



TEST REPORT

Application No.: SZEM2011011220CR
Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18
Gaoxin South 4th Ave, Nanshan District, Shenzhen, Guangdong, 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 District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: DJI AIR 2S
Model No.: DA2SUE1
Trade mark: DJI
FCC ID: SS3-DA2SUE12011
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2020-11-06
Date of Test: 2020-11-10 to 2020-12-03
Date of Issue: 2020-12-08

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

Keny Xu

Keny Xu
EMC Laboratory Manager

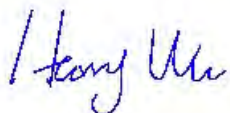
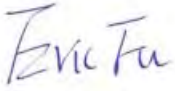


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-08		Original

Authorized for issue by:			
			
		Harry Wu/Project Engineer	
			
		Eric Fu/Reviewer	

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 C 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
Minimum 6 dB bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 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 C 15.407 (g)	Pass

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4 General Information

4.1 Details of E.U.T.

Power adapter:	Model: P2C38 Input: AC100-240V,50-60Hz,1.3A Output: DC13.2V,2.82A(Main),DC5.0V,2.0A
Battery:	DC11.55V lithium-ion Polymer battery(3500mAh)
Operation Frequency:	1.4MHz BW:5728.5MHz-5846.5MHz; 1.4MHz BW CA:5730.12MHz-5848.12MHz; 3MHz BW:5730.5MHz-5844.5MHz; 3MHz BW CA:5733.2MHz-5847.2MHz; 10MHz BW:5730.5MHz-5844.5MHz; 20MHz BW:5735.5MHz-5839.5MHz; 40MHz BW:5745.5MHz-5829.5MHz
Moudulation Type:	OFDM
Number of Channels:	1.4MHz BW:60; 1.4MHz BW CA:60; 3MHz BW:39; 3MHz BW CA:39; 10MHz BW:115; 20MHz BW:105; 40MHz BW:85
Channel Spacing:	1.4MHz BW:2MHz; 1.4MHz BW CA:2MHz; 3MHz BW:3MHz; 3MHz BW CA:3MHz; 10MHz BW:1MHz; 20MHz BW:1MHz; 40MHz BW:1MHz
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna 1&2: 4.5dBi, Antenna 3&4: 2dBi
Antenna Combination:	Antenna 1+Antenna 2, Antenna 1+Antenna 4, Antenna 2+Antenna 3, Antenna 3+Antenna 4

4.2 Cable

Cable	Length	Shielding	Core
AC Cable	1meter	Unshielded	Non-Core
Typc C Cable	1meter	Unshielded	Non-Core

4.3 Details of Sample setting.

RF software:	DjiSdrConsole
Software Power setting:	Tx Power: Default (The peak output power refer to Appendix RSS-247)

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions	$\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz)
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.6 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.

4.7 Test Facility

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

- **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.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

Minimum 6 dB bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24



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Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24

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
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24



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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	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407 (3) requirement:

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antennas are Antenna 1&2: 4.5dBi, Antenna 3&4: 2dBi.

Antenna location: Refer to internal photo.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.1 Conclusion

standard Requirement:

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

EUT Details:

RF chip 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.



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7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

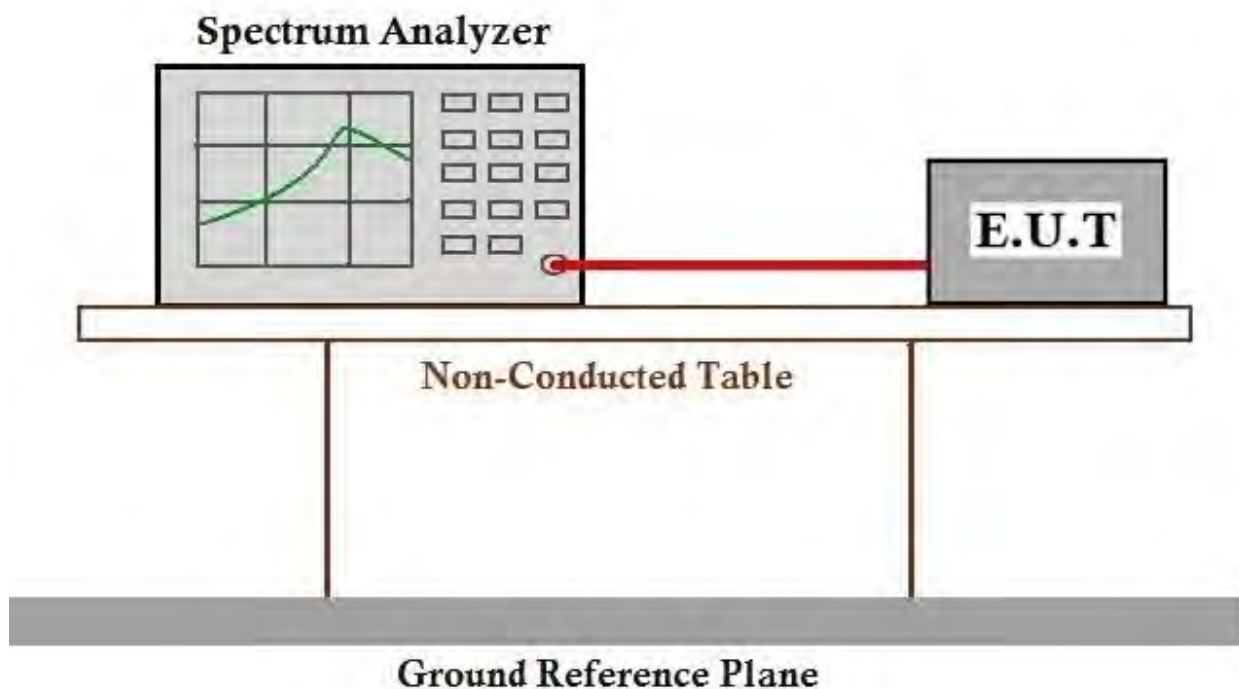
Operating Environment:

Temperature: 25.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.2 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

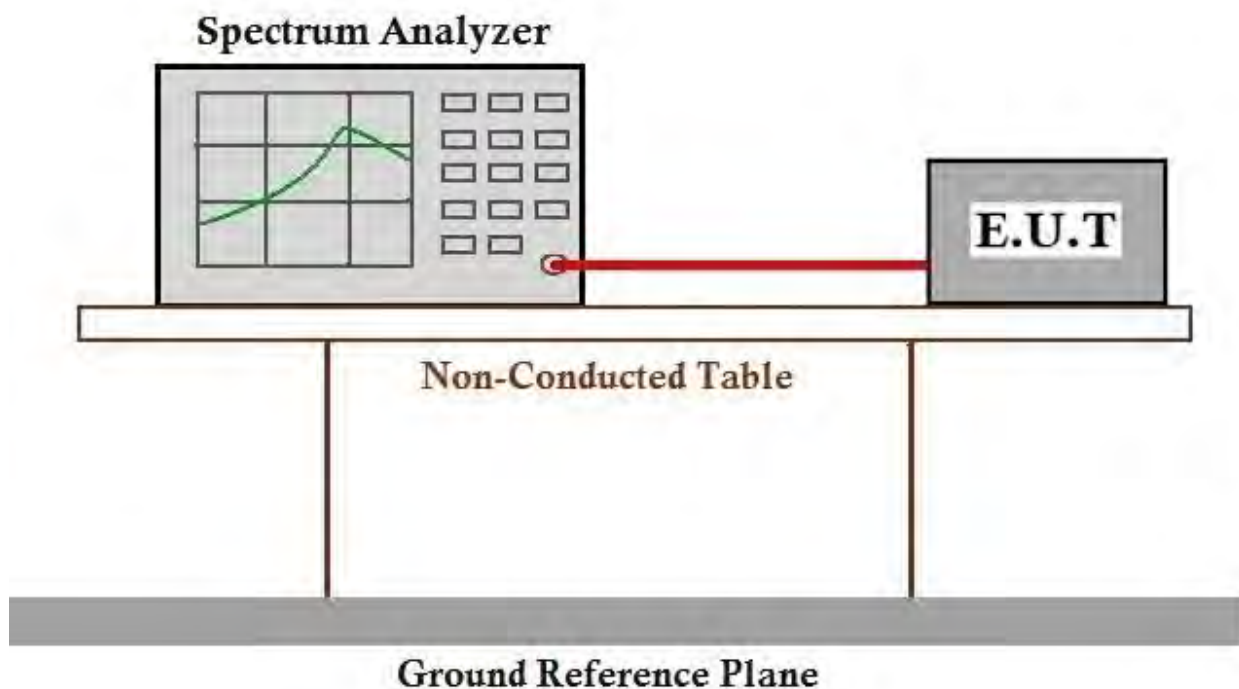
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.3 Minimum 6 dB bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.3.1 E.U.T. Operation

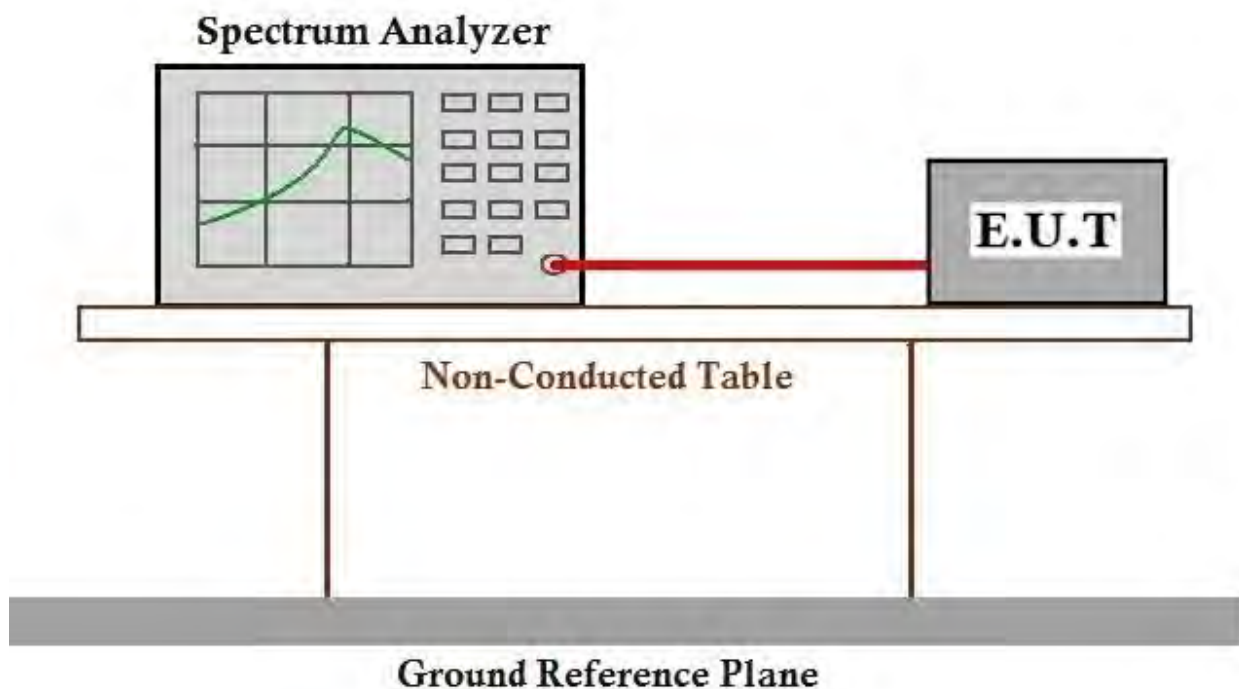
Operating Environment:

Temperature: 25.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.4 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II E

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

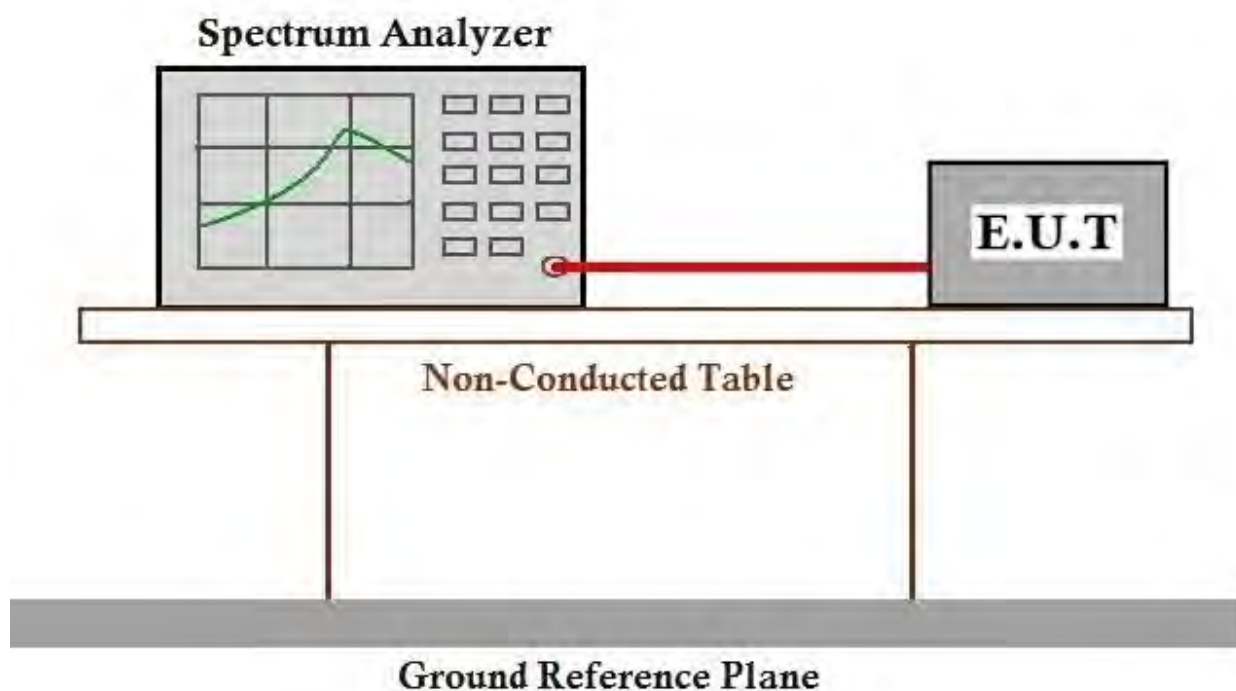
Humidity: 50.5 % RH

Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.5 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

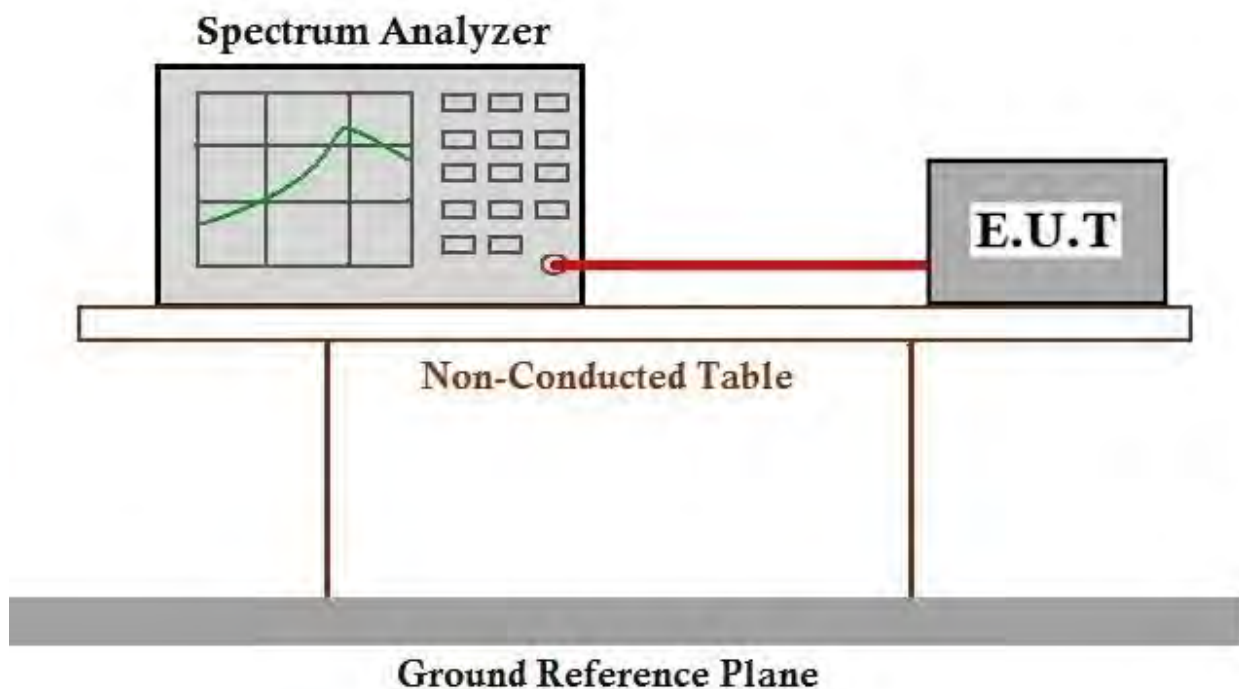
Humidity: 50.5 % RH

Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.6 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

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

*(1) 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.

(2) 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.

(3) 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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

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: 25.0 °C

Humidity: 51.3 % RH

Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode

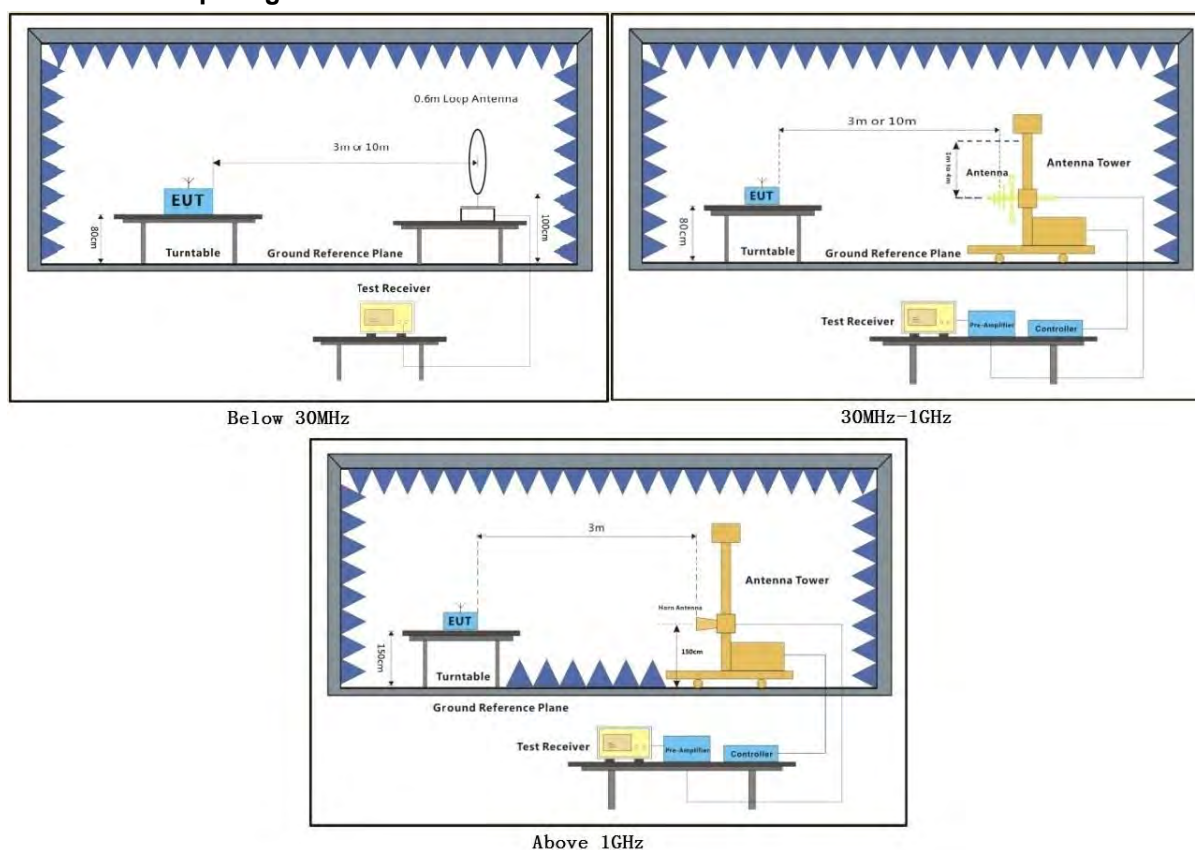


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		with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.6.3 Test Setup Diagram



7.6.4 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 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 802.11a. 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.



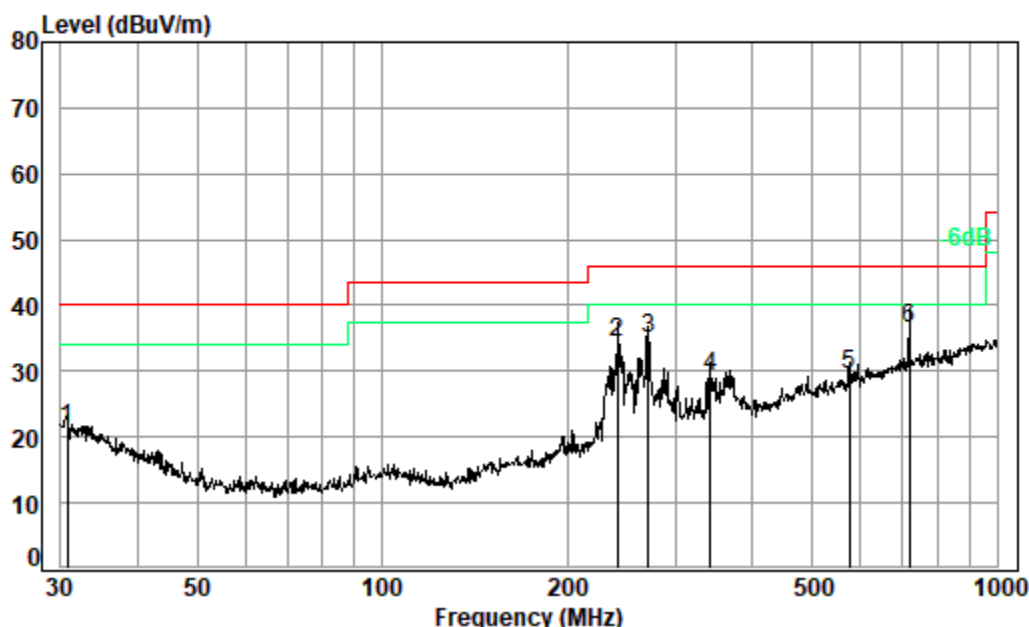
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Antenna 1,2,3,4,1+2,1+4,2+3 and 3+4 were tested. Only the worst case(Antenna 1+2) was recorded in the report.
Below 1GHz(Worst Case):

Test Mode: 08; Polarity: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 11220CR

Test Mode: 08

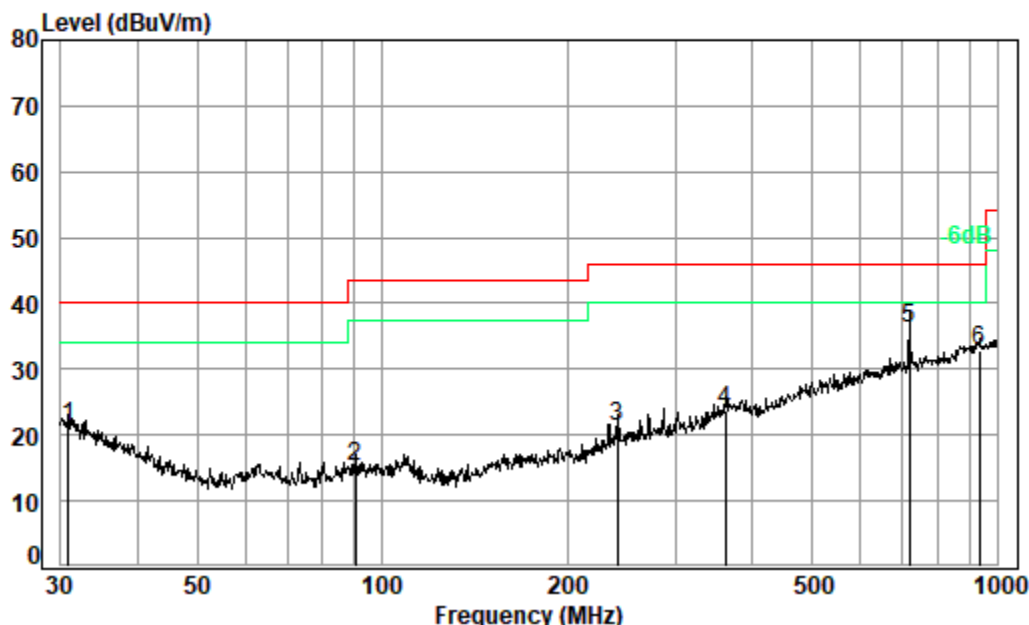
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.75	0.61	22.43	27.73	25.98	21.29	40.00	-18.71	QP
2	241.68	1.57	17.87	27.02	41.87	34.29	46.00	-11.71	QP
3	271.32	1.80	18.57	26.94	41.41	34.84	46.00	-11.16	QP
4	341.98	2.14	20.52	27.11	33.65	29.20	46.00	-16.80	QP
5	574.63	2.65	25.05	28.05	29.81	29.46	46.00	-16.54	QP
6 pp	719.20	2.98	27.48	27.88	33.92	36.50	46.00	-9.50	QP



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Test Mode: 08; Polarity: Vertical;



Condition: 3m VERTICAL

Job No. : 11220CR

Test Mode: 08

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.85	0.61	22.35	27.73	25.92	21.15	40.00	-18.85	QP
2	90.54	1.29	13.21	27.62	28.18	15.06	43.50	-28.44	QP
3	241.68	1.57	17.87	27.02	28.73	21.15	46.00	-24.85	QP
4	361.71	2.20	21.79	27.21	27.03	23.81	46.00	-22.19	QP
5 pp	719.20	2.98	27.48	27.88	33.51	36.09	46.00	-9.91	QP
6	935.55	3.54	29.20	26.98	26.98	32.74	46.00	-13.26	QP



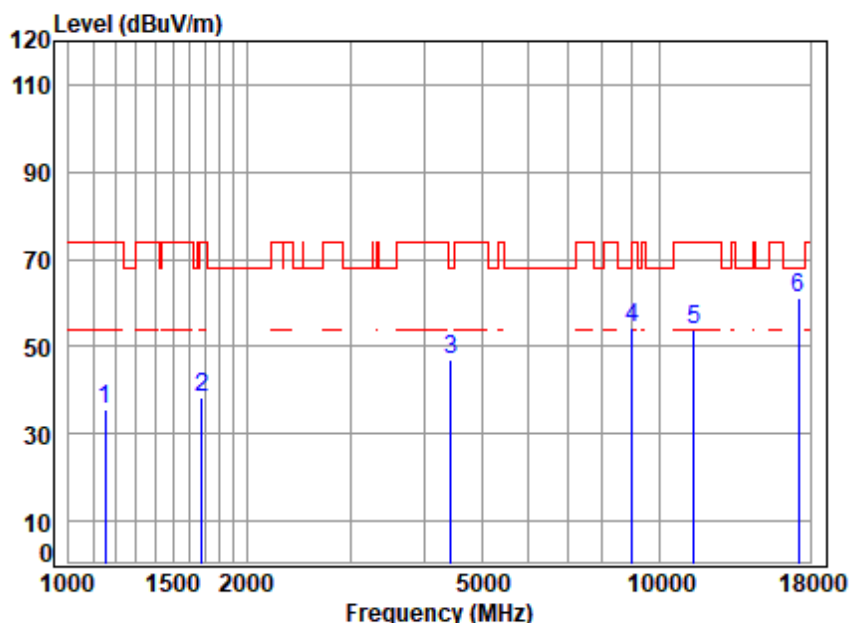
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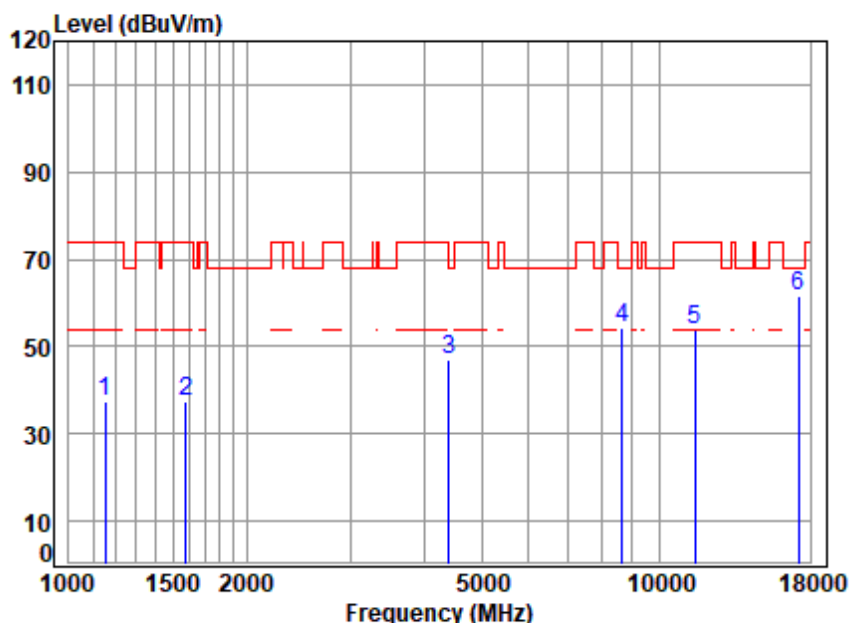
Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5728.5 TX SE
Note : 1.4M

		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	1152.148	2.67	24.37	39.72	48.12	35.44	74.00	-38.56	peak
2	1677.621	3.41	26.58	40.05	48.55	38.49	74.00	-35.51	peak
3	4430.628	6.70	33.48	41.81	48.49	46.86	68.20	-21.34	peak
4	8995.123	10.30	37.20	38.86	45.64	54.28	68.20	-13.92	peak
5	11457.000	11.57	37.89	37.85	42.36	53.97	74.00	-20.03	peak
6	17185.500	14.11	42.71	40.30	44.76	61.28	68.20	-6.92	peak

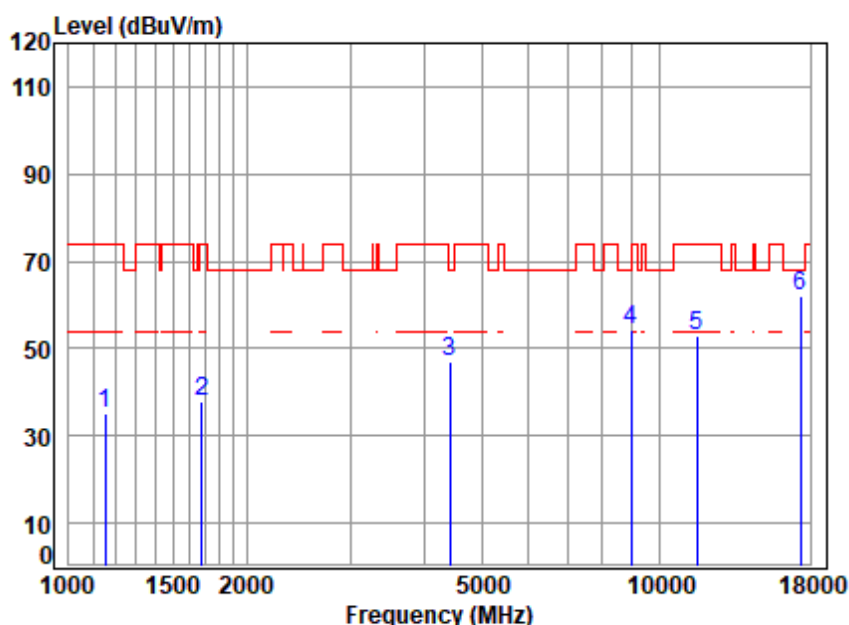
Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5728.5 TX SE
Note : 1.4M

		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	1152.148	2.67	24.37	39.72	49.88	37.20	74.00	-36.80	peak
2	1578.822	3.33	26.16	40.00	47.89	37.38	74.00	-36.62	peak
3	4405.090	6.67	33.44	41.79	48.64	46.96	68.20	-21.24	peak
4	8638.399	10.16	37.06	39.53	46.71	54.40	68.20	-13.80	peak
5	11490.000	11.62	37.90	37.86	42.09	53.75	74.00	-20.25	peak
6	17235.000	14.09	42.74	40.28	44.83	61.38	68.20	-6.82	peak

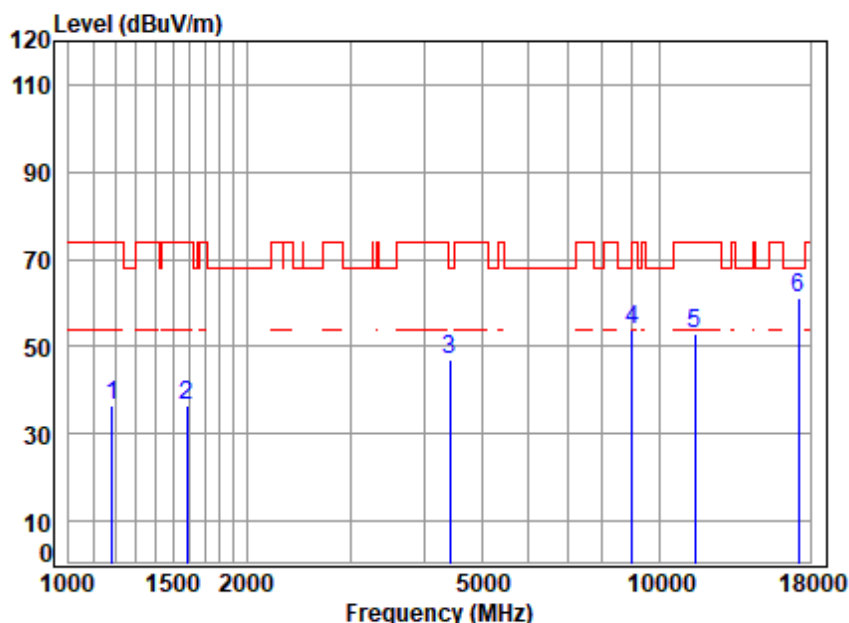
Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 1.4M

		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	1152.148	2.67	24.37	39.72	48.00	35.32	74.00	-38.68	peak
2	1677.621	3.41	26.58	40.05	47.71	37.65	74.00	-36.35	peak
3	4417.841	6.68	33.46	41.80	48.48	46.82	68.20	-21.38	peak
4	8943.274	10.28	37.18	38.95	45.80	54.31	68.20	-13.89	peak
5	11575.000	11.72	37.87	37.90	41.35	53.04	74.00	-20.96	peak
6	17362.500	14.05	42.82	40.25	45.55	62.17	68.20	-6.03	peak

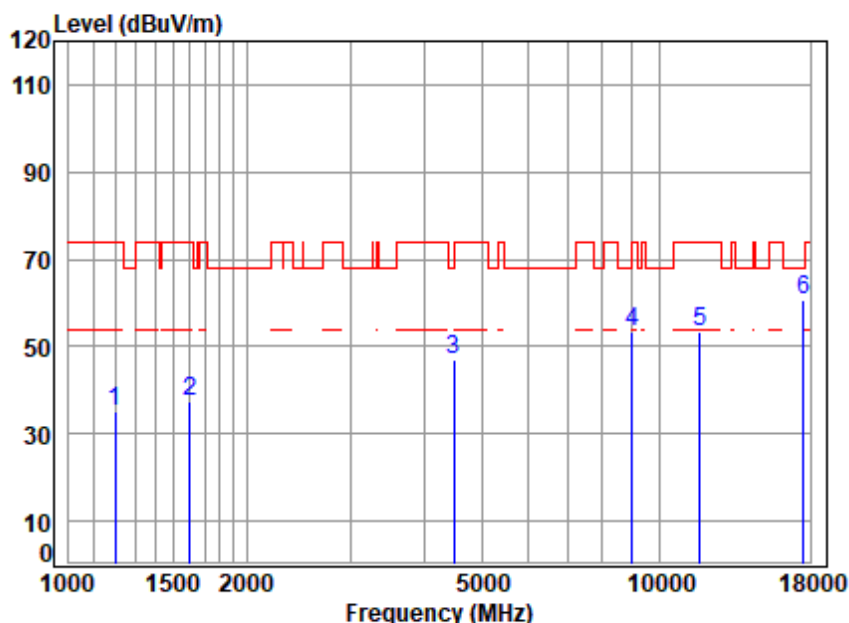
Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 1.4M

		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	1182.513	2.73	24.51	39.75	49.04	36.53	74.00	-37.47	peak
2	1583.392	3.33	26.18	40.00	47.05	36.56	74.00	-37.44	peak
3	4417.841	6.68	33.46	41.80	48.44	46.78	68.20	-21.42	peak
4	8995.123	10.30	37.20	38.86	45.09	53.73	68.20	-14.47	peak
5	11490.000	11.62	37.90	37.86	41.49	53.15	74.00	-20.85	peak
6	17235.000	14.09	42.74	40.28	44.61	61.16	68.20	-7.04	peak

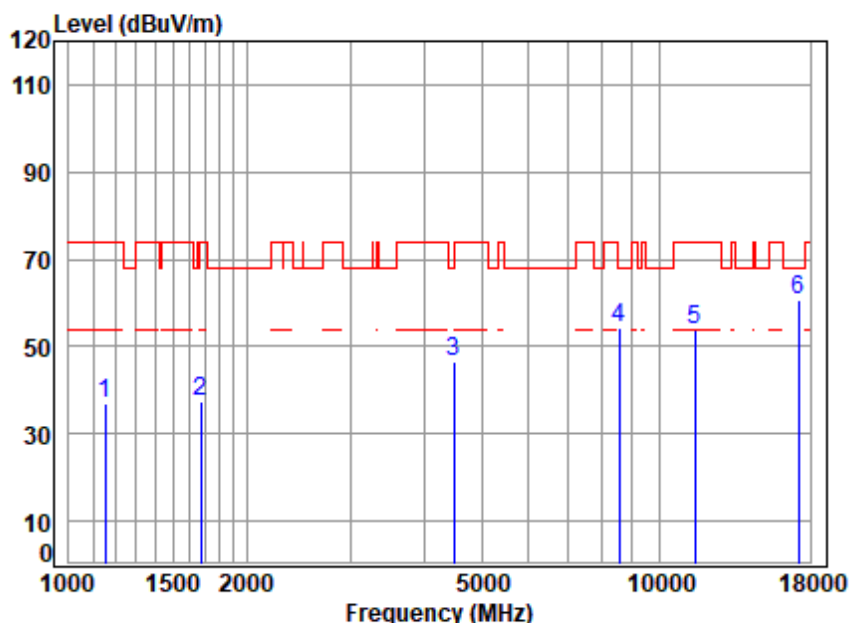
Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5846.5 TX SE
Note : 1.4M

		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	1199.726	2.76	24.59	39.76	47.48	35.07	74.00	-38.93	peak
2	1606.441	3.35	26.28	40.01	47.88	37.50	74.00	-36.50	peak
3	4482.150	6.74	33.57	41.86	48.54	46.99	68.20	-21.21	peak
4	8995.123	10.30	37.20	38.86	44.77	53.41	68.20	-14.79	peak
5	11693.000	11.87	37.82	37.96	41.48	53.21	74.00	-20.79	peak
6	17539.500	14.07	42.95	40.21	44.10	60.91	68.20	-7.29	peak

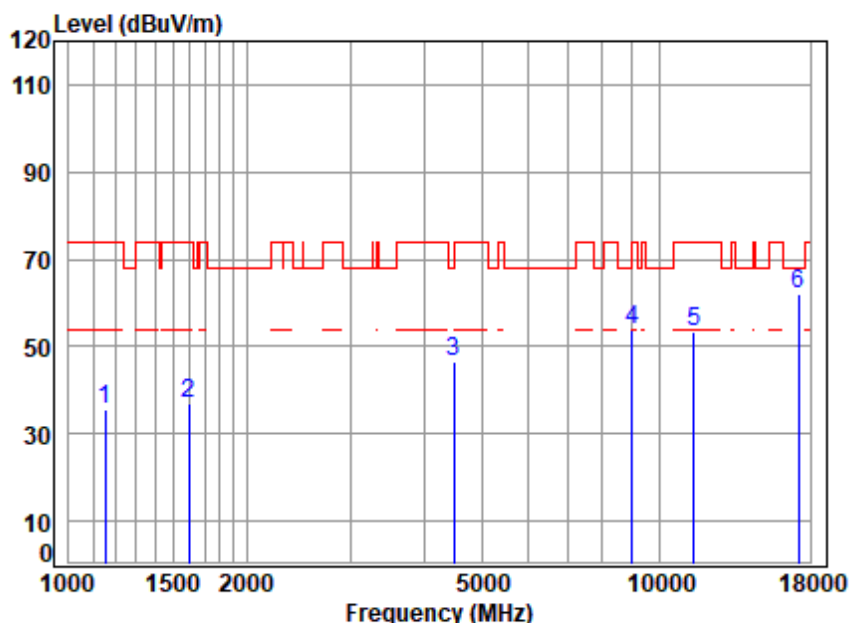
Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5846.5 TX SE
Note : 1.4M

		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	1152.148	2.67	24.37	39.72	49.49	36.81	74.00	-37.19	peak
2	1672.779	3.41	26.56	40.05	47.50	37.42	74.00	-36.58	peak
3	4495.125	6.76	33.59	41.87	47.98	46.46	68.20	-21.74	peak
4	8539.102	10.12	37.02	39.72	46.97	54.39	68.20	-13.81	peak
5	11490.000	11.62	37.90	37.86	41.96	53.62	74.00	-20.38	peak
6	17235.000	14.09	42.74	40.28	44.31	60.86	68.20	-7.34	peak

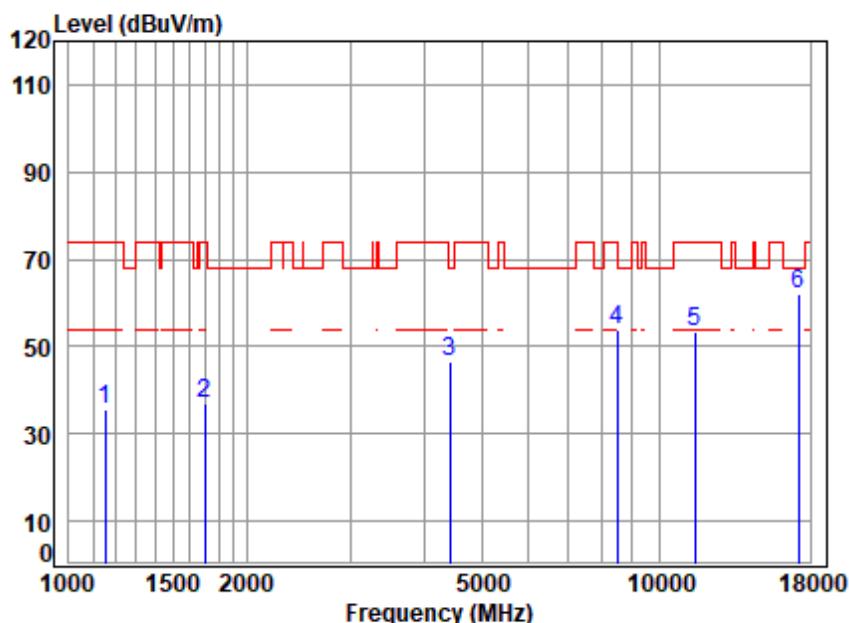
Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.12 TX SE
Note : 1.4M CA

		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	1152.148	2.67	24.37	39.72	48.08	35.40	74.00	-38.60	peak
2	1597.181	3.35	26.24	40.01	47.41	36.99	74.00	-37.01	peak
3	4482.150	6.74	33.57	41.86	48.06	46.51	68.20	-21.69	peak
4	8995.123	10.30	37.20	38.86	45.20	53.84	68.20	-14.36	peak
5	11461.000	11.58	37.89	37.85	41.95	53.57	74.00	-20.43	peak
6	17191.500	14.11	42.72	40.30	45.64	62.17	68.20	-6.03	peak

Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.12 TX SE
Note : 1.4M CA

		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	1152.148	2.67	24.37	39.72	48.43	35.75	74.00	-38.25	peak
2	1702.042	3.43	26.68	40.06	47.00	37.05	74.00	-36.95	peak
3	4417.841	6.68	33.46	41.80	48.12	46.46	68.20	-21.74	peak
4	8489.882	10.09	36.99	39.81	46.65	53.92	74.00	-20.08	peak
5	11490.000	11.62	37.90	37.86	41.78	53.44	74.00	-20.56	peak
6	17235.000	14.09	42.74	40.28	45.35	61.90	68.20	-6.30	peak



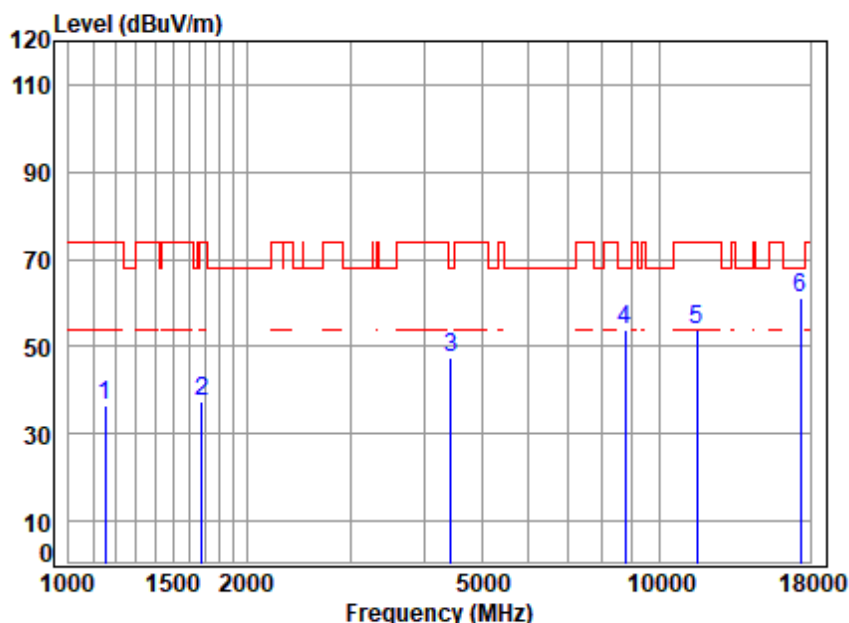
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Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5786.12 TX SE
Note : 1.4M CA

		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	1152.148	2.67	24.37	39.72	48.96	36.28	74.00	-37.72	peak
2	1677.621	3.41	26.58	40.05	47.53	37.47	74.00	-36.53	peak
3	4443.453	6.71	33.50	41.82	49.07	47.46	68.20	-20.74	peak
4	8764.146	10.21	37.11	39.29	45.69	53.72	68.20	-14.48	peak
5	11575.000	11.72	37.87	37.90	42.17	53.86	74.00	-20.14	peak
6	17362.500	14.05	42.82	40.25	44.58	61.20	68.20	-7.00	peak



