

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049106

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TEST REPORT

Application No.: SZCR2502000491AT
Applicant: SZ Knowact Robot Technology Co., Ltd
Address of Applicant: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road, Science Park Community, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer: SZ Knowact Robot Technology Co., Ltd
Address of Manufacturer: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road, Science Park Community, Yuehai Street, Nanshan District, Shenzhen, China
Factory: SZ Knowact Robot Technology Co., Ltd
Address of Factory: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road, Science Park Community, Yuehai Street, Nanshan District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Caelone 01
Model No.: AUDAFV
FCC ID: 2BMUV-AUDAFV25
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-02-13
Date of Test: 2025-02-21 to 2025-03-20
Date of Issue: 2025-04-01

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



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Shenzhen Branch (EMC) Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-01		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/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		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	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



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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: WAADFBS Nominal voltage: 7.3V
Operation Frequency:	5.1G SDR 10MHz: 5157MHz-5245MHz(89channel) 20MHz: 5161MHz-5240MHz(80channel) 40MHz: 5170MHz-5230MHz(61channel) 5.8G SDR 1.4MHz(Mode 1): 5728.5MHz-5846.5MHz(59channel) 1.4MHz(Mode 2): 5730.12MHz-5848.12MHz(59channel) 3MHz(Mode 1): 5727.5MHz-5844.5MHz(40channel) 3MHz(Mode 2): 5730.2MHz-5847.2MHz(40channel) 5MHz: 5732.5MHz-5842.5MHz(18channel) 10MHz: 5730.5MHz-5844.5MHz(115channel) 20MHz: 5735.5MHz-5839.5MHz(105channel) 40MHz: 5745.5MHz-5829.5MHz(85channel) 60MHz: 5755.5MHz-5819.5MHz(65channel) 80MHz: 5765.5MHz-5809.5MHz(45channel)
Modulation Type:	OFDM
Channel Spacing:	5.1G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 5.8G SDR 1.4MHz(Mode 1): 2MHz 1.4MHz(Mode 2): 2MHz 3MHz(Mode 1): 3MHz 3MHz(Mode 2): 3MHz 5MHz: 5MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Antenna Type:	PIFA



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Antenna Gain:	5.1G SDR: ANT0: 1dBi, ANT1: 1dBi, ANT2: 1dBi, ANT3: 1dBi 5.8G SDR: ANT0: 1.5dBi, ANT1: 1.5dBi, ANT2: 1.5dBi, ANT3: 1.5dBi
Cable Loss (for RF conducted test):	5.1G: 1.4dB 5.8G: 1.9dB

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4.2 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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4.3 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.

4.4 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.

4.5 Deviation from Standards

None

4.6 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	ESR	SZ-WRG-M-047	2025-01-8	2026-01-7
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
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 2025-03-03	2025-03-13 2026-03-02

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14 2025-03-04	2025-03-13 2026-03-03
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 2025-03-04	2025-03-13 2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
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 2025-03-03	2025-03-26 2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19 2025-02-26	2024-03-18 2026-02-25

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



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BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14 2025-03-04	2025-03-13 2026-03-03
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

Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-7	2026-01-6
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-7	2026-01-6
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-8	2026-01-7
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-7	2026-01-6
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-7	2026-01-6
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049106

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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 2025-03-04	2025-03-13 2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
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 2025-03-03	2025-03-26 2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

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 2025-03-03	2025-03-17 2026-03-02



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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 antenna are following:

Band	Antenna Gain (dBi)			
	ANT0	ANT1	ANT2	ANT3
5.1G SDR	1	1	1	1
5.8G SDR	1.5	1.5	1.5	1.5

Antenna combination (MIMO mode)	Directional Gain (dBi)	
	5.1G SDR	5.8G SDR
ANT0 & ANT1	4.01	4.51
ANT0 & ANT3	4.01	4.51
ANT2 & ANT1	4.01	4.51
ANT2 & ANT3	4.01	4.51

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: 22.5 °C

Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

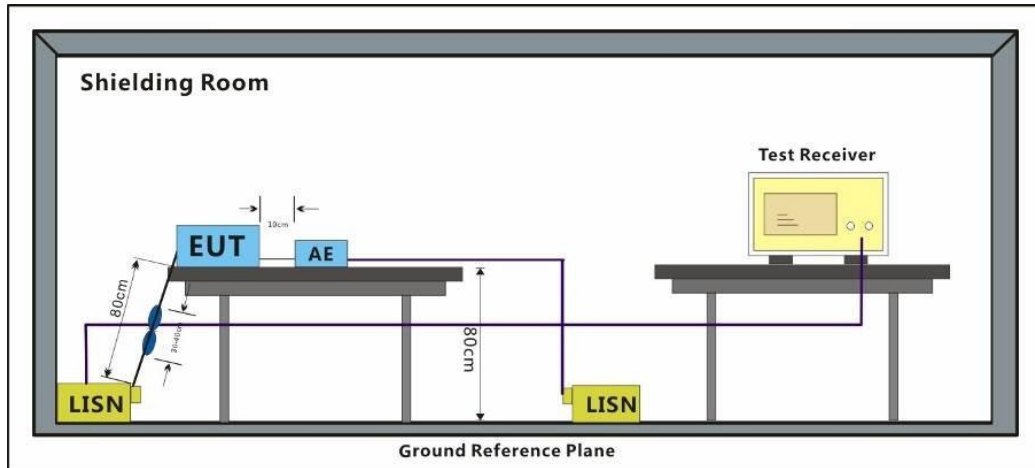
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	38	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	40	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	42	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

7.1.3 Test Setup Diagram

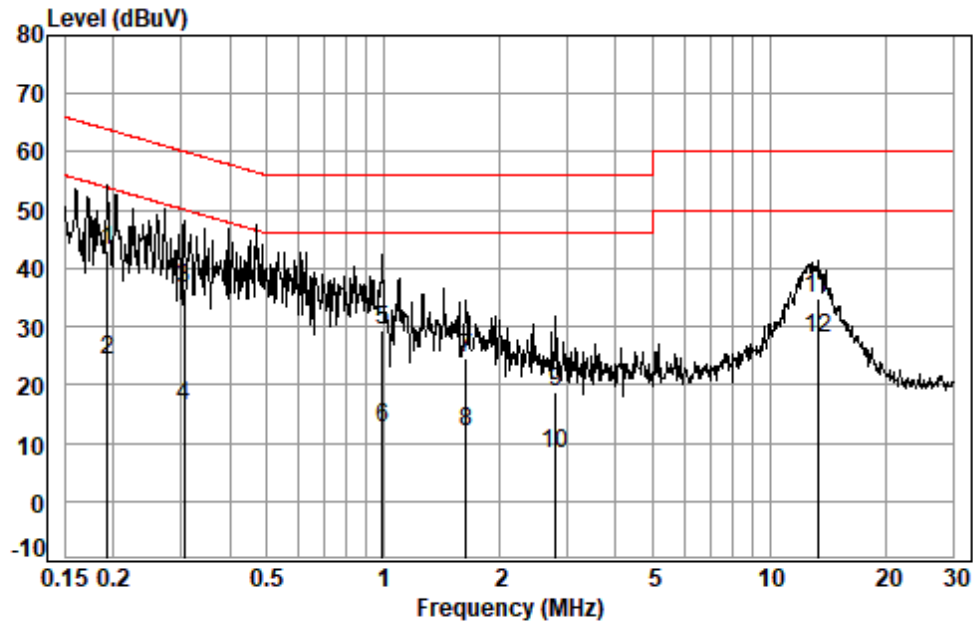


7.1.4 Measurement Procedure and Data

- 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: 38; Line: Live line

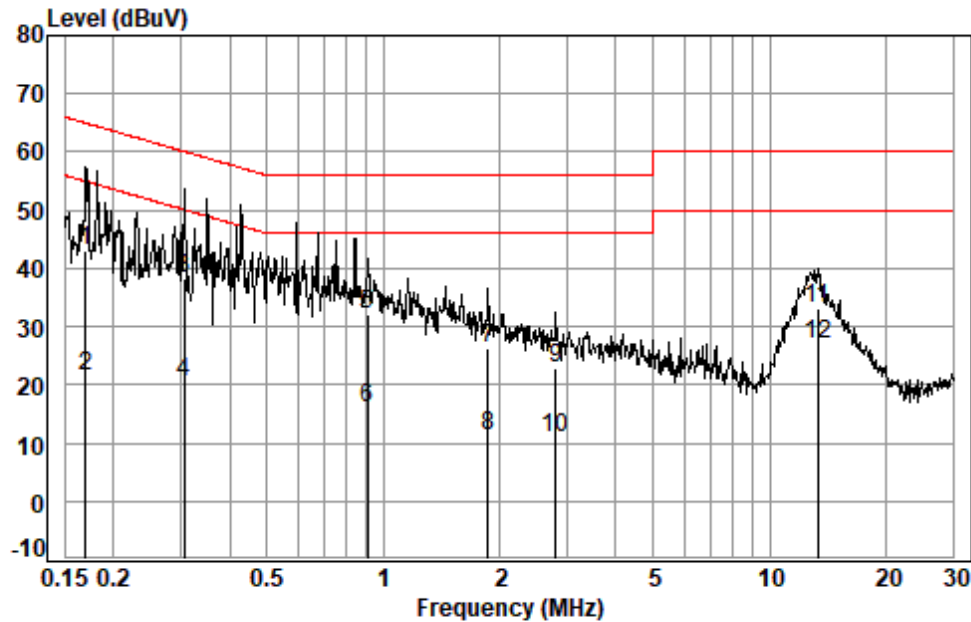


Site : Shielding Room
Condition: Line
Job No. : 00491AT
Test mode: 38

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1934	0.06	10.13	32.70	42.89	63.89	-21.00	QP
2	0.1934	0.06	10.13	14.12	24.31	53.89	-29.58	Average
3	0.3051	0.07	9.84	26.79	36.70	60.10	-23.40	QP
4	0.3051	0.07	9.84	6.30	16.21	50.10	-33.89	Average
5	0.9944	0.09	9.58	19.76	29.43	56.00	-26.57	QP
6	0.9944	0.09	9.58	2.87	12.54	46.00	-33.46	Average
7	1.6363	0.10	9.58	14.86	24.54	56.00	-31.46	QP
8	1.6363	0.10	9.58	2.12	11.80	46.00	-34.20	Average
9	2.7942	0.11	9.64	9.13	18.88	56.00	-37.12	QP
10	2.7942	0.11	9.64	-1.68	8.07	46.00	-37.93	Average
11	13.3372	0.24	9.85	24.62	34.71	60.00	-25.29	QP
12 *	13.3372	0.24	9.85	18.05	28.14	50.00	-21.86	Average



Test Mode: 38; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00491AT
Test mode: 38

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.06	10.12	33.02	43.20	64.99	-21.79	QP
2	0.1694	0.06	10.12	11.31	21.49	54.99	-33.50	Average
3 *	0.3051	0.07	9.77	28.49	38.33	60.10	-21.77	QP
4	0.3051	0.07	9.77	10.50	20.34	50.10	-29.76	Average
5	0.9087	0.09	9.57	22.58	32.24	56.00	-23.76	QP
6	0.9087	0.09	9.57	6.31	15.97	46.00	-30.03	Average
7	1.8680	0.10	9.55	16.48	26.13	56.00	-29.87	QP
8	1.8680	0.10	9.55	1.44	11.09	46.00	-34.91	Average
9	2.7942	0.11	9.54	13.33	22.98	56.00	-33.02	QP
10	2.7942	0.11	9.54	1.12	10.77	46.00	-35.23	Average
11	13.3372	0.24	9.77	23.26	33.27	60.00	-26.73	QP
12 *	13.3372	0.24	9.77	16.91	26.92	50.00	-23.08	Average



7.2 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

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:

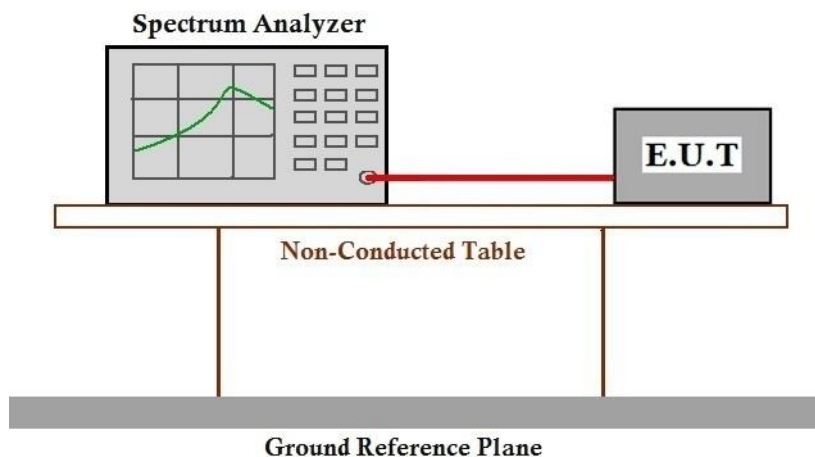
Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_ Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_ Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_ Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_ Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_ Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_ Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_ Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_ Keep the EUT in transmitting mode
Final test	53	TX mode (5.1G SDR_10MHz)_ Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_ Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_ 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



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7.3 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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: 45.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	38	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	40	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	42	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and



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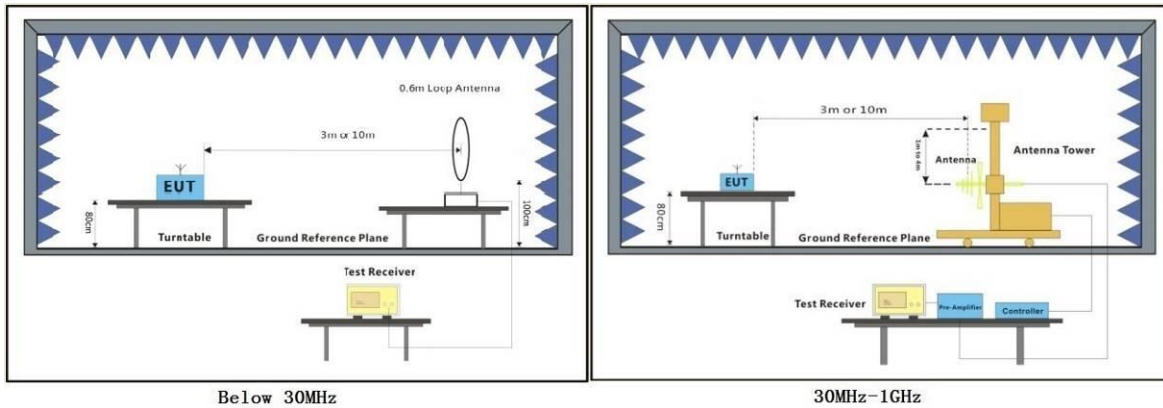
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		charged by adapter
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

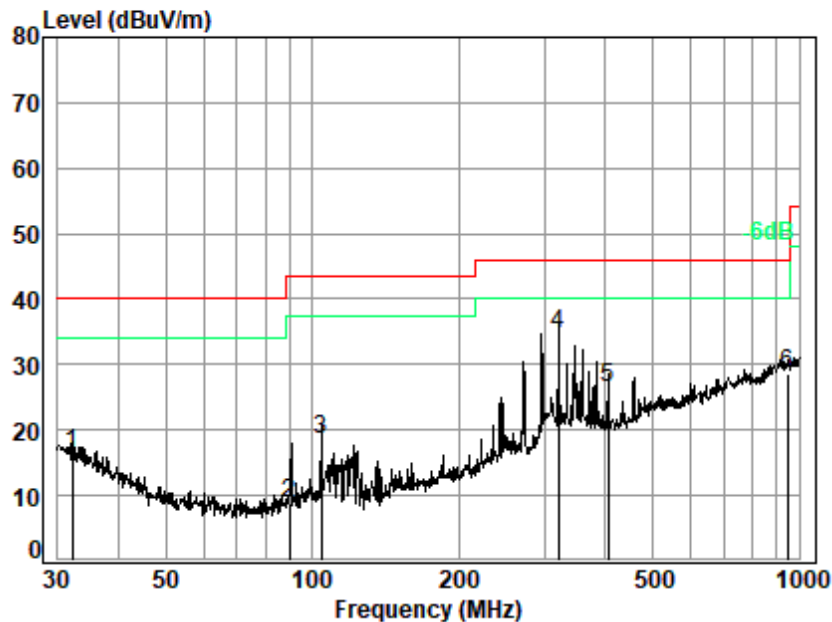
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Test Mode: 38; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00491AT
Test Mode: 38

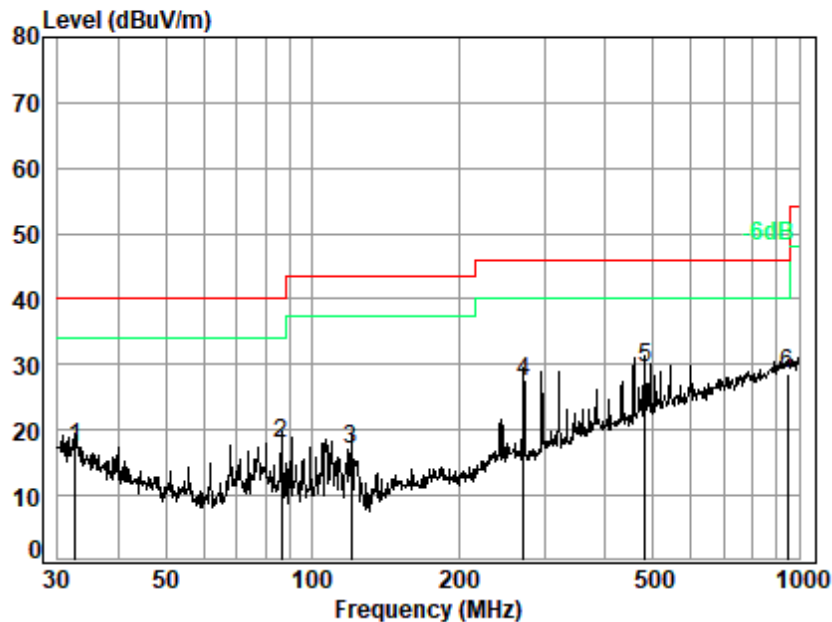
	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.179	20.20	0.70	27.79	23.25	16.36	40.00	-23.64 QP
2	89.590	11.69	1.16	27.62	23.69	8.92	43.50	-34.58 QP
3	104.170	12.22	1.25	27.57	32.67	18.57	43.50	-24.93 QP
4 q	321.061	18.53	2.29	26.84	40.58	34.56	46.00	-11.44 QP
5	404.667	20.54	2.60	27.18	30.56	26.52	46.00	-19.48 QP
6	948.761	28.23	4.25	26.42	22.57	28.63	46.00	-17.37 QP



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Test Mode: 38; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00491AT
Test Mode: 38

	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	32.634	20.02	0.70	27.78	24.43	17.37	40.00	-22.63 QP
2	86.503	11.24	1.14	27.63	33.12	17.87	40.00	-22.13 QP
3	120.277	11.09	1.36	27.50	32.21	17.16	43.50	-26.34 QP
4	271.325	17.09	2.09	26.87	35.08	27.39	46.00	-18.61 QP
5 q	482.216	22.80	2.86	27.49	31.29	29.46	46.00	-16.54 QP
6	948.761	28.23	4.25	26.42	22.62	28.68	46.00	-17.32 QP



7.4 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

Humidity: 57.9 % RH

Atmospheric Pressure: 1020 mbar

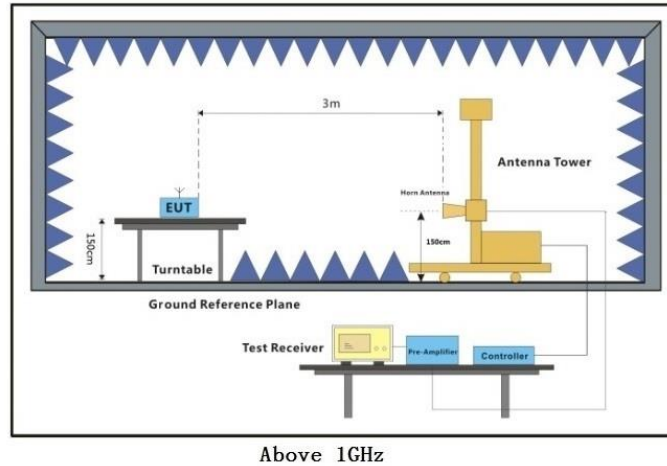


7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Pre-scan	38	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	40	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	42	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.



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

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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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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Shenzhen Branch Testing & Calibration Laboratory

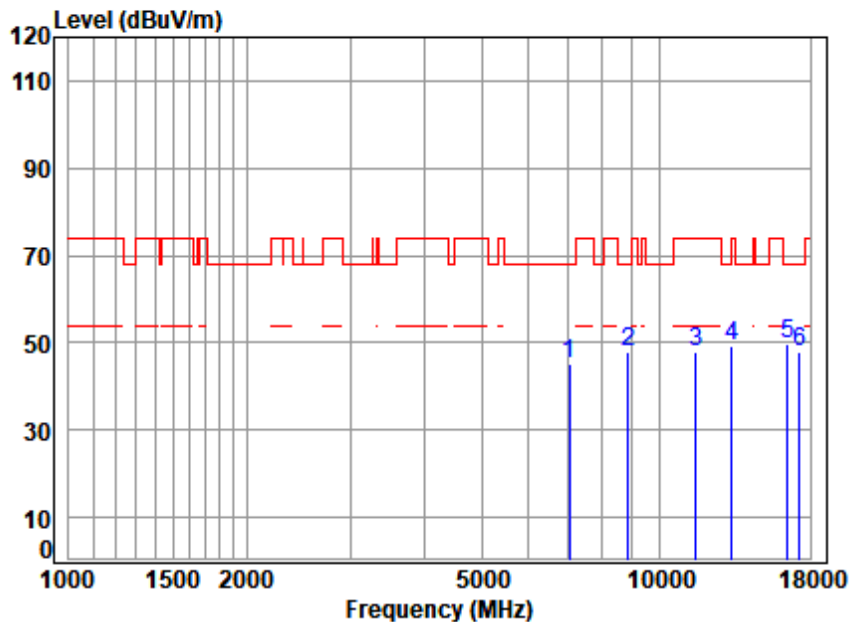
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 51; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

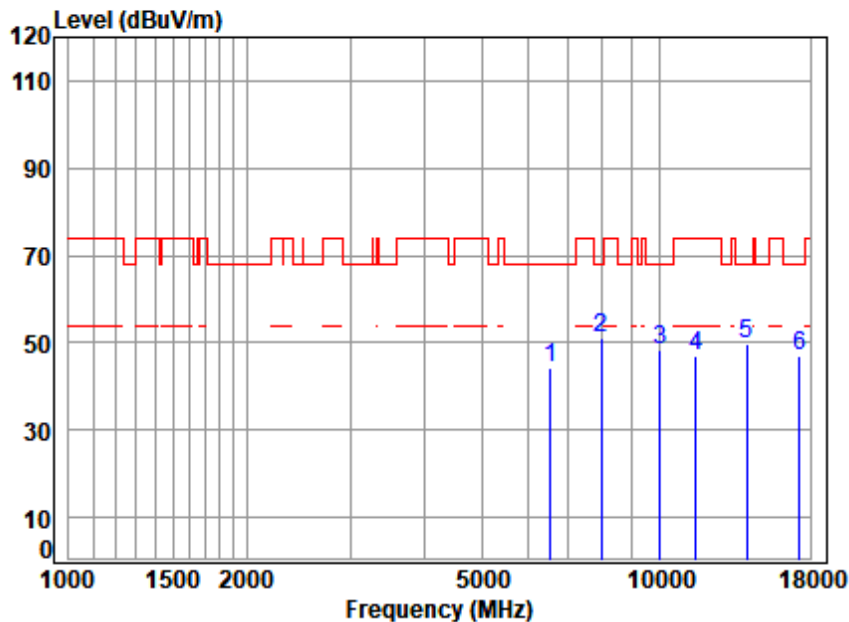
Mode : 5765.5 TX RSE

: 5.8G 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	7035.727	11.59	36.27	56.67	53.91	45.10	68.20	-23.10	Peak
2	8866.062	12.23	38.53	55.12	52.39	48.03	68.20	-20.17	peak
3	11531.000	14.93	39.60	53.66	46.84	47.71	74.00	-26.29	peak
4	13249.930	16.10	40.25	54.48	47.45	49.32	68.20	-18.88	Peak
5	pp16504.960	17.74	38.91	54.15	47.22	49.72	68.20	-18.48	Peak
6	17296.500	17.84	40.19	54.36	44.38	48.05	68.20	-20.15	peak



Test Mode: 51; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 5765.5 TX RSE
: 5.8G SDR 80M

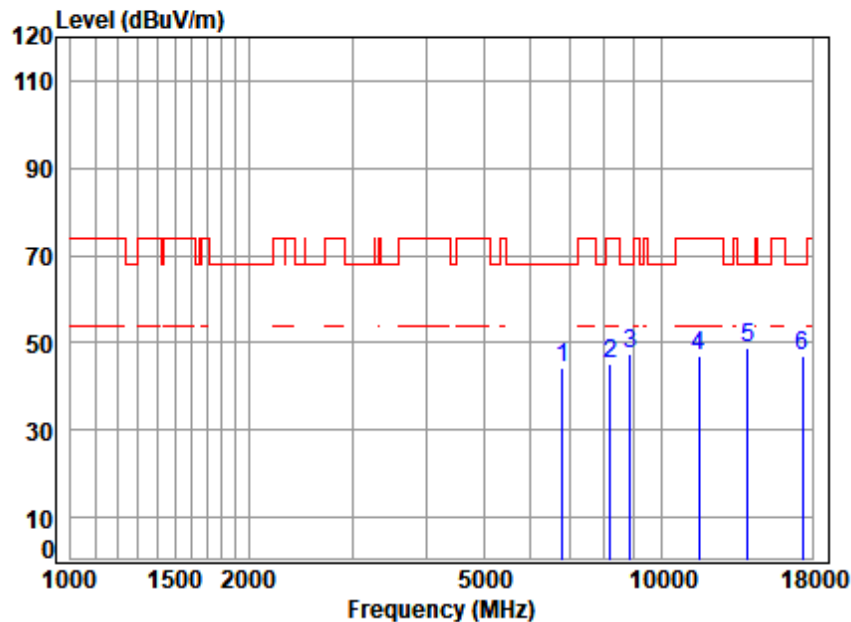
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6545.263	11.64	34.99	56.79	54.30	44.14	68.20	-24.06	Peak
2	pp 7989.893	11.56	37.78	55.91	57.69	51.12	68.20	-17.08	peak
3	10010.420	13.04	38.92	54.09	50.32	48.19	68.20	-20.01	Peak
4	11531.000	14.93	39.60	53.66	46.16	47.03	74.00	-26.97	peak
5	14038.450	16.51	39.90	54.40	47.82	49.83	68.20	-18.37	Peak
6	17296.500	17.84	40.19	54.36	43.24	46.91	68.20	-21.29	peak



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Test Mode: 51; Polarity: Horizontal; Modulation:OFDM; Channel:middle



Condition: 3m HORIZONTAL

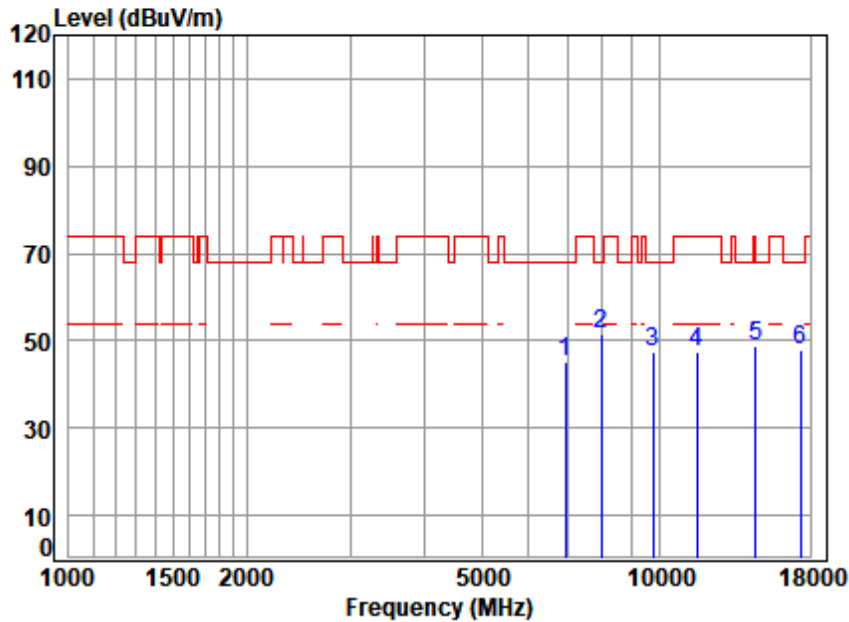
Job No : 00491AT

Mode : 5787.5 TX RSE
: 5.8G 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	6795.879	11.37	35.88	56.74	53.93	44.44	68.20	-23.76 Peak
2	8200.463	11.57	38.00	55.72	51.51	45.36	74.00	-28.64 Peak
3	8840.473	12.24	38.50	55.14	51.64	47.24	68.20	-20.96 peak
4	11575.000	14.76	39.60	53.67	46.35	47.04	74.00	-26.96 peak
5	pp13997.930	16.46	39.90	54.40	47.07	49.03	68.20	-19.17 Peak
6	17362.500	18.03	40.33	54.37	42.98	46.97	68.20	-21.23 peak



Test Mode: 51; Polarity: Vertical; Modulation:OFDM; Channel:middle



Condition: 3m VERTICAL

Job No : 00491AT

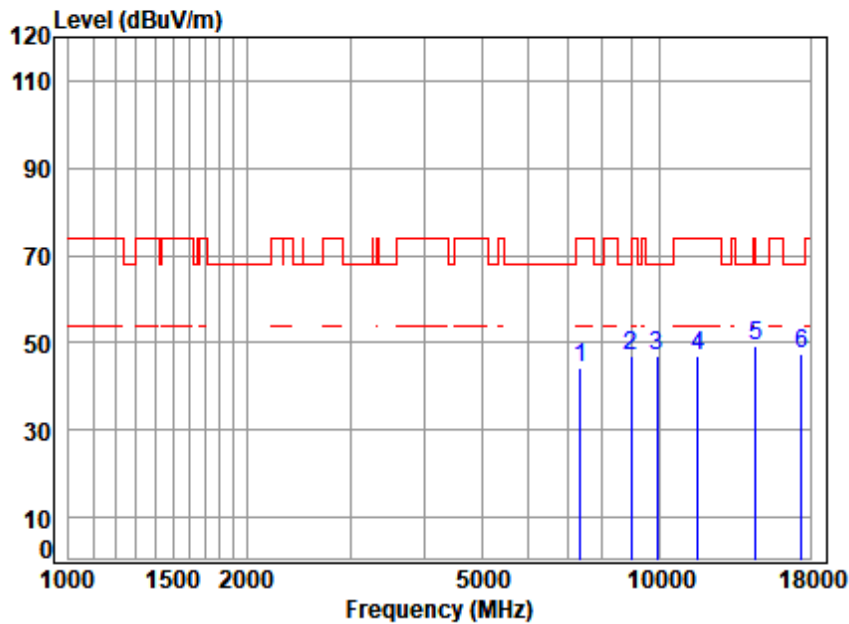
Mode : 5787.5 TX RSE

: 5.8G SDR 80M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6934.778	11.37	36.13	56.71	54.22	45.01	68.20	-23.19	Peak
2	7989.893	11.56	37.78	55.91	58.22	51.65	68.20	-16.55	peak
3	9753.371	12.91	38.60	54.32	50.38	47.57	68.20	-20.63	Peak
4	11575.000	14.76	39.60	53.67	46.86	47.55	74.00	-26.45	peak
5	14533.910	16.79	39.43	54.35	47.06	48.93	68.20	-19.27	Peak
6	17362.500	18.03	40.33	54.37	43.75	47.74	68.20	-20.46	peak



Test Mode: 51; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5809.5 TX RSE

: 5.8G SDR 80M

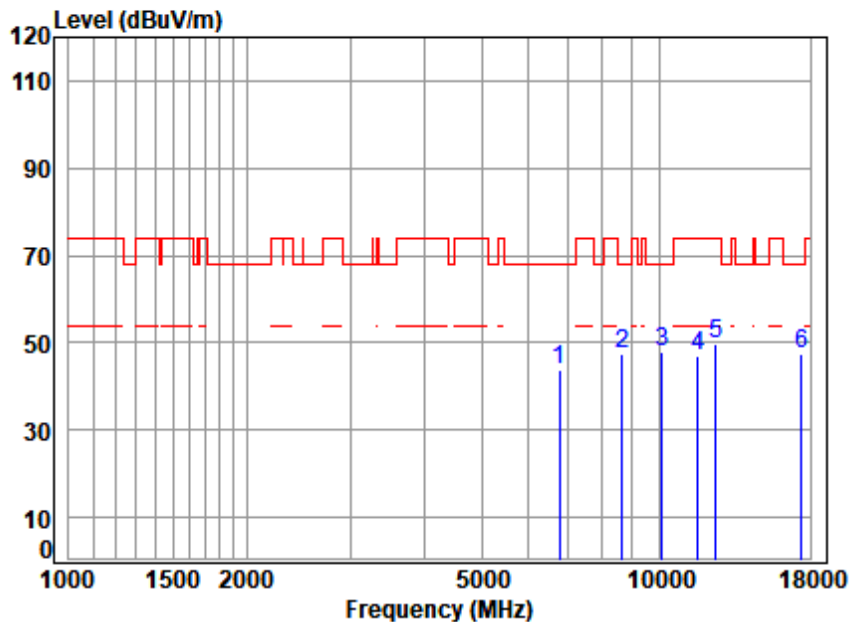
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7347.474	11.51	36.79	56.42	52.36	44.24	74.00	-29.76 Peak
2	8943.274	12.19	38.51	55.05	51.51	47.16	68.20	-21.04 peak
3	9895.349	12.81	38.80	54.19	49.78	47.20	68.20	-21.00 Peak
4	11619.000	14.67	39.58	53.69	46.45	47.01	74.00	-26.99 peak
5	pp14533.910	16.79	39.43	54.35	47.40	49.27	68.20	-18.93 Peak
6	17428.500	18.22	40.54	54.39	43.05	47.42	68.20	-20.78 peak



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Test Mode: 51; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

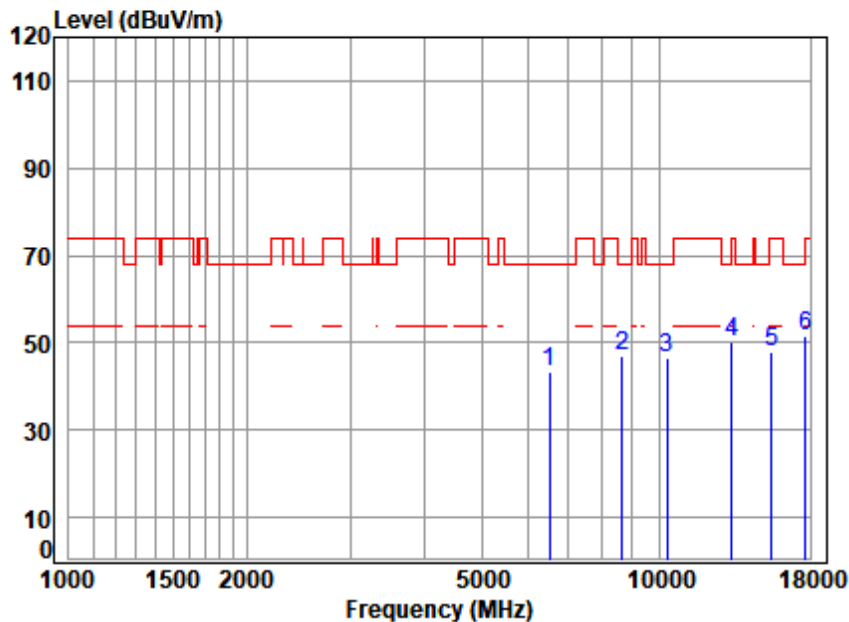
Mode : 5809.5 TX RSE

: 5.8G 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	6776.265	11.38	35.81	56.74	53.48	43.93	68.20	-24.27 Peak
2	8663.404	12.04	38.45	55.30	52.45	47.64	68.20	-20.56 peak
3	pp10097.600	13.26	39.10	54.04	49.58	47.90	68.20	-20.30 Peak
4	11619.000	14.67	39.58	53.69	46.43	46.99	74.00	-27.01 peak
5	12469.610	15.43	39.90	54.13	48.54	49.74	74.00	-24.26 Peak
6	17428.500	18.22	40.54	54.39	43.16	47.53	68.20	-20.67 peak



