

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220700028507

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TEST REPORT**Application No.:**

FYCR2207000285AT

Applicant:

Dsspread Technology (Beijing) Inc

Address of Applicant:

Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100027 China

Manufacturer:

Dsspread Technology (Beijing) Inc

Address of Manufacturer:

Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100027 China

Factory:

Shenzhen Xin Kingbrand Enterprises Co.Ltd

Address of Factory:

Kingbrand Industrial Park, Nanpu Road, Shajing Street, Baoan District, Shenzhen, China

Equipment Under Test (EUT):**EUT Name:** Smart Pos**Model No.:** D30**FCC ID:** 2AGQ6-D30**Standard(s) :** 47 CFR Part 2

47 CFR Part 22 subpart H

47 CFR Part 24 subpart E

47 CFR Part 27 subpart C

Date of Receipt: 2022-07-27**Date of Test:** 2022-08-08 to 2022-09-29**Date of Issue:** 2022-10-22**Test Result:****Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang
EMC Technical Manager

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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2022-10-22		Original

Authorized for issue by:

	 _____ Tree Zhan/Project Engineer		
	 _____ Winkey Wang/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)	ERP≤7W(WCDMA band V) EIRP≤2W(WCDMA band II) EIRP≤1W(WCDMA Band IV)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	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
Field strength of spurious radiation	§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:	Powered by DC3.7V by Rechargeable Li-ion Battery Model: D30 1ICR19/66-2 Charged by AC adapter M/N: TPA-46050200UU Input: AC 100-240V, 50/60Hz, 0.3A Adapter output: DC5V, 2000mA
Cable(s):	Type-C cable: 101cm unshielded cable without ferrite core
Sample Type:	Portable production
Support Network:	RMC, HSDPA, HSUPA
Operation Frequency Band:	UMTS FDD Band II/IV/V
Modulation Type:	QPSK for WCDMA
Supported Channel Bandwidth:	5MHz for WCDMA
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	WCDMA B2: 1.5dBi, B4: 1.4dBi, B5: -0.8dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

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

4.2 Test Frequency

Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz



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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	0°C
	TN	+25°C
	TH	+40°C
Voltage:	VL	3.33V
	VN	3.7V
	VH	4.07V

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

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

Test Item	Measurement Uncertainty
Effective (Isotropic) Radiated Power Output Data	± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz)
Peak-Average Ratio	± 0.8dB
Modulation Characteristics	± 0.8dB
Bandwidth	± 0.3%
Band Edge Compliance	± 2.7dB
Spurious emissions at antenna terminals	± 2.7dB
Field strength of spurious radiation	± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz)
Frequency stability	± 5.4 x 10-8

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cisp/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.6 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

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5 Equipment List

Effective (Isotropic) Radiated Power Output Data					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Peak-Average Ratio					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1

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Field Probe - Analyzer					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Modulation Characteristics					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

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Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Band Edge Compliance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Spurious emissions at antenna terminals					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11

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Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Field strength of spurious radiation(Below 1GHz & Above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2022/7/12	2023/7/11
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24

Frequency stability

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11

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Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11

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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 C63.26-2015, KDB 971168 D01 v03r01
Limit: $ERP \leq 7W$ (WCDMA BAND V)
 $EIRP \leq 2W$ (WCDMA BAND II)
 $EIRP \leq 1W$ (WCDMA Band IV)

6.1.1 E.U.T. Operation

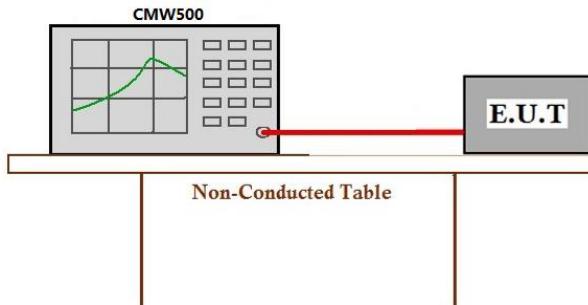
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode_Keep the EUT in transmitting mode

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data



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ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	1852.4	23.68	1.50	25.18	<=33.01	Pass			
			1880	23.54	1.50	25.04	<=33.01	Pass			
			1907.6	23.46	1.50	24.96	<=33.01	Pass			
	HSDPA	Subtest 1	1852.4	21.82	1.50	23.32	<=33.01	Pass			
		Subtest 2	1852.4	21.85	1.50	23.35	<=33.01	Pass			
		Subtest 3	1852.4	21.80	1.50	23.30	<=33.01	Pass			
		Subtest 4	1852.4	21.85	1.50	23.35	<=33.01	Pass			
		Subtest 1	1880	21.88	1.50	23.38	<=33.01	Pass			
		Subtest 2	1880	21.86	1.50	23.36	<=33.01	Pass			
		Subtest 3	1880	21.83	1.50	23.33	<=33.01	Pass			
		Subtest 4	1880	21.87	1.50	23.37	<=33.01	Pass			
		Subtest 1	1907.6	21.76	1.50	23.26	<=33.01	Pass			
		Subtest 2	1907.6	21.76	1.50	23.26	<=33.01	Pass			
		Subtest 3	1907.6	21.69	1.50	23.19	<=33.01	Pass			
		Subtest 4	1907.6	21.66	1.50	23.16	<=33.01	Pass			
	HSUPA	Subtest 1	1852.4	19.67	1.50	21.17	<=33.01	Pass			
		Subtest 2	1852.4	19.92	1.50	21.42	<=33.01	Pass			
		Subtest 3	1852.4	19.62	1.50	21.12	<=33.01	Pass			
		Subtest 4	1852.4	19.59	1.50	21.09	<=33.01	Pass			
		Subtest 5	1852.4	20.10	1.50	21.60	<=33.01	Pass			
		Subtest 1	1880	20.16	1.50	21.66	<=33.01	Pass			
		Subtest 2	1880	19.89	1.50	21.39	<=33.01	Pass			
		Subtest 3	1880	19.90	1.50	21.40	<=33.01	Pass			
		Subtest 4	1880	19.68	1.50	21.18	<=33.01	Pass			
		Subtest 5	1880	19.76	1.50	21.26	<=33.01	Pass			
		Subtest 1	1907.6	19.93	1.50	21.43	<=33.01	Pass			
		Subtest 2	1907.6	19.97	1.50	21.47	<=33.01	Pass			
		Subtest 3	1907.6	20.04	1.50	21.54	<=33.01	Pass			
		Subtest 4	1907.6	19.57	1.50	21.07	<=33.01	Pass			
		Subtest 5	1907.6	19.33	1.50	20.83	<=33.01	Pass			

Note1: EIRP=Conducted Power+Antenna Gain



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ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
		1712.4	23.48	1.40	24.88	<=30	Pass	
NTNV	RMC	12.2kbps RMC	1732.6	23.45	1.40	24.85	<=30	Pass
			1752.6	23.51	1.40	24.91	<=30	Pass
			Subtest 1	1712.4	21.73	1.40	23.13	<=30
	HSDPA	Subtest 2	1712.4	21.69	1.40	23.09	<=30	Pass
		Subtest 3	1712.4	21.62	1.40	23.02	<=30	Pass
		Subtest 4	1712.4	21.67	1.40	23.07	<=30	Pass
		Subtest 1	1732.6	21.67	1.40	23.07	<=30	Pass
		Subtest 2	1732.6	21.69	1.40	23.09	<=30	Pass
		Subtest 3	1732.6	21.63	1.40	23.03	<=30	Pass
		Subtest 4	1732.6	21.68	1.40	23.08	<=30	Pass
		Subtest 1	1752.6	21.66	1.40	23.06	<=30	Pass
		Subtest 2	1752.6	21.65	1.40	23.05	<=30	Pass
		Subtest 3	1752.6	21.61	1.40	23.01	<=30	Pass
		Subtest 4	1752.6	21.79	1.40	23.19	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.86	1.40	21.26	<=30	Pass
		Subtest 2	1712.4	19.27	1.40	20.67	<=30	Pass
		Subtest 3	1712.4	19.33	1.40	20.73	<=30	Pass
		Subtest 4	1712.4	19.73	1.40	21.13	<=30	Pass
		Subtest 5	1712.4	19.84	1.40	21.24	<=30	Pass
		Subtest 1	1732.6	19.91	1.40	21.31	<=30	Pass
		Subtest 2	1732.6	19.61	1.40	21.01	<=30	Pass
		Subtest 3	1732.6	19.84	1.40	21.24	<=30	Pass
		Subtest 4	1732.6	20.12	1.40	21.52	<=30	Pass
		Subtest 5	1732.6	19.99	1.40	21.39	<=30	Pass
		Subtest 1	1752.6	19.52	1.40	20.92	<=30	Pass
		Subtest 2	1752.6	19.52	1.40	20.92	<=30	Pass
		Subtest 3	1752.6	19.87	1.40	21.27	<=30	Pass
		Subtest 4	1752.6	19.93	1.40	21.33	<=30	Pass
		Subtest 5	1752.6	19.87	1.40	21.27	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
		826.4	23.32	-0.80	20.37	<=38.45	Pass	
NTNV	RMC	12.2kbps RMC	836.6	23.07	-0.80	20.12	<=38.45	Pass
			846.6	23.07	-0.80	20.12	<=38.45	Pass
			Subtest 1	826.4	21.32	-0.80	18.37	<=38.45
	HSDPA	Subtest 2	826.4	21.32	-0.80	18.37	<=38.45	Pass
		Subtest 3	826.4	21.32	-0.80	18.37	<=38.45	Pass
		Subtest 4	826.4	21.42	-0.80	18.47	<=38.45	Pass
		Subtest 1	836.6	21.36	-0.80	18.41	<=38.45	Pass
		Subtest 2	836.6	21.26	-0.80	18.31	<=38.45	Pass
		Subtest 3	836.6	21.26	-0.80	18.31	<=38.45	Pass
		Subtest 4	836.6	21.31	-0.80	18.36	<=38.45	Pass
		Subtest 1	846.6	21.35	-0.80	18.40	<=38.45	Pass
		Subtest 2	846.6	21.30	-0.80	18.35	<=38.45	Pass
		Subtest 3	846.6	21.27	-0.80	18.32	<=38.45	Pass
		Subtest 4	846.6	21.25	-0.80	18.30	<=38.45	Pass
	HSUPA	Subtest 1	826.4	19.51	-0.80	16.56	<=38.45	Pass
		Subtest 2	826.4	19.64	-0.80	16.69	<=38.45	Pass
		Subtest 3	826.4	19.46	-0.80	16.51	<=38.45	Pass
		Subtest 4	826.4	19.63	-0.80	16.68	<=38.45	Pass
		Subtest 5	826.4	19.45	-0.80	16.50	<=38.45	Pass
		Subtest 1	836.6	19.07	-0.80	16.12	<=38.45	Pass
		Subtest 2	836.6	18.87	-0.80	15.92	<=38.45	Pass
		Subtest 3	836.6	18.99	-0.80	16.04	<=38.45	Pass
		Subtest 4	836.6	18.98	-0.80	16.03	<=38.45	Pass
		Subtest 5	836.6	19.03	-0.80	16.08	<=38.45	Pass
		Subtest 1	846.6	19.32	-0.80	16.37	<=38.45	Pass
		Subtest 2	846.6	18.76	-0.80	15.81	<=38.45	Pass
		Subtest 3	846.6	19.35	-0.80	16.40	<=38.45	Pass
		Subtest 4	846.6	19.05	-0.80	16.10	<=38.45	Pass
		Subtest 5	846.6	19.07	-0.80	16.12	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

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6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

6.2.1 E.U.T. Operation

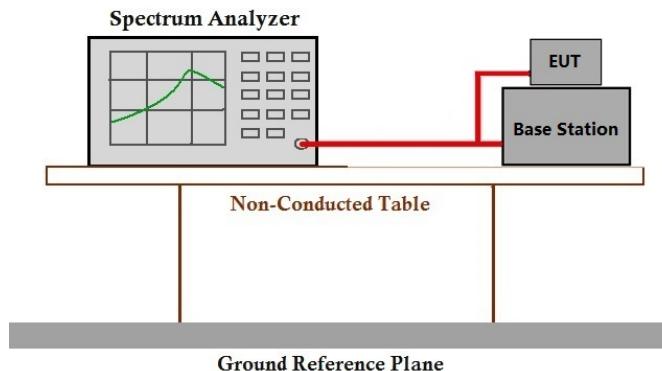
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode_Keep the EUT in transmitting mode

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data



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Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	1.84	<=13	Pass
			1880	2.39	<=13	Pass
			1907.6	3.26	<=13	Pass
	HSDPA	Subtest 1	1852.4	4.82	<=13	Pass
			1880	5.90	<=13	Pass
			1907.6	6.29	<=13	Pass
	HSUPA	Subtest 1	1852.4	4.88	<=13	Pass
			1880	5.90	<=13	Pass
			1907.6	6.01	<=13	Pass

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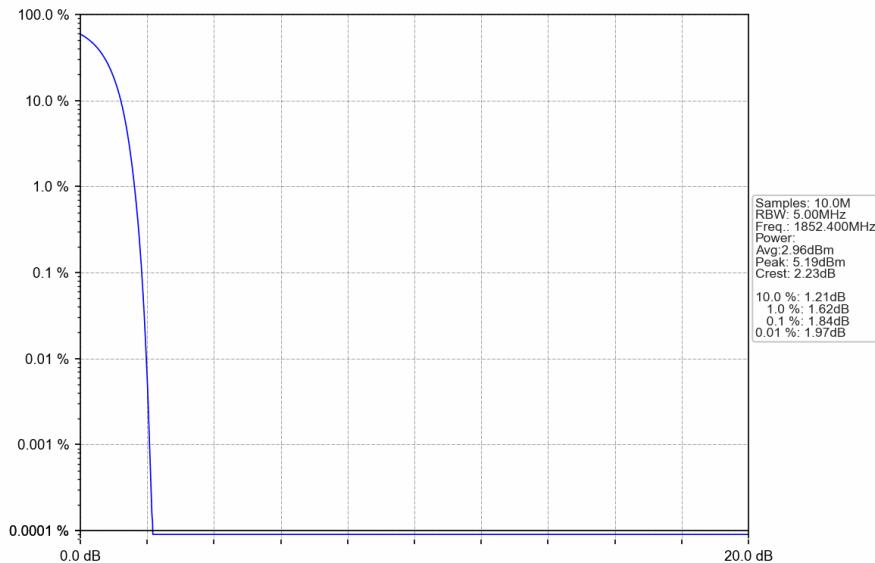
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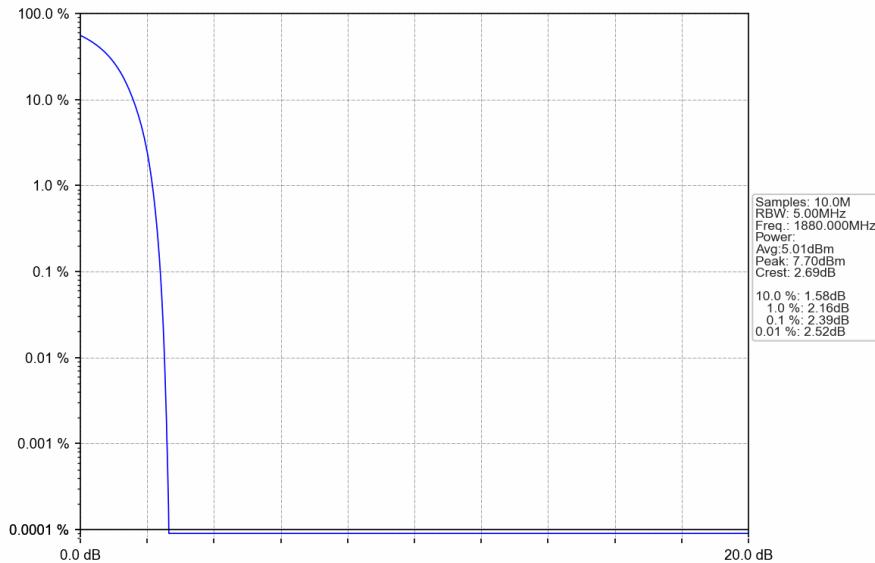
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Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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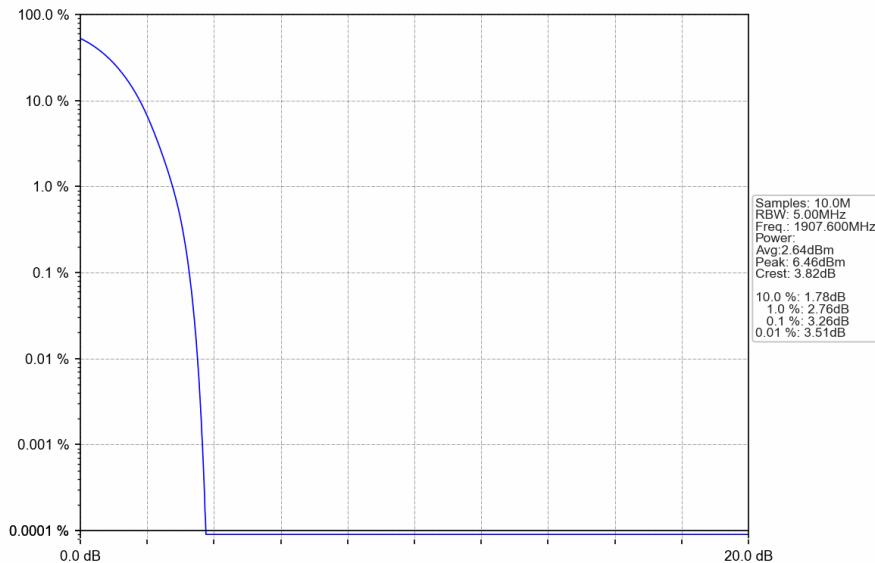
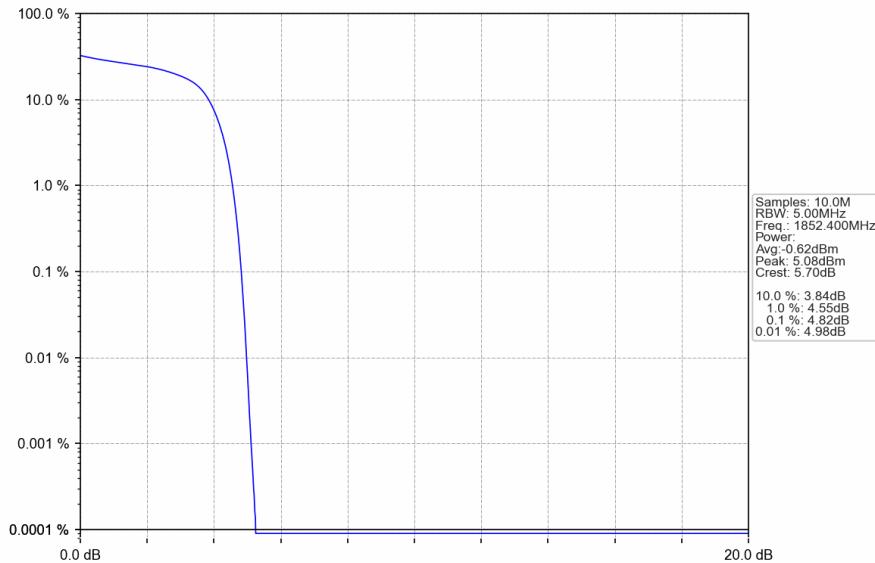
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV**Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV**

