

TEST REPORT

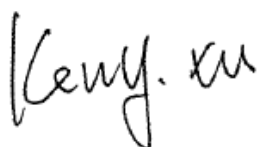
Application No.: SZEM1906015351CR
Applicant: SZ DJI TECHNOLOGY CO., LTD
Address of Applicant: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, 518057, China
Manufacturer: SZ DJI TECHNOLOGY CO., LTD
Address of Manufacturer: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, 518057, China
Factory: DJI BW Technology Company Ltd.
Address of Factory: No.1,2,7,9 Building, Baiwang Creative Factory, No.1051 of Songbai Road,
 Xili Street, Nanshan District, Shenzhen City, Guangdong Province,
 P.R.China

Equipment Under Test (EUT):

EUT Name: P4 Multispectral
Model No.: WM336
Trade mark: DJI
FCC ID: SS3-WM3361905
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2019-06-18
Date of Test: 2019-07-03 to 2019-07-05
Date of Issue: 2019-07-11

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.





Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-07-11		Original

Authorized for issue by:			
			
		<hr/> Powell Bao /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 Section 6.9.3	N/A	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 Section 12.7.3	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 Section 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

N/A: Not applicable



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	8
4.3 MEASUREMENT UNCERTAINTY	8
4.4 TEST LOCATION.....	9
4.5 TEST FACILITY.....	9
4.6 DEVIATION FROM STANDARDS.....	9
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	9
5 EQUIPMENT LIST.....	10
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	14
6.1 ANTENNA REQUIREMENT	14
6.1.1 Test Requirement:	14
6.1.2 Conclusion	14
6.2 TRANSMISSION IN THE ABSENCE OF DATA.....	15
6.2.1 Test Requirement:	15
6.2.2 Conclusion	15
7 RADIO SPECTRUM MATTER TEST RESULTS.....	16
7.1 99% BANDWIDTH	16
7.1.1 E.U.T. Operation	16
7.1.2 Test Setup Diagram.....	16
7.1.3 Measurement Procedure and Data.....	16
7.2 MINIMUM 6 dB BANDWIDTH (5.725-5.85 GHZ BAND)	17
7.2.1 E.U.T. Operation	17
7.2.2 Test Setup Diagram.....	17
7.2.3 Measurement Procedure and Data.....	17
7.3 MAXIMUM CONDUCTED OUTPUT POWER.....	18
7.3.1 E.U.T. Operation	19
7.3.2 Test Setup Diagram.....	19
7.3.3 Measurement Procedure and Data.....	19
7.4 PEAK POWER SPECTRUM DENSITY.....	20
7.4.1 E.U.T. Operation	21
7.4.2 Test Setup Diagram.....	21
7.4.3 Measurement Procedure and Data.....	21
7.5 RADIATED EMISSIONS.....	22
7.5.1 E.U.T. Operation	23
7.5.2 Test Setup Diagram.....	23
7.5.3 Measurement Procedure and Data.....	24
7.6 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	39



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7.6.1	<i>E.U.T. Operation</i>	40
7.6.2	<i>Test Setup Diagram</i>	40
7.6.3	<i>Measurement Procedure and Data</i>	41
7.7	FREQUENCY STABILITY.....	50
8	PHOTOGRAPHS	51
8.1	TEST SETUP.....	51
8.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....	51
9	APPENDIX	52
9.1	APPENDIX 15.407.....	52
9.1.1	<i>Appendix 15.407-1.4M</i>	52
9.1.2	<i>Appendix 15.407-10M</i>	72-91



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 15.2V From Battery
Operation Frequency:	1.4M BW: 5728.5MHz ~ 5846.5MHz; 10M BW: 5730.5MHz ~ 5844.5MHz;
Modulation Type:	OFDM
Number of Channels:	1.4M BW: 60; 10M BW: 115;
Channel Spacing:	1.4M BW: 2MHz; 10M BW: 1MHz;
Antenna Type:	Dipole Antenna
Antenna Gain:	4.6dBi

Channel List for 1.4MHz BW							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5728.5	16	5758.5	31	5788.5	46	5818.5
2	5730.5	17	5760.5	32	5790.5	47	5820.5
3	5732.5	18	5762.5	33	5792.5	48	5822.5
4	5734.5	19	5764.5	34	5794.5	49	5824.5
5	5736.5	20	5766.5	35	5796.5	50	5826.5
6	5738.5	21	5768.5	36	5798.5	51	5828.5
7	5740.5	22	5770.5	37	5800.5	52	5830.5
8	5742.5	23	5772.5	38	5802.5	53	5832.5
9	5744.5	24	5774.5	39	5804.5	54	5834.5
10	5746.5	25	5776.5	40	5806.5	55	5836.5
11	5748.5	26	5778.5	41	5808.5	56	5838.5
12	5750.5	27	5780.5	42	5810.5	57	5840.5
13	5752.5	28	5782.5	43	5812.5	58	5842.5
14	5754.5	29	5784.5	44	5814.5	59	5844.5
15	5756.5	30	5786.5	45	5816.5	60	5846.5

Note: The highlight frequencies are chosen to do all of the test.



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Channel List for 10MHz BW							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.5	30	5759.5	59	5788.5	88	5817.5
2	5731.5	31	5760.5	60	5789.5	89	5818.5
3	5732.5	32	5761.5	61	5790.5	90	5819.5
4	5733.5	33	5762.5	62	5791.5	91	5820.5
5	5734.5	34	5763.5	63	5792.5	92	5821.5
6	5735.5	35	5764.5	64	5793.5	93	5822.5
7	5736.5	36	5765.5	65	5794.5	94	5823.5
8	5737.5	37	5766.5	66	5795.5	95	5824.5
9	5738.5	38	5767.5	67	5796.5	96	5825.5
10	5739.5	39	5768.5	68	5797.5	97	5826.5
11	5740.5	40	5769.5	69	5798.5	98	5827.5
12	5741.5	41	5770.5	70	5799.5	99	5828.5
13	5742.5	42	5771.5	71	5800.5	100	5829.5
14	5743.5	43	5772.5	72	5801.5	101	5830.5
15	5744.5	44	5773.5	73	5802.5	102	5831.5
16	5745.5	45	5774.5	74	5803.5	103	5832.5
17	5746.5	46	5775.5	75	5804.5	104	5833.5
18	5747.5	47	5776.5	76	5805.5	105	5834.5
19	5748.5	48	5777.5	77	5806.5	106	5835.5
20	5749.5	49	5778.5	78	5807.5	107	5836.5
21	5750.5	50	5779.5	79	5808.5	108	5837.5
22	5751.5	51	5780.5	80	5809.5	109	5838.5
23	5752.5	52	5781.5	81	5810.5	110	5839.5
24	5753.5	53	5782.5	82	5811.5	111	5840.5
25	5754.5	54	5783.5	83	5812.5	112	5841.5
26	5755.5	55	5784.5	84	5813.5	113	5842.5
27	5756.5	56	5785.5	85	5814.5	114	5843.5
28	5757.5	57	5786.5	86	5815.5	115	5844.5
29	5758.5	58	5787.5	87	5816.5		

Note: The highlight frequencies are chosen to do all of the test.



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4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12



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DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
2	EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
4	Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12



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5	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
6	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
7	Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
8	Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
2	MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
4	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
5	Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
6	Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.6dBi.

Antenna location: Refer to Appendix(Internal photos)



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WiFi chip (le1000) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



7 Radio Spectrum Matter Test Results

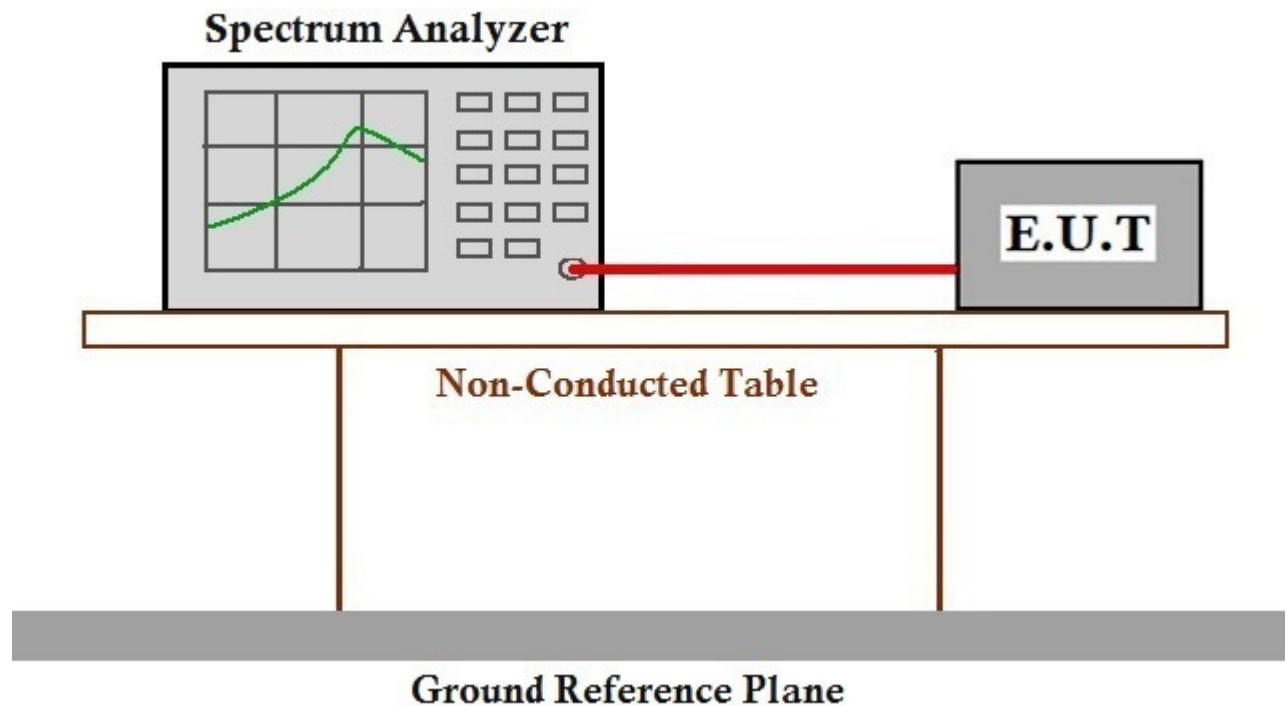
7.1 99% Bandwidth

Test Requirement N/A
 Test Method: ANSI C63.10 Section 6.9.3

7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.4 °C Humidity: 42.2 % RH Atmospheric Pressure: 1000 mbar
 Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



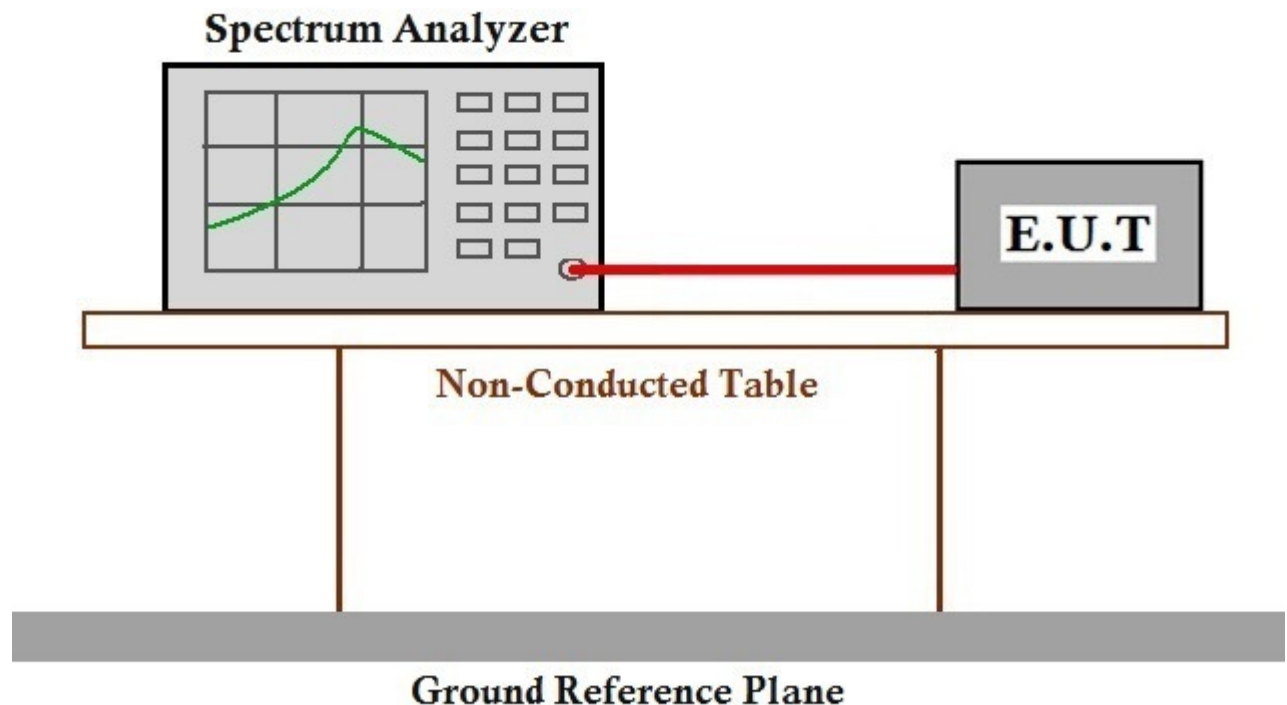
7.2 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e);
 Test Method: KDB 789033 D02 II C 2
 Limit: ≥ 500 kHz

7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.4 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar
 Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



7.3 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: ANSI C63.10 Section 12.3
Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.



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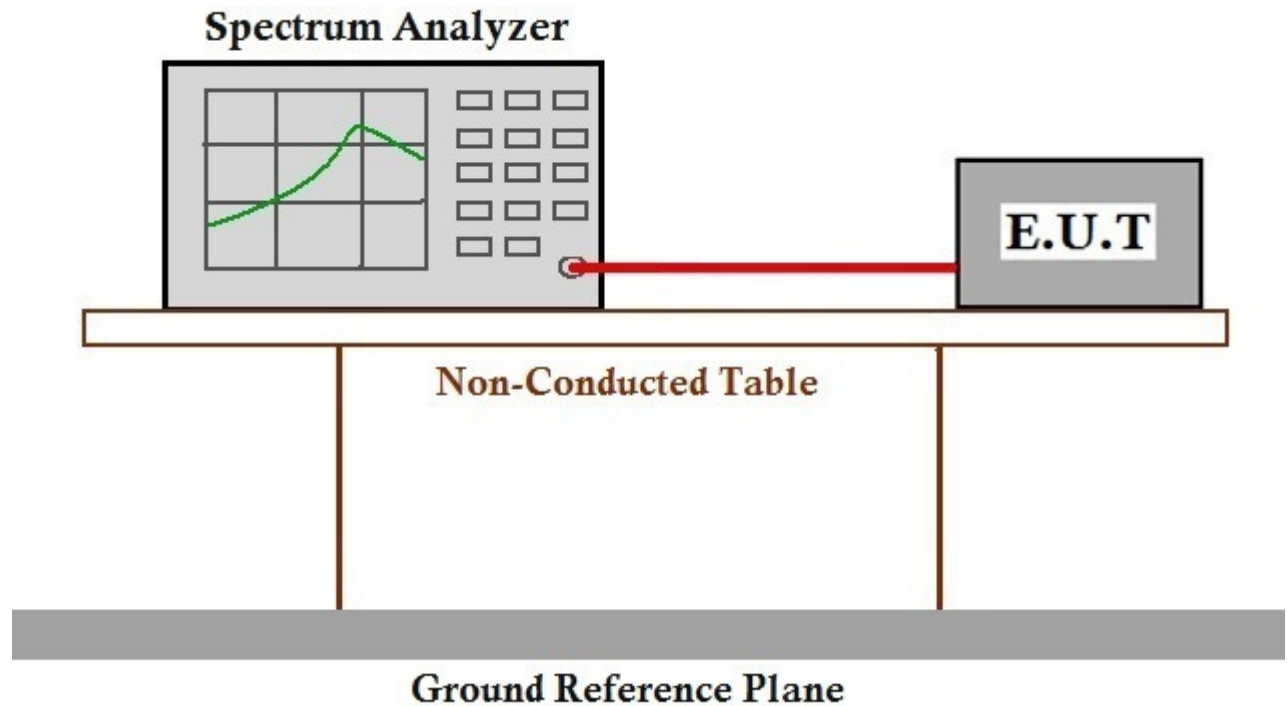
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.4 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: ANSI C63.10 Section 12.5
Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.



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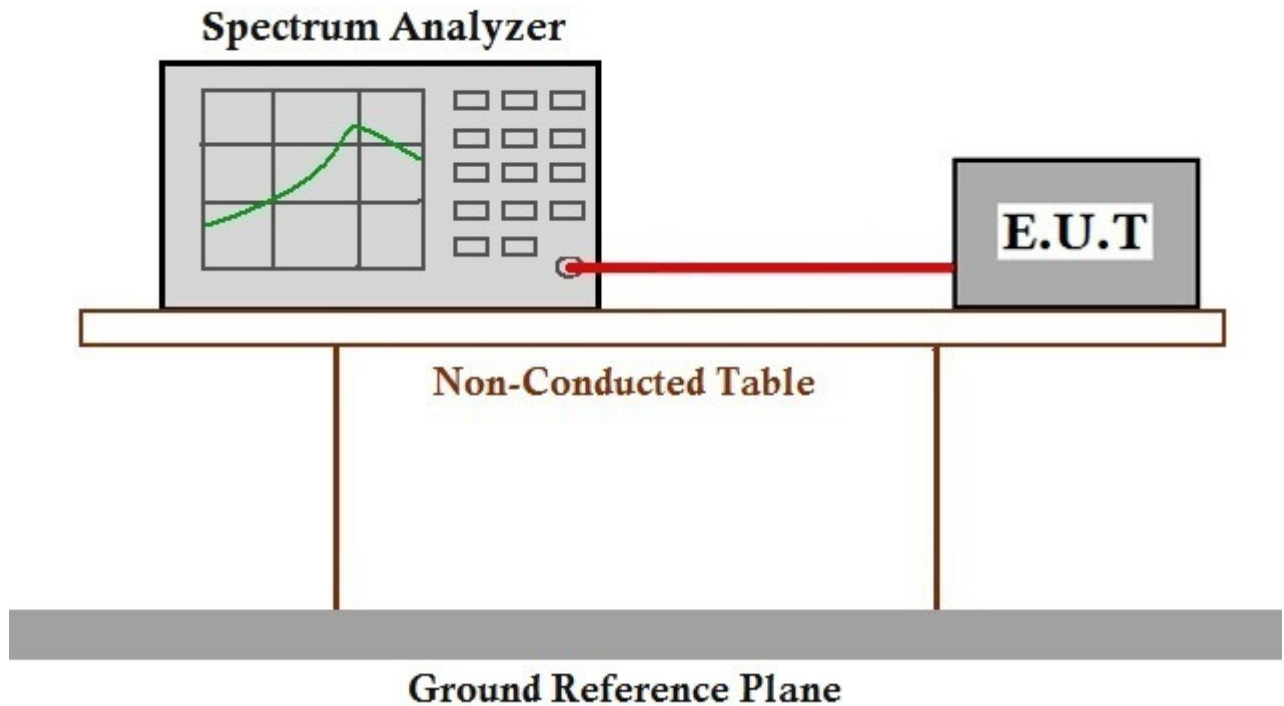
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 42.2 % RH Atmospheric Pressure: 1000 mbar

Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.5 Radiated Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method: ANSI C63.10 Section 12.7.3
Measurement Distance: 3m

Limit:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



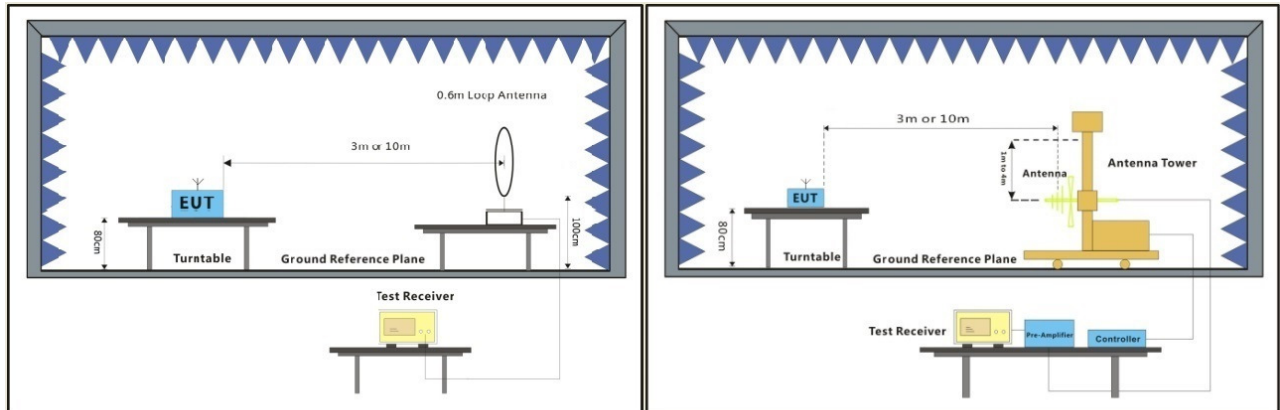
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 57.4 % RH Atmospheric Pressure: 1000 mbar

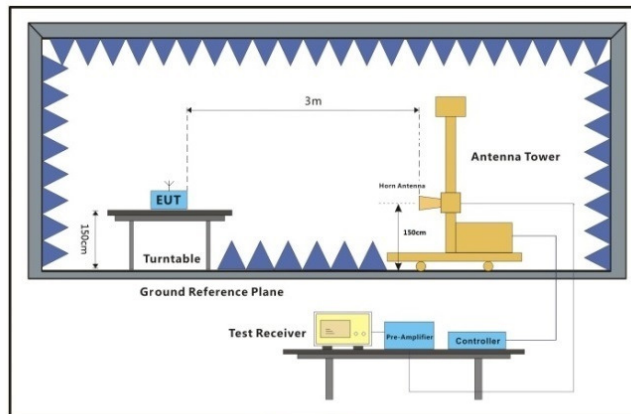
Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.5.2 Test Setup Diagram



Below 30MHz

30MHz-1GHz



Above 1GHz



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7.5.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 1.4MHz bandwidth. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note: The product has two antennas, but only one antenna is used to transmit signal at any time, through the pre-scan found the worst case is Antenna 1, and ANT1 data is recorded in report.

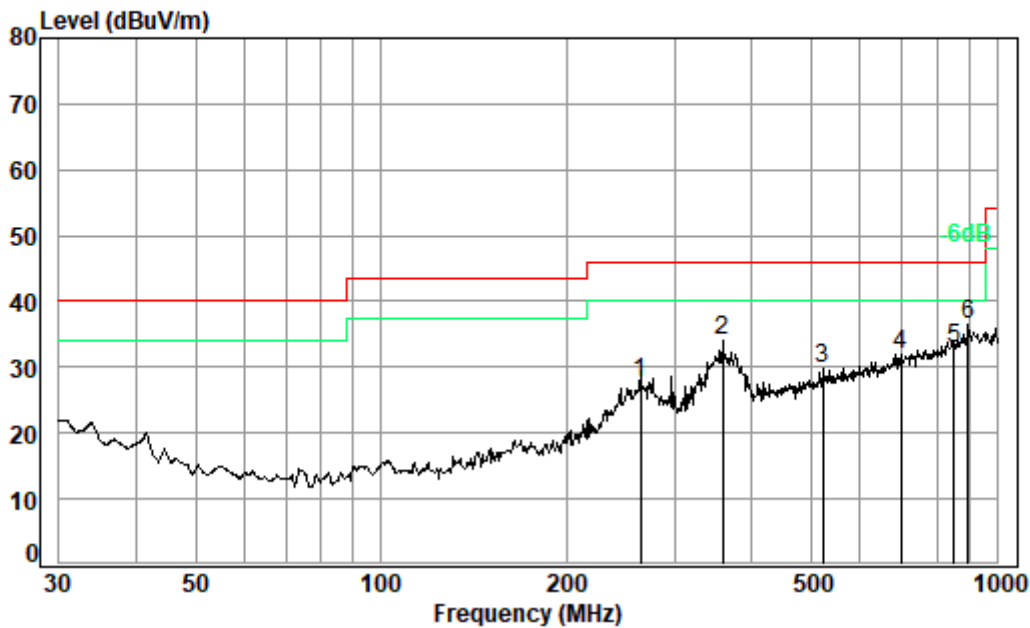


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30MHz~1GHz

QP value:

Mode: a; Polarization: Horizontal;



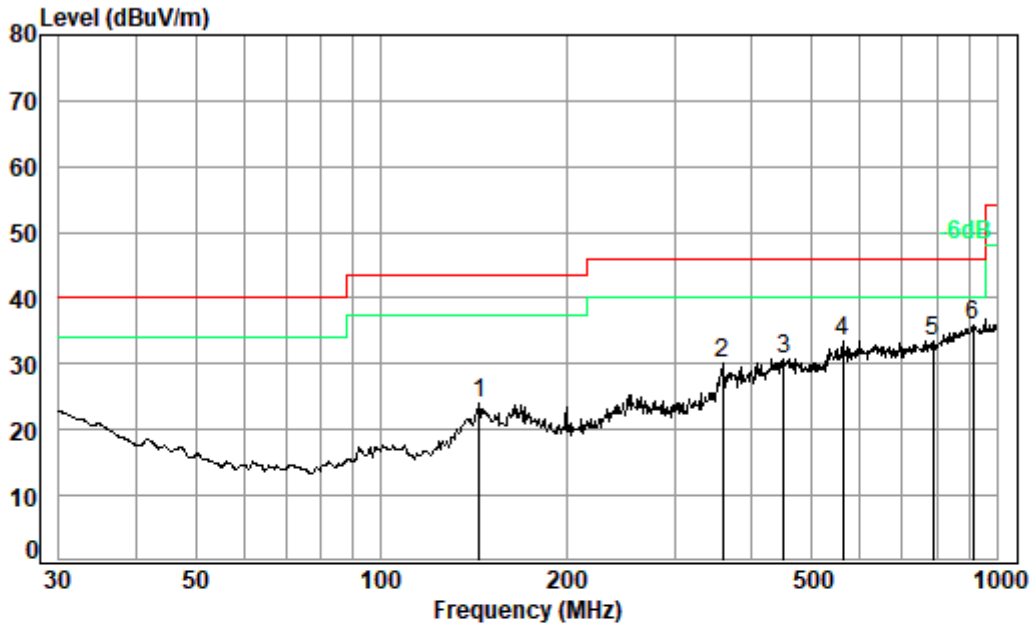
Condition: 3m HORIZONTAL
 Job No. : 15351CR
 Test Mode: tx

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	263.82	1.74	19.04	26.98	33.78	27.58	46.00	-18.42
2	359.19	2.09	21.35	27.22	37.83	34.05	46.00	-11.95
3	520.89	2.62	25.05	27.91	29.93	29.69	46.00	-16.31
4	699.30	2.90	27.89	27.93	29.04	31.90	46.00	-14.10
5	851.04	3.41	29.18	27.50	27.77	32.86	46.00	-13.14
6 pp	897.00	3.59	29.76	27.30	30.34	36.39	46.00	-9.61



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Mode :a; Polarization: Vertical



Condition: 3m VERTICAL
 Job No. : 15351CR
 Test Mode: tx

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1.31	14.11	27.39	35.90	23.93	43.50	-19.57
2	2.09	21.35	27.22	34.04	30.26	46.00	-15.74
3	2.42	23.59	27.64	32.45	30.82	46.00	-15.18
4	2.67	25.90	28.05	33.06	33.58	46.00	-12.42
5	3.17	28.43	27.74	29.75	33.61	46.00	-12.39
6 pp	3.62	29.88	27.23	29.53	35.80	46.00	-10.20

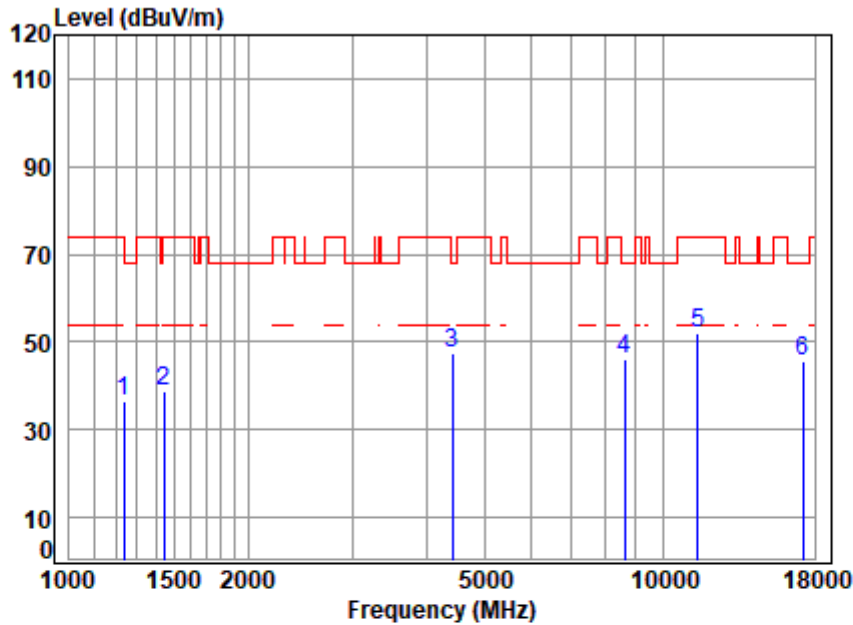


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Above 1GHz

For 1.4M:

Mode: a; Polarization: Horizontal; Channel: Low



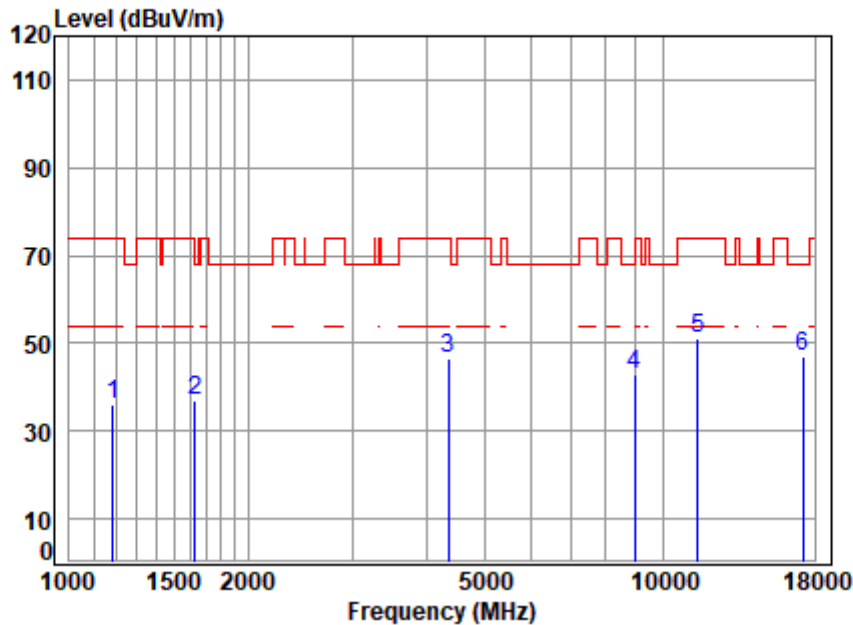
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5728.5 TX SE
 Note : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	4.57	24.76	40.51	47.61	36.43	74.00	-37.57 peak
2	1443.509	5.30	25.59	40.67	48.43	38.65	74.00	-35.35 peak
3	4417.841	7.47	33.46	43.22	49.56	47.27	68.20	-20.93 peak
4	8613.468	10.30	37.05	40.14	39.02	46.23	68.20	-21.97 peak
5	11457.000	12.10	37.89	38.47	40.36	51.88	74.00	-22.12 peak
6	17185.500	16.29	42.71	40.33	27.00	45.67	68.20	-22.53 peak



