

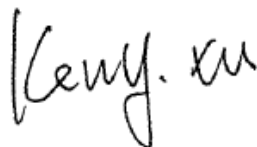
TEST REPORT

Application No.: SZCR2404001438AT
Applicant: Xiamen Milesight IoT Co., Ltd.
Address of Applicant: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Manufacturer: Xiamen Milesight IoT Co., Ltd.
Address of Manufacturer: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Equipment Under Test (EUT):
EUT Name: Temperature Sensor
Model No.: TS201-868M/915M, NK201-868M/915M, TS201-915M, NK201-915M, TS201, NK201, TS202-868M/915M, NK202-868M/915M, TS202-915M, NK202-915M, TS202, NK202 *

* Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Milesight
FCC ID: 2AYHY-TS20X
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-04-22
Date of Test: 2024-05-14 to 2024-05-22
Date of Issue: 2024-05-23

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



Keny Xu
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-05-23		Original

Authorized for issue by:			
		Frank Chen	
		Frank Chen/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 C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence		N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time		ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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Declaration of EUT Family Grouping:

Model No.: TS201-868M/915M, NK201-868M/915M, TS201-915M, NK201-915M, TS201, NK201, TS202-868M/915M, NK202-868M/915M, TS202-915M, NK202-915M, TS202, NK202

Only the model TS201-868M/915M was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on the temperature probe and model No..



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	5
4 General Information	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	8
4.4 Test Location	9
4.5 Test Facility	9
4.6 Deviation from Standards	9
4.7 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	13
6.2.1 Test Requirement:	13
6.2.2 Conclusion	13
7 Radio Spectrum Matter Test Results	15
7.1 Radiated Emissions which fall in the restricted bands	15
7.1.1 E.U.T. Operation	15
7.1.2 Test Mode Description	15
7.1.3 Test Setup Diagram	16
7.1.4 Measurement Procedure and Data	16
7.2 Radiated Spurious Emissions Below 1GHz	35
7.2.1 E.U.T. Operation	35
7.2.2 Test Mode Description	35
7.2.3 Test Setup Diagram	35
7.2.4 Measurement Procedure and Data	36
7.3 Radiated Spurious Emissions Above 1GHz	55
7.3.1 E.U.T. Operation	55
7.3.2 Test Mode Description	55
7.3.3 Test Setup Diagram	55
7.3.4 Measurement Procedure and Data	56
7.4 Conducted Peak Output Power	75
7.4.1 E.U.T. Operation	75
7.4.2 Test Mode Description	75
7.4.3 Test Setup Diagram	76



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7.4.4	Measurement Procedure and Data.....	76
7.5	20dB Bandwidth	77
7.5.1	E.U.T. Operation	77
7.5.2	Test Mode Description	77
7.5.3	Test Setup Diagram	77
7.5.4	Measurement Procedure and Data.....	78
7.6	Carrier Frequencies Separation	79
7.6.1	E.U.T. Operation	79
7.6.2	Test Mode Description	79
7.6.3	Test Setup Diagram	79
7.6.4	Measurement Procedure and Data.....	79
7.7	Hopping Channel Number.....	80
7.7.1	E.U.T. Operation	80
7.7.2	Test Mode Description	80
7.7.3	Test Setup Diagram	80
7.7.4	Measurement Procedure and Data.....	80
7.8	Dwell Time.....	81
7.8.1	E.U.T. Operation	81
7.8.2	Test Mode Description	81
7.8.3	Test Setup Diagram	81
7.8.4	Measurement Procedure and Data.....	81
7.9	Conducted Band Edges Measurement	82
7.9.1	E.U.T. Operation	82
7.9.2	Test Mode Description	82
7.9.3	Test Setup Diagram	83
7.9.4	Measurement Procedure and Data.....	83
7.10	Conducted Spurious Emissions	84
7.10.1	E.U.T. Operation.....	84
7.10.2	Test Mode Description.....	84
7.10.3	Test Setup Diagram.....	85
7.10.4	Measurement Procedure and Data	85
8	Test Setup Photo	86
9	EUT Constructional Details (EUT Photos)	86
10	Appendix.....	87



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4 General Information

4.1 Details of E.U.T.

Power Supply:	1 × 2700 mAh ER14505 Li-SOCL2 Batteries 3.6V
Antenna Type:	PCB Antenna
Antenna Gain:	-2.4dBi
Cable Loss (for RF conducted test):	0.6dB
Technical Specification of Lora for FHSS:	
Operating Frequency:	902.3MHz to 927.6MHz
Type of Modulation:	CSS
Channel Number:	127 Channels
Channel Separation:	200KHz
Occupied Bandwidth:	125KHz
Technical Specification of Lora for DTS:	
Operating Frequency:	903MHz to 914.2MHz and 923.3MHz to 926.9MHz
Type of Modulation:	CSS
Channel Number:	8 Channels for (903MHz to 914.2MHz); 7 Channels for (923.3MHz to 926.9MHz)
Channel Separation:	1.6MHz for (903MHz to 914.2MHz); 600KHz for (923.3MHz to 926.9MHz)
Occupied Bandwidth:	500KHz

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

4.2 Description of Support Units

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



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10 ⁻⁸
Hopping Channel Number	± 7.25 x 10 ⁻⁸
Dwell Time	± 0.37%
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{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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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Radiated Spurious 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	2023-10-19	2024-10-18
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	2023-07-07	2024-07-06

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
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	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400143802

Page: 11 of 150

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
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 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.4 dBi.

Antenna location: Refer to internal photo.



6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, each frequency used equally on the average by each transmitter. The MAC protocol of module implemented frequency hopping mechanisms. The frequency hopping equally (on average) use all available channels in a pseudo-random sequence, a hop dwell is 200 msec. A “channel function” defines a method used to determine, from the list of available PHY channels, the specific channel upon which a node is operating at a given time.

Direct Hash Channel Function (DH1CF) is used as channel function. The function to determine the current channel in the sequence uses a direct hash of time and node address or BSI to select the next channel from the list of channels in use. When using the DH1CF, the pseudorandom hopping sequence is comprised of 2^{16} slots (numbered 0 to $2^{16}-1$). The total sequence duration is thus $2^{16} * \text{dwell interval}$. The current slot number is the current position in the hopping sequence.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.



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Report No.: SZCR240400143802

Page: 14 of 150

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

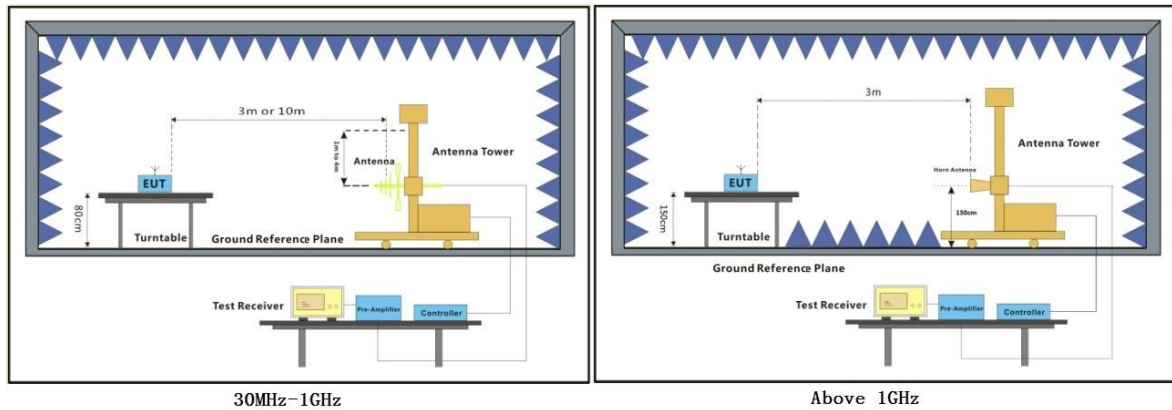
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.



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7.1.3 Test Setup Diagram



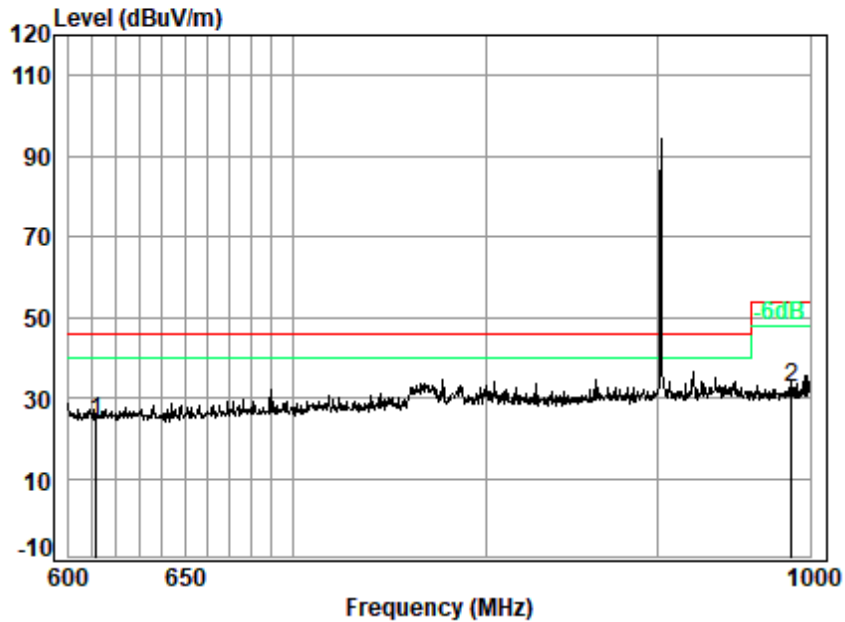
7.1.4 Measurement Procedure and Data

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

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

Remark 2: 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.



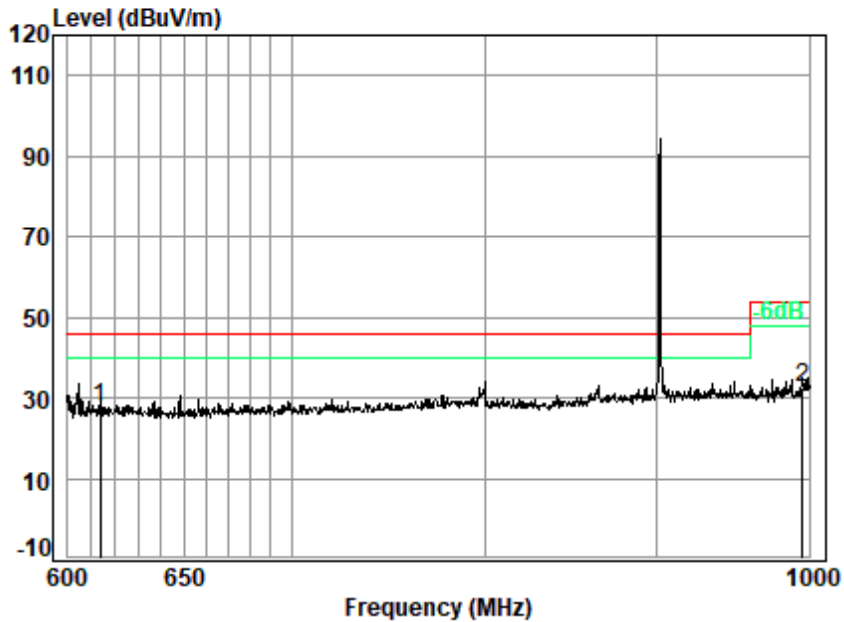


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 01
 : 902.3M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	611.45	24.78	3.24	27.94	23.89	23.97	46.00 -22.03 QP
2 q	987.31	28.08	4.32	26.14	26.17	32.43	54.00 -21.57 QP



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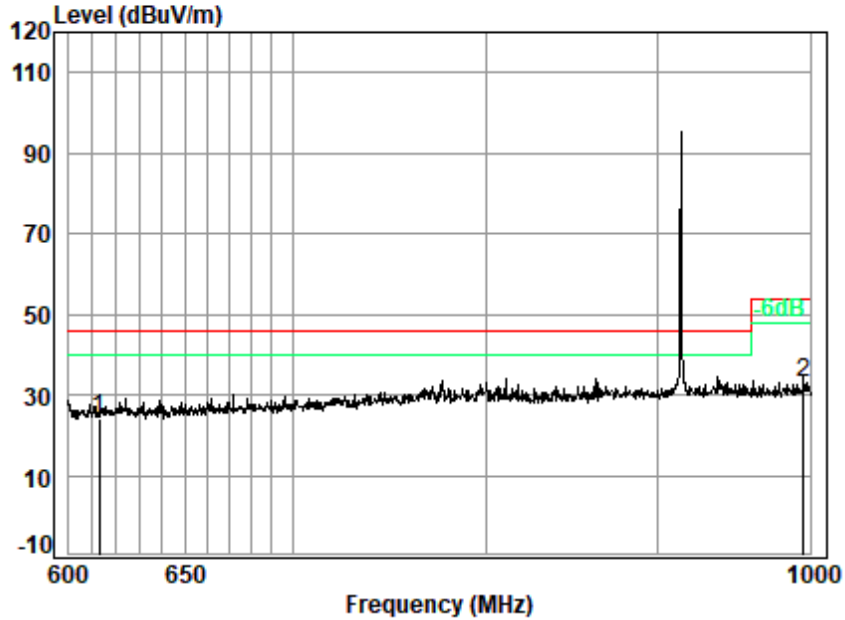


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 902.3M

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	613.64	24.90	3.25	27.94	27.23	27.44	46.00	-18.56 QP
2	995.41	28.15	4.34	26.08	26.34	32.75	54.00	-21.25 QP



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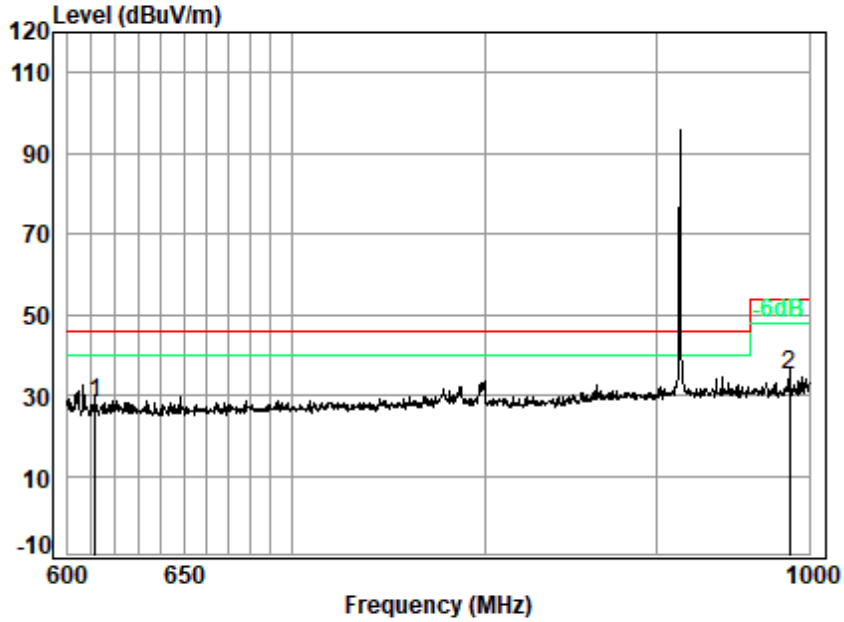


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 01
 : 914.9M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	612.70	24.85	3.25	27.94	23.90	24.06	46.00 -21.94 QP
2 q	995.41	28.15	4.34	26.08	26.81	33.22	54.00 -20.78 QP



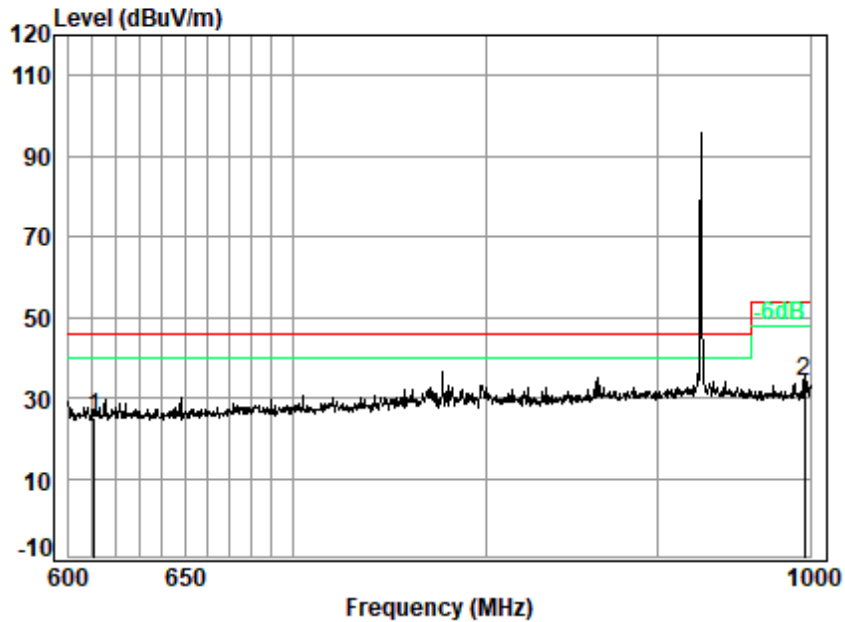
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Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 914.9M

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	611.45	24.78	3.24	27.94	28.03	28.11	46.00	-17.89 QP
2	986.30	28.07	4.31	26.15	28.70	34.93	54.00	-19.07 QP



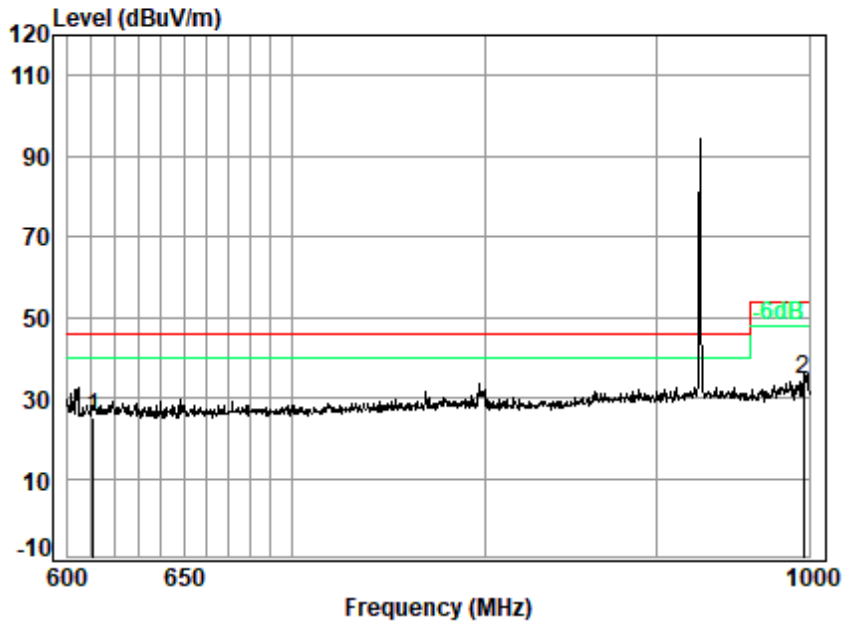


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 01
 : 927.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	610.51	24.74	3.24	27.94	24.94	24.98	46.00 -21.02 QP
2 q	996.43	28.17	4.34	26.08	27.35	33.78	54.00 -20.22 QP



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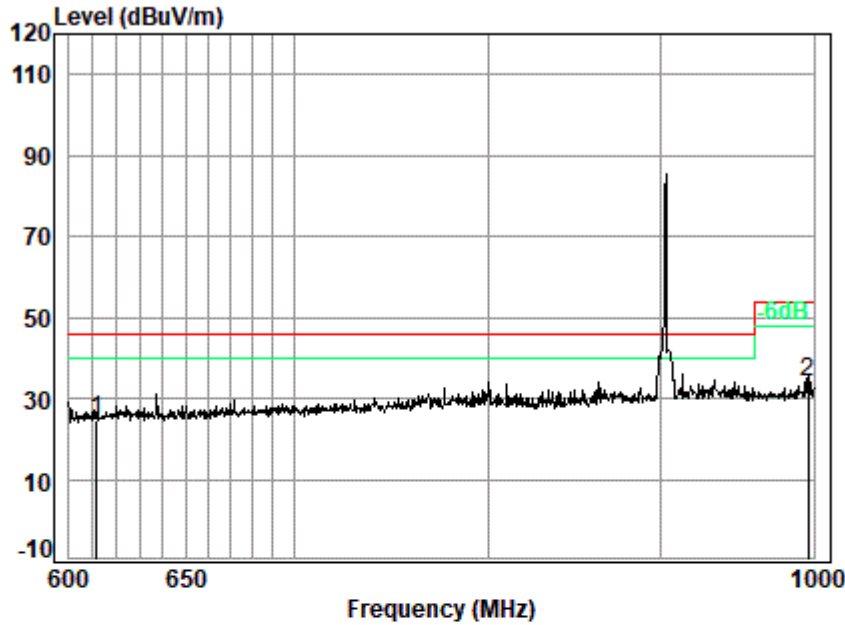


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 927.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	610.51	24.74	3.24	27.94	24.96	25.00	46.00 -21.00 QP
2 q	995.92	28.17	4.34	26.08	27.97	34.40	54.00 -19.60 QP



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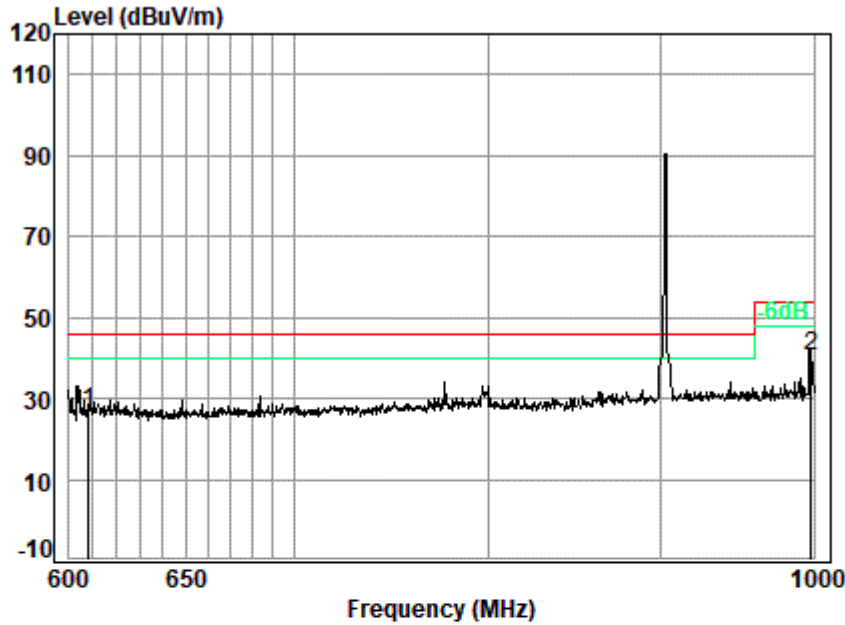


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 04
 : 903M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	611.45	24.78	3.24	27.94	24.46	24.54	46.00 -21.46 QP
2 q	995.92	28.17	4.34	26.08	27.47	33.90	54.00 -20.10 QP



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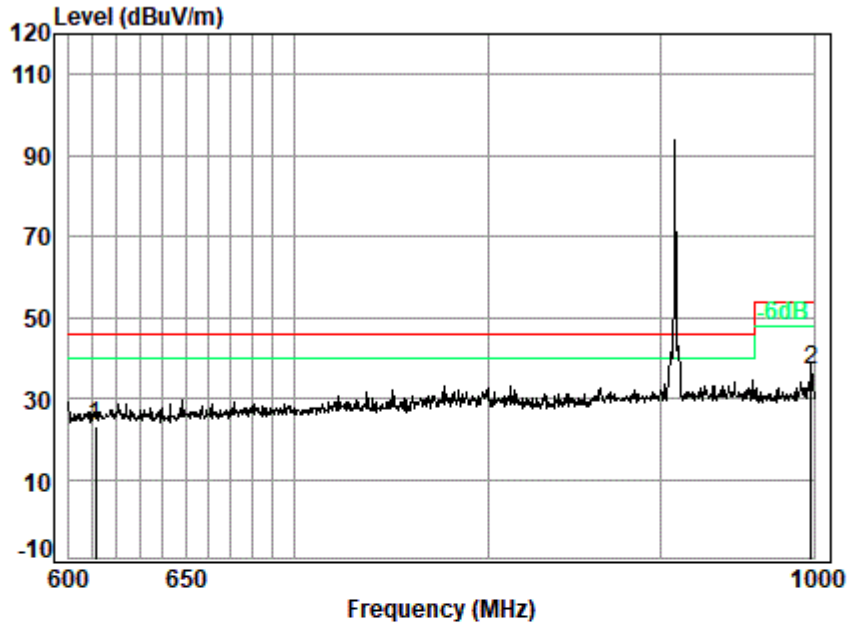


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 903M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.02	24.63	3.23	27.95	26.57	26.48	46.00 -19.52 QP
2 q	998.47	28.18	4.35	26.06	34.05	40.52	54.00 -13.48 QP



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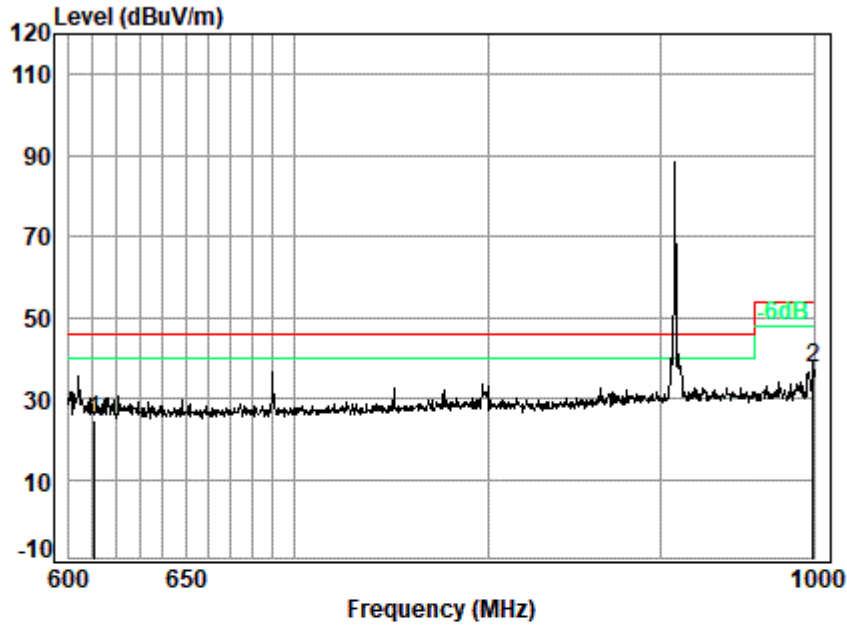


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 04
 : 909.4M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	611.14	24.77	3.24	27.94	22.88	46.00	-23.05 QP
2 q	998.47	28.18	4.35	26.06	30.41	54.00	-17.12 QP



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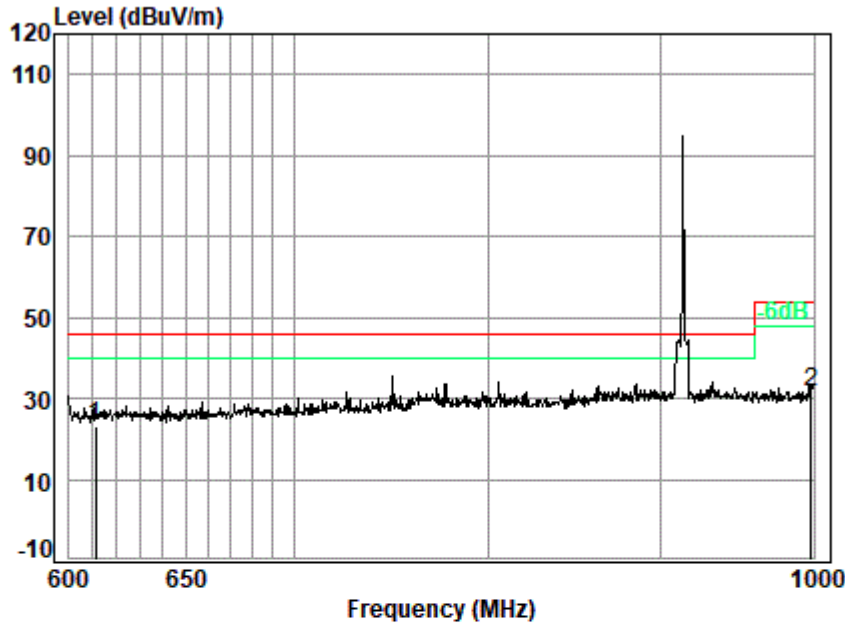


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 909.4M

	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	610.51	24.74	3.24	27.94	24.40	24.44	46.00	-21.56 QP
2 q	999.49	28.23	4.35	26.05	30.79	37.32	54.00	-16.68 QP



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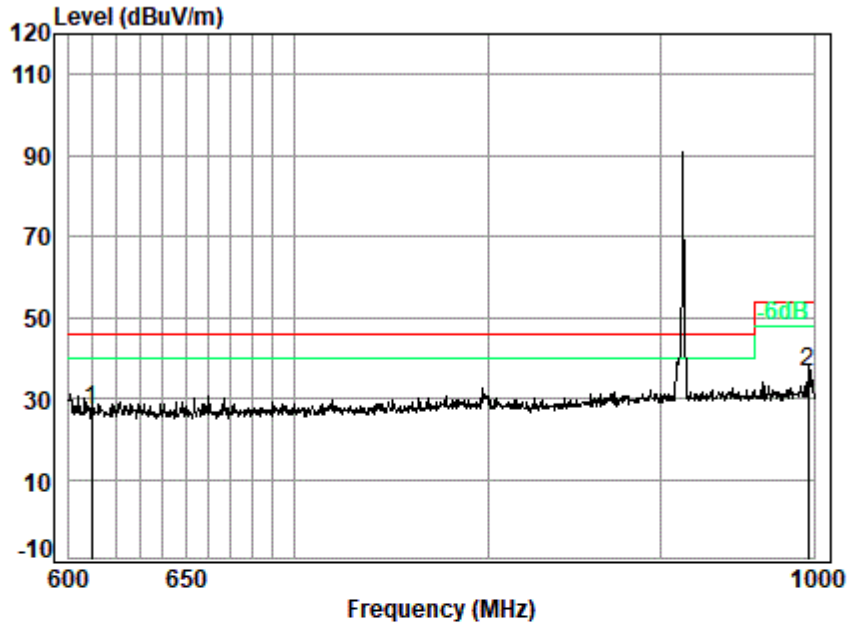


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 04
 : 914.2M

	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	611.14	24.77	3.24	27.94	23.20	23.27	46.00	-22.73 QP
2 q	998.47	28.18	4.35	26.06	25.21	31.68	54.00	-22.32 QP



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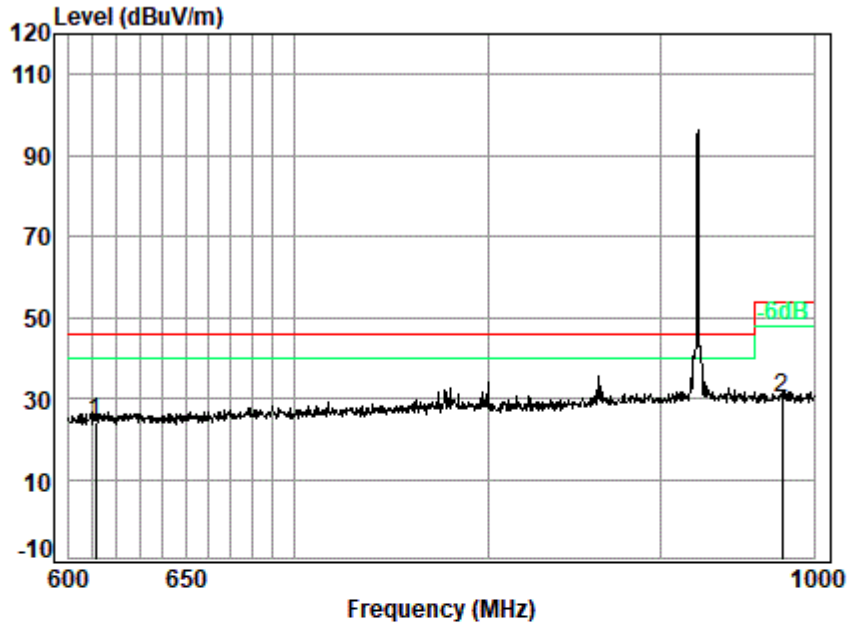
Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 914.2M

	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	609.27	24.68	3.24	27.95	26.98	26.95	46.00 -19.05 QP
2 q	996.43	28.17	4.34	26.08	29.81	36.24	54.00 -17.76 QP



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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

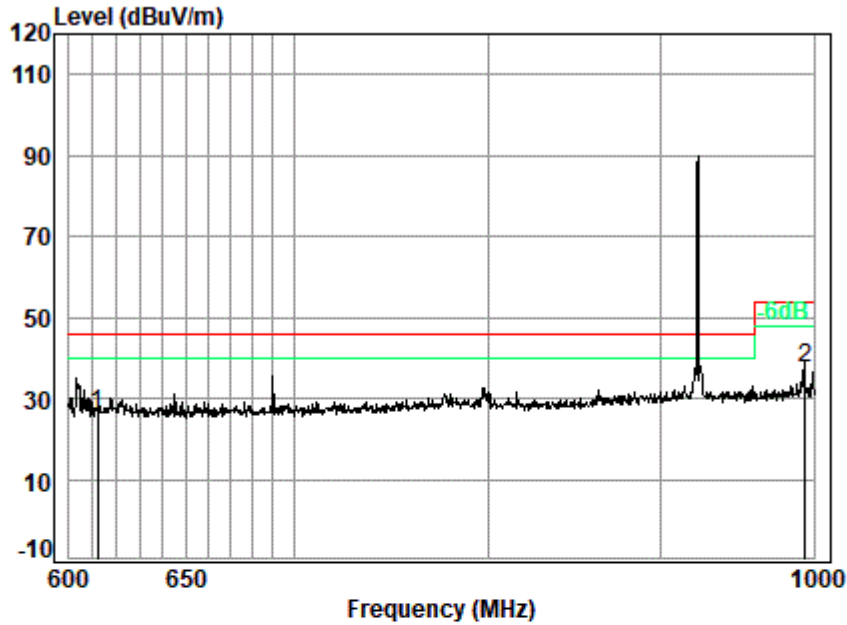


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 05
 : 923.3M

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	611.14	24.77	3.24	27.94	23.95	24.02	46.00 -21.98 QP
2	978.77	28.01	4.29	26.20	23.74	29.84	54.00 -24.16 QP



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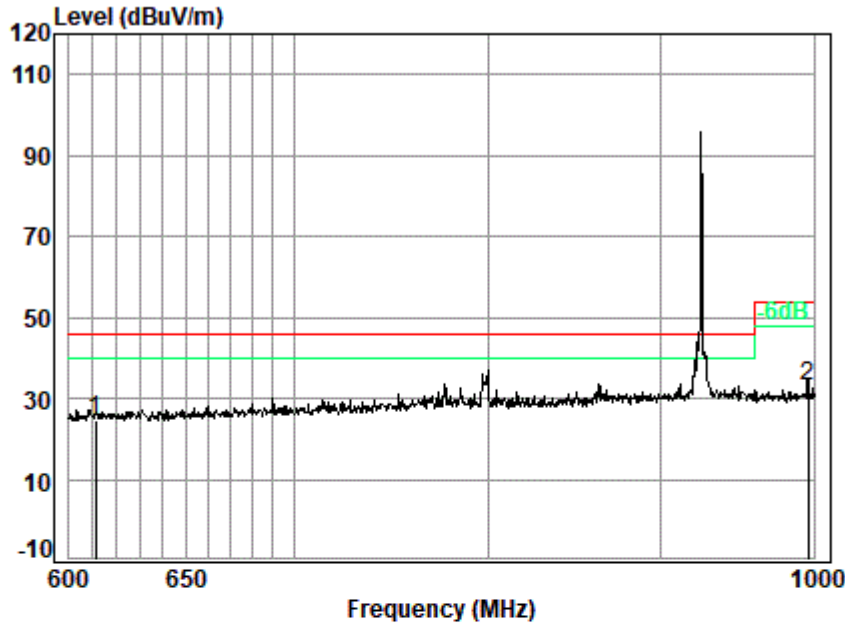