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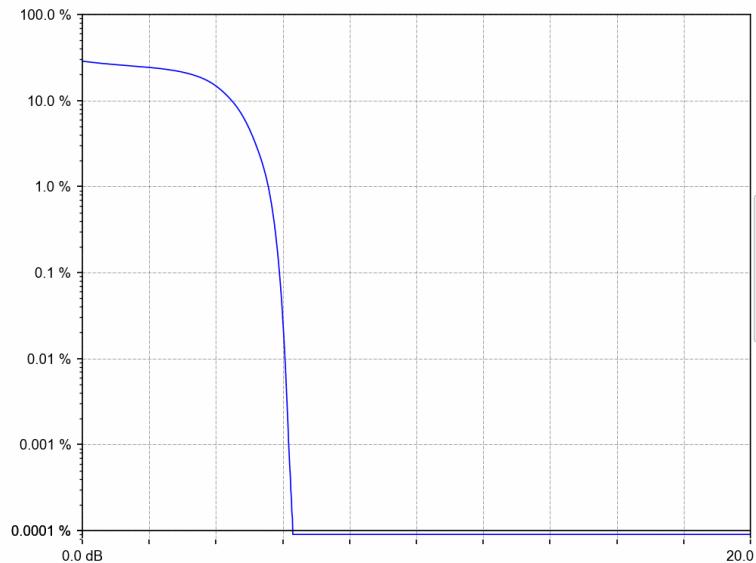
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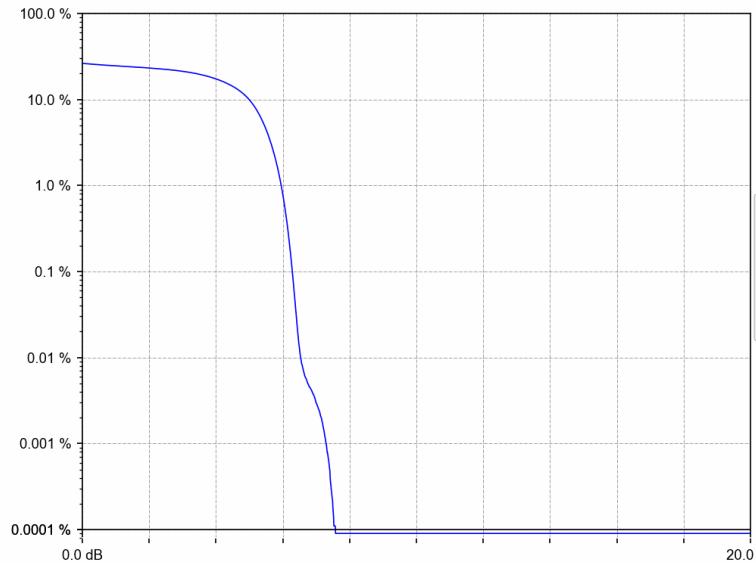
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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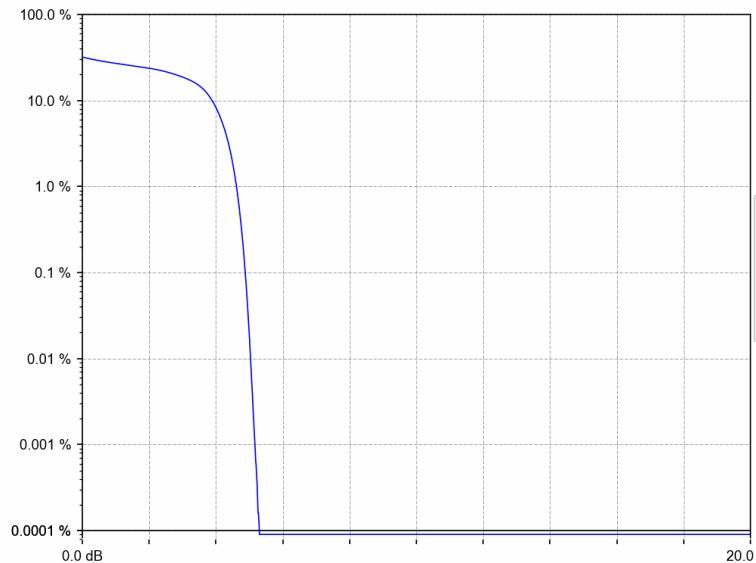
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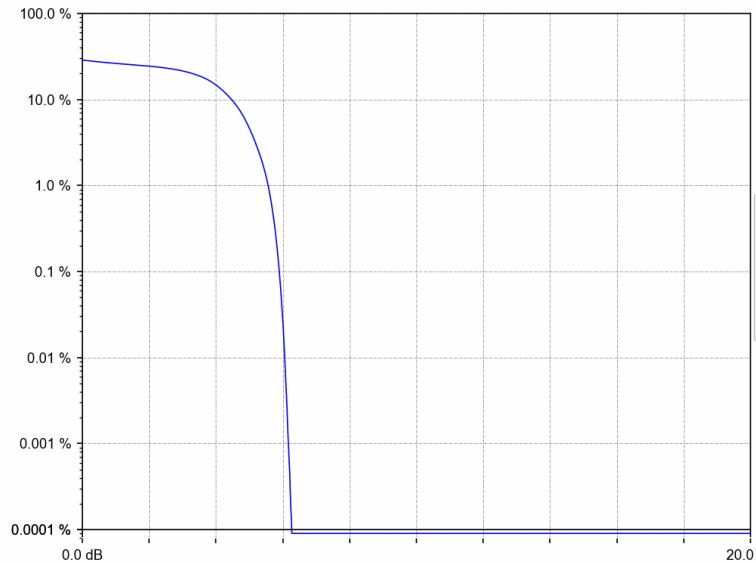
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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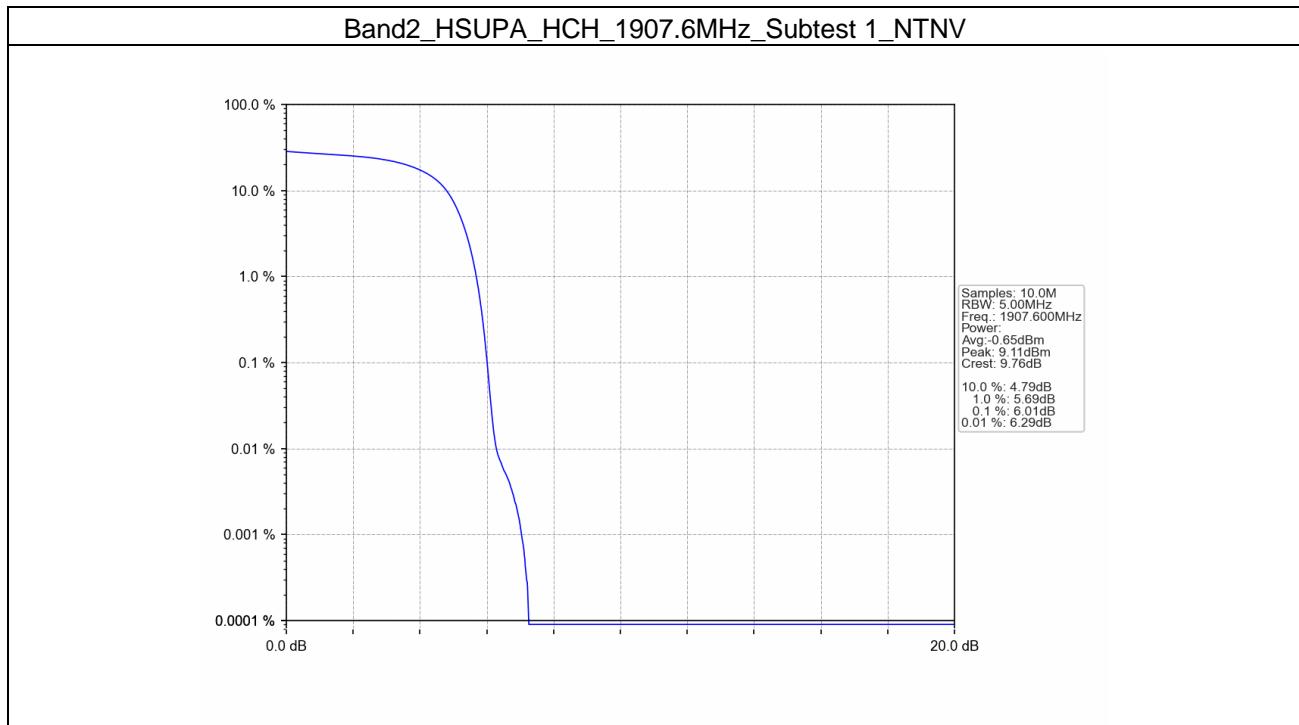
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Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.84	<=13	Pass
			1732.6	2.76	<=13	Pass
			1752.6	2.90	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.69	<=13	Pass
			1732.6	5.65	<=13	Pass
			1752.6	5.69	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.65	<=13	Pass
			1732.6	5.64	<=13	Pass
			1752.6	5.73	<=13	Pass

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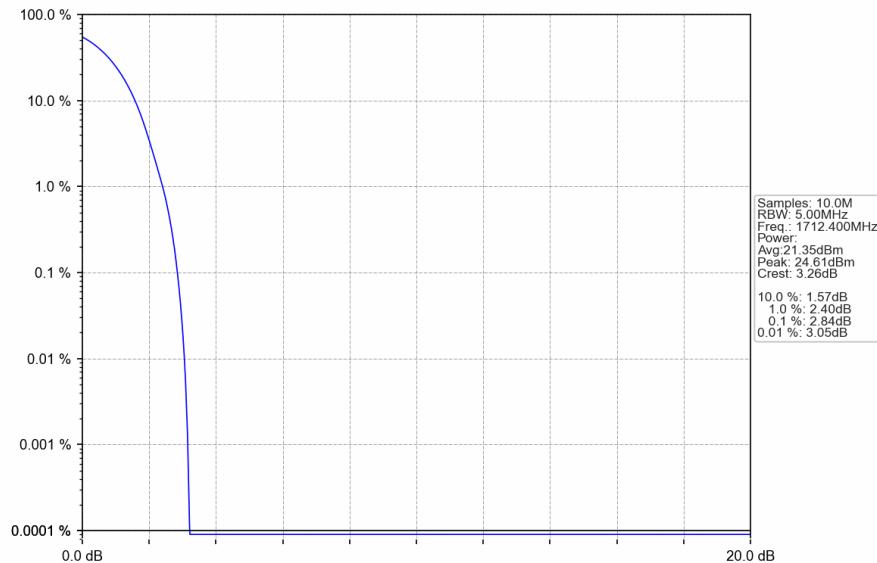
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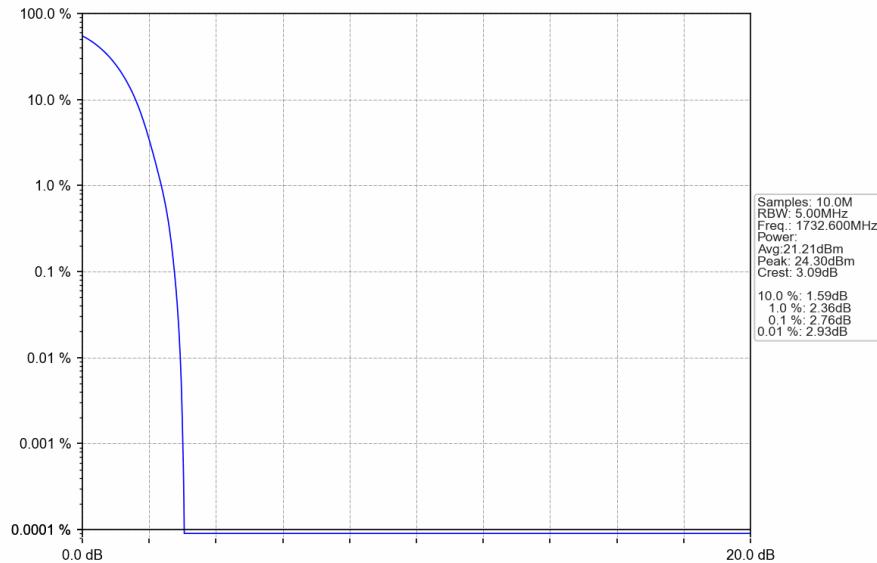
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Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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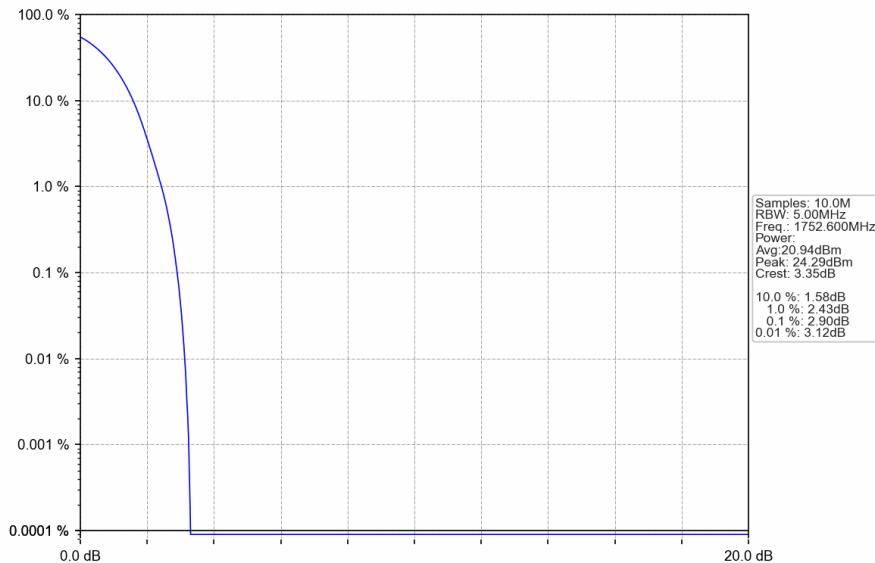
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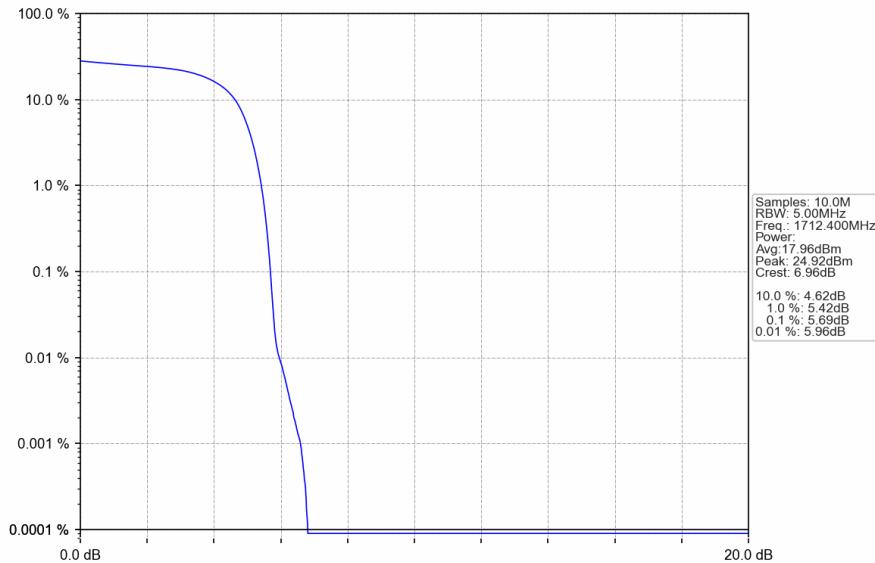
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Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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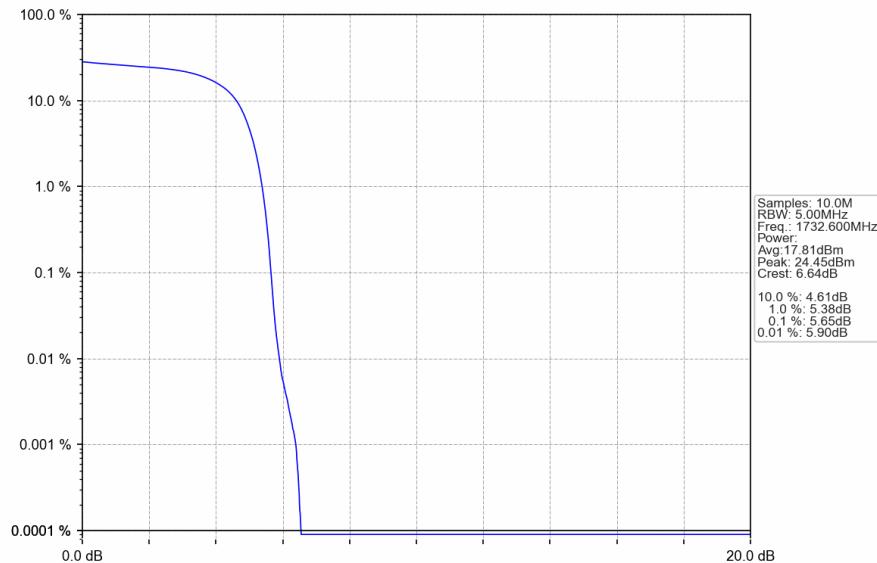
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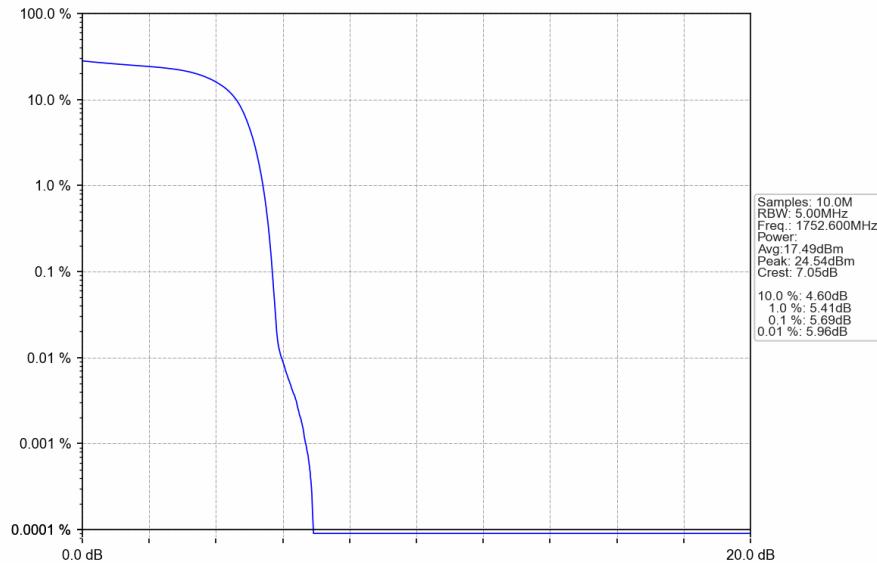
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Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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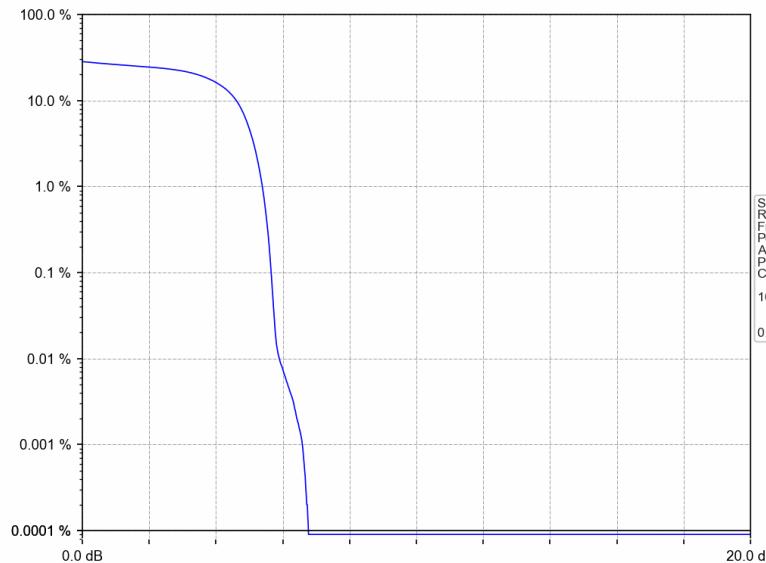
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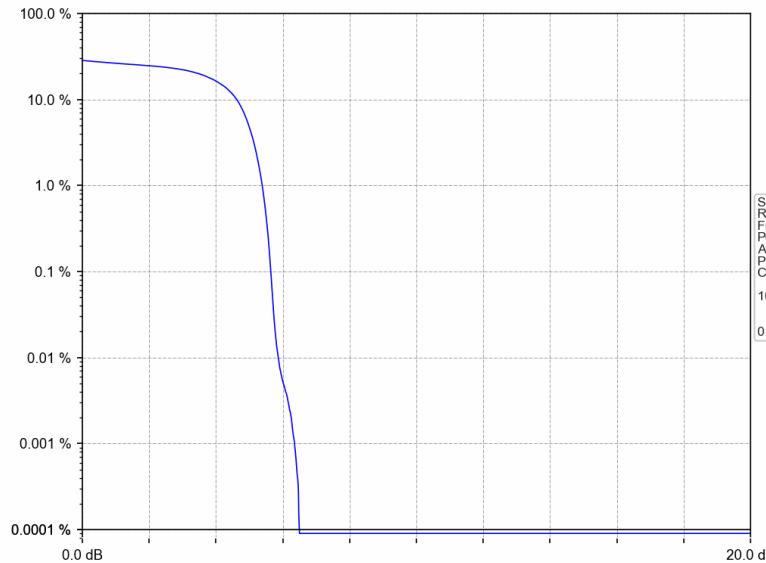
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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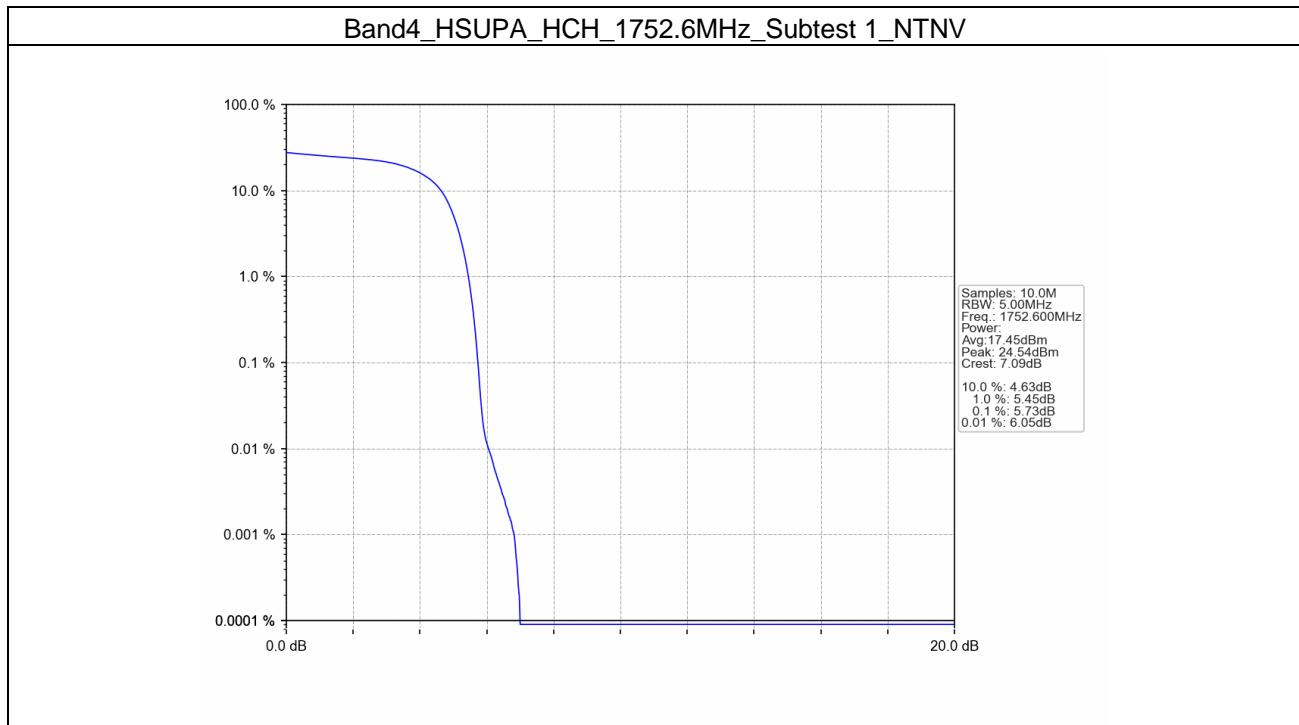
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Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.01	<=13	Pass
			836.6	2.99	<=13	Pass
			846.6	3.02	<=13	Pass
	HSDPA	Subtest 1	826.4	5.78	<=13	Pass
			836.6	5.81	<=13	Pass
			846.6	5.99	<=13	Pass
	HSUPA	Subtest 1	826.4	5.81	<=13	Pass
			836.6	5.85	<=13	Pass
			846.6	5.94	<=13	Pass