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Mode :a; Polarization: Vertical; Channel: Low



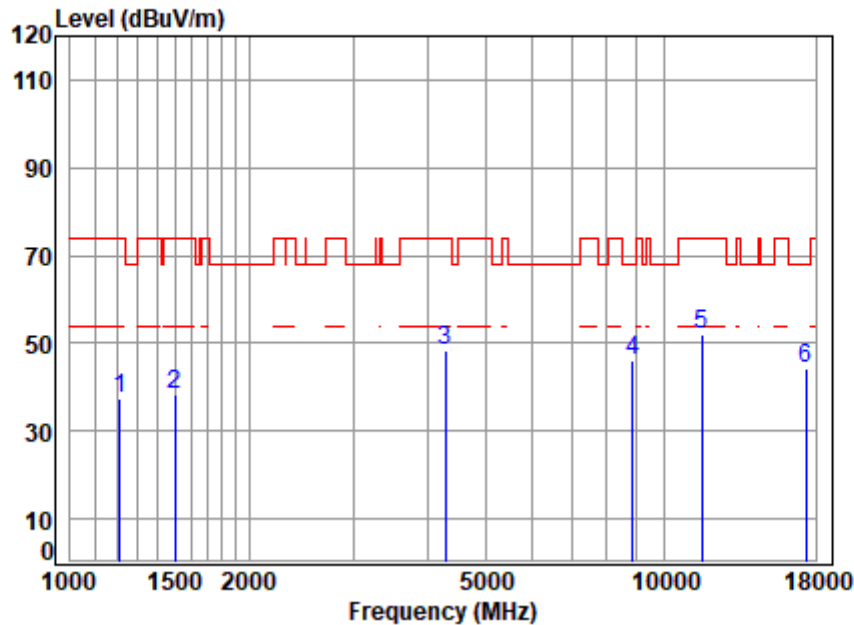
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5728.5 TX SE
 Note : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.936	4.36	24.53	40.47	47.46	35.88	74.00	-38.12 peak
2	1629.825	5.31	26.38	40.79	46.21	37.11	68.20	-31.09 peak
3	4354.454	7.40	33.35	43.15	49.10	46.70	74.00	-27.30 peak
4	8969.161	10.39	37.19	39.51	34.68	42.75	68.20	-25.45 peak
5	11457.000	12.10	37.89	38.47	39.59	51.11	74.00	-22.89 peak
6	17185.500	16.29	42.71	40.33	28.26	46.93	68.20	-21.27 peak



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Mode: a; Polarization: Horizontal; Channel: middle



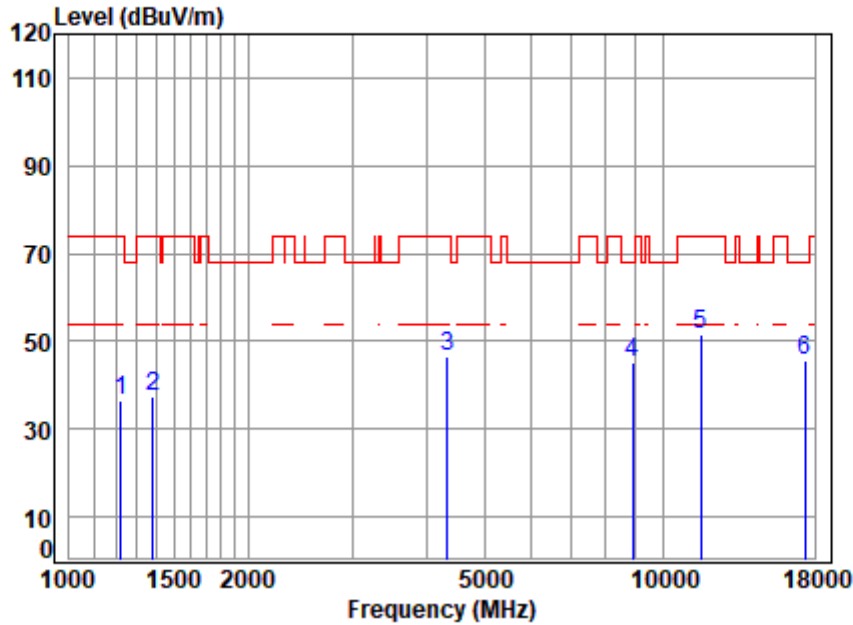
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5788.5 TX SE
 Note : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.46	24.64	40.49	48.81	37.42	74.00	-36.58	peak
2	1503.119	5.48	25.81	40.71	47.55	38.13	74.00	-35.87	peak
3	4291.977	7.33	33.24	43.08	50.67	48.16	74.00	-25.84	peak
4	8840.473	10.36	37.14	39.73	38.14	45.91	68.20	-22.29	peak
5	11577.000	12.17	37.87	38.52	40.48	52.00	74.00	-22.00	peak
6	17365.500	15.90	42.82	40.30	25.86	44.28	68.20	-23.92	peak



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Mode :a; Polarization: Vertical; Channel: middle



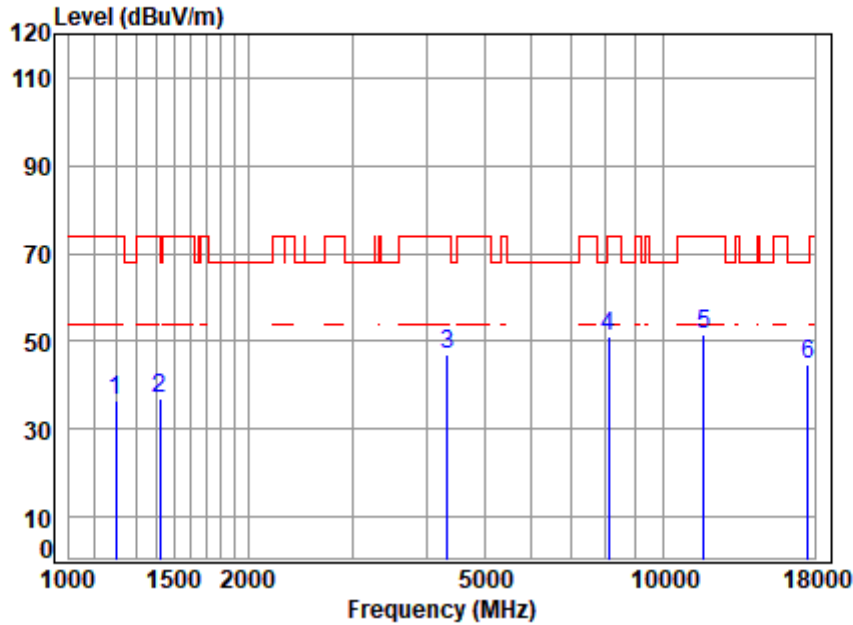
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5788.5 TX SE
 Note : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	4.50	24.68	40.50	47.83	36.51	74.00	-37.49 peak
2	1386.264	5.10	25.37	40.63	47.79	37.63	74.00	-36.37 peak
3	4329.354	7.37	33.30	43.12	49.02	46.57	74.00	-27.43 peak
4	8891.725	10.37	37.16	39.64	37.22	45.11	68.20	-23.09 peak
5	11577.000	12.17	37.87	38.52	39.90	51.42	74.00	-22.58 peak
6	17365.500	15.90	42.82	40.30	27.42	45.84	68.20	-22.36 peak



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Mode: a; Polarization: Horizontal; Channel: High



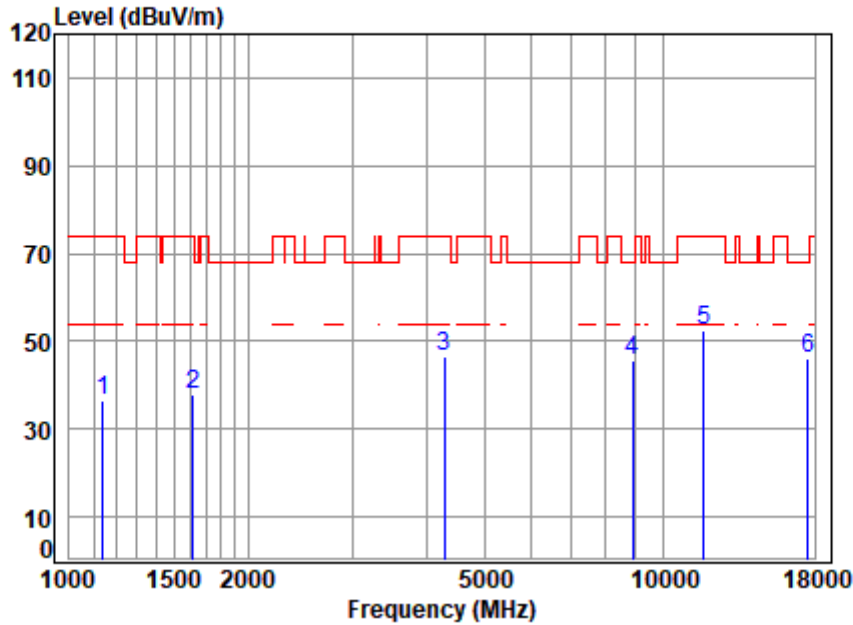
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5846.5 TX SE
 Note : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1199.726	4.42	24.59	40.48	48.10	36.63	74.00	-37.37 peak
2	1422.798	5.23	25.51	40.65	46.95	37.04	74.00	-36.96 peak
3	4329.354	7.37	33.30	43.12	49.53	47.08	74.00	-26.92 peak
4	8106.200	10.02	36.77	41.09	45.58	51.28	74.00	-22.72 peak
5	11693.000	12.21	37.82	38.57	40.30	51.76	74.00	-22.24 peak
6	17539.500	15.64	42.95	40.27	26.39	44.71	68.20	-23.49 peak



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Mode :a; Polarization: Vertical; Channel: High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5846.5 TX SE
 Note : 1.4M ANT1

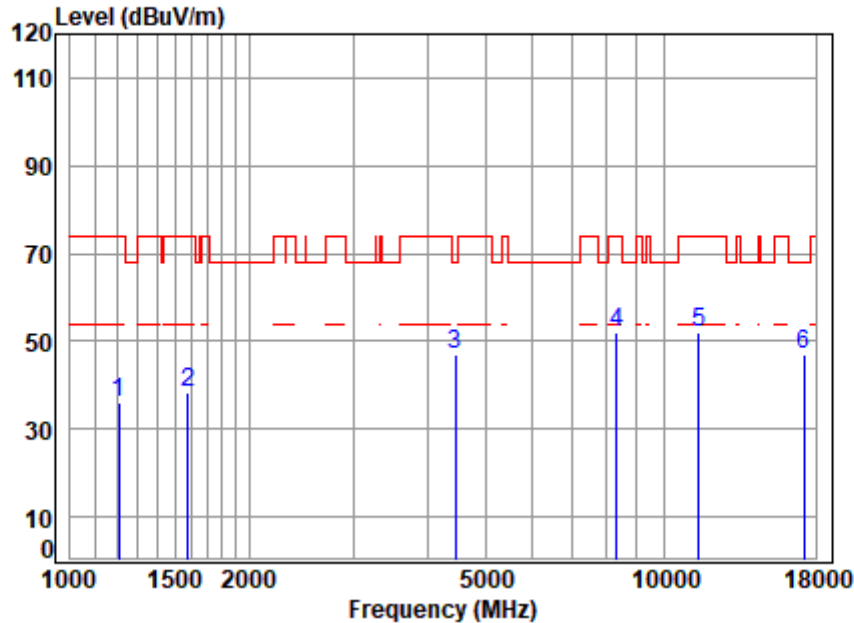
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1138.904	4.17	24.31	40.43	48.52	36.57	74.00	-37.43 peak
2	1615.754	5.33	26.32	40.78	46.78	37.65	74.00	-36.35 peak
3	4291.977	7.33	33.24	43.08	48.97	46.46	74.00	-27.54 peak
4	8891.725	10.37	37.16	39.64	37.55	45.44	68.20	-22.76 peak
5	11693.000	12.21	37.82	38.57	40.90	52.36	74.00	-21.64 peak
6	17539.500	15.64	42.95	40.27	27.62	45.94	68.20	-22.26 peak



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For 10M:

Mode: a; Polarization: Horizontal; Channel: Low



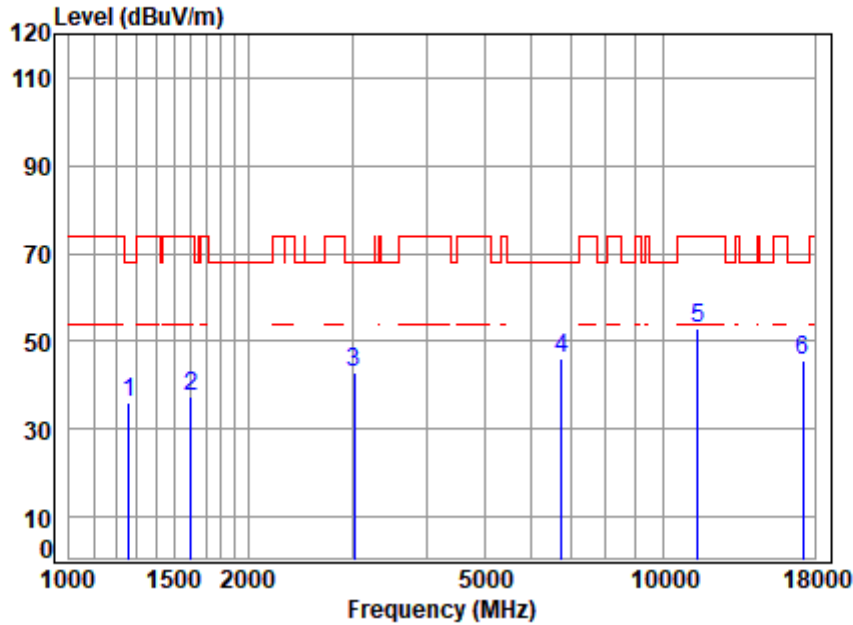
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5730.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	4.44	24.62	40.49	47.60	36.17	74.00	-37.83	peak
2	1578.822	5.38	26.16	40.76	47.43	38.21	74.00	-35.79	peak
3	4456.315	7.51	33.53	43.26	49.06	46.84	68.20	-21.36	peak
4	8319.836	10.16	36.89	40.69	45.81	52.17	74.00	-21.83	peak
5	11461.000	12.10	37.89	38.47	40.60	52.12	74.00	-21.88	peak
6	17191.500	16.28	42.72	40.33	28.24	46.91	68.20	-21.29	peak



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Mode :a; Polarization: Vertical; Channel: Low



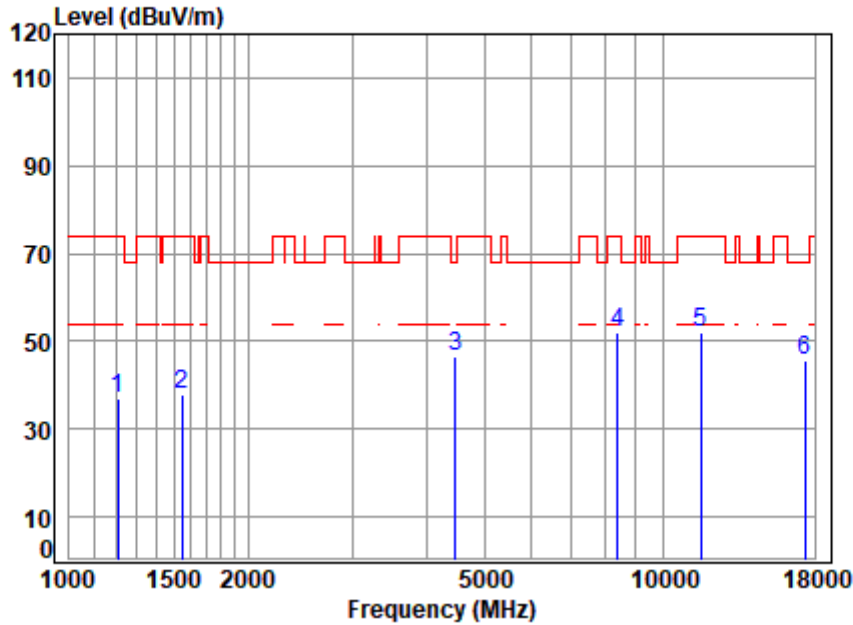
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5730.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	4.65	24.85	40.53	47.09	36.06	68.20	-32.14 peak
2	1606.441	5.34	26.28	40.77	46.42	37.27	74.00	-36.73 peak
3	3016.575	6.00	30.93	41.43	47.39	42.89	68.20	-25.31 Peak
4	6756.708	10.80	35.76	42.20	41.89	46.25	68.20	-21.95 Peak
5	11461.000	12.10	37.89	38.47	41.42	52.94	74.00	-21.06 peak
6	17191.500	16.28	42.72	40.33	26.85	45.52	68.20	-22.68 peak



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Mode: a; Polarization: Horizontal; Channel: middle



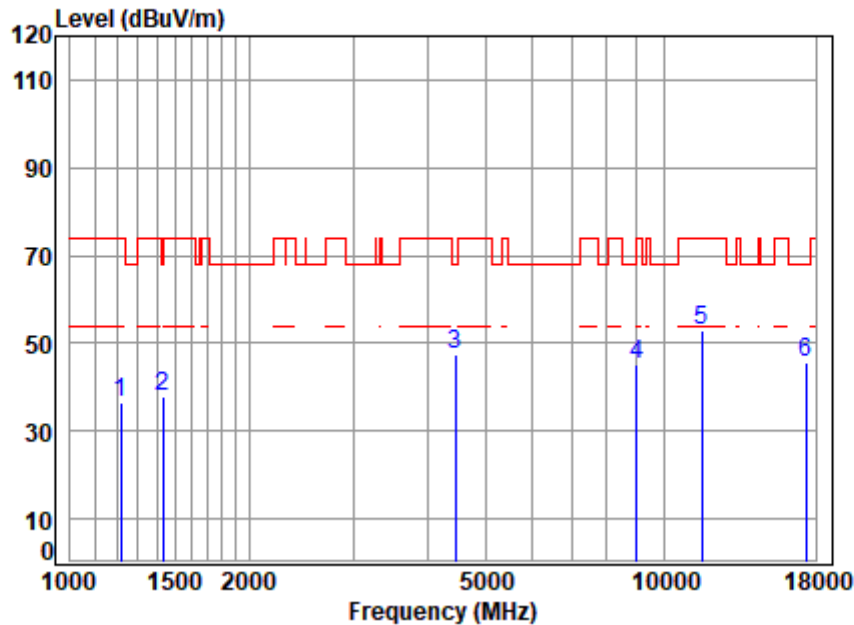
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5787.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1206.682	4.44	24.62	40.49	48.21	36.78	74.00	-37.22 peak
2	1547.199	5.42	26.02	40.74	47.26	37.96	74.00	-36.04 peak
3	4469.214	7.53	33.55	43.27	48.57	46.38	68.20	-21.82 peak
4	8392.292	10.20	36.94	40.55	45.49	52.08	74.00	-21.92 peak
5	11575.000	12.17	37.87	38.52	40.53	52.05	74.00	-21.95 peak
6	17362.500	15.90	42.82	40.30	26.99	45.41	68.20	-22.79 peak



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Mode :a; Polarization: Vertical; Channel: middle



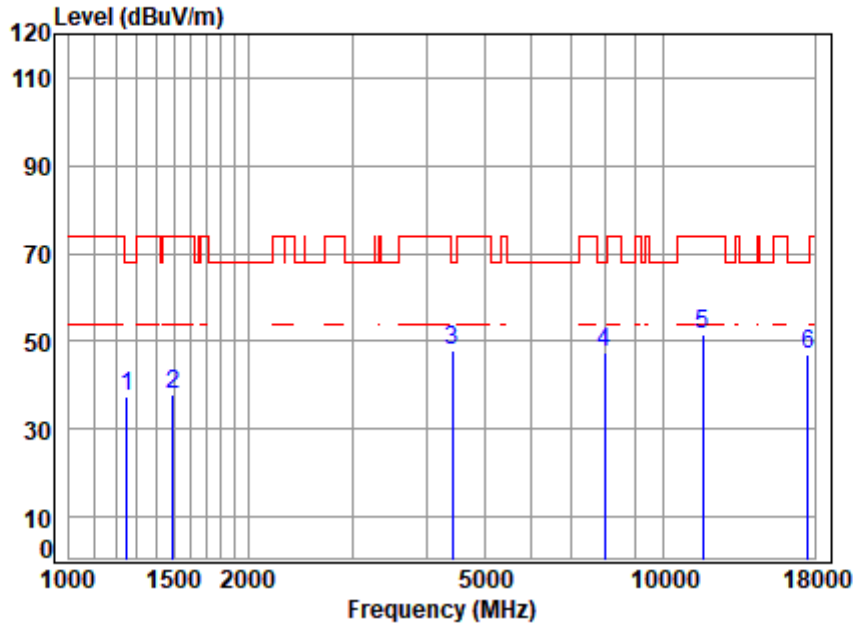
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5787.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1217.190	4.49	24.67	40.50	47.91	36.57	74.00	-37.43 peak
2	1431.047	5.26	25.54	40.66	47.78	37.92	68.20	-30.28 peak
3	4456.315	7.51	33.53	43.26	49.50	47.28	68.20	-20.92 peak
4	8995.123	10.40	37.20	39.46	37.13	45.27	68.20	-22.93 peak
5	11575.000	12.17	37.87	38.52	41.37	52.89	74.00	-21.11 peak
6	17362.500	15.90	42.82	40.30	27.40	45.82	68.20	-22.38 peak



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Mode: a; Polarization: Horizontal; Channel: High



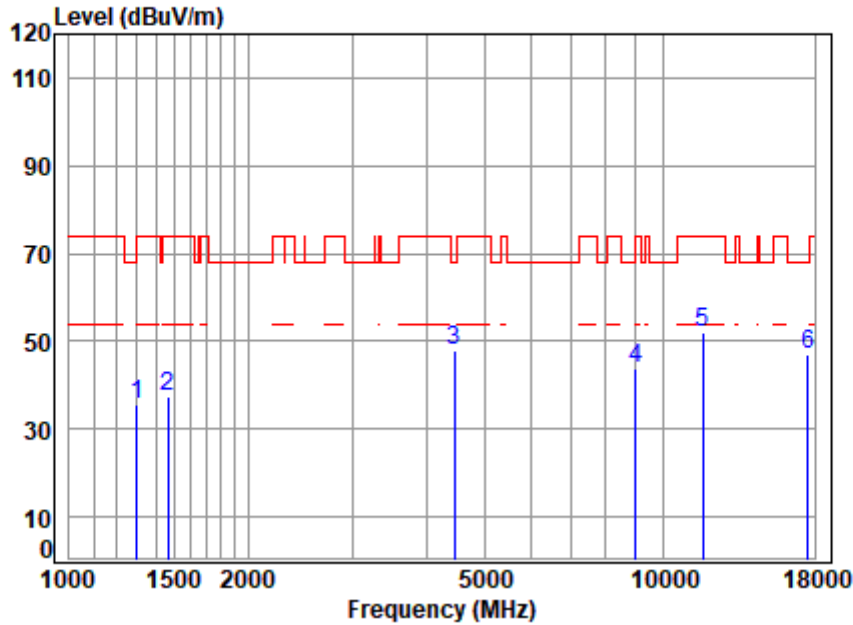
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5844.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1249.269	4.61	24.81	40.52	48.32	37.22	68.20	-30.98 peak
2	1494.455	5.46	25.78	40.70	47.47	38.01	74.00	-35.99 peak
3	4417.841	7.47	33.46	43.22	50.41	48.12	68.20	-20.08 peak
4	7989.893	9.95	36.69	41.31	42.04	47.37	68.20	-20.83 peak
5	11689.000	12.21	37.82	38.57	40.32	51.78	74.00	-22.22 peak
6	17533.500	15.64	42.94	40.27	28.58	46.89	68.20	-21.31 peak



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Mode :a; Polarization: Vertical; Channel: High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5844.5 TX SE
 Note : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1300.858	4.80	25.03	40.56	46.52	35.79	74.00	-38.21 peak
2	1468.761	5.38	25.69	40.68	47.09	37.48	74.00	-36.52 peak
3	4456.315	7.51	33.53	43.26	49.91	47.69	68.20	-20.51 peak
4	8995.123	10.40	37.20	39.46	35.50	43.64	68.20	-24.56 peak
5	11689.000	12.21	37.82	38.57	40.71	52.17	74.00	-21.83 peak
6	17533.500	15.64	42.94	40.27	28.77	47.08	68.20	-21.12 peak



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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: ANSI C63.10 Section 12.7.2
Measurement Distance: 3m
Limit:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



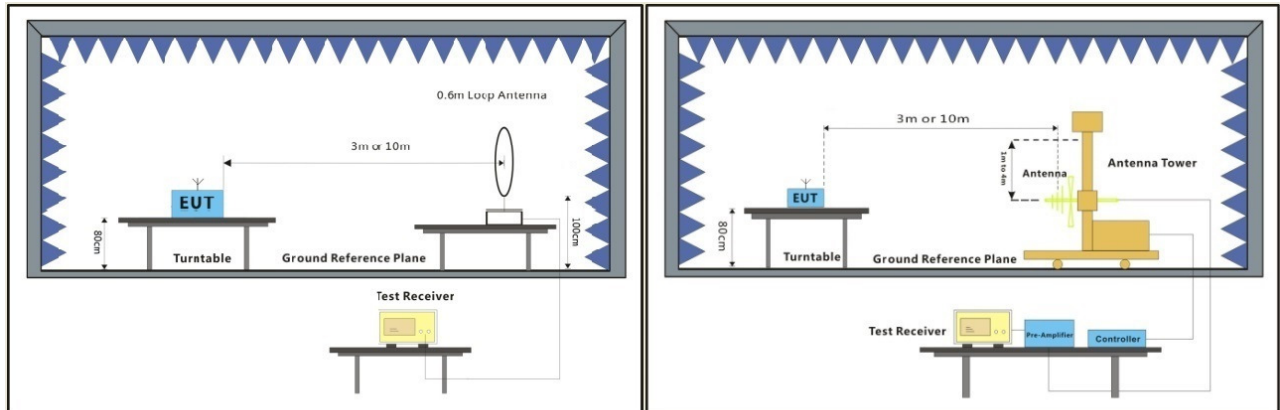
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 54.6 % RH Atmospheric Pressure: 1000 mbar

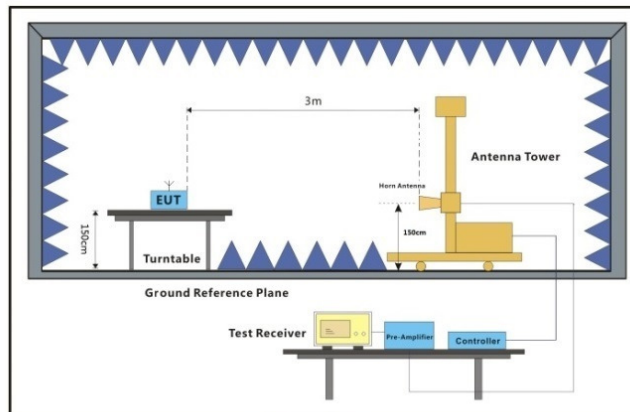
Test mode a: TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.6.2 Test Setup Diagram



Below 30MHz

30MHz-1GHz



Above 1GHz



7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

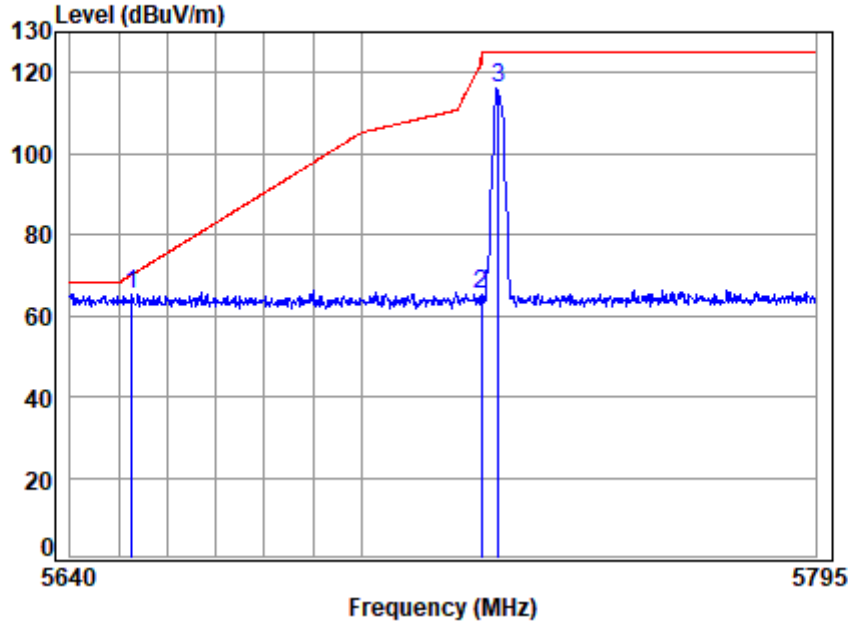
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Note: The product has two antennas, but only one antenna is used to transmit signal at any time, through the pre-scan found the worst case is Antenna 1, and ANT1 data is recorded in report.



