

TEST REPORT

Application No.: SZCR2603001139AT
Applicant: Minut, Inc.
Address of Applicant: 440 N Barranca Ave #8080, Covina, California 91723 United States
Manufacturer: Minut AB
Address of Manufacturer: Baltzarsgatan 23, 211 36 Malmö, Sweden
Factory: Scanfil Malmö AB
Address of Factory: Bronsyxegatan 6B, 213 75 Malmö, Sweden
Equipment Under Test (EUT):
EUT Name: Minut Home Sensor
Model No.: E1-N, MT-ID01
Trade Mark: Minut
FCC ID: 2AFXO-ID01
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-03-25
Date of Test: 2026-05-09 to 2026-08-06
Date of Issue: 2026-08-07

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-07		Original

Authorized for issue by:				
		Gebin Sun		
		Gebin Sun/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(2)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10 (2020) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10 (2020) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(i)	Pass
Dwell Time		ANSI C63.10 (2020) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(i)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: AC85-240V, 50/60Hz or PoE or DC5V 500mA Max
Cable Loss (for RF conducted test):	0.7dB
Modulation Type:	FSK
Antenna Type:	FPC Antenna
Antenna Gain:	2.24dBi

Channel Bandwidth (Hz):	100K	150K	225K	300K	450K
Operation Frequency (MHz):	902.2-927.8	902.2-927.8	902.4-927.6	902.4-927.6	902.6-927.2
Channel Spacing (Hz):	200K	200K	400K	400K	600K
Number of Channels:	129	129	64	64	42

Mode	100K			150K			225K			300K			450K		
TX Type	L/M/H			L/M/H			L/M/H			L/M/H			L/M/H		
Frequency (MHz)	902.2	915	927.8	902.2	915	927.8	902.4	914.8	927.6	902.4	914.8	927.6	902.6	914.6	927.2

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357	REF. No.SEA05A03C

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.2dB
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Maximum Conducted Output Power	± 0.4dB
20dB Bandwidth	± 0.3%
Carrier Frequencies Separation	± 5.4 x 10 ⁻⁸
Hopping Channel Number	± 5.4 x 10 ⁻⁸
Dwell Time	± 0.3%
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB



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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.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05 2026-07-04	2026-07-04 2027-07-03
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25 2026-04-01	2026-07-24 2027-03-31
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2026-03-29	2029-03-28
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25 2026-03-31	2026-07-24 2027-03-30
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05 2026-07-04	2026-07-04 2027-07-03
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2026-03-21	2027-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25 2026-03-31	2026-07-24 2027-03-30
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2026-02-02	2027-02-01
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2026-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05 2026-07-04	2026-07-04 2027-07-03



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2027-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05 2026-07-04	2026-07-04 2027-07-03
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	TST PASS	LNA180400G40	SEM005-39	2026-04-28	2027-04-27

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2026-02-04	2027-02-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2026-02-03	2027-02-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05 2026-07-04	2026-07-04 2027-07-03
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23 2026-07-08	2026-07-22 2027-07-07
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.24dBi.

Antenna location: Refer to internal photos.



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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 (2020) Section 6.2

Test Engineer: Mason Wu

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: 23.4 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



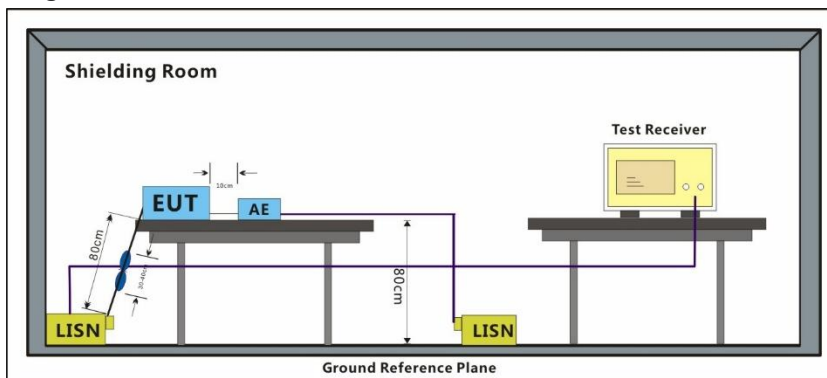
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

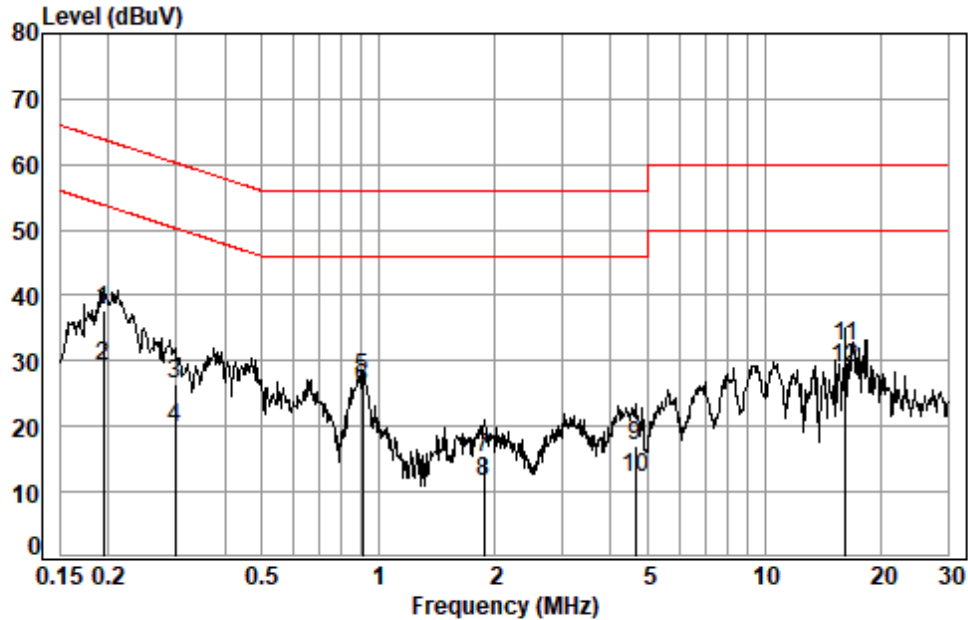
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300113904

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Test Mode: 07; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01439AT
Test mode: 07

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1945	0.06	9.84	27.87	37.77	63.84	-26.07 QP
2	0.1945	0.06	9.84	19.39	29.29	53.84	-24.55 Average
3	0.2987	0.07	9.75	16.78	26.60	60.28	-33.68 QP
4	0.2987	0.07	9.75	10.07	19.89	50.28	-30.39 Average
5	0.9087	0.10	9.64	17.61	27.35	56.00	-28.65 QP
6 *	0.9087	0.10	9.64	16.09	25.83	46.00	-20.17 Average
7	1.8779	0.11	9.65	5.49	15.25	56.00	-40.75 QP
8	1.8779	0.11	9.65	1.88	11.64	46.00	-34.36 Average
9	4.6223	0.13	9.64	7.27	17.04	56.00	-38.96 QP
10	4.6223	0.13	9.64	2.37	12.14	46.00	-33.86 Average
11	16.2256	0.29	9.63	22.18	32.10	60.00	-27.90 QP
12	16.2256	0.29	9.63	18.94	28.86	50.00	-21.14 Average



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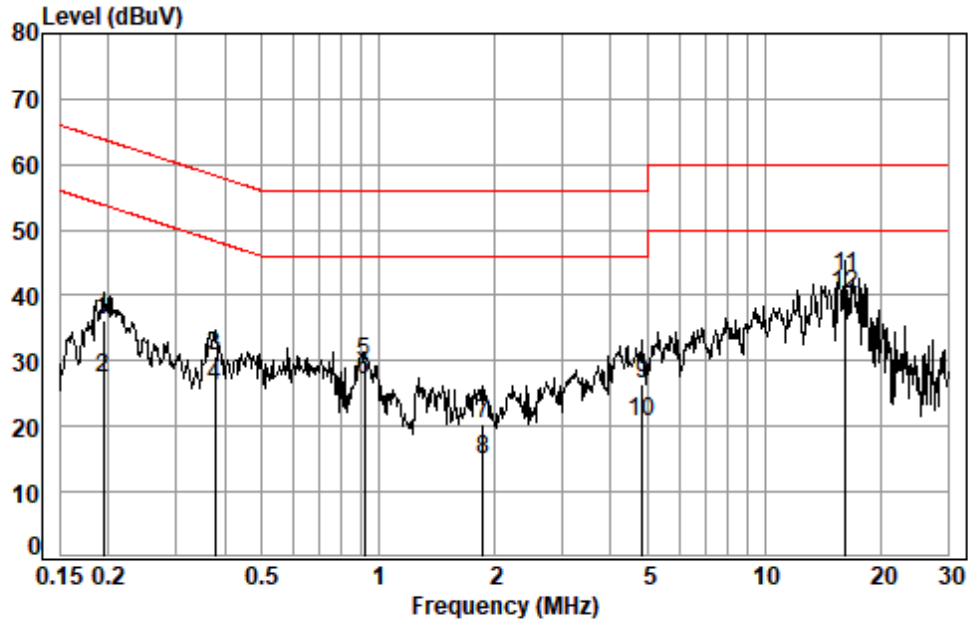
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300113904

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Test Mode: 07; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01439AT
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1945	0.06	9.83	26.46	36.35	63.84	-27.49	QP
2	0.1945	0.06	9.83	17.46	27.35	53.84	-26.49	Average
3	0.3771	0.07	9.74	20.89	30.70	58.34	-27.64	QP
4	0.3771	0.07	9.74	16.20	26.01	48.34	-22.33	Average
5	0.9233	0.10	9.61	20.08	29.79	56.00	-26.21	QP
6	0.9233	0.10	9.61	17.27	26.98	46.00	-19.02	Average
7	1.8680	0.11	9.63	10.58	20.32	56.00	-35.68	QP
8	1.8680	0.11	9.63	5.06	14.80	46.00	-31.20	Average
9	4.8224	0.13	9.64	16.82	26.59	56.00	-29.41	QP
10	4.8224	0.13	9.64	10.95	20.72	46.00	-25.28	Average
11 *	16.2256	0.29	9.62	33.02	42.93	60.00	-17.07	QP
12 *	16.2256	0.29	9.62	30.14	40.05	50.00	-9.95	Average



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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu

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

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



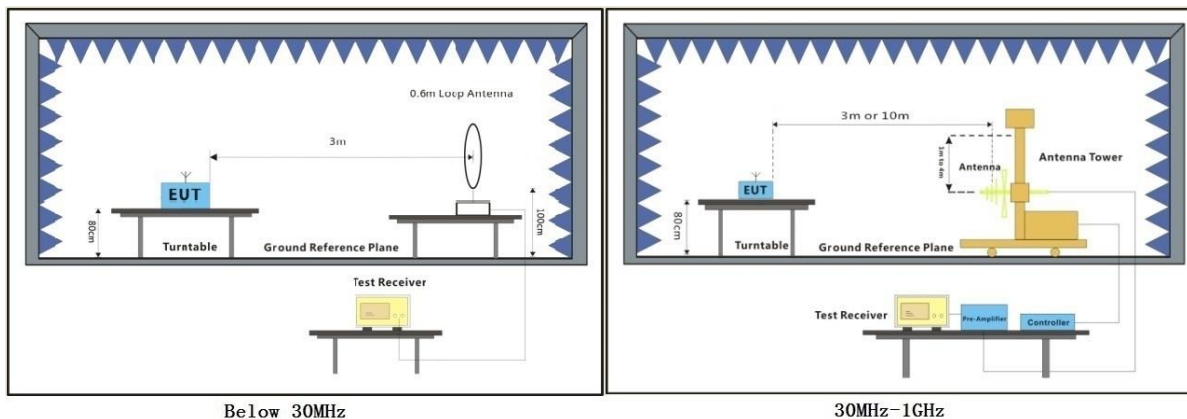
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

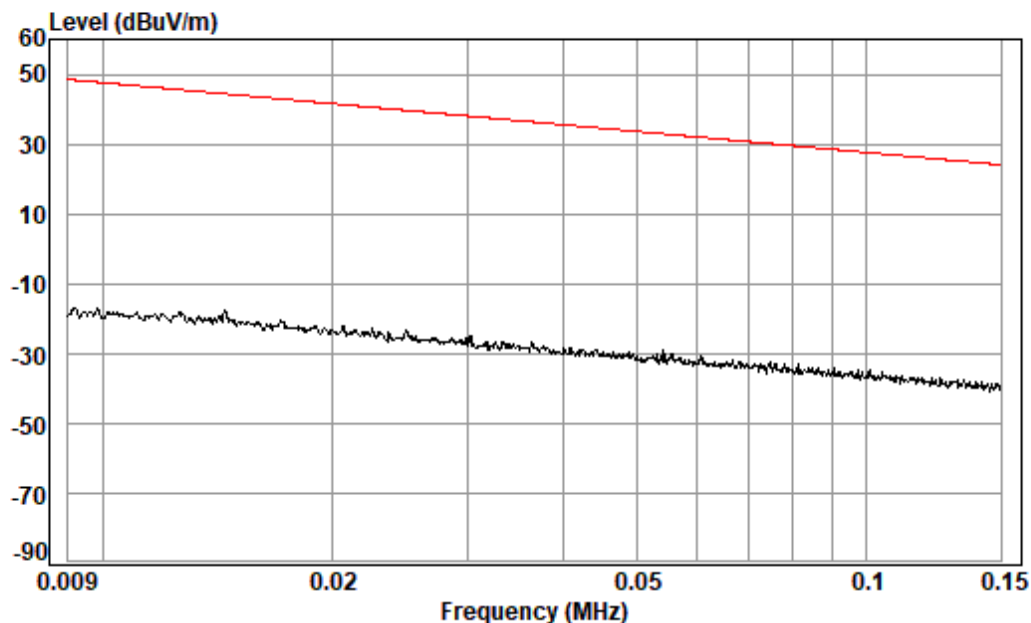


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Condition: 3m
 Job No. : 01139AT
 Test Mode: 07
 : coaxial

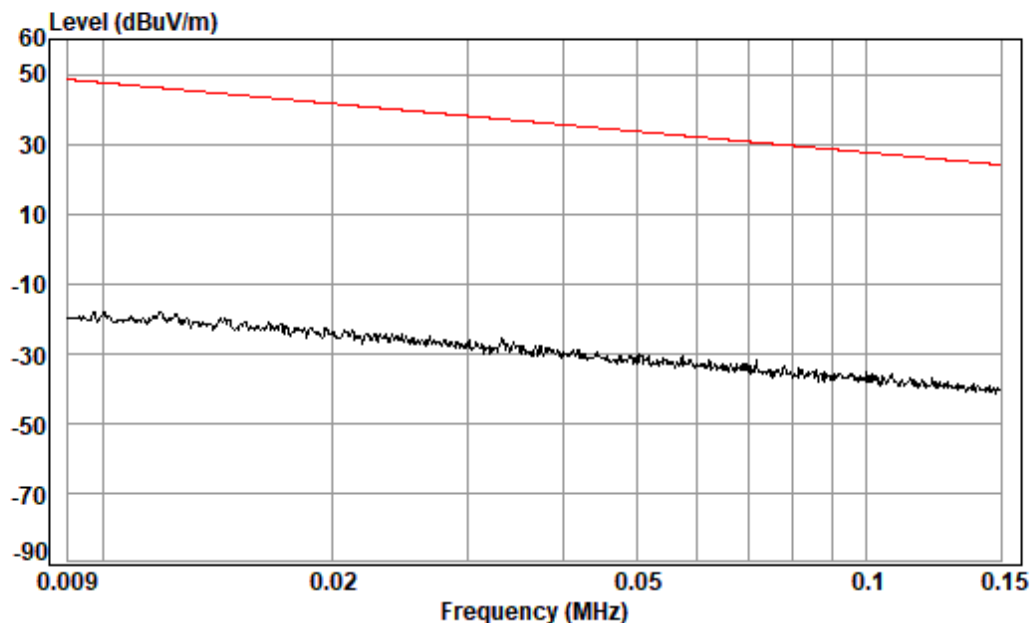


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Condition: 3m

Job No. : 01139AT

Test Mode: 07

: coplanar

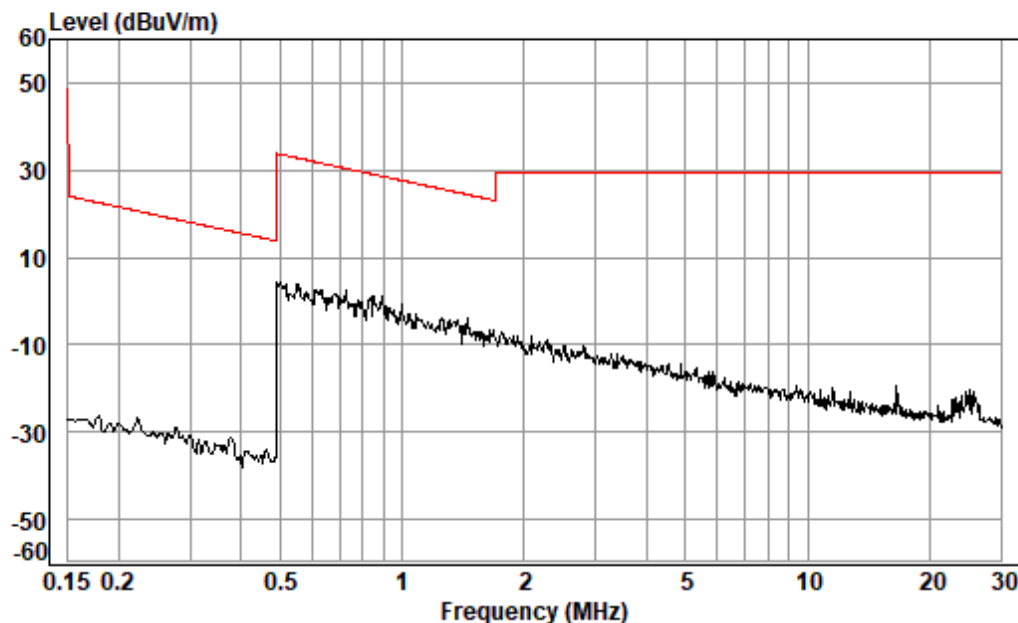


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Condition: 3m
 Job No. : 01139AT
 Test Mode: 07
 : coaxial

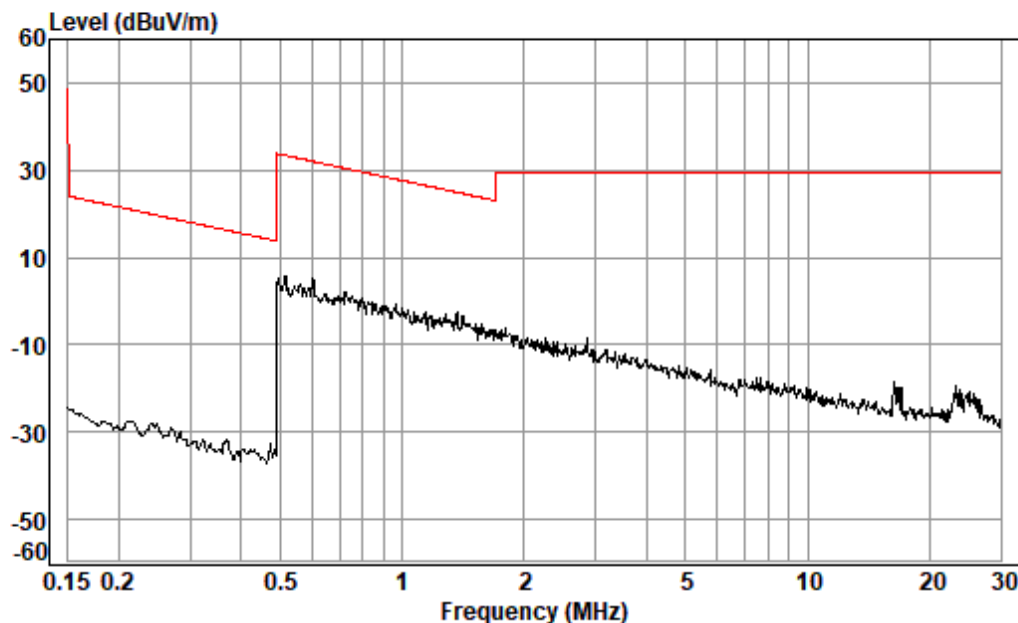


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Condition: 3m
 Job No. : 01139AT
 Test Mode: 07
 : coplanar

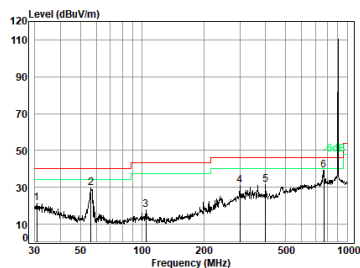


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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

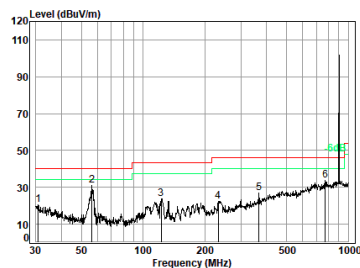
BW 100K CH L H



Condition: 3m HORIZONTAL
Job No. : 01139AT/01140AT
Mode : 100K-902.2M

	Ant Freq	Cable Factor	Preamp Loss	Level dB	Level dBuV	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.638	20.90	0.75	27.54	27.42	21.53	40.00	-18.47	
2	56.395	11.81	0.91	26.80	43.75	29.67	40.00	-10.33	
3	104.170	12.22	1.25	26.25	30.79	18.01	43.50	-25.49	
4	300.367	18.05	2.11	28.20	39.07	31.03	46.00	-14.97	
5	400.432	20.60	2.49	27.87	36.28	31.50	46.00	-14.50	
6	768.748	26.68	3.61	26.80	35.63	39.12	46.00	-6.88	

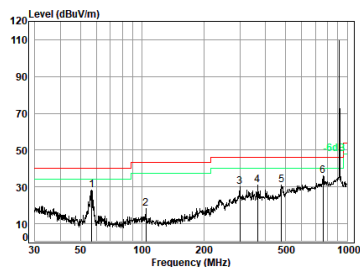
BW 100K CH L V



Condition: 3m VERTICAL
Job No. : 01139AT/01140AT
Mode : 100K-902.2M

	Ant Freq	Cable Loss	Preamp Factor	Level dB	Level dBuV	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.745	20.86	0.75	27.53	26.55	20.63	40.00	-19.37	
2	56.395	11.81	0.91	26.80	45.11	31.03	40.00	-8.97	
3	122.404	11.00	1.36	26.86	38.34	23.84	43.50	-19.66	
4	232.532	16.77	1.85	28.51	32.46	22.57	46.00	-23.43	
5	366.823	20.35	2.38	27.97	31.95	26.71	46.00	-19.29	
6	774.158	26.84	3.62	26.78	30.27	33.95	46.00	-12.05	

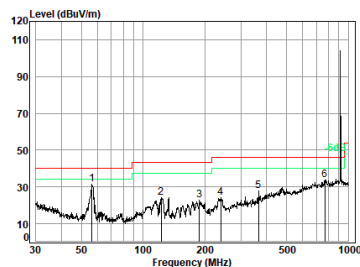
BW 100K CH M H



Condition: 3m HORIZONTAL
Job No. : 01139AT/01140AT
Mode : 100K-915M

	Ant Freq	Cable Loss	Preamp Factor	Level dB	Level dBuV	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.792	11.77	0.91	26.79	42.36	28.25	40.00	-11.75	
2	104.170	12.22	1.25	26.25	30.83	18.05	43.50	-25.45	
3	300.367	18.05	2.11	28.20	37.99	29.95	46.00	-16.05	
4	365.539	20.31	2.37	27.97	36.47	31.18	46.00	-14.82	
5	478.846	22.68	2.75	27.66	33.47	31.24	46.00	-14.76	
6	763.376	26.52	3.59	26.81	32.73	36.03	46.00	-9.97	

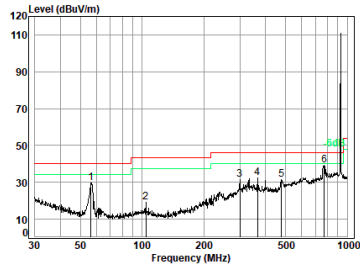
BW 100K CH M V



Condition: 3m VERTICAL
Job No. : 01139AT/01140AT
Mode : 100K-915M

	Ant Freq	Cable Loss	Preamp Factor	Level dB	Level dBuV	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	45.37	31.29	40.00	-8.71	
2	122.404	11.00	1.36	26.86	38.49	23.99	43.50	-19.51	
3	187.753	14.30	1.66	28.46	35.26	22.76	43.50	-20.74	
4	239.147	17.07	1.88	28.48	33.65	24.12	46.00	-21.88	
5	365.539	20.31	2.37	27.97	33.22	27.93	46.00	-18.07	
6	768.748	26.68	3.61	26.80	30.43	33.92	46.00	-12.08	

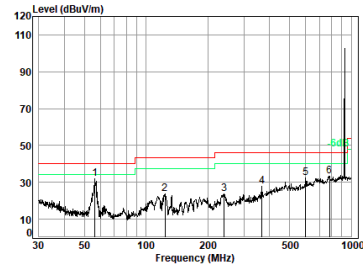
BW 100K CH H H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 100K-927.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	43.88	29.80	40.00	-10.20	
2	104.170	12.22	1.25	26.25	31.78	19.00	43.50	-24.50	
3	300.367	18.05	2.11	28.20	39.54	31.50	46.00	-14.50	
4	365.539	20.31	2.37	27.97	37.82	32.53	46.00	-13.47	
5	478.846	22.68	2.75	27.66	33.79	31.56	46.00	-14.44	
6	771.449	26.76	3.61	26.79	35.57	39.15	46.00	-6.85	

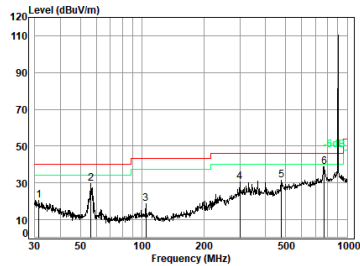
BW 100K CH H V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 100K-927.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	46.02	31.94	40.00	-8.06	
2	123.699	10.98	1.37	26.90	38.34	23.79	43.50	-19.71	
3	239.987	17.07	1.88	28.48	33.48	23.95	46.00	-22.05	
4	366.823	20.35	2.38	27.97	33.15	27.91	46.00	-18.09	
5	599.321	24.42	3.10	27.40	32.15	32.27	46.00	-13.73	
6	785.093	27.13	3.65	26.75	29.36	33.39	46.00	-12.61	

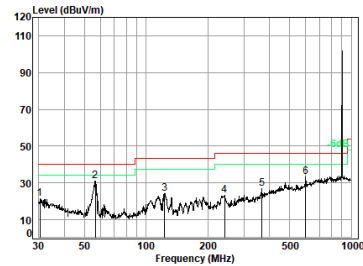
BW 150K CH L H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 150K-902.2M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.399	20.55	0.75	27.51	26.88	20.67	40.00	-19.33	
2	56.197	11.83	0.91	26.80	43.67	29.61	40.00	-10.39	
3	104.170	12.22	1.25	26.25	31.47	18.69	43.50	-24.81	
4	300.367	18.05	2.11	28.20	38.68	30.64	46.00	-15.36	
5	477.169	22.60	2.74	27.66	33.71	31.39	46.00	-14.61	
6	771.449	26.76	3.61	26.79	35.30	38.88	46.00	-7.12	

BW 150K CH L V

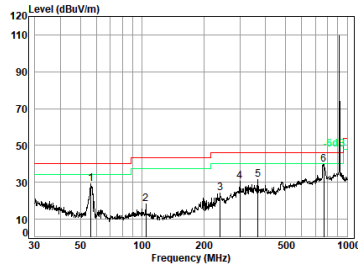


Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 150K-902.2M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.424	21.00	0.74	27.55	27.10	21.29	40.00	-18.71	
2	56.593	11.79	0.91	26.79	45.33	31.24	40.00	-8.76	
3	123.266	10.99	1.36	26.88	38.90	24.37	43.50	-19.13	
4	241.676	17.08	1.89	28.47	32.57	23.07	46.00	-22.93	
5	366.823	20.35	2.38	27.97	31.97	26.73	46.00	-19.27	
6	599.321	24.42	3.10	27.40	33.26	33.38	46.00	-12.62	



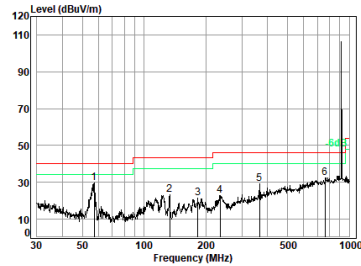
BW 150K CH M H



Condition: 3m HORIZONTAL
Job No. : 01139AT/01140AT
Mode : 150K-915M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.197	11.83	0.91	26.80	43.36	29.30	40.00	-10.70	
2	104.170	12.22	1.25	26.25	30.94	18.16	43.50	-25.34	
3	239.987	17.07	1.88	28.48	33.51	23.98	46.00	-22.02	
4	300.367	18.05	2.11	28.20	38.73	30.69	46.00	-15.31	
5	366.823	20.35	2.38	27.97	36.53	31.29	46.00	-14.71	
6	768.748	26.68	3.61	26.80	36.19	39.68	46.00	-6.32	

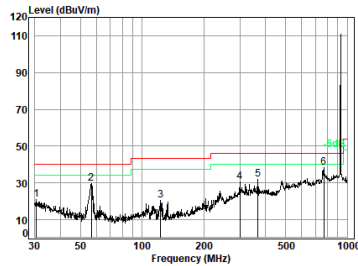
BW 150K CH M V



Condition: 3m VERTICAL
Job No. : 01139AT/01140AT
Mode : 150K-915M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.991	11.75	0.91	26.78	43.65	29.53	40.00	-10.47	
2	133.151	11.21	1.42	27.17	37.65	23.11	43.50	-20.39	
3	182.559	14.17	1.64	28.36	34.04	21.49	43.50	-22.01	
4	234.991	17.07	1.86	28.50	32.36	22.79	46.00	-23.21	
5	365.539	20.31	2.37	27.97	34.55	29.26	46.00	-16.74	
6	763.376	26.52	3.59	26.81	29.24	32.54	46.00	-13.46	

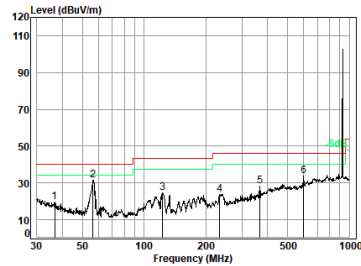
BW 150K CH H H



Condition: 3m HORIZONTAL
Job No. : 01139AT/01140AT
Mode : 150K-927.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.74	27.54	26.85	21.00	40.00	-19.00	
2	56.593	11.79	0.91	26.79	43.79	29.70	40.00	-10.30	
3	122.834	10.99	1.36	26.87	34.99	20.47	43.50	-23.03	
4	299.316	17.94	2.11	28.20	38.57	30.42	46.00	-15.58	
5	366.823	20.35	2.38	27.97	37.00	31.76	46.00	-14.24	
6	768.748	26.68	3.61	26.80	34.86	38.35	46.00	-7.65	

