

FCC TEST REPORT

(PART 22)

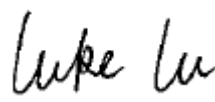
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

Manufacturer or Supplier:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Product:	LTE Smartphone
Brand Name:	Cricket
Model Name:	SL100EA
FCC ID:	2A28USL100EA
Date of tests:	Oct. 27, 2021 ~ Dec. 23, 2021

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

- | | |
|---|---|
| ☒ FCC PART 22, Subpart H | ☒ FCC Part 2 |
| ☒ ANSI/TIA/EIA-603-D | ☒ ANSI C63.26-2015 |
| ☒ ANSI/TIA/EIA-603-E | |

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Dec. 24, 2021	Date: Dec. 24, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P21100025RF04	Original release	Dec. 24, 2021

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.

Note: Except the data of RSE and power, other data please refer to APPENDIX A.

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	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95%



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confidence level using a coverage factor of $k=2$.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	Feb. 14,20	Feb. 13,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168692	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 25,21	Feb. 24,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V 7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
Power Meter	Anritsu	ML2495A	1506002	Apr. 07,21	Apr. 06,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 02,21	Jun. 01,22
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 05,21	Mar. 04,22
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GREGT/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 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE Smartphone	
BRAND NAME	Cricket	
MODEL NAME	SL100EA	
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.85Vdc (Li-ion, battery)	
MODULATION TYPE	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	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	LTE Band 5 (Channel Bandwidth: 1.4MHz)	119.67mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	119.95mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	119.67mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	121.34mW
EMISSION DESIGNATOR GOGN	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M12G7D
		16QAM: 1M11W7D
		64QAM: 1M12W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M73G7D
		16QAM: 2M73W7D
		64QAM: 2M74W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M55G7D
		16QAM: 4M56W7D
		64QAM: 4M55W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M06G7D
		16QAM: 9M09W7D
		64QAM: 9M08W7D
ANTENNA TYPE	PIFA Antenna with -1.2dBi gain for LTE B5	
HW VERSION	1.0	
SW VERSION	SL100EAC010001	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable: unshielded without ferrite, 1.0meter	



EXTREME TEMPERATURE	-10-55 °C
EXTREME VOLTAGE	3.6V - 4.4V

NOTE:

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

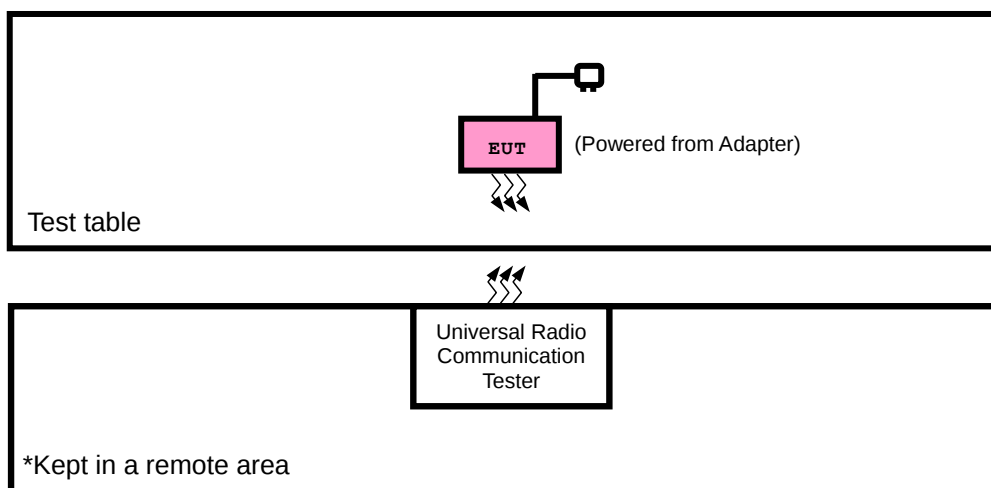
MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

4. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	COOSEA	ZHONGSHAN TIANMAO BATTERY CO., LTD	BL-A32CT	Capacity: 3.85 Vdc, 3450mAh
AC Adapter	COOSEA	Guangdong Beicom Electronics Co., Ltd.	U312E0A05020 0	I/P:100-240V,50/60Hz,0.35A, O/P: 5.0V,2.0A 10.0W
USB Cable	COOSEA	Wivtak	TP-C0028-B3	Signal Line, 1.0meter

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



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	Kikusui/JP	PMX18-5A	0000001	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 LTE. Following channel(s) was (were) selected for the final test as listed below:

DESCRIPTION
EUT + Adapter with LTE link

LTE BAND 5 MODE

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
FREQUENCY STABILITY	20407 to 20643	20407, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20415 to 20635	20415, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20425 to 20625	20425, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20450 to 20600	20450, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
					6 RB / 0 RB Offset
	20407 to 20643	20643	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 5 RB Offset
					6 RB / 0 RB Offset
	20415 to 20635	20415	3 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
					15 RB / 0 RB Offset
	20415 to 20635	20635	3 MHz	QPSK,16QAM,64QAM	1 RB / 14 RB Offset
					15 RB / 0 RB Offset
	20425 to 20625	20425	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
	20425 to 20625	20625	5MHz	QPSK,16QAM,64QAM	1 RB / 24 RB Offset
					25 RB / 0 RB Offset
	20450 to 20600	20450	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
					50 RB / 0 RB Offset
	20450 to 20600	20600	10MHz	QPSK,16QAM,64QAM	1 RB / 49 RB Offset
					50 RB / 0 RB Offset

CONDCUDED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
	20415 to 20635	20525	3MHz	QPSK	1 RB / 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB / 0 RB Offset
	20450 to 20600	20525	10MHz	QPSK	1 RB / 0 RB Offset
PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	3.6/3.85/4.4V By Battery	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	James Fu
CONDCUDED EMISSION	23deg. C, 70%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V By Adapter	James Fu

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



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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/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

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.

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643	MPR
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	
5/ 1.4	QPSK	1	0	23.72	23.91	23.90	0
		1	2	24.01	24.13	24.13	0
		1	5	23.74	23.83	23.90	0
		3	0	23.85	23.99	24.03	0
		3	1	23.90	24.13	24.01	0
		3	3	23.92	24.05	24.08	0
		6	0	22.92	23.08	23.07	1
	16QAM	1	0	23.02	23.19	23.22	1
		1	2	23.21	23.38	23.39	1
		1	5	23.02	23.10	23.21	1
		3	0	22.83	23.01	22.97	1
		3	1	22.85	23.13	23.03	1
		3	3	22.90	23.08	23.13	1
		6	0	21.86	22.06	22.03	2
	64QAM	1	0	21.92	22.13	22.17	2
		1	2	22.05	22.34	22.25	2
		1	5	21.94	22.12	22.15	2
		3	0	21.83	22.01	21.94	2
		3	1	21.86	22.14	22.07	2
		3	3	21.89	22.02	22.04	2
		6	0	20.90	21.10	21.07	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635	MPR
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz	
5/ 3	QPSK	1	0	23.74	23.93	23.89	0
		1	7	23.97	24.14	24.13	0
		1	14	23.70	23.83	23.90	0
		8	0	22.84	23.02	23.03	1
		8	3	22.83	23.13	23.03	1
		8	7	22.89	23.12	23.12	1
		15	0	22.89	23.09	23.01	1
	16QAM	1	0	22.99	23.25	23.25	1
		1	7	23.18	23.41	23.37	1
		1	14	23.05	23.10	23.21	1
		8	0	21.79	22.02	21.97	2
		8	3	21.90	22.08	22.06	2
		8	7	21.92	22.06	22.09	2
		15	0	21.86	22.00	22.06	2
	64QAM	1	0	21.98	22.16	22.11	2
		1	7	22.08	22.28	22.24	2
		1	14	21.95	22.14	22.15	2
		8	0	20.86	21.05	20.95	3
		8	3	20.90	21.08	21.12	3
		8	7	20.86	21.06	21.00	3
		15	0	20.92	21.07	21.11	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	MPR
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
5/ 5	QPSK	1	0	23.75	23.88	23.90	0
		1	12	24.02	24.11	24.13	0
		1	24	23.71	23.82	23.94	0
		12	0	22.87	23.02	23.00	1
		12	6	22.83	23.14	23.04	1
		12	13	22.93	23.08	23.13	1
		25	0	22.87	23.12	23.04	1
	16QAM	1	0	23.00	23.21	23.25	1
		1	12	23.15	23.44	23.36	1
		1	24	23.05	23.10	23.20	1
		12	0	21.79	22.00	21.94	2
		12	6	21.87	22.12	22.02	2
		12	13	21.87	22.08	22.12	2
		25	0	21.86	22.01	22.03	2
	64QAM	1	0	21.92	22.13	22.17	2
		1	12	22.05	22.34	22.24	2
		1	24	21.88	22.19	22.15	2
		12	0	20.87	21.02	20.94	3
		12	6	20.84	21.15	21.11	3
		12	13	20.90	21.05	20.97	3
		25	0	20.88	21.13	21.09	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600	MPR
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz	
5/ 10	QPSK	1	0	23.80	23.95	23.95	0
		1	24	24.04	24.19	24.15	0
		1	49	23.76	23.90	23.95	0
		25	0	22.91	23.07	23.05	1
		25	12	22.91	23.15	23.09	1
		25	25	22.97	23.13	23.14	1
		50	0	22.93	23.14	23.09	1
	16QAM	1	0	23.07	23.26	23.27	1
		1	24	23.23	23.46	23.41	1
		1	49	23.07	23.18	23.22	1
		25	0	21.87	22.06	22.02	2
		25	12	21.93	22.14	22.08	2
		25	25	21.94	22.13	22.14	2
		50	0	21.92	22.08	22.08	2
	64QAM	1	0	21.99	22.18	22.19	2
		1	24	22.13	22.36	22.30	2
		1	49	21.96	22.20	22.17	2
		25	0	20.91	21.07	21.02	3
		25	12	20.92	21.16	21.13	3
		25	25	20.94	21.10	21.05	3
		50	0	20.94	21.15	21.12	3

ERP POWER (dBm)

LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	24.01	-1.2	20.66	116.41	7
20525	836.5	24.13	-1.2	20.78	119.67	7
20643	848.3	24.13	-1.2	20.78	119.67	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.21	-1.2	19.86	96.83	7
20525	836.5	23.38	-1.2	20.03	100.69	7
20643	848.3	23.39	-1.2	20.04	100.93	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.05	-1.2	18.7	74.13	7
20525	836.5	22.34	-1.2	18.99	79.25	7
20643	848.3	22.25	-1.2	18.9	77.62	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.97	-1.2	20.62	115.35	7
20525	836.5	24.14	-1.2	20.79	119.95	7
20635	847.5	24.13	-1.2	20.78	119.67	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.18	-1.2	19.83	96.16	7
20525	836.5	23.41	-1.2	20.06	101.39	7
20635	847.5	23.37	-1.2	20.02	100.46	7



CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.08	-1.2	18.73	74.64	7
20525	836.5	22.28	-1.2	18.93	78.16	7
20635	847.5	22.24	-1.2	18.89	77.45	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	24.02	-1.2	20.67	116.68	7
20525	836.5	24.11	-1.2	20.76	119.12	7
20625	846.5	24.13	-1.2	20.78	119.67	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.15	-1.2	19.8	95.5	7
20525	836.5	23.44	-1.2	20.09	102.09	7
20625	846.5	23.36	-1.2	20.01	100.23	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.05	-1.2	18.7	74.13	7
20525	836.5	22.34	-1.2	18.99	79.25	7
20625	846.5	22.24	-1.2	18.89	77.45	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	24.04	-1.2	20.69	117.22	7
20525	836.5	24.19	-1.2	20.84	121.34	7
20600	844.0	24.15	-1.2	20.8	120.23	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	23.23	-1.2	19.88	97.27	7
20525	836.5	23.46	-1.2	20.11	102.57	7
20600	844.0	23.41	-1.2	20.06	101.39	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.13	-1.2	18.78	75.51	7
20525	836.5	22.36	-1.2	19.01	79.62	7
20600	844.0	22.3	-1.2	18.95	78.52	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

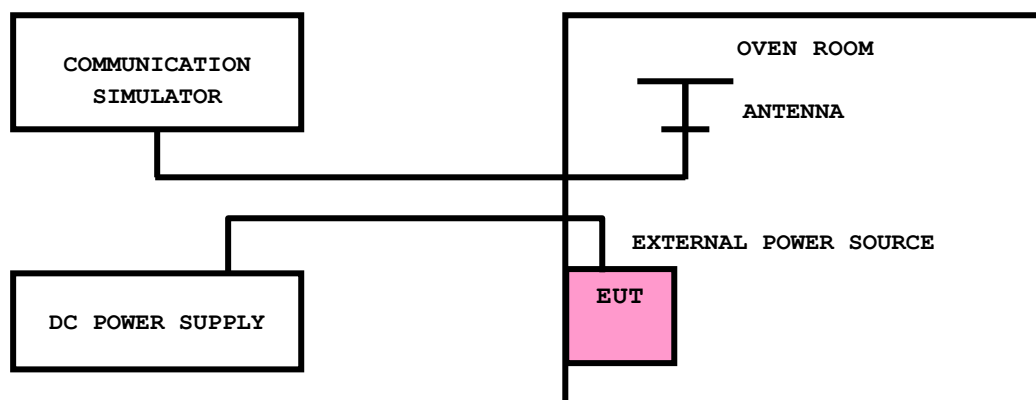
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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





Test Report No.: W7L-P21100025RF04

3.2.4 TEST RESULTS

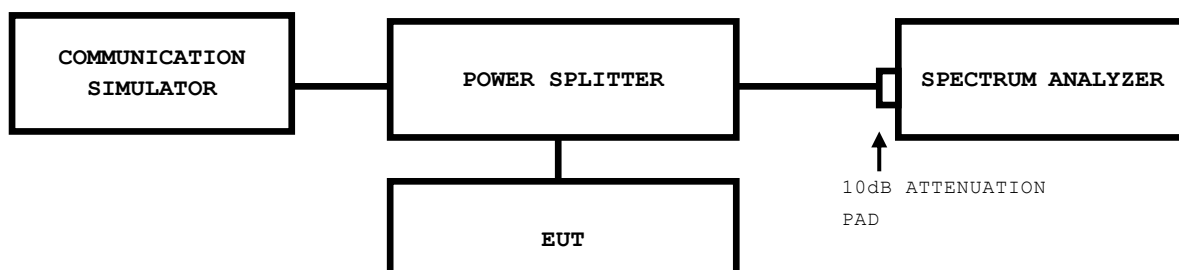
Please Refer to Appendix A Of this test report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.2 TEST SETUP



3.3.3 TEST RESULTS

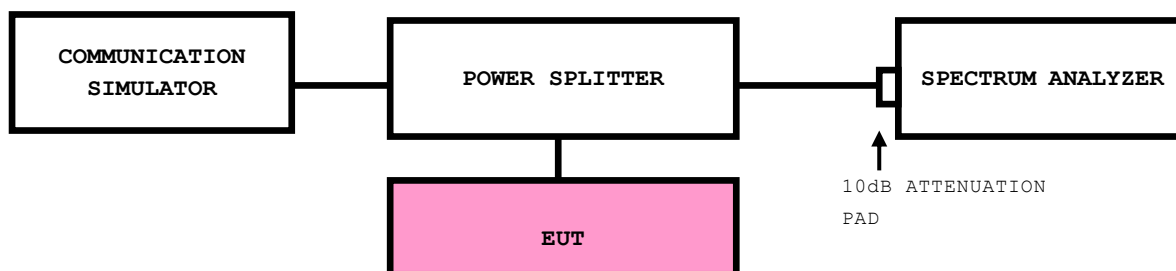
Please Refer to Appendix A Of this test report.

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



3.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.
- c. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/EDGE/LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).
- d. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is $\geq 1\% \cdot \text{EBW kHz}$ and VBW of the spectrum is $3 \cdot \text{RBW kHz}$. (LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).
- f. Record the max trace plot into the test report.



Test Report No.: W7L-P21100025RF04

3.4.4 TEST RESULTS

Please Refer to Appendix A Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

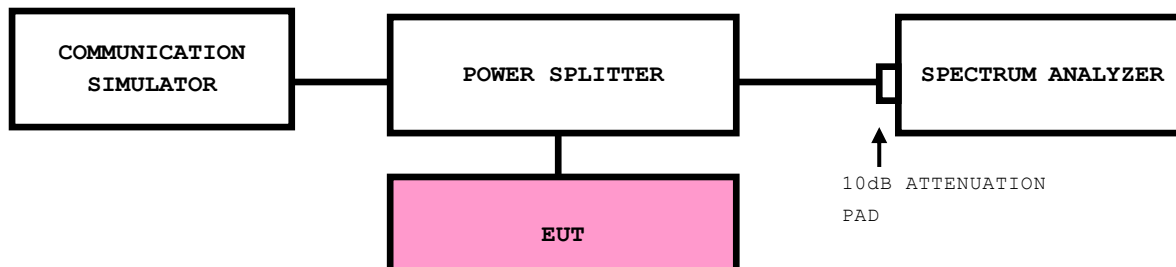
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- a. 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





Test Report No.: W7L-P21100025RF04

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 A Of this test report.

