.896 MHz	53.74	-20.25



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COOL-IN-S

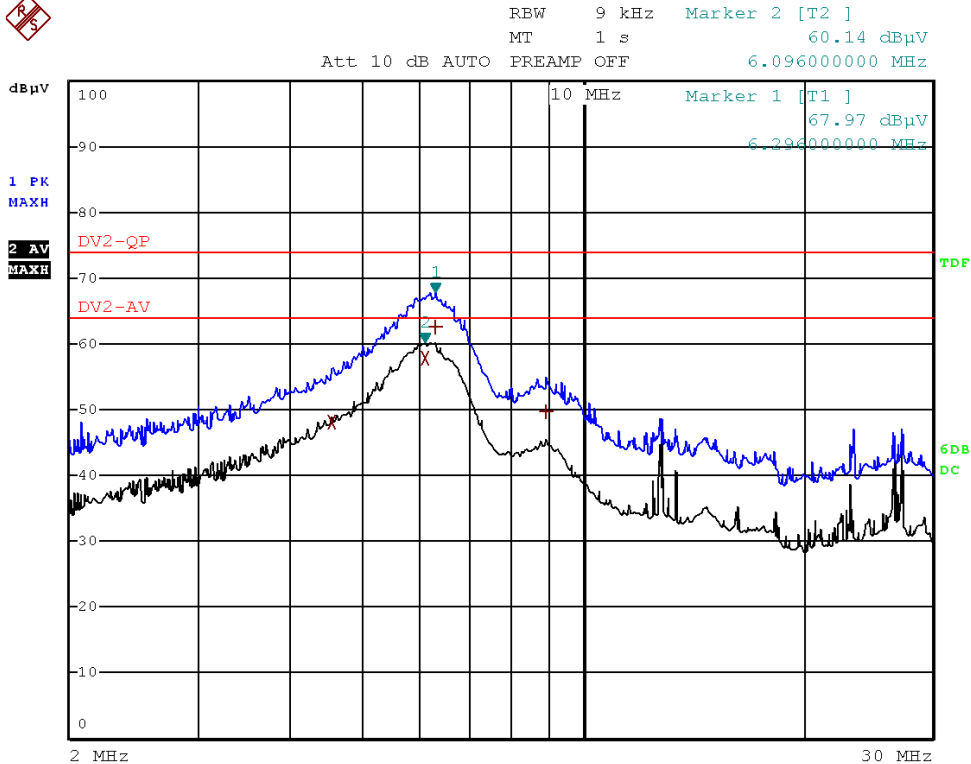


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.164 MHz	57.54	-6.45
1 Quasi Peak	6.148 MHz	63.24	-10.75
2 Average	4.488 MHz	46.97	-17.02
1 Quasi Peak	4.972 MHz	54.14	-19.85



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COOL-IN-PE

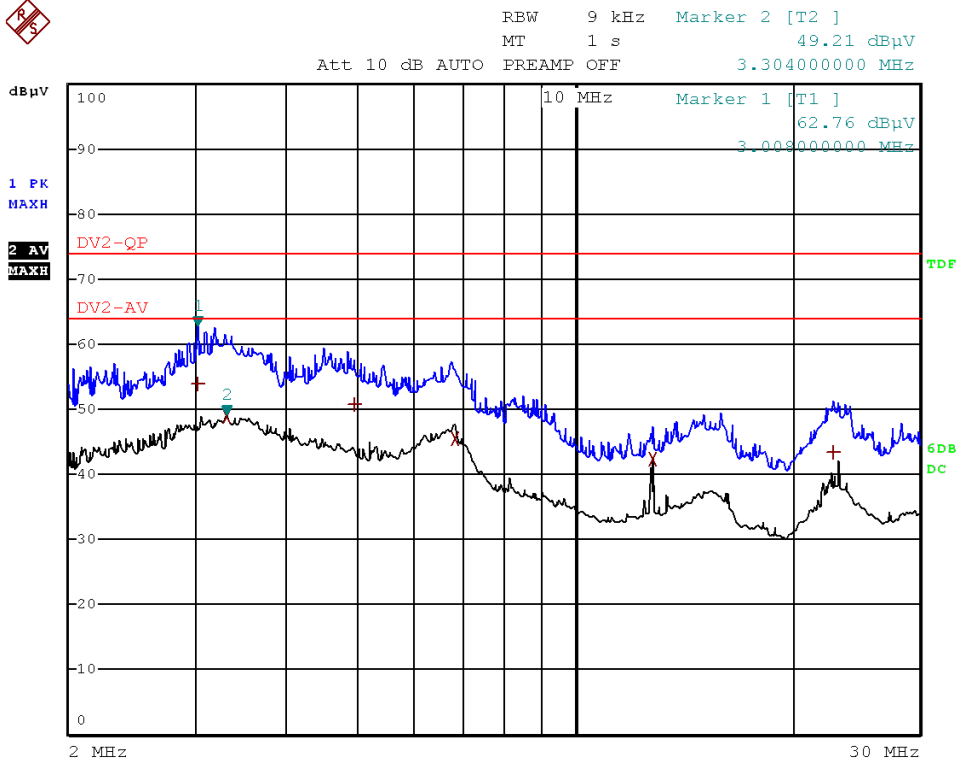


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.096 MHz	57.87	-6.12
1 Quasi Peak	6.296 MHz	62.56	-11.43
2 Average	4.56 MHz	48.20	-15.80
1 Quasi Peak	0.900 MHz	49.84	-24.15



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MSEPBU-12HRFN8-QRD6GW
COOL-OUT-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	3.304 MHz	40.93	-15.06
2 Average	6.82 MHz	45.53	-18.46
1 Quasi Peak	3.008 MHz	54.04	-19.95
2 Average	12.808 MHz	42.32	-21.67
1 Quasi Peak	4.972 MHz	50.69	-23.30
1 Quasi Peak	22.712 MHz	43.55	-30.44



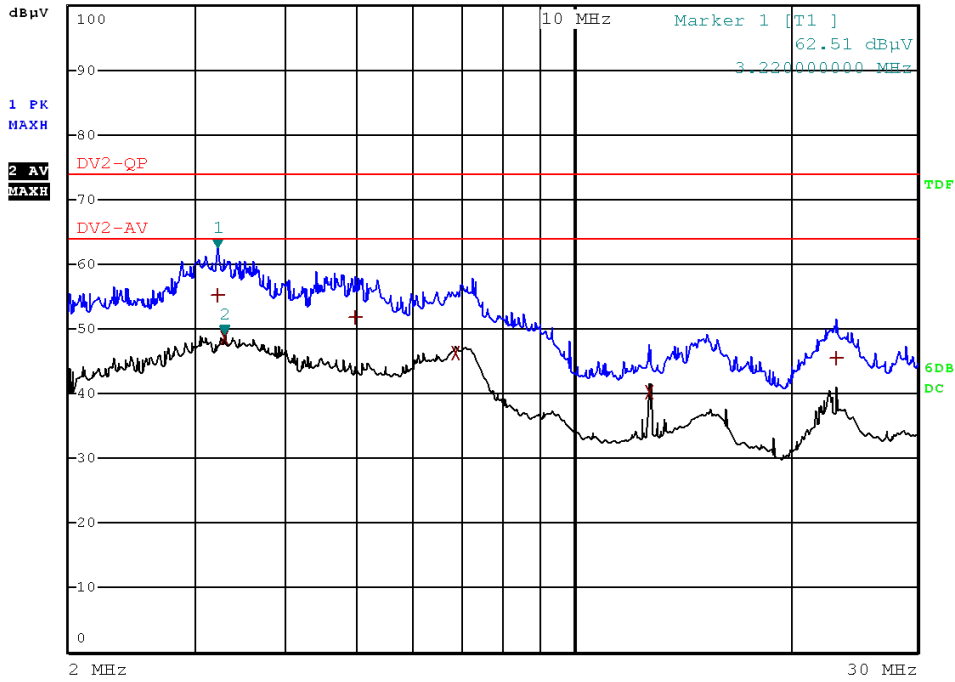
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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 49.19 dBµV
 Att 10 dB AUTO PREAMP OFF 3.284000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	3.284 MHz	48.67	-15.32
2 Average	6.884 MHz	46.25	-17.74
1 Quasi Peak	3.22 MHz	55.26	-18.73
1 Quasi Peak	5.004 MHz	51.93	-22.06
2 Average	12.748 MHz	40.36	-23.63
1 Quasi Peak	23.128 MHz	45.62	-28.37

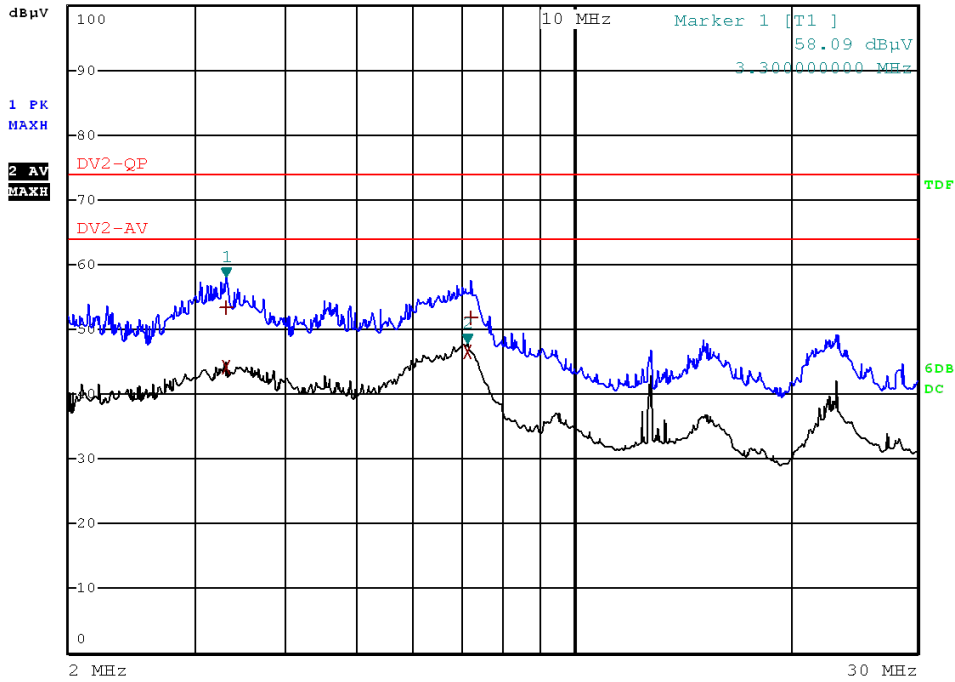


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 47.98 dBμV
 Att 10 dB AUTO PREAMP OFF 7.12000000 MHz

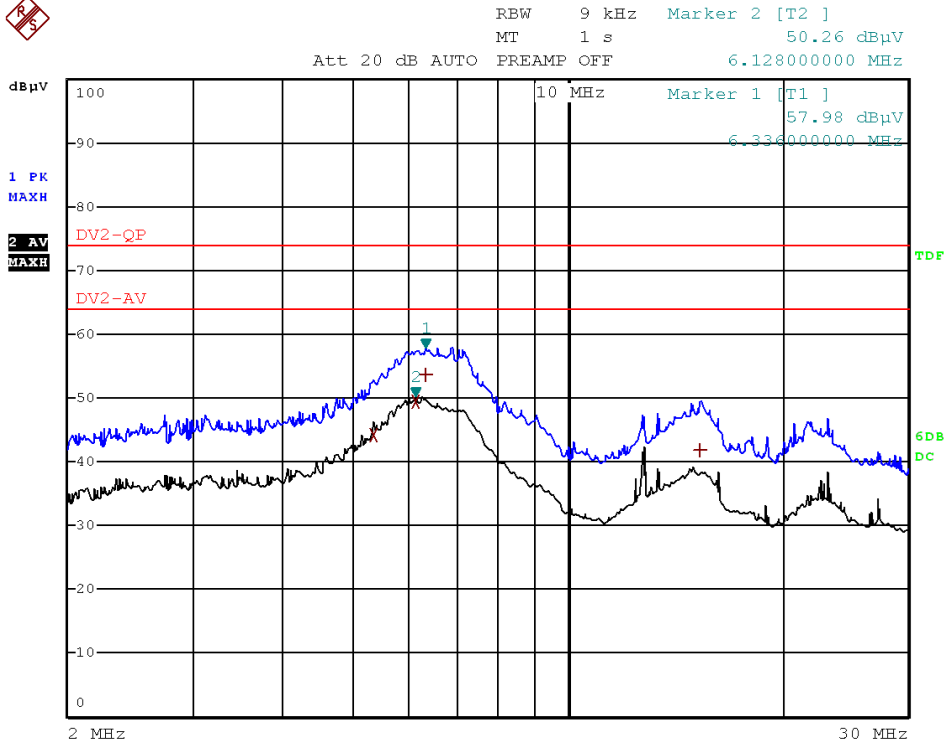


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	7.12 MHz	46.65	-17.35
2 Average	3.304 MHz	44.17	-19.83
1 Quasi Peak	3.3 MHz	50.32	-20.67
1 Quasi Peak	7.204 MHz	51.76	-22.23



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MSAEBU-12HRFN8-QRD6GW
COOL-OUT-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.128 MHz	49.48	-14.51
2 Average	5.368 MHz	44.30	-19.69
1 Quasi Peak	6.336 MHz	53.64	-20.35
1 Quasi Peak	15.328 MHz	41.89	-32.10

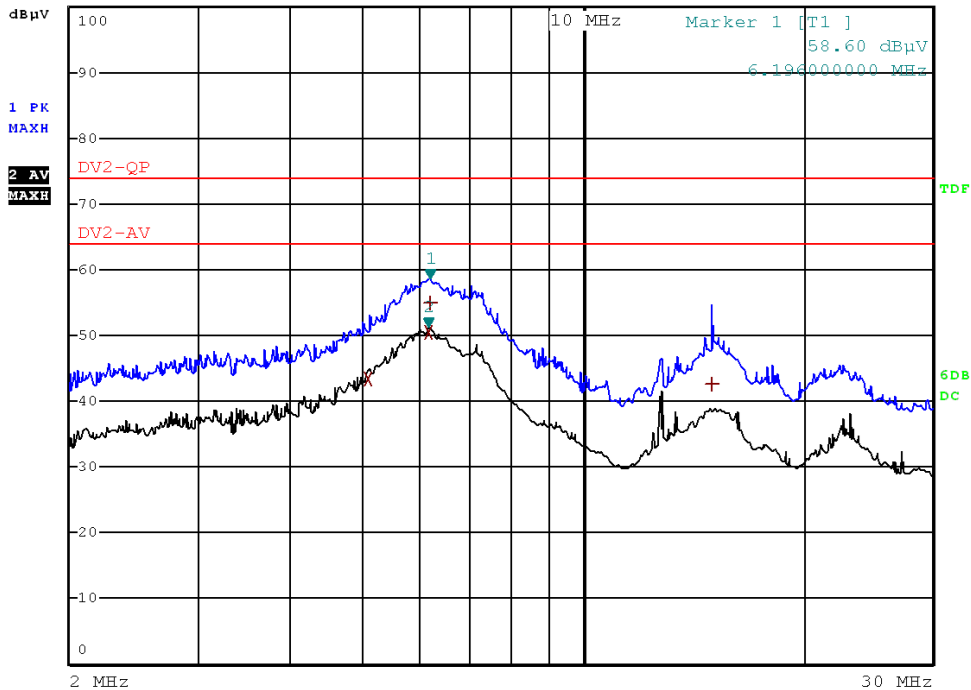


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 51.27 dBµV
 Att 10 dB AUTO PREAMP OFF 6.152000000 MHz

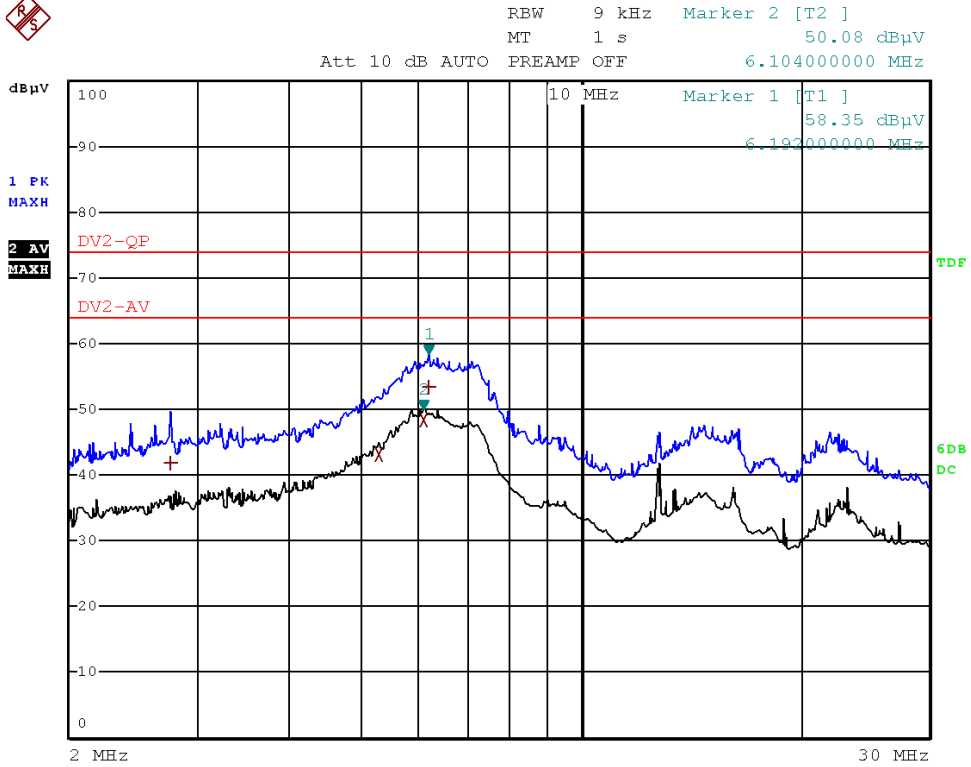


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.152 MHz	50.41	-13.58
1 Quasi Peak	6.196 MHz	54.93	-19.06
2 Average	5.088 MHz	43.49	-20.50
1 Quasi Peak	15.028 MHz	42.58	-31.42



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COOL-OUT-S

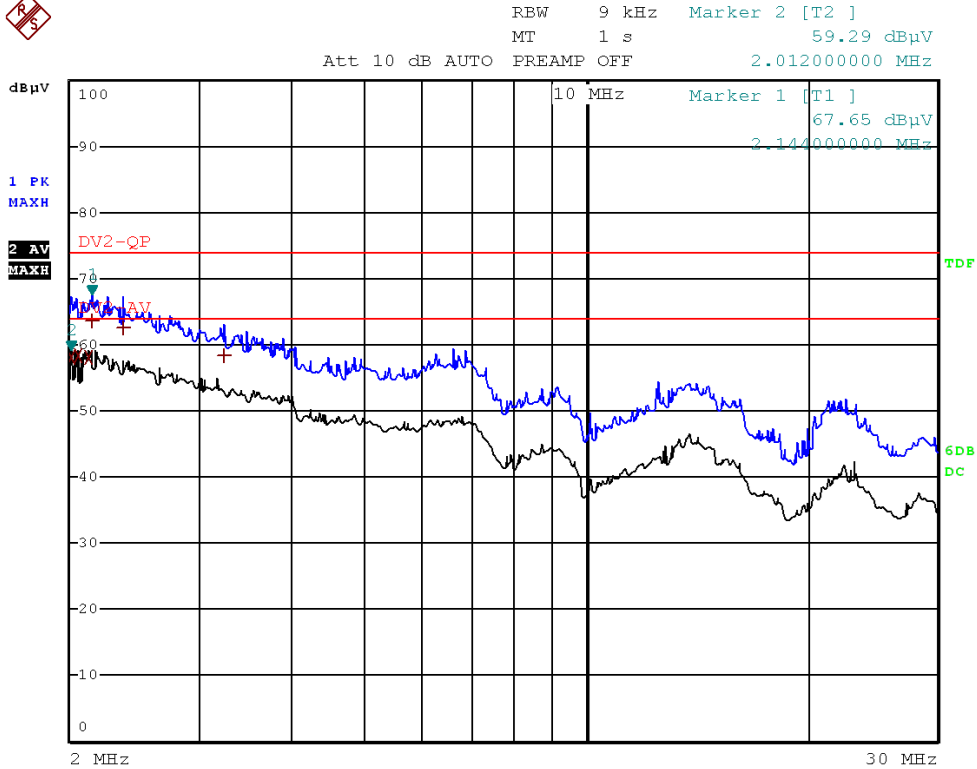


TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	6.104 MHz	48.33	-15.66
1 Quasi Peak	6.192 MHz	53.44	-20.56
2 Average	5.292 MHz	43.30	-20.69
1 Quasi Peak	2.752 MHz	41.86	-32.13



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MTIU-09HWFNX-QRD0W
COOL-OUT-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.056 MHz	58.42	-5.57
2 Average	2.116 MHz	58.09	-5.90
2 Average	2.012 MHz	58.03	-5.96
1 Quasi Peak	2.144 MHz	63.57	-10.42
1 Quasi Peak	2.356 MHz	62.40	-11.51
1 Quasi Peak	3.24 MHz	58.50	-15.49

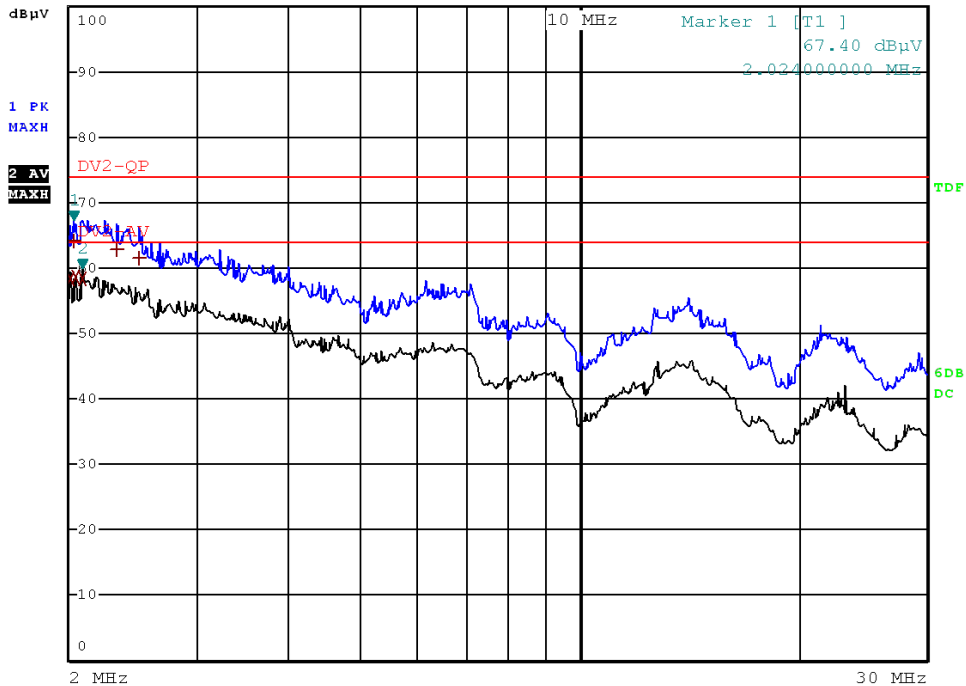


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 60.07 dBμV
 Att 10 dB AUTO PREAMP OFF 2.084000000 MHz

