

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 1 of 293

TEST REPORT

Application No.: SZCR2406002498AT
Applicant: SZ DJI TECHNOLOGY CO., LTD
Address of Applicant: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China
Manufacturer: SZ DJI TECHNOLOGY CO., LTD
Address of Manufacturer: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: DJI Flip
Model No.: DF1A0424
Trade Mark: DJI
FCC ID: SS3-DF1A042424
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-06-28
Date of Test: 2024-08-19 to 2024-09-16
Date of Issue: 2024-09-19

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

Kenx Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (EMC Laboratory)

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 2 of 293

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-09-19		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Remark: KDB 789033 D02 is not accredited by A2LA



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
6.2 Transmission in the Absence of Data	13
6.2.1 Test Requirement:	13
6.2.2 Conclusion	13
7 Radio Spectrum Matter Test Results	14
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	14
7.1.1 E.U.T. Operation	14
7.1.2 Test Mode Description	14
7.1.3 Test Setup Diagram	15
7.1.4 Measurement Procedure and Data	15
7.2 Maximum Conducted output power	18
7.2.1 E.U.T. Operation	18
7.2.2 Test Mode Description	18
7.2.3 Test Setup Diagram	19
7.2.4 Measurement Procedure and Data	19
7.3 Radiated Emissions (Below 1GHz)	20
7.3.1 E.U.T. Operation	20
7.3.2 Test Mode Description	20
7.3.3 Test Setup Diagram	21
7.3.4 Measurement Procedure and Data	22
7.4 Radiated Emissions (Above 1GHz)	25
7.4.1 E.U.T. Operation	25
7.4.2 Test Mode Description	25
7.4.3 Test Setup Diagram	26



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 5 of 293

7.4.4	Measurement Procedure and Data.....	27
7.5	Radiated Emissions which fall in the restricted bands	40
7.5.1	E.U.T. Operation	40
7.5.2	Test Mode Description	41
7.5.3	Test Setup Diagram	41
7.5.4	Measurement Procedure and Data.....	42
7.6	Duty Cycle	87
7.6.1	E.U.T. Operation	87
7.6.2	Test Mode Description	87
7.6.3	Test Setup Diagram	87
7.6.4	Measurement Procedure and Data.....	87
7.7	99% Bandwidth	88
7.7.1	E.U.T. Operation	88
7.7.2	Test Mode Description	88
7.7.3	Test Setup Diagram	88
7.7.4	Measurement Procedure and Data.....	88
7.8	26dB Emission bandwidth	89
7.8.1	E.U.T. Operation	89
7.8.2	Test Mode Description	89
7.8.3	Test Setup Diagram	89
7.8.4	Measurement Procedure and Data.....	89
7.9	Minimum 6 dB bandwidth (5.725-5.85 GHz band)	90
7.9.1	E.U.T. Operation	90
7.9.2	Test Mode Description	90
7.9.3	Test Setup Diagram	91
7.9.4	Measurement Procedure and Data.....	91
7.10	Peak Power spectrum density.....	92
7.10.1	E.U.T. Operation.....	92
7.10.2	Test Mode Description.....	92
7.10.3	Test Setup Diagram.....	93
7.10.4	Measurement Procedure and Data	93
7.11	Frequency Stability	94
7.11.1	E.U.T. Operation.....	94
7.11.2	Test Mode Description.....	94
7.11.3	Test Setup Diagram.....	94
7.11.4	Measurement Procedure and Data	94
8	Test Setup Photo	95
9	EUT Constructional Details (EUT Photos)	95
10	Appendix.....	96



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium Ion Rechargeable Battery. Battery information Model: BWX141-3110-7.16 Nominal voltage: 7.16V
Operation Frequency:	5.1G SDR 10MHz: 5157MHz-5245MHz 20MHz: 5161MHz-5240MHz 40MHz: 5170MHz-5230MHz 5.8G SDR 10MHz: 5730.5MHz-5844.5MHz 20MHz: 5735.5MHz-5839.5MHz 40MHz: 5745.5MHz-5829.5MHz 60MHz: 5755.5MHz-5819.5MHz 80MHz: 5765.5MHz-5809.5MHz
Modulation Type:	OFDM
Channel Spacing:	5.1G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 5.8G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Number of Channels:	5.1G SDR 10MHz: 89 20MHz: 80 40MHz: 61 5.8G SDR 10MHz: 115 20MHz: 105 40MHz: 85 60MHz: 65 80MHz: 45



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 7 of 293

Antenna Type:	PIFA
Antenna Gain:	5.1G SDR: ANT0: 0.35dBi, ANT1: 0.66dBi, ANT2: 0.49dBi, ANT3: 0.09dBi 5.8G SDR: ANT0: 2.00dBi, ANT1: 2.00dBi, ANT2: 2.10dBi, ANT3: 1.90dBi
Cable Loss (for RF conducted test):	5.1G: 1.4dB 5.8G: 1.9dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	DJI	QC24-CN	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI 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.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 8 of 293

4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 10 of 293

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 11 of 293

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, 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 following:

Band	Antenna Gain (dBi)			
	ANT0	ANT1	ANT2	ANT3
5.1G SDR	0.35	0.66	0.49	0.09
5.8G SDR	2.00	2.00	2.10	1.90

Antenna combination (MIMO mode)	Directional Gain (dBi)	
	5.1G SDR	5.8G SDR
ANT0 & ANT1	3.67	5.01
ANT0 & ANT3	3.36	5.01
ANT2 & ANT1	3.67	5.11
ANT2 & ANT3	3.50	5.11

Antenna location: Refer to internal photo.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details: SDR 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.



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 45.5 % RH

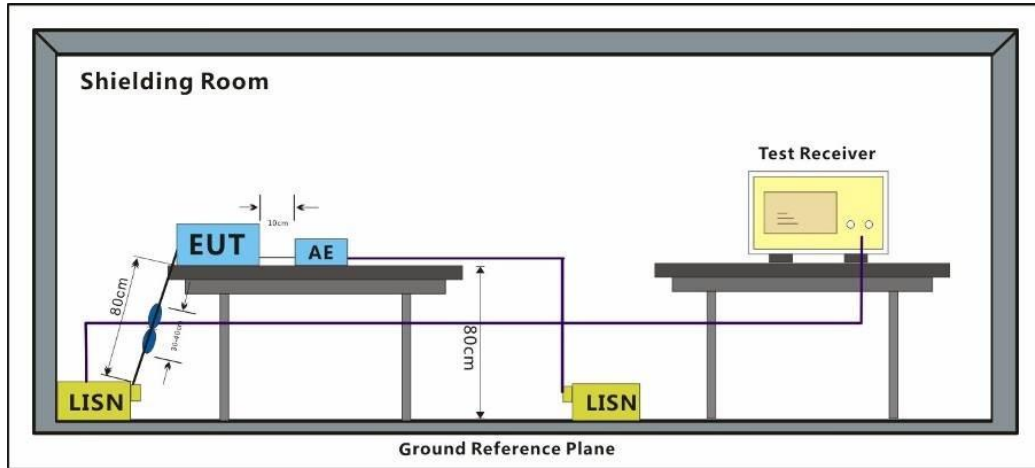
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Charge+TX mode (5.1G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	19	Charge+TX mode (5.1G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Final test	21	Charge+TX mode (5.8G SDR_10MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	23	Charge+TX mode (5.8G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	25	Charge+TX mode (5.8G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	27	Charge+TX mode (5.8G SDR_60MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	29	Charge+TX mode (5.8G SDR_80MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	36	Charge+TX mode (5.1G SDR_10MHz)_Keep the EUT in charging and transmitting mode.



7.1.3 Test Setup Diagram



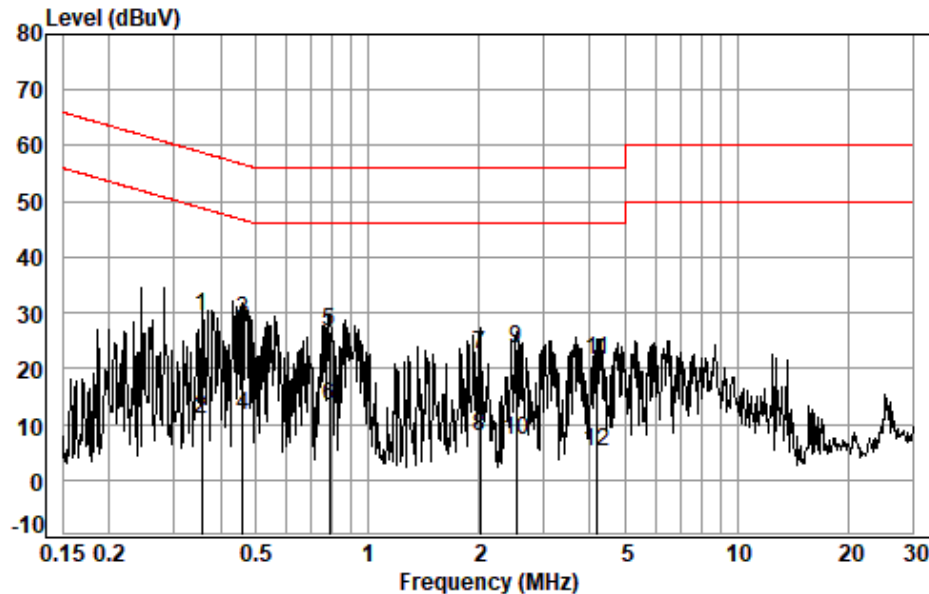
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



Test Mode: 21; Line: Live line



Site : Shielding Room

Condition: Line

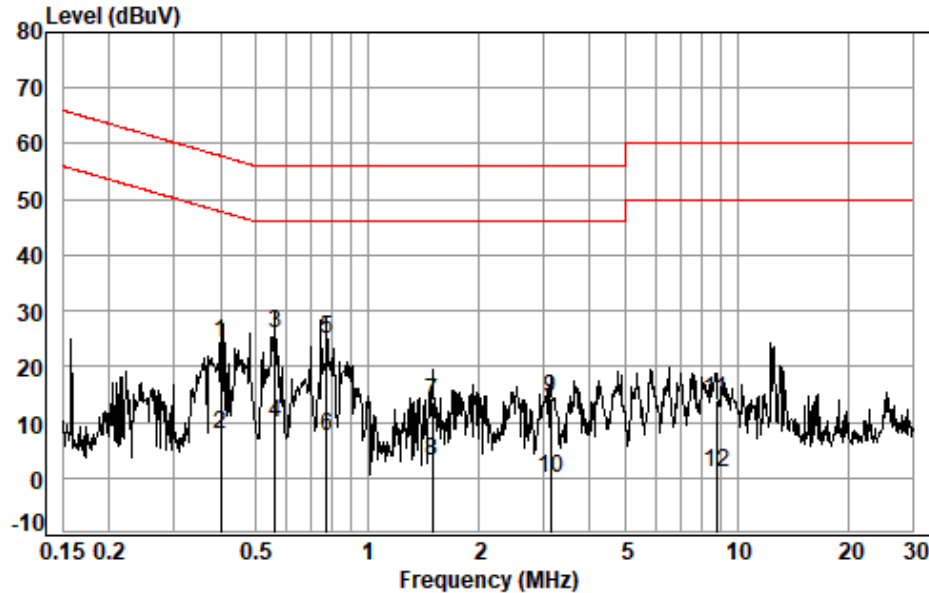
Job No. : 02498AT

Test mode: 21

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.3558	0.03	10.03	19.43	29.49	58.83	-29.34	QP
2	0.3558	0.03	10.03	0.98	11.04	48.83	-37.79	Average
3 *	0.4588	0.04	10.00	18.54	28.58	56.71	-28.13	QP
4	0.4588	0.04	10.00	1.43	11.47	46.71	-35.24	Average
5	0.7876	0.05	10.03	16.44	26.52	56.00	-29.48	QP
6 *	0.7876	0.05	10.03	3.10	13.18	46.00	-32.82	Average
7	2.0225	0.07	10.01	12.35	22.43	56.00	-33.57	QP
8	2.0225	0.07	10.01	-2.34	7.74	46.00	-38.26	Average
9	2.5266	0.07	10.02	13.31	23.40	56.00	-32.60	QP
10	2.5266	0.07	10.02	-3.15	6.94	46.00	-39.06	Average
11	4.1796	0.08	10.02	11.42	21.52	56.00	-34.48	QP
12	4.1796	0.08	10.02	-4.88	5.22	46.00	-40.78	Average



Test Mode: 21; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 02498AT
Test mode: 21

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.4019	0.03	9.92	14.38	24.33	57.81	-33.48	QP
2	0.4019	0.03	9.92	-2.07	7.88	47.81	-39.93	Average
3 *	0.5611	0.04	9.96	16.02	26.02	56.00	-29.98	QP
4 *	0.5611	0.04	9.96	-0.09	9.91	46.00	-36.09	Average
5	0.7752	0.05	9.95	14.75	24.75	56.00	-31.25	QP
6	0.7752	0.05	9.95	-2.59	7.41	46.00	-38.59	Average
7	1.4953	0.06	9.95	3.71	13.72	56.00	-42.28	QP
8	1.4953	0.06	9.95	-6.98	3.03	46.00	-42.97	Average
9	3.1231	0.08	9.97	4.31	14.36	56.00	-41.64	QP
10	3.1231	0.08	9.97	-10.15	-0.10	46.00	-46.10	Average
11	8.7757	0.15	10.21	3.72	14.08	60.00	-45.92	QP
12	8.7757	0.15	10.21	-9.58	0.78	50.00	-49.22	Average



7.2 Maximum Conducted output power

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

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) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 43.1 % RH

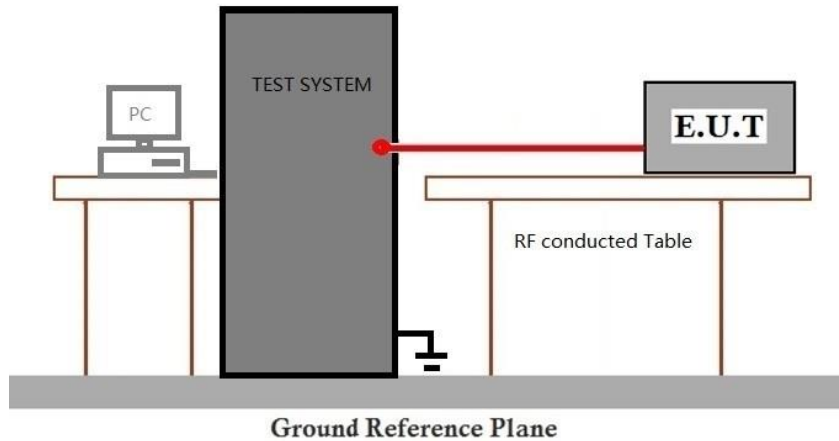
Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.



7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



7.3 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Pre-scan	17	Charge+TX mode (5.1G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Pre-scan	19	Charge+TX mode (5.1G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	21	Charge+TX mode (5.8G SDR_10MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Pre-scan	23	Charge+TX mode (5.8G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Pre-scan	25	Charge+TX mode (5.8G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.



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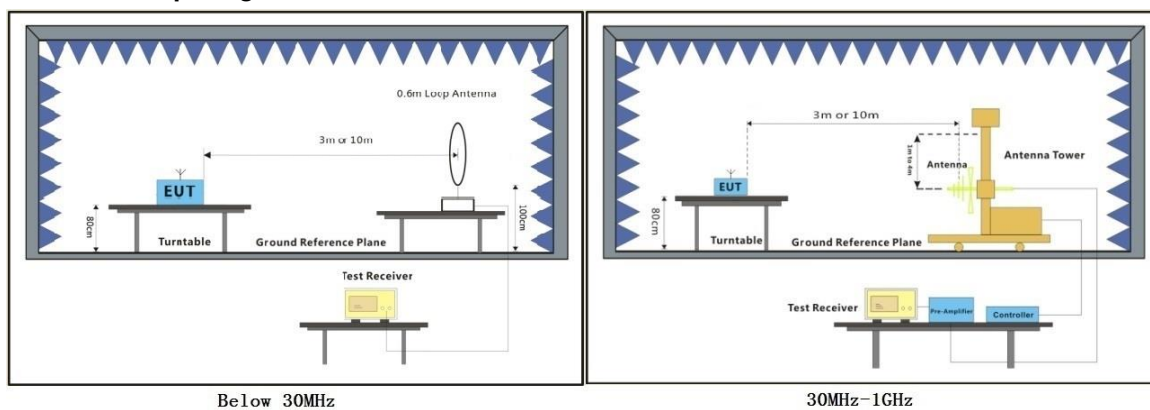
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Pre-scan	27	Charge+TX mode (5.8G SDR_60MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Pre-scan	29	Charge+TX mode (5.8G SDR_80MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.
Pre-scan	36	Charge+TX mode (5.1G SDR_10MHz)_Keep the EUT in charging and transmitting mode.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

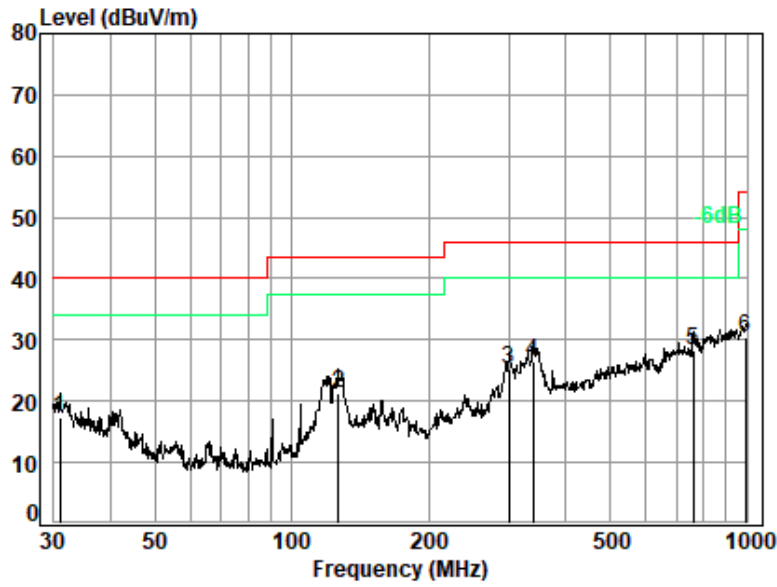
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. 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 30MHz, the disturbance 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. 5.8G 10MHz bandwidth is the worst mode for 5G SDR, only the worst mode test data were recorded in this report.



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



Site : chamber

Condition: 3m HORIZONTAL

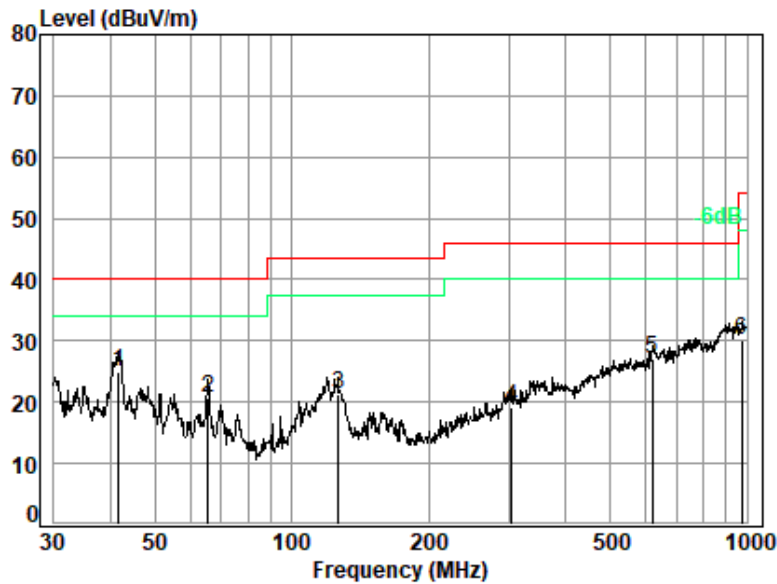
Job No. : 02498AT/02499AT

Test Mode: 21

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	20.76	0.65	27.79	23.66	17.28	40.00	-22.72 QP
2	126.33	10.98	1.33	27.48	36.39	21.22	43.50	-22.28 QP
3	300.37	18.05	2.17	26.75	31.65	25.12	46.00	-20.88 QP
4	338.40	18.98	2.32	26.91	31.98	26.37	46.00	-19.63 QP
5 q	760.70	26.47	3.70	27.58	25.64	28.23	46.00	-17.77 QP
6	993.01	28.12	4.33	26.10	24.11	30.46	54.00	-23.54 QP



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Middle



Site : chamber
Condition: 3m VERTICAL
Job No. : 02498AT/02499AT
Test Mode: 21

	Ant	Cable	Preamp	Read	Limit	Over		
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	41.71	15.55	0.76	27.76	36.51	25.06	40.00	-14.94 QP
2	65.57	10.97	0.96	27.69	36.35	20.59	40.00	-19.41 QP
3	126.33	10.98	1.33	27.48	36.31	21.14	43.50	-22.36 QP
4	303.54	18.30	2.18	26.76	25.44	19.16	46.00	-26.84 QP
5	618.54	25.03	3.27	27.92	26.67	27.05	46.00	-18.95 QP
6	975.75	28.06	4.29	26.22	24.09	30.22	54.00	-23.78 QP



7.4 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	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.		

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

Humidity: 67.0 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.



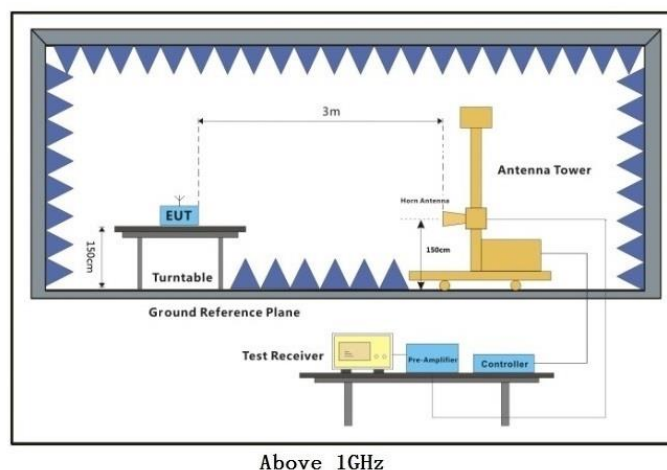
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Pre-scan	17	Charge+TX mode (5.1G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	19	Charge+TX mode (5.1G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	21	Charge+TX mode (5.8G SDR_10MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Pre-scan	23	Charge+TX mode (5.8G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Pre-scan	25	Charge+TX mode (5.8G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Pre-scan	27	Charge+TX mode (5.8G SDR_60MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Pre-scan	29	Charge+TX mode (5.8G SDR_80MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.
Pre-scan	36	Charge+TX mode (5.1G SDR_10MHz)_Keep the EUT in charging and transmitting mode.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

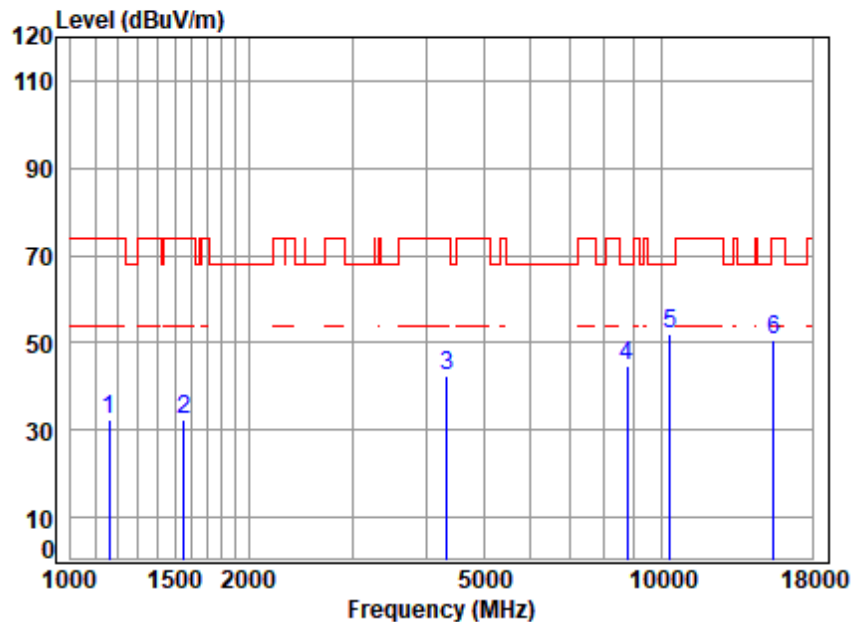
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz 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.
3. 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.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. 40MHz bandwidth is the worst mode for 5.1G SDR, 10MHz bandwidth is the worst mode for 5.8G SDR, only the worst mode test data were recorded in this report.



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: Low

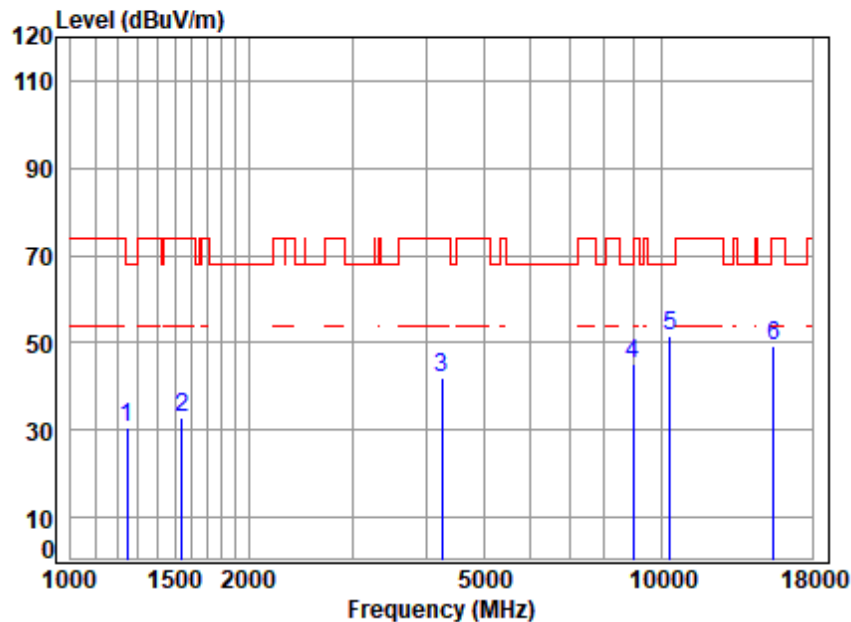


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5170 TX RSE
Note : 5G 40M SDR

	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	1162.182	3.63	24.02	61.54	66.46	32.57	74.00	-41.43	peak
2	1556.169	4.12	26.98	61.67	63.09	32.52	74.00	-41.48	peak
3	4341.886	7.07	34.34	61.49	62.55	42.47	74.00	-31.53	peak
4	8738.852	9.72	36.90	61.89	59.99	44.72	68.20	-23.48	peak
5	10340.000	11.11	37.10	62.35	66.20	52.06	68.20	-16.14	peak
6	15510.000	13.75	41.10	62.88	58.60	50.57	74.00	-23.43	peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: Low

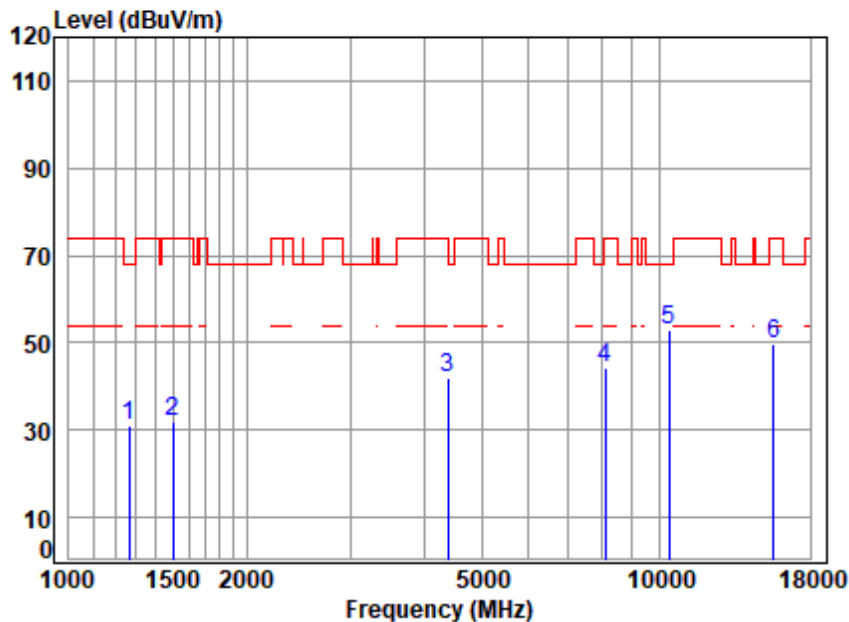


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5170 TX RSE
Note : 5G 40M SDR

	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	1245.663	3.74	25.04	61.57	63.20	30.41	68.20	-37.79	peak
2	1542.733	4.10	26.97	61.67	63.41	32.81	74.00	-41.19	peak
3	4242.641	6.95	33.80	61.40	62.46	41.81	74.00	-32.19	peak
4	8943.274	9.88	37.03	61.95	60.20	45.16	68.20	-23.04	peak
5	10340.000	11.11	37.10	62.35	65.77	51.63	68.20	-16.57	peak
6	15510.000	13.75	41.10	62.88	57.18	49.15	74.00	-24.85	peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: Middle

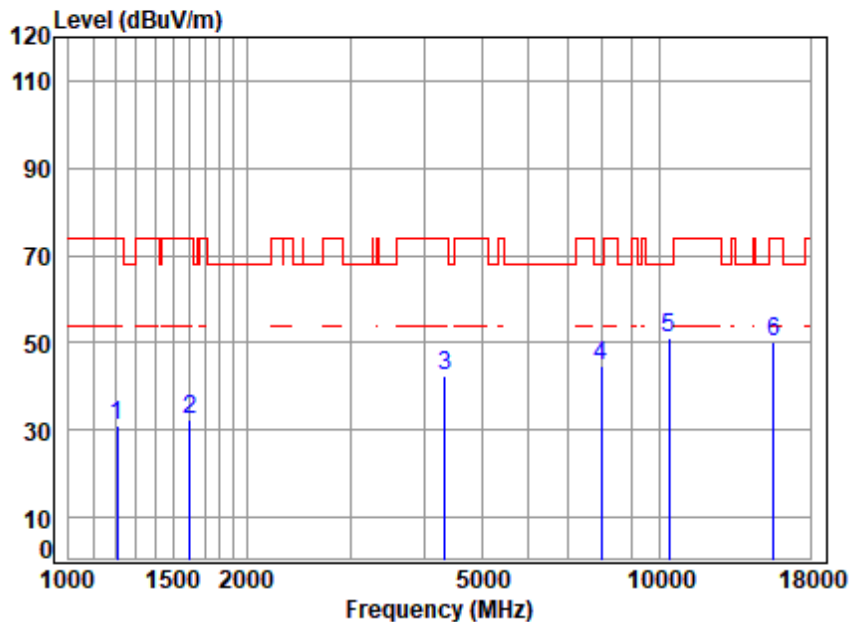


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5200 TX RSE
Note : 5G 40M SDR

	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	1263.796	3.77	25.02	61.58	63.97	31.18	68.20	-37.02	peak
2	1498.781	4.04	26.77	61.66	62.90	32.05	74.00	-41.95	peak
3	4379.699	7.11	34.64	61.52	61.78	42.01	74.00	-31.99	peak
4	8106.200	9.14	36.50	61.68	60.46	44.42	74.00	-29.58	peak
5	10400.000	11.20	37.10	62.36	66.84	52.78	68.20	-15.42	peak
6	15600.000	13.86	41.10	62.89	57.72	49.79	74.00	-24.21	peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: Middle

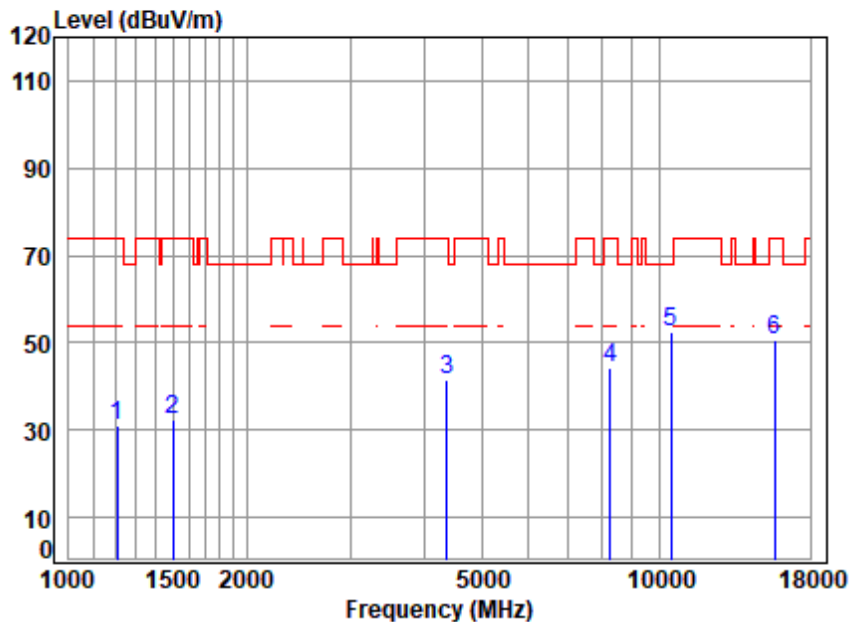


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5200 TX RSE
Note : 5G 40M SDR

	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	1206.682	3.69	24.49	61.56	64.33	30.95	74.00	-43.05	peak
2	1601.804	4.19	26.78	61.69	62.98	32.26	74.00	-41.74	peak
3	4341.886	7.07	34.34	61.49	62.71	42.63	74.00	-31.37	peak
4	7966.832	8.99	36.40	61.66	61.17	44.90	68.20	-23.30	peak
5	10400.000	11.20	37.10	62.36	65.34	51.28	68.20	-16.92	peak
6	15600.000	13.86	41.10	62.89	58.05	50.12	74.00	-23.88	peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: High