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,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

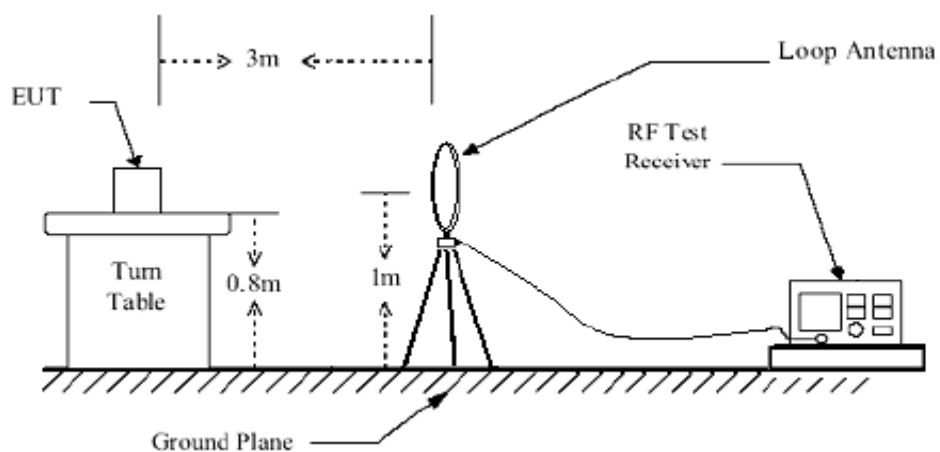
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

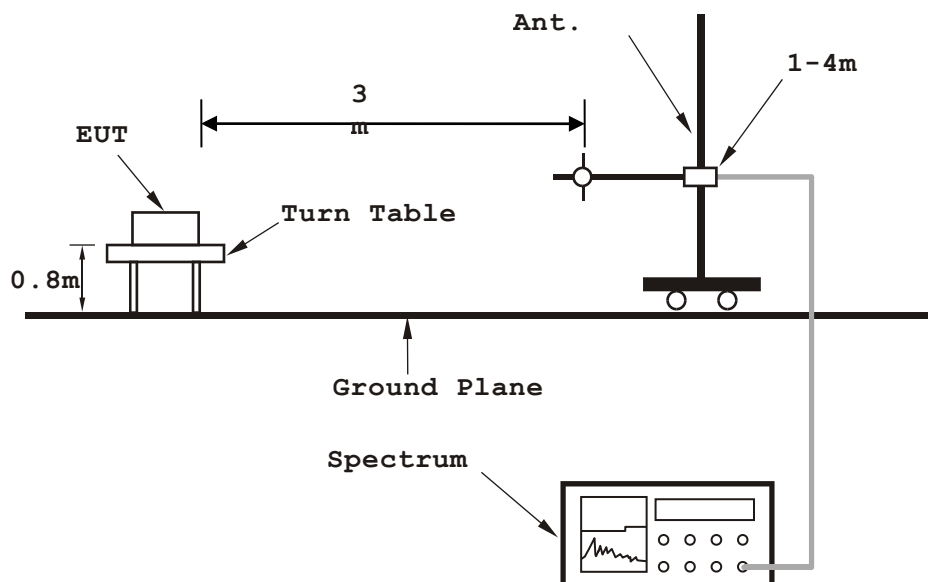
No deviation

3.6.4 TEST SETUP

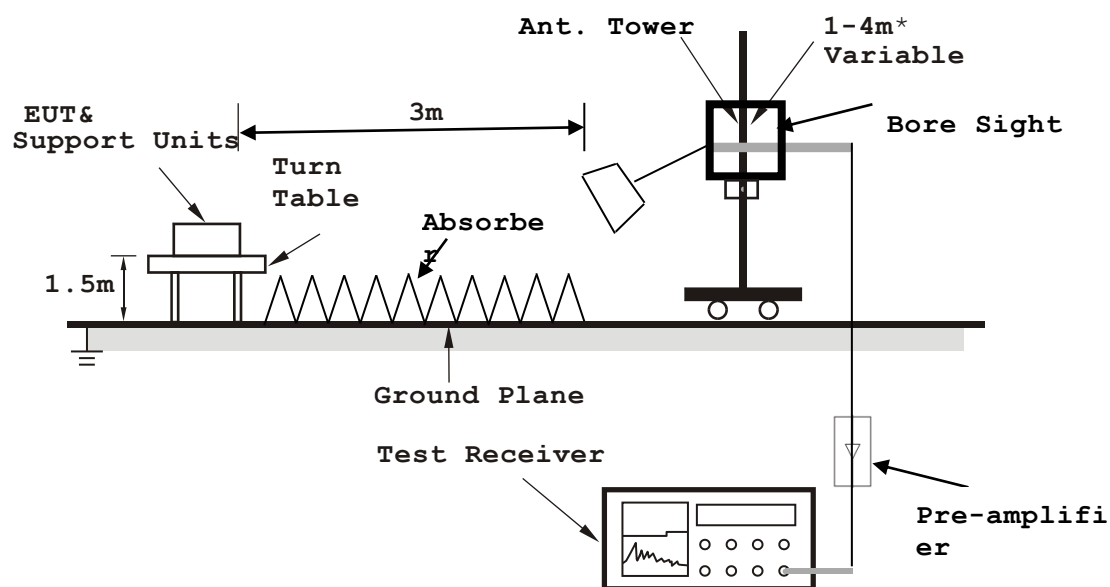
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<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).

3.6.5 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.

BELOW 1GHz WORST-CASE DATA

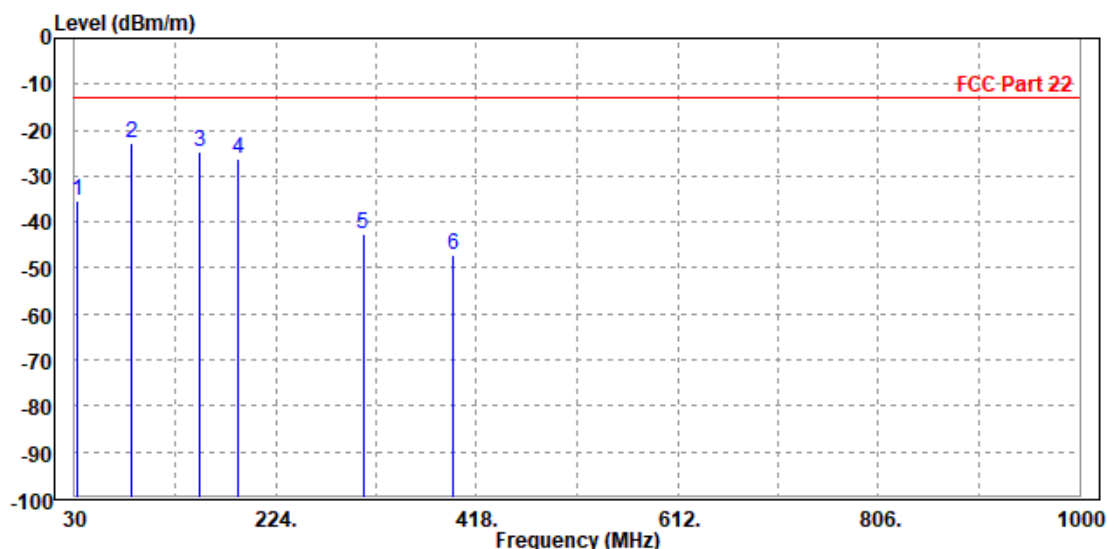
30 MHz – 1GHz data:

LTE Band 5

CHANNEL BANDWIDTH: 10MHz / QPSK

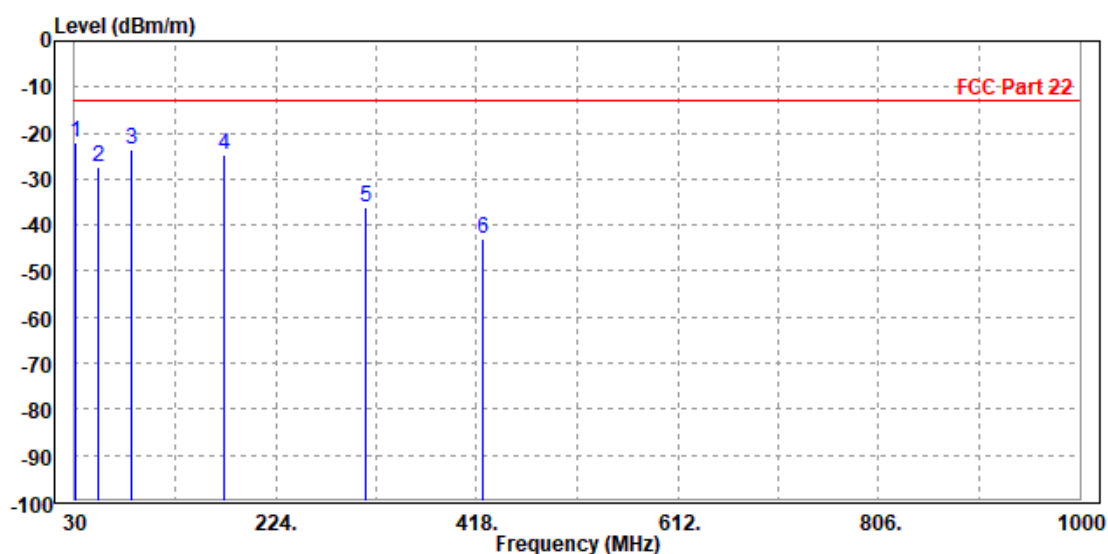
MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-35.39	-55.11	-13.00	-22.39	19.72	Peak	Horizontal
2 PP	85.290	-22.96	-30.81	-13.00	-9.96	7.85	Peak	Horizontal
3	151.250	-24.54	-34.30	-13.00	-11.54	9.76	Peak	Horizontal
4	188.110	-26.31	-36.83	-13.00	-13.31	10.52	Peak	Horizontal
5	308.390	-42.75	-56.99	-13.00	-29.75	14.24	Peak	Horizontal
6	395.690	-47.03	-63.81	-13.00	-34.03	16.78	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	30.970	-22.16	-41.93	-13.00	-9.16	19.77	Peak	Vertical
2	53.280	-27.41	-36.05	-13.00	-14.41	8.64	Peak	Vertical
3	85.290	-23.66	-32.07	-13.00	-10.66	8.41	Peak	Vertical
4	174.530	-24.66	-35.29	-13.00	-11.66	10.63	Peak	Vertical
5	310.330	-36.13	-51.36	-13.00	-23.13	15.23	Peak	Vertical
6	423.820	-42.85	-60.50	-13.00	-29.85	17.65	Peak	Vertical





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Test Report No.: W7L-P21100025RF04

ABOVE 1GHz DATA

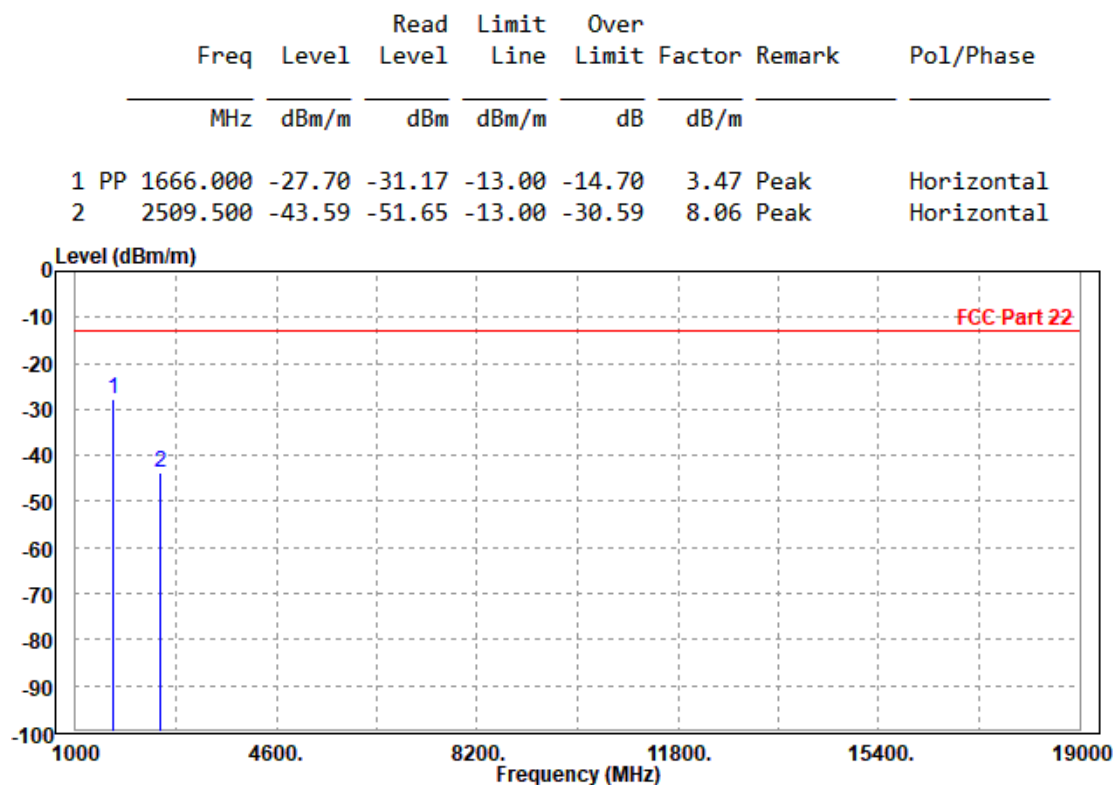
Note:

1. The emission in the range of 1 GHz~1.5 GHz was tested 20db below the limit, the data not recorded in the sheet.
2. For higher frequency, the emission is too low to be detected.

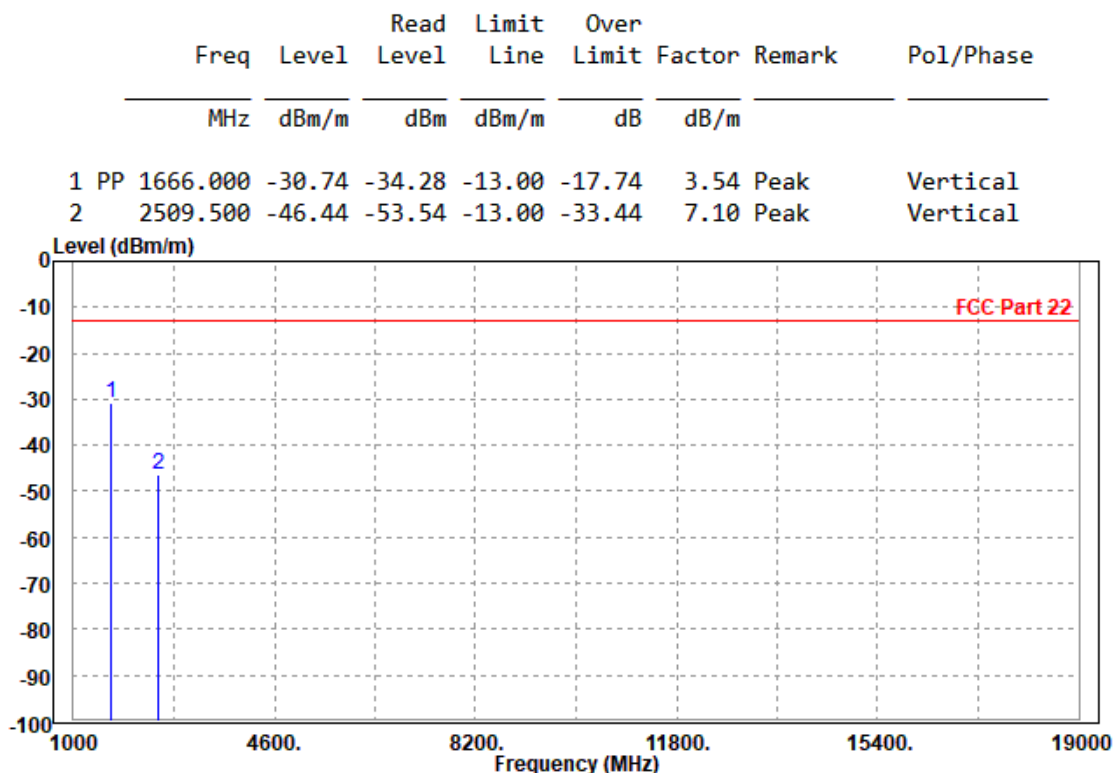
LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



