

TEST REPORT

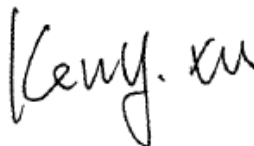
Application No.: SZCR2212004131AT
Applicant: Shenzhen RAKwireless Technology Co.,Ltd.
Address of Applicant: Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, China
Manufacturer: Shenzhen RAKwireless Technology Co.,Ltd.
Address of Manufacturer: Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: All-in-One. 5G
Model No.: M320
Trade Mark: RAK, MNTD
FCC ID: 2AF6B-M320
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-12-08
Date of Test: 2023-03-14 to 2023-04-08
Date of Issue: 2023-04-19

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



Keny Xu
EMC Laboratory Manager



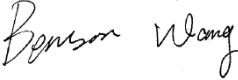
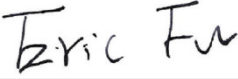
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413102

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-04-19		Original

Authorized for issue by:			
			
		<hr/>	
		Benson Wang/Project Engineer	
			
		<hr/>	
		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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		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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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by POE adapter: Adapter model: RP026-5601080YE Input: AC 100-240V 50/60Hz Output: DC 56.0V 1.08A
Cable:	Lan cable x 2: 302cm unshielded
Technical Specification of Lora DTS	
Operating Frequency:	904.6MHz (SF8) 923.3 - 927.5MHz (SF7 - SF12)
Type of Modulation:	LoRa
Data Rate:	SF7 - SF12, SF8 (904.6MHz)
Channel Number:	9 Channels
Channel Separation:	600KHz
Occupied Bandwidth:	500KHz
Technical Specification of Lora Hybrid	
Operating Frequency:	903.9 - 905.3MHz
Type of Modulation:	LoRa
Data Rate:	SF7 -SF9 - SF10
Channel Number:	8 Channels (DSS & DTS)
Channel Separation:	200KHz
Occupied Bandwidth:	125KHz
Antenna Gain:	Integral Antenna: 3dBi Fiberglass Antenna 1 (RAKARG14): 5.8dBi; Fiberglass Antenna 2 (RAKARG19): 5.1dBi;
<ol style="list-style-type: none"> The EUT have a integral antenna and two different Fiberglass antennas. The Integral antenna and Fiberglass antenna cannot transmit simultaneously. The Fiberglass Antenna 1 and 2 have the same type and RF characteristics as equivalent antenna, so, only the Fiberglass Antenna 1(High antenna gain) was tested in the report. 	



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RF Channel and Frequency of Lora DTS

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	904.6	3	923.9	5	925.1	7	926.3
2	923.3	4	924.5	6	925.7	8	926.9
9	927.5						

RF Channel and Frequency of Lora Hybrid

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	903.9	3	904.3	5	904.7	7	905.1
2	904.1	4	904.5	6	904.9	8	905.3

DR	配置	Indicative physical bit rate [bit/sec]
0	LoRa Modulation: SF10 / Bandwidth 125 kHz	980
1	LoRa Modulation: SF9 / Bandwidth 125 kHz	1760
2	LoRa Modulation: SF8 / Bandwidth 125 kHz	3125
3	LoRa Modulation: SF7 / Bandwidth 125 kHz	5470
4	LoRa Modulation: SF8 / Bandwidth 500 kHz	12500
5~7		
8	LoRa Modulation: SF12 / Bandwidth 500 kHz	980
9	LoRa Modulation: SF11 / Bandwidth 500 kHz	1760
10	LoRa Modulation: SF10 / Bandwidth 500 kHz	3900
11	LoRa Modulation: SF9 / Bandwidth 500 kHz	7000
12	LoRa Modulation: SF8 / Bandwidth 500 kHz	12500
13	LoRa Modulation: SF7 / Bandwidth 500 kHz	21900

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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 Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
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.



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, 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

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2022-03-21 2023-03-20	2023-03-20 2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2022-03-21 2023-03-20	2023-03-20 2024-03-19

RF conducted					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-21 2023-03-20	2023-03-20 2024-03-19
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-03-21 2023-03-20	2023-03-20 2024-03-19

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-21 2023-03-20	2023-03-20 2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07



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Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-21 2023-03-20	2023-03-20 2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2022-03-21 2023-03-20	2023-03-20 2024-03-19



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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

15.203 requirement:

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

EUT Antenna:

1. The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna of Integral Antenna gain is:
2. The antenna is N-type male connector what is connect to the R-SMA of EUT and no consideration of replacement. The best case gain of the antenna as the following:
Fiberglass Antenna 1 (RAKARG14): 5.8dBi;
Fiberglass Antenna 2 (RAKARG19): 5.1dBi;

Antenna location: Refer to external photos



7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Pre-scan	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Pre-scan	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Pre-scan	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Pre-scan	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Pre-scan	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Pre-scan	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Pre-scan	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Pre-scan	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Pre-scan	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Pre-scan	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Pre-scan	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Pre-scan	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Pre-scan	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.

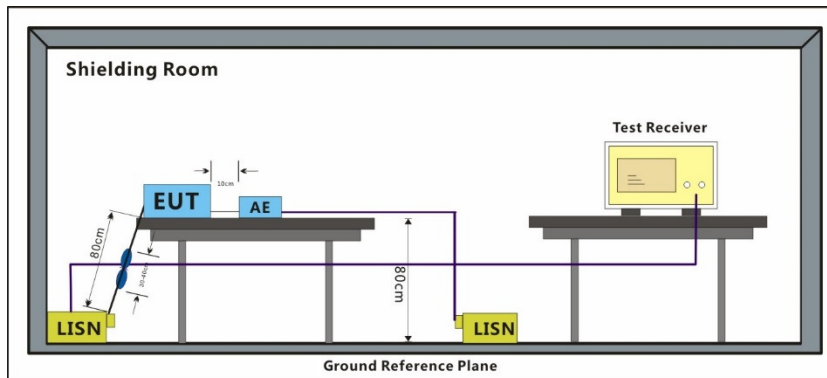


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Pre-scan	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Pre-scan	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.
Pre-scan	16	FHSS Mode_Keep the EUT in FHSS mode with SF7.
Pre-scan	17	FHSS Mode_Keep the EUT in FHSS mode with SF9.
Pre-scan	18	FHSS Mode_Keep the EUT in FHSS mode with SF10.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

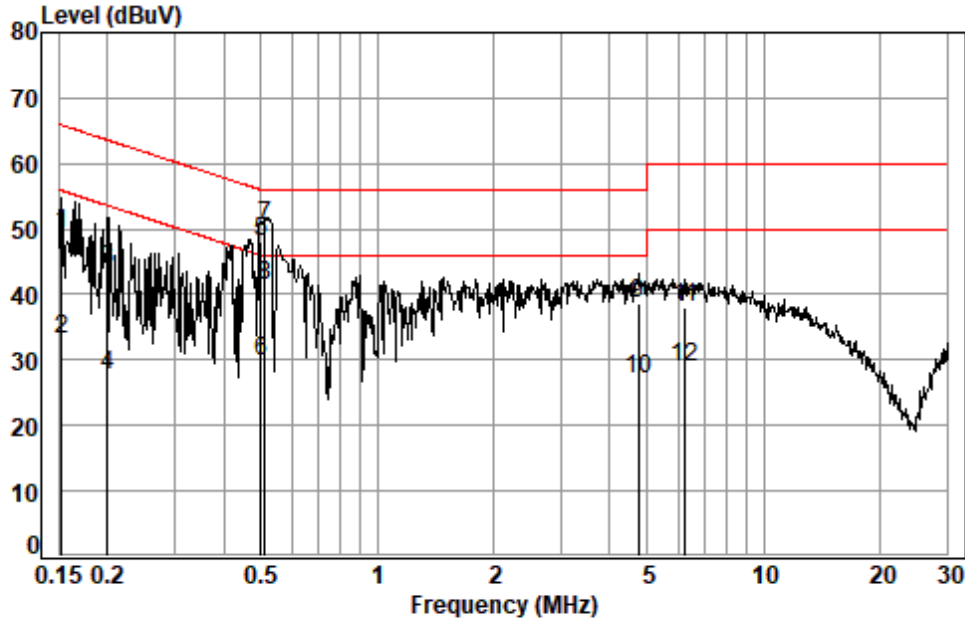
Remark: Level=Read Level+ Cable Loss+ LISN Factor

- 6) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.



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Test Mode: 00; Line: Live line



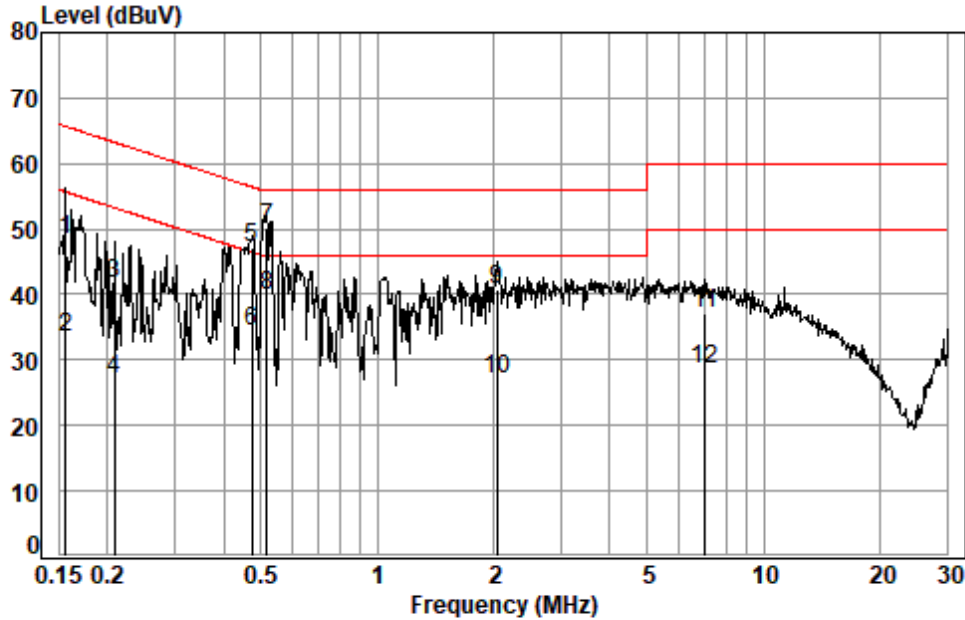
Site : Shielding Room
 Condition: Line
 Job No. : 04131AT
 Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1524	0.03	9.63	39.74	49.40	65.87	-16.47 QP
2	0.1524	0.03	9.63	23.44	33.10	55.87	-22.77 Average
3	0.2007	0.04	9.62	34.12	43.78	63.58	-19.80 QP
4	0.2007	0.04	9.62	18.11	27.77	53.58	-25.81 Average
5	0.4994	0.05	9.62	38.39	48.06	56.01	-7.95 QP
6	0.4994	0.05	9.62	20.06	29.73	46.01	-16.28 Average
7 *	0.5128	0.06	9.62	40.76	50.44	56.00	-5.56 QP
8 *	0.5128	0.06	9.62	31.54	41.22	46.00	-4.78 Average
9	4.7464	0.15	9.67	28.74	38.56	56.00	-17.44 QP
10	4.7464	0.15	9.67	17.27	27.09	46.00	-18.91 Average
11	6.2852	0.17	9.70	28.10	37.97	60.00	-22.03 QP
12	6.2852	0.17	9.70	18.90	28.77	50.00	-21.23 Average



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Test Mode: 00; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 04131AT
 Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1557	0.03	9.62	38.65	48.30	65.69	-17.39 QP
2	0.1557	0.03	9.62	23.67	33.32	55.69	-22.37 Average
3	0.2083	0.04	9.62	32.11	41.77	63.27	-21.50 QP
4	0.2083	0.04	9.62	17.28	26.94	53.27	-26.33 Average
5	0.4736	0.05	9.62	37.48	47.15	56.45	-9.30 QP
6	0.4736	0.05	9.62	24.69	34.36	46.45	-12.09 Average
7 *	0.5182	0.06	9.62	40.43	50.11	56.00	-5.89 QP
8 *	0.5182	0.06	9.62	30.04	39.72	46.00	-6.28 Average
9	2.0441	0.11	9.64	31.00	40.75	56.00	-15.25 QP
10	2.0441	0.11	9.64	17.42	27.17	46.00	-18.83 Average
11	7.0622	0.18	9.72	27.25	37.15	60.00	-22.85 QP
12	7.0622	0.18	9.72	18.65	28.55	50.00	-21.45 Average



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 42.1 % RH

Atmospheric Pressure: 1015 mbar

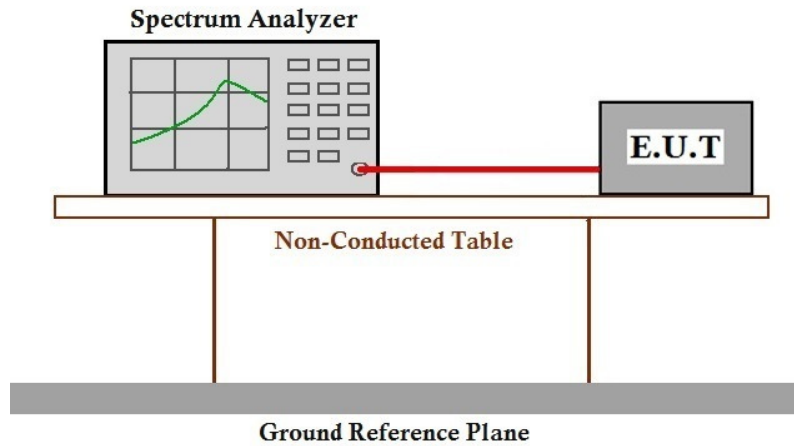
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.



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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.3 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: <= 500kHz

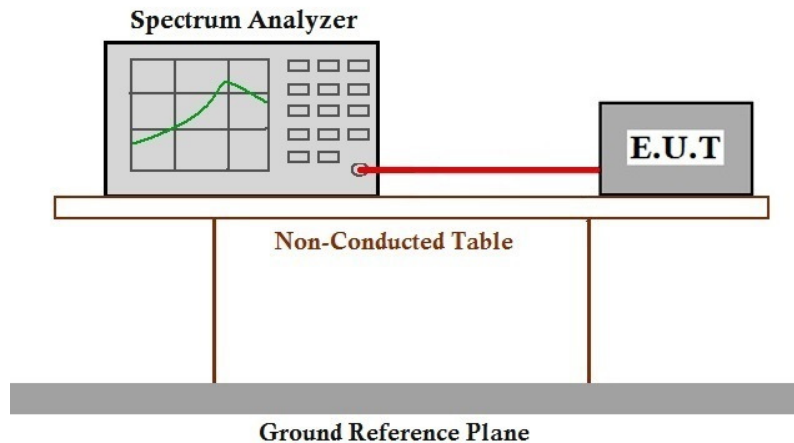
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 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.

7.4.1 E.U.T. Operation

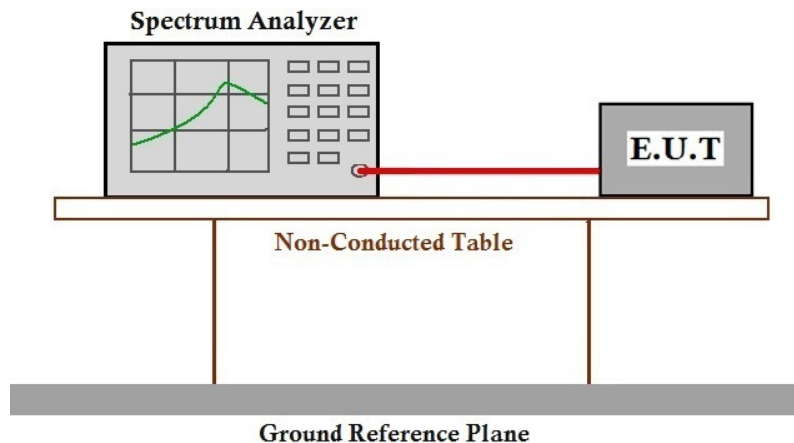
Operating Environment:

Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	FHSS Mode_Keep the EUT in FHSS mode with SF7.
Final test	17	FHSS Mode_Keep the EUT in FHSS mode with SF9.
Final test	18	FHSS Mode_Keep the EUT in FHSS mode with SF10.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 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: N/A

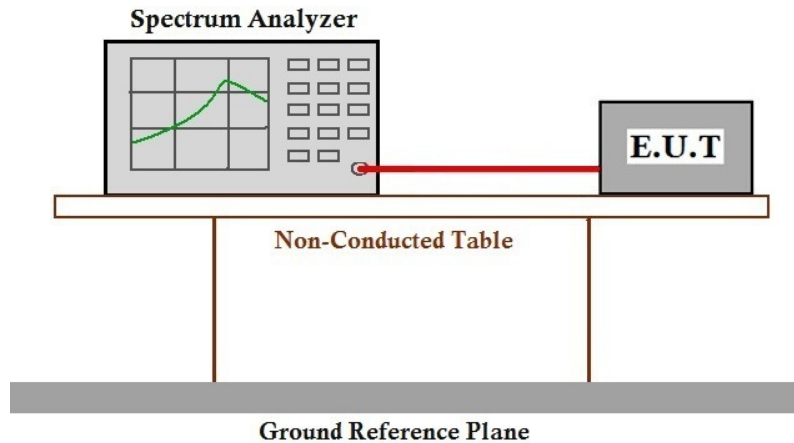
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	FHSS Mode_Keep the EUT in FHSS mode with SF7.
Final test	17	FHSS Mode_Keep the EUT in FHSS mode with SF9.
Final test	18	FHSS Mode_Keep the EUT in FHSS mode with SF10.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Dwell Time

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

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

7.6.1 E.U.T. Operation

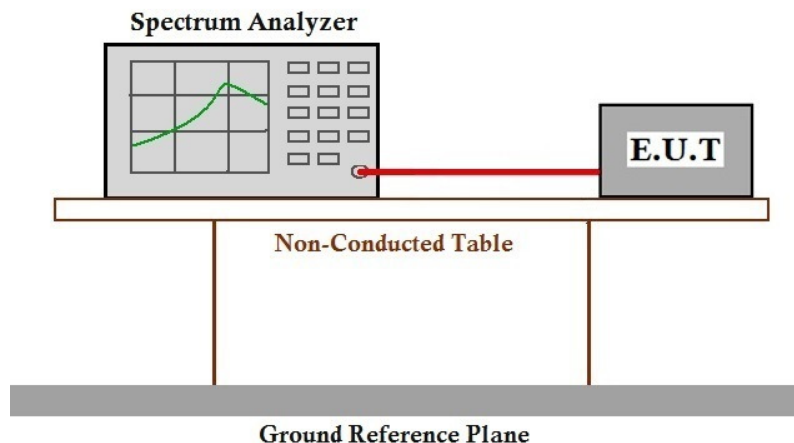
Operating Environment:

Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	FHSS Mode_Keep the EUT in FHSS mode with SF7.
Final test	17	FHSS Mode_Keep the EUT in FHSS mode with SF9.
Final test	18	FHSS Mode_Keep the EUT in FHSS mode with SF10.

7.6.3 Test Setup Diagram





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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

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7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.7.1 E.U.T. Operation

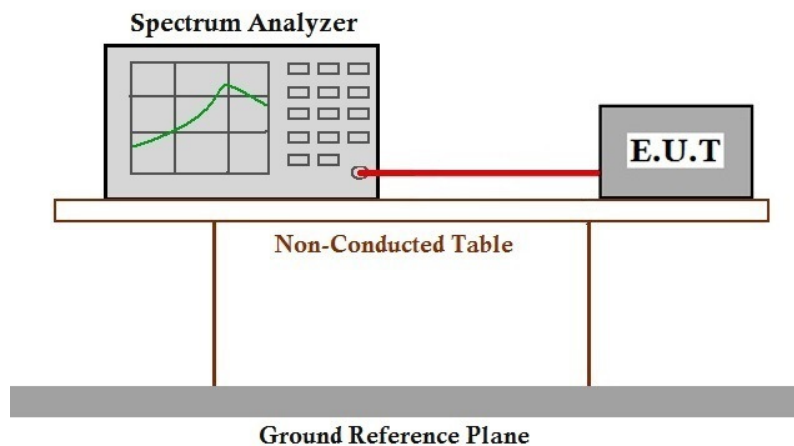
Operating Environment:

Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

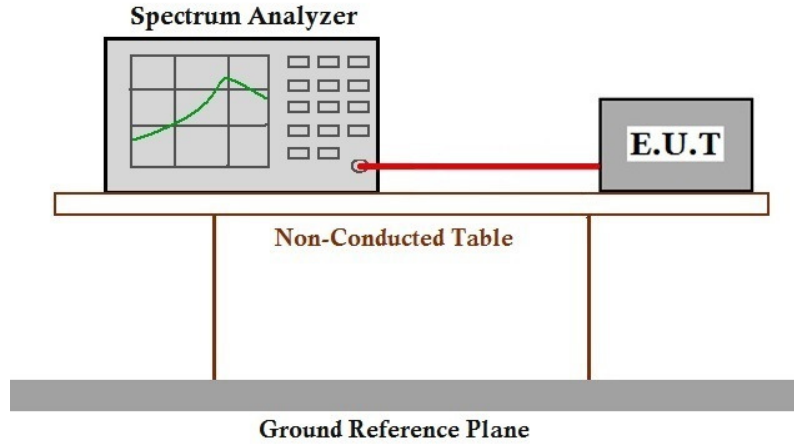
7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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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 11.13.3.2

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: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

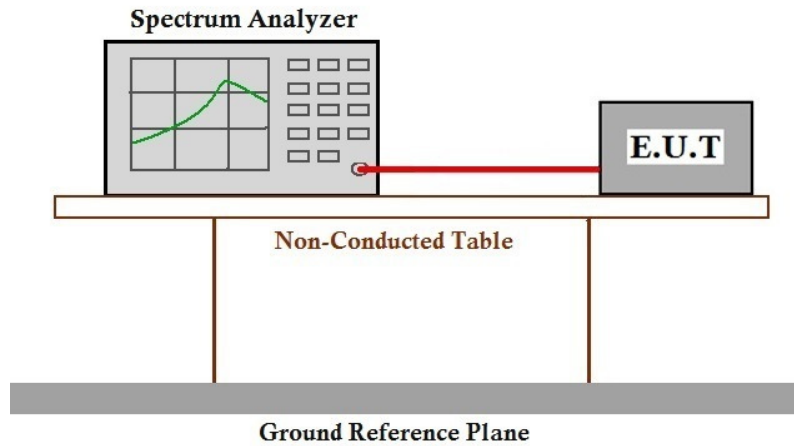
Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.



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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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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 11.11

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: 24.5 °C Humidity: 42.1 % RH Atmospheric Pressure: 1015 mbar

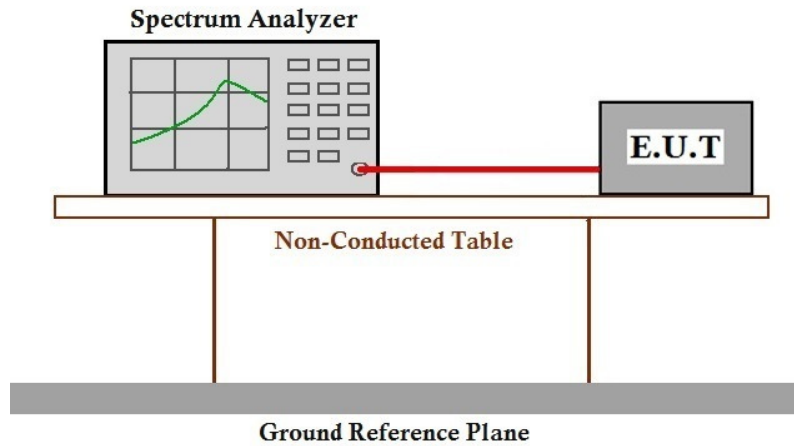
7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.



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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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7.11 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.

7.11.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1015 mbar

7.11.2 Test Mode Description

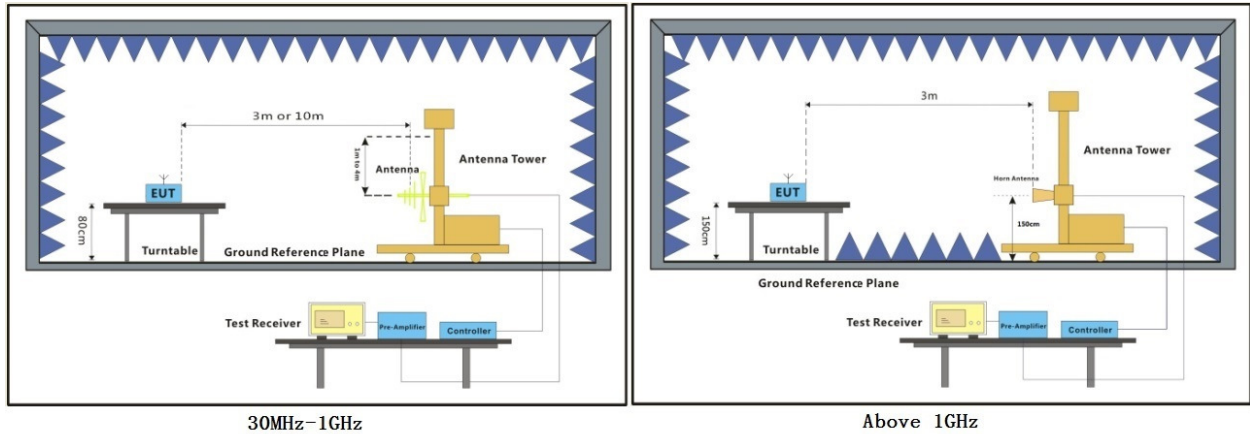
Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Pre-scan	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Pre-scan	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Pre-scan	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Pre-scan	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Pre-scan	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.



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Pre-scan	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Pre-scan	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Pre-scan	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Pre-scan	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Pre-scan	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Pre-scan	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.

7.11.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



7.11.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

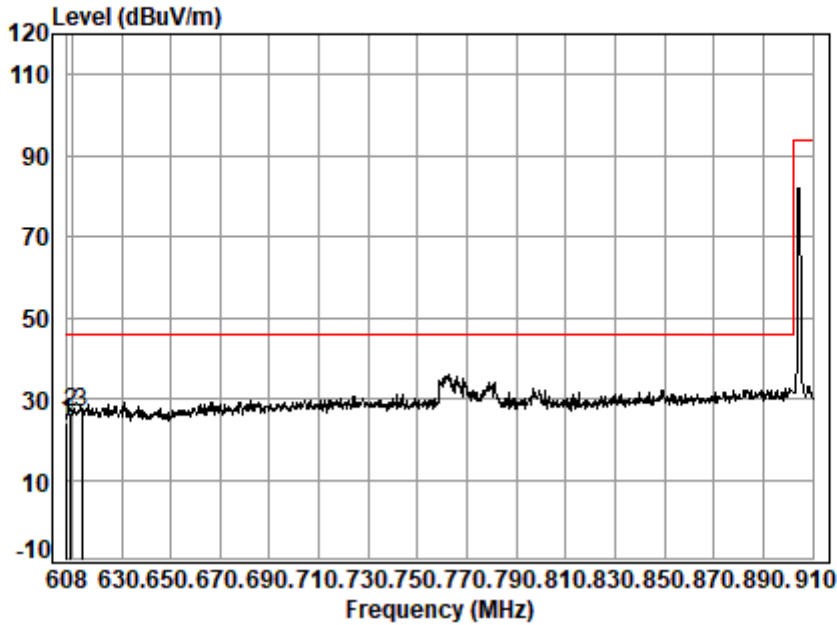
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.



Integral Antenna:

Test Mode: 00; Polarity: Horizontal



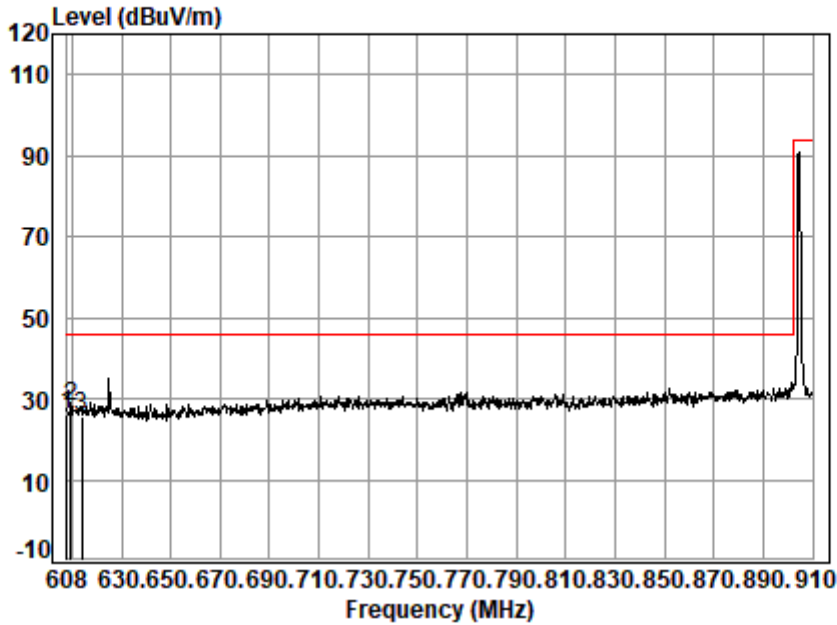
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	24.24	46.00	-21.76
2	609.51	26.81	46.00	-19.19
3	614.04	26.61	46.00	-19.39



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Test Mode: 00; Polarity: Vertical



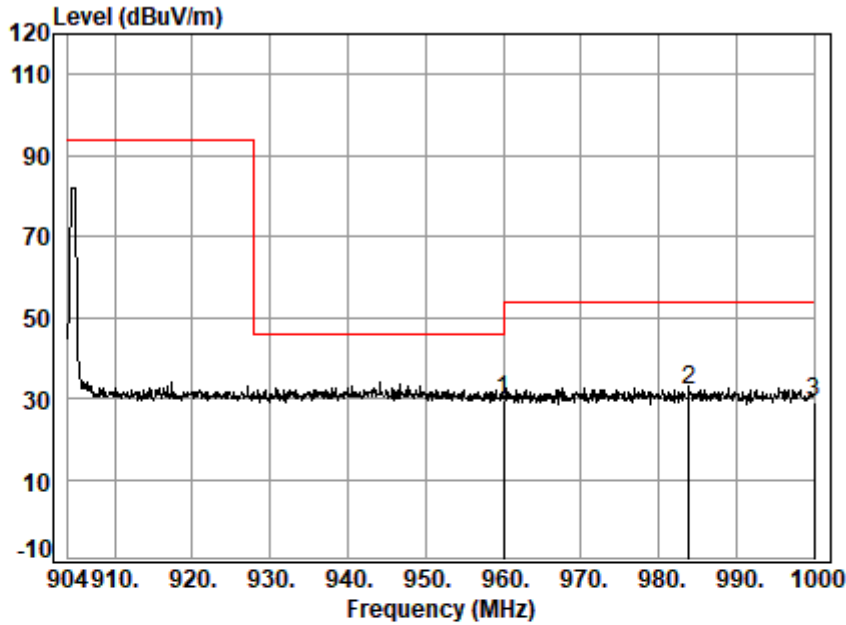
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBUV	Limit dBUV	Over Limit dB
1	608.00	26.33	46.00	-19.67
2	609.51	27.84	46.00	-18.16
3	614.04	25.78	46.00	-20.22



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Test Mode: 00; Polarity: Horizontal



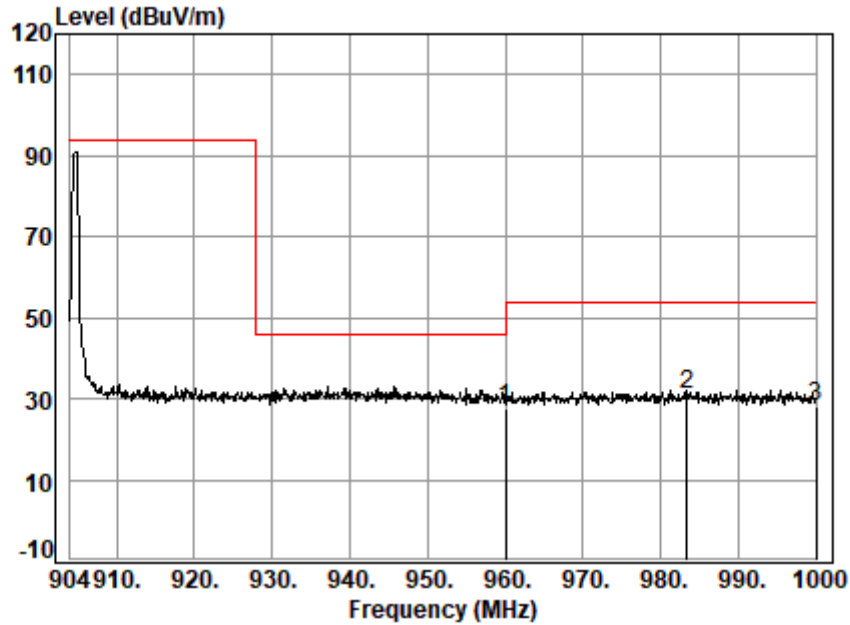
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	29.60	54.00	-24.40
2	983.97	31.90	54.00	-22.10
3	1000.00	29.05	54.00	-24.95



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Test Mode: 00; Polarity: Vertical



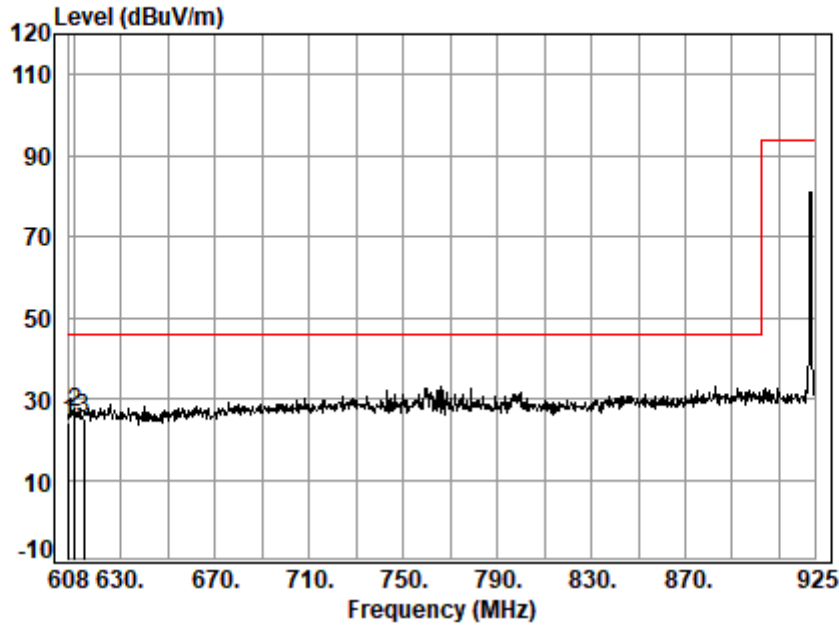
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	27.69	54.00	-26.31
2	983.39	31.21	54.00	-22.79
3	1000.00	28.30	54.00	-25.70



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Test Mode: 01; Polarity: Horizontal



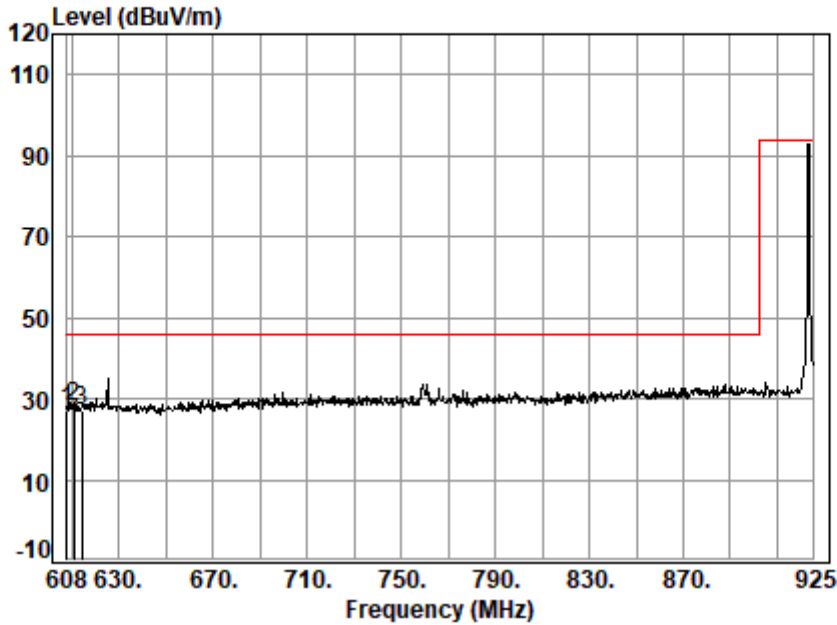
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 01

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	24.15	46.00	-21.85
2	610.54	26.59	46.00	-19.41
3	614.02	25.07	46.00	-20.93



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Test Mode: 01; Polarity: Vertical



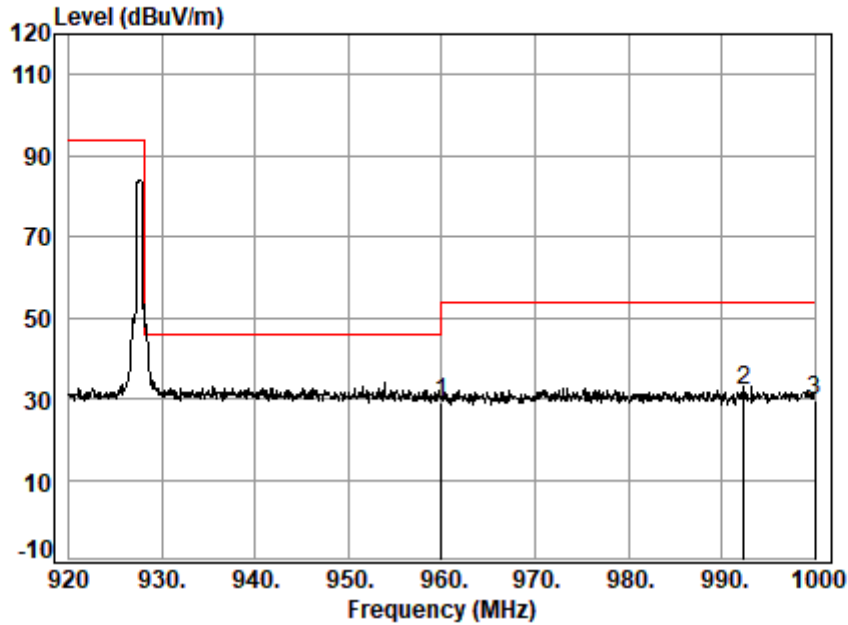
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 01

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	26.93	46.00	-19.07
2	610.85	28.28	46.00	-17.72
3	614.02	27.15	46.00	-18.85



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Test Mode: 03; Polarity: Horizontal



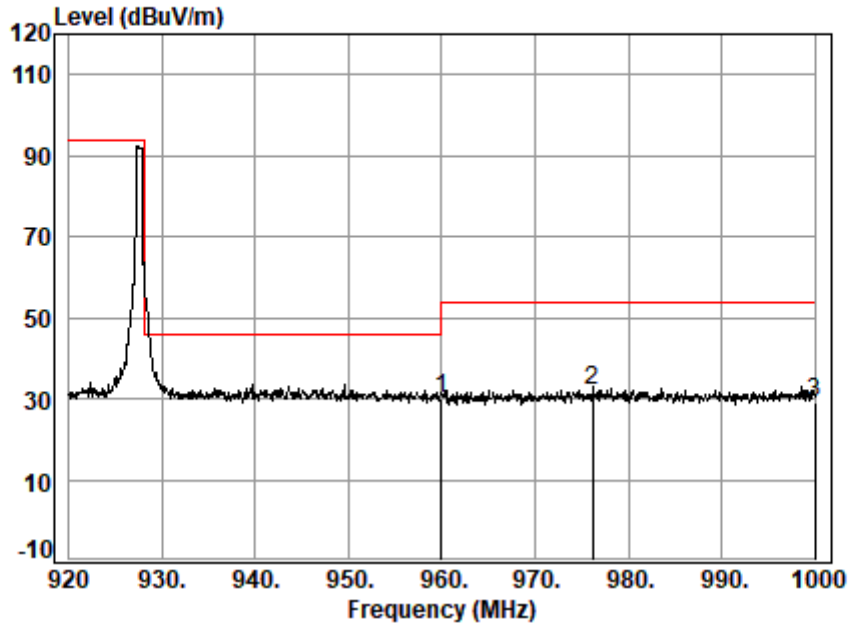
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 03

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.00	28.99	46.00	-17.01
2	992.40	32.17	54.00	-21.83
3	1000.00	29.66	54.00	-24.34



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Test Mode: 03; Polarity: Vertical



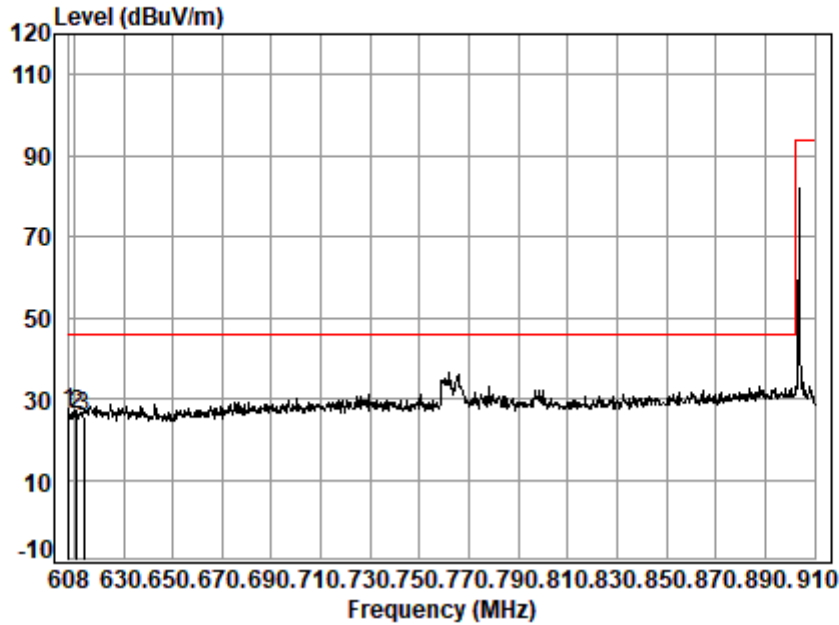
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 03

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.00	29.83	46.00	-16.17
2	976.16	32.09	54.00	-21.91
3	1000.00	28.92	54.00	-25.08



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Test Mode: 07; Polarity: Horizontal



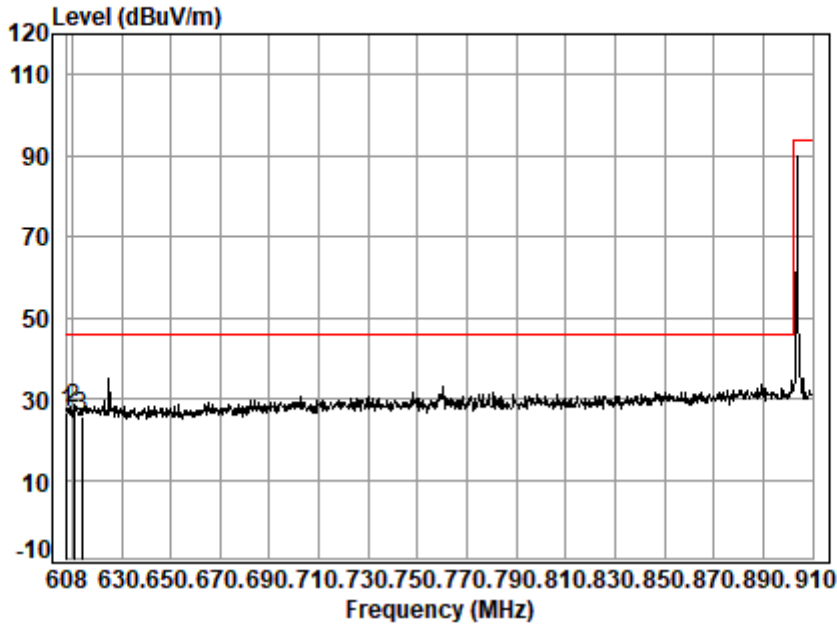
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 07

Marker	Freq. MHz	Level dBUV	Limit dBUV	Over Limit dB
1	608.00	26.57	46.00	-19.43
2	611.02	26.07	46.00	-19.93
3	614.04	25.58	46.00	-20.42



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Test Mode: 07; Polarity: Vertical



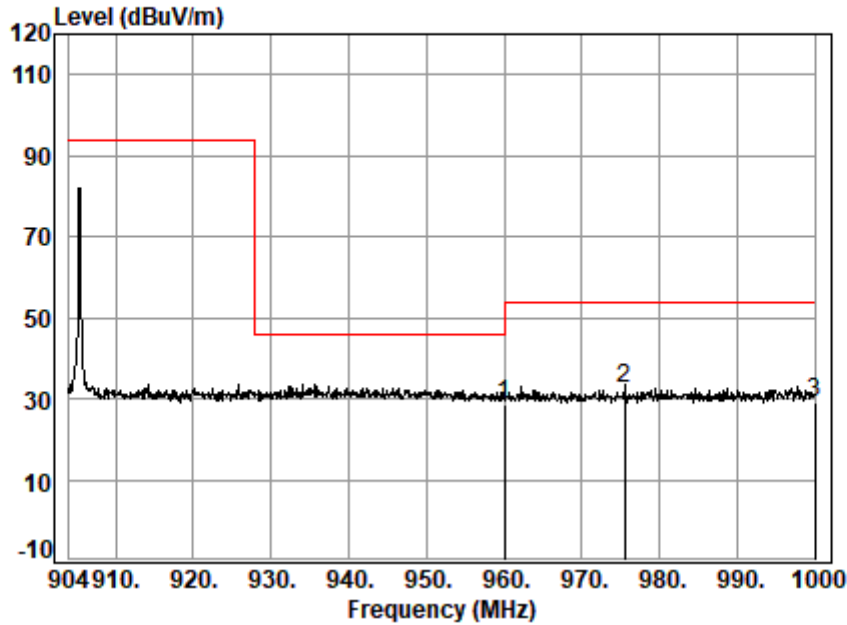
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 07

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	26.38	46.00	-19.62
2	610.72	27.34	46.00	-18.66
3	614.04	25.74	46.00	-20.26



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Test Mode: 09; Polarity: Horizontal



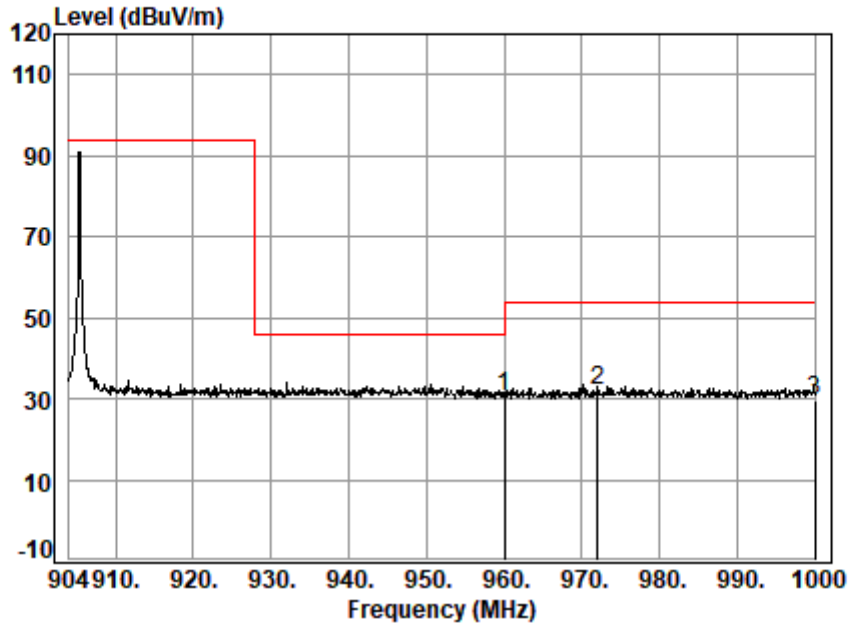
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 09

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	28.49	54.00	-25.51
2	975.52	32.28	54.00	-21.72
3	1000.00	29.03	54.00	-24.97



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Test Mode: 09; Polarity: Vertical



Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 09

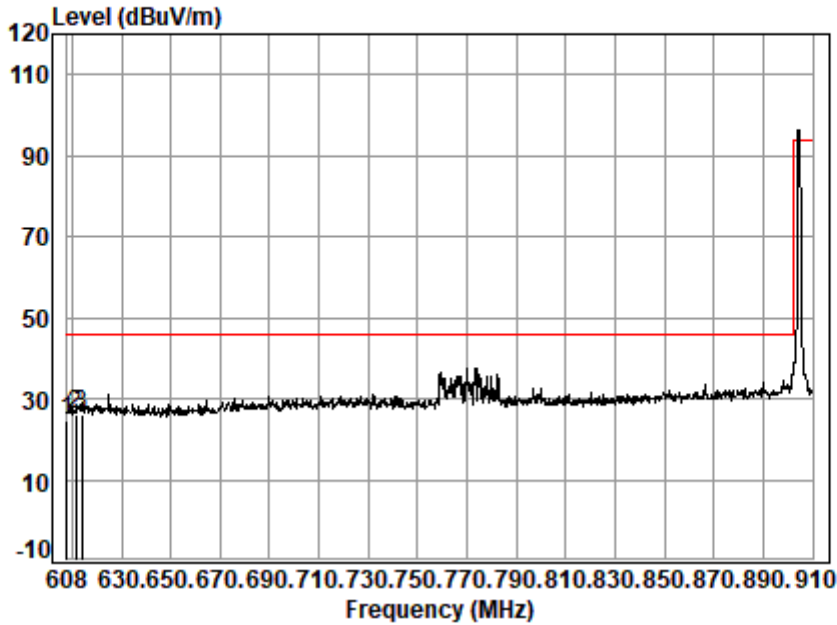
Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	30.30	54.00	-23.70
2	972.06	32.04	54.00	-21.96
3	1000.00	29.51	54.00	-24.49



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Fiberglass Antenna 1

Test Mode: 00; Polarity: Horizontal



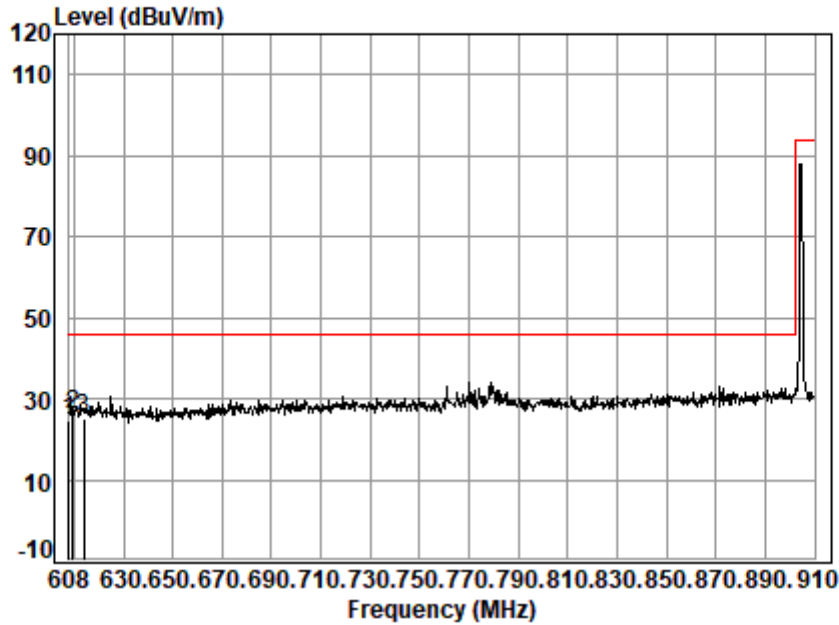
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	24.53	46.00	-21.47
2	611.62	25.99	46.00	-20.01
3	614.04	25.84	46.00	-20.16



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Test Mode: 00; Polarity: Vertical



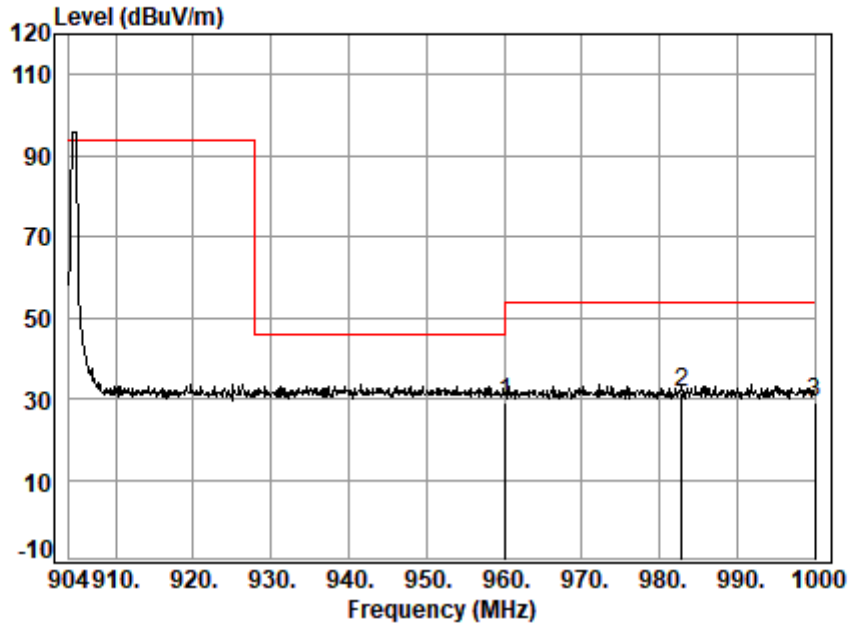
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	24.59	46.00	-21.41
2	609.51	25.91	46.00	-20.09
3	614.04	24.86	46.00	-21.14