For 1.4M:

Mode: a; Polarization: Horizontal; Channel: Low



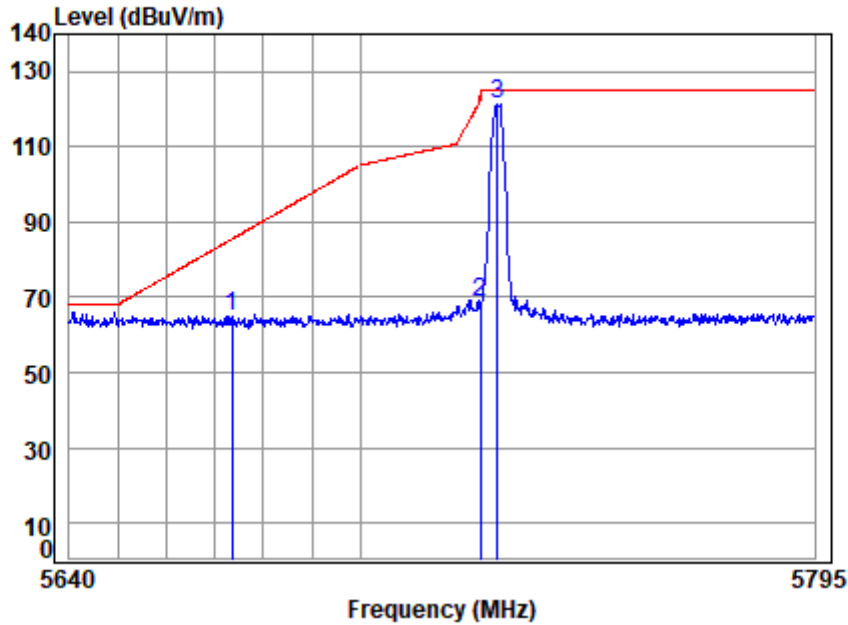
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5728.5 Band edge
 : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	562.706	9.39	34.76	0.00	21.00	65.15	70.20	-5.05	Peak
2	5725.000	9.64	34.83	0.00	20.55	65.02	122.20	-57.18	Peak
3	5728.500	9.65	34.83	0.00	71.84	116.32	125.20	-8.88	Peak



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Mode :a; Polarization: Vertical; Channel: Low



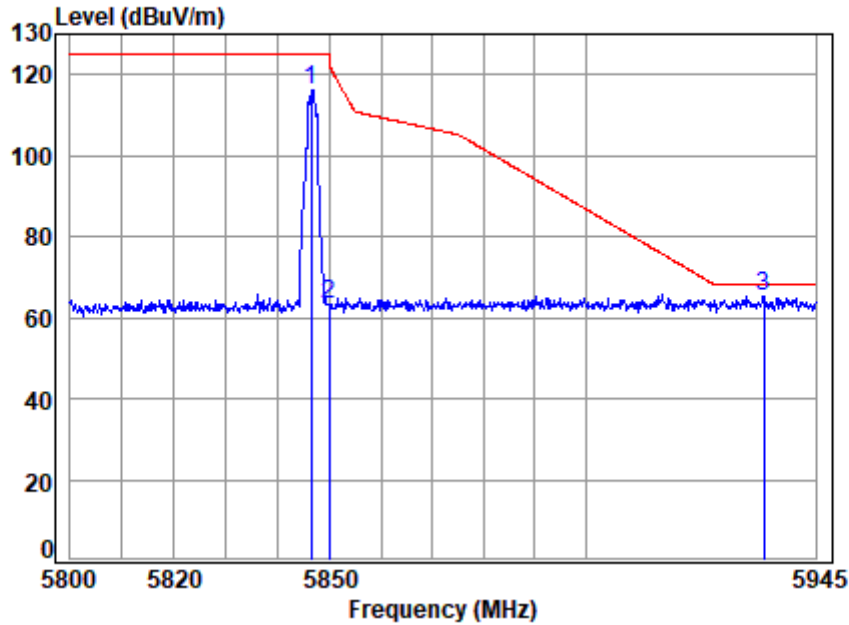
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5728.5 Band edge
 : 1.4M ANT1

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5673.433	9.46	34.78	0.00	20.95	65.19	85.54	-20.35 Peak
2	5725.000	9.64	34.83	0.00	24.13	68.60	122.20	-53.60 Peak
3	5728.500	9.65	34.83	0.00	76.99	121.47	125.20	-3.73 Peak



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Mode: a; Polarization: Horizontal; Channel: High



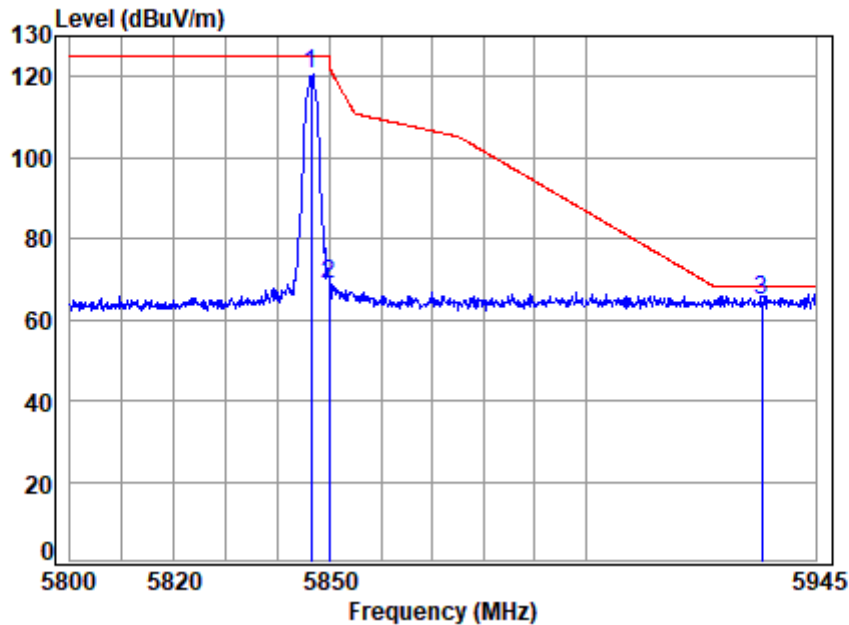
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5846.5 Band edge
 : 1.4M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5846.500	10.06	34.95	0.00	71.11	125.20	-9.08	Peak
2	5850.000	10.07	34.95	0.00	18.25	122.20	-58.93	Peak
3	5934.733	10.35	35.04	0.00	19.74	68.20	-3.07	Peak



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Mode :a; Polarization: Vertical; Channel: High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5846.5 Band edge
 : 1.4M ANT1

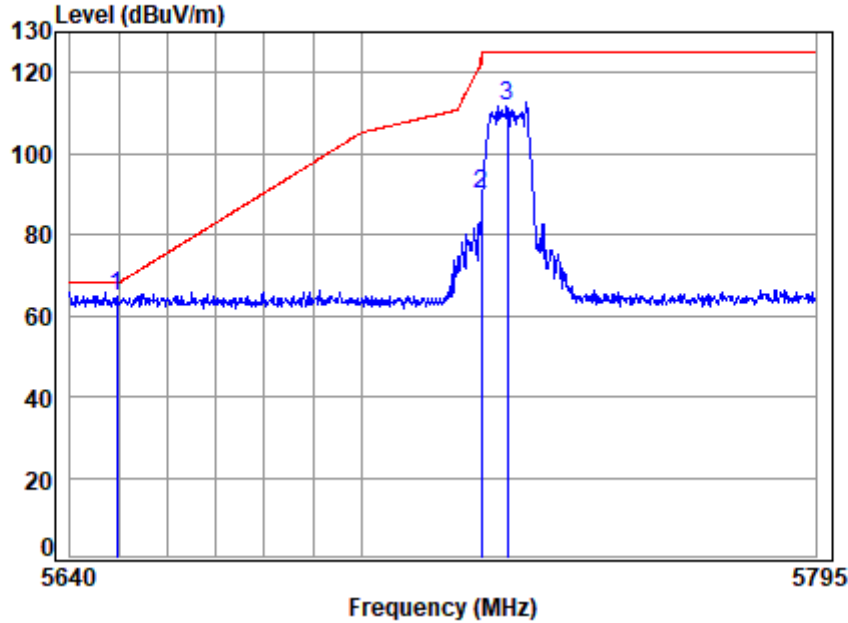
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5846.500	10.06	34.95	0.00	75.76	120.77	125.20	-4.43 Peak
2	5850.000	10.07	34.95	0.00	23.63	68.65	122.20	-53.55 Peak
3	5934.440	10.35	35.04	0.00	19.55	64.94	68.20	-3.26 Peak



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For 10M:

Mode: a; Polarization: Horizontal; Channel: Low



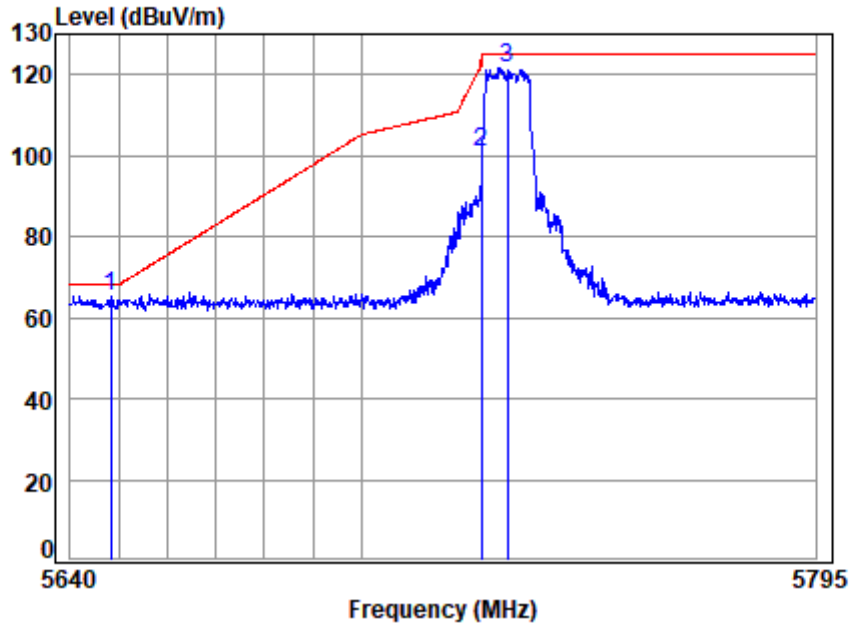
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5730.5 Band edge
 : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.488	9.38	34.75	0.00	20.51	64.64	68.20	-3.56 Peak
2	5725.000	9.64	34.83	0.00	45.57	90.04	122.20	-32.16 Peak
3	5730.500	9.66	34.84	0.00	67.36	111.86	125.20	-13.34 Peak



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Mode :a; Polarization: Vertical; Channel: Low



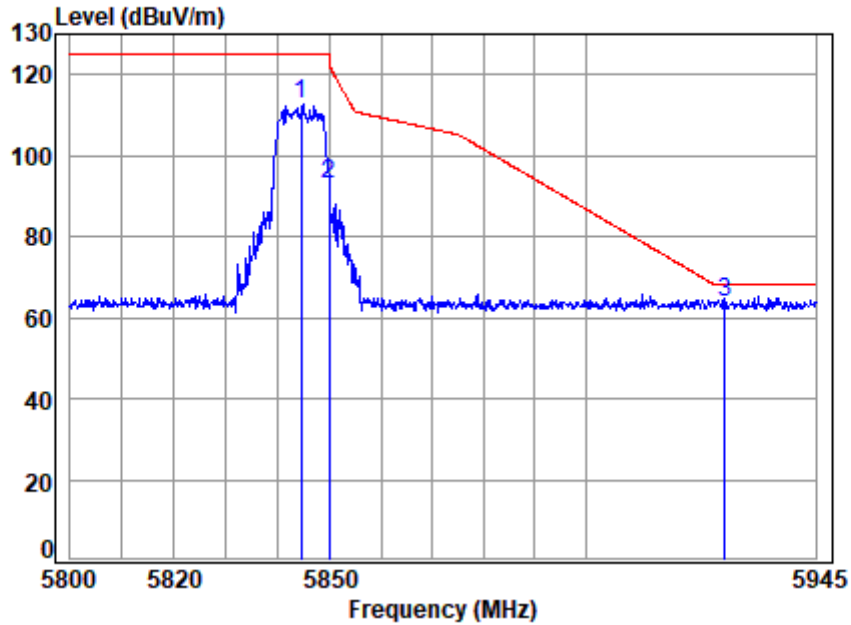
Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5730.5 Band edge
 : 10M ANT1

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5648.263	9.38	34.75	0.00	20.88	65.01	68.20	-3.19 Peak
2	5725.000	9.64	34.83	0.00	56.14	100.61	122.20	-21.59 Peak
3	5730.500	9.66	34.84	0.00	77.08	121.58	125.20	-3.62 Peak



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Mode: a; Polarization: Horizontal; Channel: High



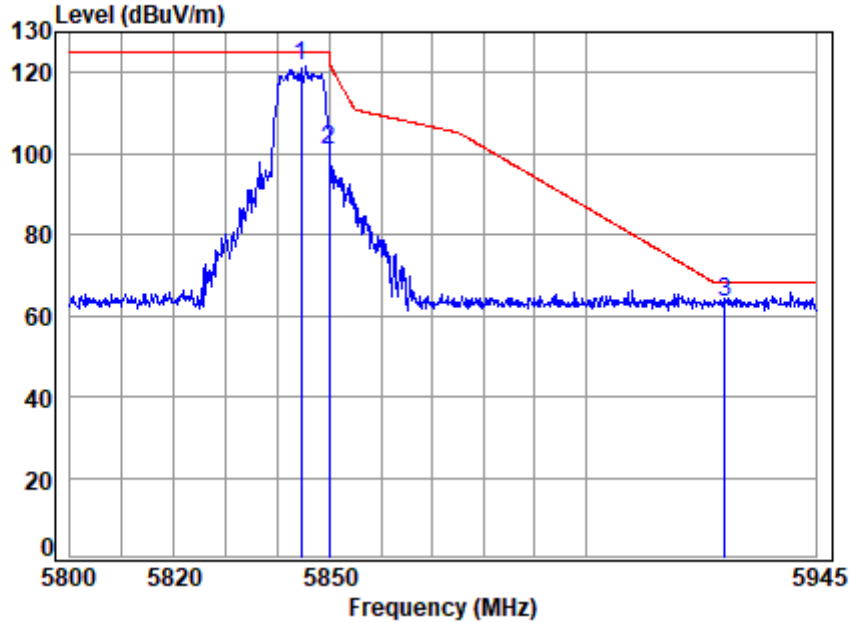
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 15351CR
 Mode : 5844.5 Band edge
 : 10M ANT1

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	10.05	34.95	0.00	67.59	112.59	125.20	-12.61	Peak
2	10.07	34.95	0.00	47.88	92.90	122.20	-29.30	Peak
3	10.33	35.03	0.00	18.52	63.88	68.20	-4.32	Peak



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Mode :a; Polarization: Vertical; Channel: High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 15351CR
 Mode : 5844.5 Band edge
 : 10M ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.500	10.05	34.95	0.00	76.51	121.51	125.20	-3.69 Peak
2	5850.000	10.07	34.95	0.00	55.70	100.72	122.20	-21.48 Peak
3	5927.118	10.33	35.03	0.00	18.04	63.40	68.20	-4.80 Peak



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7.7 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart E 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Conclusion:	Pass. The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual.



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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9 Appendix

9.1 Appendix 15.407

9.1.1 Appendix 15.407-1.4M

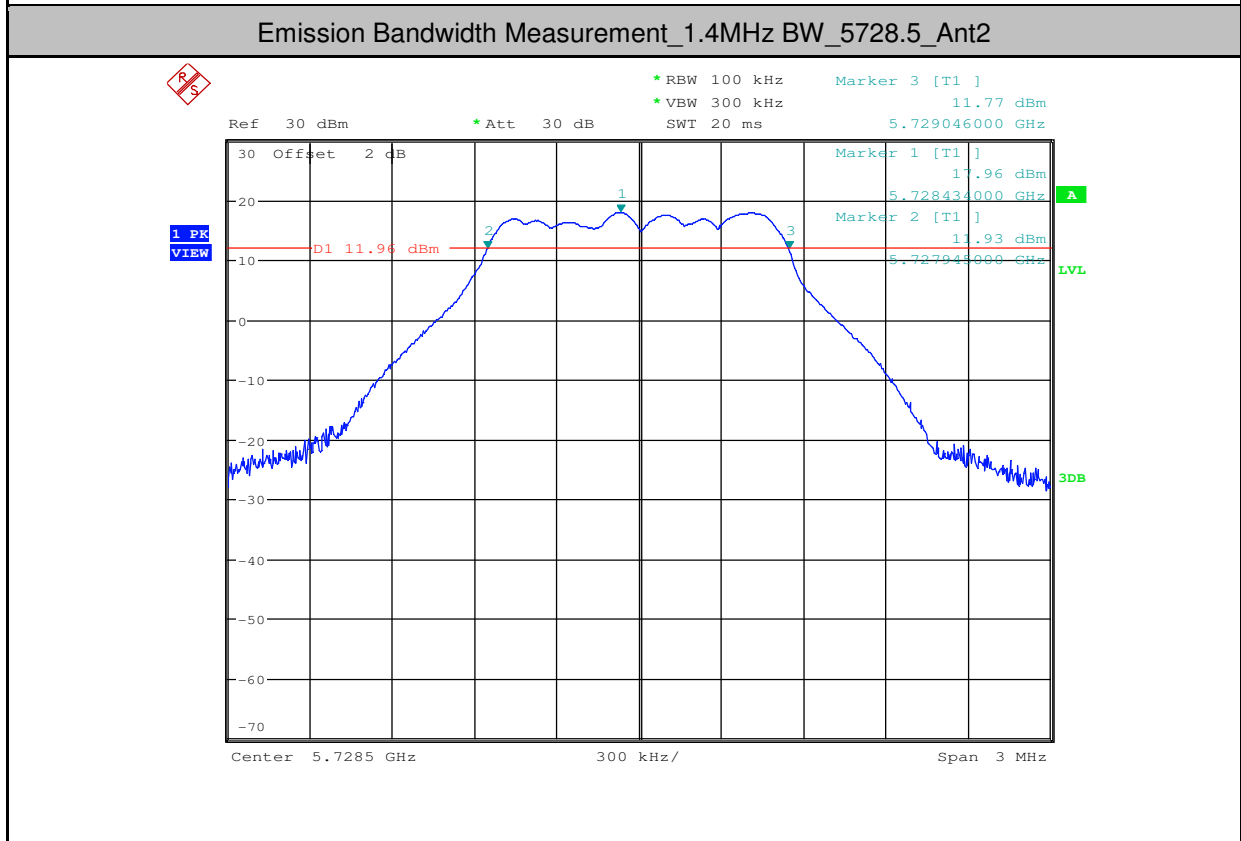
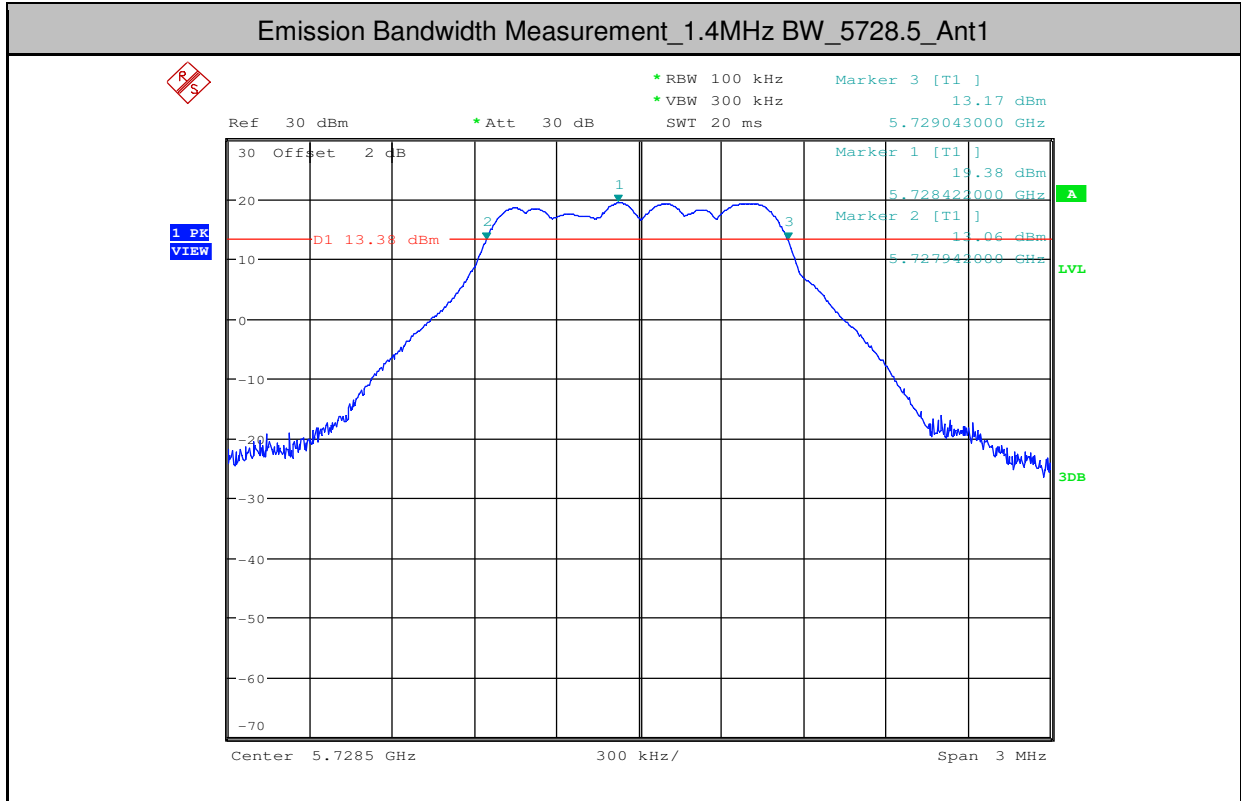
1.Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
1.4MHz BW	5728.5	Ant1	1.101	>=0.5	PASS
1.4MHz BW	5728.5	Ant2	1.101	>=0.5	PASS
1.4MHz BW	5788.5	Ant1	1.098	>=0.5	PASS
1.4MHz BW	5788.5	Ant2	1.098	>=0.5	PASS
1.4MHz BW	5846.5	Ant1	1.101	>=0.5	PASS
1.4MHz BW	5846.5	Ant2	1.095	>=0.5	PASS



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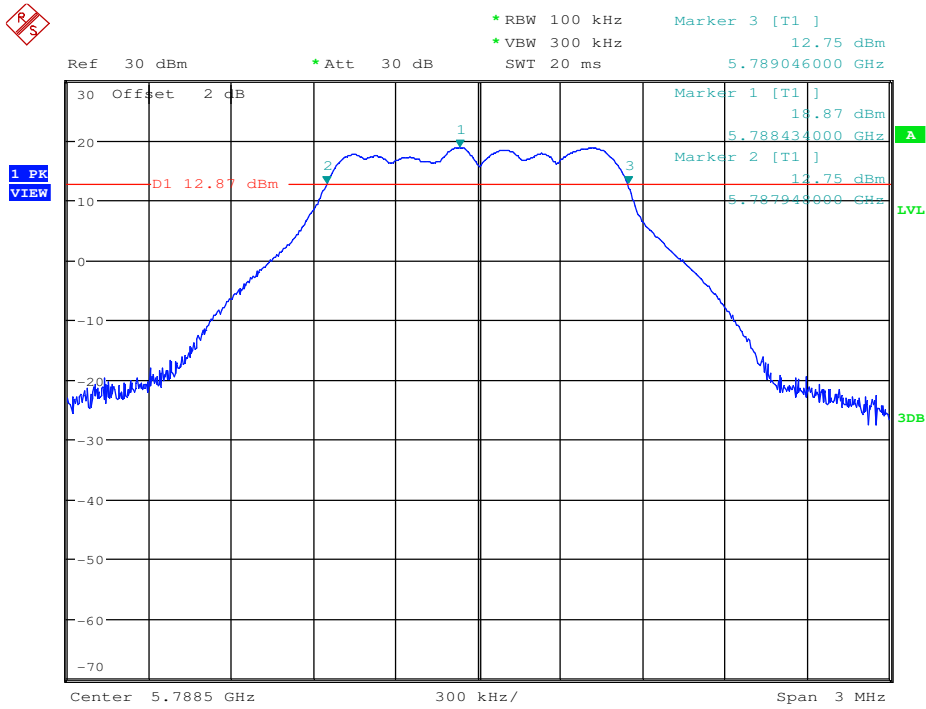
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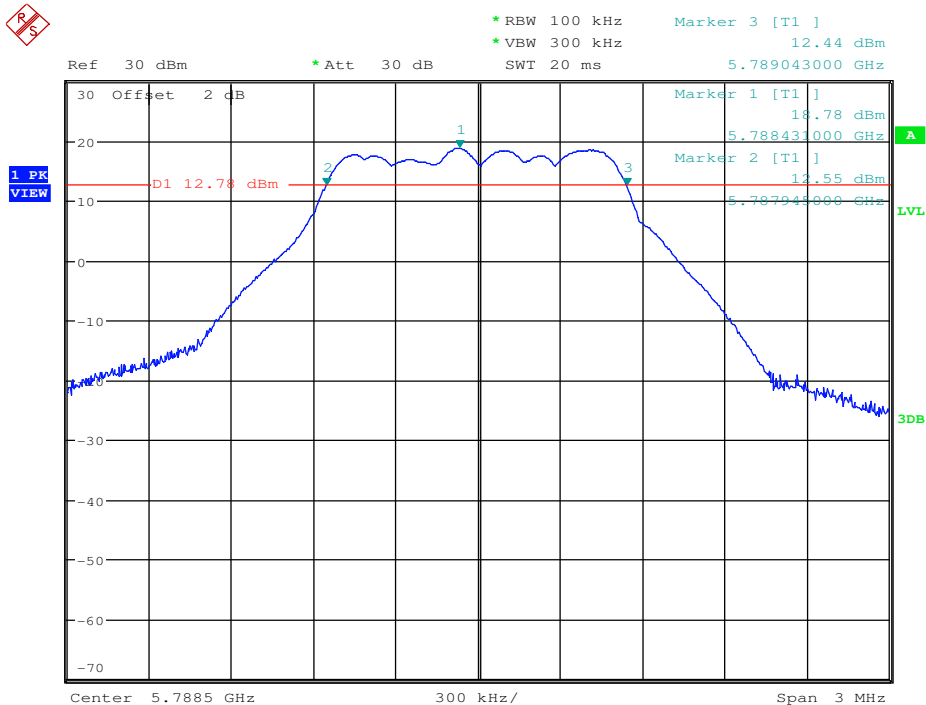
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Emission Bandwidth Measurement_1.4MHz BW_5788.5_Ant1



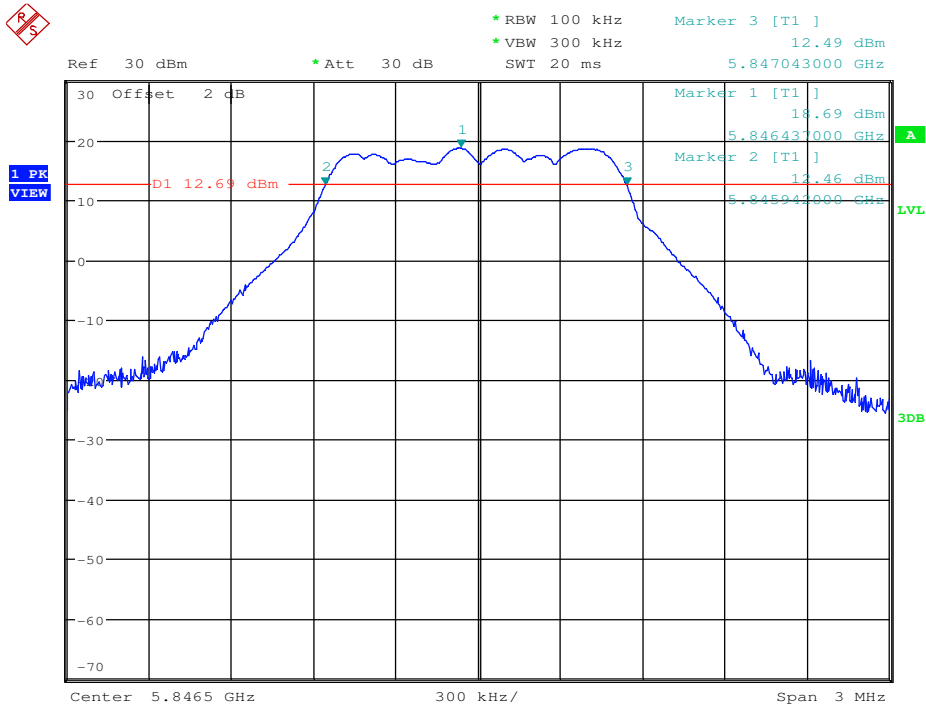
Emission Bandwidth Measurement_1.4MHz BW_5788.5_Ant2



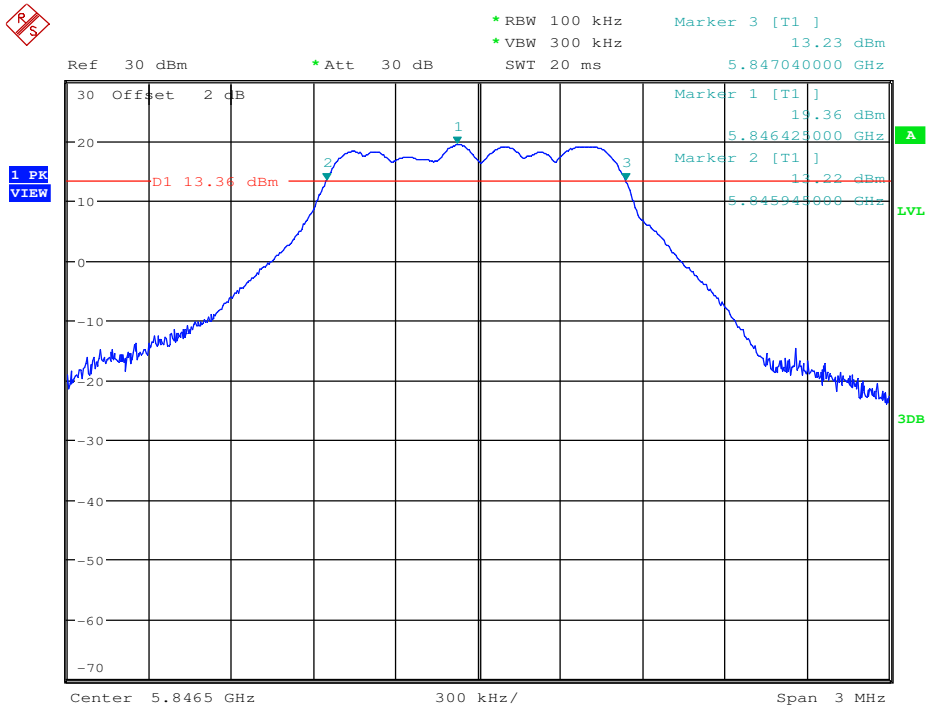
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Emission Bandwidth Measurement_1.4MHz BW_5846.5_Ant1



Emission Bandwidth Measurement_1.4MHz BW_5846.5_Ant2



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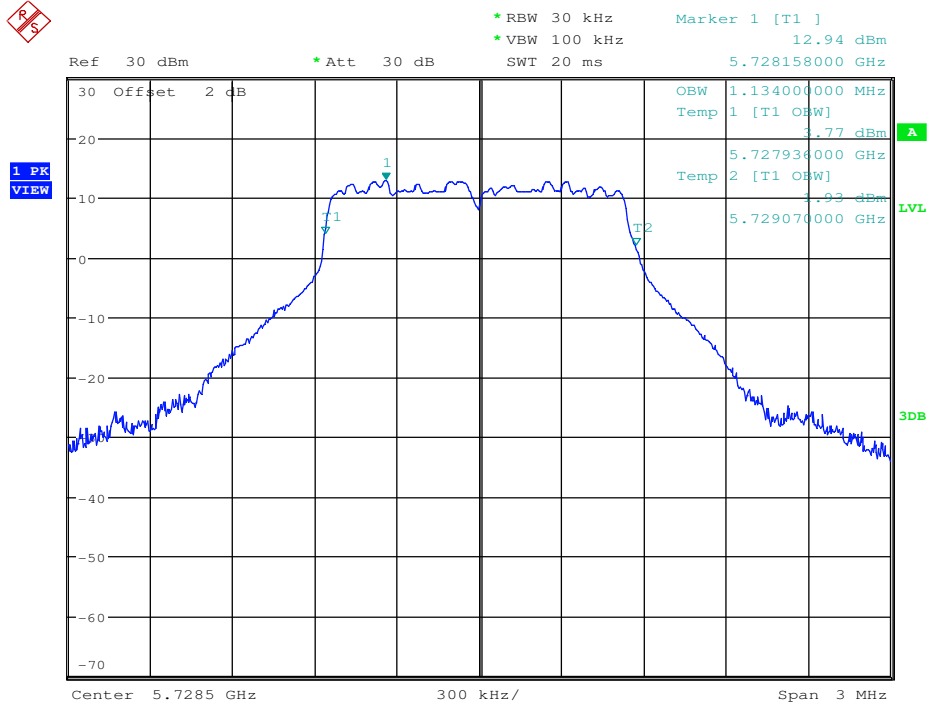
2.Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
1.4MHz BW	5728.5	Ant1	1.134	---	PASS
1.4MHz BW	5728.5	Ant2	1.140	---	PASS
1.4MHz BW	5788.5	Ant1	1.140	---	PASS
1.4MHz BW	5788.5	Ant2	1.134	---	PASS
1.4MHz BW	5846.5	Ant1	1.134	---	PASS
1.4MHz BW	5846.5	Ant2	1.137	---	PASS