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 923.3M

	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	611.76	24.80	3.25	27.94	25.87	25.98	46.00	-20.02 QP
2 q	993.89	28.09	4.33	26.09	31.08	37.41	54.00	-16.59 QP



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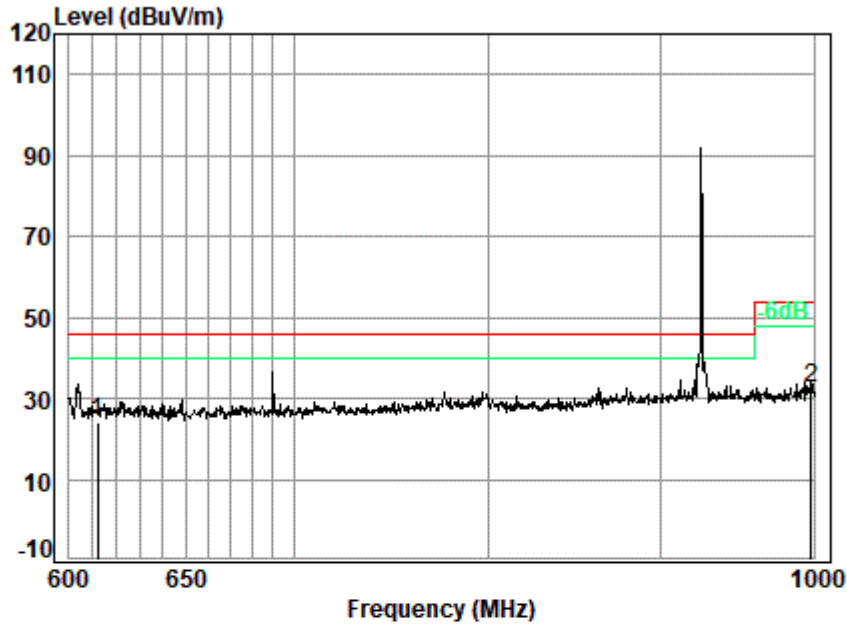


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 05
 : 925.7M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	611.14	24.77	3.24	27.94	24.35	24.42	46.00 -21.58 QP
2 q	995.92	28.17	4.34	26.08	26.48	32.91	54.00 -21.09 QP



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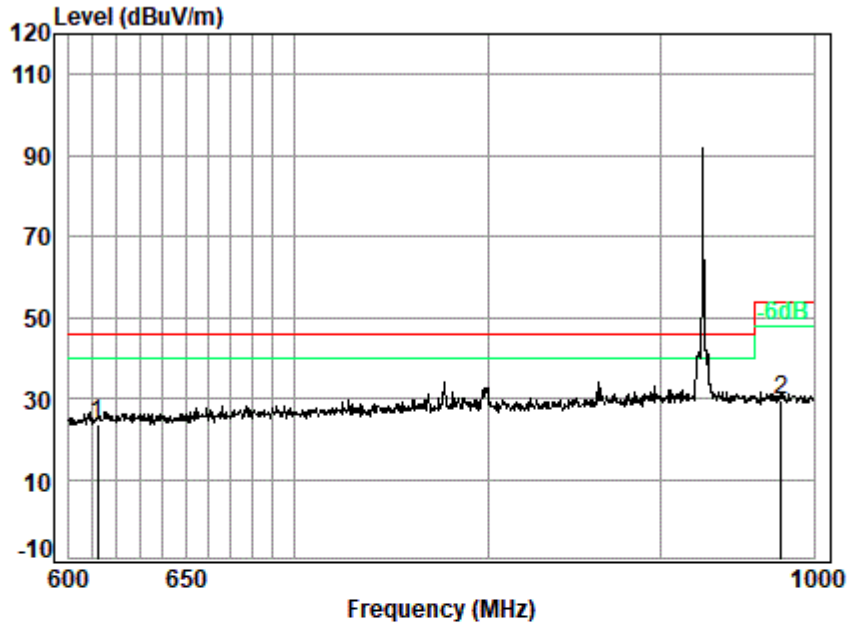


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 925.7M

	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	611.76	24.80	3.25	27.94	24.21	24.32	46.00 -21.68 QP
2 q	997.96	28.16	4.34	26.06	26.14	32.58	54.00 -21.42 QP



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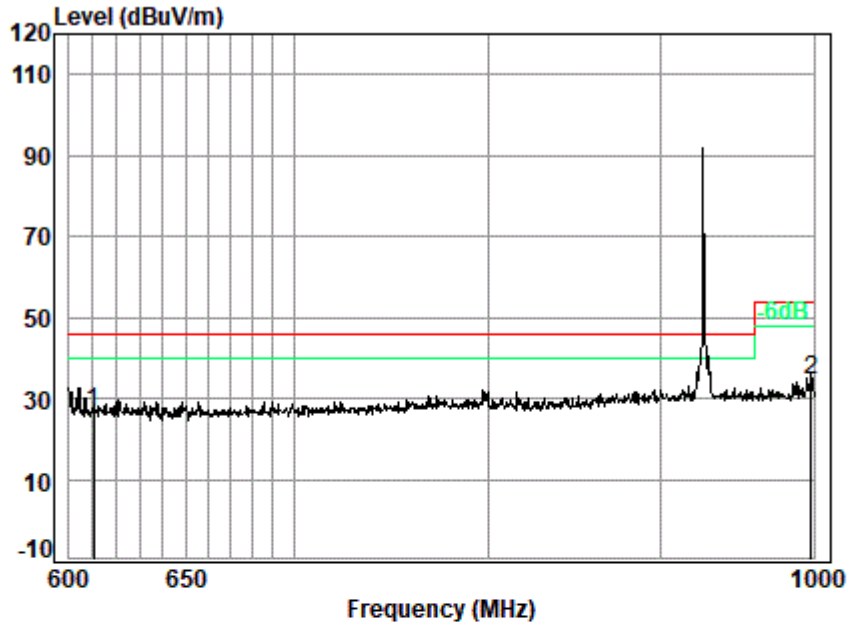


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 01438AT
 Mode : 05
 : 926.9M

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	611.76	24.80	3.25	27.94	23.56	23.67	46.00	-22.33 QP
2	977.77	28.01	4.29	26.21	23.49	29.58	54.00	-24.42 QP



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Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 926.9M

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	610.20	24.72	3.24	27.95	26.61	26.62	46.00	-19.38 QP
2	998.47	28.18	4.35	26.06	27.95	34.42	54.00	-19.58 QP



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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

7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

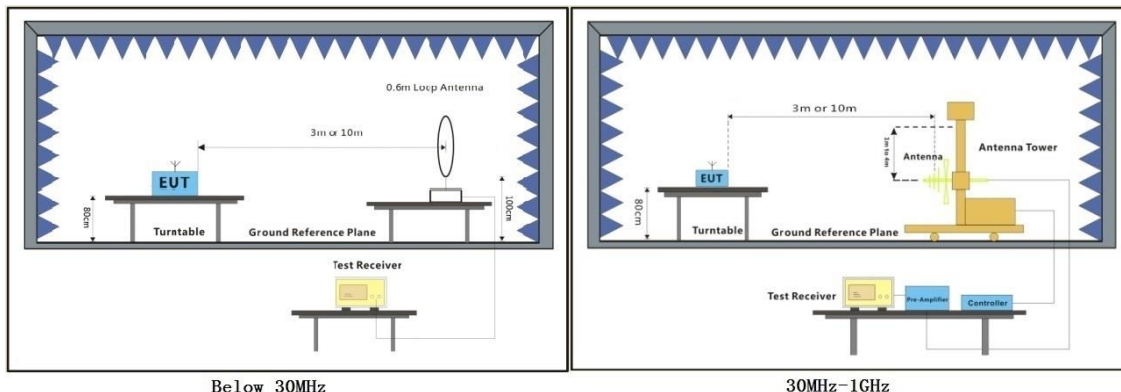
Humidity: 45.2 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.2.3 Test Setup Diagram



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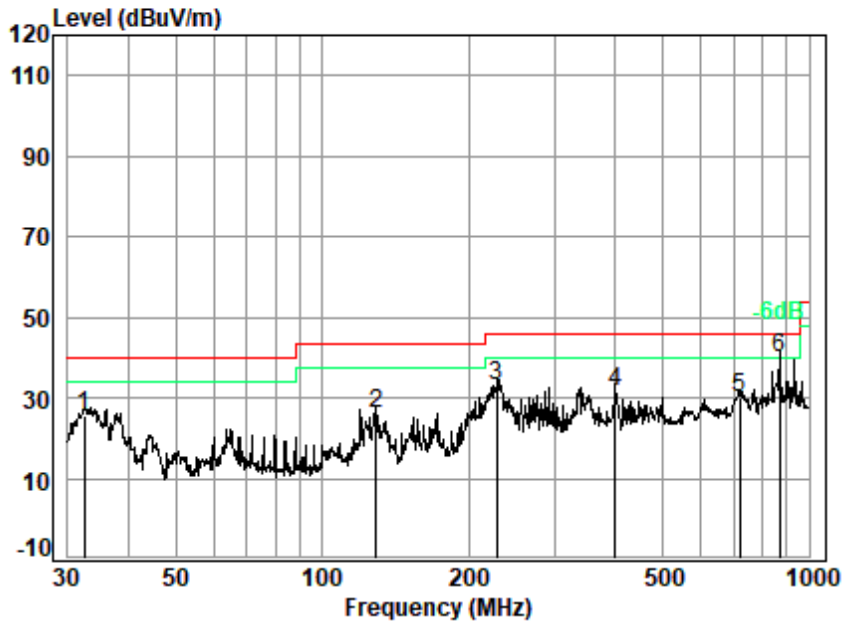
7.2.4 Measurement Procedure and Data

- 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. 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. 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.

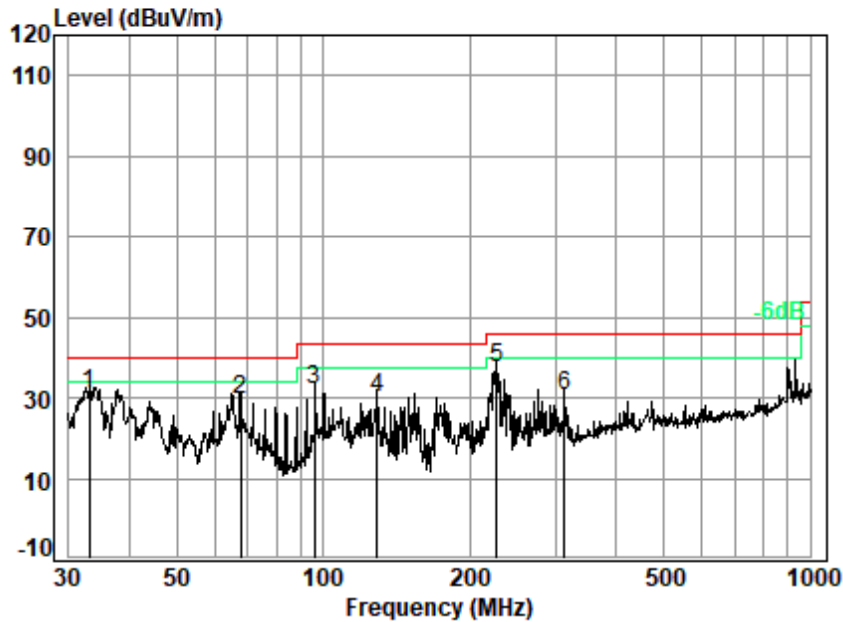




Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 01
 : 902.3M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Limit Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.41	20.10	0.67	27.79	32.56	25.54	40.00 -14.46 QP
2	129.01	11.00	1.35	27.47	40.96	25.84	43.50 -17.66 QP
3	228.49	16.22	1.86	27.05	41.90	32.93	46.00 -13.07 QP
4	400.43	20.60	2.55	27.16	35.36	31.35	46.00 -14.65 QP
5	719.20	26.25	3.57	27.68	27.92	30.06	46.00 -15.94 QP
6 q	869.13	27.65	4.01	26.99	35.43	40.10	46.00 -5.90 QP



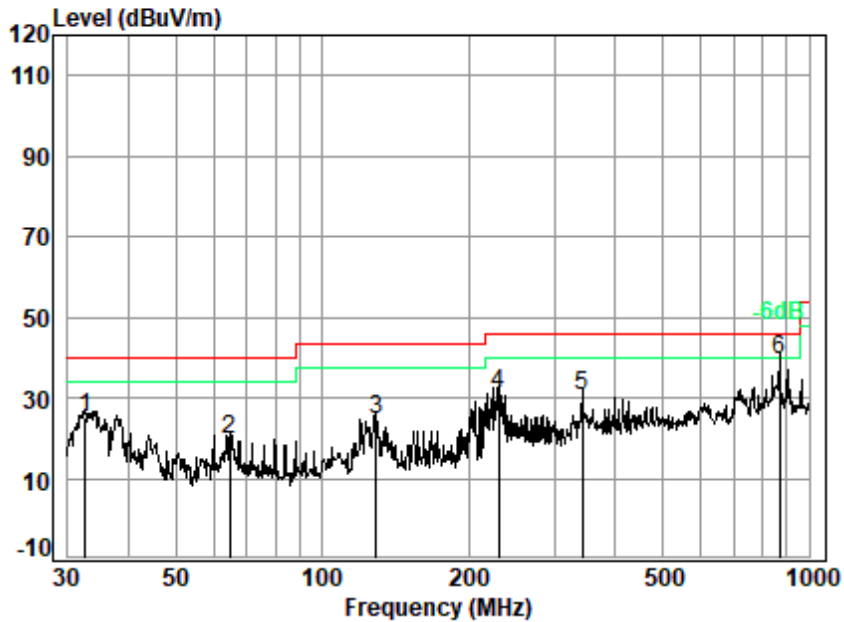


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 902.3M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.09	19.81	0.67	27.78	38.12	30.82	40.00 -9.18 QP
2	67.68	10.75	0.97	27.68	45.27	29.31	40.00 -10.69 QP
3	96.10	12.17	1.17	27.60	46.06	31.80	43.50 -11.70 QP
4	129.01	11.00	1.35	27.47	45.05	29.93	43.50 -13.57 QP
5 q	226.89	15.99	1.85	27.06	46.82	37.60	46.00 -8.40 QP
6	313.28	18.39	2.22	26.80	36.75	30.56	46.00 -15.44 QP



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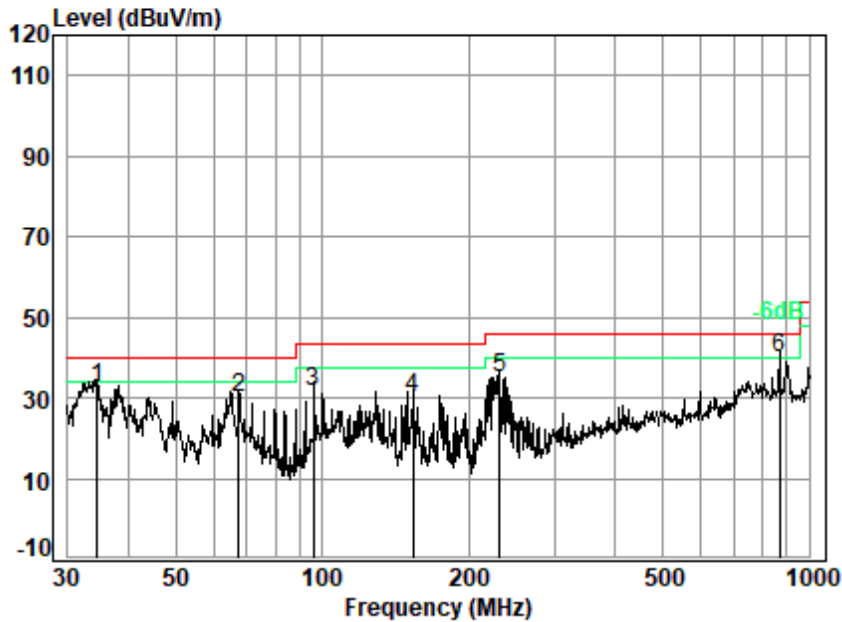


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 01
 : 914.9M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.52	20.05	0.67	27.78	32.32	40.00	-14.74 QP
2	64.43	11.07	0.95	27.69	35.50	40.00	-20.17 QP
3	129.01	11.00	1.35	27.47	39.49	43.50	-19.13 QP
4	230.10	16.47	1.86	27.04	39.66	46.00	-15.05 QP
5	341.98	19.23	2.33	26.92	35.87	46.00	-15.49 QP
6 q	869.13	27.65	4.01	26.99	34.82	46.00	-6.51 QP



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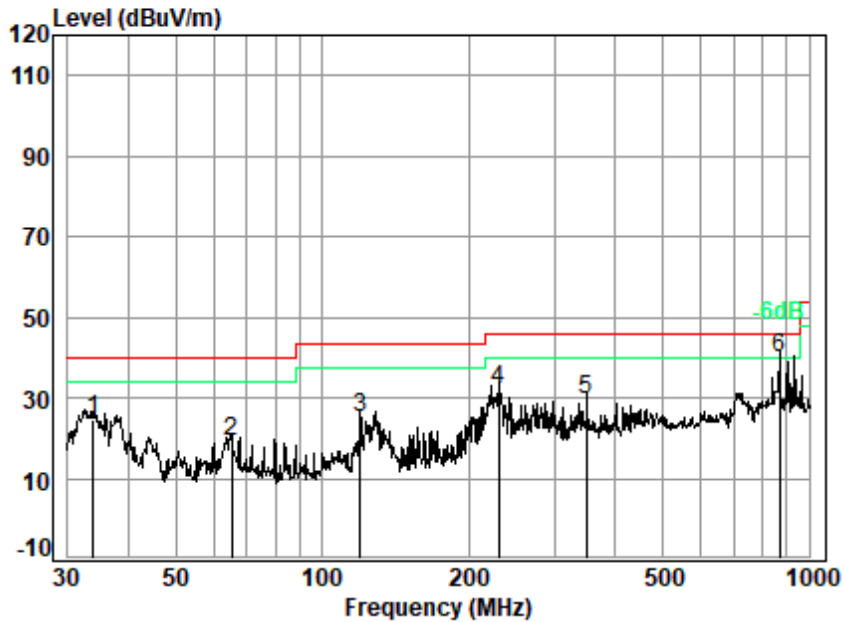


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 914.9M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.52	19.14	0.69	27.78	40.66	32.71	40.00 -7.29 QP
2	67.44	10.78	0.97	27.68	46.03	30.10	40.00 -9.90 QP
3	96.10	12.17	1.17	27.60	46.01	31.75	43.50 -11.75 QP
4	153.74	13.43	1.48	27.36	42.35	29.90	43.50 -13.60 QP
5	230.91	16.61	1.87	27.04	43.33	34.77	46.00 -11.23 QP
6 q	869.13	27.65	4.01	26.99	35.05	39.72	46.00 -6.28 QP



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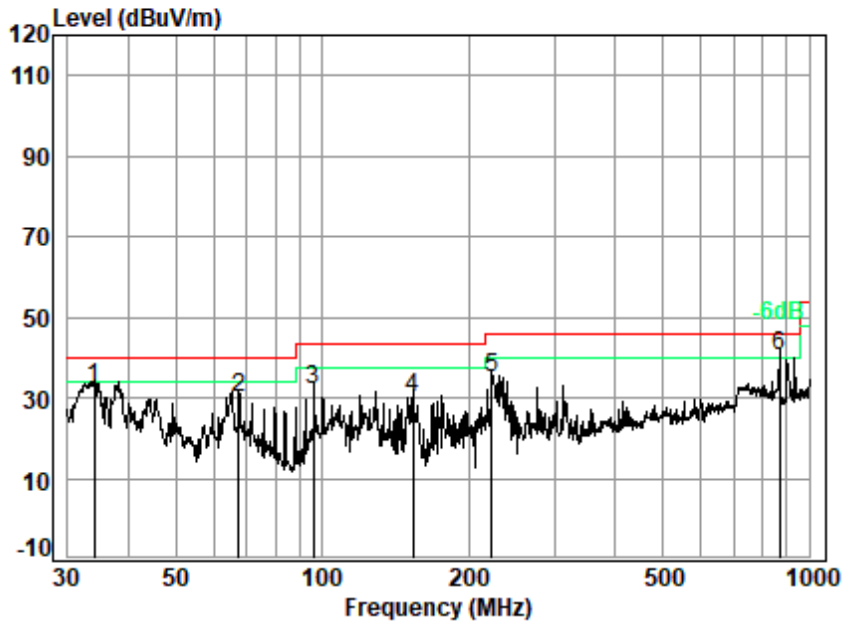


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 01
 : 927.6M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.92	19.46	0.68	27.78	32.24	40.00	-15.40 QP
2	65.11	11.01	0.96	27.69	34.75	40.00	-20.97 QP
3	119.86	11.11	1.30	27.51	40.06	43.50	-18.54 QP
4	230.10	16.47	1.86	27.04	40.59	46.00	-14.12 QP
5	349.25	19.88	2.36	26.95	34.40	46.00	-16.31 QP
6 q	869.13	27.65	4.01	26.99	35.31	46.00	-6.02 QP



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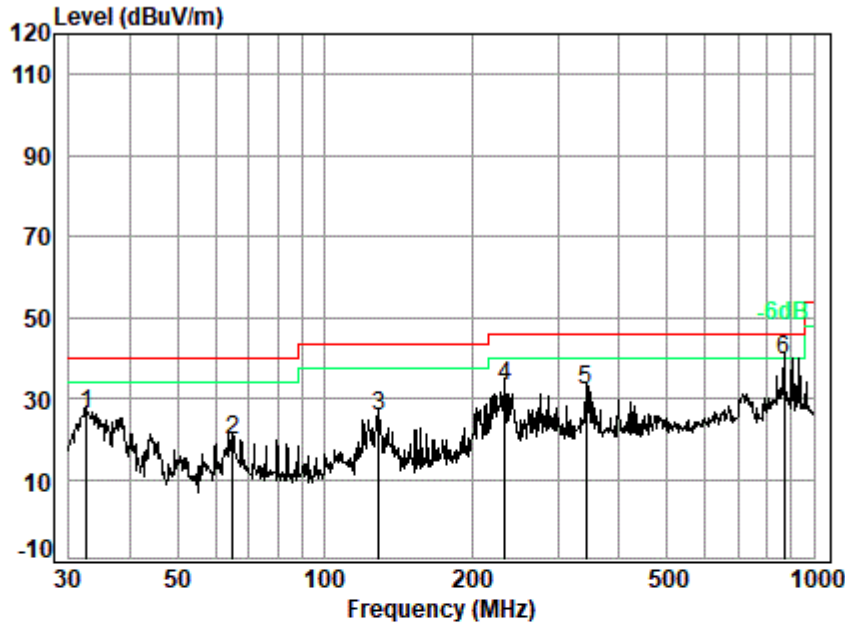
Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 01
 : 927.6M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.04	19.41	0.68	27.78	40.01	32.32	40.00 -7.68 QP
2	67.44	10.78	0.97	27.68	45.91	29.98	40.00 -10.02 QP
3	96.10	12.17	1.17	27.60	46.11	31.85	43.50 -11.65 QP
4	153.74	13.43	1.48	27.36	42.59	30.14	43.50 -13.36 QP
5	222.95	15.47	1.83	27.07	44.62	34.85	46.00 -11.15 QP
6 q	869.13	27.65	4.01	26.99	35.56	40.23	46.00 -5.77 QP



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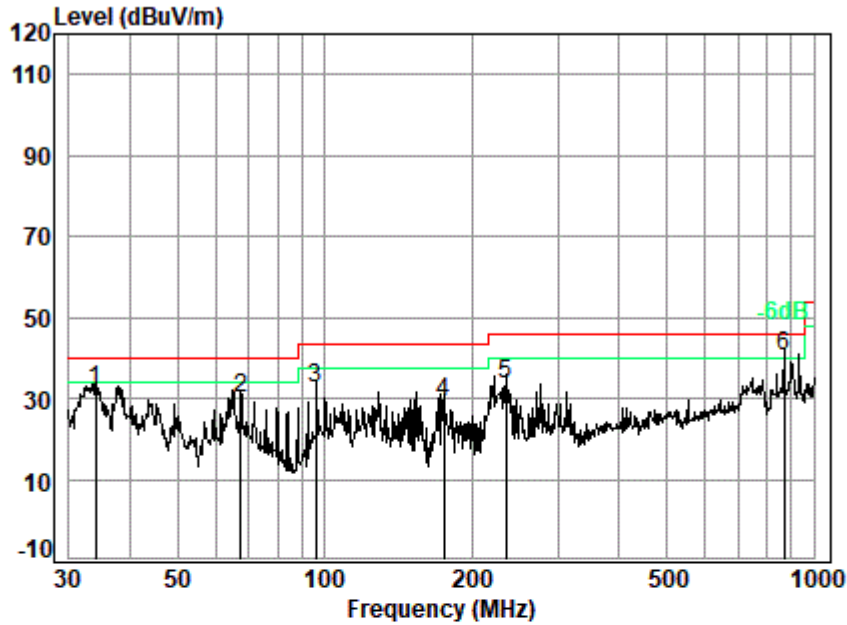


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 04
 : 903M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.52	20.05	0.67	27.78	33.00	25.94	40.00	-14.06 QP
2	64.89	11.03	0.95	27.69	35.30	19.59	40.00	-20.41 QP
3	129.01	11.00	1.35	27.47	40.81	25.69	43.50	-17.81 QP
4	233.35	16.94	1.88	27.03	41.14	32.93	46.00	-13.07 QP
5	341.98	19.23	2.33	26.92	37.43	32.07	46.00	-13.93 QP
6 q	869.13	27.65	4.01	26.99	34.86	39.53	46.00	-6.47 QP



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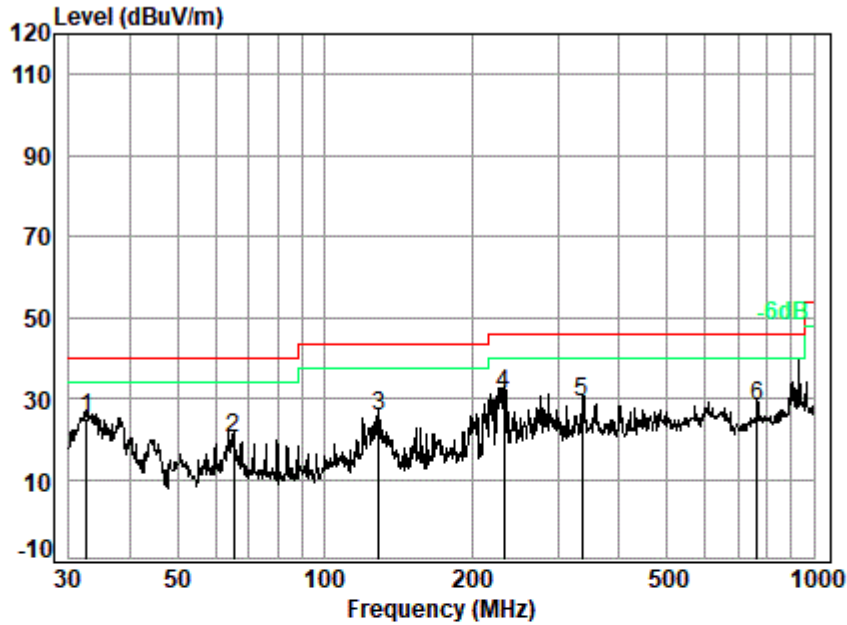


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 903M TX RSE

	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	34.04	19.41	0.68	27.78	39.80	32.11	40.00	-7.89 QP
2	67.44	10.78	0.97	27.68	45.93	30.00	40.00	-10.00 QP
3	96.10	12.17	1.17	27.60	46.63	32.37	43.50	-11.13 QP
4	175.04	13.78	1.60	27.27	41.05	29.16	43.50	-14.34 QP
5	234.99	17.06	1.88	27.02	41.81	33.73	46.00	-12.27 QP
6 q	869.13	27.65	4.01	26.99	35.52	40.19	46.00	-5.81 QP



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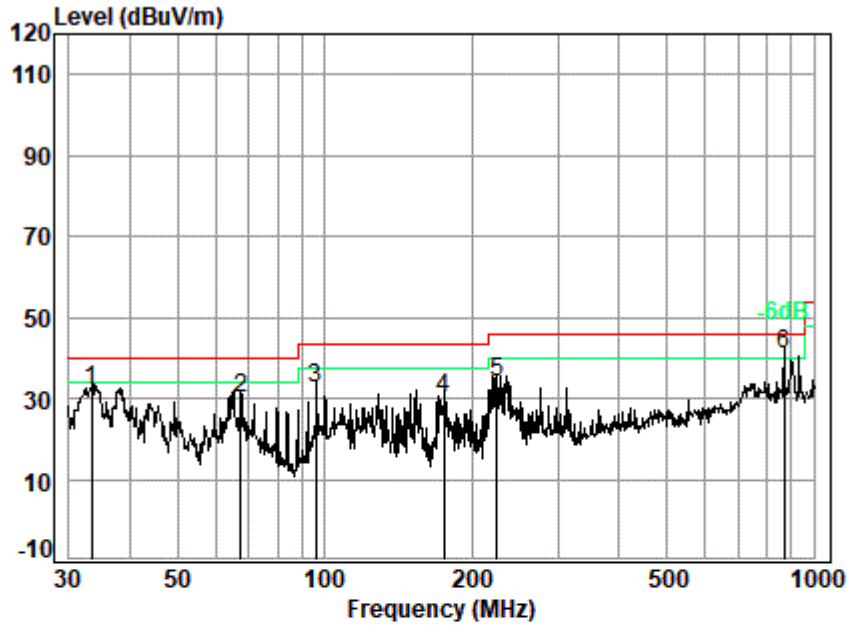


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 04
 : 909.4M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	32.52	20.05	0.67	27.78	32.19	25.13	40.00	-14.87 QP
2	65.11	11.01	0.96	27.69	36.06	20.34	40.00	-19.66 QP
3	129.01	11.00	1.35	27.47	40.77	25.65	43.50	-17.85 QP
4	232.53	16.86	1.87	27.03	39.32	31.02	46.00	-14.98 QP
5	336.04	18.86	2.31	26.90	34.99	29.26	46.00	-16.74 QP
6	766.06	26.54	3.72	27.56	25.20	27.90	46.00	-18.10 QP



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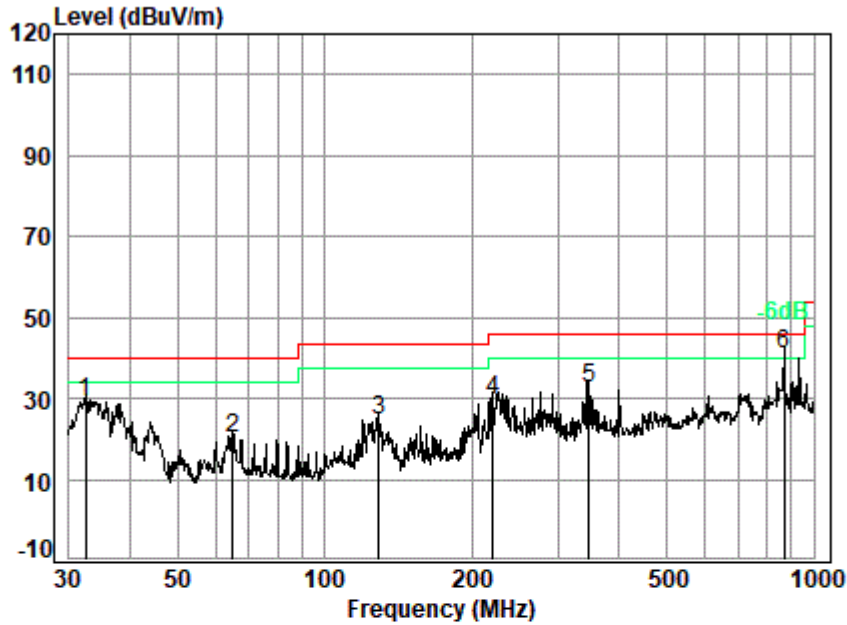


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 909.4M TX RSE

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.44	19.66	0.68	27.78	39.27	31.83	40.00 -8.17 QP
2	67.44	10.78	0.97	27.68	46.17	30.24	40.00 -9.76 QP
3	96.10	12.17	1.17	27.60	46.61	32.35	43.50 -11.15 QP
4	175.65	13.83	1.60	27.27	41.81	29.97	43.50 -13.53 QP
5	225.31	15.77	1.84	27.06	43.49	34.04	46.00 -11.96 QP
6 q	869.13	27.65	4.01	26.99	36.03	40.70	46.00 -5.30 QP



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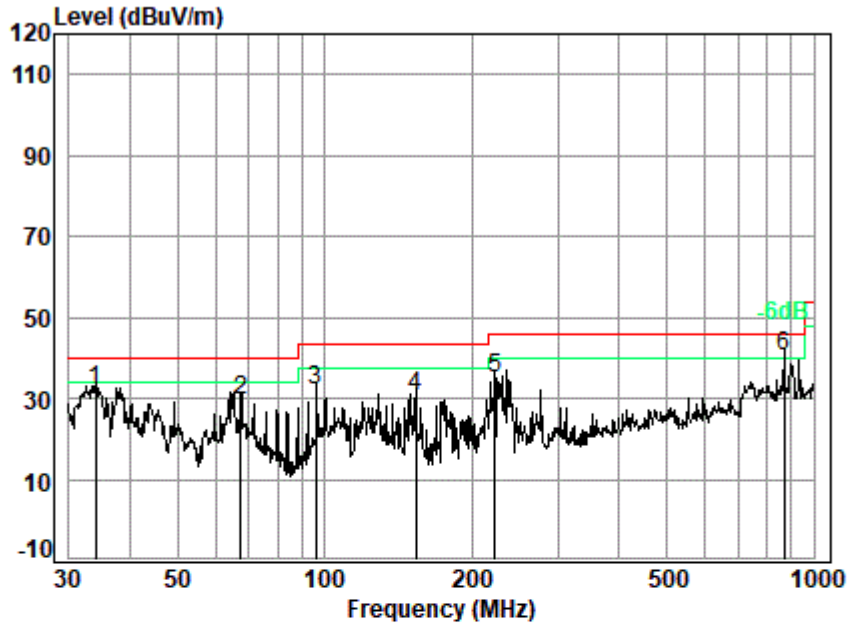


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 04
 : 914.2M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.41	20.10	0.67	27.79	35.85	28.83	40.00	-11.17 QP
2	64.89	11.03	0.95	27.69	35.71	20.00	40.00	-20.00 QP
3	129.01	11.00	1.35	27.47	39.76	24.64	43.50	-18.86 QP
4	220.62	15.21	1.82	27.08	39.61	29.56	46.00	-16.44 QP
5	346.81	19.70	2.35	26.94	37.57	32.68	46.00	-13.32 QP
6 q	869.13	27.65	4.01	26.99	36.00	40.67	46.00	-5.33 QP



