

Test Report No.: RF260703B001

FCC TEST REPORT

(PART 22)

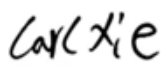
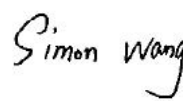
Applicant:	SHARP CORPORATION
Address:	2-1-25, Kyutaromachi, Chuo-ku, Osaka city, Osaka 541-8522, JAPAN

Manufacturer or Supplier:	SHARP CORPORATION
Address:	2-1-25, Kyutaromachi, Chuo-ku, Osaka city, Osaka 541-8522, JAPAN
Product:	Smart Phone
Brand Name:	SHARP
FCC ID:	APYHRO00344
Date of tests:	Jul.1, 2026 ~ Aug.7, 2026

The tests have been carried out according to the requirements of the following standard:

- ☒ FCC PART 22, Subpart H ☒ FCC Part 2
☒ ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Aug.7, 2026	Date: Aug.7, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



Test Report No.: RF260703B001

TABLE OF CONTENTS

RELEASE CONTROL RECORD	5
1 SUMMARY OF TEST RESULTS.....	6
1.1 MEASUREMENT UNCERTAINTY	7
1.2 TEST SITE AND INSTRUMENTS	8
2 GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 CONFIGURATION OF SYSTEM UNDER TEST	12
2.3 DESCRIPTION OF SUPPORT UNITS	13
2.4 TEST ITEM AND TEST CONFIGURATION.....	13
2.5 EUT OPERATING CONDITIONS	16
2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS	17
3 TEST TYPES AND RESULTS.....	18
3.1 OUTPUT POWER MEASUREMENT	18
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	18
3.1.2 TEST PROCEDURES	18
3.1.3 TEST SETUP	19
3.1.4 TEST RESULTS	19
3.2 FREQUENCY STABILITY MEASUREMENT	27
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	27
3.2.2 TEST PROCEDURE	27
3.2.3 TEST SETUP	27
3.2.4 TEST RESULTS	27
3.3 OCCUPIED BANDWIDTH MEASUREMENT	28
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	28
3.3.2 TEST SETUP	28
3.3.3 TEST PROCEDURES	28
3.3.4 TEST RESULTS	28
3.4 BAND EDGE MEASUREMENT	29
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	29
3.4.2 TEST SETUP	29
3.4.3 TEST PROCEDURES	30
3.4.4 TEST RESULTS	30
3.5 CONDUCTED SPURIOUS EMISSIONS.....	31
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	31
3.5.2 TEST PROCEDURE	31
3.5.3 TEST SETUP	31
3.5.4 TEST RESULTS	31
3.6 RADIATED EMISSION MEASUREMENT	32
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	32



Test Report No.: RF260703B001

3.6.2	TEST PROCEDURES	32
3.6.3	DEVIATION FROM TEST STANDARD	32
3.6.4	TEST SETUP	33
3.6.5	TEST RESULTS	35
3.7	PEAK TO AVERAGE RATIO	37
3.7.1	LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	37
3.7.2	TEST SETUP	37
3.7.3	TEST PROCEDURES	37
3.7.4	TEST RESULTS	37
4	PHOTOGRAPHS OF THE TEST CONFIGURATION	38
5	INFORMATION ON THE TESTING LABORATORIES	38
6	MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	39
7	APPENDIX	40
	GSM850	40
	PEAK-TO-AVERAGE RATIO (CCDF)	40
	TEST RESULT	40
	TEST GRAPHS	41
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	44
	TEST RESULT	44
	TEST GRAPHS	45
	BAND EDGE AND SPURIOUS EMISSION	51
	TEST RESULT	51
	TEST GRAPHS	52
	FREQUENCY STABILITY	57
	TEST RESULT	57
	WCMDA BAND5	58
	PEAK-TO-AVERAGE RATIO	58
	TEST RESULT	58
	TEST GRAPHS	59
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	64
	TEST RESULT	64
	TEST GRAPHS	65
	BAND EDGE AND SPURIOUS EMISSION	75
	TEST RESULT	75
	TEST GRAPHS	76
	FREQUENCY STABILITY	84
	TEST RESULT	84
	LTE BAND5	86
	PEAK-TO-AVERAGE RATIO(CCDF)	86
	TEST RESULT	86
	TEST GRAPHS	88
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	108



Test Report No.: RF260703B001

TEST RESULT	108
TEST GRAPHS	110
BAND EDGE AND SPURIOUS EMISSION.....	146
TEST RESULT	146
TEST GRAPHS	148
FREQUENCY STABILITY	192
TEST RESULT	192



Test Report No.: RF260703B001

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260703B001	Original release	Aug.7, 2026



Test Report No.: RF260703B001

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§22.913 (d)	Peak to average ratio*	Compliance
§22.917(a)	Band Edge Measurements	Compliance
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

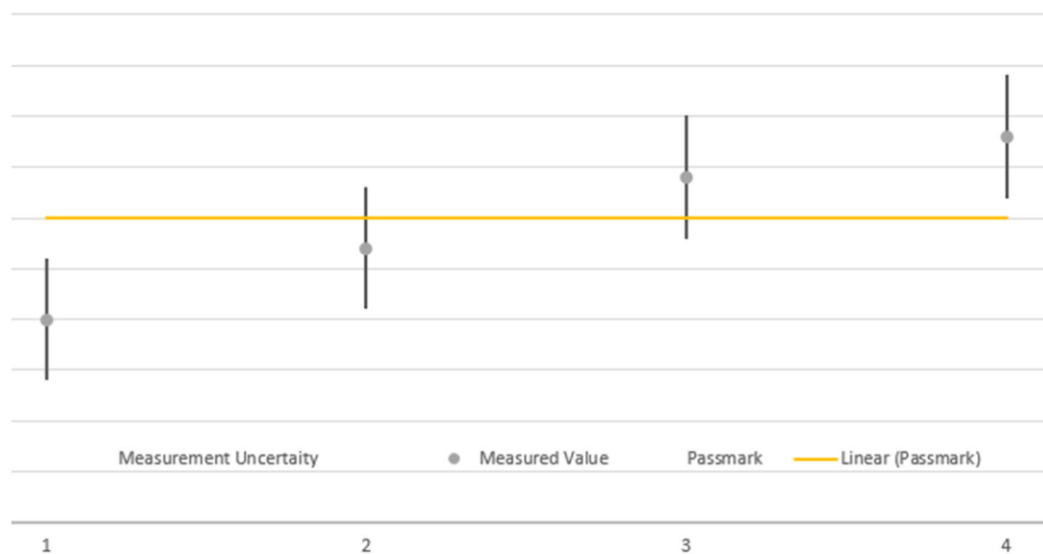
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	$\pm 2.06\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



Test Report No.: RF260703B001

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2026/7/3	2027/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2026/7/17	2027/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2026/7/19	2027/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2026/7/3	2027/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2026/7/1	2027/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2026/6/30	2027/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2026/6/30	2027/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2026/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2026/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2026/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2026/6/30	2027/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2026/7/2	2027/7/1
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2026/6/30	2027/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2026/6/30	2027/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2026/6/30	2027/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2026/7/3	2027/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2026/6/30	2027/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2026/6/30	2027/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2026/6/16	2027/6/15
DC Power Supply	AGILENT	HMP2020	100598	2026/7/1	2027/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2026/6/30	2027/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2026/6/30	2027/6/29
hygrothermograph	Anymeters	----	TH101B	2026/7/22	2027/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2026/7/1	2027/6/30

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Test Report No.: RF260703B001

power divider	WOKEN	71688	204-003180-01	2026/6/30	2027/6/29
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NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 646781; The Designation No. is CN1429.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone	
BRAND NAME	SHARP	
NOMINAL VOLTAGE	4.0Vdc(adapter or host equipment) 3.92Vdc (Li-ion, battery)	
MODULATION TYPE	GSM	GMSK
	WCDMA	HSDPA、HSUPA、HSPA+
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	GSM	824.2MHz ~ 848.8MHz
	WCDMA V	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	GSM 850	648.6mW
	WCDMA V	74.1mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	50mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	50mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	50mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	51mW
EMISSION DESIGNATOR GGN	GSM 850	248KGXW
	WCDMA V	4M16F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M69G7D
		16QAM: 2M69W7D
		64QAM: 2M69W7D
	LTE Band 5	QPSK: 4M49G7D

Test Report No.: RF260703B001

	(Channel Bandwidth: 5MHz)	16QAM: 4M49W7D
		64QAM: 4M49W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 8M96G7D
		16QAM: 8M98W7D
		64QAM: 8M98W7D
ANTENNA TYPE	PIFA Antenna	
ANTENNA GAIN	☒ Provided by client	
	-3.1dBi gain for GSM850/WCDMA V/LTE B5	
HW VERSION	DVT	
SW VERSION	A5290	
I/O PORTS	Refer to user's manual	
EXTREME TEMPERATURE	5~35°C	
EXTREME VOLTAGE	3.7V~4V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receivers.

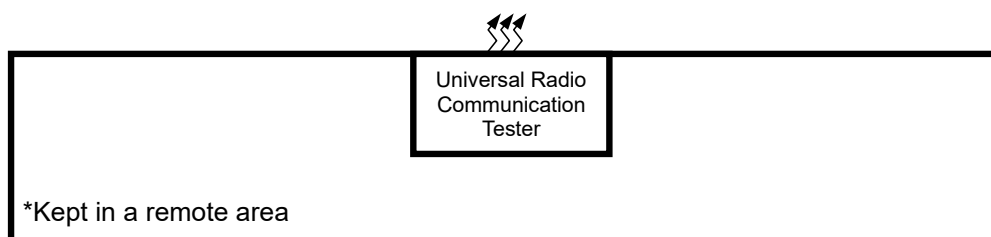
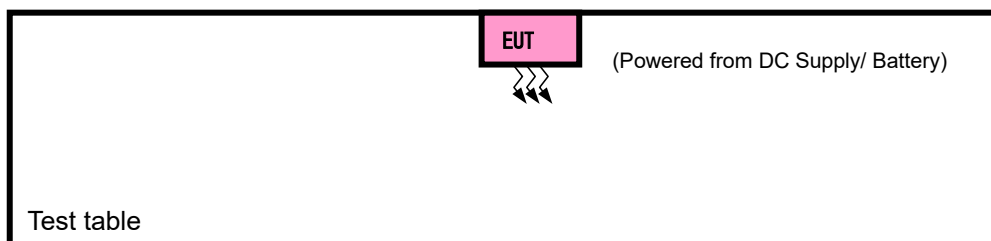
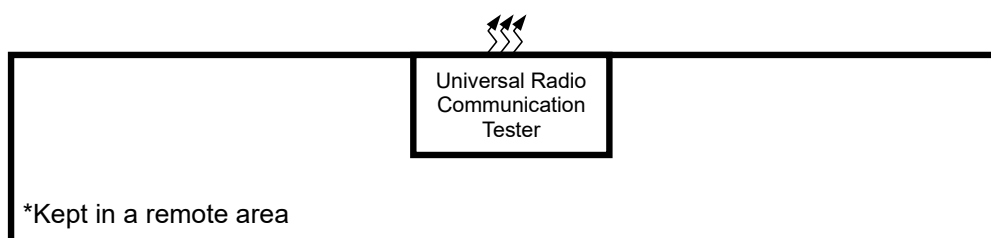
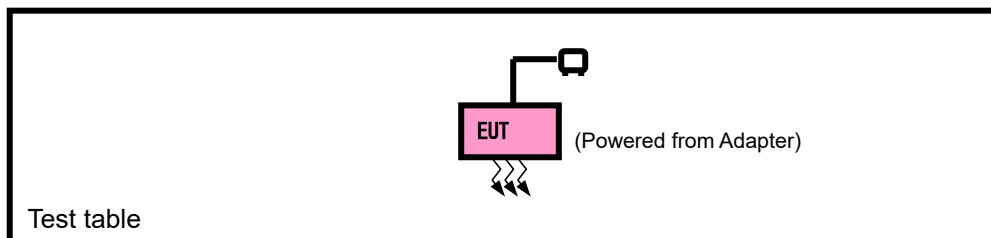
MODULATION MODE	TX FUNCTION
GSM/GPRS	1TX/1RX
WCDMA	1TX/2RX
LTE	1TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

5. List of Accessory:

Battery Information	Battery Type	Li-Lon
	Manufacturer	EVE ENERGY CO., LTD
	Model Number	UBATIA332AFN2
	Capacity	Typical capacity:5000 mAh Rated capacity:4900 mAh
	Nominal Voltage	3.92V

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION





Test Report No.: RF260703B001

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for GSM /LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with GSM or WCDMA or LTE link
B	EUT + DC Supply with GSM or WCDMA or LTE link



Test Report No.: RF260703B001

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	128 to 251	128, 189, 251	GSM
B	FREQUENCY STABILITY	128 to 251	128, 189, 251	GSM
A	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM
A	BAND EDGE	128 to 251	128, 251	GSM
A	CONDUCTED EMISSION	128 to 251	128, 189, 251	GSM
A	RADIATED EMISSION	128 to 251	128, 189, 251	GSM
A	PEAK TO AVERAGE RATIO	128 to 251	128, 189, 251	GSM

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4183, 4233	WCDMA
B	FREQUENCY STABILITY	4132 to 4233	4132, 4183, 4233	WCDMA
A	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4183, 4233	WCDMA
A	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
A	CONDUCTED EMISSION	4132 to 4233	4132, 4183, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4183, 4233	WCDMA
A	PEAK TO AVERAGE RATIO	4132 to 4233	4132, 4183, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM
B	FREQUENCY STABILITY	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM

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Test Report No.: RF260703B001

		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM
A	BAND EDGE	20407 to 20643	20407, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20625	5MHz	QPSK, 16QAM, 64QAM
		20450 to 20600	20450, 20600	10MHz	QPSK, 16QAM, 64QAM
A	CONDUCTED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM
A	RADIATED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



Test Report No.: RF260703B001

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 4V By DC Supply	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.7V/4V/4V By DC Supply	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC4V By DC Supply	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 4V By DC Supply	Alan Yu
CONDUCTED EMISSION	23deg. C, 70%RH	DC4V By DC Supply	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	DC4V By DC Supply	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC4V By DC Supply	Alan Yu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency



Test Report No.: RF260703B001

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



Test Report No.: RF260703B001

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

GSM 850

SCW-000

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	33.22	-3.10	27.97	<=38.45	Pass
			836.6	33.03	-3.10	27.78	<=38.45	Pass
			848.8	33.22	-3.10	27.97	<=38.45	Pass
	GPRS	1 TX Slot	824.2	33.37	-3.10	28.12	<=38.45	Pass
		2 TX Slots	824.2	30.75	-3.10	25.50	<=38.45	Pass
		3 TX Slots	824.2	28.81	-3.10	23.56	<=38.45	Pass
		4 TX Slots	824.2	27.66	-3.10	22.41	<=38.45	Pass
		1 TX Slot	836.6	33.14	-3.10	27.89	<=38.45	Pass
		2 TX Slots	836.6	30.54	-3.10	25.29	<=38.45	Pass
		3 TX Slots	836.6	28.60	-3.10	23.35	<=38.45	Pass
		4 TX Slots	836.6	27.56	-3.10	22.31	<=38.45	Pass
		1 TX Slot	848.8	33.36	-3.10	28.11	<=38.45	Pass
		2 TX Slots	848.8	30.89	-3.10	25.64	<=38.45	Pass
		3 TX Slots	848.8	29.04	-3.10	23.79	<=38.45	Pass
		4 TX Slots	848.8	27.80	-3.10	22.55	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								



Test Report No.: RF260703B001

WCDMA V

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	23.94	-3.10	18.69	<=38.45	Pass	
			836.6	23.95	-3.10	18.70	<=38.45	Pass	
			846.6	23.92	-3.10	18.67	<=38.45	Pass	
	HSDPA	Subtest 1	826.4	22.09	-3.10	16.84	<=38.45	Pass	
		Subtest 2	826.4	22.13	-3.10	16.88	<=38.45	Pass	
		Subtest 3	826.4	22.07	-3.10	16.82	<=38.45	Pass	
		Subtest 4	826.4	22.09	-3.10	16.84	<=38.45	Pass	
		Subtest 1	836.6	22.10	-3.10	16.85	<=38.45	Pass	
		Subtest 2	836.6	22.09	-3.10	16.84	<=38.45	Pass	
		Subtest 3	836.6	22.05	-3.10	16.80	<=38.45	Pass	
		Subtest 4	836.6	22.05	-3.10	16.80	<=38.45	Pass	
		Subtest 1	846.6	22.09	-3.10	16.84	<=38.45	Pass	
		Subtest 2	846.6	22.09	-3.10	16.84	<=38.45	Pass	
		Subtest 3	846.6	22.07	-3.10	16.82	<=38.45	Pass	
		Subtest 4	846.6	22.04	-3.10	16.79	<=38.45	Pass	
		HSUPA	Subtest 1	826.4	19.99	-3.10	14.74	<=38.45	Pass
			Subtest 2	826.4	20.22	-3.10	14.97	<=38.45	Pass
			Subtest 3	826.4	20.51	-3.10	15.26	<=38.45	Pass
			Subtest 4	826.4	19.01	-3.10	13.76	<=38.45	Pass
			Subtest 5	826.4	19.15	-3.10	13.90	<=38.45	Pass
	Subtest 1		836.6	18.94	-3.10	13.69	<=38.45	Pass	
	Subtest 2		836.6	20.40	-3.10	15.15	<=38.45	Pass	
	Subtest 3		836.6	19.64	-3.10	14.39	<=38.45	Pass	
	Subtest 4		836.6	18.73	-3.10	13.48	<=38.45	Pass	
	Subtest 5		836.6	19.35	-3.10	14.10	<=38.45	Pass	
	Subtest 1		846.6	18.96	-3.10	13.71	<=38.45	Pass	
	Subtest 2		846.6	19.72	-3.10	14.47	<=38.45	Pass	
	Subtest 3		846.6	19.75	-3.10	14.50	<=38.45	Pass	
	Subtest 4	846.6	19.33	-3.10	14.08	<=38.45	Pass		
	Subtest 5	846.6	18.41	-3.10	13.16	<=38.45	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									



Test Report No.: RF260703B001

LTE Band5

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	22.14	-3.10	16.89	<=38.45	Pass
			2	22.16	-3.10	16.91	<=38.45	Pass
			5	22.06	-3.10	16.81	<=38.45	Pass
		3	0	22.08	-3.10	16.83	<=38.45	Pass
			2	22.10	-3.10	16.85	<=38.45	Pass
			3	22.13	-3.10	16.88	<=38.45	Pass
		6	0	21.09	-3.10	15.84	<=38.45	Pass
	836.5	1	0	22.17	-3.10	16.92	<=38.45	Pass
			2	22.28	-3.10	17.03	<=38.45	Pass
			5	22.24	-3.10	16.99	<=38.45	Pass
		3	0	22.19	-3.10	16.94	<=38.45	Pass
			2	22.23	-3.10	16.98	<=38.45	Pass
			3	22.24	-3.10	16.99	<=38.45	Pass
		6	0	21.16	-3.10	15.91	<=38.45	Pass
	848.3	1	0	22.06	-3.10	16.81	<=38.45	Pass
			2	22.07	-3.10	16.82	<=38.45	Pass
			5	22.00	-3.10	16.75	<=38.45	Pass
		3	0	22.04	-3.10	16.79	<=38.45	Pass
			2	22.10	-3.10	16.85	<=38.45	Pass
			3	22.00	-3.10	16.75	<=38.45	Pass
		6	0	21.06	-3.10	15.81	<=38.45	Pass
16QAM	824.7	1	0	21.24	-3.10	15.99	<=38.45	Pass
			2	21.55	-3.10	16.30	<=38.45	Pass
			5	21.35	-3.10	16.10	<=38.45	Pass
		3	0	21.18	-3.10	15.93	<=38.45	Pass
			2	21.21	-3.10	15.96	<=38.45	Pass
			3	21.24	-3.10	15.99	<=38.45	Pass
		6	0	20.20	-3.10	14.95	<=38.45	Pass
	836.5	1	0	21.32	-3.10	16.07	<=38.45	Pass
			2	21.21	-3.10	15.96	<=38.45	Pass
			5	21.46	-3.10	16.21	<=38.45	Pass
		3	0	21.42	-3.10	16.17	<=38.45	Pass
			2	21.40	-3.10	16.15	<=38.45	Pass
			3	21.32	-3.10	16.07	<=38.45	Pass
		6	0	20.25	-3.10	15.00	<=38.45	Pass
	848.3	1	0	21.22	-3.10	15.97	<=38.45	Pass
			2	21.10	-3.10	15.85	<=38.45	Pass
			5	21.04	-3.10	15.79	<=38.45	Pass
		3	0	20.93	-3.10	15.68	<=38.45	Pass
			2	21.05	-3.10	15.80	<=38.45	Pass
			3	21.13	-3.10	15.88	<=38.45	Pass
		6	0	20.08	-3.10	14.83	<=38.45	Pass
64QAM	824.7	1	0	20.41	-3.10	15.16	<=38.45	Pass
			2	20.00	-3.10	14.75	<=38.45	Pass
			5	20.07	-3.10	14.82	<=38.45	Pass
		3	0	20.24	-3.10	14.99	<=38.45	Pass
			2	20.14	-3.10	14.89	<=38.45	Pass

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Test Report No.: RF260703B001

		6	3	20.25	-3.10	15.00	<=38.45	Pass
			0	19.17	-3.10	13.92	<=38.45	Pass
			0	20.60	-3.10	15.35	<=38.45	Pass
	836.5	1	2	20.39	-3.10	15.14	<=38.45	Pass
			5	20.41	-3.10	15.16	<=38.45	Pass
			0	20.20	-3.10	14.95	<=38.45	Pass
		3	2	20.32	-3.10	15.07	<=38.45	Pass
			3	20.18	-3.10	14.93	<=38.45	Pass
			0	19.17	-3.10	13.92	<=38.45	Pass
	848.3	1	0	20.27	-3.10	15.02	<=38.45	Pass
			2	20.14	-3.10	14.89	<=38.45	Pass
			5	20.08	-3.10	14.83	<=38.45	Pass
		3	0	20.03	-3.10	14.78	<=38.45	Pass
			2	20.05	-3.10	14.80	<=38.45	Pass
			3	20.01	-3.10	14.76	<=38.45	Pass
		6	0	19.13	-3.10	13.88	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

Band: 5 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	22.09	-3.10	16.84	<=38.45	Pass
			7	22.21	-3.10	16.96	<=38.45	Pass
			14	22.10	-3.10	16.85	<=38.45	Pass
		8	0	21.18	-3.10	15.93	<=38.45	Pass
			4	21.18	-3.10	15.93	<=38.45	Pass
			7	21.22	-3.10	15.97	<=38.45	Pass
		15	0	21.15	-3.10	15.90	<=38.45	Pass
	836.5	1	0	22.23	-3.10	16.98	<=38.45	Pass
			7	22.24	-3.10	16.99	<=38.45	Pass
			14	22.12	-3.10	16.87	<=38.45	Pass
		8	0	21.18	-3.10	15.93	<=38.45	Pass
			4	21.29	-3.10	16.04	<=38.45	Pass
			7	21.21	-3.10	15.96	<=38.45	Pass
		15	0	21.19	-3.10	15.94	<=38.45	Pass
	847.5	1	0	21.97	-3.10	16.72	<=38.45	Pass
			7	22.09	-3.10	16.84	<=38.45	Pass
			14	21.93	-3.10	16.68	<=38.45	Pass
		8	0	21.01	-3.10	15.76	<=38.45	Pass
			4	21.01	-3.10	15.76	<=38.45	Pass
			7	20.99	-3.10	15.74	<=38.45	Pass
		15	0	21.05	-3.10	15.80	<=38.45	Pass
16QAM	825.5	1	0	21.31	-3.10	16.06	<=38.45	Pass
			7	21.19	-3.10	15.94	<=38.45	Pass
			14	21.49	-3.10	16.24	<=38.45	Pass
		8	0	20.15	-3.10	14.90	<=38.45	Pass
			4	20.24	-3.10	14.99	<=38.45	Pass
			7	20.30	-3.10	15.05	<=38.45	Pass
		15	0	20.26	-3.10	15.01	<=38.45	Pass
	836.5	1	0	21.59	-3.10	16.34	<=38.45	Pass

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Test Report No.: RF260703B001

			7	21.39	-3.10	16.14	<=38.45	Pass	
			14	21.43	-3.10	16.18	<=38.45	Pass	
			0	20.28	-3.10	15.03	<=38.45	Pass	
		8	4	20.33	-3.10	15.08	<=38.45	Pass	
			7	20.39	-3.10	15.14	<=38.45	Pass	
		15	0	20.25	-3.10	15.00	<=38.45	Pass	
	847.5	1	0	21.36	-3.10	16.11	<=38.45	Pass	
			7	21.24	-3.10	15.99	<=38.45	Pass	
			14	21.42	-3.10	16.17	<=38.45	Pass	
		8	0	20.15	-3.10	14.90	<=38.45	Pass	
			4	20.18	-3.10	14.93	<=38.45	Pass	
			7	20.12	-3.10	14.87	<=38.45	Pass	
	15	0	20.10	-3.10	14.85	<=38.45	Pass		
	64QAM	825.5	1	0	20.25	-3.10	15.00	<=38.45	Pass
				7	20.38	-3.10	15.13	<=38.45	Pass
14				20.35	-3.10	15.10	<=38.45	Pass	
8			0	19.15	-3.10	13.90	<=38.45	Pass	
			4	19.19	-3.10	13.94	<=38.45	Pass	
			7	19.20	-3.10	13.95	<=38.45	Pass	
15		0	19.25	-3.10	14.00	<=38.45	Pass		
836.5		1	0	20.16	-3.10	14.91	<=38.45	Pass	
			7	20.46	-3.10	15.21	<=38.45	Pass	
			14	20.33	-3.10	15.08	<=38.45	Pass	
		8	0	19.18	-3.10	13.93	<=38.45	Pass	
			4	19.28	-3.10	14.03	<=38.45	Pass	
			7	19.20	-3.10	13.95	<=38.45	Pass	
15		0	19.27	-3.10	14.02	<=38.45	Pass		
847.5		1	0	19.97	-3.10	14.72	<=38.45	Pass	
			7	19.96	-3.10	14.71	<=38.45	Pass	
			14	20.26	-3.10	15.01	<=38.45	Pass	
		8	0	19.13	-3.10	13.88	<=38.45	Pass	
			4	19.13	-3.10	13.88	<=38.45	Pass	
			7	19.13	-3.10	13.88	<=38.45	Pass	
15		0	19.10	-3.10	13.85	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

Band: 5 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.10	-3.10	16.85	<=38.45	Pass
			13	22.31	-3.10	17.06	<=38.45	Pass
			24	22.15	-3.10	16.90	<=38.45	Pass
		12	0	21.18	-3.10	15.93	<=38.45	Pass
			6	21.25	-3.10	16.00	<=38.45	Pass
			13	21.17	-3.10	15.92	<=38.45	Pass
		25	0	21.21	-3.10	15.96	<=38.45	Pass
	836.5	1	0	22.15	-3.10	16.90	<=38.45	Pass
			13	22.25	-3.10	17.00	<=38.45	Pass
			24	22.11	-3.10	16.86	<=38.45	Pass
		12	0	21.20	-3.10	15.95	<=38.45	Pass



Test Report No.: RF260703B001

		25	6	21.24	-3.10	15.99	<=38.45	Pass	
			13	21.24	-3.10	15.99	<=38.45	Pass	
			0	21.34	-3.10	16.09	<=38.45	Pass	
		846.5	1	0	22.13	-3.10	16.88	<=38.45	Pass
				13	22.13	-3.10	16.88	<=38.45	Pass
				24	22.04	-3.10	16.79	<=38.45	Pass
			12	0	21.02	-3.10	15.77	<=38.45	Pass
				6	21.05	-3.10	15.80	<=38.45	Pass
				13	21.07	-3.10	15.82	<=38.45	Pass
			25	0	20.98	-3.10	15.73	<=38.45	Pass
16QAM	826.5	1	0	21.50	-3.10	16.25	<=38.45	Pass	
			13	21.54	-3.10	16.29	<=38.45	Pass	
			24	21.21	-3.10	15.96	<=38.45	Pass	
		12	0	20.23	-3.10	14.98	<=38.45	Pass	
			6	20.28	-3.10	15.03	<=38.45	Pass	
			13	20.19	-3.10	14.94	<=38.45	Pass	
		25	0	20.23	-3.10	14.98	<=38.45	Pass	
	836.5	1	0	21.38	-3.10	16.13	<=38.45	Pass	
			13	21.55	-3.10	16.30	<=38.45	Pass	
			24	21.50	-3.10	16.25	<=38.45	Pass	
		12	0	20.22	-3.10	14.97	<=38.45	Pass	
			6	20.19	-3.10	14.94	<=38.45	Pass	
			13	20.24	-3.10	14.99	<=38.45	Pass	
		25	0	20.28	-3.10	15.03	<=38.45	Pass	
	846.5	1	0	21.44	-3.10	16.19	<=38.45	Pass	
			13	20.97	-3.10	15.72	<=38.45	Pass	
			24	21.37	-3.10	16.12	<=38.45	Pass	
		12	0	20.14	-3.10	14.89	<=38.45	Pass	
			6	20.13	-3.10	14.88	<=38.45	Pass	
			13	20.00	-3.10	14.75	<=38.45	Pass	
		25	0	20.14	-3.10	14.89	<=38.45	Pass	
64QAM	826.5	1	0	20.25	-3.10	15.00	<=38.45	Pass	
			13	20.24	-3.10	14.99	<=38.45	Pass	
			24	20.48	-3.10	15.23	<=38.45	Pass	
		12	0	19.22	-3.10	13.97	<=38.45	Pass	
			6	19.32	-3.10	14.07	<=38.45	Pass	
			13	19.21	-3.10	13.96	<=38.45	Pass	
		25	0	19.23	-3.10	13.98	<=38.45	Pass	
	836.5	1	0	20.50	-3.10	15.25	<=38.45	Pass	
			13	20.46	-3.10	15.21	<=38.45	Pass	
			24	20.16	-3.10	14.91	<=38.45	Pass	
		12	0	19.25	-3.10	14.00	<=38.45	Pass	
			6	19.18	-3.10	13.93	<=38.45	Pass	
			13	19.27	-3.10	14.02	<=38.45	Pass	
	25	0	19.28	-3.10	14.03	<=38.45	Pass		
	846.5	1	0	20.11	-3.10	14.86	<=38.45	Pass	
			13	20.29	-3.10	15.04	<=38.45	Pass	
			24	20.22	-3.10	14.97	<=38.45	Pass	
		12	0	19.08	-3.10	13.83	<=38.45	Pass	
			6	18.98	-3.10	13.73	<=38.45	Pass	
			13	19.10	-3.10	13.85	<=38.45	Pass	

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Test Report No.: RF260703B001

		25	0	19.03	-3.10	13.78	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

Band: 5 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	22.09	-3.10	16.84	<=38.45	Pass
			25	22.29	-3.10	17.04	<=38.45	Pass
			49	22.22	-3.10	16.97	<=38.45	Pass
		25	0	21.15	-3.10	15.90	<=38.45	Pass
			13	21.24	-3.10	15.99	<=38.45	Pass
			25	21.29	-3.10	16.04	<=38.45	Pass
		50	0	21.25	-3.10	16.00	<=38.45	Pass
	836.5	1	0	22.19	-3.10	16.94	<=38.45	Pass
			25	22.39	-3.10	17.14	<=38.45	Pass
			49	22.04	-3.10	16.79	<=38.45	Pass
		25	0	21.24	-3.10	15.99	<=38.45	Pass
			13	21.31	-3.10	16.06	<=38.45	Pass
			25	21.19	-3.10	15.94	<=38.45	Pass
		50	0	21.28	-3.10	16.03	<=38.45	Pass
	844	1	0	22.22	-3.10	16.97	<=38.45	Pass
			25	22.17	-3.10	16.92	<=38.45	Pass
			49	21.94	-3.10	16.69	<=38.45	Pass
		25	0	21.11	-3.10	15.86	<=38.45	Pass
			13	21.07	-3.10	15.82	<=38.45	Pass
			25	20.97	-3.10	15.72	<=38.45	Pass
		50	0	21.02	-3.10	15.77	<=38.45	Pass
16QAM	829	1	0	21.38	-3.10	16.13	<=38.45	Pass
			25	21.50	-3.10	16.25	<=38.45	Pass
			49	21.55	-3.10	16.30	<=38.45	Pass
		25	0	20.12	-3.10	14.87	<=38.45	Pass
			13	20.28	-3.10	15.03	<=38.45	Pass
			25	20.31	-3.10	15.06	<=38.45	Pass
		50	0	20.27	-3.10	15.02	<=38.45	Pass
	836.5	1	0	21.54	-3.10	16.29	<=38.45	Pass
			25	21.53	-3.10	16.28	<=38.45	Pass
			49	21.33	-3.10	16.08	<=38.45	Pass
		25	0	20.14	-3.10	14.89	<=38.45	Pass
			13	20.32	-3.10	15.07	<=38.45	Pass
			25	20.21	-3.10	14.96	<=38.45	Pass
		50	0	20.30	-3.10	15.05	<=38.45	Pass
	844	1	0	21.44	-3.10	16.19	<=38.45	Pass
			25	21.32	-3.10	16.07	<=38.45	Pass
			49	21.10	-3.10	15.85	<=38.45	Pass
		25	0	20.05	-3.10	14.80	<=38.45	Pass
			13	20.21	-3.10	14.96	<=38.45	Pass
			25	20.03	-3.10	14.78	<=38.45	Pass
		50	0	20.02	-3.10	14.77	<=38.45	Pass
64QAM	829	1	0	20.44	-3.10	15.19	<=38.45	Pass
			25	20.40	-3.10	15.15	<=38.45	Pass

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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Mobile: +86 15118052731
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Test Report No.: RF260703B001

		25	49	20.42	-3.10	15.17	<=38.45	Pass	
			0	19.11	-3.10	13.86	<=38.45	Pass	
			13	19.25	-3.10	14.00	<=38.45	Pass	
			25	19.31	-3.10	14.06	<=38.45	Pass	
		50	0	19.27	-3.10	14.02	<=38.45	Pass	
	836.5	1	0	20.41	-3.10	15.16	<=38.45	Pass	
			25	20.40	-3.10	15.15	<=38.45	Pass	
			49	20.33	-3.10	15.08	<=38.45	Pass	
		25	0	19.35	-3.10	14.10	<=38.45	Pass	
			13	19.29	-3.10	14.04	<=38.45	Pass	
			25	19.19	-3.10	13.94	<=38.45	Pass	
		50	0	19.27	-3.10	14.02	<=38.45	Pass	
		844	1	0	20.28	-3.10	15.03	<=38.45	Pass
				25	20.13	-3.10	14.88	<=38.45	Pass
	49			20.17	-3.10	14.92	<=38.45	Pass	
	25		0	19.08	-3.10	13.83	<=38.45	Pass	
			13	19.11	-3.10	13.86	<=38.45	Pass	
			25	19.11	-3.10	13.86	<=38.45	Pass	
	50		0	18.94	-3.10	13.69	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