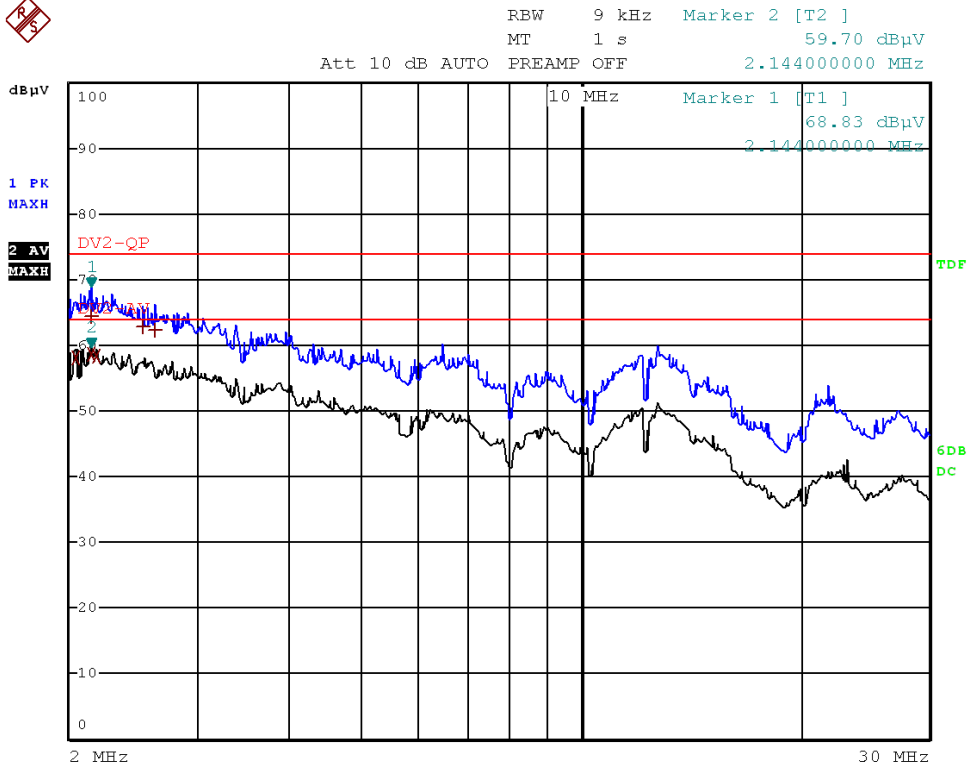


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.04 MHz	58.69	-5.30
2 Average	2.008 MHz	58.50	-5.49
2 Average	2.084 MHz	58.31	-5.68
1 Quasi Peak	2.024 MHz	64.20	-9.79
1 Quasi Peak	2.324 MHz	62.87	-11.12
1 Quasi Peak	2.488 MHz	61.60	-12.39



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COOL-OUT-S



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	2.144 MHz	58.71	-5.28
2 Average	2.176 MHz	58.43	-5.56
2 Average	2.04 MHz	58.03	-5.96
1 Quasi Peak	2.144 MHz	64.32	-9.67
1 Quasi Peak	2.52 MHz	62.82	-11.17
1 Quasi Peak	2.624 MHz	62.44	-11.56

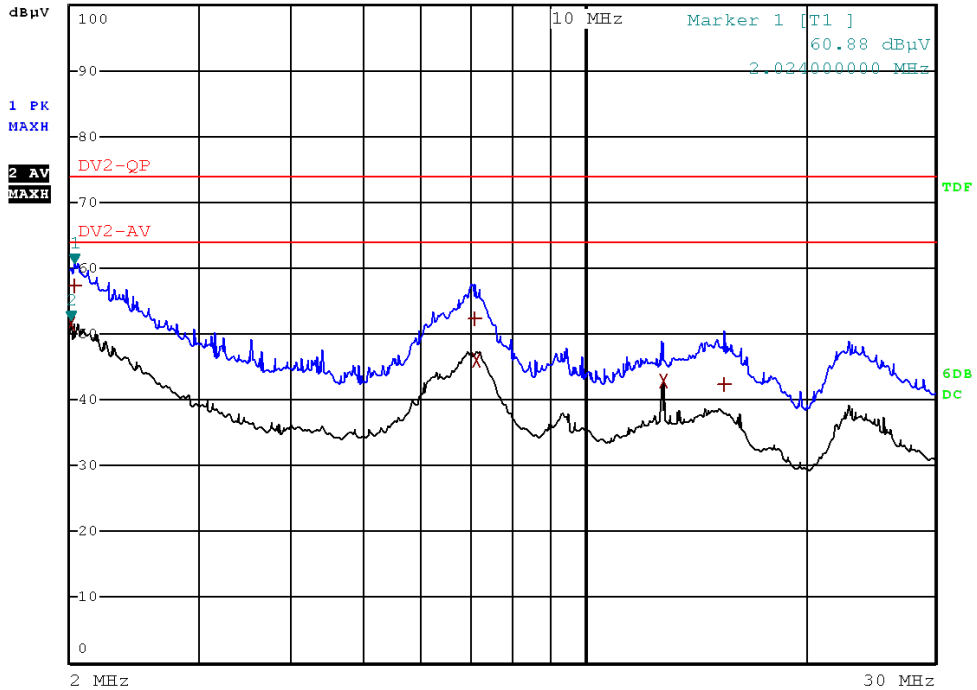


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MCA3U-18HRFNX-QRD0W
COOL-OUT-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 52.03 dBμV
Att 10 dB AUTO PREAMP OFF 2.008000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.008 MHz	51.60	-12.39
1 Quasi Peak	2.024 MHz	57.41	-16.58
2 Average	7.156 MHz	46.13	-17.86
2 Average	12.808 MHz	42.94	-21.05
1 Quasi Peak	7.104 MHz	52.25	-21.74
1 Quasi Peak	15.512 MHz	42.45	-31.54

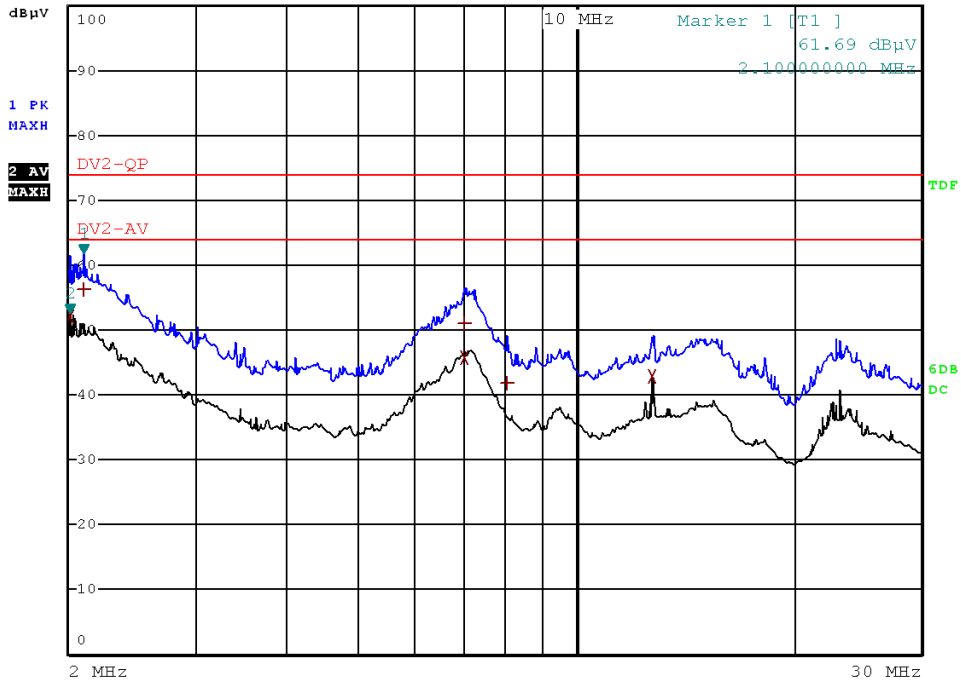


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 52.70 dBμV
 Att 10 dB AUTO PREAMP OFF 2.008000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.008 MHz	52.01	-11.93
1 Quasi Peak	2.1 MHz	56.23	-17.76
2 Average	7.032 MHz	45.91	-18.09
2 Average	12.748 MHz	43.01	-20.98
1 Quasi Peak	7.012 MHz	51.16	-22.83
1 Quasi Peak	8.044 MHz	41.84	-32.15

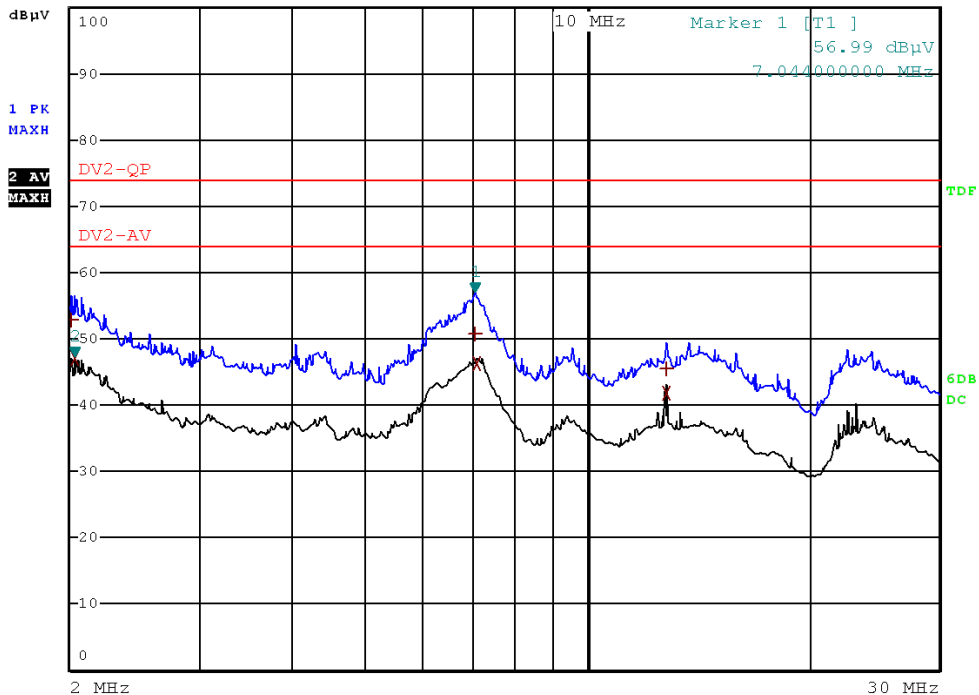


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 47.38 dBμV
 Att 10 dB AUTO PREAMP OFF 2.024000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.024 MHz	47.21	-16.78
2 Average	7.104 MHz	46.28	-17.71
1 Quasi Peak	2.008 MHz	52.81	-21.18
2 Average	12.808 MHz	41.78	-22.21
1 Quasi Peak	7.044 MHz	50.71	-23.29
1 Quasi Peak	12.808 MHz	45.63	-28.36

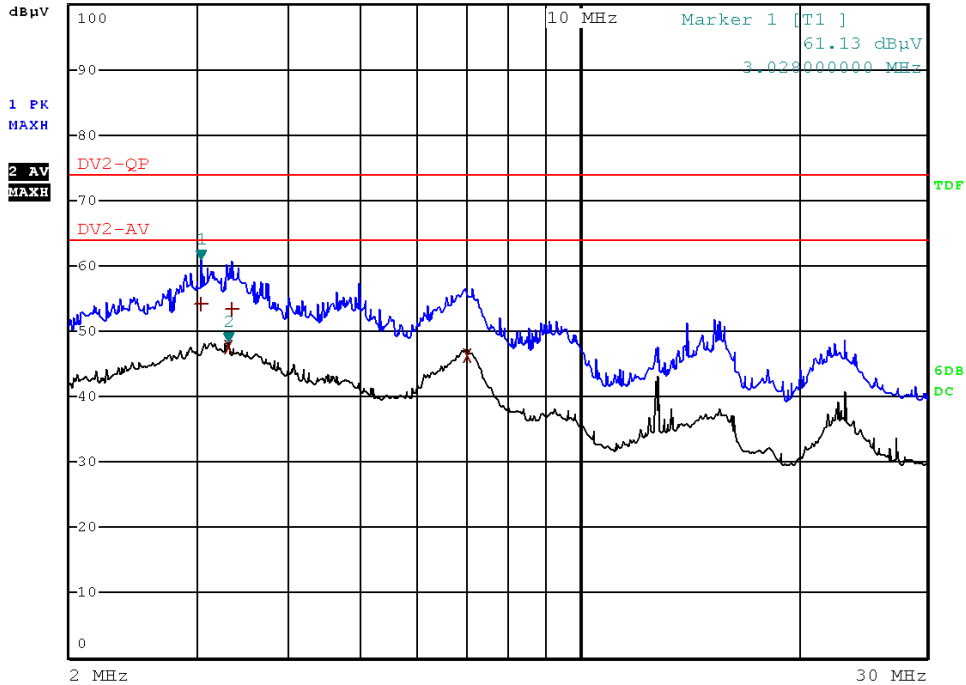


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MSEPDU-24HRFN8-QRD0GW
COOL-OUT-L



RBW 9 kHz Marker 2 [T2]
MT 1 s 48.30 dBμV
Att 10 dB AUTO PREAMP OFF 3.300000000 MHz



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	3.3 MHz	47.72	-16.27
2 Average	7.036 MHz	46.39	-17.60
1 Quasi Peak	3.028 MHz	54.23	-19.77
1 Quasi Peak	3.344 MHz	53.37	-20.62

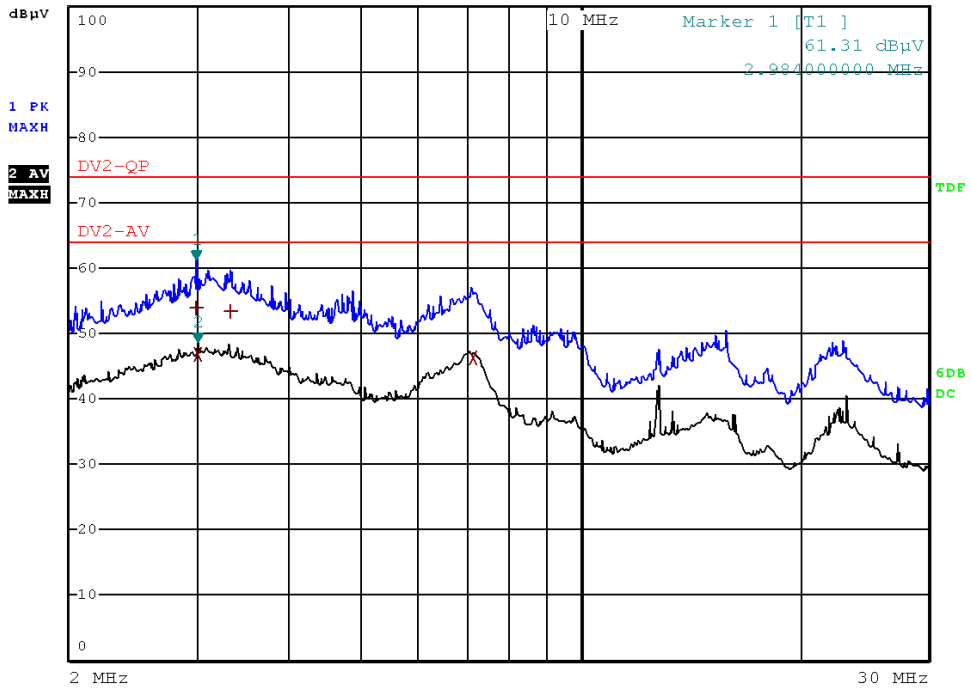


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COOL-OUT-N



RBW 9 kHz Marker 2 [T2]
 MT 1 s 48.67 dBµV
 Att 10 dB AUTO PREAMP OFF 3.000000000 MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	3 MHz	46.75	-17.24
2 Average	7.144 MHz	46.42	-17.57
1 Quasi Peak	2.984 MHz	53.99	20.00
1 Quasi Peak	3.324 MHz	53.51	-20.48

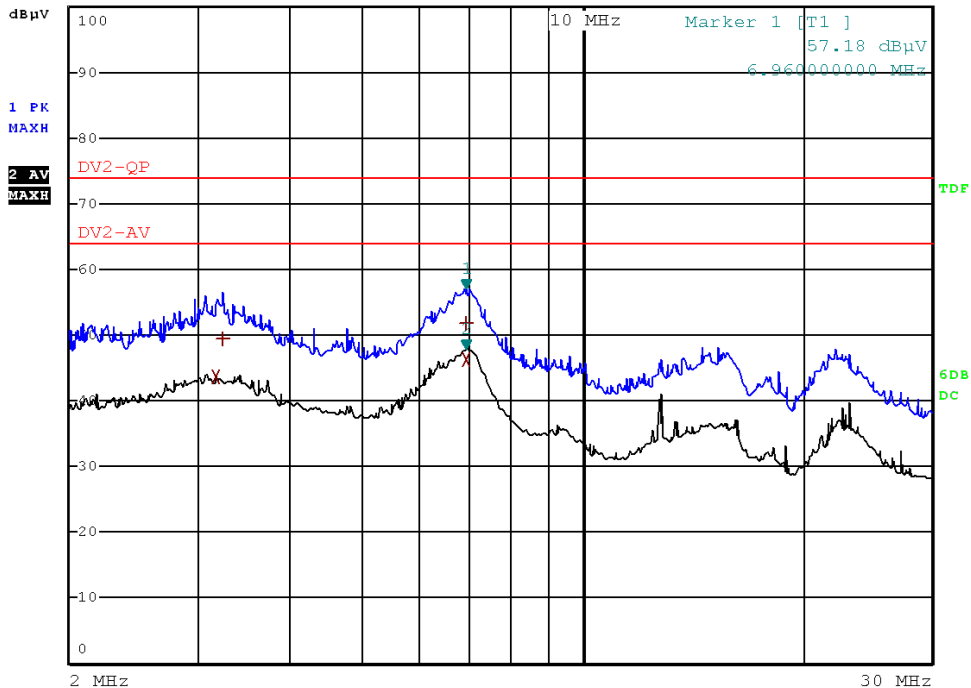


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COOL-OUT-S



RBW 9 kHz Marker 2 [T2]
 MT 1 s 47.93 dBμV
 Att 10 dB AUTO PREAMP OFF 6.936000000 MHz

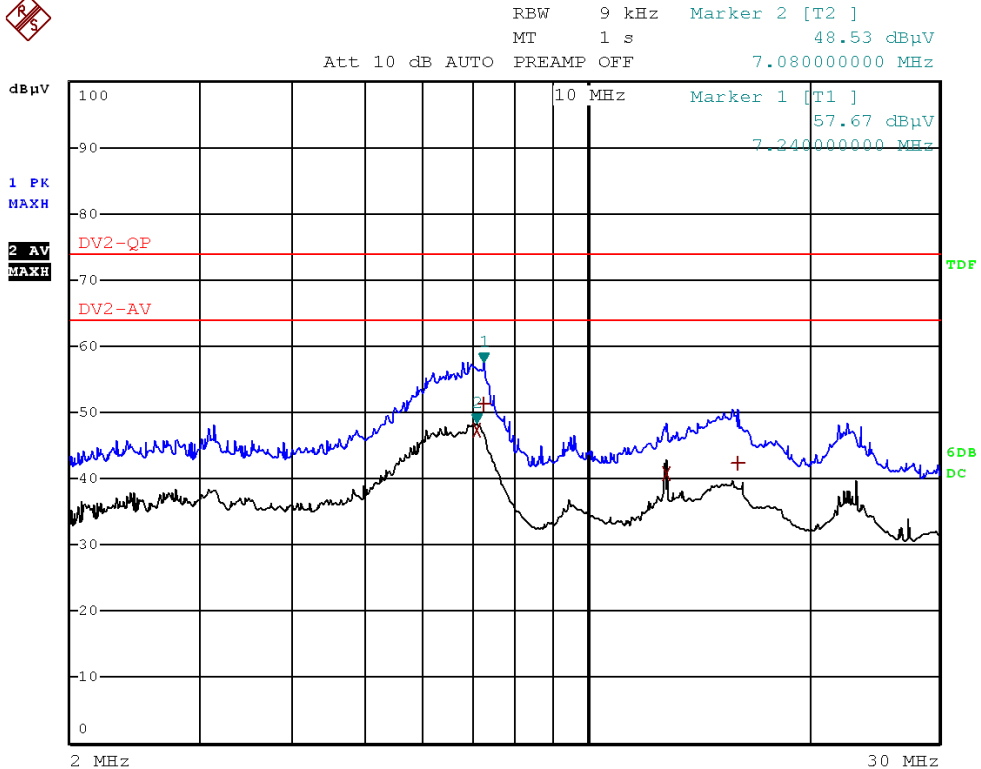


TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	6.936 MHz	46.45	-17.55
2 Average	3.16 MHz	43.63	-20.36
1 Quasi Peak	6.96 MHz	51.84	-22.15
1 Quasi Peak	3.24 MHz	49.50	-24.49



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COOL-OUT-PE



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	7.08 MHz	47.46	-16.53
1 Quasi Peak	7.24 MHz	51.41	-22.58
2 Average	12.808 MHz	40.77	-23.22
1 Quasi Peak	16.004 MHz	42.51	-31.48



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6.3 Disturbance Power

Test Requirement: EN 55014-1:2017
 Test Method: CISPR 16-2-2
 Frequency Range: 30MHz to 300MHz
 Limit:
 30MHz- 300MHz 45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