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Test Mode: 00; Polarity: Horizontal



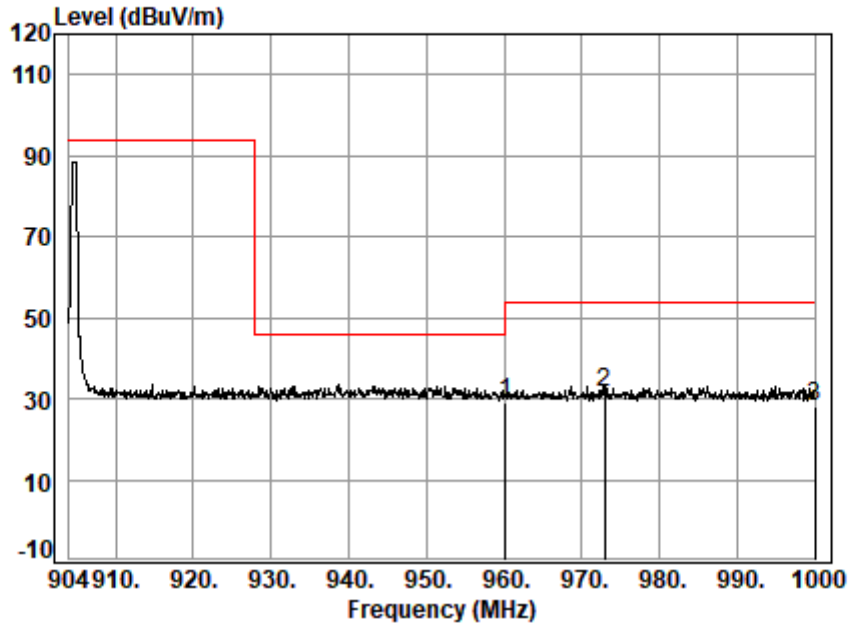
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.16	29.04	54.00	-24.96
2	982.91	31.59	54.00	-22.41
3	1000.00	29.28	54.00	-24.72



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Test Mode: 00; Polarity: Vertical



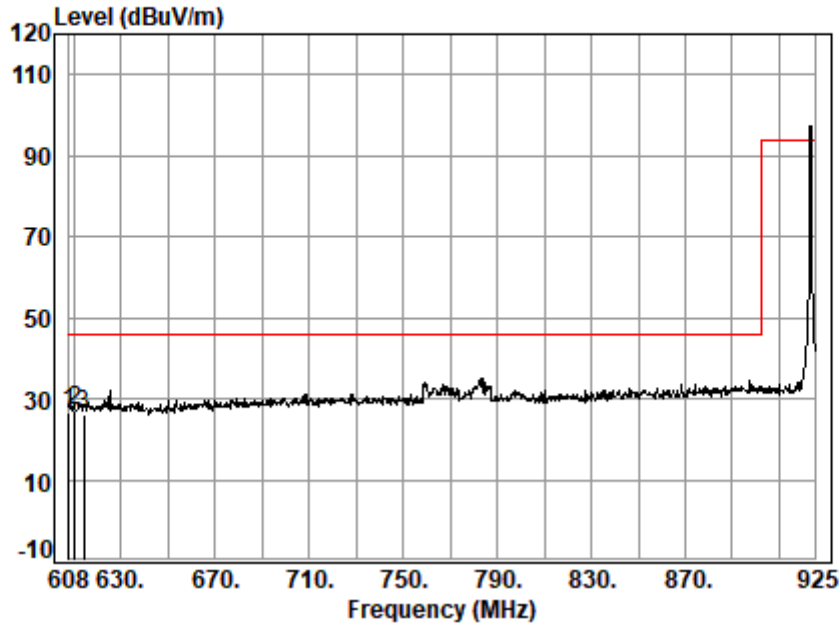
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 00

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.16	29.15	54.00	-24.85
2	972.93	31.34	54.00	-22.66
3	1000.00	28.27	54.00	-25.73



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Test Mode: 01; Polarity: Horizontal



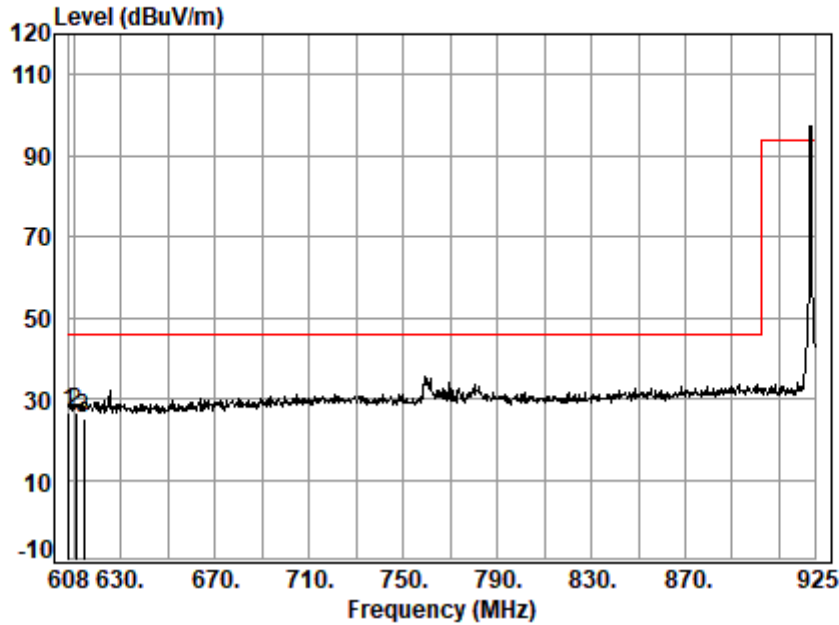
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 01

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	26.61	46.00	-19.39
2	610.22	26.91	46.00	-19.09
3	614.02	26.27	46.00	-19.73



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Test Mode: 01; Polarity: Vertical



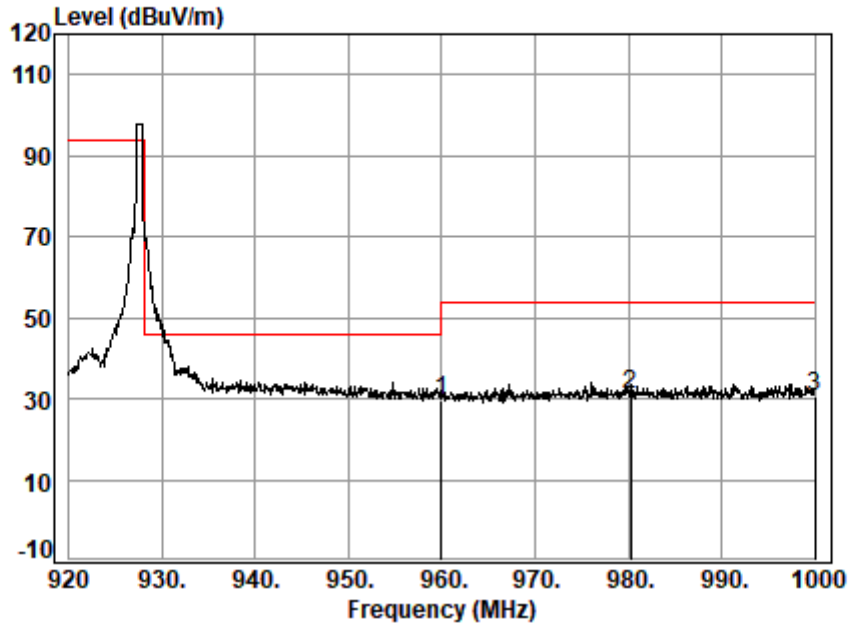
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 01

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	26.67	46.00	-19.33
2	610.85	26.47	46.00	-19.53
3	614.02	25.27	46.00	-20.73



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Test Mode: 03; Polarity: Horizontal



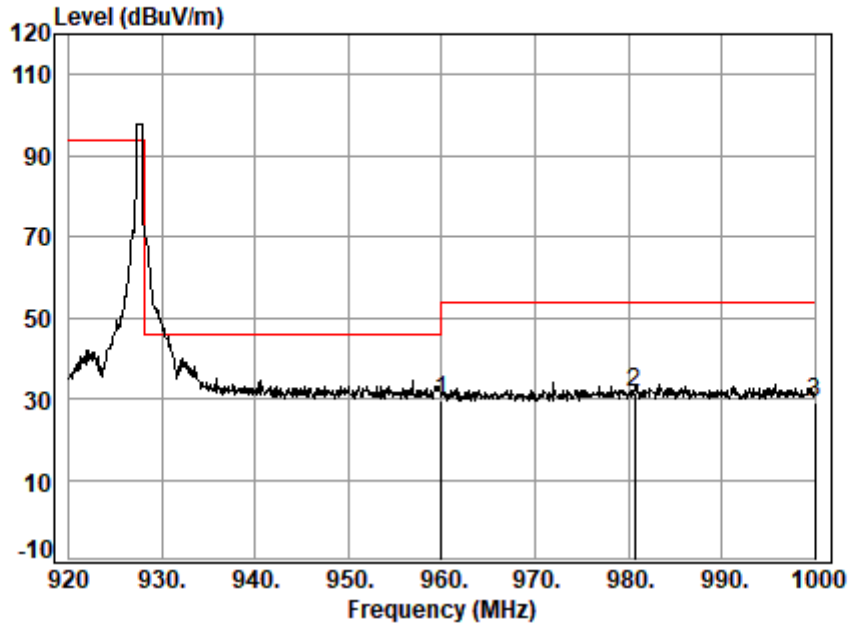
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 03

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.00	29.61	46.00	-16.39
2	980.24	31.26	54.00	-22.74
3	1000.00	30.31	54.00	-23.69



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Test Mode: 03; Polarity: Vertical



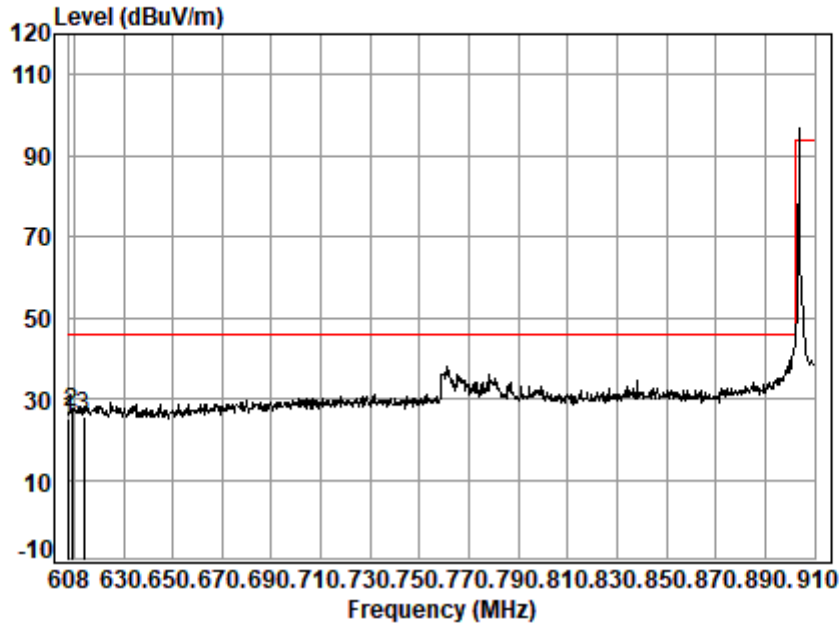
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 03

Marker	Freq. MHz	Level dBUV	Limit dBUV	Over Limit dB
1	960.00	29.47	46.00	-16.53
2	980.72	31.54	54.00	-22.46
3	1000.00	28.92	54.00	-25.08



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Test Mode: 07; Polarity: Horizontal



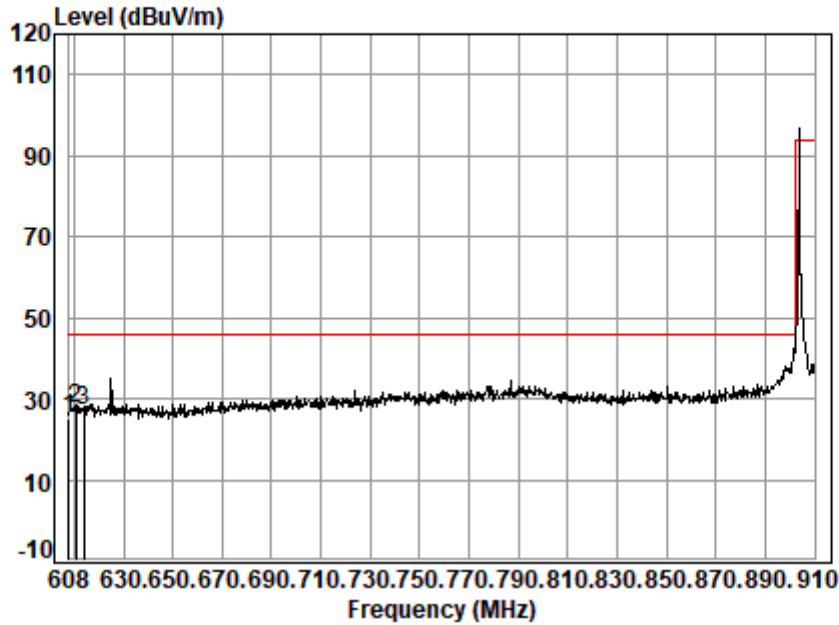
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 07

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	25.01	46.00	-20.99
2	609.21	26.76	46.00	-19.24
3	614.04	25.50	46.00	-20.50



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Test Mode: 07; Polarity: Vertical



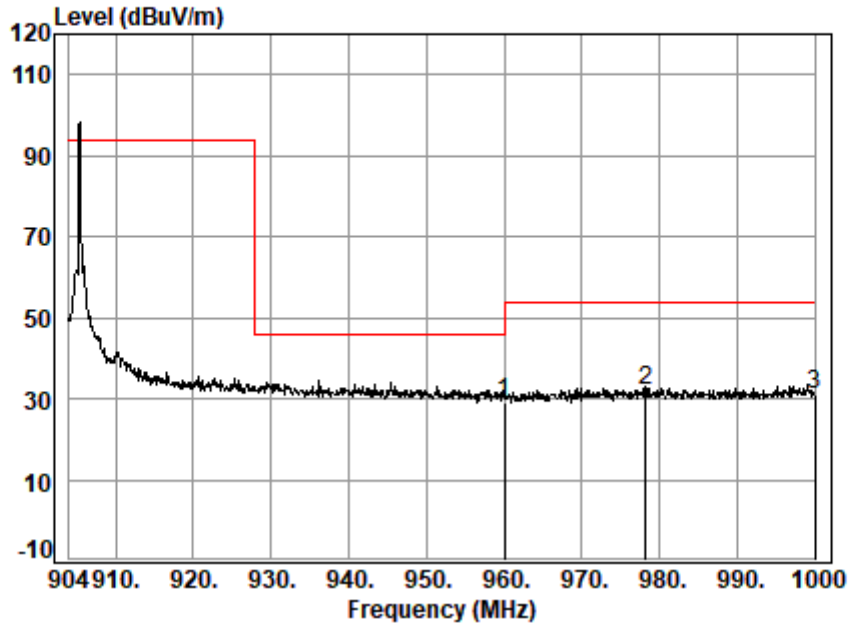
Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 07

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	608.00	25.15	46.00	-20.85
2	610.72	27.52	46.00	-18.48
3	614.04	26.93	46.00	-19.07



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Test Mode: 09; Polarity: Horizontal



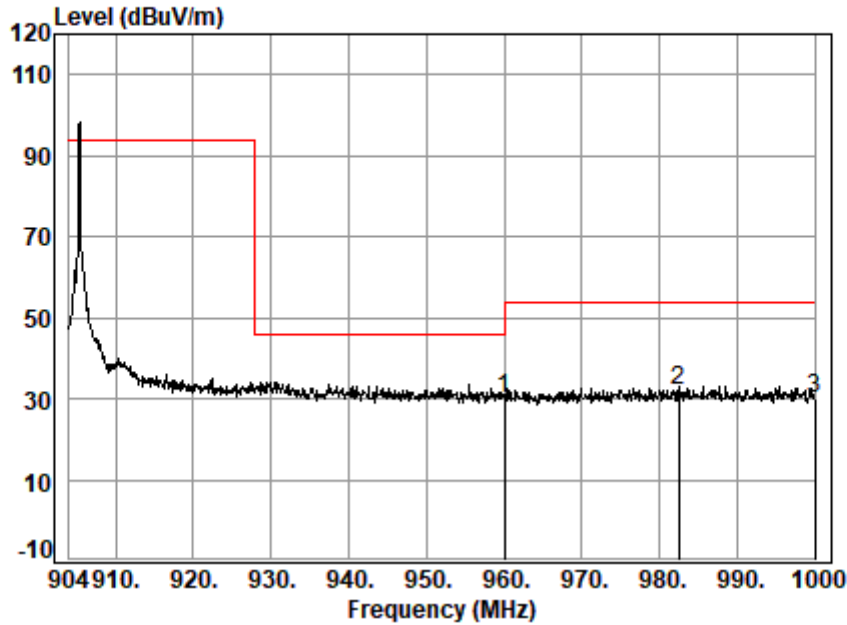
Test Site: 3M-chamber HORIZONTAL
 Job No.: 04131AT
 Test mode: 09

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	29.01	54.00	-24.99
2	978.21	32.11	54.00	-21.89
3	1000.00	30.96	54.00	-23.04



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Test Mode: 09; Polarity: Vertical



Test Site: 3M-chamber VERTICAL
 Job No.: 04131AT
 Test mode: 09

Marker	Freq. MHz	Level dBuV	Limit dBuV	Over Limit dB
1	960.06	29.91	54.00	-24.09
2	982.53	31.96	54.00	-22.04
3	1000.00	29.83	54.00	-24.17



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7.12 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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.6 % RH Atmospheric Pressure: 1015 mbar

7.12.2 Test Mode Description

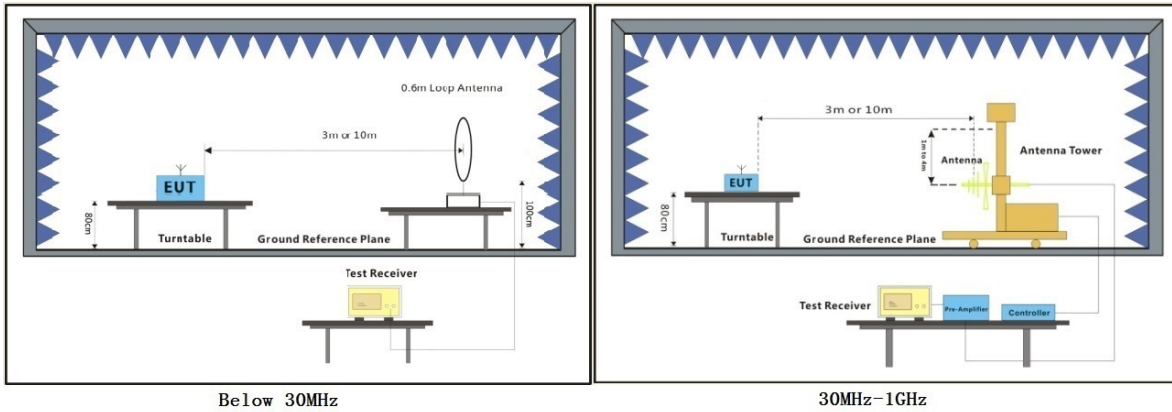
Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Pre-scan	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Pre-scan	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Pre-scan	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Pre-scan	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Pre-scan	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Pre-scan	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Pre-scan	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Pre-scan	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Pre-scan	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Pre-scan	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Pre-scan	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Pre-scan	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Pre-scan	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Pre-scan	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.



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Pre-scan	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.
Pre-scan	16	FHSS Mode_Keep the EUT in FHSS mode with SF7.
Pre-scan	17	FHSS Mode_Keep the EUT in FHSS mode with SF9.
Pre-scan	18	FHSS Mode_Keep the EUT in FHSS mode with SF10.

7.12.3 Test Setup Diagram



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7.12.4 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.

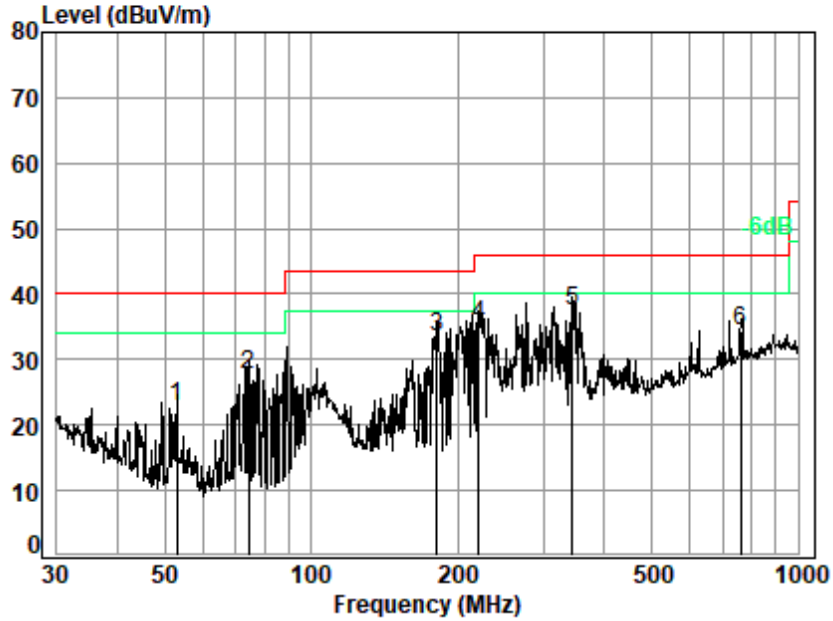
Remark:

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.
- k) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.



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Test Mode: 00; Polarity: Horizontal



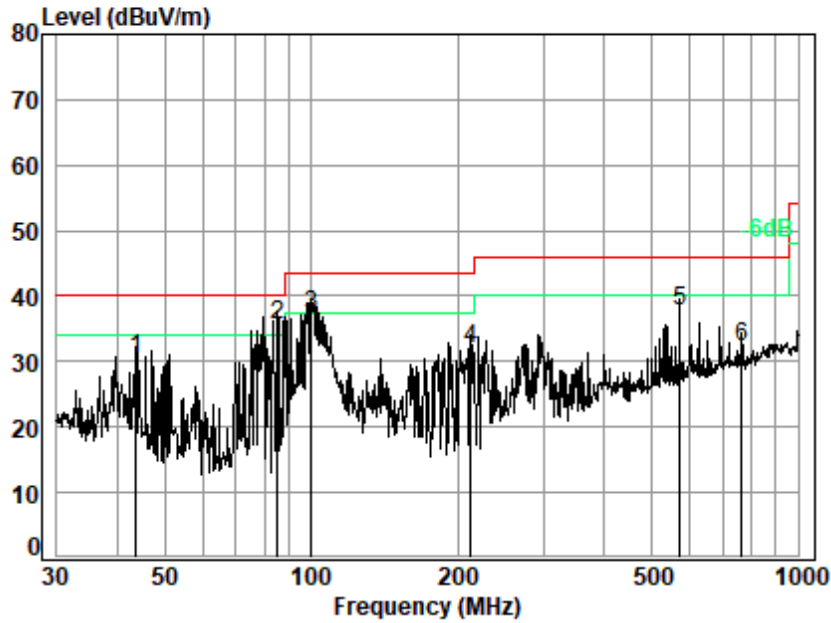
Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 04131AT
 Test Mode: 00

	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	52.95	12.15	0.81	27.16	36.91	22.71	40.00	-17.29 QP
2	74.40	10.30	0.97	27.09	43.65	27.83	40.00	-12.17 QP
3	181.28	14.66	1.59	26.67	44.00	33.58	43.50	-9.92 QP
4	220.62	15.87	1.78	26.52	44.14	35.27	46.00	-10.73 QP
5 q	343.18	19.92	2.28	26.33	41.55	37.42	46.00	-8.58 QP
6	763.38	26.64	3.58	26.45	30.47	34.24	46.00	-11.76 QP



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Test Mode: 00; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 04131AT
 Test Mode: 00

	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	43.66	14.01	0.71	27.19	42.84	30.37	40.00	-9.63 QP
2 q	85.30	11.31	1.05	27.05	50.41	35.72	40.00	-4.28 QP
3	100.23	13.03	1.14	27.00	50.03	37.20	43.50	-6.30 QP
4	213.02	15.43	1.75	26.55	41.33	31.96	43.50	-11.54 QP
5	570.61	23.86	3.03	27.01	37.73	37.61	46.00	-8.39 QP
6	766.06	26.65	3.58	26.44	28.52	32.31	46.00	-13.69 QP



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7.13 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

Limit:

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 69.8 % RH Atmospheric Pressure: 1015 mbar

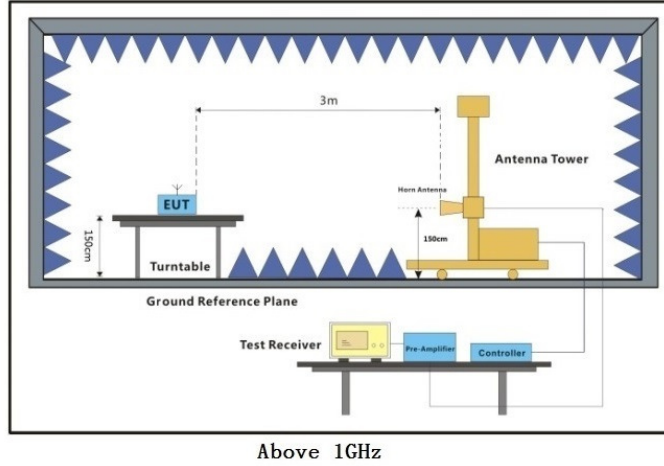
7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.
Final test	01	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.
Final test	02	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.
Final test	03	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.
Final test	04	DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.
Final test	05	DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.
Final test	06	DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.
Final test	07	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.
Final test	08	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.
Final test	09	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.
Final test	10	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.
Final test	11	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.
Final test	12	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.
Final test	13	Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10.
Final test	14	Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10.
Final test	15	Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10.



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7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

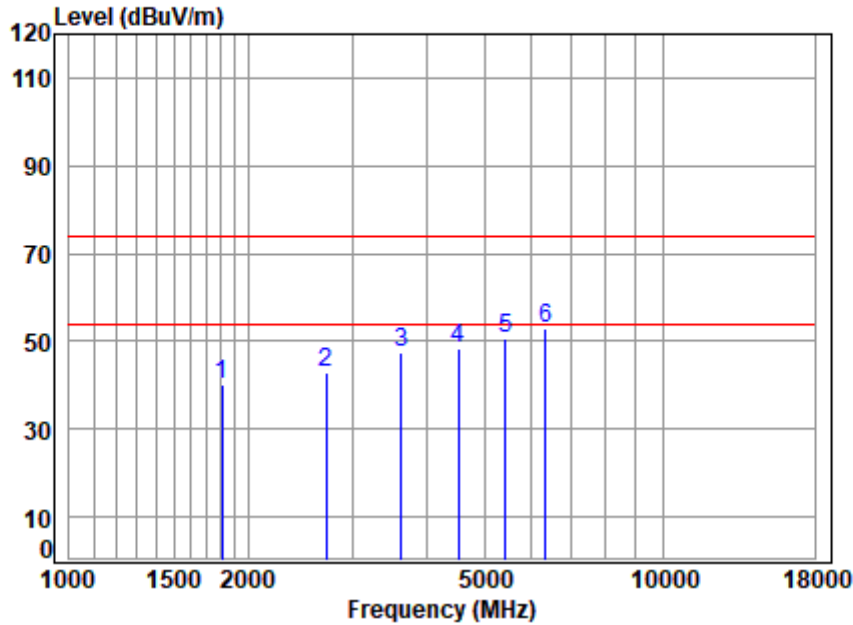
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.
- k) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.



Test Mode: 00; Polarity: Horizontal



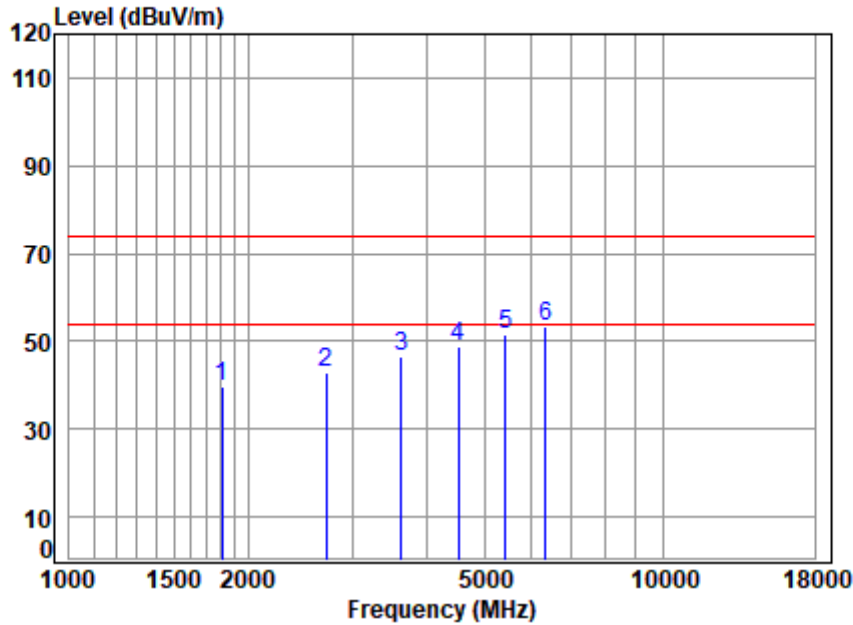
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 904.6M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1809.200	3.61	27.06	36.17	45.65	40.15	74.00	-33.85 Peak
2	2713.800	4.56	29.50	35.53	44.46	42.99	74.00	-31.01 Peak
3	3618.400	5.77	31.97	34.72	44.24	47.26	74.00	-26.74 Peak
4	4523.000	6.79	33.45	34.69	43.01	48.56	74.00	-25.44 Peak
5	5427.600	7.64	34.56	35.01	43.61	50.80	74.00	-23.20 Peak
6	6332.200	8.22	35.20	35.34	44.86	52.94	74.00	-21.06 Peak



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Test Mode: 00; Polarity: Vertical



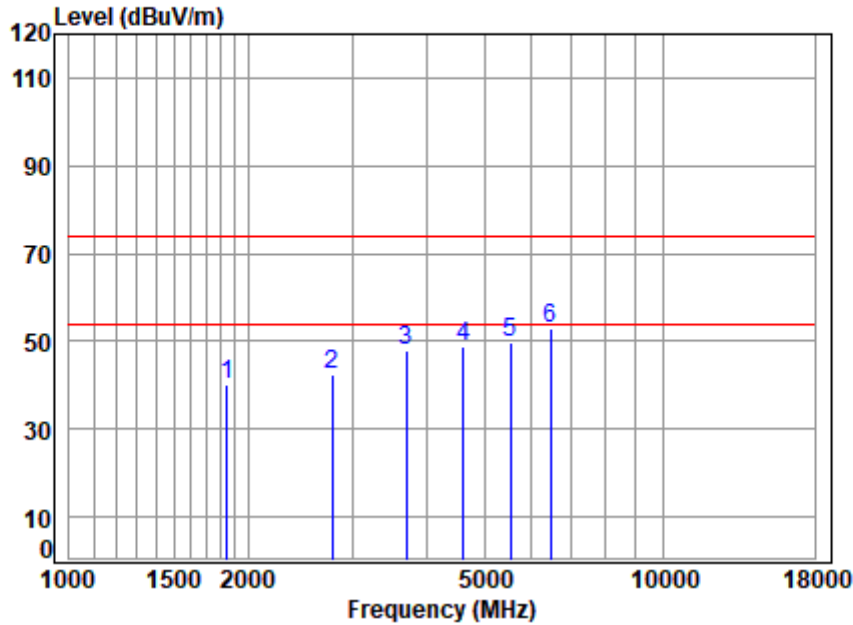
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 904.6M RSE TX

	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	1809.200	3.61	27.06	36.17	44.98	39.48	74.00	-34.52	Peak
2	2713.800	4.56	29.50	35.53	44.37	42.90	74.00	-31.10	Peak
3	3618.400	5.77	31.97	34.72	43.68	46.70	74.00	-27.30	Peak
4	4523.000	6.79	33.45	34.69	43.23	48.78	74.00	-25.22	Peak
5	5427.600	7.64	34.56	35.01	44.33	51.52	74.00	-22.48	Peak
6	6332.200	8.22	35.20	35.34	45.14	53.22	74.00	-20.78	Peak



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Test Mode: 01; Polarity: Horizontal



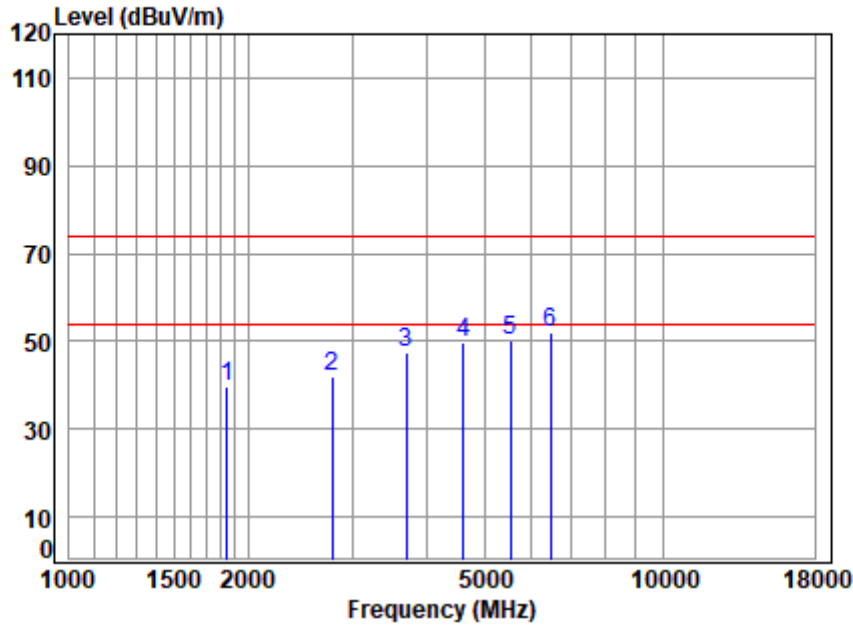
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 923.3M RSE TX

	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	3.65	27.28	36.09	45.36	40.20	74.00	-33.80	Peak
2	2769.900	4.61	29.50	35.52	43.84	42.43	74.00	-31.57	Peak
3	3693.200	5.87	32.27	34.64	44.63	48.13	74.00	-25.87	Peak
4	4616.500	6.88	33.50	34.75	43.09	48.72	74.00	-25.28	Peak
5	5539.800	7.74	34.60	35.01	42.52	49.85	74.00	-24.15	Peak
6	6463.100	8.24	35.43	35.46	44.89	53.10	74.00	-20.90	Peak



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Test Mode: 01; Polarity: Vertical



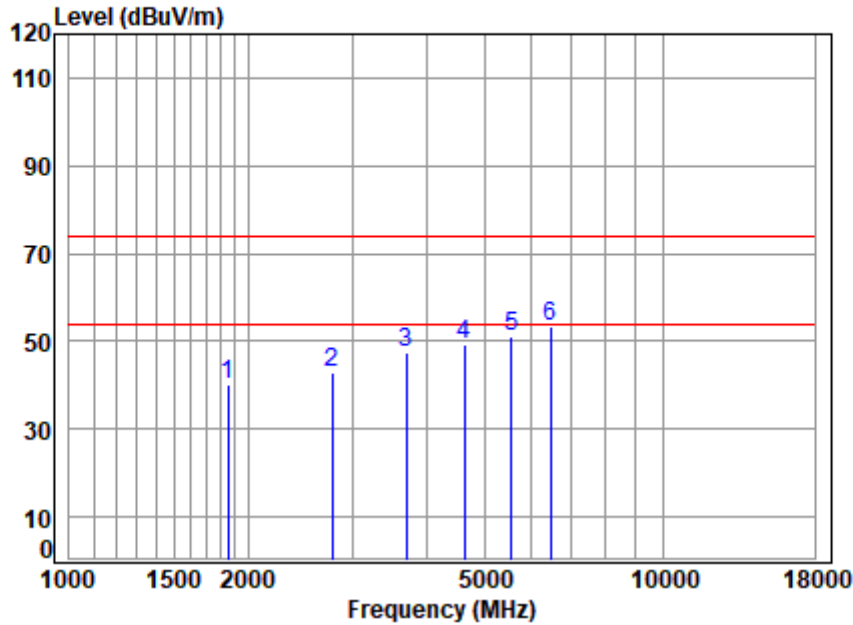
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 923.3M RSE TX

	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	3.65	27.28	36.09	44.94	39.78	74.00	-34.22	Peak
2	2769.900	4.61	29.50	35.52	43.42	42.01	74.00	-31.99	Peak
3	3693.200	5.87	32.27	34.64	43.90	47.40	74.00	-26.60	Peak
4	4616.500	6.88	33.50	34.75	44.05	49.68	74.00	-24.32	Peak
5	5539.800	7.74	34.60	35.01	42.82	50.15	74.00	-23.85	Peak
6	6463.100	8.24	35.43	35.46	43.87	52.08	74.00	-21.92	Peak



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Test Mode: 02; Polarity: Horizontal



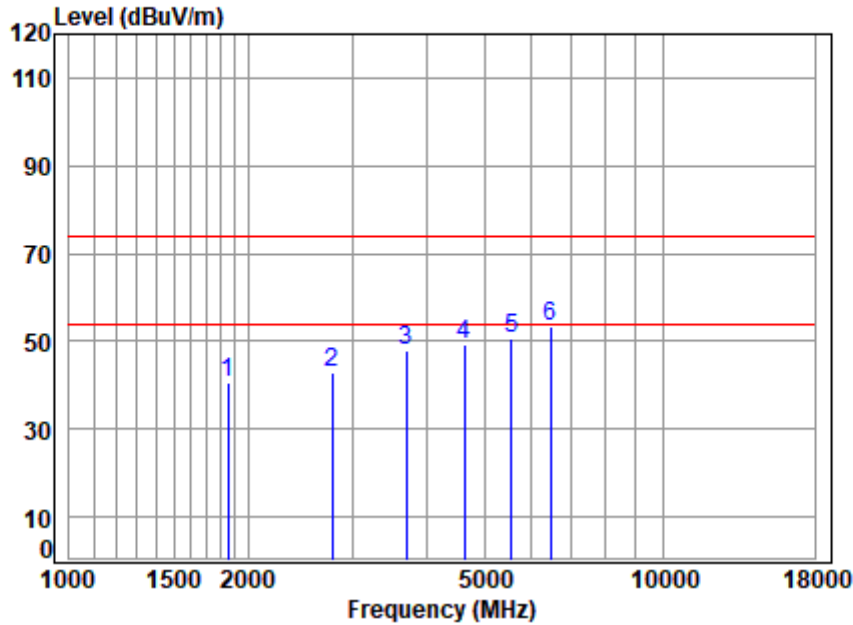
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 925.1M RSE TX

	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	1850.200	3.66	27.30	36.08	45.35	40.23	74.00	-33.77	Peak
2	2775.300	4.62	29.50	35.52	44.50	43.10	74.00	-30.90	Peak
3	3700.400	5.88	32.30	34.63	43.81	47.36	74.00	-26.64	Peak
4	4625.500	6.89	33.50	34.75	43.58	49.22	74.00	-24.78	Peak
5	5550.600	7.75	34.60	35.01	43.87	51.21	74.00	-22.79	Peak
6	6475.700	8.24	35.45	35.47	45.36	53.58	74.00	-20.42	Peak



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Test Mode: 02; Polarity: Vertical



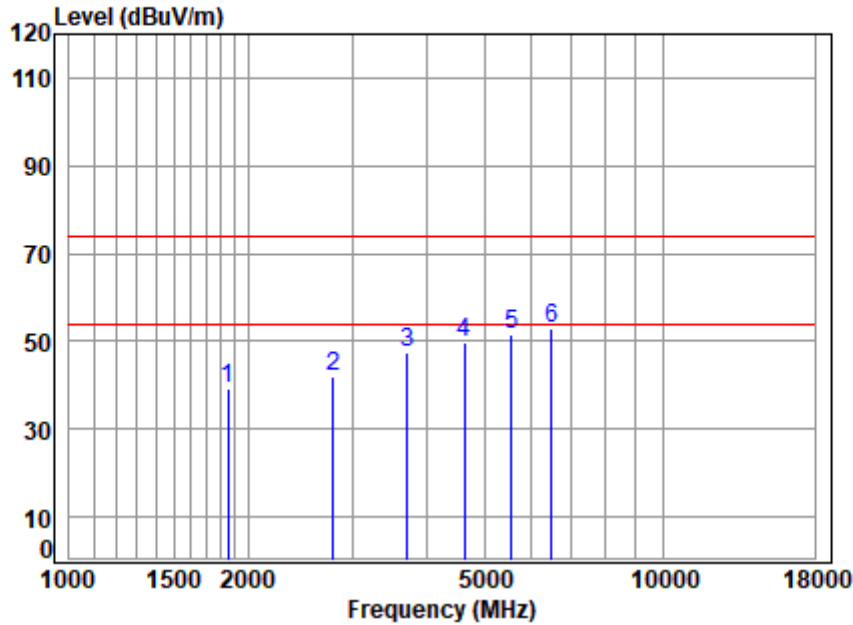
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 925.1M RSE TX

	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	1850.200	3.66	27.30	36.08	45.65	40.53	74.00	-33.47	Peak
2	2775.300	4.62	29.50	35.52	44.43	43.03	74.00	-30.97	Peak
3	3700.400	5.88	32.30	34.63	44.55	48.10	74.00	-25.90	Peak
4	4625.500	6.89	33.50	34.75	43.43	49.07	74.00	-24.93	Peak
5	5550.600	7.75	34.60	35.01	43.13	50.47	74.00	-23.53	Peak
6	6475.700	8.24	35.45	35.47	45.26	53.48	74.00	-20.52	Peak



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Test Mode: 03; Polarity: Horizontal



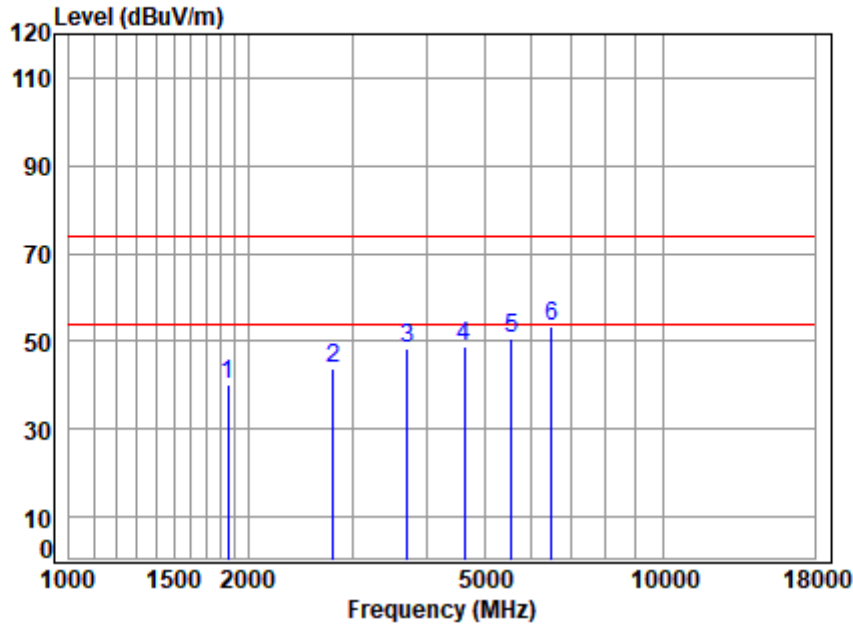
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 927.5M RSE TX

	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	1855.000	3.66	27.31	36.07	44.28	39.18	74.00	-34.82	Peak
2	2782.500	4.62	29.50	35.51	43.56	42.17	74.00	-31.83	Peak
3	3710.000	5.90	32.34	34.62	43.98	47.60	74.00	-26.40	Peak
4	4637.500	6.90	33.50	34.76	44.14	49.78	74.00	-24.22	Peak
5	5565.000	7.77	34.57	35.02	44.07	51.39	74.00	-22.61	Peak
6	6492.500	8.24	35.49	35.49	44.65	52.89	74.00	-21.11	Peak



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Test Mode: 03; Polarity: Vertical



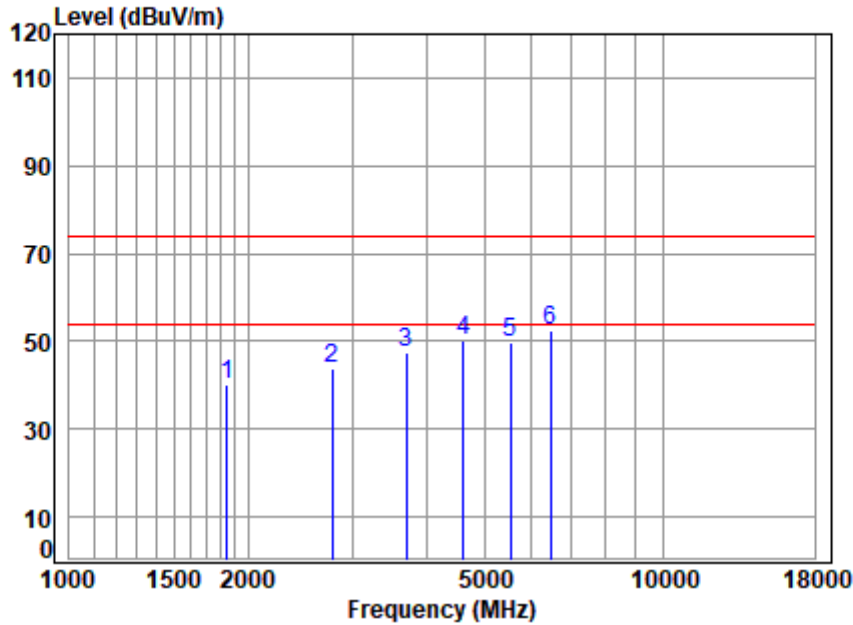
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 927.5M RSE TX

	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	1855.000	3.66	27.31	36.07	45.36	40.26	74.00	-33.74	Peak
2	2782.500	4.62	29.50	35.51	45.08	43.69	74.00	-30.31	Peak
3	3710.000	5.90	32.34	34.62	44.94	48.56	74.00	-25.44	Peak
4	4637.500	6.90	33.50	34.76	43.37	49.01	74.00	-24.99	Peak
5	5565.000	7.77	34.57	35.02	43.47	50.79	74.00	-23.21	Peak
6	6492.500	8.24	35.49	35.49	45.22	53.46	74.00	-20.54	Peak



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Test Mode: 04; Polarity: Horizontal



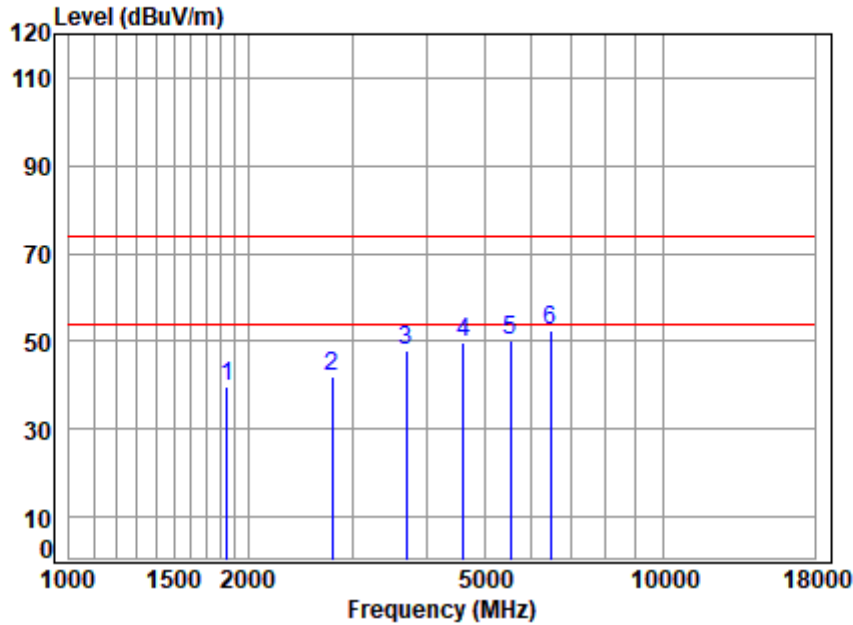
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 923.3M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1846.600	3.65	27.28	36.09	45.47	40.31	74.00	-33.69 Peak
2	2769.900	4.61	29.50	35.52	45.36	43.95	74.00	-30.05 Peak
3	3693.200	5.87	32.27	34.64	44.15	47.65	74.00	-26.35 Peak
4	4616.500	6.88	33.50	34.75	44.38	50.01	74.00	-23.99 Peak
5	5539.800	7.74	34.60	35.01	42.45	49.78	74.00	-24.22 Peak
6	6463.100	8.24	35.43	35.46	44.30	52.51	74.00	-21.49 Peak



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Test Mode: 04; Polarity: Vertical



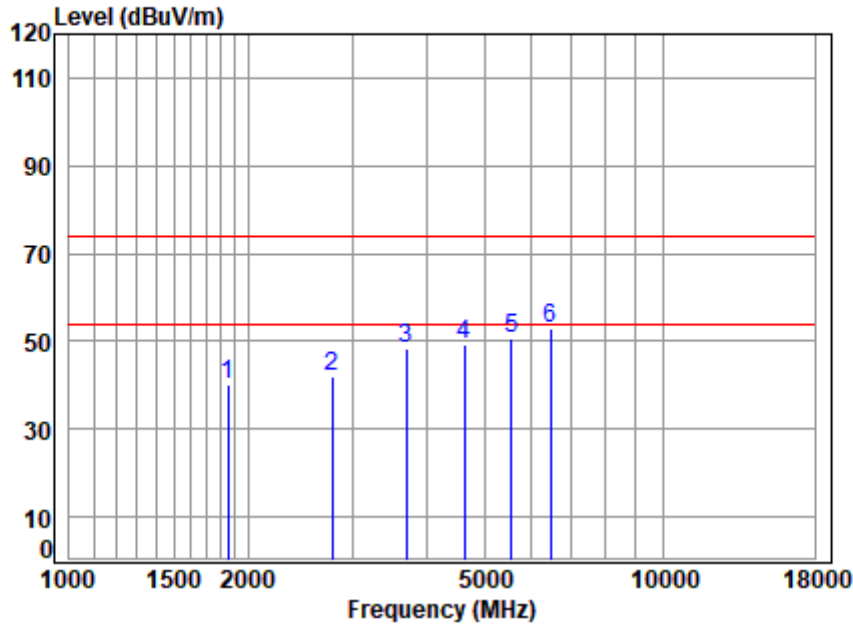
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 923.3M RSE TX

	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	3.65	27.28	36.09	44.96	39.80	74.00	-34.20	Peak
2	2769.900	4.61	29.50	35.52	43.44	42.03	74.00	-31.97	Peak
3	3693.200	5.87	32.27	34.64	44.34	47.84	74.00	-26.16	Peak
4	4616.500	6.88	33.50	34.75	43.93	49.56	74.00	-24.44	Peak
5	5539.800	7.74	34.60	35.01	43.07	50.40	74.00	-23.60	Peak
6	6463.100	8.24	35.43	35.46	44.12	52.33	74.00	-21.67	Peak



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Test Mode: 05; Polarity: Horizontal



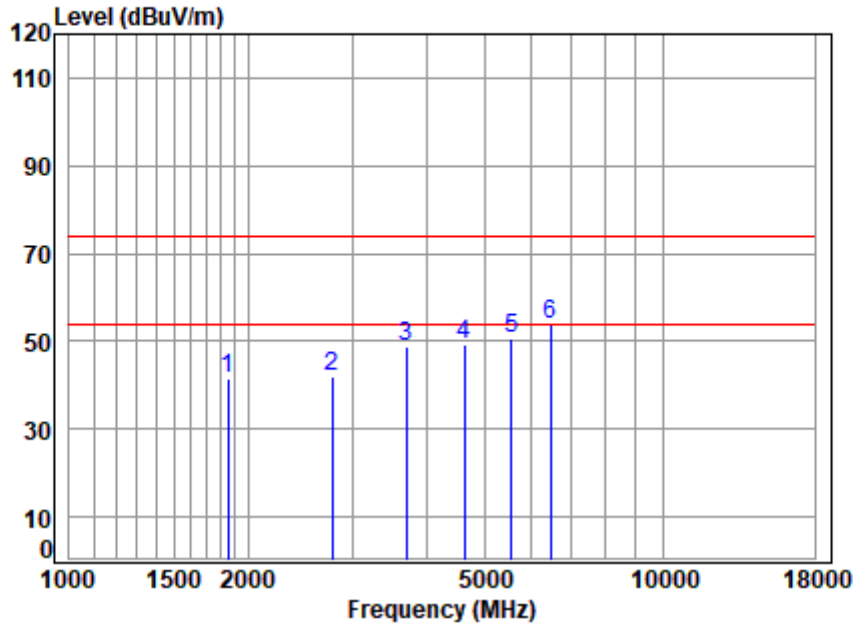
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 925.1M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1850.200	3.66	27.30	36.08	45.29	40.17	74.00	-33.83 Peak
2	2775.300	4.62	29.50	35.52	43.50	42.10	74.00	-31.90 Peak
3	3700.400	5.88	32.30	34.63	44.72	48.27	74.00	-25.73 Peak
4	4625.500	6.89	33.50	34.75	43.52	49.16	74.00	-24.84 Peak
5	5550.600	7.75	34.60	35.01	43.13	50.47	74.00	-23.53 Peak
6	6475.700	8.24	35.45	35.47	44.81	53.03	74.00	-20.97 Peak



