



**SGS-CSTC Standards Technical Services
(Shanghai) Co., Ltd.**

Report No.: SHCR220800179402
Page: 1 of 203

TEST REPORT

Application No.: SHCR2208001794CO
FCC ID: 2A826RTK-EG25G
Applicant: Vivax-Metrotech (Shanghai) Ltd.
Address of Applicant: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Manufacturer: Vivax-Metrotech (Shanghai) Ltd.
Address of Manufacturer: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Factory: Vivax-Metrotech (Shanghai) Ltd.
Address of Factory: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Equipment Under Test (EUT):
EUT Name: Pipe and Cable Locator
Model No.: vLoc3 RTK-Pro
Standard(s) : 47 CFR FCC Part 2
47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
Date of Receipt: 2022-08-24
Date of Test: 2022-10-01 to 2022-11-28
Date of Issue: 2022-12-02

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

Parlan Zhan

Parlan Zhan
Laboratory Manager



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EEC EMC Lab

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Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-02	/

Authorized for issue by:			
		Bill Wu	
		Bill Wu /Project Engineer	
		Parlam Zhan	
		Parlam Zhan /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §22.913 §24.232 §27.50(d)	EIRP≤2W (Band 2) EIRP≤1W (Band 4) ERP≤7W (Band 5)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Radiated spurious emissions	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235 §27.54	≤ ±2.5ppm.	PASS



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 7.2V 6700mAh rechargeable battery Charging adapter: Model:GM36-084200-2 Input:100-240V~50/60Hz Output:8.4V 2A
Test voltage:	DC 7.2V
Serial Number:	22601181026
Firmware version:	1.41 Release
Sample Type:	Portable production
Operation Frequency Band:	UMTS B2, B4, B5
Modulation Type:	UL QPSK, 16QAM DL QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	UMTS B2: 2.3dBi (Provided by the manufacturer) UMTS B4: 2.3dBi (Provided by the manufacturer) UMTS B5: 0.4dBi (Provided by the manufacturer)
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	6.12V DC to 8.28V DC (nominal: 7.2V DC)
HSDPA UE Category:	14
HSUPA UE Category:	6
IMEI:	861861041244024



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4.2 Test Frequency

Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B2	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960 MHz	1987.6 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B4	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
	RX	Channel 1537	Channel 1638	Channel 1738
		2112.4 MHz	2132.6 MHz	2152.6 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B5	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
	RX	Channel 4357	Channel 4408	Channel 4458
		871.4 MHz	881.6 MHz	891.6 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	101kPa	
Temperature:	TN	25 °C
Voltage:	VL	6.12V
	VN	7.20V
	VH	8.28V

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature



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4.4 Description of Support Units

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

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz) 5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-6GHz) 5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

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



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4.6 Test Location

All tests were performed at:

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No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.7 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory
Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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6 Radio Spectrum Matter Test Results

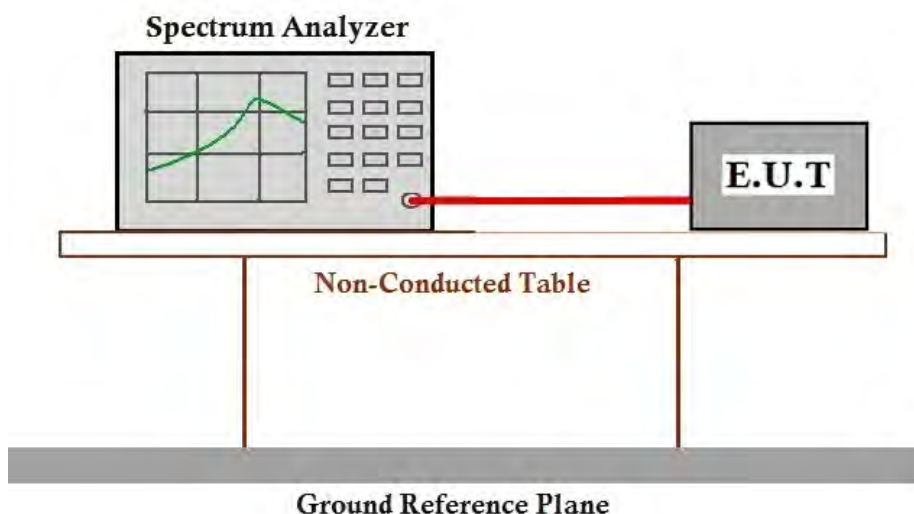
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(d)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: EIRP≤2W (Band 2); EIRP≤1W (Band 4); ERP≤7W (Band 5)

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please Refer to Appendix for Details



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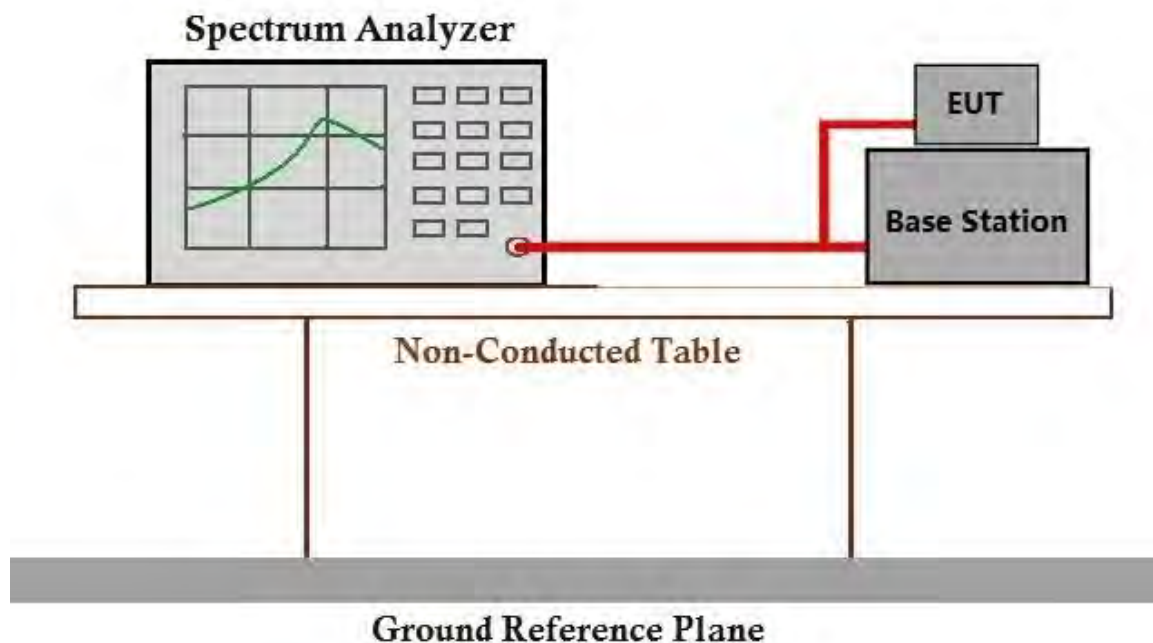
6.2 Peak-Average Ratio

Test Requirement: §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

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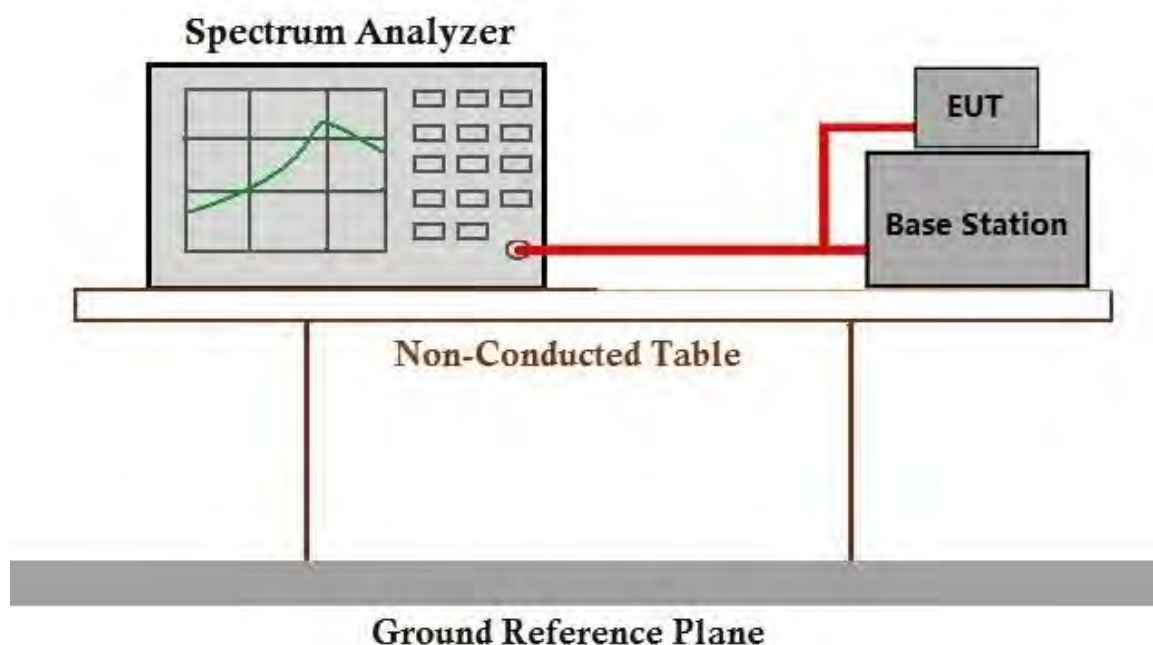
6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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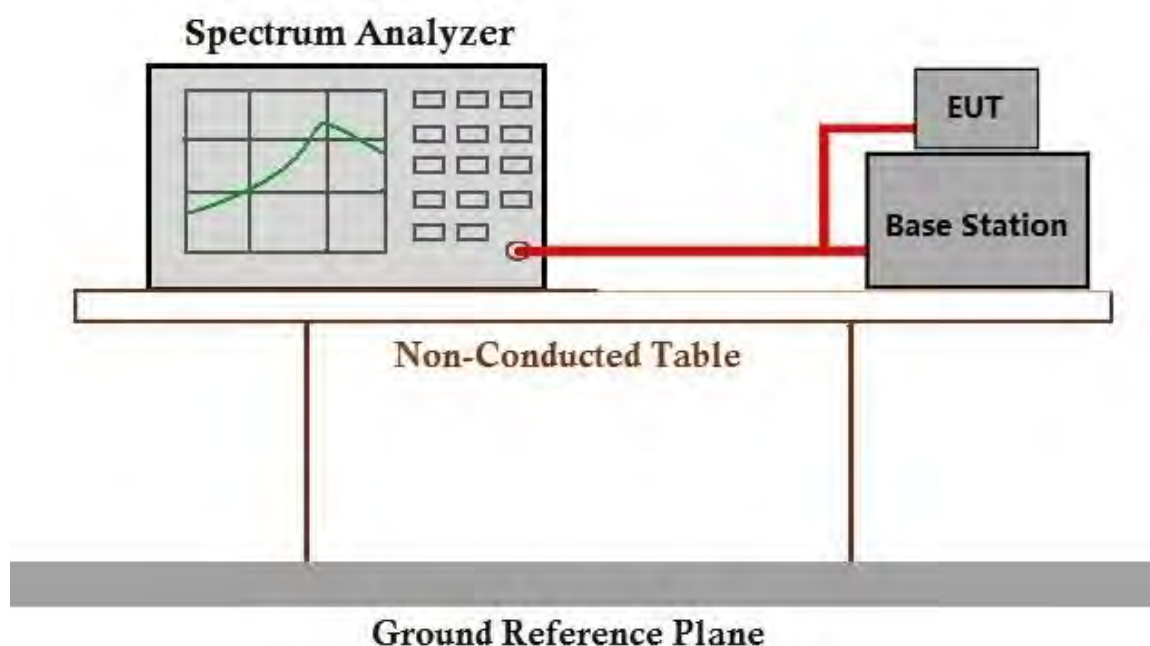
6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238; §27.53(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

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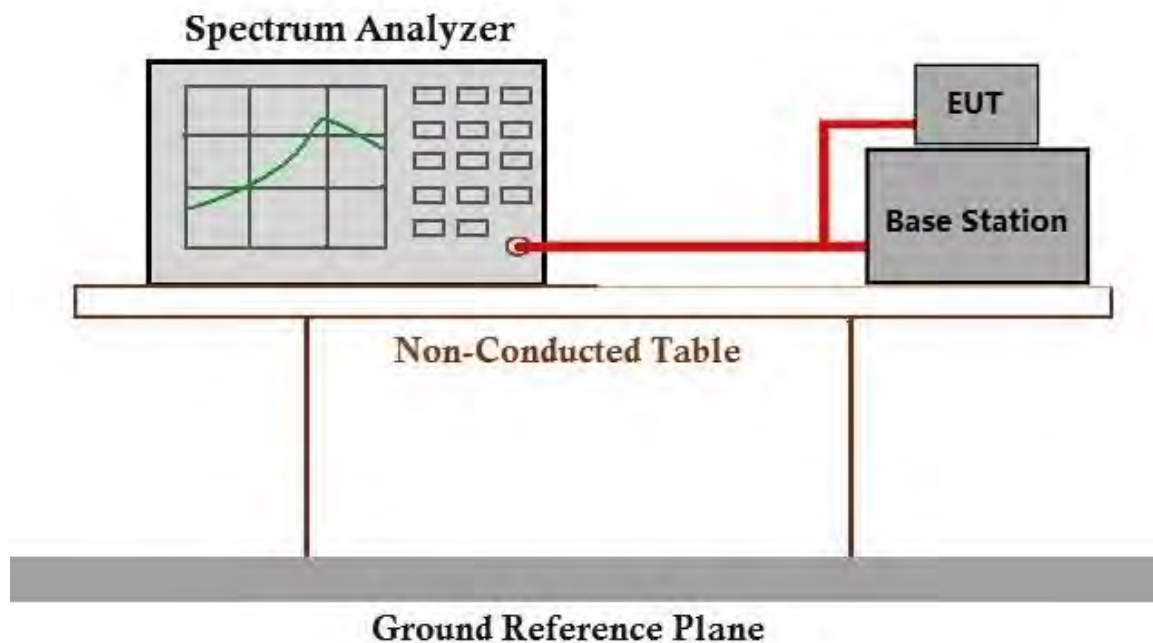
6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238; §27.53(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}$

6.5.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.53(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: $\leq -13\text{dBm}$

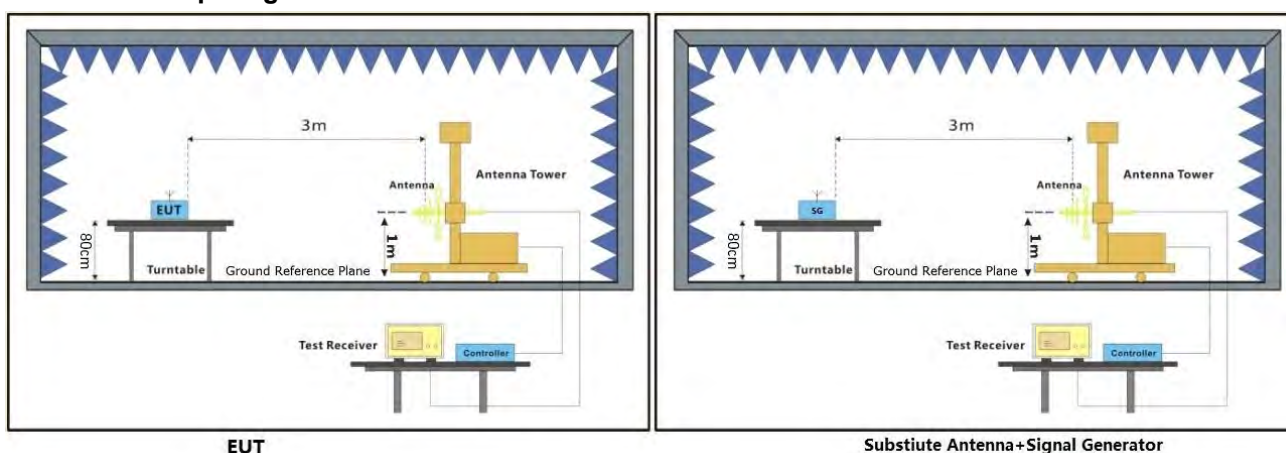
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram



EUT

Substitute Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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WCDMA BAND II-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3704.800	-57.53	-13	-44.53	Horizontal
5557.200	-58.18	-13	-45.18	Horizontal
7409.600	-52.37	-13	-39.37	Horizontal
3704.800	-59.97	-13	-46.97	Vertical
5557.200	-59.55	-13	-46.55	Vertical
7409.600	-54.81	-13	-41.81	Vertical

WCDMA BAND II-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-56.96	-13	-43.96	Horizontal
5640.000	-60.22	-13	-47.22	Horizontal
7520.000	-56.63	-13	-43.63	Horizontal
3760.000	-54.26	-13	-41.26	Vertical
5640.000	-61.65	-13	-48.65	Vertical
7520.000	-58.46	-13	-45.46	Vertical

WCDMA BAND II-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3815.200	-58.91	-13	-45.91	Horizontal
5722.800	-59.29	-13	-46.29	Horizontal
7630.400	-55.50	-13	-42.50	Horizontal
3815.200	-56.31	-13	-43.31	Vertical
5722.800	-60.78	-13	-47.78	Vertical
7630.400	-54.97	-13	-41.97	Vertical

WCDMA BAND IV-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-48.73	-13	-35.73	Horizontal
5160.000	-48.04	-13	-35.04	Horizontal



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6880.000	-48.56	-13	-35.56	Horizontal
3440.000	-48.12	-13	-35.12	Vertical
5160.000	-46.63	-13	-33.63	Vertical
6880.000	-48.14	-13	-35.14	Vertical

WCDMA BAND IV-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.200	-47.47	-13	-34.47	Horizontal
5197.800	-54.70	-13	-41.70	Horizontal
6930.400	-48.15	-13	-35.15	Horizontal
3465.200	-44.10	-13	-31.10	Vertical
5197.800	-53.24	-13	-40.24	Vertical
6930.400	-46.52	-13	-33.52	Vertical

WCDMA BAND IV-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-45.98	-13	-32.98	Horizontal
5235.000	-52.77	-13	-39.77	Horizontal
6980.000	-40.43	-13	-27.43	Horizontal
3490.000	-44.20	-13	-31.20	Vertical
5235.000	-52.97	-13	-39.97	Vertical
6980.000	-44.47	-13	-31.47	Vertical



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WCDMA BAND V-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1652.800	-46.53	-13	-33.53	Horizontal
2479.200	-49.87	-13	-36.87	Horizontal
3305.600	-45.17	-13	-32.17	Horizontal
1652.800	-52.27	-13	-39.27	Vertical
2479.200	-47.65	-13	-34.65	Vertical
3305.600	-47.26	-13	-34.26	Vertical

WCDMA BAND V-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1672.800	-38.54	-13	-25.54	Horizontal
2509.200	-53.66	-13	-40.66	Horizontal
3345.600	-45.65	-13	-32.65	Horizontal
1672.800	-44.82	-13	-31.82	Vertical
2509.200	-51.41	-13	-38.41	Vertical
3345.600	-48.18	-13	-35.18	Vertical

WCDMA BAND V-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1692.800	-54.74	-13	-41.74	Horizontal
2539.200	-52.98	-13	-39.98	Horizontal
3385.600	-43.55	-13	-30.55	Horizontal
1692.800	-46.41	-13	-33.41	Vertical
2539.200	-51.48	-13	-38.48	Vertical
3385.600	-40.89	-13	-27.89	Vertical

Remark:

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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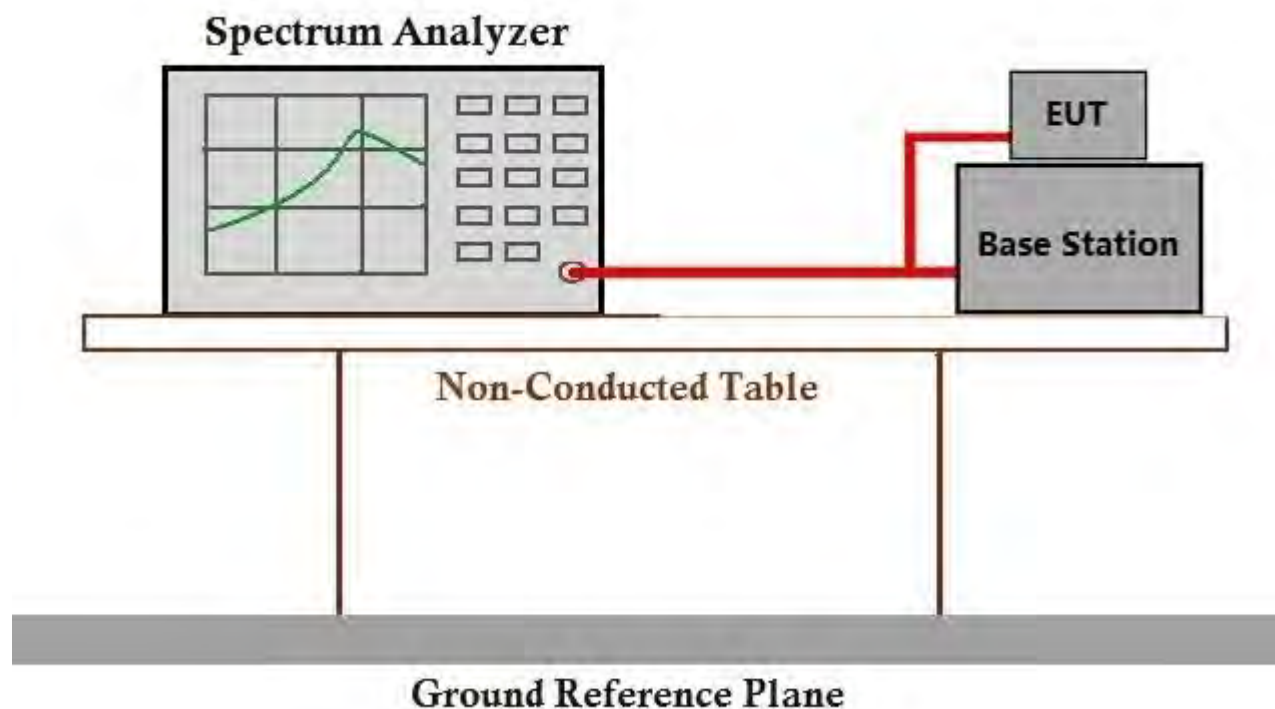
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please Refer to Appendix for Details



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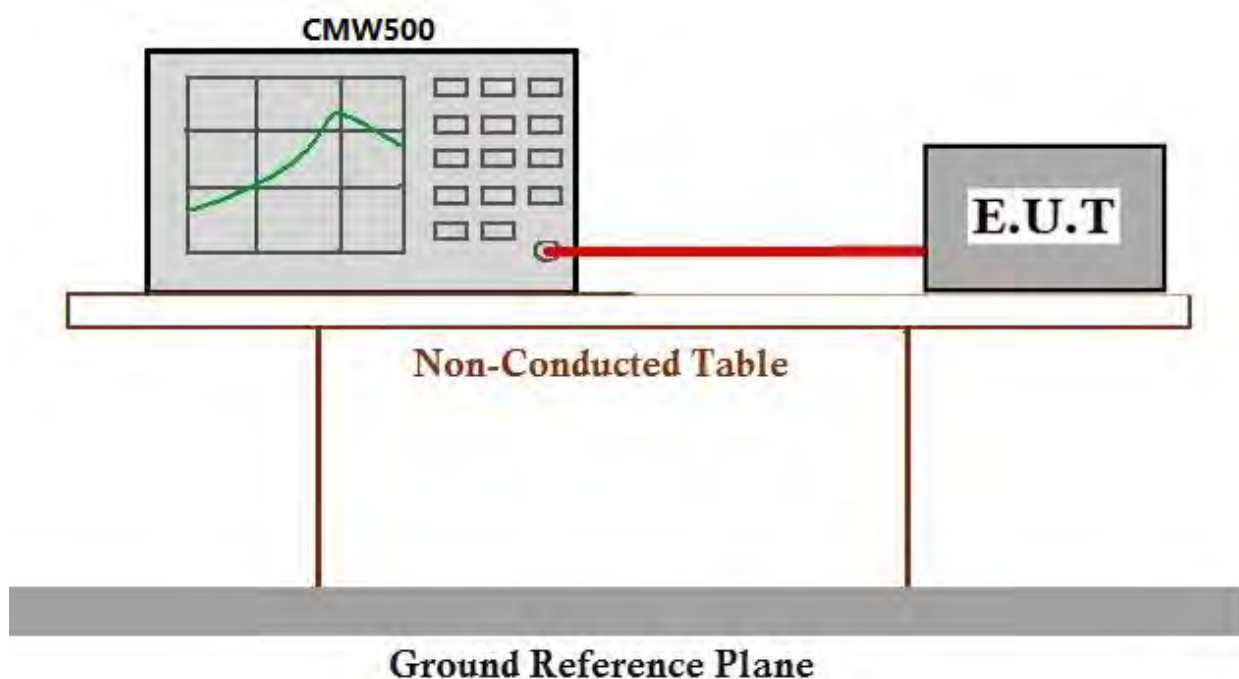
6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please Refer to Appendix for Details



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2208001794CO

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2208001794CO



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9 Appendix

Appendix for WCDMA Band 2

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	22.60	2.30	24.90	<=33.01	Pass
			1880	22.86	2.30	25.16	<=33.01	Pass
			1907.6	22.89	2.30	25.19	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	20.80	2.30	23.10	<=33.01	Pass
		Subtest 2	1852.4	20.84	2.30	23.14	<=33.01	Pass
		Subtest 3	1852.4	20.77	2.30	23.07	<=33.01	Pass
		Subtest 4	1852.4	20.88	2.30	23.18	<=33.01	Pass
		Subtest 1	1880	21.10	2.30	23.40	<=33.01	Pass
		Subtest 2	1880	21.00	2.30	23.30	<=33.01	Pass
		Subtest 3	1880	20.93	2.30	23.23	<=33.01	Pass
		Subtest 4	1880	21.00	2.30	23.30	<=33.01	Pass
		Subtest 1	1907.6	21.04	2.30	23.34	<=33.01	Pass
		Subtest 2	1907.6	21.02	2.30	23.32	<=33.01	Pass
		Subtest 3	1907.6	20.96	2.30	23.26	<=33.01	Pass
		Subtest 4	1907.6	21.03	2.30	23.33	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	19.96	2.30	22.26	<=33.01	Pass
		Subtest 2	1852.4	20.00	2.30	22.30	<=33.01	Pass
		Subtest 3	1852.4	20.18	2.30	22.48	<=33.01	Pass
		Subtest 4	1852.4	19.98	2.30	22.28	<=33.01	Pass
		Subtest 5	1852.4	20.01	2.30	22.31	<=33.01	Pass
		Subtest 1	1880	20.10	2.30	22.40	<=33.01	Pass
		Subtest 2	1880	18.75	2.30	21.05	<=33.01	Pass
		Subtest 3	1880	20.22	2.30	22.52	<=33.01	Pass
		Subtest 4	1880	19.13	2.30	21.43	<=33.01	Pass
		Subtest 5	1880	20.21	2.30	22.51	<=33.01	Pass
		Subtest 1	1907.6	20.10	2.30	22.40	<=33.01	Pass



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		Subtest 2	1907.6	20.30	2.30	22.60	<=33.01	Pass
		Subtest 3	1907.6	20.40	2.30	22.70	<=33.01	Pass
		Subtest 4	1907.6	19.14	2.30	21.44	<=33.01	Pass
		Subtest 5	1907.6	20.21	2.30	22.51	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Band2

2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	6.12	-0.468	-0.0003	-2.5 to 2.5	Pass
			7.20	-0.942	-0.0005	-2.5 to 2.5	Pass
			8.28	-0.888	-0.0005	-2.5 to 2.5	Pass
		-30	7.20	-1.122	-0.0006	-2.5 to 2.5	Pass
		-20	7.20	-1.145	-0.0006	-2.5 to 2.5	Pass
		-10	7.20	-1.349	-0.0007	-2.5 to 2.5	Pass
		0	7.20	-1.573	-0.0008	-2.5 to 2.5	Pass
		10	7.20	-1.324	-0.0007	-2.5 to 2.5	Pass
		30	7.20	-1.343	-0.0007	-2.5 to 2.5	Pass
		40	7.20	-1.009	-0.0005	-2.5 to 2.5	Pass
		50	7.20	-1.069	-0.0006	-2.5 to 2.5	Pass
	1880	20	6.12	-1.456	-0.0008	-2.5 to 2.5	Pass
			7.20	-0.940	-0.0005	-2.5 to 2.5	Pass
			8.28	-0.924	-0.0005	-2.5 to 2.5	Pass
		-30	7.20	-1.047	-0.0006	-2.5 to 2.5	Pass
		-20	7.20	-0.828	-0.0004	-2.5 to 2.5	Pass
		-10	7.20	-0.843	-0.0004	-2.5 to 2.5	Pass
		0	7.20	-0.506	-0.0003	-2.5 to 2.5	Pass
		10	7.20	-0.818	-0.0004	-2.5 to 2.5	Pass
		30	7.20	-0.725	-0.0004	-2.5 to 2.5	Pass
		40	7.20	-0.715	-0.0004	-2.5 to 2.5	Pass
		50	7.20	-1.111	-0.0006	-2.5 to 2.5	Pass
	1907.6	20	6.12	-0.975	-0.0005	-2.5 to 2.5	Pass
			7.20	-1.766	-0.0009	-2.5 to 2.5	Pass
			8.28	-1.178	-0.0006	-2.5 to 2.5	Pass



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		-30	7.20	-1.132	-0.0006	-2.5 to 2.5	Pass
		-20	7.20	-1.414	-0.0007	-2.5 to 2.5	Pass
		-10	7.20	-1.215	-0.0006	-2.5 to 2.5	Pass
		0	7.20	-1.769	-0.0009	-2.5 to 2.5	Pass
		10	7.20	-2.163	-0.0011	-2.5 to 2.5	Pass
		30	7.20	-1.993	-0.0010	-2.5 to 2.5	Pass
		40	7.20	-1.262	-0.0007	-2.5 to 2.5	Pass
		50	7.20	-1.818	-0.0010	-2.5 to 2.5	Pass
HSDPA	1852.4	20	6.12	0.763	0.0004	-2.5 to 2.5	Pass
			7.20	1.889	0.0010	-2.5 to 2.5	Pass
			8.28	0.735	0.0004	-2.5 to 2.5	Pass
		-30	7.20	0.701	0.0004	-2.5 to 2.5	Pass
		-20	7.20	0.117	0.0001	-2.5 to 2.5	Pass
		-10	7.20	1.577	0.0009	-2.5 to 2.5	Pass
		0	7.20	1.369	0.0007	-2.5 to 2.5	Pass
		10	7.20	1.893	0.0010	-2.5 to 2.5	Pass
		30	7.20	1.799	0.0010	-2.5 to 2.5	Pass
		40	7.20	1.289	0.0007	-2.5 to 2.5	Pass
		50	7.20	1.199	0.0006	-2.5 to 2.5	Pass
	1880	20	6.12	0.816	0.0004	-2.5 to 2.5	Pass
			7.20	1.756	0.0009	-2.5 to 2.5	Pass
			8.28	1.578	0.0008	-2.5 to 2.5	Pass
		-30	7.20	2.381	0.0013	-2.5 to 2.5	Pass
		-20	7.20	1.706	0.0009	-2.5 to 2.5	Pass
		-10	7.20	2.061	0.0011	-2.5 to 2.5	Pass
		0	7.20	2.304	0.0012	-2.5 to 2.5	Pass
		10	7.20	1.527	0.0008	-2.5 to 2.5	Pass
		30	7.20	2.014	0.0011	-2.5 to 2.5	Pass
		40	7.20	2.238	0.0012	-2.5 to 2.5	Pass
		50	7.20	2.276	0.0012	-2.5 to 2.5	Pass
	1907.6	20	6.12	0.253	0.0001	-2.5 to 2.5	Pass
			7.20	1.297	0.0007	-2.5 to 2.5	Pass
			8.28	0.954	0.0005	-2.5 to 2.5	Pass
		-30	7.20	0.666	0.0003	-2.5 to 2.5	Pass
		-20	7.20	0.730	0.0004	-2.5 to 2.5	Pass
		-10	7.20	1.027	0.0005	-2.5 to 2.5	Pass
		0	7.20	1.282	0.0007	-2.5 to 2.5	Pass
		10	7.20	0.832	0.0004	-2.5 to 2.5	Pass
		30	7.20	0.427	0.0002	-2.5 to 2.5	Pass



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		40	7.20	1.307	0.0007	-2.5 to 2.5	Pass
		50	7.20	0.711	0.0004	-2.5 to 2.5	Pass
HSUPA	1852.4	20	6.12	1.506	0.0008	-2.5 to 2.5	Pass
			7.20	1.688	0.0009	-2.5 to 2.5	Pass
			8.28	0.755	0.0004	-2.5 to 2.5	Pass
		-30	7.20	1.656	0.0009	-2.5 to 2.5	Pass
		-20	7.20	1.968	0.0011	-2.5 to 2.5	Pass
		-10	7.20	1.696	0.0009	-2.5 to 2.5	Pass
		0	7.20	2.466	0.0013	-2.5 to 2.5	Pass
		10	7.20	2.152	0.0012	-2.5 to 2.5	Pass
		30	7.20	0.357	0.0002	-2.5 to 2.5	Pass
		40	7.20	1.948	0.0011	-2.5 to 2.5	Pass
		50	7.20	2.167	0.0012	-2.5 to 2.5	Pass
	1880	20	6.12	-0.325	-0.0002	-2.5 to 2.5	Pass
			7.20	-0.464	-0.0002	-2.5 to 2.5	Pass
			8.28	-0.395	-0.0002	-2.5 to 2.5	Pass
		-30	7.20	-0.230	-0.0001	-2.5 to 2.5	Pass
		-20	7.20	0.314	0.0002	-2.5 to 2.5	Pass
		-10	7.20	-0.698	-0.0004	-2.5 to 2.5	Pass
		0	7.20	0.792	0.0004	-2.5 to 2.5	Pass
		10	7.20	0.150	0.0001	-2.5 to 2.5	Pass
		30	7.20	-0.183	-0.0001	-2.5 to 2.5	Pass
		40	7.20	-0.483	-0.0003	-2.5 to 2.5	Pass
		50	7.20	-0.819	-0.0004	-2.5 to 2.5	Pass
	1907.6	20	6.12	-1.059	-0.0006	-2.5 to 2.5	Pass
			7.20	-0.562	-0.0003	-2.5 to 2.5	Pass
			8.28	-1.026	-0.0005	-2.5 to 2.5	Pass
		-30	7.20	-0.741	-0.0004	-2.5 to 2.5	Pass
		-20	7.20	-0.402	-0.0002	-2.5 to 2.5	Pass
		-10	7.20	-0.776	-0.0004	-2.5 to 2.5	Pass
		0	7.20	-1.158	-0.0006	-2.5 to 2.5	Pass
		10	7.20	-0.948	-0.0005	-2.5 to 2.5	Pass
		30	7.20	-1.002	-0.0005	-2.5 to 2.5	Pass
		40	7.20	-1.109	-0.0006	-2.5 to 2.5	Pass
		50	7.20	-1.591	-0.0008	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band2



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3.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	Modulation Characteristics	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph	Pass



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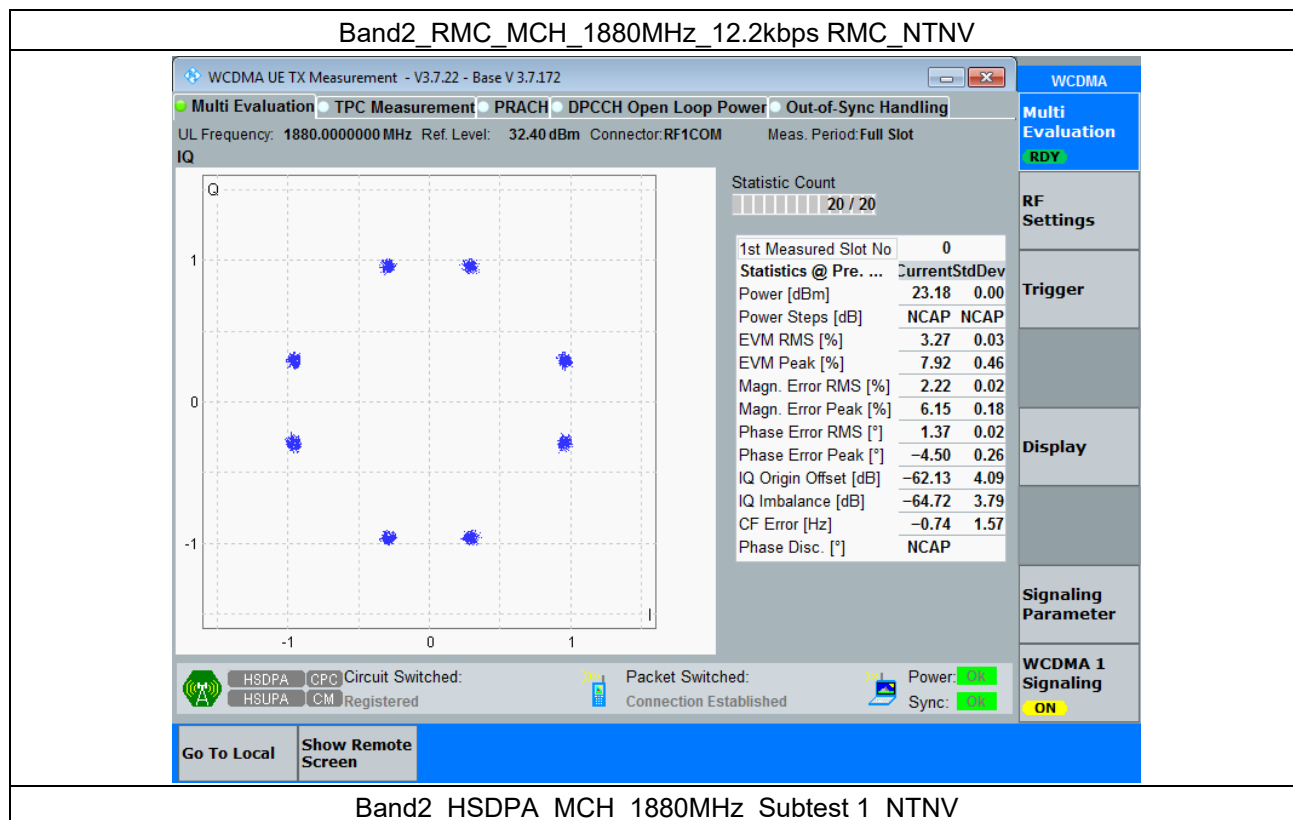
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3.1.2 Test Graph



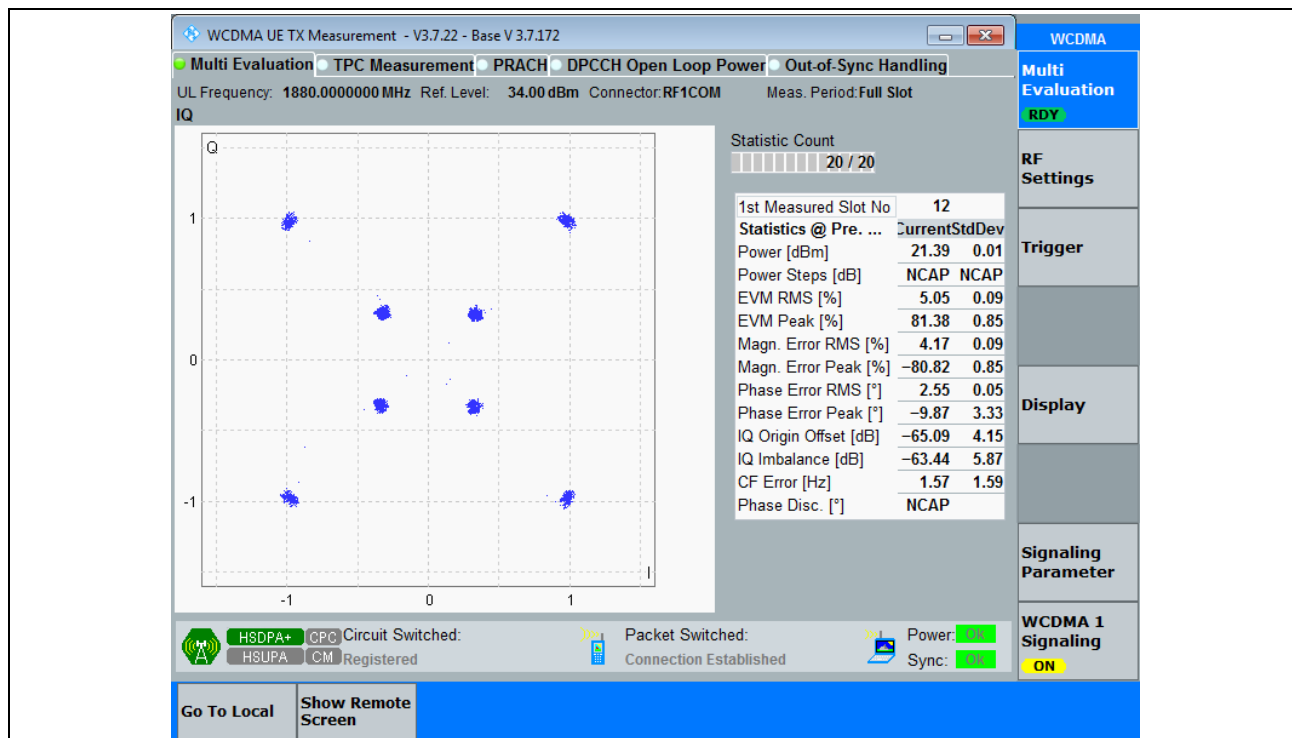
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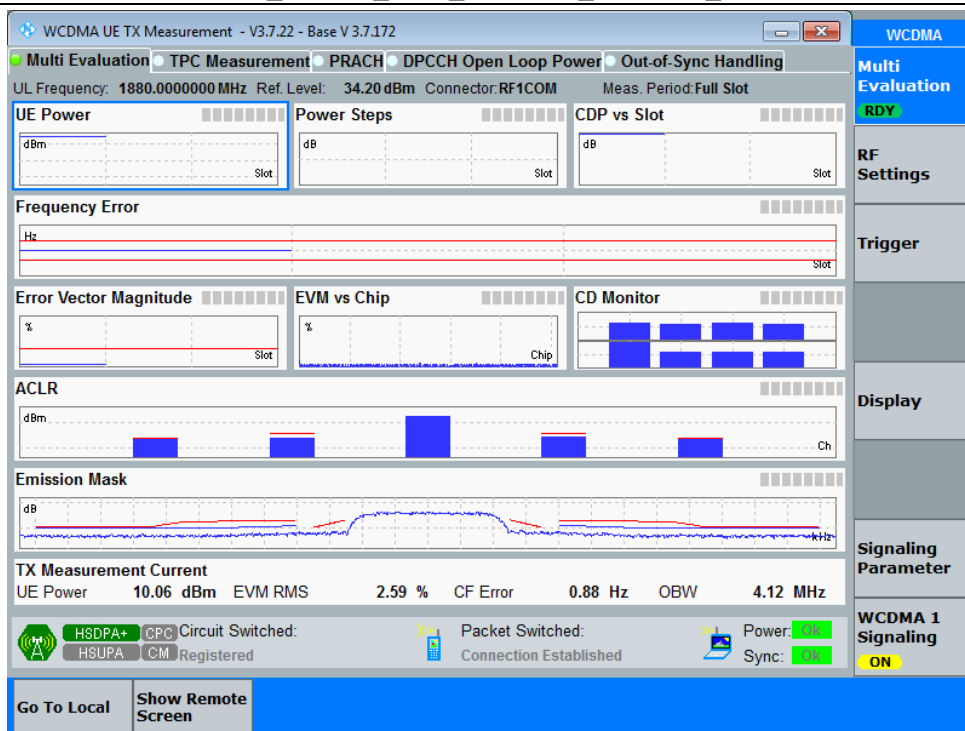
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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4. 99% & 26dB Bandwidth

4.1 Band2_OBW

4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.131	Pass
			1880	4.128	Pass
			1907.6	4.136	Pass
	HSDPA	Subtest 1	1852.4	4.195	Pass
			1880	4.132	Pass
			1907.6	4.149	Pass
	HSUPA	Subtest 1	1852.4	4.190	Pass
			1880	4.141	Pass
			1907.6	4.142	Pass



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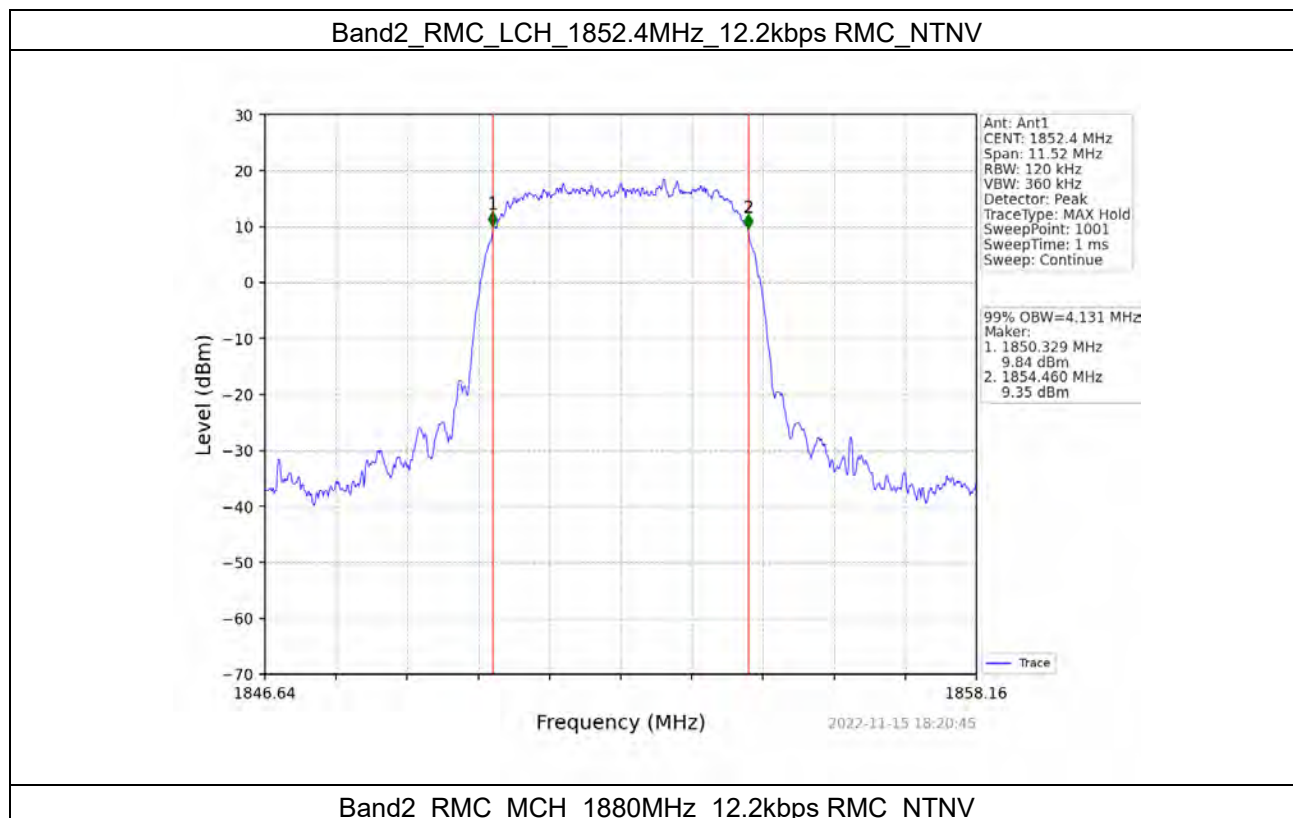
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4.1.2 Test Graph