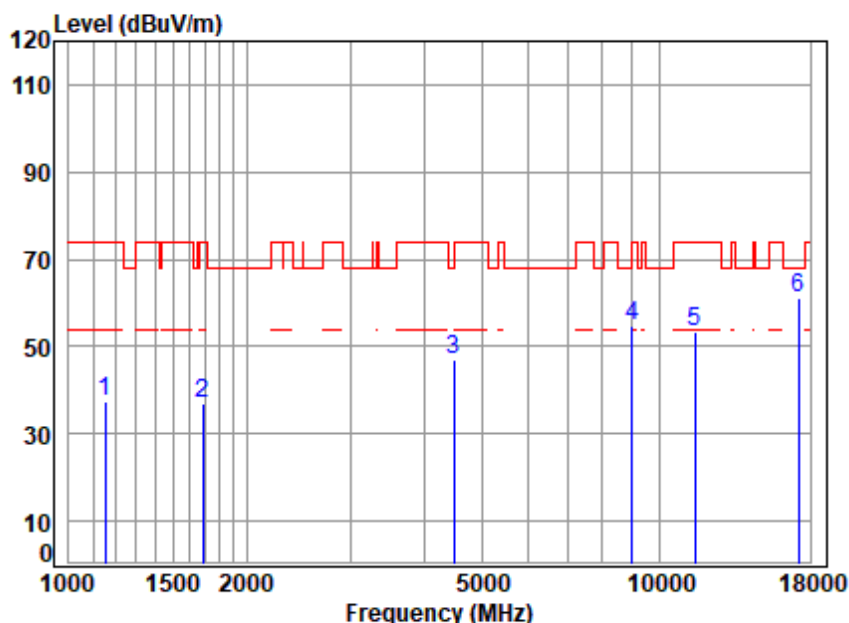
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Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5786.12 TX SE
Note : 1.4M CA

		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	1152.148	2.67	24.37	39.72	50.27	37.59	74.00	-36.41	peak
2	1687.347	3.42	26.62	40.05	47.06	37.05	74.00	-36.95	peak
3	4495.125	6.76	33.59	41.87	48.46	46.94	68.20	-21.26	peak
4	8995.123	10.30	37.20	38.86	46.08	54.72	68.20	-13.48	peak
5	11490.000	11.62	37.90	37.86	41.70	53.36	74.00	-20.64	peak
6	17235.000	14.09	42.74	40.28	44.78	61.33	68.20	-6.87	peak



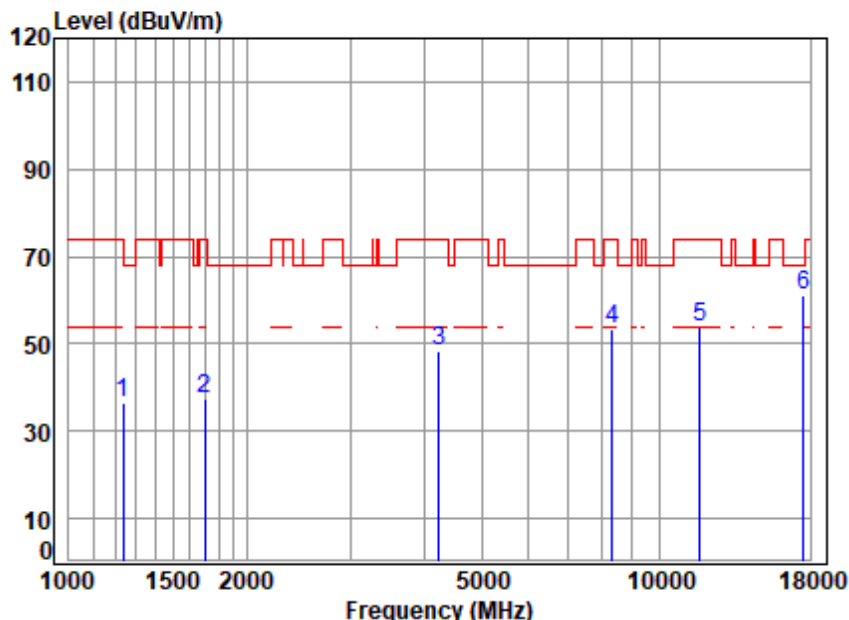
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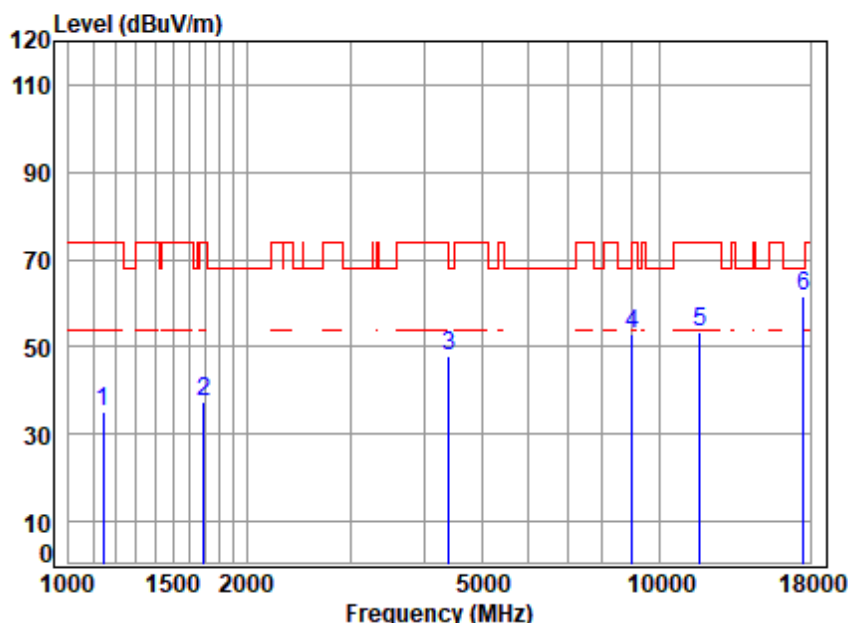
Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5848.12 TX SE
Note : 1.4M CA

		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	1234.909	2.83	24.74	39.78	48.61	36.40	74.00	-37.60	peak
2	1697.129	3.43	26.66	40.06	47.40	37.43	74.00	-36.57	peak
3	4230.396	6.51	33.13	41.63	50.49	48.50	74.00	-25.50	peak
4	8319.836	9.86	36.89	40.15	47.00	53.60	74.00	-20.40	peak
5	11696.240	11.87	37.82	37.96	42.23	53.96	74.00	-20.04	peak
6	17544.360	14.08	42.95	40.21	44.50	61.32	68.20	-6.88	peak

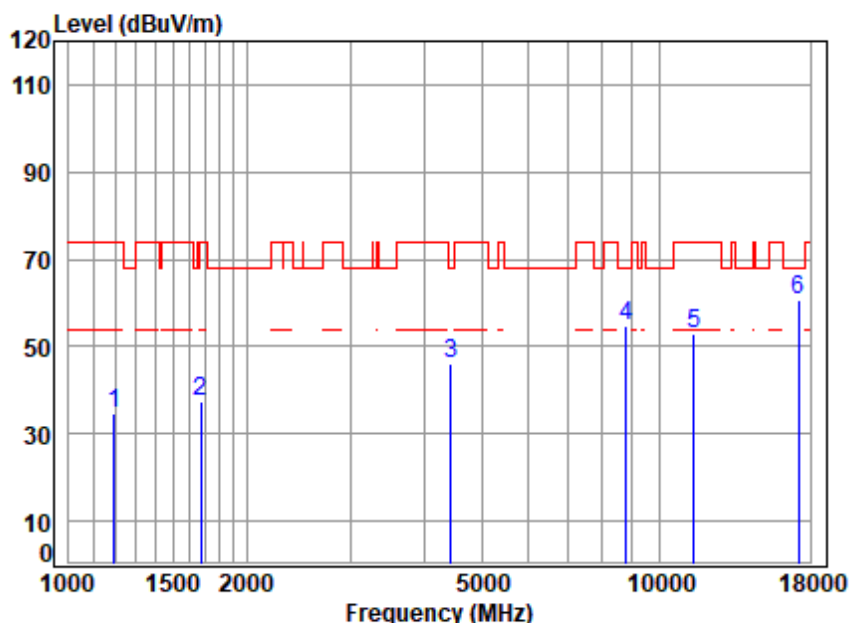
Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5848.12 TX SE
Note : 1.4M CA

		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	1142.201	2.66	24.32	39.72	47.84	35.10	74.00	-38.90	peak
2	1692.231	3.42	26.64	40.06	47.48	37.48	74.00	-36.52	peak
3	4405.090	6.67	33.44	41.79	49.81	48.13	68.20	-20.07	peak
4	8995.123	10.30	37.20	38.86	44.36	53.00	68.20	-15.20	peak
5	11696.240	11.87	37.82	37.96	41.83	53.56	74.00	-20.44	peak
6	17544.360	14.08	42.95	40.21	44.68	61.50	68.20	-6.70	peak

Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.5 TX SE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	2.75	24.56	39.75	47.03	34.59	74.00	-39.41	peak
2	1672.779	3.41	26.56	40.05	47.41	37.33	74.00	-36.67	peak
3	4430.628	6.70	33.48	41.81	47.79	46.16	68.20	-22.04	peak
4	8789.516	10.22	37.12	39.24	46.78	54.88	68.20	-13.32	peak
5	11461.000	11.58	37.89	37.85	41.46	53.08	74.00	-20.92	peak
6	17191.500	14.11	42.72	40.30	44.06	60.59	68.20	-7.61	peak



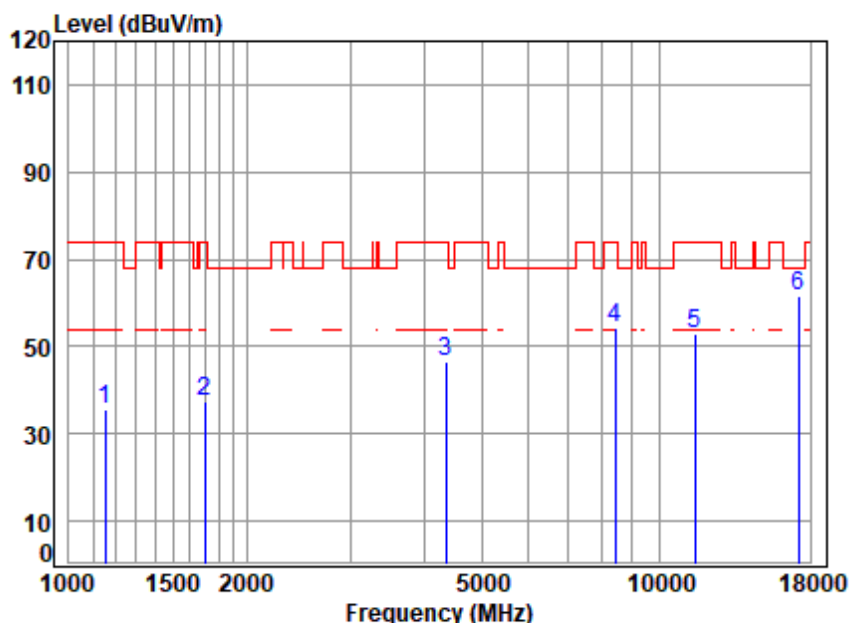
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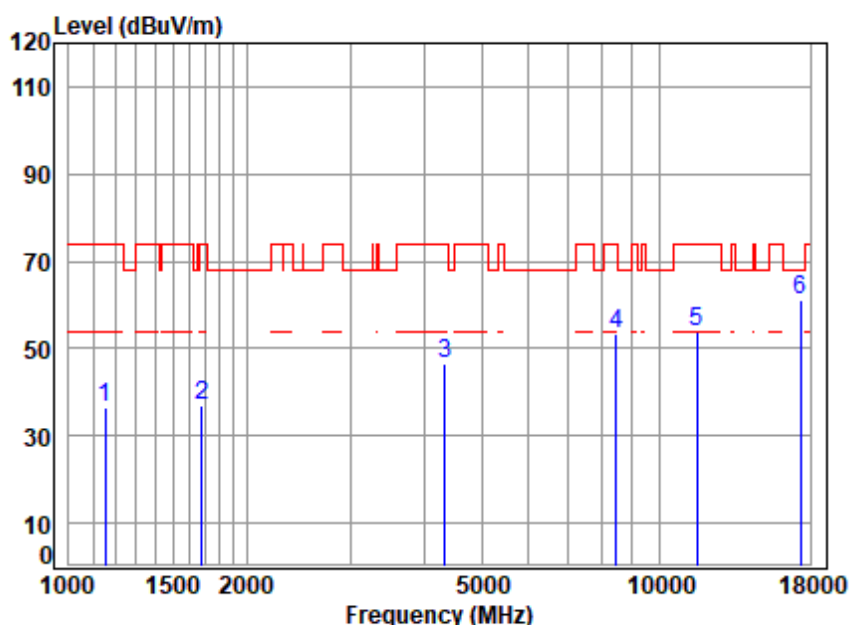
Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.5 TX SE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	48.39	35.71	74.00	-38.29	peak
2	1702.042	3.43	26.68	40.06	47.15	37.20	74.00	-36.80	peak
3	4354.454	6.63	33.35	41.74	48.23	46.47	74.00	-27.53	peak
4	8416.584	9.99	36.95	39.96	47.21	54.19	74.00	-19.81	peak
5	11490.000	11.62	37.90	37.86	41.44	53.10	74.00	-20.90	peak
6	17235.000	14.09	42.74	40.28	45.10	61.65	68.20	-6.55	peak

Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5784.5 TX SE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	49.28	36.60	74.00	-37.40	peak
2	1677.621	3.41	26.58	40.05	47.02	36.96	74.00	-37.04	peak
3	4341.886	6.61	33.33	41.73	48.41	46.62	74.00	-27.38	peak
4	8465.379	10.05	36.98	39.86	46.34	53.51	74.00	-20.49	peak
5	11575.000	11.72	37.87	37.90	41.97	53.66	74.00	-20.34	peak
6	17362.500	14.05	42.82	40.25	44.54	61.16	68.20	-7.04	peak



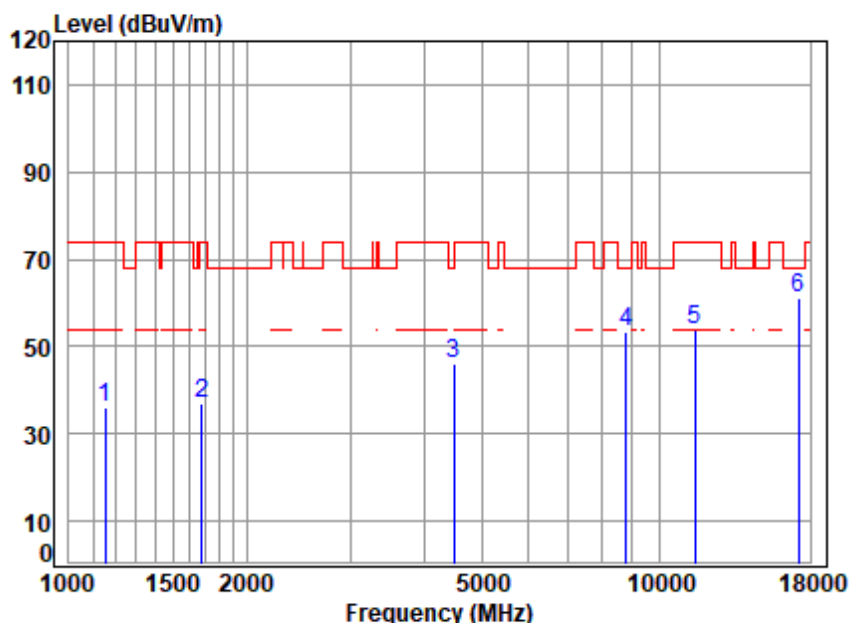
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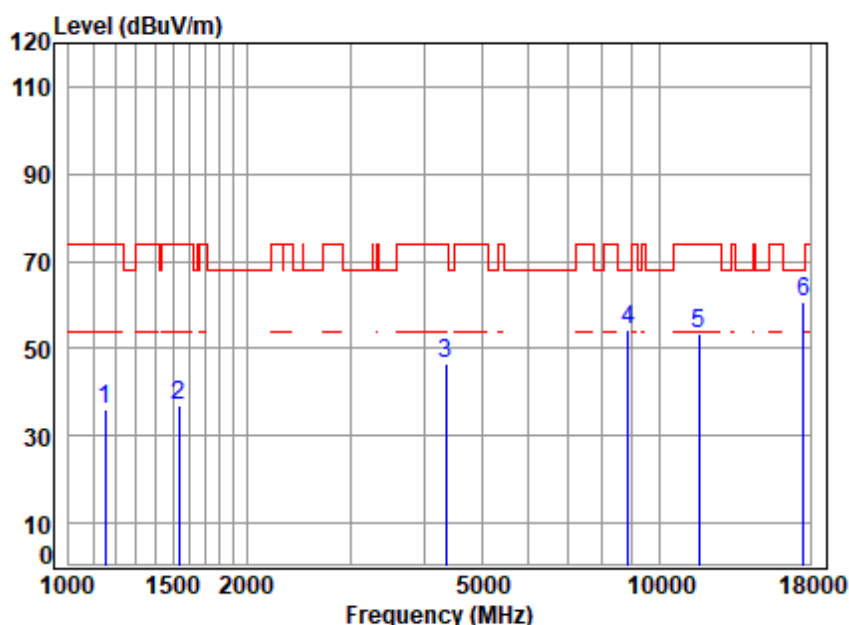
Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5784.5 TX SE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	48.70	36.02	74.00	-37.98	peak
2	1677.621	3.41	26.58	40.05	46.85	36.79	74.00	-37.21	peak
3	4482.150	6.74	33.57	41.86	47.78	46.23	68.20	-21.97	peak
4	8789.516	10.22	37.12	39.24	45.51	53.61	68.20	-14.59	peak
5	11490.000	11.62	37.90	37.86	42.06	53.72	74.00	-20.28	peak
6	17235.000	14.09	42.74	40.28	44.53	61.08	68.20	-7.12	peak

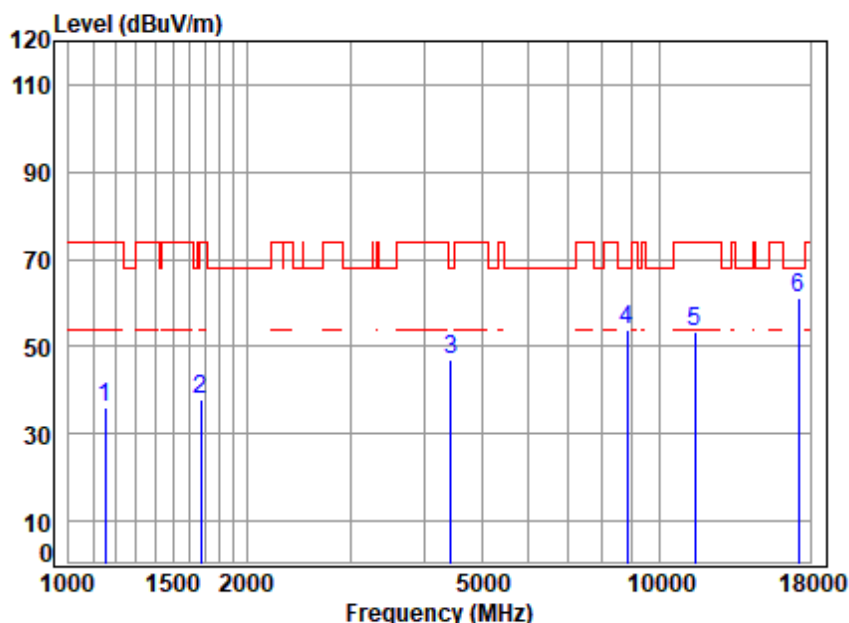
Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5844.5 TX SE
Note : 3M

		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	1152.148	2.67	24.37	39.72	48.53	35.85	74.00	-38.15	peak
2	1533.841	3.29	25.96	39.97	47.72	37.00	74.00	-37.00	peak
3	4354.454	6.63	33.35	41.74	48.33	46.57	74.00	-27.43	peak
4	8866.062	10.25	37.15	39.10	46.14	54.44	68.20	-13.76	peak
5	11689.000	11.86	37.82	37.96	41.62	53.34	74.00	-20.66	peak
6	17533.500	14.06	42.94	40.21	43.70	60.49	68.20	-7.71	peak

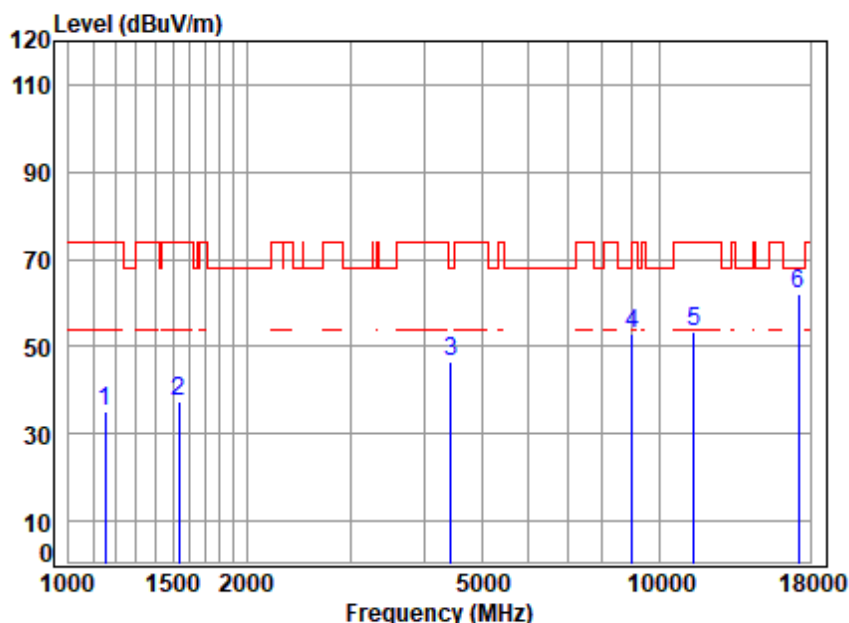
Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5844.5 TX SE
Note : 3M

		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	1152.148	2.67	24.37	39.72	48.82	36.14	74.00	-37.86	peak
2	1672.779	3.41	26.56	40.05	47.84	37.76	74.00	-36.24	peak
3	4430.628	6.70	33.48	41.81	48.64	47.01	68.20	-21.19	peak
4	8814.957	10.23	37.13	39.19	45.65	53.82	68.20	-14.38	peak
5	11490.000	11.62	37.90	37.86	41.52	53.18	74.00	-20.82	peak
6	17235.000	14.09	42.74	40.28	44.55	61.10	68.20	-7.10	peak

Test Mode: 10; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5733.2 TX SE
Note : 3M CA

		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	1152.148	2.67	24.37	39.72	47.99	35.31	74.00	-38.69	peak
2	1538.281	3.29	25.98	39.97	48.00	37.30	74.00	-36.70	peak
3	4430.628	6.70	33.48	41.81	48.12	46.49	68.20	-21.71	peak
4	8995.123	10.30	37.20	38.86	44.32	52.96	68.20	-15.24	peak
5	11466.000	11.59	37.89	37.85	41.84	53.47	74.00	-20.53	peak
6	17199.000	14.11	42.72	40.29	45.65	62.19	68.20	-6.01	peak



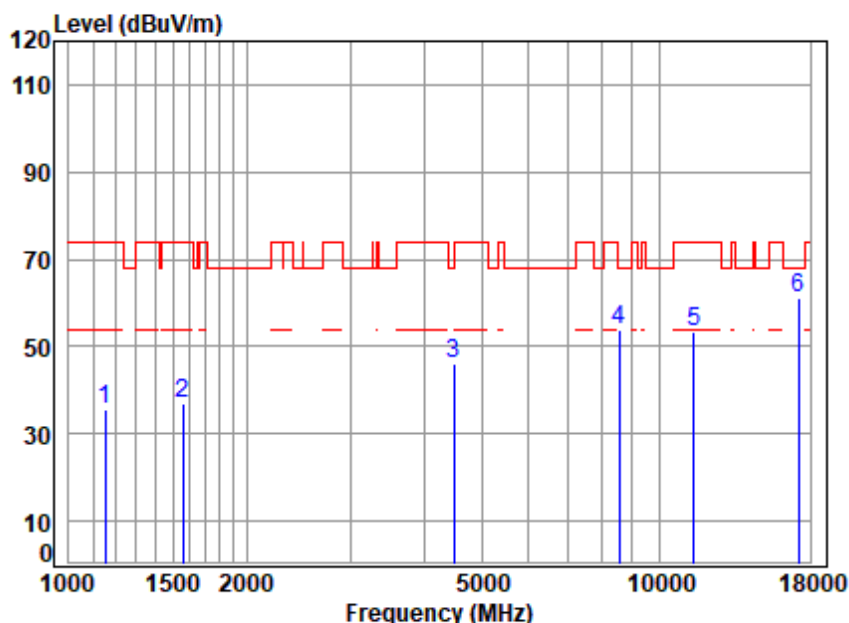
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Test Mode: 10; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5733.2 TX SE
Note : 3M CA

		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	1152.148	2.67	24.37	39.72	48.36	35.68	74.00	-38.32	peak
2	1560.673	3.31	26.08	39.99	47.44	36.84	74.00	-37.16	peak
3	4495.125	6.76	33.59	41.87	47.61	46.09	68.20	-22.11	peak
4	8563.818	10.13	37.03	39.67	46.25	53.74	68.20	-14.46	peak
5	11466.000	11.59	37.89	37.85	41.92	53.55	74.00	-20.45	peak
6	17199.000	14.11	42.72	40.29	44.52	61.06	68.20	-7.14	peak

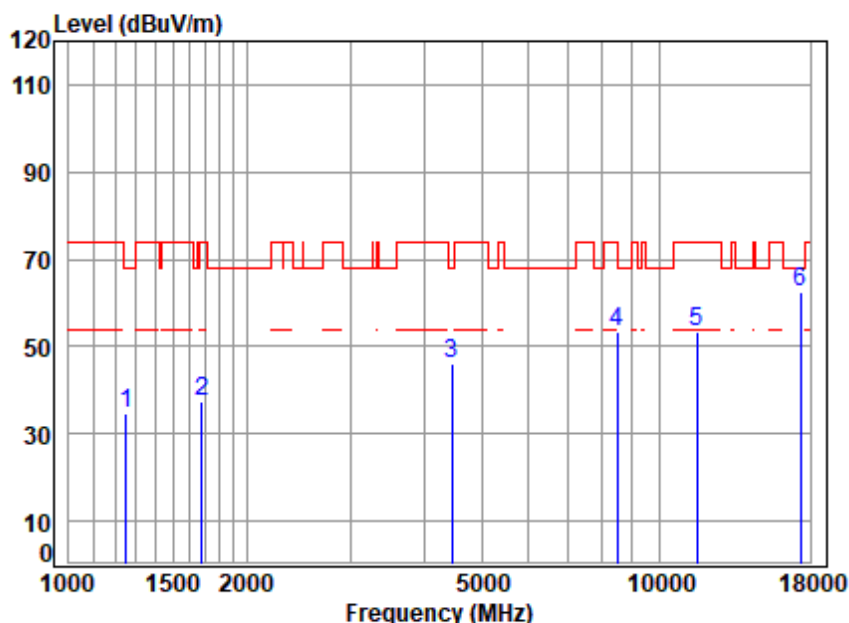


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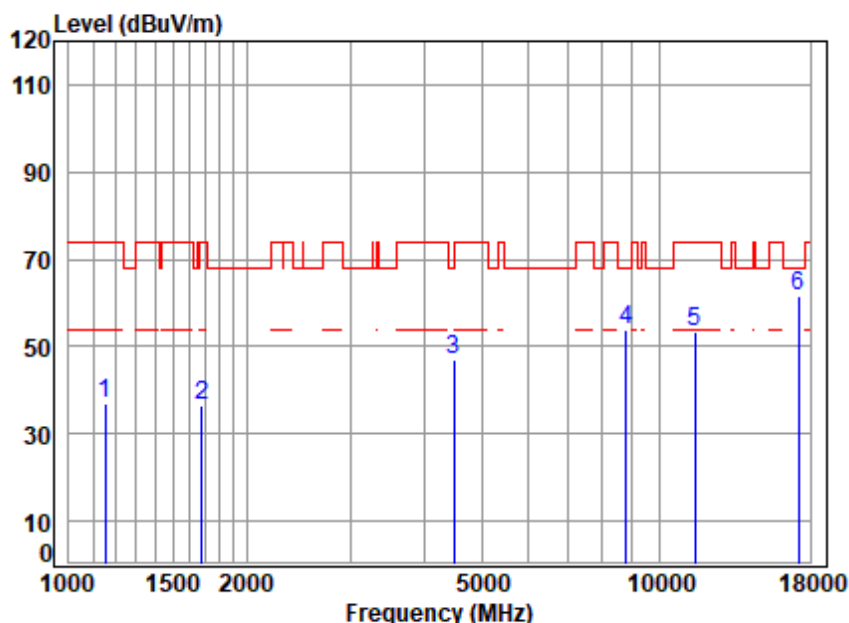
Test Mode: 10; Polarity: Horizontal; Modulation:OFDM; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5787.2 TX SE
Note : 3M CA

		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	1252.885	2.86	24.82	39.80	46.86	34.74	68.20	-33.46	peak
2	1677.621	3.41	26.58	40.05	47.37	37.31	74.00	-36.69	peak
3	4456.315	6.72	33.53	41.84	47.81	46.22	68.20	-21.98	peak
4	8489.882	10.09	36.99	39.81	45.93	53.20	74.00	-20.80	peak
5	11575.000	11.72	37.87	37.90	41.56	53.25	74.00	-20.75	peak
6	17362.500	14.05	42.82	40.25	45.79	62.41	68.20	-5.79	peak

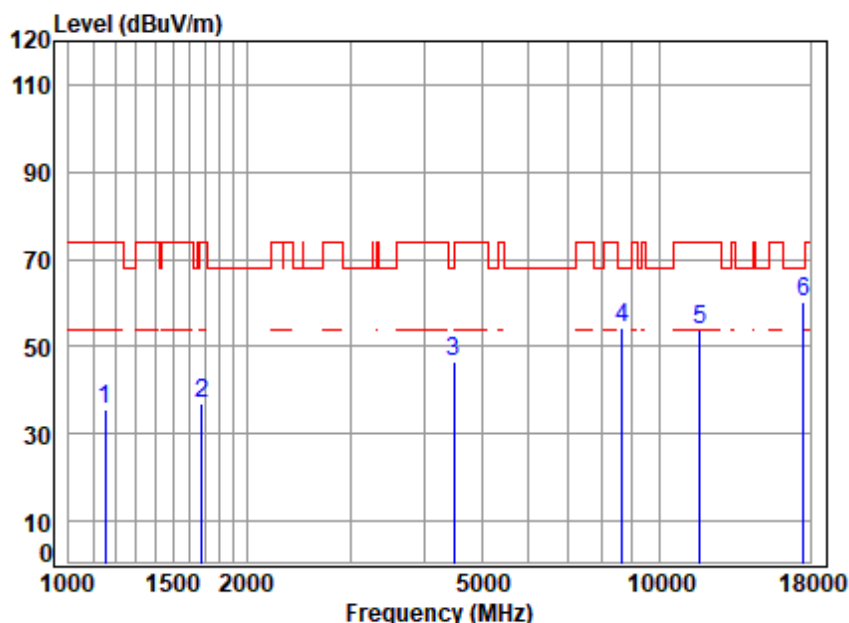
Test Mode: 10; Polarity: Vertical; Modulation:OFDM; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5787.2 TX SE
Note : 3M CA

		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	1152.148	2.67	24.37	39.72	49.45	36.77	74.00	-37.23	peak
2	1682.477	3.42	26.60	40.05	46.72	36.69	74.00	-37.31	peak
3	4482.150	6.74	33.57	41.86	48.33	46.78	68.20	-21.42	peak
4	8789.516	10.22	37.12	39.24	45.78	53.88	68.20	-14.32	peak
5	11490.000	11.62	37.90	37.86	41.90	53.56	74.00	-20.44	peak
6	17235.000	14.09	42.74	40.28	45.21	61.76	68.20	-6.44	peak

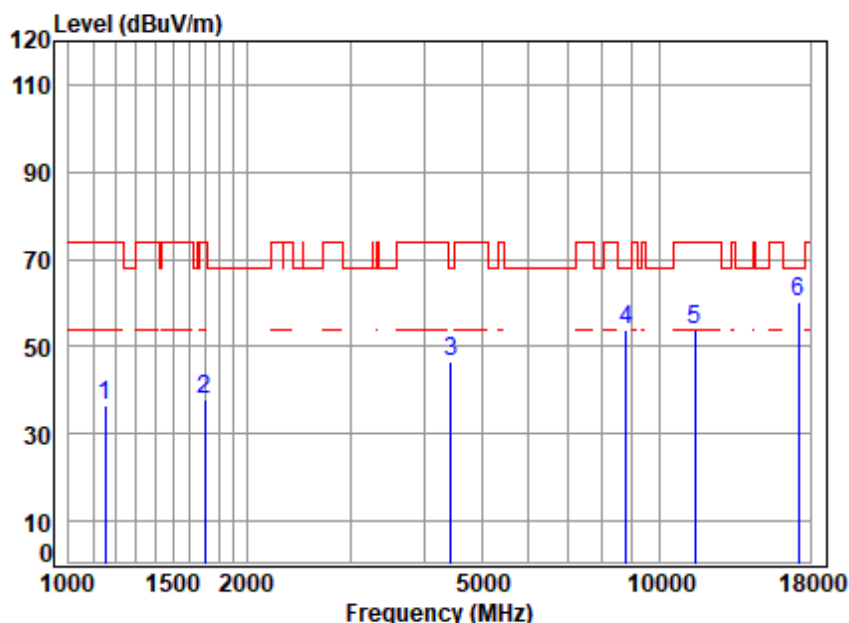
Test Mode: 10; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5847.2 TX SE
Note : 3M CA

		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	1152.148	2.67	24.37	39.72	48.11	35.43	74.00	-38.57	peak
2	1677.621	3.41	26.58	40.05	47.22	37.16	74.00	-36.84	peak
3	4495.125	6.76	33.59	41.87	48.04	46.52	68.20	-21.68	peak
4	8638.399	10.16	37.06	39.53	46.44	54.13	68.20	-14.07	peak
5	11693.000	11.87	37.82	37.96	42.08	53.81	74.00	-20.19	peak
6	17539.500	14.07	42.95	40.21	43.37	60.18	68.20	-8.02	peak

Test Mode: 10; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5847.2 TX SE
Note : 3M CA

		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	1152.148	2.67	24.37	39.72	49.02	36.34	74.00	-37.66	peak
2	1702.042	3.43	26.68	40.06	47.87	37.92	74.00	-36.08	peak
3	4430.628	6.70	33.48	41.81	48.02	46.39	68.20	-21.81	peak
4	8789.516	10.22	37.12	39.24	45.68	53.78	68.20	-14.42	peak
5	11490.000	11.62	37.90	37.86	42.30	53.96	74.00	-20.04	peak
6	17235.000	14.09	42.74	40.28	43.51	60.06	68.20	-8.14	peak



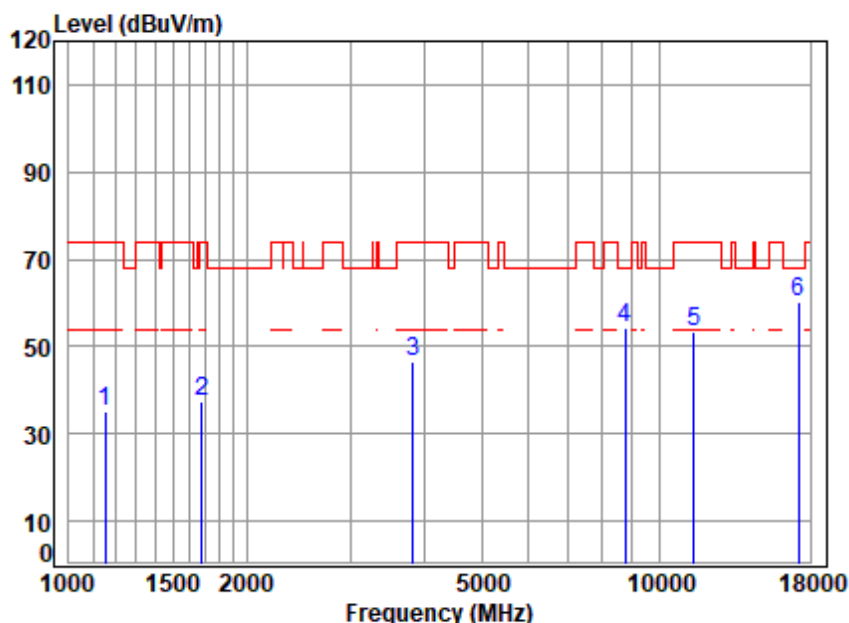
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Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.5 TX SE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	48.02	35.34	74.00	-38.66	peak
2	1682.477	3.42	26.60	40.05	47.37	37.34	74.00	-36.66	peak
3	3834.438	6.04	32.38	41.30	49.52	46.64	74.00	-27.36	peak
4	8764.146	10.21	37.11	39.29	46.27	54.30	68.20	-13.90	peak
5	11461.000	11.58	37.89	37.85	41.86	53.48	74.00	-20.52	peak
6	17191.500	14.11	42.72	40.30	43.81	60.34	68.20	-7.86	peak



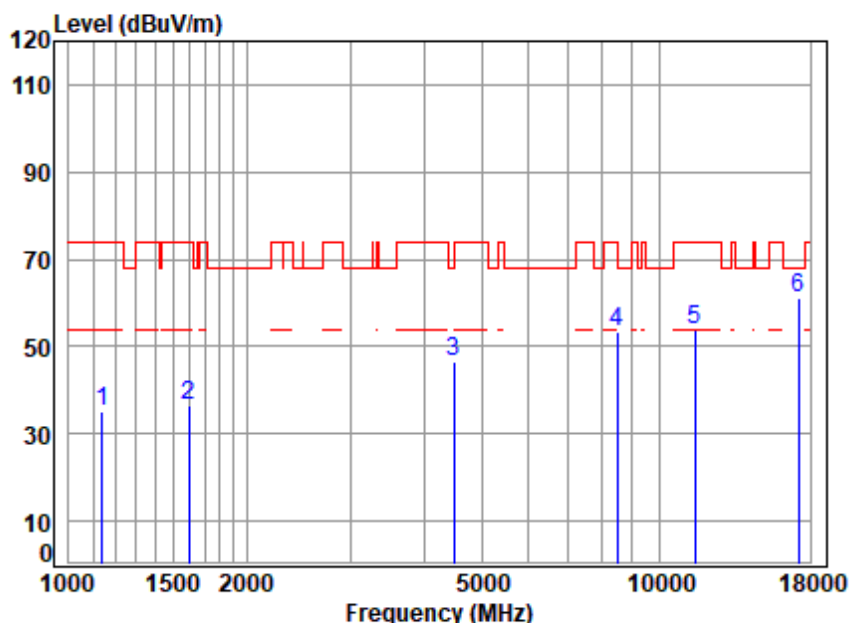
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Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.5 TX SE
Note : 10M

		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	1138.904	2.65	24.31	39.71	47.93	35.18	74.00	-38.82	peak
2	1597.181	3.35	26.24	40.01	47.12	36.70	74.00	-37.30	peak
3	4495.125	6.76	33.59	41.87	47.88	46.36	68.20	-21.84	peak
4	8489.882	10.09	36.99	39.81	46.18	53.45	74.00	-20.55	peak
5	11490.000	11.62	37.90	37.86	41.97	53.63	74.00	-20.37	peak
6	17235.000	14.09	42.74	40.28	44.80	61.35	68.20	-6.85	peak

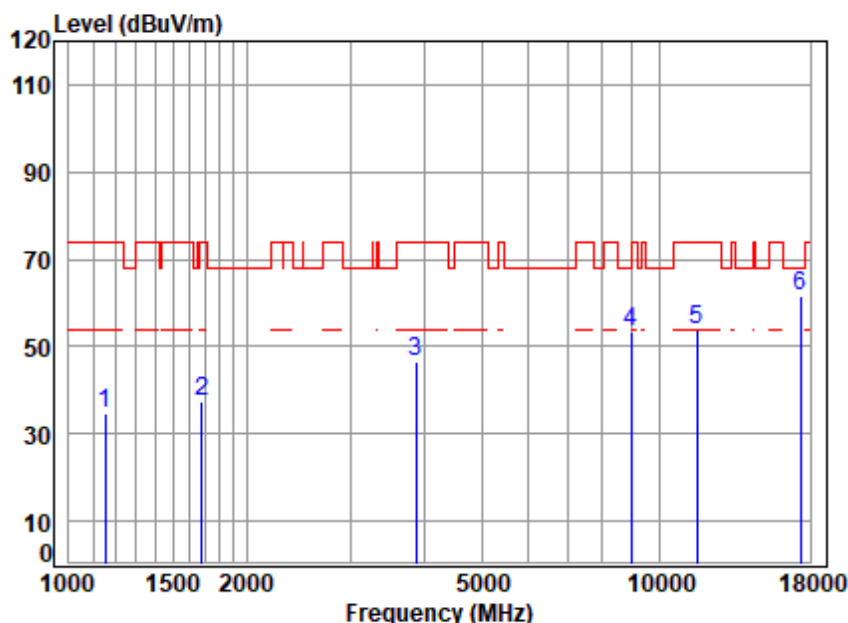


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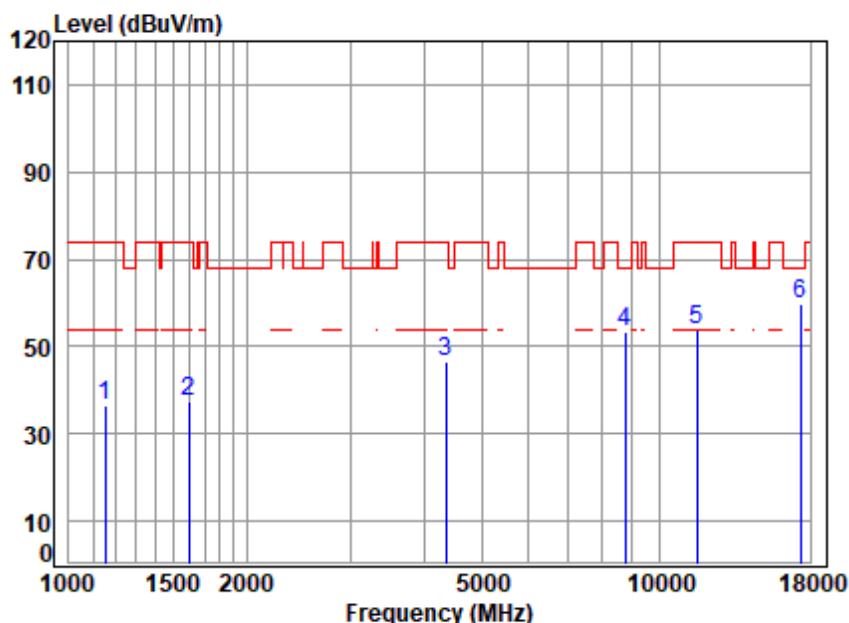
Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 10M

		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	1152.148	2.67	24.37	39.72	47.20	34.52	74.00	-39.48	peak
2	1677.621	3.41	26.58	40.05	47.26	37.20	74.00	-36.80	peak
3	3867.831	6.09	32.45	41.32	49.50	46.72	74.00	-27.28	peak
4	8943.274	10.28	37.18	38.95	45.03	53.54	68.20	-14.66	peak
5	11572.000	11.72	37.87	37.90	42.03	53.72	74.00	-20.28	peak
6	17358.000	14.05	42.82	40.25	45.06	61.68	68.20	-6.52	peak

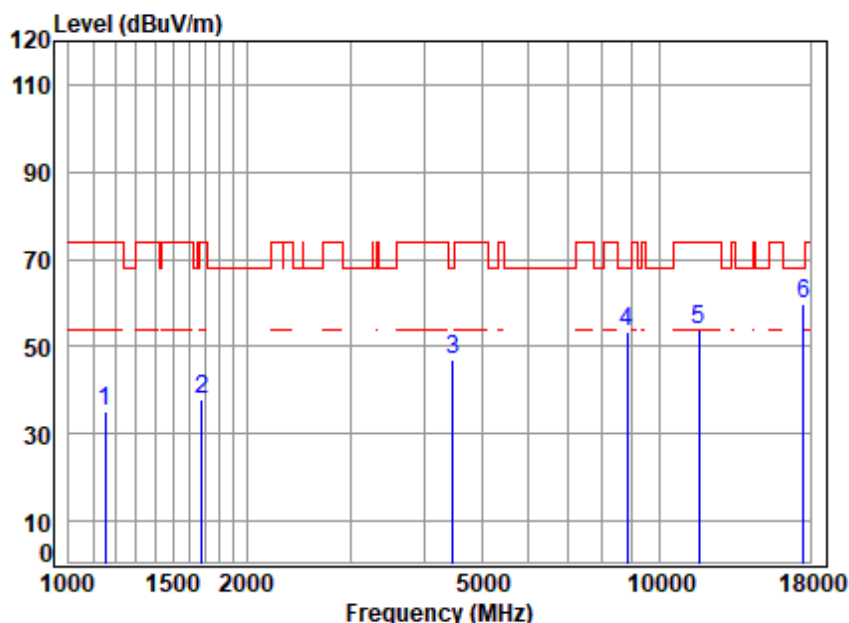
Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	49.07	36.39	74.00	-37.61	peak
2	1597.181	3.35	26.24	40.01	47.71	37.29	74.00	-36.71	peak
3	4354.454	6.63	33.35	41.74	48.17	46.41	74.00	-27.59	peak
4	8764.146	10.21	37.11	39.29	45.50	53.53	68.20	-14.67	peak
5	11572.000	11.72	37.87	37.90	42.00	53.69	74.00	-20.31	peak
6	17358.000	14.05	42.82	40.25	43.34	59.96	68.20	-8.24	peak

Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5844.5 TX SE
Note : 10M

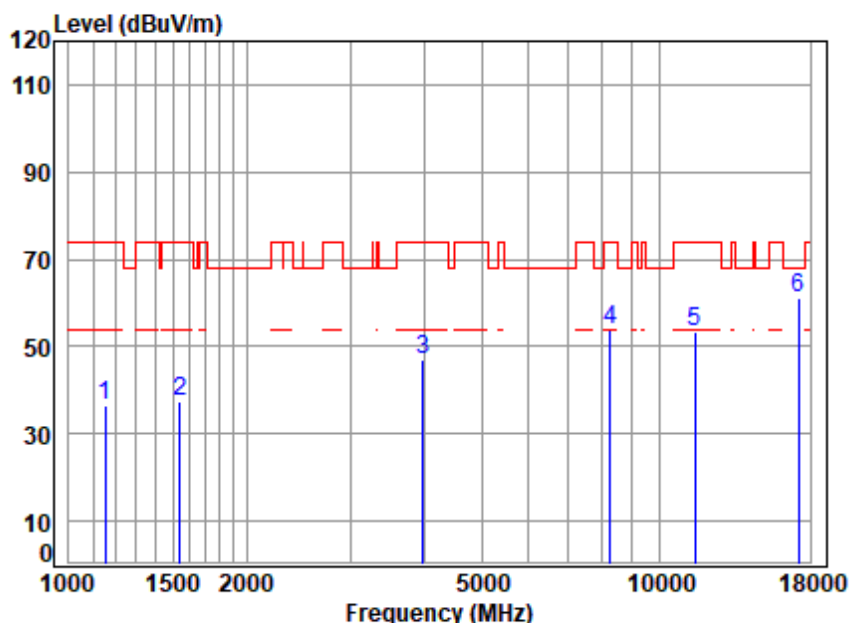
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	47.90	35.22	74.00	-38.78	peak
2	1677.621	3.41	26.58	40.05	47.75	37.69	74.00	-36.31	peak
3	4469.214	6.73	33.55	41.85	48.43	46.86	68.20	-21.34	peak
4	8814.957	10.23	37.13	39.19	45.26	53.43	68.20	-14.77	peak
5	11689.000	11.86	37.82	37.96	42.05	53.77	74.00	-20.23	peak
6	17533.500	14.06	42.94	40.21	42.94	59.73	68.20	-8.47	peak



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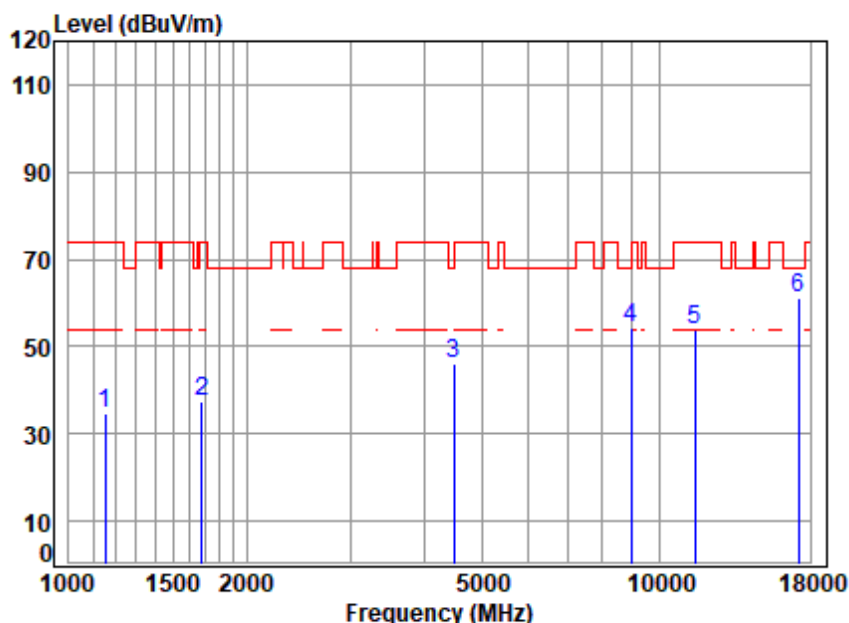
Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5844.5 TX SE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	49.24	36.56	74.00	-37.44	peak
2	1542.733	3.30	26.00	39.98	48.08	37.40	74.00	-36.60	peak
3	3981.257	6.25	32.66	41.39	49.36	46.88	74.00	-27.12	peak
4	8248.005	9.76	36.85	40.29	47.48	53.80	74.00	-20.20	peak
5	11490.000	11.62	37.90	37.86	41.83	53.49	74.00	-20.51	peak
6	17235.000	14.09	42.74	40.28	44.80	61.35	68.20	-6.85	peak

Test Mode: 12; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5735.5 TX SE
Note : 20M

		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	1152.148	2.67	24.37	39.72	47.42	34.74	74.00	-39.26	peak
2	1682.477	3.42	26.60	40.05	47.27	37.24	74.00	-36.76	peak
3	4482.150	6.74	33.57	41.86	47.83	46.28	68.20	-21.92	peak
4	8943.274	10.28	37.18	38.95	45.80	54.31	68.20	-13.89	peak
5	11471.000	11.59	37.89	37.85	42.19	53.82	74.00	-20.18	peak
6	17206.500	14.10	42.72	40.29	44.66	61.19	68.20	-7.01	peak



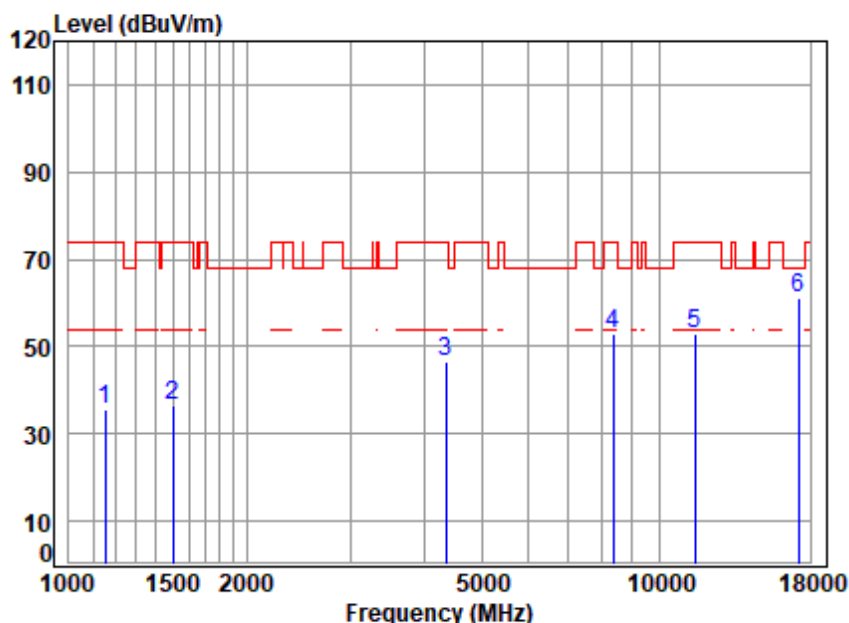
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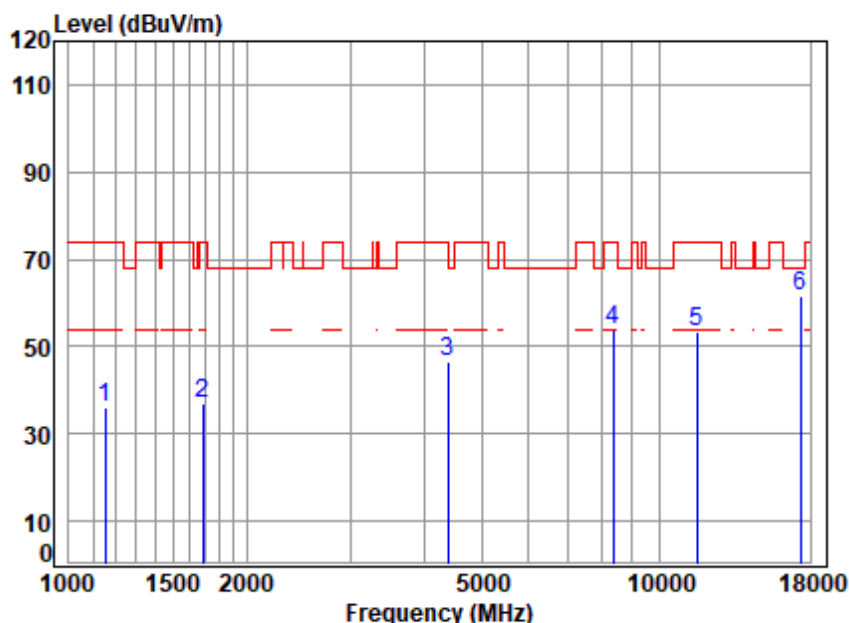
Test Mode: 12; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5735.5 TX SE
Note : 20M

		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	1152.148	2.67	24.37	39.72	48.13	35.45	74.00	-38.55	peak
2	1503.119	3.26	25.81	39.95	47.52	36.64	74.00	-37.36	peak
3	4354.454	6.63	33.35	41.74	48.28	46.52	74.00	-27.48	peak
4	8343.918	9.89	36.91	40.10	46.38	53.08	74.00	-20.92	peak
5	11490.000	11.62	37.90	37.86	41.36	53.02	74.00	-20.98	peak
6	17235.000	14.09	42.74	40.28	44.44	60.99	68.20	-7.21	peak

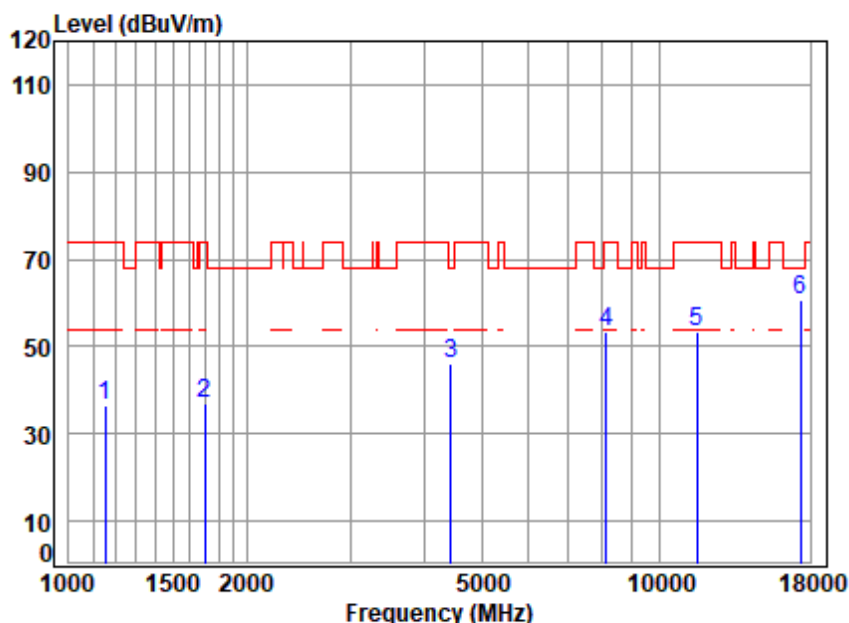
Test Mode: 12; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 20M

		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	1152.148	2.67	24.37	39.72	48.50	35.82	74.00	-38.18	peak
2	1687.347	3.42	26.62	40.05	47.19	37.18	74.00	-36.82	peak
3	4392.376	6.66	33.42	41.78	48.08	46.38	74.00	-27.62	peak
4	8368.069	9.92	36.92	40.05	46.91	53.70	74.00	-20.30	peak
5	11572.000	11.72	37.87	37.90	41.64	53.33	74.00	-20.67	peak
6	17358.000	14.05	42.82	40.25	44.96	61.58	68.20	-6.62	peak

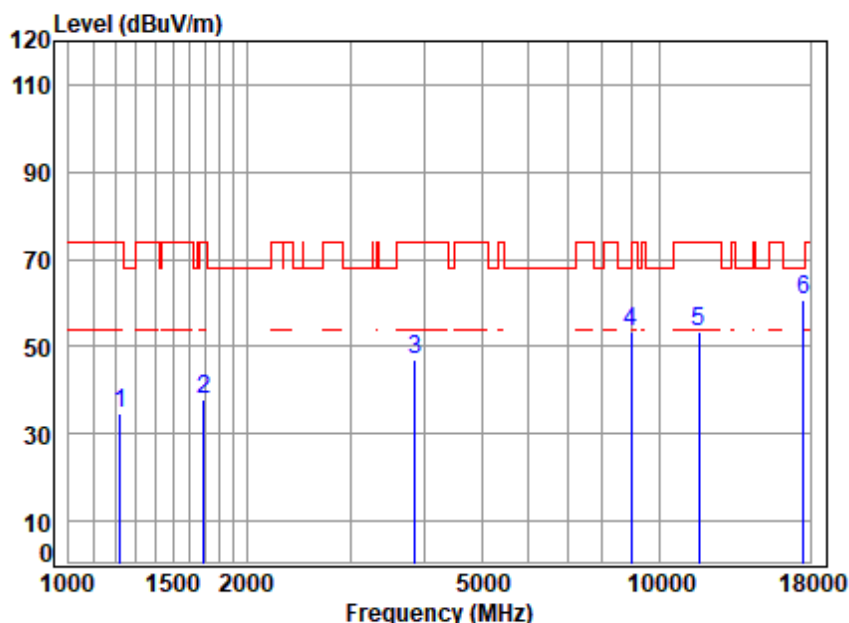
Test Mode: 12; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 20M

		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	1152.148	2.67	24.37	39.72	49.09	36.41	74.00	-37.59	peak
2	1702.042	3.43	26.68	40.06	46.80	36.85	74.00	-37.15	peak
3	4443.453	6.71	33.50	41.82	47.69	46.08	68.20	-22.12	peak
4	8129.664	9.60	36.78	40.53	47.51	53.36	74.00	-20.64	peak
5	11572.000	11.72	37.87	37.90	41.60	53.29	74.00	-20.71	peak
6	17358.000	14.05	42.82	40.25	44.06	60.68	68.20	-7.52	peak

Test Mode: 12; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5839.5 TX SE
Note : 20M

		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	1224.247	2.81	24.70	39.78	46.74	34.47	74.00	-39.53	peak
2	1692.231	3.42	26.64	40.06	47.82	37.82	74.00	-36.18	peak
3	3856.668	6.07	32.43	41.31	49.59	46.78	74.00	-27.22	peak
4	8969.161	10.29	37.19	38.90	44.85	53.43	68.20	-14.77	peak
5	11679.000	11.85	37.83	37.95	41.73	53.46	74.00	-20.54	peak
6	17518.500	14.04	42.92	40.22	43.78	60.52	68.20	-7.68	peak



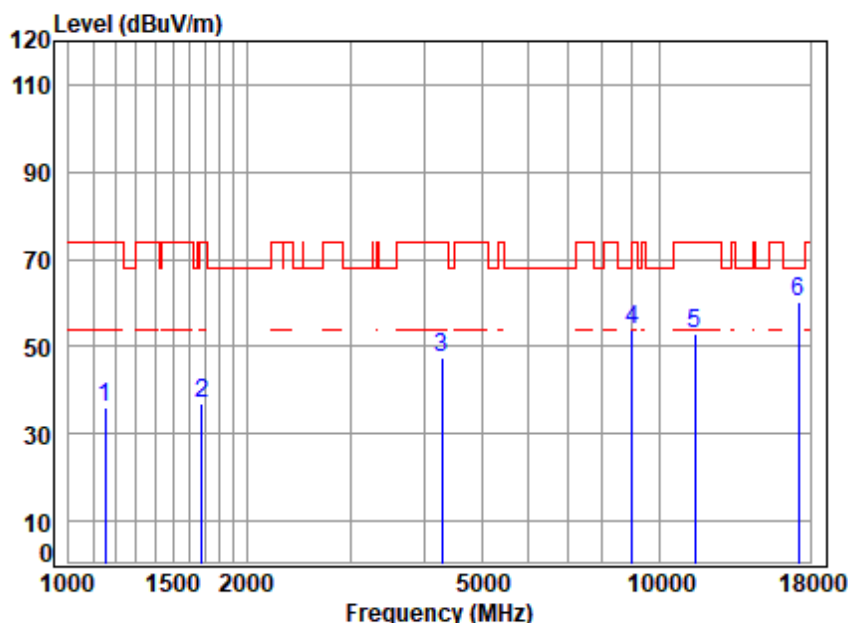
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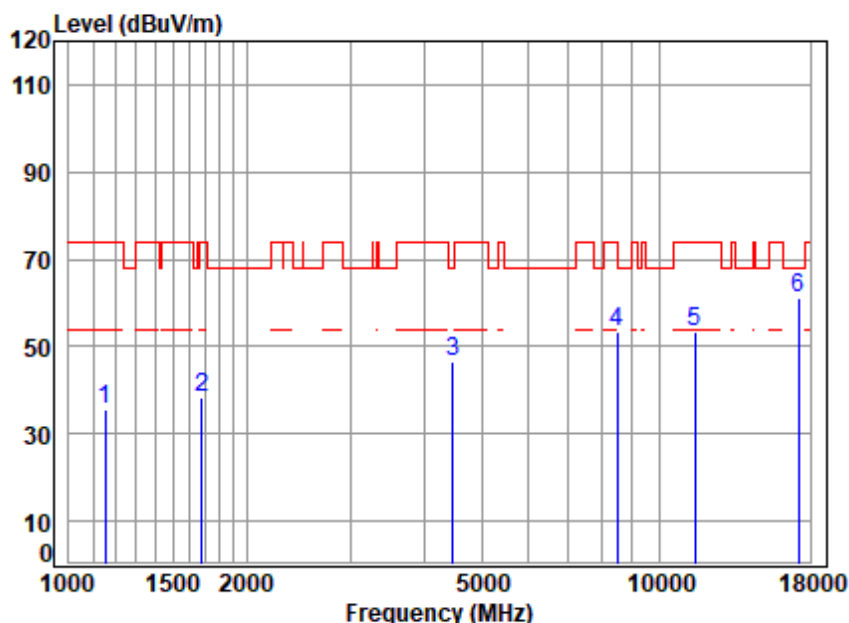
Test Mode: 12; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5839.5 TX SE
Note : 20M

		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	1152.148	2.67	24.37	39.72	48.56	35.88	74.00	-38.12	peak
2	1677.621	3.41	26.58	40.05	47.01	36.95	74.00	-37.05	peak
3	4279.589	6.56	33.22	41.67	49.20	47.31	74.00	-26.69	peak
4	8995.123	10.30	37.20	38.86	45.17	53.81	68.20	-14.39	peak
5	11490.000	11.62	37.90	37.86	41.39	53.05	74.00	-20.95	peak
6	17235.000	14.09	42.74	40.28	43.77	60.32	68.20	-7.88	peak

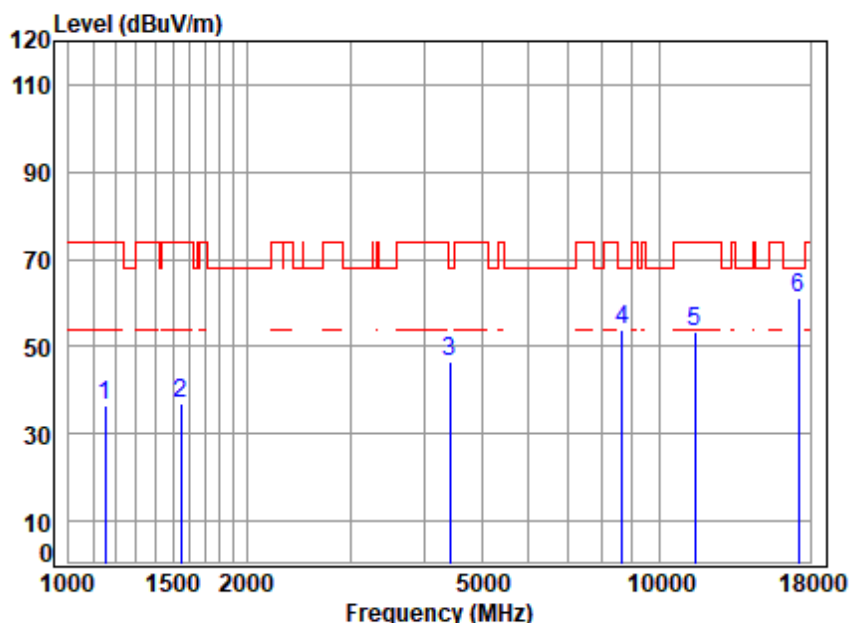
Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5745.5 TX SE
Note : 40M

		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	1152.148	2.67	24.37	39.72	48.14	35.46	74.00	-38.54	peak
2	1677.621	3.41	26.58	40.05	48.21	38.15	74.00	-35.85	peak
3	4469.214	6.73	33.55	41.85	48.32	46.75	68.20	-21.45	peak
4	8489.882	10.09	36.99	39.81	45.92	53.19	74.00	-20.81	peak
5	11490.000	11.62	37.90	37.86	41.76	53.42	74.00	-20.58	peak
6	17235.000	14.09	42.74	40.28	44.58	61.13	68.20	-7.07	peak

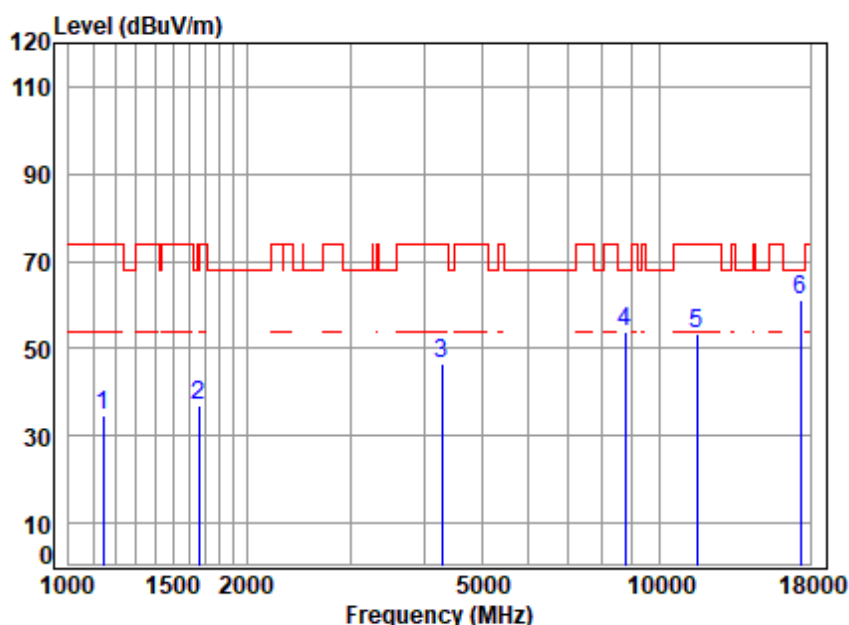
Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5745.5 TX SE
Note : 40M

		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	1152.148	2.67	24.37	39.72	49.34	36.66	74.00	-37.34	peak
2	1547.199	3.30	26.02	39.98	47.50	36.84	74.00	-37.16	peak
3	4417.841	6.68	33.46	41.80	48.17	46.51	68.20	-21.69	peak
4	8638.399	10.16	37.06	39.53	45.99	53.68	68.20	-14.52	peak
5	11490.000	11.62	37.90	37.86	41.55	53.21	74.00	-20.79	peak
6	17235.000	14.09	42.74	40.28	44.52	61.07	68.20	-7.13	peak

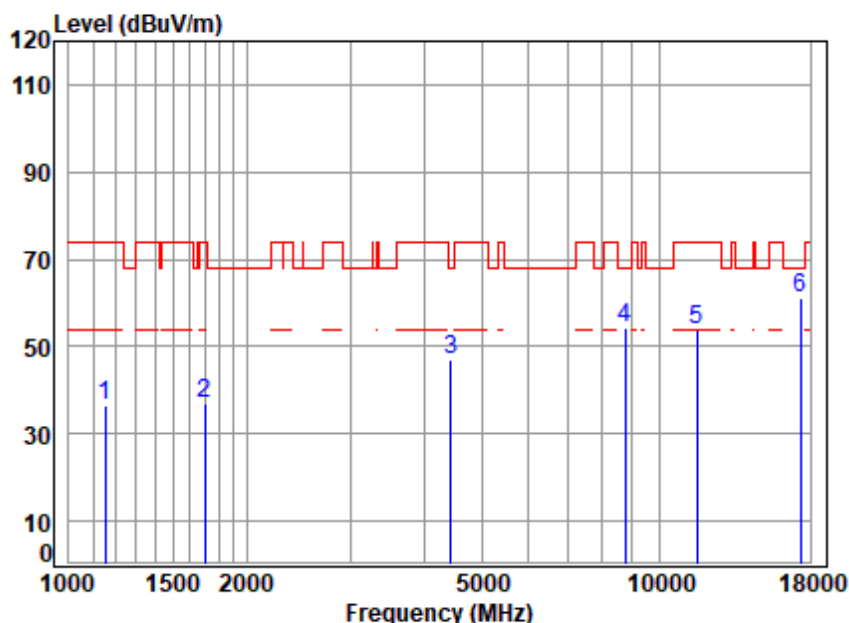
Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	2.66	24.34	39.72	47.55	34.83	74.00	-39.17	peak
2	1663.137	3.40	26.52	40.04	47.05	36.93	74.00	-37.07	peak
3	4291.977	6.57	33.24	41.68	48.32	46.45	74.00	-27.55	peak
4	8764.146	10.21	37.11	39.29	45.73	53.76	68.20	-14.44	peak
5	11573.000	11.72	37.87	37.90	41.62	53.31	74.00	-20.69	peak
6	17359.500	14.05	42.82	40.25	44.36	60.98	68.20	-7.22	peak

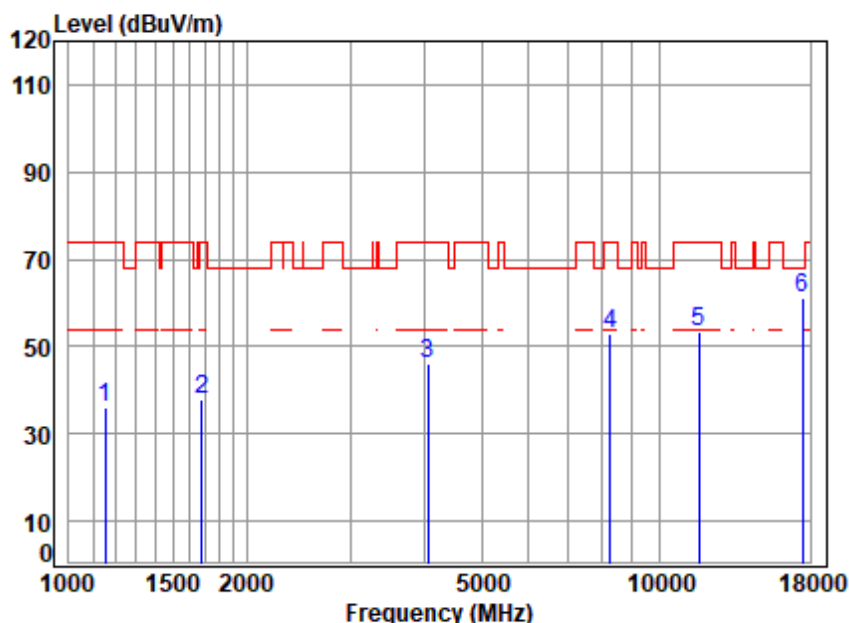
Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5786.5 TX SE
Note : 40M

		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	1152.148	2.67	24.37	39.72	48.99	36.31	74.00	-37.69	peak
2	1702.042	3.43	26.68	40.06	46.69	36.74	74.00	-37.26	peak
3	4443.453	6.71	33.50	41.82	48.41	46.80	68.20	-21.40	peak
4	8764.146	10.21	37.11	39.29	46.31	54.34	68.20	-13.86	peak
5	11573.000	11.72	37.87	37.90	42.00	53.69	74.00	-20.31	peak
6	17359.500	14.05	42.82	40.25	44.52	61.14	68.20	-7.06	peak

Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5829.5 TX SE
Note : 40M

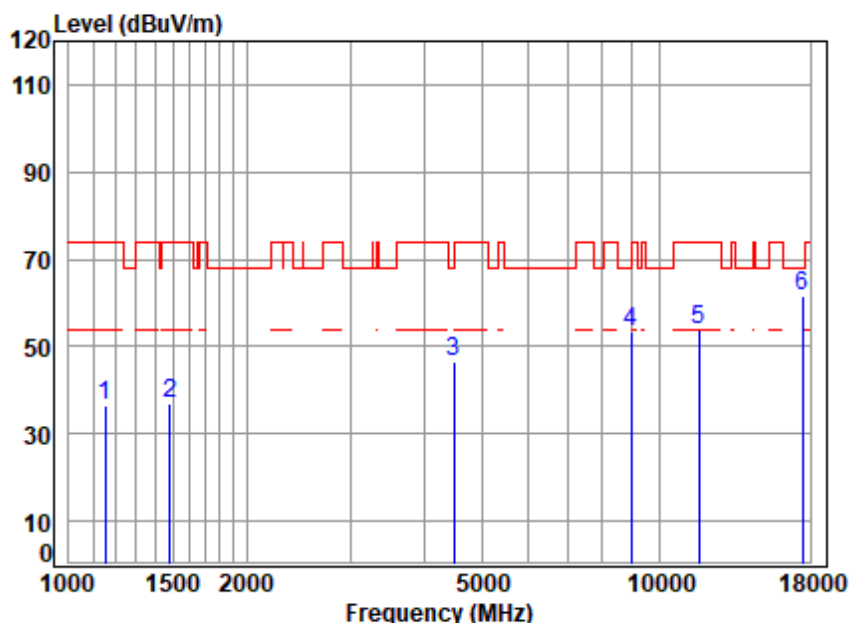
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	48.52	35.84	74.00	-38.16	peak
2	1677.621	3.41	26.58	40.05	48.04	37.98	74.00	-36.02	peak
3	4050.904	6.33	32.80	41.45	48.55	46.23	74.00	-27.77	peak
4	8248.005	9.76	36.85	40.29	46.76	53.08	74.00	-20.92	peak
5	11659.000	11.83	37.84	37.94	41.65	53.38	74.00	-20.62	peak
6	17488.500	14.01	42.89	40.22	44.44	61.12	68.20	-7.08	peak



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Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5829.5 TX SE
Note : 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	39.72	49.31	36.63	74.00	-37.37	peak
2	1481.553	3.23	25.73	39.94	47.97	36.99	74.00	-37.01	peak
3	4482.150	6.74	33.57	41.86	47.94	46.39	68.20	-21.81	peak
4	8943.274	10.28	37.18	38.95	45.06	53.57	68.20	-14.63	peak
5	11659.000	11.83	37.84	37.94	41.91	53.64	74.00	-20.36	peak
6	17488.500	14.01	42.89	40.22	45.05	61.73	68.20	-6.47	peak

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart E 15.407

Test Method: KDB 789033 D02 II G

Limit:

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

*(1) 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.

(2) 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.

(3) 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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C

Humidity: 51.3 % RH

Atmospheric Pressure: 1010 mbar



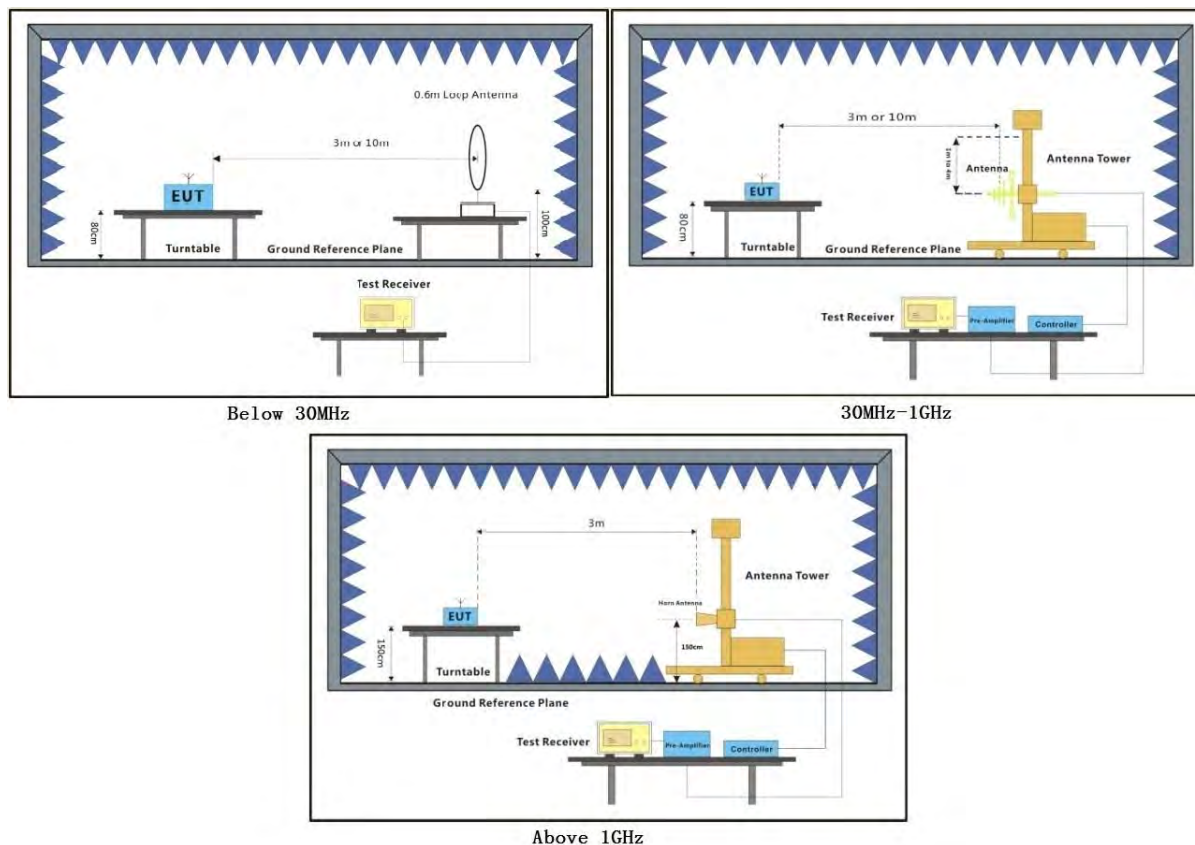
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7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.7.3 Test Setup Diagram



7.7.4 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



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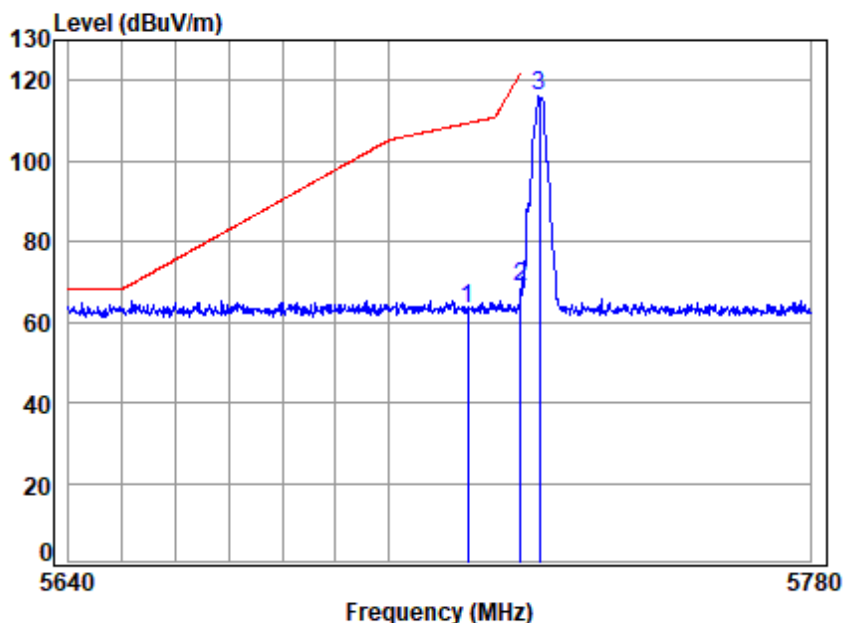
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Antenna 1,2,3,4,1+2,1+4,2+3 and 3+4 were tested. Only the worst case(Antenna 1+2) was recorded in the report.

Test Mode: 07; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5728.5 Band edge
: 1.4M

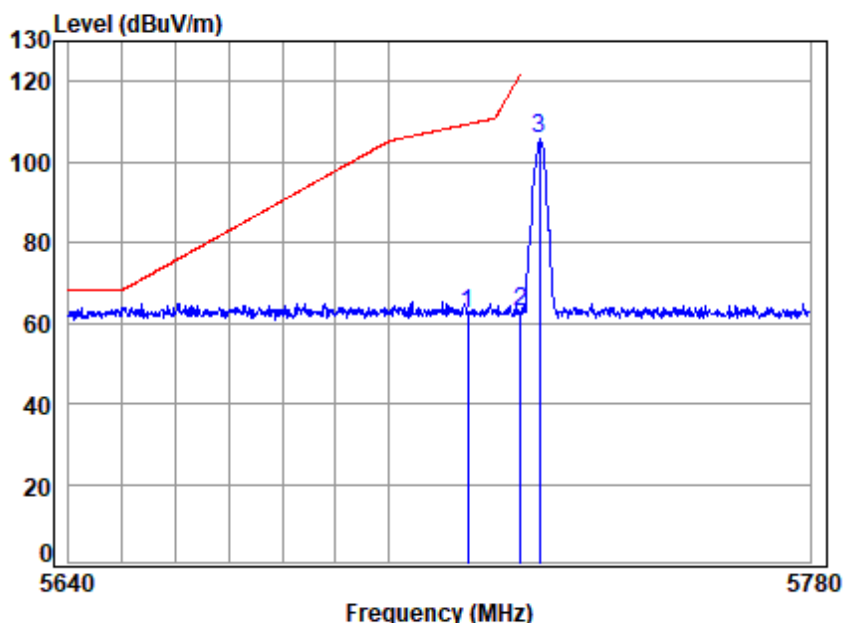
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.37	62.81	63.48	109.40	-45.92 peak
2	5725.000	8.22	34.83	42.37	67.85	68.53	122.20	-53.67 peak
3	5728.500	8.22	34.83	42.37	115.63	116.31	-----	----- peak



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Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5728.5 Band edge
: 1.4M

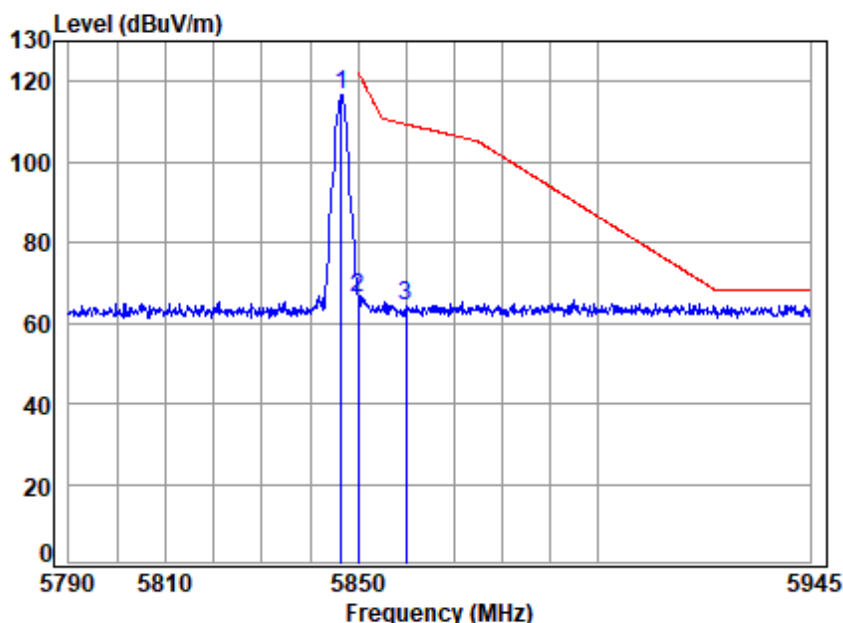
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	61.51	62.18	109.40	-47.22 peak
2	5725.000	8.22	34.83	42.37	61.97	62.65	122.20	-59.55 peak
3	5728.500	8.22	34.83	42.37	104.90	105.58	-----	----- peak



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Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5846.5 Band edge
: 1.4M

		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	8.24	34.95	42.39	116.08	116.88	-----	----- peak
2	5850.000	8.24	34.95	42.39	65.52	66.32	122.20	-55.88 peak
3	5860.000	8.24	34.96	42.39	63.65	64.46	109.40	-44.94 peak



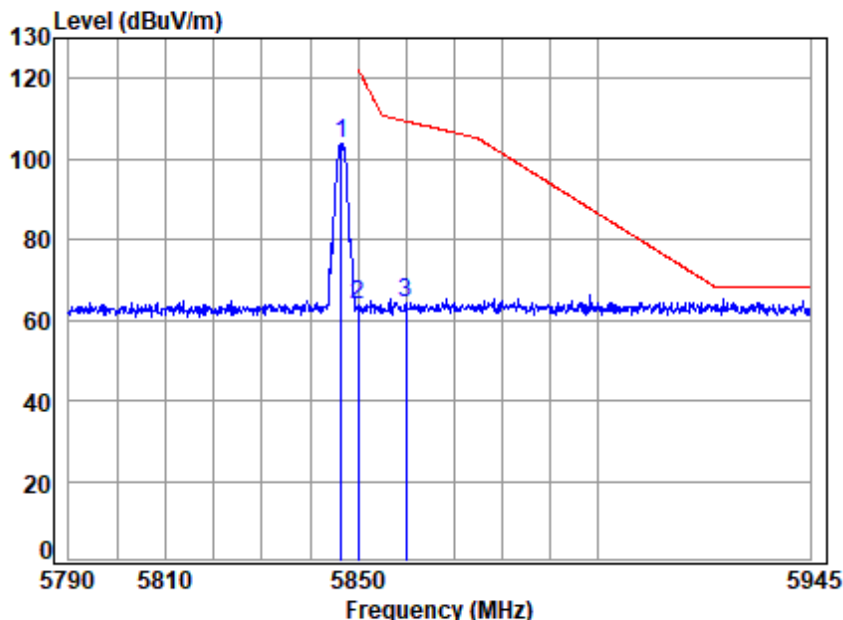
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Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5846.5 Band edge
: 1.4M

		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	8.24	34.95	42.39	102.97	103.77	-----	----- peak
2	5850.000	8.24	34.95	42.39	62.79	63.59	122.20	-58.61 peak
3	5860.000	8.24	34.96	42.39	63.37	64.18	109.40	-45.22 peak



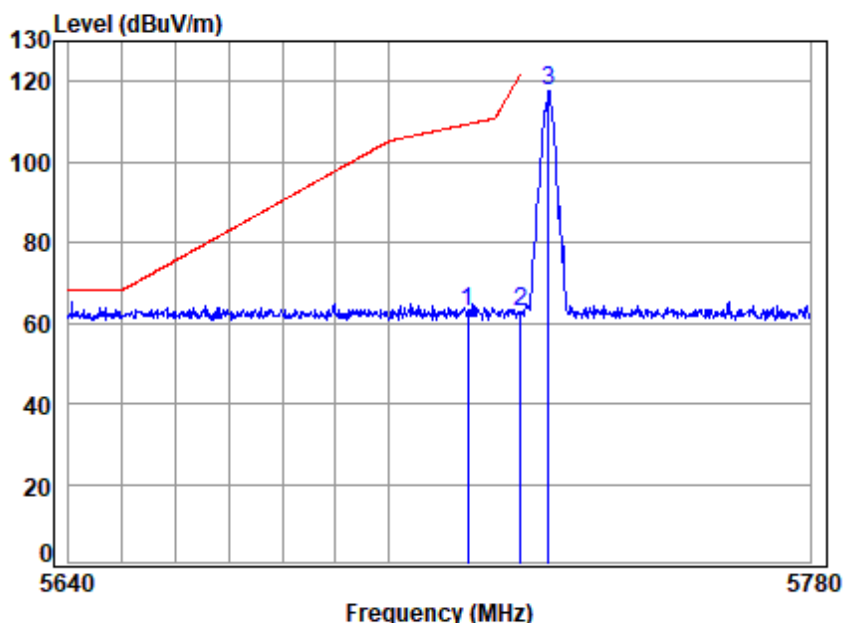
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Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.12 Band edge
: 1.4M CA

		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	5715.000	8.22	34.82	42.37	62.01	62.68	109.40	-46.72 peak
2	5725.000	8.22	34.83	42.37	62.25	62.93	122.20	-59.27 peak
3	5730.120	8.22	34.84	42.37	117.07	117.76	-----	----- peak



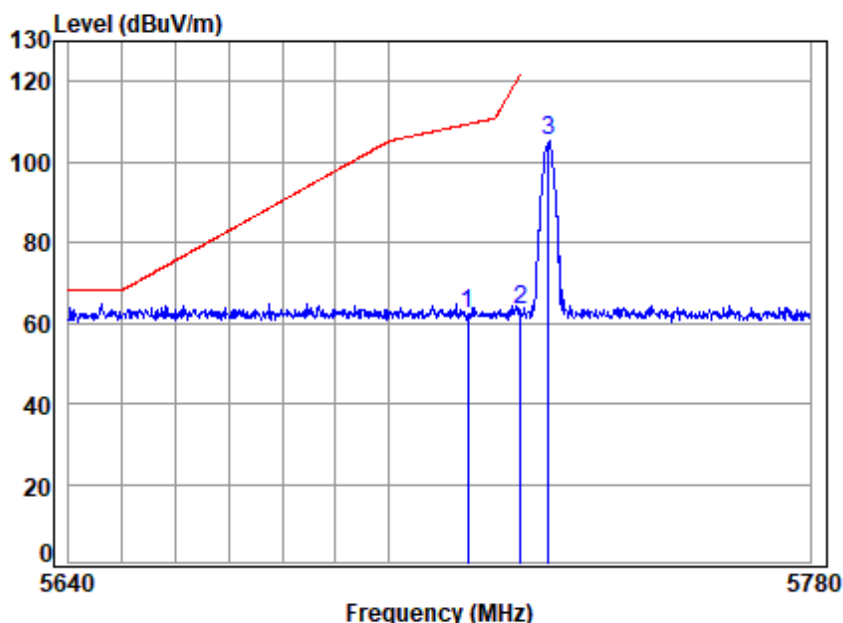
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Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: Low



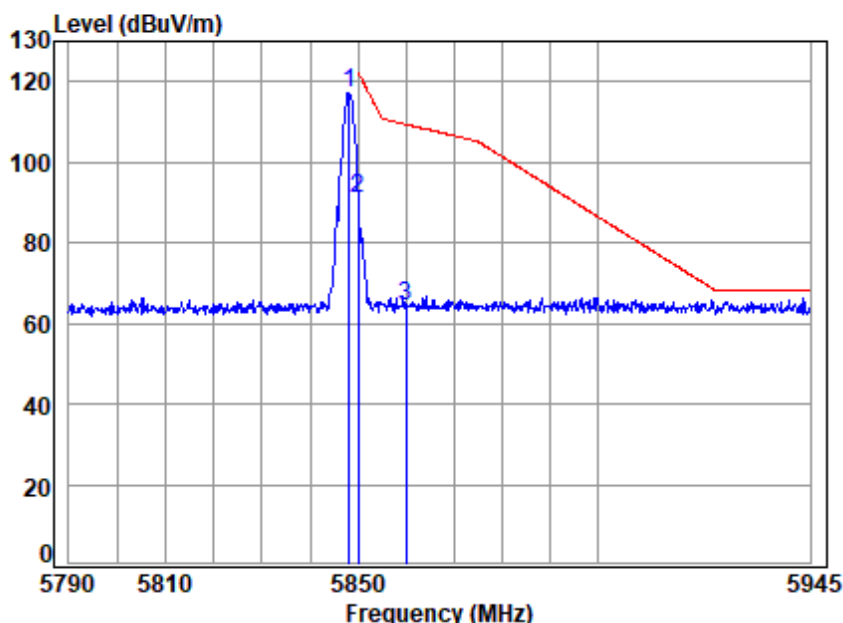
Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.12 Band edge
: 1.4M CA