BW 150K CH H V

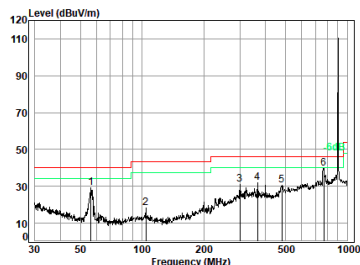


Condition: 3m VERTICAL
Job No. : 01139AT/01140AT
Mode : 150K-927.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.637	17.95	0.80	27.32	28.24	19.67	40.00	-20.33	
2	56.395	11.81	0.91	26.80	45.46	31.38	40.00	-8.62	
3	122.834	10.99	1.36	26.87	39.18	24.66	43.50	-18.84	
4	233.349	16.87	1.86	28.51	33.62	23.84	46.00	-22.16	
5	366.823	20.35	2.38	27.97	33.34	28.10	46.00	-17.90	
6	599.321	24.42	3.10	27.40	33.64	33.76	46.00	-12.24	



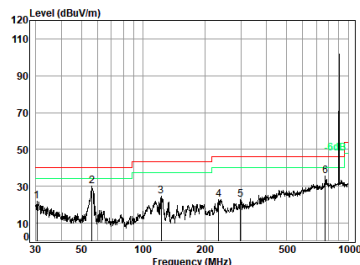
BW 225K CH L H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 225K-902.4M

	Ant	Cable	Preamp	Read	Level	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	43.47	29.39	40.00	-10.61
2	104.170	12.22	1.25	26.25	31.68	18.32	43.50	-25.18
3	300.367	18.05	2.11	28.20	39.04	31.00	46.00	-15.00
4	365.539	20.31	2.37	27.97	37.31	32.02	46.00	-13.98
5	480.528	22.75	2.75	27.66	32.79	30.63	46.00	-15.37
6	768.748	26.68	3.61	26.80	36.29	39.78	46.00	-6.22

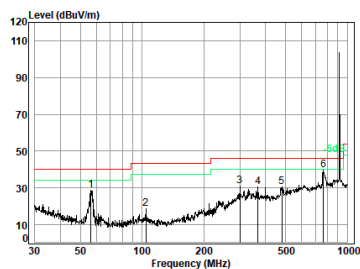
BW 225K CH L V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 225K-902.4M

	Ant	Cable	Preamp	Read	Level	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.317	21.05	0.74	27.55	27.69	21.93	40.00	-18.07
2	56.395	11.81	0.91	26.80	44.13	30.05	40.00	-9.95
3	122.404	11.00	1.36	26.86	39.13	24.63	43.50	-18.87
4	233.349	16.87	1.86	28.51	32.56	22.78	46.00	-23.22
5	298.268	17.82	2.10	28.21	30.94	22.65	46.00	-23.35
6	774.158	26.84	3.62	26.78	31.73	35.41	46.00	-10.59

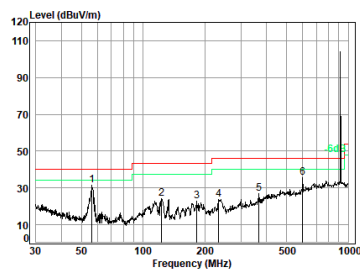
BW 225K CH M H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 225K-914.8M

	Ant	Cable	Preamp	Read	Level	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	42.78	28.70	40.00	-11.30
2	104.170	12.22	1.25	26.25	31.68	18.90	43.50	-24.60
3	300.367	18.05	2.11	28.20	39.00	30.96	46.00	-15.04
4	366.823	20.35	2.38	27.97	35.62	30.38	46.00	-15.62
5	480.528	22.75	2.75	27.66	32.74	30.58	46.00	-15.42
6	766.057	26.59	3.60	26.81	36.50	39.88	46.00	-6.12

BW 225K CH M V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 225K-914.8M

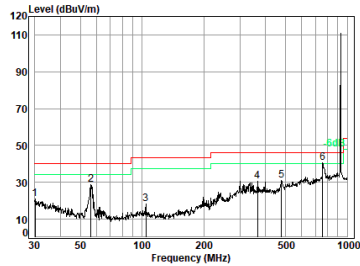
	Ant	Cable	Preamp	Read	Level	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.197	11.83	0.91	26.80	45.44	31.38	40.00	-8.62
2	122.834	10.99	1.36	26.87	38.72	24.20	43.50	-19.30
3	182.559	14.17	1.64	28.36	35.57	23.02	43.50	-20.48
4	233.349	16.87	1.86	28.51	33.39	23.61	46.00	-22.39
5	366.823	20.35	2.38	27.97	31.98	26.74	46.00	-19.26
6	599.321	24.42	3.10	27.40	35.51	35.63	46.00	-10.37



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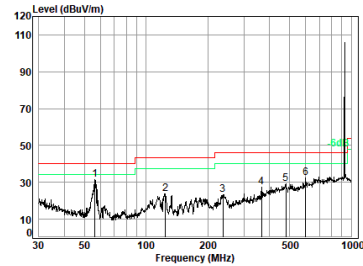
BW 225K CH H H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 225K-927.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.185	21.15	0.74	27.56	26.76	21.09	40.00	-18.91	
2	56.395	11.81	0.91	26.80	43.05	28.97	40.00	-11.03	
3	104.170	12.22	1.25	26.25	30.93	18.15	43.50	-25.35	
4	365.539	20.31	2.37	27.97	35.90	30.61	46.00	-15.39	
5	478.846	22.68	2.75	27.66	33.17	30.94	46.00	-15.06	
6	758.041	26.48	3.58	26.83	37.25	40.48	46.00	-5.52	

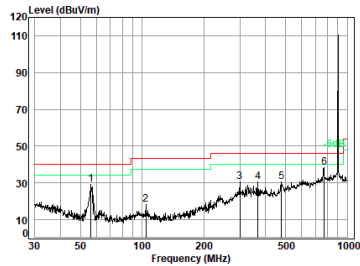
BW 225K CH H V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 225K-927.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.197	11.83	0.91	26.80	45.45	31.39	40.00	-8.61	
2	124.133	10.98	1.37	26.91	38.32	23.76	43.50	-19.74	
3	237.476	17.07	1.87	28.49	33.81	23.46	46.00	-22.54	
4	365.539	20.31	2.37	27.97	32.77	27.48	46.00	-18.52	
5	488.528	22.75	2.75	27.66	31.42	29.26	46.00	-16.74	
6	599.321	24.42	3.10	27.40	32.07	32.19	46.00	-13.81	

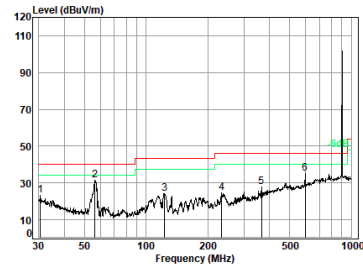
BW 300K CH L H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 300K-902.4M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	43.47	29.39	40.00	-10.61	
2	104.170	12.22	1.25	26.25	31.06	18.28	43.50	-25.22	
3	299.316	17.94	2.11	28.20	38.82	30.67	46.00	-15.33	
4	366.823	20.35	2.38	27.97	36.00	30.76	46.00	-15.24	
5	478.846	22.68	2.75	27.66	33.02	30.79	46.00	-15.21	
6	771.449	26.76	3.61	26.79	34.57	38.15	46.00	-7.85	

BW 300K CH L V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 300K-902.4M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.74	27.54	29.01	23.16	40.00	-16.84	
2	56.395	11.81	0.91	26.80	45.70	31.62	40.00	-8.38	
3	122.834	10.99	1.36	26.87	38.78	24.26	43.50	-19.24	
4	233.349	16.87	1.86	28.51	34.21	24.43	46.00	-21.57	
5	365.539	20.31	2.37	27.97	32.90	27.61	46.00	-18.39	
6	597.223	24.44	3.09	27.41	35.01	35.13	46.00	-10.87	

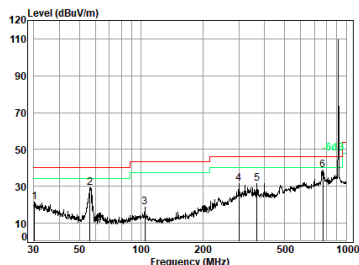


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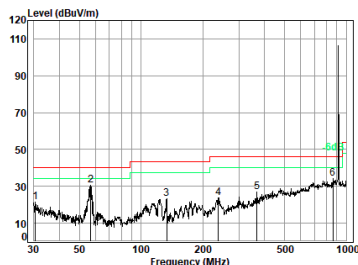
BW 300K CH M H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 300K-914.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.10	0.74	27.56	27.22	21.50	40.00	-18.50	
2	56.395	11.81	0.91	26.80	43.36	29.28	40.00	-10.72	
3	104.170	12.22	1.25	26.25	31.62	18.84	43.50	-24.66	
4	299.316	17.94	2.11	28.20	39.55	31.40	46.00	-14.60	
5	366.823	20.35	2.38	27.97	36.82	31.58	46.00	-14.42	
6	768.748	26.68	3.61	26.80	35.35	38.84	46.00	-7.16	

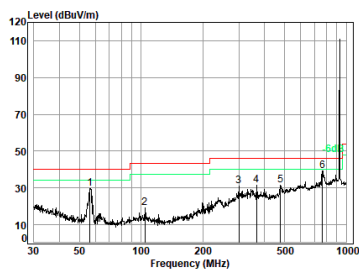
BW 300K CH M V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 300K-914.8M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.74	27.54	27.47	21.62	40.00	-18.38	
2	56.792	11.77	0.91	26.79	44.57	30.46	40.00	-9.54	
3	133.151	11.21	1.42	27.17	37.81	23.27	43.50	-20.23	
4	238.310	17.07	1.88	28.48	33.23	23.70	46.00	-22.30	
5	366.823	20.35	2.38	27.97	32.09	26.85	46.00	-19.15	
6	860.035	27.29	3.87	26.99	30.22	34.39	46.00	-11.61	

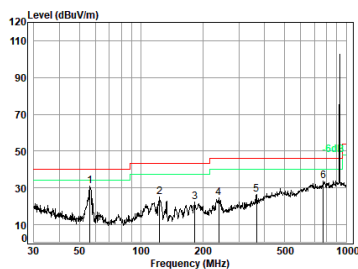
BW 300K CH H H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 300K-927.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	43.85	29.77	40.00	-10.23	
2	104.170	12.22	1.25	26.25	31.99	19.21	43.50	-24.29	
3	300.367	18.05	2.11	28.20	38.86	30.82	46.00	-15.18	
4	365.539	20.31	2.37	27.97	36.97	31.68	46.00	-14.32	
5	477.169	22.60	2.74	27.66	33.81	31.49	46.00	-14.51	
6	766.057	26.59	3.60	26.81	35.89	39.27	46.00	-6.73	

BW 300K CH H V

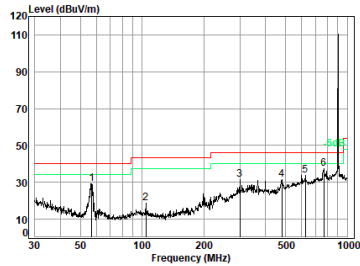


Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 300K-927.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.91	26.80	45.23	31.15	40.00	-8.85	
2	122.834	10.99	1.36	26.87	39.47	24.95	43.50	-18.55	
3	182.559	14.17	1.64	28.36	34.79	22.24	43.50	-21.26	
4	239.147	17.07	1.88	28.48	34.04	24.51	46.00	-21.49	
5	365.539	20.31	2.37	27.97	31.76	26.47	46.00	-19.53	
6	774.158	26.84	3.62	26.78	29.87	33.55	46.00	-12.45	



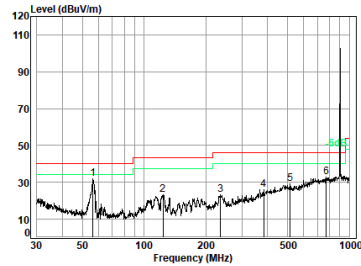
BW 450K CH L H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 450K-902.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Limit	dB
1	56.792	11.77	0.91	26.79	43.48	29.37	40.00	-10.63	
2	104.170	12.22	1.25	26.25	31.66	18.88	43.50	-24.62	
3	300.367	18.05	2.11	28.20	39.58	31.54	46.00	-14.46	
4	480.528	22.75	2.75	27.66	33.43	31.27	46.00	-14.73	
5	625.078	25.06	3.18	27.30	33.04	33.98	46.00	-12.02	
6	768.748	26.68	3.61	26.80	33.84	37.33	46.00	-8.67	

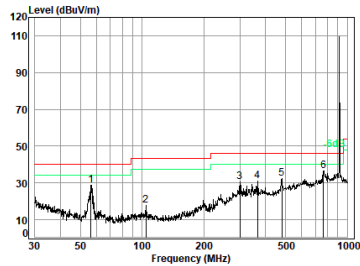
BW 450K CH L V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 450K-902.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Limit	dB
1	56.395	11.81	0.91	26.80	45.99	31.91	40.00	-8.09	
2	123.699	10.98	1.37	26.90	37.99	23.44	43.50	-20.06	
3	235.816	17.07	1.87	28.50	32.86	23.30	46.00	-22.70	
4	382.588	20.90	2.43	27.92	30.64	26.05	46.00	-19.95	
5	515.437	23.30	2.86	27.58	30.68	29.26	46.00	-16.74	
6	771.449	26.76	3.61	26.79	29.22	32.80	46.00	-13.20	

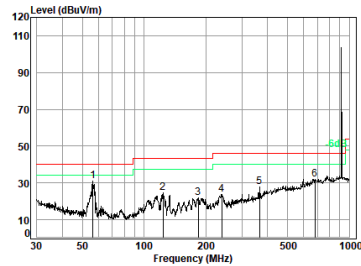
BW 450K CH M H



Condition: 3m HORIZONTAL
Job No.: 01139AT/01140AT
Mode: 450K-914.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Limit	dB
1	56.197	11.83	0.91	26.80	43.00	28.94	40.00	-11.06	
2	104.170	12.22	1.25	26.25	30.60	17.82	43.50	-25.68	
3	299.316	17.94	2.11	28.20	38.57	30.42	46.00	-15.58	
4	365.539	20.31	2.37	27.97	36.33	31.04	46.00	-14.96	
5	480.528	22.75	2.75	27.66	34.35	32.19	46.00	-13.81	
6	766.057	26.59	3.60	26.81	33.32	36.70	46.00	-9.30	

BW 450K CH M V



Condition: 3m VERTICAL
Job No.: 01139AT/01140AT
Mode: 450K-914.6M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Limit	dB
1	56.395	11.81	0.91	26.80	45.08	31.00	40.00	-9.00	
2	123.699	10.98	1.37	26.90	39.20	24.65	43.50	-18.85	
3	183.844	14.22	1.64	28.38	34.30	21.78	43.50	-21.72	
4	239.147	17.07	1.88	28.48	33.15	23.62	46.00	-22.38	
5	365.539	20.31	2.37	27.97	33.24	27.95	46.00	-18.05	
6	682.348	25.80	3.36	27.09	30.01	32.08	46.00	-13.92	

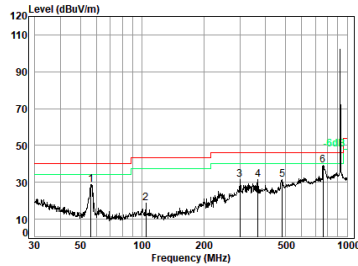


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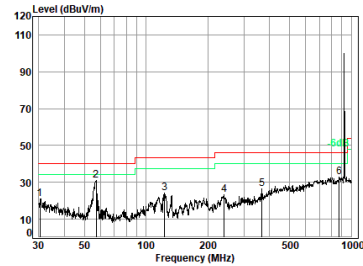
BW 450K CH H H



Condition: 3m HORIZONTAL
Job No. : 01139AT/01140AT
Mode : 450K-927.2M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Line	Limit
1	56.395	11.81	0.91	26.80	42.89	28.81	40.00	-11.19	
2	104.170	12.22	1.25	26.25	31.31	18.53	43.50	-24.97	
3	300.367	18.05	2.11	28.20	39.40	31.36	46.00	-14.64	
4	366.823	20.35	2.38	27.97	36.62	31.38	46.00	-14.62	
5	482.216	22.80	2.76	27.65	33.38	31.29	46.00	-14.71	
6	760.704	26.47	3.58	26.82	35.87	39.10	46.00	-6.90	

BW 450K CH H V



Condition: 3m VERTICAL
Job No. : 01139AT/01140AT
Mode : 450K-927.2M

	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over	Remark
	MHz	Factor	Loss	Factor	Level	dBuV	dBuV/m	Line	Limit
1	30.317	21.05	0.74	27.55	26.95	21.19	40.00	-18.81	
2	56.991	11.75	0.91	26.78	44.96	30.84	40.00	-9.16	
3	122.834	10.99	1.36	26.87	38.65	24.13	43.50	-19.37	
4	239.987	17.07	1.88	28.48	32.85	23.32	46.00	-22.68	
5	366.823	20.35	2.38	27.97	31.79	26.55	46.00	-19.45	
6	875.247	27.67	3.91	27.06	28.24	32.76	46.00	-13.24	

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300113904

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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.6 & 7.8.8
 Measurement Distance: 3m
 Test Engineer: Logic Wang

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



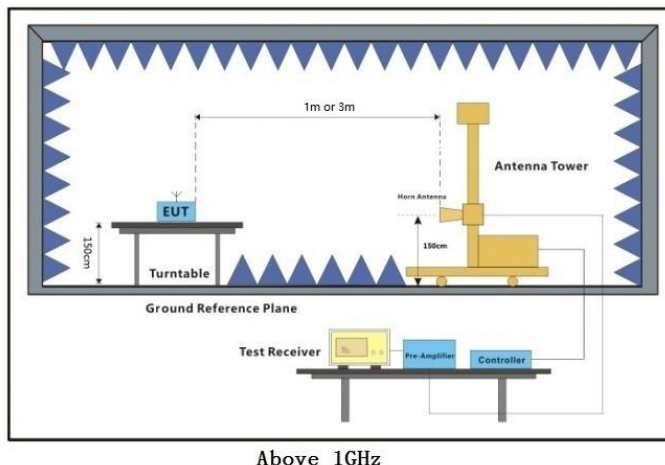
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. 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.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. 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.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $<98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



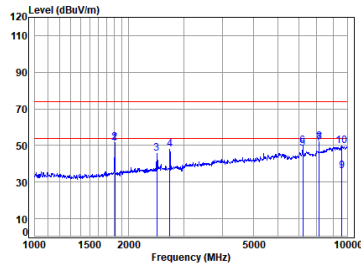
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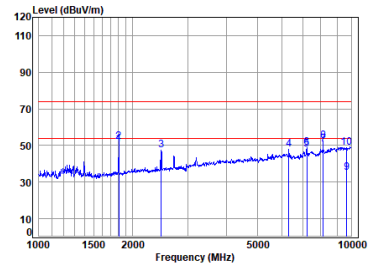
BW 100K CH L H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 902.2 RSE TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	1803.018	5.00	26.99	54.67	73.60	50.92	-3.88 Average	0.00
2	1803.018	5.00	26.99	54.67	74.05	51.37	-22.63 Peak	0.00
3	2454.789	5.30	29.11	54.70	65.61	45.40	-20.60 Peak	0.00
4	2703.958	5.62	29.72	54.70	67.33	47.97	-26.83 Peak	0.00
5	7211.075	8.50	36.21	53.33	57.03	48.41	-5.59 Average	0.00
6	7211.075	8.50	36.21	53.33	58.41	49.79	-24.21 Peak	0.00
7	8128.305	9.21	36.67	53.79	58.88	50.97	-3.03 Average	0.00
8	8128.305	9.21	36.67	53.79	59.86	51.95	-22.05 Peak	0.00
9	9616.123	10.73	37.90	53.20	40.42	35.85	-18.15 Average	0.00
10	9616.123	10.73	37.90	53.20	54.31	49.74	-24.26 Peak	0.00

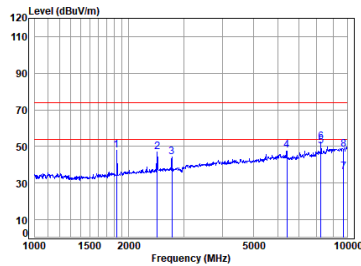
BW 100K CH L V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 902.2 RSE TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	1803.018	5.00	26.99	54.67	73.38	50.70	-3.30 Average	0.00
2	1803.018	5.00	26.99	54.67	74.76	52.08	-21.92 Peak	0.00
3	2454.789	5.39	29.13	54.70	67.49	47.31	-26.68 Peak	0.00
4	2703.958	5.90	35.34	53.27	56.96	47.01	-26.07 Peak	0.00
5	7211.075	8.50	36.21	53.33	56.66	48.04	-5.96 Average	0.00
6	7211.075	8.50	36.21	53.33	57.50	48.88	-25.12 Peak	0.00
7	8128.305	9.21	36.67	53.79	58.65	50.74	-3.26 Average	0.00
8	8128.305	9.21	36.67	53.79	60.15	52.24	-21.76 Peak	0.00
9	9682.778	10.71	37.83	53.14	39.71	35.11	-18.89 Average	0.00
10	9682.778	10.71	37.83	53.14	53.21	48.61	-25.39 Peak	0.00

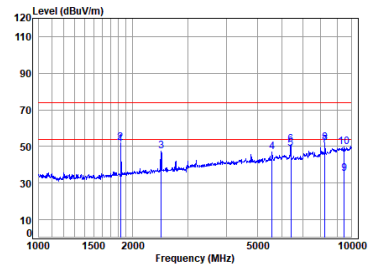
BW 100K CH M H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 915.0 RSE TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	1828.100	5.00	26.94	54.67	70.68	47.95	-26.05 Peak	0.00
2	2466.039	5.39	29.13	54.70	67.04	46.86	-27.14 Peak	0.00
3	2747.034	5.66	29.99	54.70	63.19	44.14	-29.06 Peak	0.00
4	6412.096	8.89	34.85	53.26	57.21	47.69	-26.31 Peak	0.00
5	8241.381	9.33	37.00	53.77	57.85	50.41	-3.59 Average	0.00
6	8241.381	9.33	37.00	53.77	60.07	52.63	-21.37 Peak	0.00
7	9727.473	10.70	37.74	53.11	40.57	35.90	-18.10 Average	0.00
8	9727.473	10.70	37.74	53.11	53.03	48.36	-25.64 Peak	0.00

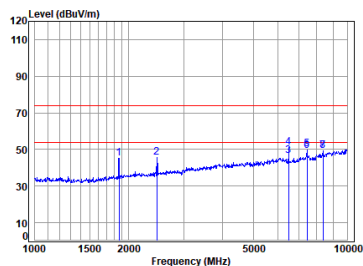
BW 100K CH M V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 915.0 RSE TX

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	1828.100	5.00	26.94	54.67	73.69	50.96	-3.04 Average	0.00
2	1828.100	5.00	26.94	54.67	74.93	52.20	-21.80 Peak	0.00
3	2466.039	5.39	29.13	54.70	67.42	47.24	-26.76 Peak	0.00
4	5584.702	8.30	35.01	53.61	57.26	46.96	-27.04 Peak	0.00
5	6412.096	8.89	34.85	53.26	58.44	48.92	-5.08 Average	0.00
6	6412.096	8.89	34.85	53.26	60.65	51.13	-22.87 Peak	0.00
7	8241.381	9.33	37.00	53.77	58.13	50.69	-3.31 Average	0.00
8	8241.381	9.33	37.00	53.77	59.35	51.91	-22.09 Peak	0.00
9	9506.048	10.77	37.45	53.28	40.18	35.12	-18.88 Average	0.00
10	9506.048	10.77	37.45	53.28	54.76	49.70	-24.30 Peak	0.00

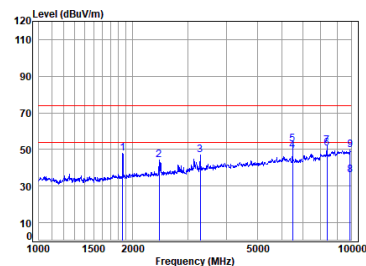
BW 100K CH H H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT/01140AT
Mode : 927.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1	1857.804	5.00	26.99	54.68	68.04	45.35	74.00	-28.65 Peak
2	2454.789	5.38	29.11	54.70	65.79	45.58	74.00	-28.42 Peak
3	6501.297	8.88	34.91	53.25	55.83	46.37	54.00	-7.63 Average
4	6501.297	8.88	34.91	53.25	60.60	51.14	74.00	-22.86 Peak
5	7430.191	8.43	36.30	53.47	58.71	49.97	54.00	-4.03 Average
6	7430.191	8.43	36.30	53.47	58.02	49.28	74.00	-24.72 Peak
7	8356.030	9.44	37.12	53.76	56.42	49.22	54.00	-4.78 Average
8	8356.030	9.44	37.12	53.76	56.59	49.39	74.00	-24.61 Peak

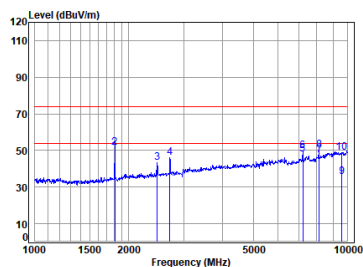
BW 100K CH H V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT/01140AT
Mode : 927.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1	1853.532	5.00	26.94	54.68	70.43	47.69	74.00	-26.31 Peak
2	2426.610	5.36	28.91	54.70	64.78	44.35	74.00	-29.65 Peak
3	3288.516	6.07	31.43	54.67	64.11	46.94	74.00	-27.06 Peak
4	6501.297	8.88	34.91	53.25	58.64	49.18	54.00	-4.82 Average
5	6501.297	8.88	34.91	53.25	62.56	53.10	74.00	-20.90 Peak
6	8356.030	9.44	37.12	53.76	57.51	50.61	54.00	-3.39 Average
7	8356.030	9.44	37.12	53.76	59.40	52.20	74.00	-21.80 Peak
8	9931.160	10.64	37.72	52.95	40.44	35.85	54.00	-18.15 Average
9	9931.160	10.64	37.72	52.95	54.53	49.94	74.00	-24.06 Peak

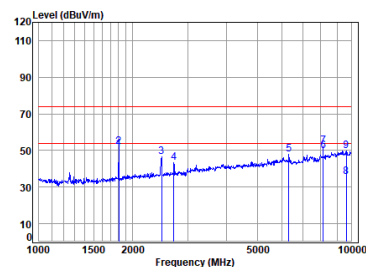
BW 150K CH L H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT/01140AT
Mode : 902.2 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1	1803.018	5.00	26.99	54.67	72.49	49.81	54.00	-4.19 Average
2	1803.018	5.00	26.99	54.67	74.14	51.46	74.00	-22.54 Peak
3	2466.039	5.39	29.13	54.70	63.32	43.14	74.00	-30.86 Peak
4	2703.958	5.62	29.72	54.70	65.44	46.08	74.00	-27.92 Peak
5	7211.075	8.50	36.21	53.33	56.30	47.68	54.00	-6.32 Average
6	7211.075	8.50	36.21	53.33	58.25	49.63	74.00	-24.37 Peak
7	8128.305	9.21	36.67	53.79	55.26	47.35	54.00	-6.65 Average
8	8128.305	9.21	36.67	53.79	58.30	50.39	74.00	-23.61 Peak
9	9616.123	10.73	37.98	53.20	48.23	35.66	54.00	-18.34 Average
10	9616.123	10.73	37.98	53.20	53.51	48.94	74.00	-25.06 Peak

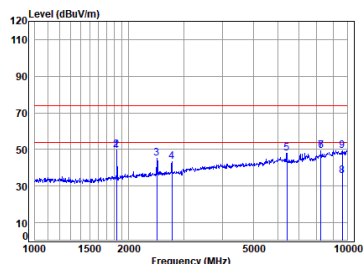
BW 150K CH L V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT/01140AT
Mode : 902.2 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1	1803.018	5.00	26.99	54.67	73.25	50.57	54.00	-3.43 Average
2	1803.018	5.00	26.99	54.67	74.60	51.92	74.00	-22.08 Peak
3	2471.724	5.39	29.14	54.70	66.56	46.39	74.00	-27.61 Peak
4	2703.958	5.62	29.72	54.70	62.59	43.23	74.00	-30.77 Peak
5	6309.573	8.90	35.34	53.27	56.95	47.92	74.00	-26.08 Peak
6	8128.305	9.21	36.67	53.79	57.74	49.83	54.00	-4.17 Average
7	8128.305	9.21	36.67	53.79	60.19	52.28	74.00	-21.72 Peak
8	9660.509	10.72	37.88	53.16	40.35	35.79	54.00	-18.21 Average
9	9660.509	10.72	37.88	53.16	54.13	49.57	74.00	-24.43 Peak

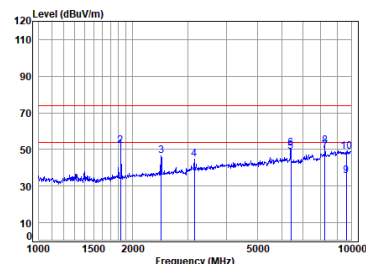
BW 150K CH M H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT/01140AT
Mode : 915.0 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 1828.100	5.00	26.94	54.67	71.88	49.15	54.00	-4.85 Average	0.00
2 p 1828.100	5.00	26.94	54.67	72.49	49.76	74.00	-24.24 Peak	0.00
3 2460.368	5.38	29.12	54.70	65.20	45.00	74.00	-29.00 Peak	0.00
4 2747.894	5.66	29.99	54.70	62.20	43.15	74.00	-30.85 Peak	0.00
5 6412.096	8.09	34.85	53.26	57.44	47.92	74.00	-26.08 Peak	0.00
6 q 8241.381	9.33	37.00	53.77	56.87	49.43	54.00	-4.57 Average	0.00
7 8241.381	9.33	37.00	53.77	56.78	49.34	74.00	-24.66 Peak	0.00
8 9638.290	10.73	37.90	53.18	40.25	35.70	54.00	-18.30 Average	0.00
9 9638.290	10.73	37.90	53.18	53.71	49.16	74.00	-24.84 Peak	0.00