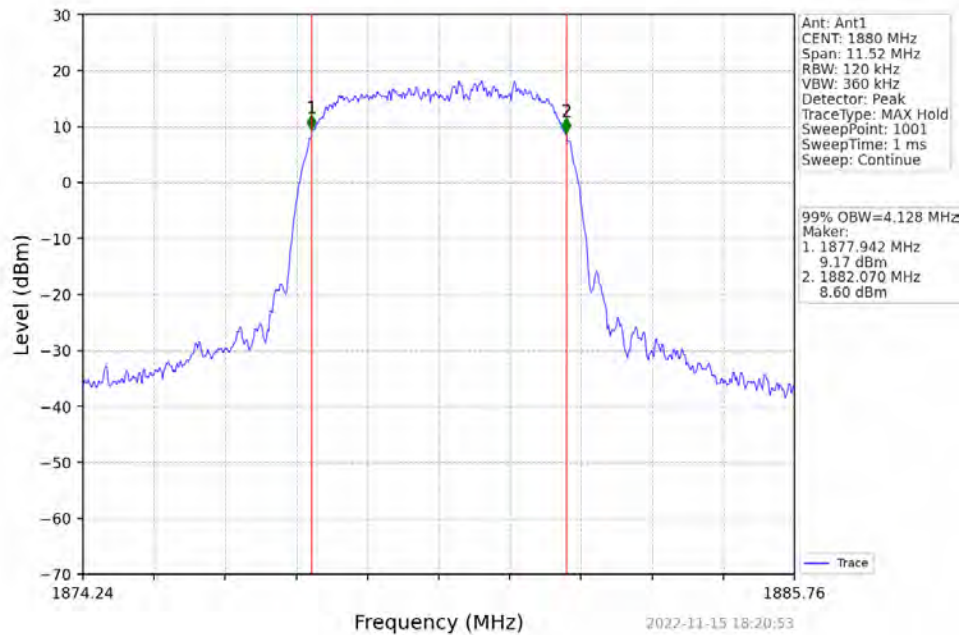
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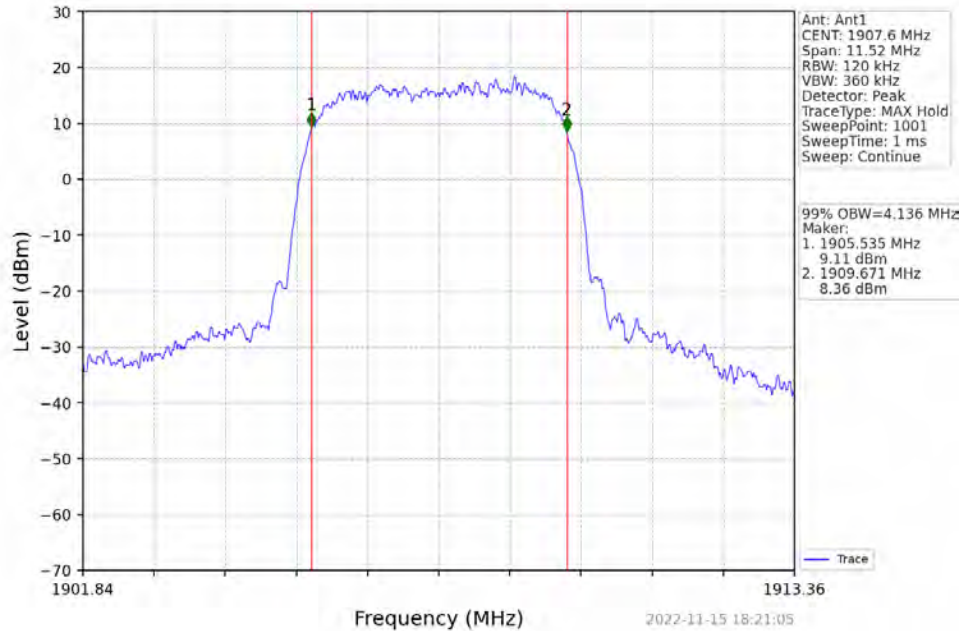
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



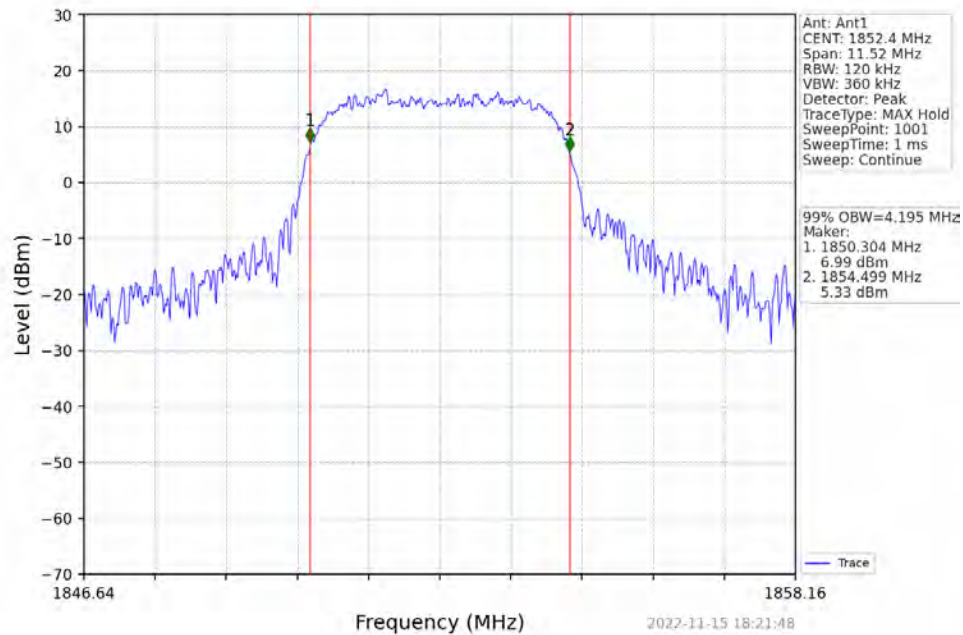
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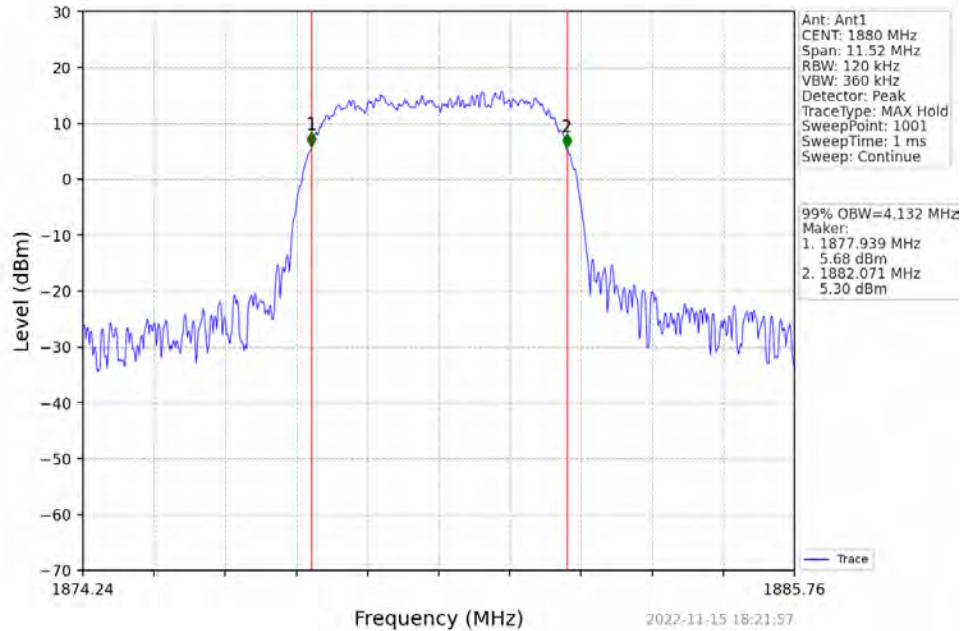
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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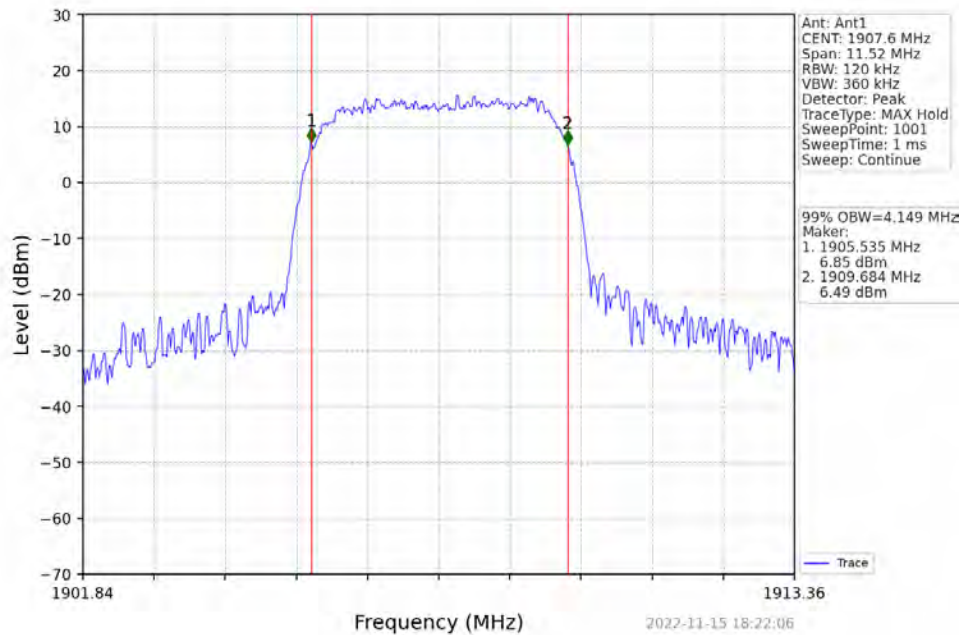
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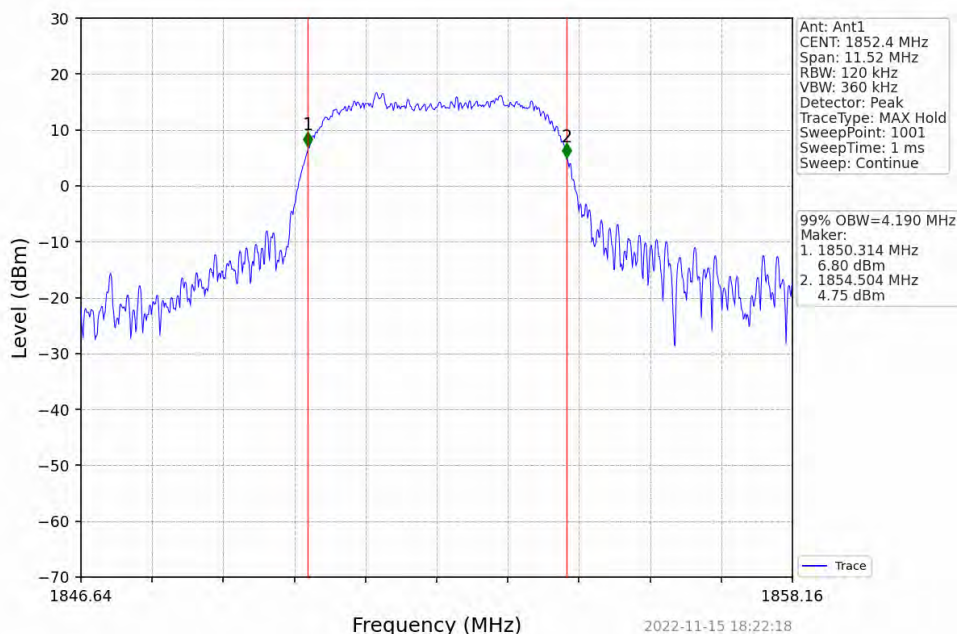
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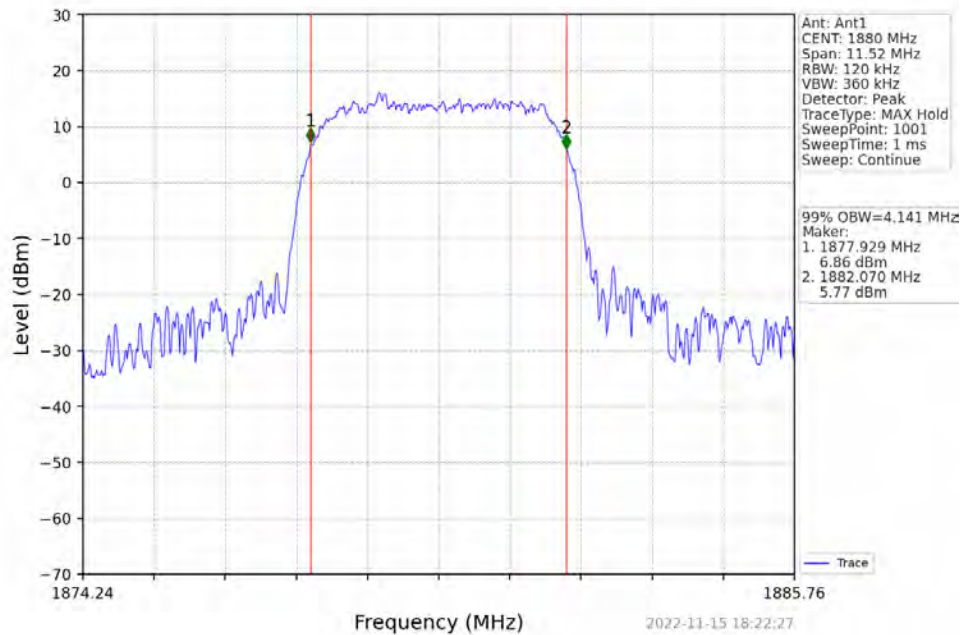
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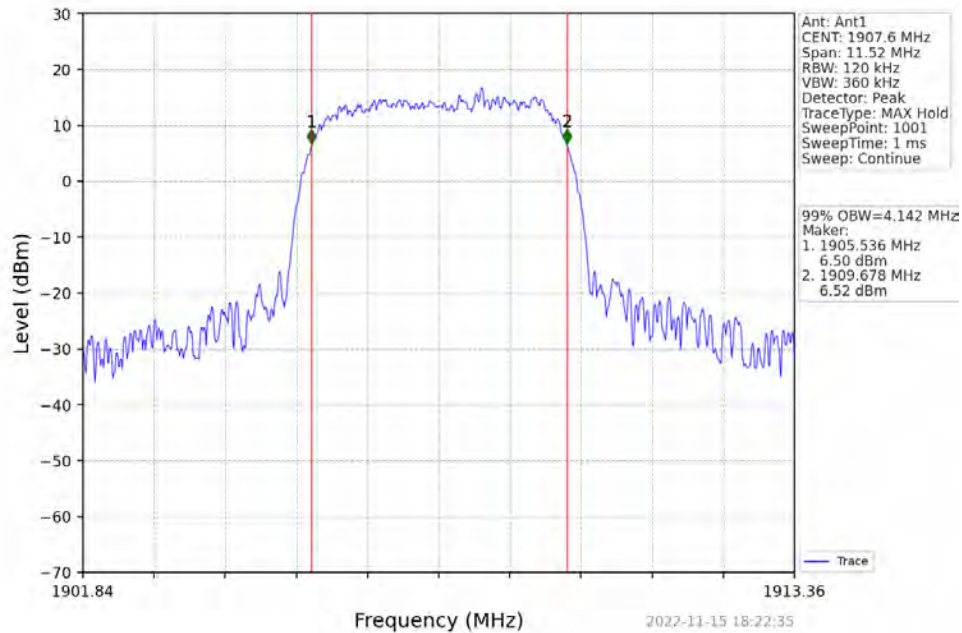
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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4.2 Band2_XDB

4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.723	Pass
			1880	4.714	Pass
			1907.6	4.707	Pass
	HSDPA	Subtest 1	1852.4	5.733	Pass
			1880	4.750	Pass
			1907.6	4.744	Pass
	HSUPA	Subtest 1	1852.4	6.068	Pass
			1880	4.728	Pass
			1907.6	4.726	Pass



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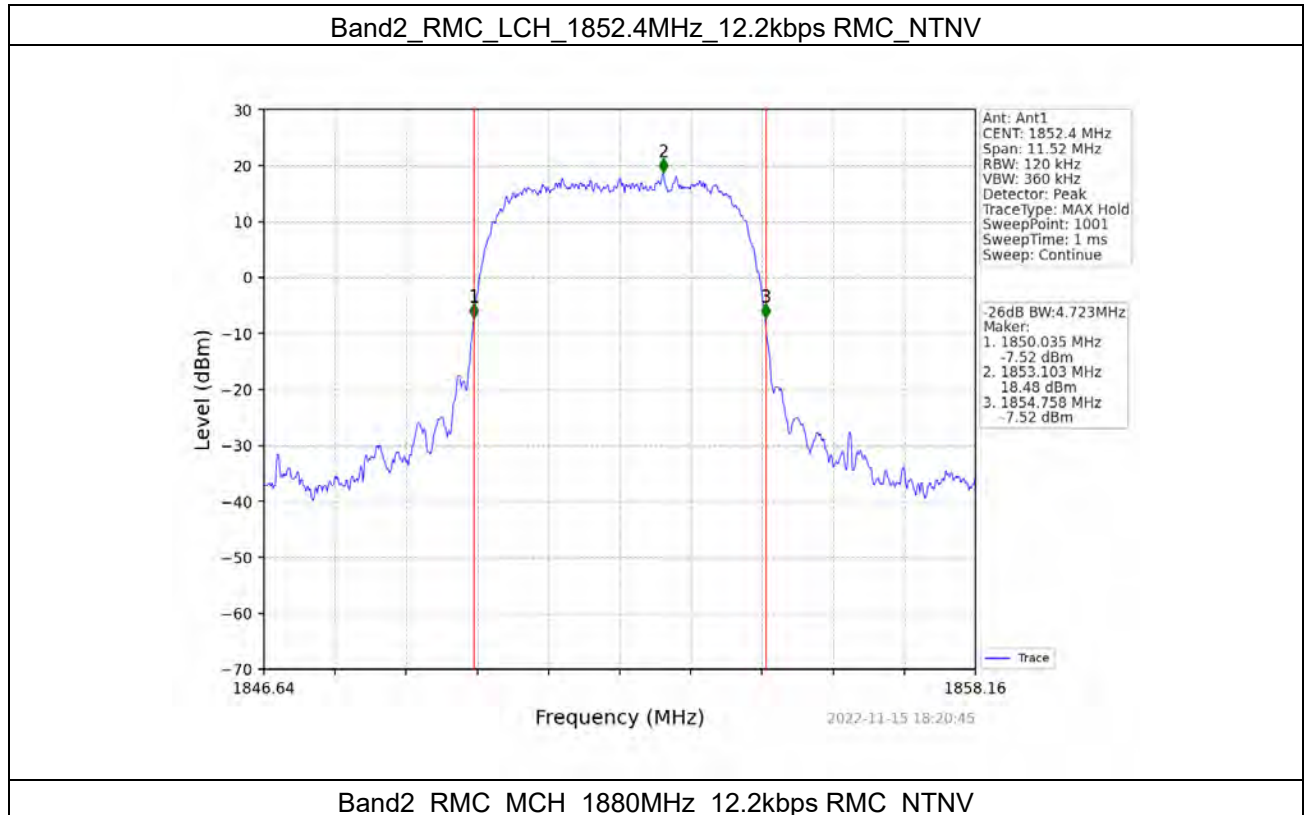
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4.2.2 Test Graph



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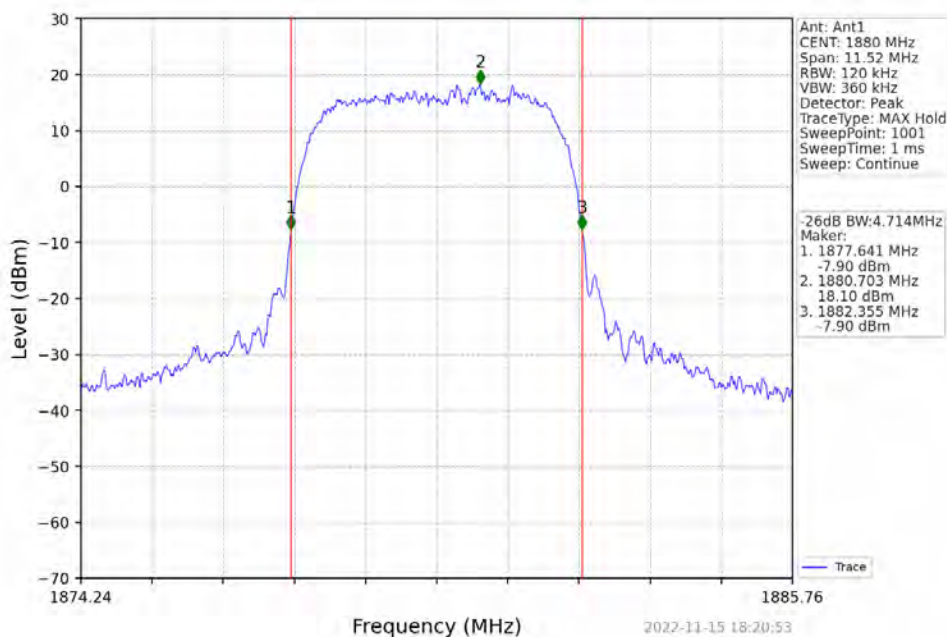
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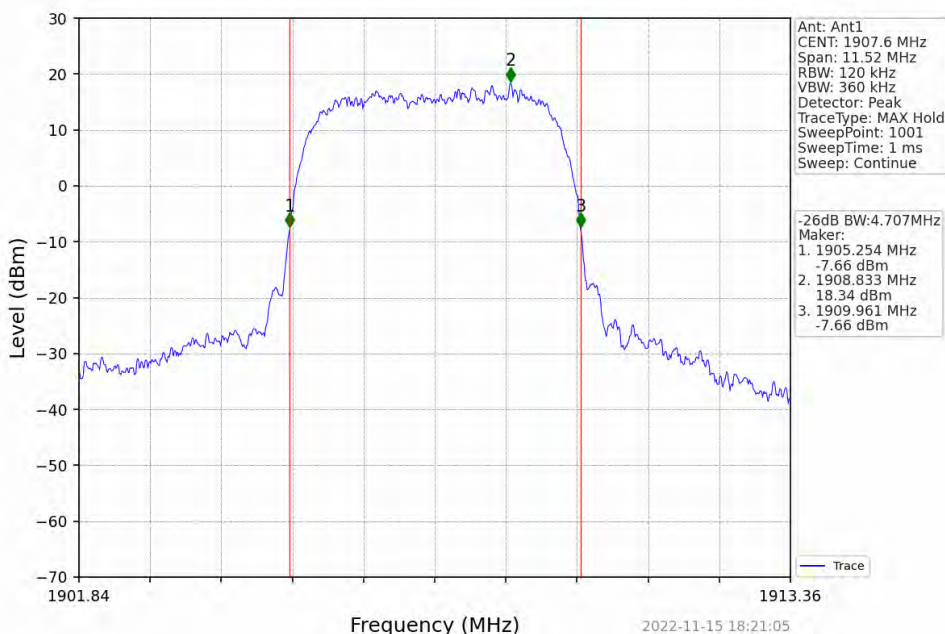
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



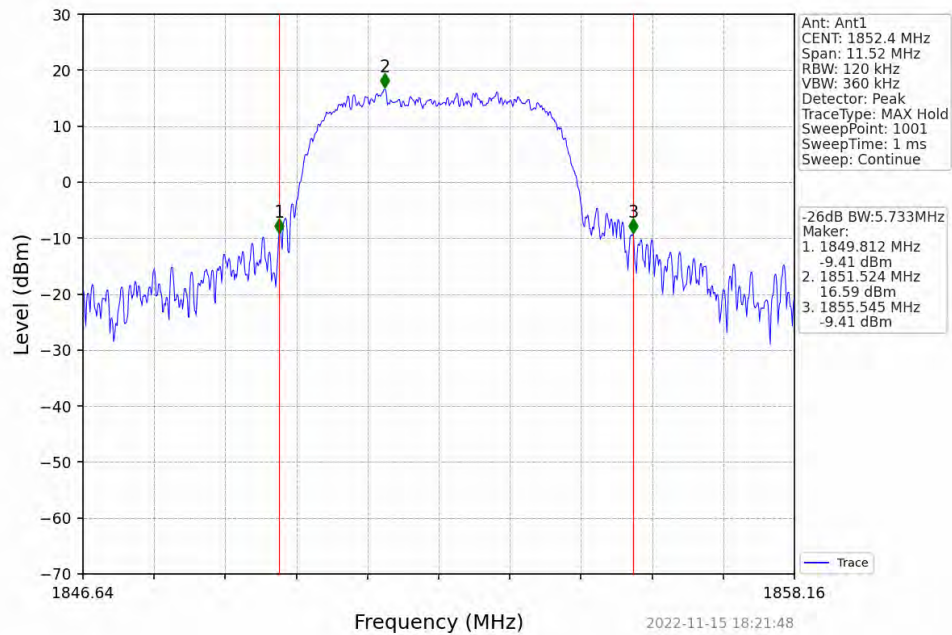
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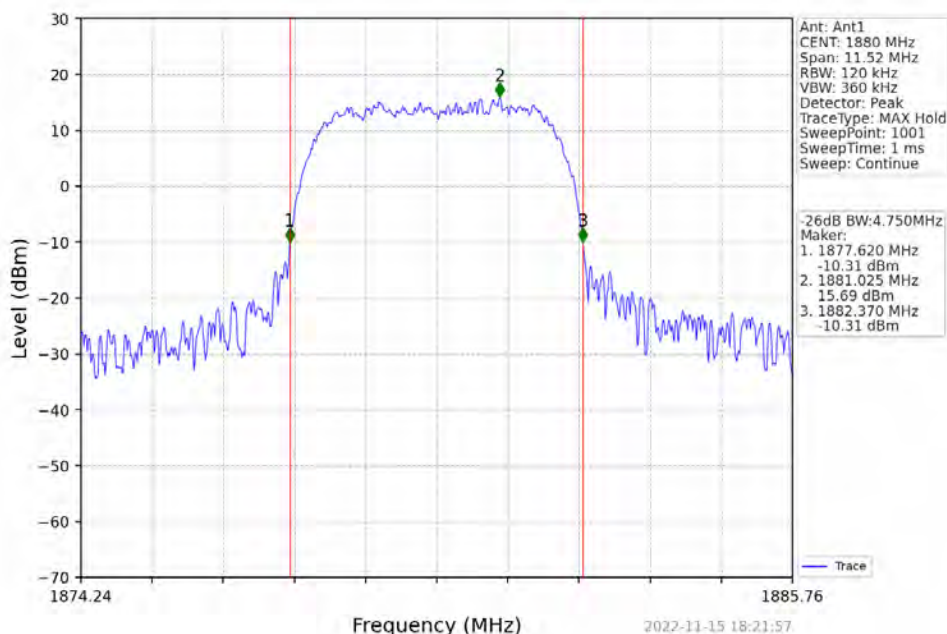
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



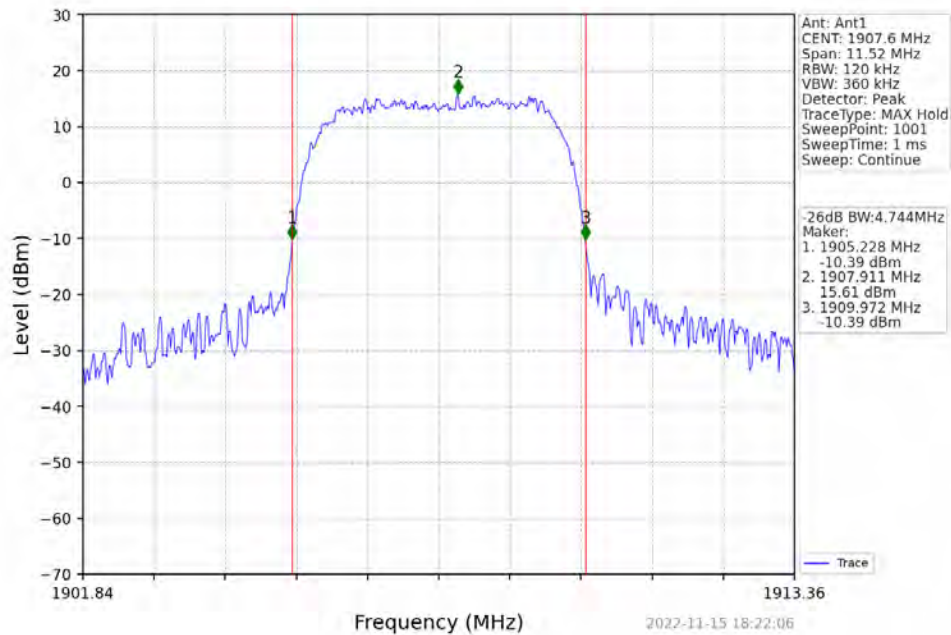
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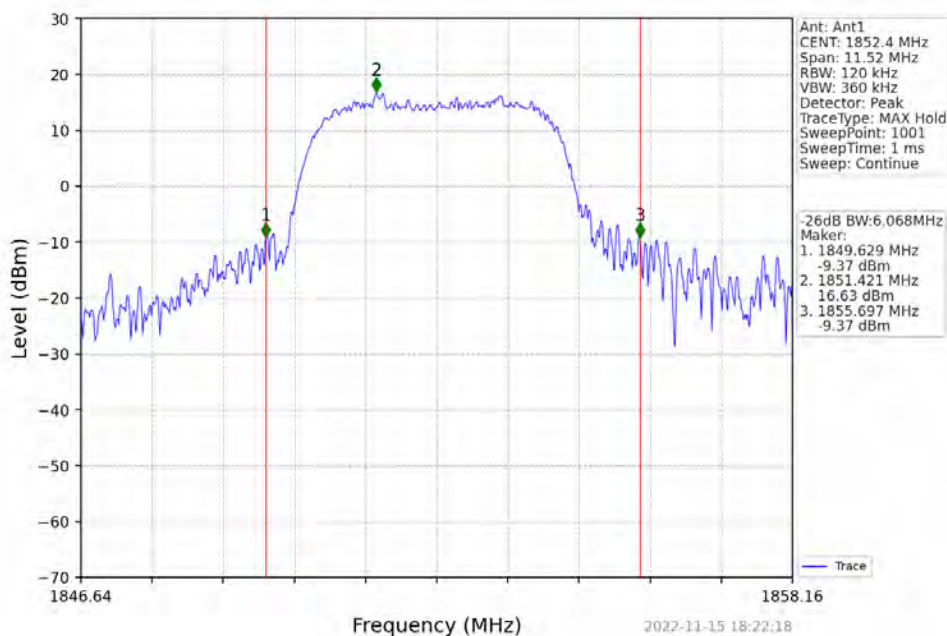
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



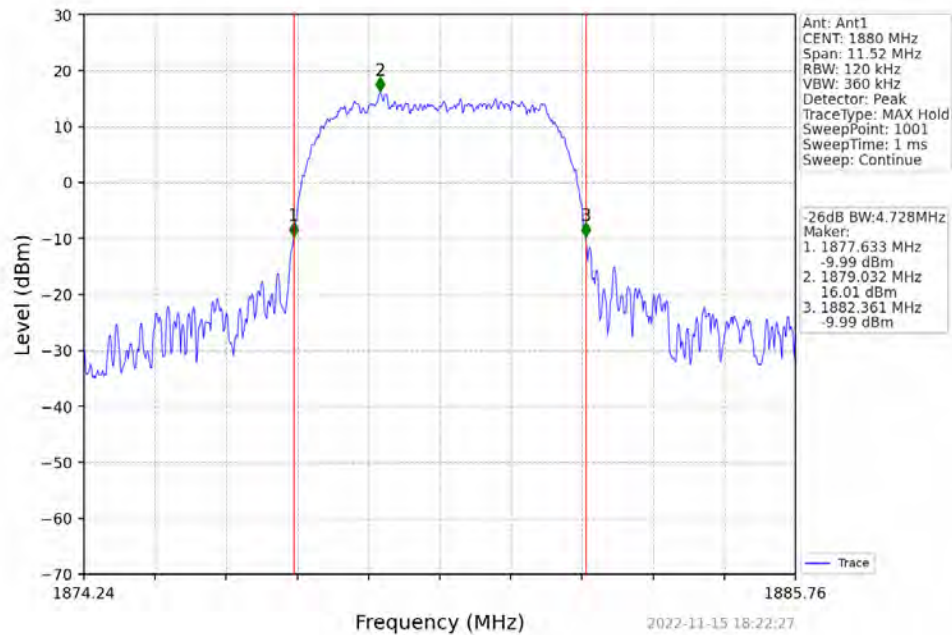
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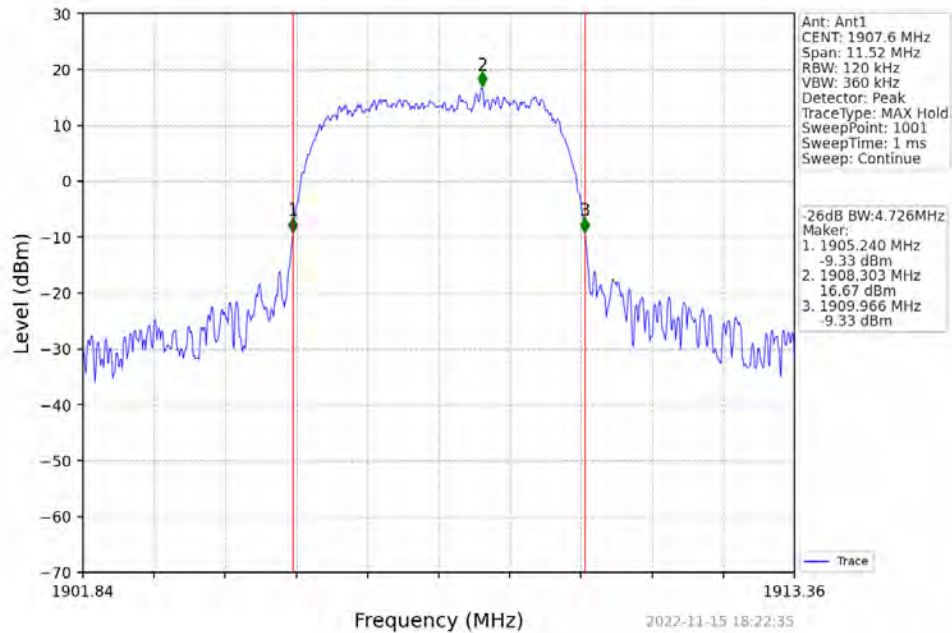
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5. Peak-Average Ratio

5.1 Band2

5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.08	<=13	Pass
			1880	3.17	<=13	Pass
			1907.6	3.15	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.62	<=13	Pass
			1880	5.77	<=13	Pass
			1907.6	5.89	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.61	<=13	Pass
			1880	5.75	<=13	Pass
			1907.6	5.87	<=13	Pass



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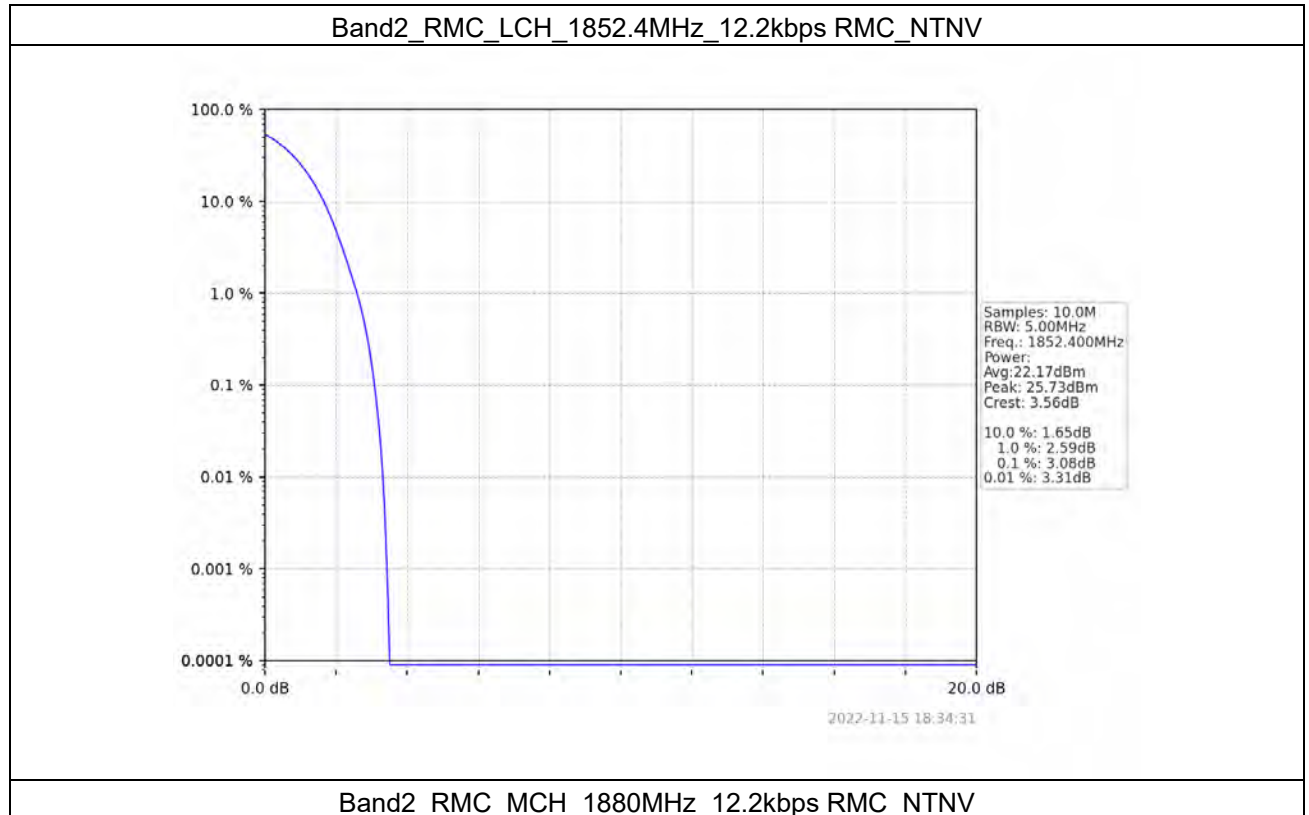
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5.1.2 Test Graph



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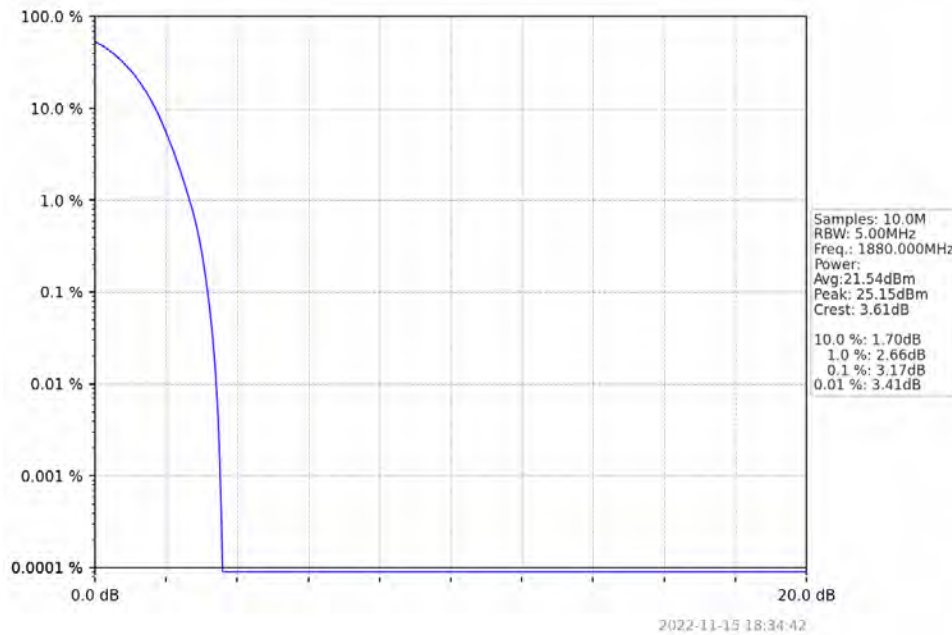
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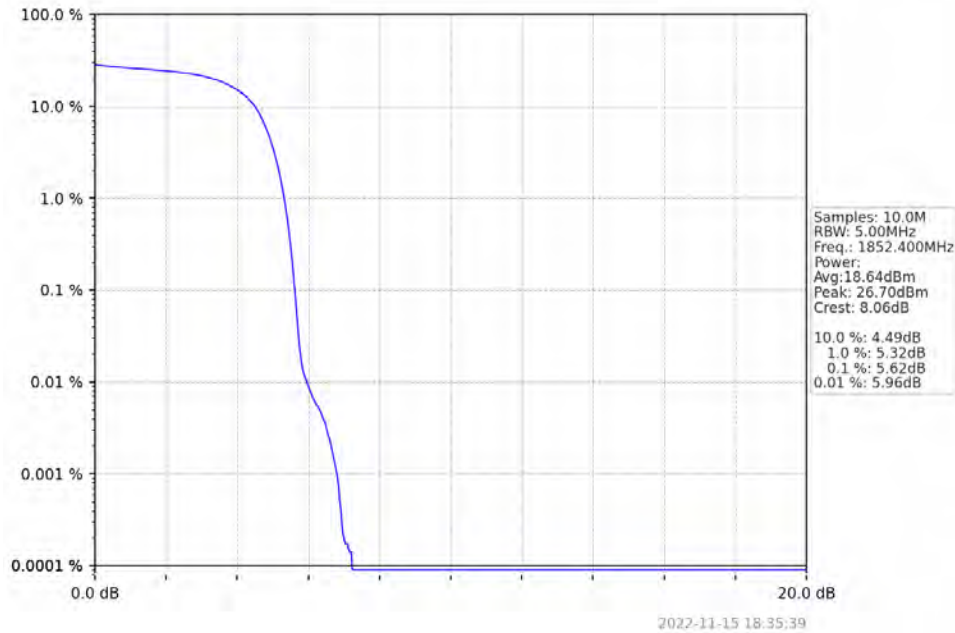
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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV





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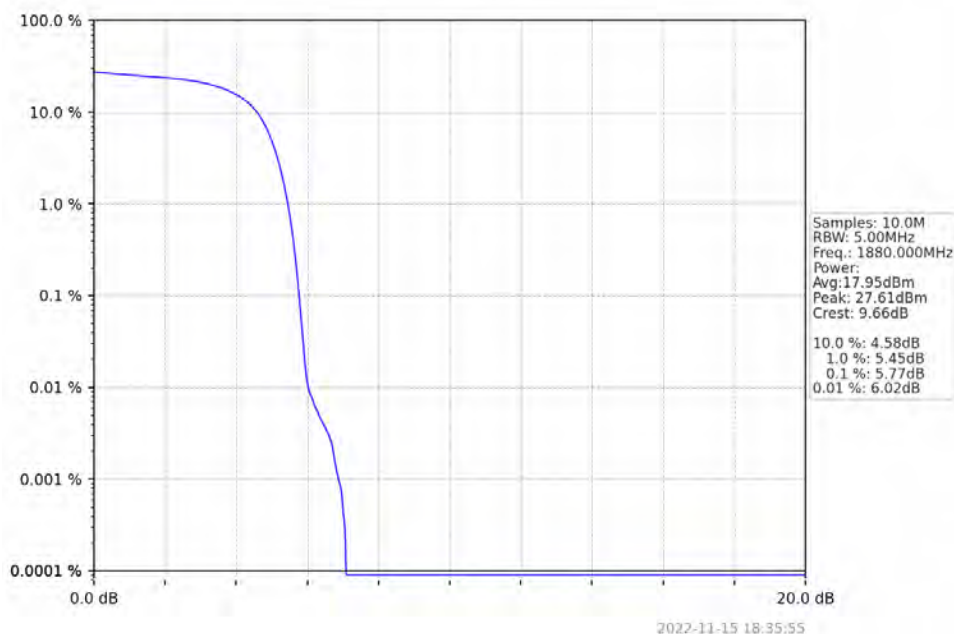
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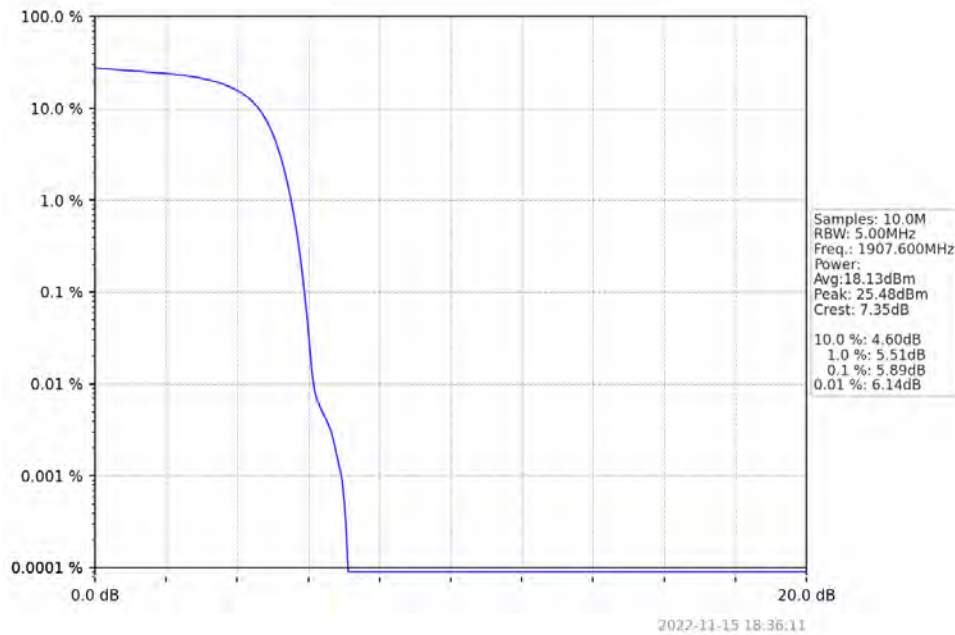
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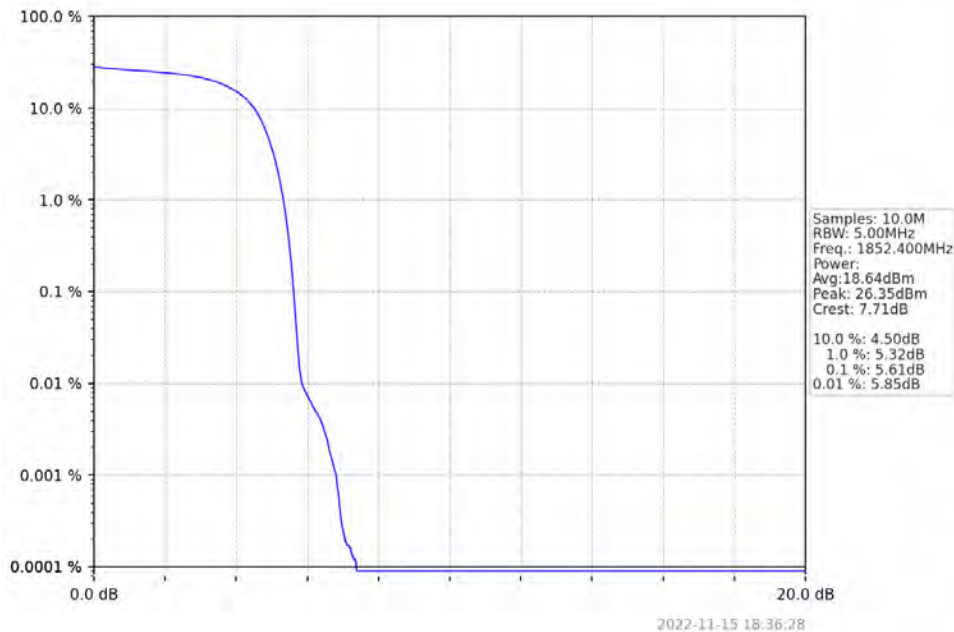
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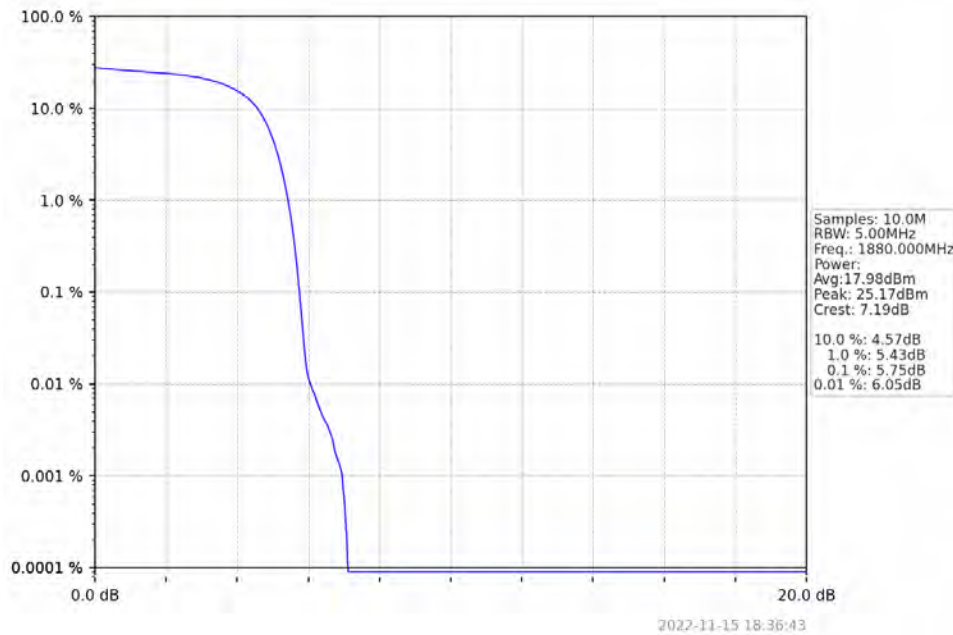