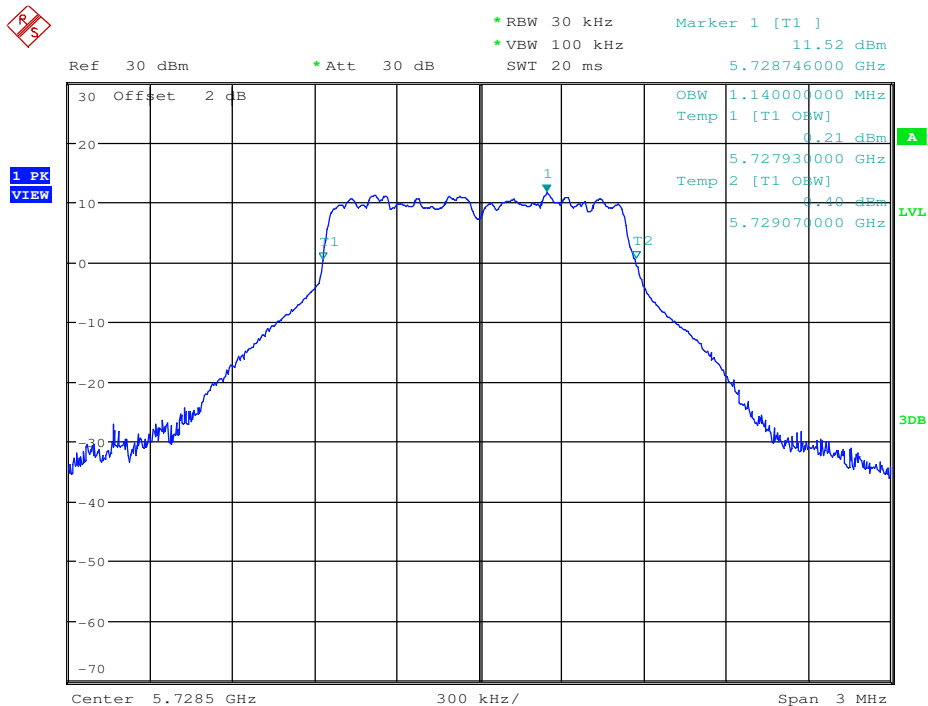


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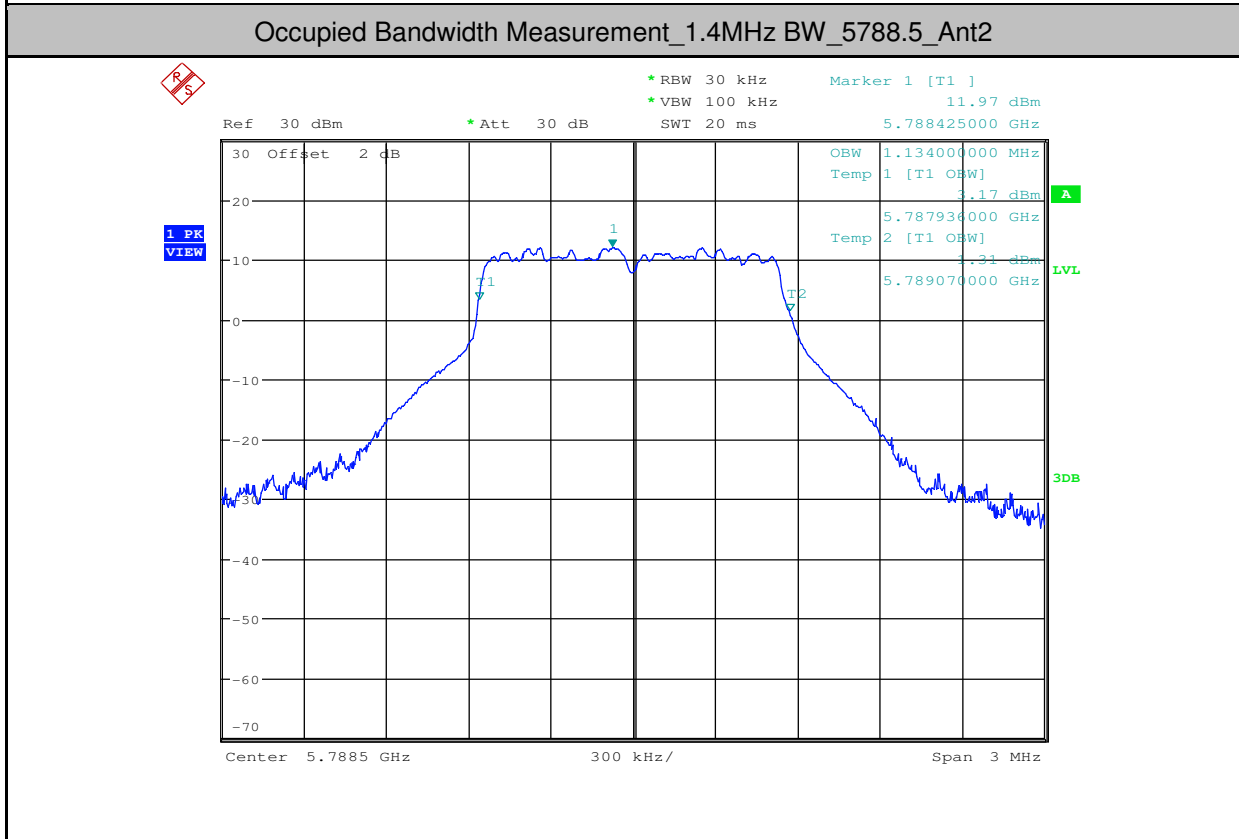
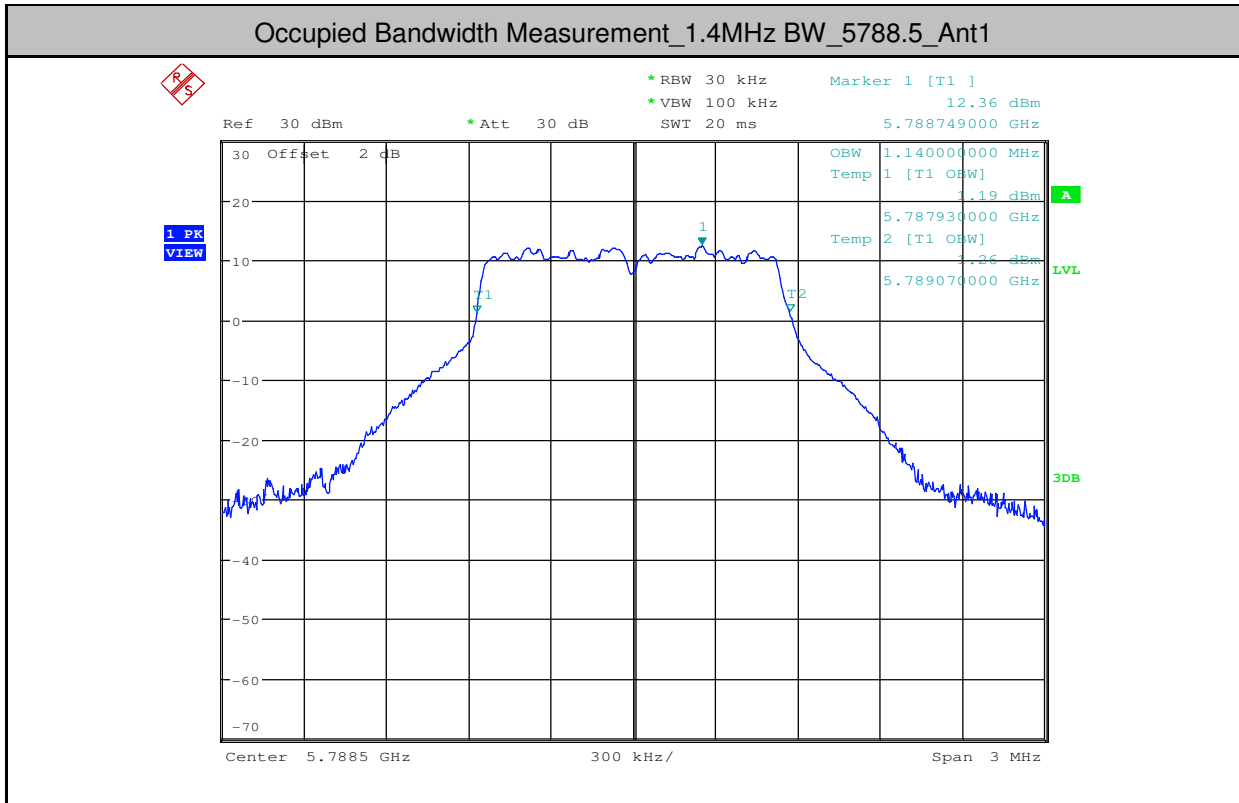
Occupied Bandwidth Measurement_1.4MHz BW_5728.5_Ant1



Occupied Bandwidth Measurement_1.4MHz BW_5728.5_Ant2

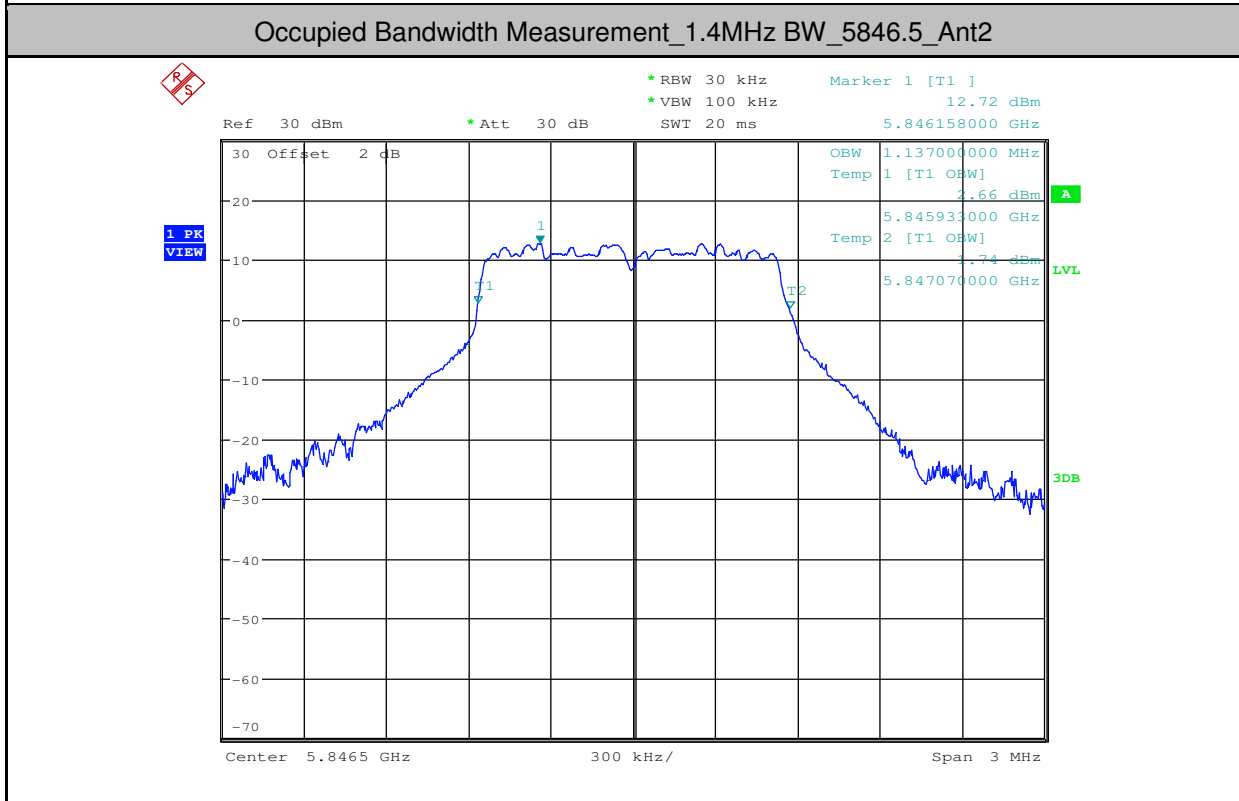
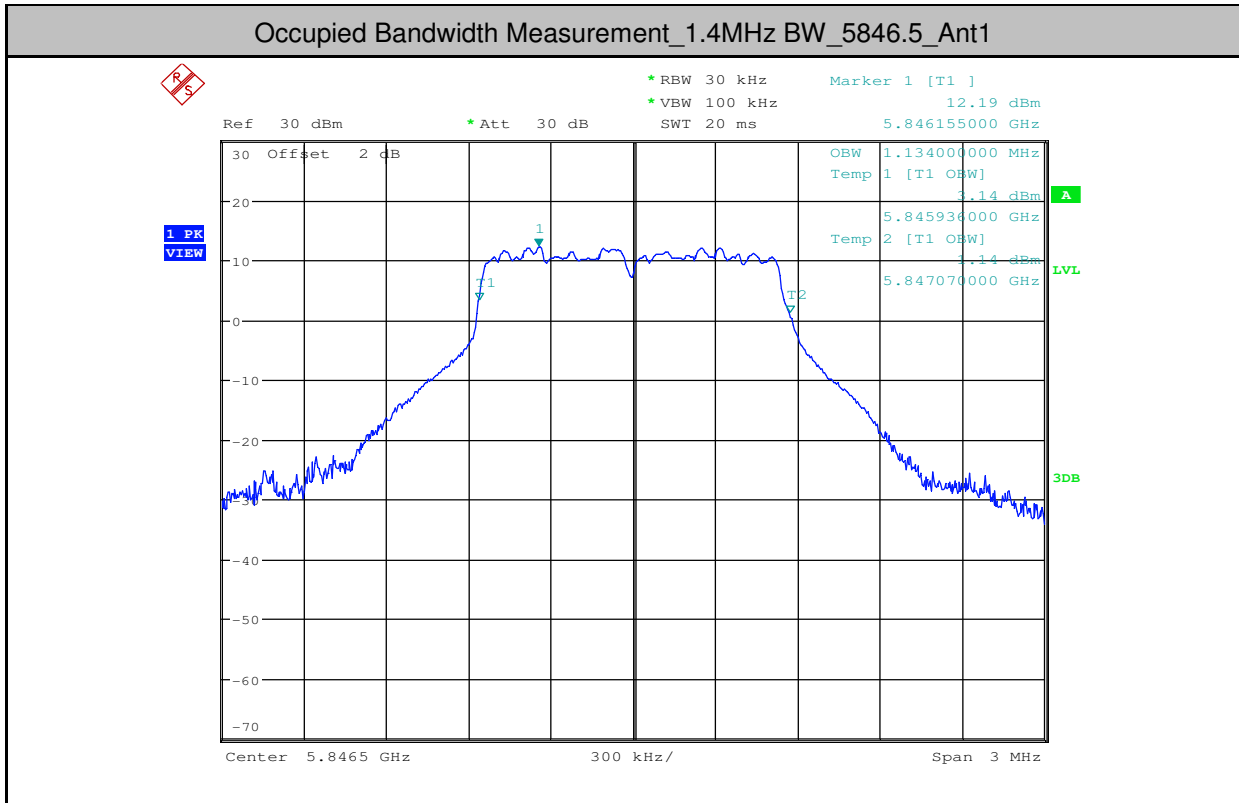


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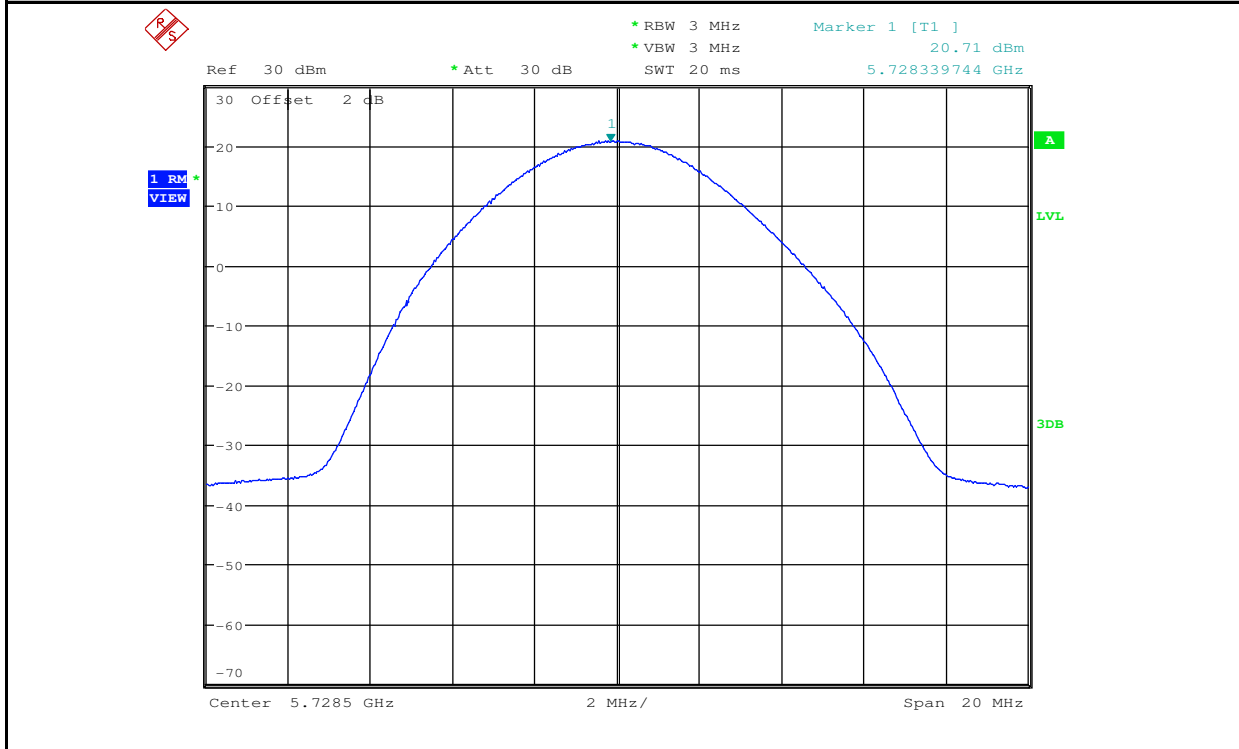
3.Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
1.4MHz BW	5728.5	Ant1	20.71	0	20.71	<30.00	PASS
1.4MHz BW	5728.5	Ant2	20.20	0	20.20	<30.00	PASS
1.4MHz BW	5788.5	Ant1	20.29	0	20.29	<30.00	PASS
1.4MHz BW	5788.5	Ant2	19.94	0	19.94	<30.00	PASS
1.4MHz BW	5846.5	Ant1	20.07	0	20.07	<30.00	PASS
1.4MHz BW	5846.5	Ant2	20.59	0	20.59	<30.00	PASS

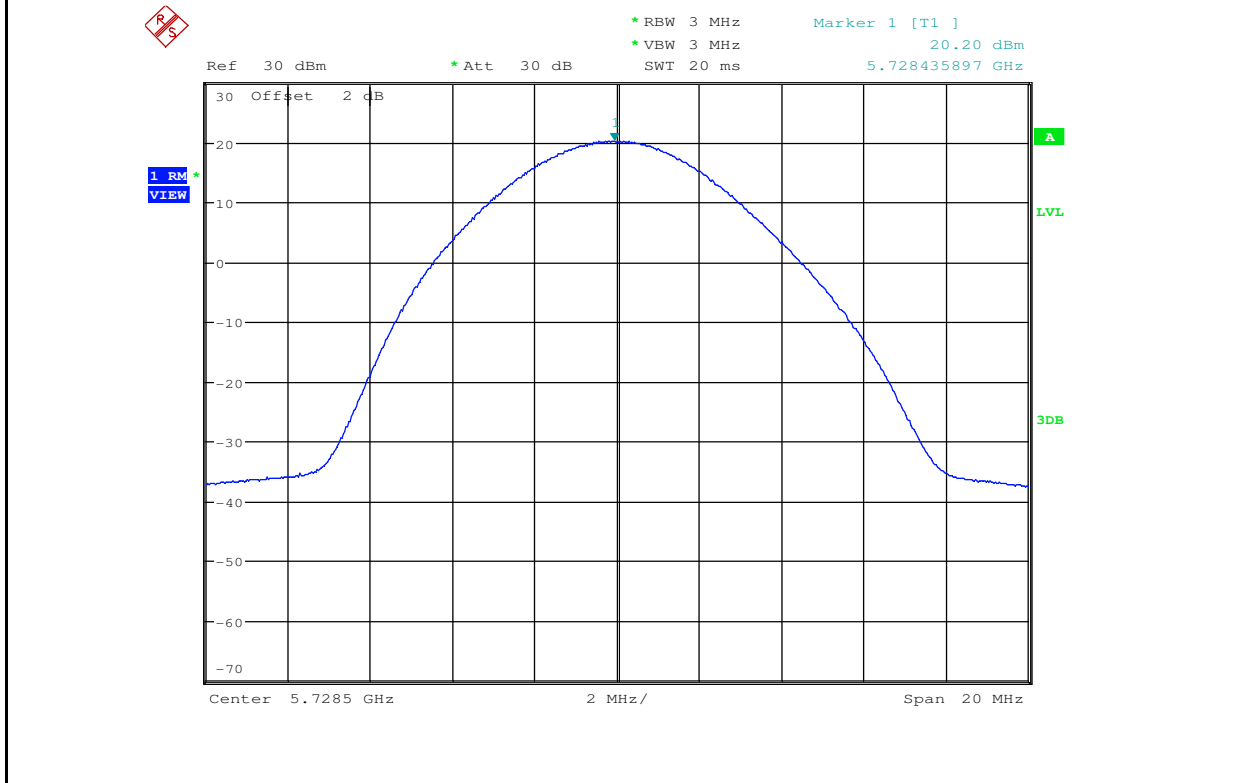


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Maximum Conduct Output Power_1.4MHz BW_5728.5_Ant1

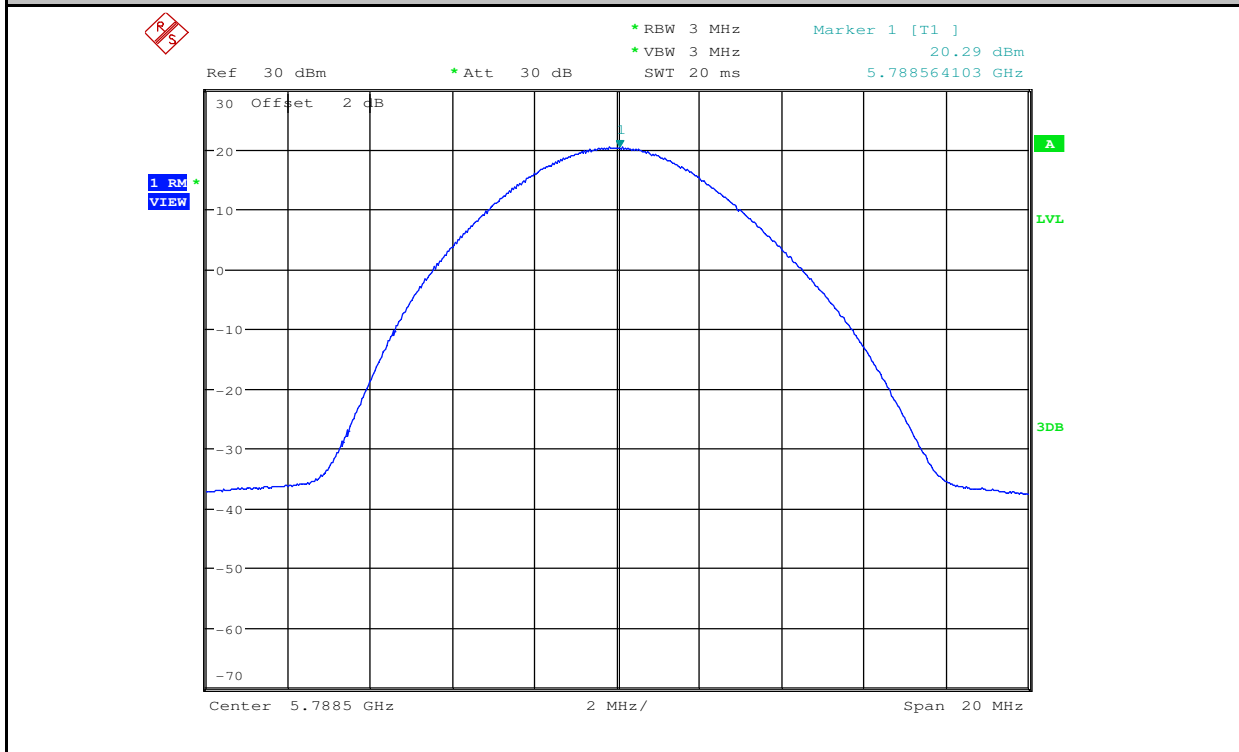


Maximum Conduct Output Power_1.4MHz BW_5728.5_Ant2

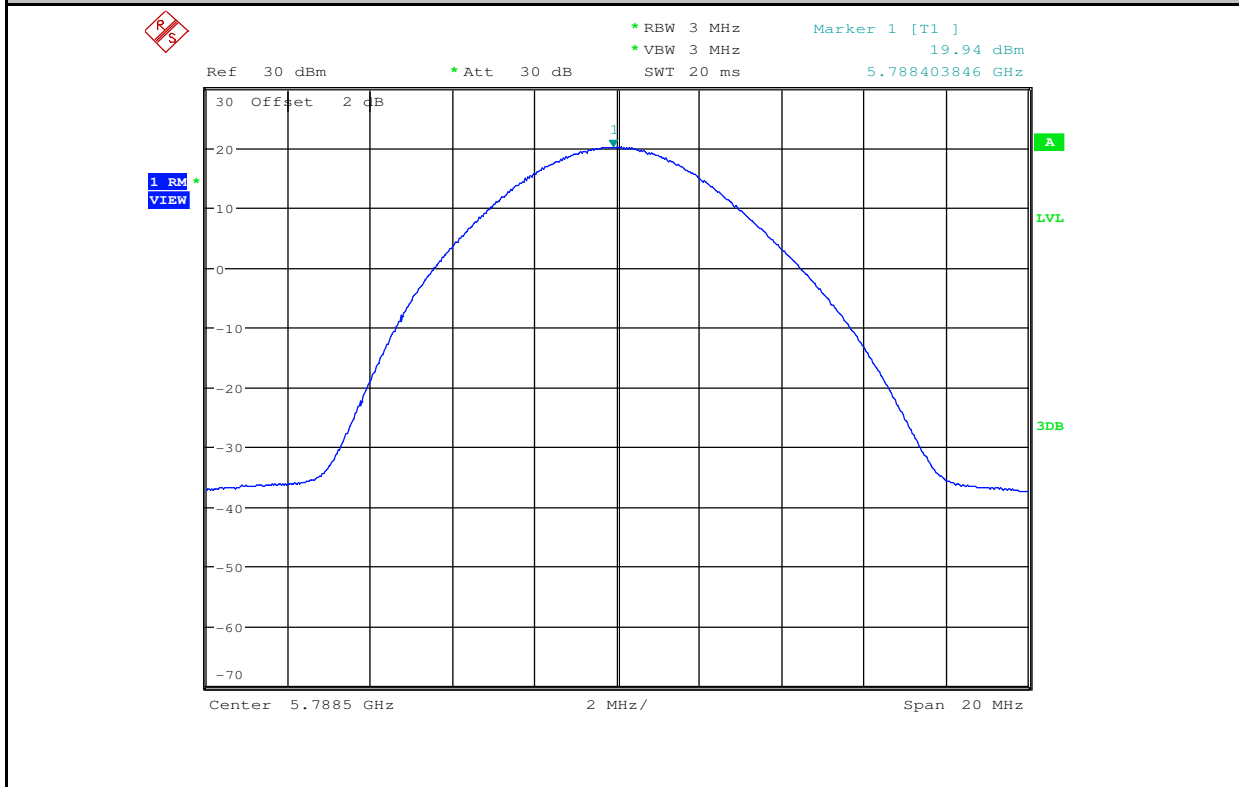


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Maximum Conduct Output Power_1.4MHz BW_5788.5_Ant1



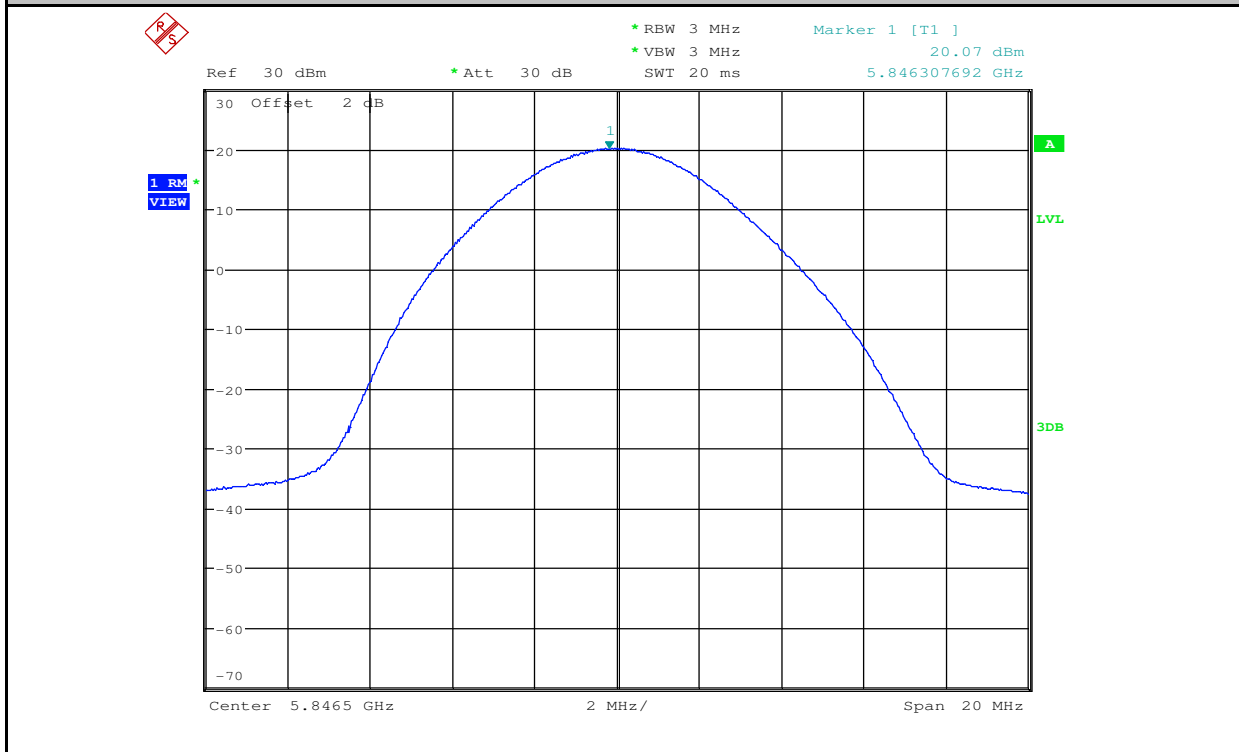
Maximum Conduct Output Power_1.4MHz BW_5788.5_Ant2