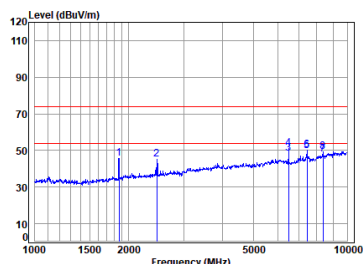
BW 150K CH M V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT/01140AT
Mode : 915.0 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 q 1828.100	5.00	26.94	54.67	72.58	49.85	54.00	-4.15 Average	0.00
2 1828.100	5.00	26.94	54.67	74.59	51.86	74.00	-22.14 Peak	0.00
3 2460.368	5.39	29.13	54.70	66.63	46.45	74.00	-27.55 Peak	0.00
4 3147.748	5.98	31.40	54.68	61.91	44.61	74.00	-29.39 Peak	0.00
5 6412.096	8.09	34.85	53.26	58.24	48.72	74.00	-25.28 Average	0.00
6 6412.096	8.09	34.85	53.26	60.34	50.82	74.00	-23.18 Peak	0.00
7 8241.381	9.33	37.00	53.77	56.70	49.26	54.00	-4.74 Average	0.00
8 p 8241.381	9.33	37.00	53.77	59.47	52.03	74.00	-21.97 Peak	0.00
9 9638.290	10.73	37.90	53.18	40.14	35.59	54.00	-18.41 Average	0.00
10 9638.290	10.73	37.90	53.18	53.56	49.01	74.00	-24.99 Peak	0.00

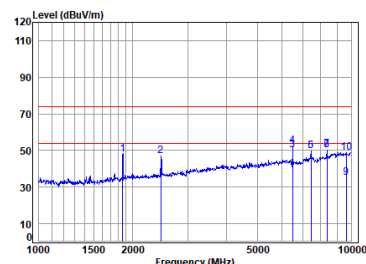
BW 150K CH H H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT/01140AT
Mode : 927.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 1857.804	5.00	26.99	54.68	68.15	45.46	74.00	-28.54 Peak	0.00
2 2460.368	5.38	29.12	54.70	65.48	45.28	74.00	-28.72 Peak	0.00
3 6501.297	8.88	34.91	53.25	57.85	48.39	54.00	-5.61 Average	0.00
4 p 6501.297	8.88	34.91	53.25	60.46	51.00	74.00	-23.00 Peak	0.00
5 q 7430.191	8.43	36.30	53.47	58.41	49.67	54.00	-4.33 Average	0.00
6 7430.191	8.43	36.30	53.47	59.11	50.37	74.00	-23.63 Peak	0.00
7 8356.030	9.44	37.12	53.76	55.04	47.84	54.00	-6.16 Average	0.00
8 8356.030	9.44	37.12	53.76	56.31	49.11	74.00	-24.89 Peak	0.00

BW 150K CH H V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT/01140AT
Mode : 927.8 RSE TX

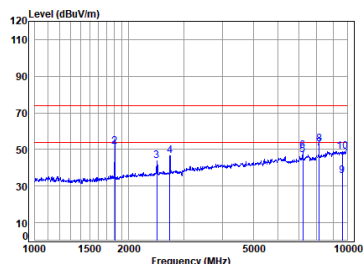
Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 1853.532	5.00	26.94	54.68	70.67	47.93	74.00	-26.07 Peak	0.00
2 2460.368	5.38	29.12	54.70	67.29	47.09	74.00	-26.91 Peak	0.00
3 6501.297	8.88	34.91	53.25	59.74	50.28	54.00	-3.72 Average	0.00
4 p 6501.297	8.88	34.91	53.25	61.71	52.25	74.00	-21.75 Peak	0.00
5 7430.191	8.43	36.30	53.47	58.29	49.55	54.00	-4.45 Average	0.00
6 7430.191	8.43	36.30	53.47	58.68	49.94	74.00	-24.06 Peak	0.00
7 q 8356.030	9.44	37.12	53.76	57.71	50.51	54.00	-3.49 Average	0.00
8 8356.030	9.44	37.12	53.76	57.17	49.97	74.00	-24.03 Peak	0.00
9 9638.290	10.73	37.90	53.18	39.71	35.16	54.00	-18.84 Average	0.00
10 9638.290	10.73	37.90	53.18	53.27	48.72	74.00	-25.28 Peak	0.00



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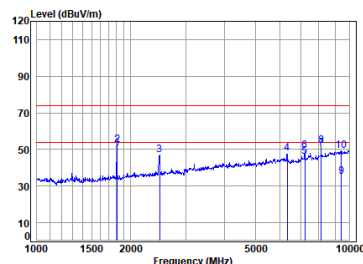
BW 225K CH L H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 902.4 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1803.018	5.00	26.99	54.67	72.60	49.92	54.00	-4.08 Average
2	1803.018	5.00	26.99	54.67	74.22	51.54	74.00	-22.46 Peak
3	2454.709	5.38	29.11	54.70	63.83	43.62	74.00	-30.38 Peak
4	2703.958	5.62	29.72	54.70	65.78	46.42	74.00	-27.58 Peak
5	7211.075	8.50	36.21	53.33	55.04	47.22	54.00	-6.78 Average
6	7211.075	8.50	36.21	53.33	57.79	49.17	74.00	-24.83 Peak
7	8128.305	9.21	36.67	53.79	58.77	50.86	54.00	-3.14 Average
8	8128.305	9.21	36.67	53.79	60.78	52.87	74.00	-21.13 Peak
9	9638.290	10.73	37.90	53.18	40.13	35.58	54.00	-18.42 Average
10	9638.290	10.73	37.90	53.18	53.51	48.96	74.00	-25.04 Peak

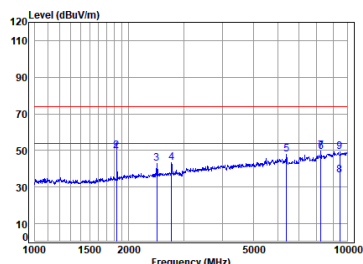
BW 225K CH L V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 902.4 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1807.174	5.00	26.99	54.67	73.41	50.73	54.00	-3.27 Average
2	1807.174	5.00	26.99	54.67	74.95	52.27	74.00	-21.73 Peak
3	2471.724	5.39	29.14	54.70	67.11	46.94	74.00	-27.06 Peak
4	6324.119	8.90	35.40	53.27	56.77	47.80	74.00	-26.20 Peak
5	7211.075	8.50	36.21	53.33	54.87	46.25	54.00	-7.75 Average
6	7211.075	8.50	36.21	53.33	58.83	49.41	74.00	-24.59 Peak
7	8128.305	9.21	36.67	53.79	58.55	50.64	54.00	-3.36 Average
8	8128.305	9.21	36.67	53.79	60.13	52.22	74.00	-21.87 Peak
9	9440.608	10.75	37.44	53.34	40.28	35.13	54.00	-18.87 Average
10	9440.608	10.75	37.44	53.34	54.60	49.45	74.00	-24.55 Peak

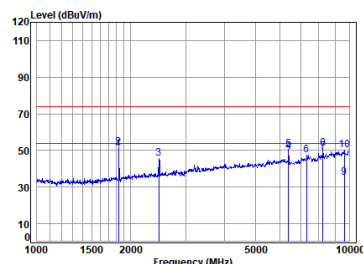
BW 225K CH M H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 914.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1828.100	5.00	26.94	54.67	71.44	48.71	54.00	-5.29 Average
2	1828.100	5.00	26.94	54.67	72.26	49.53	74.00	-24.47 Peak
3	2460.368	5.38	29.12	54.70	63.09	42.89	74.00	-31.11 Peak
4	2741.574	5.65	29.95	54.70	62.53	43.43	74.00	-30.57 Peak
5	6397.348	8.89	34.93	53.26	57.43	47.99	74.00	-26.01 Peak
6	8241.381	9.33	37.00	53.77	56.70	49.26	54.00	-4.74 Average
7	8241.381	9.33	37.00	53.77	56.99	49.55	74.00	-24.45 Peak
8	9484.185	10.76	37.50	53.30	41.71	36.67	54.00	-17.33 Average
9	9484.185	10.76	37.50	53.30	54.46	49.42	74.00	-24.58 Peak

BW 225K CH M V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 914.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	1828.100	5.00	26.94	54.67	73.33	50.60	54.00	-3.40 Average
2	1828.100	5.00	26.94	54.67	74.51	51.78	74.00	-22.22 Peak
3	2460.368	5.38	29.12	54.70	65.69	45.49	74.00	-28.51 Peak
4	6397.348	8.89	34.93	53.26	58.71	49.27	54.00	-4.73 Average
5	6397.348	8.89	34.93	53.26	60.21	50.77	74.00	-23.23 Peak
6	7311.391	8.47	36.09	53.40	56.51	47.67	74.00	-26.33 Peak
7	8241.381	9.33	37.00	53.77	56.76	49.32	54.00	-4.68 Average
8	8241.381	9.33	37.00	53.77	58.37	50.93	74.00	-23.07 Peak
9	9638.290	10.73	37.90	53.18	39.79	35.24	54.00	-18.76 Average
10	9638.290	10.73	37.90	53.18	54.67	50.12	74.00	-23.88 Peak



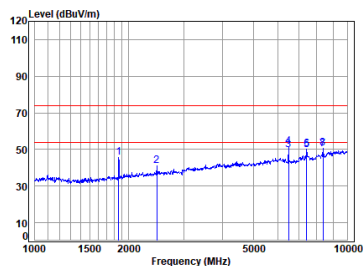
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

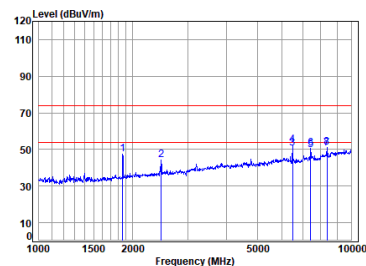
BW 225K CH H H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 927.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1853.532	5.00	26.94	54.68	68.43	45.69	74.00	-28.31 Peak
2	2468.039	5.39	29.13	54.70	61.07	40.87	74.00	-33.13 Peak
3	6486.344	8.88	34.85	53.25	59.14	49.62	54.00	-4.38 Average
4	6486.344	8.88	34.85	53.25	61.00	51.48	74.00	-22.52 Peak
5	7413.103	8.44	36.30	53.46	58.44	49.72	54.00	-4.28 Average
6	7413.103	8.44	36.30	53.46	58.69	49.97	74.00	-24.03 Peak
7	8356.030	9.44	37.12	53.76	57.37	50.17	54.00	-3.83 Average
8	8356.030	9.44	37.12	53.76	57.94	50.74	74.00	-23.26 Peak

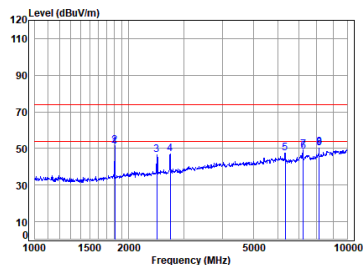
BW 225K CH H V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 927.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1853.532	5.00	26.94	54.68	70.33	47.59	74.00	-26.41 Peak
2	2468.039	5.39	29.13	54.70	64.39	44.21	74.00	-29.79 Peak
3	6486.344	8.88	34.85	53.25	60.37	50.85	54.00	-3.15 Average
4	6486.344	8.88	34.85	53.25	62.10	52.58	74.00	-21.42 Peak
5	7413.103	8.44	36.30	53.46	58.45	49.73	54.00	-4.27 Average
6	7413.103	8.44	36.30	53.46	59.24	50.52	74.00	-23.48 Peak
7	8356.030	9.44	37.12	53.76	57.77	50.57	54.00	-3.43 Average
8	8356.030	9.44	37.12	53.76	58.18	50.98	74.00	-23.02 Peak

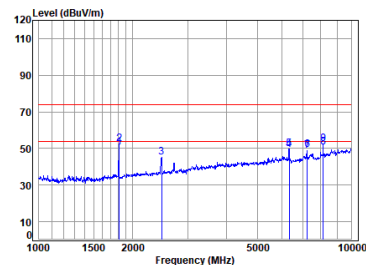
BW 300K CH L H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 902.4 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1803.018	5.00	26.99	54.67	73.19	50.51	54.00	-3.49 Average
2	1803.018	5.00	26.99	54.67	74.06	51.38	74.00	-22.62 Peak
3	2454.709	5.39	29.14	54.70	66.53	46.32	74.00	-27.68 Peak
4	2718.192	5.62	29.76	54.70	66.40	47.08	74.00	-26.92 Peak
5	6324.119	8.90	35.40	53.27	56.61	47.64	74.00	-26.36 Peak
6	7227.698	8.49	36.08	53.34	57.21	48.44	54.00	-5.56 Average
7	7227.698	8.49	36.08	53.34	57.95	49.18	74.00	-24.82 Peak
8	8128.305	9.21	36.67	53.79	58.36	50.45	54.00	-3.55 Average
9	8128.305	9.21	36.67	53.79	58.27	50.36	74.00	-23.64 Peak

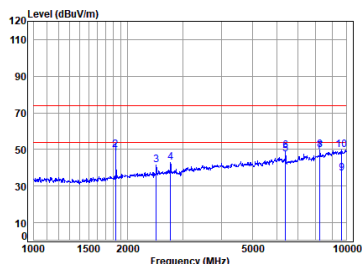
BW 300K CH L V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 902.4 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1807.174	5.00	26.99	54.67	73.45	50.77	54.00	-3.23 Average
2	1807.174	5.00	26.99	54.67	75.23	52.55	74.00	-21.45 Peak
3	2471.724	5.39	29.14	54.70	65.32	45.15	74.00	-28.85 Peak
4	6324.119	8.90	35.40	53.27	58.41	49.44	54.00	-4.56 Average
5	6324.119	8.90	35.40	53.27	58.72	49.75	74.00	-24.25 Peak
6	7227.698	8.49	36.08	53.34	58.24	49.47	54.00	-4.53 Average
7	7227.698	8.49	36.08	53.34	57.80	49.03	74.00	-24.97 Peak
8	8128.305	9.21	36.67	53.79	58.77	50.86	54.00	-3.14 Average
9	8128.305	9.21	36.67	53.79	60.57	52.66	74.00	-21.34 Peak

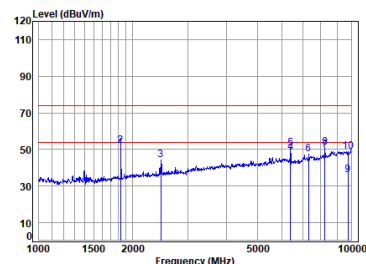
BW 300K CH M H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 914.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1 1828.100	5.00	26.94	54.67	70.82	48.09	54.00	-5.91 Average	0.00
2 1828.100	5.00	26.94	54.67	72.57	49.84	74.00	-24.16 Peak	0.00
3 2454.709	5.39	29.13	54.70	61.64	41.46	74.00	-32.54 Peak	0.00
4 2741.574	5.65	29.95	54.70	61.78	42.68	74.00	-31.32 Peak	0.00
5 6397.348	8.09	34.93	53.26	56.05	47.41	54.00	-6.59 Average	0.00
6 6397.348	8.09	34.93	53.26	58.76	49.32	74.00	-24.68 Peak	0.00
7 q 8241.381	9.33	37.00	53.77	56.35	48.91	54.00	-5.09 Average	0.00
8 p 8241.381	9.33	37.00	53.77	57.40	49.96	74.00	-24.04 Peak	0.00
9 9682.778	10.71	37.83	53.14	41.34	36.74	54.00	-17.26 Average	0.00
10 9682.778	10.71	37.83	53.14	54.29	49.69	74.00	-24.31 Peak	0.00

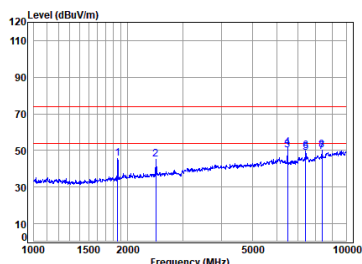
BW 300K CH M V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 914.8 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1 q 1828.100	5.00	26.94	54.67	73.18	50.45	54.00	-3.55 Average	0.00
2 p 1828.100	5.00	26.94	54.67	74.55	51.82	74.00	-22.18 Peak	0.00
3 2454.709	5.38	29.11	54.70	64.64	44.43	74.00	-29.57 Peak	0.00
4 6397.348	8.09	34.93	53.26	57.74	48.30	54.00	-5.70 Average	0.00
5 6397.348	8.09	34.93	53.26	59.52	50.48	74.00	-23.52 Peak	0.00
6 7311.393	8.47	36.09	53.40	56.47	47.63	74.00	-26.37 Peak	0.00
7 8241.381	9.33	37.00	53.77	57.14	49.70	54.00	-4.30 Average	0.00
8 8241.381	9.33	37.00	53.77	58.50	51.06	74.00	-22.94 Peak	0.00
9 9772.372	10.69	37.79	53.07	40.71	36.12	54.00	-17.88 Average	0.00
10 9772.372	10.69	37.79	53.07	53.53	48.94	74.00	-25.06 Peak	0.00

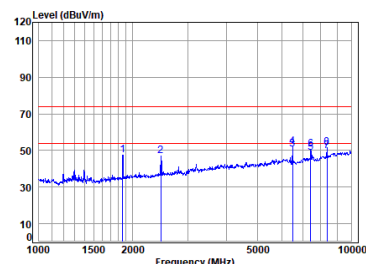
BW 300K CH H H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 927.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1 1853.532	5.00	26.94	54.68	68.42	45.68	74.00	-28.32 Peak	0.00
2 2454.709	5.38	29.11	54.70	65.18	44.97	74.00	-29.03 Peak	0.00
3 q 6486.344	8.88	34.85	53.25	59.85	50.33	54.00	-3.67 Average	0.00
4 p 6486.344	8.88	34.85	53.25	61.19	51.67	74.00	-22.33 Peak	0.00
5 7413.103	8.44	36.30	53.46	57.77	49.05	54.00	-4.95 Average	0.00
6 7413.103	8.44	36.30	53.46	58.40	49.68	74.00	-24.32 Peak	0.00
7 8356.030	9.44	37.12	53.76	56.27	49.07	54.00	-4.93 Average	0.00
8 8356.030	9.44	37.12	53.76	57.47	50.27	74.00	-23.73 Peak	0.00

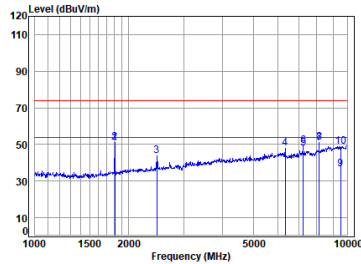
BW 300K CH H V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 927.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB/m	dB	dB	dB	dB	dB	dB	dB
1 1853.532	5.00	26.94	54.68	70.41	47.67	74.00	-26.33 Peak	0.00
2 2454.709	5.38	29.11	54.70	67.34	47.13	74.00	-26.87 Peak	0.00
3 q 6486.344	8.88	34.85	53.25	60.24	50.72	54.00	-3.28 Average	0.00
4 p 6486.344	8.88	34.85	53.25	61.56	52.04	74.00	-21.96 Peak	0.00
5 7413.103	8.44	36.30	53.46	57.74	49.02	54.00	-4.98 Average	0.00
6 7413.103	8.44	36.30	53.46	59.54	50.82	74.00	-23.18 Peak	0.00
7 8356.030	9.44	37.12	53.76	56.75	49.55	54.00	-4.45 Average	0.00
8 8356.030	9.44	37.12	53.76	58.56	51.36	74.00	-22.64 Peak	0.00

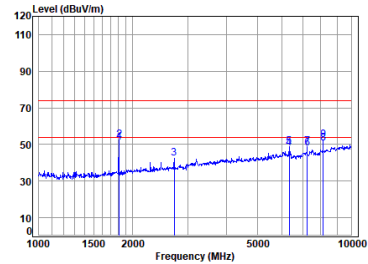
BW 450K CH L H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 902.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1803.018	5.00	26.99	54.67	73.27	50.59	54.00	-3.41 Average
2	p 1803.018	5.00	26.99	54.67	73.98	51.30	74.00	-22.70 Peak
3	2454.709	5.38	29.11	54.70	64.15	43.94	74.00	-30.06 Peak
4	6324.119	8.90	35.40	53.27	56.85	47.88	74.00	-26.12 Peak
5	7227.698	8.49	36.08	53.34	56.78	48.01	54.00	-5.99 Average
6	7227.698	8.49	36.08	53.34	58.26	49.49	74.00	-24.51 Peak
7	q 8128.305	9.21	36.67	53.79	58.59	50.68	54.00	-3.32 Average
8	8128.305	9.21	36.67	53.79	59.84	51.13	74.00	-22.87 Peak
9	9527.962	10.76	37.28	53.27	41.66	36.43	54.00	-17.57 Average
10	9527.962	10.76	37.28	53.27	53.99	48.76	74.00	-25.24 Peak

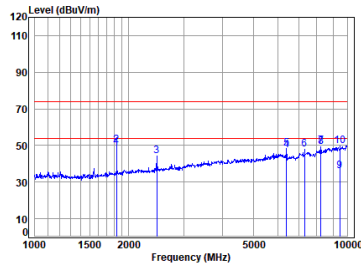
BW 450K CH L V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 902.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	q 1807.174	5.00	26.99	54.67	73.66	50.98	54.00	-3.02 Average
2	p 1807.174	5.00	26.99	54.67	75.29	52.61	74.00	-21.39 Peak
3	2710.192	5.62	29.76	54.70	61.94	42.62	74.00	-31.38 Peak
4	6324.119	8.90	35.40	53.27	56.88	47.91	54.00	-6.09 Average
5	6324.119	8.90	35.40	53.27	57.84	48.87	74.00	-25.13 Peak
6	7227.698	8.49	36.08	53.34	56.66	47.89	54.00	-6.11 Average
7	7227.698	8.49	36.08	53.34	57.58	48.81	74.00	-25.19 Peak
8	8128.305	9.21	36.67	53.79	58.69	50.78	54.00	-3.22 Average
9	8128.305	9.21	36.67	53.79	60.28	52.37	74.00	-21.63 Peak

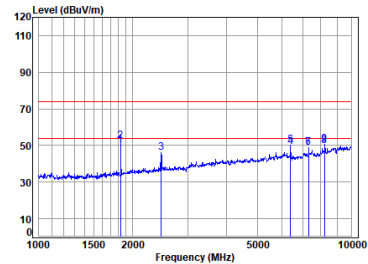
BW 450K CH M H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT01140AT
Mode : 914.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	1828.100	5.00	26.94	54.67	71.69	48.96	54.00	-5.04 Average
2	p 1828.100	5.00	26.94	54.67	72.95	50.22	74.00	-23.78 Peak
3	2454.709	5.38	29.13	54.70	64.39	44.18	74.00	-29.82 Peak
4	6397.348	8.89	34.93	53.26	56.75	47.31	54.00	-6.69 Average
5	6397.348	8.89	34.93	53.26	57.91	48.47	74.00	-25.53 Peak
6	7311.391	8.47	36.09	53.40	56.70	47.86	74.00	-26.14 Peak
7	q 8241.381	9.33	37.00	53.77	57.24	49.80	54.00	-4.20 Average
8	8241.381	9.33	37.00	53.77	56.66	49.22	74.00	-24.78 Peak
9	9484.185	10.76	37.50	53.30	41.17	36.13	54.00	-17.87 Average
10	9484.185	10.76	37.50	53.30	54.60	49.56	74.00	-24.44 Peak

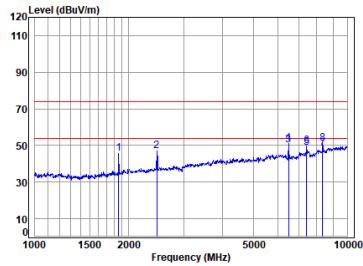
BW 450K CH M V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT01140AT
Mode : 914.6 RSE TX

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
dB	dB	dB	dB	dB	dB	dB	dB	dB
1	q 1828.100	5.00	26.94	54.67	72.85	50.12	54.00	-3.88 Average
2	p 1828.100	5.00	26.94	54.67	75.02	52.29	74.00	-21.71 Peak
3	2466.039	5.39	29.13	54.70	66.17	45.99	74.00	-28.01 Peak
4	6397.348	8.89	34.93	53.26	58.57	49.13	54.00	-4.87 Average
5	6397.348	8.89	34.93	53.26	59.56	50.12	74.00	-23.88 Peak
6	7311.391	8.47	36.09	53.40	57.69	48.85	54.00	-5.15 Average
7	7311.391	8.47	36.09	53.40	57.81	48.97	74.00	-25.03 Peak
8	8222.427	9.31	36.77	53.78	57.27	49.57	54.00	-4.43 Average
9	8222.427	9.31	36.77	53.78	58.56	50.86	74.00	-23.14 Peak

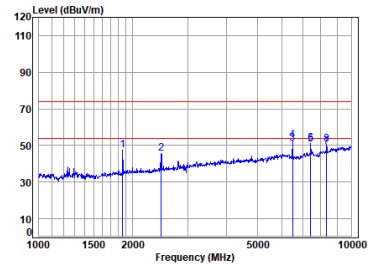
BW 450K CH H H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01139AT\01140AT
Mode : 927.2 RSE TX

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 1853.532	5.00	26.94	54.68	68.23	45.49	74.00	-28.51	Peak	0.00
2 2466.039	5.38	29.12	54.70	67.23	47.03	74.00	-26.97	Peak	0.00
3 q 6486.344	8.88	34.85	53.25	59.77	50.25	54.00	-3.75	Average	0.00
4 p 6486.344	8.88	34.85	53.25	60.77	51.25	74.00	-22.75	Peak	0.00
5 7413.103	8.44	36.30	53.46	57.47	48.75	54.00	-5.25	Average	0.00
6 7413.103	8.44	36.30	53.46	59.92	49.90	74.00	-24.10	Peak	0.00
7 8336.812	9.42	37.13	53.76	55.74	48.53	54.00	-5.47	Average	0.00
8 8336.812	9.42	37.13	53.76	58.17	50.96	74.00	-23.04	Peak	0.00

BW 450K CH H V



Site : chamber
Condition: 3m VERTICAL
Job No : 01139AT\01140AT
Mode : 927.2 RSE TX

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 1853.532	5.00	26.94	54.68	70.39	47.65	74.00	-26.35	Peak	0.00
2 2466.039	5.39	29.13	54.70	65.83	45.65	74.00	-28.35	Peak	0.00
3 q 6486.344	8.88	34.85	53.25	60.45	50.93	54.00	-3.07	Average	0.00
4 p 6486.344	8.88	34.85	53.25	62.22	52.70	74.00	-21.30	Peak	0.00
5 7413.103	8.44	36.30	53.46	59.35	50.63	54.00	-3.37	Average	0.00
6 7413.103	8.44	36.30	53.46	59.92	51.20	74.00	-22.80	Peak	0.00
7 8336.812	9.42	37.13	53.76	56.54	49.33	54.00	-4.67	Average	0.00
8 8336.812	9.42	37.13	53.76	57.93	50.72	74.00	-23.28	Peak	0.00

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7.4 Maximum Conducted Output Power

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

Test Method: ANSI C63.10 (2020) Section 7.8.5

Test Engineer: Mingli Hu

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



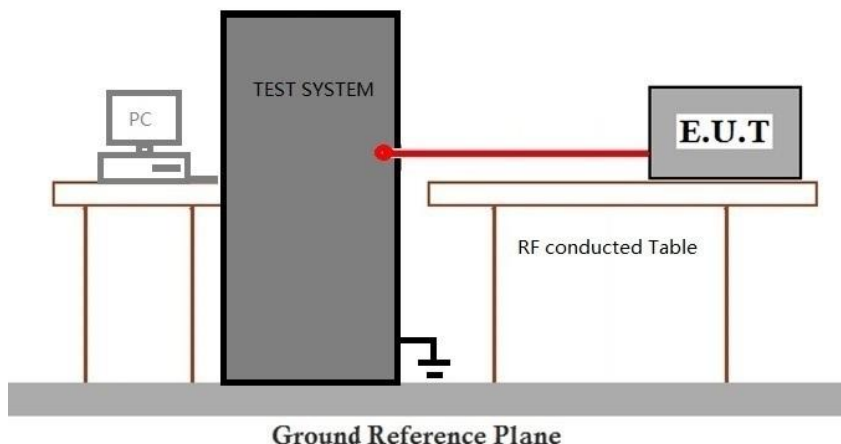
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

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7.5 20dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.247(a)(1)
 Test Method: ANSI C63.10 (2020) Section 6.9.2
 Test Engineer: Mingli Hu

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 51.1 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



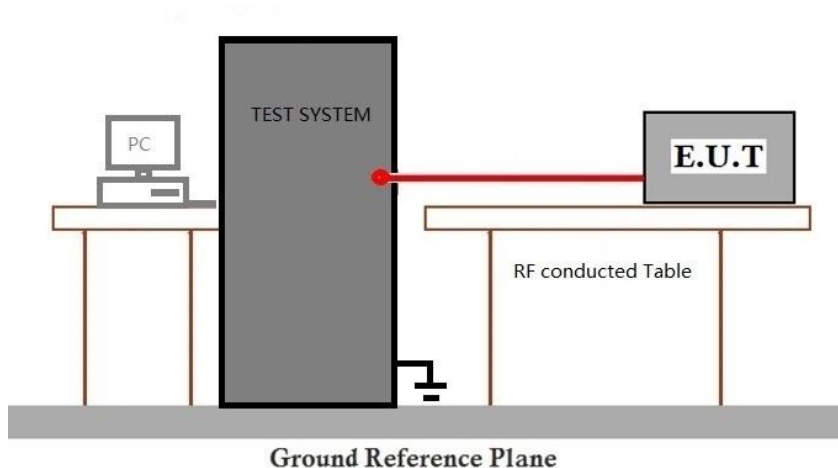
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Carrier Frequencies Separation

Test Requirement: 47 CFR Part 15, Subpart C 15.247a(1)
 Test Method: ANSI C63.10 (2020) Section 7.8.2
 Test Engineer: Mingli Hu

Limit:

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

7.6.1 E.U.T. Operation

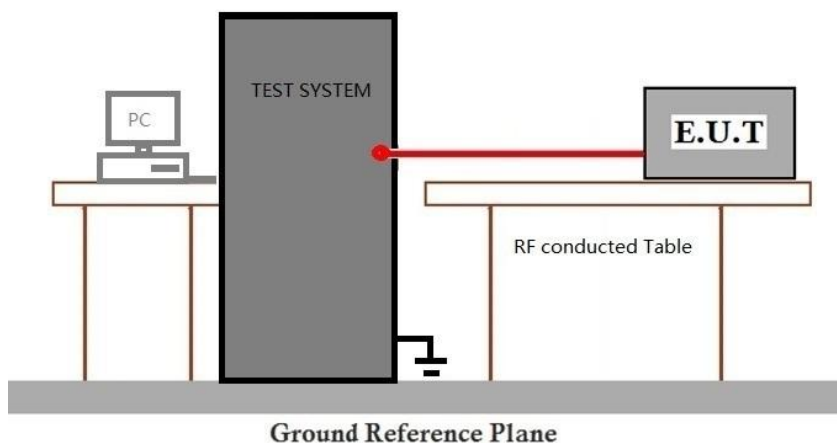
Operating Environment:

Temperature: 23.3 °C Humidity: 51.1 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 Hopping Channel Number

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

Test Method: ANSI C63.10 (2020) Section 7.8.3

Test Engineer: Mingli Hu

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.