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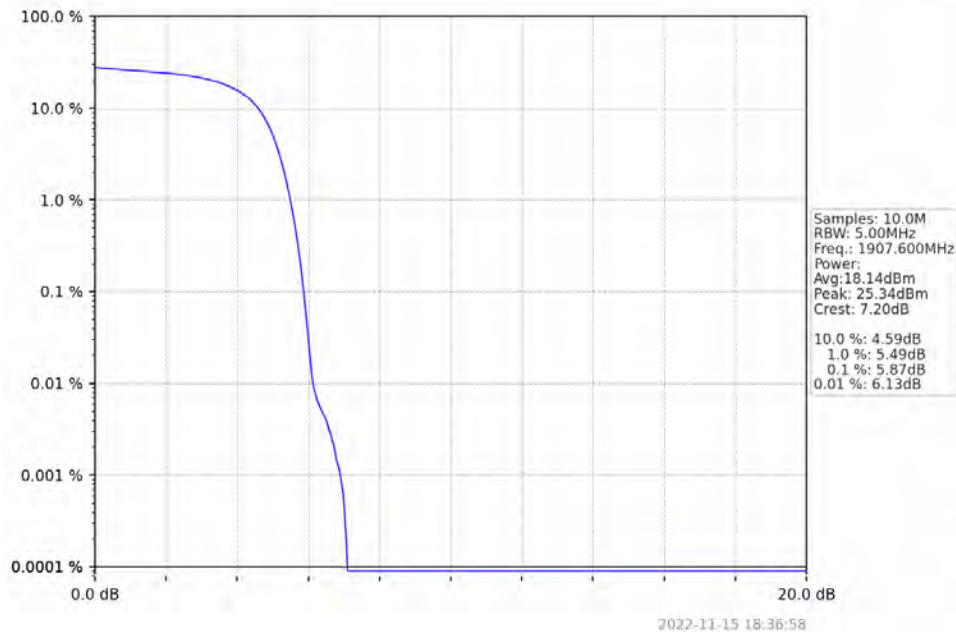


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6. Spurious Emission

6.1 Band2

6.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1907.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1907.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1852.4	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1907.6	Refer To Test Graph	Pass



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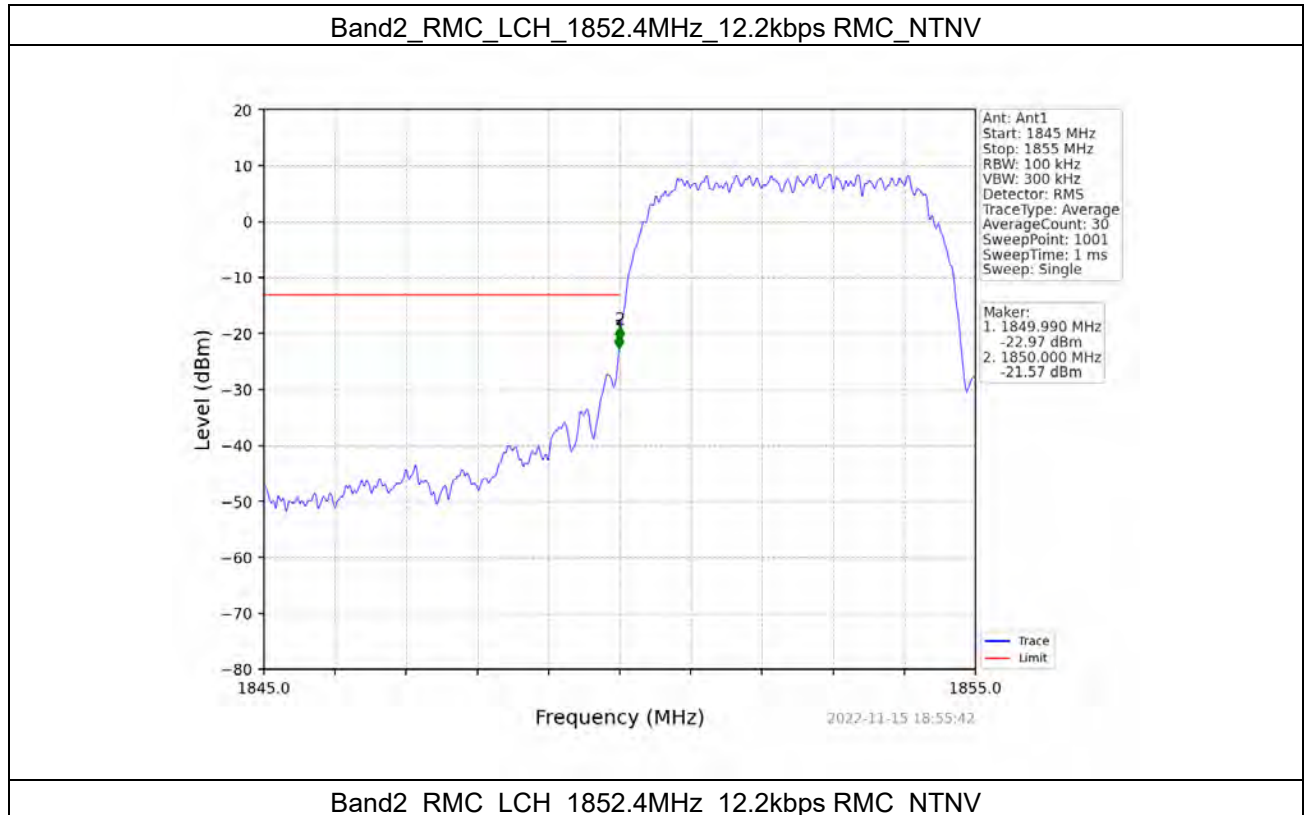
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6.1.2 Test Graph



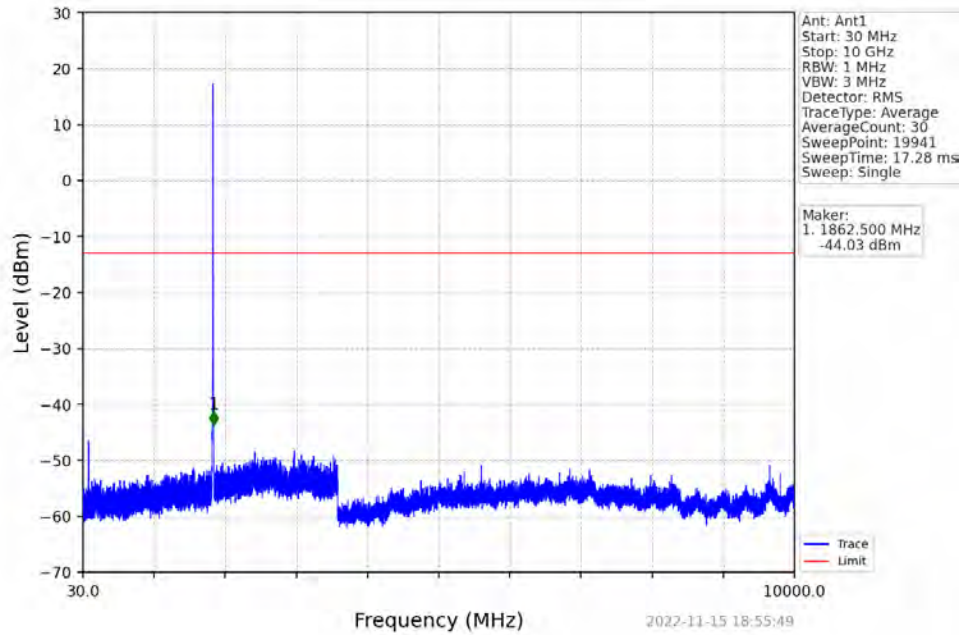
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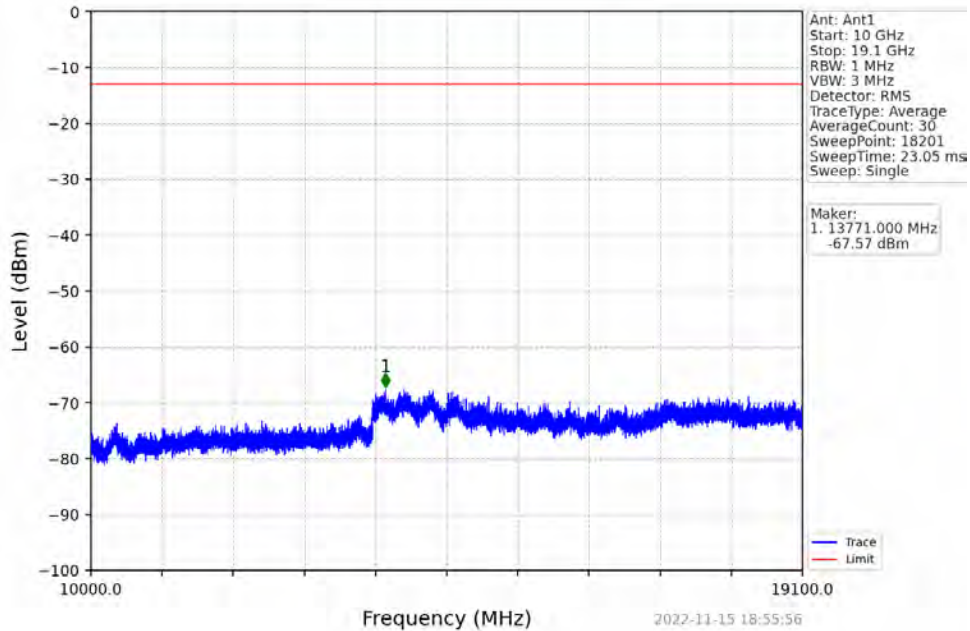
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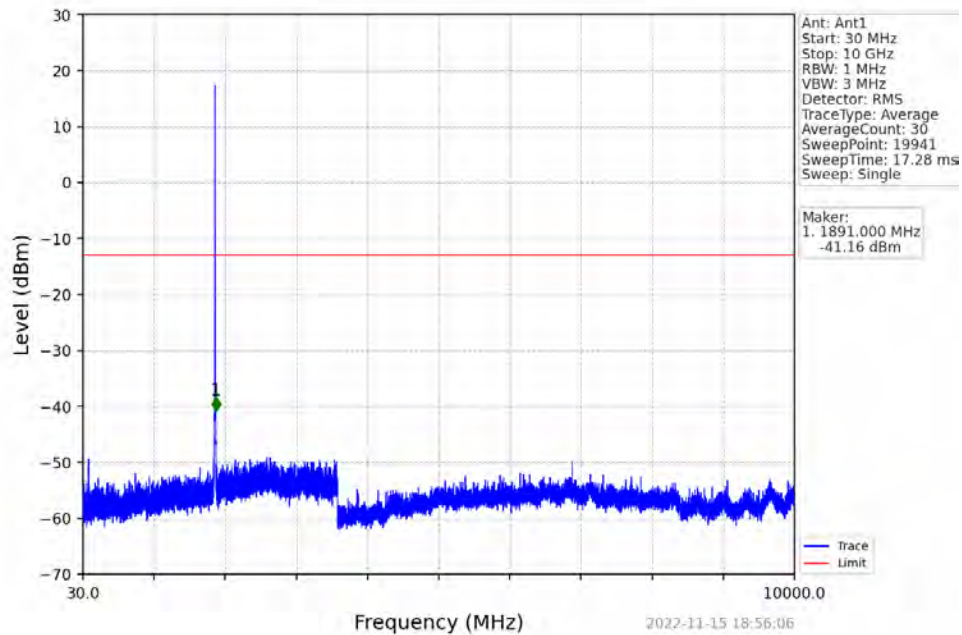
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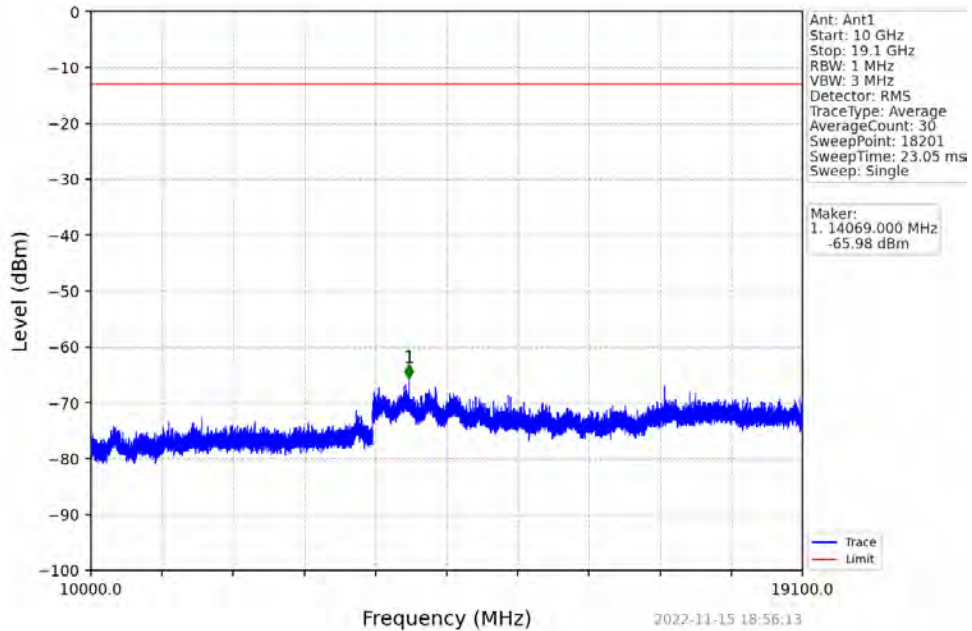
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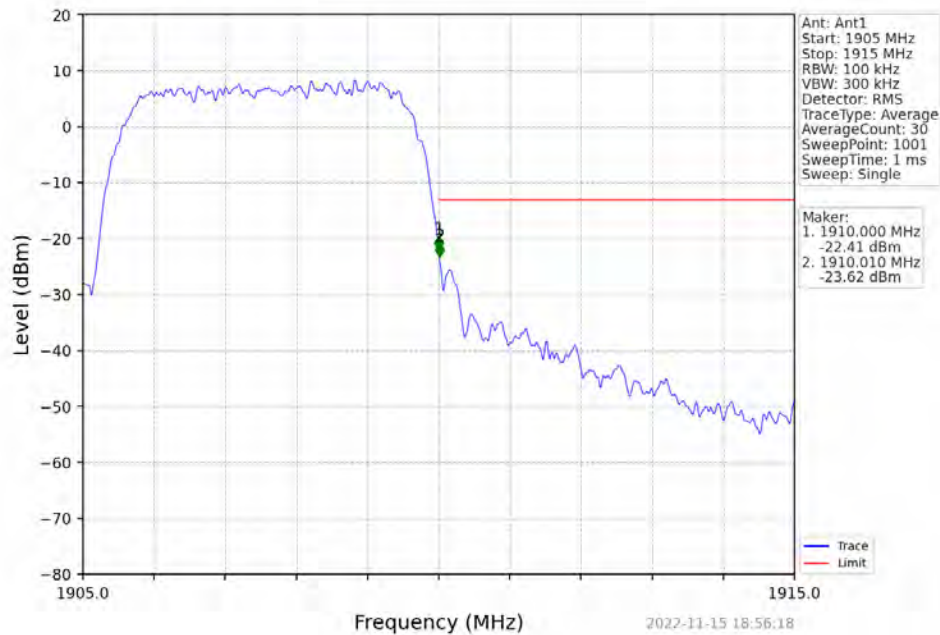
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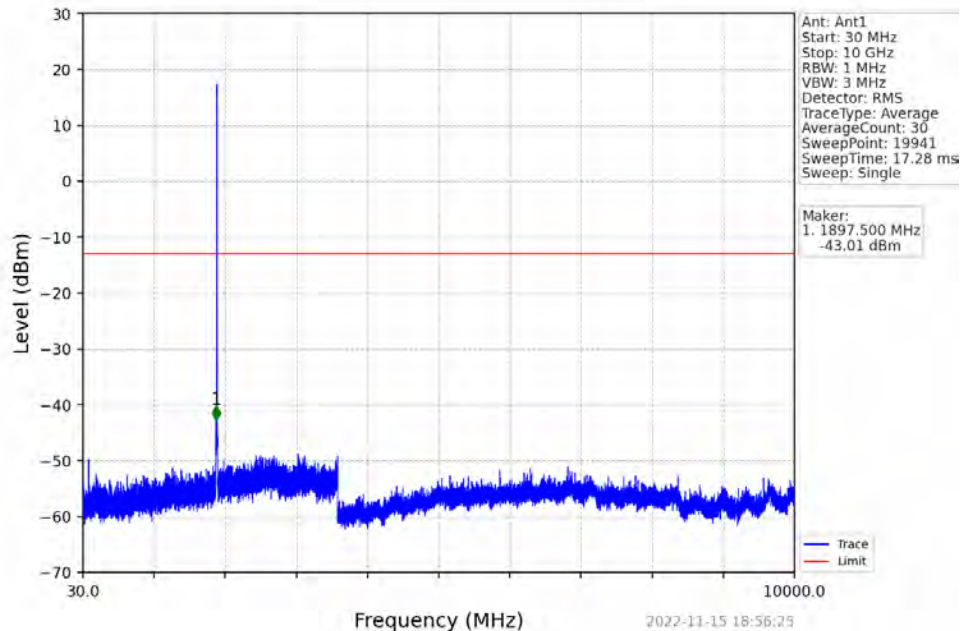
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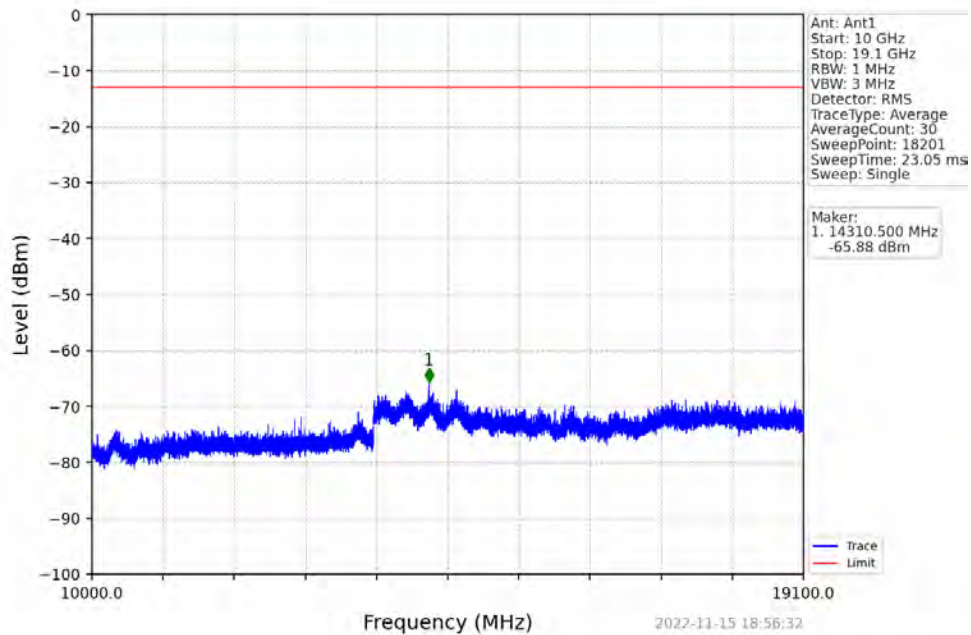
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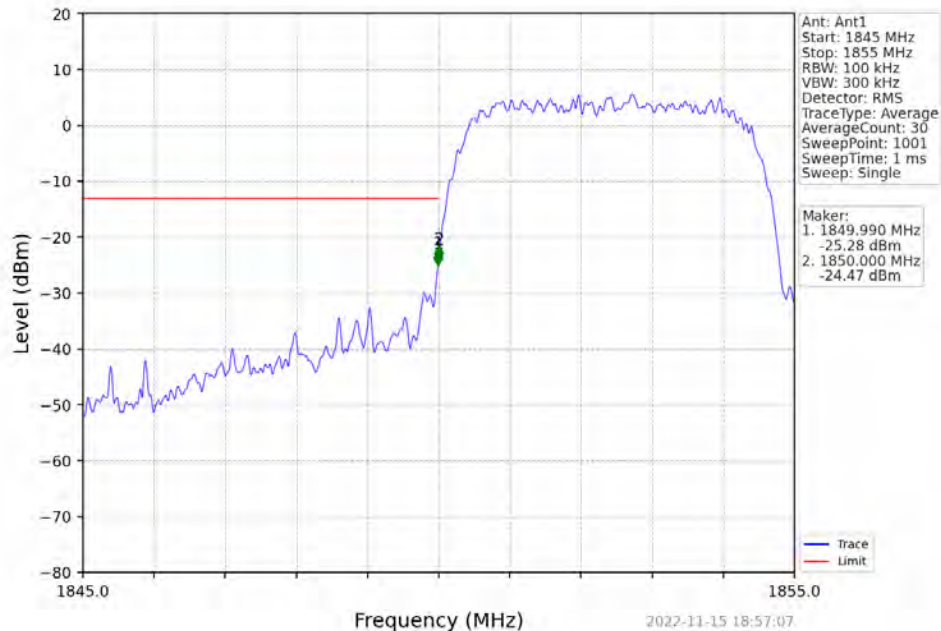
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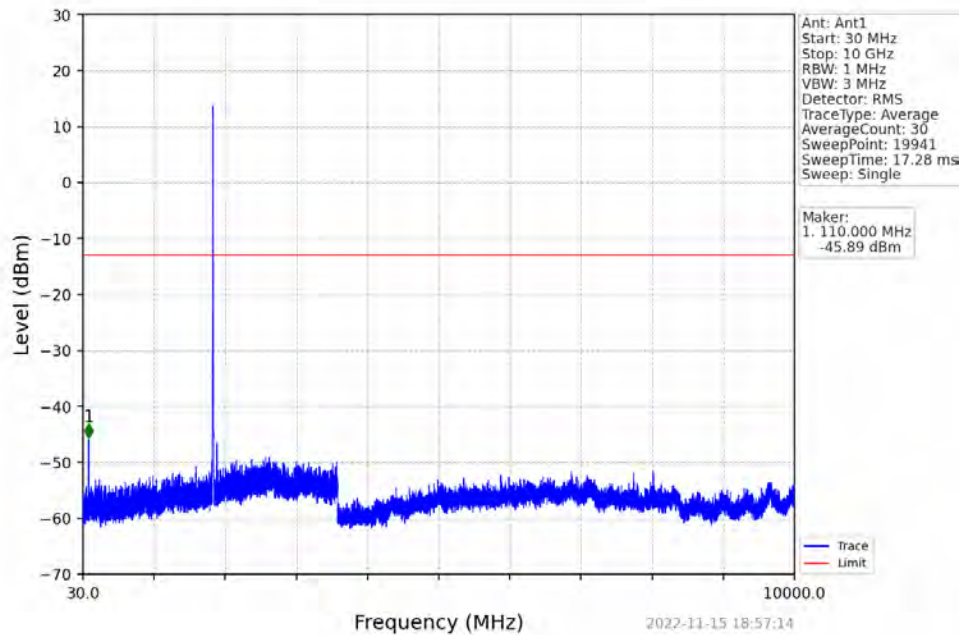
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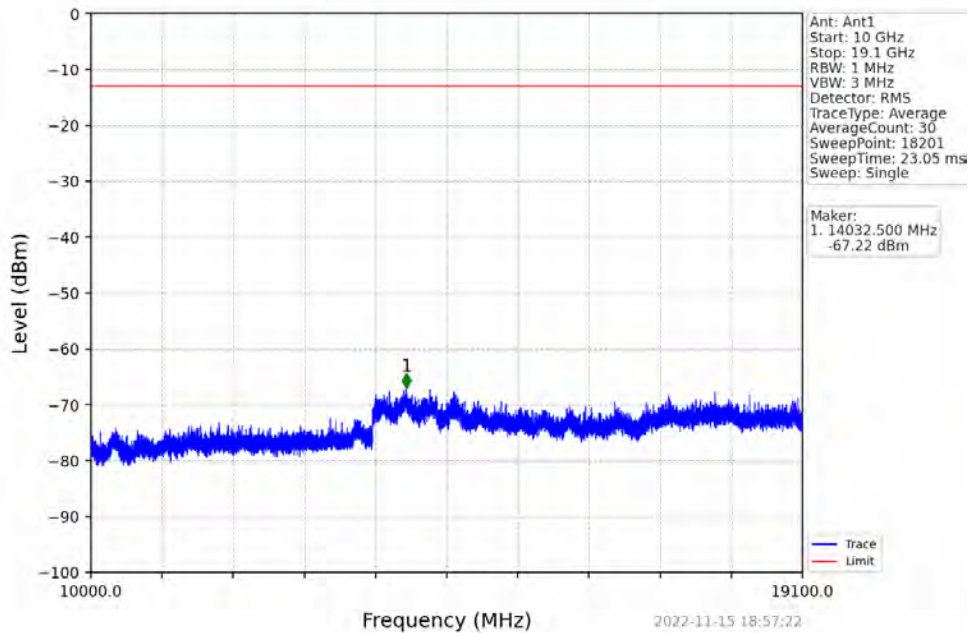
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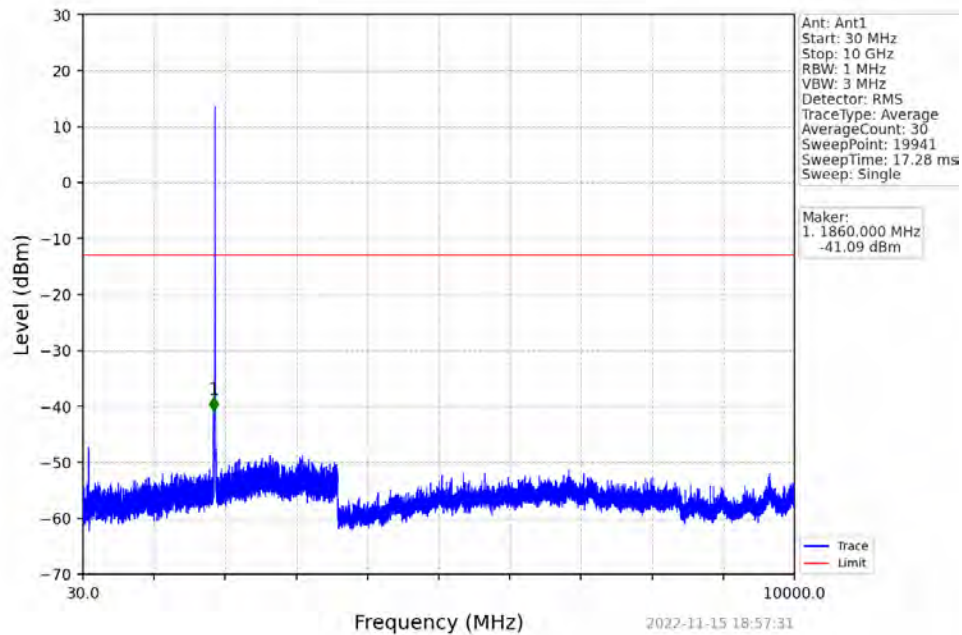
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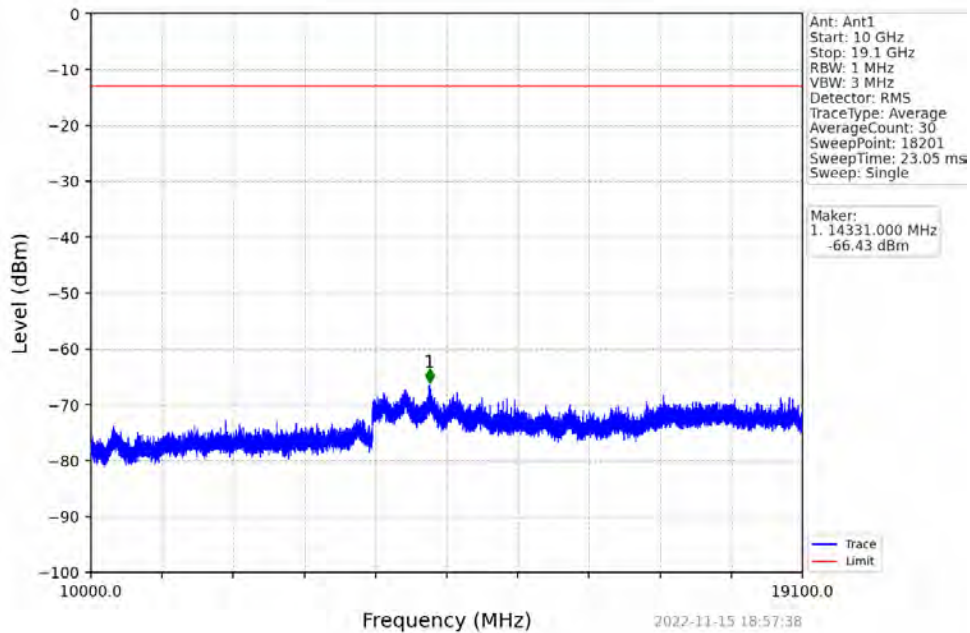
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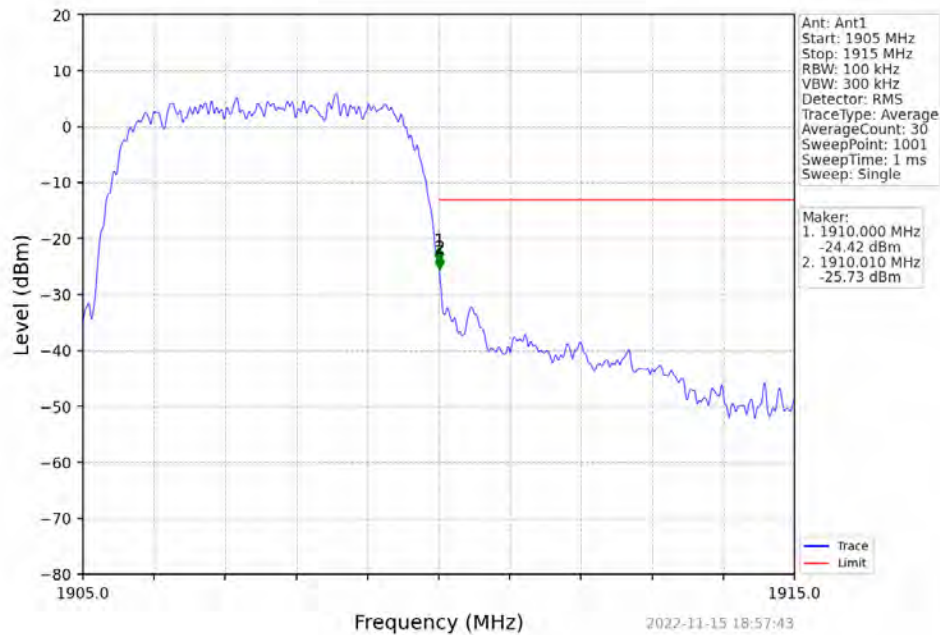
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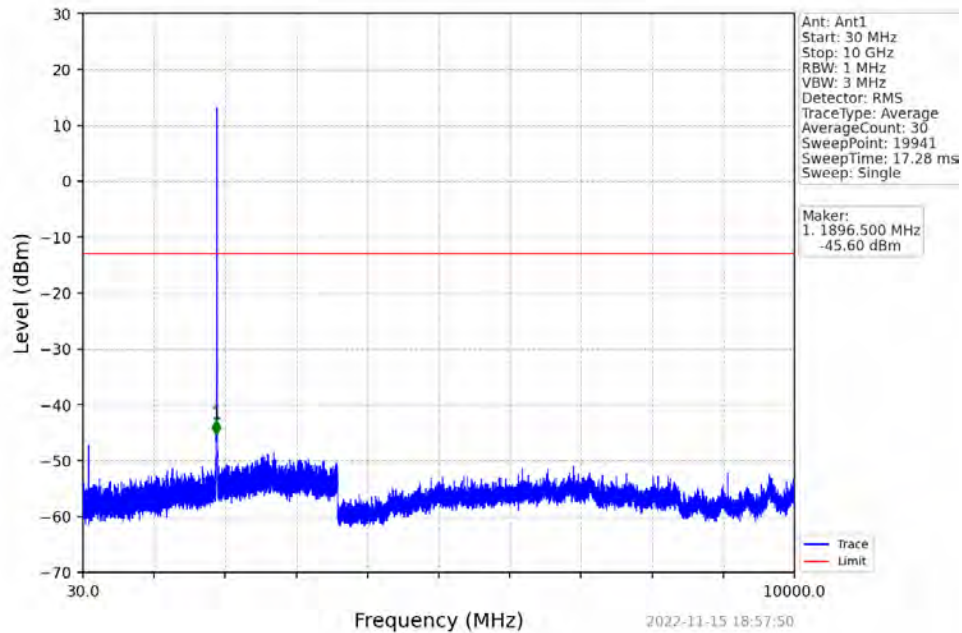
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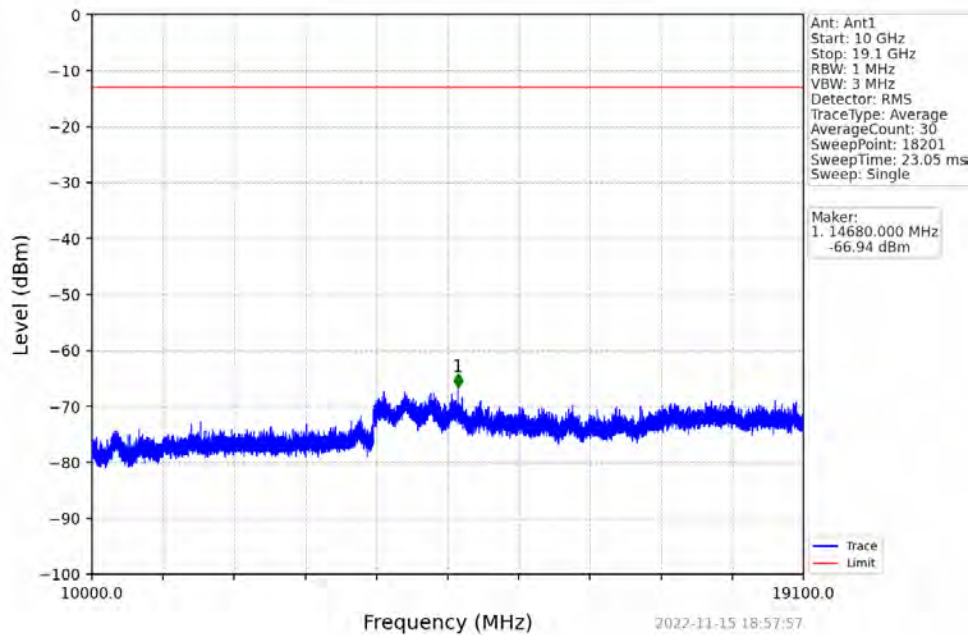
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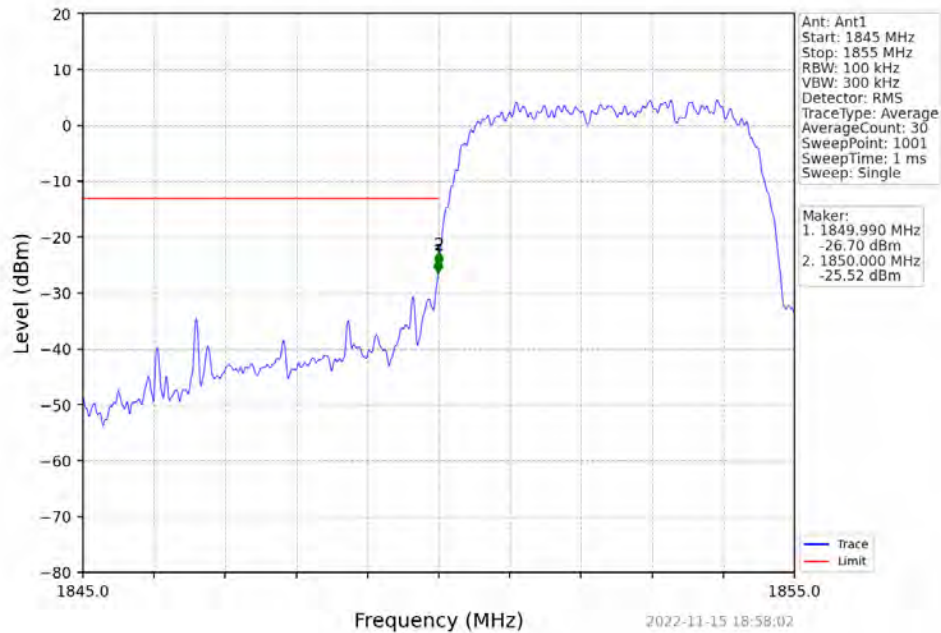
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



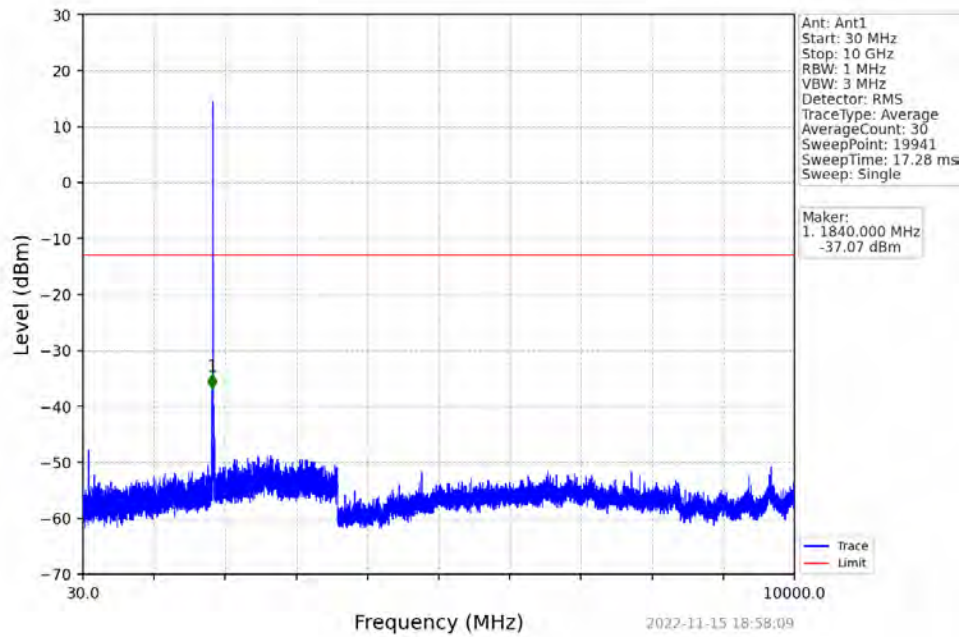
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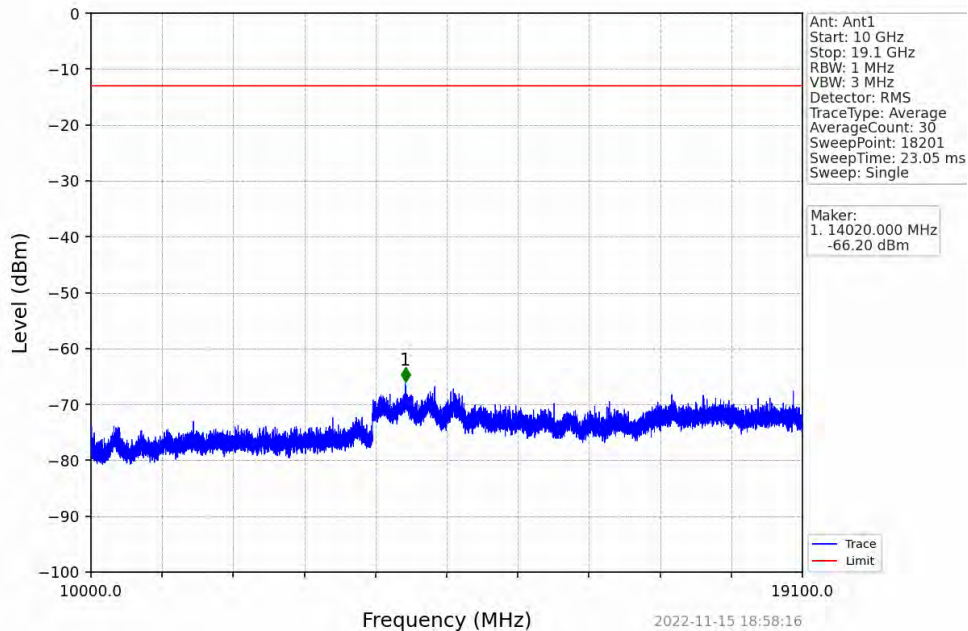
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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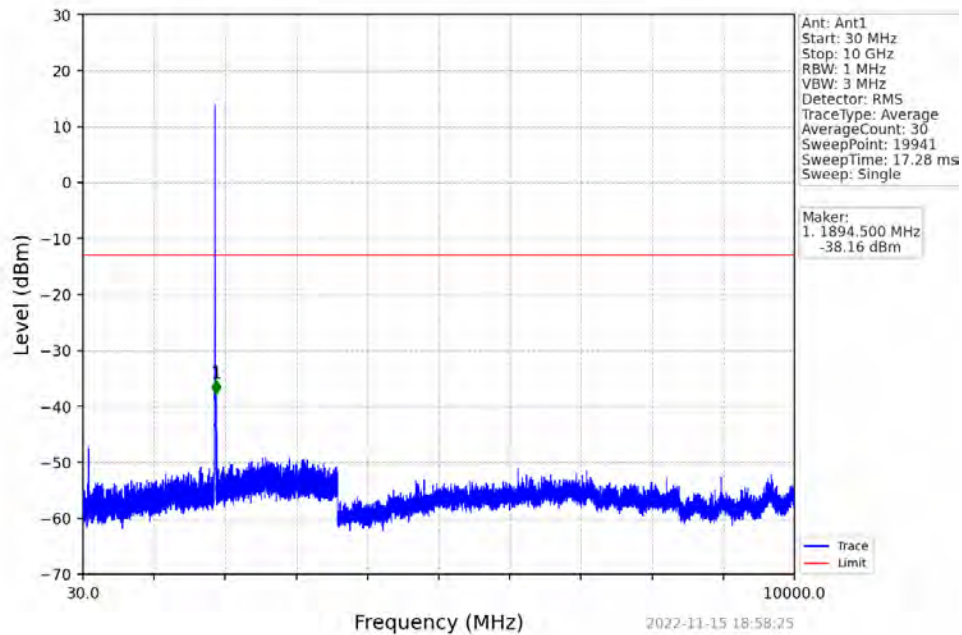
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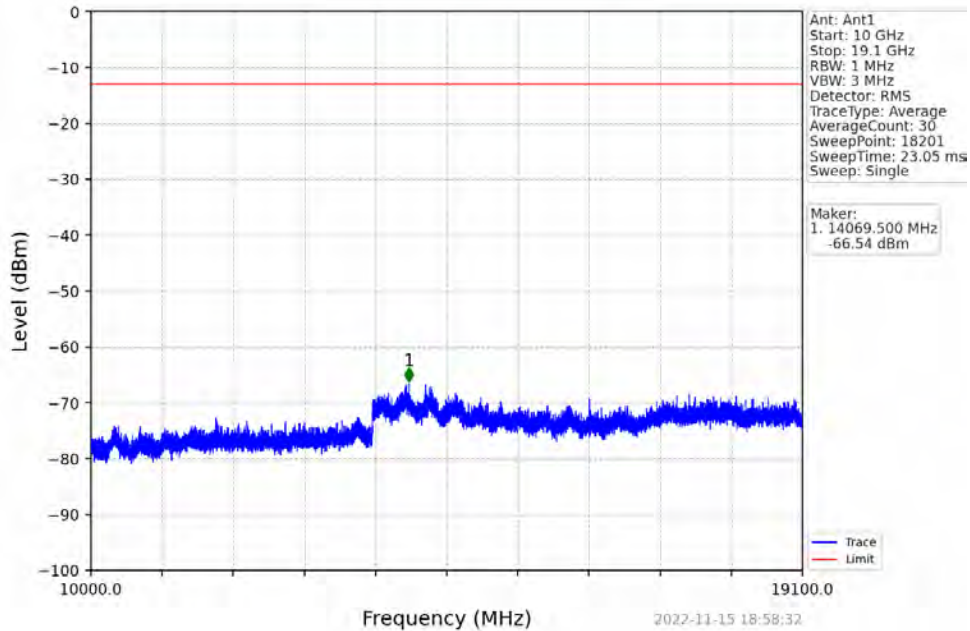
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