		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 5715.000	8.22	34.82	42.37	61.82	62.49	109.40	-46.91	peak
2 5725.000	8.22	34.83	42.37	62.74	63.42	122.20	-58.78	peak
3 5730.120	8.22	34.84	42.37	104.76	105.45	-----	-----	peak



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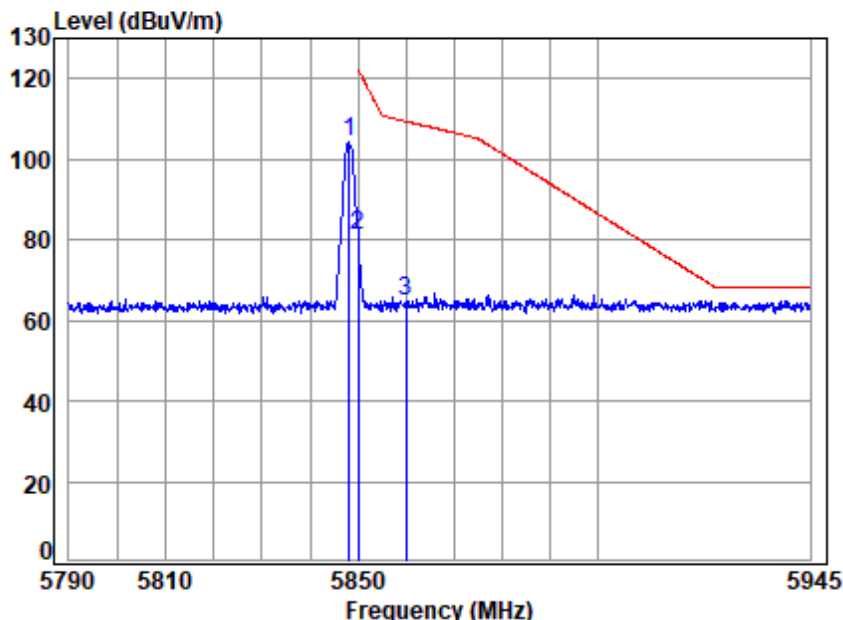
Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5848.12 Band edge
: 1.4M CA

		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	5848.120	8.24	34.95	42.39	116.47	117.27	-----	-----	peak
2	5850.000	8.24	34.95	42.39	90.35	91.15	122.20	-31.05	peak
3	5860.000	8.24	34.96	42.39	63.55	64.36	109.40	-45.04	peak

Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5848.12 Band edge
: 1.4M CA

		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 5848.120	8.24	34.95	42.39	103.71	104.51	-----	-----	peak
2 5850.000	8.24	34.95	42.39	80.30	81.10	122.20	-41.10	peak
3 5860.000	8.24	34.96	42.39	63.70	64.51	109.40	-44.89	peak



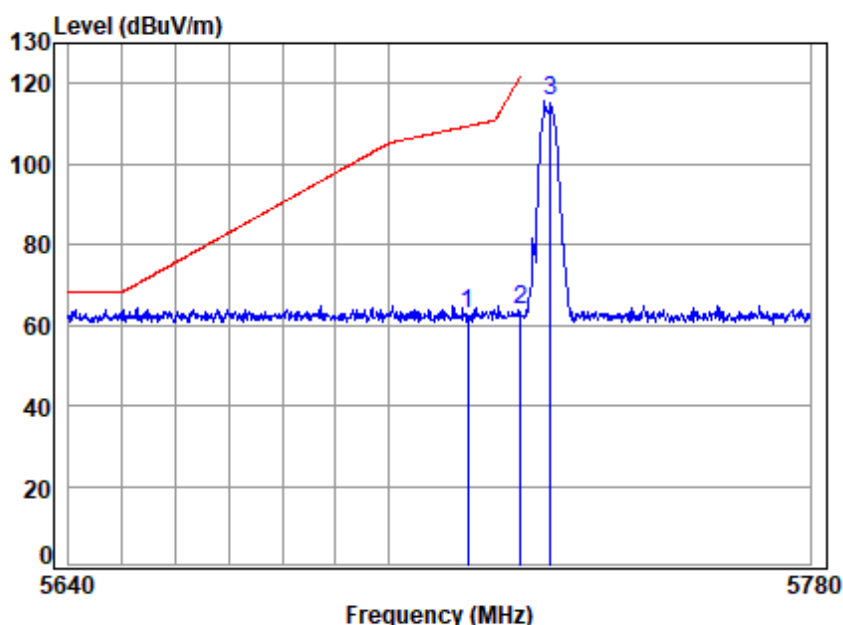
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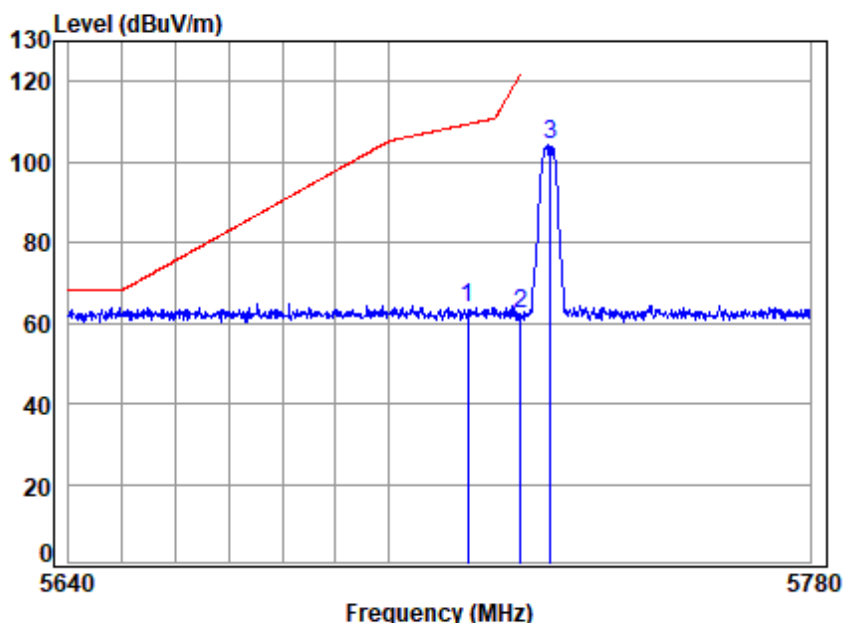
Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.5 Band edge
: 3M

		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	5715.000	8.22	34.82	42.37	62.22	62.89	109.40	-46.51 peak
2	5725.000	8.22	34.83	42.37	63.17	63.85	122.20	-58.35 peak
3	5730.500	8.22	34.84	42.37	114.96	115.65	-----	----- peak

Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.5 Band edge
: 3M

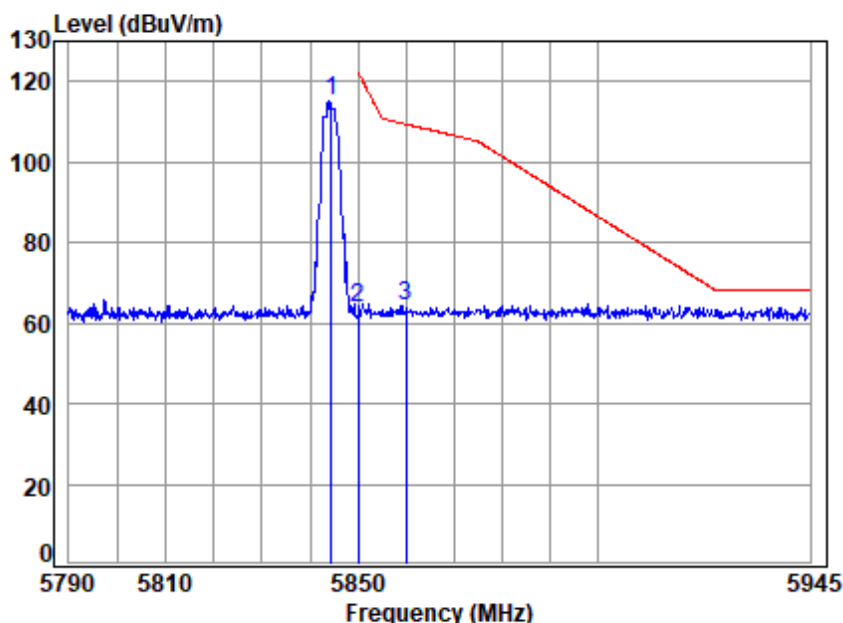
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	63.01	63.68	109.40	-45.72 peak
2	5725.000	8.22	34.83	42.37	61.49	62.17	122.20	-60.03 peak
3	5730.500	8.22	34.84	42.37	103.59	104.28	-----	----- peak



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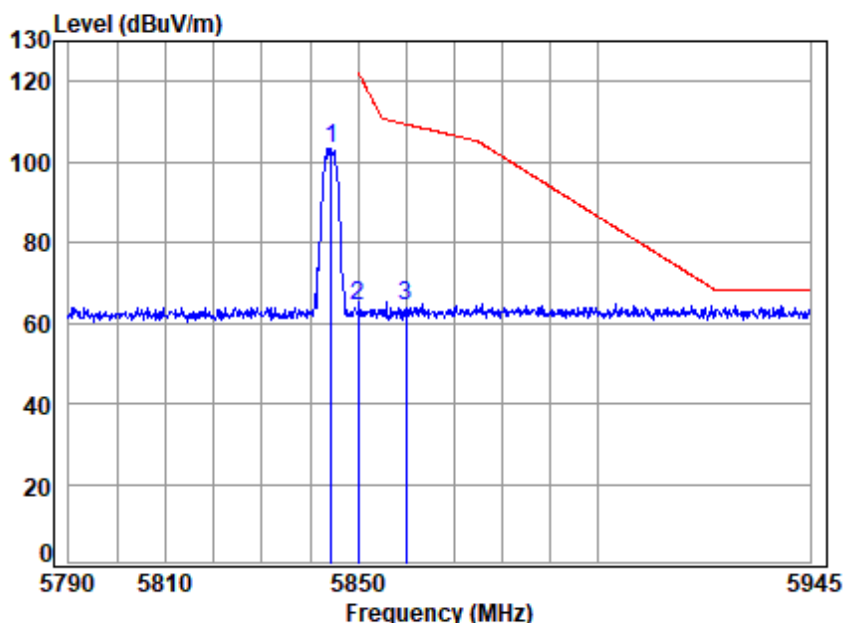
Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5844.5 Band edge
: 3M

		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	5844.500	8.24	34.95	42.39	114.21	115.01	-----	-----	peak
2	5850.000	8.24	34.95	42.39	62.98	63.78	122.20	-58.42	peak
3	5860.000	8.24	34.96	42.39	63.47	64.28	109.40	-45.12	peak

Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5844.5 Band edge
: 3M

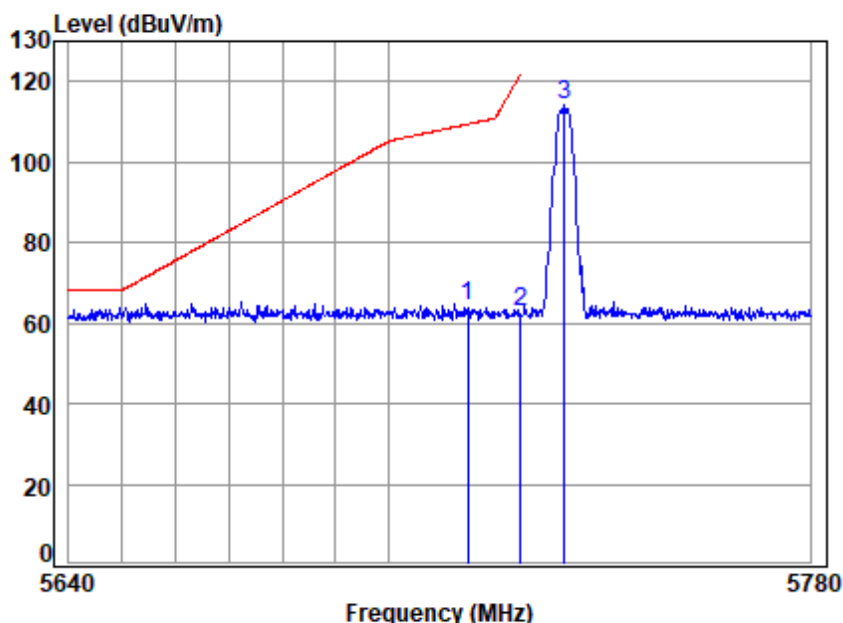
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.500	8.24	34.95	42.39	102.72	103.52	-----	----- peak
2	5850.000	8.24	34.95	42.39	63.55	64.35	122.20	-57.85 peak
3	5860.000	8.24	34.96	42.39	63.53	64.34	109.40	-45.06 peak



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Test Mode: 10; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5733.2 Band edge
: 3M CA

		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 5715.000	8.22	34.82	42.37	63.49	64.16	109.40	-45.24	peak
2 5725.000	8.22	34.83	42.37	62.28	62.96	122.20	-59.24	peak
3 5733.200	8.22	34.84	42.38	113.34	114.02	-----	-----	peak



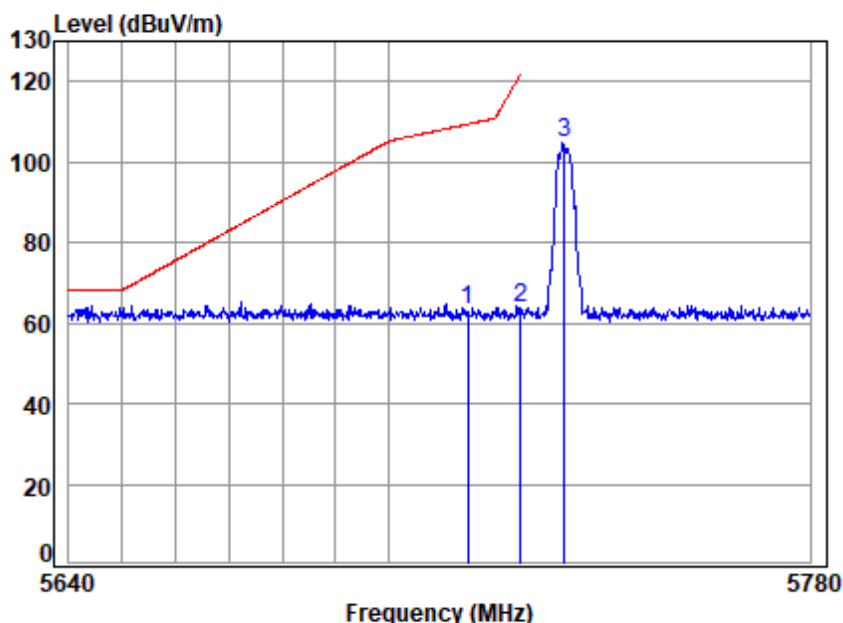
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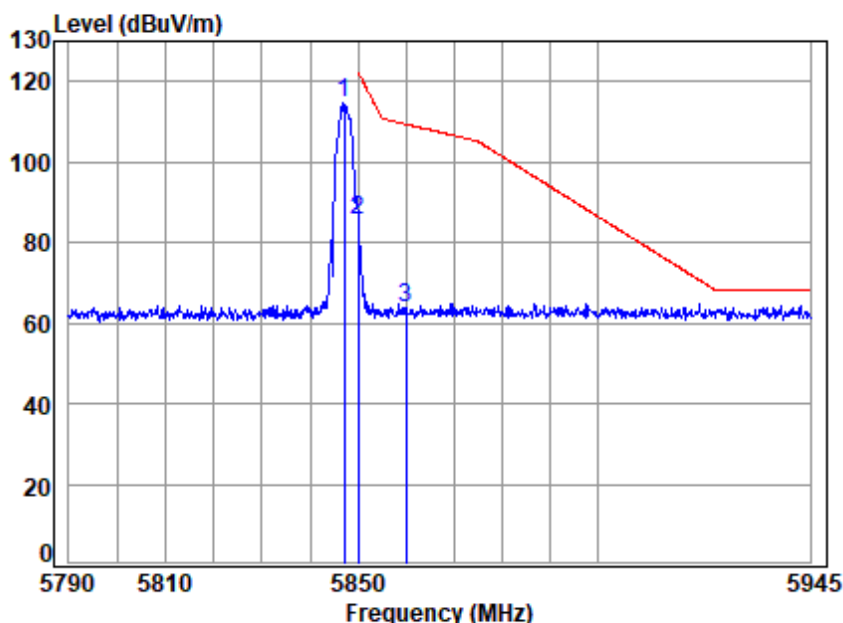
Test Mode: 10; Polarity: Vertical; Modulation:OFDM; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5733.2 Band edge
: 3M CA

		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	5715.000	8.22	34.82	42.37	62.53	63.20	109.40	-46.20 peak
2	5725.000	8.22	34.83	42.37	63.17	63.85	122.20	-58.35 peak
3	5733.200	8.22	34.84	42.38	104.15	104.83	-----	----- peak

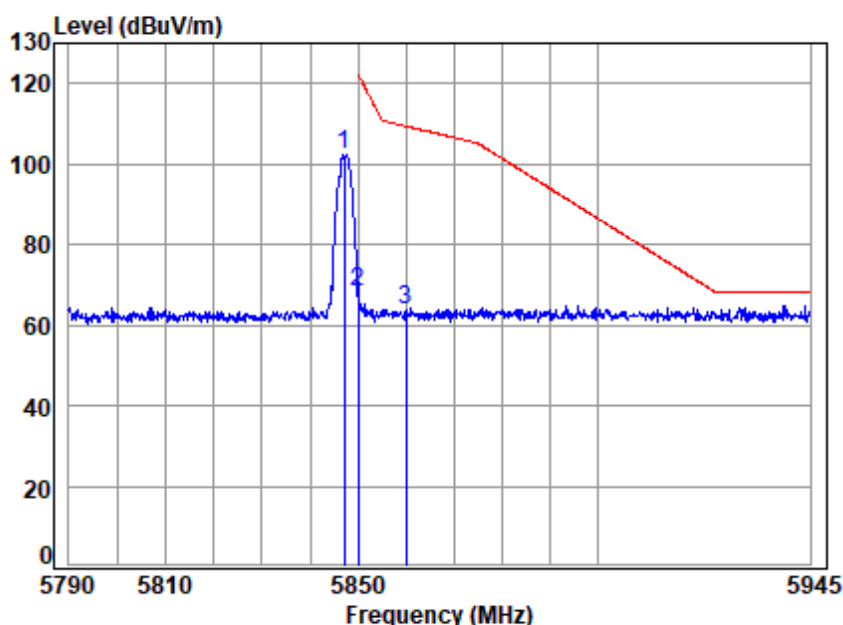
Test Mode: 10; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5847.2 Band edge
: 3M CA

		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	5847.200	8.24	34.95	42.39	113.81	114.61	-----	-----	peak
2	5850.000	8.24	34.95	42.39	84.72	85.52	122.20	-36.68	peak
3	5860.000	8.24	34.96	42.39	63.08	63.89	109.40	-45.51	peak

Test Mode: 10; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5847.2 Band edge
: 3M CA

		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	5847.200	8.24	34.95	42.39	101.70	102.50	-----	-----	peak
2	5850.000	8.24	34.95	42.39	67.28	68.08	122.20	-54.12	peak
3	5860.000	8.24	34.96	42.39	62.93	63.74	109.40	-45.66	peak



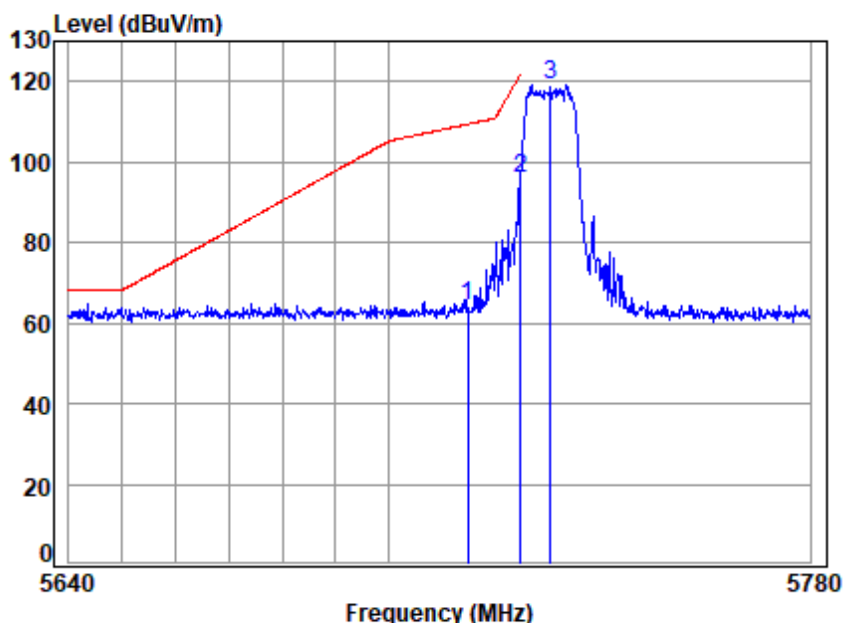
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Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5730.5 Band edge
: 10M

		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	5715.000	8.22	34.82	42.37	63.73	64.40	109.40	-45.00 peak
2	5725.000	8.22	34.83	42.37	95.14	95.82	122.20	-26.38 peak
3	5730.500	8.22	34.84	42.37	118.33	119.02	-----	----- peak

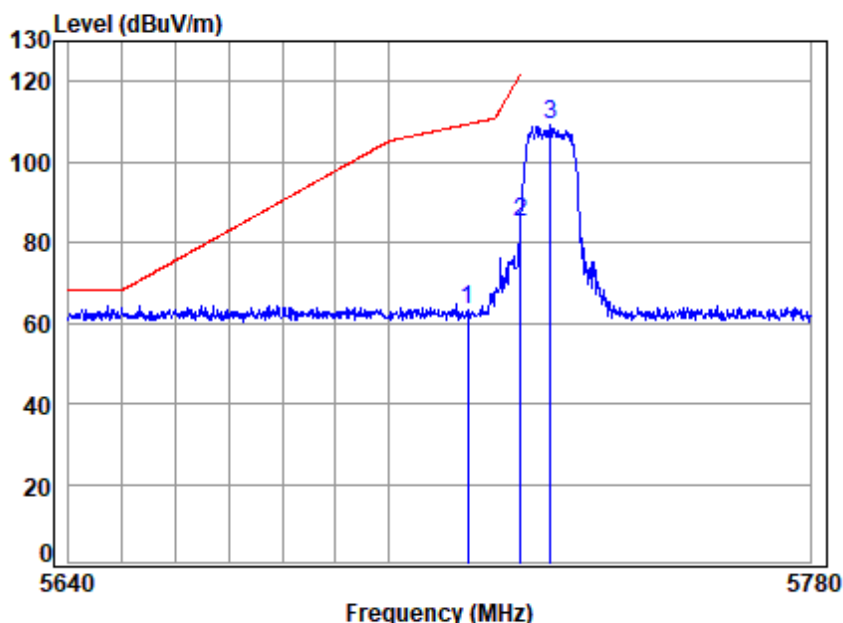


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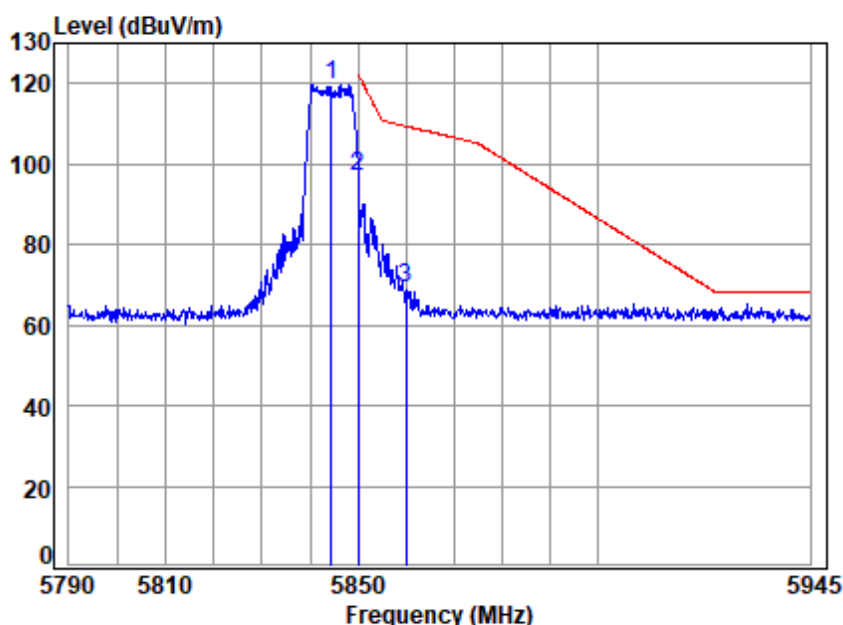
Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5730.5 Band edge
: 10M

		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	5715.000	8.22	34.82	42.37	62.42	63.09	109.40	-46.31 peak
2	5725.000	8.22	34.83	42.37	84.12	84.80	122.20	-37.40 peak
3	5730.500	8.22	34.84	42.37	108.31	109.00	-----	----- peak

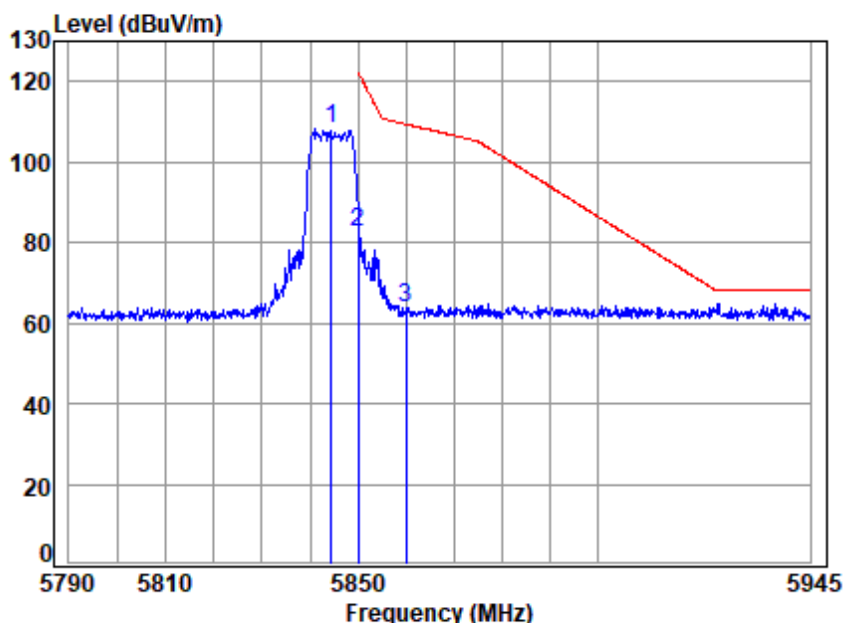
Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5844.5 Band edge
: 10M

	Freq	Cable	Ant	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.500	8.24	34.95	42.39	118.87	119.67	-----	----- peak
2	5850.000	8.24	34.95	42.39	95.97	96.77	122.20	-25.43 peak
3	5860.000	8.24	34.96	42.39	68.63	69.44	109.40	-39.96 peak

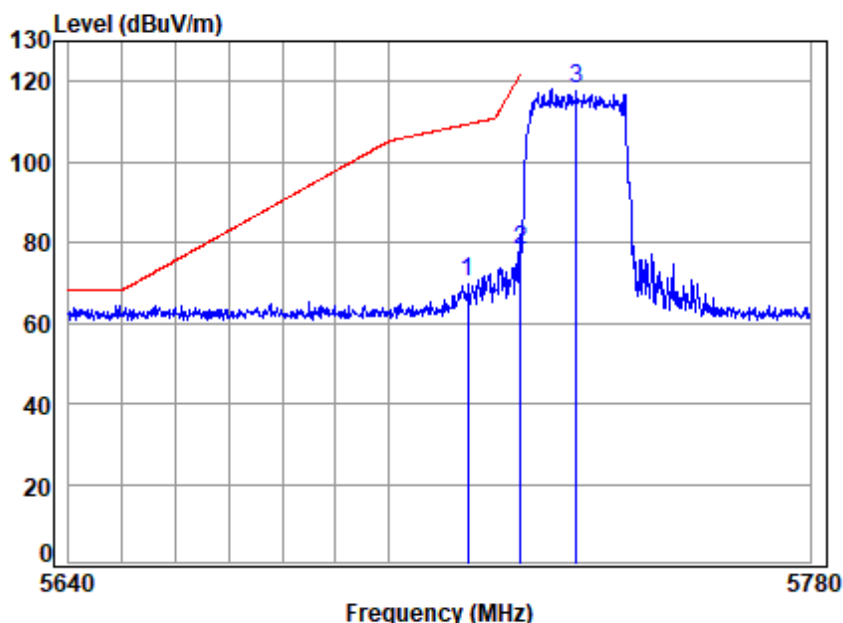
Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5844.5 Band edge
: 10M

		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	5844.500	8.24	34.95	42.39	107.64	108.44	-----	-----	peak
2	5850.000	8.24	34.95	42.39	81.89	82.69	122.20	-39.51	peak
3	5860.000	8.24	34.96	42.39	62.89	63.70	109.40	-45.70	peak

Test Mode: 12; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5735.5 Band edge
: 20M

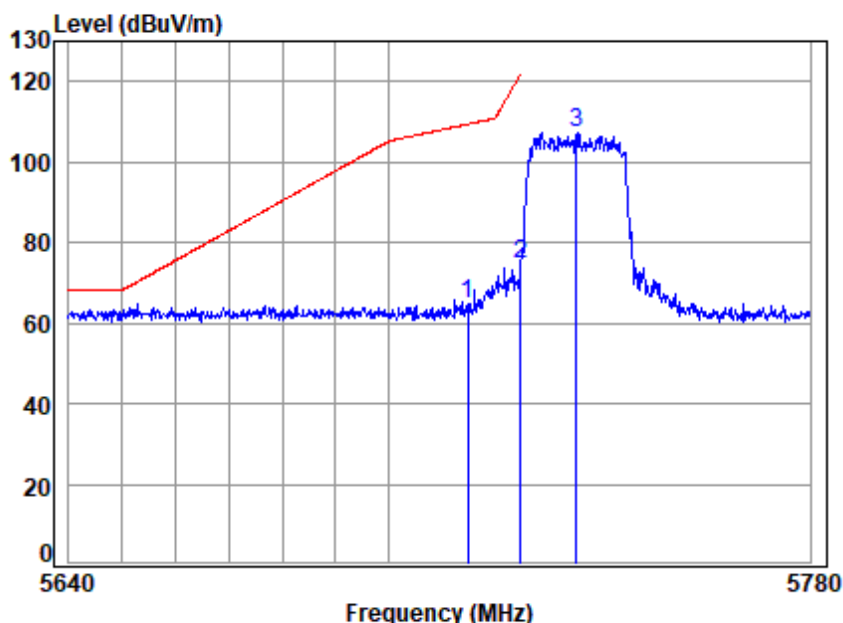
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5715.000	8.22	34.82	42.37	69.37	70.04	109.40	-39.36	peak
2 5725.000	8.22	34.83	42.37	77.51	78.19	122.20	-44.01	peak
3 5735.500	8.22	34.84	42.38	117.42	118.10	-----	-----	peak



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Test Mode: 12; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5735.5 Band edge
: 20M

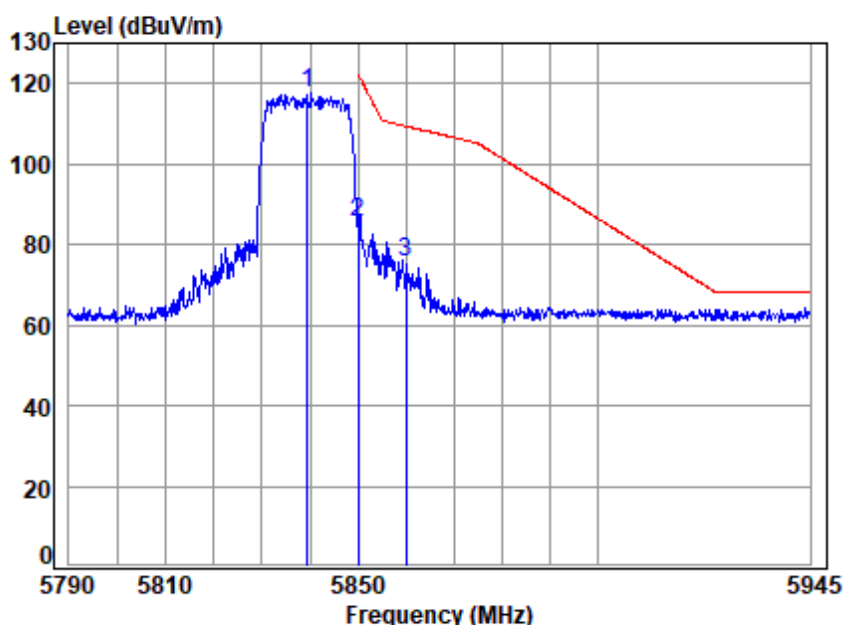
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	8.22	34.82	42.37	64.17	64.84	109.40	-44.56 peak
2	5725.000	8.22	34.83	42.37	74.01	74.69	122.20	-47.51 peak
3	5735.500	8.22	34.84	42.38	106.78	107.46	-----	----- peak



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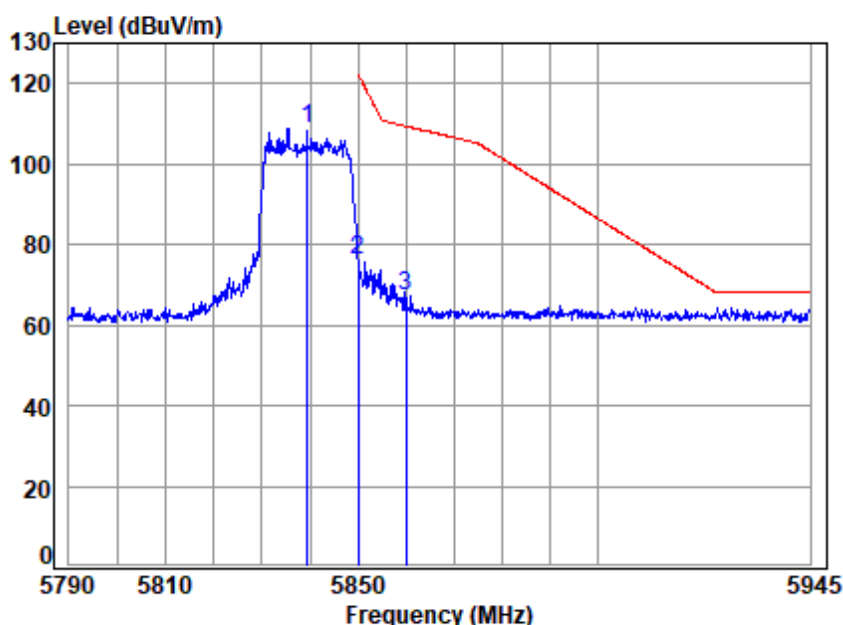
Test Mode: 12; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5839.5 Band edge
: 20M

		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	5839.500	8.24	34.94	42.39	116.80	117.59	-----	-----	peak
2	5850.000	8.24	34.95	42.39	84.86	85.66	122.20	-36.54	peak
3	5860.000	8.24	34.96	42.39	74.59	75.40	109.40	-34.00	peak

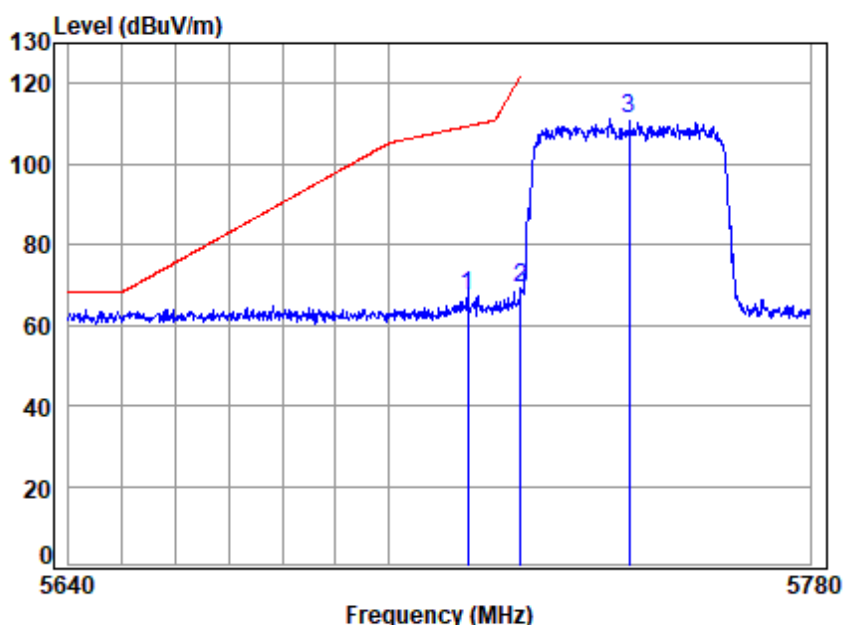
Test Mode: 12; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 11220CR\11219CR
 Mode : 5839.5 Band edge
 : 20M

		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	5839.500	8.24	34.94	42.39	107.86	108.65	-----	-----	peak
2	5850.000	8.24	34.95	42.39	75.37	76.17	122.20	-46.03	peak
3	5860.000	8.24	34.96	42.39	66.54	67.35	109.40	-42.05	peak

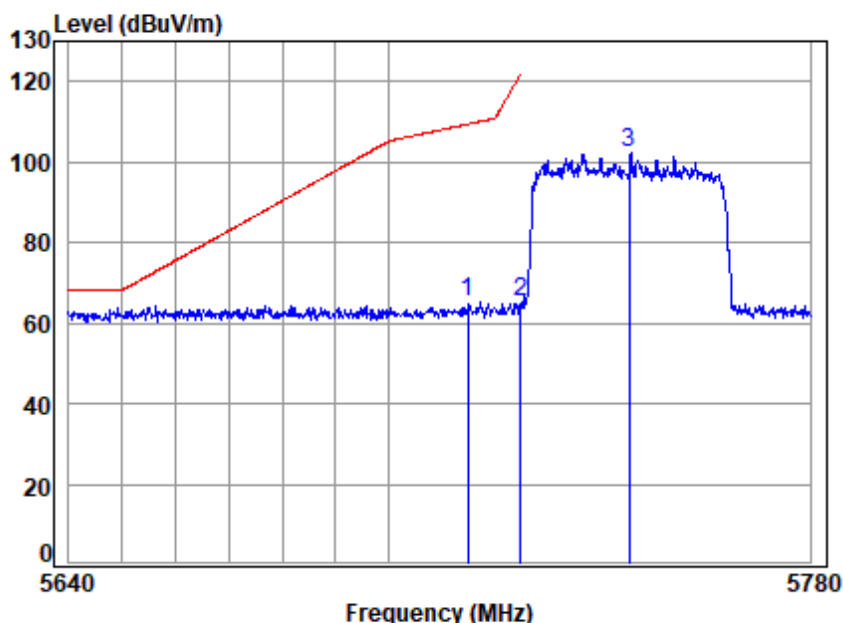
Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5745.5 Band edge
: 40M

		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	5715.000	8.22	34.82	42.37	66.76	67.43	109.40	-41.97 peak
2	5725.000	8.22	34.83	42.37	68.30	68.98	122.20	-53.22 peak
3	5745.500	8.22	34.85	42.38	110.36	111.05	-----	----- peak

Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5745.5 Band edge
: 40M

		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	5715.000	8.22	34.82	42.37	64.54	65.21	109.40	-44.19 peak
2	5725.000	8.22	34.83	42.37	64.59	65.27	122.20	-56.93 peak
3	5745.500	8.22	34.85	42.38	101.55	102.24	-----	----- peak



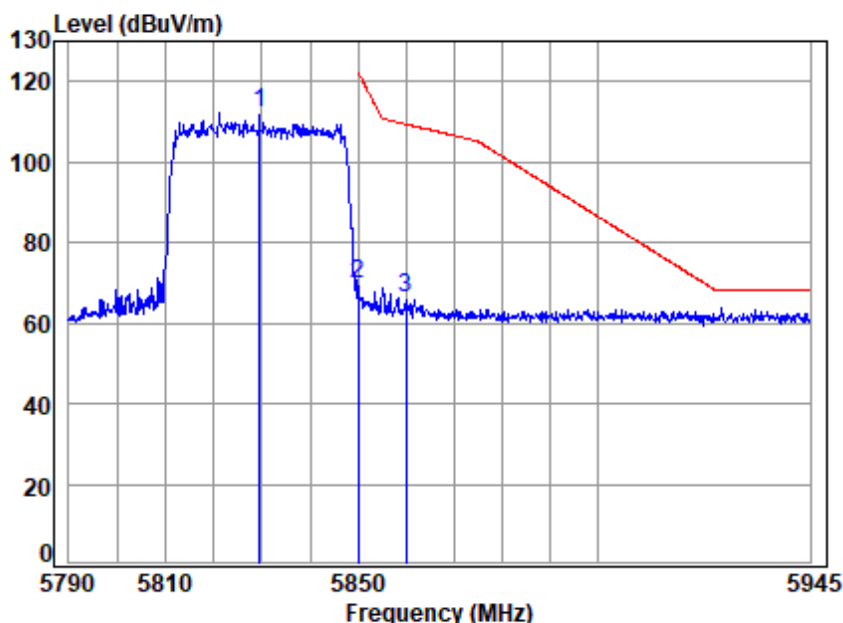
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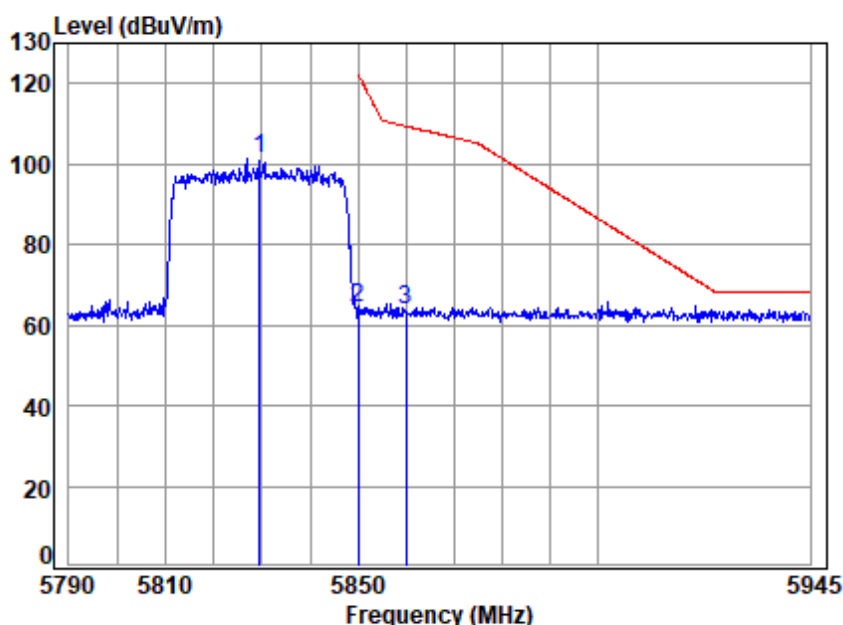
Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11220CR\11219CR
Mode : 5829.5 Band edge
: 40M

		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	5829.500	8.23	34.93	42.38	111.41	112.19	-----	-----	peak
2	5850.000	8.24	34.95	42.39	68.69	69.49	122.20	-52.71	peak
3	5860.000	8.24	34.96	42.39	65.67	66.48	109.40	-42.92	peak

Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 11220CR\11219CR
Mode : 5829.5 Band edge
: 40M

		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	5829.500	8.23	34.93	42.38	100.49	101.27	-----	-----	peak
2	5850.000	8.24	34.95	42.39	63.60	64.40	122.20	-57.80	peak
3	5860.000	8.24	34.96	42.39	63.00	63.81	109.40	-45.59	peak



7.8 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407
Test Method: ANSI C63.10 (2013) Section 6.8

7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode(5.8GHz Band-1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8GHz Band-1.4MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8GHz Band-3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	10	TX mode(5.8GHz Band-3MHz CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	11	TX mode(5.8GHz Band-10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	12	TX mode(5.8GHz Band-20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	13	TX mode(5.8GHz Band-40MHz)_Keep the EUT in continuously transmitting mode with modulation

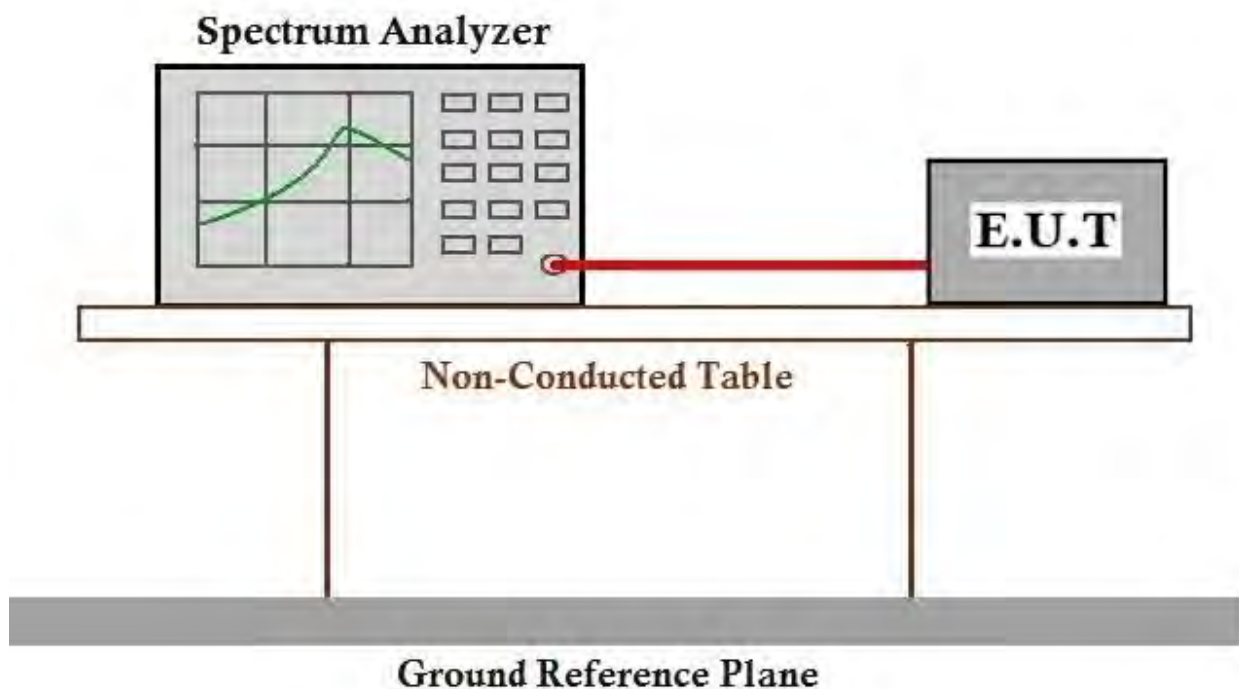


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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer To Appendix For Details



8 Test Setup Photo

Please refer to setup photos.