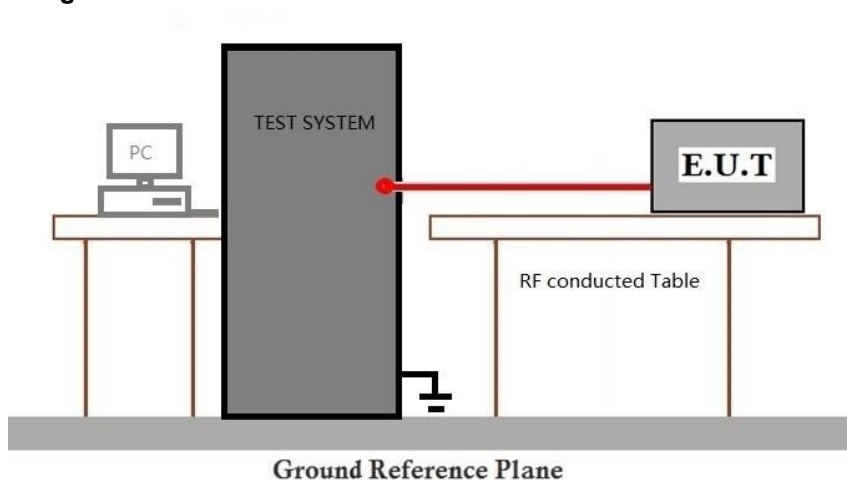
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Dwell Time

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

Test Method: ANSI C63.10 (2020) Section 7.8.4

Test Engineer: Mingli Hu

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.



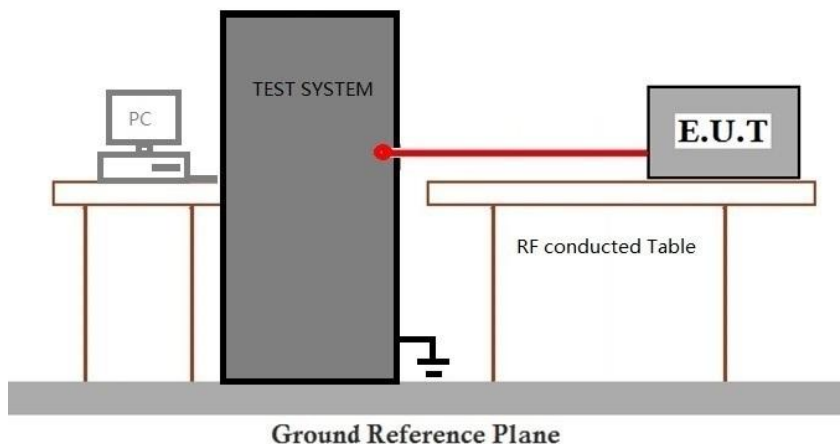
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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 7.8.7.2
 Test Engineer: Mingli Hu

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: 23.3 °C Humidity: 51.1 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



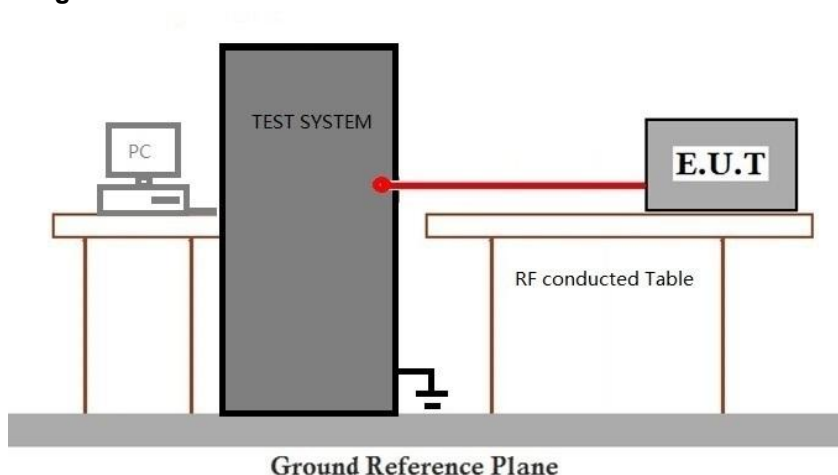
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7.9.3 Test Setup Diagram



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 (2020) Section 7.8.7
 Test Engineer: Mingli Hu

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: 23.3 °C Humidity: 51.1 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.



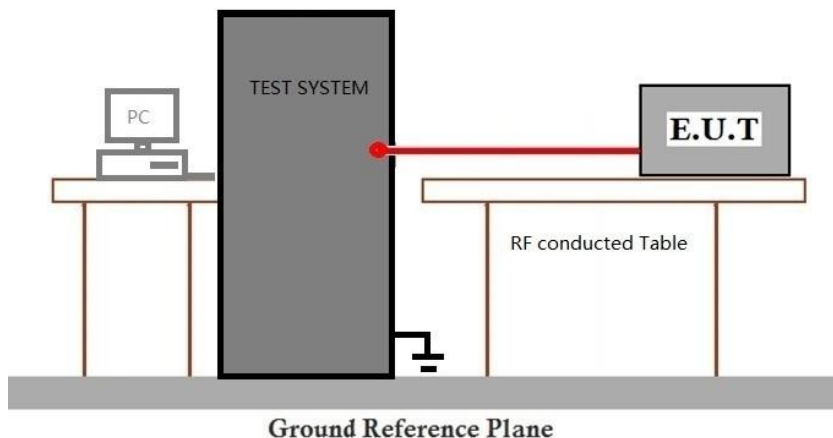
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2603001139AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2603001139AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
100K	SISO	902.2	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		927.8	100.000	100.000	100.00	0.00	0.00
150K	SISO	902.2	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		927.8	100.000	100.000	100.00	0.00	0.00
225K	SISO	902.4	100.000	100.000	100.00	0.00	0.00
		914.8	100.000	100.000	100.00	0.00	0.00
		927.6	100.000	100.000	100.00	0.00	0.00
300K	SISO	902.4	100.000	100.000	100.00	0.00	0.00
		914.8	100.000	100.000	100.00	0.00	0.00
		927.6	100.000	100.000	100.00	0.00	0.00
450K	SISO	902.6	100.000	100.000	100.00	0.00	0.00
		914.6	100.000	100.000	100.00	0.00	0.00
		927.2	100.000	100.000	100.00	0.00	0.00



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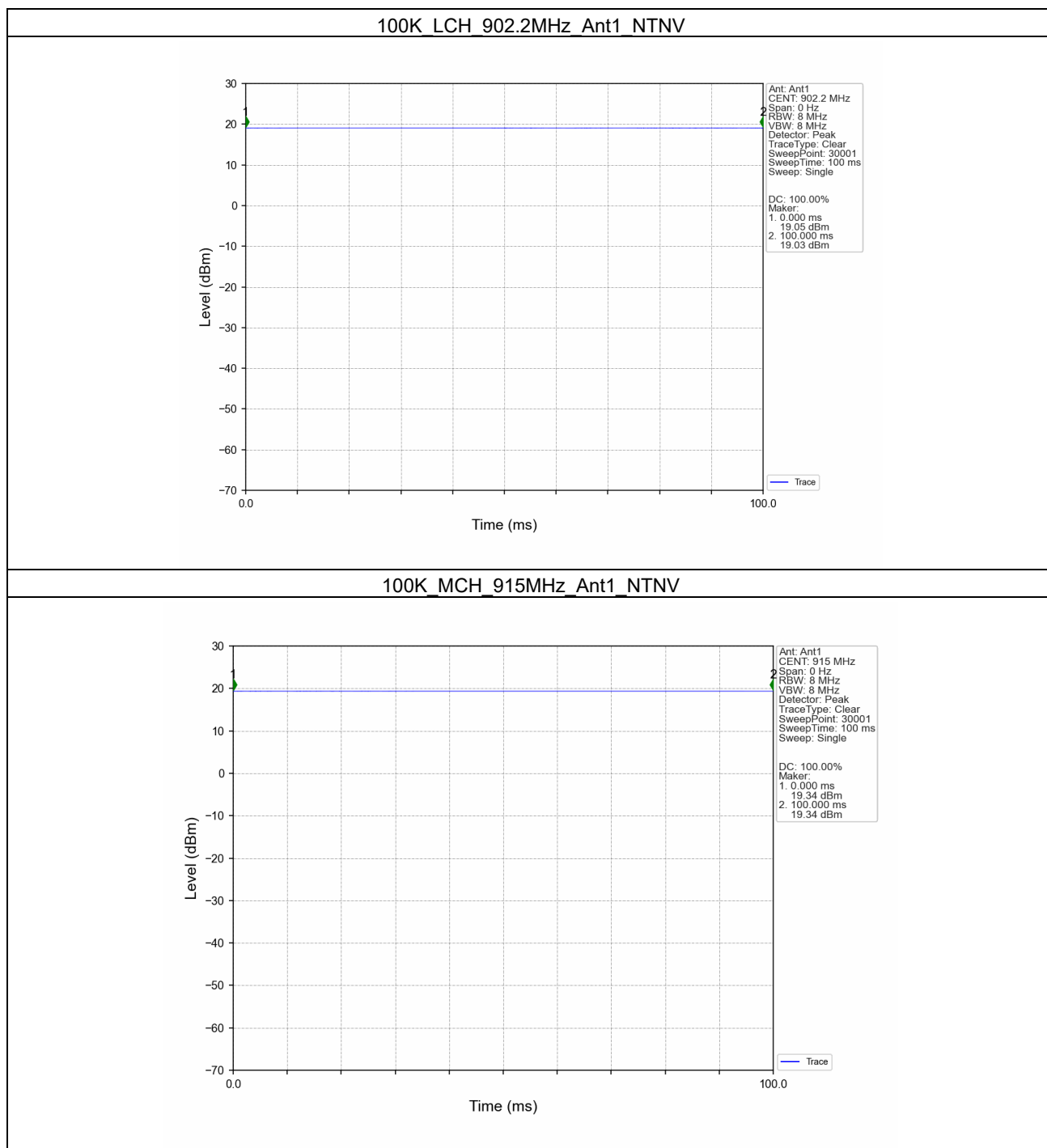
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1.2 Test Graph

1.2.1 Ant1



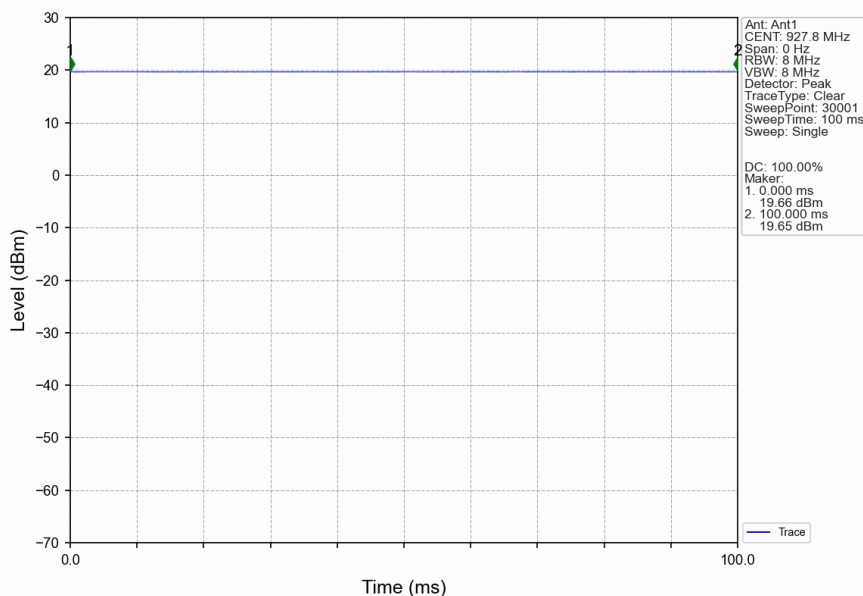
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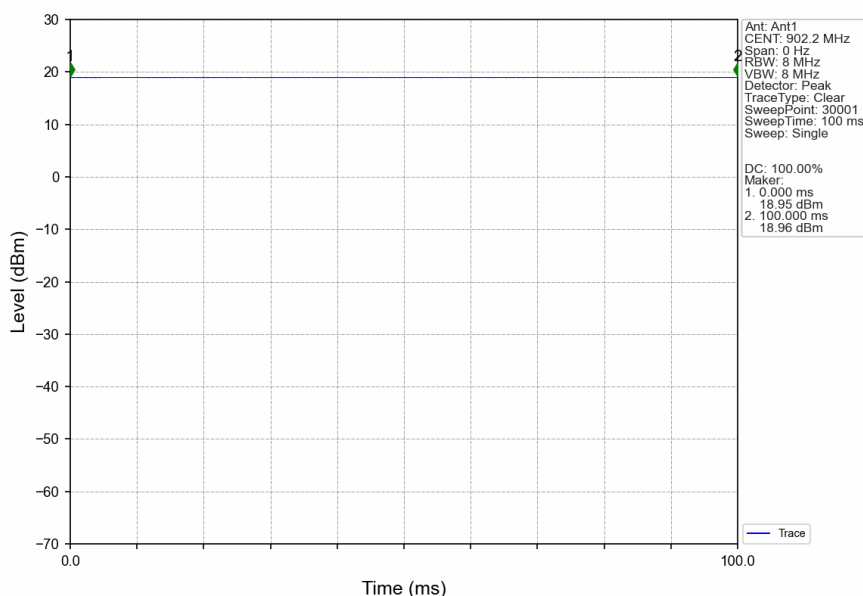
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100K_HCH_927.8MHz_Ant1_NTNV



150K_LCH_902.2MHz_Ant1_NTNV



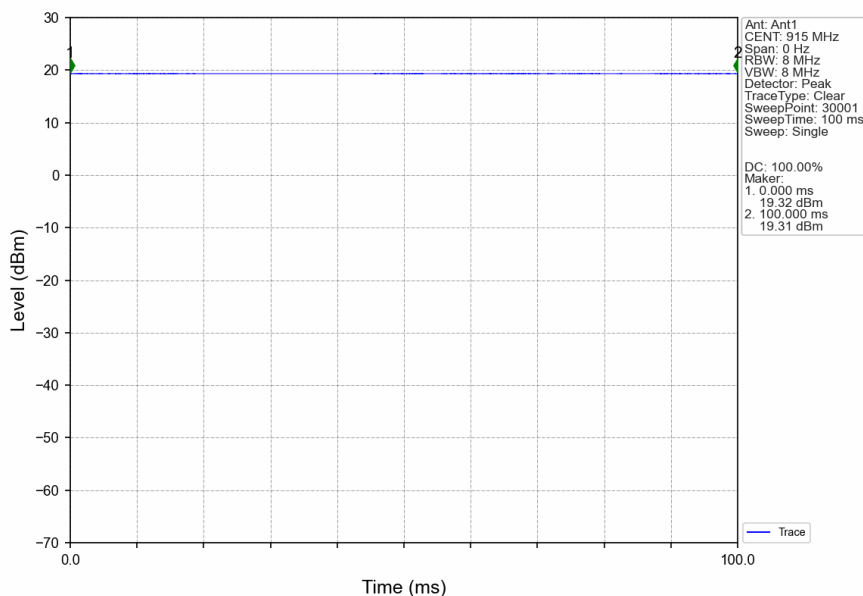
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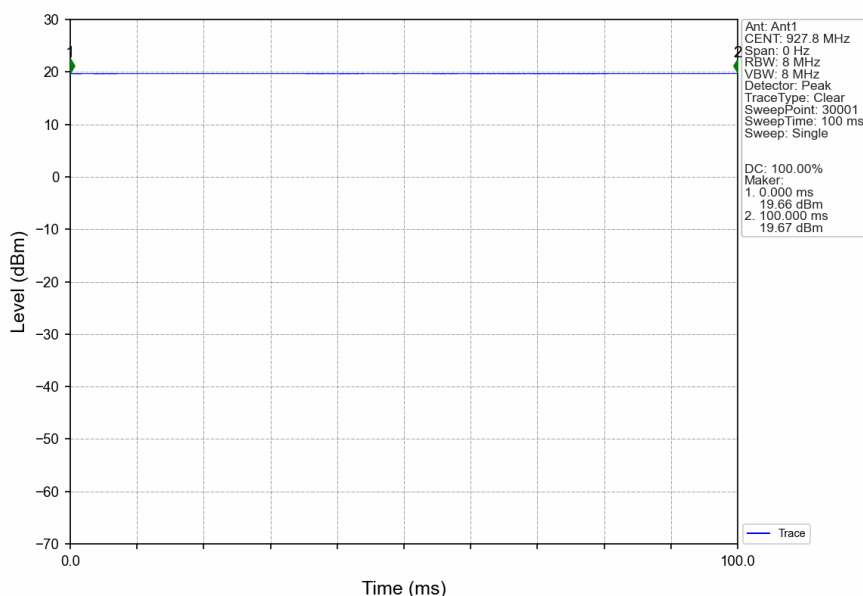
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150K_MCH_915MHz_Ant1_NTNV



150K_HCH_927.8MHz_Ant1_NTNV



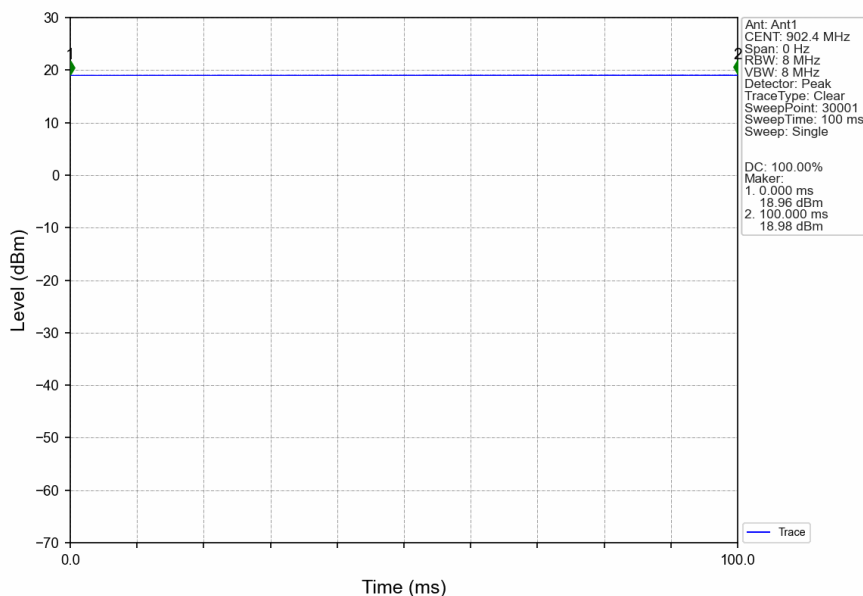
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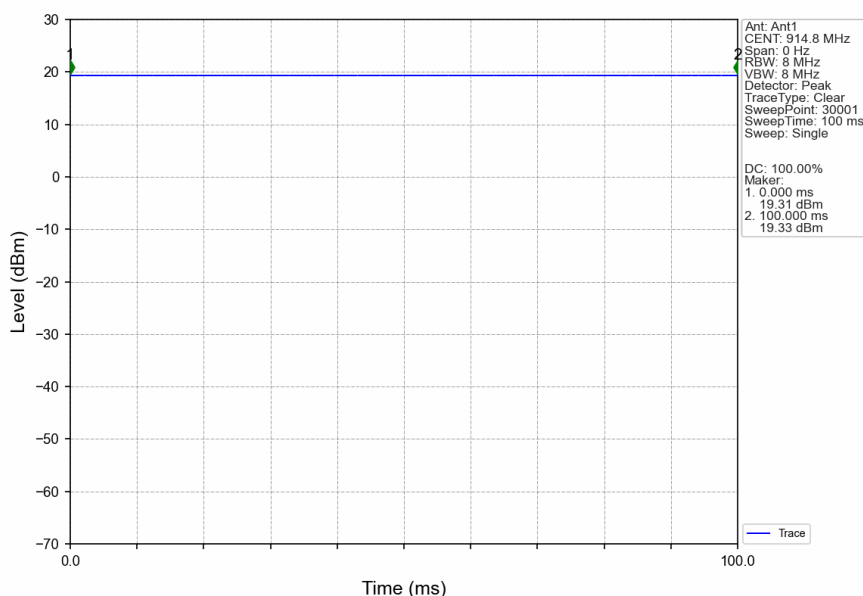
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225K_LCH_902.4MHz_Ant1_NTNV



225K_MCH_914.8MHz_Ant1_NTNV



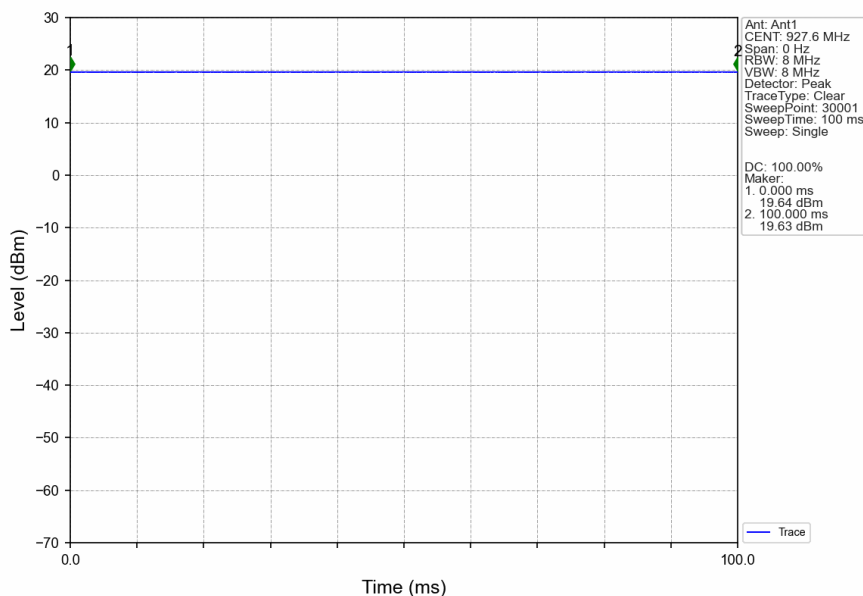
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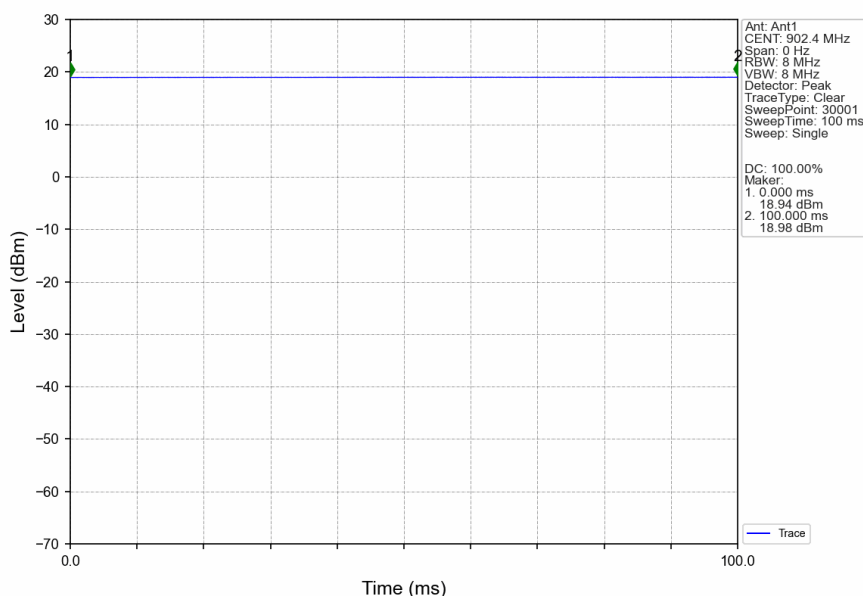
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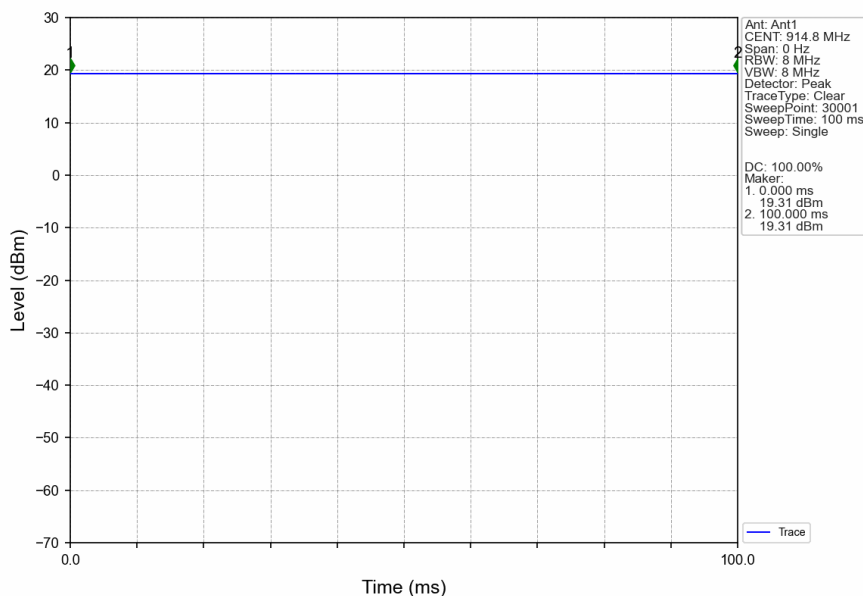
225K_HCH_927.6MHz_Ant1_NTNV



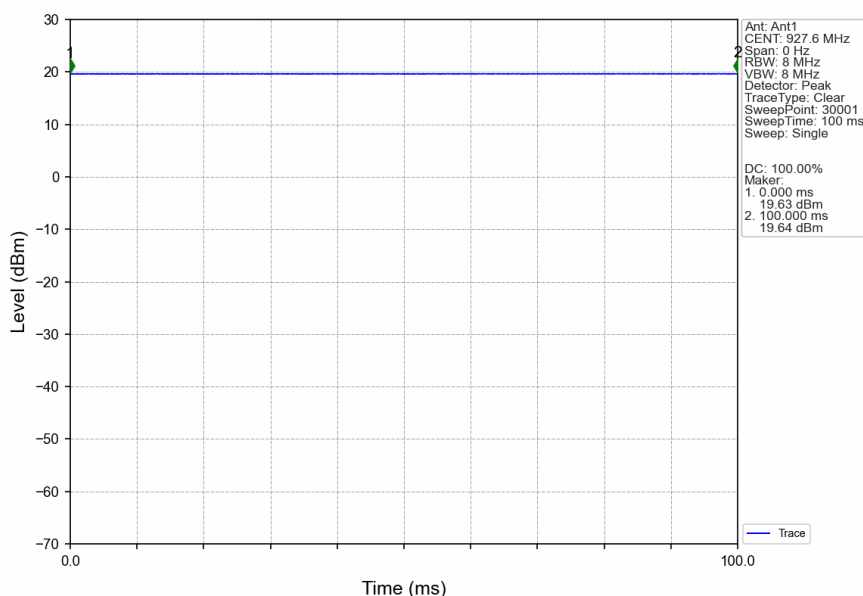
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300K_MCH_914.8MHz_Ant1_NTNV



300K_HCH_927.6MHz_Ant1_NTNV



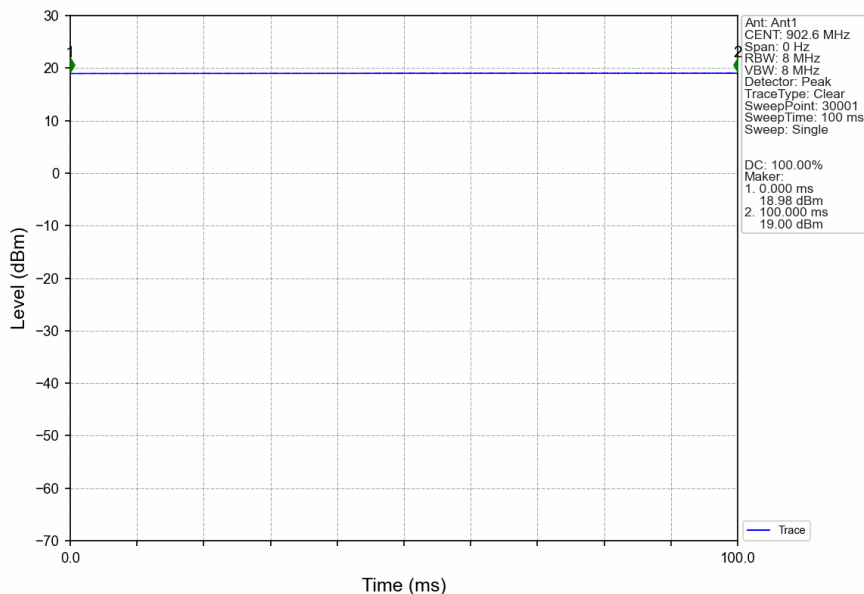
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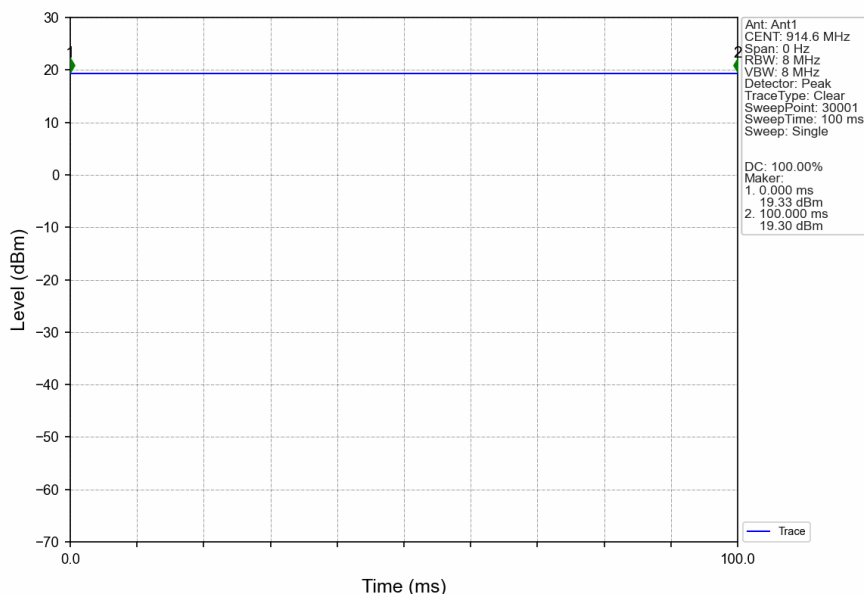
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450K_LCH_902.6MHz_Ant1_NTNV