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5157 TX RSE

: 5.1G SDR 10M

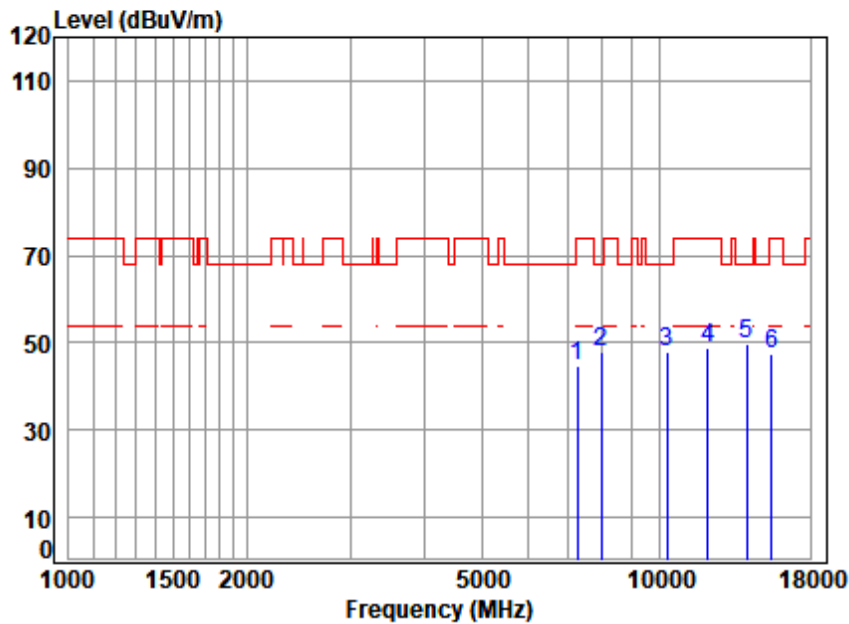
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6526.373	11.65	34.95	56.79	53.44	43.25	68.20	-24.95 Peak
2	8638.399	12.01	38.42	55.33	51.92	47.02	68.20	-21.18 peak
3	10314.000	13.59	39.00	53.91	47.89	46.57	68.20	-21.63 peak
4	13288.280	16.44	40.29	54.47	47.78	50.04	74.00	-23.96 Peak
5	15471.000	16.86	38.60	54.16	46.56	47.86	74.00	-26.14 peak
6	pp17690.530	19.16	41.66	54.44	45.27	51.65	68.20	-16.55 Peak



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Test Mode: 53; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

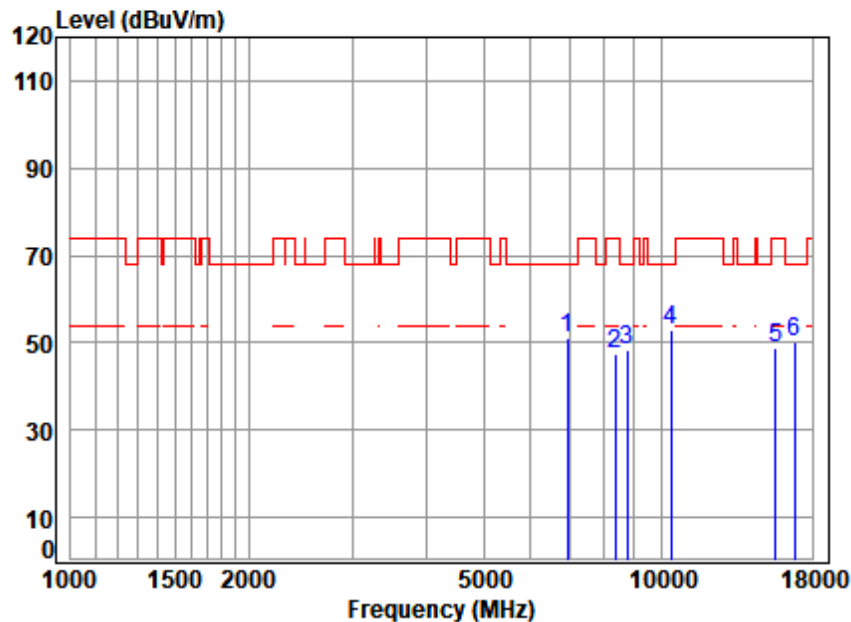
Mode : 5157 TX RSE

: 5.1G 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	7263.015	11.51	36.63	56.49	53.02	44.67	74.00	-29.33 Peak
2	7989.893	11.56	37.78	55.91	54.61	48.04	68.20	-20.16 peak
3	10314.000	13.59	39.00	53.91	49.03	47.71	68.20	-20.49 peak
4	12079.390	14.68	39.72	53.86	48.12	48.66	74.00	-25.34 Peak
5	pp14079.080	16.56	39.90	54.39	47.59	49.66	68.20	-18.54 Peak
6	15471.000	16.86	38.60	54.16	46.28	47.58	74.00	-26.42 peak



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Condition: 3m HORIZONTAL

Job No : 00491AT

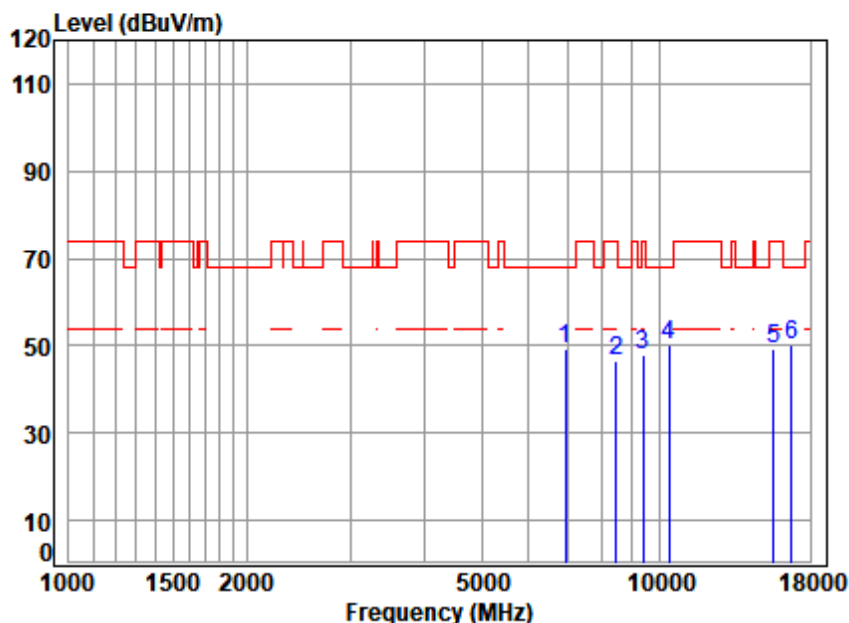
Mode : 5200 TX RSE

: 5.1G 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	6934.778	11.37	36.13	56.71	60.34	51.13	68.20	-17.07 peak
2	8343.918	11.70	38.60	55.59	52.87	47.58	74.00	-26.42 peak
3	8764.146	12.19	38.50	55.21	52.89	48.37	68.20	-19.83 peak
4	pp10400.000	13.62	39.00	53.86	54.16	52.92	68.20	-15.28 peak
5	15600.000	17.17	38.50	54.12	47.47	49.02	74.00	-24.98 peak
6	16842.290	17.76	39.60	54.25	47.14	50.25	68.20	-17.95 peak



Test Mode: 53; Polarity: Vertical; Modulation:OFDM; Channel:middle



Condition: 3m VERTICAL

Job No : 00491AT

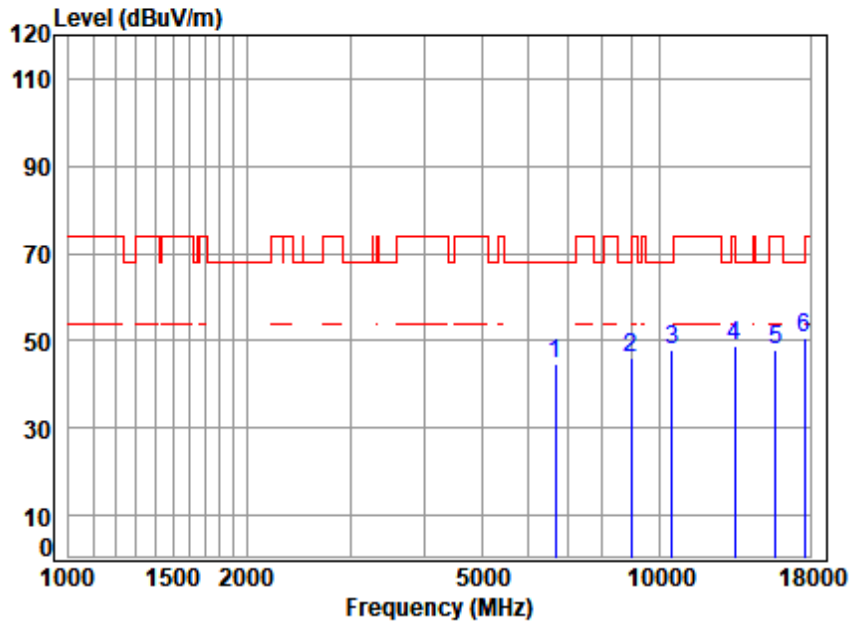
Mode : 5200 TX RSE

: 5.1G 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	6934.778	11.37	36.13	56.71	58.29	49.08	68.20	-19.12 peak
2	8465.379	12.07	38.37	55.48	51.52	46.48	74.00	-27.52 peak
3	9393.689	12.29	38.80	54.65	51.61	48.05	74.00	-25.95 peak
4	10400.000	13.62	39.00	53.86	51.22	49.98	68.20	-18.22 peak
5	15600.000	17.17	38.50	54.12	47.62	49.17	74.00	-24.83 peak
6	pp16745.210	17.53	39.49	54.22	47.18	49.98	68.20	-18.22 peak



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

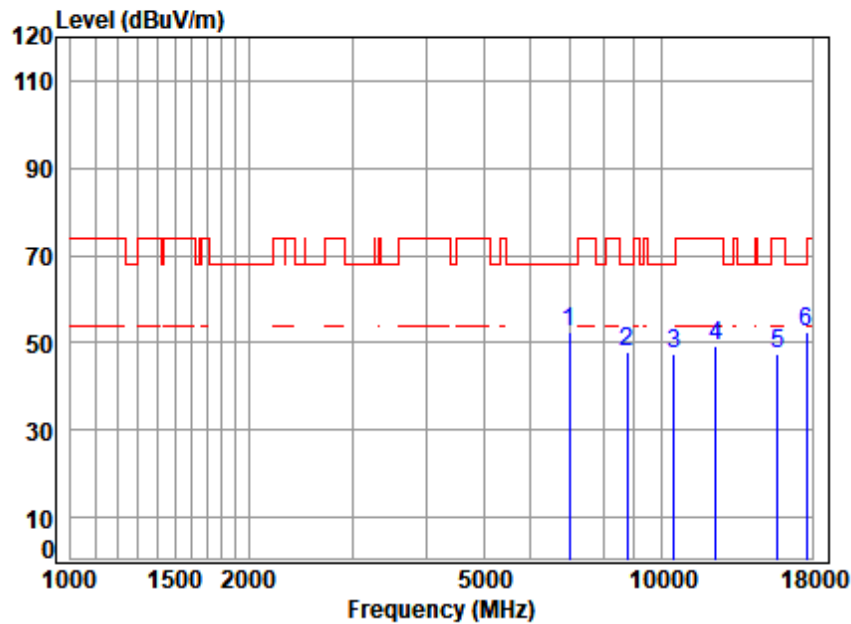
Mode : 5245 TX RSE

: 5.1G 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	6659.763	11.49	35.48	56.77	54.38	44.58	68.20	-23.62 Peak
2	8969.161	12.17	38.54	55.03	50.59	46.27	68.20	-21.93 peak
3	10490.000	13.64	39.09	53.81	48.81	47.73	68.20	-20.47 peak
4	13404.010	15.91	40.29	54.46	46.97	48.71	68.20	-19.49 Peak
5	15735.000	17.19	38.56	54.08	46.03	47.70	74.00	-26.30 peak
6	pp17588.560	19.64	40.37	54.42	45.15	50.74	68.20	-17.46 Peak



Test Mode: 53; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

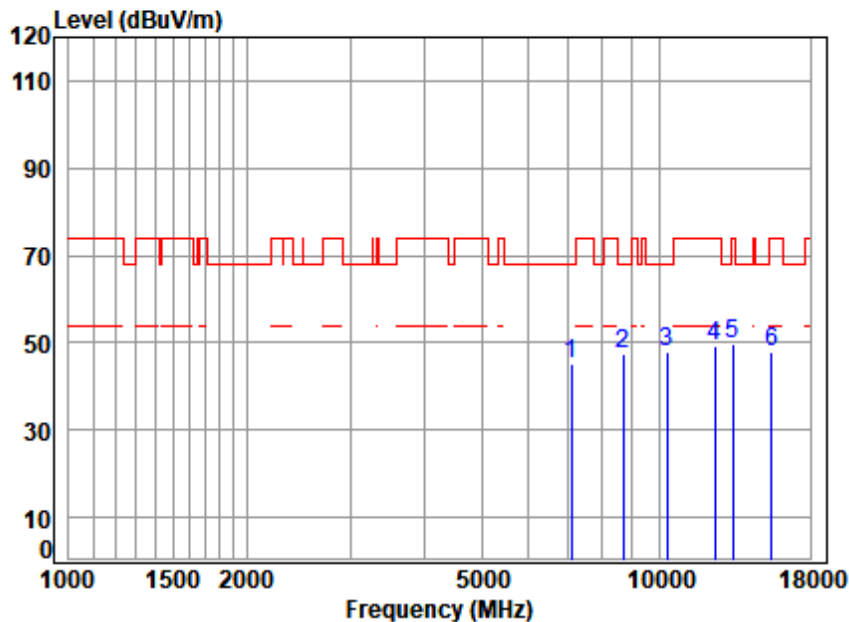
Mode : 5245 TX RSE

: 5.1G SDR 10M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 6995.172	11.37	36.19	56.70	61.61	52.47	68.20	-15.73	Peak	
2 8764.146	12.19	38.50	55.21	52.57	48.05	68.20	-20.15	peak	
3 10490.000	13.64	39.09	53.81	48.56	47.48	68.20	-20.72	peak	
4 12361.950	15.14	39.86	54.05	48.12	49.07	74.00	-24.93	Peak	
5 15735.000	17.19	38.56	54.08	45.75	47.42	74.00	-26.58	peak	
6 17639.470	19.52	40.89	54.43	46.36	52.34	68.20	-15.86	Peak	



Test Mode: 55; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5161 TX RSE

: 5.1G SDR 20M

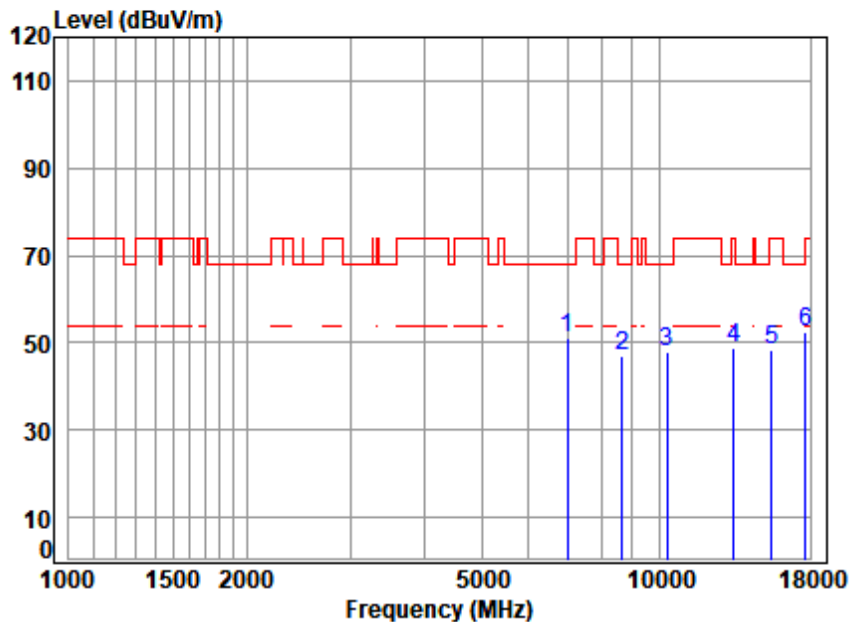
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7096.999	11.97	36.39	56.62	53.47	45.21	68.20	-22.99	Peak
2	8688.480	12.08	38.55	55.28	52.25	47.60	68.20	-20.60	peak
3	10322.000	13.59	39.00	53.91	49.11	47.79	68.20	-20.41	peak
4	12397.740	15.32	39.90	54.08	48.18	49.32	74.00	-24.68	Peak
5	13326.750	16.37	40.30	54.47	47.76	49.96	74.00	-24.04	Peak
6	15483.000	16.87	38.60	54.16	46.66	47.97	74.00	-26.03	peak



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Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 5161 TX RSE

: 5.1G SDR 20M

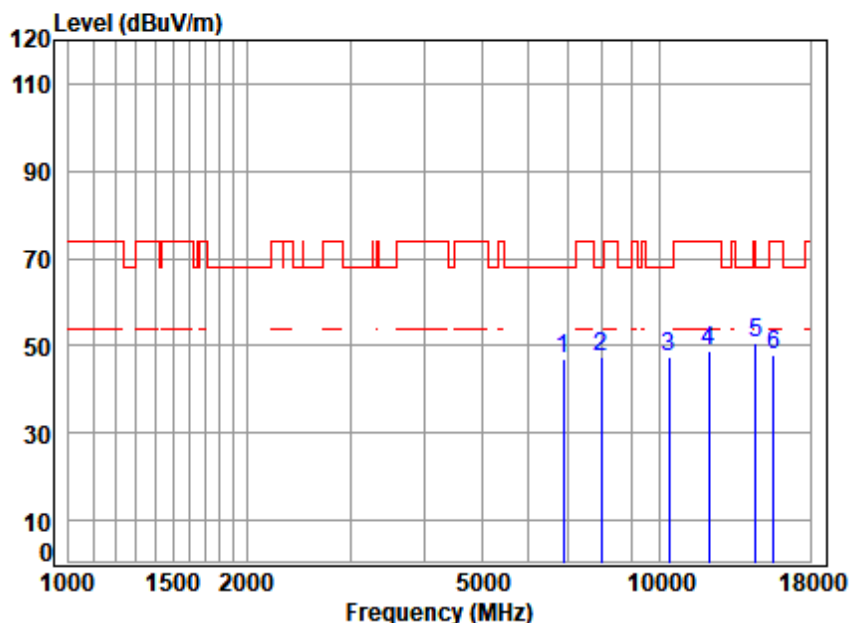
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6995.172	11.37	36.19	56.70	60.24	51.10	68.20	-17.10 Peak
2	8663.404	12.04	38.45	55.30	51.77	46.96	68.20	-21.24 peak
3	10322.000	13.59	39.00	53.91	49.09	47.77	68.20	-20.43 peak
4	13365.320	16.13	40.30	54.46	47.07	49.04	74.00	-24.96 Peak
5	15483.000	16.87	38.60	54.16	47.14	48.45	74.00	-25.55 peak
6	pp17690.530	19.16	41.66	54.44	46.01	52.39	68.20	-15.81 Peak



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Test Mode: 55; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Condition: 3m HORIZONTAL

Job No : 00491AT

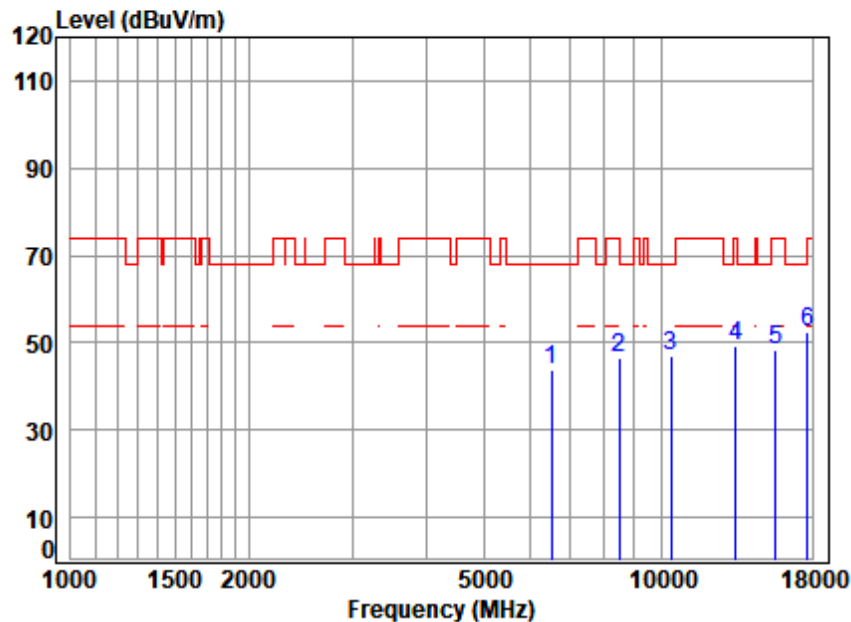
Mode : 5200 TX RSE

: 5.1G 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	6874.906	11.37	36.10	56.73	56.05	46.79	68.20	-21.41 Peak
2	7966.832	11.55	37.73	55.93	54.12	47.47	68.20	-20.73 peak
3	10400.000	13.62	39.00	53.86	48.91	47.67	68.20	-20.53 peak
4	12149.420	14.62	39.80	53.90	48.30	48.82	74.00	-25.18 Peak
5	pp14533.910	16.79	39.43	54.35	48.72	50.59	68.20	-17.61 Peak
6	15600.000	17.17	38.50	54.12	46.35	47.90	74.00	-26.10 peak



Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: middle



Condition: 3m VERTICAL

Job No : 00491AT

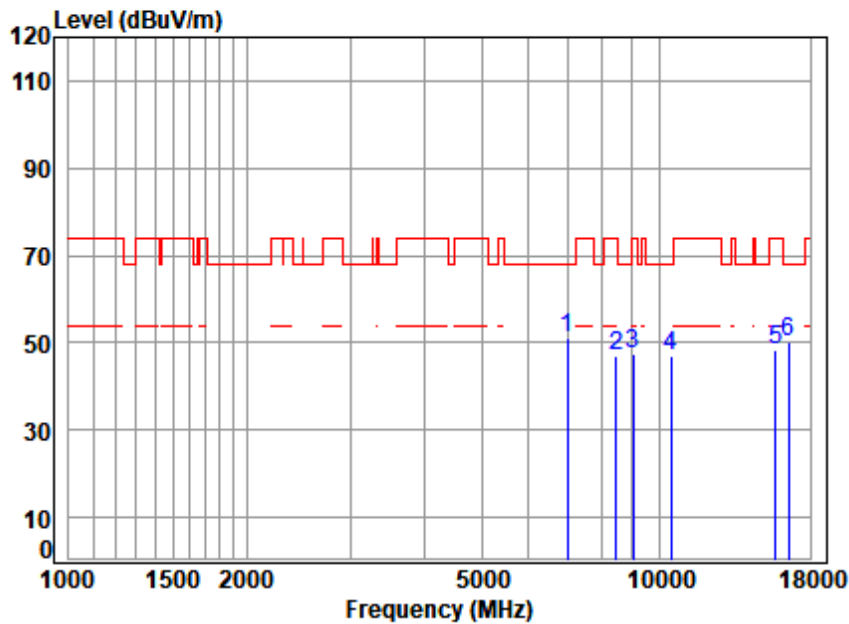
Mode : 5200 TX RSE

: 5.1G 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	6507.536	11.66	34.92	56.80	53.90	43.68	68.20	-24.52 Peak
2	8489.882	12.24	38.32	55.46	51.57	46.67	74.00	-27.33 peak
3	10400.000	13.62	39.00	53.86	48.16	46.92	68.20	-21.28 peak
4	13365.320	16.13	40.30	54.46	47.33	49.30	74.00	-24.70 Peak
5	15600.000	17.17	38.50	54.12	46.75	48.30	74.00	-25.70 peak
6	pp17690.530	19.16	41.66	54.44	46.17	52.55	68.20	-15.65 Peak



Test Mode: 55; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5240 TX RSE

: 5.1G SDR 20M

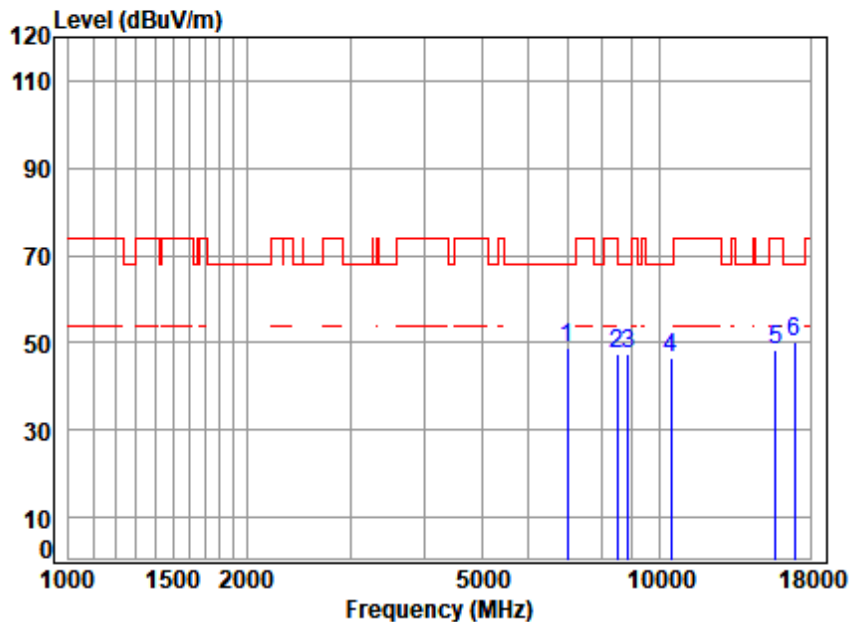
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
6995.172	11.37	36.19	56.70	60.31	51.17	68.20	-17.03	peak
8465.379	12.07	38.37	55.48	52.18	47.14	74.00	-26.86	peak
9021.160	12.14	38.60	54.98	51.63	47.39	74.00	-26.61	peak
10480.000	13.64	39.08	53.81	48.06	46.97	68.20	-21.23	peak
15720.000	17.22	38.58	54.08	46.53	48.25	74.00	-25.75	peak
16552.730	17.69	39.06	54.17	47.69	50.27	68.20	-17.93	peak



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Test Mode: 55; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

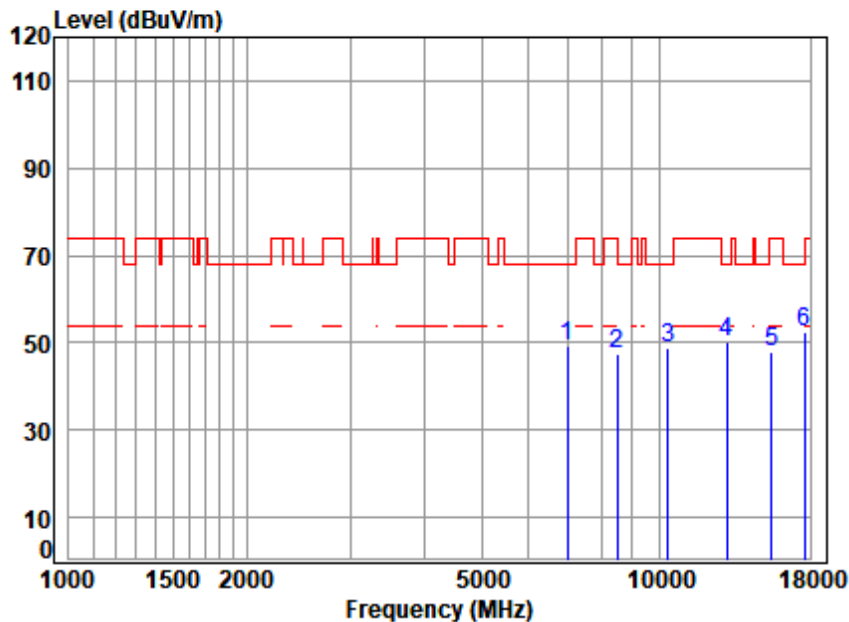
Mode : 5240 TX RSE

: 5.1G 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	6995.172	11.37	36.19	56.70	58.05	48.91	68.20	-19.29 peak
2	8489.882	12.24	38.32	55.46	52.27	47.37	74.00	-26.63 peak
3	8866.062	12.23	38.53	55.12	51.67	47.31	68.20	-20.89 peak
4	10480.000	13.64	39.08	53.81	47.80	46.71	68.20	-21.49 peak
5	15720.000	17.22	38.58	54.08	46.66	48.38	74.00	-25.62 peak
6	pp16939.940	18.14	39.64	54.28	46.50	50.00	68.20	-18.20 peak



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

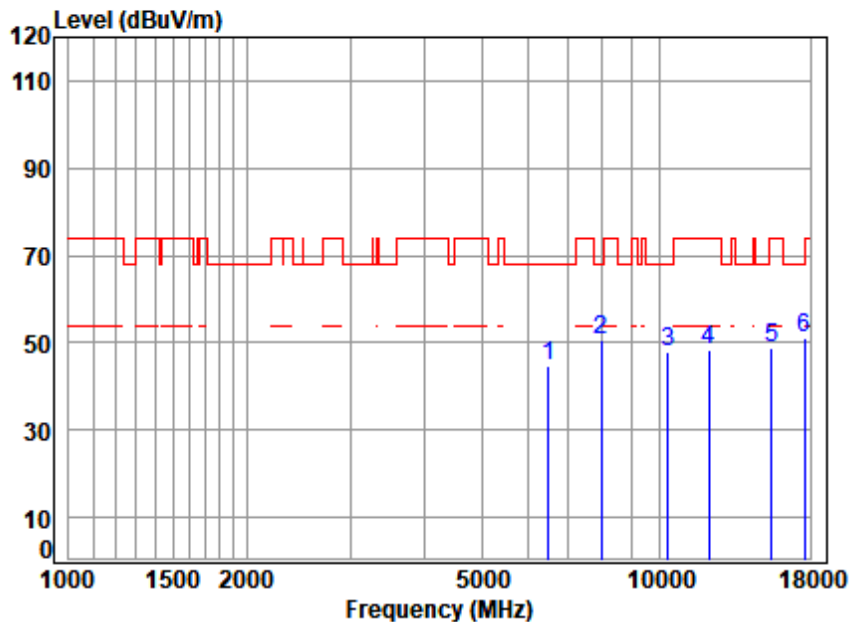
Mode : 5170 TX RSE

: 5.1G 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	6974.982	11.37	36.15	56.71	58.38	49.19	68.20	-19.01 Peak
2	8489.882	12.24	38.32	55.46	52.33	47.43	74.00	-26.57 peak
3	10340.000	13.60	39.00	53.90	50.04	48.74	68.20	-19.46 peak
4	12984.540	15.88	40.32	54.49	48.33	50.04	68.20	-18.16 Peak
5	15510.000	16.92	38.59	54.15	46.70	48.06	74.00	-25.94 peak
6	pp17588.560	19.64	40.37	54.42	46.66	52.25	68.20	-15.95 Peak



Test Mode: 57; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

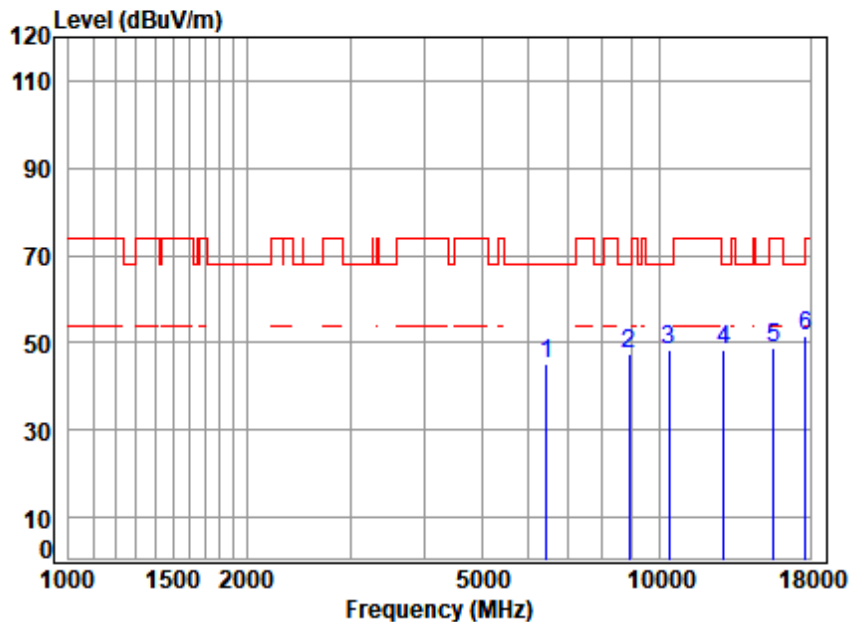
Mode : 5170 TX RSE

: 5.1G 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	6488.754	11.86	34.88	56.80	54.65	44.59	68.20	-23.61	Peak
2	7989.893	11.56	37.78	55.91	57.14	50.57	68.20	-17.63	peak
3	10340.000	13.60	39.00	53.90	49.29	47.99	68.20	-20.21	peak
4	12114.350	14.68	39.73	53.88	47.93	48.46	74.00	-25.54	Peak
5	15510.000	16.92	38.59	54.15	47.44	48.80	74.00	-25.20	peak
6	pp17588.560	19.64	40.37	54.42	45.37	50.96	68.20	-17.24	Peak



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Condition: 3m HORIZONTAL

Job No : 00491AT

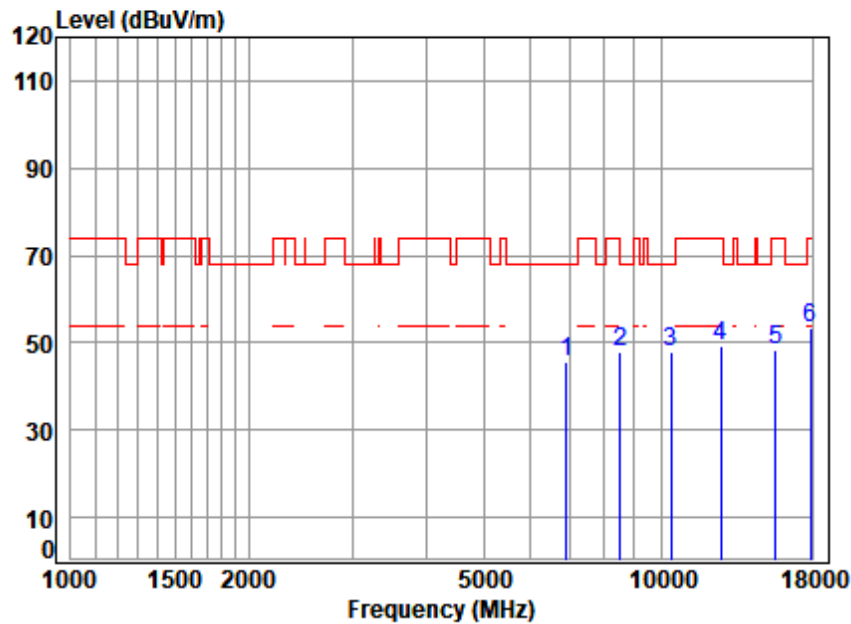
Mode : 5200 TX RSE

: 5.1G 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	6451.353	12.48	34.80	56.81	54.48	44.95	68.20	-23.25 Peak
2	8891.725	12.22	38.58	55.10	51.96	47.66	68.20	-20.54 peak
3	10400.000	13.62	39.00	53.86	49.62	48.38	68.20	-19.82 peak
4	12872.440	15.70	40.37	54.41	46.80	48.46	68.20	-19.74 Peak
5	15600.000	17.17	38.50	54.12	47.32	48.87	74.00	-25.13 peak
6	pp17690.530	19.16	41.66	54.44	44.95	51.33	68.20	-16.87 Peak



Test Mode: 57; Polarity: Vertical; Modulation: OFDM; Channel: middle



Condition: 3m VERTICAL

Job No : 00491AT

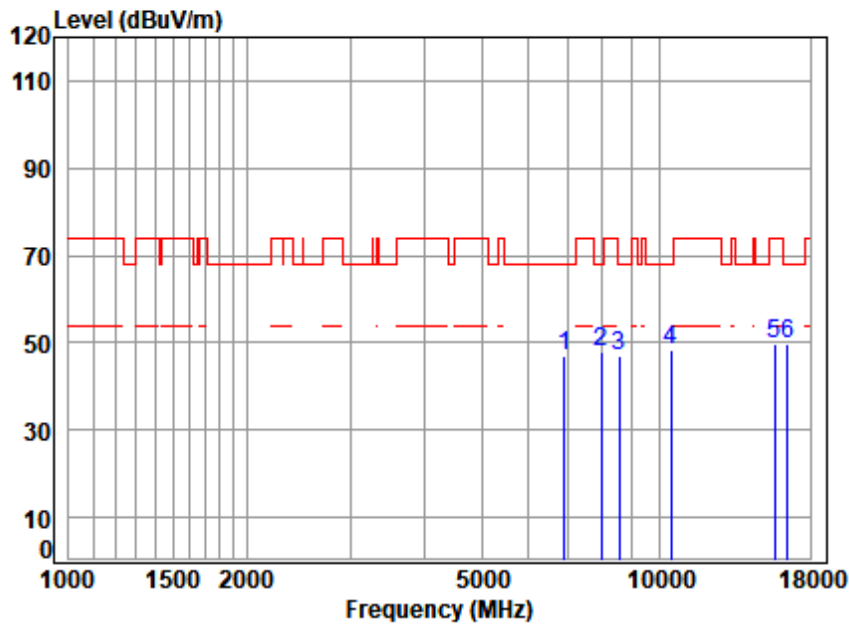
Mode : 5200 TX RSE

: 5.1G 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 6914.763	11.37	36.17	56.72	54.95	45.77	68.20	-22.43	Peak
2 8514.456	12.26	38.30	55.44	52.64	47.76	68.20	-20.44	peak
3 pp10400.000	13.62	39.00	53.86	49.26	48.02	68.20	-20.18	peak
4 12614.610	14.98	40.11	54.23	48.47	49.33	74.00	-24.67	Peak
5 15600.000	17.17	38.50	54.12	46.79	48.34	74.00	-25.66	peak
6 17896.250	18.69	43.08	54.48	45.91	53.20	74.00	-20.80	Peak



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5230 TX RSE

: 5.1G SDR 40M

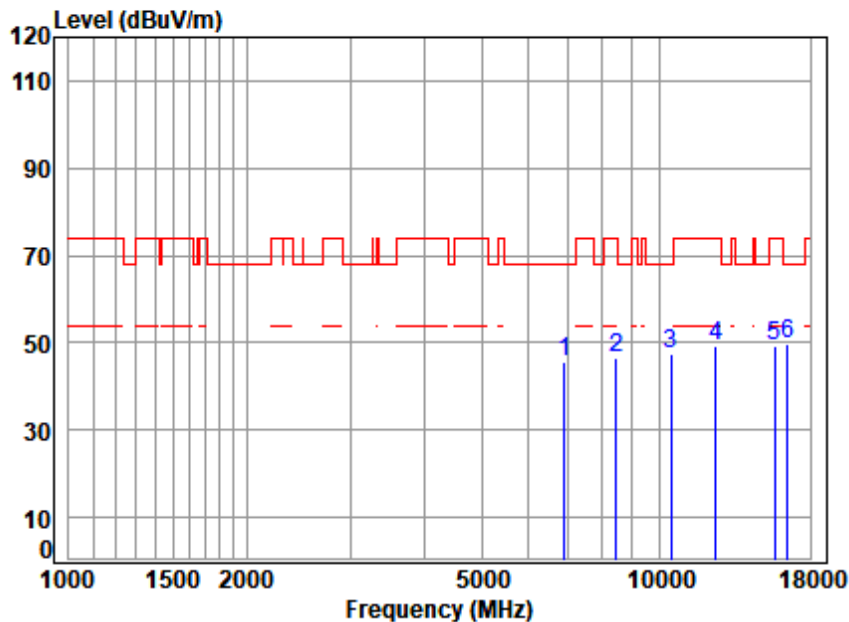
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6894.806	11.37	36.18	56.72	55.95	46.78	68.20	-21.42	peak
2	7989.893	11.56	37.78	55.91	54.35	47.78	68.20	-20.42	peak
3	8539.102	12.17	38.30	55.41	52.03	47.09	68.20	-21.11	peak
4	10460.000	13.63	39.06	53.82	49.32	48.19	68.20	-20.01	peak
5	15690.000	17.26	38.59	54.09	47.94	49.70	74.00	-24.30	peak
6	pp16457.320	17.49	38.86	54.14	47.48	49.69	68.20	-18.51	peak



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Test Mode: 57; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 5230 TX RSE

: 5.1G 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	6894.806	11.37	36.18	56.72	54.94	45.77	68.20	-22.43 peak
2	8465.379	12.07	38.37	55.48	51.71	46.67	74.00	-27.33 Peak
3	10460.000	13.63	39.06	53.82	48.72	47.59	68.20	-20.61 peak
4	12469.610	15.43	39.90	54.13	48.12	49.32	74.00	-24.68 Peak
5	15690.000	17.26	38.59	54.09	47.31	49.07	74.00	-24.93 peak
6	pp16457.320	17.49	38.86	54.14	47.57	49.78	68.20	-18.42 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: ANSI C63.10 (2013) Section 6.10.5

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: 21.9 °C

Humidity: 58.2 % RH

Atmospheric Pressure: 1020 mbar

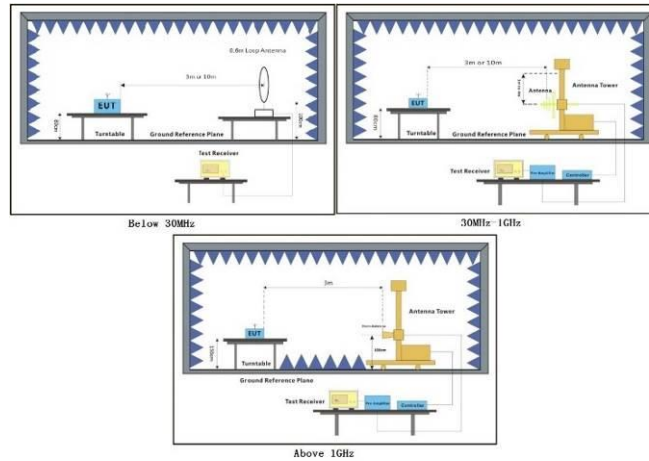


7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Pre-scan	38	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	40	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	42	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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.