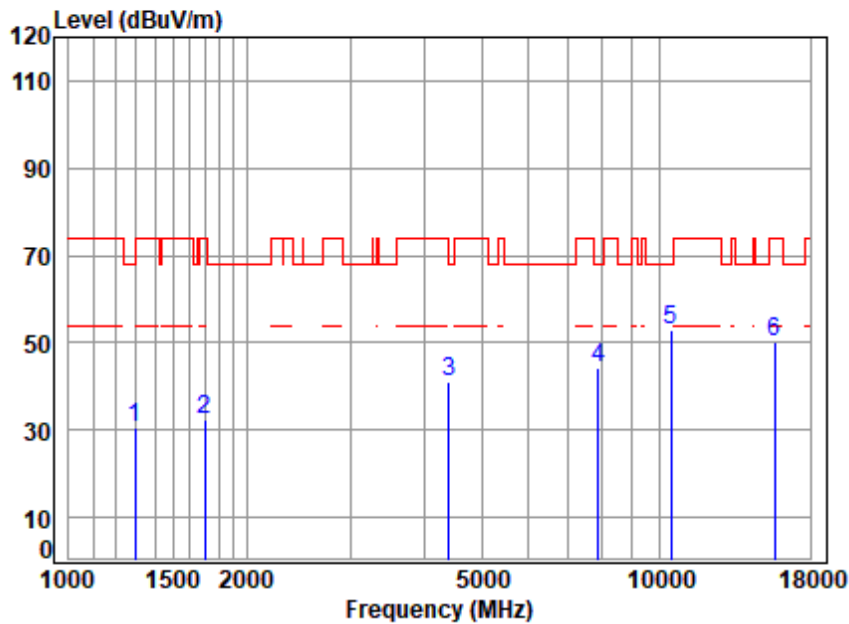


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5230 TX RSE
Note : 5G 40M SDR

	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	1206.682	3.69	24.49	61.56	64.39	31.01	74.00	-42.99	peak
2	1503.119	4.04	26.81	61.66	63.22	32.41	74.00	-41.59	peak
3	4367.058	7.10	34.54	61.51	61.58	41.71	74.00	-32.29	peak
4	8248.005	9.28	36.70	61.72	60.20	44.46	74.00	-29.54	peak
5	10460.000	11.30	37.22	62.38	66.17	52.31	68.20	-15.89	peak
6	15690.000	13.97	41.19	62.91	58.33	50.58	74.00	-23.42	peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: High

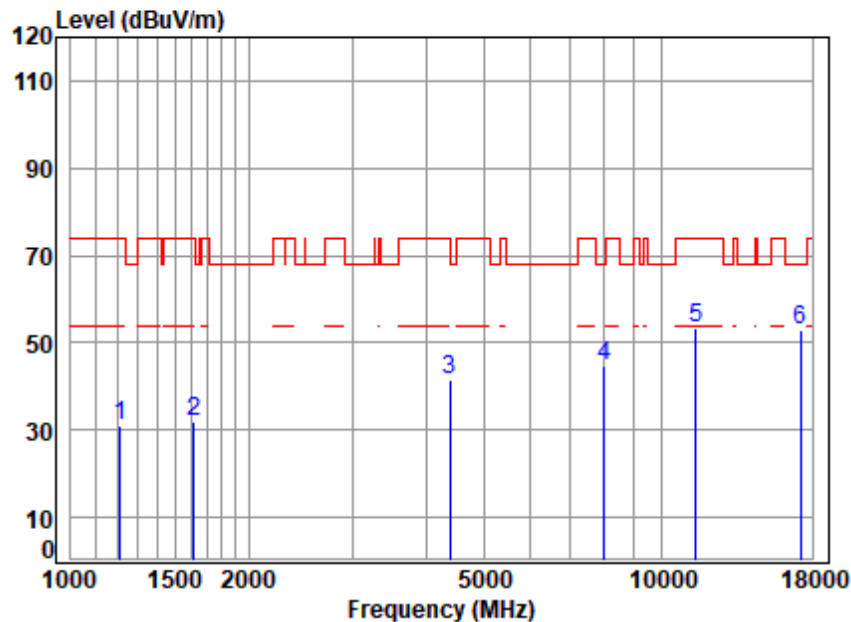


Site : chamber
 Condition: 3m VERTICAL
 Job No : 02498AT\02499AT
 Mode : 5230 TX RSE
 Note : 5G 40M SDR

	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	1293.359	3.80	24.84	61.59	63.53	30.58	68.20	-37.62	peak
2	1702.042	4.33	26.22	61.72	63.37	32.20	74.00	-41.80	peak
3	4405.090	7.14	34.74	61.55	60.74	41.07	68.20	-27.13	peak
4	7875.254	8.88	36.45	61.70	60.83	44.46	68.20	-23.74	peak
5	10460.000	11.30	37.22	62.38	66.57	52.71	68.20	-15.49	peak
6	15690.000	13.97	41.19	62.91	58.08	50.33	74.00	-23.67	peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Low

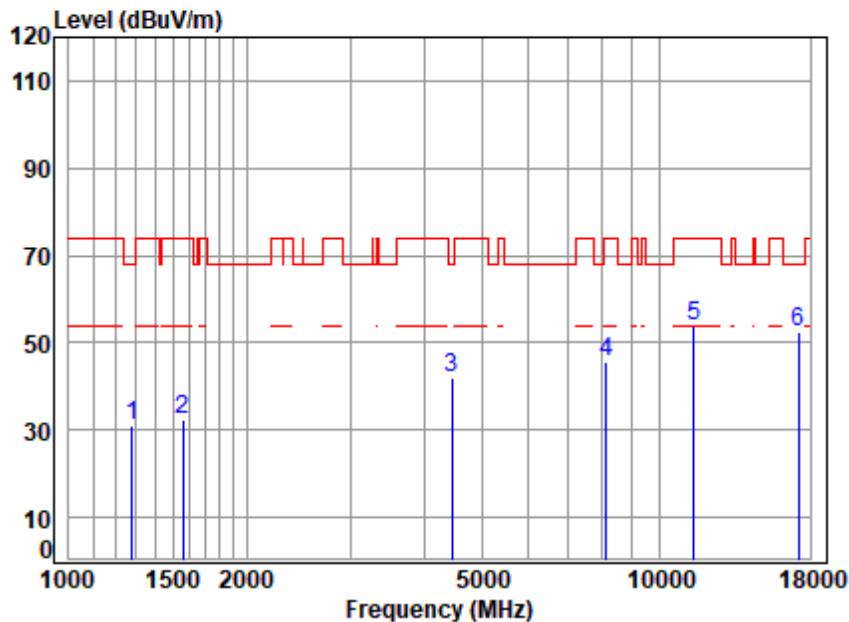


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02498AT\02499AT
 Mode : 5730.5 TX RSE
 Note : 5G 10M SDR

	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	1213.677	3.70	24.59	61.56	64.15	30.88	74.00	-43.12	peak
2	1615.754	4.21	26.64	61.69	62.70	31.86	74.00	-42.14	peak
3	4379.699	7.11	34.64	61.52	61.39	41.62	74.00	-32.38	peak
4	8013.020	9.04	36.40	61.64	60.93	44.73	68.20	-23.47	peak
5	11461.000	11.93	37.76	62.61	66.49	53.57	74.00	-20.43	peak
6	17191.500	14.54	43.01	61.70	57.20	53.05	68.20	-15.15	peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Low

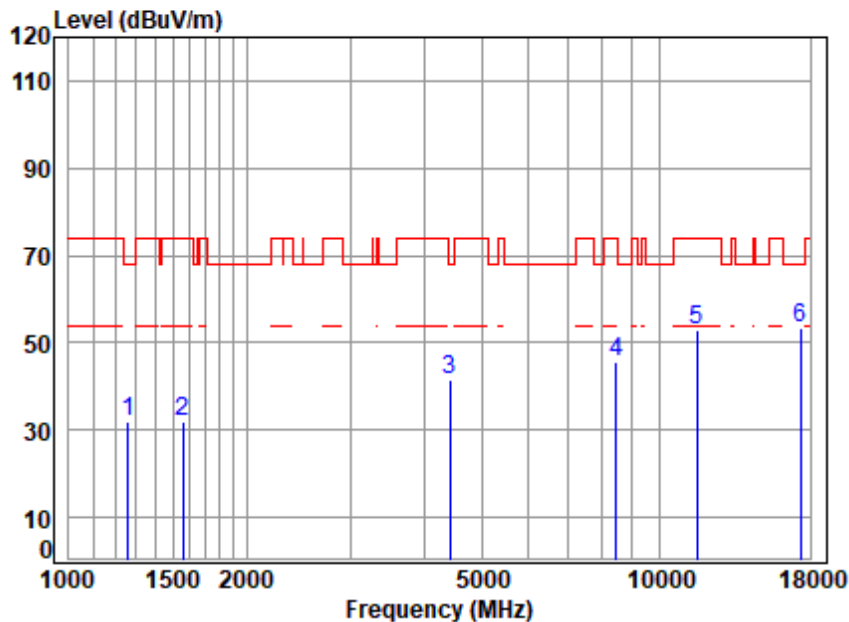


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5730.5 TX RSE
Note : 5G 10M SDR

	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	1278.492	3.78	24.93	61.58	63.81	30.94	68.20	-37.26	peak
2	1560.673	4.13	26.96	61.68	62.96	32.37	74.00	-41.63	peak
3	4456.315	7.20	34.12	61.59	62.06	41.79	68.20	-26.41	peak
4	8129.664	9.16	36.50	61.68	61.79	45.77	74.00	-28.23	peak
5	11461.000	11.93	37.76	62.61	66.78	53.86	74.00	-20.14	peak
6	17191.500	14.54	43.01	61.70	56.55	52.40	68.20	-15.80	peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Middle

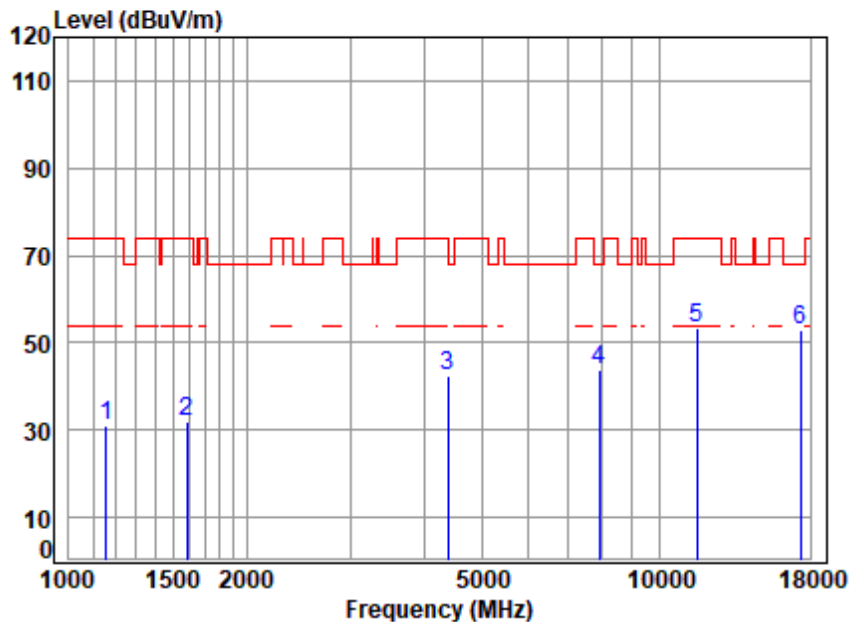


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5787.5 TX RSE
Note : 5G 10M SDR

	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	1260.149	3.76	25.04	61.58	64.85	32.07	68.20	-36.13	peak
2	1560.673	4.13	26.96	61.68	62.43	31.84	74.00	-42.16	peak
3	4417.841	7.16	34.59	61.56	61.20	41.39	68.20	-26.81	peak
4	8465.379	9.50	36.63	61.80	61.08	45.41	74.00	-28.59	peak
5	11575.000	11.95	37.72	62.64	66.08	53.11	74.00	-20.89	peak
6	p17362.500	14.73	43.29	61.52	57.05	53.55	68.20	-14.65	peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Middle

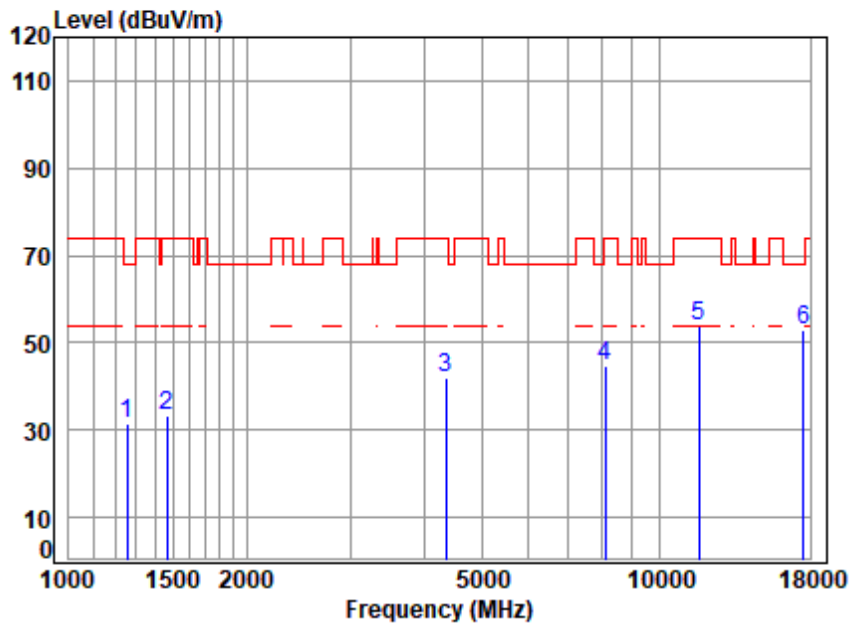


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5787.5 TX RSE
Note : 5G 10M SDR

	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	1158.828	3.63	23.99	61.54	64.76	30.84	74.00	-43.16	peak
2	1587.975	4.17	26.85	61.68	62.75	32.09	74.00	-41.91	peak
3	4379.699	7.11	34.64	61.52	62.30	42.53	74.00	-31.47	peak
4	7920.911	8.93	36.46	61.68	60.29	44.00	68.20	-24.20	peak
5	11575.000	11.95	37.72	62.64	66.46	53.49	74.00	-20.51	peak
6	17362.500	14.73	43.29	61.52	56.57	53.07	68.20	-15.13	peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: High

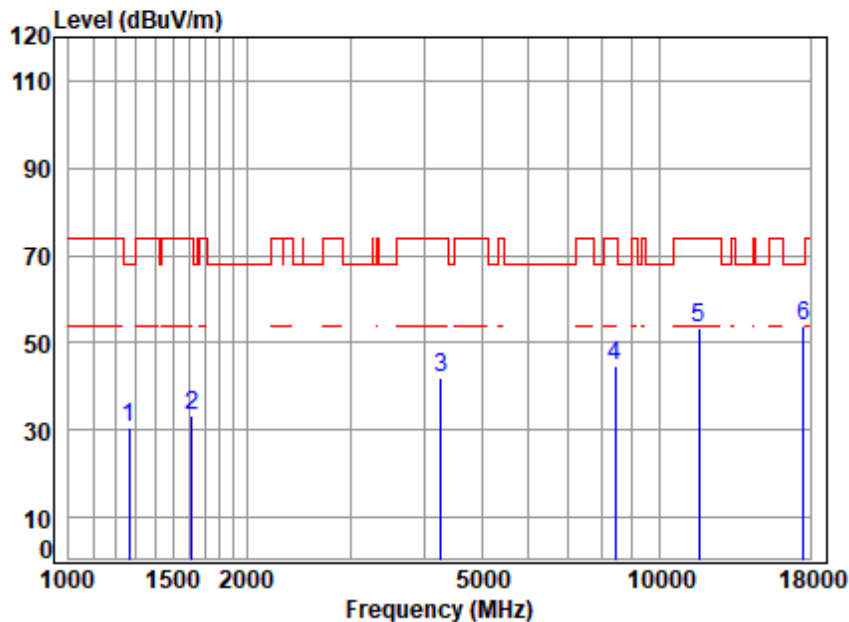


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5844.5 TX RSE
Note : 5G 10M SDR

	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	1256.512	3.76	25.06	61.58	64.10	31.34	68.20	-36.86	peak
2	1464.522	4.00	25.81	61.65	65.00	33.16	74.00	-40.84	peak
3	4354.454	7.08	34.44	61.50	62.17	42.19	74.00	-31.81	peak
4	8106.200	9.14	36.50	61.68	60.80	44.76	74.00	-29.24	peak
5	11689.000	11.95	37.88	62.66	66.44	53.61	74.00	-20.39	peak
6	p17533.500	14.93	43.47	61.35	55.92	52.97	68.20	-15.23	peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5844.5 TX RSE
Note : 5G 10M SDR

	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	1267.454	3.77	25.00	61.58	63.25	30.44	68.20	-37.76	peak
2	1615.754	4.21	26.64	61.69	64.22	33.38	74.00	-40.62	peak
3	4267.237	6.98	33.87	61.42	62.71	42.14	74.00	-31.86	peak
4	8416.584	9.45	36.67	61.78	60.22	44.56	74.00	-29.44	peak
5	11689.000	11.95	37.88	62.66	66.02	53.19	74.00	-20.81	peak
6	p17533.500	14.93	43.47	61.35	56.63	53.68	68.20	-14.52	peak



7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

Humidity: 67.1 % RH

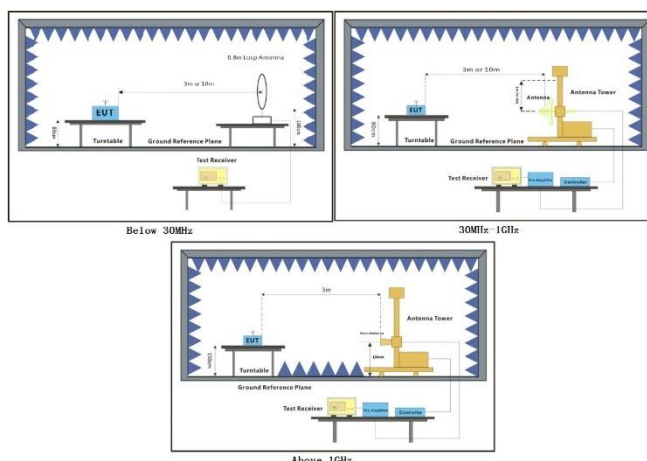
Atmospheric Pressure: 1020 mbar



7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	17	Charge+TX mode (5.1G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	19	Charge+TX mode (5.1G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	21	Charge+TX mode (5.8G SDR_10MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	23	Charge+TX mode (5.8G SDR_20MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	25	Charge+TX mode (5.8G SDR_40MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	27	Charge+TX mode (5.8G SDR_60MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	29	Charge+TX mode (5.8G SDR_80MHz)_Keep the EUT in charging and transmitting mode.
Pre-scan	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	36	Charge+TX mode (5.1G SDR_10MHz)_Keep the EUT in charging and transmitting mode.

7.5.3 Test Setup Diagram



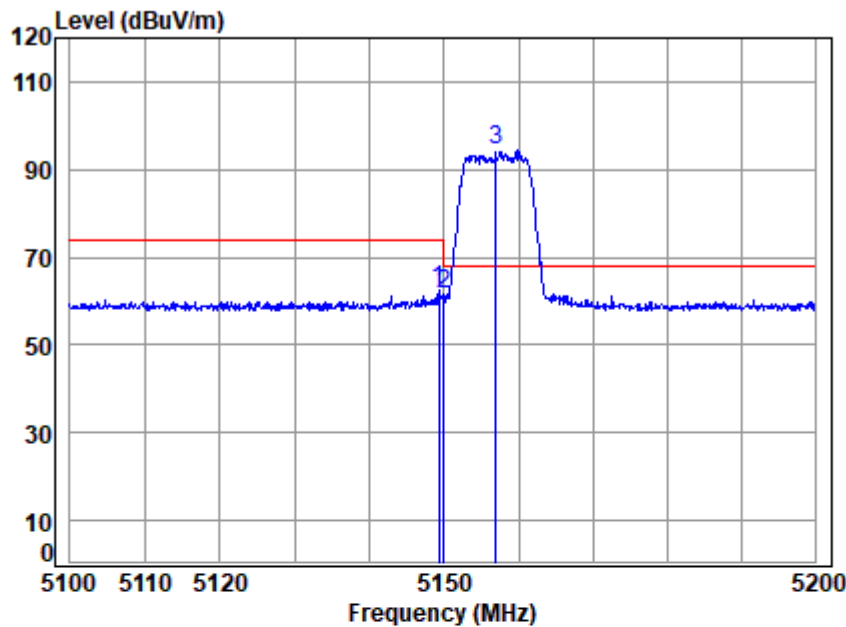
7.5.4 Measurement Procedure and Data

- 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



Test Mode: 36; Polarity: Horizontal; Modulation: OFDM; Channel: Low

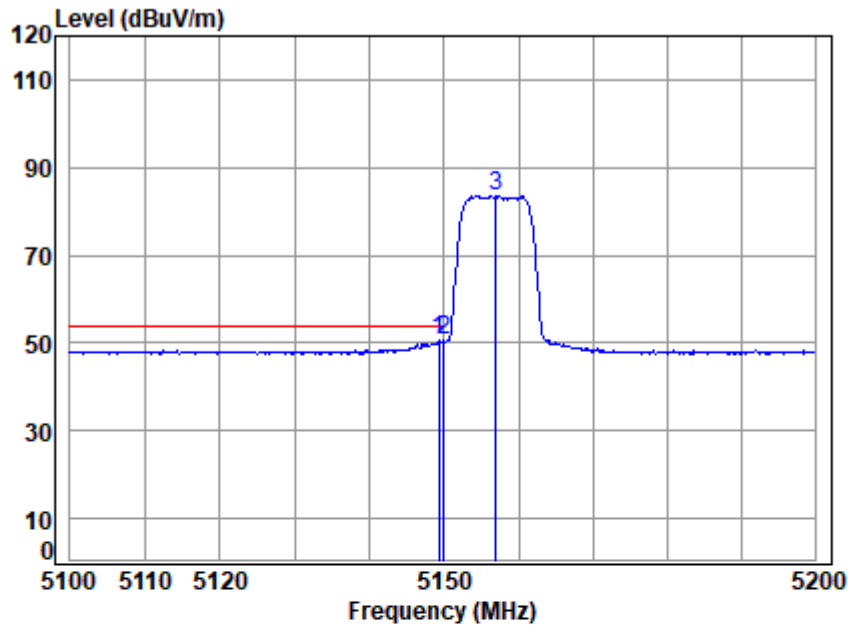


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5157 Band edge
: 5G SDR 10M

		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	5149.257	18.83	33.90	35.31	44.93	62.35	74.00	-11.65	peak
2	5149.980	18.83	33.90	35.31	44.30	61.72	74.00	-12.28	peak
3 p	5157.000	18.84	33.91	35.31	77.11	94.55	68.20	26.35	peak



Test Mode: 36; Polarity: Horizontal; Modulation: OFDM; Channel: Low

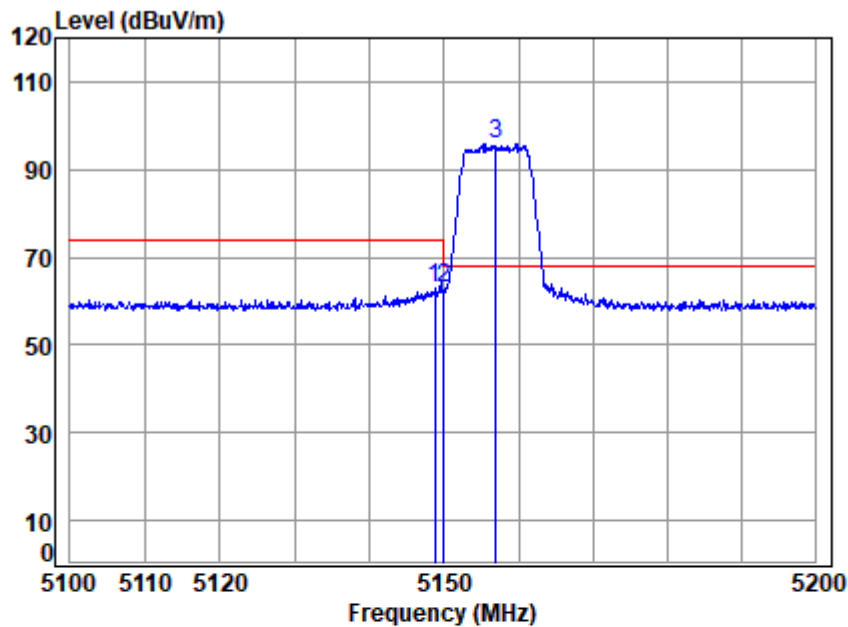


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5157 Band edge
: 5G SDR 10M

		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	5149.257	18.83	33.90	35.31	33.07	50.49	54.00	-3.51	Average
2	5149.980	18.83	33.90	35.31	33.13	50.55	54.00	-3.45	Average
3	5157.000	18.84	33.91	35.31	66.21	83.65	-----	-----	Average



Test Mode: 36; Polarity: Vertical; Modulation: OFDM; Channel: Low

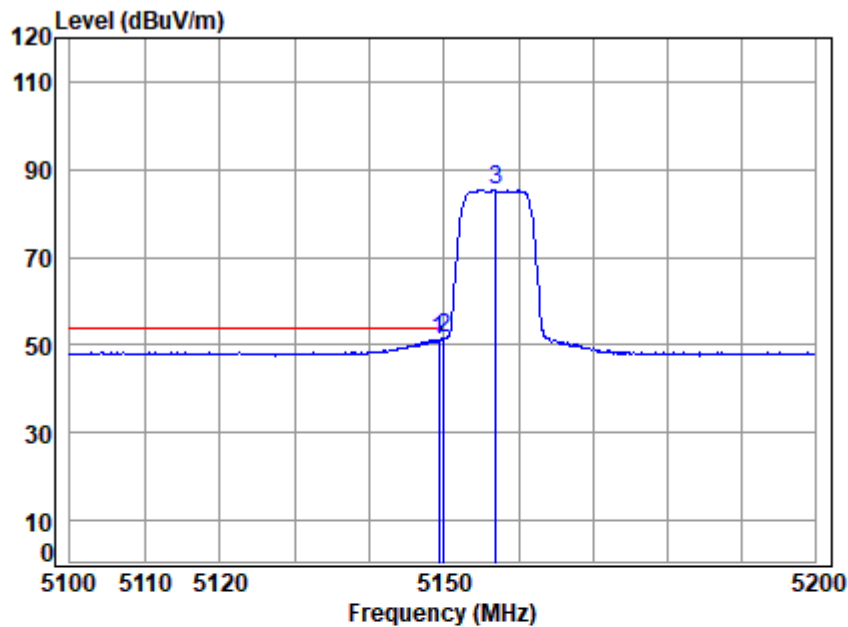


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5157 Band edge
: 5G SDR 10M

		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	5148.757	18.83	33.90	35.31	45.58	63.00	74.00	-11.00	Peak
2	5149.980	18.83	33.90	35.31	45.66	63.08	74.00	-10.92	Peak
3 p	5157.000	18.84	33.91	35.31	78.37	95.81	68.20	27.61	Peak



Test Mode: 36; Polarity: Vertical; Modulation: OFDM; Channel: Low

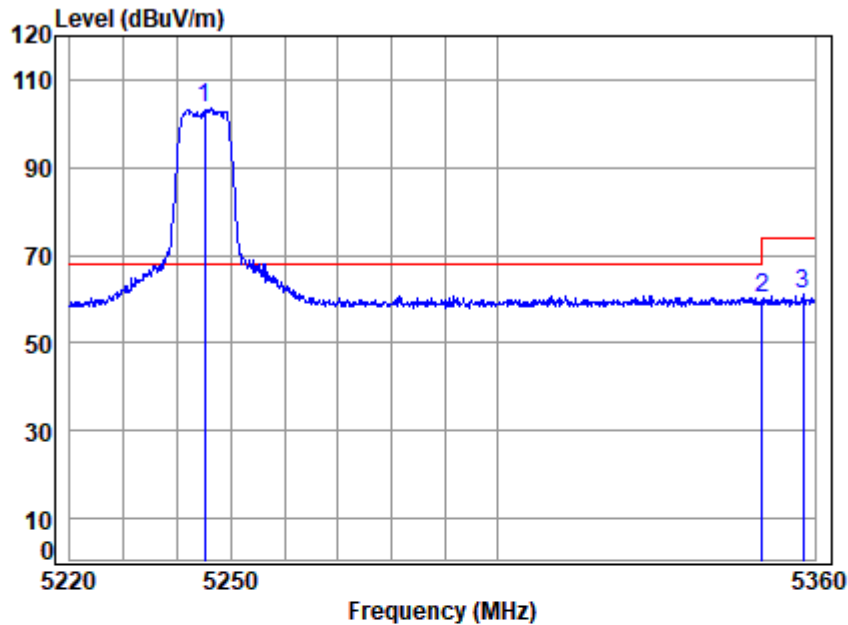


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5157 Band edge
: 5G SDR 10M

		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	5149.257	18.83	33.90	35.31	33.82	51.24	54.00	-2.76	Average
2	5149.980	18.83	33.90	35.31	34.27	51.69	54.00	-2.31	Average
3	5157.000	18.84	33.91	35.31	67.86	85.30	-----	-----	Average



Test Mode: 36; Polarity: Horizontal; Modulation: OFDM; Channel: High

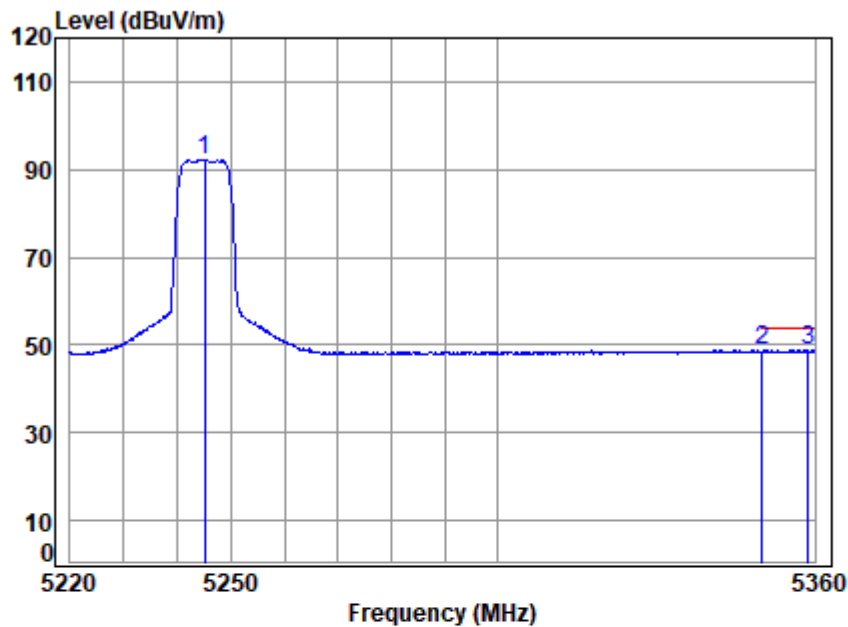


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5245 Band edge
: 5G SDR 10M

		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 p 5245.000		18.97	34.09	35.26	85.72	103.52	68.20	35.32	peak
2 5350.020		19.11	34.40	35.21	41.87	60.17	74.00	-13.83	peak
3 5357.730		19.12	34.43	35.20	42.61	60.96	74.00	-13.04	peak



Test Mode: 36; Polarity: Horizontal; Modulation: OFDM; Channel: High

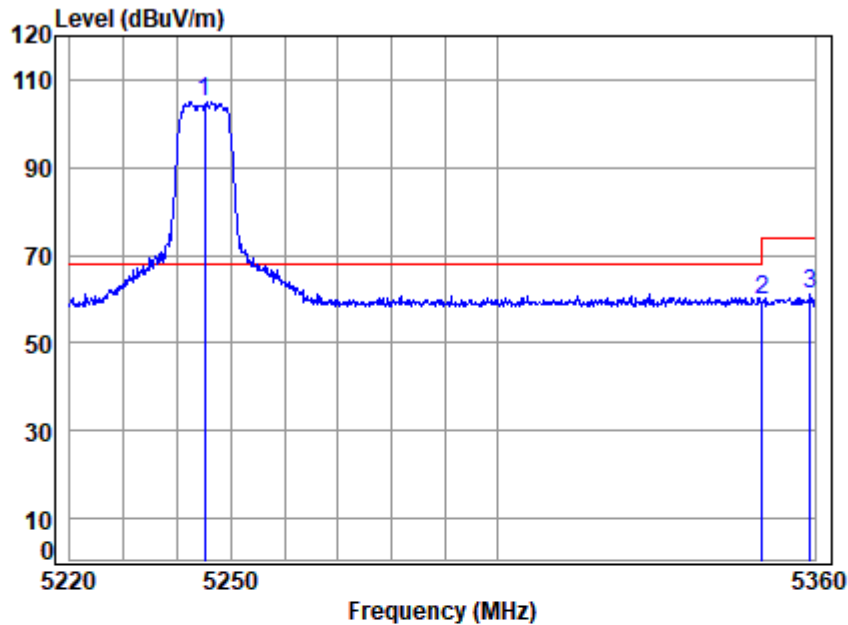


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5245 Band edge
: 5G SDR 10M

	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	5245.000	18.97	34.09	35.26	74.39	92.19	-----	-----	Average
2	5350.020	19.11	34.40	35.21	30.31	48.61	54.00	-5.39	Average
3 q	5358.724	19.12	34.43	35.20	30.65	49.00	54.00	-5.00	Average