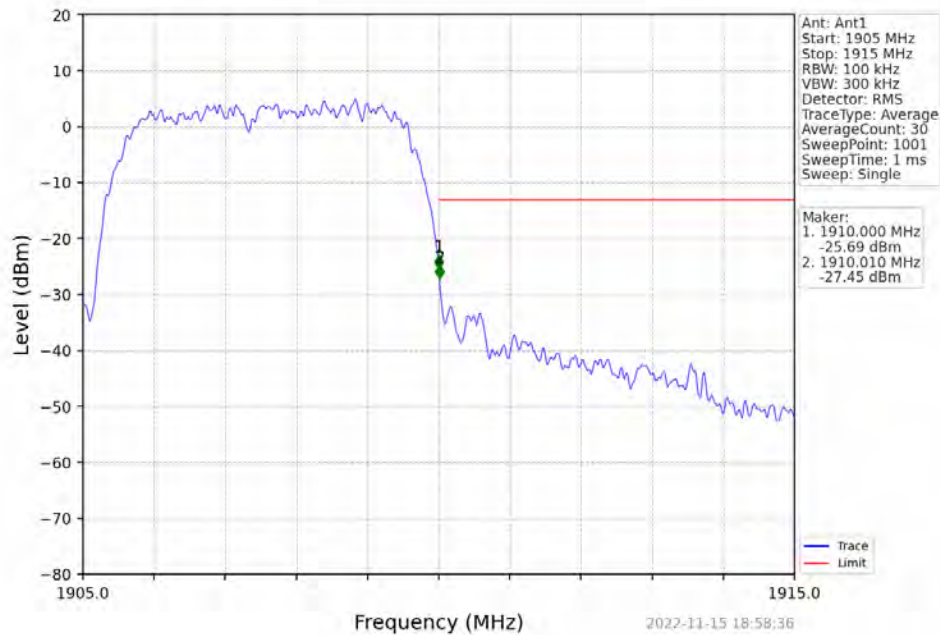
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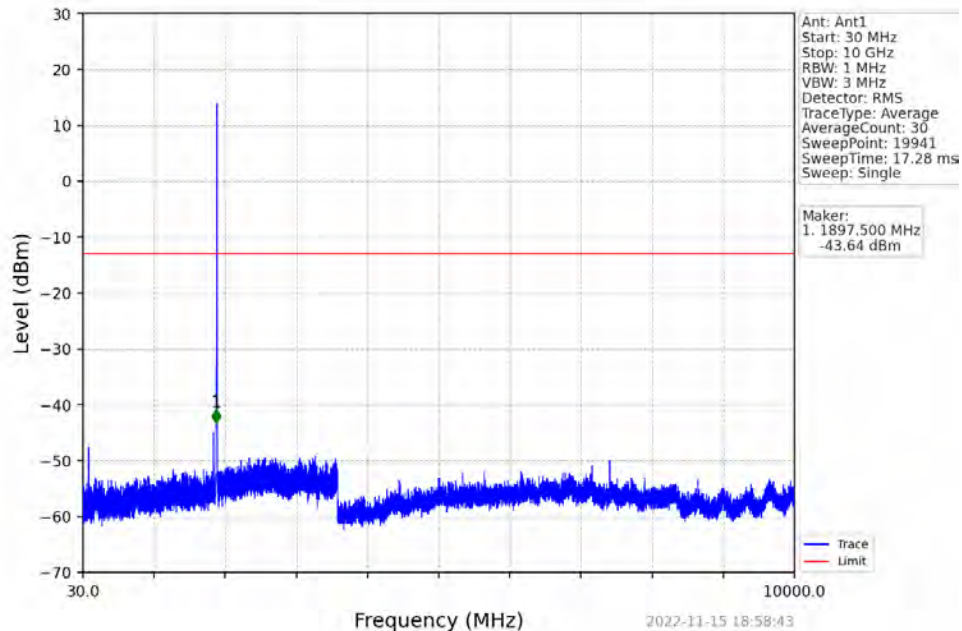
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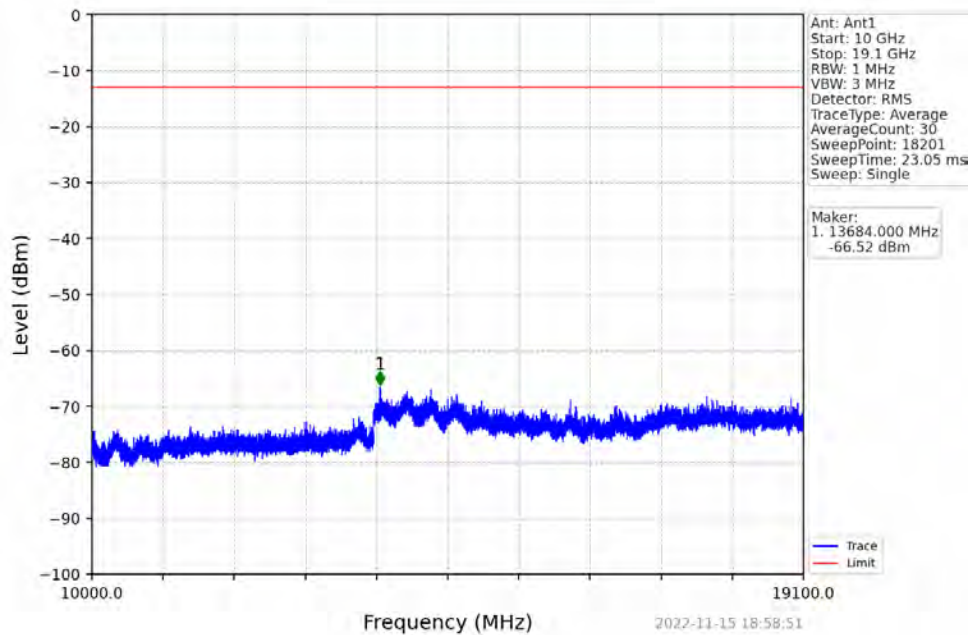
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Appendix for WCDMA Band 4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

Band: 4								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	22.91	2.30	25.21	<=30	Pass
			1732.6	22.98	2.30	25.28	<=30	Pass
			1752.6	22.88	2.30	25.18	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.10	2.30	23.40	<=30	Pass
		Subtest 2	1712.4	21.10	2.30	23.40	<=30	Pass
		Subtest 3	1712.4	21.05	2.30	23.35	<=30	Pass
		Subtest 4	1712.4	21.11	2.30	23.41	<=30	Pass
		Subtest 1	1732.6	21.15	2.30	23.45	<=30	Pass
		Subtest 2	1732.6	21.10	2.30	23.40	<=30	Pass
		Subtest 3	1732.6	20.94	2.30	23.24	<=30	Pass
		Subtest 4	1732.6	21.16	2.30	23.46	<=30	Pass
		Subtest 1	1752.6	20.97	2.30	23.27	<=30	Pass
		Subtest 2	1752.6	21.01	2.30	23.31	<=30	Pass
		Subtest 3	1752.6	20.95	2.30	23.25	<=30	Pass
		Subtest 4	1752.6	20.96	2.30	23.26	<=30	Pass
	HSUPA	Subtest 1	1712.4	20.12	2.30	22.42	<=30	Pass
		Subtest 2	1712.4	20.15	2.30	22.45	<=30	Pass
		Subtest 3	1712.4	18.94	2.30	21.24	<=30	Pass
		Subtest 4	1712.4	20.10	2.30	22.40	<=30	Pass
		Subtest 5	1712.4	20.12	2.30	22.42	<=30	Pass
		Subtest 1	1732.6	20.20	2.30	22.50	<=30	Pass
		Subtest 2	1732.6	20.44	2.30	22.74	<=30	Pass
		Subtest 3	1732.6	19.14	2.30	21.44	<=30	Pass
		Subtest 4	1732.6	20.43	2.30	22.73	<=30	Pass
		Subtest 5	1732.6	19.27	2.30	21.57	<=30	Pass
		Subtest 1	1752.6	19.81	2.30	22.11	<=30	Pass
		Subtest 2	1752.6	20.28	2.30	22.58	<=30	Pass
		Subtest 3	1752.6	19.21	2.30	21.51	<=30	Pass



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		Subtest 4	1752.6	20.30	2.30	22.60	<=30	Pass
		Subtest 5	1752.6	19.23	2.30	21.53	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.27	2.636	0.0015	-2.5 to 2.5	Pass
			3.85	2.236	0.0013	-2.5 to 2.5	Pass
			4.43	2.171	0.0013	-2.5 to 2.5	Pass
		-30	3.85	2.415	0.0014	-2.5 to 2.5	Pass
		-20	3.85	2.727	0.0016	-2.5 to 2.5	Pass
		-10	3.85	2.978	0.0017	-2.5 to 2.5	Pass
		0	3.85	2.691	0.0016	-2.5 to 2.5	Pass
		10	3.85	2.705	0.0016	-2.5 to 2.5	Pass
		30	3.85	2.833	0.0017	-2.5 to 2.5	Pass
		40	3.85	3.218	0.0019	-2.5 to 2.5	Pass
		50	3.85	3.583	0.0021	-2.5 to 2.5	Pass
	1732.6	20	3.27	-0.396	-0.0002	-2.5 to 2.5	Pass
			3.85	-0.569	-0.0003	-2.5 to 2.5	Pass
			4.43	-0.230	-0.0001	-2.5 to 2.5	Pass
		-30	3.85	-0.444	-0.0003	-2.5 to 2.5	Pass
		-20	3.85	0.334	0.0002	-2.5 to 2.5	Pass
		-10	3.85	0.404	0.0002	-2.5 to 2.5	Pass
		0	3.85	-0.397	-0.0002	-2.5 to 2.5	Pass
		10	3.85	-0.389	-0.0002	-2.5 to 2.5	Pass
		30	3.85	0.539	0.0003	-2.5 to 2.5	Pass
		40	3.85	0.100	0.0001	-2.5 to 2.5	Pass
		50	3.85	0.337	0.0002	-2.5 to 2.5	Pass
	1752.6	20	3.27	-3.089	-0.0018	-2.5 to 2.5	Pass
			3.85	-3.042	-0.0017	-2.5 to 2.5	Pass
			4.43	-3.023	-0.0017	-2.5 to 2.5	Pass
		-30	3.85	-3.011	-0.0017	-2.5 to 2.5	Pass
		-20	3.85	-3.563	-0.0020	-2.5 to 2.5	Pass



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HSDPA		-10	3.85	-3.541	-0.0020	-2.5 to 2.5	Pass
		0	3.85	-3.187	-0.0018	-2.5 to 2.5	Pass
		10	3.85	-3.826	-0.0022	-2.5 to 2.5	Pass
		30	3.85	-3.335	-0.0019	-2.5 to 2.5	Pass
		40	3.85	-3.682	-0.0021	-2.5 to 2.5	Pass
		50	3.85	-3.625	-0.0021	-2.5 to 2.5	Pass
	1712.4	20	3.27	5.910	0.0035	-2.5 to 2.5	Pass
			3.85	5.072	0.0030	-2.5 to 2.5	Pass
			4.43	5.542	0.0032	-2.5 to 2.5	Pass
		-30	3.85	6.571	0.0038	-2.5 to 2.5	Pass
		-20	3.85	6.214	0.0036	-2.5 to 2.5	Pass
		-10	3.85	6.051	0.0035	-2.5 to 2.5	Pass
		0	3.85	6.219	0.0036	-2.5 to 2.5	Pass
		10	3.85	6.331	0.0037	-2.5 to 2.5	Pass
		30	3.85	6.017	0.0035	-2.5 to 2.5	Pass
		40	3.85	6.033	0.0035	-2.5 to 2.5	Pass
		50	3.85	6.702	0.0039	-2.5 to 2.5	Pass
	1732.6	20	3.27	-1.343	-0.0008	-2.5 to 2.5	Pass
			3.85	-0.542	-0.0003	-2.5 to 2.5	Pass
			4.43	-1.705	-0.0010	-2.5 to 2.5	Pass
		-30	3.85	-1.150	-0.0007	-2.5 to 2.5	Pass
		-20	3.85	-1.784	-0.0010	-2.5 to 2.5	Pass
		-10	3.85	0.589	0.0003	-2.5 to 2.5	Pass
		0	3.85	1.182	0.0007	-2.5 to 2.5	Pass
		10	3.85	-1.222	-0.0007	-2.5 to 2.5	Pass
		30	3.85	-0.927	-0.0005	-2.5 to 2.5	Pass
		40	3.85	0.953	0.0006	-2.5 to 2.5	Pass
		50	3.85	1.513	0.0009	-2.5 to 2.5	Pass
	1752.6	20	3.27	-1.483	-0.0008	-2.5 to 2.5	Pass
			3.85	-1.133	-0.0006	-2.5 to 2.5	Pass
			4.43	-1.447	-0.0008	-2.5 to 2.5	Pass
		-30	3.85	-0.769	-0.0004	-2.5 to 2.5	Pass
		-20	3.85	-2.007	-0.0011	-2.5 to 2.5	Pass
		-10	3.85	-1.736	-0.0010	-2.5 to 2.5	Pass
		0	3.85	-1.971	-0.0011	-2.5 to 2.5	Pass
		10	3.85	-1.039	-0.0006	-2.5 to 2.5	Pass
		30	3.85	-1.918	-0.0011	-2.5 to 2.5	Pass
		40	3.85	-1.883	-0.0011	-2.5 to 2.5	Pass
		50	3.85	-1.794	-0.0010	-2.5 to 2.5	Pass



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HSUPA	1712.4	20	3.27	2.250	0.0013	-2.5 to 2.5	Pass
			3.85	2.578	0.0015	-2.5 to 2.5	Pass
			4.43	2.966	0.0017	-2.5 to 2.5	Pass
		-30	3.85	2.189	0.0013	-2.5 to 2.5	Pass
		-20	3.85	2.373	0.0014	-2.5 to 2.5	Pass
		-10	3.85	1.690	0.0010	-2.5 to 2.5	Pass
		0	3.85	2.241	0.0013	-2.5 to 2.5	Pass
		10	3.85	2.273	0.0013	-2.5 to 2.5	Pass
		30	3.85	2.701	0.0016	-2.5 to 2.5	Pass
		40	3.85	2.772	0.0016	-2.5 to 2.5	Pass
		50	3.85	2.606	0.0015	-2.5 to 2.5	Pass
	1732.6	20	3.27	-0.164	-0.0001	-2.5 to 2.5	Pass
			3.85	0.333	0.0002	-2.5 to 2.5	Pass
			4.43	0.277	0.0002	-2.5 to 2.5	Pass
		-30	3.85	-0.645	-0.0004	-2.5 to 2.5	Pass
		-20	3.85	0.571	0.0003	-2.5 to 2.5	Pass
		-10	3.85	-0.163	-0.0001	-2.5 to 2.5	Pass
		0	3.85	0.560	0.0003	-2.5 to 2.5	Pass
		10	3.85	0.373	0.0002	-2.5 to 2.5	Pass
		30	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
		40	3.85	0.510	0.0003	-2.5 to 2.5	Pass
		50	3.85	0.123	0.0001	-2.5 to 2.5	Pass
	1752.6	20	3.27	-1.627	-0.0009	-2.5 to 2.5	Pass
			3.85	-1.185	-0.0007	-2.5 to 2.5	Pass
			4.43	-1.224	-0.0007	-2.5 to 2.5	Pass
		-30	3.85	-1.867	-0.0011	-2.5 to 2.5	Pass
		-20	3.85	-1.356	-0.0008	-2.5 to 2.5	Pass
		-10	3.85	-1.793	-0.0010	-2.5 to 2.5	Pass
		0	3.85	-2.175	-0.0012	-2.5 to 2.5	Pass
		10	3.85	-1.947	-0.0011	-2.5 to 2.5	Pass
		30	3.85	-1.061	-0.0006	-2.5 to 2.5	Pass
		40	3.85	-2.205	-0.0013	-2.5 to 2.5	Pass
		50	3.85	-2.465	-0.0014	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band4

3.1.1 Test Result



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Band: 4					
ENV	Mode		Frequency (MHz)	Modulation Characteristics	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1732.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1732.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1732.6	Refer To Test Graph	Pass



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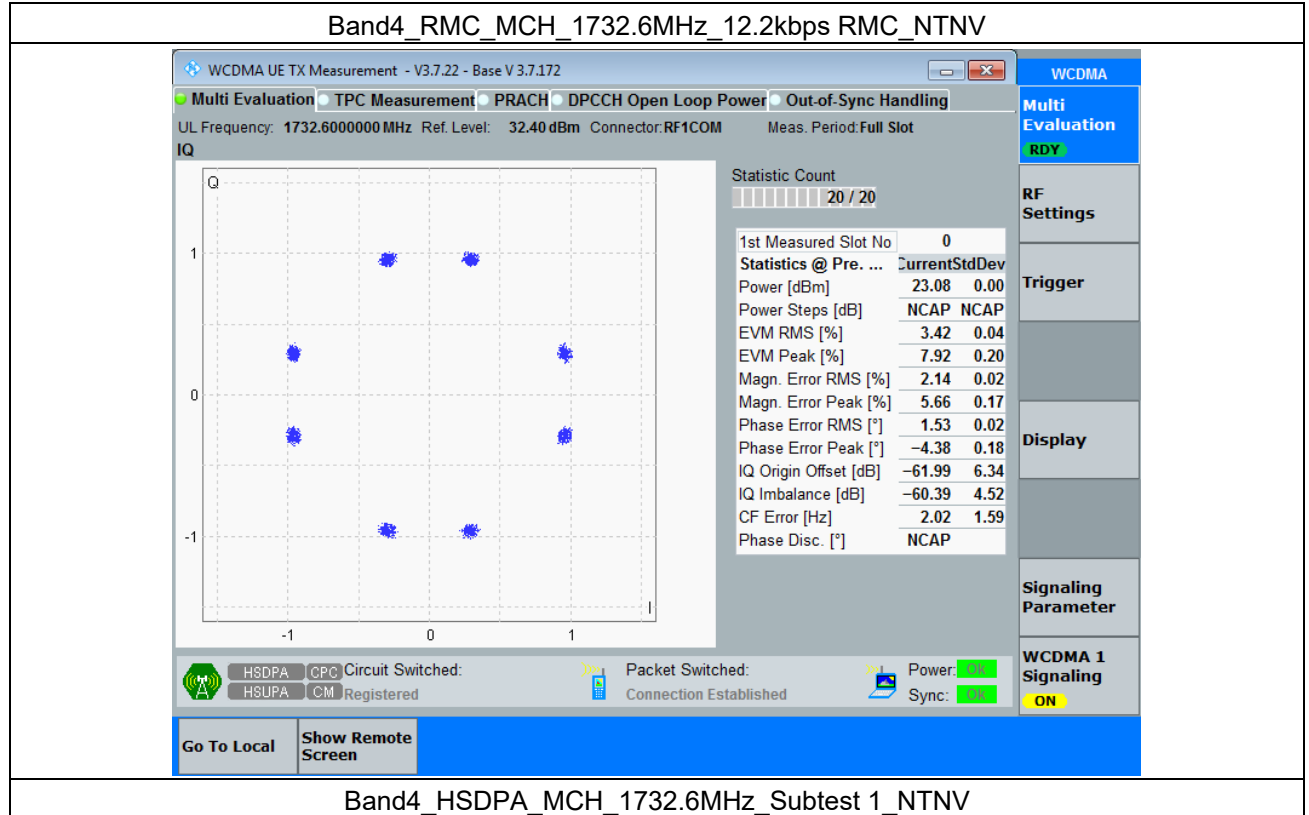
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3.1.2 Test Graph



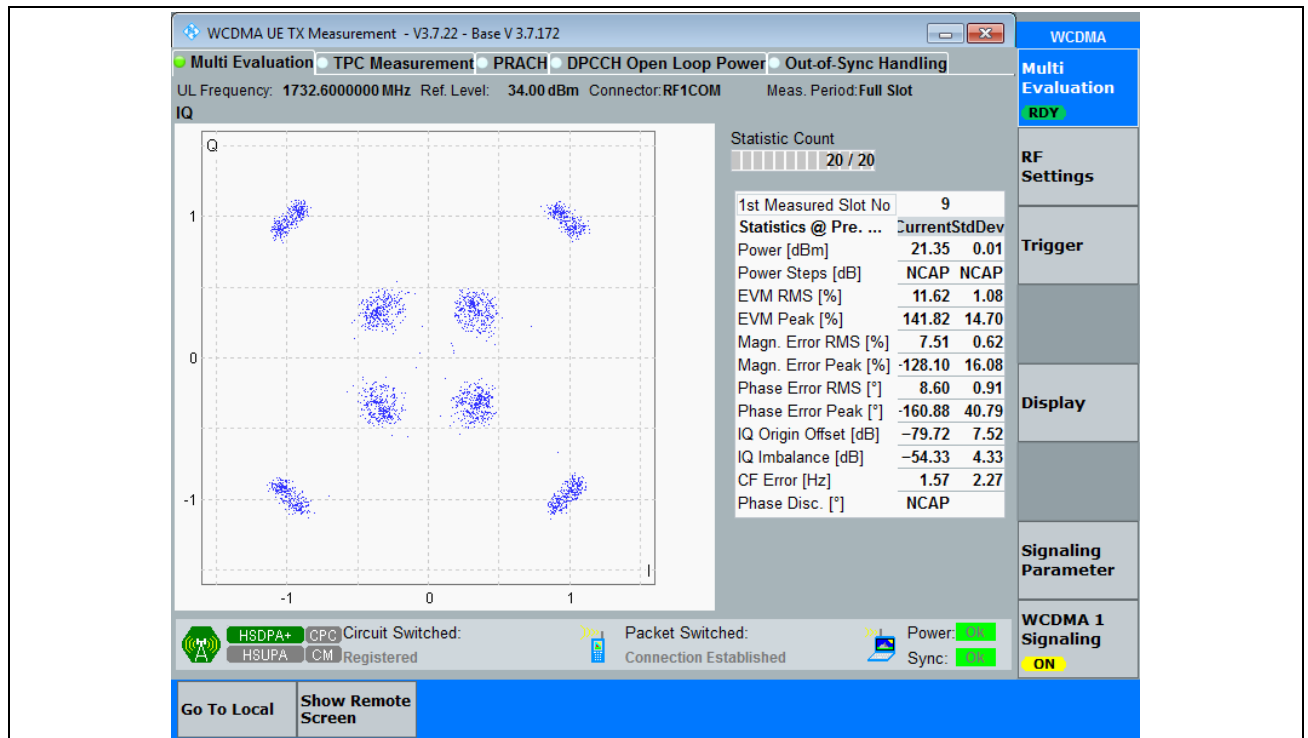
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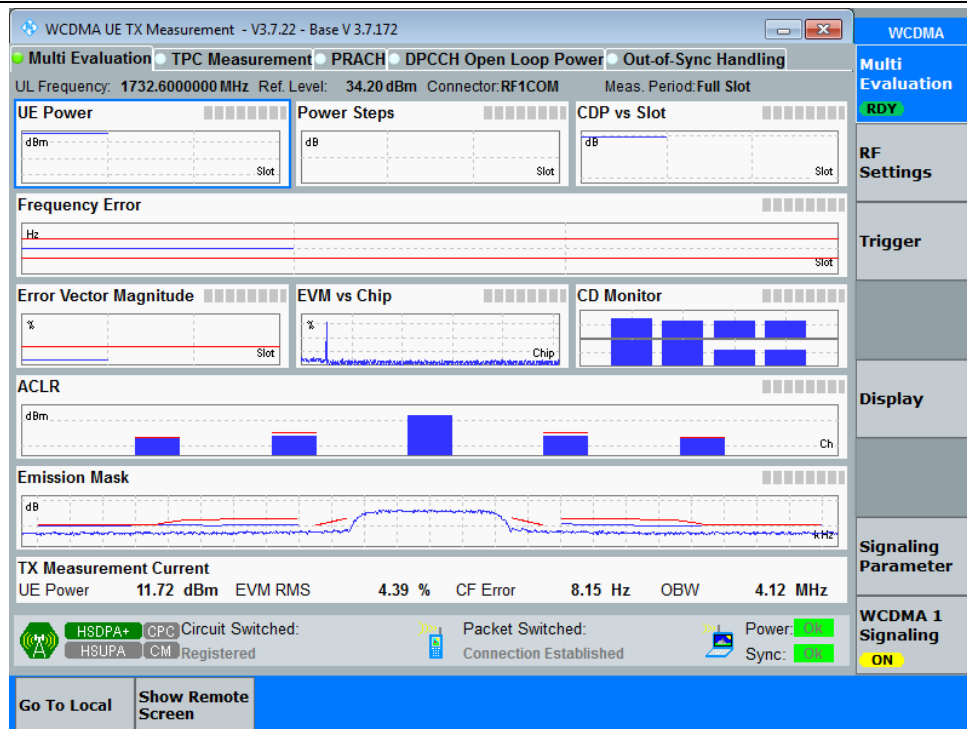
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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.136	Pass
			1732.6	4.128	Pass
			1752.6	4.127	Pass
	HSDPA	Subtest 1	1712.4	4.131	Pass
			1732.6	4.186	Pass
			1752.6	4.141	Pass
	HSUPA	Subtest 1	1712.4	4.142	Pass
			1732.6	4.191	Pass
			1752.6	4.140	Pass

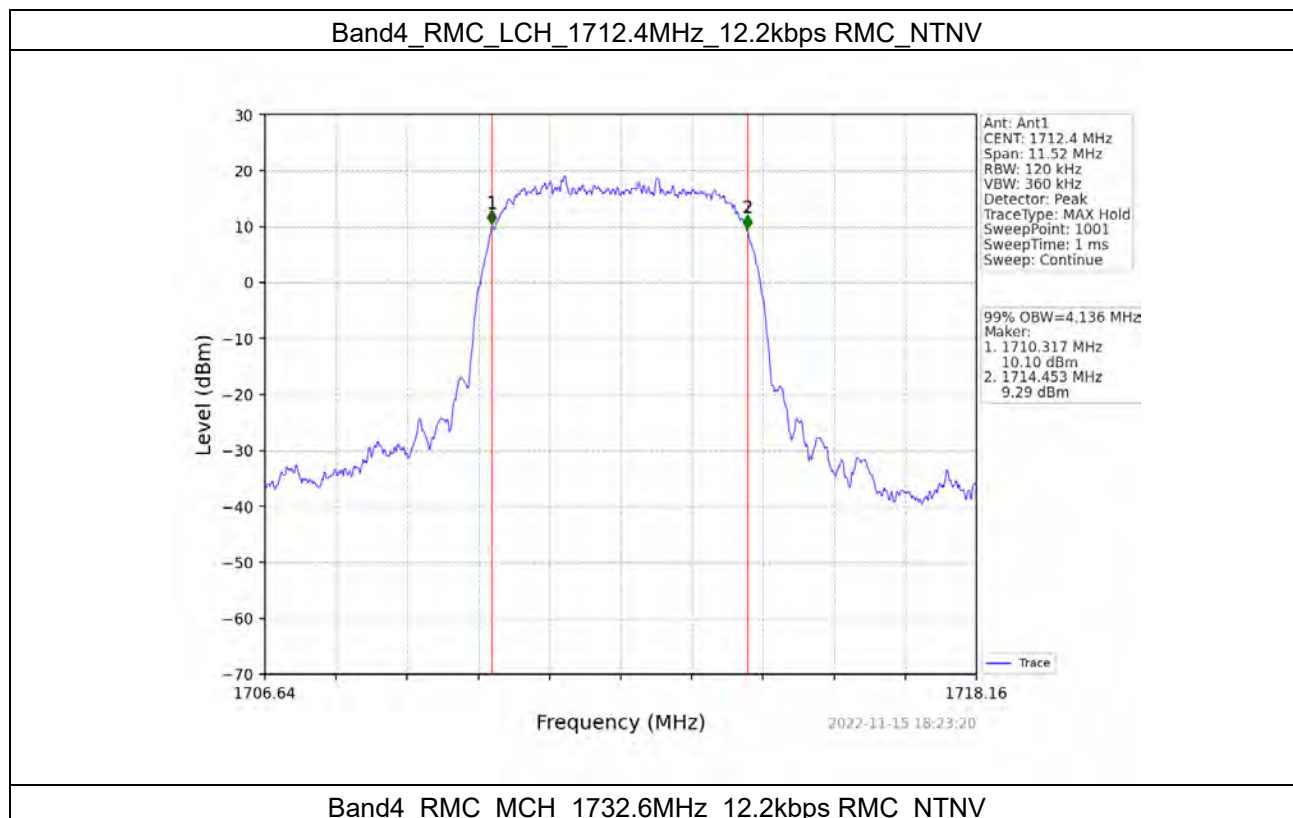


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4.1.2 Test Graph



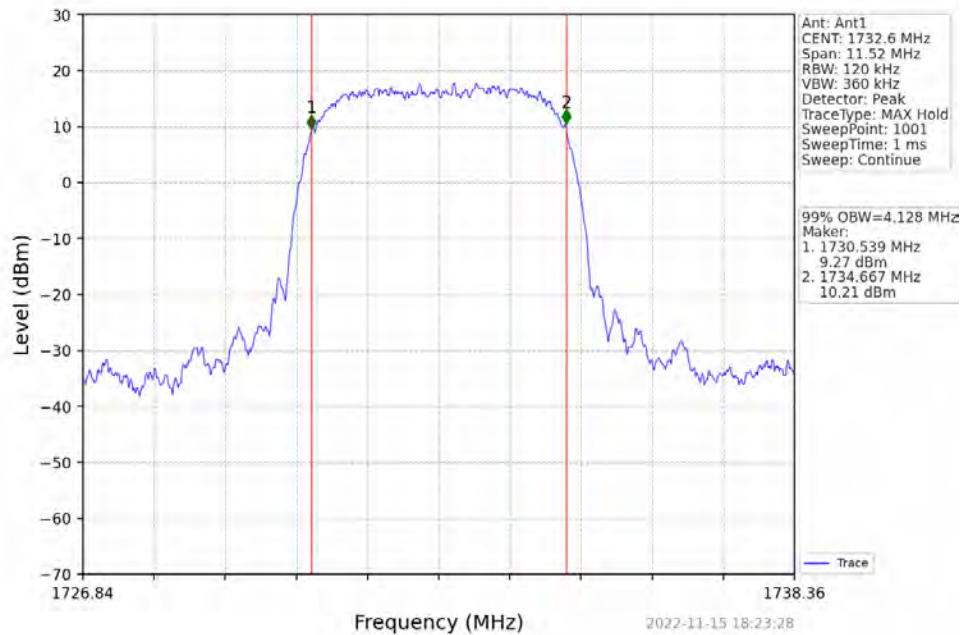
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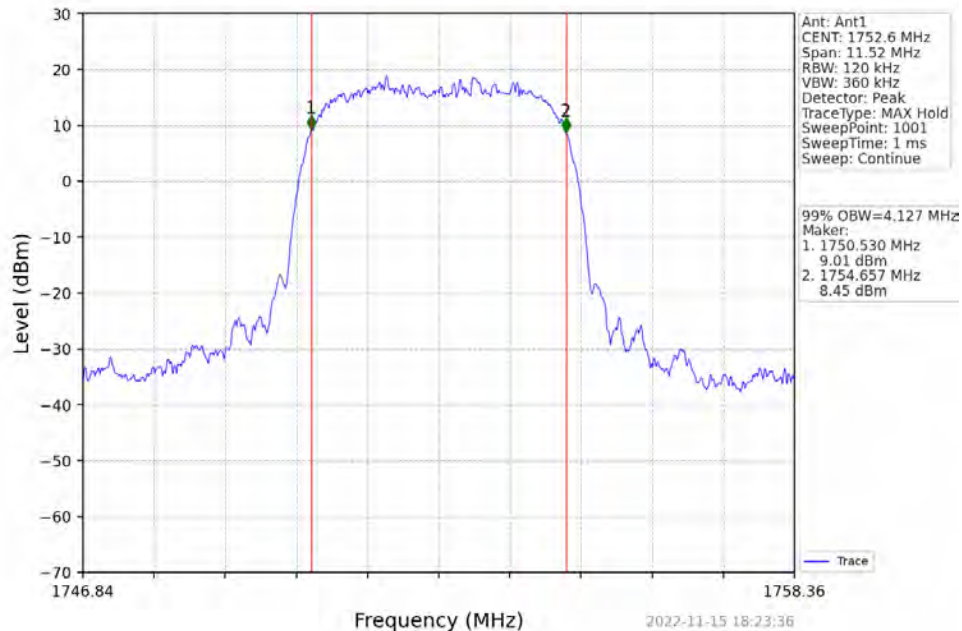
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Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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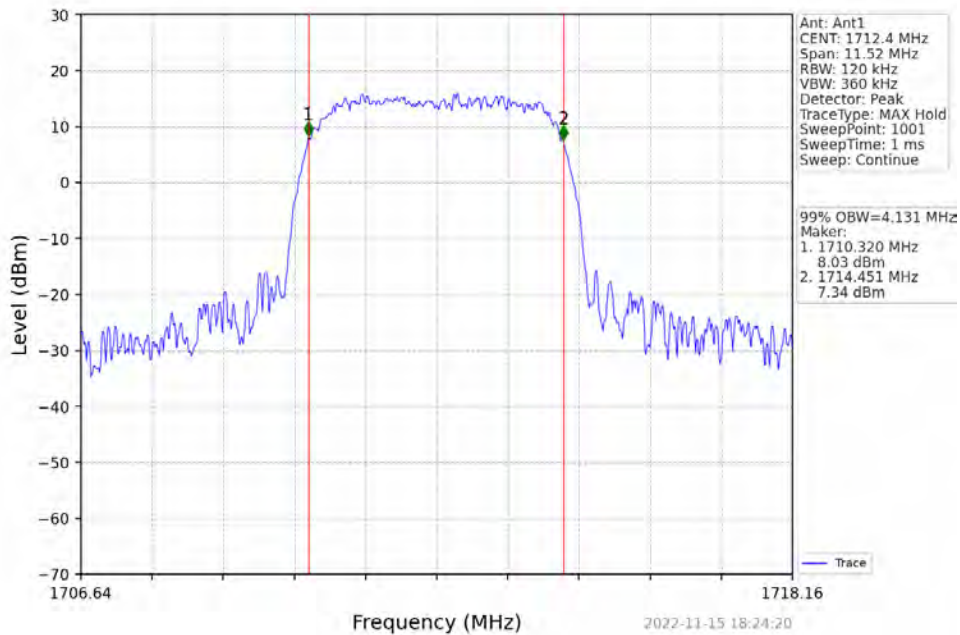
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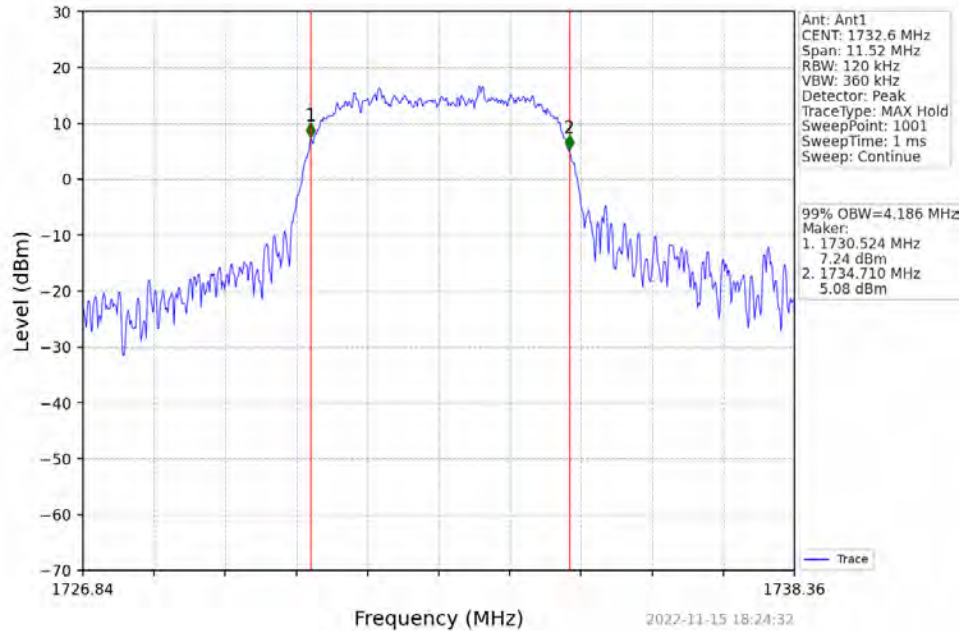
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Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



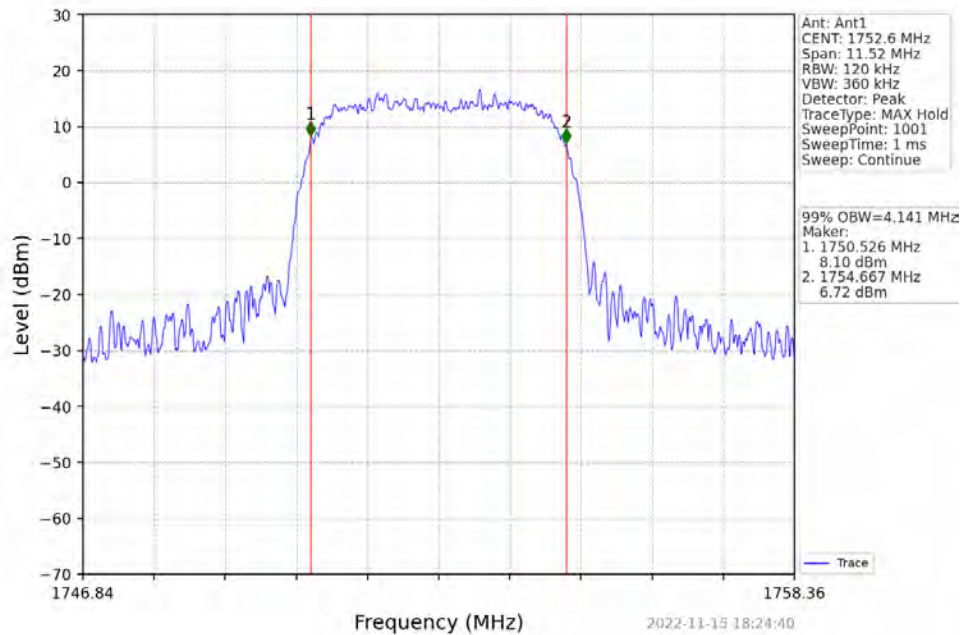
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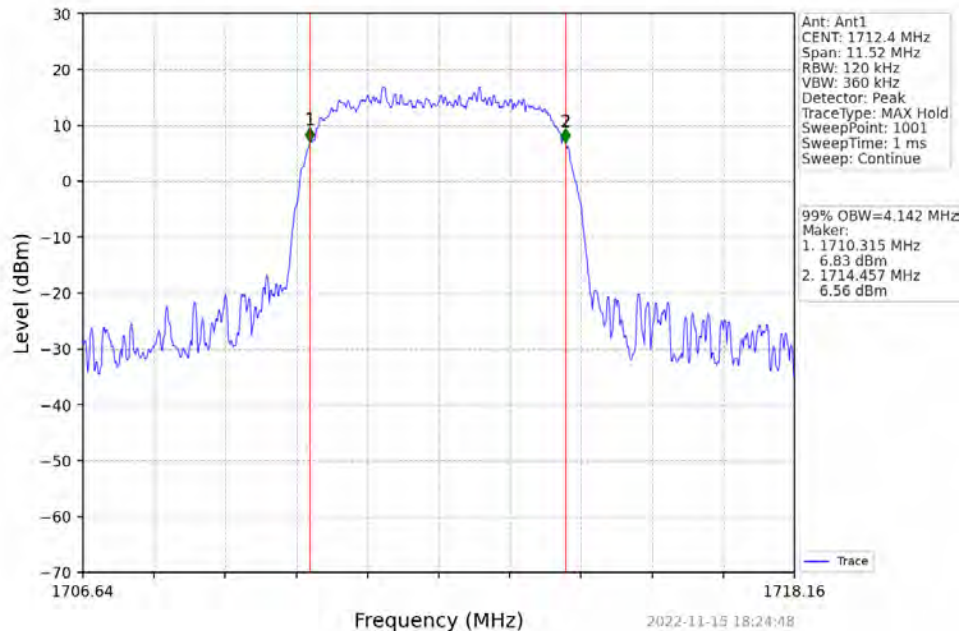
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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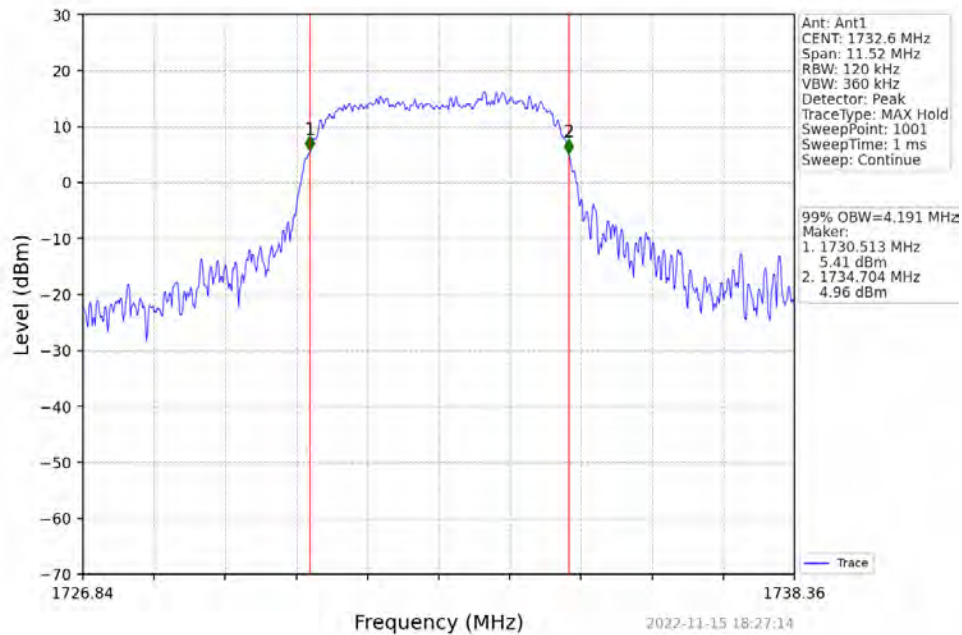
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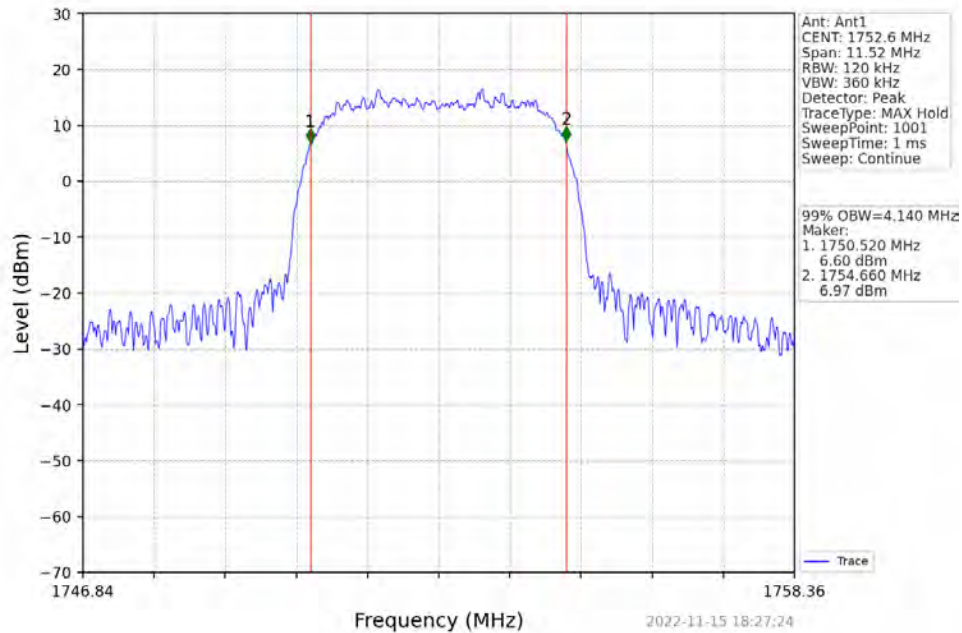
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Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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4.2 Band4_XDB

4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.723	Pass
			1732.6	4.748	Pass
			1752.6	4.720	Pass
	HSDPA	Subtest 1	1712.4	4.723	Pass
			1732.6	5.531	Pass
			1752.6	4.716	Pass
	HSUPA	Subtest 1	1712.4	4.722	Pass
			1732.6	5.933	Pass
			1752.6	4.735	Pass



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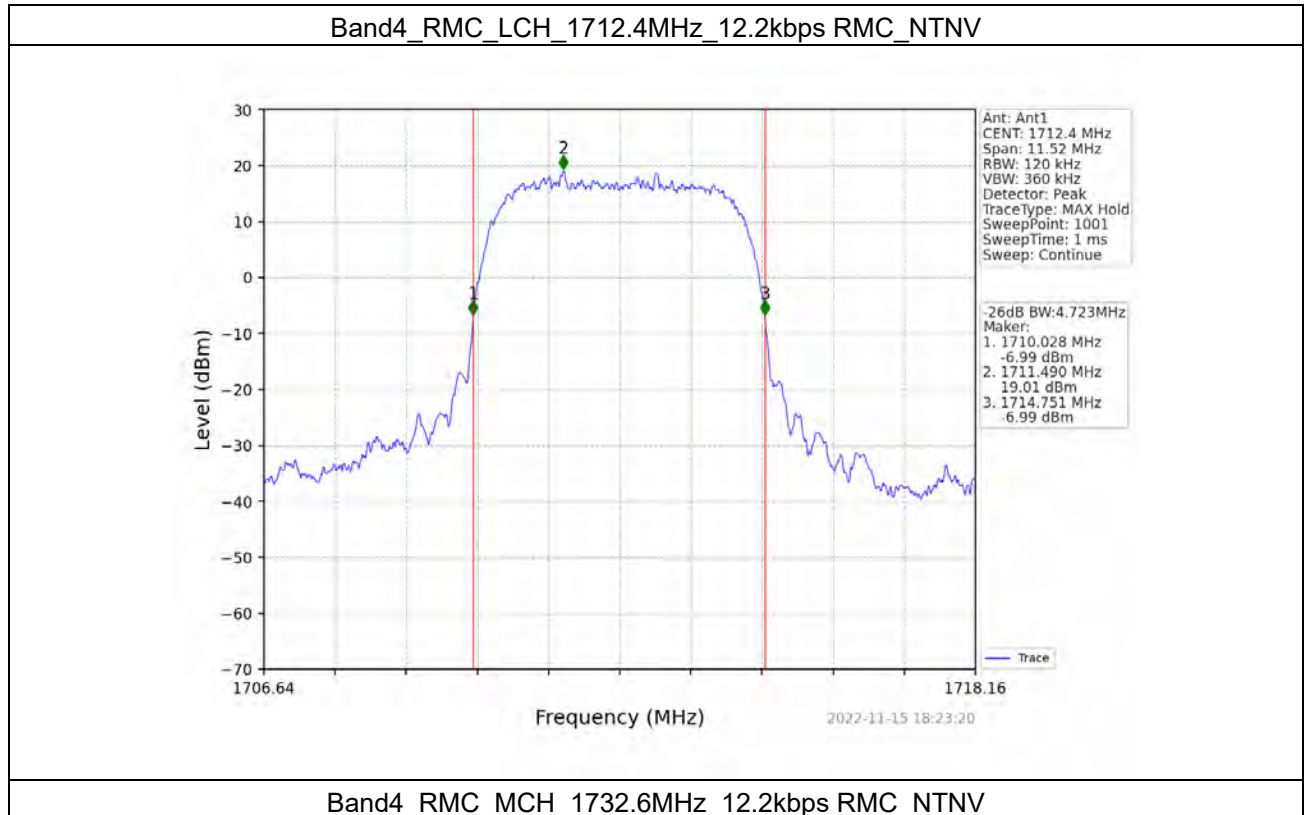
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4.2.2 Test Graph