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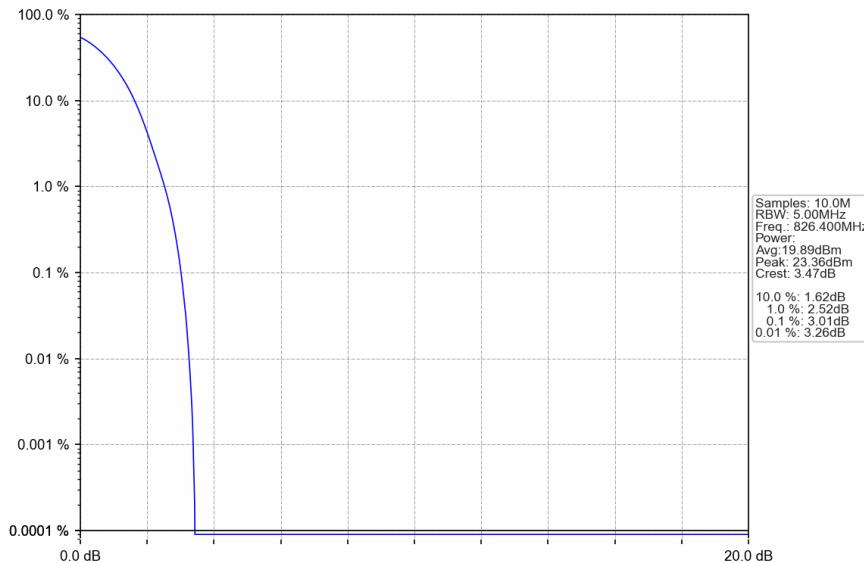
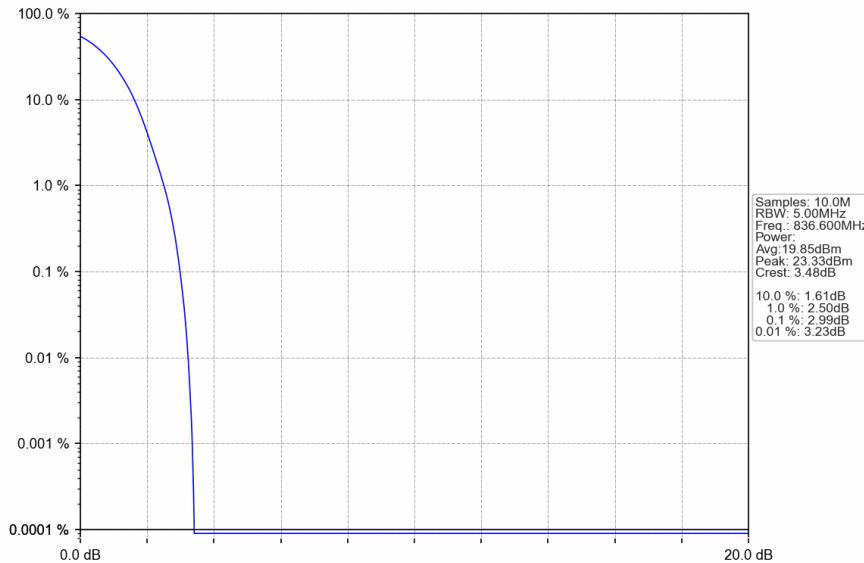


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Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV**Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV**

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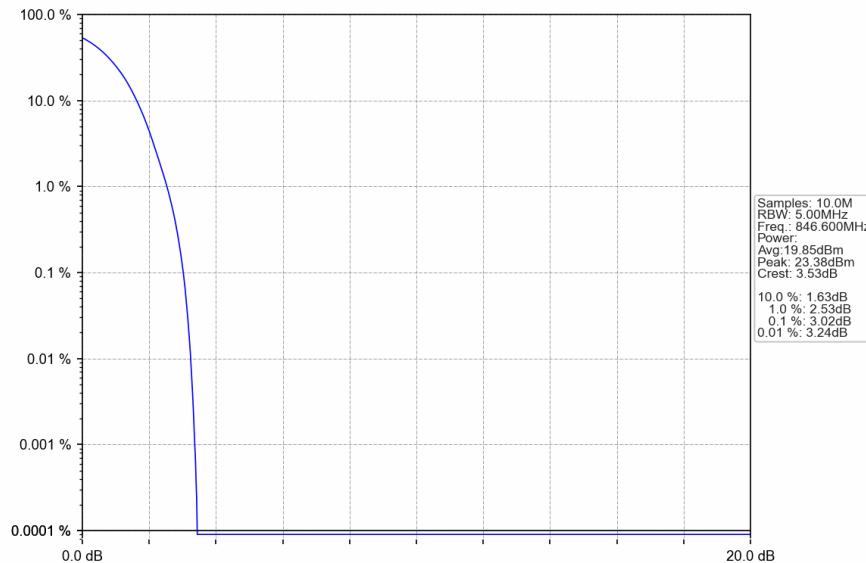
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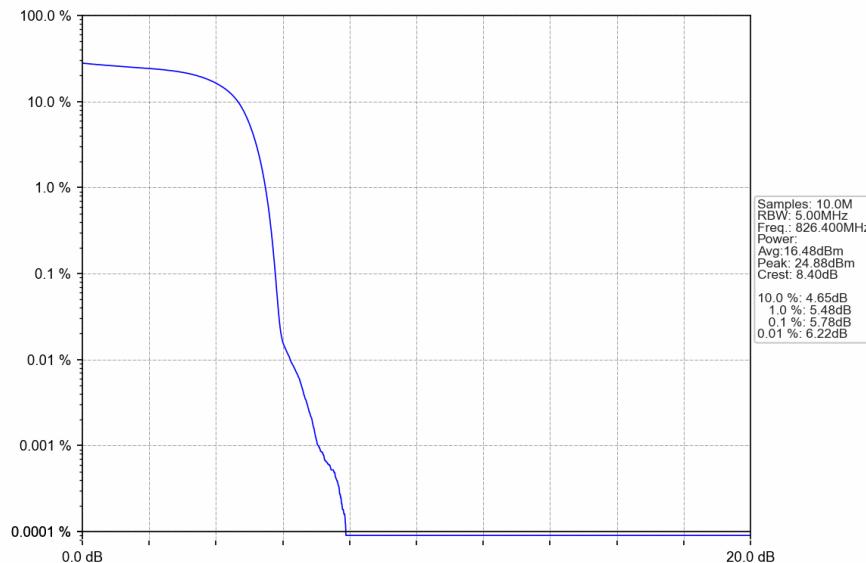
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



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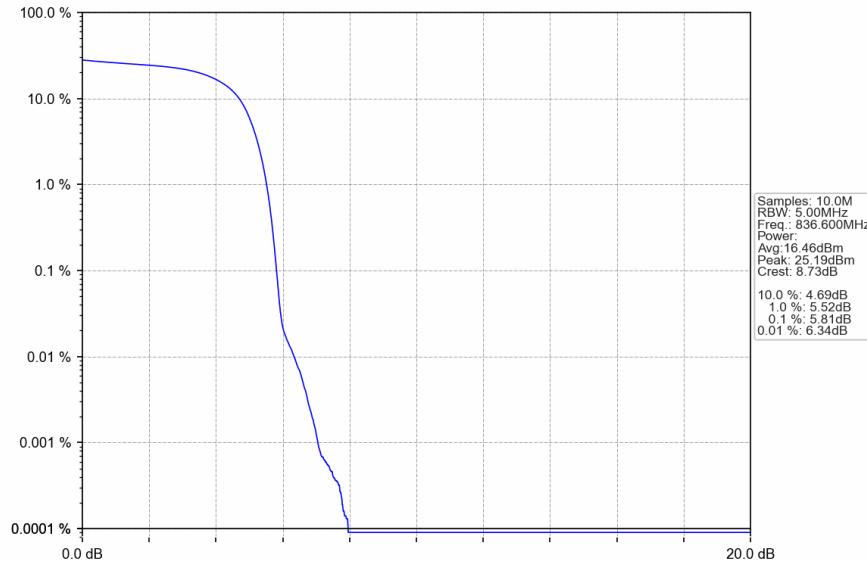
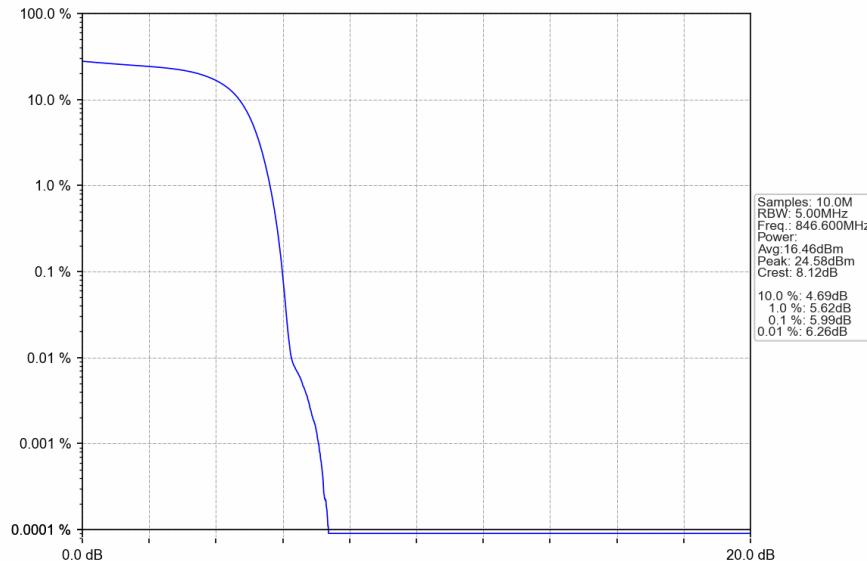
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Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV**Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV**

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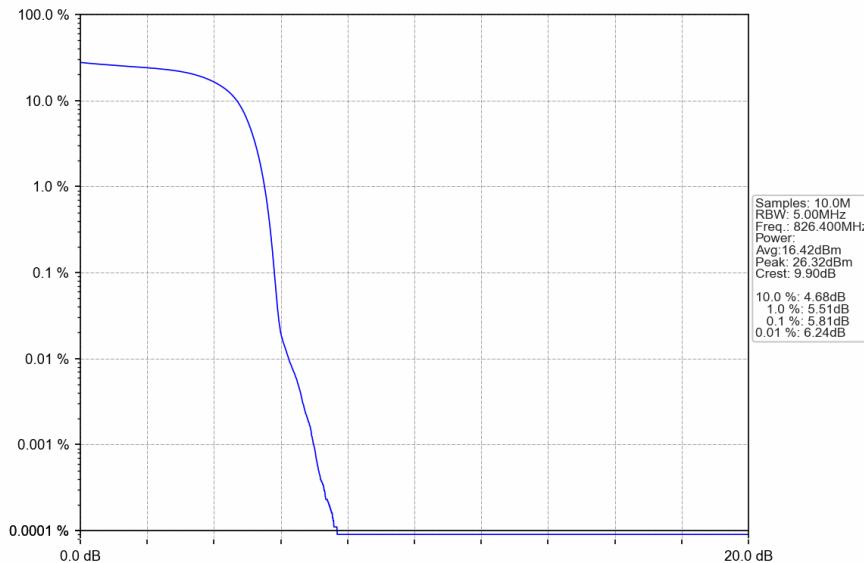
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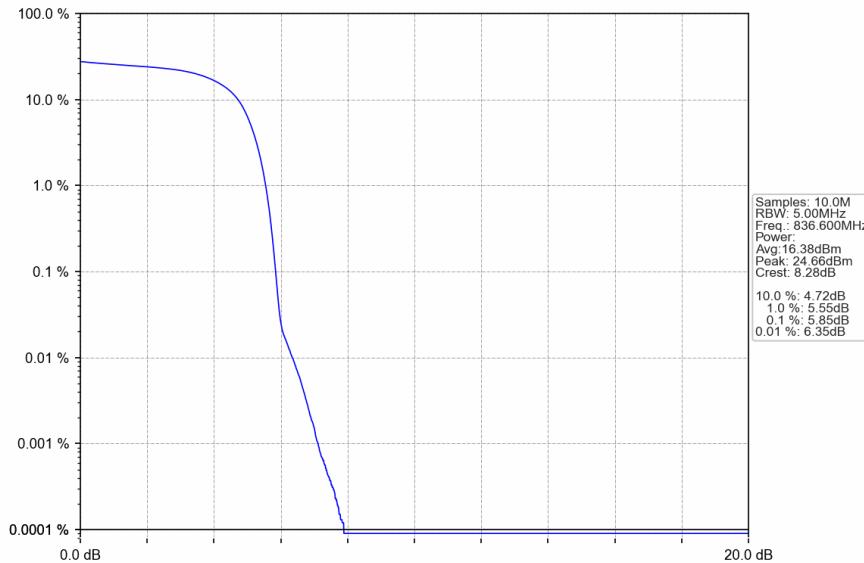
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Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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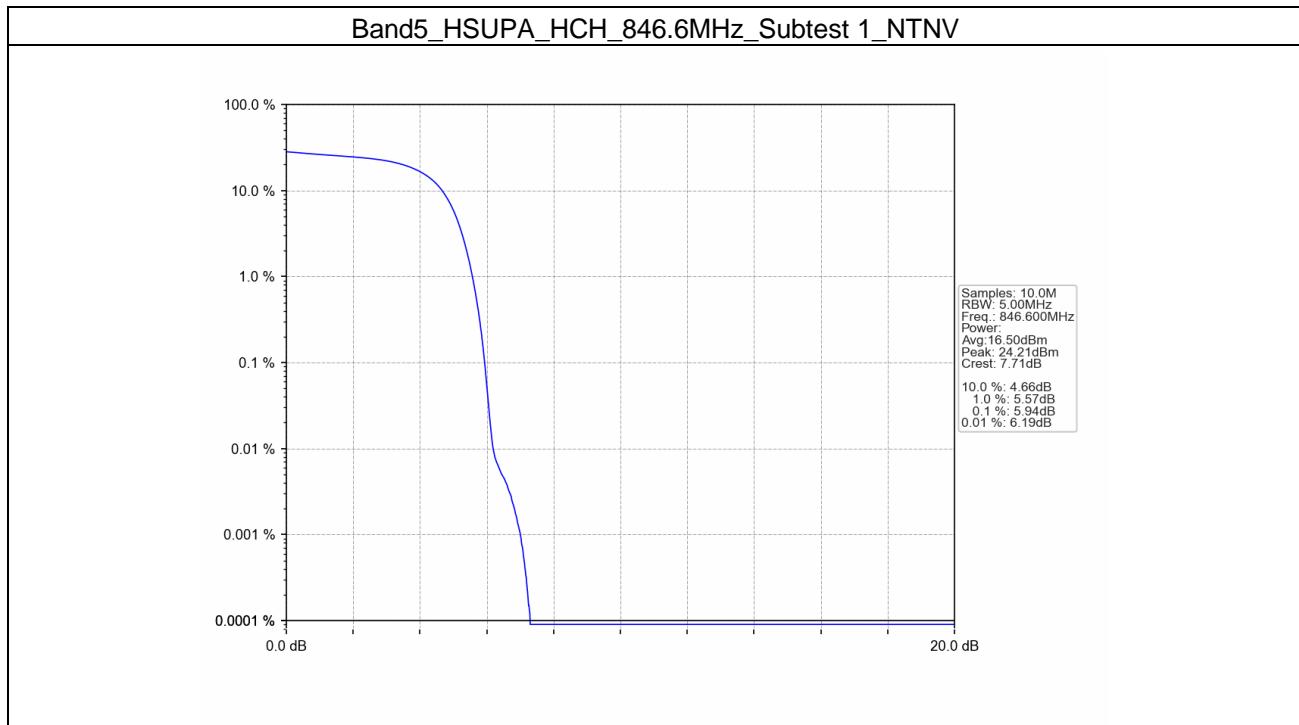
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6.3 Modulation Characteristics

Test Requirement: §2.1047

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: Digital modulation

6.3.1 E.U.T. Operation

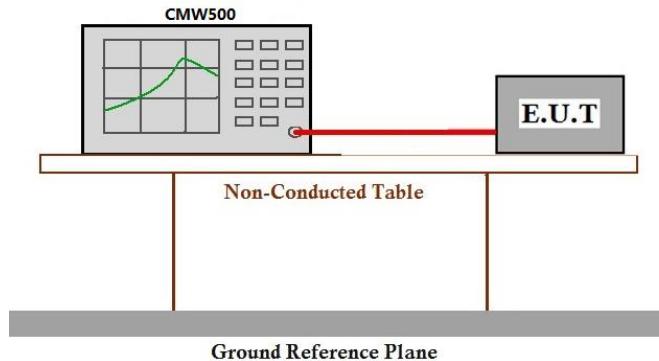
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode_Keep the EUT in transmitting mode

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Pass, it's a digital modulation device.



