

TEST REPORT

Application No.: SZCR2502000492AT

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, Guangdong, 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, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Remote Controller

Model No.: ARDCF1

FCC ID: 2BMUV-ARDCF25

Standard(s) : 47 CFR Part 15, Subpart E 15.407

Date of Receipt: 2025-02-13

Date of Test: 2025-02-19 to 2025-02-27

Date of Issue: 2025-03-03

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

Kenx. Xu

Kenx Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-03		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



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium-ion Rechargeable Cell Battery information Model: ICR18650 Nominal Voltage: 3.6V Capacity: 9.18Wh
Cable(s):	USB Type-C to Type-C cable: 16cm unshielded
Operation Frequency:	5.1G SDR 10MHz: 5157MHz-5245MHz(89channel) 20MHz: 5161MHz-5240MHz(80channel) 40MHz: 5170MHz-5230MHz(61channel) 5.8G SDR 1.4MHz mode A: 5728.5MHz-5844.5MHz(59channel) 1.4MHz mode B: 5730.12MHz-5846.12MHz(59channel) 1.4MHz mode C: 5729.69MHz-5840.69MHz(38channel) 1.4MHz mode D: 5731.31MHz-5842.31MHz(38channel) 3MHz mode A: 5727.5MHz-5844.5MHz(40channel) 3MHz mode B: 5730.2MHz-5847.2MHz(40channel) 3MHz mode C: 5730.88MHz-5840.88MHz(23channel) 3MHz mode D: 5734.12MHz-5844.12MHz(23channel) 5MHz mode A: 5732.5MHz-5842.5MHz(23channel) 5MHz mode B: 5733.26MHz-5835.26MHz(103channel) 5MHz mode C: 5739.74MHz-5841.74MHz(103channel) 10MHz mode A: 5730.5MHz-5844.5MHz(115channel) 10MHz mode B: 5731.75MHz-5829.75MHz(99channel) 10MHz mode C: 5745.25MHz-5843.25MHz(99channel) 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 A: 2MHz 1.4MHz mode B: 2MHz 1.4MHz mode C: 3MHz



	1.4MHz mode D: 3MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz 3MHz mode C: 5MHz 3MHz mode D: 5MHz 5MHz mode A: 5MHz 5MHz mode B: 1MHz 5MHz mode C: 1MHz 10MHz mode A: 1MHz 10MHz mode B: 1MHz 10MHz mode C: 1MHz 20MHz: 1MHz 40MHz: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Antenna Type:	Internal Antennas
Antenna Gain:	5.1GHz: Ant 0:1.5dBi; Ant 1:1.5dBi 5.8GHz: Ant 0:4dBi; Ant 1:4dBi

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

4.2 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	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	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	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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

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	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
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



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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	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
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					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	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	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 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.

EUT Antenna:

The antenna is a Internal Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

5.1GHz: Ant 0:1.5dBi; Ant 1:1.5dBi; the directional gain is:4.51dBi.

5.8GHz: Ant 0:4dBi; Ant 1:4dBi; the directional gain is:7.01dBi.

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	15	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	17	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	19	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	21	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	23	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	25	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	27	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	29	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	31	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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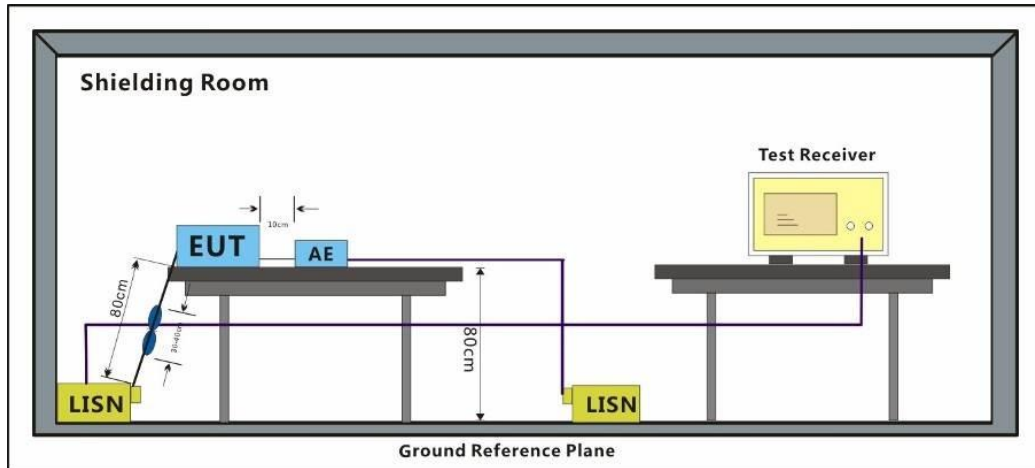
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Pre-scan	33	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	35	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

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



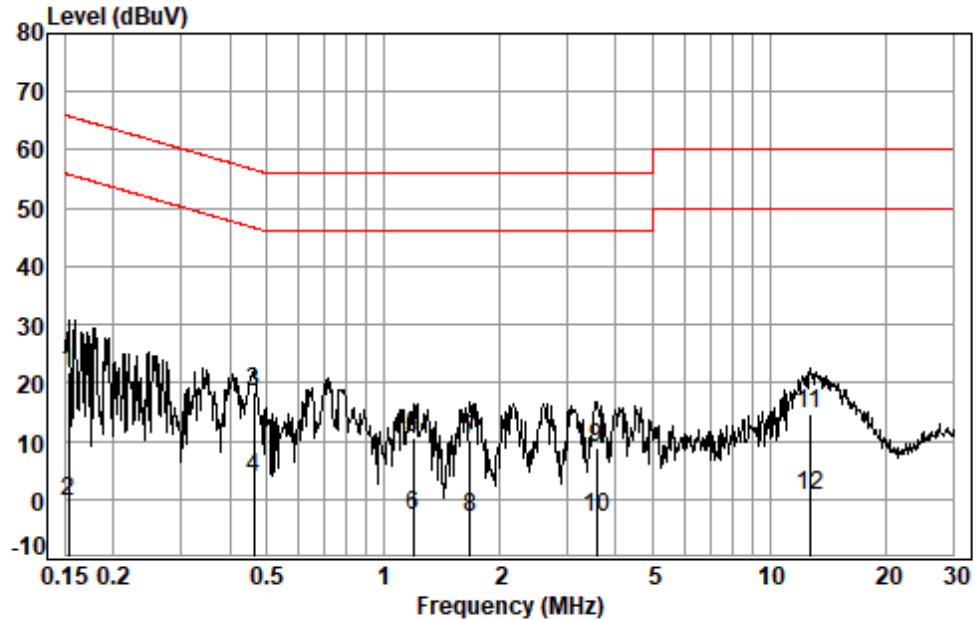
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Test Mode: 15; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00492AT
Test mode: 15

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.06	10.19	11.62	21.87	65.82	-43.95	QP
2	0.1532	0.06	10.19	-10.52	-0.27	55.82	-56.09	Average
3 *	0.4612	0.08	9.59	8.58	18.25	56.67	-38.42	QP
4 *	0.4612	0.08	9.59	-5.92	3.75	46.67	-42.92	Average
5	1.1970	0.09	9.58	0.92	10.59	56.00	-45.41	QP
6	1.1970	0.09	9.58	-12.65	-2.98	46.00	-48.98	Average
7	1.6802	0.10	9.58	0.67	10.35	56.00	-45.65	QP
8	1.6802	0.10	9.58	-12.75	-3.07	46.00	-49.07	Average
9	3.5654	0.11	9.65	-0.83	8.93	56.00	-47.07	QP
10	3.5654	0.11	9.65	-13.03	-3.27	46.00	-49.27	Average
11	12.7161	0.24	9.83	4.40	14.47	60.00	-45.53	QP
12	12.7161	0.24	9.83	-9.48	0.59	50.00	-49.41	Average



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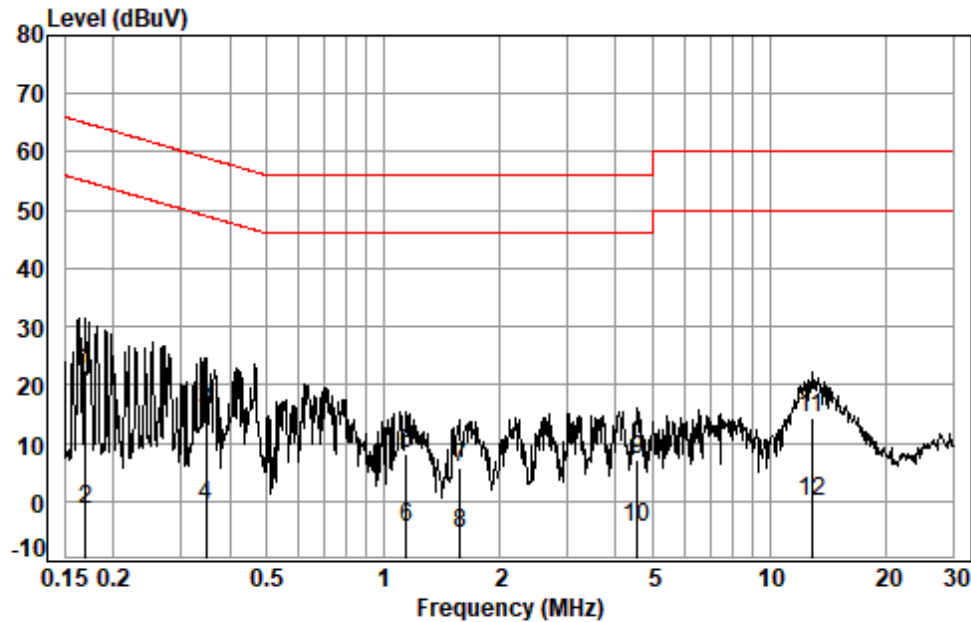
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 15; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00492AT
Test mode: 15

	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	12.23	22.41	64.99	-42.58	QP
2	0.1694	0.06	10.12	-11.64	-1.46	54.99	-56.45	Average
3	0.3483	0.07	9.75	5.99	15.81	59.00	-43.19	QP
4 *	0.3483	0.07	9.75	-10.70	-0.88	49.00	-49.88	Average
5	1.1473	0.09	9.54	-1.56	8.07	56.00	-47.93	QP
6	1.1473	0.09	9.54	-14.20	-4.57	46.00	-50.57	Average
7	1.5767	0.10	9.55	-3.89	5.76	56.00	-50.24	QP
8	1.5767	0.10	9.55	-15.27	-5.62	46.00	-51.62	Average
9	4.5494	0.12	9.56	-2.61	7.07	56.00	-48.93	QP
10	4.5494	0.12	9.56	-14.25	-4.57	46.00	-50.57	Average
11	12.8516	0.24	9.75	4.31	14.30	60.00	-45.70	QP
12	12.8516	0.24	9.75	-10.23	-0.24	50.00	-50.24	Average



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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: 28.7 °C

Humidity: 45.5 % RH

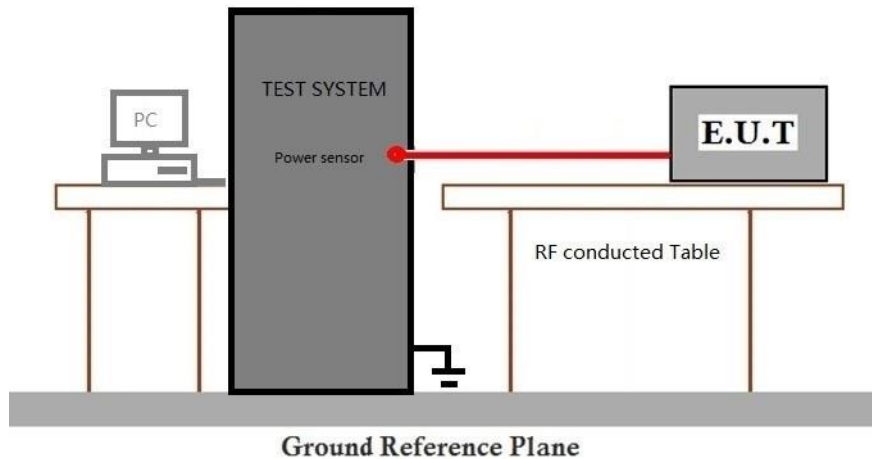
Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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



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: 45.6 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	15	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	17	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	19	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	21	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	23	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	25	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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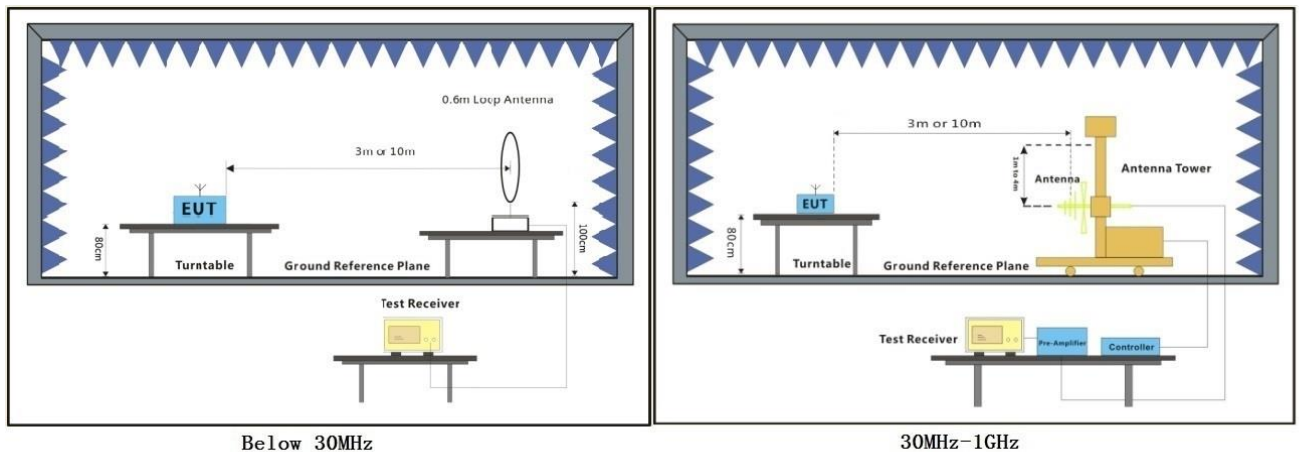
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Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	27	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	29	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	31	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	33	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	34	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	35	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

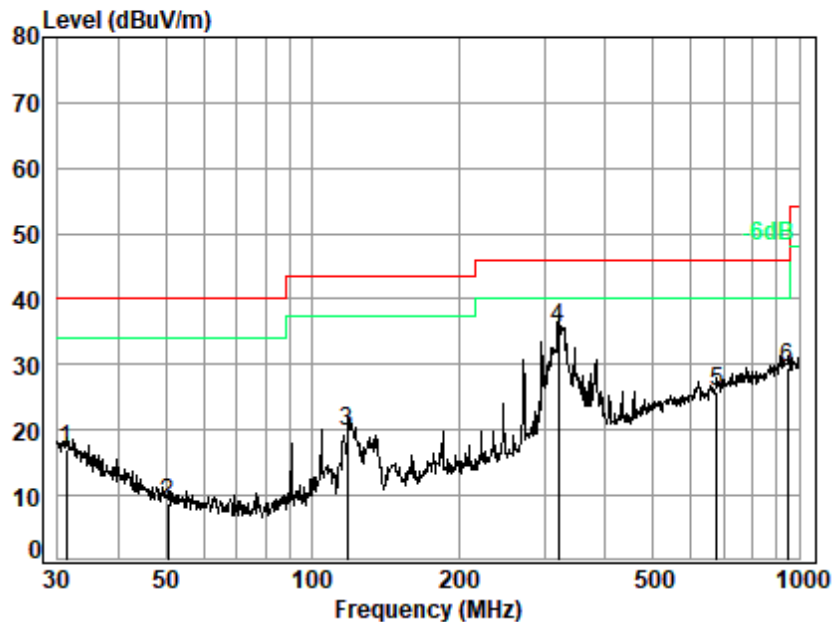
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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: 15; Polarity: Horizontal

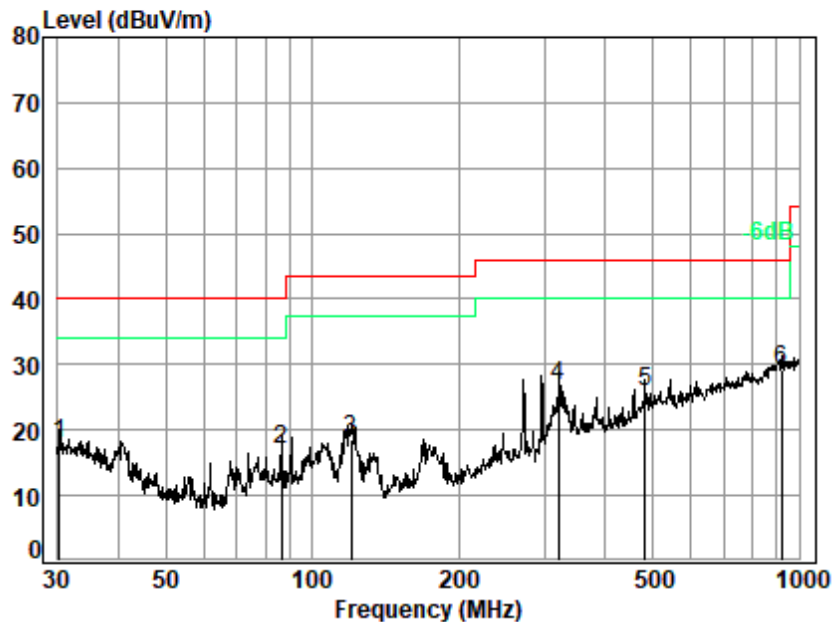


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00492AT
Test Mode: 15

	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	31.180	20.65	0.68	27.79	23.40	16.94	40.00	-23.06 QP
2	50.409	12.69	0.86	27.73	22.86	8.68	40.00	-31.32 QP
3	118.186	11.18	1.35	27.51	34.89	19.91	43.50	-23.59 QP
4 q	321.061	18.53	2.29	26.84	41.65	35.63	46.00	-10.37 QP
5	677.580	25.78	3.48	27.78	24.43	25.91	46.00	-20.09 QP
6	948.761	28.23	4.25	26.42	23.39	29.45	46.00	-16.55 QP



Test Mode: 15; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00492AT
Test Mode: 15

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.211	21.10	0.67	27.79	24.00	17.98	40.00	-22.02 QP
2	86.503	11.24	1.14	27.63	32.40	17.15	40.00	-22.85 QP
3	120.277	11.09	1.36	27.50	33.71	18.66	43.50	-24.84 QP
4	321.061	18.53	2.29	26.84	32.81	26.79	46.00	-19.21 QP
5	482.216	22.80	2.86	27.49	27.66	25.83	46.00	-20.17 QP
6 q	922.516	28.19	4.18	26.60	23.43	29.20	46.00	-16.80 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: 24.5 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Report No.: SZCR250200049202

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Pre-scan	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	15	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	17	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	19	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	21	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	23	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	25	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	27	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	29	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	31	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	33	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	34	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	35	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



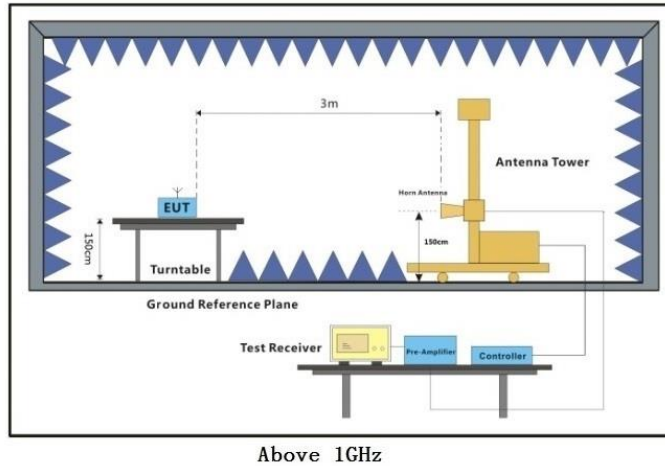
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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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

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

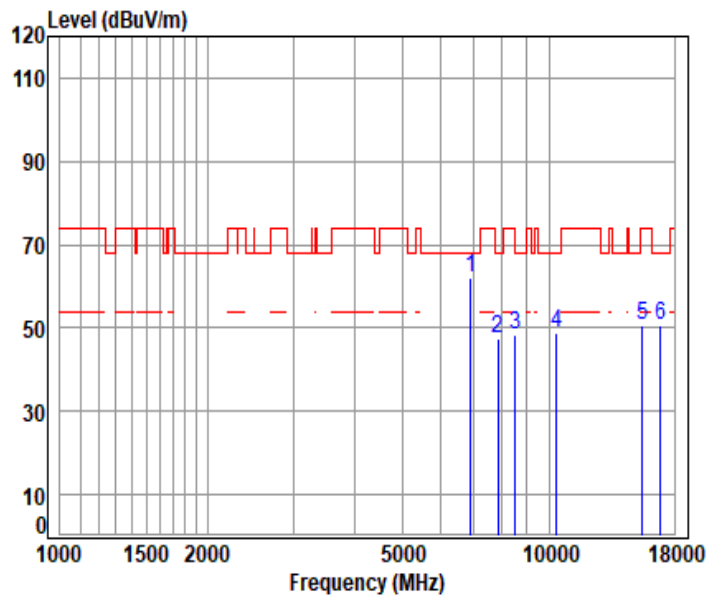
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. 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.



SDR_40M_Horizontal-L



Condition: 3m HORIZONTAL

Job No : 00492AT

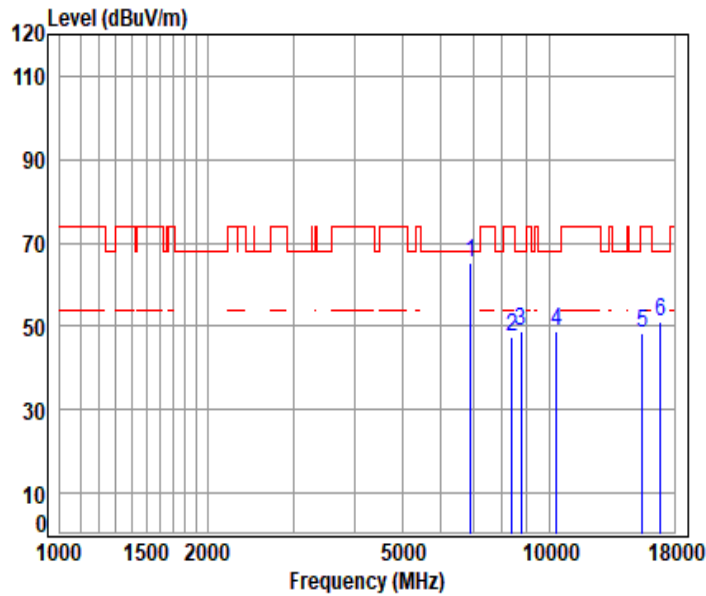
Mode : 5170 TX RSE

: 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	pp 6895.570	11.37	36.18	56.72	71.44	62.27	68.20	-5.93	peak
2	7863.837	11.46	37.46	56.01	54.33	47.24	68.20	-20.96	peak
3	8505.428	12.29	38.30	55.45	53.30	48.44	68.20	-19.76	peak
4	10340.000	13.60	39.00	53.90	50.08	48.78	68.20	-19.42	peak
5	15510.000	16.92	38.59	54.15	49.09	50.45	74.00	-23.55	peak
6	16864.040	17.92	39.60	54.26	47.56	50.82	68.20	-17.38	peak



SDR_40M_Vertical-L



Condition: 3m VERTICAL

Job No : 00492AT

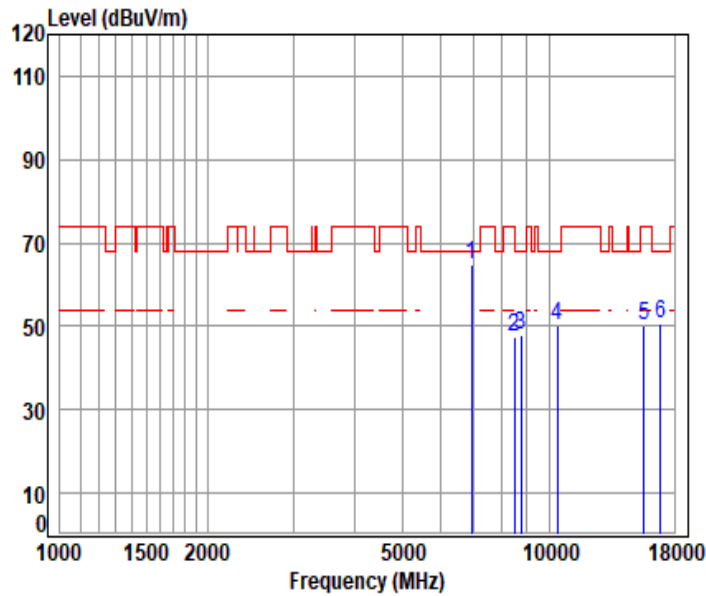
Mode : 5170 TX RSE

: 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	pp 6895.570	11.37	36.18	56.72	74.62	65.45	68.20	-2.75	peak
2	8393.547	11.64	38.61	55.55	52.87	47.57	74.00	-26.43	peak
3	8742.585	12.16	38.51	55.23	53.42	48.86	68.20	-19.34	peak
4	10340.000	13.60	39.00	53.90	50.01	48.71	68.20	-19.49	peak
5	15510.000	16.92	38.59	54.15	47.17	48.53	74.00	-25.47	peak
6	16881.220	18.04	39.60	54.26	47.63	51.01	68.20	-17.19	peak



SDR_40M_Horizontal-M



Condition: 3m HORIZONTAL

Job No : 00492AT

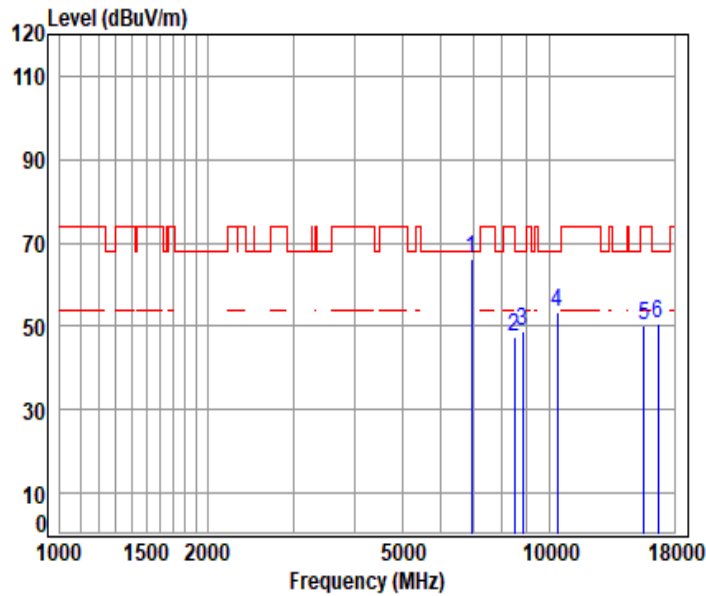
Mode : 5200 TX RSE

: 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	
pp 6930.778	11.37	36.14	56.71	74.16	64.96	68.20	-3.24	peak
8479.478	12.17	38.34	55.47	52.61	47.65	74.00	-26.35	peak
8742.585	12.16	38.51	55.23	52.46	47.90	68.20	-20.30	peak
10400.000	13.62	39.00	53.86	51.54	50.30	68.20	-17.90	peak
15600.000	17.17	38.50	54.12	48.50	50.05	74.00	-23.95	peak
16846.870	17.80	39.60	54.25	47.67	50.82	68.20	-17.38	peak



SDR_40M_Vertical-M



Condition: 3m VERTICAL

Job No : 00492AT

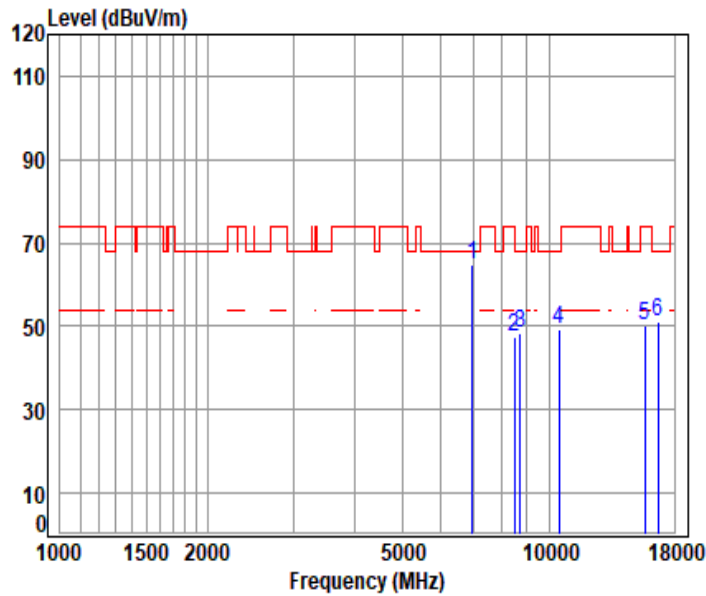
Mode : 5200 TX RSE

: 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	
pp 6930.778	11.37	36.14	56.71	75.55	66.35	68.20	-1.85	peak
8488.119	12.23	38.32	55.46	52.37	47.46	74.00	-26.54	peak
8805.143	12.25	38.50	55.18	53.33	48.90	68.20	-19.30	peak
10400.000	13.62	39.00	53.86	54.61	53.37	68.20	-14.83	peak
15600.000	17.17	38.50	54.12	48.56	50.11	74.00	-23.89	peak
16676.140	17.60	39.35	54.20	47.77	50.52	68.20	-17.68	peak



SDR_40M_Horizontal-H



Condition: 3m HORIZONTAL

Job No : 00492AT

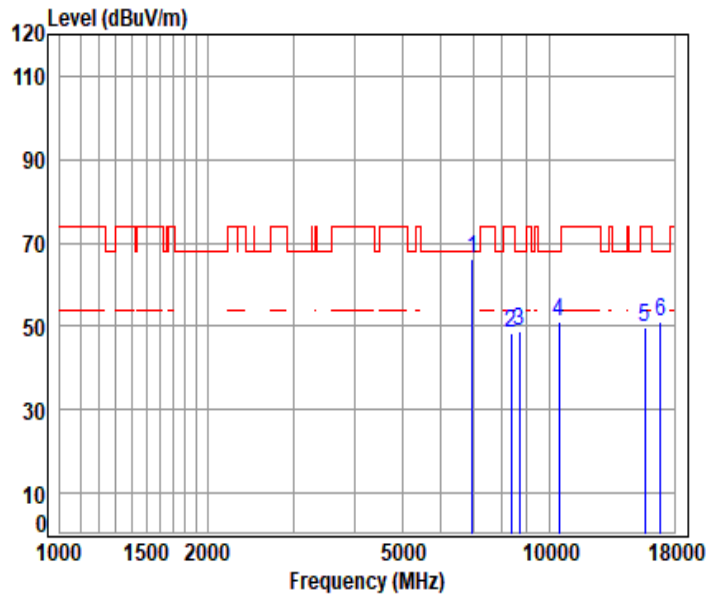
Mode : 5230 TX RSE

: 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	pp 6973.265	11.37	36.15	56.71	73.86	64.67	68.20	-3.53	peak
2	8479.478	12.17	38.34	55.47	52.56	47.60	74.00	-26.40	peak
3	8733.685	12.14	38.53	55.24	52.85	48.28	68.20	-19.92	peak
4	10460.000	13.63	39.06	53.82	50.56	49.43	68.20	-18.77	peak
5	15690.000	17.26	38.59	54.09	48.37	50.13	74.00	-23.87	peak
6	16693.140	17.59	39.39	54.21	48.16	50.93	68.20	-17.27	peak