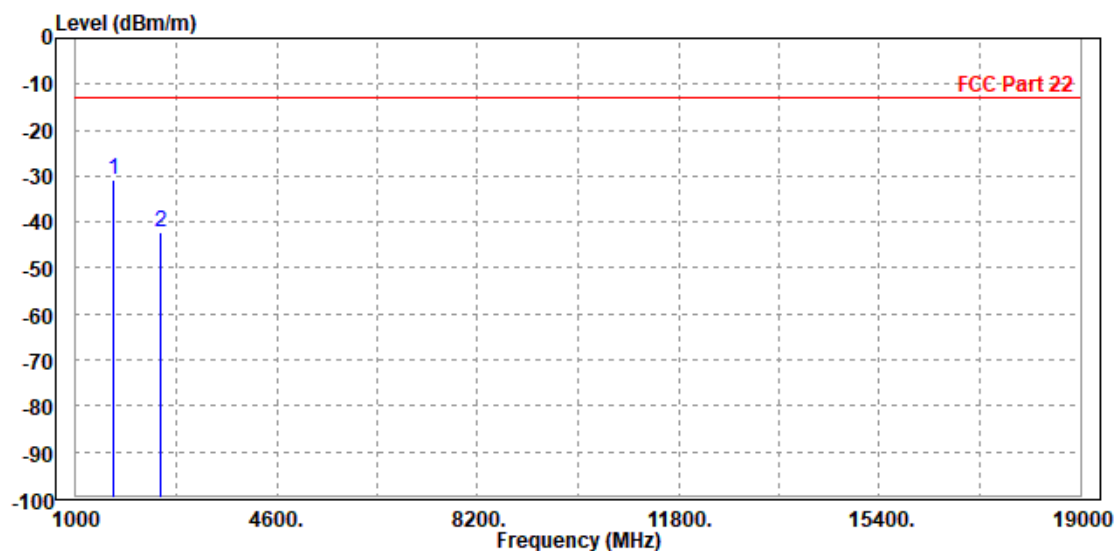
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



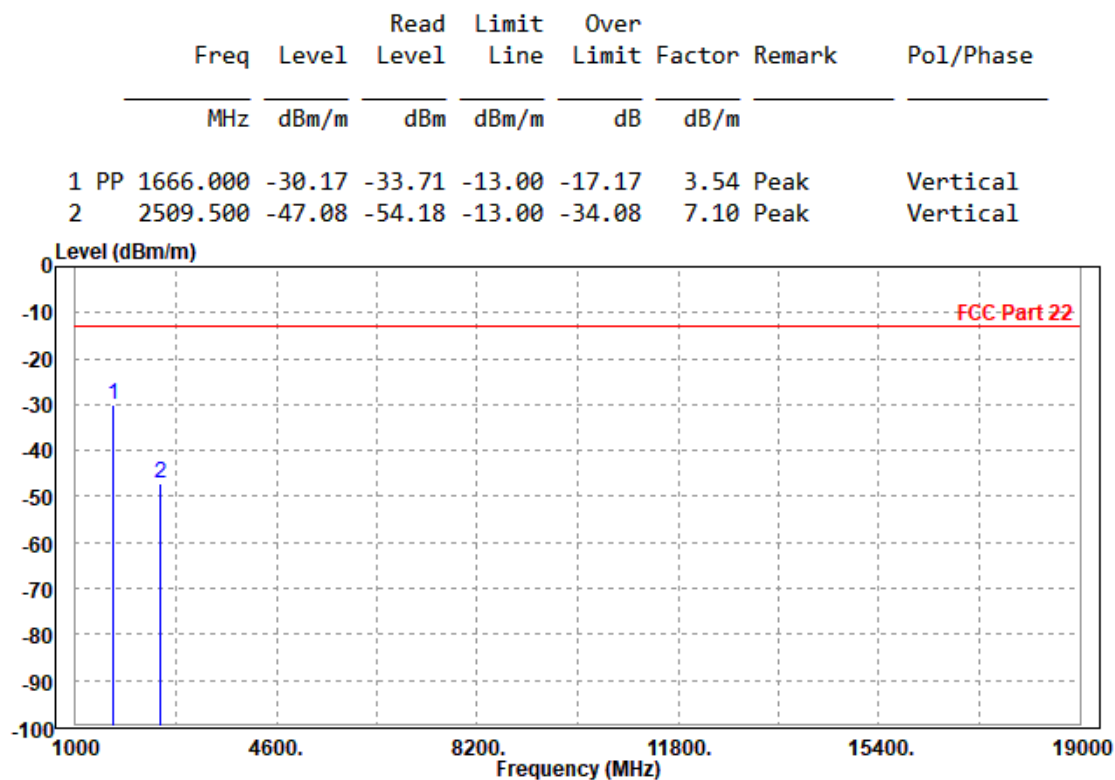
CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-30.73	-34.20	-13.00	-17.73	3.47	Peak	Horizontal
2	2509.500	-42.37	-50.43	-13.00	-29.37	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

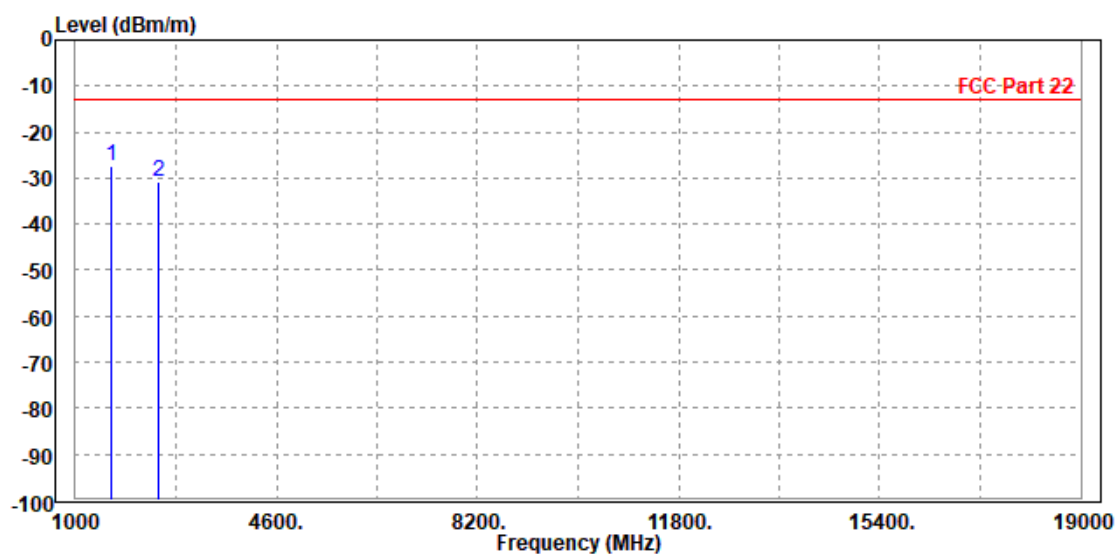


CHANNEL BANDWIDTH: 5MHz / QPSK

CH 20425

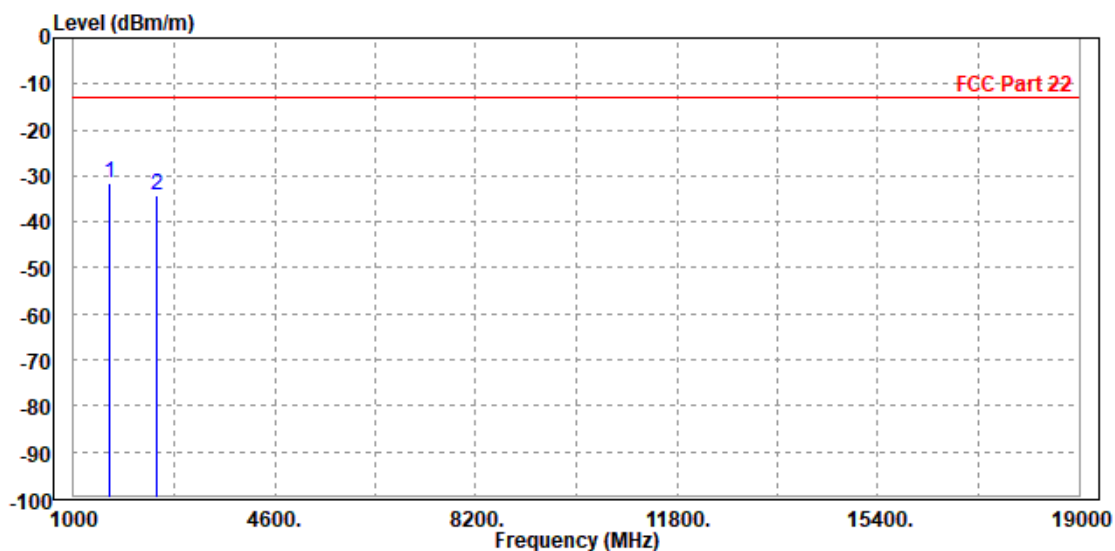
MODE	TX channel 20425	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1648.000	-27.49	-30.74	-13.00	-14.49	3.25	Peak	Horizontal
2		2476.000	-30.75	-38.78	-13.00	-17.75	8.03	Peak	Horizontal



MODE	TX channel 20425	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

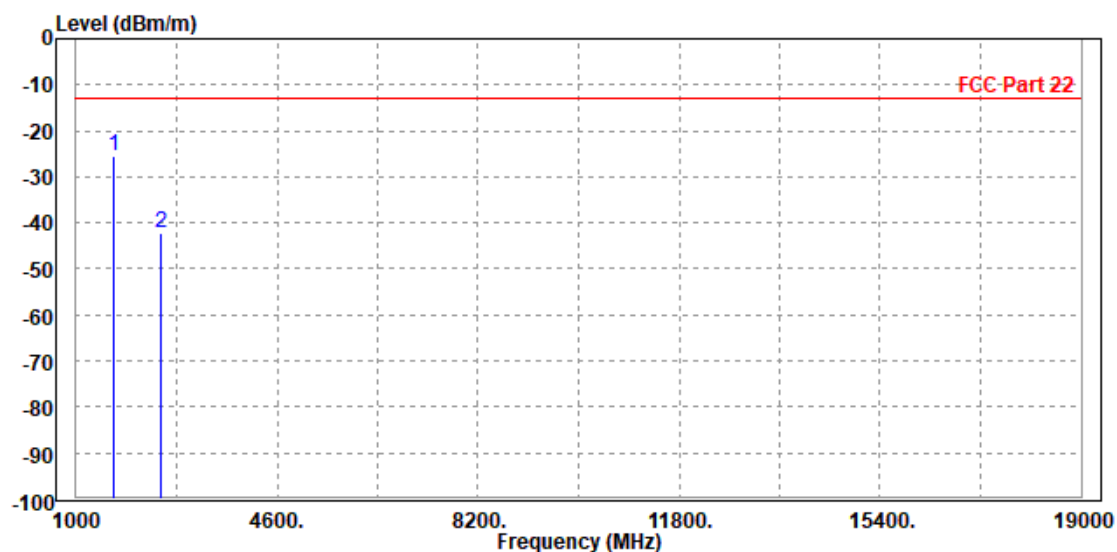
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1648.000	-31.74	-35.12	-13.00	-18.74	3.38	Peak	Vertical
2	2476.000	-34.37	-41.41	-13.00	-21.37	7.04	Peak	Vertical



CH 20525

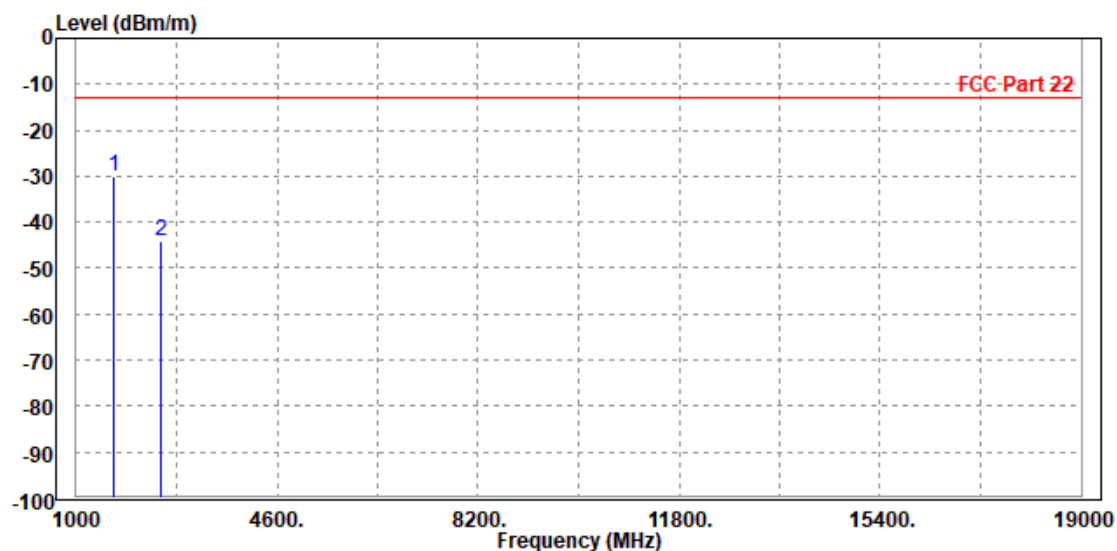
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1666.000	-25.38	-28.85	-13.00	-12.38	3.47	Peak	Horizontal
2		2509.500	-42.18	-50.24	-13.00	-29.18	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

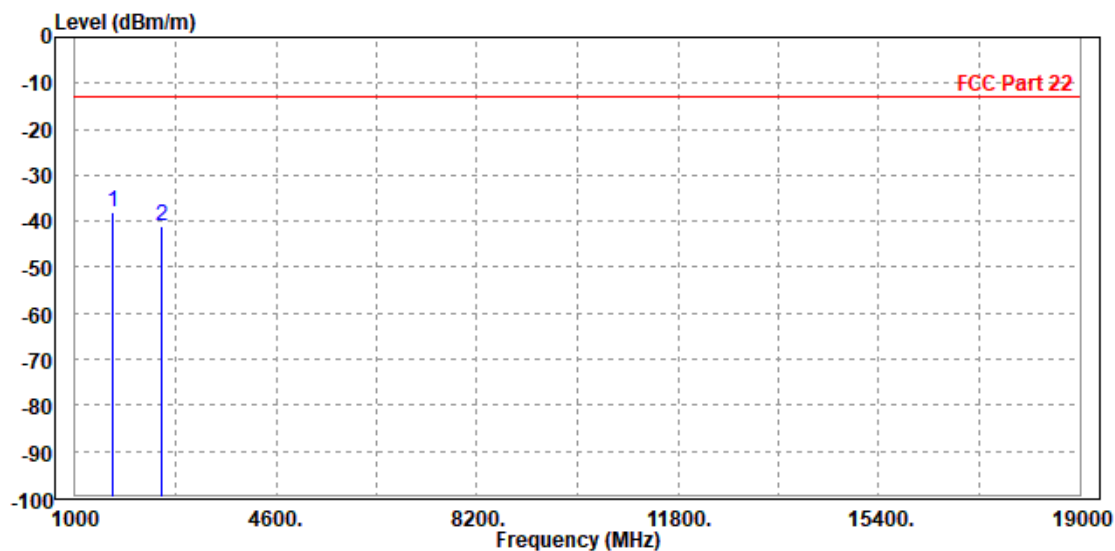
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-30.21	-33.75	-13.00	-17.21	3.54	Peak	Vertical
2	2509.500	-44.05	-51.15	-13.00	-31.05	7.10	Peak	Vertical



CH 20625

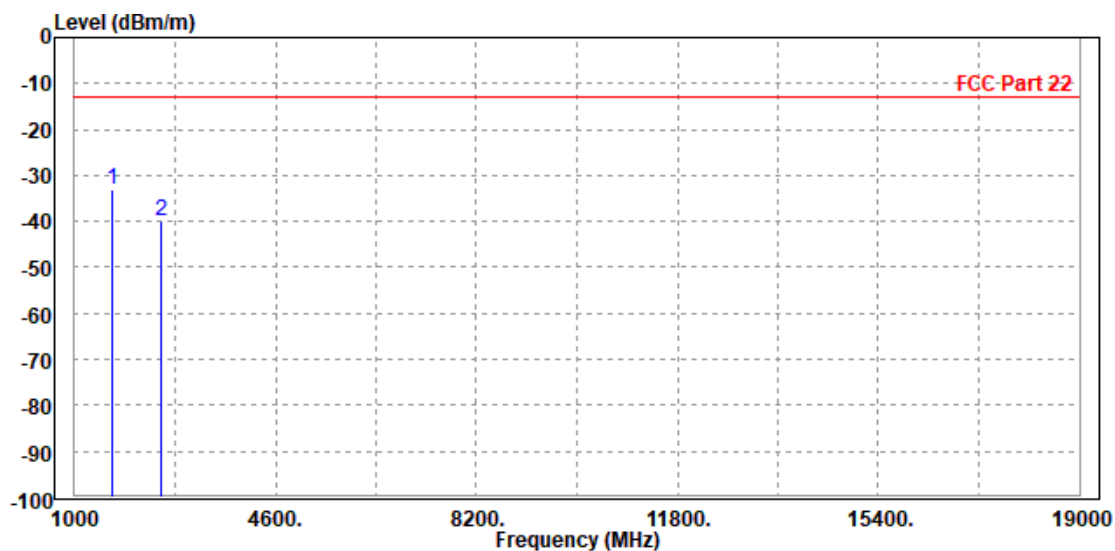
MODE	TX channel 20625	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1684.000	-38.07	-41.76	-13.00	-25.07	3.69	Peak	Horizontal
2		2539.500	-41.17	-49.27	-13.00	-28.17	8.10	Peak	Horizontal