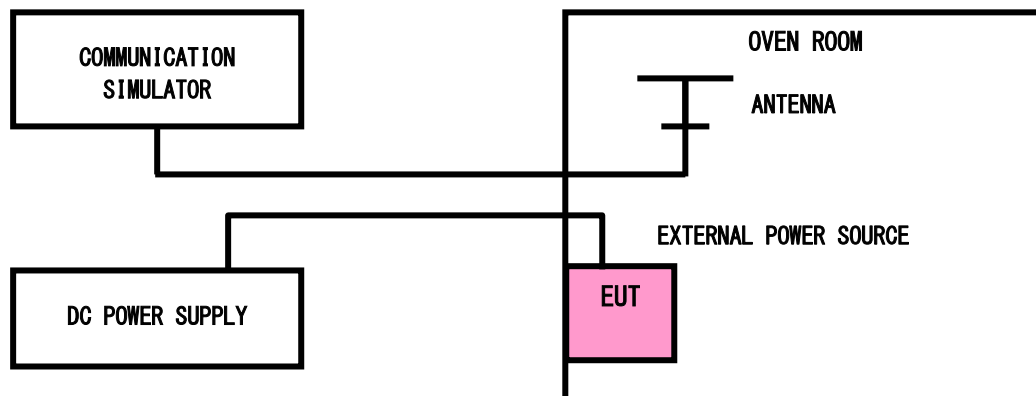
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

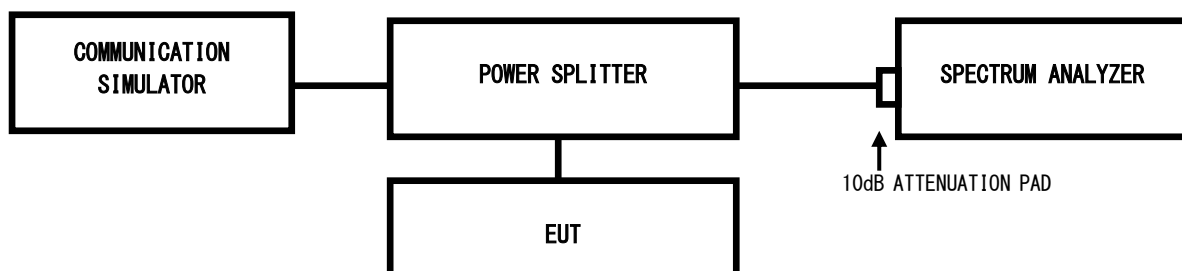
Please Refer to Appendix Of this test report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

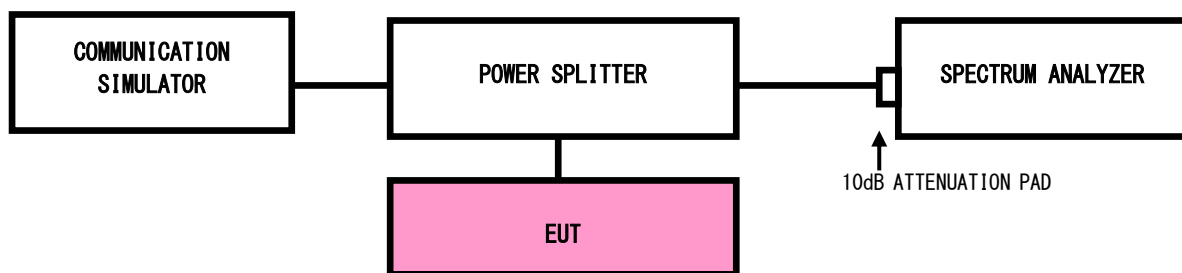
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP





Test Report No.: RF260703B001

3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

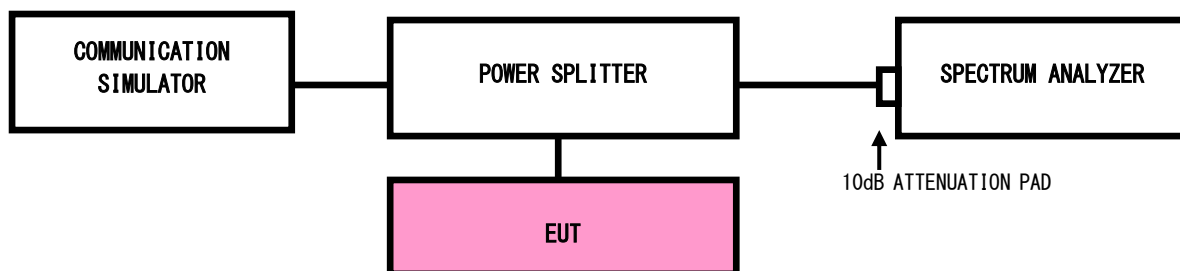
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



Test Report No.: RF260703B001

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

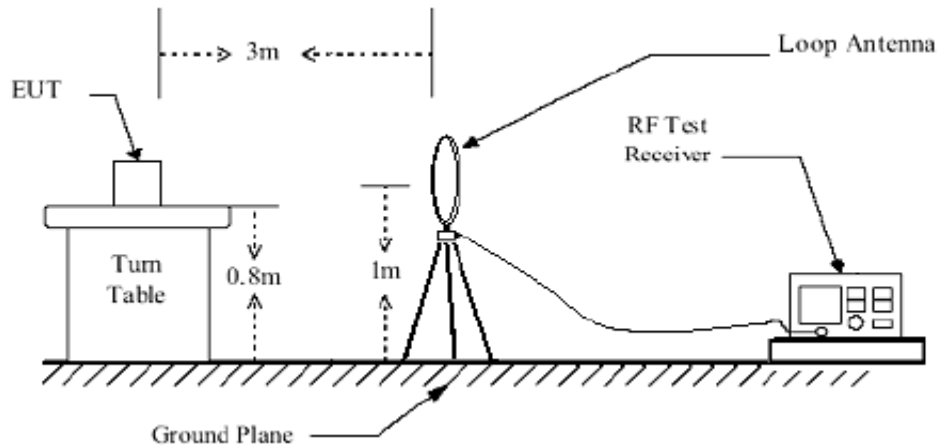
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

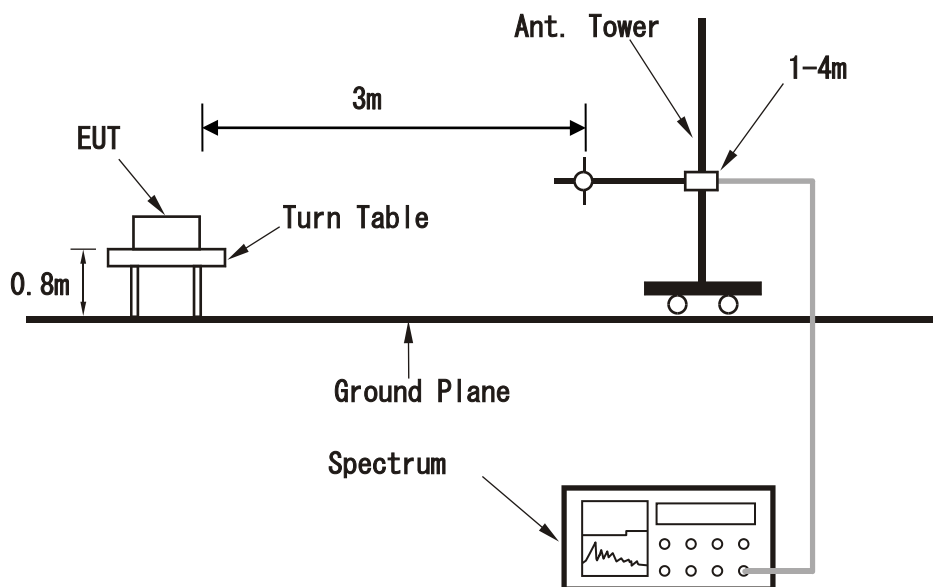
No deviation

3.6.4 TEST SETUP

< Frequency Range below 30MHz >

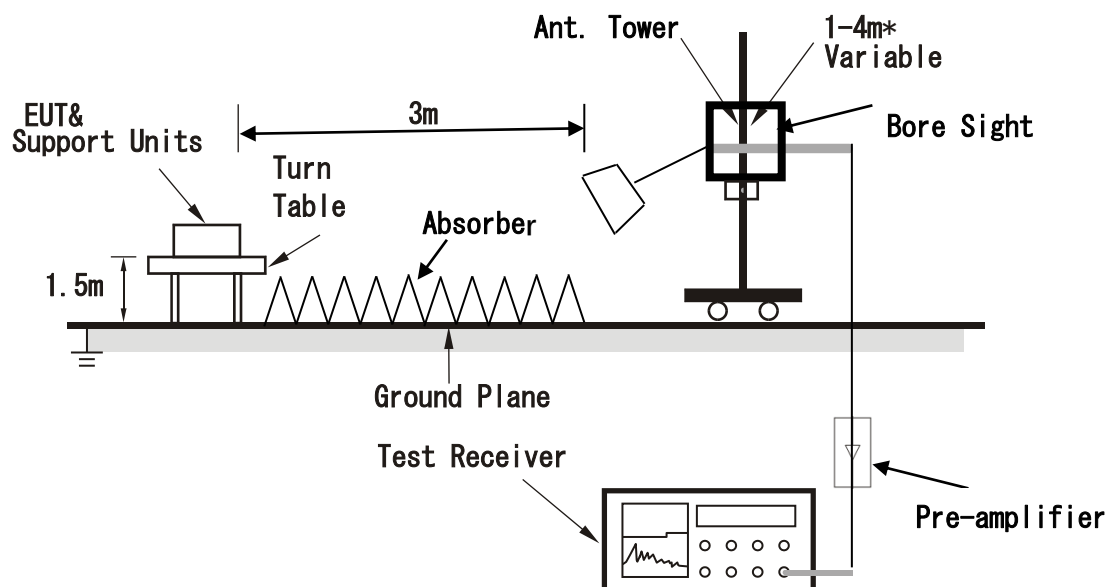


< Frequency Range 30MHz~1GHz >



Test Report No.: RF260703B001

<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



Test Report No.: RF260703B001

3.6.5 TEST RESULTS

NOTE1 : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

NOTE2: The measurement range is 30M to the tenth harmonic of the highest fundamental frequency, For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report

GSM850

Test result:

ANT2:

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
320	-86.99	-13.00	Vertical
480	-79.85	-13.00	Vertical
1160	-67.63	-13.00	Vertical
2410	-58.98	-13.00	Vertical
3590	-58.18	-13.00	Vertical
4640	-60.56	-13.00	Vertical
5640	-59.40	-13.00	Vertical

WCDMA band V

Test result:

WCDMA Mode:

ANT2 Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
75	-90.37	-13	Vertical
490.66	-99.34	-13	Vertical
879.41	-88.77	-13	Vertical
2459.12	-75.14	-13	Vertical
3420	-77.37	-13	Vertical
6720	-79.15	-13	Vertical
10940	-72.03	-13	Vertical



Test Report No.: RF260703B001

LTE band 5

Test result:

ANT2 Channel 20525

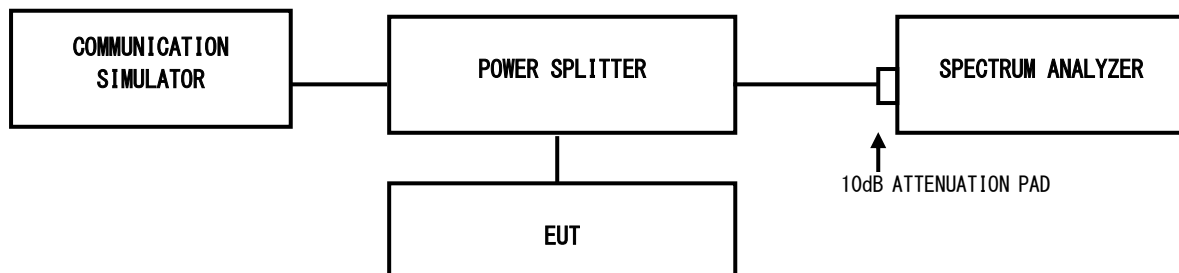
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
581.19	-99.58	-13.00	Vertical
879.61	-84.47	-13.00	Vertical
950.51	-91.26	-13.00	Vertical
1674.80	-85.86	-13.00	Vertical
3420	-82.01	-13.00	Vertical
8610	-76.91	-13.00	Vertical
11530	-71.34	-13.00	Vertical

3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: RF260703B001

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 INFORMATION ON THE TESTING LABORATORIES

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com



Test Report No.: RF260703B001

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



Test Report No.: RF260703B001

7 APPENDIX

GSM850

PEAK-TO-AVERAGE RATIO (CCDF)

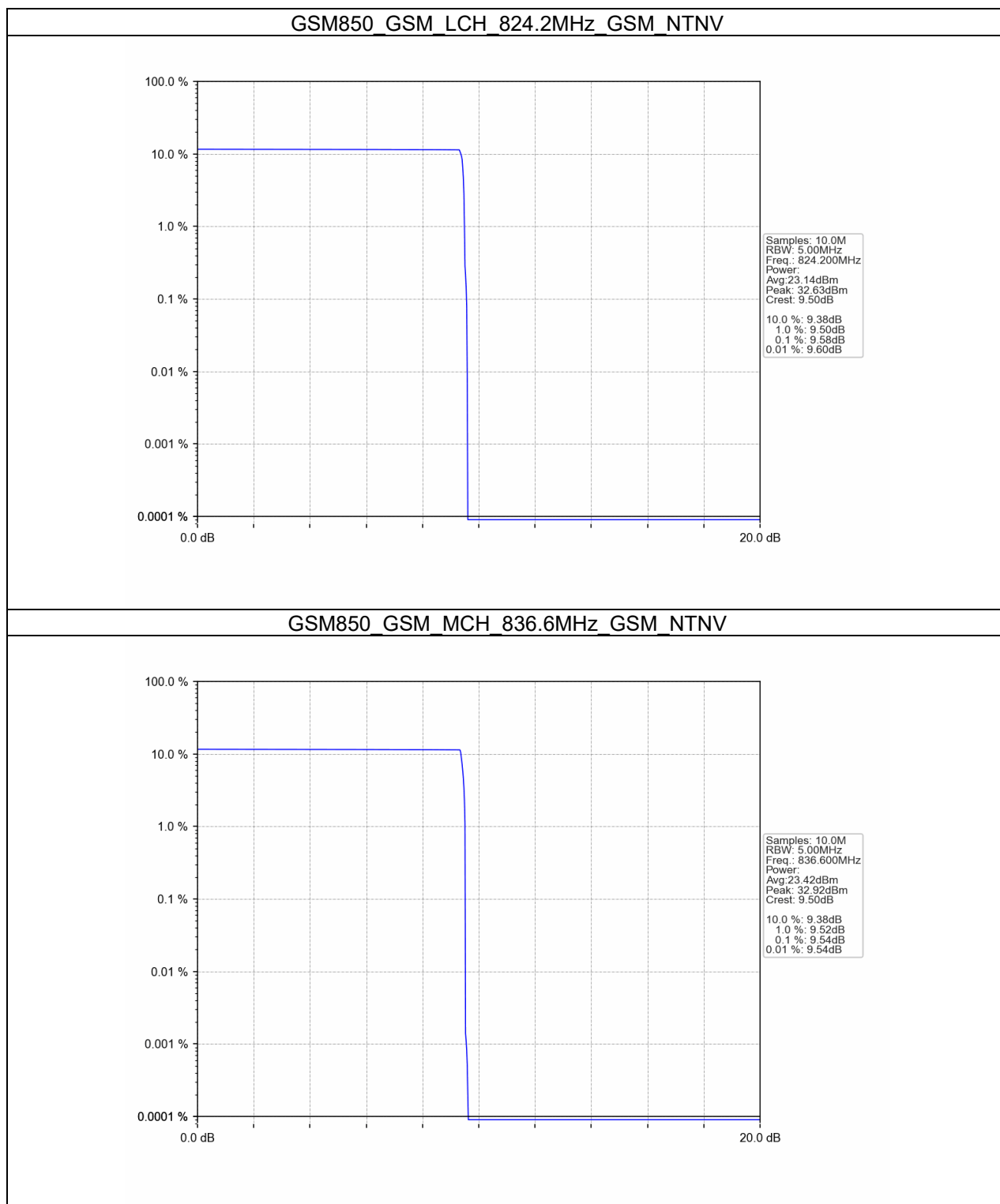
Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.58	<=13	Pass
			836.6	9.54	<=13	Pass
			848.8	9.56	<=13	Pass
	GPRS	4 TX Slots	824.2	3.74	<=13	Pass
			836.6	3.76	<=13	Pass
			848.8	3.76	<=13	Pass



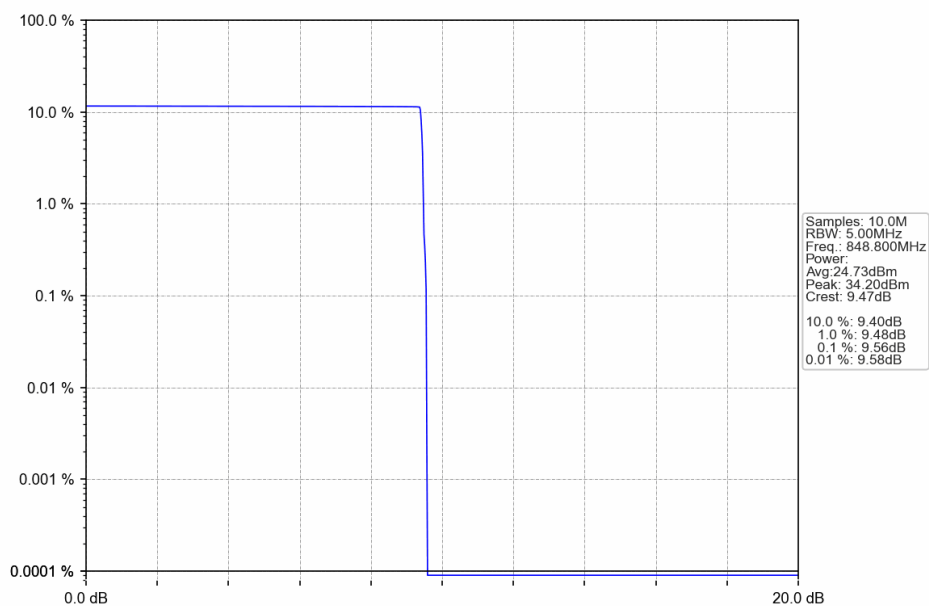
Test Report No.: RF260703B001

Test Graphs

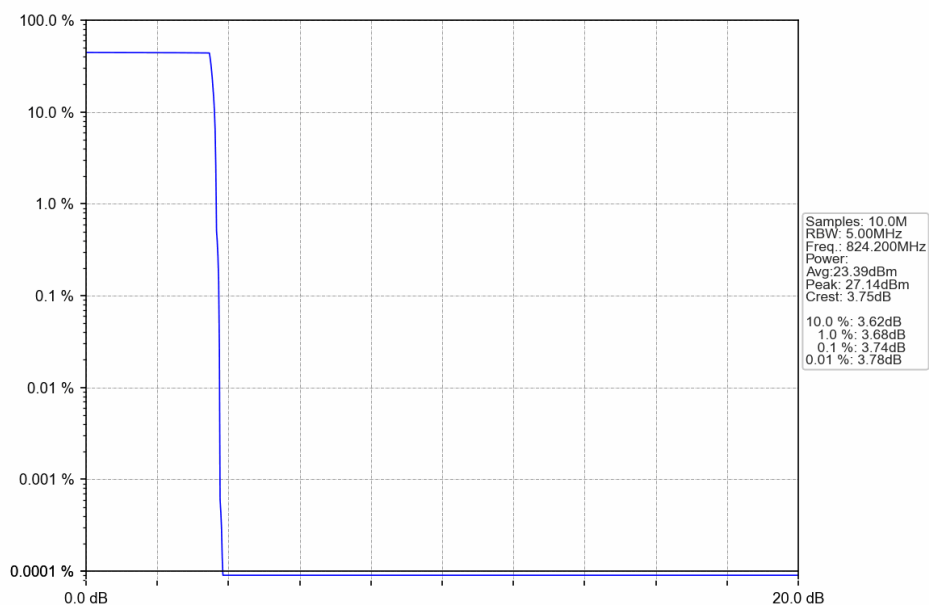


Test Report No.: RF260703B001

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



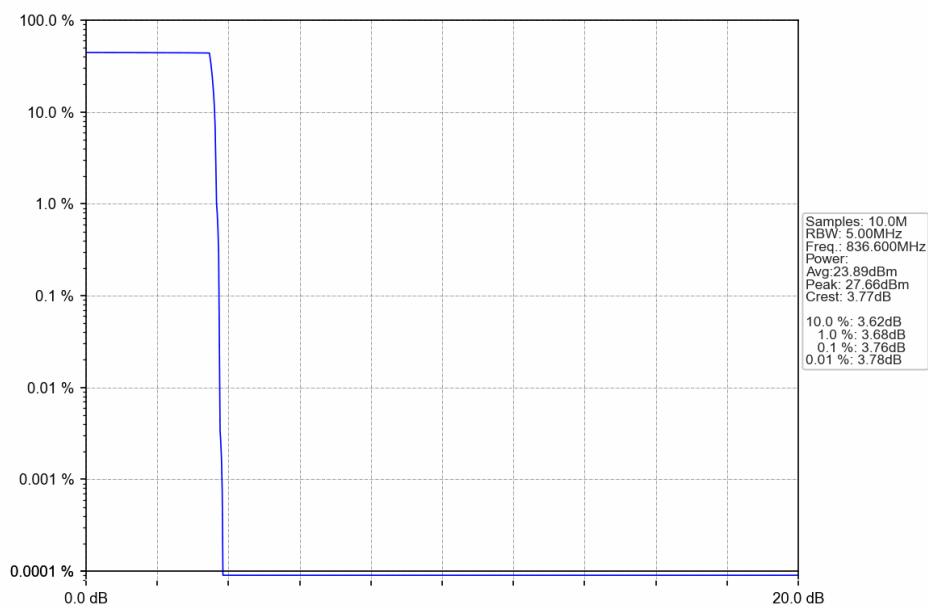
GSM850_GPRS_LCH_824.2MHz_4 TX Slots NTN



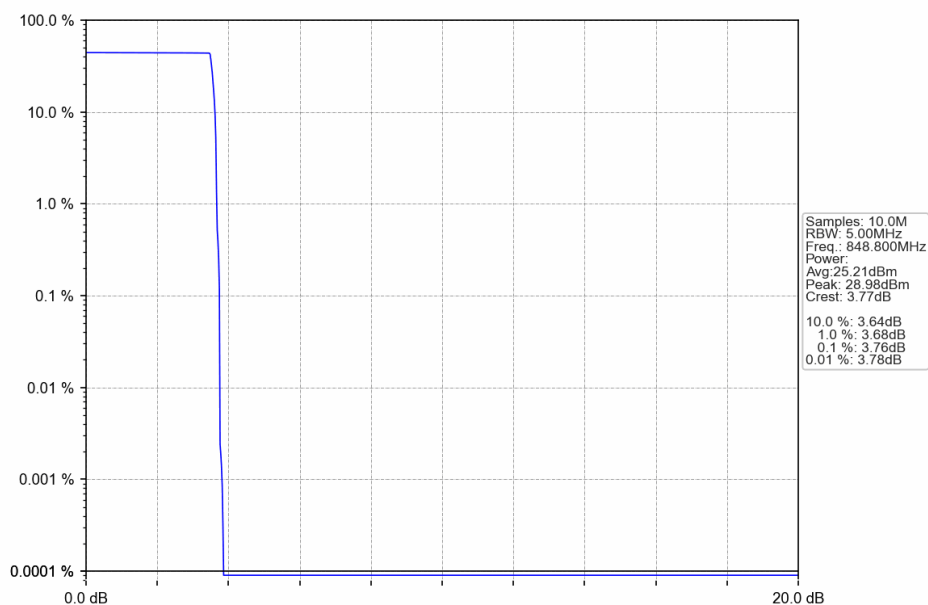


Test Report No.: RF260703B001

GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV





Test Report No.: RF260703B001

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.316	/	Pass
			836.6	0.318	/	Pass
			848.8	0.309	/	Pass
	GPRS	1 TX Slot	824.2	0.318	/	Pass
			836.6	0.308	/	Pass
			848.8	0.313	/	Pass

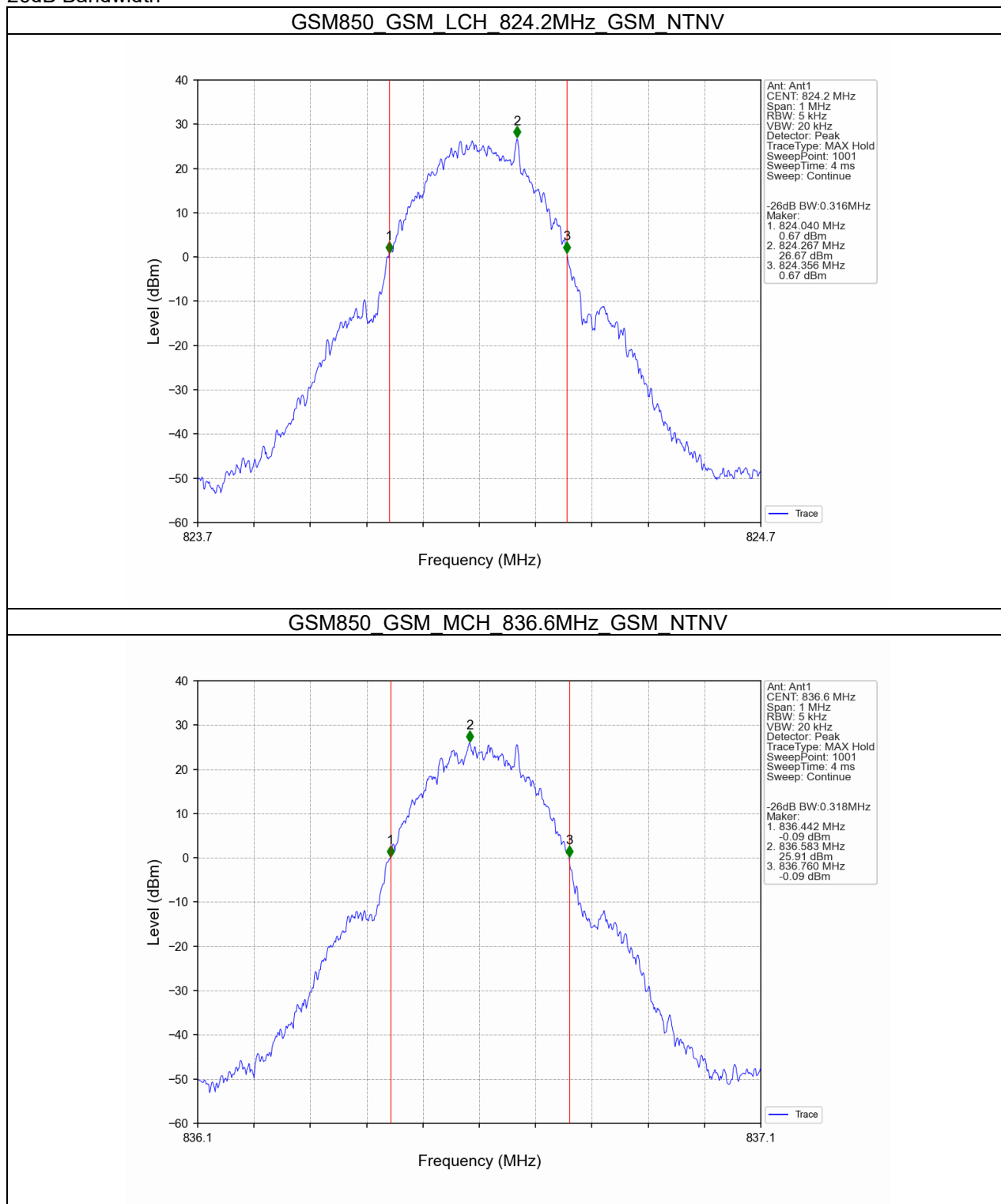
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.245	/	Pass
			836.6	0.247	/	Pass
			848.8	0.246	/	Pass
	GPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.241	/	Pass
			848.8	0.246	/	Pass



Test Report No.: RF260703B001

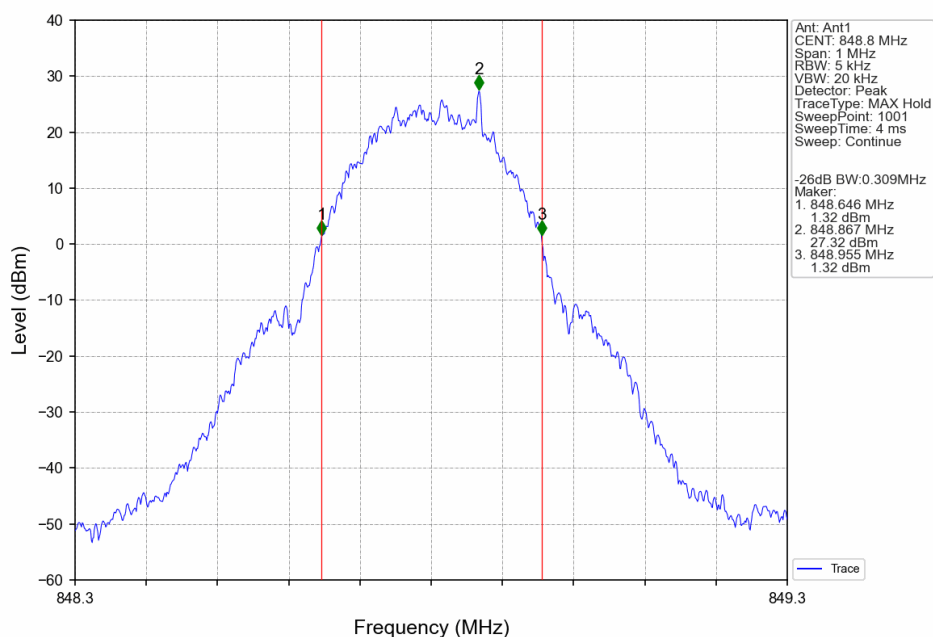
Test Graphs

26dB Bandwidth

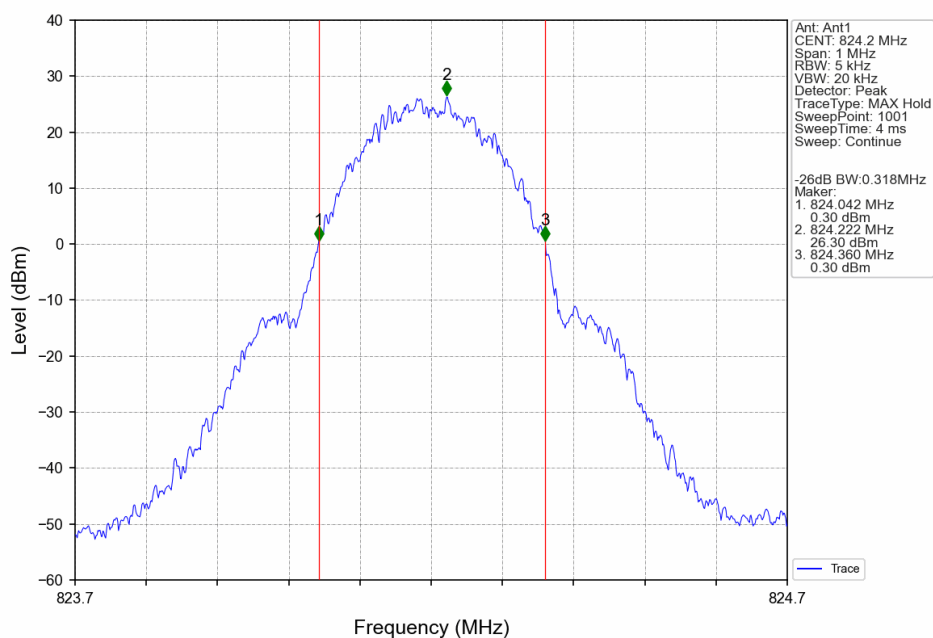


Test Report No.: RF260703B001

GSM850_GSM_HCH_848.8MHz_GSM_NTNV

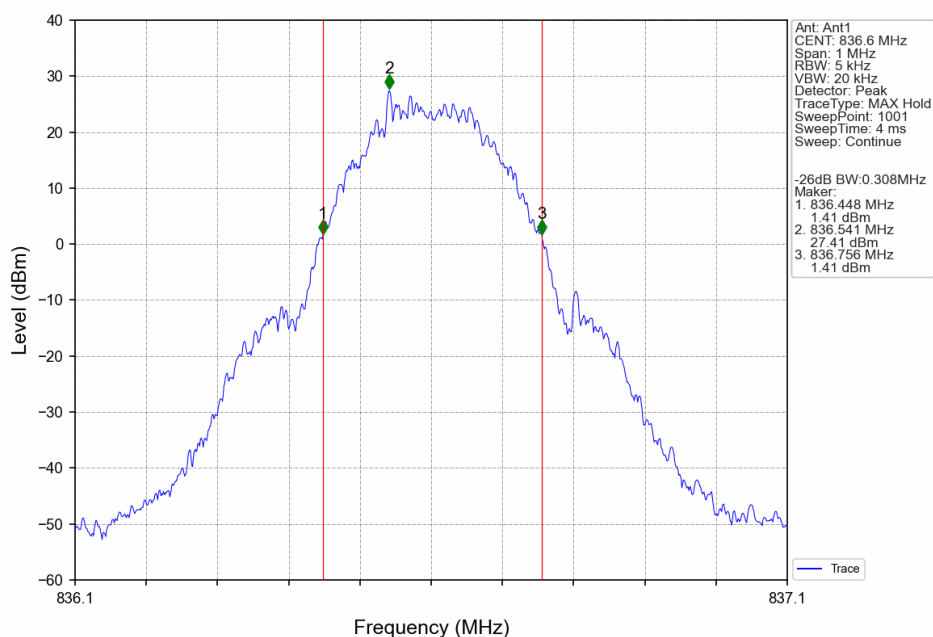


GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

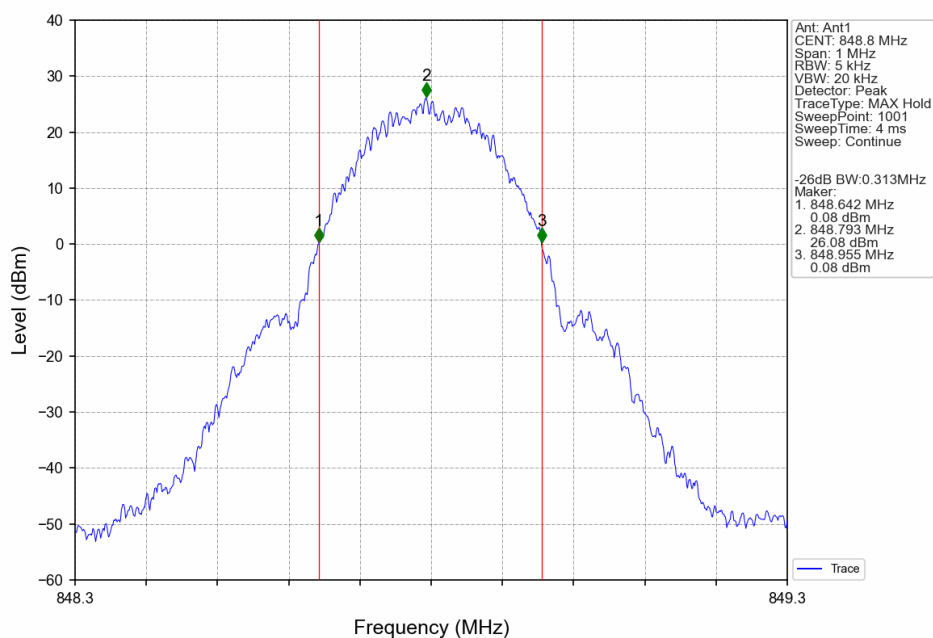


Test Report No.: RF260703B001

GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



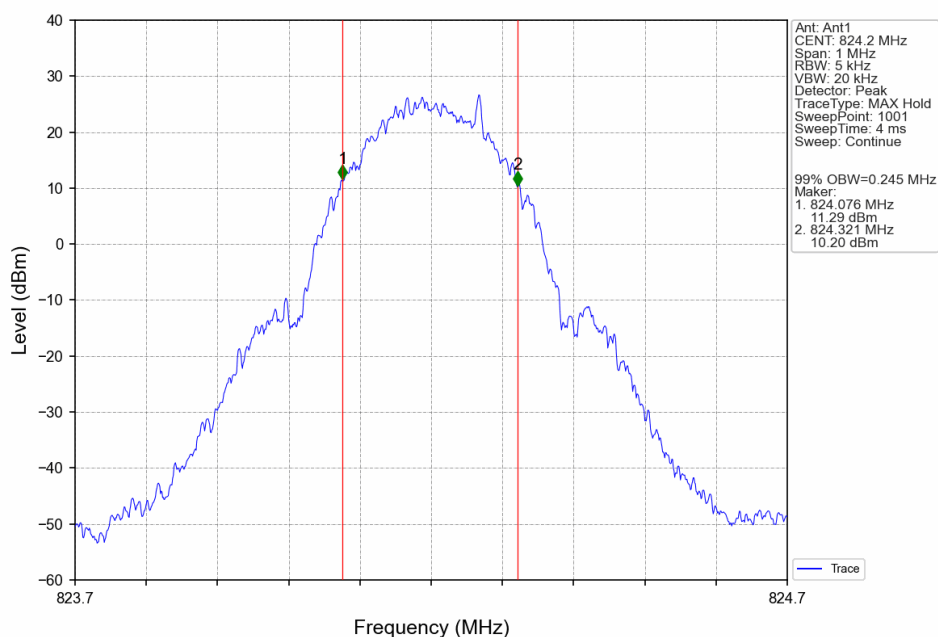
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