SDR_40M_Vertical-H



Condition: 3m VERTICAL

Job No : 00492AT

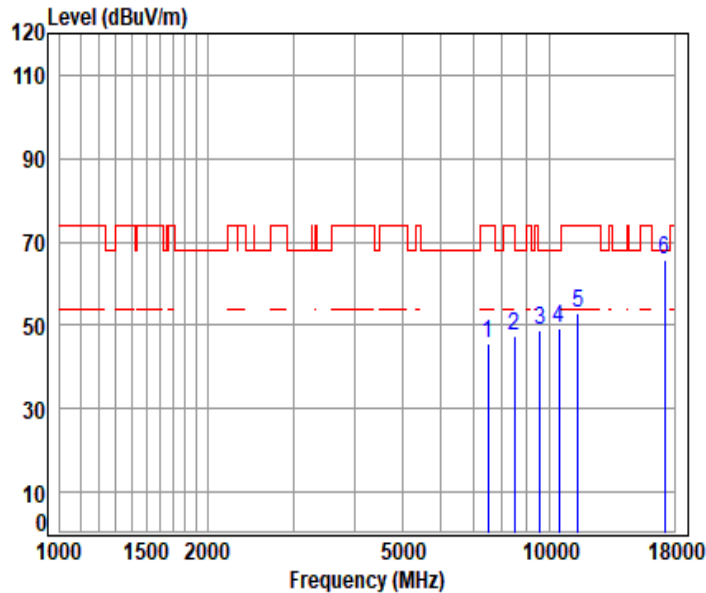
Mode : 5230 TX RSE

: 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	pp 6973.265	11.37	36.15	56.71	75.45	66.26	68.20	-1.94	peak
2	8350.908	11.69	38.70	55.58	53.47	48.28	74.00	-25.72	peak
3	8680.473	12.06	38.52	55.29	53.38	48.67	68.20	-19.53	peak
4	10460.000	13.63	39.06	53.82	52.34	51.21	68.20	-16.99	peak
5	15690.000	17.26	38.59	54.09	47.95	49.71	74.00	-24.29	peak
6	16846.870	17.80	39.60	54.25	47.73	50.88	68.20	-17.32	peak



SDR_5M_Horizontal-L



Condition: 3m HORIZONTAL

Job No : 00492AT

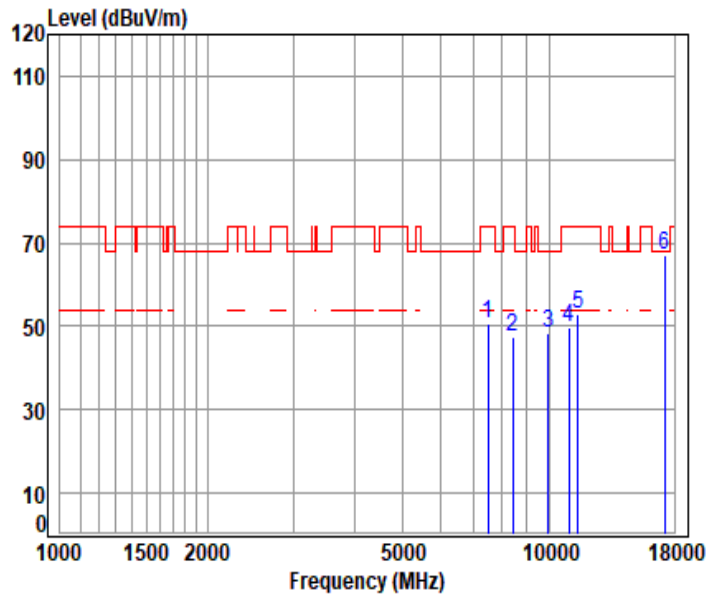
Mode : 5732.5 TX RSE

: 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	7480.987	11.28	36.80	56.32	53.83	45.59	74.00	-28.41	peak
2	8479.478	12.17	38.34	55.47	52.19	47.23	74.00	-26.77	peak
3	9572.157	12.47	38.80	54.49	51.89	48.67	68.20	-19.53	peak
4	10448.470	13.63	39.05	53.83	50.45	49.30	68.20	-18.90	peak
5	11465.000	14.76	39.63	53.64	52.12	52.87	74.00	-21.13	peak
6	pp17197.500	17.84	39.90	54.34	62.34	65.74	68.20	-2.46	peak



SDR_5M_Vertical-L



Condition: 3m VERTICAL

Job No : 00492AT

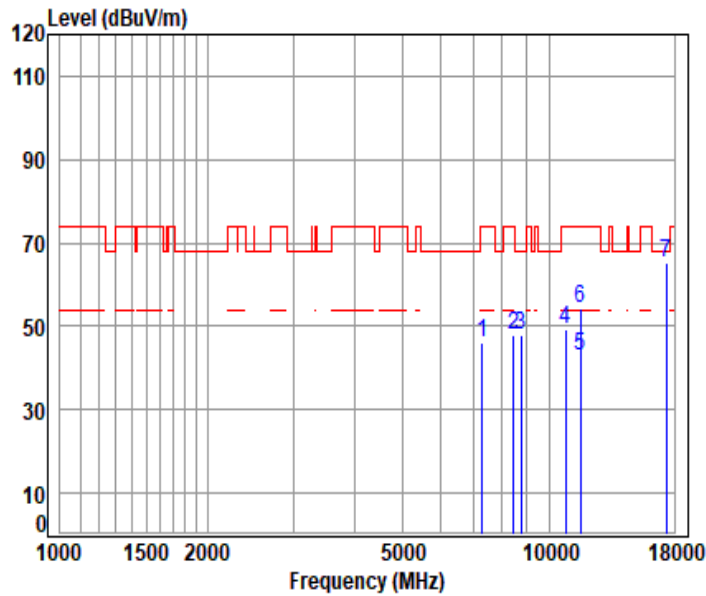
Mode : 5732.5 TX RSE

: 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	7496.243	11.24	36.80	56.30	59.11	50.85	74.00	-23.15	peak
2	8410.663	11.70	38.56	55.53	52.76	47.49	74.00	-26.51	peak
3	9939.788	12.88	38.90	54.15	50.83	48.46	68.20	-19.74	peak
4	10949.680	14.06	39.35	53.53	49.68	49.56	74.00	-24.44	peak
5	11465.000	14.76	39.63	53.64	52.13	52.88	74.00	-21.12	peak
6	pp17197.500	17.84	39.90	54.34	63.57	66.97	68.20	-1.23	peak



SDR_5M_Horizontal-M



Condition: 3m HORIZONTAL

Job No : 00492AT

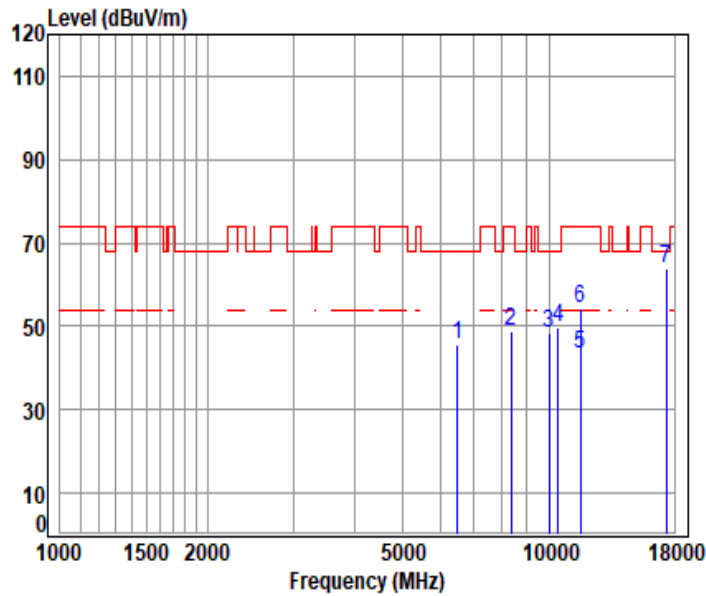
Mode : 5782.5 TX RSE

: 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	
7300.327	11.51	36.70	56.46	54.39	46.14	74.00	-27.86	peak
8462.222	12.05	38.38	55.48	53.03	47.98	74.00	-26.02	peak
8751.494	12.17	38.50	55.22	52.51	47.96	68.20	-20.24	peak
10794.640	13.70	39.31	53.62	50.03	49.42	74.00	-24.58	peak
av11565.000	14.80	39.60	53.67	42.05	42.78	54.00	-11.22	Average
11565.000	14.80	39.60	53.67	53.36	54.09	74.00	-19.91	peak
p17347.500	17.98	40.30	54.37	61.35	65.26	68.20	-2.94	peak



SDR_5M_Vertical-M



Condition: 3m VERTICAL

Job No : 00492AT

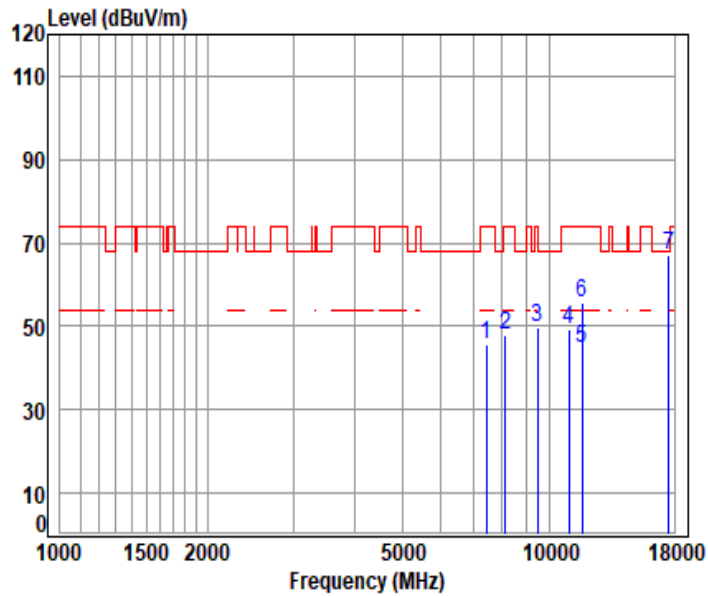
Mode : 5782.5 TX RSE

: 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	
6500.000	11.67	34.90	56.80	56.06	45.83	68.20	-22.37	peak
8350.908	11.69	38.70	55.58	53.90	48.71	74.00	-25.29	peak
10000.720	13.01	38.90	54.10	50.53	48.34	68.20	-19.86	peak
10405.990	13.62	39.01	53.86	51.03	49.80	68.20	-18.40	peak
av11565.000	14.80	39.60	53.67	42.75	43.48	54.00	-10.52	Average
11565.000	14.80	39.60	53.67	53.38	54.11	74.00	-19.89	peak
p17347.500	17.98	40.30	54.37	59.79	63.70	68.20	-4.50	peak



SDR_5M_Horizontal-H



Condition: 3m HORIZONTAL

Job No : 00492AT

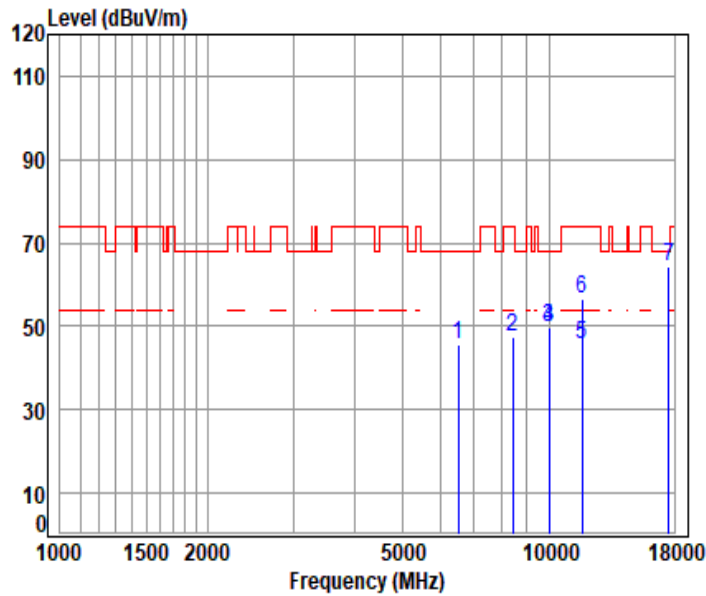
Mode : 5842.5 TX RSE

: 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	7442.985	11.38	36.79	56.35	53.64	45.46	74.00	-28.54	peak
2	8132.655	11.49	37.87	55.78	54.11	47.69	74.00	-26.31	peak
3	9446.244	12.42	38.80	54.60	52.96	49.58	74.00	-24.42	peak
4	10960.830	14.09	39.36	53.52	49.39	49.32	74.00	-24.68	peak
5	av11685.000	14.72	39.51	53.71	44.33	44.85	54.00	-9.15	Average
6	11685.000	14.72	39.51	53.71	55.06	55.58	74.00	-18.42	peak
7	pp17527.500	18.80	40.74	54.41	62.01	67.14	68.20	-1.06	peak



SDR_5M_Vertical-H



Condition: 3m VERTICAL

Job No : 00492AT

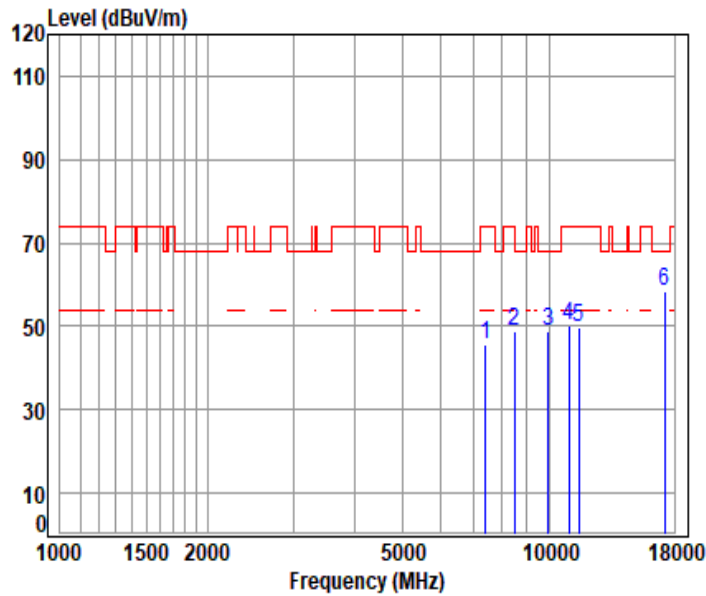
Mode : 5842.5 TX RSE

: 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	
6506.624	11.67	34.91	56.80	55.88	45.66	68.20	-22.54	peak
8419.234	11.76	38.52	55.52	52.87	47.63	74.00	-26.37	peak
10000.720	13.01	38.90	54.10	51.70	49.51	68.20	-18.69	peak
10000.720	13.01	38.90	54.10	51.70	49.51	68.20	-18.69	peak
v11685.000	14.72	39.51	53.71	45.28	45.80	54.00	-8.20	Average
11685.000	14.72	39.51	53.71	56.01	56.53	74.00	-17.47	peak
p17527.500	18.80	40.74	54.41	59.32	64.45	68.20	-3.75	peak



SDR_20M_Horizontal-L



Condition: 3m HORIZONTAL

Job No : 00492AT

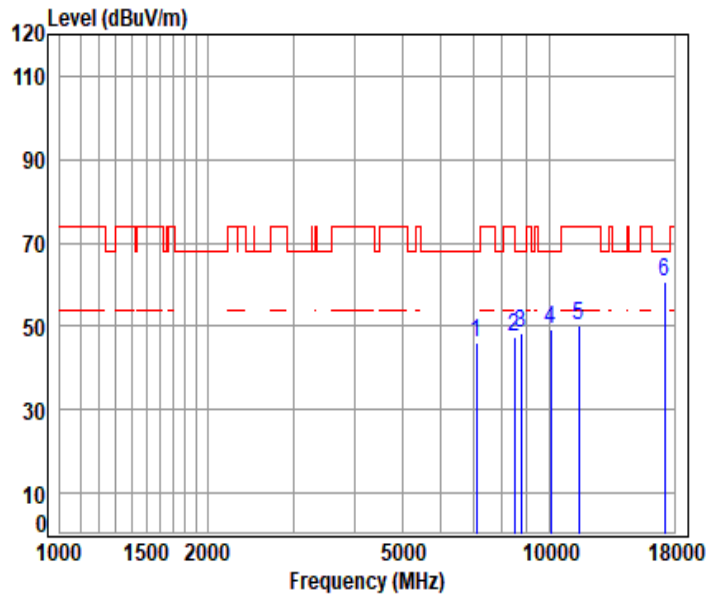
Mode : 5735.5 TX RSE

: 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	7420.276	11.45	36.74	56.36	53.71	45.54	74.00	-28.46	peak
2	8496.769	12.29	38.31	55.45	53.56	48.71	74.00	-25.29	peak
3	9949.918	12.90	38.90	54.15	51.27	48.92	68.20	-19.28	peak
4	10972.000	14.11	39.37	53.52	50.20	50.16	74.00	-23.84	peak
5	11471.000	14.81	39.63	53.64	49.14	49.94	74.00	-24.06	peak
6	pp17206.500	17.82	39.92	54.34	54.93	58.33	68.20	-9.87	peak



SDR_20M_Vertical-L



Condition: 3m VERTICAL

Job No : 00492AT

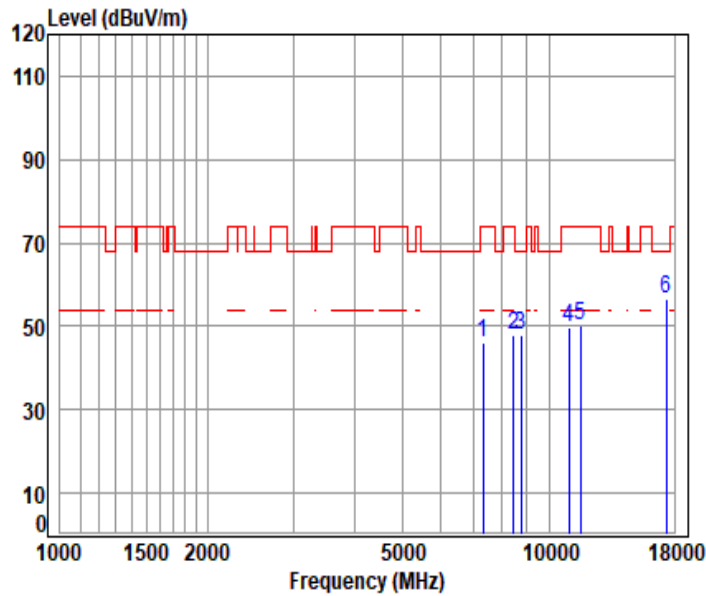
Mode : 5735.5 TX RSE

: 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	
7087.840	11.91	36.38	56.63	54.34	46.00	68.20	-22.20	peak
8496.769	12.29	38.31	55.45	52.12	47.27	74.00	-26.73	peak
8769.341	12.20	38.50	55.21	53.00	48.49	68.20	-19.71	peak
10072.280	13.20	39.04	54.06	51.21	49.39	68.20	-18.81	peak
11471.000	14.81	39.63	53.64	49.44	50.24	74.00	-23.76	peak
p17206.500	17.82	39.92	54.34	57.11	60.51	68.20	-7.69	peak



SDR_20M_Horizontal-M



Condition: 3m HORIZONTAL

Job No : 00492AT

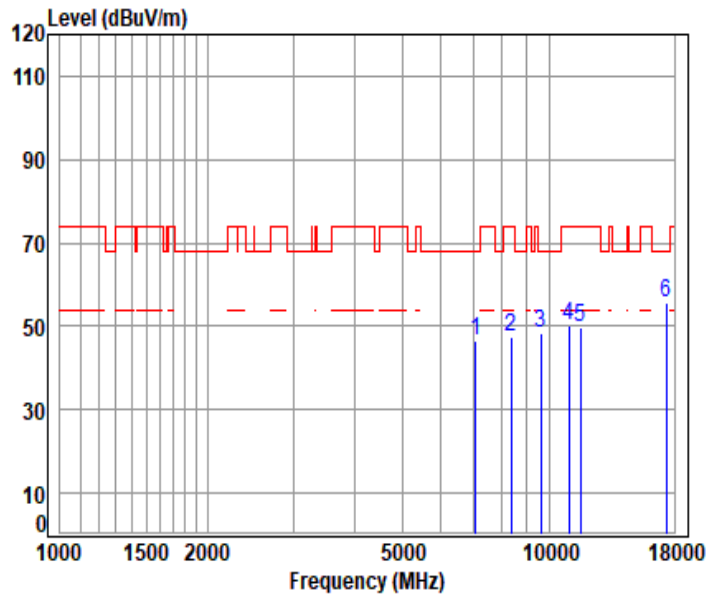
Mode : 5787.5 TX RSE

: 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	7330.131	11.51	36.76	56.44	54.17	46.00	74.00	-28.00	peak
2	8445.000	11.94	38.42	55.50	52.97	47.83	74.00	-26.17	peak
3	8769.341	12.20	38.50	55.21	52.61	48.10	68.20	-20.10	peak
4	10983.190	14.13	39.38	53.51	49.64	49.64	74.00	-24.36	peak
5	11575.000	14.76	39.60	53.67	49.35	50.04	74.00	-23.96	peak
6	pp17362.500	18.03	40.33	54.37	52.64	56.63	68.20	-11.57	peak



SDR_20M_Vertical-M



Condition: 3m VERTICAL

Job No : 00492AT

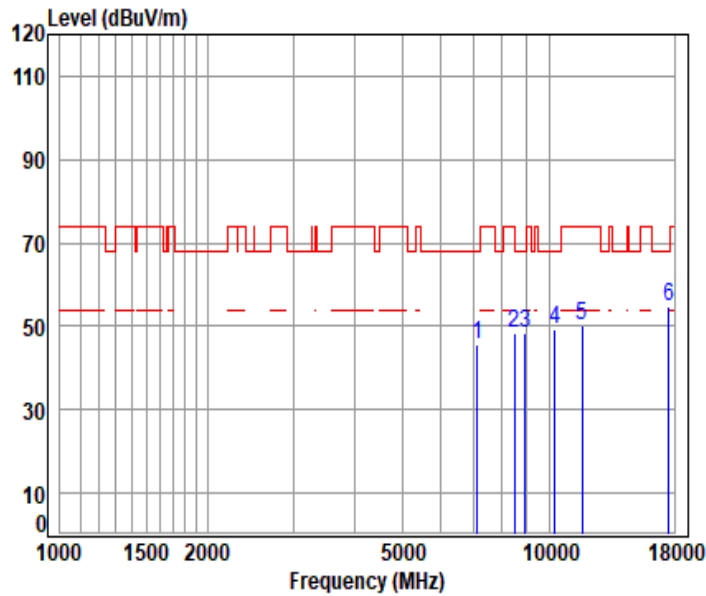
Mode : 5787.5 TX RSE

: 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	7059.021	11.74	36.32	56.65	54.95	46.36	68.20	-21.84	peak
2	8342.406	11.70	38.58	55.59	52.66	47.35	74.00	-26.65	peak
3	9591.677	12.44	38.80	54.47	51.81	48.58	68.20	-19.62	peak
4	10983.190	14.13	39.38	53.51	50.23	50.23	74.00	-23.77	peak
5	11575.000	14.76	39.60	53.67	49.25	49.94	74.00	-24.06	peak
6	pp17362.500	18.03	40.33	54.37	51.66	55.65	68.20	-12.55	peak



SDR_20M_Horizontal-H



Condition: 3m HORIZONTAL

Job No : 00492AT

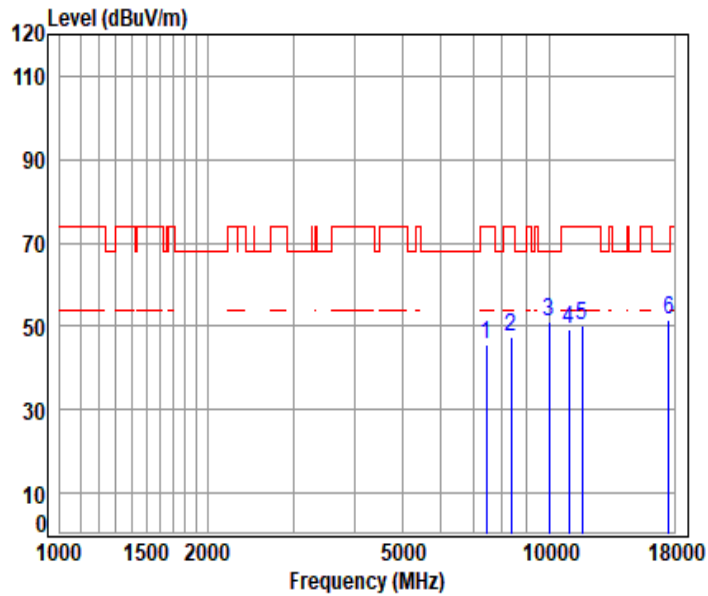
Mode : 5839.5 TX RSE

: 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	7131.289	11.84	36.46	56.59	53.94	45.65	68.20	-22.55	peak
2	8496.769	12.29	38.31	55.45	53.12	48.27	74.00	-25.73	peak
3	8940.705	12.19	38.52	55.05	52.71	48.37	68.20	-19.83	peak
4	10258.650	13.38	39.04	53.94	50.81	49.29	68.20	-18.91	peak
5	11679.000	14.72	39.52	53.70	49.65	50.19	74.00	-23.81	peak
6	pp17518.500	18.68	40.79	54.40	49.75	54.82	68.20	-13.38	peak



SDR_20M_Vertical-H



Condition: 3m VERTICAL

Job No : 00492AT

Mode : 5839.5 TX RSE

: 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	7435.407	11.40	36.77	56.35	53.70	45.52	74.00	-28.48	peak
2	8350.908	11.69	38.70	55.58	52.59	47.40	74.00	-26.60	peak
3	9970.208	12.95	38.90	54.13	53.43	51.15	68.20	-17.05	peak
4	10983.190	14.13	39.38	53.51	49.29	49.29	74.00	-24.71	peak
5	11679.000	14.72	39.52	53.70	49.75	50.29	74.00	-23.71	peak
6	pp17518.500	18.68	40.79	54.40	46.64	51.71	68.20	-16.49	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: 24.5 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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Shenzhen Branch Testing Laboratory

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049202

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Pre-scan	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	15	TX mode (5.8G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	17	TX mode (5.8G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	19	TX mode (5.8G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	21	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	23	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	25	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	27	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	29	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	31	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	33	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	34	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	35	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



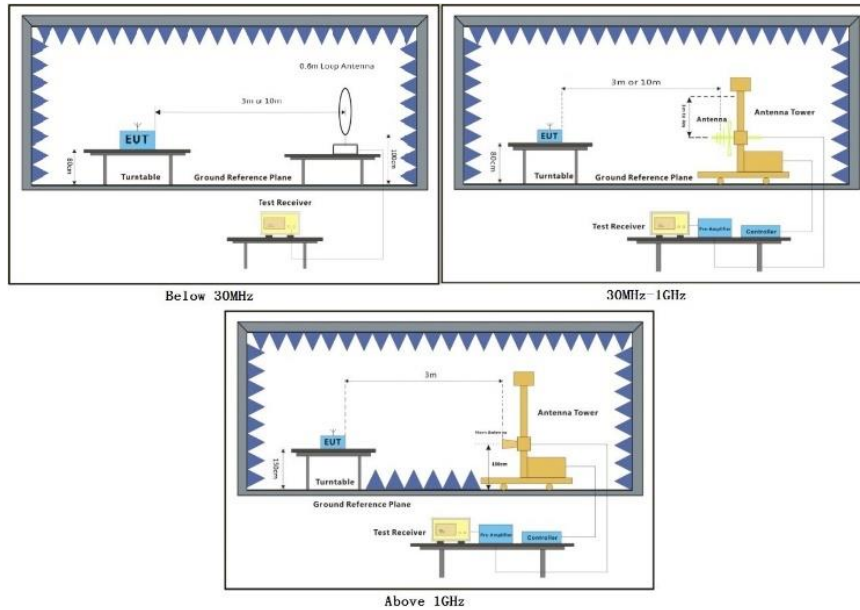
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7.5.3 Test Setup Diagram



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.