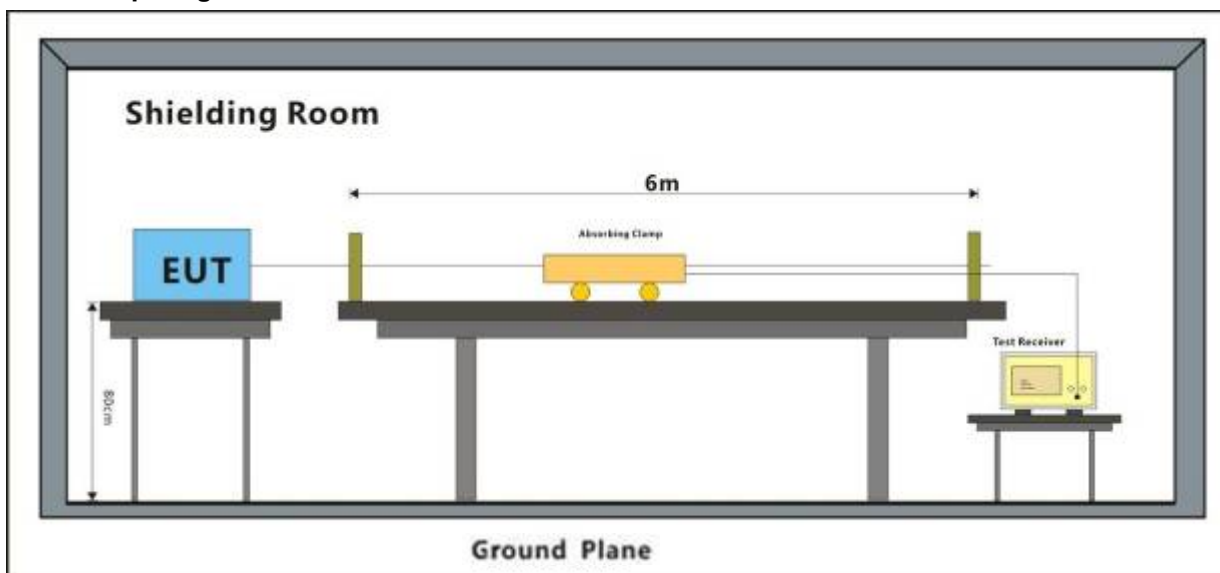
Pretest these modes to find the worst case: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

The worst case for final test: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.3.2 Test Setup Diagram

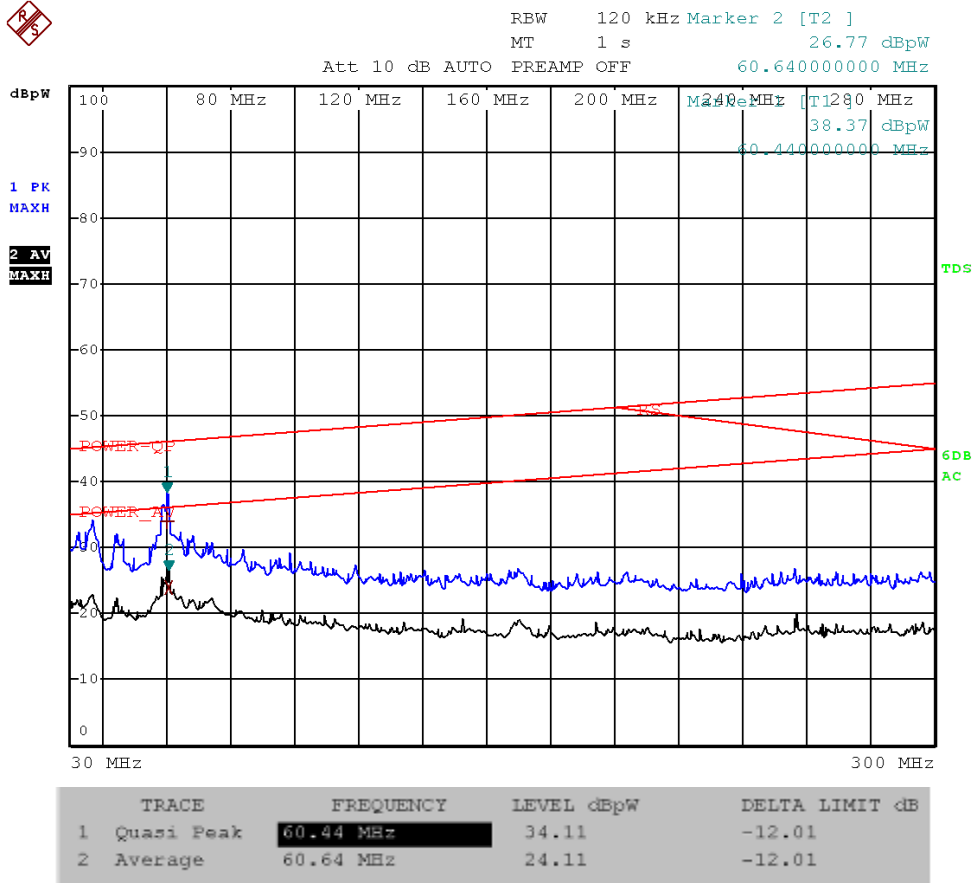


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6.3.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A
COOL-POWER

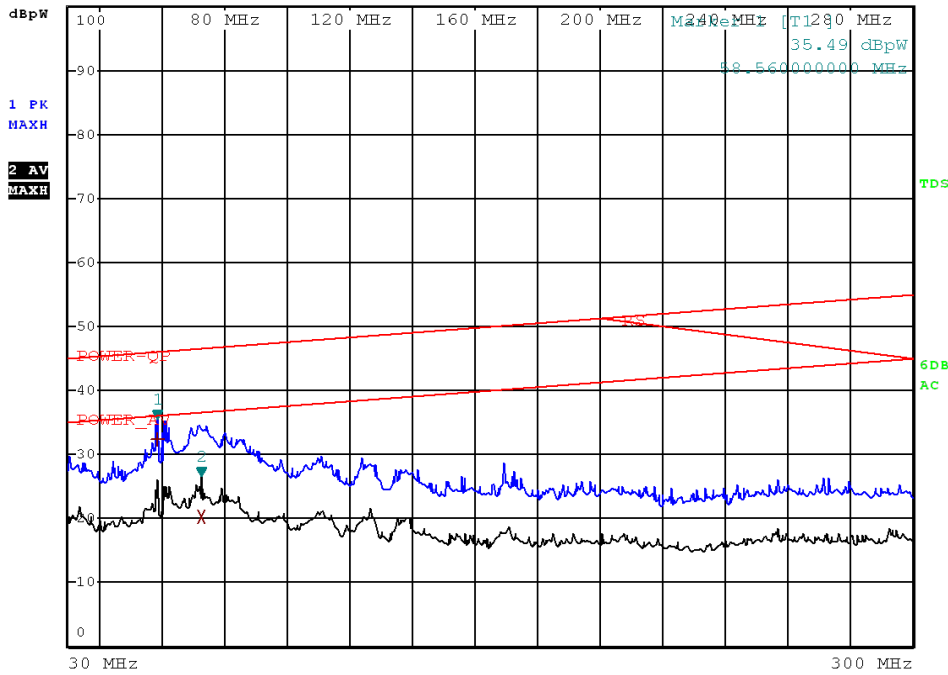


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COOL-IN-MSABBU-12HRFNX-QRD0GW



RBW 120 kHz Marker 2 [T2]
 MT 1 s 26.52 dBpW
 Att 10 dB AUTO PREAMP OFF 72.44000000 MHz

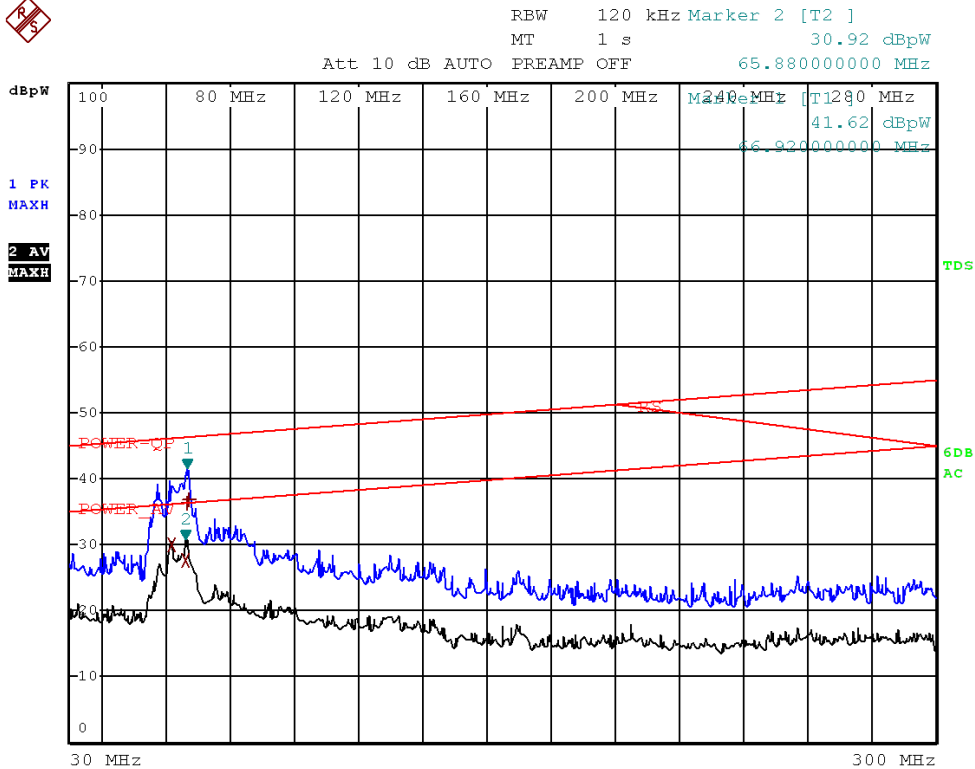


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	58.56 MHz	32.43	-13.62
2 Average	72.44 MHz	20.42	-16.14



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COOL-IN-MSABBU-12HRFN8-QRD6GW

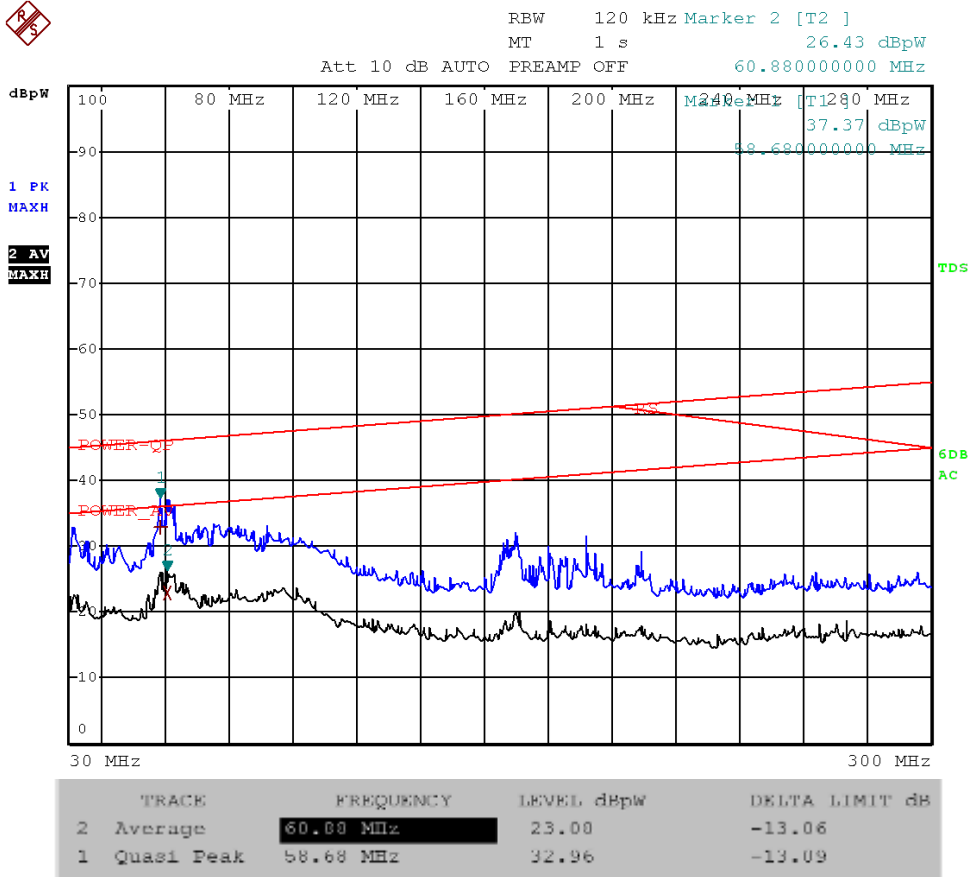


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	61.8 MHz	29.93	-6.24
2 Average	65.88 MHz	27.70	-8.62
1 Quasi Peak	67.12 MHz	36.95	-9.42
1 Quasi Peak	66.92 MHz	36.44	-9.91



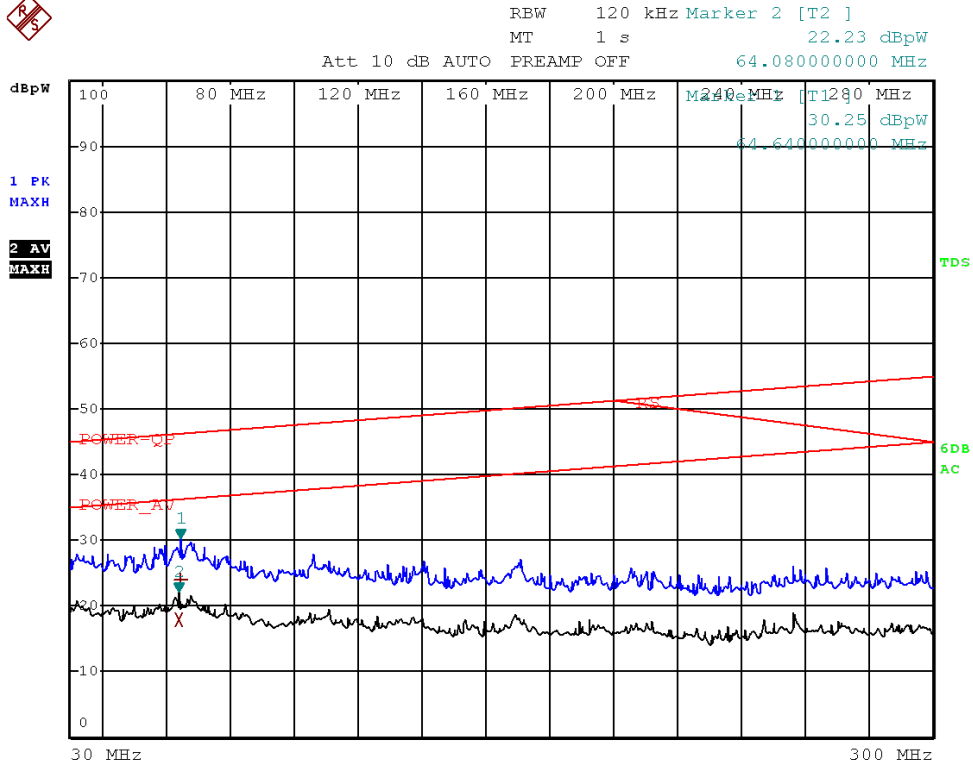
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COOL-IN-MSAGBU-12HRFNX-QRD0GW



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COOL-IN-MSAFBU-12HRDNX-QRD0FGW

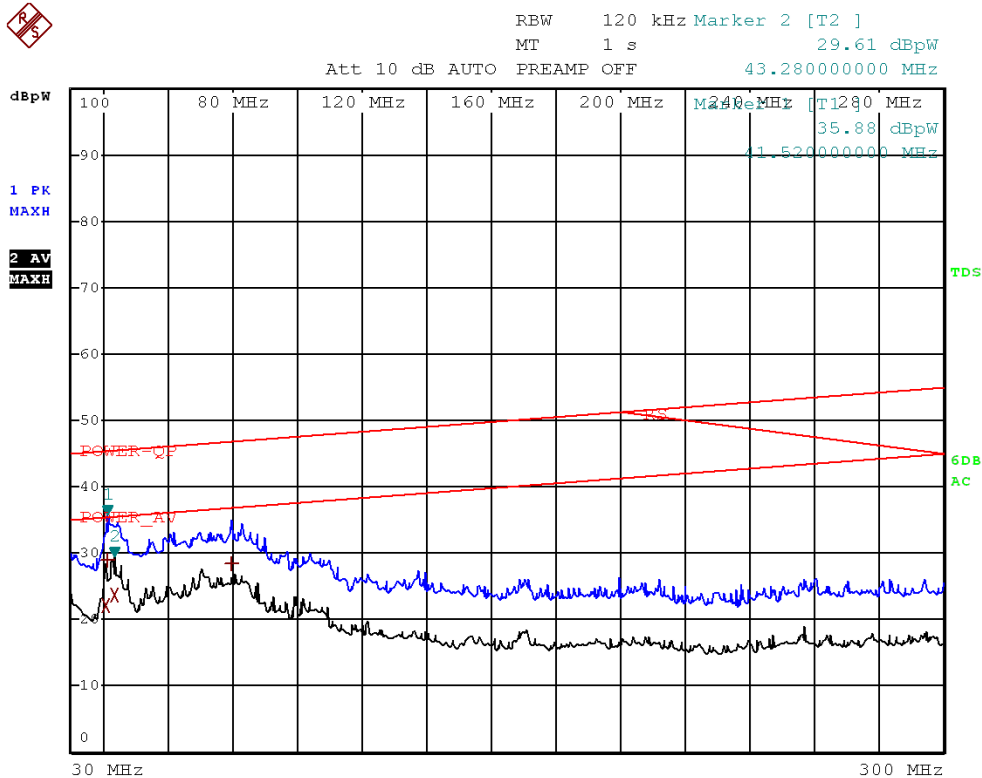


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	64.08 MHz	18.02	-18.24
1 Quasi Peak	64.64 MHz	24.10	-22.17



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COOL-IN-MSEPCU-18HRFN8-QRD0GW



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	43.28 MHz	23.72	-11.76
2 Average	40.64 MHz	22.06	-13.33
1 Quasi Peak	41.52 MHz	28.94	-16.48
1 Quasi Peak	79.52 MHz	28.37	-18.45

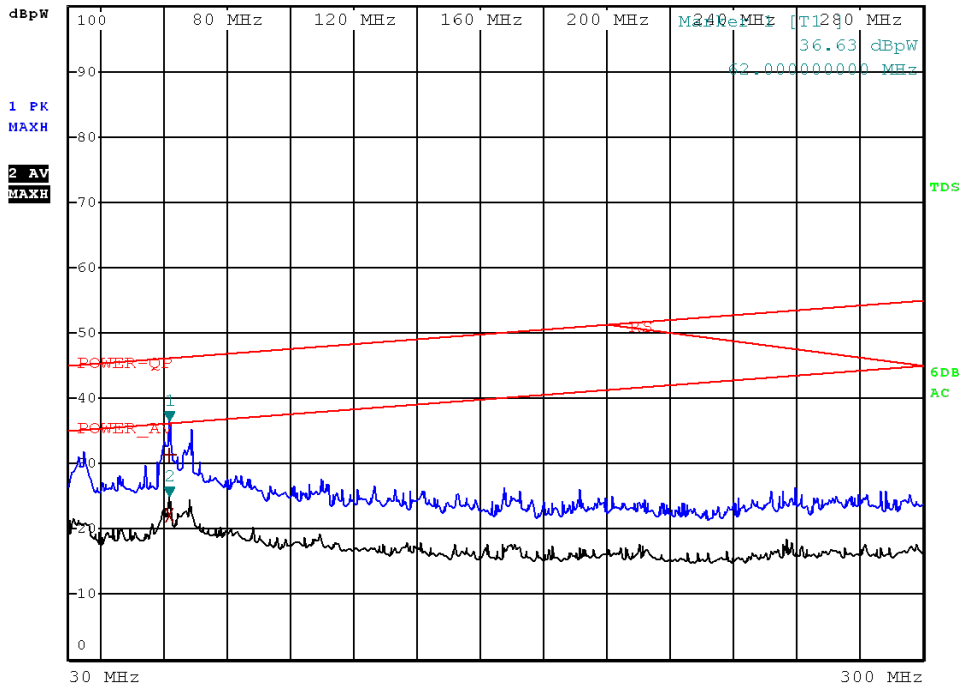


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COOL-OUT-MSABBU-12HRFNX-QRD0GW



RBW 120 kHz Marker 2 [T2]
 MT 1 s 25.04 dBpW
 Att 10 dB AUTO PREAMP OFF 62.04000000 MHz

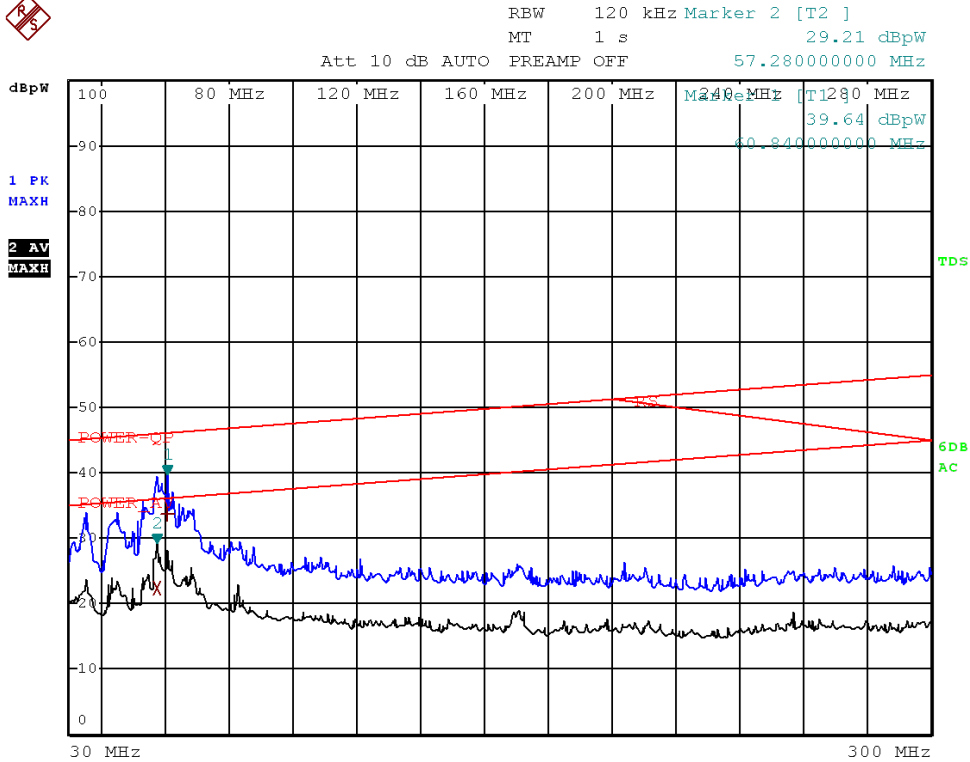


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	62.04 MHz	22.30	-13.87
1 Quasi Peak	62 MHz	31.40	-14.78



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COOL-OUT-MSABBU-12HRFN8-QRD6GW



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	60.84 MHz	33.73	-12.41
2 Average	57.28 MHz	22.36	-13.64