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6.4 Bandwidth

Test Requirement: §2.1049(h)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: OBW: No limit
EBW: No limit

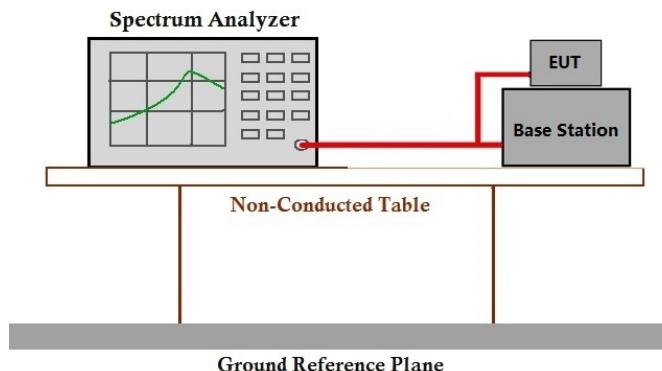
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode_Keep the EUT in transmitting mode

6.4.3 Test Setup Diagram**6.4.4 Measurement Procedure and Data**

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ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.139	Pass
			1880	4.128	Pass
			1907.6	4.139	Pass
	HSDPA	Subtest 1	1852.4	4.141	Pass
			1880	4.188	Pass
			1907.6	4.137	Pass
	HSUPA	Subtest 1	1852.4	4.137	Pass
			1880	4.175	Pass
			1907.6	4.129	Pass

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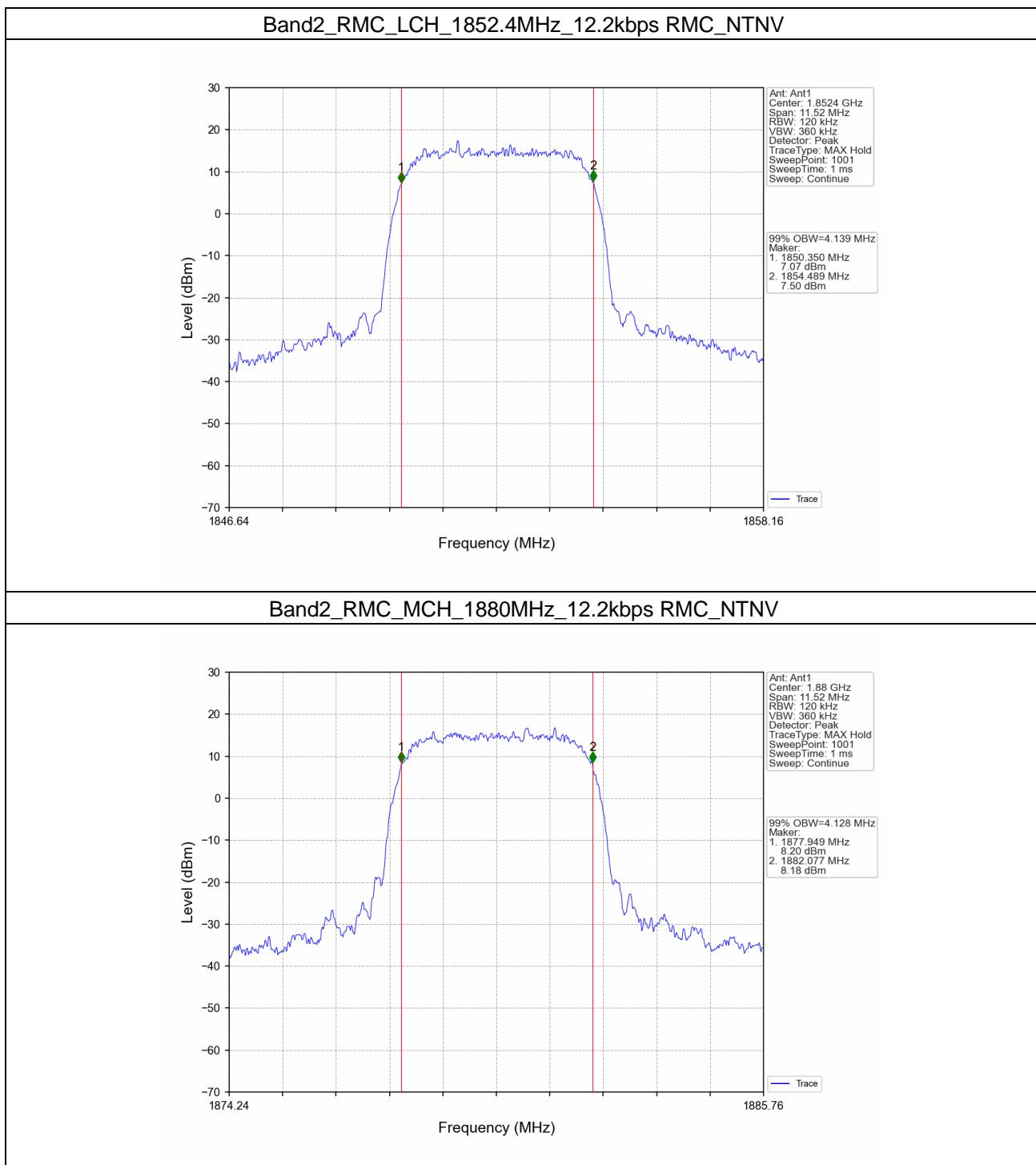
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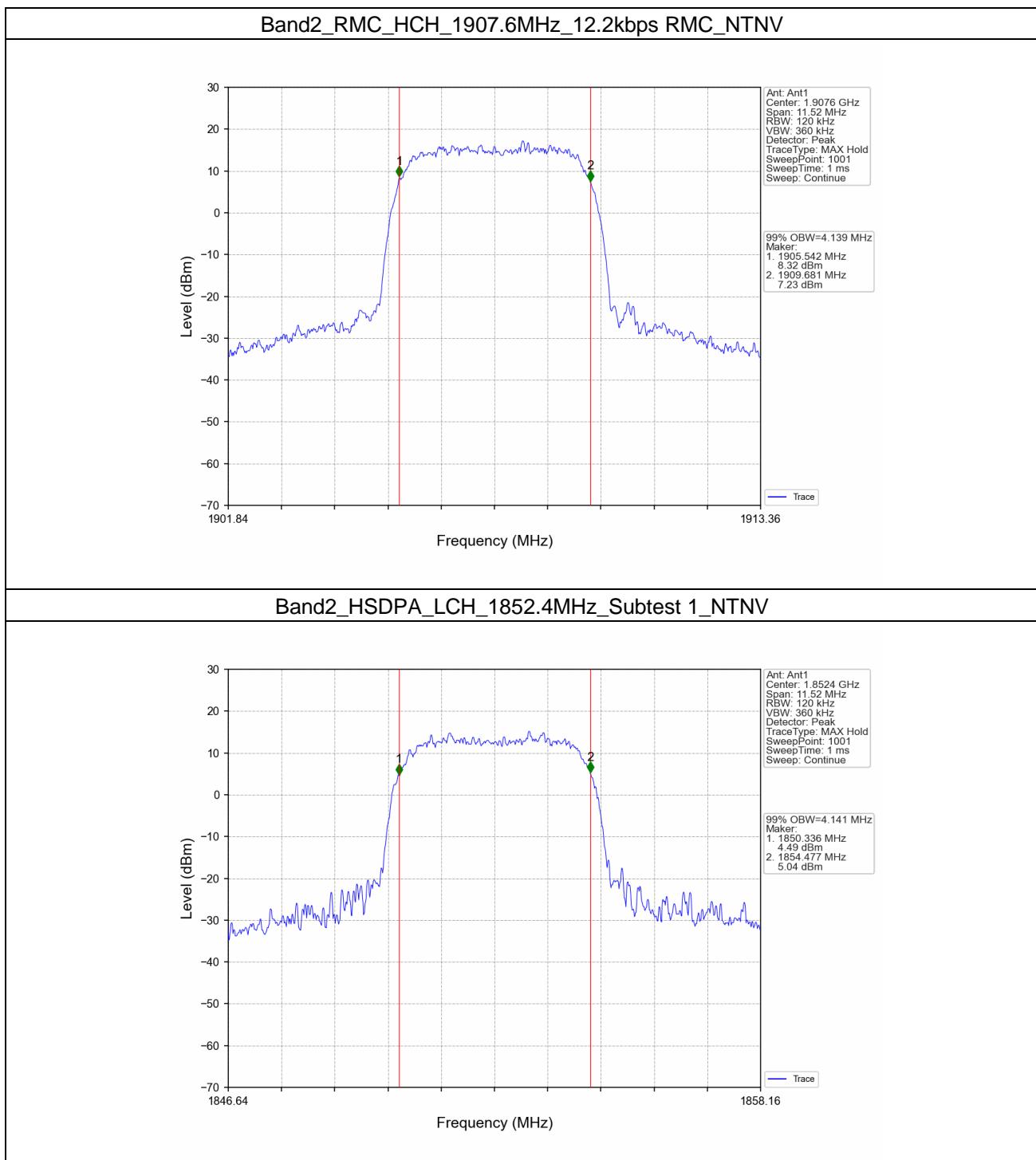
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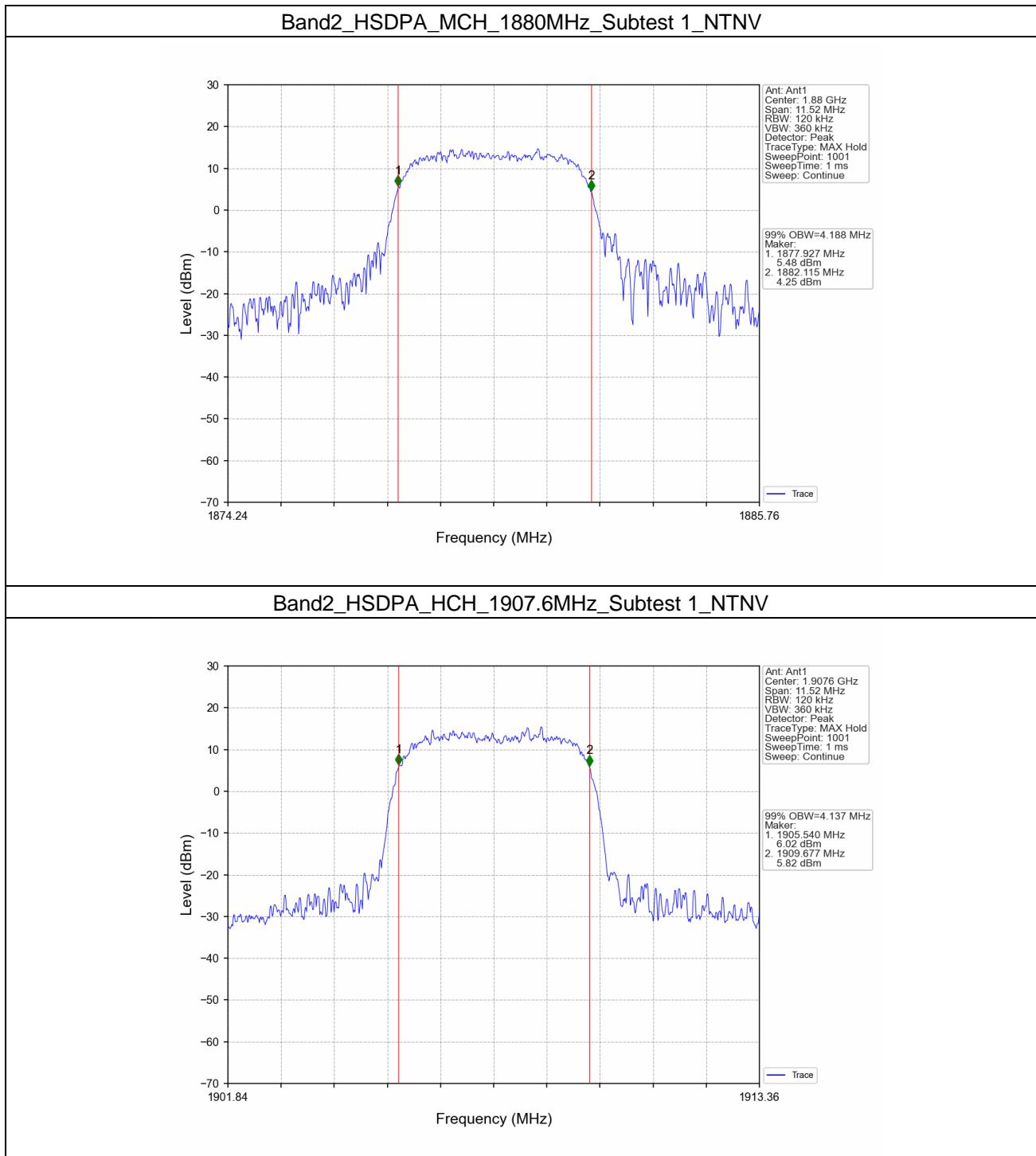


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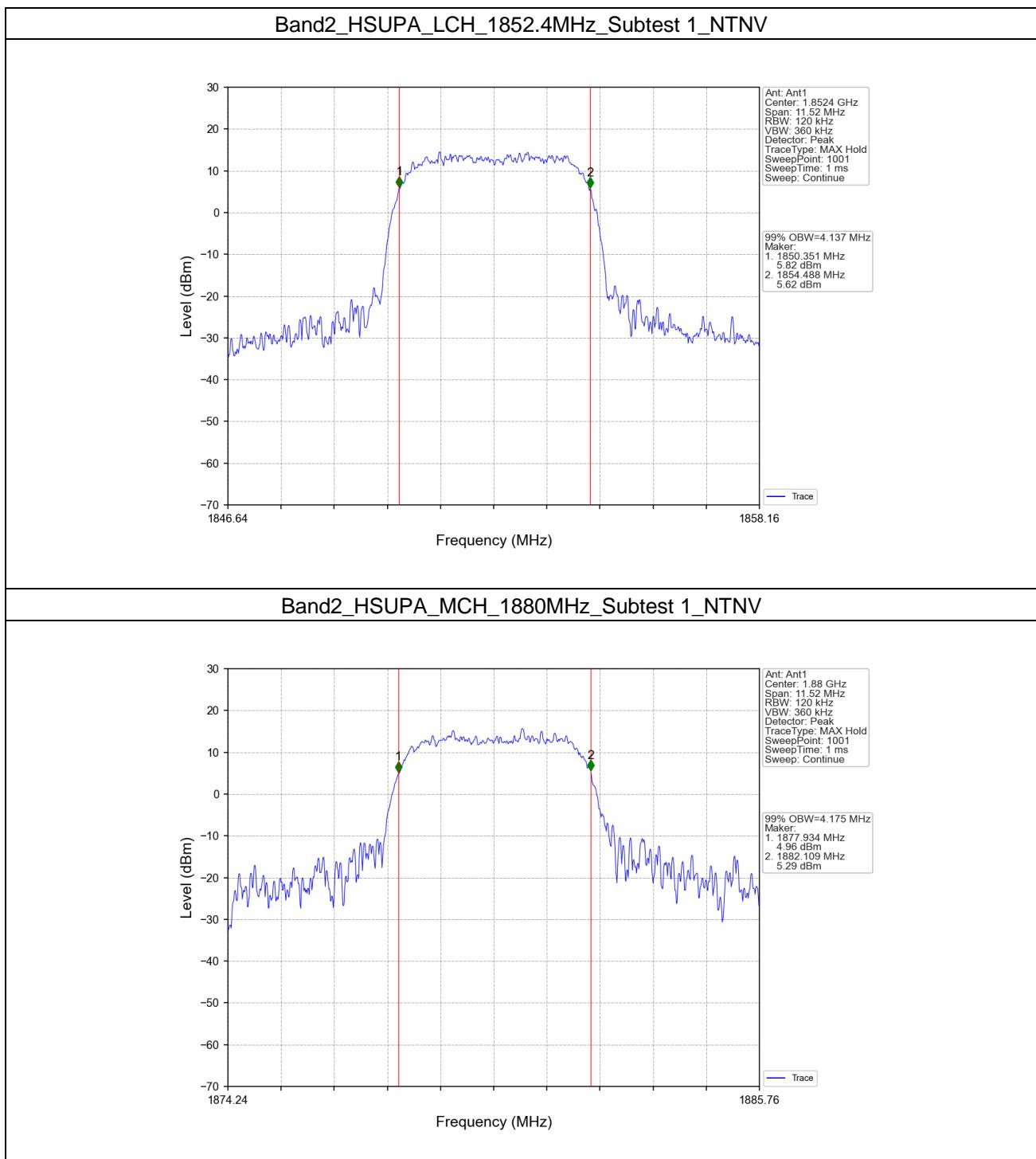
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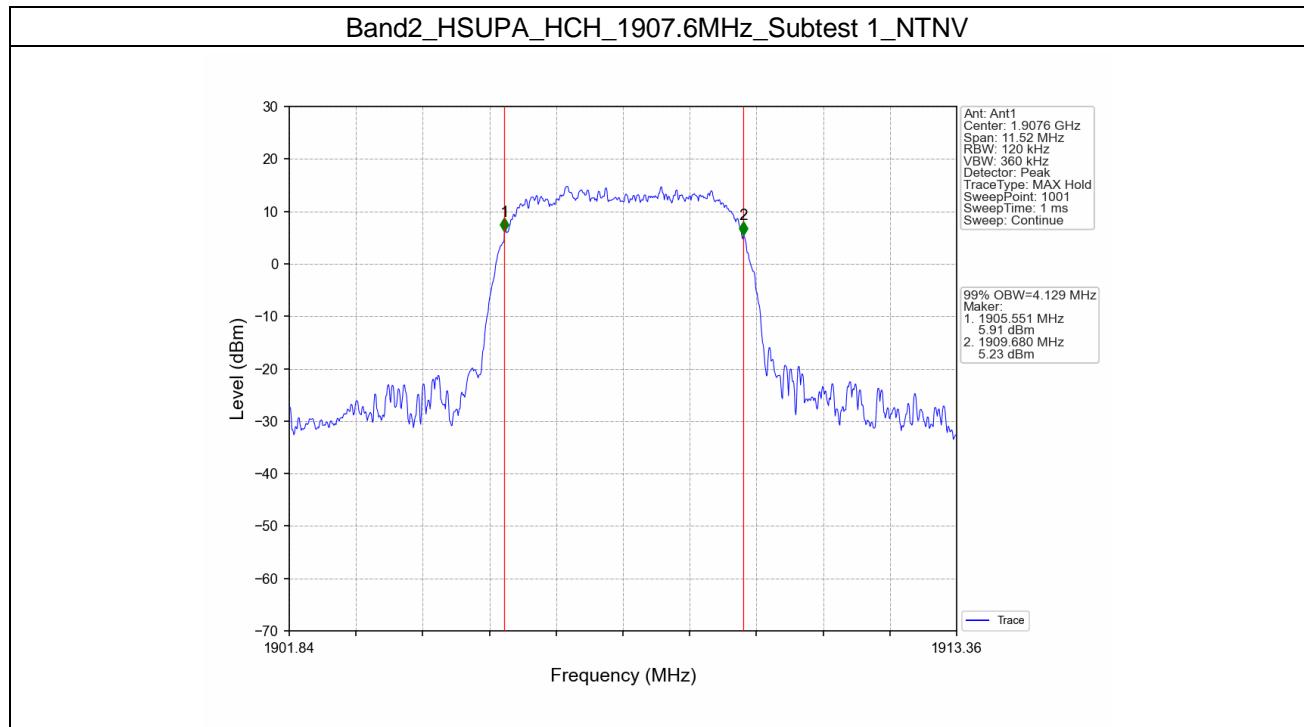


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Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.740	Pass
			1880	4.733	Pass
			1907.6	4.741	Pass
	HSDPA	Subtest 1	1852.4	4.717	Pass
			1880	5.468	Pass
			1907.6	4.712	Pass
	HSUPA	Subtest 1	1852.4	4.740	Pass
			1880	4.983	Pass
			1907.6	4.745	Pass

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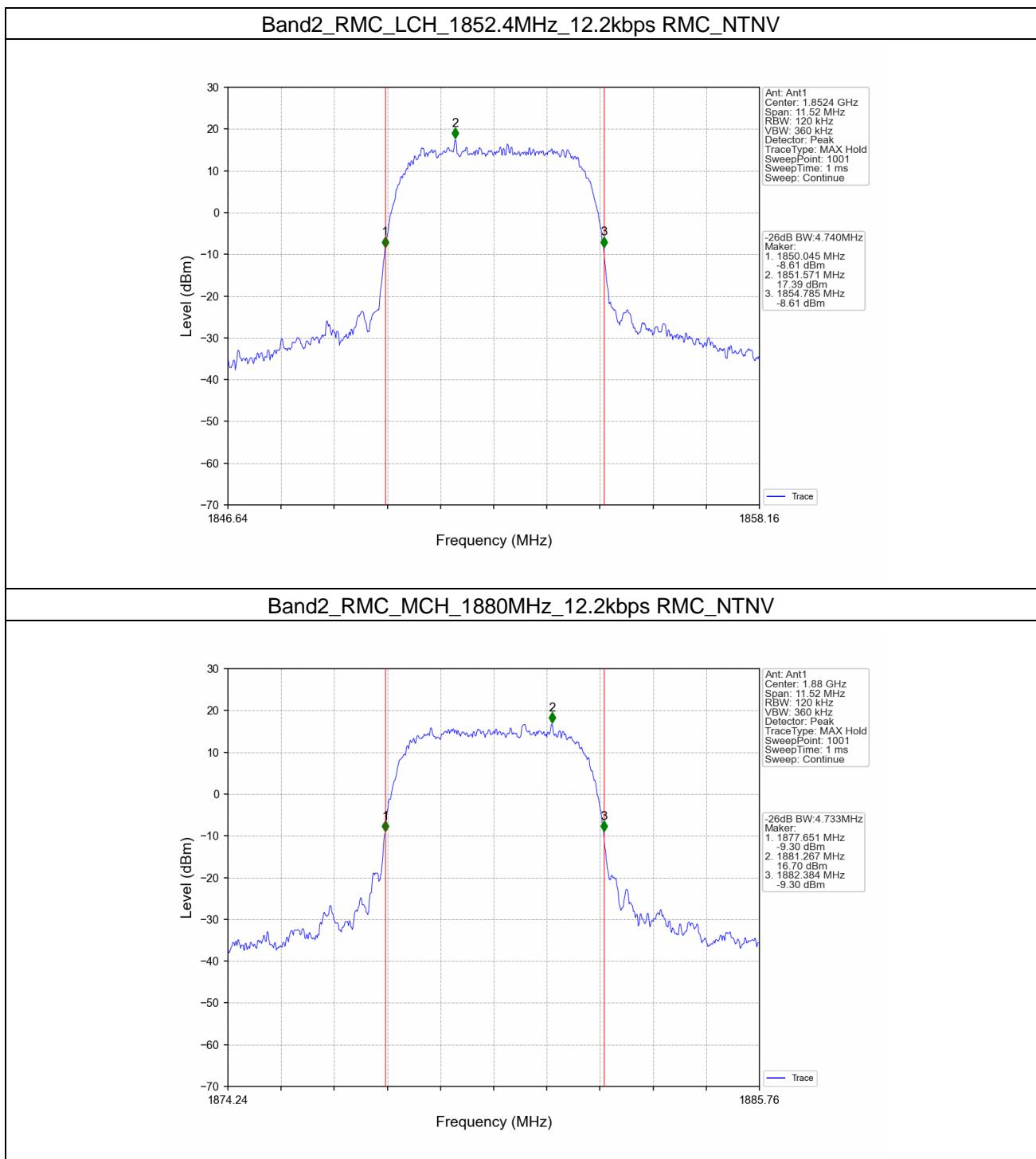