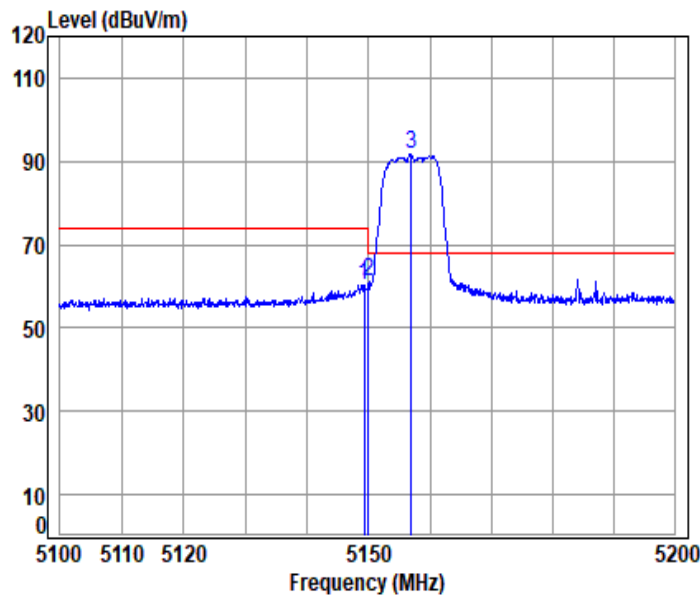
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



SDR_10M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

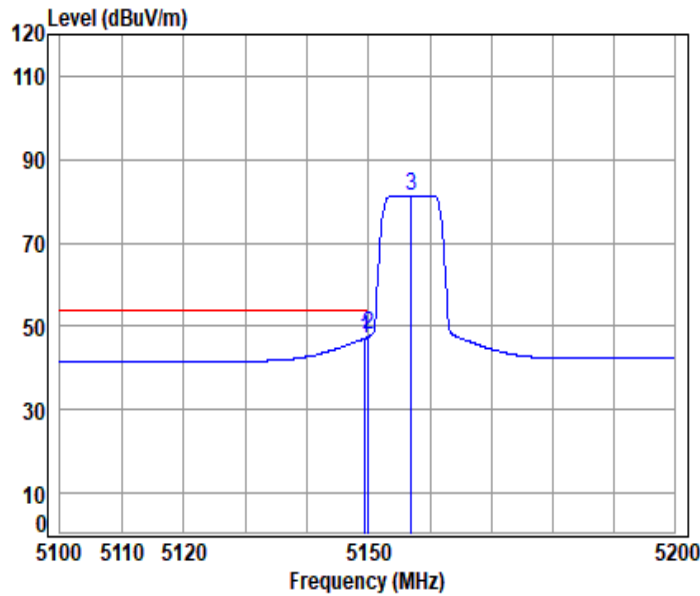
Mode : 5157 Band edge

: 5.1G SRD 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	48.75	60.45	74.00	-13.55	peak
2	5149.980	10.14	32.40	30.84	49.40	61.10	74.00	-12.90	peak
3 pp	5157.000	10.17	32.41	30.84	79.76	91.50	68.20	23.30	peak



SDR_10M_Horizontal-AVG-L



Condition: 3m HORIZONTAL

Job No : 00492AT

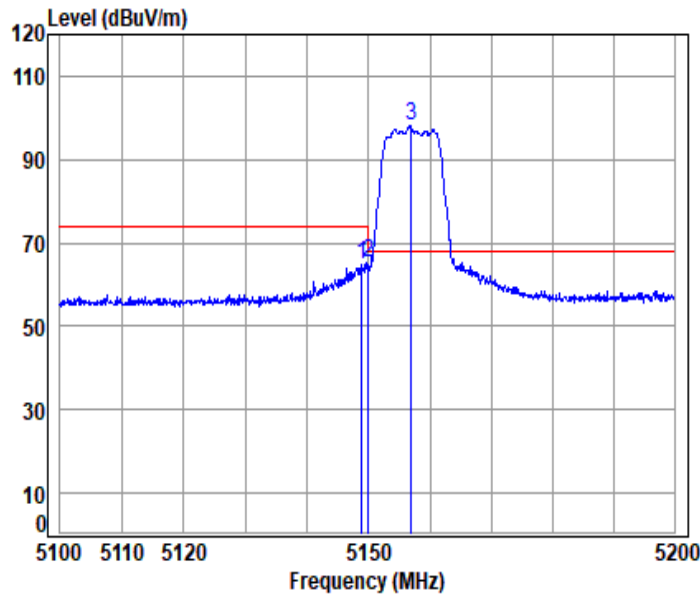
Mode : 5157 Band edge

: 5.1G SRD 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	5149.458	10.14	32.40	30.84	35.42	47.12	54.00	-6.88	Average
2	pp 5149.980	10.14	32.40	30.84	35.99	47.69	54.00	-6.31	Average
3	5157.000	10.17	32.41	30.84	69.64	81.38	-----	-----	Average



SDR_10M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

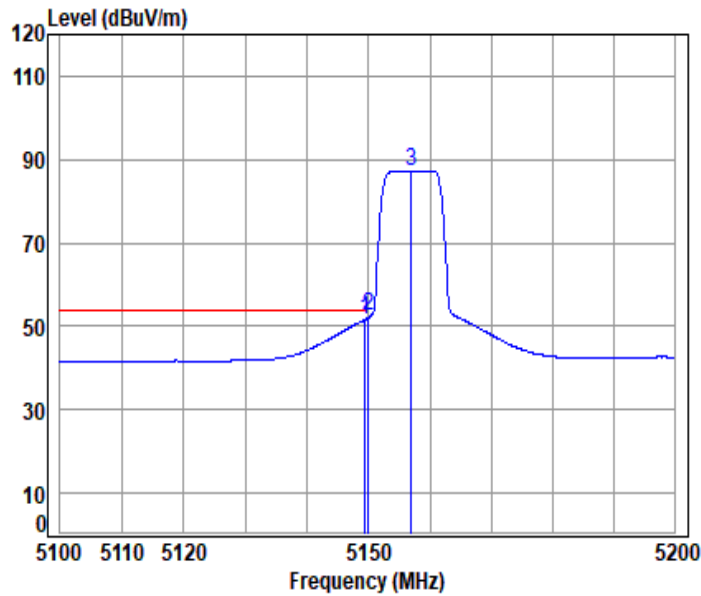
Mode : 5157 Band edge

: 5.1G SRD 10M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.857	10.14	32.40	30.84	53.16	64.86	74.00	-9.14	peak
2	5149.980	10.14	32.40	30.84	53.42	65.12	74.00	-8.88	peak
3 pp	5157.000	10.17	32.41	30.84	86.18	97.92	68.20	29.72	peak



SDR_10M_Vertical-AVG-L



Condition: 3m VERTICAL

Job No : 00492AT

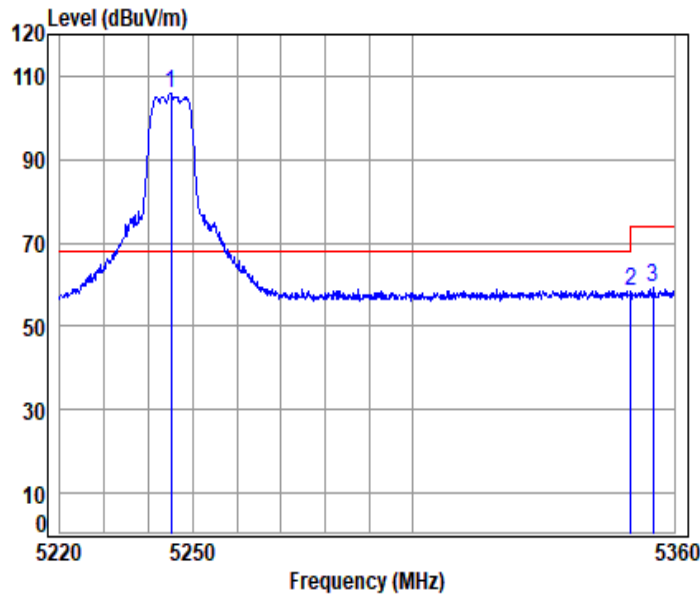
Mode : 5157 Band edge

: 5.1G SRD 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	5149.458	10.14	32.40	30.84	39.98	51.68	54.00	-2.32	Average
2	pp 5149.980	10.14	32.40	30.84	40.72	52.42	54.00	-1.58	Average
3	5157.000	10.17	32.41	30.84	75.51	87.25	-----	-----	Average



SDR_10M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

Mode : 5245 Band edge

: 5.1G SRD 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	93.78	105.88	68.20	37.68	peak
2	5350.020	10.45	32.80	30.76	45.73	58.22	74.00	-15.78	peak
3	5355.037	10.47	32.80	30.76	46.63	59.14	74.00	-14.86	peak



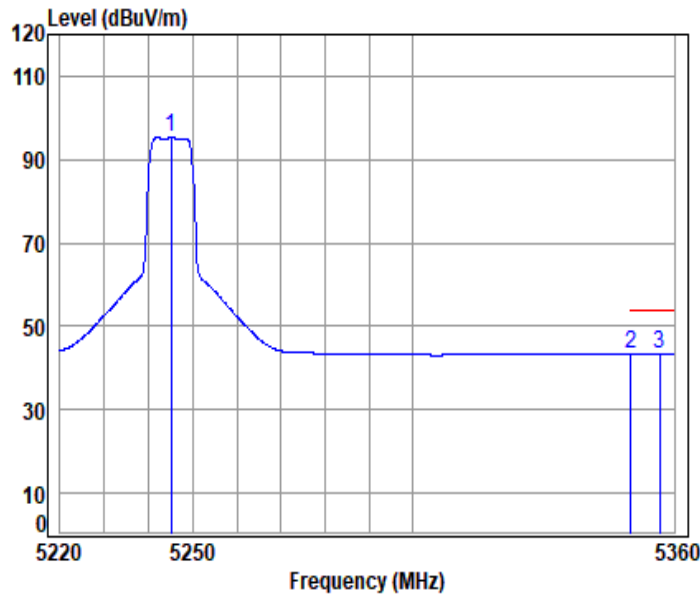
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SDR_10M_Horizontal-AVG-H



Condition: 3m HORIZONTAL

Job No : 00492AT

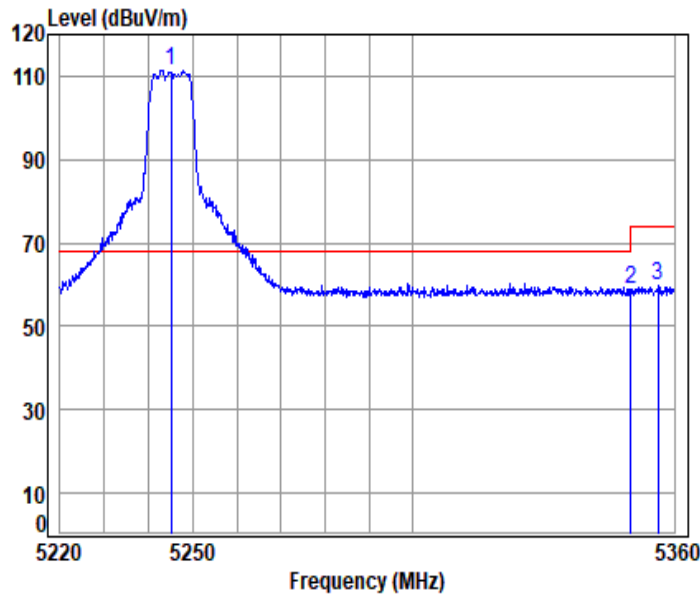
Mode : 5245 Band edge

: 5.1G SRD 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	83.13	95.23	-----	-----	Average
2	5350.020	10.45	32.80	30.76	30.98	43.47	54.00	-10.53	Average
3	pp 5356.596	10.47	32.80	30.76	31.06	43.57	54.00	-10.43	Average



SDR_10M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

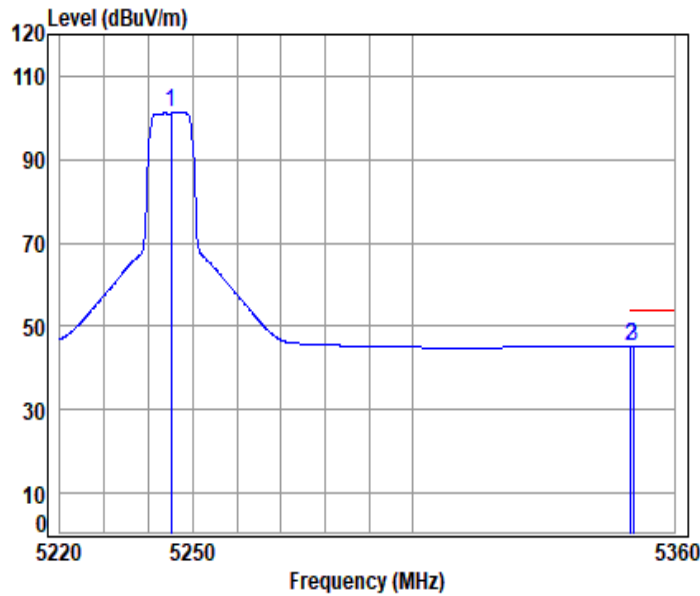
Mode : 5245 Band edge

: 5.1G SRD 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	99.35	111.45	68.20	43.25	peak
2	5350.020	10.45	32.80	30.76	46.49	58.98	74.00	-15.02	peak
3	5356.171	10.47	32.80	30.76	47.06	59.57	74.00	-14.43	peak



SDR_10M_Vertical-AVG-H



Condition: 3m VERTICAL

Job No : 00492AT

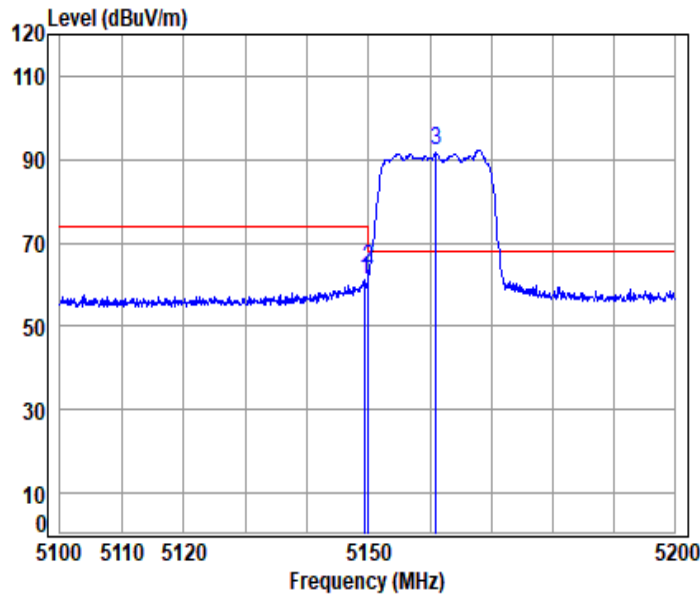
Mode : 5245 Band edge

: 5.1G SRD 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	89.08	101.18	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.80	45.29	54.00	-8.71	Average
3 pp	5350.646	10.45	32.80	30.76	32.80	45.29	54.00	-8.71	Average



SDR_20M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

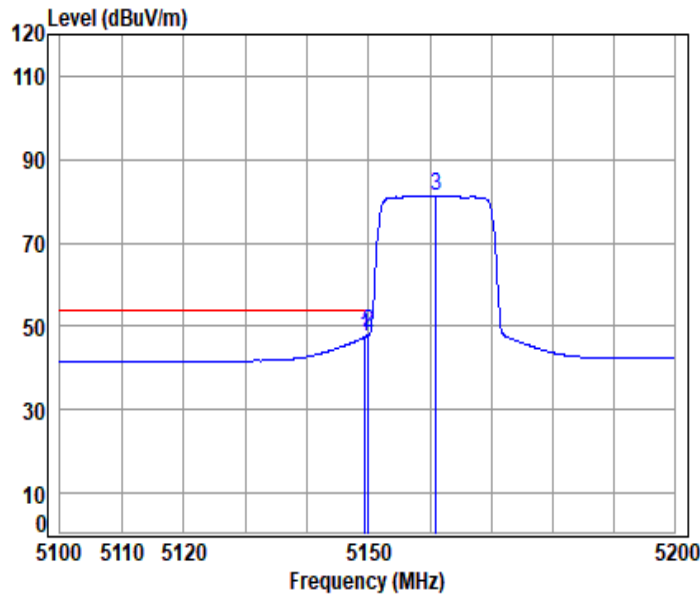
Mode : 5161 Band edge

: 5.1G SRD 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	49.38	61.08	74.00	-12.92	peak
2	5149.980	10.14	32.40	30.84	52.29	63.99	74.00	-10.01	peak
3 pp	5161.000	10.18	32.42	30.84	80.42	92.18	68.20	23.98	peak



SDR_20M_Horizontal-AVG-L



Condition: 3m HORIZONTAL

Job No : 00492AT

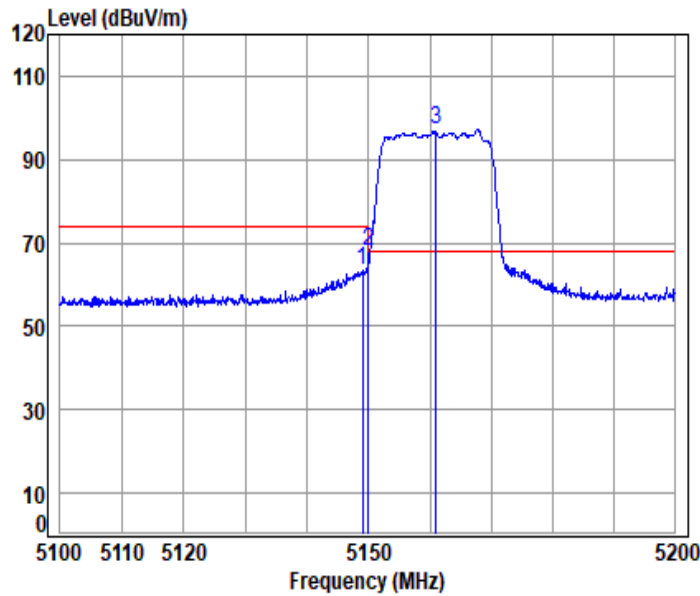
Mode : 5161 Band edge

: 5.1G SRD 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	35.79	47.49	54.00	-6.51	Average
2 pp	5149.980	10.14	32.40	30.84	36.85	48.55	54.00	-5.45	Average
3	5161.000	10.18	32.42	30.84	69.36	81.12	-----	-----	Average



SDR_20M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

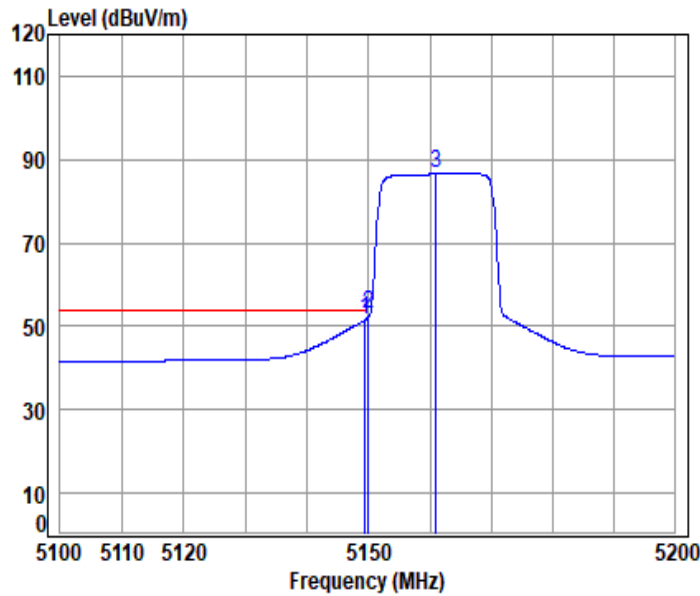
Mode : 5161 Band edge

: 5.1G SRD 20M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	10.14	32.40	30.84	51.55	63.25	74.00	-10.75 peak
2	5149.980	10.14	32.40	30.84	56.18	67.88	74.00	-6.12 peak
3 pp	5161.000	10.18	32.42	30.84	85.45	97.21	68.20	29.01 peak



SDR_20M_Vertical-AVG-L



Condition: 3m VERTICAL

Job No : 00492AT

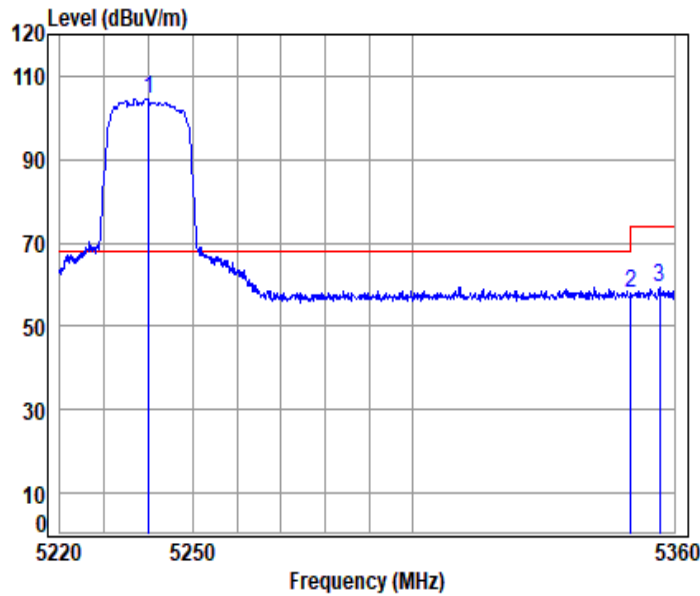
Mode : 5161 Band edge

: 5.1G SRD 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	39.91	51.61	54.00	-2.39	Average
2 pp	5149.980	10.14	32.40	30.84	41.21	52.91	54.00	-1.09	Average
3	5161.000	10.18	32.42	30.84	75.16	86.92	-----	-----	Average



SDR_20M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

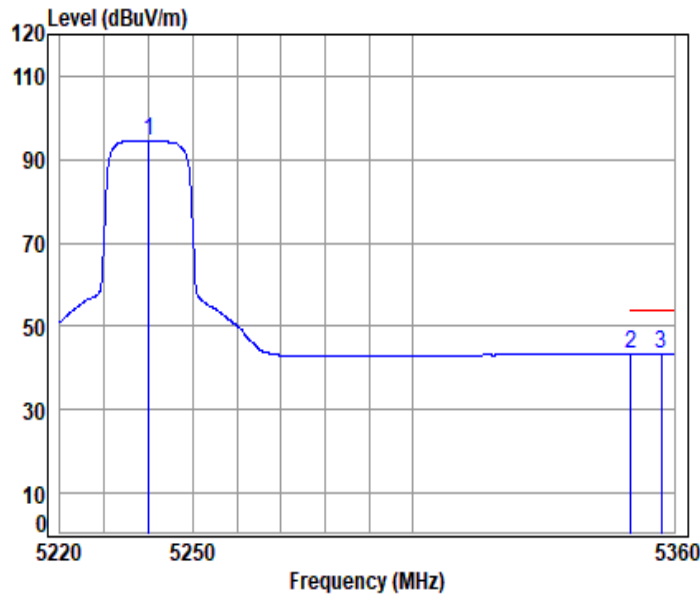
Mode : 5240 Band edge

: 5.1G SRD 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	92.39	104.48	68.20	36.28	peak
2	5350.020	10.45	32.80	30.76	45.42	57.91	74.00	-16.09	peak
3	5356.596	10.47	32.80	30.76	46.82	59.33	74.00	-14.67	peak



SDR_20M_Horizontal-AVG-H



Condition: 3m HORIZONTAL

Job No : 00492AT

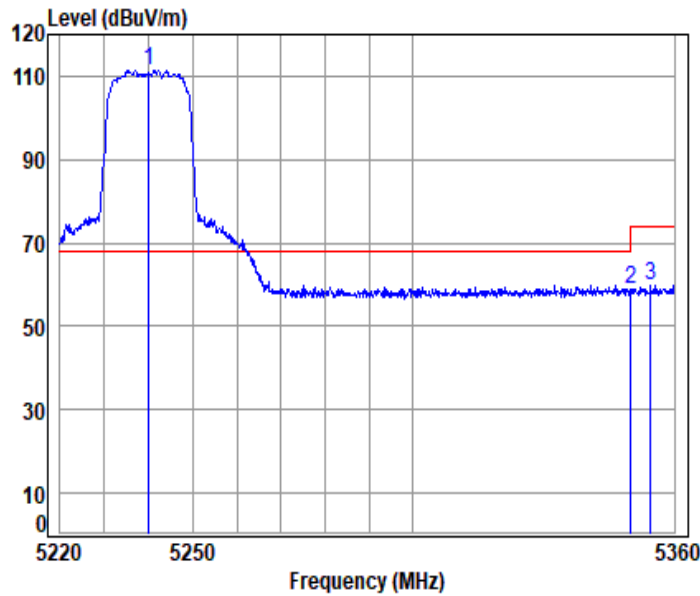
Mode : 5240 Band edge

: 5.1G SRD 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	82.46	94.55	-----	-----	Average
2	5350.020	10.45	32.80	30.76	30.79	43.28	54.00	-10.72	Average
3	pp 5357.022	10.47	32.80	30.76	30.91	43.42	54.00	-10.58	Average



SDR_20M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

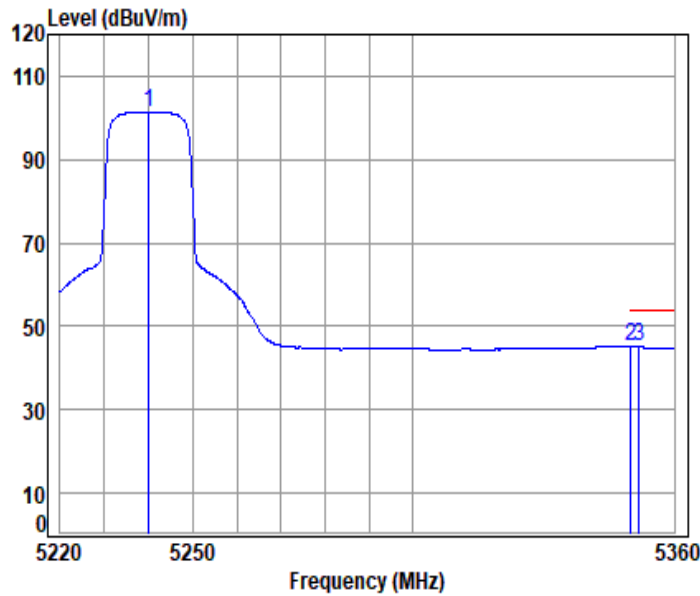
Mode : 5240 Band edge

: 5.1G SRD 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	
pp 5240.000	10.31	32.58	30.80	99.45	111.54	68.20	43.34	peak
5350.020	10.45	32.80	30.76	46.33	58.82	74.00	-15.18	peak
5354.612	10.47	32.80	30.76	47.10	59.61	74.00	-14.39	peak



SDR_20M_Vertical-AVG-H



Condition: 3m VERTICAL

Job No : 00492AT

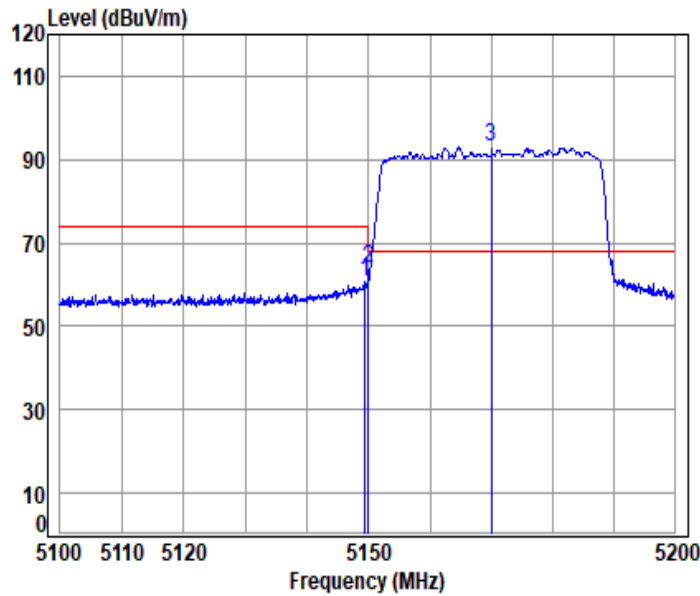
Mode : 5240 Band edge

: 5.1G SRD 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	89.21	101.30	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.47	44.96	54.00	-9.04	Average
3 pp	5351.920	10.46	32.80	30.76	32.48	44.98	54.00	-9.02	Average



SDR_40M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

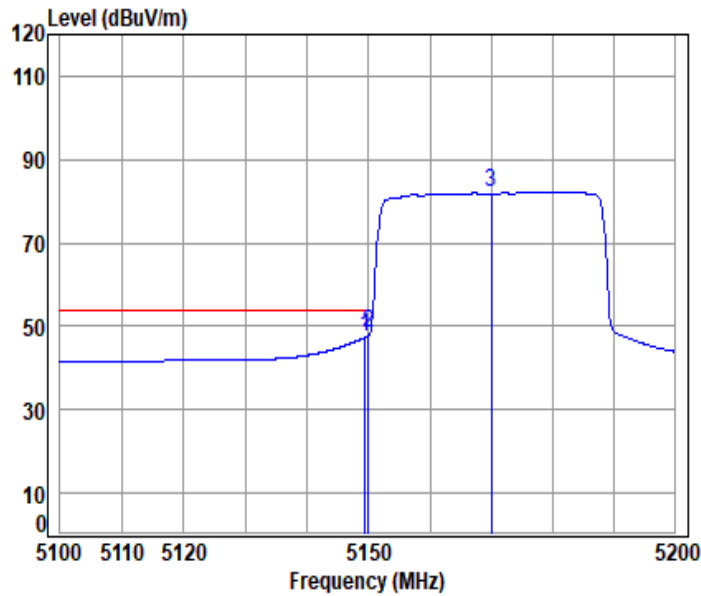
Mode : 5170 Band edge

: 5.1G SRD 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	5149.458	10.14	32.40	30.84	48.84	60.54	74.00	-13.46	peak
2	5149.980	10.14	32.40	30.84	52.08	63.78	74.00	-10.22	peak
3	pp 5170.000	10.22	32.44	30.83	81.05	92.88	68.20	24.68	peak



SDR_40M_Horizontal-AVG-L



Condition: 3m HORIZONTAL

Job No : 00492AT

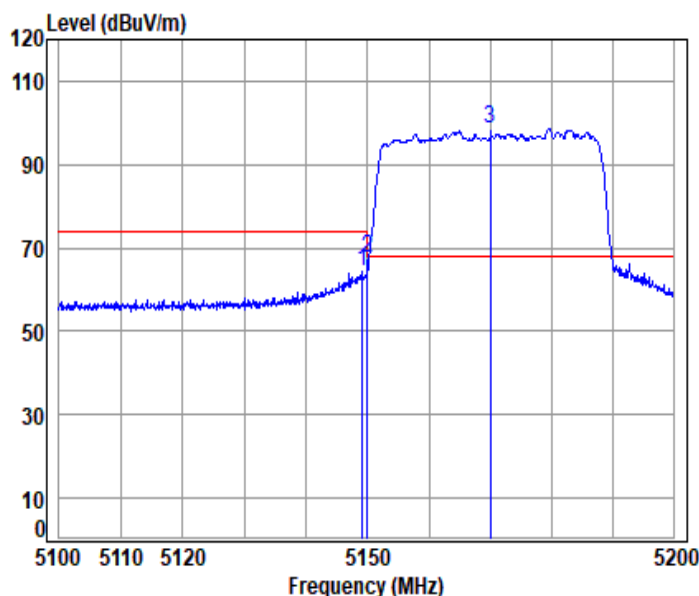
Mode : 5170 Band edge

: 5.1G SRD 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	10.14	32.40	30.84	35.62	47.32	54.00	-6.68 Average
2 pp	5149.980	10.14	32.40	30.84	36.77	48.47	54.00	-5.53 Average
3	5170.000	10.22	32.44	30.83	70.51	82.34	-----	----- Average



SDR_40M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

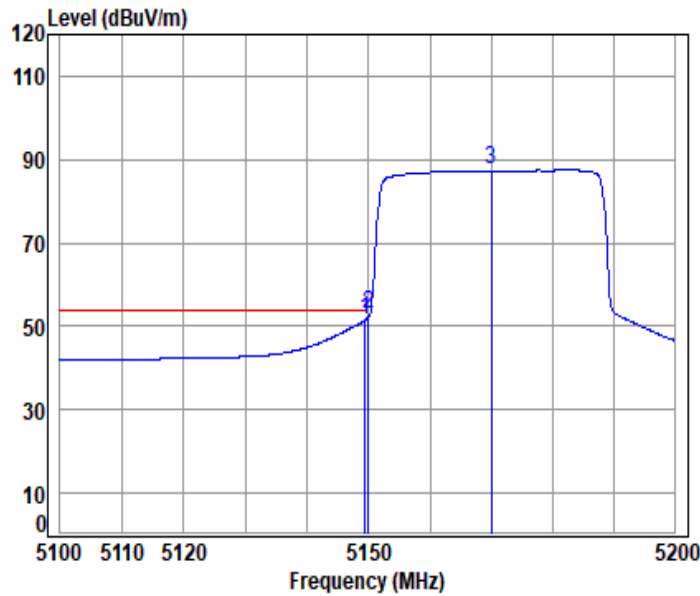
Mode : 5170 Band edge

: 5.1G SRD 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	5149.157	10.14	32.40	30.84	52.44	64.14	74.00	-9.86	peak
2	5149.980	10.14	32.40	30.84	55.80	67.50	74.00	-6.50	peak
3 pp	5170.000	10.22	32.44	30.83	86.77	98.60	68.20	30.40	peak