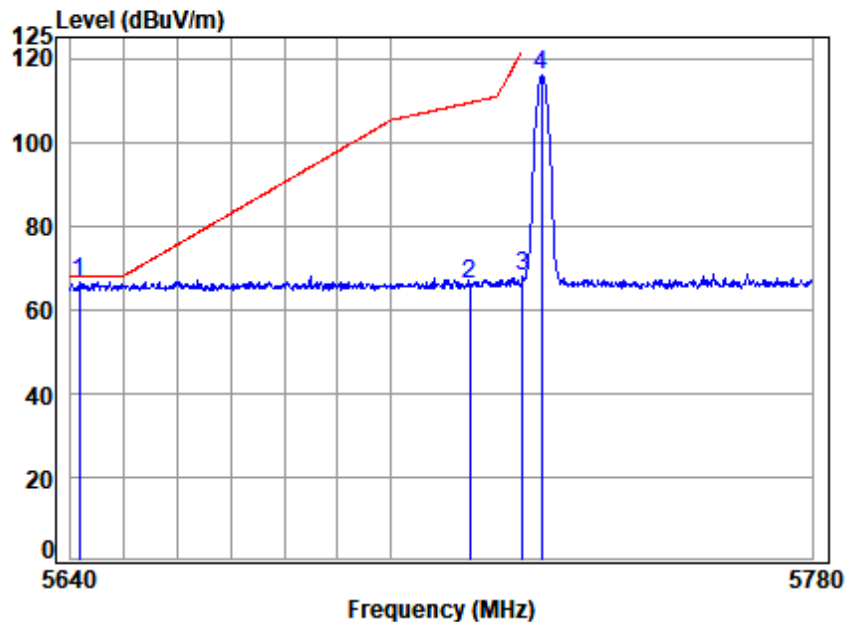
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 37; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

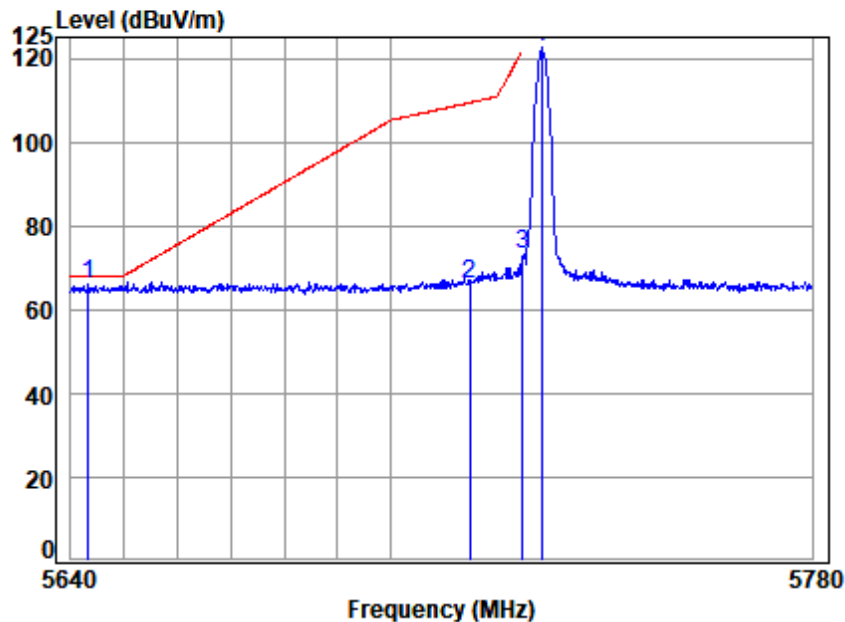
Job No : 00491AT

Mode : 5728.5 Band edge
: 5.8G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5641.521	10.47	33.08	30.64	53.68	66.59	68.20	-1.61	peak
2	5715.000	10.63	33.23	30.61	52.65	65.90	109.40	-43.50	peak
3	5725.000	10.68	33.25	30.61	54.44	67.76	122.20	-54.44	peak
4	5728.500	10.69	33.26	30.61	102.83	116.17	-----	-----	peak



Test Mode: 37; Polarity: Vertical; Modulation:OFDM; Channel:Low



Condition: 3m VERTICAL

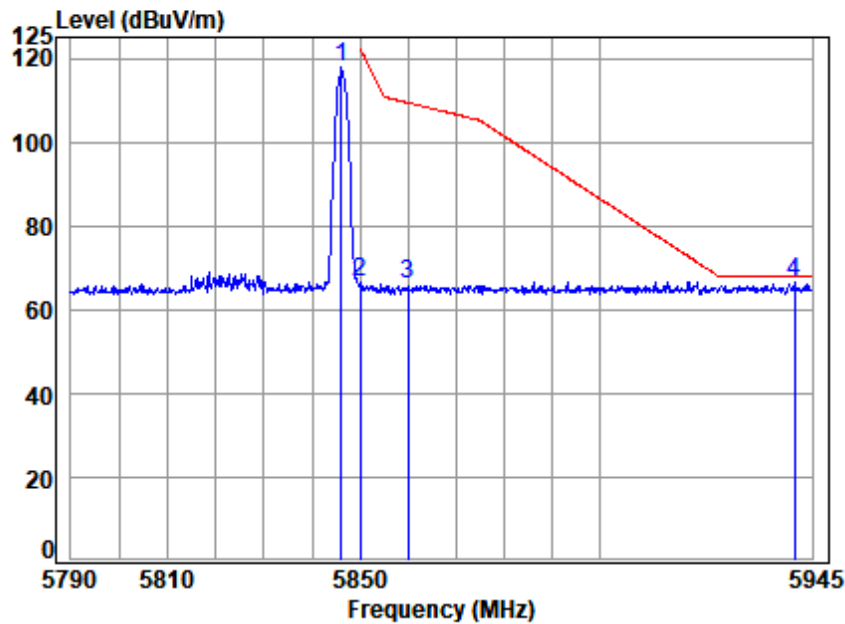
Job No : 00491AT

Mode : 5728.5 Band edge
: 5.8G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.320	10.47	33.09	30.64	53.25	66.17	68.20	-2.03	peak
2	5715.000	10.63	33.23	30.61	52.68	65.93	109.40	-43.47	peak
3	5725.000	10.68	33.25	30.61	60.05	73.37	122.20	-48.83	peak
4	5728.500	10.69	33.26	30.61	109.11	122.45	-----	-----	peak



Test Mode: 37; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

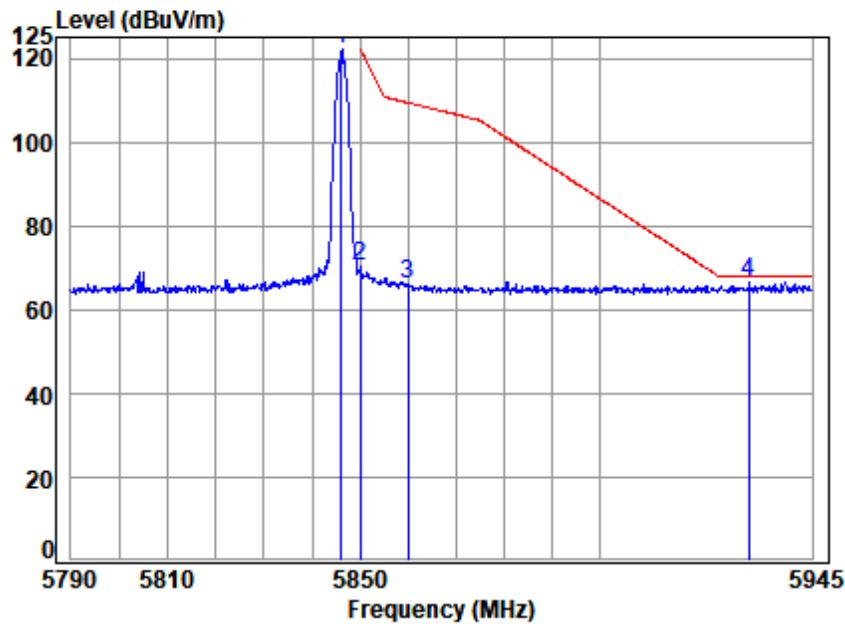
Job No : 00491AT

Mode : 5846.12 Band edge
: 5.8G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5846.120	10.96	33.58	30.56	103.68	117.66	-----	-----	peak
2	5850.000	10.95	33.60	30.56	52.49	66.48	122.20	-55.72	peak
3	5860.000	10.94	33.58	30.56	52.14	66.10	109.40	-43.30	peak
4 pp	5941.389	10.86	33.58	30.52	52.73	66.65	68.20	-1.55	peak



Test Mode: 37; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

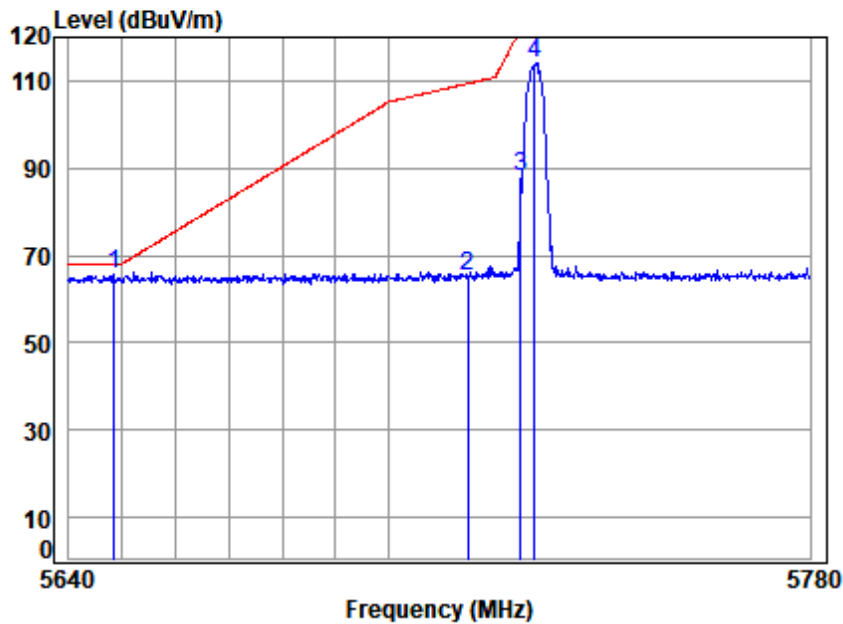
Job No : 00491AT

Mode : 5846.12 Band edge
: 5.8G SDR 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5846.120	10.96	33.58	30.56	108.09	122.07	-----	peak
2	5850.000	10.95	33.60	30.56	56.41	70.40	122.20	-51.80 peak
3	5860.000	10.94	33.58	30.56	52.00	65.96	109.40	-43.44 peak
4 pp	5931.665	10.86	33.56	30.53	52.80	66.69	68.20	-1.51 peak



Test Mode: 39; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

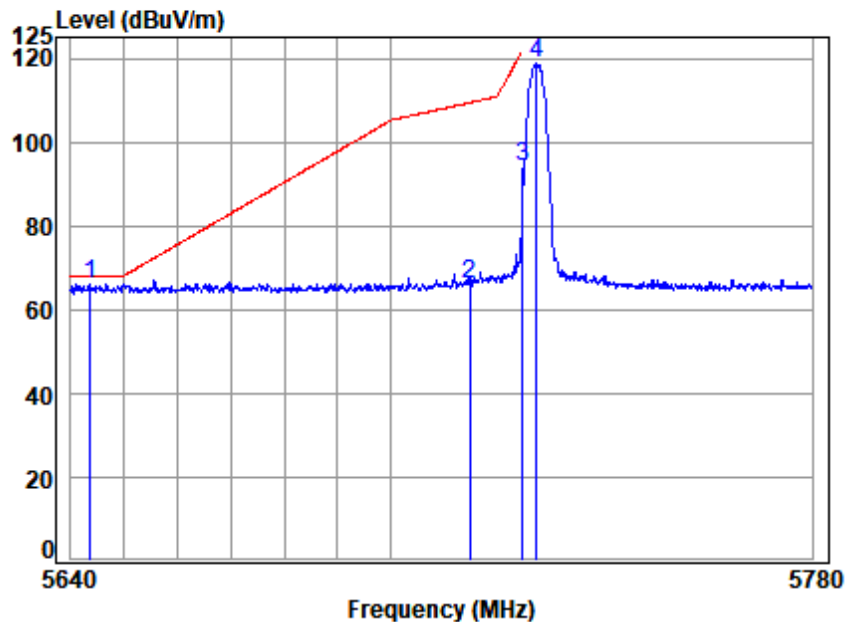
Mode : 5727.5 Band edge

: 5.8G SDR 3M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.442	10.48	33.10	30.64	52.61	65.55	68.20	-2.65	peak
2	5715.000	10.63	33.23	30.61	52.07	65.32	109.40	-44.08	peak
3	5725.000	10.68	33.25	30.61	74.88	88.20	122.20	-34.00	peak
4	5727.500	10.69	33.26	30.61	100.90	114.24	-----	-----	peak



Test Mode: 39; Polarity: Vertical; Modulation:OFDM; Channel:Low



Condition: 3m VERTICAL

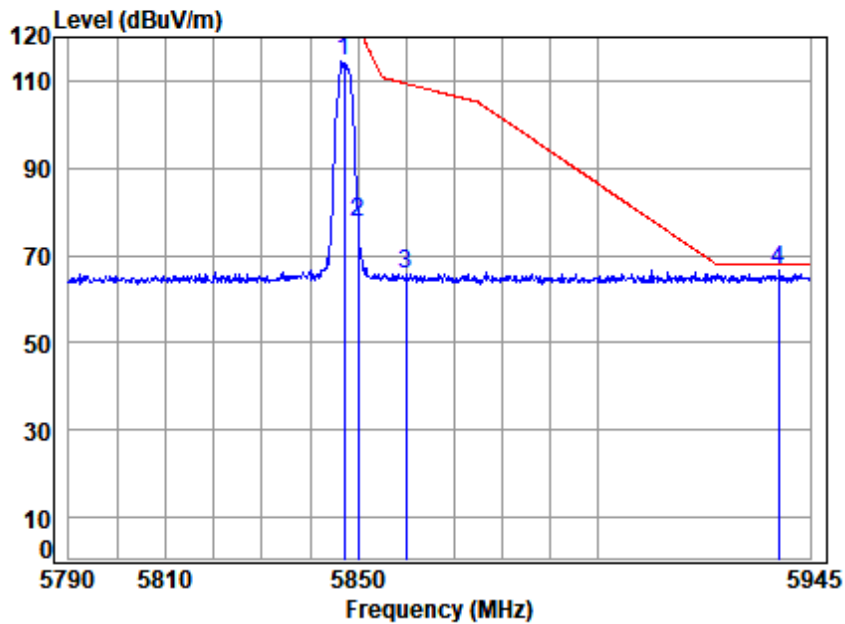
Job No : 00491AT

Mode : 5727.5 Band edge
: 5.8G SDR 3M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.597	10.48	33.09	30.64	53.22	66.15	68.20	-2.05	peak
2	5715.000	10.63	33.23	30.61	52.99	66.24	109.40	-43.16	peak
3	5725.000	10.68	33.25	30.61	80.72	94.04	122.20	-28.16	peak
4	5727.500	10.69	33.26	30.61	105.45	118.79	-----	-----	peak



Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

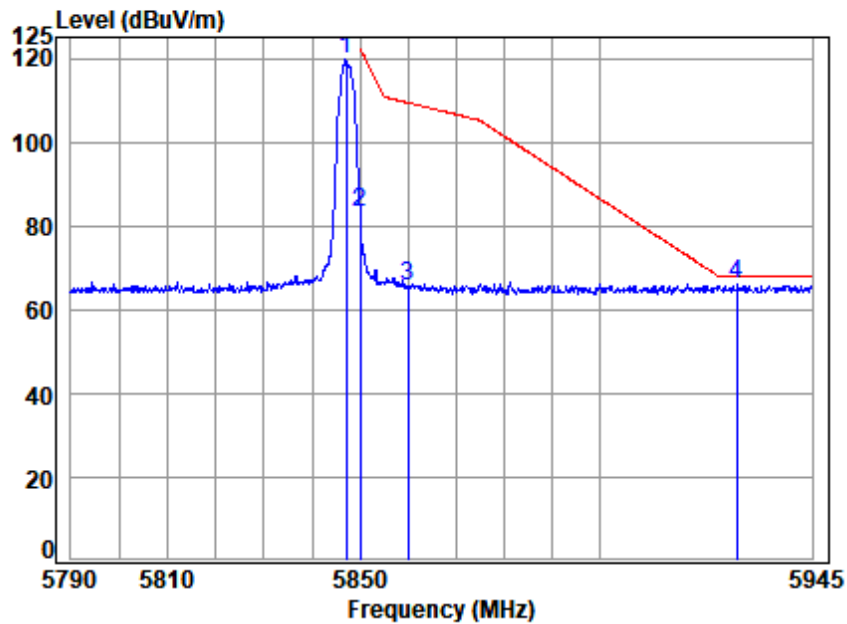
Mode : 5847.2 Band edge

: 5.8G SDR 3M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5847.200	10.96	33.59	30.56	100.31	114.30	-----	-----	peak
2	5850.000	10.95	33.60	30.56	63.77	77.76	122.20	-44.44	peak
3	5860.000	10.94	33.58	30.56	51.67	65.63	109.40	-43.77	peak
4 pp	5938.407	10.86	33.58	30.52	52.53	66.45	68.20	-1.75	peak



Test Mode: 39; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

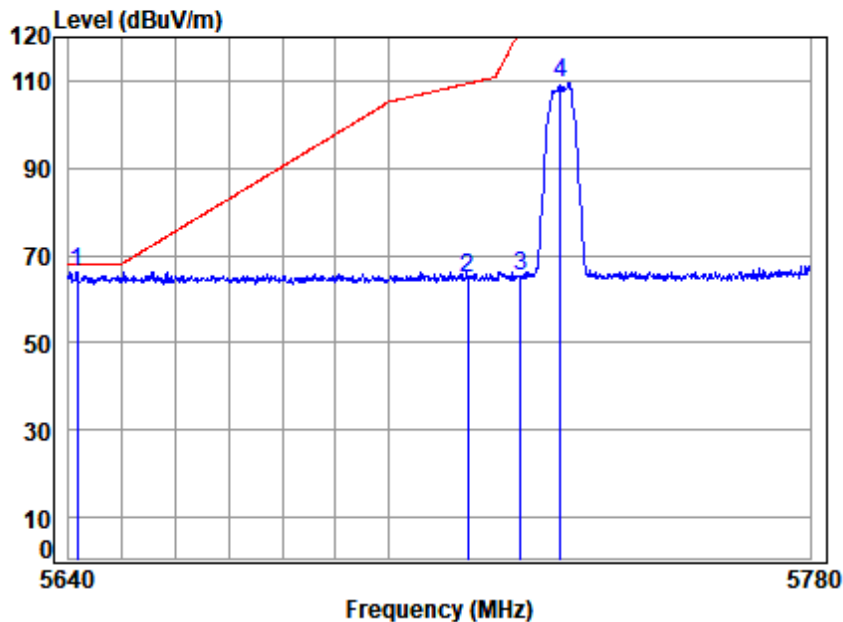
Mode : 5847.2 Band edge

: 5.8G SDR 3M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5847.200	10.96	33.59	30.56	105.66	119.65	-----	peak
2	5850.000	10.95	33.60	30.56	69.01	83.00	122.20	-39.20 peak
3	5860.000	10.94	33.58	30.56	51.84	65.80	109.40	-43.60 peak
4	pp 5929.158	10.87	33.56	30.53	52.04	65.94	68.20	-2.26 peak



Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

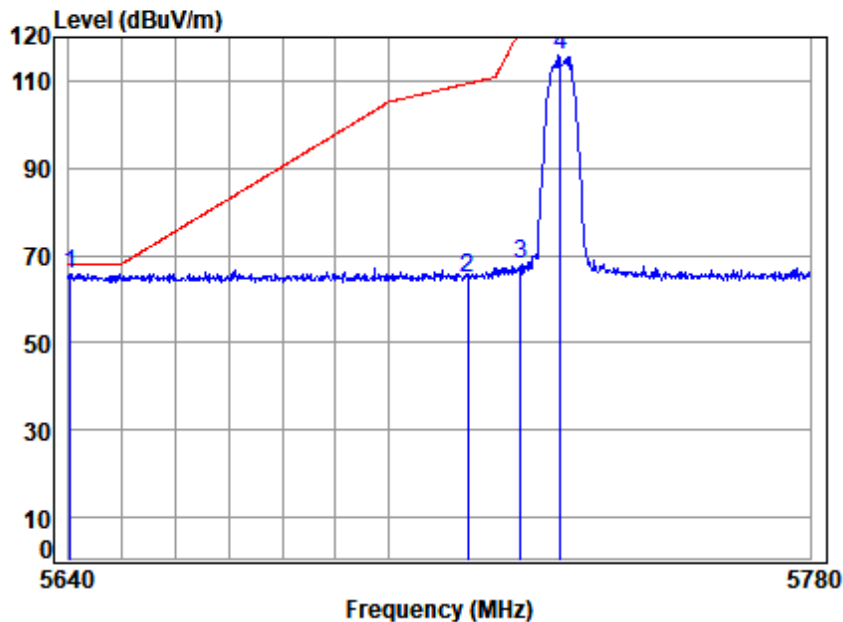
Job No : 00491AT

Mode : 5732.5 Band edge
: 5.8G SDR 5M

		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 pp 5641.521	10.47	33.08	30.64	53.23	66.14	68.20	-2.06	peak
2 5715.000	10.63	33.23	30.61	51.38	64.63	109.40	-44.77	peak
3 5725.000	10.68	33.25	30.61	51.88	65.20	122.20	-57.00	peak
4 5732.500	10.71	33.26	30.61	96.22	109.58	-----	-----	peak



Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

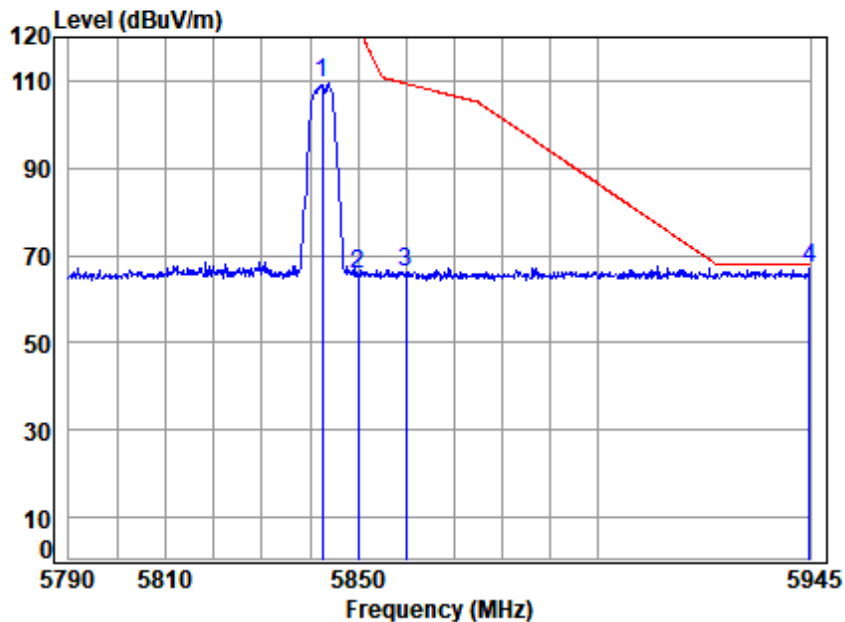
Job No : 00491AT

Mode : 5732.5 Band edge
: 5.8G SDR 5M

		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 pp	5640.276	10.47	33.08	30.64	52.82	65.73	68.20	-2.47 peak
2	5715.000	10.63	33.23	30.61	51.39	64.64	109.40	-44.76 peak
3	5725.000	10.68	33.25	30.61	54.50	67.82	122.20	-54.38 peak
4	5732.500	10.71	33.26	30.61	102.31	115.67	-----	----- peak



Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

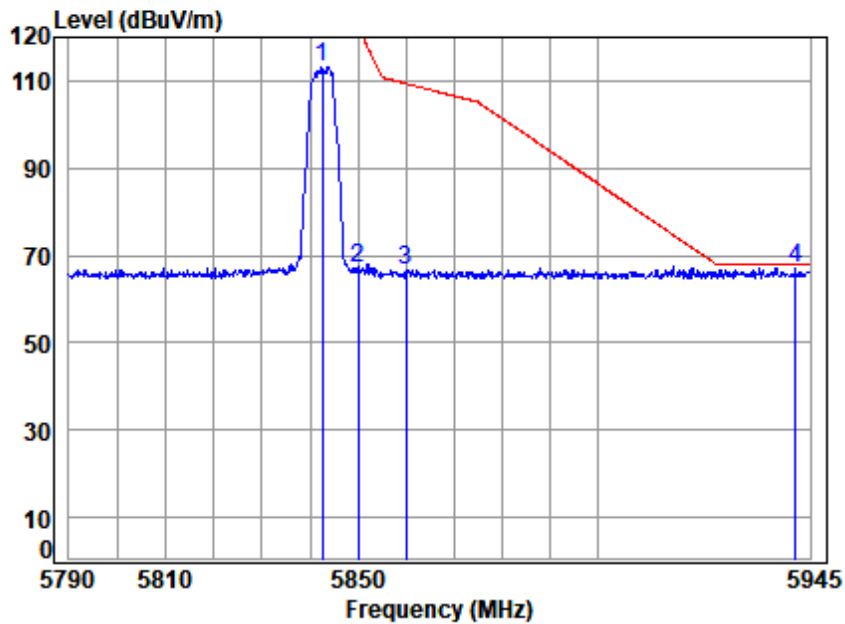
Mode : 5842.5 Band edge

: 5.8G SDR 5M

	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	
5842.500	10.96	33.57	30.56	95.70	109.67	-----	-----	peak
5850.000	10.95	33.60	30.56	51.54	65.53	122.20	-56.67	peak
5860.000	10.94	33.58	30.56	52.17	66.13	109.40	-43.27	peak
5944.843	10.85	33.59	30.52	53.12	67.04	68.20	-1.16	peak



Test Mode: 41; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

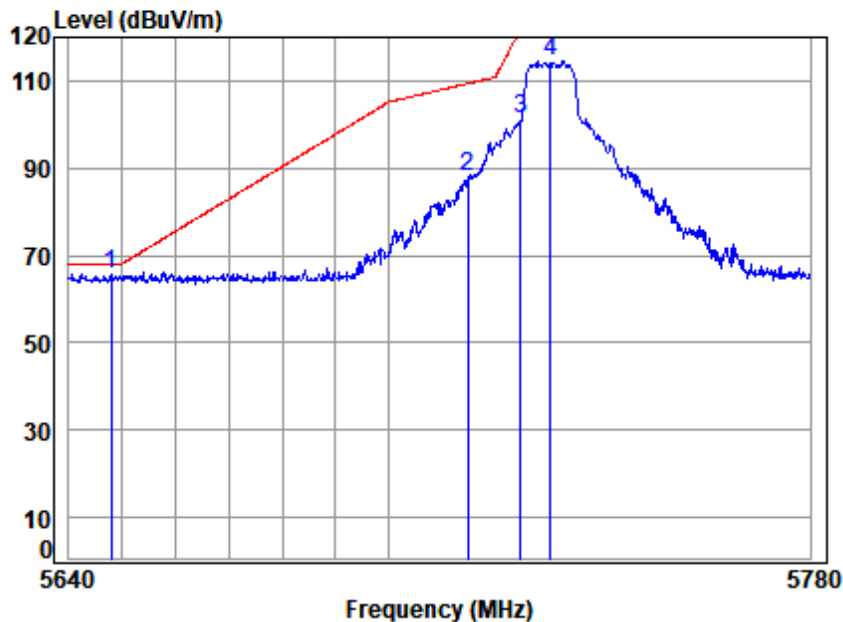
Mode : 5842.5 Band edge

: 5.8G SDR 5M

		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 5842.500	10.96	33.57	30.56	99.14	113.11	-----	-----	peak	
2 5850.000	10.95	33.60	30.56	52.89	66.88	122.20	-55.32	peak	
3 5860.000	10.94	33.58	30.56	52.62	66.58	109.40	-42.82	peak	
4 pp 5942.017	10.86	33.58	30.52	53.22	67.14	68.20	-1.06	peak	



Test Mode: 43; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

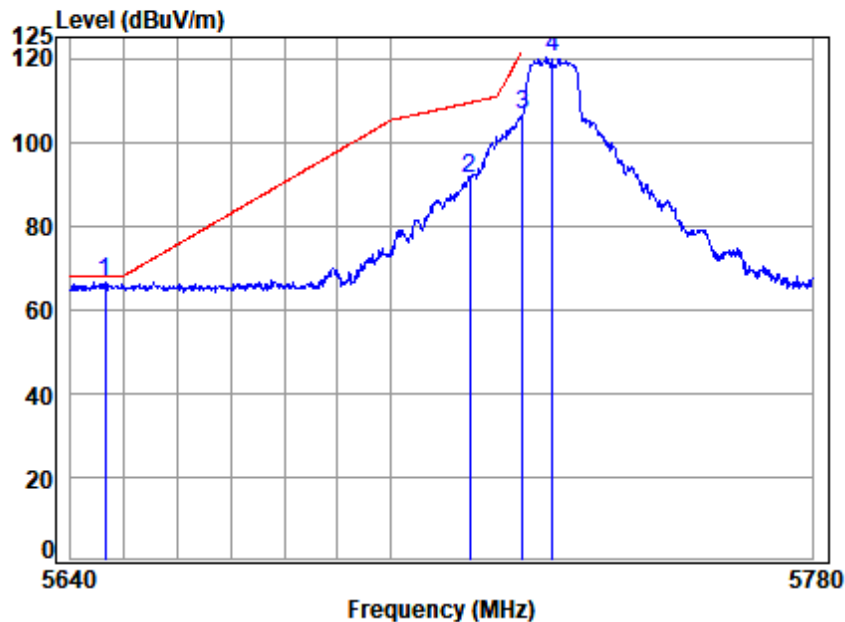
Job No : 00491AT

Mode : 5730.5 Band edge
: 5.8G 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 pp 5647.888	10.48	33.10	30.64	52.86	65.80	68.20	-2.40	peak
2 5715.000	10.63	33.23	30.61	74.74	87.99	109.40	-21.41	peak
3 5725.000	10.68	33.25	30.61	88.09	101.41	122.20	-20.79	peak
4 5730.500	10.70	33.26	30.61	101.36	114.71	-----	-----	peak



Test Mode: 43; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

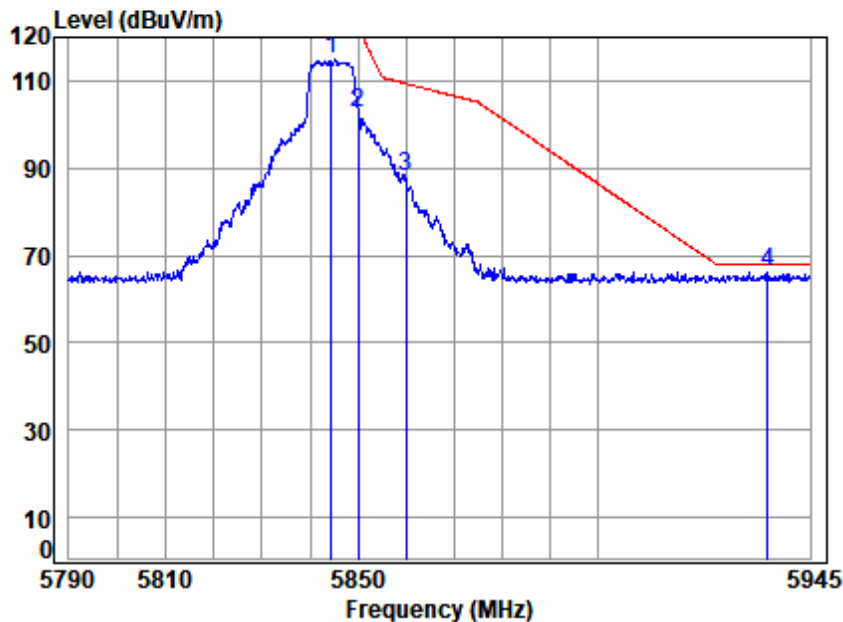
Job No : 00491AT

Mode : 5730.5 Band edge
: 5.8G 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 pp 5646.365	10.48	33.09	30.64	53.60	66.53	68.20	-1.67	peak
2 5715.000	10.63	33.23	30.61	77.99	91.24	109.40	-18.16	peak
3 5725.000	10.68	33.25	30.61	93.13	106.45	122.20	-15.75	peak
4 5730.500	10.70	33.26	30.61	106.72	120.07	-----	-----	peak