9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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10 Appendix

Appendix for 15.407

1.4M,1.4M CA,3M,3M CA-SISO

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
1.4M TX	5728.5	SISO	1	100.000	100.000	100.00	0.00
	5786.5	SISO	1	100.000	100.000	100.00	0.00
	5846.5	SISO	1	100.000	100.000	100.00	0.00
1.4M_CA TX	5730.12	SISO	1	100.000	100.000	100.00	0.00
	5786.12	SISO	1	100.000	100.000	100.00	0.00
	5848.12	SISO	1	100.000	100.000	100.00	0.00
3M TX	5730.5	SISO	1	100.000	100.000	100.00	0.00
	5787.5	SISO	1	100.000	100.000	100.00	0.00
	5844.5	SISO	1	100.000	100.000	100.00	0.00
3M_CA TX	5733.2	SISO	1	100.000	100.000	100.00	0.00
	5790.2	SISO	1	100.000	100.000	100.00	0.00
	5847.2	SISO	1	100.000	100.000	100.00	0.00



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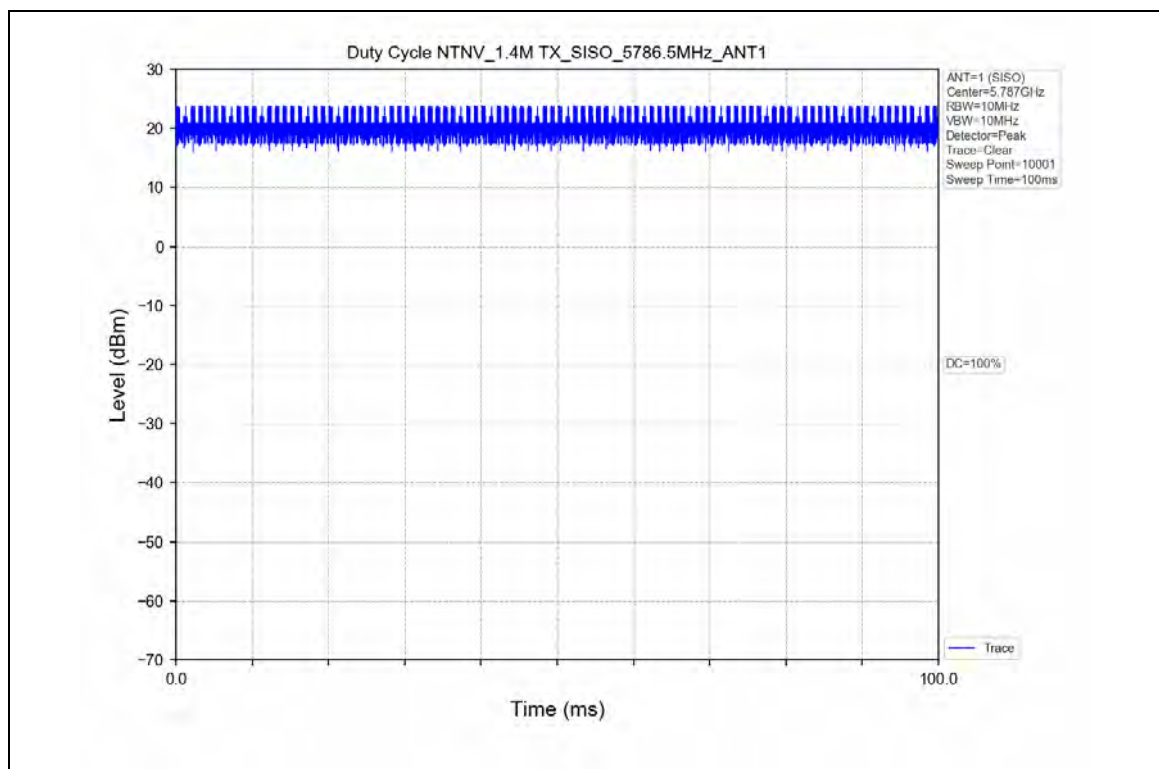
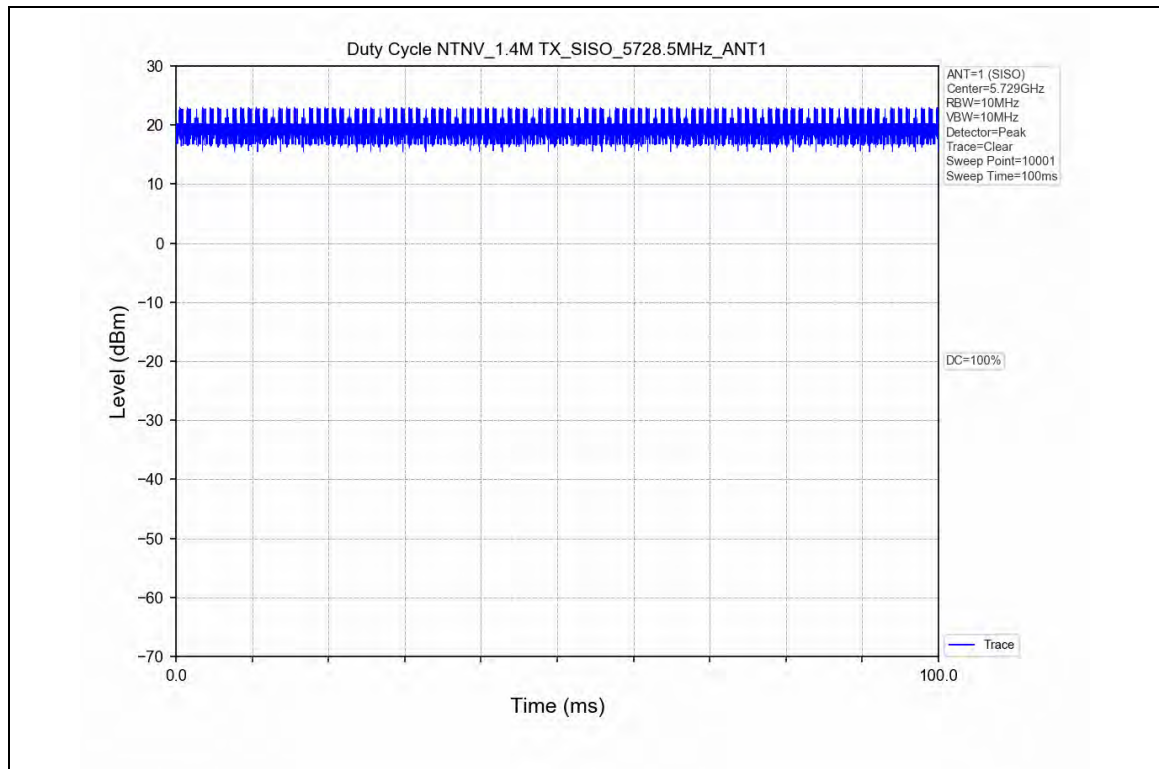
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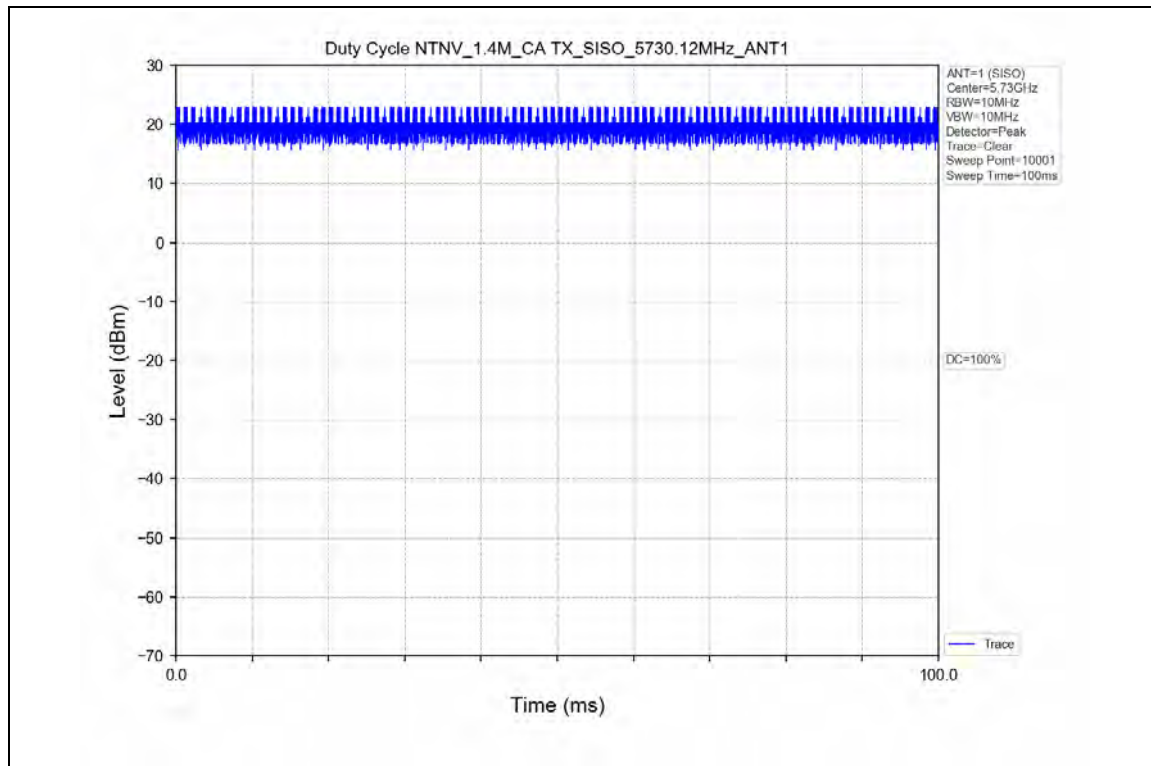
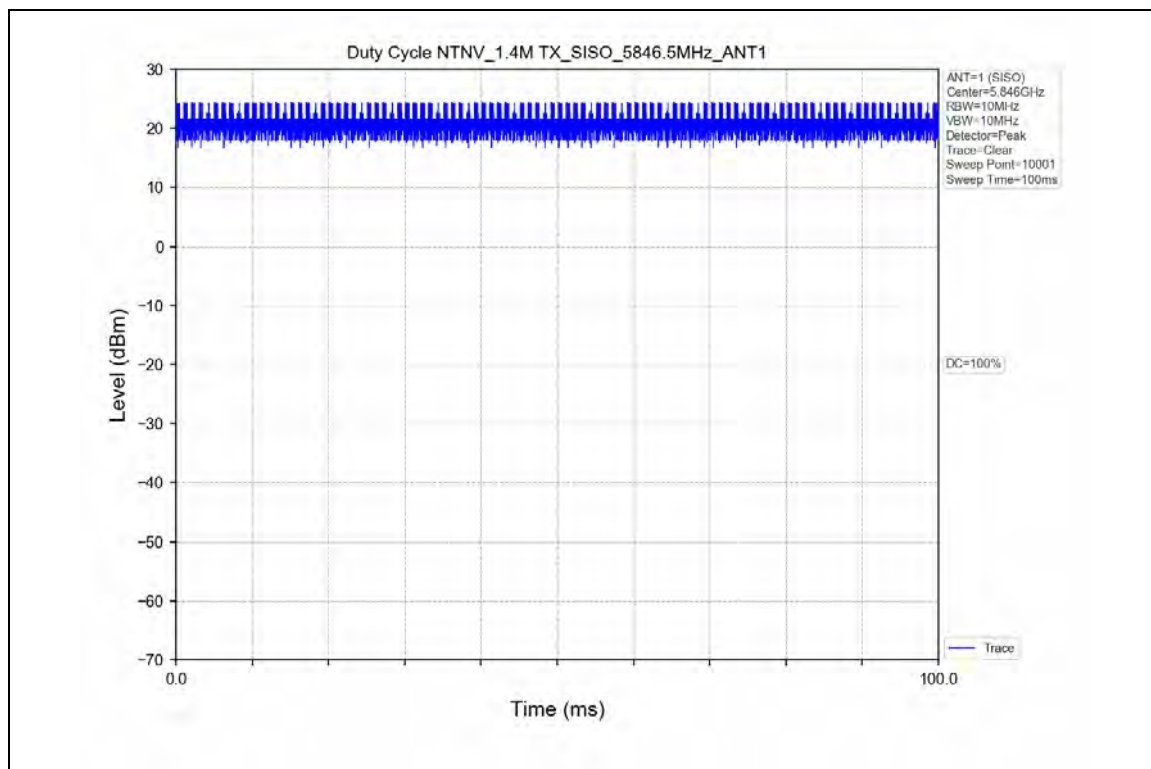
1.2 Test Graph

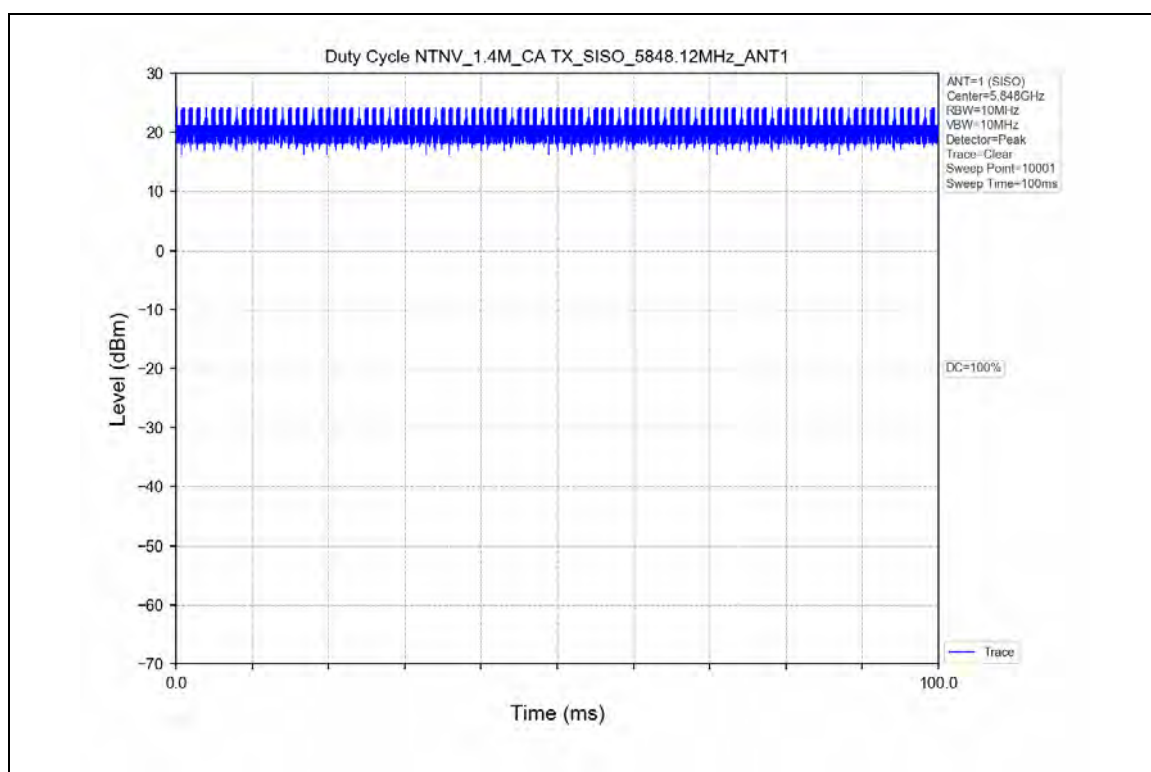
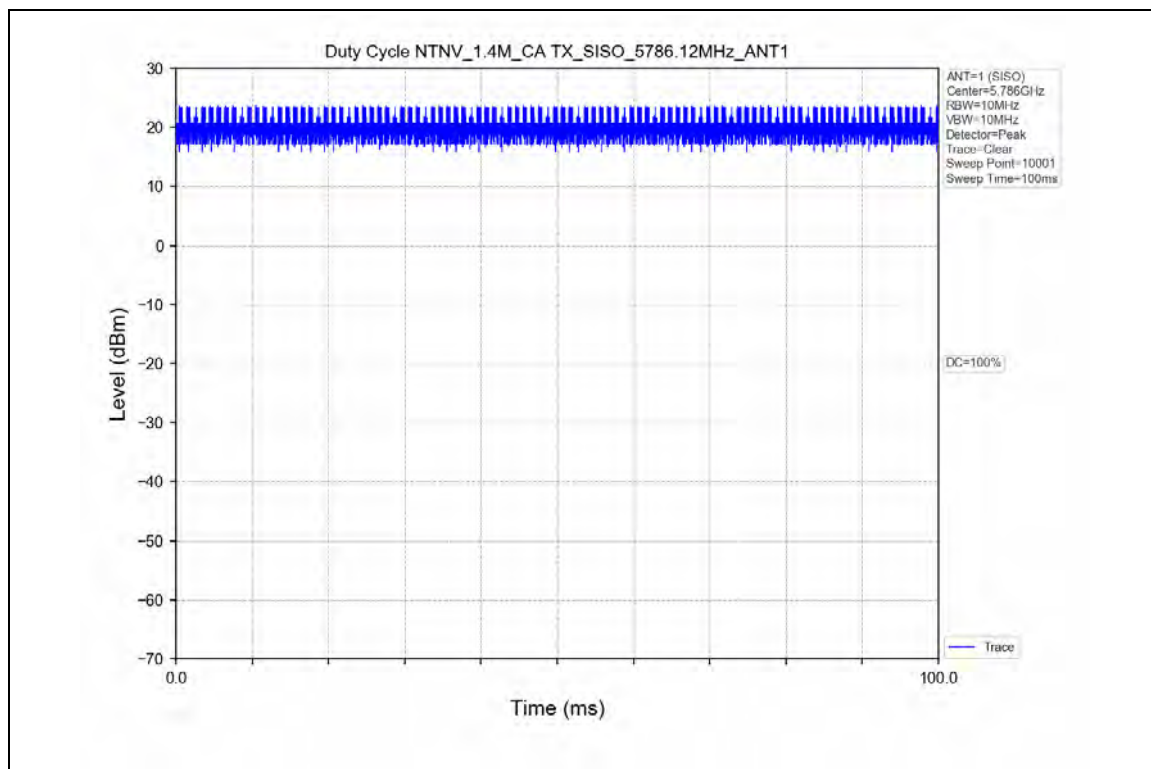


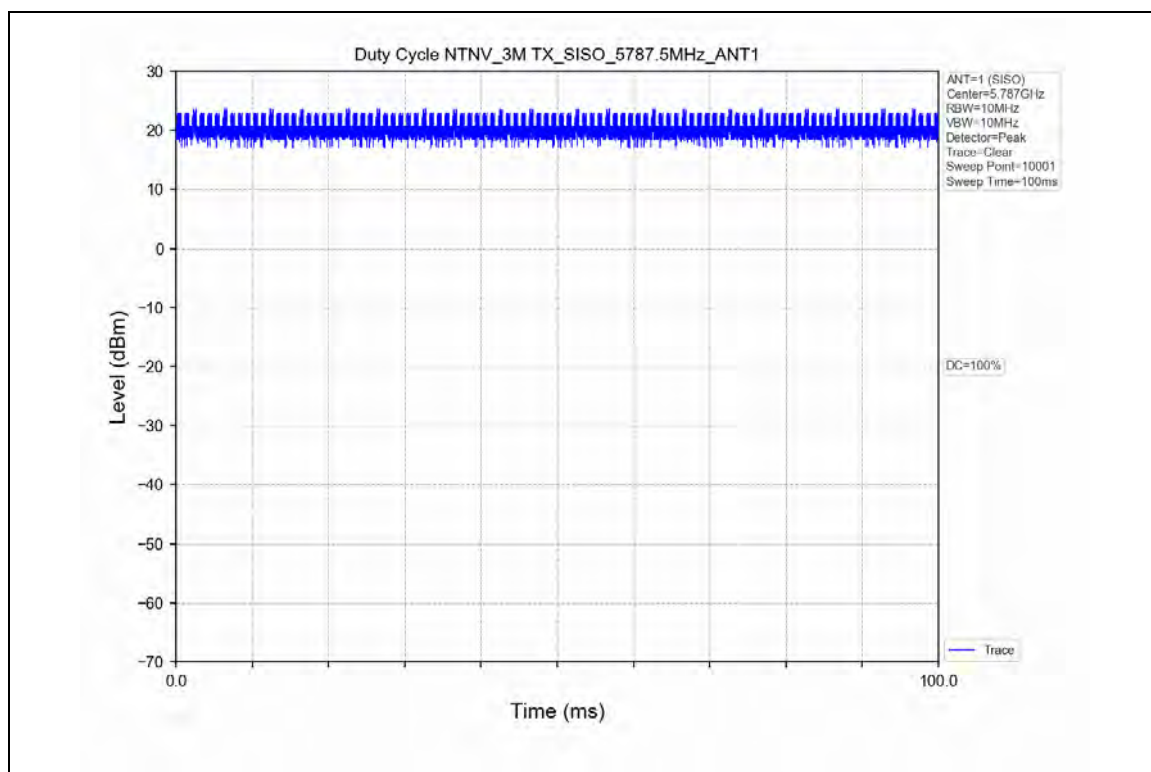
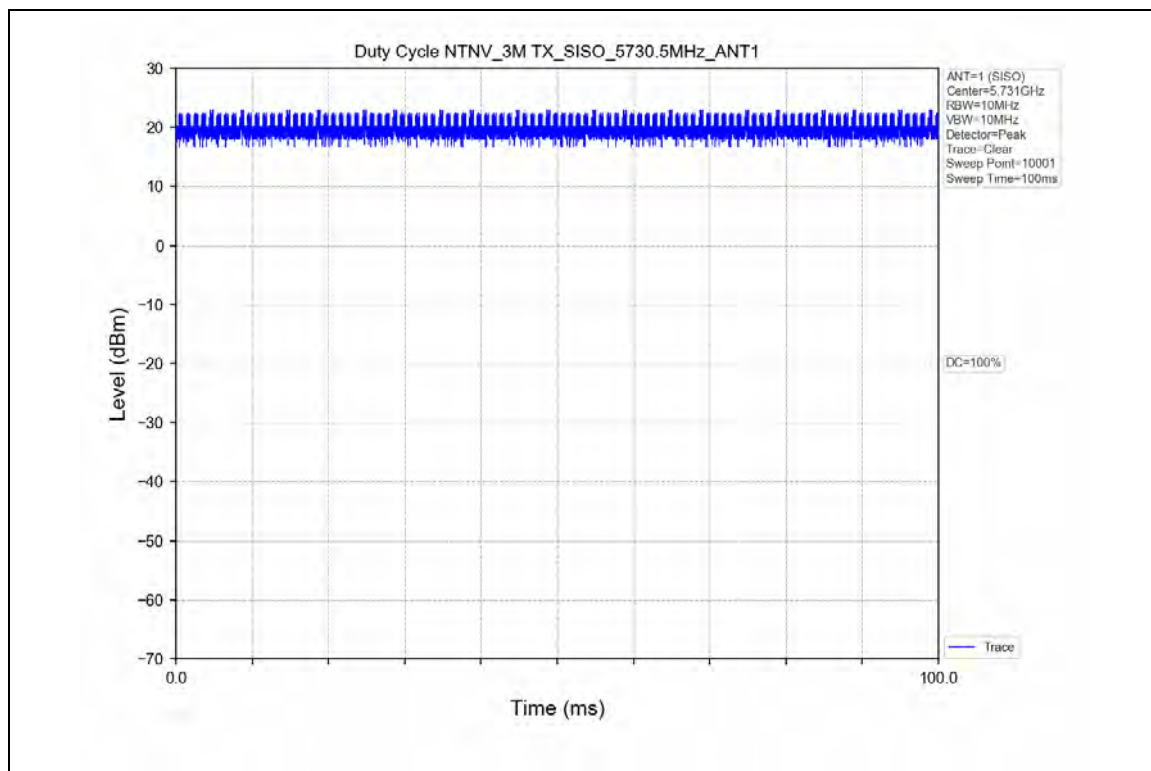
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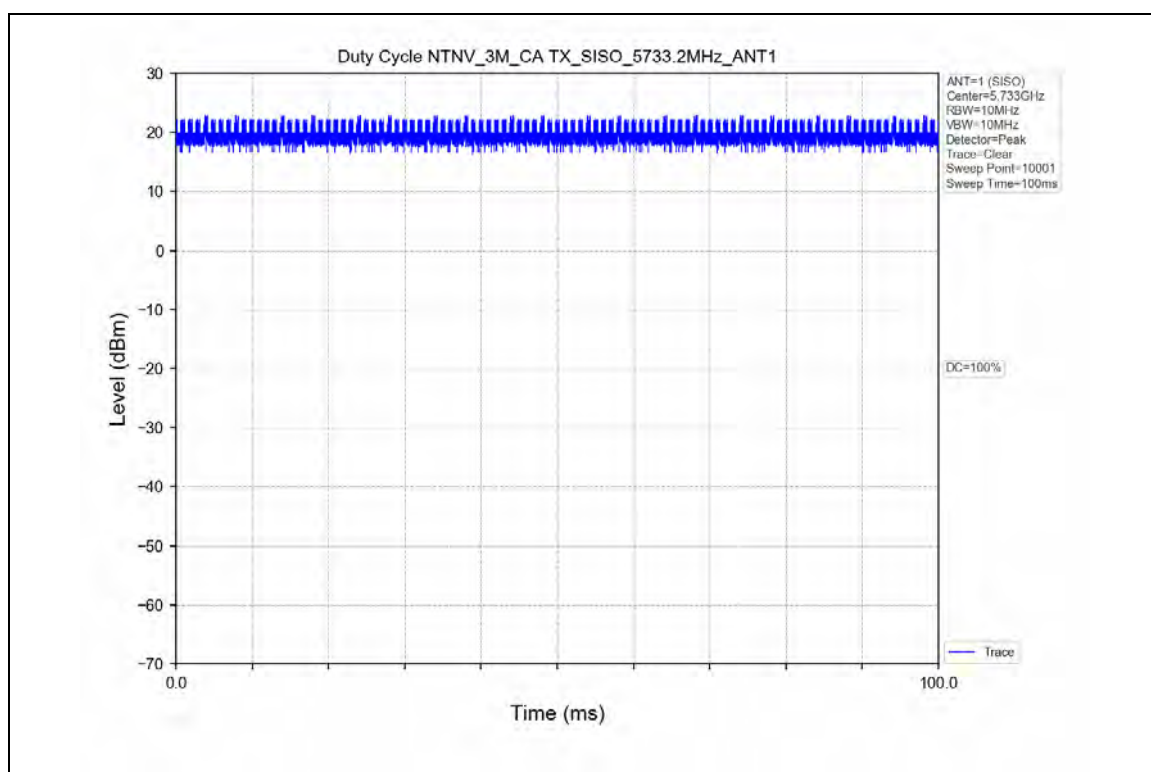
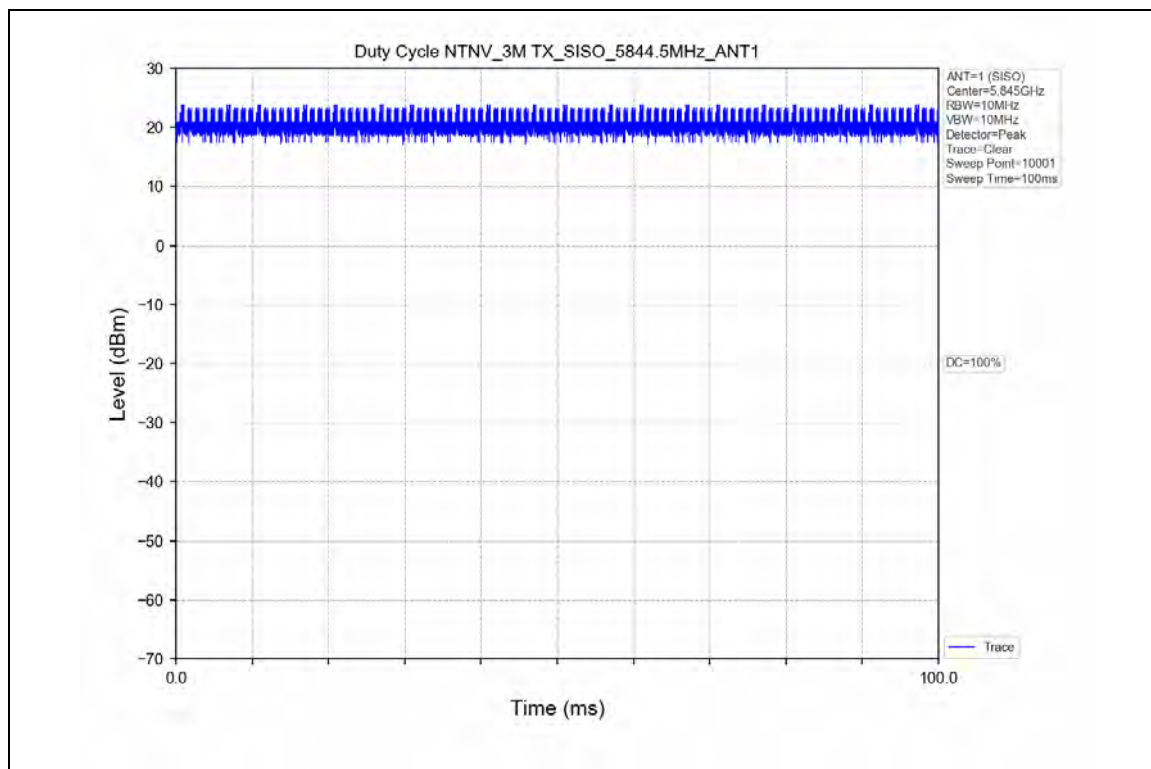
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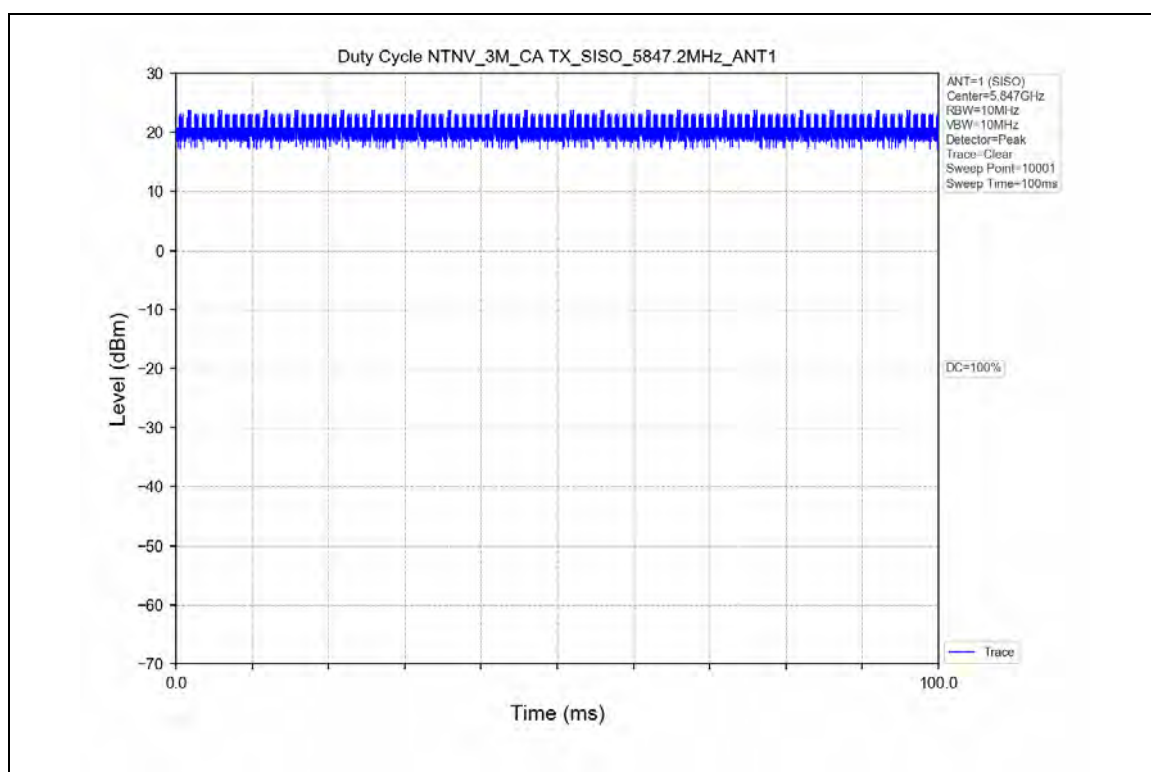
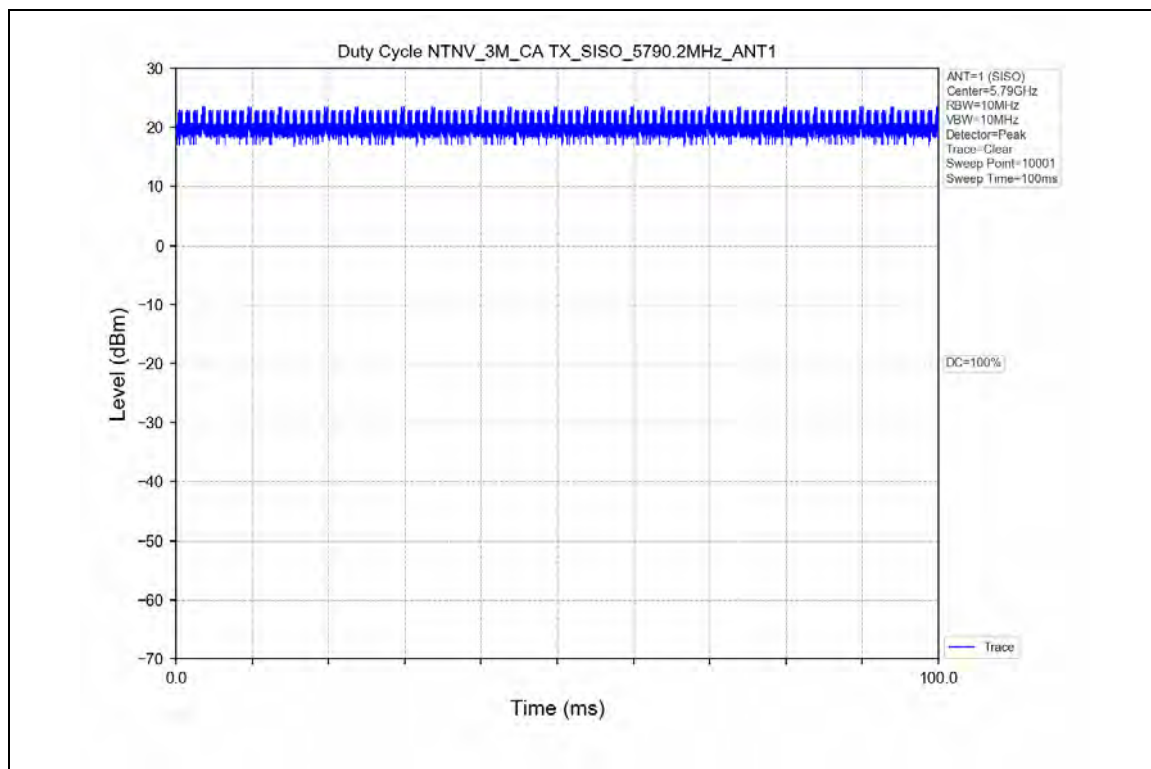
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
1.4M TX	5728.5	SISO	1	1.100	≥0.5	PASS
	5786.5	SISO	1	1.101	≥0.5	PASS
	5846.5	SISO	1	1.101	≥0.5	PASS
1.4M_CA TX	5730.12	SISO	1	1.101	≥0.5	PASS
	5786.12	SISO	1	1.102	≥0.5	PASS
	5848.12	SISO	1	1.100	≥0.5	PASS
3M TX	5730.5	SISO	1	2.191	≥0.5	PASS
	5787.5	SISO	1	2.190	≥0.5	PASS
	5844.5	SISO	1	2.191	≥0.5	PASS
3M_CA TX	5733.2	SISO	1	2.188	≥0.5	PASS
	5790.2	SISO	1	2.191	≥0.5	PASS
	5847.2	SISO	1	2.191	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
1.4M TX	5728.5	SISO	1	1.359	Only for Report Use
	5786.5	SISO	1	1.356	Only for Report Use
	5846.5	SISO	1	1.355	Only for Report Use
1.4M_CA TX	5730.12	SISO	1	1.362	Only for Report Use
	5786.12	SISO	1	1.357	Only for Report Use
	5848.12	SISO	1	1.346	Only for Report Use
3M TX	5730.5	SISO	1	2.393	Only for Report Use
	5787.5	SISO	1	2.389	Only for Report Use
	5844.5	SISO	1	2.390	Only for Report Use
3M_CA TX	5733.2	SISO	1	2.405	Only for Report Use
	5790.2	SISO	1	2.381	Only for Report Use
	5847.2	SISO	1	2.388	Only for Report Use



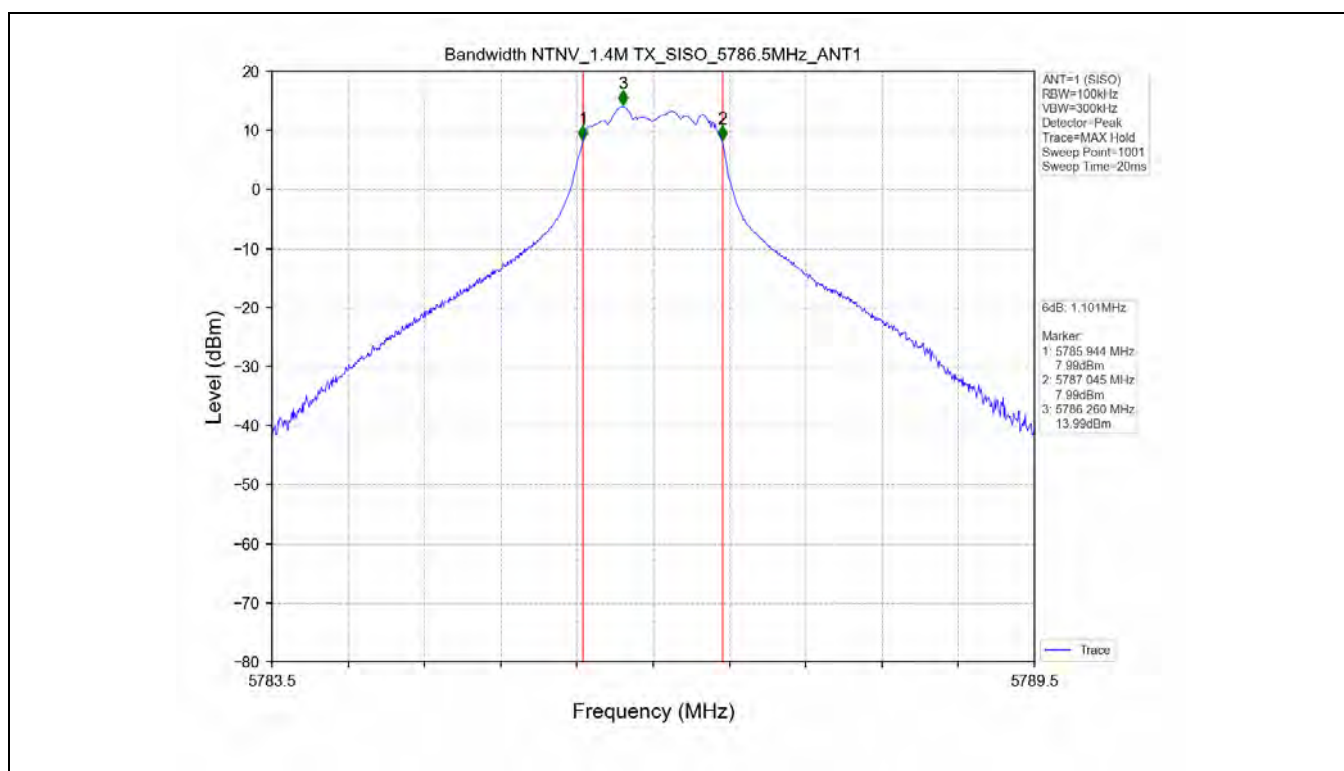
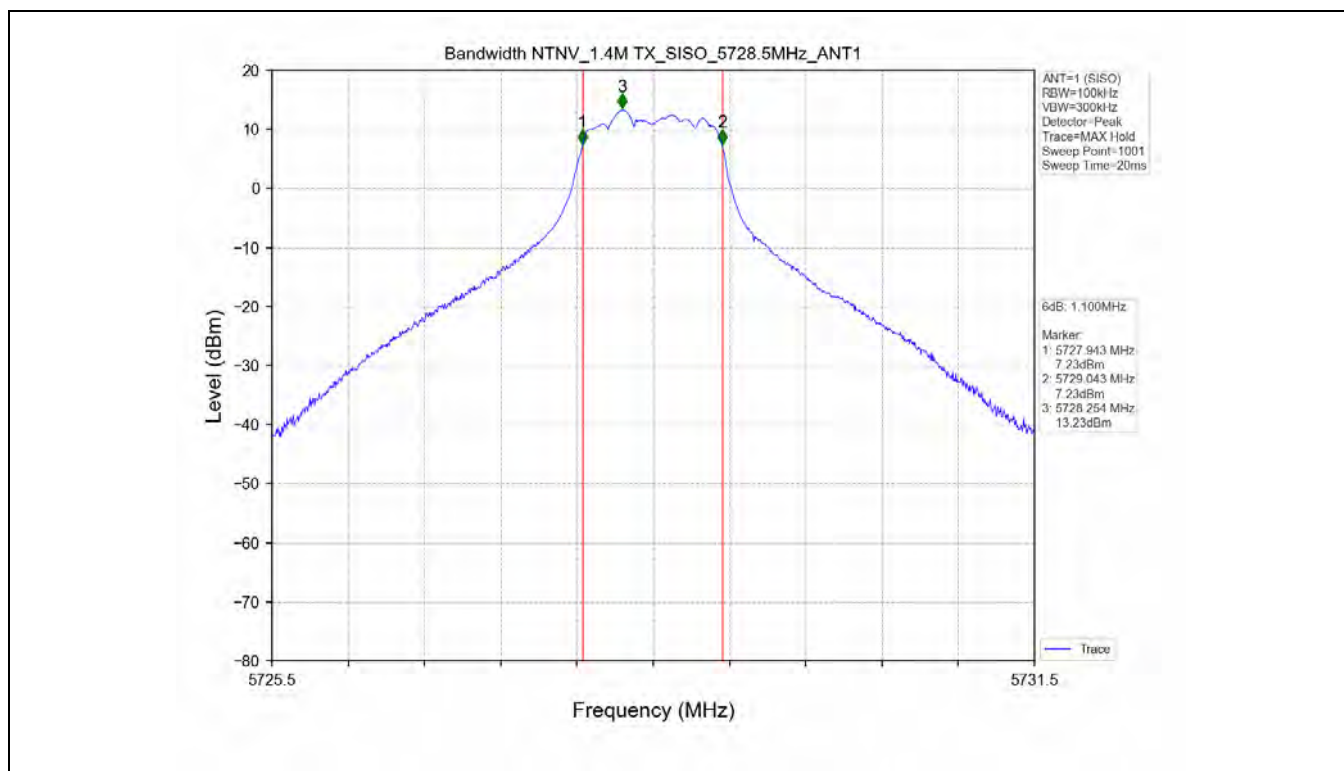
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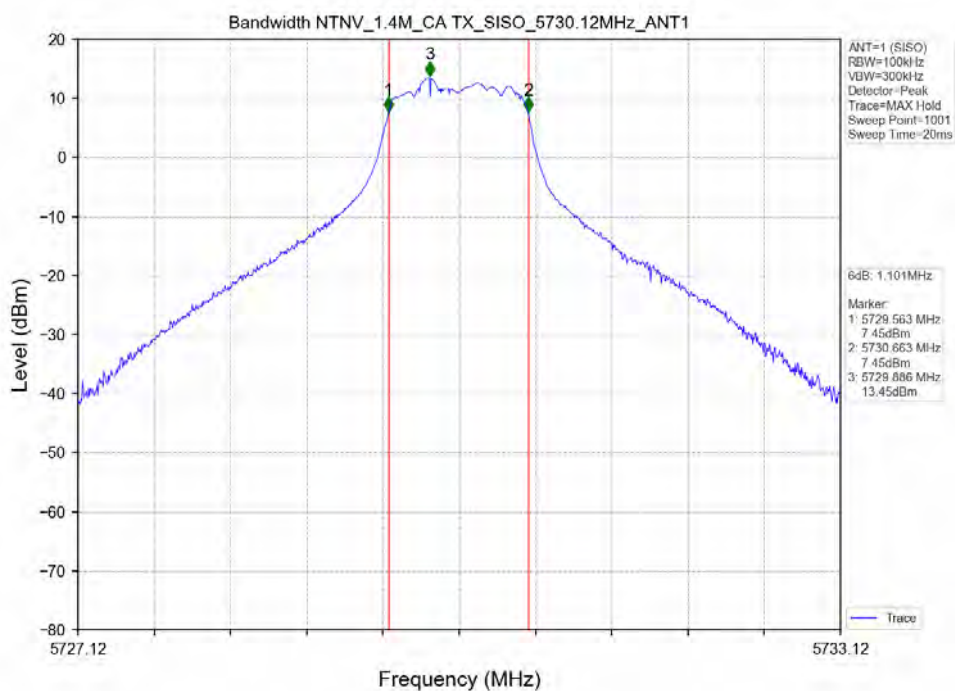
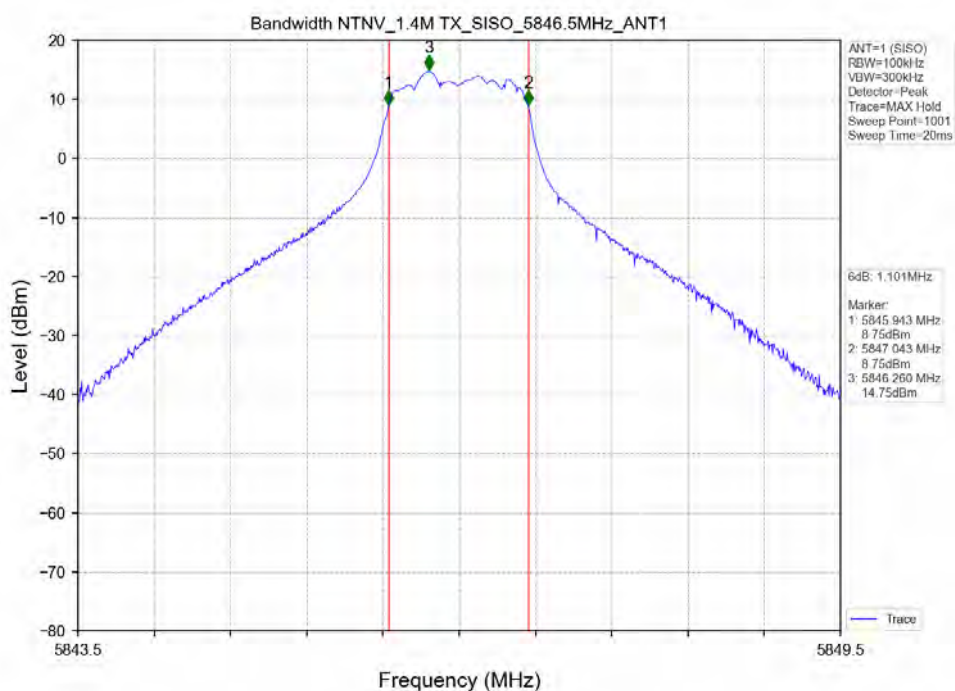
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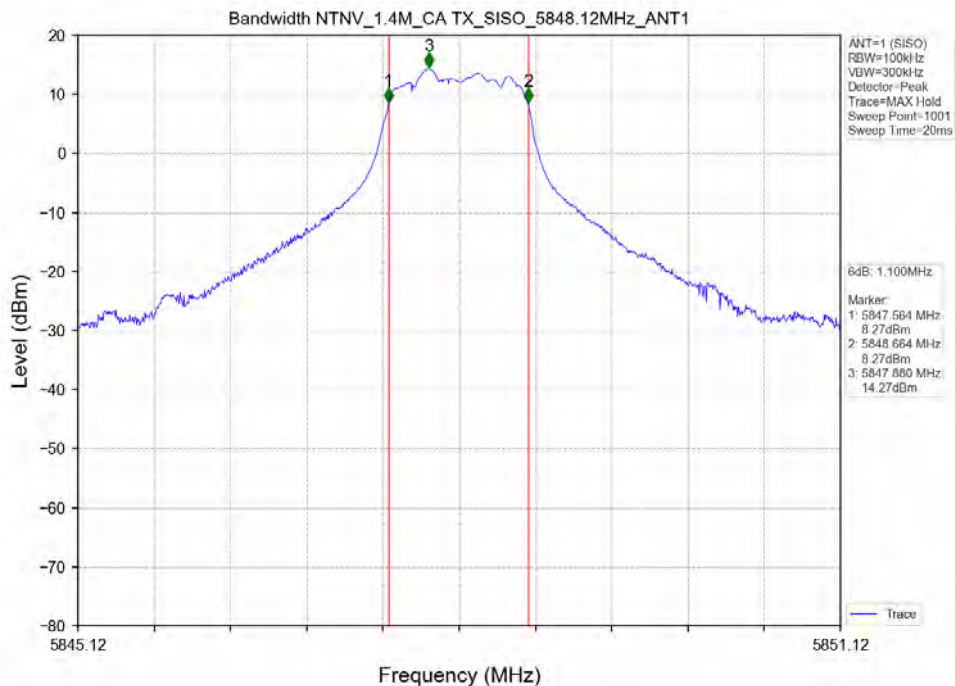
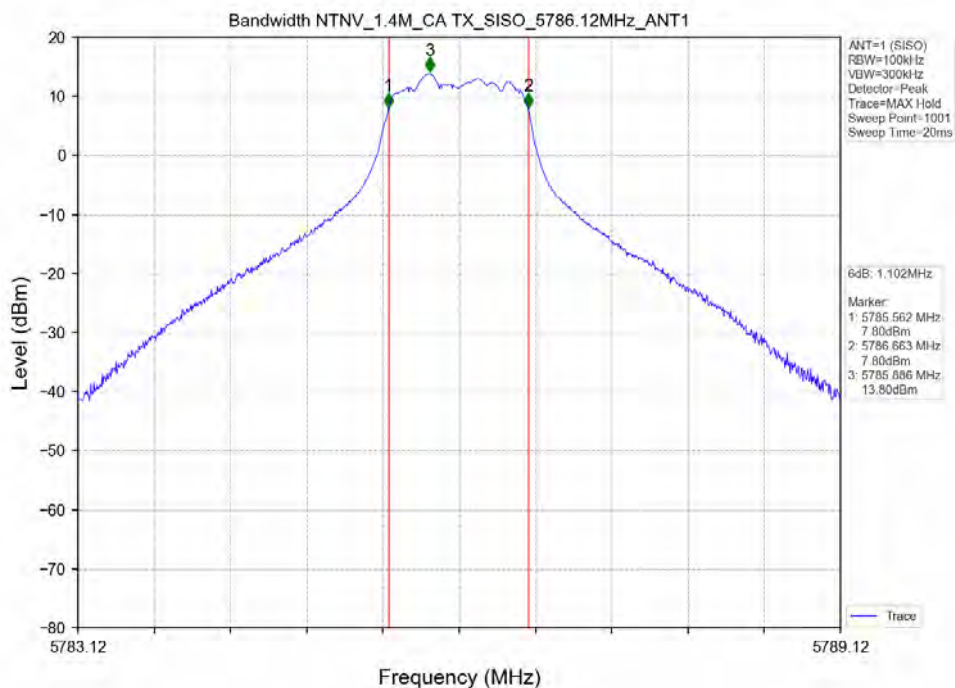
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Shenzhen Branch Laboratory