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Test Mode: 05; Polarity: Vertical



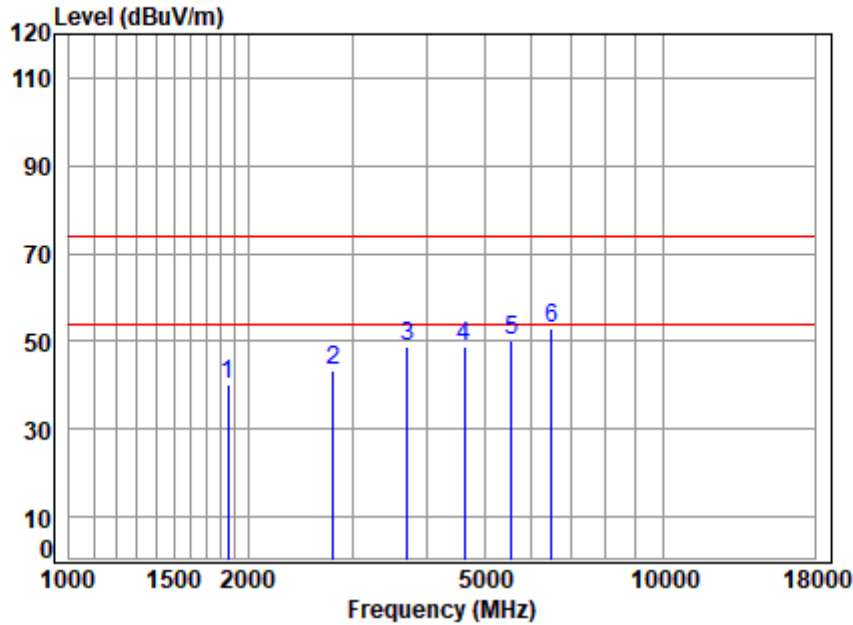
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 925.1M RSE TX

	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	1850.200	3.66	27.30	36.08	46.54	41.42	74.00	-32.58	Peak
2	2775.300	4.62	29.50	35.52	43.28	41.88	74.00	-32.12	Peak
3	3700.400	5.88	32.30	34.63	45.11	48.66	74.00	-25.34	Peak
4	4625.500	6.89	33.50	34.75	43.78	49.42	74.00	-24.58	Peak
5	5550.600	7.75	34.60	35.01	43.19	50.53	74.00	-23.47	Peak
6	6475.700	8.24	35.45	35.47	45.40	53.62	74.00	-20.38	Peak



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Test Mode: 06; Polarity: Horizontal



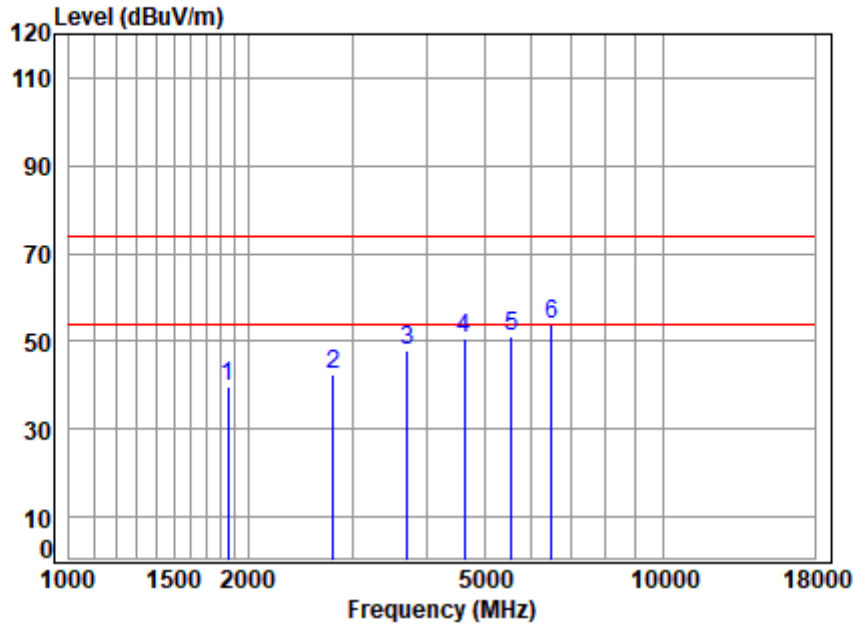
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 927.5M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1855.000	3.66	27.31	36.07	45.05	39.95	74.00	-34.05 Peak
2	2782.500	4.62	29.50	35.51	44.81	43.42	74.00	-30.58 Peak
3	3710.000	5.90	32.34	34.62	45.42	49.04	74.00	-24.96 Peak
4	4637.500	6.90	33.50	34.76	43.33	48.97	74.00	-25.03 Peak
5	5565.000	7.77	34.57	35.02	42.81	50.13	74.00	-23.87 Peak
6	6492.500	8.24	35.49	35.49	44.85	53.09	74.00	-20.91 Peak



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Test Mode: 06; Polarity: Vertical



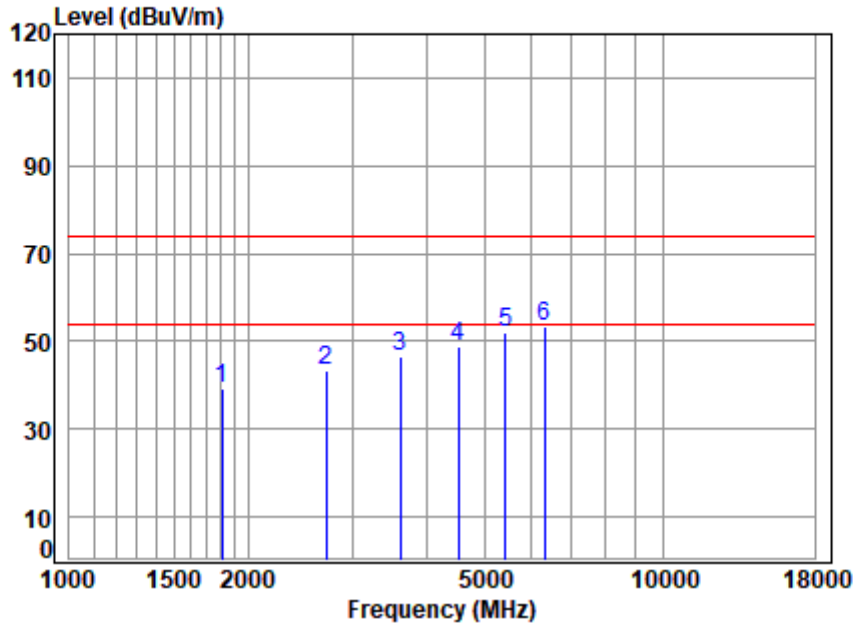
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 927.5M RSE TX

	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	1855.000	3.66	27.31	36.07	44.86	39.76	74.00	-34.24	Peak
2	2782.500	4.62	29.50	35.51	44.00	42.61	74.00	-31.39	Peak
3	3710.000	5.90	32.34	34.62	44.42	48.04	74.00	-25.96	Peak
4	4637.500	6.90	33.50	34.76	45.02	50.66	74.00	-23.34	Peak
5	5565.000	7.77	34.57	35.02	43.98	51.30	74.00	-22.70	Peak
6	6492.500	8.24	35.49	35.49	45.48	53.72	74.00	-20.28	Peak



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Test Mode: 07; Polarity: Horizontal



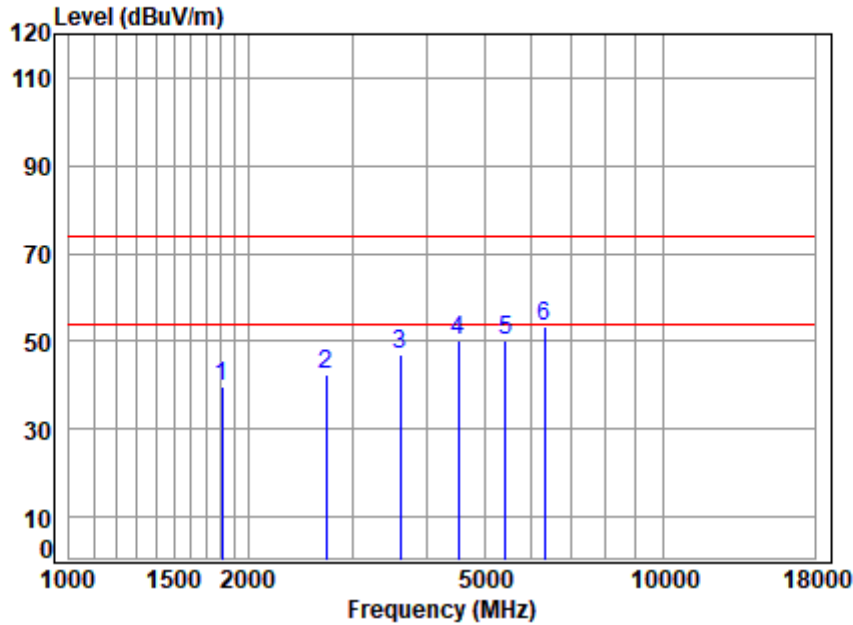
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1807.800	3.61	27.05	36.17	44.95	39.44	74.00	-34.56	Peak
2	2711.700	4.56	29.50	35.53	44.88	43.41	74.00	-30.59	Peak
3	3615.600	5.76	31.96	34.72	43.68	46.68	74.00	-27.32	Peak
4	4519.500	6.79	33.46	34.69	43.26	48.82	74.00	-25.18	Peak
5	5423.400	7.63	34.55	35.01	44.62	51.79	74.00	-22.21	Peak
6	6327.300	8.22	35.20	35.34	45.17	53.25	74.00	-20.75	Peak



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Test Mode: 07; Polarity: Vertical



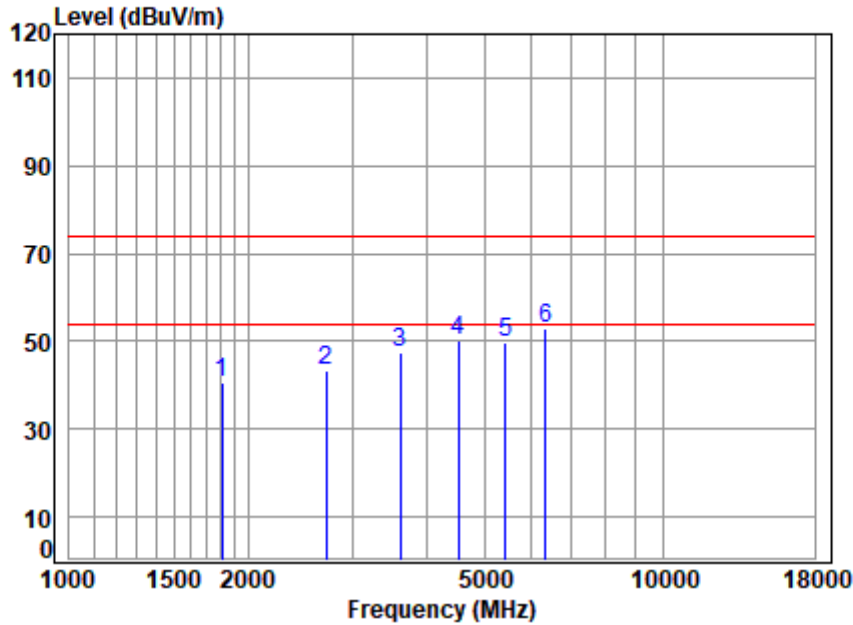
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	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	1807.800	3.61	27.05	36.17	45.25	39.74	74.00	-34.26	Peak
2	2711.700	4.56	29.50	35.53	44.03	42.56	74.00	-31.44	Peak
3	3615.600	5.76	31.96	34.72	44.20	47.20	74.00	-26.80	Peak
4	4519.500	6.79	33.46	34.69	44.45	50.01	74.00	-23.99	Peak
5	5423.400	7.63	34.55	35.01	42.86	50.03	74.00	-23.97	Peak
6	6327.300	8.22	35.20	35.34	45.14	53.22	74.00	-20.78	Peak



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Test Mode: 08; Polarity: Horizontal



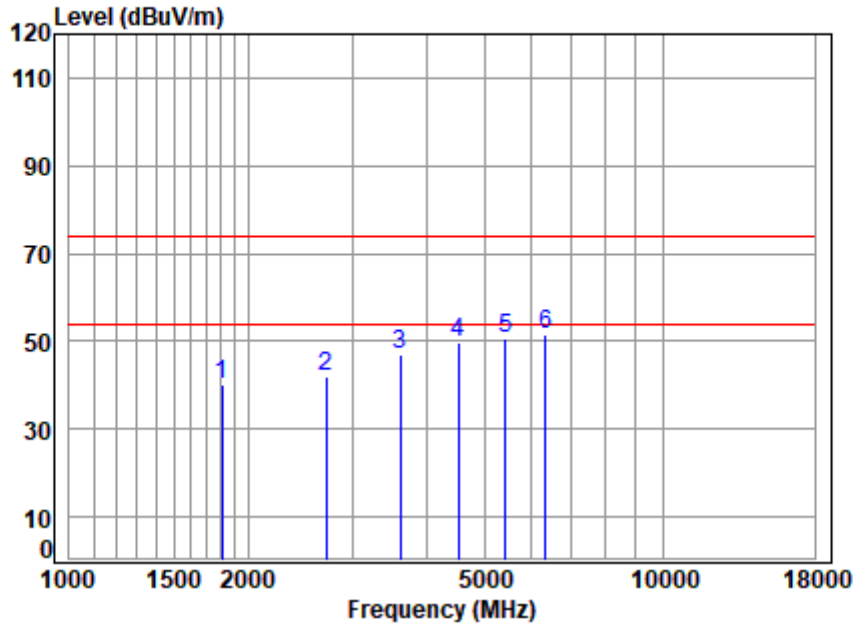
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1809.000	3.61	27.05	36.17	46.22	40.71	74.00	-33.29 Peak
2	2713.500	4.56	29.50	35.53	44.86	43.39	74.00	-30.61 Peak
3	3618.000	5.77	31.97	34.72	44.59	47.61	74.00	-26.39 Peak
4	4522.500	6.79	33.45	34.69	44.45	50.00	74.00	-24.00 Peak
5	5427.000	7.64	34.55	35.01	42.63	49.81	74.00	-24.19 Peak
6	6331.500	8.22	35.20	35.34	44.75	52.83	74.00	-21.17 Peak



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Test Mode: 08; Polarity: Vertical



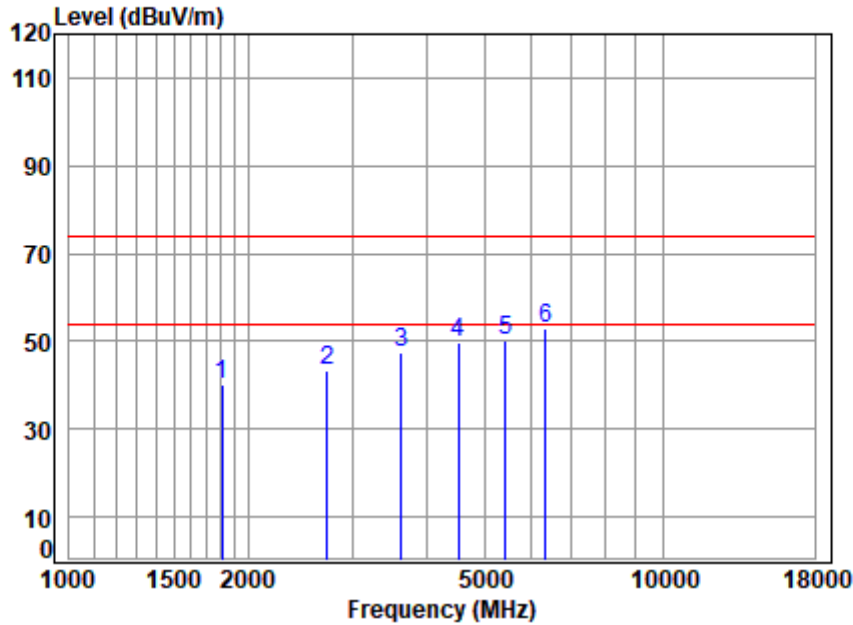
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	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	1809.000	3.61	27.05	36.17	45.89	40.38	74.00	-33.62	Peak
2	2713.500	4.56	29.50	35.53	43.59	42.12	74.00	-31.88	Peak
3	3618.000	5.77	31.97	34.72	44.10	47.12	74.00	-26.88	Peak
4	4522.500	6.79	33.45	34.69	44.15	49.70	74.00	-24.30	Peak
5	5427.000	7.64	34.55	35.01	43.65	50.83	74.00	-23.17	Peak
6	6331.500	8.22	35.20	35.34	43.60	51.68	74.00	-22.32	Peak



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Test Mode: 09; Polarity: Horizontal



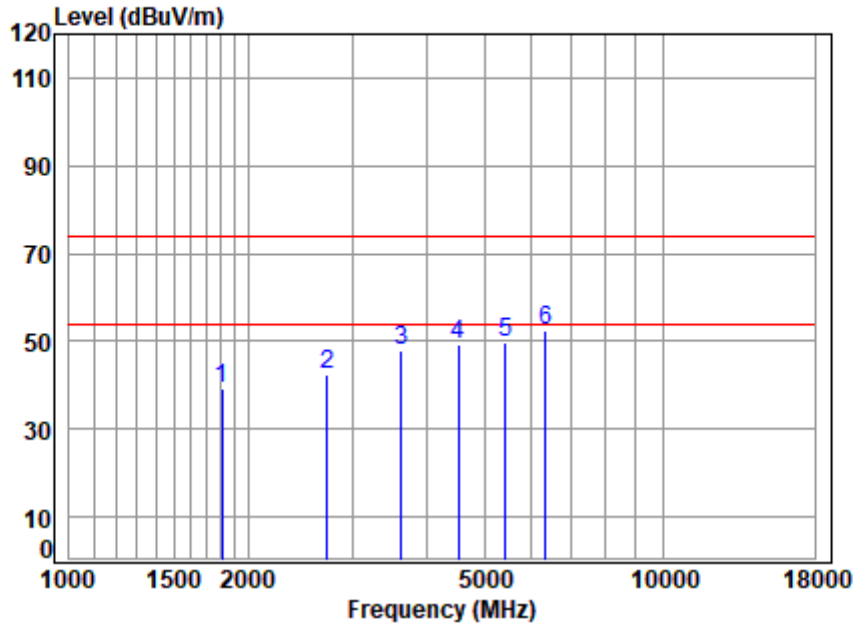
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	45.76	40.27	74.00	-33.73	Peak
2	2715.900	4.56	29.50	35.53	44.88	43.41	74.00	-30.59	Peak
3	3621.200	5.77	31.99	34.72	44.30	47.34	74.00	-26.66	Peak
4	4526.500	6.80	33.45	34.69	44.39	49.95	74.00	-24.05	Peak
5	5431.800	7.64	34.56	35.01	43.08	50.27	74.00	-23.73	Peak
6	6337.100	8.22	35.20	35.35	44.70	52.77	74.00	-21.23	Peak



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Test Mode: 09; Polarity: Vertical



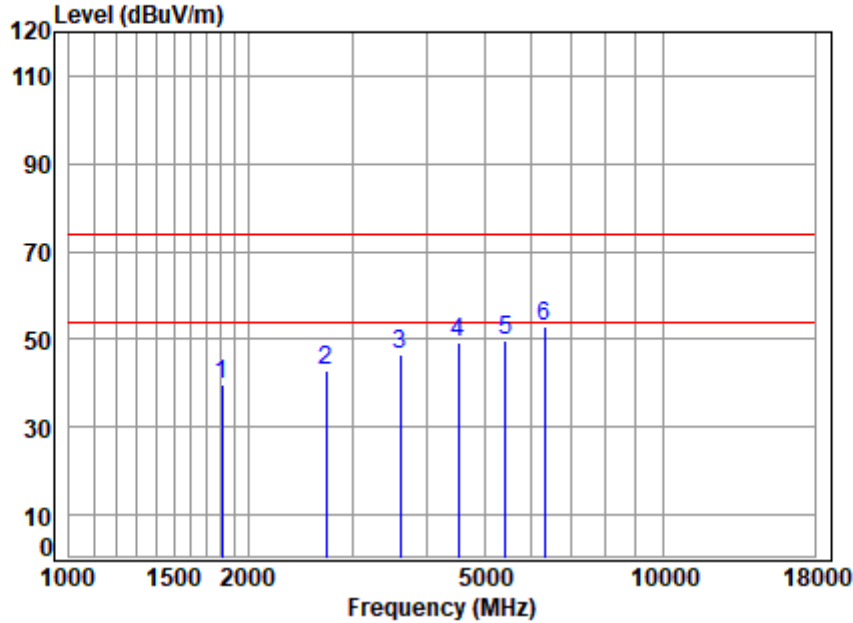
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	44.78	39.29	74.00	-34.71	Peak
2	2715.900	4.56	29.50	35.53	43.87	42.40	74.00	-31.60	Peak
3	3621.200	5.77	31.99	34.72	44.98	48.02	74.00	-25.98	Peak
4	4526.500	6.80	33.45	34.69	43.93	49.49	74.00	-24.51	Peak
5	5431.800	7.64	34.56	35.01	42.44	49.63	74.00	-24.37	Peak
6	6337.100	8.22	35.20	35.35	44.50	52.57	74.00	-21.43	Peak



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Test Mode: 10; Polarity: Horizontal



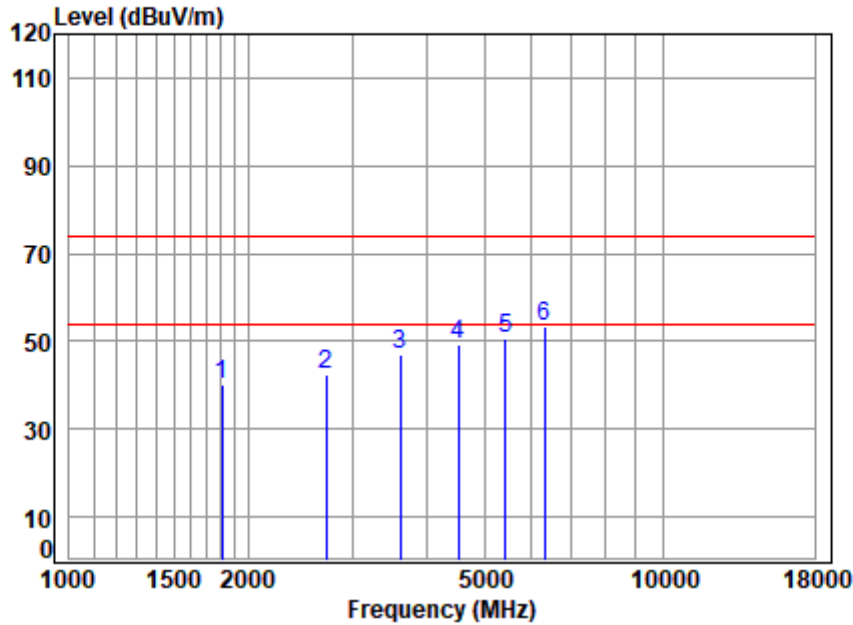
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	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	1807.800	3.61	27.05	36.17	45.34	39.83	74.00	-34.17	Peak
2	2711.700	4.56	29.50	35.53	44.36	42.89	74.00	-31.11	Peak
3	3615.600	5.76	31.96	34.72	43.49	46.49	74.00	-27.51	Peak
4	4519.500	6.79	33.46	34.69	43.56	49.12	74.00	-24.88	Peak
5	5423.400	7.63	34.55	35.01	42.68	49.85	74.00	-24.15	Peak
6	6327.300	8.22	35.20	35.34	44.69	52.77	74.00	-21.23	Peak



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Test Mode: 10; Polarity: Vertical



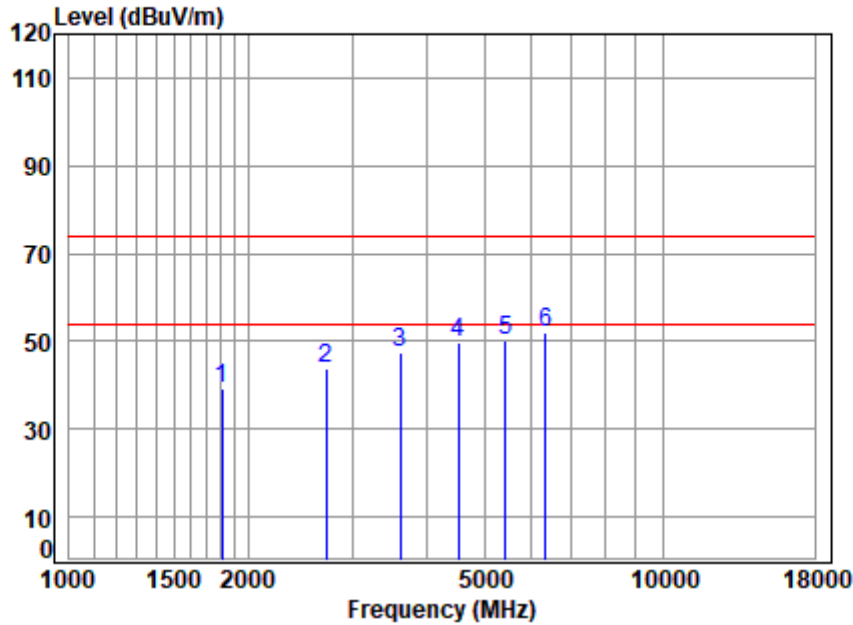
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	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	1807.800	3.61	27.05	36.17	45.70	40.19	74.00	-33.81	Peak
2	2711.700	4.56	29.50	35.53	43.75	42.28	74.00	-31.72	Peak
3	3615.600	5.76	31.96	34.72	43.90	46.90	74.00	-27.10	Peak
4	4519.500	6.79	33.46	34.69	43.78	49.34	74.00	-24.66	Peak
5	5423.400	7.63	34.55	35.01	43.28	50.45	74.00	-23.55	Peak
6	6327.300	8.22	35.20	35.34	45.42	53.50	74.00	-20.50	Peak



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Test Mode: 11; Polarity: Horizontal



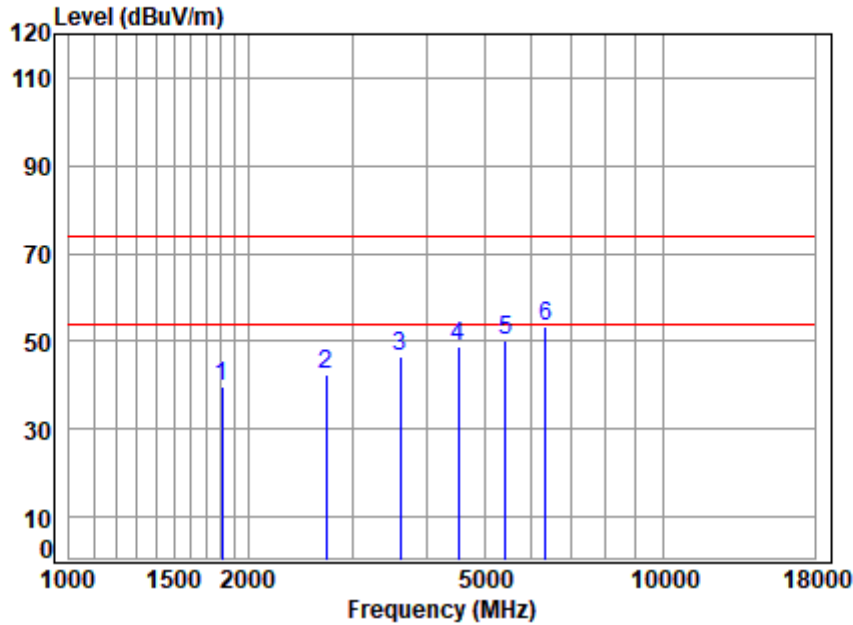
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	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	1809.000	3.61	27.05	36.17	44.68	39.17	74.00	-34.83	Peak
2	2713.500	4.56	29.50	35.53	45.42	43.95	74.00	-30.05	Peak
3	3618.000	5.77	31.97	34.72	44.60	47.62	74.00	-26.38	Peak
4	4522.500	6.79	33.45	34.69	44.33	49.88	74.00	-24.12	Peak
5	5427.000	7.64	34.55	35.01	42.94	50.12	74.00	-23.88	Peak
6	6331.500	8.22	35.20	35.34	44.15	52.23	74.00	-21.77	Peak



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Test Mode: 11; Polarity: Vertical



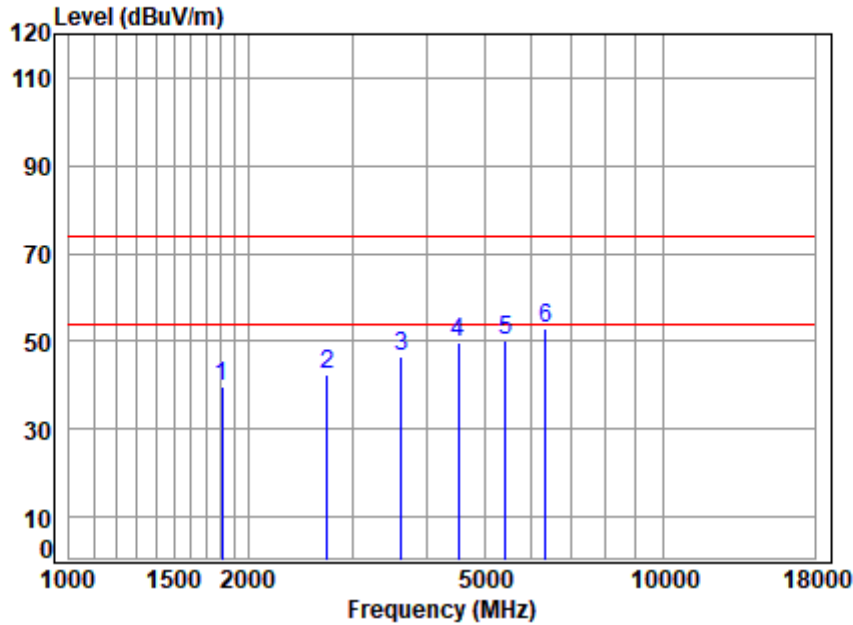
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	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	1809.000	3.61	27.05	36.17	45.22	39.71	74.00	-34.29	Peak
2	2713.500	4.56	29.50	35.53	44.05	42.58	74.00	-31.42	Peak
3	3618.000	5.77	31.97	34.72	43.58	46.60	74.00	-27.40	Peak
4	4522.500	6.79	33.45	34.69	43.22	48.77	74.00	-25.23	Peak
5	5427.000	7.64	34.55	35.01	42.89	50.07	74.00	-23.93	Peak
6	6331.500	8.22	35.20	35.34	45.15	53.23	74.00	-20.77	Peak



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Test Mode: 12; Polarity: Horizontal



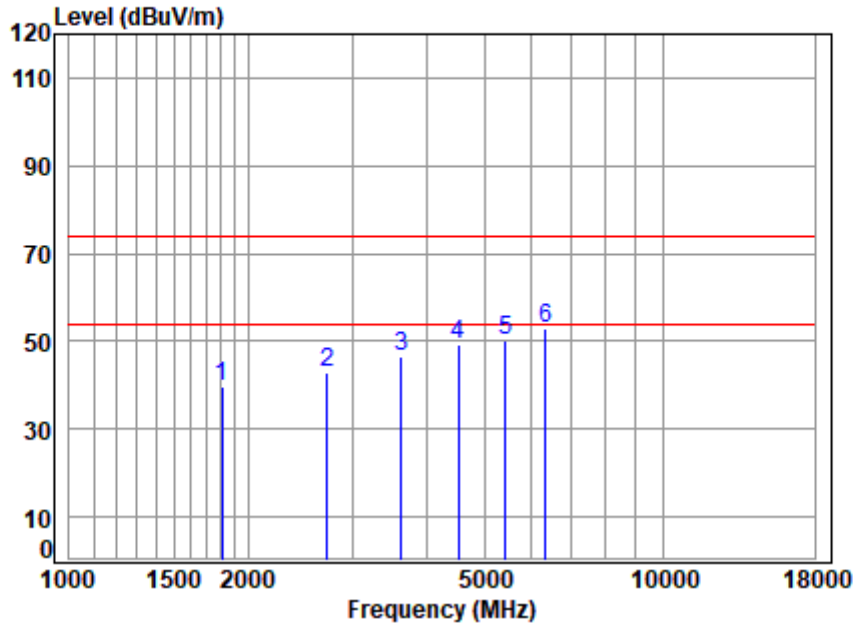
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	45.40	39.91	74.00	-34.09	Peak
2	2715.900	4.56	29.50	35.53	43.96	42.49	74.00	-31.51	Peak
3	3621.200	5.77	31.99	34.72	43.36	46.40	74.00	-27.60	Peak
4	4526.500	6.80	33.45	34.69	44.10	49.66	74.00	-24.34	Peak
5	5431.800	7.64	34.56	35.01	43.03	50.22	74.00	-23.78	Peak
6	6337.100	8.22	35.20	35.35	44.94	53.01	74.00	-20.99	Peak



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Test Mode: 12; Polarity: Vertical



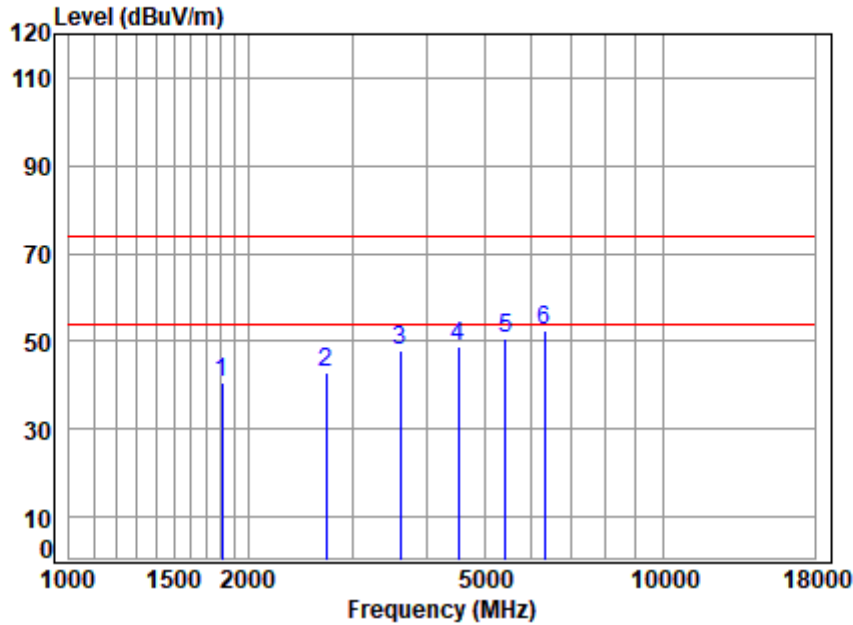
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	45.37	39.88	74.00	-34.12	Peak
2	2715.900	4.56	29.50	35.53	44.14	42.67	74.00	-31.33	Peak
3	3621.200	5.77	31.99	34.72	43.52	46.56	74.00	-27.44	Peak
4	4526.500	6.80	33.45	34.69	43.76	49.32	74.00	-24.68	Peak
5	5431.800	7.64	34.56	35.01	42.88	50.07	74.00	-23.93	Peak
6	6337.100	8.22	35.20	35.35	44.79	52.86	74.00	-21.14	Peak



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Test Mode: 13; Polarity: Horizontal



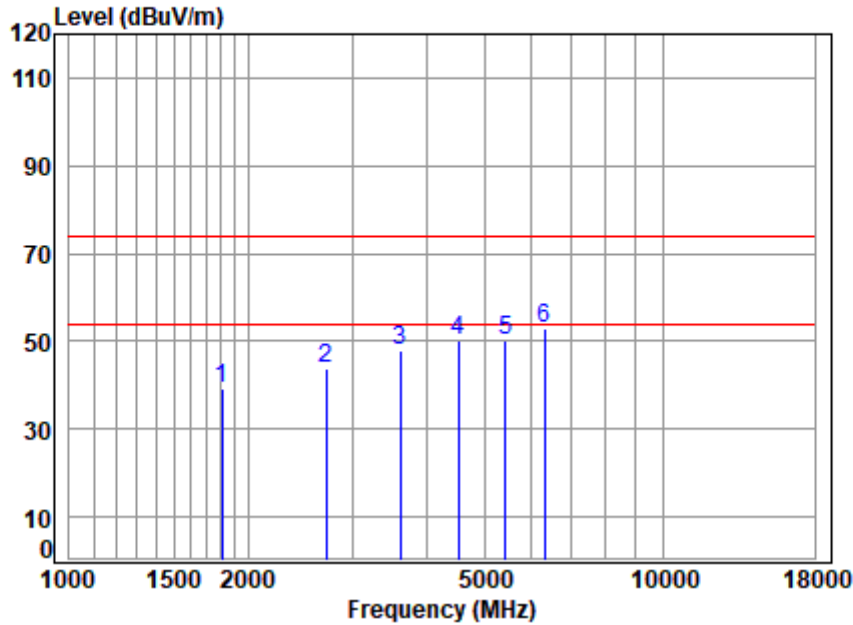
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	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	1807.800	3.61	27.05	36.17	45.91	40.40	74.00	-33.60	Peak
2	2711.700	4.56	29.50	35.53	44.33	42.86	74.00	-31.14	Peak
3	3615.600	5.76	31.96	34.72	45.06	48.06	74.00	-25.94	Peak
4	4519.500	6.79	33.46	34.69	43.45	49.01	74.00	-24.99	Peak
5	5423.400	7.63	34.55	35.01	43.35	50.52	74.00	-23.48	Peak
6	6327.300	8.22	35.20	35.34	44.48	52.56	74.00	-21.44	Peak



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Test Mode: 13; Polarity: Vertical



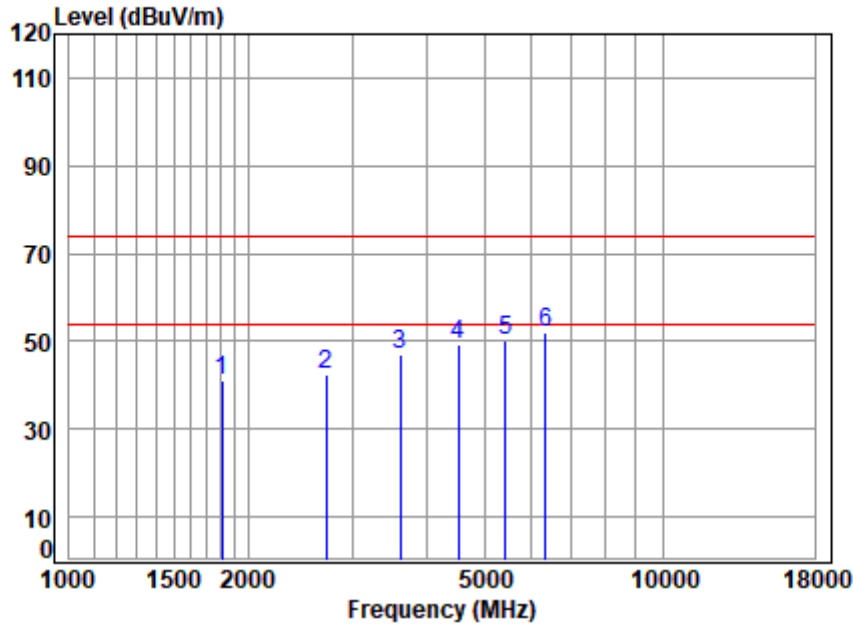
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 903.9M RSE TX

	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	1807.800	3.61	27.05	36.17	44.79	39.28	74.00	-34.72	Peak
2	2711.700	4.56	29.50	35.53	45.47	44.00	74.00	-30.00	Peak
3	3615.600	5.76	31.96	34.72	44.72	47.72	74.00	-26.28	Peak
4	4519.500	6.79	33.46	34.69	44.64	50.20	74.00	-23.80	Peak
5	5423.400	7.63	34.55	35.01	43.21	50.38	74.00	-23.62	Peak
6	6327.300	8.22	35.20	35.34	45.01	53.09	74.00	-20.91	Peak



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Test Mode: 14; Polarity: Horizontal



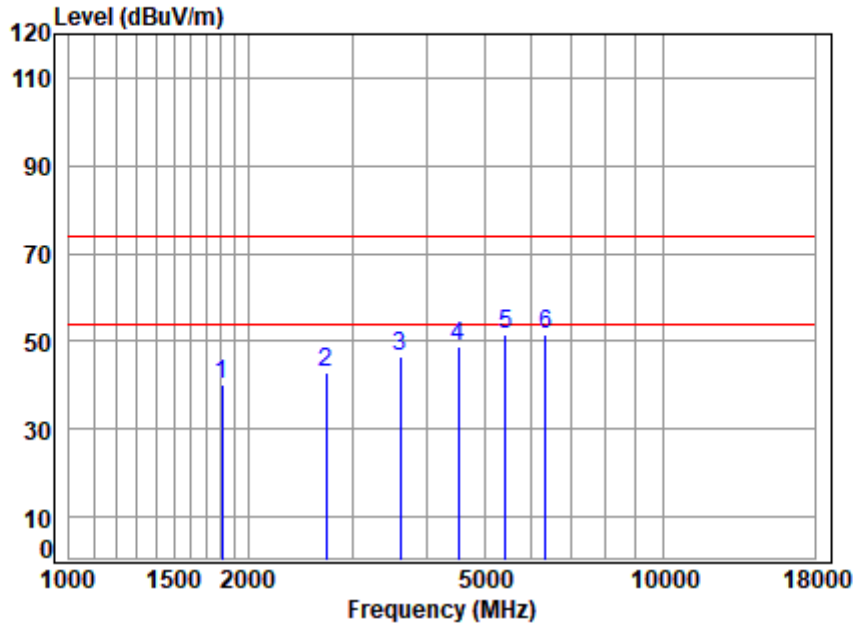
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	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	1809.000	3.61	27.05	36.17	46.53	41.02	74.00	-32.98	Peak
2	2713.500	4.56	29.50	35.53	44.07	42.60	74.00	-31.40	Peak
3	3618.000	5.77	31.97	34.72	44.20	47.22	74.00	-26.78	Peak
4	4522.500	6.79	33.45	34.69	43.90	49.45	74.00	-24.55	Peak
5	5427.000	7.64	34.55	35.01	43.19	50.37	74.00	-23.63	Peak
6	6331.500	8.22	35.20	35.34	44.02	52.10	74.00	-21.90	Peak



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Test Mode: 14; Polarity: Vertical



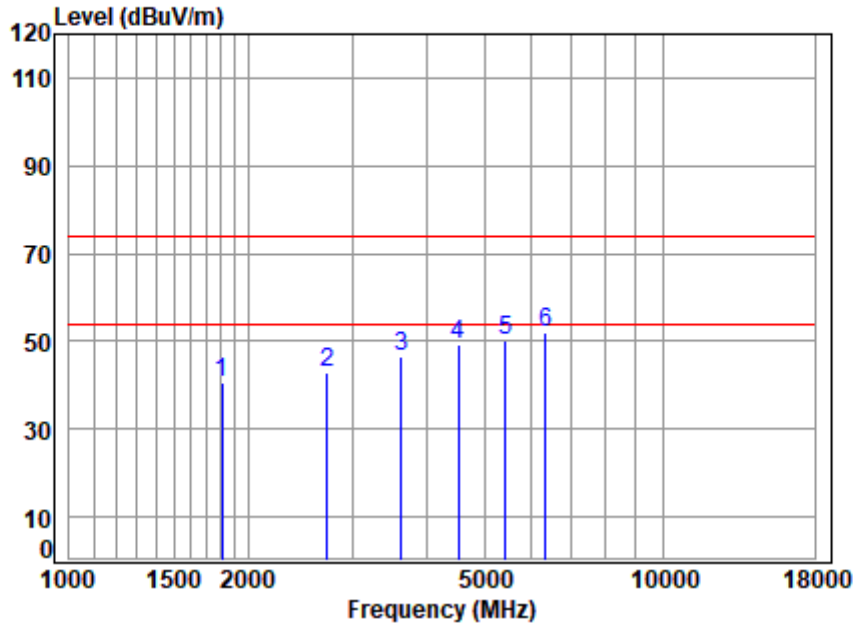
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 904.5M RSE TX

	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	1809.000	3.61	27.05	36.17	45.78	40.27	74.00	-33.73	Peak
2	2713.500	4.56	29.50	35.53	44.59	43.12	74.00	-30.88	Peak
3	3618.000	5.77	31.97	34.72	43.47	46.49	74.00	-27.51	Peak
4	4522.500	6.79	33.45	34.69	43.41	48.96	74.00	-25.04	Peak
5	5427.000	7.64	34.55	35.01	44.21	51.39	74.00	-22.61	Peak
6	6331.500	8.22	35.20	35.34	43.68	51.76	74.00	-22.24	Peak



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Test Mode: 15; Polarity: Horizontal



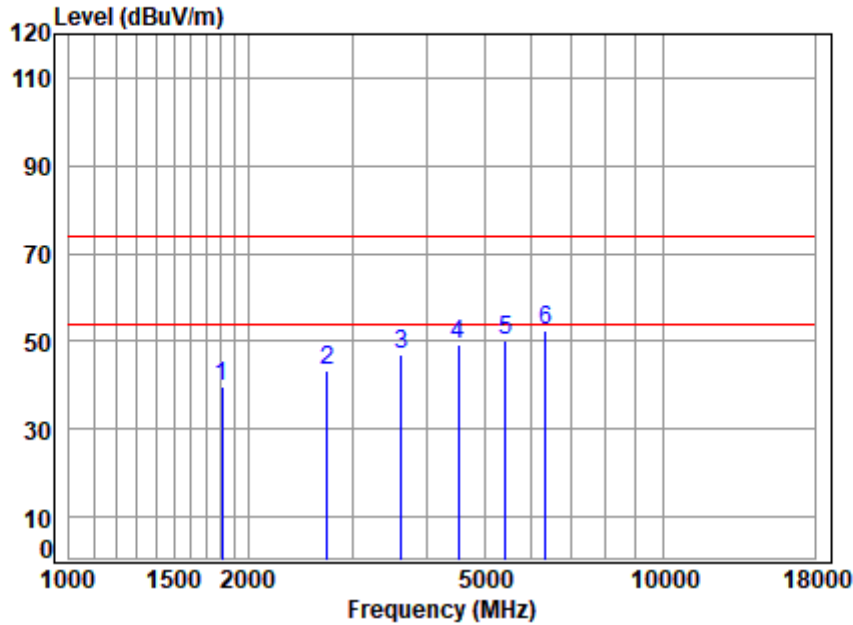
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	45.87	40.38	74.00	-33.62	Peak
2	2715.900	4.56	29.50	35.53	44.47	43.00	74.00	-31.00	Peak
3	3621.200	5.77	31.99	34.72	43.60	46.64	74.00	-27.36	Peak
4	4526.500	6.80	33.45	34.69	43.78	49.34	74.00	-24.66	Peak
5	5431.800	7.64	34.56	35.01	42.99	50.18	74.00	-23.82	Peak
6	6337.100	8.22	35.20	35.35	44.17	52.24	74.00	-21.76	Peak



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Test Mode: 15; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 04131AT
 Mode : 905.3M RSE TX

	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	1810.600	3.61	27.06	36.16	45.08	39.59	74.00	-34.41	Peak
2	2715.900	4.56	29.50	35.53	44.73	43.26	74.00	-30.74	Peak
3	3621.200	5.77	31.99	34.72	43.85	46.89	74.00	-27.11	Peak
4	4526.500	6.80	33.45	34.69	43.58	49.14	74.00	-24.86	Peak
5	5431.800	7.64	34.56	35.01	42.96	50.15	74.00	-23.85	Peak
6	6337.100	8.22	35.20	35.35	44.57	52.64	74.00	-21.36	Peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2212004131AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2212004131AT.