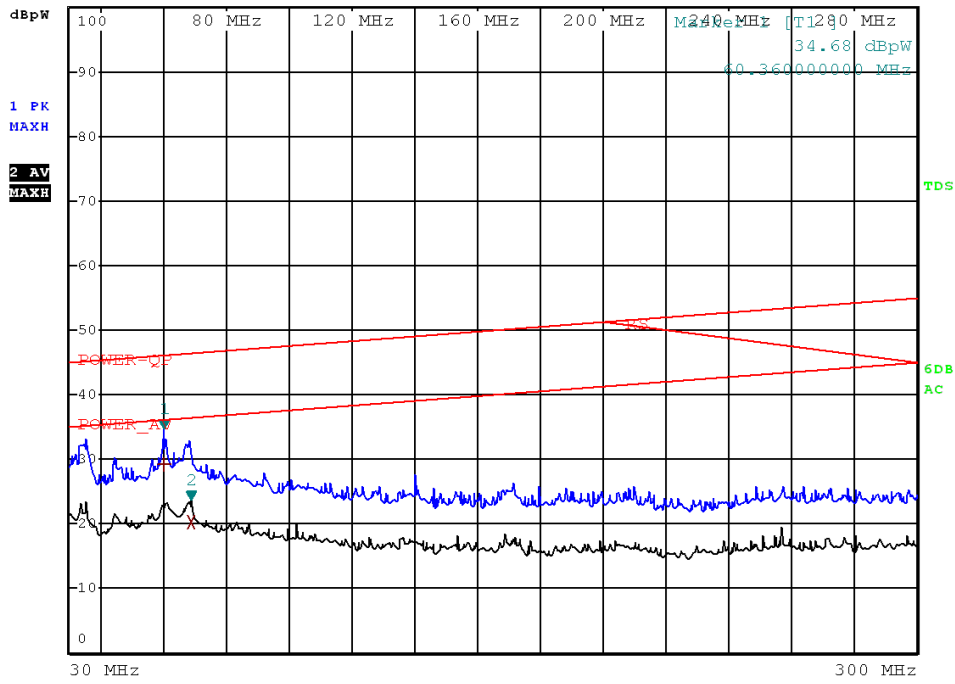


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COOL-OUT-MSAGBU-12HRFNX-QRD0GW



REW 120 kHz Marker 2 [T2]
 MT 1 s 23.72 dBpW
 Att 10 dB AUTO PREAMP OFF 69.04000000 MHz

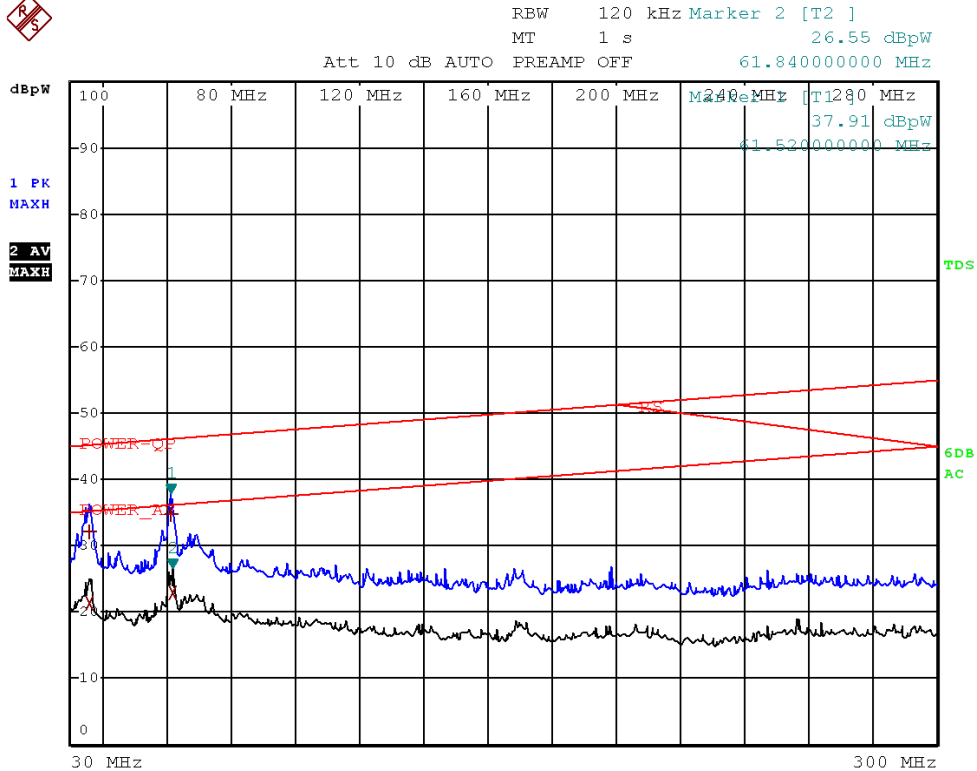


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	69.04 MHz	20.35	-16.09
1 Quasi Peak	60.36 MHz	29.24	-16.87



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COOL-IN-MSAFBU-12HRDNX-QRD0FGW

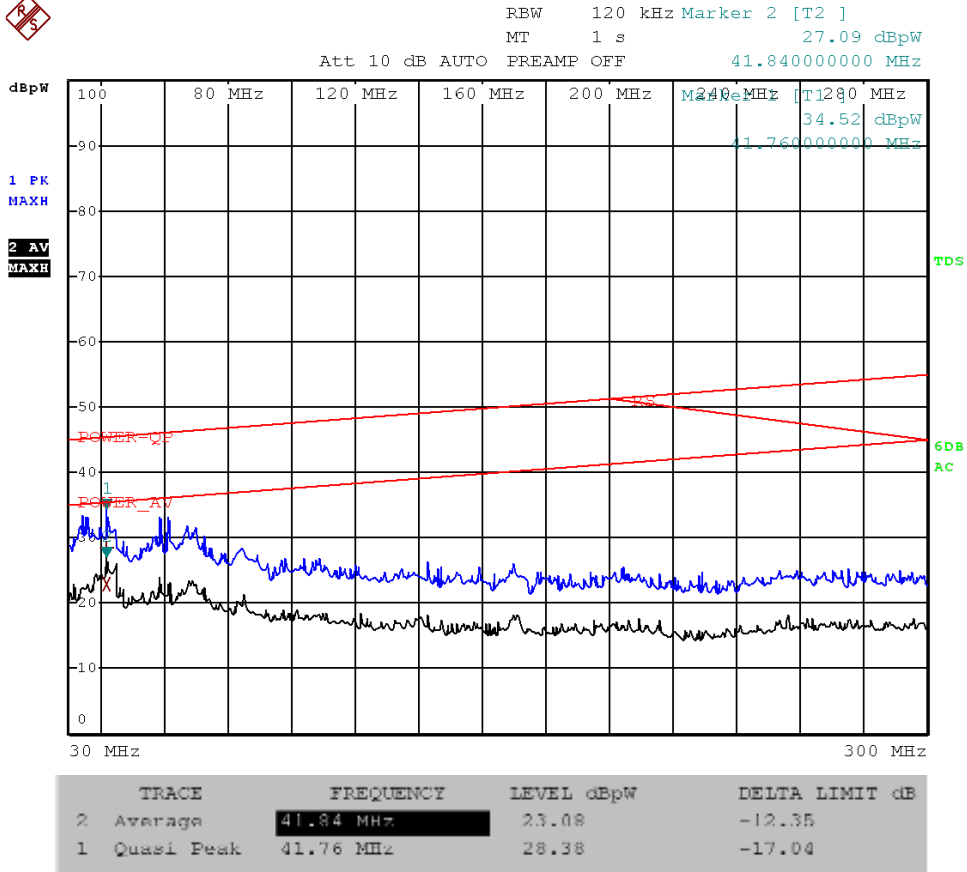


TRACK	FREQUENCY	LEVEL, dBpW	DELTA LIMIT, dB
1 Quasi Peak	61.52 MHz	34.70	-11.46
2 Average	61.84 MHz	23.06	-13.11
1 Quasi Peak	35.8 MHz	32.03	-13.17
2 Average	35.60 MHz	21.49	-13.72



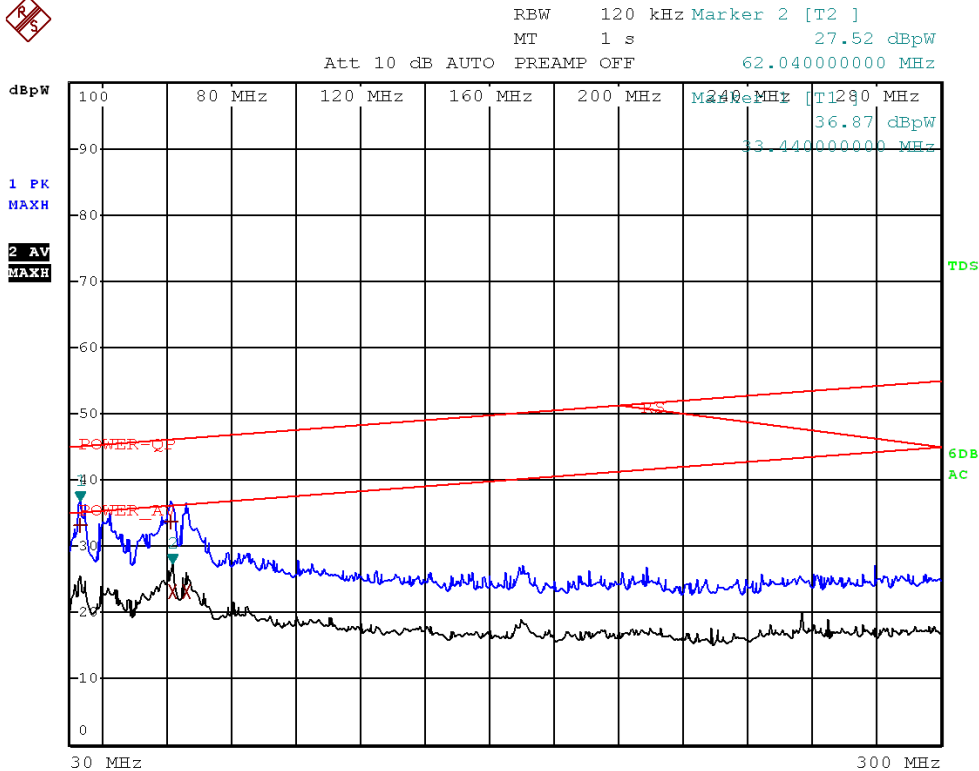
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COOL-OUT-MSEPCU-18HRFN8-QRD0GW



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**For Model B
COOL-POWER**



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	33.44 MHz	33.23	-11.89
1 Quasi Peak	61.24 MHz	33.76	-12.38
2 Average	62.04 MHz	23.35	-12.82
2 Average	66.24 MHz	23.15	-13.19



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COOL-IN-MSAEBU-12HRFN8-QRD6GW



RBW 120 kHz Marker 2 [T2]
 MT 1 s 28.69 dBpW
 Att 10 dB AUTO PREAMP OFF 62.56000000 MHz



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	62.56 MHz	26.54	-9.66
1 Quasi Peak	62.28 MHz	32.80	-13.38



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COOL-IN-MSEPBU-12HRFN8-QRD6GW

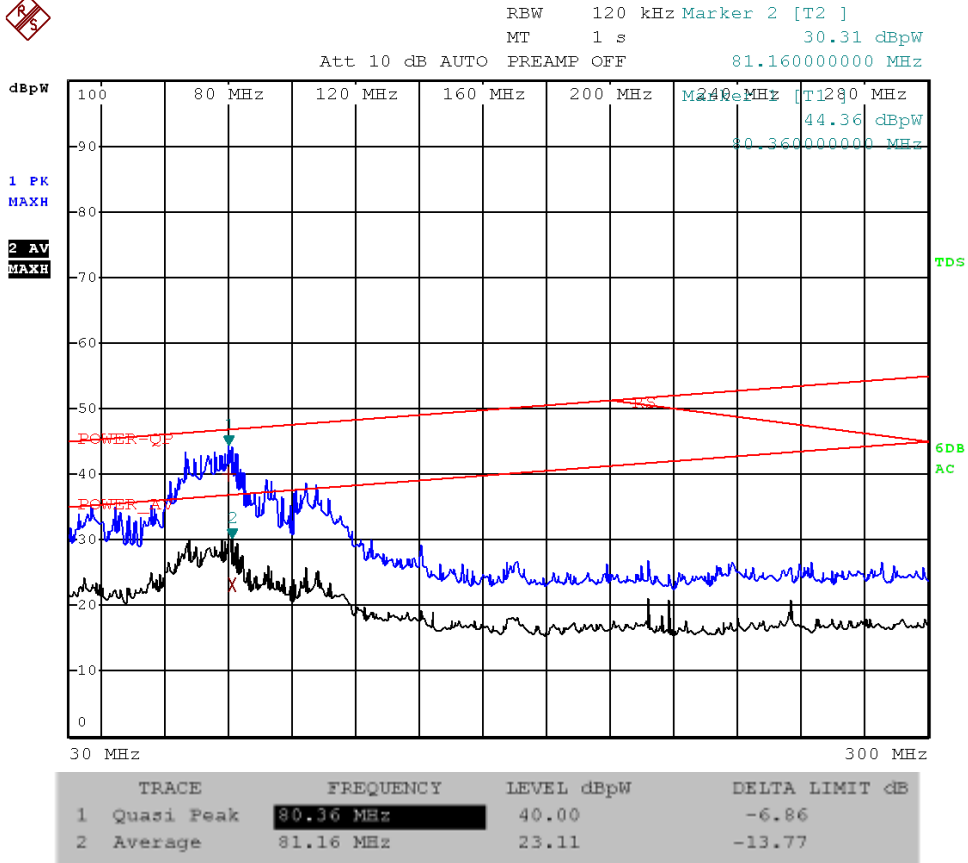


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	45.4 MHz	23.39	-12.17
1 Quasi Peak	30.48 MHz	28.40	-16.61



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COOL-IN-MTIU-09HWFNX-QRD0W

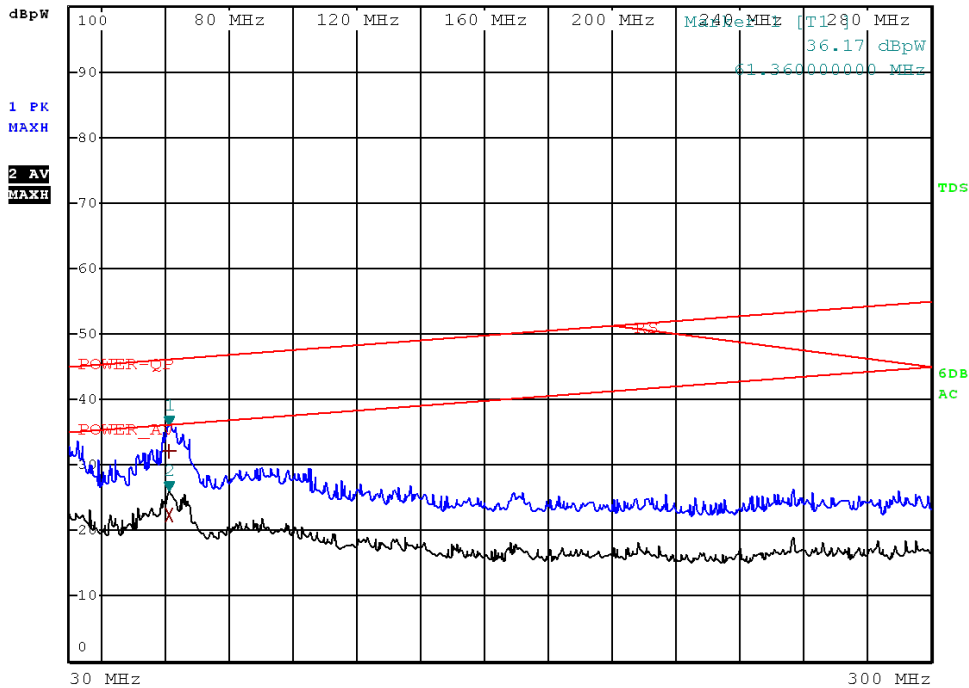


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COOL-IN-MCA3U-18HRFNX-QRD0W



RBW 120 kHz Marker 2 [T2]
 MT 1 s 26.08 dBpW
 Att 10 dB AUTO PREAMP OFF 61.16000000 MHz



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	61.16 MHz	22.42	-13.72
1 Quasi Peak	61.36 MHz	32.17	-13.98



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COOL-IN-MSEPDU-24HRFN8-QRD0GW



RBW 120 kHz Marker 2 [T2]
 MT 1 s 29.30 dBpW
 Att 10 dB AUTO PREAMP OFF 66.320000000 MHz



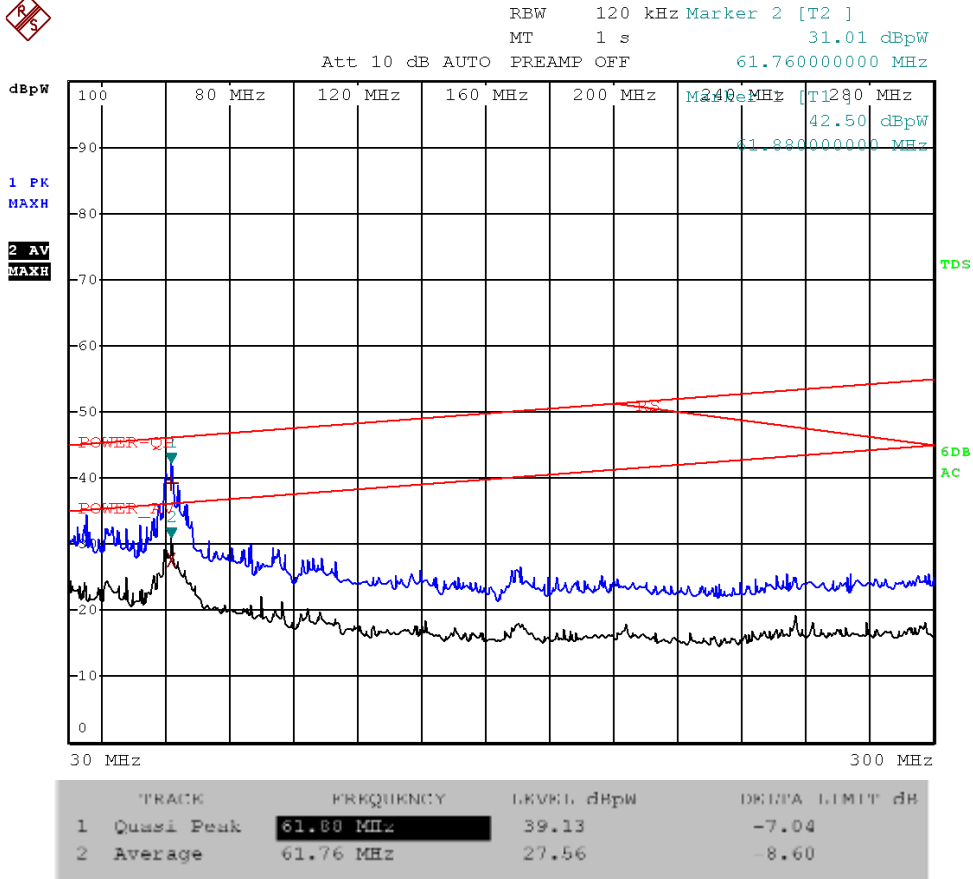
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	63.92 MHz	35.78	-10.46
2 Average	66.32 MHz	25.77	-10.56



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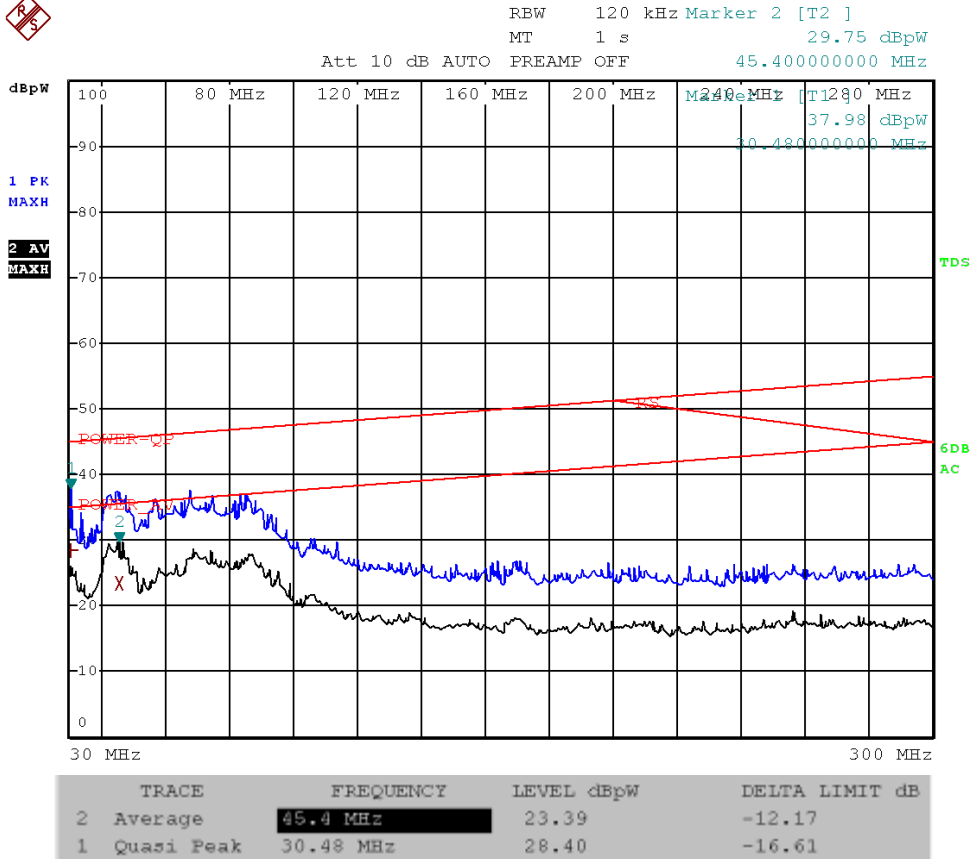
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COOL-OUT-MSAEBU-12HRFN8-QRD6GW