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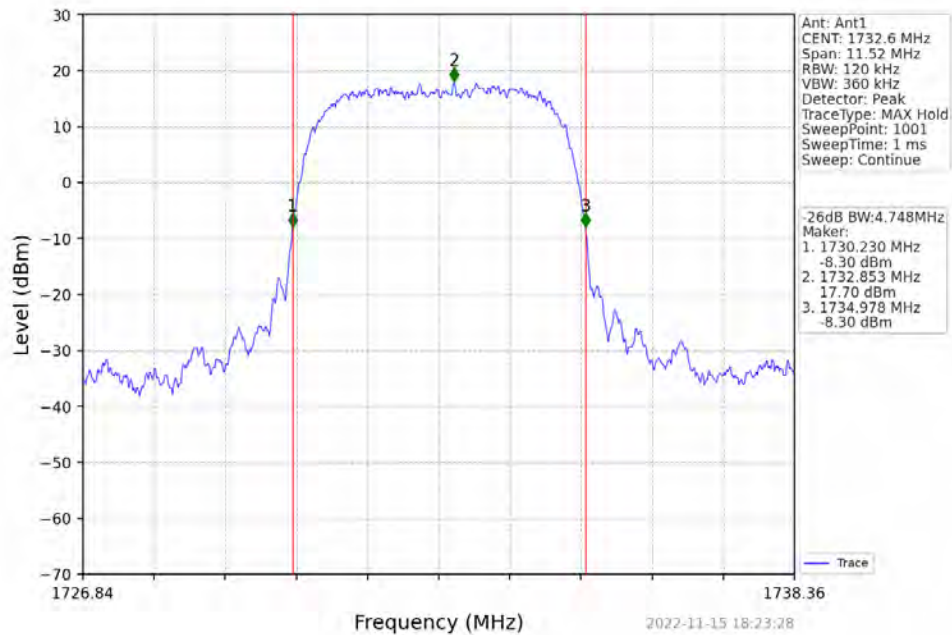
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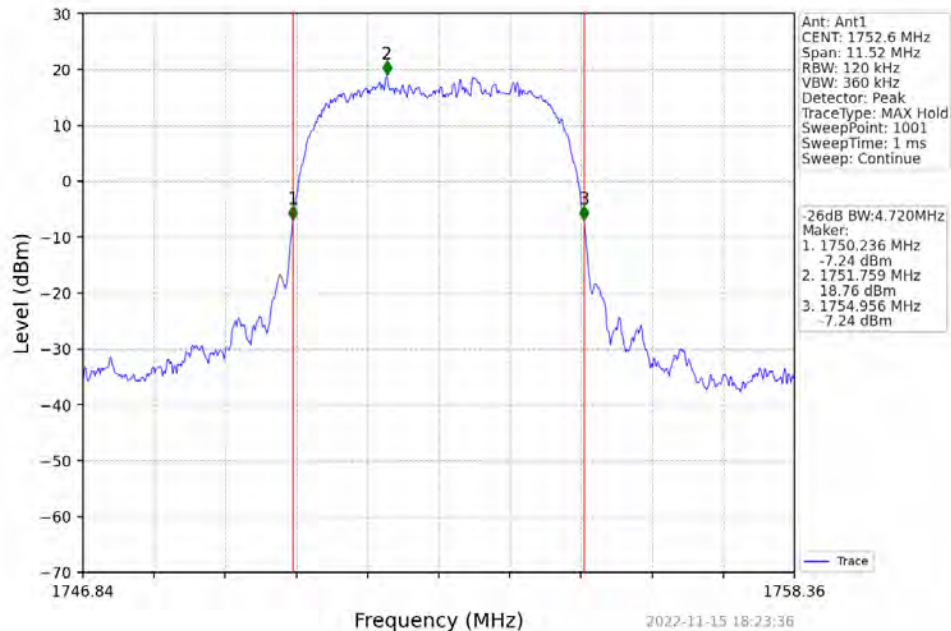
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



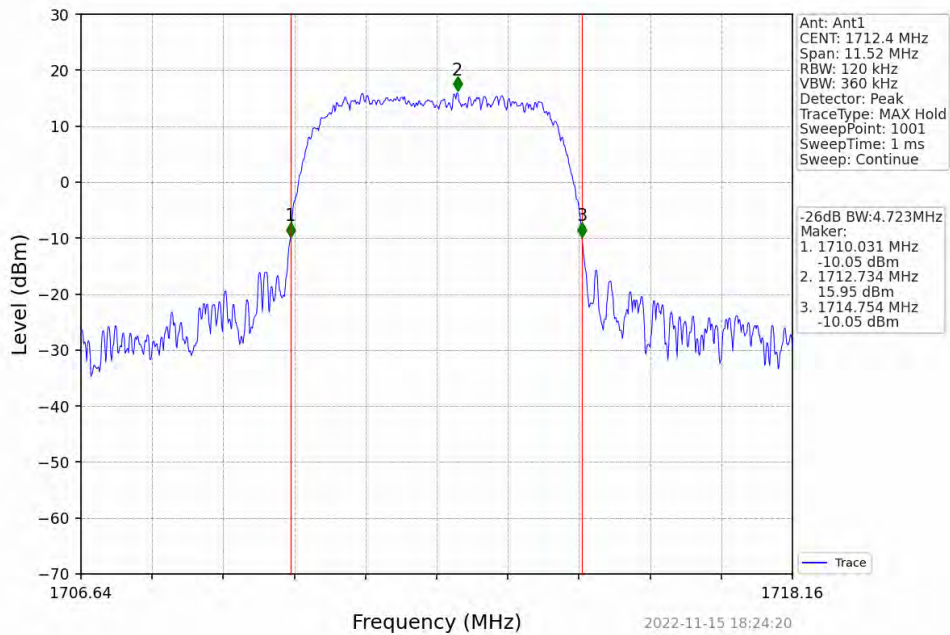
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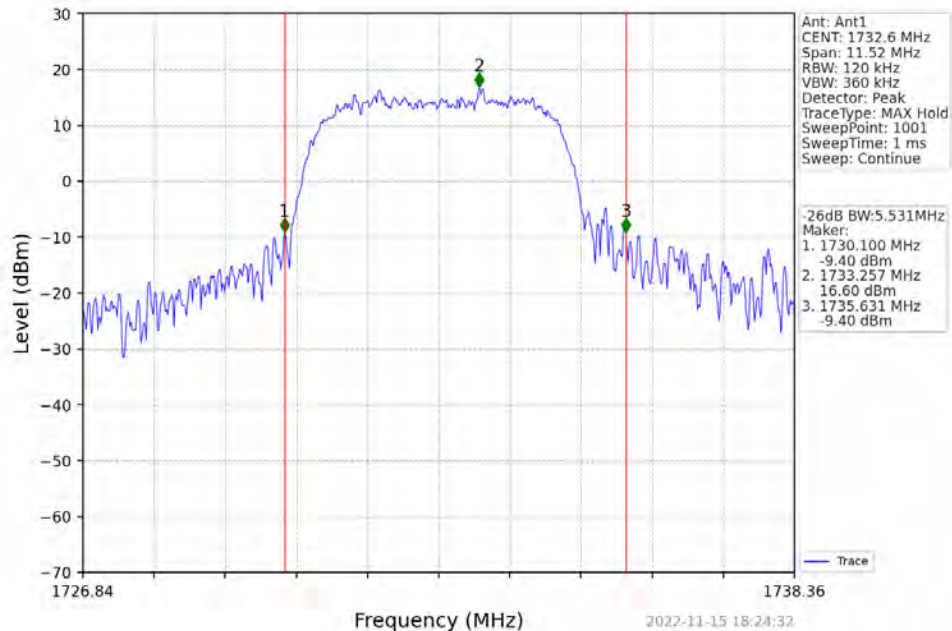
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Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



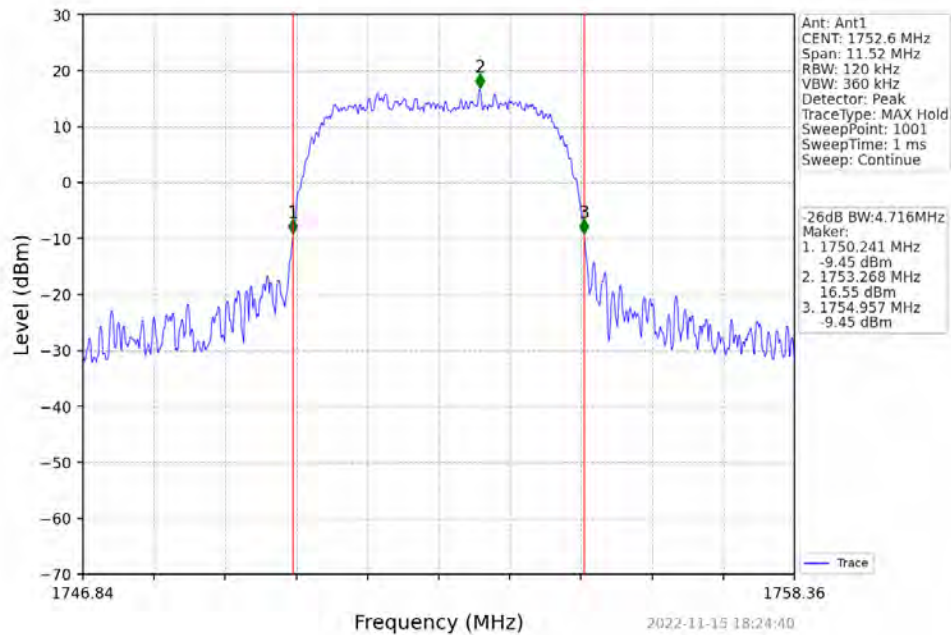
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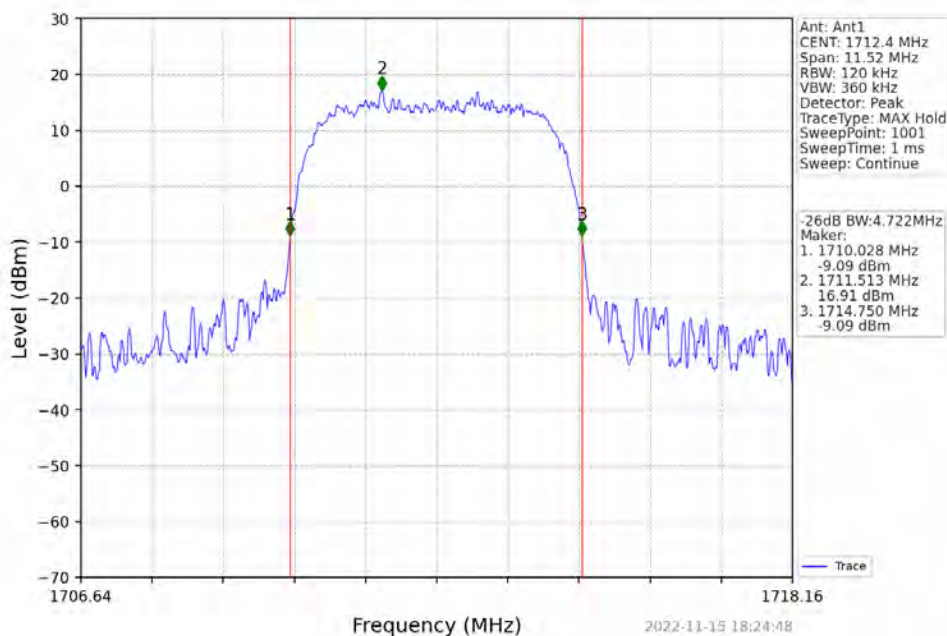
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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



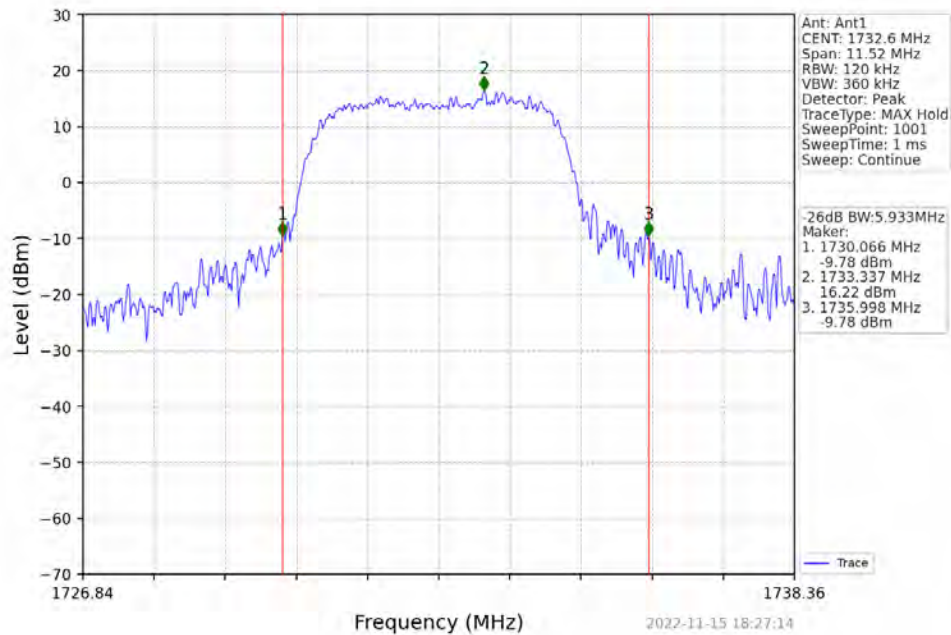
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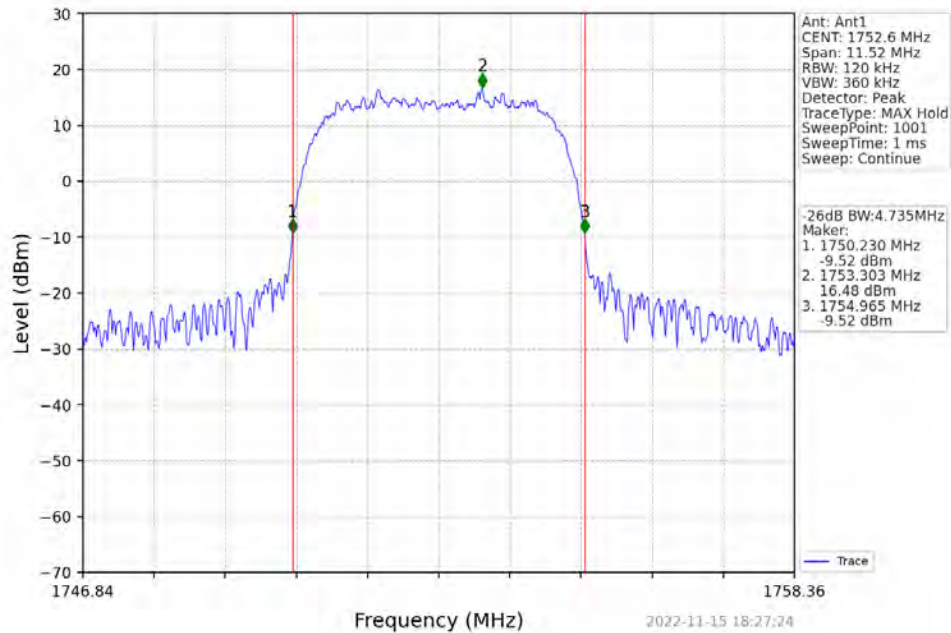
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5. Peak-Average Ratio

5.1 Band4

5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.13	<=13	Pass
			1732.6	3.12	<=13	Pass
			1752.6	3.15	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.65	<=13	Pass
			1732.6	5.67	<=13	Pass
			1752.6	5.68	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.63	<=13	Pass
			1732.6	5.66	<=13	Pass
			1752.6	5.65	<=13	Pass



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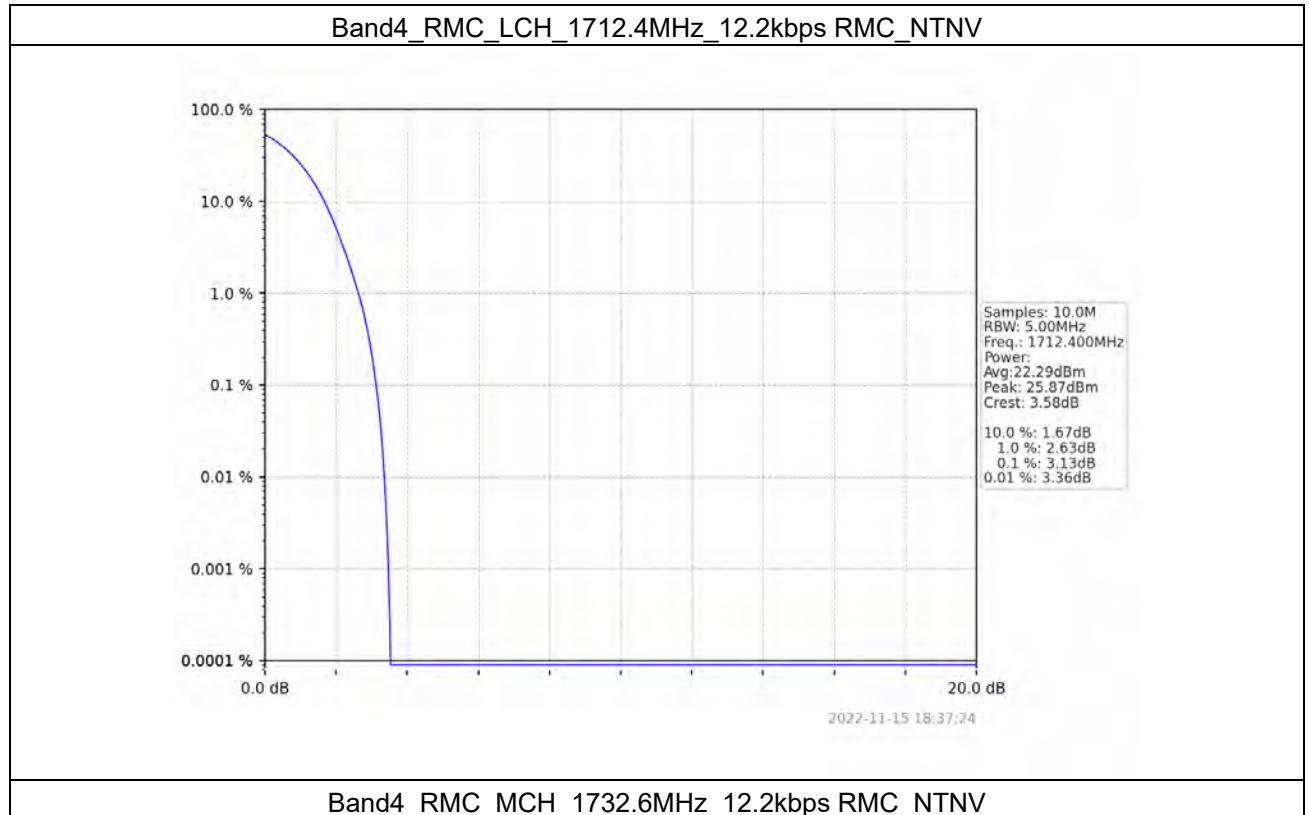
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5.1.2 Test Graph



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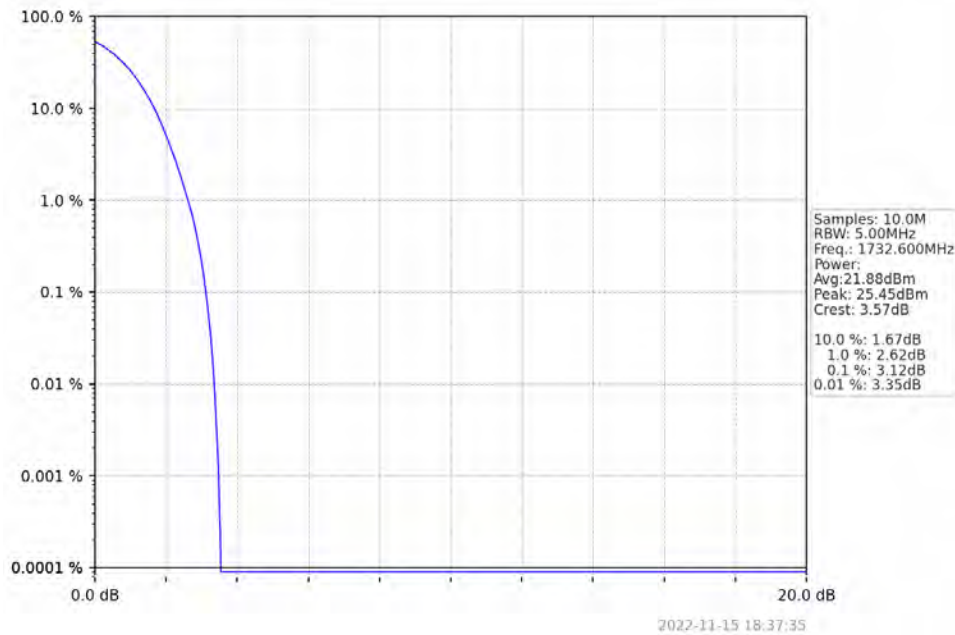
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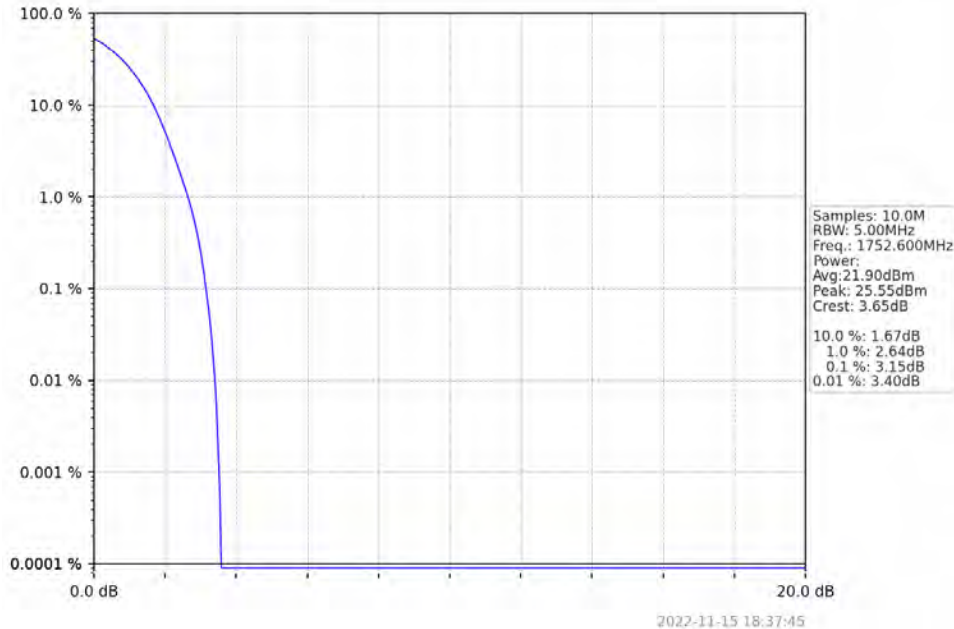
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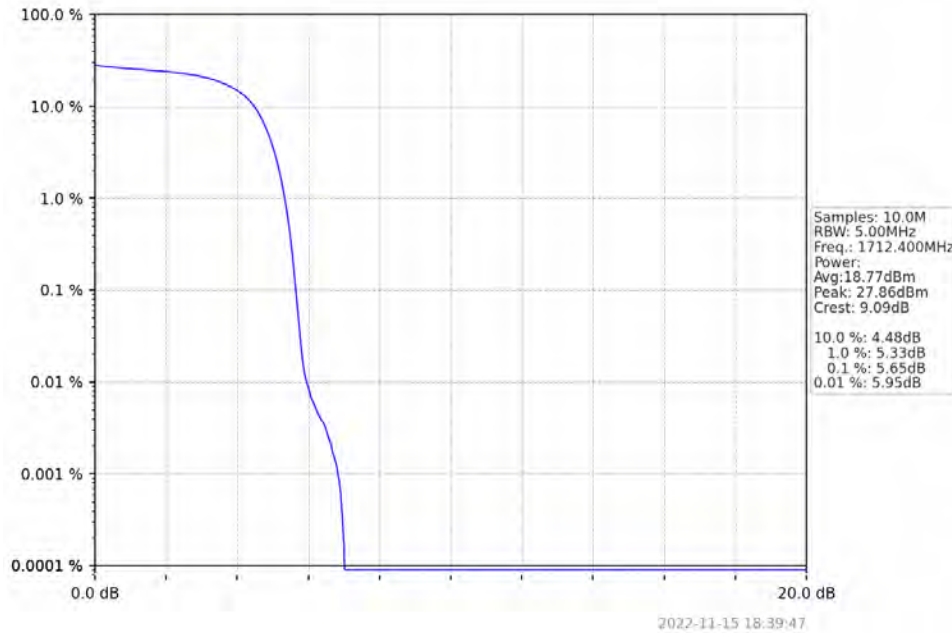
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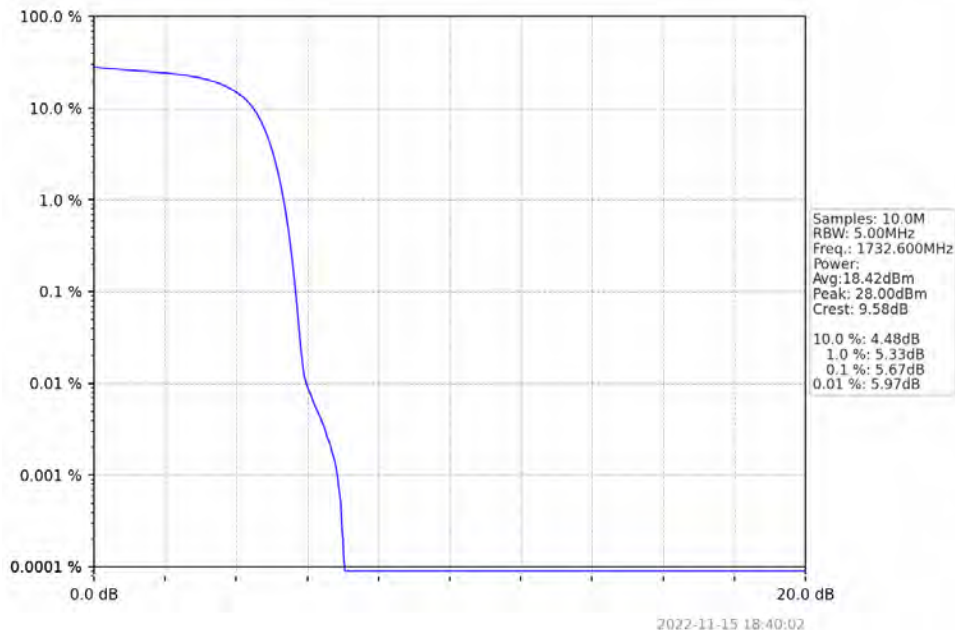




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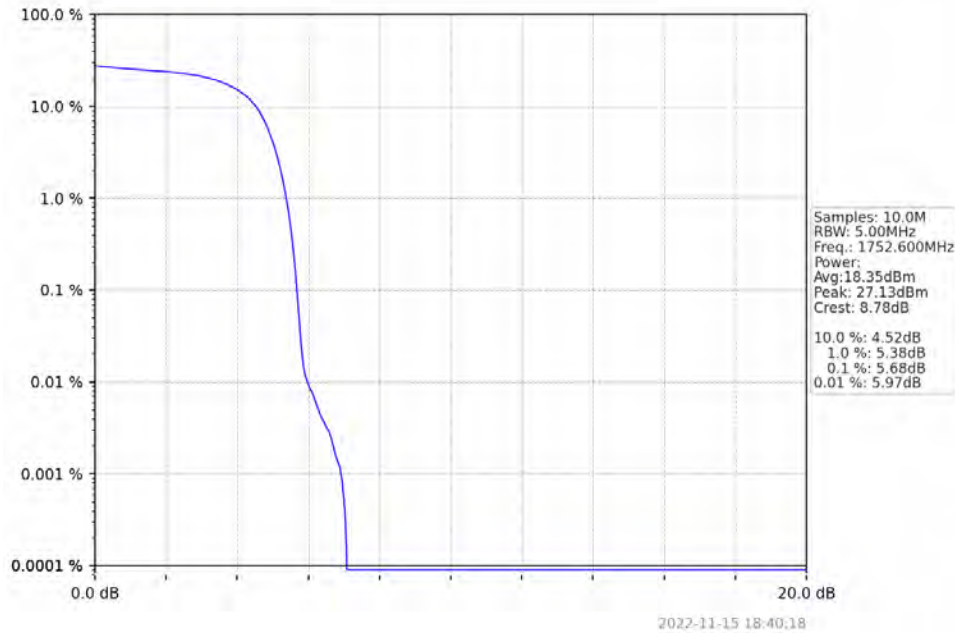
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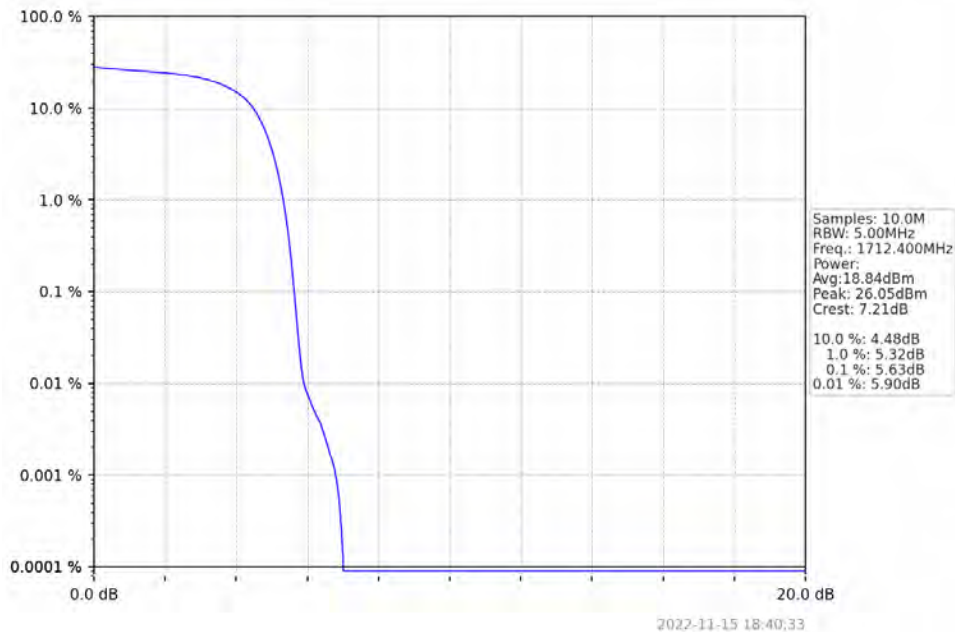
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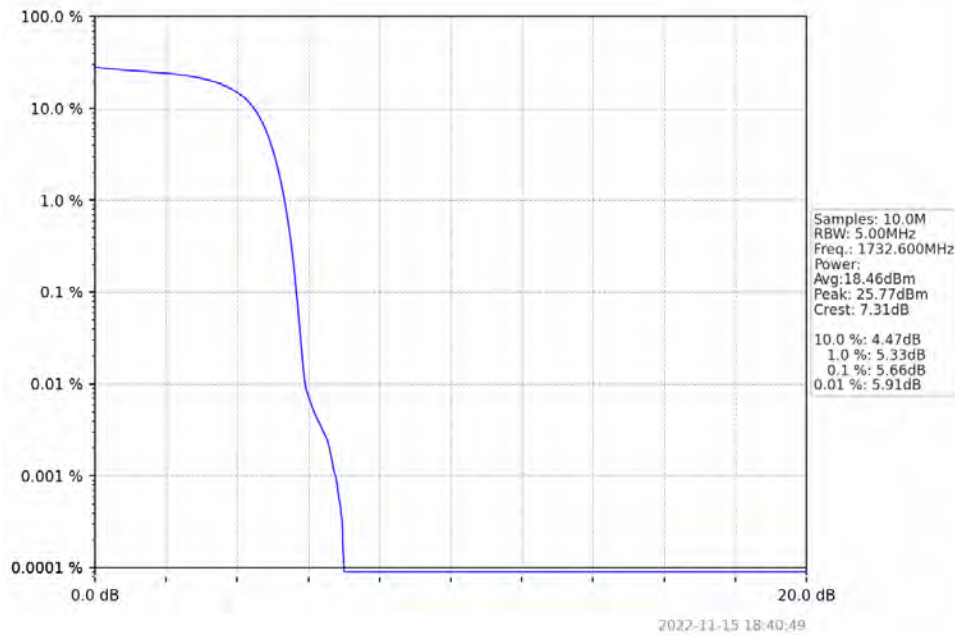


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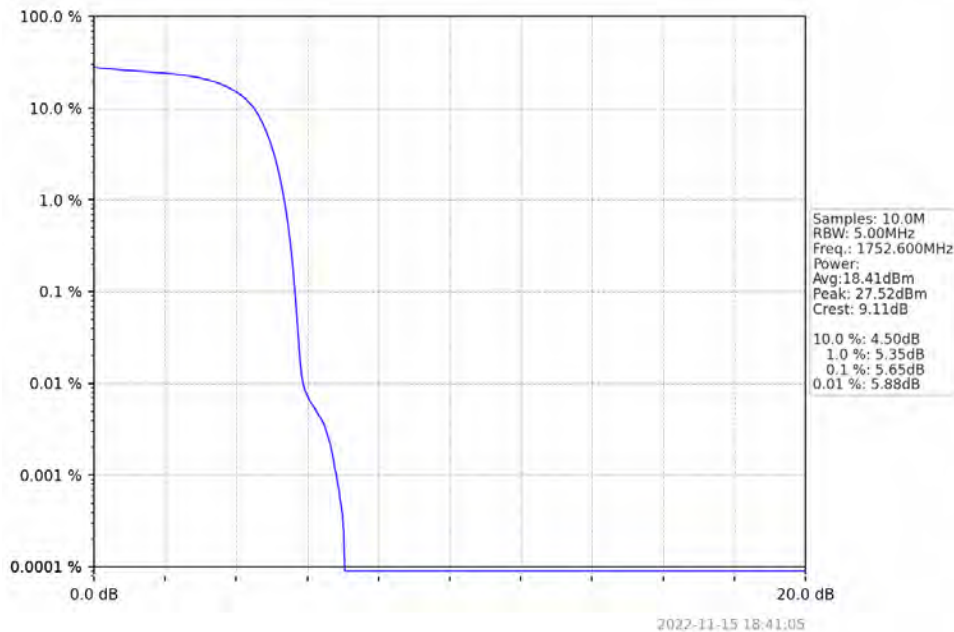
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6. Spurious Emission

6.1 Band4

6.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass



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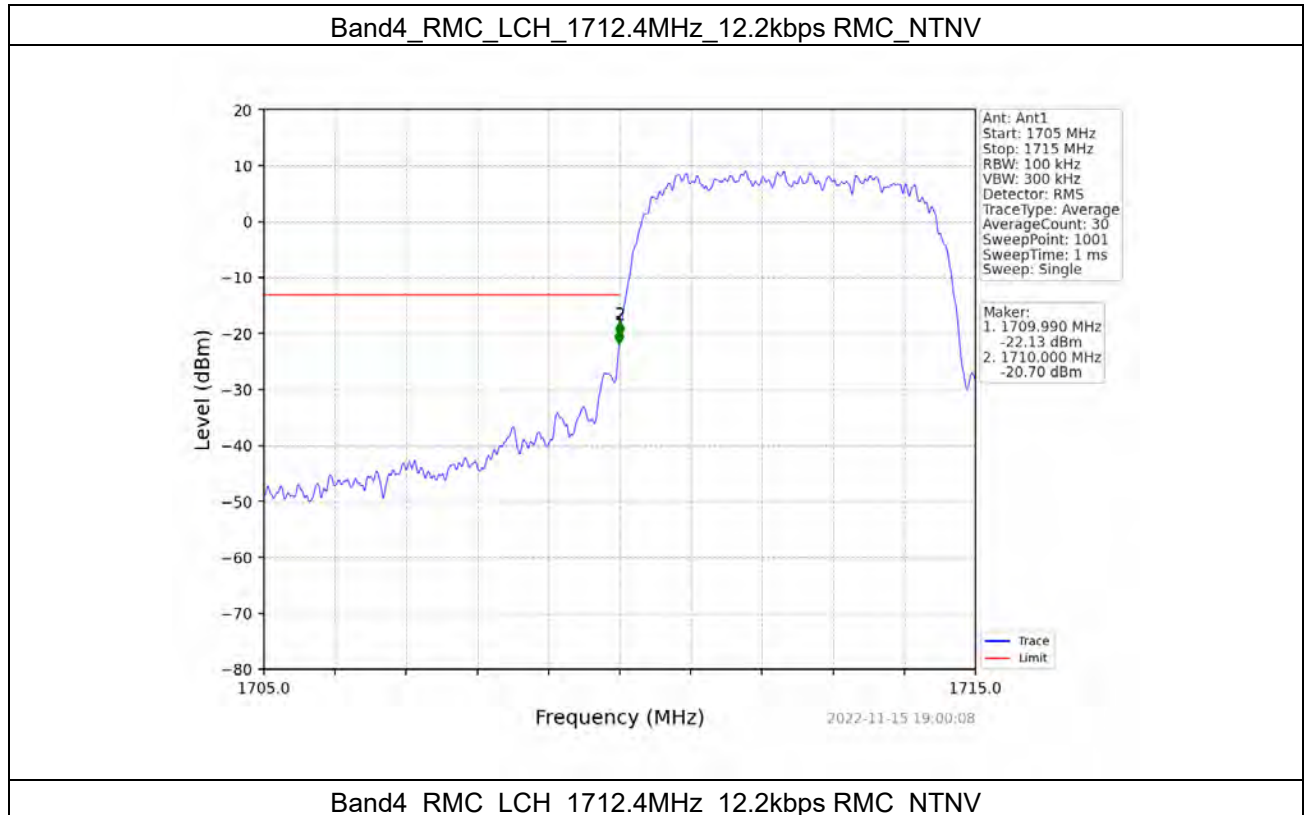
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6.1.2 Test Graph