MODE	TX channel 20625	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1684.000	-33.03	-36.74	-13.00	-20.03	3.71	Peak	Vertical
2		2539.500	-40.00	-47.20	-13.00	-27.00	7.20	Peak	Vertical





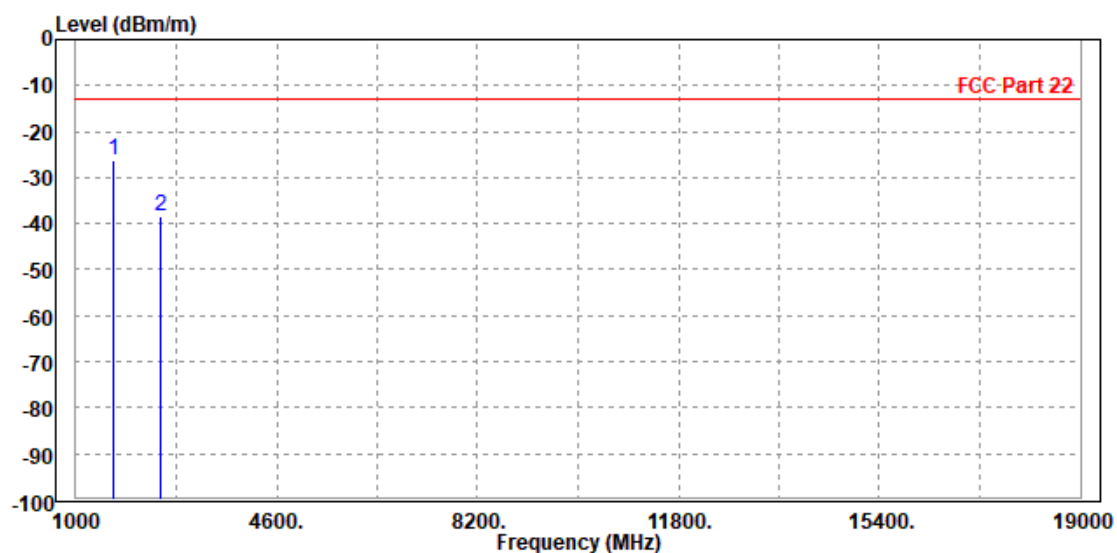
BUREAU
VERITAS

Test Report No.: W7L-P21100025RF04

CHANNEL BANDWIDTH: 10MHz / QPSK

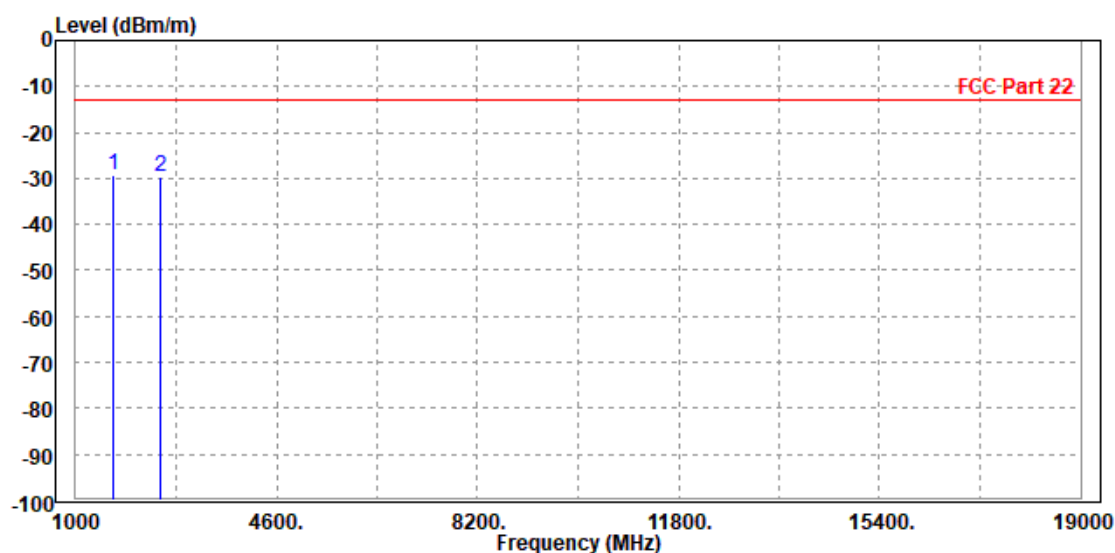
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1673.000	-26.32	-29.88	-13.00	-13.32	3.56	Peak	Horizontal
2	2512.000	-38.32	-46.38	-13.00	-25.32	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-29.41	-32.95	-13.00	-16.41	3.54	Peak	Vertical
2	2509.500	-29.63	-36.73	-13.00	-16.63	7.10	Peak	Vertical

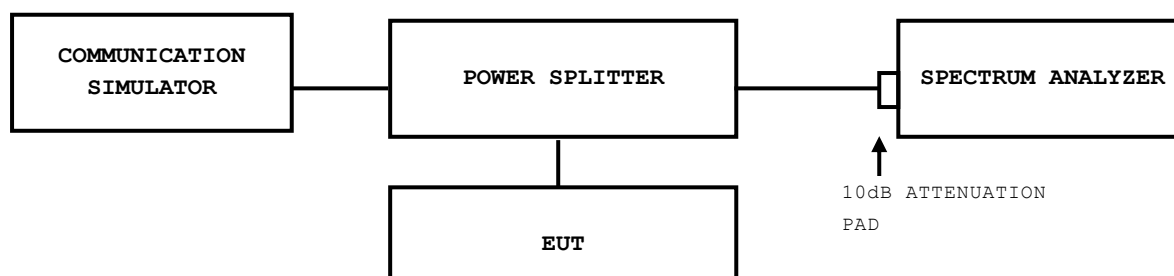


3.7 PEAK TO AVERAGE RATIO

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%.



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3.7.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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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.



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7 APPENDIX A



APPENDIX A : LTE Band5

Frequency Stability

B5_1.4MHz

Test Result

Band: 5 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	824.7	6	0	20	3.27	-8.07	-0.01	-2.5 to 2.5	Pass
					3.85	-4.33	-0.01	-2.5 to 2.5	Pass
					4.43	-3.78	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-9.07	-0.01	-2.5 to 2.5	Pass
				0	3.85	-5.69	-0.01	-2.5 to 2.5	Pass
				10	3.85	-2.77	-0.00	-2.5 to 2.5	Pass
				30	3.85	-0.83	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.25	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.59	-0.00	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	0.50	0.00	-2.5 to 2.5	Pass
					3.85	-9.47	-0.01	-2.5 to 2.5	Pass
					4.43	-7.91	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.78	-0.01	-2.5 to 2.5	Pass
				0	3.85	-5.11	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.05	-0.01	-2.5 to 2.5	Pass
				30	3.85	-4.92	-0.01	-2.5 to 2.5	Pass
				40	3.85	-5.62	-0.01	-2.5 to 2.5	Pass
				50	3.85	-7.34	-0.01	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-6.34	-0.01	-2.5 to 2.5	Pass
					3.85	-11.70	-0.01	-2.5 to 2.5	Pass
					4.43	-9.38	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-8.63	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.30	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.35	-0.01	-2.5 to 2.5	Pass
				30	3.85	-4.75	-0.01	-2.5 to 2.5	Pass
				40	3.85	-4.21	-0.01	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-2.98	-0.00	-2.5 to 2.5	Pass
					3.85	-4.76	-0.01	-2.5 to 2.5	Pass
					4.43	-4.05	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-6.78	-0.01	-2.5 to 2.5	Pass
				0	3.85	-5.94	-0.01	-2.5 to 2.5	Pass
				10	3.85	-2.07	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.55	-0.01	-2.5 to 2.5	Pass
				40	3.85	-8.61	-0.01	-2.5 to 2.5	Pass
				50	3.85	-6.79	-0.01	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-4.16	-0.01	-2.5 to 2.5	Pass
					3.85	-3.48	-0.00	-2.5 to 2.5	Pass
					4.43	-3.45	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-7.87	-0.01	-2.5 to 2.5	Pass
				0	3.85	-6.78	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.18	-0.01	-2.5 to 2.5	Pass
				30	3.85	-11.29	-0.01	-2.5 to 2.5	Pass



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	848.3	6	0	40	3.85	-10.61	-0.01	-2.5 to 2.5	Pass
				50	3.85	-5.68	-0.01	-2.5 to 2.5	Pass
				20	3.27	-6.98	-0.01	-2.5 to 2.5	Pass
					3.85	-5.08	-0.01	-2.5 to 2.5	Pass
					4.43	-4.31	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-8.33	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.85	-0.01	-2.5 to 2.5	Pass
				10	3.85	-10.19	-0.01	-2.5 to 2.5	Pass
				30	3.85	-8.94	-0.01	-2.5 to 2.5	Pass
				40	3.85	-8.28	-0.01	-2.5 to 2.5	Pass
64QAM	824.7	6	0	20	3.85	-4.03	-0.00	-2.5 to 2.5	Pass
					3.27	-2.75	-0.00	-2.5 to 2.5	Pass
					3.85	-2.15	-0.00	-2.5 to 2.5	Pass
				-10	4.43	-2.92	-0.00	-2.5 to 2.5	Pass
					3.85	-3.96	-0.00	-2.5 to 2.5	Pass
					3.85	-6.70	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.44	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.48	-0.01	-2.5 to 2.5	Pass
	836.5	6	0	40	3.85	-3.98	-0.00	-2.5 to 2.5	Pass
				50	3.85	-6.44	-0.01	-2.5 to 2.5	Pass
				20	3.27	-4.89	-0.01	-2.5 to 2.5	Pass
					3.85	-4.95	-0.01	-2.5 to 2.5	Pass
					4.43	-3.98	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-3.72	-0.00	-2.5 to 2.5	Pass
					3.85	-6.52	-0.01	-2.5 to 2.5	Pass
					3.85	-7.98	-0.01	-2.5 to 2.5	Pass
	848.3	6	0	30	3.85	-7.68	-0.01	-2.5 to 2.5	Pass
				40	3.85	-5.99	-0.01	-2.5 to 2.5	Pass
				50	3.85	-7.08	-0.01	-2.5 to 2.5	Pass
				20	3.27	-5.48	-0.01	-2.5 to 2.5	Pass
					3.85	-2.82	-0.00	-2.5 to 2.5	Pass
					4.43	-6.59	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-9.01	-0.01	-2.5 to 2.5	Pass
					3.85	-5.84	-0.01	-2.5 to 2.5	Pass
					3.85	-5.99	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.99	-0.01	-2.5 to 2.5	Pass
				30	3.85	-8.55	-0.01	-2.5 to 2.5	Pass
				40	3.85	-5.25	-0.01	-2.5 to 2.5	Pass
				50	3.85	-5.72	-0.01	-2.5 to 2.5	Pass

B5_3MHz

Test Result

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	825.5	15	0	20	3.27	-7.04	-0.01	-2.5 to 2.5	Pass
					3.85	-3.85	-0.00	-2.5 to 2.5	Pass
					4.43	-3.06	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.81	-0.00	-2.5 to 2.5	Pass
				0	3.85	-1.72	-0.00	-2.5 to 2.5	Pass
				10	3.85	-1.73	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.16	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.24	-0.01	-2.5 to 2.5	Pass



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				50	3.85	-2.60	-0.00	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-2.10	-0.00	-2.5 to 2.5	Pass
					3.85	-13.23	-0.02	-2.5 to 2.5	Pass
					4.43	-9.44	-0.01	-2.5 to 2.5	Pass
					-10	3.85	-6.57	-0.01	-2.5 to 2.5
				0	3.85	-4.79	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.27	-0.01	-2.5 to 2.5	Pass
				30	3.85	-6.85	-0.01	-2.5 to 2.5	Pass
				40	3.85	-6.89	-0.01	-2.5 to 2.5	Pass
	50	3.85	-5.87	-0.01	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-2.88	-0.00	-2.5 to 2.5	Pass
					3.85	-10.39	-0.01	-2.5 to 2.5	Pass
					4.43	-6.87	-0.01	-2.5 to 2.5	Pass
					-10	3.85	-5.16	-0.01	-2.5 to 2.5
				0	3.85	-4.26	-0.01	-2.5 to 2.5	Pass
				10	3.85	-3.59	-0.00	-2.5 to 2.5	Pass
30				3.85	-4.16	-0.00	-2.5 to 2.5	Pass	
40				3.85	-5.74	-0.01	-2.5 to 2.5	Pass	
50	3.85	-4.33	-0.01	-2.5 to 2.5	Pass				
16QAM	825.5	15	0	20	3.27	-5.81	-0.01	-2.5 to 2.5	Pass
					3.85	-4.25	-0.01	-2.5 to 2.5	Pass
					4.43	-6.74	-0.01	-2.5 to 2.5	Pass
					-10	3.85	-6.75	-0.01	-2.5 to 2.5
				0	3.85	-5.99	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.17	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.99	-0.01	-2.5 to 2.5	Pass
				40	3.85	-5.09	-0.01	-2.5 to 2.5	Pass
	50	3.85	-9.86	-0.01	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-4.88	-0.01	-2.5 to 2.5	Pass
					3.85	-6.62	-0.01	-2.5 to 2.5	Pass
					4.43	-8.53	-0.01	-2.5 to 2.5	Pass
					-10	3.85	-6.82	-0.01	-2.5 to 2.5
				0	3.85	-4.96	-0.01	-2.5 to 2.5	Pass
				10	3.85	-7.42	-0.01	-2.5 to 2.5	Pass
				30	3.85	-8.25	-0.01	-2.5 to 2.5	Pass
				40	3.85	-7.57	-0.01	-2.5 to 2.5	Pass
	50	3.85	-7.14	-0.01	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-4.18	-0.00	-2.5 to 2.5	Pass
					3.85	-3.71	-0.00	-2.5 to 2.5	Pass
					4.43	-2.50	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-3.89	-0.00	-2.5 to 2.5
				0	3.85	-5.42	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.88	-0.01	-2.5 to 2.5	Pass
30				3.85	-10.11	-0.01	-2.5 to 2.5	Pass	
40				3.85	-6.70	-0.01	-2.5 to 2.5	Pass	
50	3.85	-6.61	-0.01	-2.5 to 2.5	Pass				
64QAM	825.5	15	0	20	3.27	-8.51	-0.01	-2.5 to 2.5	Pass
					3.85	-6.64	-0.01	-2.5 to 2.5	Pass
					4.43	-3.46	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-3.45	-0.00	-2.5 to 2.5
				0	3.85	-5.68	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.43	-0.01	-2.5 to 2.5	Pass
				30	3.85	-9.43	-0.01	-2.5 to 2.5	Pass
				40	3.85	-6.98	-0.01	-2.5 to 2.5	Pass
	50	3.85	-5.74	-0.01	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-3.16	-0.00	-2.5 to 2.5	Pass



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					3.85	-5.58	-0.01	-2.5 to 2.5	Pass
					4.43	-4.33	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.54	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.78	-0.01	-2.5 to 2.5	Pass
				10	3.85	-3.40	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.40	0.00	-2.5 to 2.5	Pass
				40	3.85	-4.42	-0.01	-2.5 to 2.5	Pass
				50	3.85	-6.32	-0.01	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-6.85	-0.01	-2.5 to 2.5	Pass
					3.85	-5.26	-0.01	-2.5 to 2.5	Pass
				-10	4.43	-2.39	-0.00	-2.5 to 2.5	Pass
					3.85	-5.36	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.98	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.27	-0.01	-2.5 to 2.5	Pass
				30	3.85	-6.79	-0.01	-2.5 to 2.5	Pass
				40	3.85	-7.87	-0.01	-2.5 to 2.5	Pass
				50	3.85	-3.28	-0.00	-2.5 to 2.5	Pass