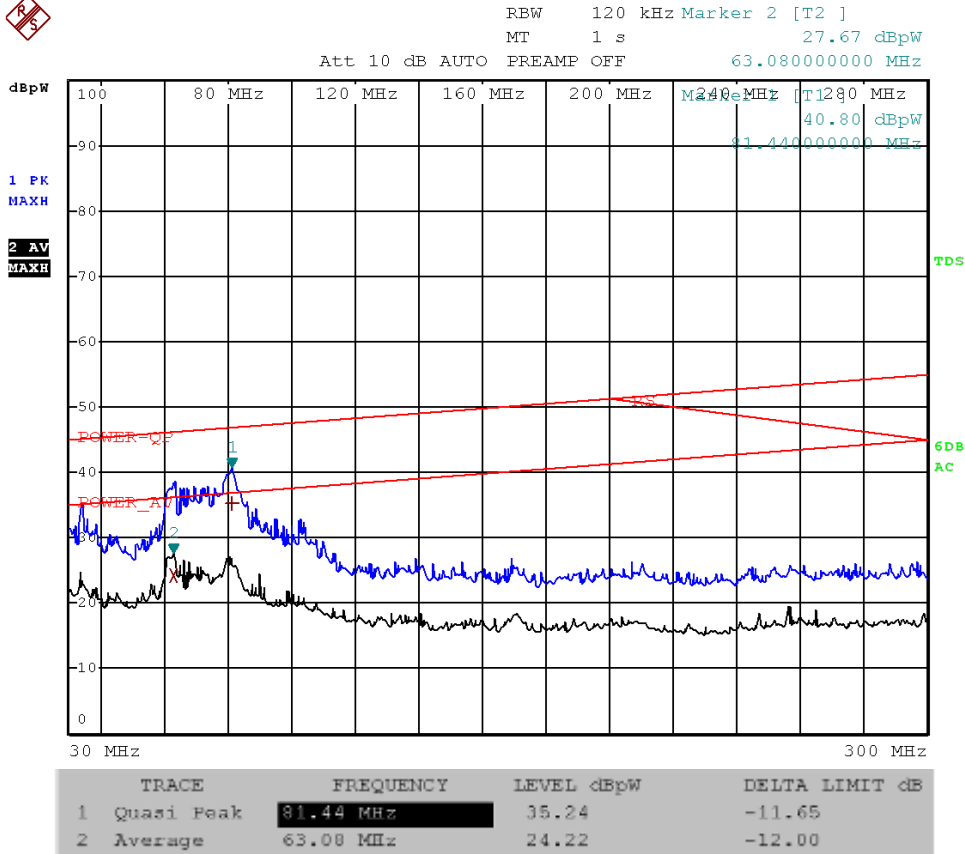
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COOL-OUT-MSEPBU-12HRFN8-QRD6GW



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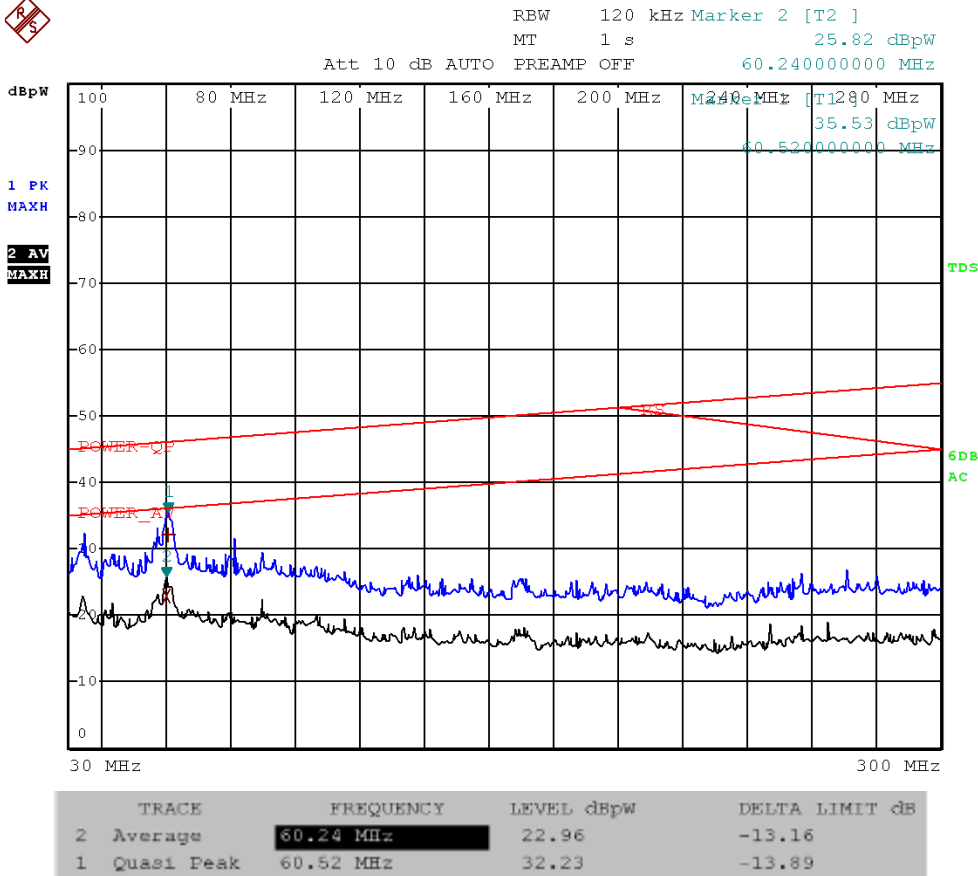
COOL-OUT-MTIU-09HWFNX-QRD0W



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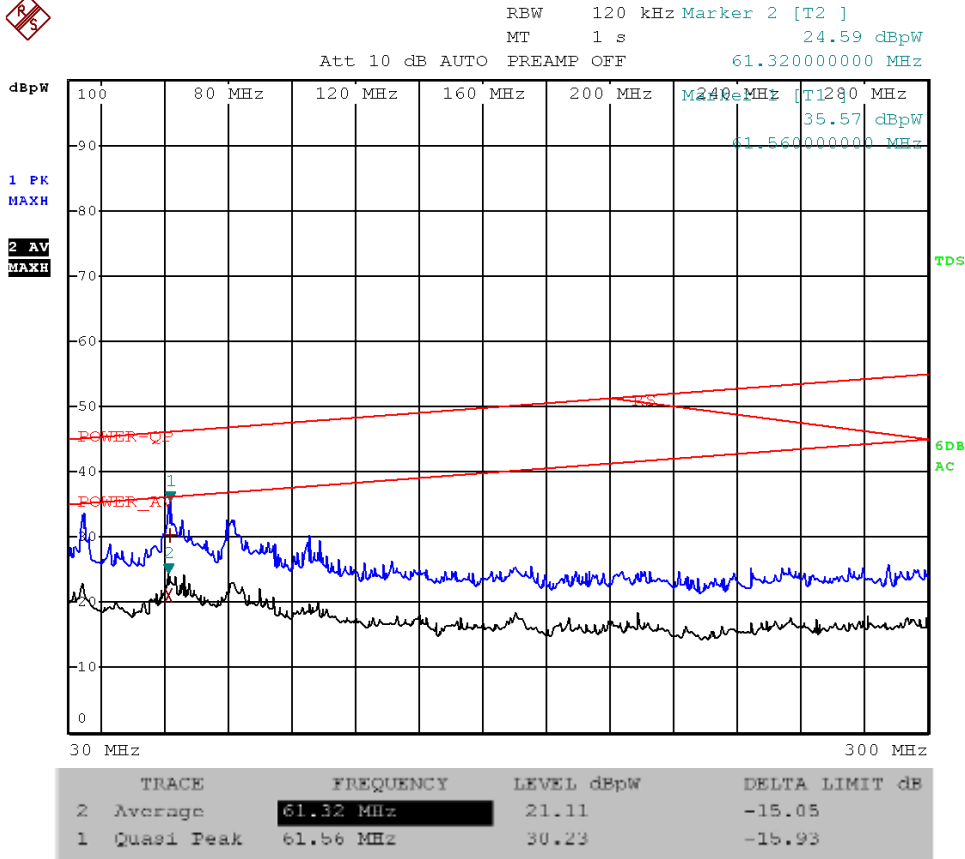
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COOL-OUT-MCA3U-18HRFNX-QRD0W



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COOL-OUT-MSEPDU-24HRFN8-QRD0GW



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6.4 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2017

Test Method: EN 55014-1:2017

Frequency Range: 150kHz to 30MHz

Limit:

Provision	Click Rate (N)		
1	All clicks < 20 ms	90 % click < 10 ms	$N \leq 5$
2	$N \leq 0,2$	$L_q^b = L^a + 44$	Clicks $^c \leq 25\%$ exceed L_q^b
3	$30 \geq N > 0,2$	$L_q^b = L^a + 20 \lg(30/N)$	Clicks $^c \leq 25\%$ exceed L_q^b

^a The limits L of Conducted Emissions apply also to discontinuous disturbances from all equipment which produce:
 1) disturbances other than clicks, or
 2) clicks with a click rate N equal to or greater than 30

^b The relevant limit L_q for continuous disturbance, as given in 4.1.1 for the measurement with the quasi-peak detector, increased by a certain value determined from the click rate N (see also 4.2.2.2)
 The click limit applies to the disturbance assessed according to the upper quartile method

^c a quarter of the number of the clicks registered during the observation time T is allowed to exceed the click limit L_q

6.4.1 E.U.T. Operation

Operating Environment:

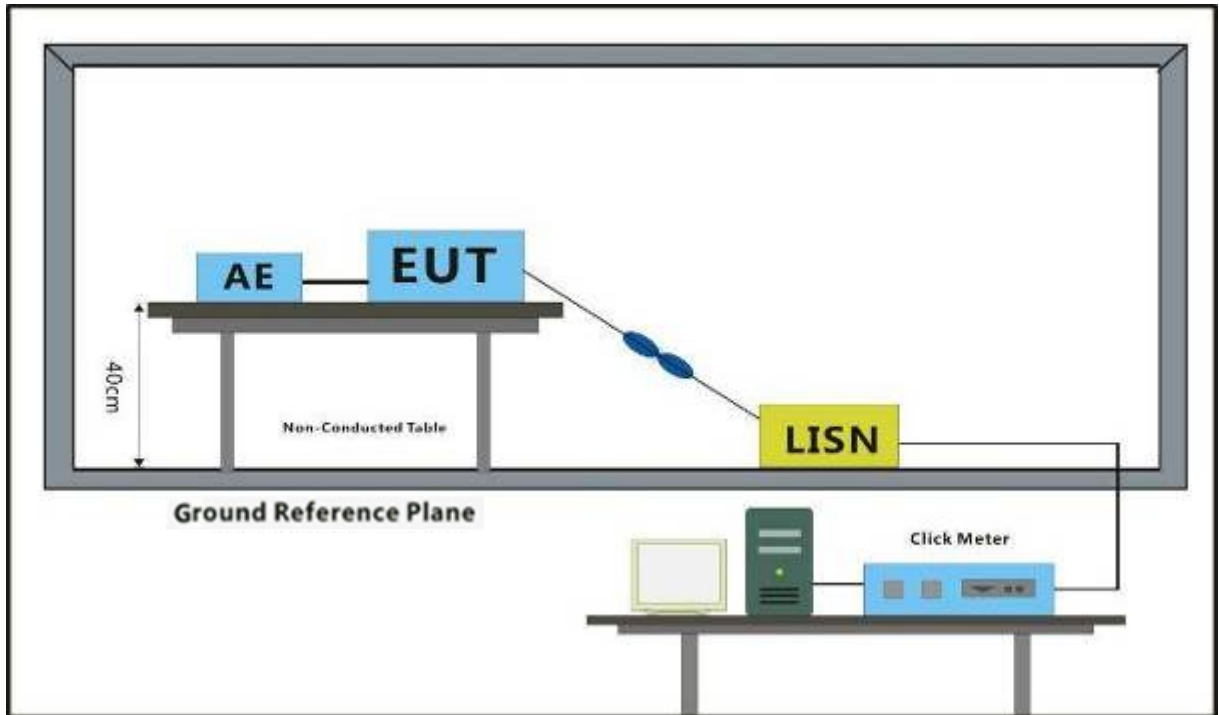
Temperature: 27 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.



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6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

For Model A

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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For Model B

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10 < t ≤ 20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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6.5 Harmonic Current Emission

Test Requirement: EN 61000-3-12:2011
 Test Method: EN 61000-3-12:2011
 Frequency Range: 100Hz to 2kHz

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 32 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

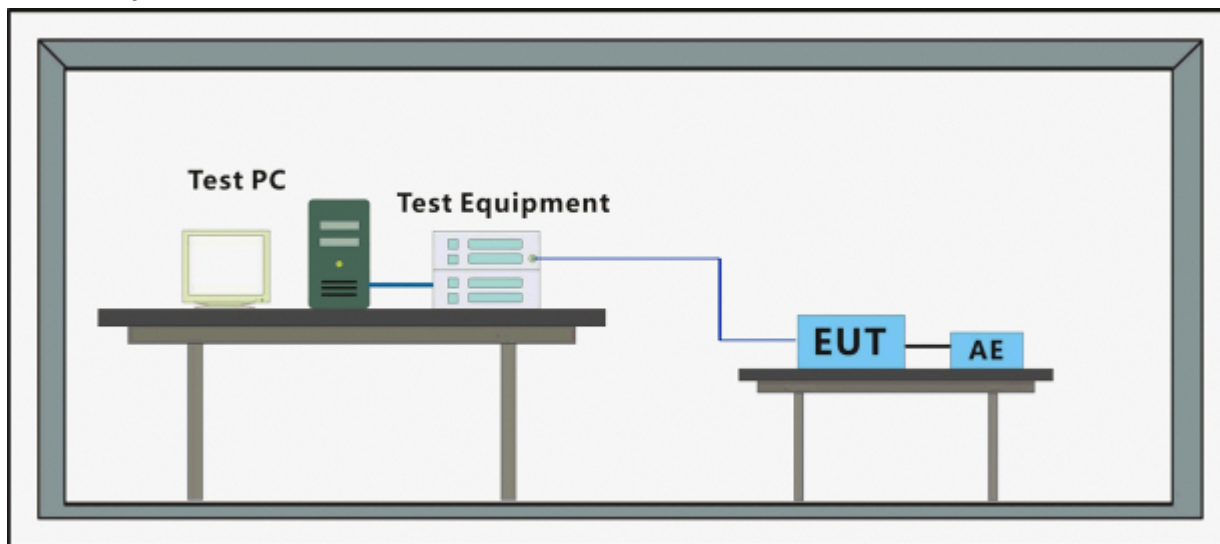
b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

The worst case for final test:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.5.2 Test Setup



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6.5.3 Measurement Data

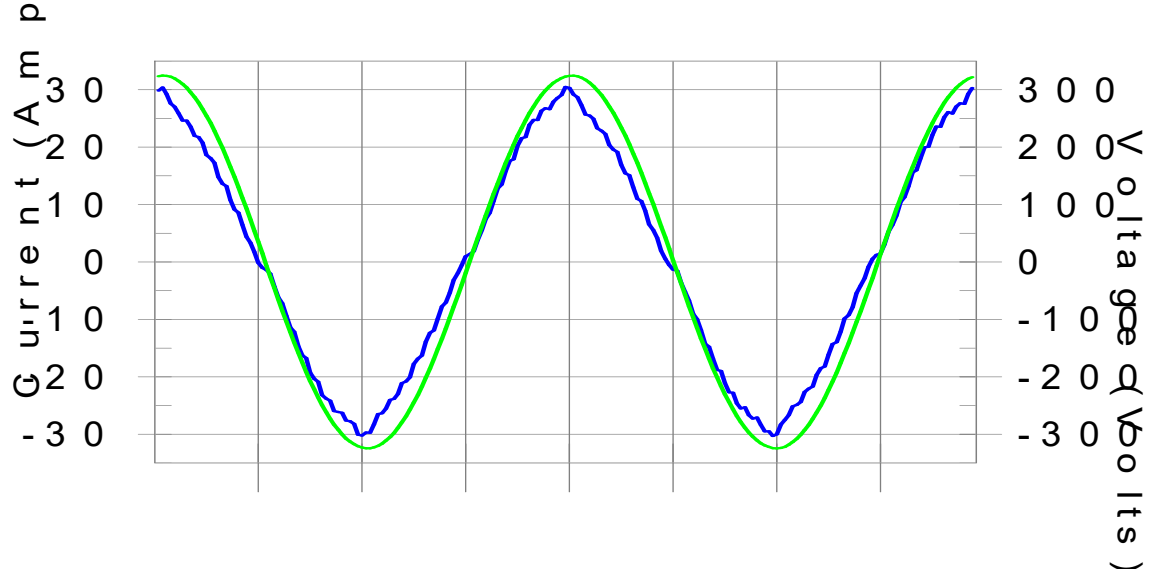
For Model A

Harmonics – Per EN 61000-3-12, Ed. 2.0(Run time)

Test Result: Pass

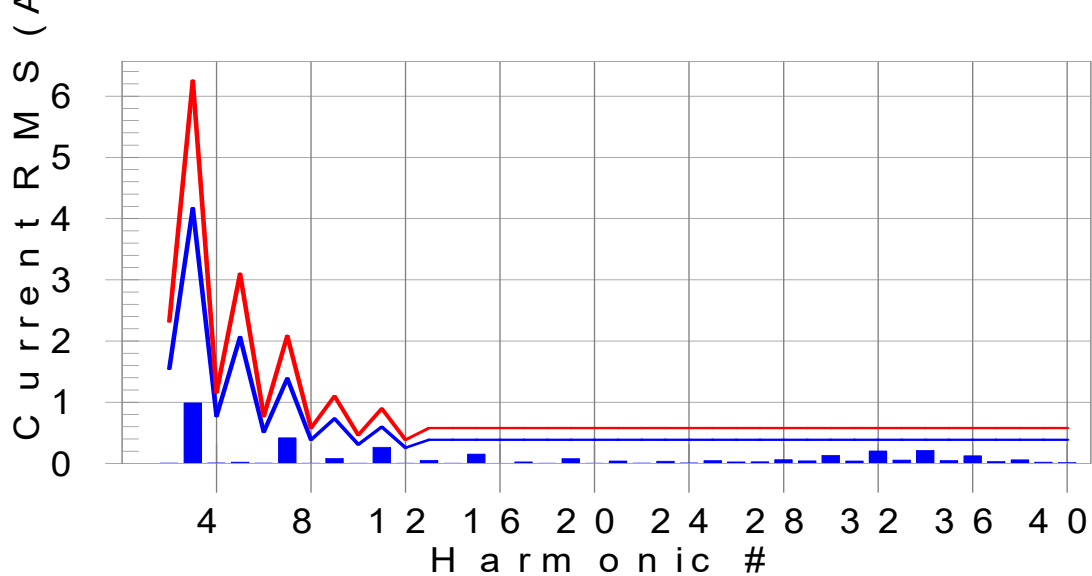
Source qualification: Normal

Current & voltage waveforms



Harmonics and Class 2 limit line

European Limits



Test result: Pass Worst harmonics H11-29.8% of 150% limit, H11-44.2% of 100% limit.



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Current Test Result Summary (Run time)

Test Result: Pass Measured Iref: 19.303(Amps) Source: Normal
 THC/Iref (%): 5.9 Limit (%): 23.0 PWHC/Iref (%): 9.1 PWHC Limit (%): 23.0

Highest parameter values during test:

V_RMS (Volts): 229.49 Frequency (Hz): 50.00
 I_Peak (Amps): 30.755 I_RMS (Amps): 19.493
 I_Fund (Amps): 19.266(avg) Crest Factor: 1.580
 Power (Watts): 4459 Power Factor: 0.995

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.544	0.4	0.009	2.316	0.4	Pass
3	0.989	4.169	23.7	1.001	6.254	16.0	Pass
4	0.009	0.772	1.2	0.011	1.158	1.0	Pass
5	0.021	2.065	1.0	0.026	3.098	0.8	Pass
6	0.006	0.515	1.2	0.007	0.772	0.9	Pass
7	0.418	1.390	30.0	0.425	2.085	20.4	Pass
8	0.005	0.386	1.3	0.006	0.579	1.1	Pass
9	0.081	0.733	11.1	0.087	1.100	7.9	Pass
10	0.004	0.309	N/A	0.005	0.463	N/A	Pass
11	0.264	0.598	44.2	0.268	0.898	29.8	Pass
12	0.004	0.257	N/A	0.005	0.386	N/A	Pass
13	0.051	0.386	13.1	0.053	0.579	9.2	Pass
14	0.004	N/A	N/A	0.005	N/A	N/A	N/A
15	0.154	N/A	N/A	0.155	N/A	N/A	N/A
16	0.003	N/A	N/A	0.004	N/A	N/A	N/A
17	0.025	N/A	N/A	0.027	N/A	N/A	N/A
18	0.004	N/A	N/A	0.005	N/A	N/A	N/A
19	0.079	N/A	N/A	0.081	N/A	N/A	N/A
20	0.004	N/A	N/A	0.006	N/A	N/A	N/A
21	0.040	N/A	N/A	0.042	N/A	N/A	N/A
22	0.007	N/A	N/A	0.008	N/A	N/A	N/A
23	0.037	N/A	N/A	0.039	N/A	N/A	N/A
24	0.008	N/A	N/A	0.011	N/A	N/A	N/A
25	0.046	N/A	N/A	0.048	N/A	N/A	N/A
26	0.026	N/A	N/A	0.028	N/A	N/A	N/A
27	0.027	N/A	N/A	0.033	N/A	N/A	N/A
28	0.062	N/A	N/A	0.065	N/A	N/A	N/A
29	0.043	N/A	N/A	0.062	N/A	N/A	N/A
30	0.133	N/A	N/A	0.140	N/A	N/A	N/A
31	0.041	N/A	N/A	0.101	N/A	N/A	N/A
32	0.205	N/A	N/A	0.214	N/A	N/A	N/A
33	0.055	N/A	N/A	0.151	N/A	N/A	N/A
34	0.214	N/A	N/A	0.224	N/A	N/A	N/A
35	0.048	N/A	N/A	0.162	N/A	N/A	N/A
36	0.126	N/A	N/A	0.131	N/A	N/A	N/A
37	0.031	N/A	N/A	0.092	N/A	N/A	N/A
38	0.059	N/A	N/A	0.062	N/A	N/A	N/A
39	0.021	N/A	N/A	0.047	N/A	N/A	N/A
40	0.015	N/A	N/A	0.024	N/A	N/A	N/A

Note: Measured I-ref was applied for this test.