450K_MCH_914.6MHz_Ant1_NTNV



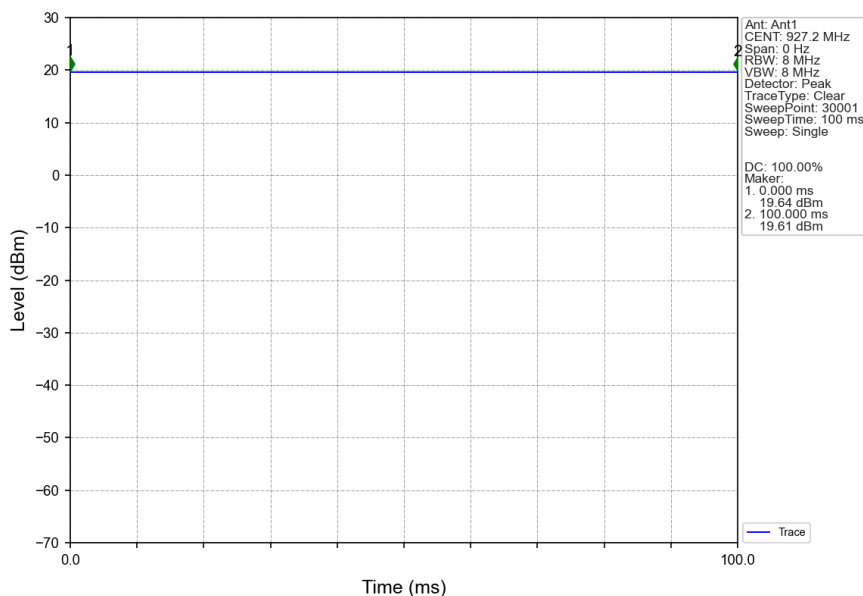
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450K_HCH_927.2MHz_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
100K	SISO	902.2	1	0.111	/	Pass
		915	1	0.111	/	Pass
		927.8	1	0.111	/	Pass
150K	SISO	902.2	1	0.122	/	Pass
		915	1	0.121	/	Pass
		927.8	1	0.121	/	Pass
225K	SISO	902.4	1	0.183	/	Pass
		914.8	1	0.184	/	Pass
		927.6	1	0.183	/	Pass
300K	SISO	902.4	1	0.243	/	Pass
		914.8	1	0.243	/	Pass
		927.6	1	0.243	/	Pass
450K	SISO	902.6	1	0.361	/	Pass
		914.6	1	0.362	/	Pass
		927.2	1	0.361	/	Pass

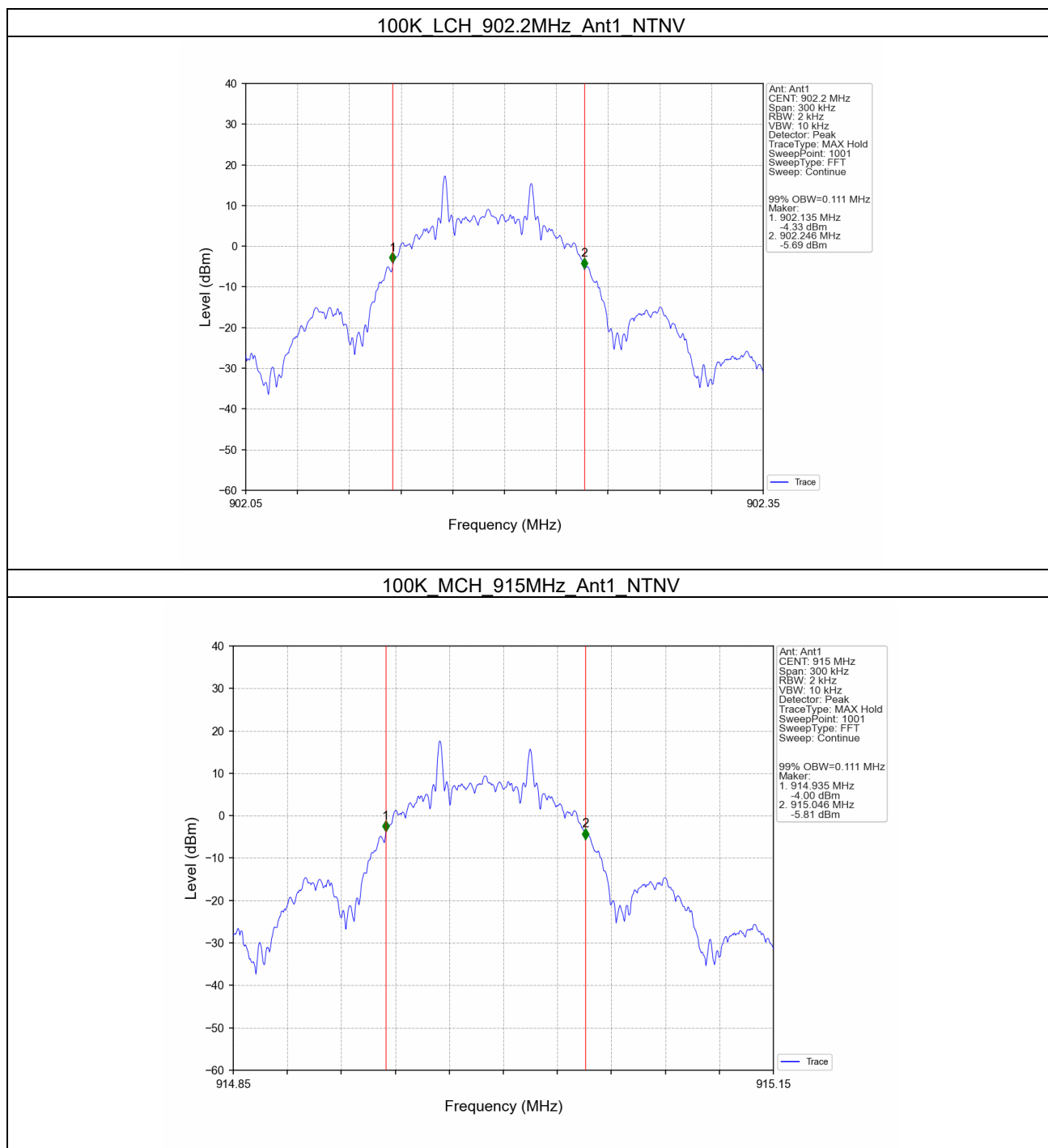
2.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
100K	SISO	902.2	1	0.095	0.5	Pass
		915	1	0.094	0.5	Pass
		927.8	1	0.095	0.5	Pass
150K	SISO	902.2	1	0.126	0.5	Pass
		915	1	0.126	0.5	Pass
		927.8	1	0.126	0.5	Pass
225K	SISO	902.4	1	0.189	0.5	Pass
		914.8	1	0.188	0.5	Pass
		927.6	1	0.188	0.5	Pass
300K	SISO	902.4	1	0.254	0.5	Pass
		914.8	1	0.254	0.5	Pass
		927.6	1	0.253	0.5	Pass
450K	SISO	902.6	1	0.381	0.5	Pass
		914.6	1	0.380	0.5	Pass
		927.2	1	0.381	0.5	Pass



2.2 Test Graph

2.2.1 OBW

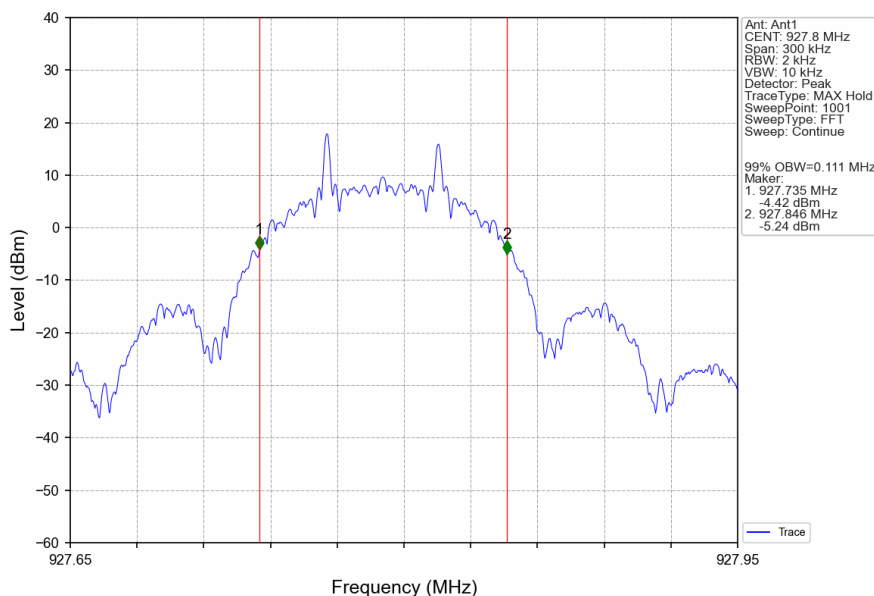


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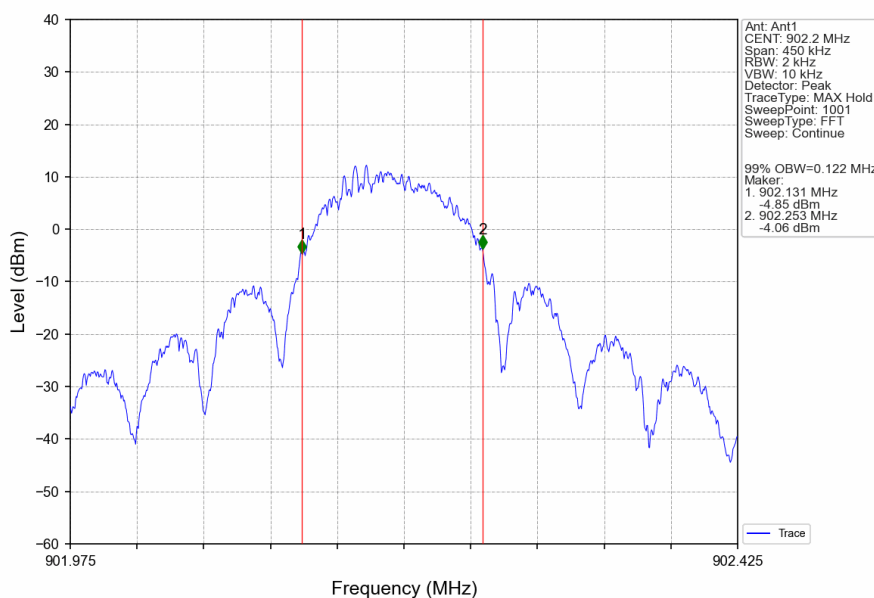
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100K_HCH_927.8MHz_Ant1_NTNV



150K_LCH_902.2MHz_Ant1_NTNV



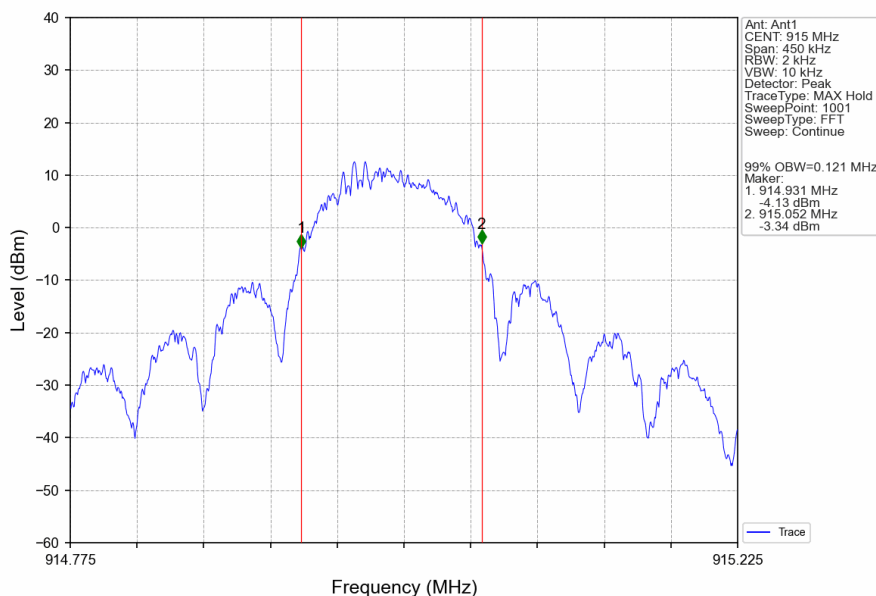
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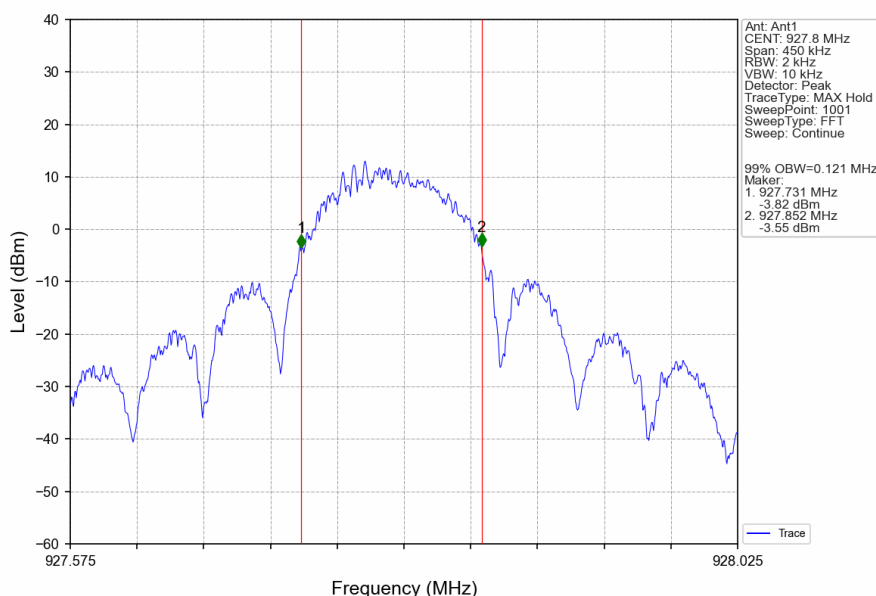
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150K_MCH_915MHz_Ant1_NTNV



150K_HCH_927.8MHz_Ant1_NTNV

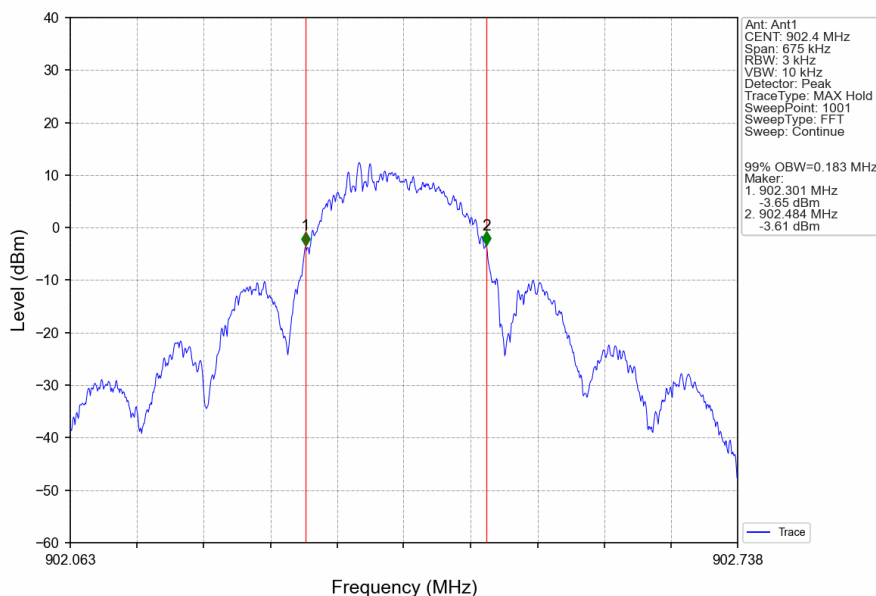


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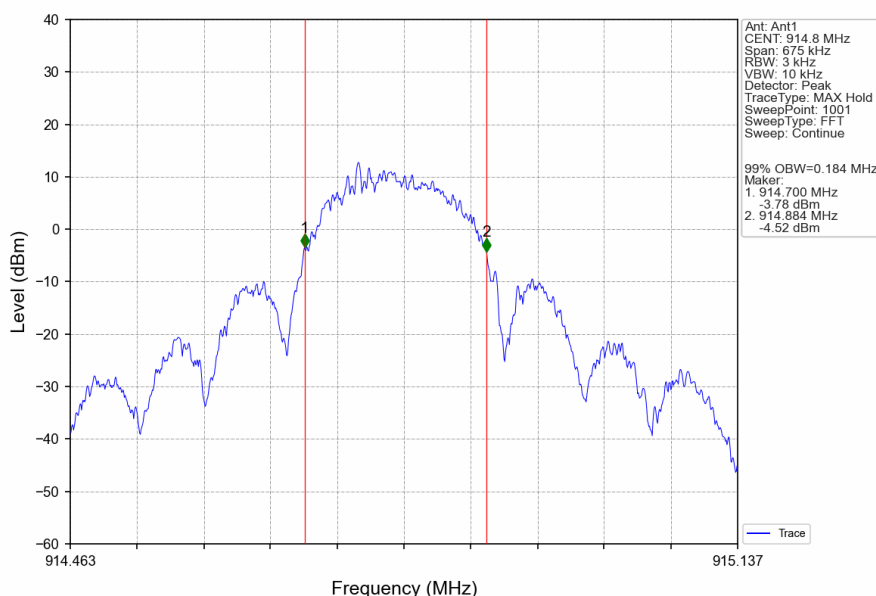
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225K_LCH_902.4MHz_Ant1_NTNV



225K_MCH_914.8MHz_Ant1_NTNV



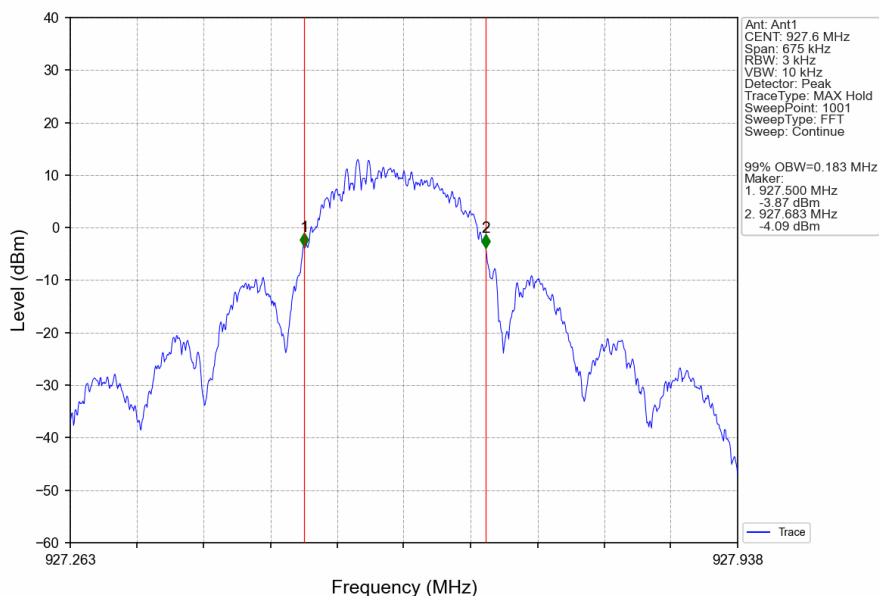
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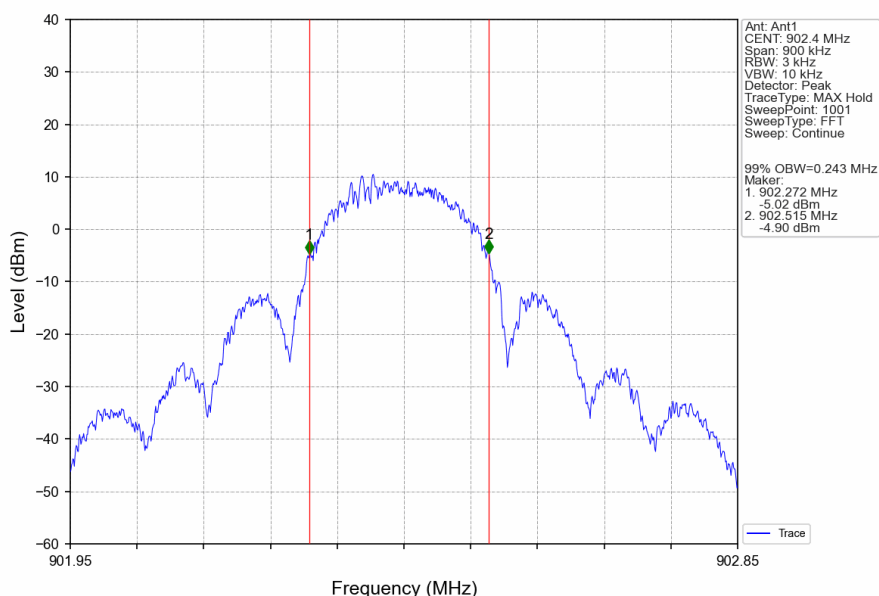
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225K HCH 927.6MHz Ant1 NTN



300K LCH 902.4MHz Ant1 NTN



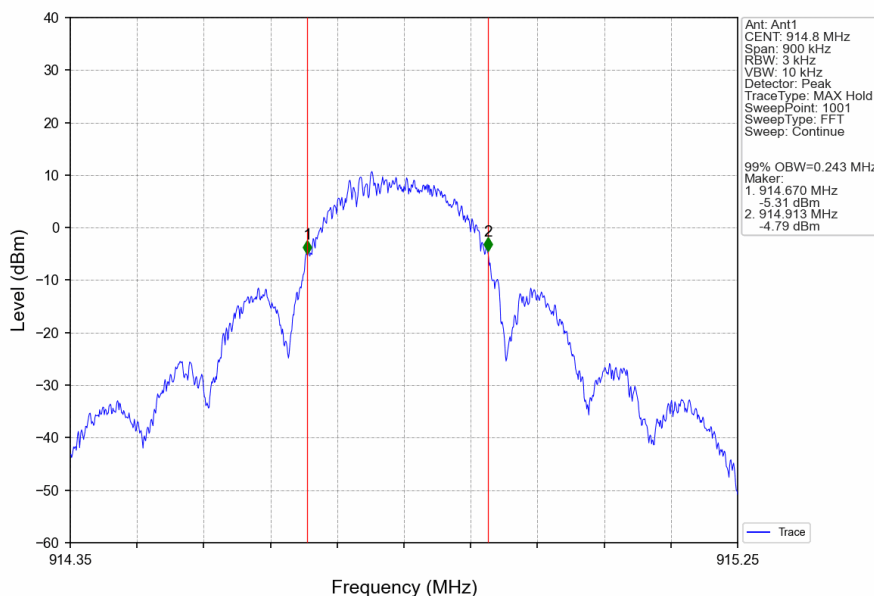
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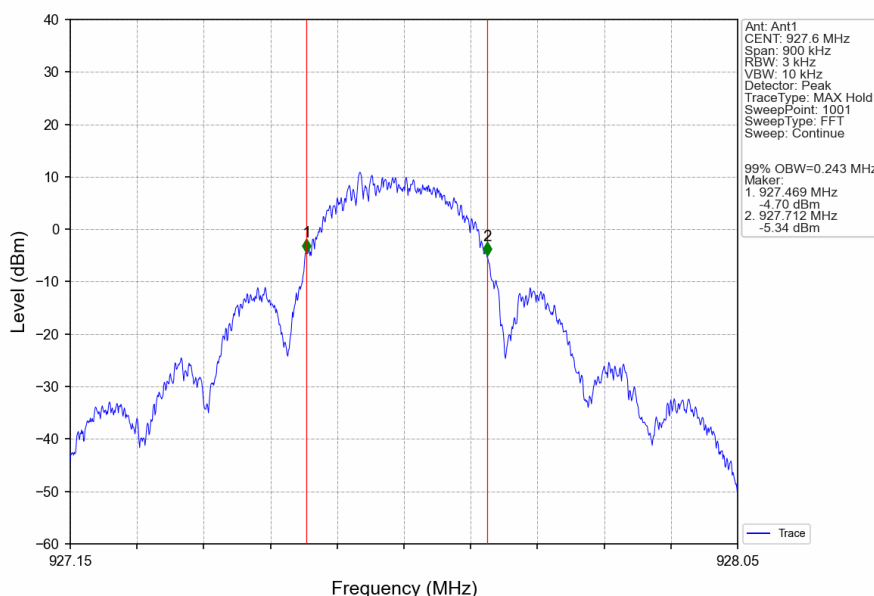
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300K_MCH_914.8MHz_Ant1_NTNV



300K_HCH_927.6MHz_Ant1_NTNV

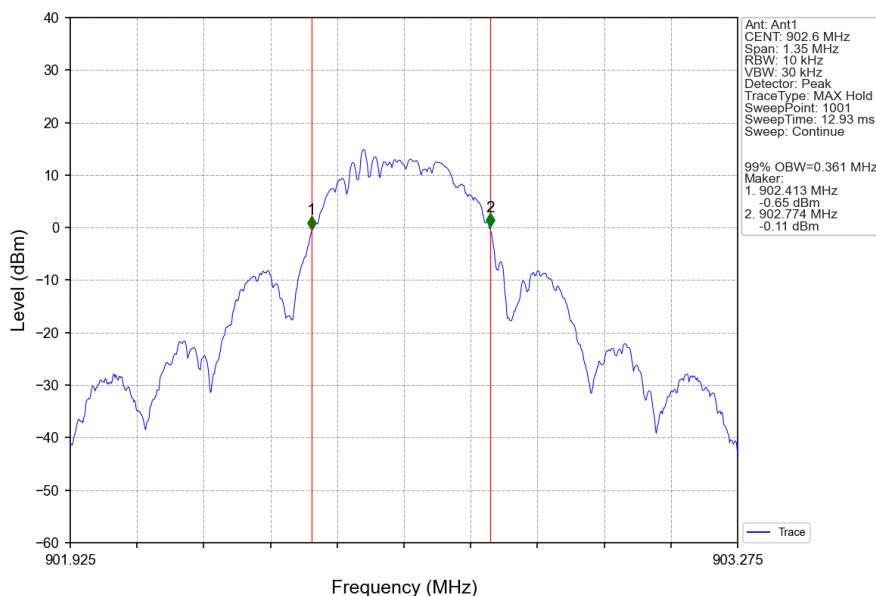


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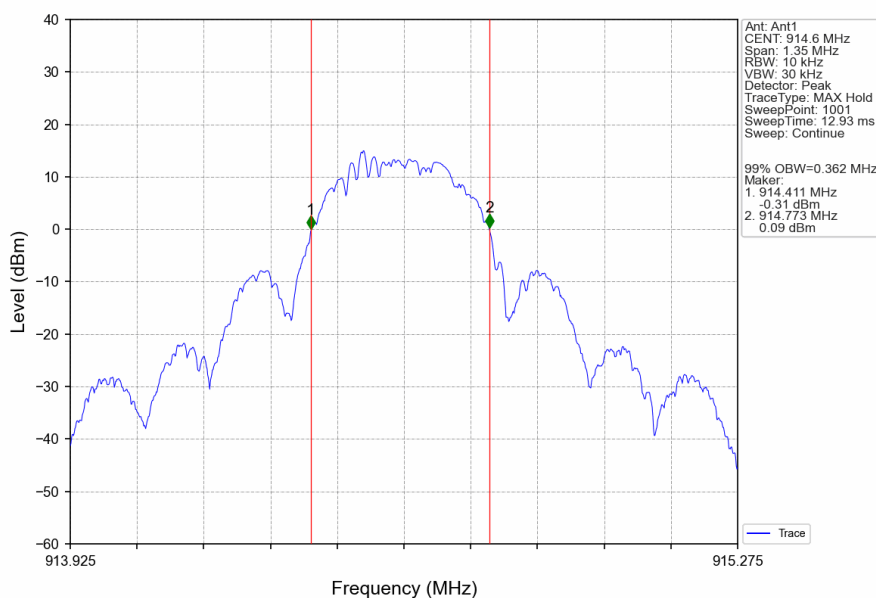
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450K_LCH_902.6MHz_Ant1_NTNV



450K_MCH_914.6MHz_Ant1_NTNV



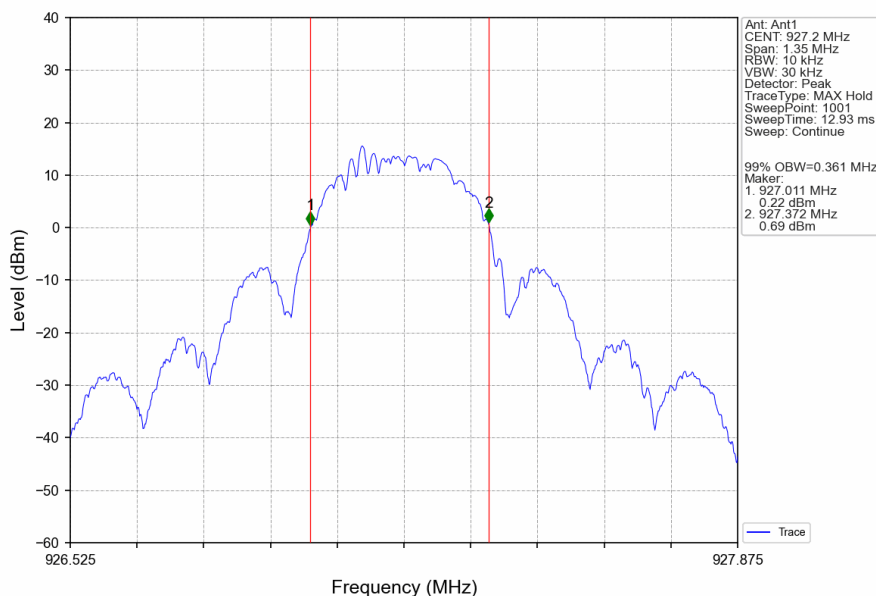
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450K_HCH_927.2MHz_Ant1_NTNV