B5_5MHz

Test Result

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	3.27	-11.46	-0.01	-2.5 to 2.5	Pass
					3.85	-8.17	-0.01	-2.5 to 2.5	Pass
					4.43	-7.97	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.63	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.18	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.35	-0.01	-2.5 to 2.5	Pass
				30	3.85	-4.88	-0.01	-2.5 to 2.5	Pass
				40	3.85	-5.52	-0.01	-2.5 to 2.5	Pass
				50	3.85	-7.27	-0.01	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-7.01	-0.01	-2.5 to 2.5	Pass
					3.85	-9.05	-0.01	-2.5 to 2.5	Pass
					4.43	-4.29	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-6.37	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.21	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.21	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.04	-0.01	-2.5 to 2.5	Pass
				40	3.85	-6.08	-0.01	-2.5 to 2.5	Pass
				50	3.85	-7.83	-0.01	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-4.48	-0.01	-2.5 to 2.5	Pass
					3.85	-8.37	-0.01	-2.5 to 2.5	Pass
					4.43	-4.32	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-5.26	-0.01	-2.5 to 2.5	Pass
				0	3.85	-1.99	-0.00	-2.5 to 2.5	Pass
				10	3.85	-5.75	-0.01	-2.5 to 2.5	Pass
				30	3.85	-6.91	-0.01	-2.5 to 2.5	Pass
				40	3.85	-4.91	-0.01	-2.5 to 2.5	Pass
				50	3.85	-3.52	-0.00	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-5.85	-0.01	-2.5 to 2.5	Pass
					3.85	-6.18	-0.01	-2.5 to 2.5	Pass



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					4.43	-11.41	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-6.27	-0.01	-2.5 to 2.5	Pass
				0	3.85	-10.09	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.88	-0.01	-2.5 to 2.5	Pass
				30	3.85	-3.73	-0.00	-2.5 to 2.5	Pass
				40	3.85	-6.04	-0.01	-2.5 to 2.5	Pass
				50	3.85	-5.87	-0.01	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-5.79	-0.01	-2.5 to 2.5	Pass
					3.85	-5.88	-0.01	-2.5 to 2.5	Pass
					4.43	-2.12	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-7.08	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.40	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.36	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.99	-0.01	-2.5 to 2.5	Pass
	40	3.85	-5.46	-0.01	-2.5 to 2.5	Pass			
	50	3.85	-4.68	-0.01	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.27	-7.20	-0.01	-2.5 to 2.5	Pass
					3.85	-4.61	-0.01	-2.5 to 2.5	Pass
					4.43	-6.88	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.29	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.88	-0.01	-2.5 to 2.5	Pass
				10	3.85	-4.52	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.57	-0.01	-2.5 to 2.5	Pass
40	3.85	-7.04	-0.01	-2.5 to 2.5	Pass				
50	3.85	-7.40	-0.01	-2.5 to 2.5	Pass				
64QAM	826.5	25	0	20	3.27	-6.27	-0.01	-2.5 to 2.5	Pass
					3.85	-4.92	-0.01	-2.5 to 2.5	Pass
					4.43	-4.42	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-3.89	-0.00	-2.5 to 2.5	Pass
				0	3.85	-4.02	-0.00	-2.5 to 2.5	Pass
				10	3.85	-8.38	-0.01	-2.5 to 2.5	Pass
				30	3.85	-9.37	-0.01	-2.5 to 2.5	Pass
	40	3.85	-7.11	-0.01	-2.5 to 2.5	Pass			
	50	3.85	-4.45	-0.01	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.27	-2.70	-0.00	-2.5 to 2.5	Pass
					3.85	-6.04	-0.01	-2.5 to 2.5	Pass
					4.43	-4.72	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-6.72	-0.01	-2.5 to 2.5	Pass
				0	3.85	-5.82	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.98	-0.01	-2.5 to 2.5	Pass
				30	3.85	-6.68	-0.01	-2.5 to 2.5	Pass
	40	3.85	-7.20	-0.01	-2.5 to 2.5	Pass			
	50	3.85	-4.65	-0.01	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.27	-9.46	-0.01	-2.5 to 2.5	Pass
					3.85	-6.14	-0.01	-2.5 to 2.5	Pass
					4.43	-5.79	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-3.62	-0.00	-2.5 to 2.5	Pass
				0	3.85	-6.34	-0.01	-2.5 to 2.5	Pass
10				3.85	-4.00	-0.00	-2.5 to 2.5	Pass	
30				3.85	-5.01	-0.01	-2.5 to 2.5	Pass	
40	3.85	-6.27	-0.01	-2.5 to 2.5	Pass				
50	3.85	-6.29	-0.01	-2.5 to 2.5	Pass				



Report No.: W7L-P21100025RF04

B5_10MHz

Test Result

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	3.27	-8.12	-0.01	-2.5 to 2.5	Pass
					3.85	-7.15	-0.01	-2.5 to 2.5	Pass
					4.43	-7.47	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-7.50	-0.01	-2.5 to 2.5	Pass
				0	3.85	-6.15	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.35	-0.01	-2.5 to 2.5	Pass
				30	3.85	-7.34	-0.01	-2.5 to 2.5	Pass
				40	3.85	-7.22	-0.01	-2.5 to 2.5	Pass
				50	3.85	-7.57	-0.01	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-6.27	-0.01	-2.5 to 2.5	Pass
					3.85	-6.71	-0.01	-2.5 to 2.5	Pass
					4.43	-5.29	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-6.19	-0.01	-2.5 to 2.5	Pass
				0	3.85	-7.78	-0.01	-2.5 to 2.5	Pass
				10	3.85	-5.44	-0.01	-2.5 to 2.5	Pass
				30	3.85	-4.88	-0.01	-2.5 to 2.5	Pass
				40	3.85	-4.68	-0.01	-2.5 to 2.5	Pass
				50	3.85	-3.92	-0.00	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-6.84	-0.01	-2.5 to 2.5	Pass
					3.85	-5.21	-0.01	-2.5 to 2.5	Pass
					4.43	-6.34	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-7.94	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.78	-0.01	-2.5 to 2.5	Pass
				10	3.85	-6.57	-0.01	-2.5 to 2.5	Pass
				30	3.85	-5.74	-0.01	-2.5 to 2.5	Pass
				40	3.85	-6.79	-0.01	-2.5 to 2.5	Pass
				50	3.85	-6.14	-0.01	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-9.04	-0.01	-2.5 to 2.5	Pass
					3.85	-7.27	-0.01	-2.5 to 2.5	Pass
					4.43	-8.90	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-7.00	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.85	-0.01	-2.5 to 2.5	Pass
				10	3.85	-8.27	-0.01	-2.5 to 2.5	Pass
				30	3.85	-8.65	-0.01	-2.5 to 2.5	Pass
				40	3.85	-9.28	-0.01	-2.5 to 2.5	Pass
				50	3.85	-10.47	-0.01	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-7.67	-0.01	-2.5 to 2.5	Pass
					3.85	-4.43	-0.01	-2.5 to 2.5	Pass
					4.43	-7.80	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.55	-0.01	-2.5 to 2.5	Pass
				0	3.85	-3.56	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.85	-0.01	-2.5 to 2.5	Pass
				30	3.85	-7.72	-0.01	-2.5 to 2.5	Pass
				40	3.85	-8.30	-0.01	-2.5 to 2.5	Pass
				50	3.85	-8.60	-0.01	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-7.52	-0.01	-2.5 to 2.5	Pass



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64QAM					3.85	-5.79	-0.01	-2.5 to 2.5	Pass
					4.43	-7.35	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-7.68	-0.01	-2.5 to 2.5	Pass
				0	3.85	-4.22	-0.01	-2.5 to 2.5	Pass
				10	3.85	-3.59	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.43	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.78	-0.00	-2.5 to 2.5	Pass
				50	3.85	-4.54	-0.01	-2.5 to 2.5	Pass
	829	50	0	20	3.27	-7.25	-0.01	-2.5 to 2.5	Pass
					3.85	-6.18	-0.01	-2.5 to 2.5	Pass
					4.43	-6.51	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-6.27	-0.01	-2.5 to 2.5	Pass
				0	3.85	-6.12	-0.01	-2.5 to 2.5	Pass
				10	3.85	-3.48	-0.00	-2.5 to 2.5	Pass
				30	3.85	-8.44	-0.01	-2.5 to 2.5	Pass
				40	3.85	-8.25	-0.01	-2.5 to 2.5	Pass
				50	3.85	-6.64	-0.01	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-7.88	-0.01	-2.5 to 2.5	Pass
					3.85	-5.45	-0.01	-2.5 to 2.5	Pass
					4.43	-5.79	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-3.83	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.72	-0.01	-2.5 to 2.5	Pass
				10	3.85	-4.82	-0.01	-2.5 to 2.5	Pass
				30	3.85	-7.97	-0.01	-2.5 to 2.5	Pass
				40	3.85	-7.51	-0.01	-2.5 to 2.5	Pass
				50	3.85	-5.71	-0.01	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-4.42	-0.01	-2.5 to 2.5	Pass
					3.85	-7.04	-0.01	-2.5 to 2.5	Pass
					4.43	-7.12	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-4.95	-0.01	-2.5 to 2.5	Pass
				0	3.85	-5.48	-0.01	-2.5 to 2.5	Pass
				10	3.85	-7.54	-0.01	-2.5 to 2.5	Pass
				30	3.85	-6.15	-0.01	-2.5 to 2.5	Pass
				40	3.85	-3.39	-0.00	-2.5 to 2.5	Pass
				50	3.85	-6.67	-0.01	-2.5 to 2.5	Pass



99% & 26dB Bandwidth

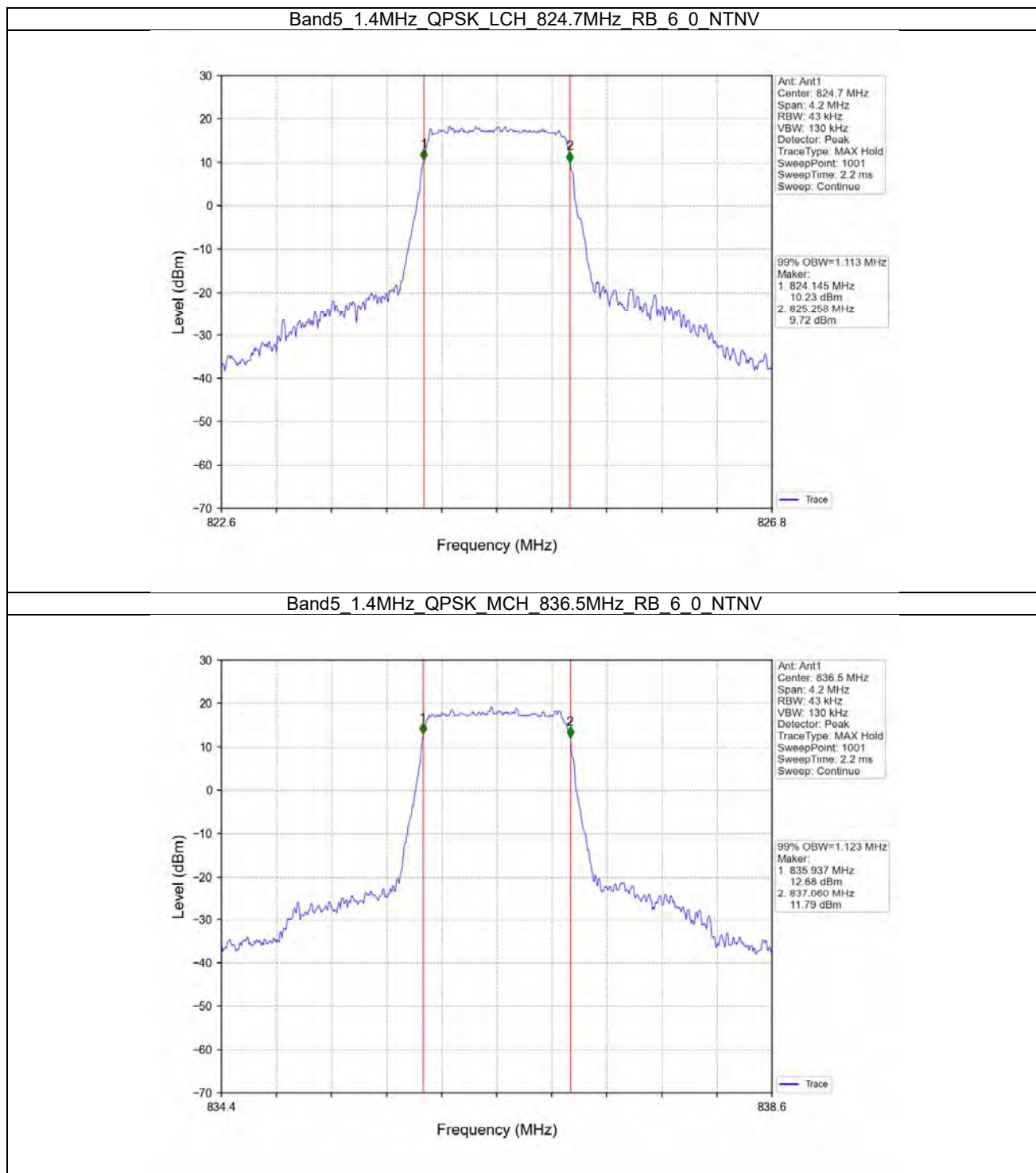
Band5_OBW

Test Result

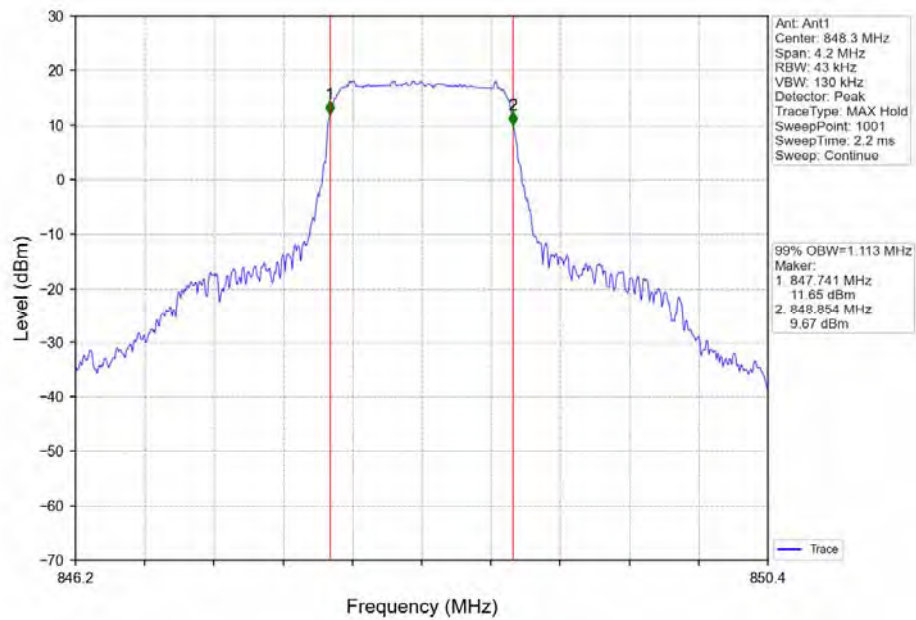
Band: 5 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.113	Pass
		836.5	6	0	1.123	Pass
		848.3	6	0	1.113	Pass
	16QAM	824.7	6	0	1.101	Pass
		836.5	6	0	1.105	Pass
		848.3	6	0	1.114	Pass
	64QAM	824.7	6	0	1.124	Pass
		836.5	6	0	1.108	Pass
		848.3	6	0	1.113	Pass
3	QPSK	825.5	15	0	2.729	Pass
		836.5	15	0	2.731	Pass
		847.5	15	0	2.727	Pass
	16QAM	825.5	15	0	2.728	Pass
		836.5	15	0	2.711	Pass
		847.5	15	0	2.719	Pass
	64QAM	825.5	15	0	2.735	Pass
		836.5	15	0	2.716	Pass
		847.5	15	0	2.741	Pass
5	QPSK	826.5	25	0	4.544	Pass
		836.5	25	0	4.547	Pass
		846.5	25	0	4.539	Pass
	16QAM	826.5	25	0	4.531	Pass
		836.5	25	0	4.558	Pass
		846.5	25	0	4.552	Pass
	64QAM	826.5	25	0	4.530	Pass
		836.5	25	0	4.550	Pass
		846.5	25	0	4.540	Pass
10	QPSK	829	50	0	9.060	Pass
		836.5	50	0	9.056	Pass
		844	50	0	9.055	Pass
	16QAM	829	50	0	9.088	Pass
		836.5	50	0	9.053	Pass
		844	50	0	9.051	Pass
	64QAM	829	50	0	9.059	Pass
		836.5	50	0	9.040	Pass
		844	50	0	9.077	Pass