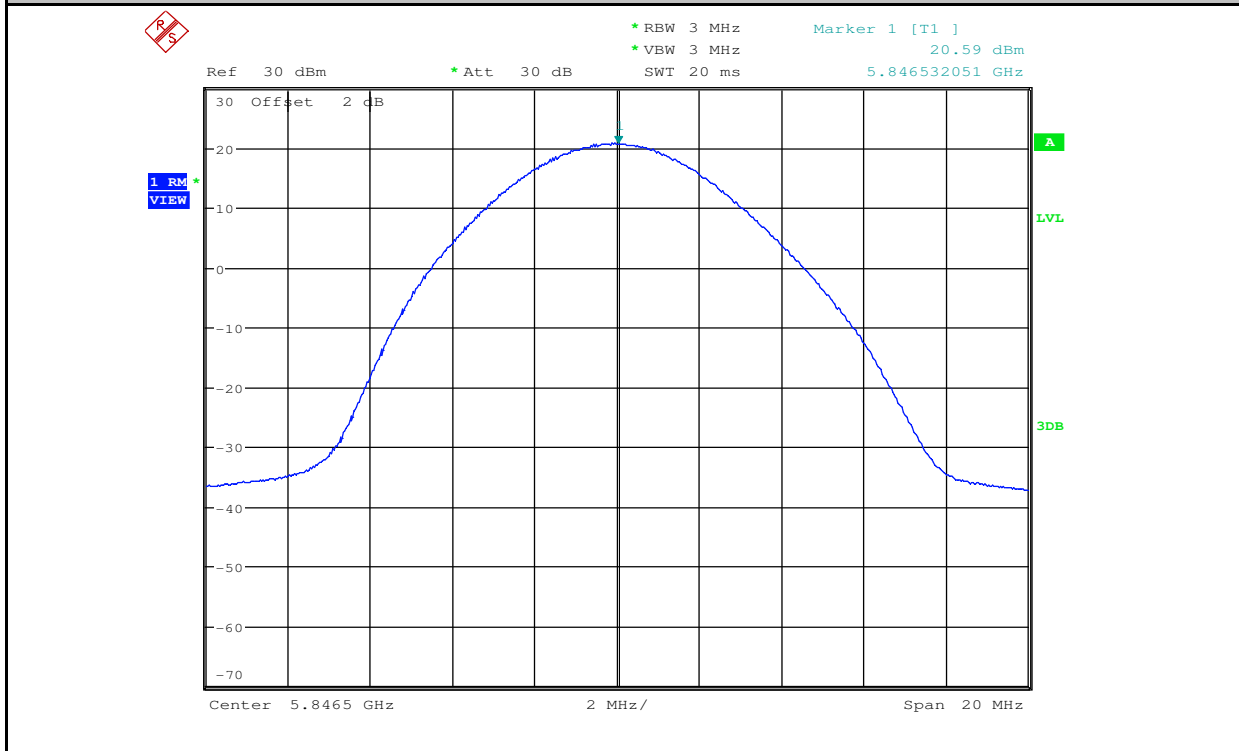
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Maximum Conduct Output Power_1.4MHz BW_5846.5_Ant1



Maximum Conduct Output Power_1.4MHz BW_5846.5_Ant2



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4. Maximum Power Spectral Density

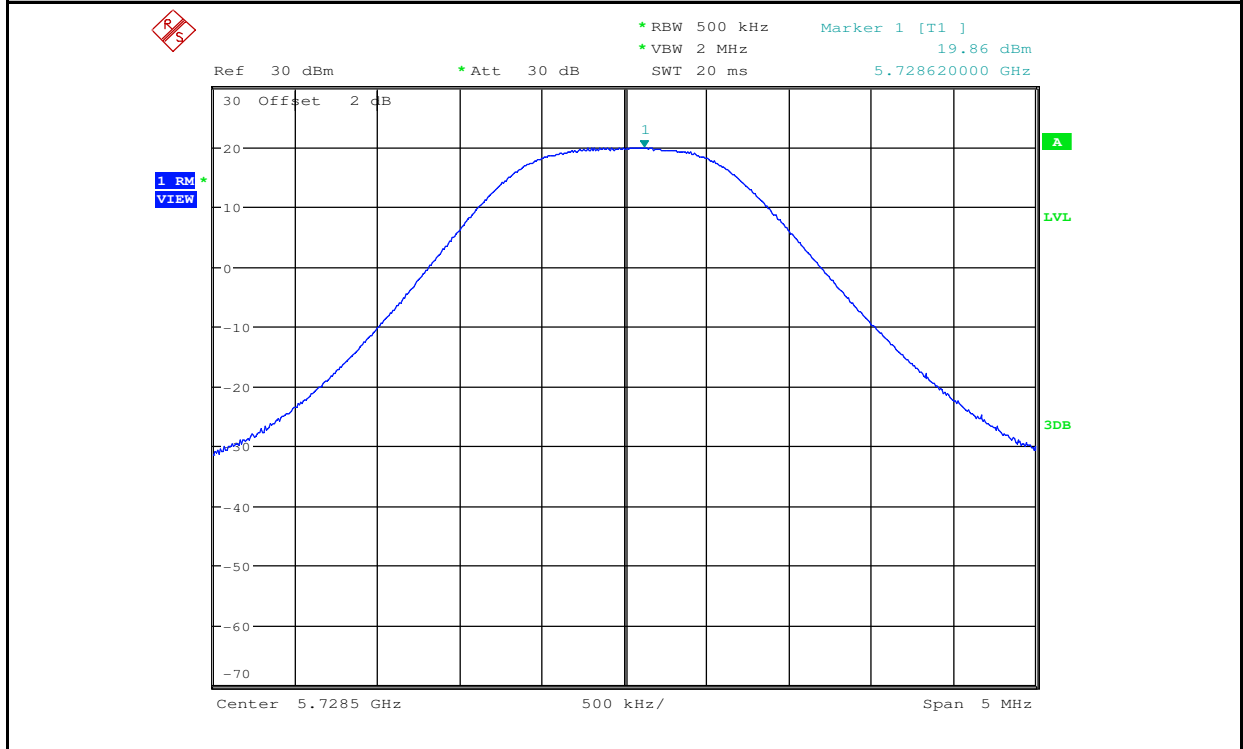
Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor[dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
1.4MHz BW	5728.5	Ant1	19.86	0	0	19.86	<30.00	PASS
1.4MHz BW	5728.5	Ant2	19.47	0	0	19.47	<30.00	PASS
1.4MHz BW	5788.5	Ant1	19.55	0	0	19.55	<30.00	PASS
1.4MHz BW	5788.5	Ant2	19.11	0	0	19.11	<30.00	PASS
1.4MHz BW	5846.5	Ant1	19.25	0	0	19.25	<30.00	PASS
1.4MHz BW	5846.5	Ant2	19.75	0	0	19.75	<30.00	PASS



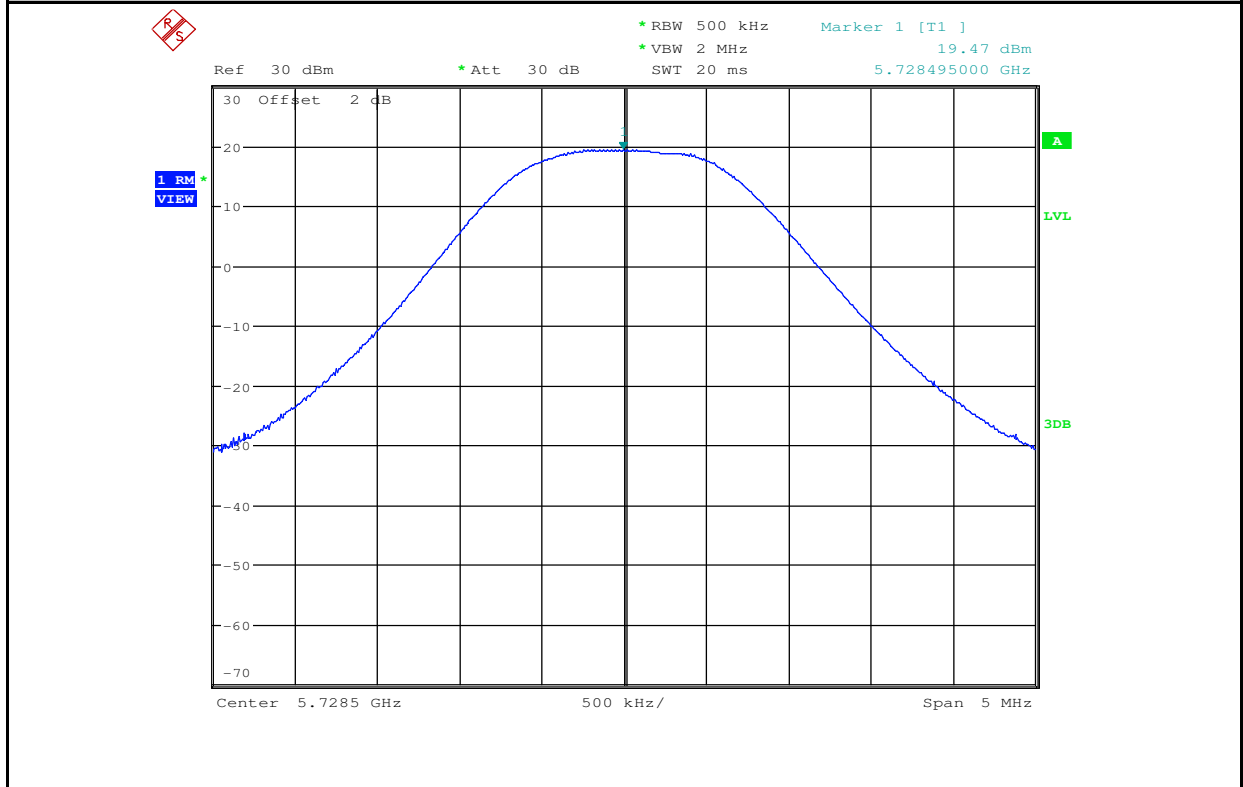
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Maximum Power Spectral Density_TNVN_1.4MHz BW_5728.5_Ant1

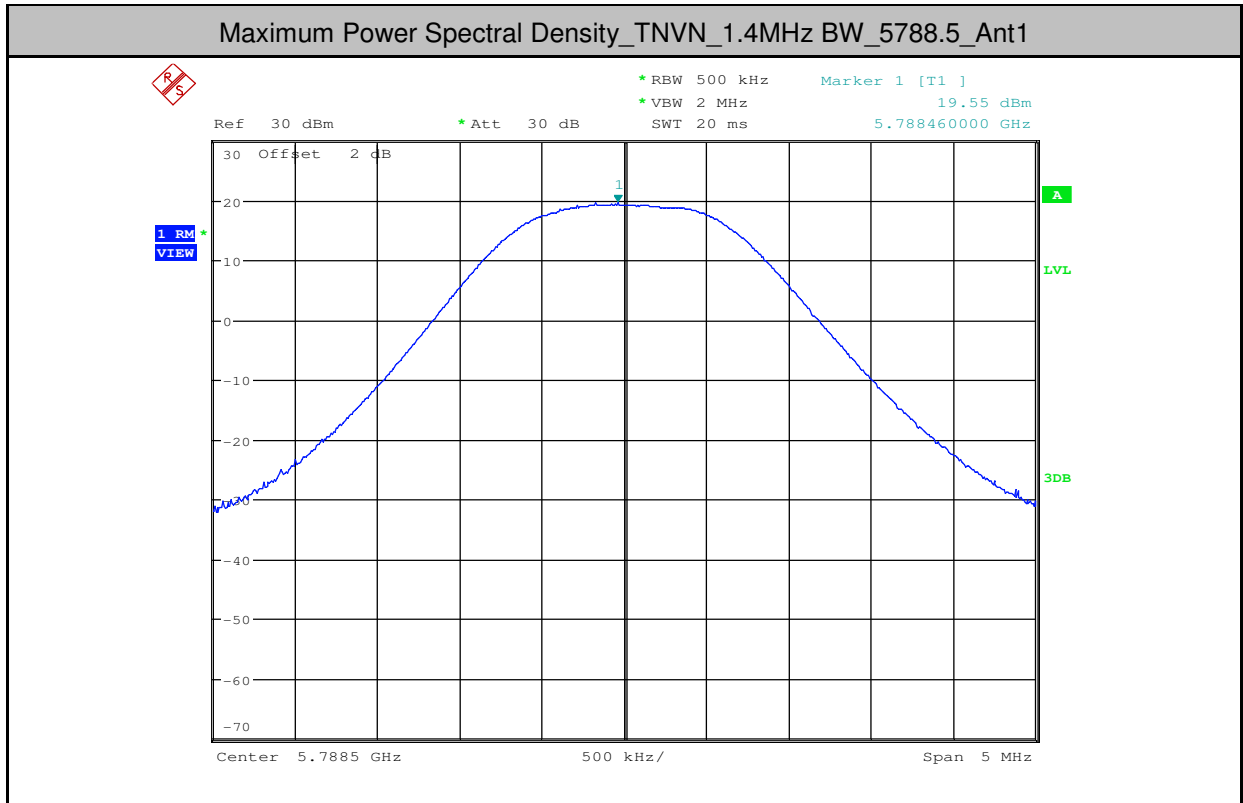


Maximum Power Spectral Density_TNVN_1.4MHz BW_5728.5_Ant2



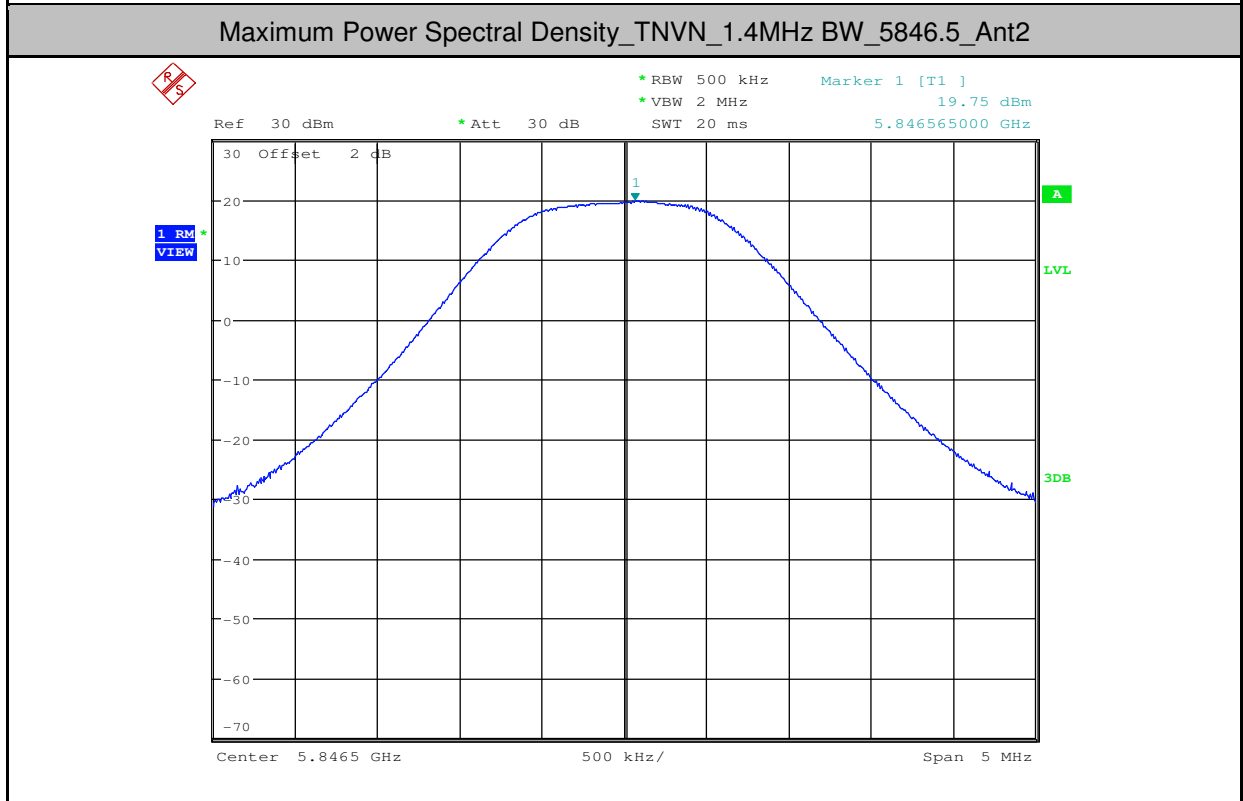
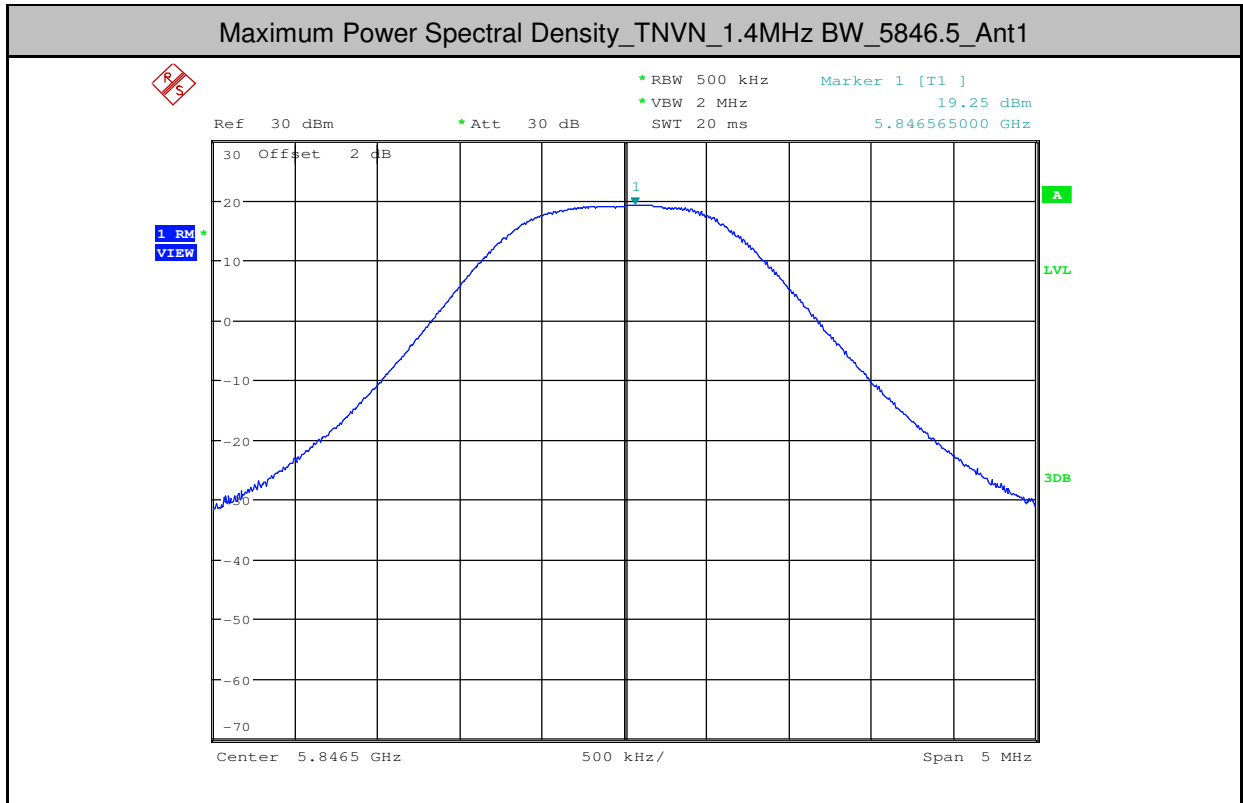
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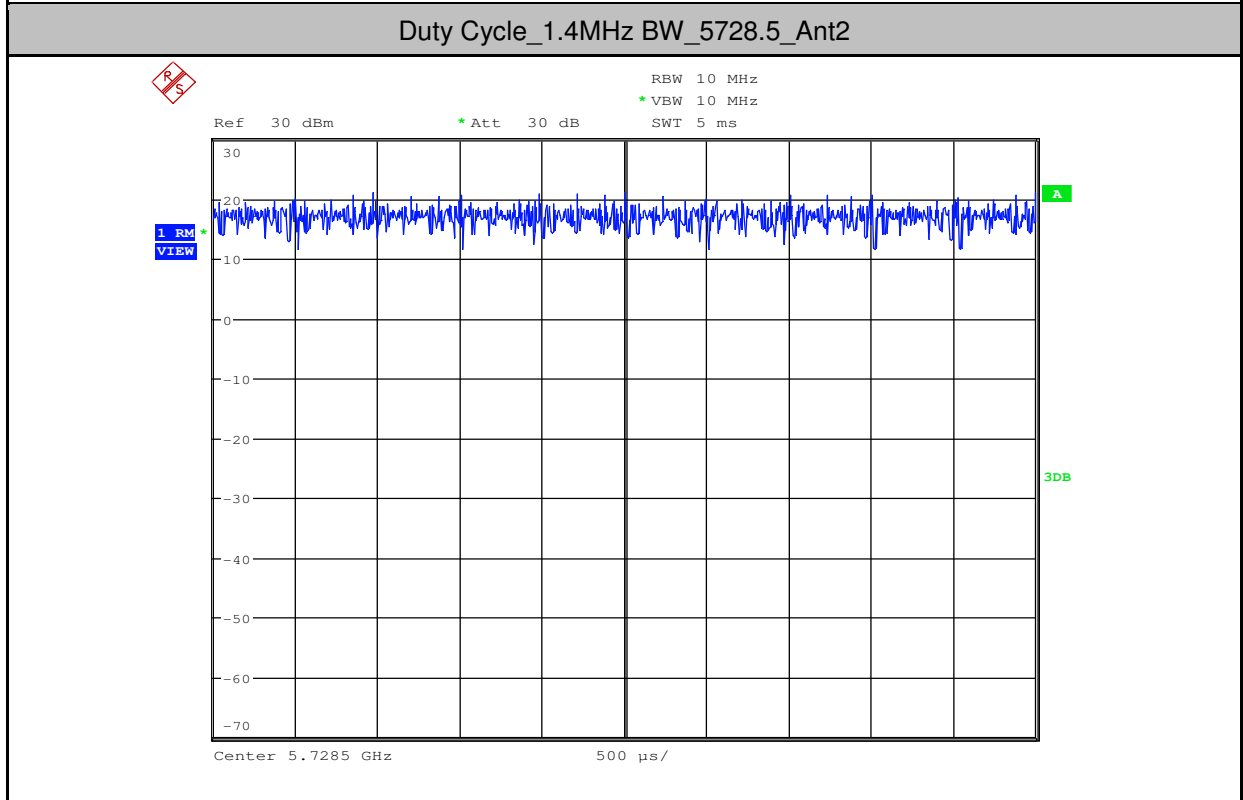
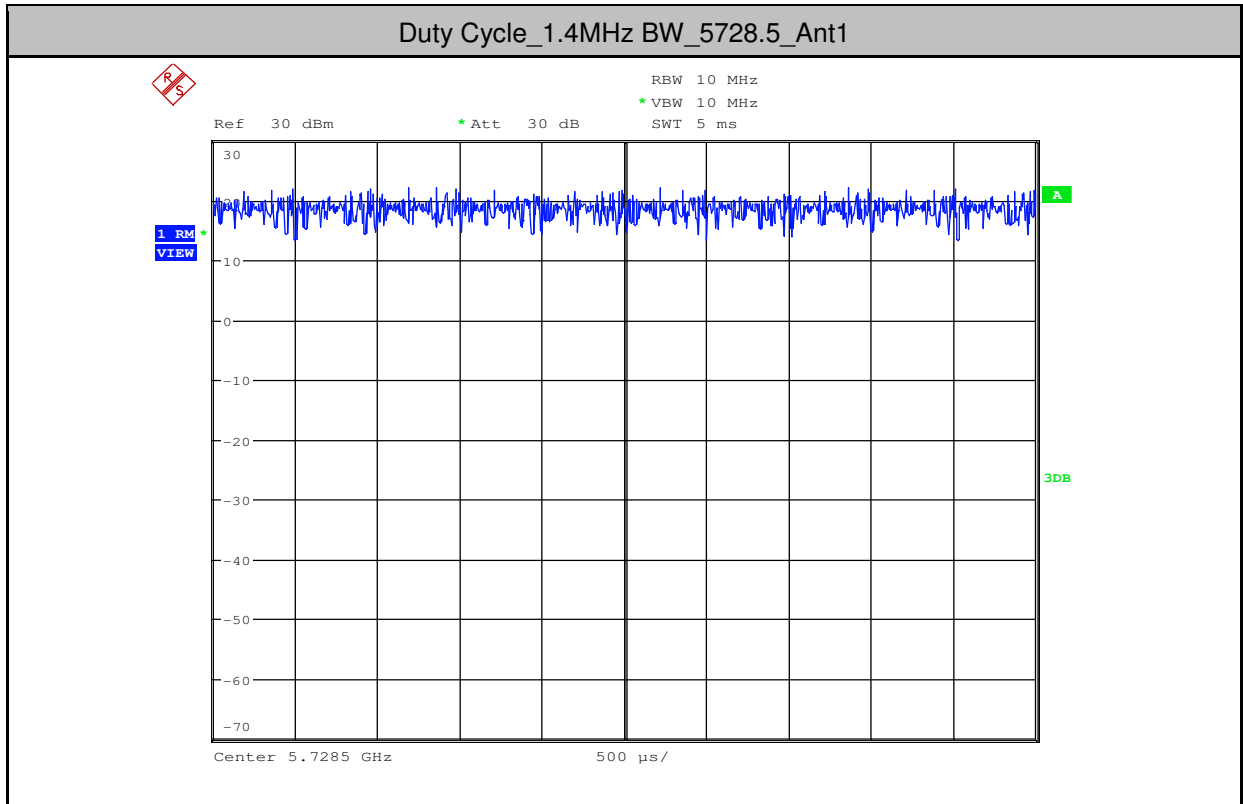
7.Duty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
1.4MHz BW	5728.5	Ant1	100	0
1.4MHz BW	5728.5	Ant2	100	0
1.4MHz BW	5788.5	Ant1	100	0
1.4MHz BW	5788.5	Ant2	100	0
1.4MHz BW	5846.5	Ant1	100	0
1.4MHz BW	5846.5	Ant2	100	0

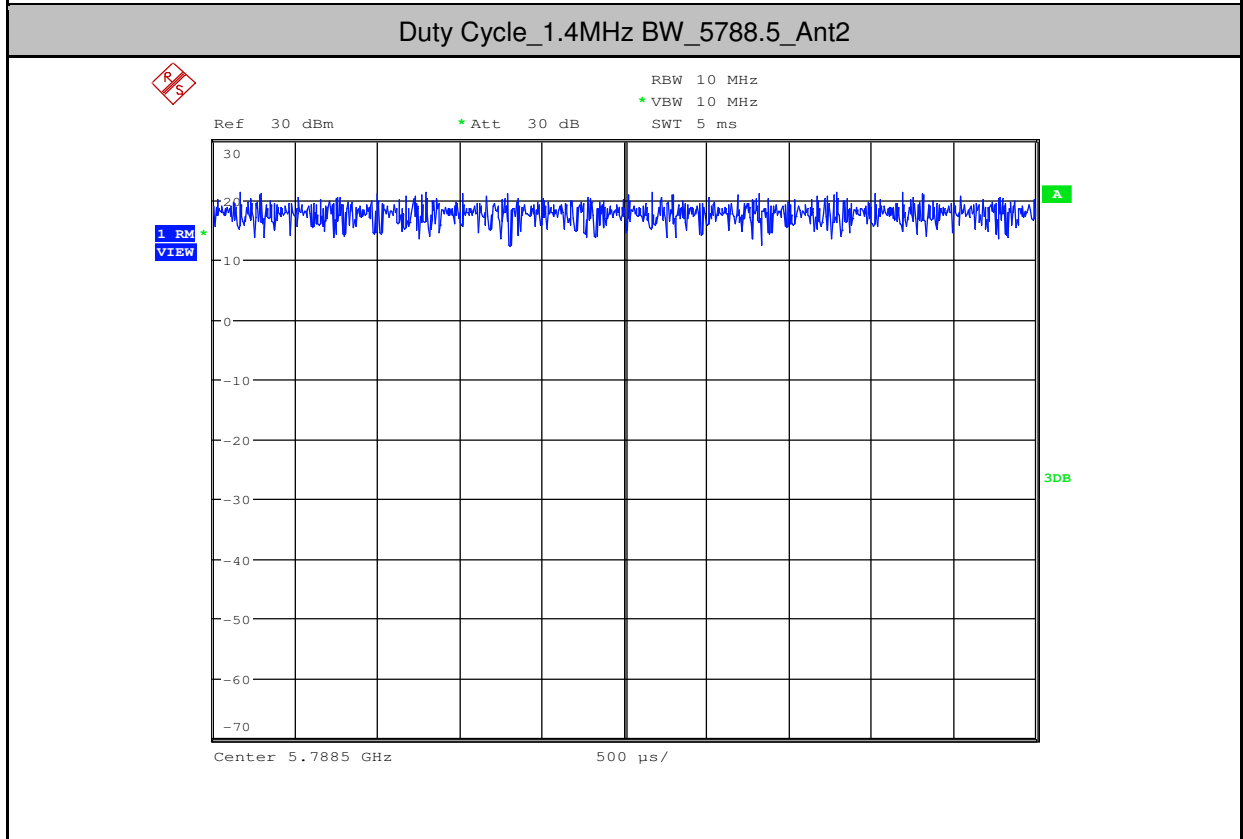
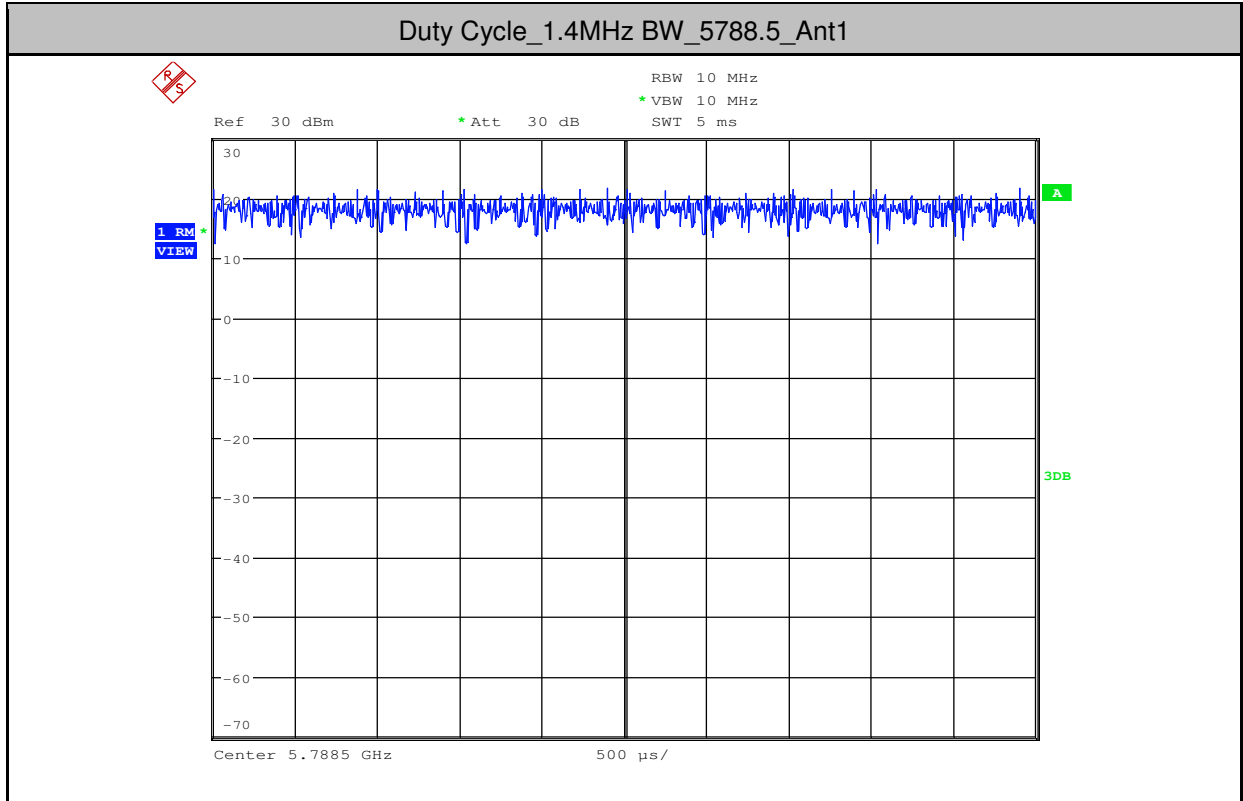