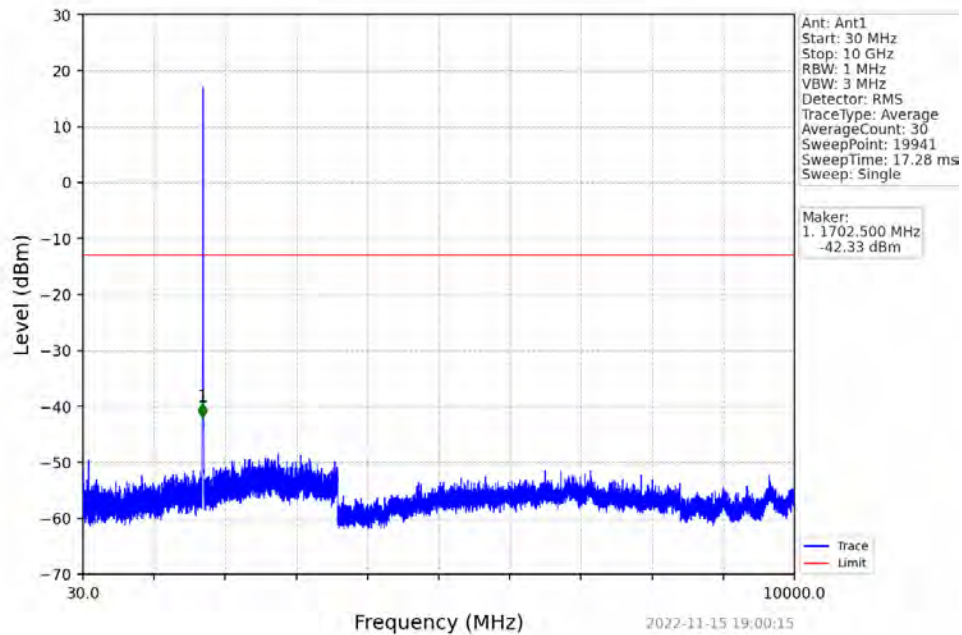
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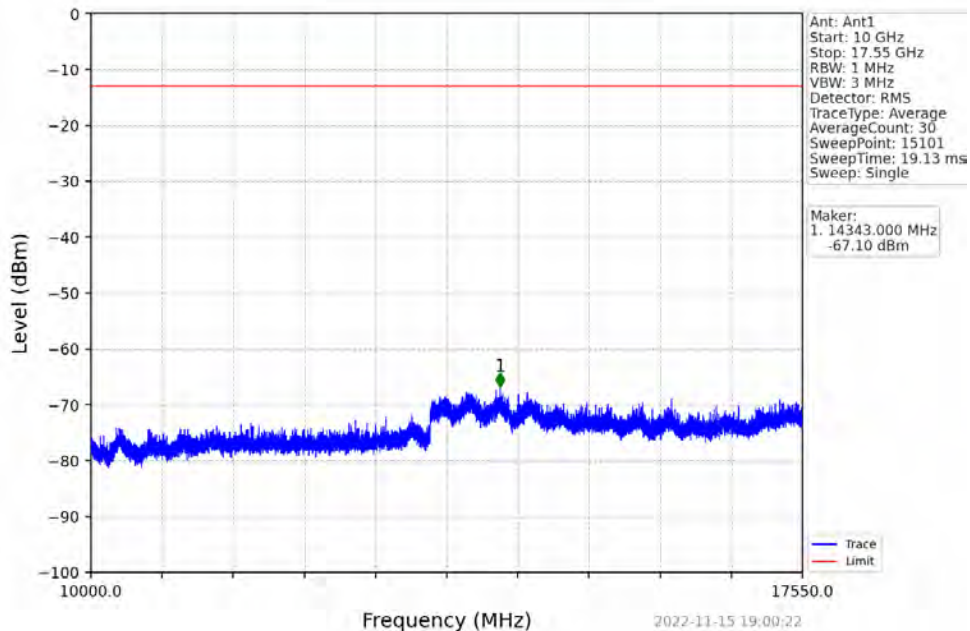
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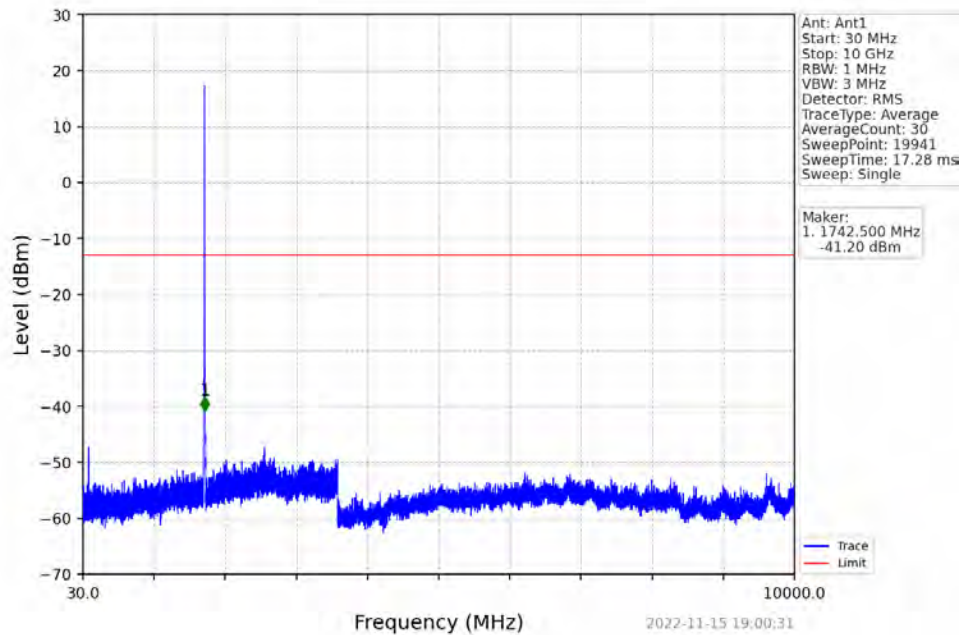
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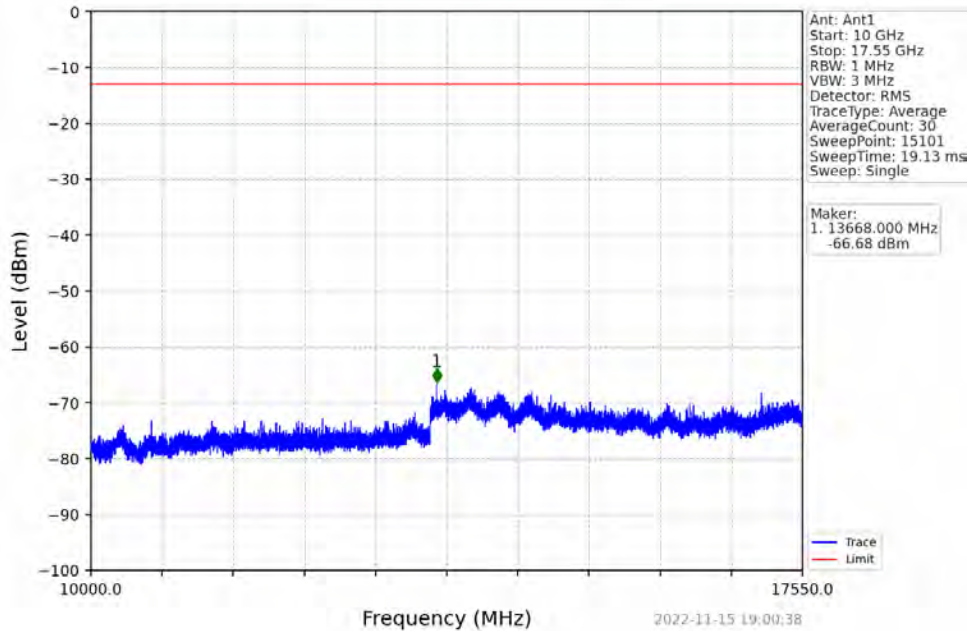
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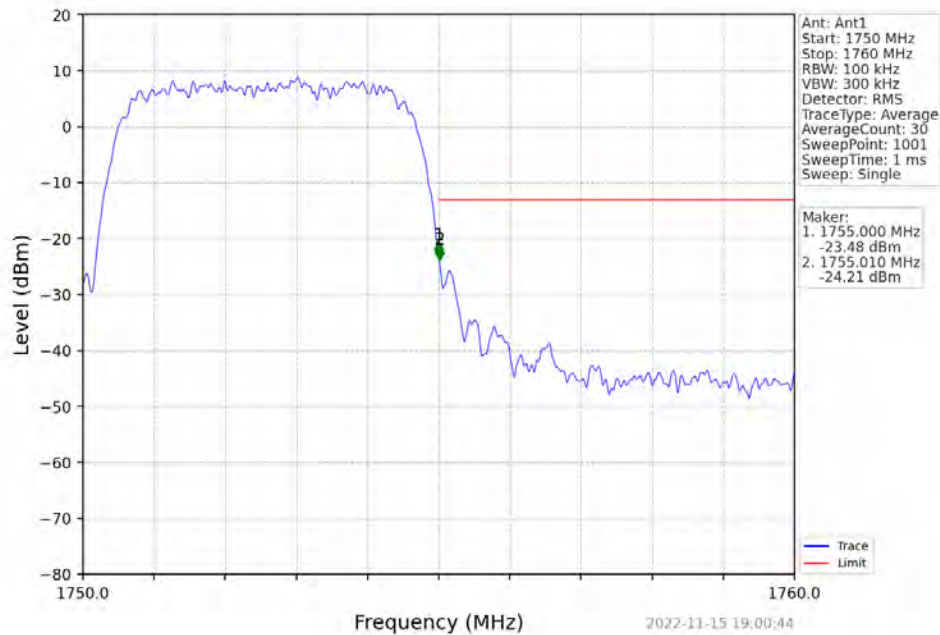
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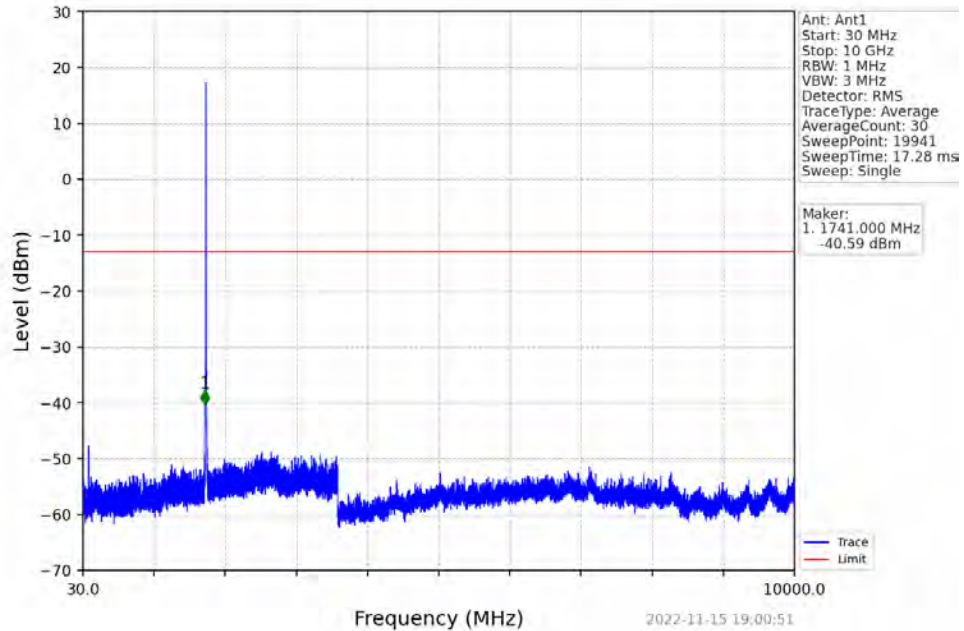
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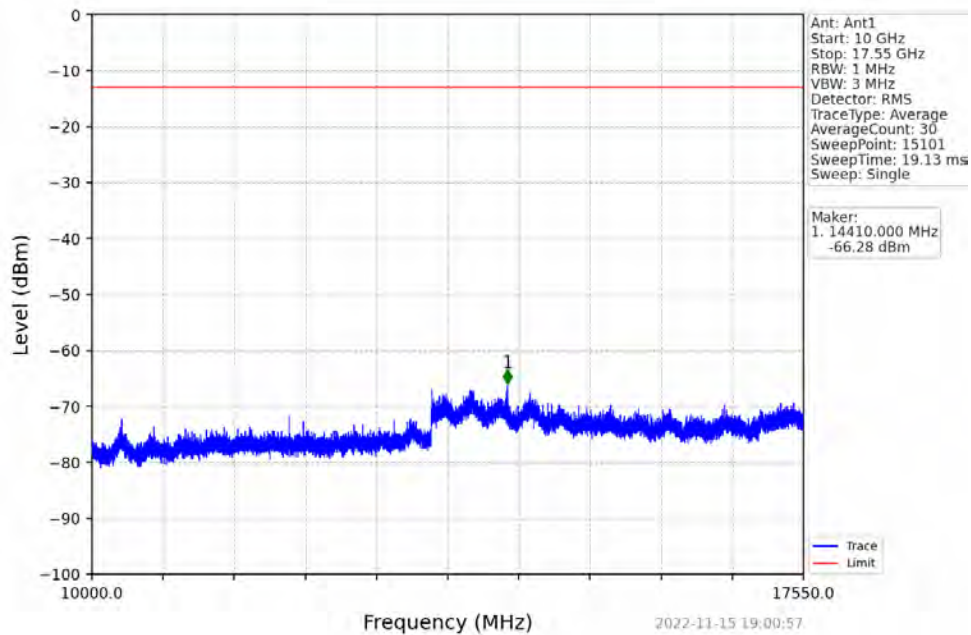
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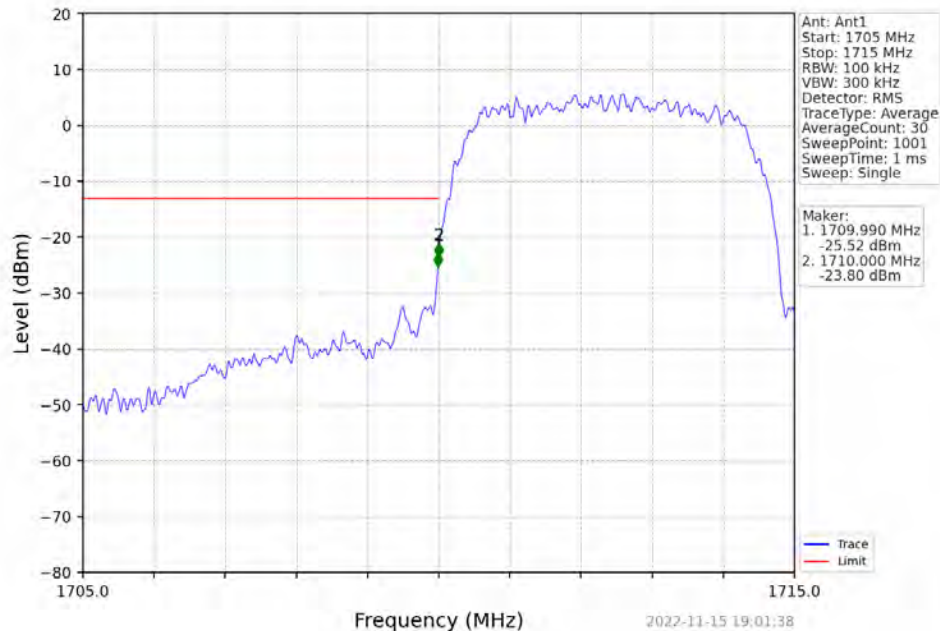
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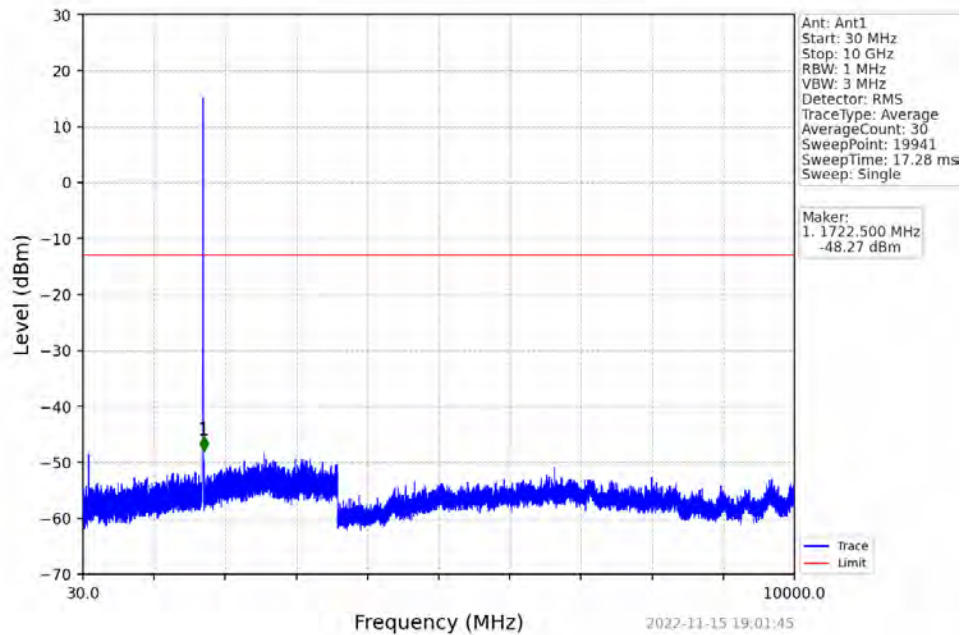
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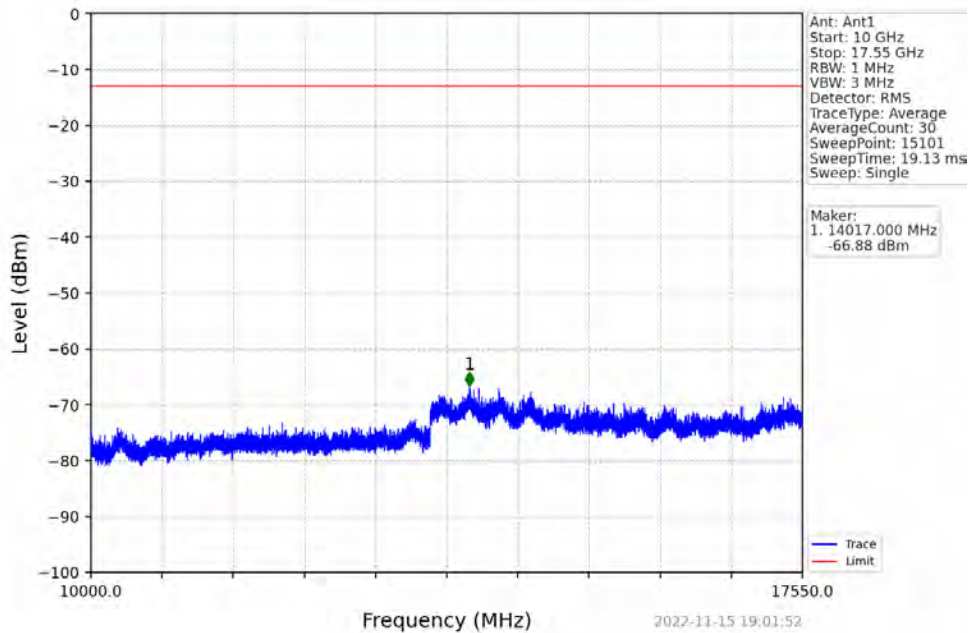
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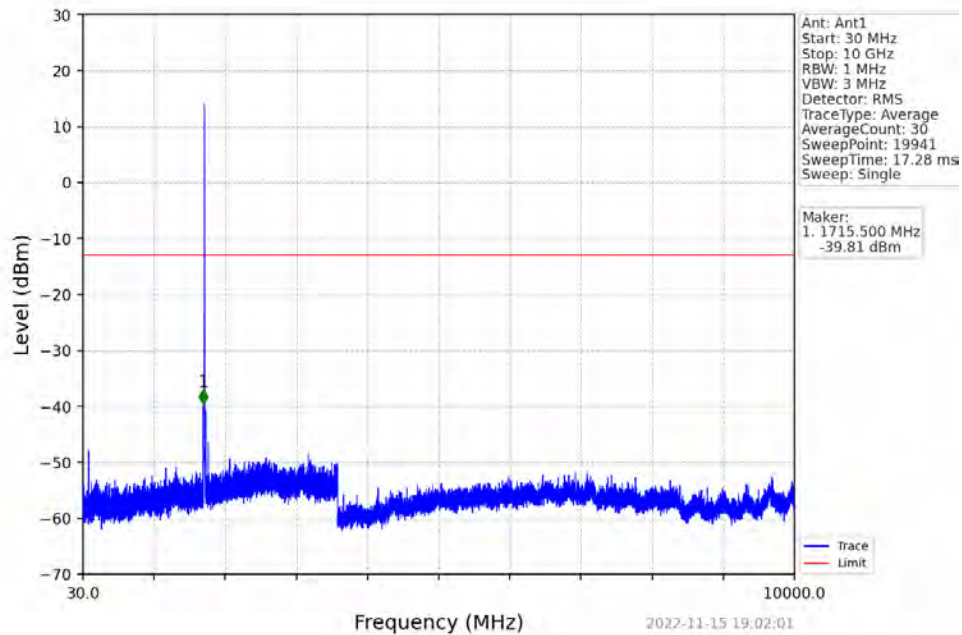
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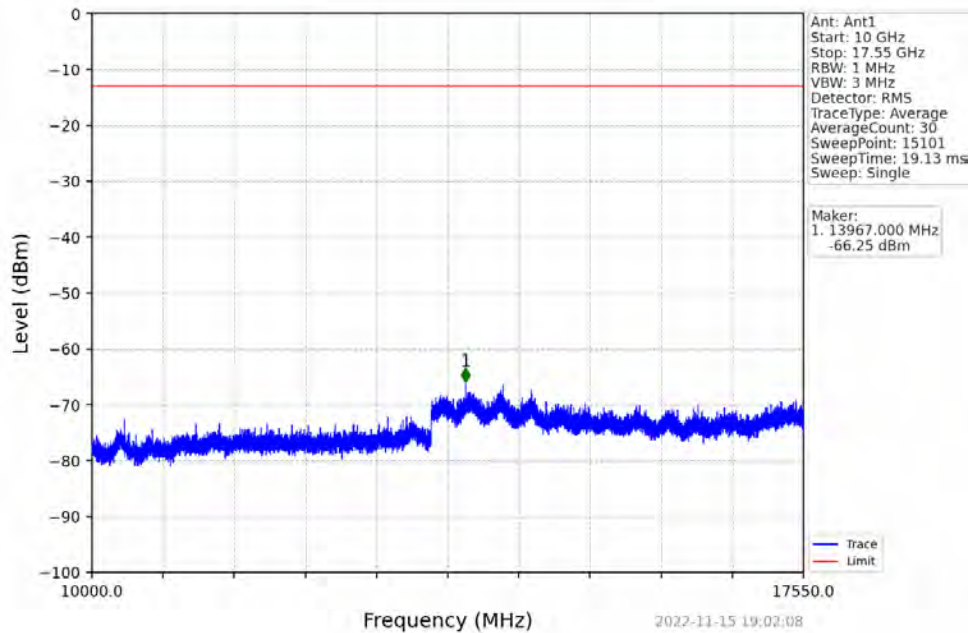
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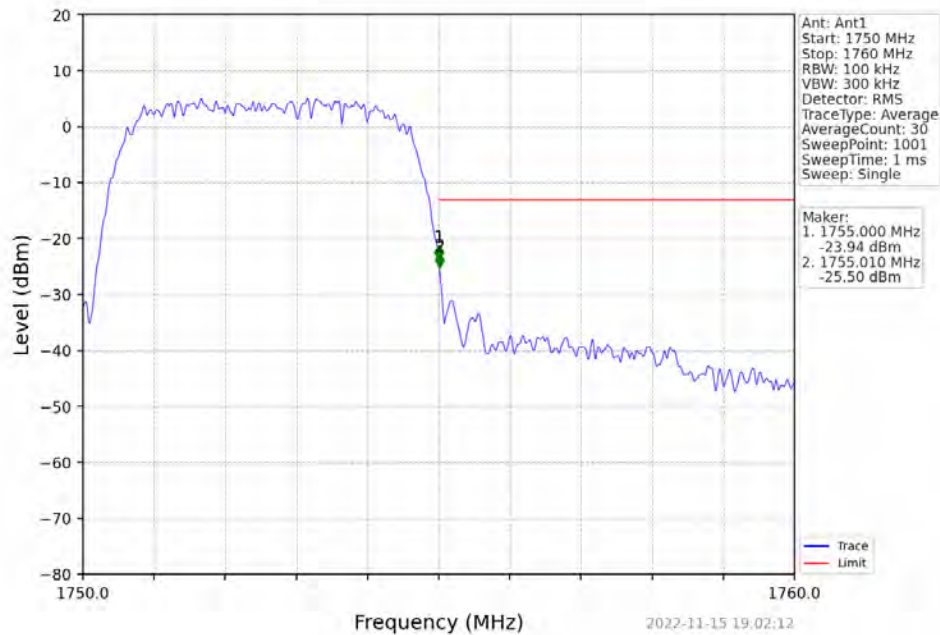
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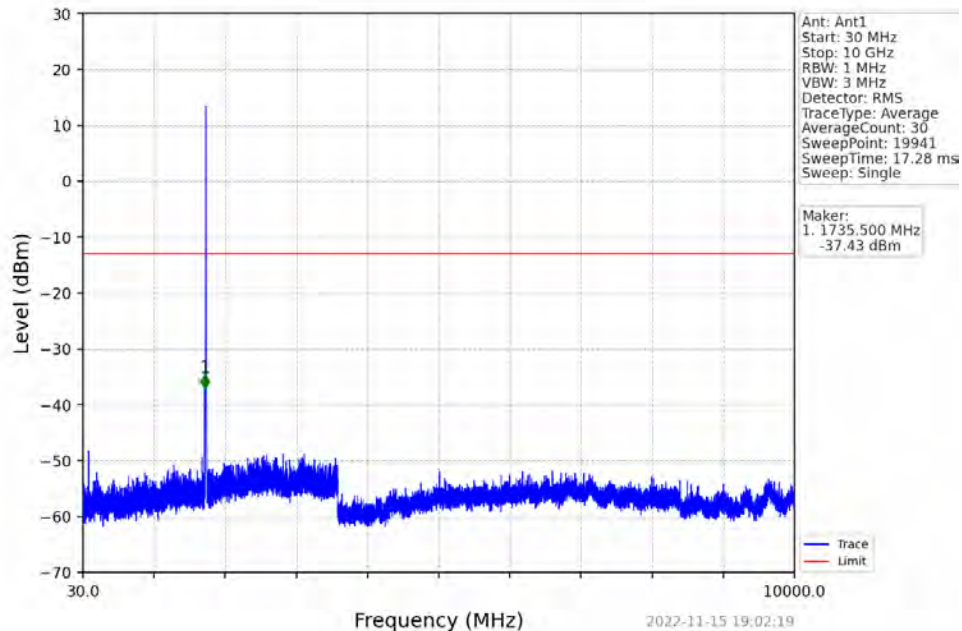
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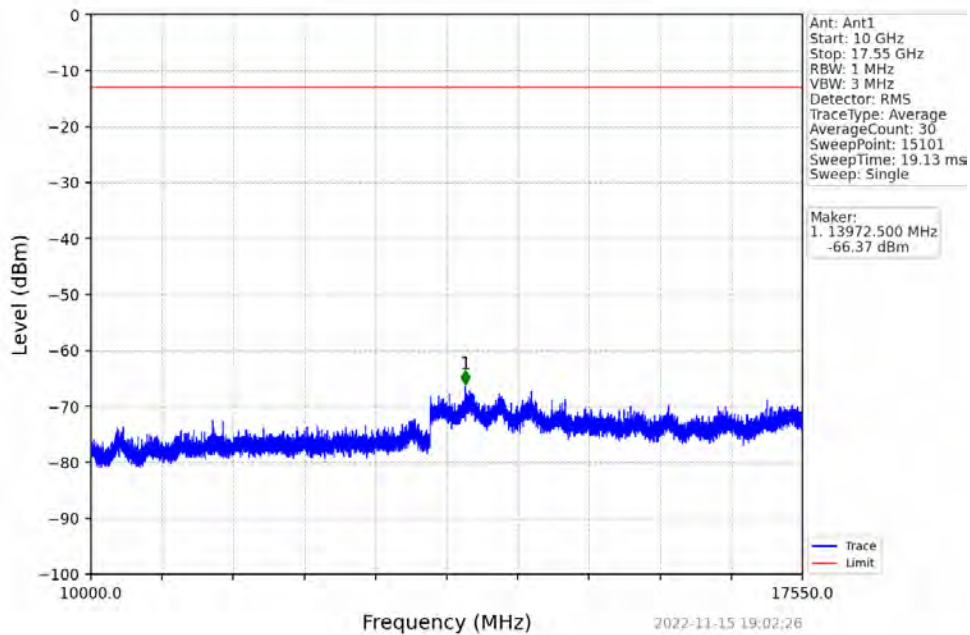
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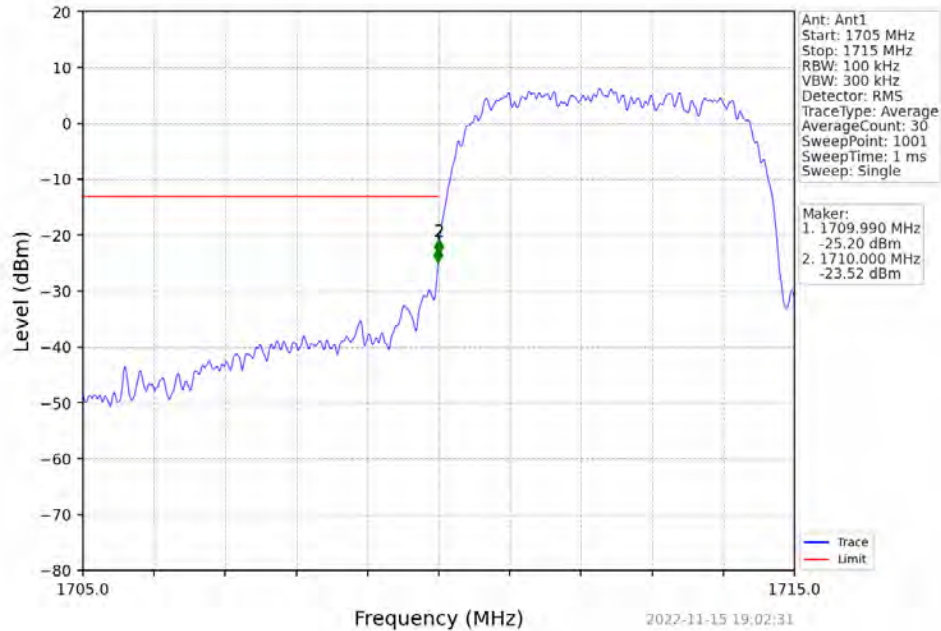
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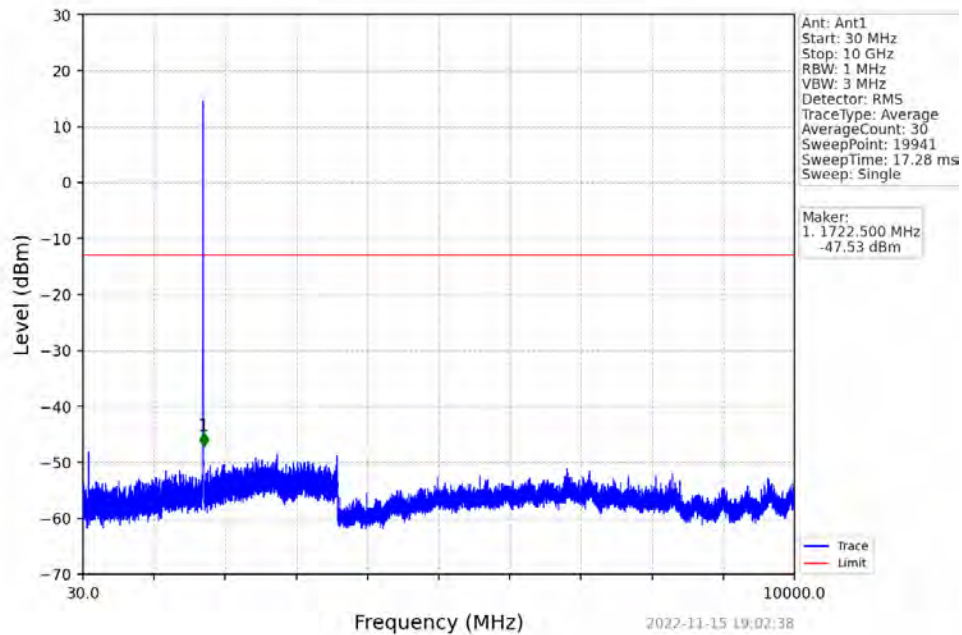
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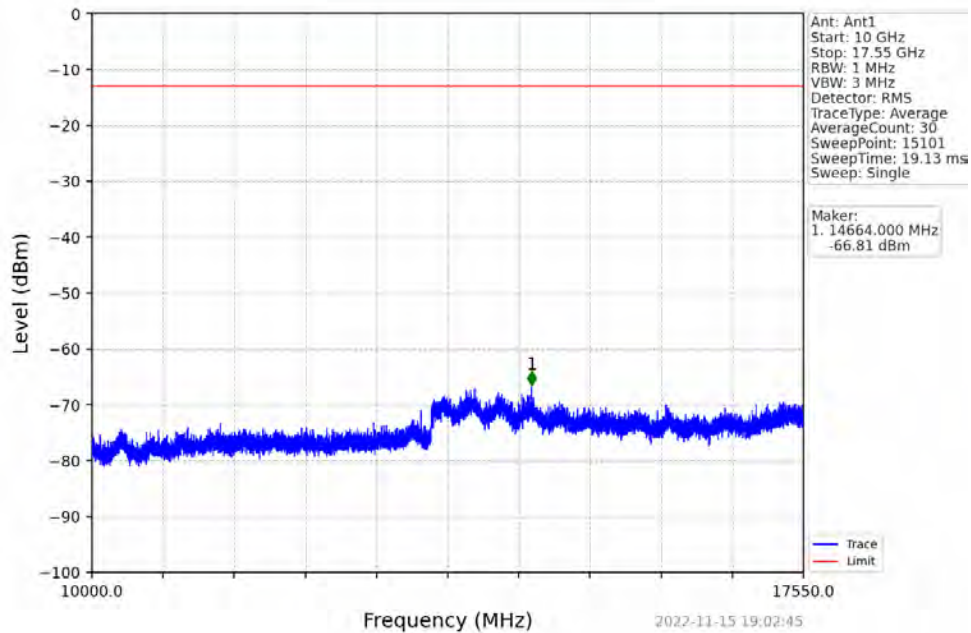
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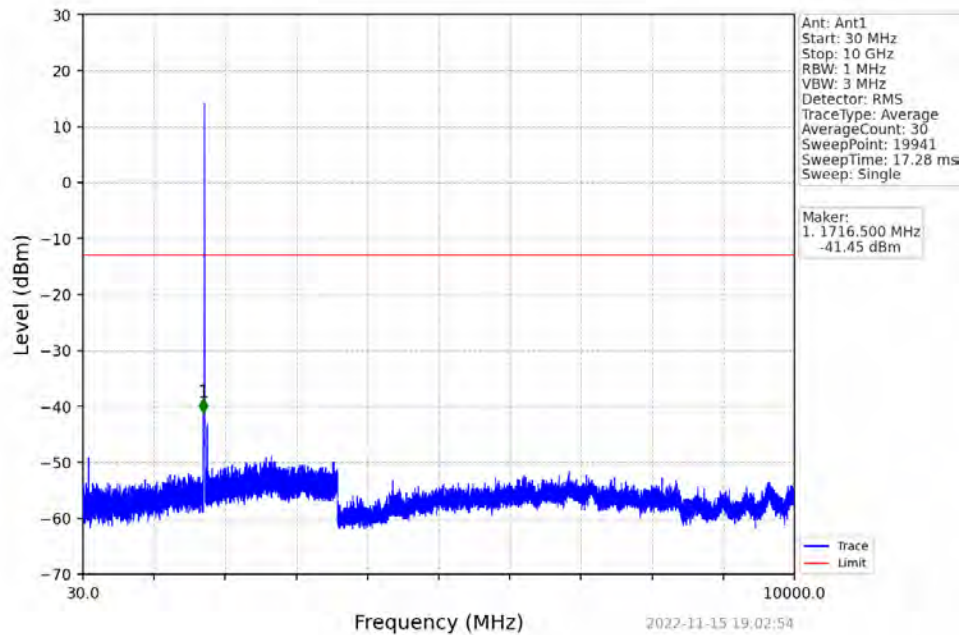
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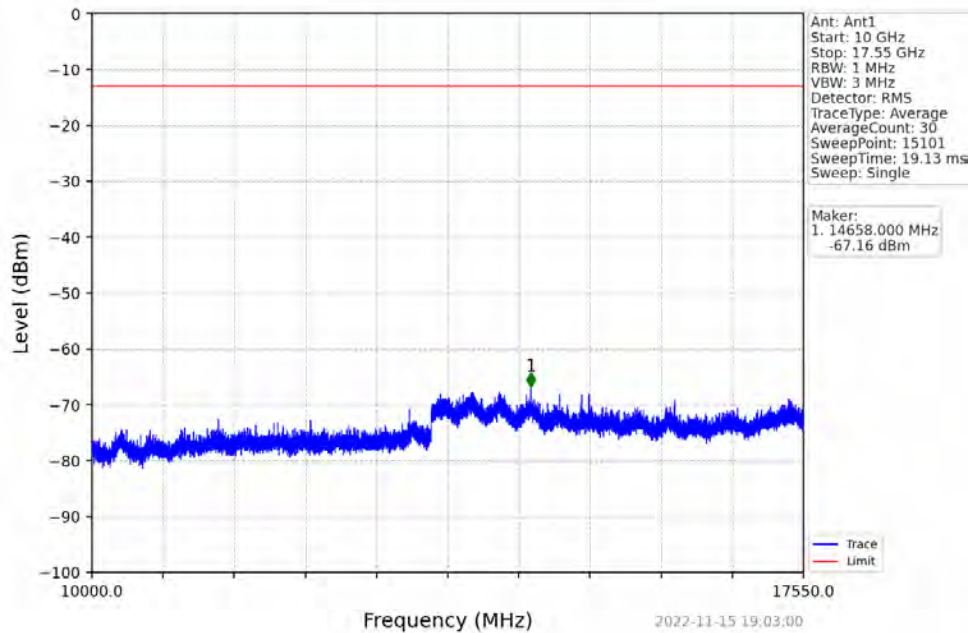
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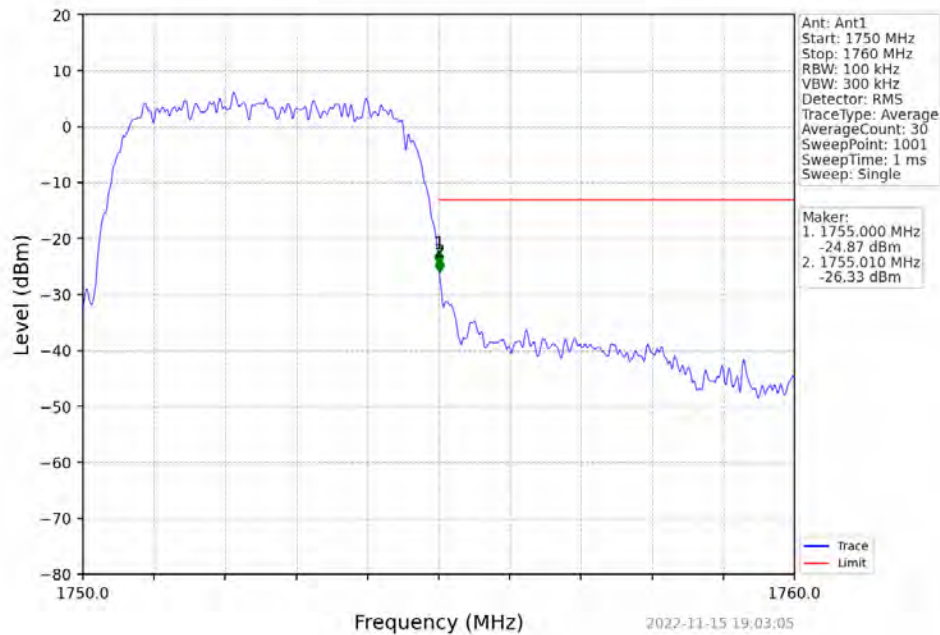
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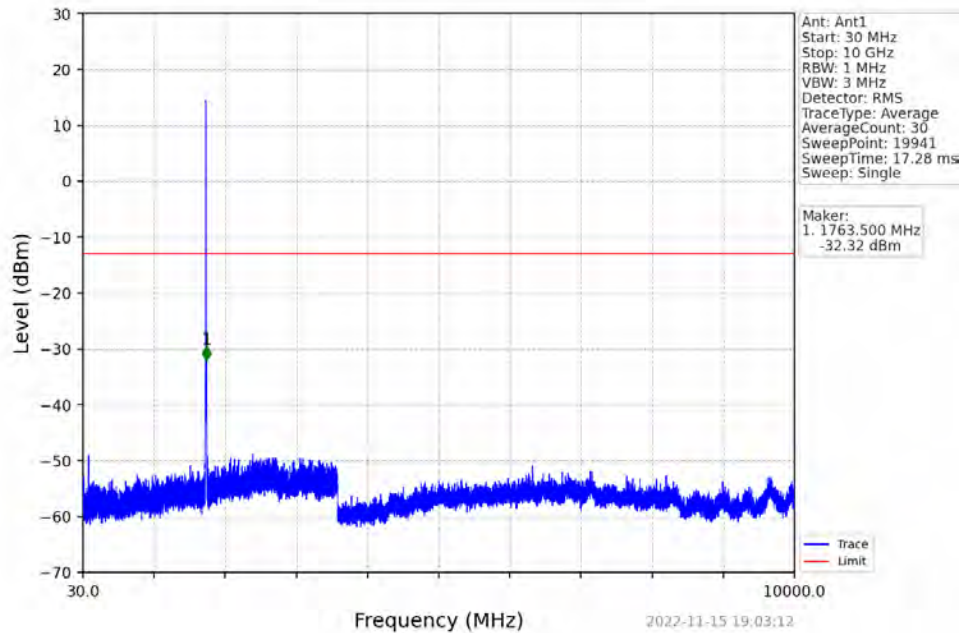
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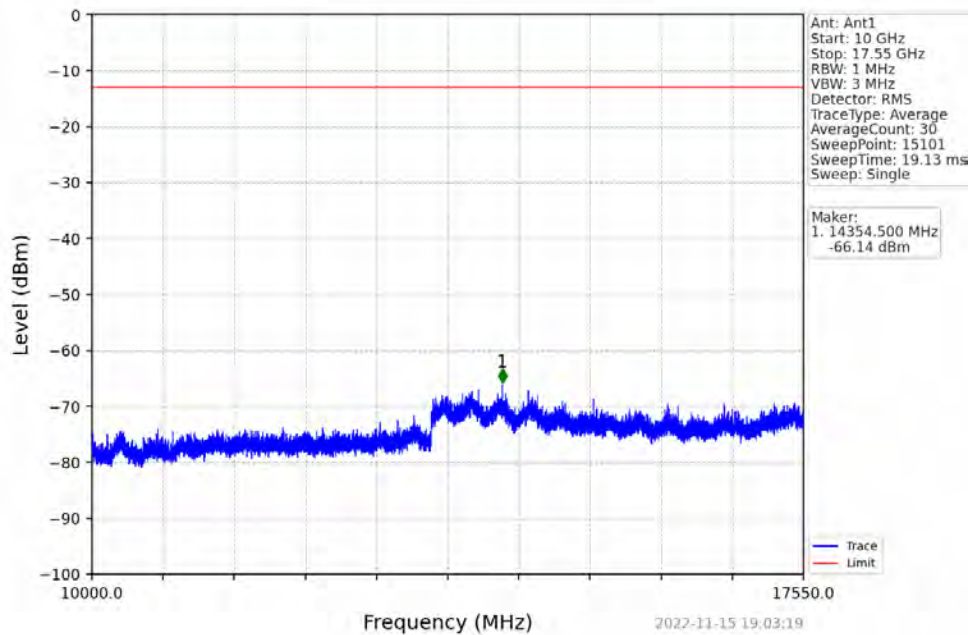
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Appendix for WCDMA Band 5

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band5_ERP

1.1.1 Test Result

Band: 5								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	22.44	0.40	20.69	<=38.45	Pass
			836.6	22.43	0.40	20.68	<=38.45	Pass
			846.6	22.59	0.40	20.84	<=38.45	Pass
	HSDPA	Subtest 1	826.4	20.55	0.40	18.80	<=38.45	Pass
		Subtest 2	826.4	20.56	0.40	18.81	<=38.45	Pass
		Subtest 3	826.4	20.62	0.40	18.87	<=38.45	Pass
		Subtest 4	826.4	20.64	0.40	18.89	<=38.45	Pass
		Subtest 1	836.6	20.61	0.40	18.86	<=38.45	Pass
		Subtest 2	836.6	20.54	0.40	18.79	<=38.45	Pass
		Subtest 3	836.6	20.57	0.40	18.82	<=38.45	Pass
		Subtest 4	836.6	20.62	0.40	18.87	<=38.45	Pass
		Subtest 1	846.6	20.81	0.40	19.06	<=38.45	Pass
		Subtest 2	846.6	20.86	0.40	19.11	<=38.45	Pass
		Subtest 3	846.6	20.88	0.40	19.13	<=38.45	Pass
		Subtest 4	846.6	20.92	0.40	19.17	<=38.45	Pass
	HSUPA	Subtest 1	826.4	19.02	0.40	17.27	<=38.45	Pass
		Subtest 2	826.4	19.08	0.40	17.33	<=38.45	Pass
		Subtest 3	826.4	18.90	0.40	17.15	<=38.45	Pass
		Subtest 4	826.4	19.10	0.40	17.35	<=38.45	Pass
		Subtest 5	826.4	18.96	0.40	17.21	<=38.45	Pass
		Subtest 1	836.6	19.06	0.40	17.31	<=38.45	Pass
		Subtest 2	836.6	19.16	0.40	17.41	<=38.45	Pass
		Subtest 3	836.6	19.18	0.40	17.43	<=38.45	Pass
		Subtest 4	836.6	19.35	0.40	17.60	<=38.45	Pass
		Subtest 5	836.6	19.35	0.40	17.60	<=38.45	Pass
		Subtest 1	846.6	19.22	0.40	17.47	<=38.45	Pass
		Subtest 2	846.6	19.61	0.40	17.86	<=38.45	Pass
		Subtest 3	846.6	19.60	0.40	17.85	<=38.45	Pass



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		Subtest 4	846.6	19.60	0.40	17.85	<=38.45	Pass
		Subtest 5	846.6	19.60	0.40	17.85	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Band5

2.1.1 Test Result

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-0.330	-0.0004	-2.5 to 2.5	Pass
			3.85	-1.059	-0.0013	-2.5 to 2.5	Pass
			4.43	-0.446	-0.0005	-2.5 to 2.5	Pass
		-30	3.85	-0.488	-0.0006	-2.5 to 2.5	Pass
		-20	3.85	-0.562	-0.0007	-2.5 to 2.5	Pass
		-10	3.85	-0.276	-0.0003	-2.5 to 2.5	Pass
		0	3.85	-0.238	-0.0003	-2.5 to 2.5	Pass
		10	3.85	-0.175	-0.0002	-2.5 to 2.5	Pass
		30	3.85	-0.150	-0.0002	-2.5 to 2.5	Pass
		40	3.85	0.098	0.0001	-2.5 to 2.5	Pass
		50	3.85	-0.583	-0.0007	-2.5 to 2.5	Pass
	836.6	20	3.27	-0.229	-0.0003	-2.5 to 2.5	Pass
			3.85	-0.136	-0.0002	-2.5 to 2.5	Pass
			4.43	0.075	0.0001	-2.5 to 2.5	Pass
		-30	3.85	0.145	0.0002	-2.5 to 2.5	Pass
		-20	3.85	-0.028	0.0000	-2.5 to 2.5	Pass
		-10	3.85	-0.011	0.0000	-2.5 to 2.5	Pass
		0	3.85	0.224	0.0003	-2.5 to 2.5	Pass
		10	3.85	0.154	0.0002	-2.5 to 2.5	Pass
		30	3.85	-0.176	-0.0002	-2.5 to 2.5	Pass
		40	3.85	0.177	0.0002	-2.5 to 2.5	Pass
		50	3.85	-0.003	0.0000	-2.5 to 2.5	Pass
	846.6	20	3.27	-0.230	-0.0003	-2.5 to 2.5	Pass
			3.85	-0.365	-0.0004	-2.5 to 2.5	Pass
			4.43	-0.342	-0.0004	-2.5 to 2.5	Pass
		-30	3.85	-0.248	-0.0003	-2.5 to 2.5	Pass
		-20	3.85	-0.606	-0.0007	-2.5 to 2.5	Pass



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HSDPA		-10	3.85	-0.600	-0.0007	-2.5 to 2.5	Pass
		0	3.85	0.162	0.0002	-2.5 to 2.5	Pass
		10	3.85	-0.605	-0.0007	-2.5 to 2.5	Pass
		30	3.85	-0.444	-0.0005	-2.5 to 2.5	Pass
		40	3.85	-0.138	-0.0002	-2.5 to 2.5	Pass
		50	3.85	-0.495	-0.0006	-2.5 to 2.5	Pass
	826.4	20	3.27	1.848	0.0022	-2.5 to 2.5	Pass
			3.85	2.236	0.0027	-2.5 to 2.5	Pass
			4.43	2.169	0.0026	-2.5 to 2.5	Pass
		-30	3.85	2.182	0.0026	-2.5 to 2.5	Pass
		-20	3.85	2.229	0.0027	-2.5 to 2.5	Pass
		-10	3.85	2.403	0.0029	-2.5 to 2.5	Pass
		0	3.85	2.071	0.0025	-2.5 to 2.5	Pass
		10	3.85	1.786	0.0022	-2.5 to 2.5	Pass
		30	3.85	2.014	0.0024	-2.5 to 2.5	Pass
		40	3.85	2.698	0.0033	-2.5 to 2.5	Pass
		50	3.85	2.599	0.0031	-2.5 to 2.5	Pass
	836.6	20	3.27	2.360	0.0028	-2.5 to 2.5	Pass
			3.85	2.691	0.0032	-2.5 to 2.5	Pass
			4.43	2.581	0.0031	-2.5 to 2.5	Pass
		-30	3.85	2.649	0.0032	-2.5 to 2.5	Pass
		-20	3.85	2.391	0.0029	-2.5 to 2.5	Pass
		-10	3.85	2.745	0.0033	-2.5 to 2.5	Pass
		0	3.85	2.290	0.0027	-2.5 to 2.5	Pass
		10	3.85	2.453	0.0029	-2.5 to 2.5	Pass
		30	3.85	2.980	0.0036	-2.5 to 2.5	Pass
		40	3.85	2.087	0.0025	-2.5 to 2.5	Pass
		50	3.85	1.713	0.0020	-2.5 to 2.5	Pass
	846.6	20	3.27	2.575	0.0030	-2.5 to 2.5	Pass
			3.85	2.408	0.0028	-2.5 to 2.5	Pass
			4.43	2.461	0.0029	-2.5 to 2.5	Pass
		-30	3.85	2.008	0.0024	-2.5 to 2.5	Pass
		-20	3.85	2.219	0.0026	-2.5 to 2.5	Pass
		-10	3.85	2.293	0.0027	-2.5 to 2.5	Pass
		0	3.85	2.345	0.0028	-2.5 to 2.5	Pass
		10	3.85	2.542	0.0030	-2.5 to 2.5	Pass
		30	3.85	2.000	0.0024	-2.5 to 2.5	Pass
		40	3.85	2.048	0.0024	-2.5 to 2.5	Pass
		50	3.85	2.290	0.0027	-2.5 to 2.5	Pass



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HSUPA	826.4	20	3.27	-0.110	-0.0001	-2.5 to 2.5	Pass
			3.85	0.199	0.0002	-2.5 to 2.5	Pass
			4.43	-0.086	-0.0001	-2.5 to 2.5	Pass
		-30	3.85	-0.262	-0.0003	-2.5 to 2.5	Pass
		-20	3.85	0.204	0.0002	-2.5 to 2.5	Pass
		-10	3.85	0.269	0.0003	-2.5 to 2.5	Pass
		0	3.85	0.302	0.0004	-2.5 to 2.5	Pass
		10	3.85	0.190	0.0002	-2.5 to 2.5	Pass
		30	3.85	0.280	0.0003	-2.5 to 2.5	Pass
		40	3.85	0.545	0.0007	-2.5 to 2.5	Pass
		50	3.85	0.133	0.0002	-2.5 to 2.5	Pass
	836.6	20	3.27	3.087	0.0037	-2.5 to 2.5	Pass
			3.85	4.868	0.0058	-2.5 to 2.5	Pass
			4.43	4.957	0.0059	-2.5 to 2.5	Pass
		-30	3.85	4.372	0.0052	-2.5 to 2.5	Pass
		-20	3.85	5.302	0.0063	-2.5 to 2.5	Pass
		-10	3.85	4.595	0.0055	-2.5 to 2.5	Pass
		0	3.85	5.213	0.0062	-2.5 to 2.5	Pass
		10	3.85	5.377	0.0064	-2.5 to 2.5	Pass
		30	3.85	5.471	0.0065	-2.5 to 2.5	Pass
		40	3.85	4.990	0.0060	-2.5 to 2.5	Pass
		50	3.85	5.030	0.0060	-2.5 to 2.5	Pass
	846.6	20	3.27	-0.080	-0.0001	-2.5 to 2.5	Pass
			3.85	0.165	0.0002	-2.5 to 2.5	Pass
			4.43	0.753	0.0009	-2.5 to 2.5	Pass
		-30	3.85	0.207	0.0002	-2.5 to 2.5	Pass
		-20	3.85	0.098	0.0001	-2.5 to 2.5	Pass
		-10	3.85	-0.505	-0.0006	-2.5 to 2.5	Pass
		0	3.85	0.373	0.0004	-2.5 to 2.5	Pass
		10	3.85	0.951	0.0011	-2.5 to 2.5	Pass
		30	3.85	-0.298	-0.0004	-2.5 to 2.5	Pass
		40	3.85	0.453	0.0005	-2.5 to 2.5	Pass
		50	3.85	0.547	0.0006	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band5

3.1.1 Test Result



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Report No.: SHCR220800179402
Page: 154 of 203

Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass



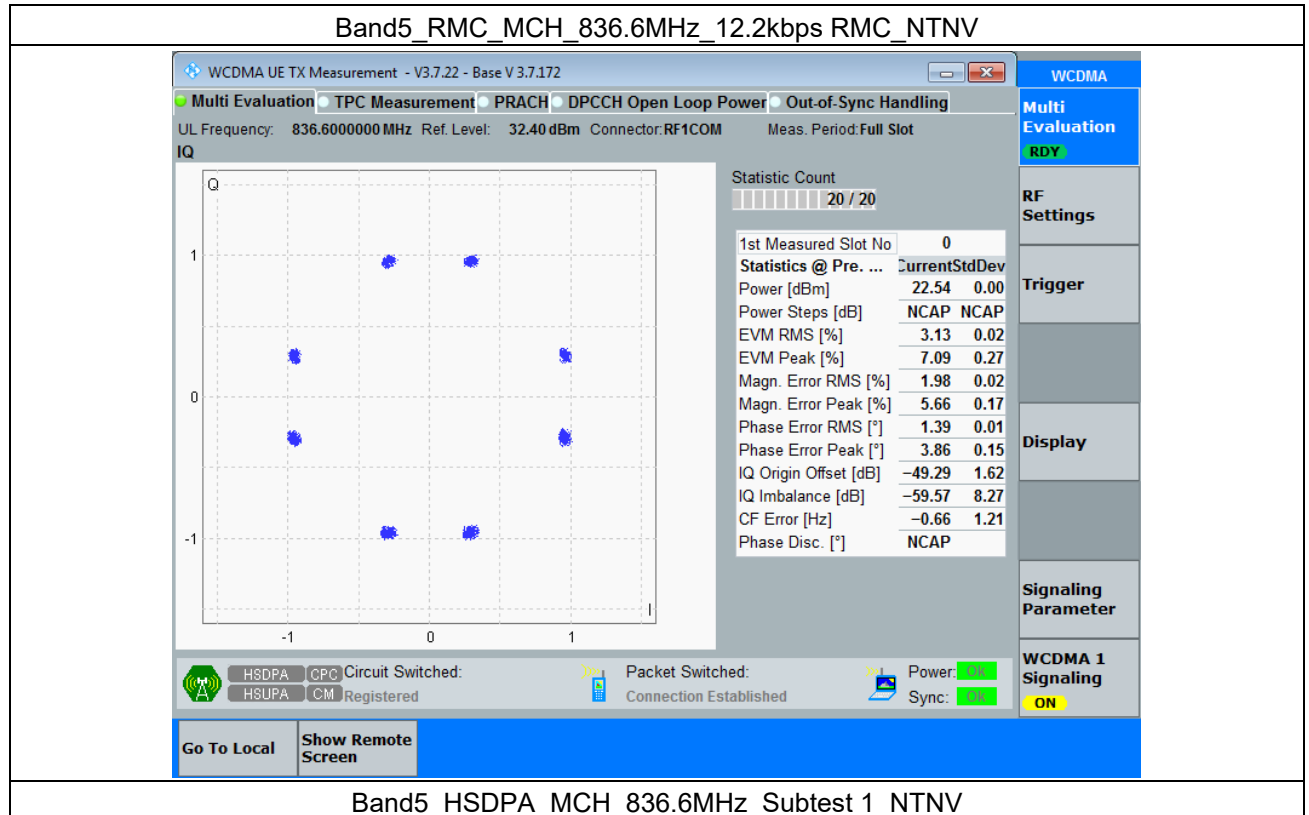
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3.1.2 Test Graph