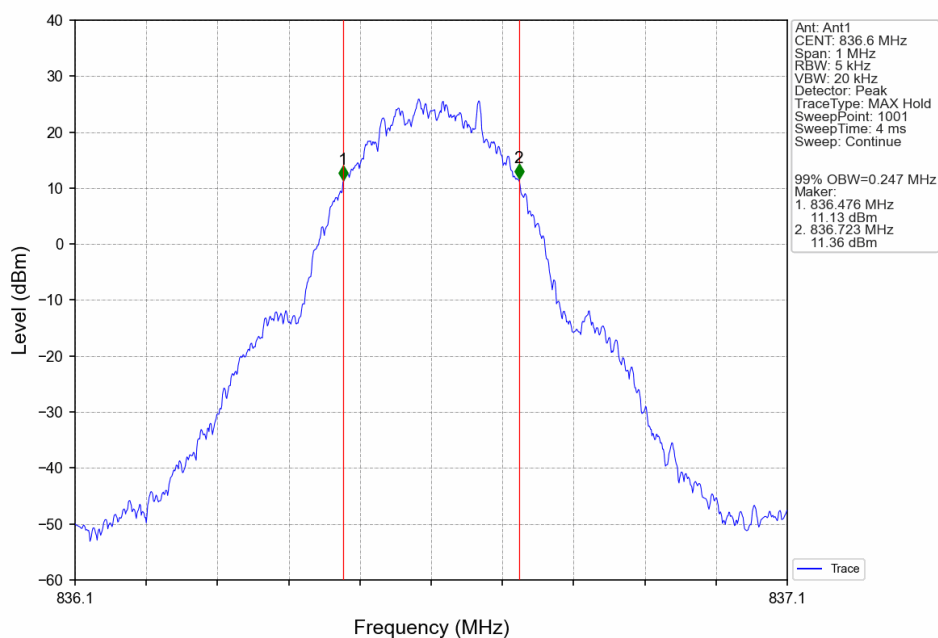
Test Report No.: RF260703B001

99% Occupied Bandwidth

GSM850 GSM LCH 824.2MHz GSM NTN

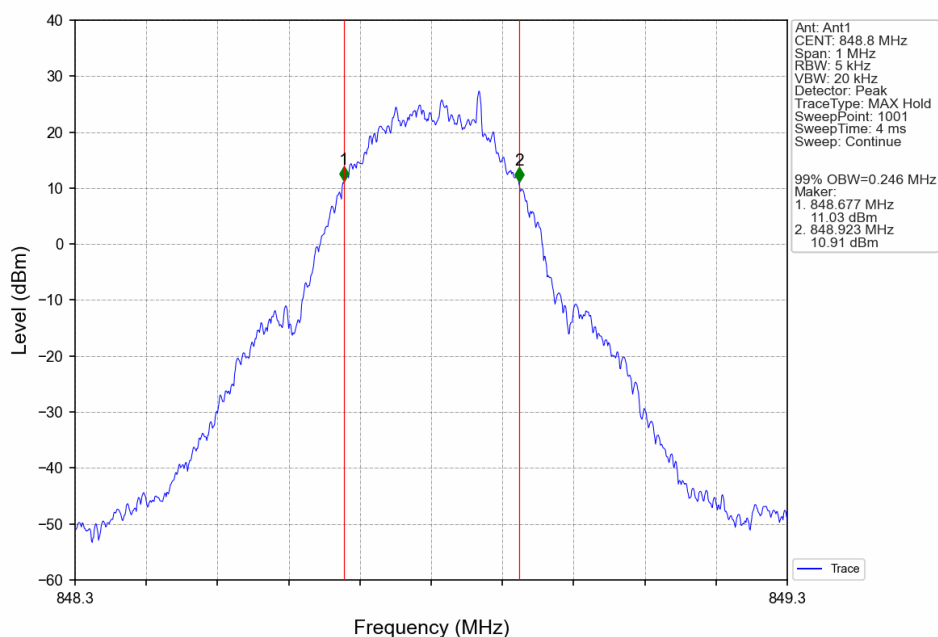


GSM850 GSM MCH 836.6MHz GSM NTN

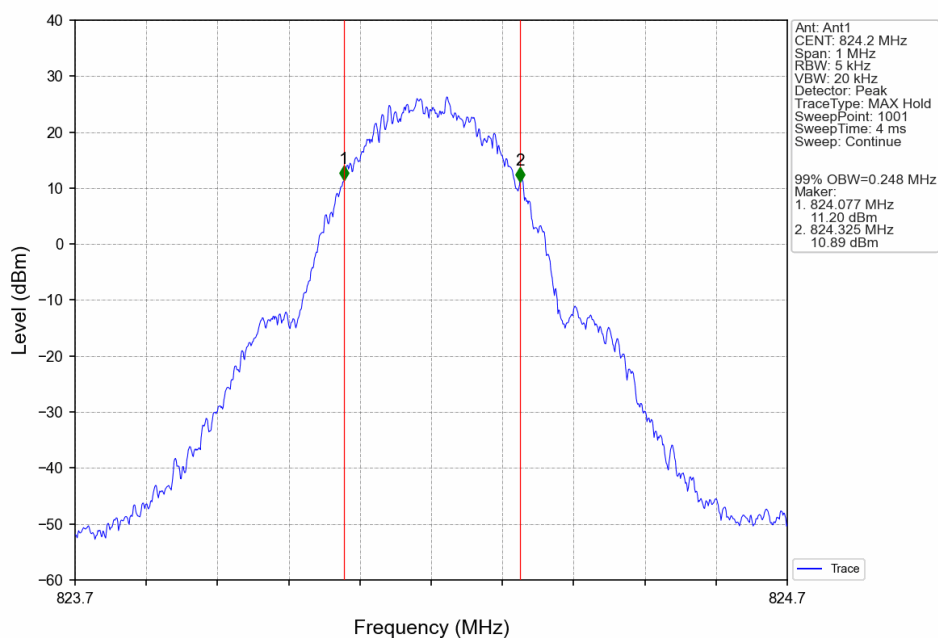


Test Report No.: RF260703B001

GSM850_GSM_HCH_848.8MHz_GSM_NTNV

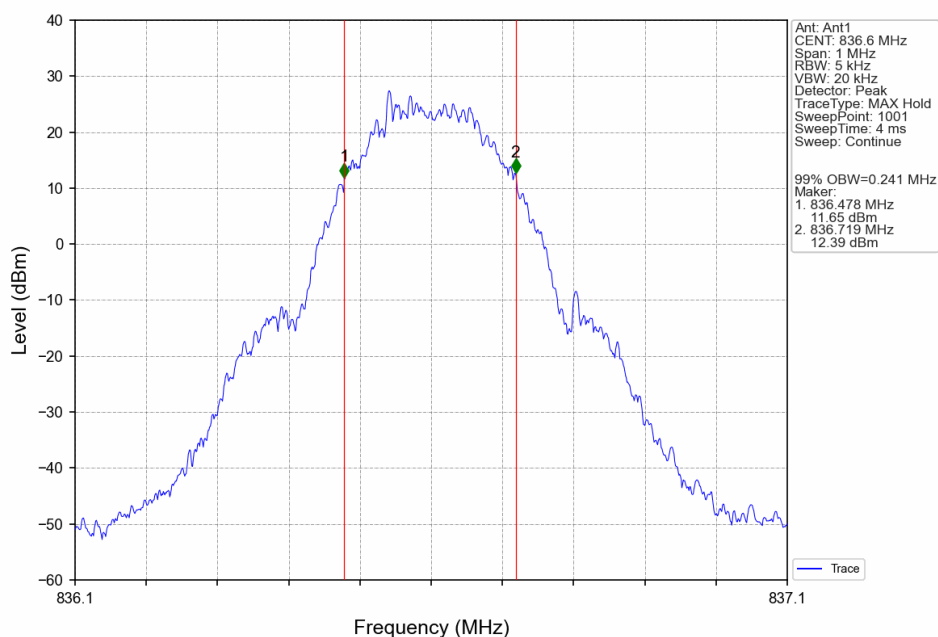


GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

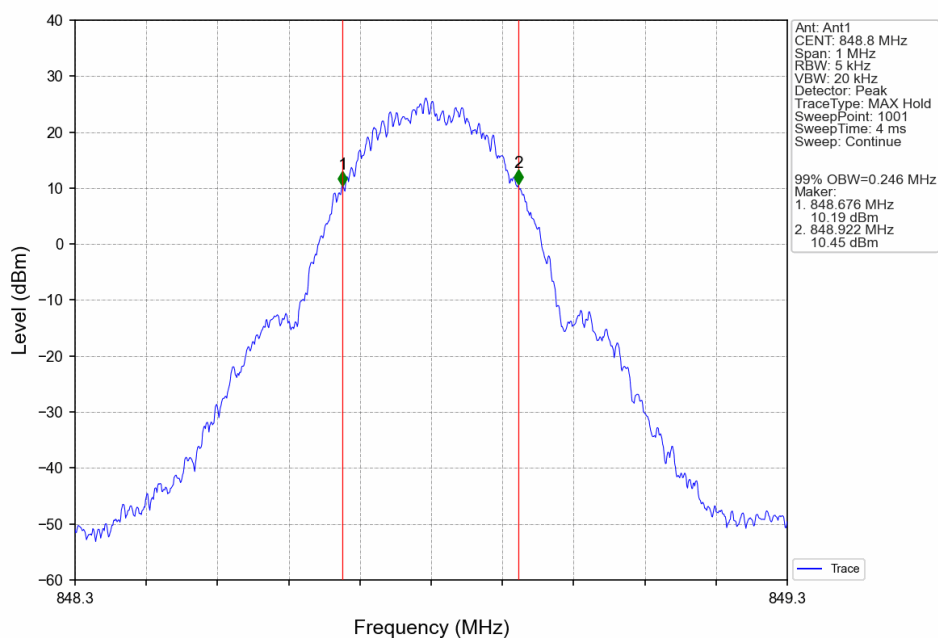


Test Report No.: RF260703B001

GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV





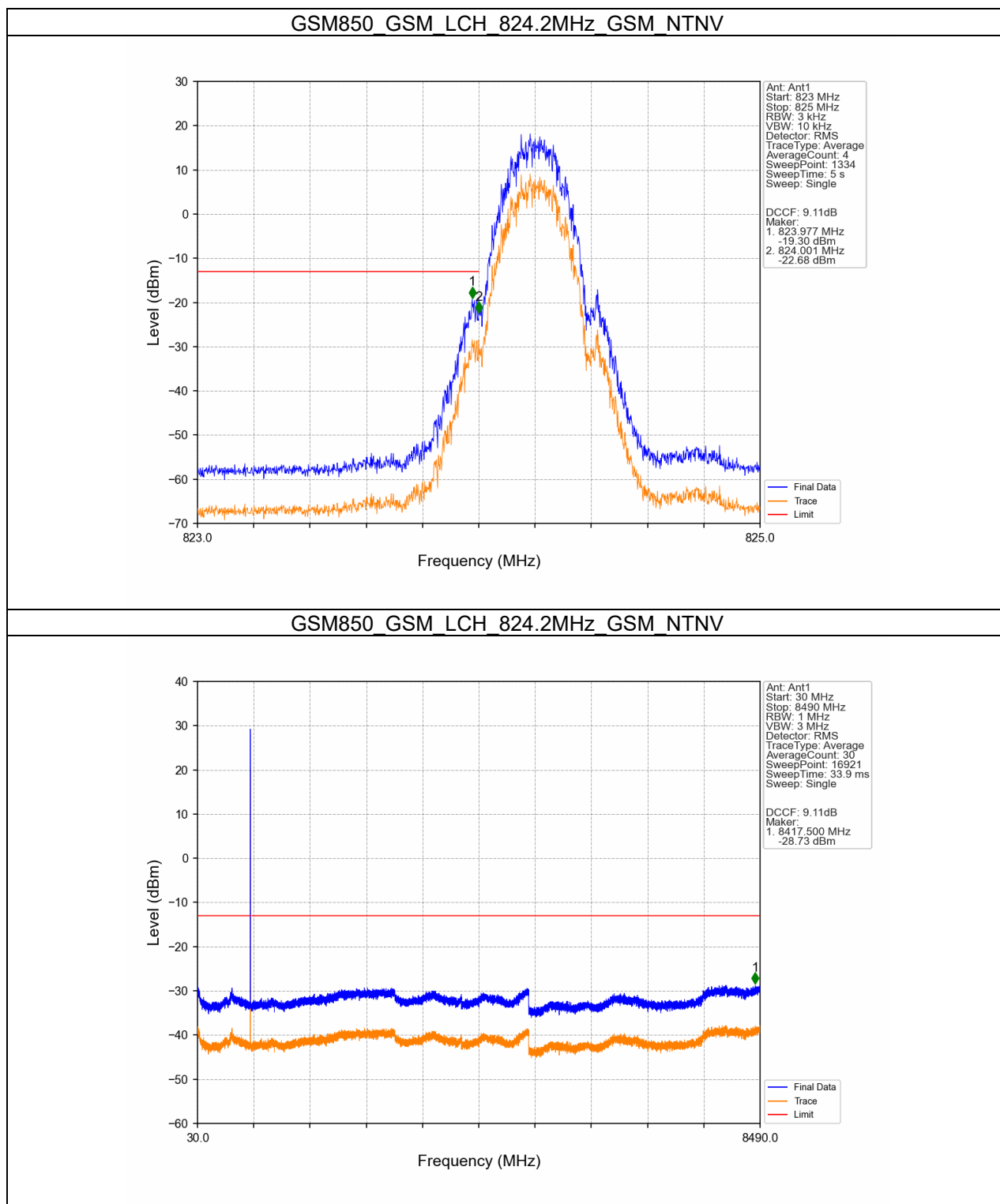
Test Report No.: RF260703B001

BAND EDGE AND SPURIOUS EMISSION

Test Result

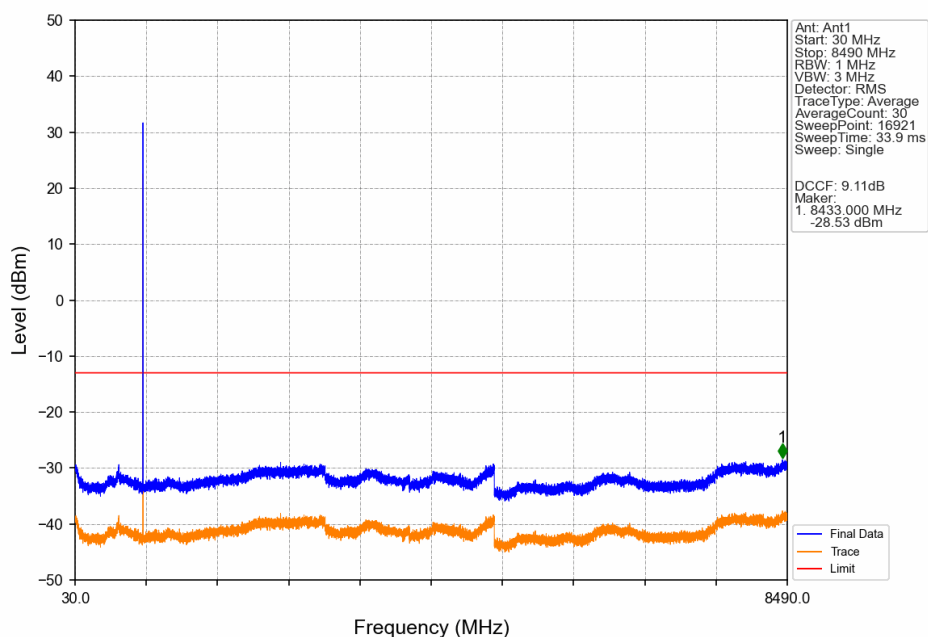
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

Test Graphs

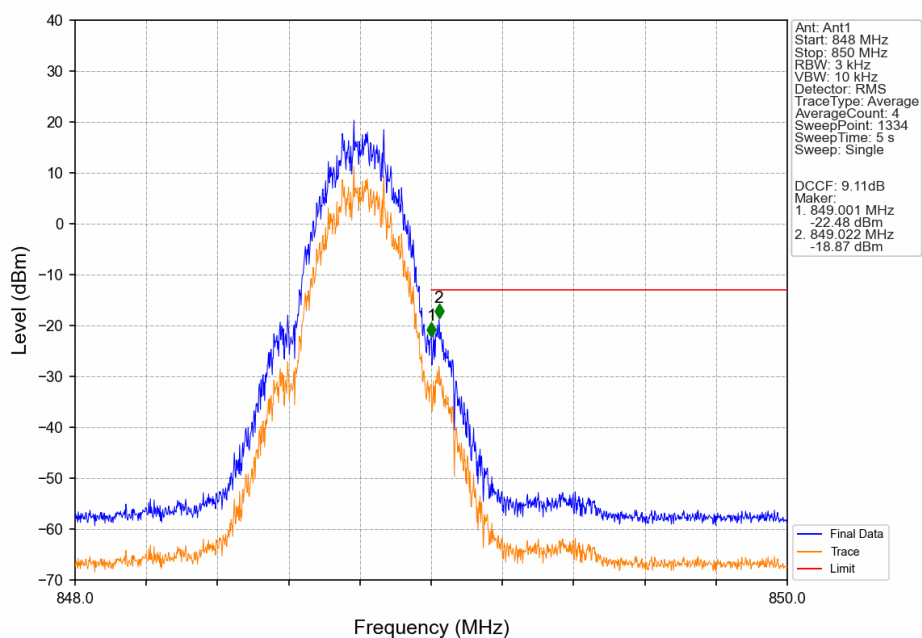


Test Report No.: RF260703B001

GSM850_GSM_MCH_836.6MHz_GSM_NTNV

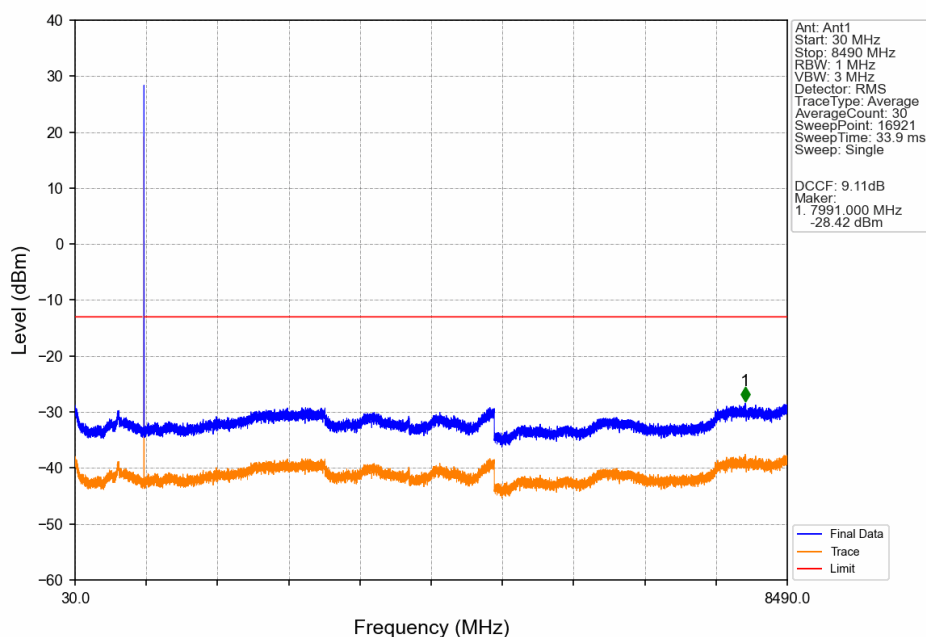


GSM850 GSM HCH 848.8MHz GSM NTN

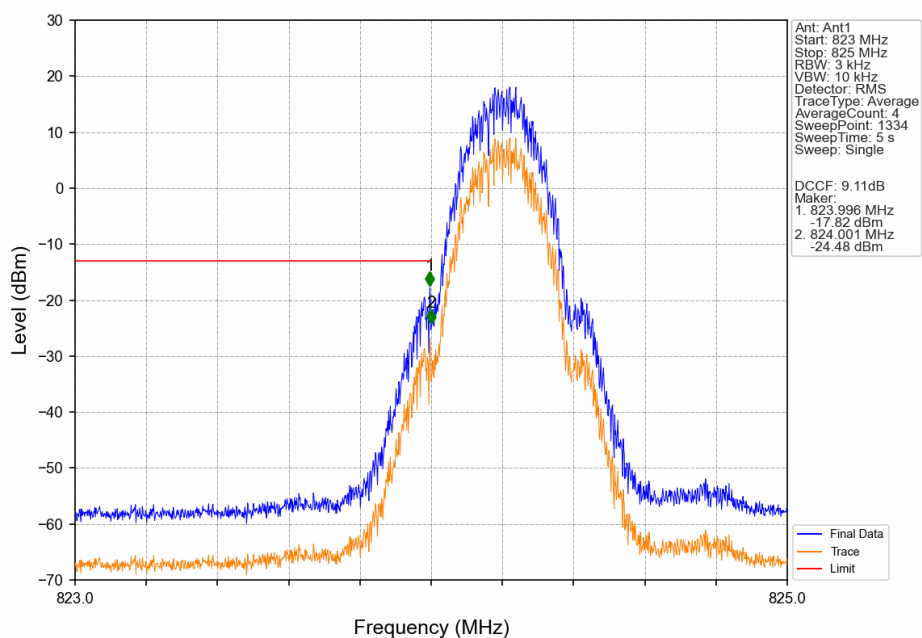


Test Report No.: RF260703B001

GSM850_GSM_HCH_848.8MHz_GSM_NTNV

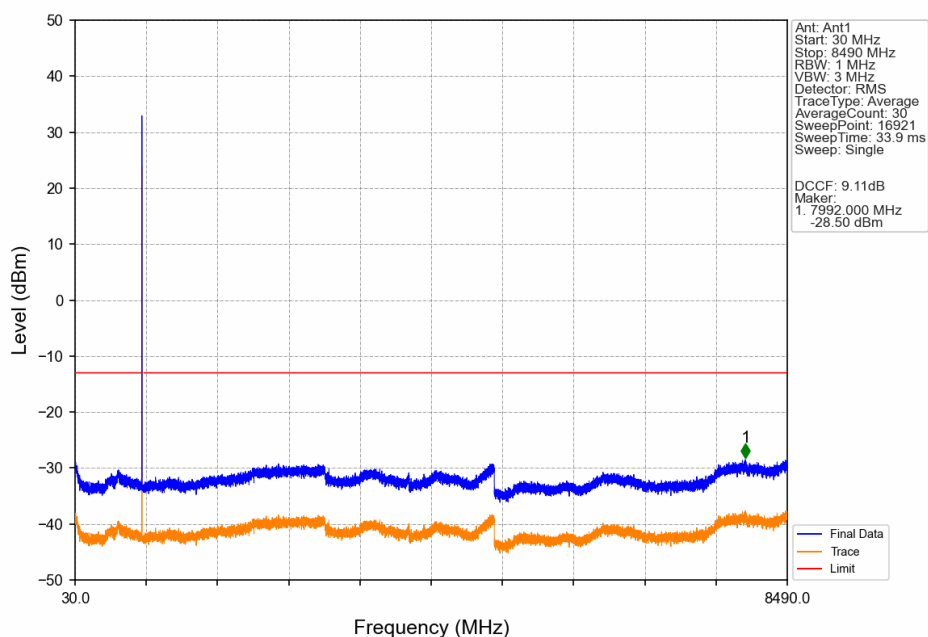


GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

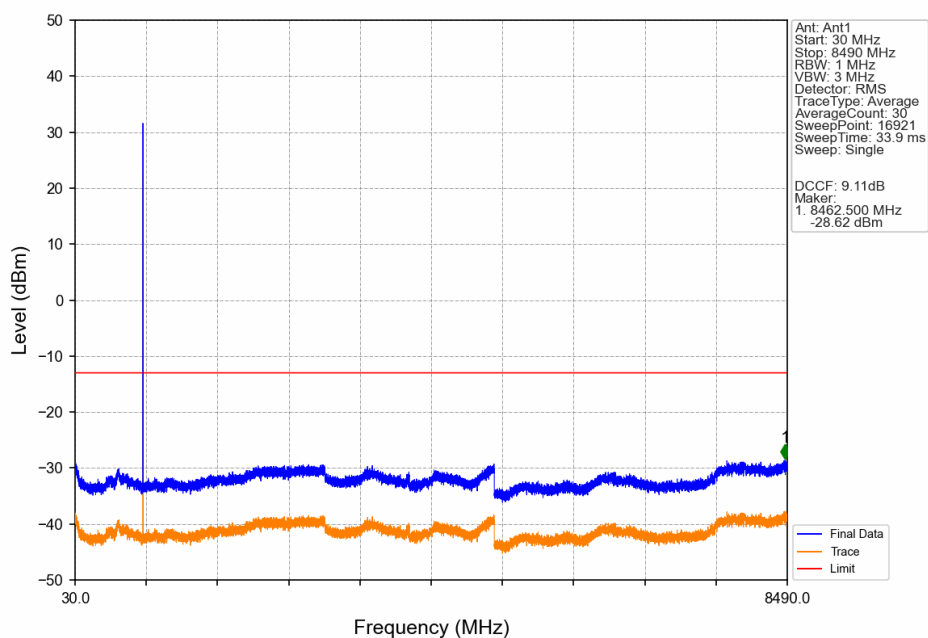


Test Report No.: RF260703B001

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV

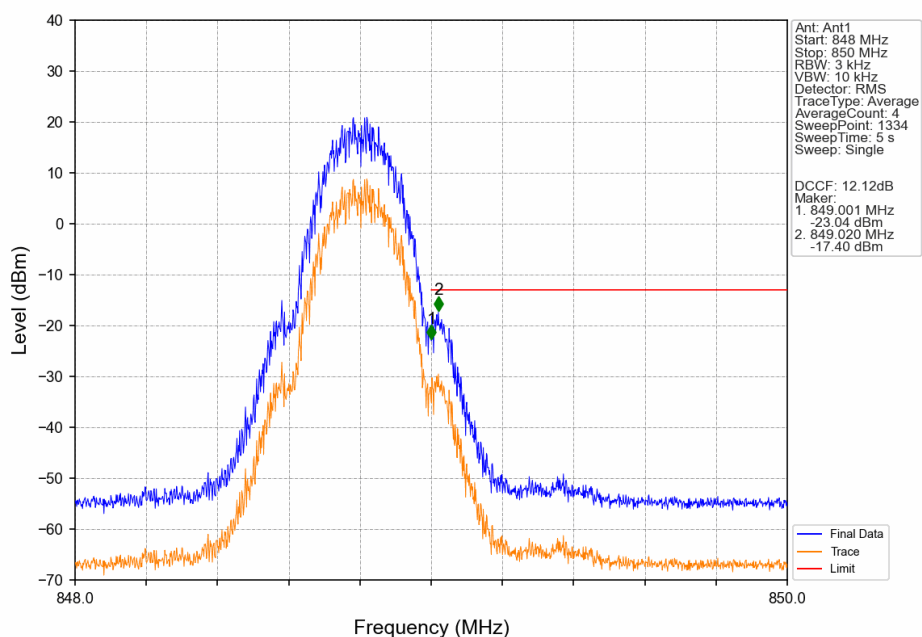


GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV

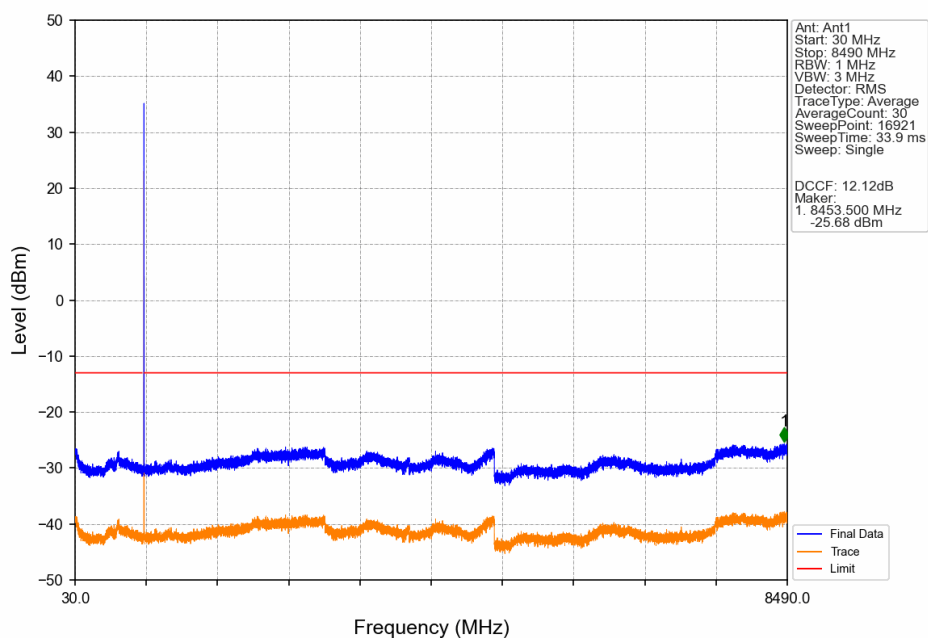


Test Report No.: RF260703B001

GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV





Test Report No.: RF260703B001

FREQUENCY STABILITY

Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.4	17.596	0.0213	-2.5 to 2.5	Pass
			4	28.250	0.0343	-2.5 to 2.5	Pass
			4.6	23.698	0.0288	-2.5 to 2.5	Pass
		5	4	24.344	0.0295	-2.5 to 2.5	Pass
		15	4	20.663	0.0251	-2.5 to 2.5	Pass
		25	4	18.242	0.0221	-2.5 to 2.5	Pass
		35	4	19.565	0.0237	-2.5 to 2.5	Pass
	836.6	20	3.4	23.214	0.0277	-2.5 to 2.5	Pass
			4	18.629	0.0223	-2.5 to 2.5	Pass
			4.6	23.375	0.0279	-2.5 to 2.5	Pass
		5	4	20.566	0.0246	-2.5 to 2.5	Pass
		15	4	19.694	0.0235	-2.5 to 2.5	Pass
		25	4	15.691	0.0188	-2.5 to 2.5	Pass
		35	4	18.080	0.0216	-2.5 to 2.5	Pass
	848.8	20	3.4	20.598	0.0243	-2.5 to 2.5	Pass
			4	18.242	0.0215	-2.5 to 2.5	Pass
			4.6	19.759	0.0233	-2.5 to 2.5	Pass
		5	4	22.019	0.0259	-2.5 to 2.5	Pass
		15	4	20.502	0.0242	-2.5 to 2.5	Pass
		25	4	22.568	0.0266	-2.5 to 2.5	Pass
		35	4	18.338	0.0216	-2.5 to 2.5	Pass
GPRS	824.2	20	3.4	27.863	0.0338	-2.5 to 2.5	Pass
			4	29.606	0.0359	-2.5 to 2.5	Pass
			4.6	28.476	0.0345	-2.5 to 2.5	Pass
		5	4	29.057	0.0353	-2.5 to 2.5	Pass
		15	4	28.541	0.0346	-2.5 to 2.5	Pass
		25	4	30.381	0.0369	-2.5 to 2.5	Pass
		35	4	29.025	0.0352	-2.5 to 2.5	Pass
	836.6	20	3.4	29.445	0.0352	-2.5 to 2.5	Pass
			4	30.316	0.0362	-2.5 to 2.5	Pass
			4.6	30.155	0.0360	-2.5 to 2.5	Pass
		5	4	30.090	0.0360	-2.5 to 2.5	Pass
		15	4	29.283	0.0350	-2.5 to 2.5	Pass
		25	4	29.057	0.0347	-2.5 to 2.5	Pass
		35	4	29.251	0.0350	-2.5 to 2.5	Pass
	848.8	20	3.4	28.638	0.0337	-2.5 to 2.5	Pass
			4	28.831	0.0340	-2.5 to 2.5	Pass
			4.6	29.671	0.0350	-2.5 to 2.5	Pass
		5	4	28.960	0.0341	-2.5 to 2.5	Pass
		15	4	27.766	0.0327	-2.5 to 2.5	Pass
		25	4	27.540	0.0324	-2.5 to 2.5	Pass
		35	4	27.346	0.0322	-2.5 to 2.5	Pass