Test Mode: 43; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

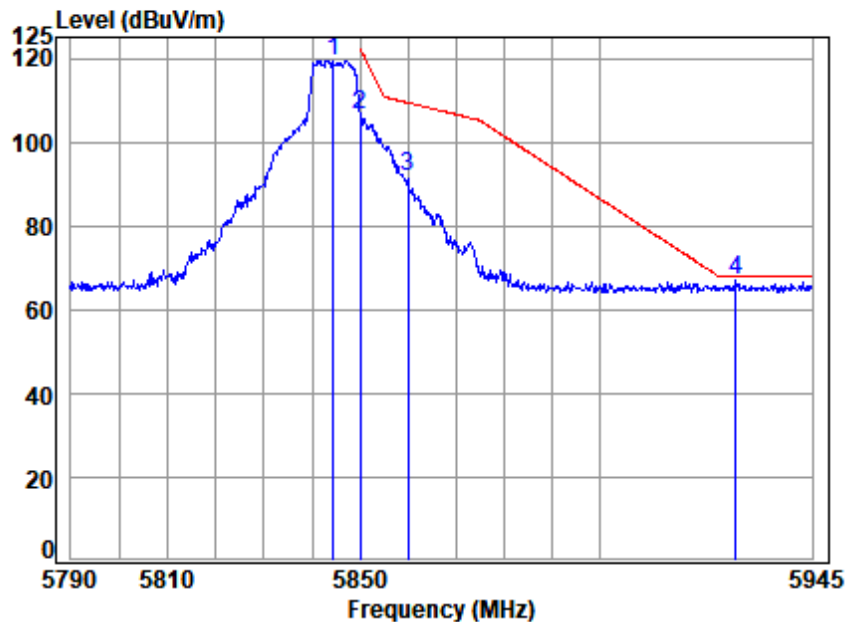
Job No : 00491AT

Mode : 5844.5 Band edge
: 5.8G 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	10.96	33.58	30.56	100.94	114.92	-----	peak
2	5850.000	10.95	33.60	30.56	88.52	102.51	122.20	-19.69 peak
3	5860.000	10.94	33.58	30.56	73.91	87.87	109.40	-21.53 peak
4	pp 5936.055	10.86	33.57	30.53	52.44	66.34	68.20	-1.86 peak



Test Mode: 43; Polarity: Vertical; Modulation: OFDM; Channel: High



Condition: 3m VERTICAL

Job No : 00491AT

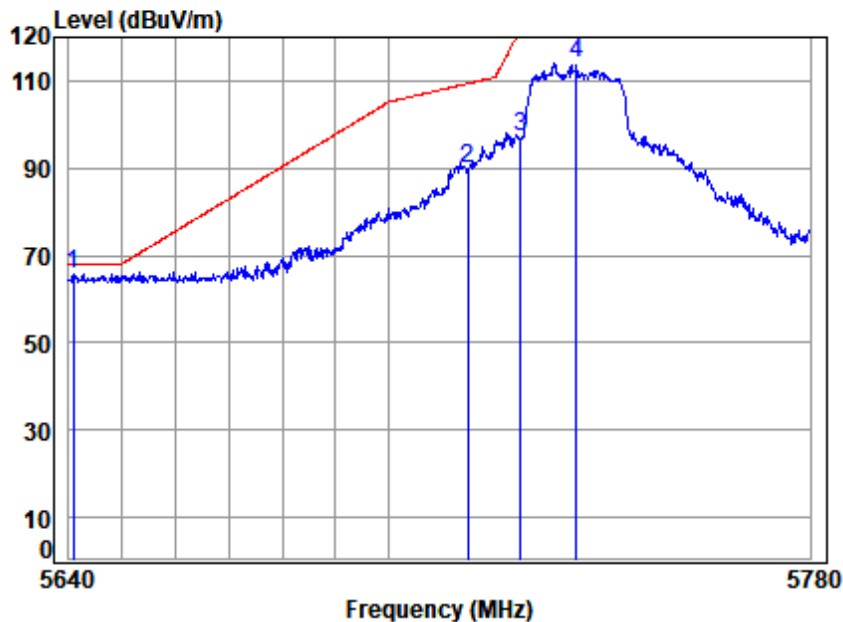
Mode : 5844.5 Band edge

: 5.8G 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	10.96	33.58	30.56	105.54	119.52	-----	peak
2	5850.000	10.95	33.60	30.56	92.66	106.65	122.20	-15.55 peak
3	5860.000	10.94	33.58	30.56	77.75	91.71	109.40	-17.69 peak
4 pp	5928.845	10.87	33.56	30.53	53.04	66.94	68.20	-1.26 peak



Test Mode: 45; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

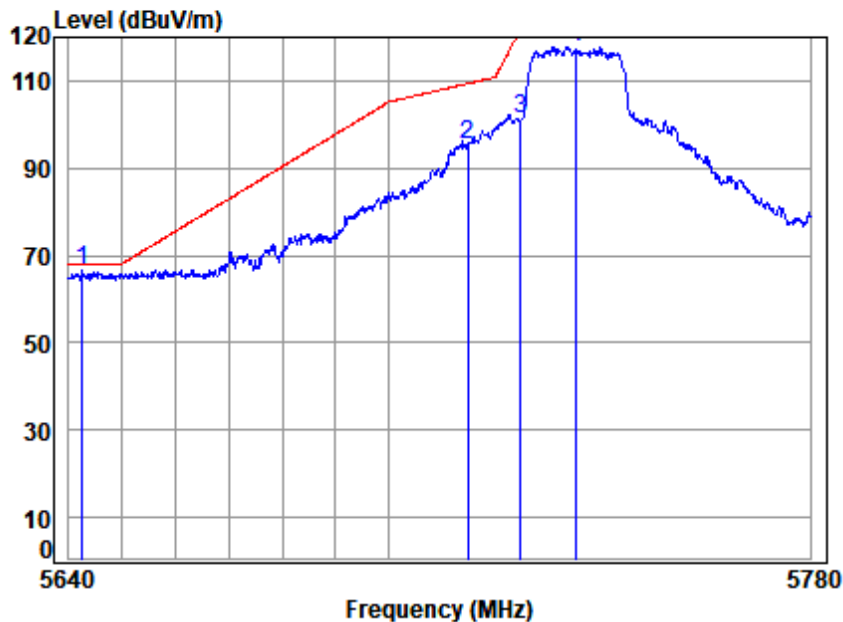
Job No : 00491AT

Mode : 5735.5 Band edge
: 5.8G 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 pp 5640.830	10.47	33.08	30.64	52.71	65.62	68.20	-2.58	peak
2 5715.000	10.63	33.23	30.61	76.86	90.11	109.40	-19.29	peak
3 5725.000	10.68	33.25	30.61	83.78	97.10	122.20	-25.10	peak
4 5735.500	10.72	33.27	30.61	100.73	114.11	-----	-----	peak



Test Mode: 45; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

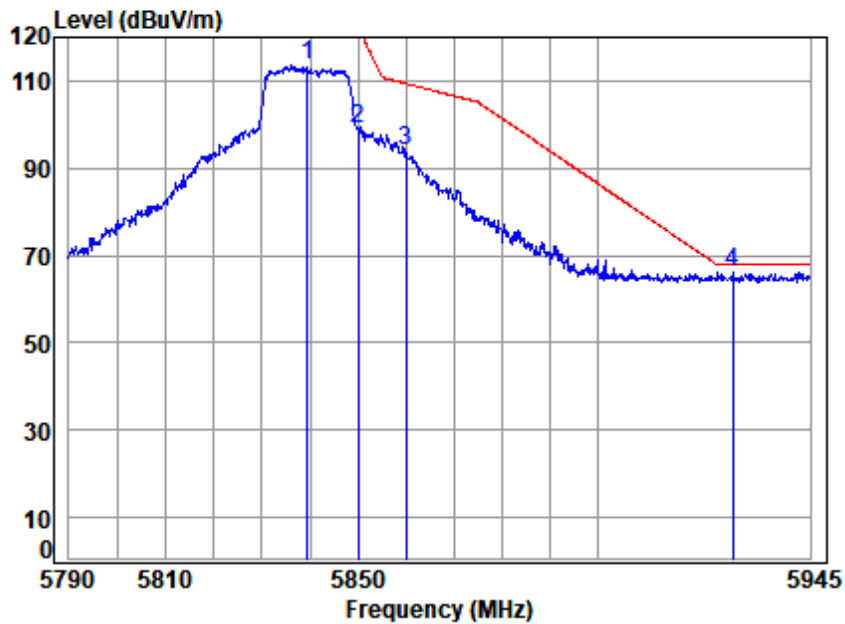
Mode : 5735.5 Band edge

: 5.8G 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 pp 5642.490	10.47	33.08	30.64	53.60	66.51	68.20	-1.69	peak
2 5715.000	10.63	33.23	30.61	82.31	95.56	109.40	-13.84	peak
3 5725.000	10.68	33.25	30.61	88.16	101.48	122.20	-20.72	peak
4 5735.500	10.72	33.27	30.61	104.42	117.80	-----	-----	peak



Test Mode: 45; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

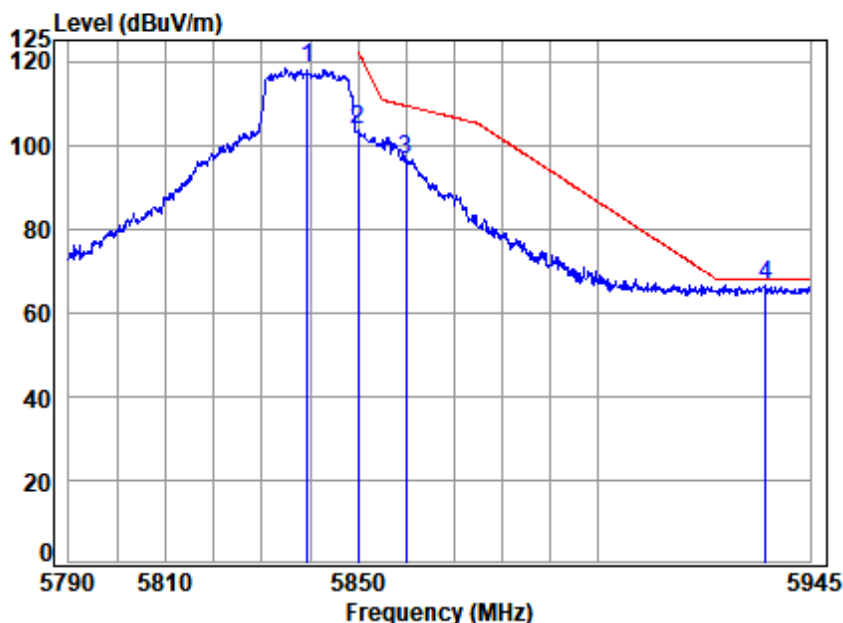
Mode : 5839.5 Band edge

: 5.8G 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	10.97	33.56	30.56	99.65	113.62	-----	peak
2	5850.000	10.95	33.60	30.56	84.98	98.97	122.20	-23.23 peak
3	5860.000	10.94	33.58	30.56	79.88	93.84	109.40	-15.56 peak
4 pp	5928.688	10.87	33.56	30.53	52.43	66.33	68.20	-1.87 peak



Test Mode: 45; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 5839.5 Band edge

: 5.8G 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	10.97	33.56	30.56	104.35	118.32	-----	peak
2	5850.000	10.95	33.60	30.56	89.83	103.82	122.20	-18.38 peak
3	5860.000	10.94	33.58	30.56	82.58	96.54	109.40	-12.86 peak
4	pp 5935.584	10.86	33.57	30.53	52.50	66.40	68.20	-1.80 peak



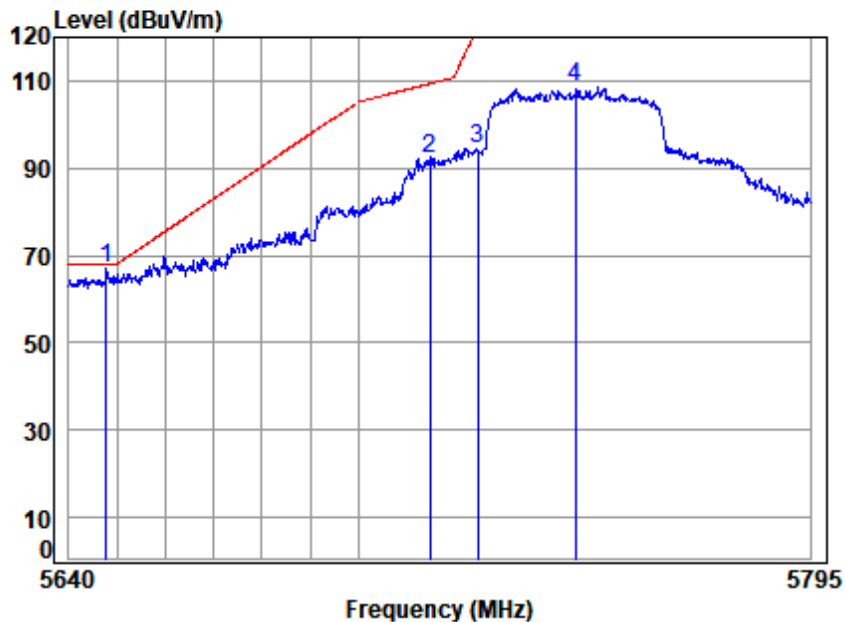
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 47; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

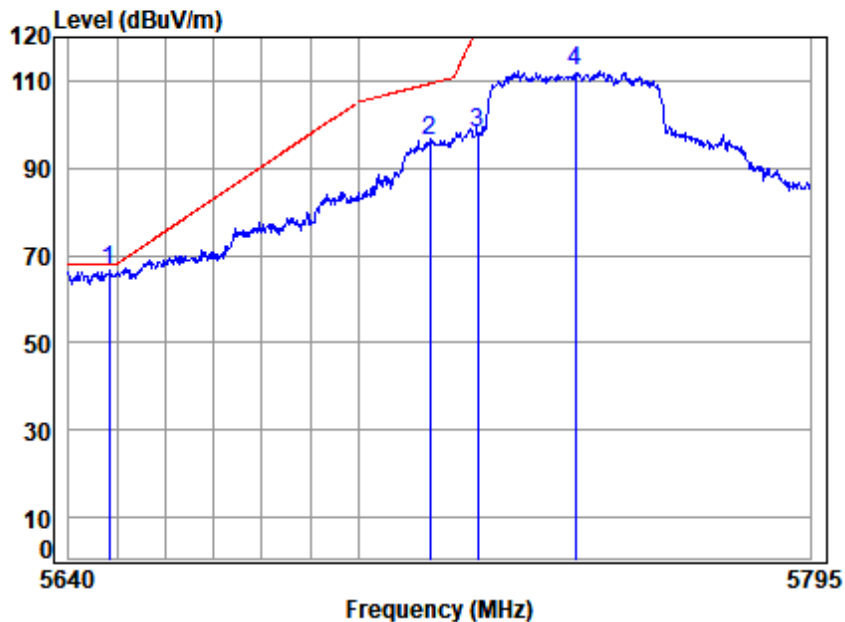
Mode : 5745.5 Band edge

: 5.8G 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 pp 5647.804	10.48	33.10	30.64	53.91	66.85	68.20	-1.35	peak
2 5715.000	10.63	33.23	30.61	78.77	92.02	109.40	-17.38	peak
3 5725.000	10.68	33.25	30.61	80.92	94.24	122.20	-27.96	peak
4 5745.500	10.77	33.29	30.60	95.15	108.61	-----	-----	peak



Test Mode: 47; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

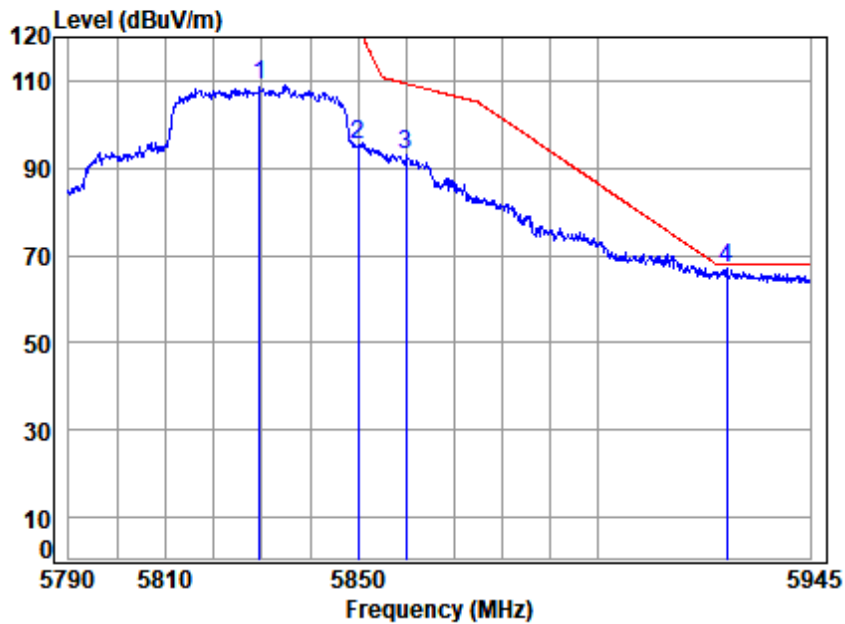
Mode : 5745.5 Band edge

: 5.8G 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 pp	5648.416	10.48	33.10	30.64	53.58	66.52	68.20	-1.68 peak
2	5715.000	10.63	33.23	30.61	82.94	96.19	109.40	-13.21 peak
3	5725.000	10.68	33.25	30.61	84.97	98.29	122.20	-23.91 peak
4	5745.500	10.77	33.29	30.60	98.84	112.30	-----	----- peak



Test Mode: 47; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

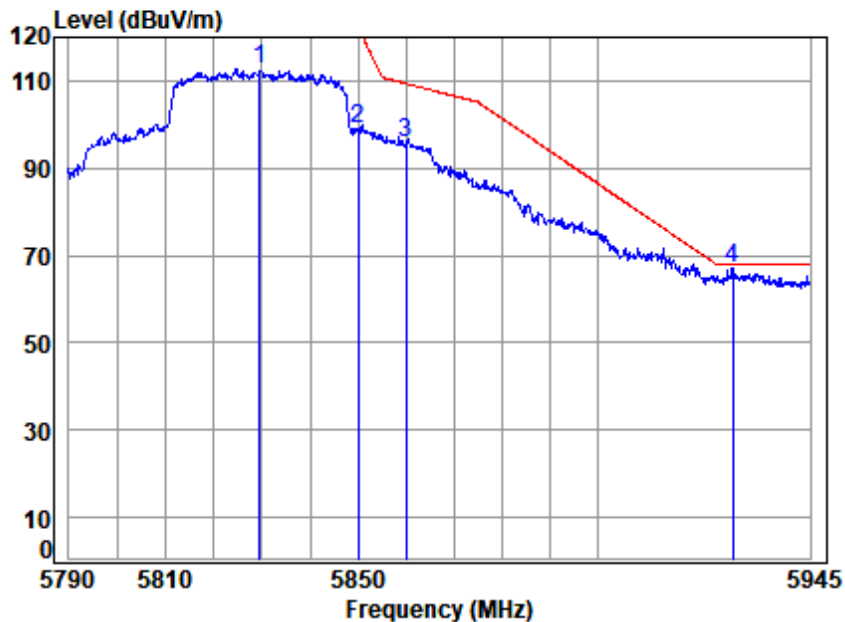
Mode : 5829.5 Band edge

: 5.8G 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	10.98	33.52	30.57	95.02	108.95	-----	-----	peak
2	5850.000	10.95	33.60	30.56	81.15	95.14	122.20	-27.06	peak
3	5860.000	10.94	33.58	30.56	78.93	92.89	109.40	-16.51	peak
4 pp	5927.279	10.87	33.55	30.53	53.01	66.90	68.20	-1.30	peak



Test Mode: 47; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

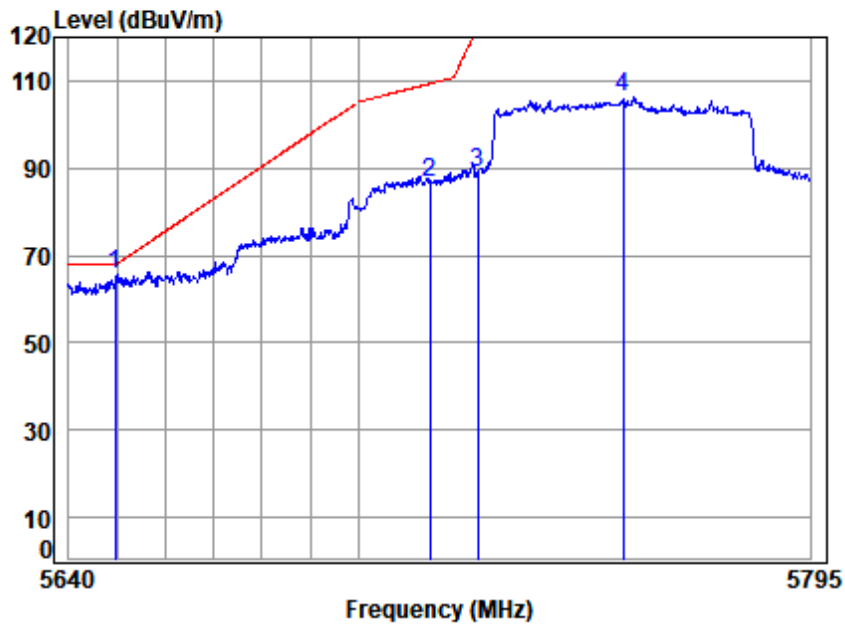
Job No : 00491AT

Mode : 5829.5 Band edge
: 5.8G 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	
5829.500	10.98	33.52	30.57	98.86	112.79	-----	-----	peak
5850.000	10.95	33.60	30.56	84.85	98.84	122.20	-23.36	peak
5860.000	10.94	33.58	30.56	81.99	95.95	109.40	-13.45	peak
5928.688	10.87	33.56	30.53	53.18	67.08	68.20	-1.12	peak



Test Mode: 49; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

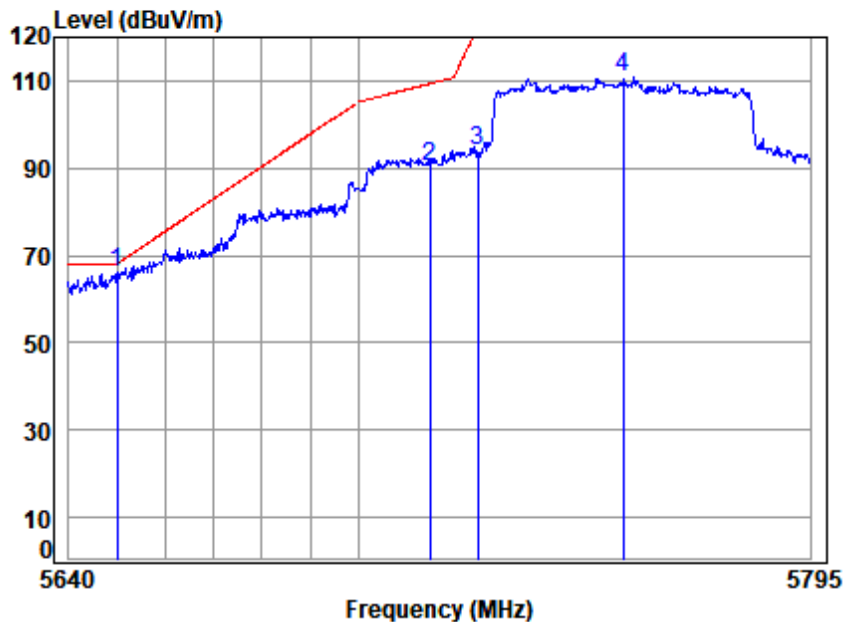
Mode : 5755.5 Band edge

: 5.8G 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 pp 5649.642	10.48	33.10	30.64	52.70	65.64	68.20	-2.56	peak
2 5715.000	10.63	33.23	30.61	73.44	86.69	109.40	-22.71	peak
3 5725.000	10.68	33.25	30.61	75.51	88.83	122.20	-33.37	peak
4 5755.500	10.82	33.31	30.60	92.98	106.51	-----	-----	peak



Test Mode: 49; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

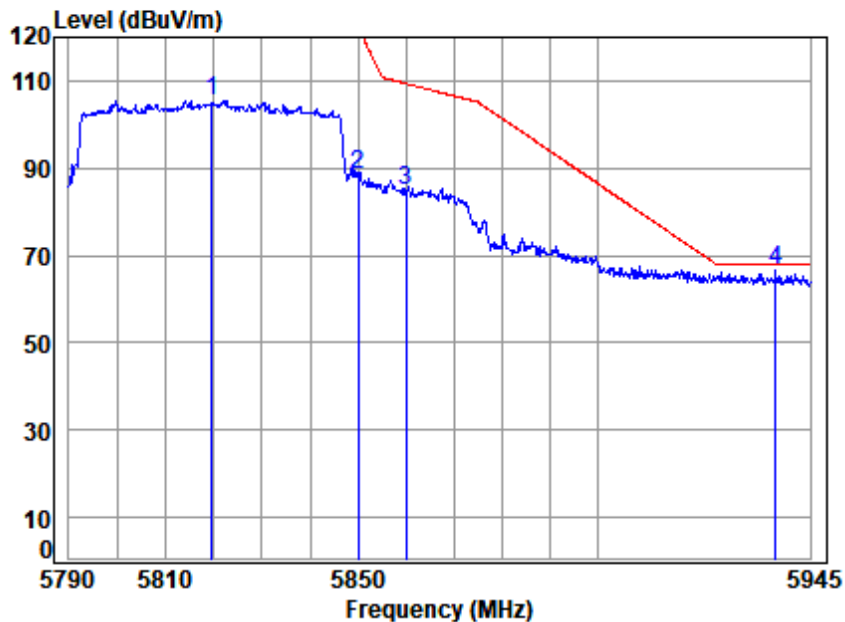
Mode : 5755.5 Band edge

: 5.8G 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 pp	5649.948	10.48	33.10	30.64	53.37	66.31	68.20	-1.89 peak
2	5715.000	10.63	33.23	30.61	77.27	90.52	109.40	-18.88 peak
3	5725.000	10.68	33.25	30.61	80.54	93.86	122.20	-28.34 peak
4	5755.500	10.82	33.31	30.60	97.20	110.73	-----	----- peak



Test Mode: 49; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

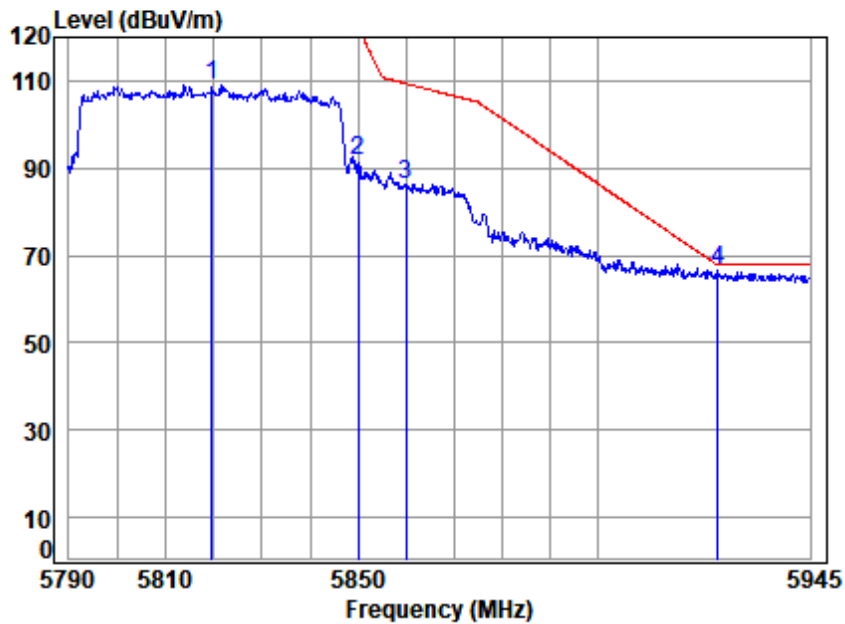
Mode : 5819.5 Band edge

: 5.8G 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	10.99	33.48	30.57	91.54	105.44	-----	peak
2	5850.000	10.95	33.60	30.56	74.49	88.48	122.20	-33.72 peak
3	5860.000	10.94	33.58	30.56	71.06	85.02	109.40	-24.38 peak
4 pp	5937.780	10.86	33.58	30.52	52.67	66.59	68.20	-1.61 peak



Test Mode: 49; Polarity: Vertical; Modulation: OFDM; Channel: High



Condition: 3m VERTICAL

Job No : 00491AT

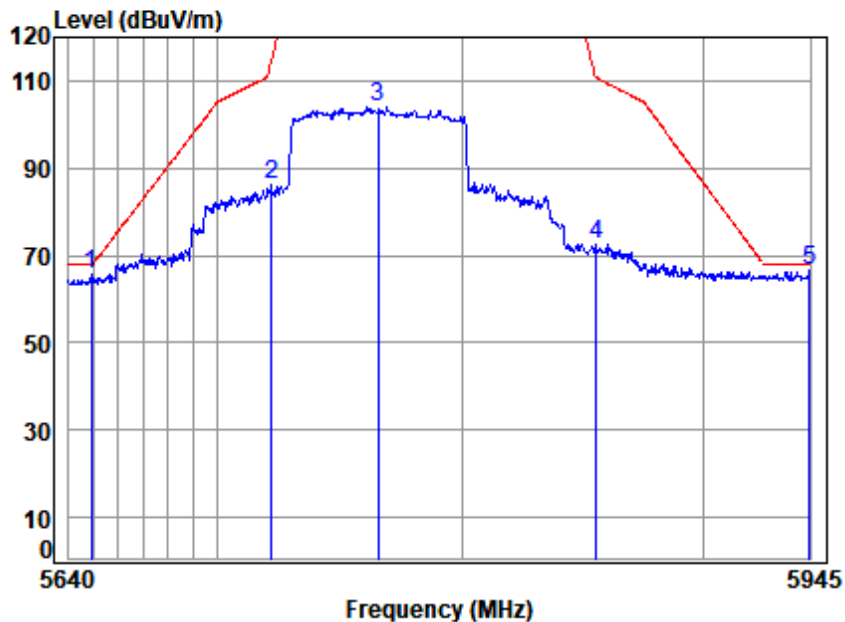
Mode : 5819.5 Band edge

: 5.8G 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	10.99	33.48	30.57	95.06	108.96	-----	-----	peak
2	5850.000	10.95	33.60	30.56	77.63	91.62	122.20	-30.58	peak
3	5860.000	10.94	33.58	30.56	72.32	86.28	109.40	-23.12	peak
4 pp	5925.557	10.87	33.55	30.53	52.58	66.47	68.20	-1.73	peak



Test Mode: 51; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00491AT

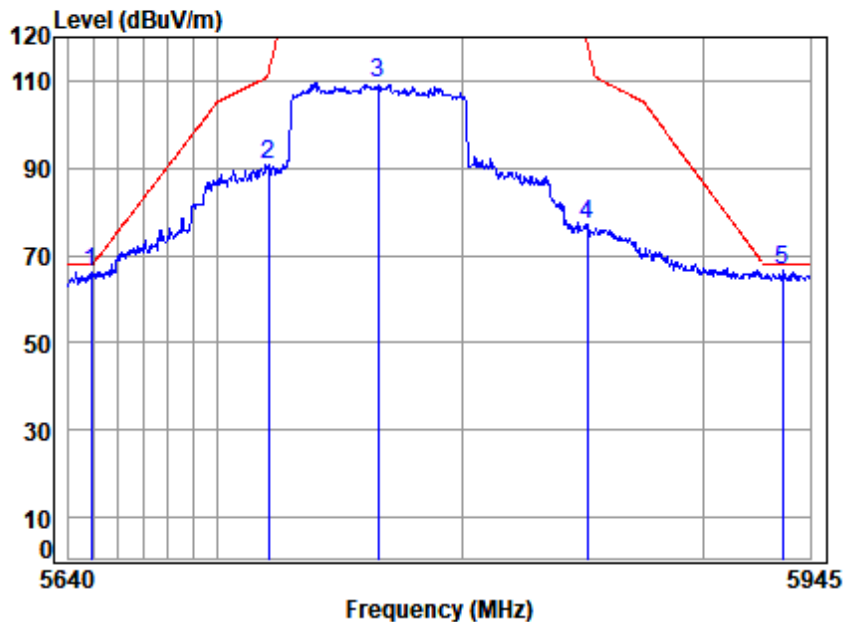
Mode : 5765.5 Band edge

: 5.8G 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	5649.216	10.48	33.10	30.64	52.87	65.81	68.20	-2.39 Peak
2	5721.677	10.66	33.24	30.61	72.73	86.02	114.62	-28.60 peak
3	5765.500	10.86	33.33	30.59	90.51	104.11	-----	----- peak
4	5855.199	10.95	33.59	30.56	58.71	72.69	110.74	-38.05 peak
5 pp	5944.687	10.85	33.59	30.52	52.88	66.80	68.20	-1.40 peak



Test Mode: 51; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

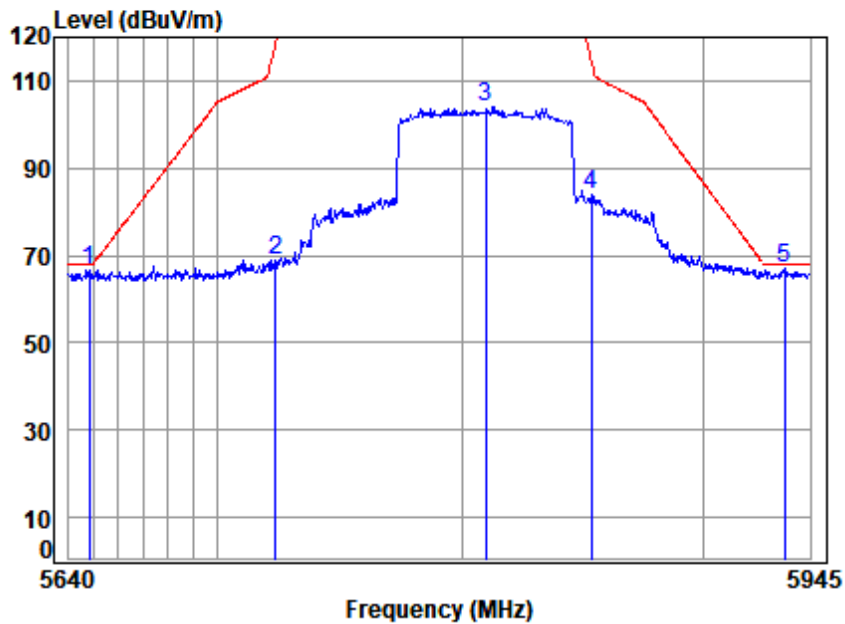
Mode : 5765.5 Band edge

: 5.8G 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	5649.216	10.48	33.10	30.64	53.20	66.14	68.20	-2.06 Peak
2	5720.773	10.66	33.24	30.61	77.52	90.81	112.56	-21.75 peak
3	5765.500	10.86	33.33	30.59	95.89	109.49	-----	----- peak
4	5851.500	10.95	33.60	30.56	63.23	77.22	118.78	-41.56 peak
5 pp	5933.426	10.86	33.57	30.53	52.82	66.72	68.20	-1.48 peak



Test Mode: 51; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

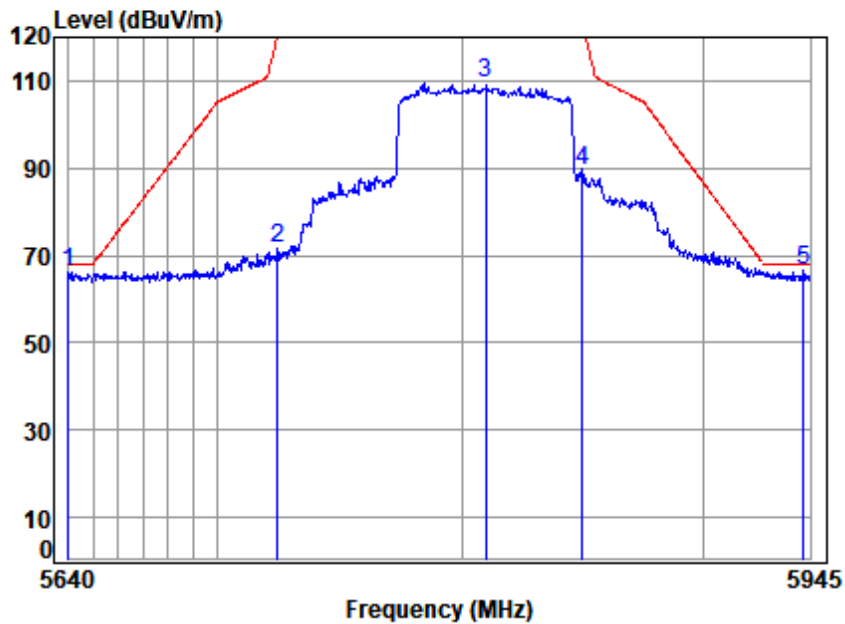
Mode : 5809.5 Band edge

: 5.8G 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	5648.323	10.48	33.10	30.64	53.65	66.59	68.20	-1.61	Peak
2	5723.486	10.67	33.25	30.61	55.55	68.86	118.75	-49.89	peak
3	5809.500	11.01	33.44	30.58	90.22	104.09	-----	-----	peak
4	5853.349	10.95	33.59	30.56	69.92	83.90	114.56	-30.66	peak
5 pp	5934.052	10.86	33.57	30.53	53.03	66.93	68.20	-1.27	peak