SDR_40M_Vertical-AVG-L



Condition: 3m VERTICAL

Job No : 00492AT

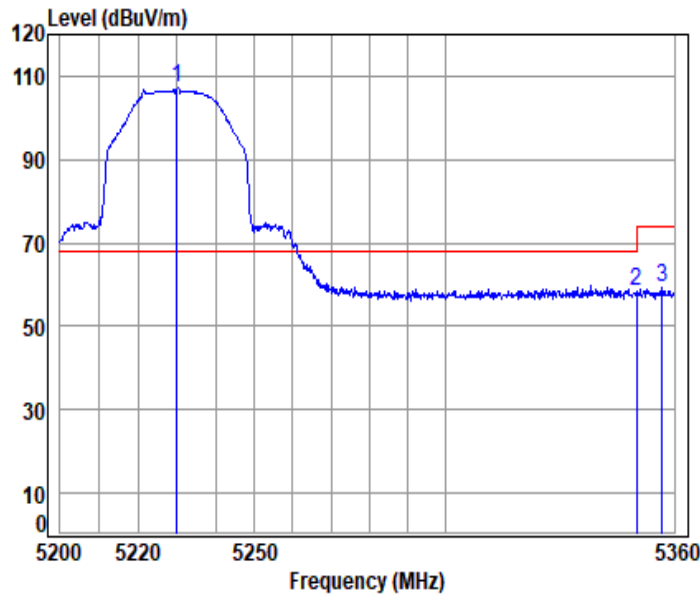
Mode : 5170 Band edge

: 5.1G SRD 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	5149.458	10.14	32.40	30.84	39.78	51.48	54.00	-2.52	Average
2 pp	5149.980	10.14	32.40	30.84	41.21	52.91	54.00	-1.09	Average
3	5170.000	10.22	32.44	30.83	75.74	87.57	-----	-----	Average



SDR_40M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

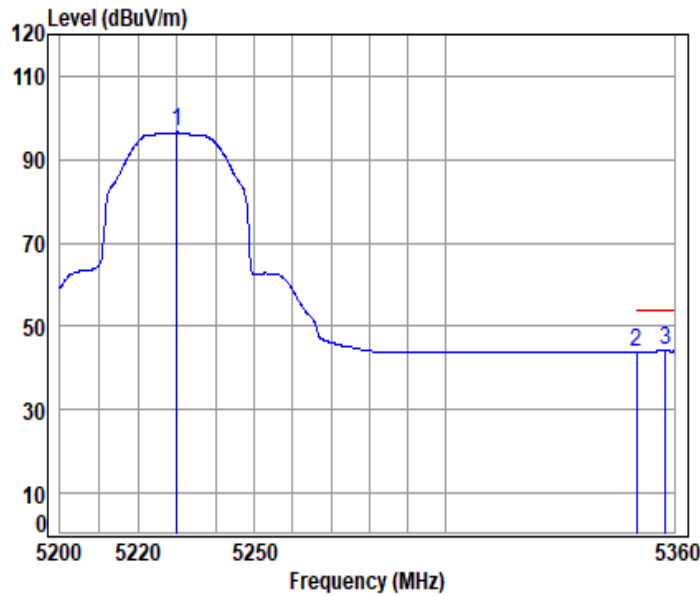
Mode : 5230 Band edge

: 5.1G SRD 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	95.18	107.24	68.20	39.04	peak
2	5350.020	10.45	32.80	30.76	45.80	58.29	74.00	-15.71	peak
3	5356.915	10.47	32.80	30.76	46.99	59.50	74.00	-14.50	peak



SDR_40M_Horizontal-AVG-H



Condition: 3m HORIZONTAL

Job No : 00492AT

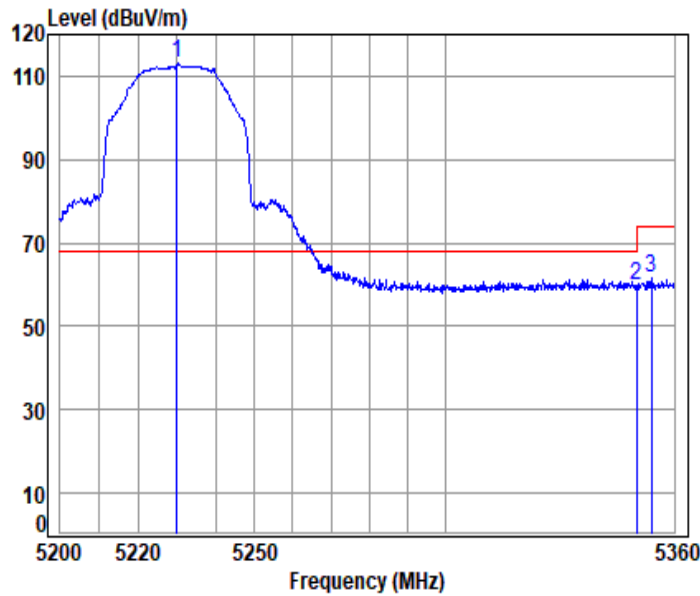
Mode : 5230 Band edge

: 5.1G SRD 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	84.46	96.52	-----	-----	Average
2	5350.020	10.45	32.80	30.76	31.47	43.96	54.00	-10.04	Average
3	pp 5357.727	10.48	32.80	30.76	31.57	44.09	54.00	-9.91	Average



SDR_40M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

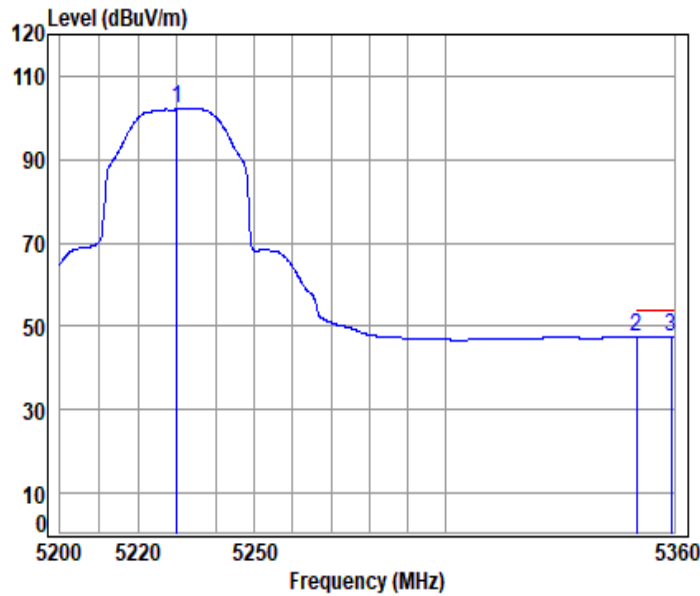
Mode : 5230 Band edge

: 5.1G SRD 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	101.00	113.06	68.20	44.86	peak
2	5350.020	10.45	32.80	30.76	47.49	59.98	74.00	-14.02	peak
3	5353.993	10.46	32.80	30.76	49.21	61.71	74.00	-12.29	peak



SDR_40M_Vertical-AVG-H



Condition: 3m VERTICAL

Job No : 00492AT

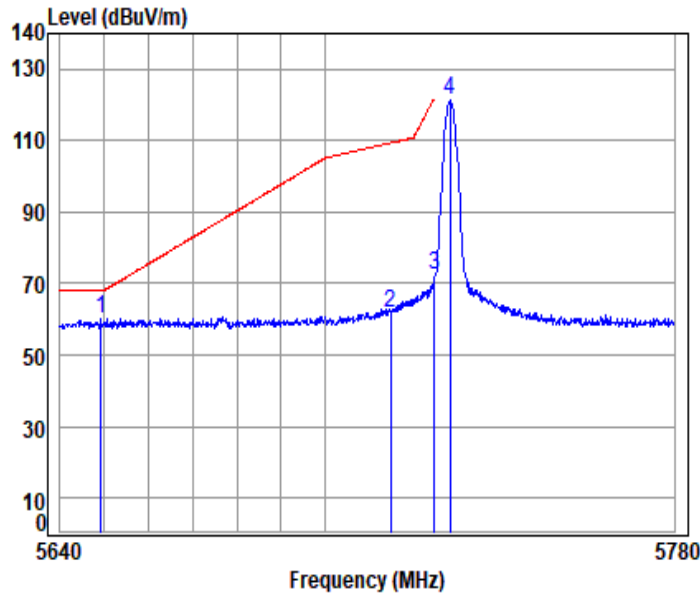
Mode : 5230 Band edge

: 5.1G SRD 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	90.16	102.22	-----	-----	Average
2	5350.020	10.45	32.80	30.76	34.78	47.27	54.00	-6.73	Average
3	pp 5359.188	10.48	32.80	30.76	34.96	47.48	54.00	-6.52	Average



SDR_1.4M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

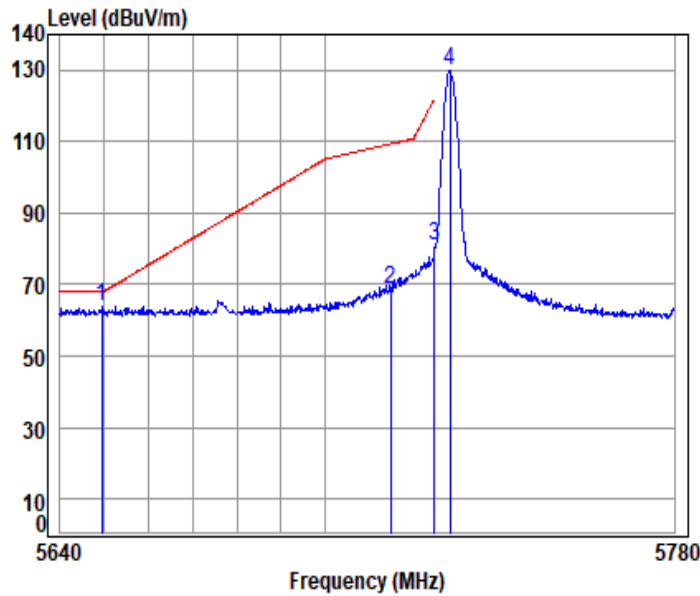
Mode : 5728.5 Band edge

: 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 5649.135	10.48	33.10	30.64	47.07	60.01	68.20	-8.19 peak
2	5715.000	10.63	33.23	30.61	48.73	61.98	109.40	-47.42 peak
3	5725.000	10.68	33.25	30.61	59.29	72.61	122.20	-49.59 peak
4	5728.500	10.69	33.26	30.61	107.86	121.20	-----	----- peak



SDR_1.4M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

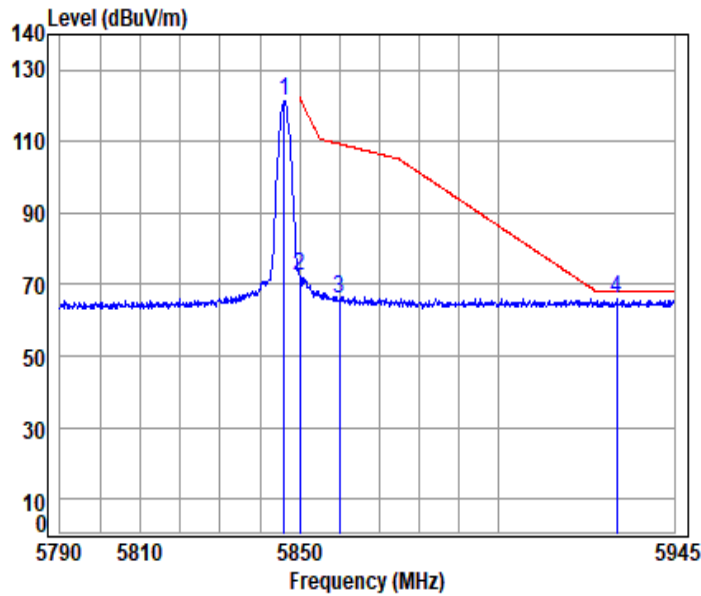
Mode : 5728.5 Band edge

: 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	
p 5649.412	10.48	33.10	30.64	50.99	63.93	68.20	-4.27	peak
5715.000	10.63	33.23	30.61	55.20	68.45	109.40	-40.95	peak
5725.000	10.68	33.25	30.61	67.53	80.85	122.20	-41.35	peak
5728.500	10.69	33.26	30.61	116.54	129.88	-----	-----	peak



SDR_1.4M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

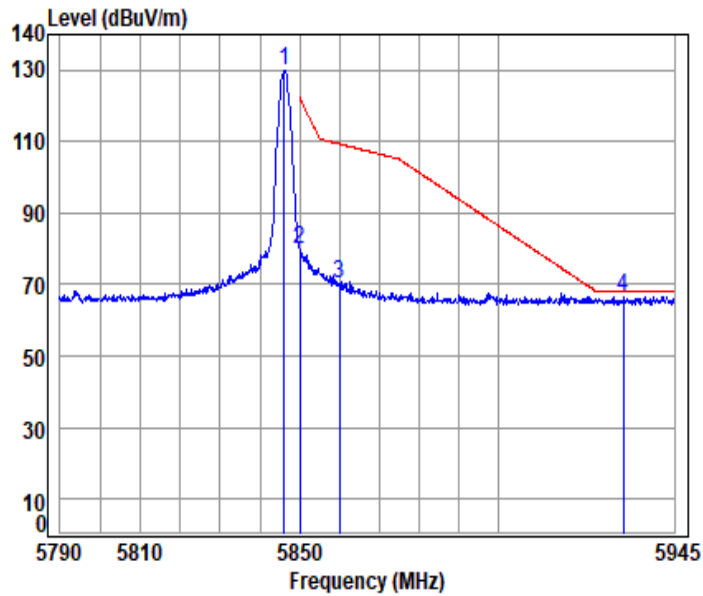
Mode : 5846.12 Band edge

: 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	107.56	121.54	-----	-----	peak
2	5850.000	10.95	33.60	30.56	58.55	72.54	122.20	-49.66	peak
3	5860.000	10.94	33.58	30.56	52.22	66.18	109.40	-43.22	peak
4 pp	5930.412	10.87	33.56	30.53	51.91	65.81	68.20	-2.39	peak



SDR_1.4M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

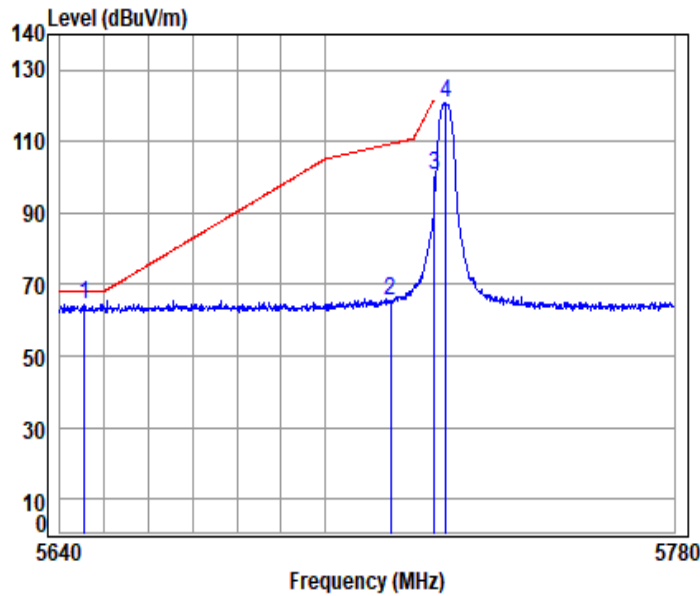
Mode : 5846.12 Band edge

: 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	116.17	130.15	-----	-----	peak
2	5850.000	10.95	33.60	30.56	65.65	79.64	122.20	-42.56	peak
3	5860.000	10.94	33.58	30.56	56.37	70.33	109.40	-39.07	peak
4 pp	5931.979	10.86	33.56	30.53	52.62	66.51	68.20	-1.69	peak



SDR_3M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

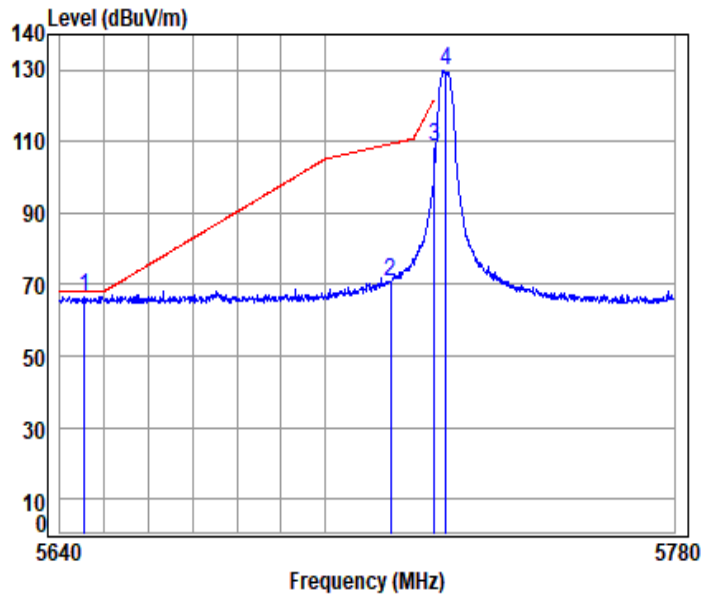
Mode : 5727.5 Band edge

: 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	
p 5645.534	10.48	33.09	30.64	51.52	64.45	68.20	-3.75	peak
5715.000	10.63	33.23	30.61	52.07	65.32	109.40	-44.08	peak
5725.000	10.68	33.25	30.61	87.23	100.55	122.20	-21.65	peak
5727.500	10.69	33.26	30.61	107.27	120.61	-----	-----	peak



SDR_3M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

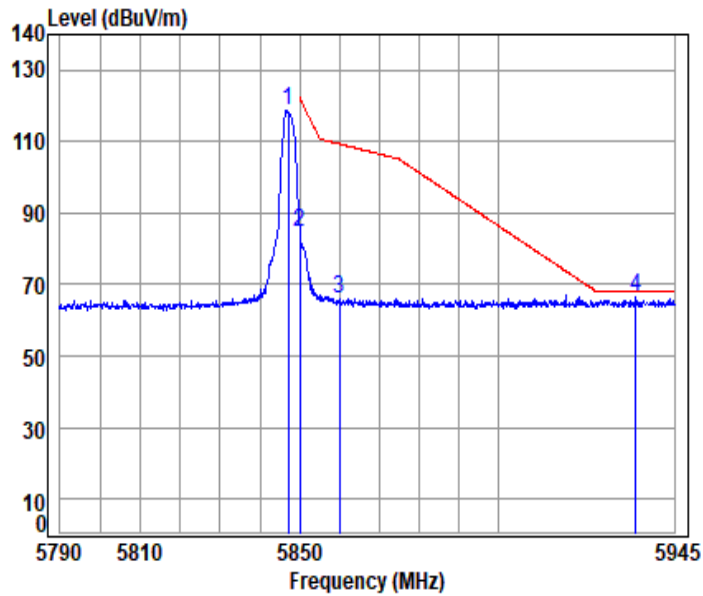
Mode : 5727.5 Band edge

: 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	
5645.534	10.48	33.09	30.64	53.84	66.77	68.20	-1.43	peak
5715.000	10.63	33.23	30.61	57.30	70.55	109.40	-38.85	peak
5725.000	10.68	33.25	30.61	95.01	108.33	122.20	-13.87	peak
5727.500	10.69	33.26	30.61	116.44	129.78	-----	-----	peak



SDR_3M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

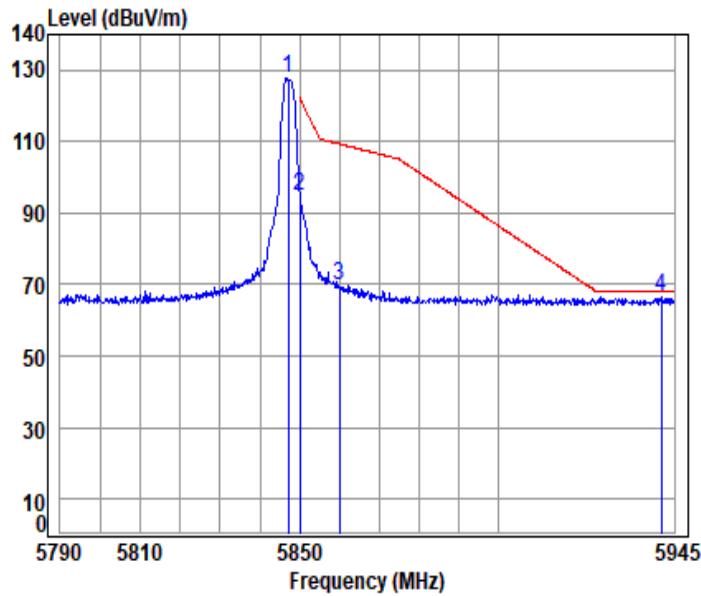
Mode : 5847.2 Band edge

: 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	104.57	118.56	-----	-----	peak
2	5850.000	10.95	33.60	30.56	70.79	84.78	122.20	-37.42	peak
3	5860.000	10.94	33.58	30.56	51.84	65.80	109.40	-43.60	peak
4 pp	5935.271	10.86	33.57	30.53	52.84	66.74	68.20	-1.46	peak



SDR_3M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

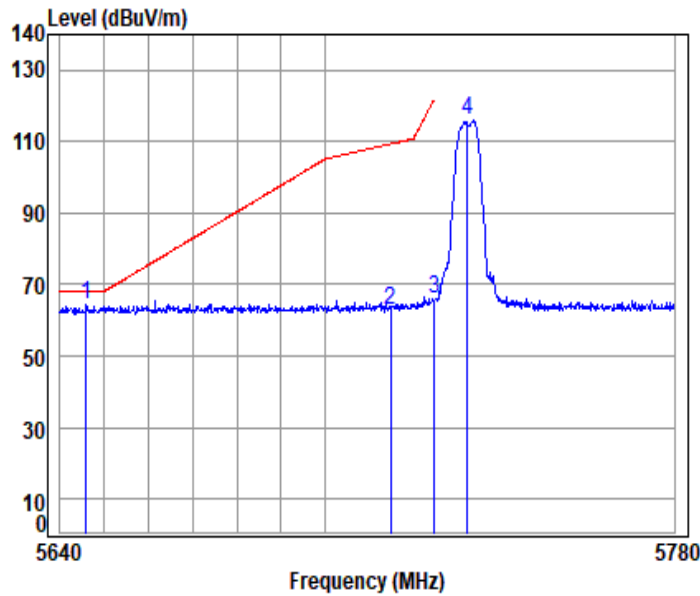
Mode : 5847.2 Band edge

: 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	113.86	127.85	-----	-----	peak
2	5850.000	10.95	33.60	30.56	80.59	94.58	122.20	-27.62	peak
3	5860.000	10.94	33.58	30.56	55.80	69.76	109.40	-39.64	peak
4 pp	5941.703	10.86	33.58	30.52	52.65	66.57	68.20	-1.63	peak



SDR_5M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

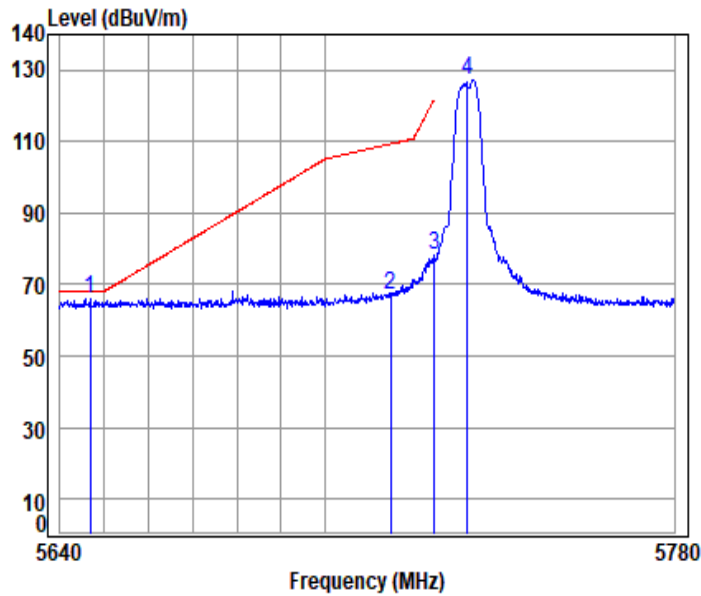
Mode : 5732.5 Band edge

: 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	
5645.811	10.48	33.09	30.64	51.46	64.39	68.20	-3.81	peak
5715.000	10.63	33.23	30.61	49.78	63.03	109.40	-46.37	peak
5725.000	10.68	33.25	30.61	52.44	65.76	122.20	-56.44	peak
5732.500	10.71	33.26	30.61	102.47	115.83	-----	-----	peak



SDR_5M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

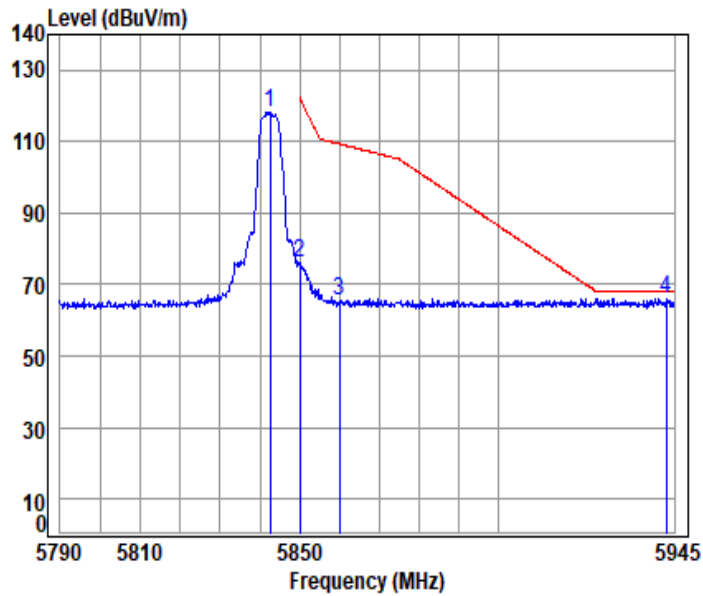
Mode : 5732.5 Band edge

: 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 5646.780	10.48	33.09	30.64	53.15	66.08	68.20	-2.12	peak
2	5715.000	10.63	33.23	30.61	53.71	66.96	109.40	-42.44	peak
3	5725.000	10.68	33.25	30.61	64.78	78.10	122.20	-44.10	peak
4	5732.500	10.71	33.26	30.61	113.90	127.26	-----	-----	peak



SDR_5M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

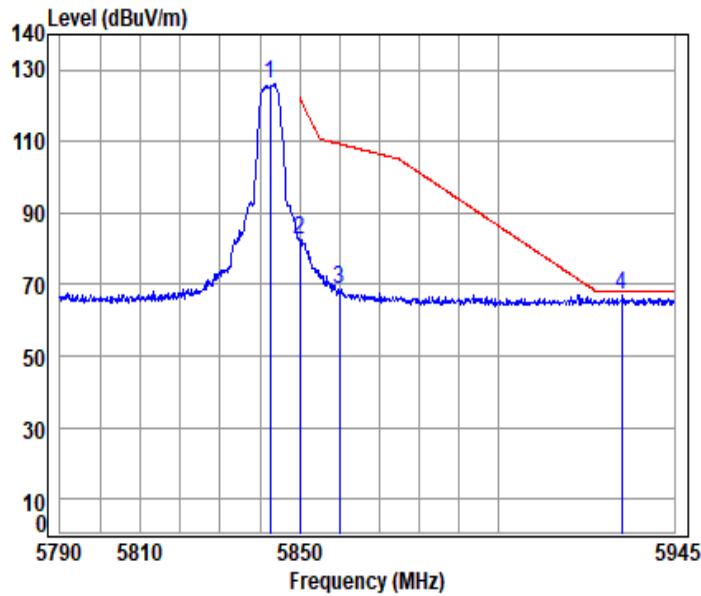
Mode : 5842.5 Band edge

: 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	104.08	118.05	-----	-----	peak
2	5850.000	10.95	33.60	30.56	62.04	76.03	122.20	-46.17	peak
3	5860.000	10.94	33.58	30.56	51.35	65.31	109.40	-44.09	peak
4 pp	5942.958	10.86	33.59	30.52	52.25	66.18	68.20	-2.02	peak



SDR_5M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

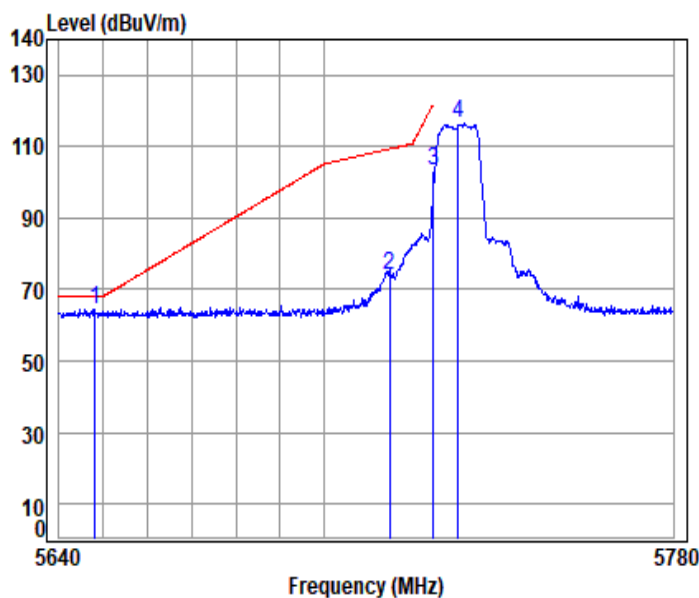
Mode : 5842.5 Band edge

: 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	112.28	126.25	-----	-----	peak
2	5850.000	10.95	33.60	30.56	68.47	82.46	122.20	-39.74	peak
3	5860.000	10.94	33.58	30.56	54.81	68.77	109.40	-40.63	peak
4 pp	5931.665	10.86	33.56	30.53	53.22	67.11	68.20	-1.09	peak