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10 Appendix

Lora_Hybrid mode:

1. Bandwidth

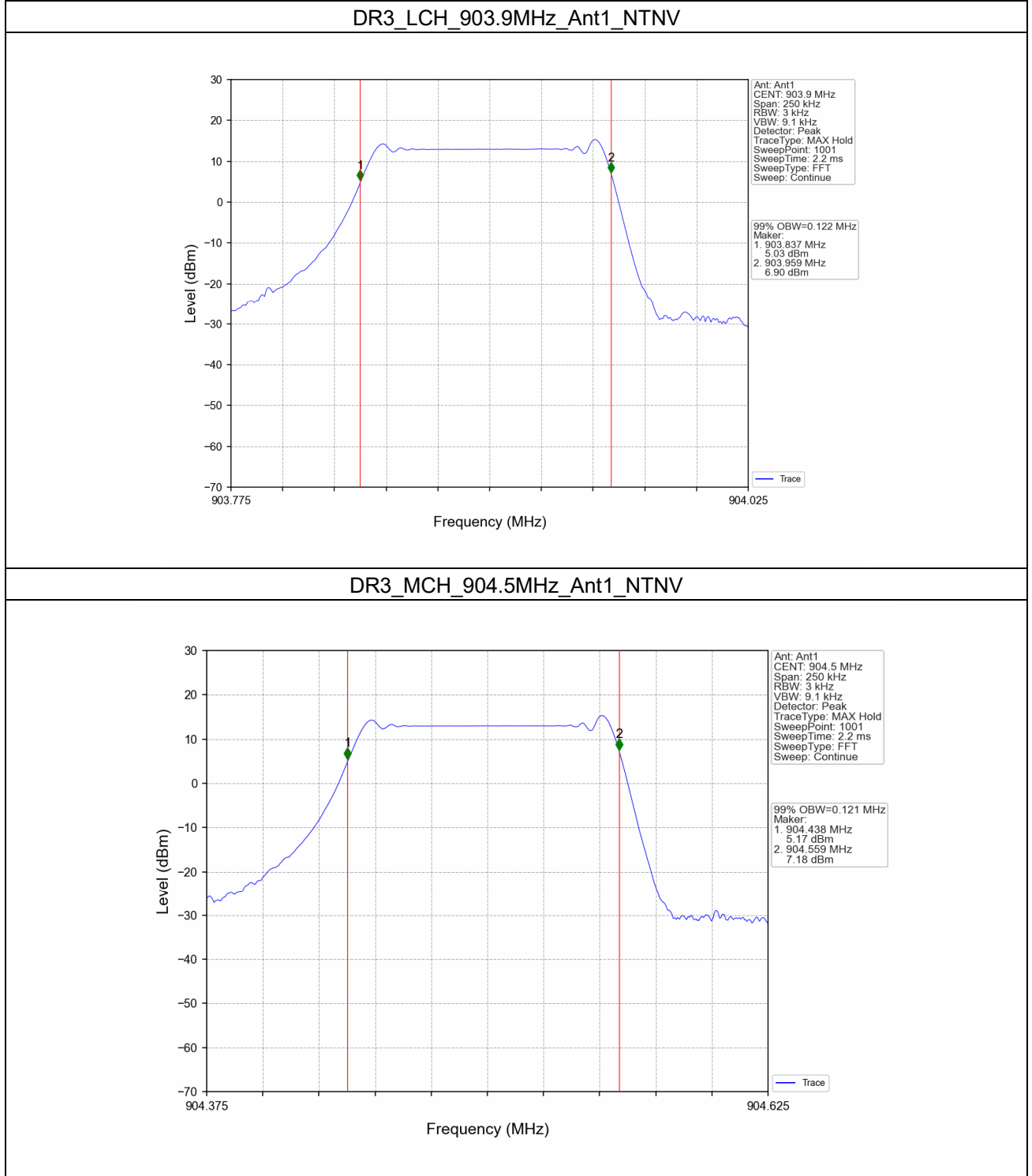
1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
DR3	SISO	903.9	1	0.122	Pass
		904.5	1	0.121	Pass
		905.3	1	0.120	Pass
DR1	SISO	903.9	1	0.123	Pass
		904.5	1	0.124	Pass
		905.3	1	0.123	Pass
DR0	SISO	903.9	1	0.123	Pass
		904.5	1	0.123	Pass
		905.3	1	0.123	Pass

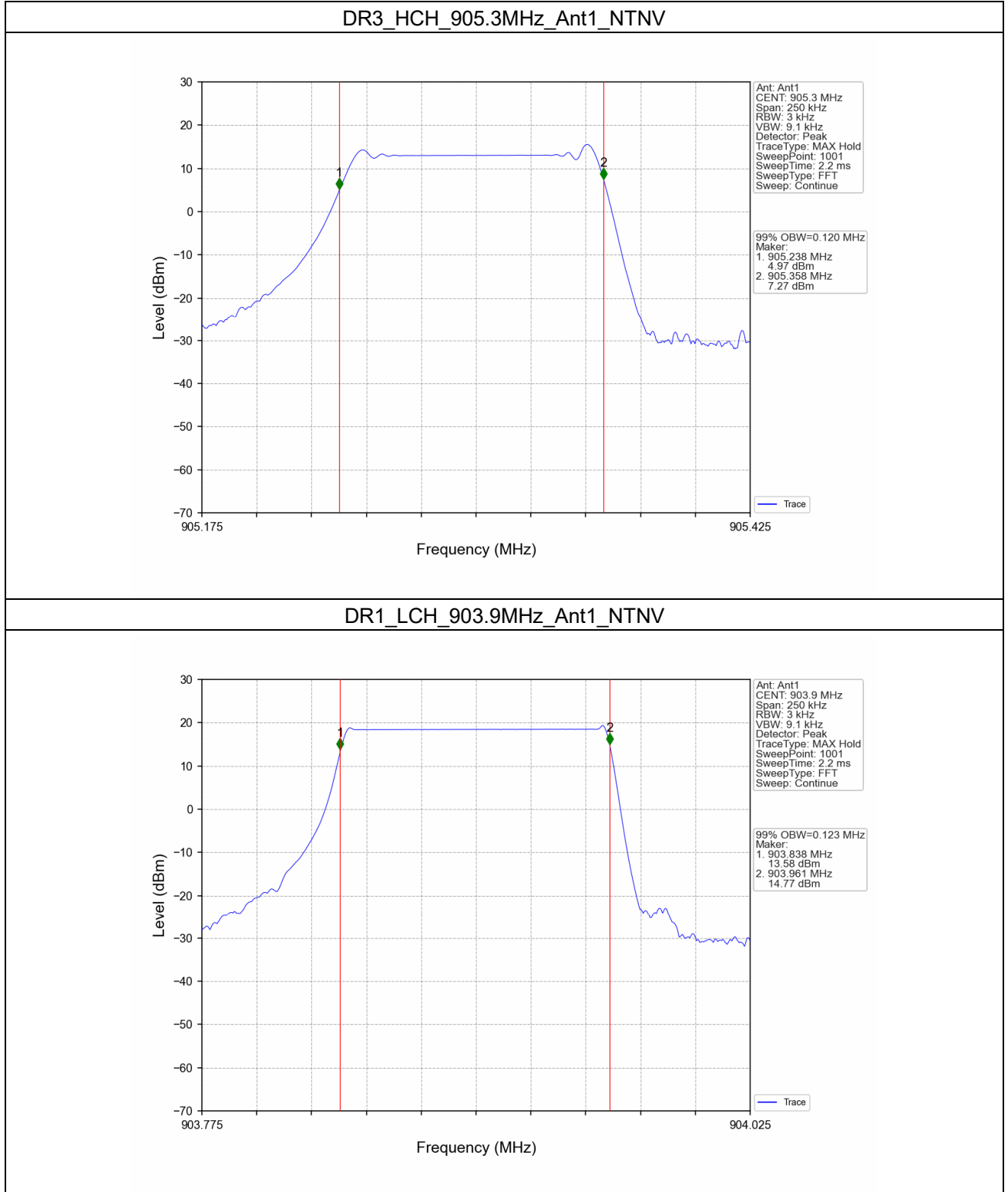


1.1.2 Test Graph



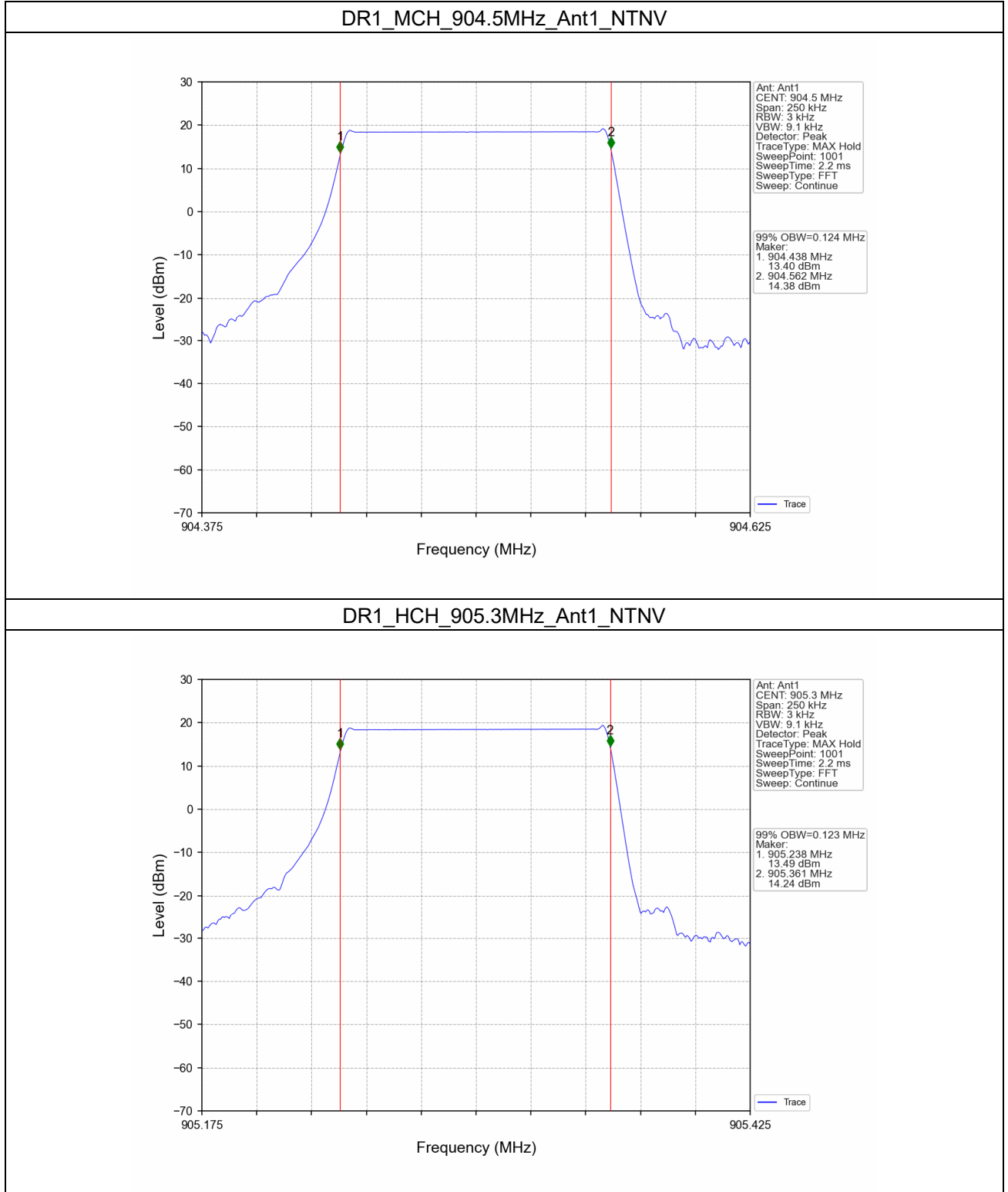
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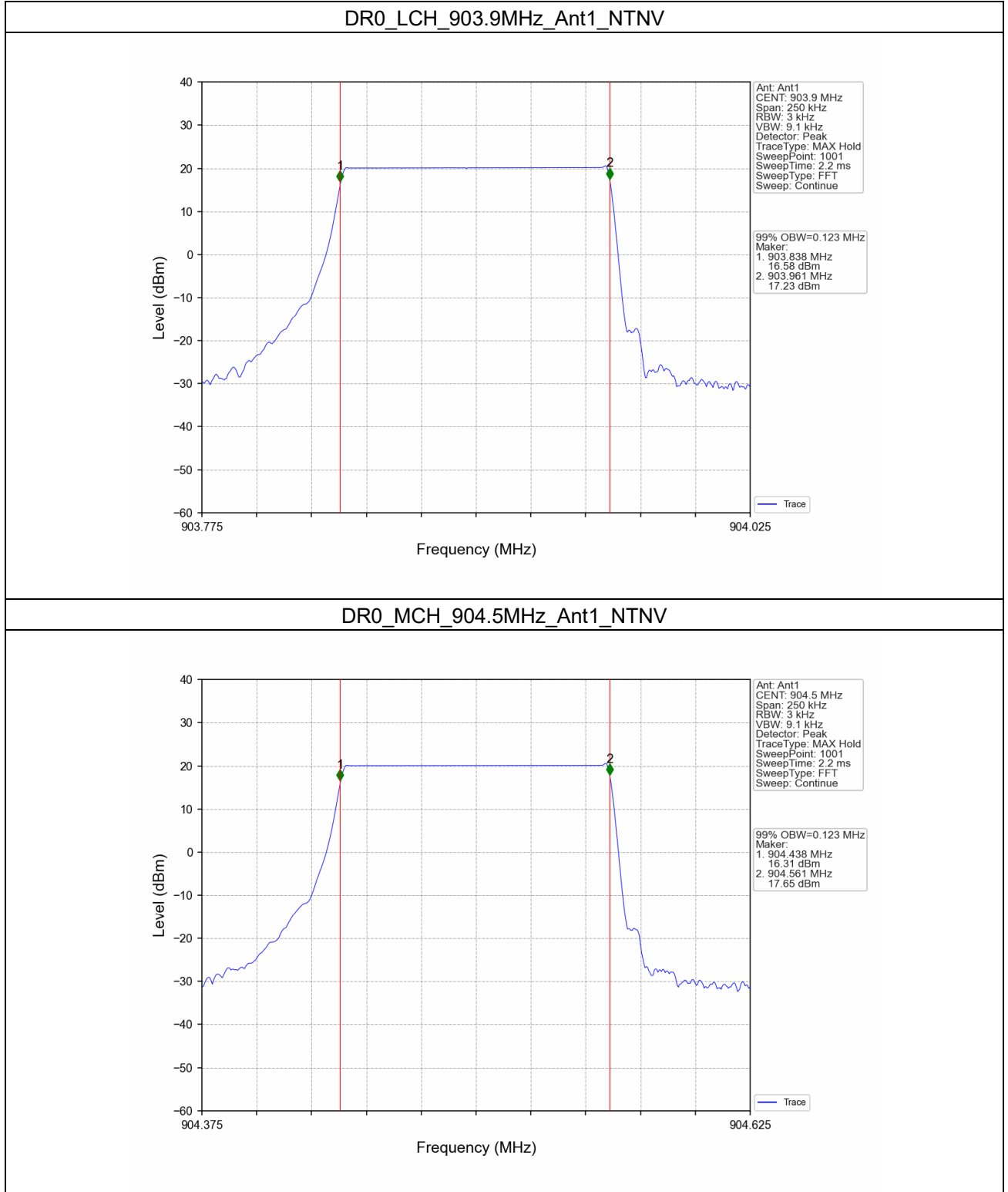
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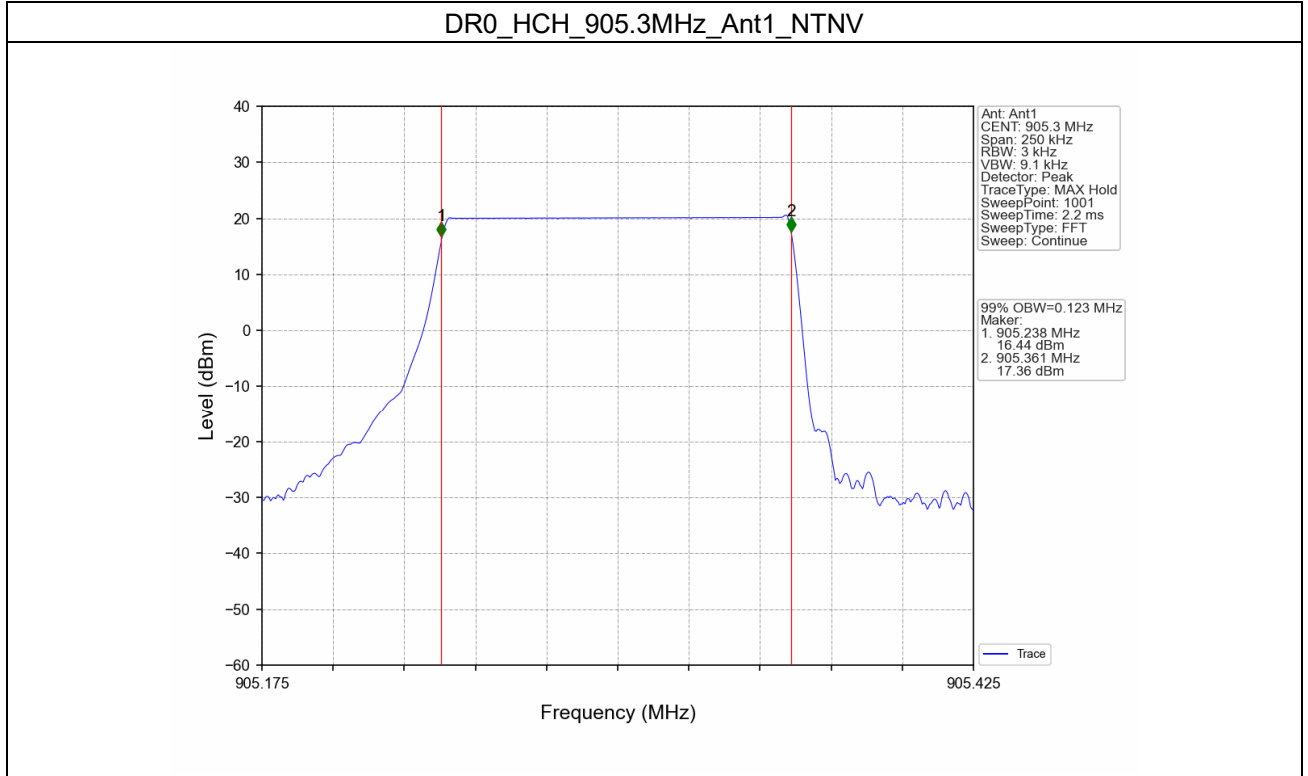
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1.2 20dB BW

1.2.1 Test Result

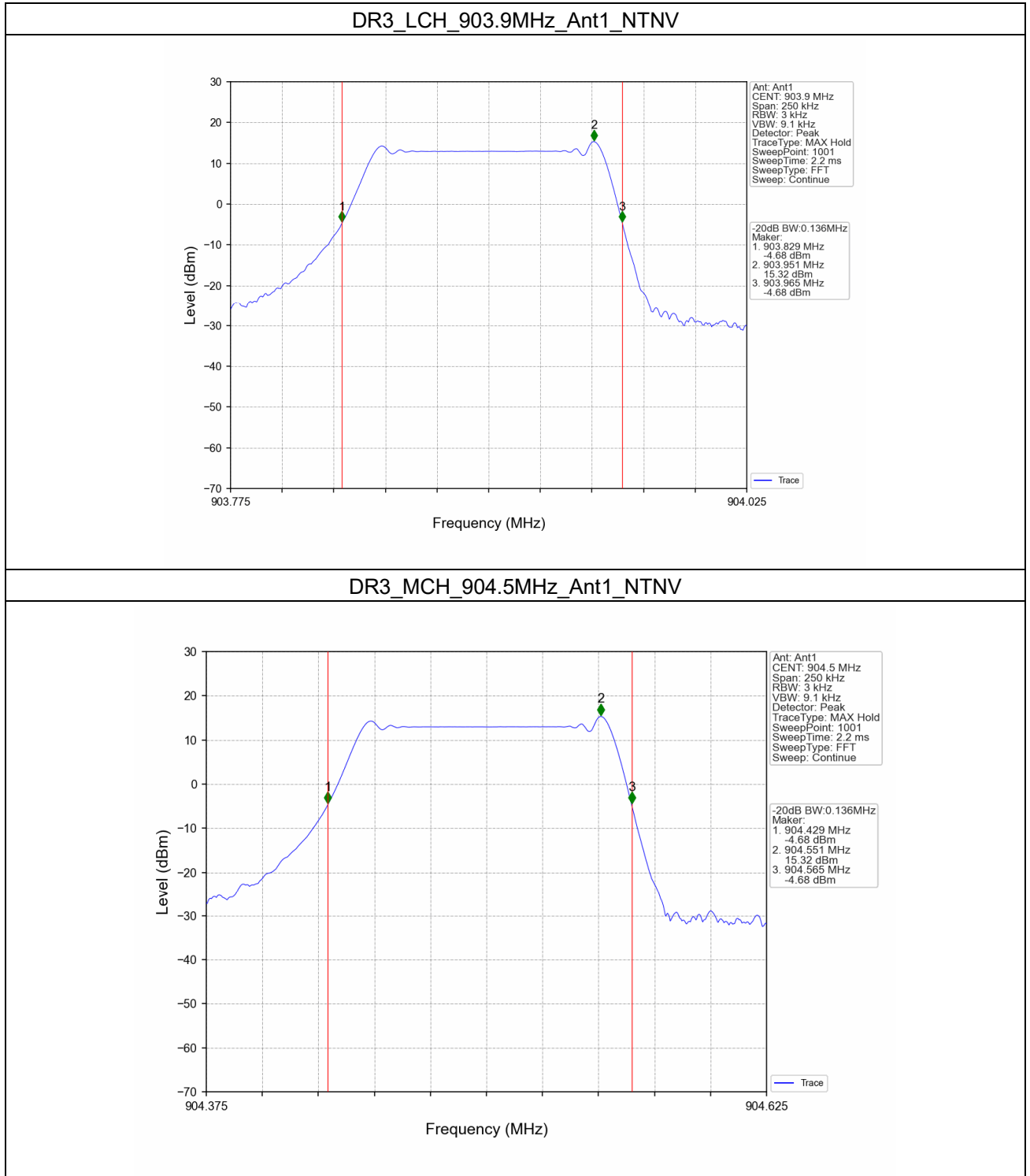
Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)	Verdict
				Result	
DR3	SISO	903.9	1	0.136	Pass
		904.5	1	0.136	Pass
		905.3	1	0.135	Pass
DR1	SISO	903.9	1	0.135	Pass
		904.5	1	0.136	Pass
		905.3	1	0.135	Pass
DR0	SISO	903.9	1	0.133	Pass
		904.5	1	0.133	Pass
		905.3	1	0.133	Pass



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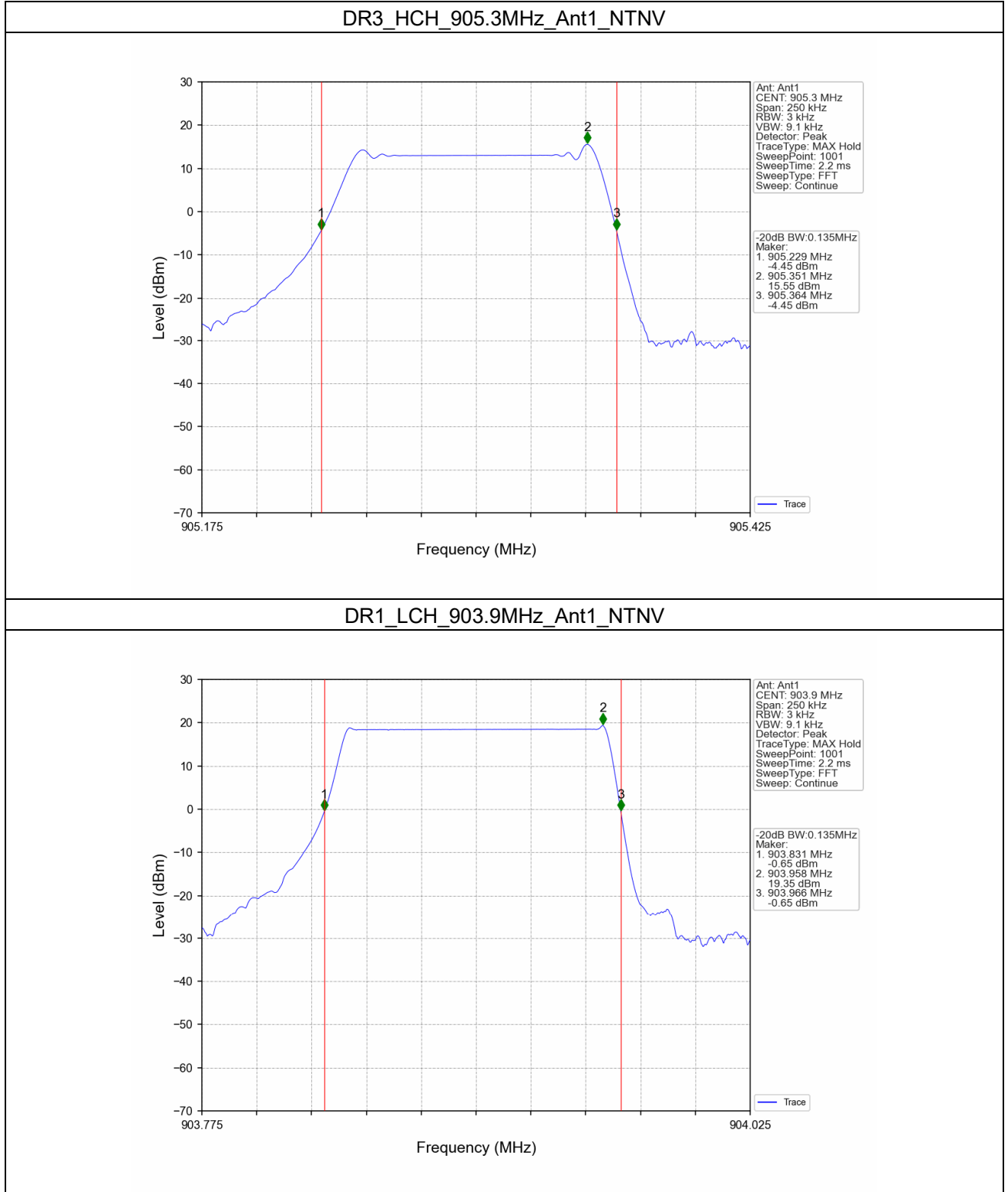
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1.2.2 Test Graph



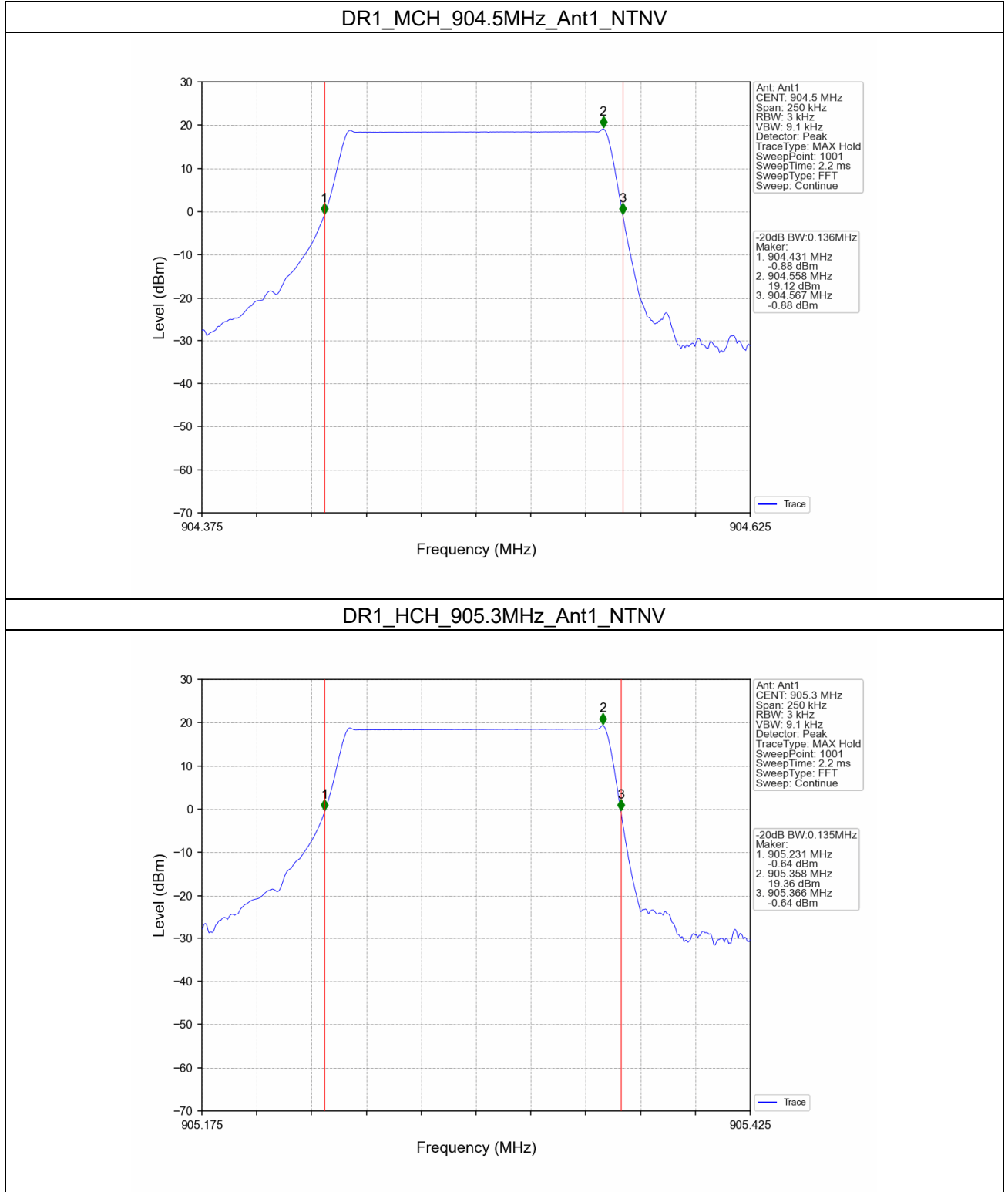
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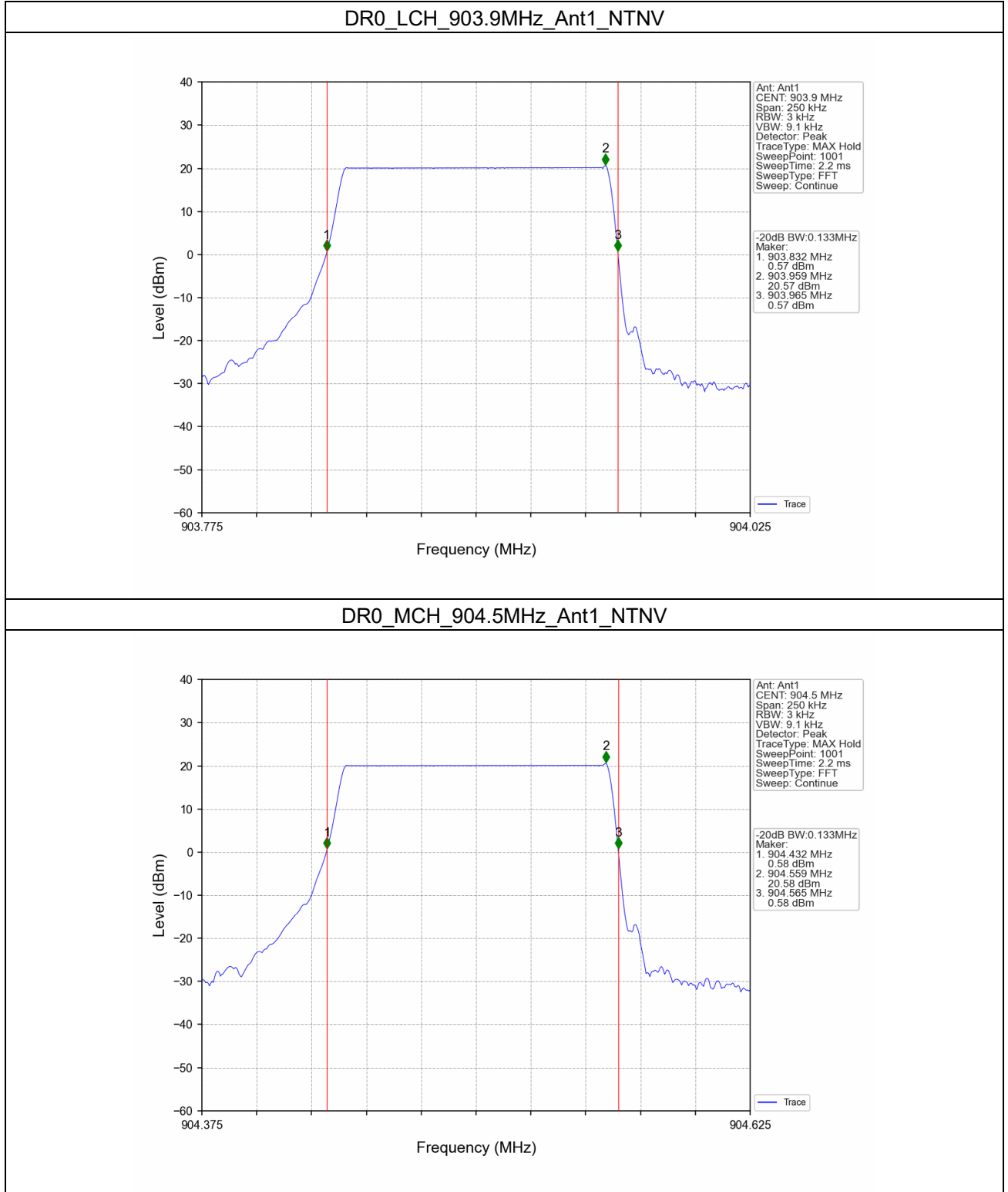
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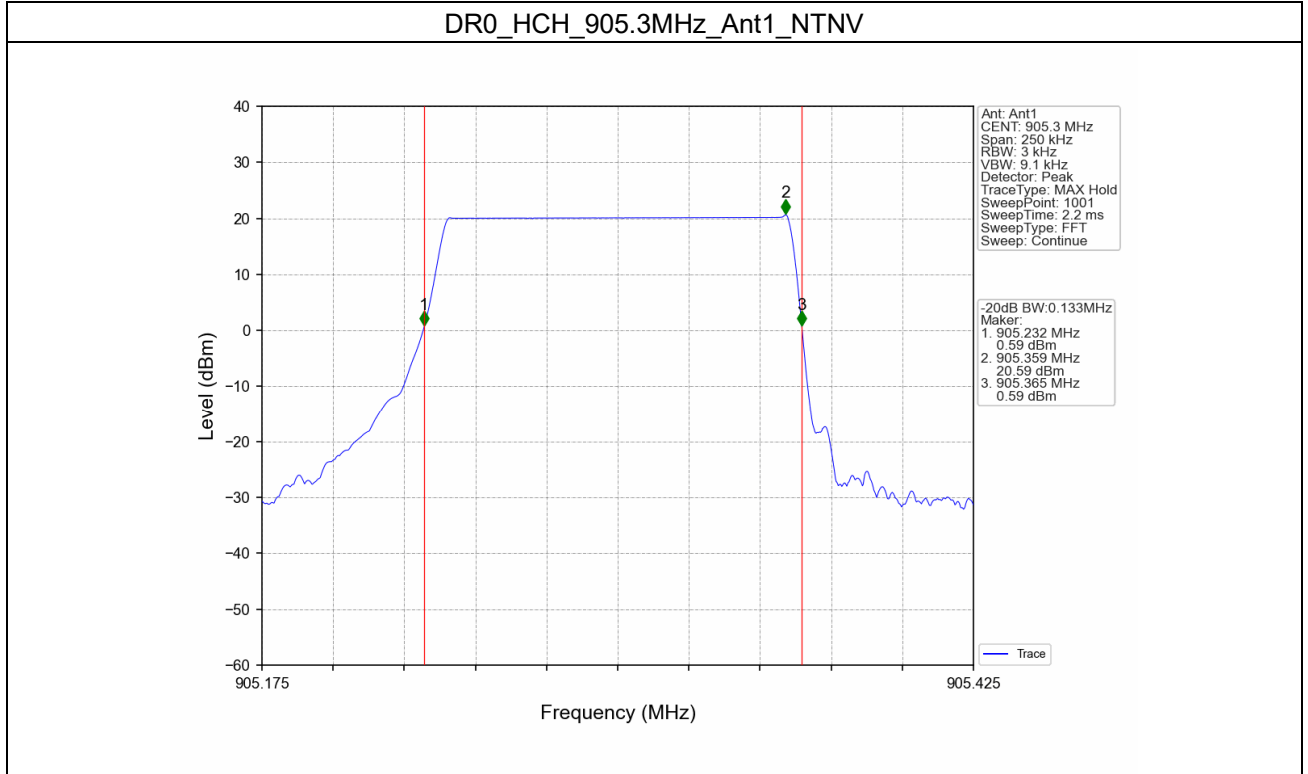
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
DR3	SISO	903.9	20.97	<=30	Pass
		904.5	21.00	<=30	Pass
		905.3	21.06	<=30	Pass
DR1	SISO	903.9	21.04	<=30	Pass
		904.5	21.03	<=30	Pass
		905.3	21.06	<=30	Pass
DR0	SISO	903.9	21.03	<=30	Pass
		904.5	21.02	<=30	Pass
		905.3	21.04	<=30	Pass



3. Carrier Frequency Separation

3.1 Ant1

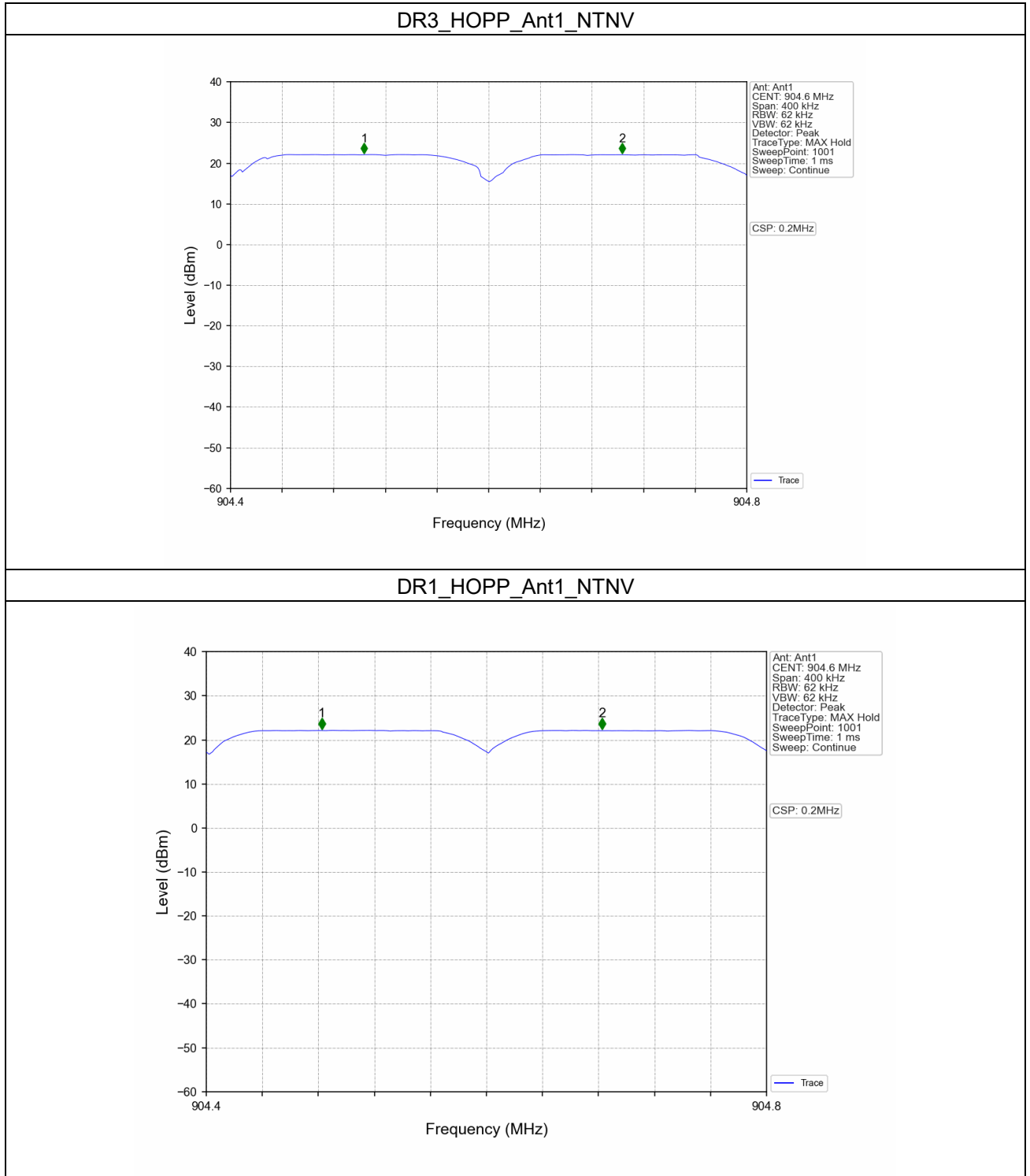
3.1.1 Test Result

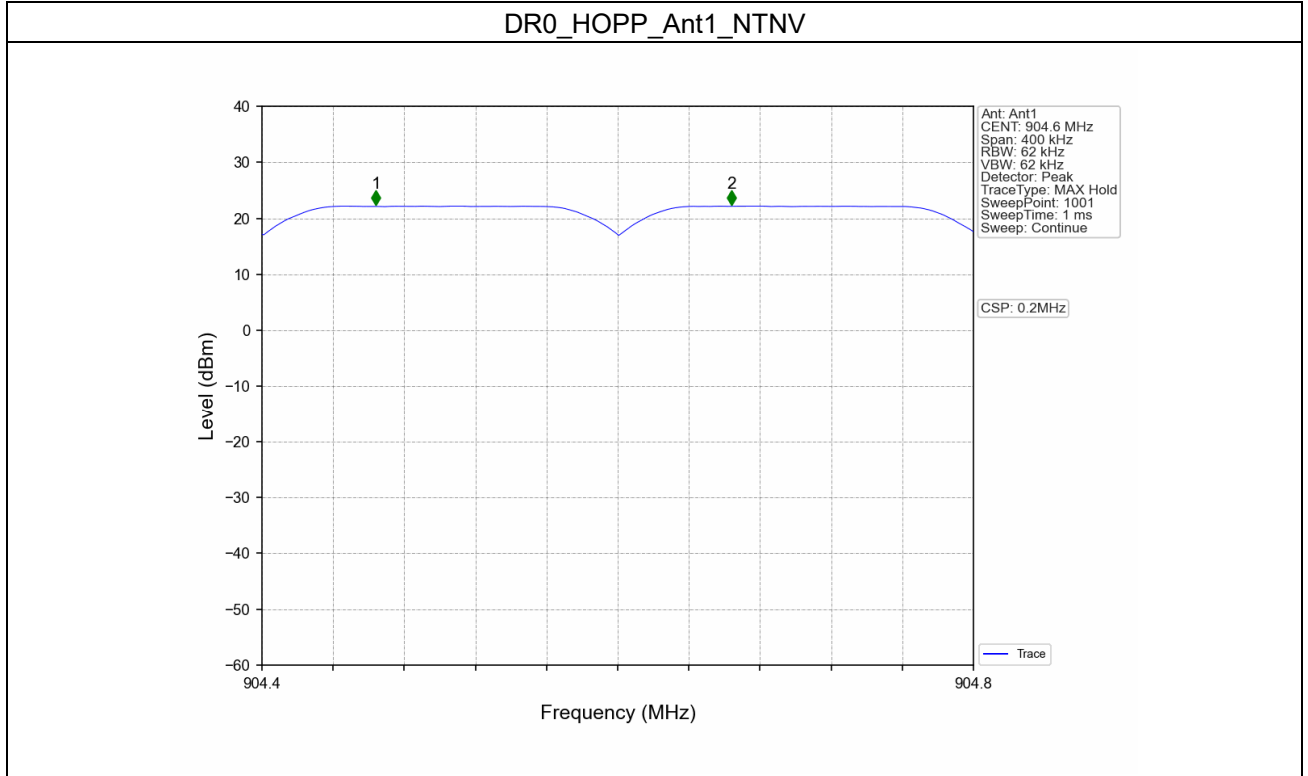
Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
DR3	SISO	HOPP	0.200	0.136	>=0.136	Pass
DR1	SISO	HOPP	0.200	0.136	>=0.136	Pass
DR0	SISO	HOPP	0.200	0.133	>=0.133	Pass



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3.1.2 Test Graph





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4. Number of Hopping Frequencies

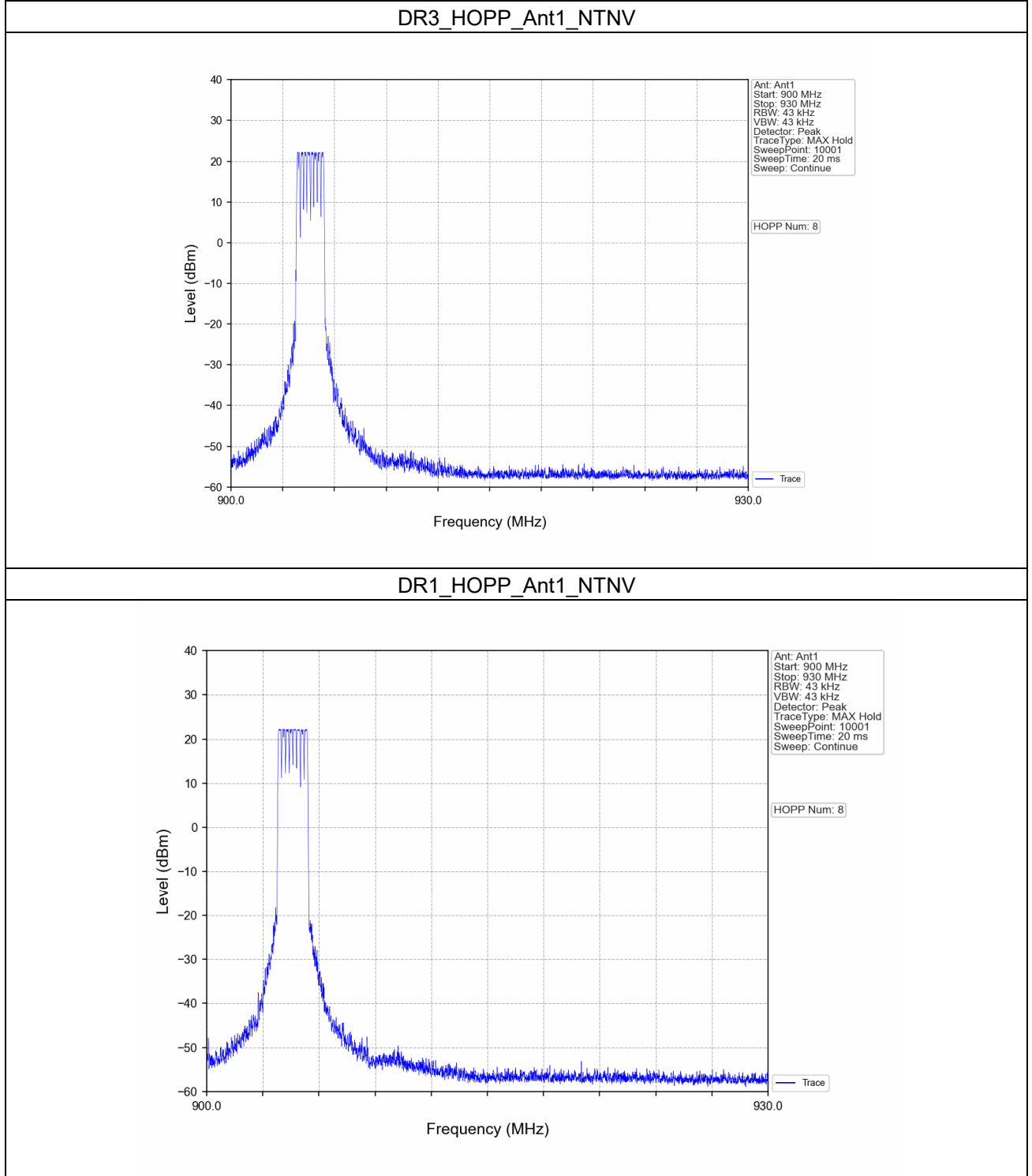
4.1 HoppNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies	Verdict
			ANT1	
DR3	SISO	HOPP	8	Pass
DR1	SISO	HOPP	8	Pass
DR0	SISO	HOPP	8	Pass

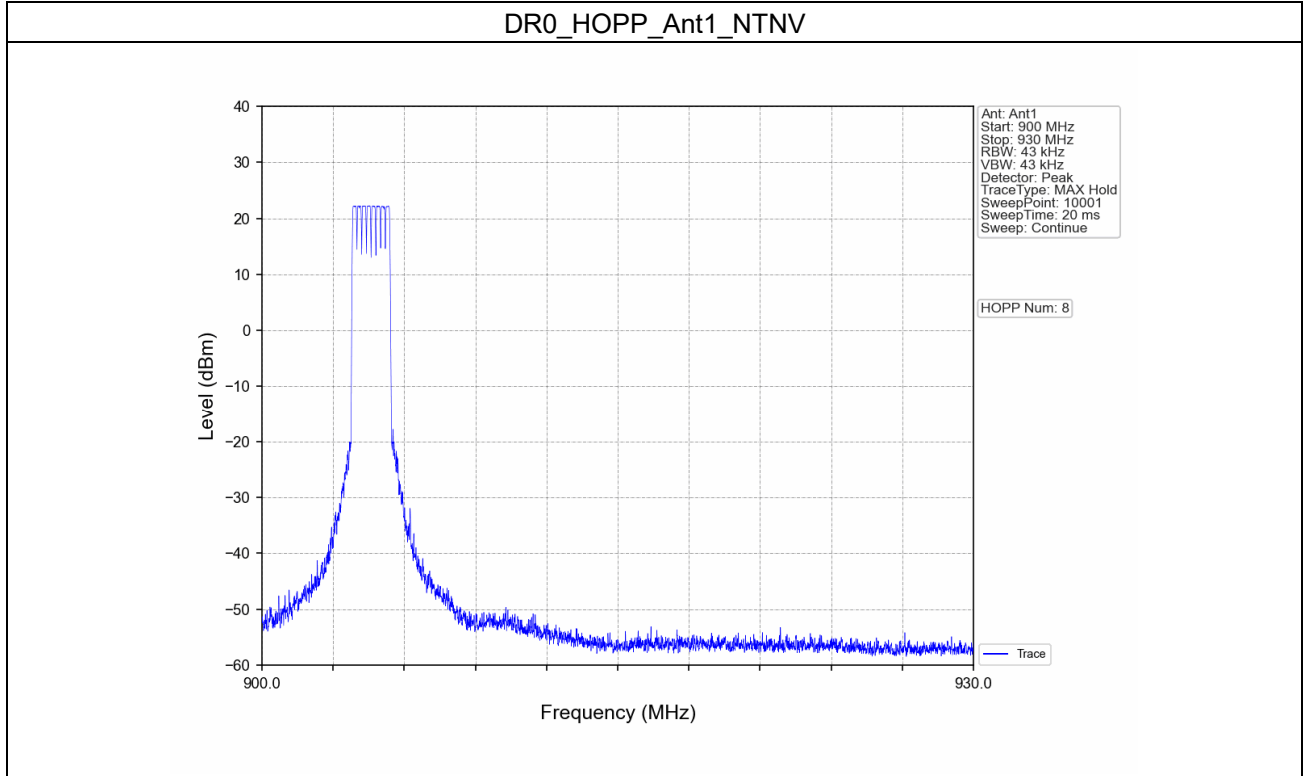


4.1.2 Test Graph



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

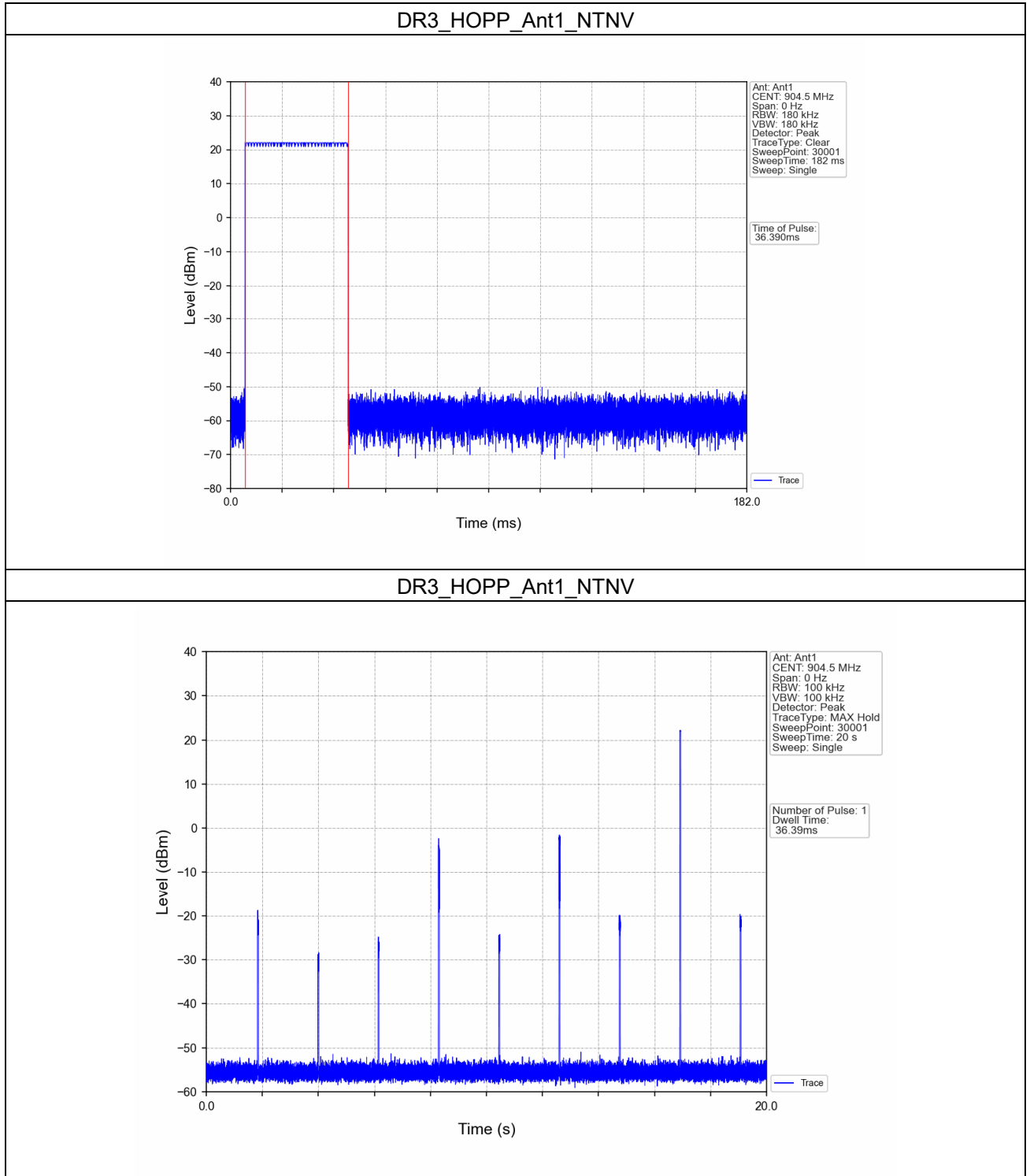
Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
DR3	SISO	HOPP	36.390	20.000	1	36.390	<=400	Pass
DR1	SISO	HOPP	125.159	20.000	2	250.318	<=400	Pass
DR0	SISO	HOPP	253.244	20.000	1	253.244	<=400	Pass