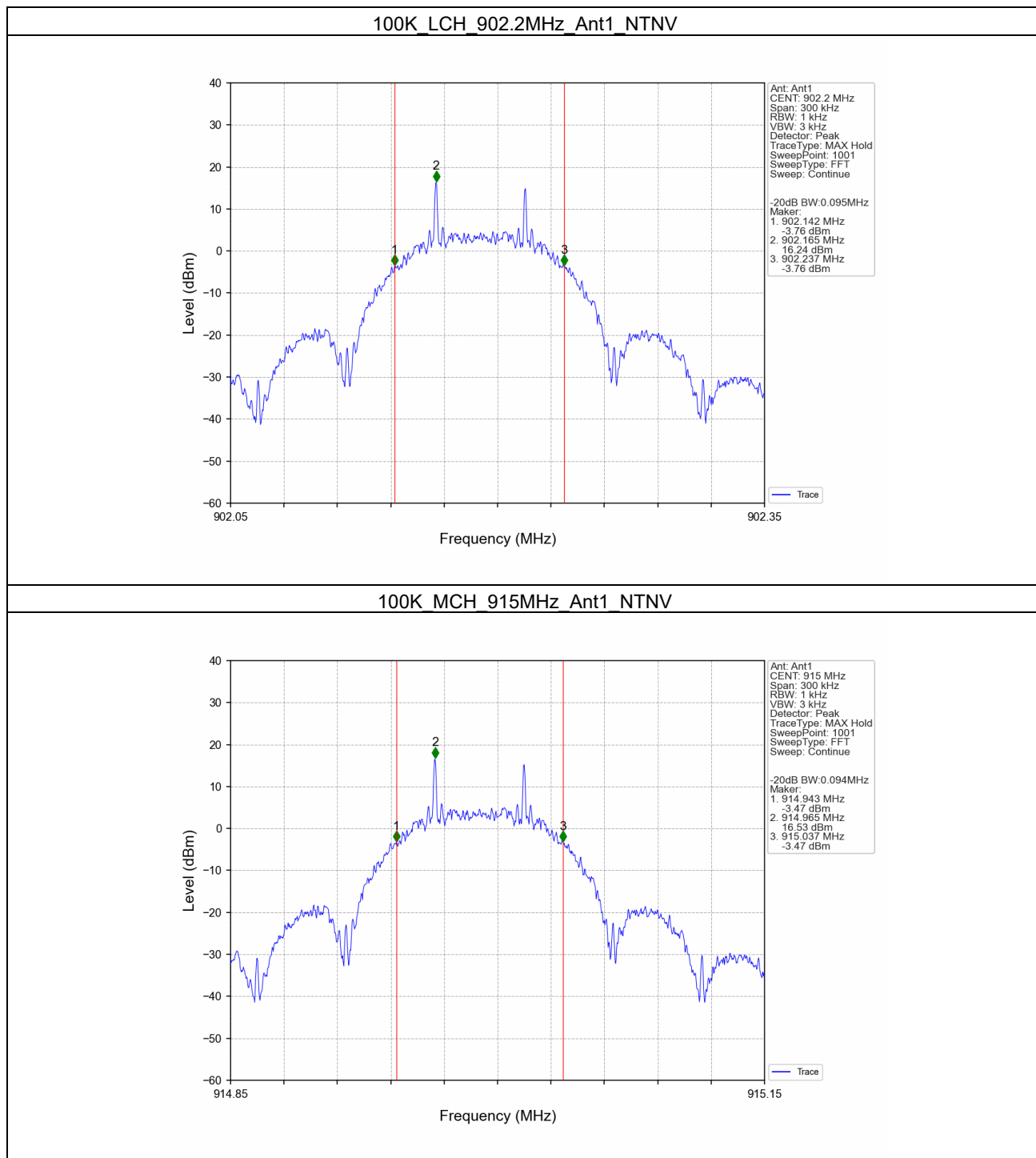
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2.2.2 20dB BW



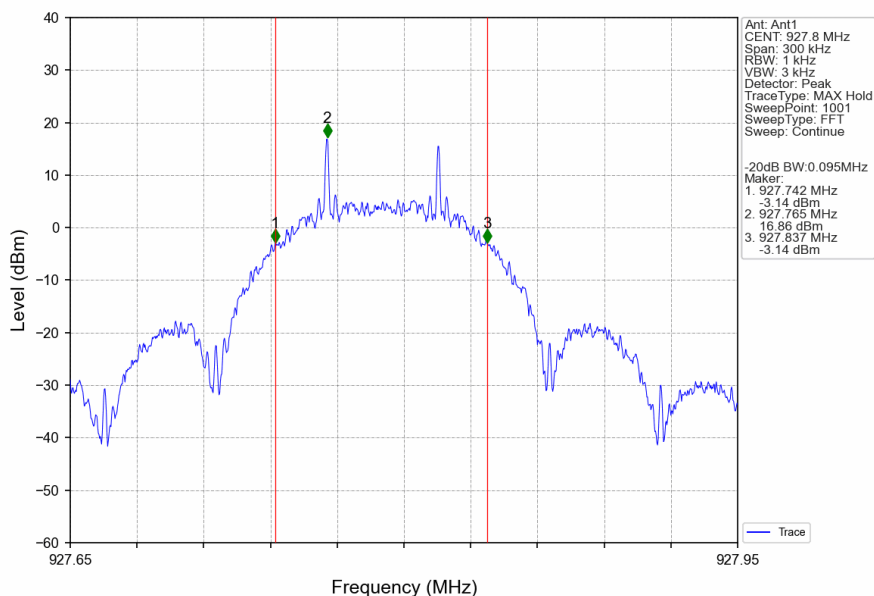
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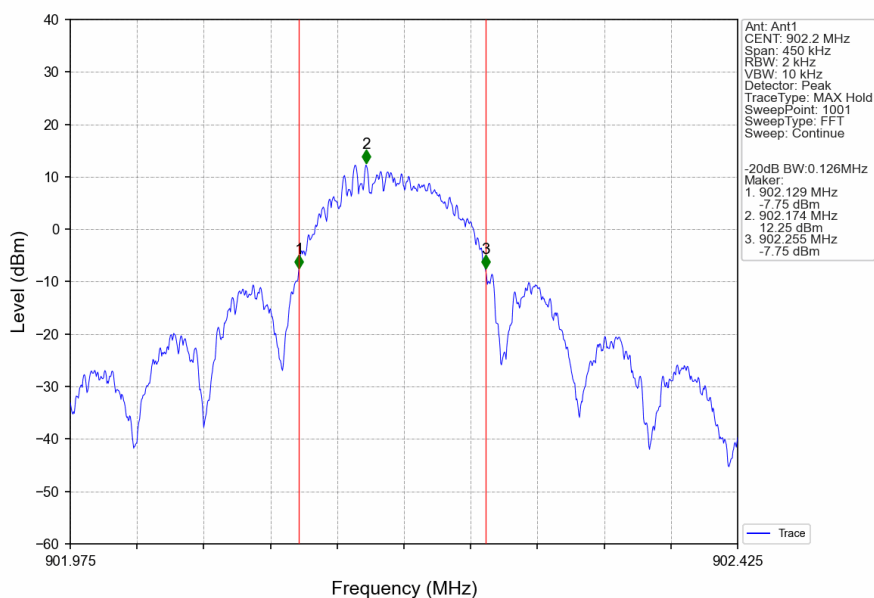
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100K_HCH_927.8MHz_Ant1_NTNV



150K_LCH_902.2MHz_Ant1_NTNV



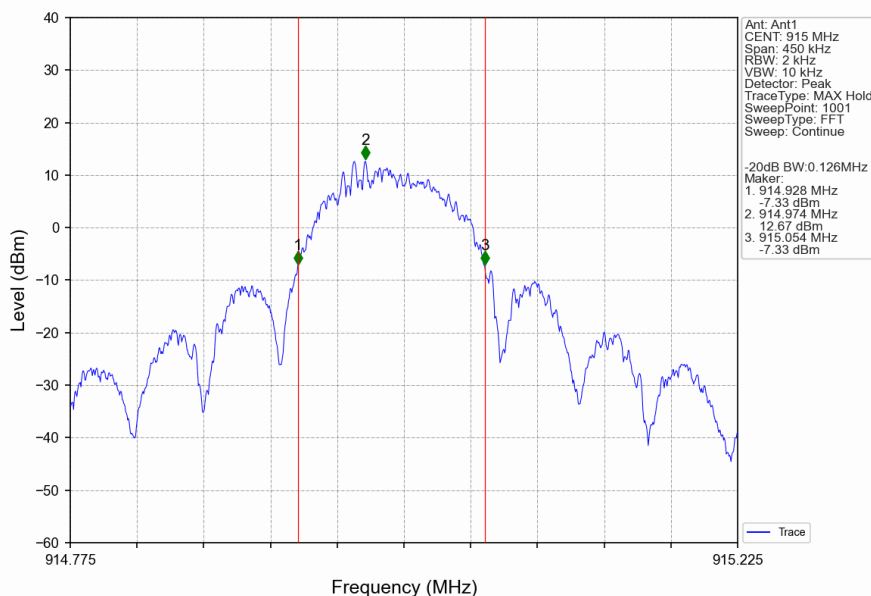
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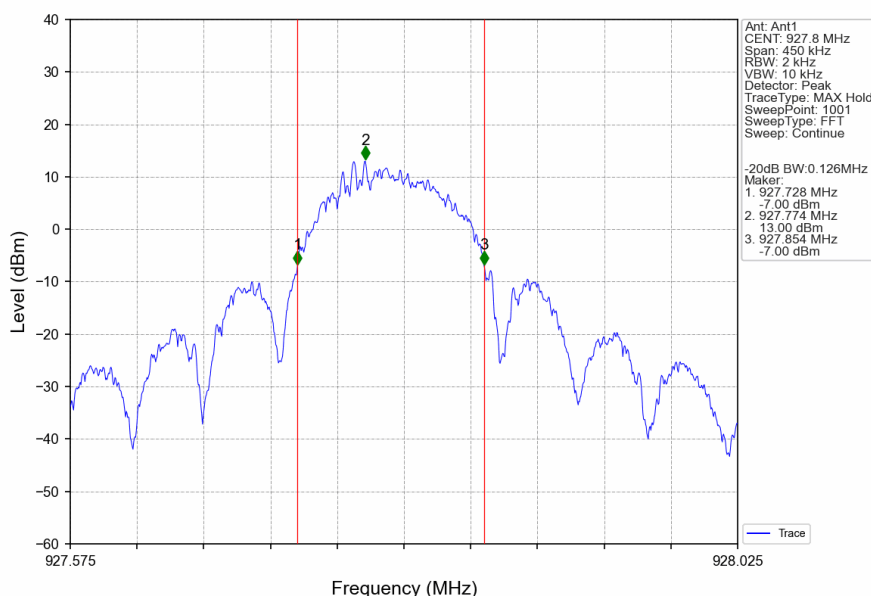
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150K_MCH_915MHz_Ant1_NTNV



150K_HCH_927.8MHz_Ant1_NTNV



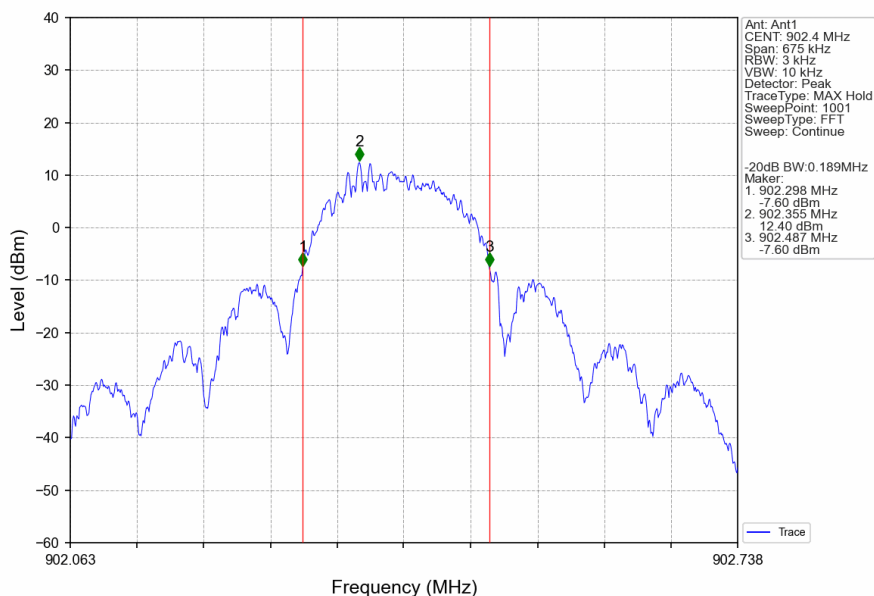
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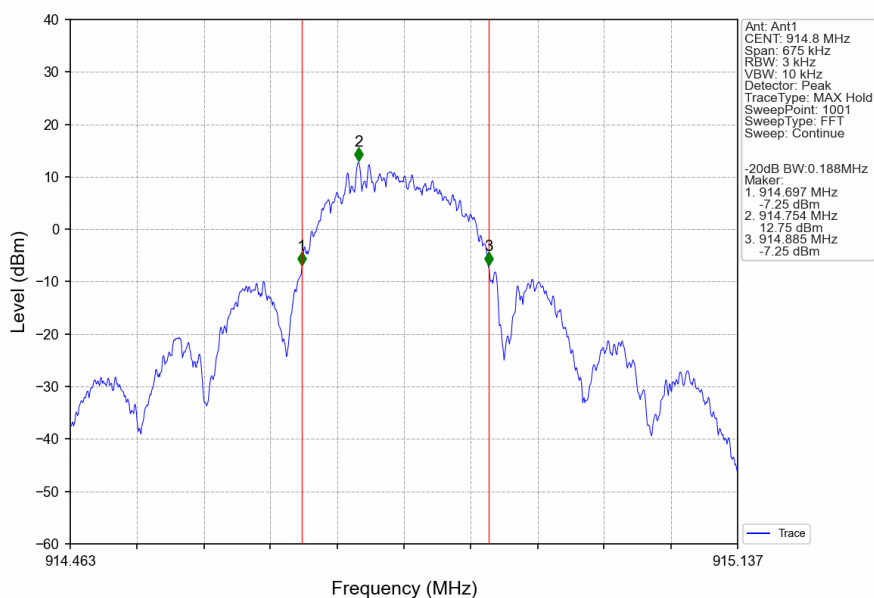
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225K_LCH_902.4MHz_Ant1_NTNV



225K_MCH_914.8MHz_Ant1_NTNV



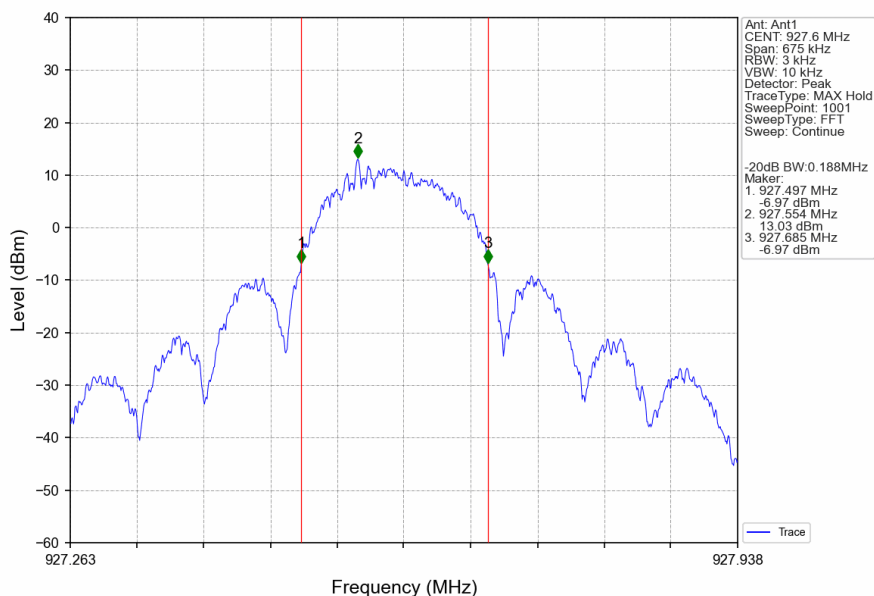
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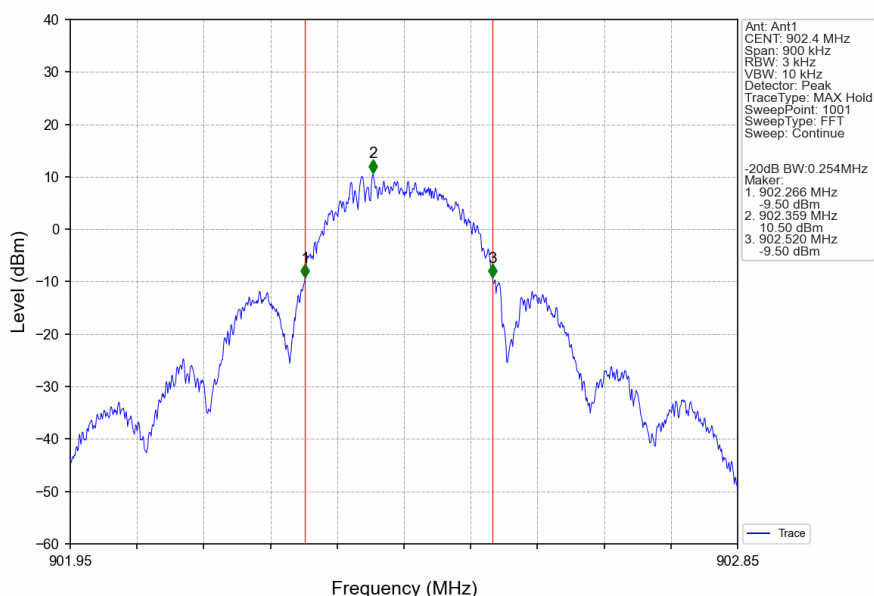
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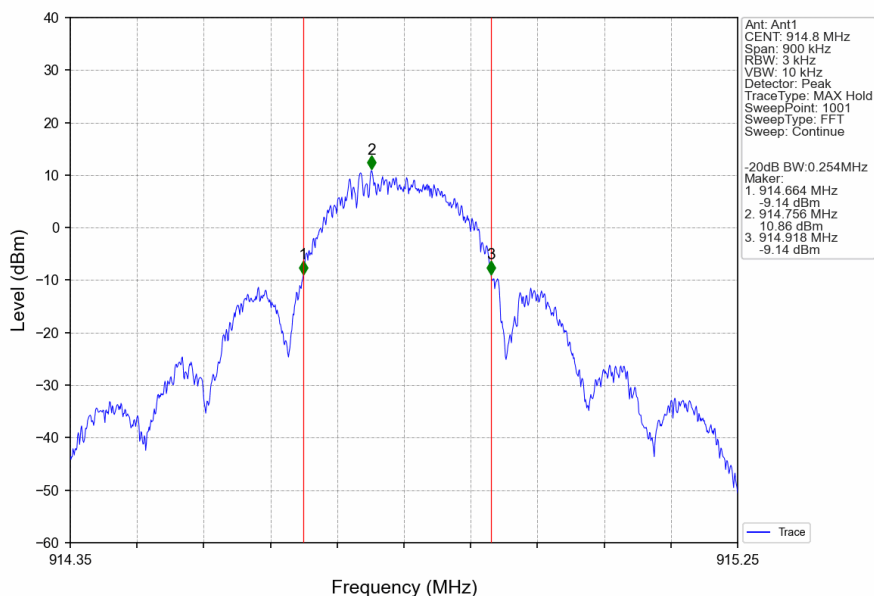
225K HCH 927.6MHz Ant1 NTN



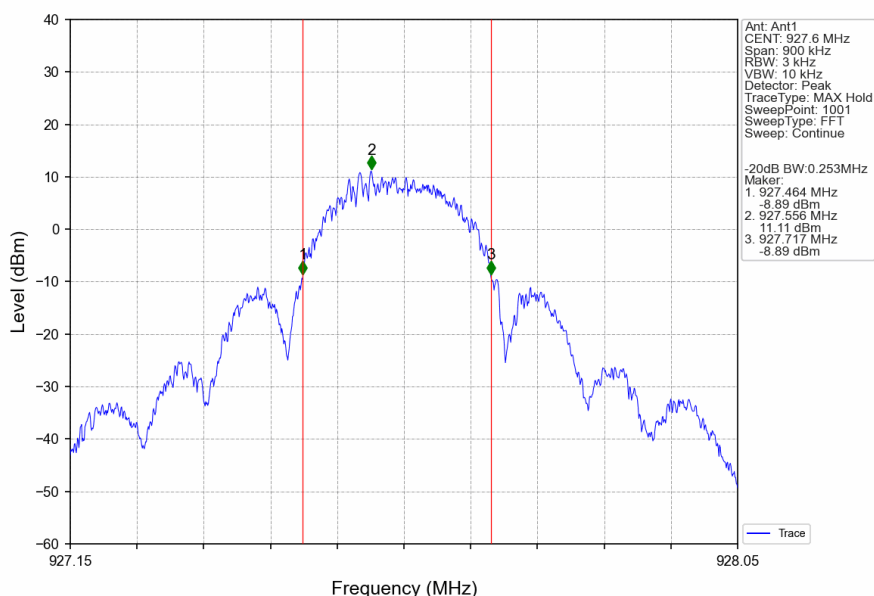
300K LCH 902.4MHz Ant1 NTN



300K_MCH_914.8MHz_Ant1_NTNV



300K_HCH_927.6MHz_Ant1_NTNV



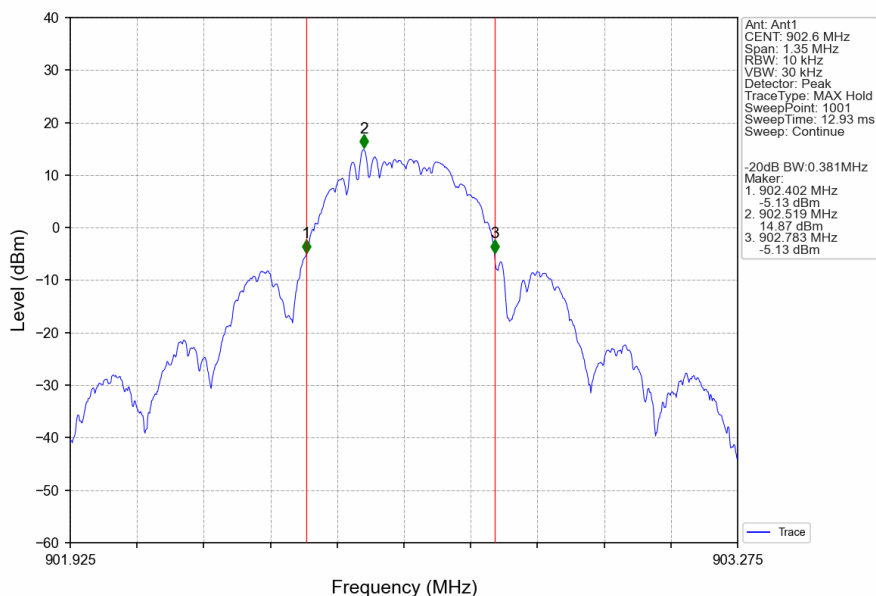
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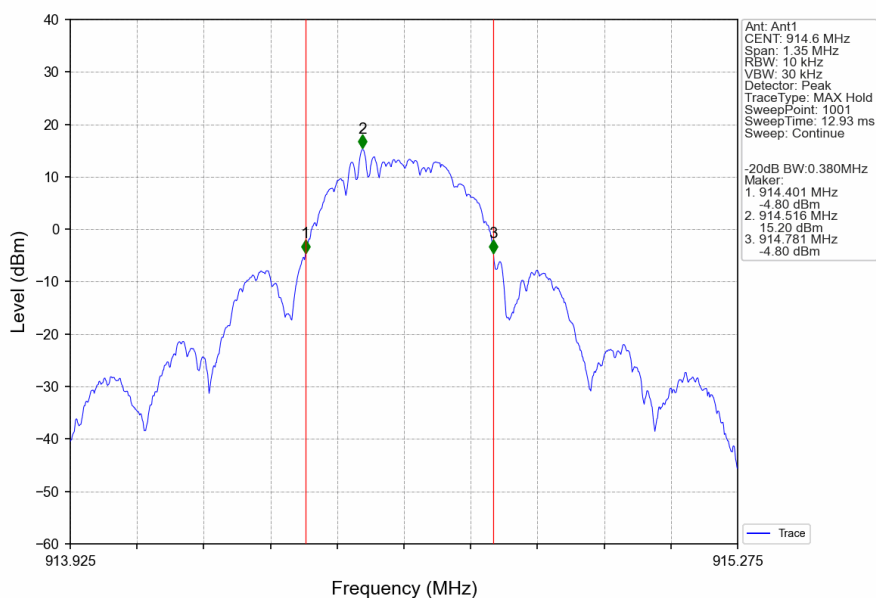
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450K_LCH_902.6MHz_Ant1_NTNV



450K_MCH_914.6MHz_Ant1_NTNV



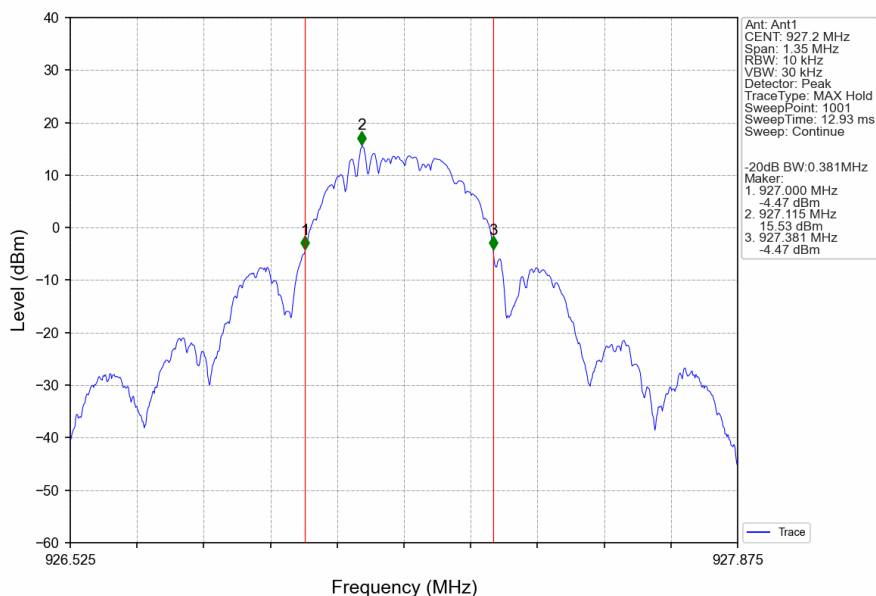
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450K_HCH_927.2MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3s Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
100K	SISO	902.2	13.53	<=30	Pass
		915	13.61	<=30	Pass
		927.8	13.62	<=30	Pass
150K	SISO	902.2	13.51	<=30	Pass
		915	13.58	<=30	Pass
		927.8	13.60	<=30	Pass
225K	SISO	902.4	13.55	<=30	Pass
		914.8	13.52	<=30	Pass
		927.6	13.55	<=30	Pass
300K	SISO	902.4	13.58	<=30	Pass
		914.8	13.54	<=30	Pass
		927.6	13.55	<=30	Pass
450K	SISO	902.6	13.57	<=23.98	Pass
		914.6	13.53	<=23.98	Pass
		927.2	13.56	<=23.98	Pass

Note1: Antenna Gain: Ant1: 2.24dBi;

4. Carrier Frequency Separation

4.1 Test Result

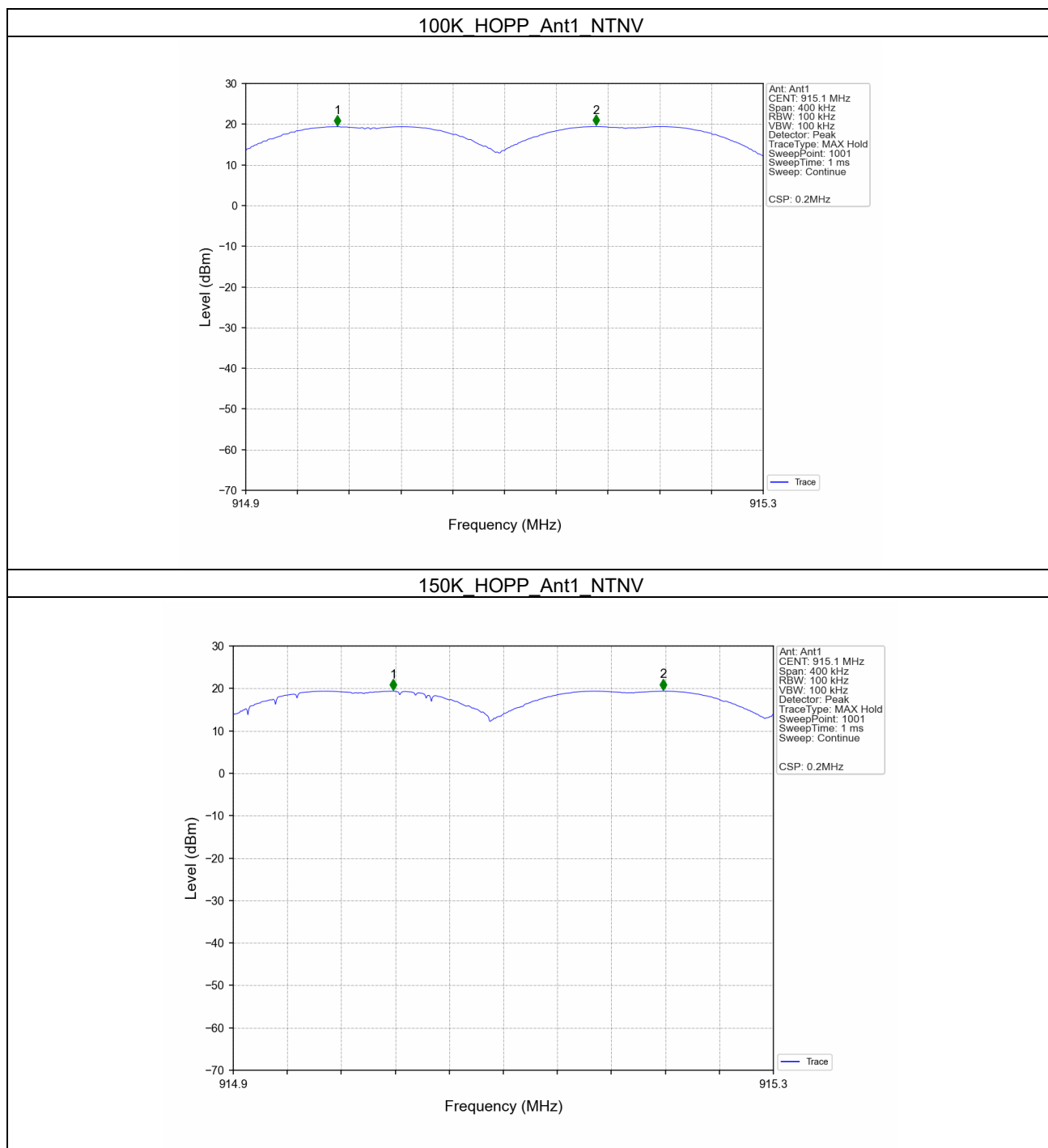
4.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
100K	SISO	HOPP	0.200	0.095	>=0.095	Pass
150K	SISO	HOPP	0.200	0.126	>=0.126	Pass
225K	SISO	HOPP	0.398	0.189	>=0.189	Pass
300K	SISO	HOPP	0.403	0.254	>=0.254	Pass
450K	SISO	HOPP	0.598	0.381	>=0.381	Pass