Test Report No.: RF260703B001

WCMDA BAND5

PEAK-TO-AVERAGE RATIO

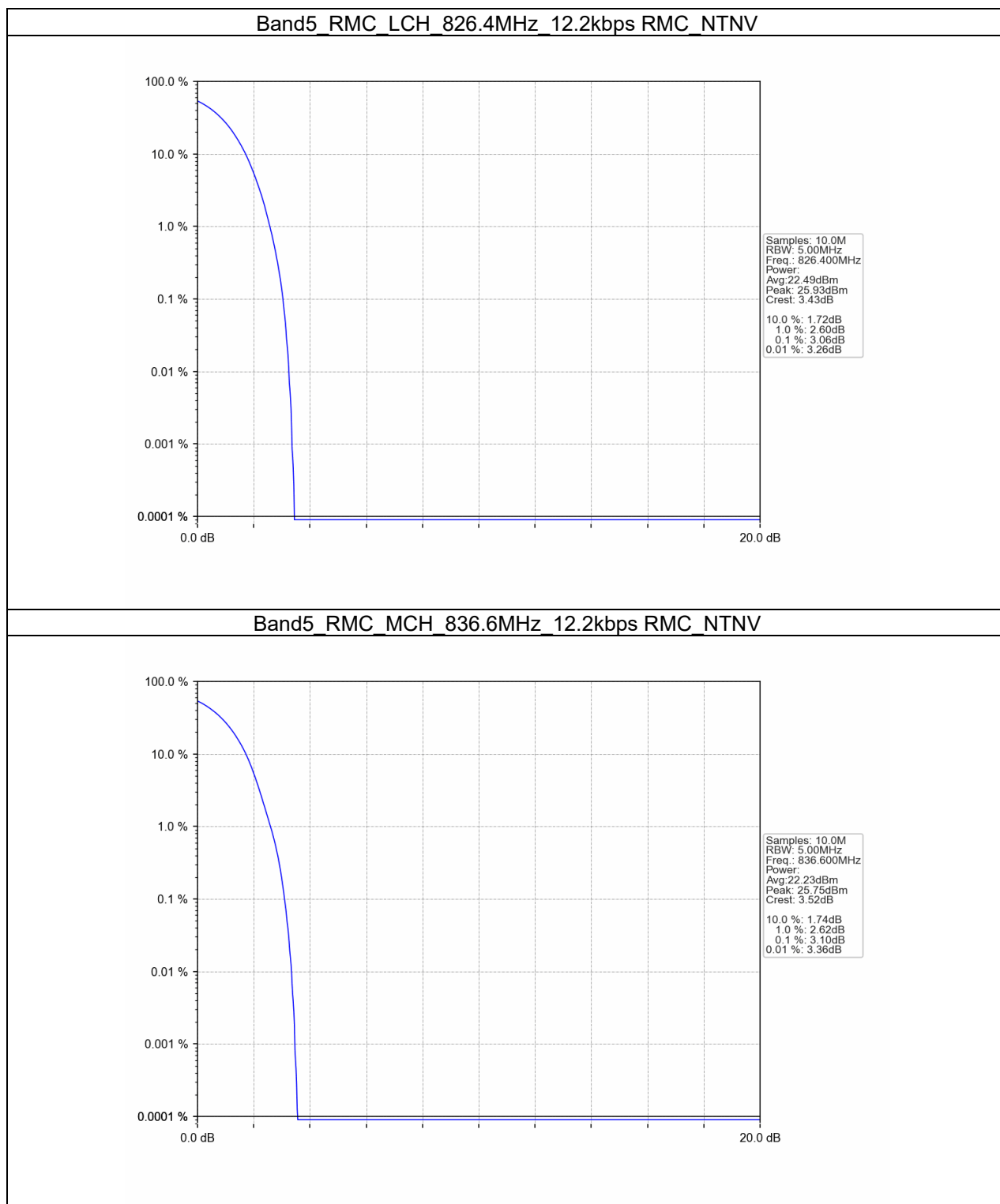
Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.06	<=13	Pass
			836.6	3.10	<=13	Pass
			846.6	3.12	<=13	Pass
	HSDPA	Subtest 1	826.4	6.04	<=13	Pass
			836.6	6.02	<=13	Pass
			846.6	6.16	<=13	Pass
	HSUPA	Subtest 1	826.4	7.02	<=13	Pass
			836.6	7.10	<=13	Pass
			846.6	7.10	<=13	Pass



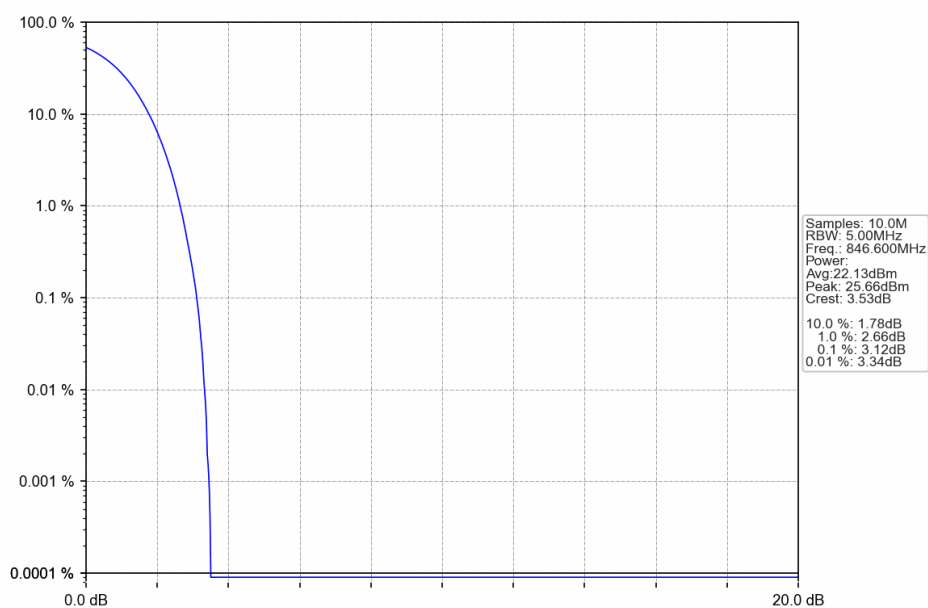
Test Report No.: RF260703B001

Test Graphs

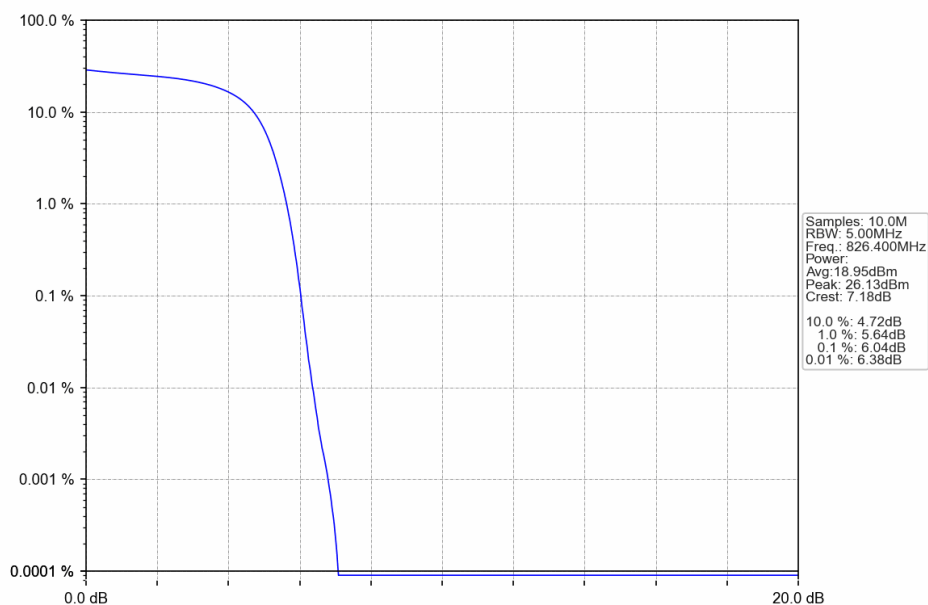


Test Report No.: RF260703B001

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

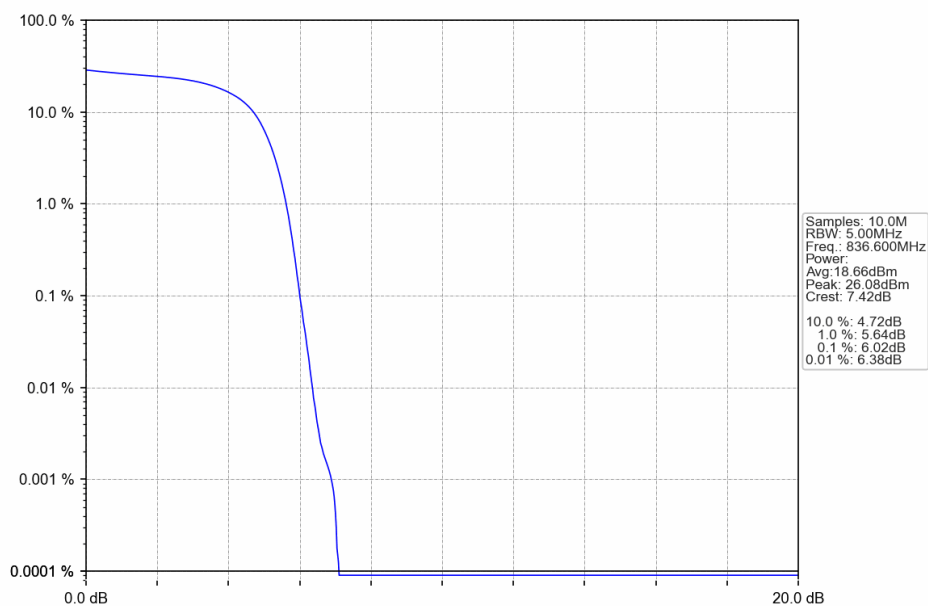


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

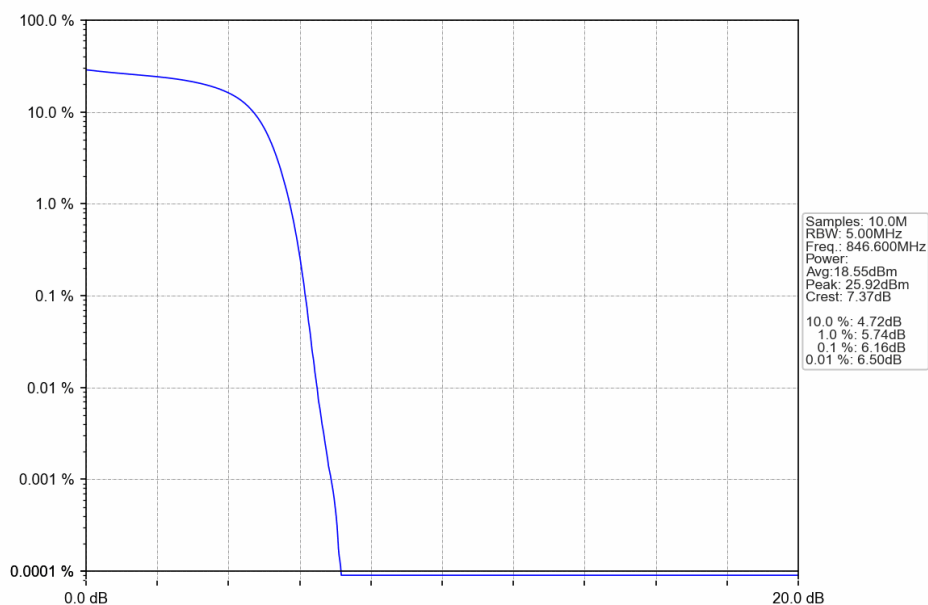


Test Report No.: RF260703B001

Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

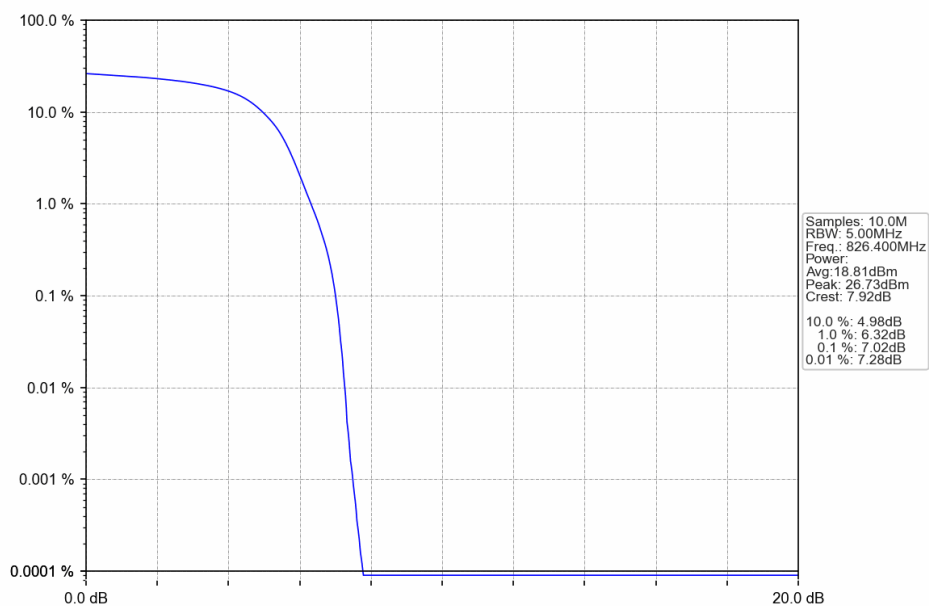


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

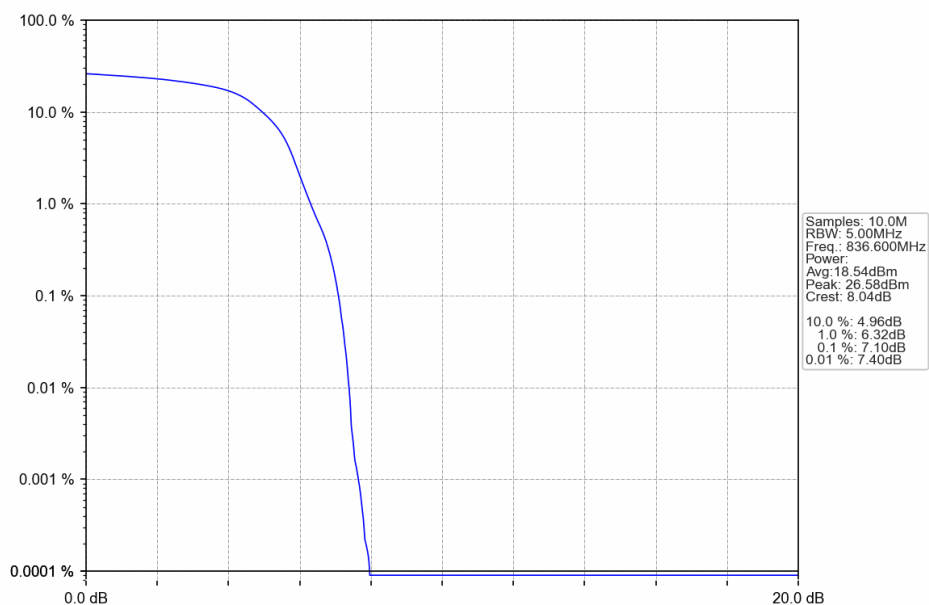


Test Report No.: RF260703B001

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

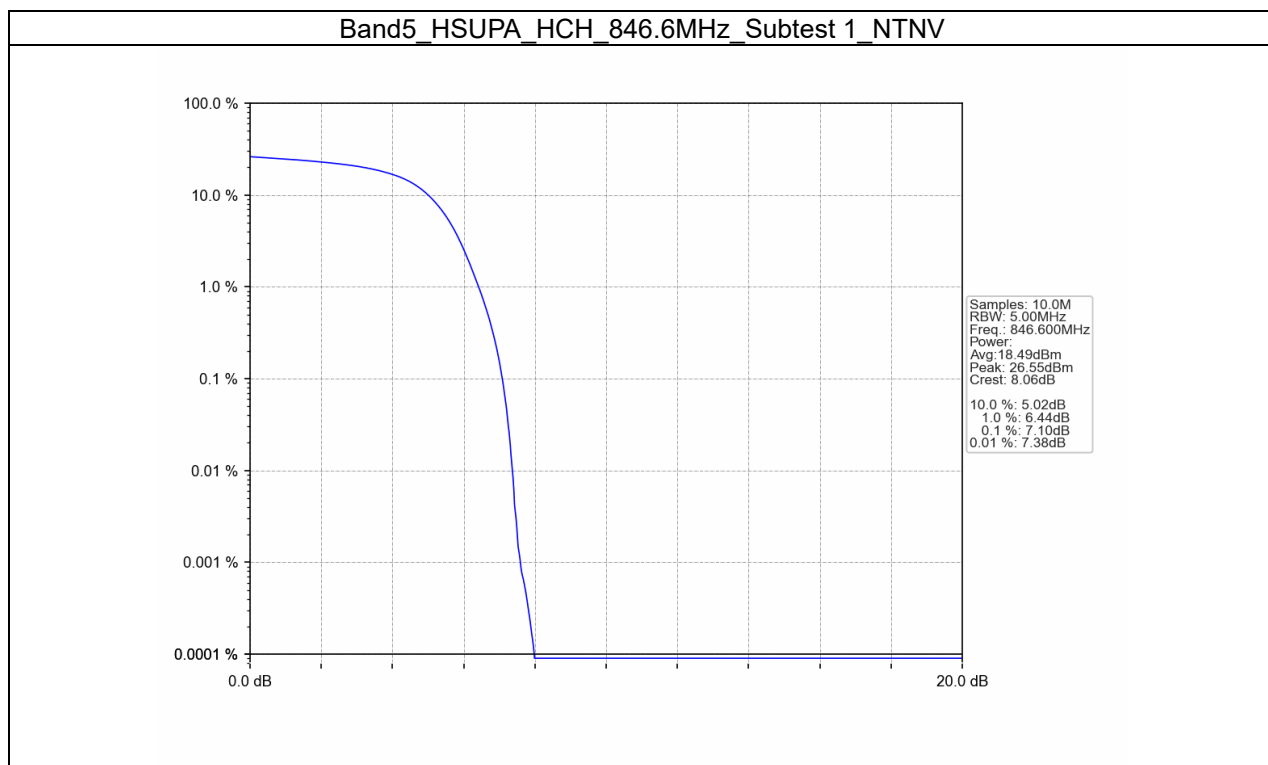


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





Test Report No.: RF260703B001





Test Report No.: RF260703B001

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.720	/	Pass
			836.6	4.705	/	Pass
			846.6	4.697	/	Pass
	HSDPA	Subtest 1	826.4	4.692	/	Pass
			836.6	4.689	/	Pass
			846.6	4.675	/	Pass
	HSUPA	Subtest 1	826.4	4.704	/	Pass
			836.6	4.701	/	Pass
			846.6	4.688	/	Pass

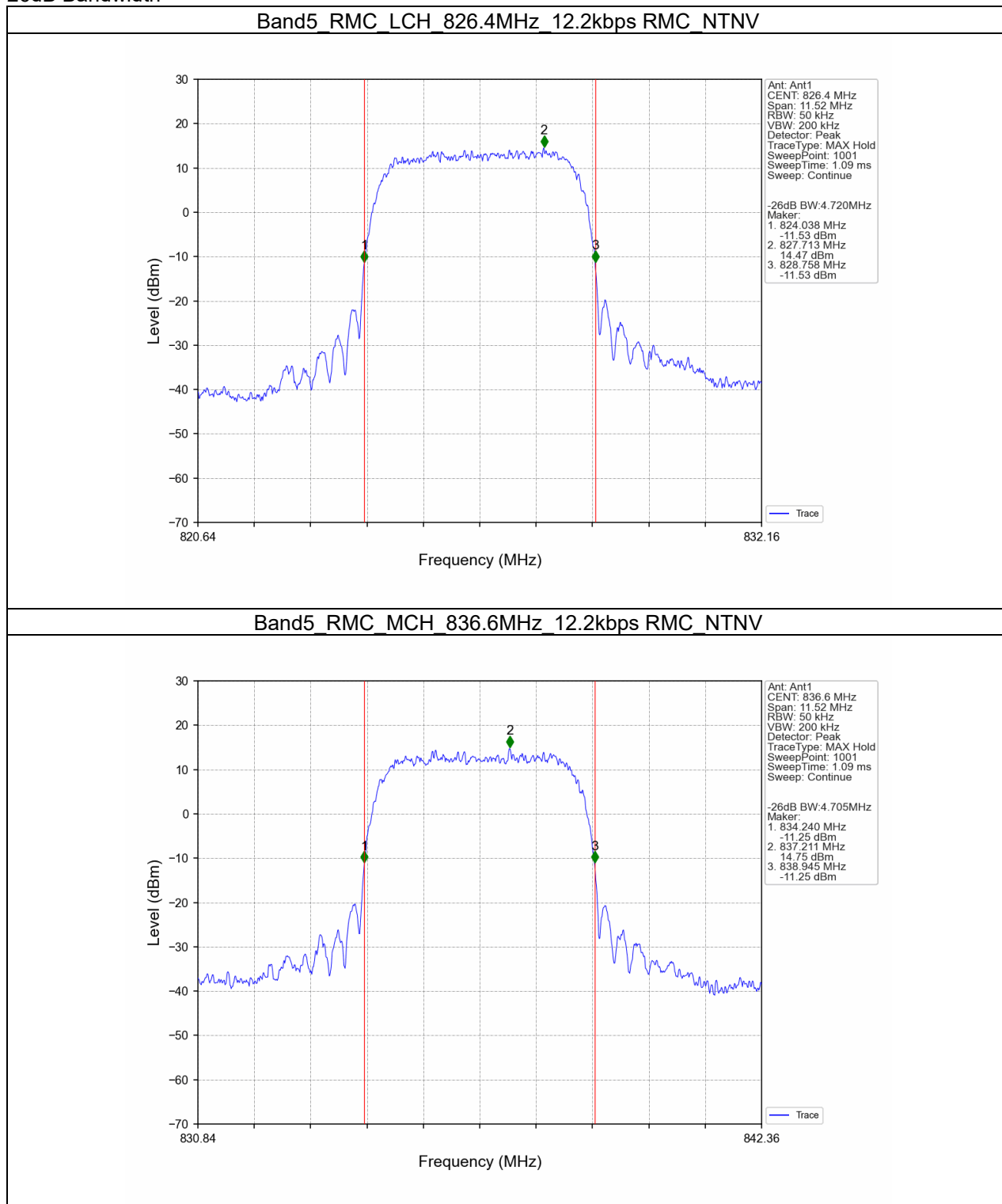
Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.146	/	Pass
			836.6	4.157	/	Pass
			846.6	4.161	/	Pass
	HSDPA	Subtest 1	826.4	4.144	/	Pass
			836.6	4.159	/	Pass
			846.6	4.162	/	Pass
	HSUPA	Subtest 1	826.4	4.138	/	Pass
			836.6	4.149	/	Pass
			846.6	4.155	/	Pass



Test Report No.: RF260703B001

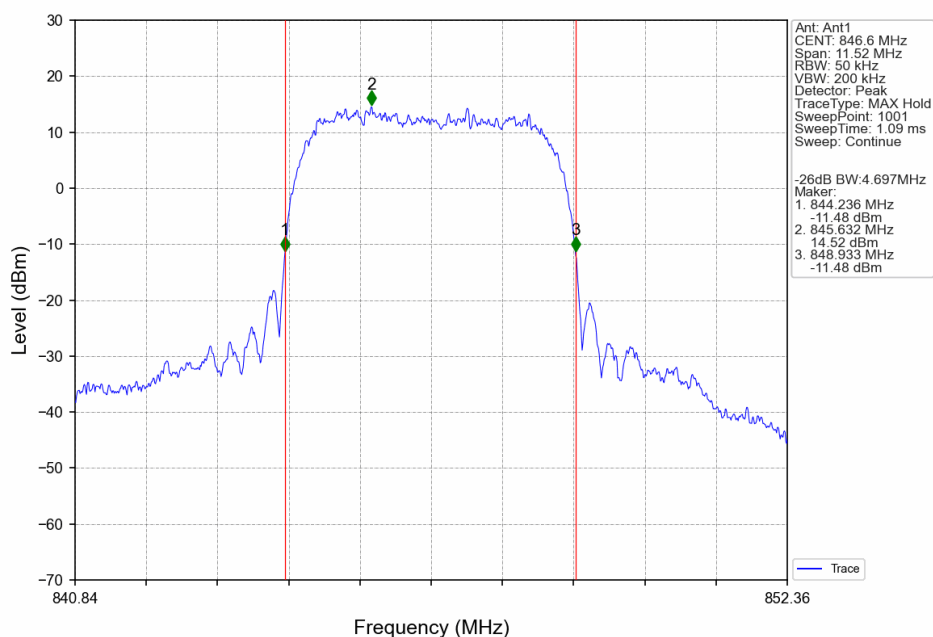
Test Graphs

26dB Bandwidth

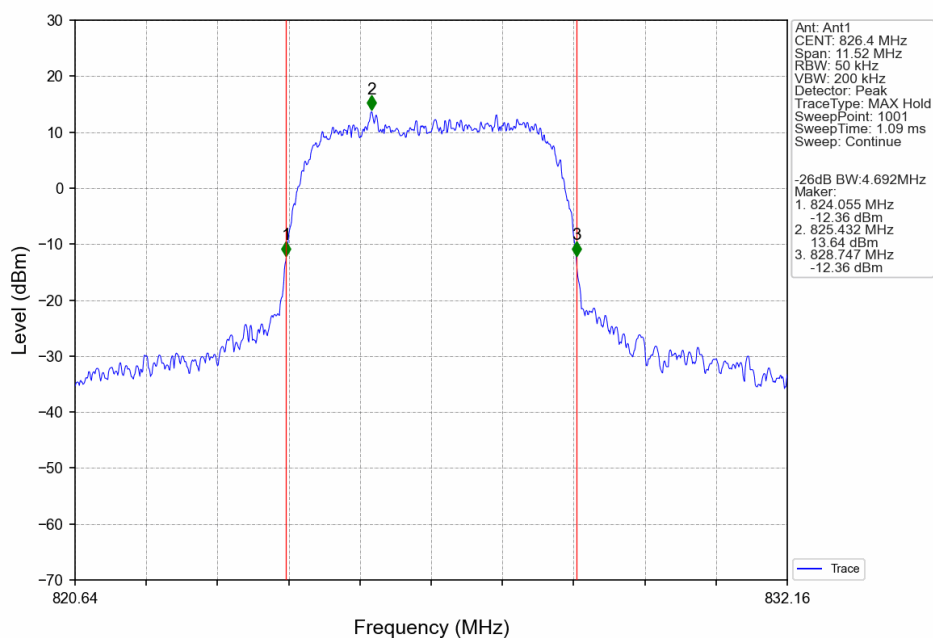


Test Report No.: RF260703B001

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

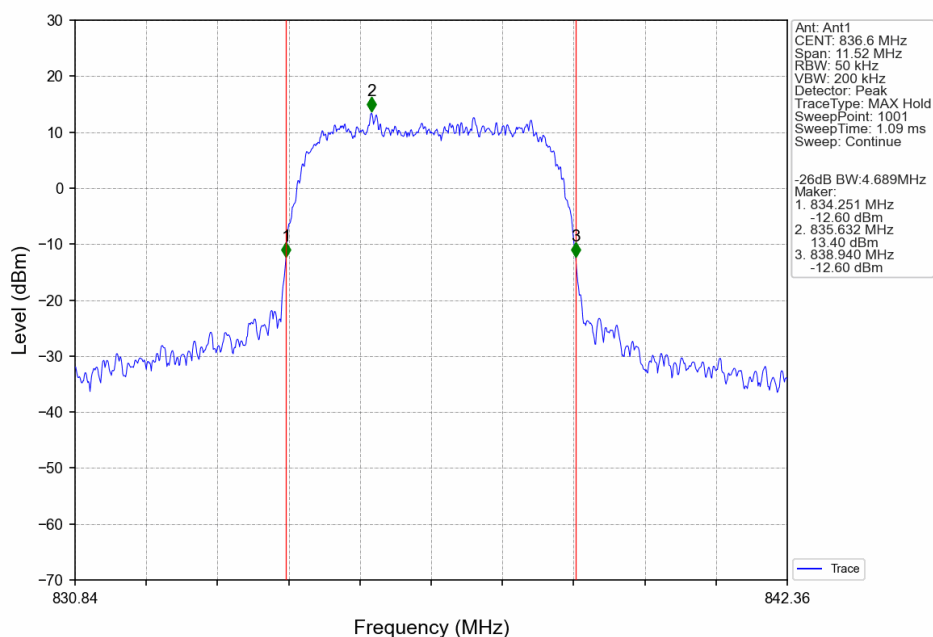


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

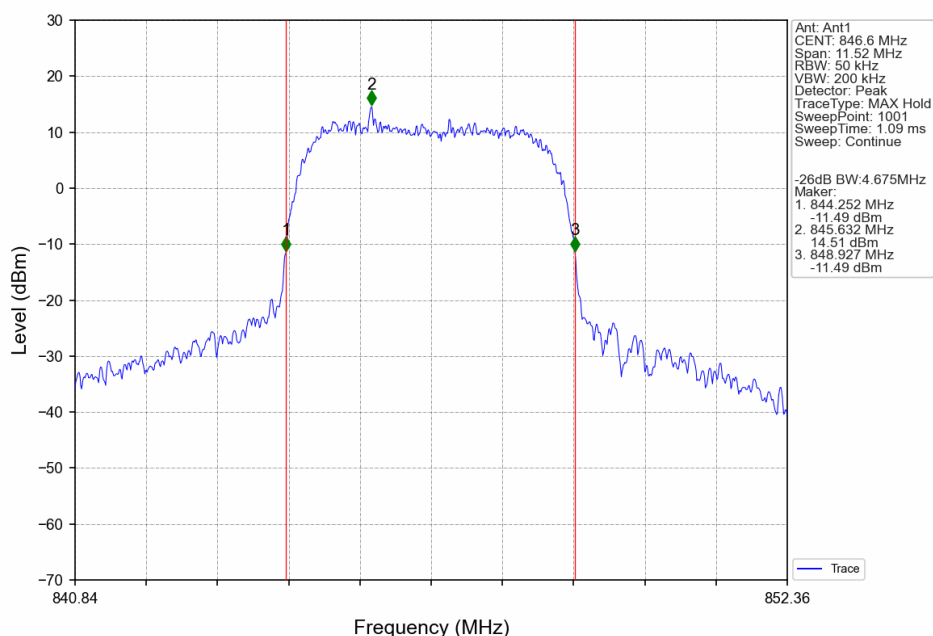


Test Report No.: RF260703B001

Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

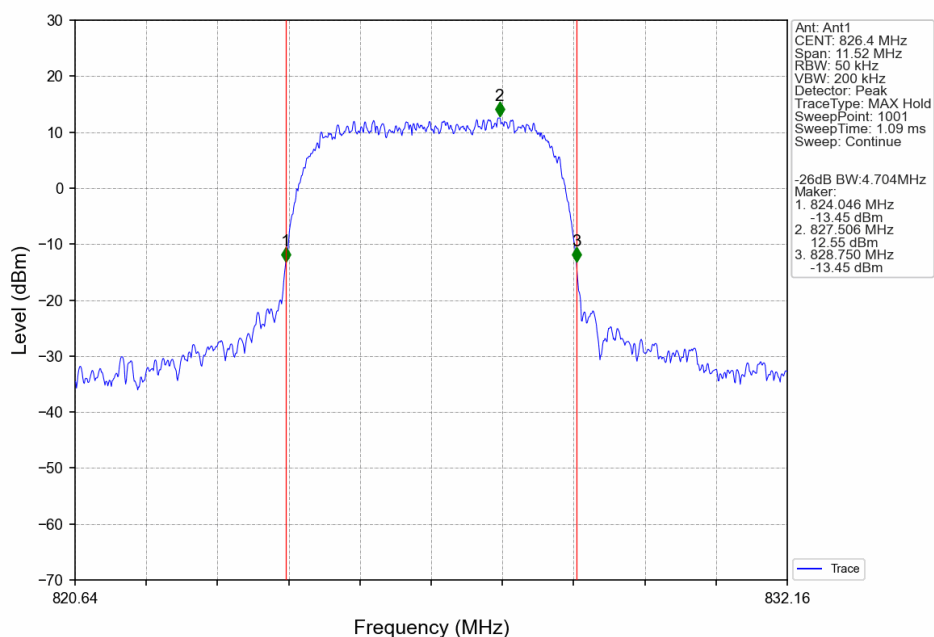


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

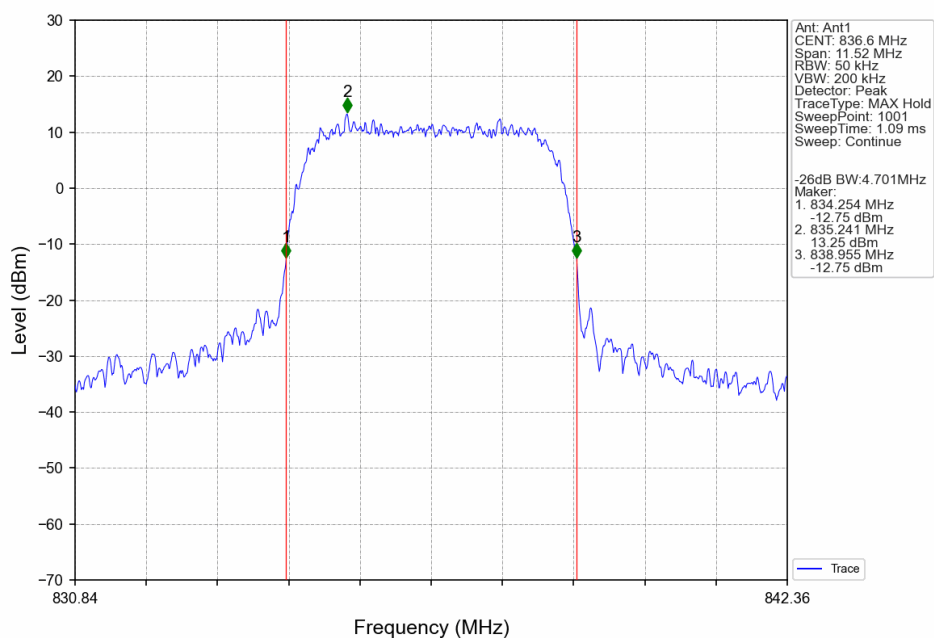


Test Report No.: RF260703B001

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

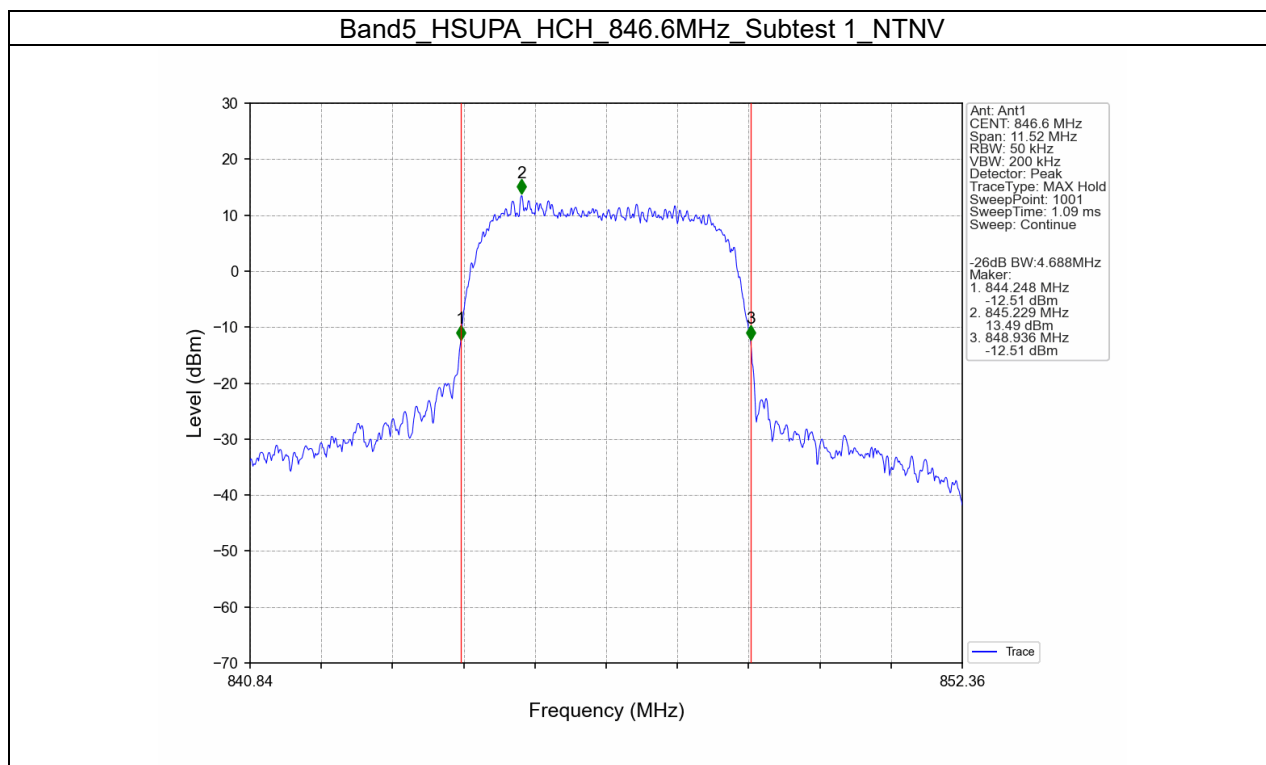


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





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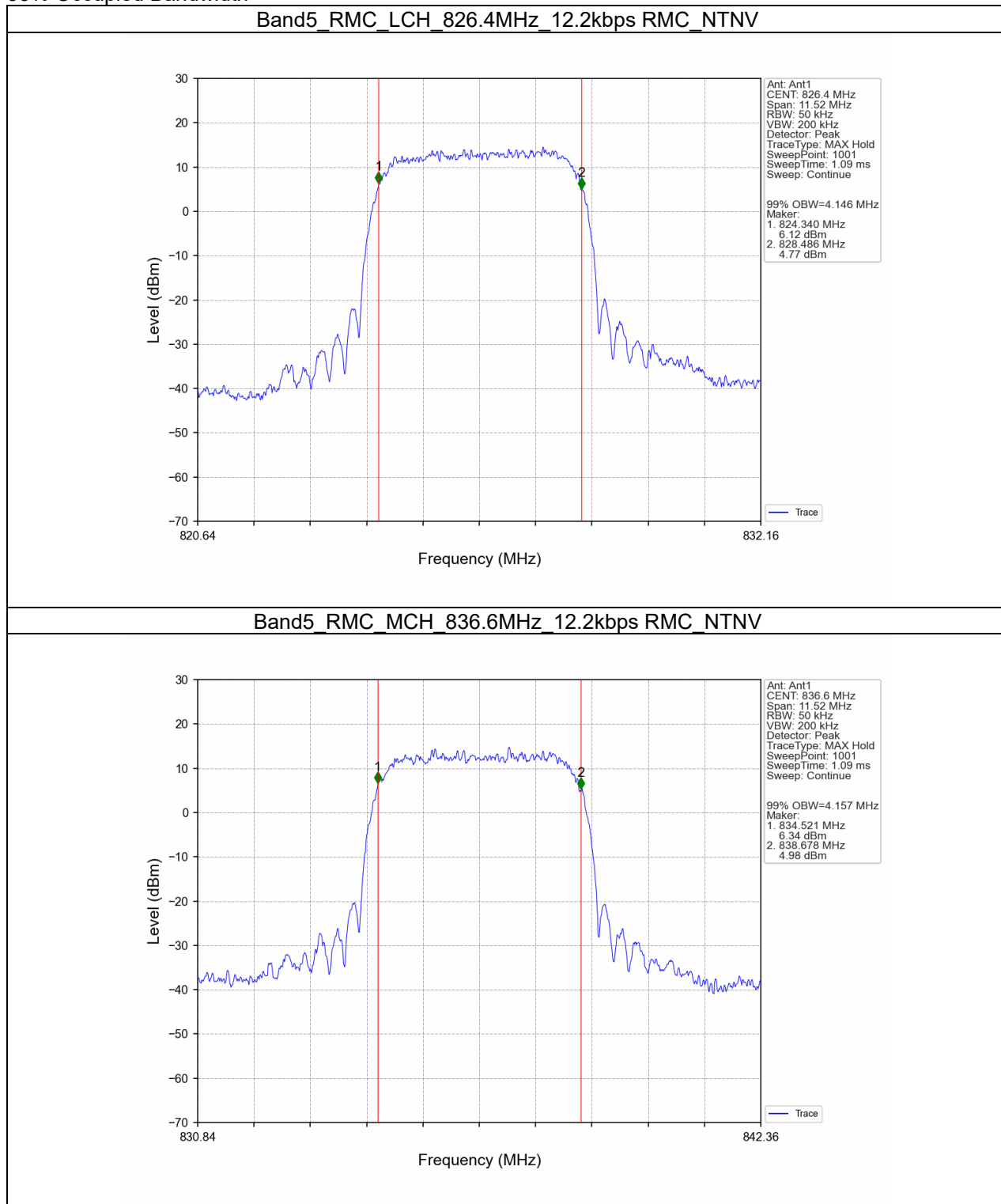
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
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Nanshan District, Shenzhen, Guangdong, P.R. CHINA