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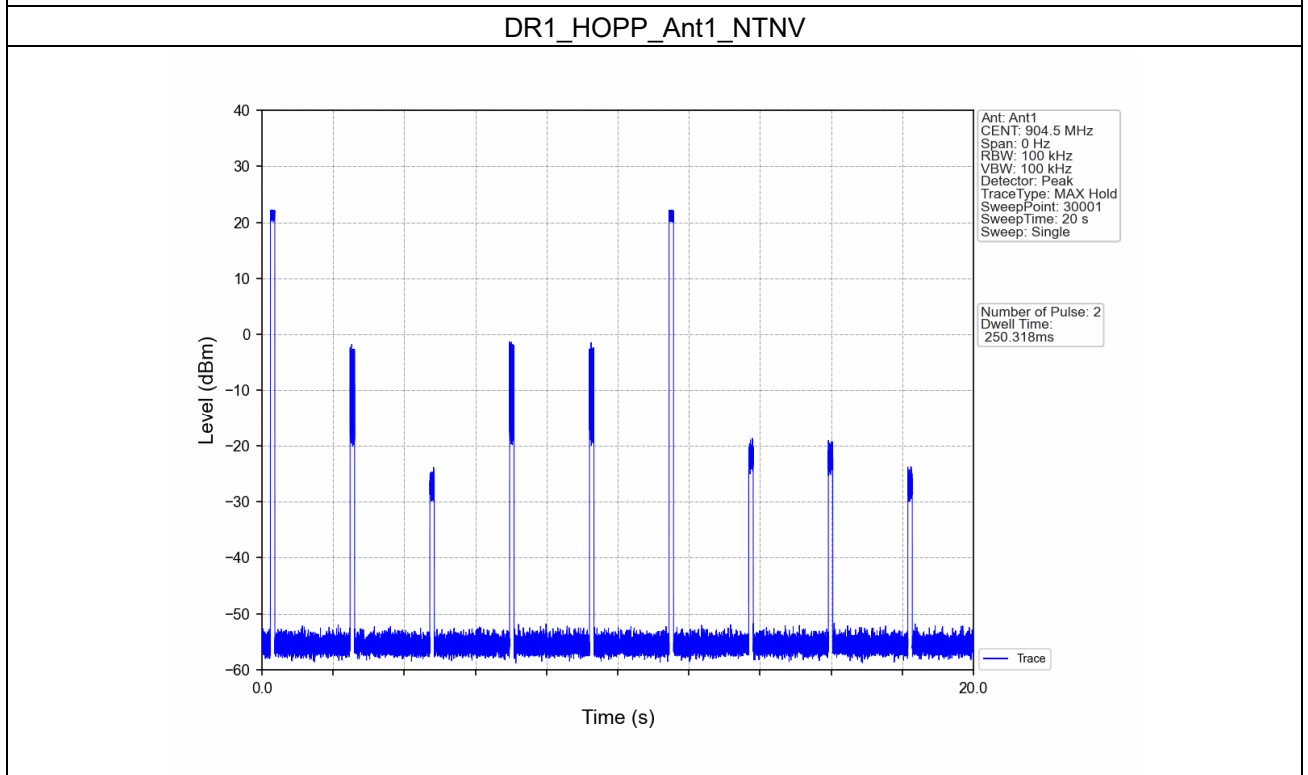
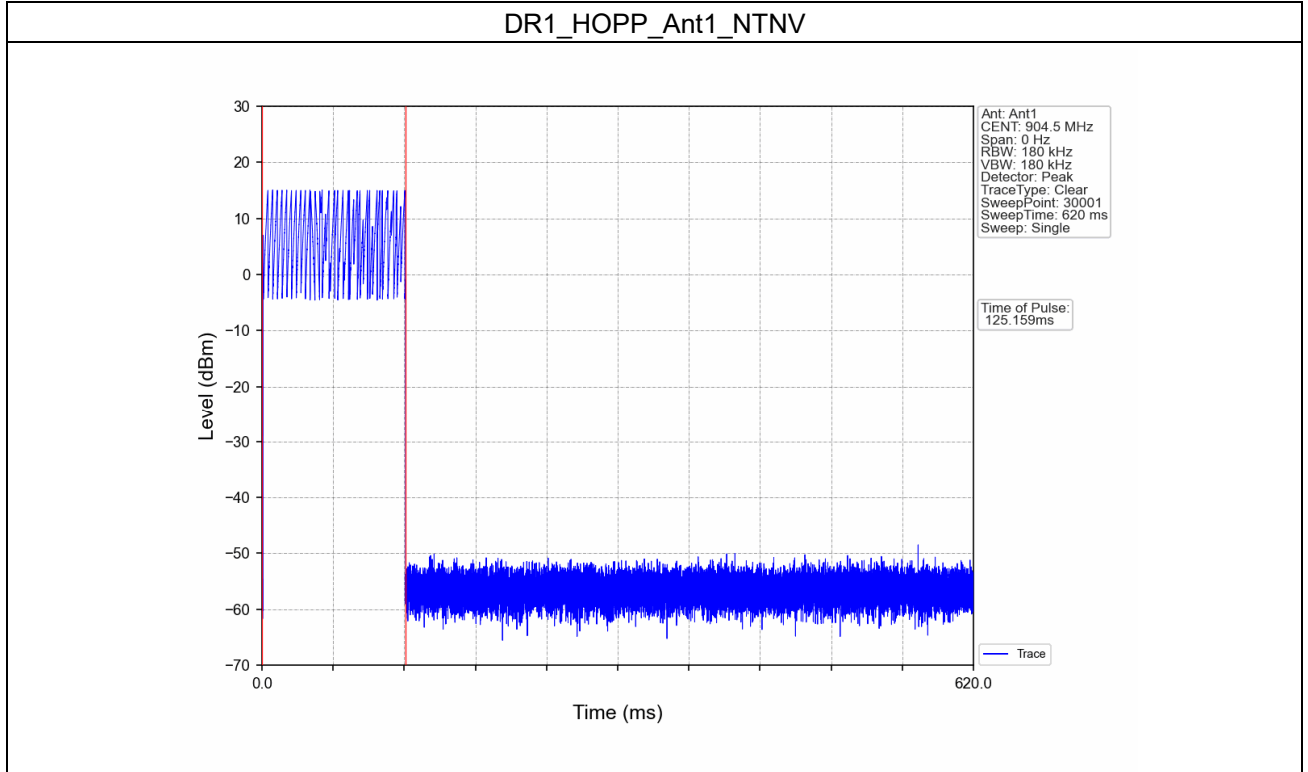
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5.1.2 Test Graph



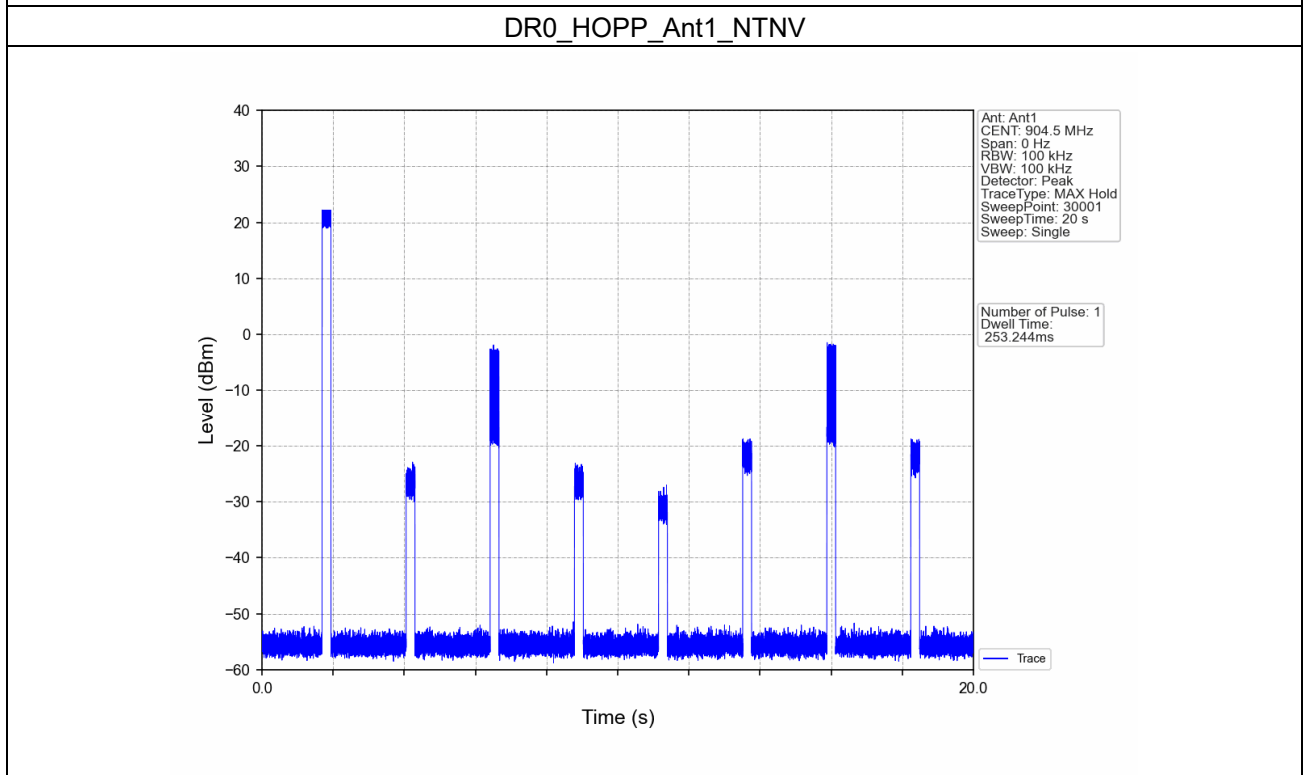
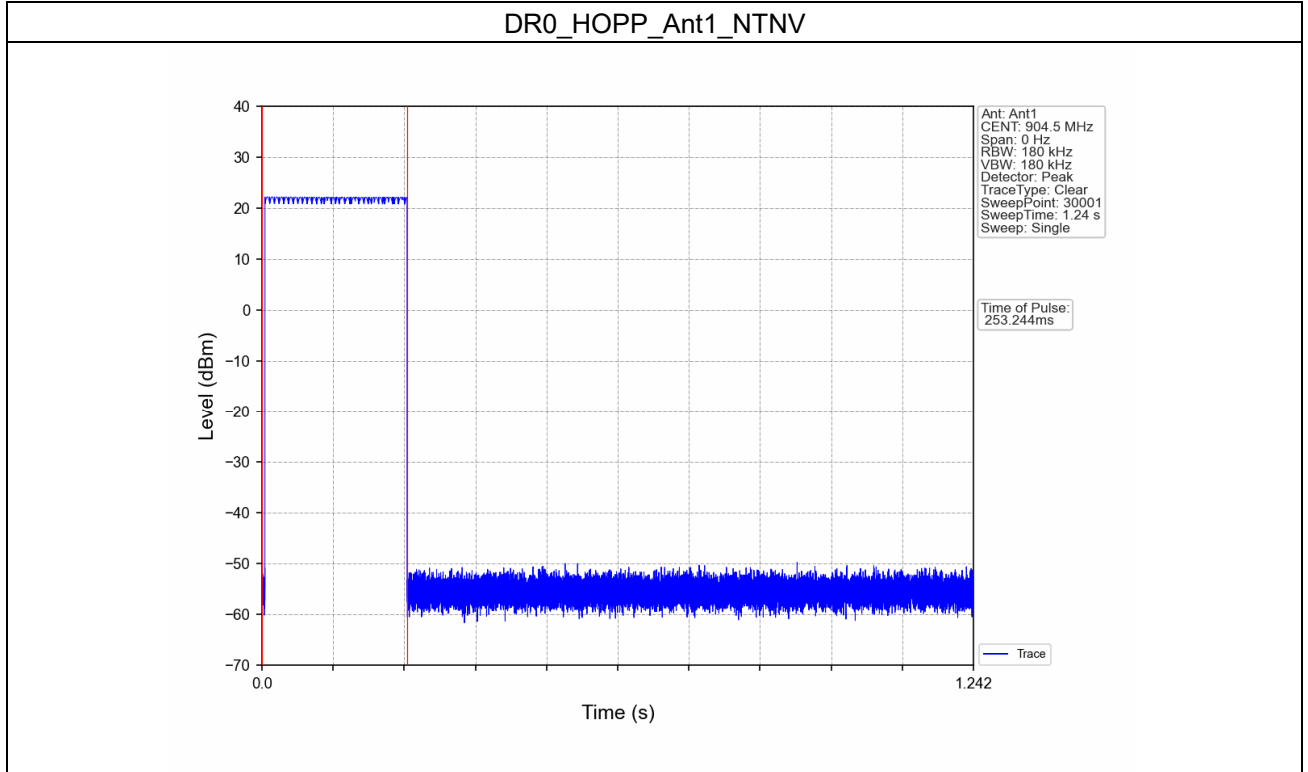
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

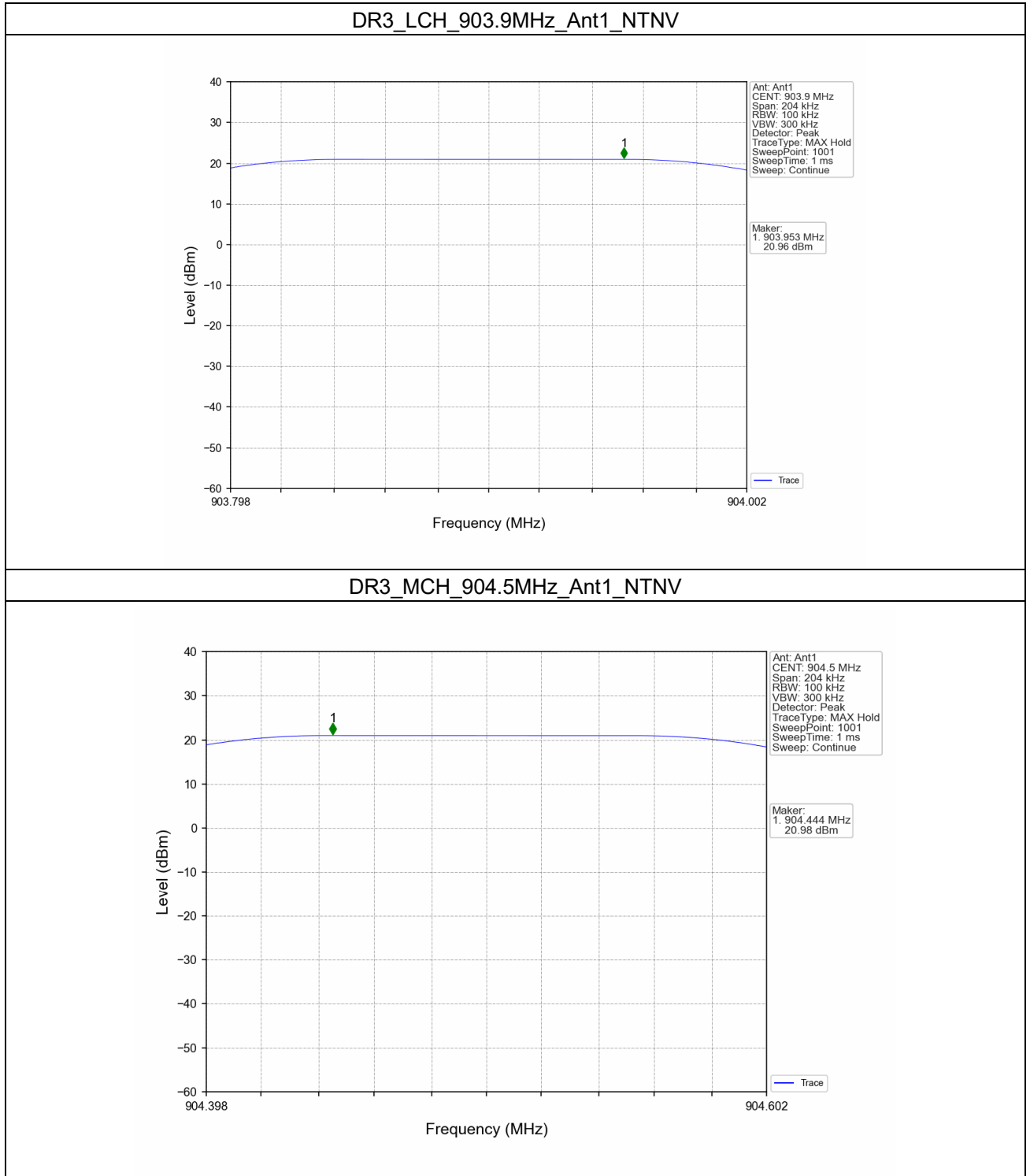
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
DR3	SISO	903.9	1	20.96
		904.5	1	20.98
		905.3	1	21.04
DR1	SISO	903.9	1	21.01
		904.5	1	21.01
		905.3	1	21.05
DR0	SISO	903.9	1	21.01
		904.5	1	21.01
		905.3	1	21.02



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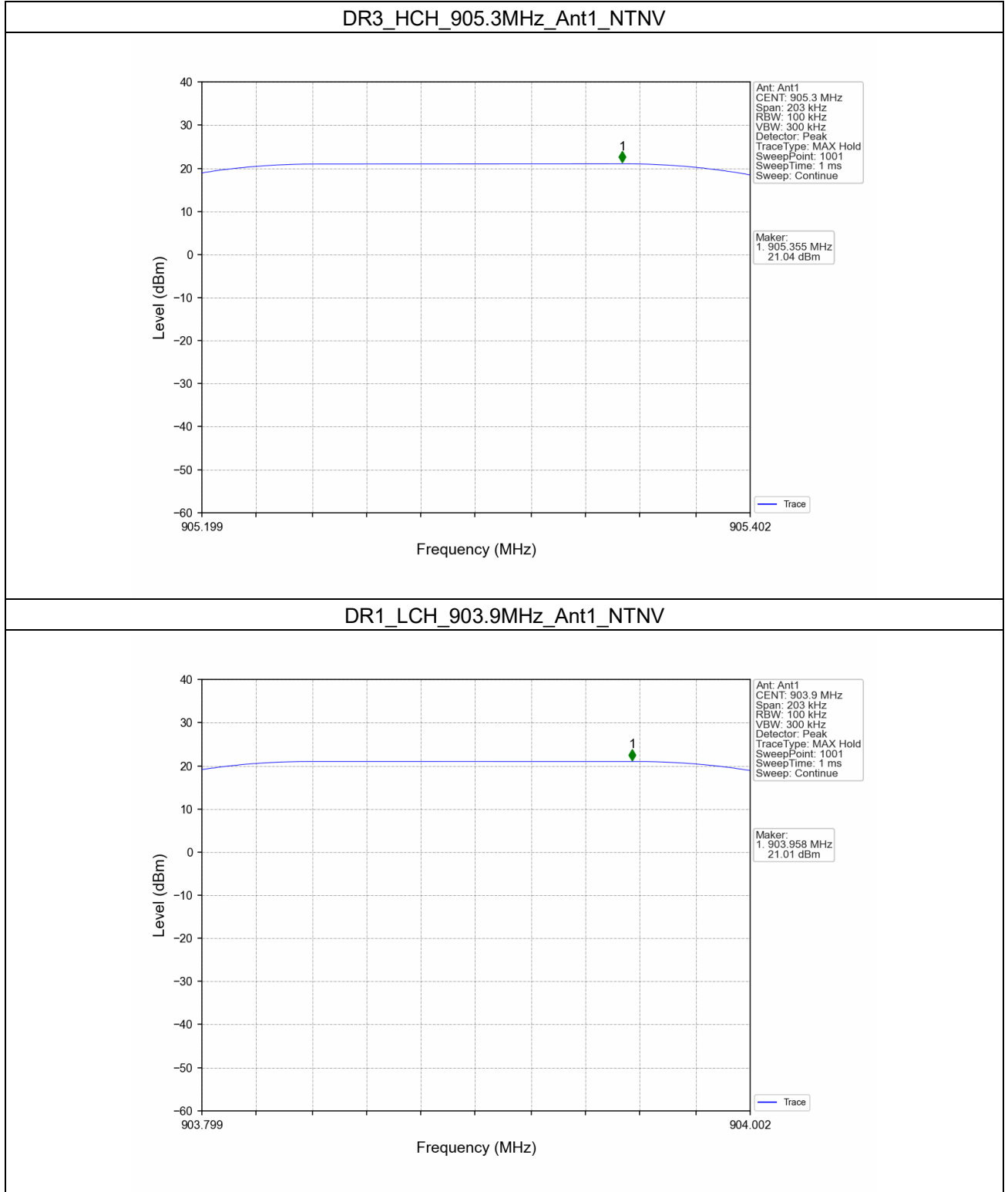
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6.1.2 Test Graph



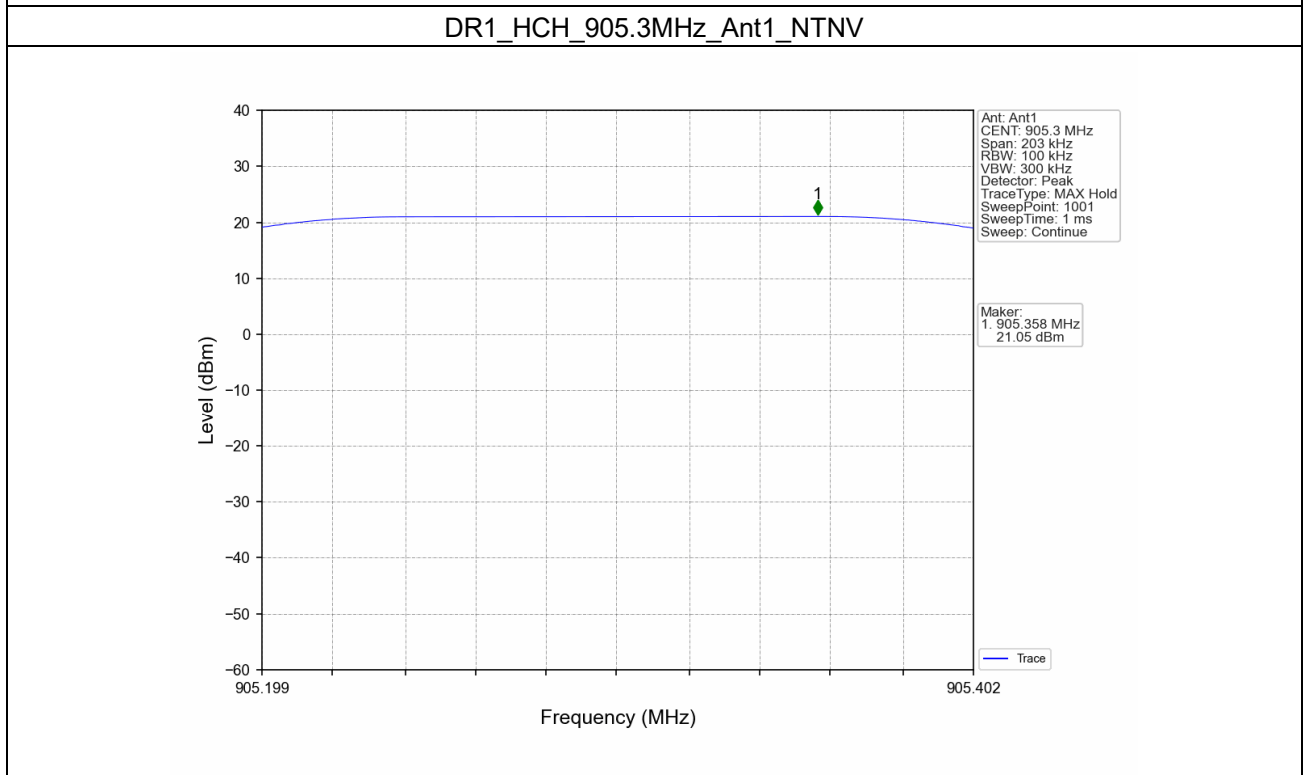
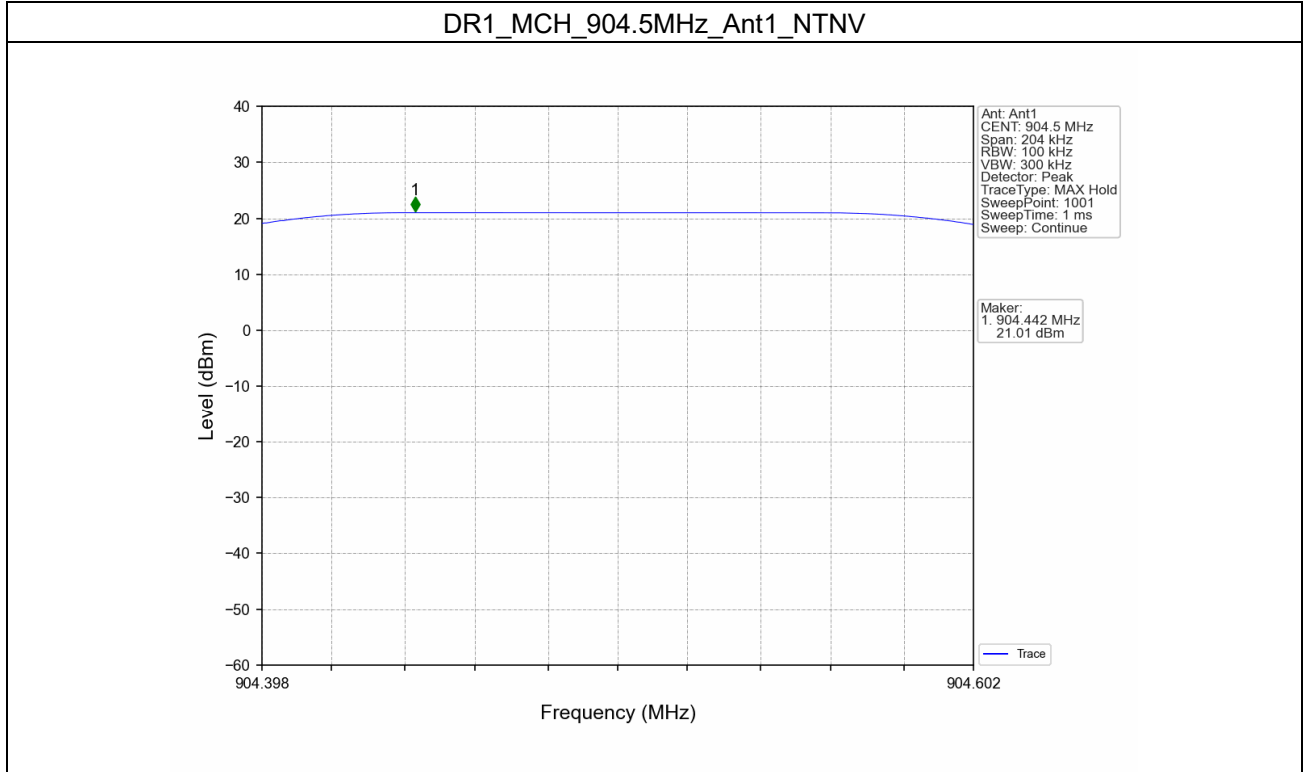
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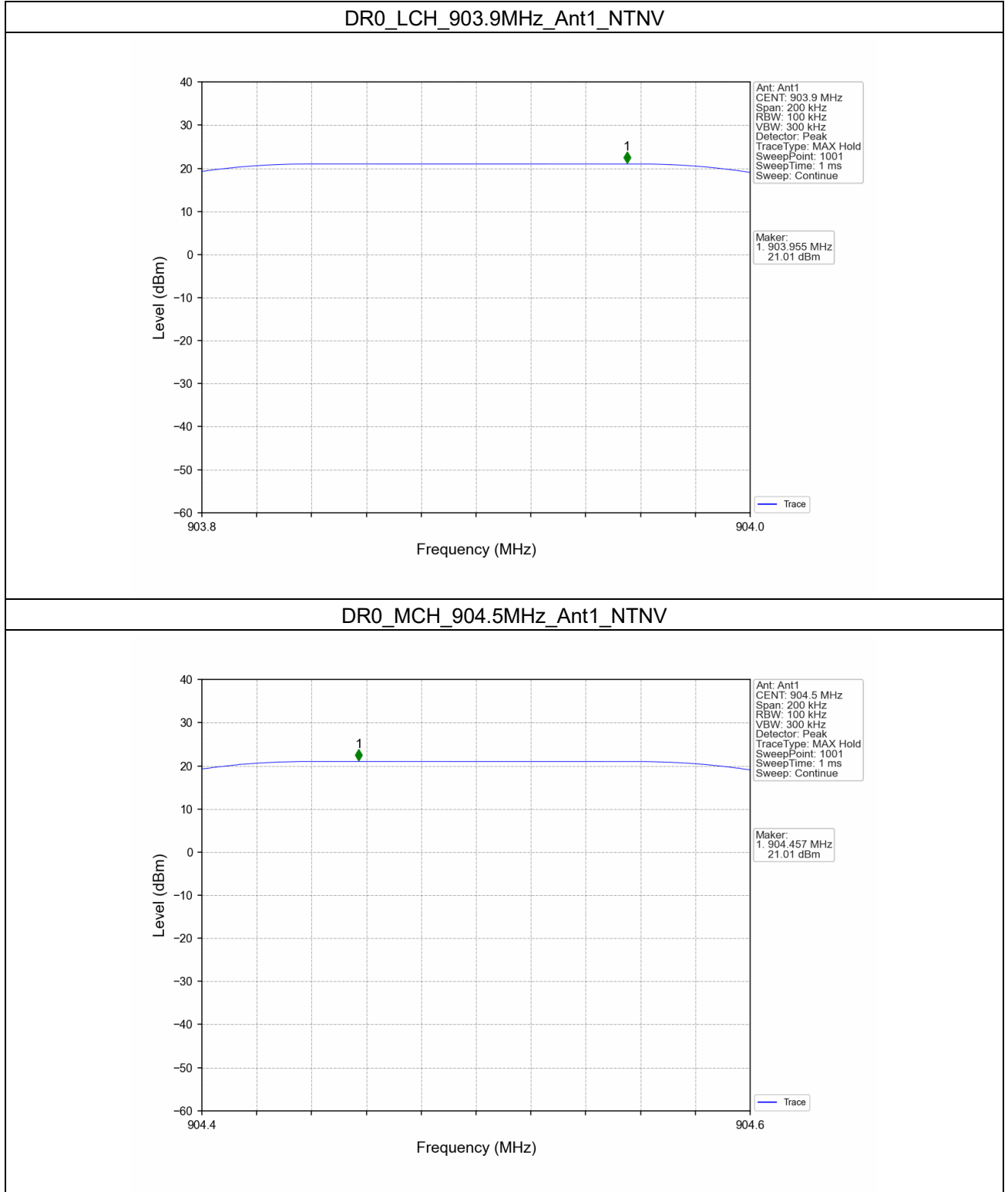
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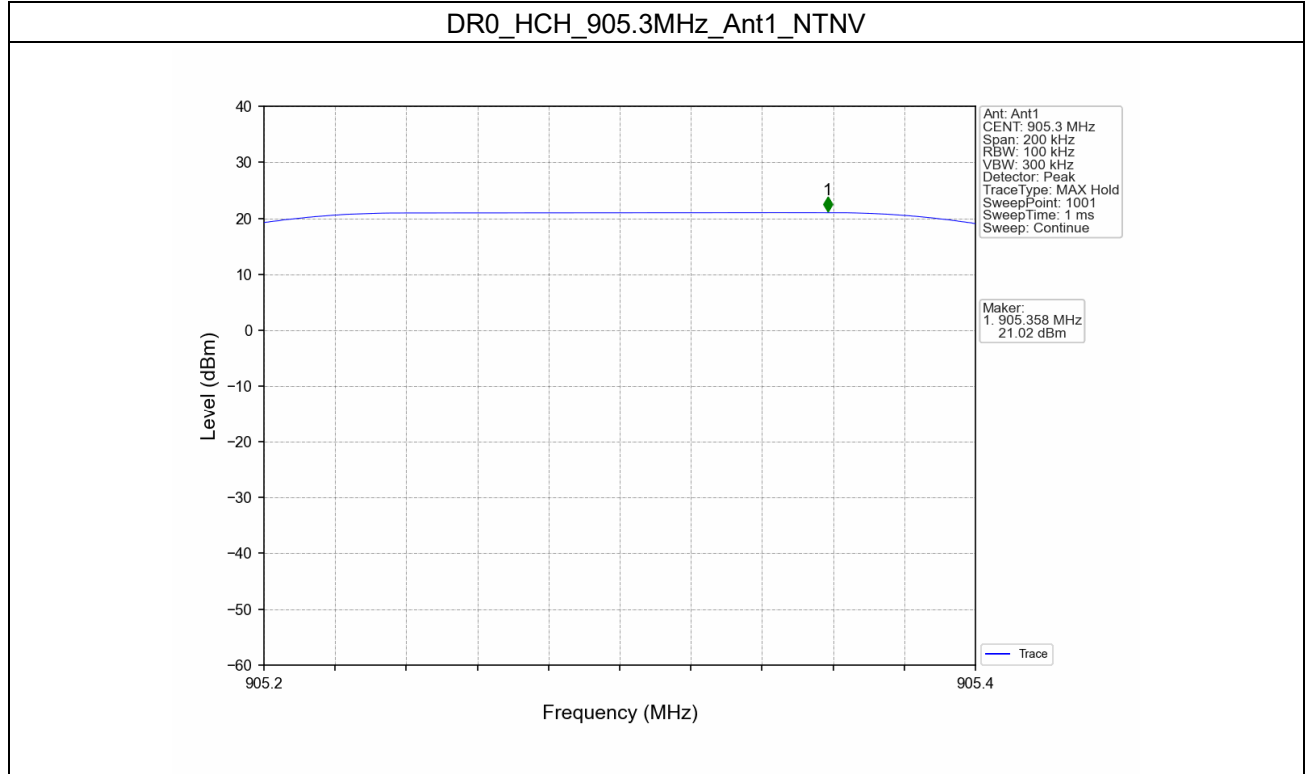
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6.2 CSE

6.2.1 Test Result

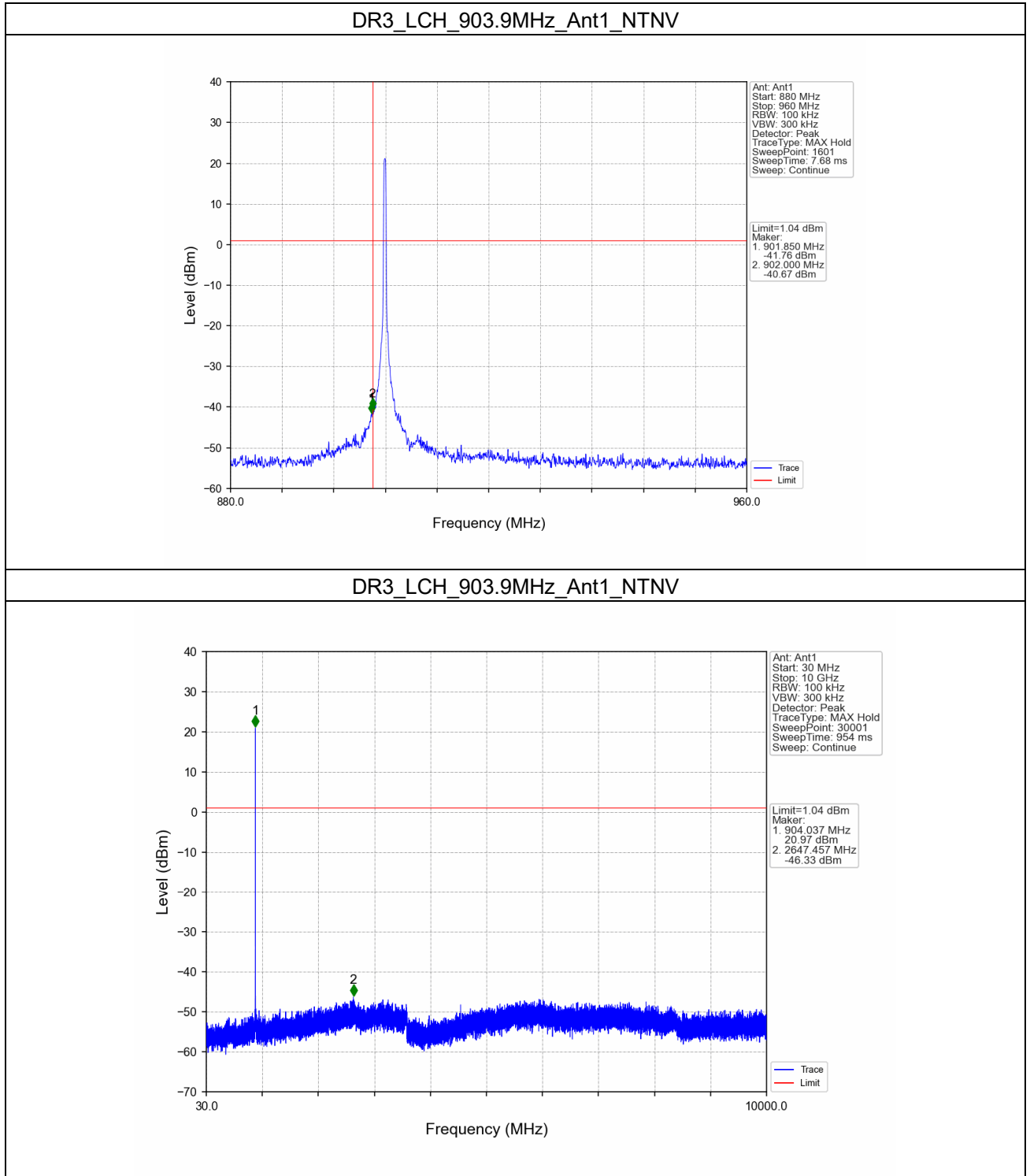
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
DR3	SISO	903.9	1	21.04	1.04	Pass
		904.5	1	21.04	1.04	Pass
		905.3	1	21.04	1.04	Pass
		HOPP	1	21.04	1.04	Pass
DR1	SISO	903.9	1	21.05	1.05	Pass
		904.5	1	21.05	1.05	Pass
		905.3	1	21.05	1.05	Pass
		HOPP	1	21.05	1.05	Pass
DR0	SISO	903.9	1	21.02	1.02	Pass
		904.5	1	21.02	1.02	Pass
		905.3	1	21.02	1.02	Pass
		HOPP	1	21.02	1.02	Pass



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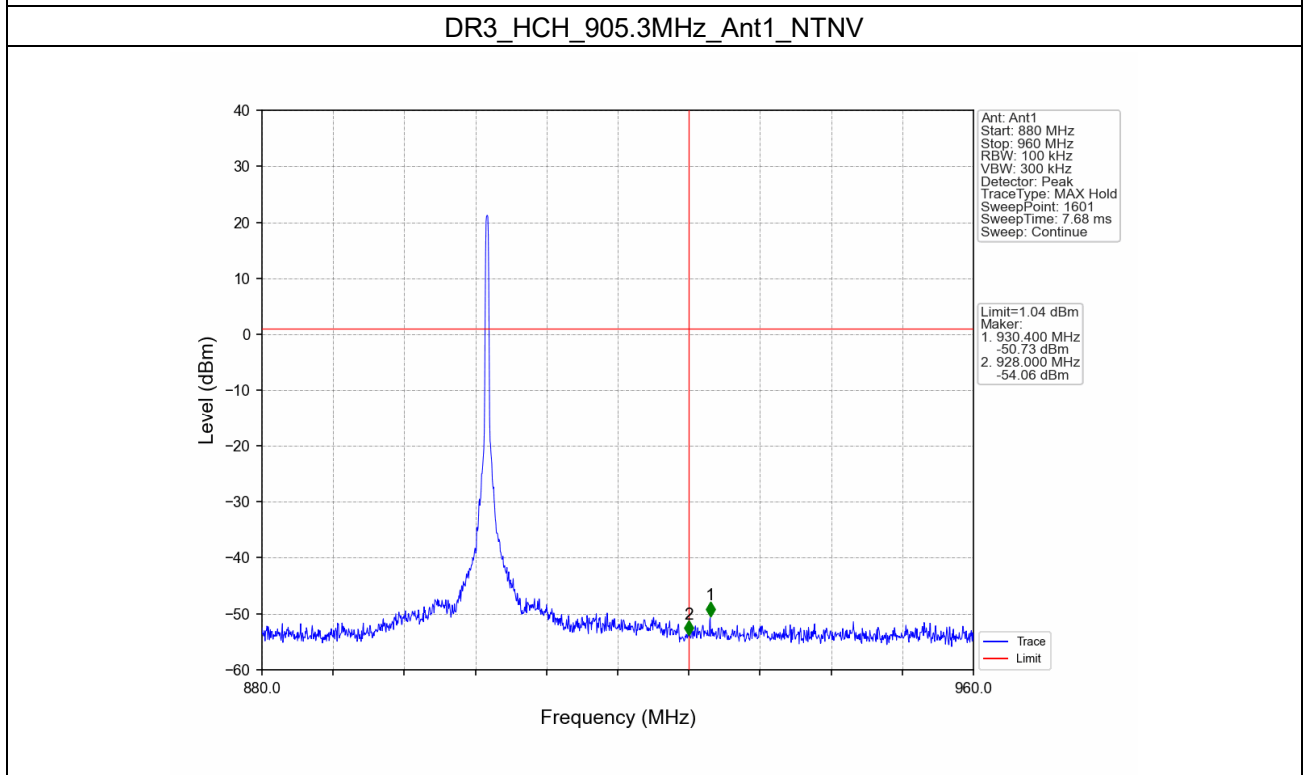
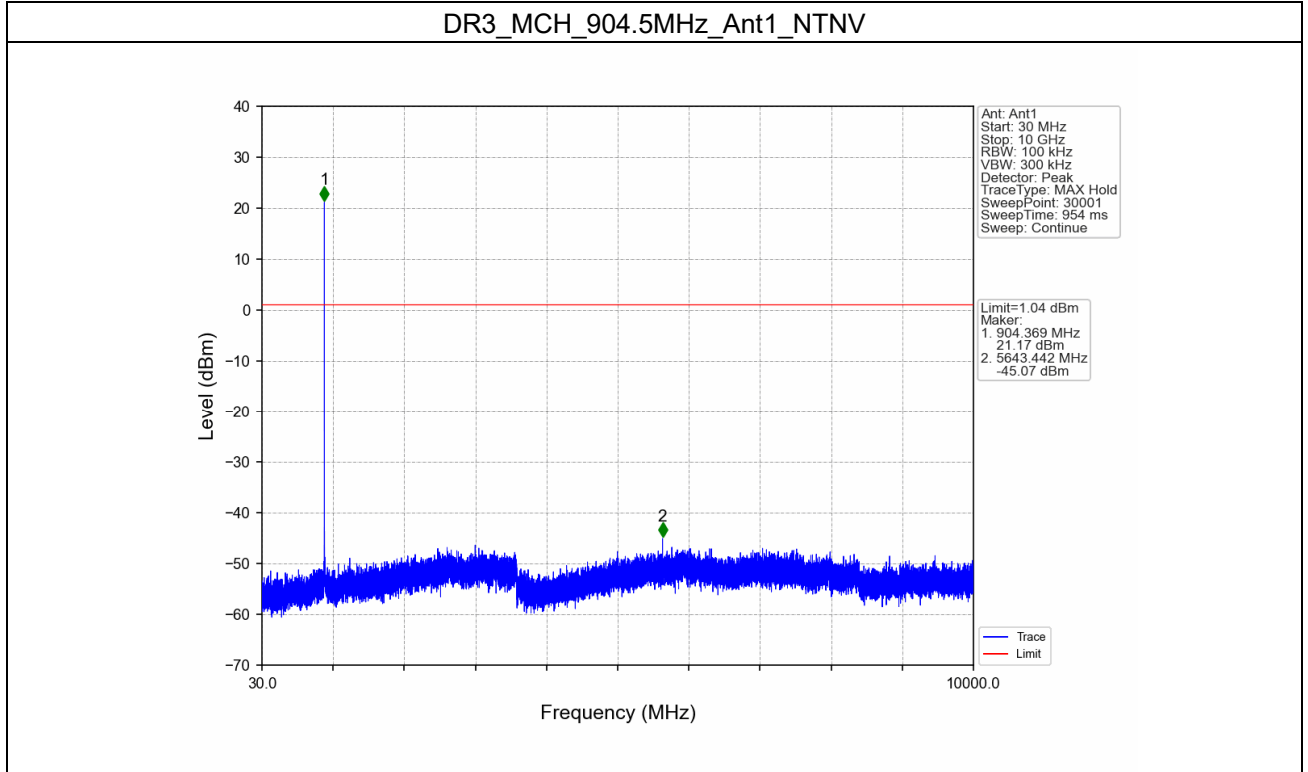
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6.2.2 Test Graph