Test Mode: 36; Polarity: Vertical; Modulation: OFDM; Channel: High

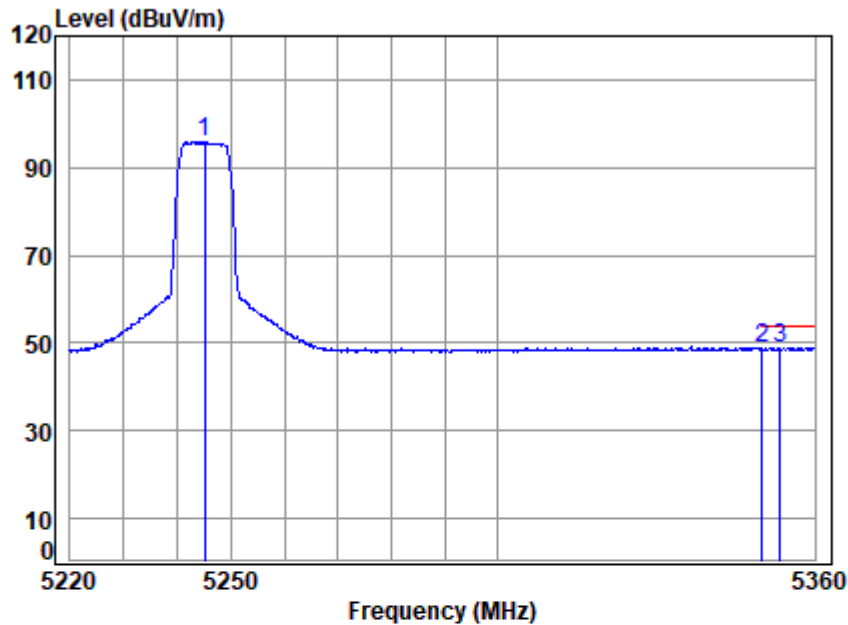


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5245 Band edge
: 5G SDR 10M

		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 p 5245.000		18.97	34.09	35.26	87.37	105.17	68.20	36.97	Peak
2 5350.020		19.11	34.40	35.21	41.51	59.81	74.00	-14.19	Peak
3 5359.149		19.12	34.44	35.20	42.56	60.92	74.00	-13.08	Peak



Test Mode: 36; Polarity: Vertical; Modulation: OFDM; Channel: High

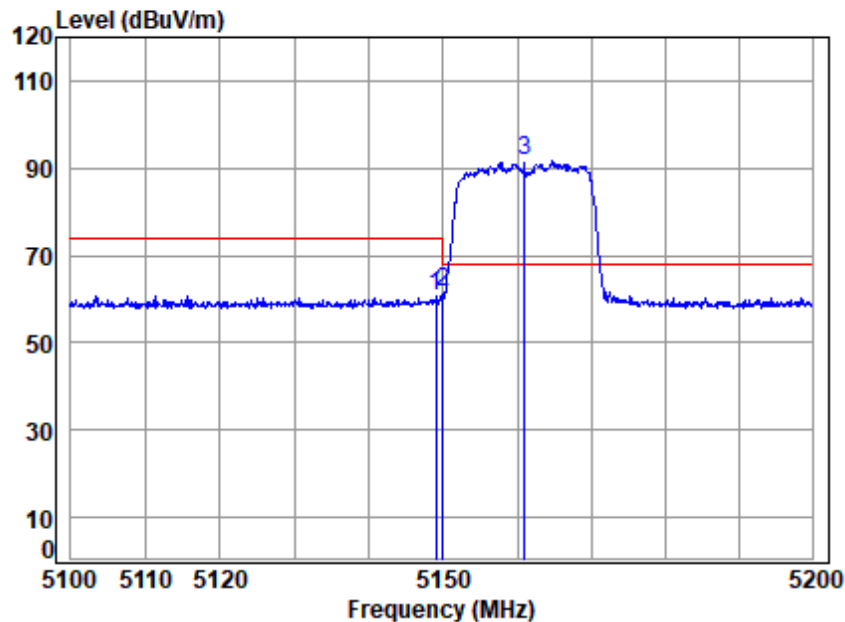


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5245 Band edge
: 5G SDR 10M

		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	5245.000	18.97	34.09	35.26	78.01	95.81	-----	Average
2	5350.020	19.11	34.40	35.21	30.33	48.63	54.00	-5.37 Average
3 q	5353.479	19.11	34.41	35.21	30.59	48.90	54.00	-5.10 Average



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: Low

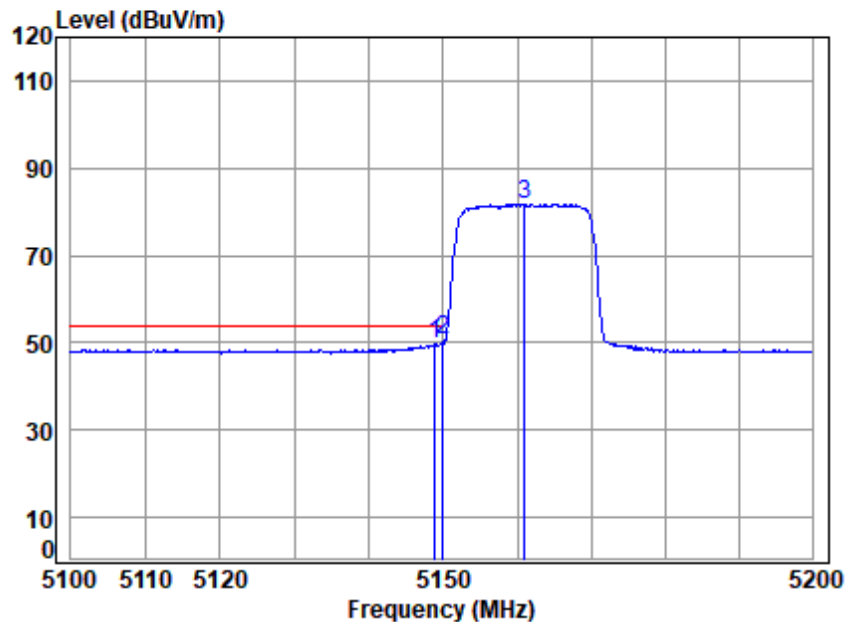


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5161 Band edge
: 5G SDR 20M

		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	5149.057	18.83	33.90	35.31	43.49	60.91	74.00	-13.09	peak
2	5149.980	18.83	33.90	35.31	44.17	61.59	74.00	-12.41	peak
3 p	5161.000	18.85	33.92	35.30	74.05	91.52	68.20	23.32	peak



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: Low

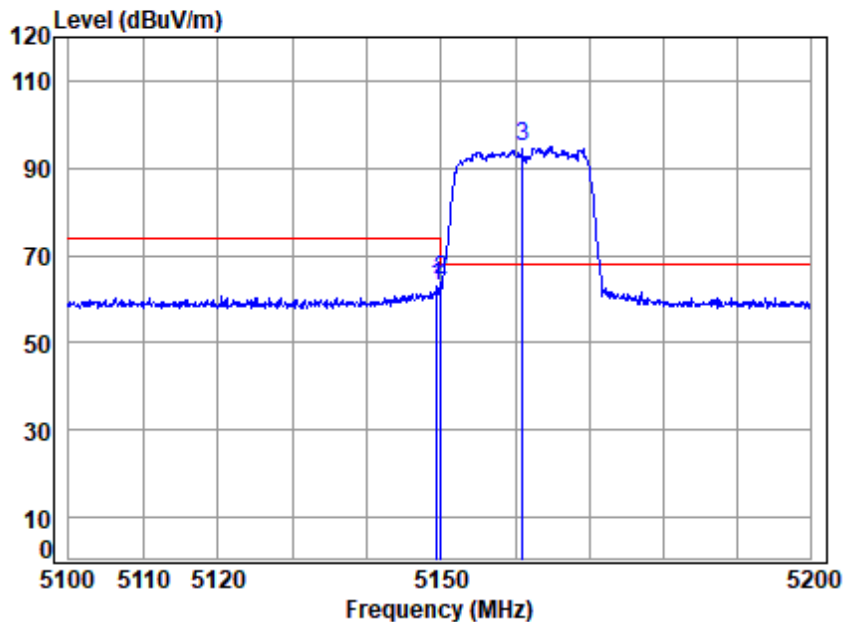


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5161 Band edge
: 5G SDR 20M

		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	5148.857	18.83	33.90	35.31	32.13	49.55	54.00	-4.45 Average
2 q	5149.980	18.83	33.90	35.31	33.03	50.45	54.00	-3.55 Average
3	5161.000	18.85	33.92	35.30	64.29	81.76	-----	----- Average



Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: Low

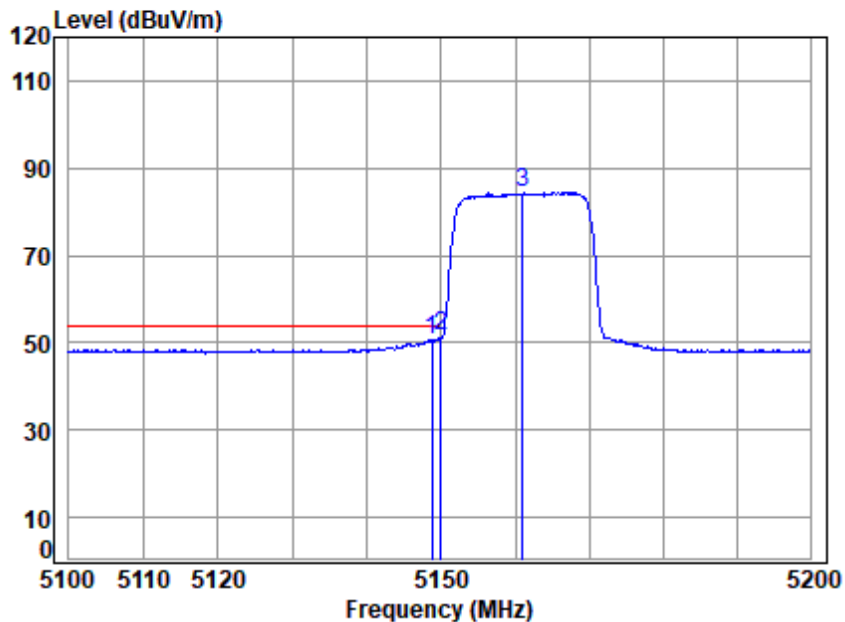


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5161 Band edge
: 5G SDR 20M

		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	5149.458	18.83	33.90	35.31	45.52	62.94	74.00	-11.06 Peak
2	5149.980	18.83	33.90	35.31	46.82	64.24	74.00	-9.76 Peak
3 p	5161.000	18.85	33.92	35.30	77.46	94.93	68.20	26.73 Peak



Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: Low

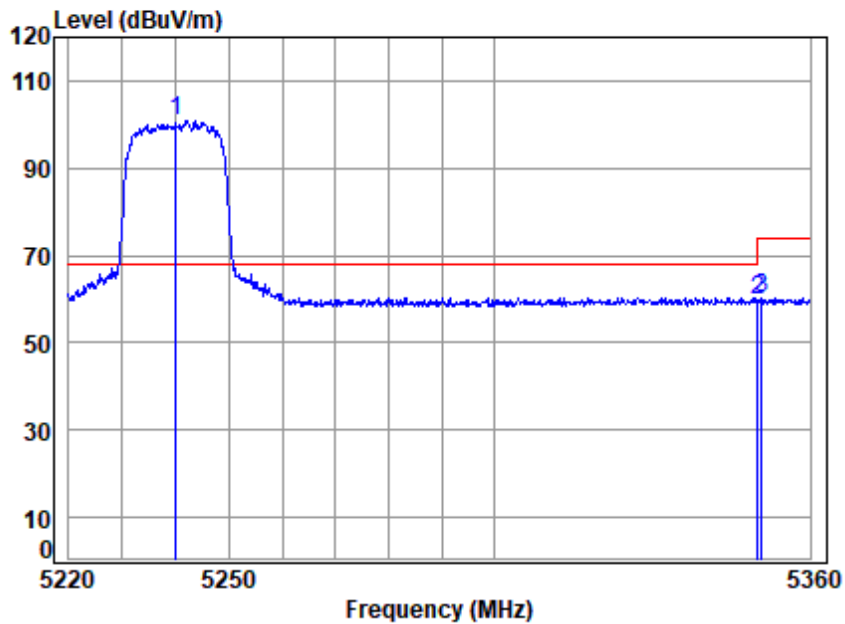


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5161 Band edge
: 5G SDR 20M

		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	5148.757	18.83	33.90	35.31	33.41	50.83	54.00	-3.17 Average
2 q	5149.980	18.83	33.90	35.31	34.07	51.49	54.00	-2.51 Average
3	5161.000	18.85	33.92	35.30	67.07	84.54	-----	----- Average



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: High

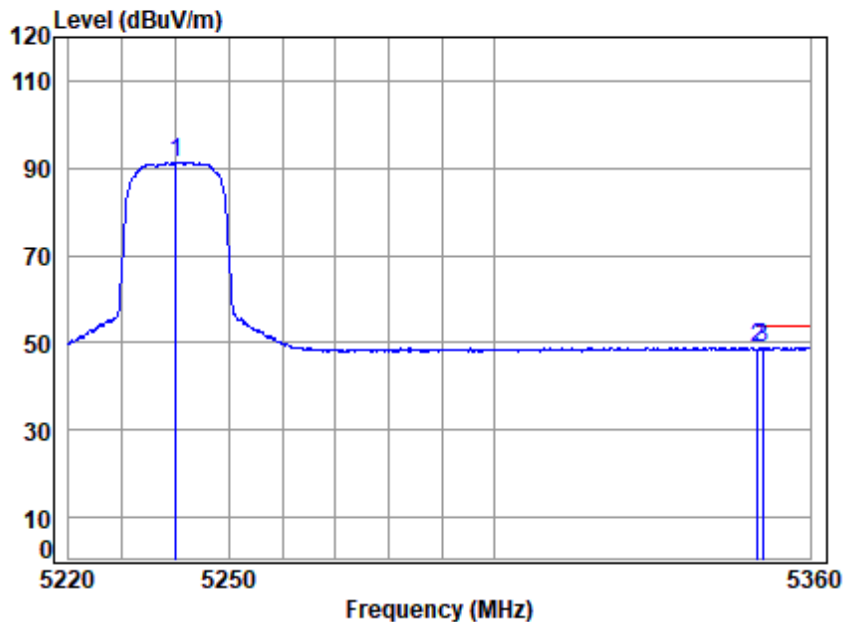


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5240 Band edge
: 5G SDR 20M

		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 p	5240.000	18.96	34.08	35.26	83.10	100.88	68.20	32.68	peak
2	5350.020	19.11	34.40	35.21	41.42	59.72	74.00	-14.28	peak
3	5350.787	19.11	34.40	35.21	42.15	60.45	74.00	-13.55	peak



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: High

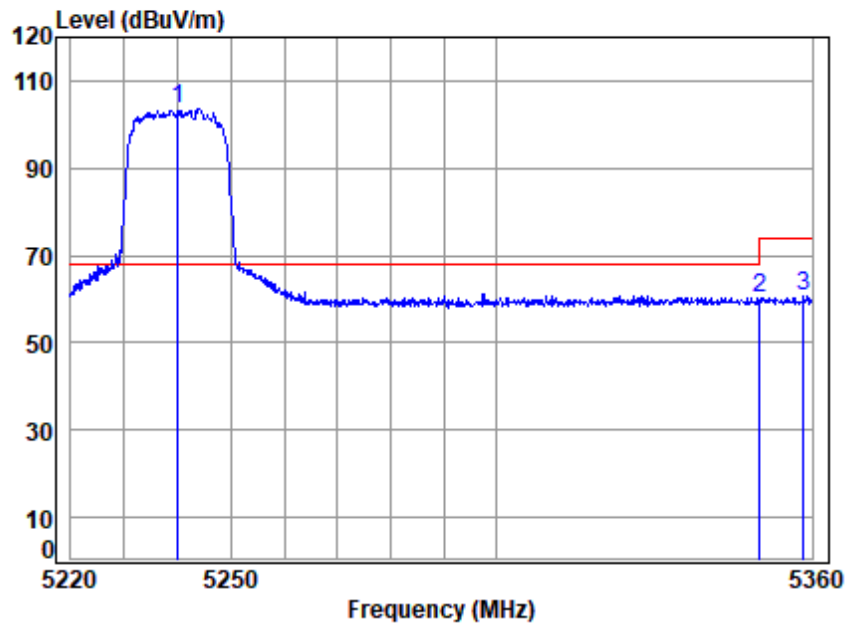


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5240 Band edge
: 5G SDR 20M

		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	5240.000	18.96	34.08	35.26	73.56	91.34	-----	----- Average
2	5350.020	19.11	34.40	35.21	30.33	48.63	54.00	-5.37 Average
3 q	5350.929	19.11	34.40	35.21	30.56	48.86	54.00	-5.14 Average



Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: High

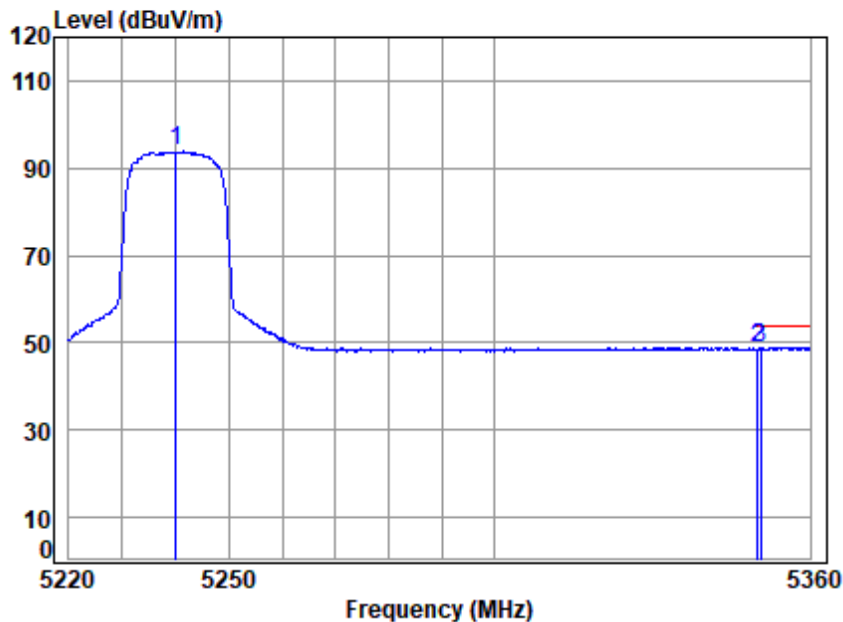


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5240 Band edge
: 5G SDR 20M

		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 p 5240.000	18.96	34.08	35.26	86.01	103.79	68.20	35.59	Peak
2 5350.020	19.11	34.40	35.21	41.95	60.25	74.00	-13.75	Peak
3 5358.298	19.12	34.43	35.20	42.16	60.51	74.00	-13.49	Peak



Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: High

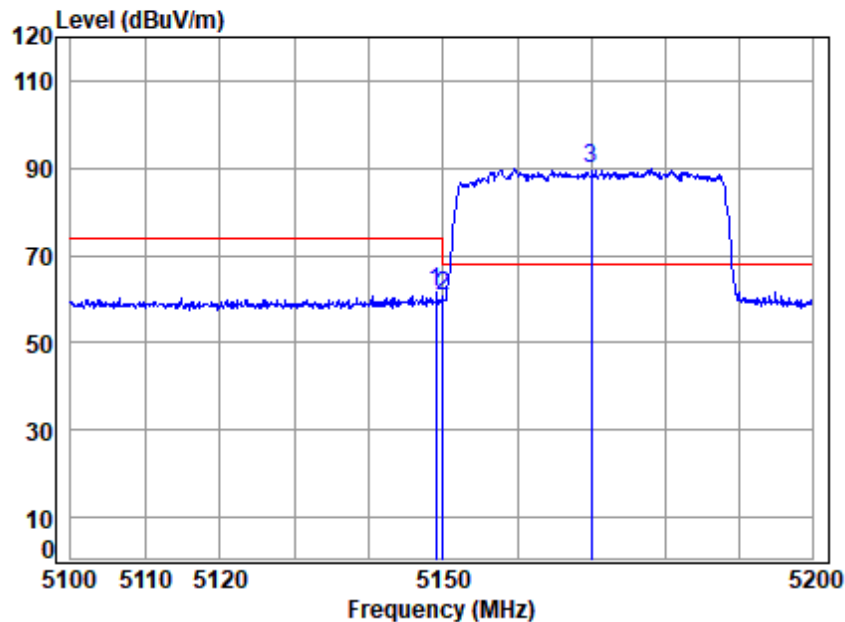


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5240 Band edge
: 5G SDR 20M

		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	5240.000	18.96	34.08	35.26	76.23	94.01	-----	----- Average
2	5350.020	19.11	34.40	35.21	30.51	48.81	54.00	-5.19 Average
3 q	5350.646	19.11	34.40	35.21	30.55	48.85	54.00	-5.15 Average



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: Low

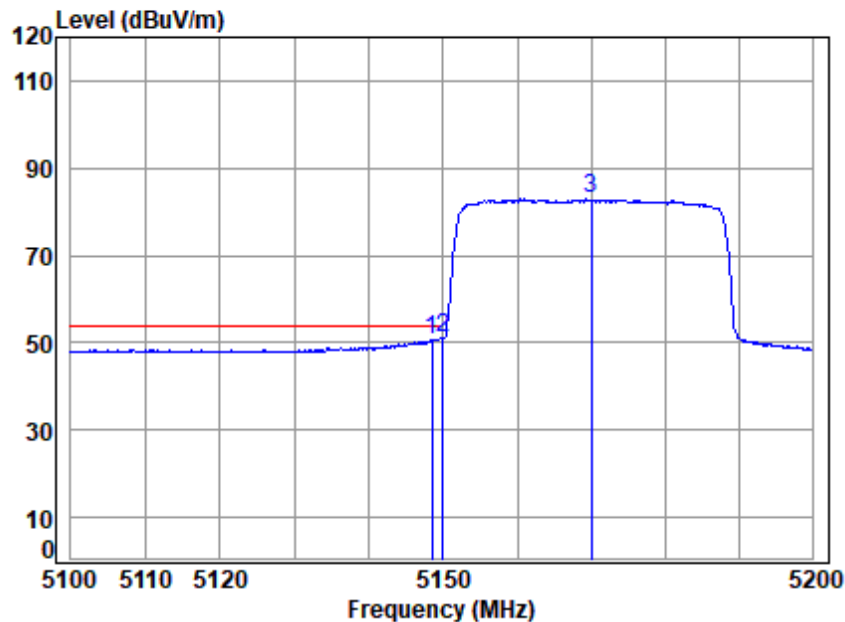


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5170 Band edge
: 5G SDR 40M

		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	5149.057	18.83	33.90	35.31	43.98	61.40	74.00	-12.60	peak
2	5149.980	18.83	33.90	35.31	43.40	60.82	74.00	-13.18	peak
3 p	5170.000	18.86	33.94	35.30	72.28	89.78	68.20	21.58	peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: Low

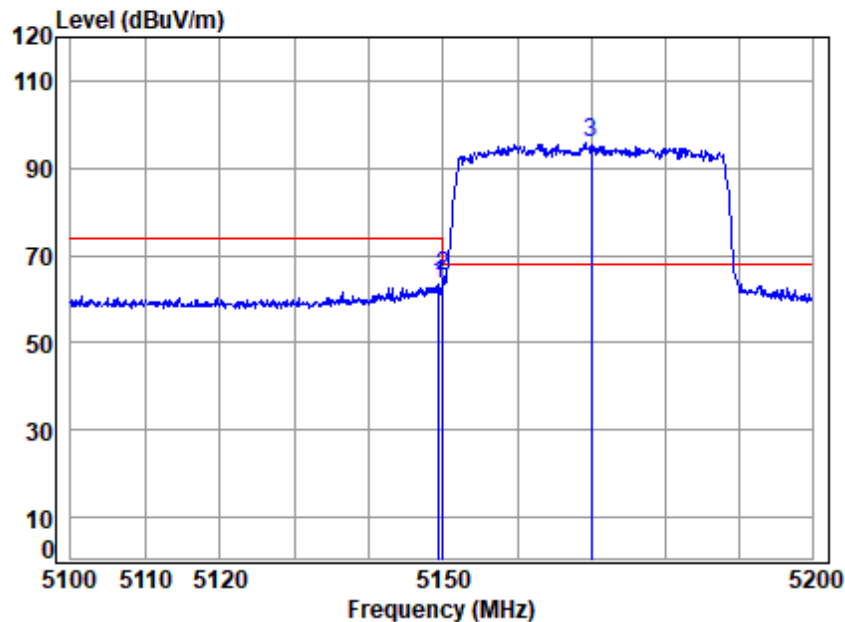


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5170 Band edge
: 5G SDR 40M

		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	5148.458	18.83	33.90	35.31	33.44	50.86	54.00	-3.14 Average
2 q	5149.980	18.83	33.90	35.31	33.91	51.33	54.00	-2.67 Average
3	5170.000	18.86	33.94	35.30	65.51	83.01	-----	----- Average



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: Low

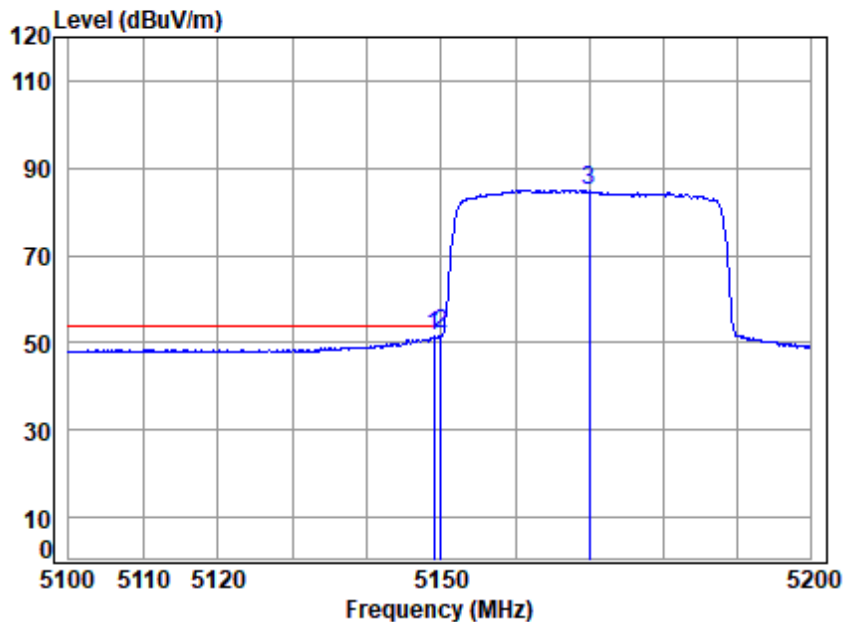


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5170 Band edge
: 5G SDR 40M

		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	5149.357	18.83	33.90	35.31	46.09	63.51	74.00	-10.49 Peak
2	5149.980	18.83	33.90	35.31	47.67	65.09	74.00	-8.91 Peak
3 p	5170.000	18.86	33.94	35.30	78.20	95.70	68.20	27.50 Peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: Low

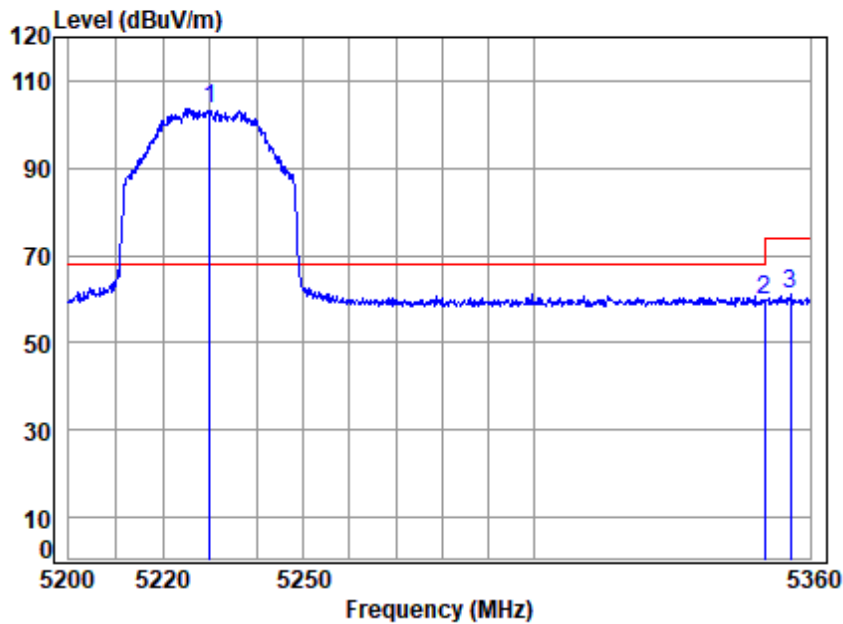


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5170 Band edge
: 5G SDR 40M

		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 5149.057	18.83	33.90	35.31	34.14	51.56	54.00	-2.44	Average
2 q 5149.980	18.83	33.90	35.31	34.69	52.11	54.00	-1.89	Average
3 5170.000	18.86	33.94	35.30	67.48	84.98	-----	-----	Average



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: High

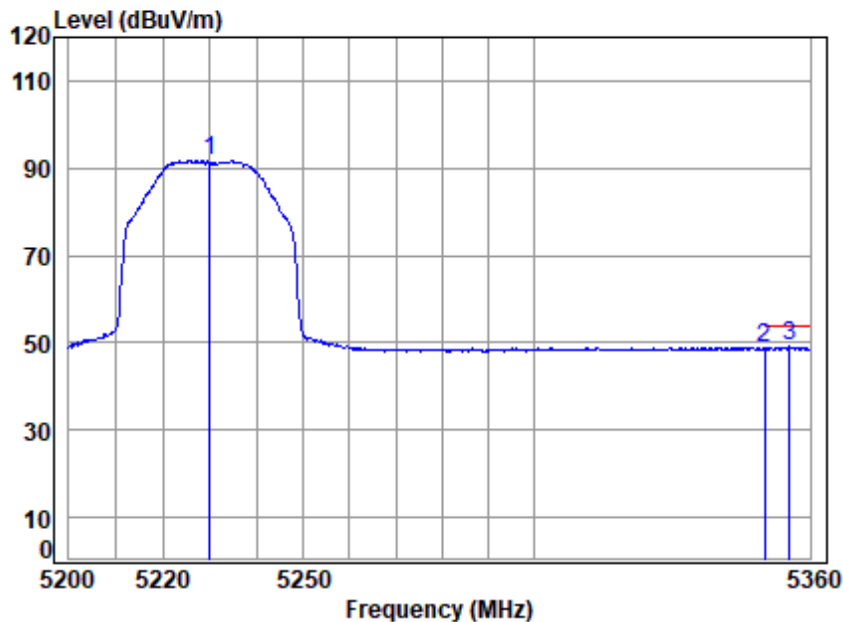


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5230 Band edge
: 5G SDR 40M

		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 p	5230.000	18.95	34.06	35.27	85.91	103.65	68.20	35.45	peak
2	5350.020	19.11	34.40	35.21	41.51	59.81	74.00	-14.19	peak
3	5355.778	19.12	34.42	35.21	42.67	61.00	74.00	-13.00	peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: High

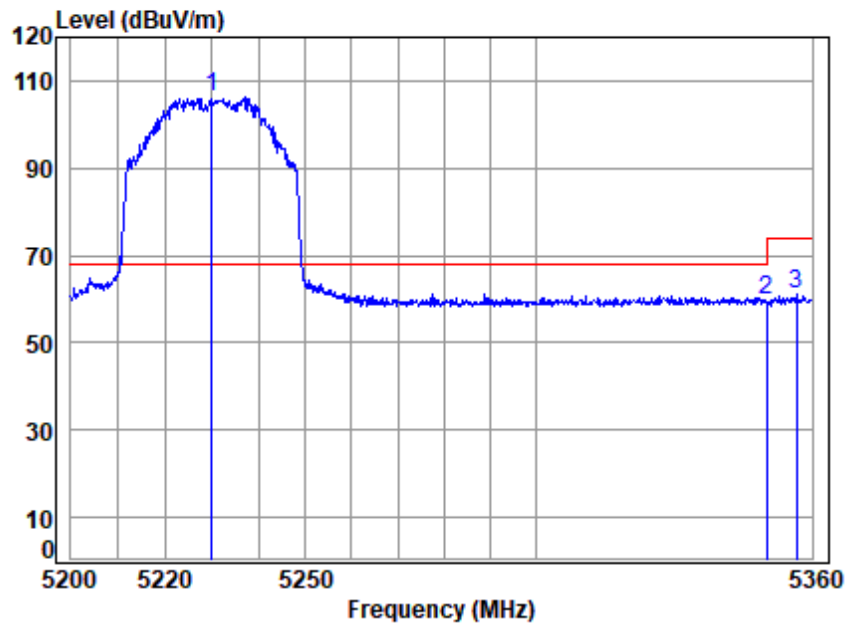


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02498AT\02499AT
 Mode : 5230 Band edge
 : 5G SDR 40M

		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	5230.000	18.95	34.06	35.27	74.01	91.75	-----	----- Average
2	5350.020	19.11	34.40	35.21	30.33	48.63	54.00	-5.37 Average
3 q	5355.454	19.12	34.42	35.21	30.73	49.06	54.00	-4.94 Average



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: High

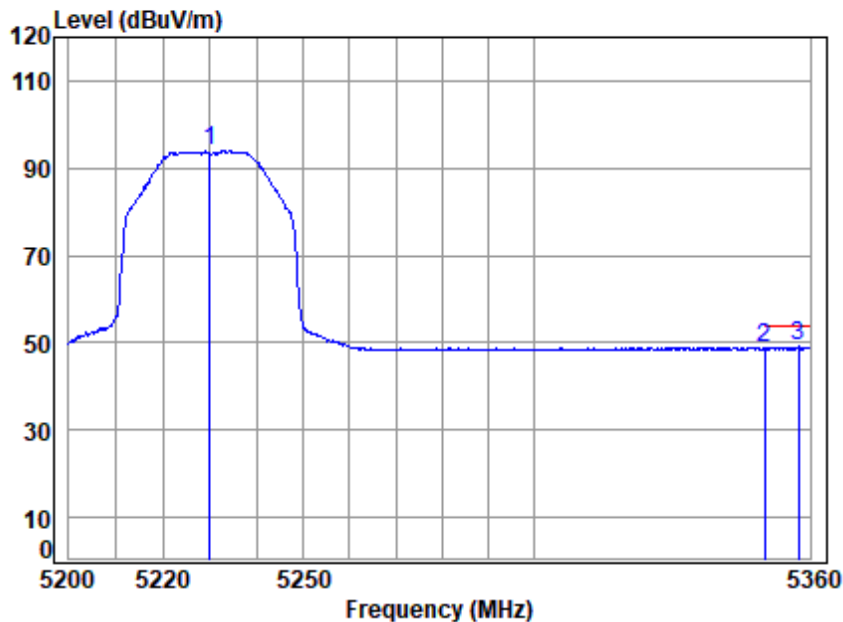


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5230 Band edge
: 5G SDR 40M

		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 p	5230.000	18.95	34.06	35.27	88.37	106.11	68.20	37.91 Peak
2	5350.020	19.11	34.40	35.21	41.28	59.58	74.00	-14.42 Peak
3	5356.590	19.12	34.43	35.20	42.64	60.99	74.00	-13.01 Peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: High