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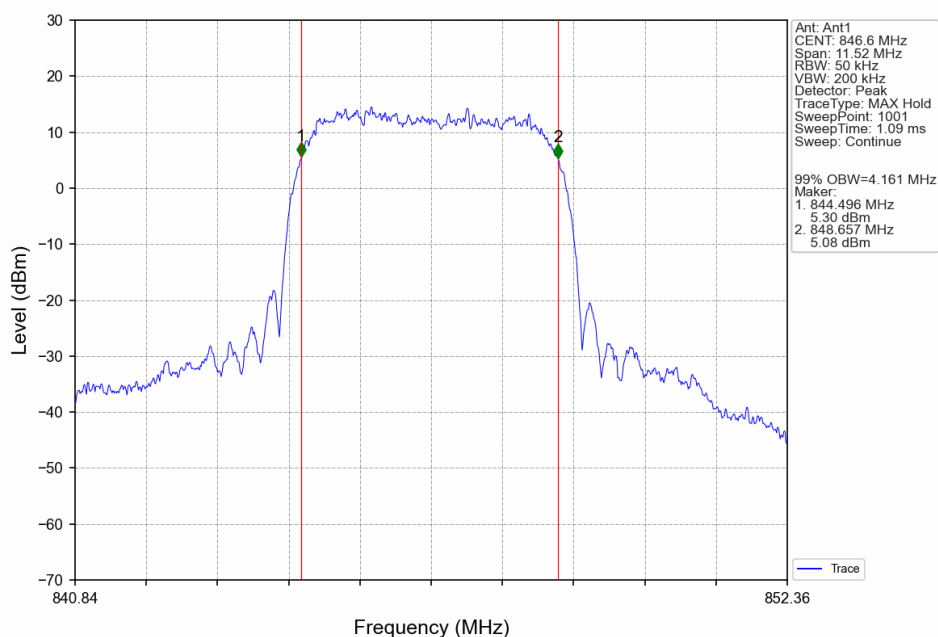
Test Report No.: RF260703B001

99% Occupied Bandwidth

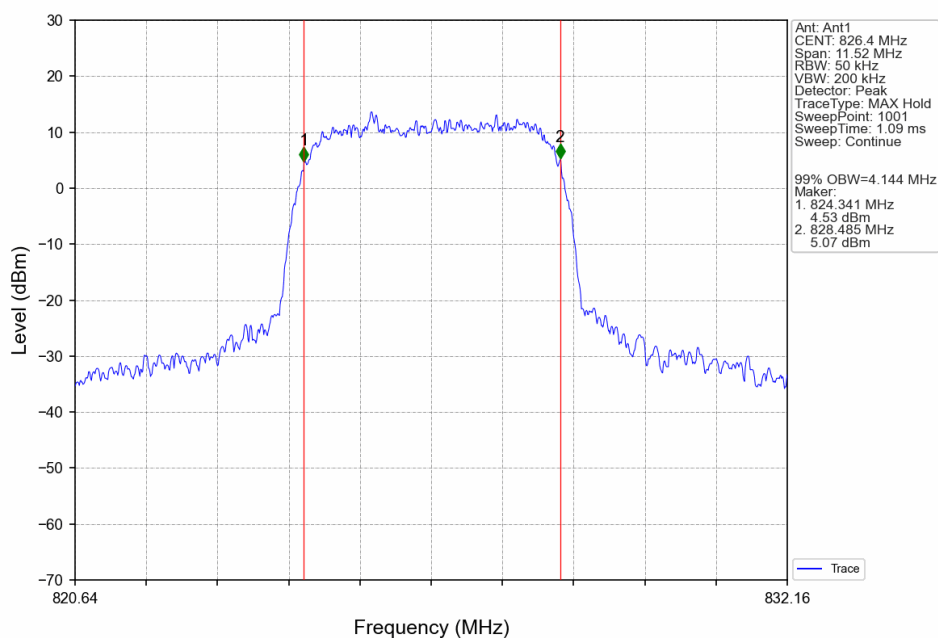


Test Report No.: RF260703B001

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

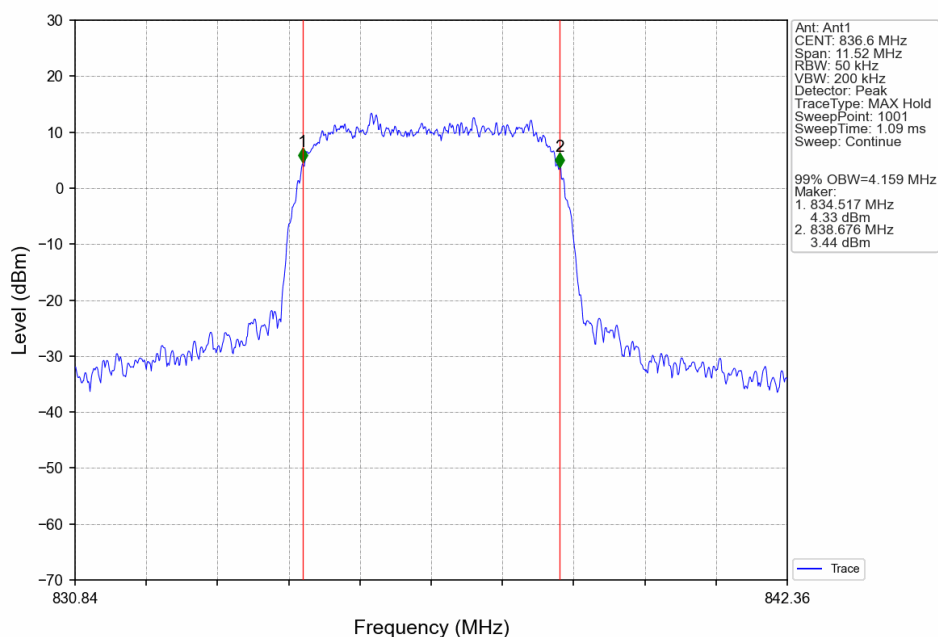


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

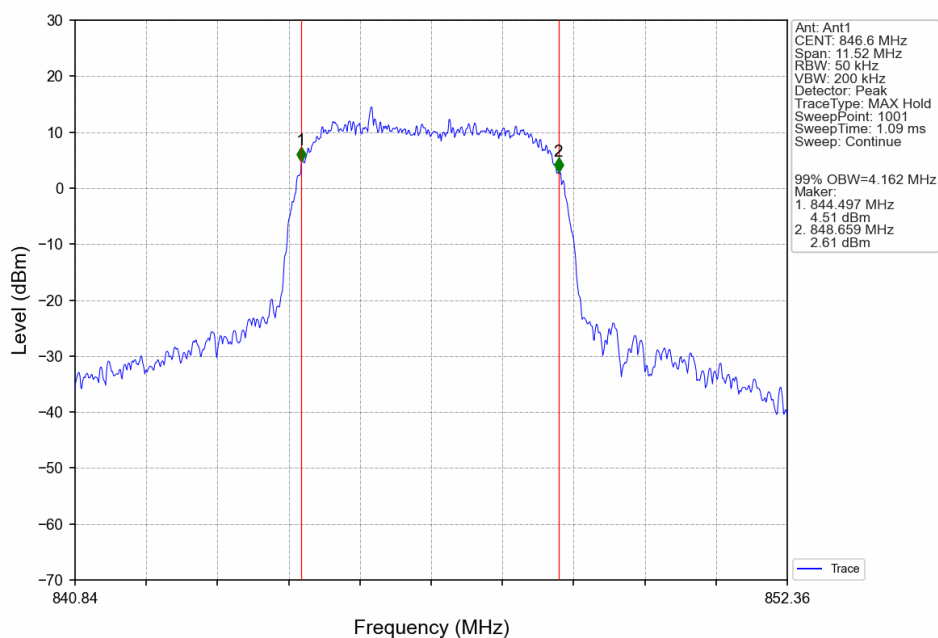


Test Report No.: RF260703B001

Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

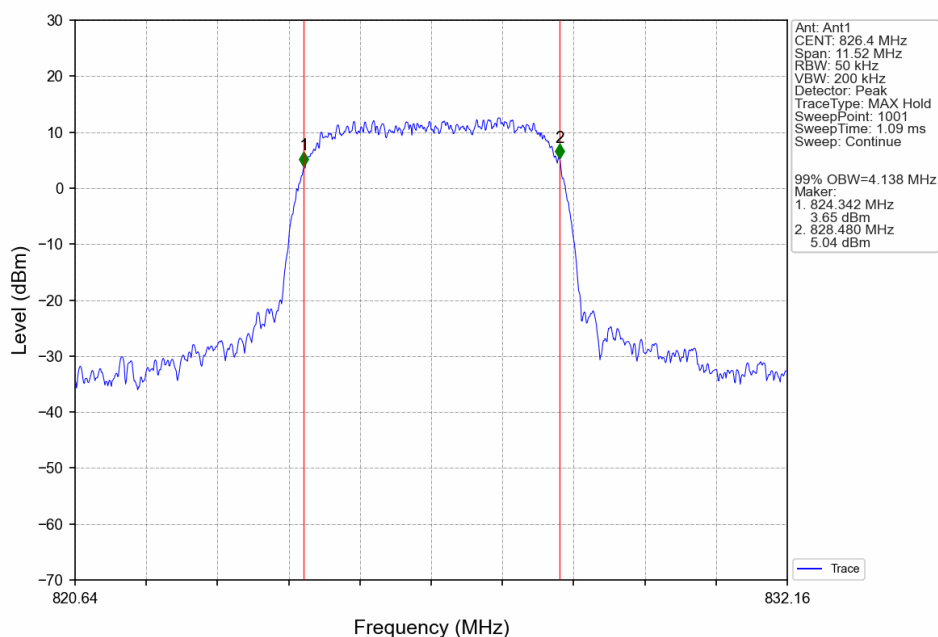


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

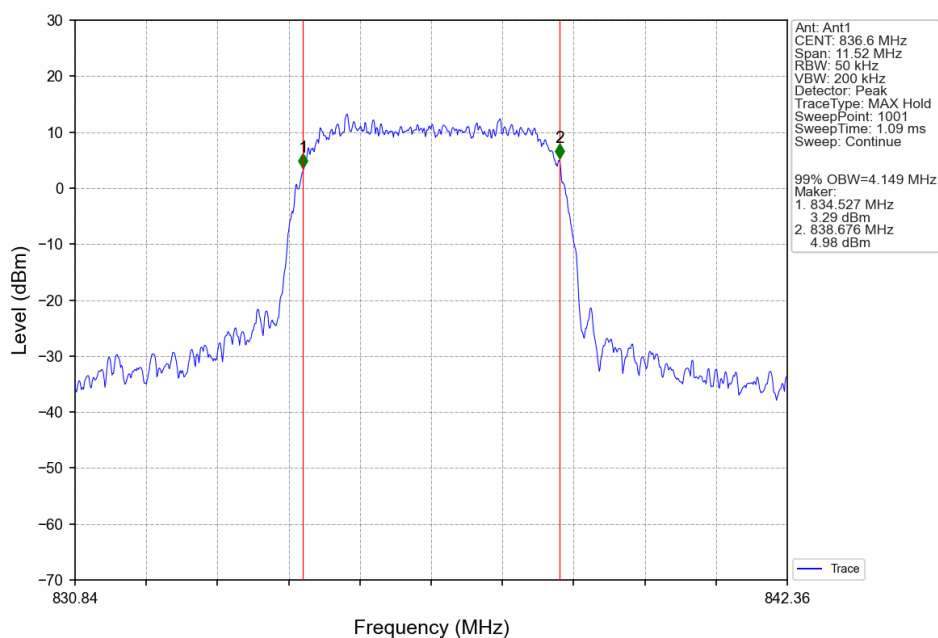


Test Report No.: RF260703B001

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

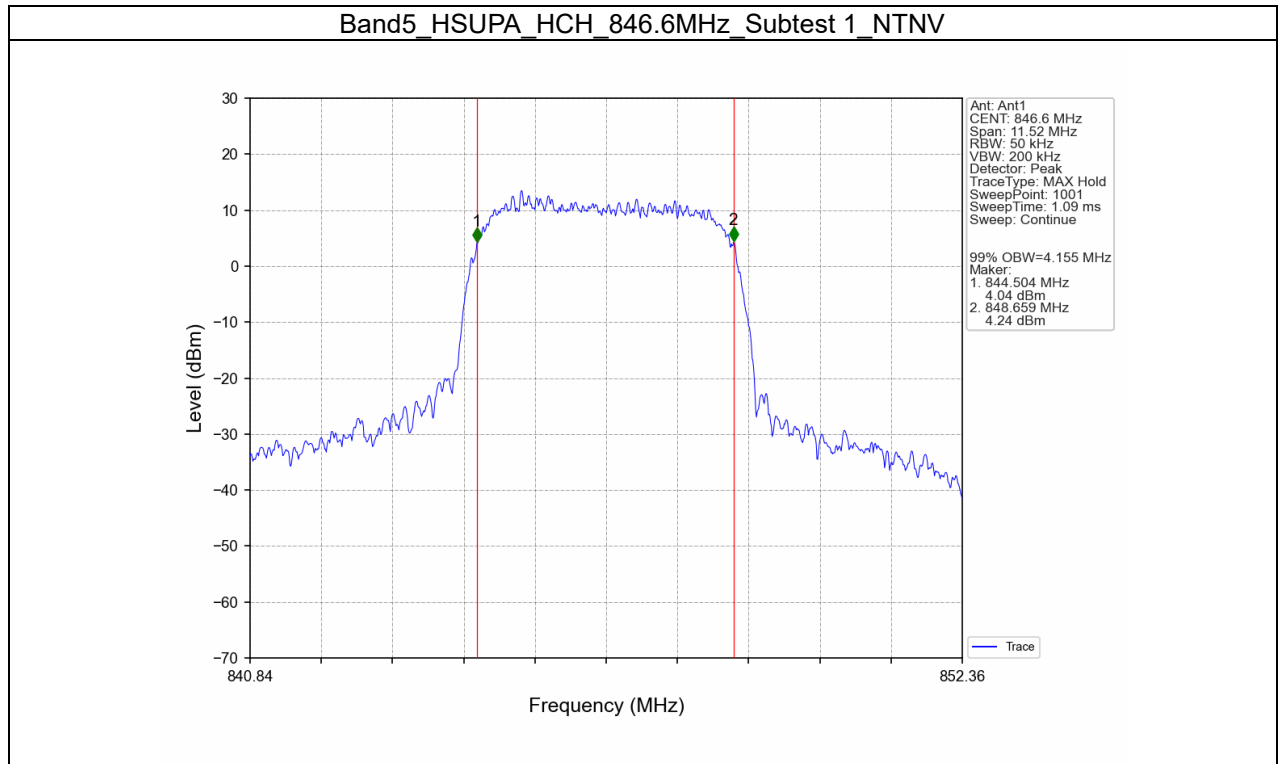


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV





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Test Report No.: RF260703B001

BAND EDGE AND SPURIOUS EMISSION

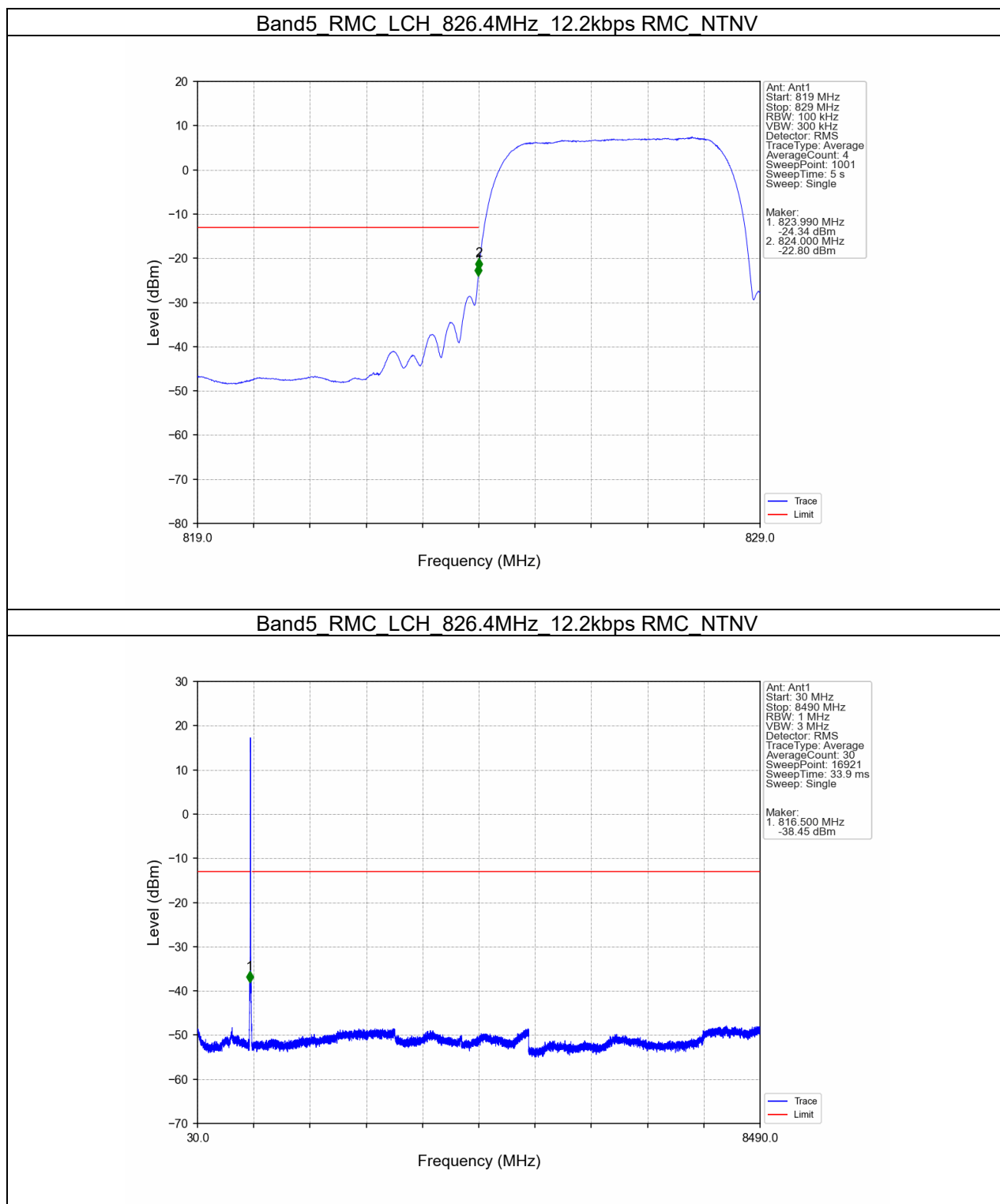
Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	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