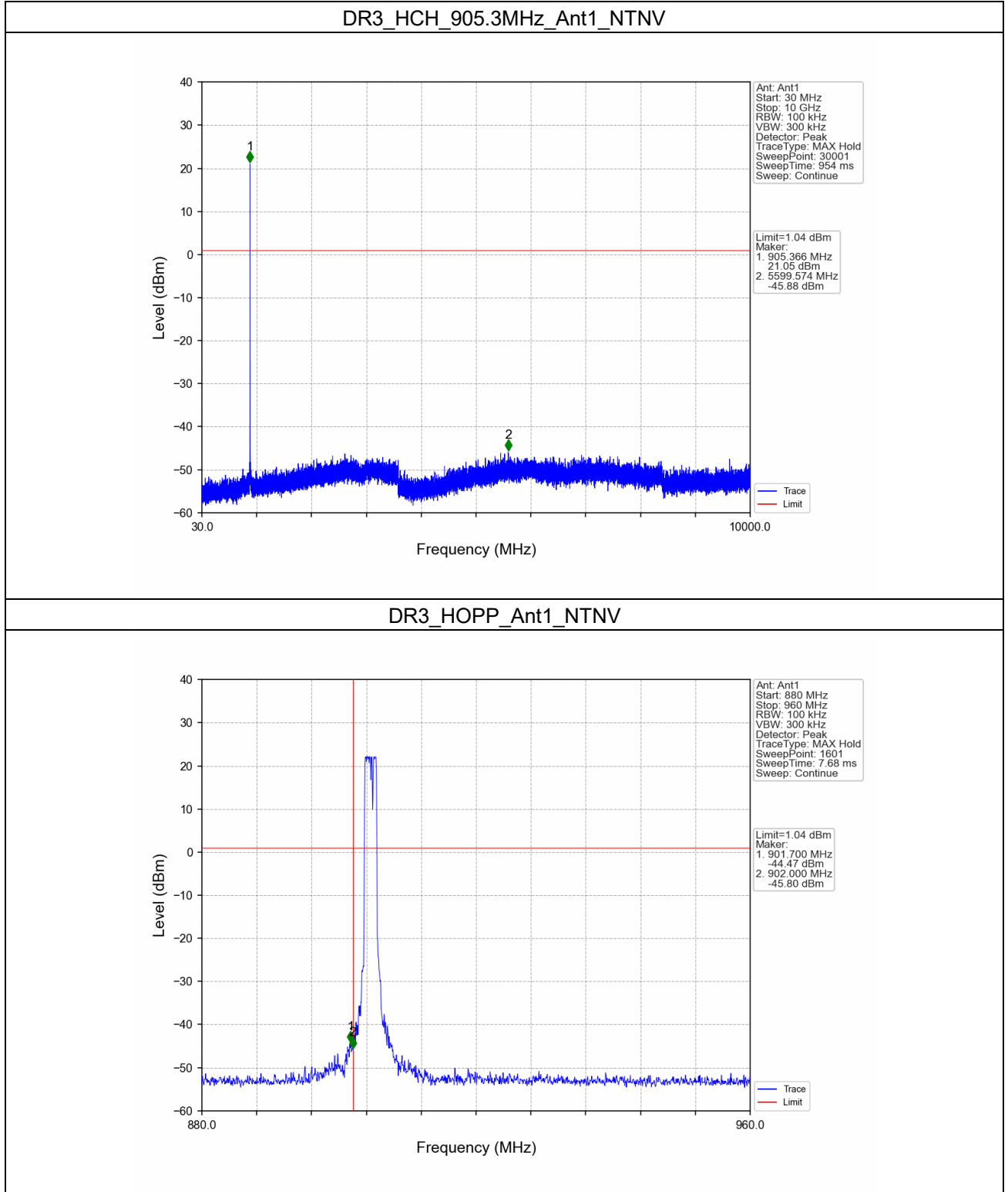
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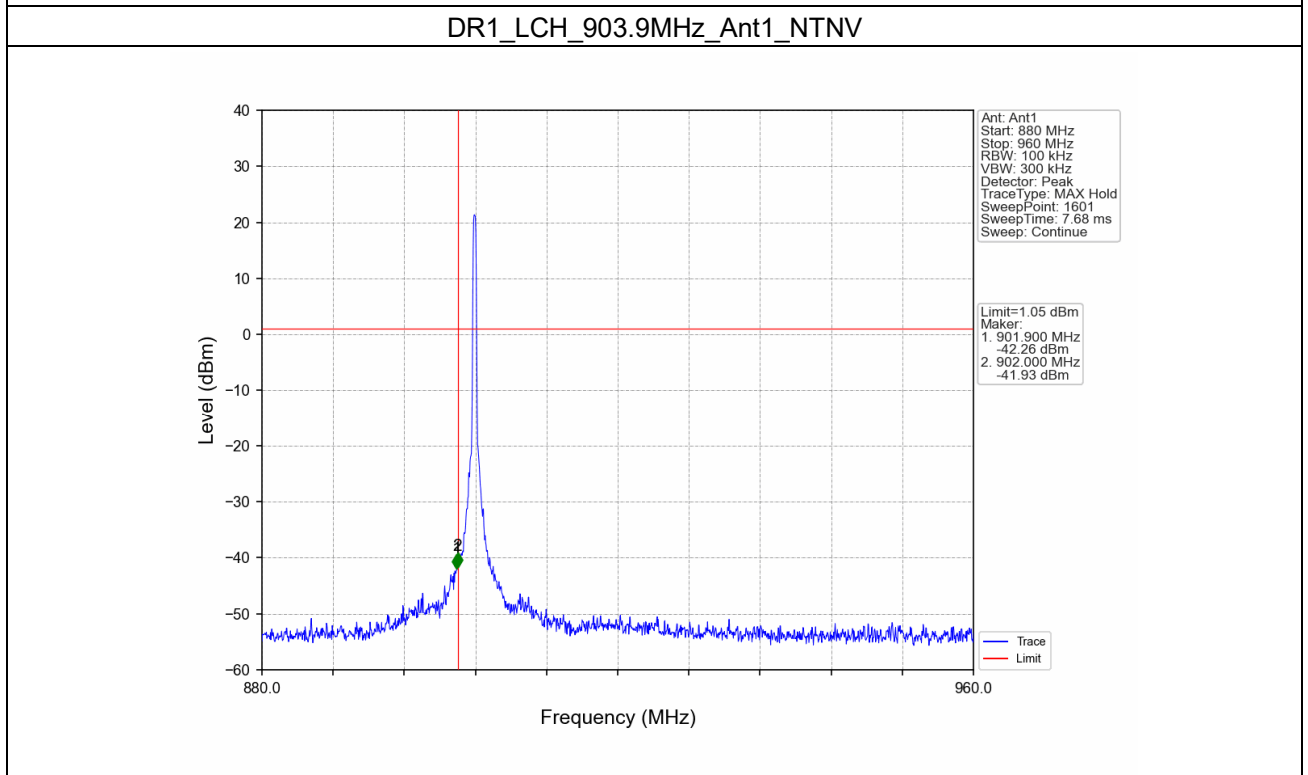
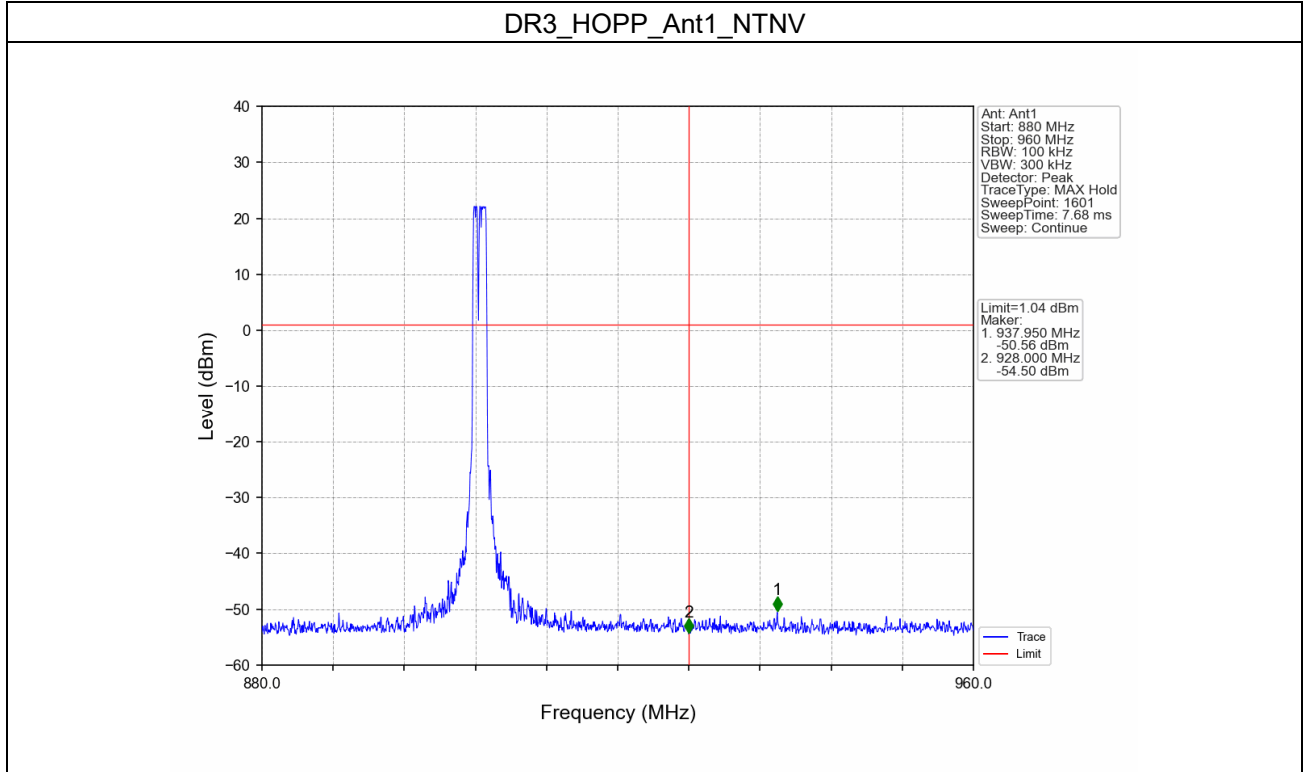
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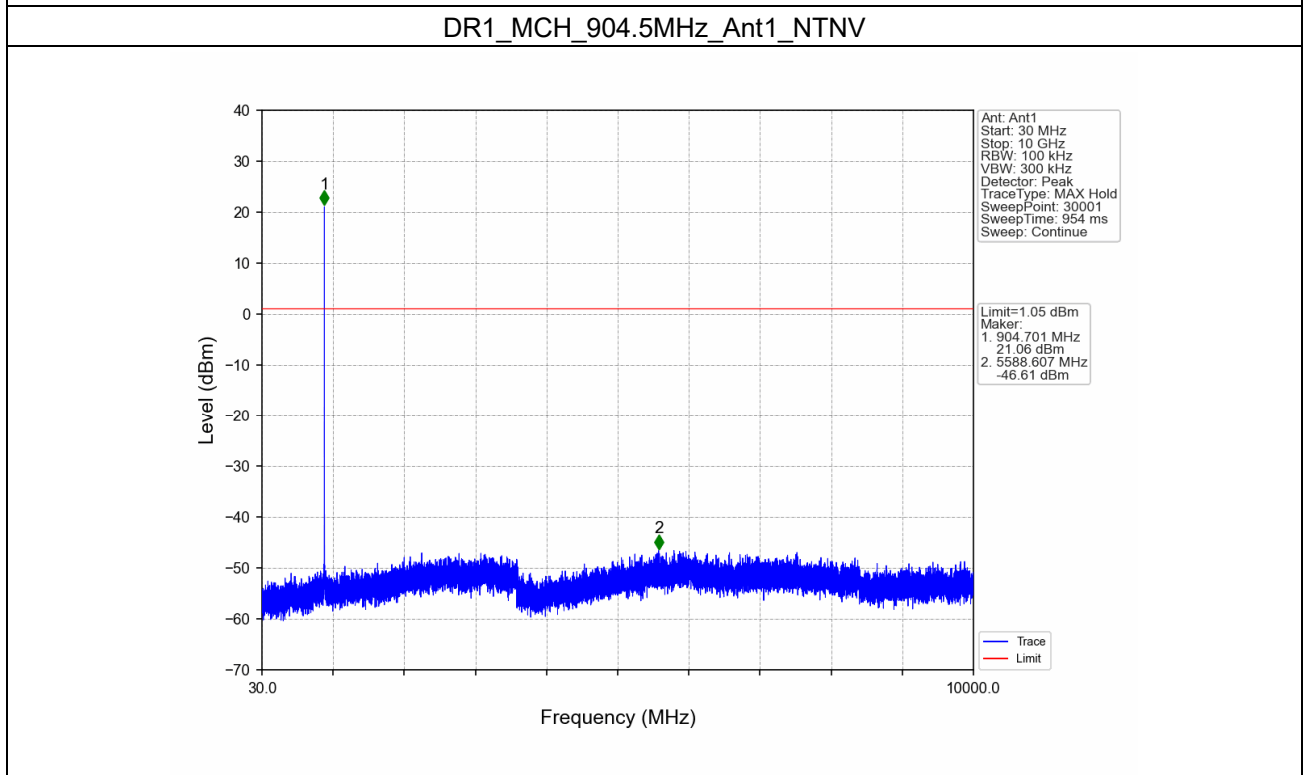
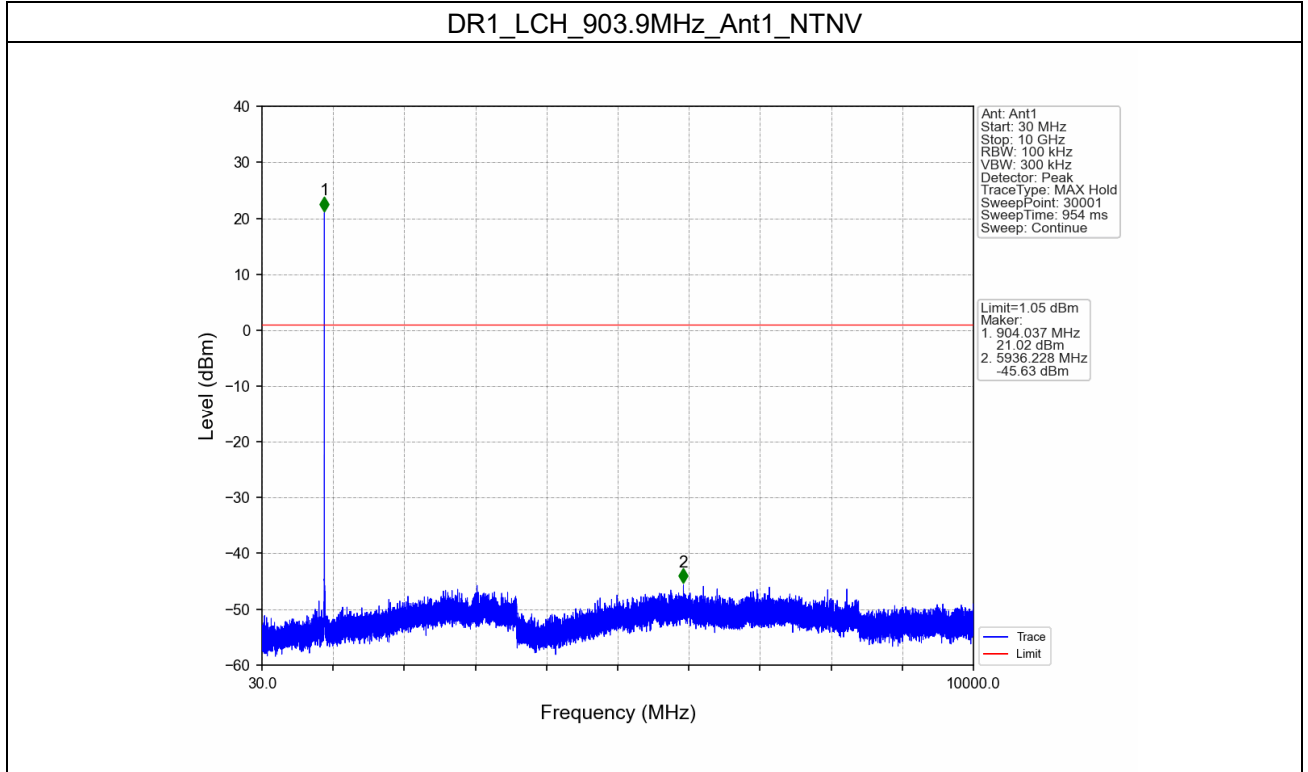
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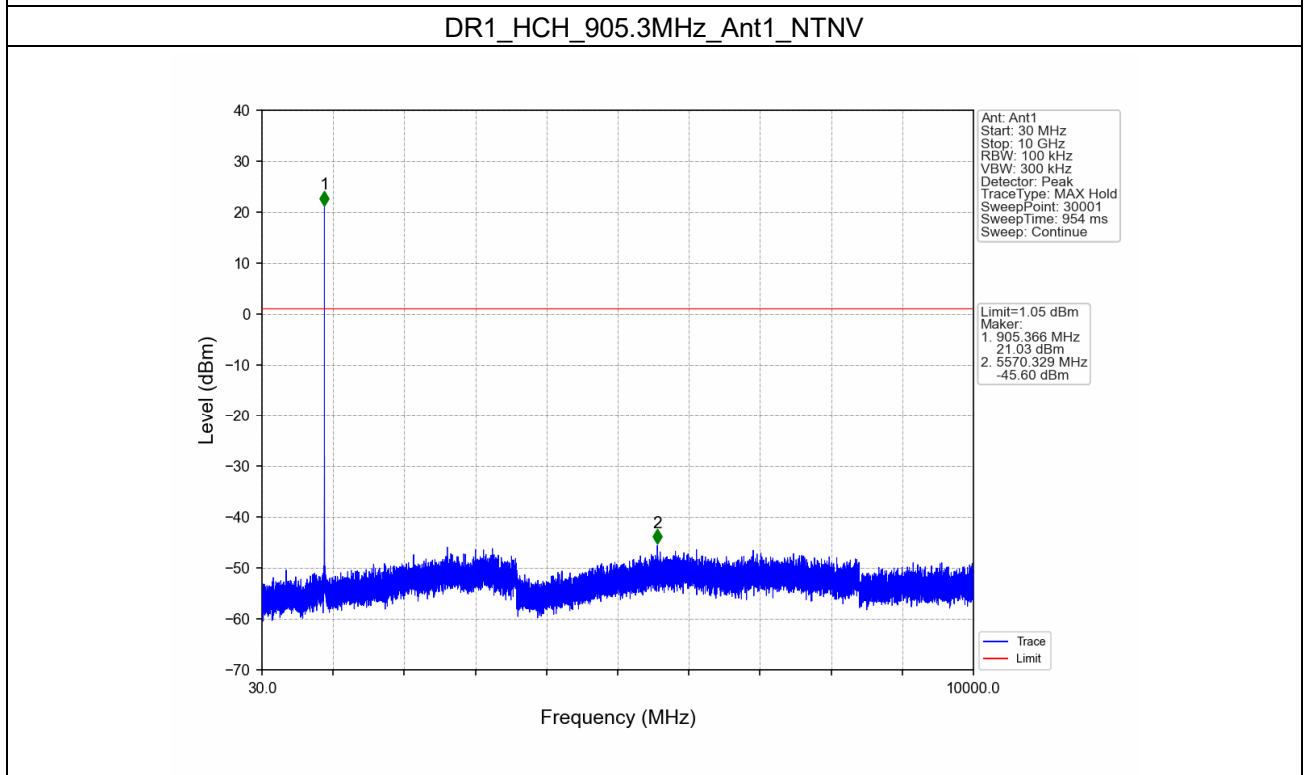
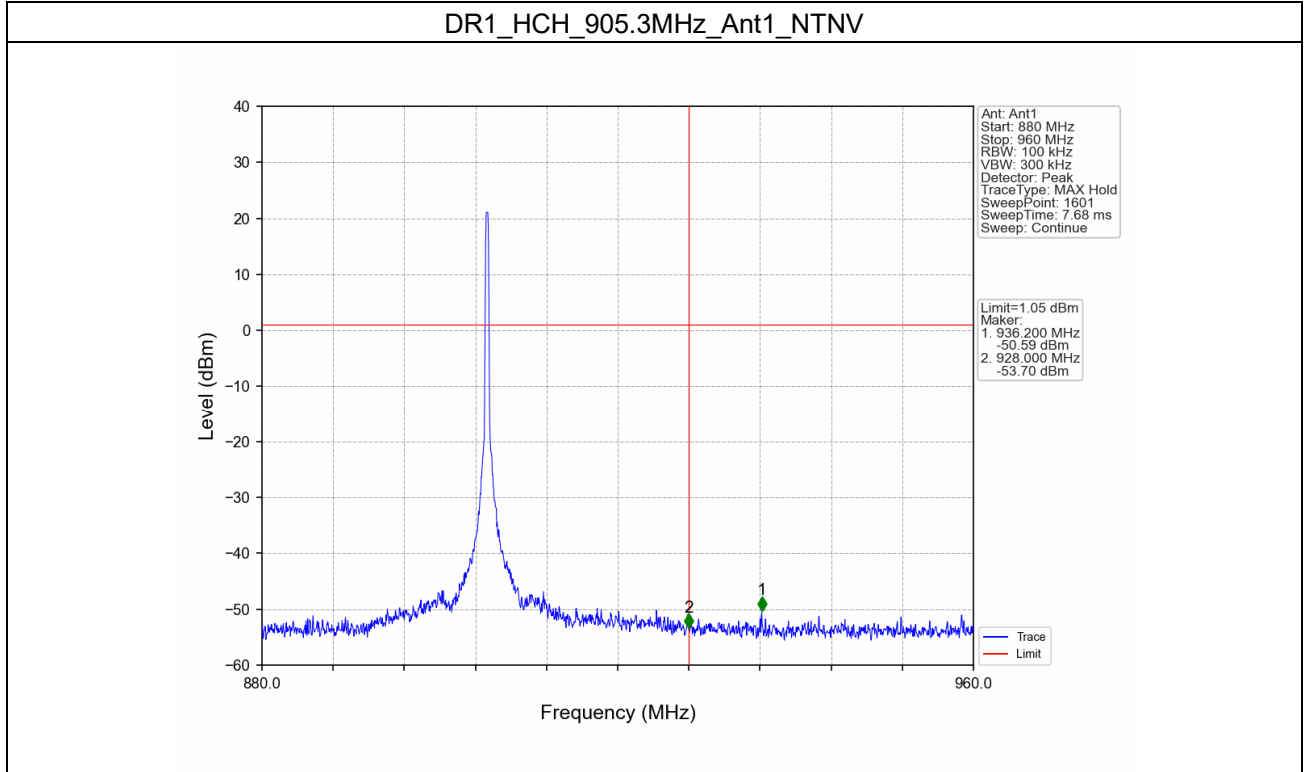
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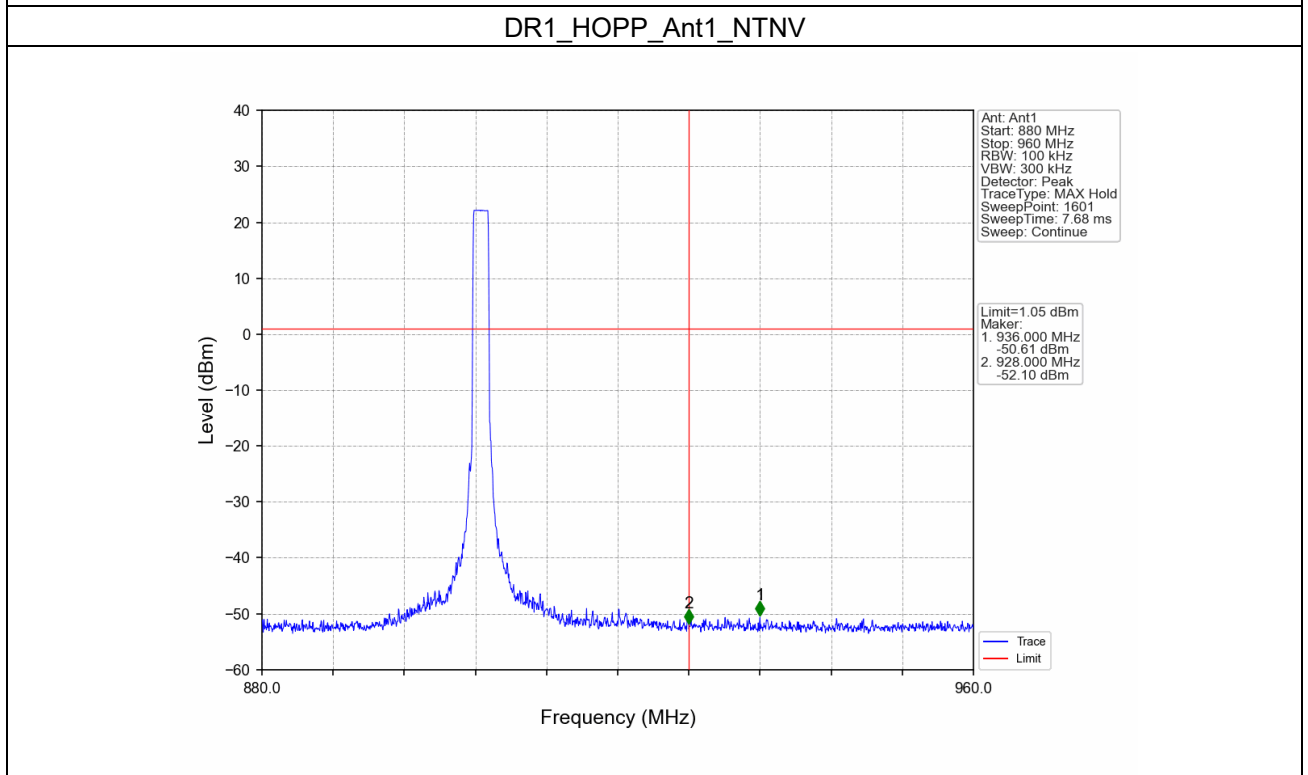
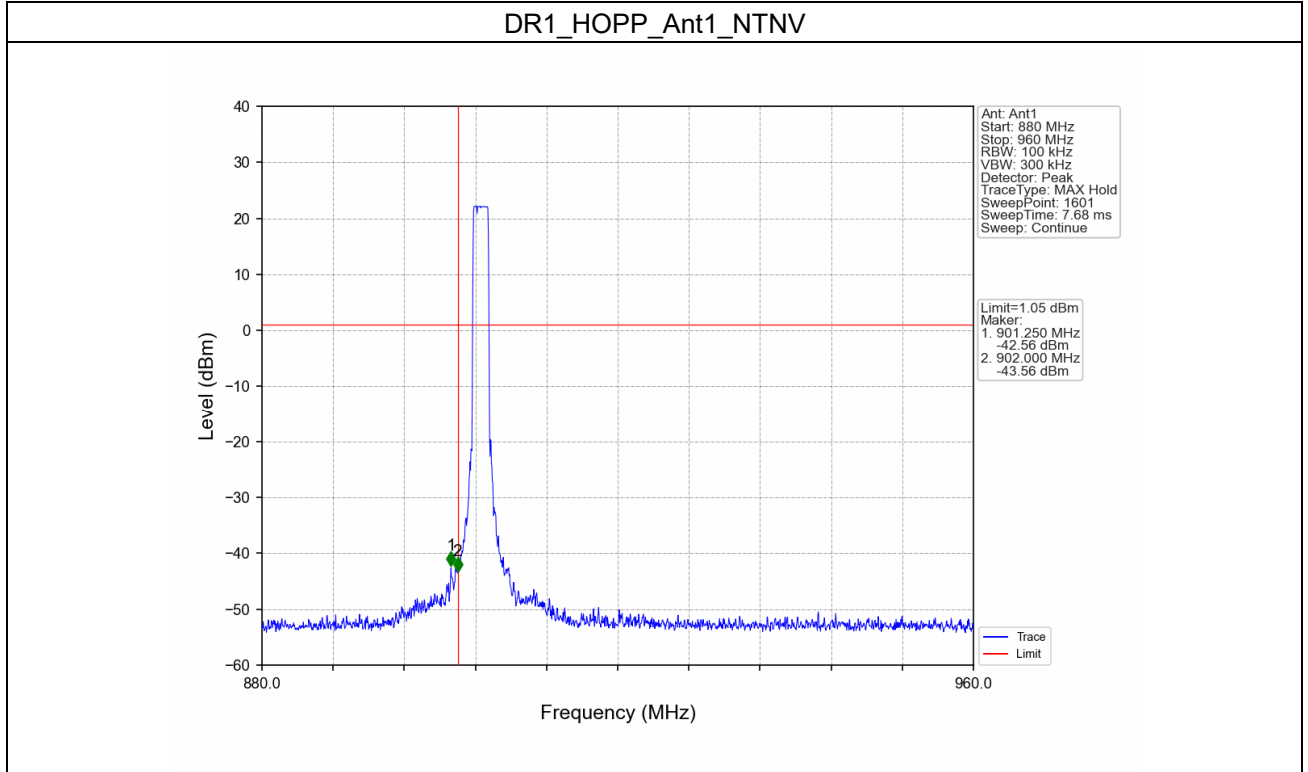
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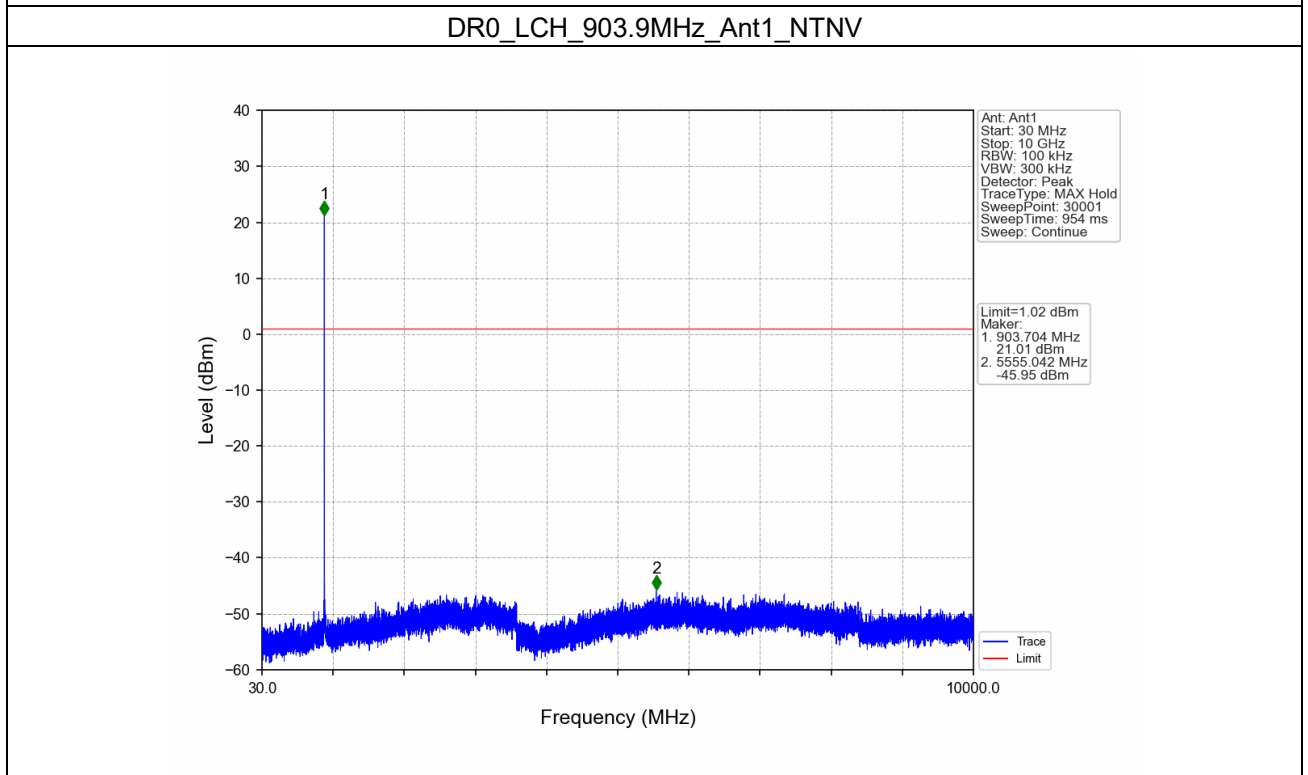
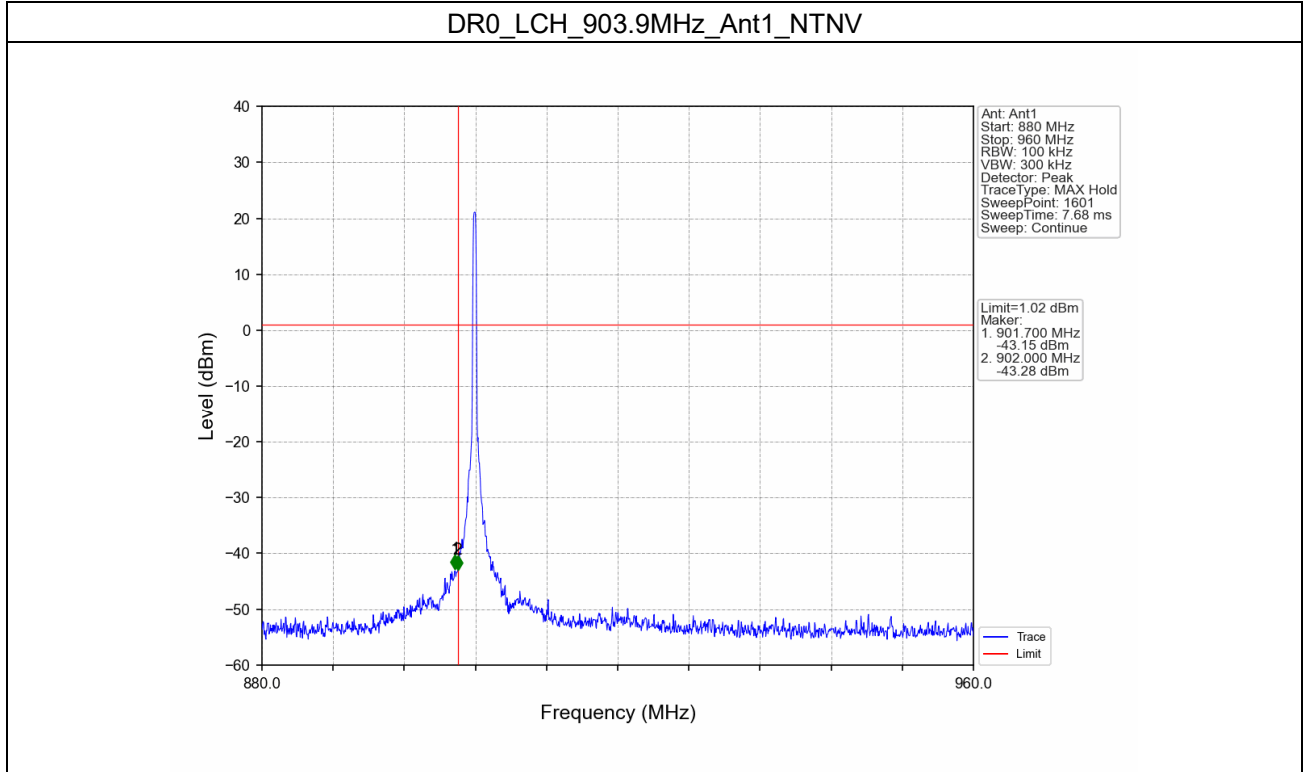
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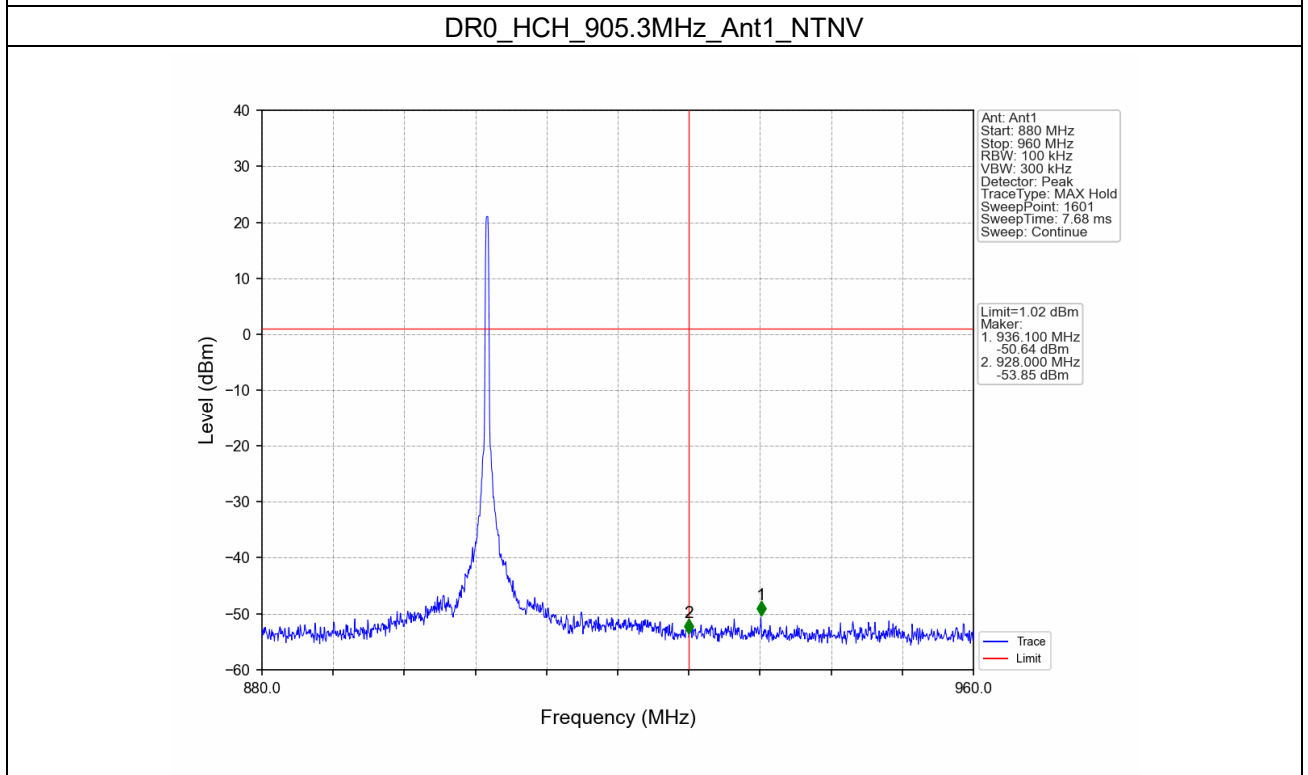
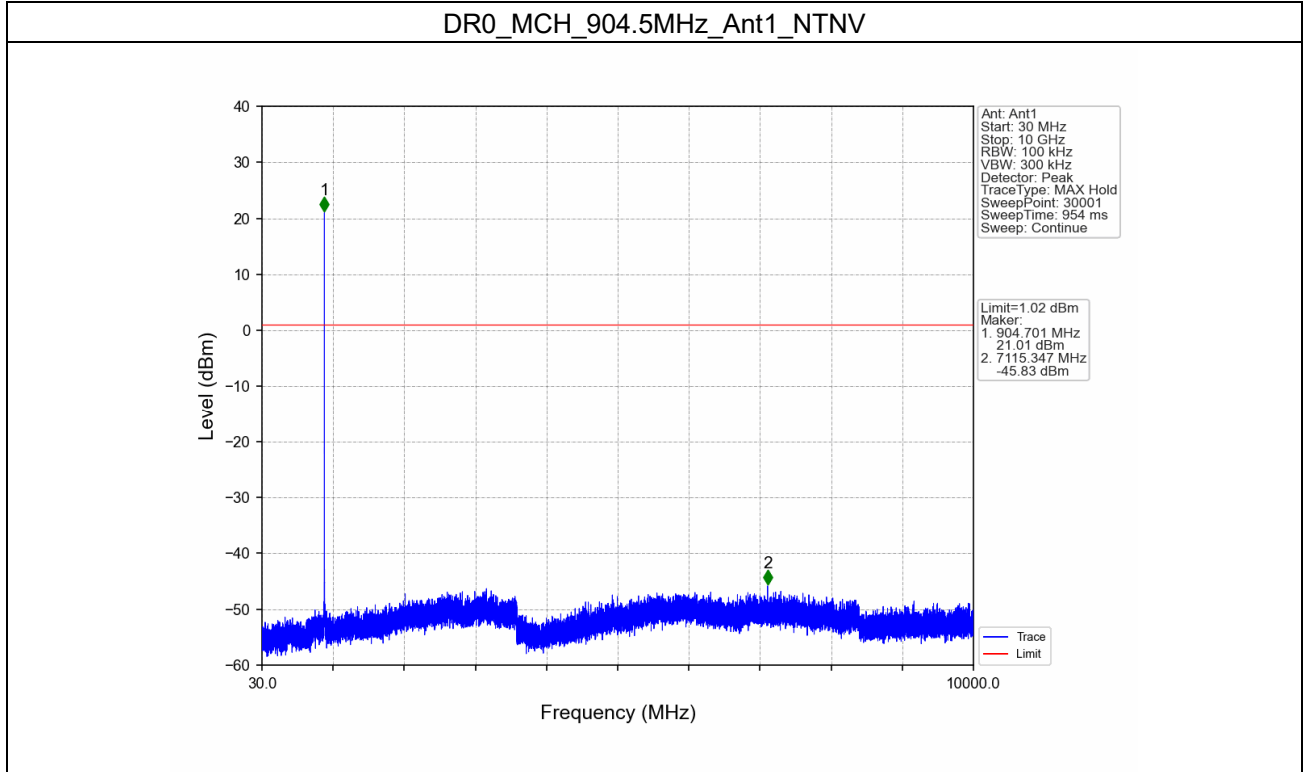
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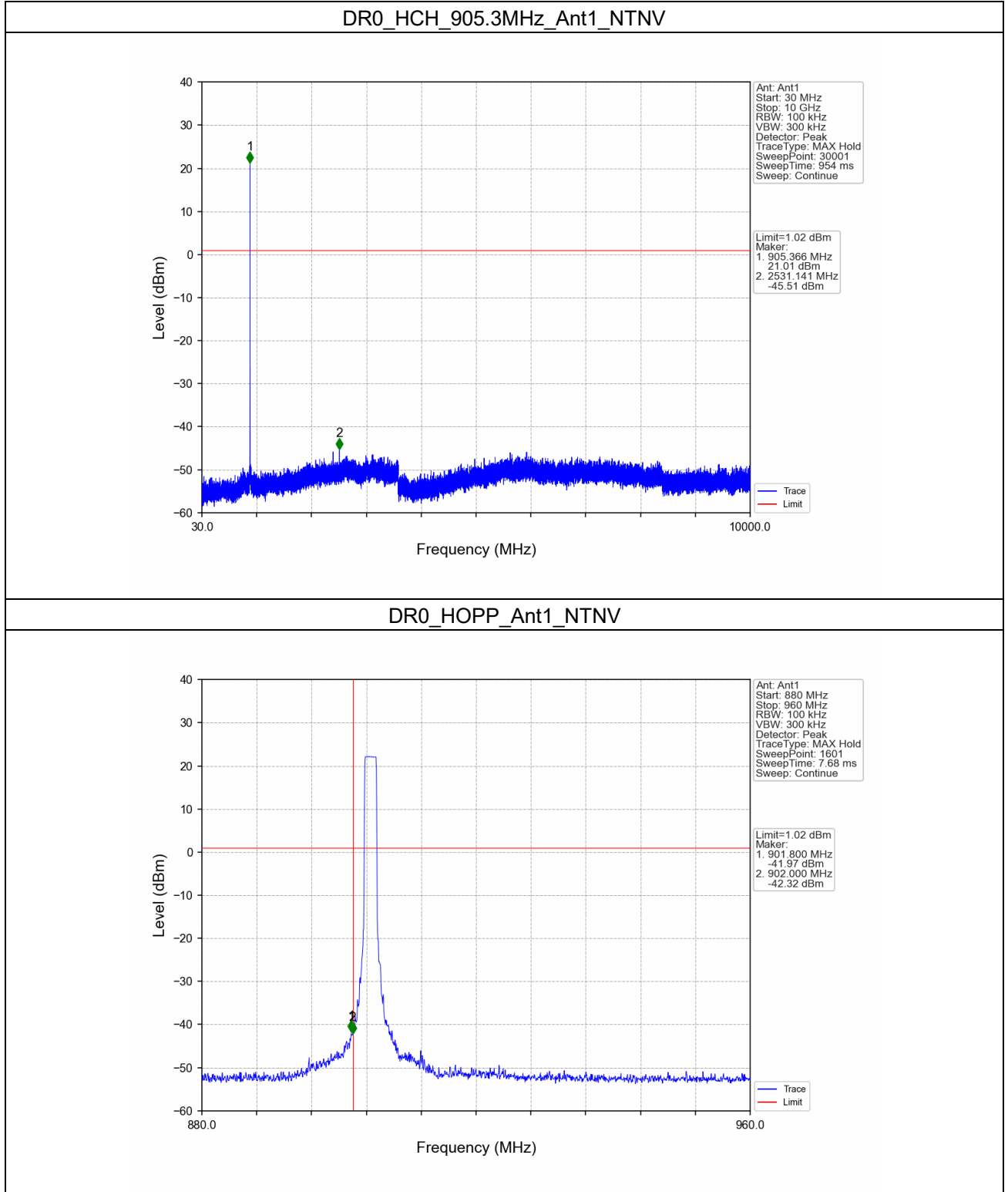
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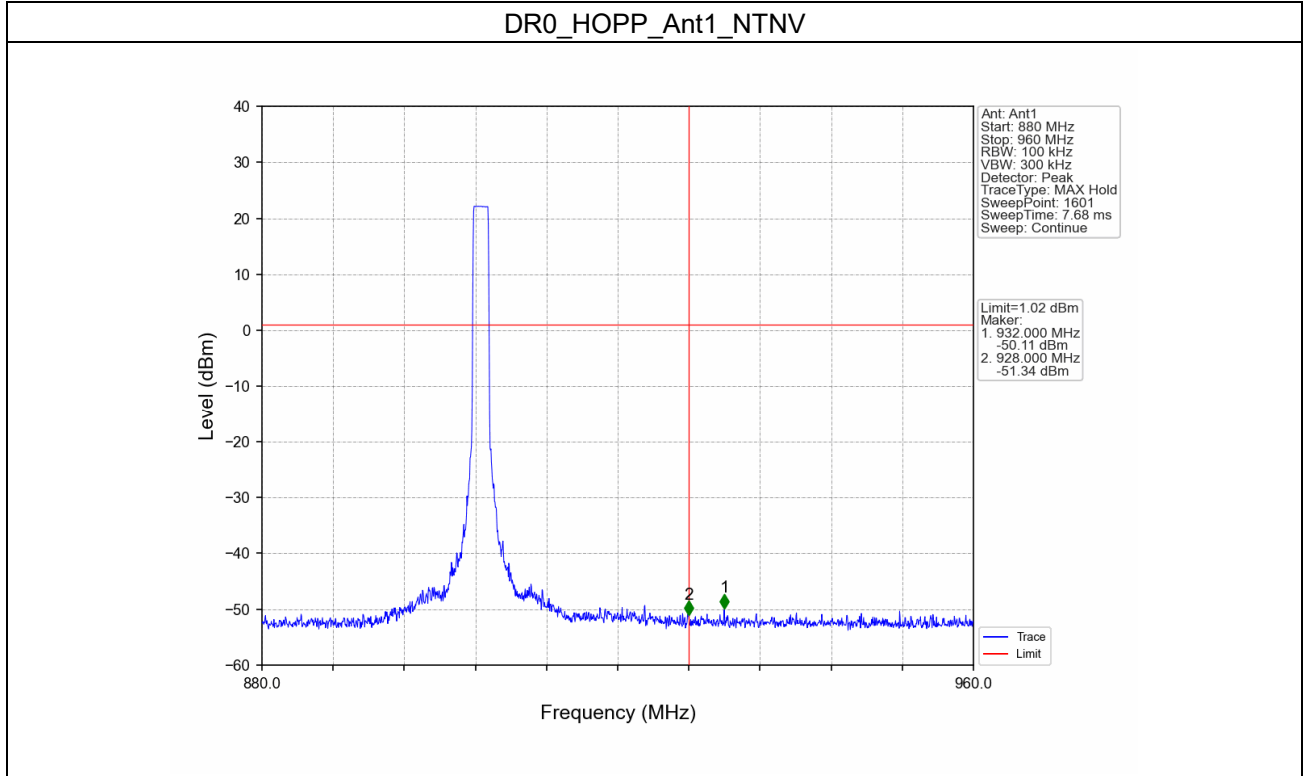
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7. Maximum Power Spectral Density

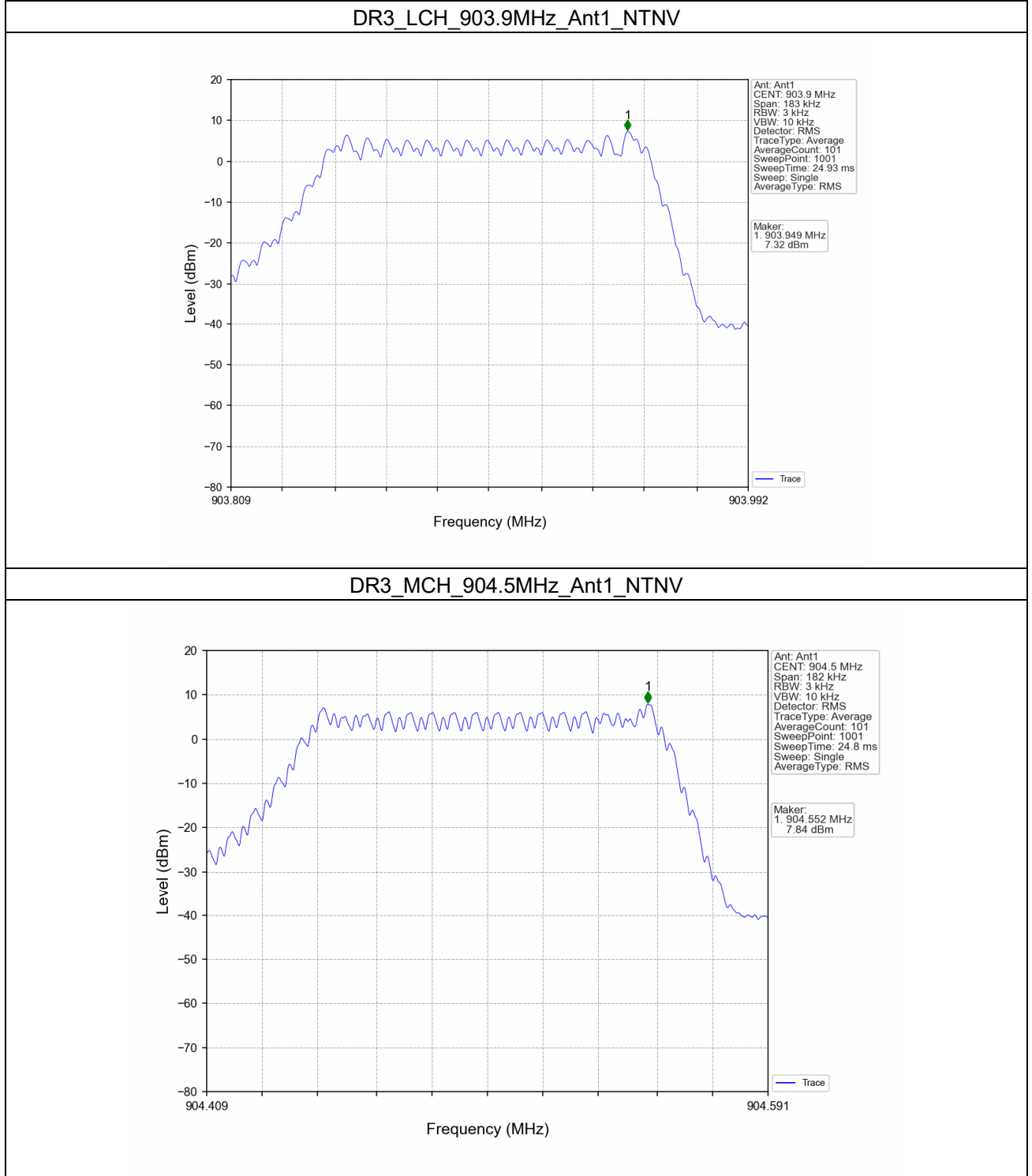
7.1 PSD

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
DR3	SISO	903.9	7.32	<=8	Pass
		904.5	7.84	<=8	Pass
		905.3	6.72	<=8	Pass
DR1	SISO	903.9	7.04	<=8	Pass
		904.5	7.47	<=8	Pass
		905.3	6.96	<=8	Pass
DR0	SISO	903.9	7.81	<=8	Pass
		904.5	7.69	<=8	Pass
		905.3	7.22	<=8	Pass

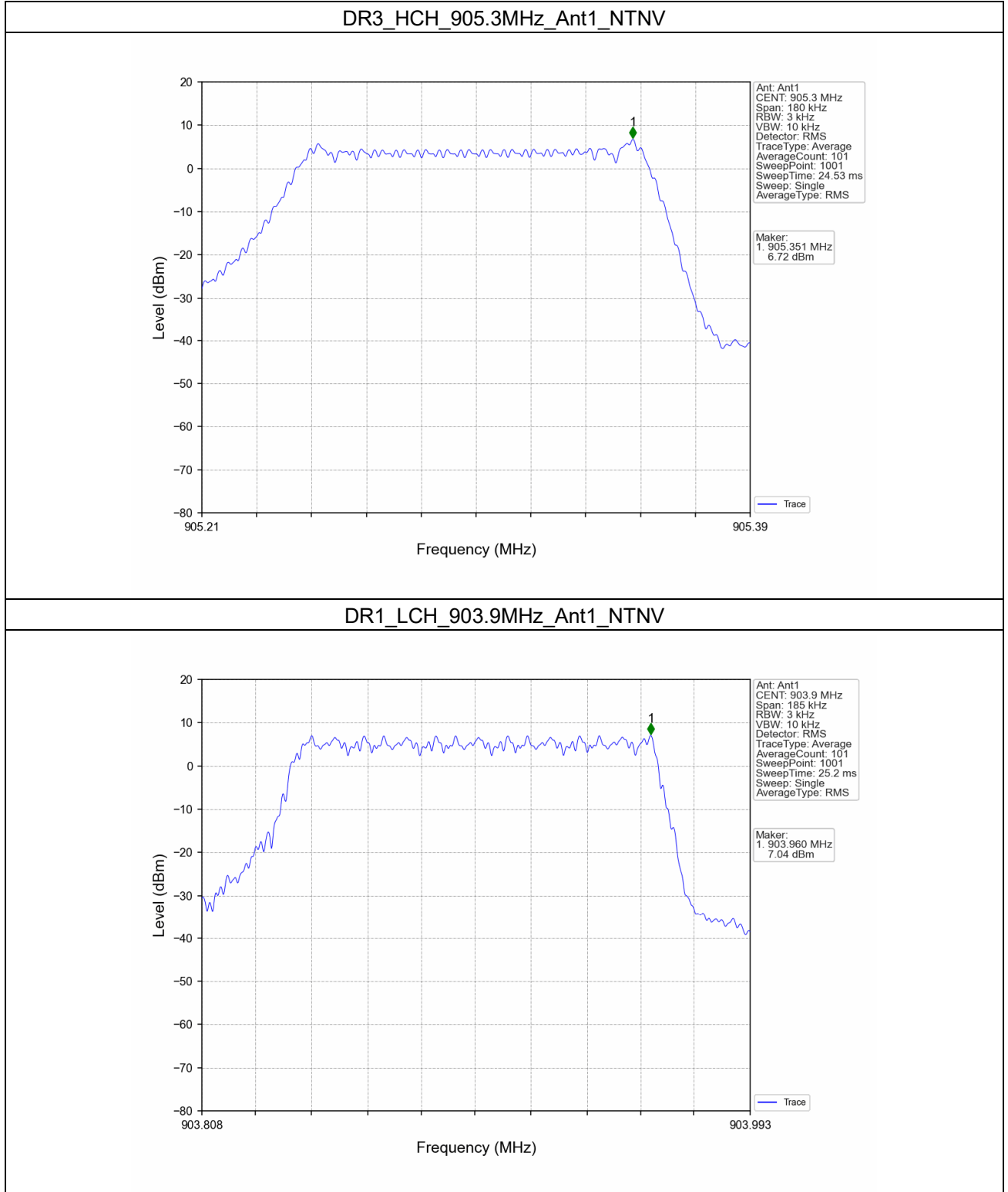


7.1.2 Test Graph



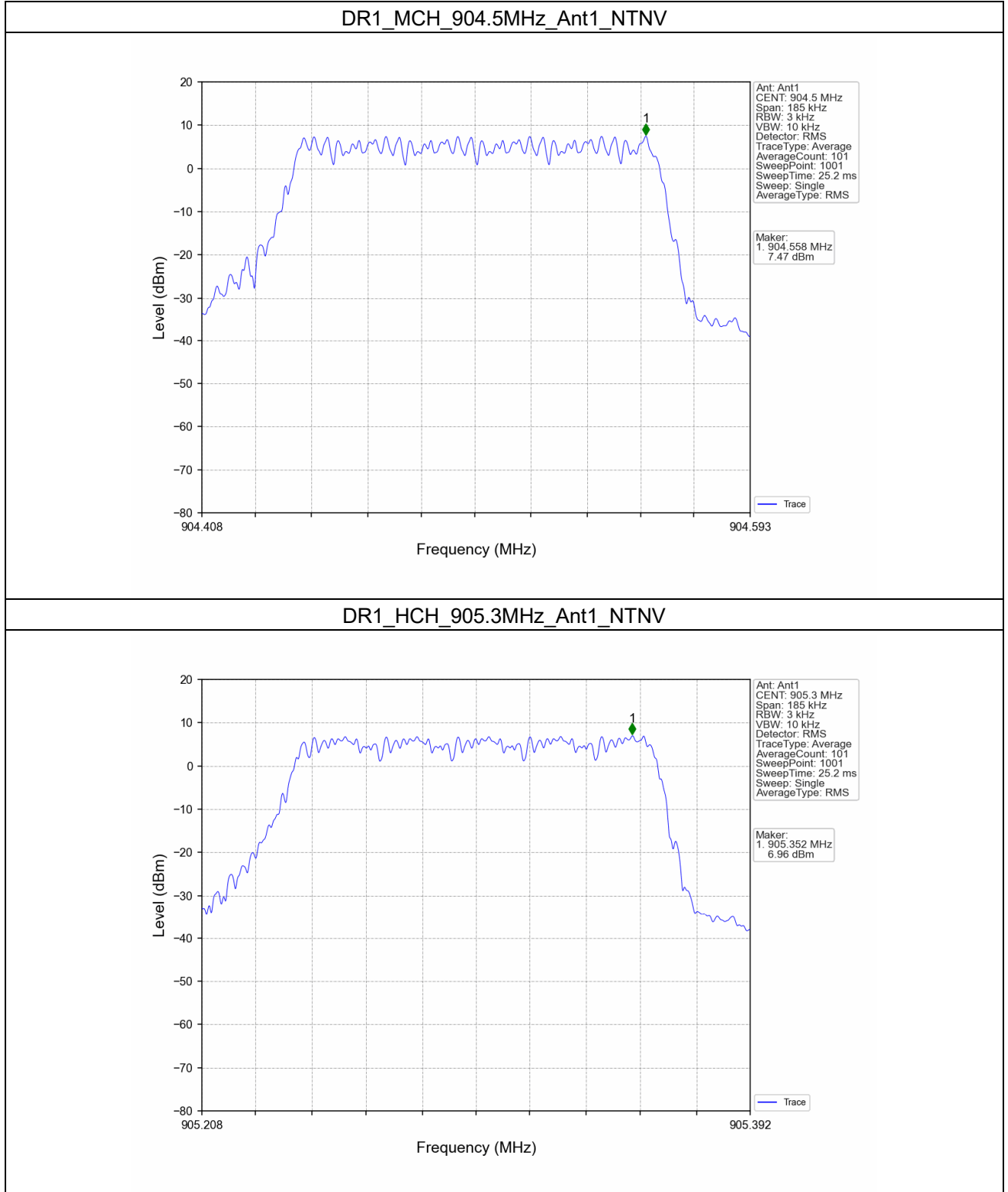
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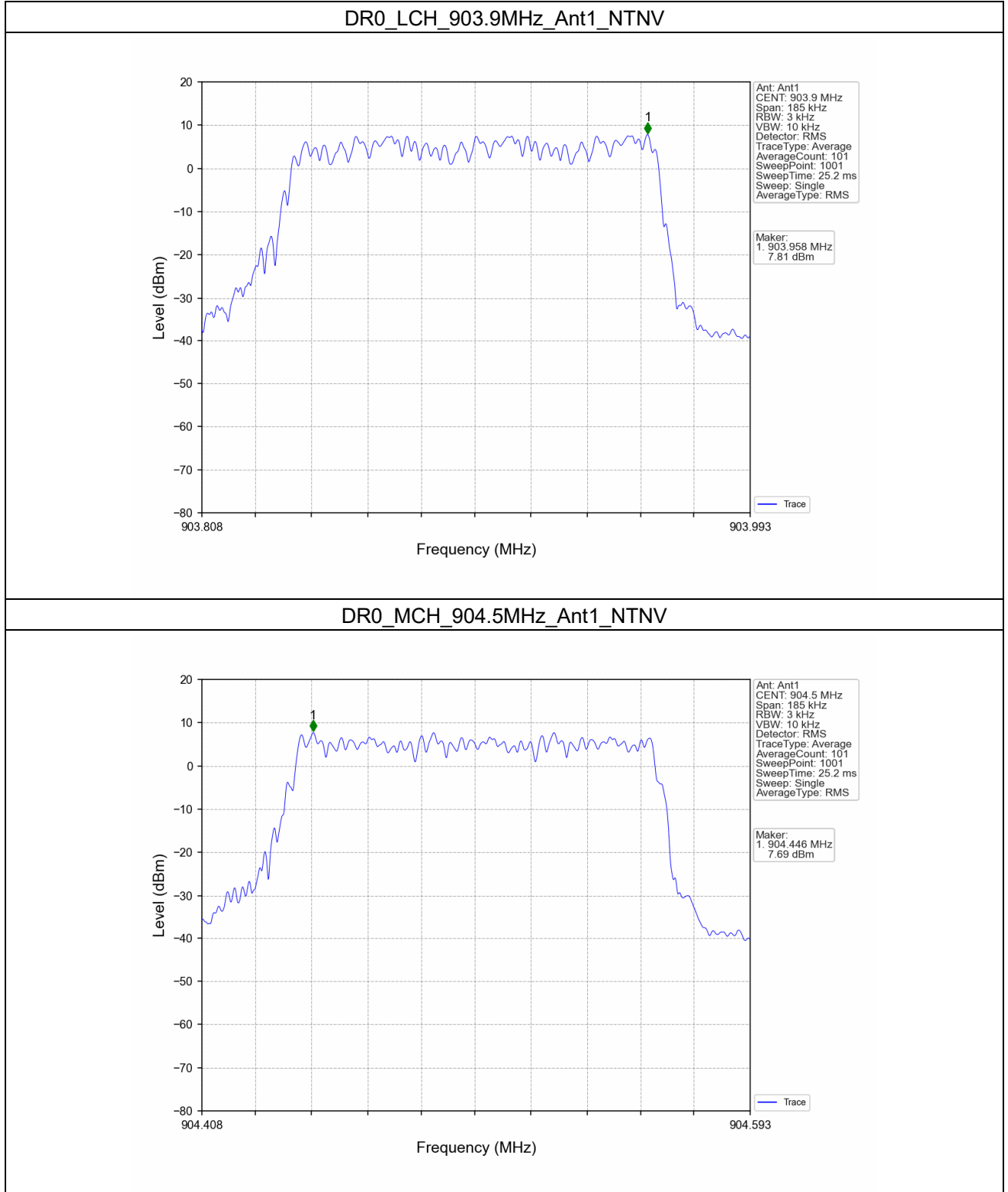
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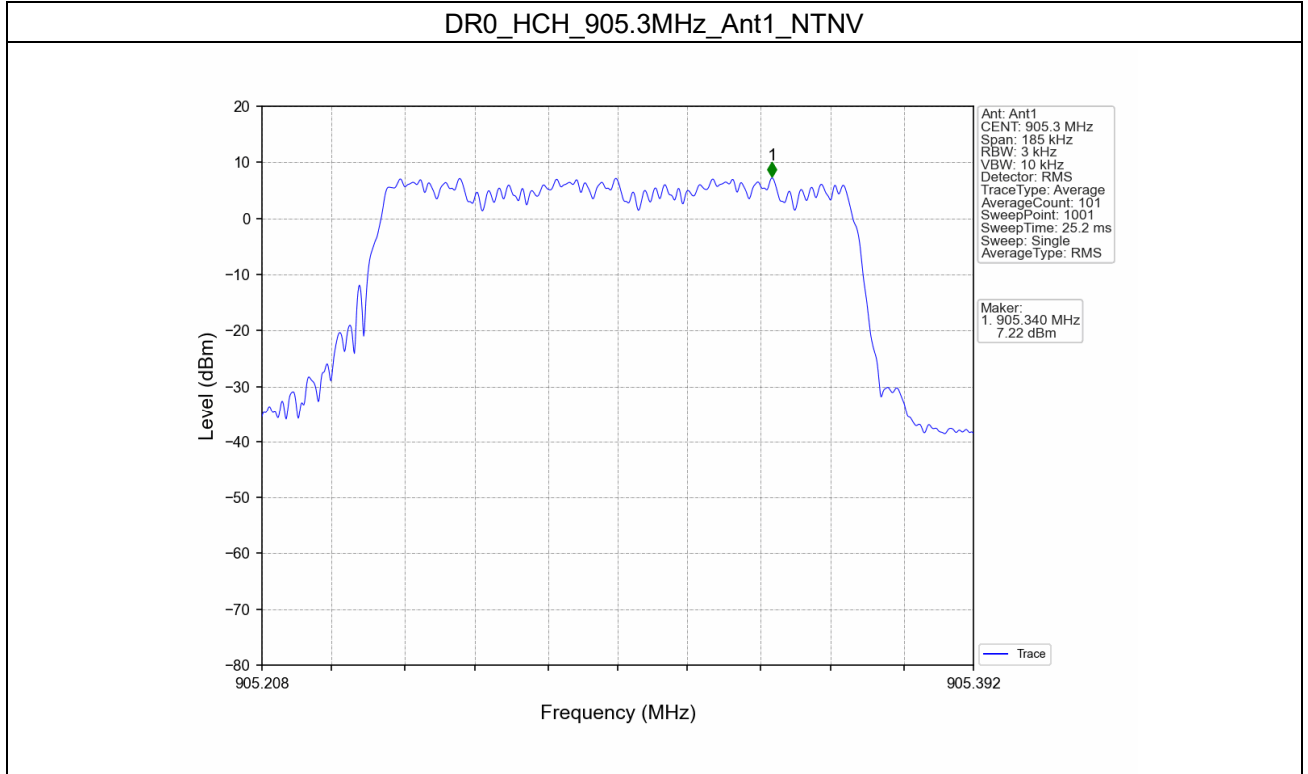
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Lora_DTS mode:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