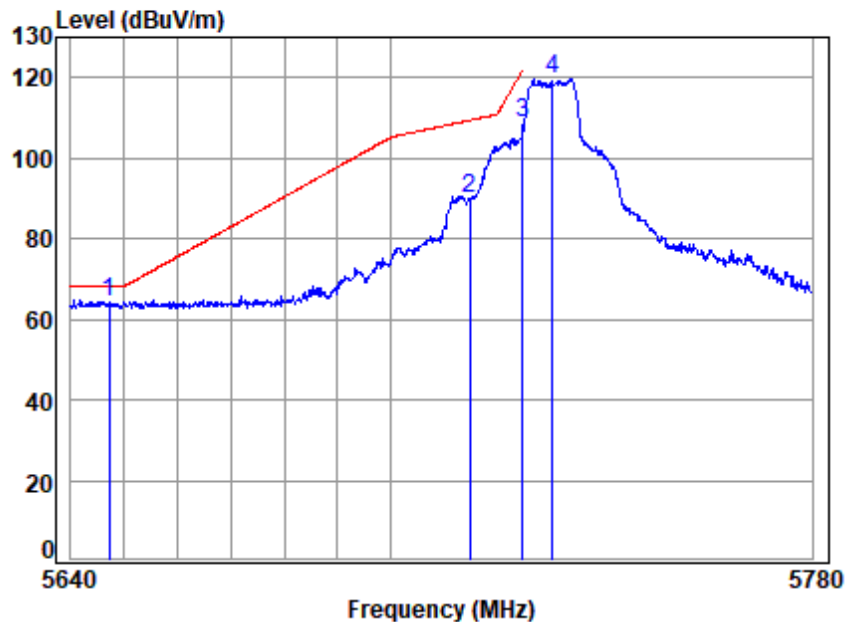


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5230 Band edge
: 5G SDR 40M

		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	5230.000	18.95	34.06	35.27	76.32	94.06	-----	----- Average
2	5350.020	19.11	34.40	35.21	30.33	48.63	54.00	-5.37 Average
3 q	5357.402	19.12	34.43	35.20	30.74	49.09	54.00	-4.91 Average



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5730.5 Band edge
: 5G SDR 10M

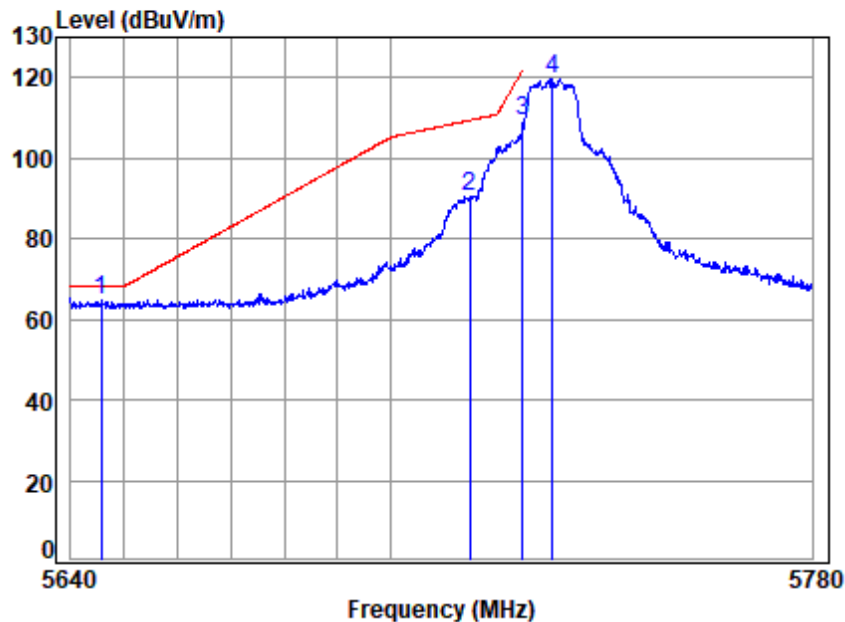
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5647.196	29.56	34.42	35.06	35.57	64.49	68.20	-3.71 Peak
2	5715.000	29.60	34.27	35.03	60.95	89.79	109.40	-19.61 peak
3	5725.000	29.61	34.25	35.03	79.97	108.80	122.20	-13.40 peak
4	5730.500	29.61	34.24	35.02	91.01	119.84	-----	----- peak



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Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Low

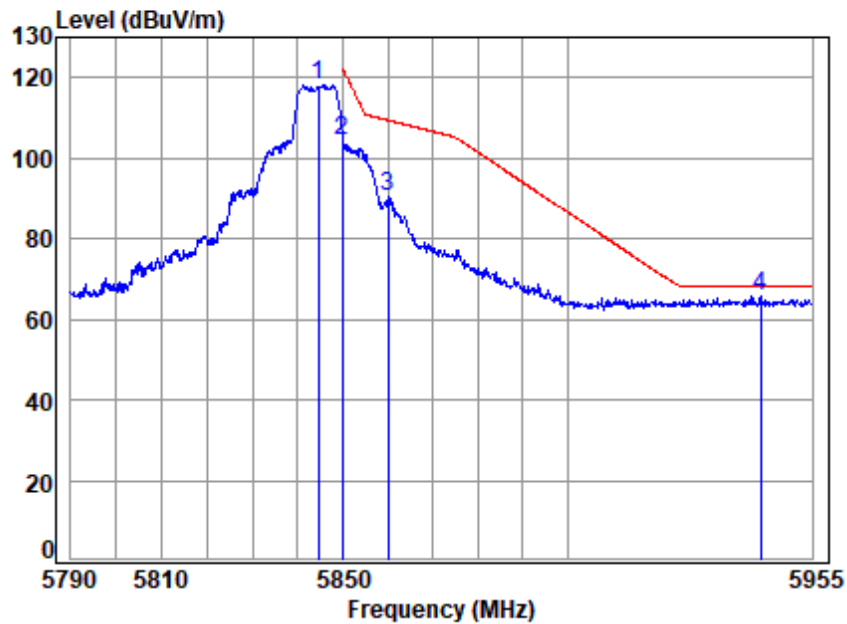


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5730.5 Band edge
: 5G SDR 10M

		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 p	5645.673	29.56	34.43	35.06	35.73	64.66	68.20	-3.54 Peak
2	5715.000	29.60	34.27	35.03	61.55	90.39	109.40	-19.01 peak
3	5725.000	29.61	34.25	35.03	80.28	109.11	122.20	-13.09 peak
4	5730.500	29.61	34.24	35.02	90.84	119.67	-----	----- peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5844.5 Band edge
: 5G SDR 10M

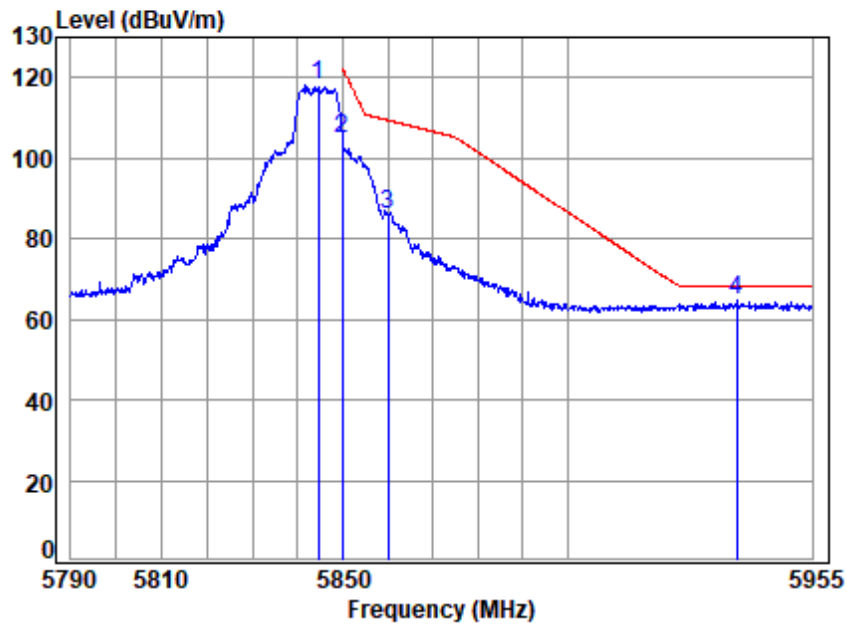
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5844.500	29.68	34.39	34.97	89.11	118.21	-----	-----	peak
2	5850.000	29.68	34.40	34.97	75.34	104.45	122.20	-17.75	peak
3	5860.000	29.69	34.44	34.96	61.10	90.27	109.40	-19.13	peak
4 p	5943.465	29.74	34.69	34.93	36.19	65.69	68.20	-2.51	peak



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Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: High

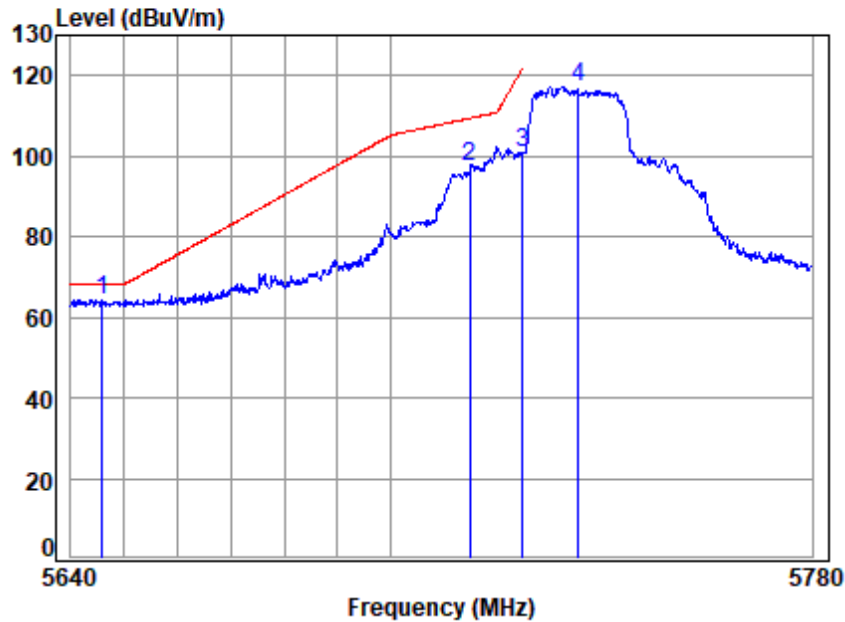


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5844.5 Band edge
: 5G SDR 10M

		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	29.68	34.39	34.97	88.91	118.01	-----	peak
2	5850.000	29.68	34.40	34.97	75.87	104.98	122.20	-17.22 peak
3	5860.000	29.69	34.44	34.96	56.94	86.11	109.40	-23.29 peak
4 p	5938.124	29.73	34.68	34.93	35.06	64.54	68.20	-3.66 peak



Test Mode: 23; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5735.5 Band edge
: 5G SDR 20M

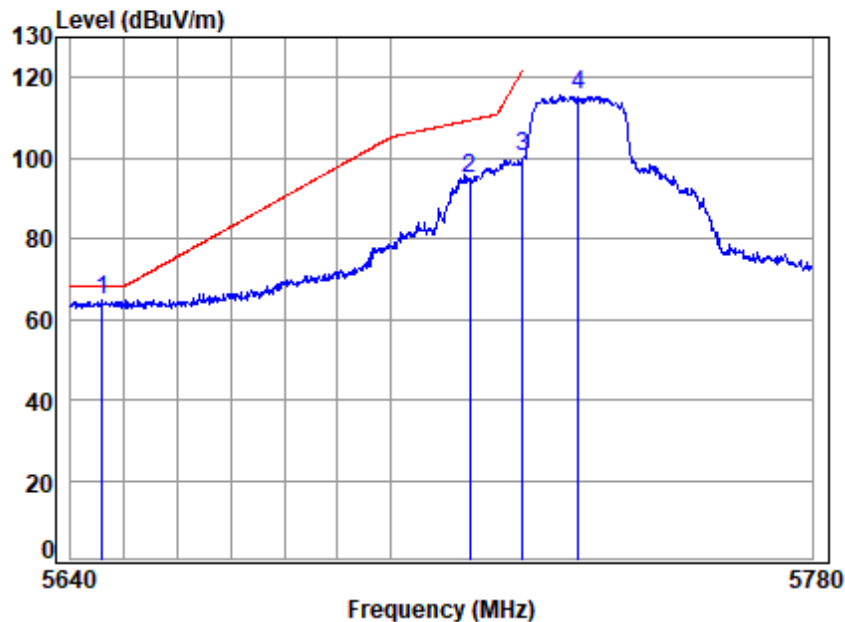
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5645.811	29.56	34.43	35.06	35.38	64.31	68.20	-3.89 Peak
2	5715.000	29.60	34.27	35.03	68.31	97.15	109.40	-12.25 peak
3	5725.000	29.61	34.25	35.03	72.23	101.06	122.20	-21.14 peak
4	5735.500	29.61	34.23	35.02	88.52	117.34	-----	----- peak



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Test Mode: 23; Polarity: Vertical; Modulation: OFDM; Channel: Low

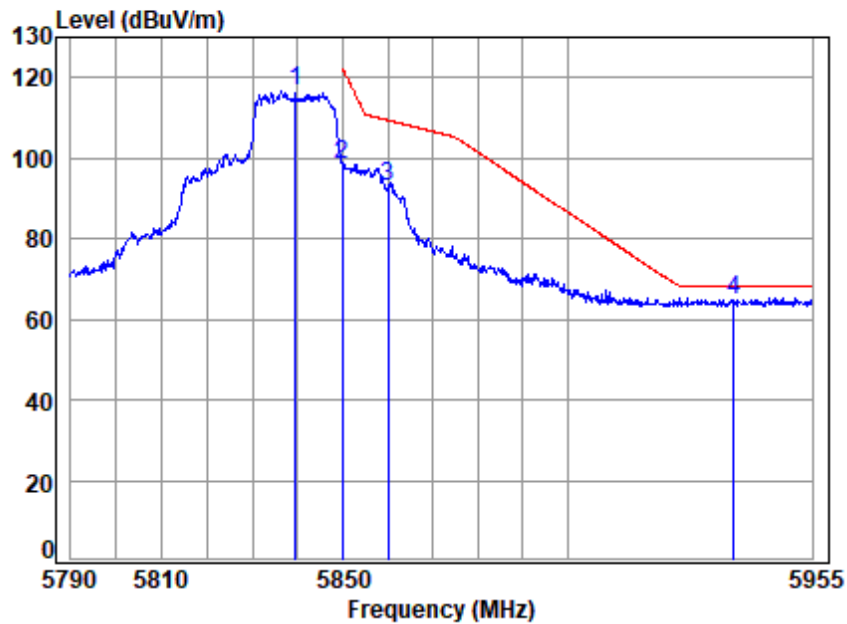


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5735.5 Band edge
: 5G SDR 20M

		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 p 5645.811	29.56	34.43	35.06	35.79	64.72	68.20	-3.48	Peak
2 5715.000	29.60	34.27	35.03	66.10	94.94	109.40	-14.46	peak
3 5725.000	29.61	34.25	35.03	71.43	100.26	122.20	-21.94	peak
4 5735.500	29.61	34.23	35.02	86.78	115.60	-----	-----	peak



Test Mode: 23; Polarity: Horizontal; Modulation: OFDM; Channel: High

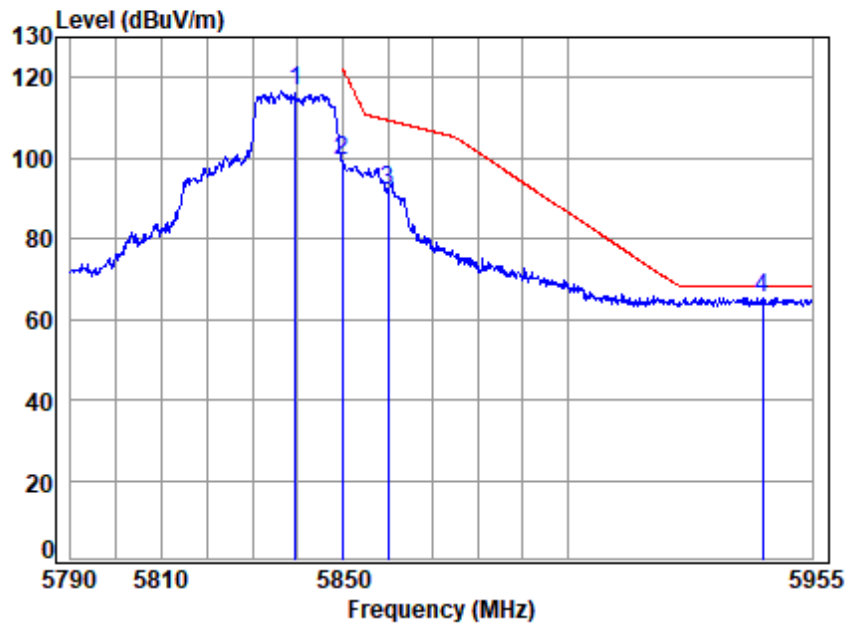


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5839.5 Band edge
: 5G SDR 20M

		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	29.68	34.38	34.97	87.78	116.87	-----	peak
2	5850.000	29.68	34.40	34.97	69.23	98.34	122.20	-23.86 peak
3	5860.000	29.69	34.44	34.96	63.83	93.00	109.40	-16.40 peak
4 p	5937.290	29.73	34.67	34.93	35.49	64.96	68.20	-3.24 Peak



Test Mode: 23; Polarity: Vertical; Modulation: OFDM; Channel: High

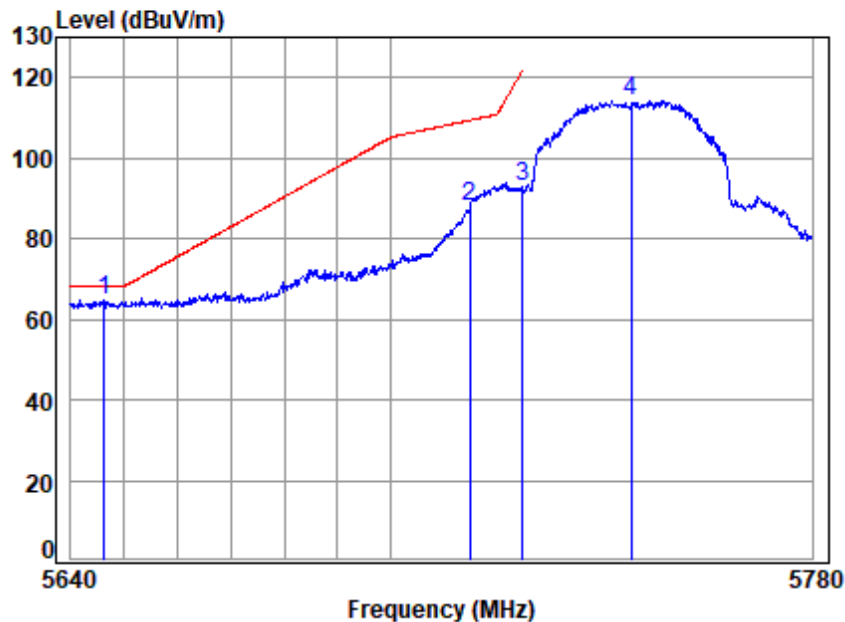


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5839.5 Band edge
: 5G SDR 20M

		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	29.68	34.38	34.97	87.33	116.42	-----	peak
2	5850.000	29.68	34.40	34.97	70.02	99.13	122.20	-23.07 peak
3	5860.000	29.69	34.44	34.96	62.56	91.73	109.40	-17.67 peak
4 p	5943.966	29.74	34.69	34.93	35.80	65.30	68.20	-2.90 Peak



Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: Low

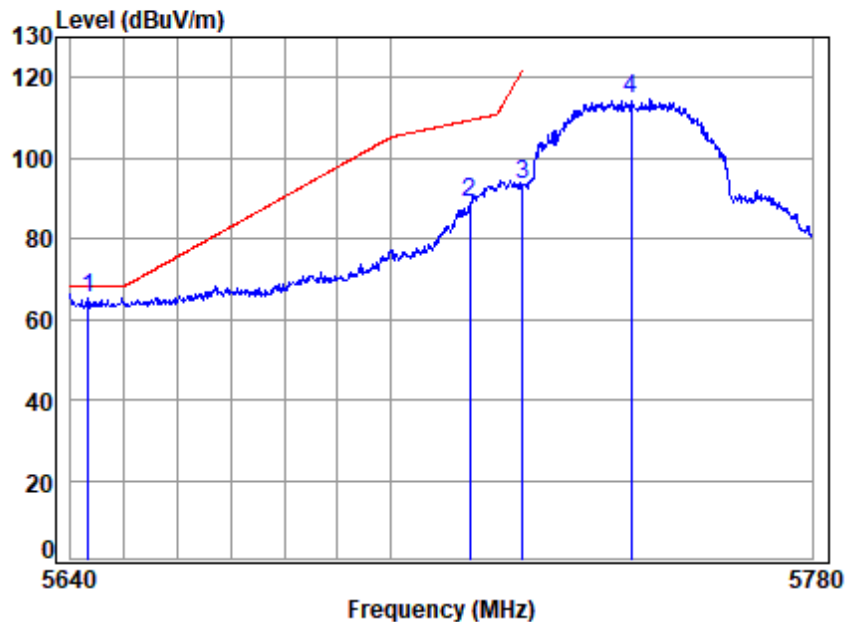


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5745.5 Band edge
: 5G SDR 40M

		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 p 5646.227	29.56	34.42	35.06	35.60	64.52	68.20	-3.68	peak
2 5715.000	29.60	34.27	35.03	59.19	88.03	109.40	-21.37	peak
3 5725.000	29.61	34.25	35.03	63.94	92.77	122.20	-29.43	peak
4 5745.500	29.62	34.21	35.02	85.56	114.37	-----	-----	peak



Test Mode: 25; Polarity: Vertical; Modulation: OFDM; Channel: Low

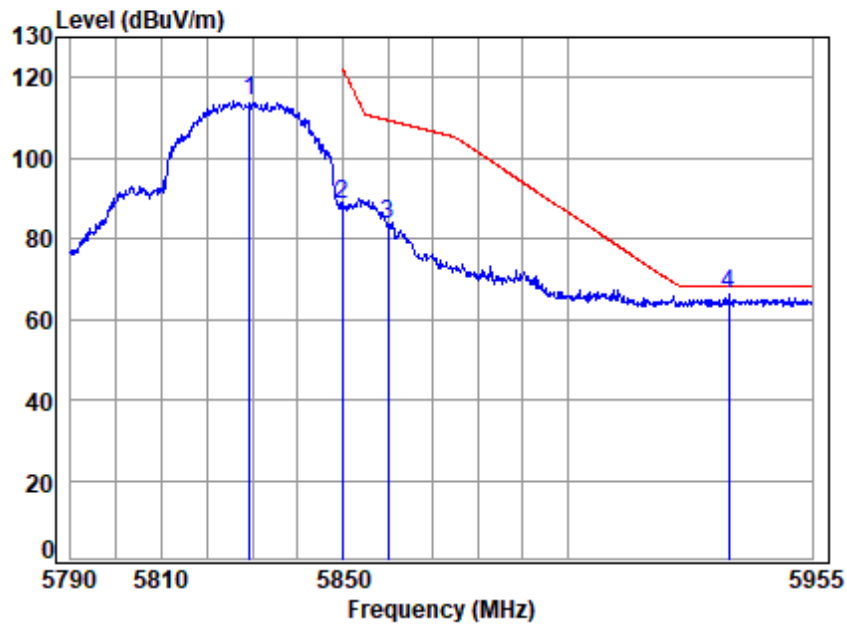


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5745.5 Band edge
: 5G SDR 40M

		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 p 5643.320	29.56	34.44	35.06	36.29	65.23	68.20	-2.97	peak
2 5715.000	29.60	34.27	35.03	59.96	88.80	109.40	-20.60	peak
3 5725.000	29.61	34.25	35.03	64.67	93.50	122.20	-28.70	peak
4 5745.500	29.62	34.21	35.02	85.66	114.47	-----	-----	peak



Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: High

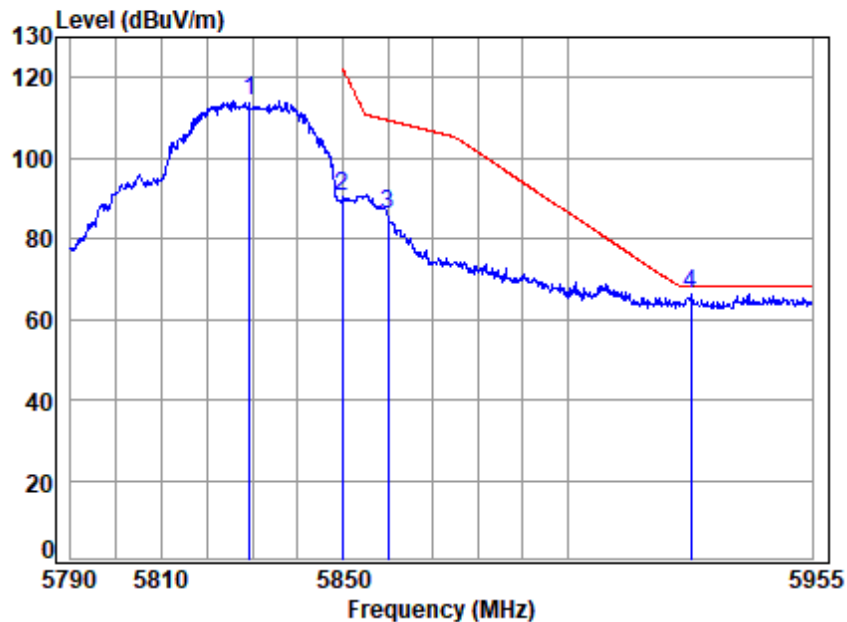


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5829.5 Band edge
: 5G SDR 40M

		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	29.67	34.36	34.98	85.31	114.36	-----	-----	peak
2	5850.000	29.68	34.40	34.97	59.31	88.42	122.20	-33.78	peak
3	5860.000	29.69	34.44	34.96	54.12	83.29	109.40	-26.11	peak
4 p	5936.122	29.73	34.67	34.93	36.84	66.31	68.20	-1.89	peak



Test Mode: 25; Polarity: Vertical; Modulation: OFDM; Channel: High

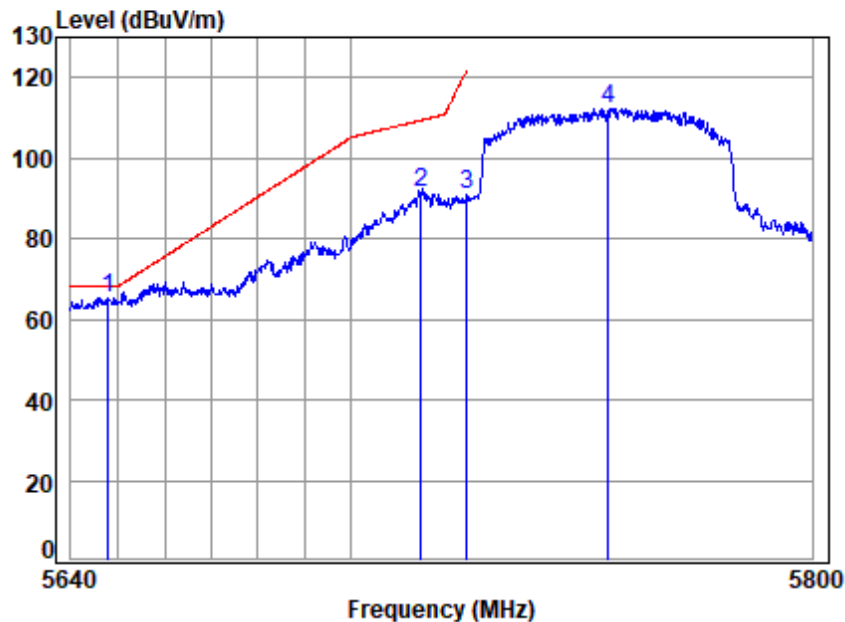


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5829.5 Band edge
: 5G SDR 40M

		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	29.67	34.36	34.98	85.08	114.13	-----	peak
2	5850.000	29.68	34.40	34.97	61.14	90.25	122.20	-31.95 peak
3	5860.000	29.69	34.44	34.96	57.00	86.17	109.40	-23.23 peak
4 p	5927.788	29.73	34.66	34.93	36.77	66.23	68.20	-1.97 peak



Test Mode: 27; Polarity: Horizontal; Modulation: OFDM; Channel: Low

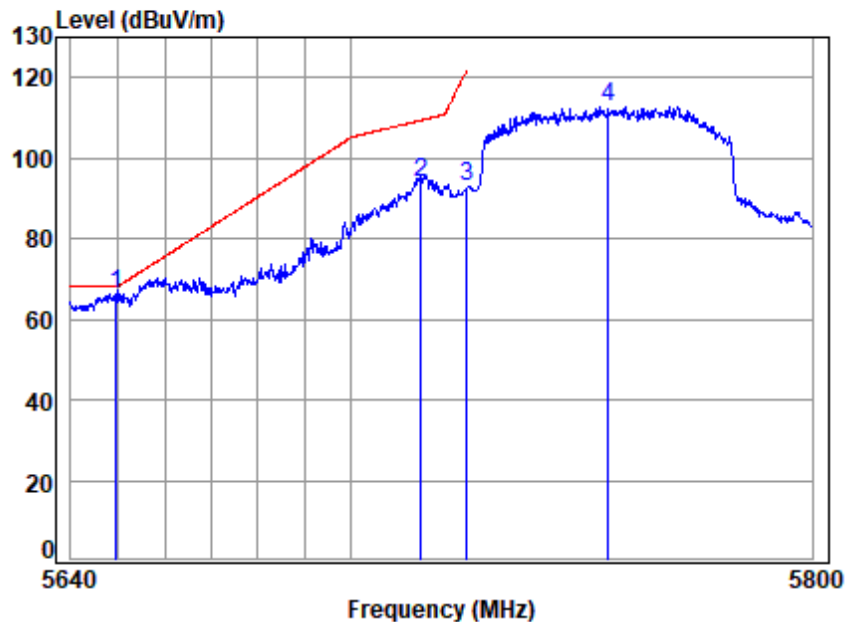


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5755.5 Band edge
: 5G SDR 60M

		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 p 5647.894	29.56	34.41	35.06	36.55	65.46	68.20	-2.74	peak
2 5715.000	29.60	34.27	35.03	62.48	91.32	109.40	-18.08	peak
3 5725.000	29.61	34.25	35.03	62.05	90.88	122.20	-31.32	peak
4 5755.500	29.63	34.21	35.01	83.52	112.35	-----	-----	peak



Test Mode: 27; Polarity: Vertical; Modulation: OFDM; Channel: Low

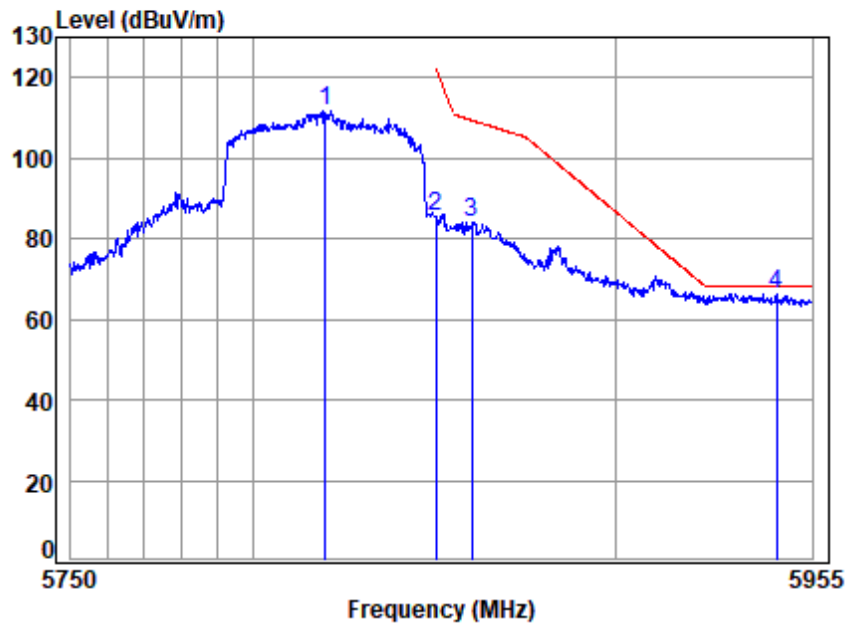


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5755.5 Band edge
: 5G SDR 60M

		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 p 5649.632	29.56	34.40	35.06	37.48	66.38	68.20	-1.82	peak
2 5715.000	29.60	34.27	35.03	65.28	94.12	109.40	-15.28	peak
3 5725.000	29.61	34.25	35.03	64.20	93.03	122.20	-29.17	peak
4 5755.500	29.63	34.21	35.01	84.01	112.84	-----	-----	peak



Test Mode: 27; Polarity: Horizontal; Modulation: OFDM; Channel: High

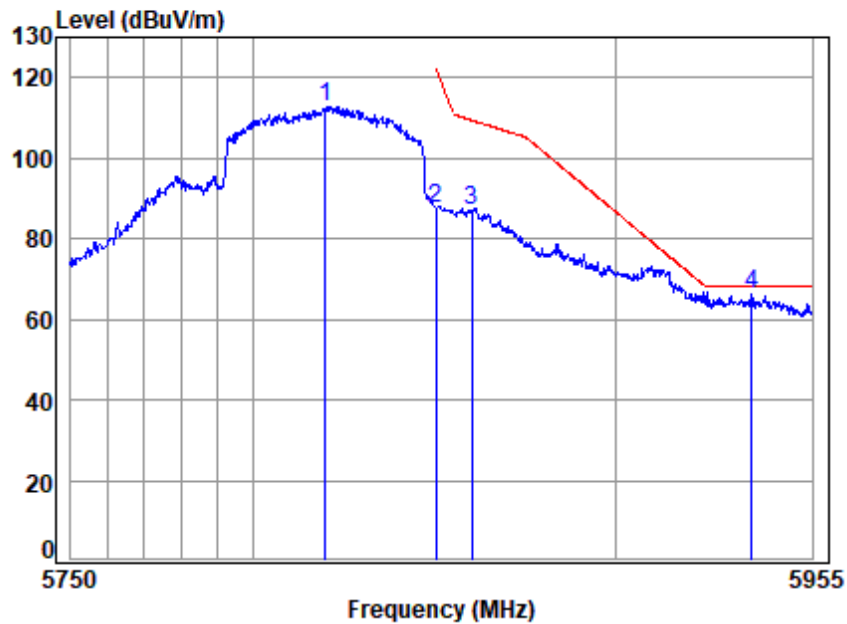


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5819.5 Band edge
: 5G SDR 60M