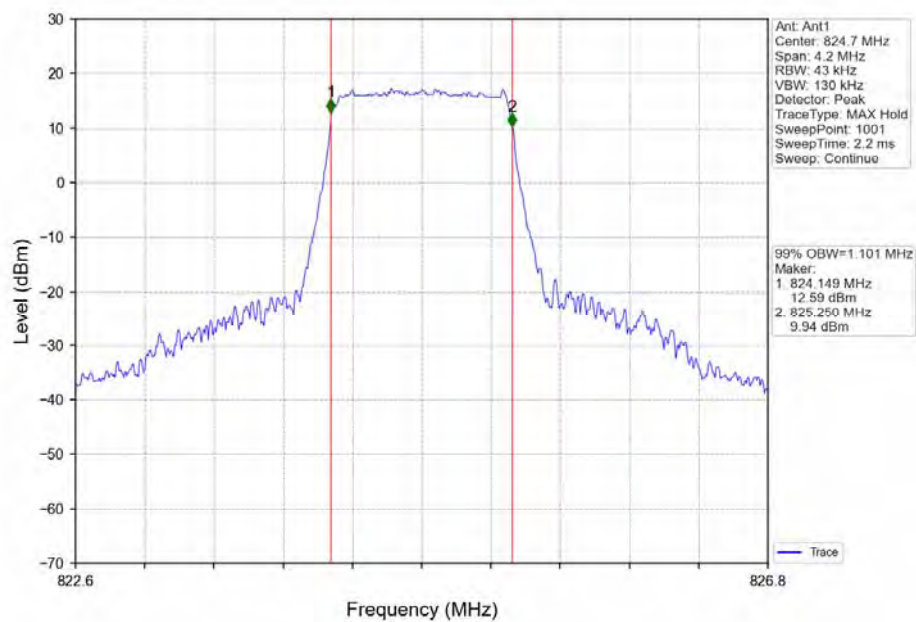
Test Graph



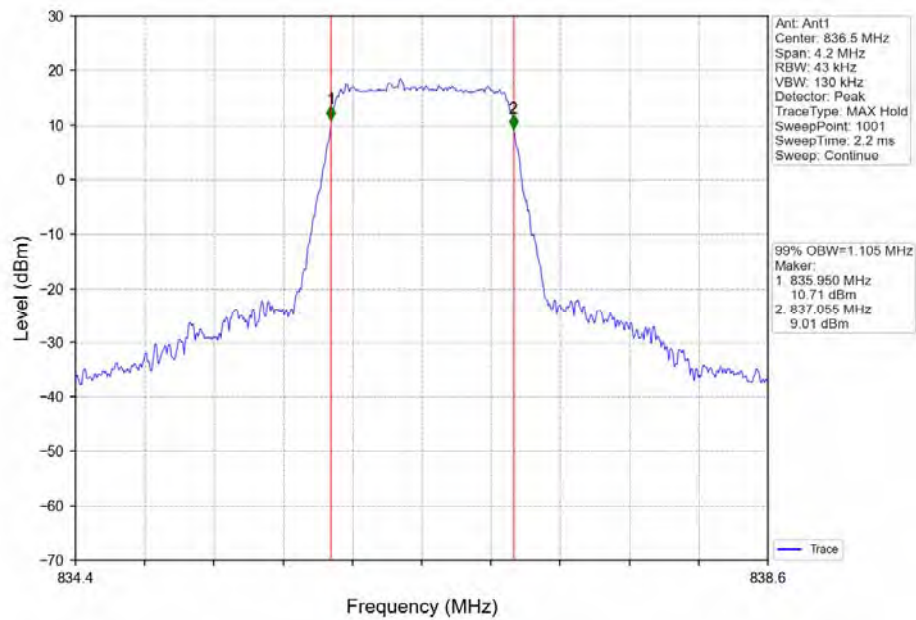
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



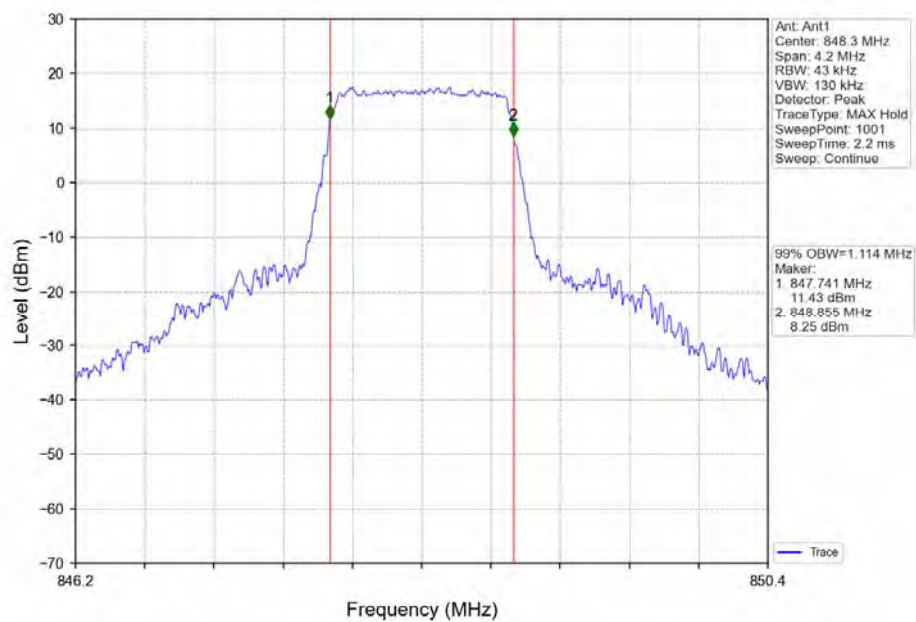
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



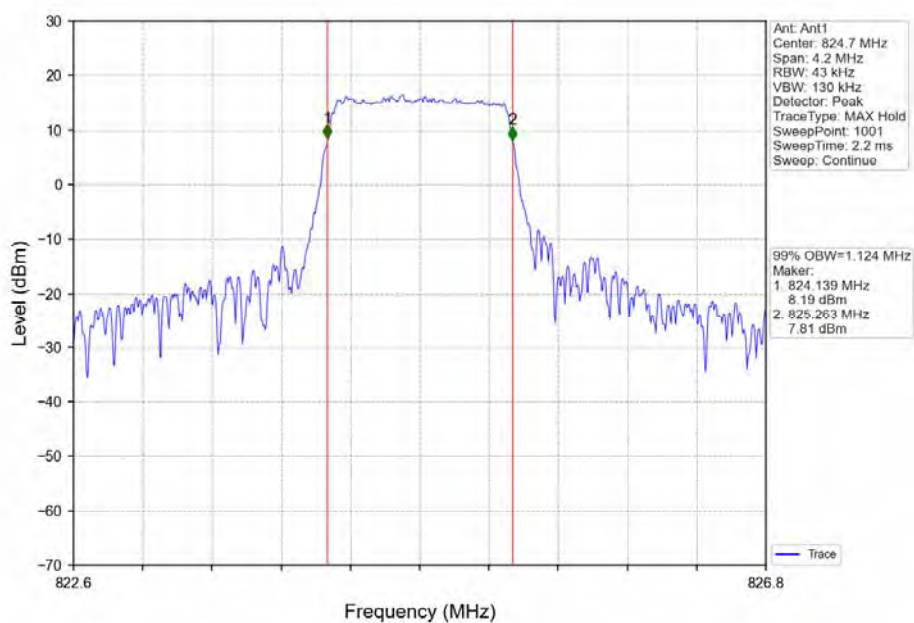
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



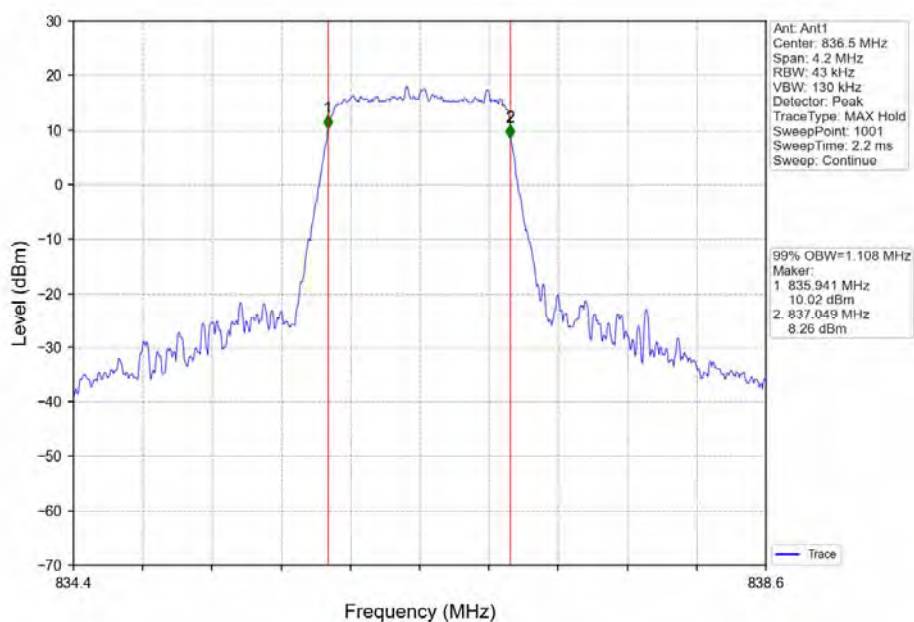
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



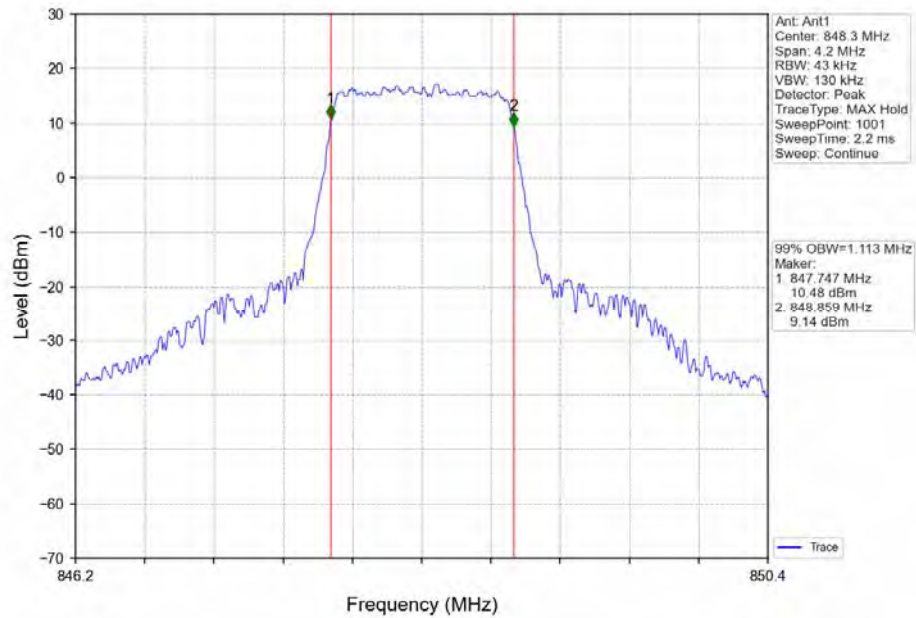
Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



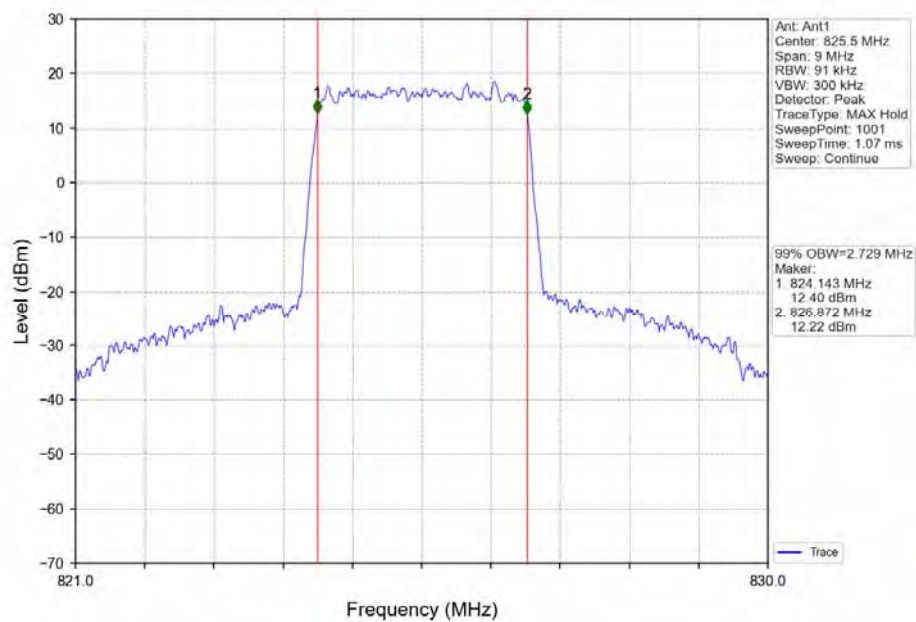
Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



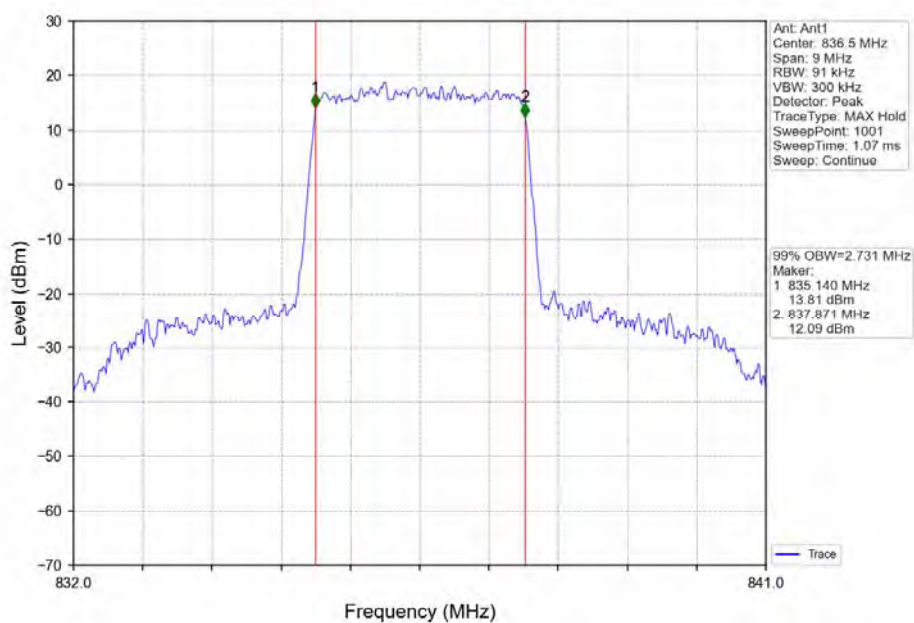
Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



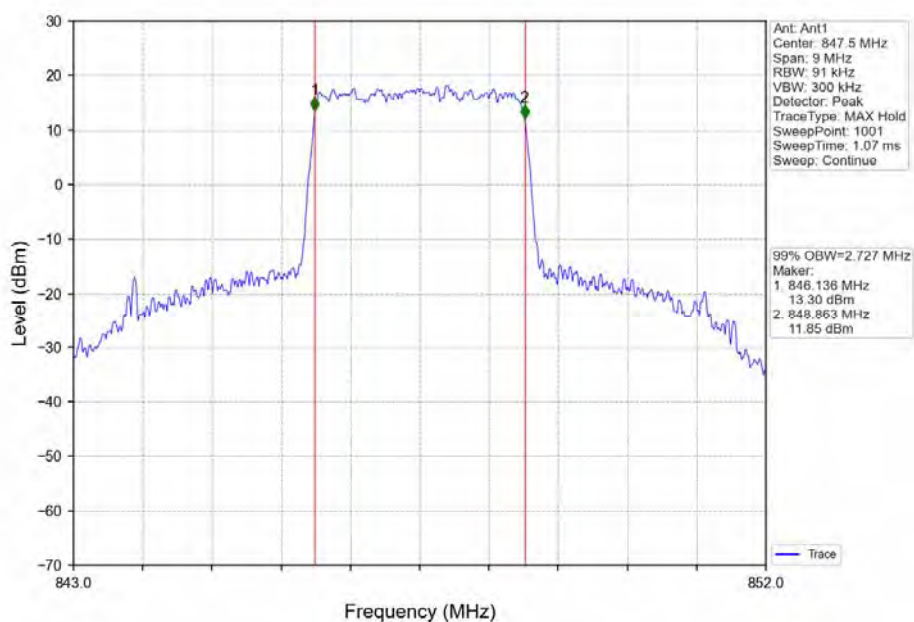
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