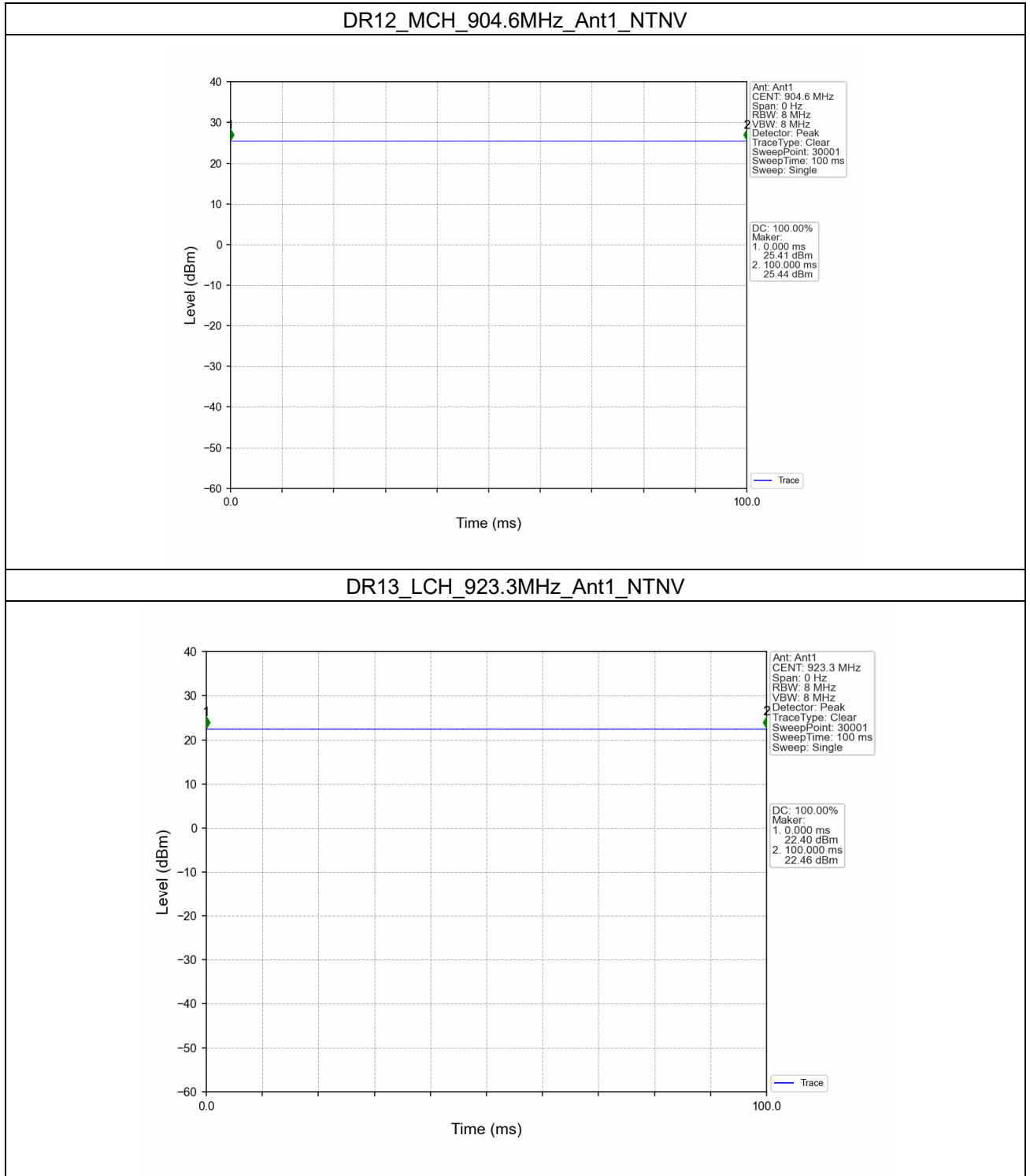
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
DR12	SISO	904.6	100.000	100.000	100.00	0.00	0.00
DR13	SISO	923.3	100.000	100.000	100.00	0.00	0.00
		925.1	100.000	100.000	100.00	0.00	0.00
		927.5	100.000	100.000	100.00	0.00	0.00
DR8	SISO	923.3	100.000	100.000	100.00	0.00	0.00
		925.1	100.000	100.000	100.00	0.00	0.00
		927.5	100.000	100.000	100.00	0.00	0.00



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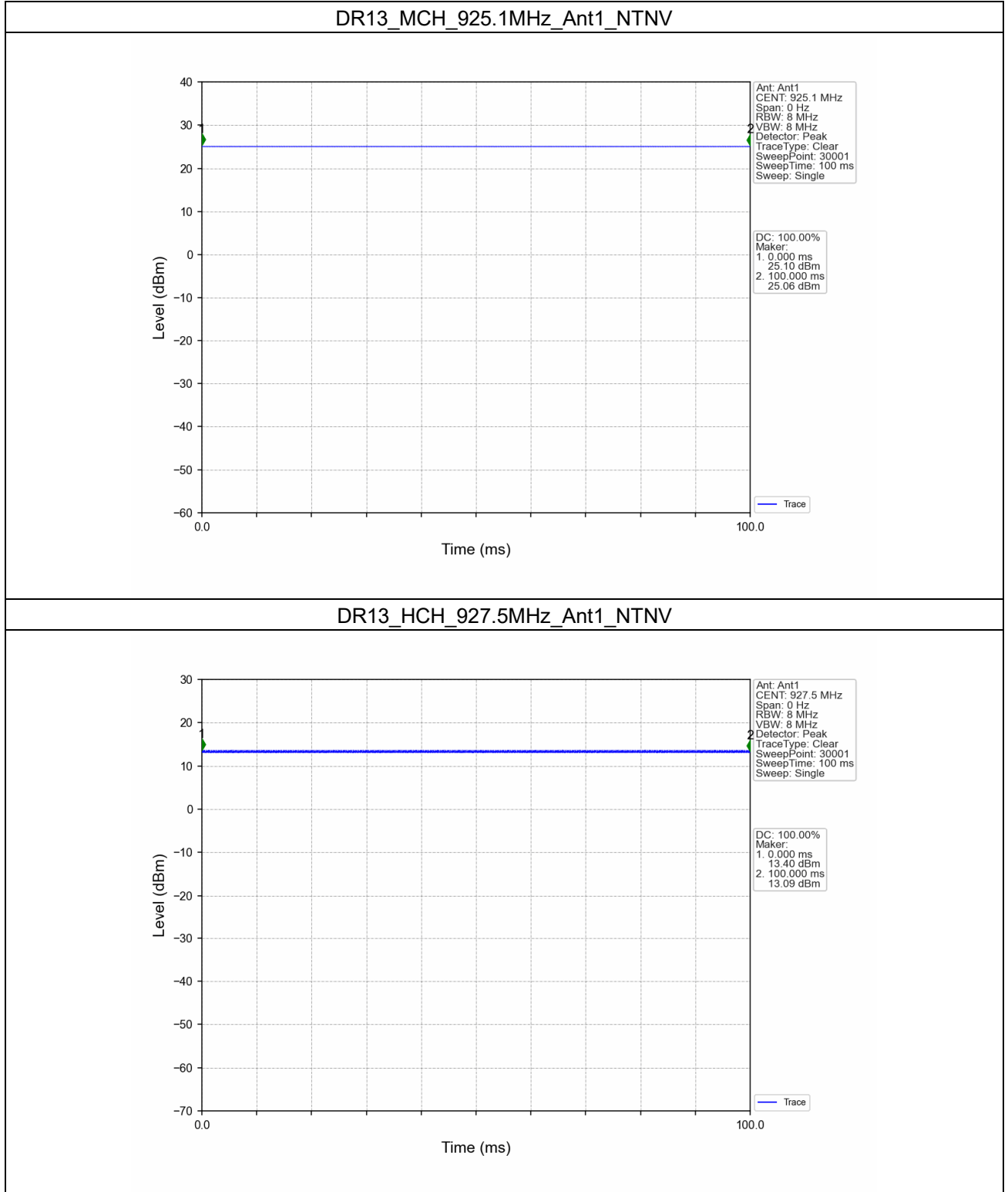
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1.1.2 Test Graph



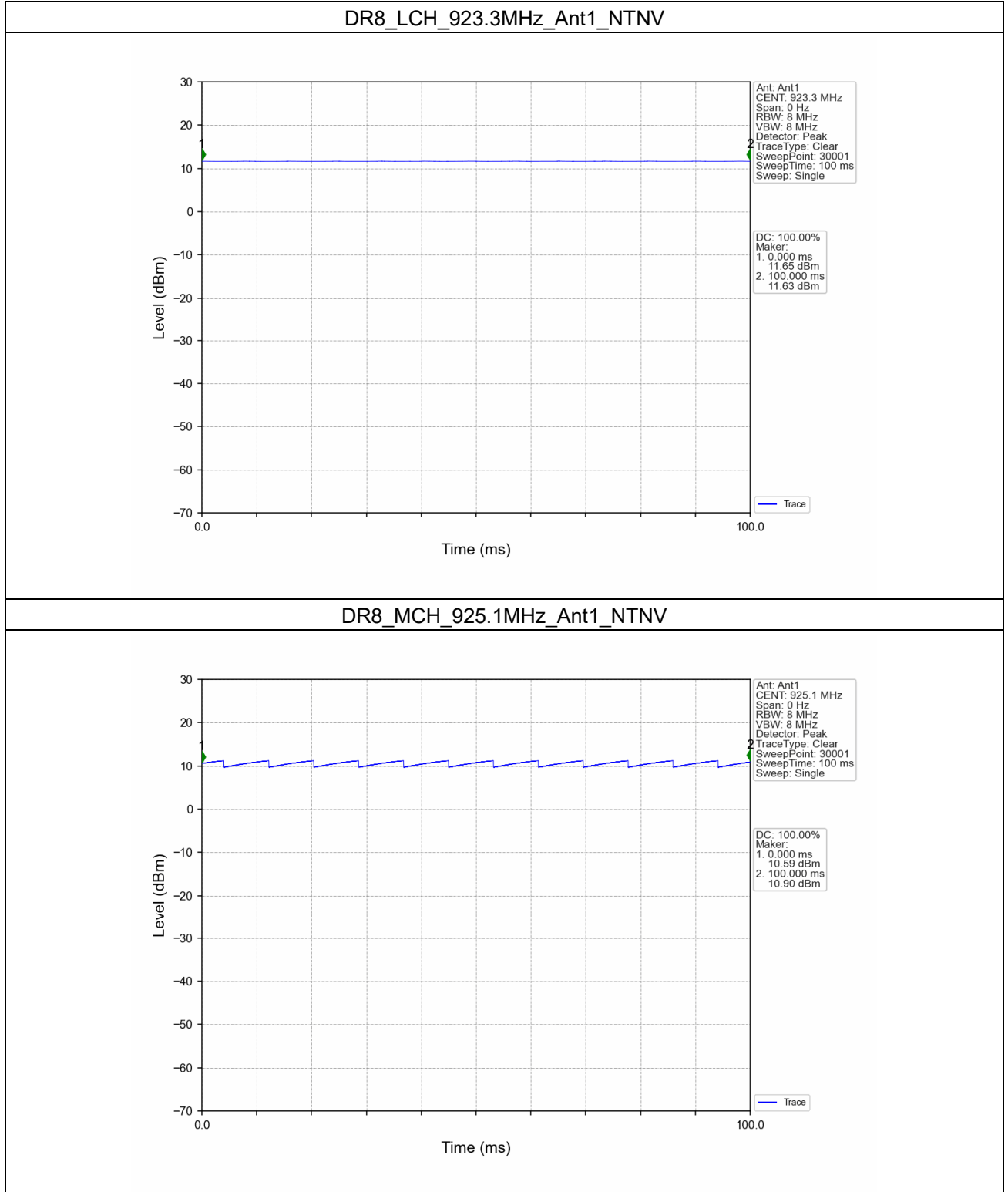
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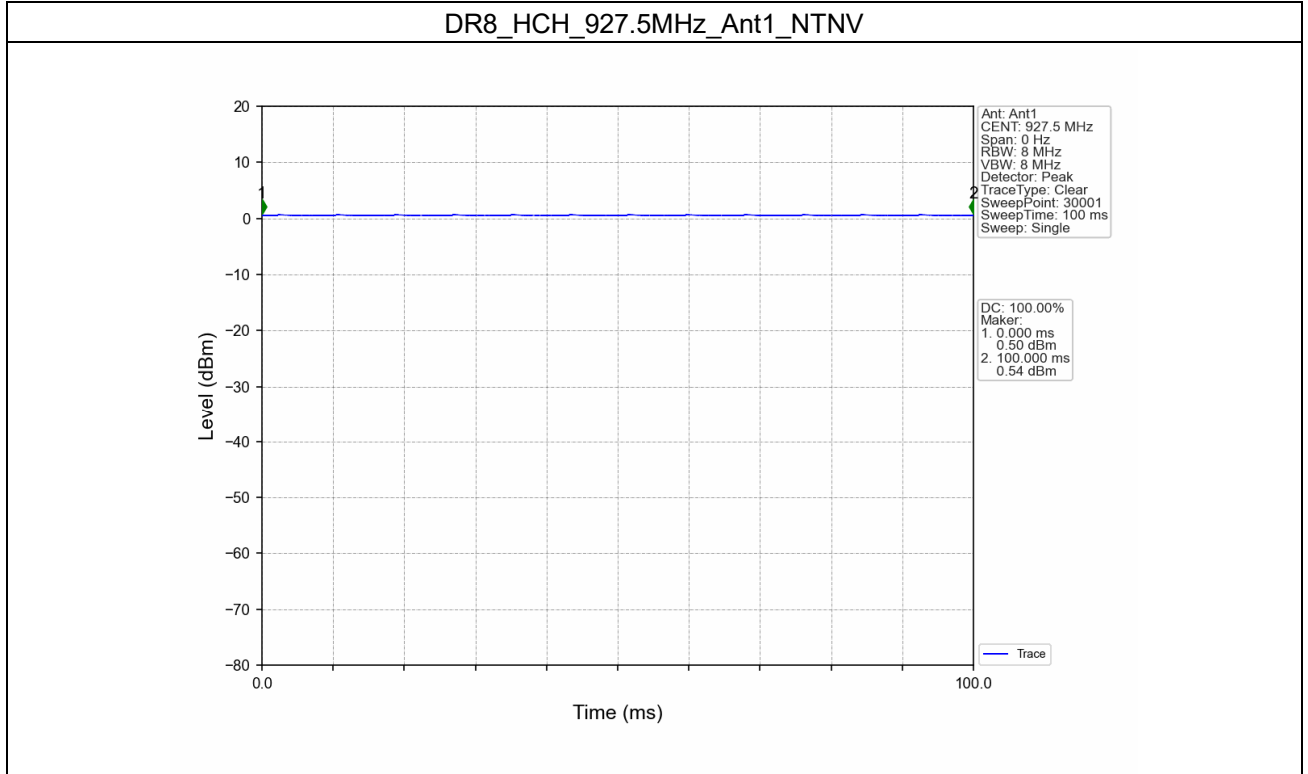
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

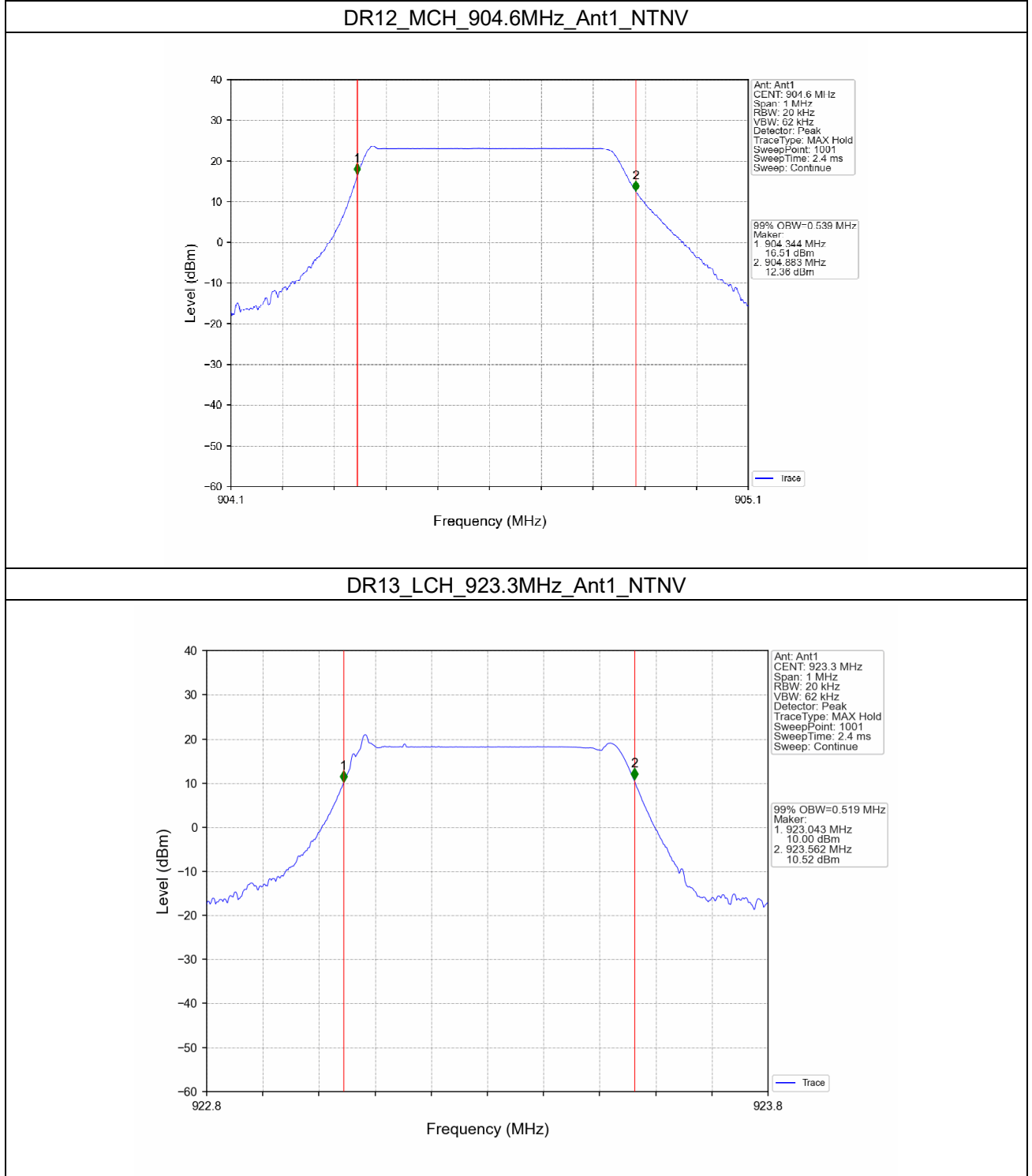
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
DR12	SISO	904.6	1	0.539	Pass
DR13	SISO	923.3	1	0.519	Pass
		925.1	1	0.530	Pass
		927.5	1	0.516	Pass
DR8	SISO	923.3	1	0.522	Pass
		925.1	1	0.522	Pass
		927.5	1	0.521	Pass



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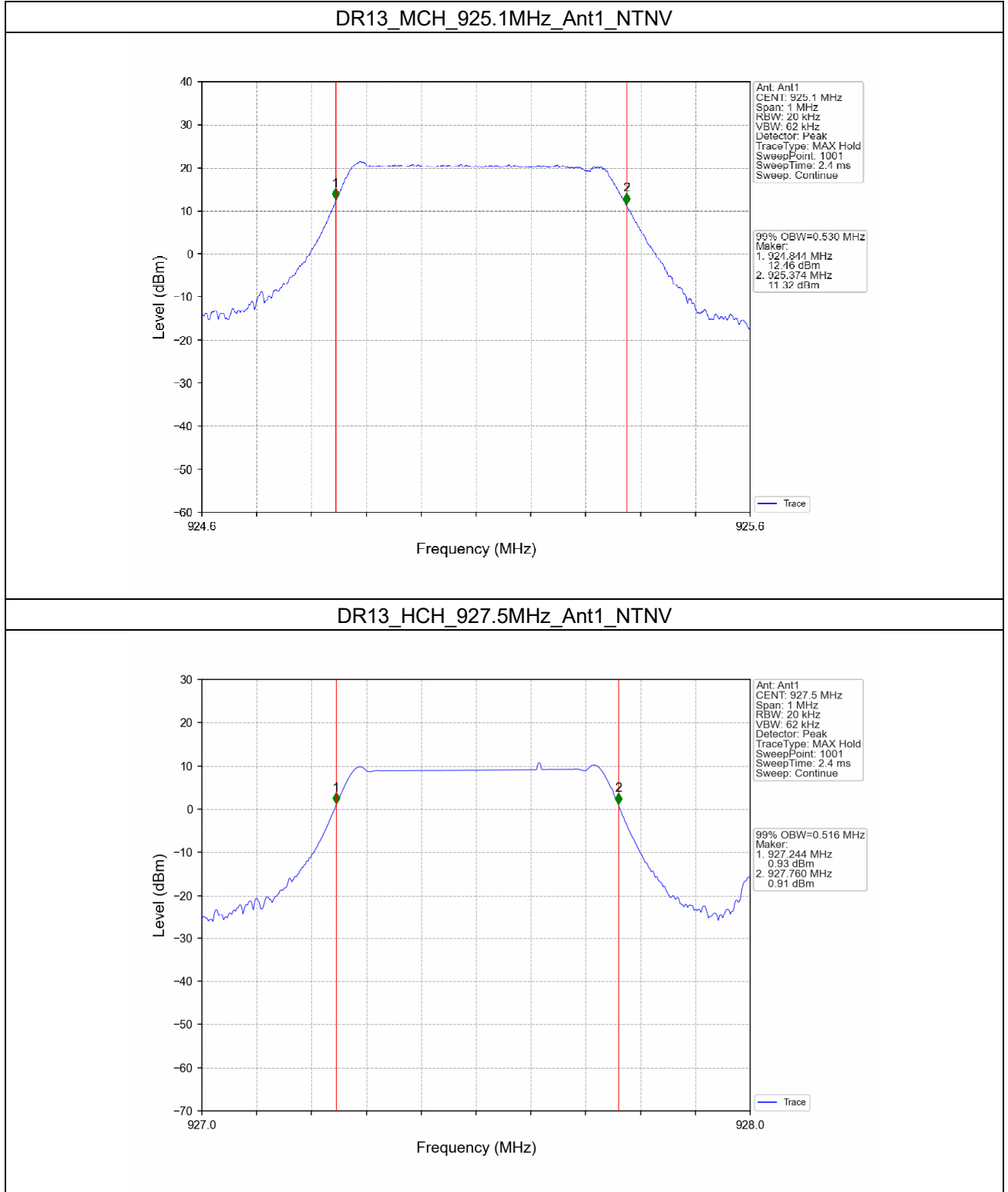
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2.1.2 Test Graph



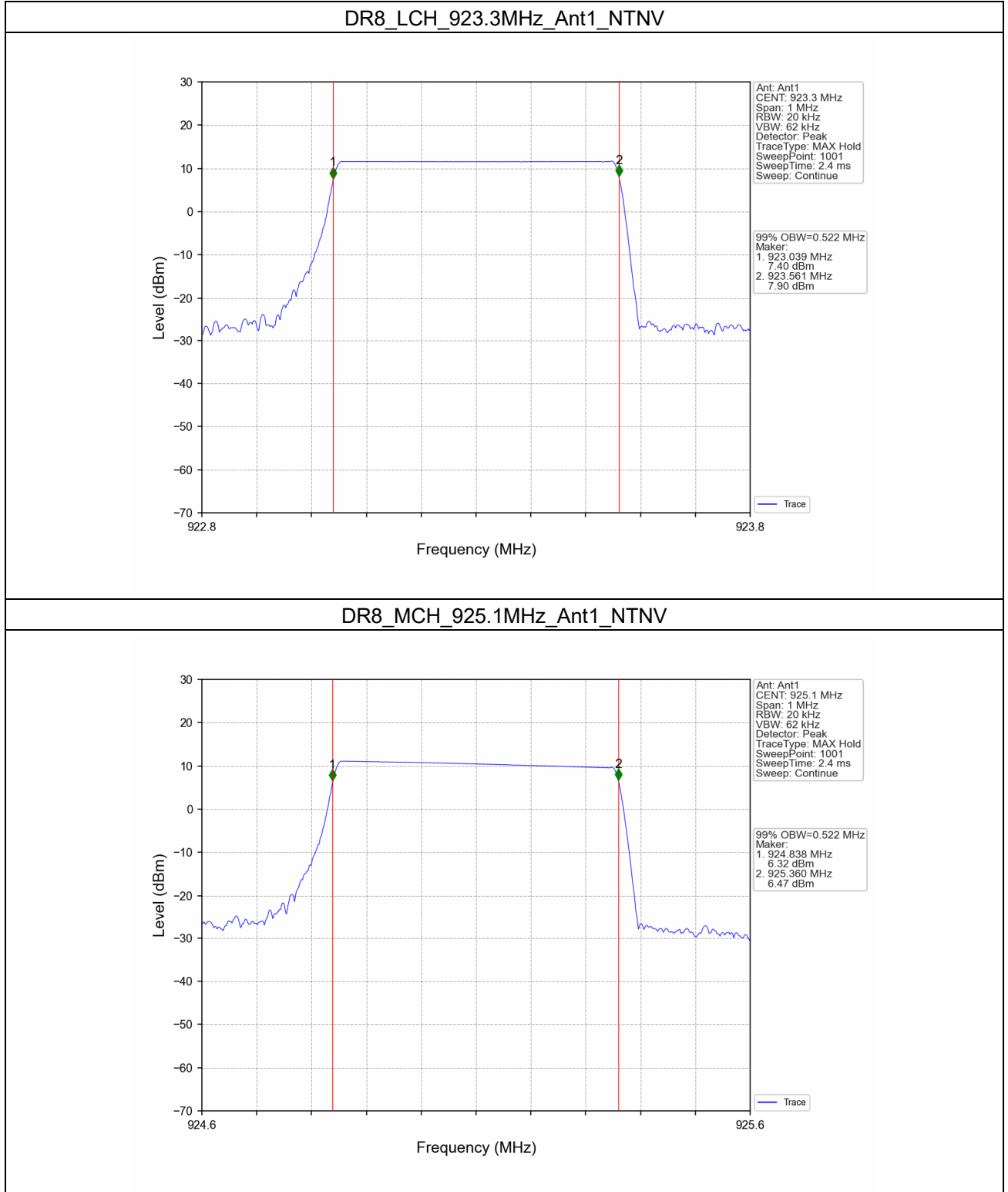
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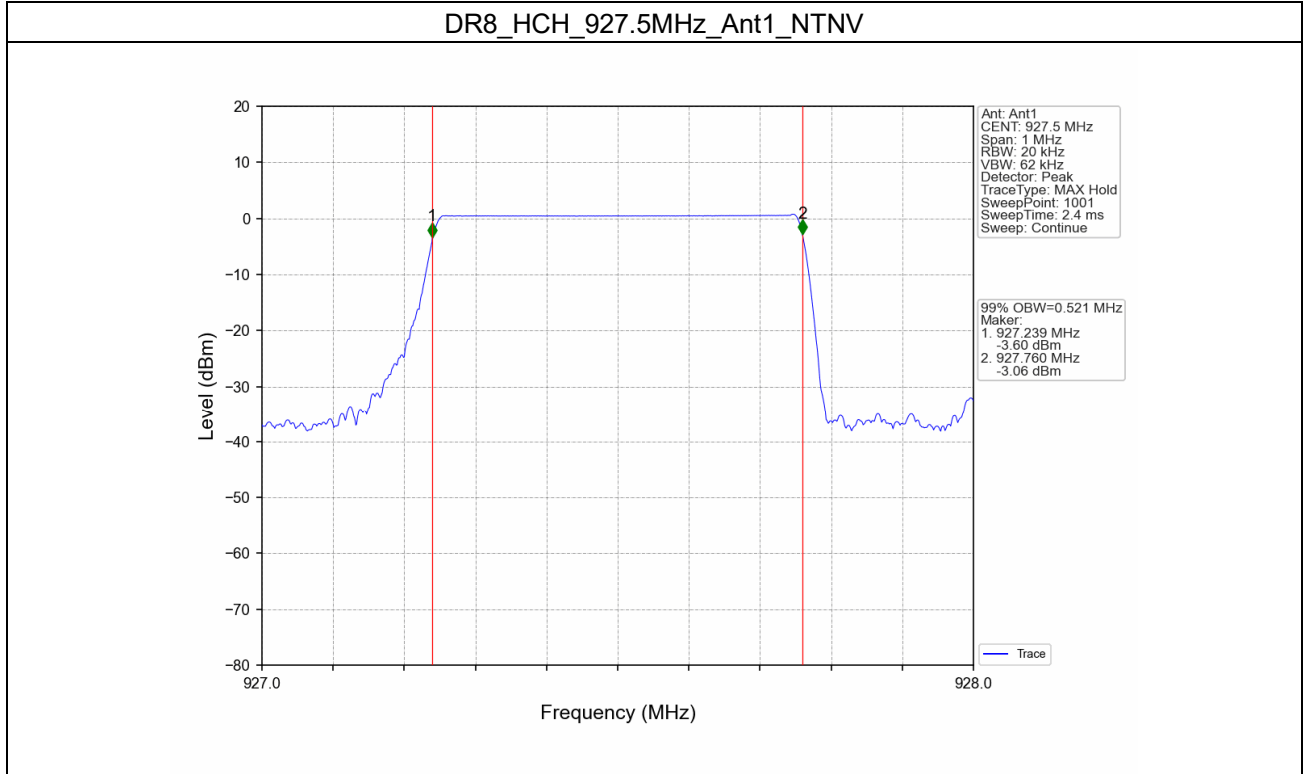
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2.2 6dB BW

2.2.1 Test Result

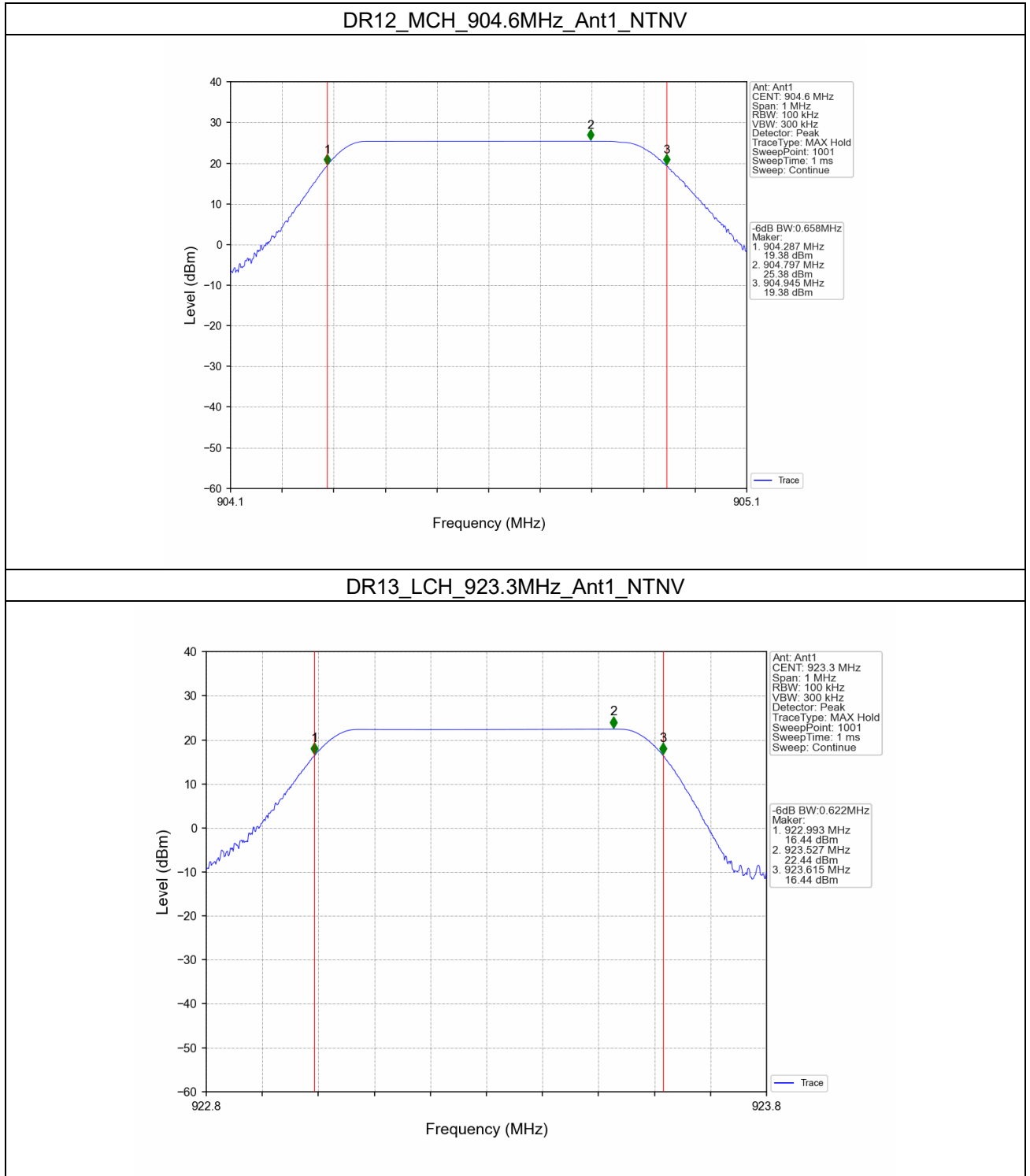
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
DR12	SISO	904.6	1	0.658	>=0.5	Pass
DR13	SISO	923.3	1	0.622	>=0.5	Pass
		925.1	1	0.635	>=0.5	Pass
		927.5	1	0.613	>=0.5	Pass
DR8	SISO	923.3	1	0.639	>=0.5	Pass
		925.1	1	0.629	>=0.5	Pass
		927.5	1	0.638	>=0.5	Pass



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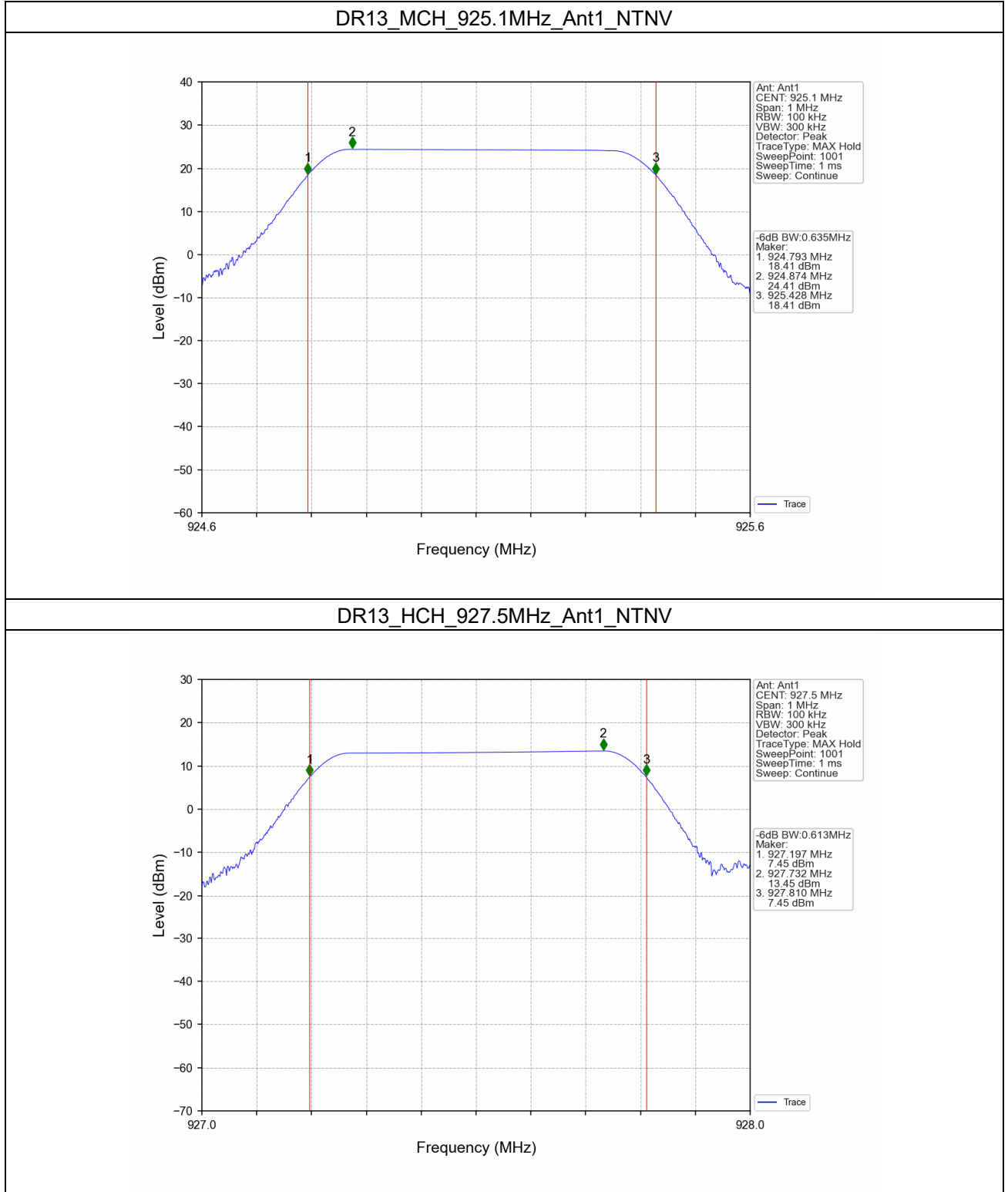
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2.2.2 Test Graph



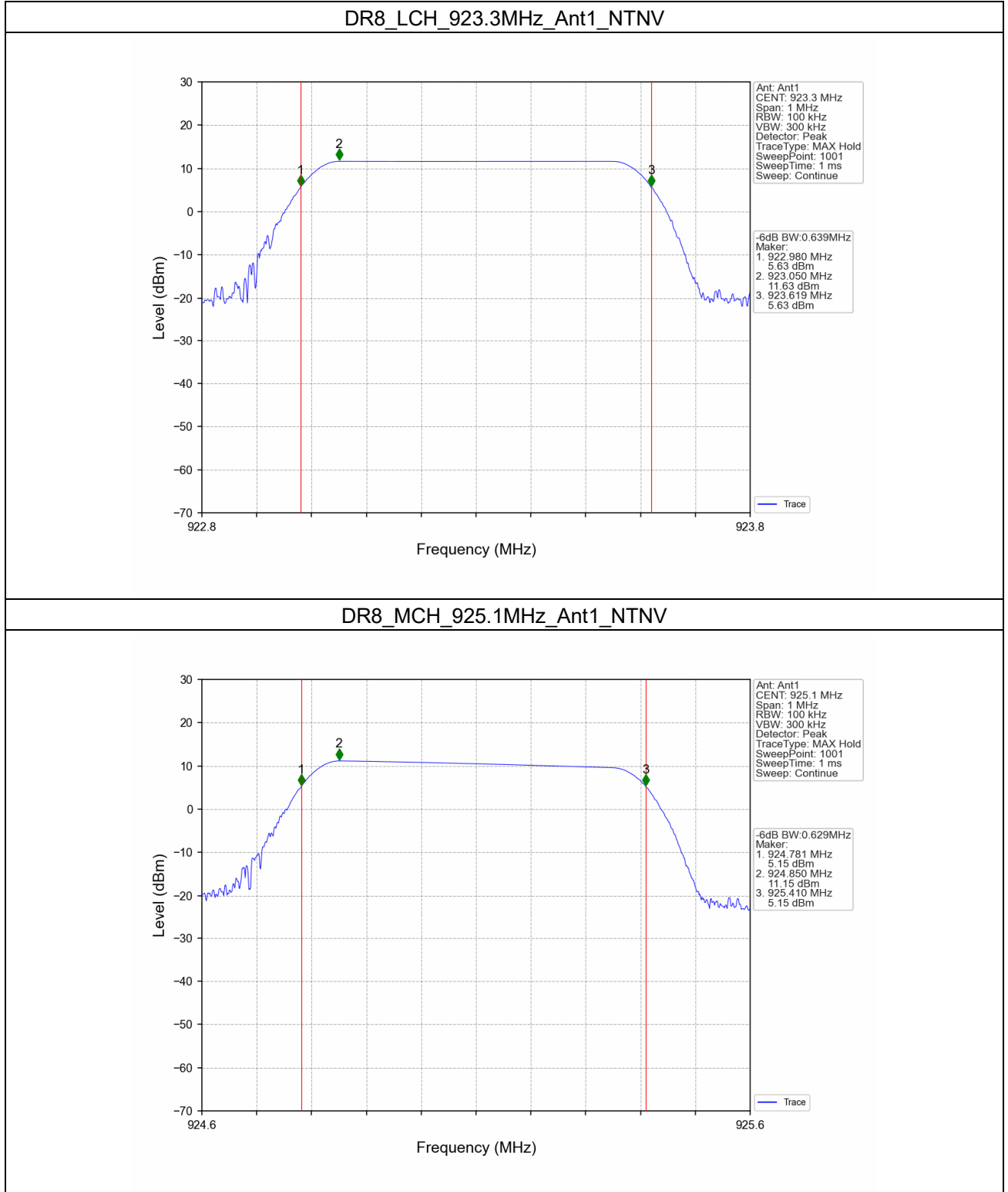
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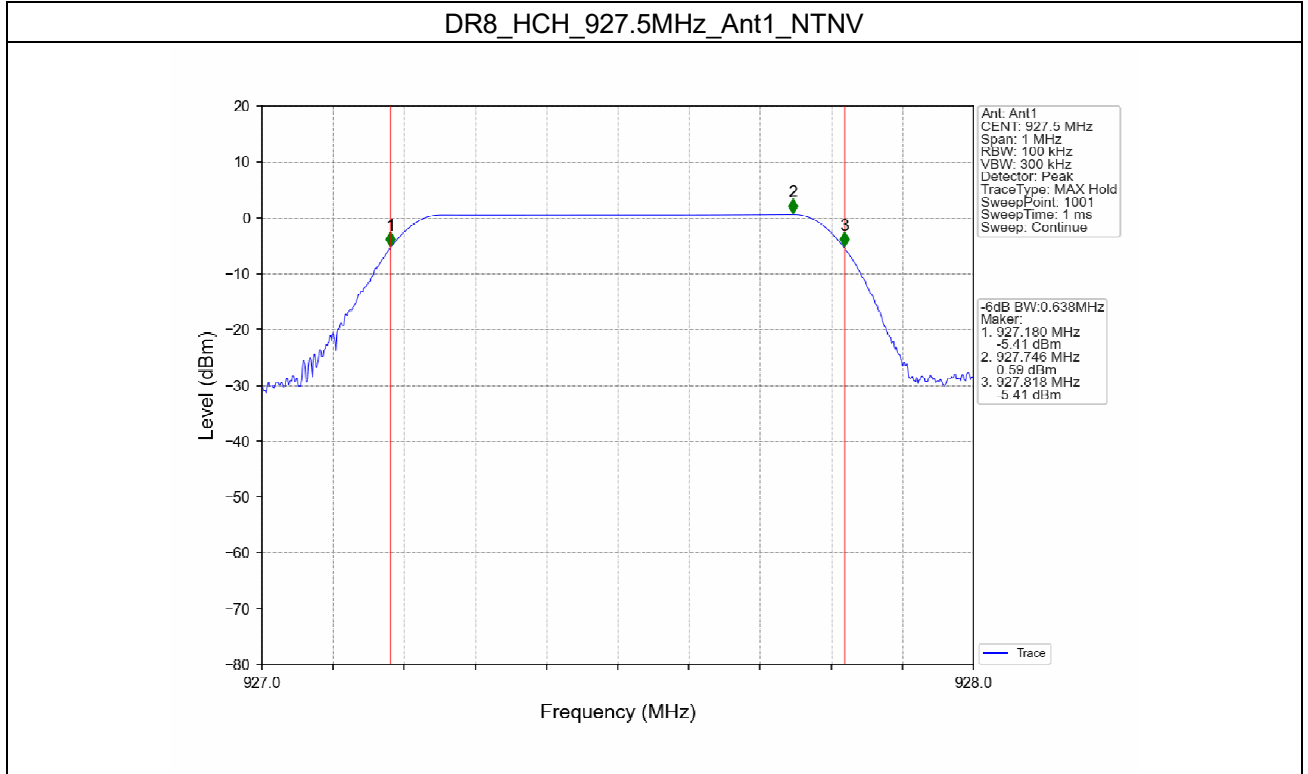
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
DR12	SISO	904.6	22.98	<=30	Pass
DR13	SISO	923.3	25.30	<=30	Pass
		925.1	25.04	<=30	Pass
		927.5	24.69	<=30	Pass
DR8	SISO	923.3	11.65	<=30	Pass
		925.1	12.10	<=30	Pass
		927.5	11.86	<=30	Pass



4. Maximum Power Spectral Density

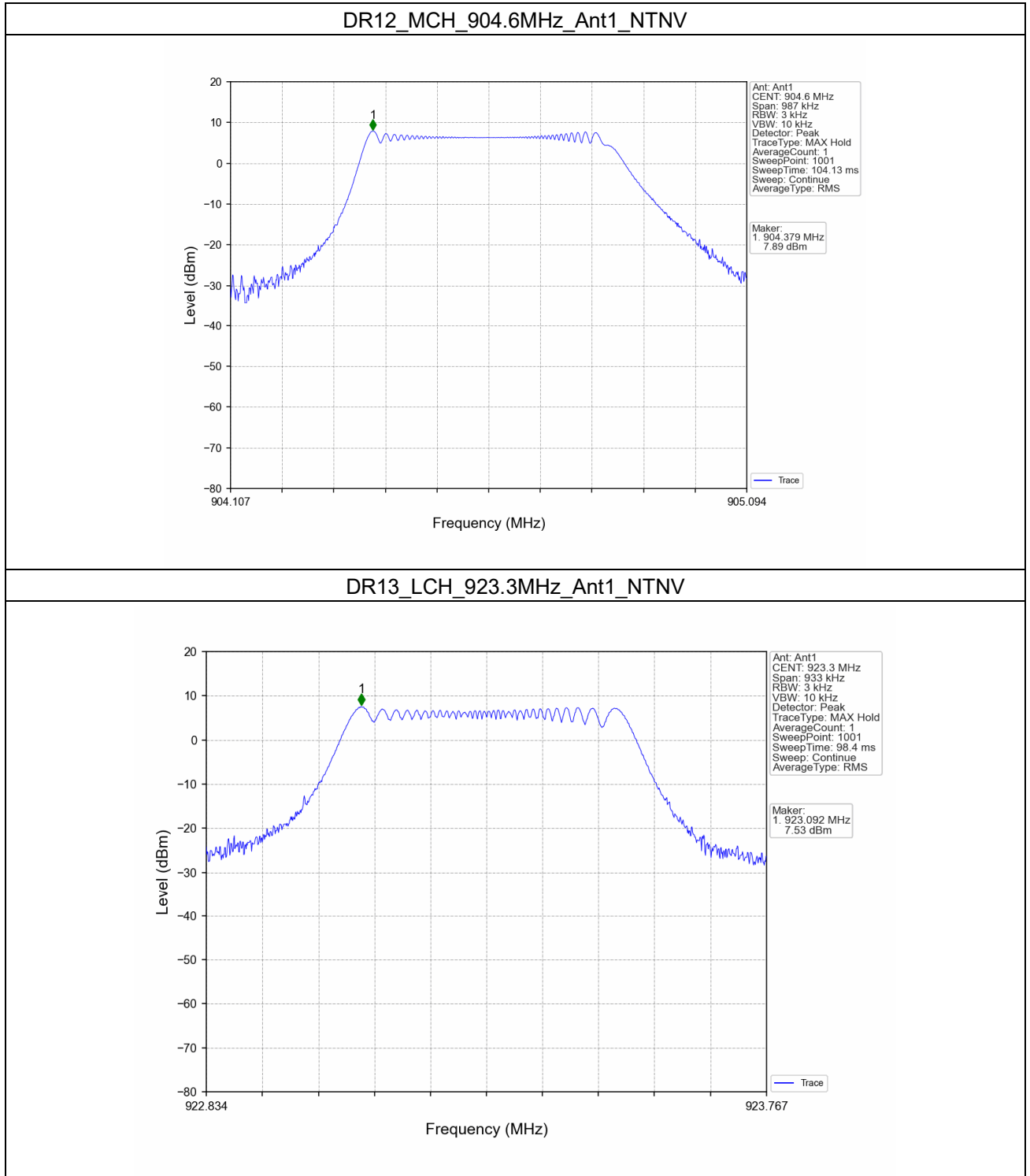
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
DR12	SISO	904.6	7.89	<=8	Pass
DR13	SISO	923.3	7.53	<=8	Pass
		925.1	7.07	<=8	Pass
		927.5	7.59	<=8	Pass
DR8	SISO	923.3	7.10	<=8	Pass
		925.1	7.45	<=8	Pass
		927.5	7.82	<=8	Pass