Test Mode: 51; Polarity: Vertical; Modulation: OFDM; Channel: High



Condition: 3m VERTICAL

Job No : 00491AT

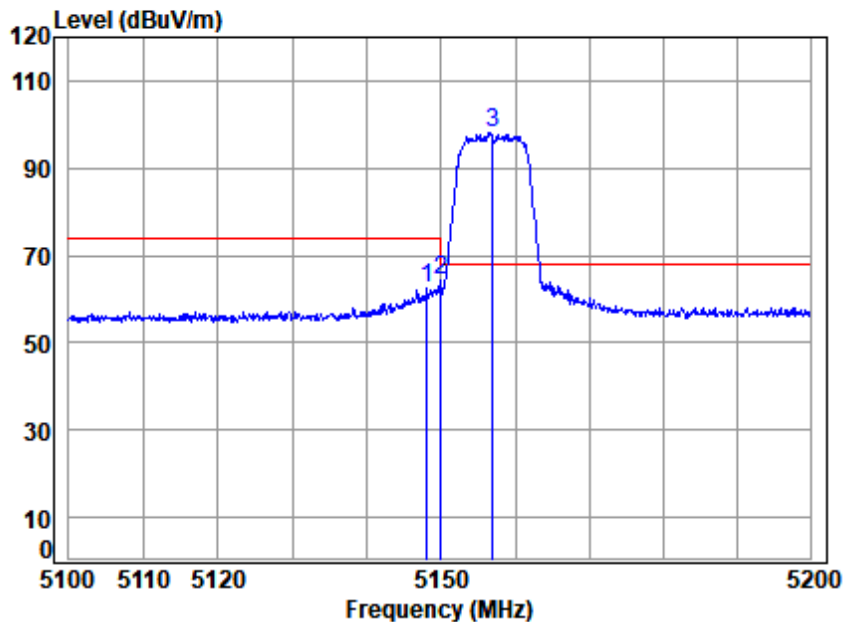
Mode : 5809.5 Band edge

: 5.8G 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	5640.000	10.47	33.08	30.64	53.30	66.21	68.20	-1.99 Peak
2	5724.088	10.67	33.25	30.61	58.20	71.51	120.12	-48.61 peak
3	5809.500	11.01	33.44	30.58	95.41	109.28	-----	----- peak
4	5849.650	10.96	33.60	30.56	75.44	89.44	-----	----- peak
5 pp	5942.183	10.86	33.58	30.52	52.63	66.55	68.20	-1.65 peak



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

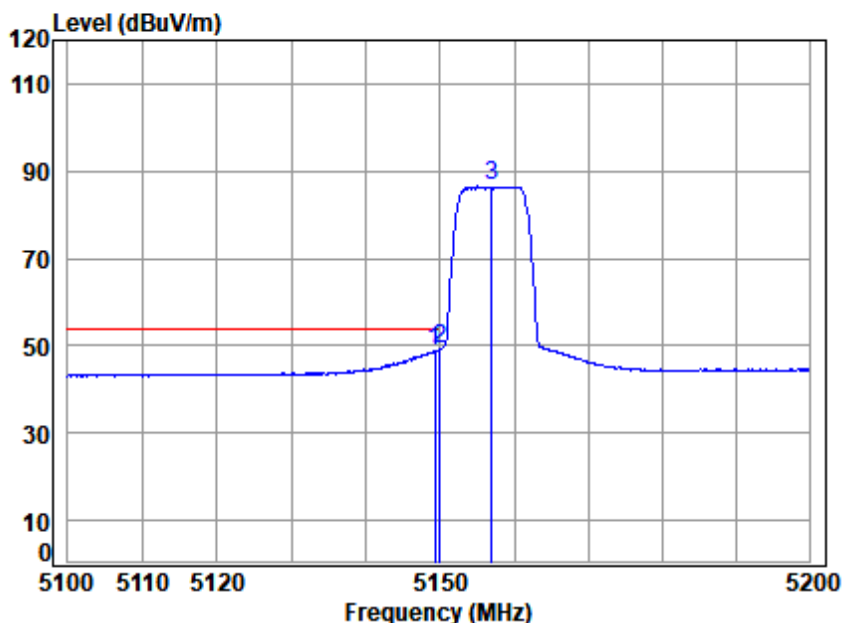
Job No : 00491AT

Mode : 5157 Band edge
: 5.1G SDR 10M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.058	10.13	32.40	30.84	50.77	62.46	74.00	-11.54	peak
2	5149.980	10.14	32.40	30.84	52.74	64.44	74.00	-9.56	peak
3 pp	5157.000	10.17	32.41	30.84	86.53	98.27	68.20	30.07	peak



Test Mode: 53; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

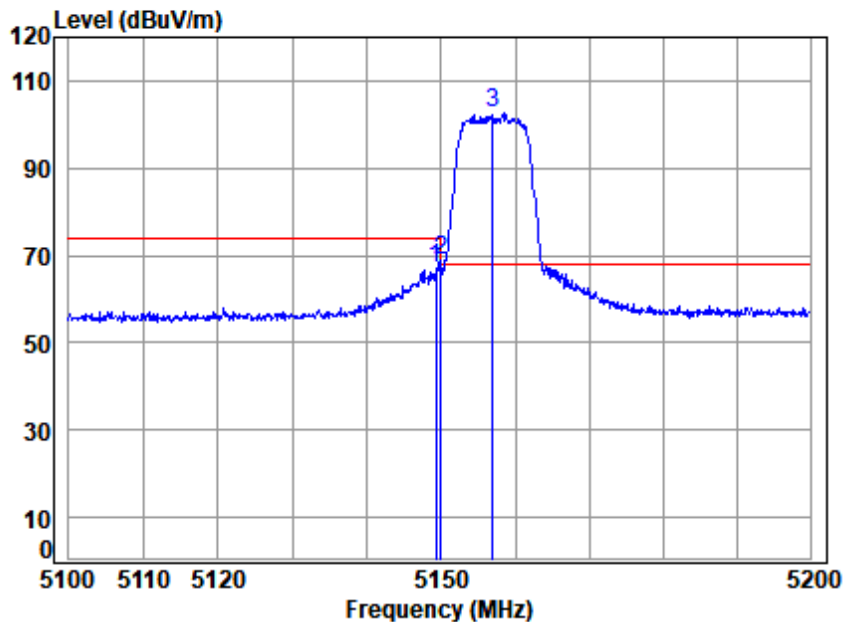
Mode : 5157 Band edge

: 5.1G 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	10.14	32.40	30.84	37.23	48.93	54.00	-5.07	Average
2 pp	5149.980	10.14	32.40	30.84	37.70	49.40	54.00	-4.60	Average
3	5157.000	10.17	32.41	30.84	74.79	86.53	-----	-----	Average



Test Mode: 53; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

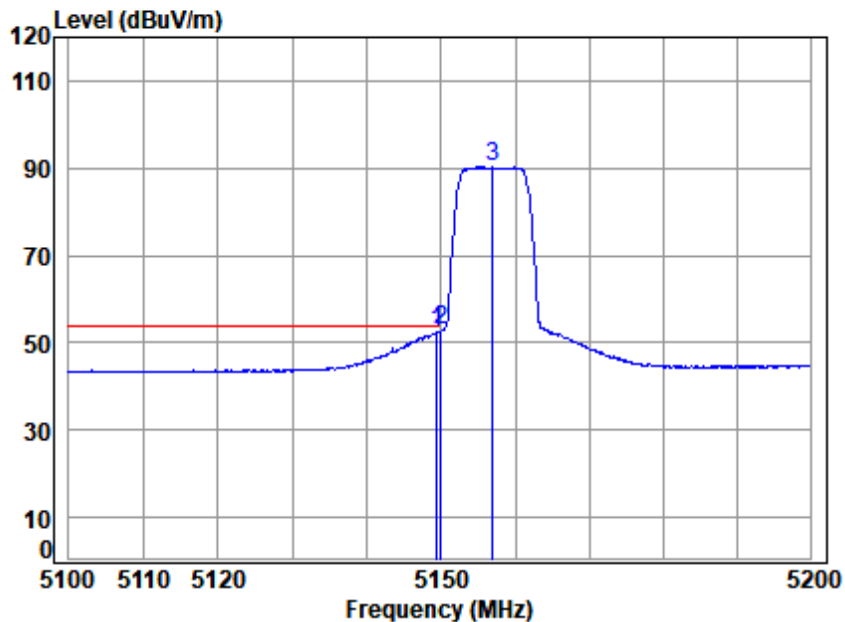
Mode : 5157 Band edge

: 5.1G 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	10.14	32.40	30.84	55.47	67.17	74.00	-6.83	Peak
2	5149.980	10.14	32.40	30.84	57.29	68.99	74.00	-5.01	Peak
3 pp	5157.000	10.17	32.41	30.84	90.76	102.50	68.20	34.30	Peak



Test Mode: 53; Polarity: Vertical; Modulation:OFDM; Channel:Low



Condition: 3m VERTICAL

Job No : 00491AT

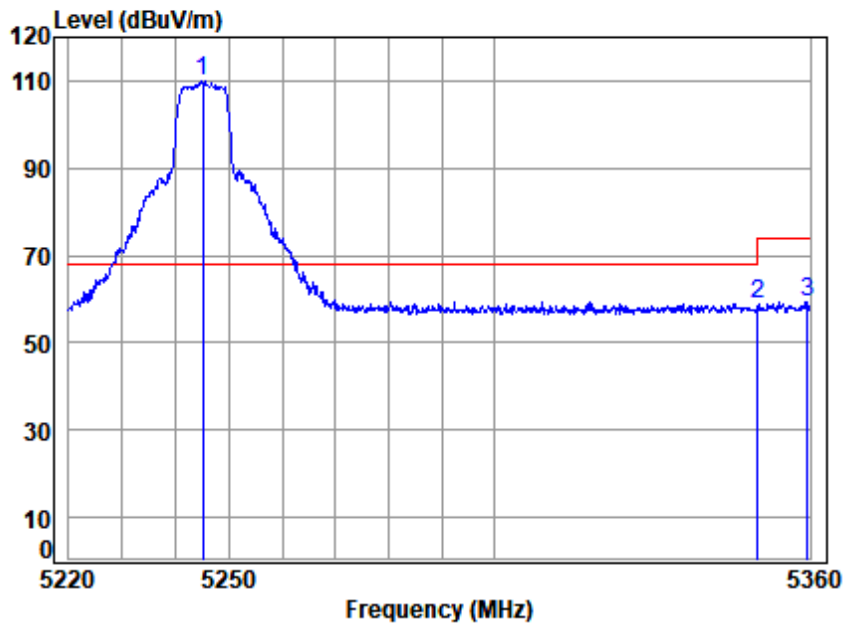
Mode : 5157 Band edge

: 5.1G 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	5149.357	10.14	32.40	30.84	40.60	52.30	54.00	-1.70	Average
2 pp	5149.980	10.14	32.40	30.84	41.21	52.91	54.00	-1.09	Average
3	5157.000	10.17	32.41	30.84	78.57	90.31	-----	-----	Average



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

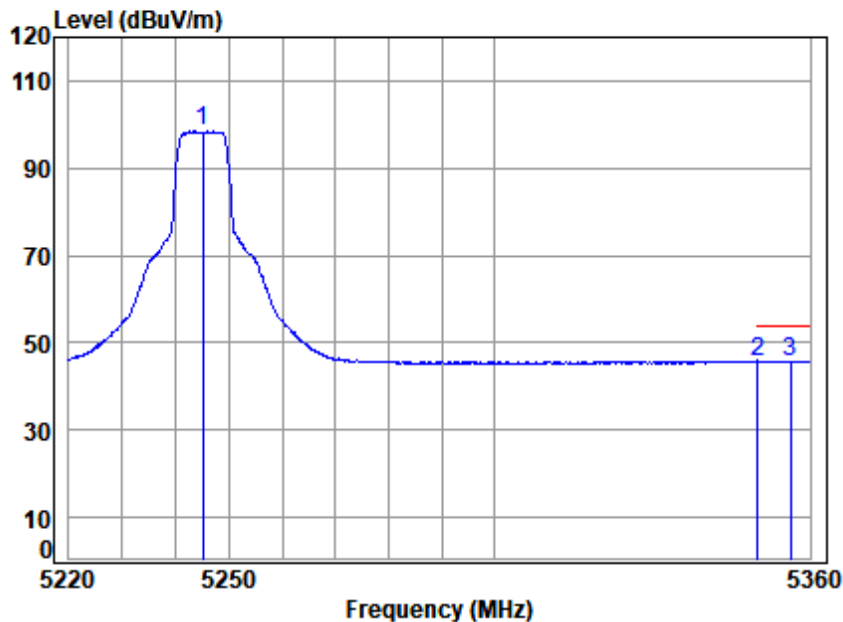
Job No : 00491AT

Mode : 5245 Band edge
: 5.1G 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 pp	5245.000	10.31	32.59	30.80	98.02	110.12	68.20	41.92	peak
2	5350.020	10.45	32.80	30.76	46.28	58.77	74.00	-15.23	peak
3	5359.433	10.48	32.80	30.76	46.86	59.38	74.00	-14.62	peak



Test Mode: 53; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5245 Band edge
: 5.1G 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	10.31	32.59	30.80	86.27	98.37	-----	-----	Average
2	5350.020	10.45	32.80	30.76	33.22	45.71	54.00	-8.29	Average
3 pp	5356.313	10.47	32.80	30.76	33.32	45.83	54.00	-8.17	Average



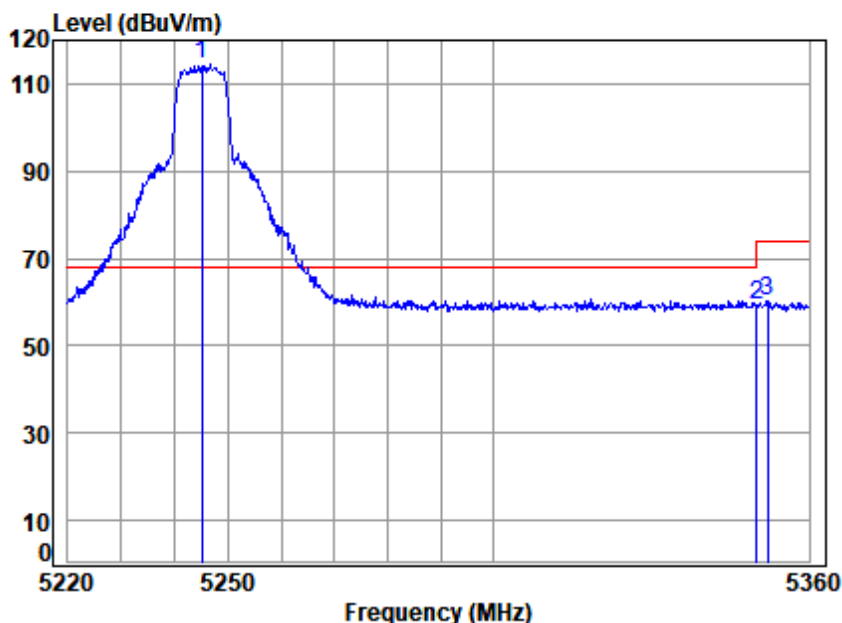
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Test Mode: 53; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

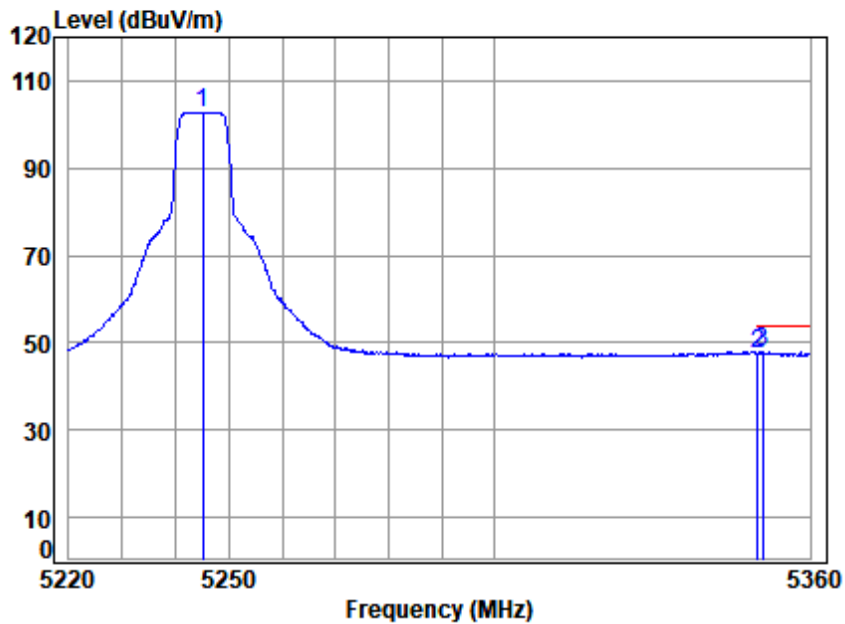
Mode : 5245 Band edge

: 5.1G 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 pp	5245.000	10.31	32.59	30.80	102.29	114.39	68.20	46.19	Peak
2	5350.020	10.45	32.80	30.76	46.83	59.32	74.00	-14.68	Peak
3	5352.062	10.46	32.80	30.76	47.61	60.11	74.00	-13.89	Peak



Test Mode: 53; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

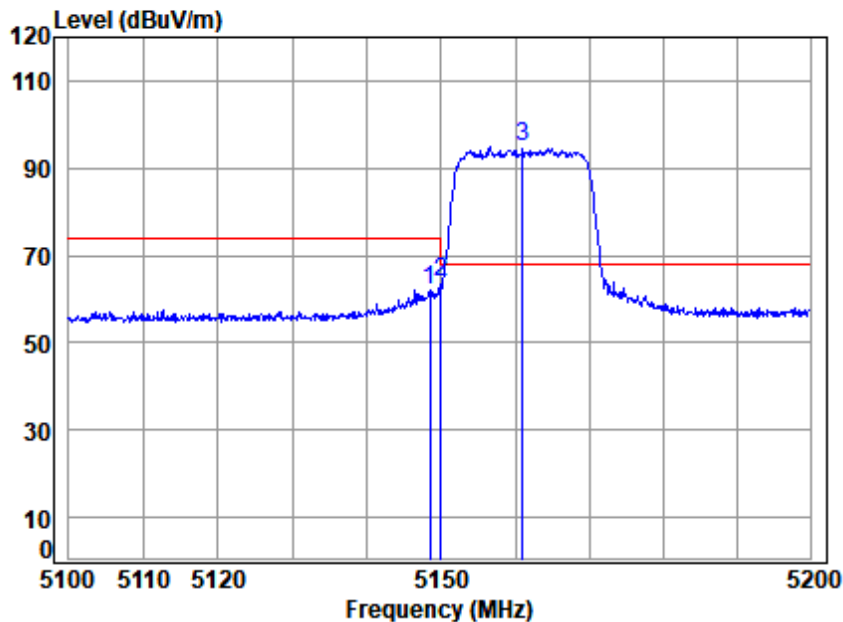
Job No : 00491AT

Mode : 5245 Band edge
: 5.1G 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	10.31	32.59	30.80	90.74	102.84	-----	-----	Average
2	5350.020	10.45	32.80	30.76	35.04	47.53	54.00	-6.47	Average
3 pp	5350.929	10.45	32.80	30.76	35.38	47.87	54.00	-6.13	Average



Test Mode: 55; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

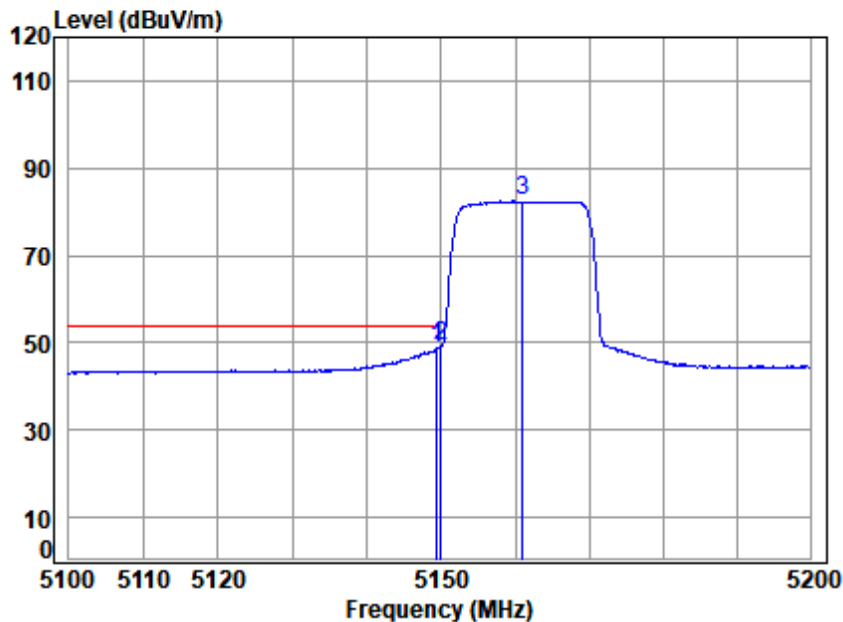
Job No : 00491AT

Mode : 5161 Band edge
: 5.1G SDR 20M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.458	10.13	32.40	30.84	50.48	62.17	74.00	-11.83	peak
2	5149.980	10.14	32.40	30.84	52.40	64.10	74.00	-9.90	peak
3	pp 5161.000	10.18	32.42	30.84	82.97	94.73	68.20	26.53	peak



Test Mode: 55; Polarity: Horizontal; Modulation:OFDM; Channel:Low



Condition: 3m HORIZONTAL

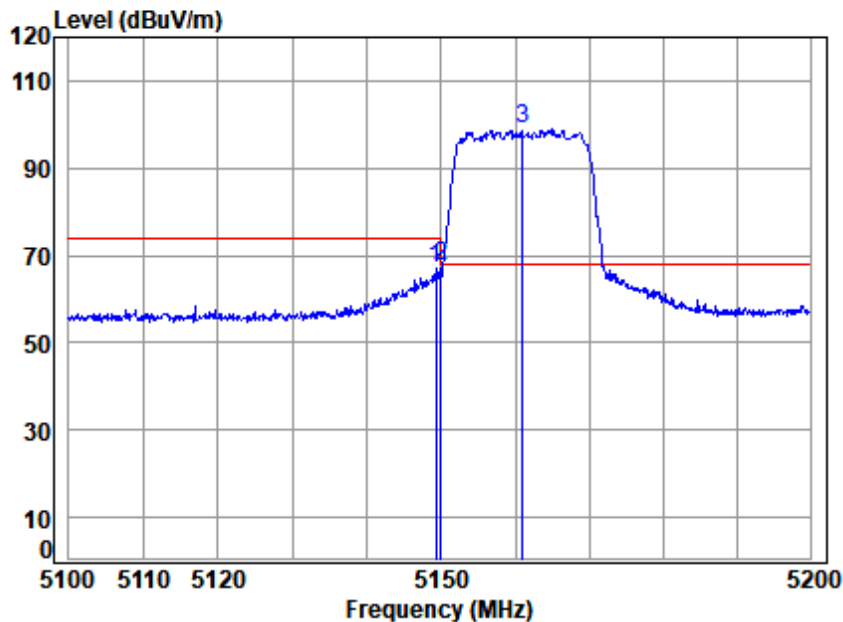
Job No : 00491AT

Mode : 5161 Band edge
: 5.1G 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	10.14	32.40	30.84	37.04	48.74	54.00	-5.26	Average
2 pp	5149.980	10.14	32.40	30.84	37.77	49.47	54.00	-4.53	Average
3	5161.000	10.18	32.42	30.84	70.63	82.39	-----	-----	Average



Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

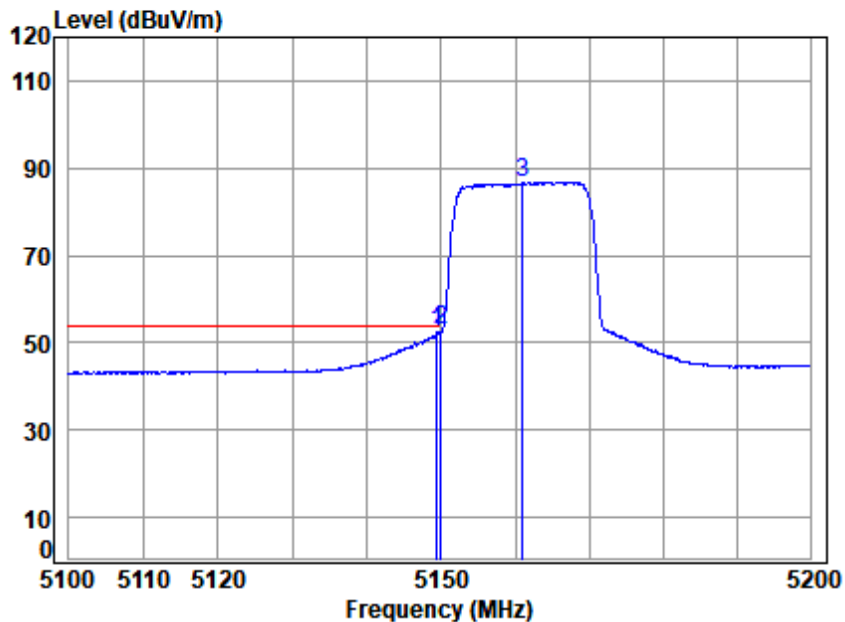
Mode : 5161 Band edge

: 5.1G 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	5149.257	10.14	32.40	30.84	55.54	67.24	74.00	-6.76	Peak
2	5149.980	10.14	32.40	30.84	55.94	67.64	74.00	-6.36	Peak
3 pp	5161.000	10.18	32.42	30.84	87.34	99.10	68.20	30.90	Peak



Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

Job No : 00491AT

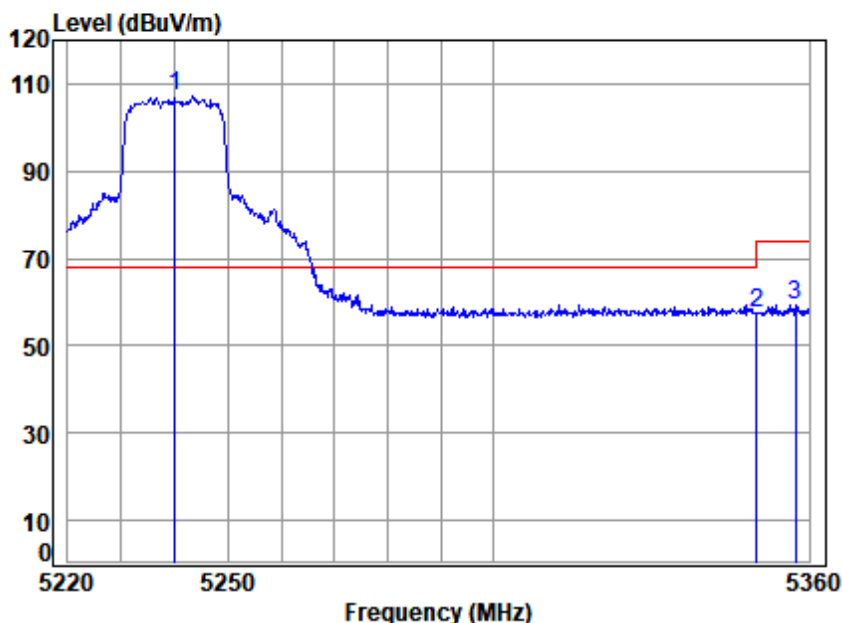
Mode : 5161 Band edge

: 5.1G 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	10.14	32.40	30.84	40.55	52.25	54.00	-1.75	Average
2 pp	5149.980	10.14	32.40	30.84	41.27	52.97	54.00	-1.03	Average
3	5161.000	10.18	32.42	30.84	75.08	86.84	-----	-----	Average



Test Mode: 55; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5240 Band edge

: 5.1G 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 pp	5240.000	10.31	32.58	30.80	94.91	107.00	68.20	38.80	peak
2	5350.020	10.45	32.80	30.76	45.16	57.65	74.00	-16.35	peak
3	5357.447	10.48	32.80	30.76	46.68	59.20	74.00	-14.80	peak



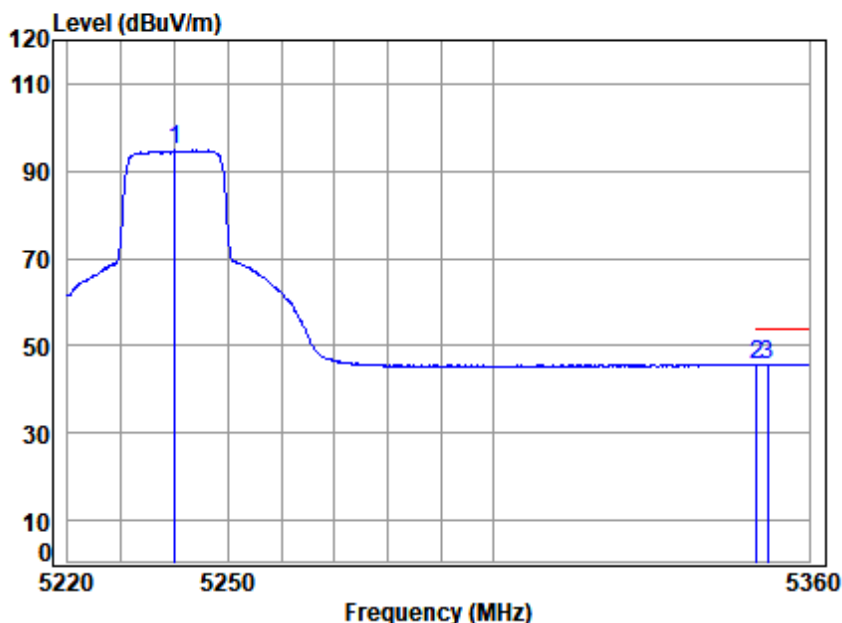
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Test Mode: 55; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 5240 Band edge

: 5.1G SDR 20M

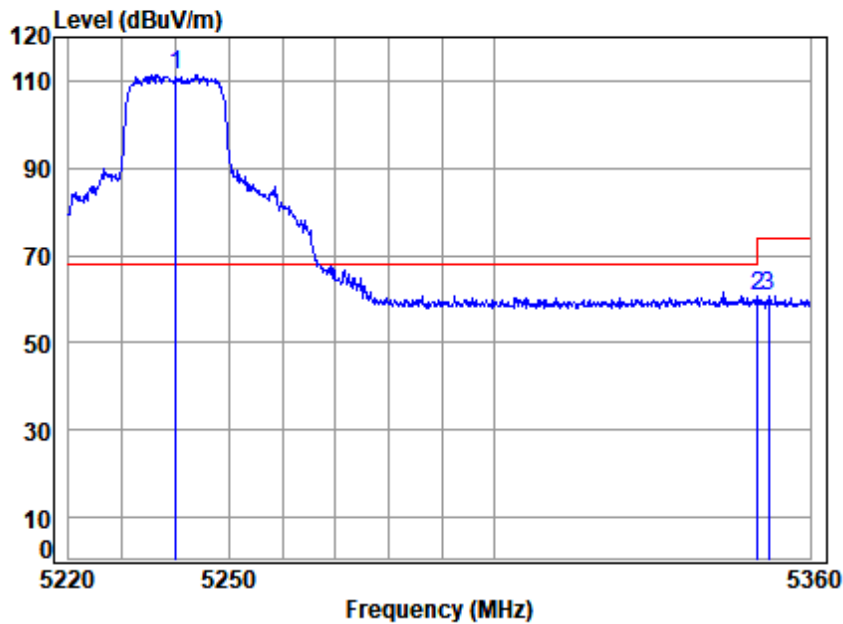
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	82.66	94.75	-----	-----	Average
2	5350.020	10.45	32.80	30.76	33.13	45.62	54.00	-8.38	Average
3 pp	5352.062	10.46	32.80	30.76	33.33	45.83	54.00	-8.17	Average



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Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: High



Condition: 3m VERTICAL

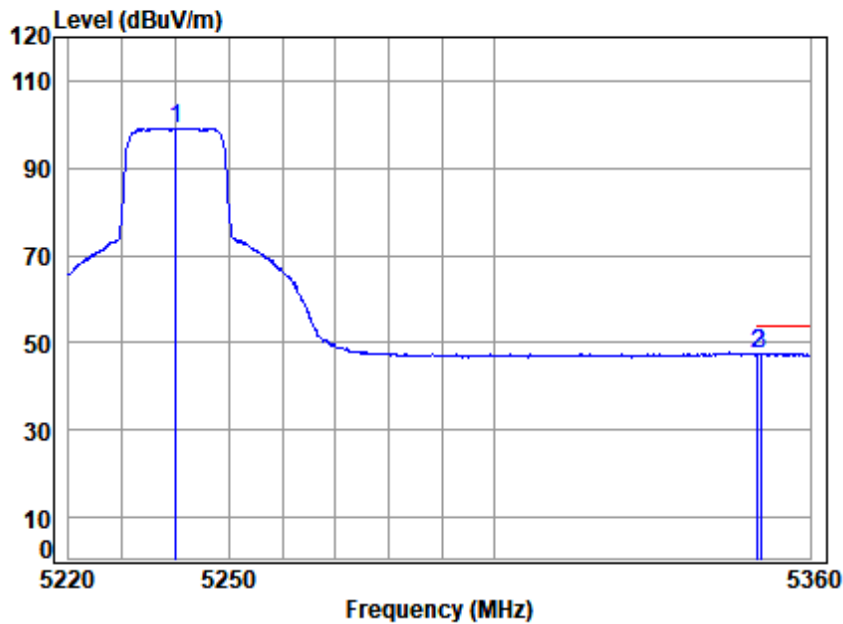
Job No : 00491AT

Mode : 5240 Band edge
: 5.1G 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 pp	5240.000	10.31	32.58	30.80	99.29	111.38	68.20	43.18	Peak
2	5350.020	10.45	32.80	30.76	47.98	60.47	74.00	-13.53	Peak
3	5352.062	10.46	32.80	30.76	47.98	60.48	74.00	-13.52	Peak



Test Mode: 55; Polarity: Vertical; Modulation: OFDM; Channel: High



Condition: 3m VERTICAL

Job No : 00491AT

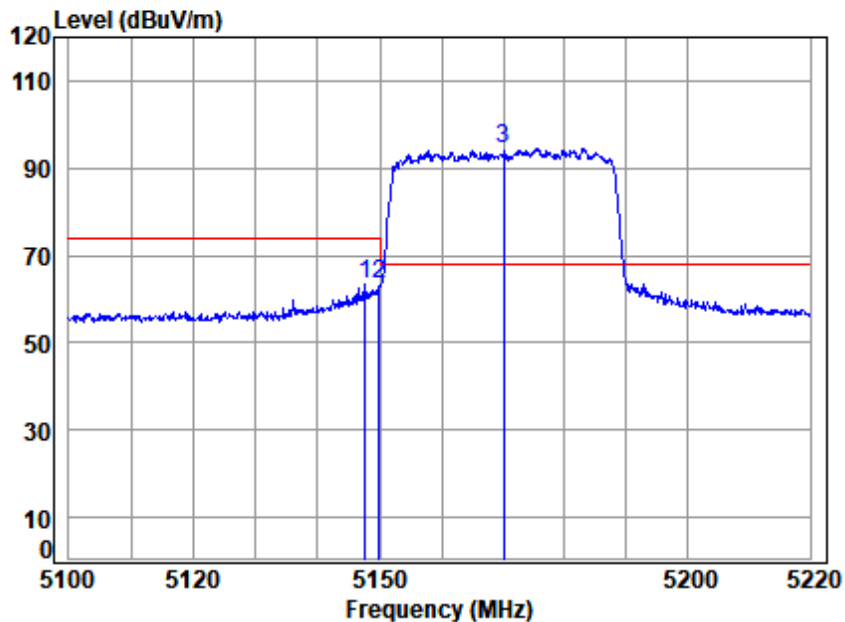
Mode : 5240 Band edge

: 5.1G 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	10.31	32.58	30.80	87.10	99.19	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	35.09	47.58	54.00	-6.42	Average
3	5350.504	10.45	32.80	30.76	35.03	47.52	54.00	-6.48	Average



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

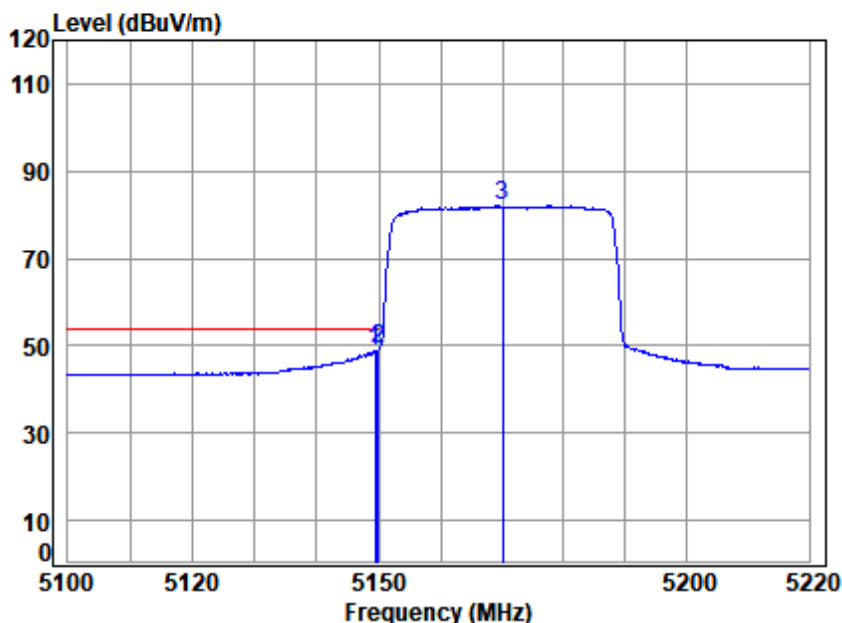
Job No : 00491AT

Mode : 5170 Band edge
: 5.1G 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	5147.666	10.13	32.40	30.84	51.79	63.48	74.00	-10.52	peak
2	5149.980	10.14	32.40	30.84	51.65	63.35	74.00	-10.65	peak
3 pp	5170.000	10.22	32.44	30.83	82.55	94.38	68.20	26.18	peak