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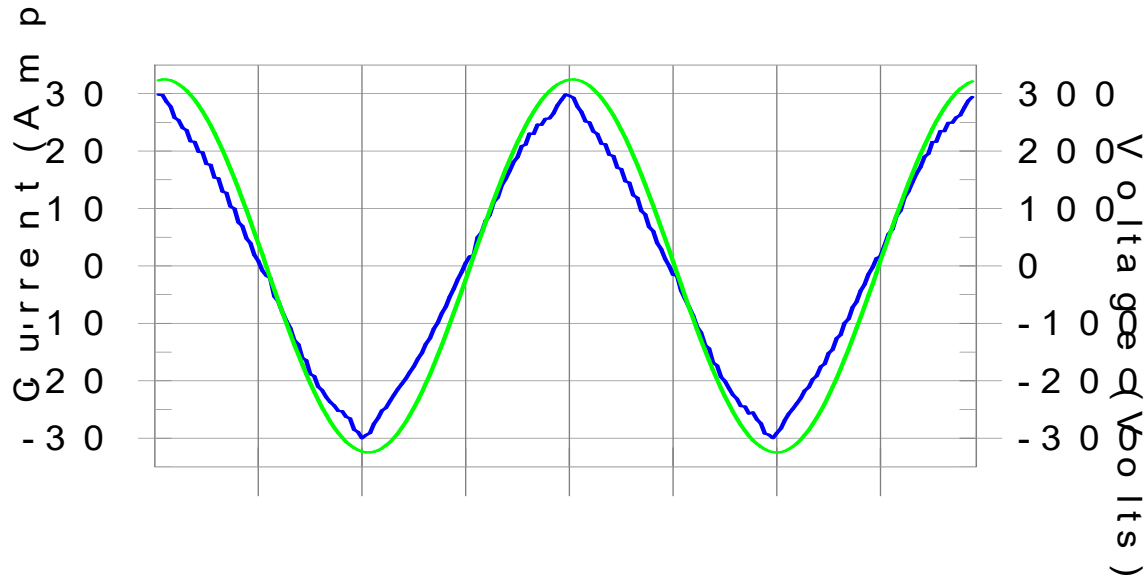
For Model B

Harmonics – Per EN 61000-3-12, Ed. 2.0(Run time)

Test Result: Pass

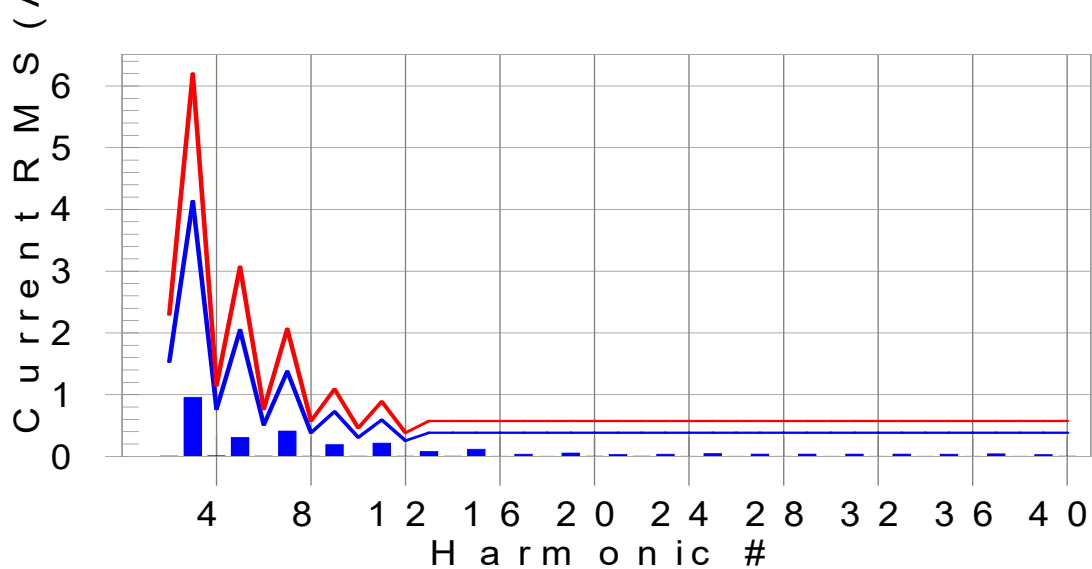
Source qualification: Normal

Current & voltage waveforms



Harmonics and Class 2 limit line

European Limits



Test result: Pass Worst harmonics H11-24.5% of 150% limit, H11-36.4% of 100% limit.



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Current Test Result Summary (Run time)

Test Result: Pass Measured Iref: 19.140(Amps) Source: Normal
 THC/Iref (%): 5.9 Limit (%): 23.0 PWHC/Iref (%): 0.0 PWHC Limit (%): 23.0

Highest parameter values during test:

V_RMS (Volts): 229.56 Frequency (Hz): 50.00
 I_Peak (Amps): 31.034 I_RMS (Amps): 19.501
 I_Fund (Amps): 19.104(avg) Crest Factor: 1.601
 Power (Watts): 4453 Power Factor: 0.994

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.007	1.531	0.4	0.009	2.297	0.4	Pass
3	0.958	4.134	23.2	0.973	6.201	15.7	Pass
4	0.011	0.766	1.5	0.014	1.148	1.2	Pass
5	0.309	2.048	15.1	0.318	3.072	10.4	Pass
6	0.006	0.510	1.2	0.008	0.766	1.0	Pass
7	0.411	1.378	29.9	0.416	2.067	20.1	Pass
8	0.005	0.383	N/A	0.006	0.574	N/A	Pass
9	0.192	0.727	26.4	0.196	1.091	18.0	Pass
10	0.004	0.306	N/A	0.005	0.459	N/A	Pass
11	0.216	0.593	36.4	0.218	0.890	24.5	Pass
12	0.004	0.255	N/A	0.005	0.383	N/A	Pass
13	0.082	0.383	21.3	0.085	0.574	14.8	Pass
14	0.004	N/A	N/A	0.006	N/A	N/A	N/A
15	0.116	N/A	N/A	0.119	N/A	N/A	N/A
16	0.003	N/A	N/A	0.004	N/A	N/A	N/A
17	0.037	N/A	N/A	0.038	N/A	N/A	N/A
18	0.003	N/A	N/A	0.004	N/A	N/A	N/A
19	0.055	N/A	N/A	0.059	N/A	N/A	N/A
20	0.004	N/A	N/A	0.005	N/A	N/A	N/A
21	0.032	N/A	N/A	0.034	N/A	N/A	N/A
22	0.004	N/A	N/A	0.004	N/A	N/A	N/A
23	0.036	N/A	N/A	0.039	N/A	N/A	N/A
24	0.003	N/A	N/A	0.004	N/A	N/A	N/A
25	0.047	N/A	N/A	0.049	N/A	N/A	N/A
26	0.003	N/A	N/A	0.003	N/A	N/A	N/A
27	0.039	N/A	N/A	0.041	N/A	N/A	N/A
28	0.003	N/A	N/A	0.004	N/A	N/A	N/A
29	0.038	N/A	N/A	0.040	N/A	N/A	N/A
30	0.002	N/A	N/A	0.003	N/A	N/A	N/A
31	0.038	N/A	N/A	0.039	N/A	N/A	N/A
32	0.003	N/A	N/A	0.004	N/A	N/A	N/A
33	0.038	N/A	N/A	0.039	N/A	N/A	N/A
34	0.002	N/A	N/A	0.003	N/A	N/A	N/A
35	0.036	N/A	N/A	0.038	N/A	N/A	N/A
36	0.003	N/A	N/A	0.004	N/A	N/A	N/A
37	0.042	N/A	N/A	0.043	N/A	N/A	N/A
38	0.003	N/A	N/A	0.004	N/A	N/A	N/A
39	0.030	N/A	N/A	0.032	N/A	N/A	N/A
40	0.004	N/A	N/A	0.006	N/A	N/A	N/A

Note: Measured I-ref was applied for this test.



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6.6 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-11:2000

Test Method: EN 61000-3-11:2000

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

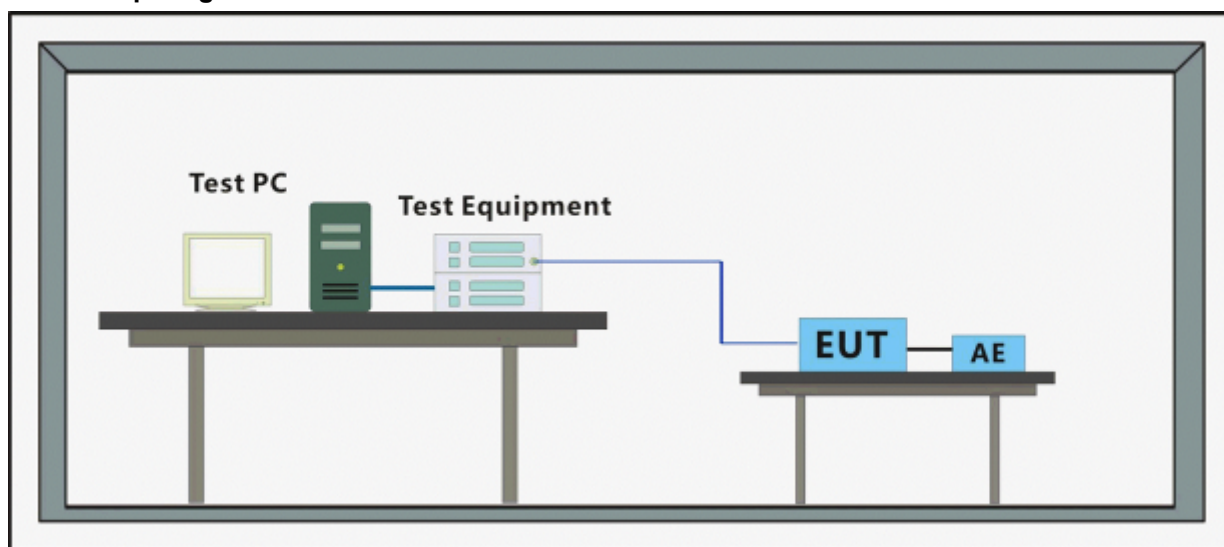
b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

The worst case for final test:

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.6.2 Test Setup Diagram



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6.6.3 Measurement Data

For Model A

Test Report ISMDPA

Report title:	ST2020082633
Standard used:	EN 61000-3-11 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)

Test Result	PASS
-------------	------

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.337	1.00	PASS
Plt	0.314	0.65	PASS
dc [%]	2.591	3.30	PASS
dmax [%]	2.737	6.00	PASS
dt [s]	0.000	0.50	PASS



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Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.333	1.00	PASS
dc [%]	2.426	3.30	PASS
dmax [%]	2.557	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.333	1.00	PASS
dc [%]	2.567	3.30	PASS
dmax [%]	2.714	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.337	1.00	PASS
dc [%]	2.591	3.30	PASS
dmax [%]	2.737	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.205	1.00	PASS
dc [%]	0.086	3.30	PASS
dmax [%]	1.010	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.331	1.00	PASS
dc [%]	2.524	3.30	PASS
dmax [%]	2.664	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.333	1.00	PASS
dc [%]	2.430	3.30	PASS
dmax [%]	2.568	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.311	1.00	PASS
dc [%]	1.983	3.30	PASS
dmax [%]	2.106	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.327	1.00	PASS
dc [%]	2.430	3.30	PASS
dmax [%]	2.564	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.300	1.00	PASS
dc [%]	1.939	3.30	PASS
dmax [%]	2.079	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.301	1.00	PASS
dc [%]	1.934	3.30	PASS
dmax [%]	2.051	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.306	1.00	PASS
dc [%]	1.977	3.30	PASS
dmax [%]	2.103	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.305	1.00	PASS
dc [%]	2.030	3.30	PASS
dmax [%]	2.156	6.00	PASS
dt [s]	0.000	0.50	PASS



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For Model B
Test Report

Report title:	ST2020082631
Standard used:	EN 61000-3-11 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)
Test Result	PASS

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.349	1.00	PASS
Plt	0.277	0.65	PASS
dc [%]	2.630	3.30	PASS
dmax [%]	2.769	6.00	PASS
dt [s]	0.000	0.50	PASS



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Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.272	1.00	PASS
dc [%]	1.337	3.30	PASS
dmax [%]	1.476	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.328	1.00	PASS
dc [%]	2.368	3.30	PASS
dmax [%]	2.497	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.129	1.00	PASS
dc [%]	0.078	3.30	PASS
dmax [%]	1.026	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.349	1.00	PASS
dc [%]	2.630	3.30	PASS
dmax [%]	2.769	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.126	1.00	PASS
dc [%]	0.069	3.30	PASS
dmax [%]	1.021	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.319	1.00	PASS
dc [%]	2.245	3.30	PASS
dmax [%]	2.383	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.321	1.00	PASS
dc [%]	2.217	3.30	PASS
dmax [%]	2.347	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.290	1.00	PASS
dc [%]	2.214	3.30	PASS
dmax [%]	2.338	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.210	1.00	PASS
dc [%]	0.089	3.30	PASS
dmax [%]	0.972	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.321	1.00	PASS
dc [%]	2.267	3.30	PASS
dmax [%]	2.393	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.270	1.00	PASS
dc [%]	2.031	3.30	PASS
dmax [%]	2.173	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.028	1.00	PASS
dc [%]	0.023	3.30	PASS
dmax [%]	0.066	6.00	PASS
dt [s]	0.000	0.50	PASS



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- Criterion A** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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7.2 Electrostatic Discharge

Test Requirement:	EN 55014-2:2015
Test Method:	EN 61000-4-2:2009
Performance Criterion:	B
Discharge Impedance:	330Ω/150pF
Number of Discharge:	Minimum 10 times at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 28 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

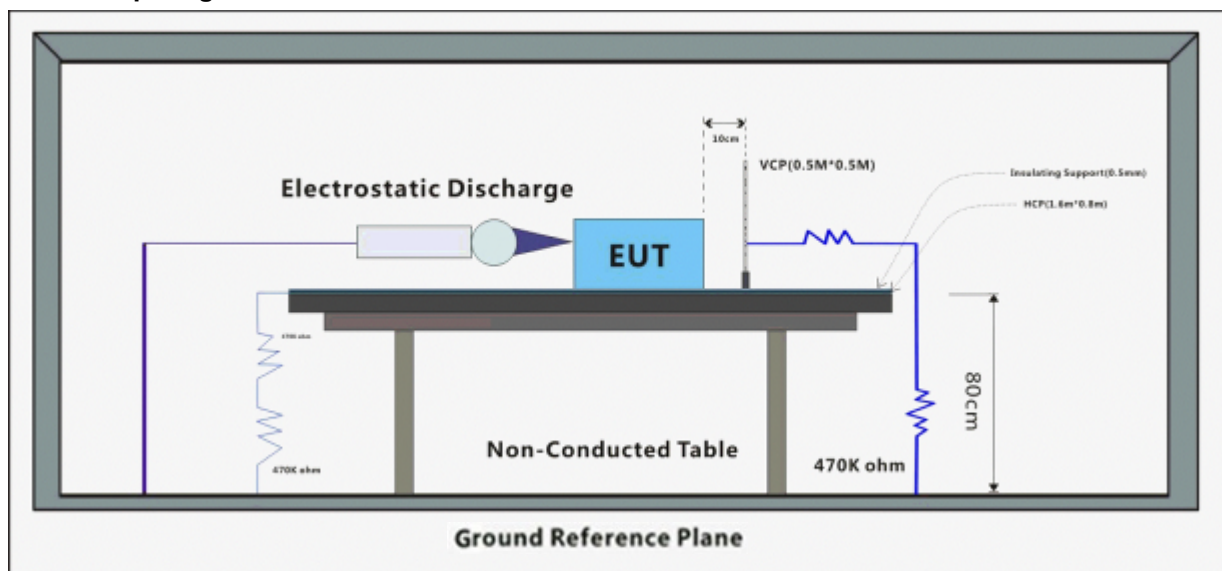
a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

d: Test in idle mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results:

For both models:

Observations: Test Point:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	8	+	1	A
Air Discharge	8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	N/A
Horizontal Coupling	4	-	3	N/A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

A: No degradation in the performance of the EUT was observed.

N/A: Not Applicable (not required by Standard).



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7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

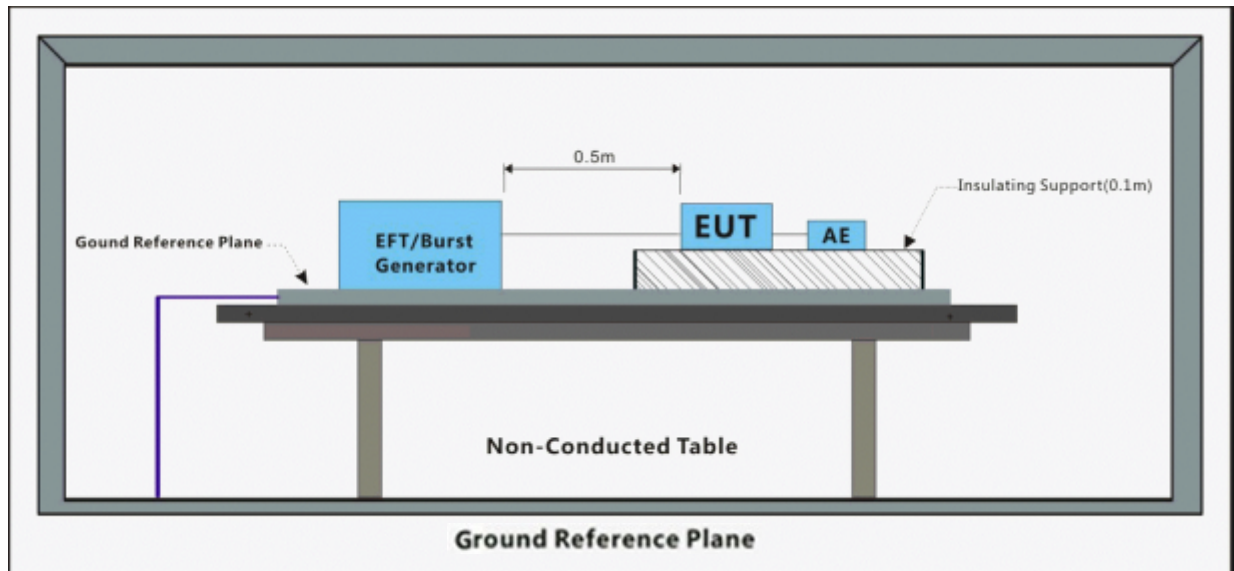
a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

d: Test in idle mode.

7.3.2 Test Setup Diagram



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7.3.3 Test Results:

For both models:

Test Line	Level (kV)	Polarity	Direct/Coupling	Result / Observations
AC power port	1	+	Direct	A
AC power port	1	-	Direct	A
Singal lines	0.5	+	Coupling	A
Singal lines	0.5	-	Coupling	A

Results:

A: No degradation in the performance of the EUT was observed.



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7.4 Surge at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-5:2014
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 27 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

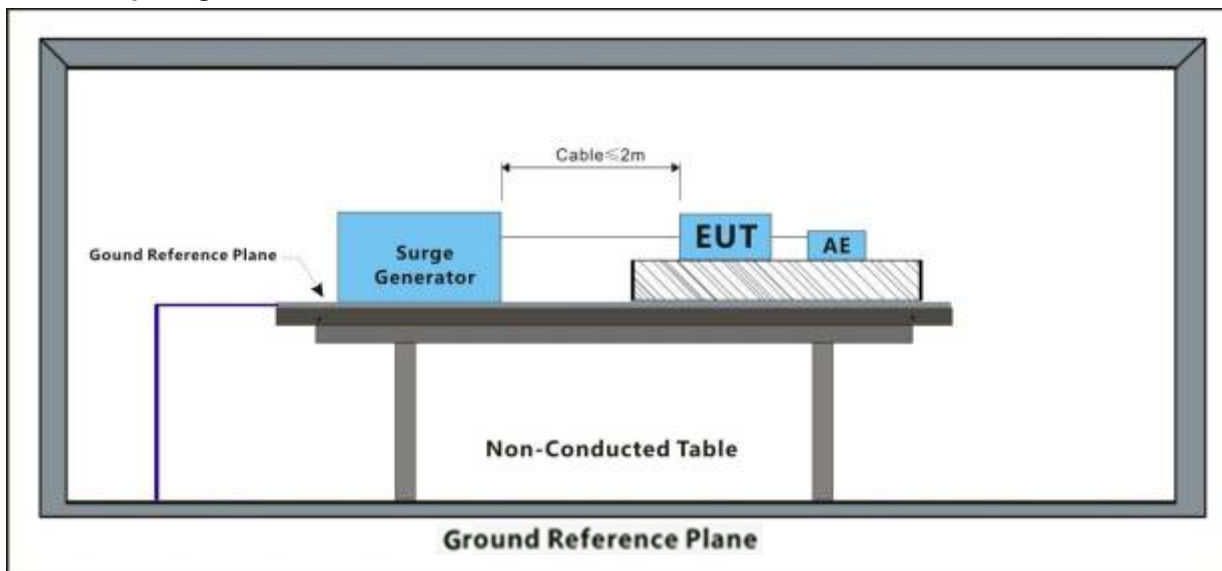
a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

d: Test in idle mode.

7.4.2 Test Setup Diagram



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7.4.3 Test Results:

For both models:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A
L-PE	2	+	90°	A
L-PE	2	-	270°	A
N-PE	2	+	90°	A
N-PE	2	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.



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7.5 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 56 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

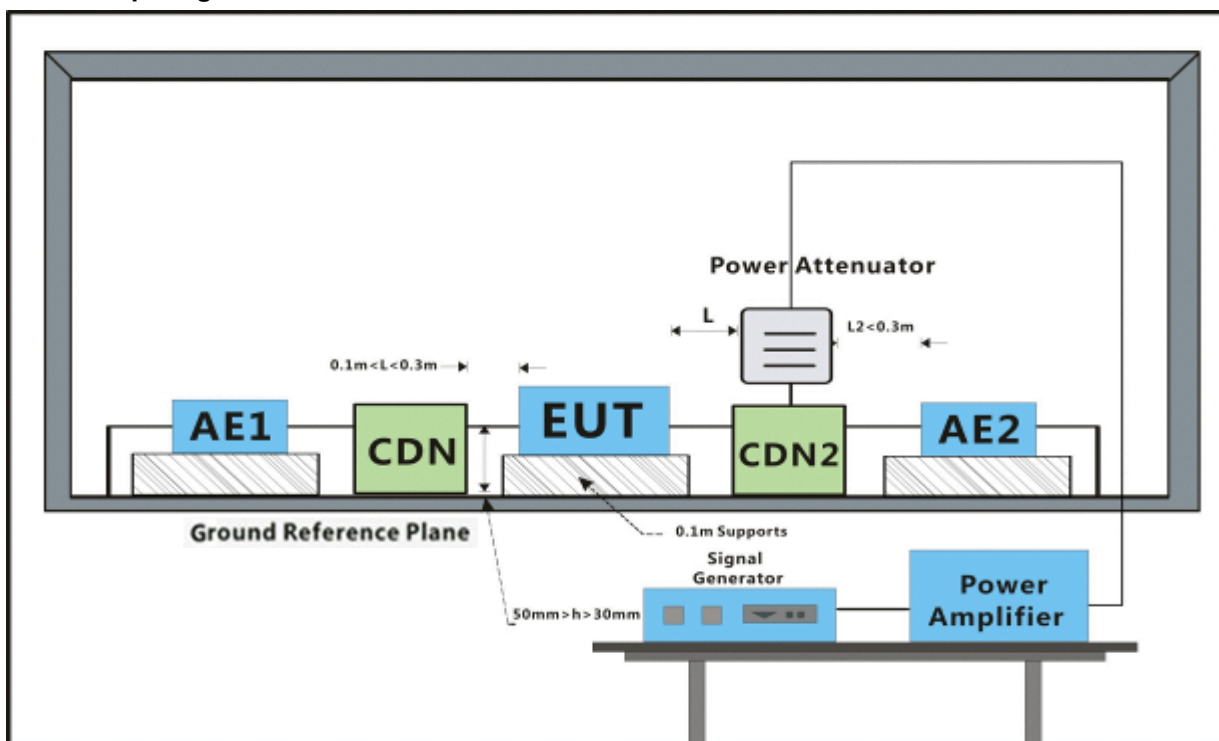
a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in fan mode, keep swinging at high speed.

d: Test in idle mode.