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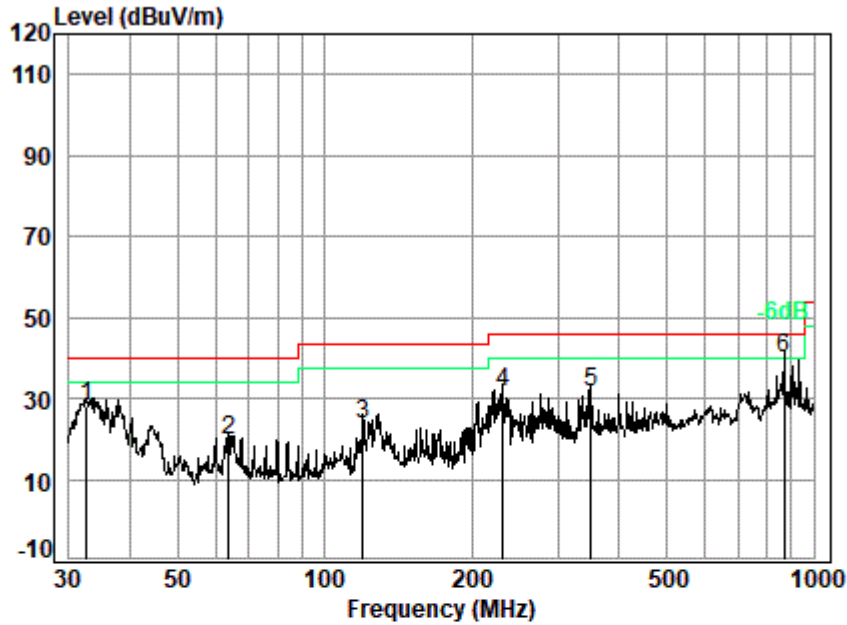


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 04
 : 914.2M TX RSE

	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	34.04	19.41	0.68	27.78	39.88	32.19	40.00	-7.81 QP
2	67.44	10.78	0.97	27.68	45.52	29.59	40.00	-10.41 QP
3	96.10	12.17	1.17	27.60	46.36	32.10	43.50	-11.40 QP
4	153.74	13.43	1.48	27.36	43.13	30.68	43.50	-12.82 QP
5	222.95	15.47	1.83	27.07	44.59	34.82	46.00	-11.18 QP
6 q	869.13	27.65	4.01	26.99	35.68	40.35	46.00	-5.65 QP



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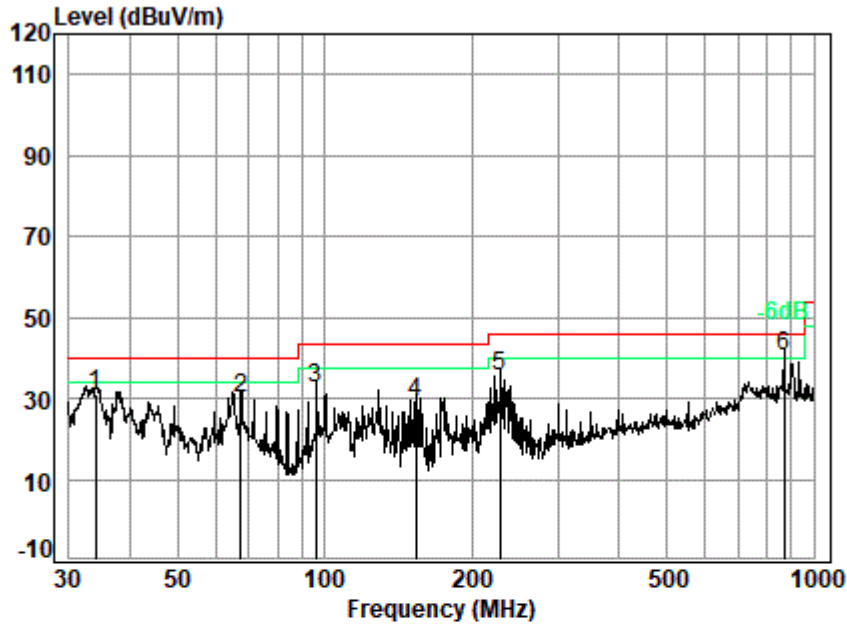


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 05
 : 923.3M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.52	20.05	0.67	27.78	35.17	28.11	40.00	-11.89 QP
2	63.76	11.13	0.95	27.69	35.07	19.46	40.00	-20.54 QP
3	119.86	11.11	1.30	27.51	38.95	23.85	43.50	-19.65 QP
4	231.72	16.75	1.87	27.04	39.97	31.55	46.00	-14.45 QP
5	350.48	19.94	2.36	26.96	36.24	31.58	46.00	-14.42 QP
6 q	869.13	27.65	4.01	26.99	35.07	39.74	46.00	-6.26 QP



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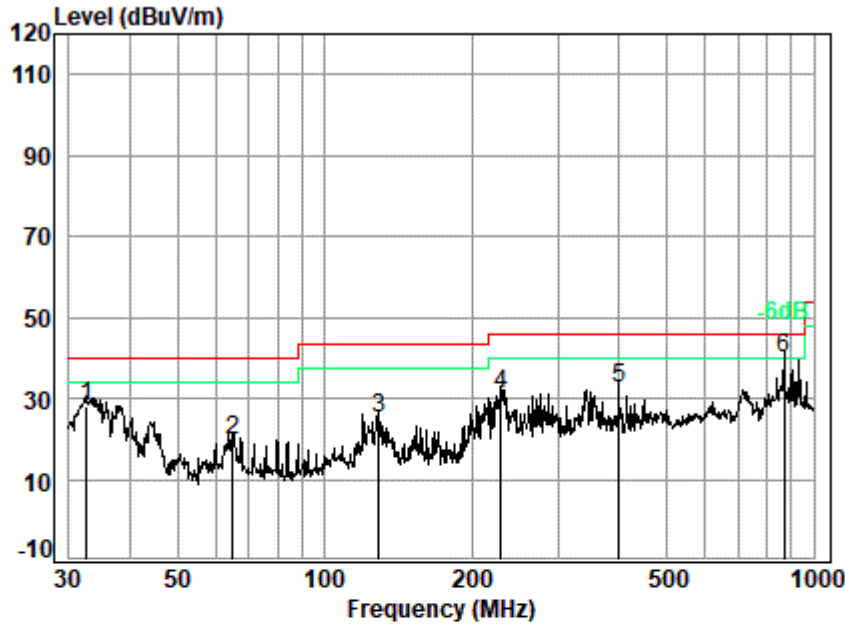


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 923.3M TX RSE

	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	34.04	19.41	0.68	27.78	38.54	30.85	40.00	-9.15 QP
2	67.44	10.78	0.97	27.68	45.92	29.99	40.00	-10.01 QP
3	96.10	12.17	1.17	27.60	46.57	32.31	43.50	-11.19 QP
4	153.74	13.43	1.48	27.36	41.67	29.22	43.50	-14.28 QP
5	228.49	16.22	1.86	27.05	44.25	35.28	46.00	-10.72 QP
6 q	869.13	27.65	4.01	26.99	35.57	40.24	46.00	-5.76 QP



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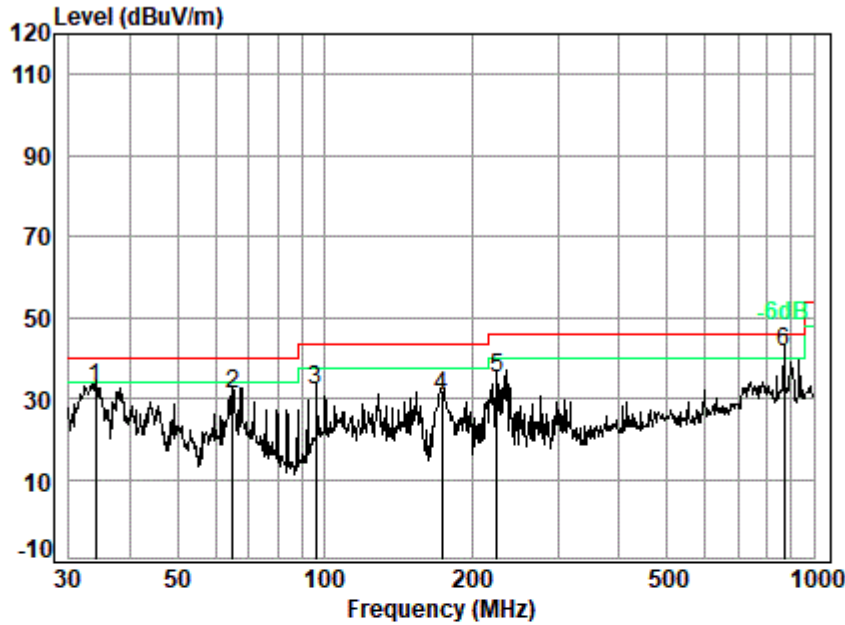


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 05
 : 925.7M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.52	20.05	0.67	27.78	35.36	28.30	40.00	-11.70 QP
2	64.89	11.03	0.95	27.69	35.14	19.43	40.00	-20.57 QP
3	129.01	11.00	1.35	27.47	39.97	24.85	43.50	-18.65 QP
4	229.29	16.34	1.86	27.05	40.04	31.19	46.00	-14.81 QP
5	399.03	20.63	2.55	27.15	36.54	32.57	46.00	-13.43 QP
6 q	869.13	27.65	4.01	26.99	35.44	40.11	46.00	-5.89 QP



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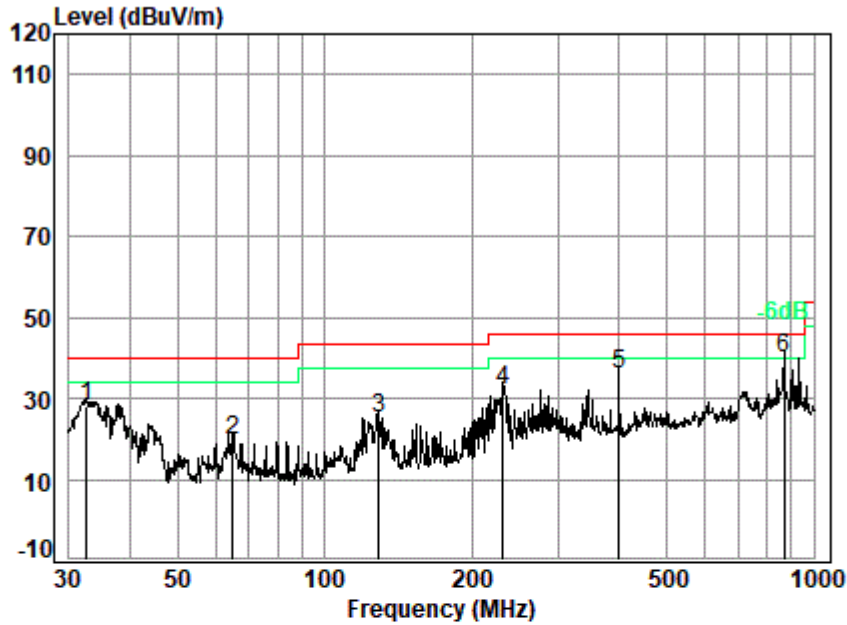


Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 925.7M TX RSE

	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	34.04	19.41	0.68	27.78	40.09	32.40	40.00	-7.60 QP
2	64.89	11.03	0.95	27.69	46.96	31.25	40.00	-8.75 QP
3	96.10	12.17	1.17	27.60	46.05	31.79	43.50	-11.71 QP
4	173.21	13.62	1.59	27.28	42.68	30.61	43.50	-12.89 QP
5	225.31	15.77	1.84	27.06	44.31	34.86	46.00	-11.14 QP
6 q	869.13	27.65	4.01	26.99	36.53	41.20	46.00	-4.80 QP



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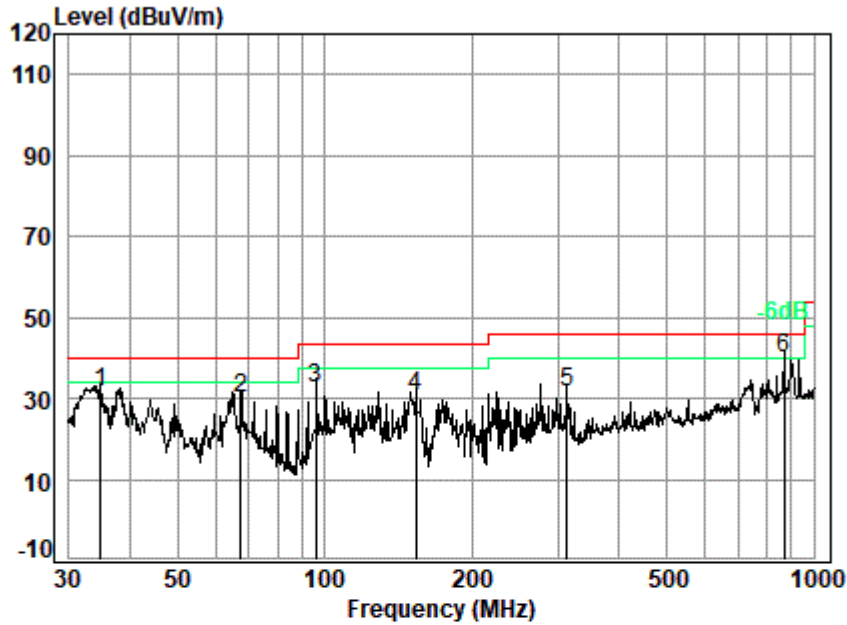


Site : chamber
 Condition: 3m Horizontal
 Job No. : 01438AT
 Mode : 05
 : 926.9M TX RSE

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.52	20.05	0.67	27.78	35.27	28.21	40.00	-11.79 QP
2	64.89	11.03	0.95	27.69	35.32	19.61	40.00	-20.39 QP
3	129.01	11.00	1.35	27.47	40.11	24.99	43.50	-18.51 QP
4	231.72	16.75	1.87	27.04	40.58	32.16	46.00	-13.84 QP
5	399.03	20.63	2.55	27.15	39.82	35.85	46.00	-10.15 QP
6 q	869.13	27.65	4.01	26.99	35.20	39.87	46.00	-6.13 QP



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Site : chamber
 Condition: 3m VERTICAL
 Job No. : 01438AT
 Mode : 05
 : 926.9M TX RSE

	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	34.88	18.94	0.69	27.78	39.50	31.35	40.00	-8.65 QP
2	67.44	10.78	0.97	27.68	45.98	30.05	40.00	-9.95 QP
3	96.10	12.17	1.17	27.60	47.02	32.76	43.50	-10.74 QP
4	153.74	13.43	1.48	27.36	42.90	30.45	43.50	-13.05 QP
5	312.18	18.38	2.22	26.80	37.51	31.31	46.00	-14.69 QP
6 q	869.13	27.65	4.01	26.99	35.44	40.11	46.00	-5.89 QP



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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

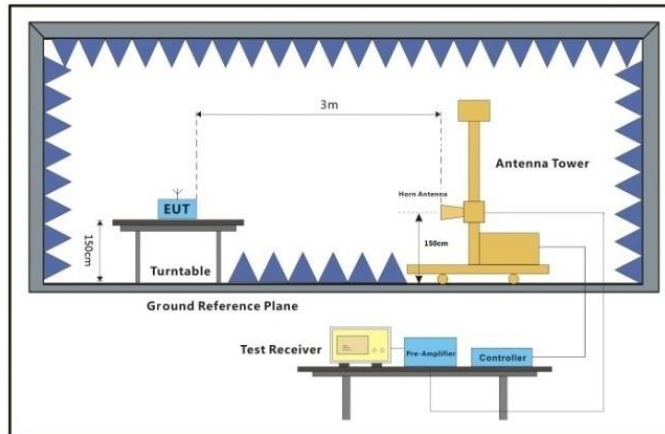
Humidity: 57.2 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.3.3 Test Setup Diagram



Above 1GHz



7.3.4 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:

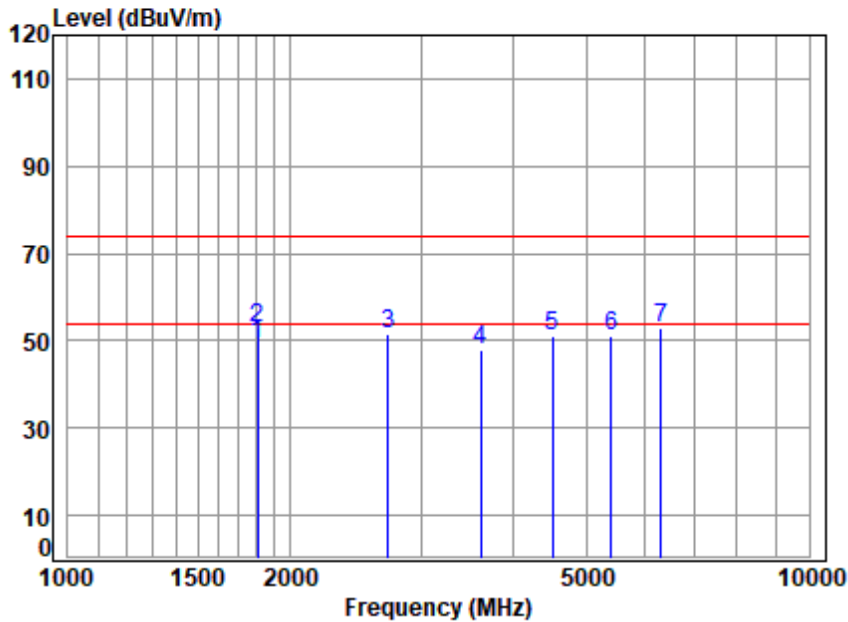
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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.



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 902.3M TX RSE

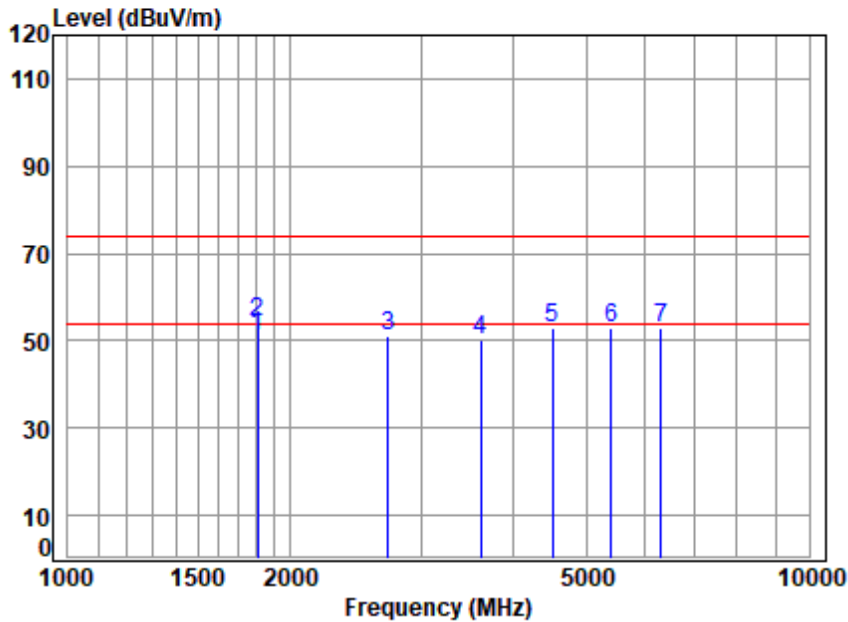
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	q 1804.600	4.46	27.00	38.43	56.24	49.27	54.00	-4.73 Average
2	1804.600	4.46	27.00	38.43	60.00	53.03	74.00	-20.97 Peak
3	2706.900	5.35	29.70	36.73	53.46	51.78	74.00	-22.22 Peak
4	3609.200	6.35	32.21	36.11	45.46	47.91	74.00	-26.09 Peak
5	4511.500	7.13	33.53	35.72	46.10	51.04	74.00	-22.96 Peak
6	5413.800	7.75	34.63	35.18	43.69	50.89	74.00	-23.11 Peak
7	p 6316.100	8.42	34.97	35.12	44.87	53.14	74.00	-20.86 Peak



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Test Mode: 01; Polarity: Vertical; Modulation:CSS; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 902.3M TX RSE

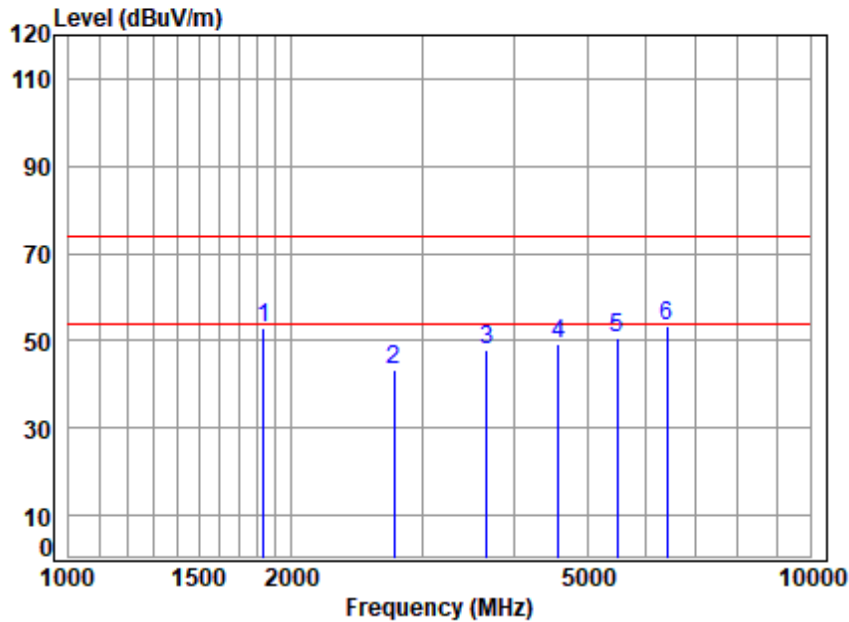
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 q	1804.600	4.46	27.00	38.43	57.97	51.00	54.00	-3.00 Average
2 p	1804.600	4.46	27.00	38.43	61.21	54.24	74.00	-19.76 Peak
3	2706.900	5.35	29.70	36.73	52.76	51.08	74.00	-22.92 Peak
4	3609.200	6.35	32.21	36.11	47.93	50.38	74.00	-23.62 Peak
5	4511.500	7.13	33.53	35.72	47.91	52.85	74.00	-21.15 Peak
6	5413.800	7.75	34.63	35.18	45.55	52.75	74.00	-21.25 Peak
7	6316.100	8.42	34.97	35.12	44.80	53.07	74.00	-20.93 Peak



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Test Mode: 01; Polarity: Horizontal; Modulation: CSS; Channel: middle



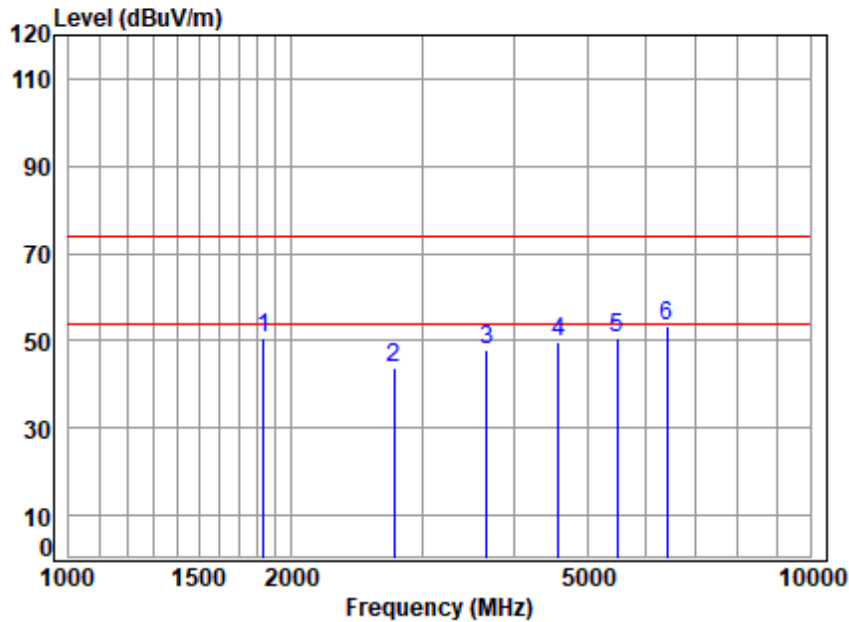
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 914.9M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1829.800	4.49	27.00	38.43	60.06	53.12	74.00	-20.88	Peak
2	2744.700	5.38	29.70	36.65	45.00	43.43	74.00	-30.57	Peak
3	3659.600	6.41	32.76	36.11	44.67	47.73	74.00	-26.27	Peak
4	4574.500	7.17	33.30	35.67	44.47	49.27	74.00	-24.73	Peak
5	5489.400	7.81	34.54	35.14	43.51	50.72	74.00	-23.28	Peak
6 p	6404.300	8.49	35.23	35.18	44.86	53.40	74.00	-20.60	Peak



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Test Mode: 01; Polarity: Vertical; Modulation:CSS; Channel:middle



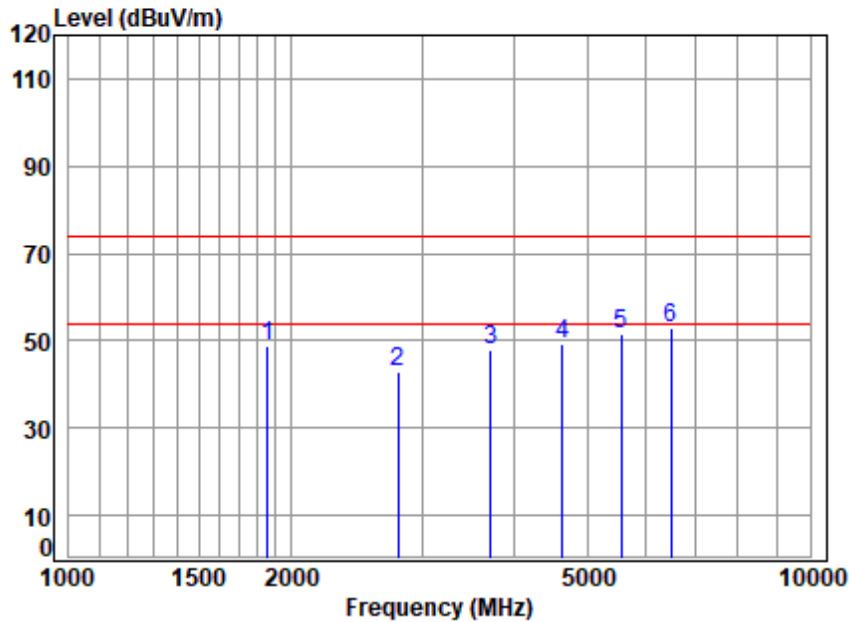
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 914.9M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1829.800	4.49	27.00	38.43	57.72	50.78	74.00	-23.22	Peak
2	2744.700	5.38	29.70	36.65	45.16	43.59	74.00	-30.41	Peak
3	3659.600	6.41	32.76	36.11	44.66	47.72	74.00	-26.28	Peak
4	4574.500	7.17	33.30	35.67	44.71	49.51	74.00	-24.49	Peak
5	5489.400	7.81	34.54	35.14	43.43	50.64	74.00	-23.36	Peak
6 p	6404.300	8.49	35.23	35.18	44.92	53.46	74.00	-20.54	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:CSS; Channel:High



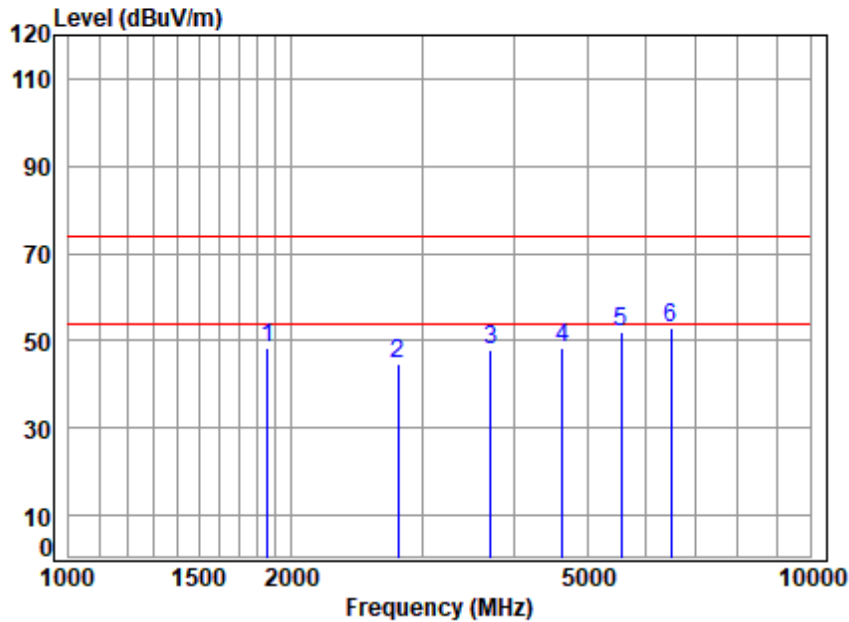
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 927.6M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1855.200	4.52	27.04	38.43	55.78	48.91	74.00	-25.09	Peak
2	2782.800	5.41	29.77	36.57	44.27	42.88	74.00	-31.12	Peak
3	3710.400	6.47	32.98	36.11	44.43	47.77	74.00	-26.23	Peak
4	4638.000	7.21	33.38	35.63	44.46	49.42	74.00	-24.58	Peak
5	5565.600	7.86	34.70	35.10	44.09	51.55	74.00	-22.45	Peak
6 p	6493.200	8.55	35.59	35.24	44.06	52.96	74.00	-21.04	Peak



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Test Mode: 01; Polarity: Vertical; Modulation:CSS; Channel:High



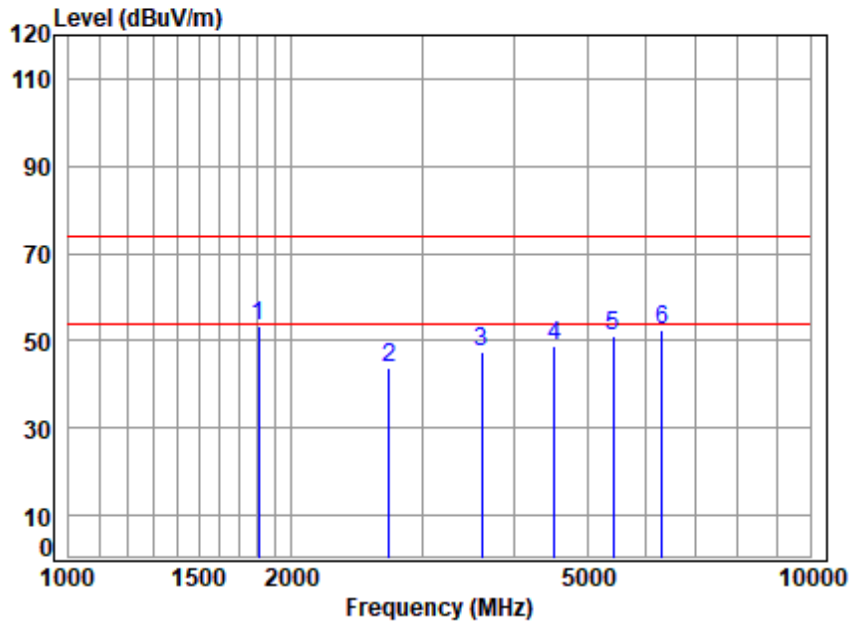
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 927.6M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1855.200	4.52	27.04	38.43	55.29	48.42	74.00	-25.58	Peak
2	2782.800	5.41	29.77	36.57	46.33	44.94	74.00	-29.06	Peak
3	3710.400	6.47	32.98	36.11	44.74	48.08	74.00	-25.92	Peak
4	4638.000	7.21	33.38	35.63	43.23	48.19	74.00	-25.81	Peak
5	5565.600	7.86	34.70	35.10	44.44	51.90	74.00	-22.10	Peak
6 p	6493.200	8.55	35.59	35.24	43.90	52.80	74.00	-21.20	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:CSS; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 903M TX RSE

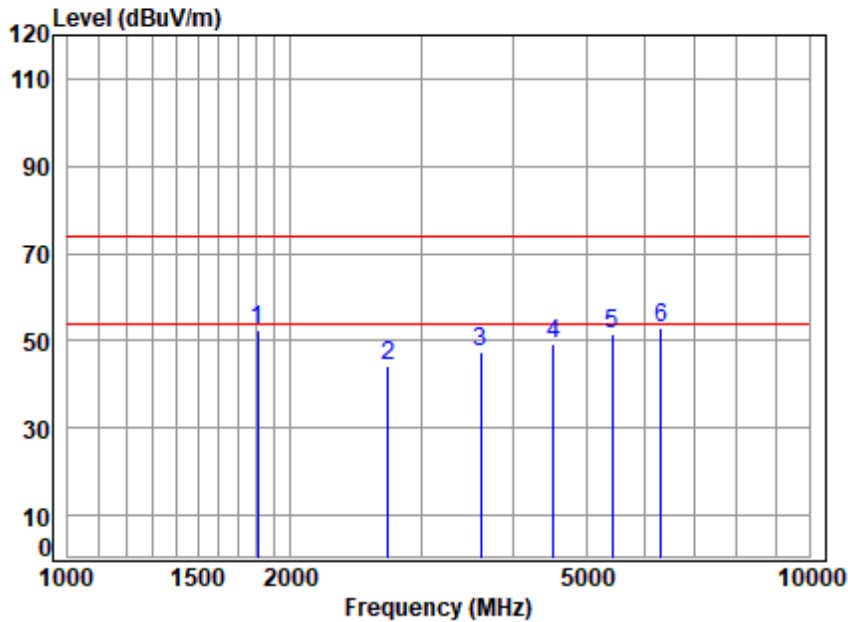
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	1806.000	4.46	27.00	38.43	60.37	53.40	74.00	-20.60	Peak
2	2709.000	5.35	29.70	36.72	45.64	43.97	74.00	-30.03	Peak
3	3612.000	6.35	32.24	36.11	44.88	47.36	74.00	-26.64	Peak
4	4515.000	7.13	33.51	35.71	43.86	48.79	74.00	-25.21	Peak
5	5418.000	7.76	34.64	35.17	43.69	50.92	74.00	-23.08	Peak
6	6321.000	8.42	34.96	35.13	44.43	52.68	74.00	-21.32	Peak



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Test Mode: 04; Polarity: Vertical; Modulation:CSS; Channel:Low



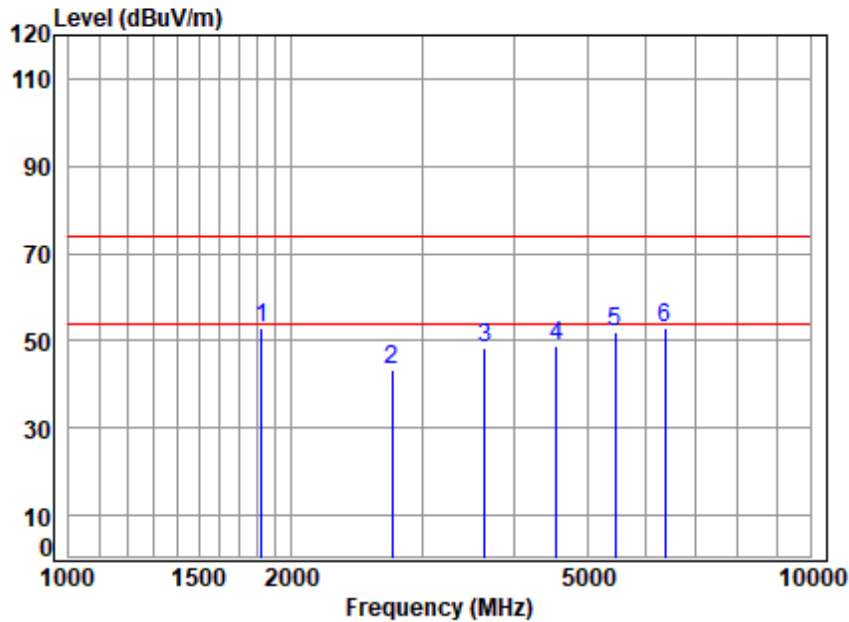
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 903M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1806.000	4.46	27.00	38.43	59.64	52.67	74.00	-21.33	Peak
2	2709.000	5.35	29.70	36.72	46.11	44.44	74.00	-29.56	Peak
3	3612.000	6.35	32.24	36.11	45.14	47.62	74.00	-26.38	Peak
4	4515.000	7.13	33.51	35.71	44.57	49.50	74.00	-24.50	Peak
5	5418.000	7.76	34.64	35.17	44.34	51.57	74.00	-22.43	Peak
6 p	6321.000	8.42	34.96	35.13	44.81	53.06	74.00	-20.94	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation: CSS; Channel: middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 909.4M TX RSE