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Condition: 3m HORIZONTAL

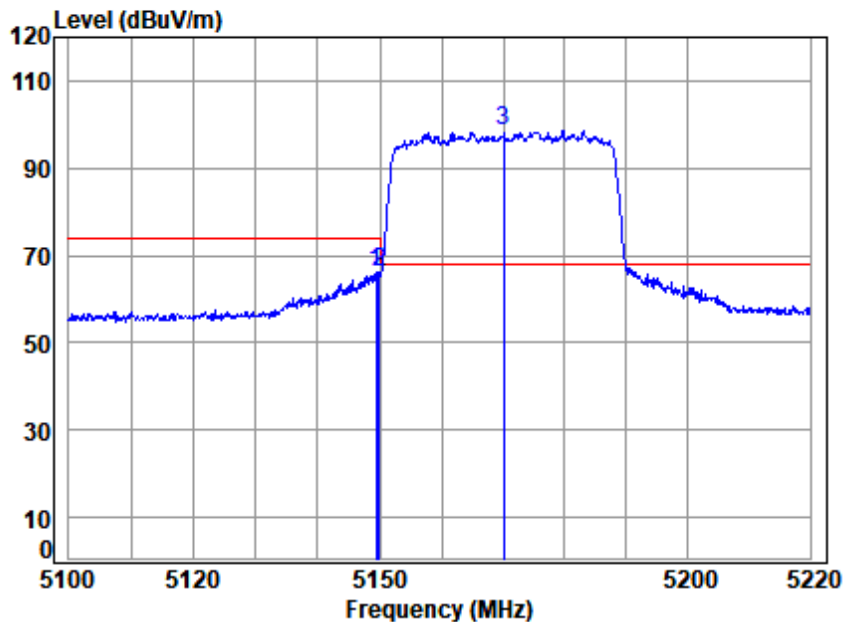
Job No : 00491AT

Mode : 5170 Band edge
: 5.1G 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	5149.461	10.14	32.40	30.84	37.19	48.89	54.00	-5.11 Average
2 pp	5149.980	10.14	32.40	30.84	37.68	49.38	54.00	-4.62 Average
3	5170.000	10.22	32.44	30.83	70.28	82.11	-----	----- Average



Test Mode: 57; Polarity: Vertical; Modulation: OFDM; Channel: Low



Condition: 3m VERTICAL

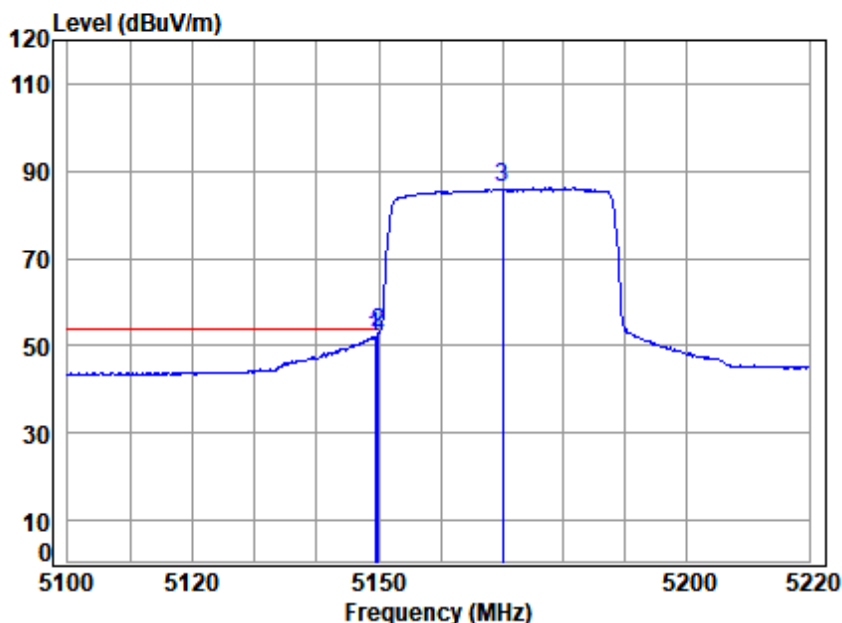
Job No : 00491AT

Mode : 5170 Band edge
: 5.1G 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	5149.461	10.14	32.40	30.84	54.33	66.03	74.00	-7.97	Peak
2	5149.980	10.14	32.40	30.84	54.44	66.14	74.00	-7.86	Peak
3 pp	5170.000	10.22	32.44	30.83	86.92	98.75	68.20	30.55	Peak



Test Mode: 57; Polarity: Vertical; Modulation:OFDM; Channel:Low



Condition: 3m VERTICAL

Job No : 00491AT

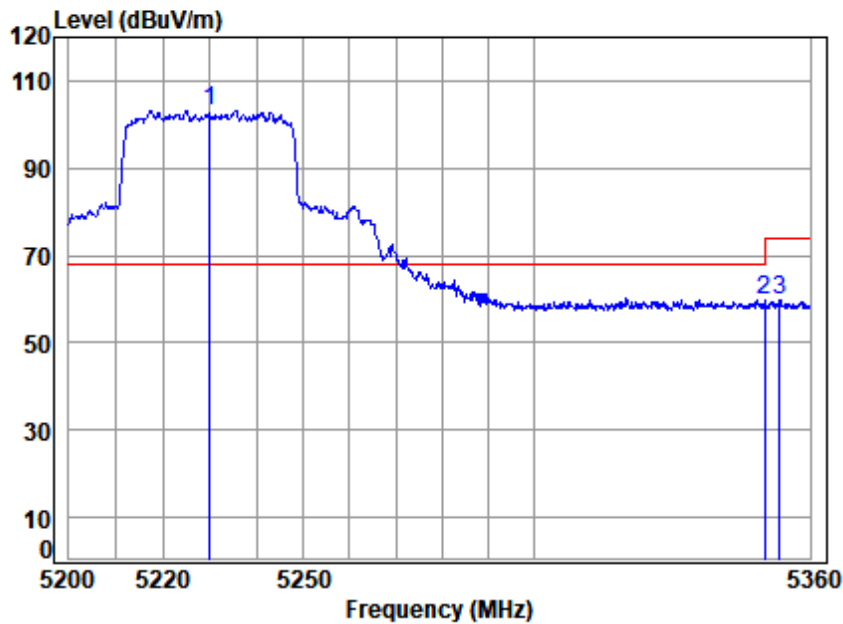
Mode : 5170 Band edge

: 5.1G 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	5149.461	10.14	32.40	30.84	40.47	52.17	54.00	-1.83 Average
2 pp	5149.980	10.14	32.40	30.84	41.28	52.98	54.00	-1.02 Average
3	5170.000	10.22	32.44	30.83	74.29	86.12	-----	----- Average



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

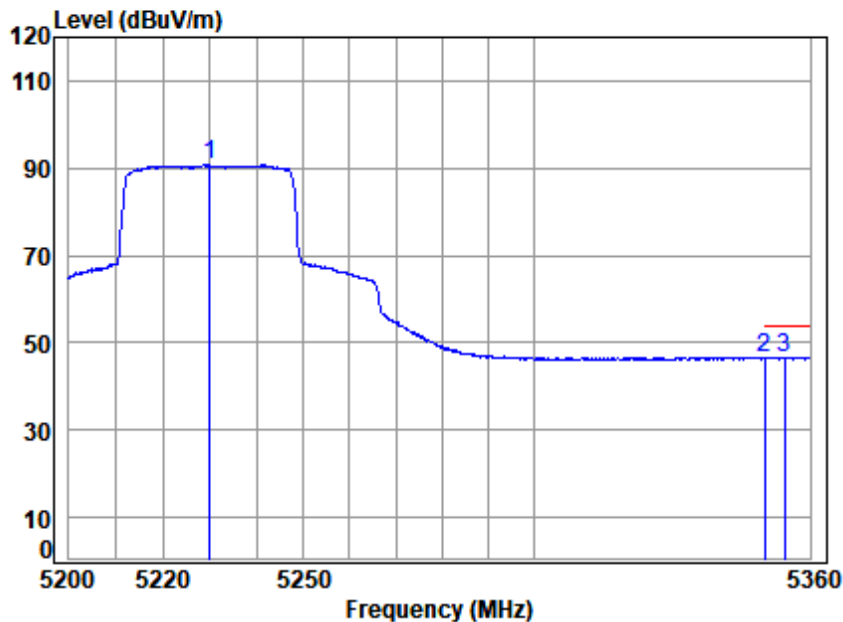
Job No : 00491AT

Mode : 5230 Band edge
: 5.1G 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 pp	5230.000	10.31	32.56	30.81	90.98	103.04	68.20	34.84	peak
2	5350.020	10.45	32.80	30.76	47.40	59.89	74.00	-14.11	peak
3	5353.344	10.46	32.80	30.76	47.22	59.72	74.00	-14.28	peak



Test Mode: 57; Polarity: Horizontal; Modulation: OFDM; Channel: High



Condition: 3m HORIZONTAL

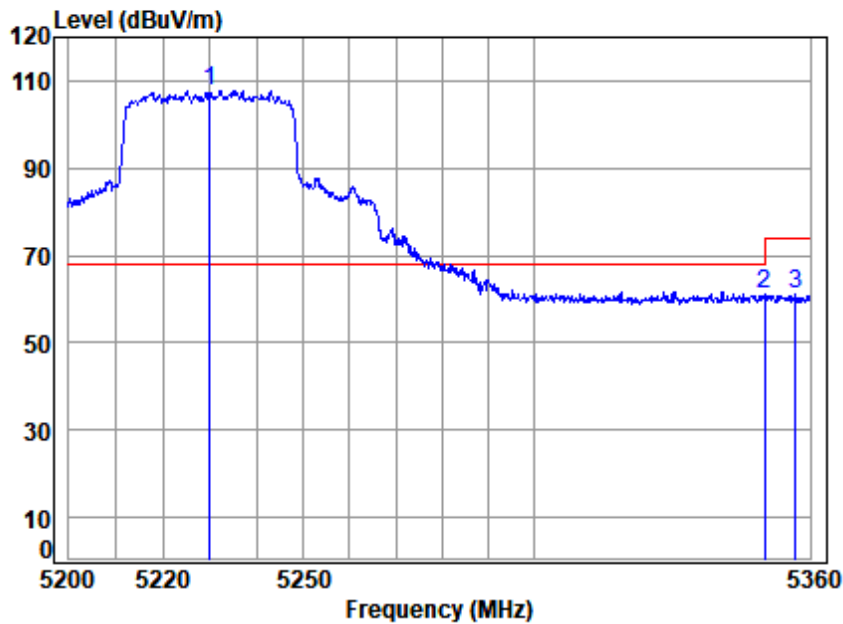
Job No : 00491AT

Mode : 5230 Band edge
: 5.1G 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	10.31	32.56	30.81	78.69	90.75	-----	Average
2	5350.020	10.45	32.80	30.76	34.01	46.50	54.00	-7.50 Average
3 pp	5354.480	10.47	32.80	30.76	34.26	46.77	54.00	-7.23 Average



Test Mode: 57; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

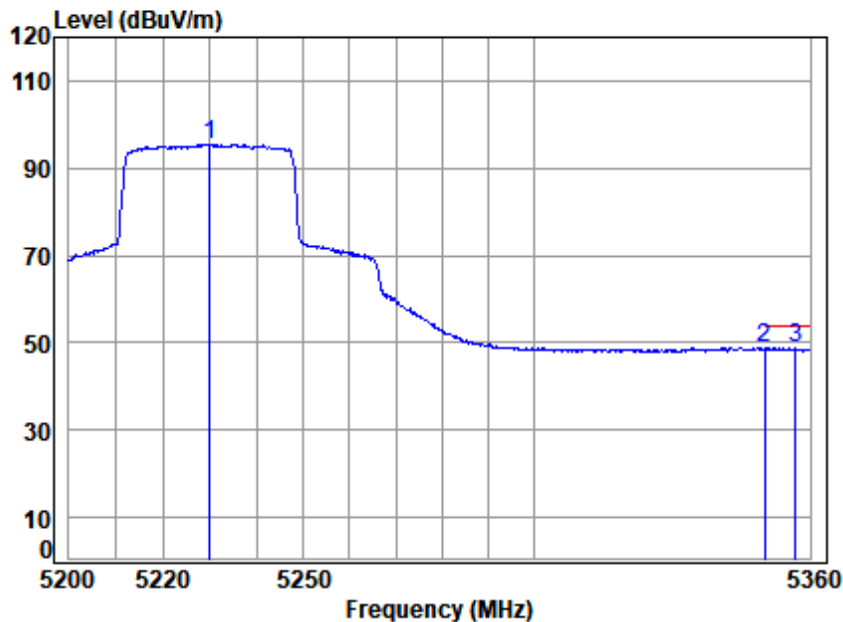
Job No : 00491AT

Mode : 5230 Band edge
: 5.1G 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 pp	5230.000	10.31	32.56	30.81	95.82	107.88	68.20	39.68	Peak
2	5350.020	10.45	32.80	30.76	48.47	60.96	74.00	-13.04	Peak
3	5356.915	10.47	32.80	30.76	48.56	61.07	74.00	-12.93	Peak



Test Mode: 57; Polarity: Vertical; Modulation:OFDM; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 5230 Band edge
: 5.1G 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	10.31	32.56	30.81	83.48	95.54	-----	-----	Average
2	5350.020	10.45	32.80	30.76	36.27	48.76	54.00	-5.24	Average
3 pp	5356.915	10.47	32.80	30.76	36.29	48.80	54.00	-5.20	Average



7.6 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

7.6.1 E.U.T. Operation

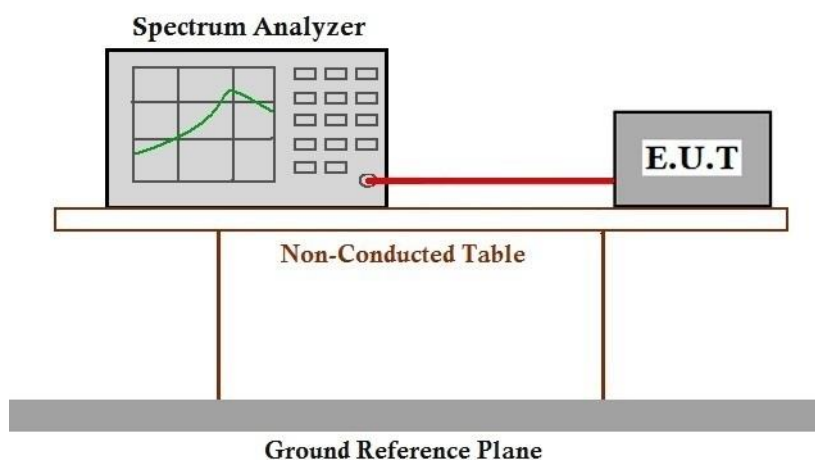
Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data



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SZEMC-TRF-01 Rev. A/1

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Please Refer to Appendix for Details



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7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

7.7.1 E.U.T. Operation

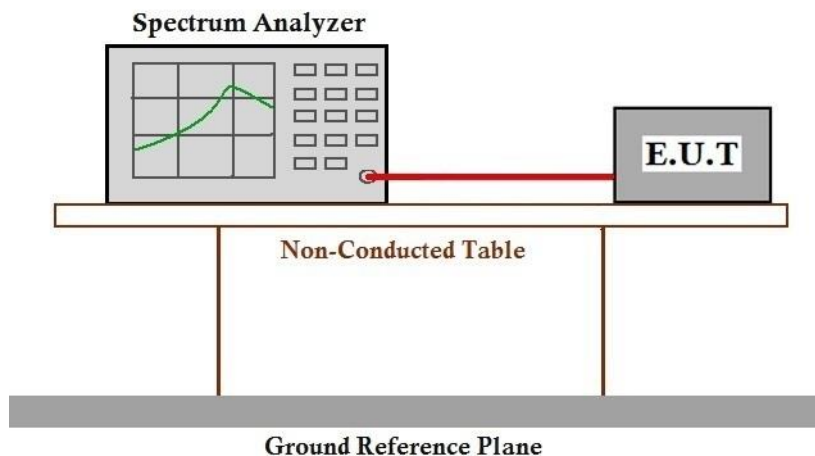
Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data



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7.8 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

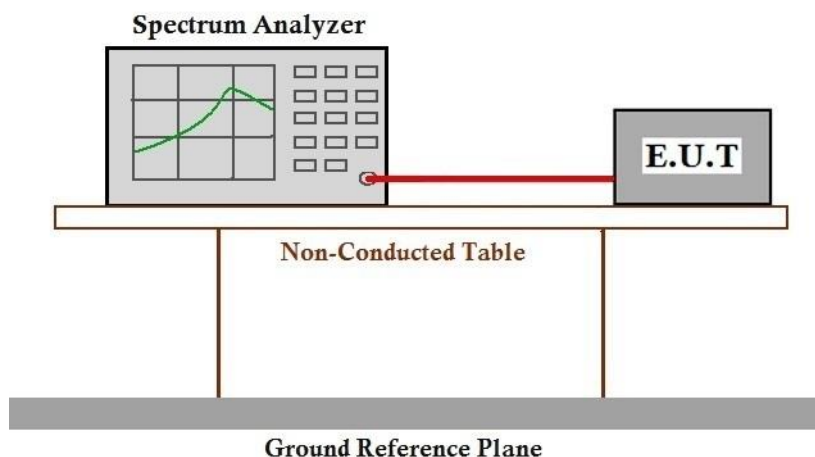
Humidity: 40.4 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_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



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: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

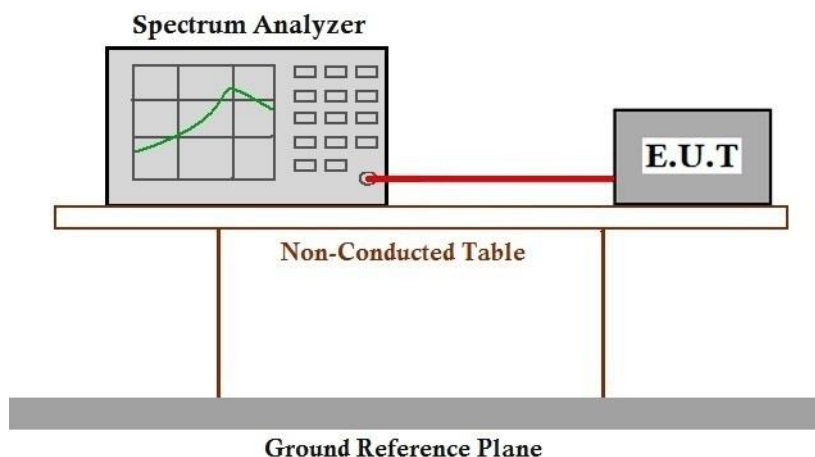
Humidity: 40.4 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

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7.10 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 40.4 % RH

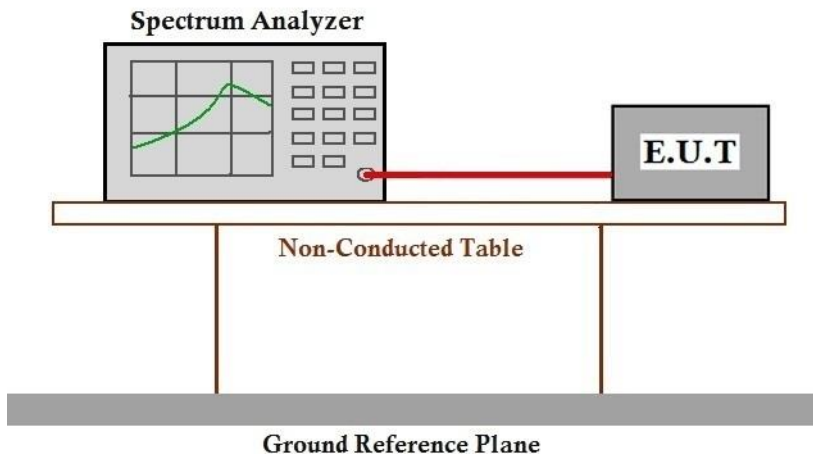
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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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

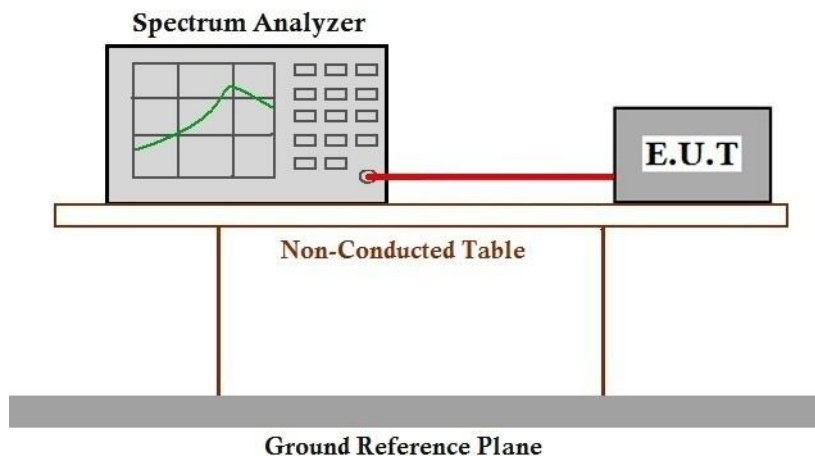
Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	37	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	39	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	41	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data



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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2502000491AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2502000491AT

10 Appendix

Note: 5G SDR support SISO and MIMO mode, MIMO mode support ANT0&1, ANT0&3, ANT1&2, ANT2&3, the conducted output power is the same between SISO mode and MIMO mode, so only MIMO mode was selected to test, ANT0&1 and ANT2&3 are the worst case for MIMO mode.

5.8G SDR ANT2&3 Test data

1. Duty Cycle

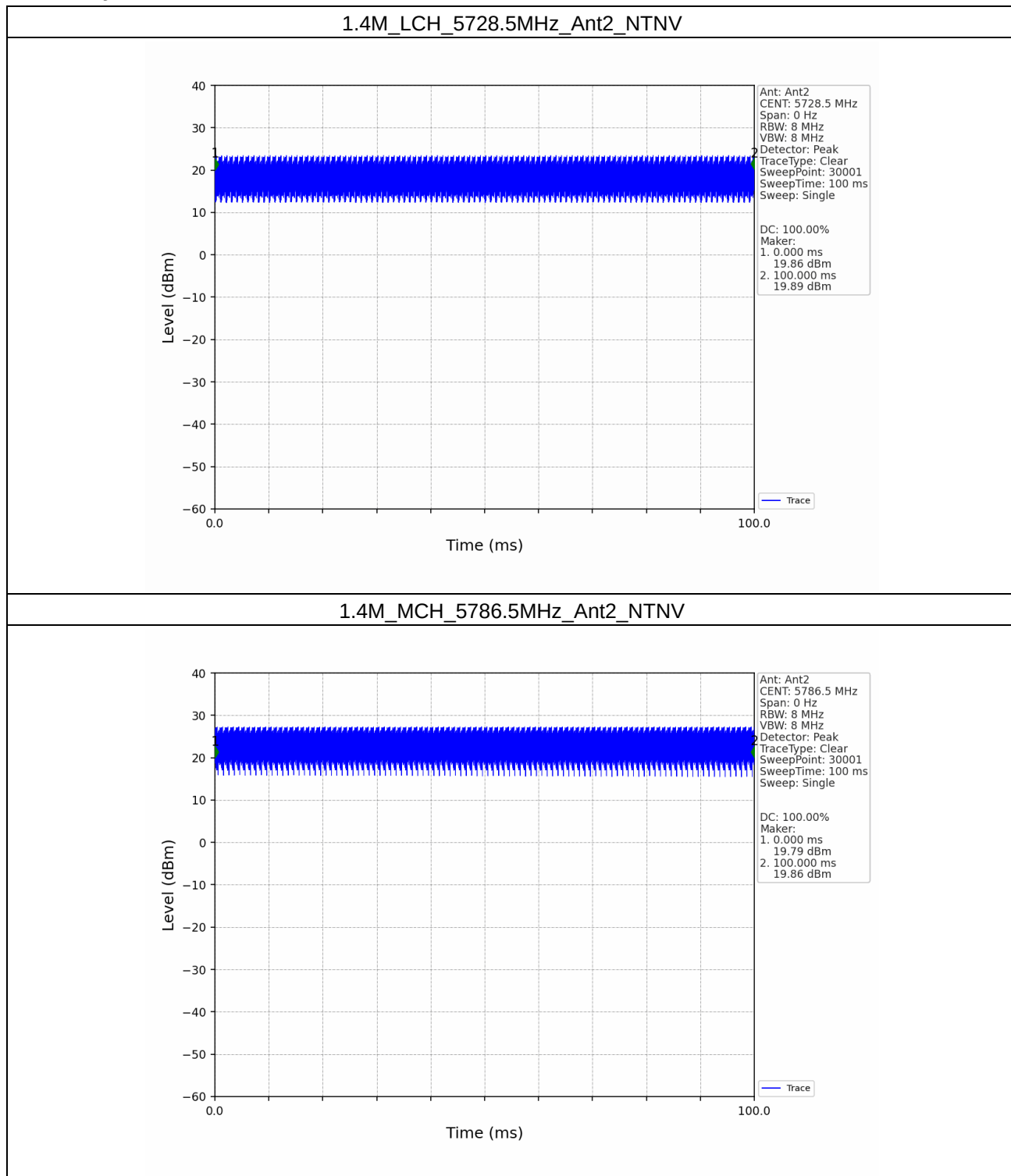
1.1 Test Result

1.1.1 Ant2

Ant2							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	5728.5	100.000	100.000	100.00	0.00	0.00
		5786.5	100.000	100.000	100.00	0.00	0.00
		5846.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	5727.5	100.000	100.000	100.00	0.00	0.00
		5784.5	100.000	100.000	100.00	0.00	0.00
		5847.2	100.000	100.000	100.00	0.00	0.00
5M	MIMO	5732.5	100.000	100.000	100.00	0.00	0.00
		5782.5	100.000	100.000	100.00	0.00	0.00
		5842.5	100.000	100.000	100.00	0.00	0.00
10M	MIMO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5735.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5839.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5745.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5829.5	100.000	100.000	100.00	0.00	0.00
60M	MIMO	5755.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5819.5	100.000	100.000	100.00	0.00	0.00
80M	MIMO	5765.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5809.5	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

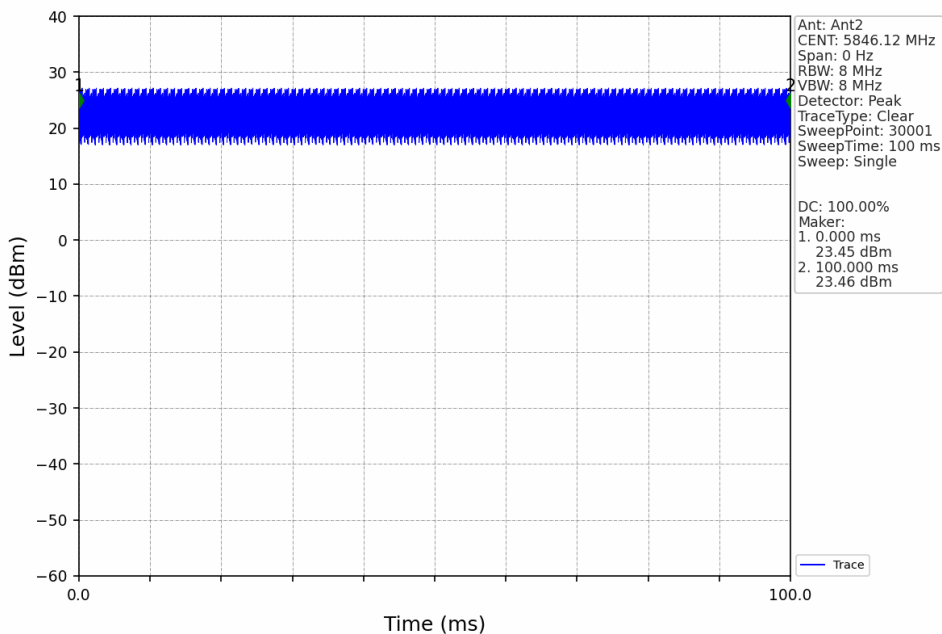
1.2.1 Ant2



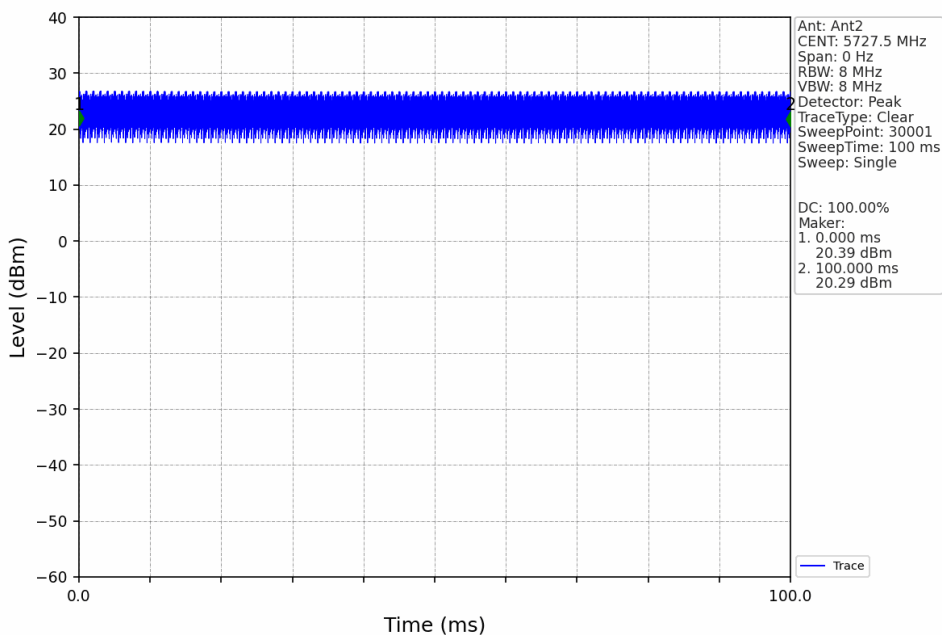
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1.4M_HCH_5846.12MHz_Ant2_NTNV



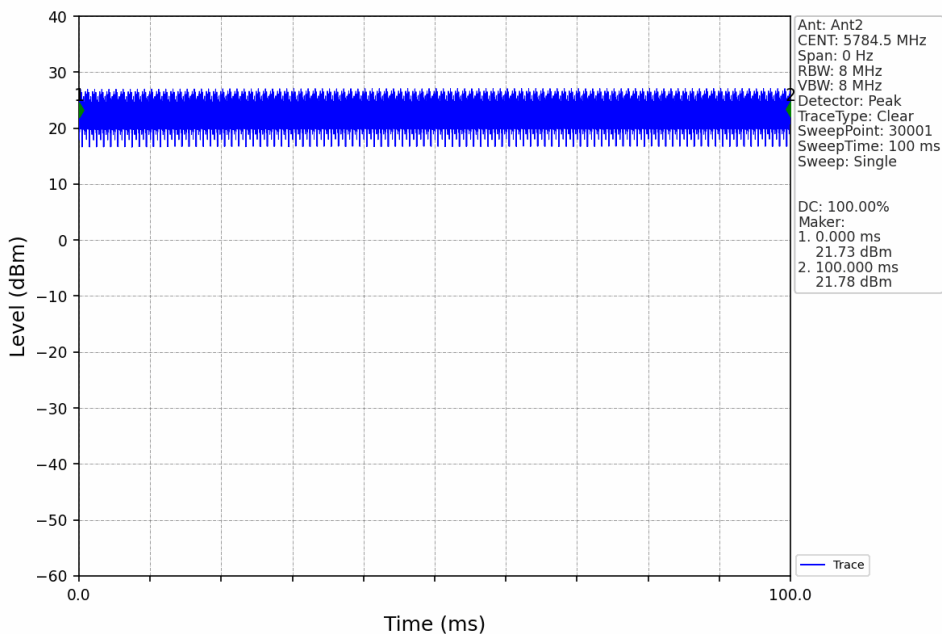
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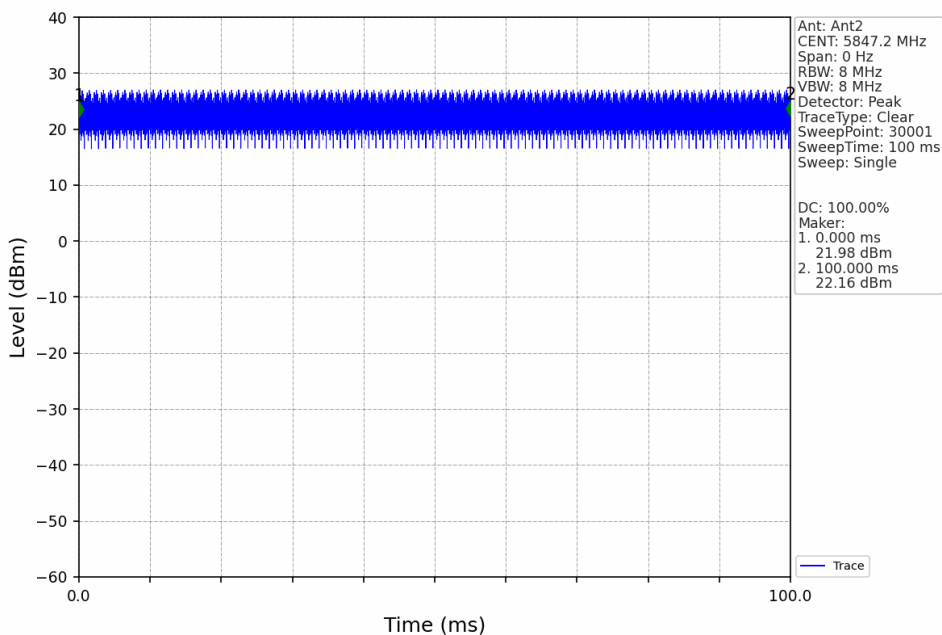
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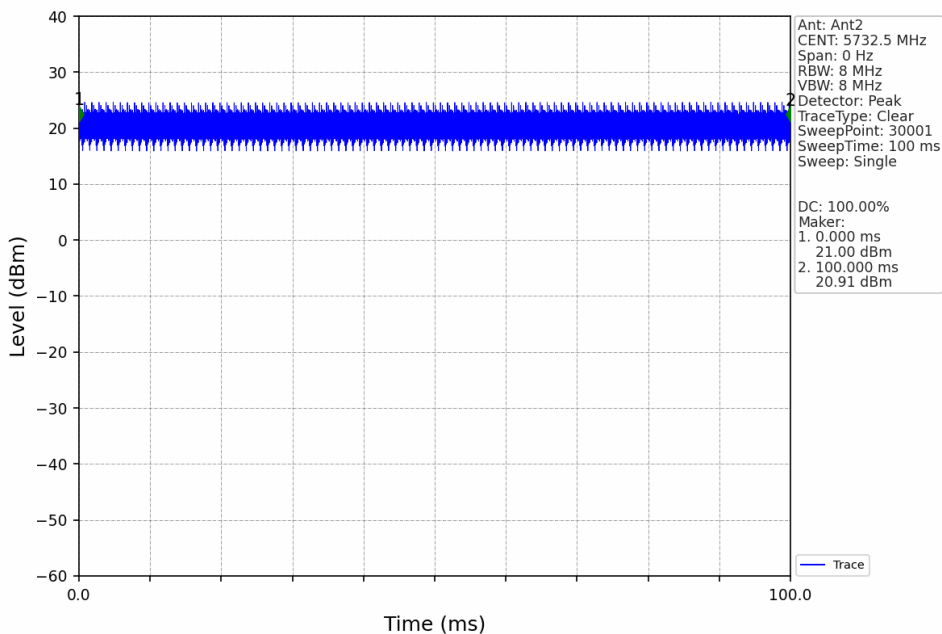
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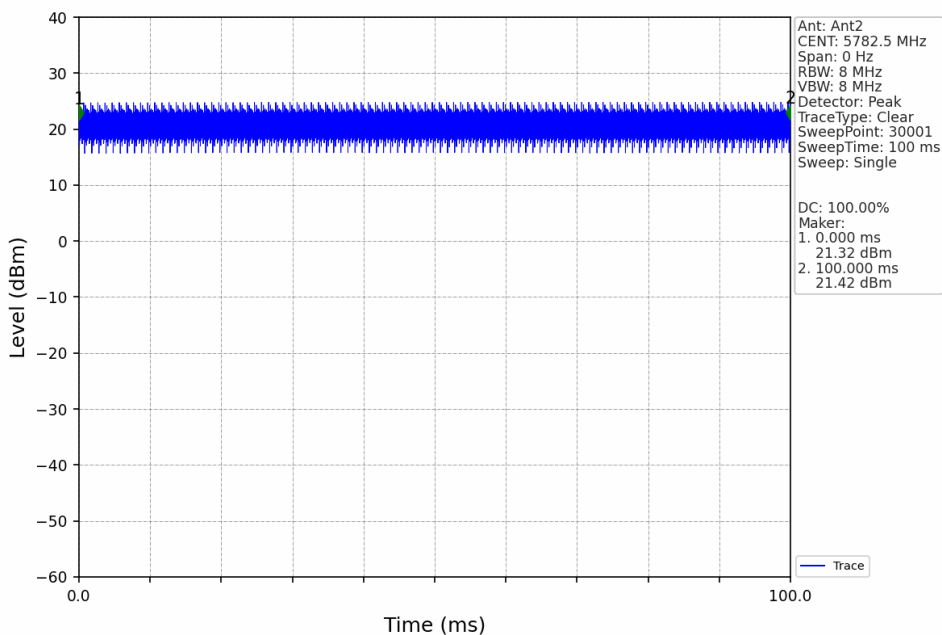
3M_HCH_5847.2MHz_Ant2_NTNV