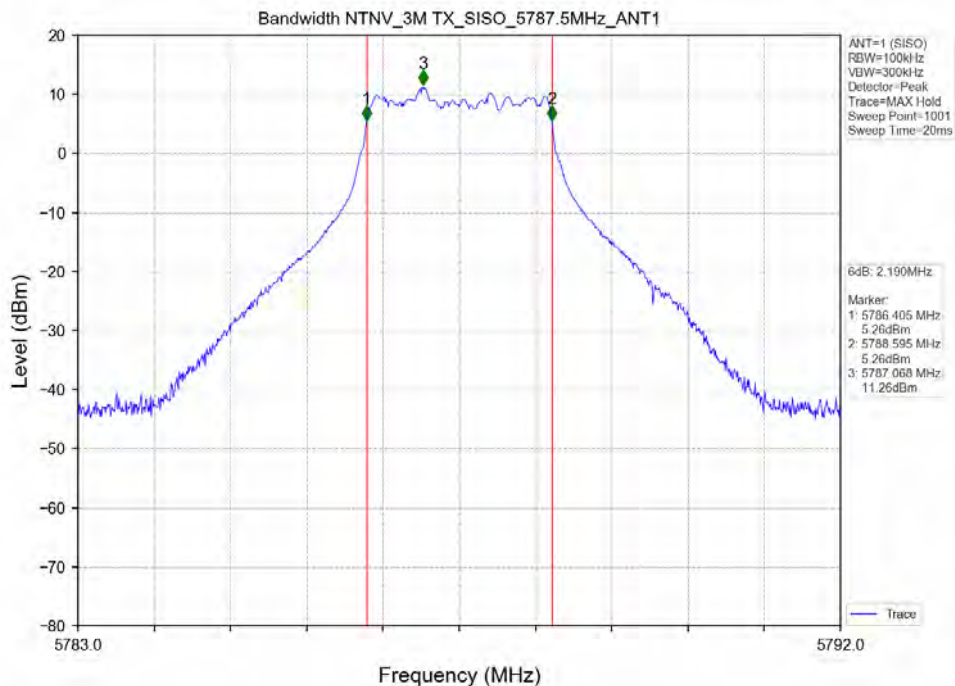
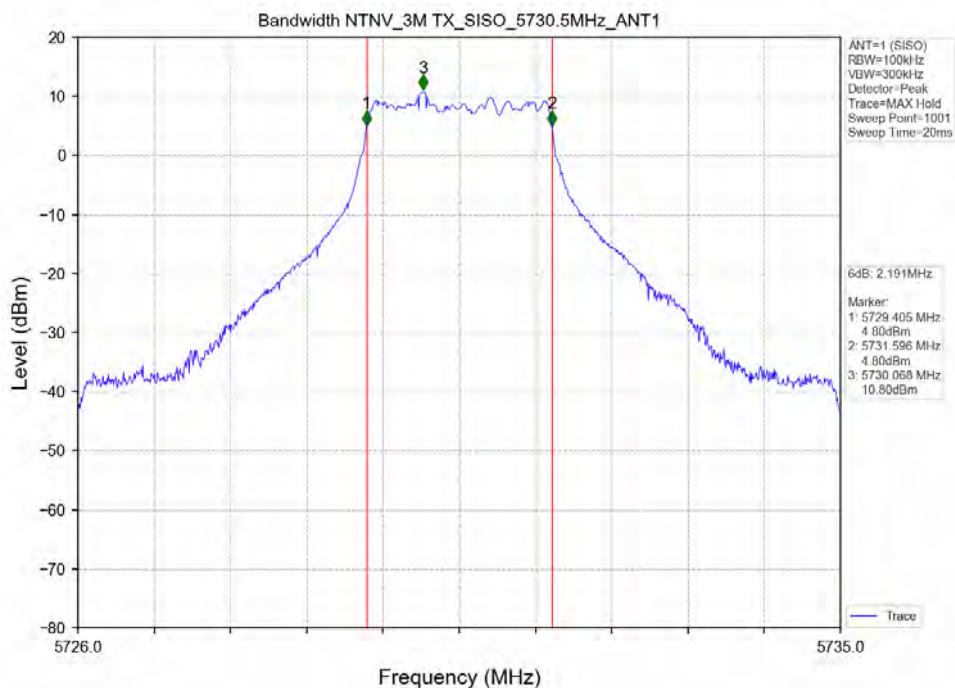
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

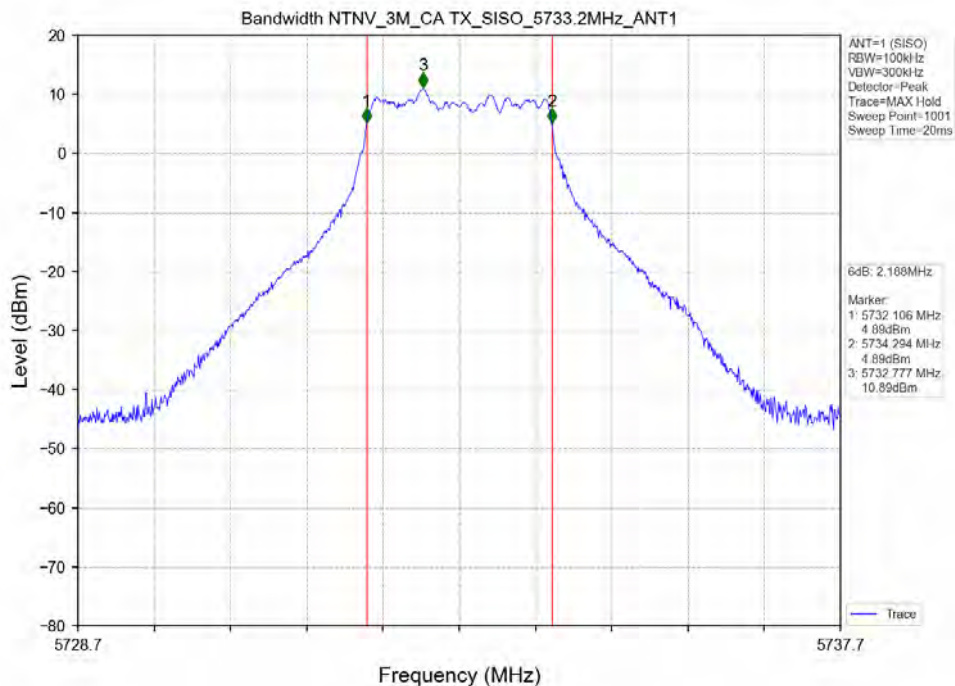
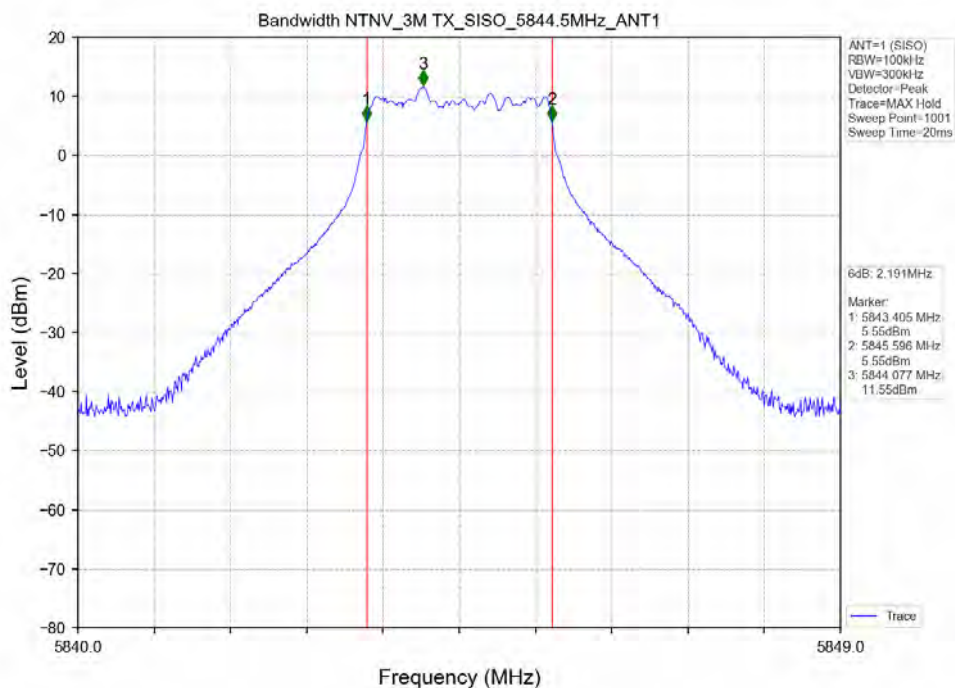
2.2 Test Graph - Emission Bandwidth

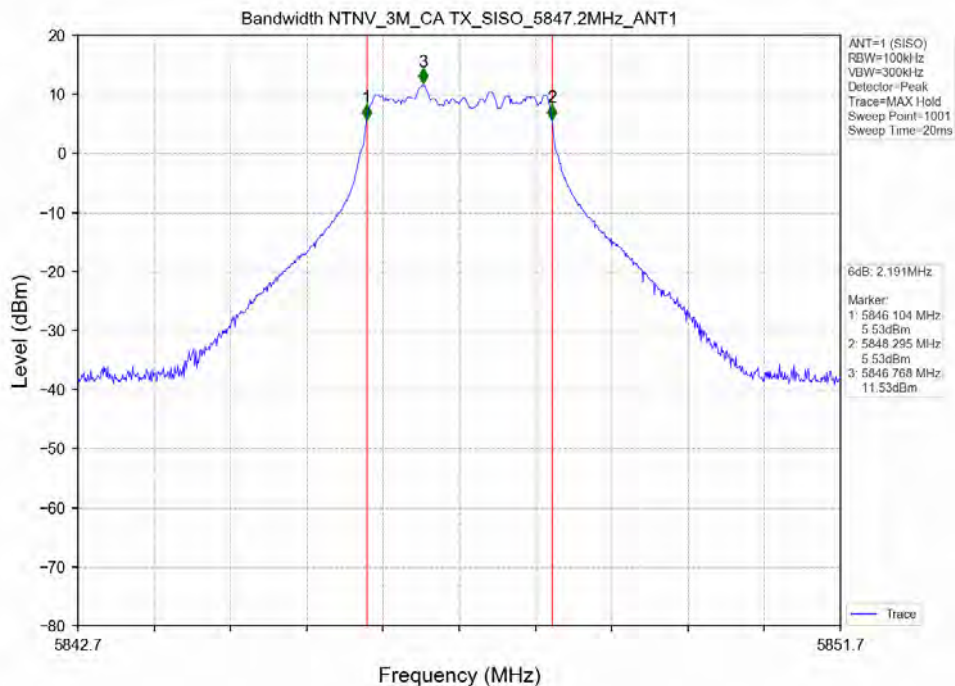
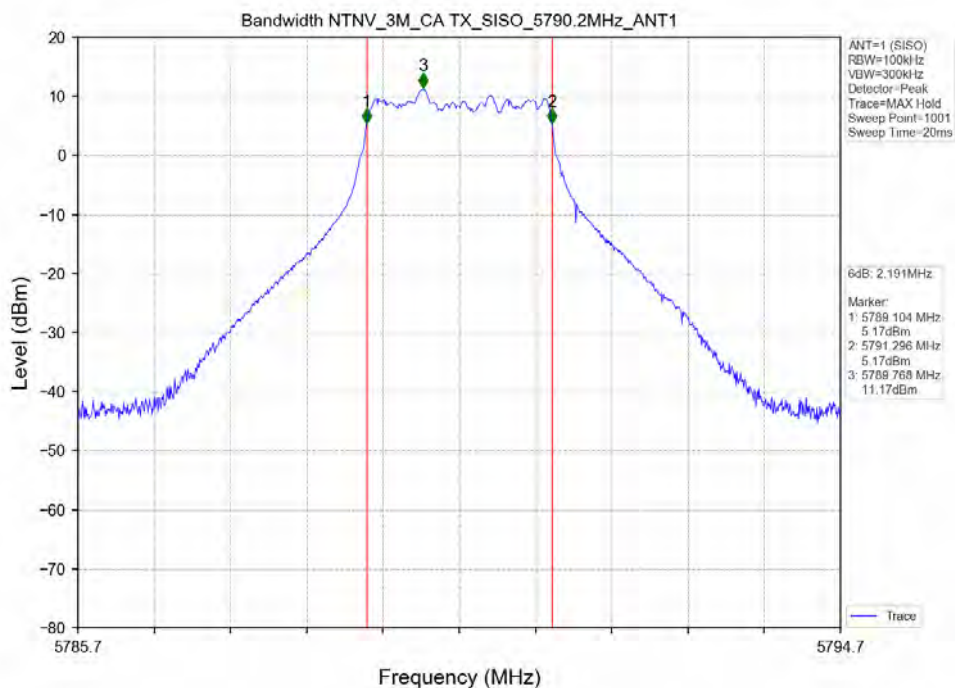




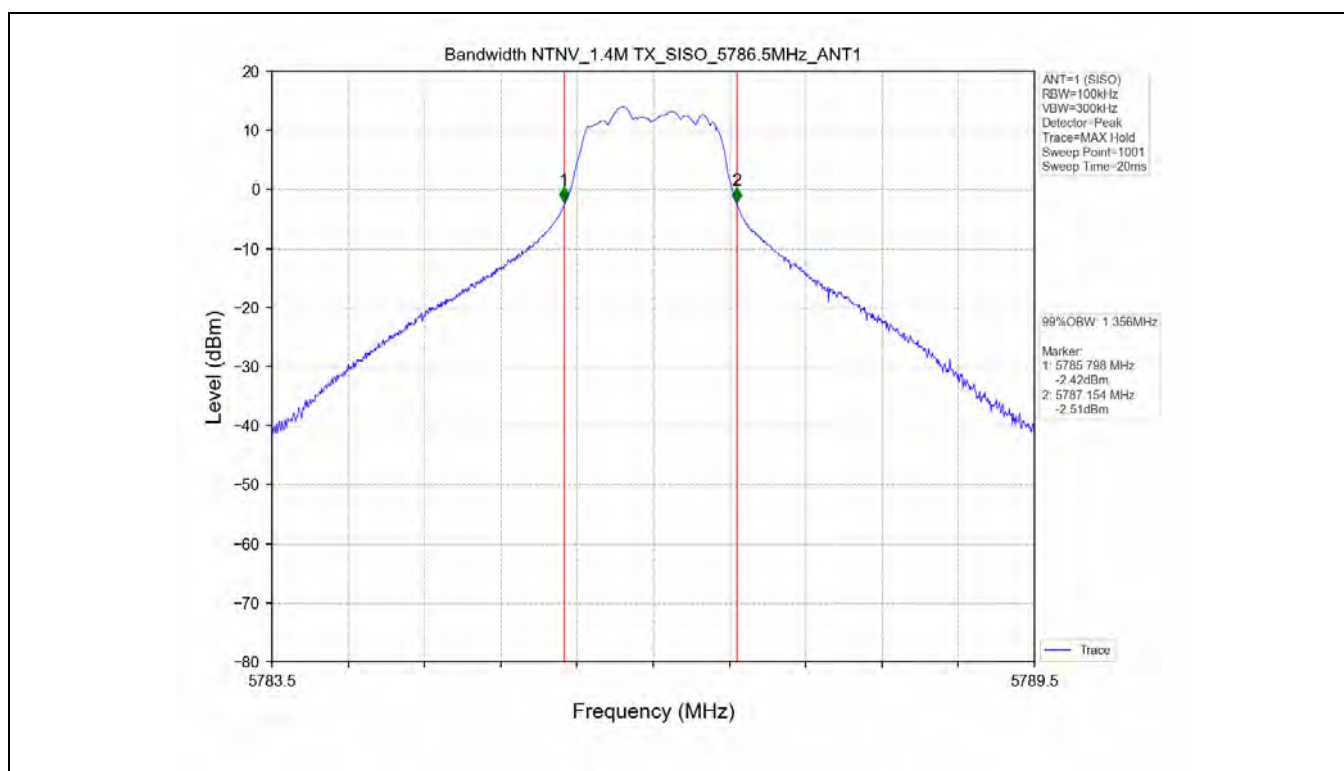
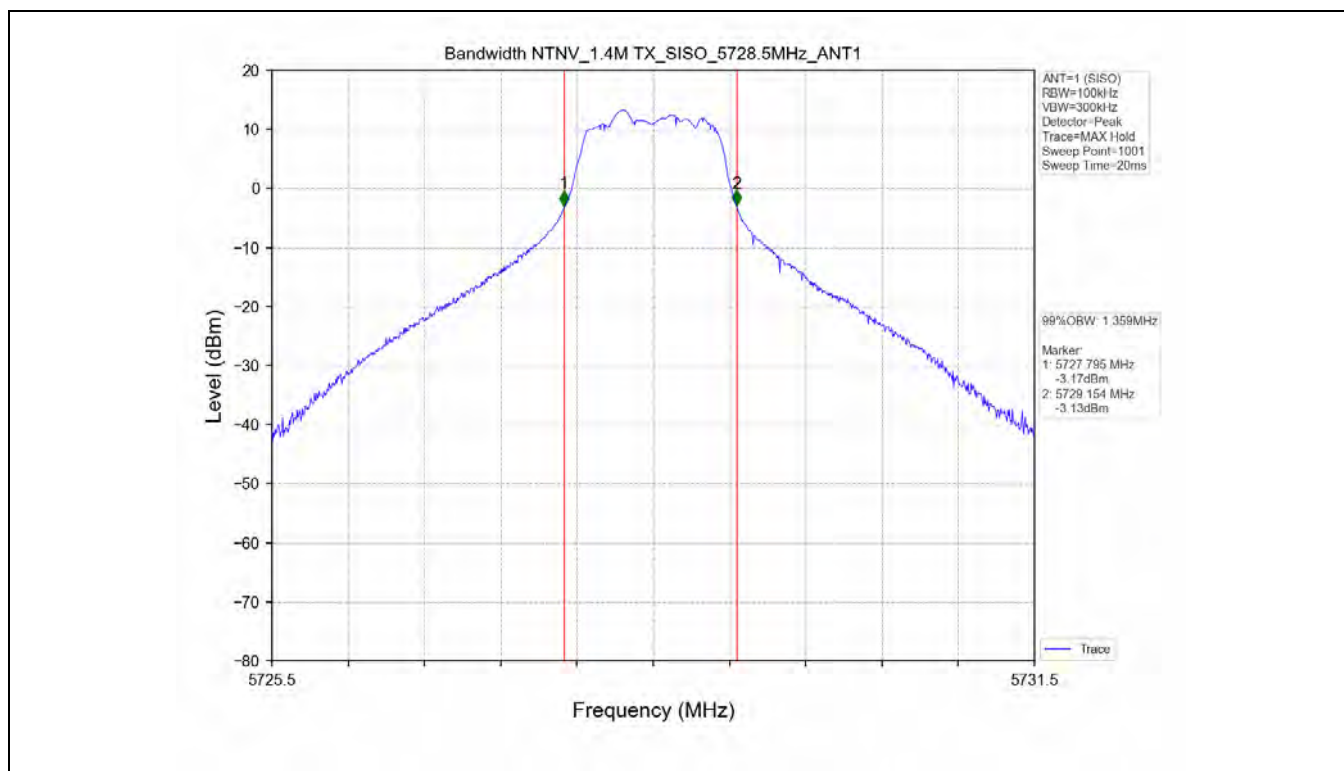


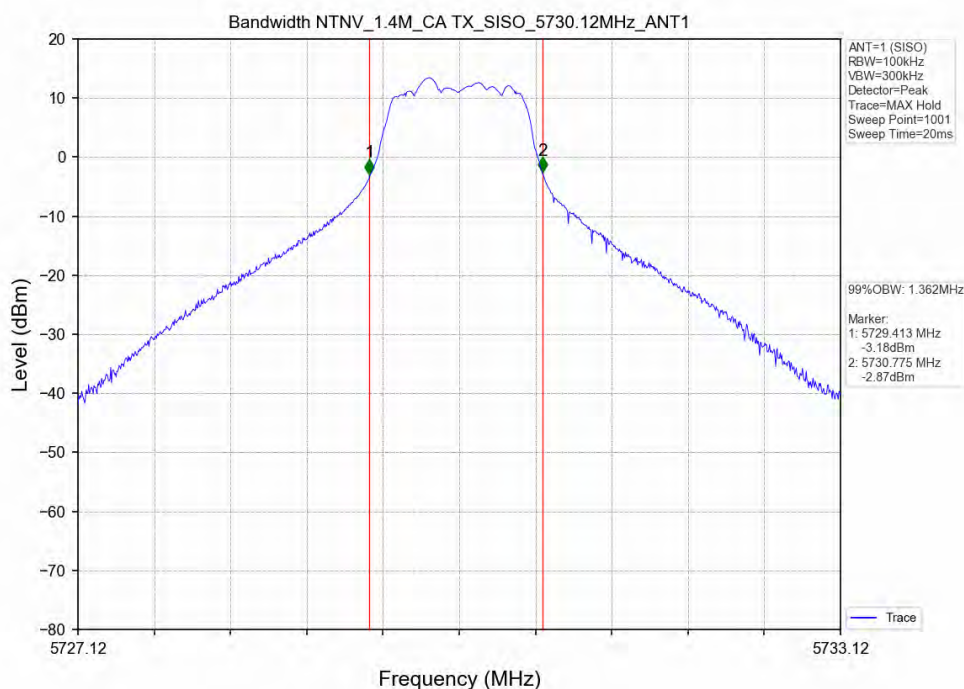
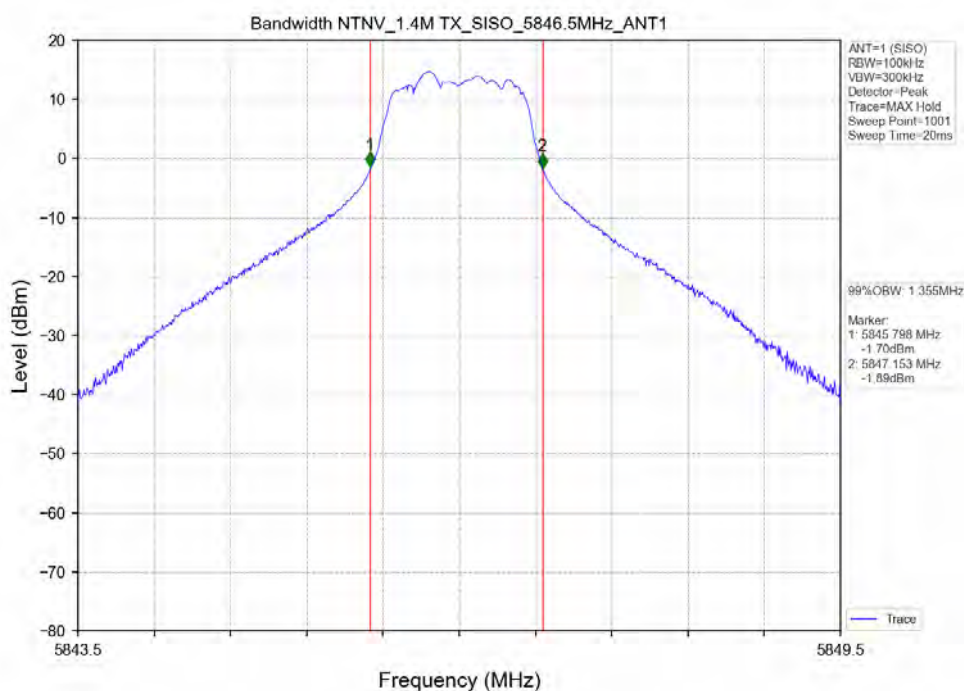


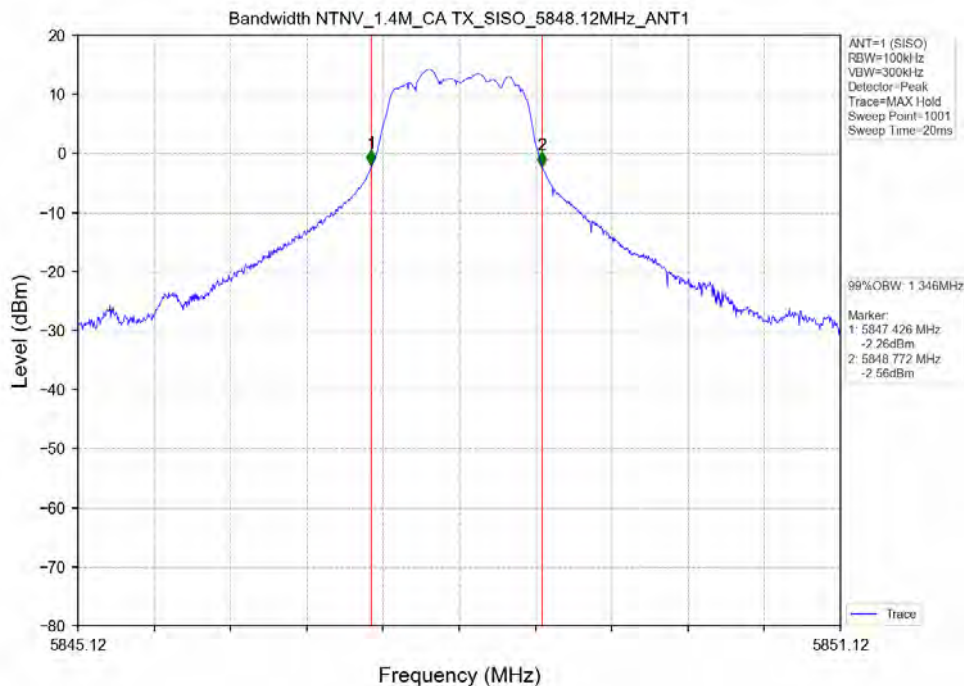
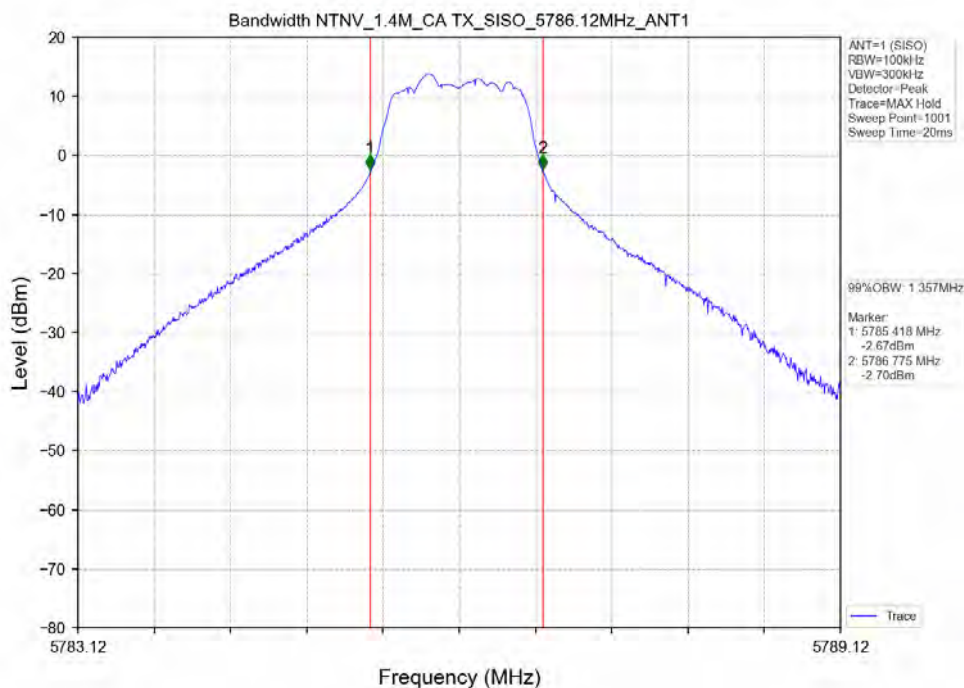


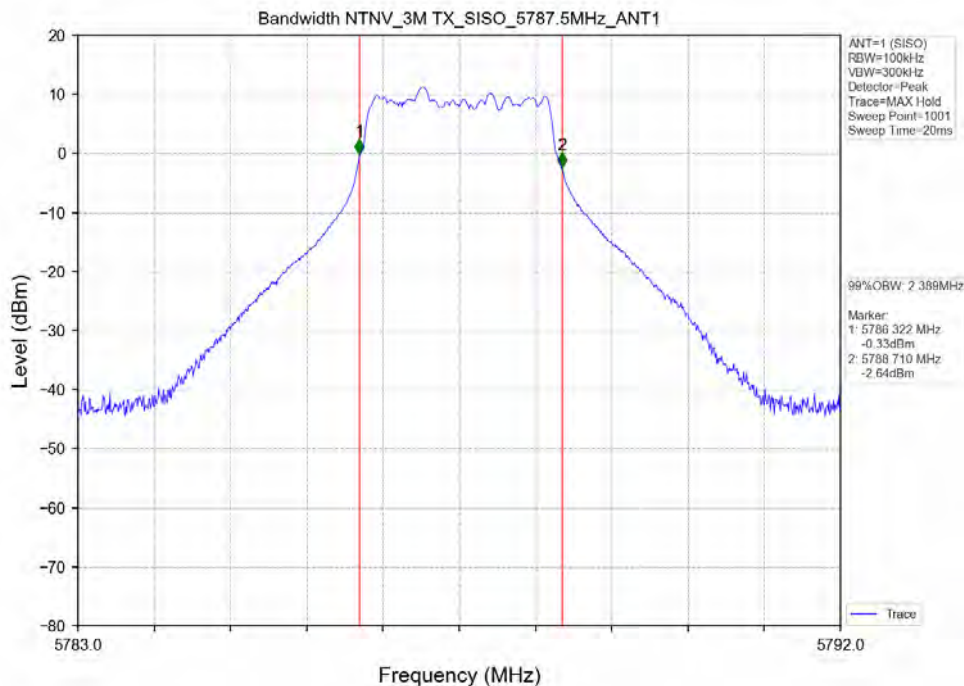
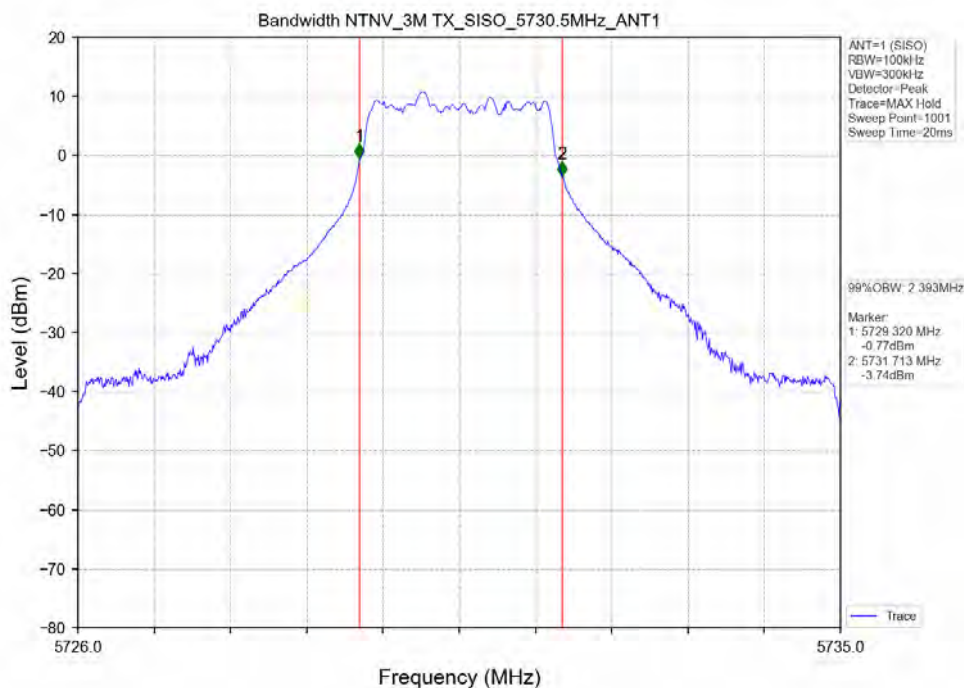


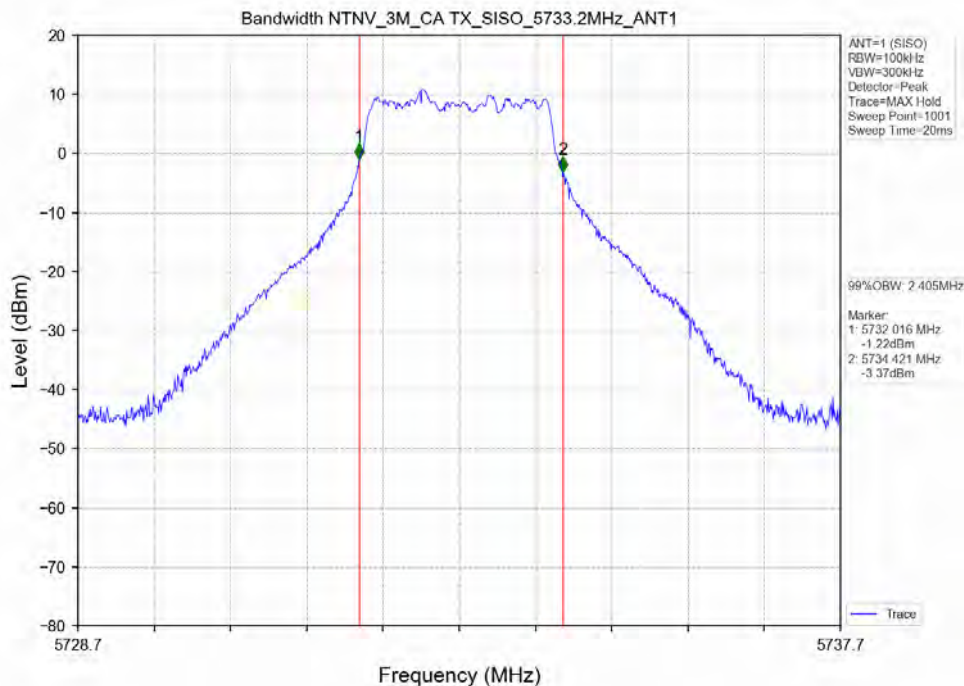
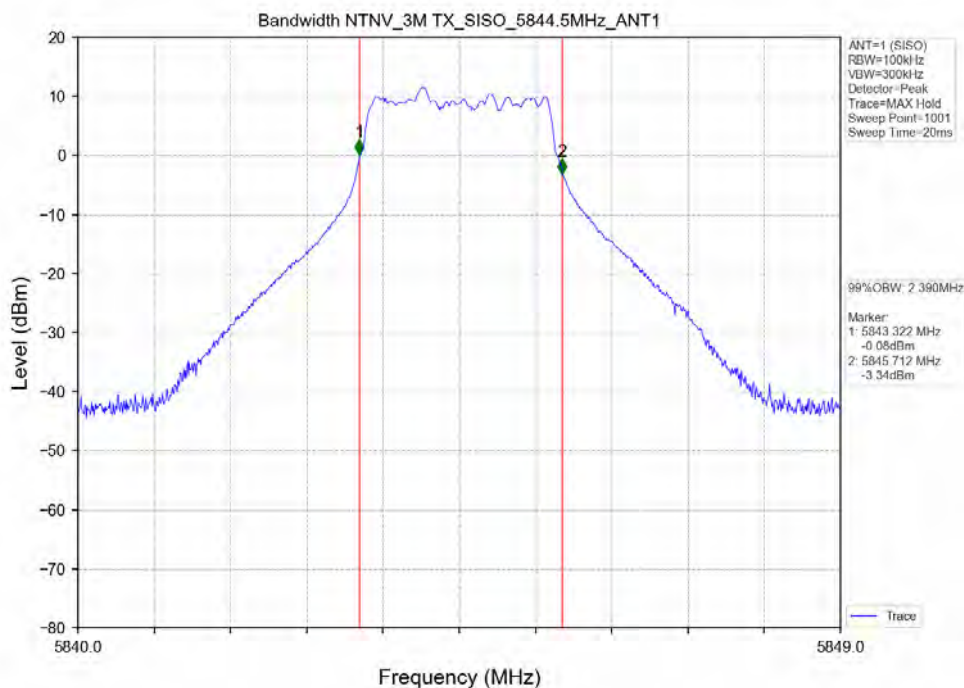
2.3 Test Graph - 99% Occupied Bandwidth

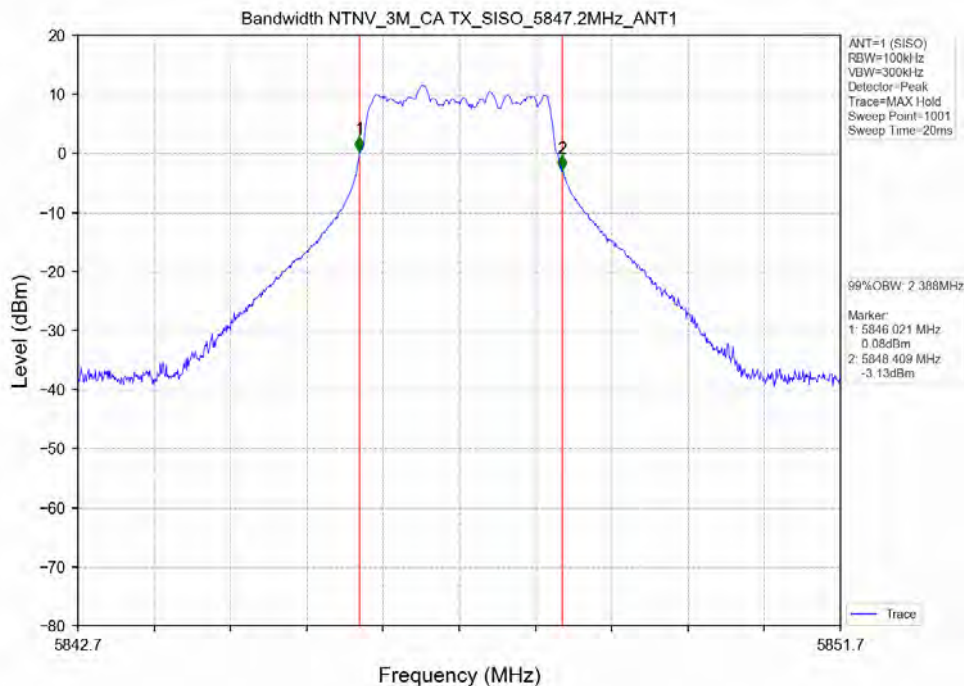
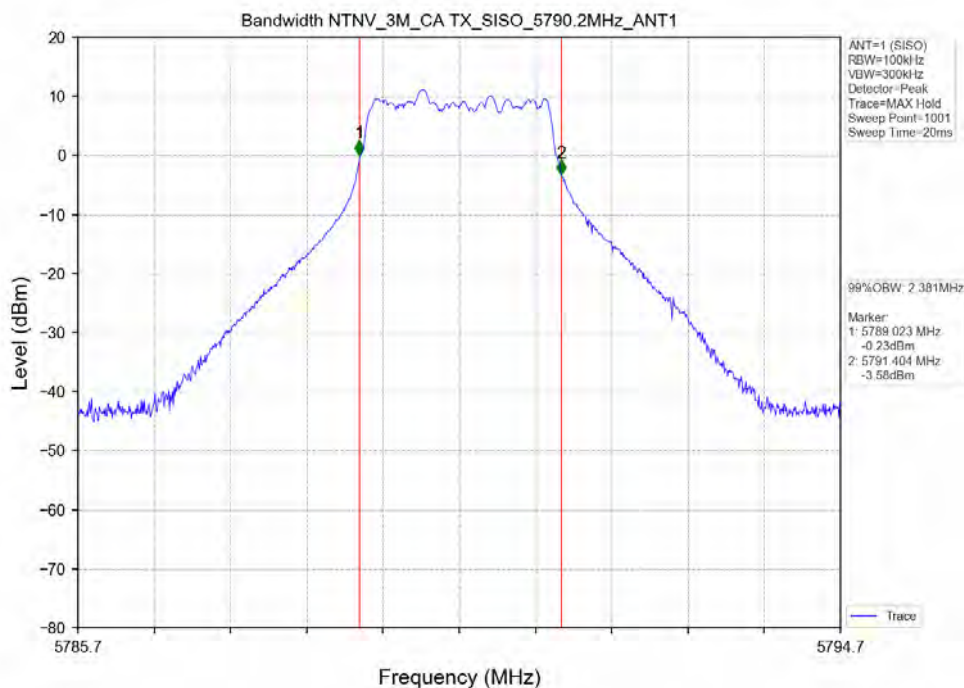