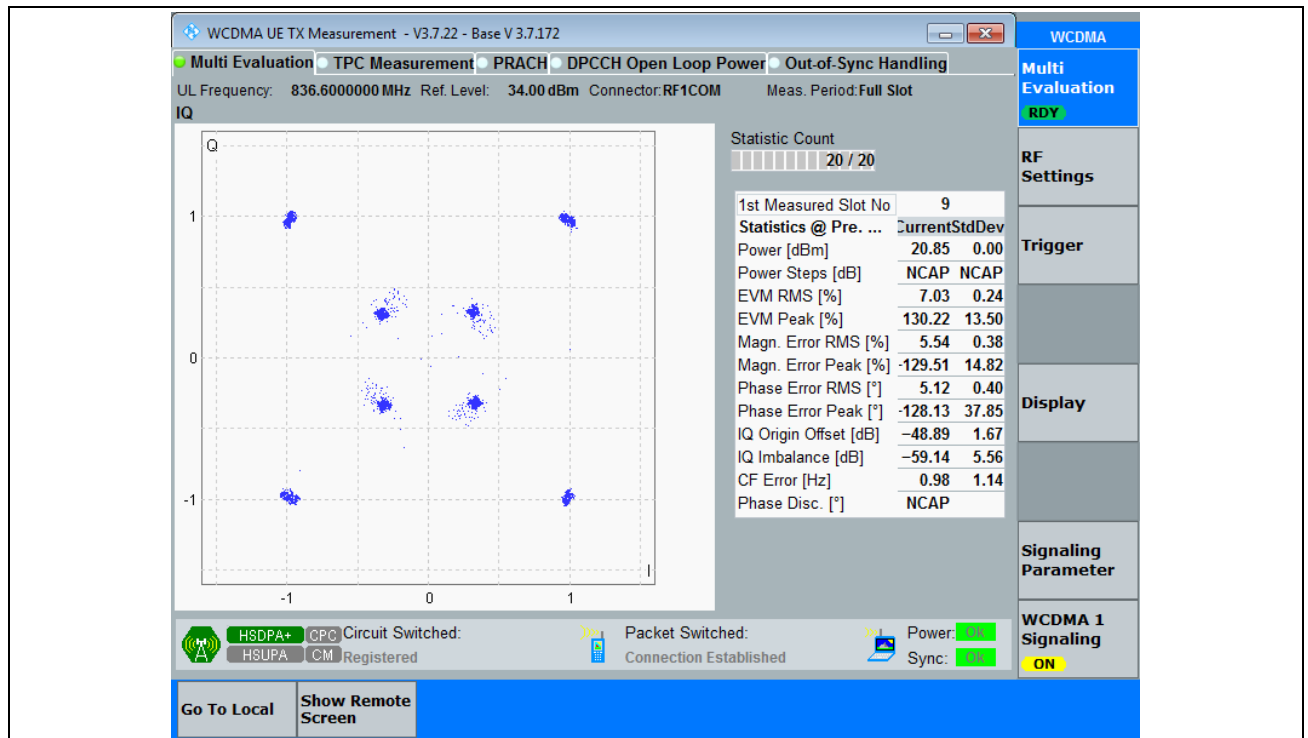
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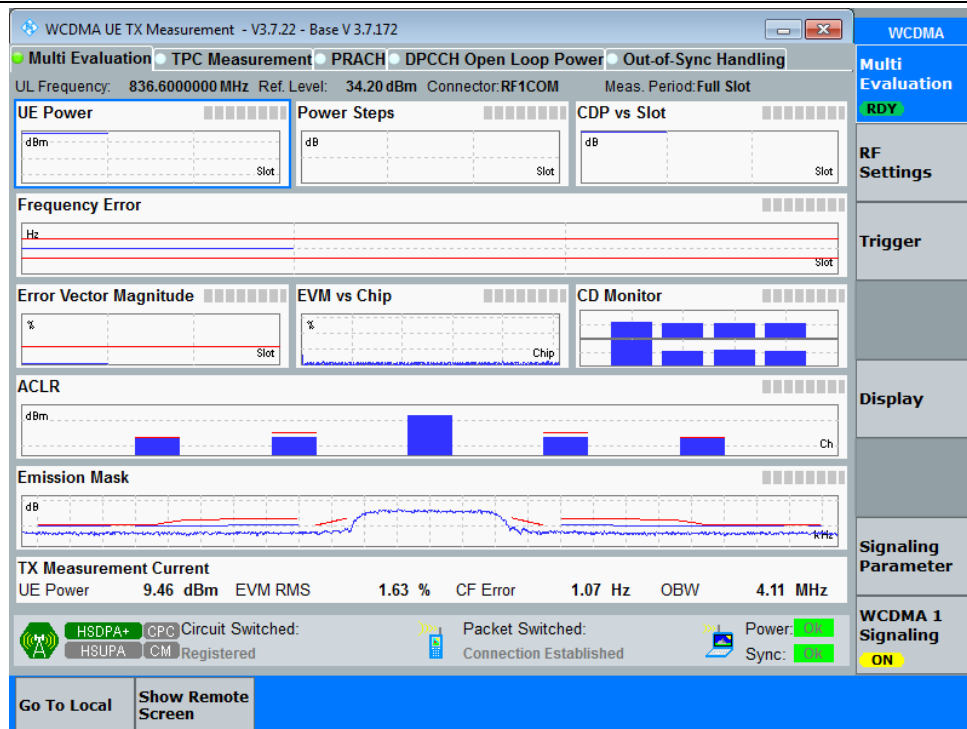
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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4. 99% & 26dB Bandwidth

4.1 Band5_OBW

4.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.144	Pass
			836.6	4.140	Pass
			846.6	4.124	Pass
	HSDPA	Subtest 1	826.4	4.274	Pass
			836.6	4.205	Pass
			846.6	4.204	Pass
	HSUPA	Subtest 1	826.4	4.230	Pass
			836.6	4.238	Pass
			846.6	4.207	Pass



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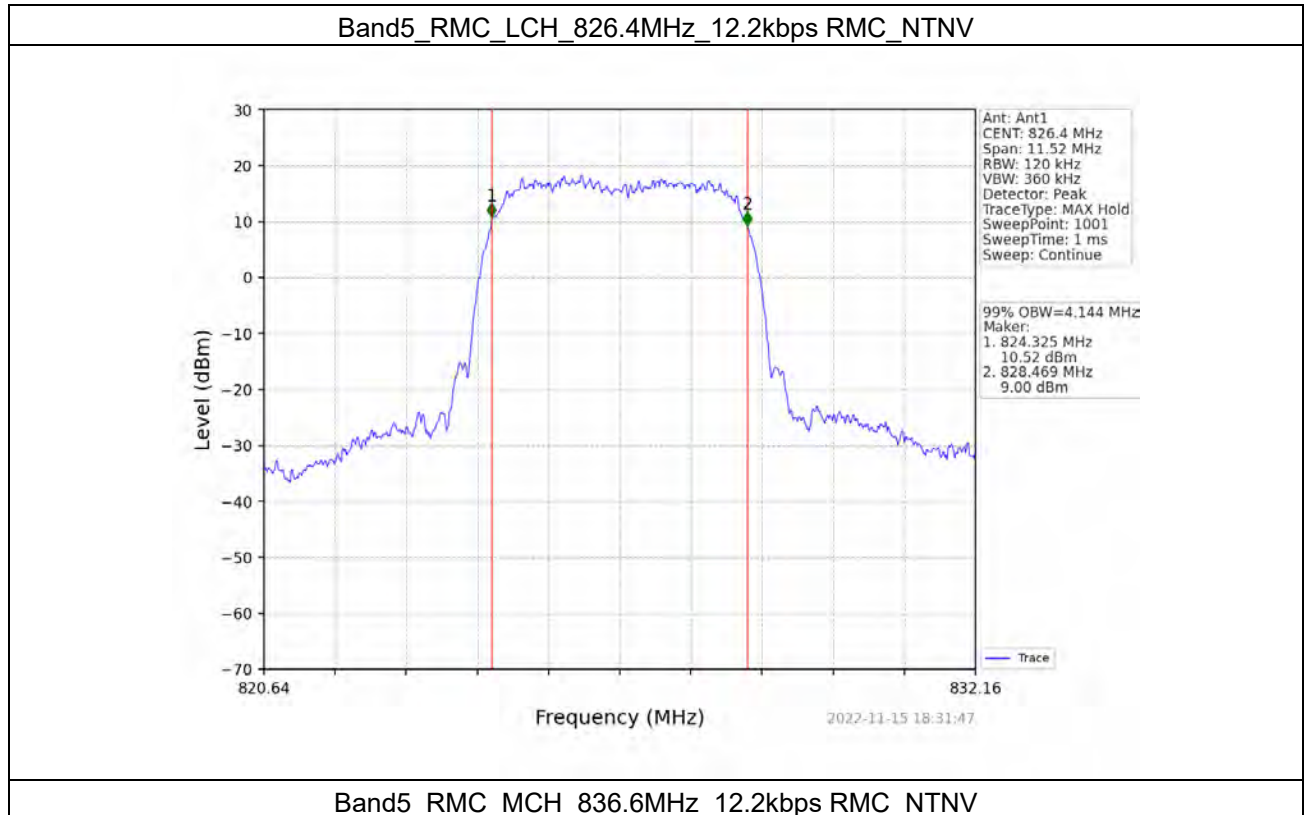
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4.1.2 Test Graph



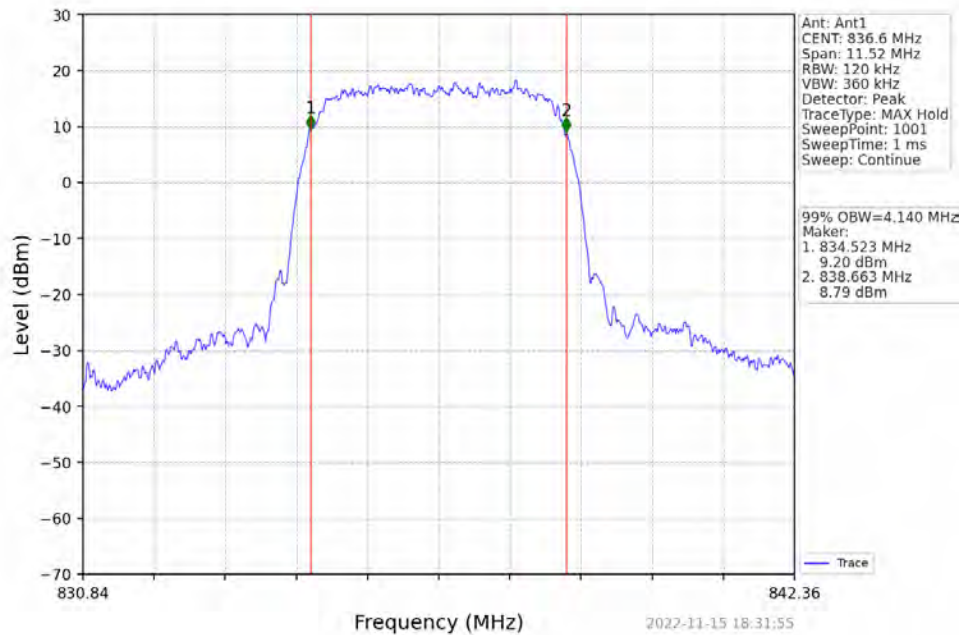
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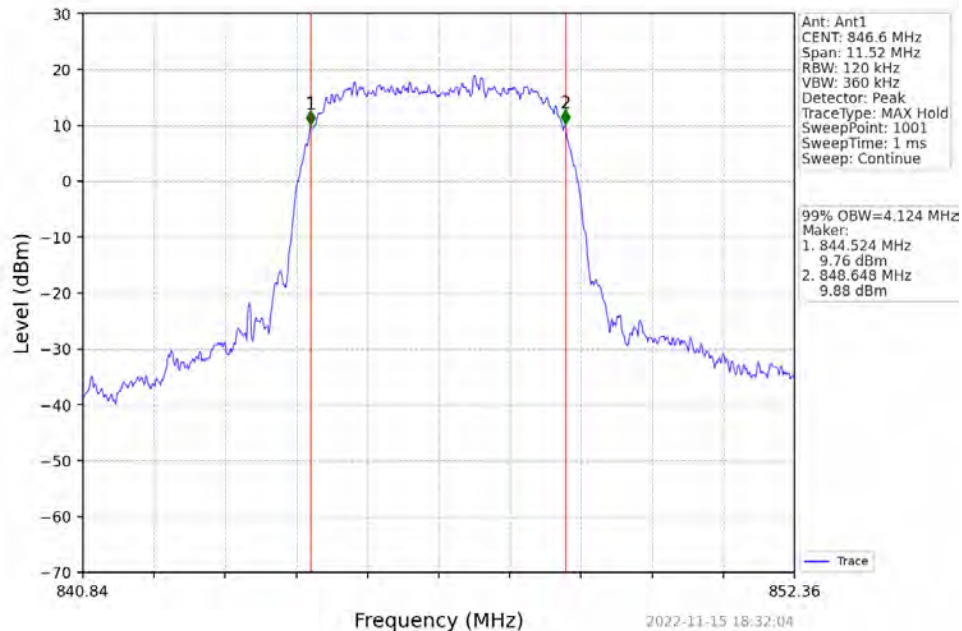
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



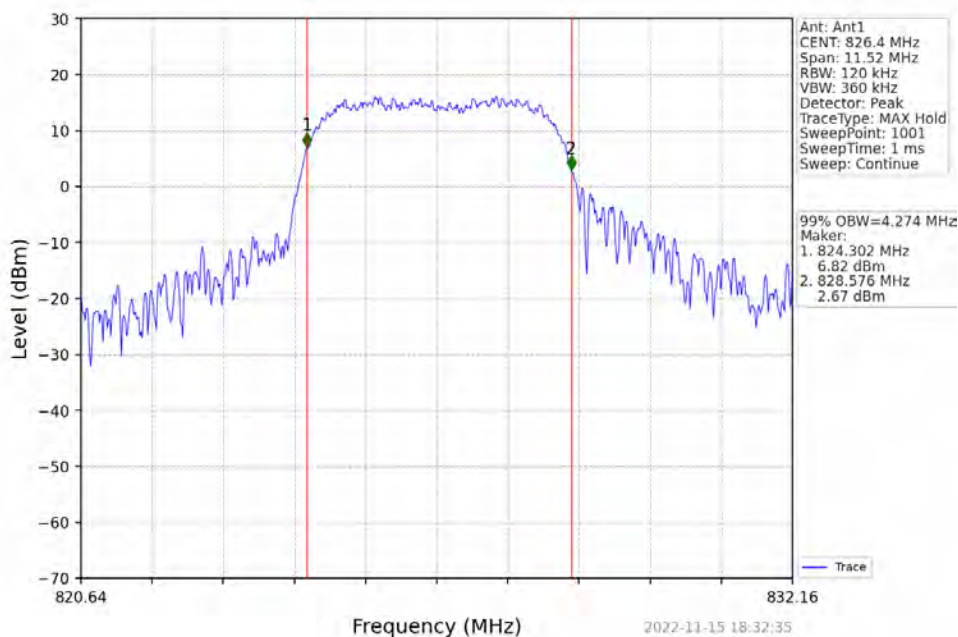
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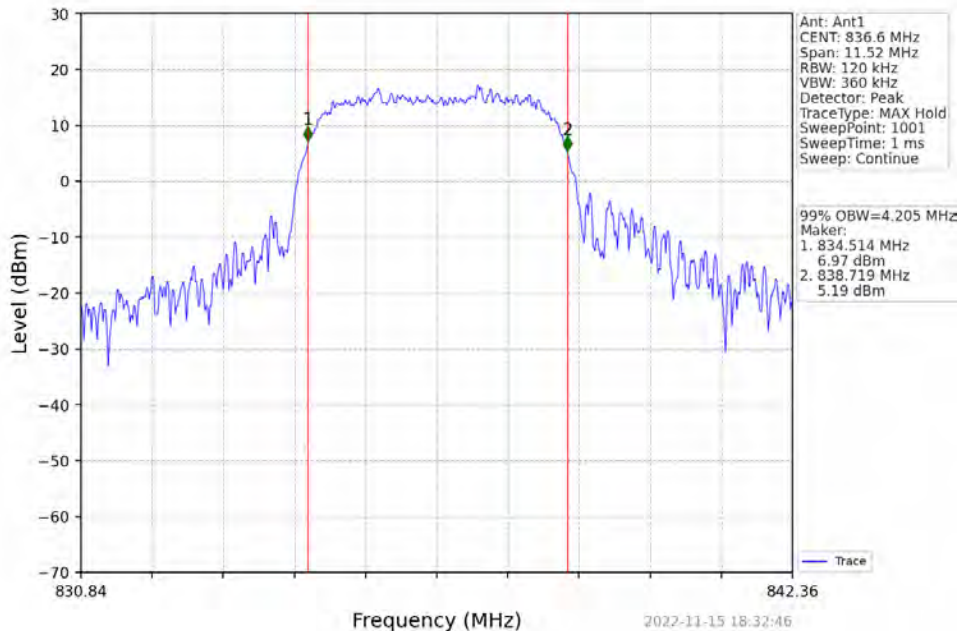
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Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



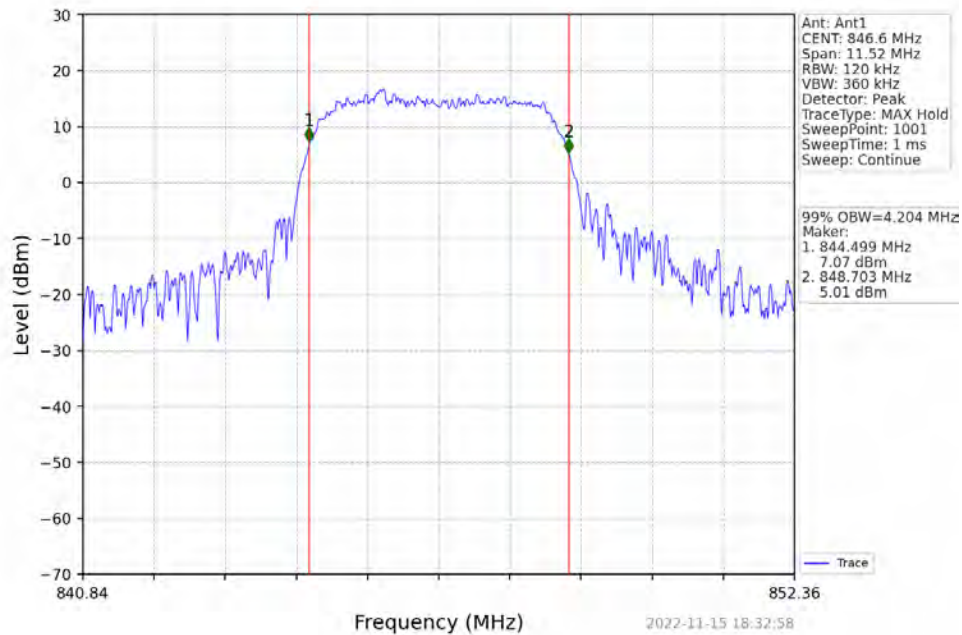
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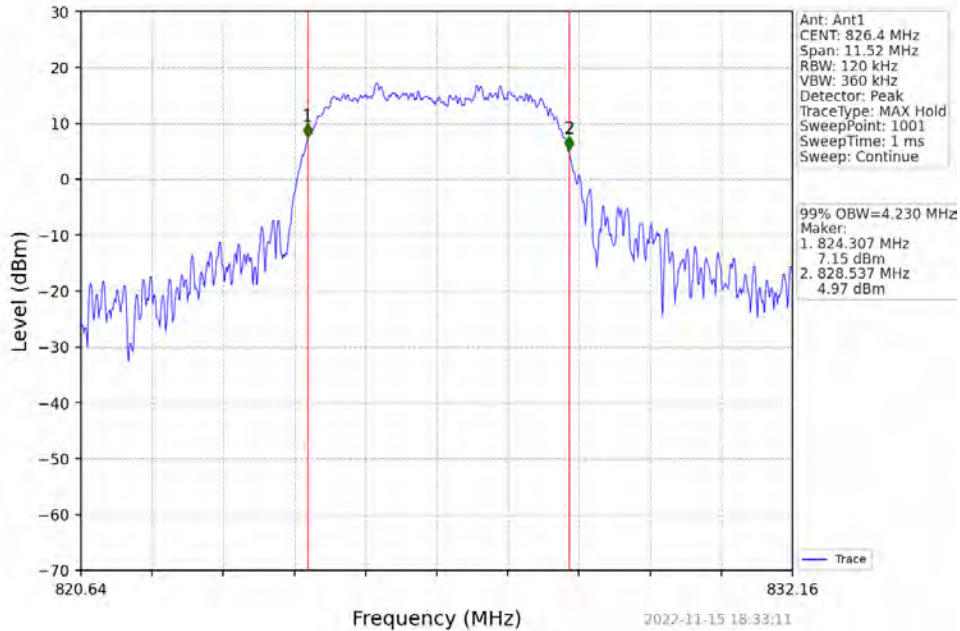
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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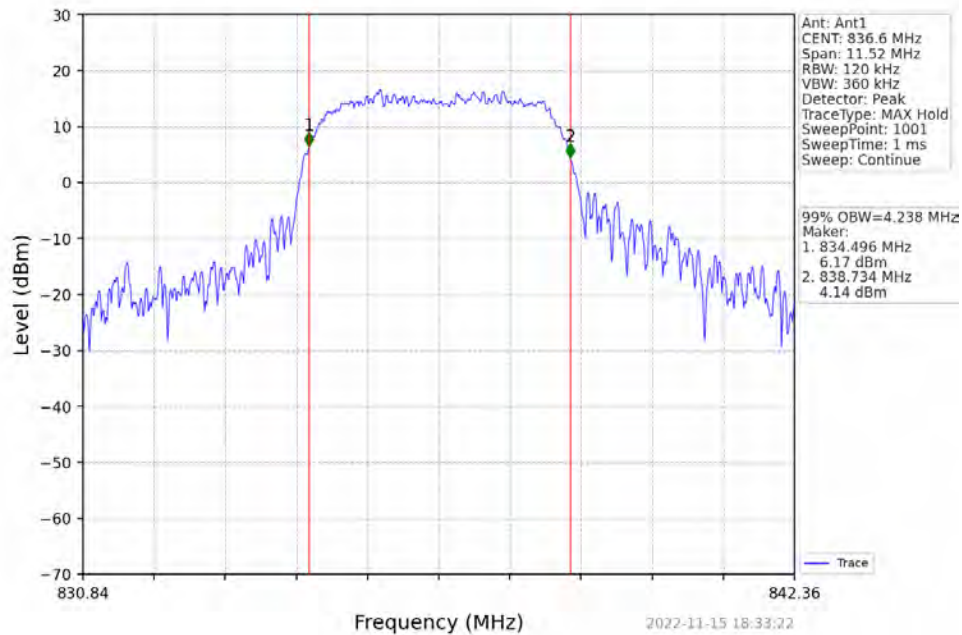
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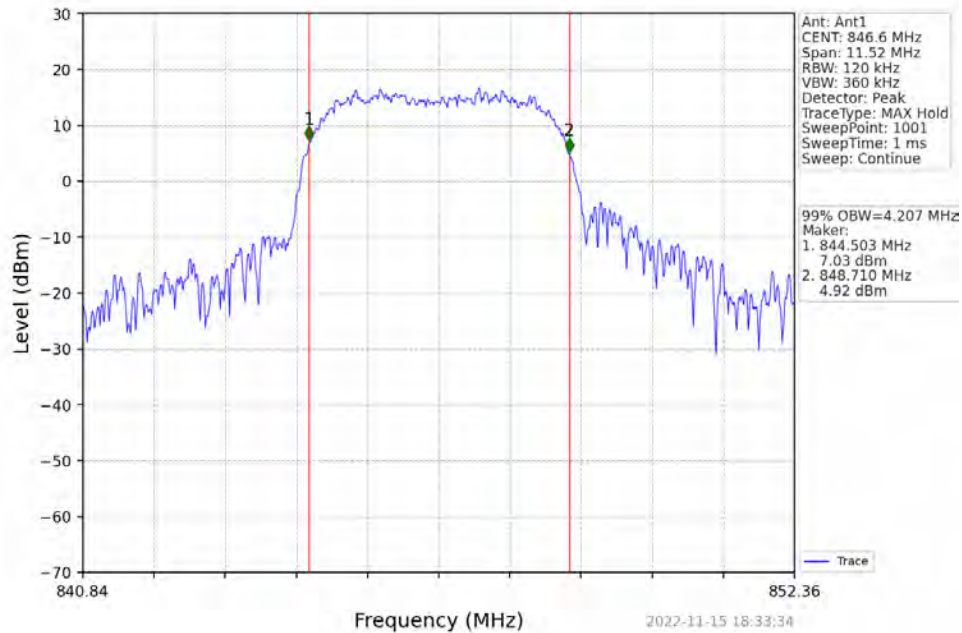
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Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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4.2 Band5_XDB

4.2.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.738	Pass
			836.6	4.722	Pass
			846.6	4.696	Pass
	HSDPA	Subtest 1	826.4	6.857	Pass
			836.6	6.249	Pass
			846.6	6.114	Pass
	HSUPA	Subtest 1	826.4	6.326	Pass
			836.6	6.527	Pass
			846.6	5.602	Pass



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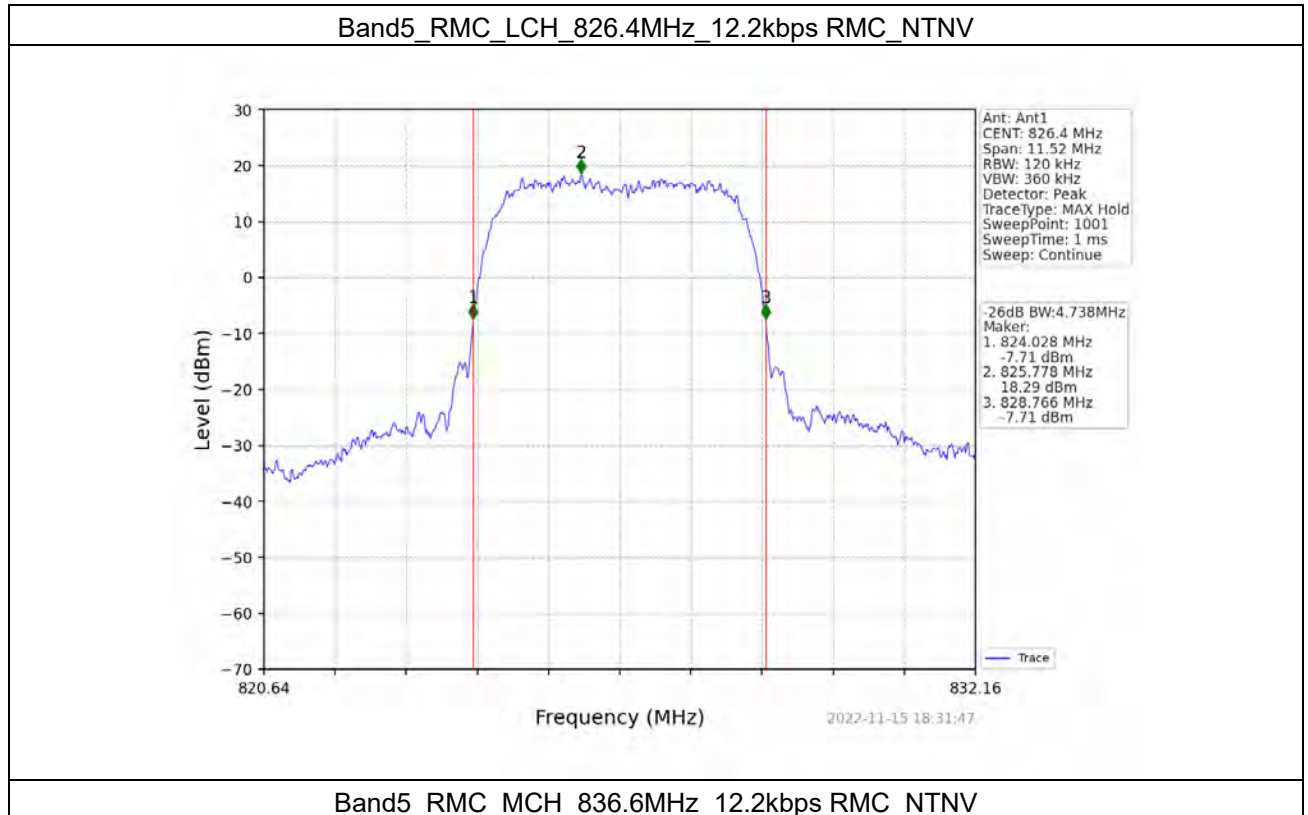
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4.2.2 Test Graph



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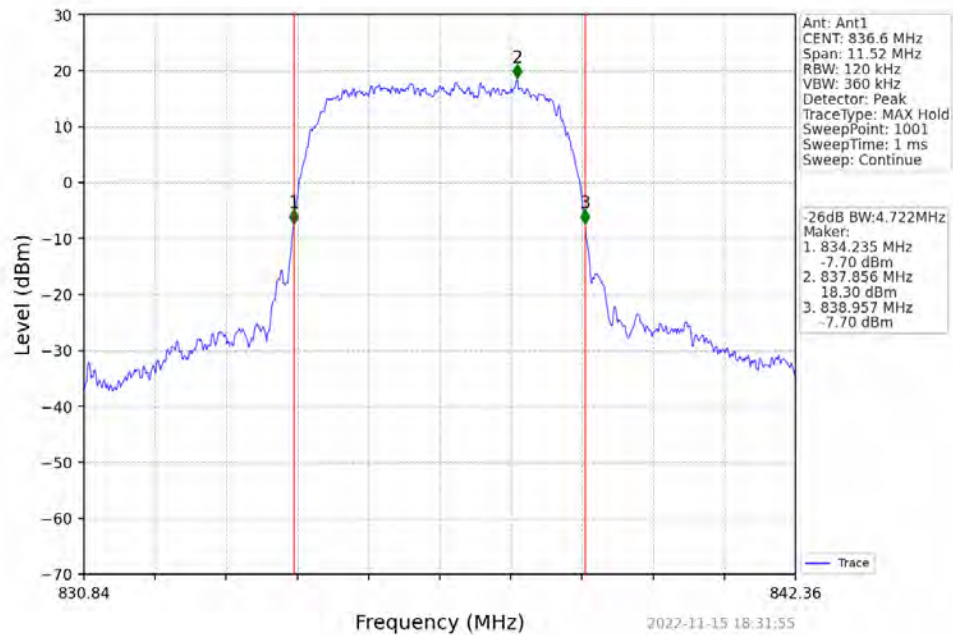
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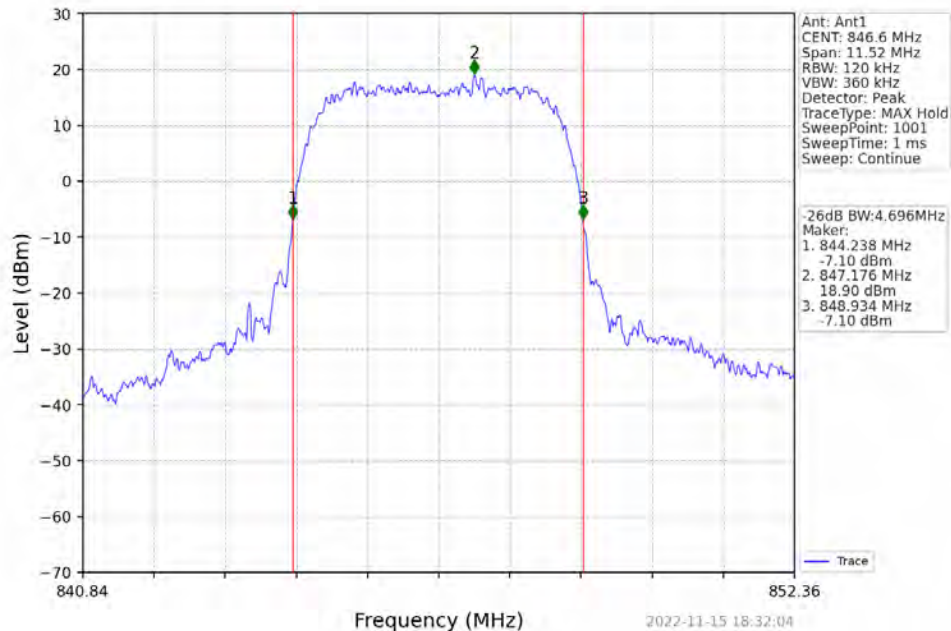
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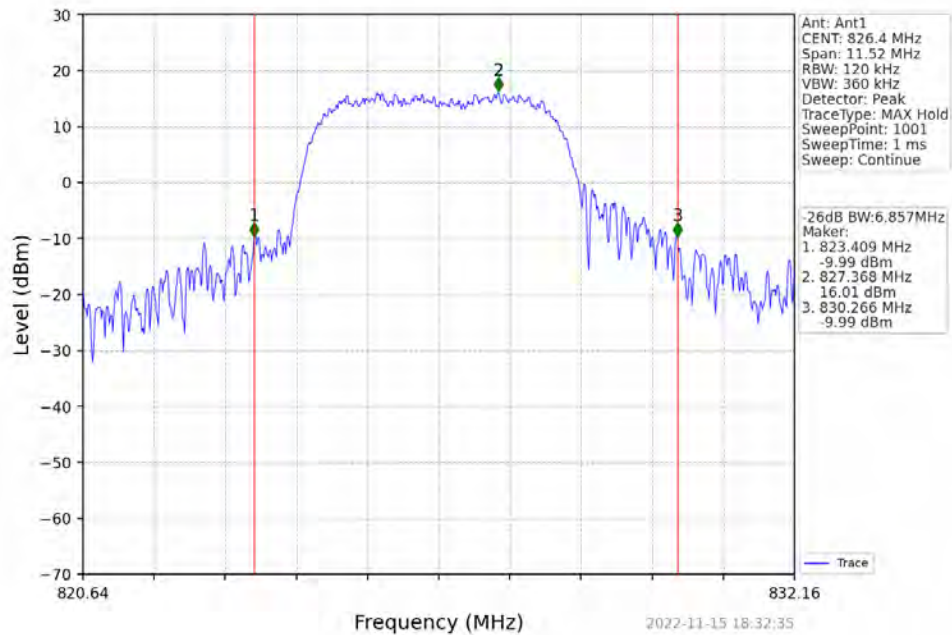
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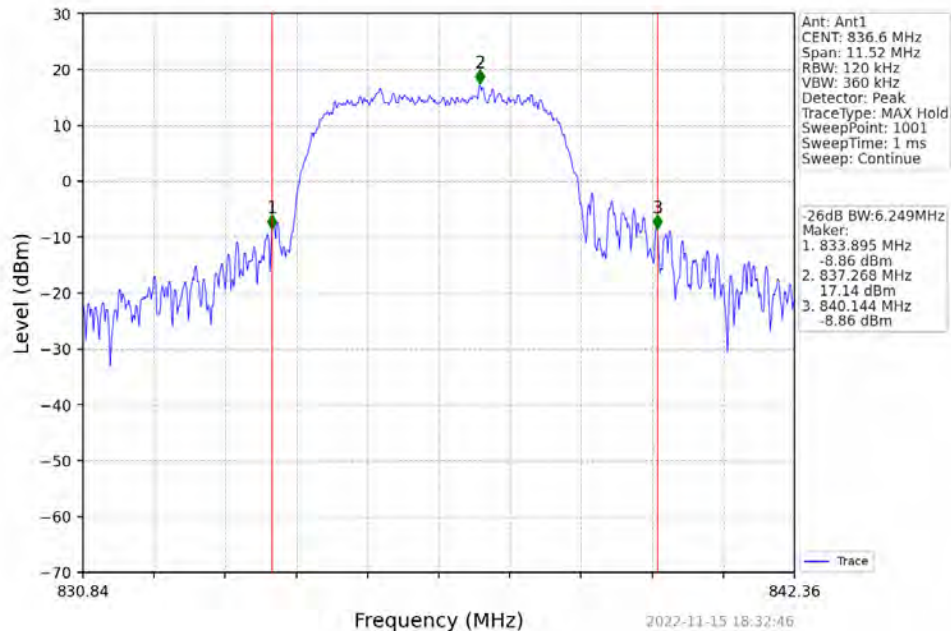
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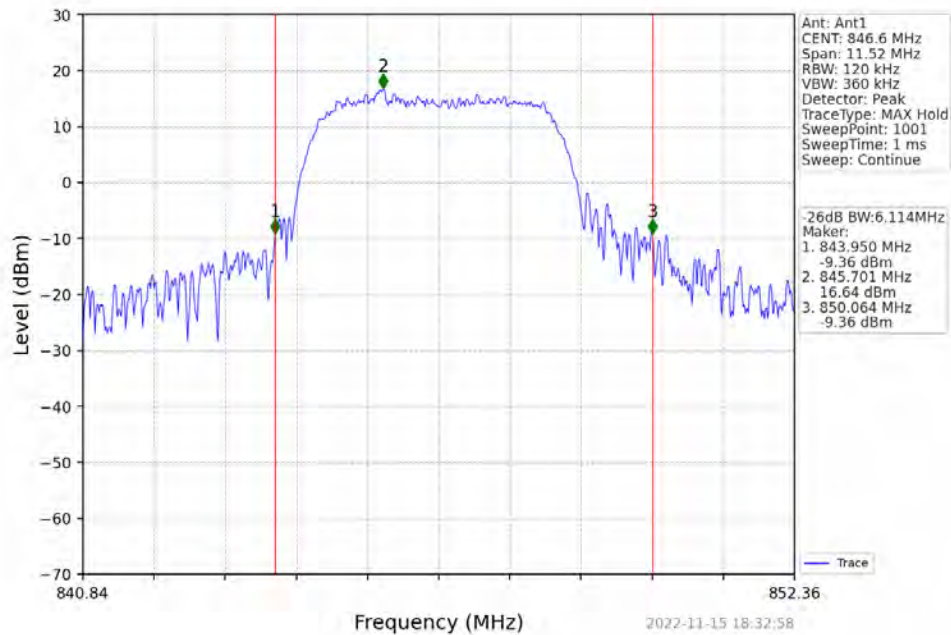
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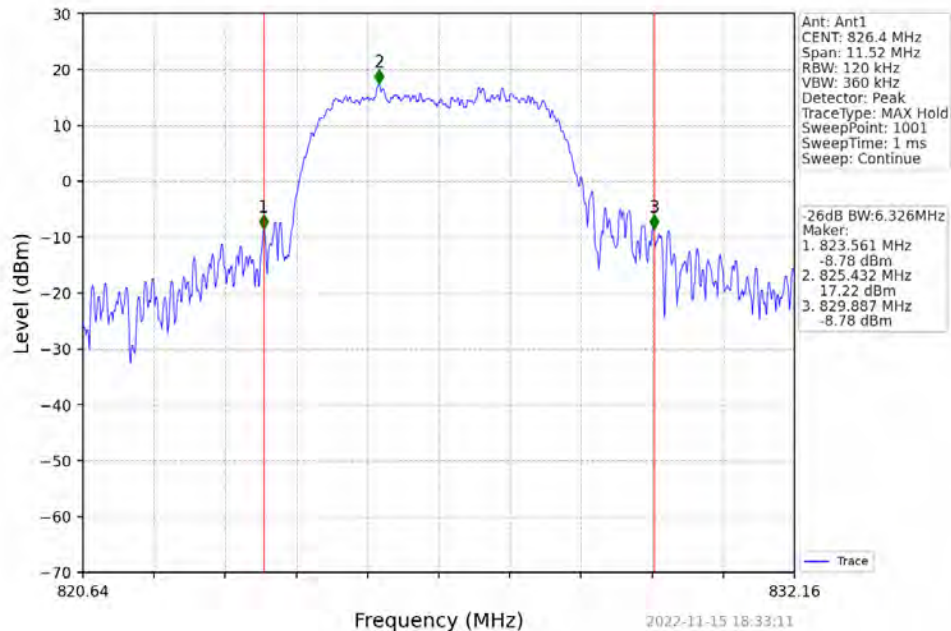
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



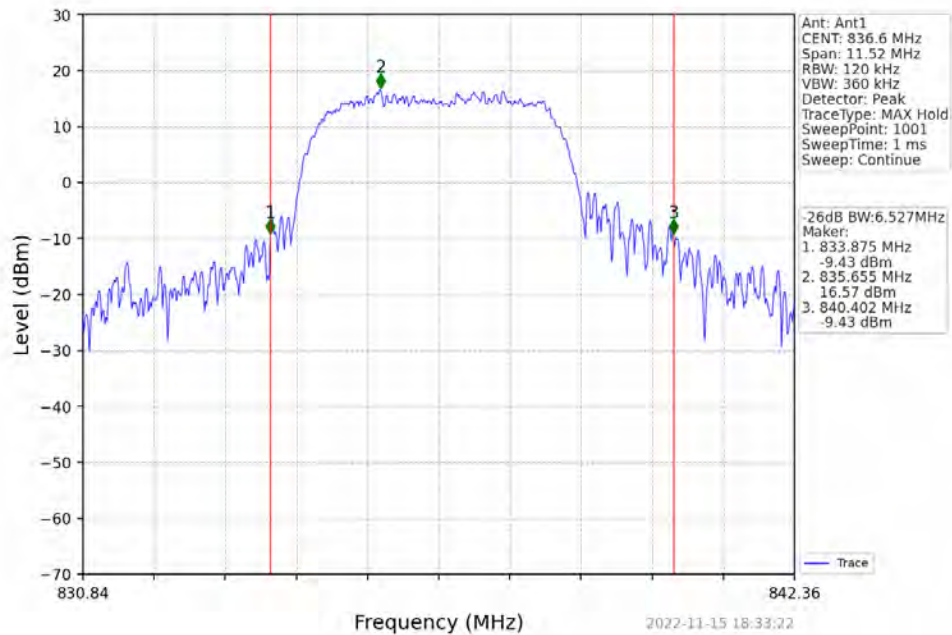
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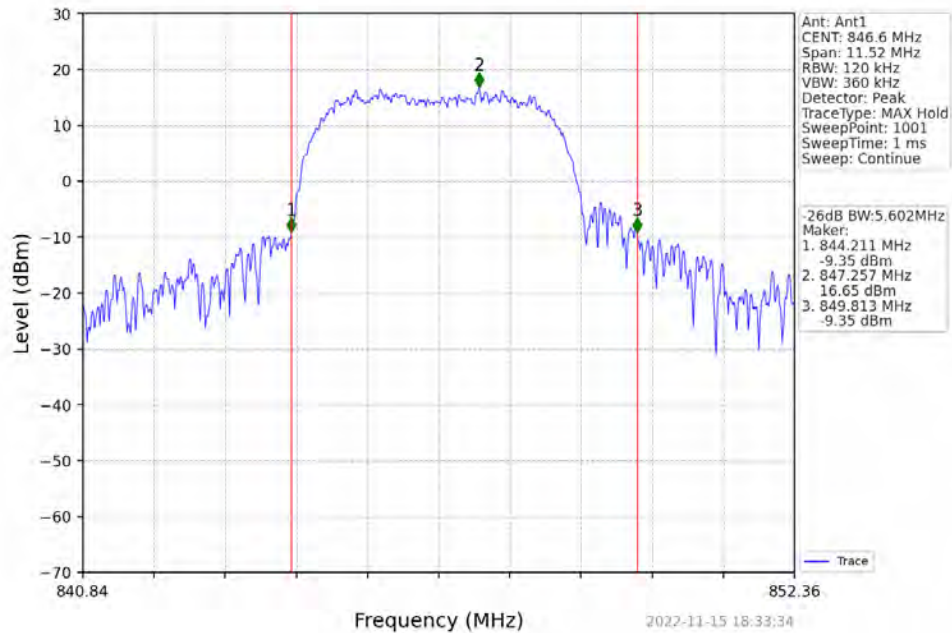
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Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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5. Peak-Average Ratio

5.1 Band5

5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.17	<=13	Pass
			836.6	3.20	<=13	Pass
			846.6	3.14	<=13	Pass
	HSDPA	Subtest 1	826.4	5.87	<=13	Pass
			836.6	5.77	<=13	Pass
			846.6	5.82	<=13	Pass
	HSUPA	Subtest 1	826.4	5.87	<=13	Pass
			836.6	5.75	<=13	Pass
			846.6	5.86	<=13	Pass