SDR_10M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

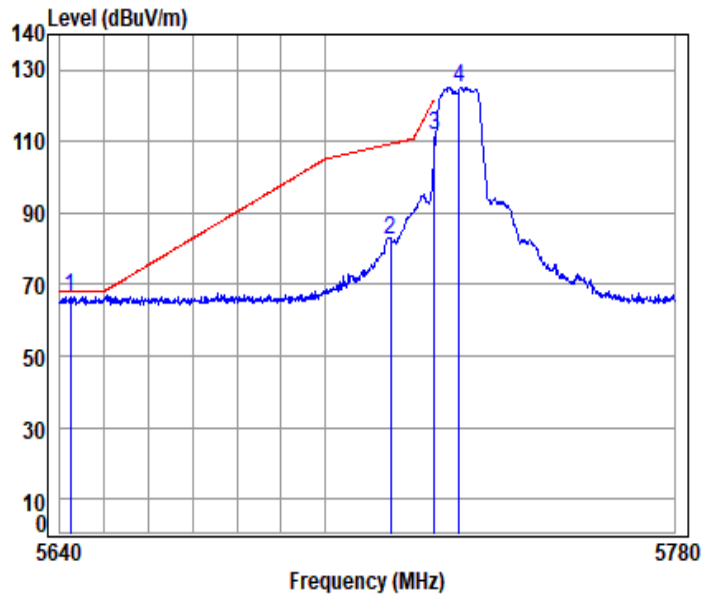
Mode : 5730.5 Band edge

: 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 5648.026	10.48	33.10	30.64	51.62	64.56	68.20	-3.64	peak
2 5715.000	10.63	33.23	30.61	60.96	74.21	109.40	-35.19	peak
3 5725.000	10.68	33.25	30.61	89.98	103.30	122.20	-18.90	peak
4 5730.500	10.70	33.26	30.61	103.03	116.38	-----	-----	peak



SDR_10M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

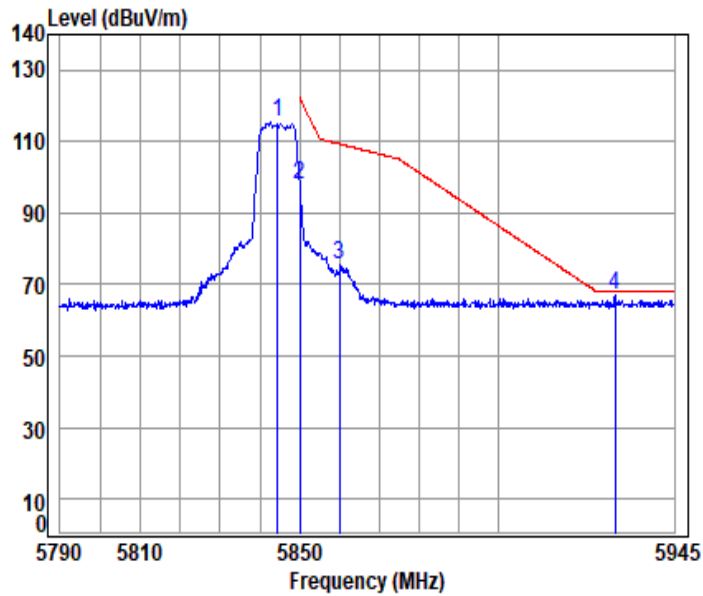
Mode : 5730.5 Band edge

: 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	
p 5642.352	10.47	33.08	30.64	53.77	66.68	68.20	-1.52	peak
5715.000	10.63	33.23	30.61	69.34	82.59	109.40	-26.81	peak
5725.000	10.68	33.25	30.61	98.69	112.01	122.20	-10.19	peak
5730.500	10.70	33.26	30.61	111.76	125.11	-----	-----	peak



SDR_10M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

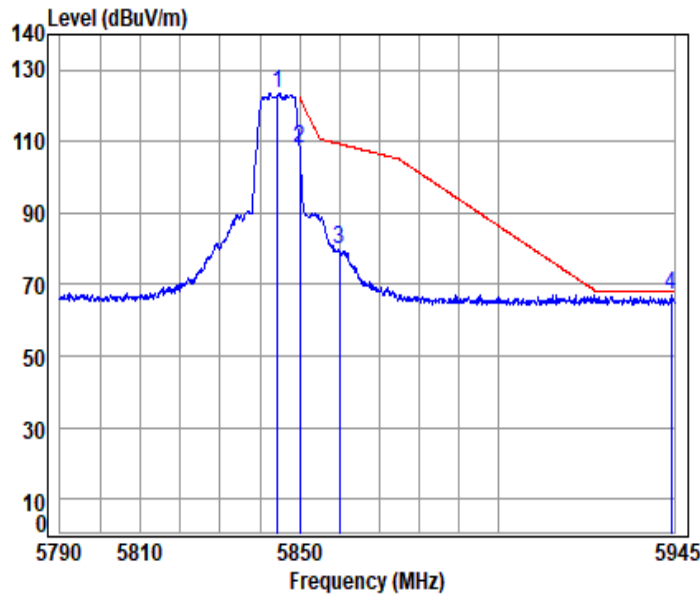
Mode : 5844.5 Band edge

: 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	101.33	115.31	-----	-----	peak
2	5850.000	10.95	33.60	30.56	84.07	98.06	122.20	-24.14	peak
3	5860.000	10.94	33.58	30.56	61.49	75.45	109.40	-33.95	peak
4 pp	5929.942	10.87	33.56	30.53	53.01	66.91	68.20	-1.29	peak



SDR_10M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

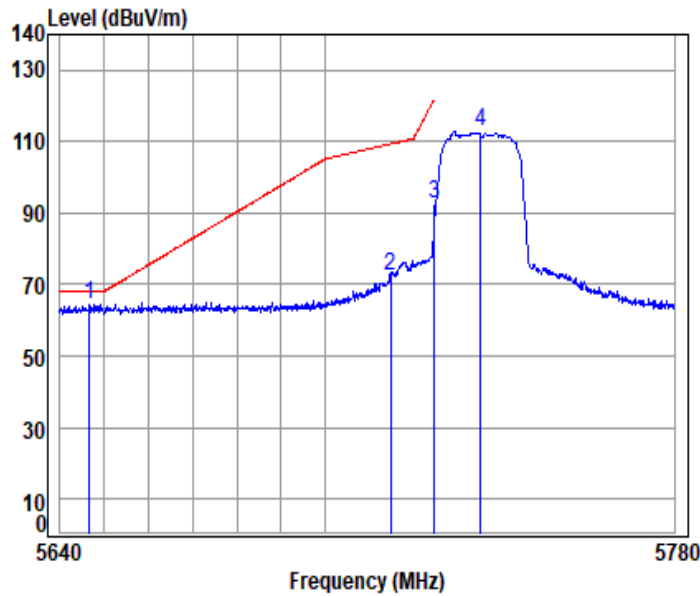
Mode : 5844.5 Band edge

: 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	109.32	123.30	-----	-----	peak
2	5850.000	10.95	33.60	30.56	94.11	108.10	122.20	-14.10	peak
3	5860.000	10.94	33.58	30.56	65.98	79.94	109.40	-29.46	peak
4 pp	5944.215	10.85	33.59	30.52	53.05	66.97	68.20	-1.23	peak



SDR_20M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

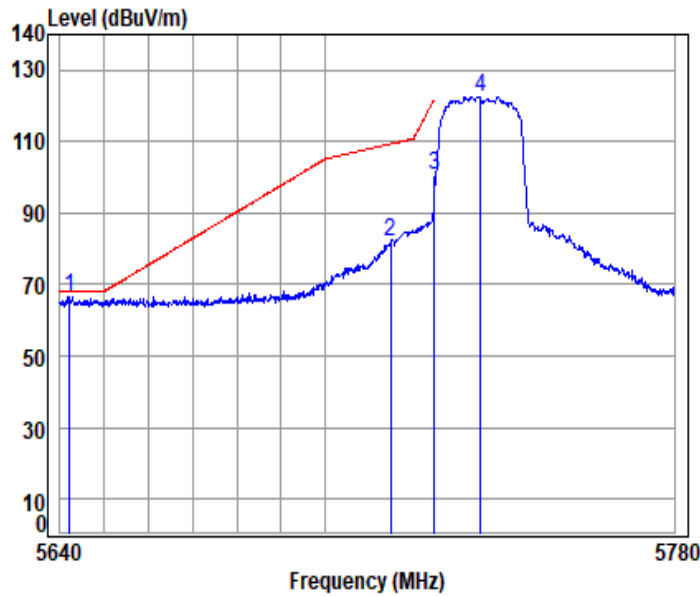
Mode : 5735.5 Band edge

: 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 5646.642	10.48	33.09	30.64	51.75	64.68	68.20	-3.52	peak
2 5715.000	10.63	33.23	30.61	59.41	72.66	109.40	-36.74	peak
3 5725.000	10.68	33.25	30.61	79.26	92.58	122.20	-29.62	peak
4 5735.500	10.72	33.27	30.61	99.42	112.80	-----	-----	peak



SDR_20M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

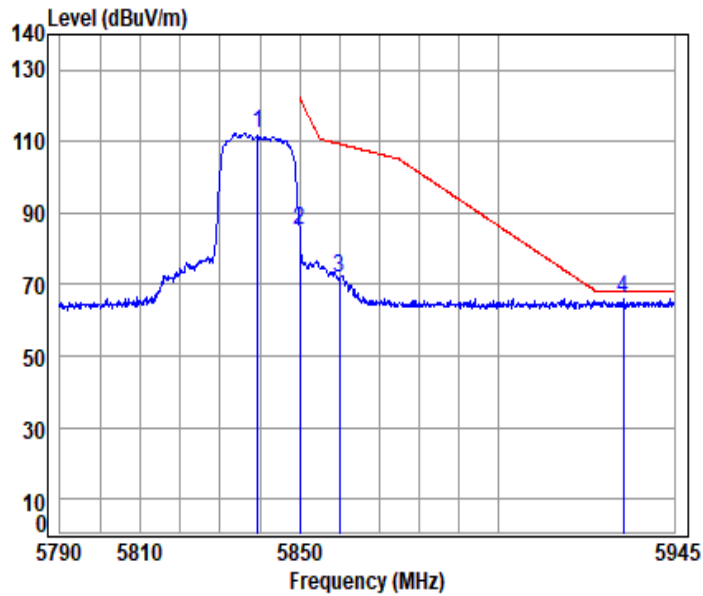
Mode : 5735.5 Band edge

: 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 5642.213	10.47	33.08	30.64	53.53	66.44	68.20	-1.76	peak
2 5715.000	10.63	33.23	30.61	68.90	82.15	109.40	-27.25	peak
3 5725.000	10.68	33.25	30.61	87.10	100.42	122.20	-21.78	peak
4 5735.500	10.72	33.27	30.61	108.96	122.34	-----	-----	peak



SDR_20M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

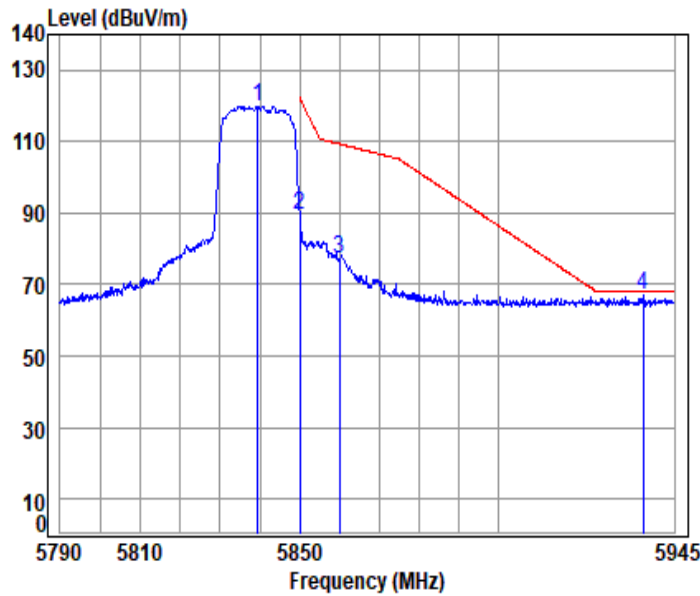
Mode : 5839.5 Band edge

: 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	98.53	112.50	-----	-----	peak
2	5850.000	10.95	33.60	30.56	71.04	85.03	122.20	-37.17	peak
3	5860.000	10.94	33.58	30.56	58.14	72.10	109.40	-37.30	peak
4 pp	5931.979	10.86	33.56	30.53	52.04	65.93	68.20	-2.27	peak



SDR_20M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

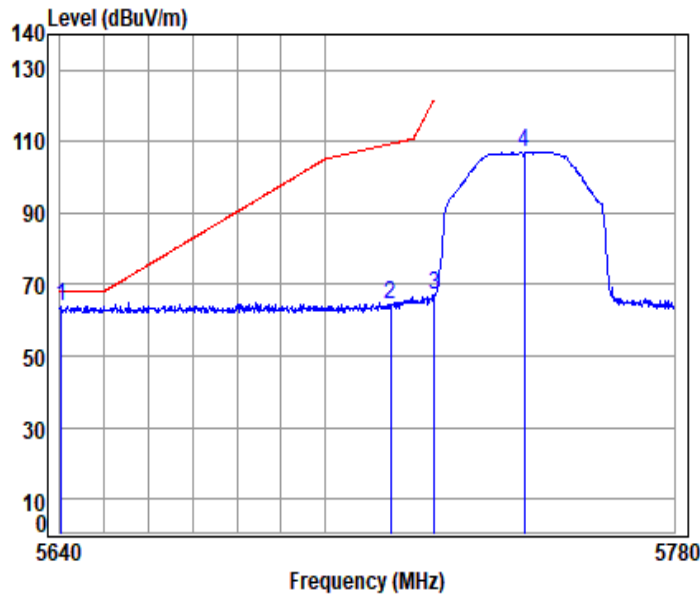
Mode : 5839.5 Band edge

: 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	105.99	119.96	-----	-----	peak
2	5850.000	10.95	33.60	30.56	75.64	89.63	122.20	-32.57	peak
3	5860.000	10.94	33.58	30.56	63.46	77.42	109.40	-31.98	peak
4 pp	5936.996	10.86	33.57	30.53	52.99	66.89	68.20	-1.31	peak



SDR_40M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

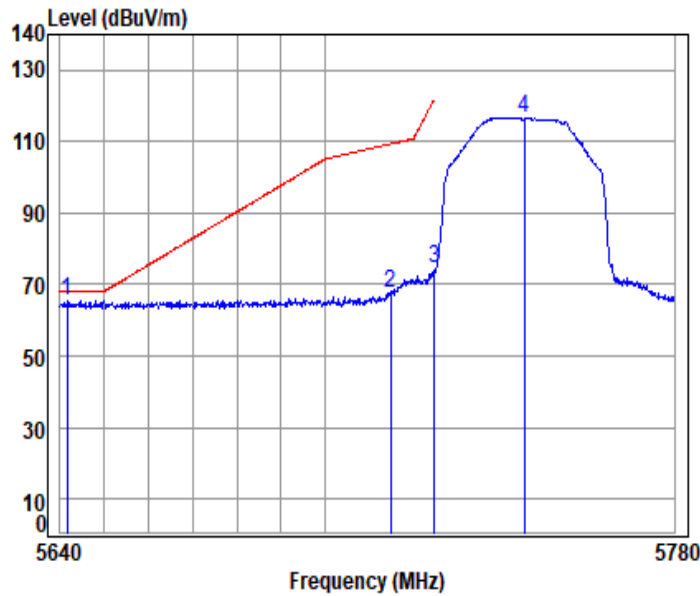
Mode : 5745.5 Band edge

: 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	
5640.276	10.47	33.08	30.64	51.17	64.08	68.20	-4.12	peak
5715.000	10.63	33.23	30.61	51.00	64.25	109.40	-45.15	peak
5725.000	10.68	33.25	30.61	53.80	67.12	122.20	-55.08	peak
5745.500	10.77	33.29	30.60	93.80	107.26	-----	-----	peak



SDR_40M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

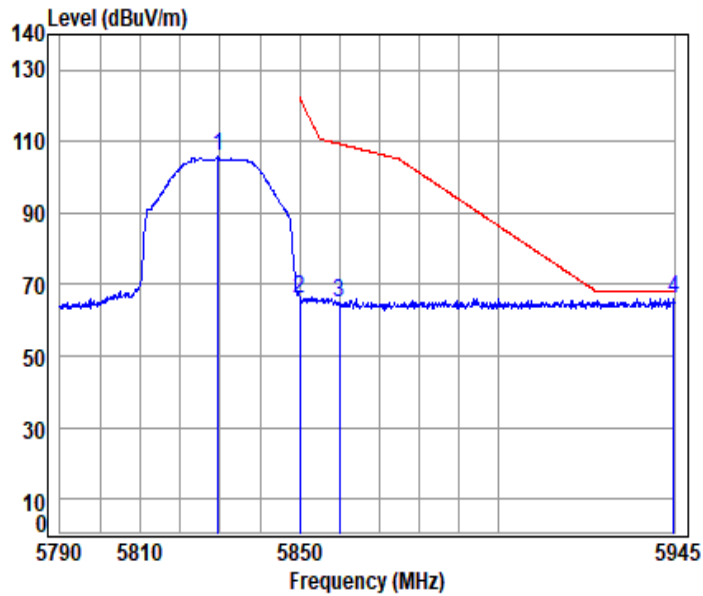
Mode : 5745.5 Band edge

: 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 5641.521	10.47	33.08	30.64	52.64	65.55	68.20	-2.65	peak
2 5715.000	10.63	33.23	30.61	54.09	67.34	109.40	-42.06	peak
3 5725.000	10.68	33.25	30.61	61.43	74.75	122.20	-47.45	peak
4 5745.500	10.77	33.29	30.60	103.36	116.82	-----	-----	peak



SDR_40M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

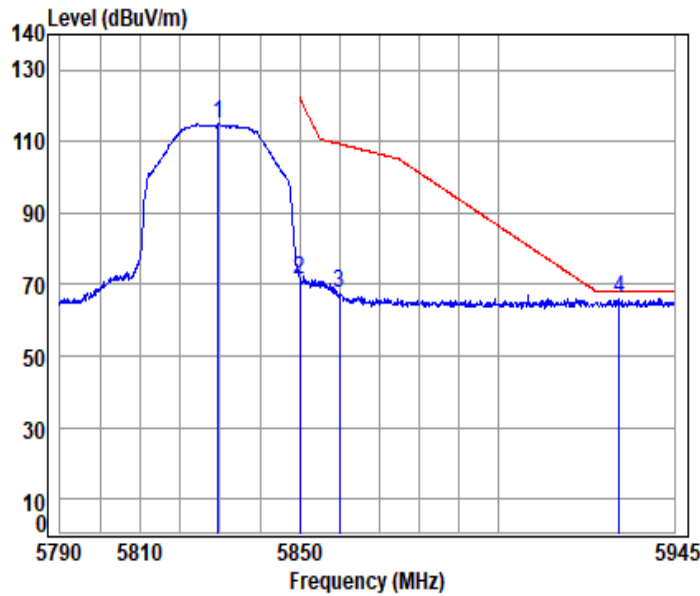
Mode : 5829.5 Band edge

: 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	91.77	105.70	-----	-----	peak
2	5850.000	10.95	33.60	30.56	51.93	65.92	122.20	-56.28	peak
3	5860.000	10.94	33.58	30.56	51.21	65.17	109.40	-44.23	peak
4 pp	5944.843	10.85	33.59	30.52	52.02	65.94	68.20	-2.26	peak



SDR_40M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

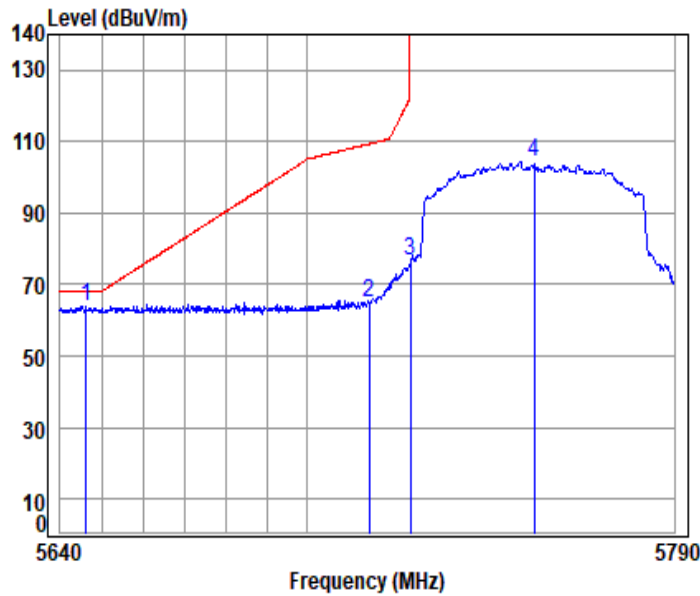
Mode : 5829.5 Band edge

: 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	101.05	114.98	-----	-----	peak
2	5850.000	10.95	33.60	30.56	57.54	71.53	122.20	-50.67	peak
3	5860.000	10.94	33.58	30.56	53.90	67.86	109.40	-41.54	peak
4 pp	5931.039	10.87	33.56	30.53	52.02	65.92	68.20	-2.28	peak



SDR_60M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

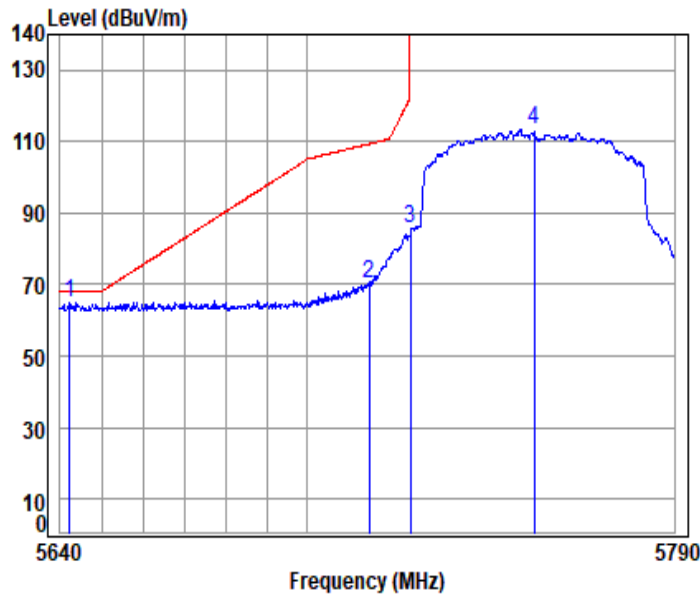
Mode : 5755.5 Band edge

: 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 5646.369	10.48	33.09	30.64	50.72	63.65	68.20	-4.55	peak
2	5715.000	10.63	33.23	30.61	51.69	64.94	109.40	-44.46	peak
3	5725.000	10.68	33.25	30.61	63.08	76.40	122.20	-45.80	peak
4	5755.500	10.82	33.31	30.60	90.68	104.21	-----	-----	peak



SDR_60M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

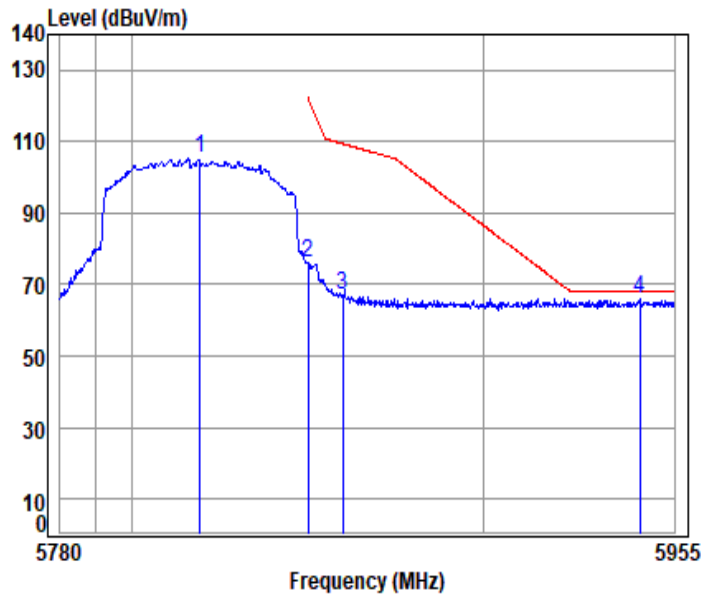
Mode : 5755.5 Band edge

: 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 5642.369	10.47	33.08	30.64	52.20	65.11	68.20	-3.09	peak
2	5715.000	10.63	33.23	30.61	56.99	70.24	109.40	-39.16	peak
3	5725.000	10.68	33.25	30.61	72.31	85.63	122.20	-36.57	peak
4	5755.500	10.82	33.31	30.60	99.60	113.13	-----	-----	peak



SDR_60M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

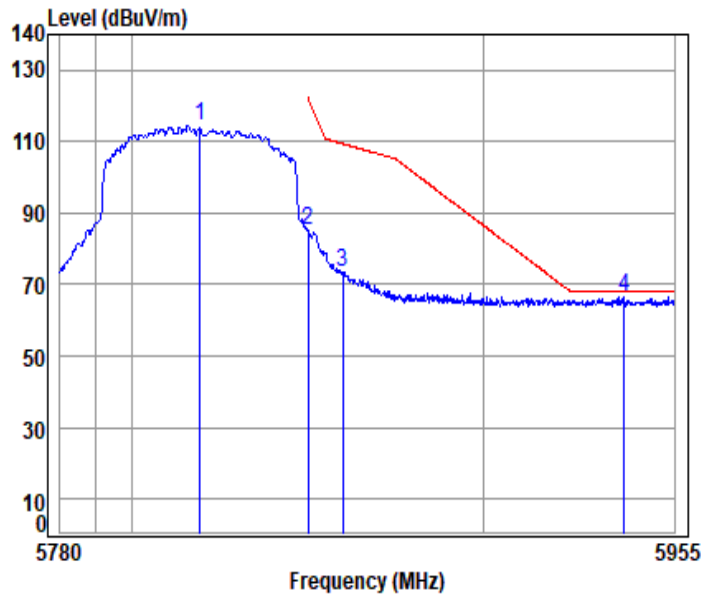
Mode : 5819.5 Band edge

: 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	91.31	105.21	-----	-----	peak
2	5850.000	10.95	33.60	30.56	62.05	76.04	122.20	-46.16	peak
3	5860.000	10.94	33.58	30.56	53.16	67.12	109.40	-42.28	peak
4 pp	5945.062	10.85	33.59	30.52	51.88	65.80	68.20	-2.40	peak



SDR_60M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

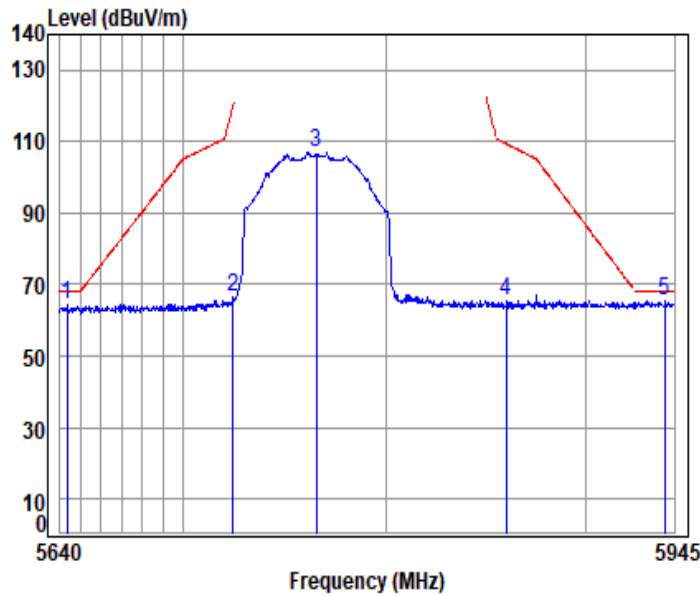
Mode : 5819.5 Band edge

: 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	100.45	114.35	-----	-----	peak
2	5850.000	10.95	33.60	30.56	71.14	85.13	122.20	-37.07	peak
3	5860.000	10.94	33.58	30.56	59.37	73.33	109.40	-36.07	peak
4 pp	5940.453	10.86	33.58	30.52	52.53	66.45	68.20	-1.75	peak



SDR_80M_Horizontal-Peak-L



Condition: 3m HORIZONTAL

Job No : 00492AT

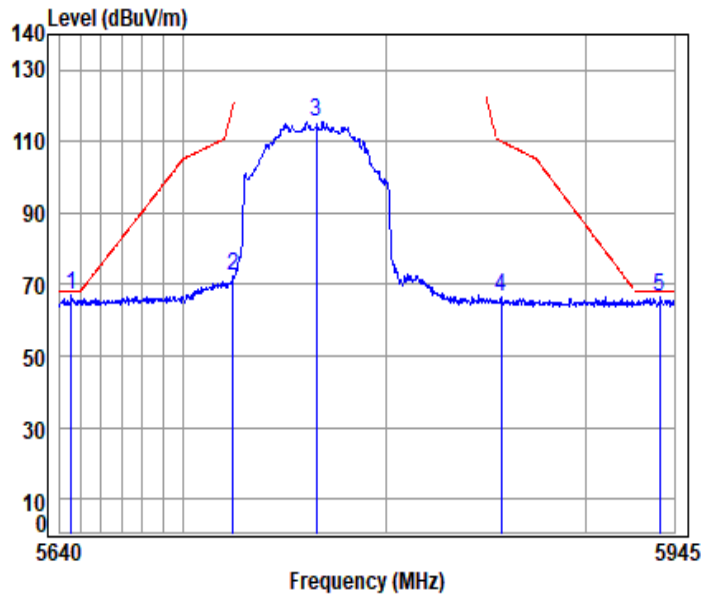
Mode : 5765.5 Band edge

: 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	5643.269	10.47	33.09	30.64	51.25	64.17	68.20	-4.03	peak
2	5724.088	10.67	33.25	30.61	53.19	66.50	120.12	-53.62	peak
3	5765.500	10.86	33.33	30.59	93.23	106.83	-----	-----	peak
4	5860.135	10.94	33.58	30.56	51.73	65.69	109.36	-43.67	peak
5 pp	5940.305	10.86	33.58	30.52	51.75	65.67	68.20	-2.53	peak



SDR_80M_Vertical-Peak-L



Condition: 3m VERTICAL

Job No : 00492AT

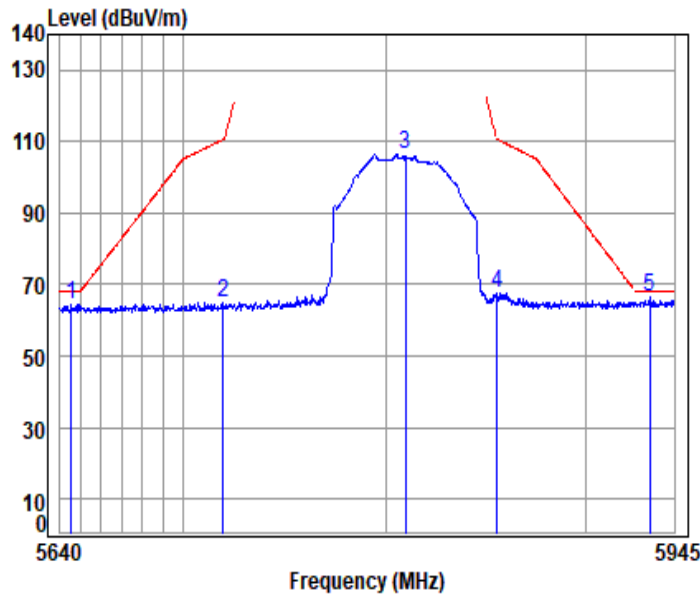
Mode : 5765.5 Band edge

: 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	pp 5645.349	10.48	33.09	30.64	54.08	67.01	68.20	-1.19	Peak
2	5724.088	10.67	33.25	30.61	58.89	72.20	120.12	-47.92	peak
3	5765.500	10.86	33.33	30.59	101.99	115.59	-----	-----	peak
4	5857.357	10.95	33.59	30.56	52.39	66.37	110.14	-43.77	peak
5	5937.803	10.86	33.58	30.52	52.43	66.35	68.20	-1.85	peak