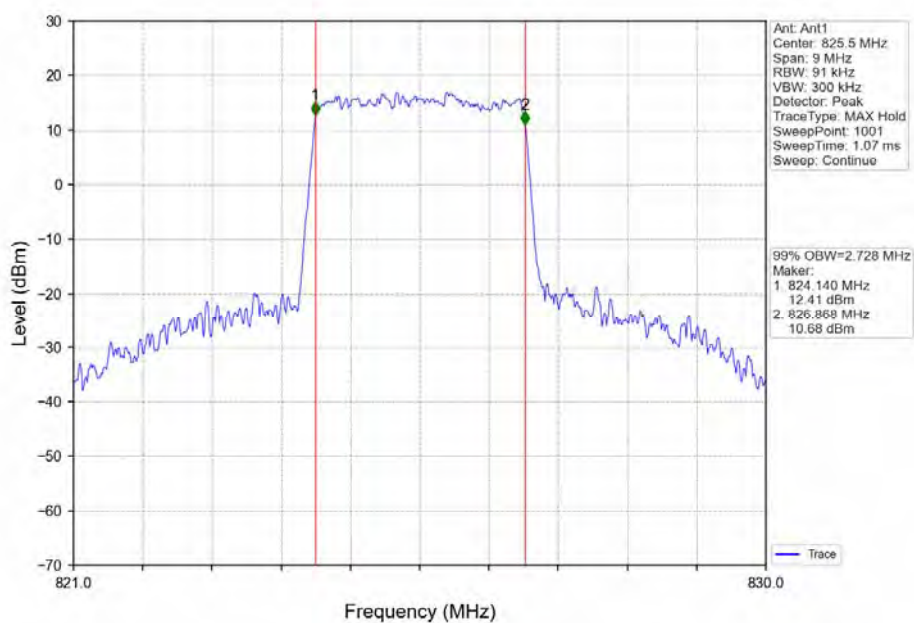
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



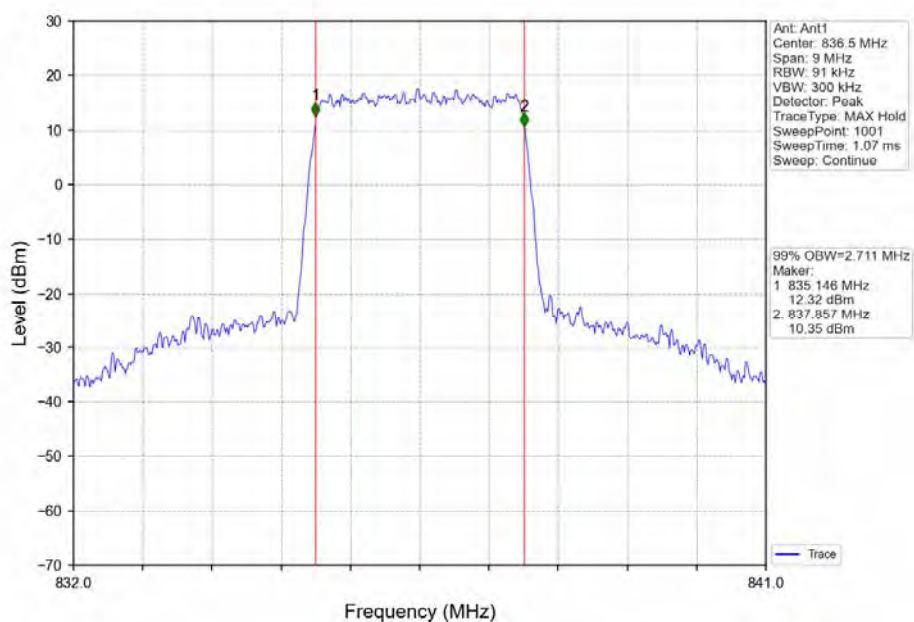
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



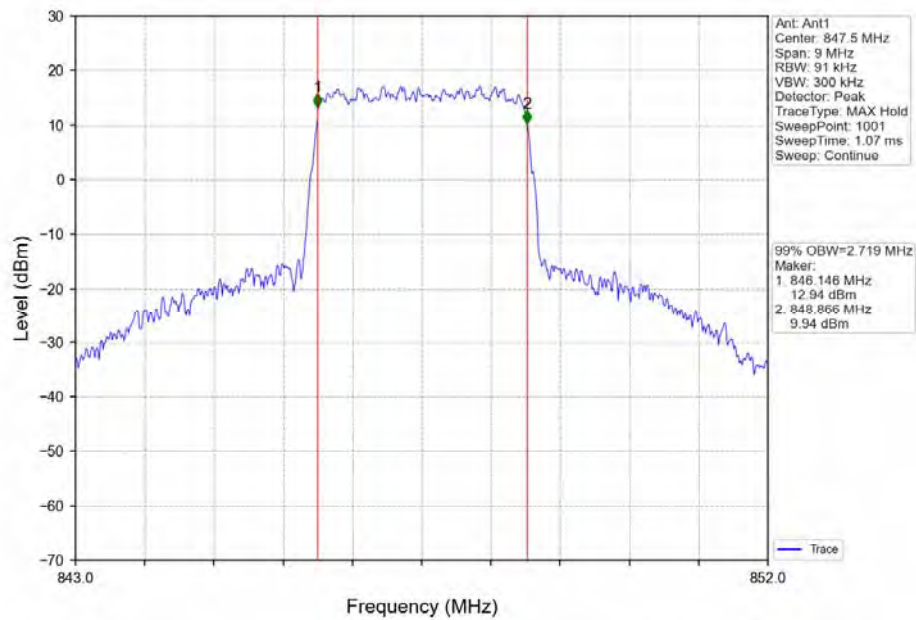
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



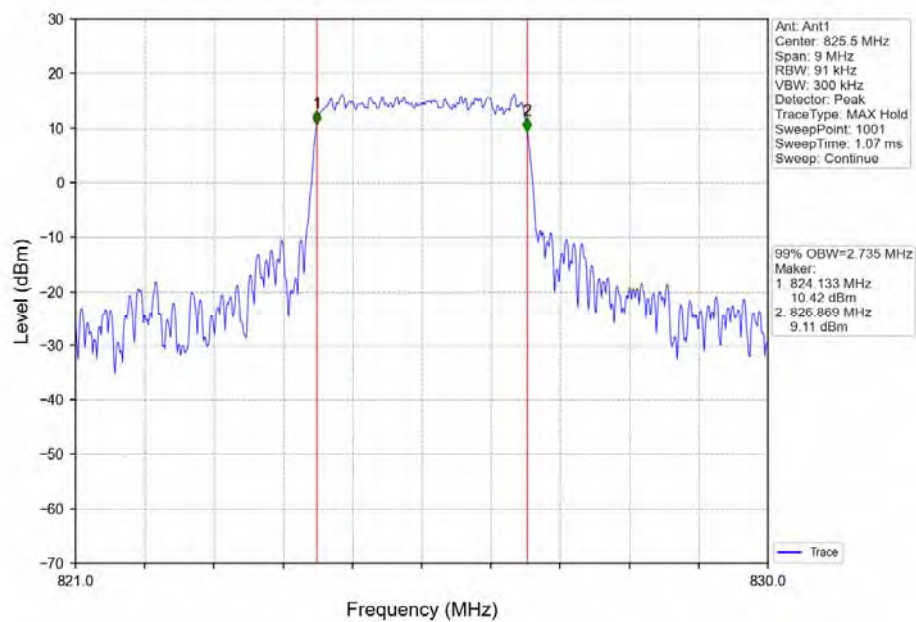
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



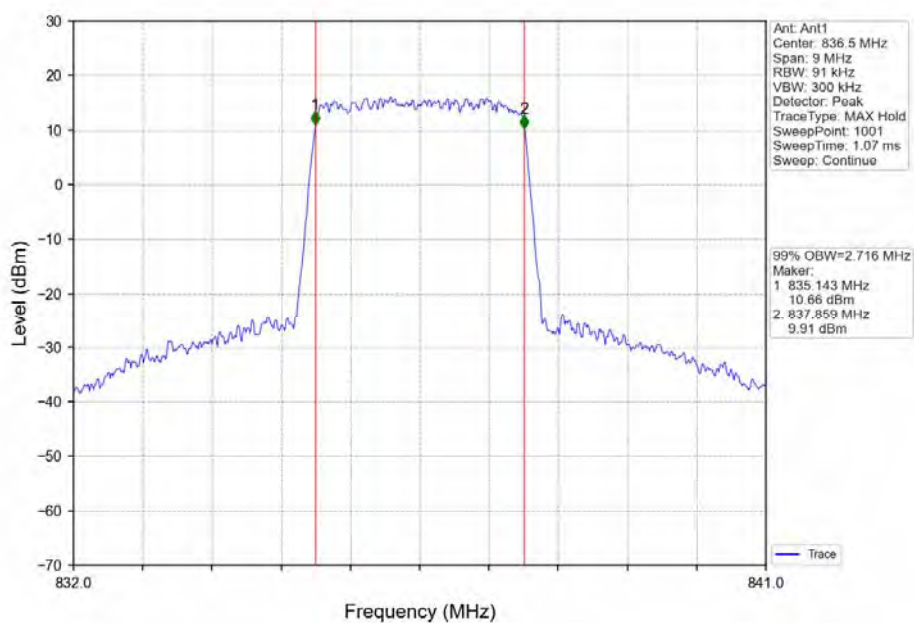
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



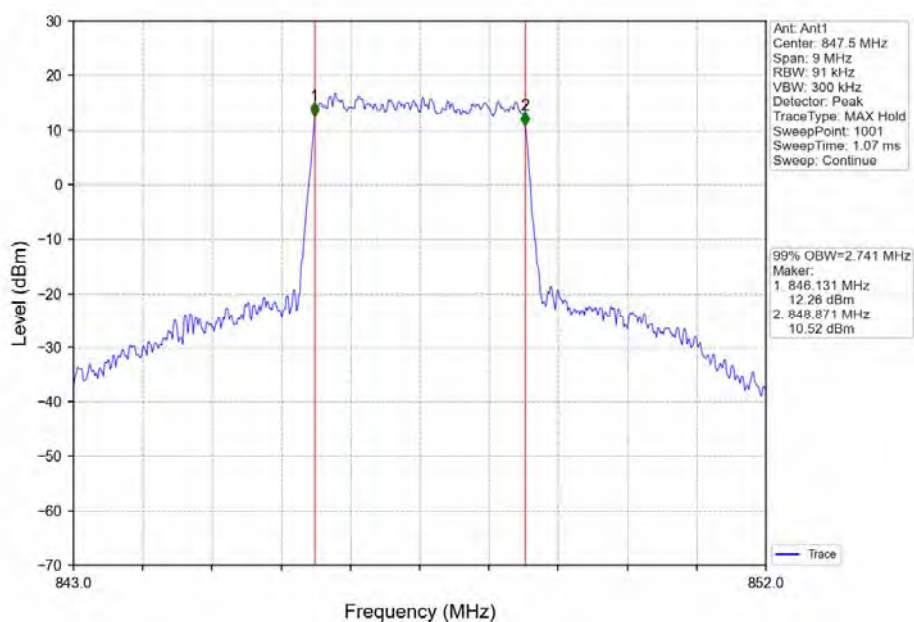
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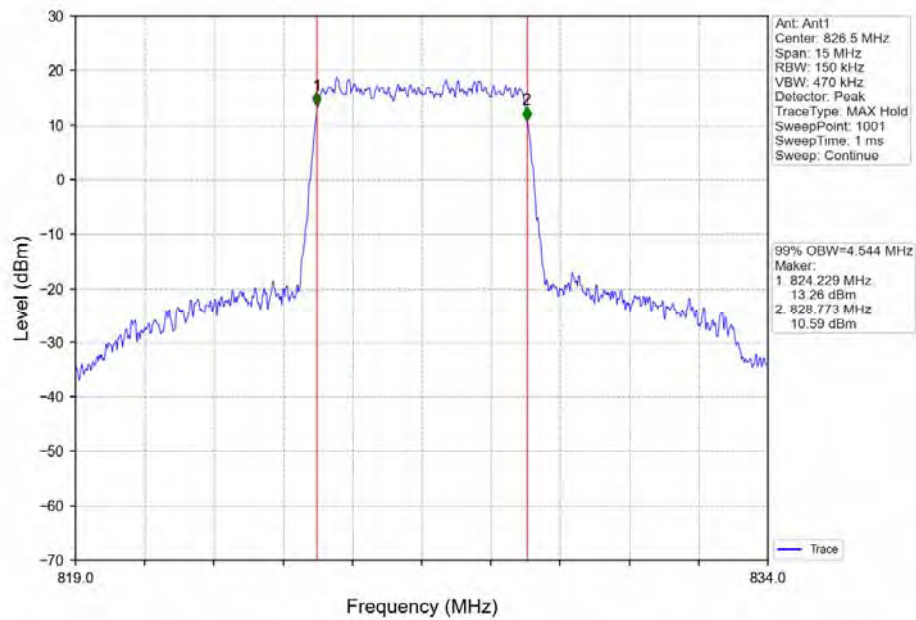
Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV



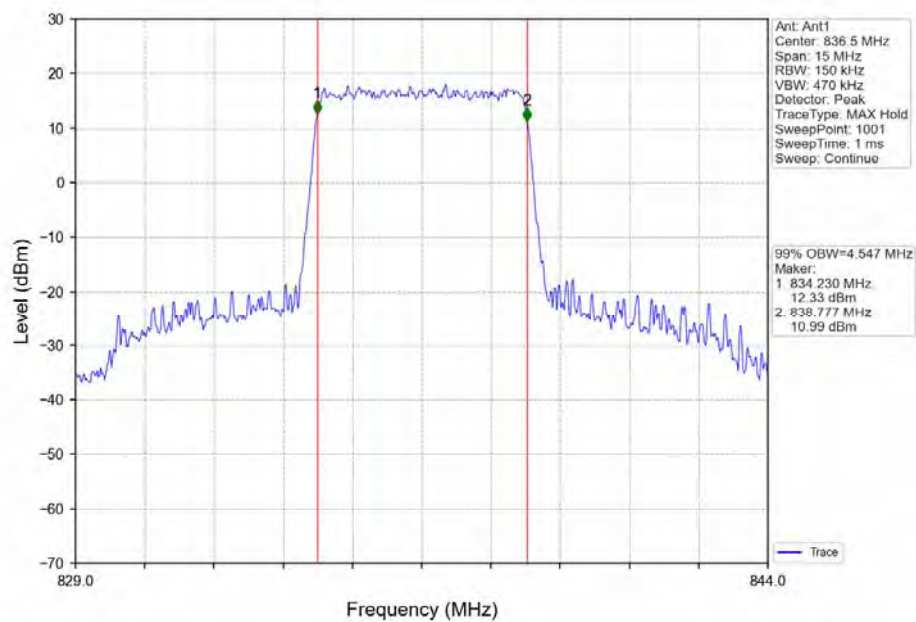
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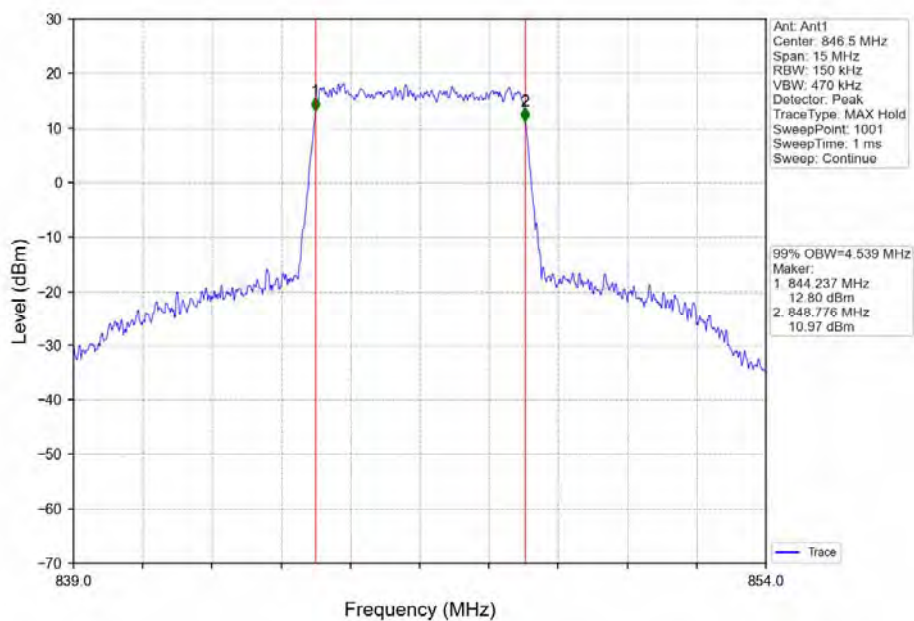
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