		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	5819.500	29.66	34.34	34.98	82.80	111.82	-----	peak
2	5850.000	29.68	34.40	34.97	56.27	85.38	122.20	-36.82 peak
3	5860.000	29.69	34.44	34.96	55.02	84.19	109.40	-25.21 peak
4 p	5944.995	29.74	34.69	34.92	36.87	66.38	68.20	-1.82 peak



Test Mode: 27; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5819.5 Band edge
: 5G SDR 60M

		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	5819.500	29.66	34.34	34.98	83.79	112.81	-----	-----	peak
2	5850.000	29.68	34.40	34.97	58.42	87.53	122.20	-34.67	peak
3	5860.000	29.69	34.44	34.96	57.99	87.16	109.40	-22.24	peak
4 p	5938.126	29.73	34.68	34.93	36.64	66.12	68.20	-2.08	peak



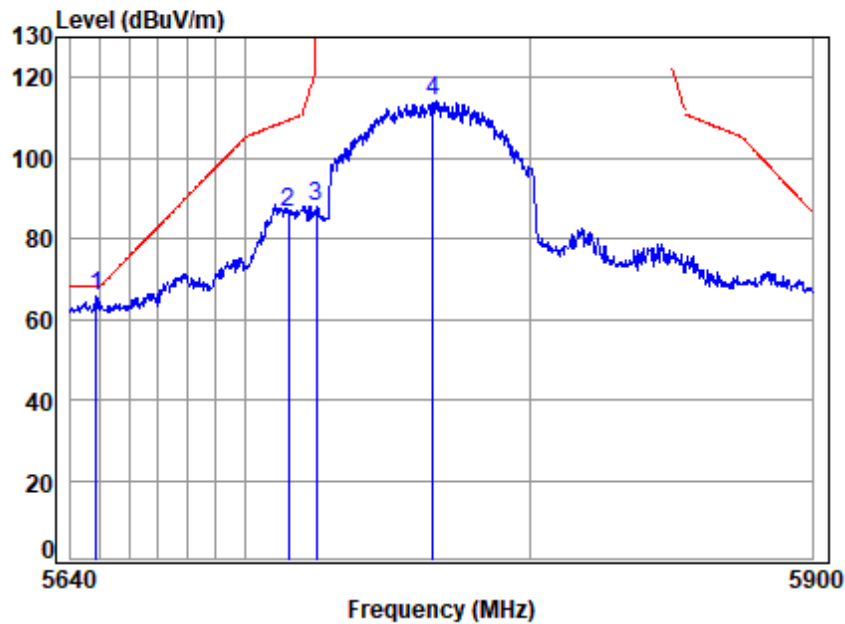
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Test Mode: 29; Polarity: Horizontal; Modulation: OFDM; Channel: Low

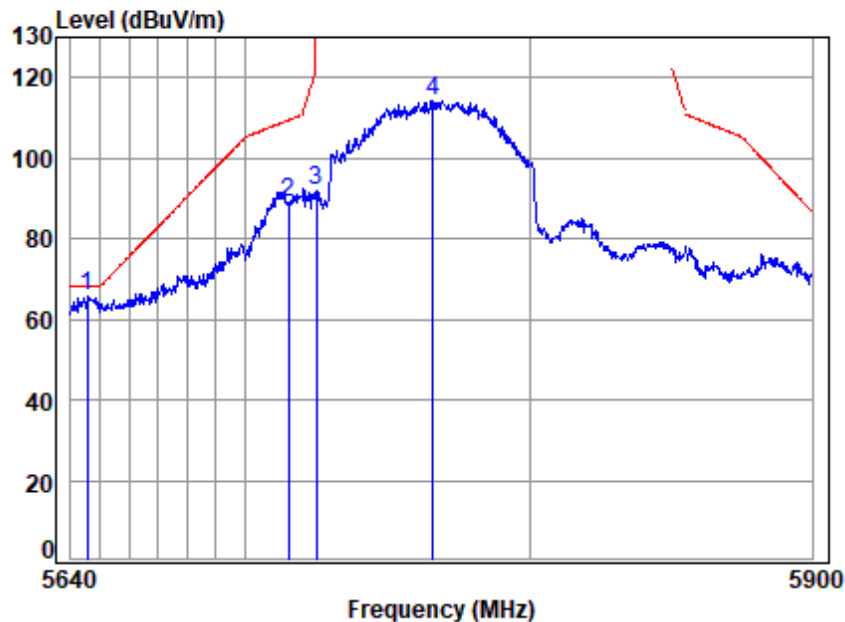


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5765.5 Band edge
: 5G SDR 80M

		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 p	5648.903	29.56	34.41	35.06	36.75	65.66	68.20	-2.54	peak
2	5715.000	29.60	34.27	35.03	57.88	86.72	109.40	-22.68	peak
3	5725.000	29.61	34.25	35.03	58.97	87.80	122.20	-34.40	peak
4	5765.500	29.63	34.23	35.01	85.16	114.01	-----	-----	peak



Test Mode: 29; Polarity: Vertical; Modulation: OFDM; Channel: Low

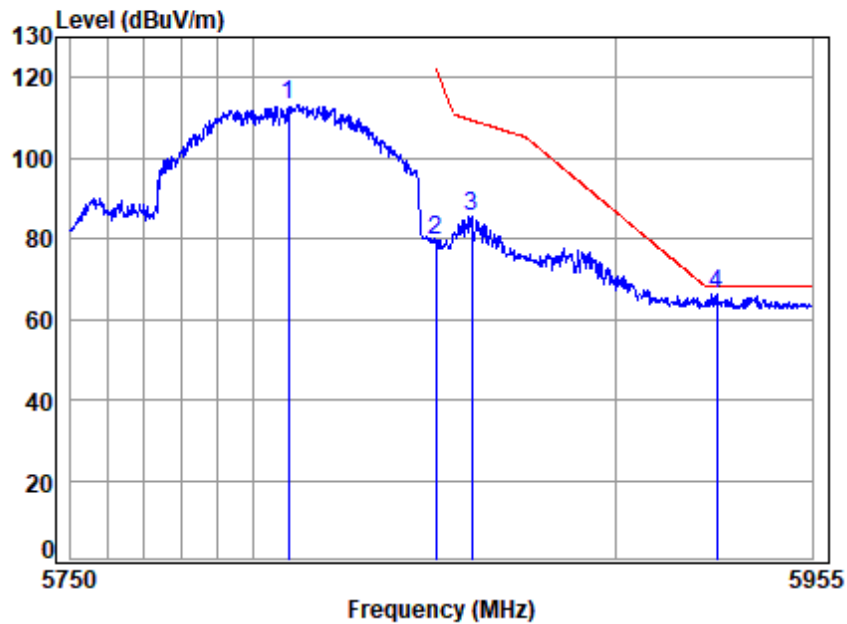


Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5765.5 Band edge
: 5G SDR 80M

		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 p 5645.595	29.56	34.43	35.06	36.97	65.90	68.20	-2.30	peak
2 5715.000	29.60	34.27	35.03	60.38	89.22	109.40	-20.18	peak
3 5725.000	29.61	34.25	35.03	63.09	91.92	122.20	-30.28	peak
4 5765.500	29.63	34.23	35.01	85.57	114.42	-----	-----	peak



Test Mode: 29; Polarity: Horizontal; Modulation: OFDM; Channel: High

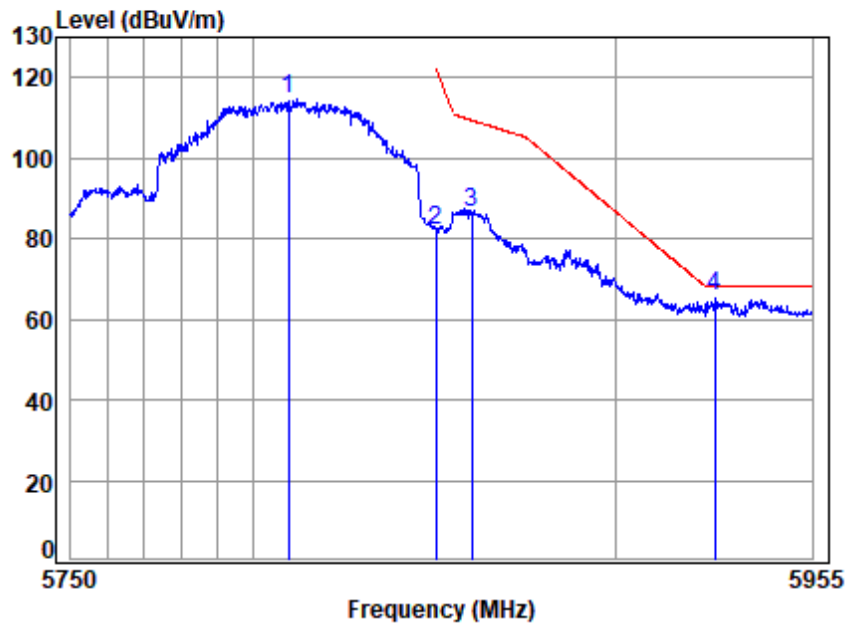


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02498AT\02499AT
Mode : 5809.5 Band edge
: 5G SDR 80M

		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	5809.500	29.66	34.32	34.99	84.22	113.21	-----	-----	peak
2	5850.000	29.68	34.40	34.97	50.38	79.49	122.20	-42.71	peak
3	5860.000	29.69	34.44	34.96	56.44	85.61	109.40	-23.79	peak
4 p	5928.150	29.73	34.66	34.93	36.68	66.14	68.20	-2.06	peak



Test Mode: 29; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 02498AT\02499AT
Mode : 5809.5 Band edge
: 5G SDR 80M

		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	5809.500	29.66	34.32	34.99	85.66	114.65	-----	peak
2	5850.000	29.68	34.40	34.97	53.16	82.27	122.20	-39.93 peak
3	5860.000	29.69	34.44	34.96	57.18	86.35	109.40	-23.05 peak
4 p	5927.734	29.73	34.66	34.93	36.23	65.69	68.20	-2.51 peak



7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.6.1 E.U.T. Operation

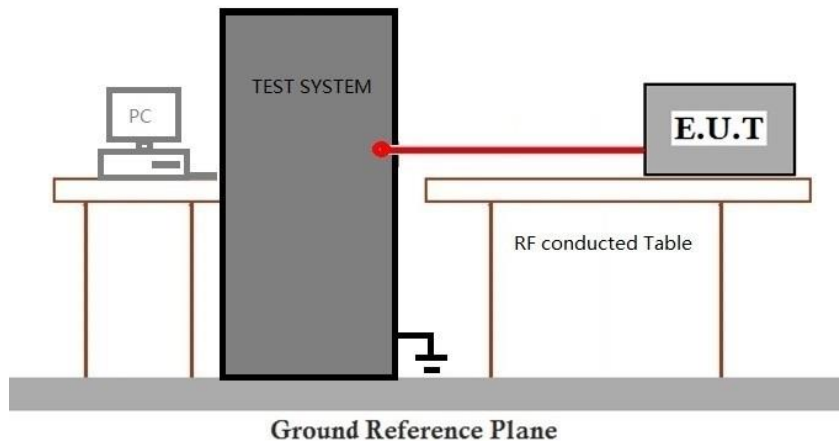
Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 99% Bandwidth

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

7.7.1 E.U.T. Operation

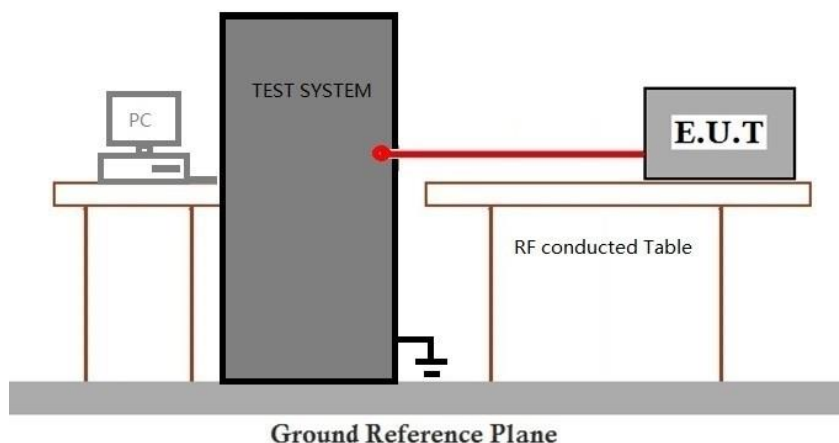
Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

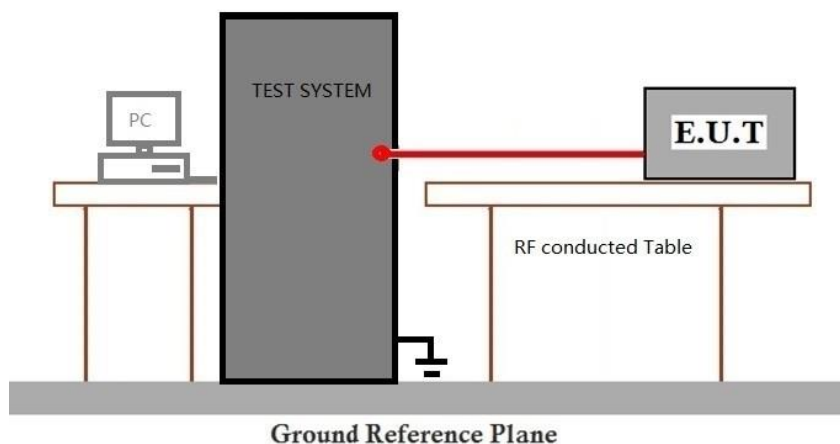
Humidity: 43.1 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 90 of 293

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

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 43.1 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.



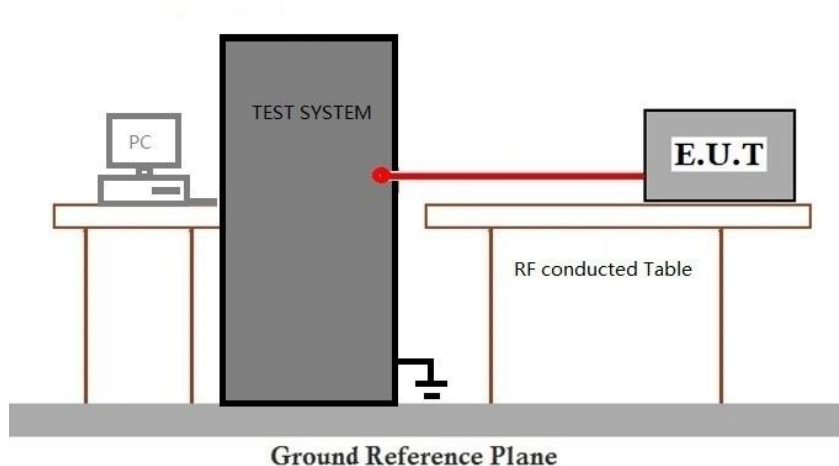
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 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.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 43.1 % RH

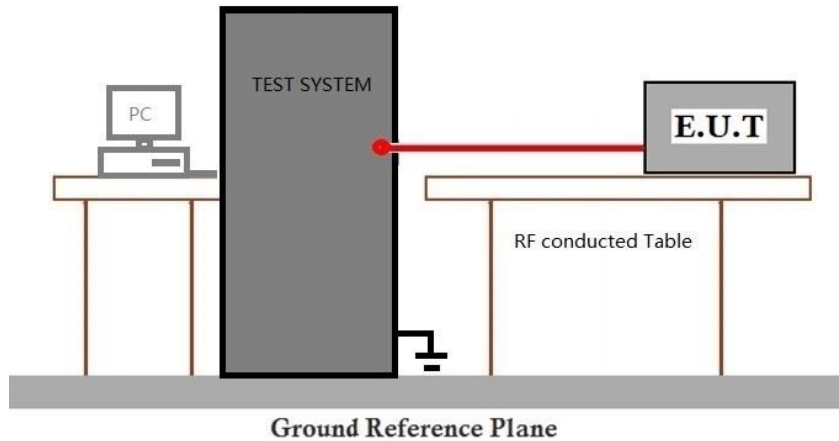
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

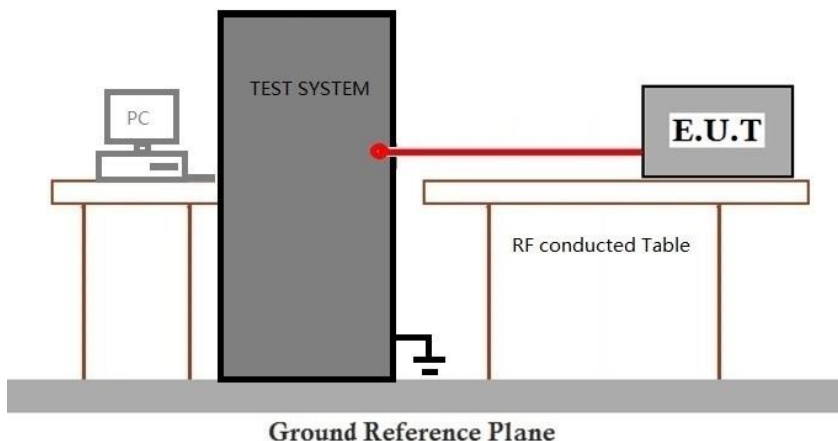
Humidity: 43.1 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	18	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode.
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode.
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode.
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode.
Final test	35	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Setup Photo for SZCR2406002498AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2406002498AT



10 Appendix

Note: 5G SDR support SISO and MIMO mode, MIMO mode support ANT01, ANT03, ANT21, ANT23, the conducted output power is the same between SISO mode and MIMO mode, so only MIMO mode was selected to test, ANT03 and ANT21 are the worst case for MIMO mode.

5.1G SDR ANT03 test data

1. Duty Cycle

1.1 Test Result

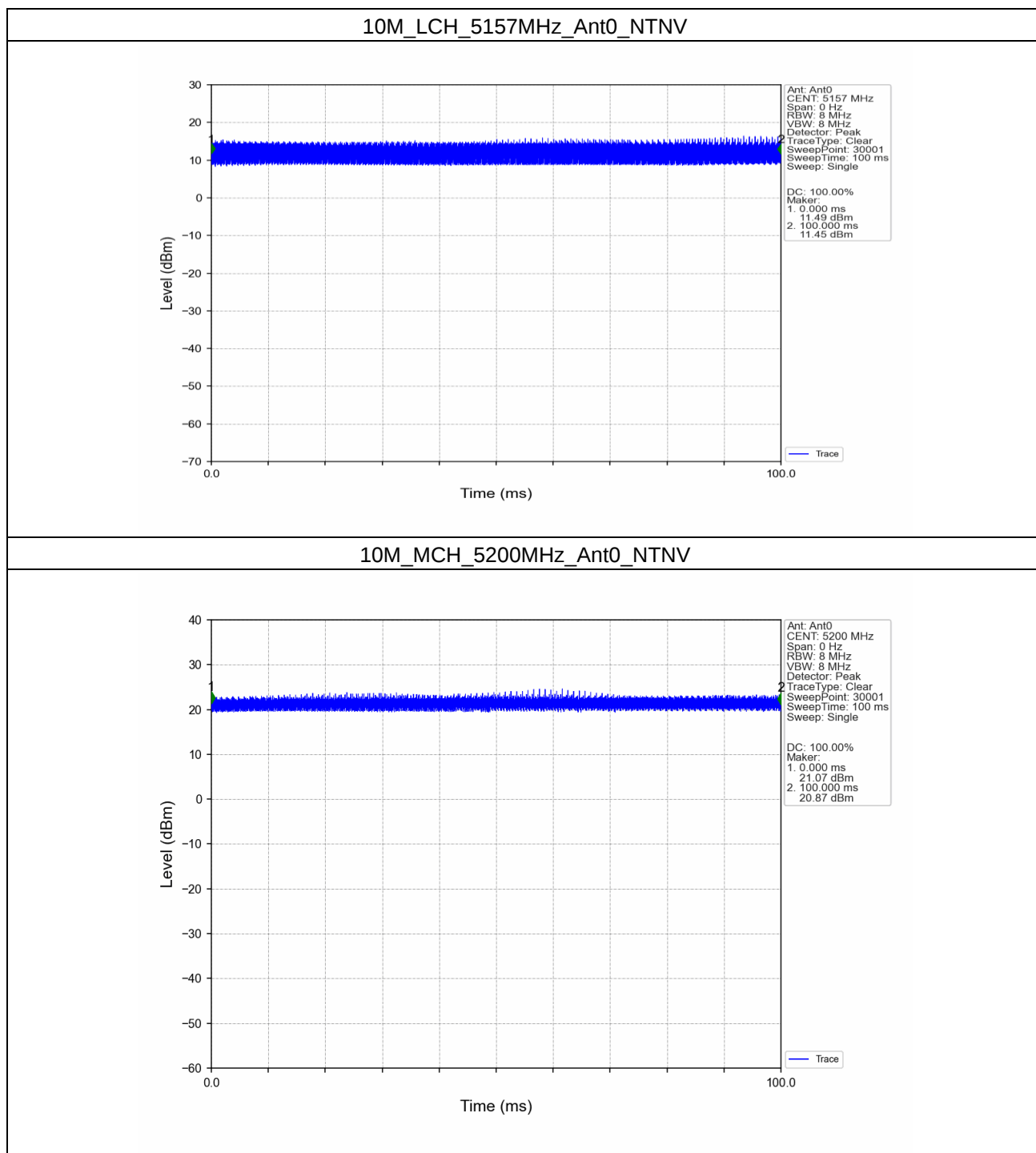
1.1.1 Ant0

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	MIMO	5157	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5161	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5170	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00



1.2 Test Graph

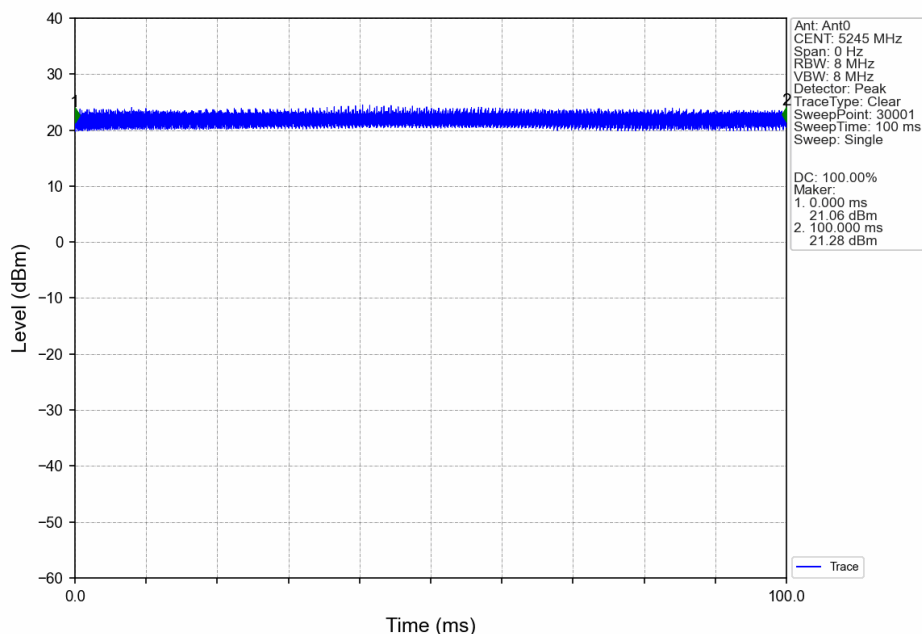
1.2.1 Ant0



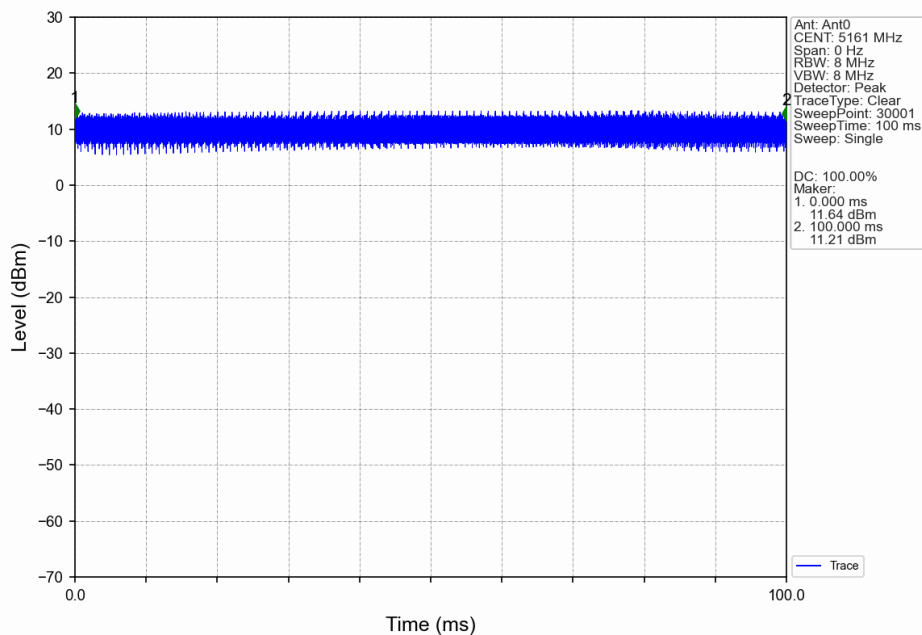
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10M_HCH_5245MHz_Ant0_NTNV



20M_LCH_5161MHz_Ant0_NTNV



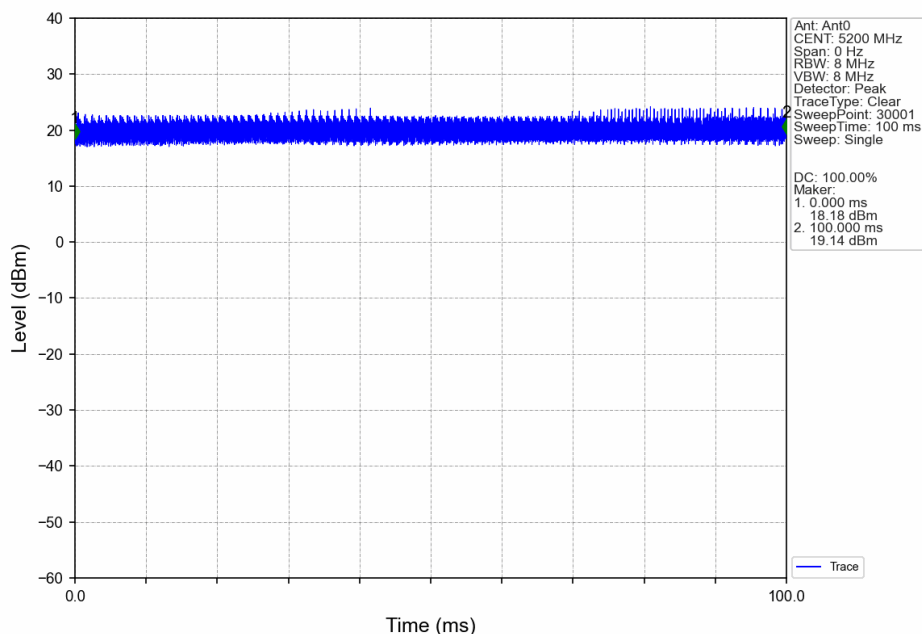
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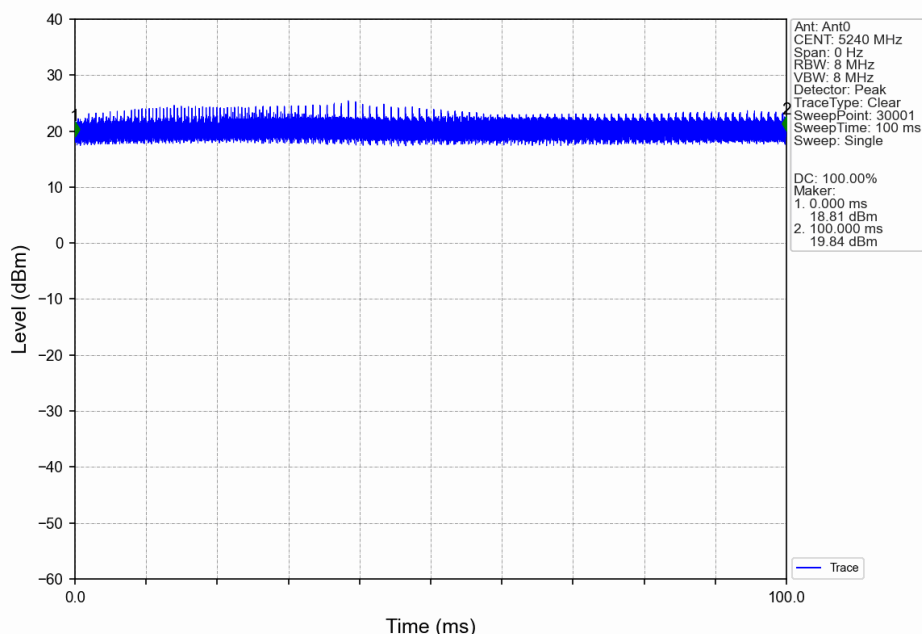
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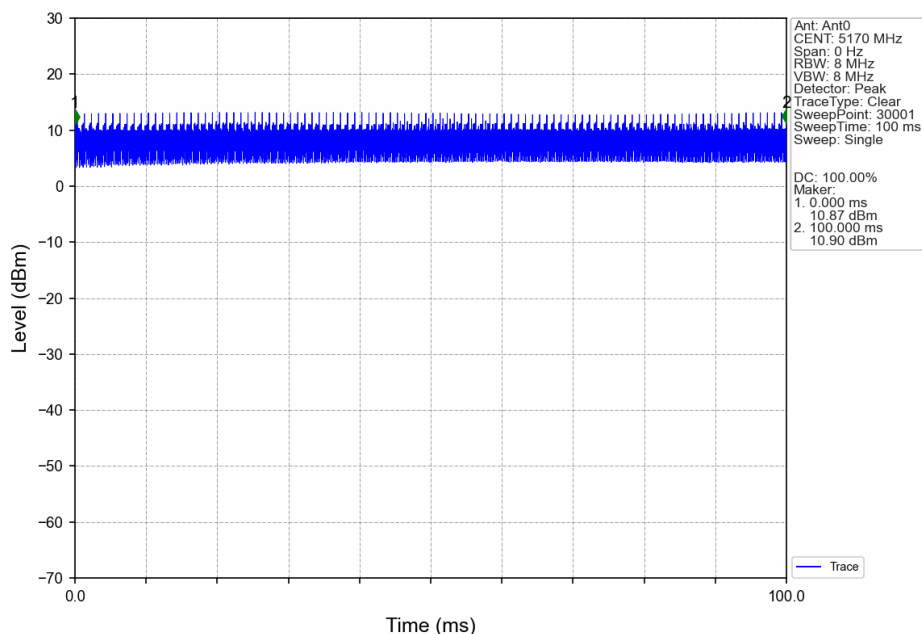
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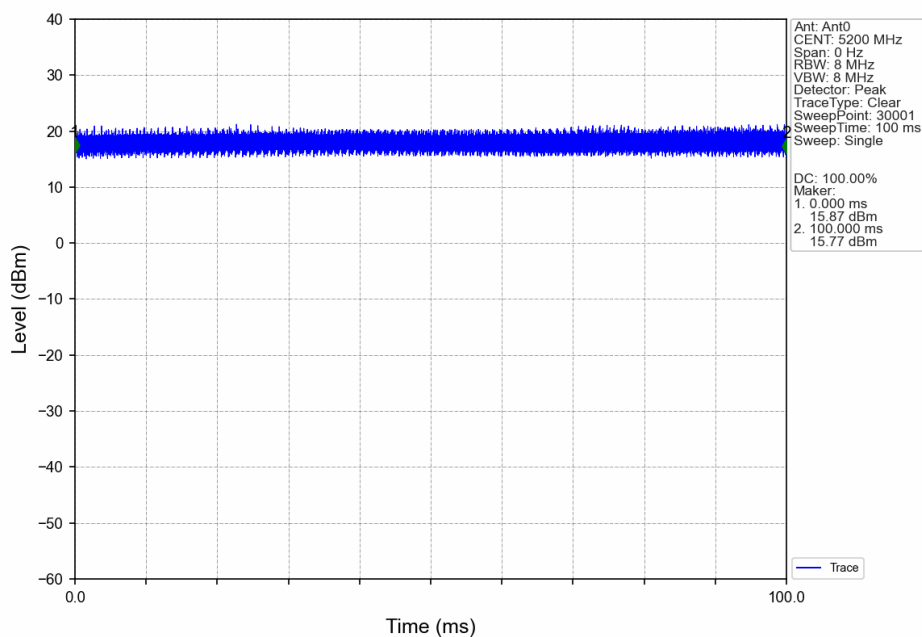
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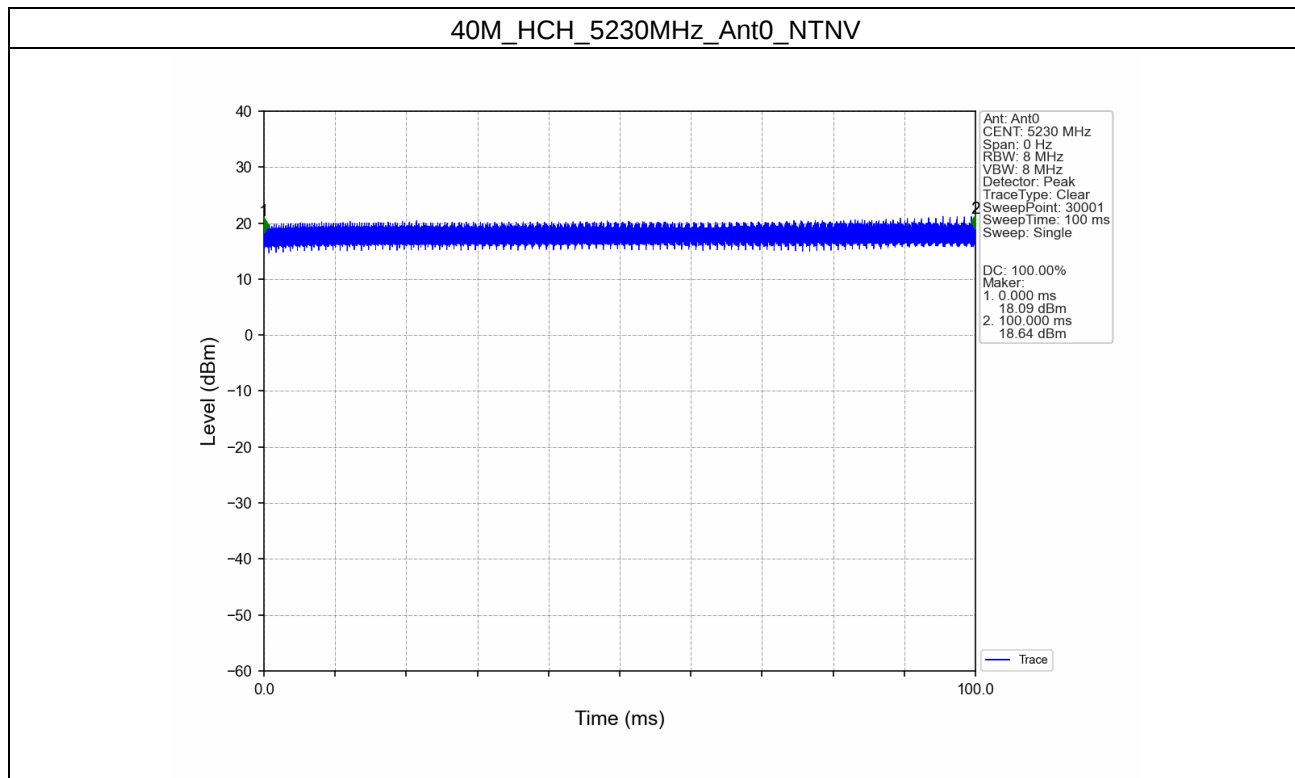