SDR_80M_Horizontal-Peak-H



Condition: 3m HORIZONTAL

Job No : 00492AT

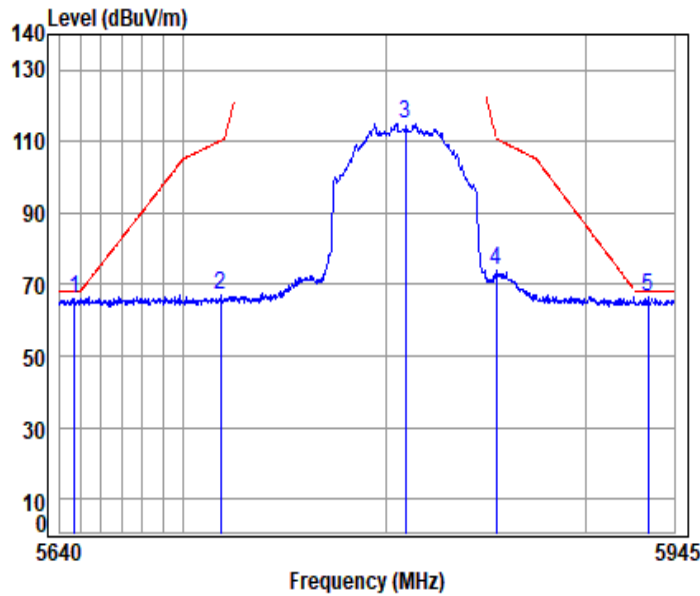
Mode : 5809.5 Band edge

: 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	5645.349	10.48	33.09	30.64	51.45	64.38	68.20	-3.82	peak
2	5719.267	10.65	33.24	30.61	51.66	64.94	110.60	-45.66	peak
3	5809.500	11.01	33.44	30.58	92.75	106.62	-----	-----	peak
4	5855.199	10.95	33.59	30.56	53.80	67.78	110.74	-42.96	peak
5 pp	5932.489	10.86	33.56	30.53	52.46	66.35	68.20	-1.85	peak



SDR_80M_Vertical-Peak-H



Condition: 3m VERTICAL

Job No : 00492AT

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	5647.133	10.48	33.09	30.64	52.99	65.92	68.20	-2.28	peak
2	5718.364	10.64	33.24	30.61	53.68	66.95	110.34	-43.39	peak
3	5809.500	11.01	33.44	30.58	101.03	114.90	-----	-----	peak
4	5854.890	10.95	33.59	30.56	59.89	73.87	111.05	-37.18	peak
5 pp	5931.864	10.86	33.56	30.53	52.63	66.52	68.20	-1.68	peak



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

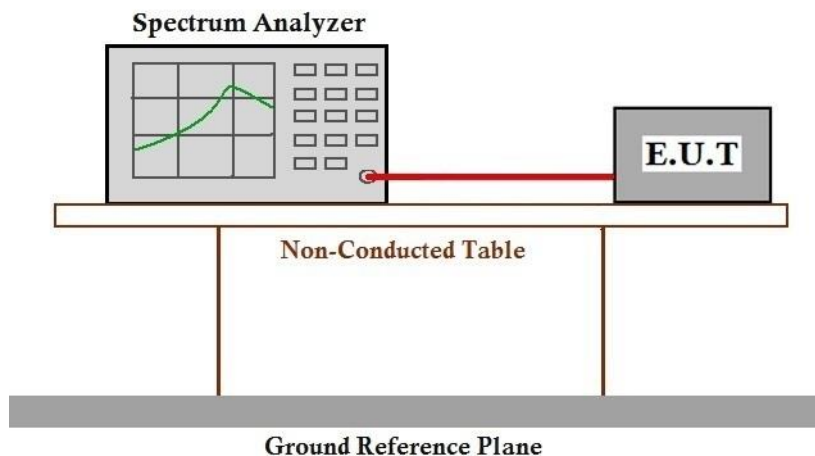
Operating Environment:

Temperature: 28.7 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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

Please Refer to Appendix for Details

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

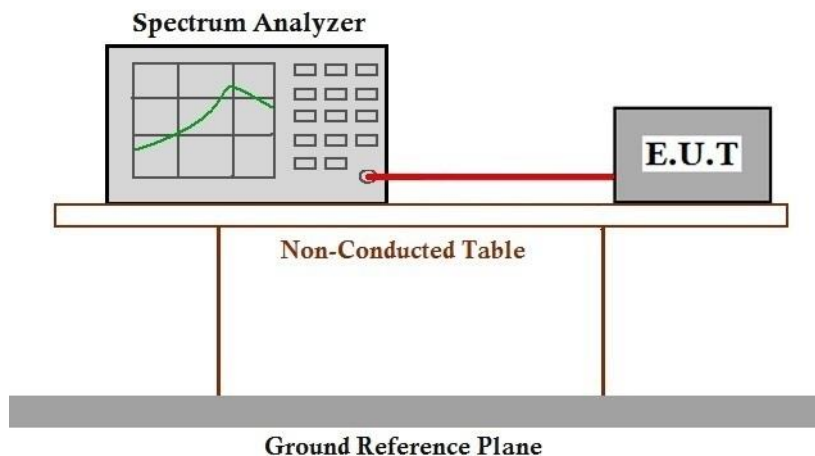
Operating Environment:

Temperature: 28.7 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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

Please Refer to Appendix for Details

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: 28.7 °C

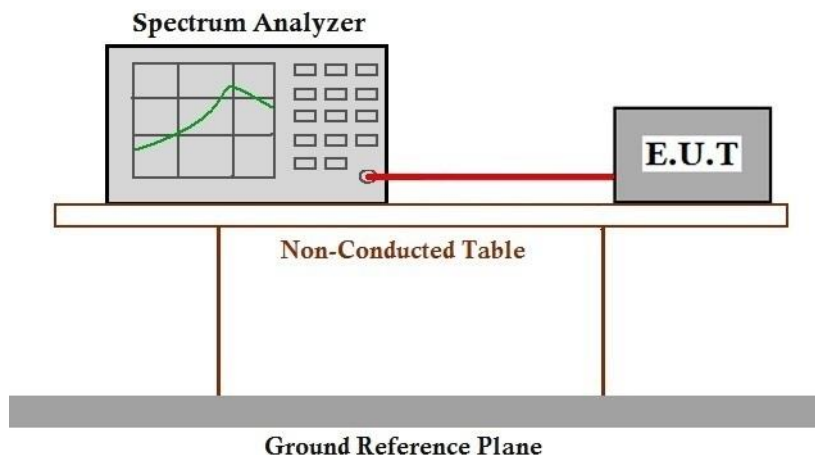
Humidity: 45.5 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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: 28.7 °C

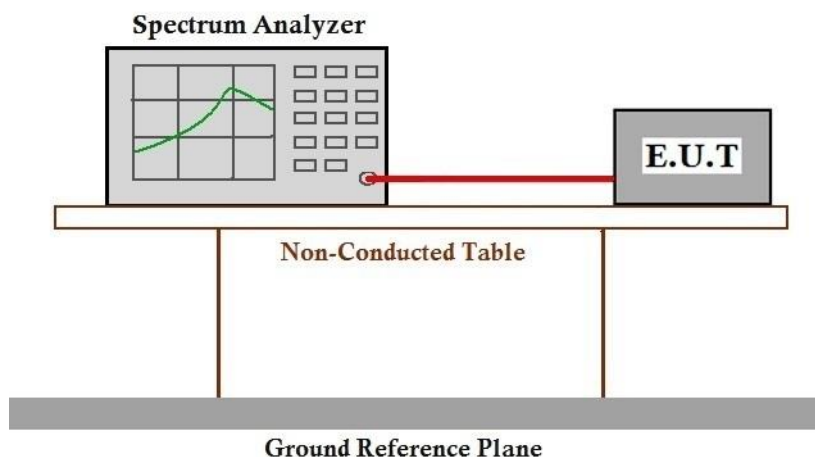
Humidity: 45.5 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Peak Power spectrum density

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

Test Method: 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: 28.7 °C

Humidity: 45.5 % RH

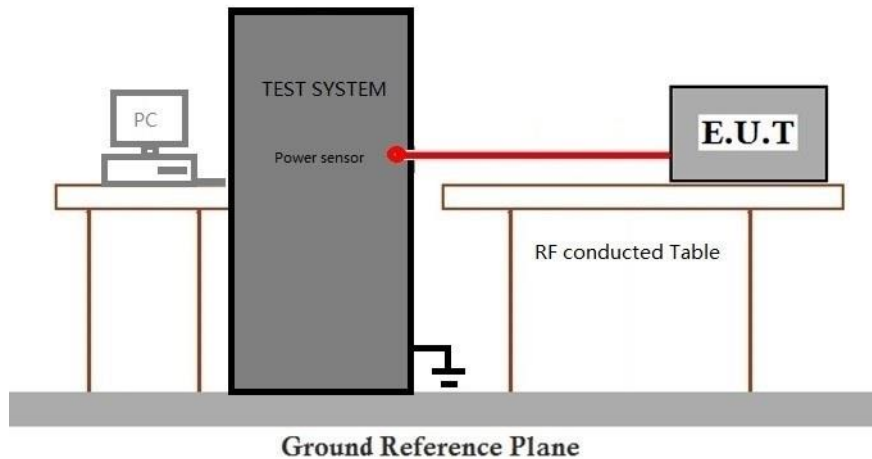
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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

Please Refer to Appendix for Details



7.11 Frequency Stability

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

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

7.11.1 E.U.T. Operation

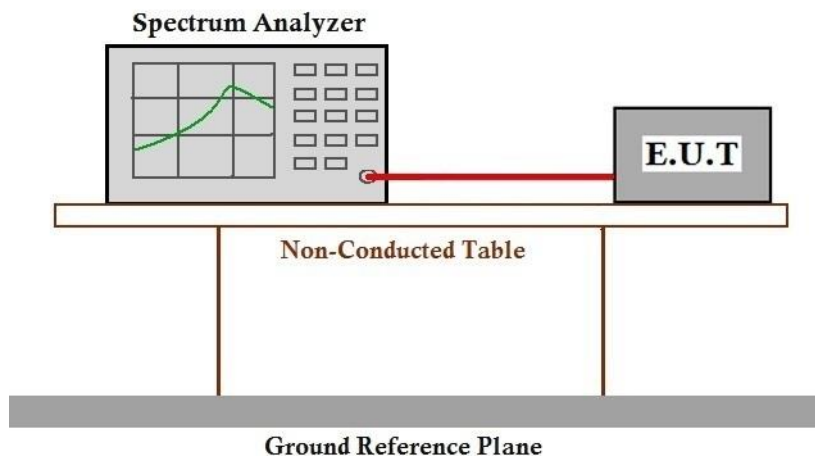
Operating Environment:

Temperature: 28.7 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (5.8G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	16	TX mode (5.8G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	18	TX mode (5.8G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	20	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	22	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	24	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	26	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	28	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	30	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	32	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	34	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

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2502000492AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2502000492AT



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	MIMO	5157	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5161	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5170	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00

Ant1							
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



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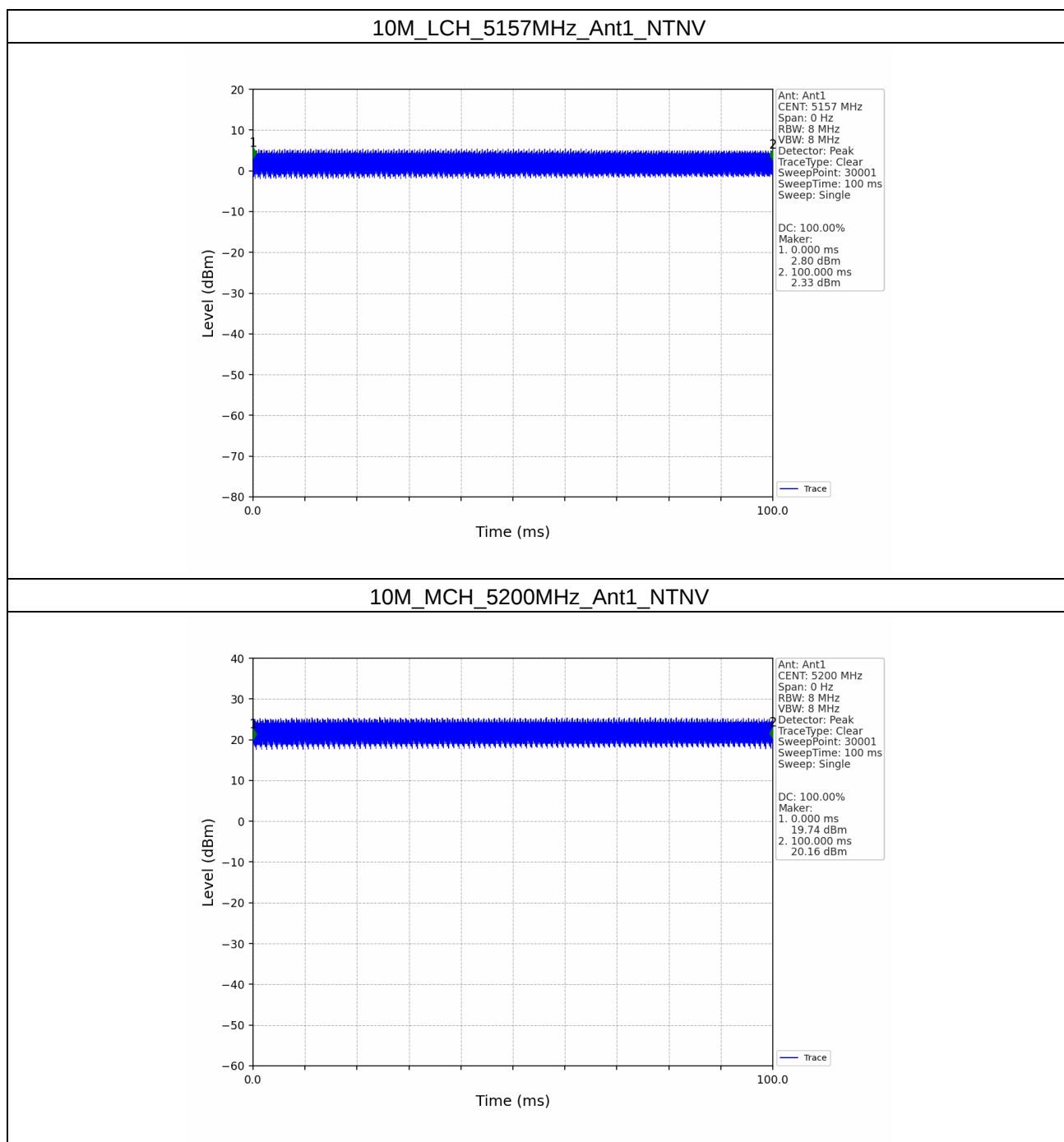
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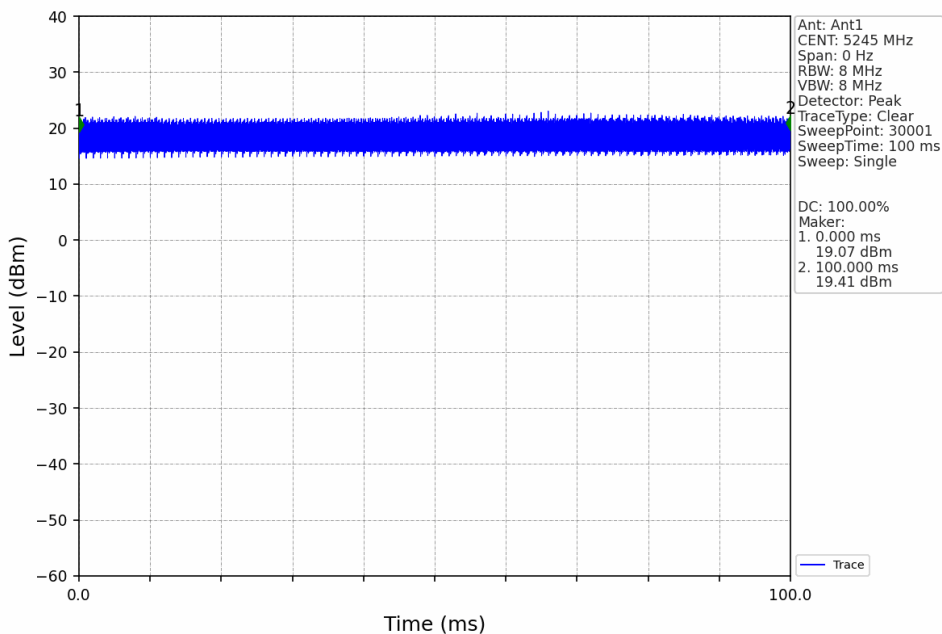
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1.2 Test Graph

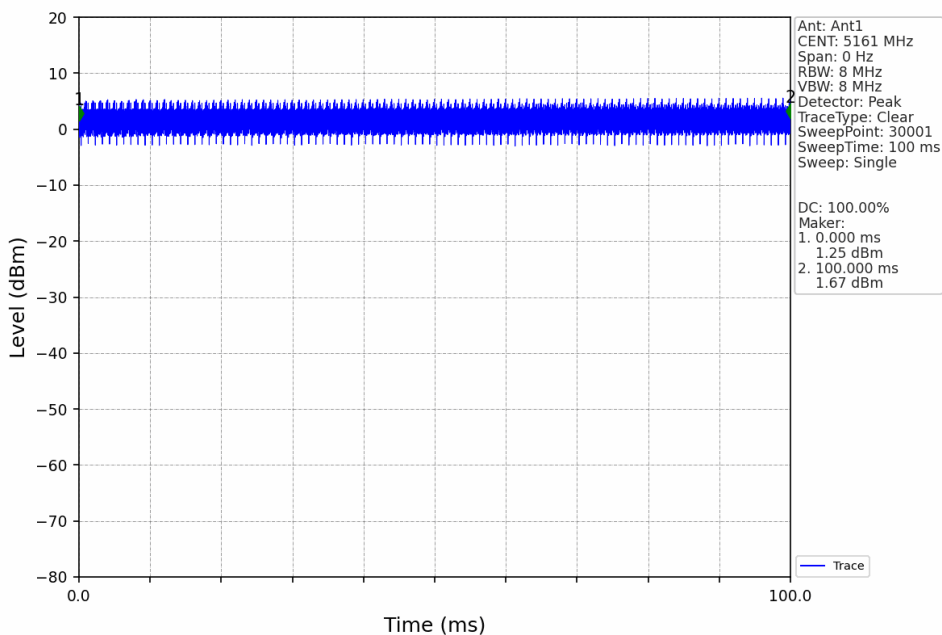
1.2.1 Ant1



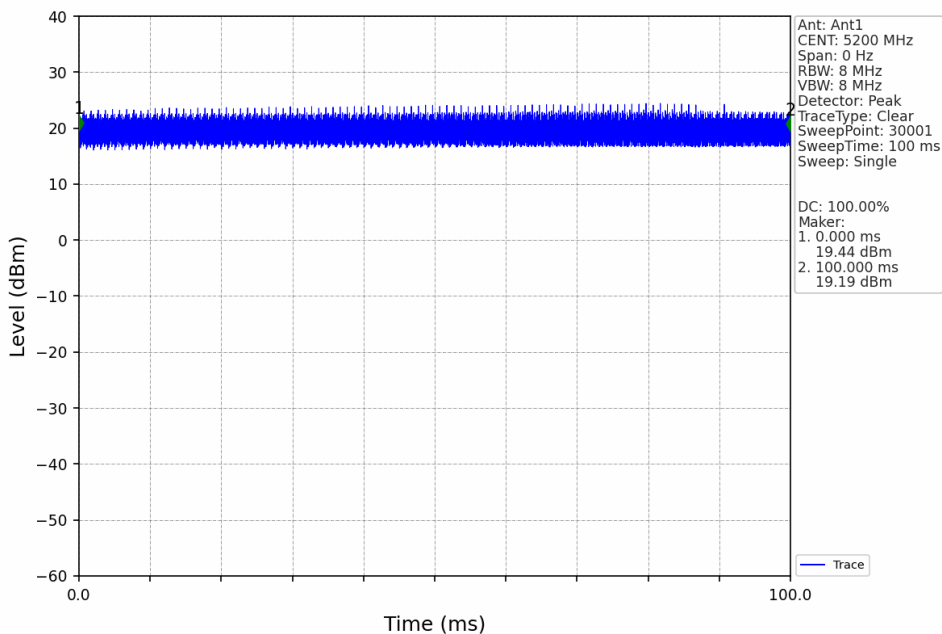
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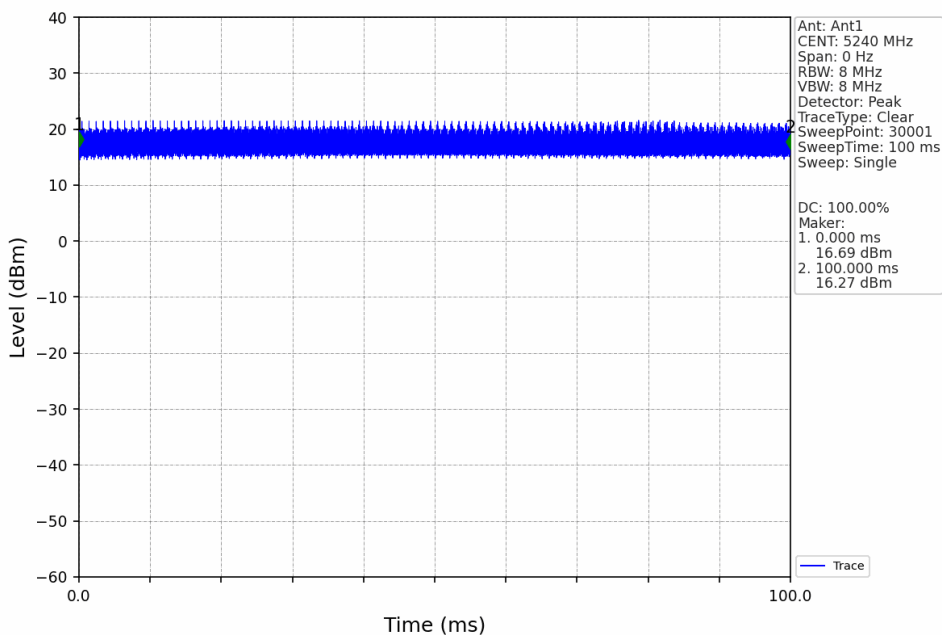
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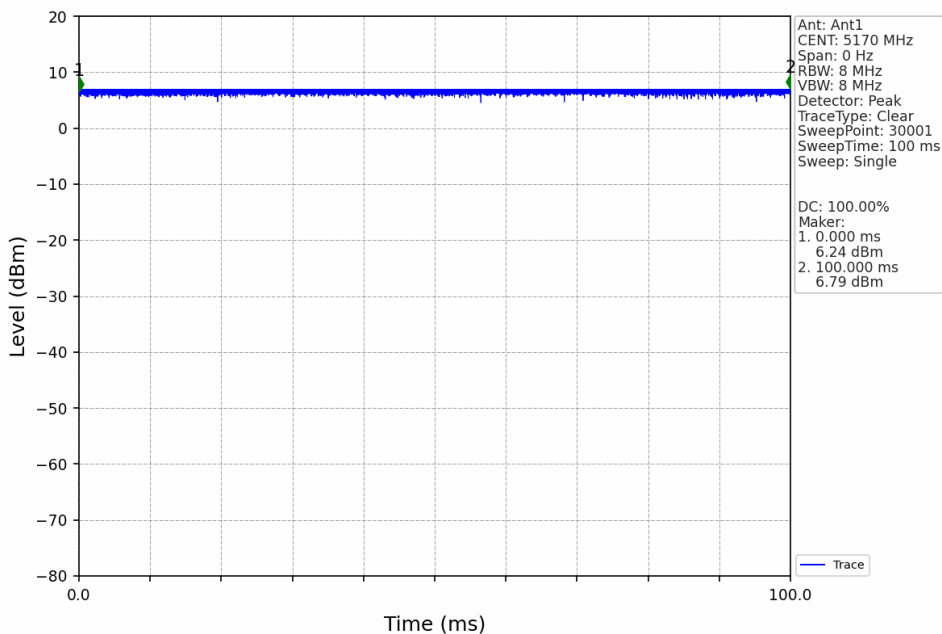
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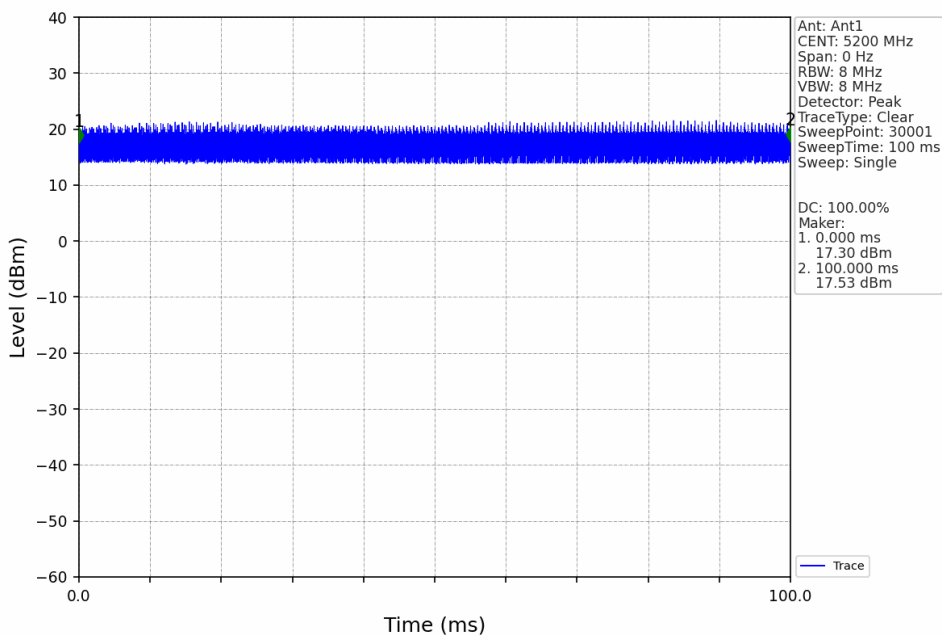
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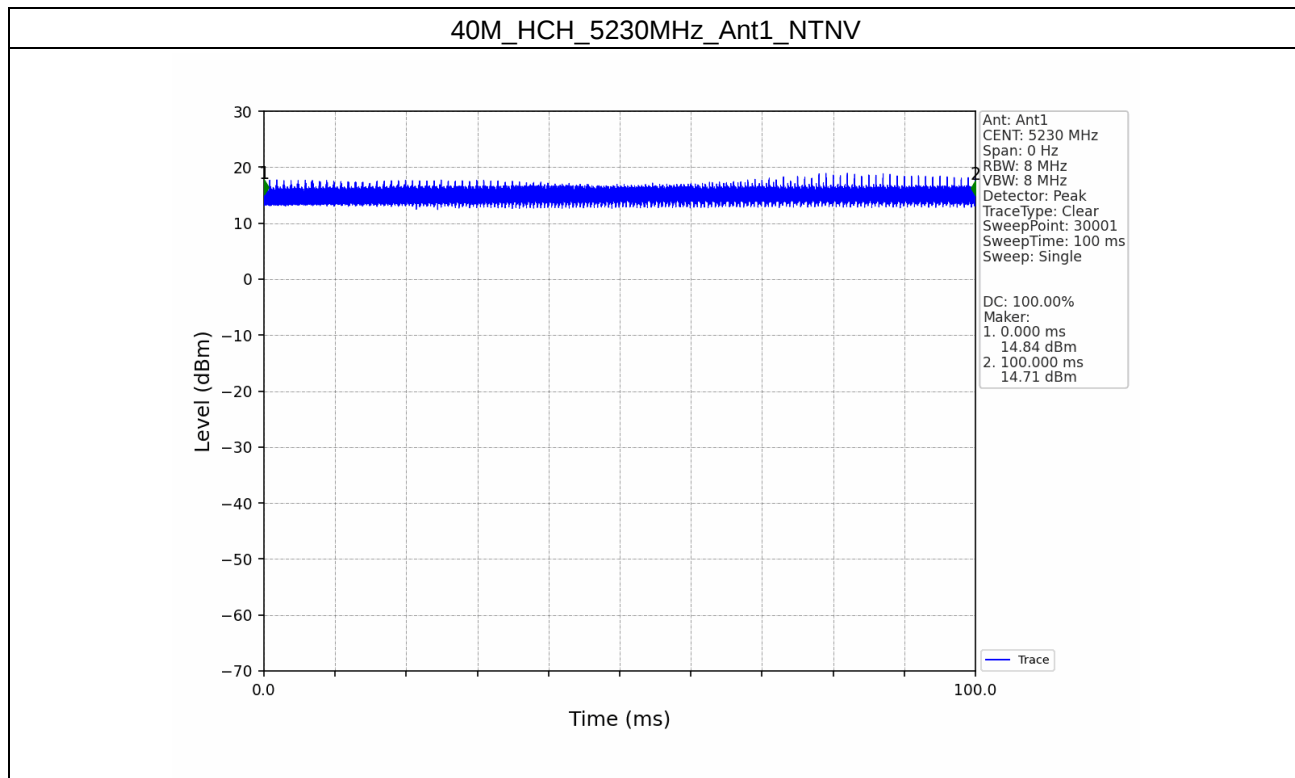