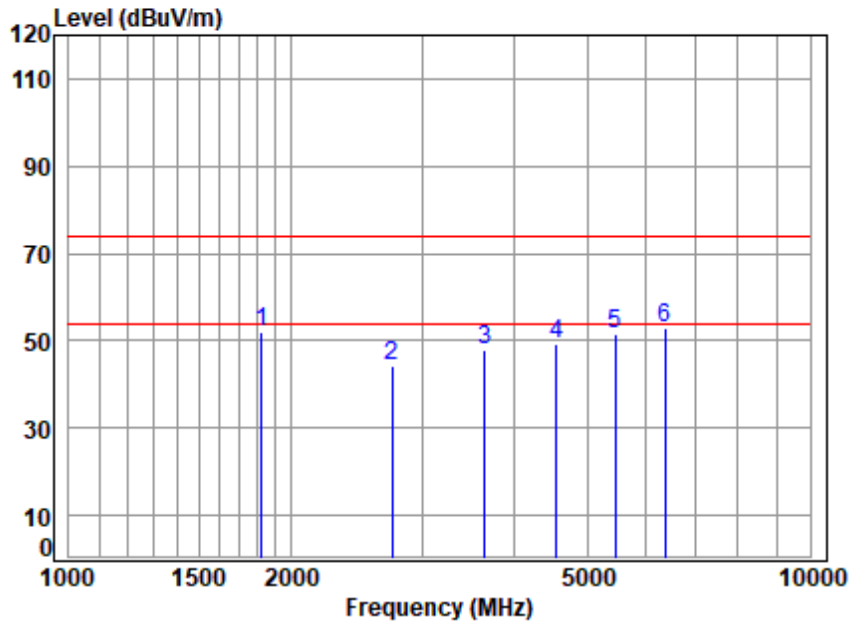
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1818.800	4.48	27.00	38.43	59.74	52.79	74.00	-21.21	Peak
2	2728.200	5.37	29.70	36.68	45.06	43.45	74.00	-30.55	Peak
3	3637.600	6.38	32.55	36.11	45.33	48.15	74.00	-25.85	Peak
4	4547.000	7.15	33.32	35.69	43.85	48.63	74.00	-25.37	Peak
5	5456.400	7.78	34.67	35.16	44.62	51.91	74.00	-22.09	Peak
6 p	6365.800	8.46	34.99	35.16	44.84	53.13	74.00	-20.87	Peak



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Test Mode: 04; Polarity: Vertical; Modulation:CSS; Channel:middle



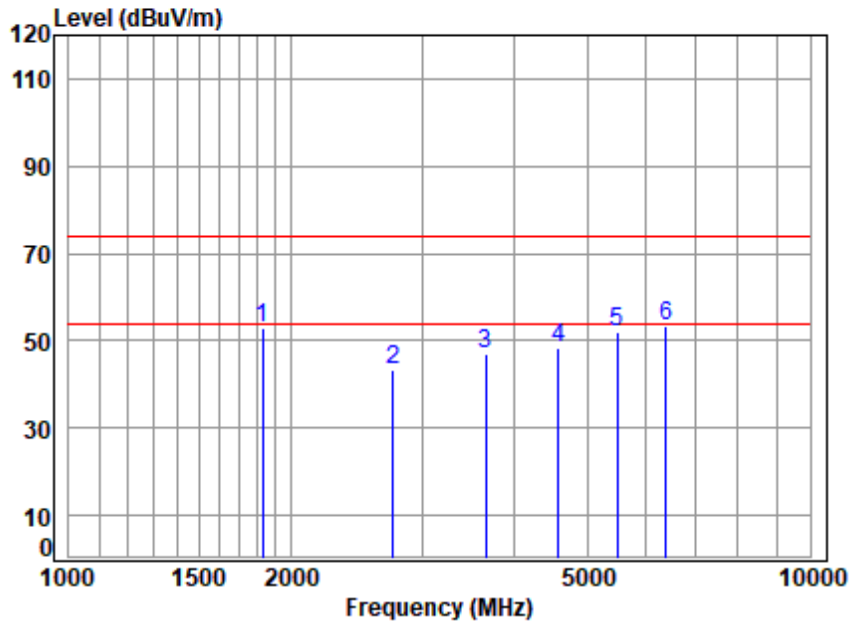
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 909.4M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1818.800	4.48	27.00	38.43	58.89	51.94	74.00	-22.06	Peak
2	2728.200	5.37	29.70	36.68	45.99	44.38	74.00	-29.62	Peak
3	3637.600	6.38	32.55	36.11	44.93	47.75	74.00	-26.25	Peak
4	4547.000	7.15	33.32	35.69	44.36	49.14	74.00	-24.86	Peak
5	5456.400	7.78	34.67	35.16	44.15	51.44	74.00	-22.56	Peak
6 p	6365.800	8.46	34.99	35.16	44.56	52.85	74.00	-21.15	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:CSS; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 914.2M TX RSE

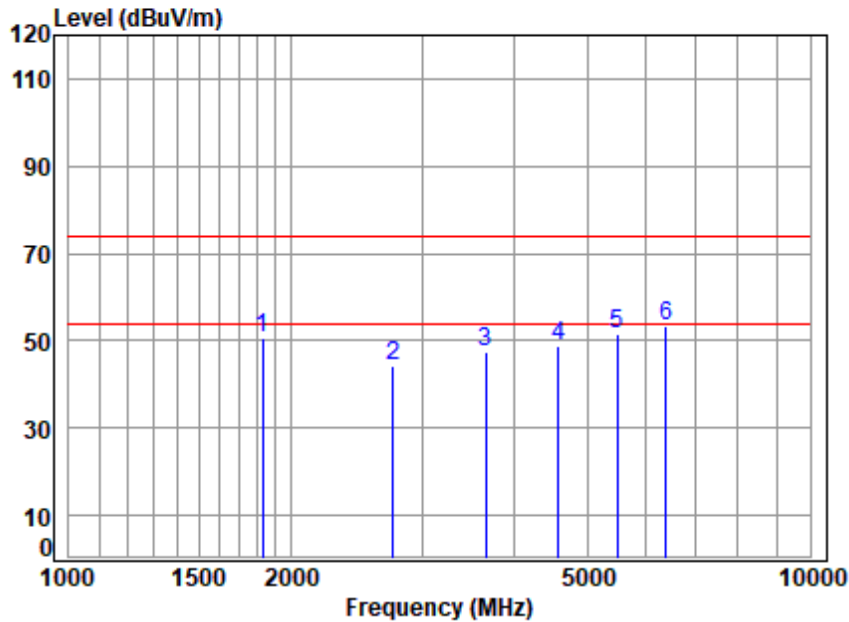
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1828.400	4.49	27.00	38.43	59.80	52.86	74.00	-21.14	Peak
2	2742.600	5.38	29.70	36.65	44.94	43.37	74.00	-30.63	Peak
3	3656.800	6.41	32.74	36.11	44.11	47.15	74.00	-26.85	Peak
4	4571.000	7.17	33.30	35.68	43.79	48.58	74.00	-25.42	Peak
5	5485.200	7.81	34.56	35.14	44.62	51.85	74.00	-22.15	Peak
6 p	6399.400	8.48	35.20	35.18	44.77	53.27	74.00	-20.73	Peak



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Test Mode: 04; Polarity: Vertical; Modulation:CSS; Channel:High



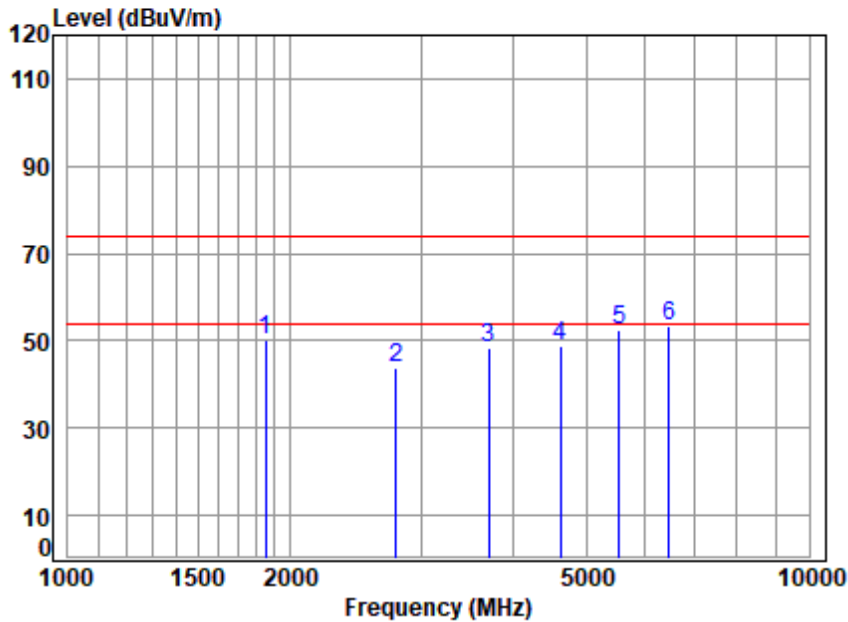
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 914.2M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1828.400	4.49	27.00	38.43	57.54	50.60	74.00	-23.40	Peak
2	2742.600	5.38	29.70	36.65	45.67	44.10	74.00	-29.90	Peak
3	3656.800	6.41	32.74	36.11	44.35	47.39	74.00	-26.61	Peak
4	4571.000	7.17	33.30	35.68	43.89	48.68	74.00	-25.32	Peak
5	5485.200	7.81	34.56	35.14	44.24	51.47	74.00	-22.53	Peak
6 p	6399.400	8.48	35.20	35.18	44.80	53.30	74.00	-20.70	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:CSS; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 923.3M TX RSE

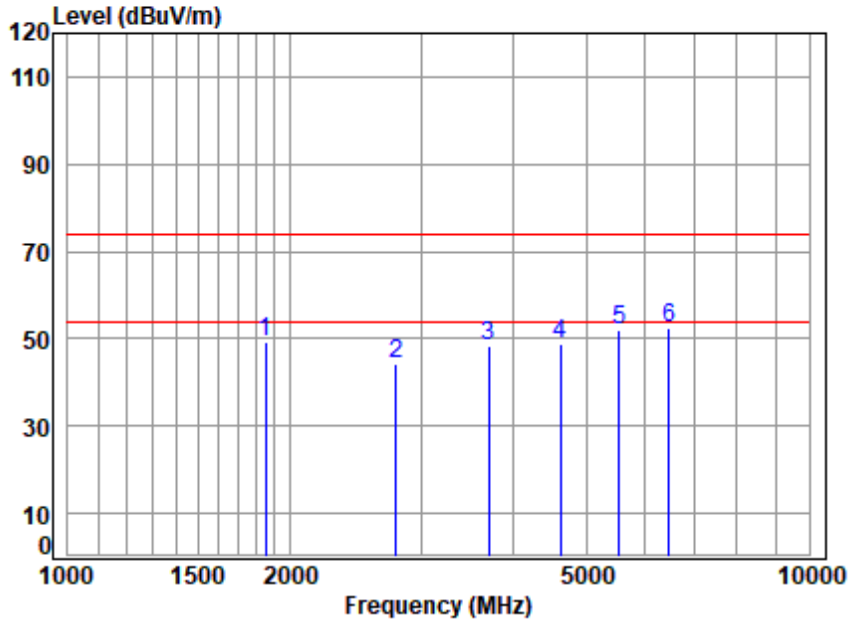
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1846.600	4.51	27.00	38.43	57.22	50.30	74.00	-23.70	Peak
2	2769.900	5.40	29.74	36.59	45.25	43.80	74.00	-30.20	Peak
3	3693.200	6.45	32.96	36.11	45.03	48.33	74.00	-25.67	Peak
4	4616.500	7.20	33.33	35.64	44.15	49.04	74.00	-24.96	Peak
5	5539.800	7.85	34.66	35.11	45.27	52.67	74.00	-21.33	Peak
6 p	6463.100	8.53	35.53	35.22	44.47	53.31	74.00	-20.69	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:CSS; Channel:Low



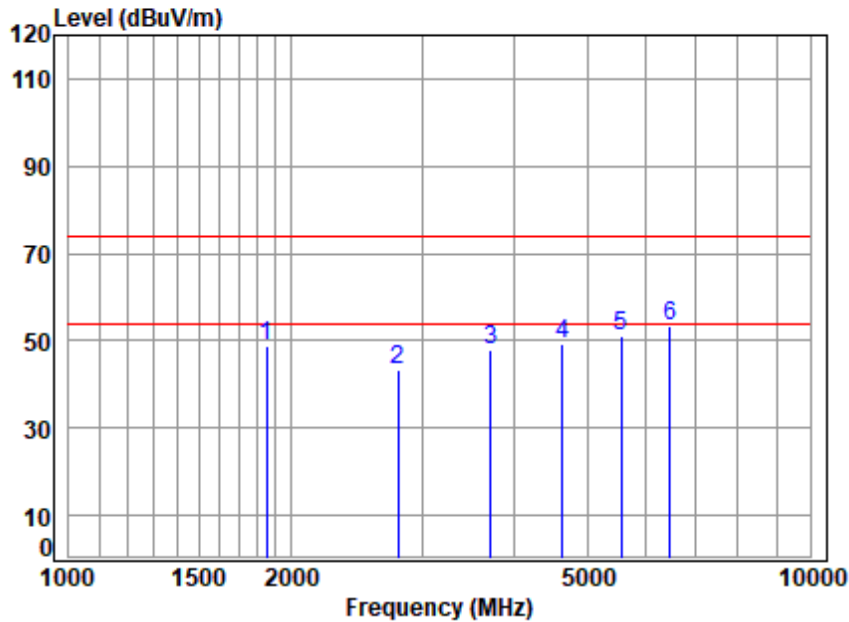
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 923.3M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1846.600	4.51	27.00	38.43	56.01	49.09	74.00	-24.91	Peak
2	2769.900	5.40	29.74	36.59	45.69	44.24	74.00	-29.76	Peak
3	3693.200	6.45	32.96	36.11	45.13	48.43	74.00	-25.57	Peak
4	4616.500	7.20	33.33	35.64	43.95	48.84	74.00	-25.16	Peak
5	5539.800	7.85	34.66	35.11	44.50	51.90	74.00	-22.10	Peak
6 p	6463.100	8.53	35.53	35.22	43.64	52.48	74.00	-21.52	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation: CSS; Channel: middle



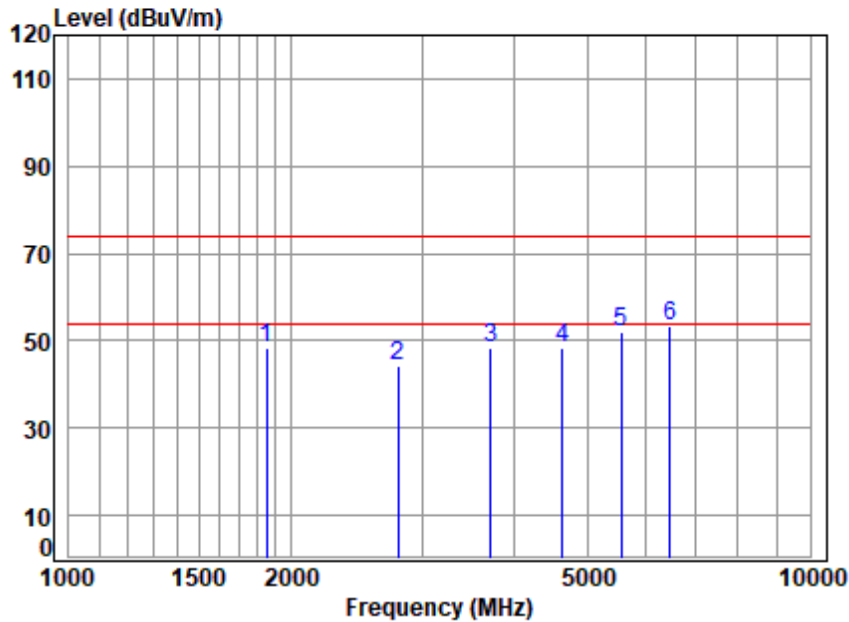
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 925.7M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1851.400	4.51	27.01	38.43	55.72	48.81	74.00	-25.19	Peak
2	2777.100	5.41	29.75	36.58	44.93	43.51	74.00	-30.49	Peak
3	3702.800	6.46	32.99	36.11	44.54	47.88	74.00	-26.12	Peak
4	4628.500	7.21	33.36	35.64	44.40	49.33	74.00	-24.67	Peak
5	5554.200	7.86	34.70	35.11	43.71	51.16	74.00	-22.84	Peak
6 p	6479.900	8.54	35.56	35.23	44.36	53.23	74.00	-20.77	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:CSS; Channel:middle



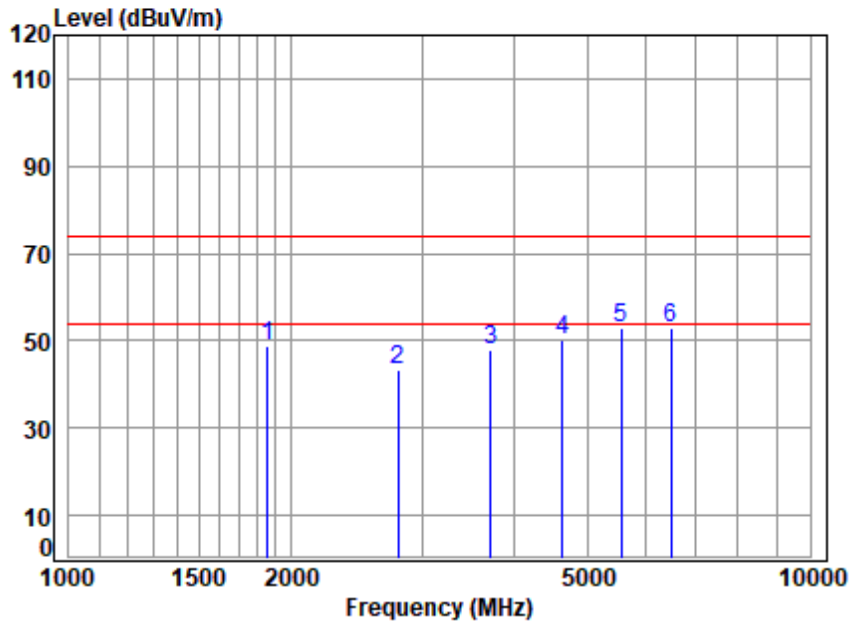
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 925.7M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1851.400	4.51	27.01	38.43	55.47	48.56	74.00	-25.44	Peak
2	2777.100	5.41	29.75	36.58	45.62	44.20	74.00	-29.80	Peak
3	3702.800	6.46	32.99	36.11	45.02	48.36	74.00	-25.64	Peak
4	4628.500	7.21	33.36	35.64	43.57	48.50	74.00	-25.50	Peak
5	5554.200	7.86	34.70	35.11	44.76	52.21	74.00	-21.79	Peak
6 p	6479.900	8.54	35.56	35.23	44.57	53.44	74.00	-20.56	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:CSS; Channel:High



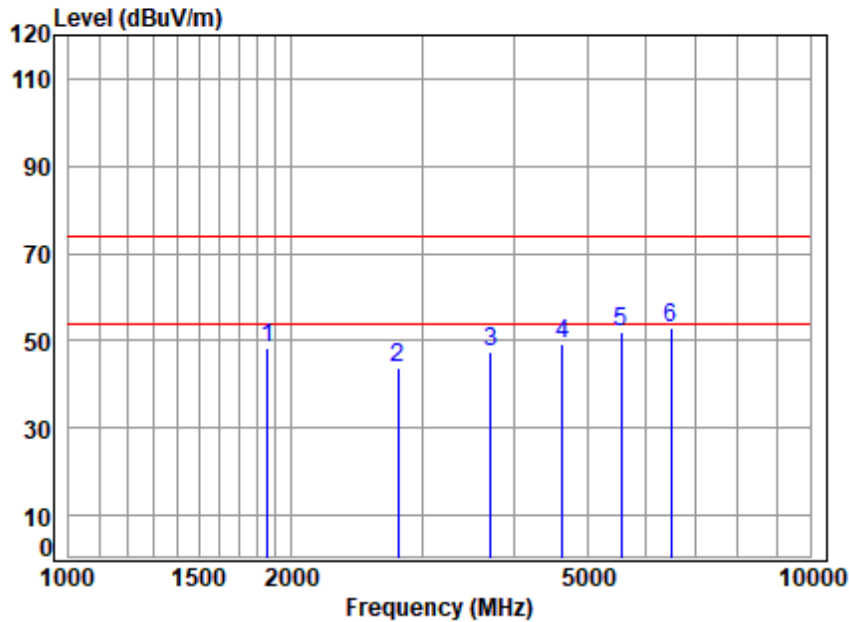
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01438AT
 Mode : 926.9M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1853.800	4.52	27.03	38.43	55.61	48.73	74.00	-25.27	peak
2	2780.700	5.41	29.76	36.57	44.66	43.26	74.00	-30.74	peak
3	3707.600	6.46	32.98	36.11	44.57	47.90	74.00	-26.10	peak
4	4634.500	7.21	33.37	35.63	45.21	50.16	74.00	-23.84	peak
5	5561.400	7.86	34.70	35.10	45.32	52.78	74.00	-21.22	peak
6 p	6488.300	8.55	35.58	35.24	44.06	52.95	74.00	-21.05	peak



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Test Mode: 05; Polarity: Vertical; Modulation:CSS; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01438AT
 Mode : 926.9M TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1853.800	4.52	27.03	38.43	55.27	48.39	74.00	-25.61	peak
2	2780.700	5.41	29.76	36.57	45.01	43.61	74.00	-30.39	peak
3	3707.600	6.46	32.98	36.11	44.12	47.45	74.00	-26.55	peak
4	4634.500	7.21	33.37	35.63	44.32	49.27	74.00	-24.73	peak
5	5561.400	7.86	34.70	35.10	44.45	51.91	74.00	-22.09	peak
6 p	6488.300	8.55	35.58	35.24	44.19	53.08	74.00	-20.92	peak



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7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(2)
 Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

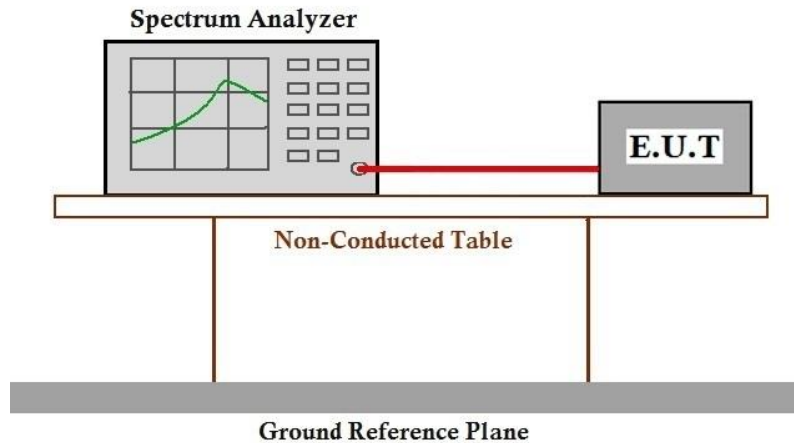
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.



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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.7

Limit:

20 dB bandwidth of the hopping channel	Hopping frequencies	Average time of occupancy
less than 250 kHz	least 50 hopping frequencies	shall not be greater than 0.4 seconds within a 20 second period
250 kHz to 500kHz	least 25 hopping frequencies	shall not be greater than 0.4 seconds within a 10 second period.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

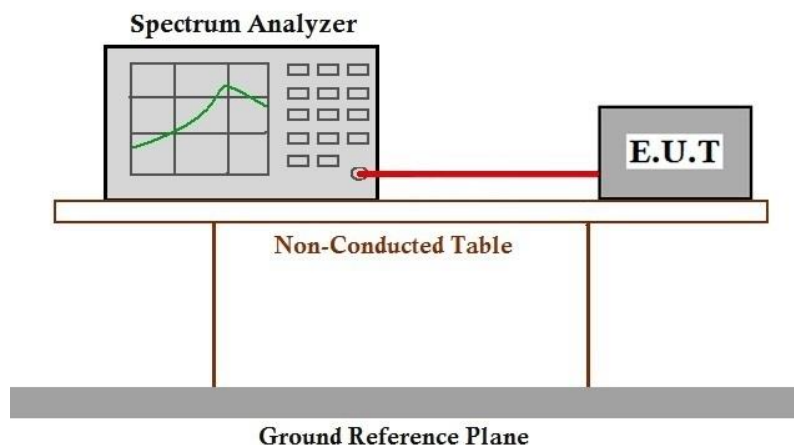
Humidity: 37.1 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.6.1 E.U.T. Operation

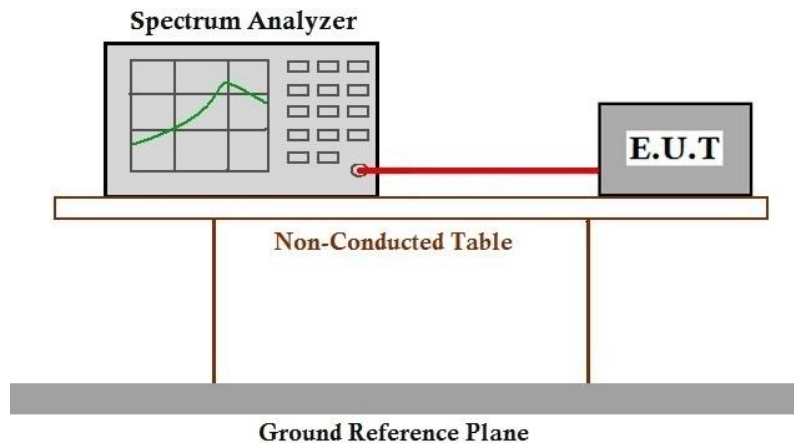
Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.7.1 E.U.T. Operation

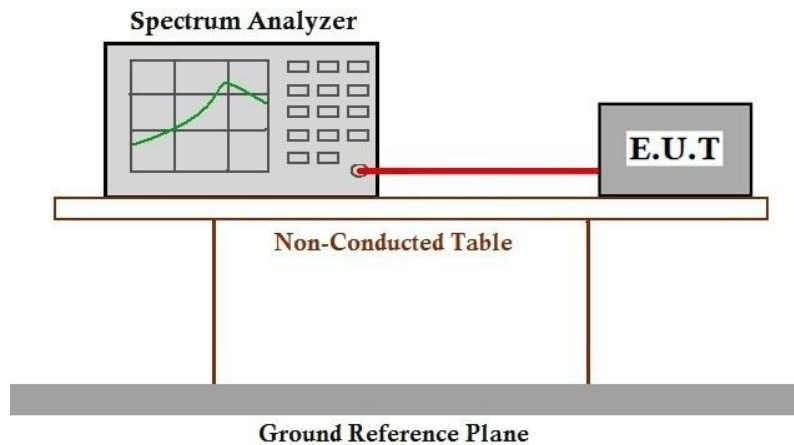
Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

7.8.1 E.U.T. Operation

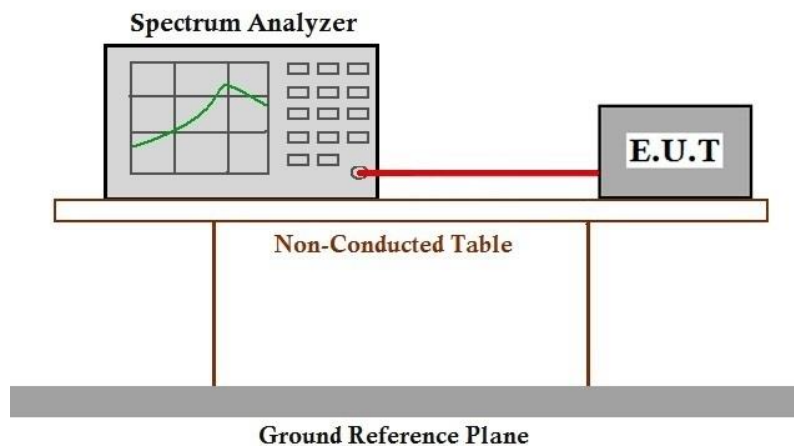
Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

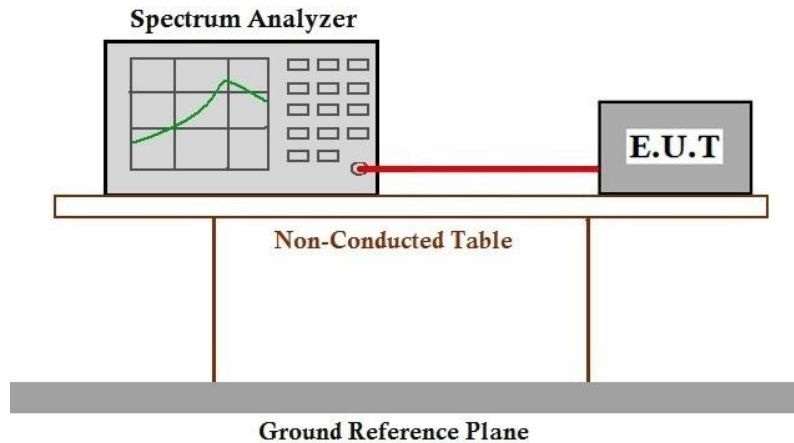
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.



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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

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 37.1 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

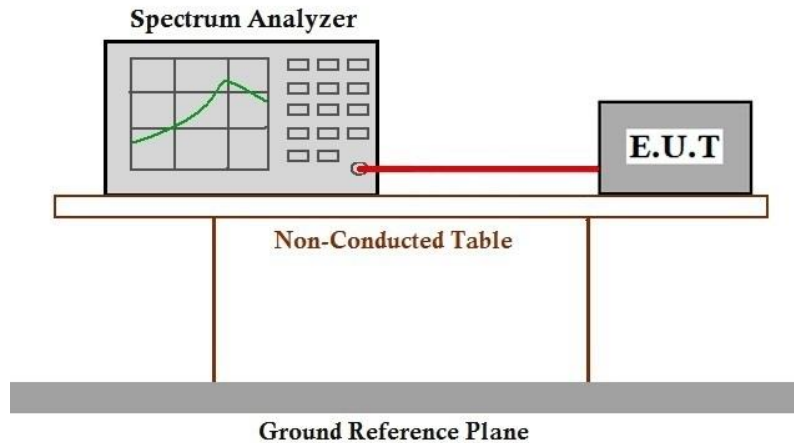
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode (FHSS 902.3MHz to 927.6MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	04	TX_mode (DTS 903MHz to 914.2MHz)_Keep the EUT in continuously transmitting mode with modulation.
Final test	05	TX_mode (DTS 923.3MHz to 926.9MHz)_Keep the EUT in continuously transmitting mode with modulation.