3. Maximum Conducted Output Power

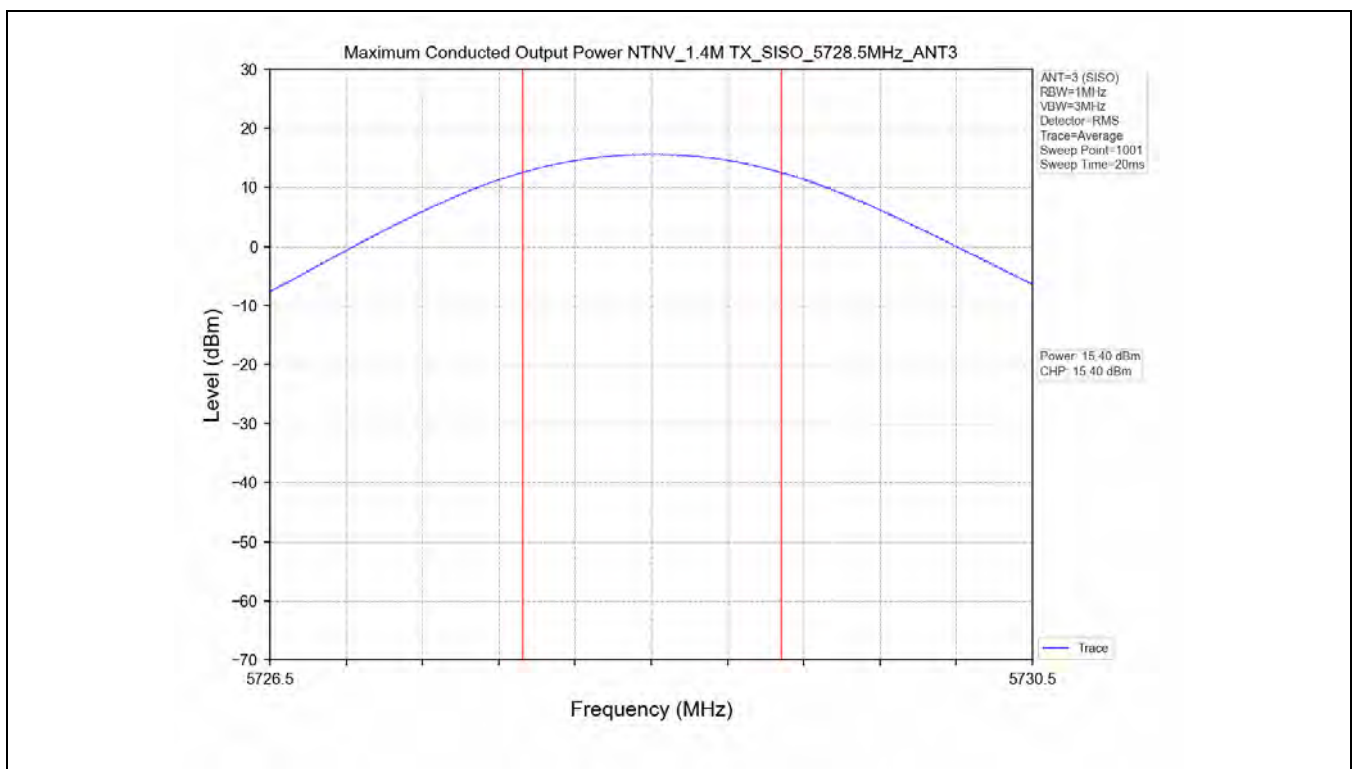
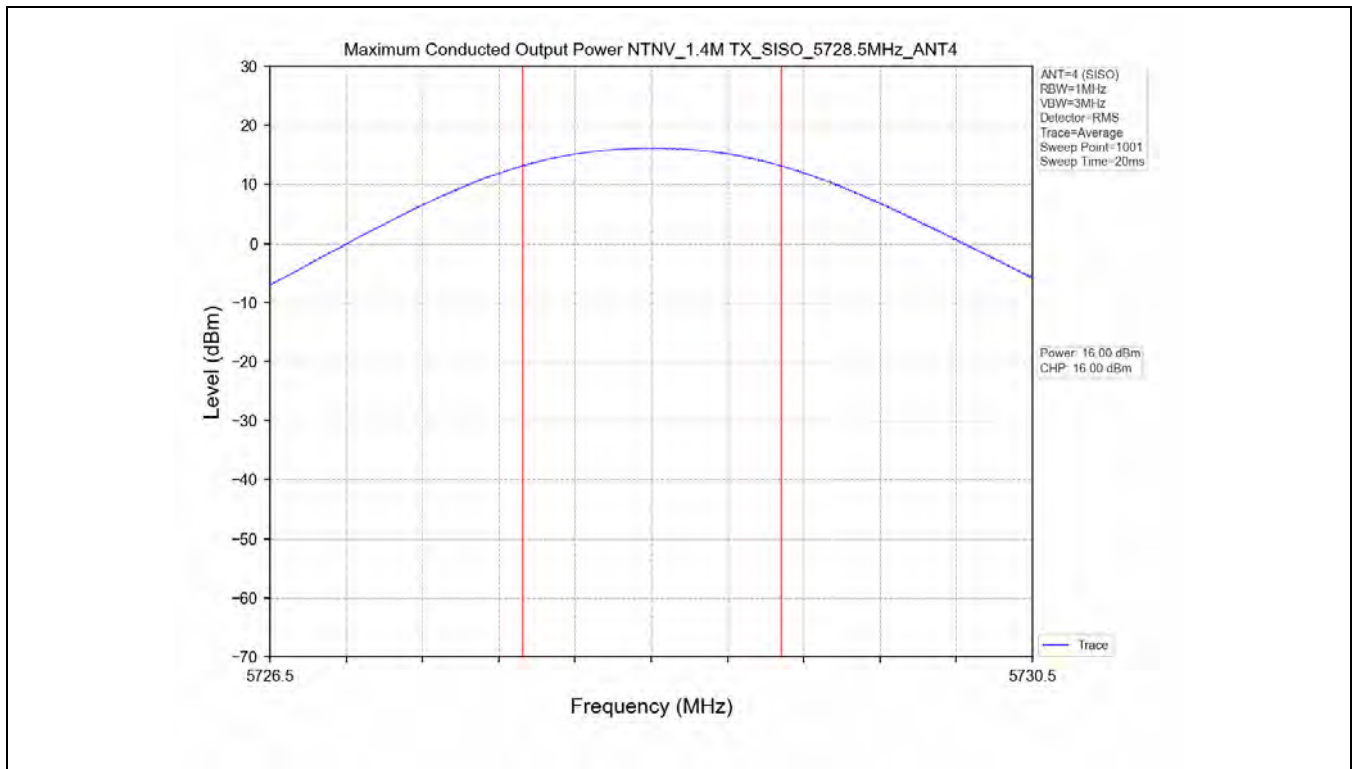
3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)				Limit (dBm)	Verdict
			Ant 4	Ant 3	Ant 2	Ant 1		
1.4M TX	5728.5	SISO	16.00	15.40	13.40	12.86	≤30.00	PASS
	5786.5	SISO	16.15	15.63	14.15	13.56	≤30.00	PASS
	5846.5	SISO	16.61	16.22	14.19	14.25	≤30.00	PASS
1.4M_CA TX	5730.12	SISO	16.05	15.13	13.22	13.03	≤30.00	PASS
	5786.12	SISO	16.29	15.96	13.84	13.38	≤30.00	PASS
	5848.12	SISO	16.52	16.44	14.17	14.00	≤30.00	PASS
3M TX	5730.5	SISO	16.65	16.09	13.82	13.44	≤30.00	PASS
	5787.5	SISO	16.92	16.48	14.49	13.88	≤30.00	PASS
	5844.5	SISO	17.29	16.71	14.43	14.16	≤30.00	PASS
3M_CA TX	5733.2	SISO	16.69	16.05	13.83	13.40	≤30.00	PASS
	5790.2	SISO	16.93	16.41	14.48	13.78	≤30.00	PASS
	5847.2	SISO	17.32	16.63	14.48	14.14	≤30.00	PASS





3.2 Test Graph

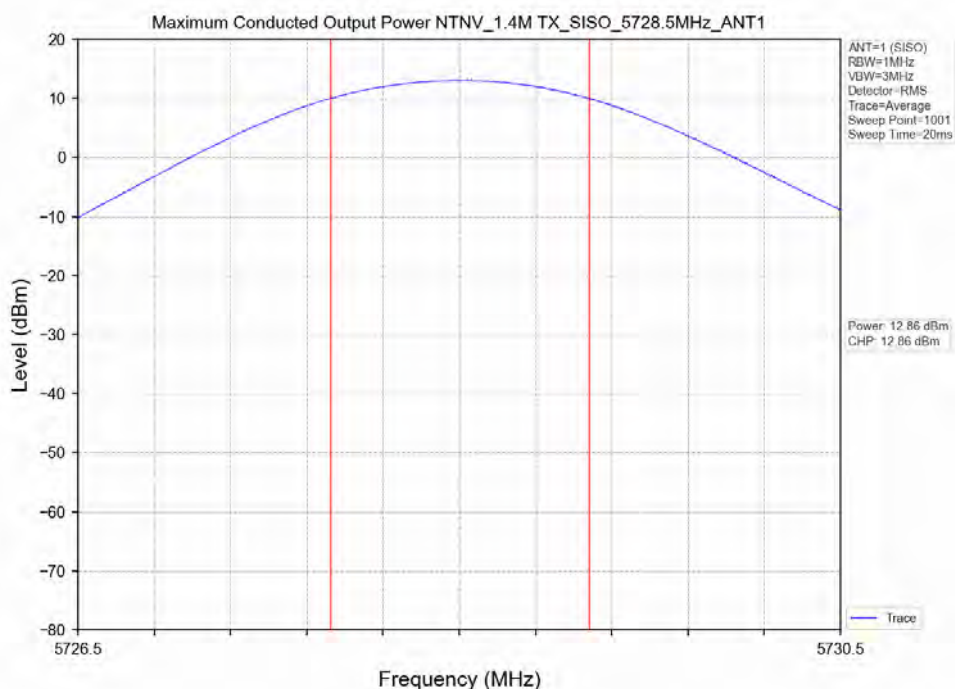
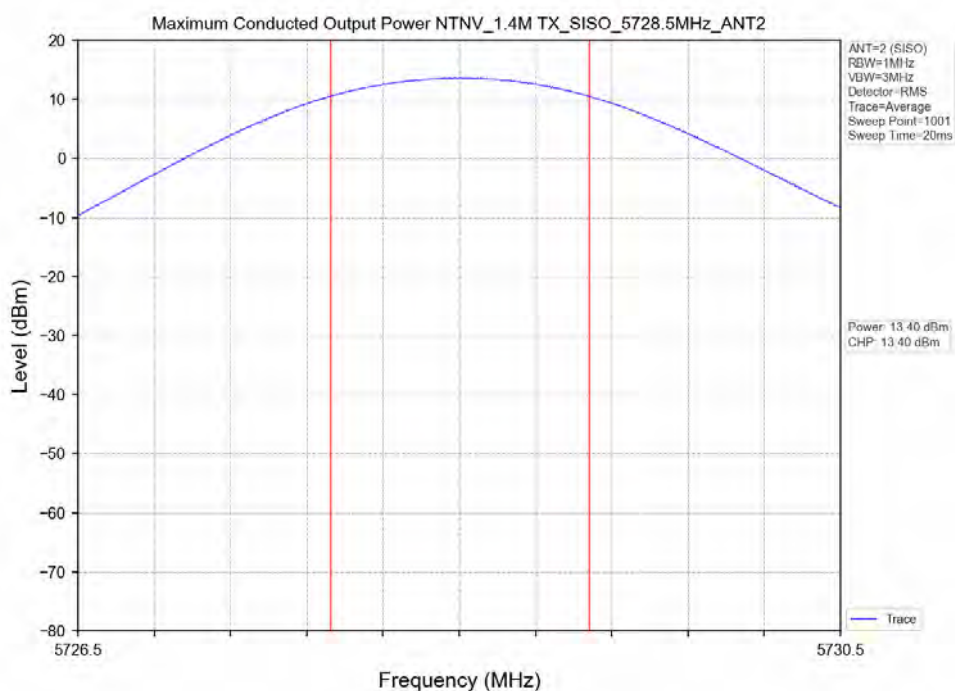


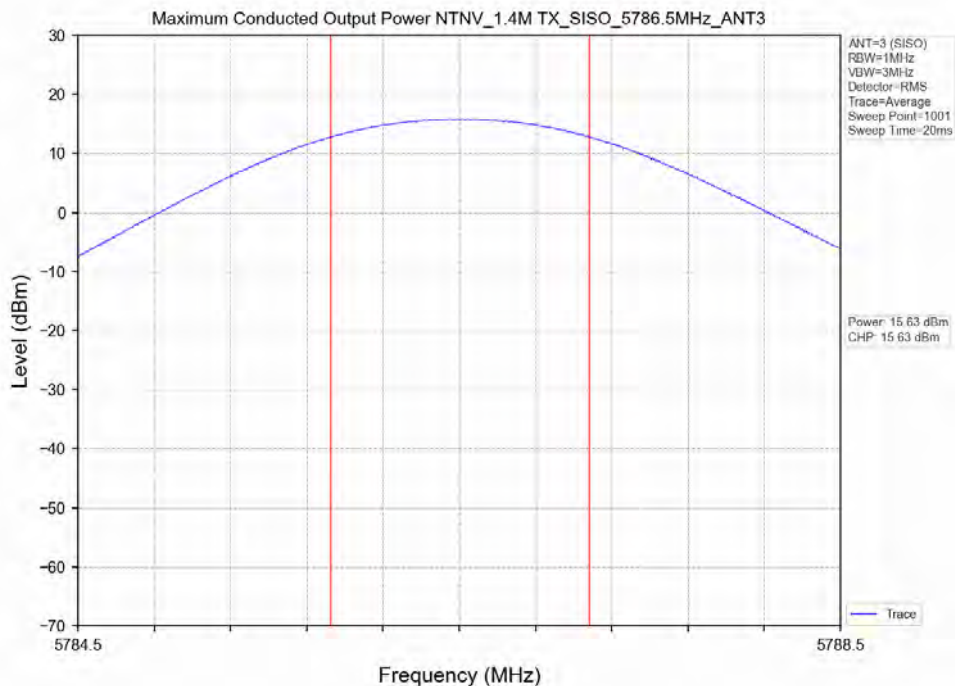
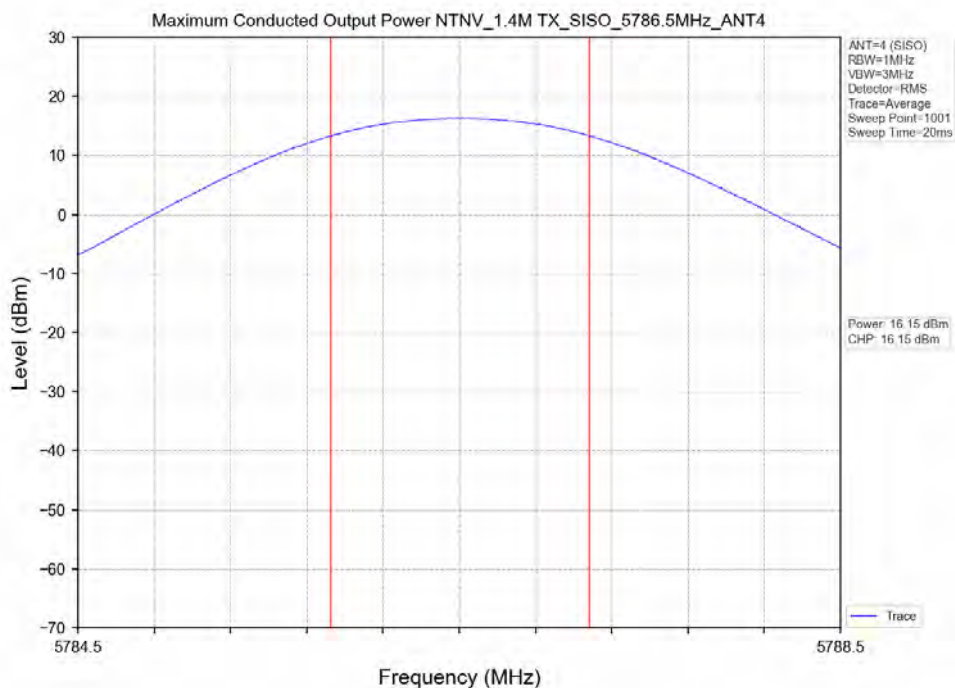
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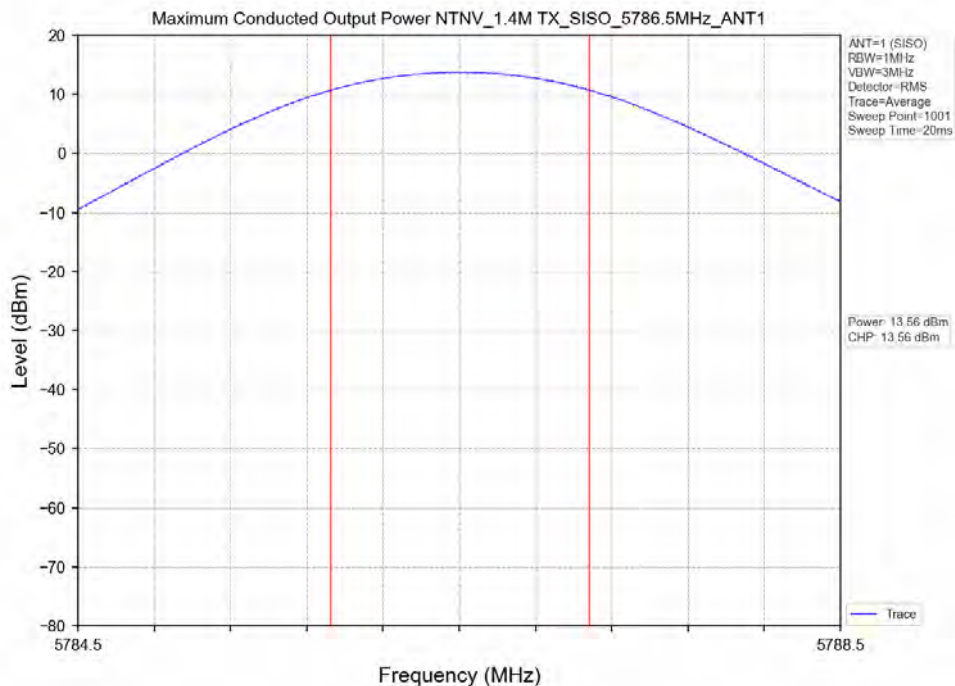
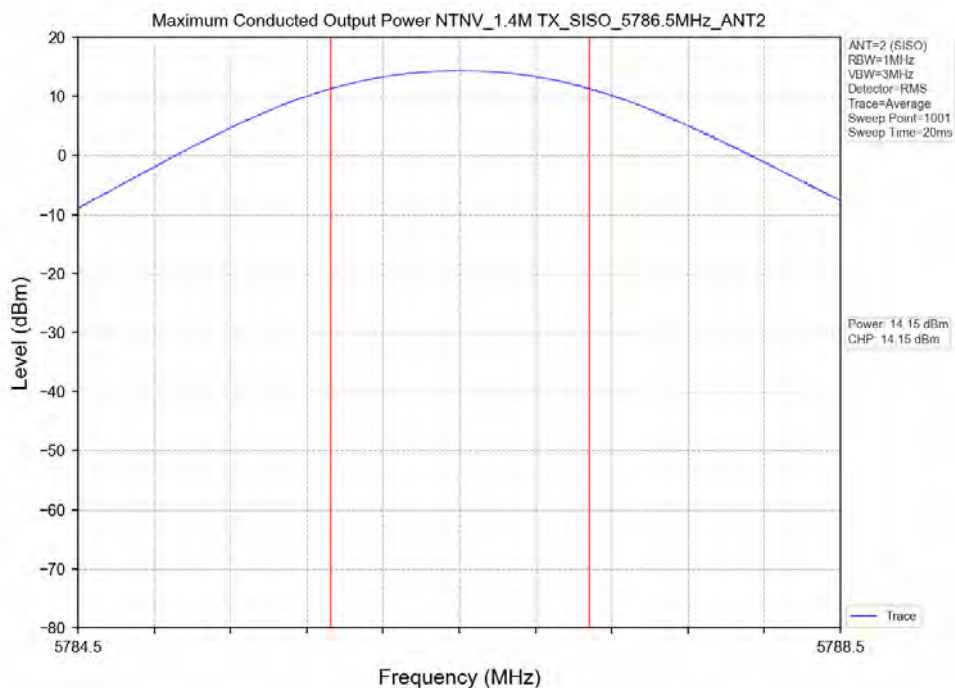
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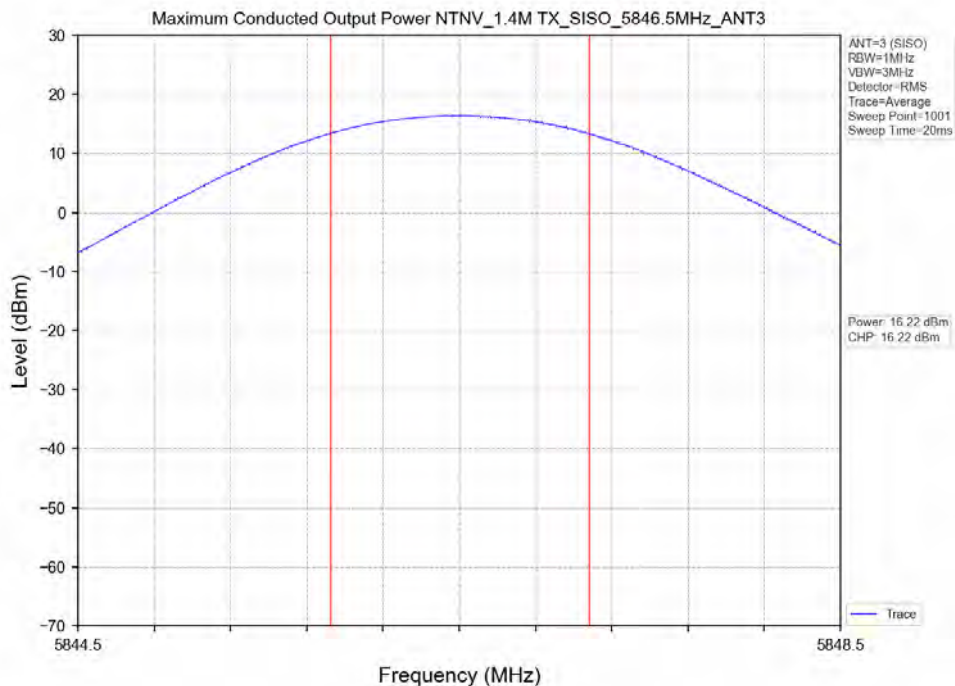
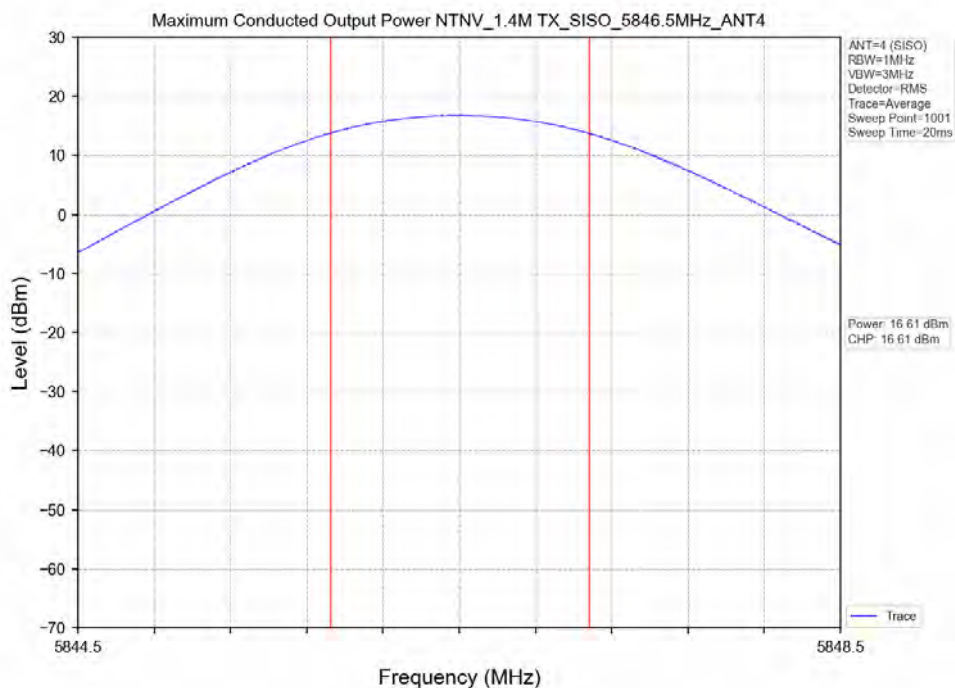
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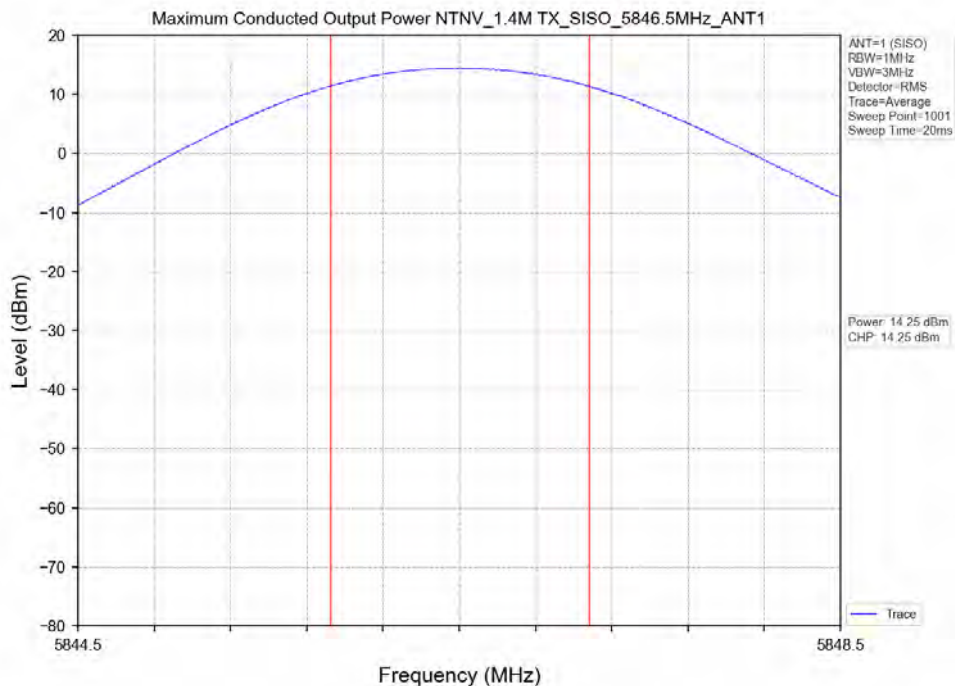
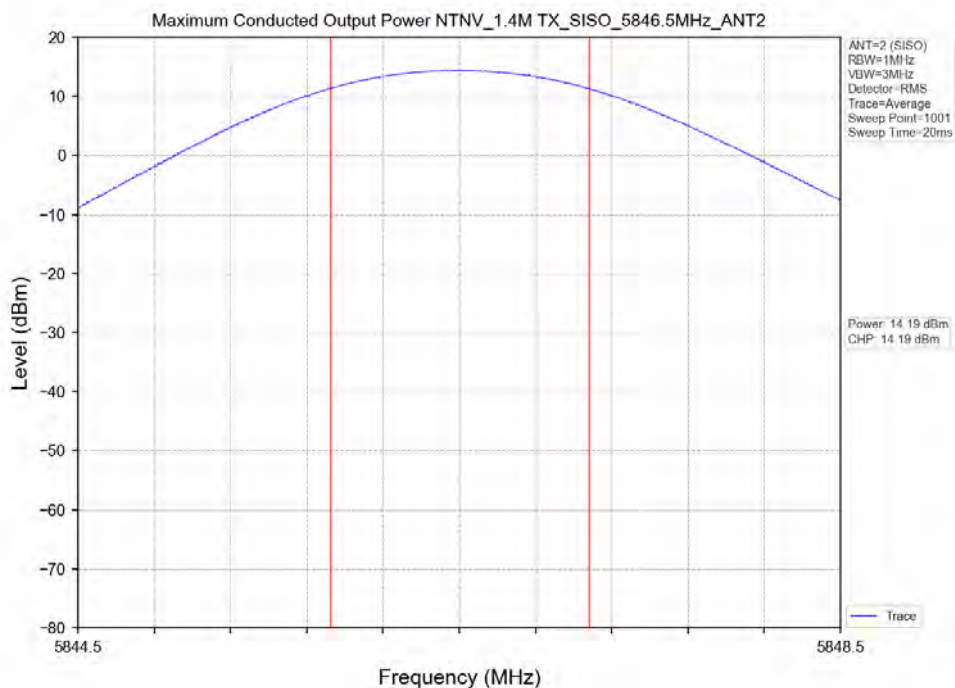
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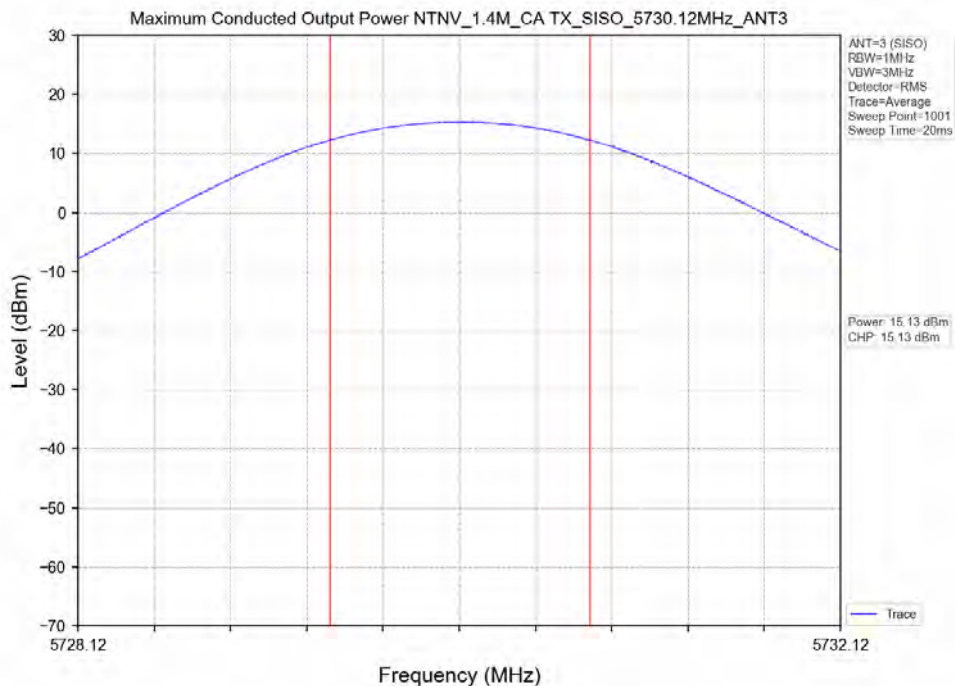
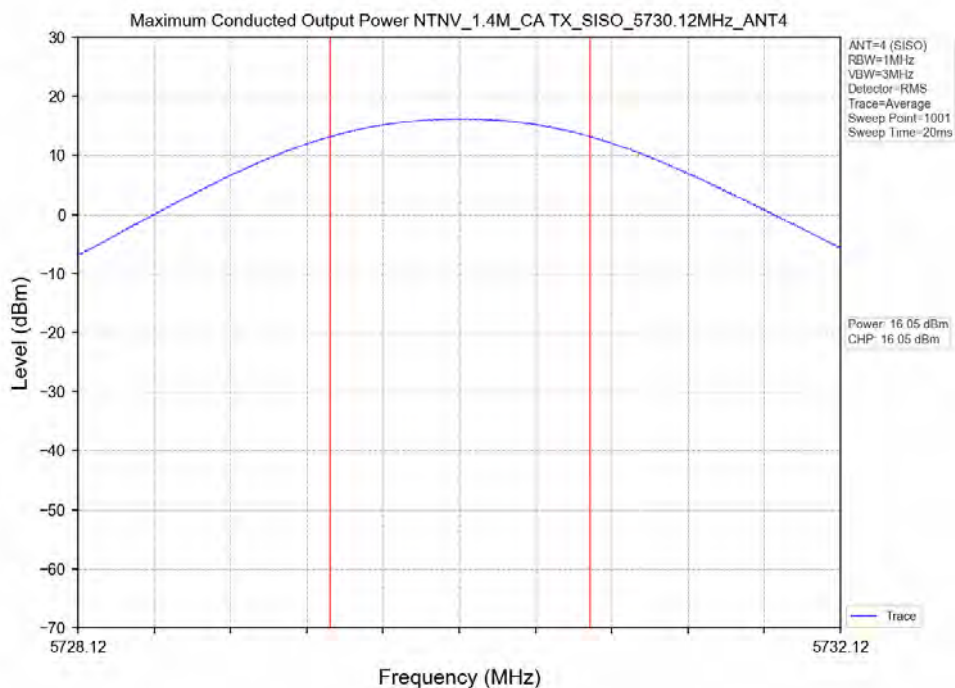


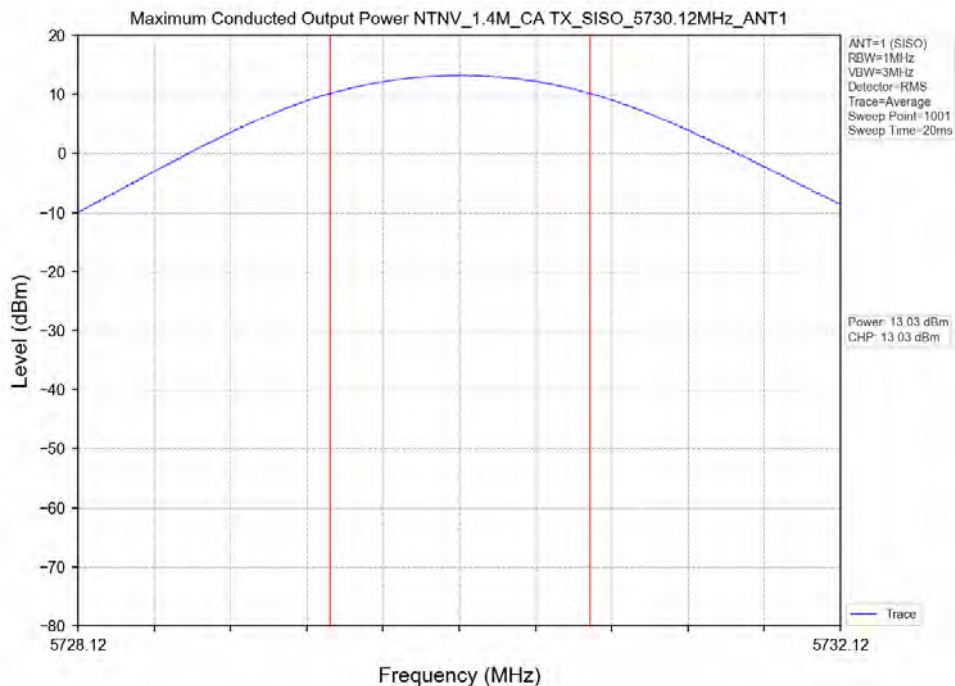
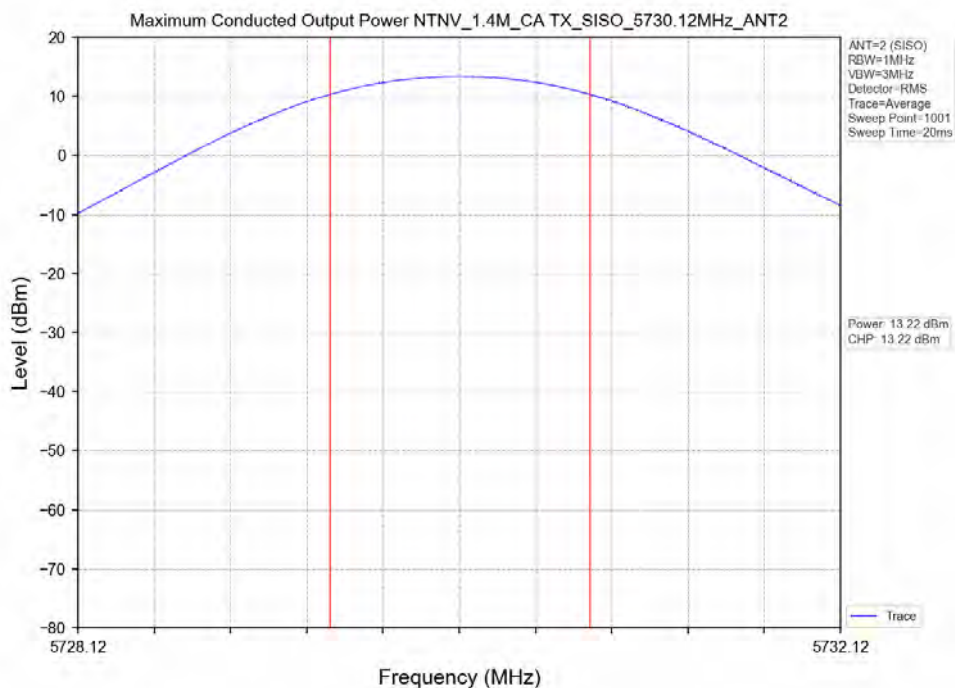


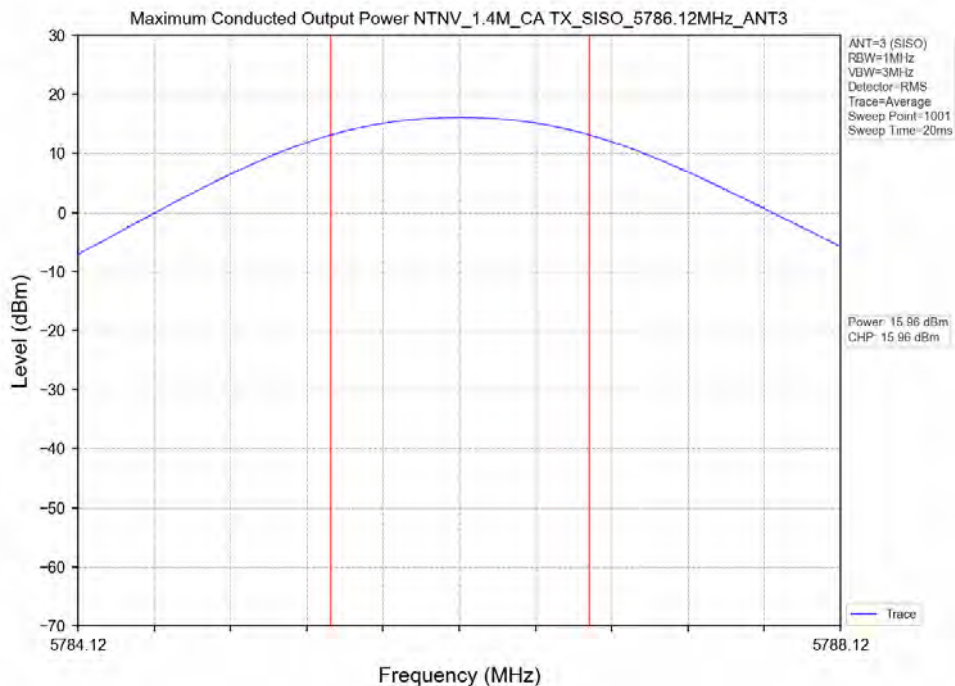
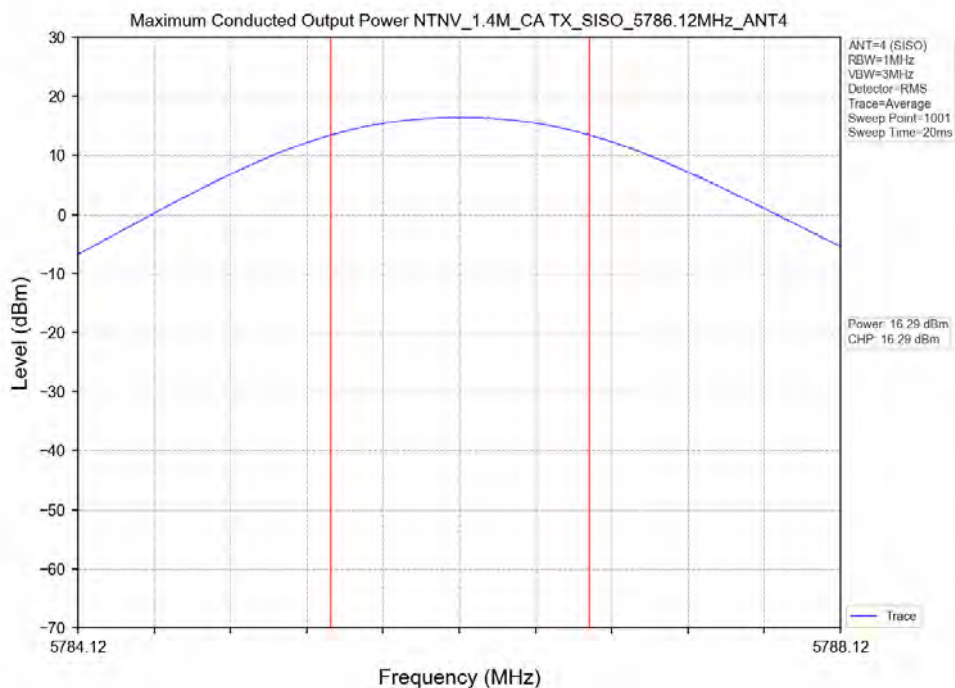


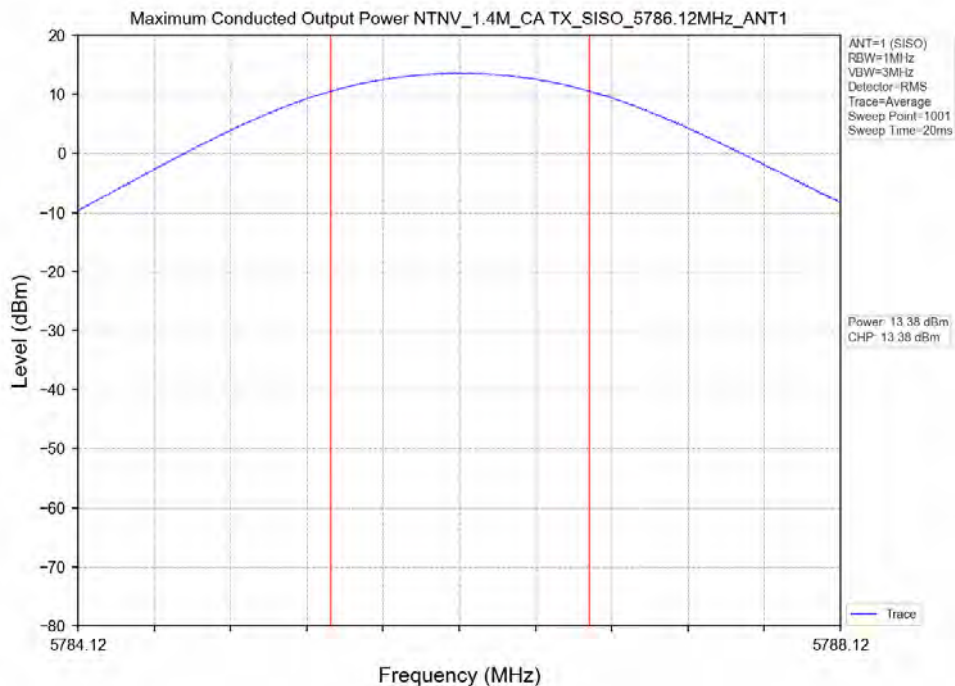
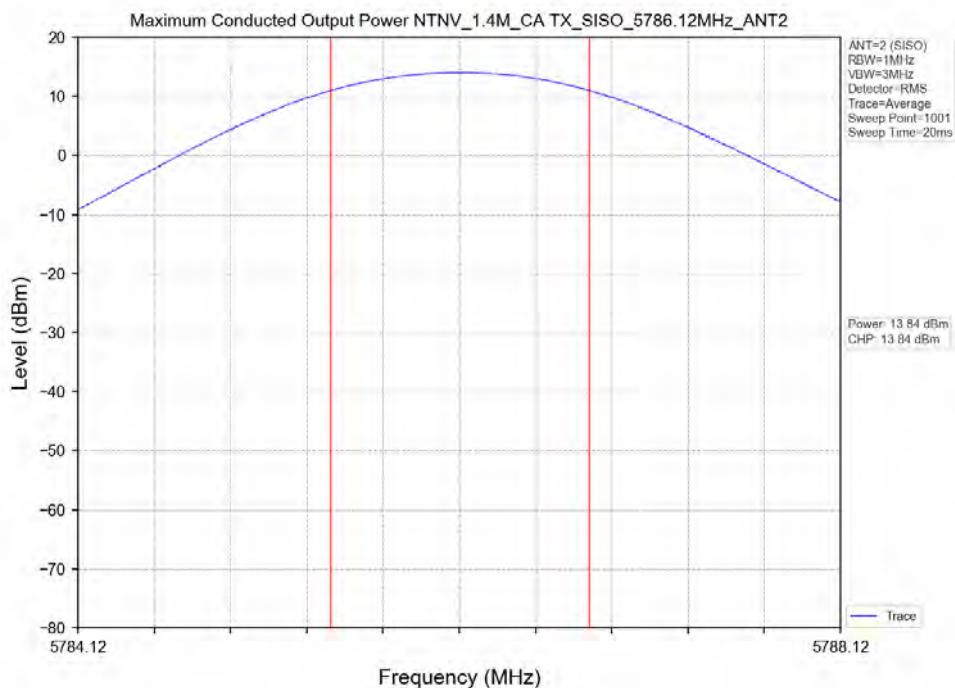


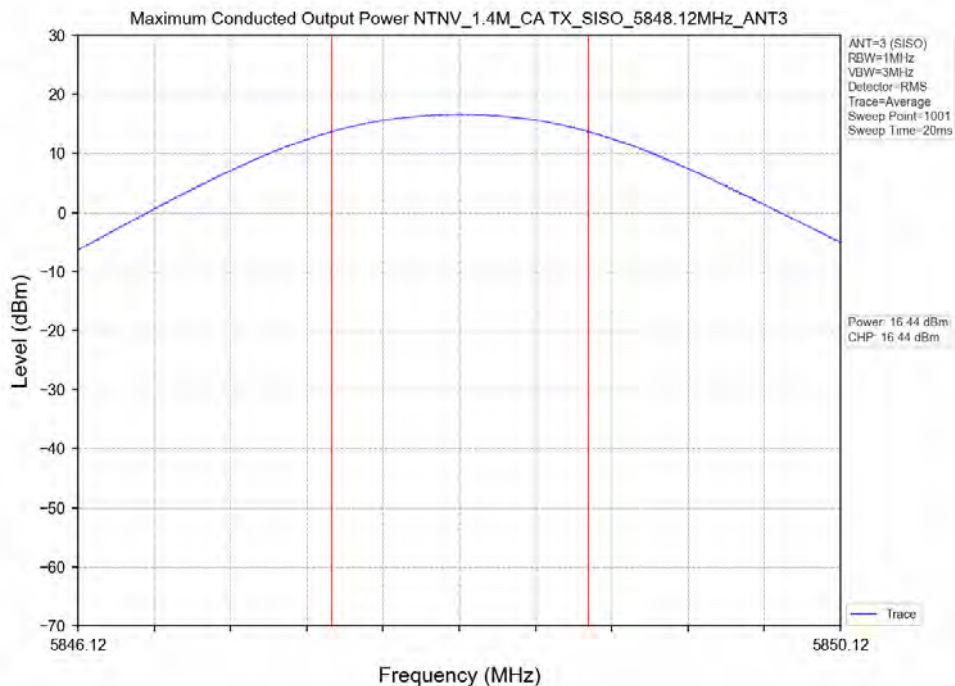
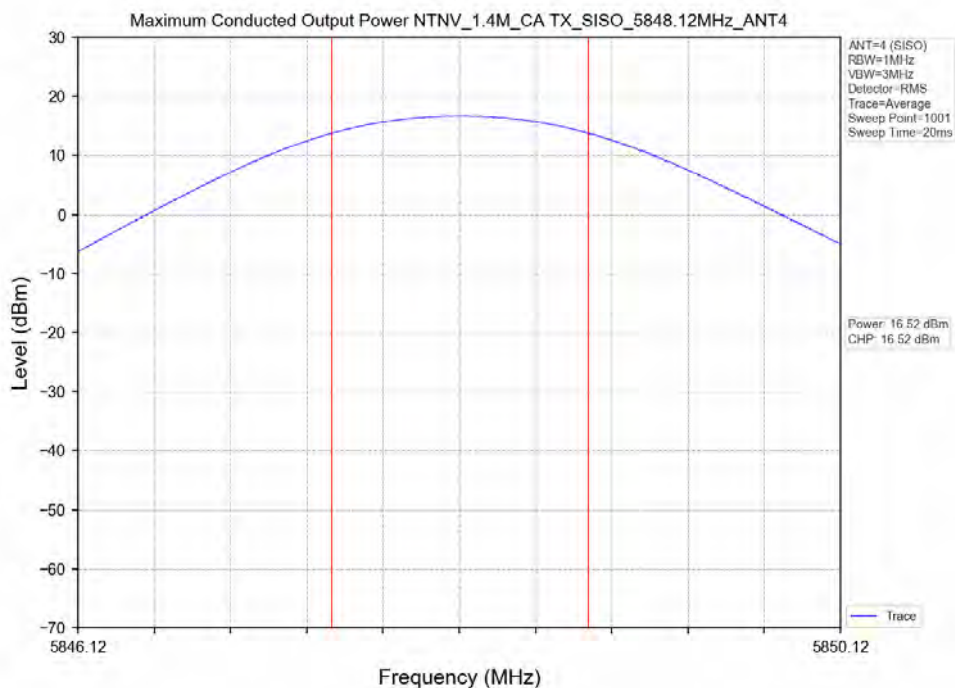