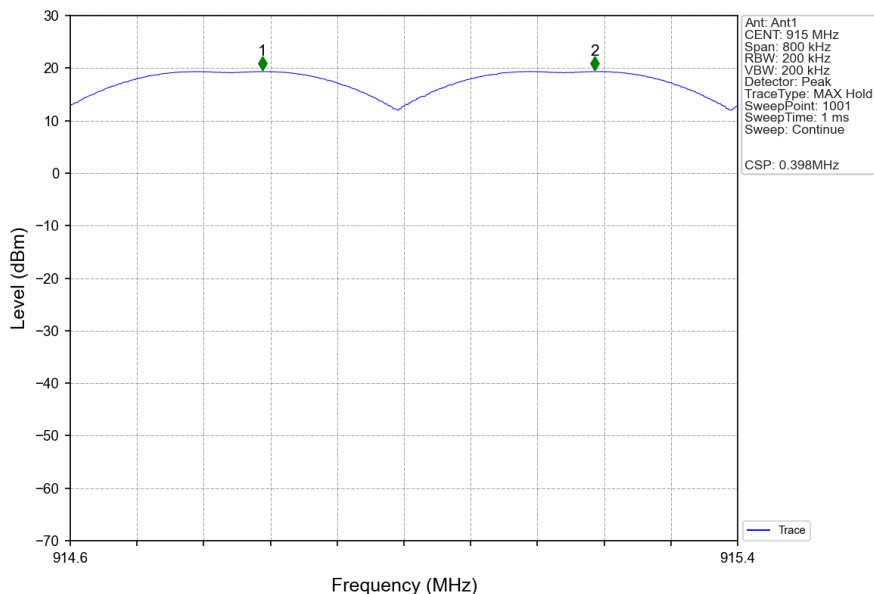


4.2 Test Graph

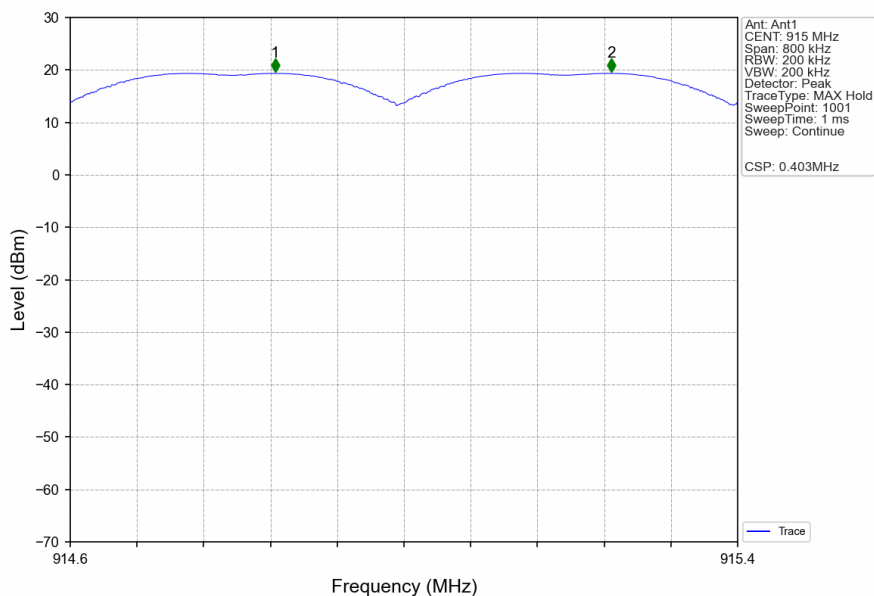
4.2.1 Ant1



225K_HOPP_Ant1_NTNV



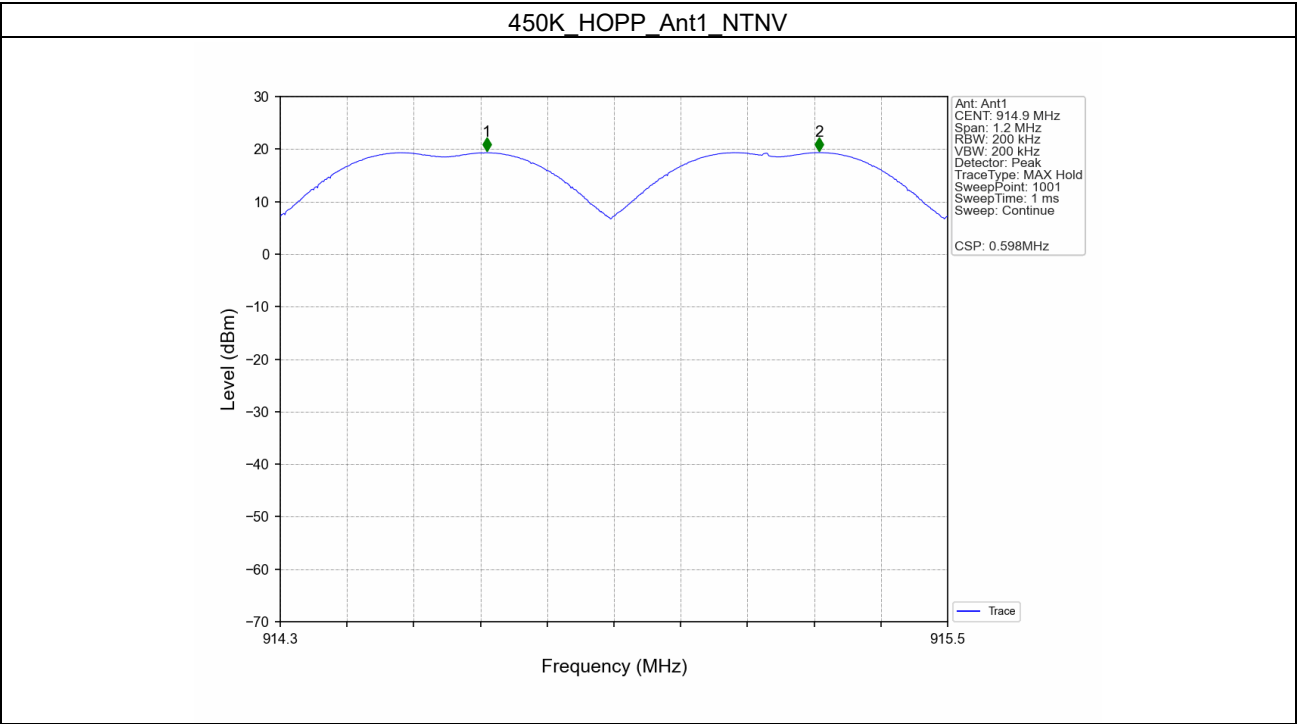
300K_HOPP_Ant1_NTNV



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5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
100K	SISO	HOPP	129	>=50	Pass
150K	SISO	HOPP	129	>=50	Pass
225K	SISO	HOPP	64	>=50	Pass
300K	SISO	HOPP	64	>=25	Pass
450K	SISO	HOPP	42	>=25	Pass



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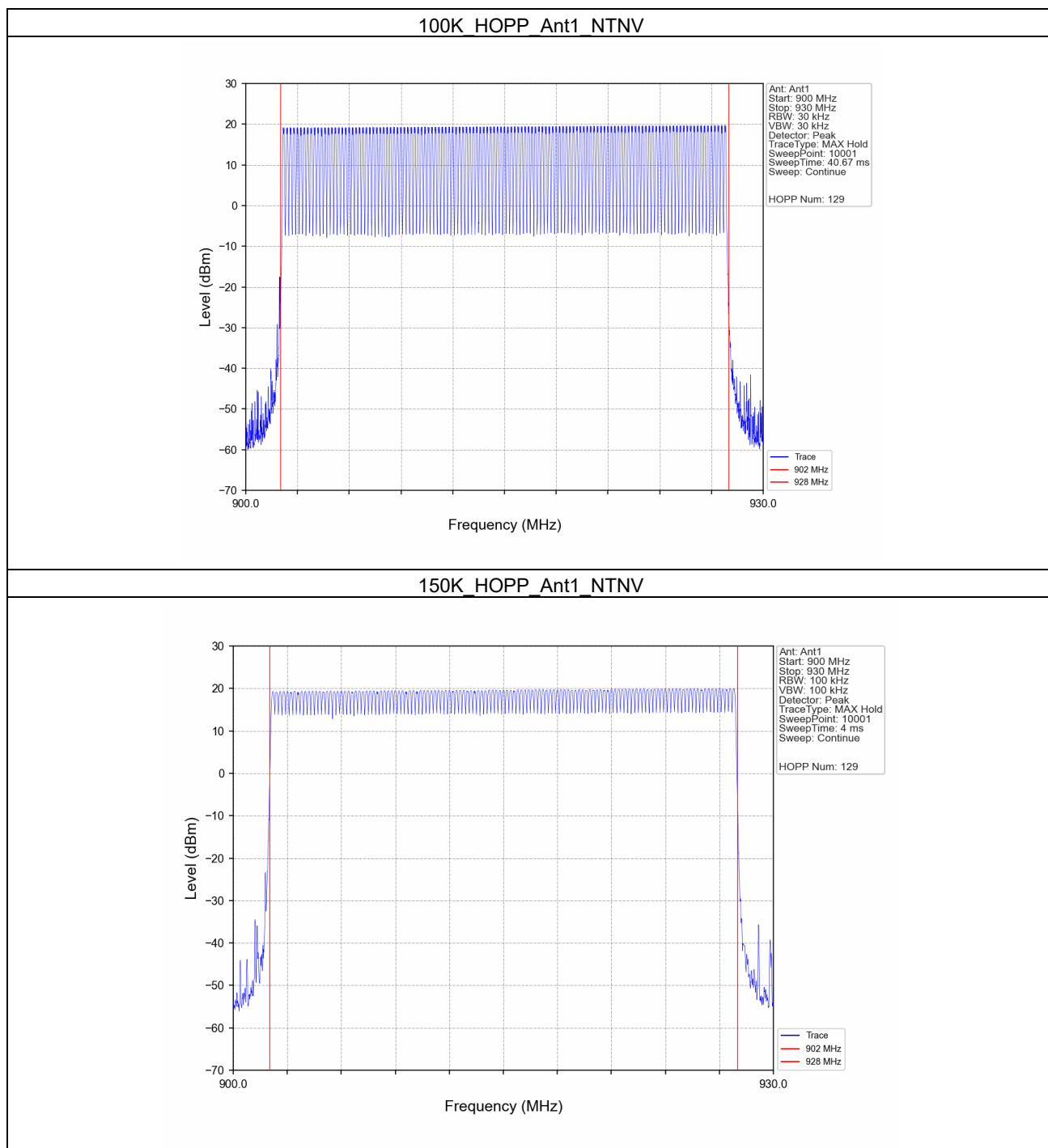
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5.2 Test Graph

5.2.1 HoppNum



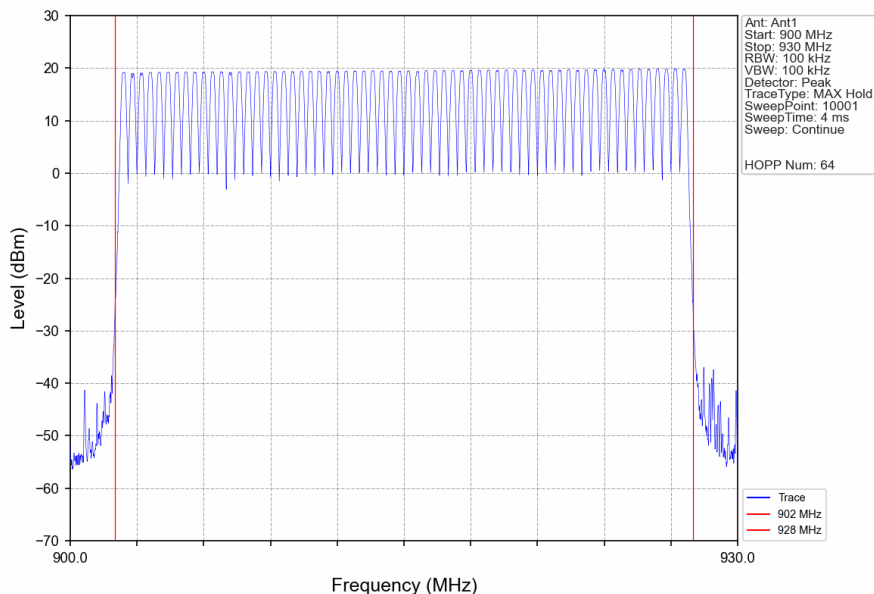
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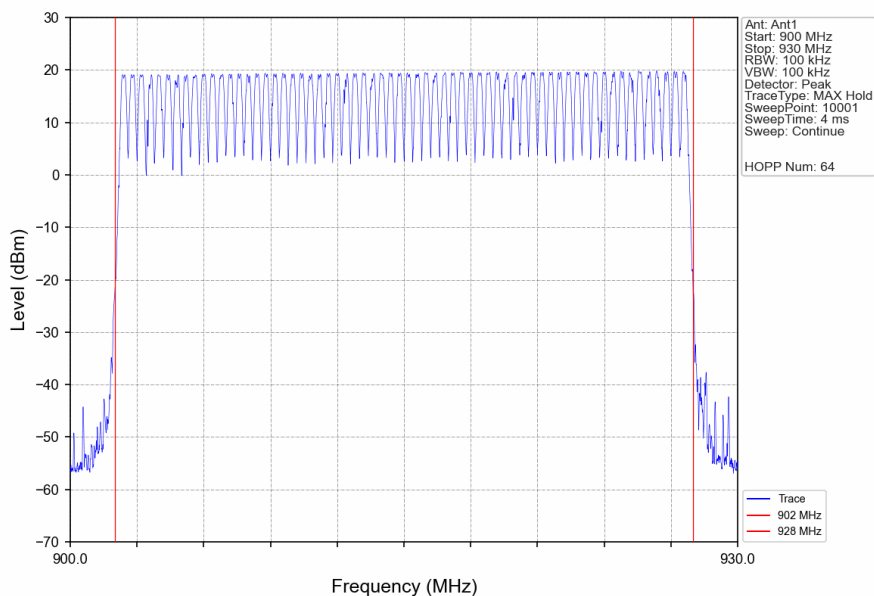
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225K_HOPP_Ant1_NTNV



300K_HOPP_Ant1_NTNV



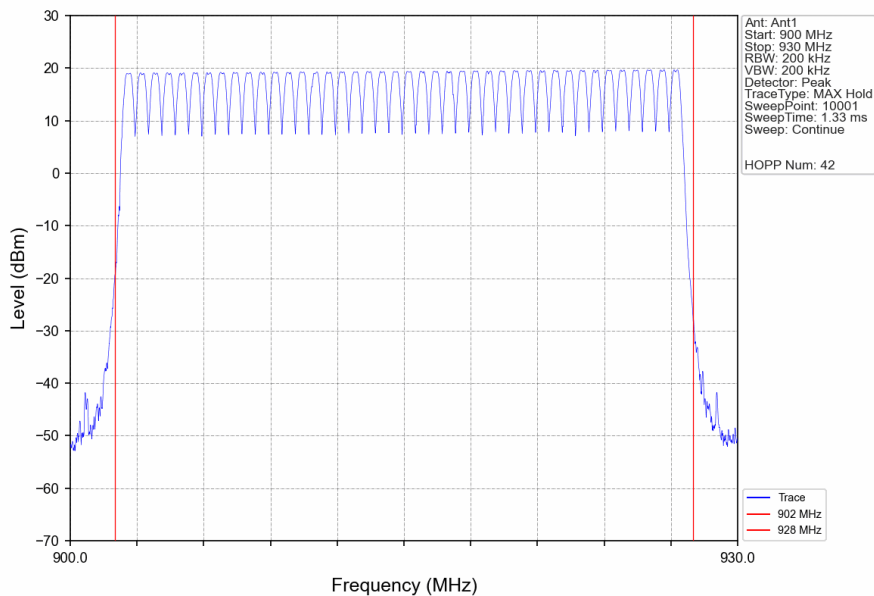
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450K_HOPP_Ant1_NTNV



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6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

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
100K	SISO	HOPP	38.10	20	3	114.3	<=400	Pass
150K	SISO	HOPP	19.20	20	2	38.4	<=400	Pass
225K	SISO	HOPP	12.90	20	8	103.2	<=400	Pass
300K	SISO	HOPP	9.6	10	2	19.2	<=400	Pass
450K	SISO	HOPP	6.9	10	2	13.8	<=400	Pass



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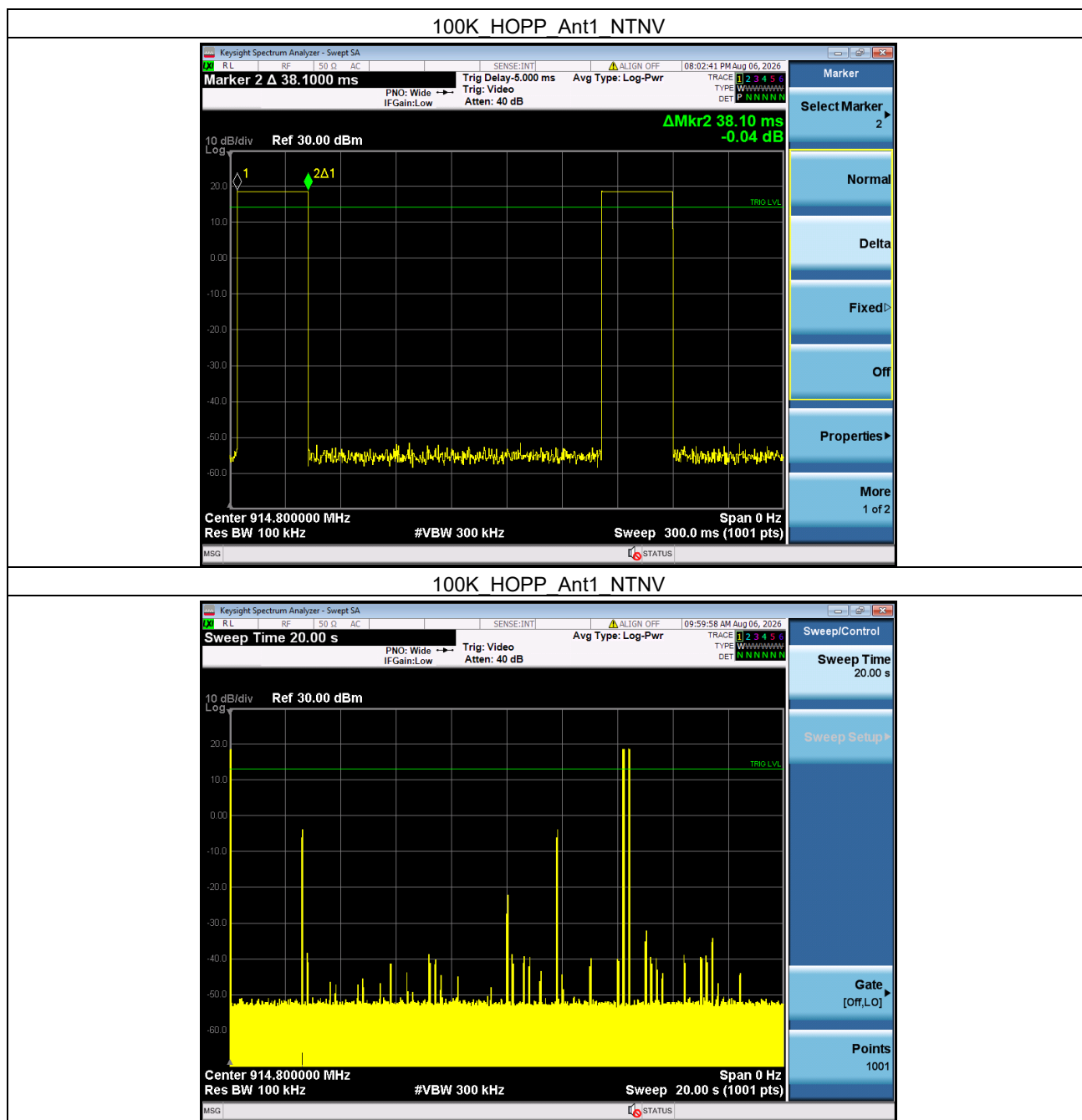
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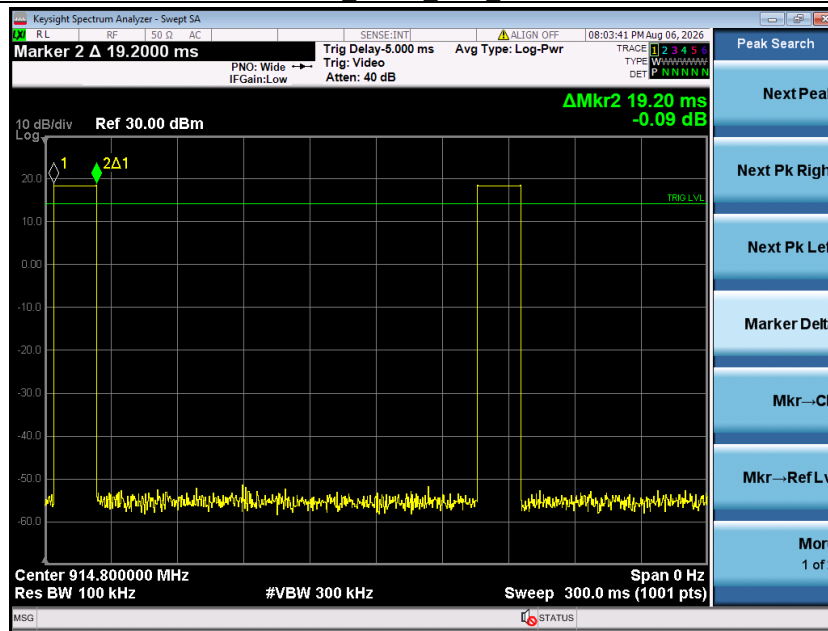
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6.2 Test Graph

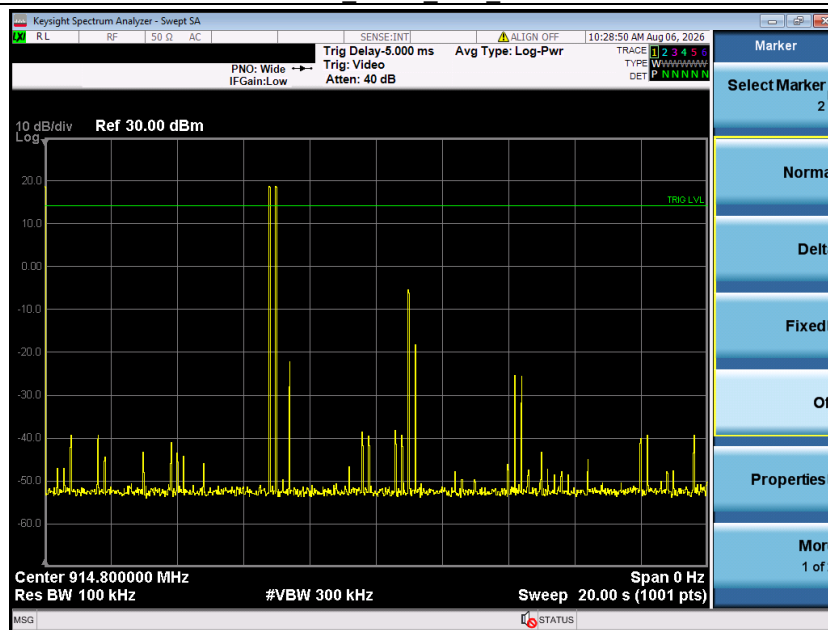
6.2.1 Ant1



150K HOPP Ant1 NTN



150K HOPP Ant1 NTN

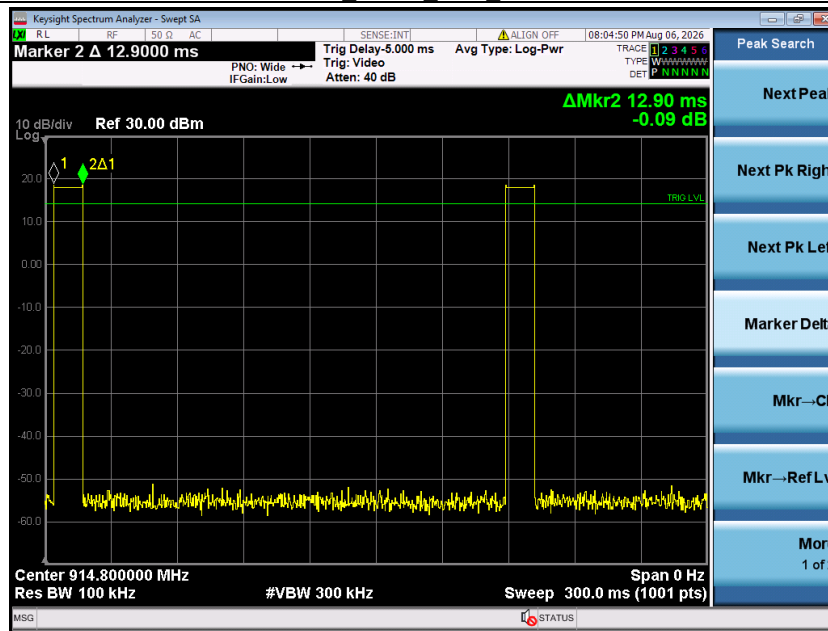


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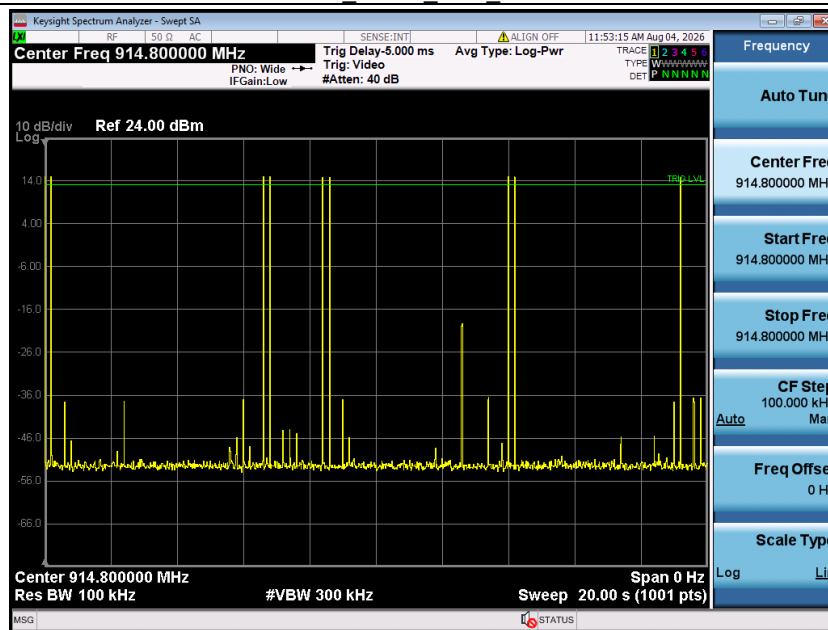
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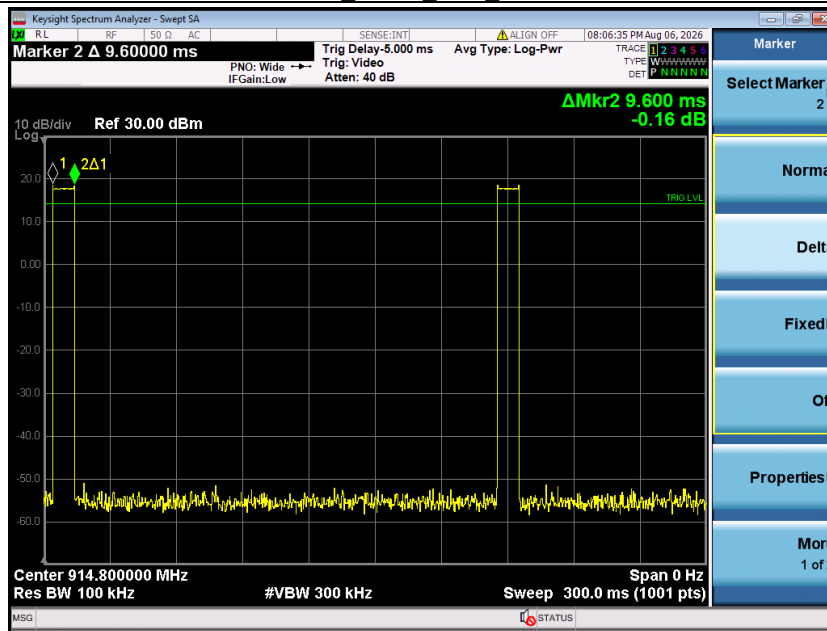
225K HOPP Ant1 NTN



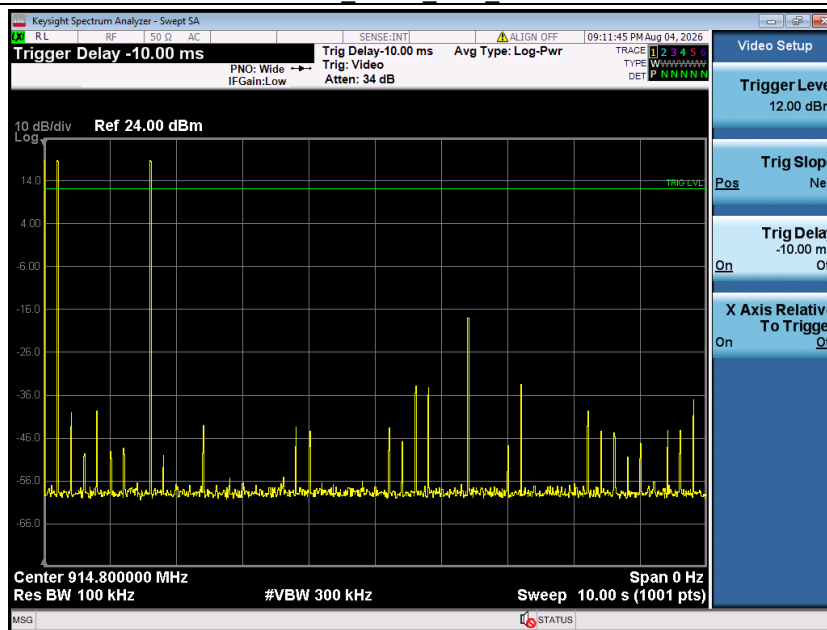
225K HOPP Ant1 NTN



300K HOPP Ant1 NTN



300K HOPP Ant1 NTN

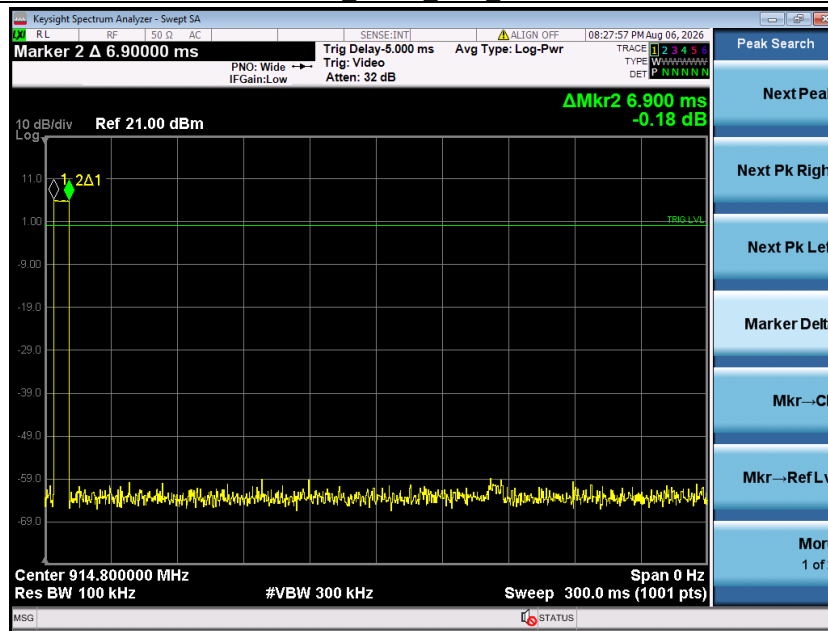


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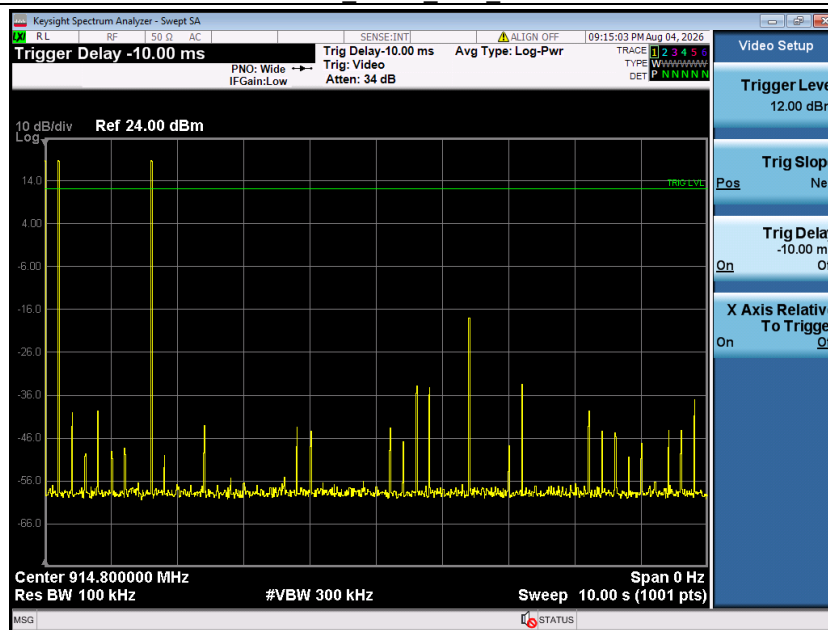
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450K HOPP Ant1 NTN