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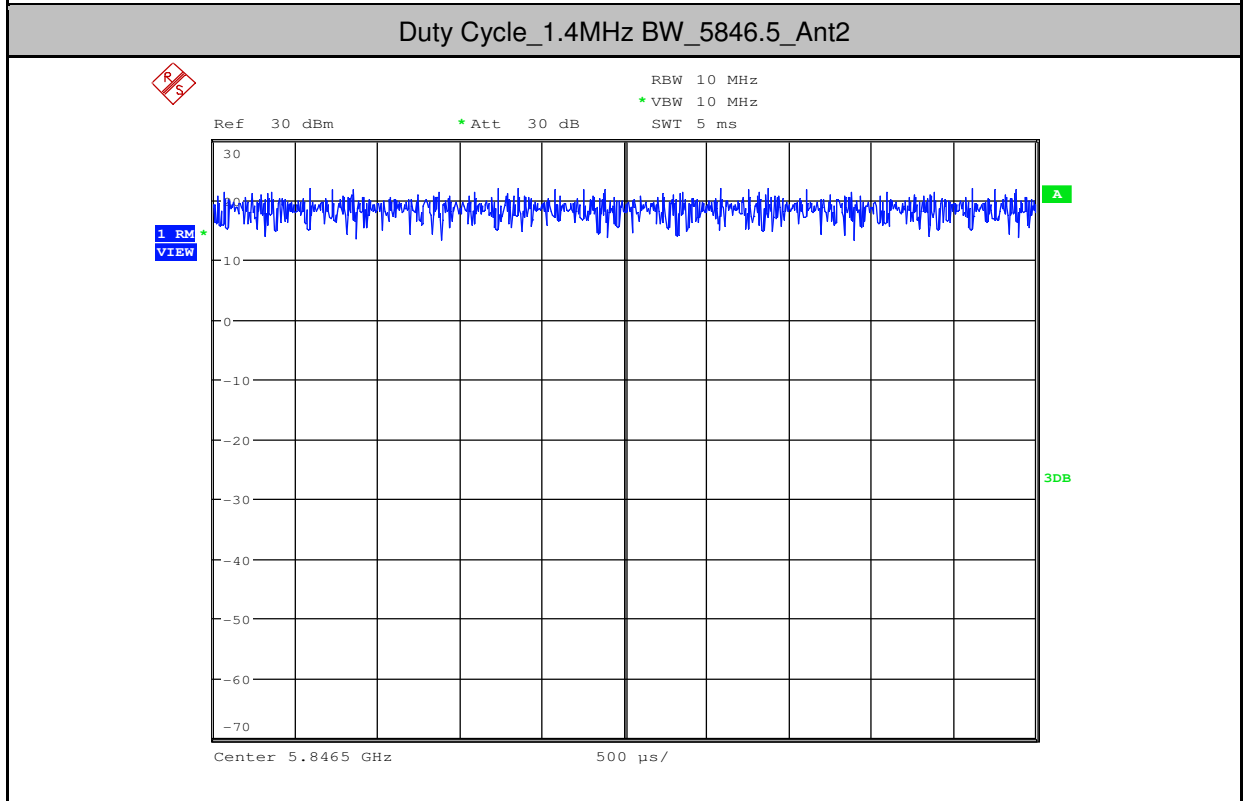
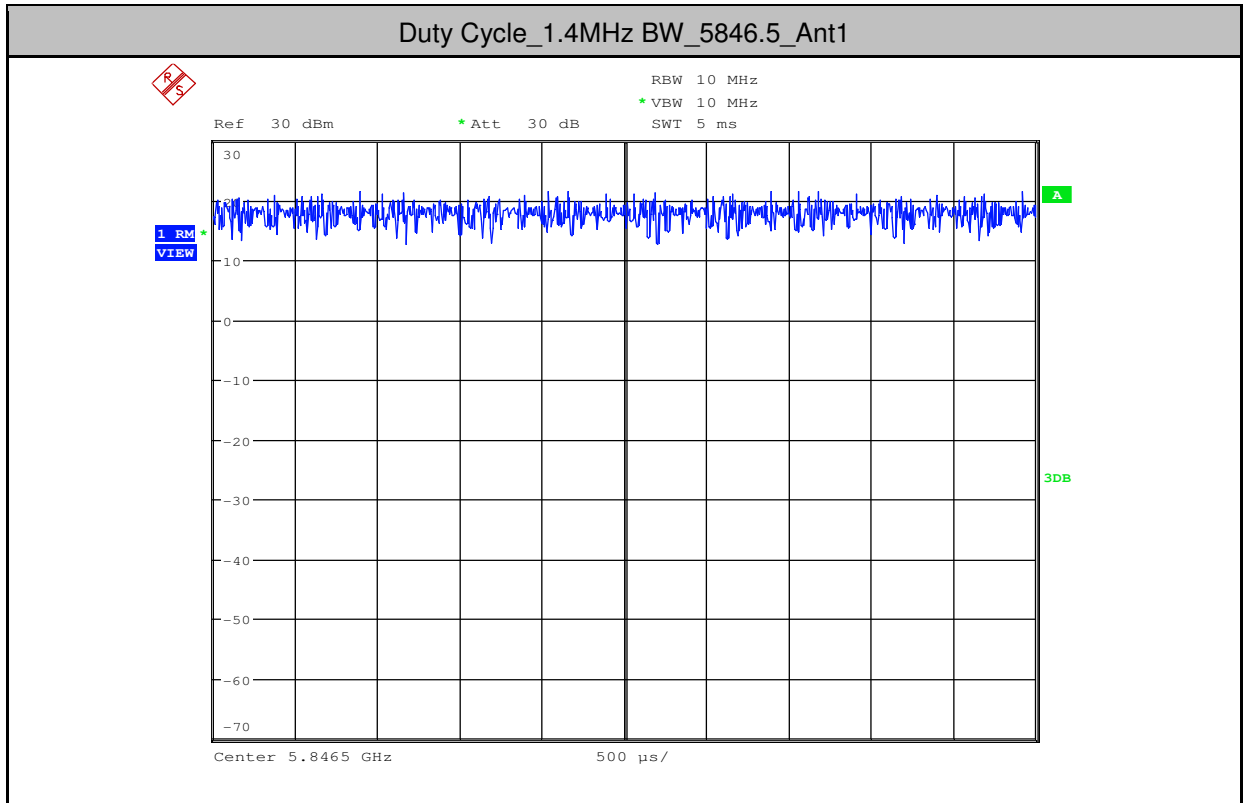


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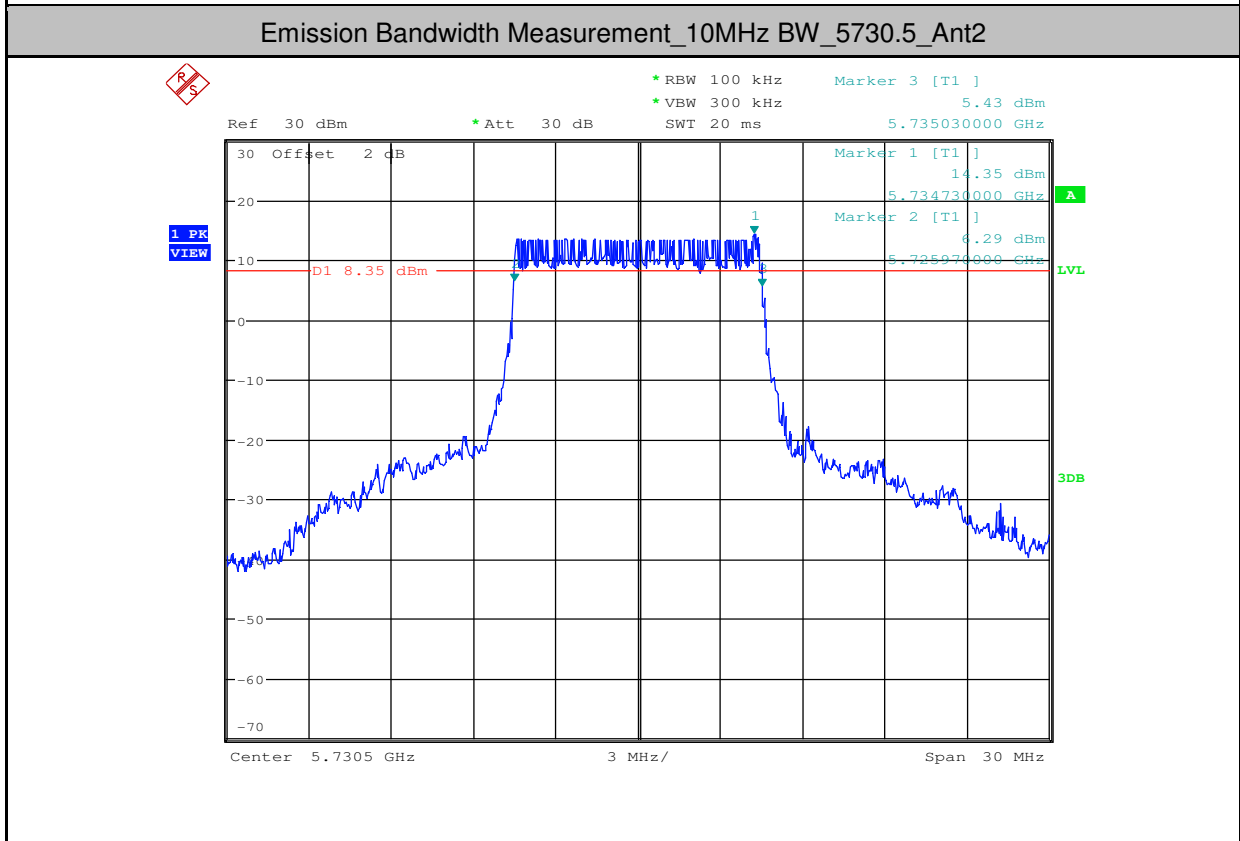
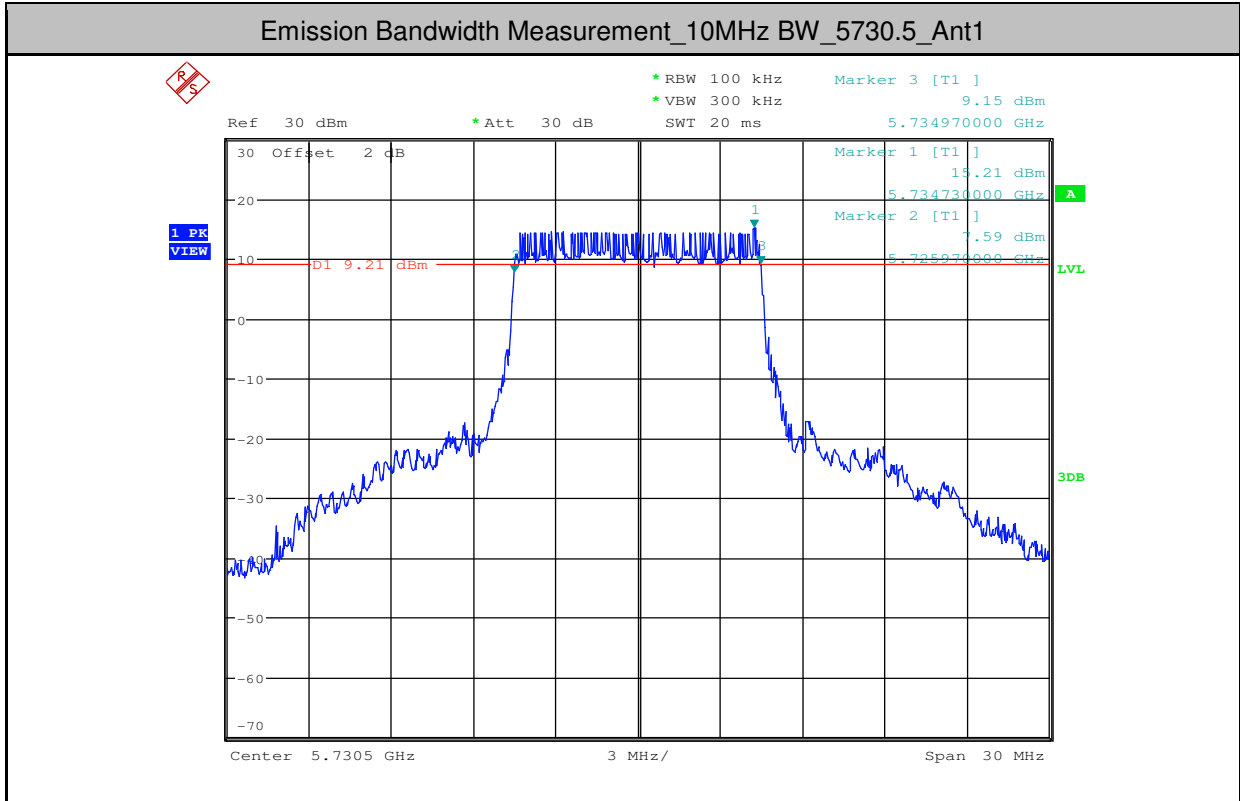
9.1.2 Appendix 15.407-10M

1.Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
10MHz BW	5730.5	Ant1	9.000	>=0.5	PASS
10MHz BW	5730.5	Ant2	9.060	>=0.5	PASS
10MHz BW	5787.5	Ant1	9.060	>=0.5	PASS
10MHz BW	5787.5	Ant2	9.060	>=0.5	PASS
10MHz BW	5844.5	Ant1	9.060	>=0.5	PASS
10MHz BW	5844.5	Ant2	9.060	>=0.5	PASS



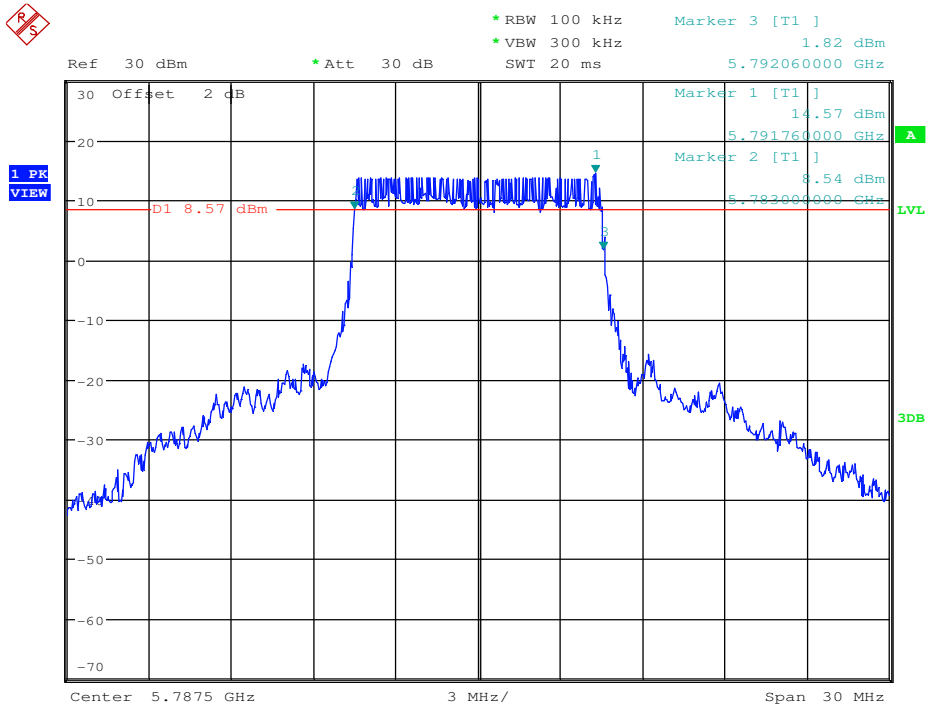
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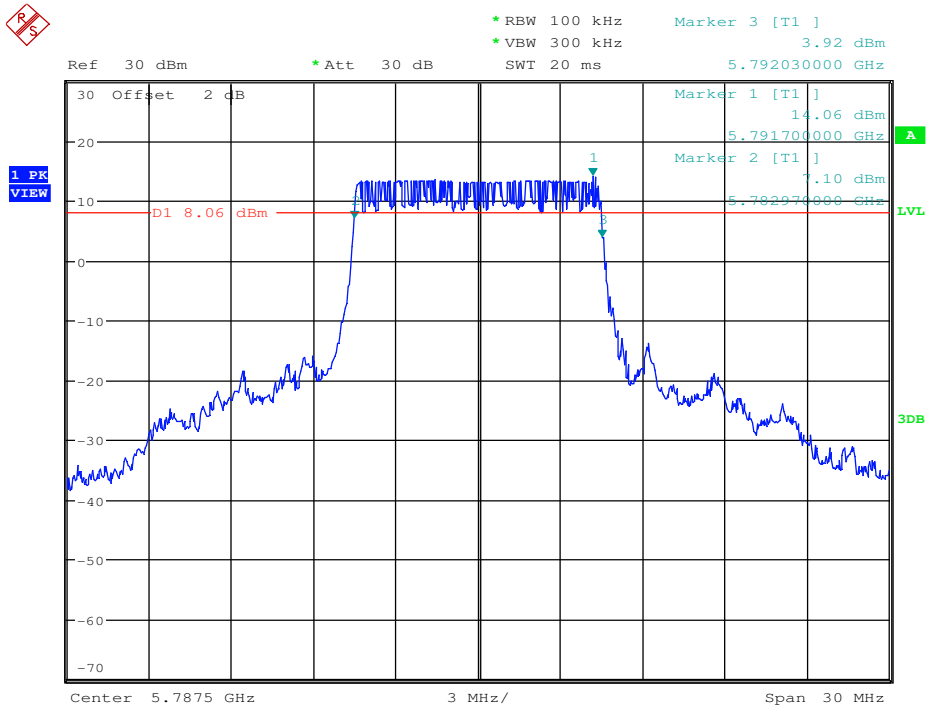
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Emission Bandwidth Measurement_10MHz BW_5787.5_Ant1



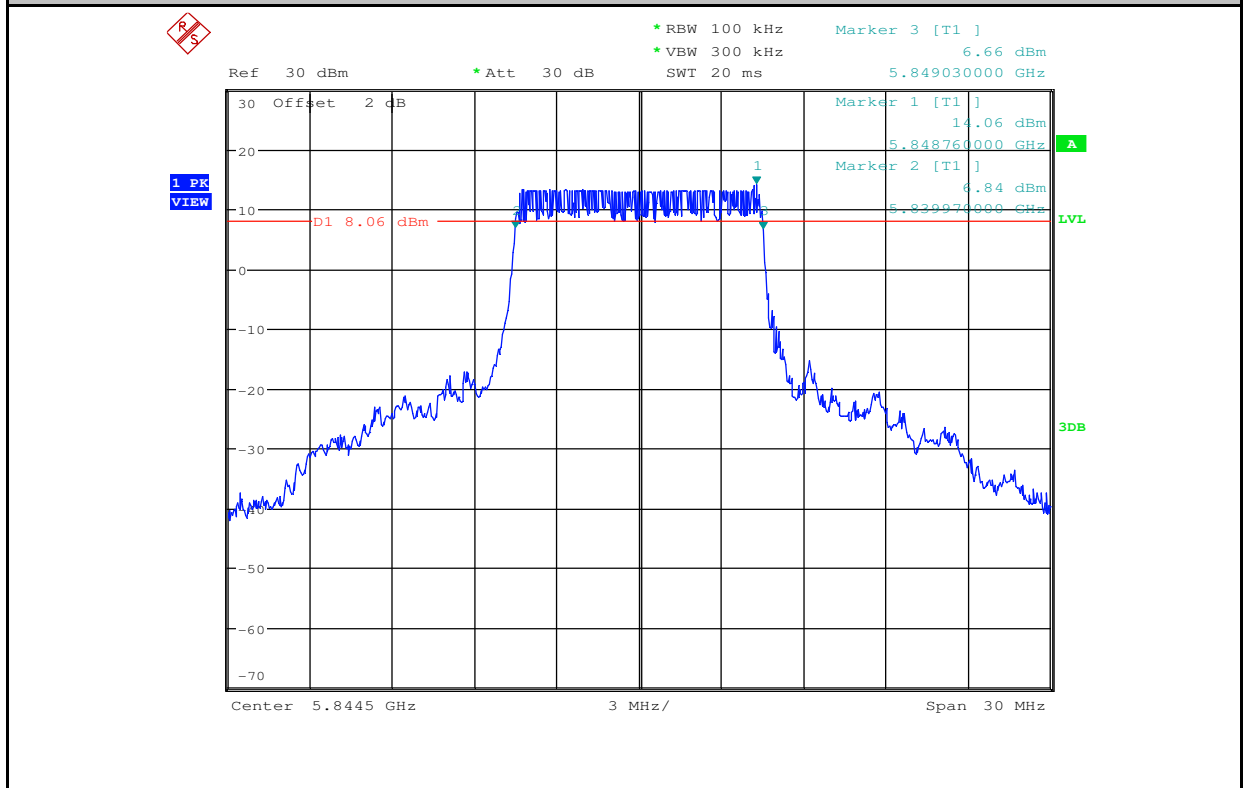
Emission Bandwidth Measurement_10MHz BW_5787.5_Ant2



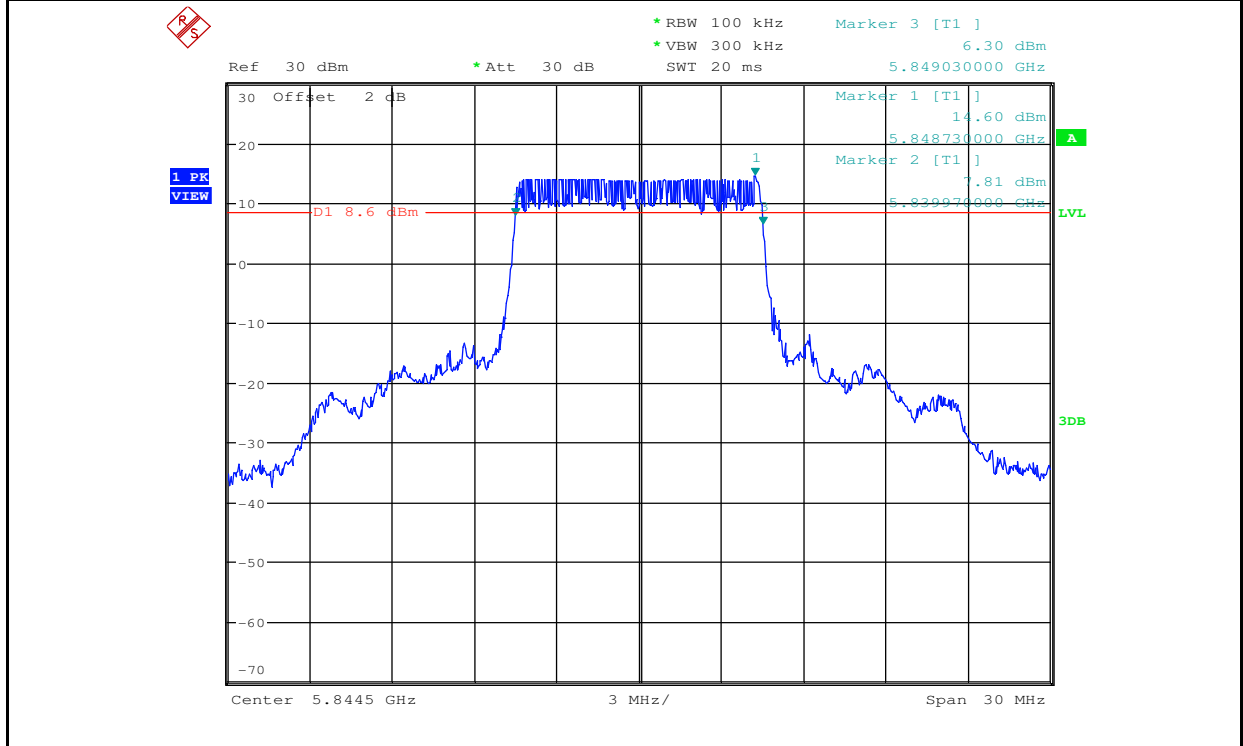
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Emission Bandwidth Measurement_10MHz BW_5844.5_Ant1



Emission Bandwidth Measurement_10MHz BW_5844.5_Ant2



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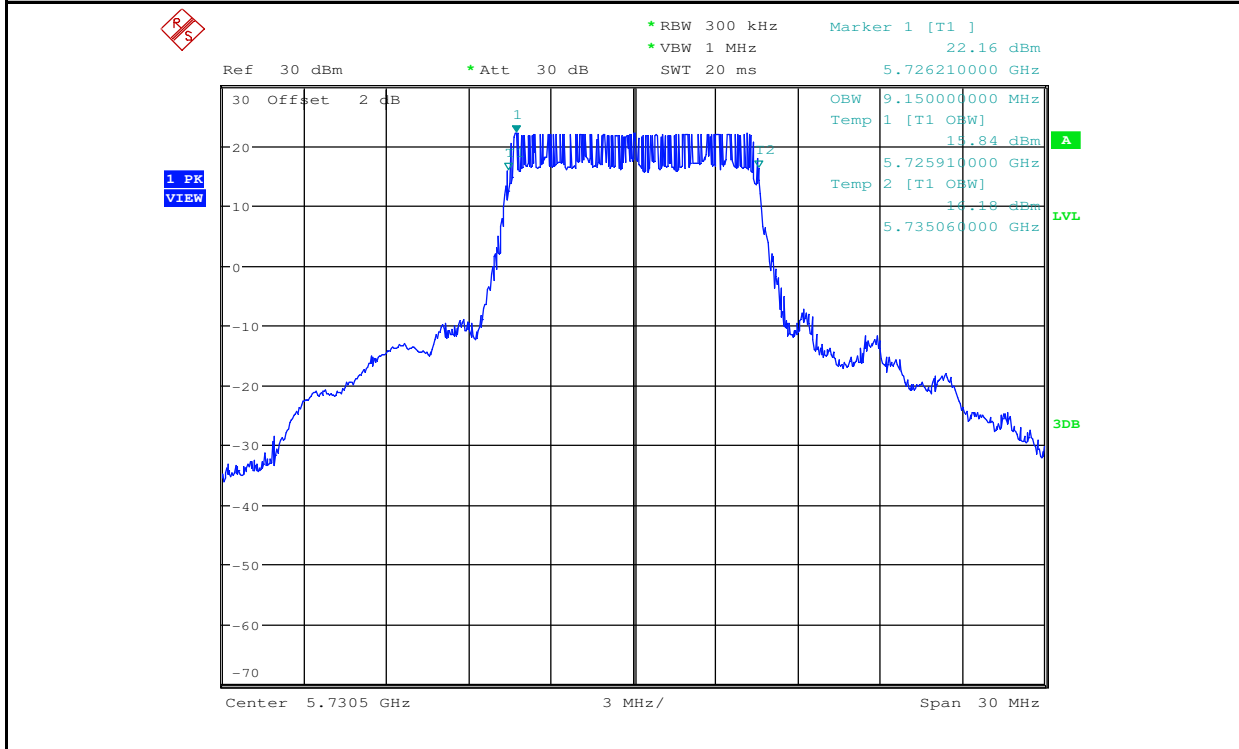
2.Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
10MHz BW	5730.5	Ant1	9.150	---	PASS
10MHz BW	5730.5	Ant2	9.090	---	PASS
10MHz BW	5787.5	Ant1	9.150	---	PASS
10MHz BW	5787.5	Ant2	9.120	---	PASS
10MHz BW	5844.5	Ant1	9.120	---	PASS
10MHz BW	5844.5	Ant2	9.150	---	PASS