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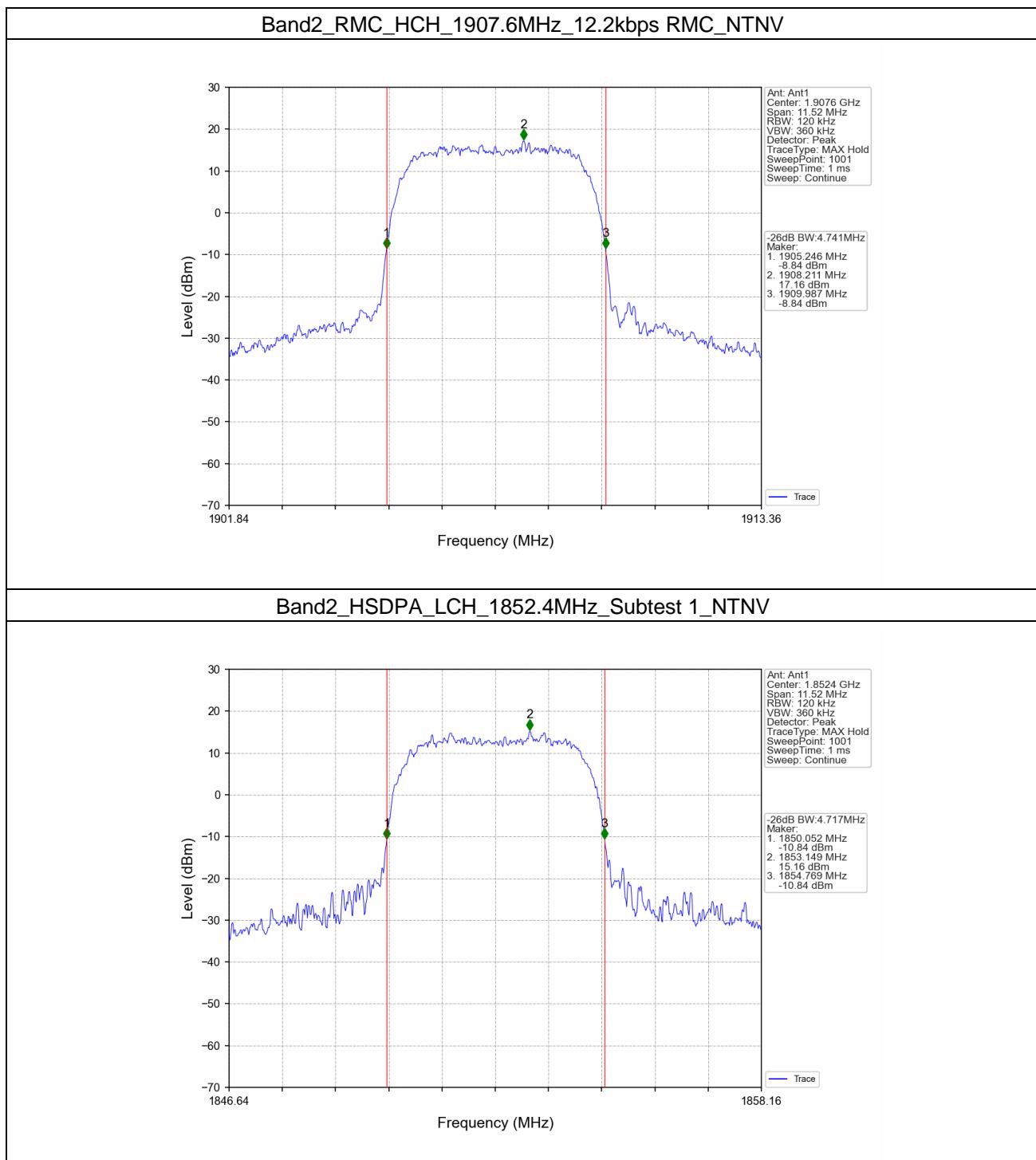


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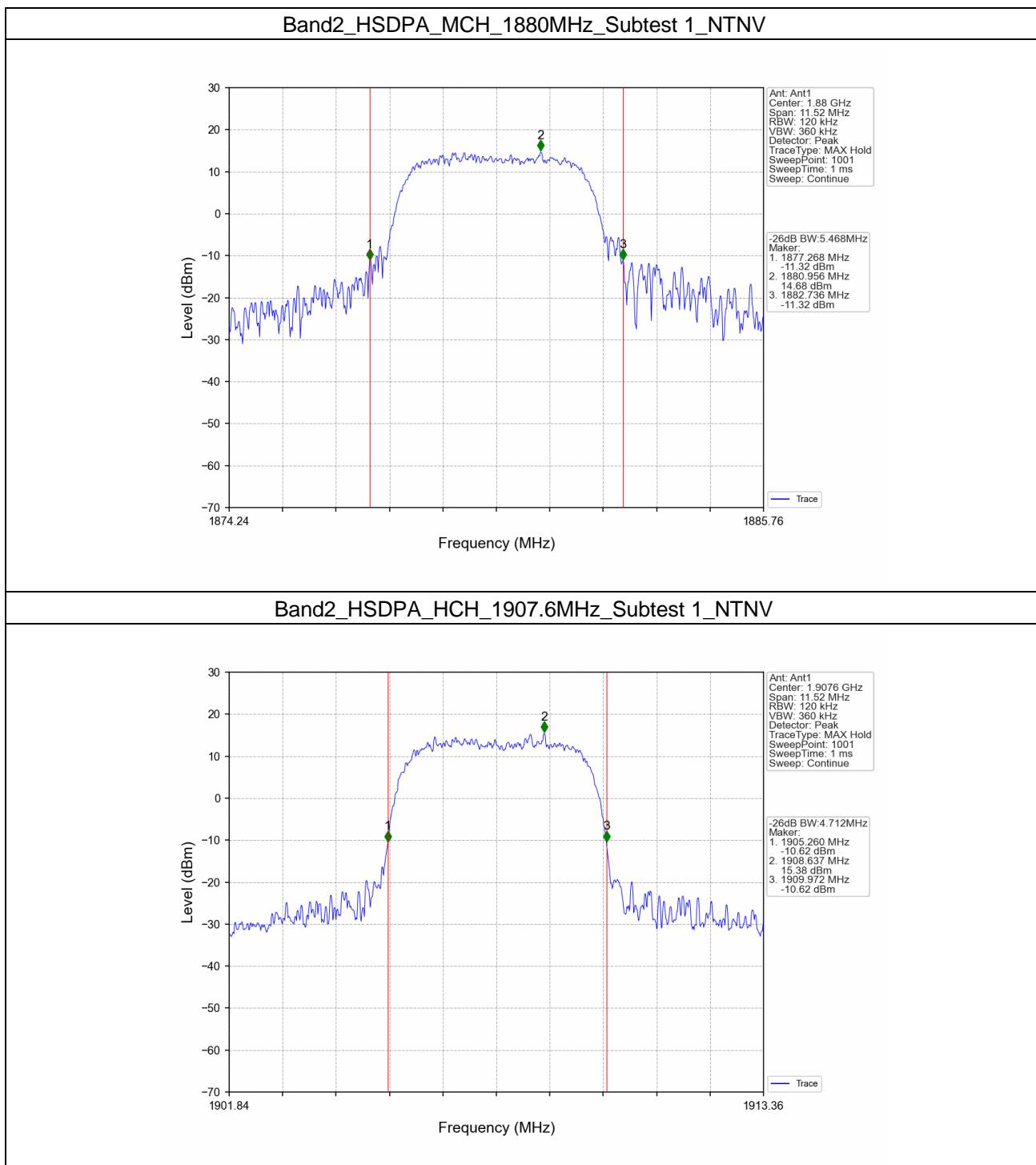


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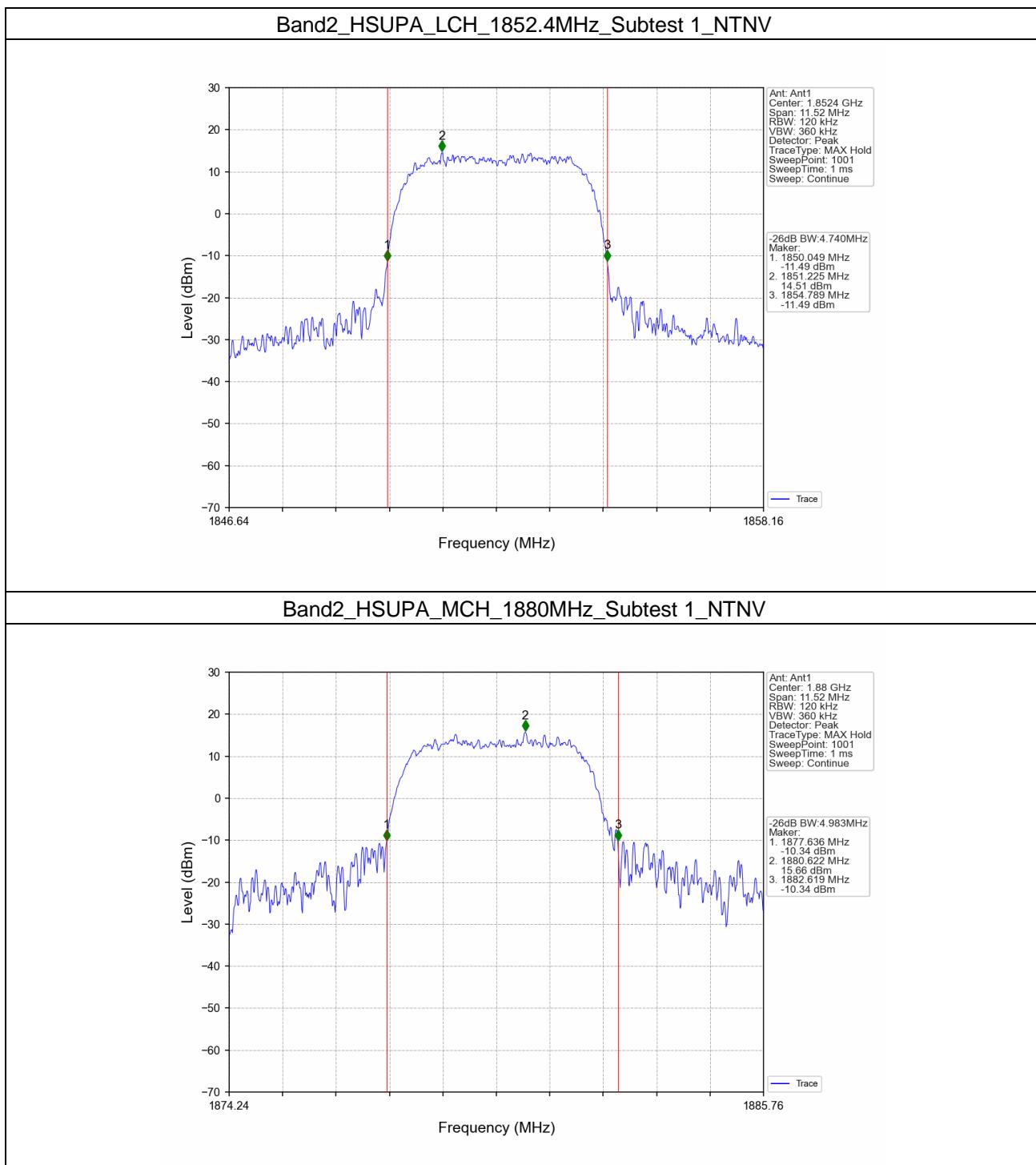
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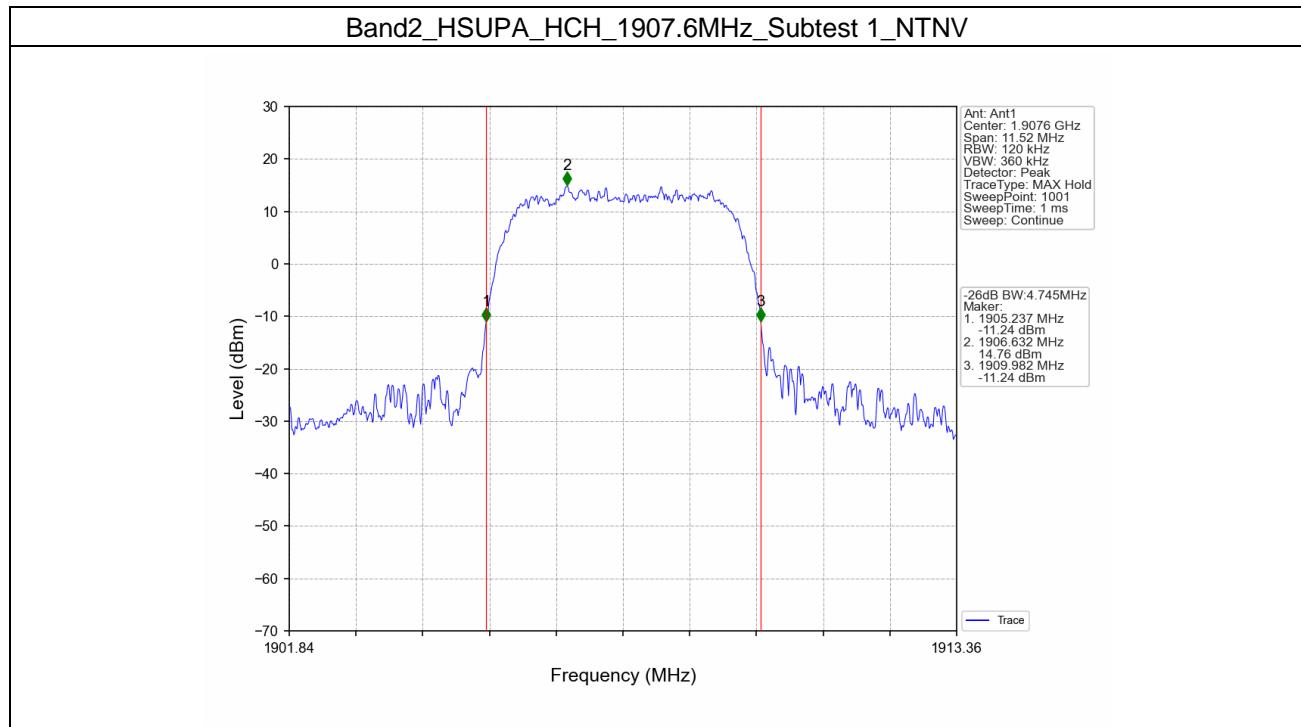
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Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset			
NTNV	RMC	12.2kbps RMC	1712.4	4.151	Pass
			1732.6	4.141	Pass
			1752.6	4.123	Pass
	HSDPA	Subtest 1	1712.4	4.119	Pass
			1732.6	4.151	Pass
			1752.6	4.156	Pass
	HSUPA	Subtest 1	1712.4	4.134	Pass
			1732.6	4.145	Pass
			1752.6	4.144	Pass

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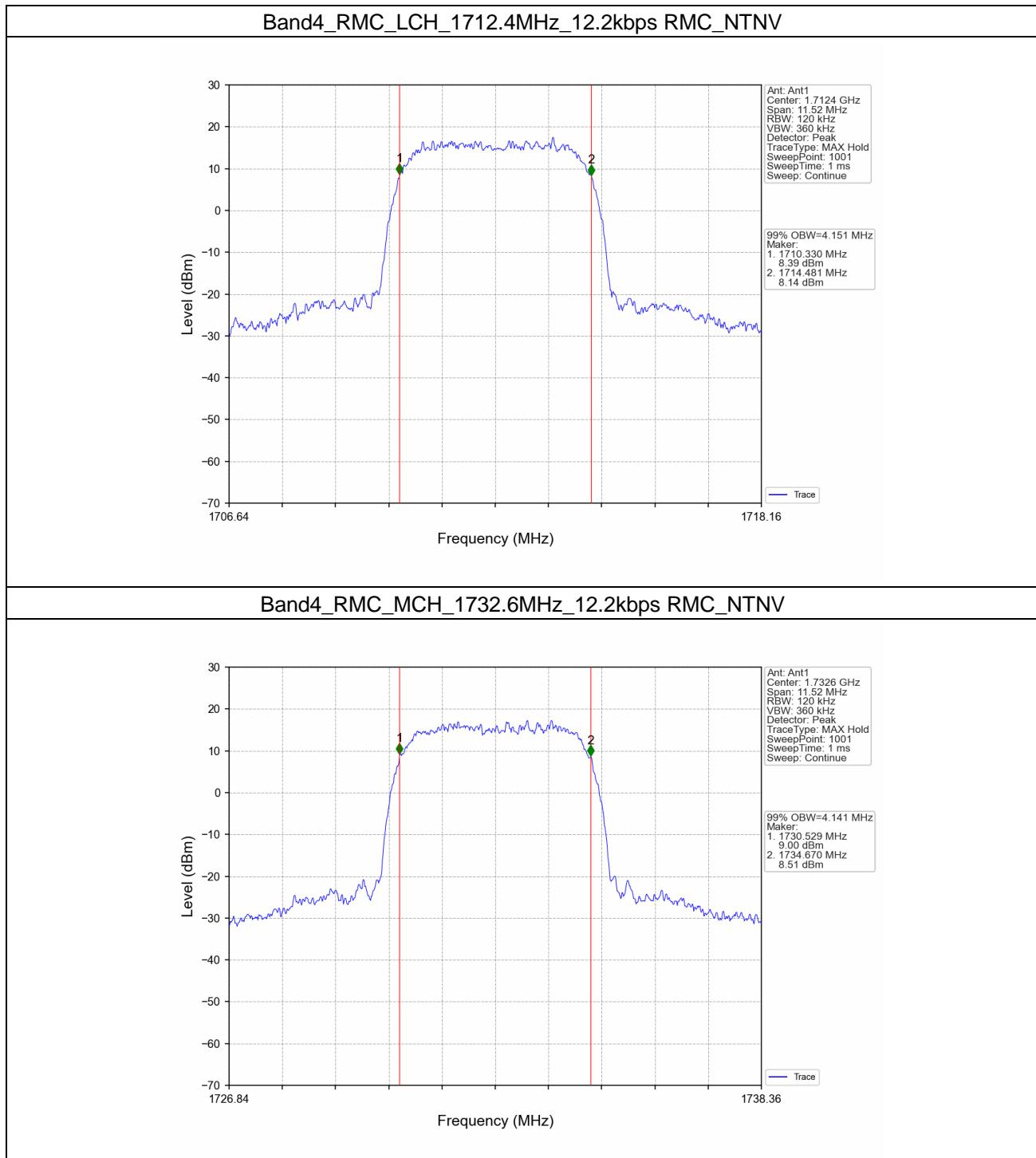