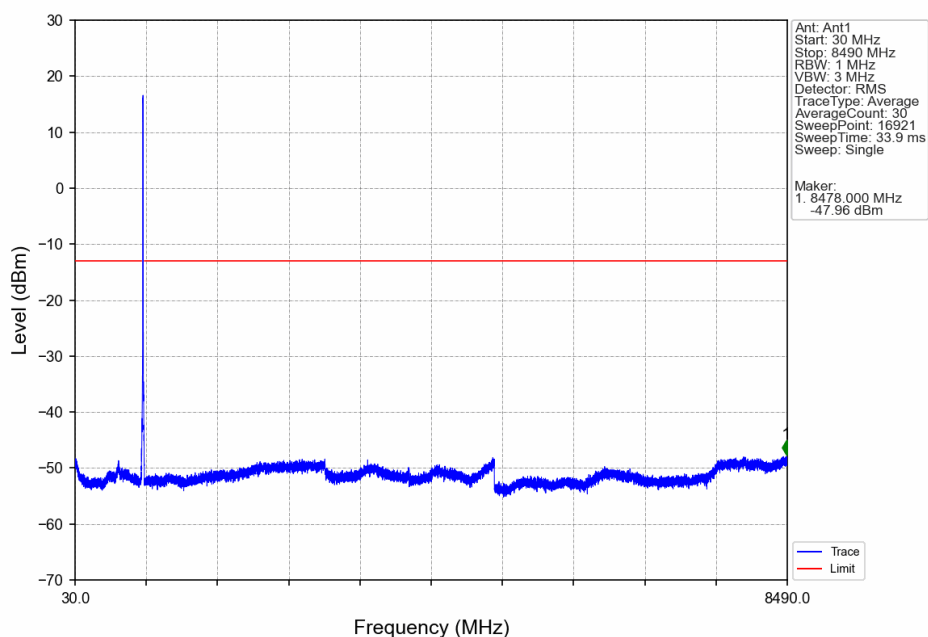
Test Report No.: RF260703B001

Test Graphs

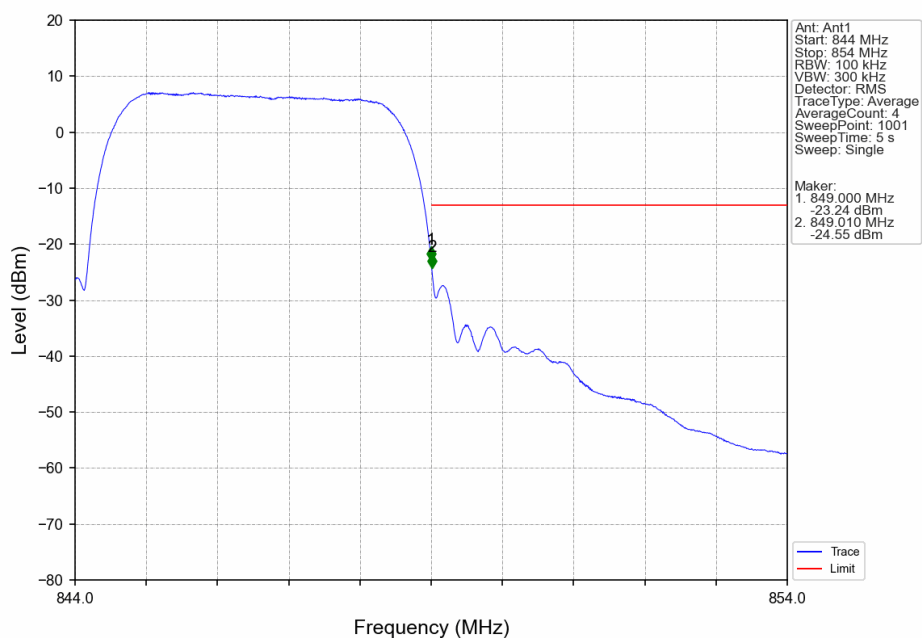


Test Report No.: RF260703B001

Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV

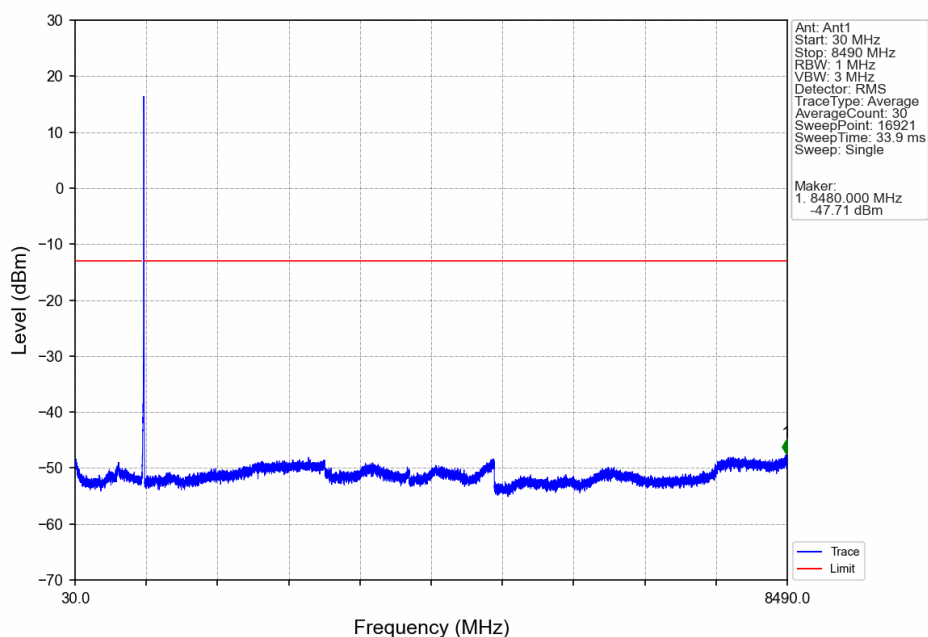


Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

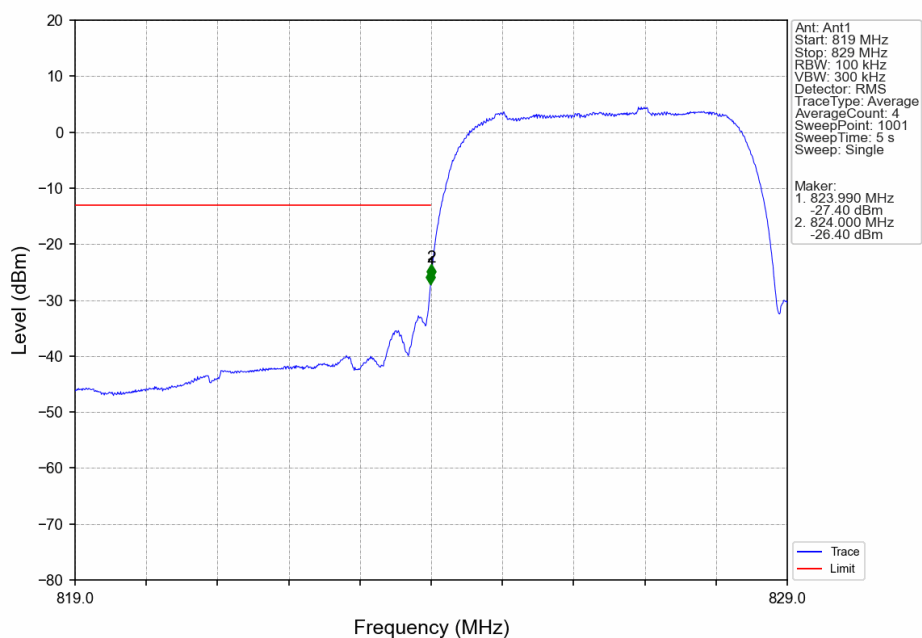


Test Report No.: RF260703B001

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

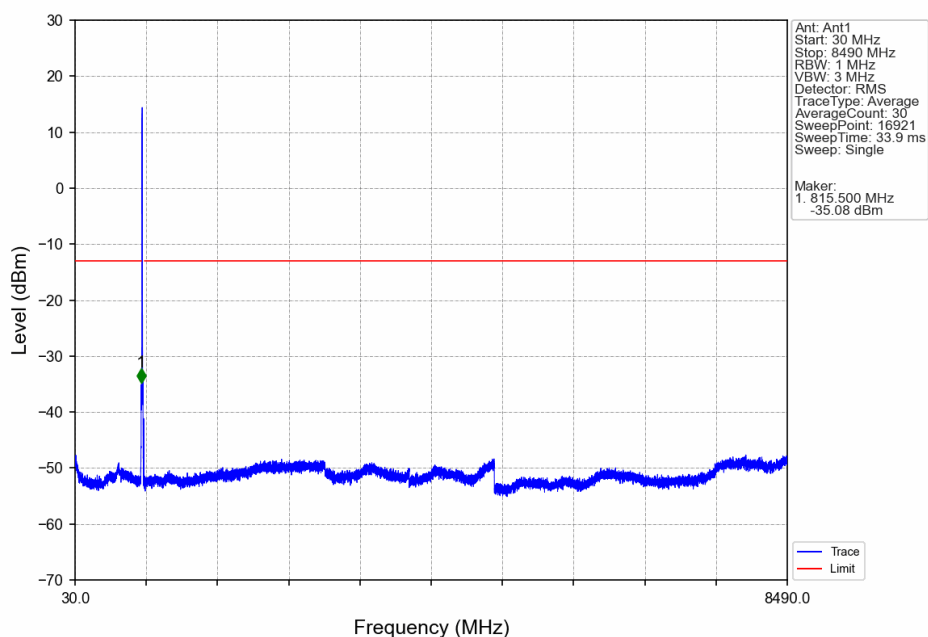


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

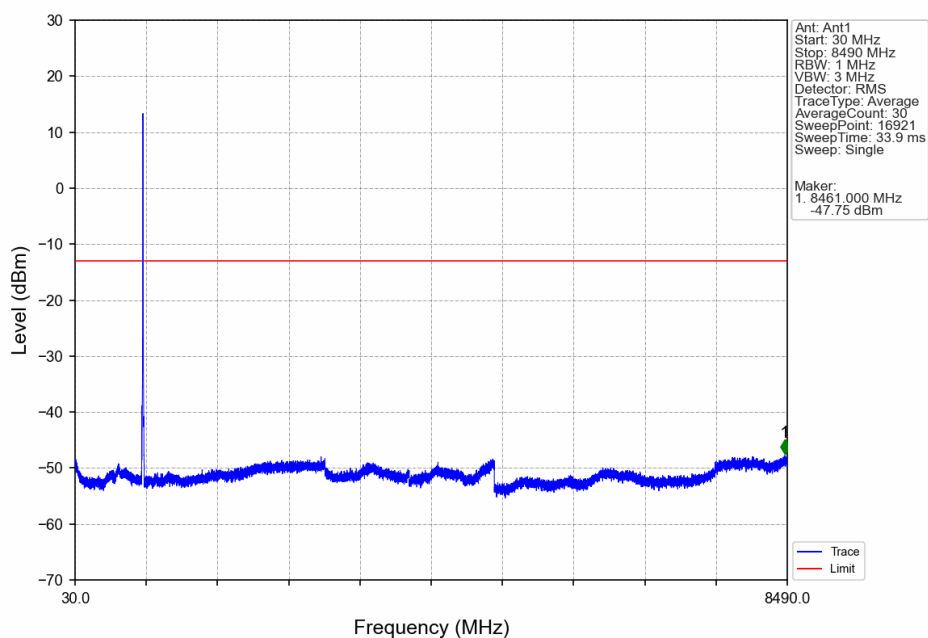


Test Report No.: RF260703B001

Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

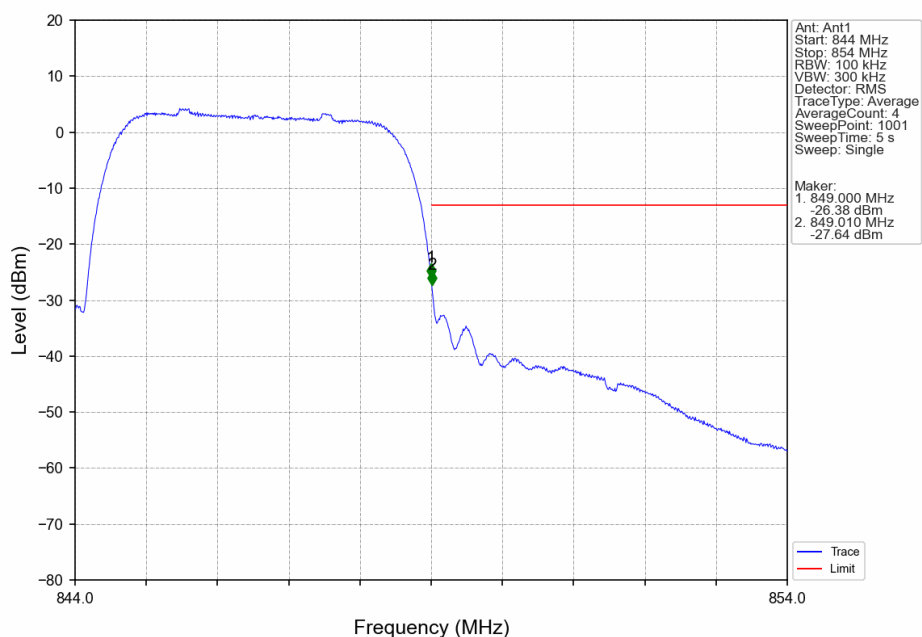


Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

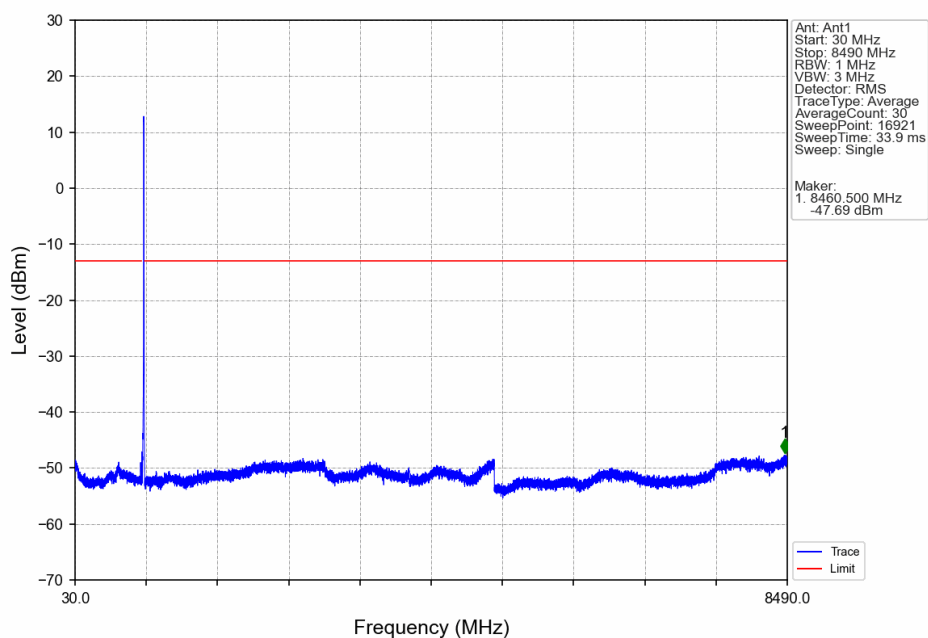


Test Report No.: RF260703B001

Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

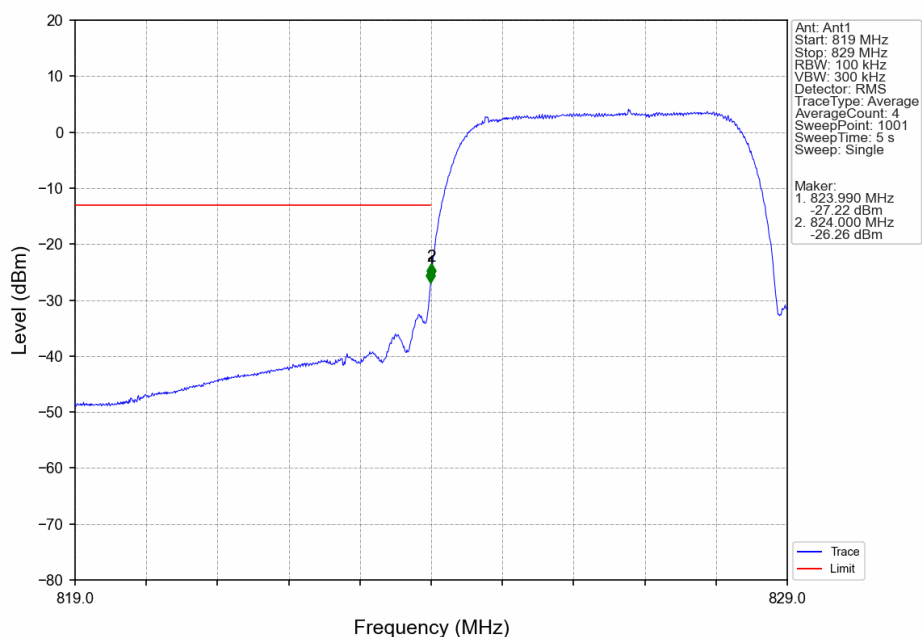


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

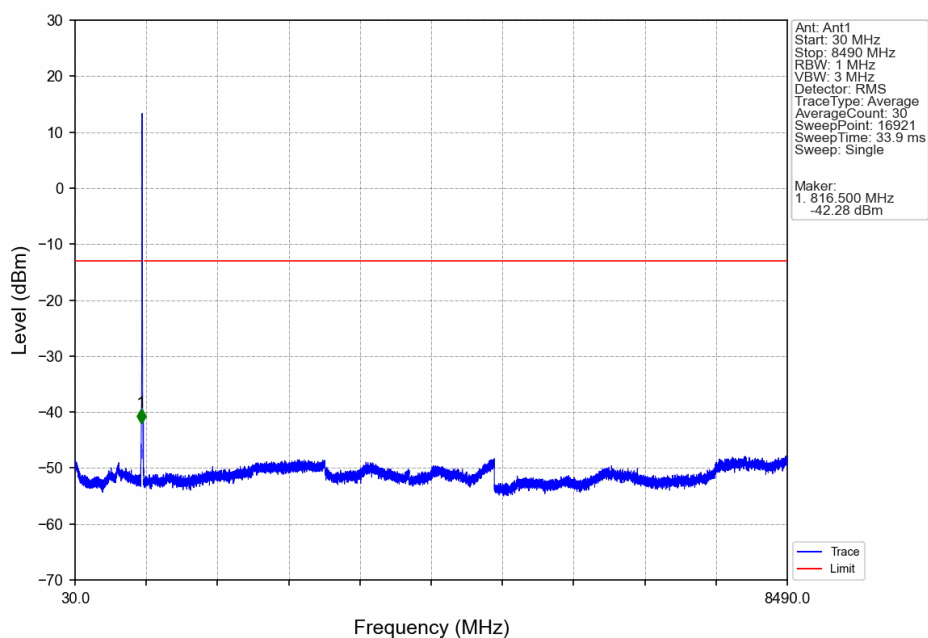


Test Report No.: RF260703B001

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

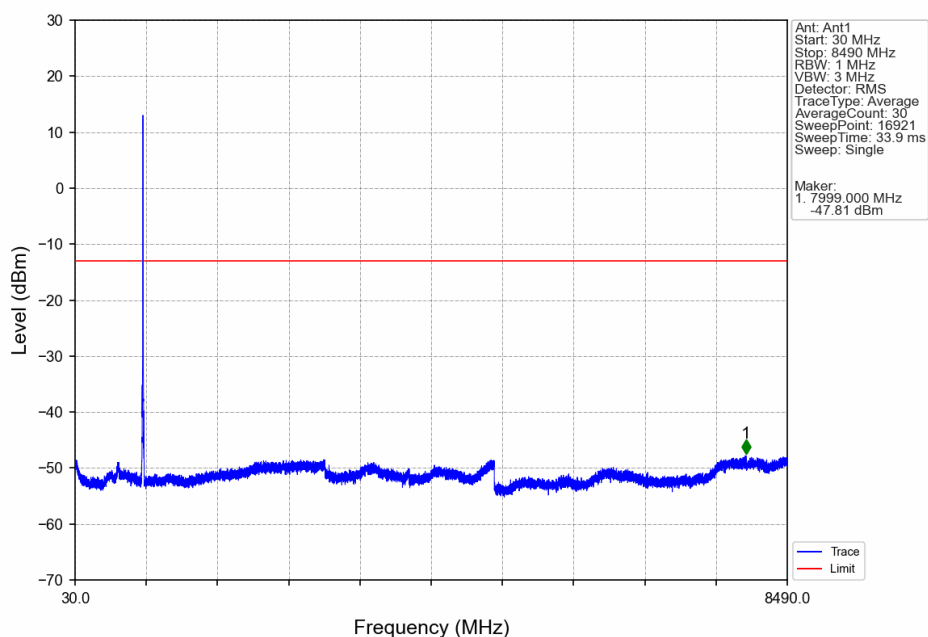


Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

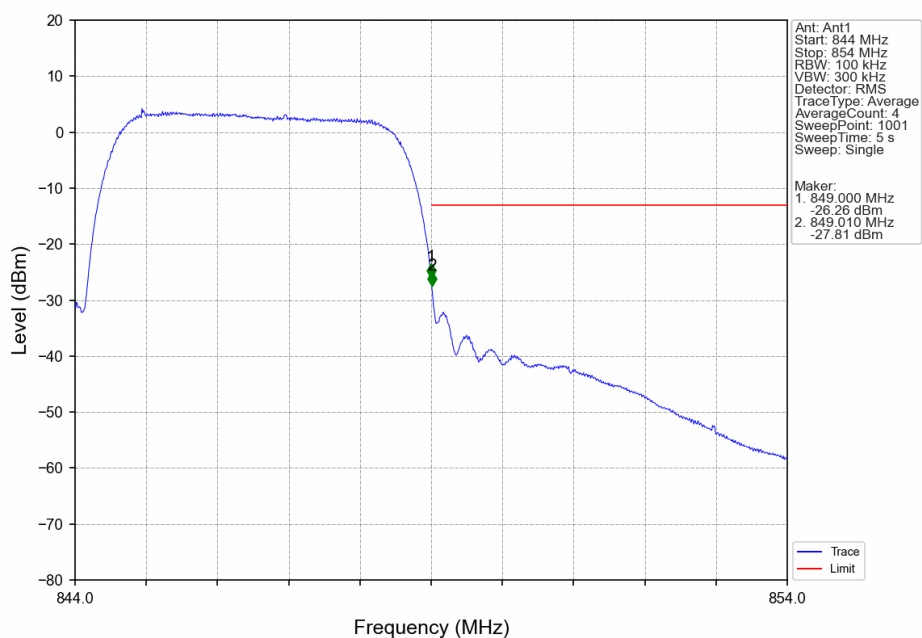


Test Report No.: RF260703B001

Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

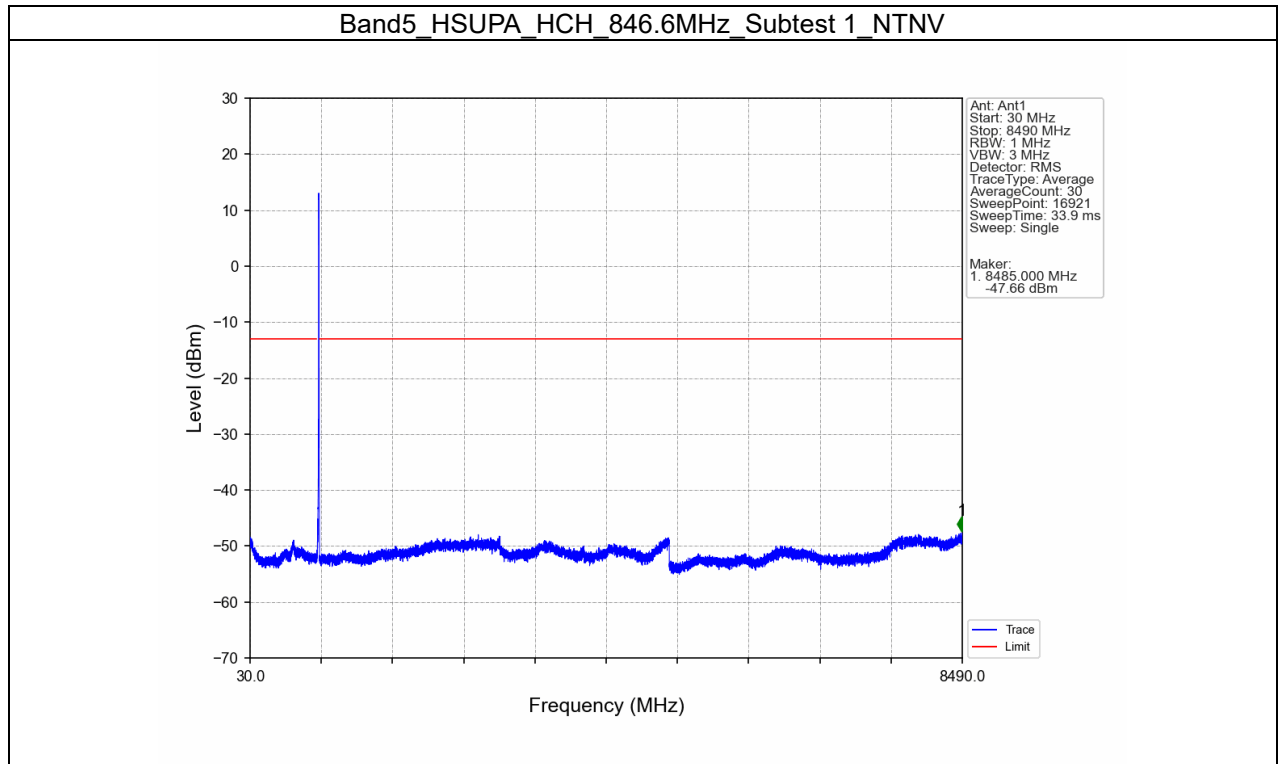


Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV





Test Report No.: RF260703B001





Test Report No.: RF260703B001

FREQUENCY STABILITY

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	3.4	0.765	0.0009	-2.5 to 2.5	Pass
			4	0.765	0.0009	-2.5 to 2.5	Pass
			4.6	0.336	0.0004	-2.5 to 2.5	Pass
		5	4	0.522	0.0006	-2.5 to 2.5	Pass
		15	4	0.730	0.0009	-2.5 to 2.5	Pass
		25	4	0.587	0.0007	-2.5 to 2.5	Pass
		35	4	0.901	0.0011	-2.5 to 2.5	Pass
	836.6	20	3.4	-0.200	-0.0002	-2.5 to 2.5	Pass
			4	-0.472	-0.0006	-2.5 to 2.5	Pass
			4.6	-0.429	-0.0005	-2.5 to 2.5	Pass
		5	4	-0.107	-0.0001	-2.5 to 2.5	Pass
		15	4	-0.300	-0.0004	-2.5 to 2.5	Pass
		25	4	-0.401	-0.0005	-2.5 to 2.5	Pass
		35	4	-0.300	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.4	-1.316	-0.0016	-2.5 to 2.5	Pass
			4	-1.438	-0.0017	-2.5 to 2.5	Pass
			4.6	-1.473	-0.0017	-2.5 to 2.5	Pass
		5	4	-1.595	-0.0019	-2.5 to 2.5	Pass
		15	4	-1.287	-0.0015	-2.5 to 2.5	Pass
		25	4	-1.523	-0.0018	-2.5 to 2.5	Pass
		35	4	-1.695	-0.0020	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.4	3.576	0.0043	-2.5 to 2.5	Pass
			4	3.483	0.0042	-2.5 to 2.5	Pass
			4.6	3.848	0.0047	-2.5 to 2.5	Pass
		5	4	3.383	0.0041	-2.5 to 2.5	Pass
		15	4	3.090	0.0037	-2.5 to 2.5	Pass
		25	4	3.326	0.0040	-2.5 to 2.5	Pass
		35	4	3.648	0.0044	-2.5 to 2.5	Pass
	836.6	20	3.4	3.061	0.0037	-2.5 to 2.5	Pass
			4	2.439	0.0029	-2.5 to 2.5	Pass
			4.6	2.460	0.0029	-2.5 to 2.5	Pass
		5	4	2.947	0.0035	-2.5 to 2.5	Pass
		15	4	2.561	0.0031	-2.5 to 2.5	Pass
		25	4	2.975	0.0036	-2.5 to 2.5	Pass
		35	4	3.140	0.0038	-2.5 to 2.5	Pass
	846.6	20	3.4	2.067	0.0024	-2.5 to 2.5	Pass
			4	2.482	0.0029	-2.5 to 2.5	Pass
			4.6	2.589	0.0031	-2.5 to 2.5	Pass
		5	4	1.953	0.0023	-2.5 to 2.5	Pass
		15	4	2.460	0.0029	-2.5 to 2.5	Pass
		25	4	2.074	0.0024	-2.5 to 2.5	Pass
		35	4	2.482	0.0029	-2.5 to 2.5	Pass

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Test Report No.: RF260703B001

HSUPA	826.4	20	3.4	-4.356	-0.0053	-2.5 to 2.5	Pass
			4	-4.148	-0.0050	-2.5 to 2.5	Pass
			4.6	-6.716	-0.0081	-2.5 to 2.5	Pass
		5	4	-4.642	-0.0056	-2.5 to 2.5	Pass
		15	4	-4.377	-0.0053	-2.5 to 2.5	Pass
		25	4	-4.478	-0.0054	-2.5 to 2.5	Pass
		35	4	-5.765	-0.0070	-2.5 to 2.5	Pass
	836.6	20	3.4	-8.790	-0.0105	-2.5 to 2.5	Pass
			4	-9.992	-0.0119	-2.5 to 2.5	Pass
			4.6	-5.436	-0.0065	-2.5 to 2.5	Pass
		5	4	-8.433	-0.0101	-2.5 to 2.5	Pass
		15	4	-9.012	-0.0108	-2.5 to 2.5	Pass
		25	4	-13.082	-0.0156	-2.5 to 2.5	Pass
		35	4	-5.629	-0.0067	-2.5 to 2.5	Pass
	846.6	20	3.4	-7.675	-0.0091	-2.5 to 2.5	Pass
			4	-9.706	-0.0115	-2.5 to 2.5	Pass
			4.6	-9.334	-0.0110	-2.5 to 2.5	Pass
		5	4	-7.782	-0.0092	-2.5 to 2.5	Pass
		15	4	-9.191	-0.0109	-2.5 to 2.5	Pass
		25	4	-5.622	-0.0066	-2.5 to 2.5	Pass
		35	4	-13.261	-0.0157	-2.5 to 2.5	Pass



Test Report No.: RF260703B001

LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.26	≤ 13	Pass
	836.5	6	0	5.42	≤ 13	Pass
	848.3	6	0	5.42	≤ 13	Pass
16QAM	824.7	6	0	6.16	≤ 13	Pass
	836.5	6	0	6.38	≤ 13	Pass
	848.3	6	0	6.36	≤ 13	Pass
64QAM	824.7	6	0	6.18	≤ 13	Pass
	836.5	6	0	6.38	≤ 13	Pass
	848.3	6	0	6.36	≤ 13	Pass

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.42	≤ 13	Pass
	836.5	15	0	5.58	≤ 13	Pass
	847.5	15	0	5.60	≤ 13	Pass
16QAM	825.5	15	0	6.36	≤ 13	Pass
	836.5	15	0	6.52	≤ 13	Pass
	847.5	15	0	6.52	≤ 13	Pass
64QAM	825.5	15	0	6.34	≤ 13	Pass
	836.5	15	0	6.50	≤ 13	Pass
	847.5	15	0	6.52	≤ 13	Pass

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.58	≤ 13	Pass
	836.5	25	0	5.74	≤ 13	Pass
	846.5	25	0	5.72	≤ 13	Pass
16QAM	826.5	25	0	6.38	≤ 13	Pass
	836.5	25	0	6.52	≤ 13	Pass
	846.5	25	0	6.52	≤ 13	Pass
64QAM	826.5	25	0	6.38	≤ 13	Pass
	836.5	25	0	6.52	≤ 13	Pass
	846.5	25	0	6.52	≤ 13	Pass

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Test Report No.: RF260703B001

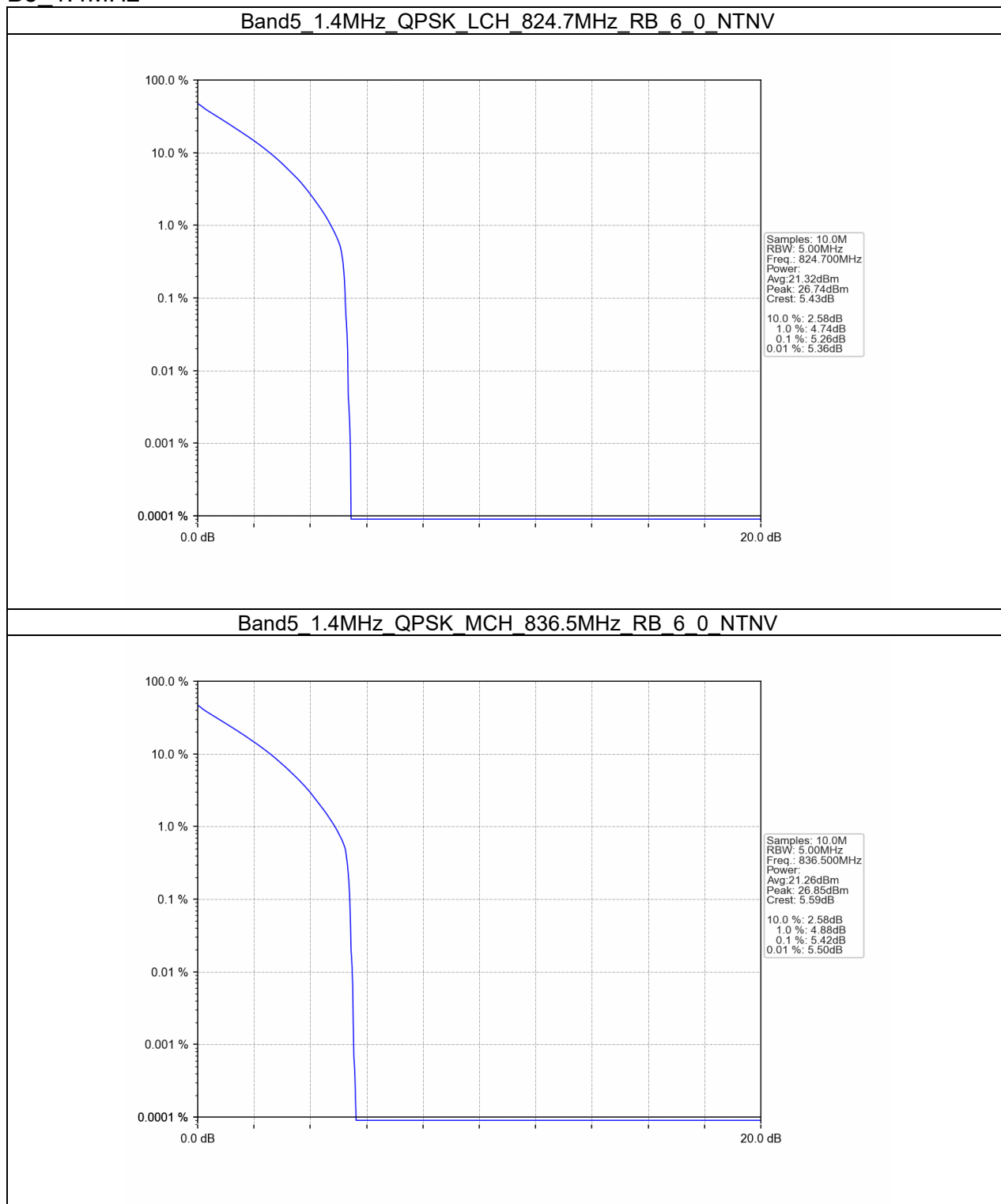
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.60	≤ 13	Pass
	836.5	50	0	5.78	≤ 13	Pass
	844	50	0	5.56	≤ 13	Pass
16QAM	829	50	0	6.30	≤ 13	Pass
	836.5	50	0	6.50	≤ 13	Pass
	844	50	0	6.36	≤ 13	Pass
64QAM	829	50	0	6.32	≤ 13	Pass
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	844	50	0	6.34	≤ 13	Pass



Test Report No.: RF260703B001

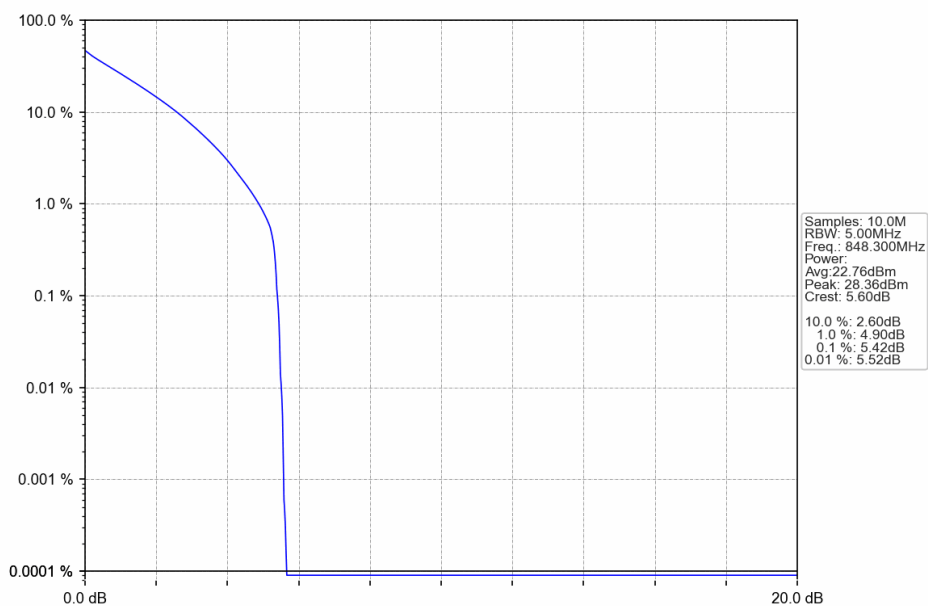
Test Graphs

B5_1.4MHz

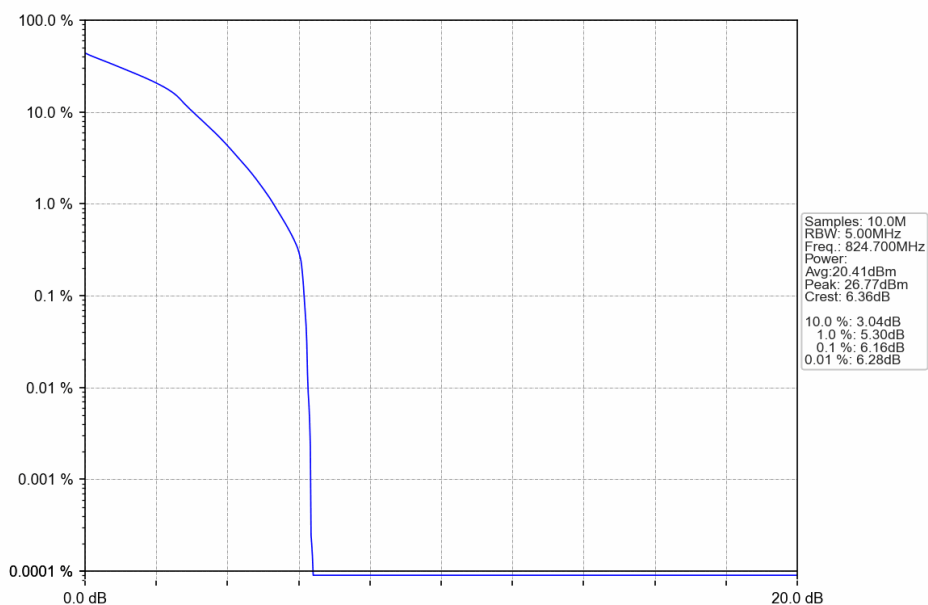


Test Report No.: RF260703B001

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

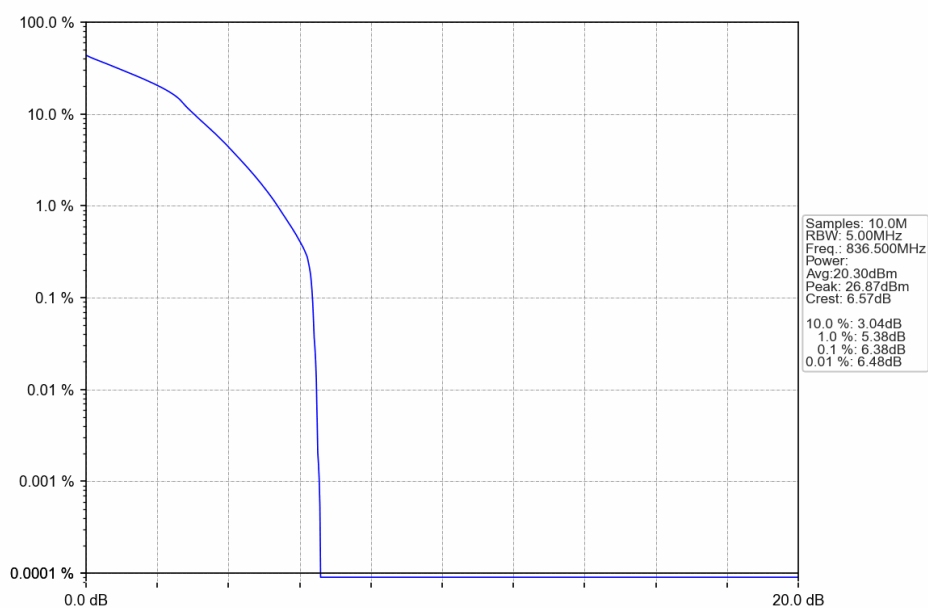


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

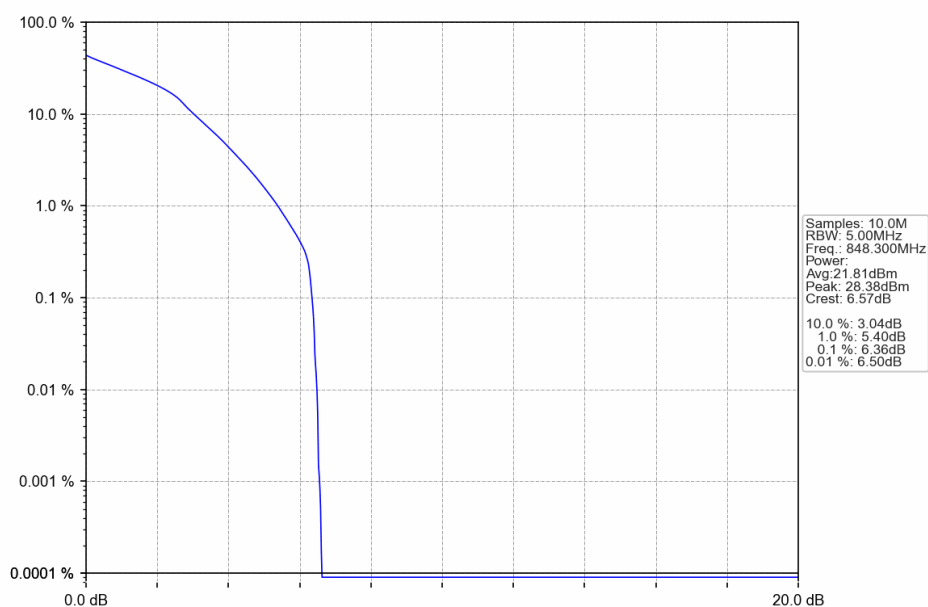


Test Report No.: RF260703B001

Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

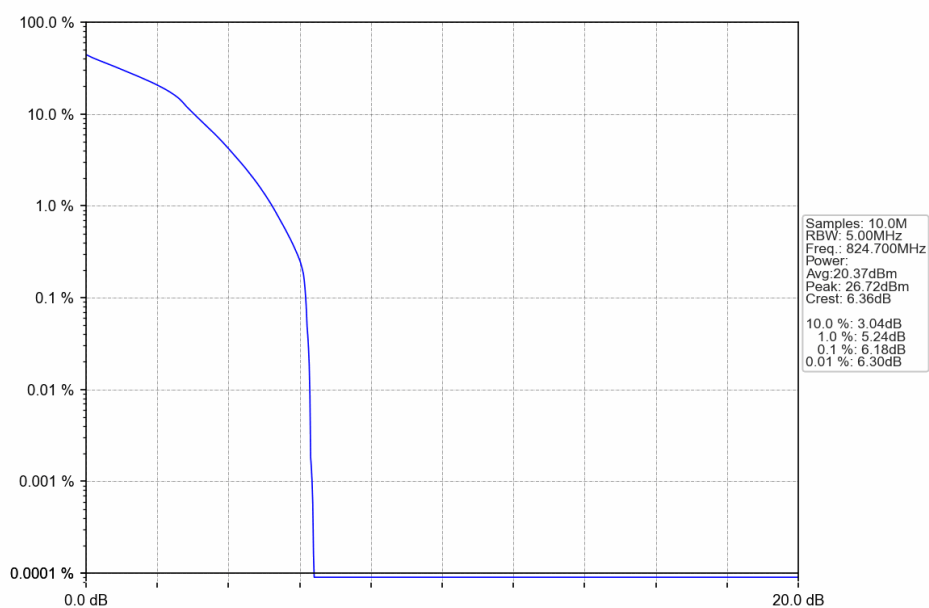


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

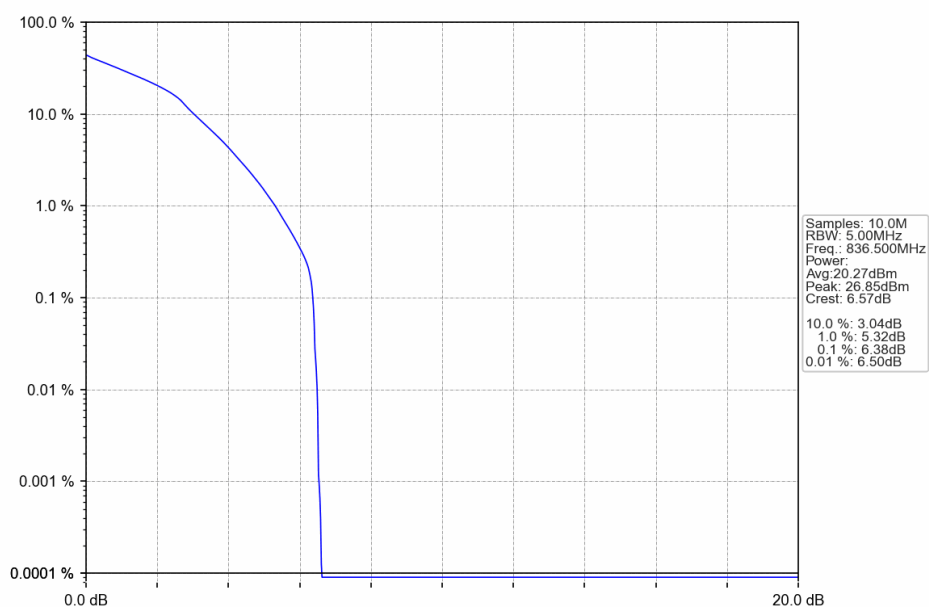


Test Report No.: RF260703B001

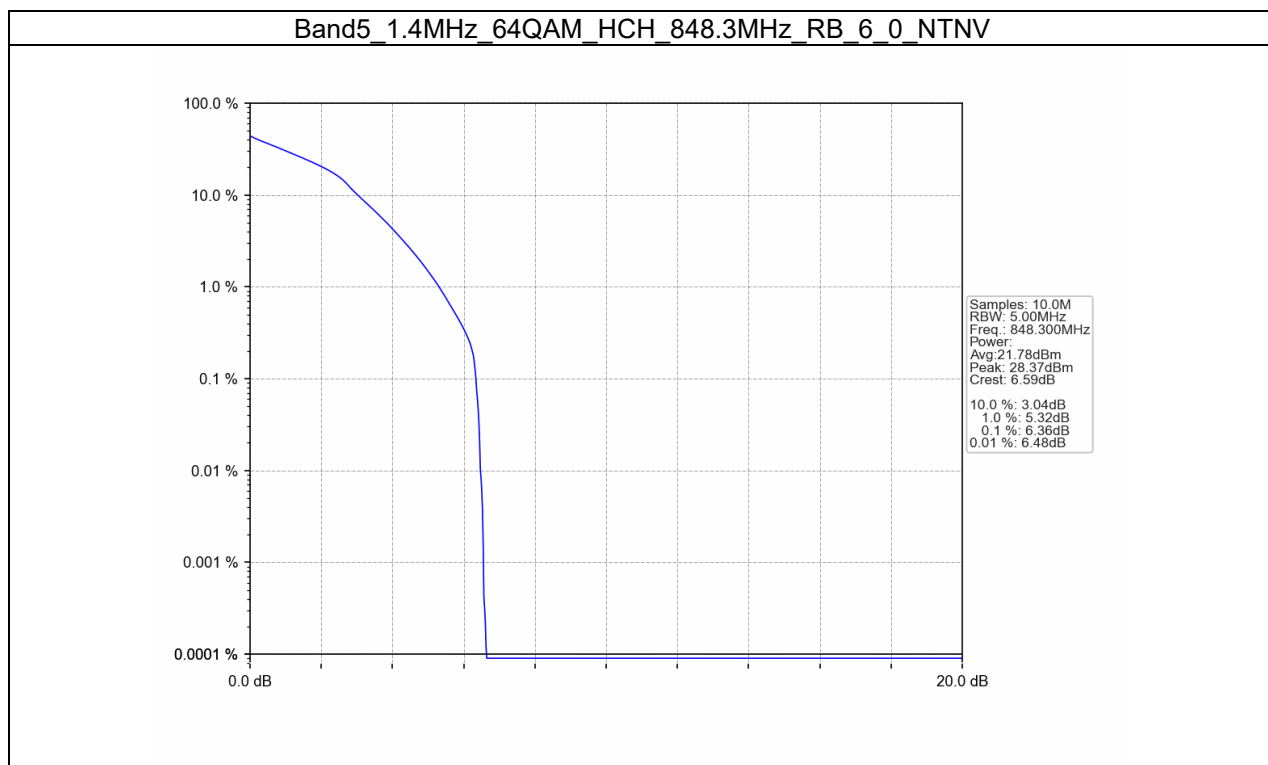
Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