7.5.2 Test Setup Diagram



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7.5.3 Test Results:

For both models:

Cable port	Level (Vrms)	Direct/Coupling	Dwell time	Result / Observations
AC power port	3	Direct	2s	A
Singal Lines	1	Coupling	2s	A

Results:

A: No degradation in the performance of the EUT was observed.



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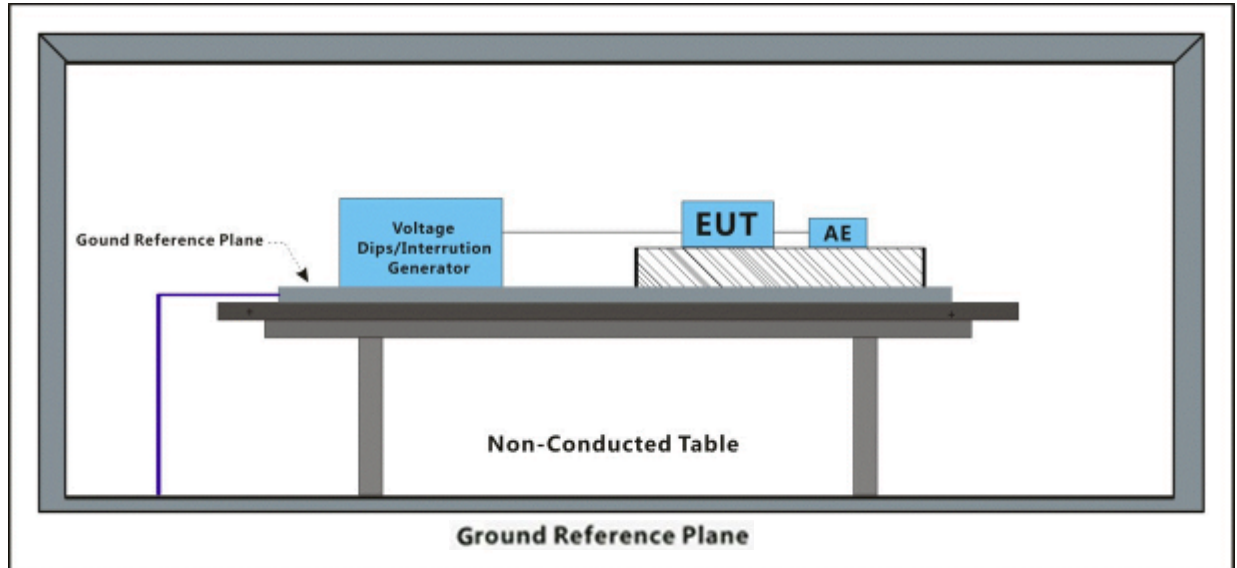
7.6 Voltage Dips and Interruptions

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-11:2004
 Performance Criterion:
 For 50Hz 0% of UT (Supply Voltage) for 0.5 Periods: C;
 40% of UT for 10 Periods: C;
 70% of UT for 25 Periods: C
 No. of Dips / Interruptions: 3 per Level
 Time between dropout 10s

7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 26 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.
 Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.
 c: Test in fan mode, keep swinging at high speed.
 d: Test in idle mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results:

For both models:

For 50Hz

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Periods	3	A
0	180°	0.5 Periods	3	A
40	0°	10 Periods	3	B
40	180°	10 Periods	3	B
70	0°	25 Periods	3	A
70	180°	25 Periods	3	A

Results:

A: No degradation in the performance of the EUT was observed.

B: During the test, the EUT stop working, it could recover automatically.



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8 Photographs

8.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz) Test Setup

For Model A



For Model B



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8.2 Conducted Disturbance at Load Terminals and Additional Terminals Test Setup

For Model A



For Model B



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8.3 Disturbance Power Test Setup

For Model A



For Model B



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8.4 Discontinuous Disturbance (150kHz-30MHz) Test Setup

For Model A



For Model B



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8.5 Harmonic Current Emission Test Setup

For Model A



For Model B



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8.6 Voltage Fluctuations and Flicker Test Setup

For Model A



For Model B



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8.7 Electrostatic Discharge Test Setup

For Model A



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For Model B



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8.8 Electrical Fast Transients/Burst at Power Port Test Setup

For Model A

Power port:



Signal lines



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For Model B

Power port:



Signal lines



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8.9 Surge at Power Port Test Setup

For Model A



For Model B



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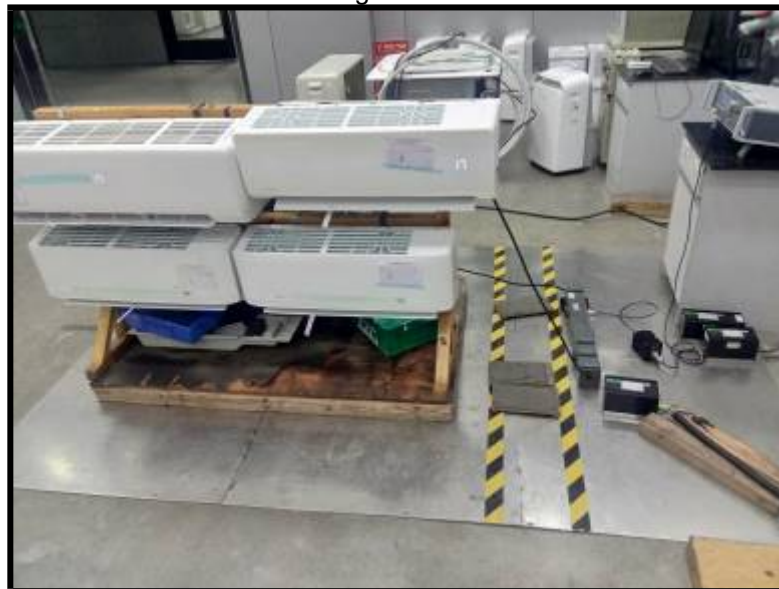
8.10 Conducted Immunity at Power Port (150kHz-230MHz) Test Setup

For Model A

Power port:



Signal lines



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For Model B

Power port:



Signal lines



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8.11 Voltage Dips and Interruptions Test Setup

For Model A



For Model B



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8.12 EUT Constructional Details

**For Outdoor unit
M50E-42HFN8-Q**



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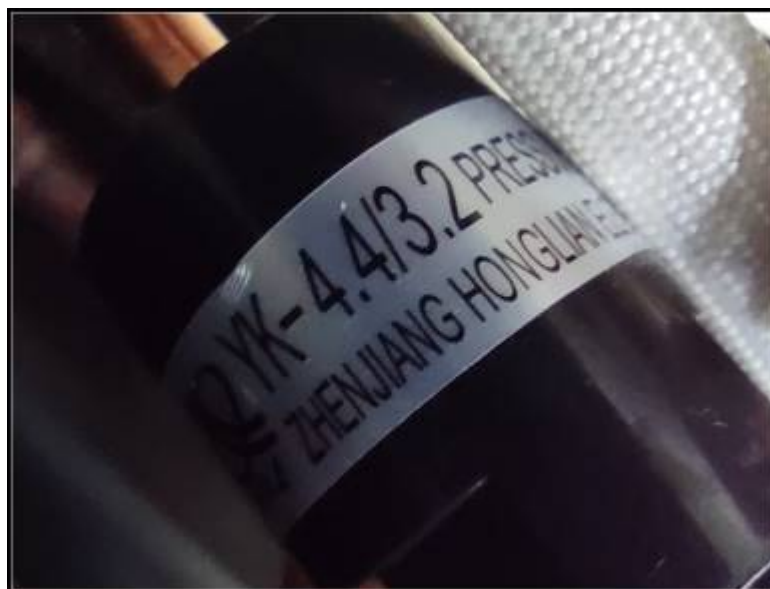


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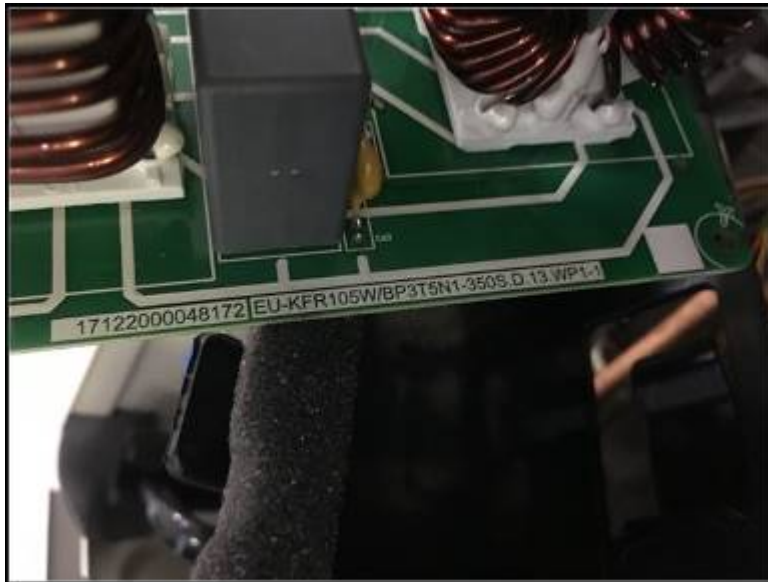
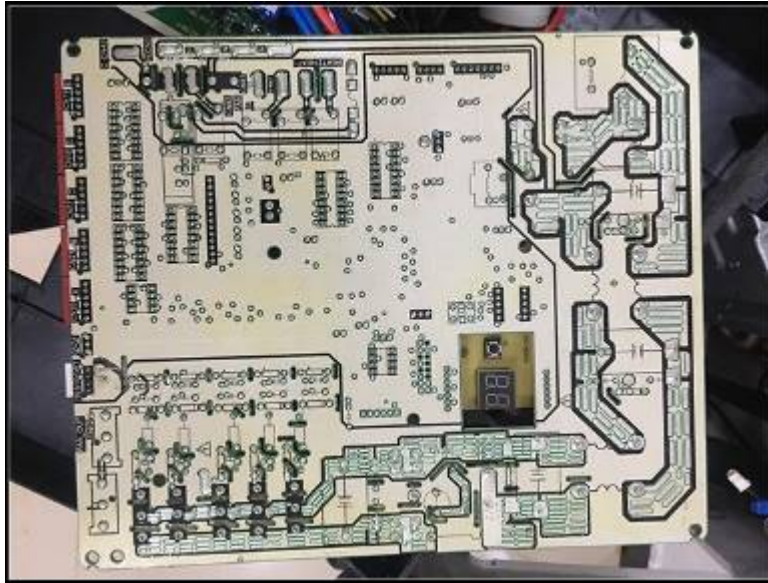


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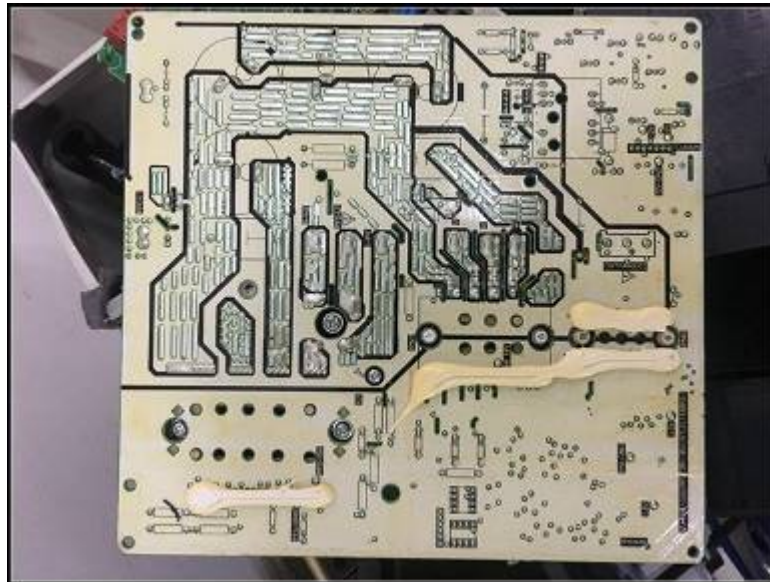
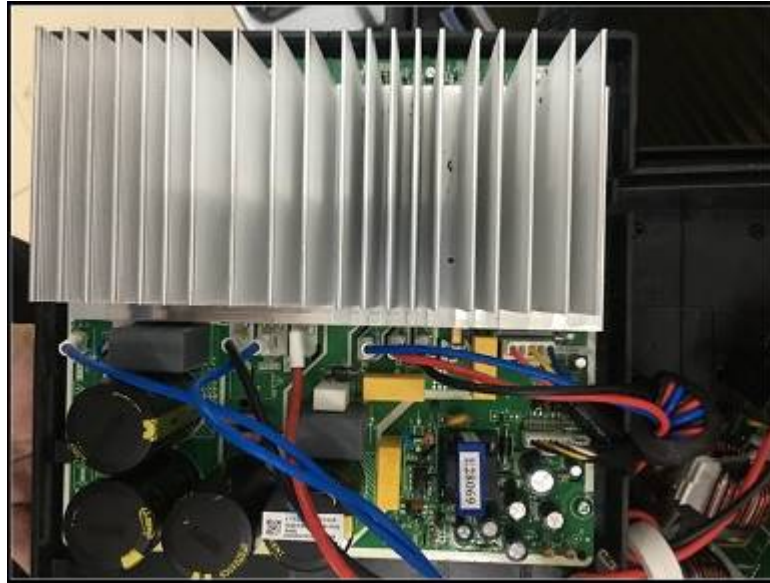
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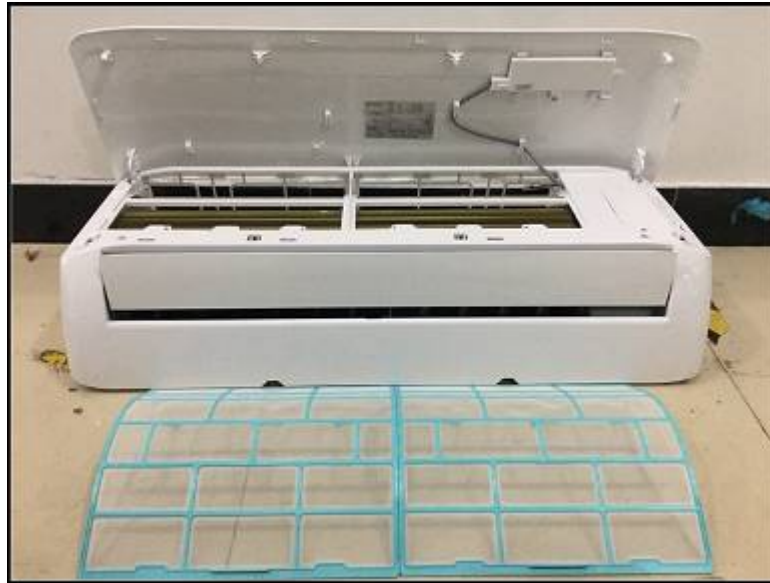
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For Indoor unit
MSABBU-12HRFN8-QRD6GW

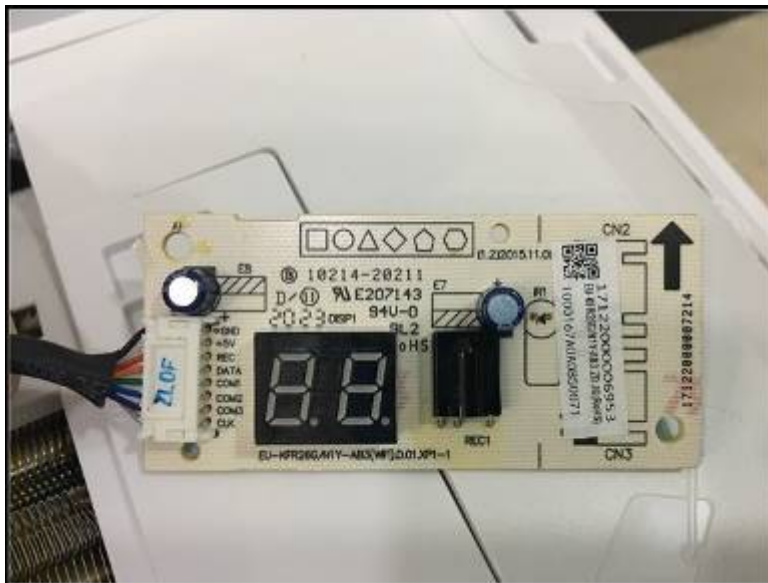


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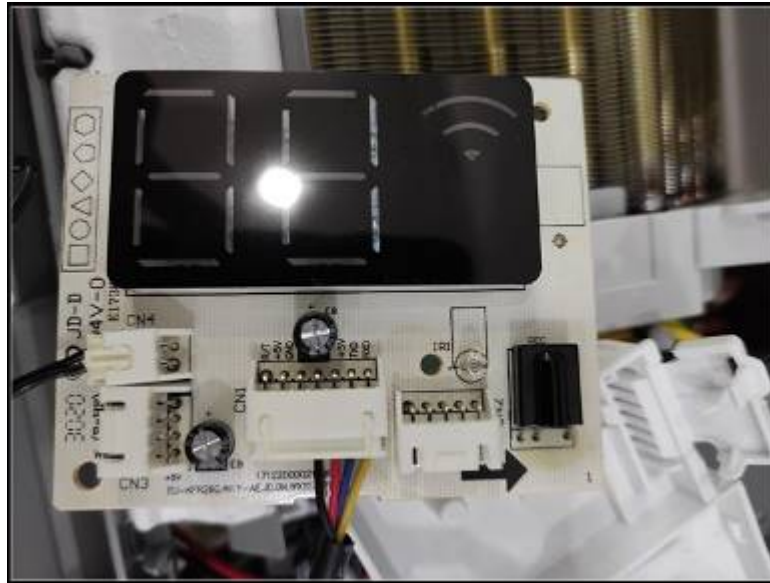
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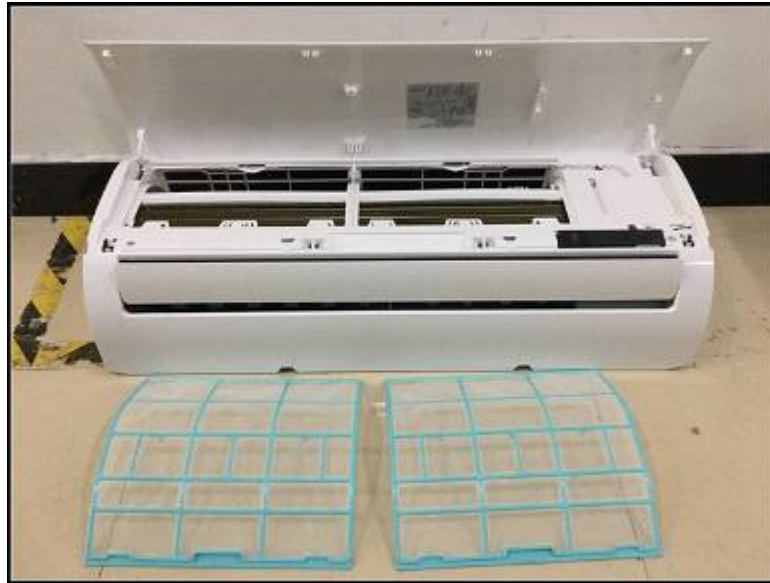
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For Model MSAFBU-12HRDNX-QRD0FGW



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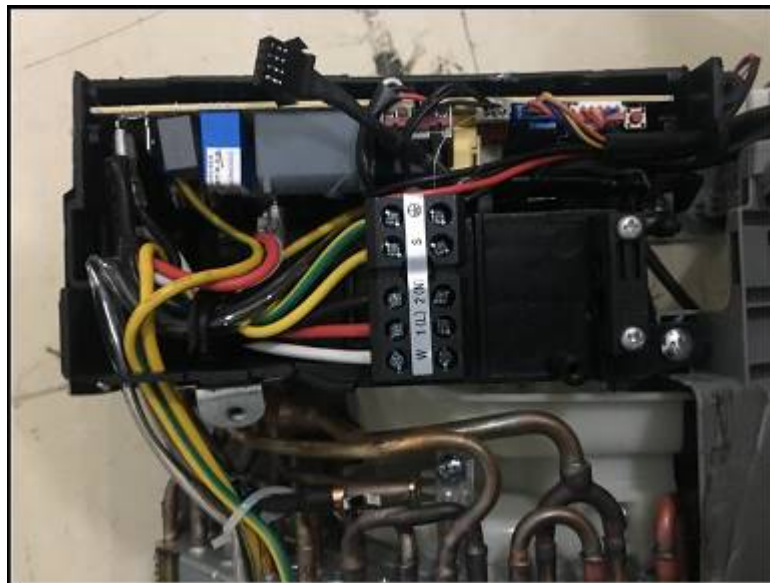
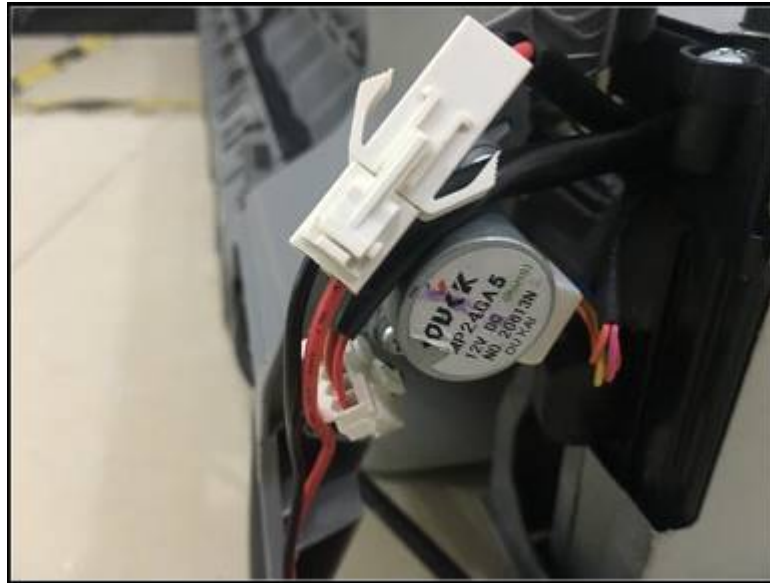