40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

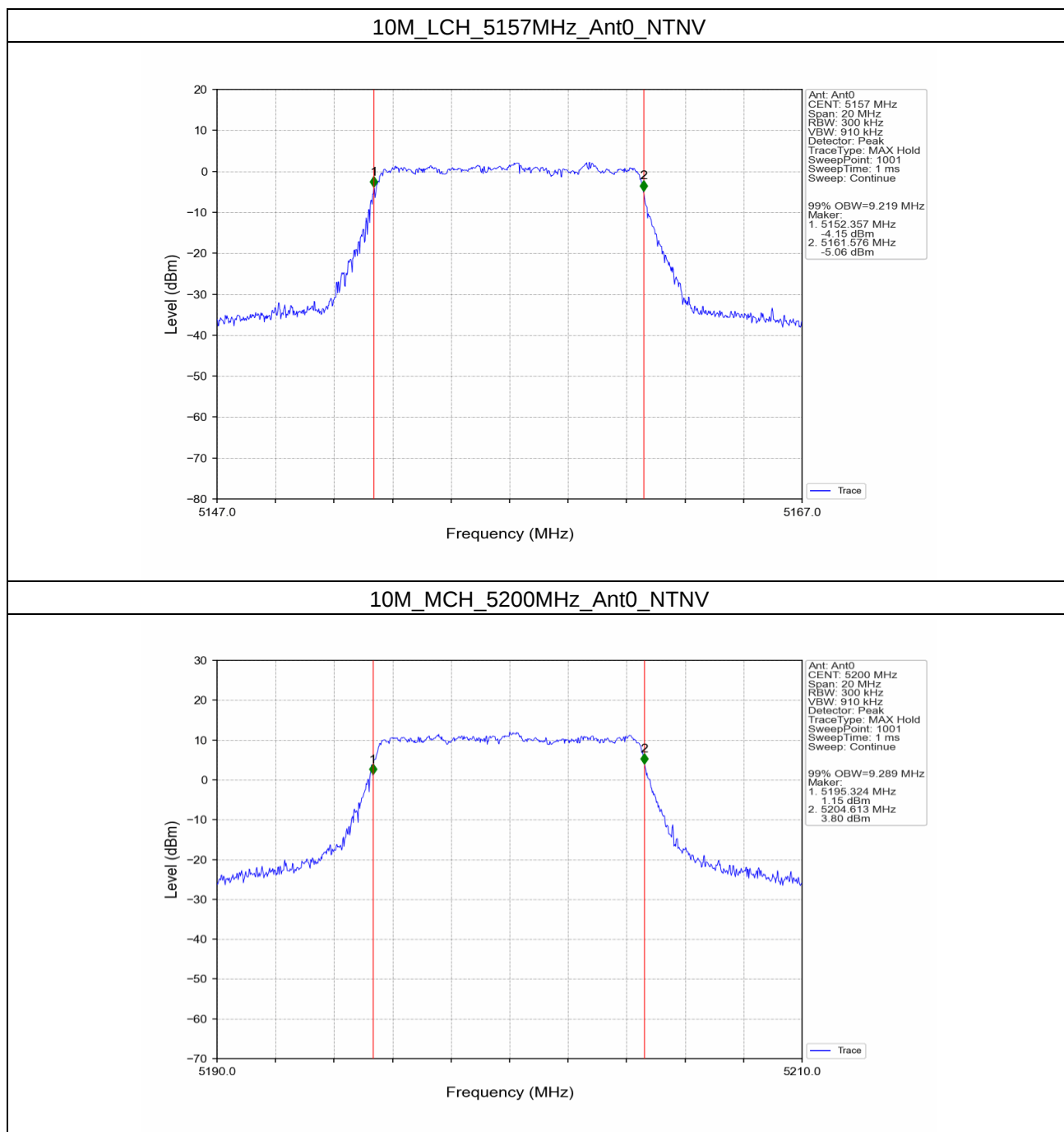
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	0	9.219	/	Pass
		5200	0	9.289	/	Pass
		5245	0	9.245	/	Pass
20M	MIMO	5161	0	18.030	/	Pass
		5200	0	17.839	/	Pass
		5240	0	17.829	/	Pass
40M	MIMO	5170	0	36.083	/	Pass
		5200	0	31.344	/	Pass
		5230	0	31.277	/	Pass

2.1.2 26dB BW

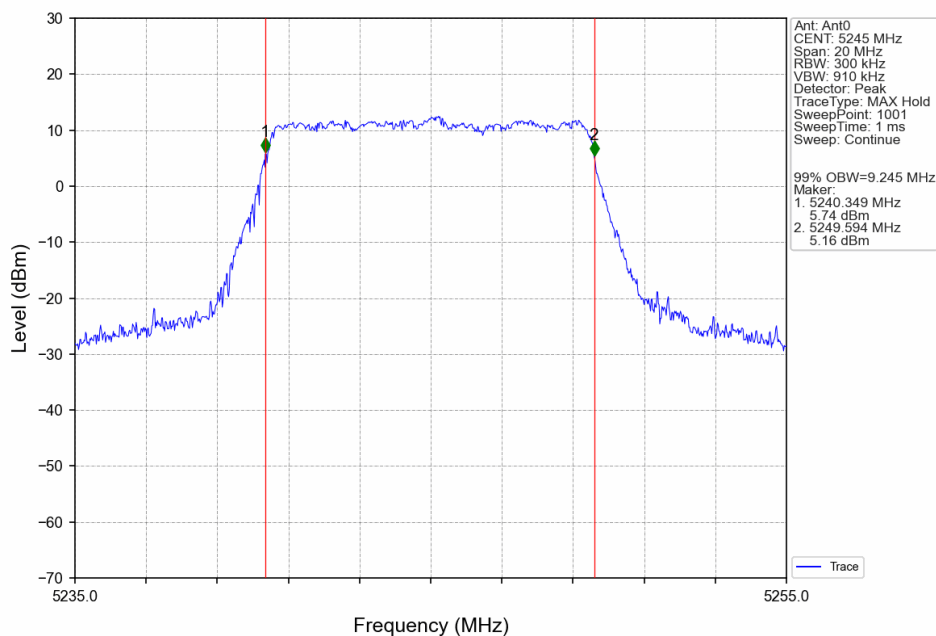
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	0	10.621	/	Pass
		5200	0	10.703	/	Pass
		5245	0	10.564	/	Pass
20M	MIMO	5161	0	19.198	/	Pass
		5200	0	19.027	/	Pass
		5240	0	18.909	/	Pass
40M	MIMO	5170	0	37.826	/	Pass
		5200	0	36.549	/	Pass
		5230	0	36.545	/	Pass

2.2 Test Graph

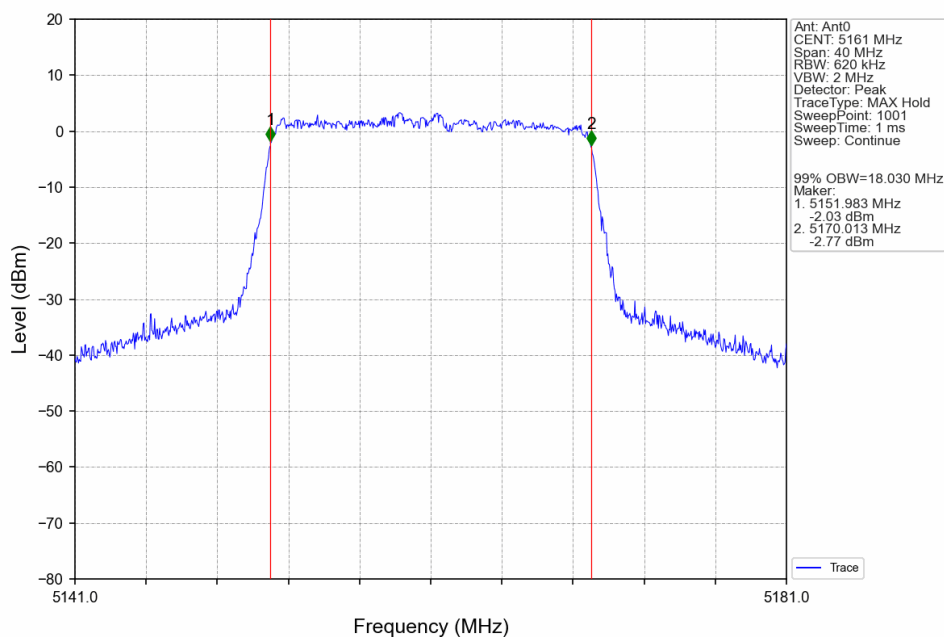
2.2.1 OBW



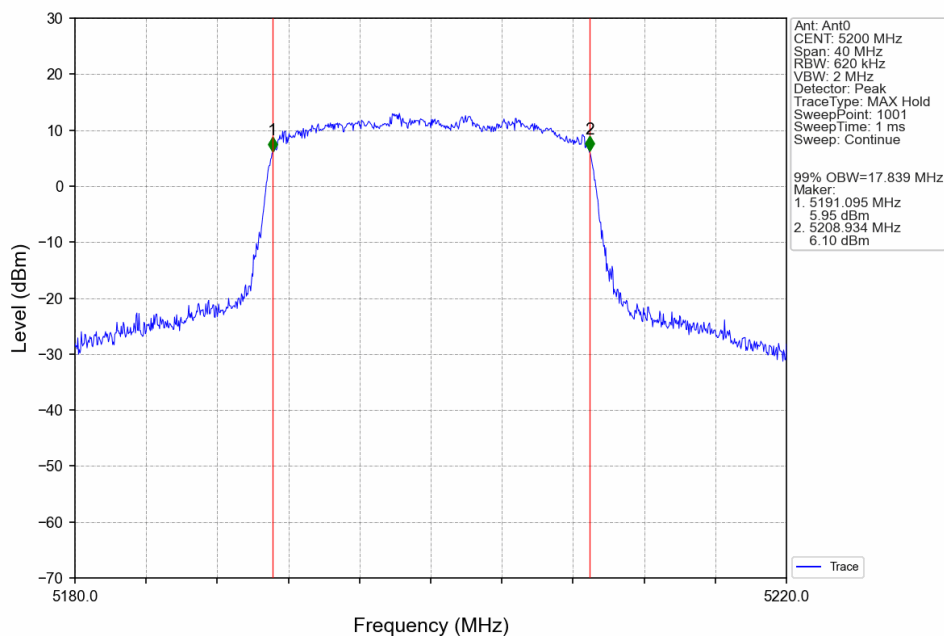
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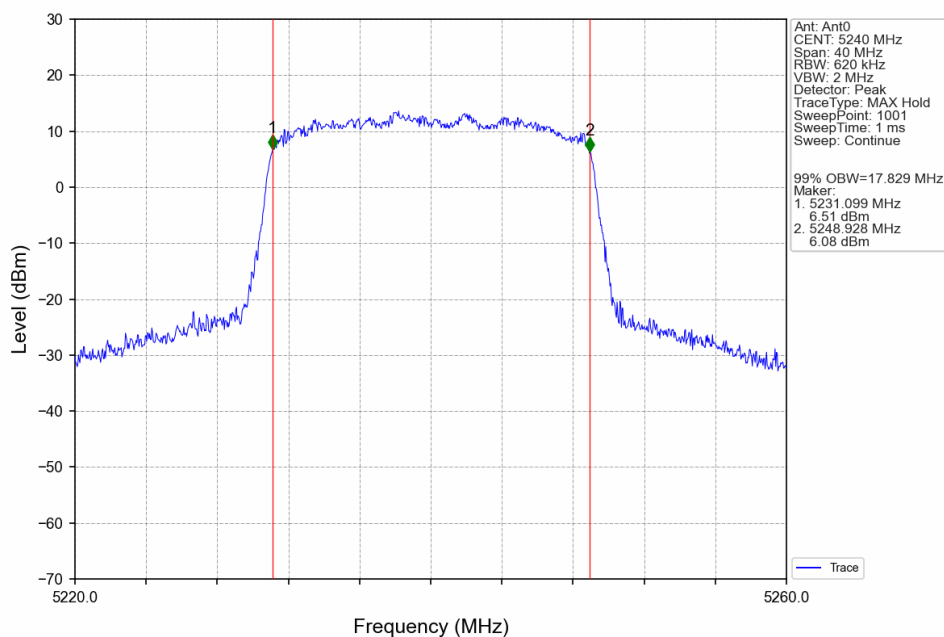
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20M_MCH_5200MHz_Ant0_NTNV



20M_HCH_5240MHz_Ant0_NTNV



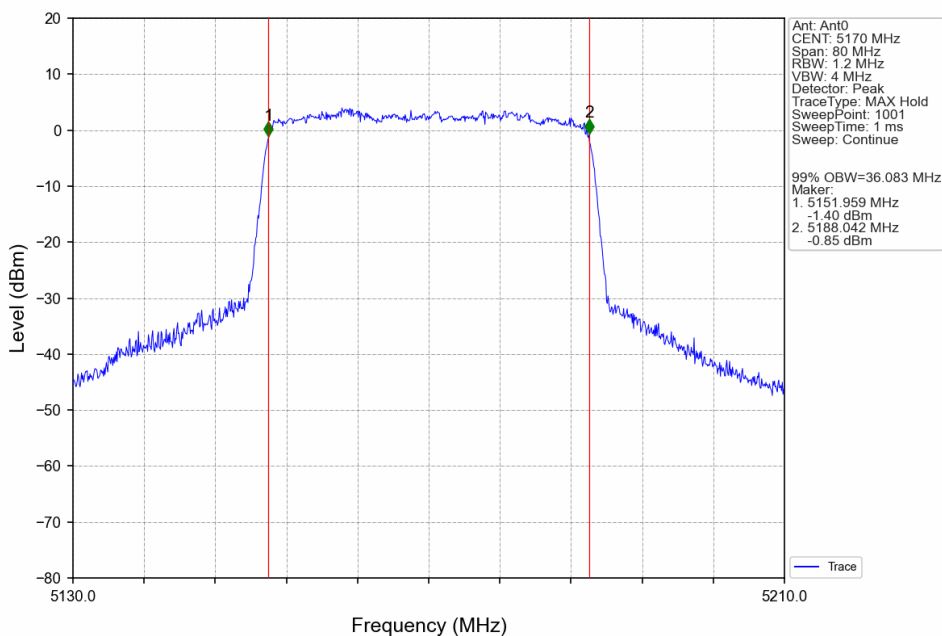
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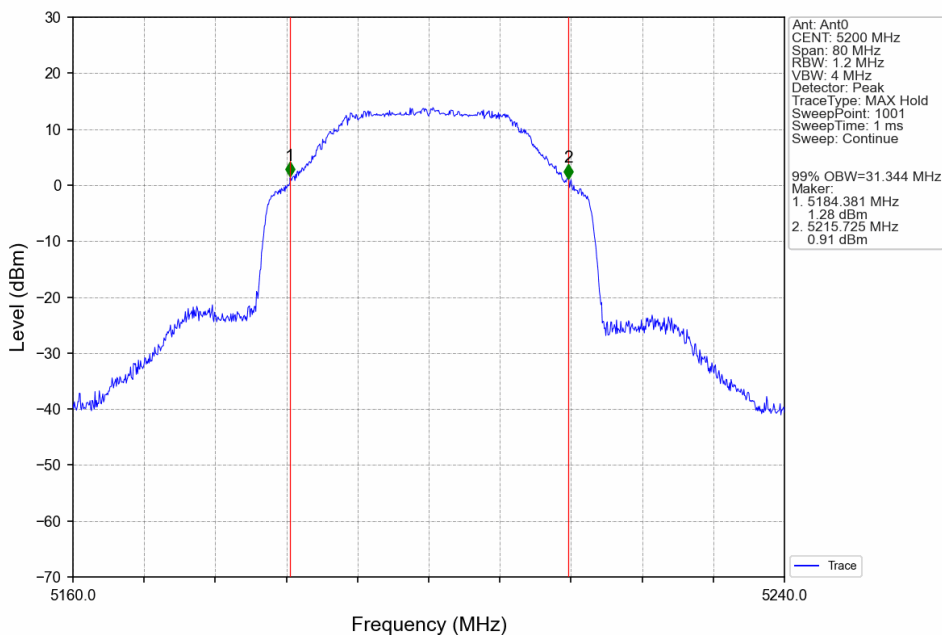
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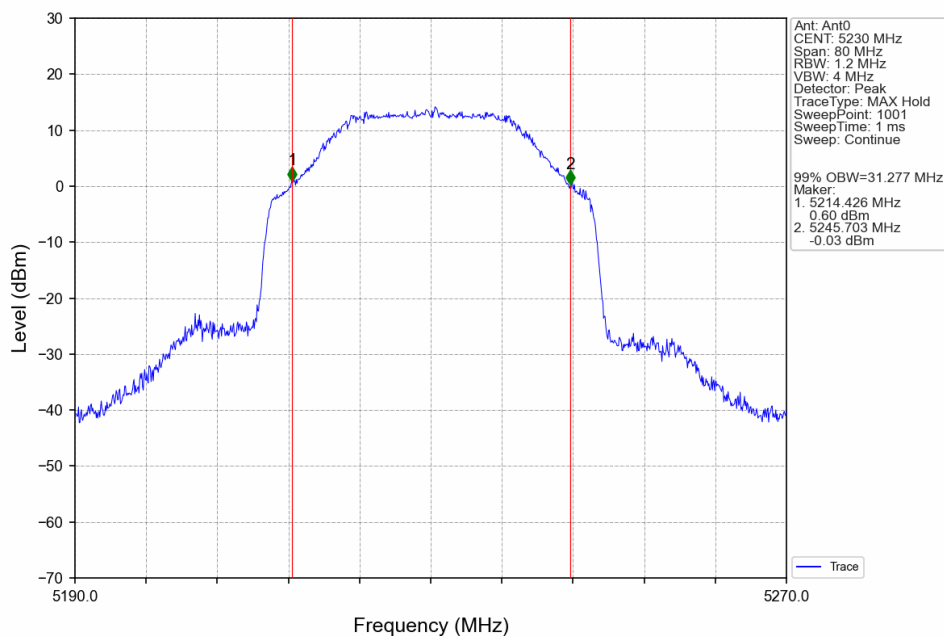
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40M_MCH_5200MHz_Ant0_NTNV



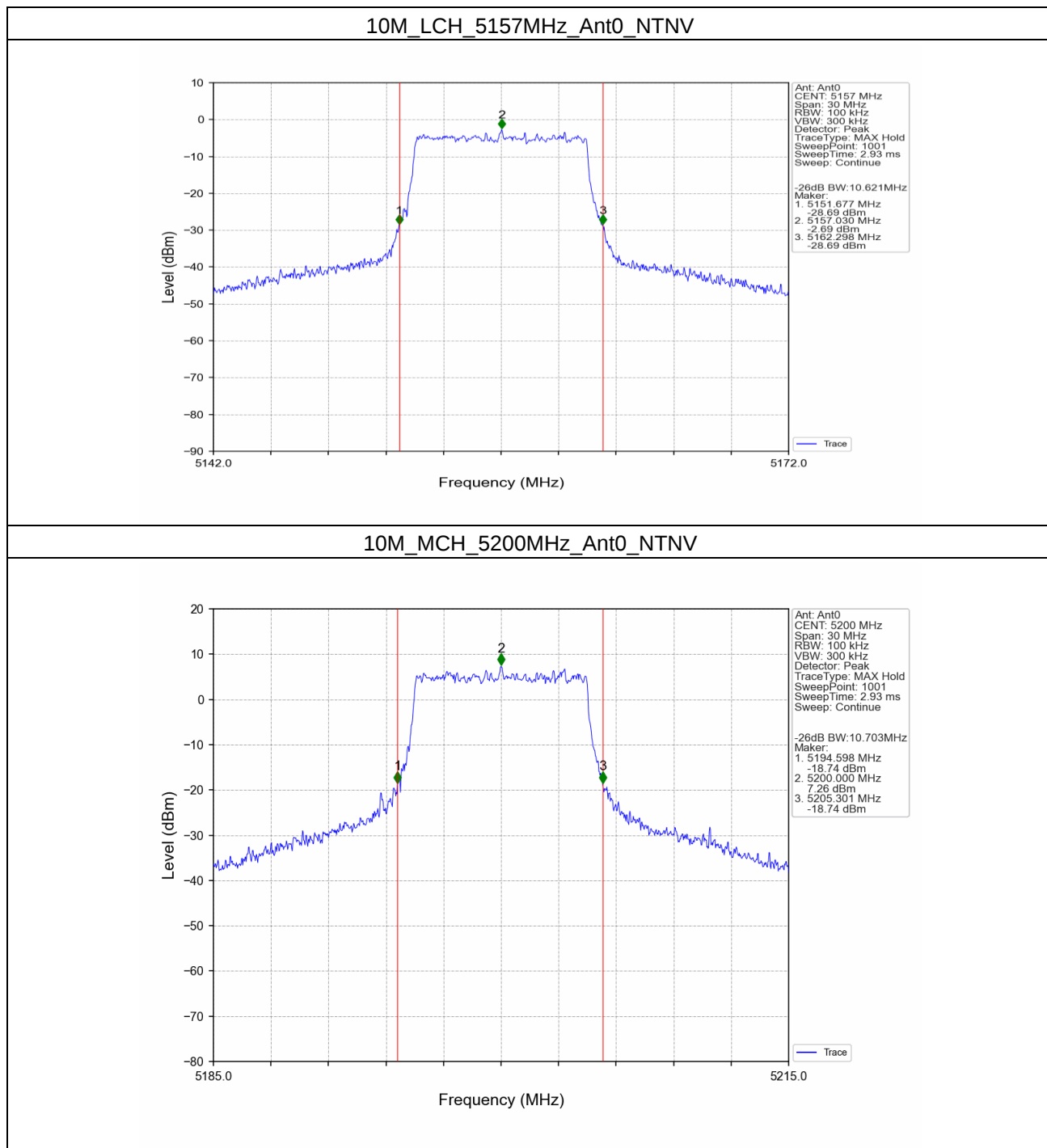
40M_HCH_5230MHz_Ant0_NTNV



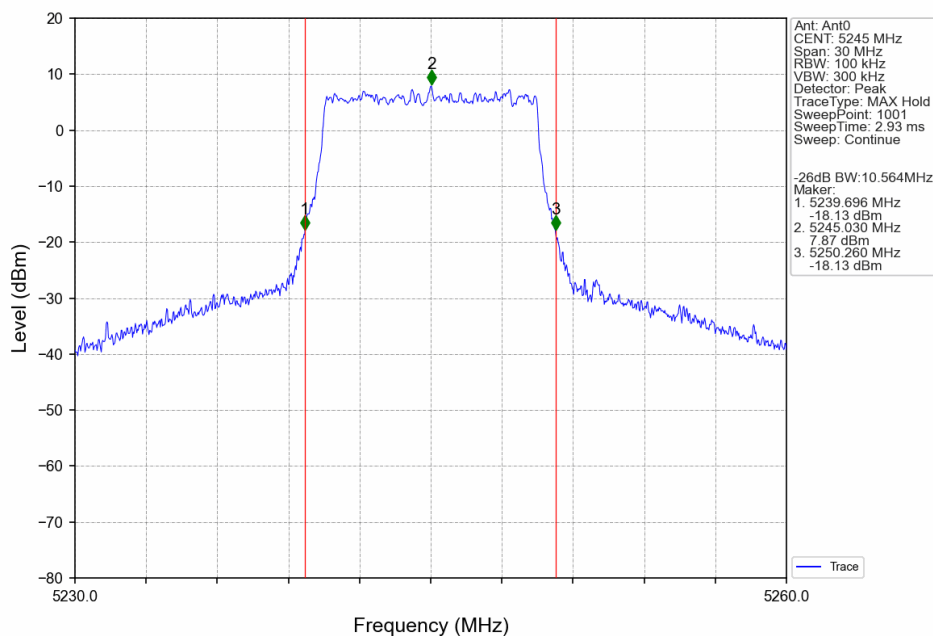
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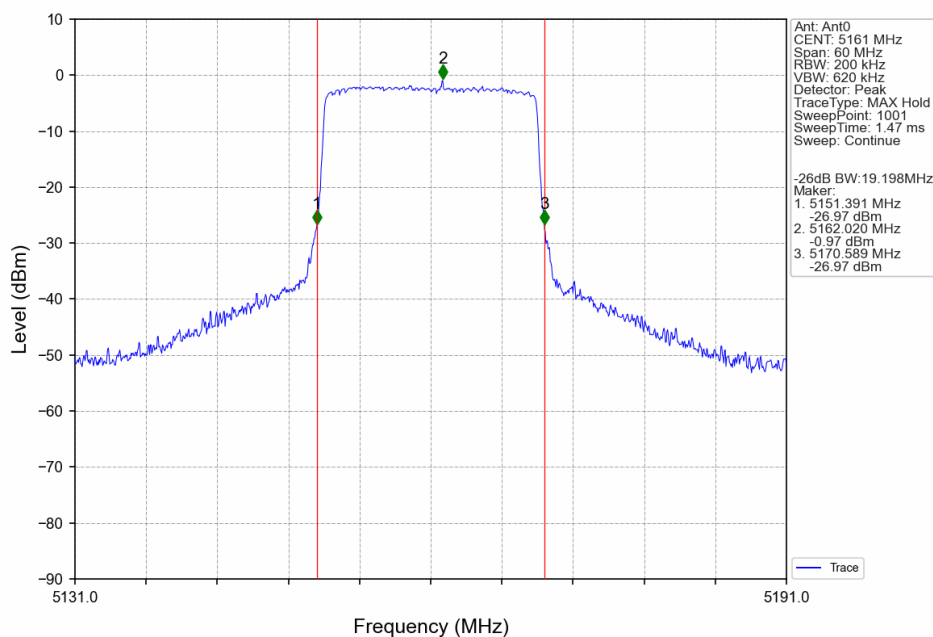
2.2.2 26dB BW