5M_LCH_5732.5MHz_Ant2_NTNV



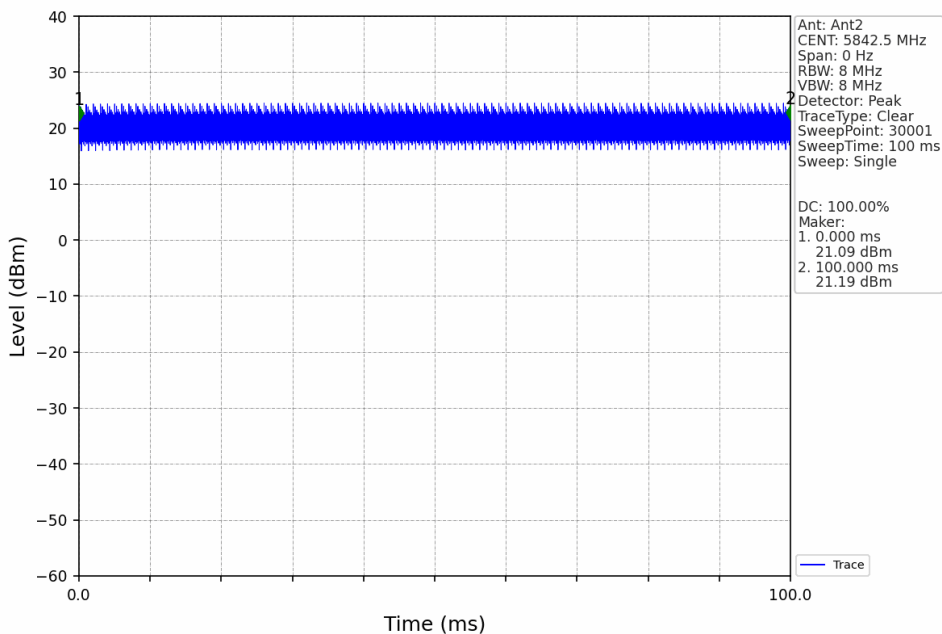
5M_MCH_5782.5MHz_Ant2_NTNV



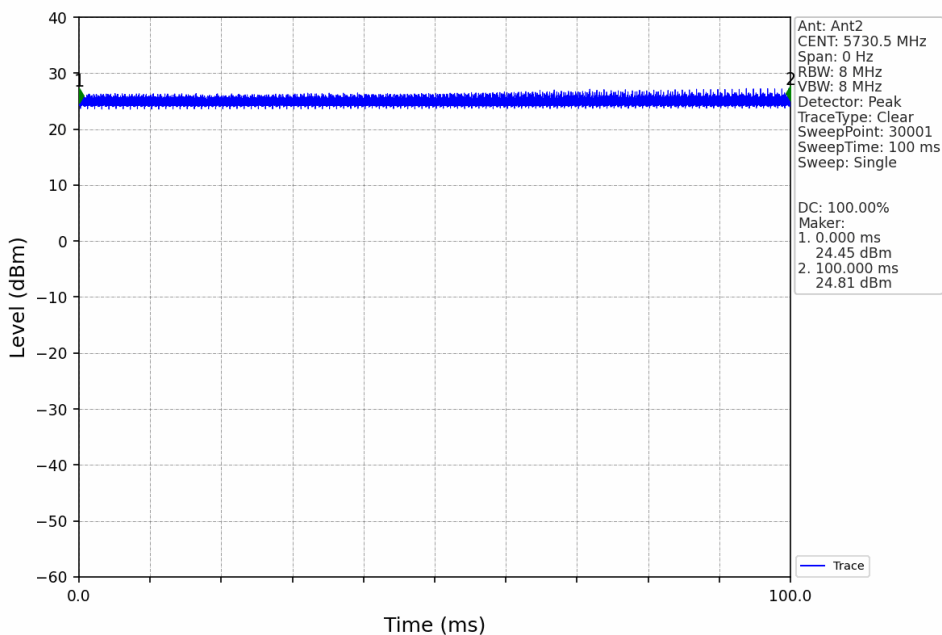
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5M_HCH_5842.5MHz_Ant2_NTNV



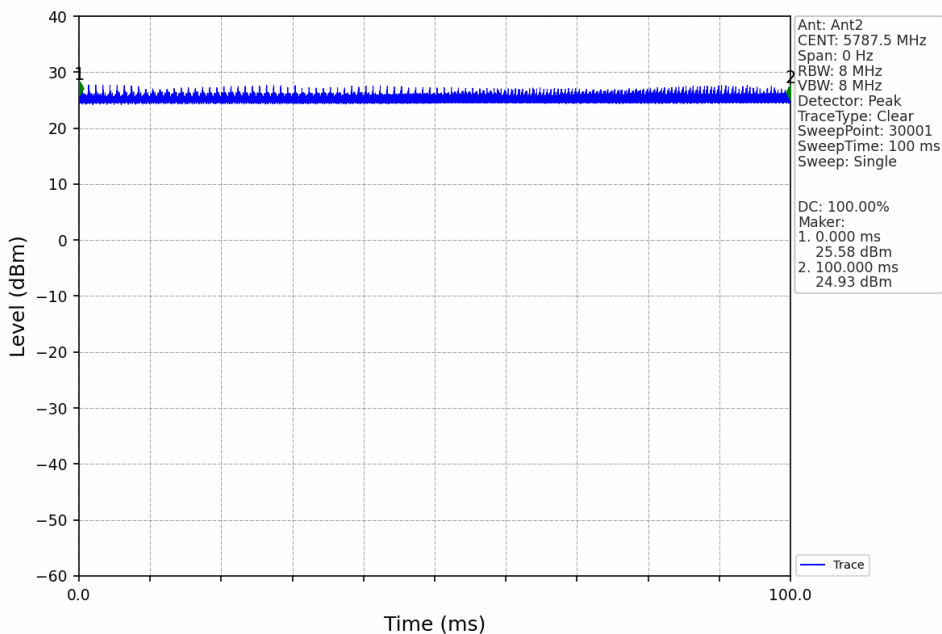
10M_LCH_5730.5MHz_Ant2_NTNV



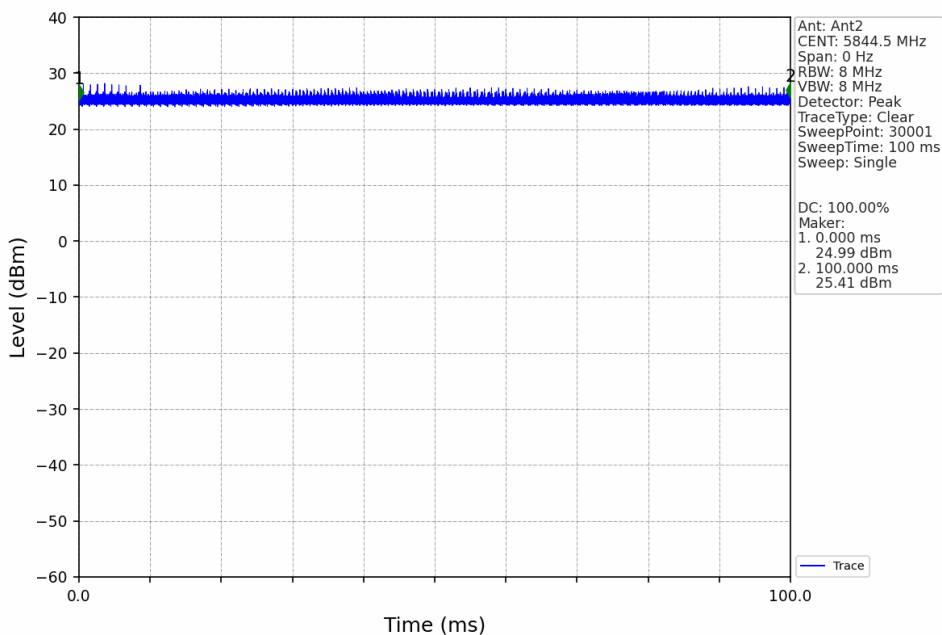
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10M_MCH_5787.5MHz_Ant2_NTNV



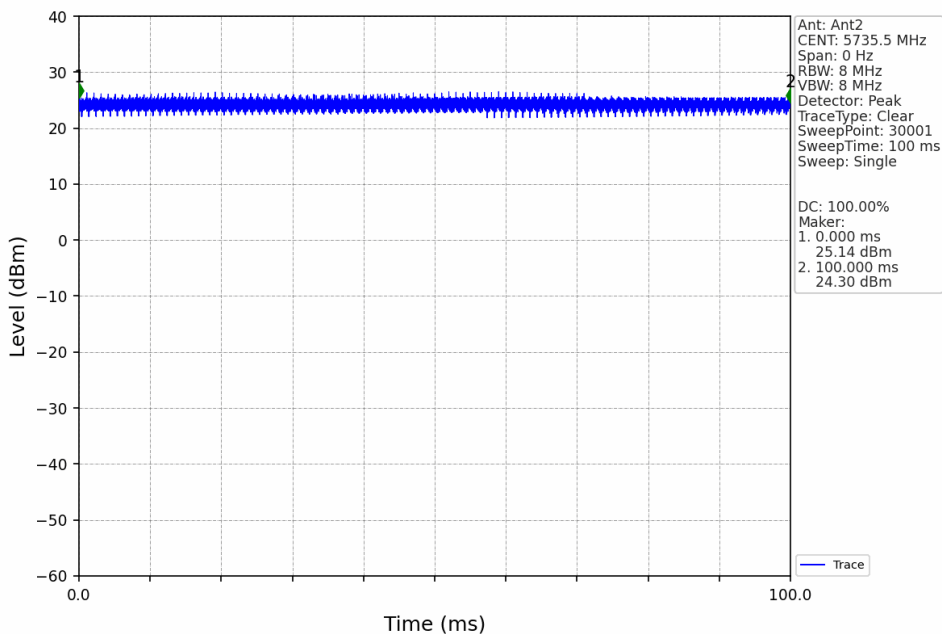
10M_HCH_5844.5MHz_Ant2_NTNV



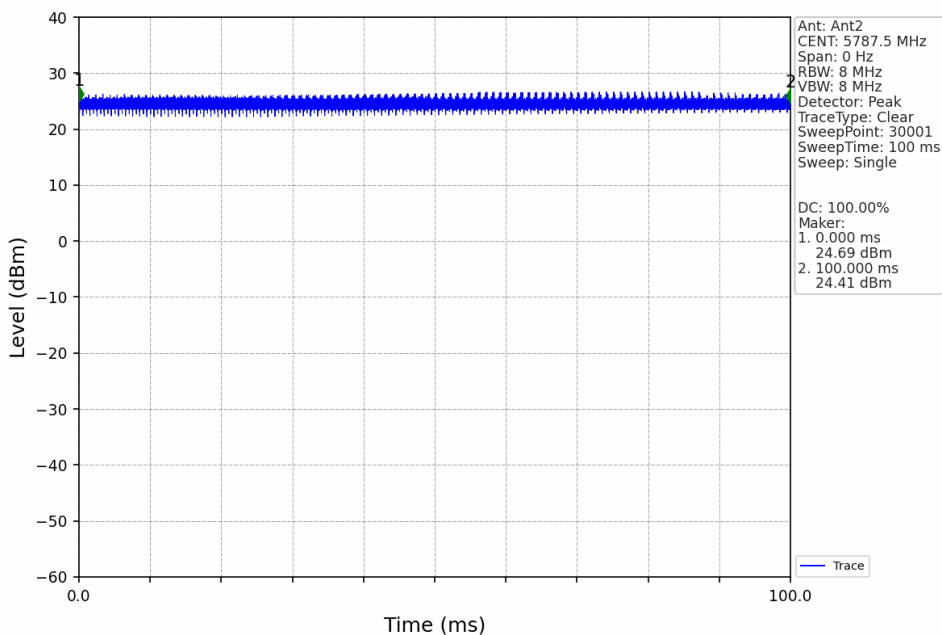
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20M_LCH_5735.5MHz_Ant2_NTNV



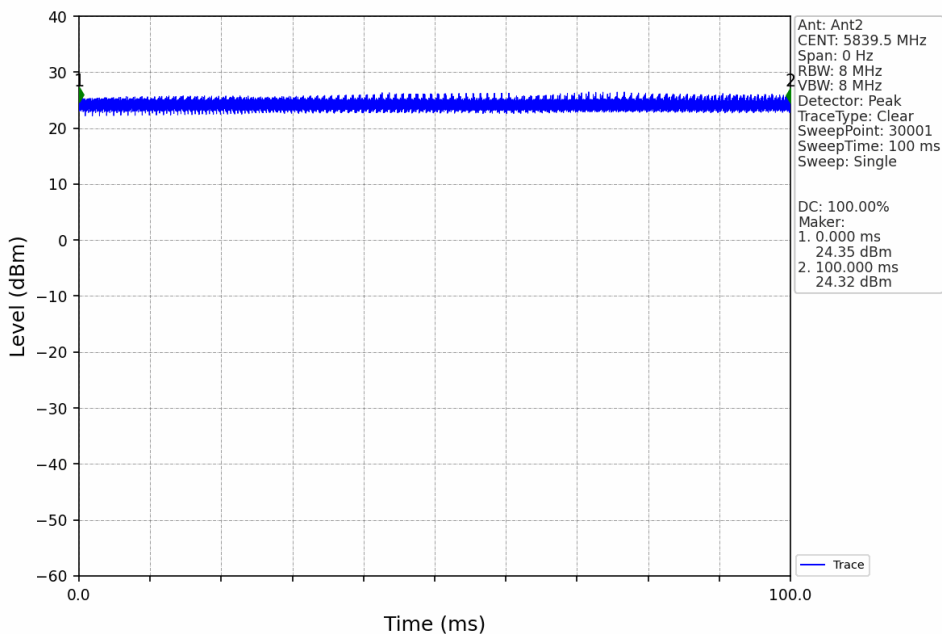
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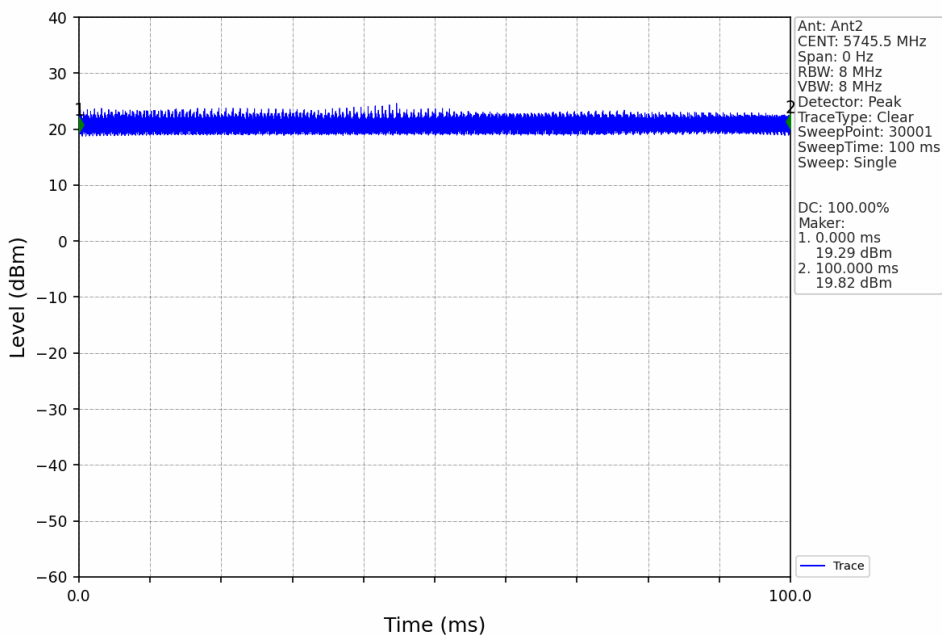
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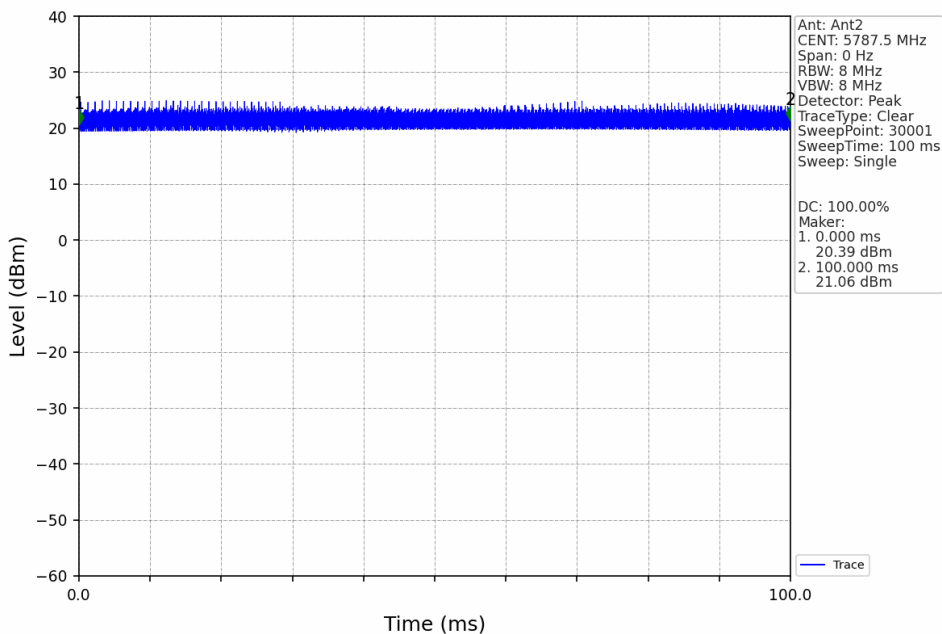
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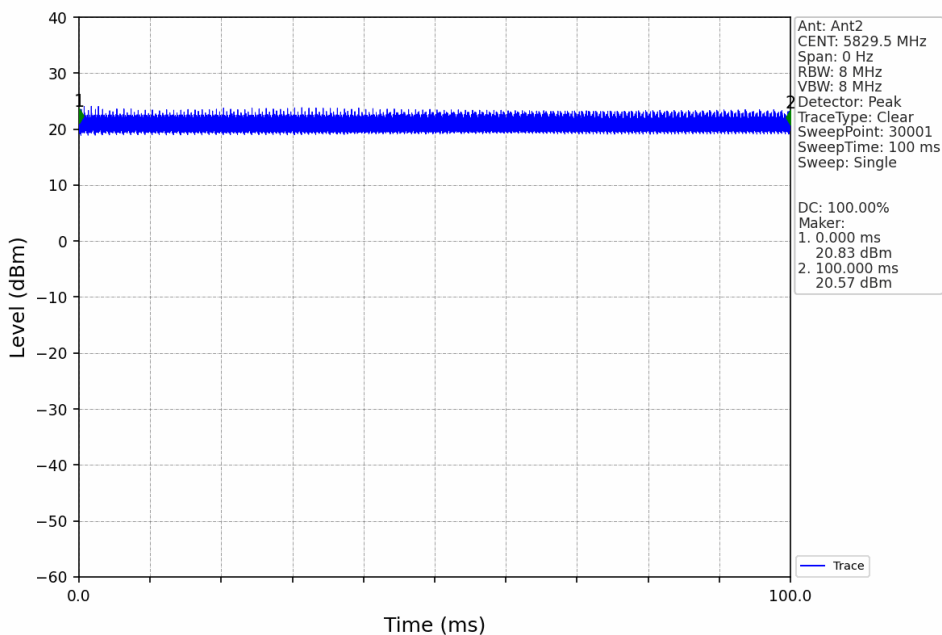
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40M_MCH_5787.5MHz_Ant2_NTNV



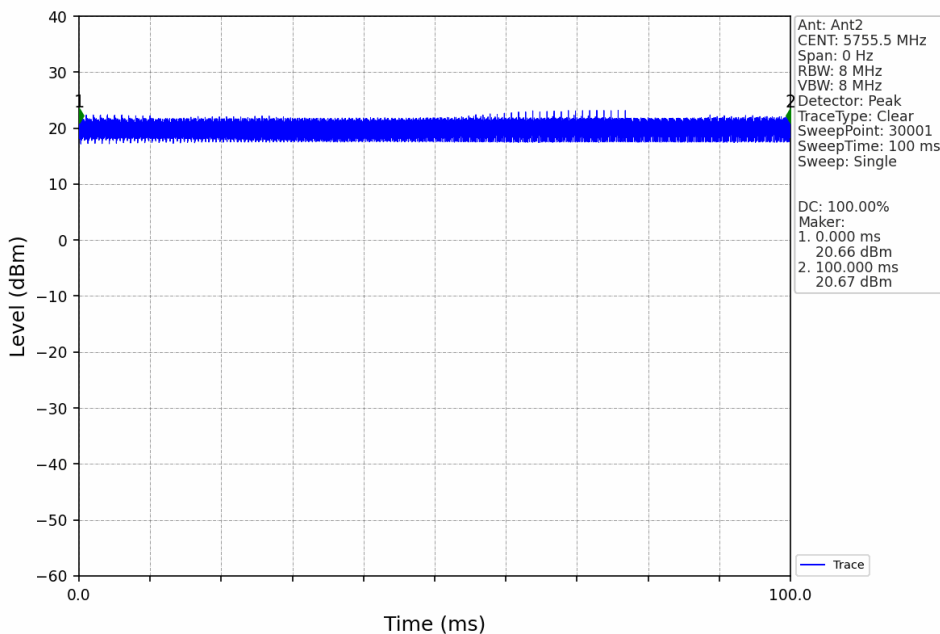
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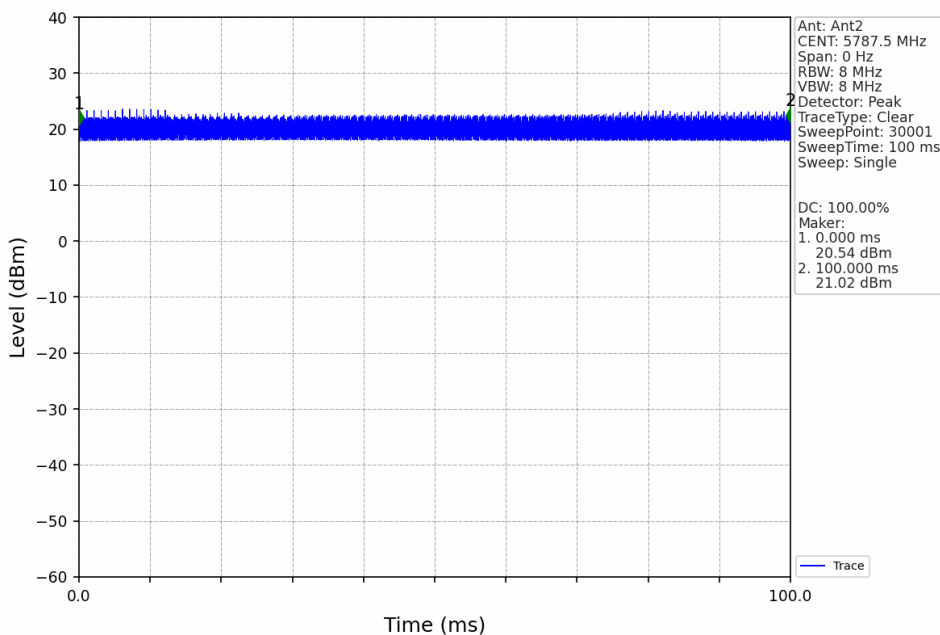
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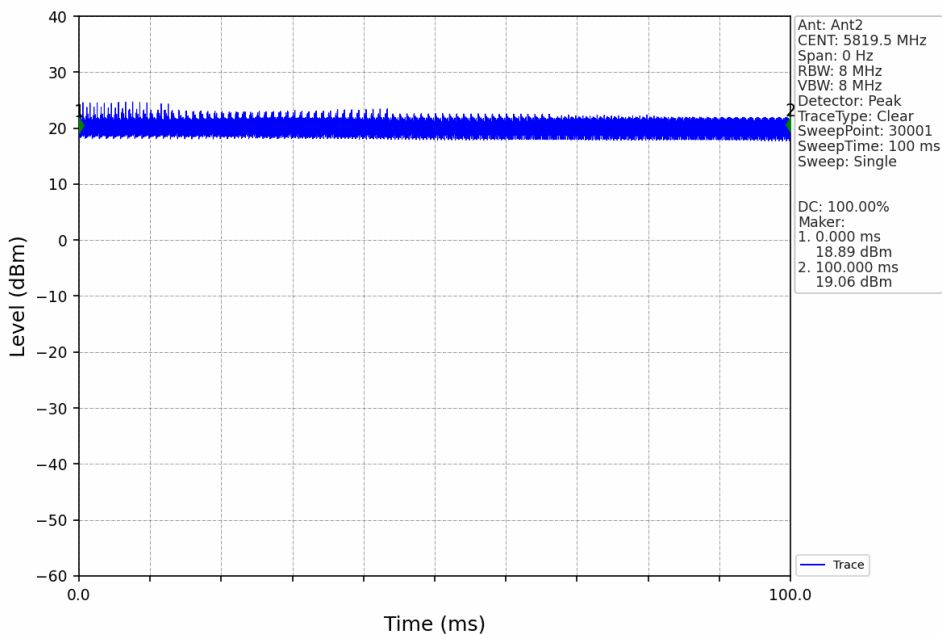
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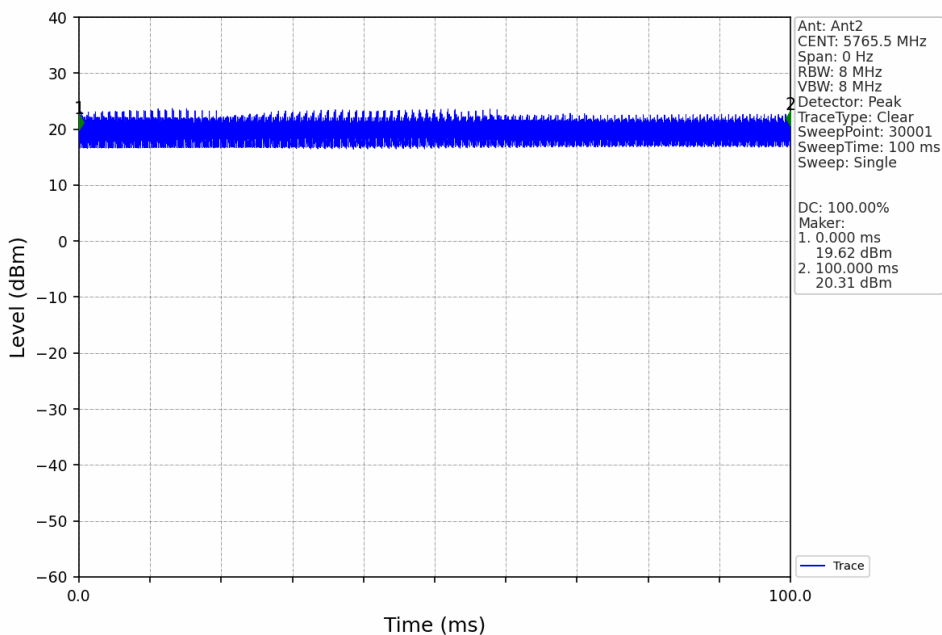
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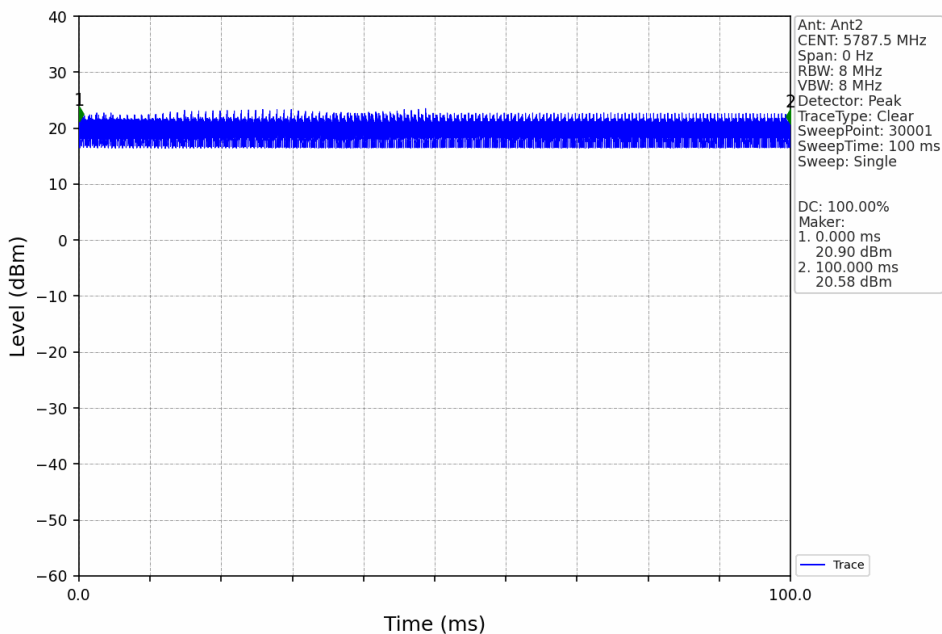
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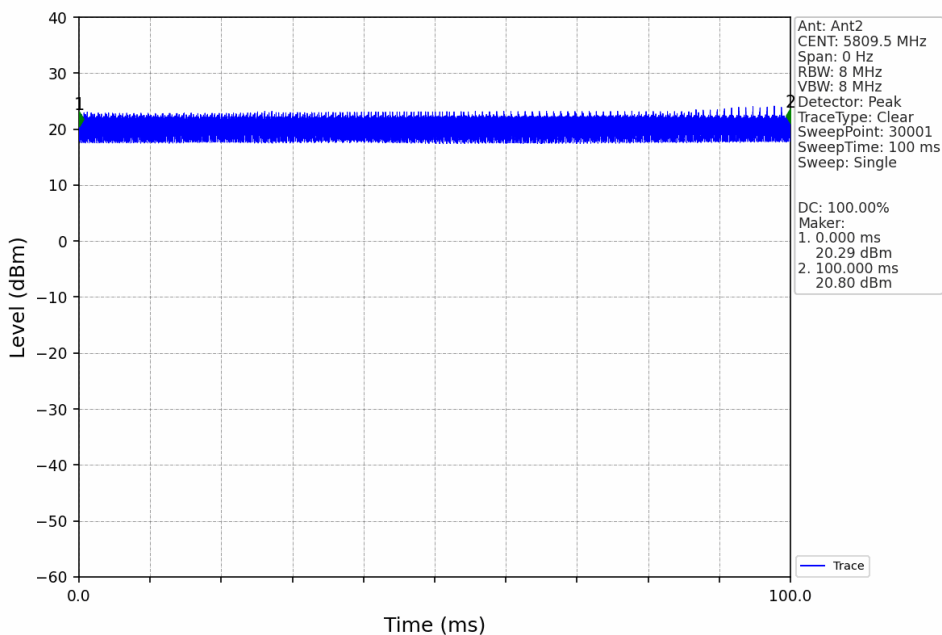
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80M_MCH_5787.5MHz_Ant2_NTNV



80M_HCH_5809.5MHz_Ant2_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	2	1.180	/	Pass
		5786.5	2	1.183	/	Pass
		5846.12	2	1.181	/	Pass
3M	MIMO	5727.5	2	2.300	/	Pass
		5784.5	2	2.277	/	Pass
		5847.2	2	2.290	/	Pass
5M	MIMO	5732.5	2	4.408	/	Pass
		5782.5	2	4.404	/	Pass
		5842.5	2	4.401	/	Pass
10M	MIMO	5730.5	2	18.495	/	Pass
		5787.5	2	17.190	/	Pass
		5844.5	2	17.307	/	Pass
20M	MIMO	5735.5	2	35.897	/	Pass
		5787.5	2	34.177	/	Pass
		5839.5	2	34.912	/	Pass
40M	MIMO	5745.5	2	69.175	/	Pass
		5787.5	2	67.397	/	Pass
		5829.5	2	69.169	/	Pass
60M	MIMO	5755.5	2	95.877	/	Pass
		5787.5	2	99.306	/	Pass
		5819.5	2	99.827	/	Pass
80M	MIMO	5765.5	2	138.773	/	Pass
		5787.5	2	136.168	/	Pass
		5809.5	2	140.305	/	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049106

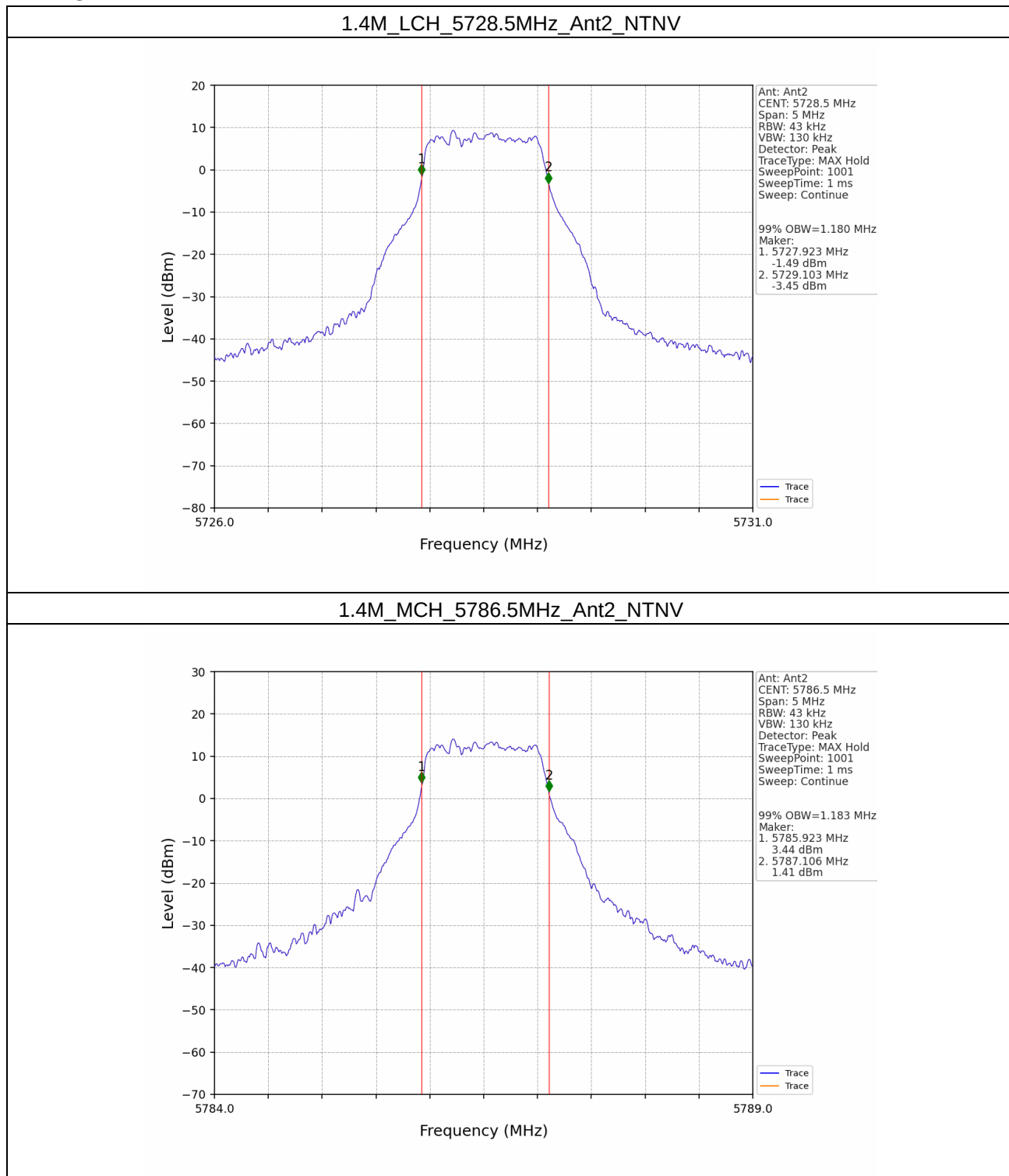
Page: 139 of 376

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	2	1.112	>=0.5	Pass
		5786.5	2	1.117	>=0.5	Pass
		5846.12	2	1.115	>=0.5	Pass
3M	MIMO	5727.5	2	2.197	>=0.5	Pass
		5784.5	2	2.204	>=0.5	Pass
		5847.2	2	2.192	>=0.5	Pass
5M	MIMO	5732.5	2	4.352	>=0.5	Pass
		5782.5	2	4.362	>=0.5	Pass
		5842.5	2	4.362	>=0.5	Pass
10M	MIMO	5730.5	2	9.039	>=0.5	Pass
		5787.5	2	9.051	>=0.5	Pass
		5844.5	2	9.051	>=0.5	Pass
20M	MIMO	5735.5	2	18.026	>=0.5	Pass
		5787.5	2	18.020	>=0.5	Pass
		5839.5	2	18.017	>=0.5	Pass
40M	MIMO	5745.5	2	36.020	>=0.5	Pass
		5787.5	2	35.976	>=0.5	Pass
		5829.5	2	35.980	>=0.5	Pass
60M	MIMO	5755.5	2	53.255	>=0.5	Pass
		5787.5	2	53.596	>=0.5	Pass
		5819.5	2	53.230	>=0.5	Pass
80M	MIMO	5765.5	2	70.900	>=0.5	Pass
		5787.5	2	70.842	>=0.5	Pass
		5809.5	2	70.337	>=0.5	Pass