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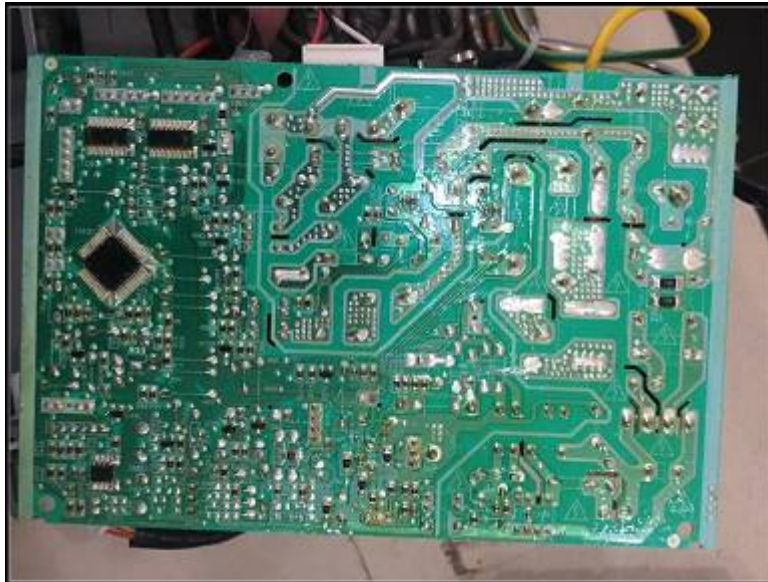
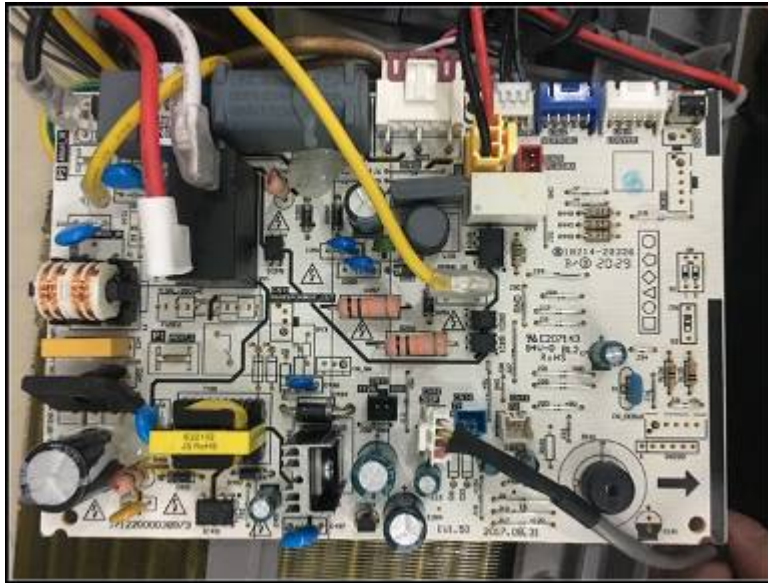
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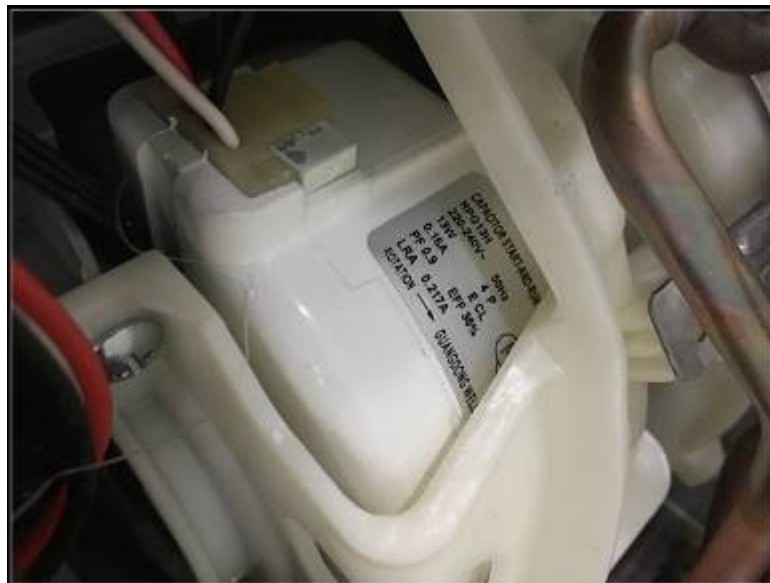
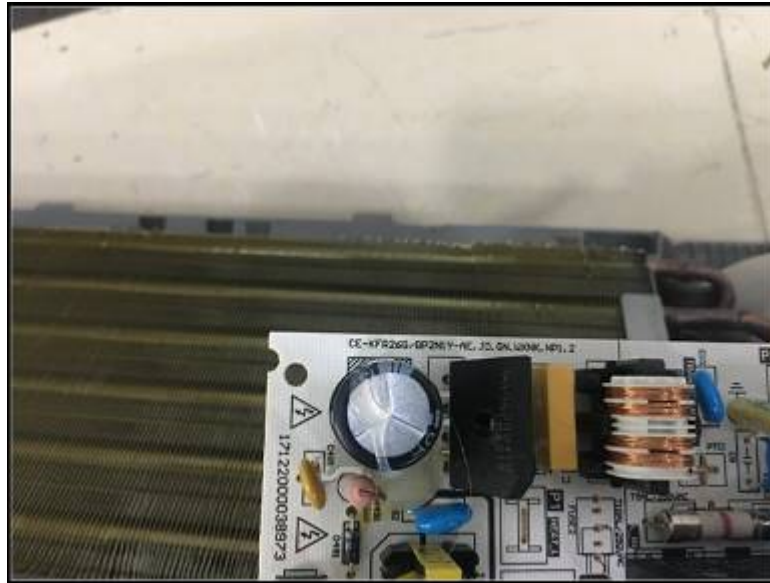
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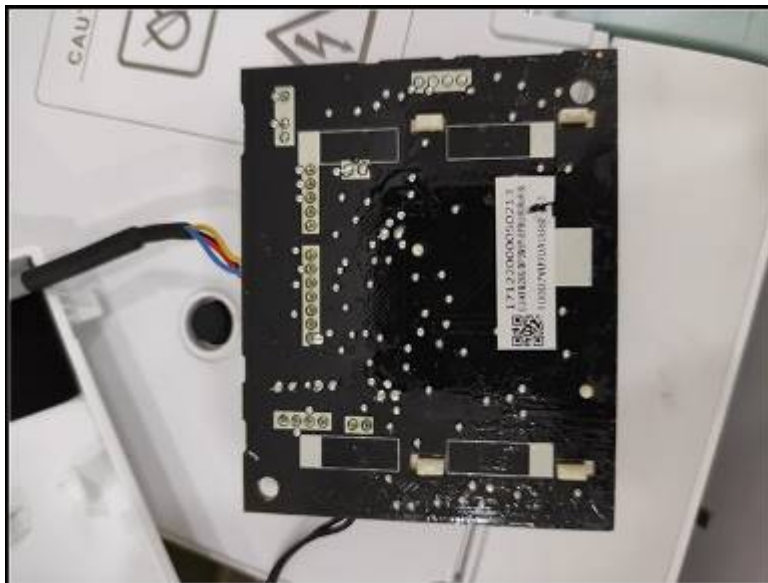
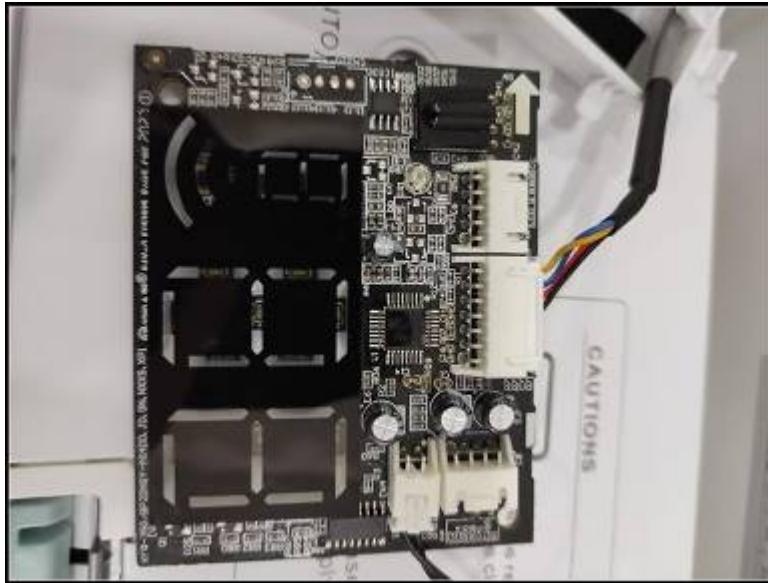
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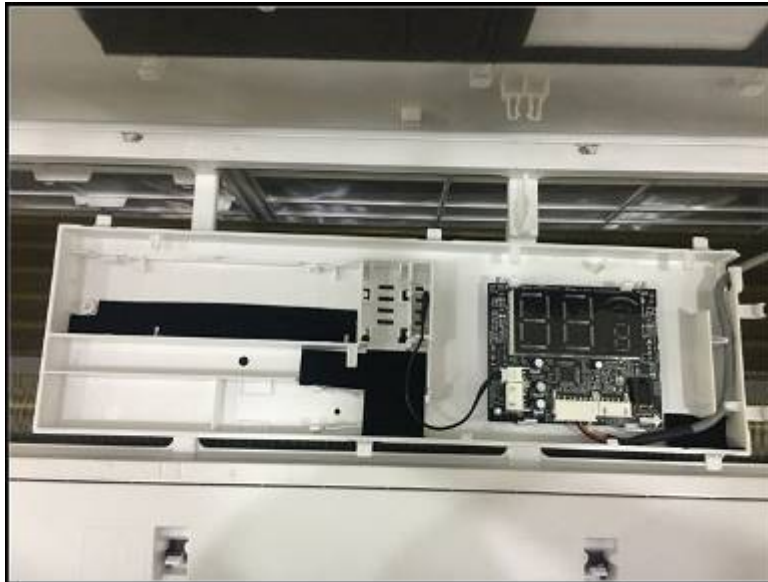
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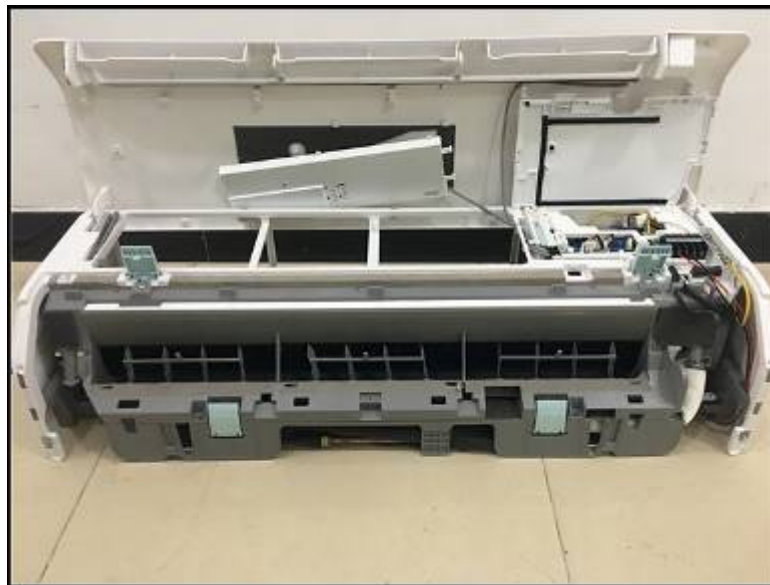


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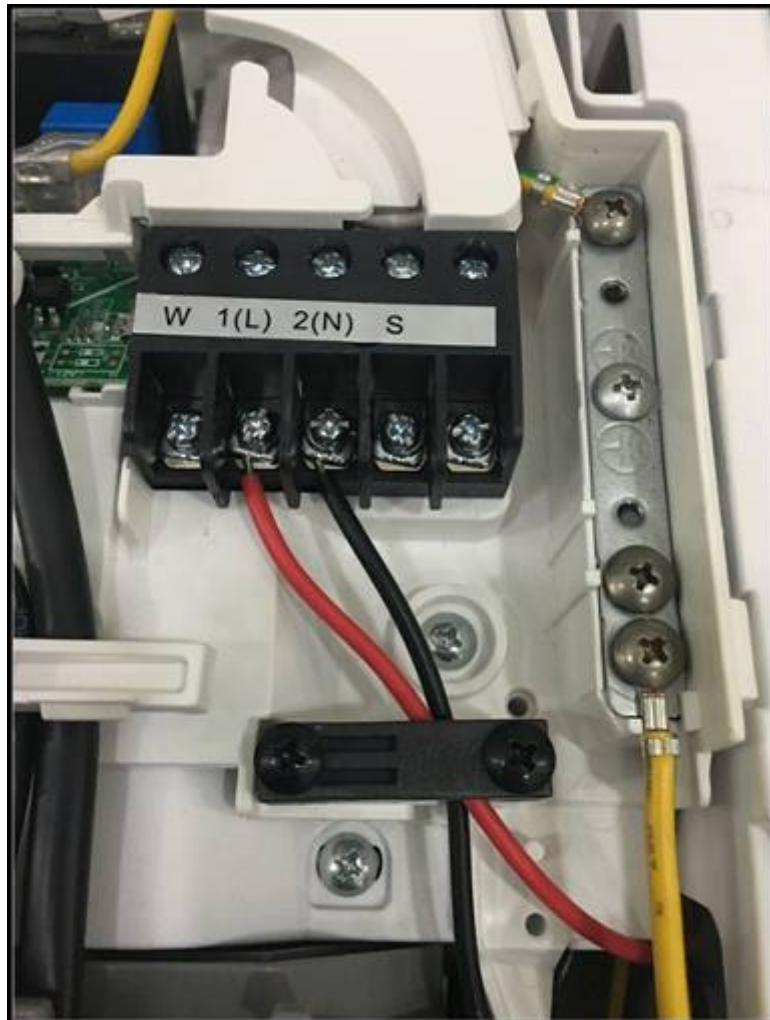
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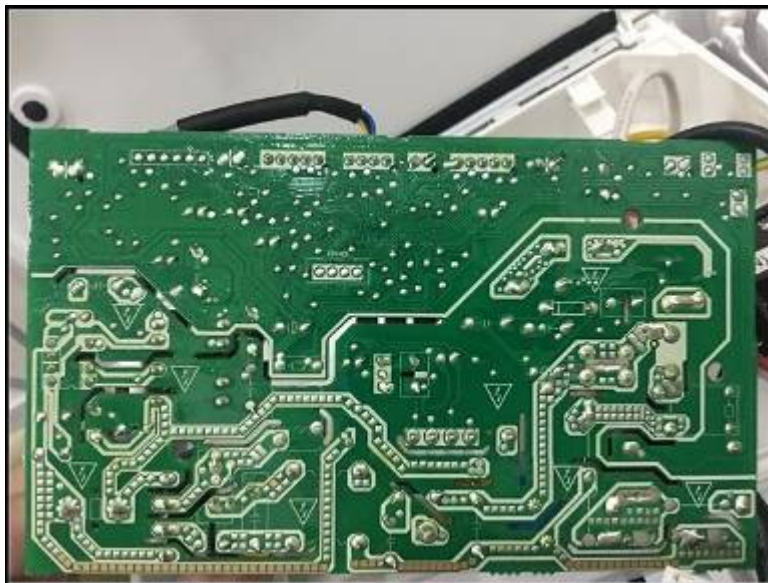


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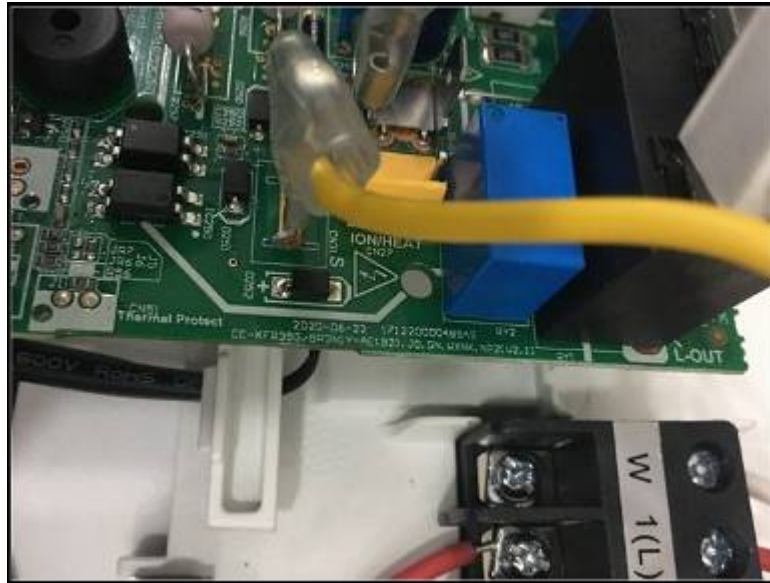


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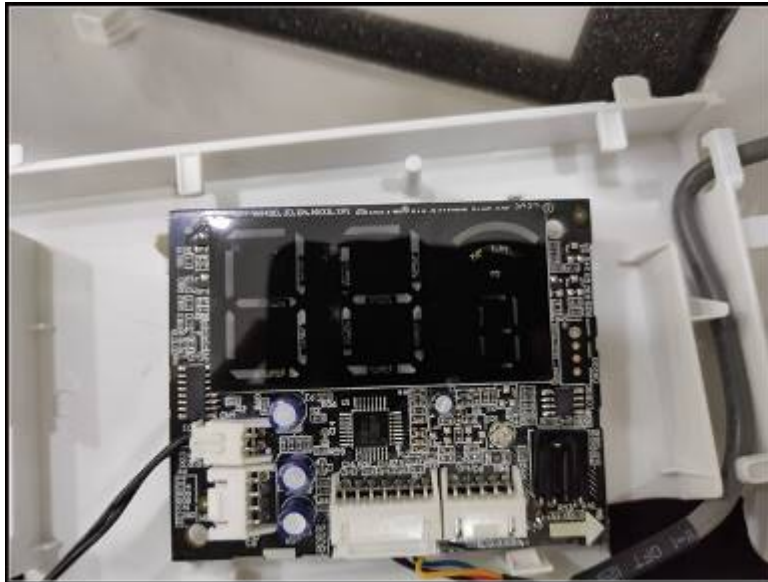
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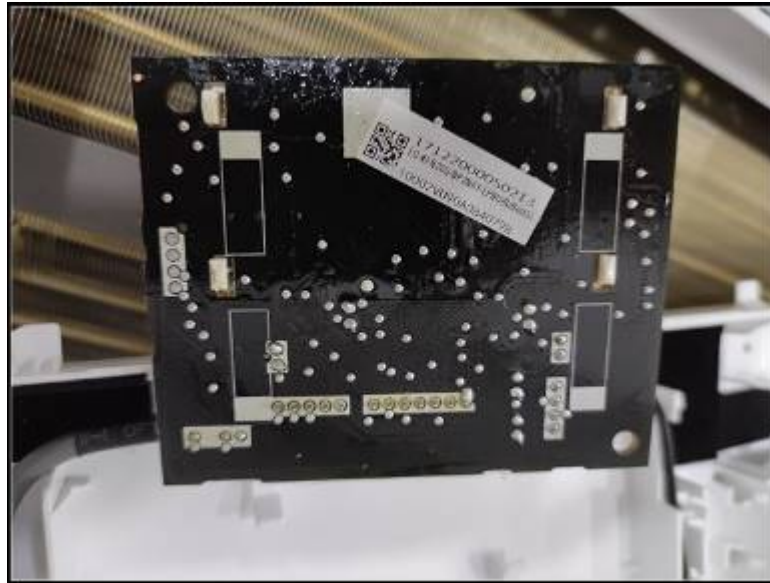


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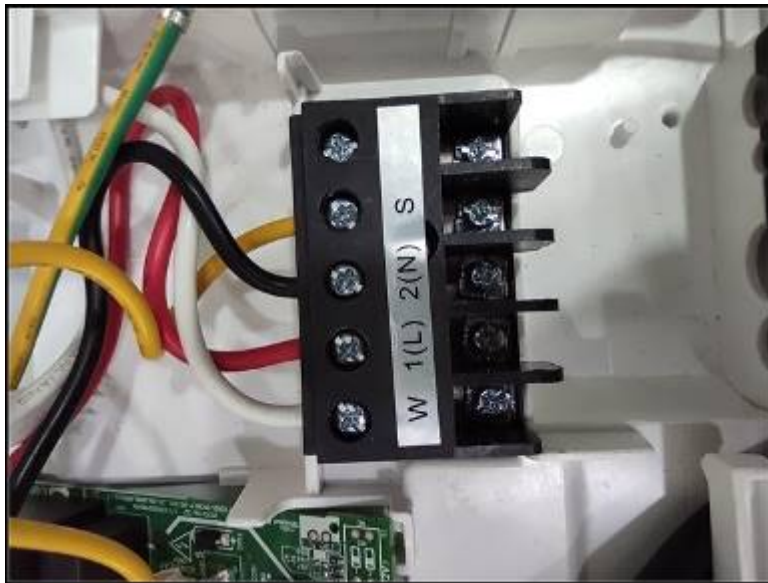
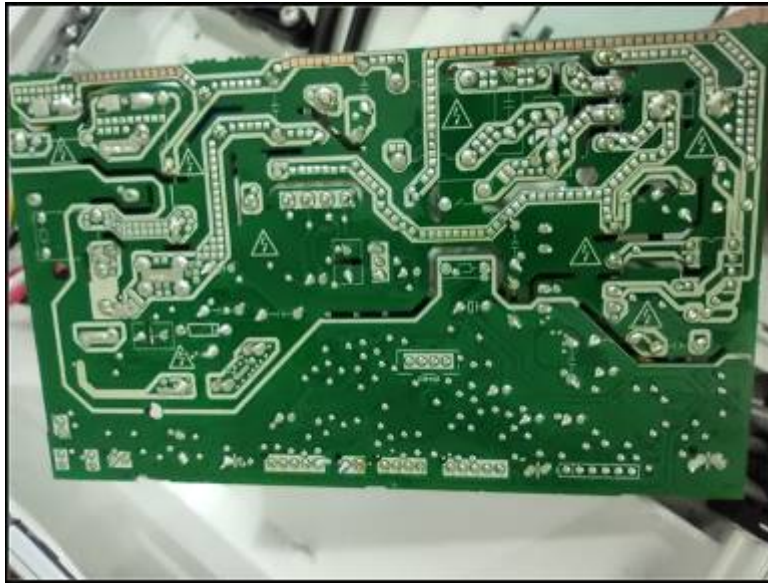
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--End of Report--



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