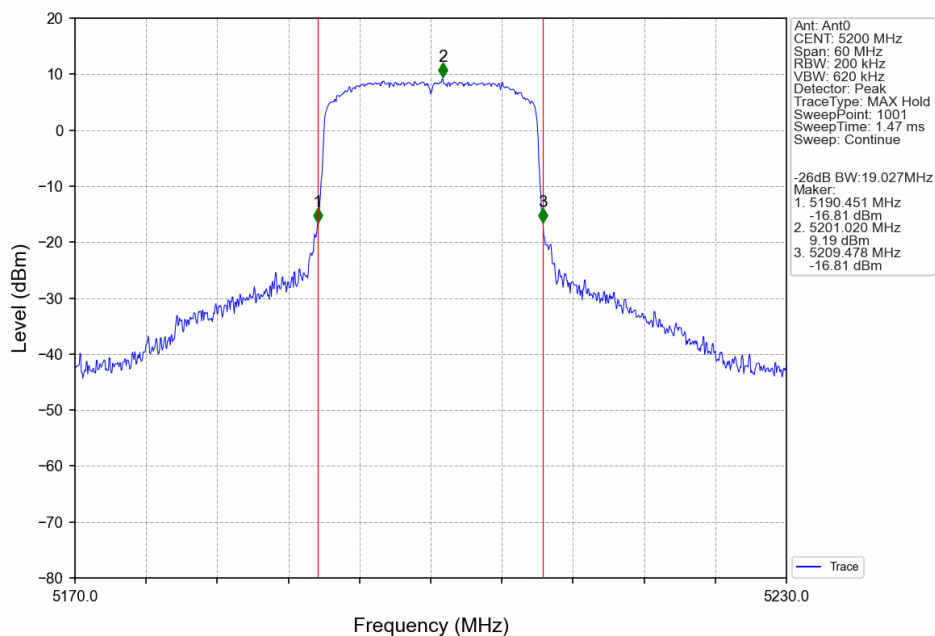
10M_HCH_5245MHz_Ant0_NTNV



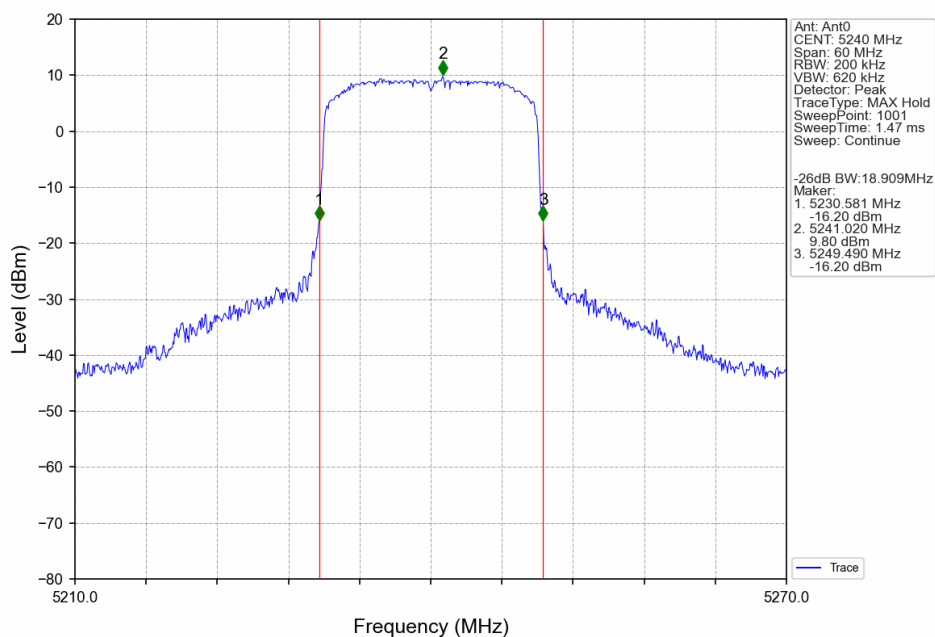
20M_LCH_5161MHz_Ant0_NTNV



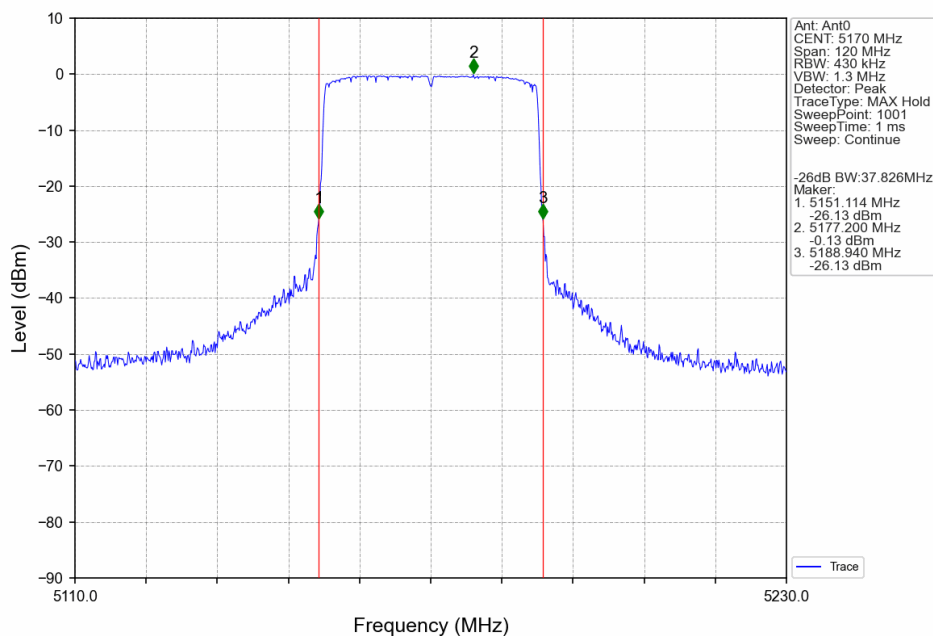
20M_MCH_5200MHz_Ant0_NTNV



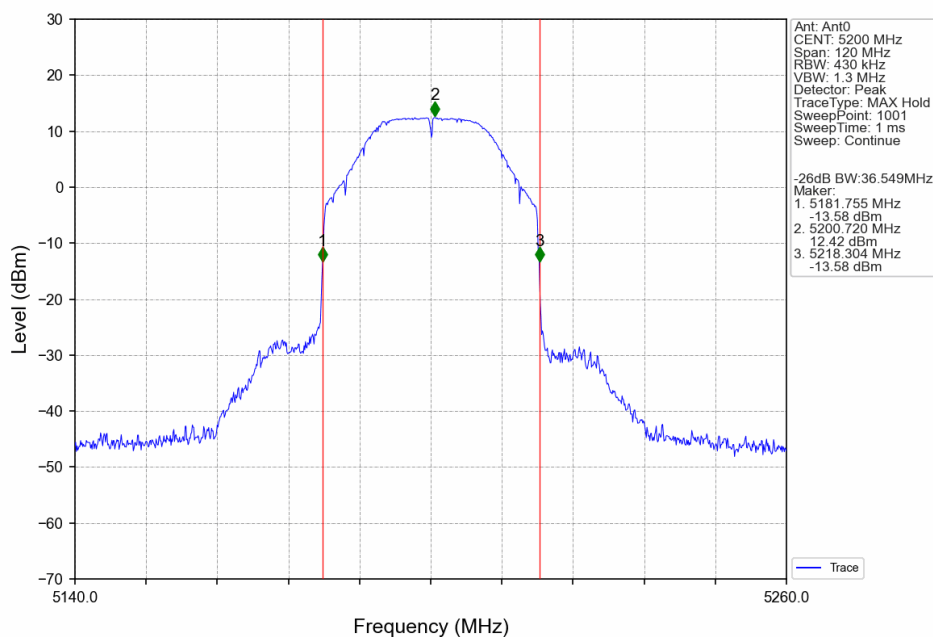
20M_HCH_5240MHz_Ant0_NTNV

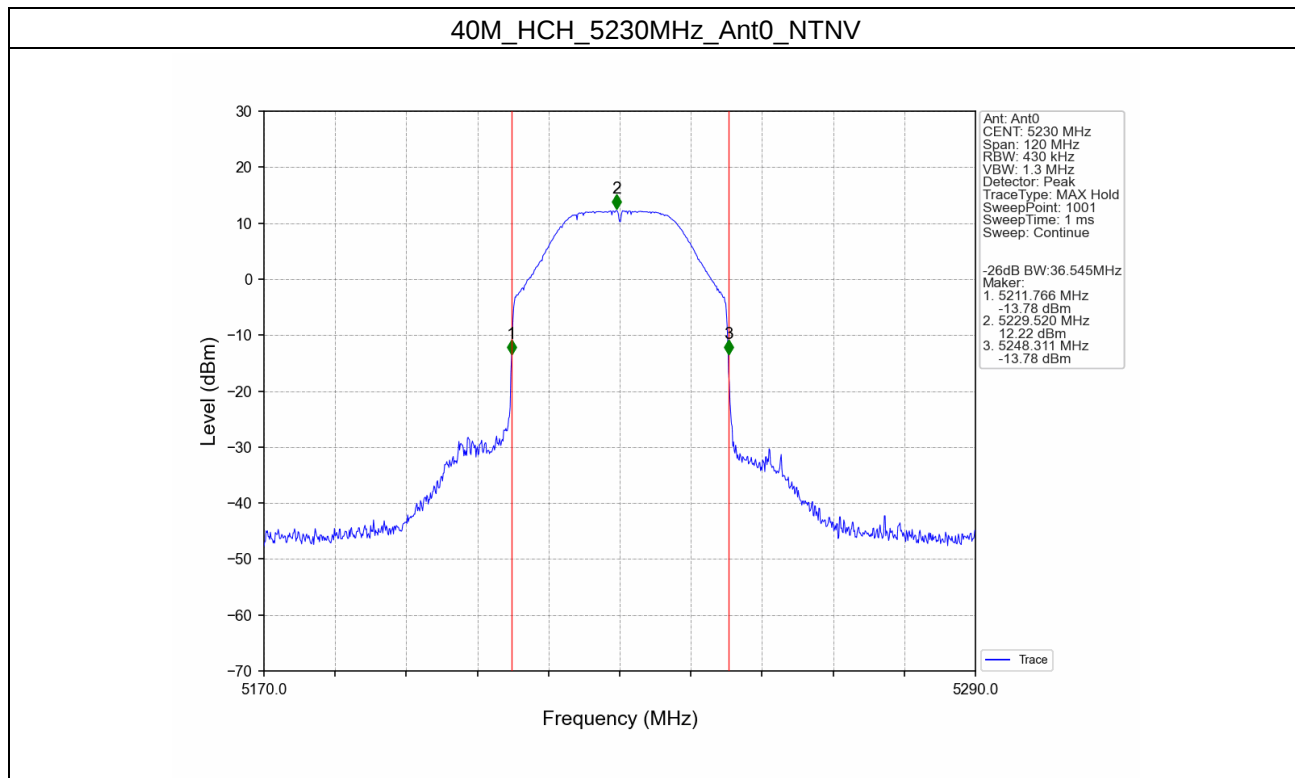


40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT0	ANT3	MIMO	Limit	
10M	MIMO	5157	6.60	6.71	9.67	<=23.98	Pass
		5200	16.54	15.77	19.18	<=23.98	Pass
		5245	17.27	14.36	19.06	<=23.98	Pass
20M	MIMO	5161	7.29	7.45	10.38	<=23.98	Pass
		5200	16.77	15.97	19.40	<=23.98	Pass
		5240	17.39	15.00	19.37	<=23.98	Pass
40M	MIMO	5170	7.83	8.88	11.40	<=23.98	Pass
		5200	16.89	15.98	19.47	<=23.98	Pass
		5230	16.82	15.76	19.33	<=23.98	Pass

4. Maximum Power Spectral Density

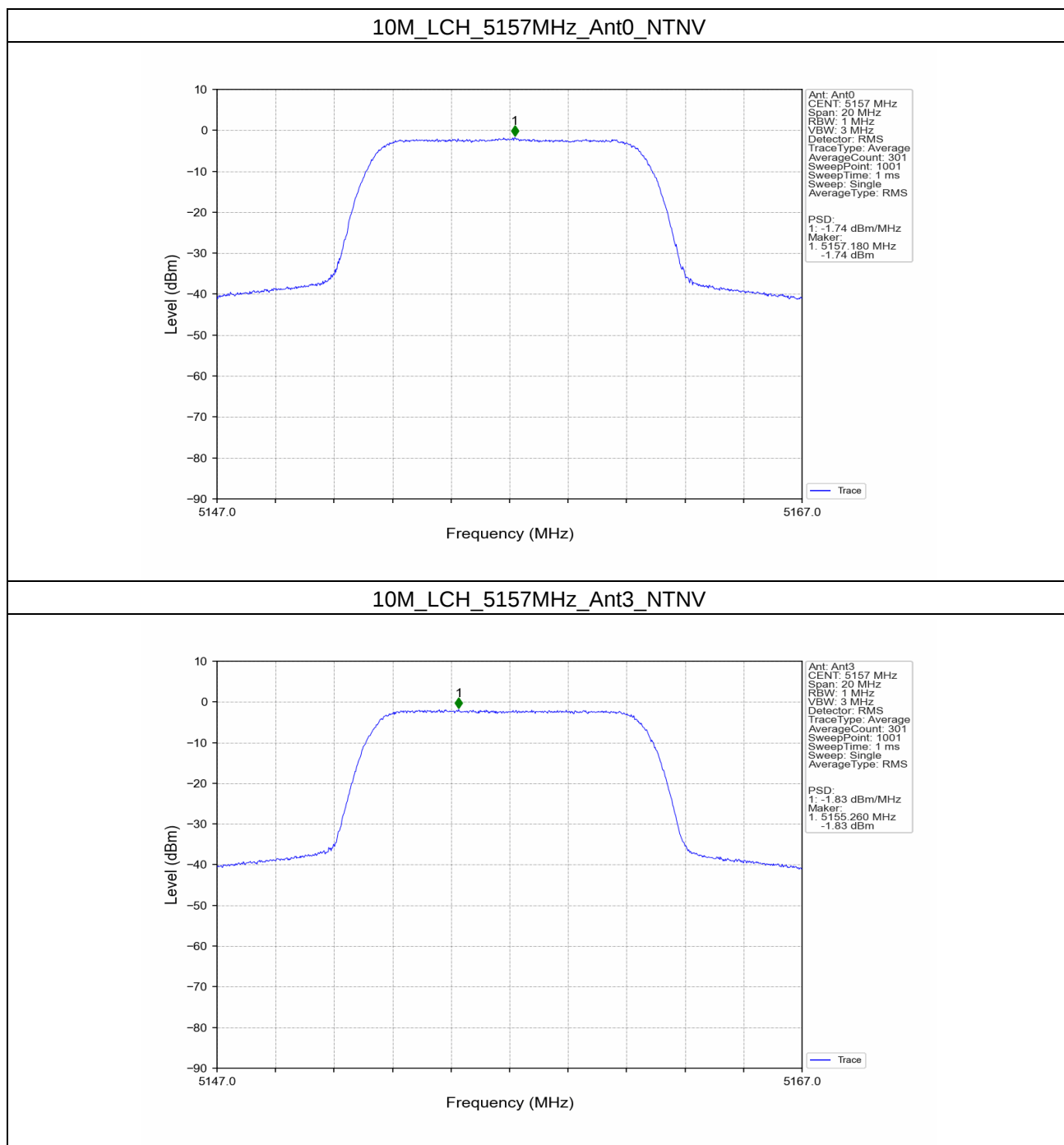
4.1 Test Result

4.1.1 PSD

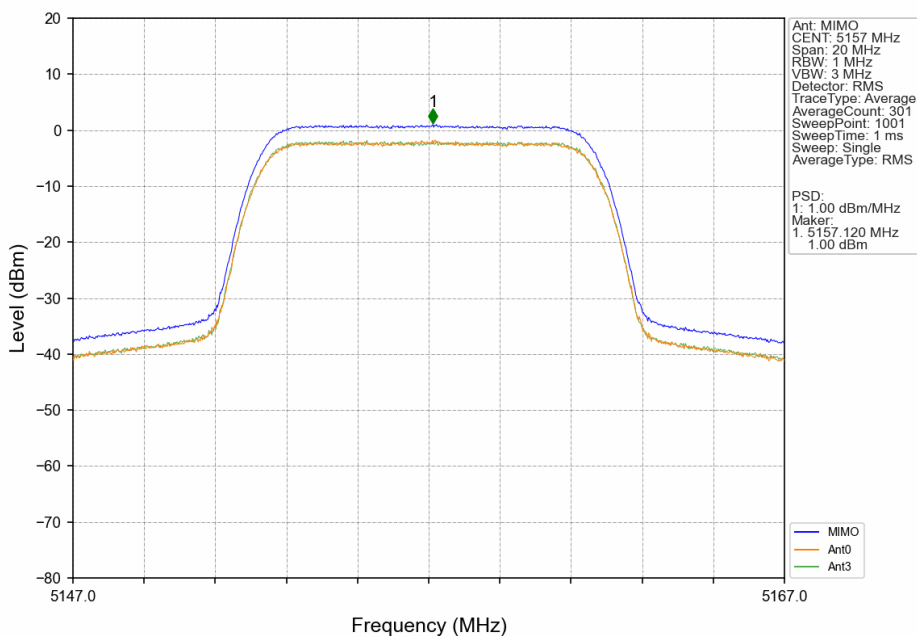
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT0	ANT3	MIMO	Limit	
10M	MIMO	5157	-1.74	-1.83	1.00	<=11	Pass
		5200	8.17	7.15	10.57	<=11	Pass
		5245	9.11	5.67	10.59	<=11	Pass
20M	MIMO	5161	-4.23	-3.98	-1.22	<=11	Pass
		5200	5.62	4.77	8.06	<=11	Pass
		5240	6.36	3.84	8.10	<=11	Pass
40M	MIMO	5170	-6.43	-5.17	-2.97	<=11	Pass
		5200	4.34	3.96	7.07	<=11	Pass
		5230	4.46	3.44	6.83	<=11	Pass

4.2 Test Graph

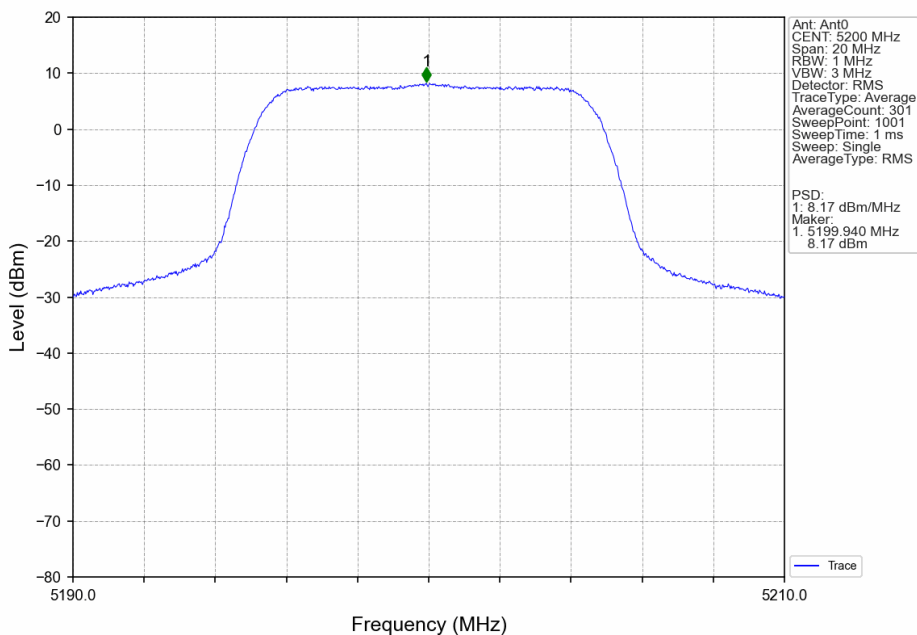
4.2.1 PSD



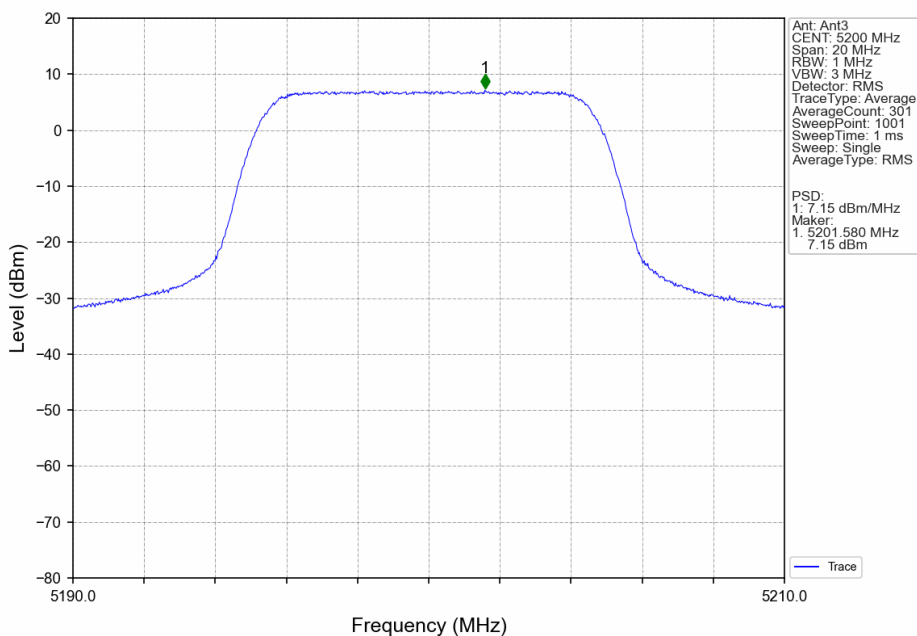
10M_LCH_5157MHz_MIMO_NTNV



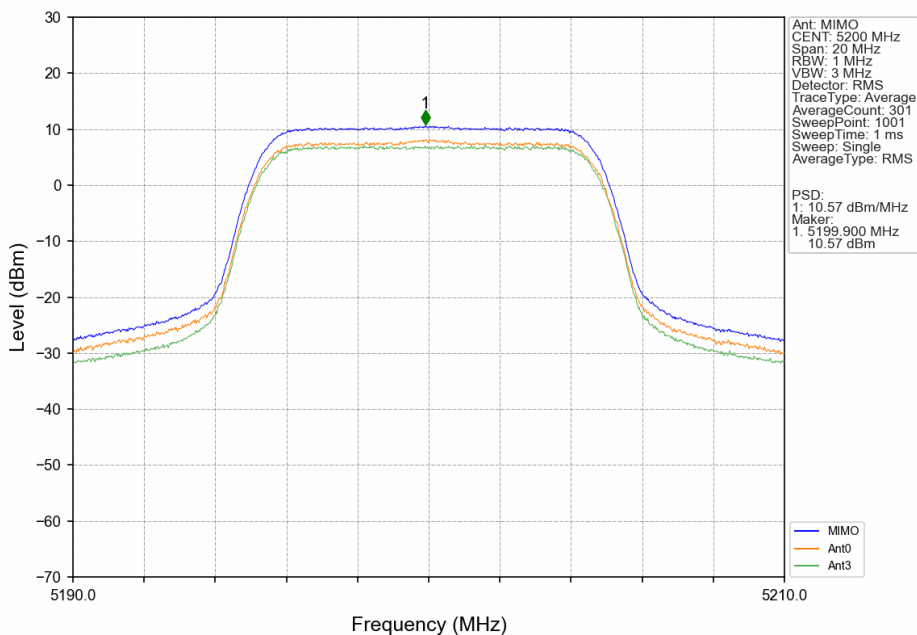
10M_MCH_5200MHz_Ant0_NTNV



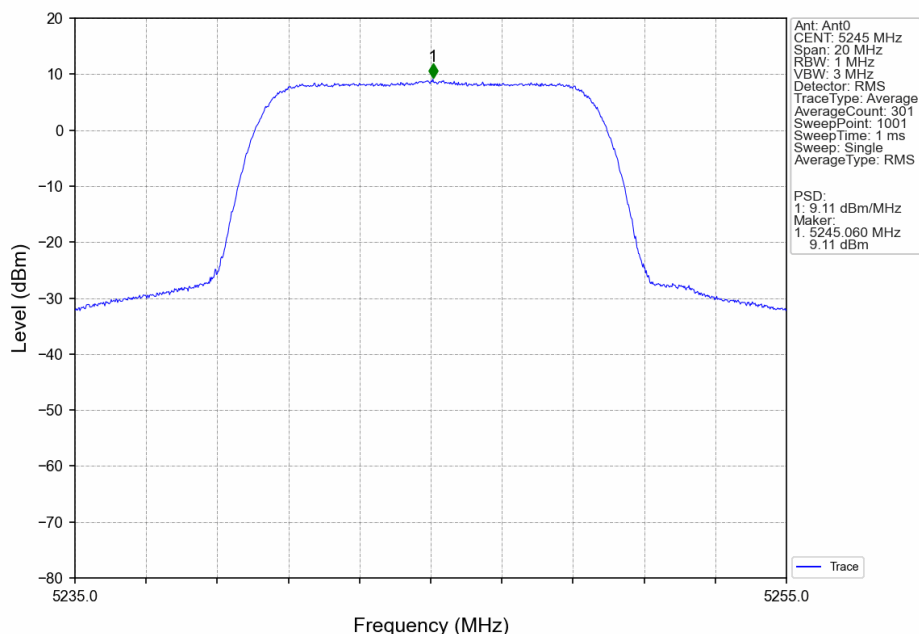
10M_MCH_5200MHz_Ant3_NTNV



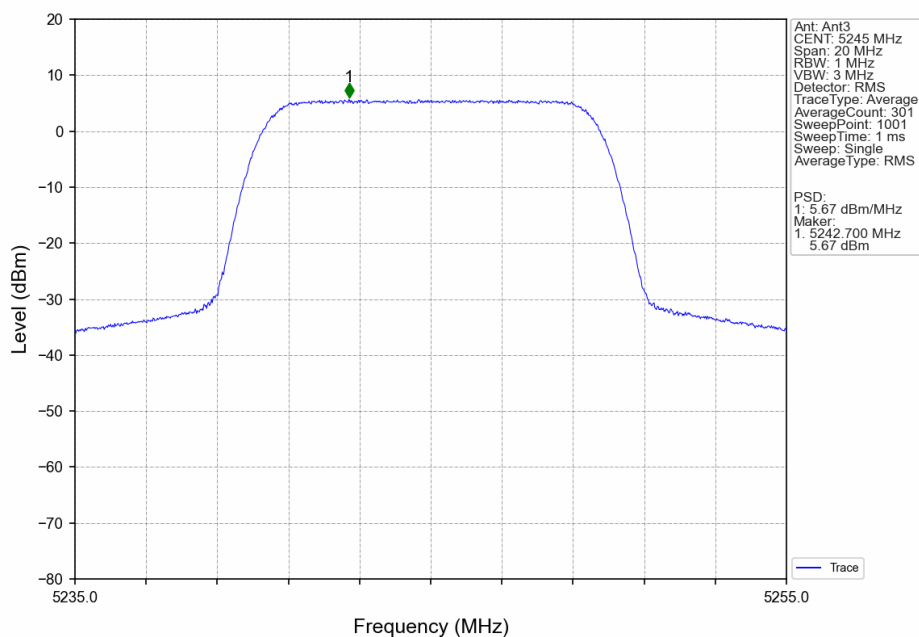
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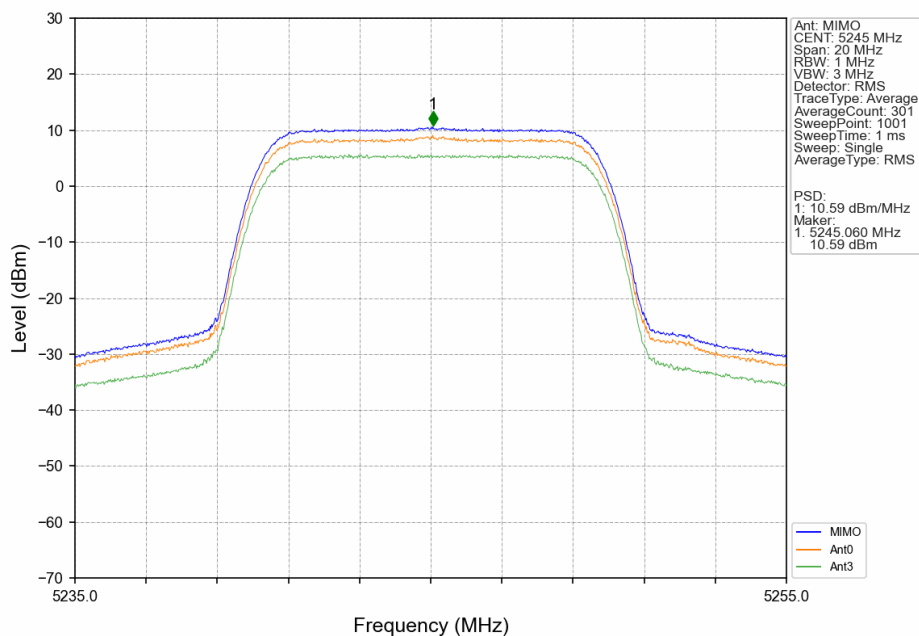
10M_HCH_5245MHz_Ant0_NTNV



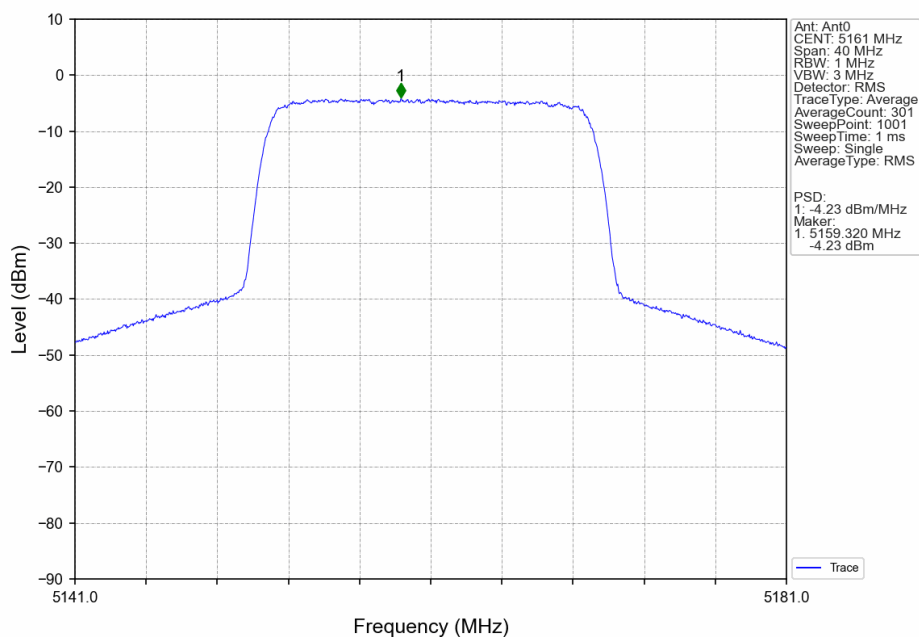
10M_HCH_5245MHz_Ant3_NTNV



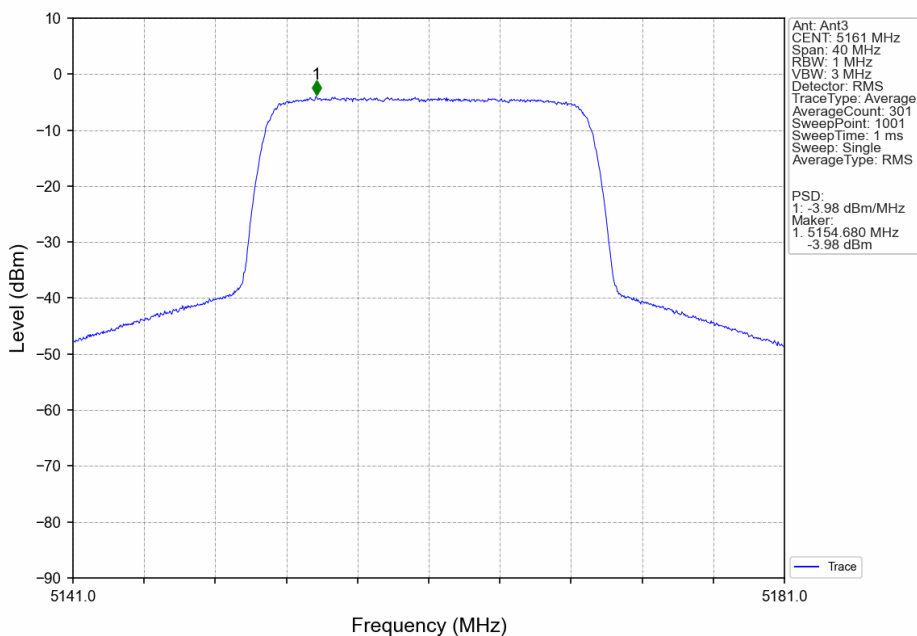
10M_HCH_5245MHz_MIMO_NTNV



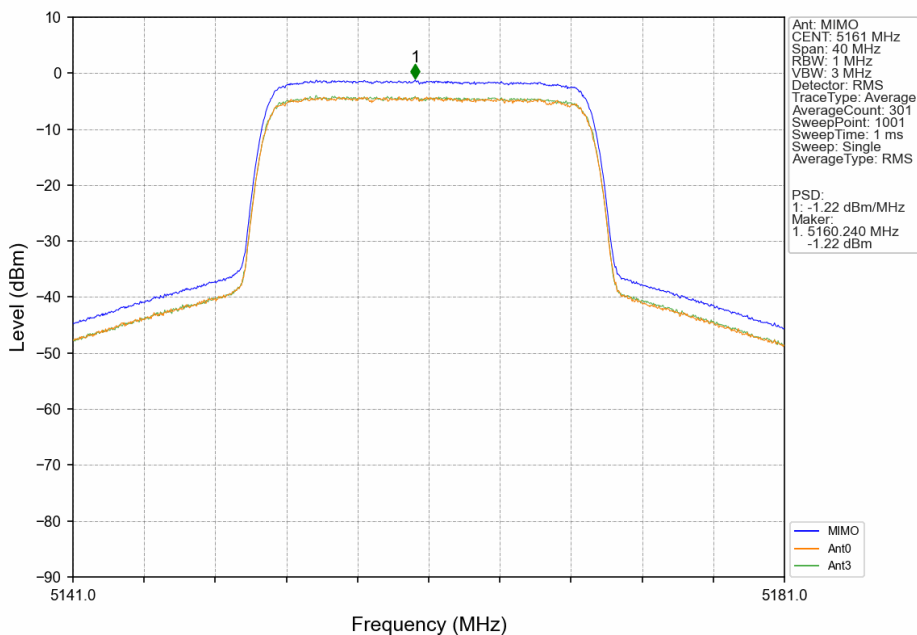
20M_LCH_5161MHz_Ant0_NTNV



20M_LCH_5161MHz_Ant3_NTNV



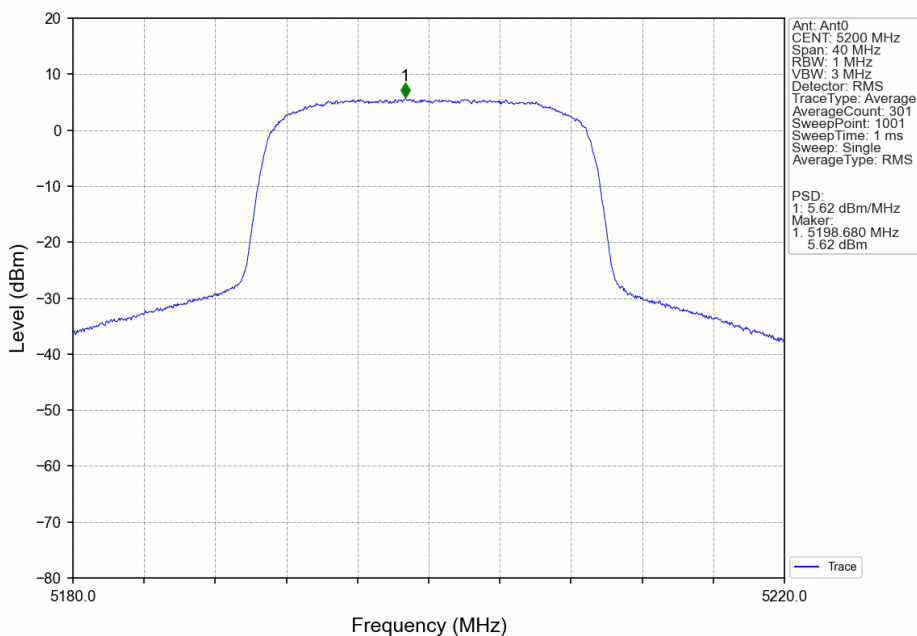
20M_LCH_5161MHz_MIMO_NTNV



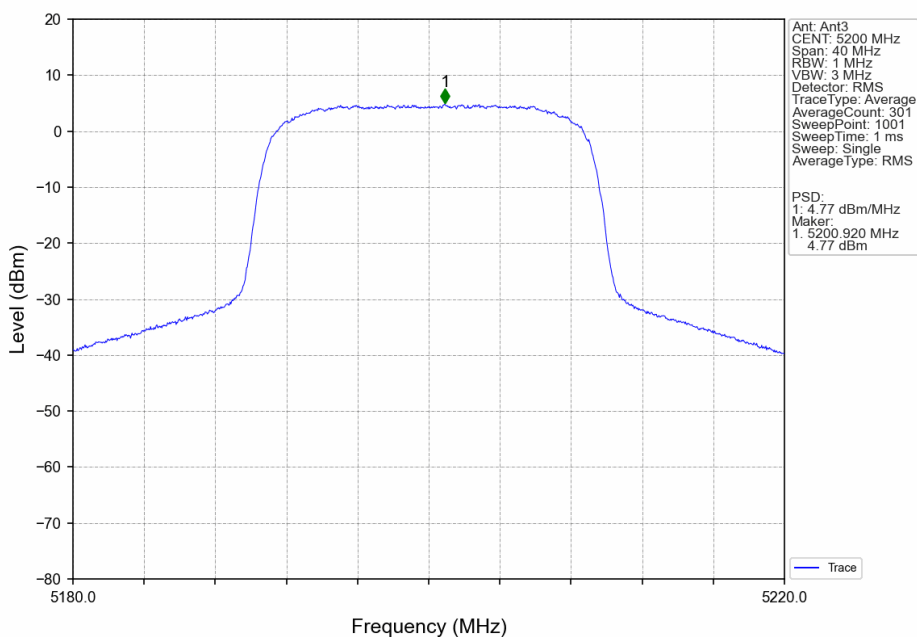
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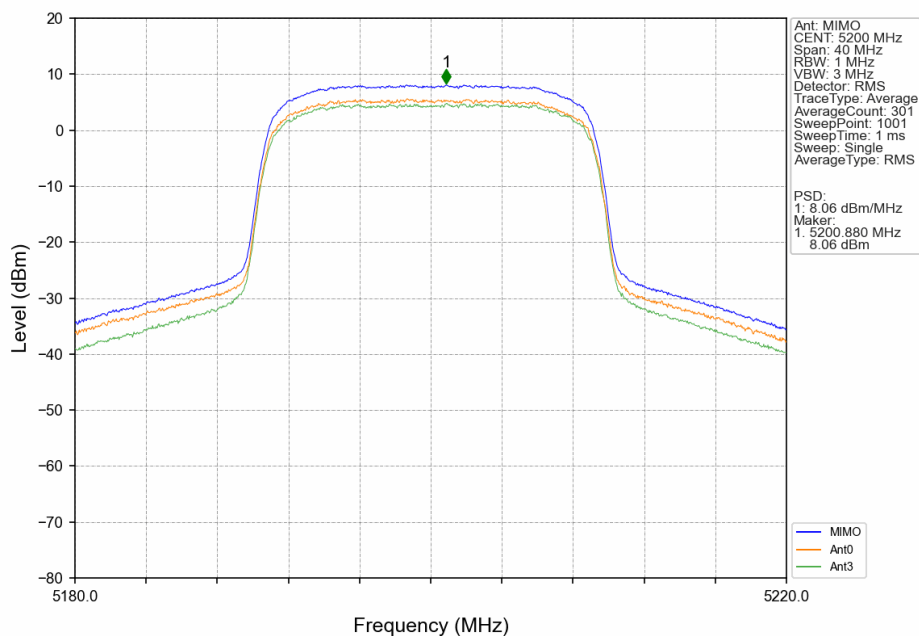
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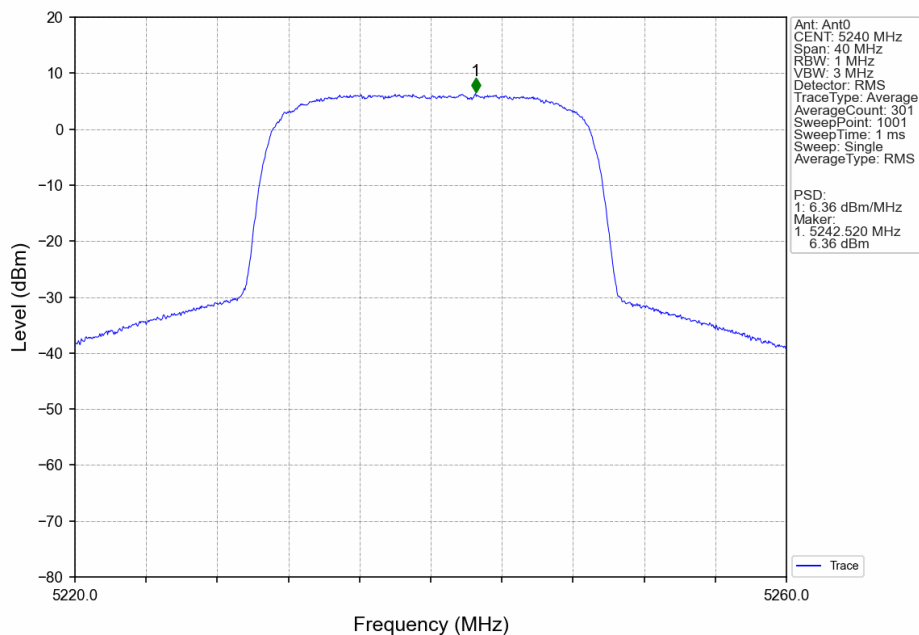
20M_MCH_5200MHz_Ant3_NTNV