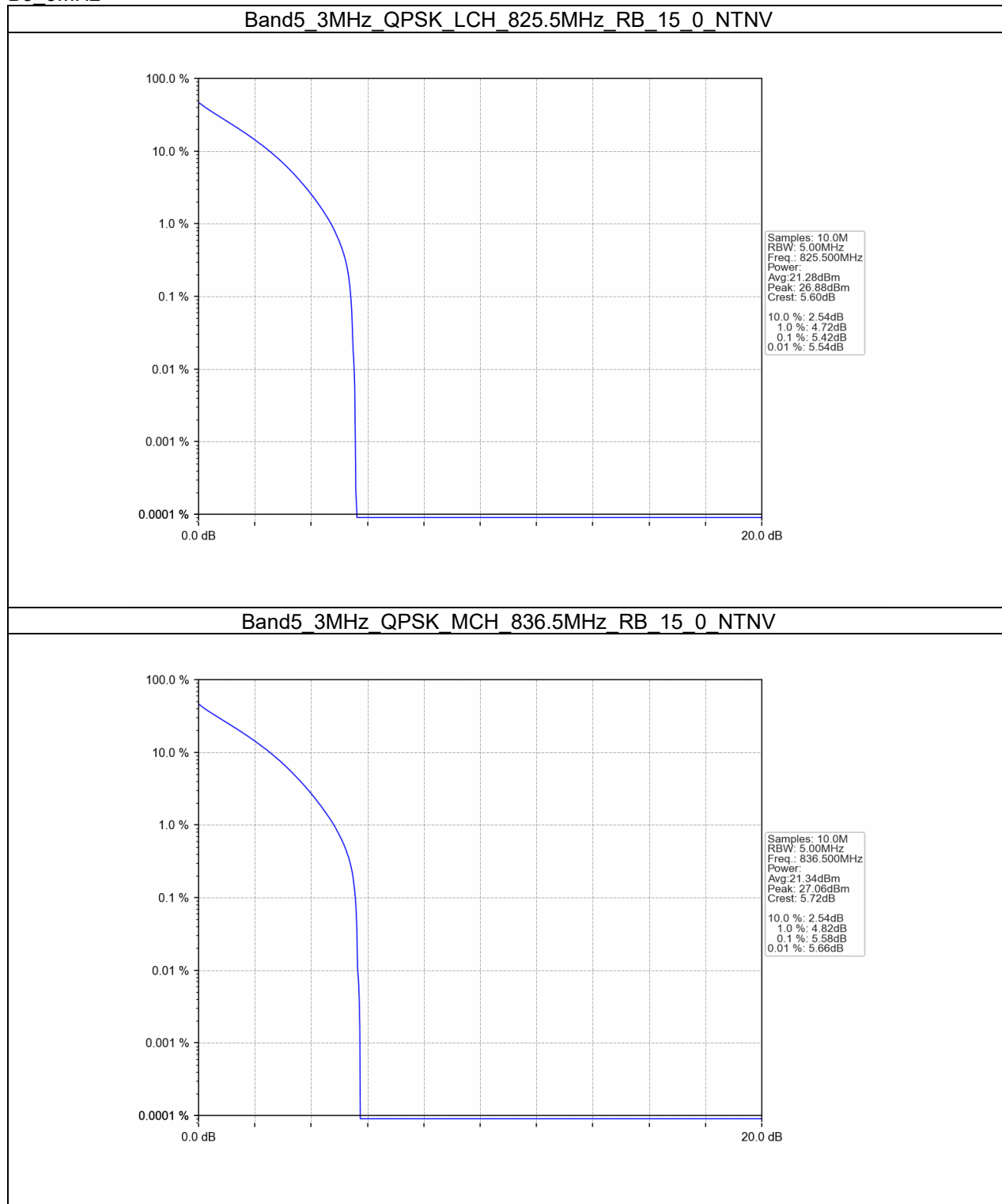
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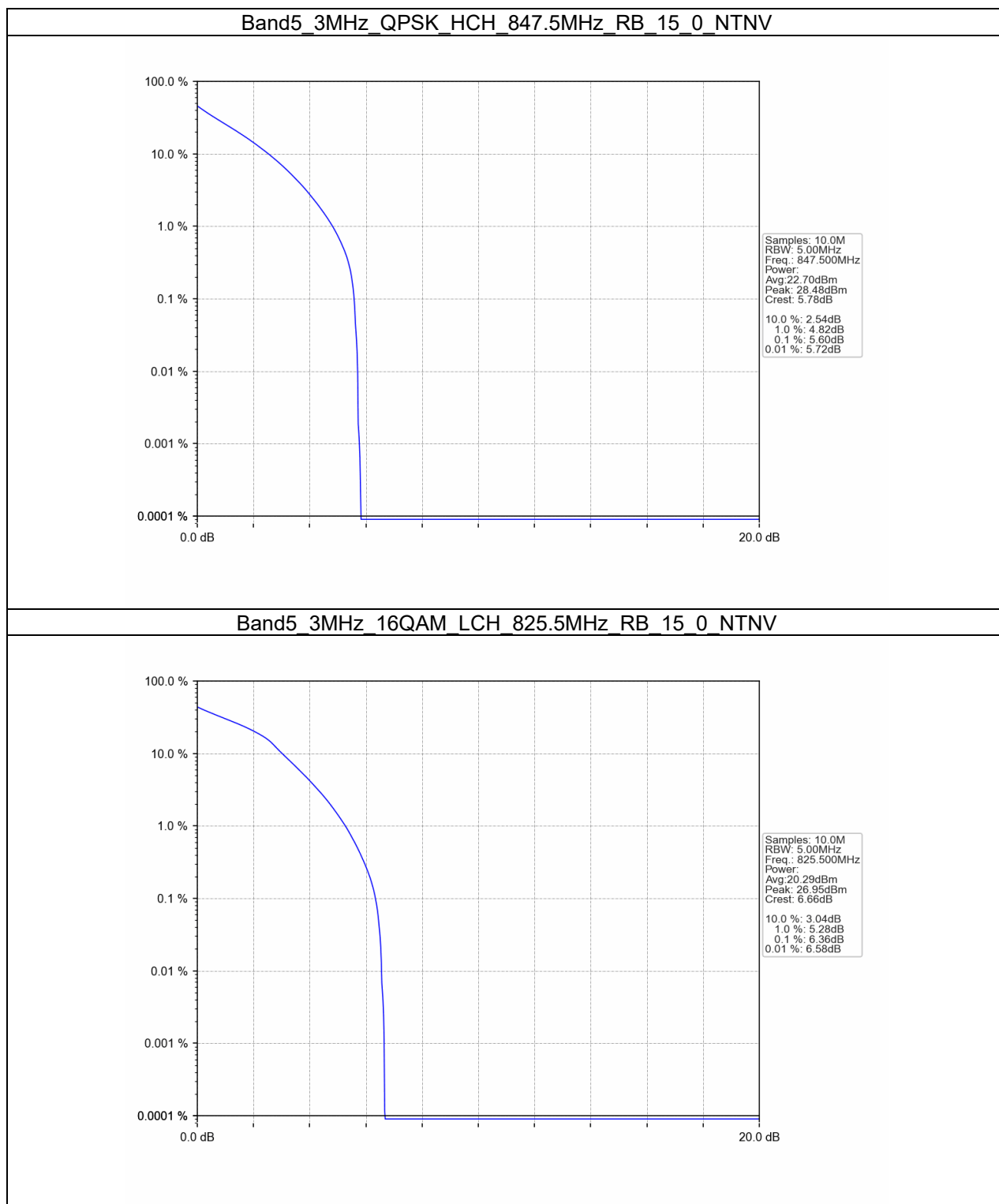


Test Report No.: RF260703B001

B5_3MHz

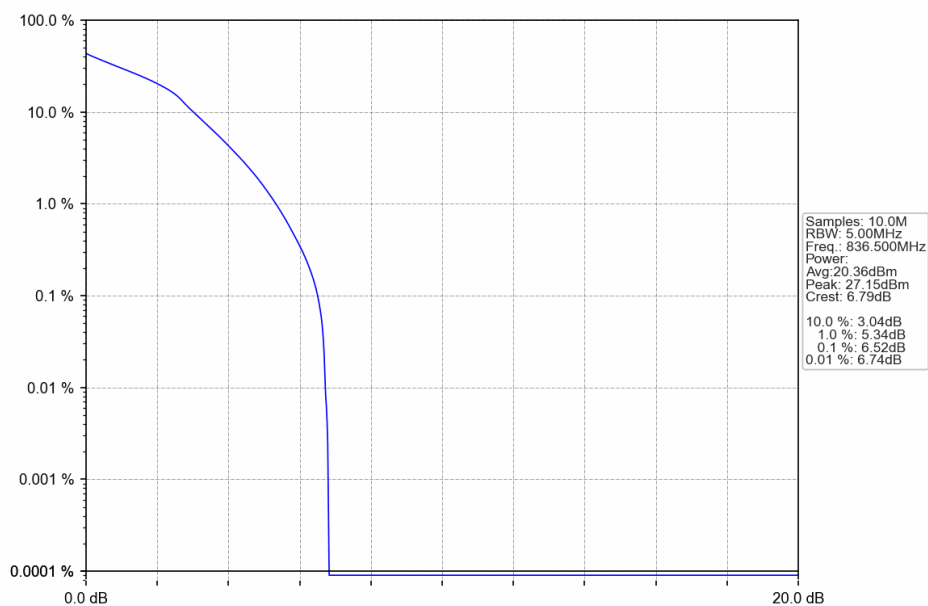


Test Report No.: RF260703B001

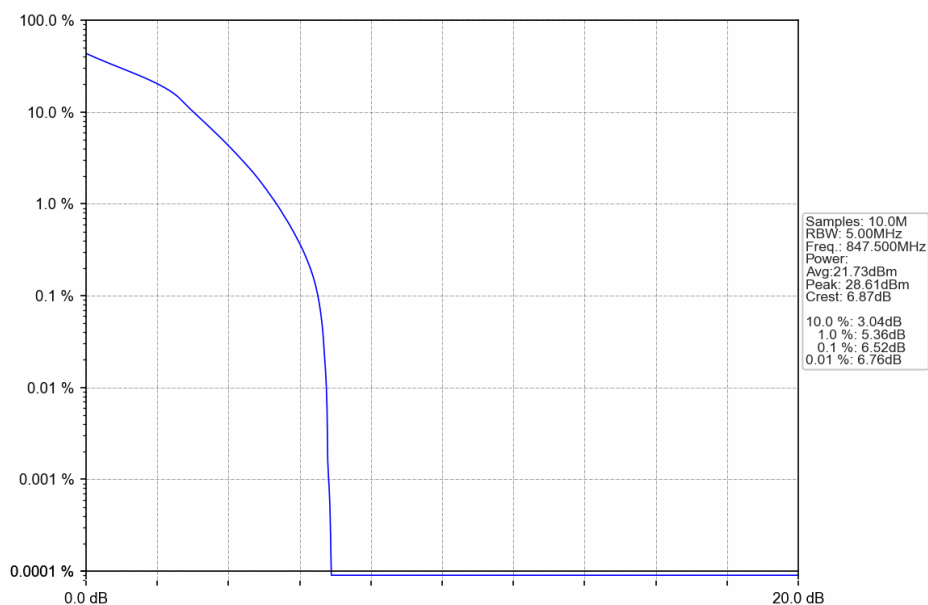


Test Report No.: RF260703B001

Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

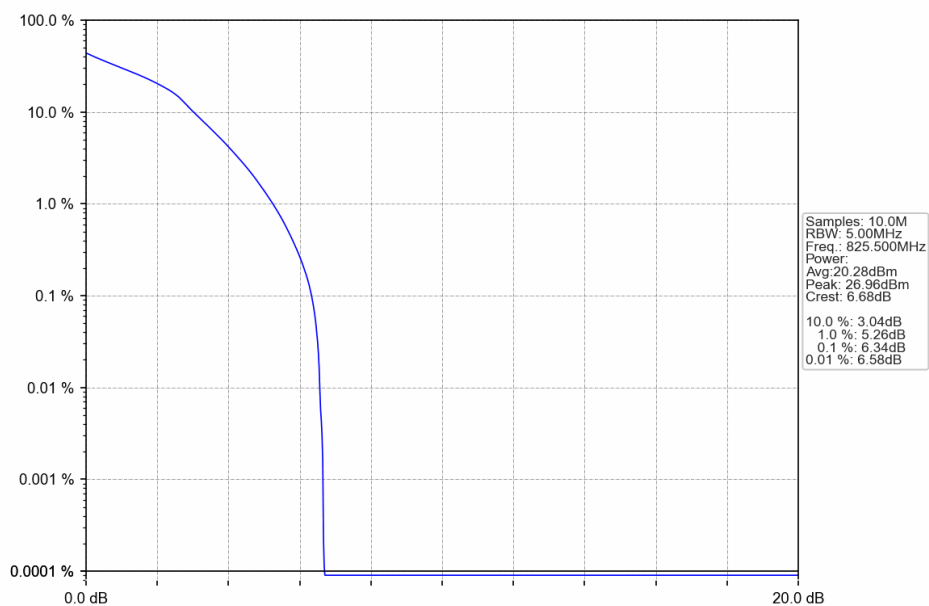


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

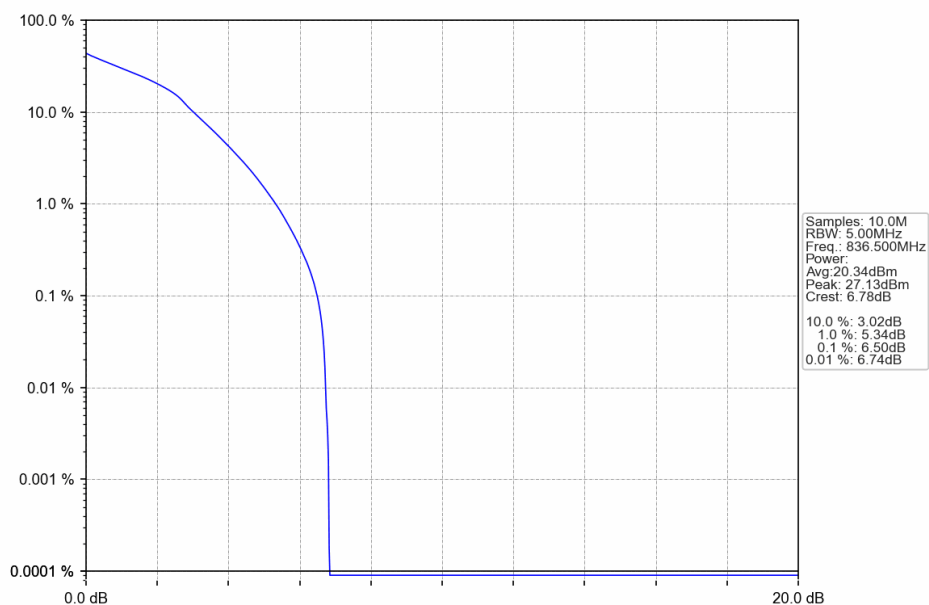


Test Report No.: RF260703B001

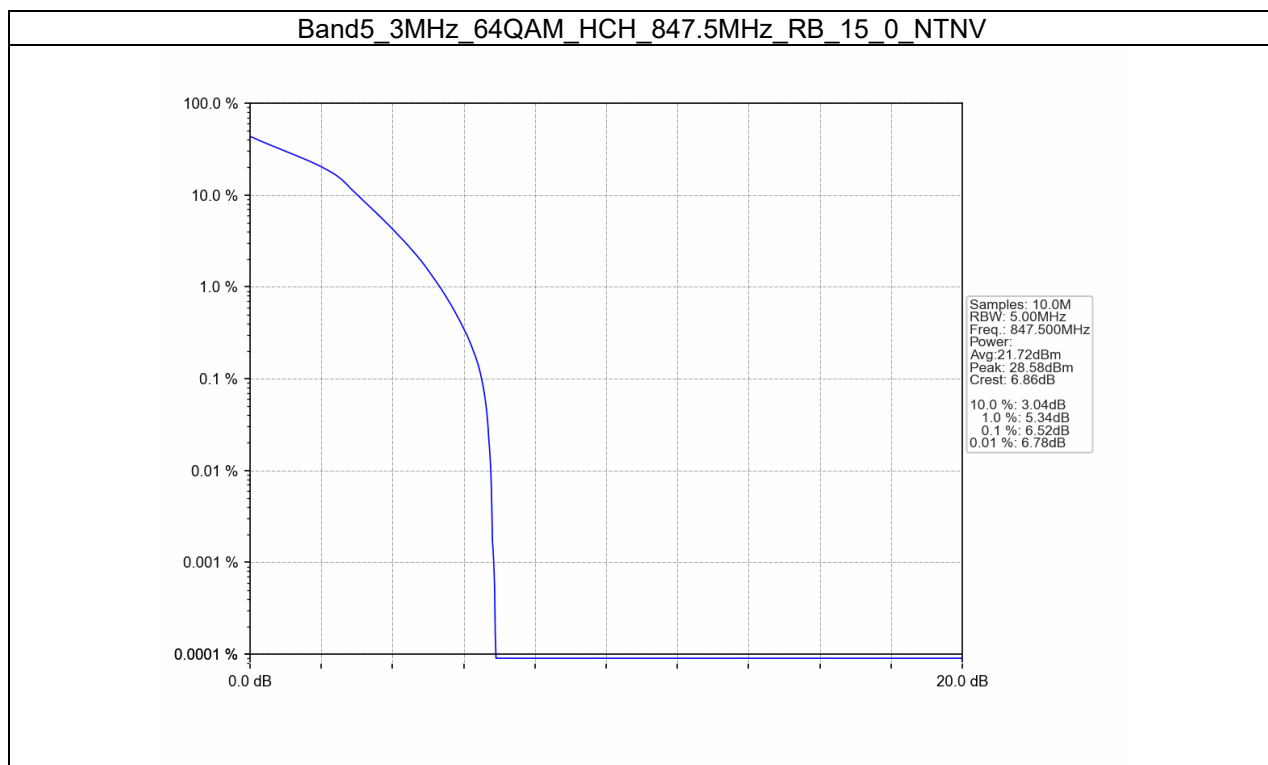
Band5 3MHz 64QAM LCH 825.5MHz RB 15 0 NTN



Band5 3MHz 64QAM MCH 836.5MHz RB 15 0 NTN



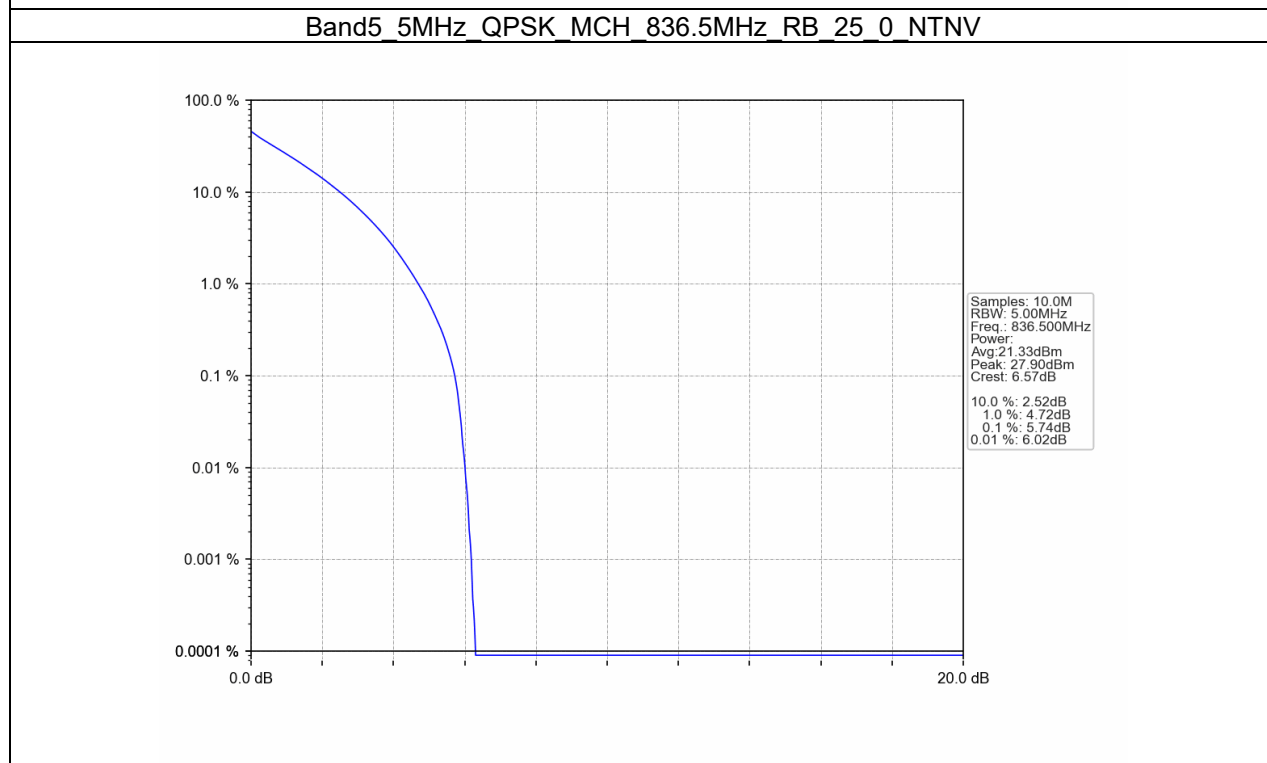
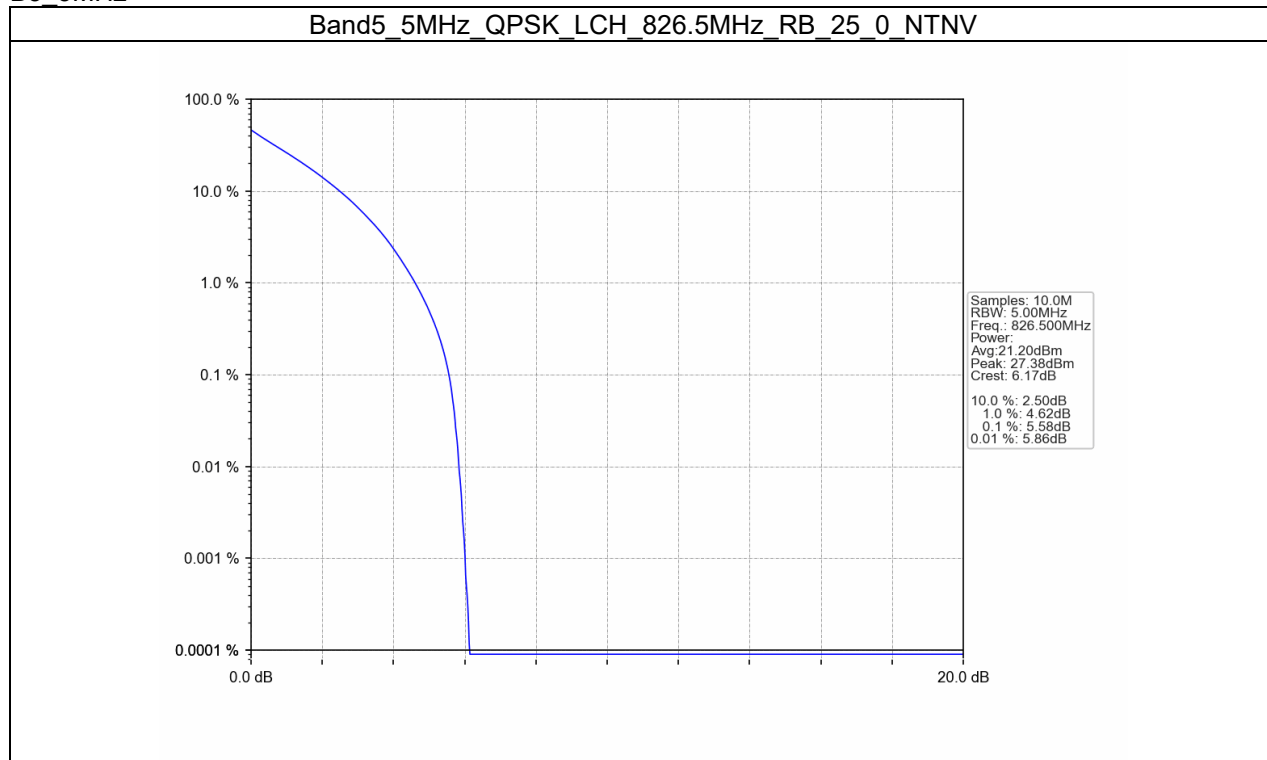
Test Report No.: RF260703B001



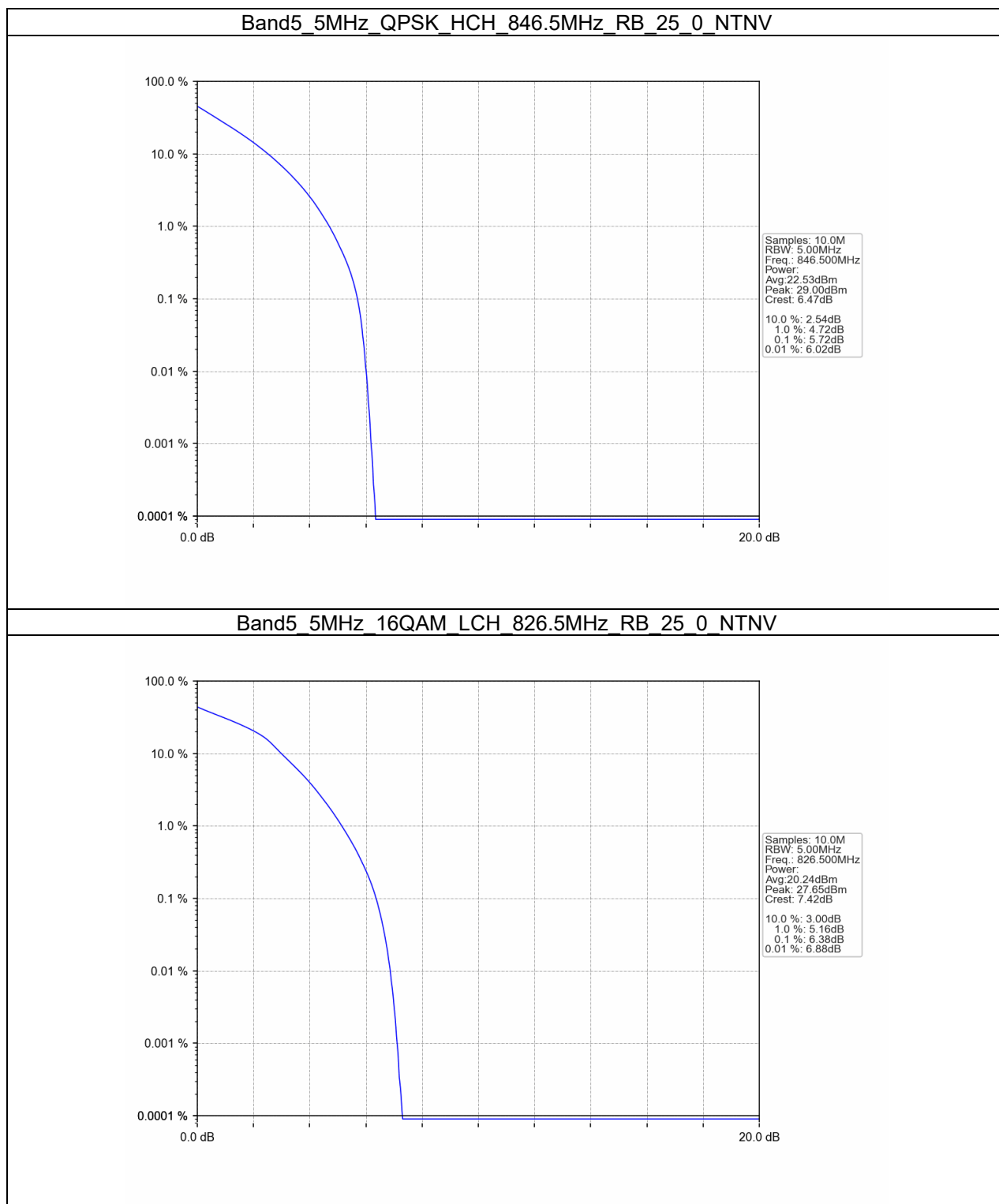


Test Report No.: RF260703B001

B5_5MHz



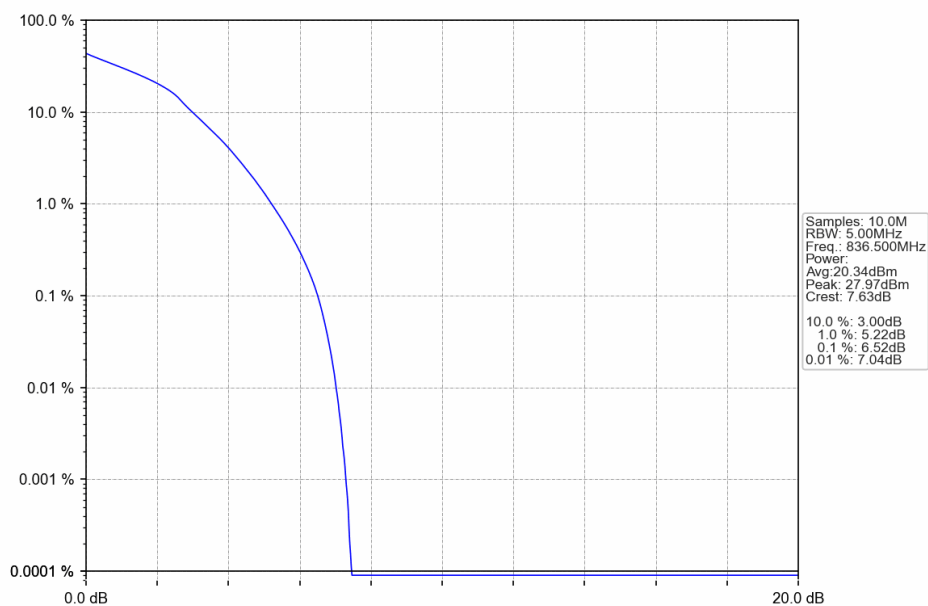
Test Report No.: RF260703B001



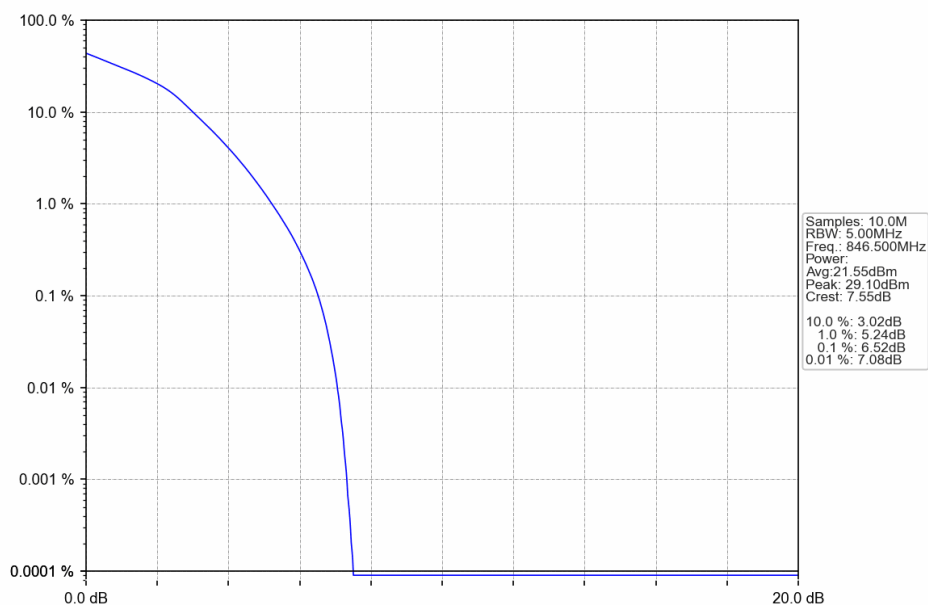


Test Report No.: RF260703B001

Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



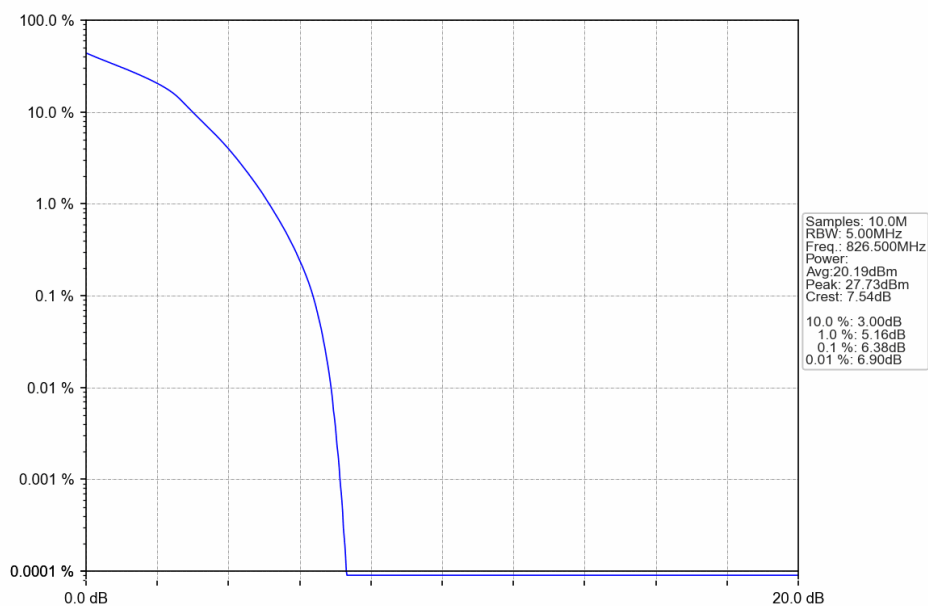
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