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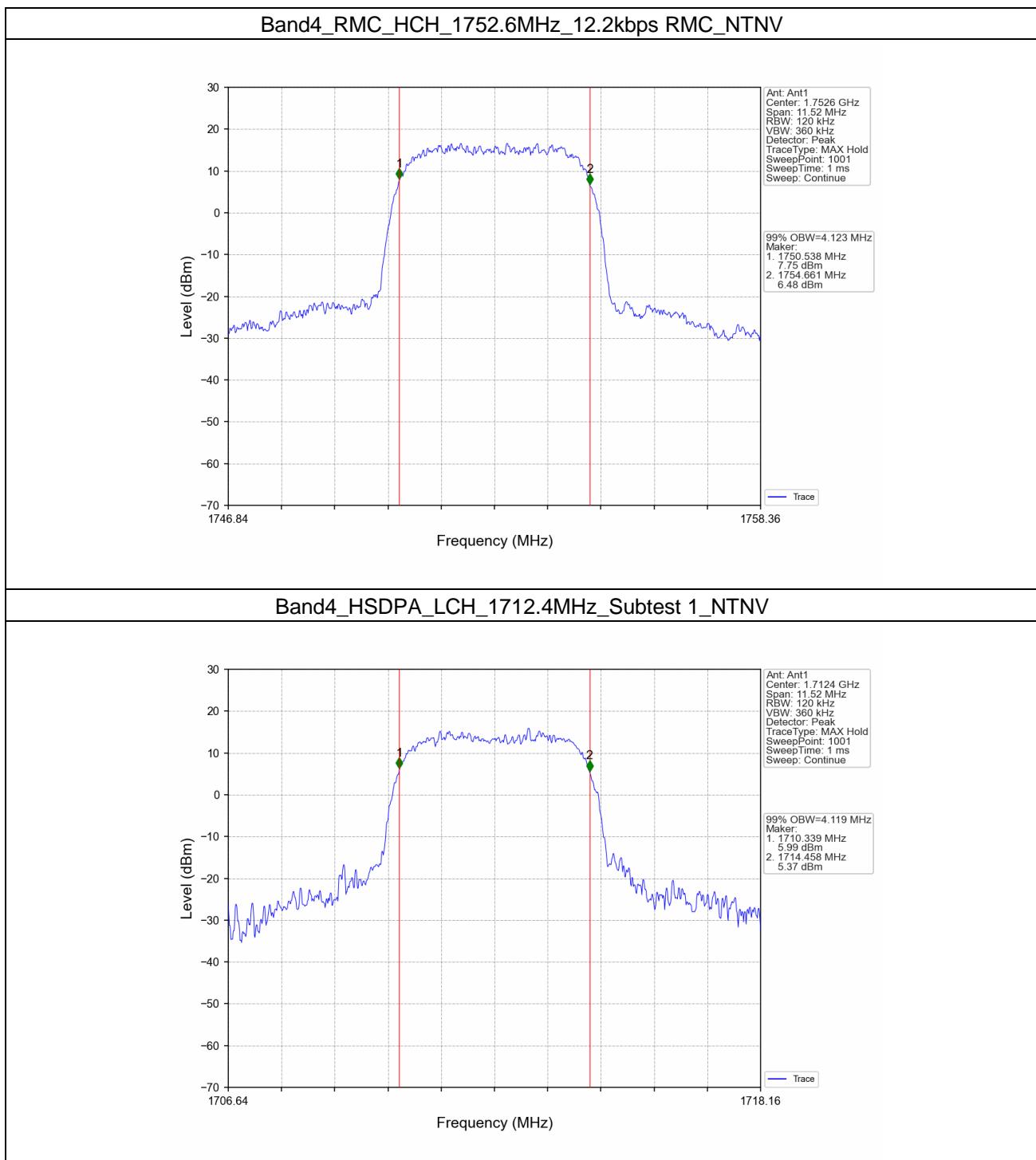
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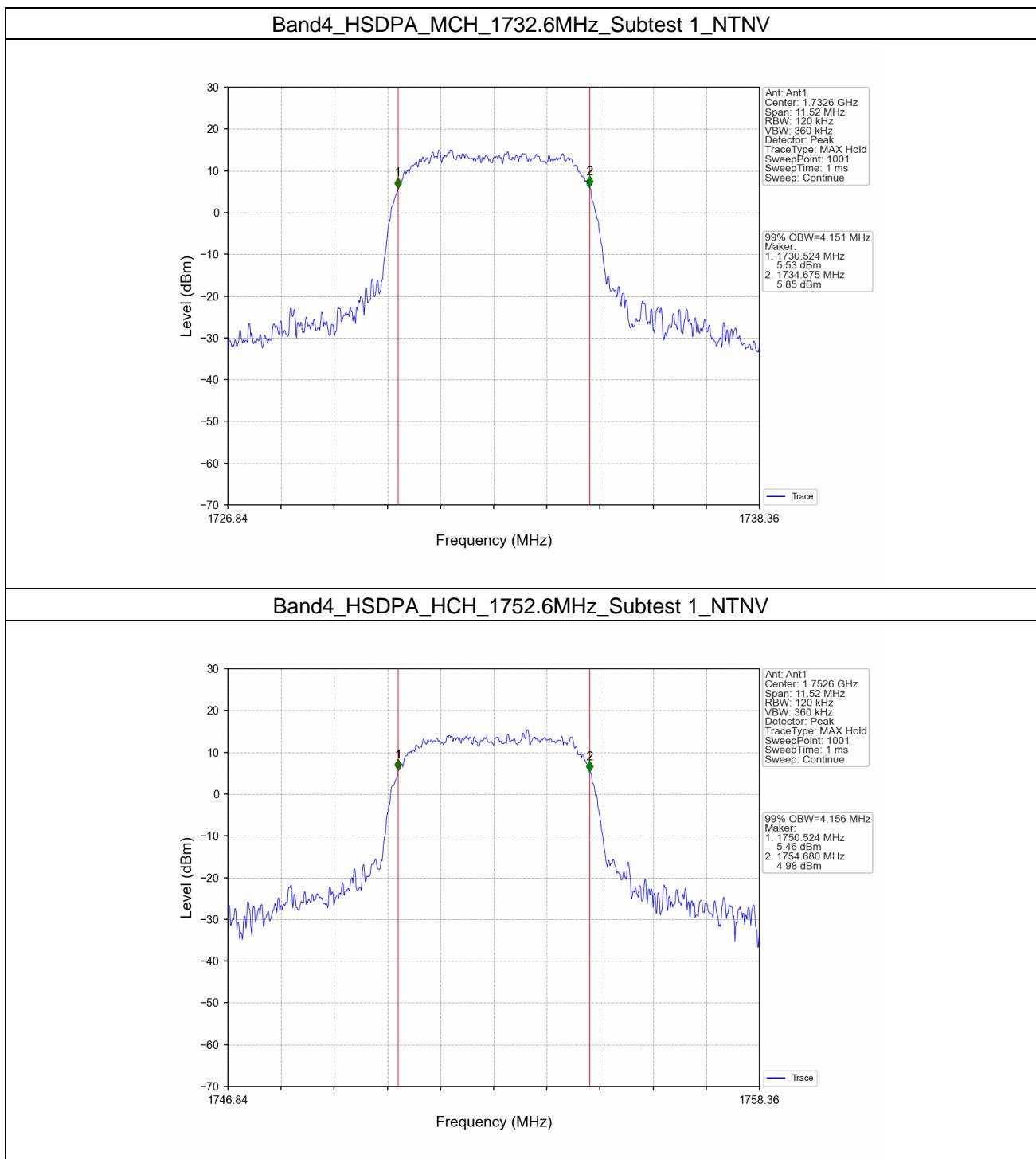


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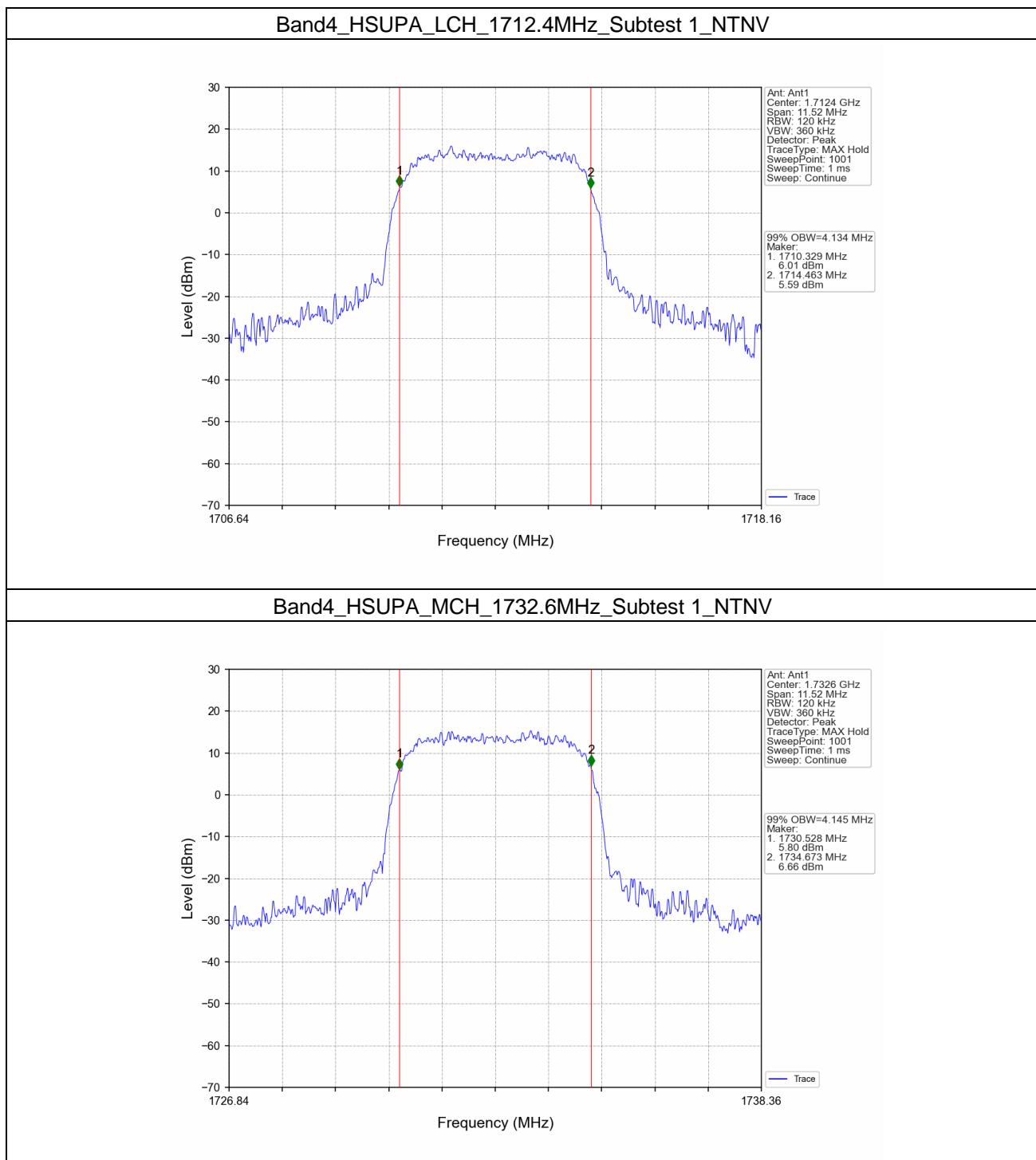
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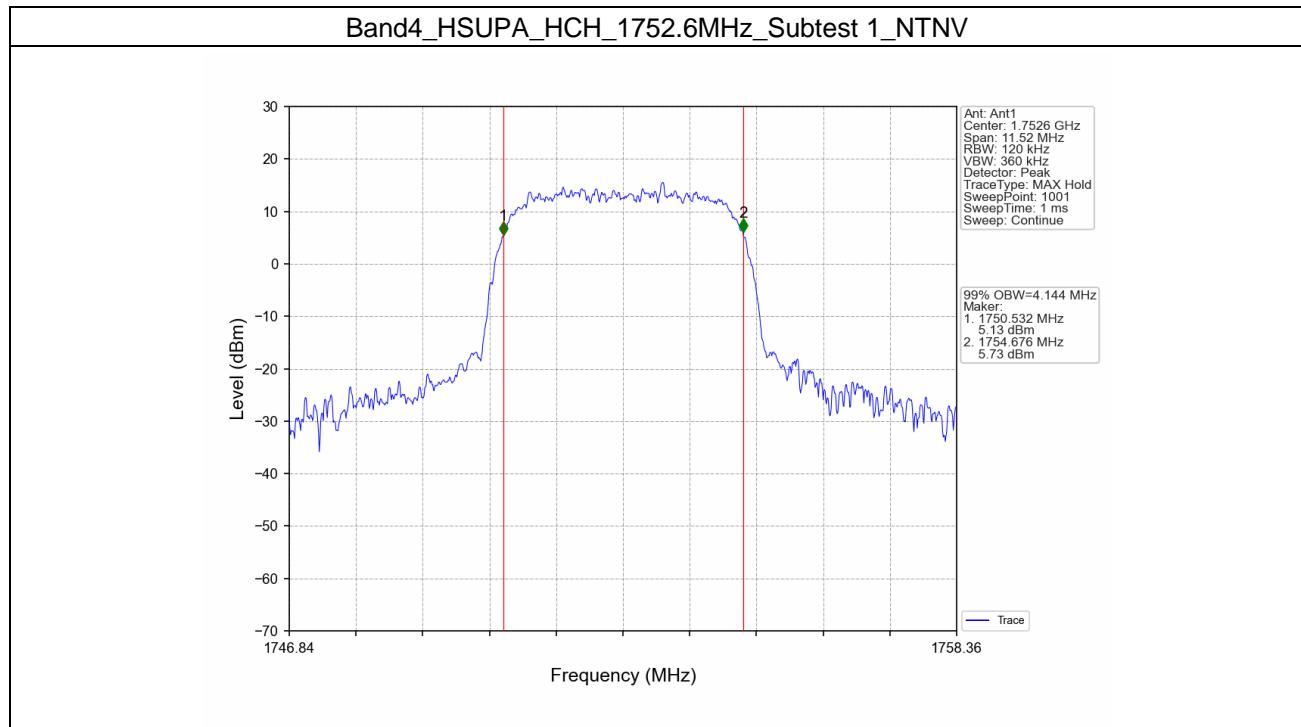


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Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.763	Pass
			1732.6	4.756	Pass
			1752.6	4.756	Pass
	HSDPA	Subtest 1	1712.4	4.718	Pass
			1732.6	4.739	Pass
			1752.6	4.740	Pass
	HSUPA	Subtest 1	1712.4	4.773	Pass
			1732.6	4.744	Pass
			1752.6	4.719	Pass

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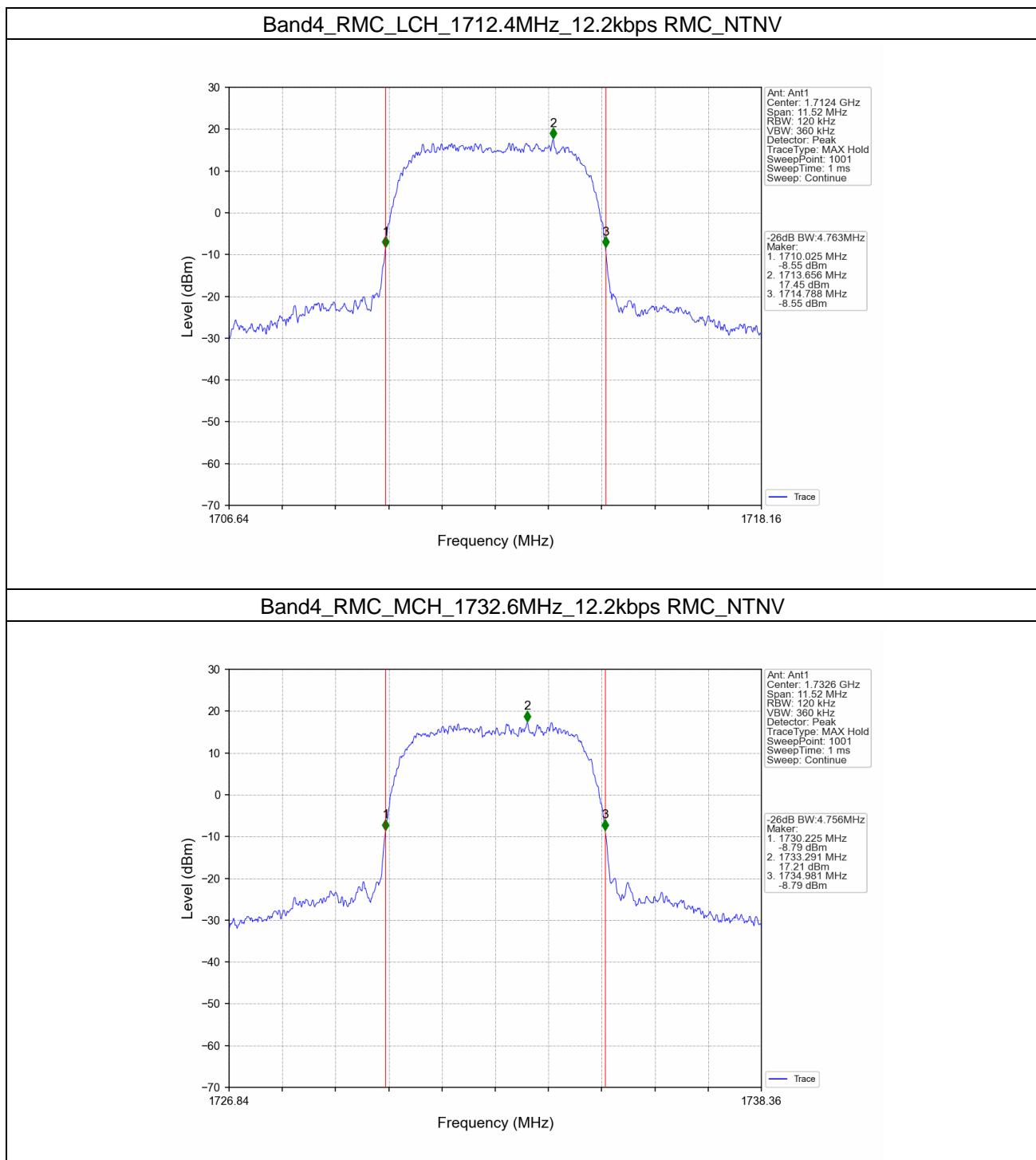
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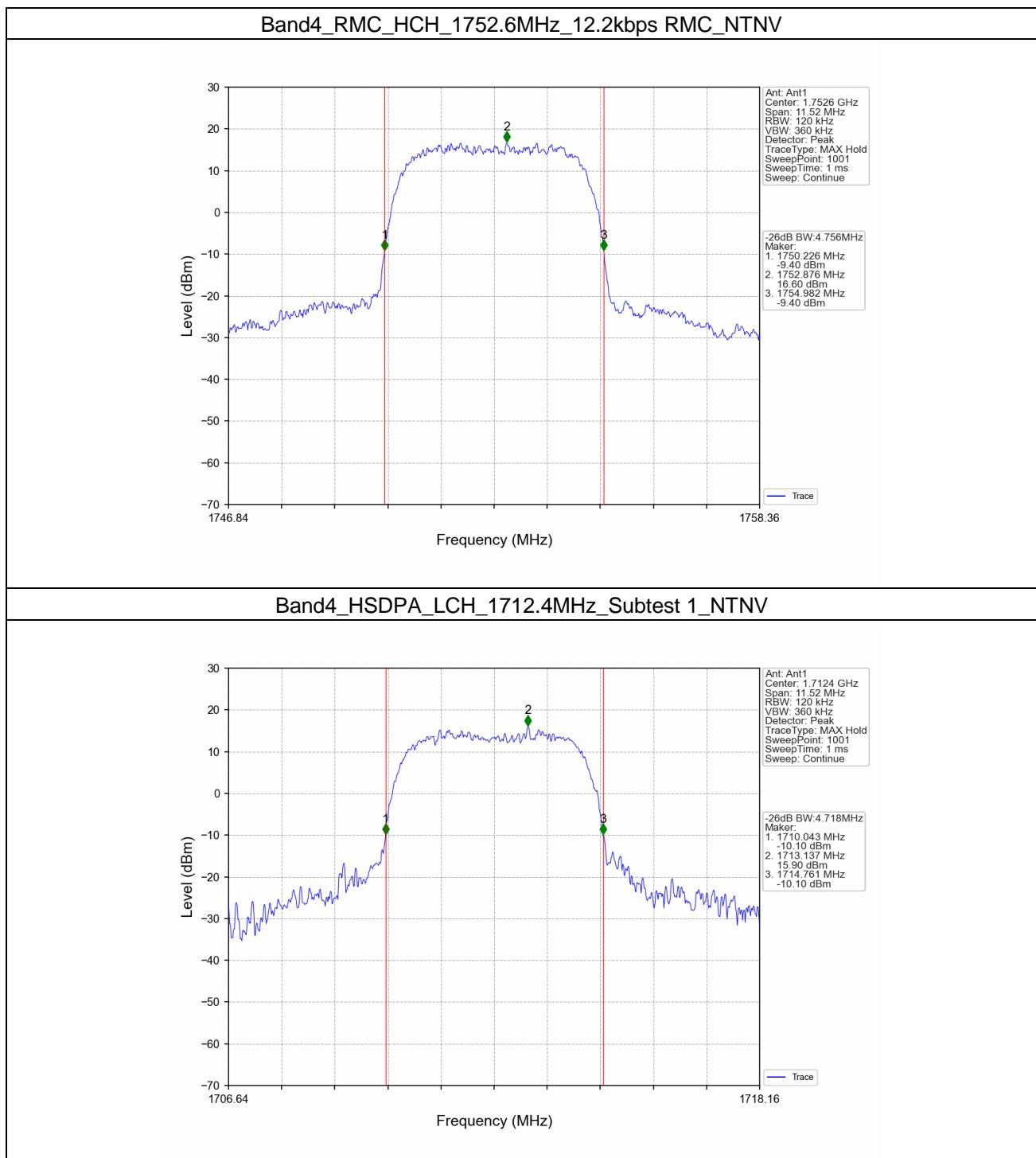
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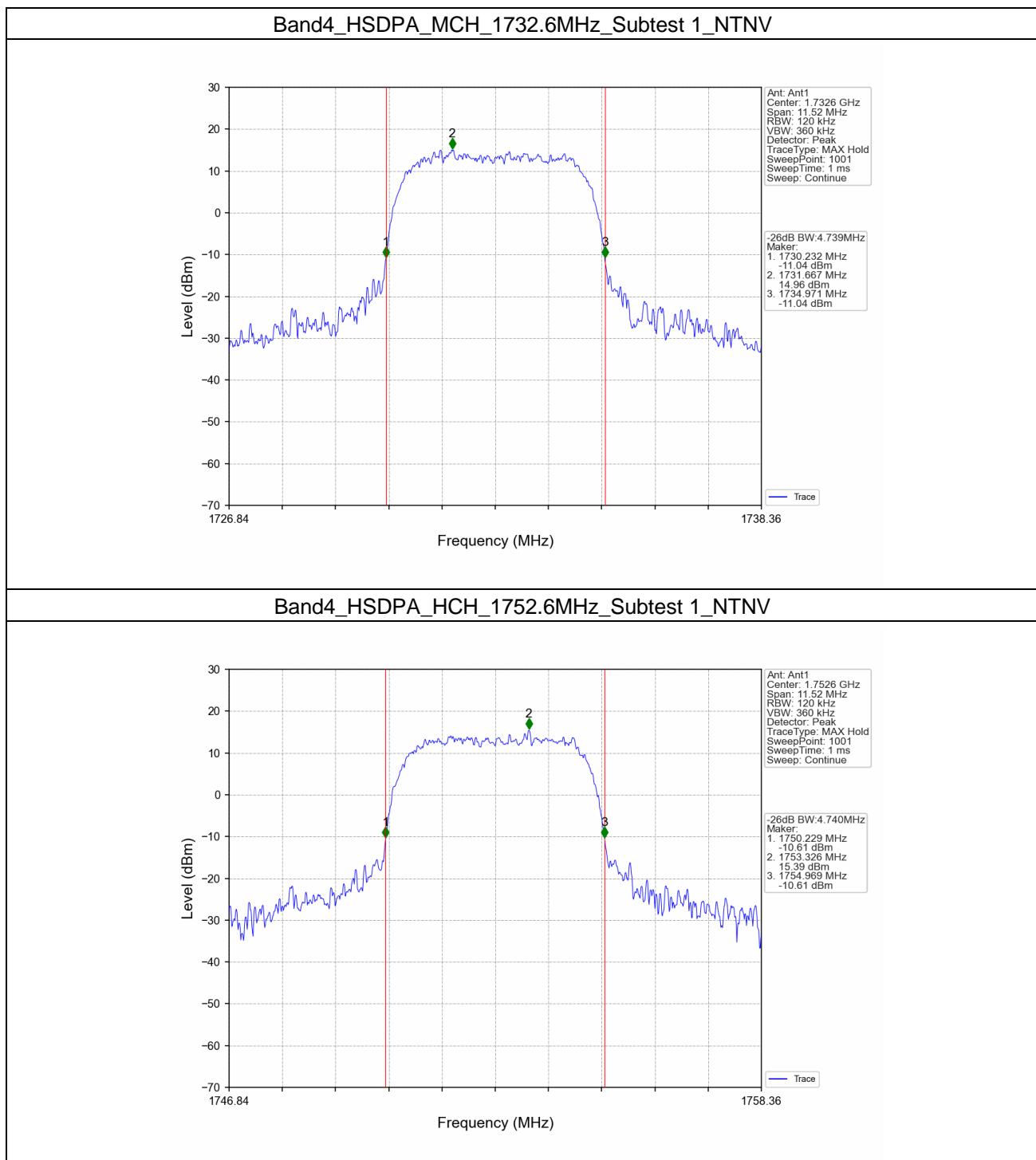
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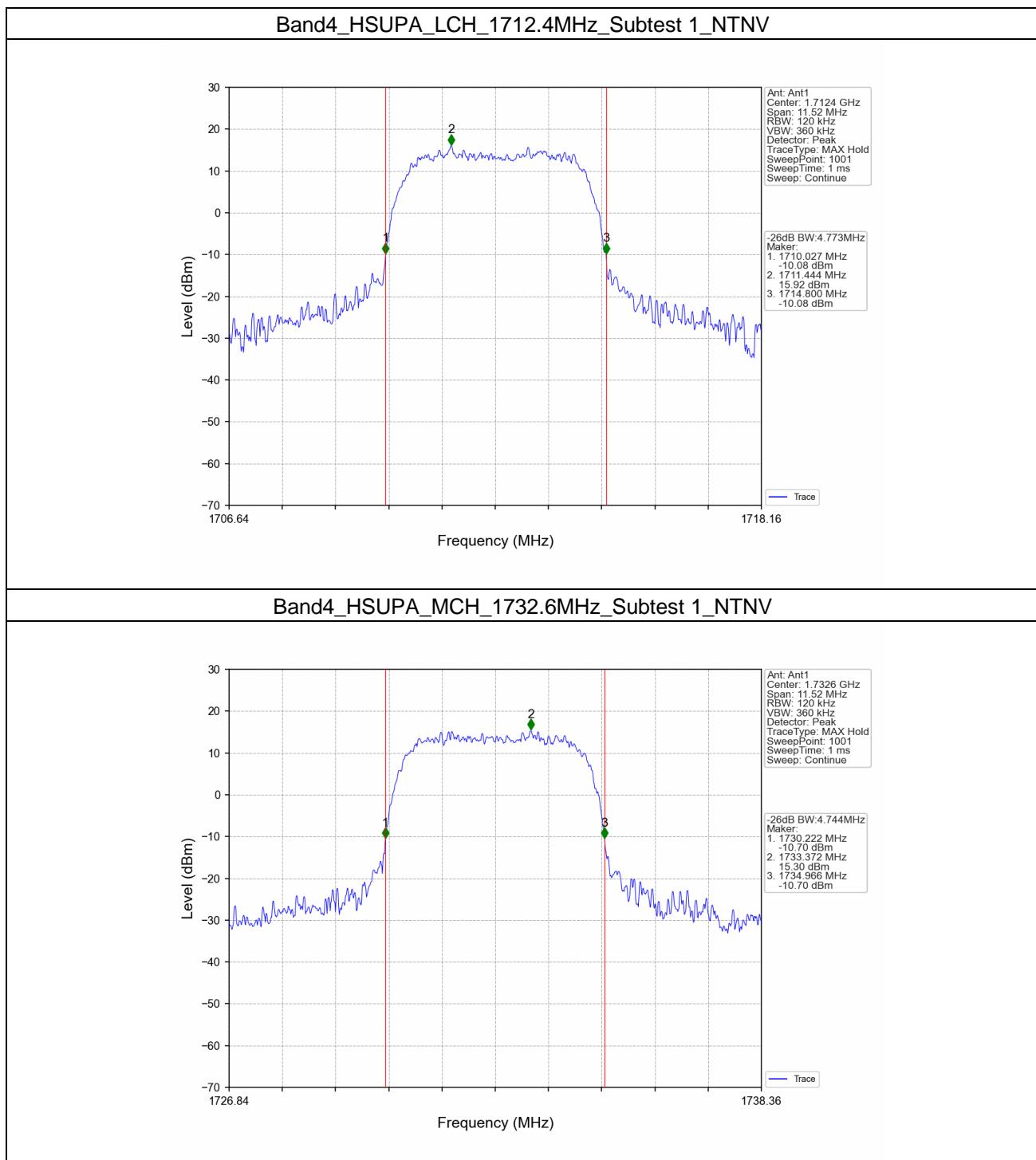
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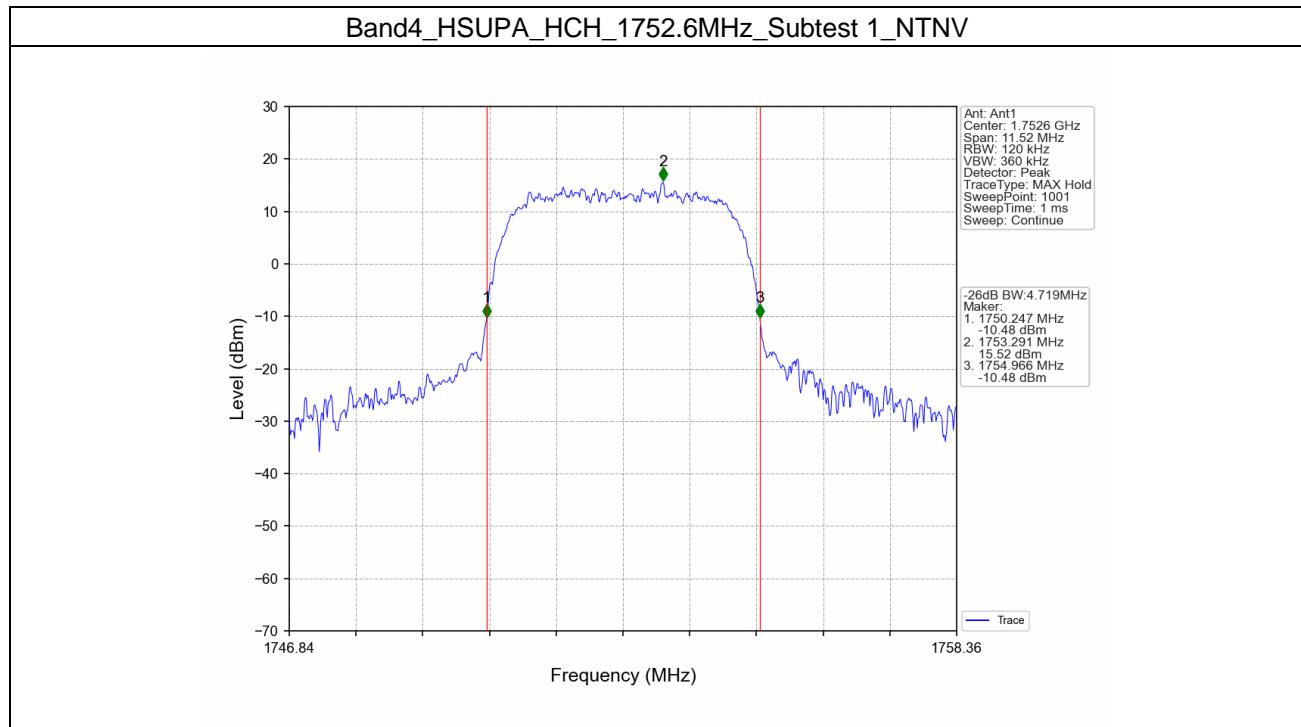