40M_LCH_5170MHz_Ant1_NTNV

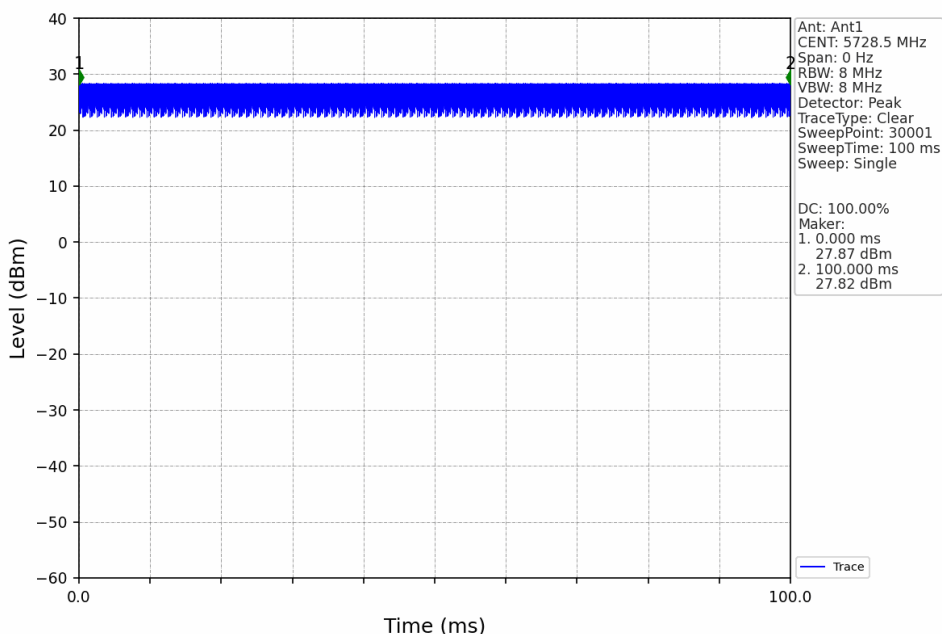


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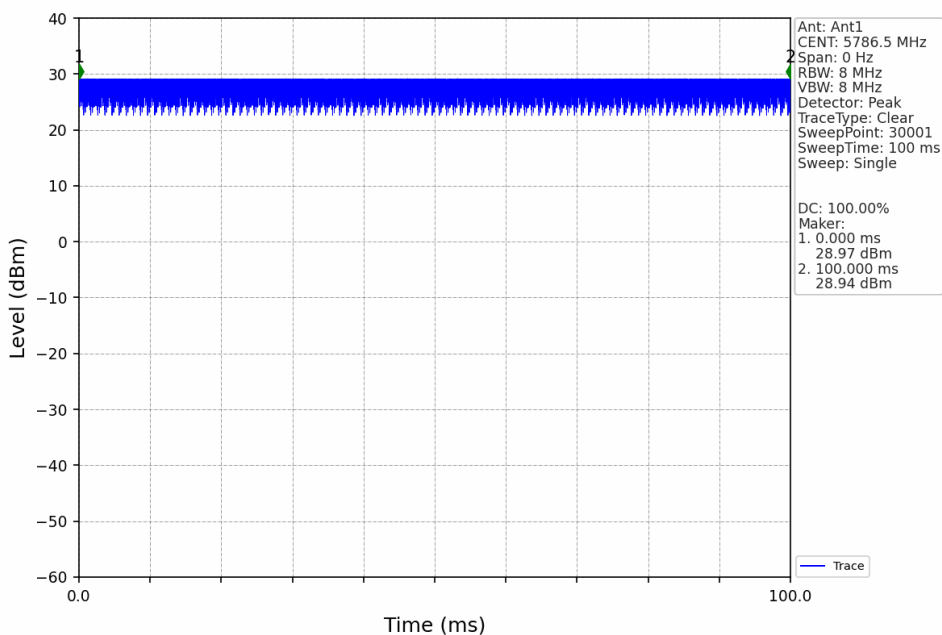


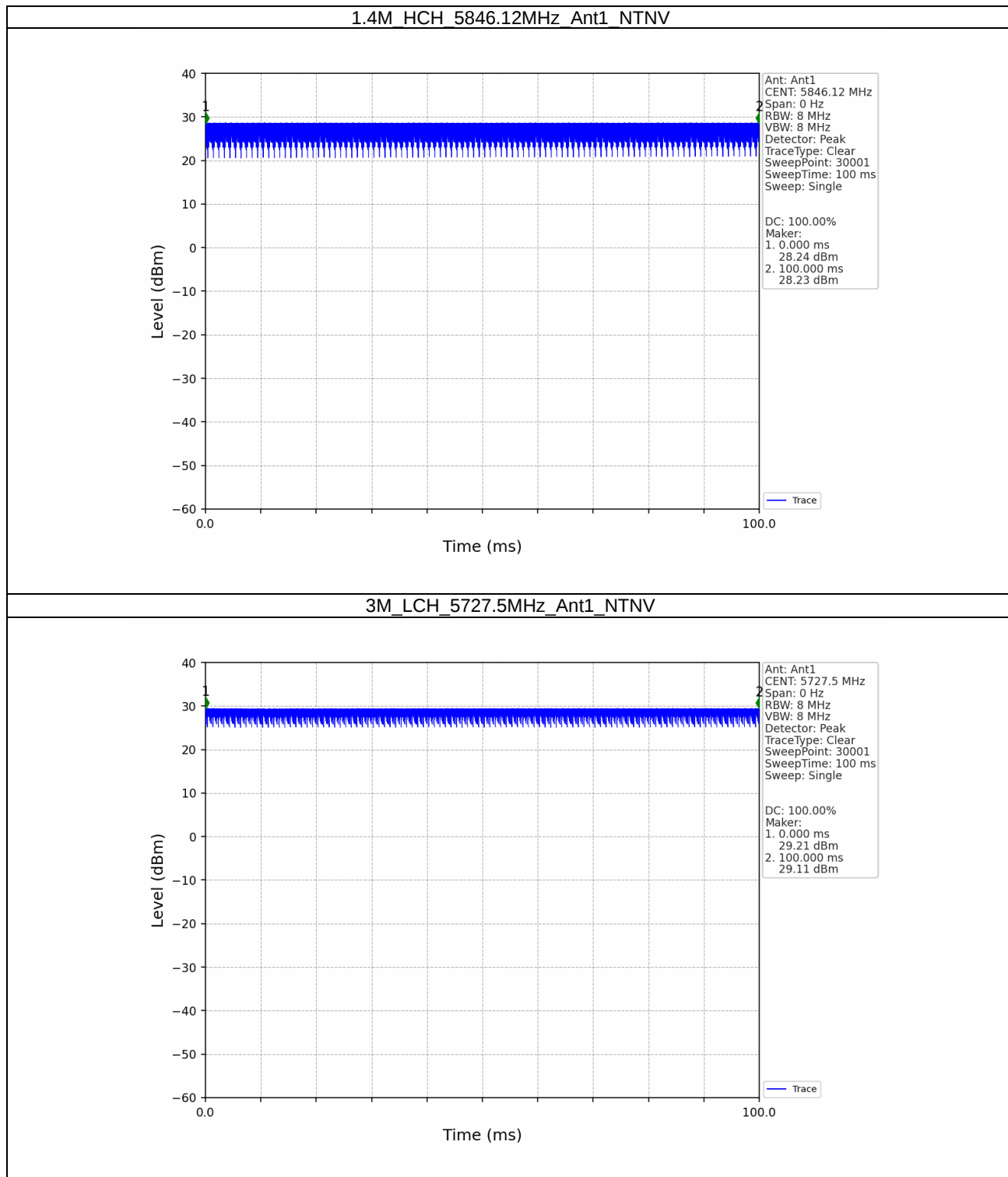


1.4M LCH 5728.5MHz_Ant1_NTNV

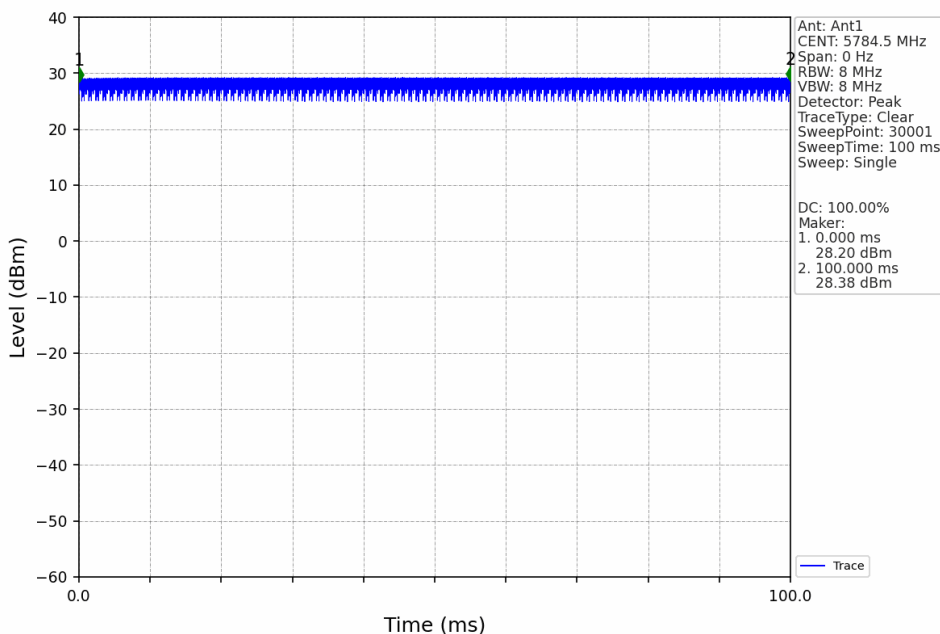


1.4M MCH 5786.5MHz_Ant1_NTNV

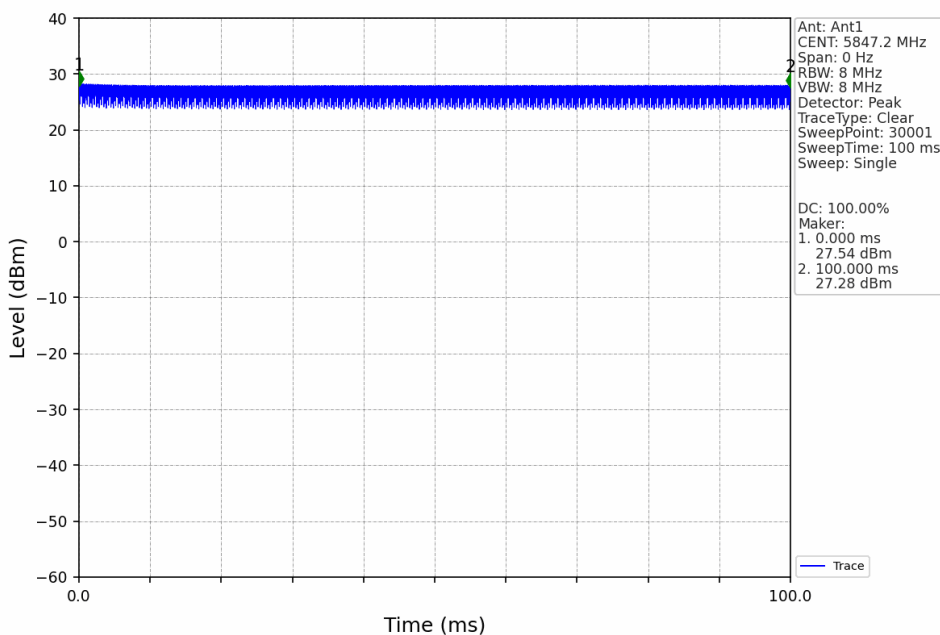




3M_MCH_5784.5MHz_Ant1_NTNV



3M_HCH_5847.2MHz_Ant1_NTNV

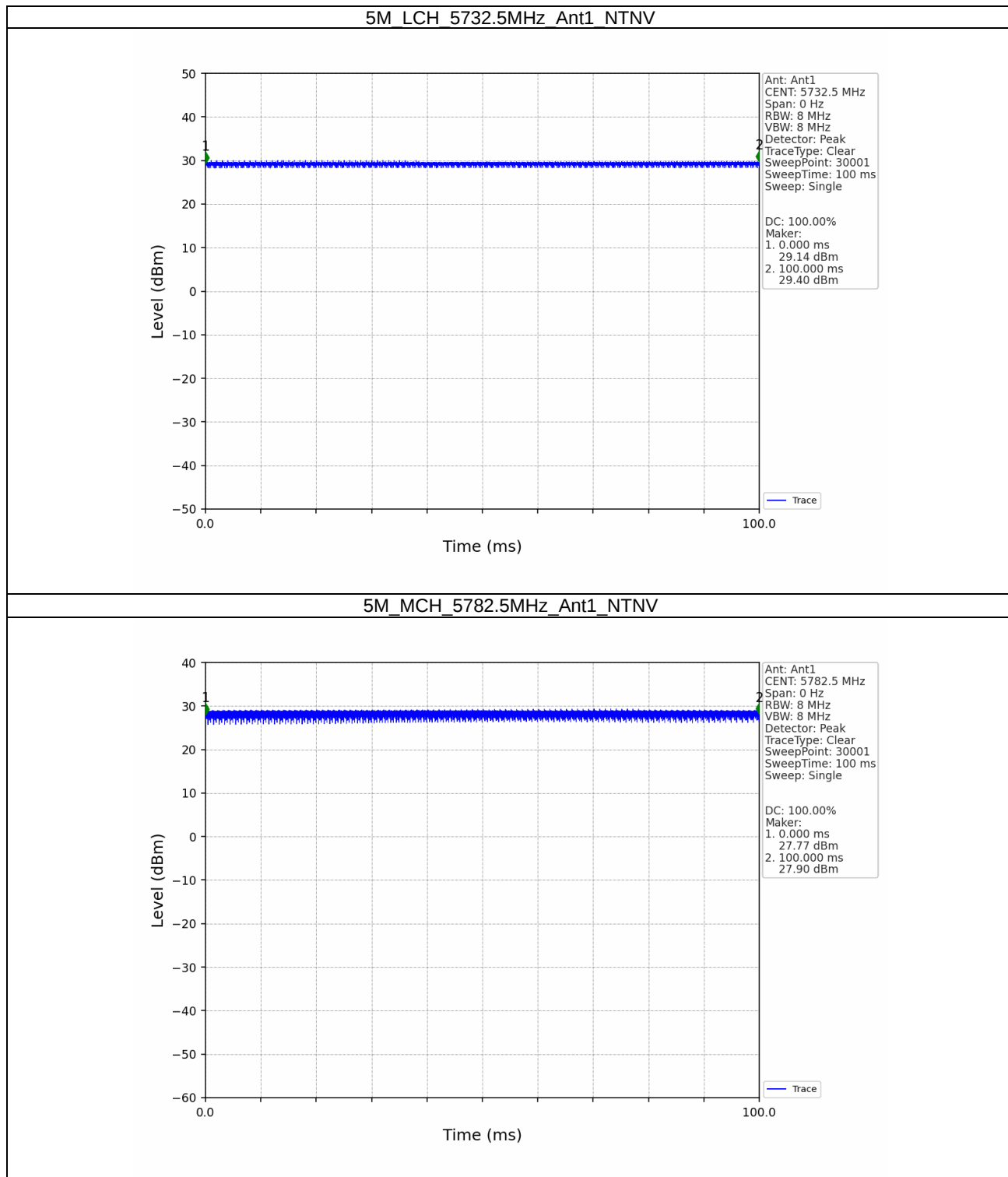


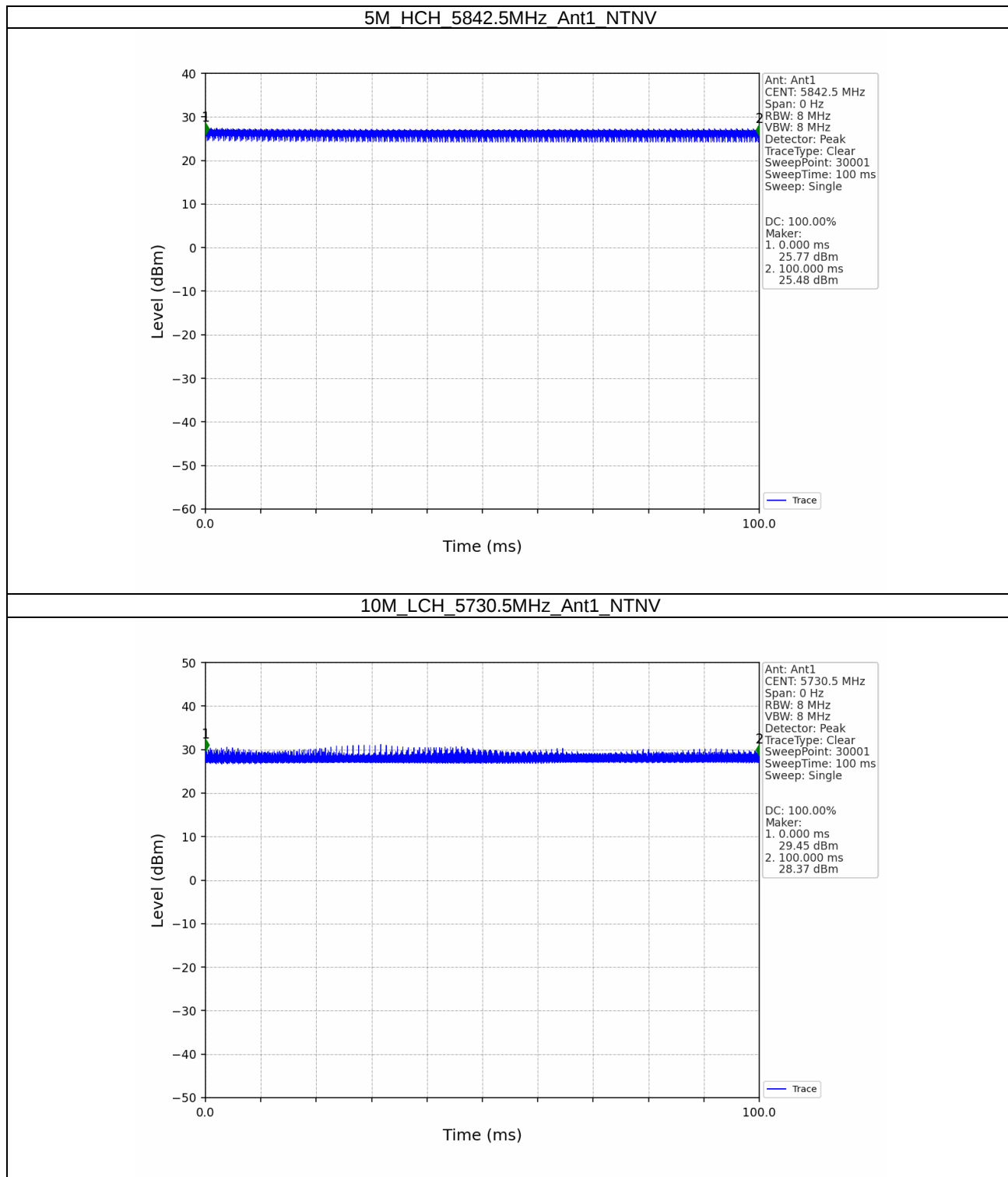
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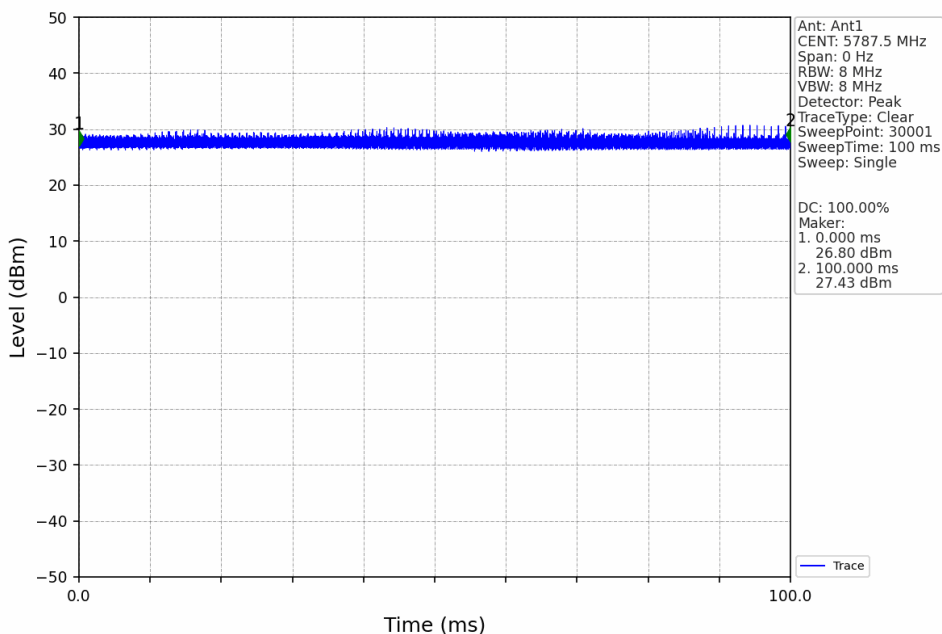
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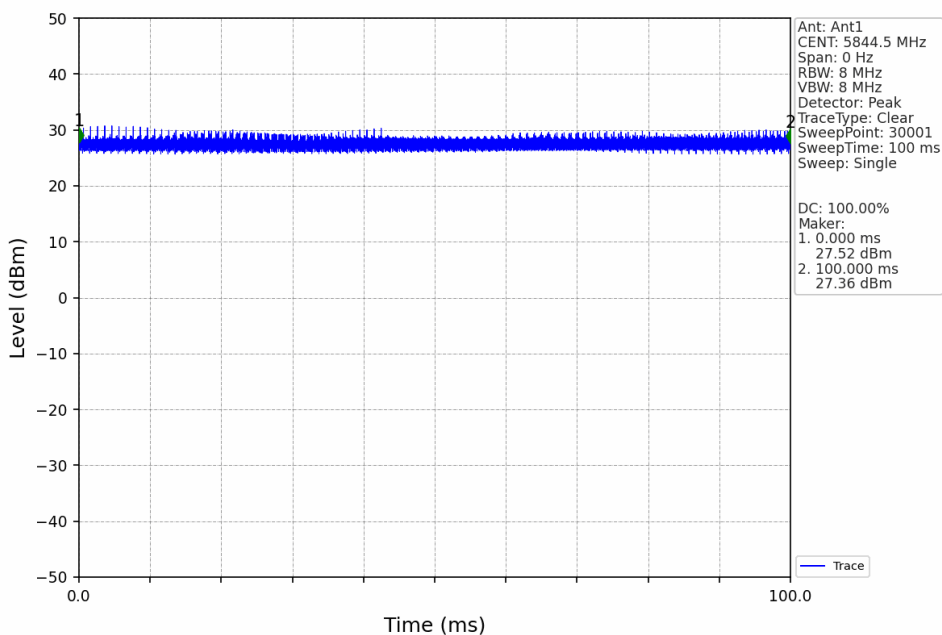




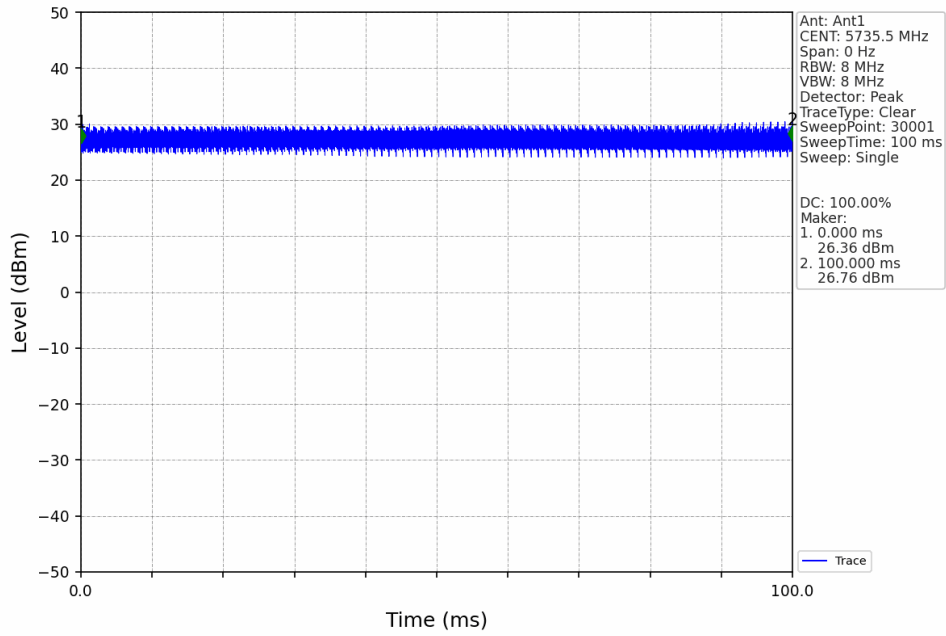
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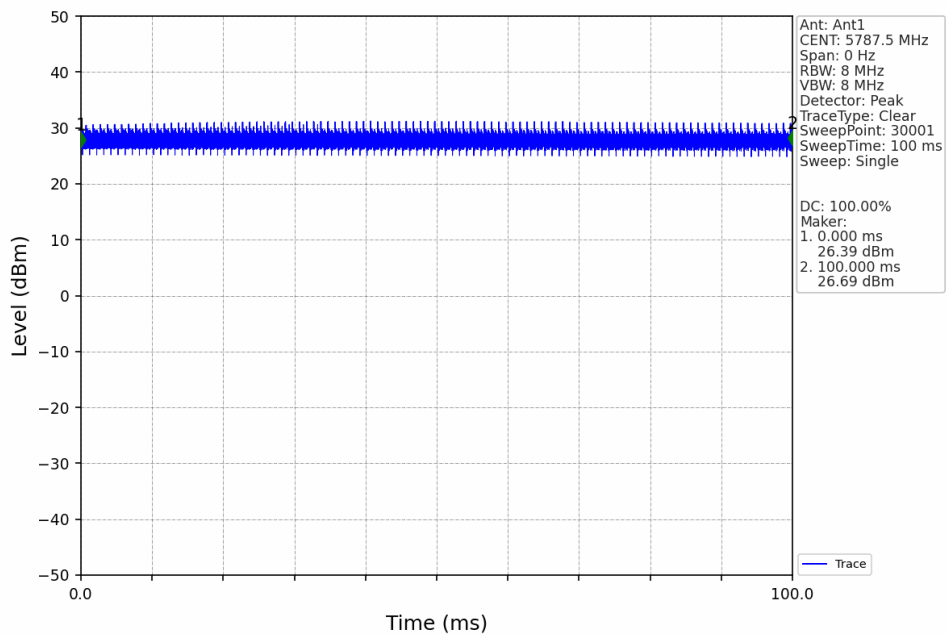
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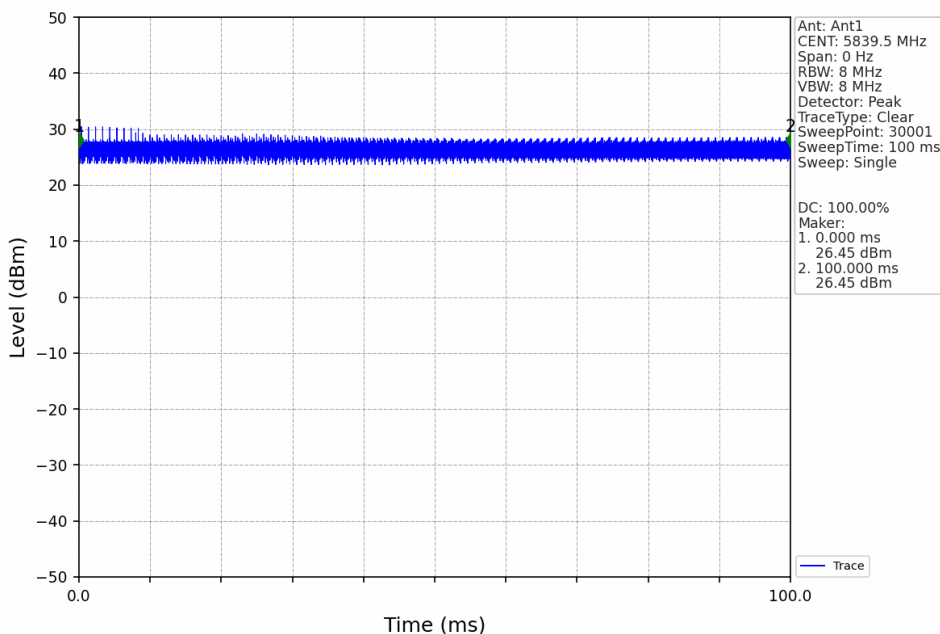
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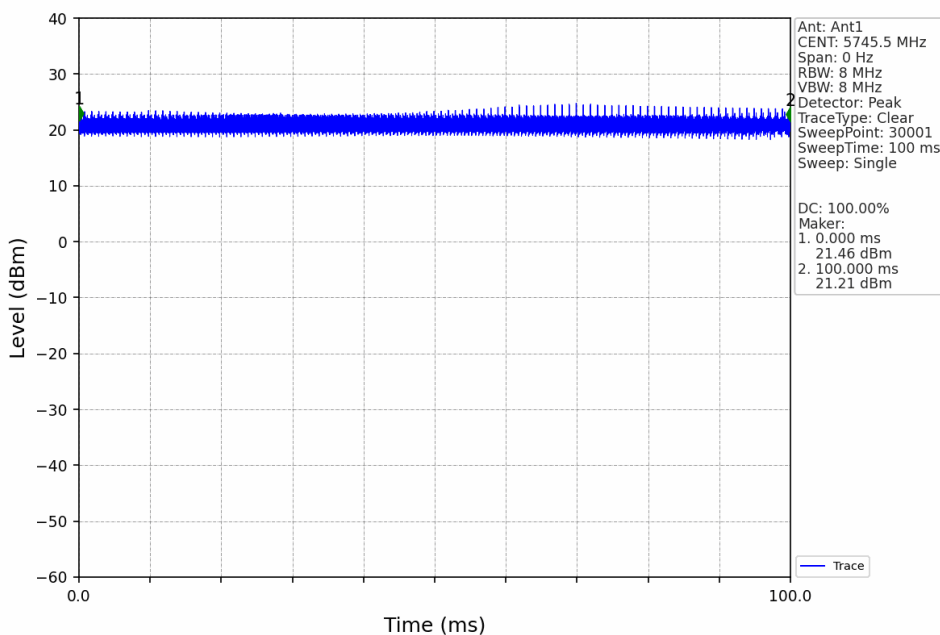
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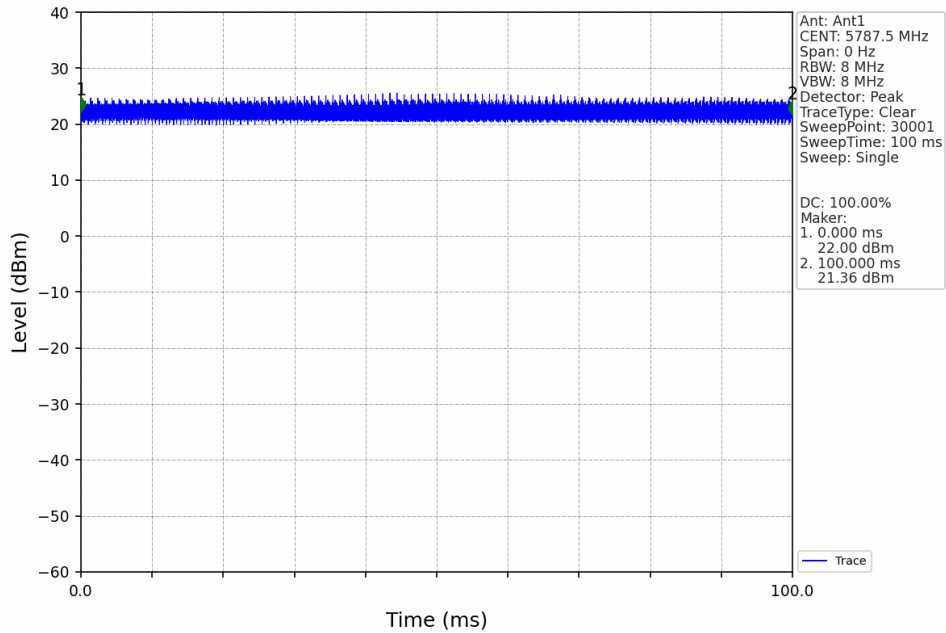
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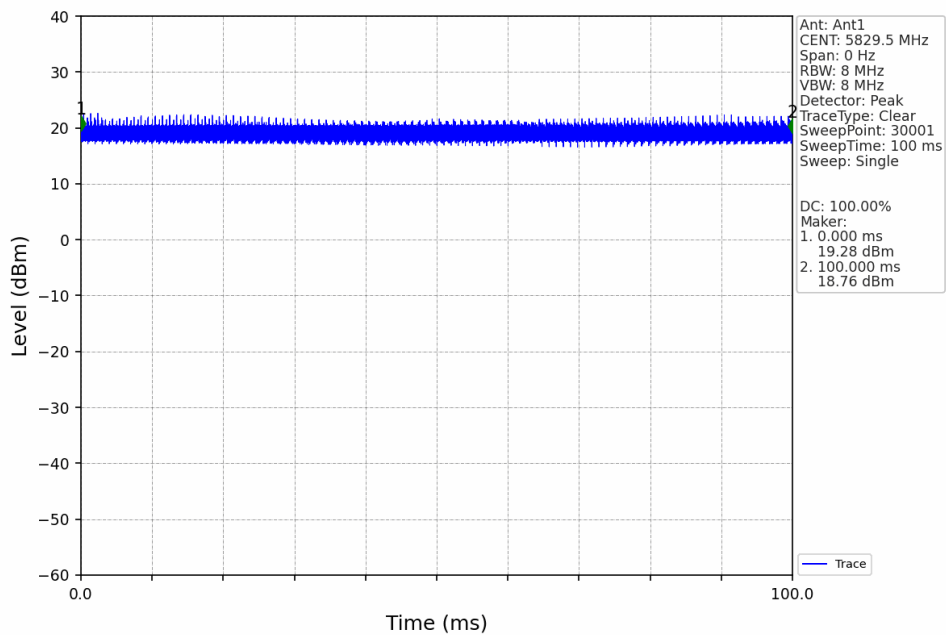
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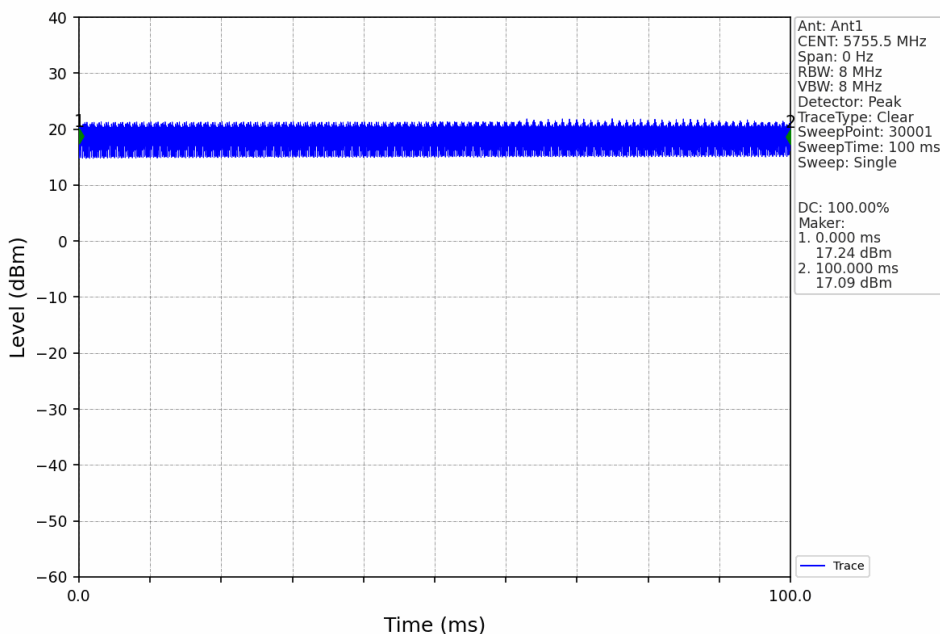
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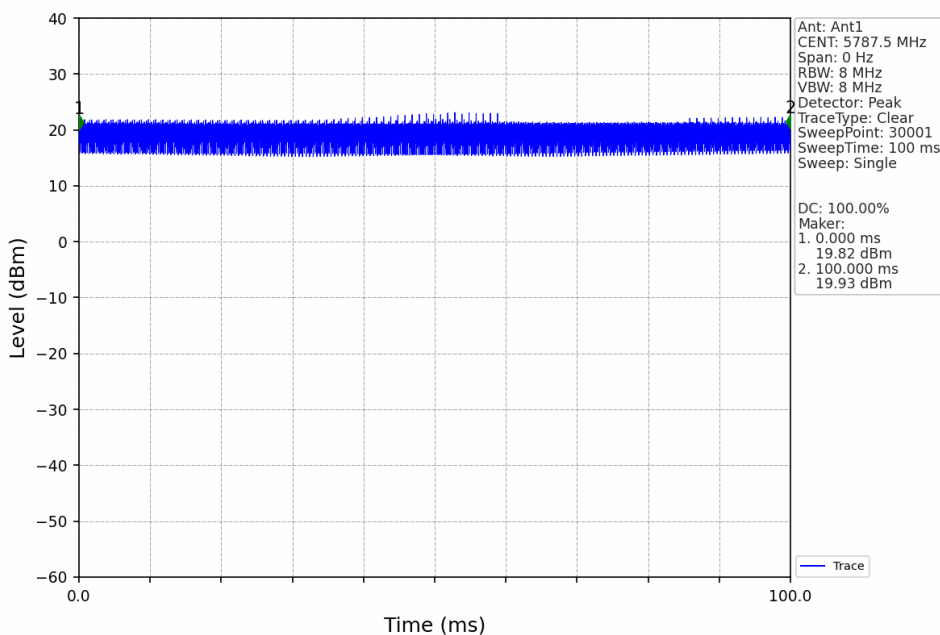
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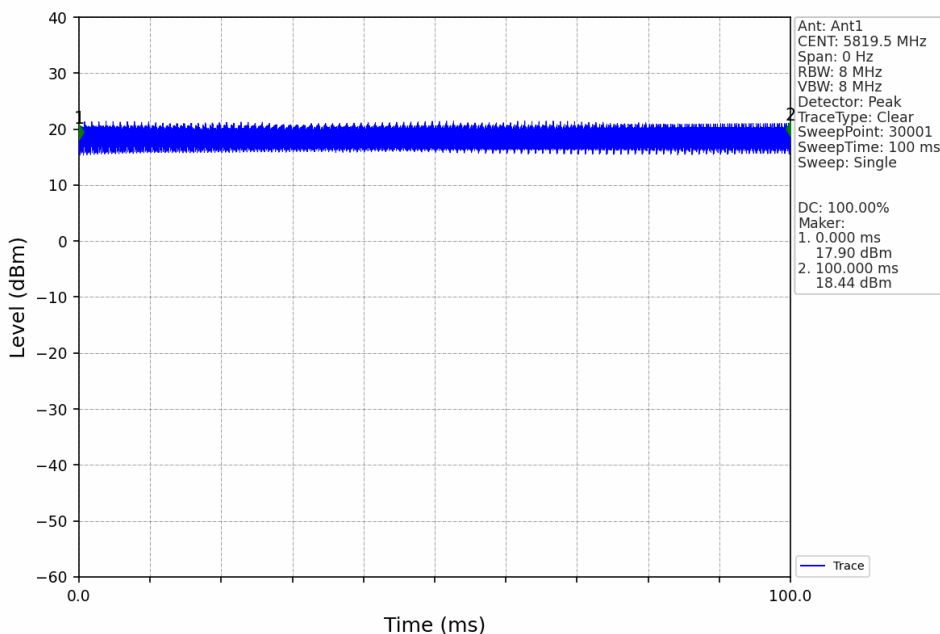
60M_LCH_5755.5MHz_Ant1_NTNV