2.2 Test Graph

2.2.1 OBW



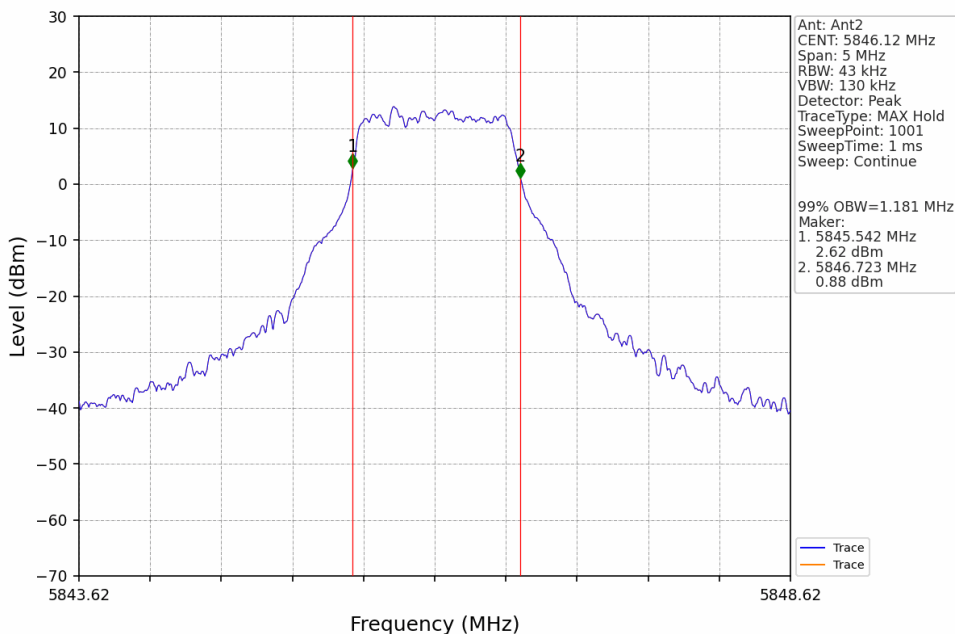
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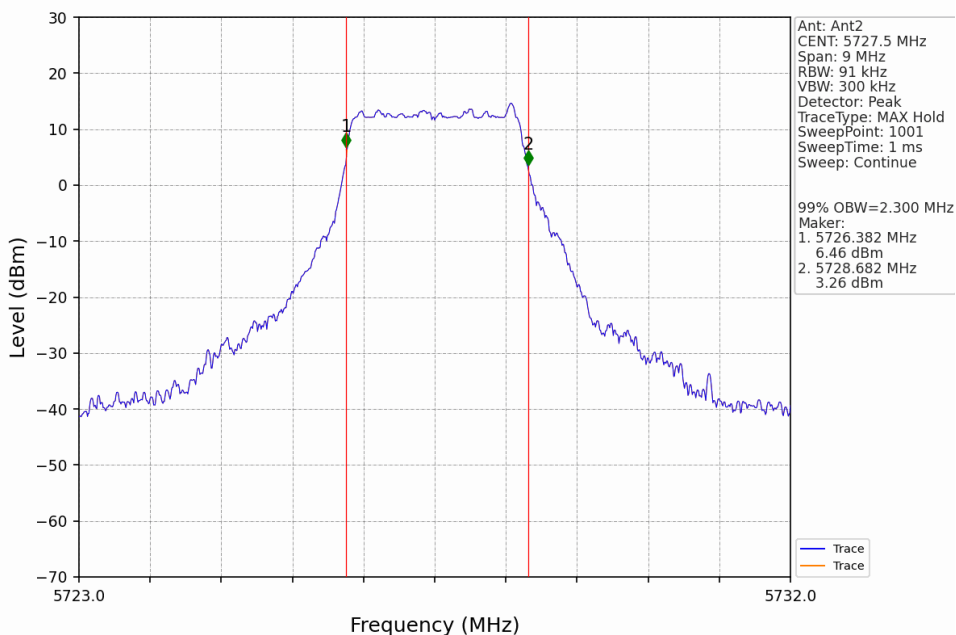
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1.4M_HCH_5846.12MHz_Ant2_NTNV



3M_LCH_5727.5MHz_Ant2_NTNV



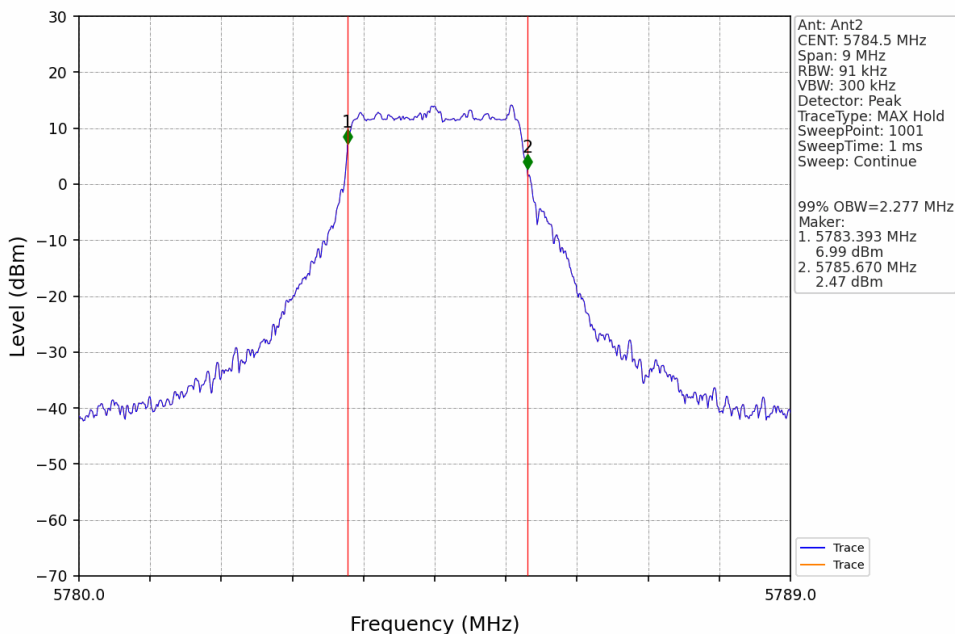
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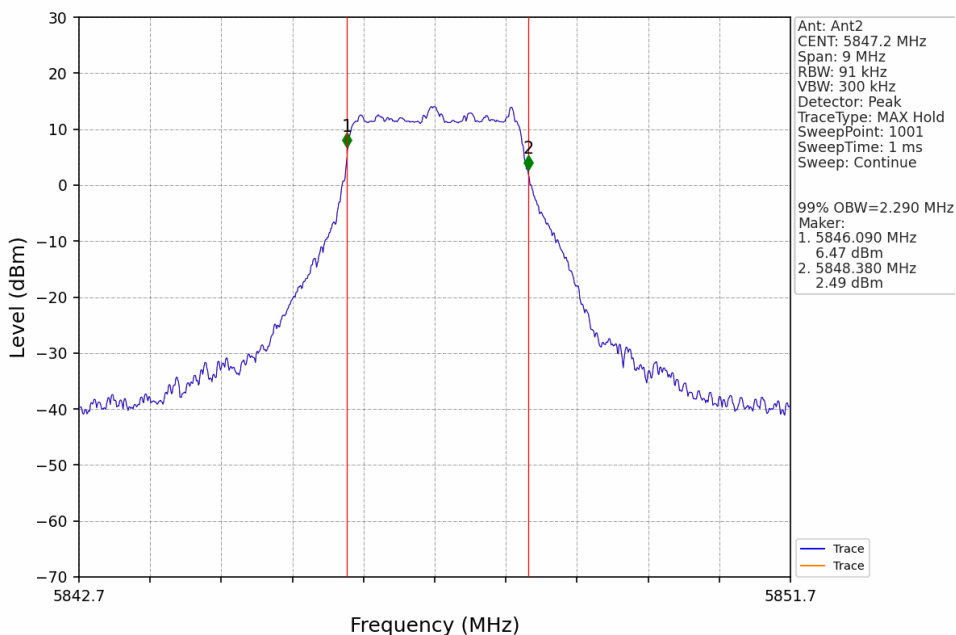
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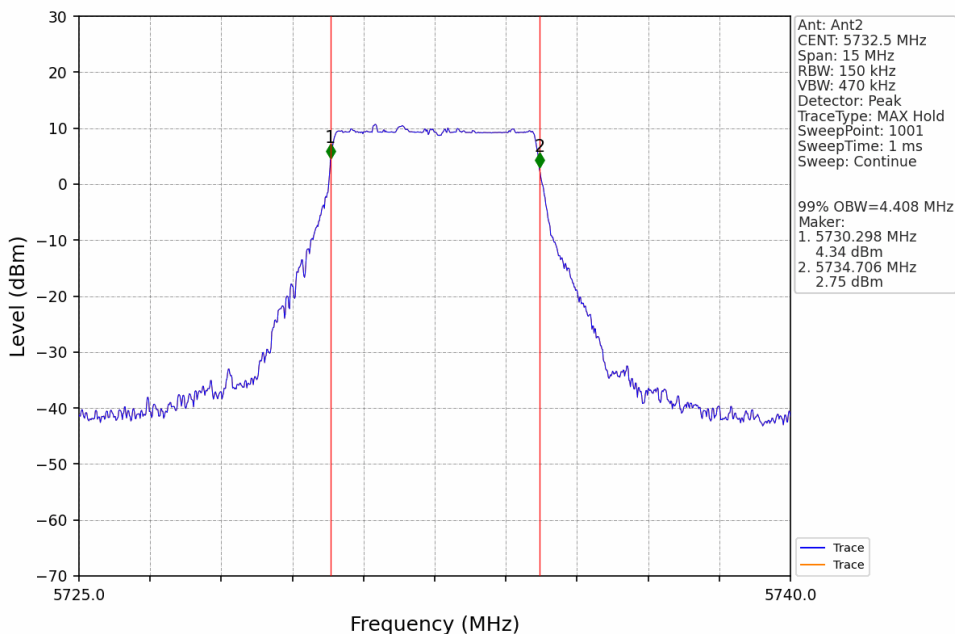
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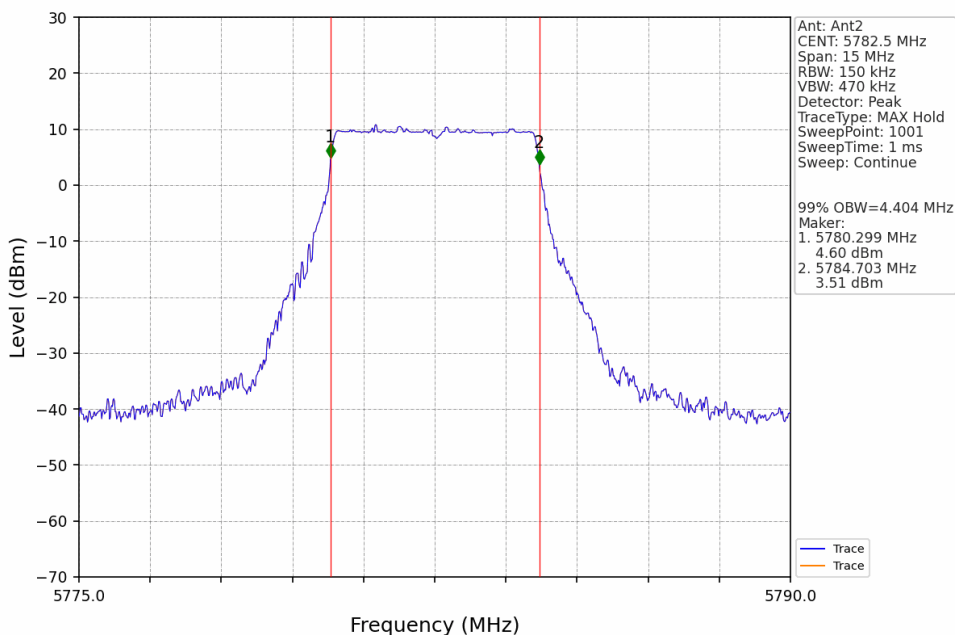
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5M_MCH_5782.5MHz_Ant2_NTNV



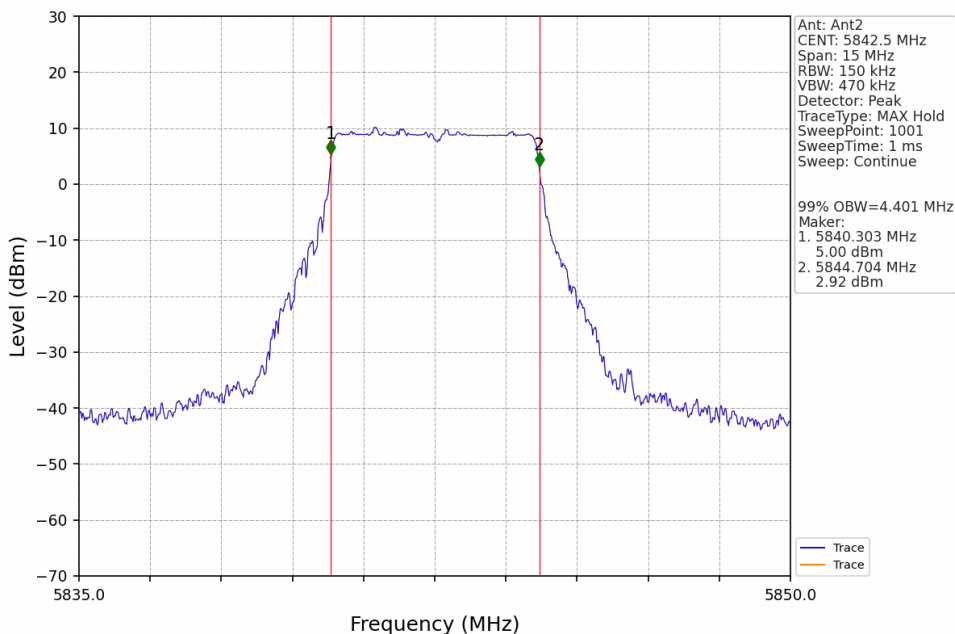
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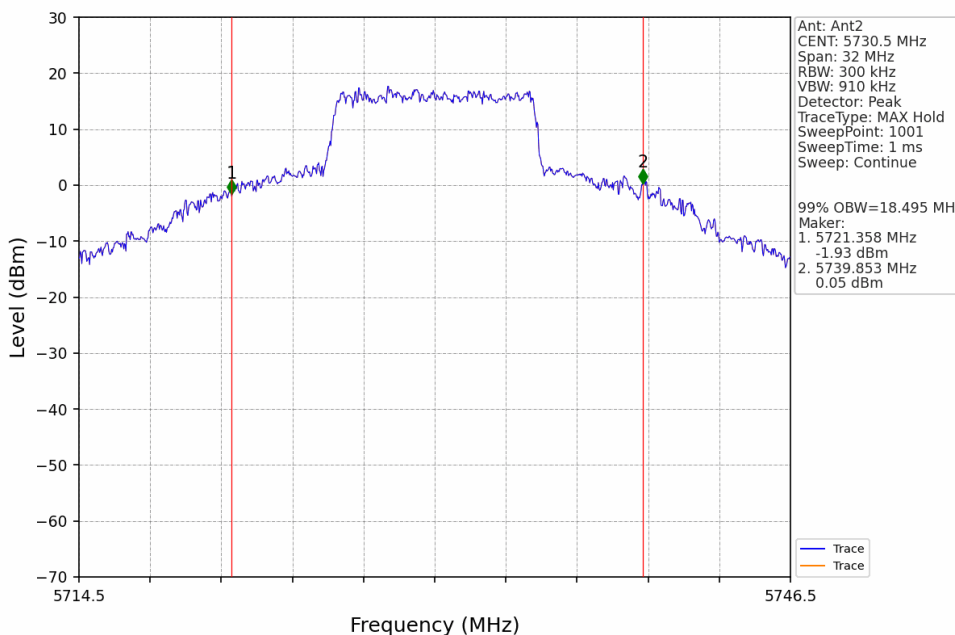
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5M_HCH_5842.5MHz_Ant2_NTNV



10M_LCH_5730.5MHz_Ant2_NTNV



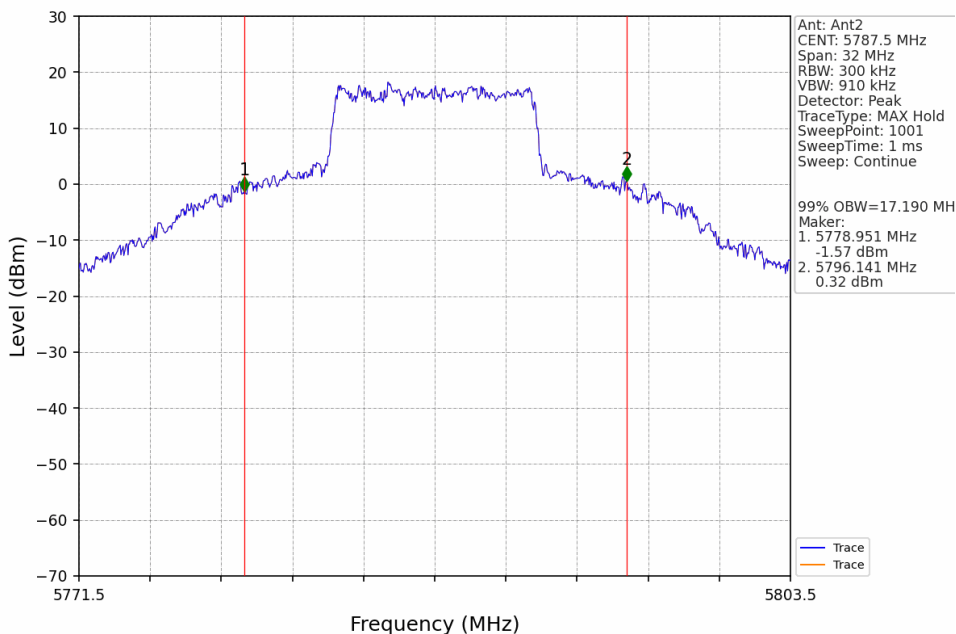
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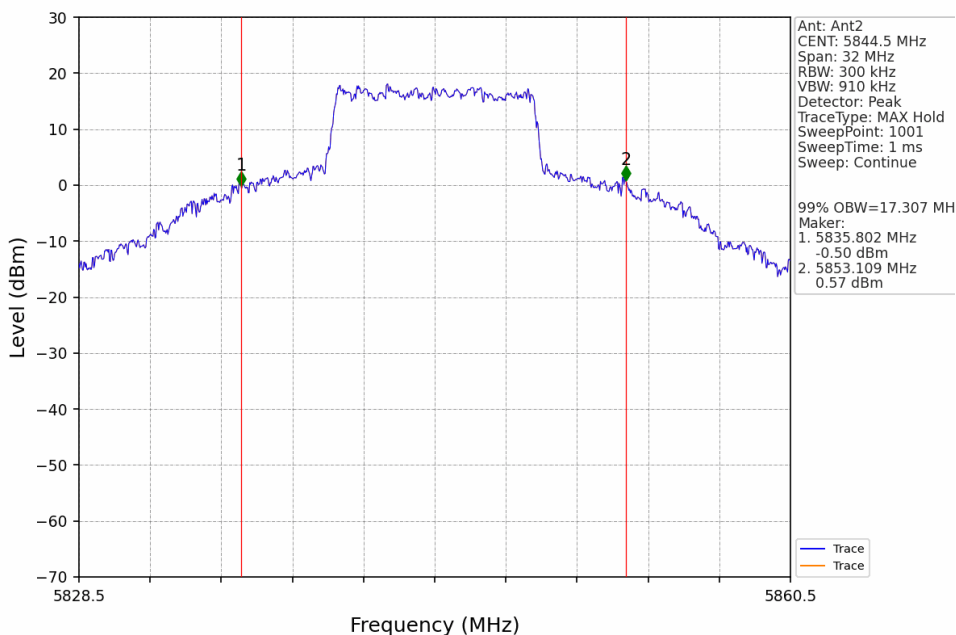
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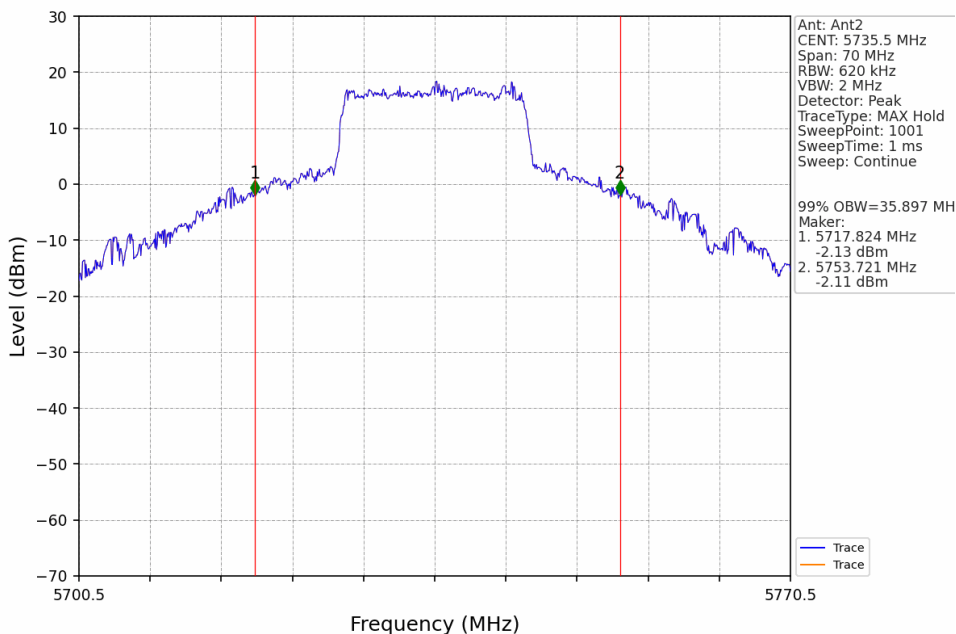
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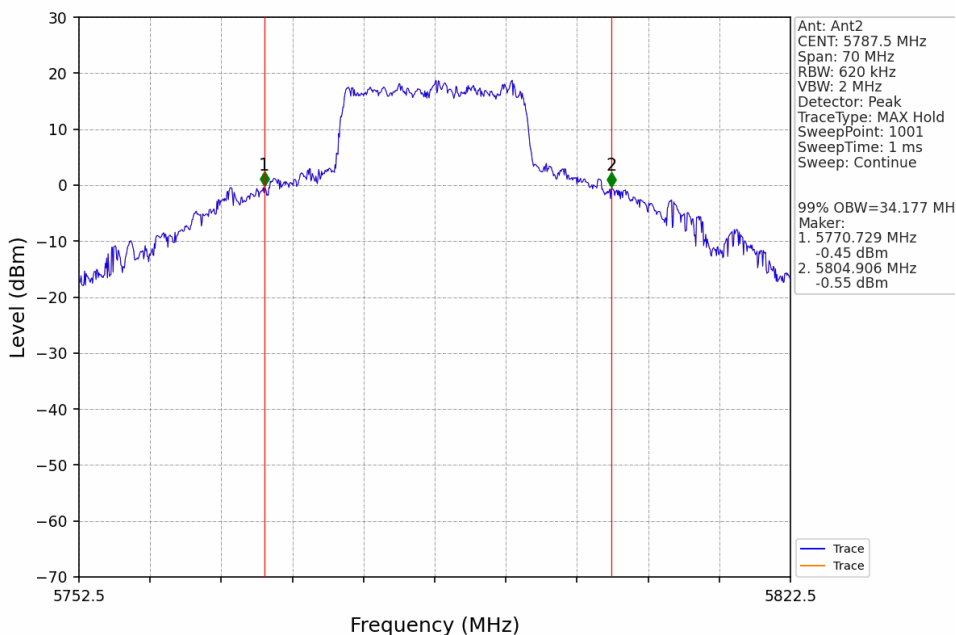
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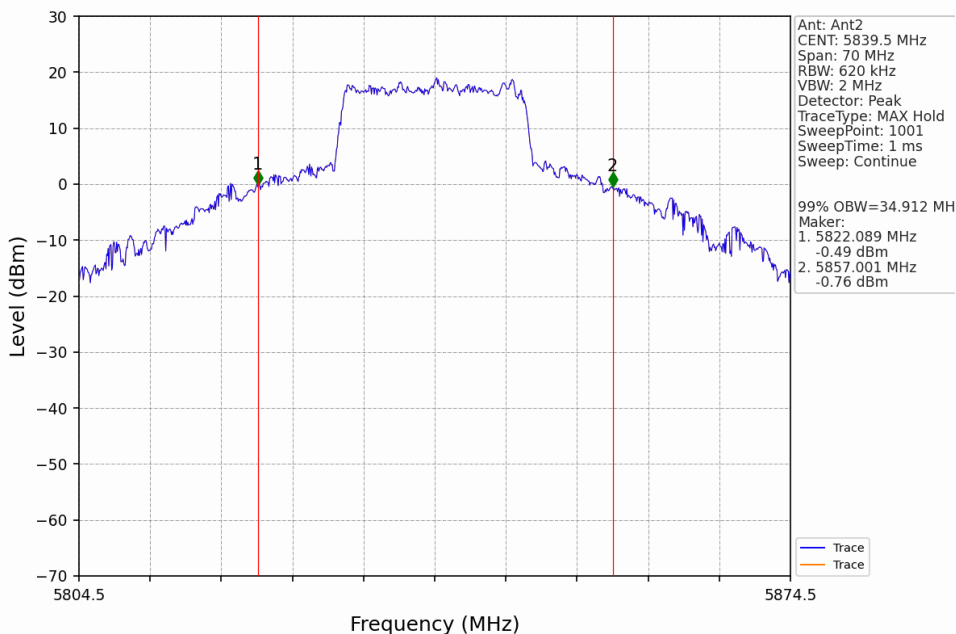
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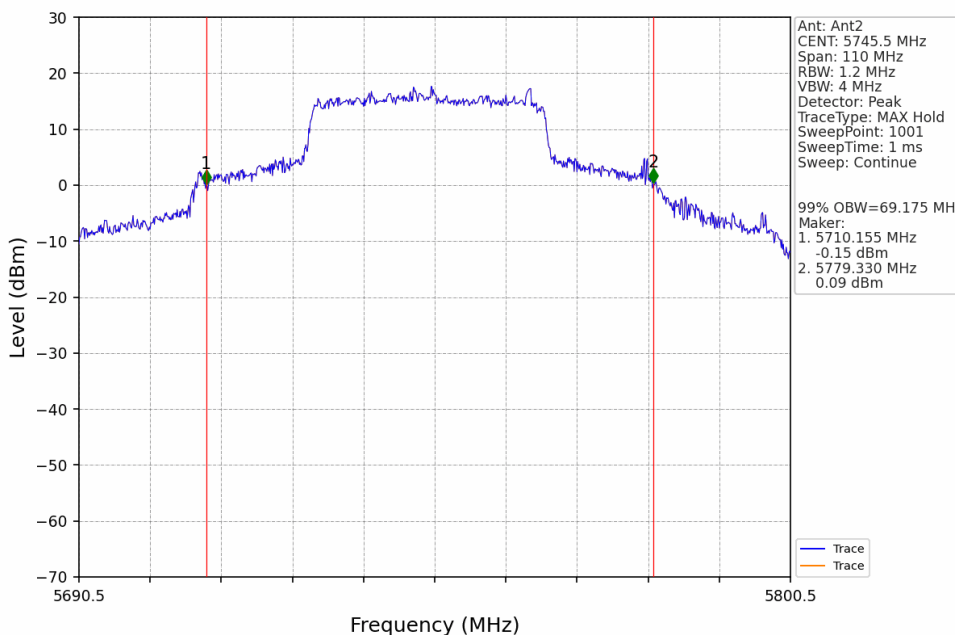
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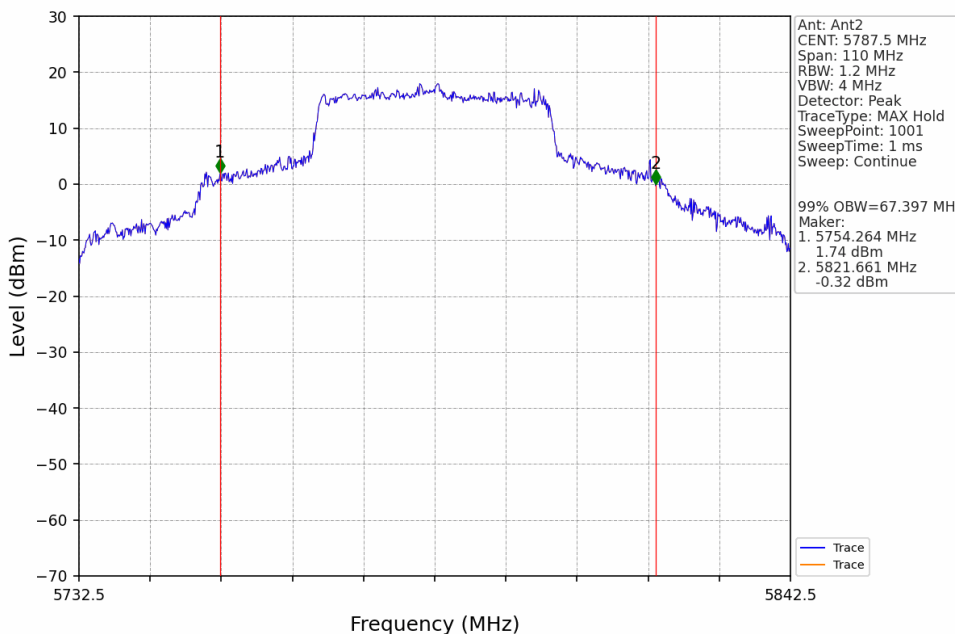
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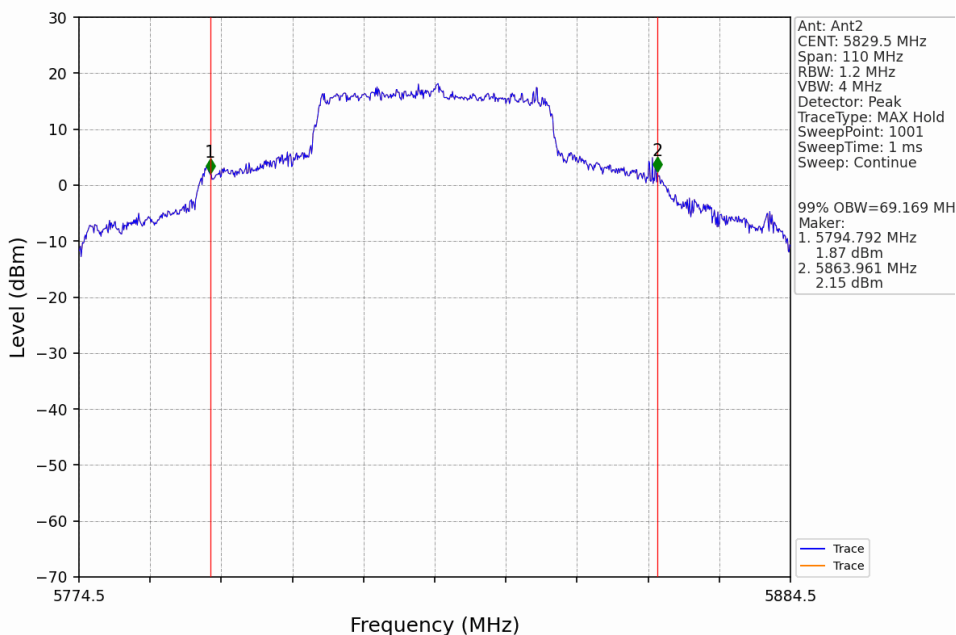
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40M_HCH_5829.5MHz_Ant2_NTNV



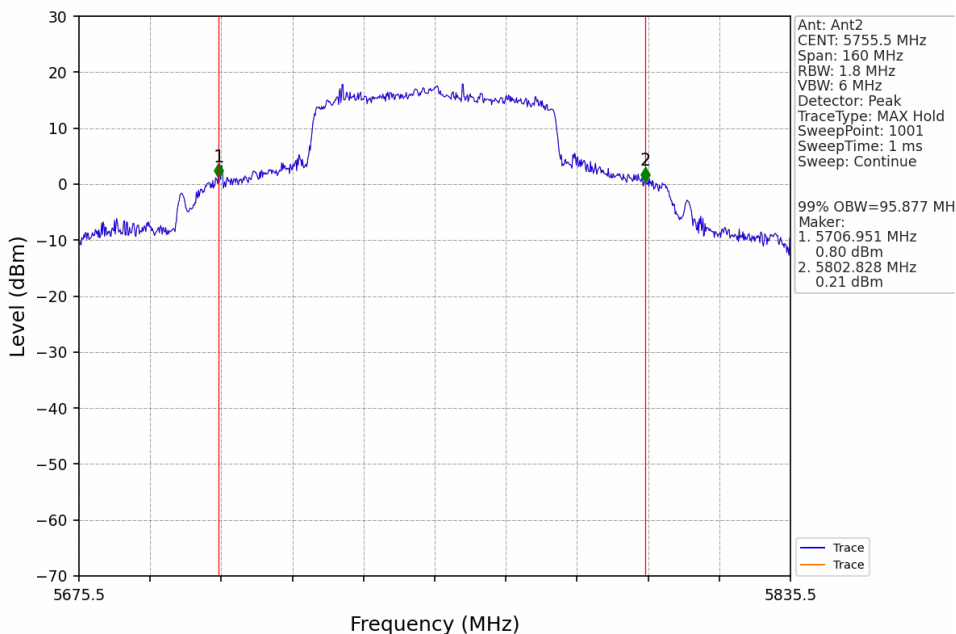
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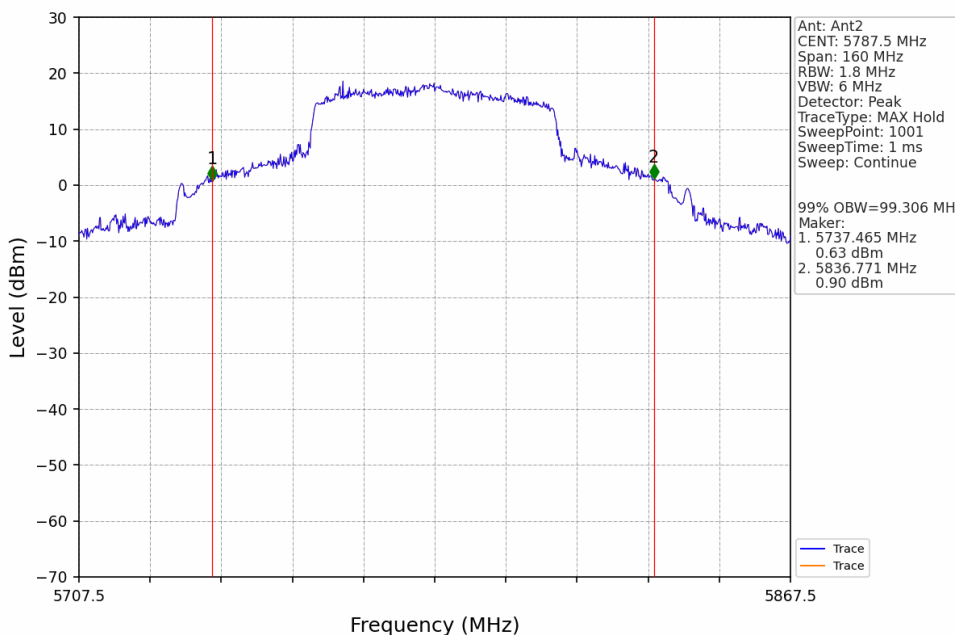
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60M_LCH_5755.5MHz_Ant2_NTNV



60M_MCH_5787.5MHz_Ant2_NTNV



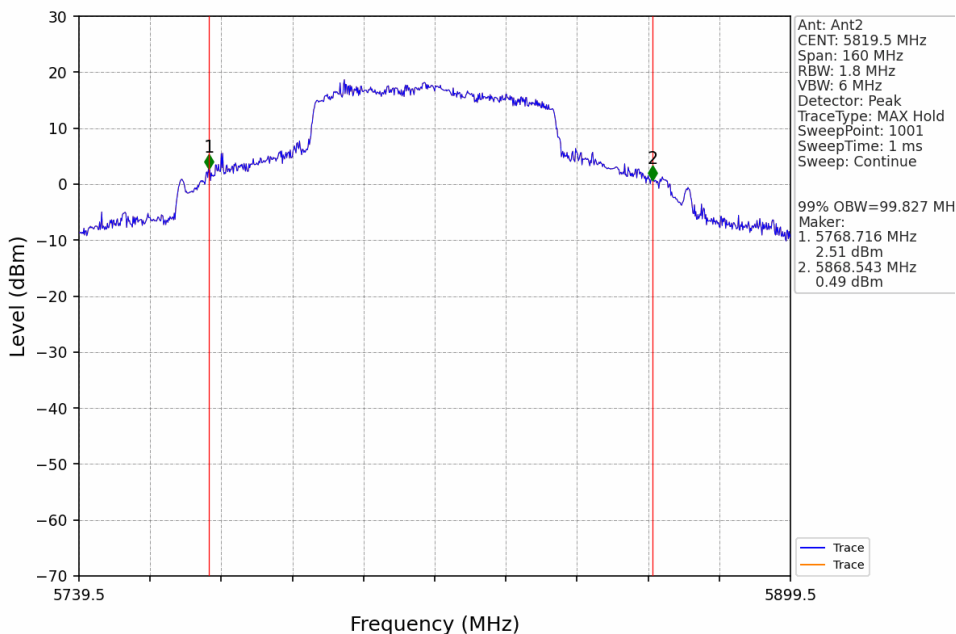
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60M_HCH_5819.5MHz_Ant2_NTNV



80M_LCH_5765.5MHz_Ant2_NTNV