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Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result		
NTNV	RMC	12.2kbps RMC	826.4	4.150	Pass	
			836.6	4.140	Pass	
			846.6	4.126	Pass	
	HSDPA	Subtest 1	826.4	4.214	Pass	
			836.6	4.223	Pass	
			846.6	4.196	Pass	
	HSUPA	Subtest 1	826.4	4.223	Pass	
			836.6	4.204	Pass	
			846.6	4.183	Pass	

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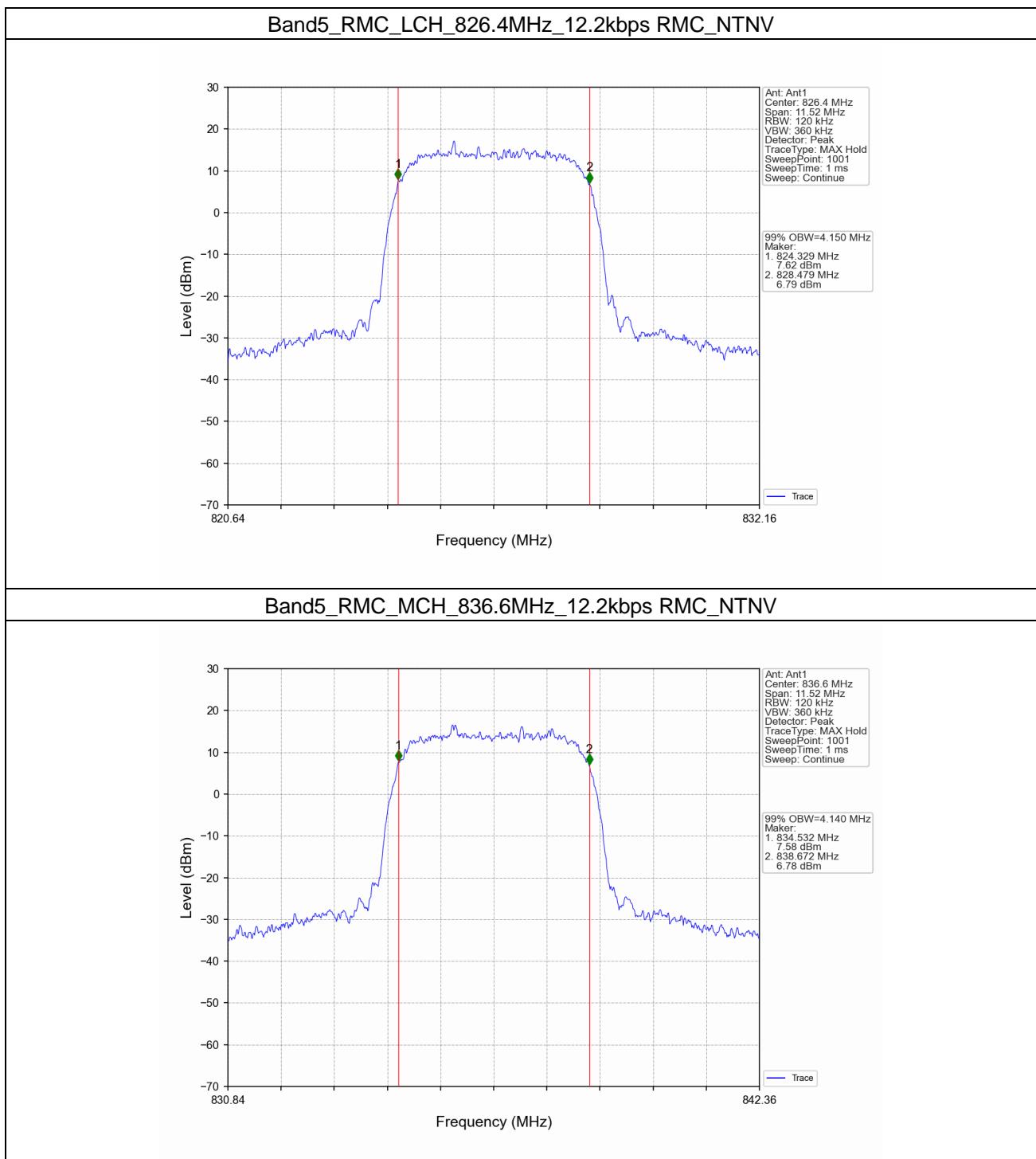


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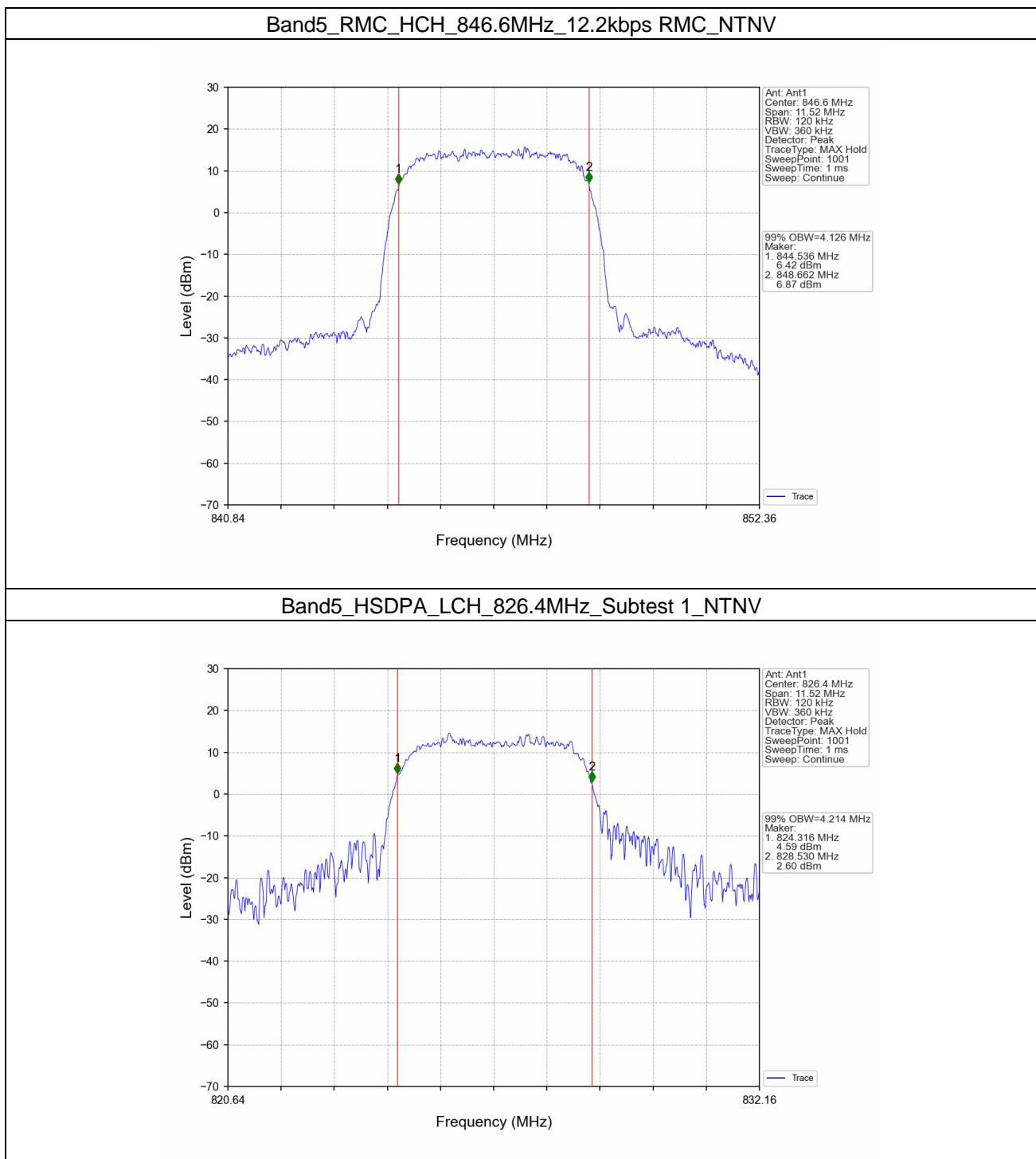


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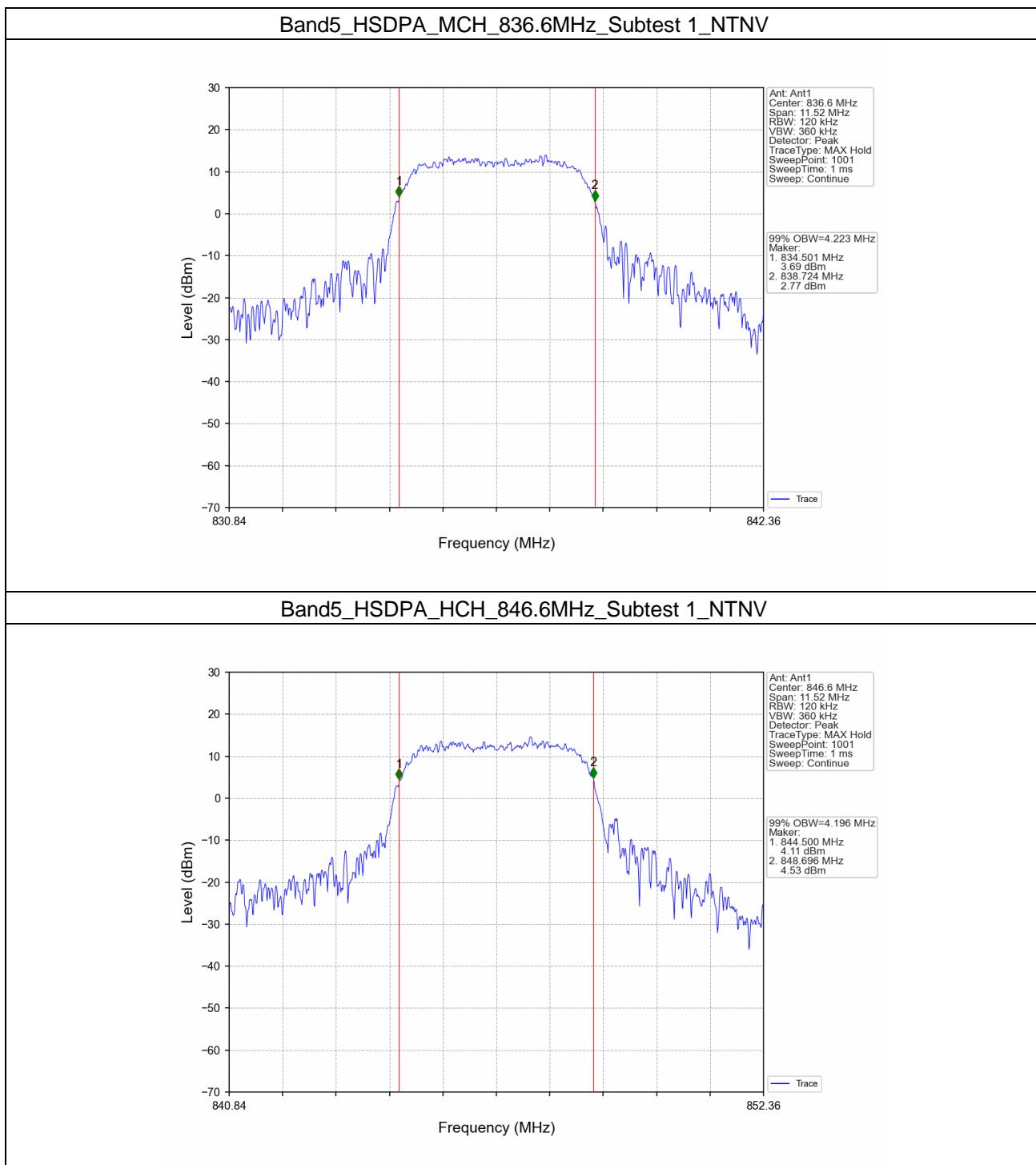