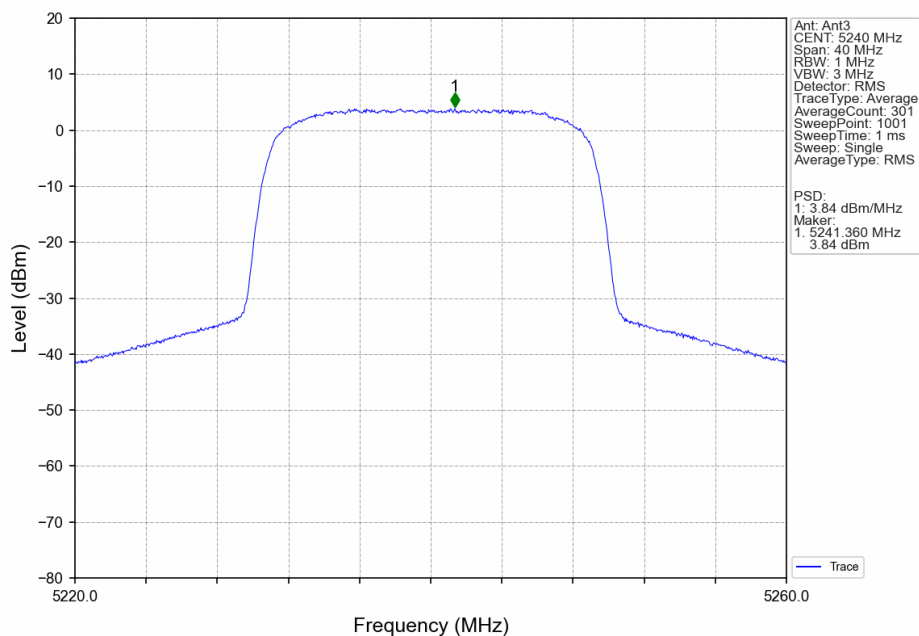
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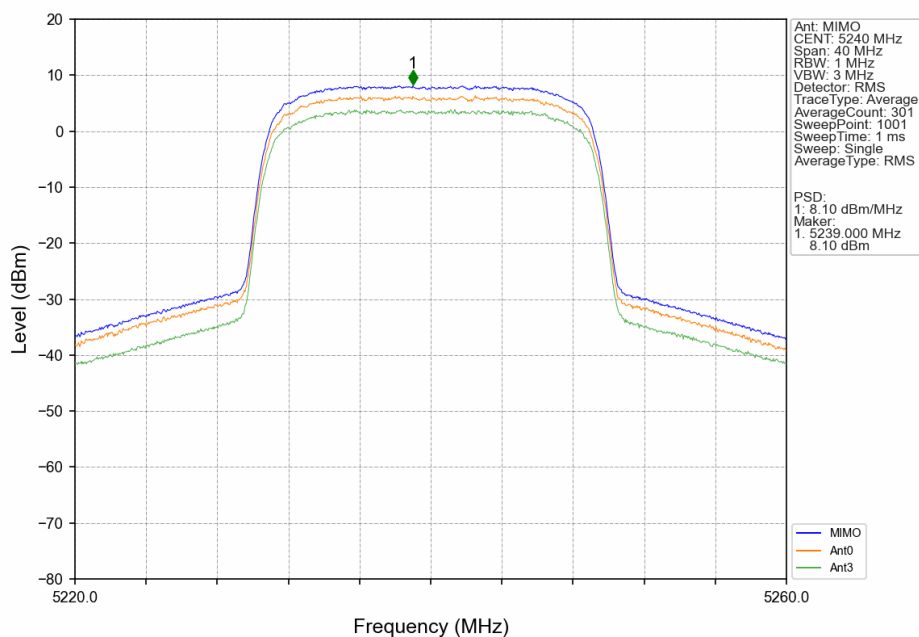
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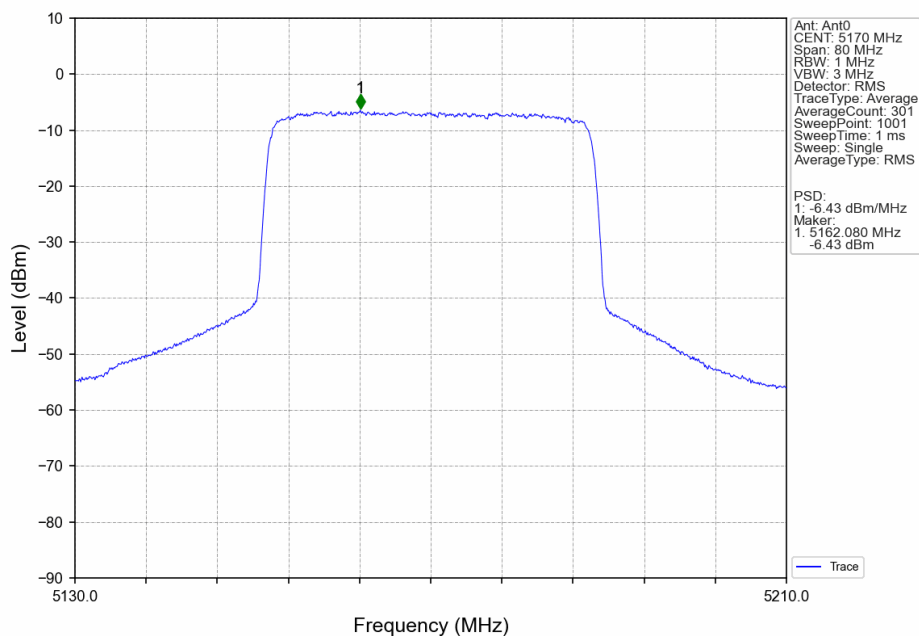
20M_HCH_5240MHz_Ant3_NTNV



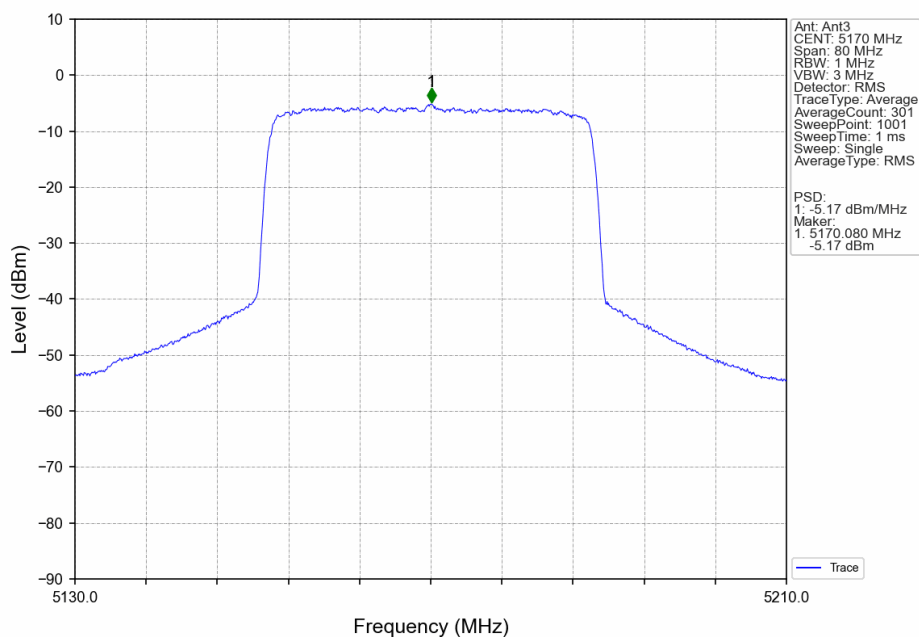
20M_HCH_5240MHz_MIMO_NTNV



40M_LCH_5170MHz_Ant0_NTNV



40M_LCH_5170MHz_Ant3_NTNV



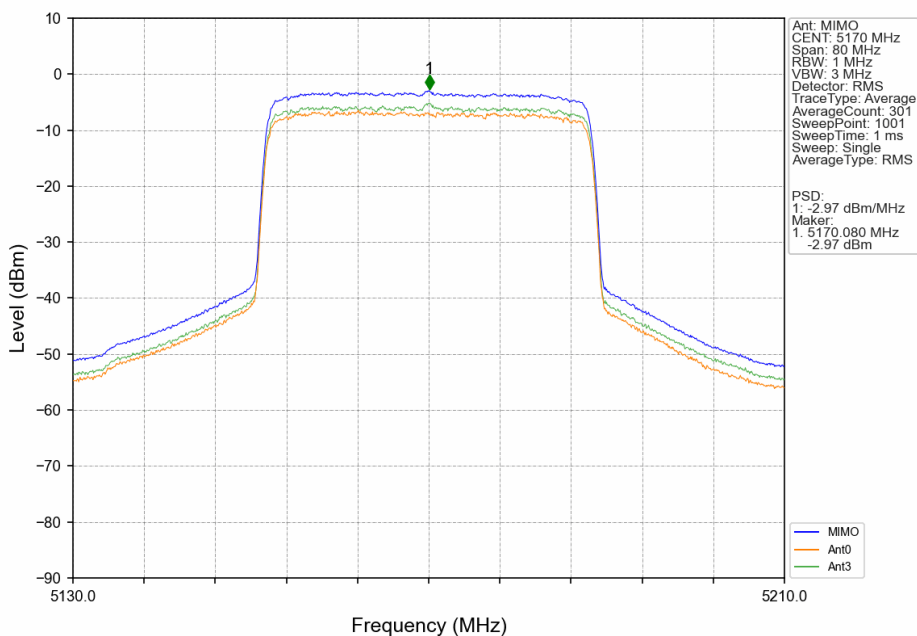
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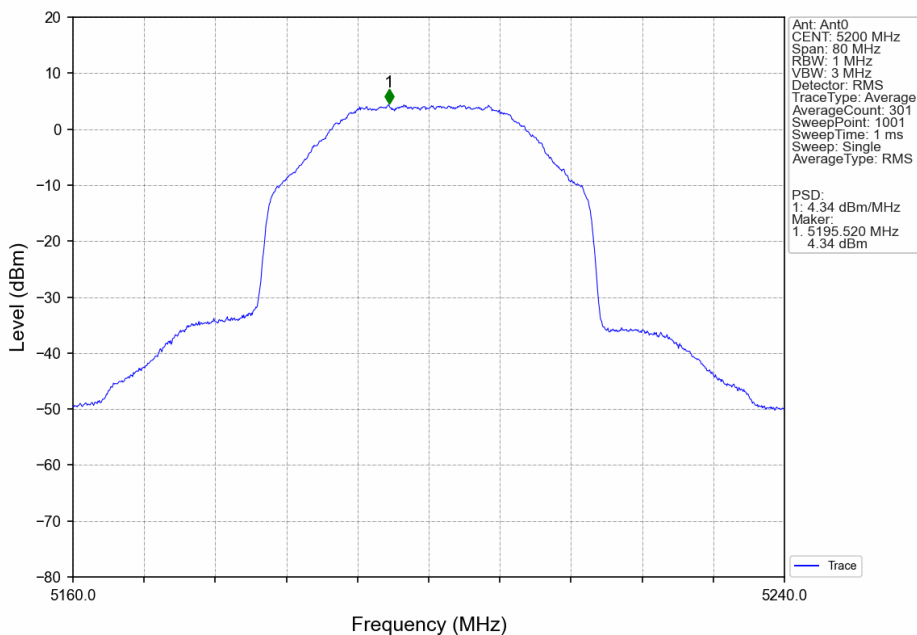
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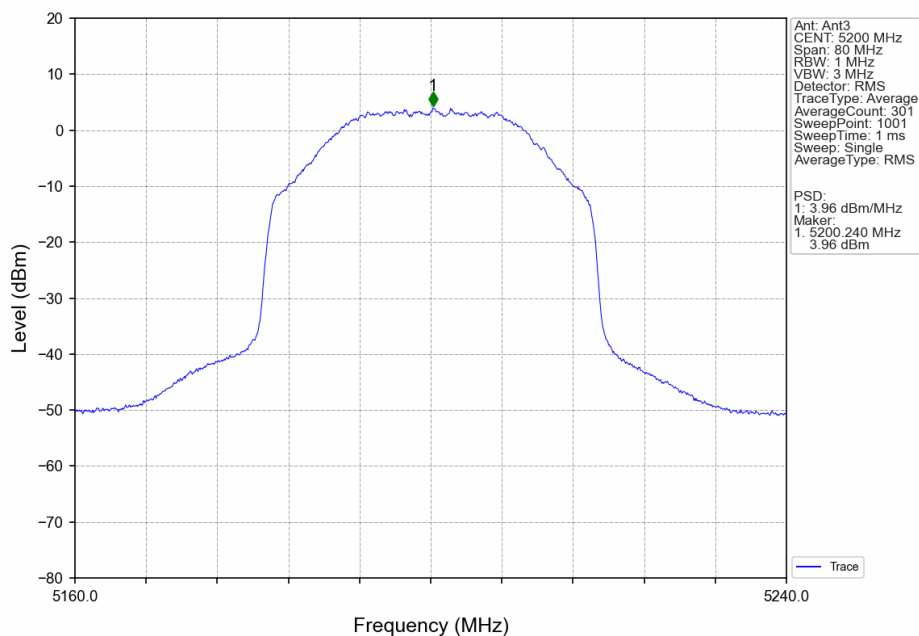
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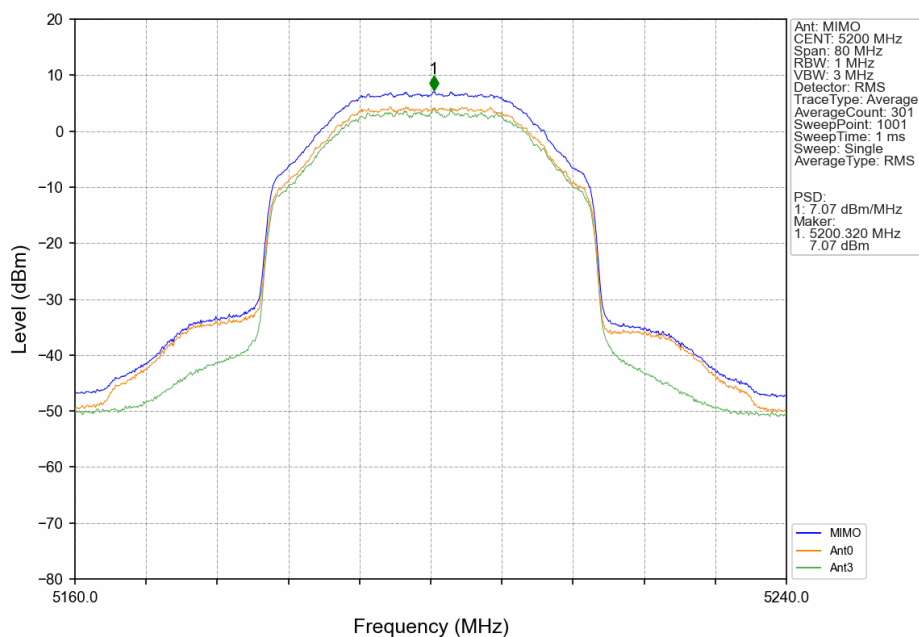
40M_MCH_5200MHz_Ant0_NTNV



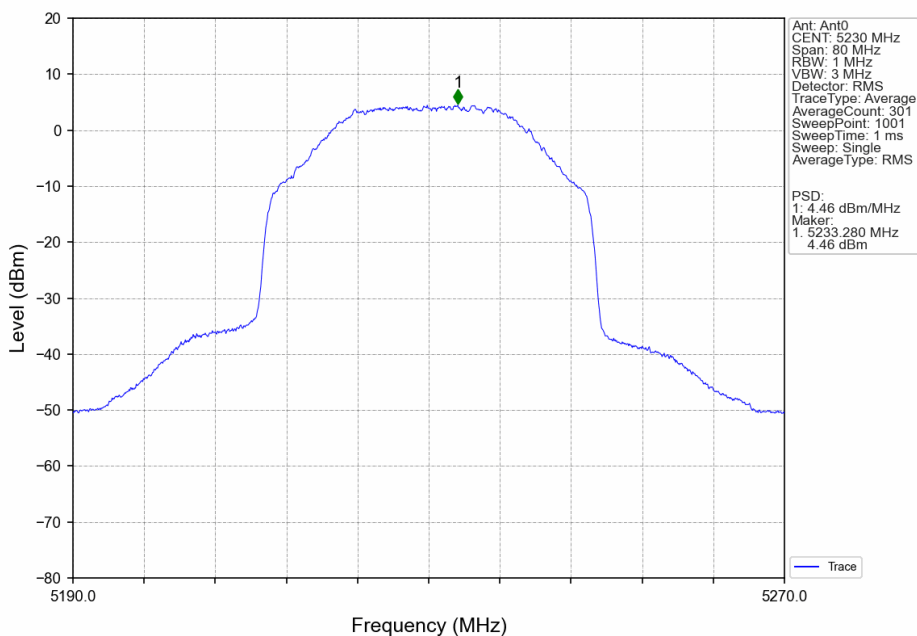
40M_MCH_5200MHz_Ant3_NTNV



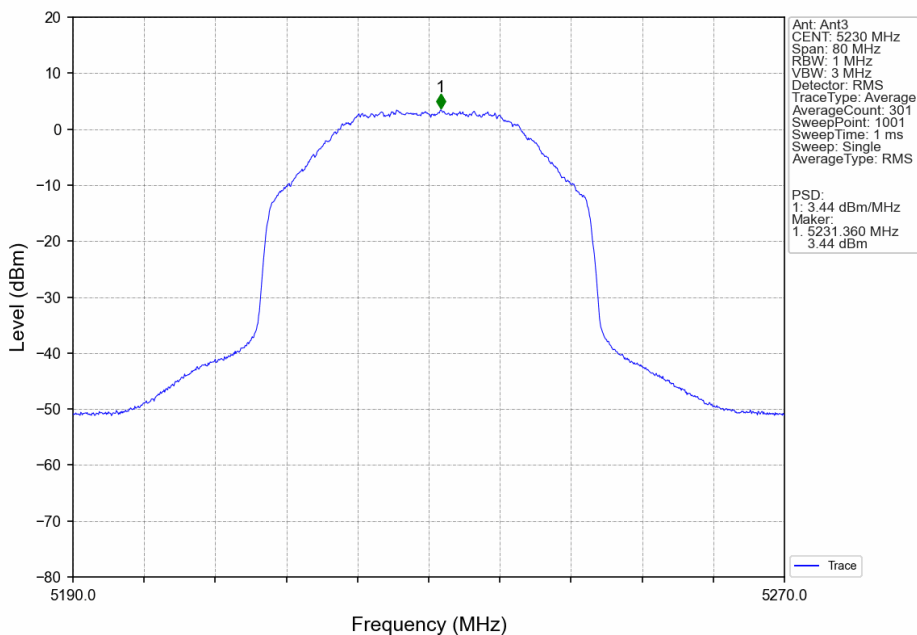
40M_MCH_5200MHz_MIMO_NTNV



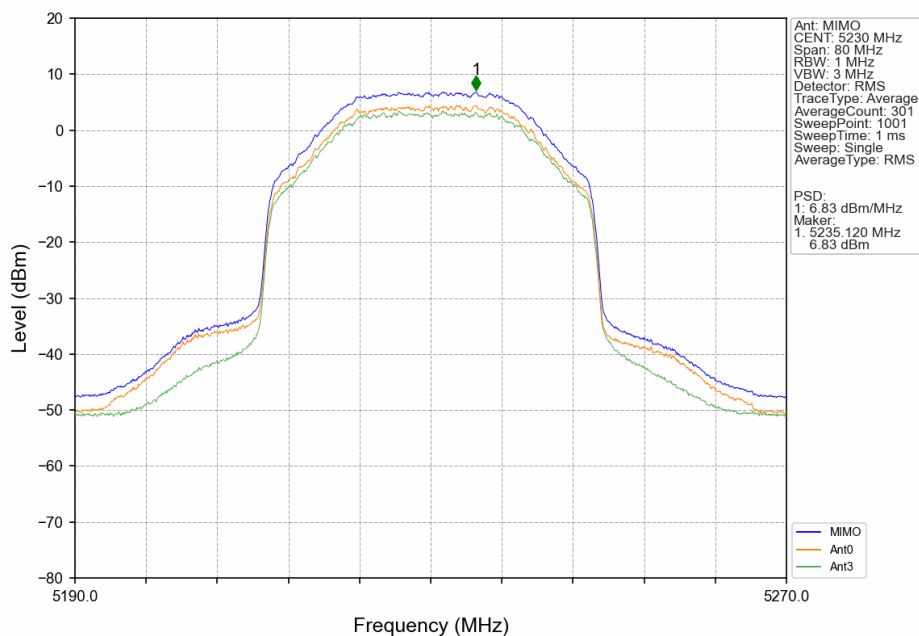
40M_HCH_5230MHz_Ant0_NTNV



40M_HCH_5230MHz_Ant3_NTNV



40M_HCH_5230MHz_MIMO_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant0

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	6.44	5157.010	5150 to 5250	Pass
				7.16	5156.940	5150 to 5250	Pass
				8.36	5156.940	5150 to 5250	Pass
			0	7.16	5156.970	5150 to 5250	Pass
			5	7.16	5157.000	5150 to 5250	Pass
			10	7.16	5156.960	5150 to 5250	Pass
			15	7.16	5156.960	5150 to 5250	Pass
			25	7.16	5156.970	5150 to 5250	Pass
			30	7.16	5156.970	5150 to 5250	Pass
			35	7.16	5156.950	5150 to 5250	Pass
			40	7.16	5156.950	5150 to 5250	Pass
		5200	20	6.44	5199.970	5150 to 5250	Pass
				7.16	5199.950	5150 to 5250	Pass
				8.36	5199.970	5150 to 5250	Pass
			0	7.16	5199.950	5150 to 5250	Pass
			5	7.16	5200.000	5150 to 5250	Pass
			10	7.16	5199.960	5150 to 5250	Pass
			15	7.16	5199.960	5150 to 5250	Pass
			25	7.16	5200.020	5150 to 5250	Pass
			30	7.16	5199.950	5150 to 5250	Pass
			35	7.16	5199.980	5150 to 5250	Pass
			40	7.16	5199.950	5150 to 5250	Pass
		5245	20	6.44	5245.020	5150 to 5250	Pass
				7.16	5244.940	5150 to 5250	Pass
				8.36	5244.940	5150 to 5250	Pass
			0	7.16	5244.940	5150 to 5250	Pass
			5	7.16	5244.970	5150 to 5250	Pass
			10	7.16	5244.970	5150 to 5250	Pass
			15	7.16	5244.950	5150 to 5250	Pass
			25	7.16	5245.020	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 129 of 293

			30	7.16	5244.950	5150 to 5250	Pass
			35	7.16	5244.970	5150 to 5250	Pass
			40	7.16	5245.010	5150 to 5250	Pass
20M	MIMO	5161	20	6.44	5161.020	5150 to 5250	Pass
				7.16	5161.020	5150 to 5250	Pass
				8.36	5161.020	5150 to 5250	Pass
			0	7.16	5161.020	5150 to 5250	Pass
			5	7.16	5161.000	5150 to 5250	Pass
			10	7.16	5161.000	5150 to 5250	Pass
			15	7.16	5161.000	5150 to 5250	Pass
			25	7.16	5161.020	5150 to 5250	Pass
			30	7.16	5161.000	5150 to 5250	Pass
			35	7.16	5161.000	5150 to 5250	Pass
			40	7.16	5161.000	5150 to 5250	Pass
		5200	20	6.44	5200.020	5150 to 5250	Pass
				7.16	5200.000	5150 to 5250	Pass
				8.36	5200.020	5150 to 5250	Pass
			0	7.16	5200.020	5150 to 5250	Pass
			5	7.16	5200.020	5150 to 5250	Pass
			10	7.16	5200.020	5150 to 5250	Pass
			15	7.16	5200.020	5150 to 5250	Pass
			25	7.16	5200.000	5150 to 5250	Pass
			30	7.16	5200.000	5150 to 5250	Pass
			35	7.16	5200.020	5150 to 5250	Pass
			40	7.16	5200.020	5150 to 5250	Pass
		5240	20	6.44	5240.020	5150 to 5250	Pass
				7.16	5240.040	5150 to 5250	Pass
				8.36	5240.020	5150 to 5250	Pass
			0	7.16	5240.020	5150 to 5250	Pass
			5	7.16	5240.020	5150 to 5250	Pass
			10	7.16	5240.040	5150 to 5250	Pass
			15	7.16	5240.040	5150 to 5250	Pass
			25	7.16	5240.020	5150 to 5250	Pass
			30	7.16	5240.000	5150 to 5250	Pass
			35	7.16	5240.020	5150 to 5250	Pass
			40	7.16	5240.000	5150 to 5250	Pass
40M	MIMO	5170	20	6.44	5170.000	5150 to 5250	Pass
				7.16	5170.000	5150 to 5250	Pass
				8.36	5170.000	5150 to 5250	Pass
			0	7.16	5170.000	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 130 of 293

			5	7.16	5170.000	5150 to 5250	Pass
			10	7.16	5170.000	5150 to 5250	Pass
			15	7.16	5170.040	5150 to 5250	Pass
			25	7.16	5170.040	5150 to 5250	Pass
			30	7.16	5170.000	5150 to 5250	Pass
			35	7.16	5170.080	5150 to 5250	Pass
			40	7.16	5170.000	5150 to 5250	Pass
		5200	20	6.44	5200.000	5150 to 5250	Pass
				7.16	5199.960	5150 to 5250	Pass
				8.36	5199.960	5150 to 5250	Pass
			0	7.16	5200.000	5150 to 5250	Pass
			5	7.16	5200.000	5150 to 5250	Pass
			10	7.16	5200.040	5150 to 5250	Pass
			15	7.16	5200.040	5150 to 5250	Pass
			25	7.16	5200.040	5150 to 5250	Pass
			30	7.16	5199.960	5150 to 5250	Pass
			35	7.16	5200.040	5150 to 5250	Pass
			40	7.16	5199.960	5150 to 5250	Pass
		5230	20	6.44	5230.040	5150 to 5250	Pass
				7.16	5230.120	5150 to 5250	Pass
				8.36	5230.160	5150 to 5250	Pass
			0	7.16	5229.960	5150 to 5250	Pass
			5	7.16	5230.160	5150 to 5250	Pass
			10	7.16	5230.080	5150 to 5250	Pass
			15	7.16	5230.200	5150 to 5250	Pass
			25	7.16	5230.000	5150 to 5250	Pass
			30	7.16	5230.000	5150 to 5250	Pass
			35	7.16	5230.080	5150 to 5250	Pass
			40	7.16	5230.040	5150 to 5250	Pass

5.1.2 Ant3

Ant3							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	6.44	5157.010	5150 to 5250	Pass
				7.16	5157.000	5150 to 5250	Pass
				8.36	5157.020	5150 to 5250	Pass
			0	7.16	5157.010	5150 to 5250	Pass
			5	7.16	5157.020	5150 to 5250	Pass
			10	7.16	5157.020	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 131 of 293

			15	7.16	5157.020	5150 to 5250	Pass
			25	7.16	5157.020	5150 to 5250	Pass
			30	7.16	5157.010	5150 to 5250	Pass
			35	7.16	5157.010	5150 to 5250	Pass
			40	7.16	5157.030	5150 to 5250	Pass
		5200	20	6.44	5200.020	5150 to 5250	Pass
				7.16	5200.020	5150 to 5250	Pass
				8.36	5200.030	5150 to 5250	Pass
			0	7.16	5200.040	5150 to 5250	Pass
			5	7.16	5200.020	5150 to 5250	Pass
			10	7.16	5200.040	5150 to 5250	Pass
			15	7.16	5200.030	5150 to 5250	Pass
			25	7.16	5200.010	5150 to 5250	Pass
			30	7.16	5200.040	5150 to 5250	Pass
			35	7.16	5200.020	5150 to 5250	Pass
			40	7.16	5200.020	5150 to 5250	Pass
		5245	20	6.44	5245.030	5150 to 5250	Pass
				7.16	5245.030	5150 to 5250	Pass
				8.36	5245.050	5150 to 5250	Pass
			0	7.16	5245.050	5150 to 5250	Pass
			5	7.16	5245.000	5150 to 5250	Pass
			10	7.16	5245.010	5150 to 5250	Pass
			15	7.16	5245.030	5150 to 5250	Pass
			25	7.16	5245.050	5150 to 5250	Pass
			30	7.16	5245.040	5150 to 5250	Pass
			35	7.16	5245.040	5150 to 5250	Pass
			40	7.16	5245.040	5150 to 5250	Pass
20M	MIMO	5161	20	6.44	5161.000	5150 to 5250	Pass
				7.16	5161.000	5150 to 5250	Pass
				8.36	5160.960	5150 to 5250	Pass
			0	7.16	5161.020	5150 to 5250	Pass
			5	7.16	5161.020	5150 to 5250	Pass
			10	7.16	5161.000	5150 to 5250	Pass
			15	7.16	5161.020	5150 to 5250	Pass
			25	7.16	5160.980	5150 to 5250	Pass
			30	7.16	5160.980	5150 to 5250	Pass
			35	7.16	5161.020	5150 to 5250	Pass
			40	7.16	5160.960	5150 to 5250	Pass
		5200	20	6.44	5200.040	5150 to 5250	Pass
				7.16	5200.040	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 132 of 293

				8.36	5200.020	5150 to 5250	Pass
			0	7.16	5200.020	5150 to 5250	Pass
			5	7.16	5200.020	5150 to 5250	Pass
			10	7.16	5200.020	5150 to 5250	Pass
			15	7.16	5200.020	5150 to 5250	Pass
			25	7.16	5200.020	5150 to 5250	Pass
			30	7.16	5200.020	5150 to 5250	Pass
			35	7.16	5200.020	5150 to 5250	Pass
			40	7.16	5200.020	5150 to 5250	Pass
		5240	20	6.44	5240.020	5150 to 5250	Pass
				7.16	5240.020	5150 to 5250	Pass
				8.36	5240.020	5150 to 5250	Pass
			0	7.16	5240.020	5150 to 5250	Pass
			5	7.16	5240.040	5150 to 5250	Pass
			10	7.16	5240.020	5150 to 5250	Pass
			15	7.16	5240.040	5150 to 5250	Pass
			25	7.16	5240.020	5150 to 5250	Pass
			30	7.16	5240.040	5150 to 5250	Pass
			35	7.16	5240.040	5150 to 5250	Pass
			40	7.16	5240.040	5150 to 5250	Pass
40M	MIMO	5170	20	6.44	5170.000	5150 to 5250	Pass
				7.16	5170.080	5150 to 5250	Pass
				8.36	5170.000	5150 to 5250	Pass
			0	7.16	5170.040	5150 to 5250	Pass
			5	7.16	5170.040	5150 to 5250	Pass
			10	7.16	5170.000	5150 to 5250	Pass
			15	7.16	5170.040	5150 to 5250	Pass
			25	7.16	5170.080	5150 to 5250	Pass
			30	7.16	5170.080	5150 to 5250	Pass
			35	7.16	5170.080	5150 to 5250	Pass
			40	7.16	5170.080	5150 to 5250	Pass
		5200	20	6.44	5200.080	5150 to 5250	Pass
				7.16	5200.200	5150 to 5250	Pass
				8.36	5200.120	5150 to 5250	Pass
			0	7.16	5200.080	5150 to 5250	Pass
			5	7.16	5200.120	5150 to 5250	Pass
			10	7.16	5200.120	5150 to 5250	Pass
			15	7.16	5200.080	5150 to 5250	Pass
			25	7.16	5200.080	5150 to 5250	Pass
			30	7.16	5199.960	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249806

Page: 133 of 293

			35	7.16	5200.080	5150 to 5250	Pass
			40	7.16	5200.040	5150 to 5250	Pass
		5230	20	6.44	5230.000	5150 to 5250	Pass
				7.16	5230.040	5150 to 5250	Pass
				8.36	5230.120	5150 to 5250	Pass
			0	7.16	5230.080	5150 to 5250	Pass
			5	7.16	5230.120	5150 to 5250	Pass
			10	7.16	5230.160	5150 to 5250	Pass
			15	7.16	5230.160	5150 to 5250	Pass
			25	7.16	5230.080	5150 to 5250	Pass
			30	7.16	5230.200	5150 to 5250	Pass
			35	7.16	5230.040	5150 to 5250	Pass
			40	7.16	5230.160	5150 to 5250	Pass



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