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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2404001438AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2404001438AT



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10 Appendix

DTS 923.3MHz to 926.9MHz:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

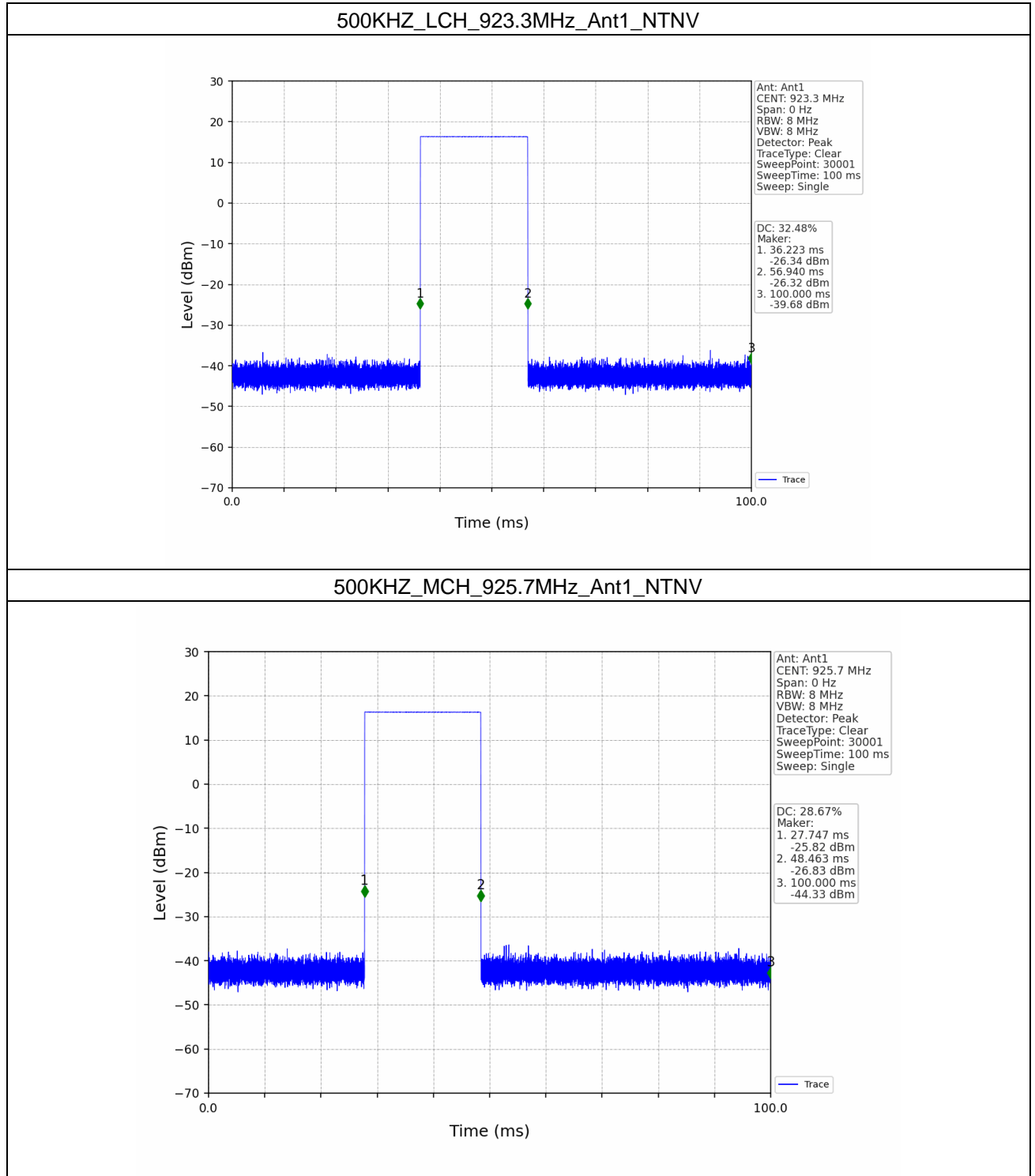
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
500KHZ	SISO	923.3	20.717	63.777	32.48	4.88	0.00
		925.7	20.716	72.253	28.67	5.43	0.00
		926.9	20.717	75.300	27.51	5.60	0.00



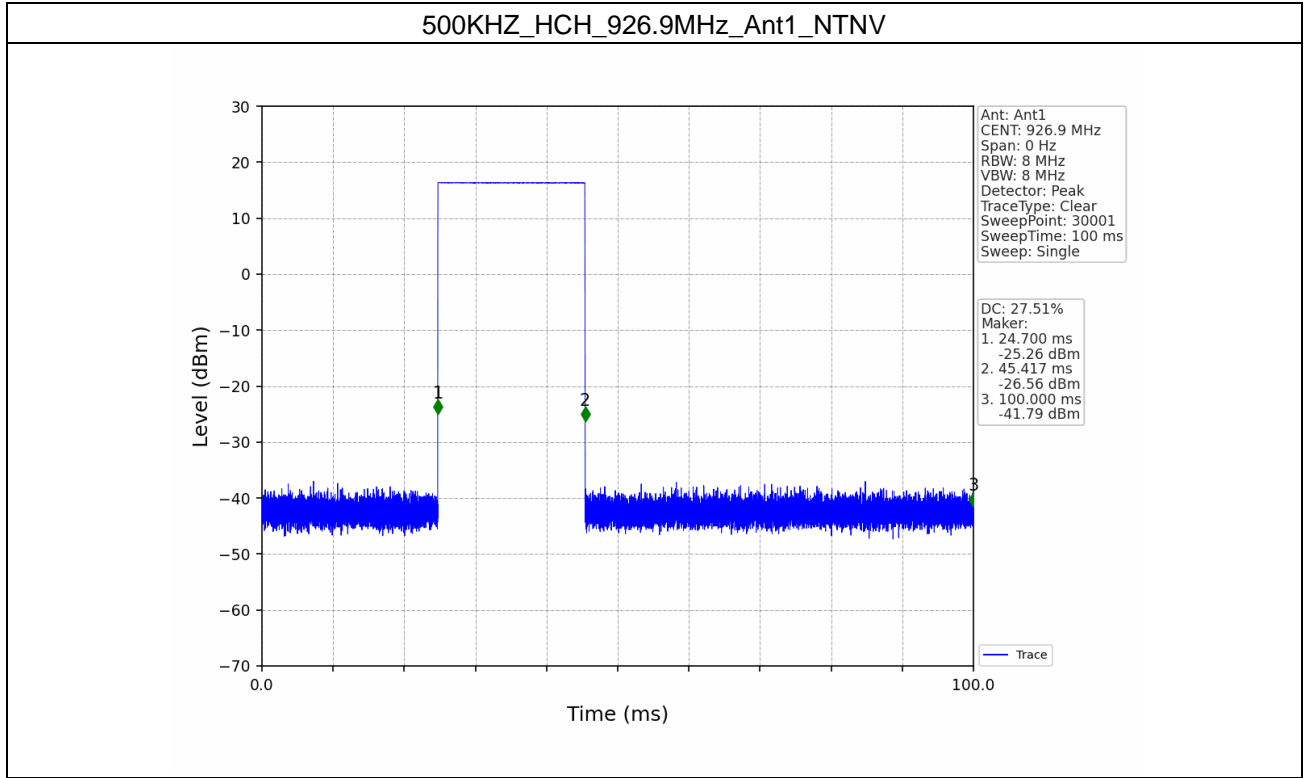
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1.1.2 Test Graph



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

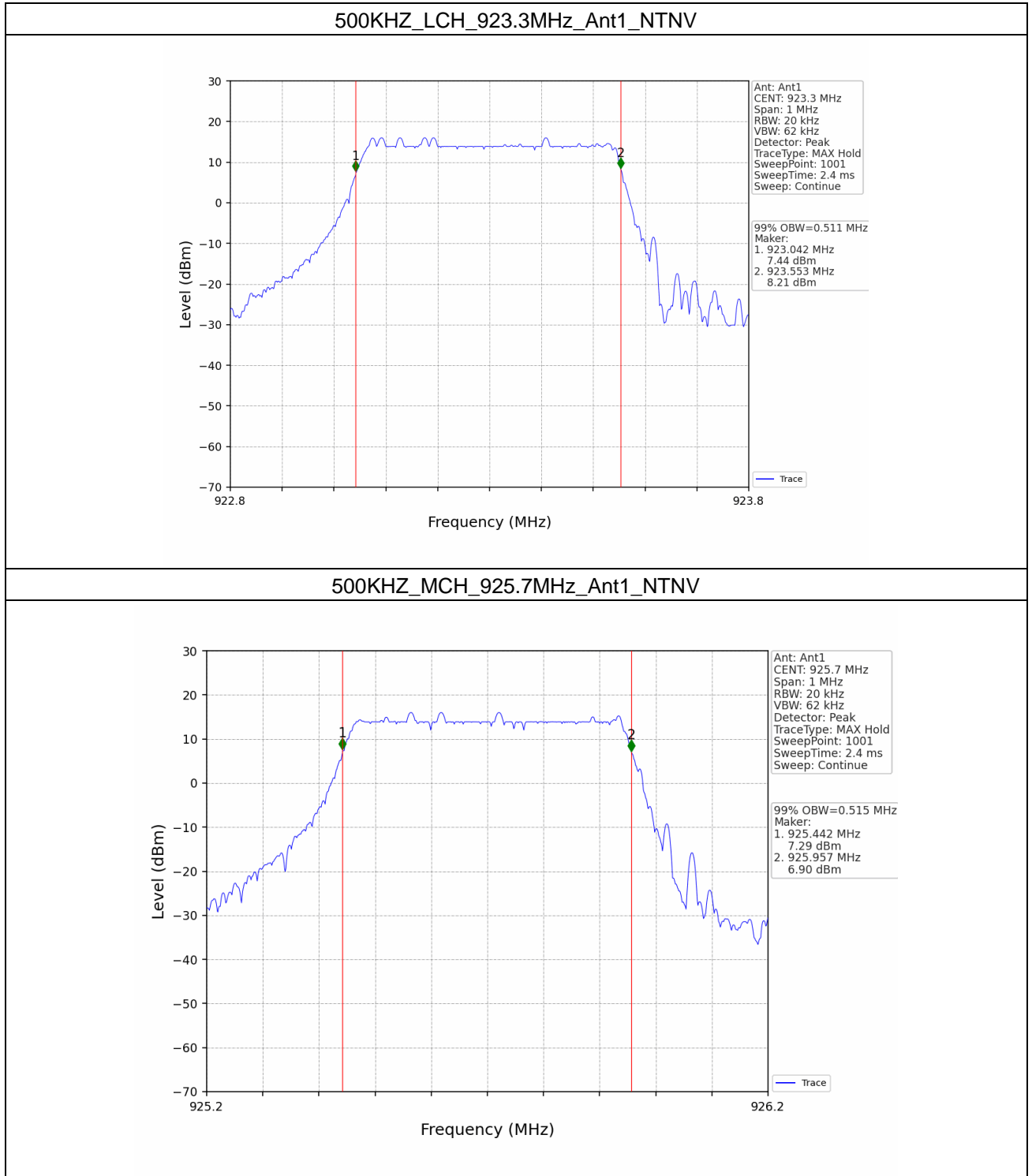
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
500KHZ	SISO	923.3	1	0.511	/	Pass
		925.7	1	0.515	/	Pass
		926.9	1	0.514	/	Pass



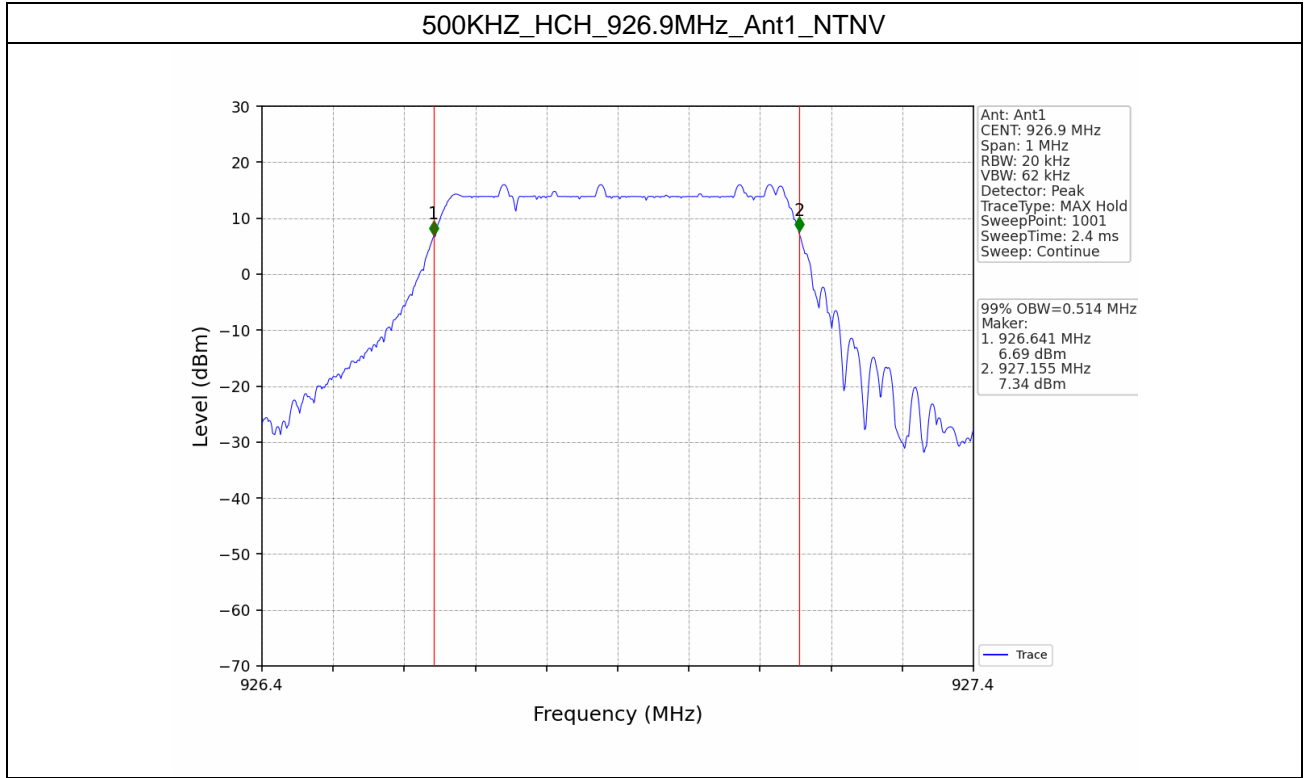
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2.1.2 Test Graph



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2.2 6dB BW

2.2.1 Test Result

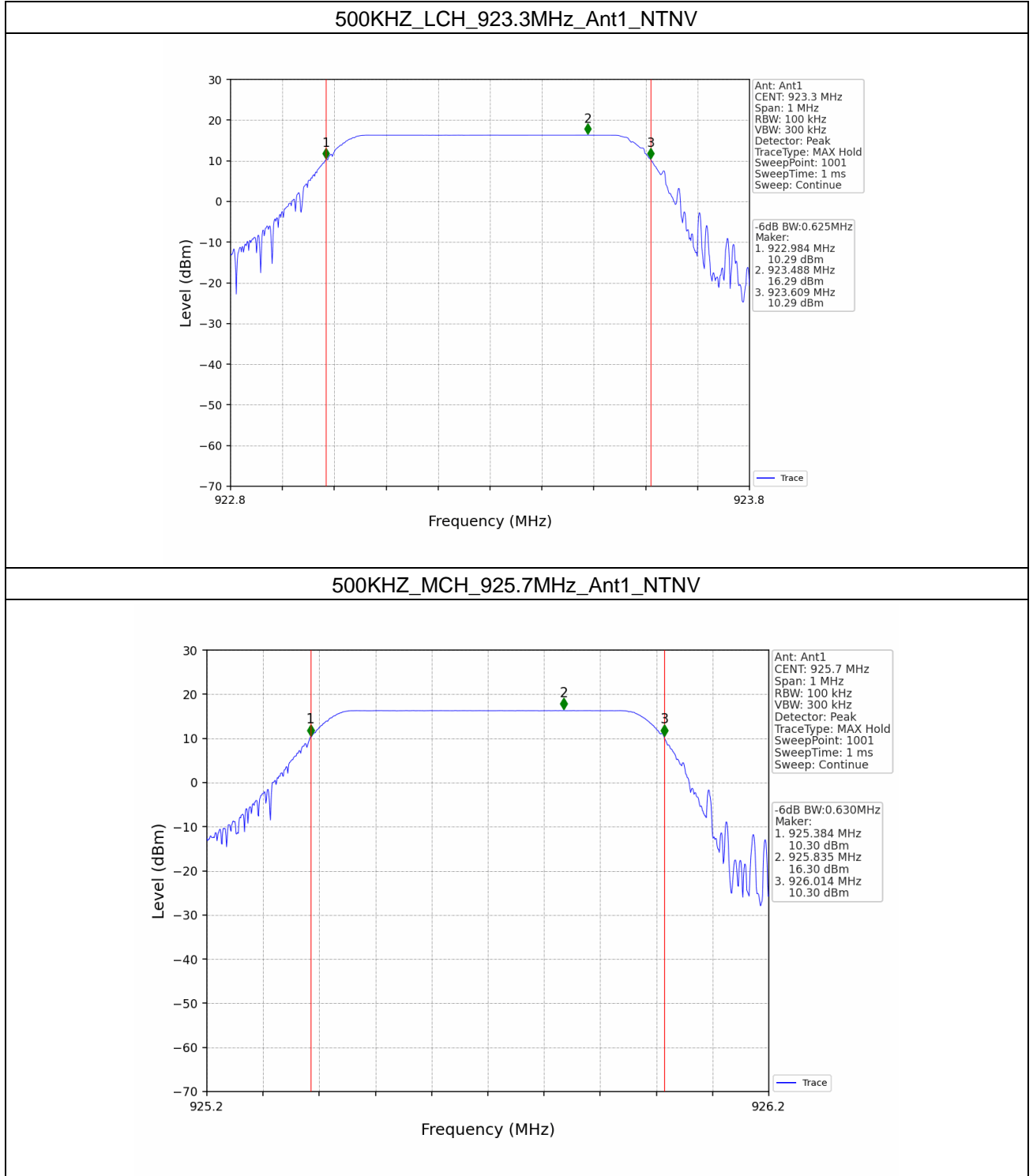
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
500KHZ	SISO	923.3	1	0.625	>=0.5	Pass
		925.7	1	0.630	>=0.5	Pass
		926.9	1	0.623	>=0.5	Pass



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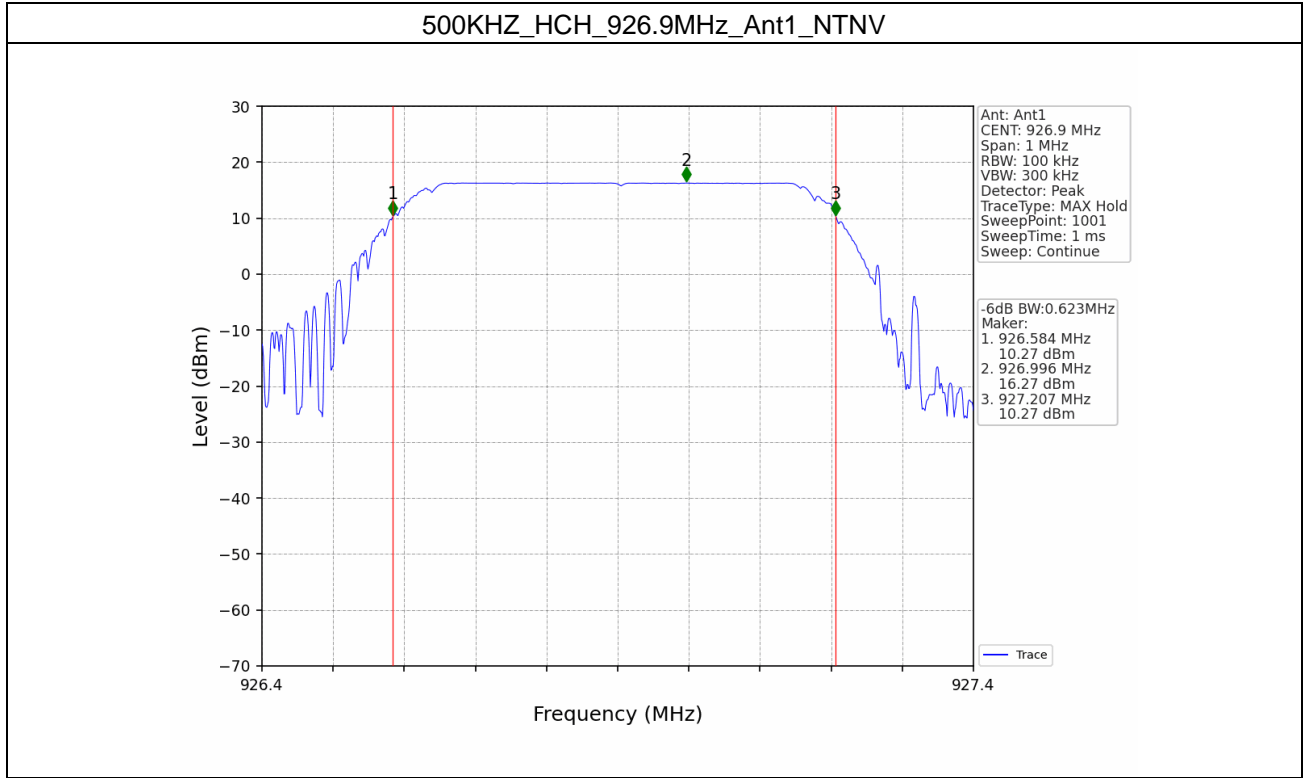
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2.2.2 Test Graph



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
500KHZ	SISO	923.3	16.31	<=30	Pass
		925.7	16.32	<=30	Pass
		926.9	16.30	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

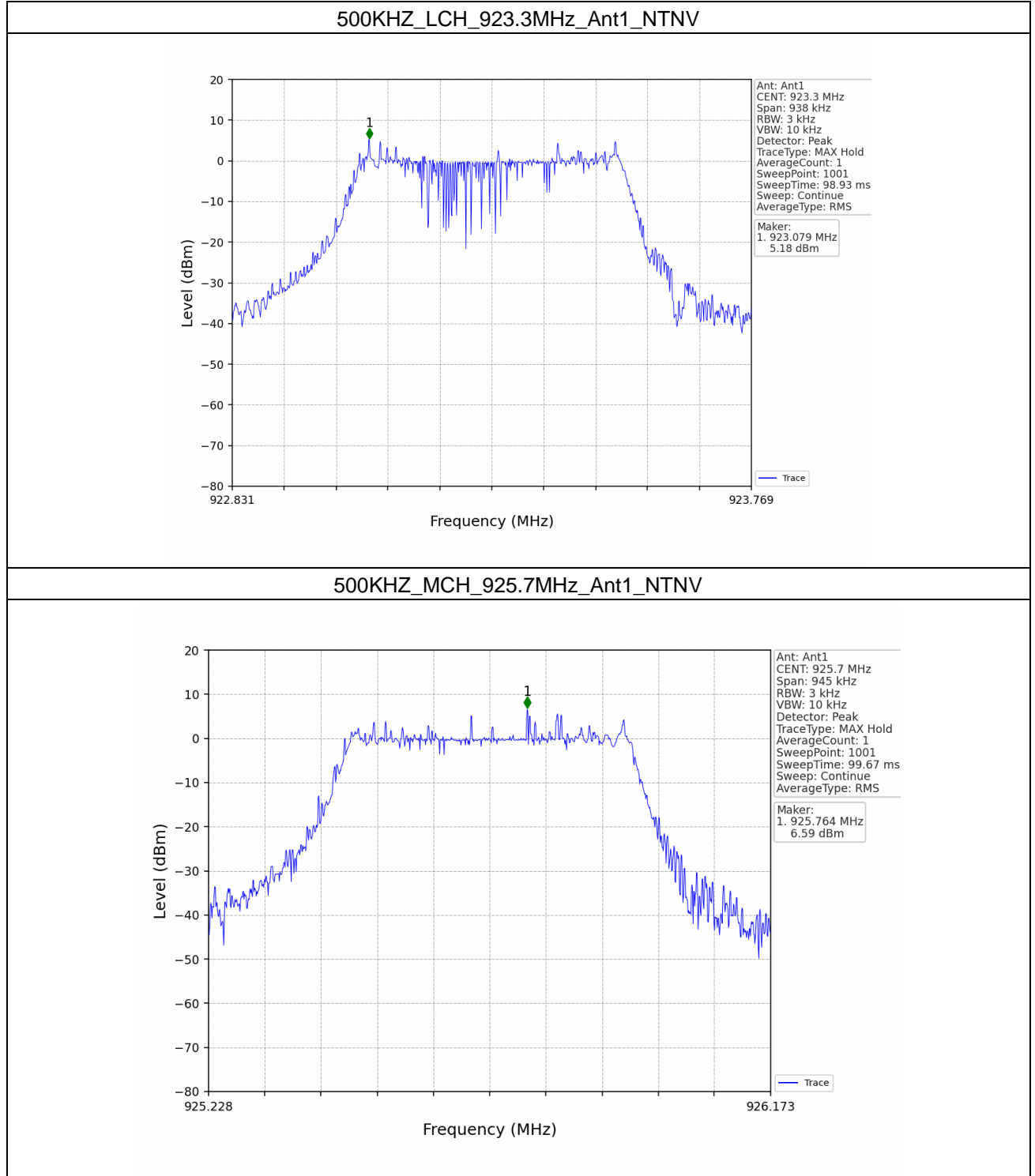
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
500KHZ	SISO	923.3	5.18	<=8	Pass
		925.7	6.59	<=8	Pass
		926.9	2.88	<=8	Pass



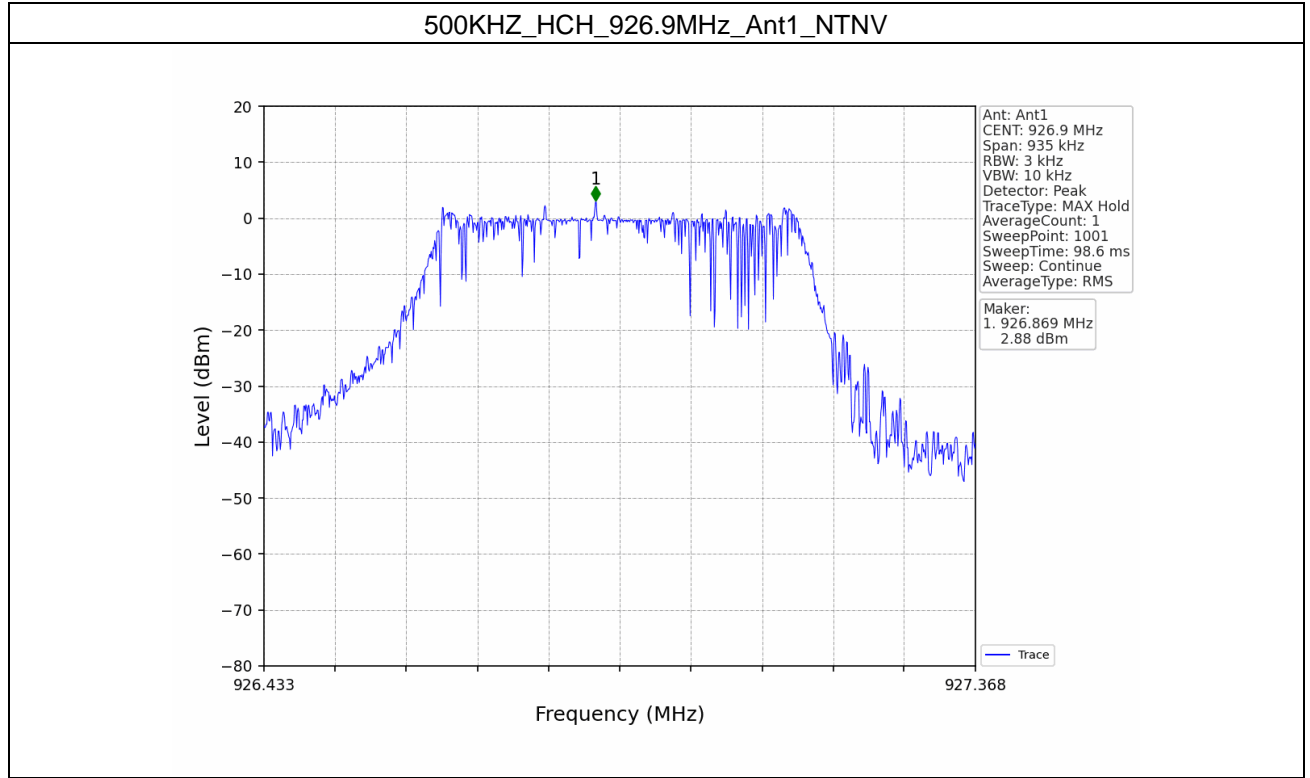
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4.1.2 Test Graph



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

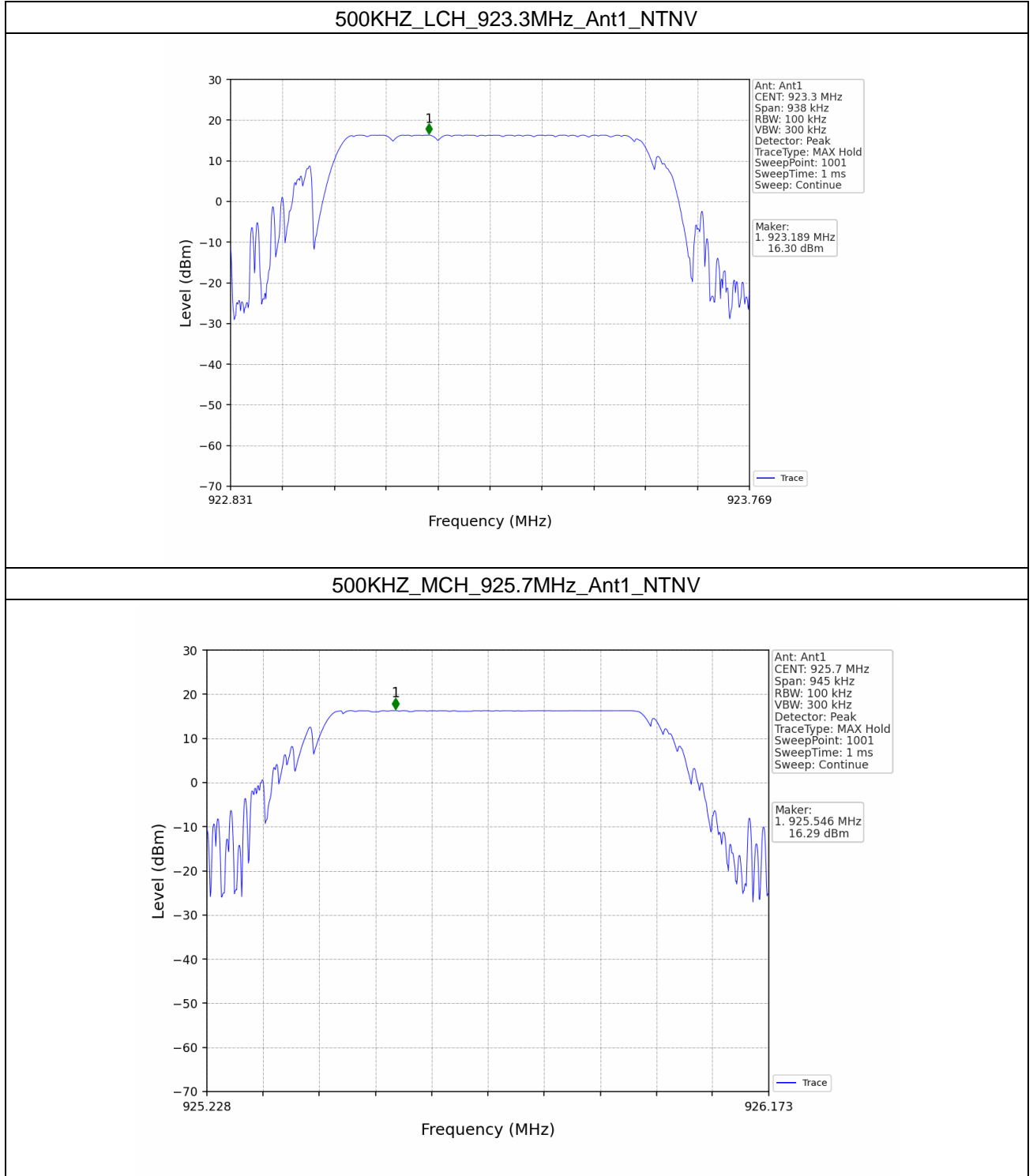
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
500KHZ	SISO	923.3	1	16.30
		925.7	1	16.29
		926.9	1	16.26



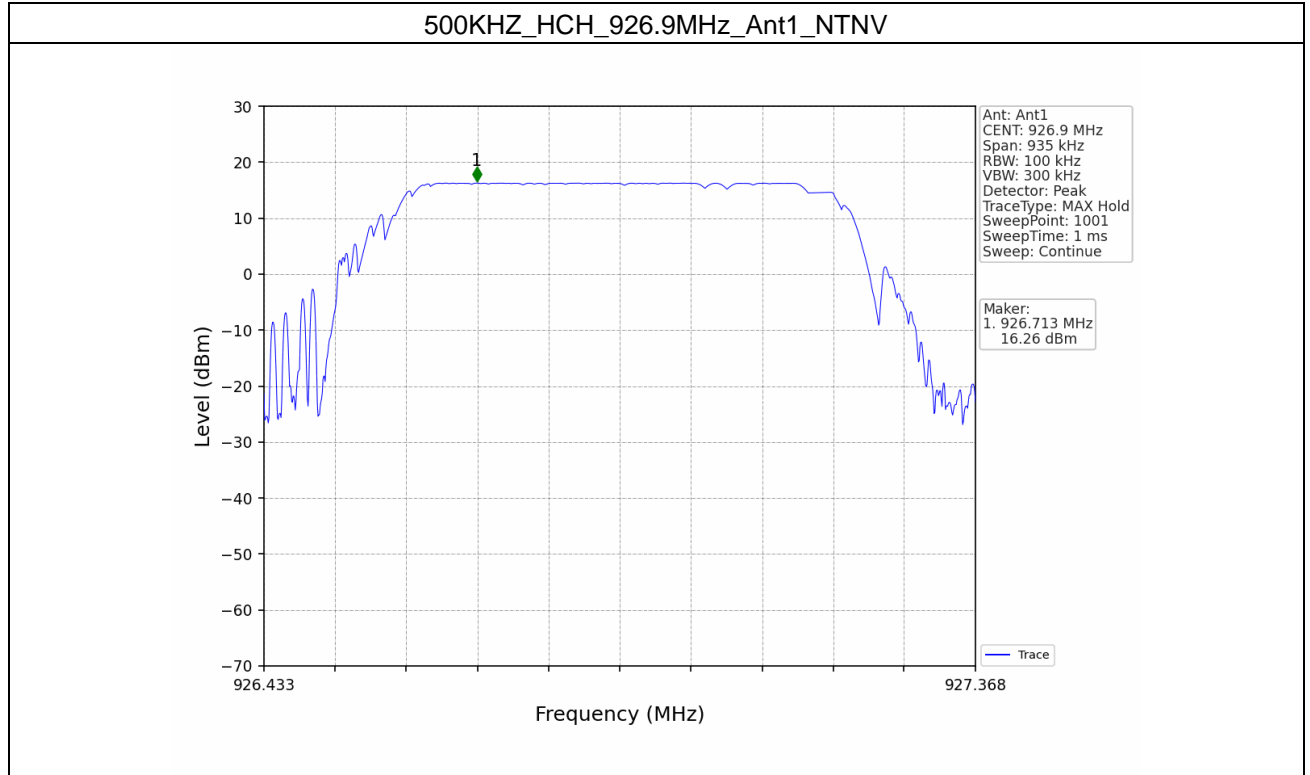
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5.1.2 Test Graph



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5.2 CSE

5.2.1 Test Result

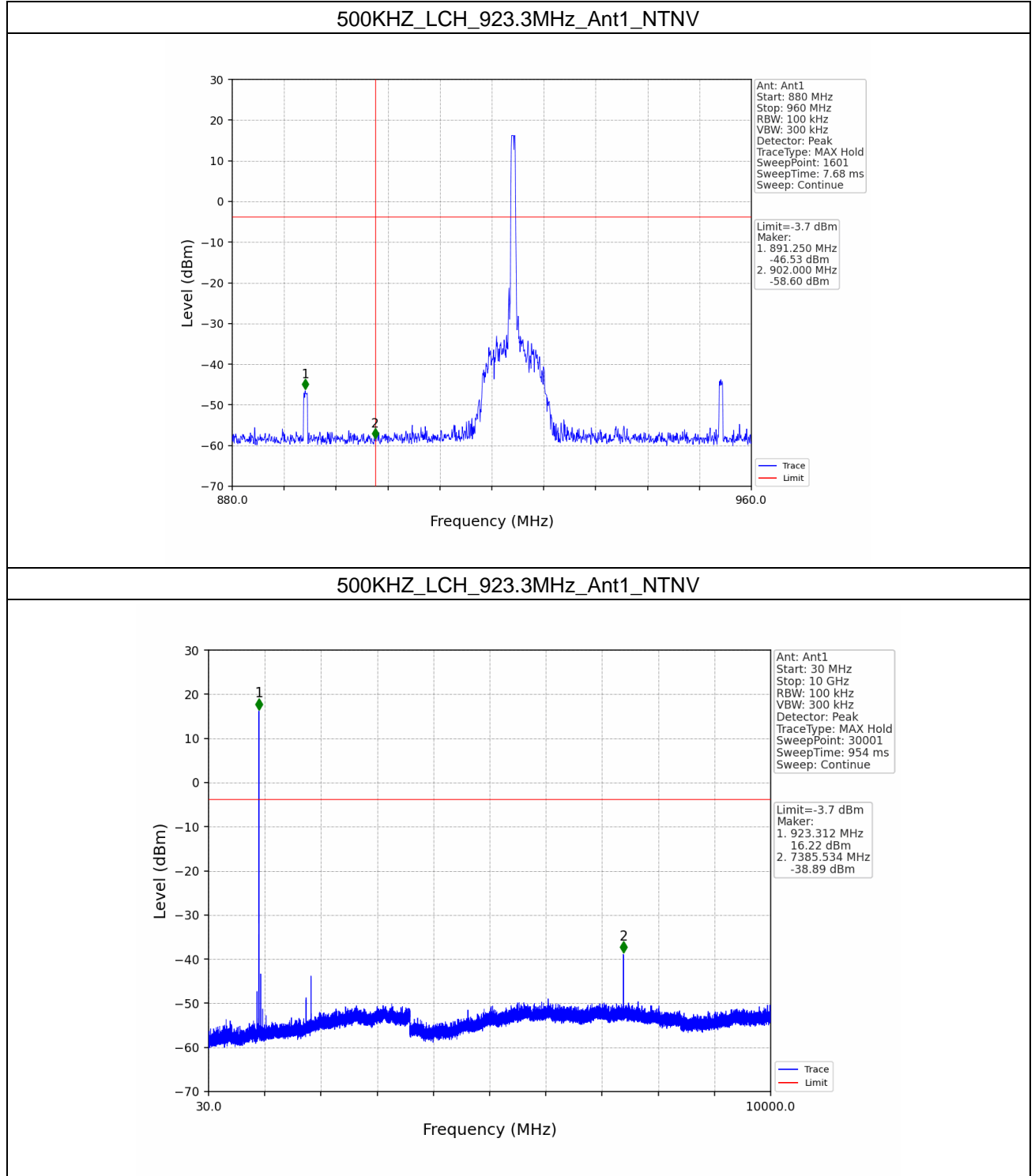
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
500KHZ	SISO	923.3	1	16.30	-3.70	Pass
		925.7	1	16.30	-3.70	Pass
		926.9	1	16.30	-3.70	Pass