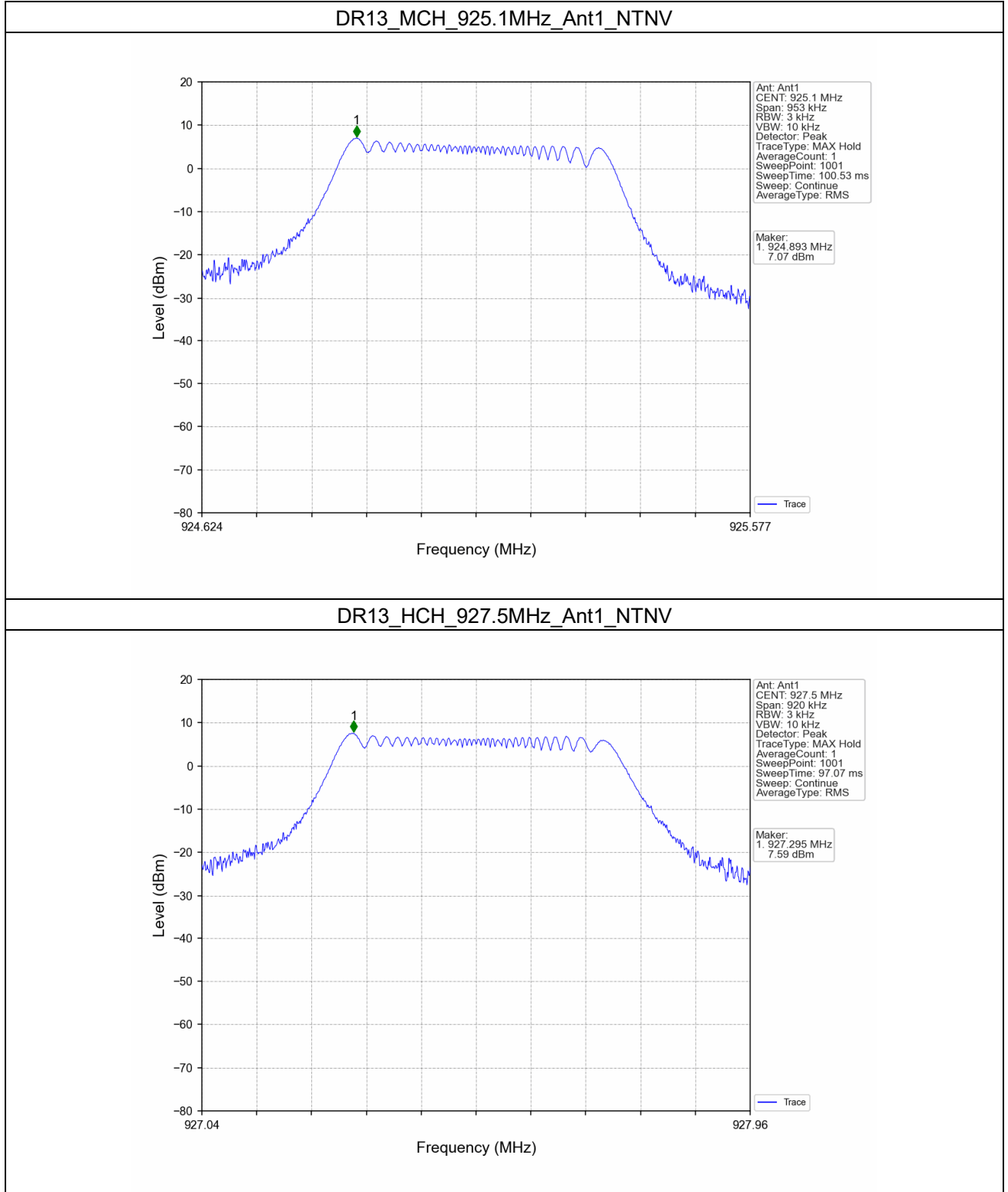


4.1.2 Test Graph



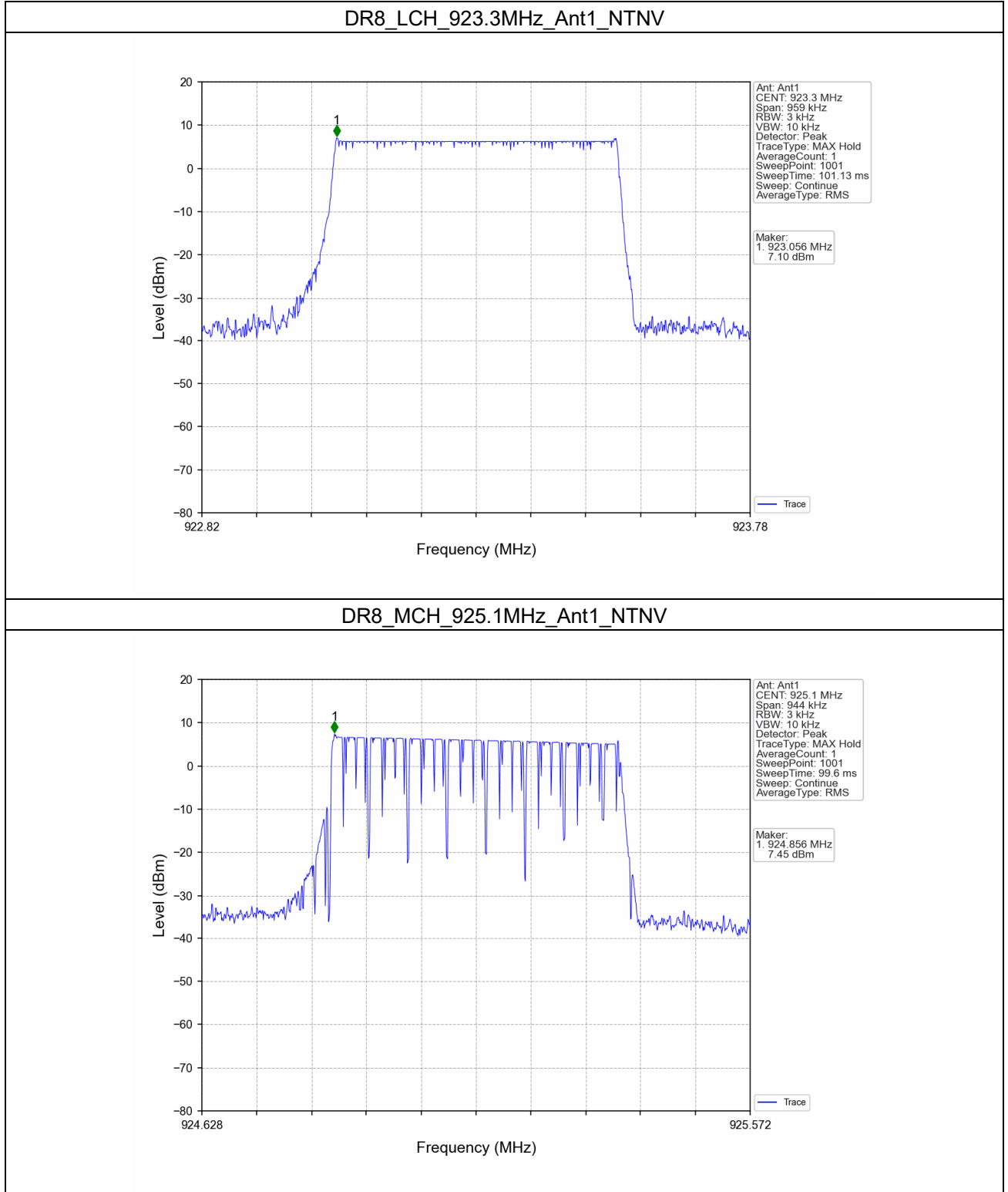
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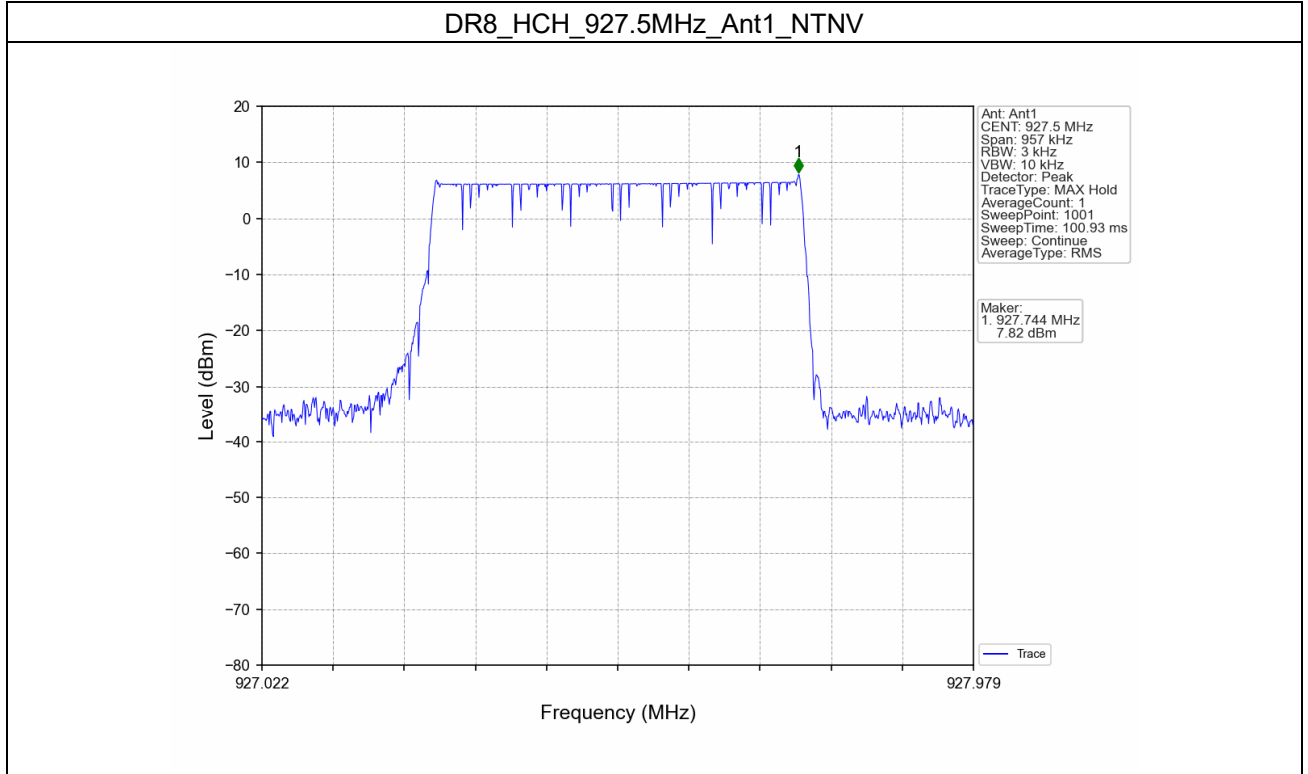
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

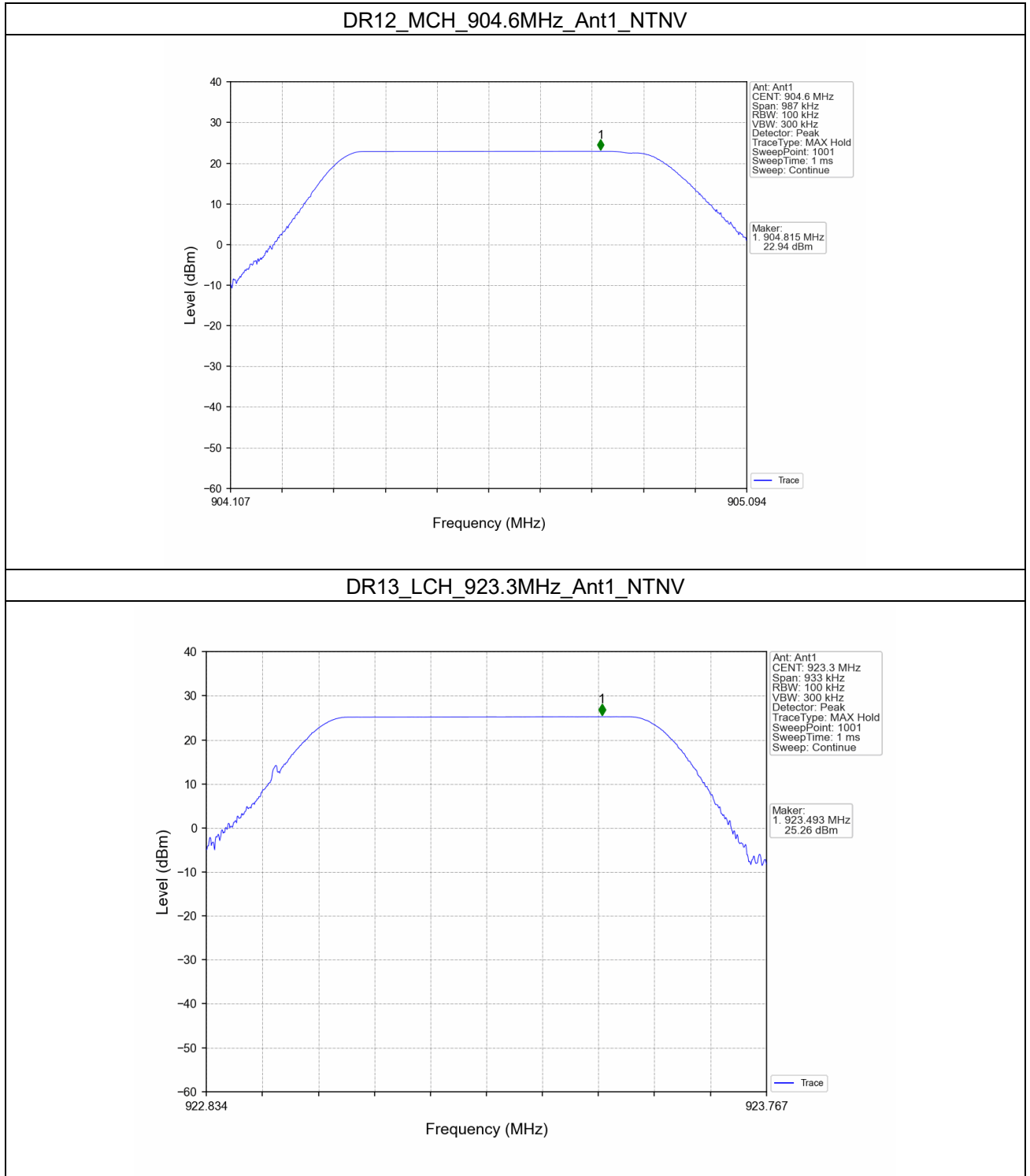
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
DR12	SISO	904.6	1	22.94
DR13	SISO	923.3	1	25.26
		925.1	1	24.81
		927.5	1	24.83
DR8	SISO	923.3	1	11.64
		925.1	1	11.98
		927.5	1	11.81



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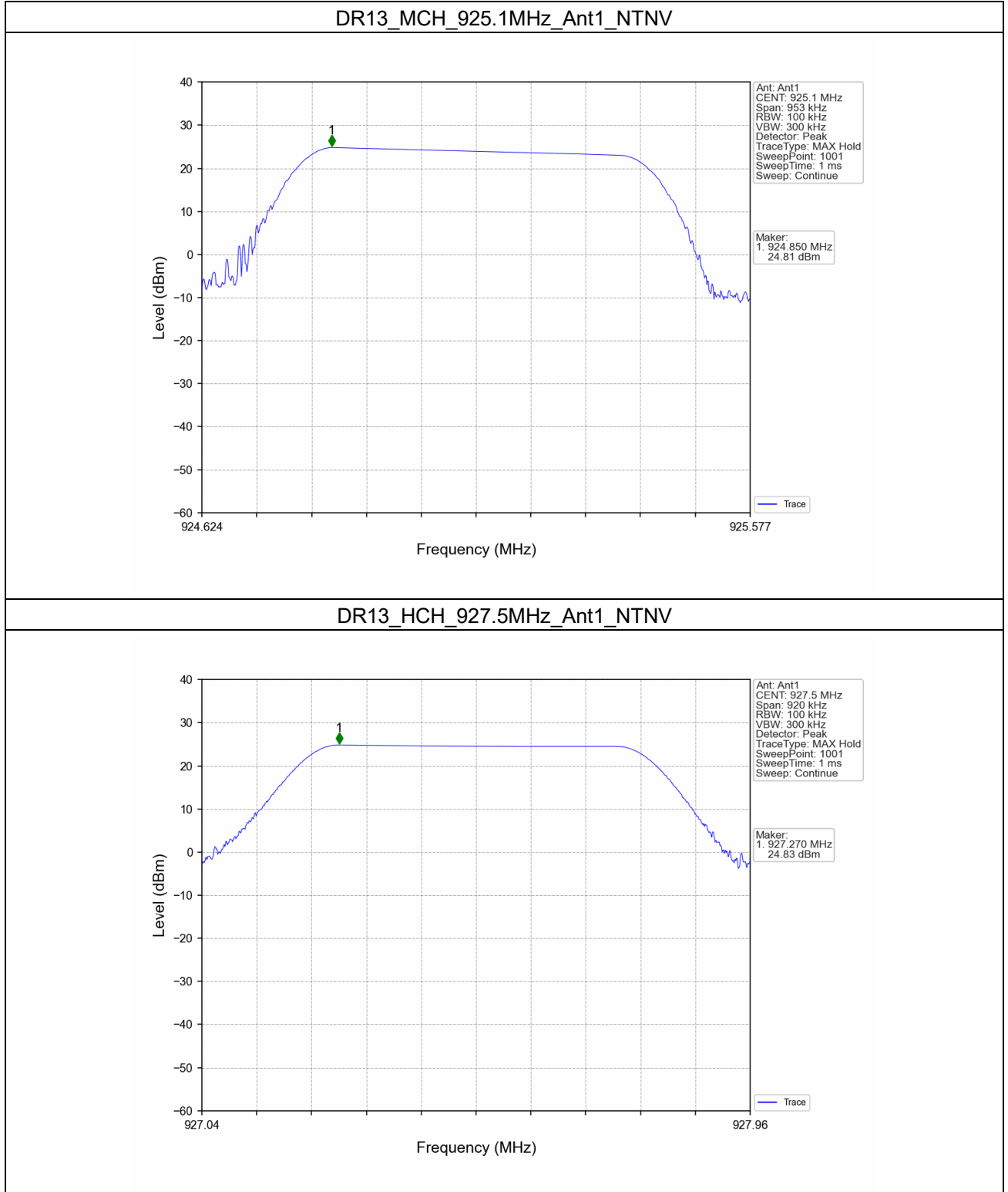
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5.1.2 Test Graph

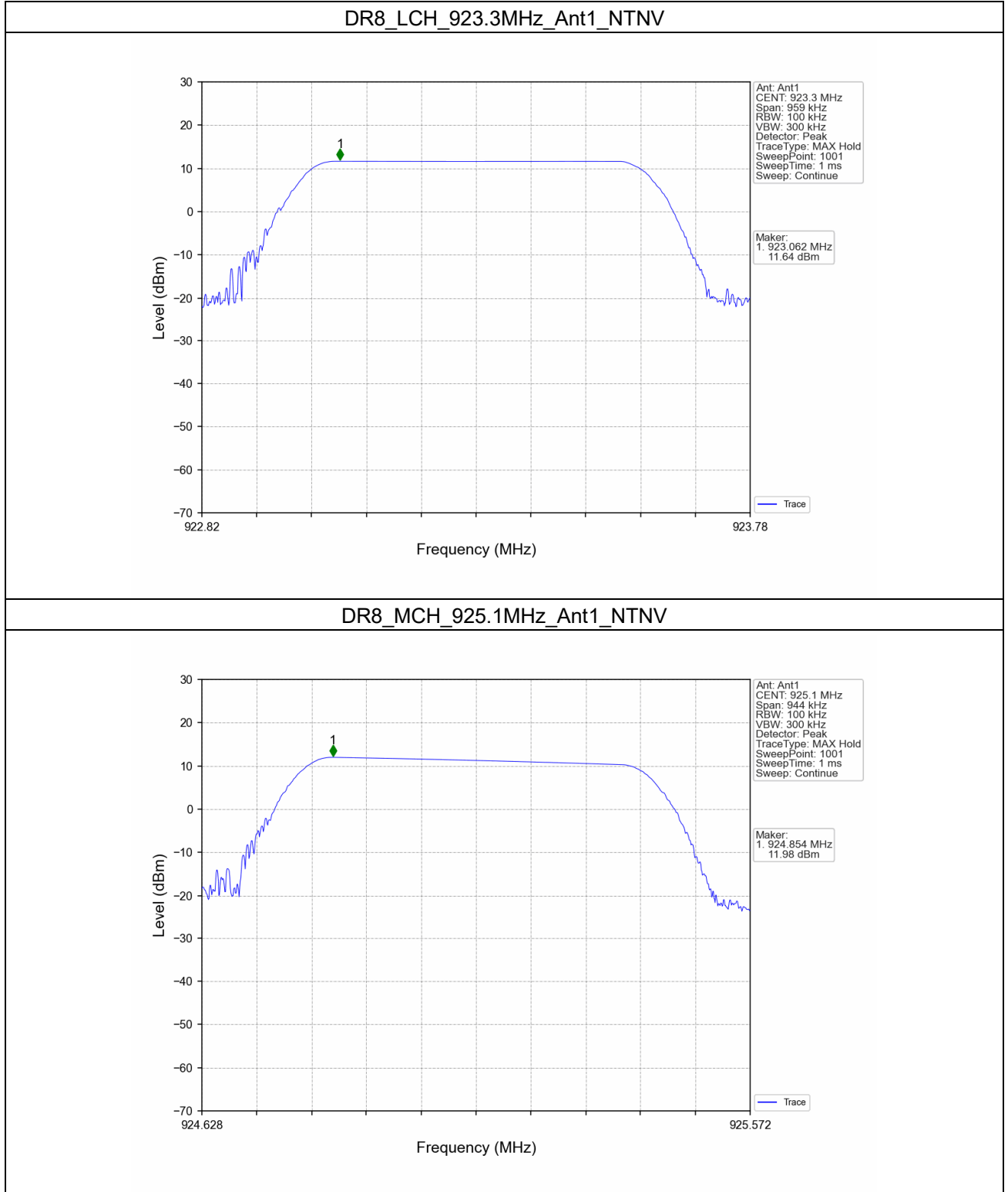


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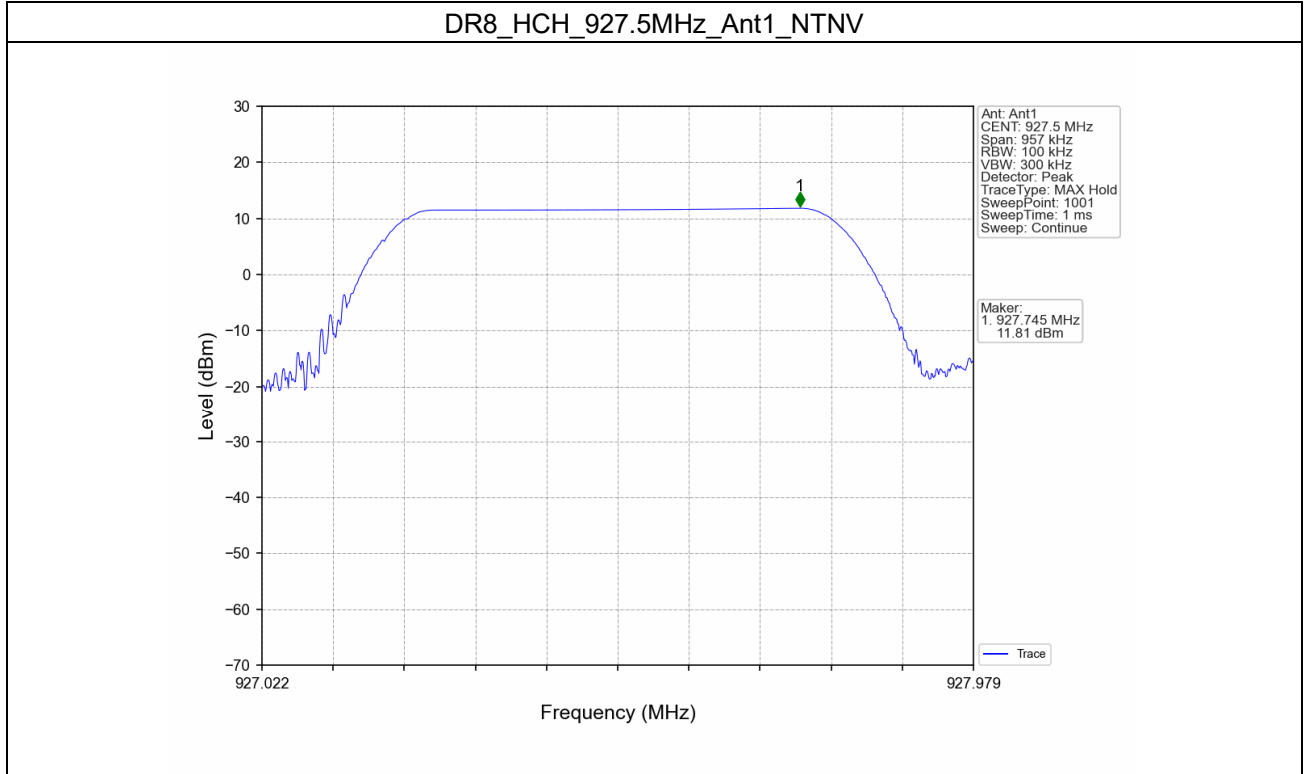


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5.2 CSE

5.2.1 Test Result

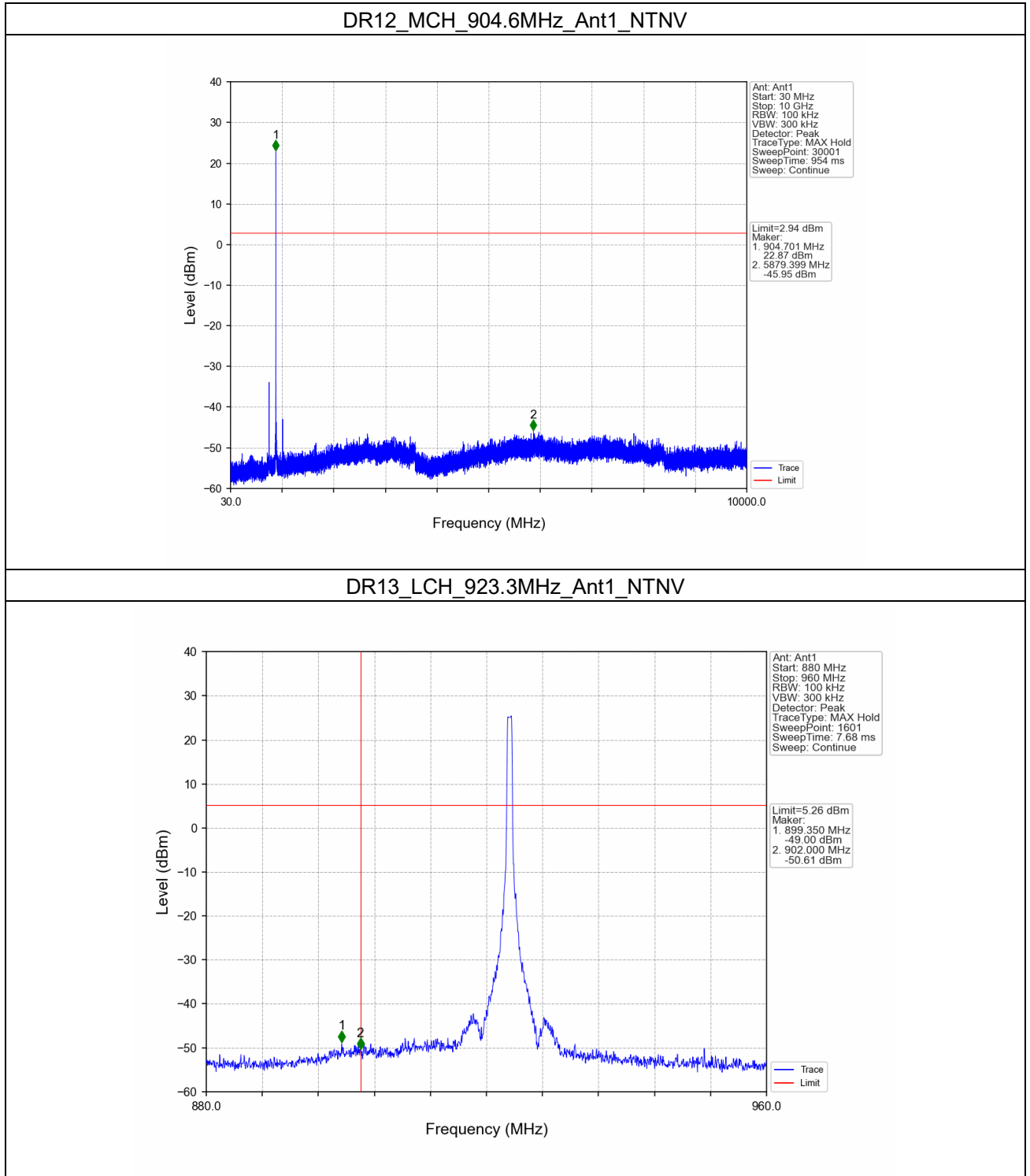
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
DR12	SISO	904.6	1	22.94	2.94	Pass
DR13	SISO	923.3	1	25.26	5.26	Pass
		925.1	1	25.26	5.26	Pass
		927.5	1	25.26	5.26	Pass
DR8	SISO	923.3	1	11.98	-8.02	Pass
		925.1	1	11.98	-8.02	Pass
		927.5	1	11.98	-8.02	Pass



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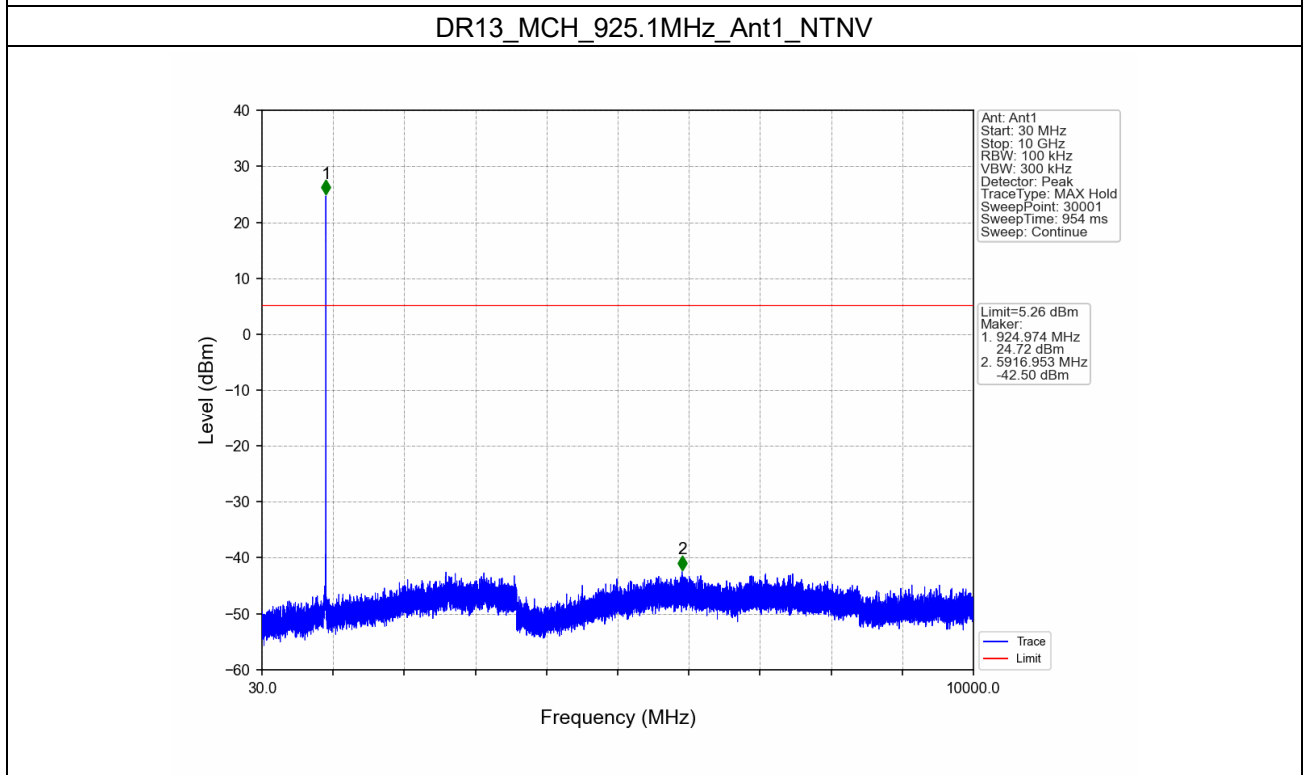
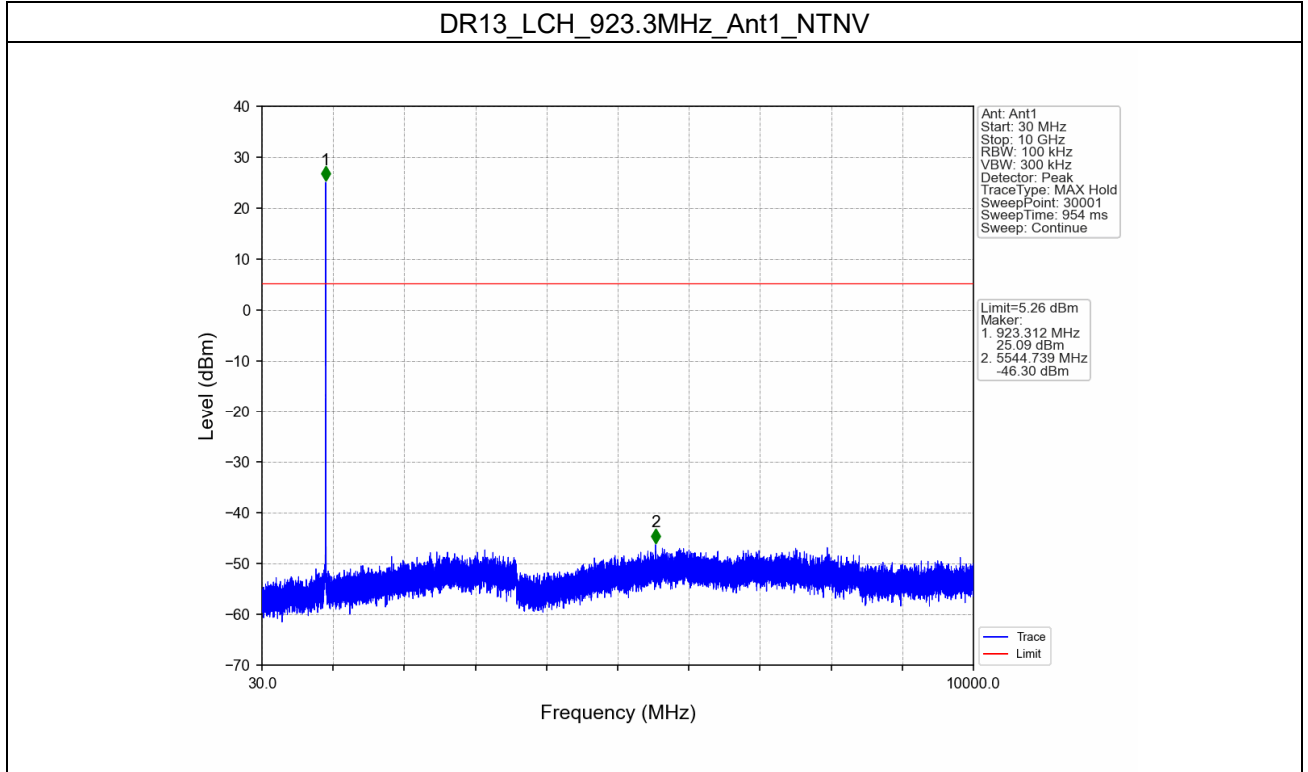
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5.2.2 Test Graph



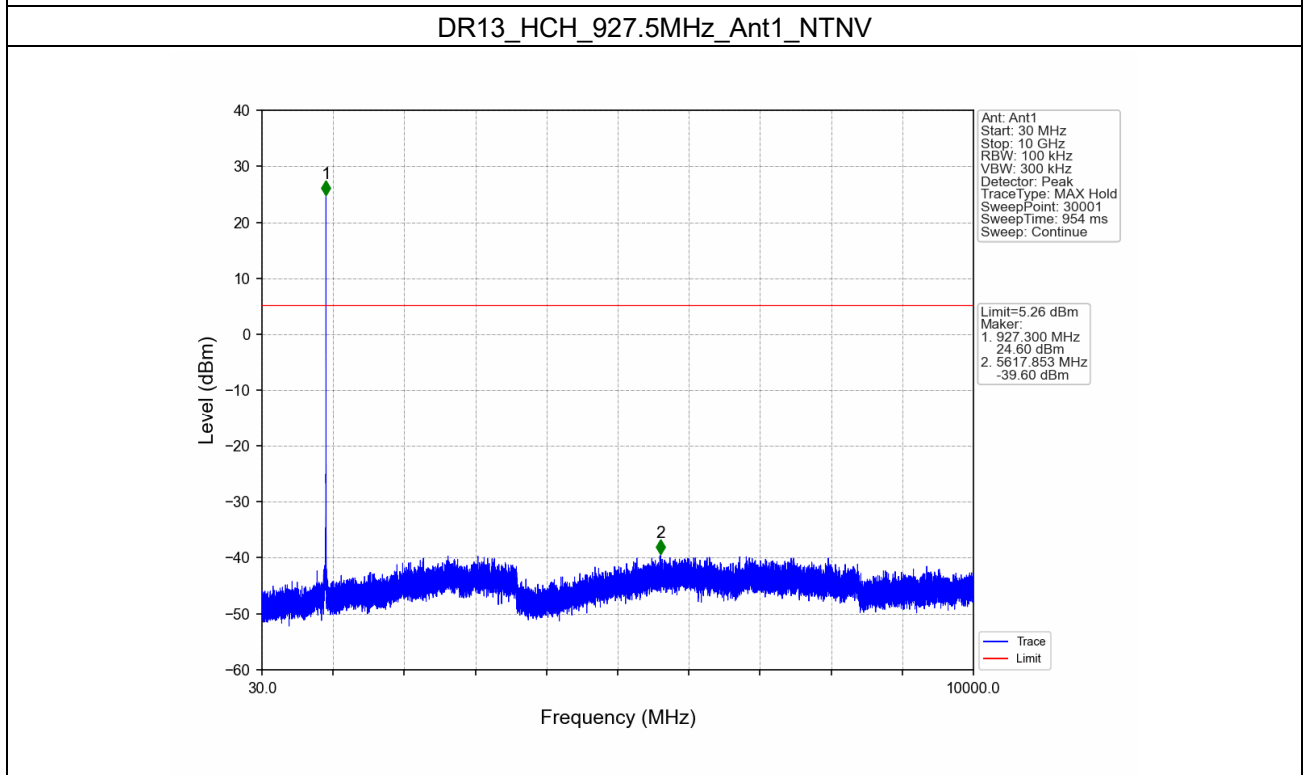
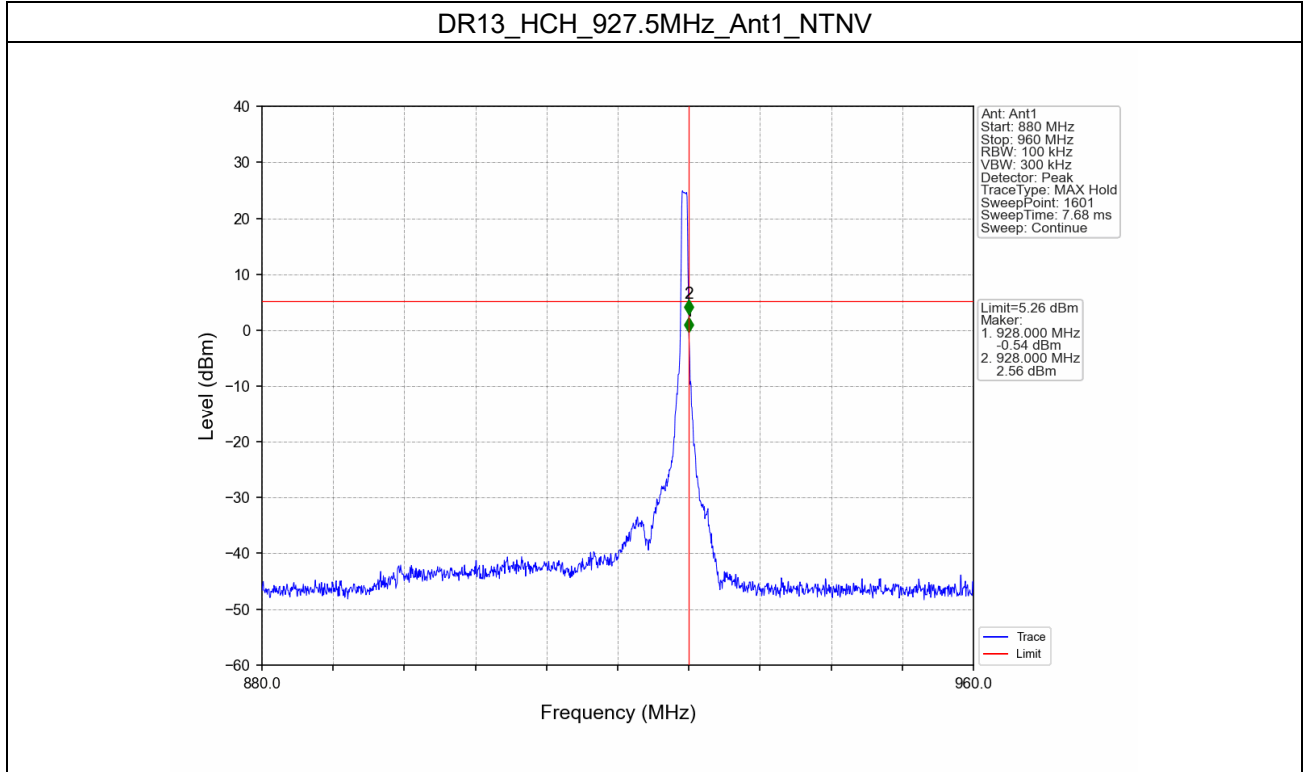
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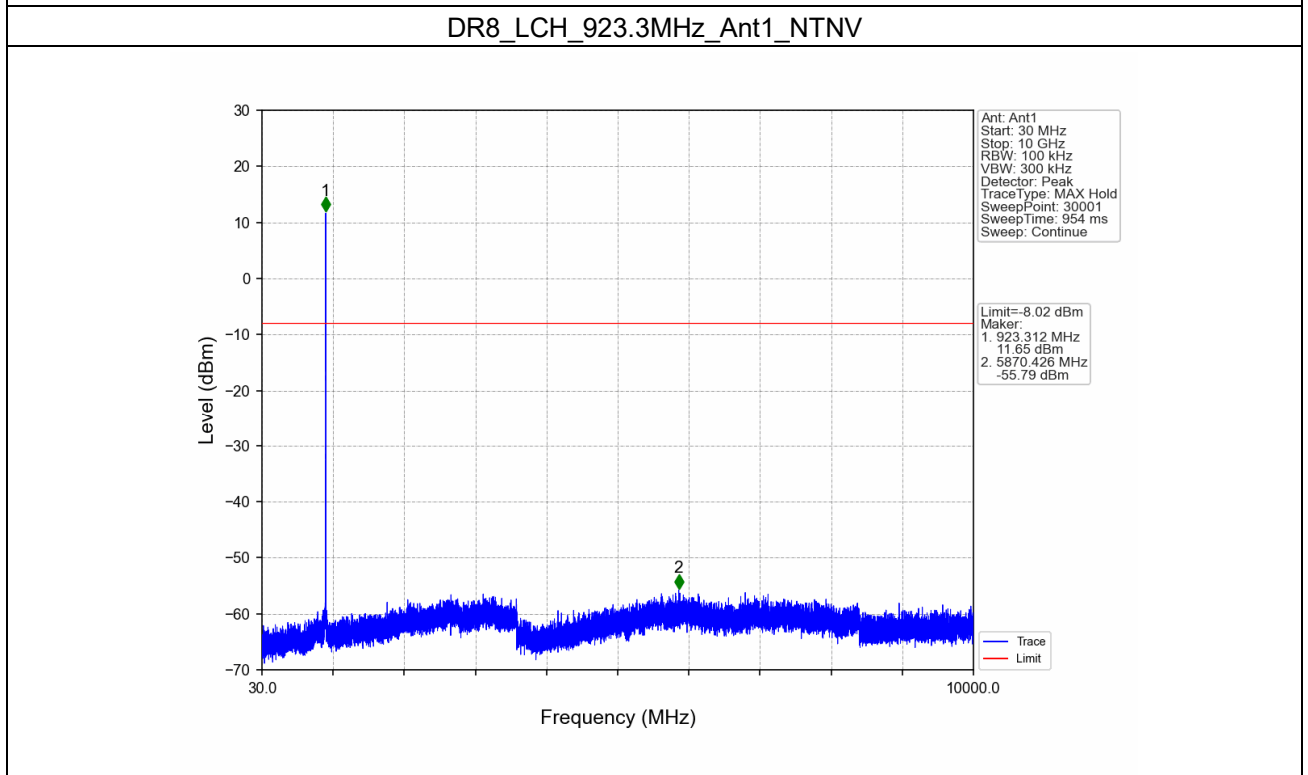
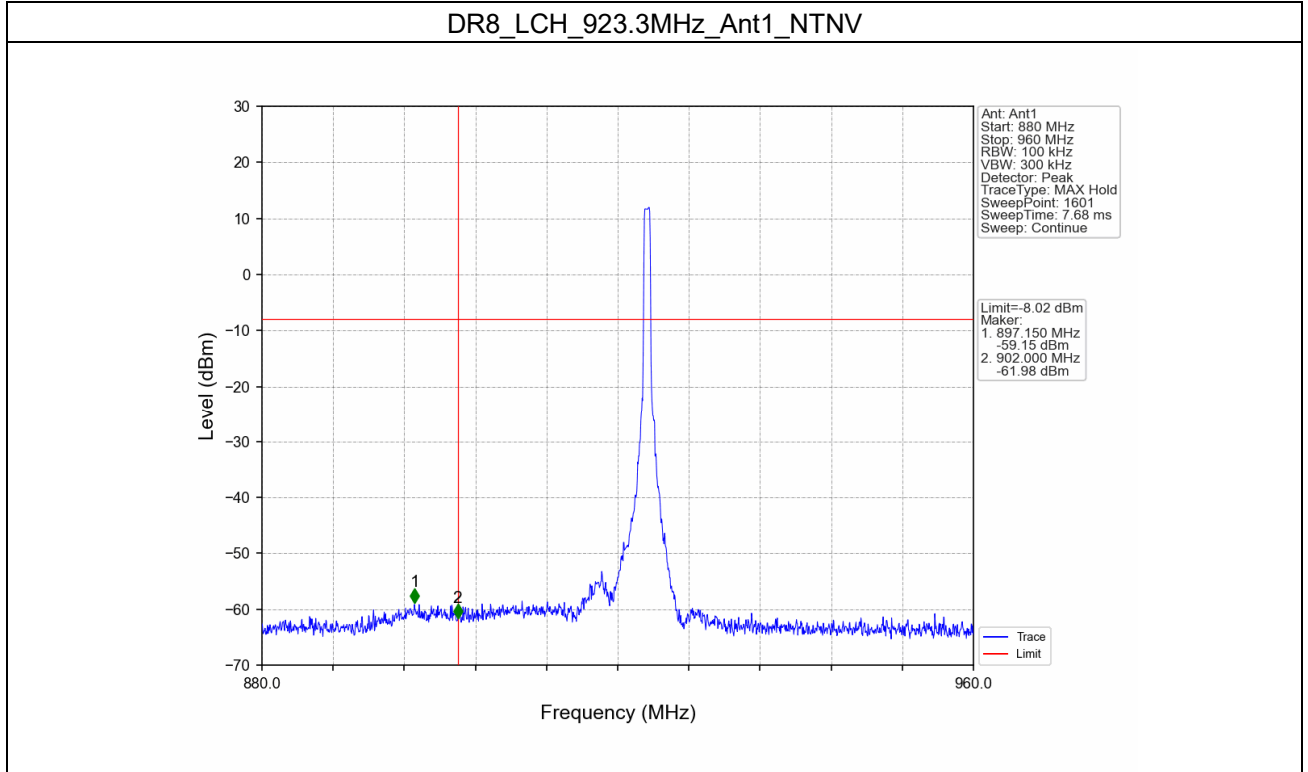
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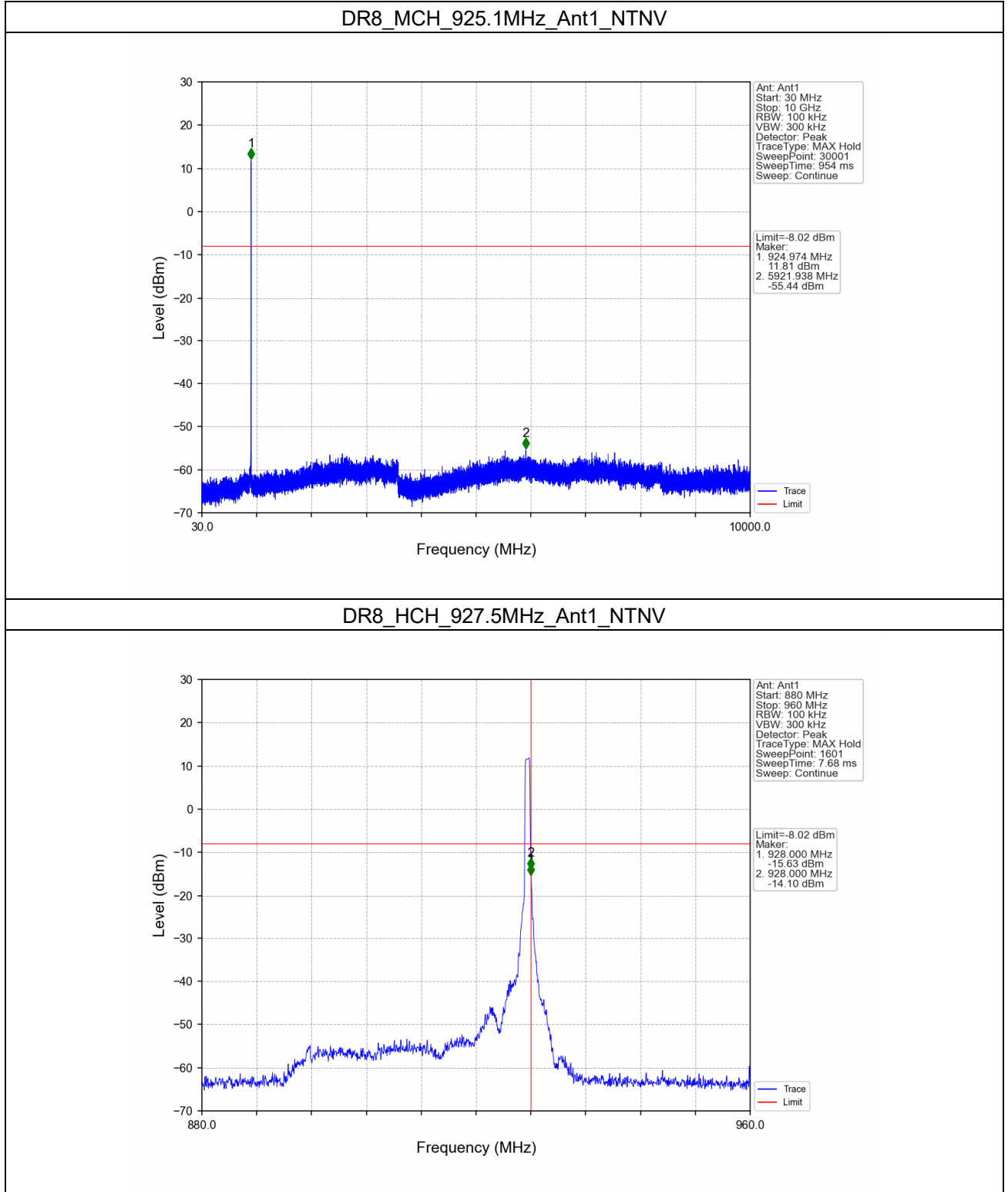
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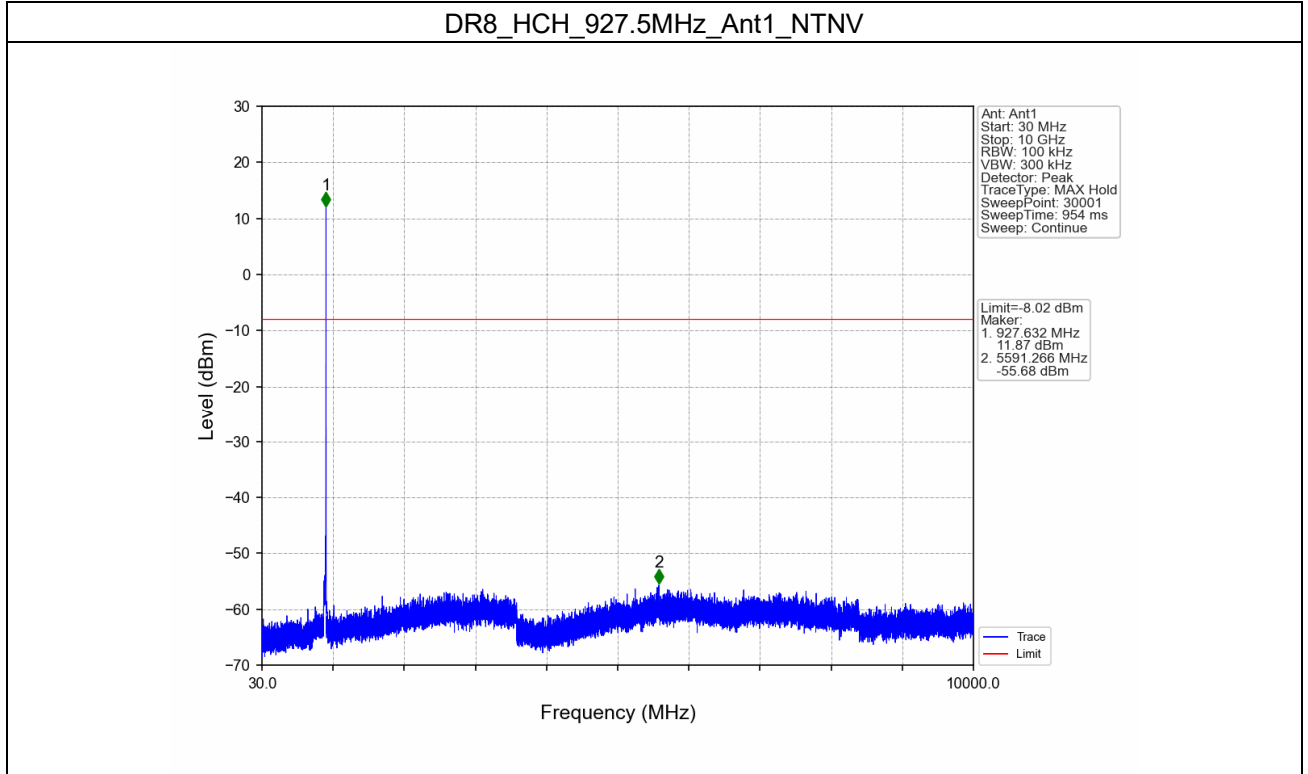


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- End of the Report -