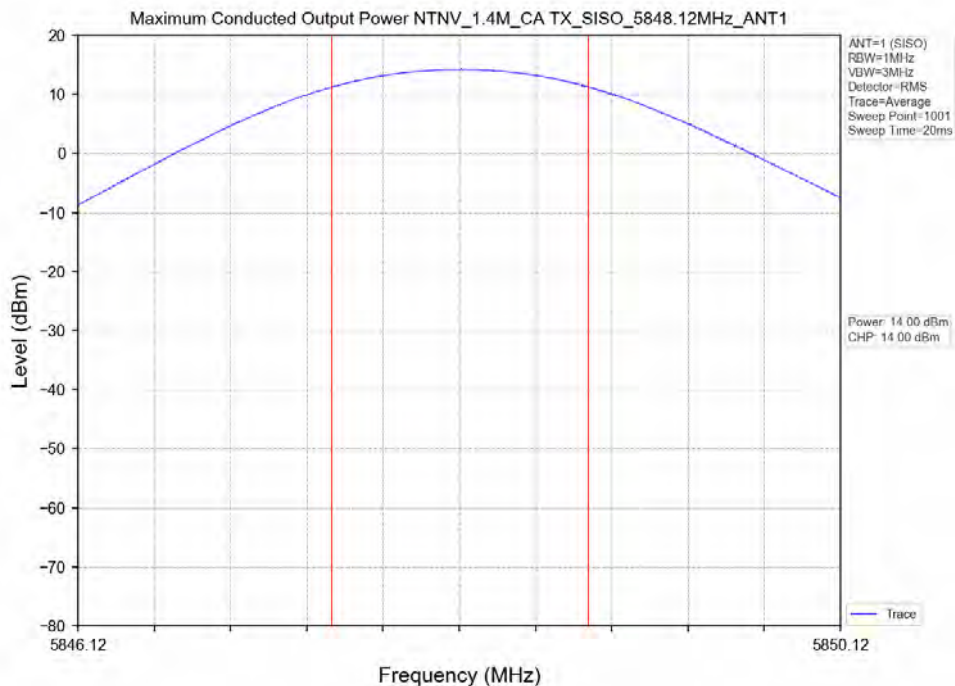
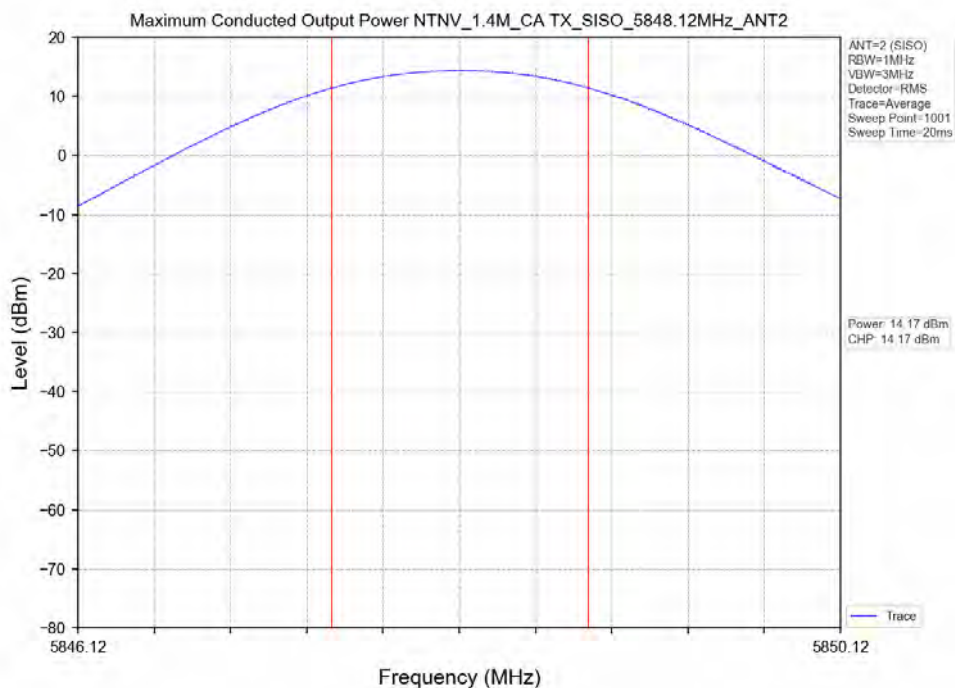


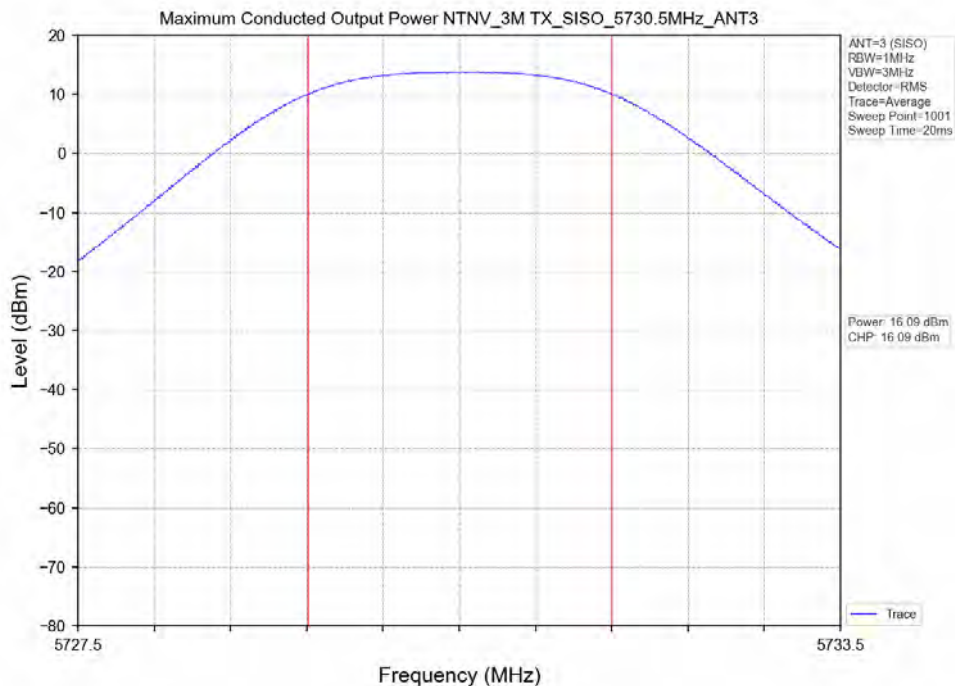
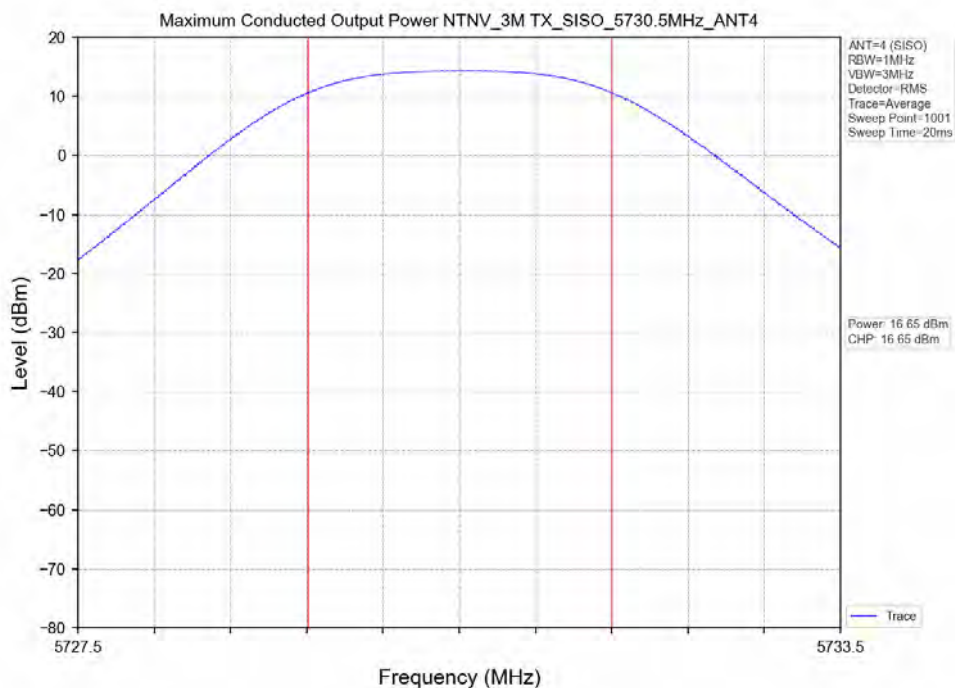


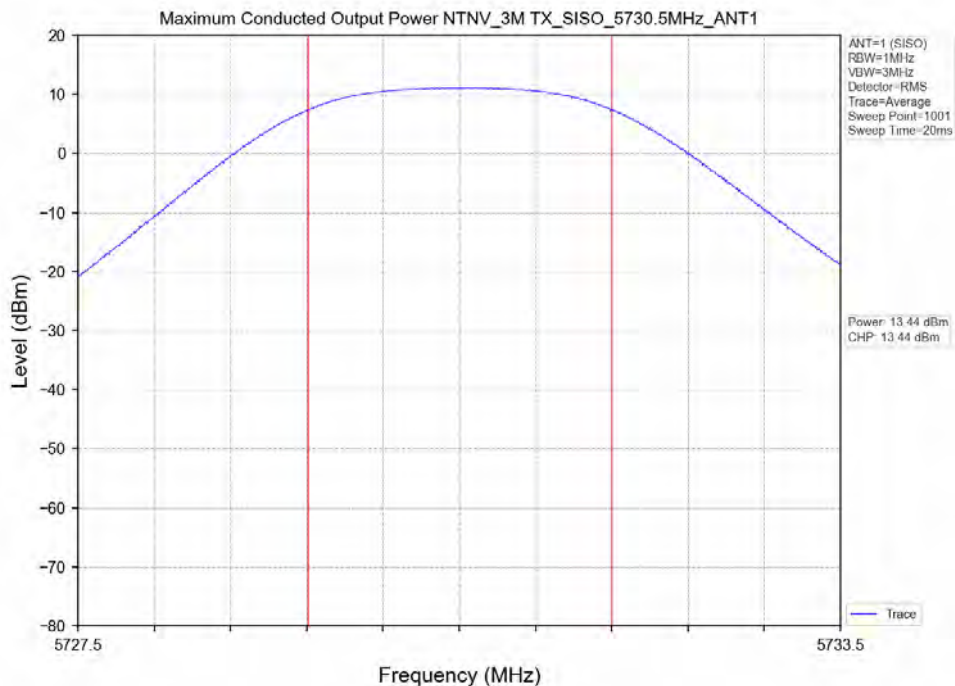
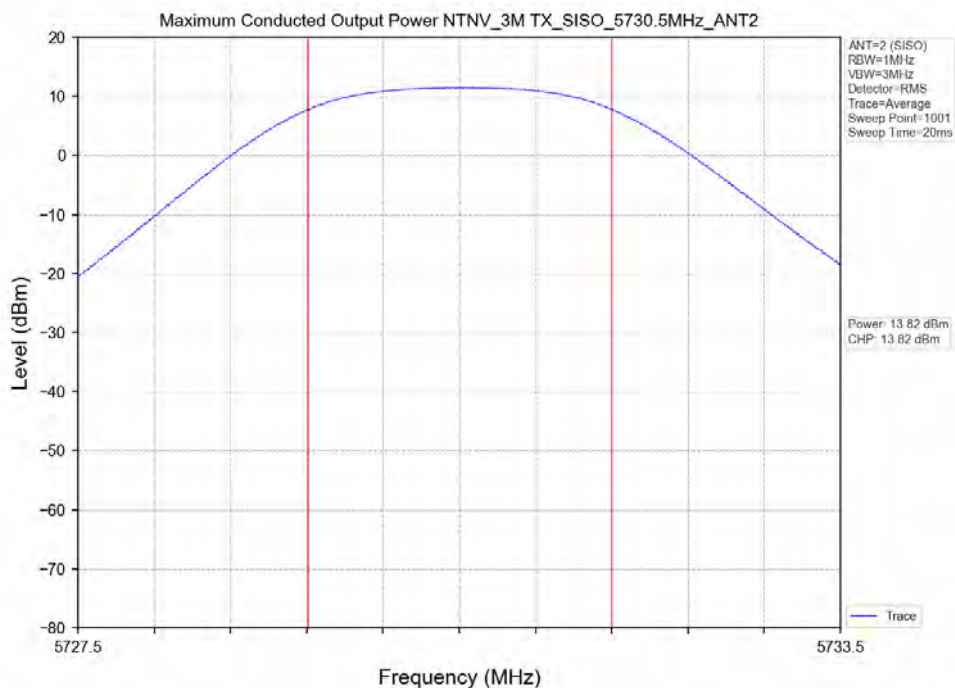


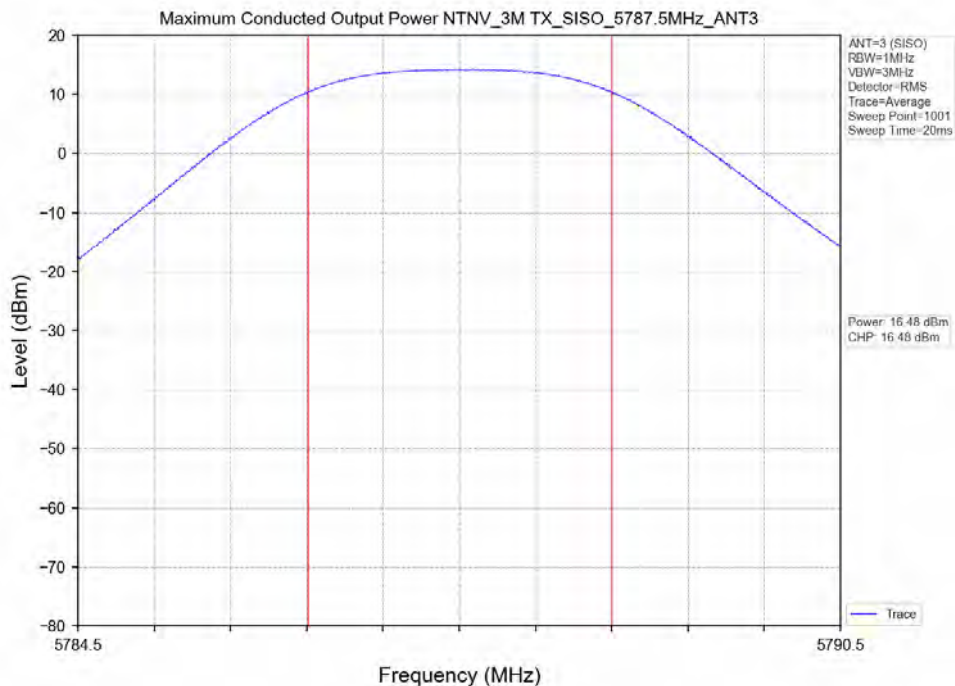
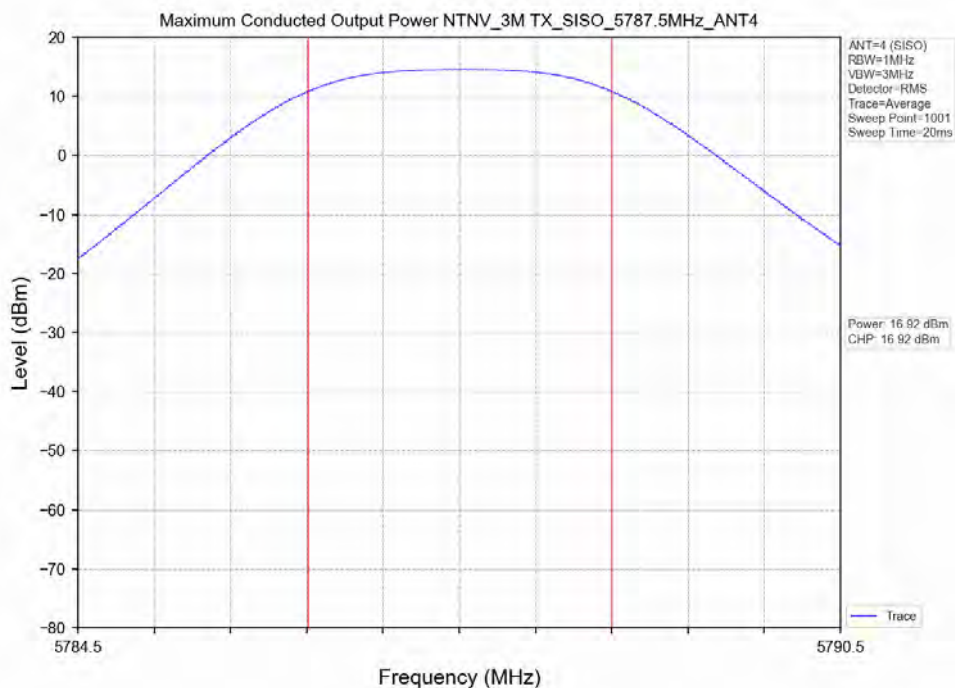


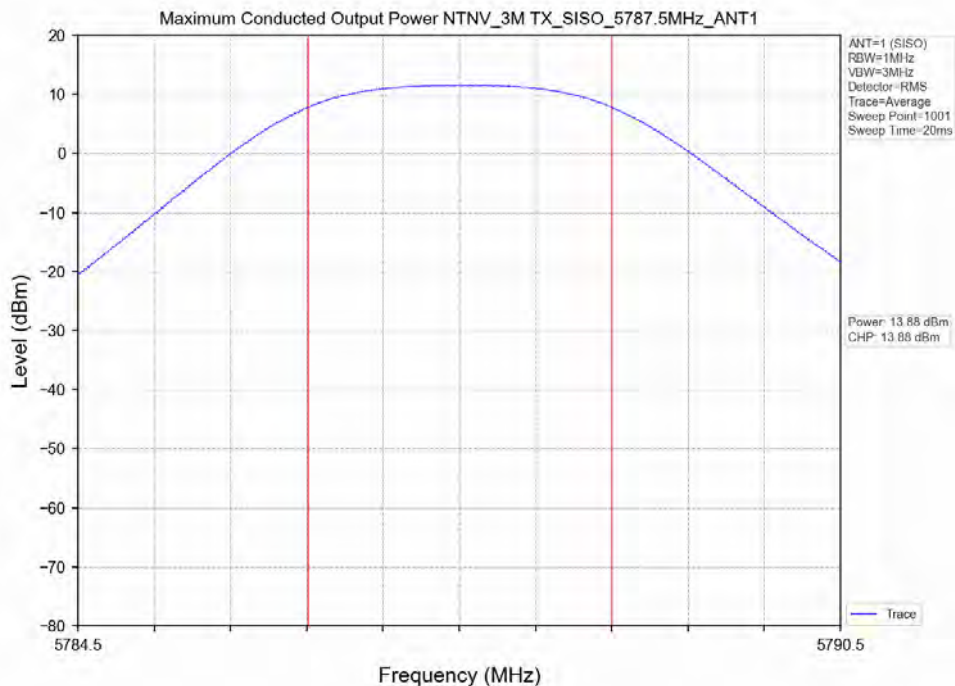
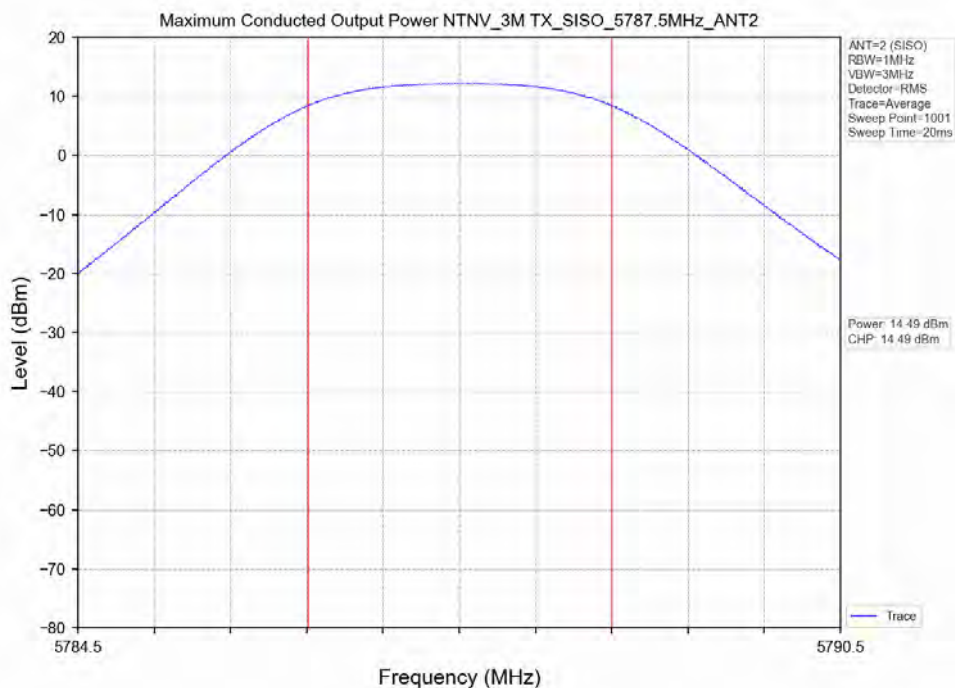


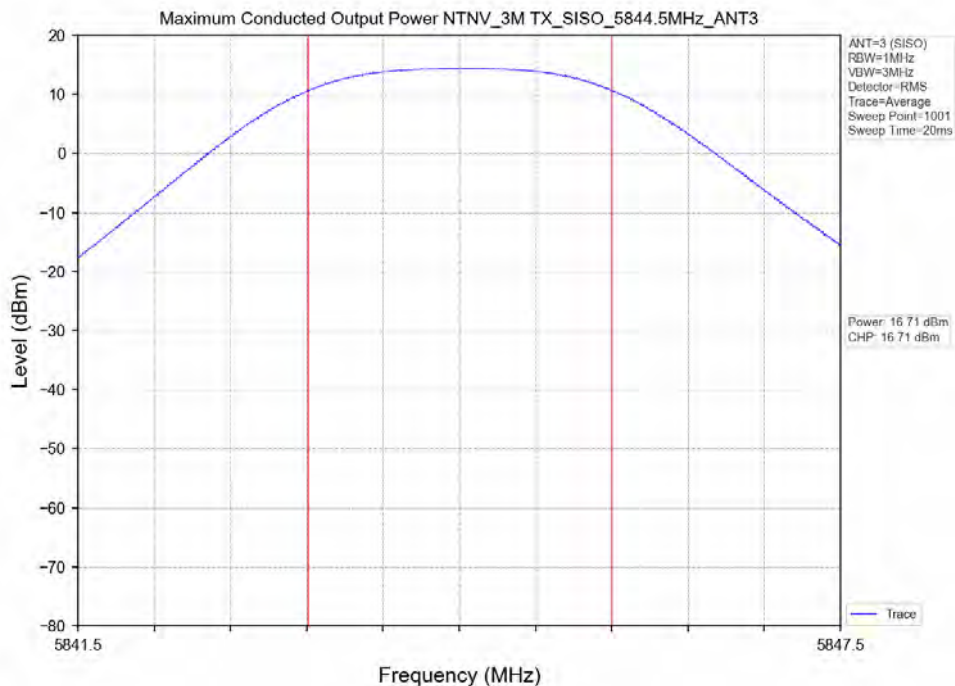
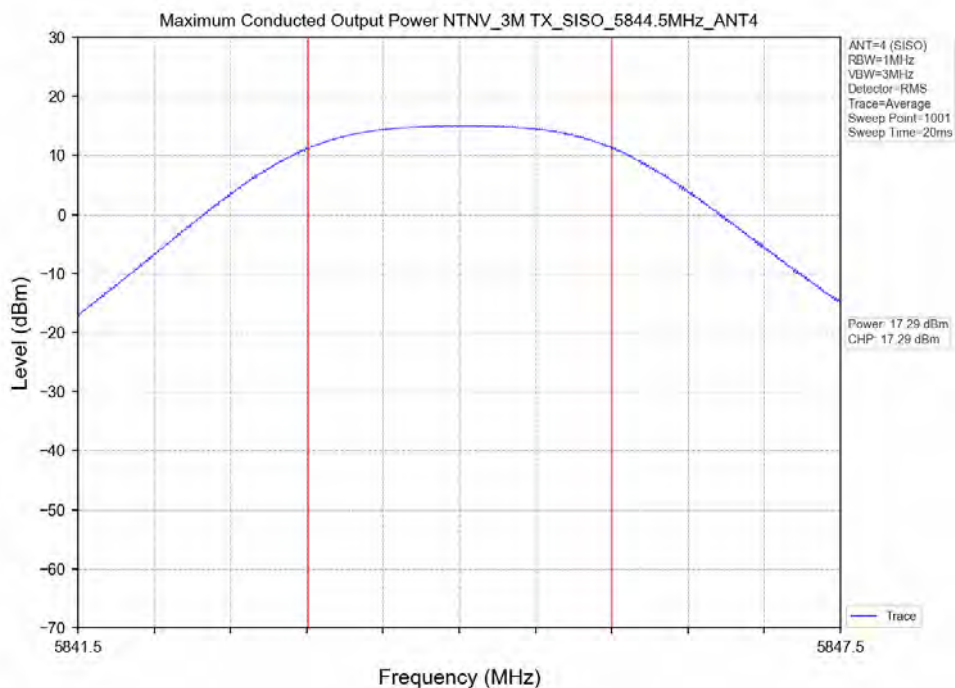


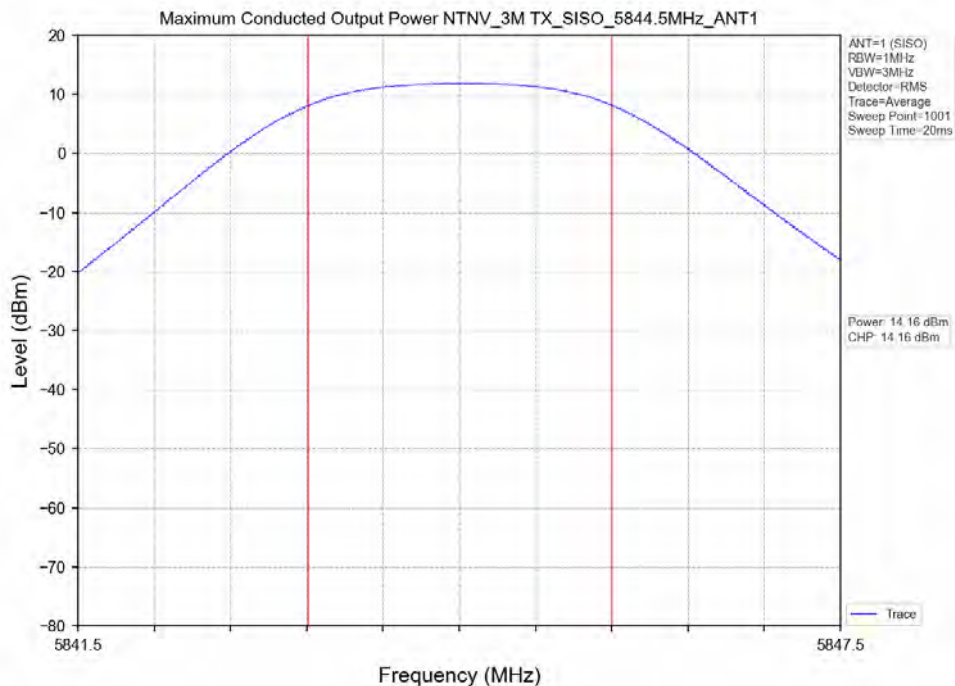
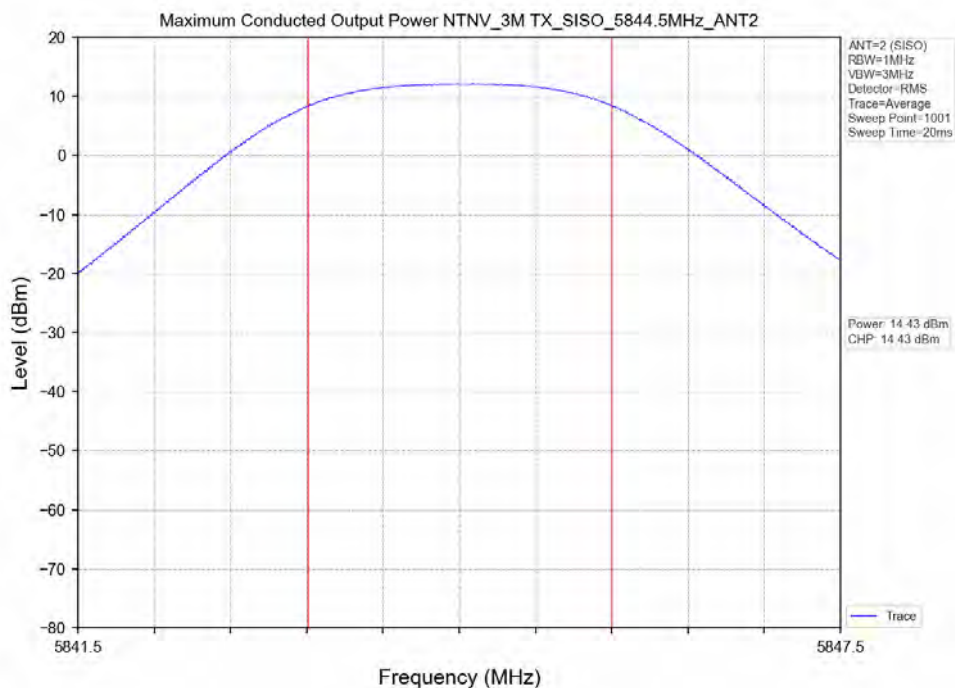


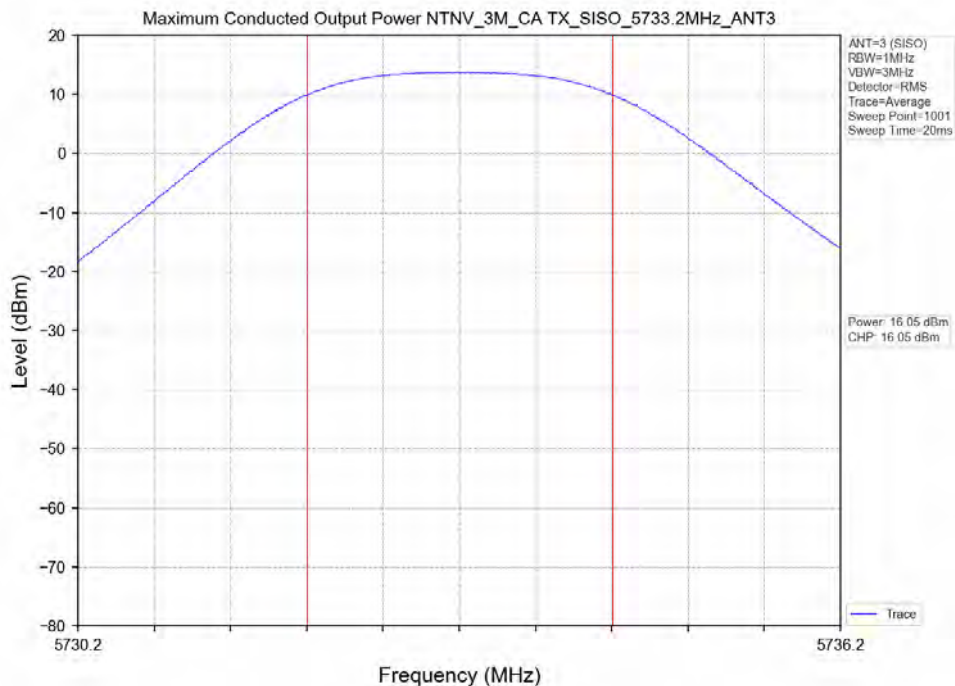




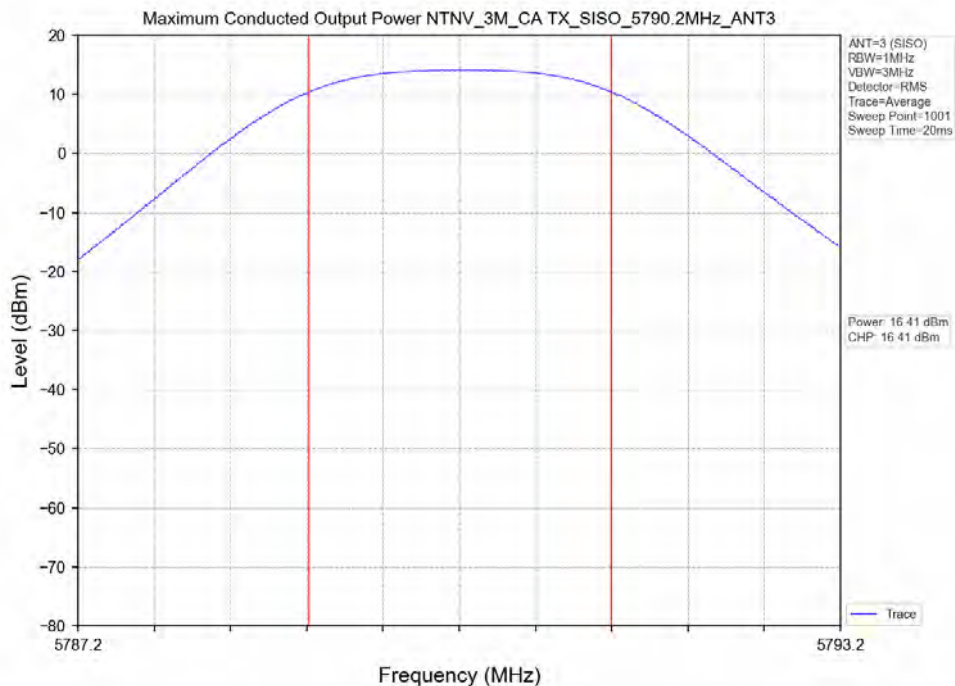
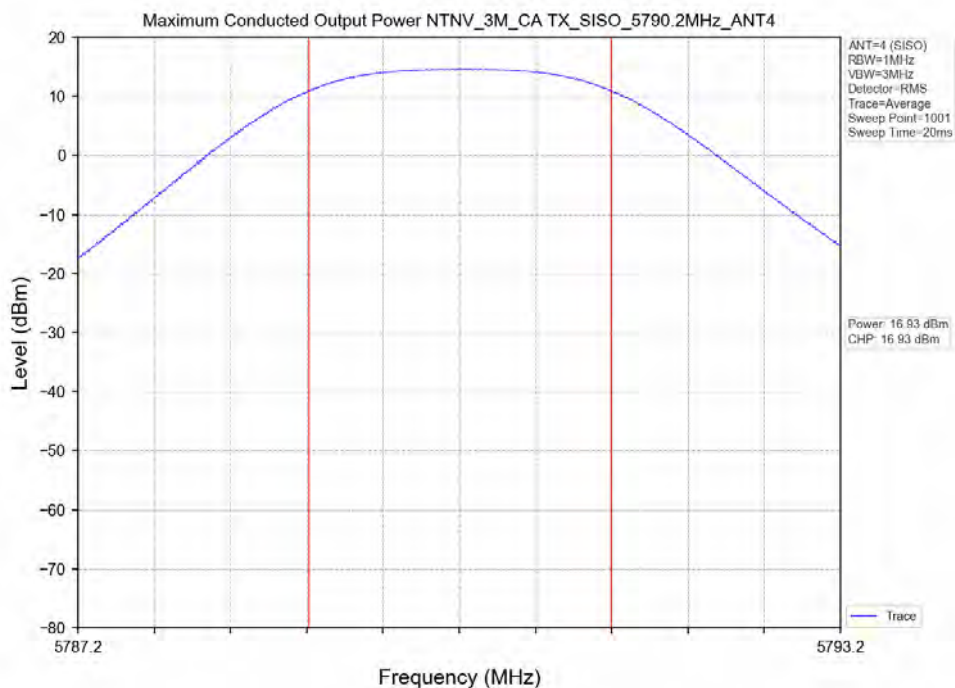


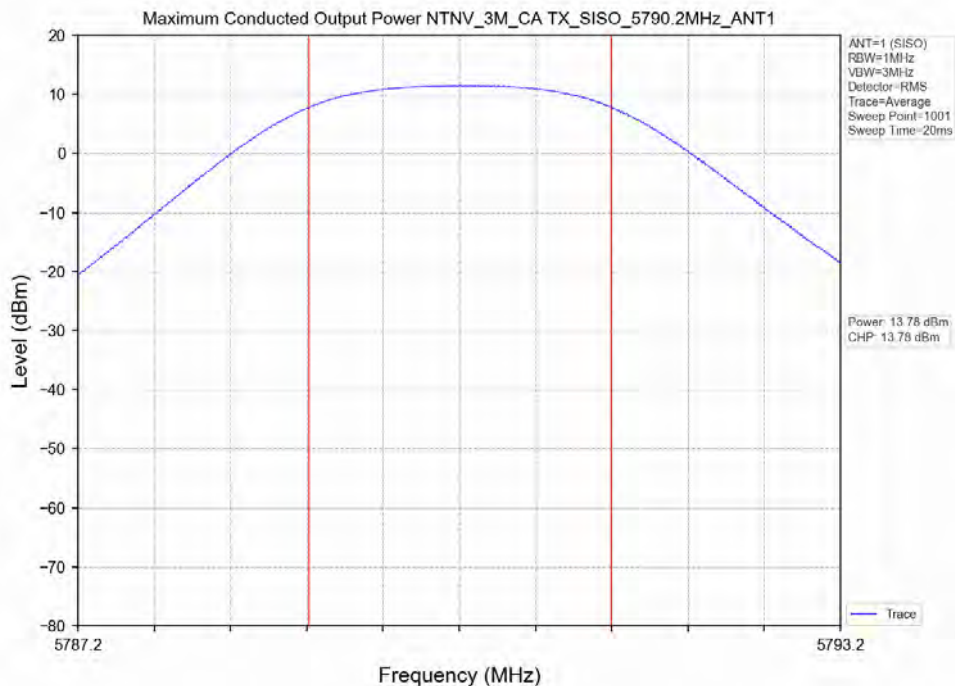
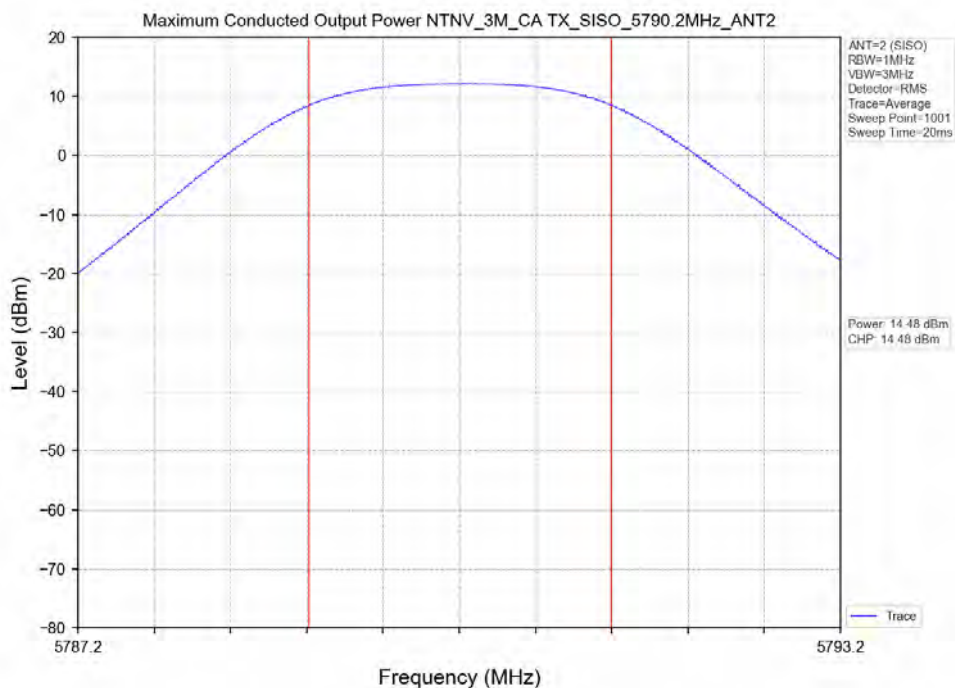


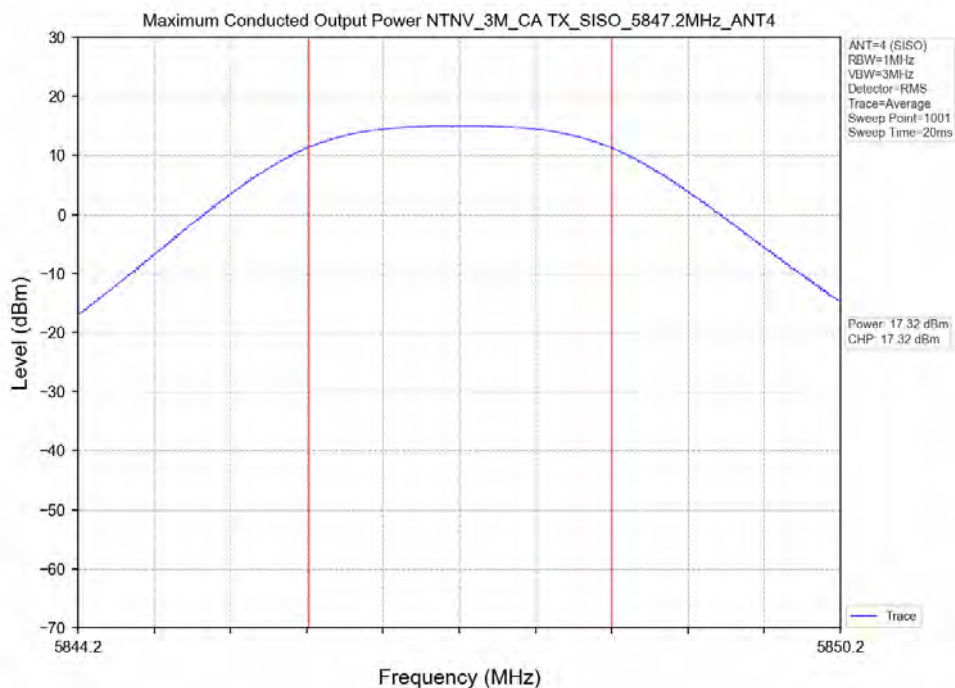


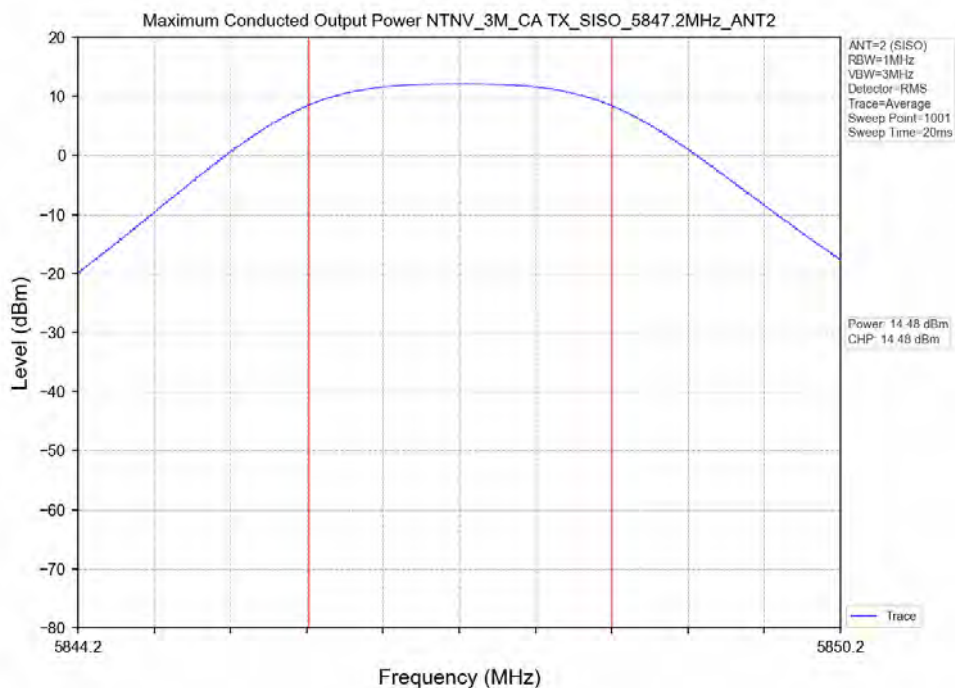














4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Verdict
-----------	-----------------	--	---------

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)				Limits (dBm/500kHz)	Verdict
			Ant 4	Ant 3	Ant 2	Ant 1		
1.4M TX	5728.5	SISO	14.61	14.01	11.98	11.41	≤30	PASS
	5786.5	SISO	14.73	14.20	12.77	12.12	≤30	PASS
	5846.5	SISO	15.22	14.81	12.84	12.91	≤30	PASS
1.4M_CA TX	5730.12	SISO	14.74	13.72	11.79	11.61	≤30	PASS
	5786.12	SISO	14.85	14.51	12.49	11.94	≤30	PASS
	5848.12	SISO	15.24	15.05	12.74	12.61	≤30	PASS
3M TX	5730.5	SISO	11.88	11.26	8.99	8.55	≤30	PASS
	5787.5	SISO	12.20	11.76	9.63	9.16	≤30	PASS
	5844.5	SISO	12.55	11.95	9.61	9.36	≤30	PASS
3M_CA TX	5733.2	SISO	11.88	11.18	8.96	8.52	≤30	PASS
	5790.2	SISO	12.16	11.58	9.66	9.06	≤30	PASS
	5847.2	SISO	12.48	11.76	9.68	9.32	≤30	PASS



4.2 Test Graph