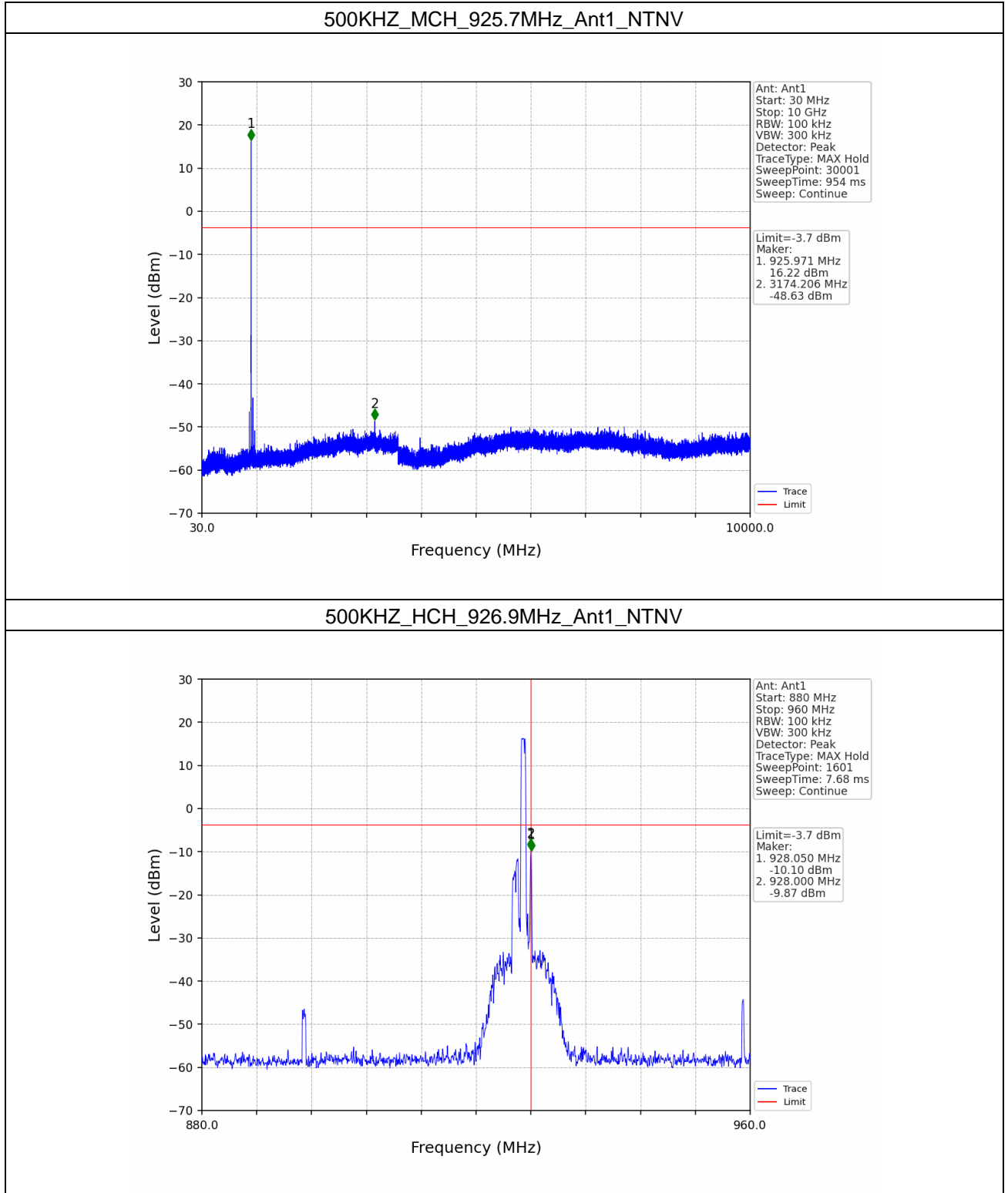
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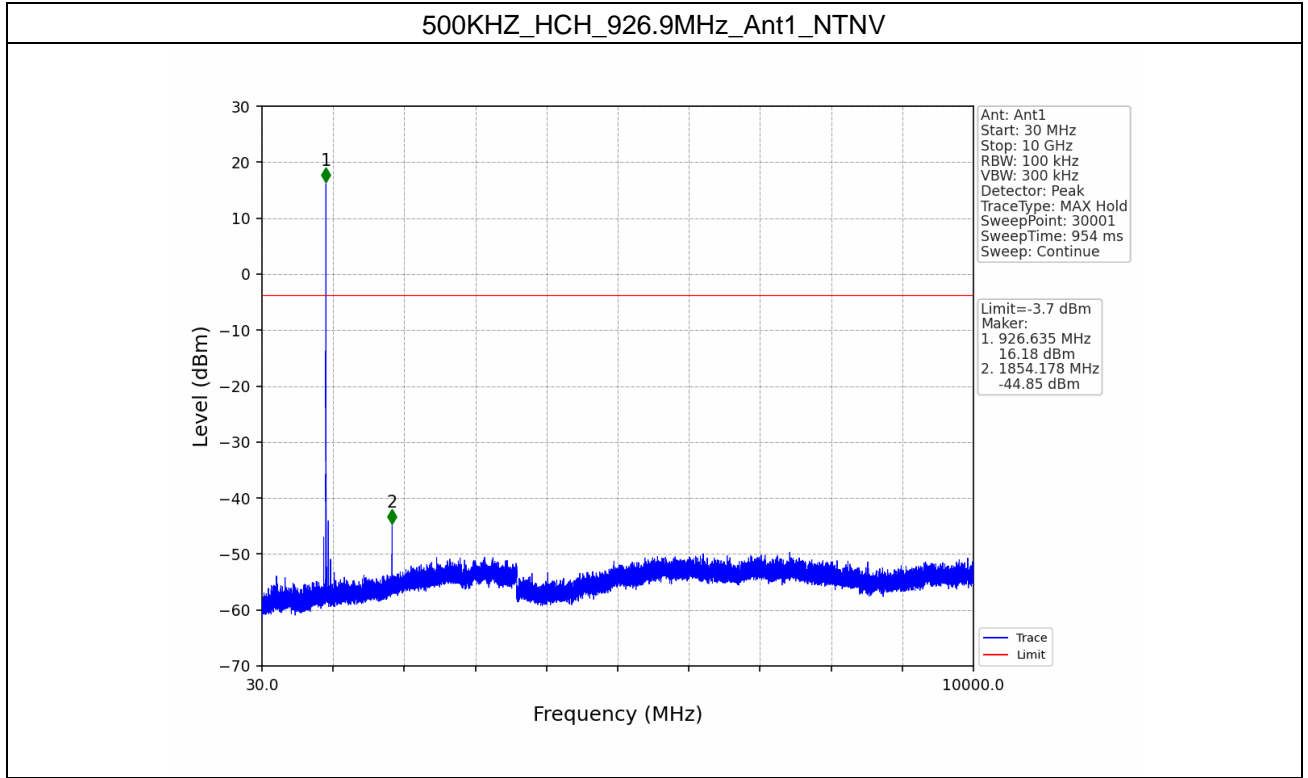
5.2.2 Test Graph



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DTS 903MHz to 914.2MHz:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

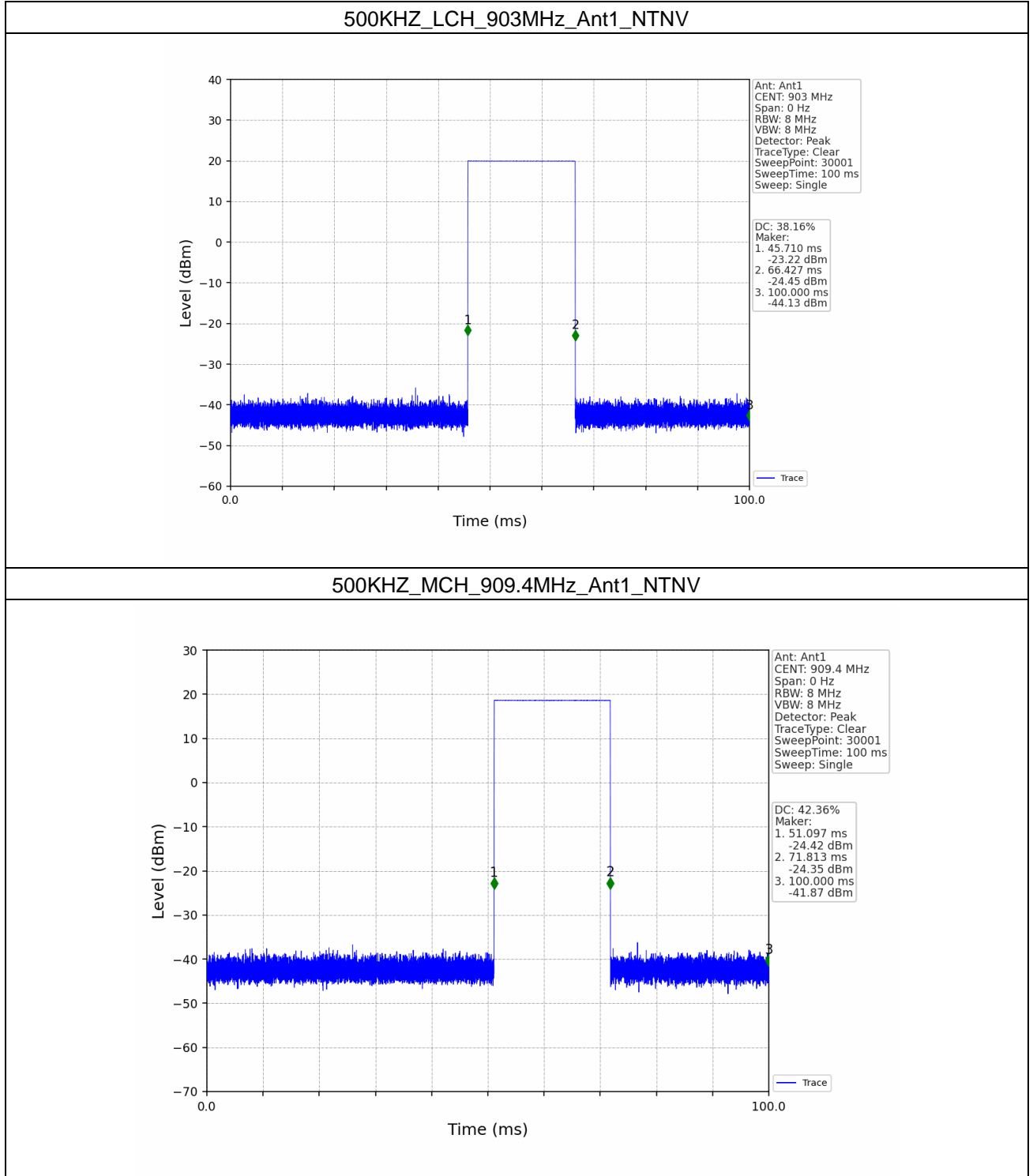
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
500KHZ	SISO	903	20.717	54.290	38.16	4.18	0.00
		909.4	20.716	48.903	42.36	3.73	0.00
		914.2	20.717	95.550	21.68	6.64	0.00



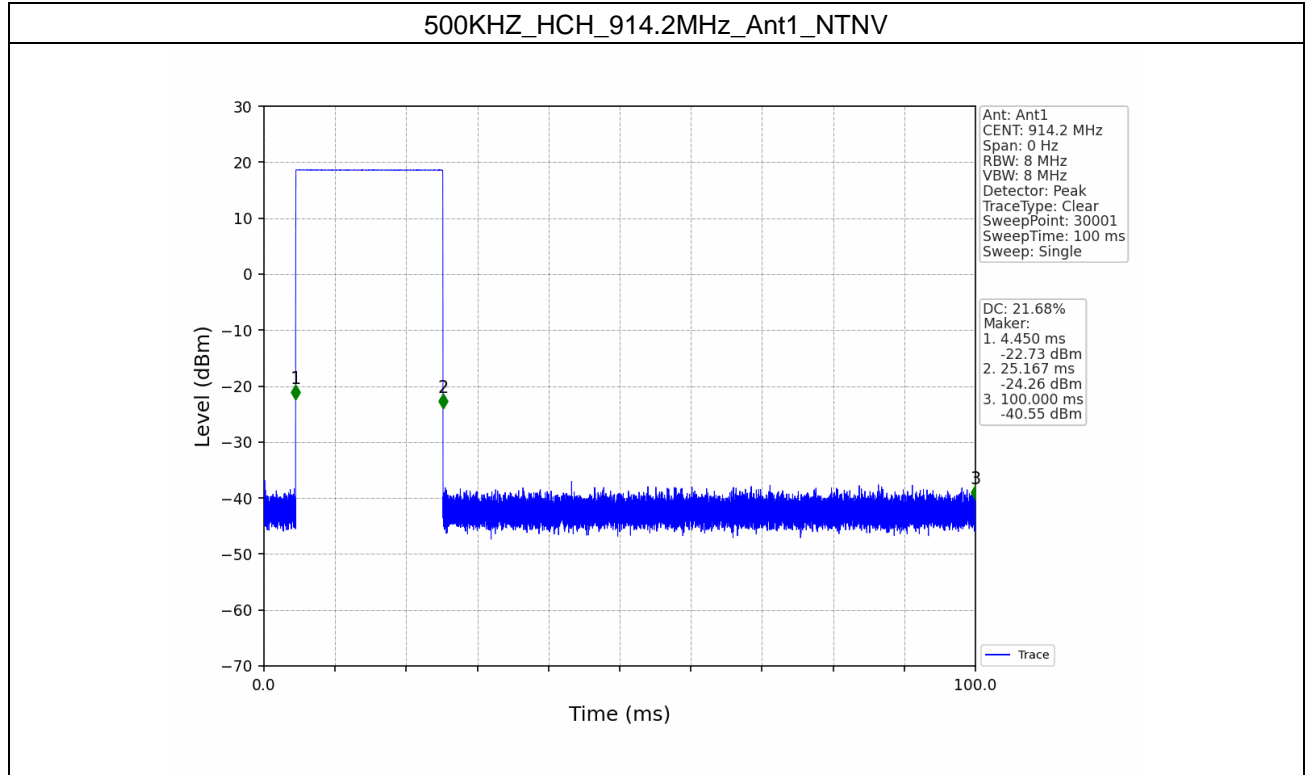
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

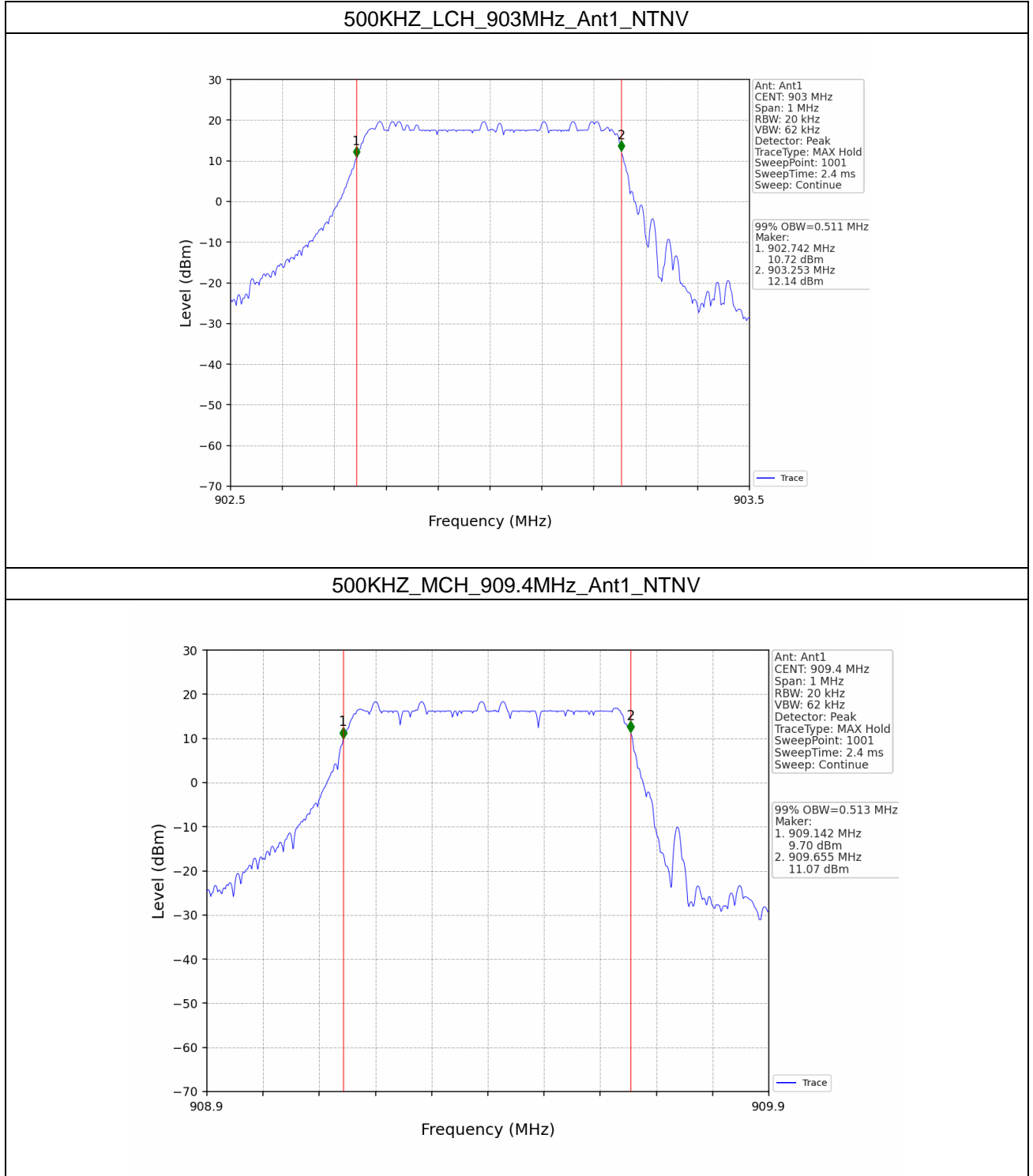
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
500KHZ	SISO	903	1	0.511	/	Pass
		909.4	1	0.513	/	Pass
		914.2	1	0.513	/	Pass



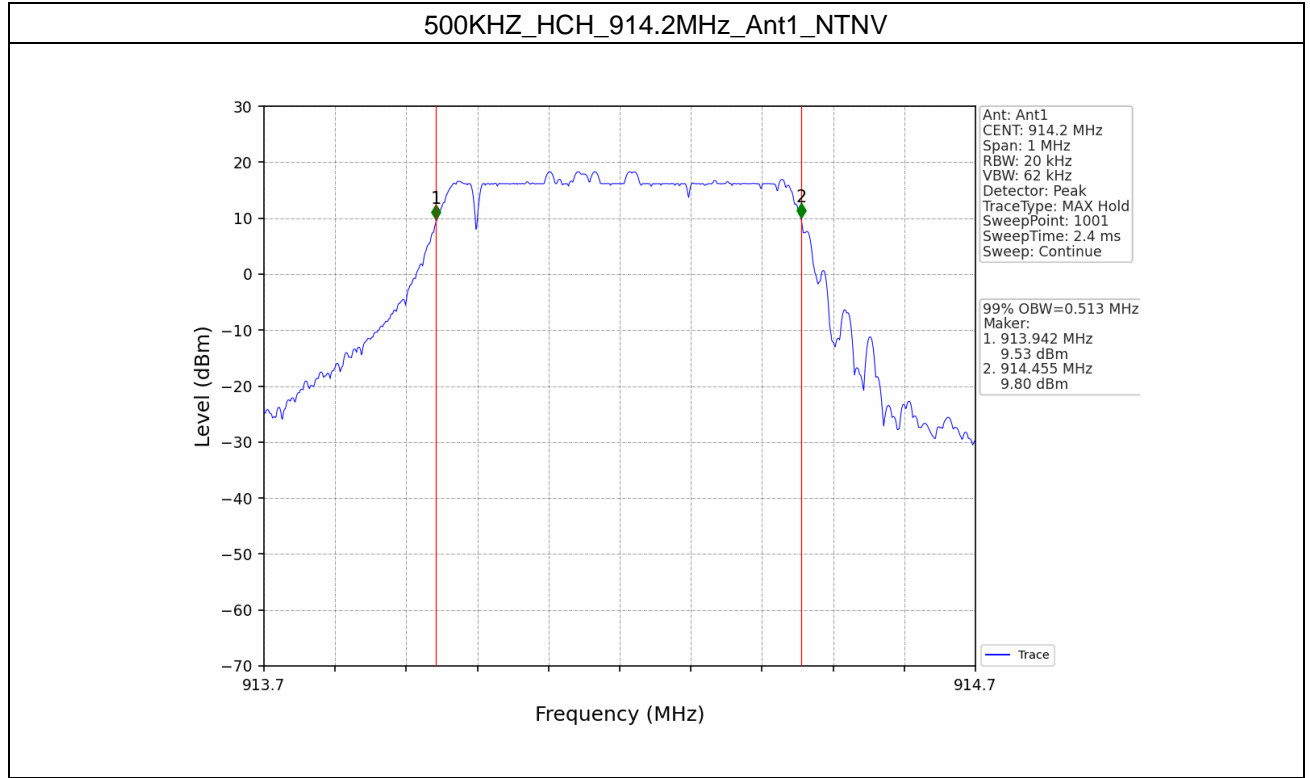
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2.1.2 Test Graph



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2.2 6dB BW

2.2.1 Test Result

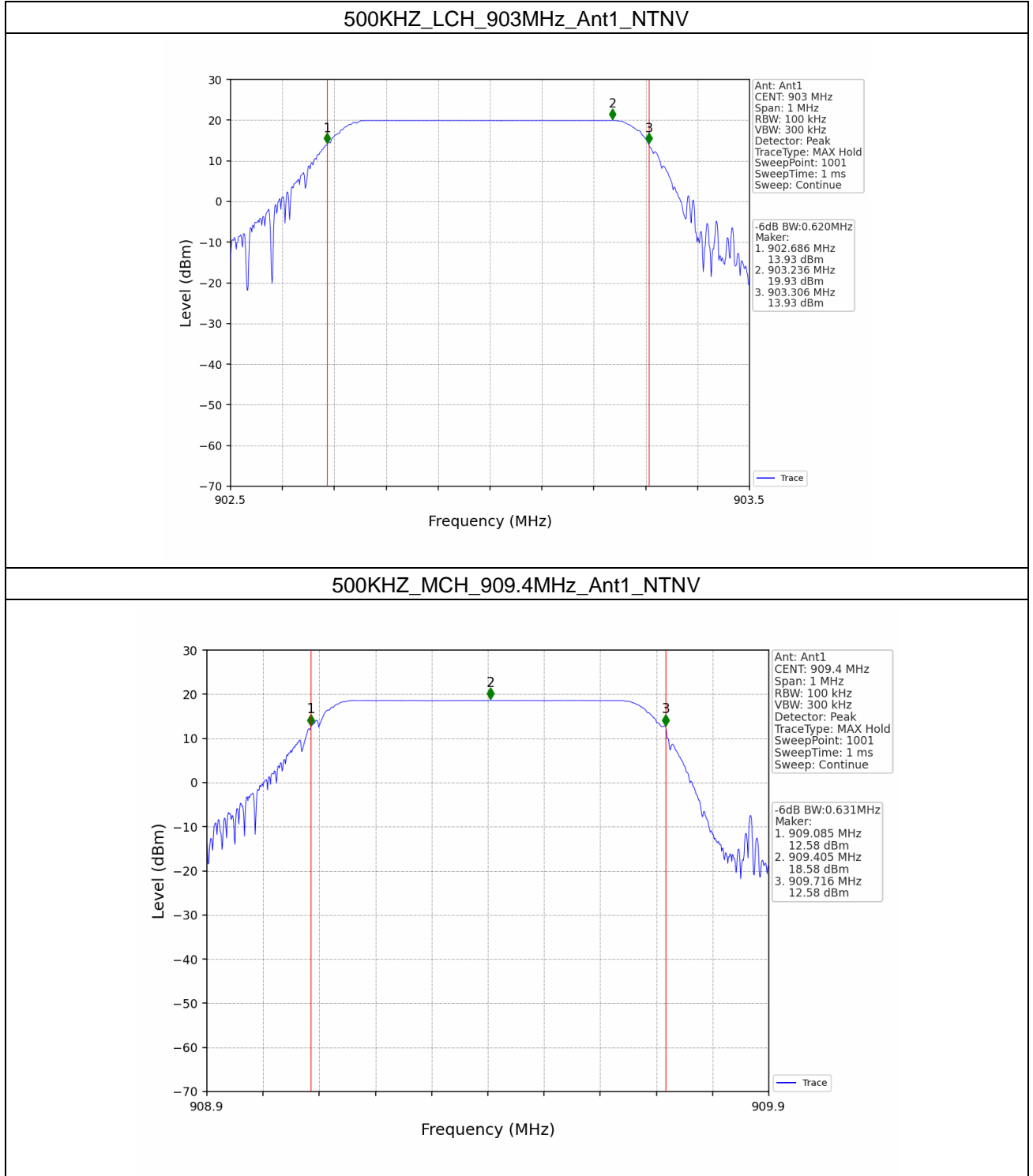
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
500KHZ	SISO	903	1	0.620	>=0.5	Pass
		909.4	1	0.631	>=0.5	Pass
		914.2	1	0.626	>=0.5	Pass



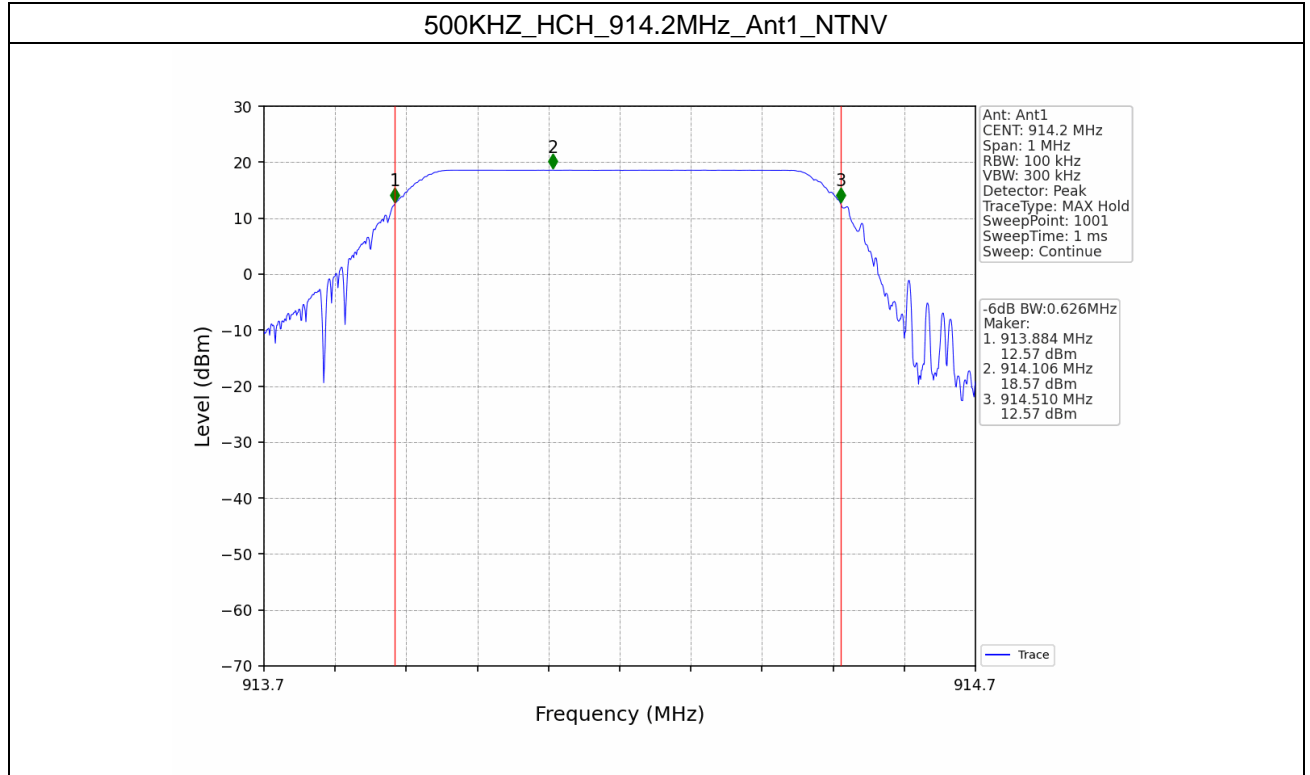
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2.2.2 Test Graph



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
500KHZ	SISO	903	16.36	<=30	Pass
		909.4	16.33	<=30	Pass
		914.2	16.33	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

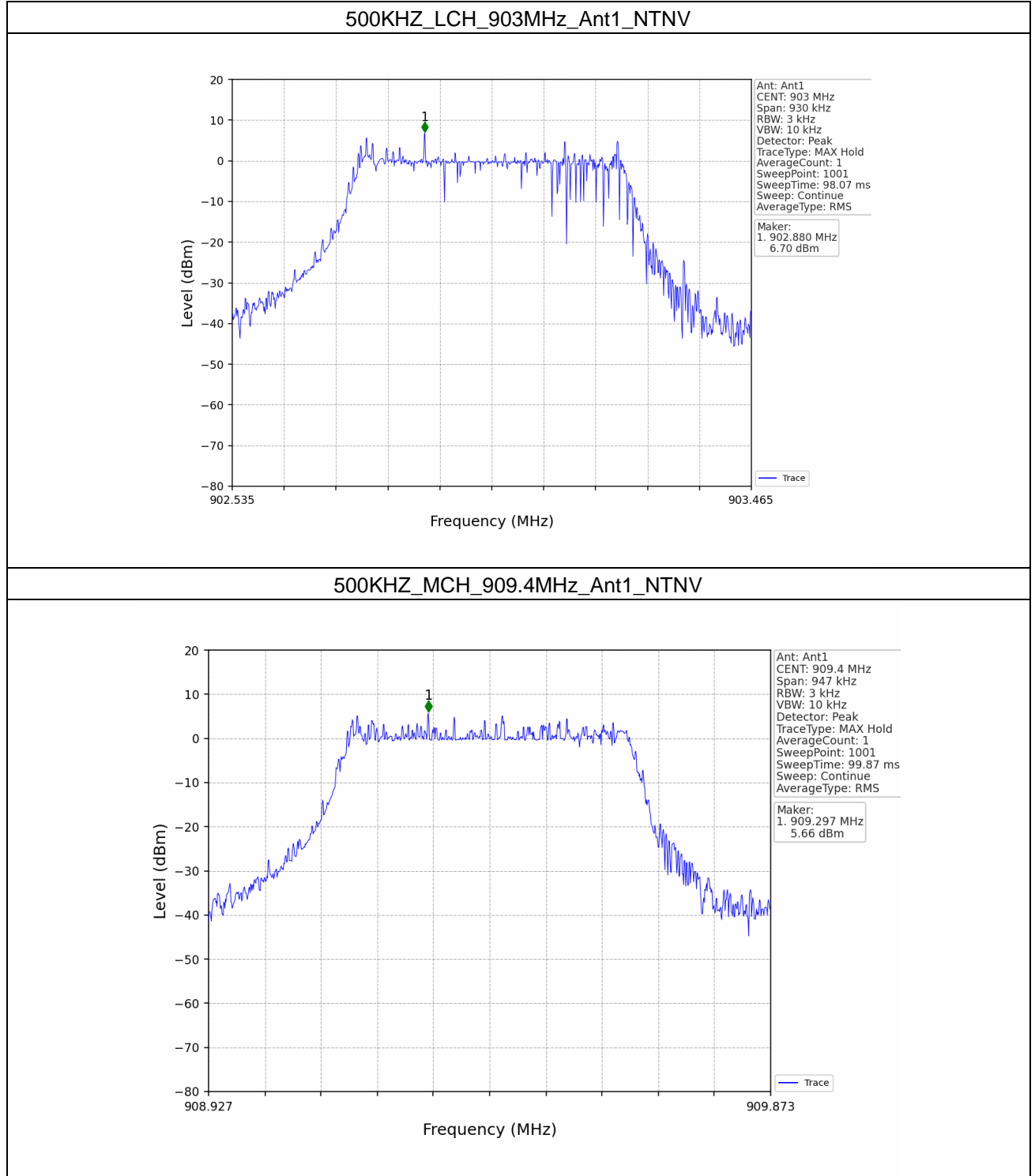
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
500KHZ	SISO	903	6.70	<=8	Pass
		909.4	5.66	<=8	Pass
		914.2	5.32	<=8	Pass



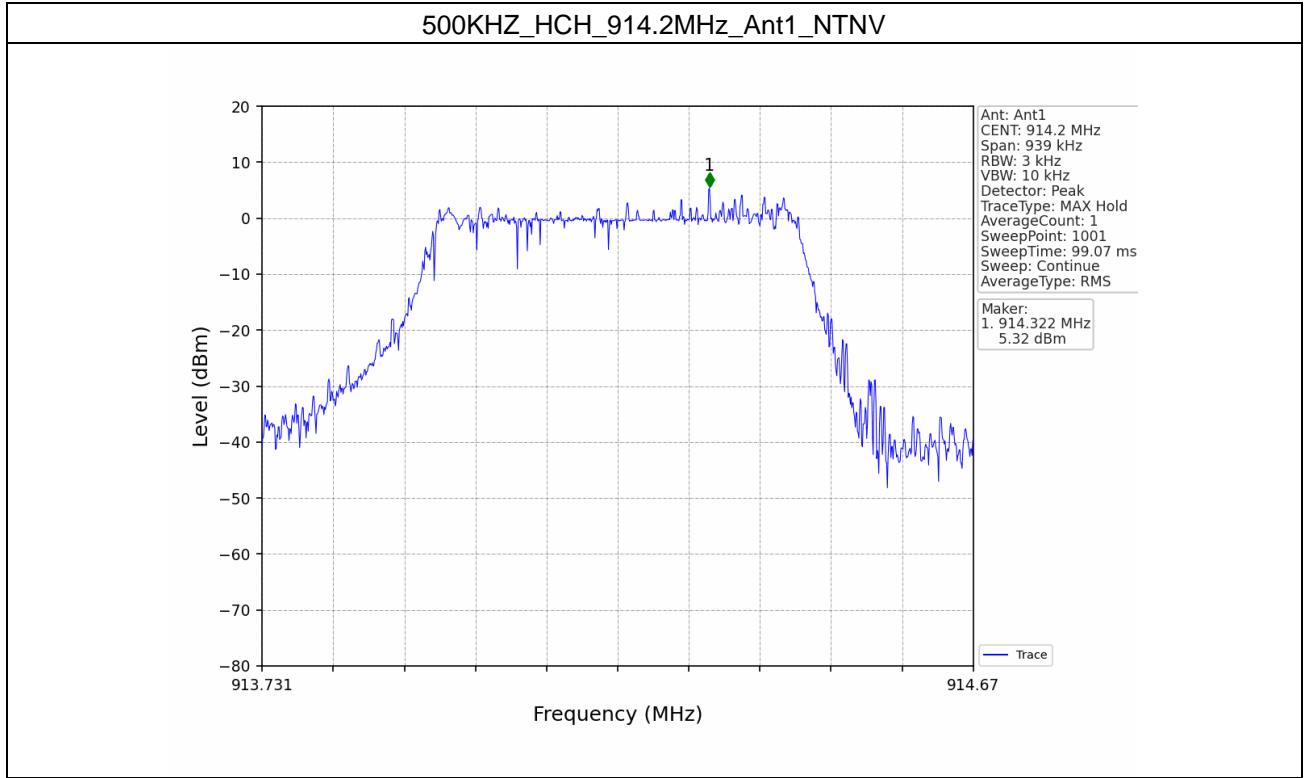
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4.1.2 Test Graph



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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