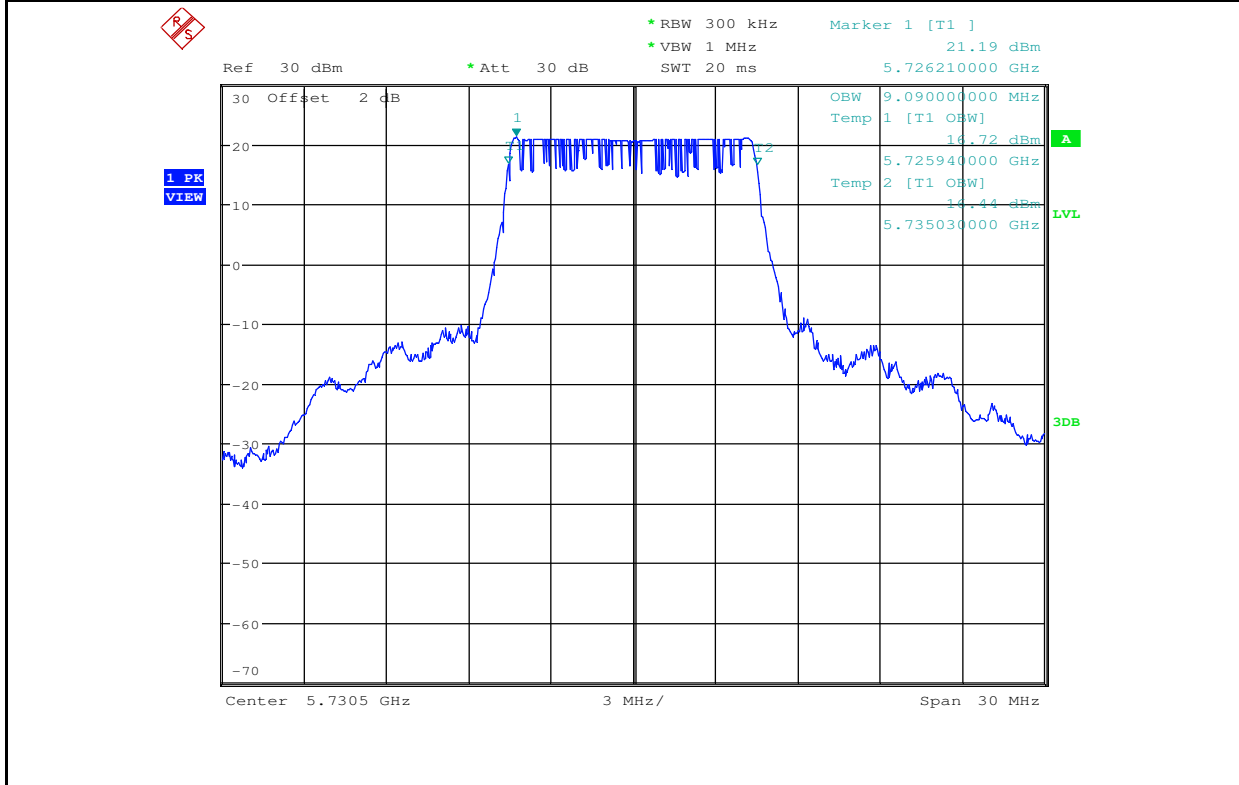


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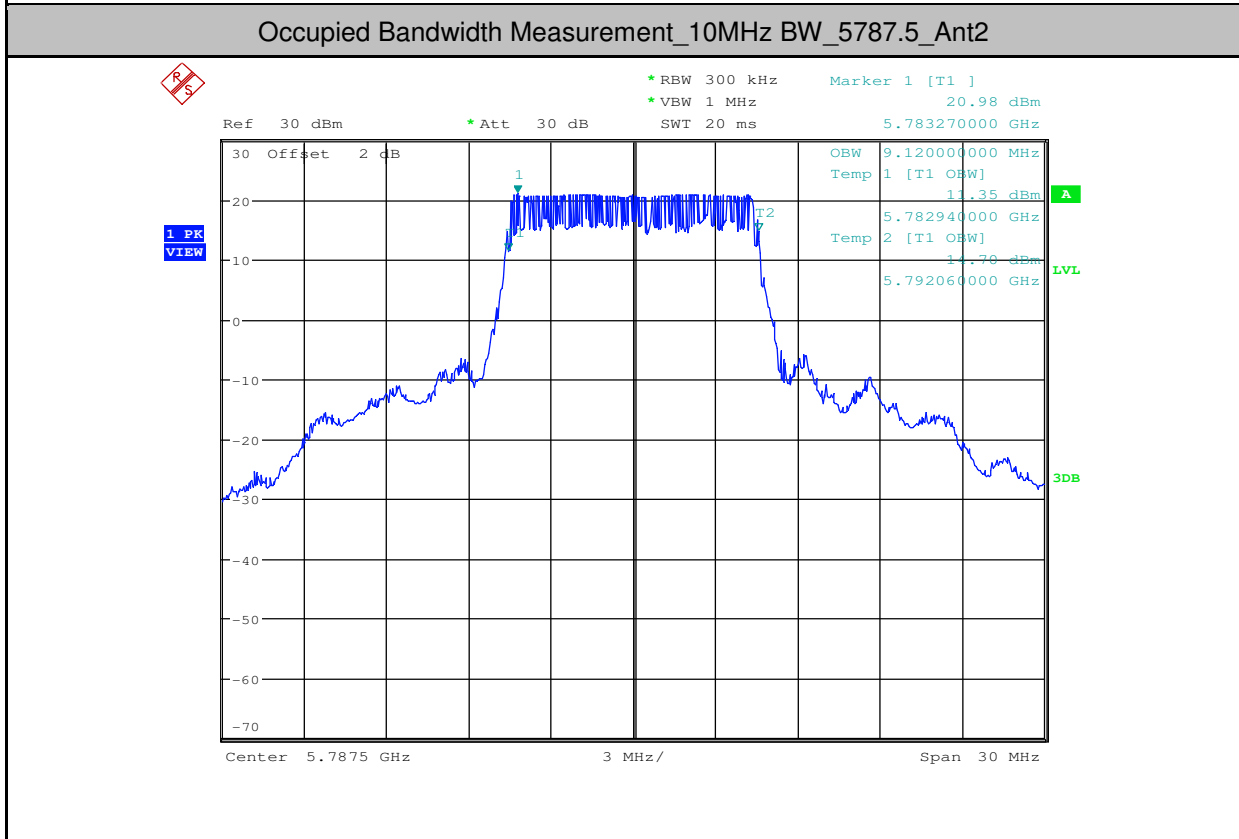
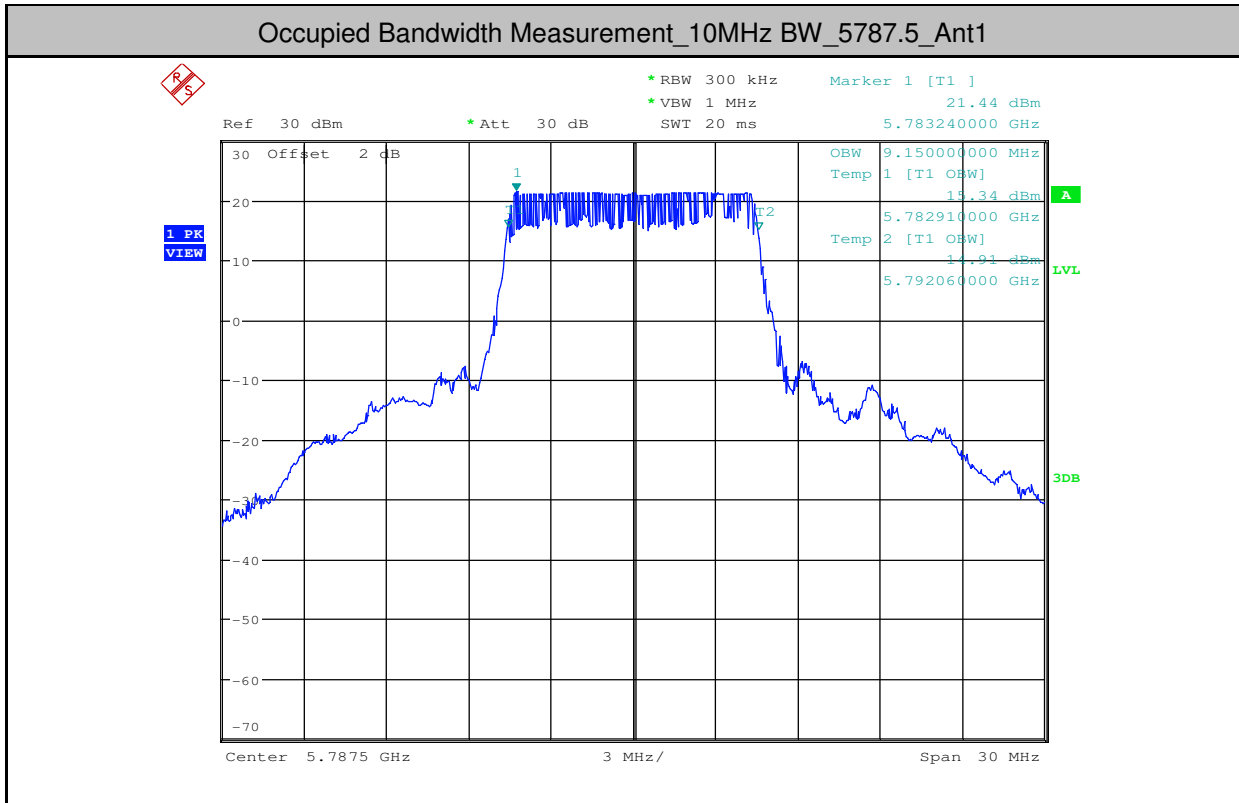
Occupied Bandwidth Measurement_10MHz BW_5730.5_Ant1



Occupied Bandwidth Measurement_10MHz BW_5730.5_Ant2

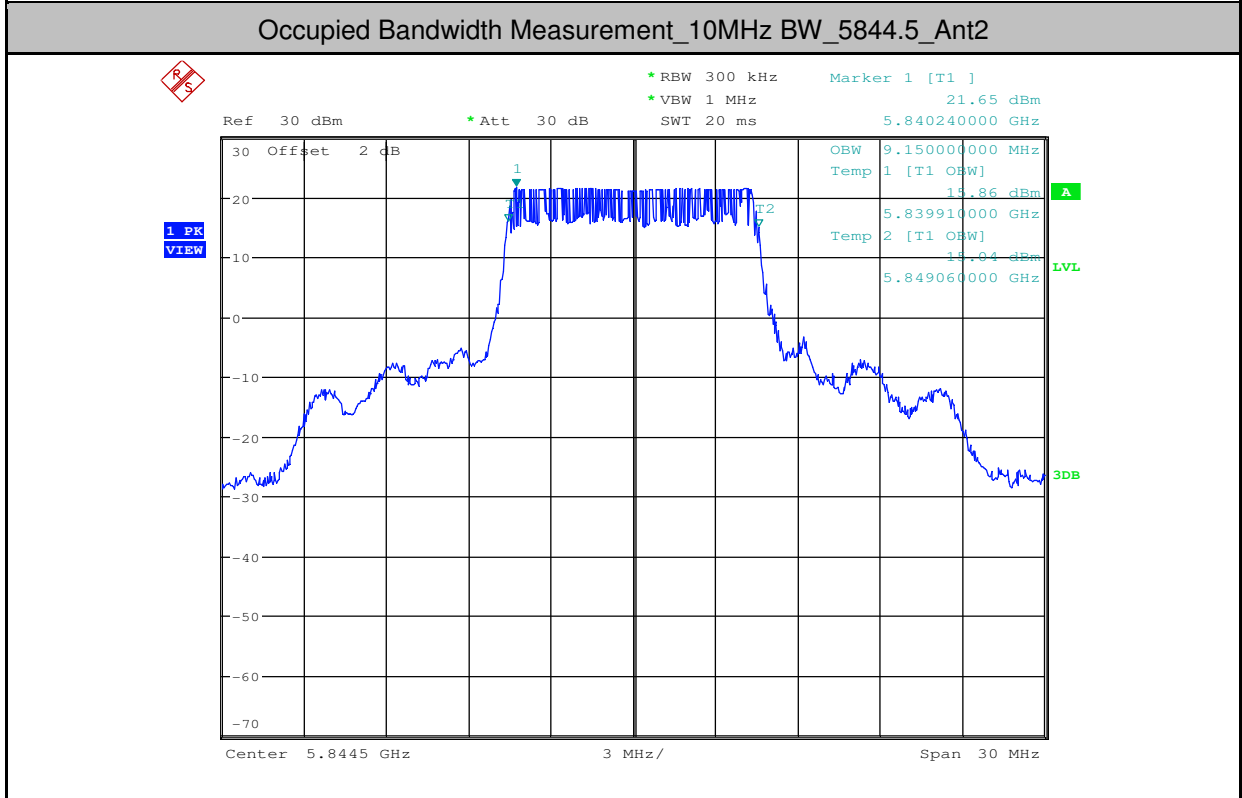
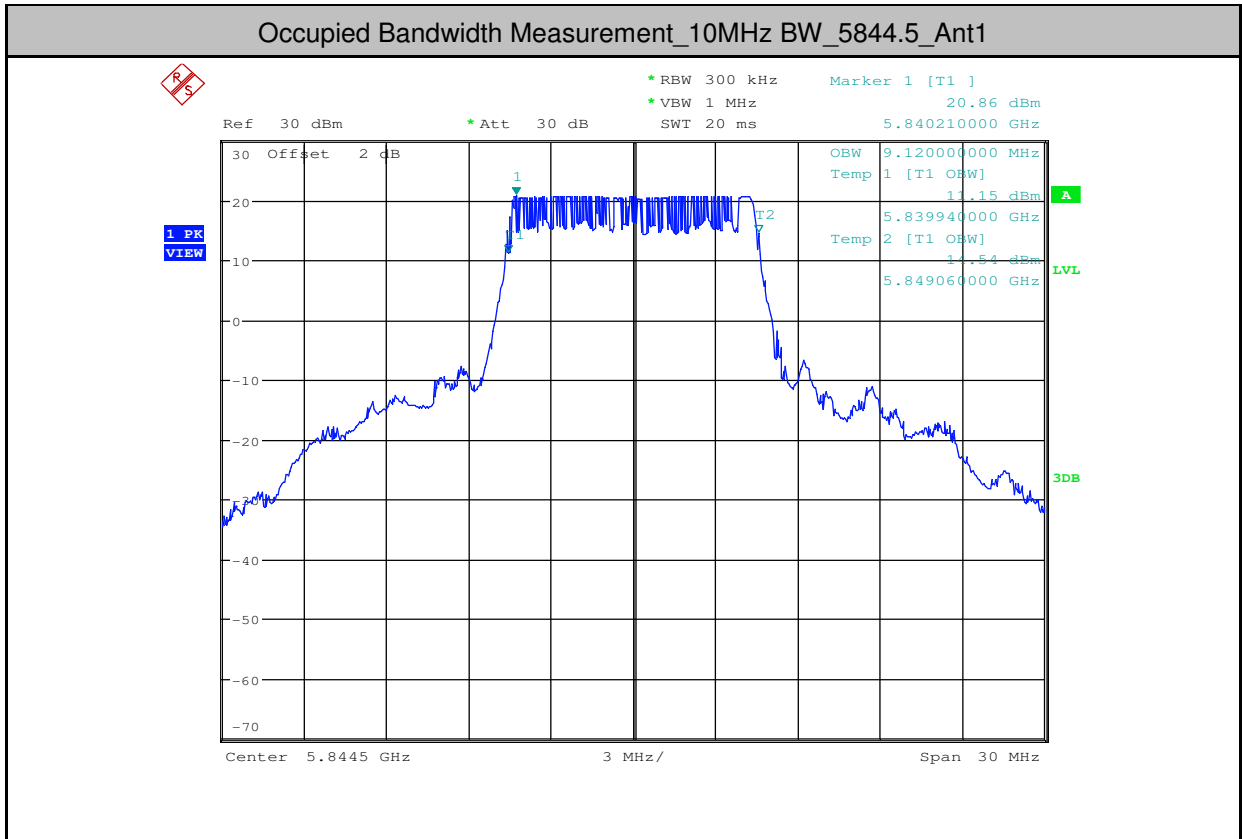


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3.Maximum Conduct Output Power

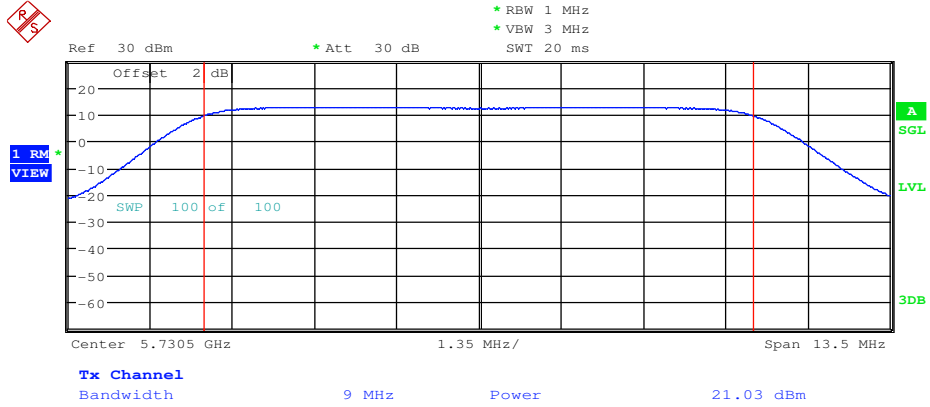
Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
10MHz BW	5730.5	Ant1	21.03	0	21.03	<30.00	PASS
10MHz BW	5730.5	Ant2	20.73	0	20.73	<30.00	PASS
10MHz BW	5787.5	Ant1	21.11	0	21.11	<30.00	PASS
10MHz BW	5787.5	Ant2	20.72	0	20.72	<30.00	PASS
10MHz BW	5844.5	Ant1	20.57	0	20.57	<30.00	PASS
10MHz BW	5844.5	Ant2	21.26	0	21.26	<30.00	PASS



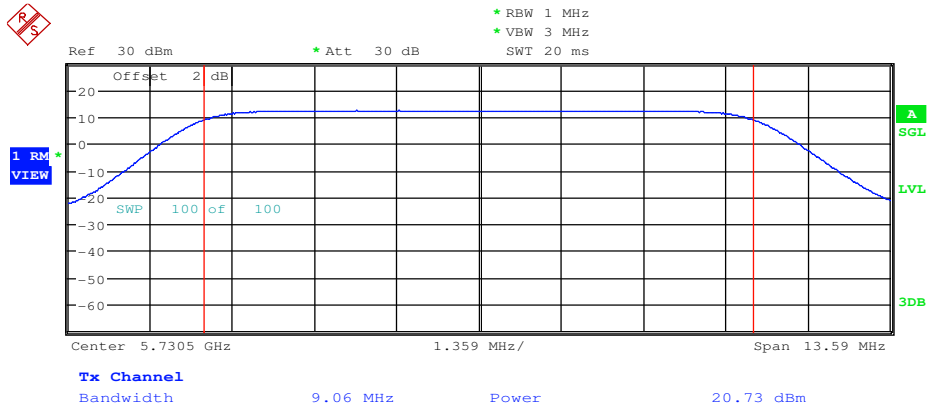
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Maximum Conduct Output Power_10MHz BW_5730.5_Ant1



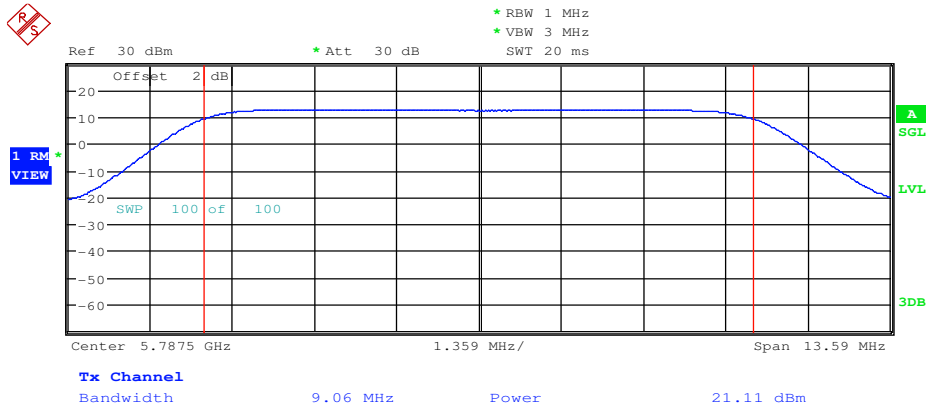
Maximum Conduct Output Power_10MHz BW_5730.5_Ant2



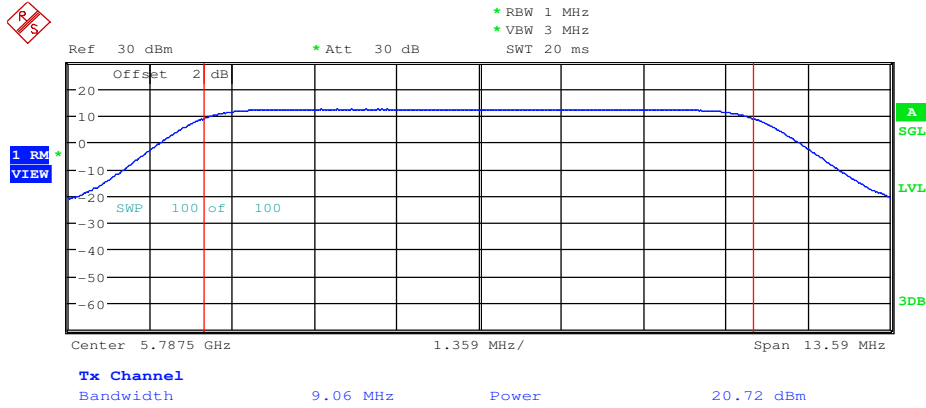
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Maximum Conduct Output Power_10MHz BW_5787.5_Ant1



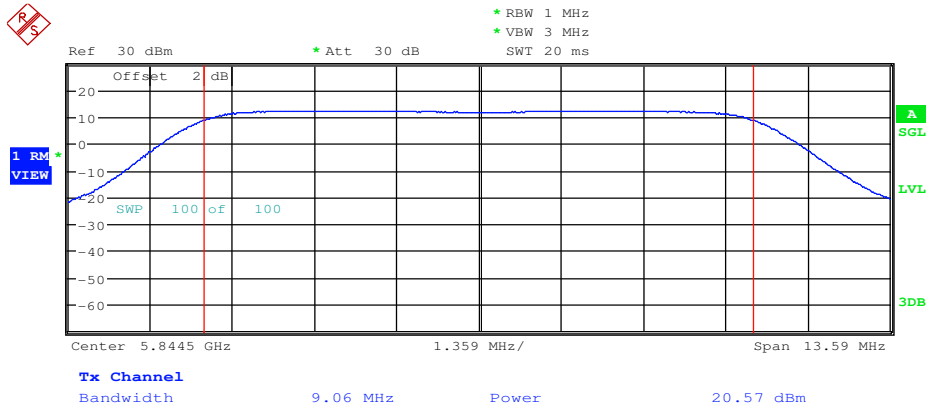
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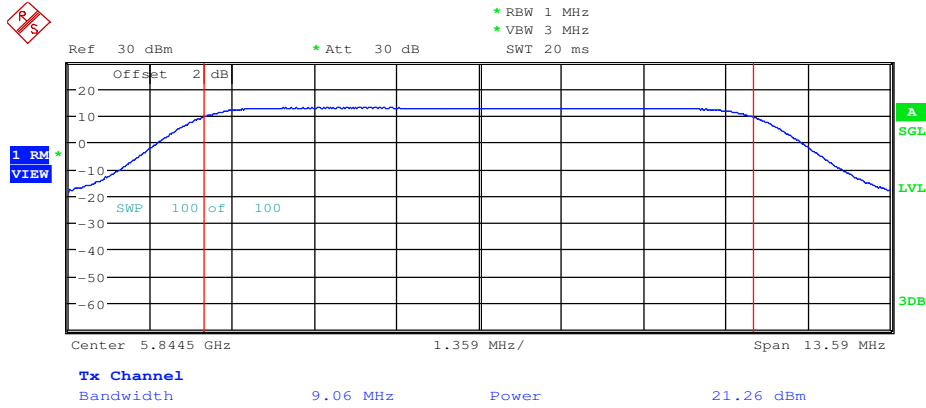
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Maximum Conduct Output Power_10MHz BW_5844.5_Ant1



Maximum Conduct Output Power_10MHz BW_5844.5_Ant2



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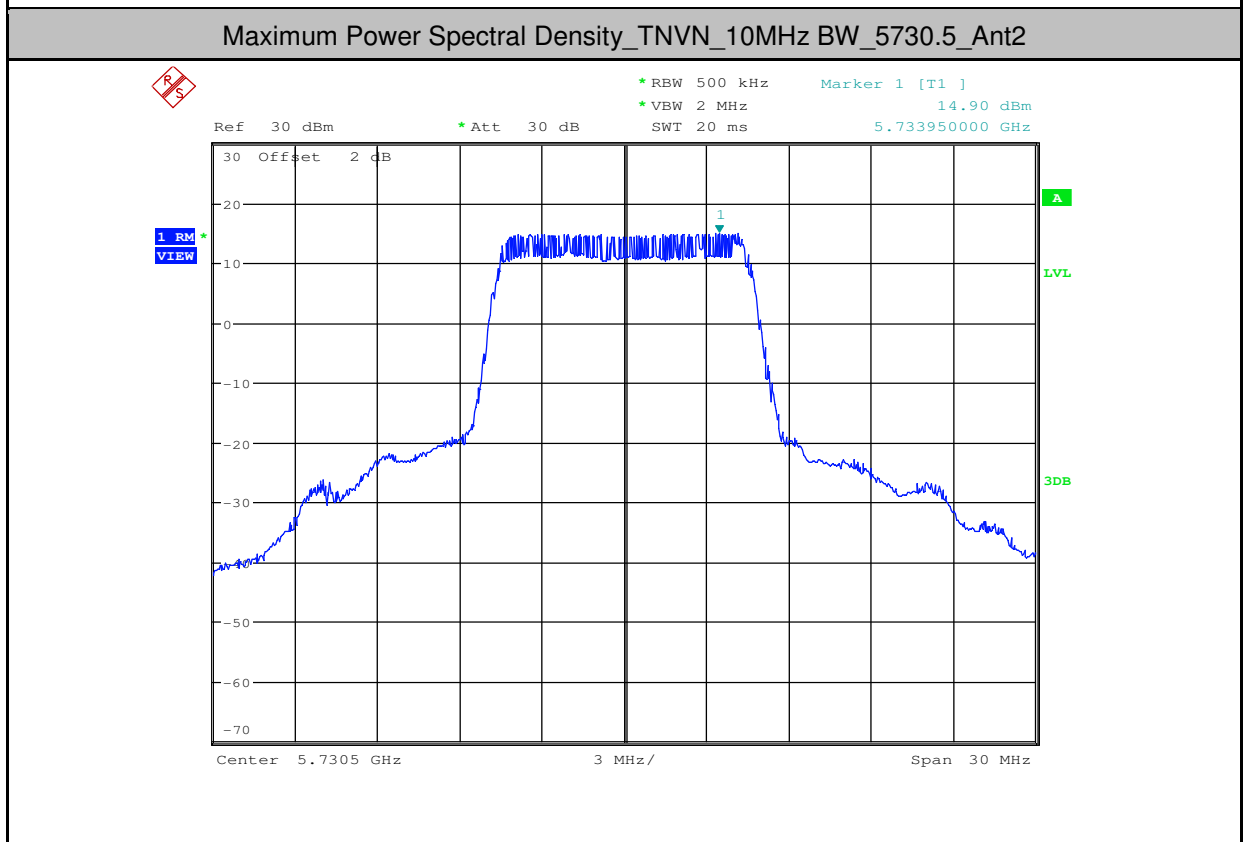
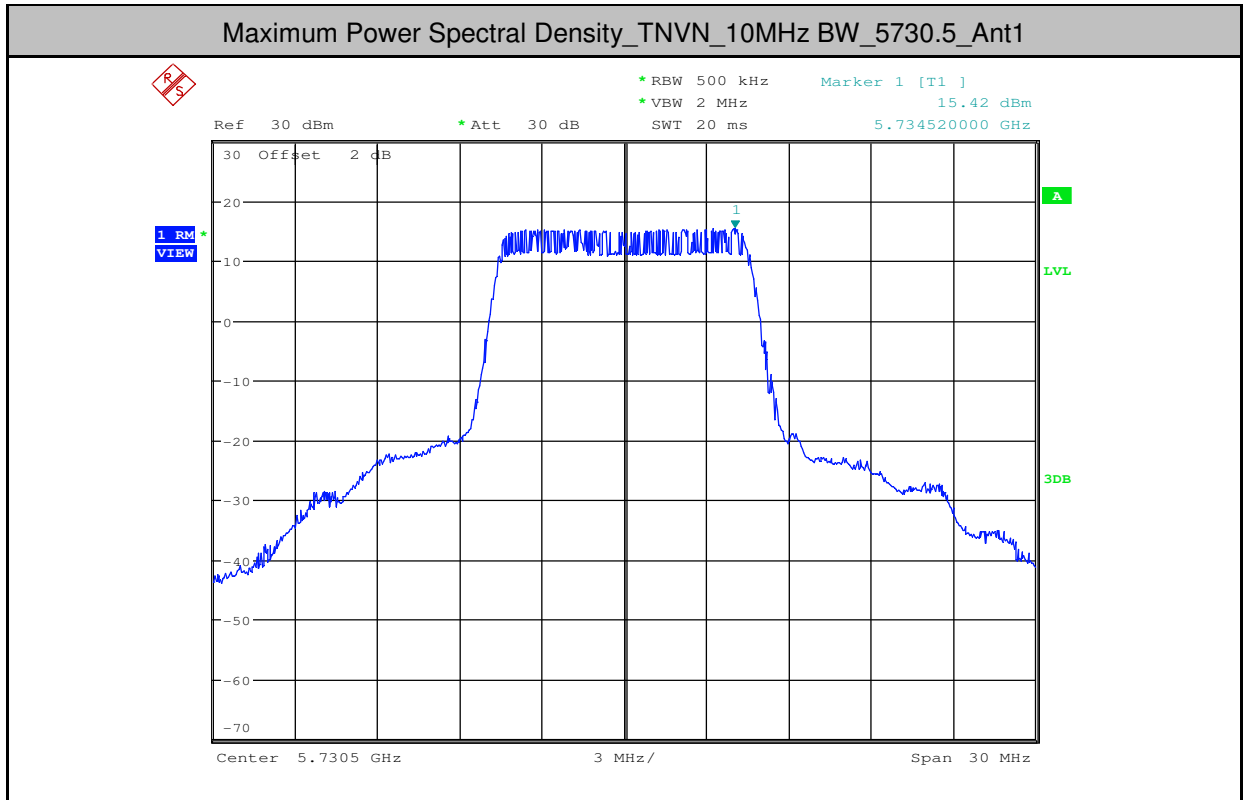
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4. Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor[dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
10MHz BW	5730.5	Ant1	15.42	0	0	15.42	<17.00	PASS
10MHz BW	5730.5	Ant2	14.9	0	0	14.9	<17.00	PASS
10MHz BW	5787.5	Ant1	15.42	0	0	15.42	<17.00	PASS
10MHz BW	5787.5	Ant2	15.03	0	0	15.03	<17.00	PASS
10MHz BW	5844.5	Ant1	14.86	0	0	14.86	<17.00	PASS
10MHz BW	5844.5	Ant2	15.73	0	0	15.73	<17.00	PASS



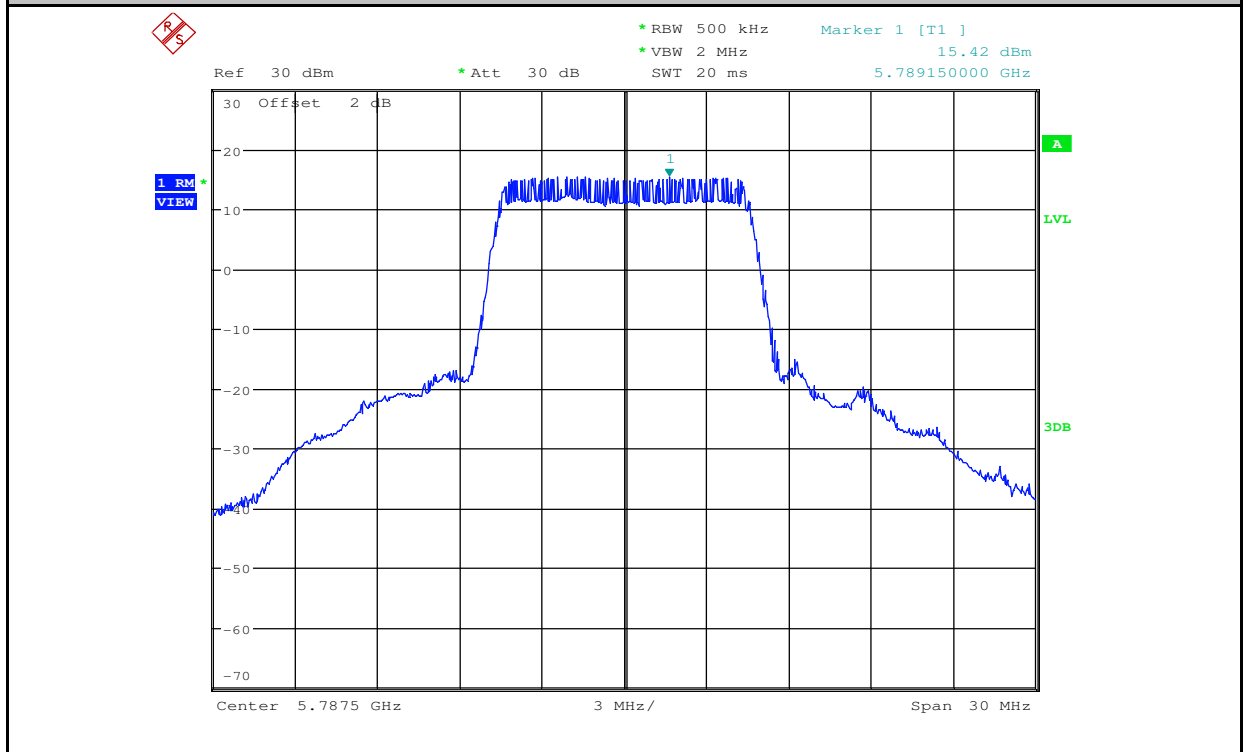
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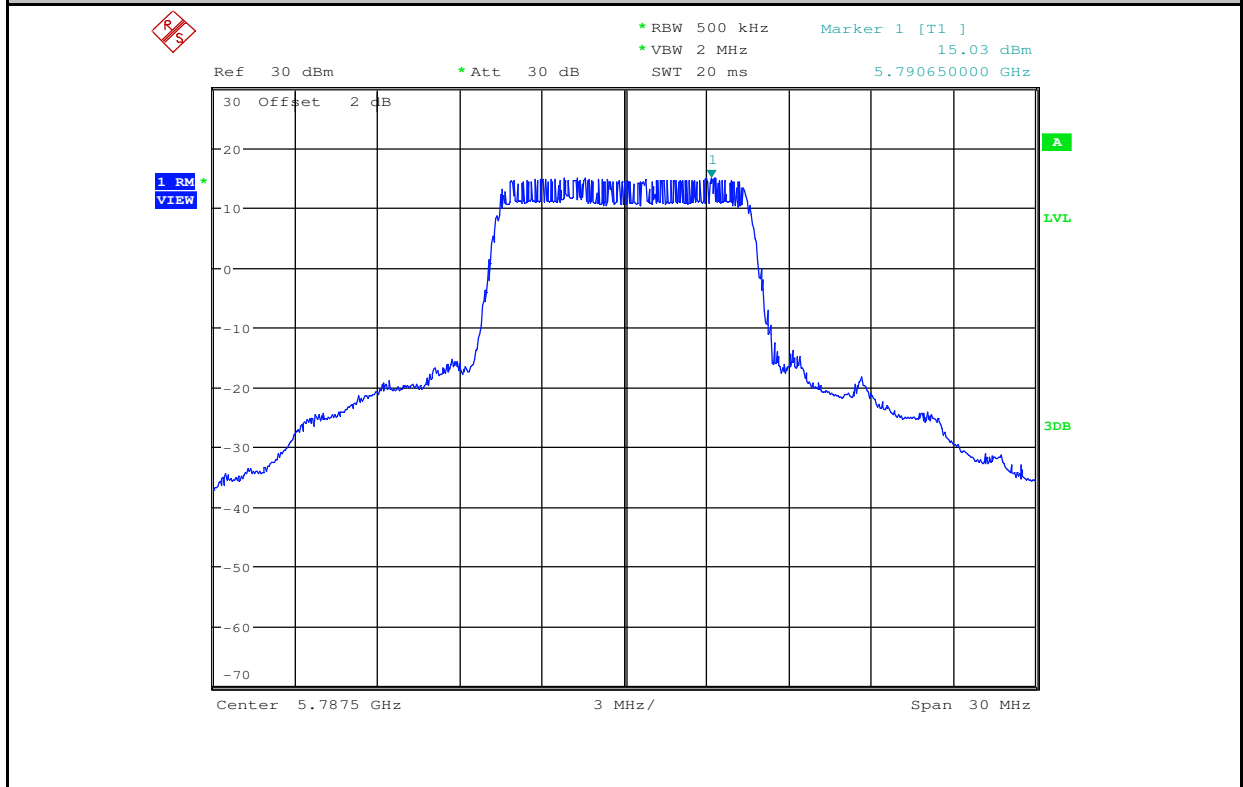
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Maximum Power Spectral Density_TNVN_10MHz BW_5787.5_Ant1