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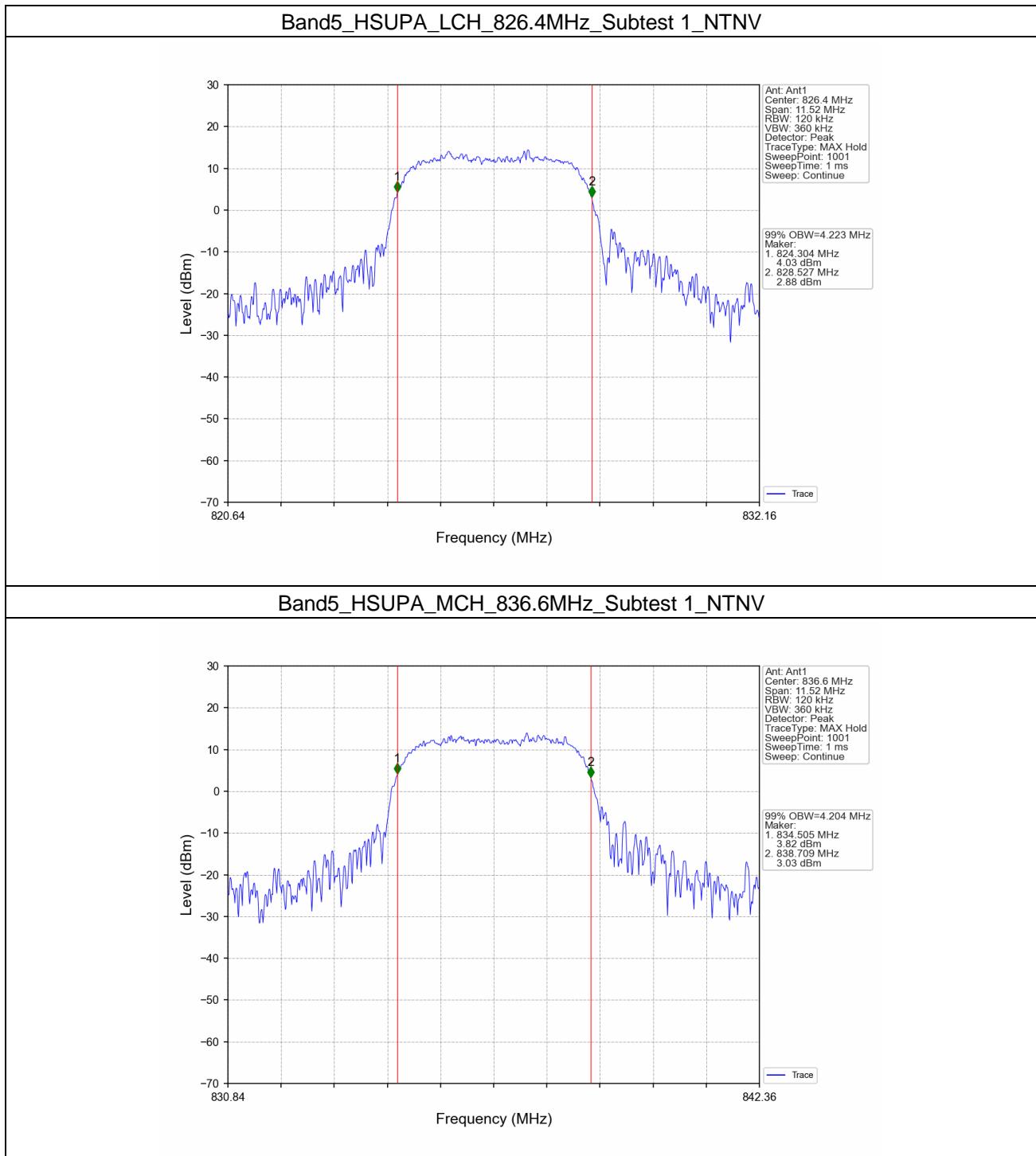


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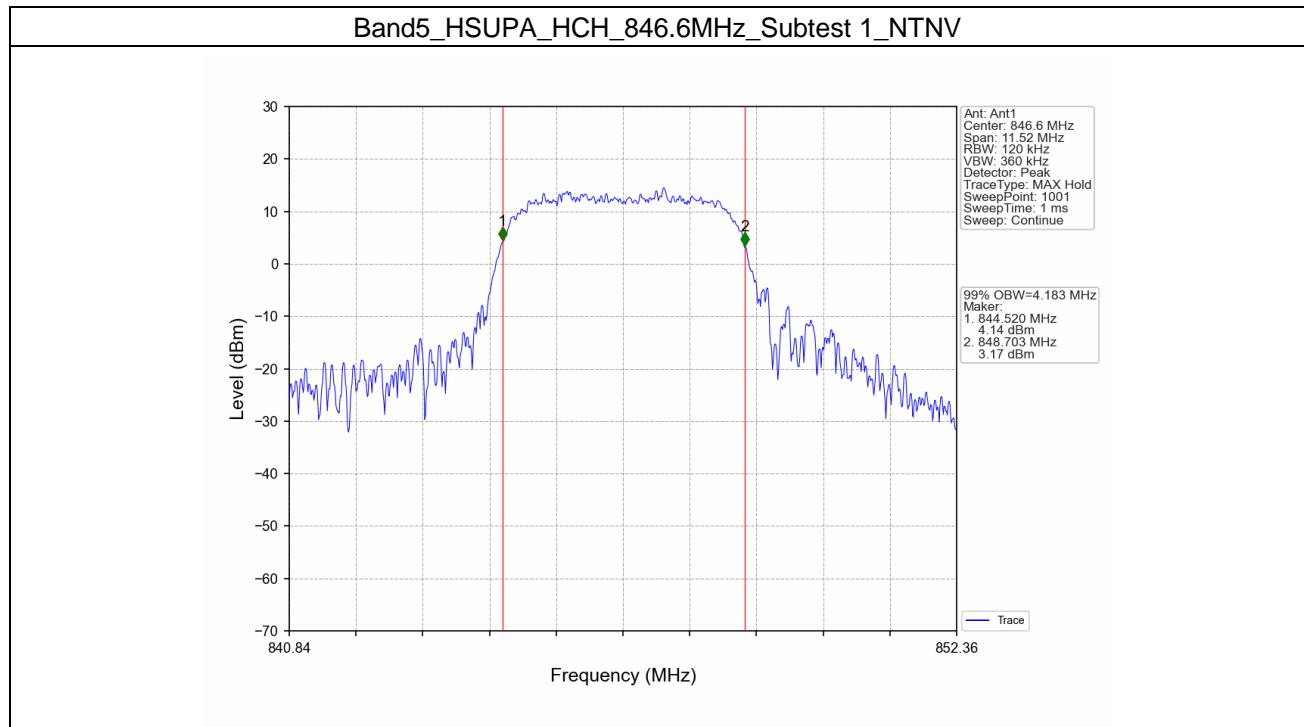
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Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.726	Pass
			836.6	4.735	Pass
			846.6	4.764	Pass
	HSDPA	Subtest 1	826.4	6.678	Pass
			836.6	6.715	Pass
			846.6	5.730	Pass
HSUPA	Subtest 1		826.4	6.562	Pass
			836.6	6.126	Pass
			846.6	5.784	Pass

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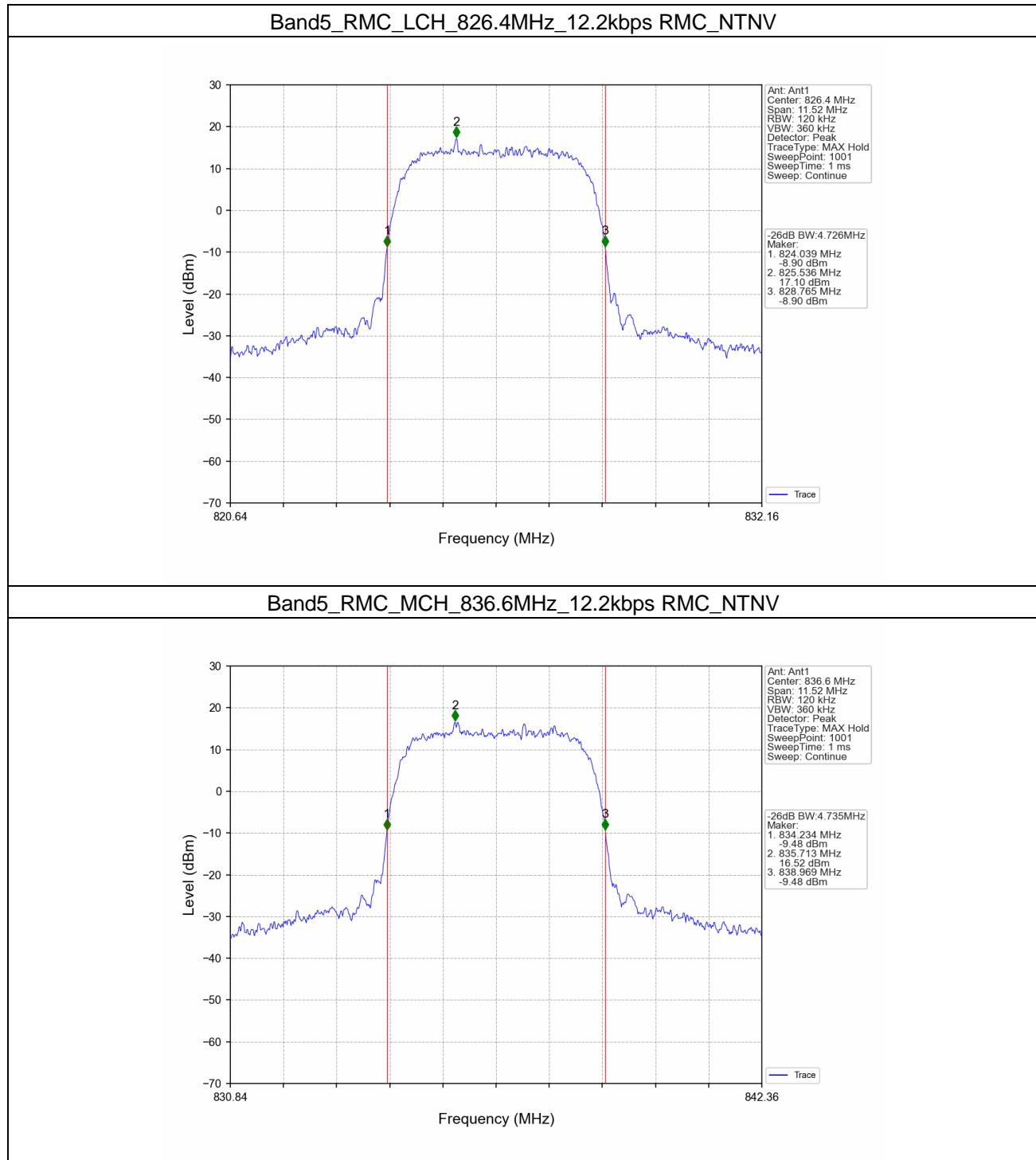
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3.2.2 Test Graph

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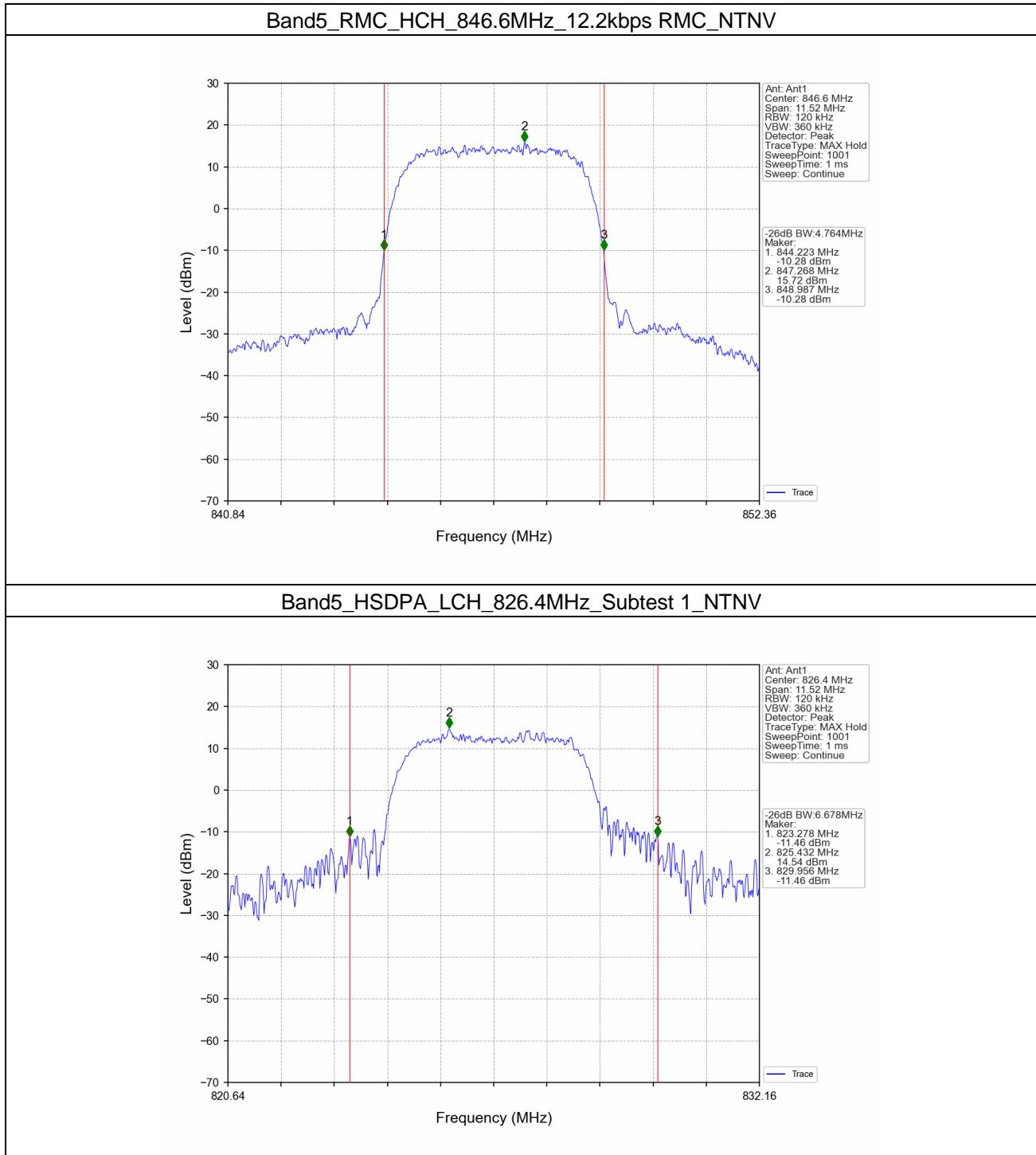
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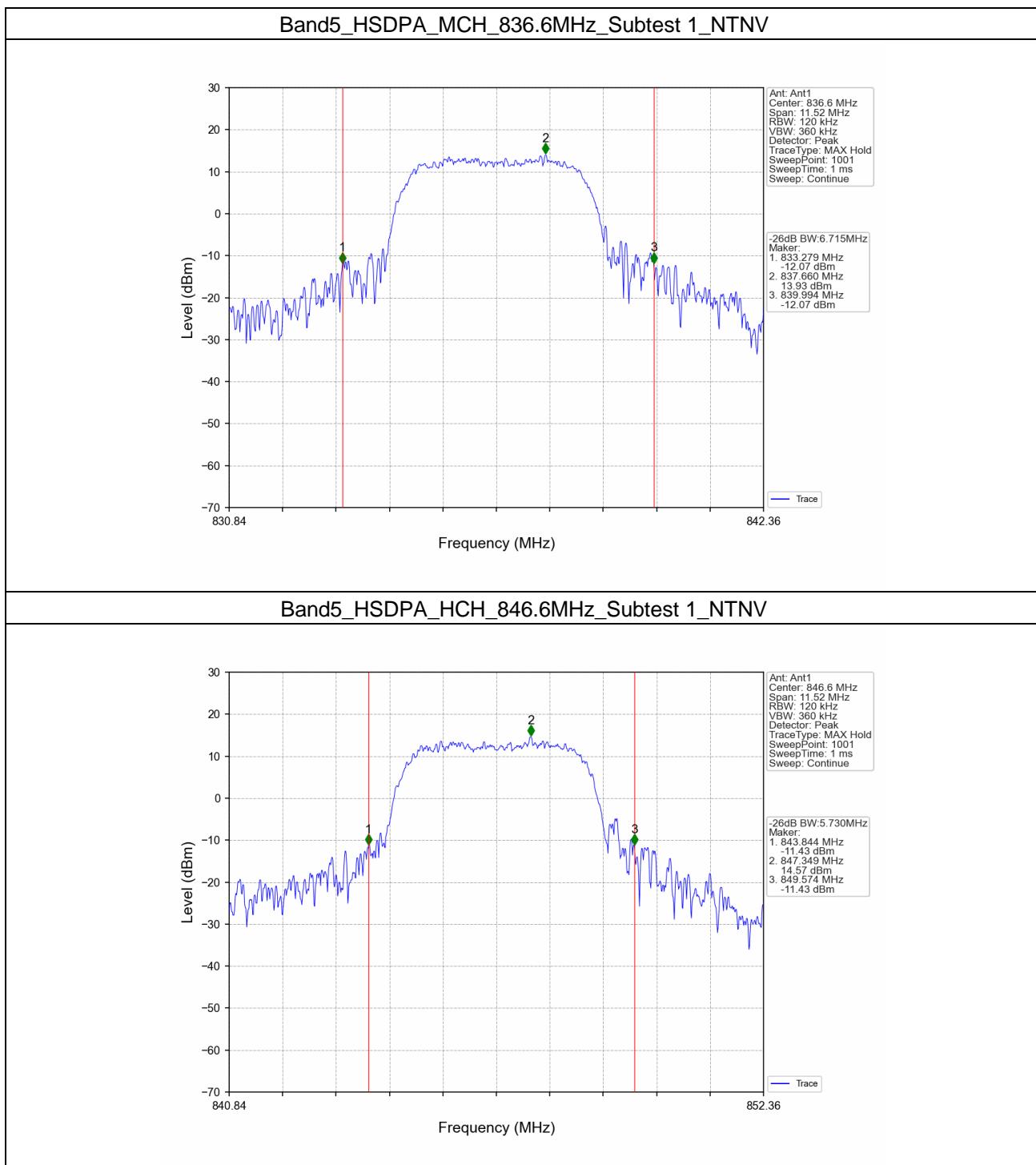
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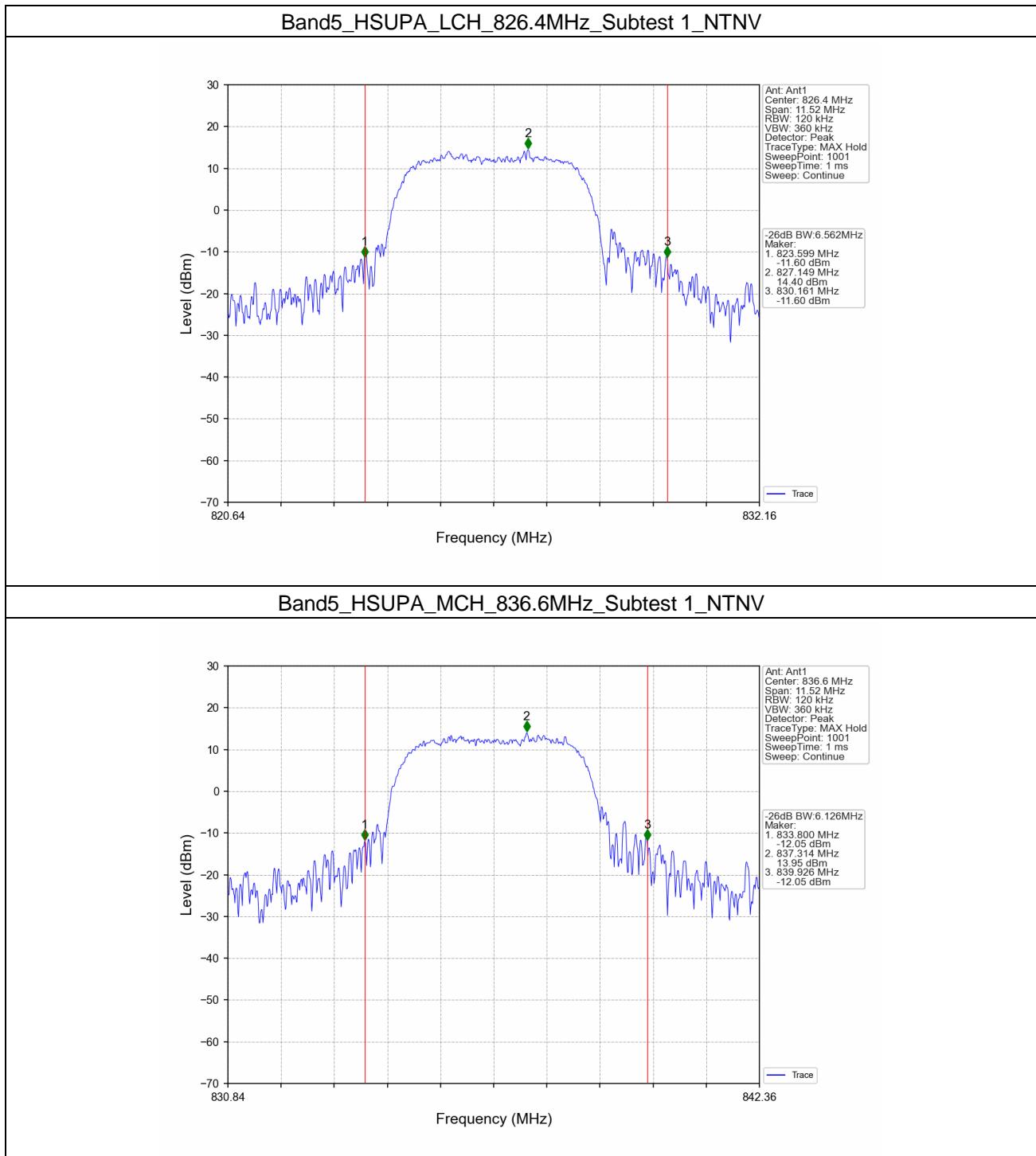
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