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

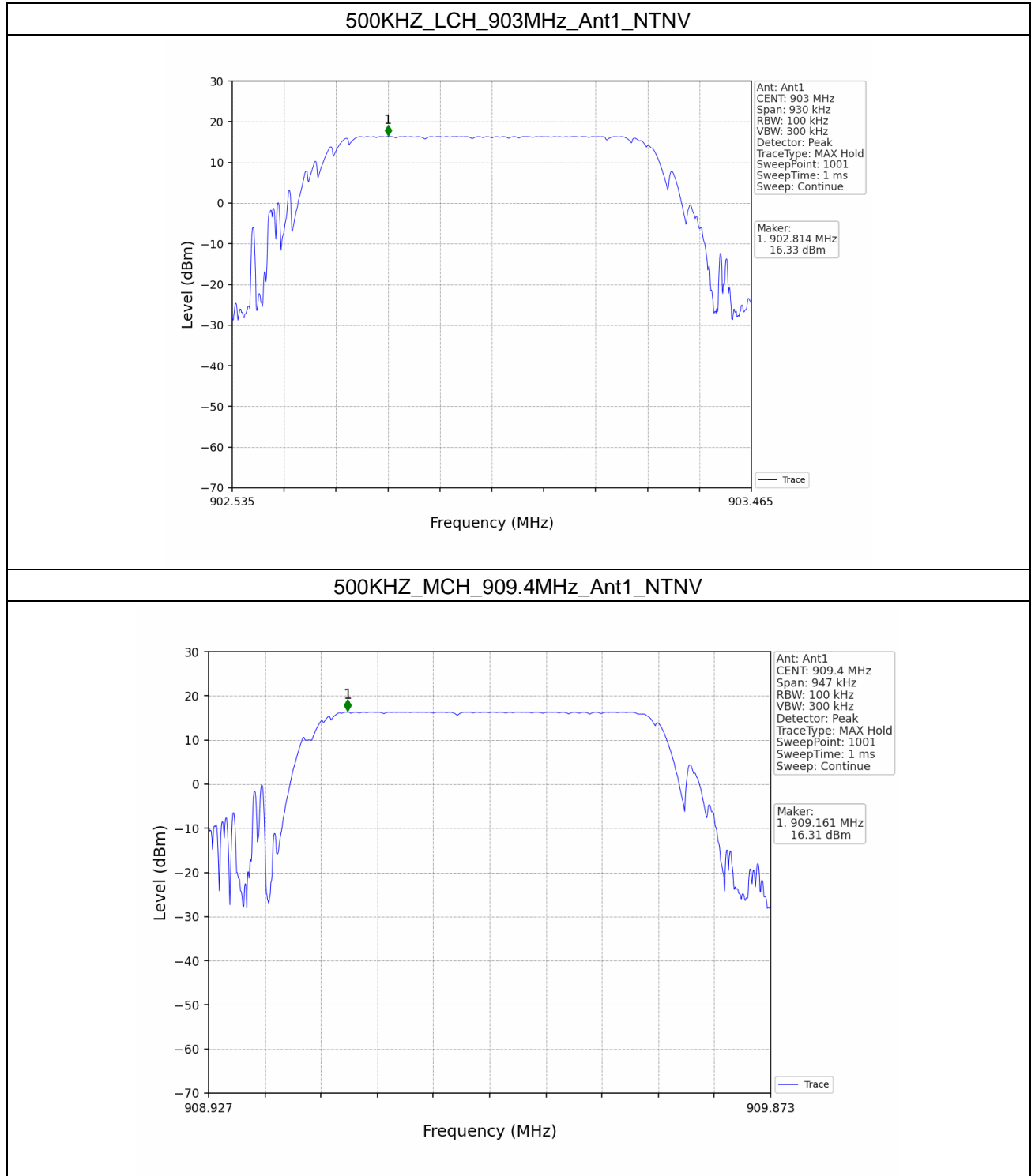
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
500KHZ	SISO	903	1	16.33
		909.4	1	16.31
		914.2	1	16.30



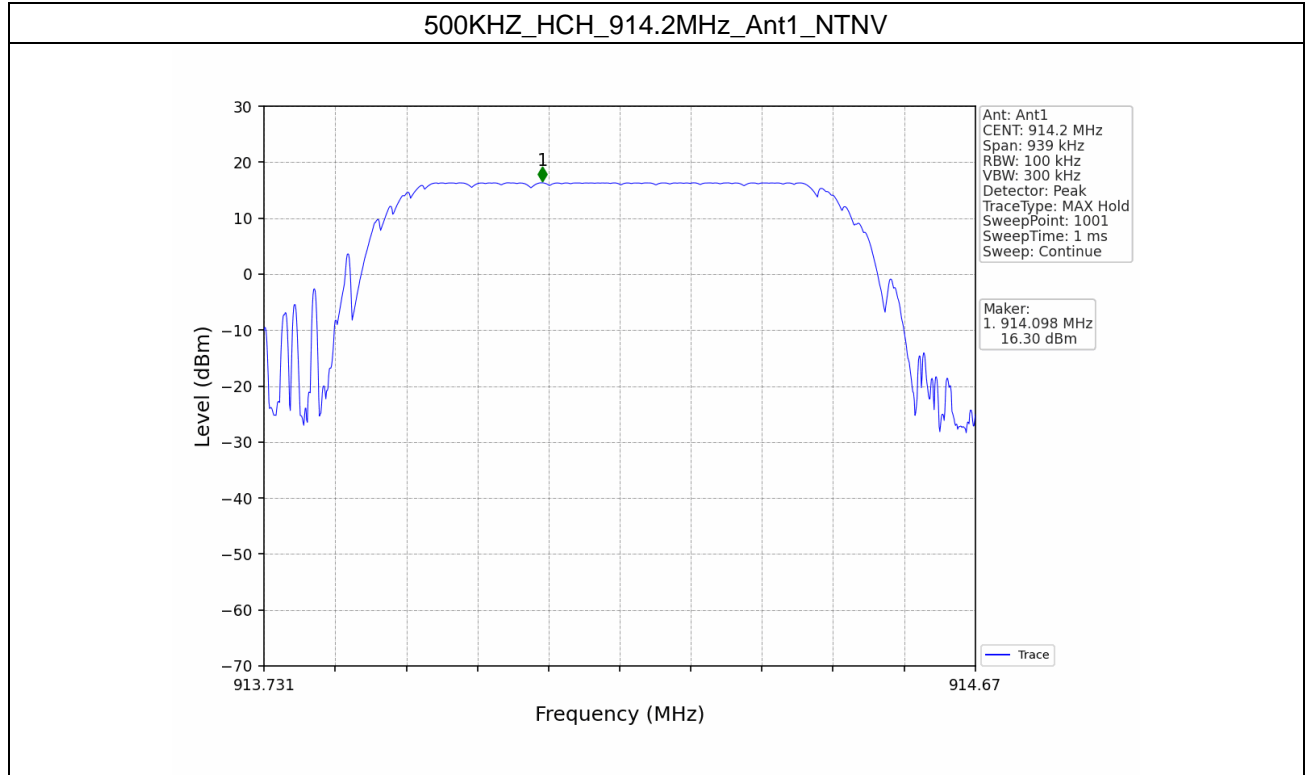
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5.2 CSE

5.2.1 Test Result

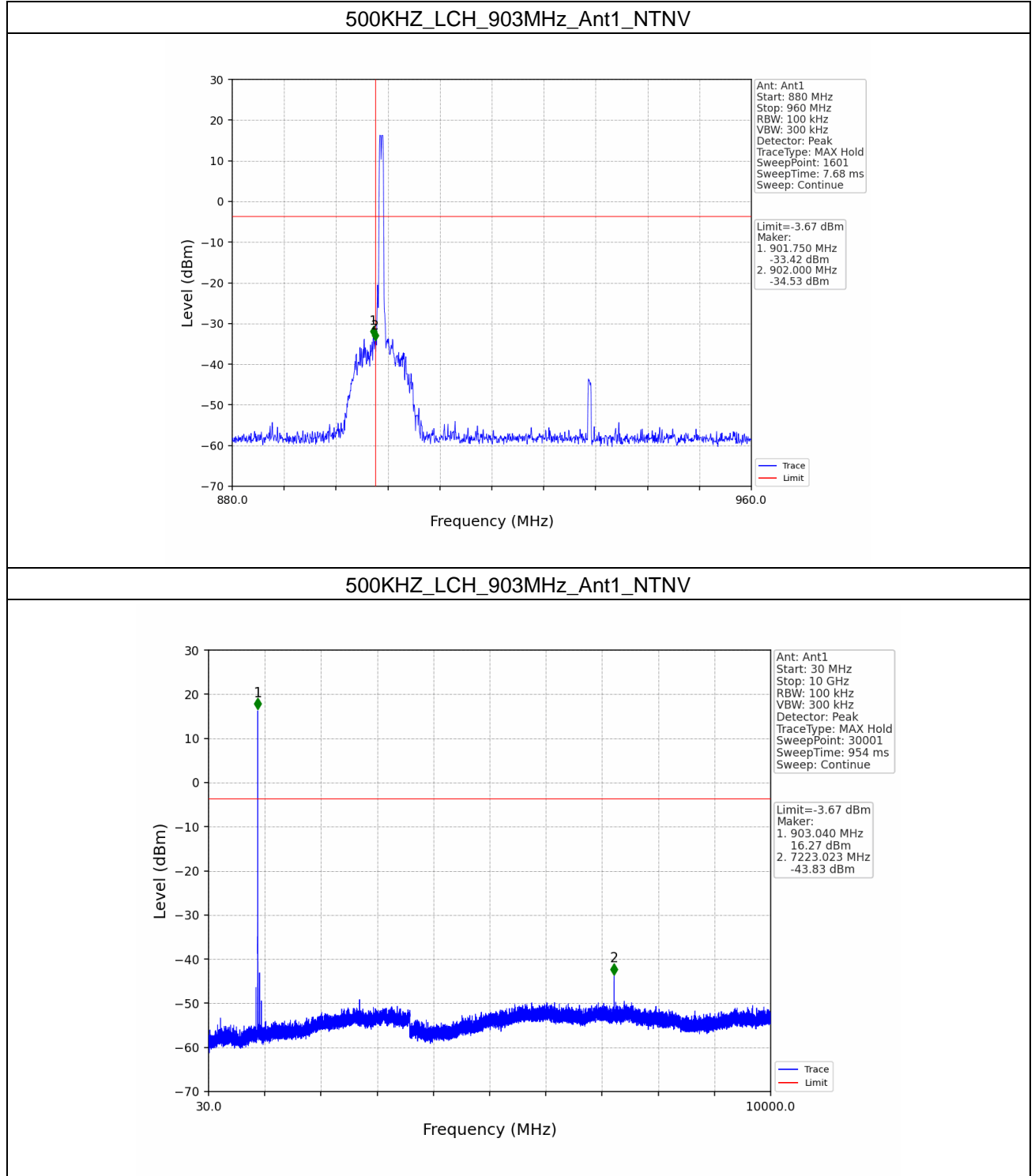
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
500KHZ	SISO	903	1	16.33	-3.67	Pass
		909.4	1	16.33	-3.67	Pass
		914.2	1	16.33	-3.67	Pass



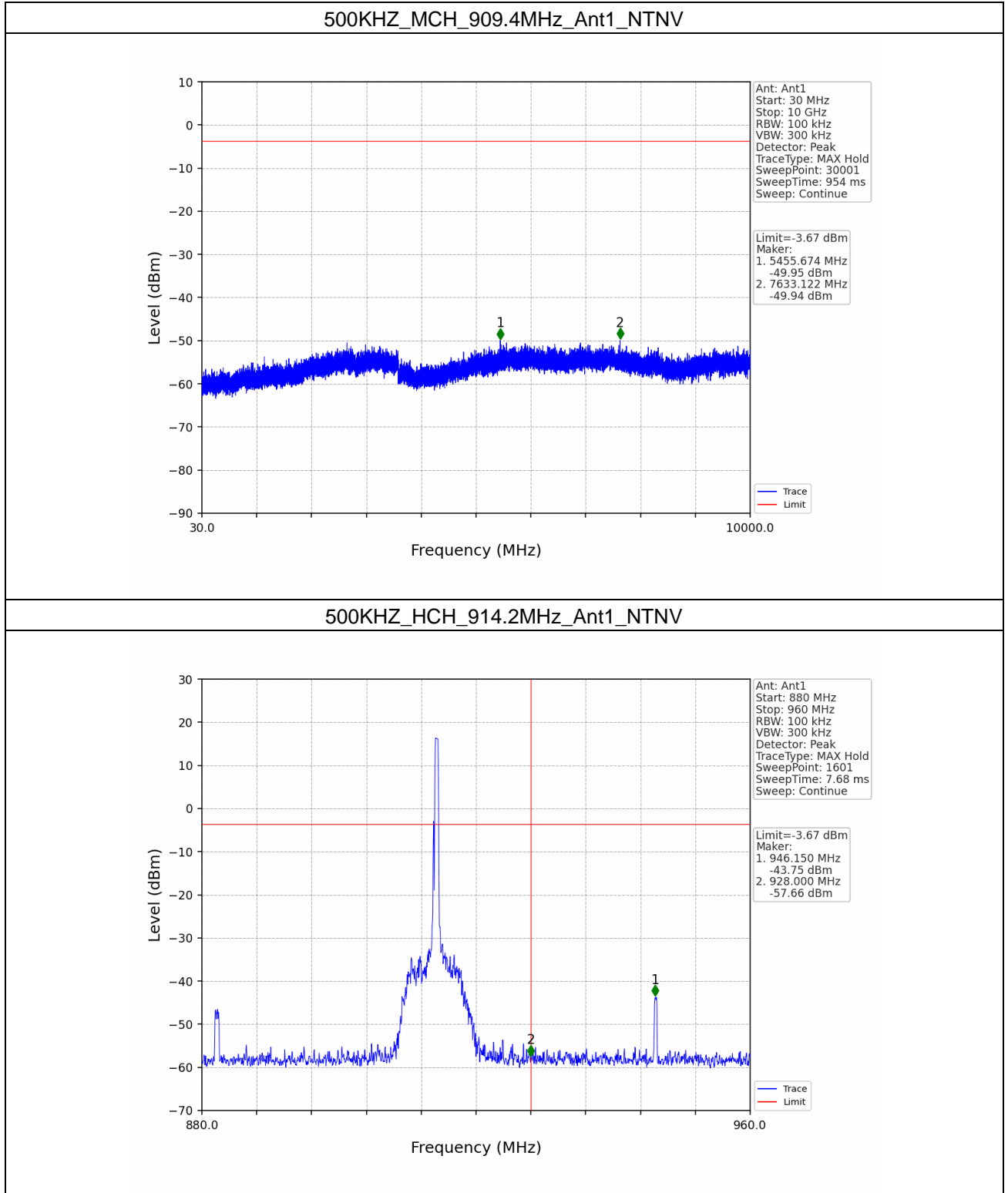
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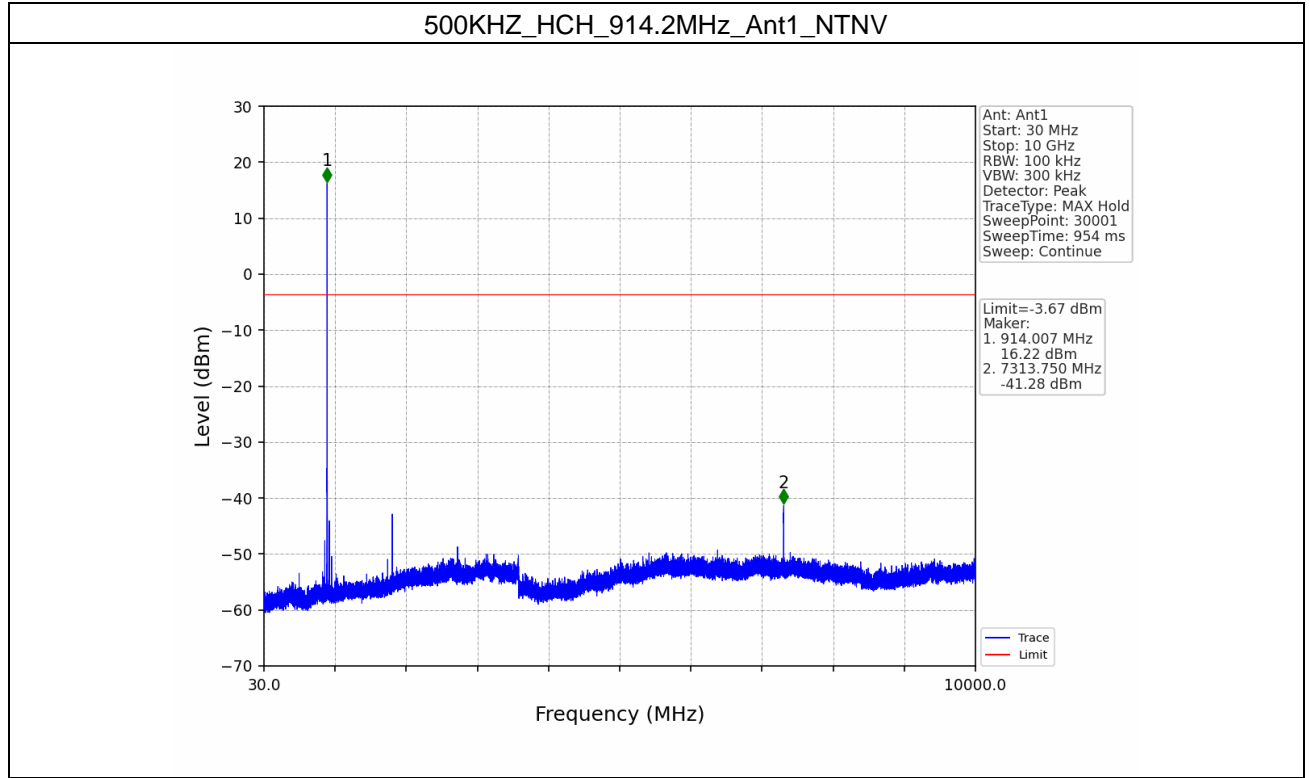
5.2.2 Test Graph



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FHSS 902.3MHz to 927.6MHz:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

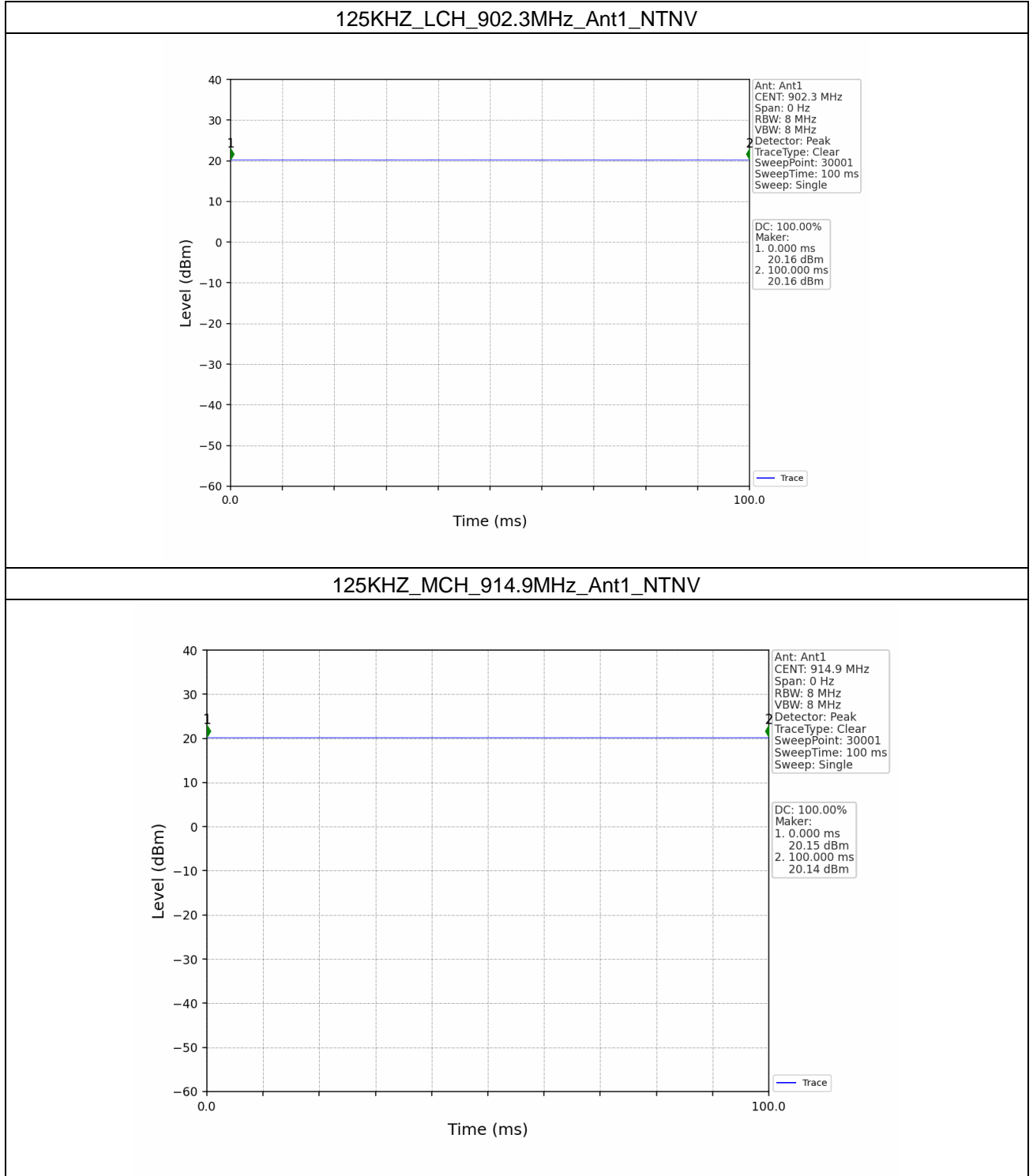
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
125KHZ	SISO	902.3	100.000	100.000	100.00	0.00	0.00
		914.9	100.000	100.000	100.00	0.00	0.00
		927.6	100.000	100.000	100.00	0.00	0.00



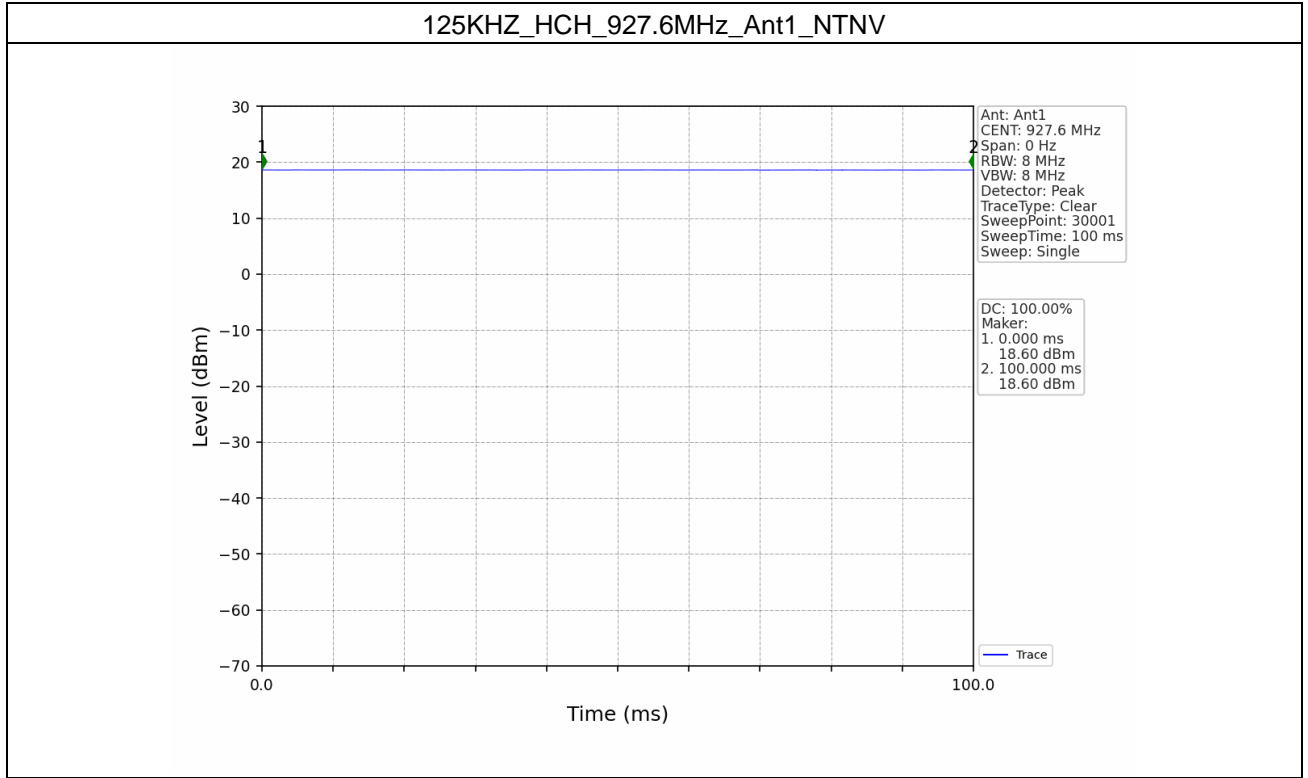
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.1.2 Test Graph



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

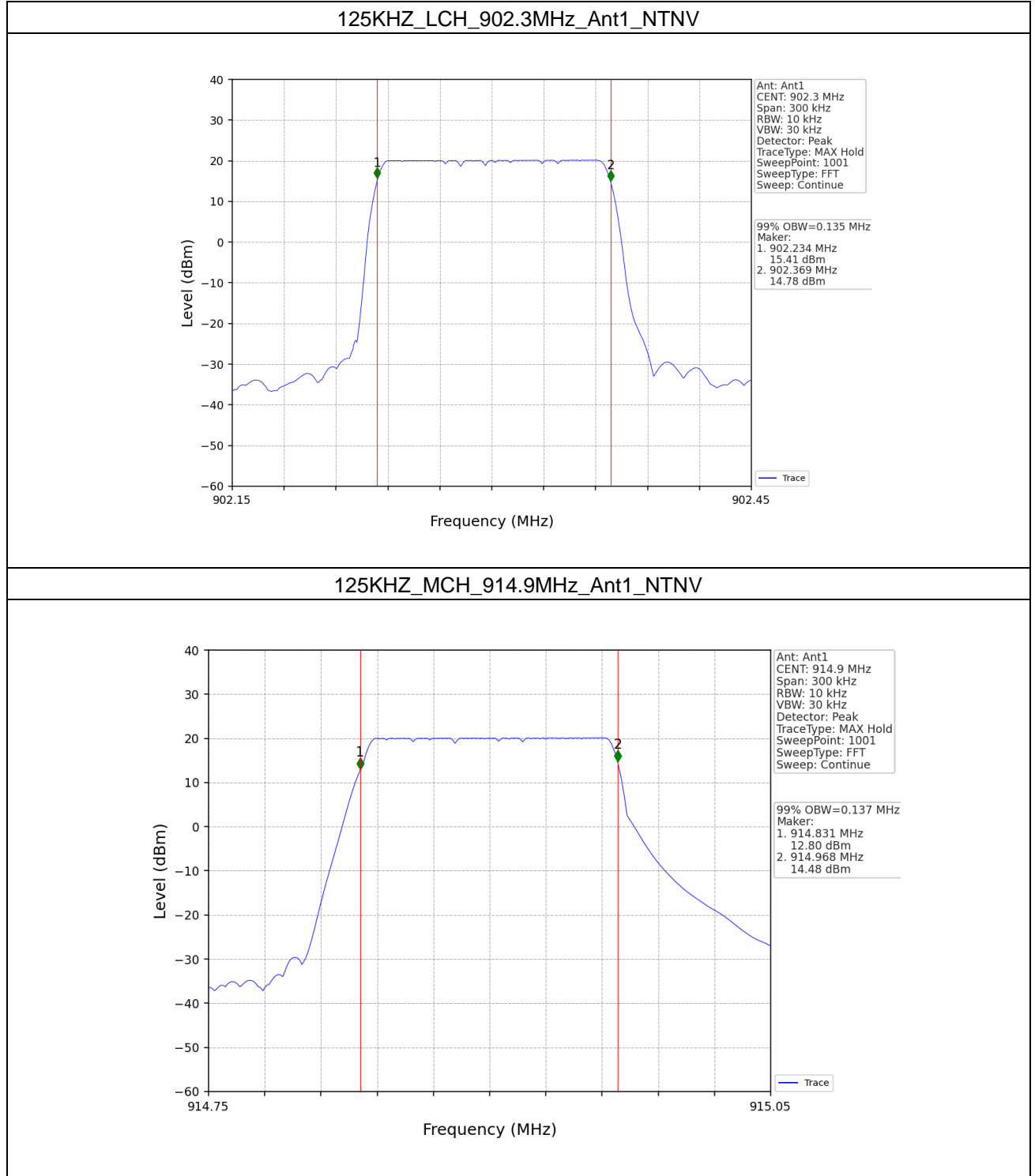
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
125KHZ	SISO	902.3	1	0.135	/	Pass
		914.9	1	0.137	/	Pass
		927.6	1	0.138	/	Pass



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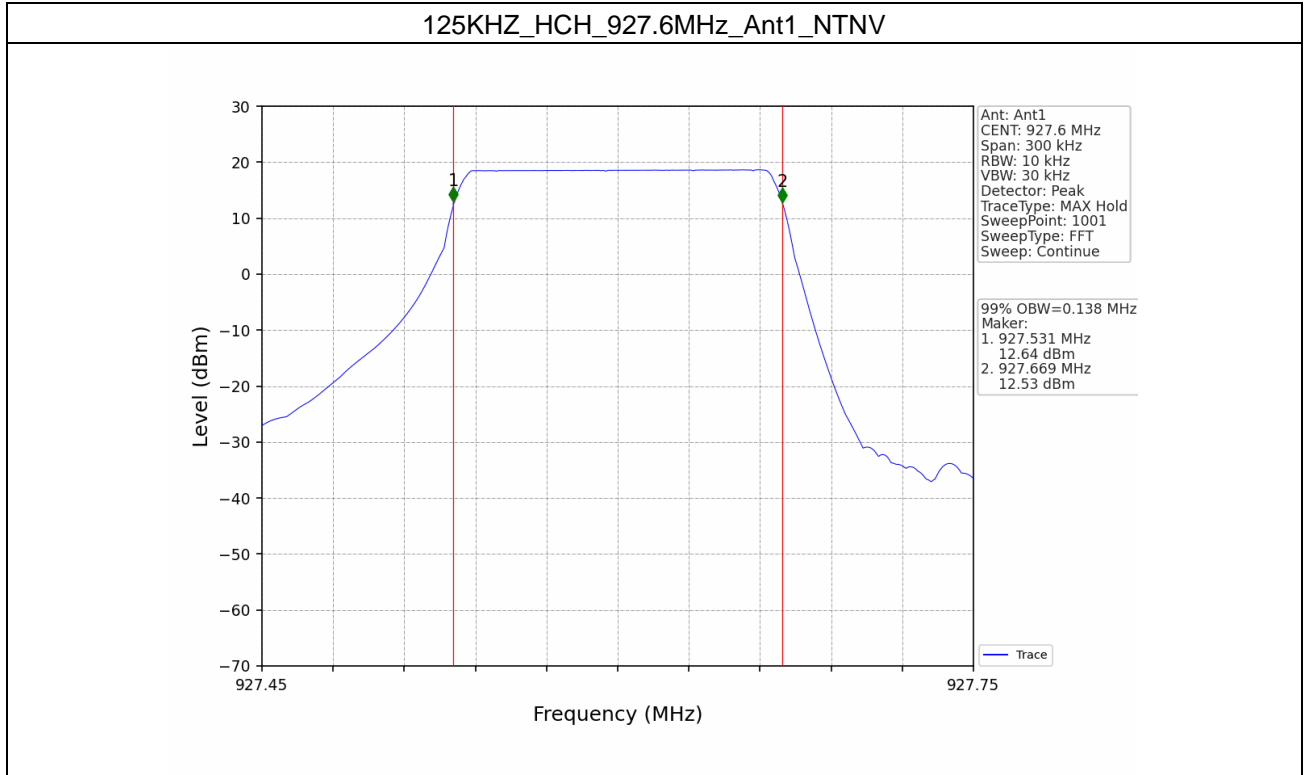
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2.1.2 Test Graph



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2.2 20dB BW

2.2.1 Test Result

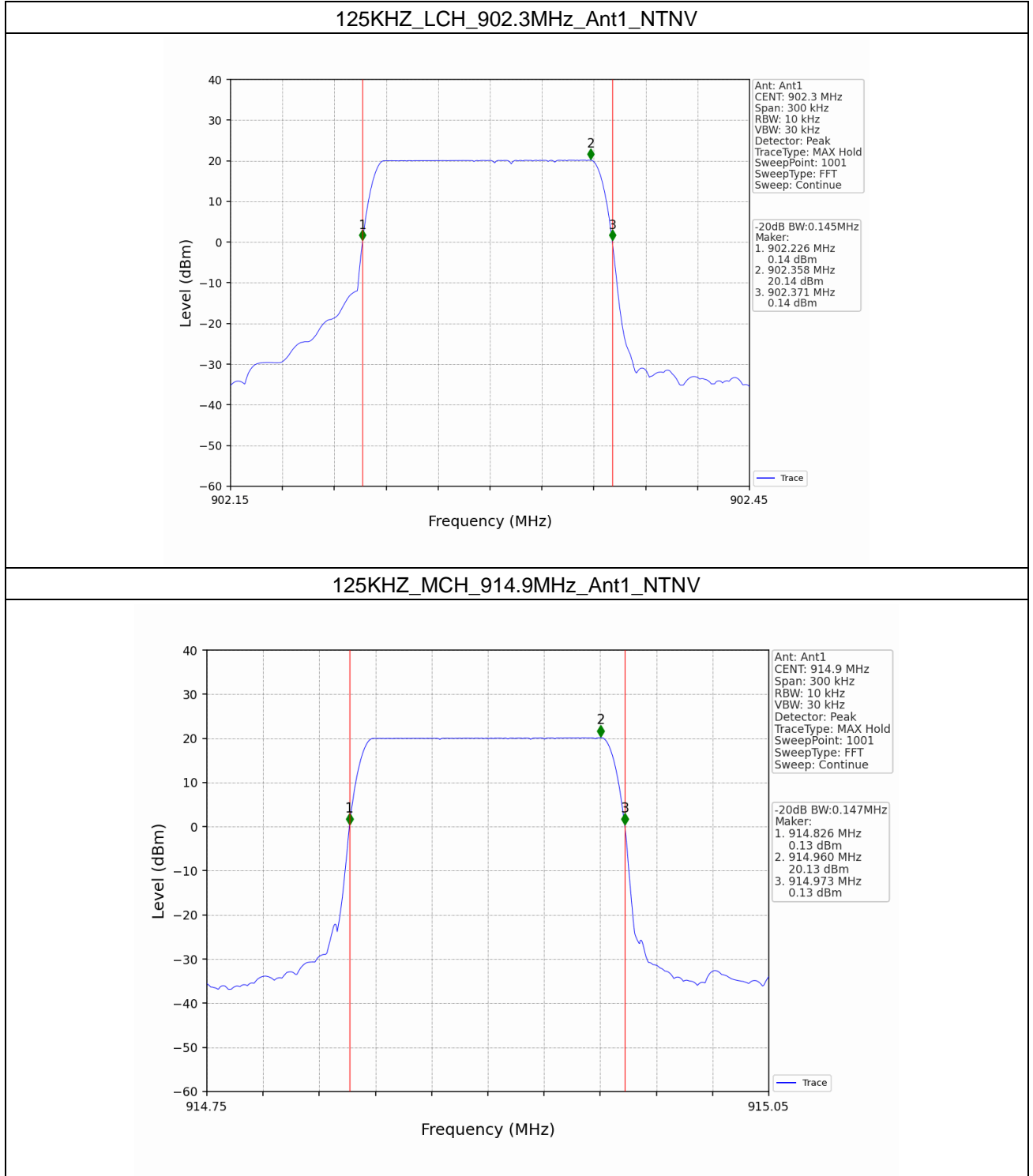
Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
125KHZ	SISO	902.3	1	0.145	/	Pass
		914.9	1	0.147	/	Pass
		927.6	1	0.160	/	Pass