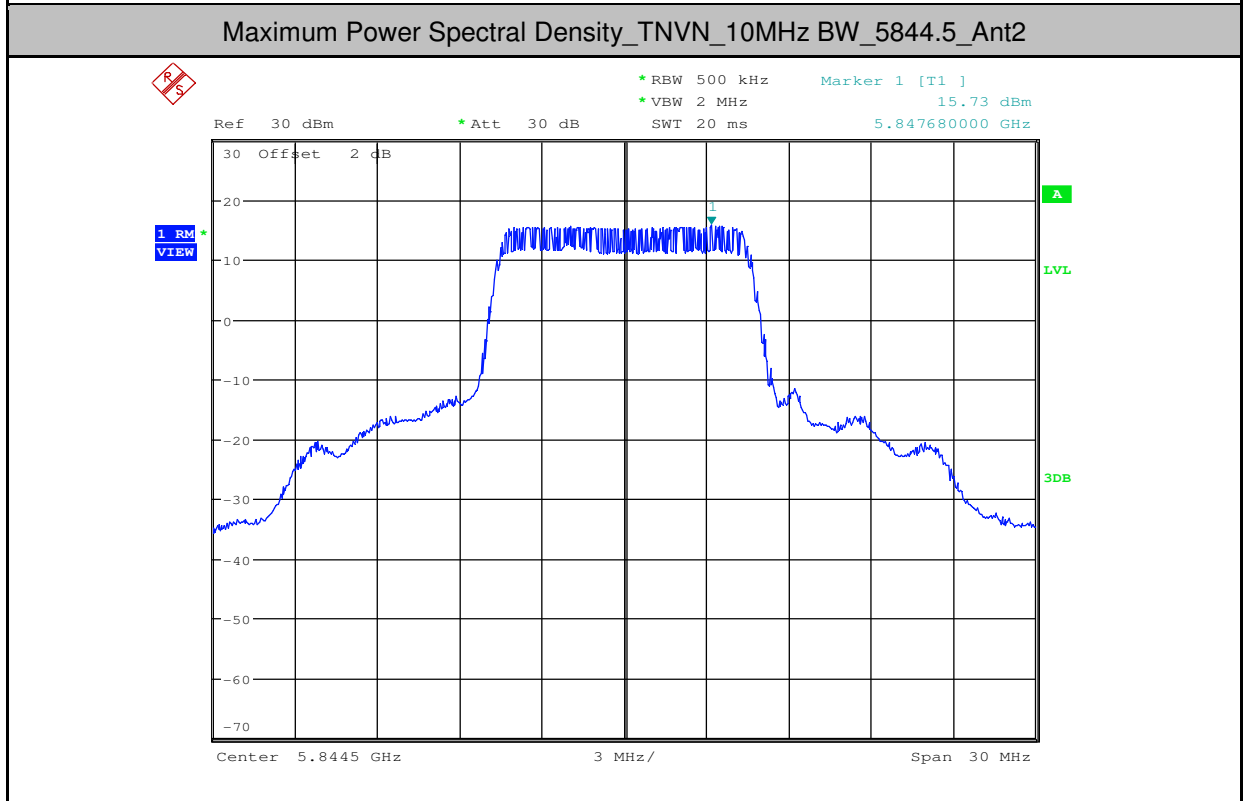
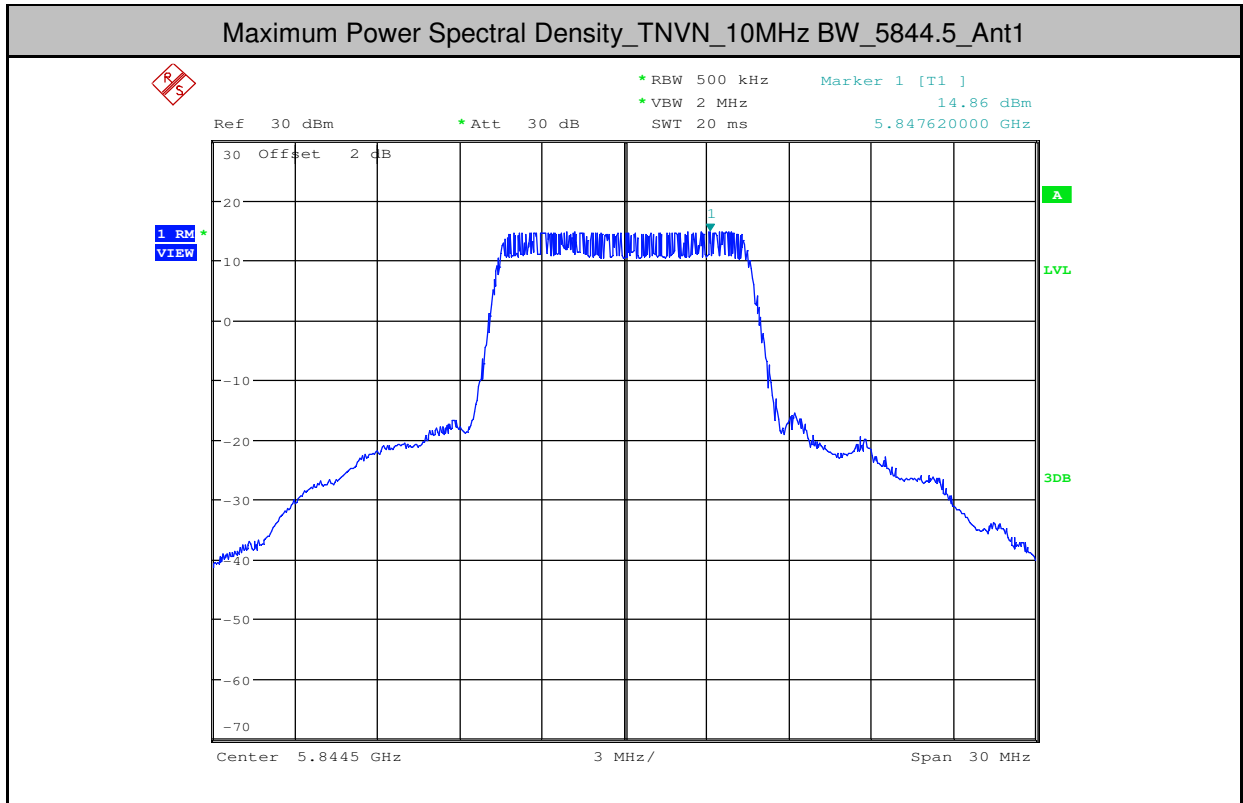


Maximum Power Spectral Density_TNVN_10MHz BW_5787.5_Ant2



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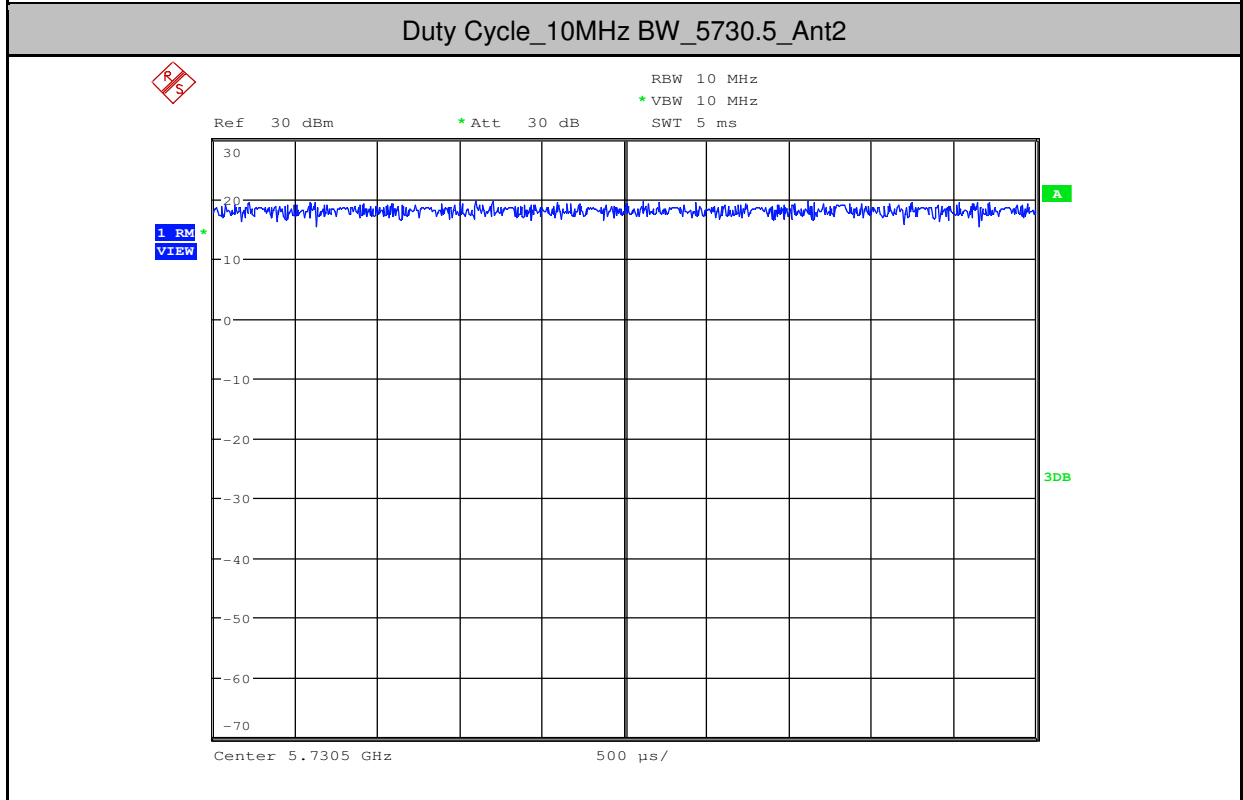
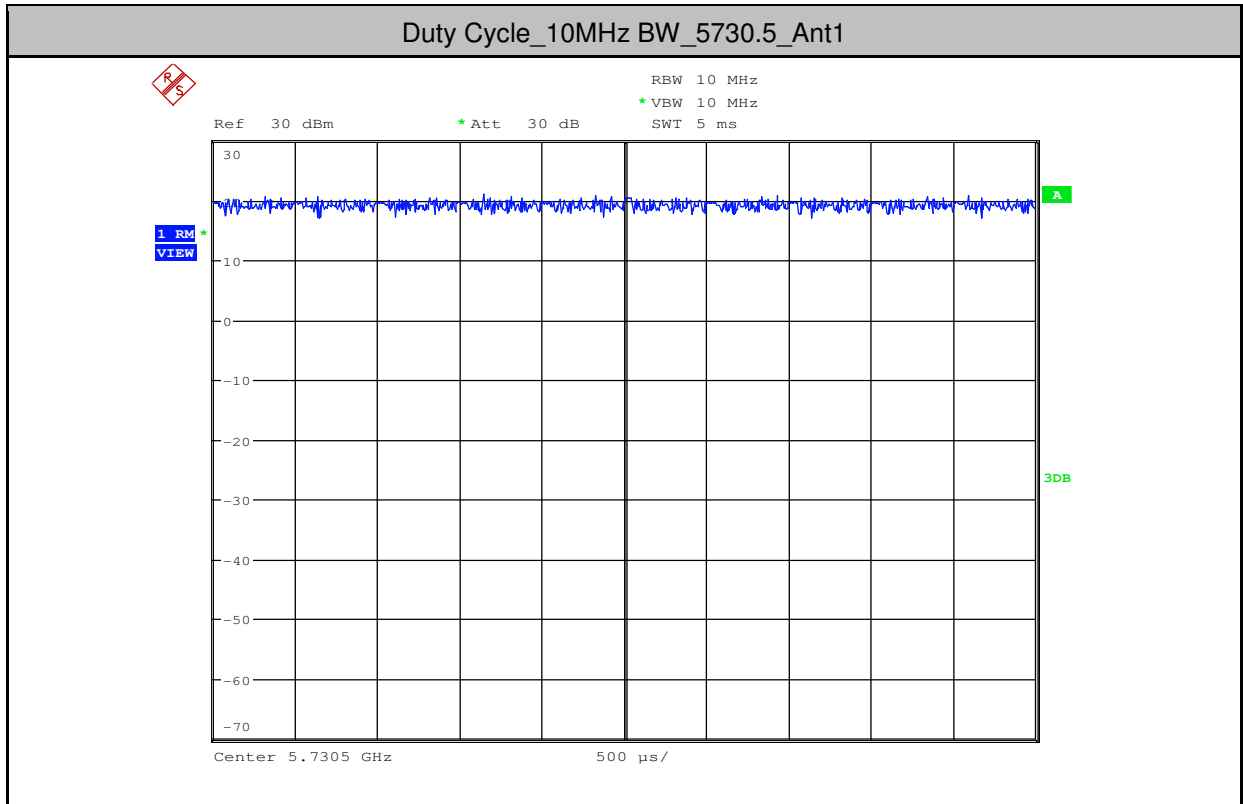
7. Duty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
10MHz BW	5730.5	Ant1	100	0
10MHz BW	5730.5	Ant2	100	0
10MHz BW	5787.5	Ant1	100	0
10MHz BW	5787.5	Ant2	100	0
10MHz BW	5844.5	Ant1	100	0
10MHz BW	5844.5	Ant2	100	0



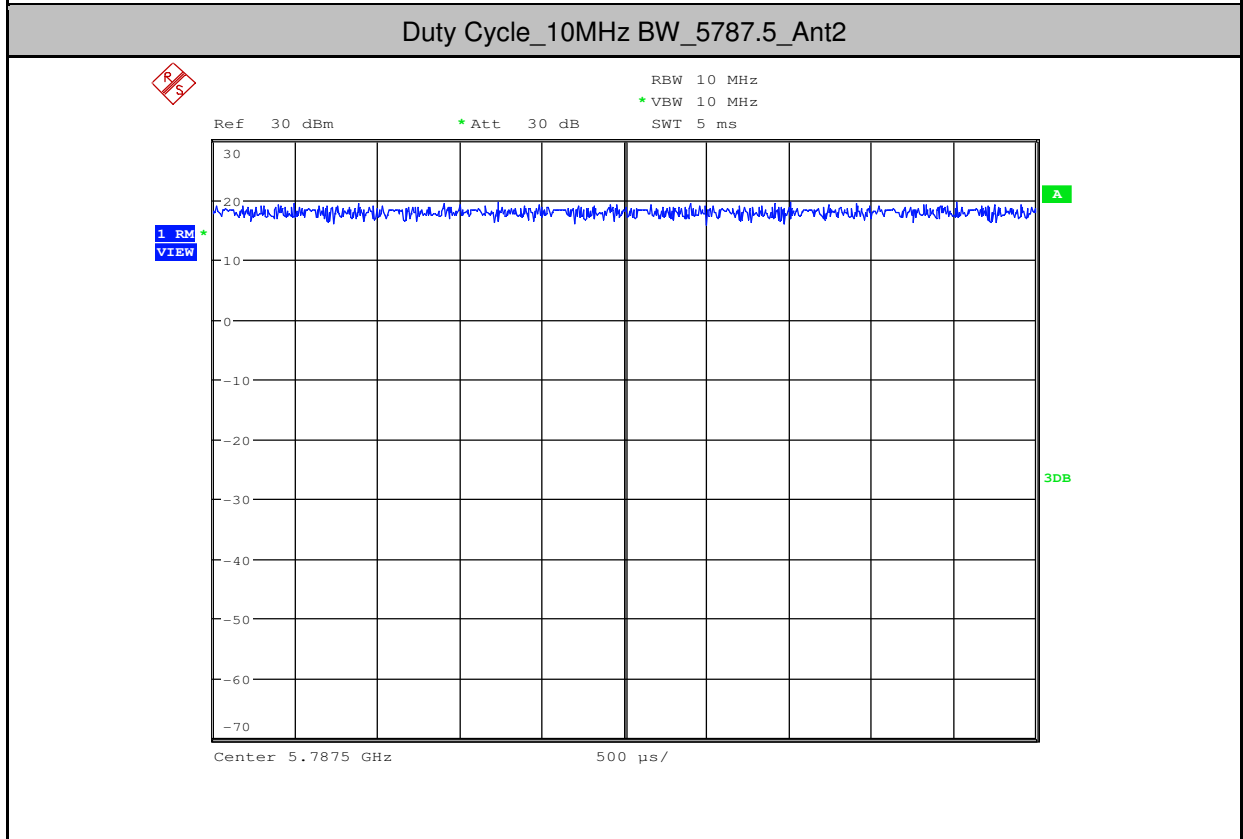
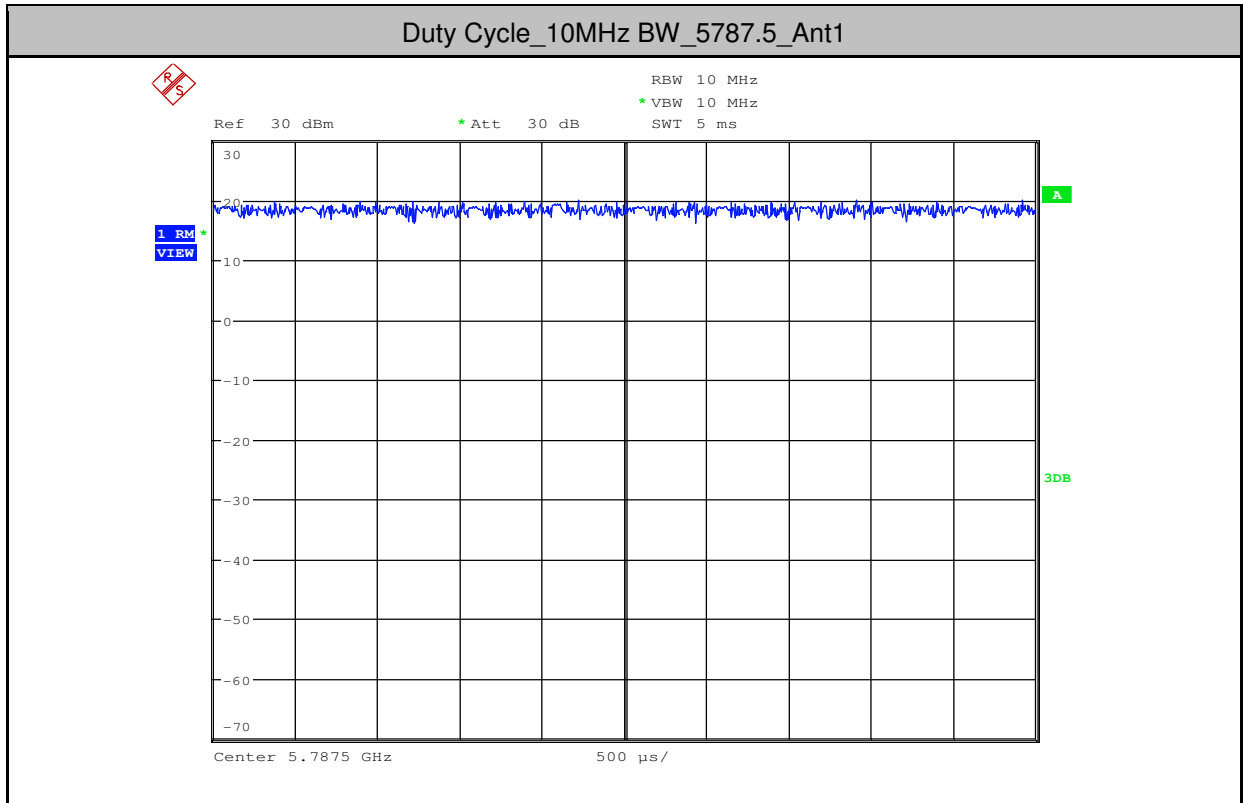
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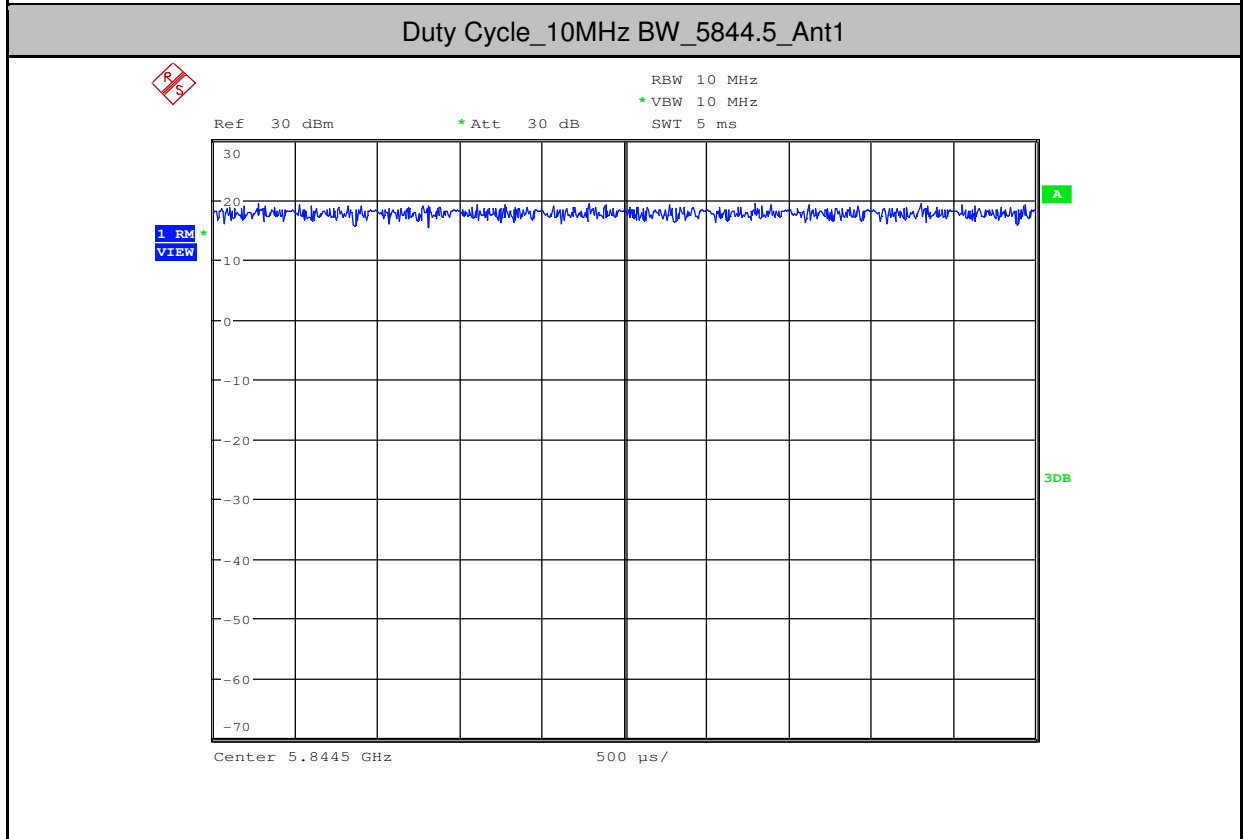
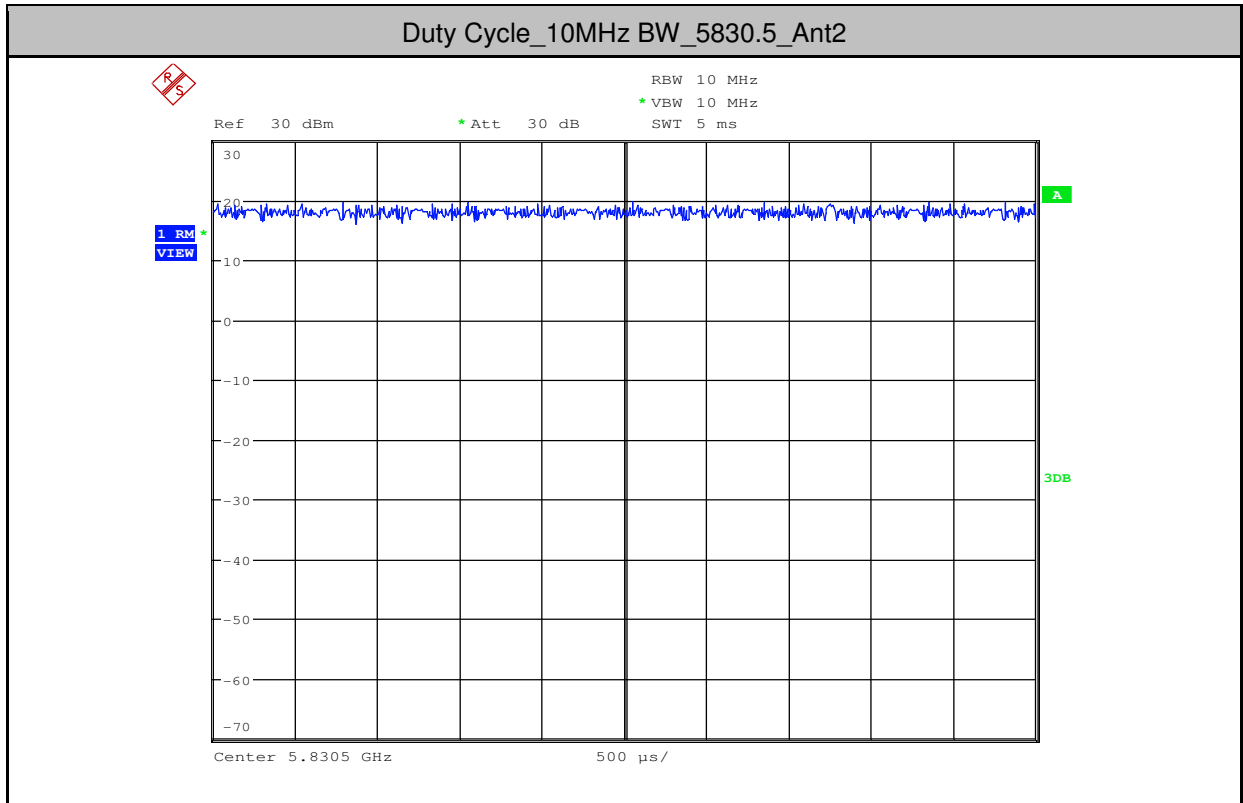
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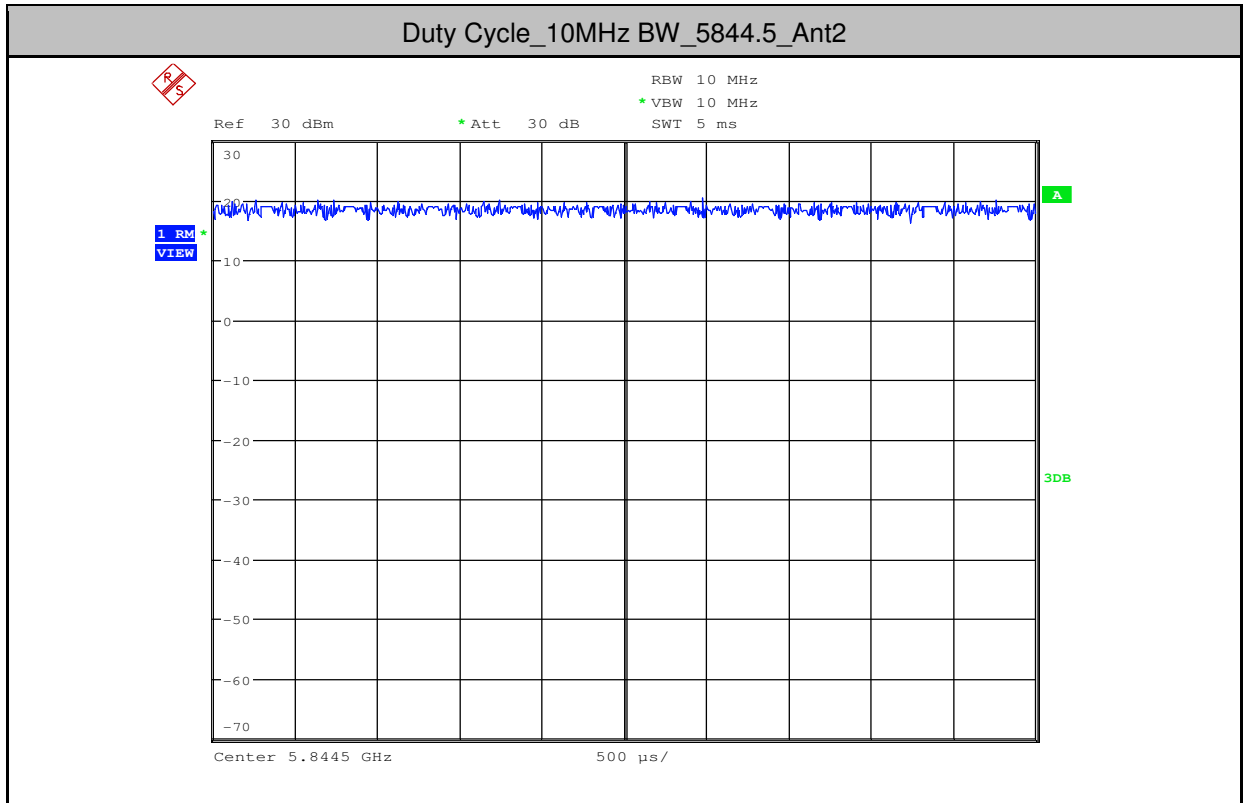
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