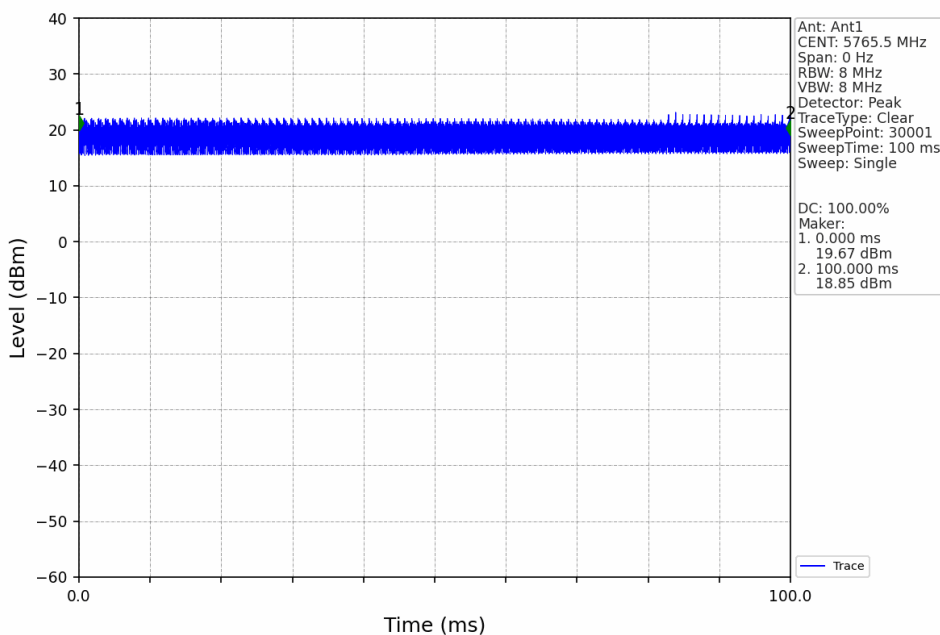
60M_MCH_5787.5MHz_Ant1_NTNV



60M_HCH_5819.5MHz_Ant1_NTNV



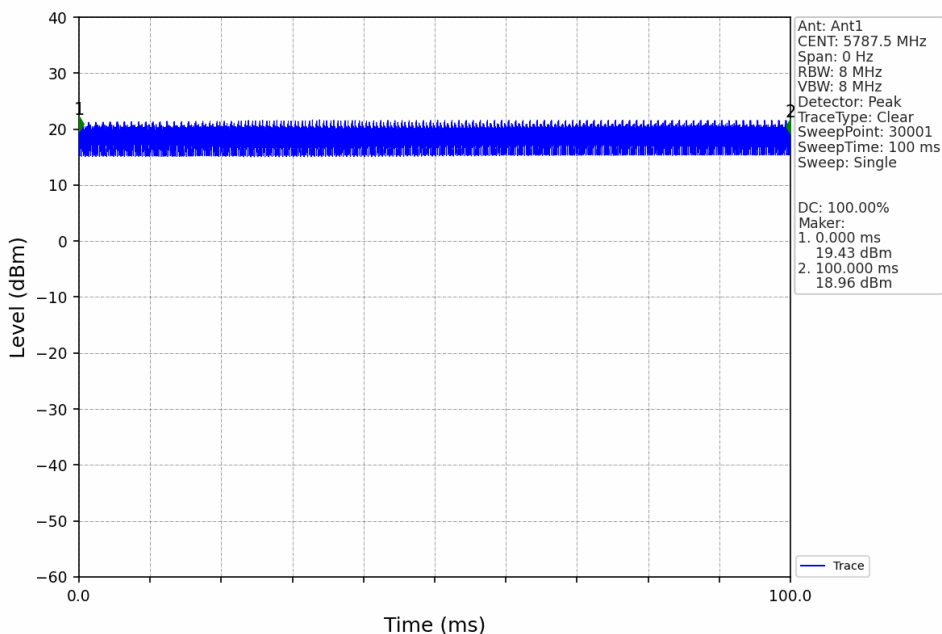
80M_LCH_5765.5MHz_Ant1_NTNV



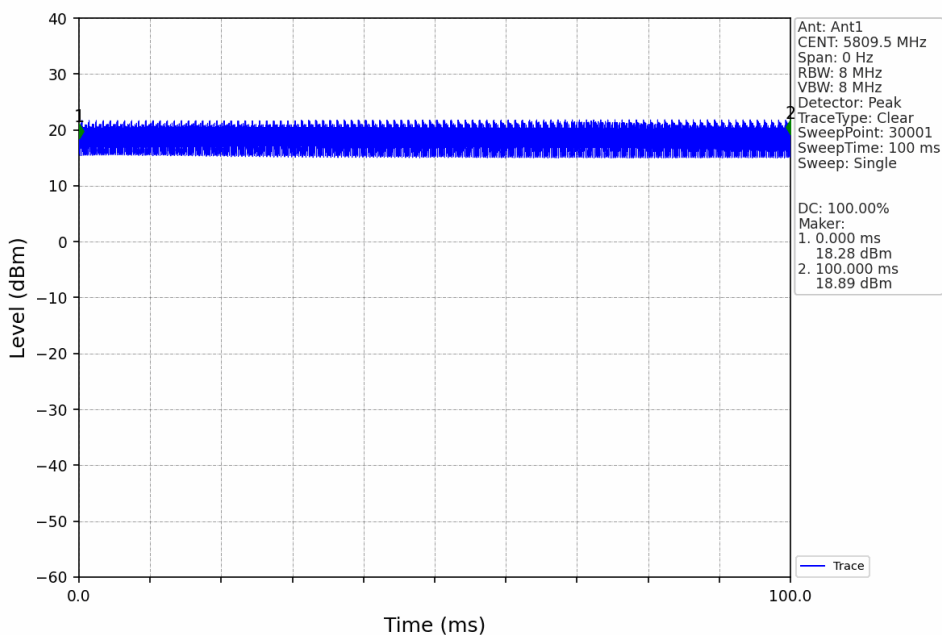
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80M_MCH_5787.5MHz_Ant1_NTNV



80M_HCH_5809.5MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	1	9.080	/	Pass
		5200	1	9.095	/	Pass
		5245	1	9.075	/	Pass
20M	MIMO	5161	1	18.039	/	Pass
		5200	1	18.093	/	Pass
		5240	1	18.049	/	Pass
40M	MIMO	5170	1	18.510	/	Pass
		5200	1	36.275	/	Pass
		5230	1	32.363	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	1	1.371	/	Pass
		5786.5	1	1.421	/	Pass
		5846.12	1	1.402	/	Pass
3M	MIMO	5727.5	1	2.386	/	Pass
		5784.5	1	2.341	/	Pass
		5847.2	1	2.352	/	Pass
5M	MIMO	5732.5	1	4.570	/	Pass
		5782.5	1	4.496	/	Pass
		5842.5	1	4.487	/	Pass
10M	MIMO	5730.5	1	9.113	/	Pass
		5787.5	1	9.119	/	Pass
		5844.5	1	9.124	/	Pass
20M	MIMO	5735.5	1	17.926	/	Pass
		5787.5	1	17.858	/	Pass
		5839.5	1	17.849	/	Pass
40M	MIMO	5745.5	1	32.340	/	Pass
		5787.5	1	32.253	/	Pass
		5829.5	1	32.300	/	Pass
60M	MIMO	5755.5	1	52.346	/	Pass
		5787.5	1	52.340	/	Pass
		5819.5	1	52.356	/	Pass
80M	MIMO	5765.5	1	62.286	/	Pass
		5787.5	1	62.241	/	Pass
		5809.5	1	62.479	/	Pass

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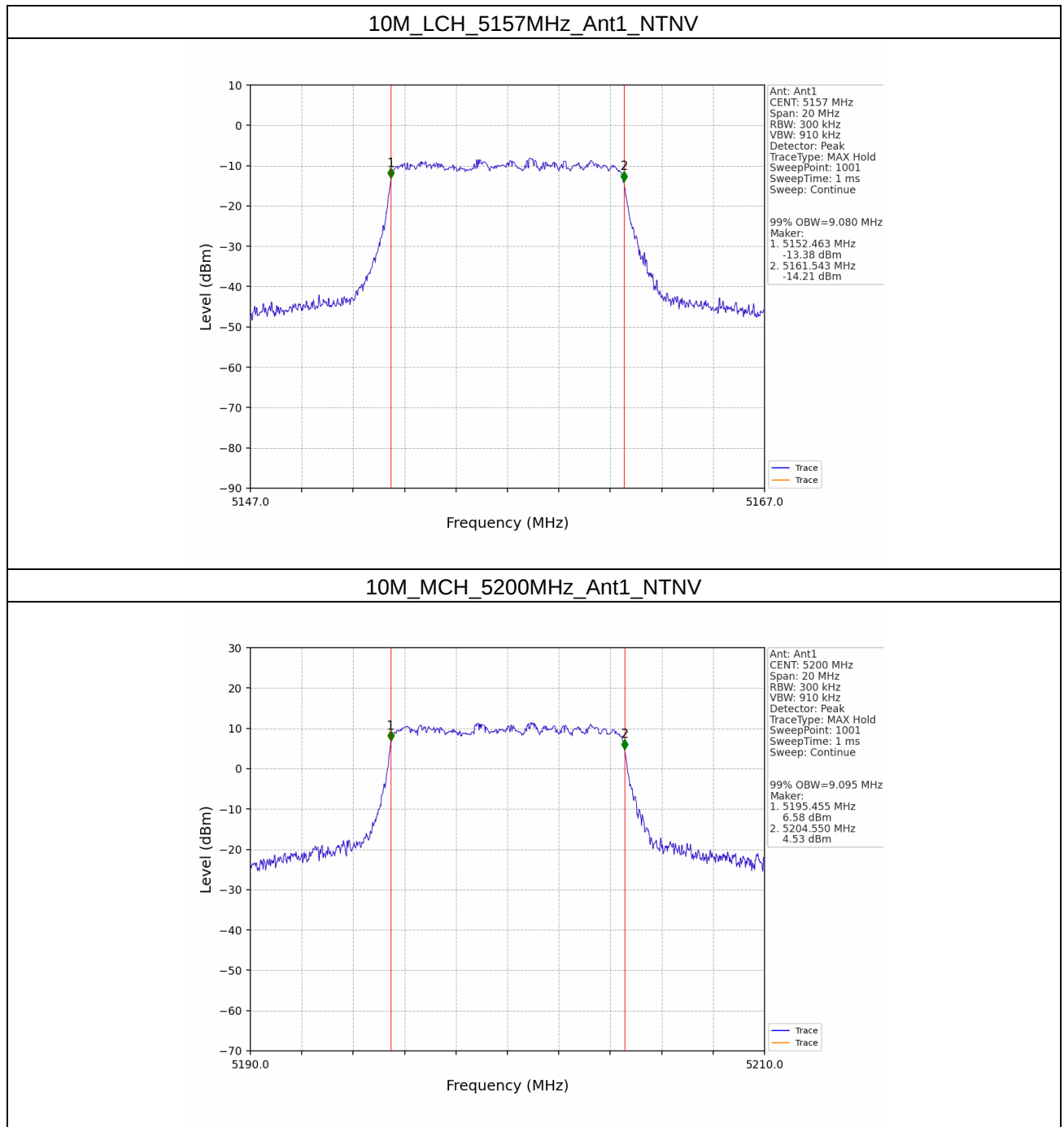
2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	1	10.254	/	Pass
		5200	1	10.169	/	Pass
		5245	1	10.296	/	Pass
20M	MIMO	5161	1	19.419	/	Pass
		5200	1	19.439	/	Pass
		5240	1	19.265	/	Pass
40M	MIMO	5170	1	19.828	/	Pass
		5200	1	38.395	/	Pass
		5230	1	36.648	/	Pass

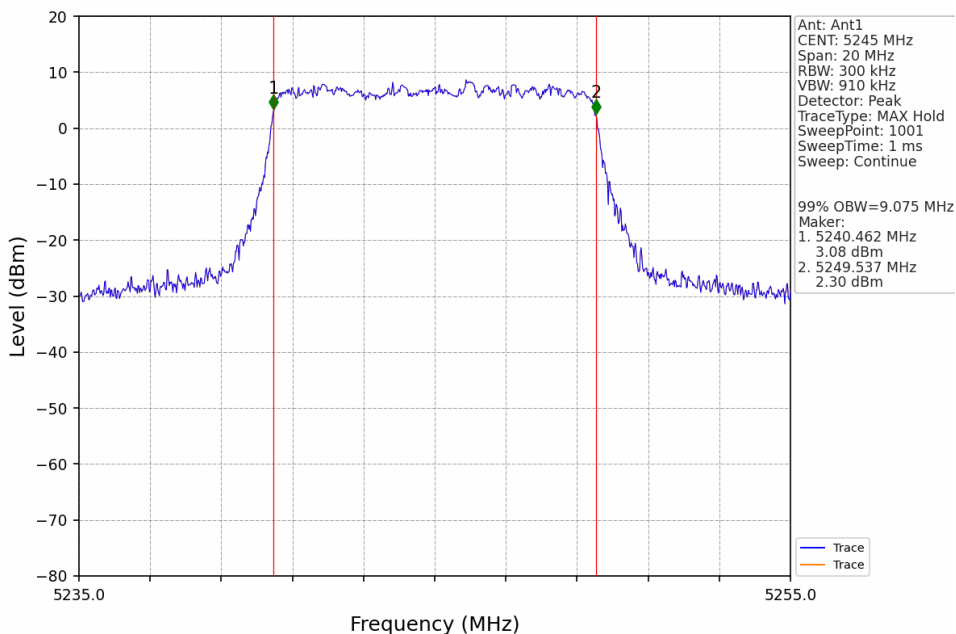
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	1	1.113	>=0.5	Pass
		5786.5	1	1.113	>=0.5	Pass
		5846.12	1	1.107	>=0.5	Pass
3M	MIMO	5727.5	1	2.194	>=0.5	Pass
		5784.5	1	2.197	>=0.5	Pass
		5847.2	1	2.192	>=0.5	Pass
5M	MIMO	5732.5	1	4.372	>=0.5	Pass
		5782.5	1	4.387	>=0.5	Pass
		5842.5	1	4.363	>=0.5	Pass
10M	MIMO	5730.5	1	9.048	>=0.5	Pass
		5787.5	1	9.038	>=0.5	Pass
		5844.5	1	9.024	>=0.5	Pass
20M	MIMO	5735.5	1	16.590	>=0.5	Pass
		5787.5	1	17.954	>=0.5	Pass
		5839.5	1	18.011	>=0.5	Pass
40M	MIMO	5745.5	1	21.288	>=0.5	Pass
		5787.5	1	23.420	>=0.5	Pass
		5829.5	1	21.367	>=0.5	Pass
60M	MIMO	5755.5	1	42.217	>=0.5	Pass
		5787.5	1	39.224	>=0.5	Pass
		5819.5	1	41.665	>=0.5	Pass
80M	MIMO	5765.5	1	44.582	>=0.5	Pass
		5787.5	1	43.645	>=0.5	Pass
		5809.5	1	44.587	>=0.5	Pass

2.2 Test Graph

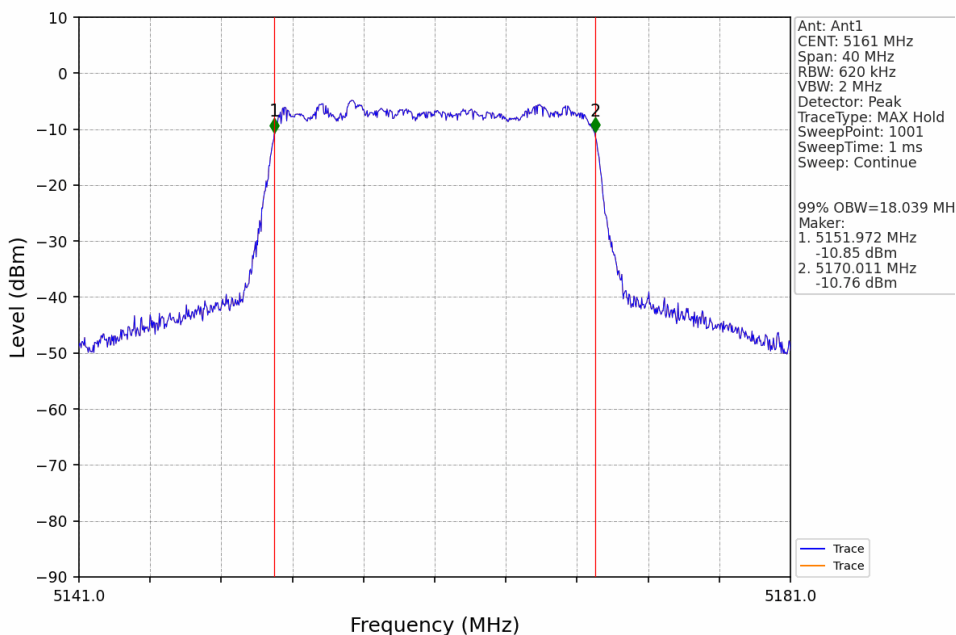
2.2.1 OBW



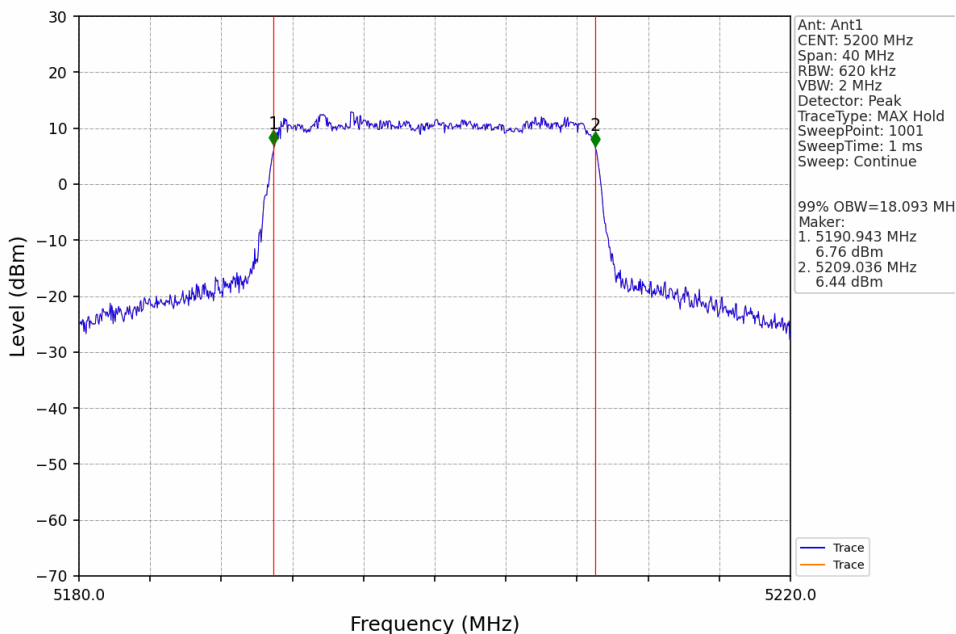
10M_HCH_5245MHz_Ant1_NTNV



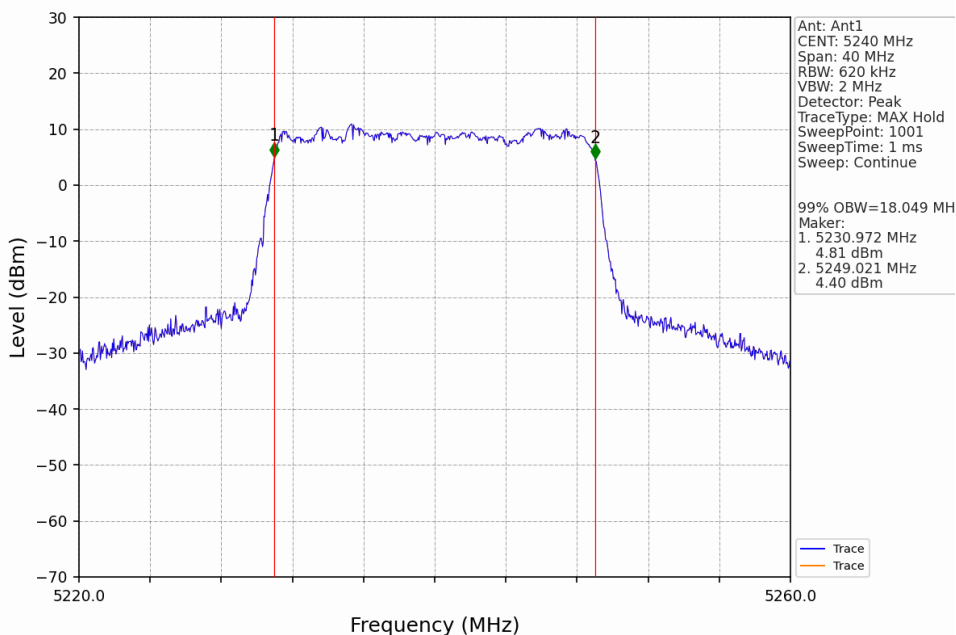
20M_LCH_5161MHz_Ant1_NTNV



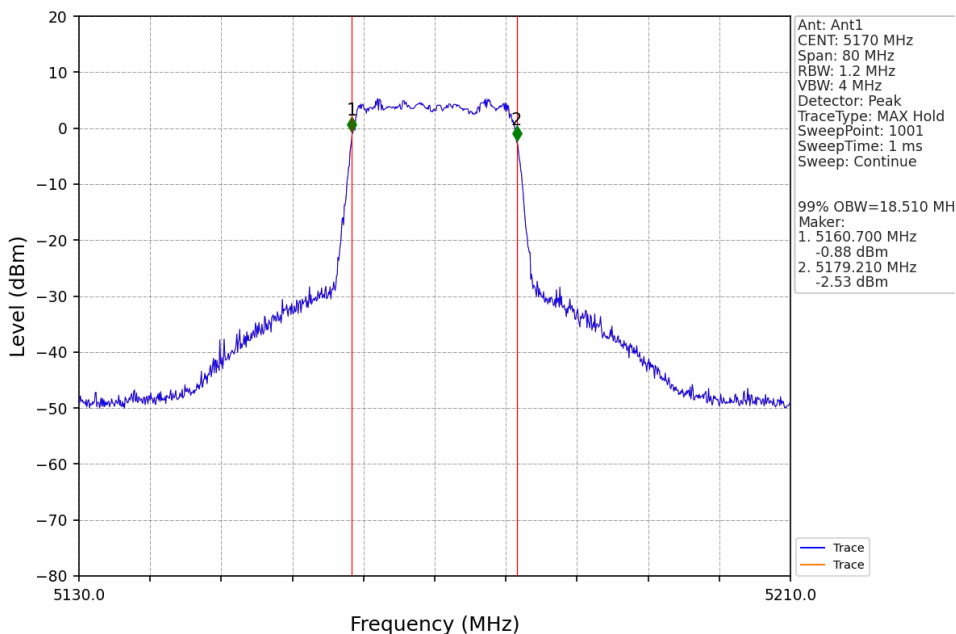
20M_MCH_5200MHz_Ant1_NTNV



20M_HCH_5240MHz_Ant1_NTNV



40M_LCH_5170MHz_Ant1_NTNV



40M_MCH_5200MHz_Ant1_NTNV