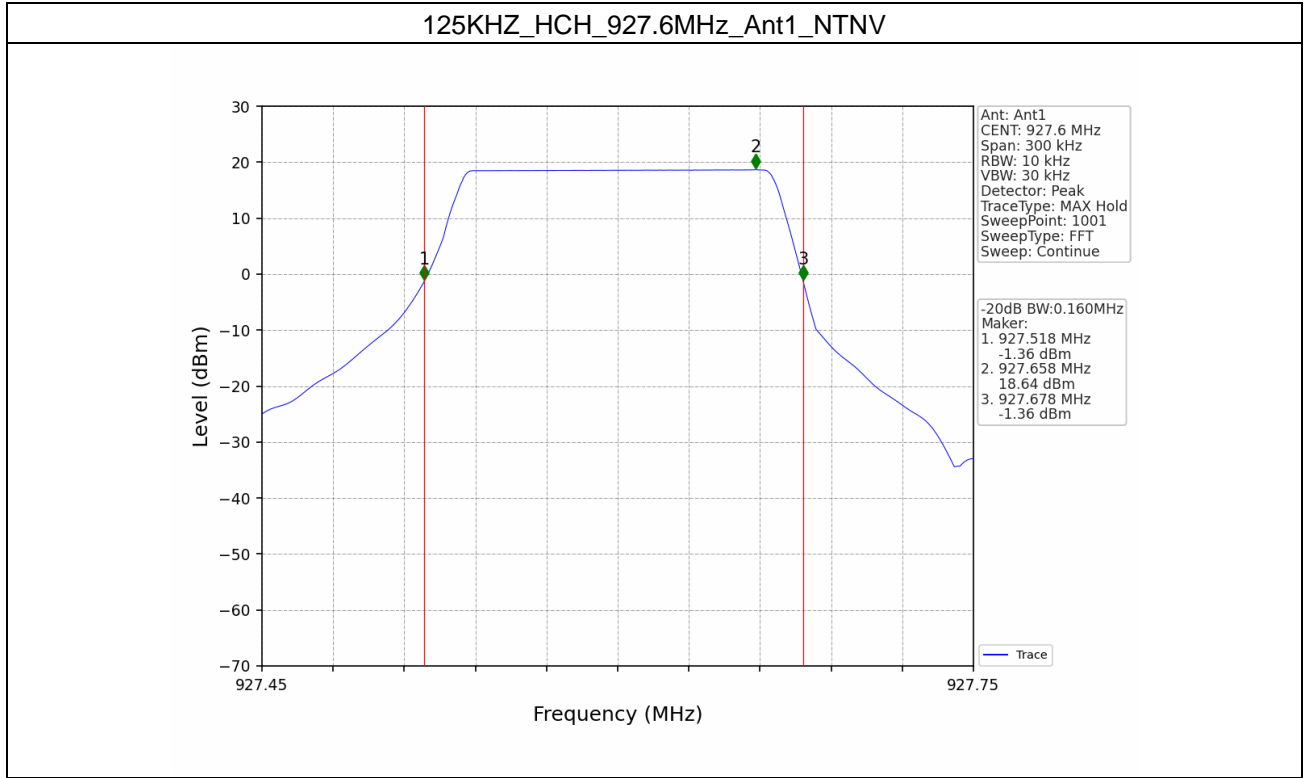
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2.2.2 Test Graph



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
125KHZ	SISO	902.3	16.43	<=30	Pass
		914.9	16.38	<=30	Pass
		927.6	16.36	<=30	Pass



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4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

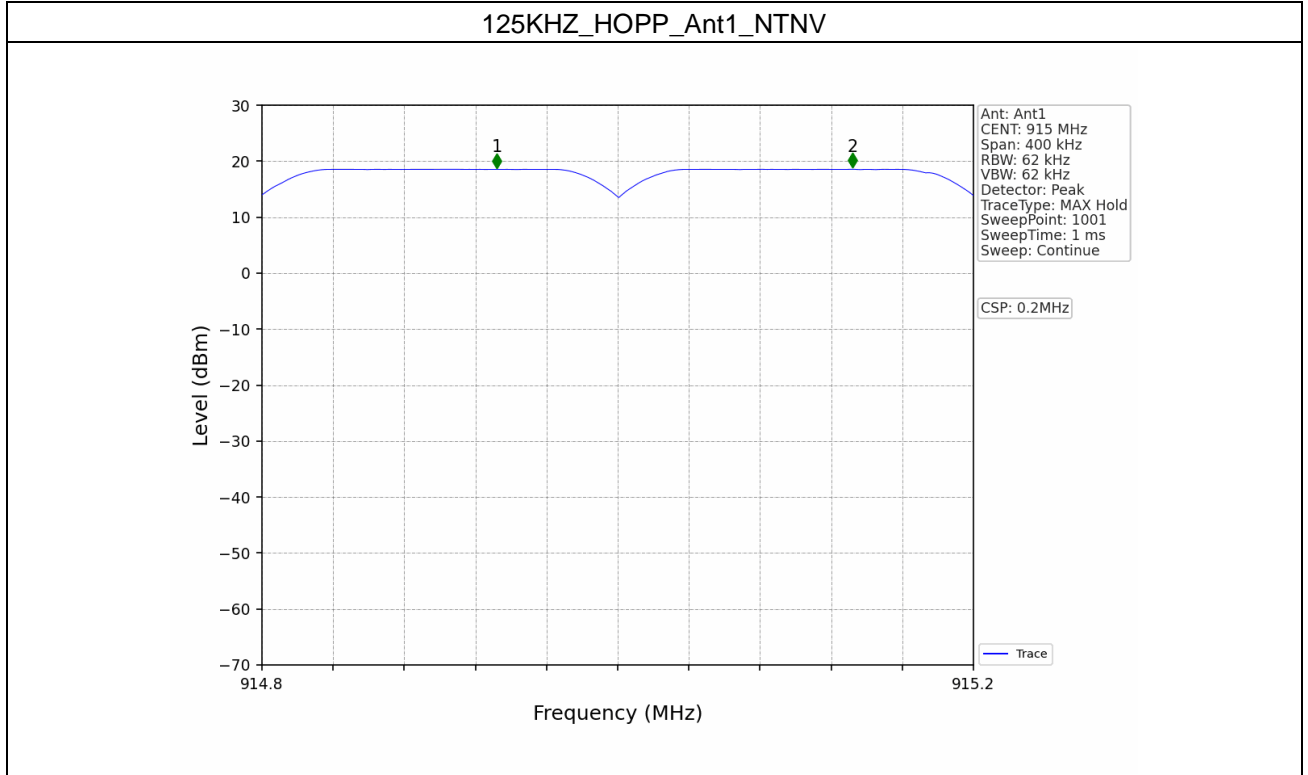
Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
125KHZ	SISO	HOPP	0.200	0.160	>=0.16	Pass



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4.1.2 Test Graph



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5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

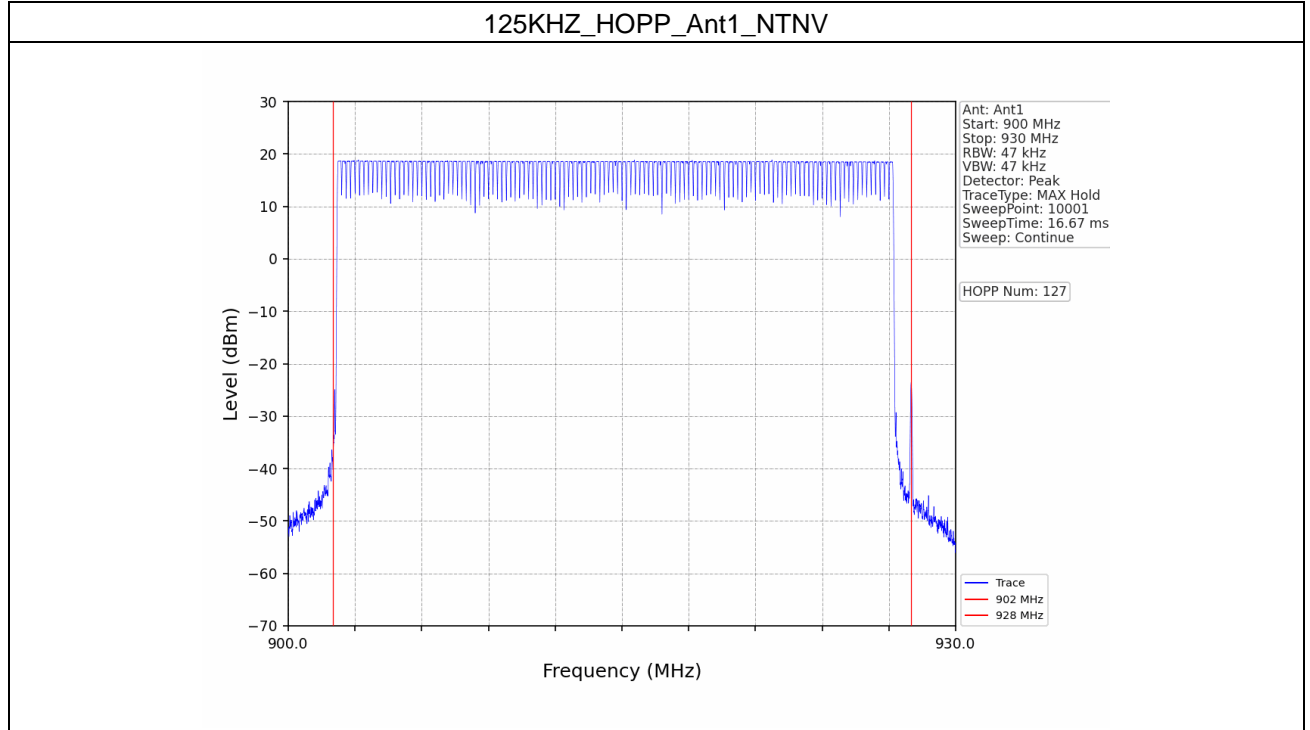
Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
125KHZ	SISO	HOPP	127	50	Pass



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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

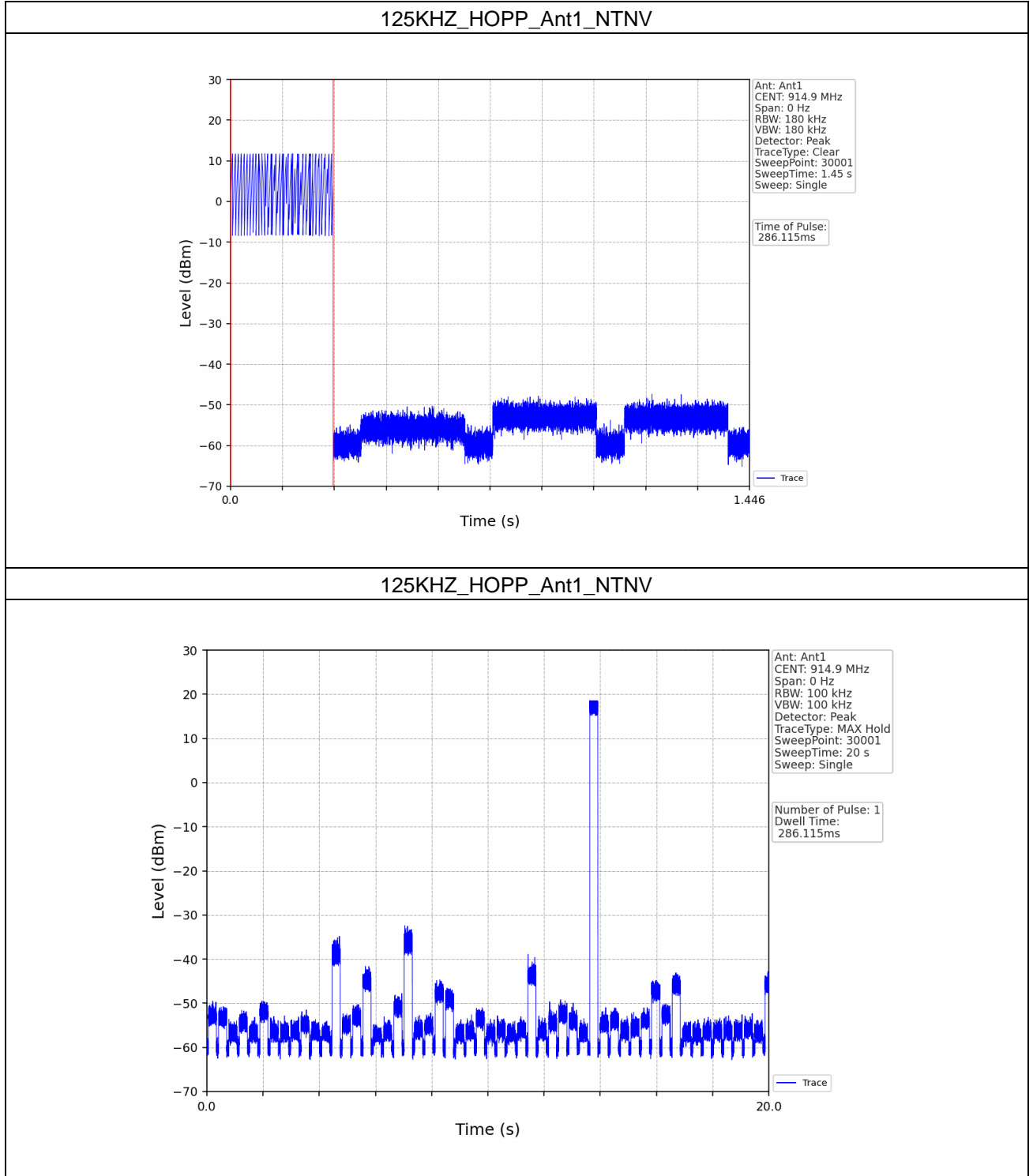
Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
125KHZ	SISO	HOPP	286.115	20.000	1	286.115	<=400	Pass



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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

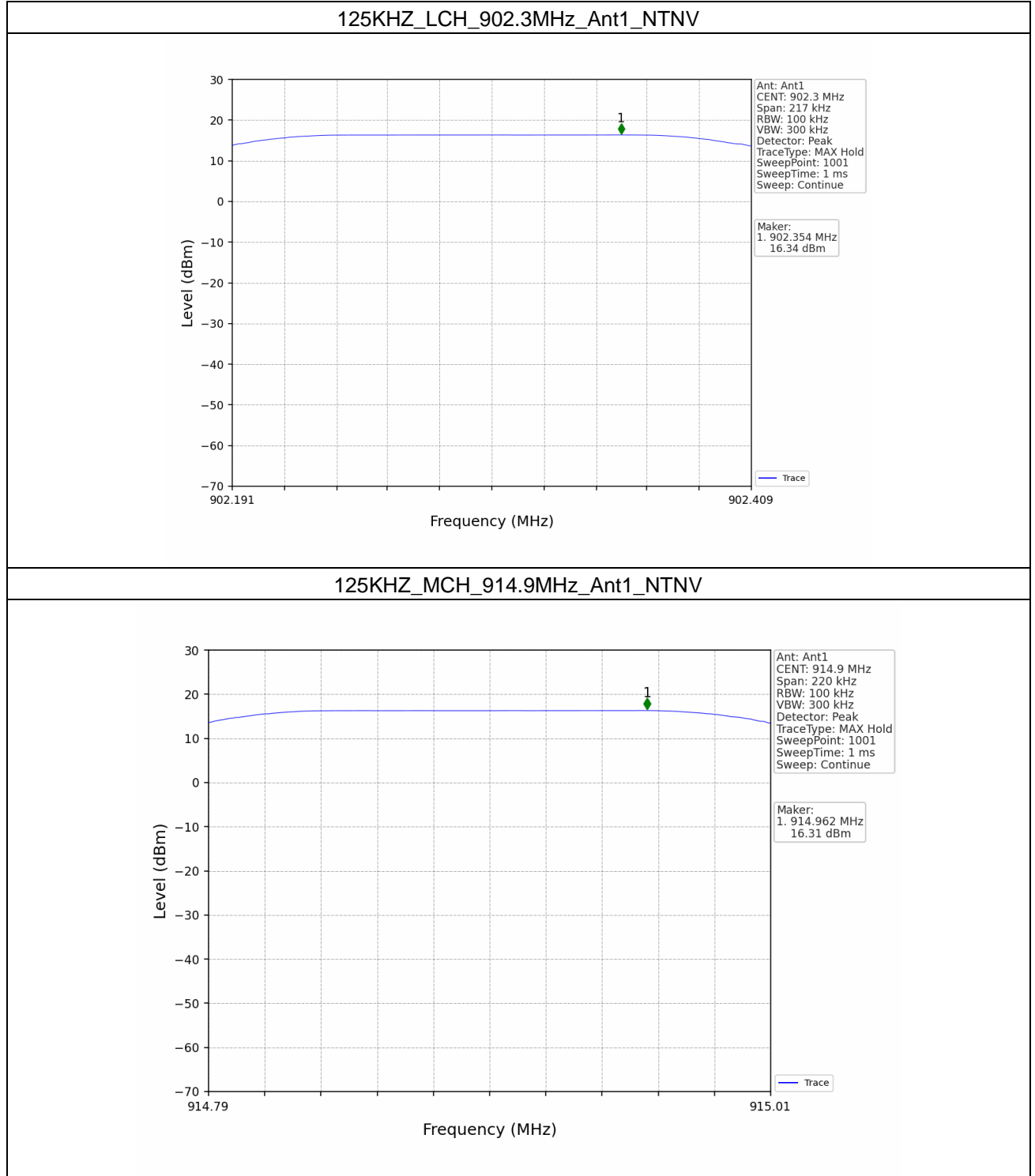
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
125KHZ	SISO	902.3	1	16.34
		914.9	1	16.31
		927.6	1	16.26



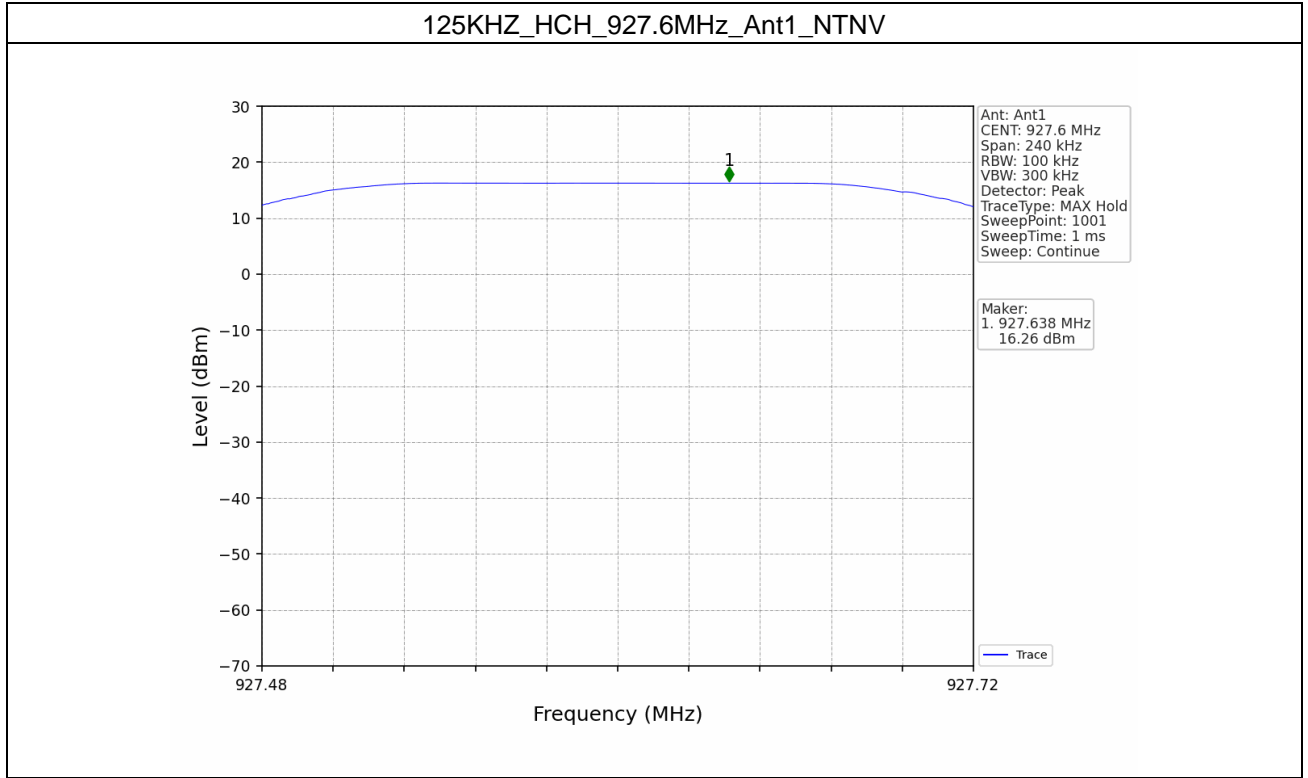
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7.1.2 Test Graph



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7.2 CSE

7.2.1 Test Result

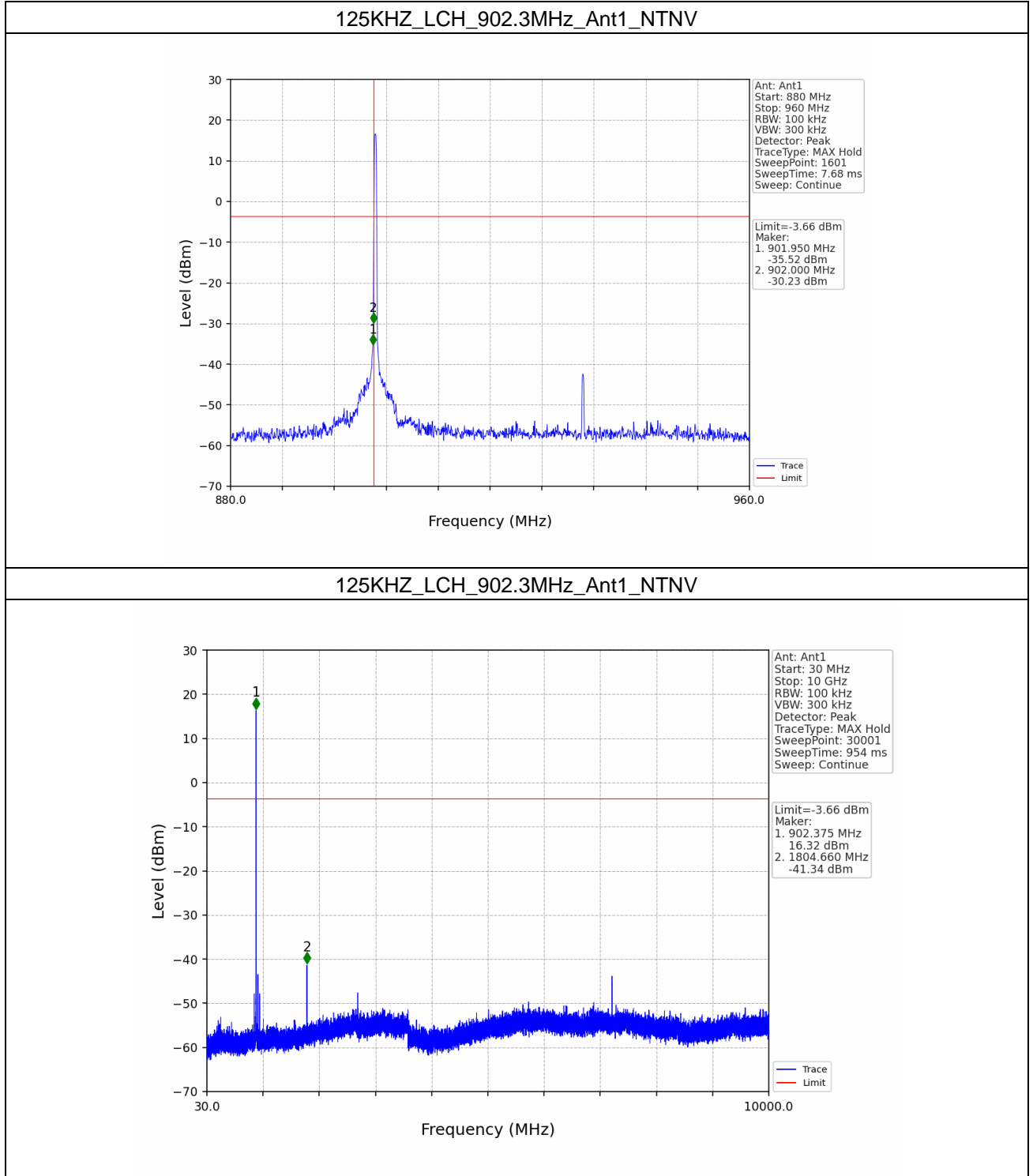
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
125KHZ	SISO	902.3	1	16.34	-3.66	Pass
		914.9	1	16.34	-3.66	Pass
		927.6	1	16.34	-3.66	Pass
		HOPP	1	16.34	-3.66	Pass
				16.34	-3.66	Pass



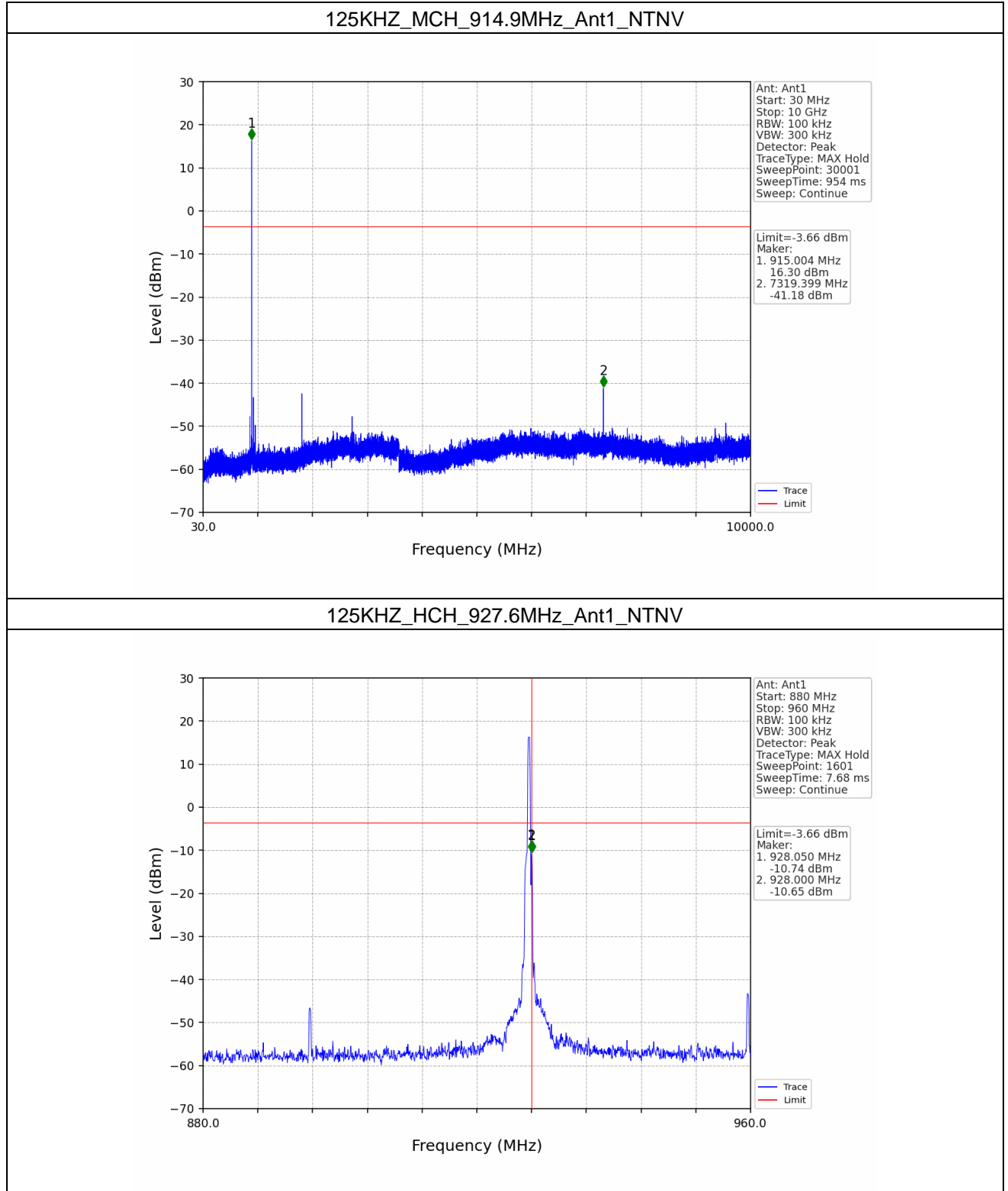
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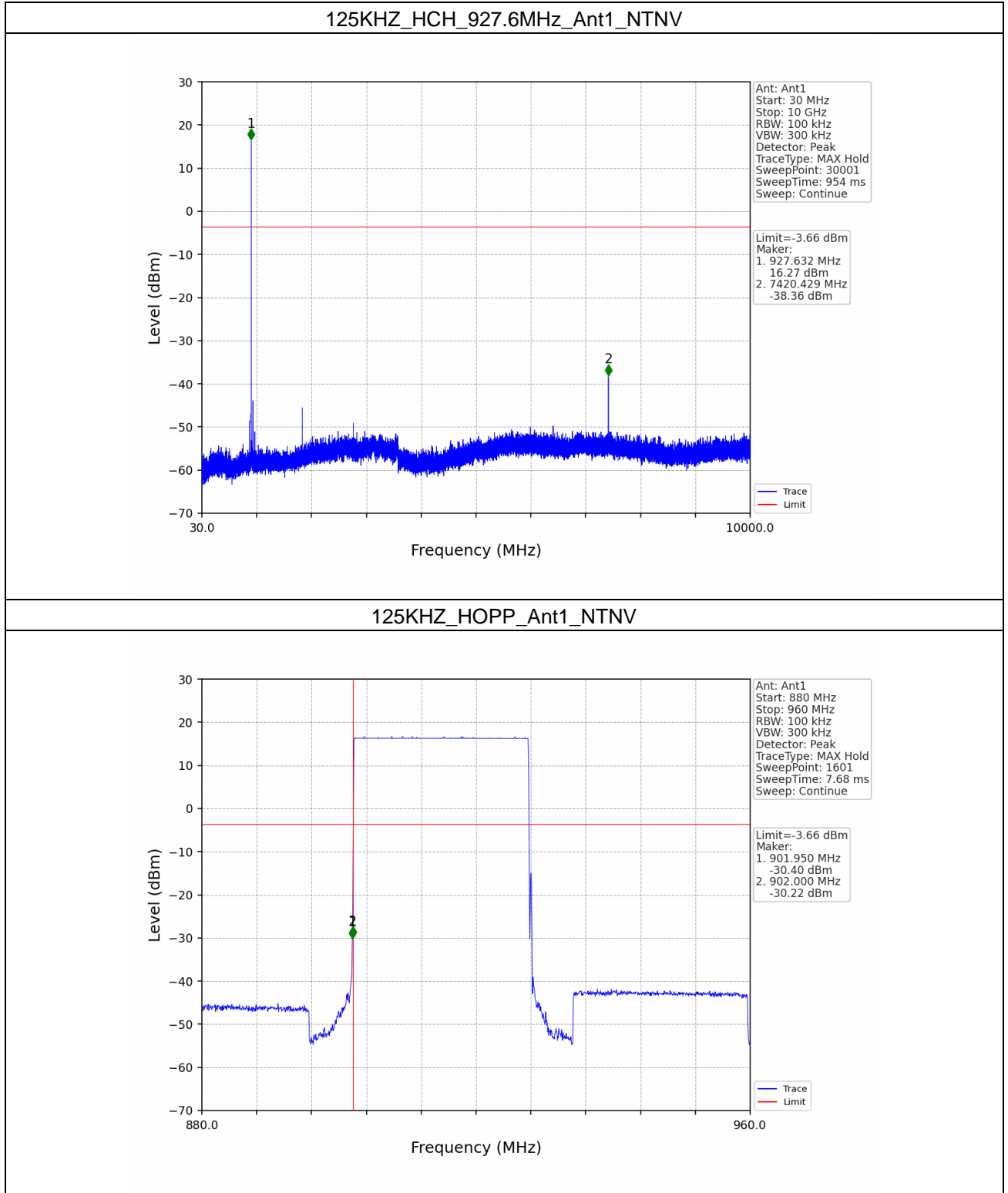
7.2.2 Test Graph



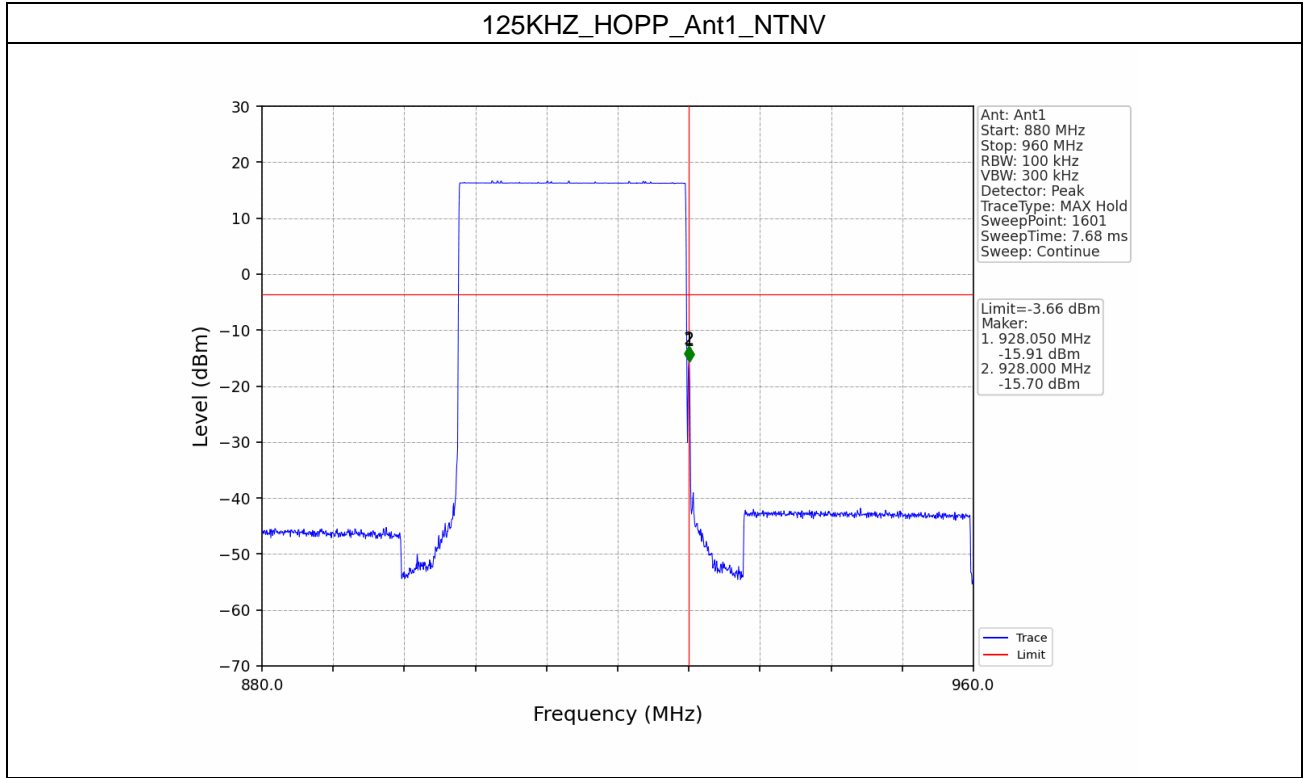
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- End of the Report -



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