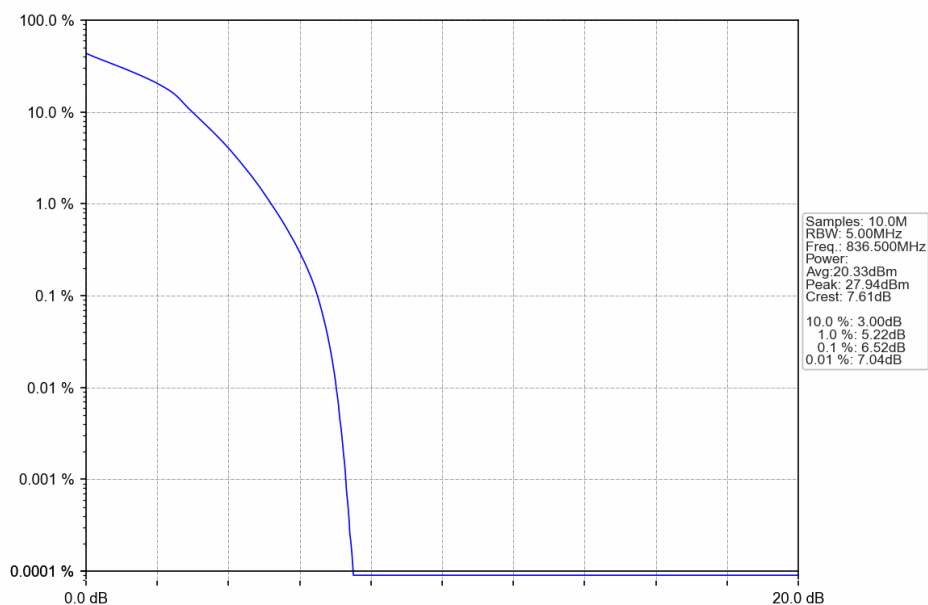


Test Report No.: RF260703B001

Band5 5MHz 64QAM LCH 826.5MHz RB 25 0 NTN

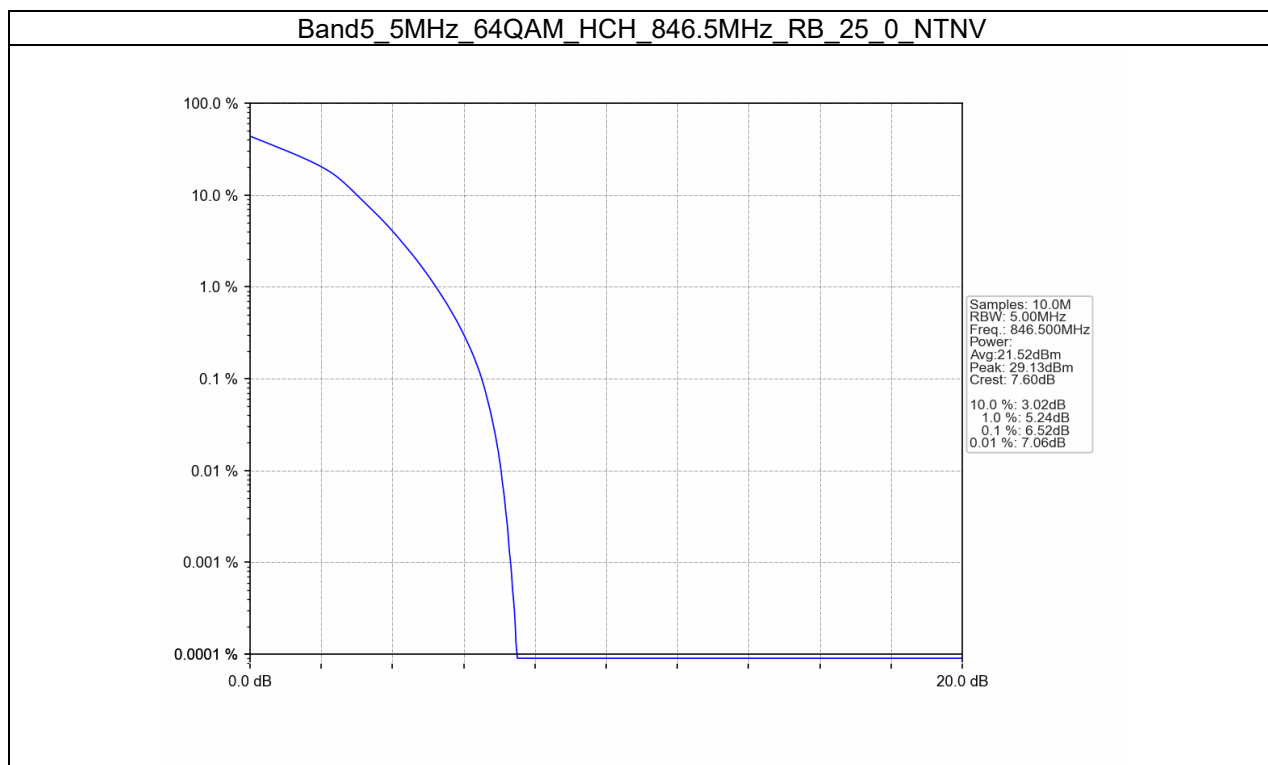


Band5 5MHz 64QAM MCH 836.5MHz RB 25 0 NTN





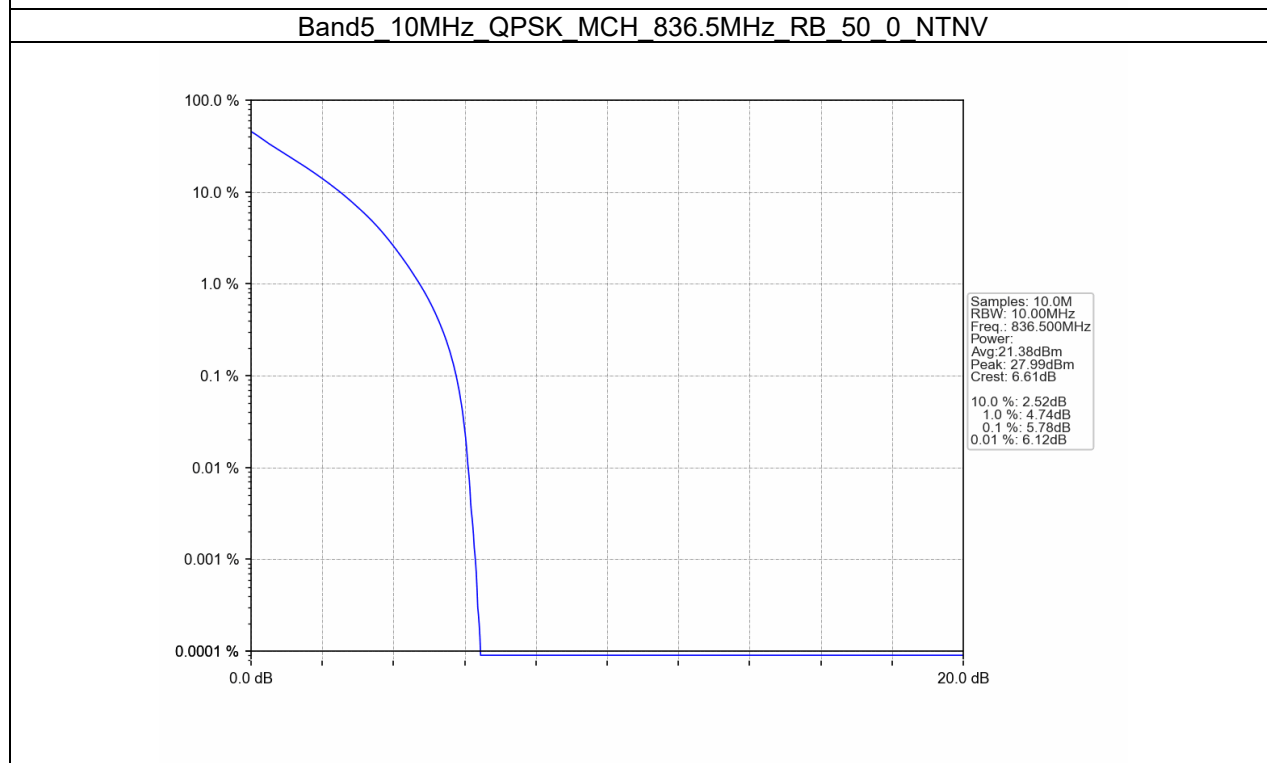
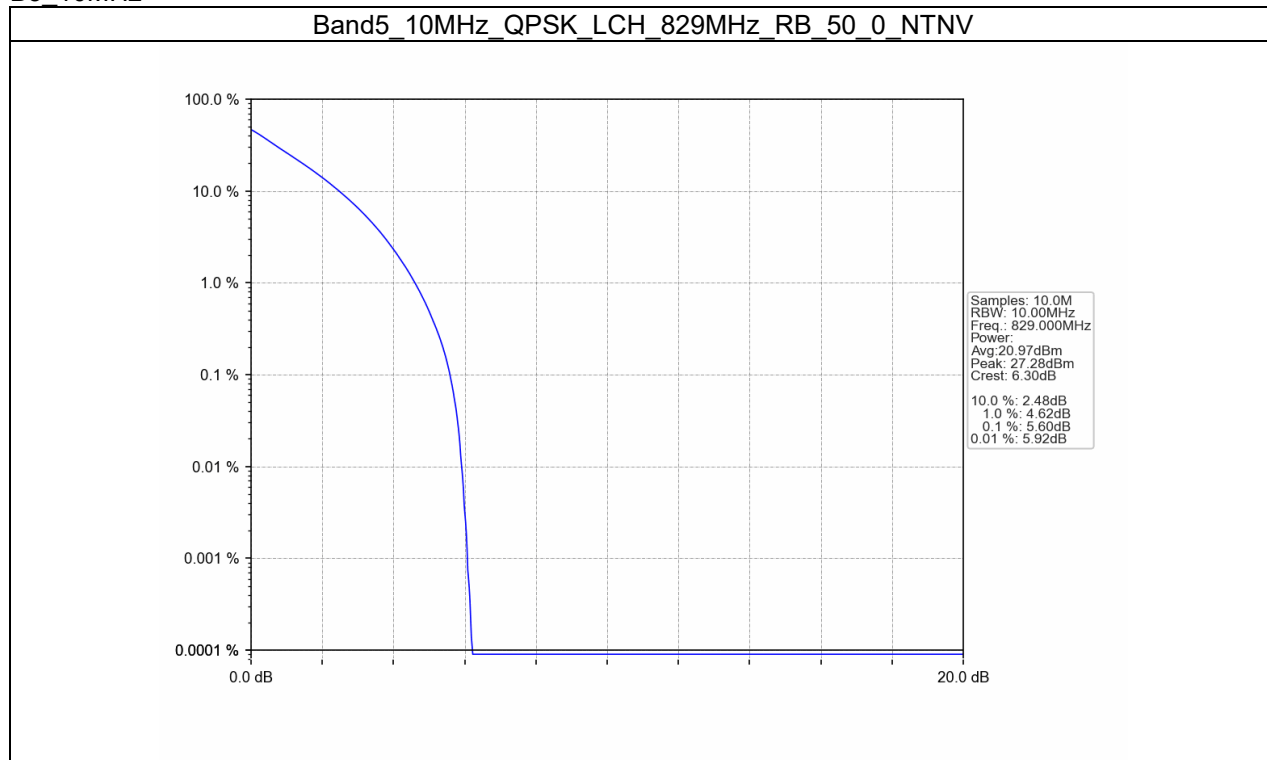
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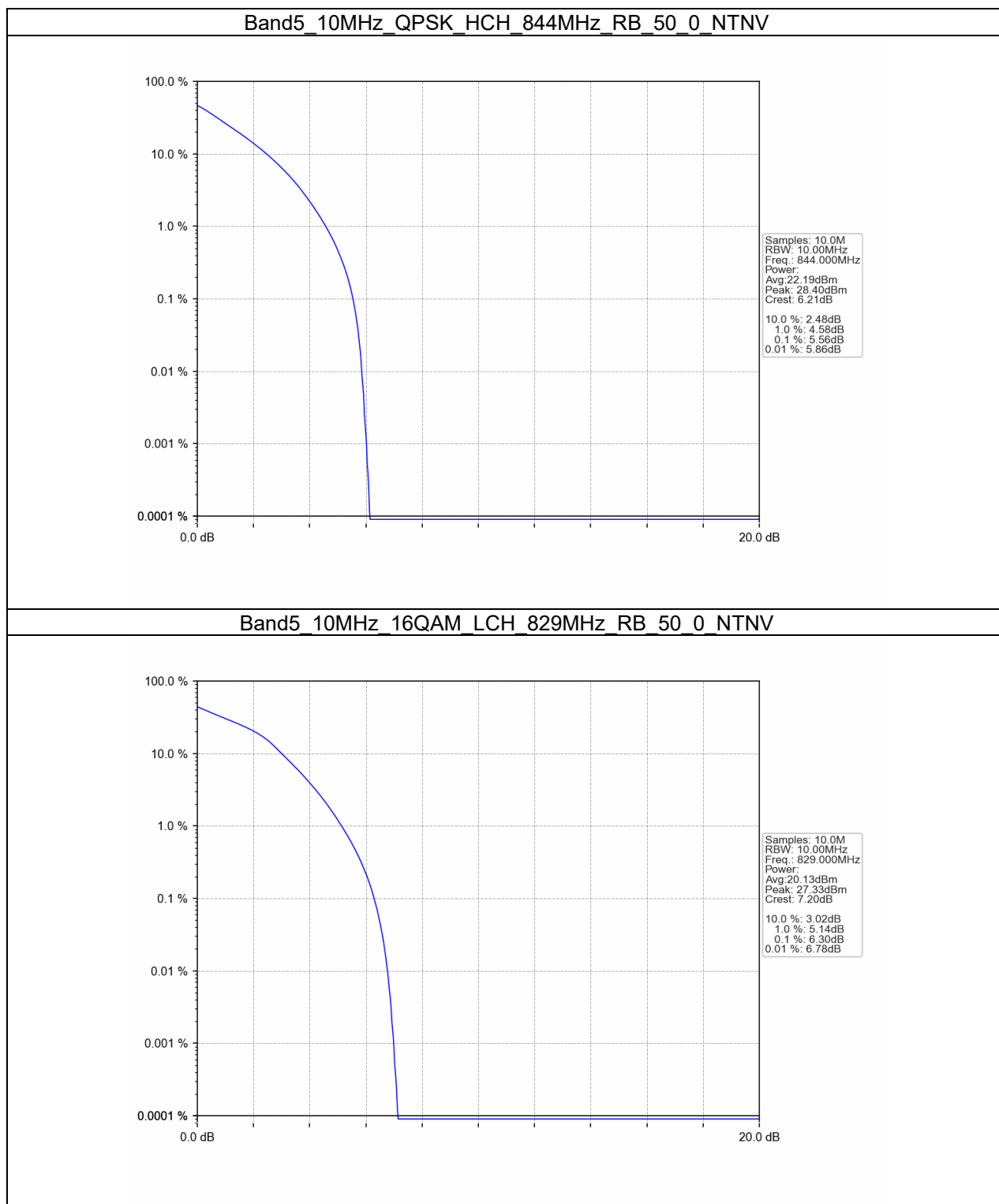


Test Report No.: RF260703B001

B5_10MHz



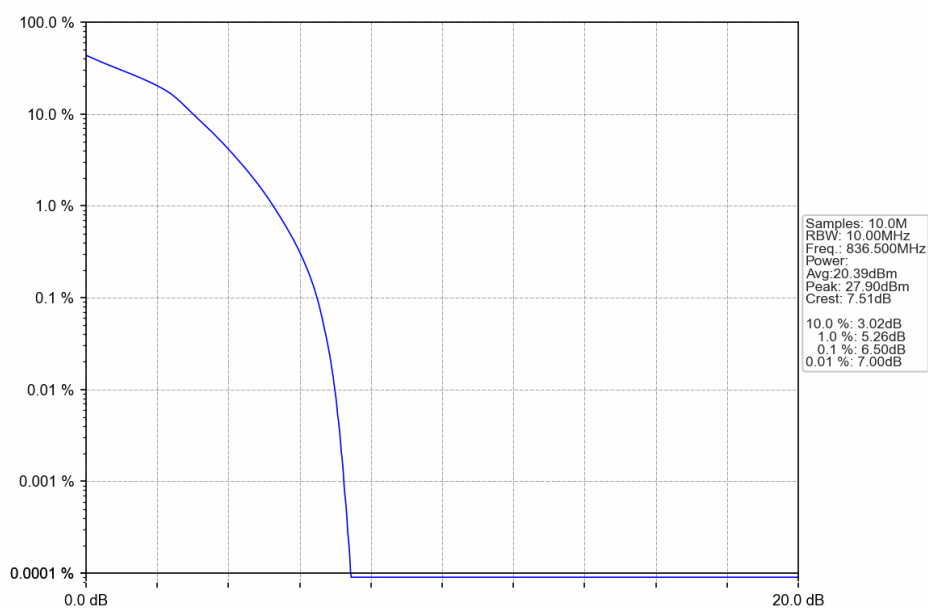
Test Report No.: RF260703B001



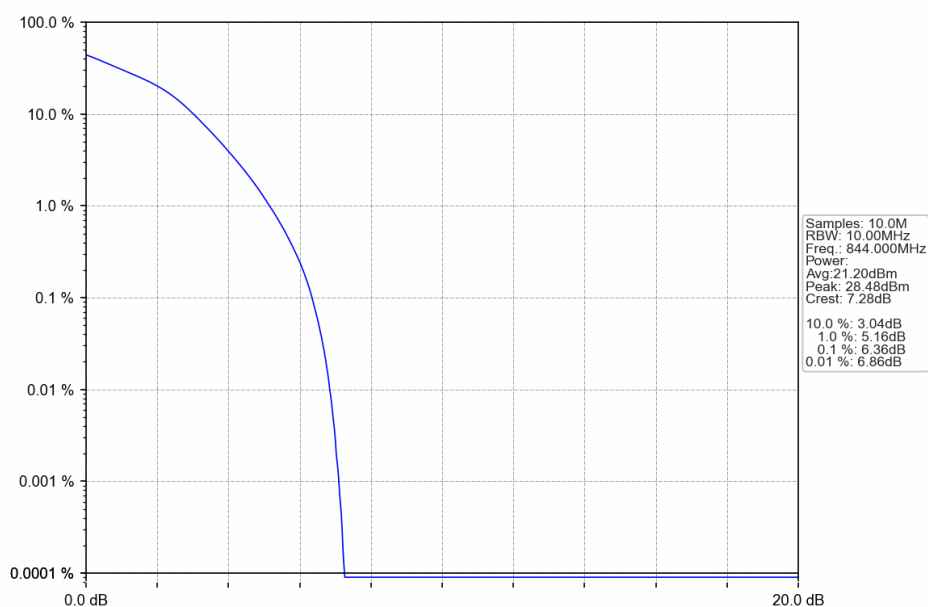


Test Report No.: RF260703B001

Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

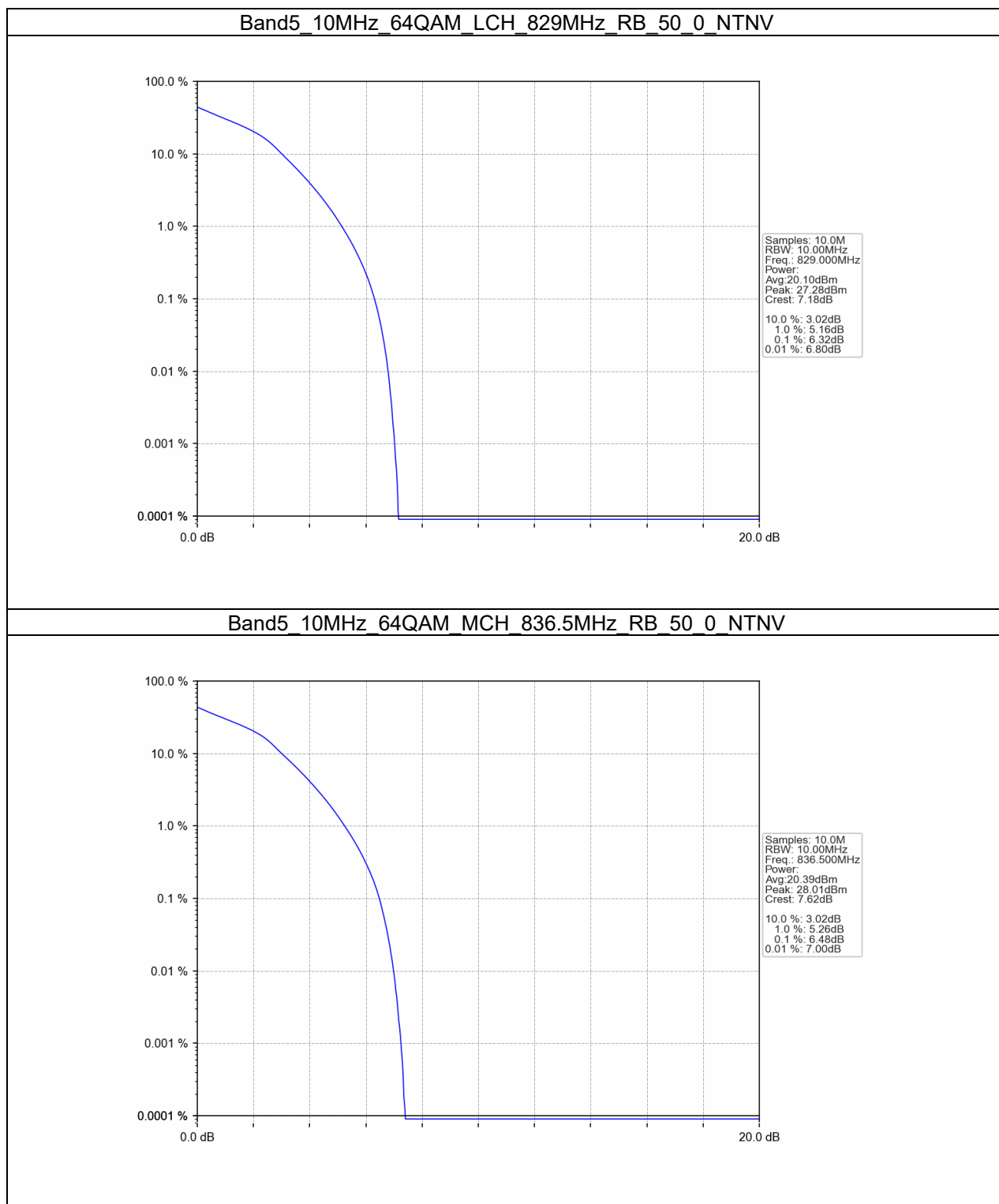


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



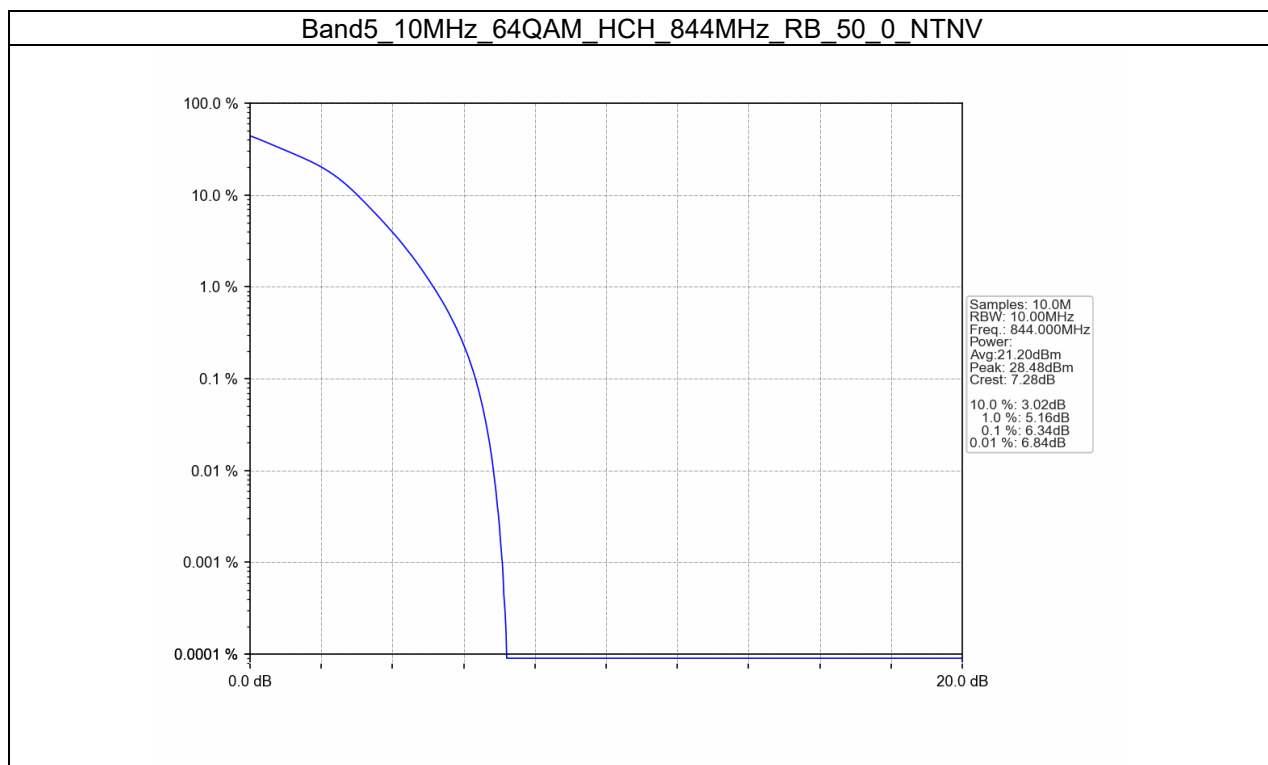


Test Report No.: RF260703B001





Test Report No.: RF260703B001





Test Report No.: RF260703B001

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.309	/	Pass
		836.5	6	0	1.325	/	Pass
		848.3	6	0	1.308	/	Pass
	16QAM	824.7	6	0	1.332	/	Pass
		836.5	6	0	1.314	/	Pass
		848.3	6	0	1.329	/	Pass
	64QAM	824.7	6	0	1.316	/	Pass
		836.5	6	0	1.367	/	Pass
		848.3	6	0	1.341	/	Pass
3	QPSK	825.5	15	0	2.995	/	Pass
		836.5	15	0	2.972	/	Pass
		847.5	15	0	3.003	/	Pass
	16QAM	825.5	15	0	3.029	/	Pass
		836.5	15	0	2.983	/	Pass
		847.5	15	0	3.039	/	Pass
	64QAM	825.5	15	0	2.986	/	Pass
		836.5	15	0	3.002	/	Pass
		847.5	15	0	2.972	/	Pass
5	QPSK	826.5	25	0	5.048	/	Pass
		836.5	25	0	5.040	/	Pass
		846.5	25	0	5.123	/	Pass
	16QAM	826.5	25	0	5.020	/	Pass
		836.5	25	0	5.055	/	Pass
		846.5	25	0	5.004	/	Pass
	64QAM	826.5	25	0	5.039	/	Pass
		836.5	25	0	5.019	/	Pass
		846.5	25	0	5.008	/	Pass
10	QPSK	829	50	0	9.723	/	Pass
		836.5	50	0	10.035	/	Pass
		844	50	0	9.749	/	Pass
	16QAM	829	50	0	9.666	/	Pass
		836.5	50	0	9.745	/	Pass
		844	50	0	9.717	/	Pass
	64QAM	829	50	0	9.827	/	Pass
		836.5	50	0	9.772	/	Pass
		844	50	0	9.832	/	Pass



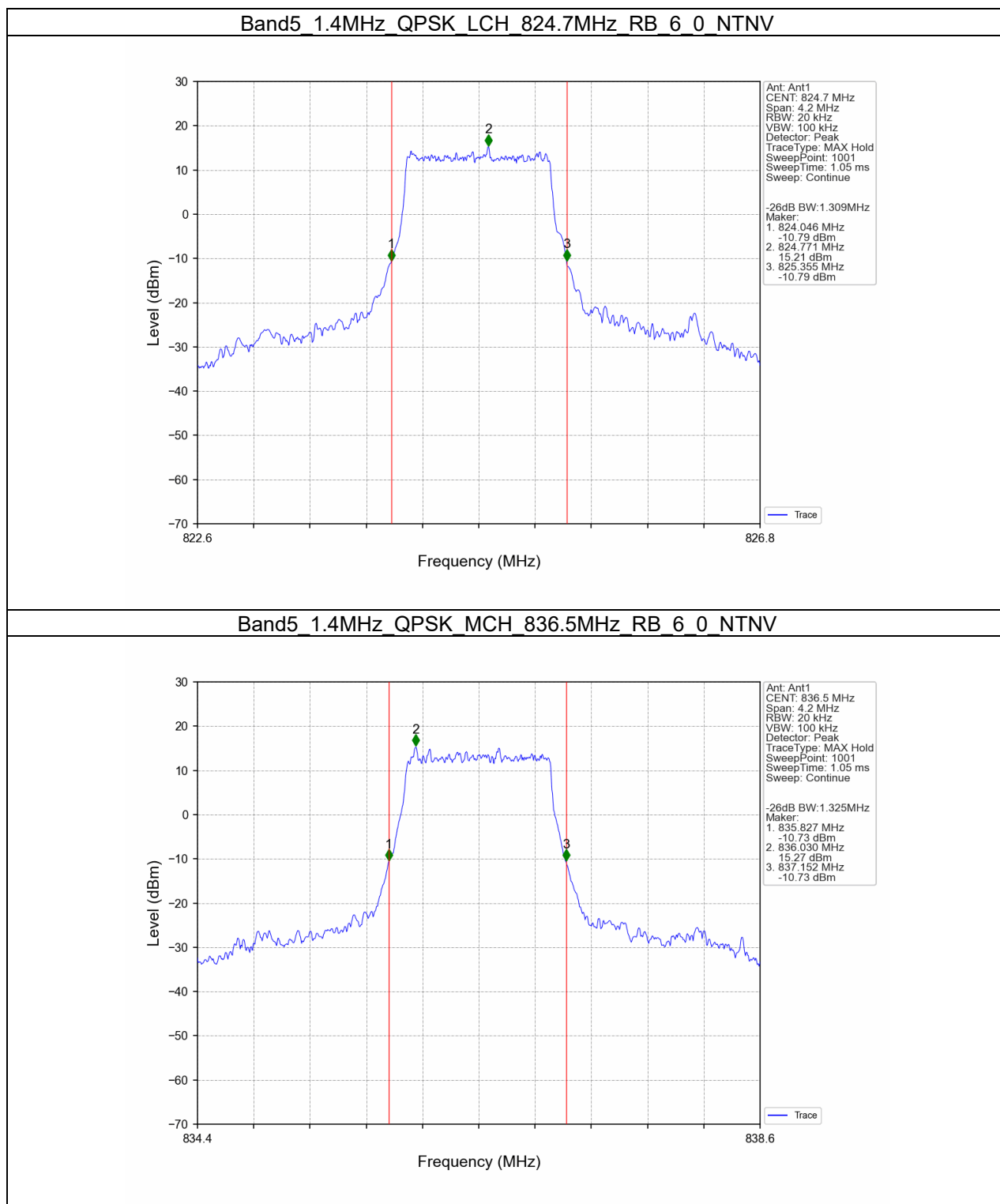
Test Report No.: RF260703B001

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.087	/	Pass
		836.5	6	0	1.090	/	Pass
		848.3	6	0	1.087	/	Pass
	16QAM	824.7	6	0	1.093	/	Pass
		836.5	6	0	1.088	/	Pass
		848.3	6	0	1.089	/	Pass
	64QAM	824.7	6	0	1.093	/	Pass
		836.5	6	0	1.089	/	Pass
		848.3	6	0	1.089	/	Pass
3	QPSK	825.5	15	0	2.692	/	Pass
		836.5	15	0	2.687	/	Pass
		847.5	15	0	2.688	/	Pass
	16QAM	825.5	15	0	2.688	/	Pass
		836.5	15	0	2.687	/	Pass
		847.5	15	0	2.693	/	Pass
	64QAM	825.5	15	0	2.694	/	Pass
		836.5	15	0	2.694	/	Pass
		847.5	15	0	2.688	/	Pass
5	QPSK	826.5	25	0	4.479	/	Pass
		836.5	25	0	4.483	/	Pass
		846.5	25	0	4.486	/	Pass
	16QAM	826.5	25	0	4.481	/	Pass
		836.5	25	0	4.486	/	Pass
		846.5	25	0	4.483	/	Pass
	64QAM	826.5	25	0	4.482	/	Pass
		836.5	25	0	4.475	/	Pass
		846.5	25	0	4.486	/	Pass
10	QPSK	829	50	0	8.929	/	Pass
		836.5	50	0	8.964	/	Pass
		844	50	0	8.951	/	Pass
	16QAM	829	50	0	8.946	/	Pass
		836.5	50	0	8.983	/	Pass
		844	50	0	8.961	/	Pass
	64QAM	829	50	0	8.926	/	Pass
		836.5	50	0	8.965	/	Pass
		844	50	0	8.948	/	Pass



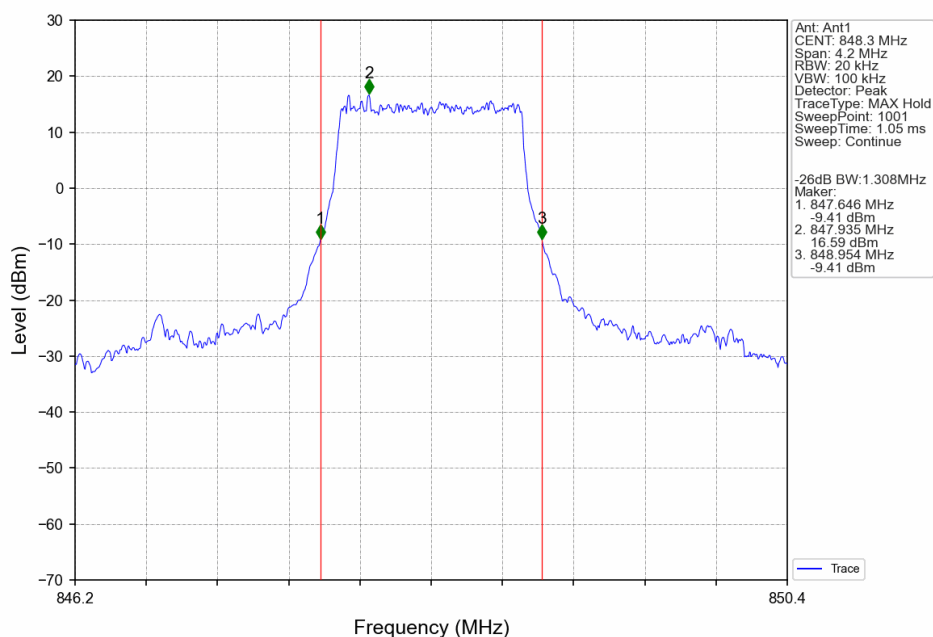
Test Report No.: RF260703B001

Test Graphs



Test Report No.: RF260703B001

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