450K HOPP Ant1 NTN



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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
100K	SISO	902.2	1	13.52
		915	1	13.61
		927.8	1	13.62
150K	SISO	902.2	1	13.55
		915	1	13.63
		927.8	1	13.65
225K	SISO	902.4	1	13.60
		914.8	1	13.58
		927.6	1	13.60
300K	SISO	902.4	1	13.62
		914.8	1	13.59
		927.6	1	13.59
450K	SISO	902.6	1	13.55
		914.6	1	13.52
		927.2	1	13.54



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SZEMC-TRF-01 Rev. A/2

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7.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
100K	SISO	902.2	1	13.62	-6.38	Pass
		915	1	13.62	-6.38	Pass
		927.8	1	13.62	-6.38	Pass
		HOPP	1	13.62	-6.38	Pass
				13.62	-6.38	Pass
150K	SISO	902.2	1	13.65	-6.35	Pass
		915	1	13.65	-6.35	Pass
		927.8	1	13.65	-6.35	Pass
		HOPP	1	13.65	-6.35	Pass
				13.65	-6.35	Pass
225K	SISO	902.4	1	13.60	-6.40	Pass
		914.8	1	13.60	-6.40	Pass
		927.6	1	13.60	-6.40	Pass
		HOPP	1	13.60	-6.40	Pass
				13.60	-6.40	Pass
300K	SISO	902.4	1	13.62	-6.38	Pass
		914.8	1	13.62	-6.38	Pass
		927.6	1	13.62	-6.38	Pass
		HOPP	1	13.62	-6.38	Pass
				13.62	-6.38	Pass
450K	SISO	902.6	1	13.55	-6.45	Pass
		914.6	1	13.55	-6.45	Pass
		927.2	1	13.55	-6.45	Pass
		HOPP	1	13.55	-6.45	Pass
				13.55	-6.45	Pass



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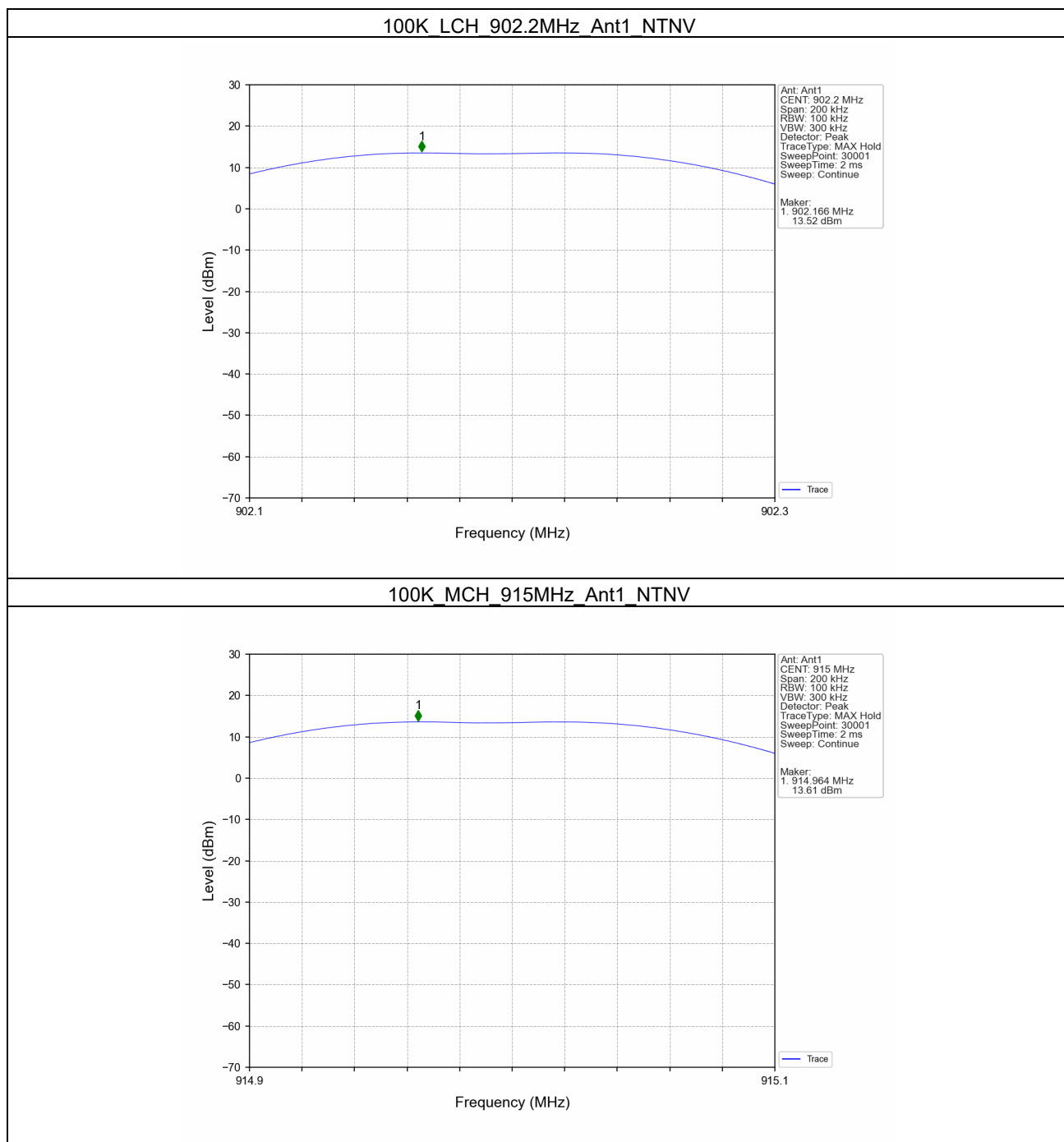
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7.2 Test Graph

7.2.1 Ref

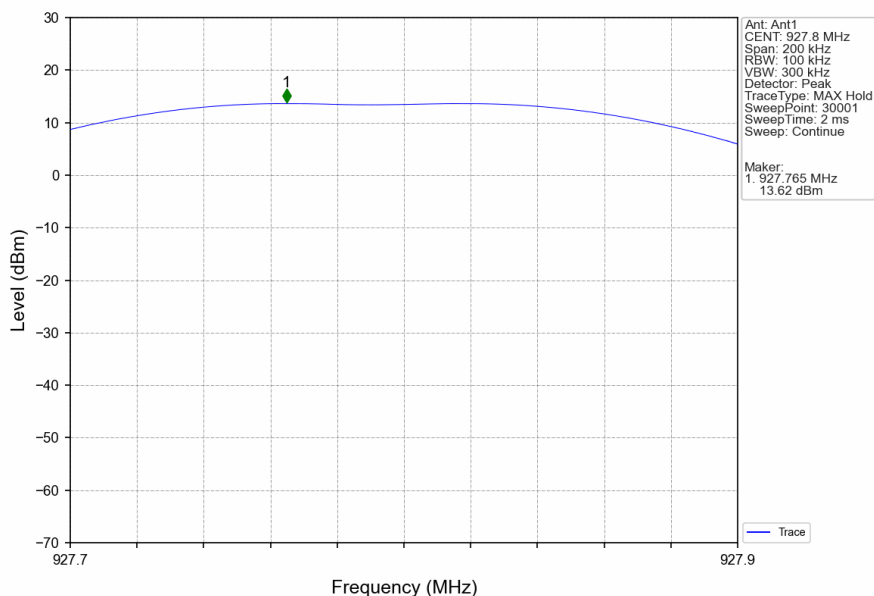


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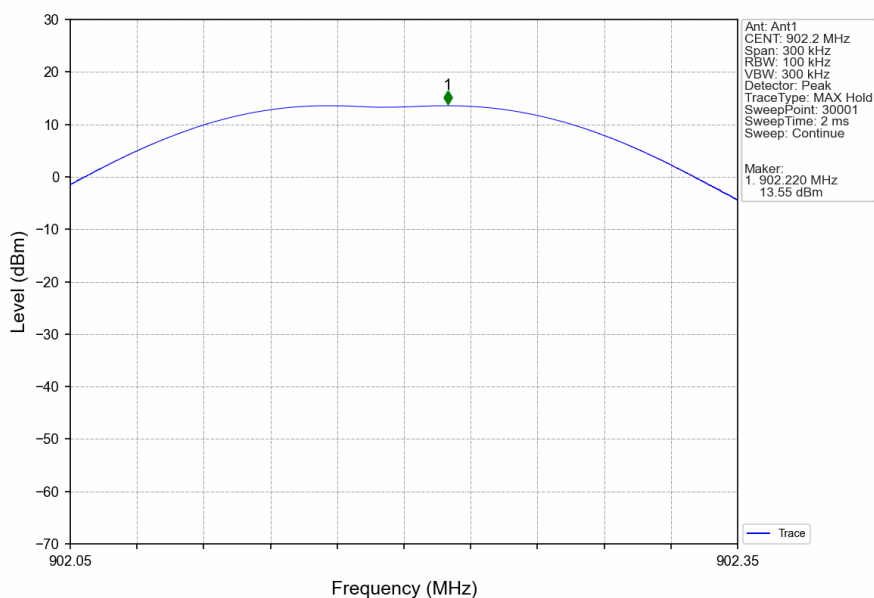
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100K_HCH_927.8MHz_Ant1_NTNV



150K_LCH_902.2MHz_Ant1_NTNV



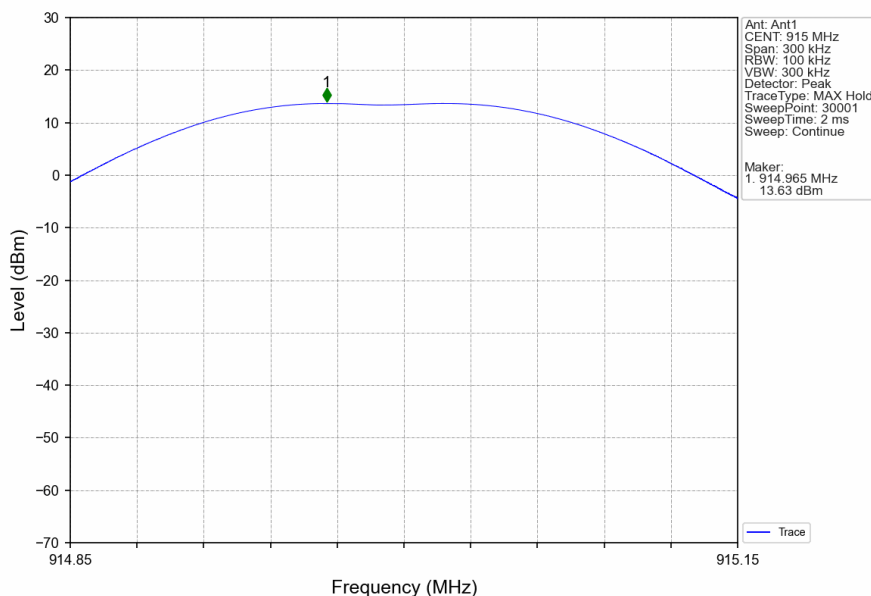
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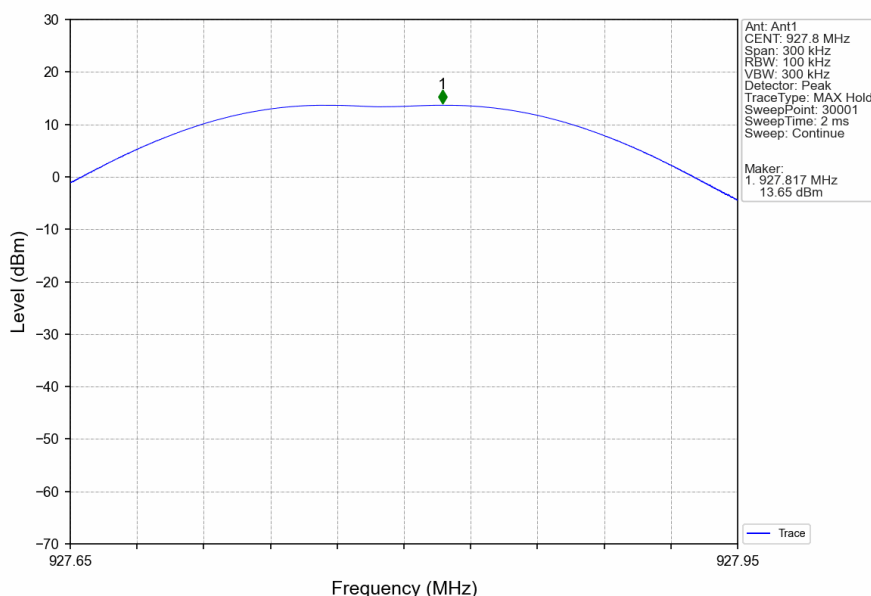
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150K_MCH_915MHz_Ant1_NTNV



150K_HCH_927.8MHz_Ant1_NTNV



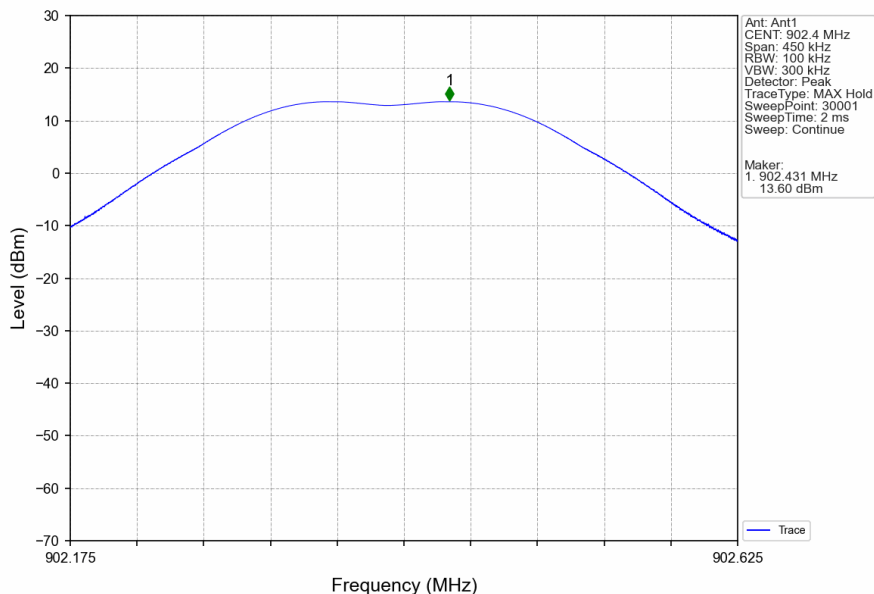
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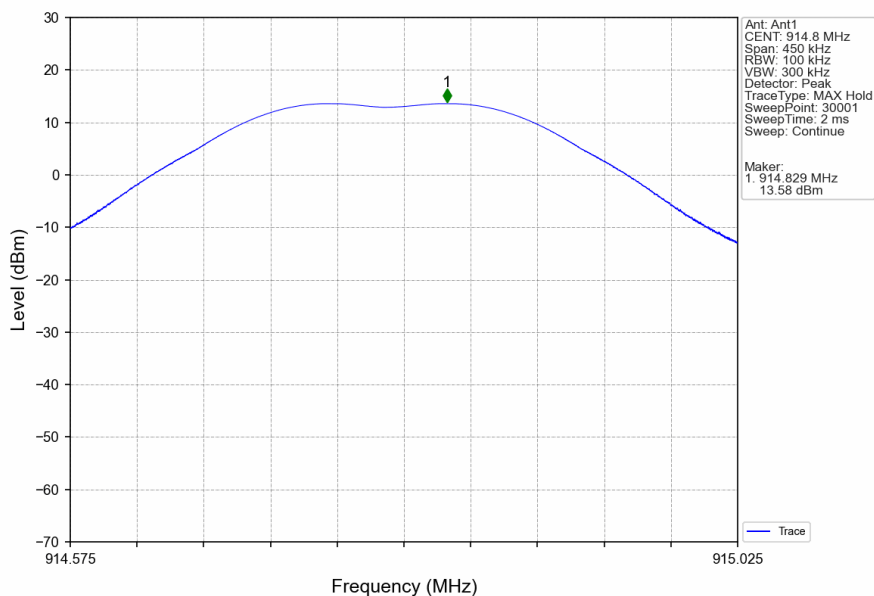
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225K_LCH_902.4MHz_Ant1_NTNV



225K_MCH_914.8MHz_Ant1_NTNV



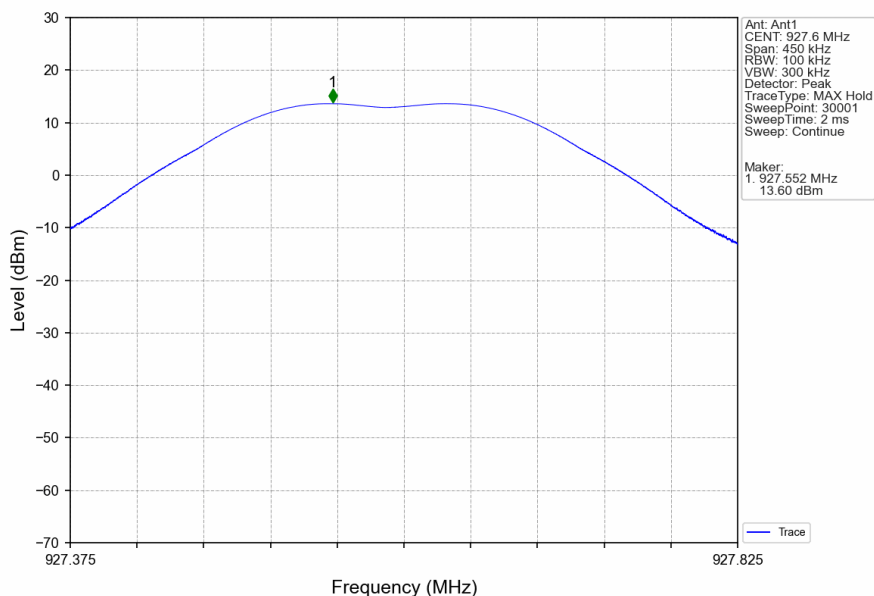
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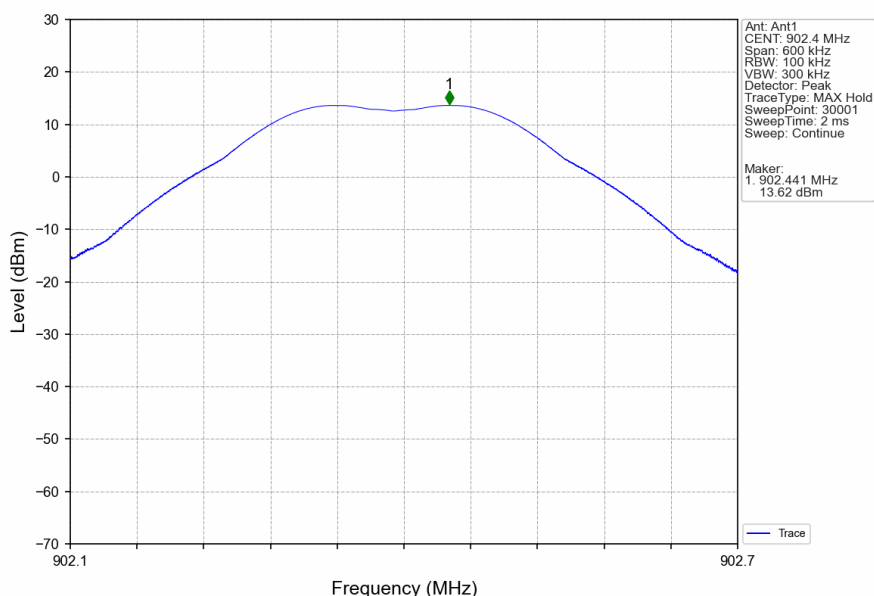
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225K_HCH_927.6MHz_Ant1_NTNV



300K_LCH_902.4MHz_Ant1_NTNV



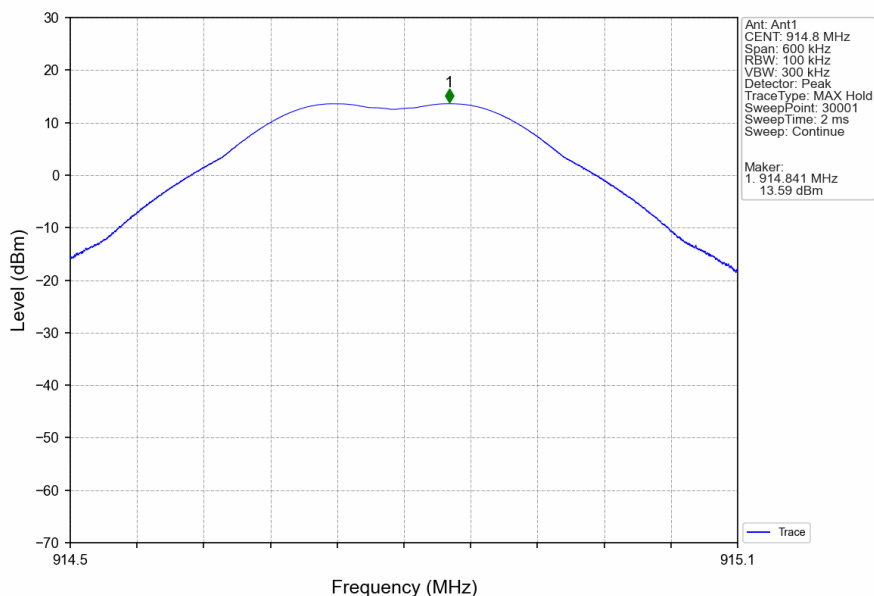
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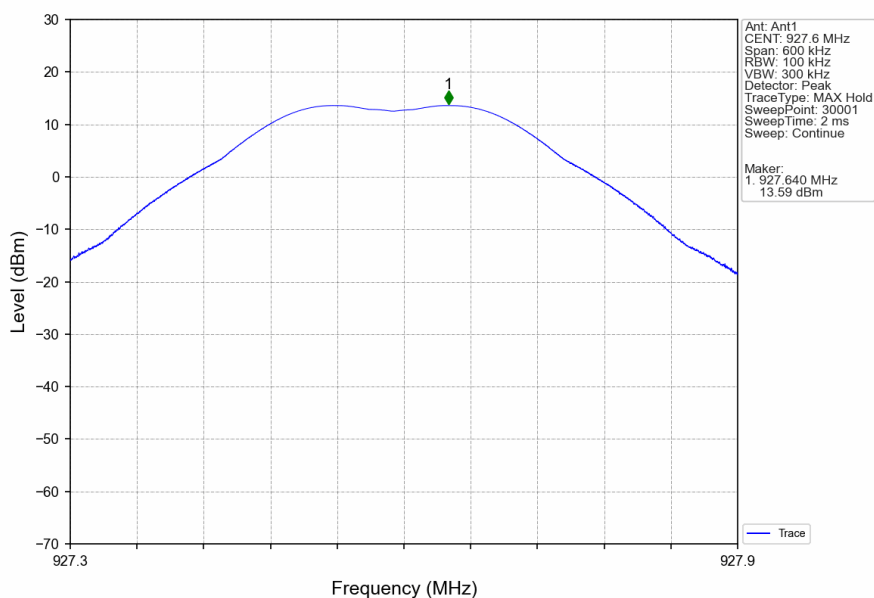
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300K_MCH_914.8MHz_Ant1_NTNV



300K_HCH_927.6MHz_Ant1_NTNV



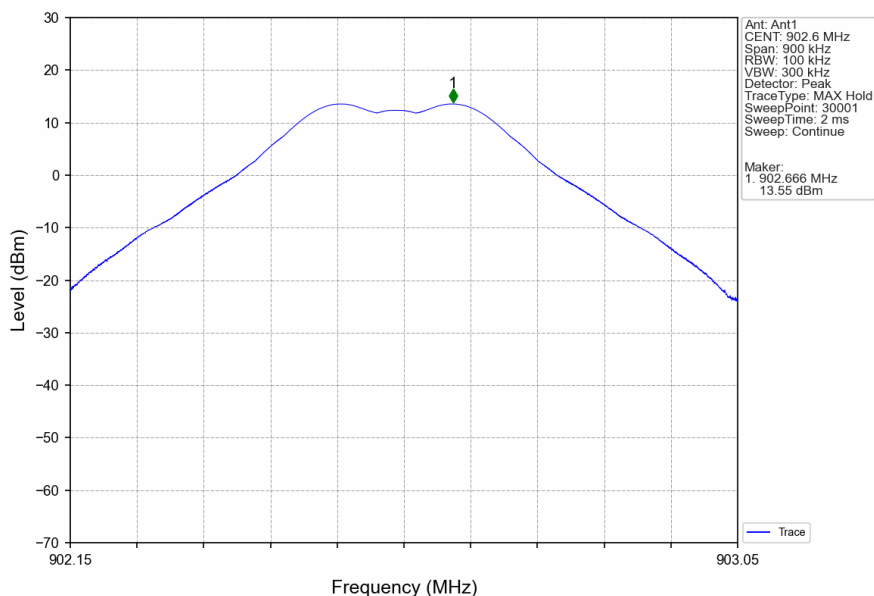
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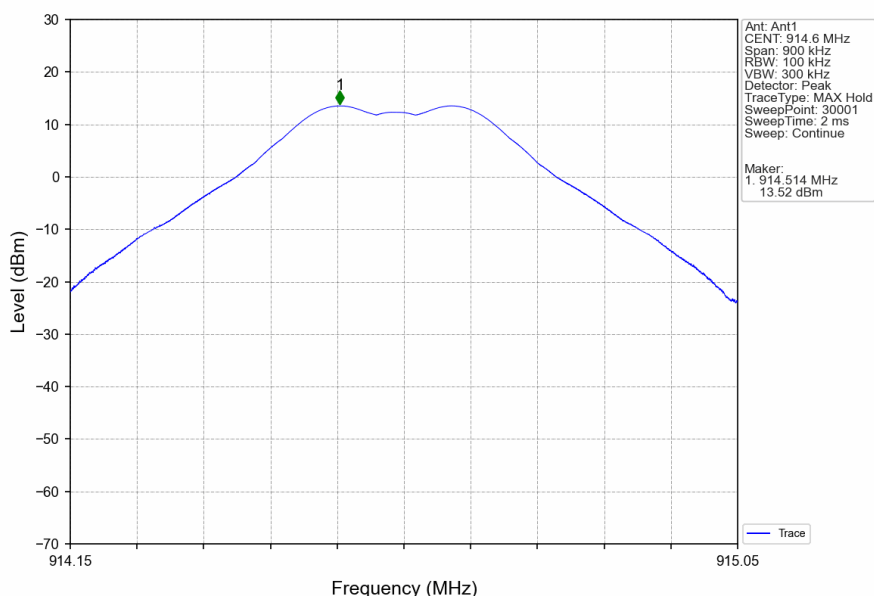
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450K_LCH_902.6MHz_Ant1_NTNV



450K_MCH_914.6MHz_Ant1_NTNV



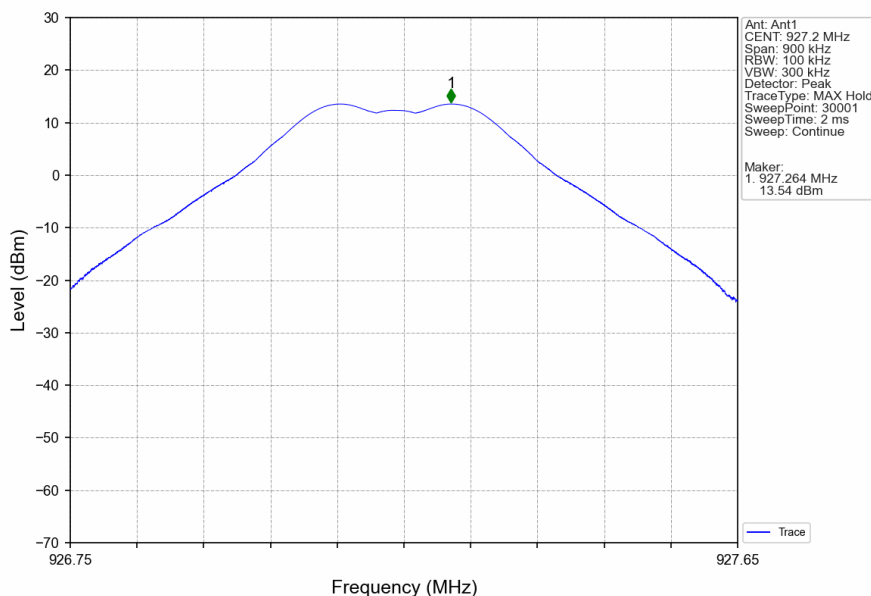
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450K_HCH_927.2MHz_Ant1_NTNV



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