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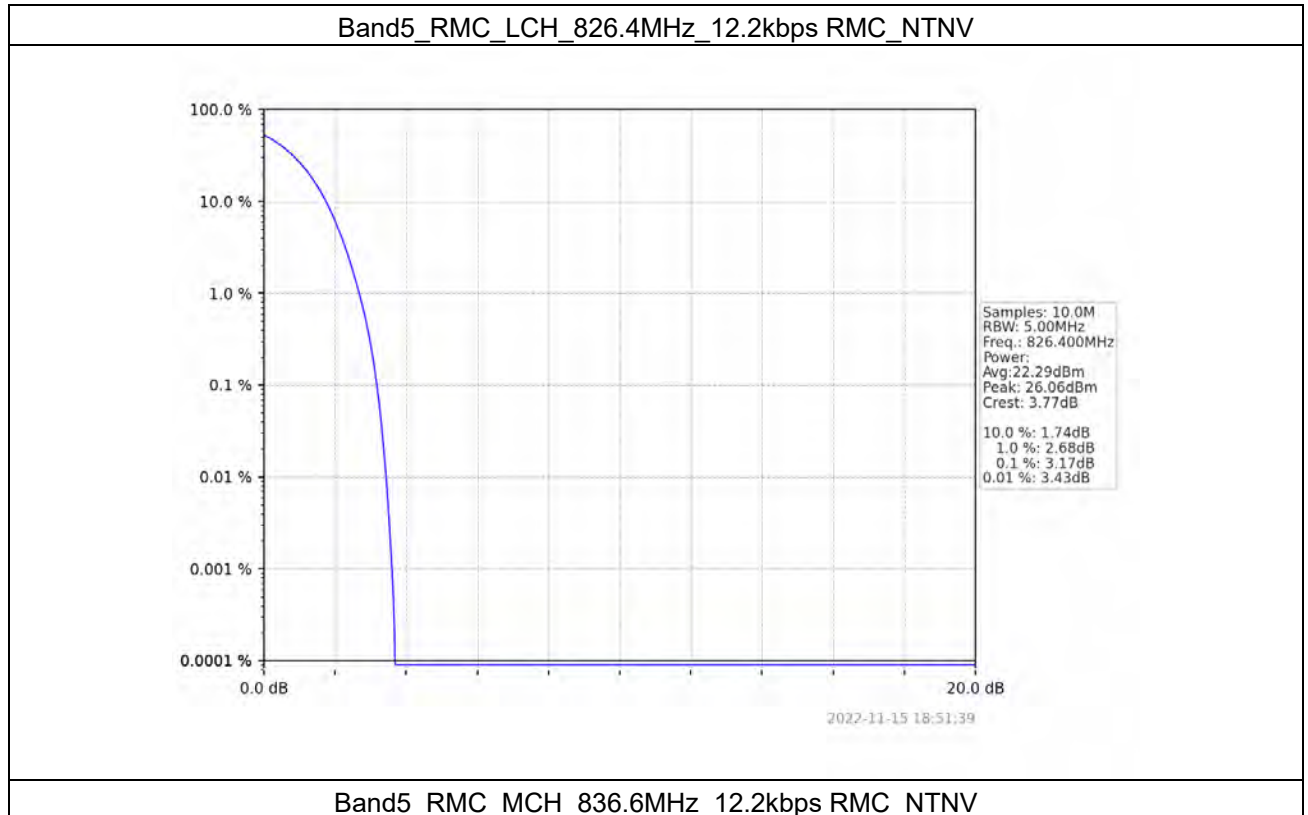
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5.1.2 Test Graph



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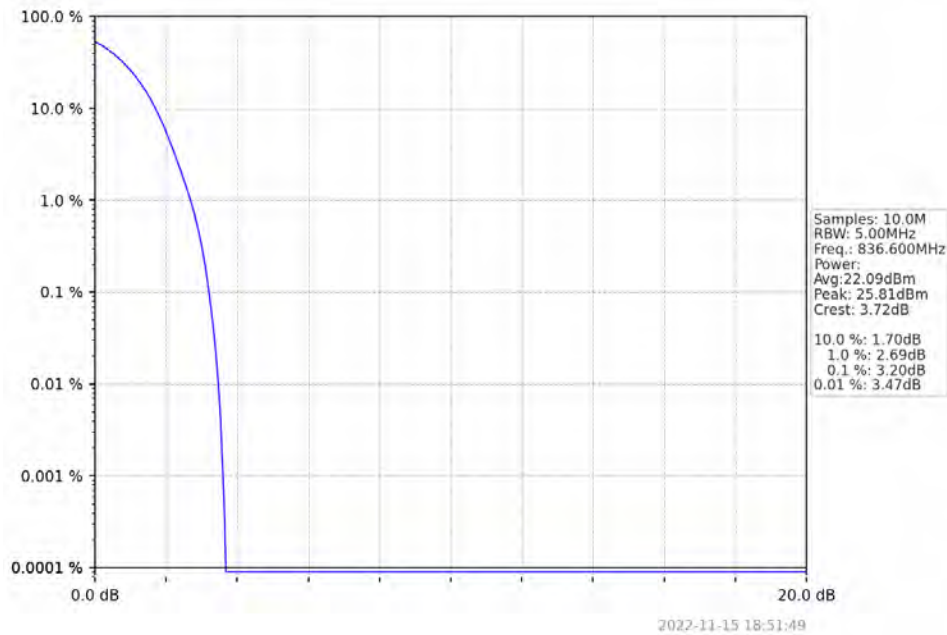
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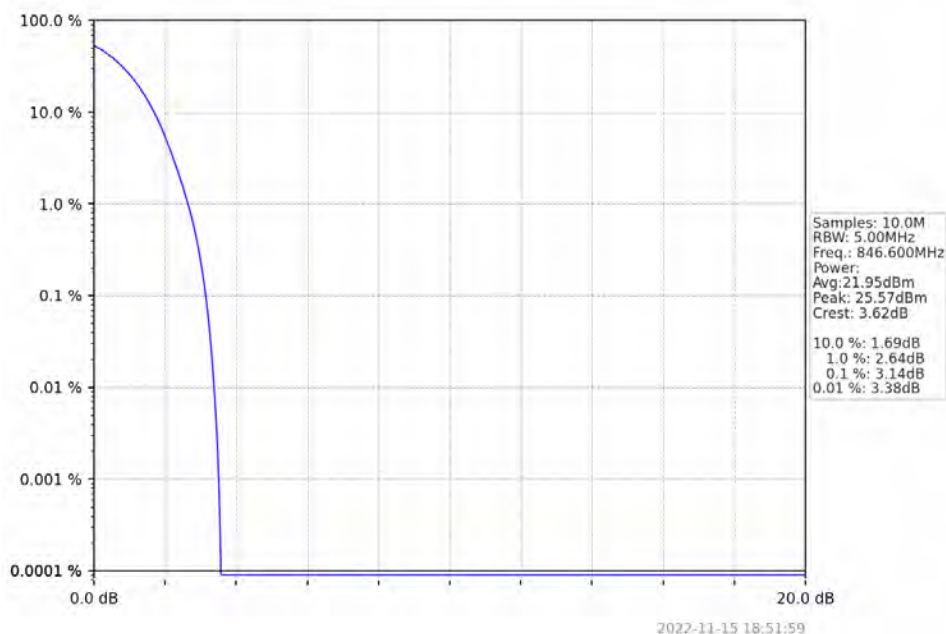
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



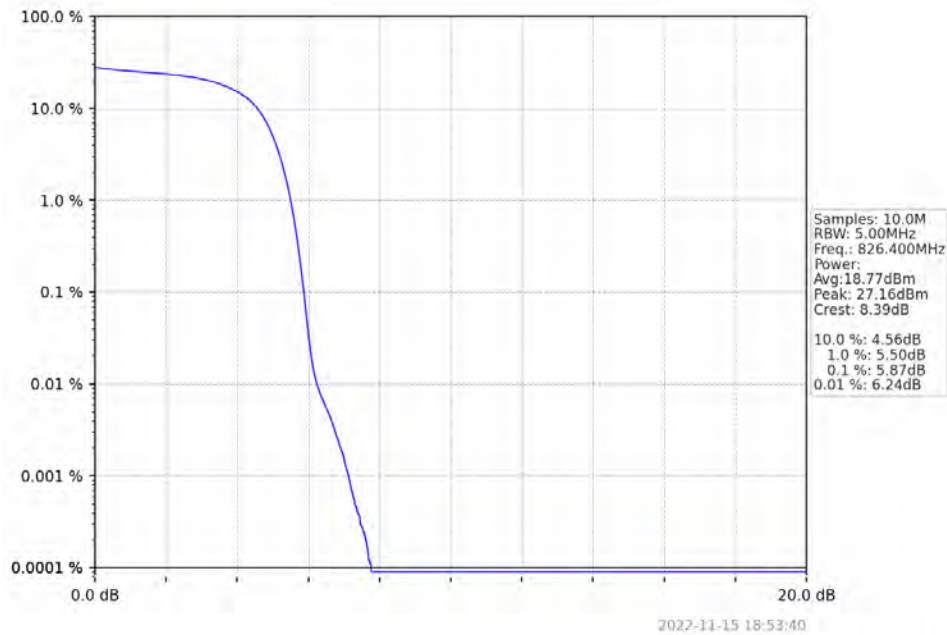
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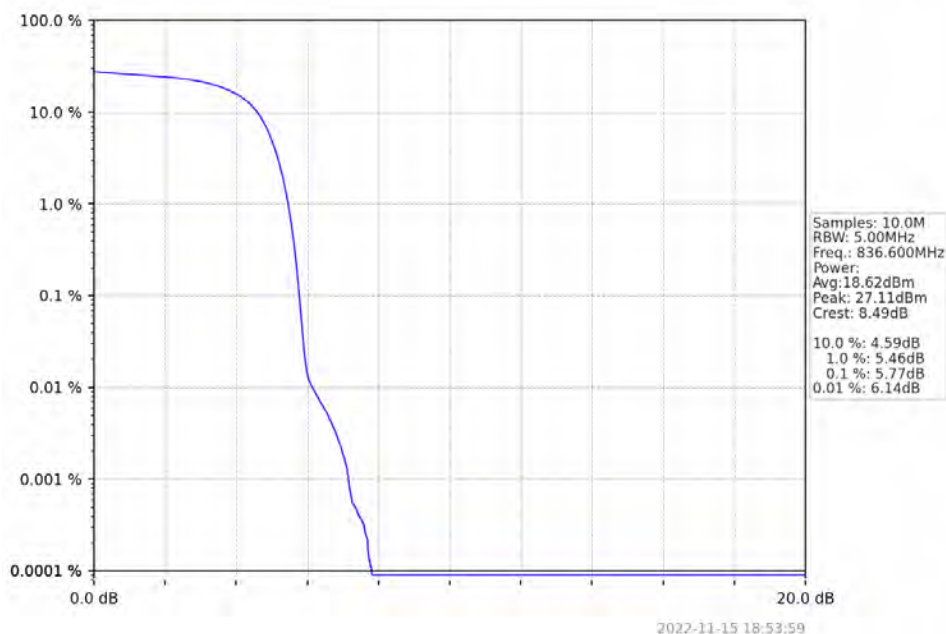
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Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



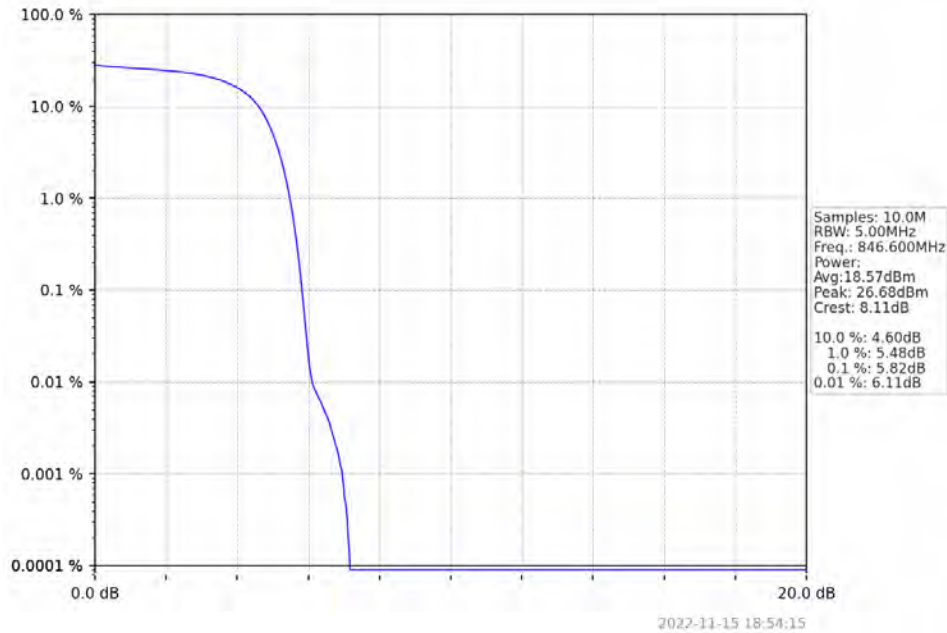
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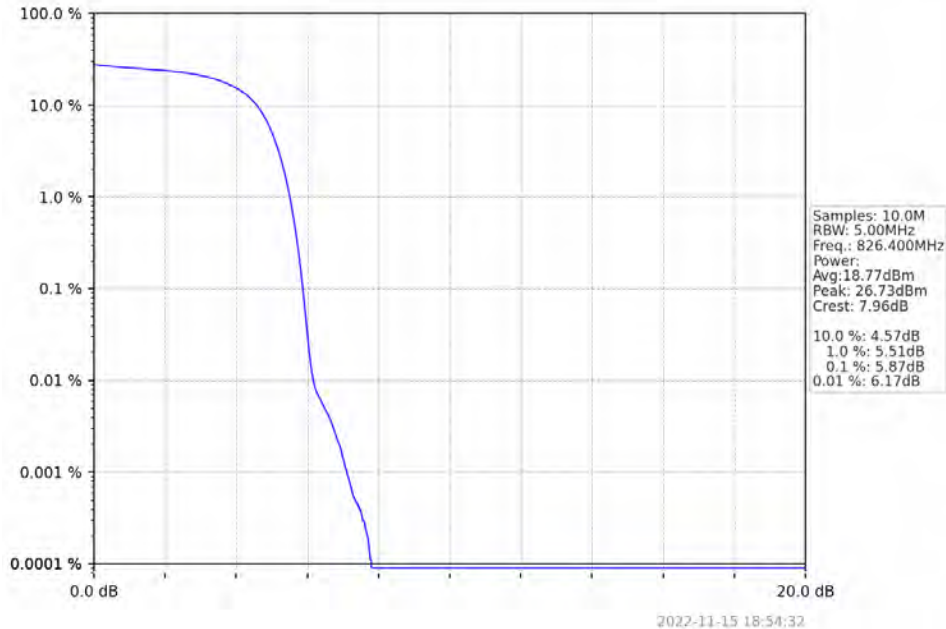
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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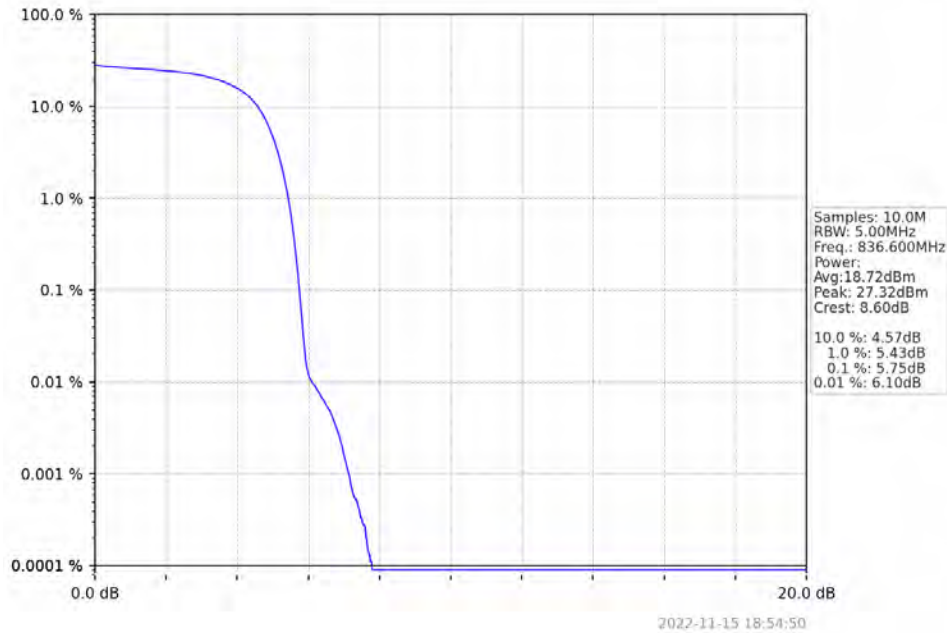
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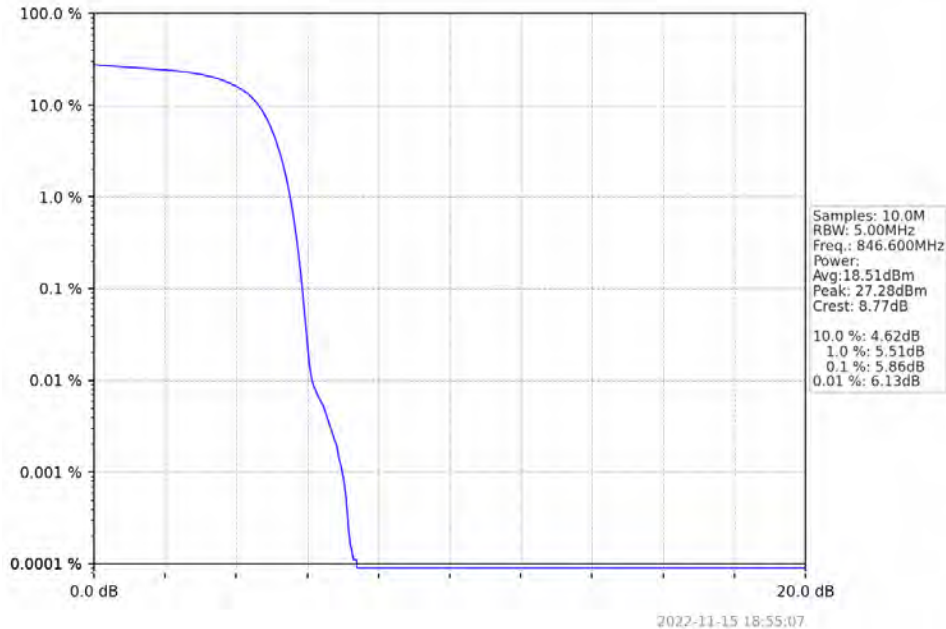
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6. Spurious Emission

6.1 Band5

6.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass



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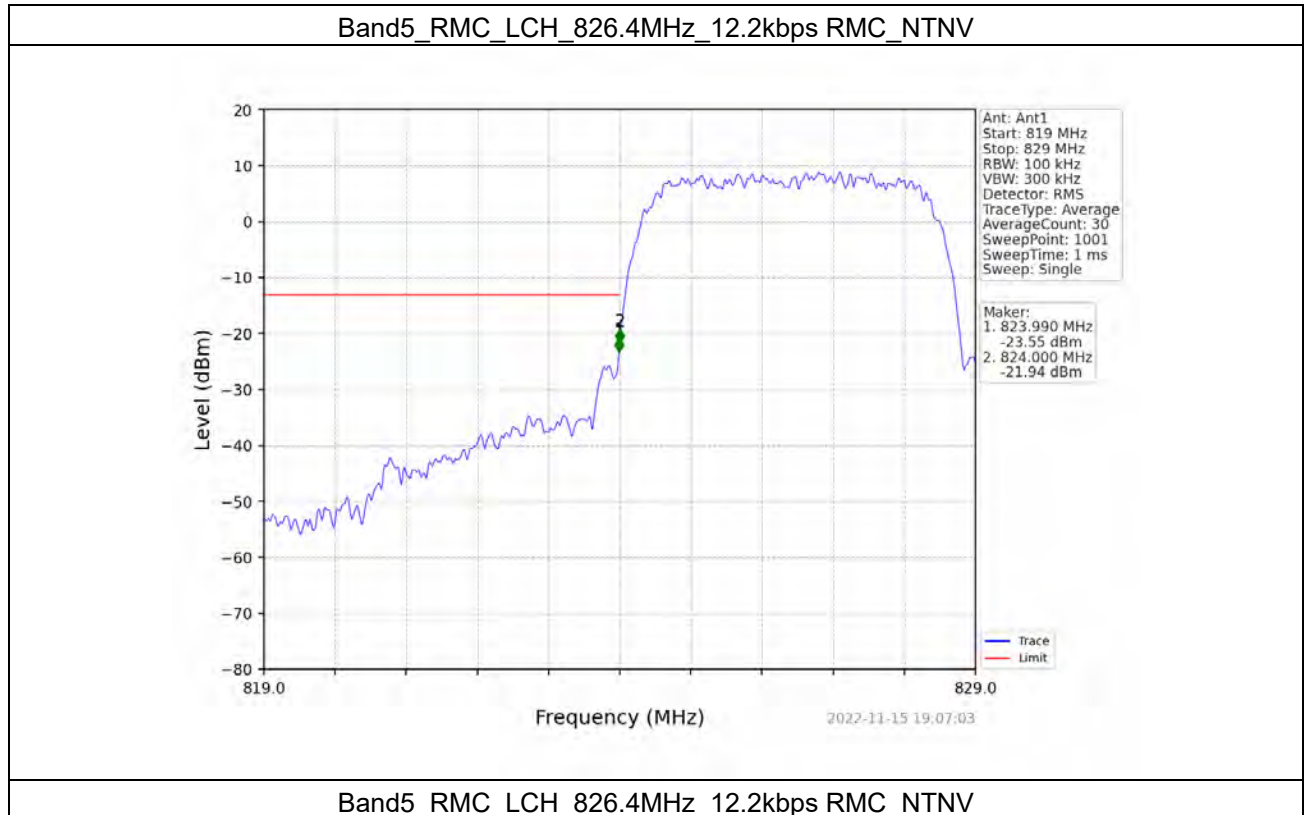
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6.1.2 Test Graph



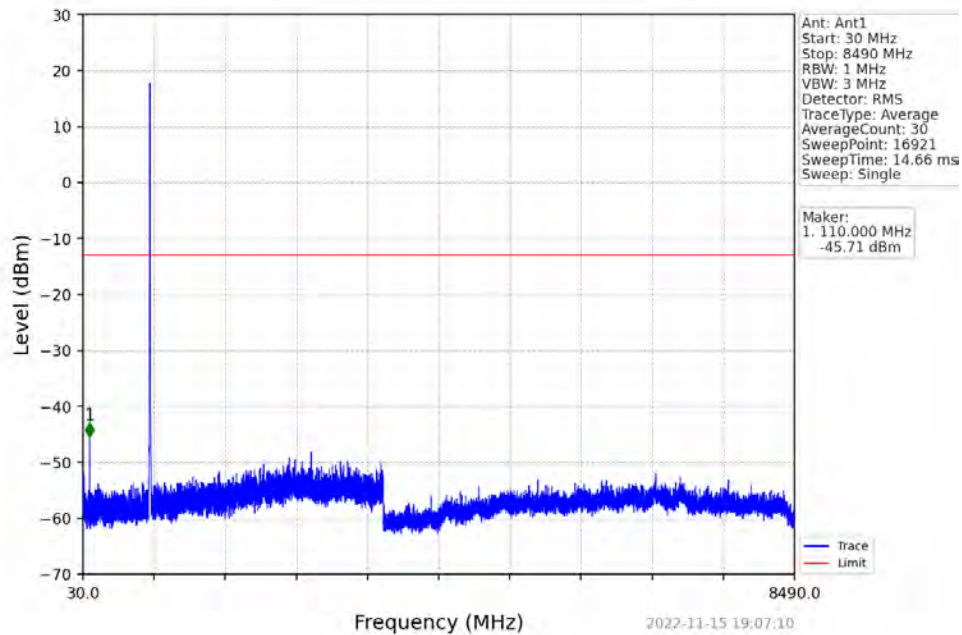
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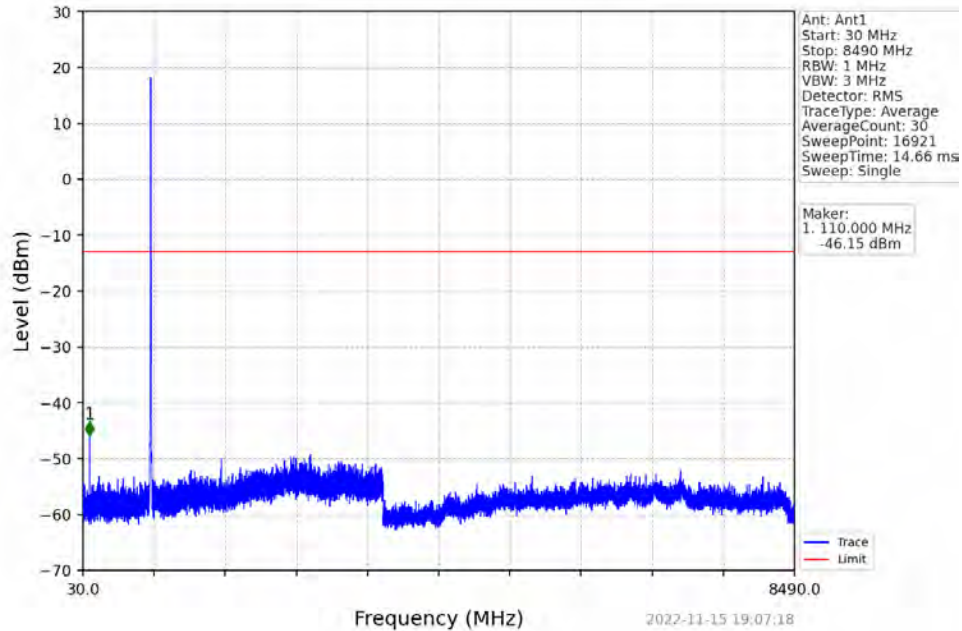
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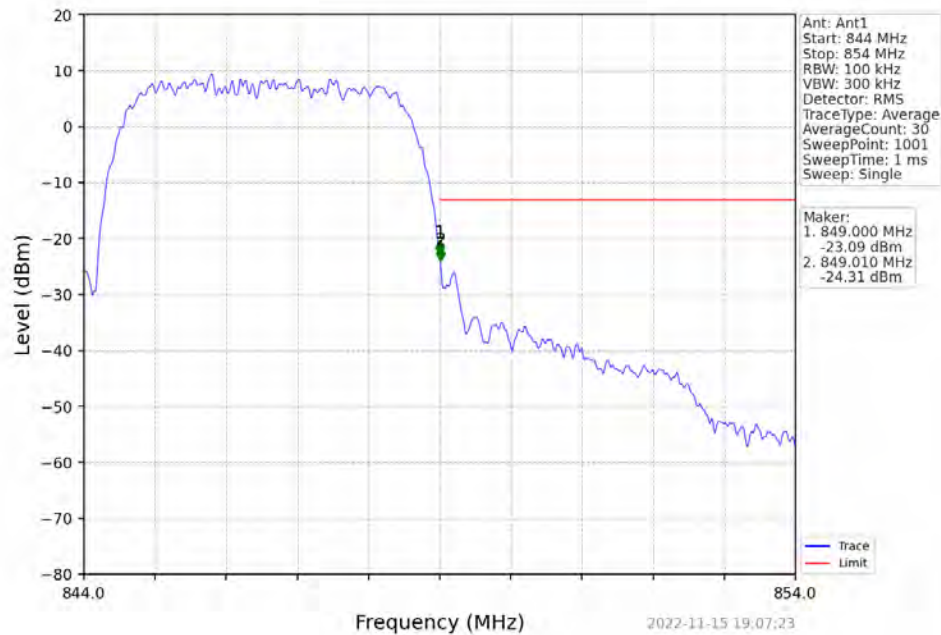
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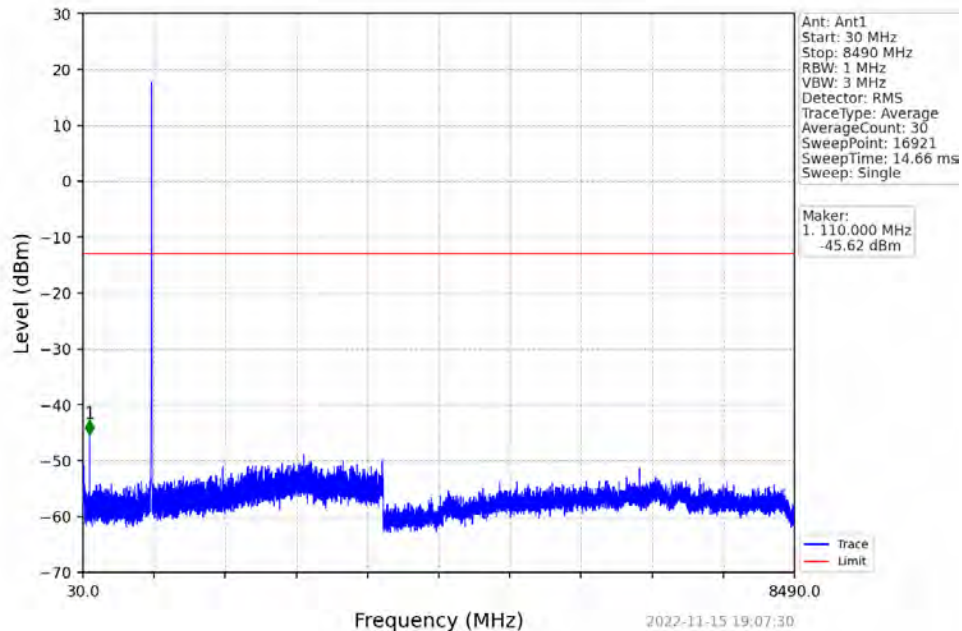
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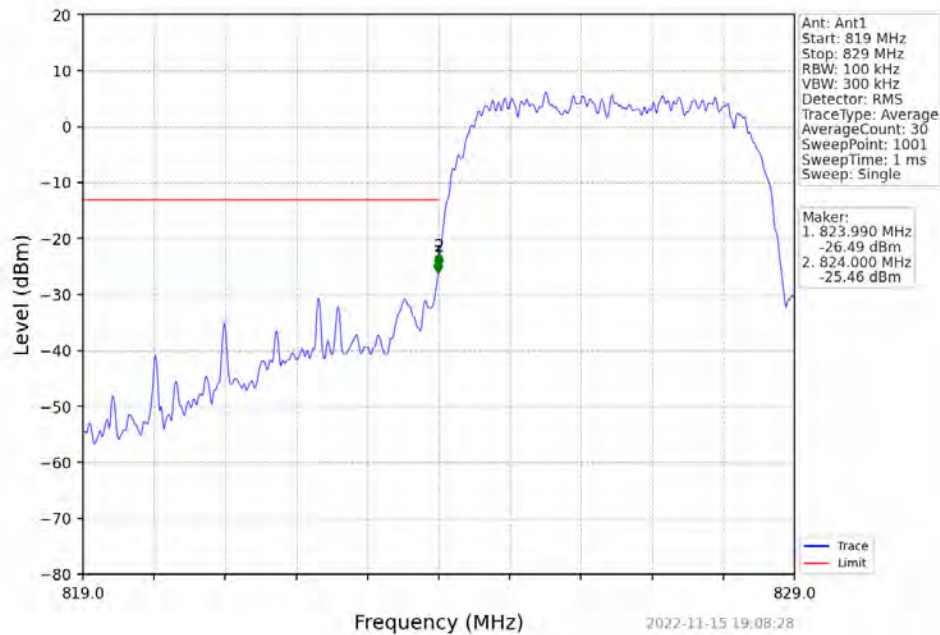
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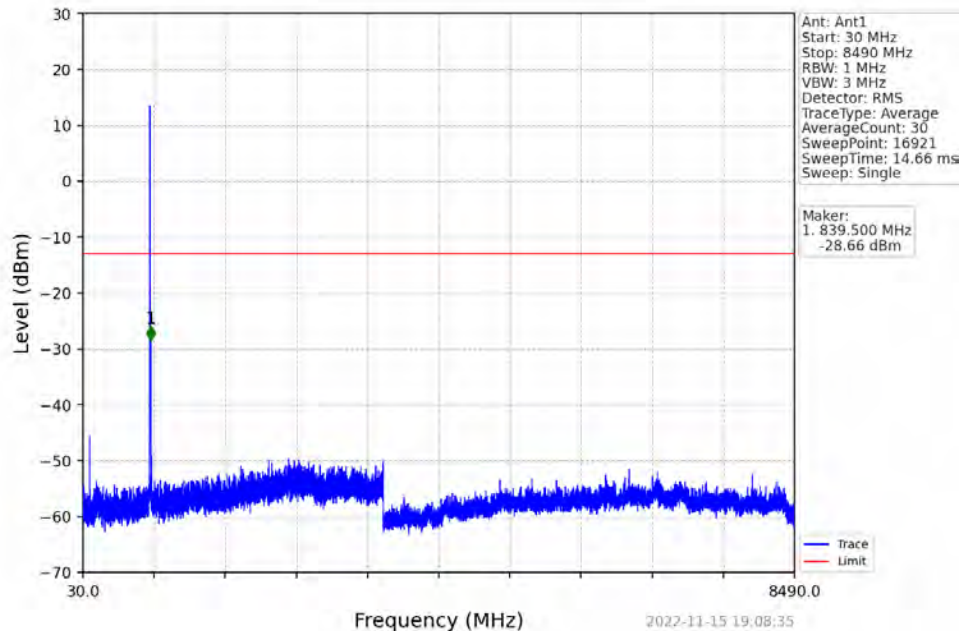
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Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



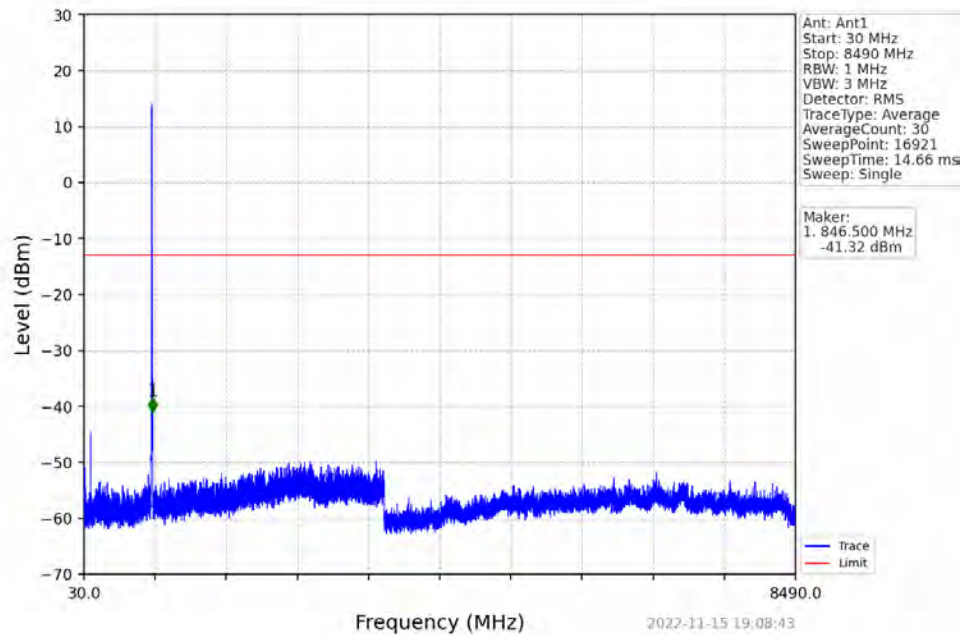
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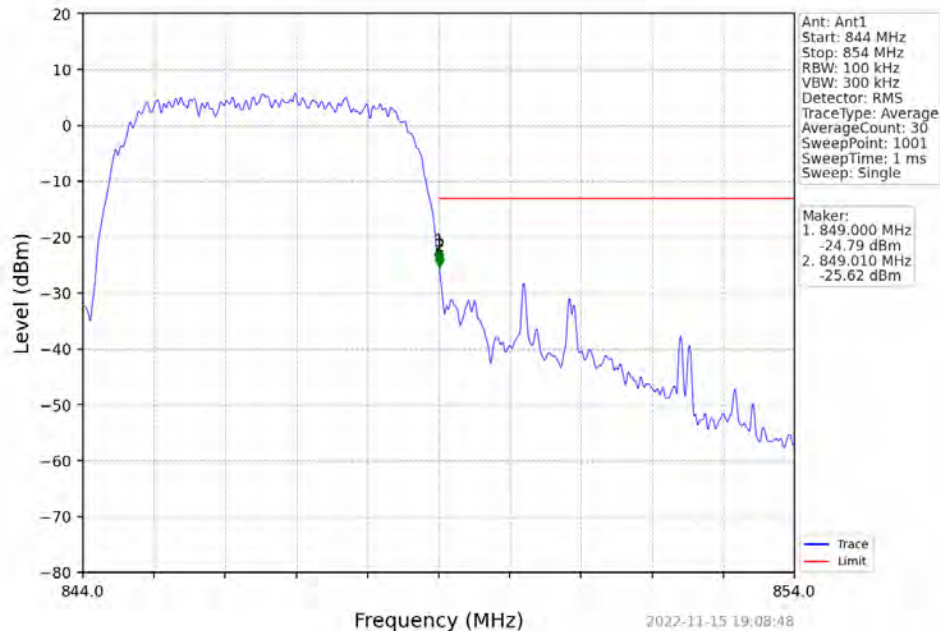
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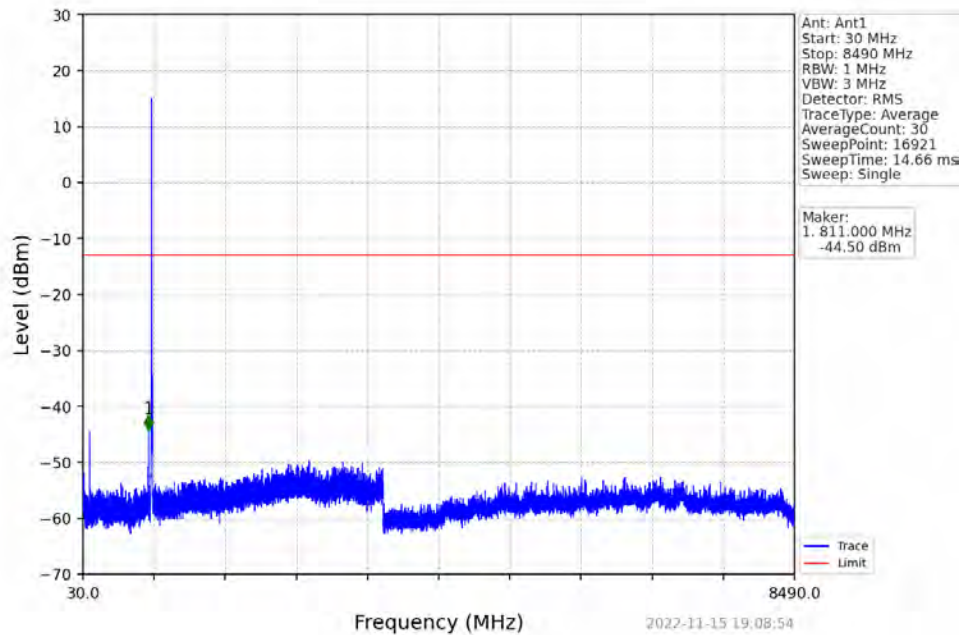
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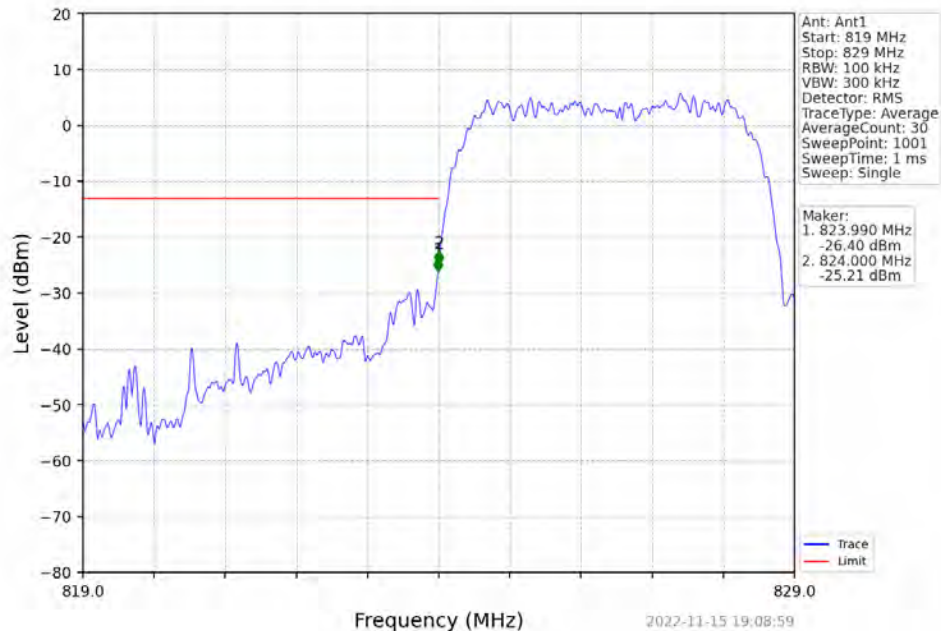
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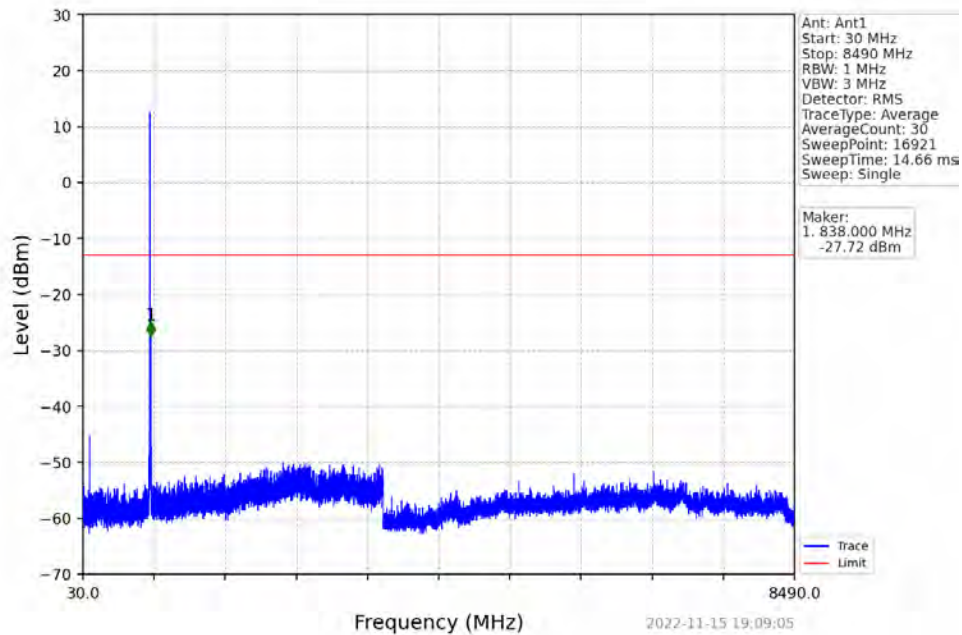
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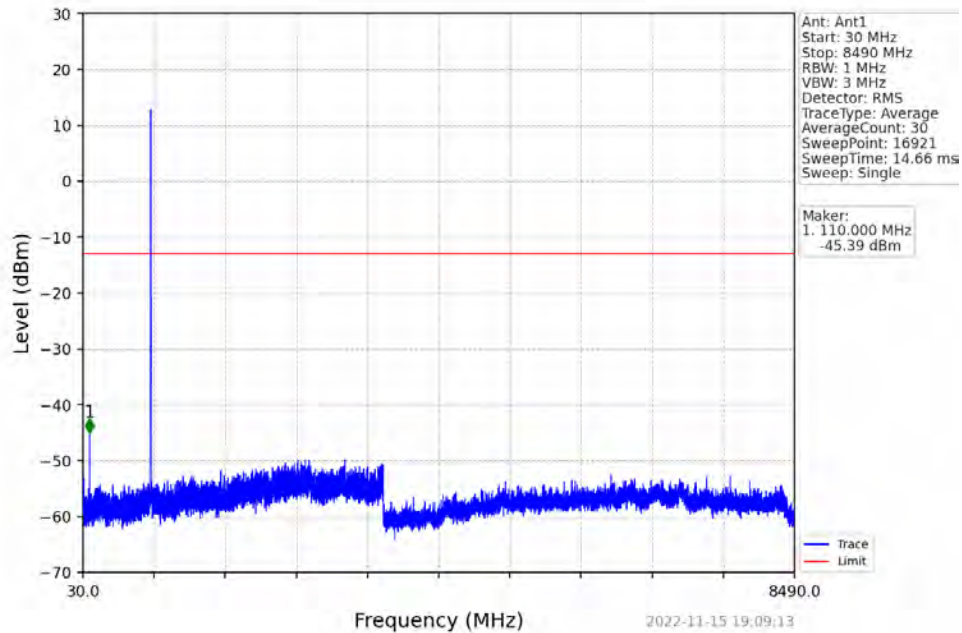
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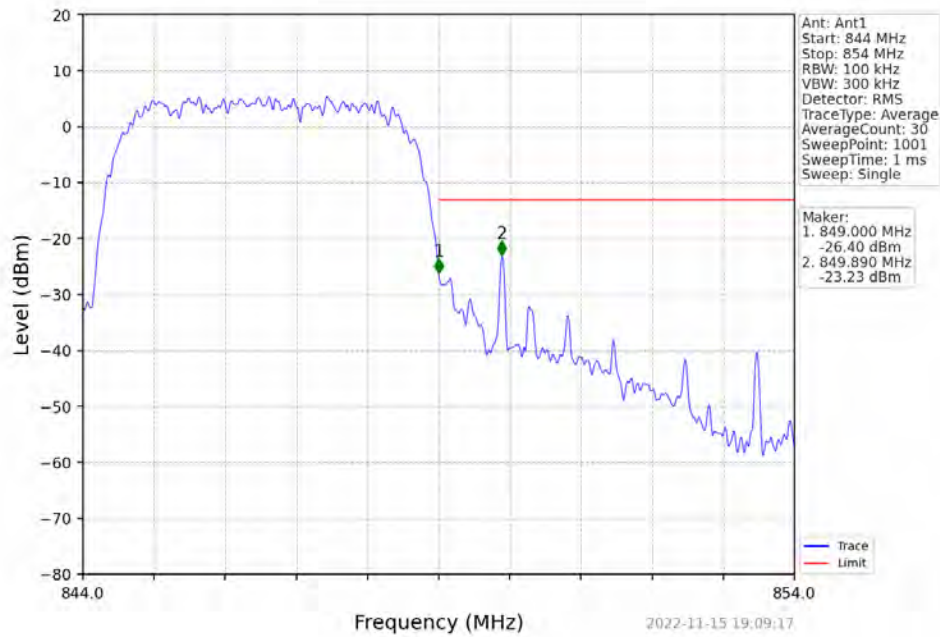
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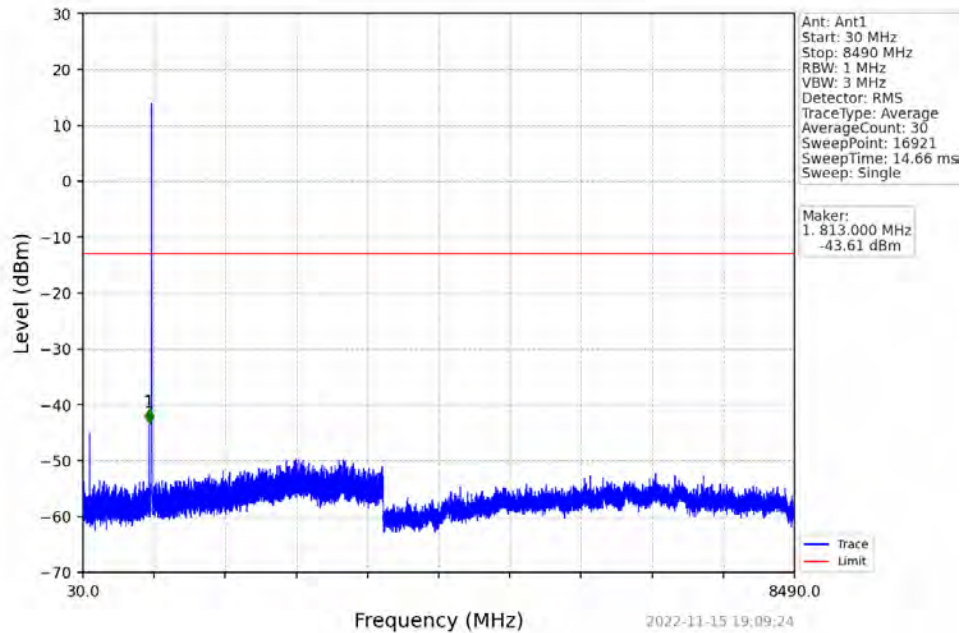
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