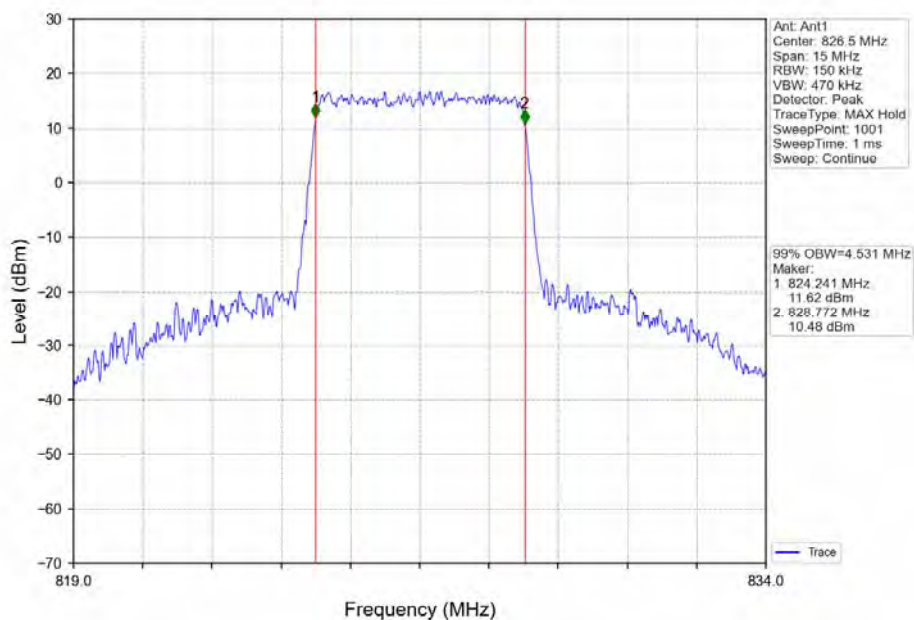
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



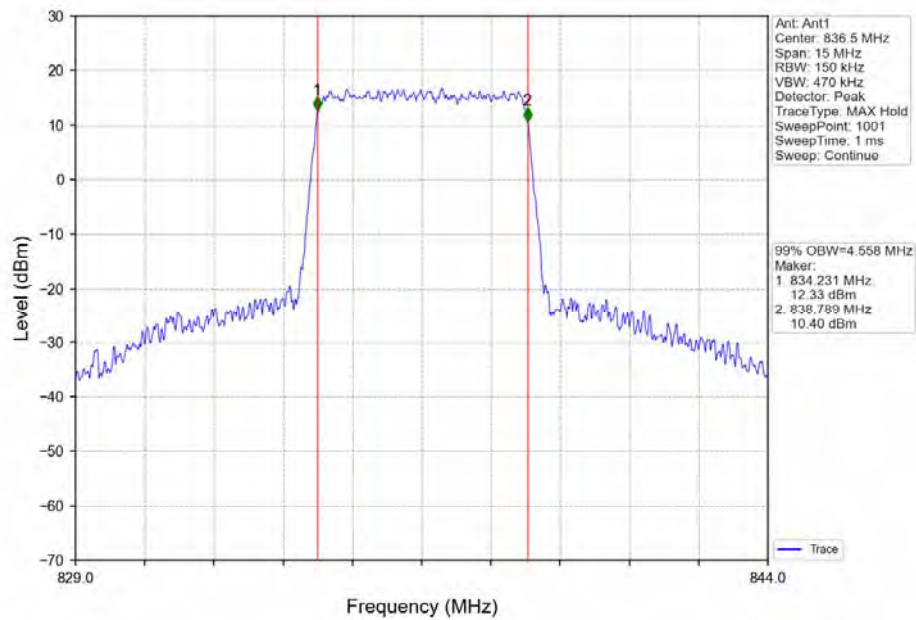
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



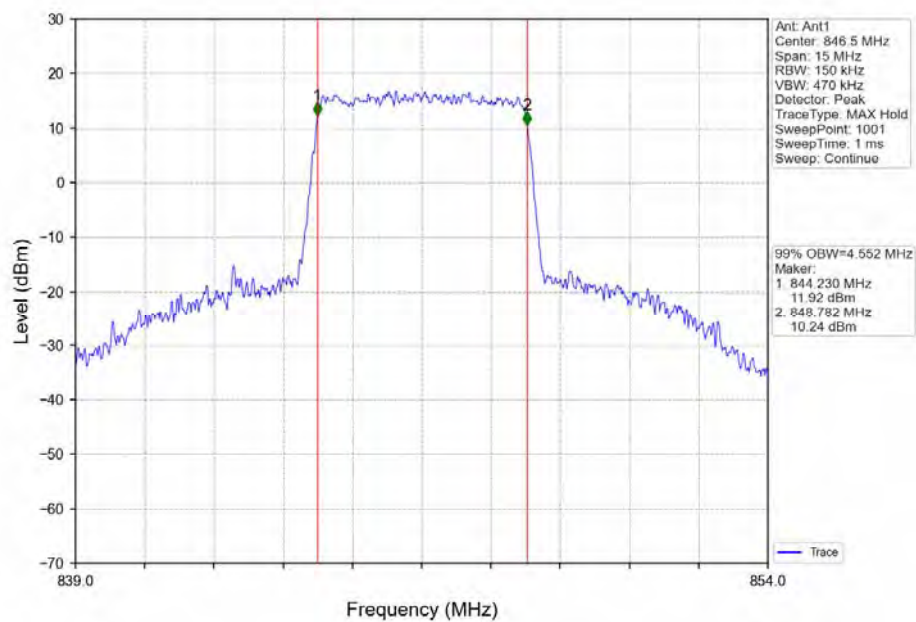
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



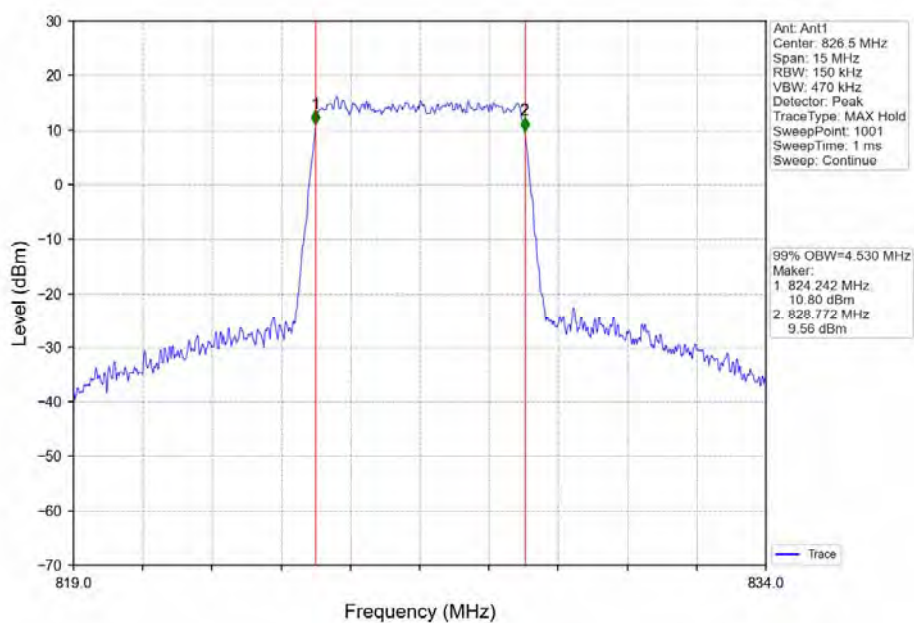
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



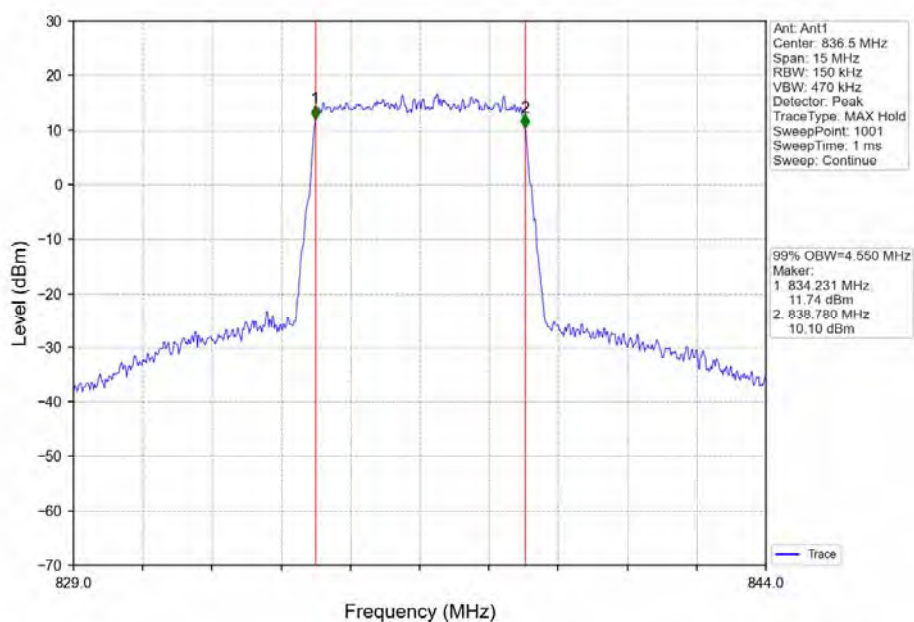
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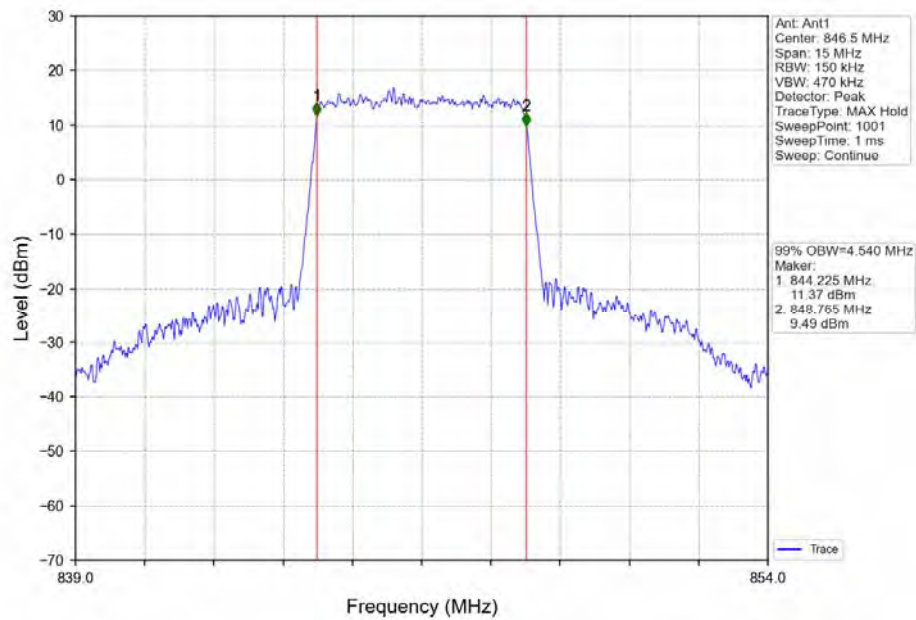
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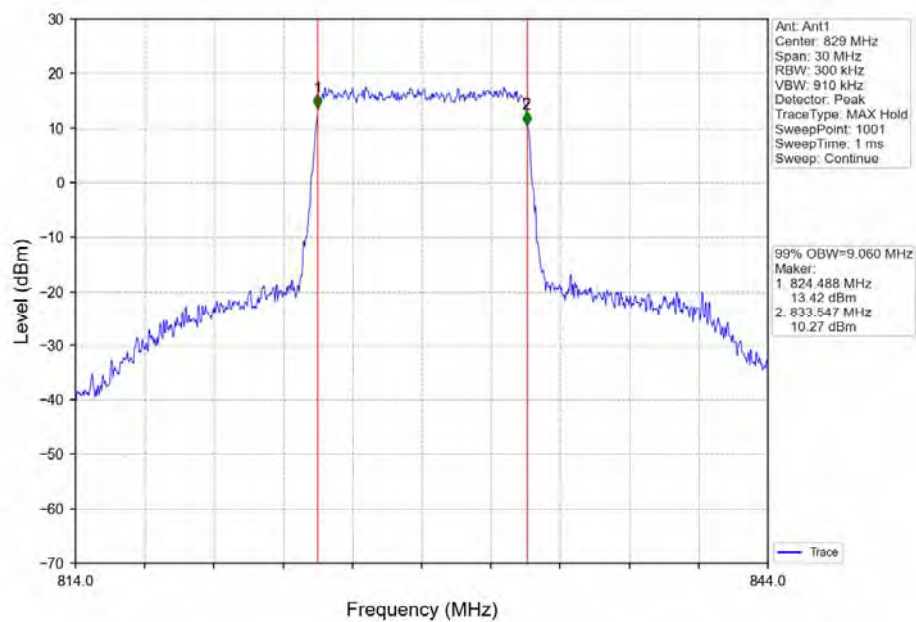
Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



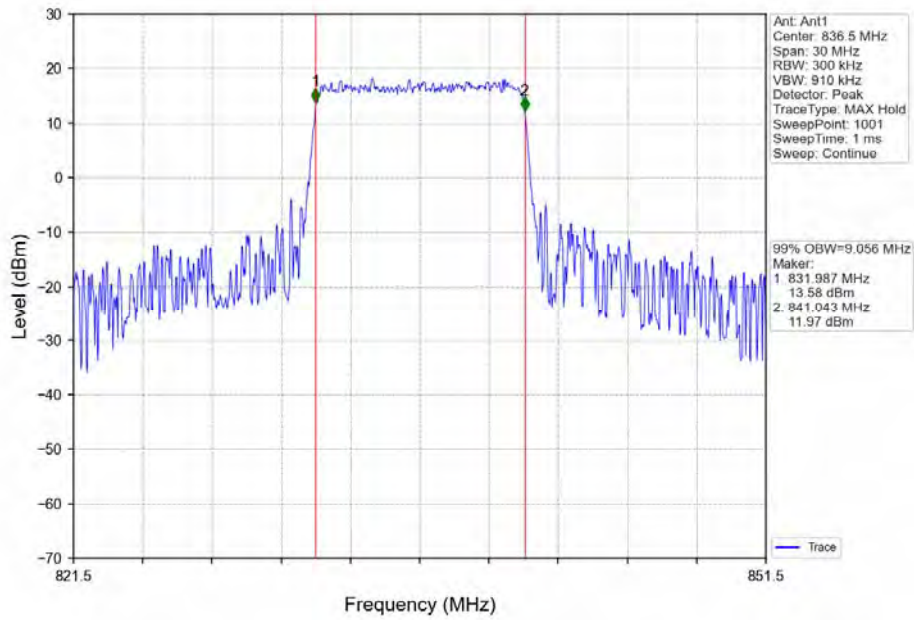
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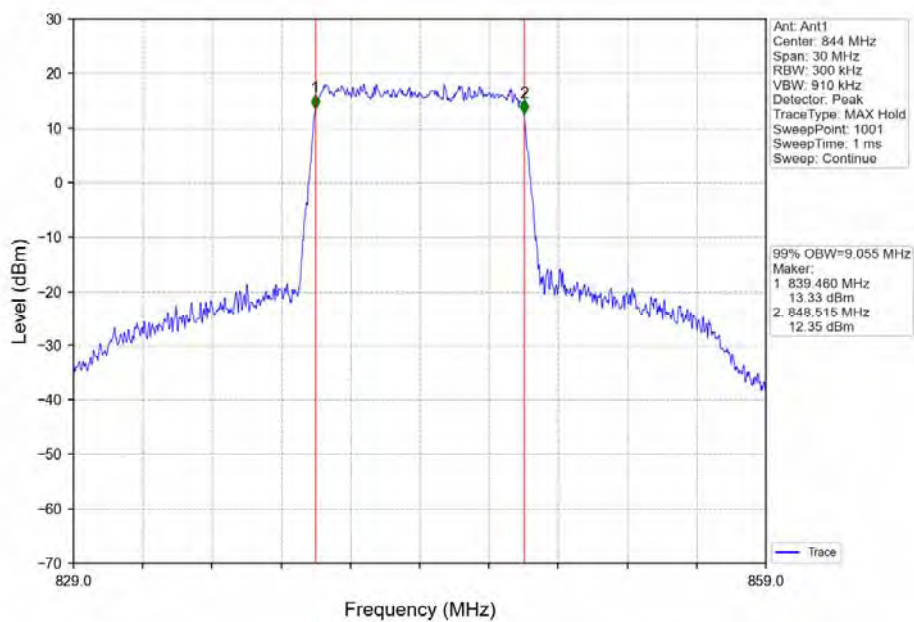
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



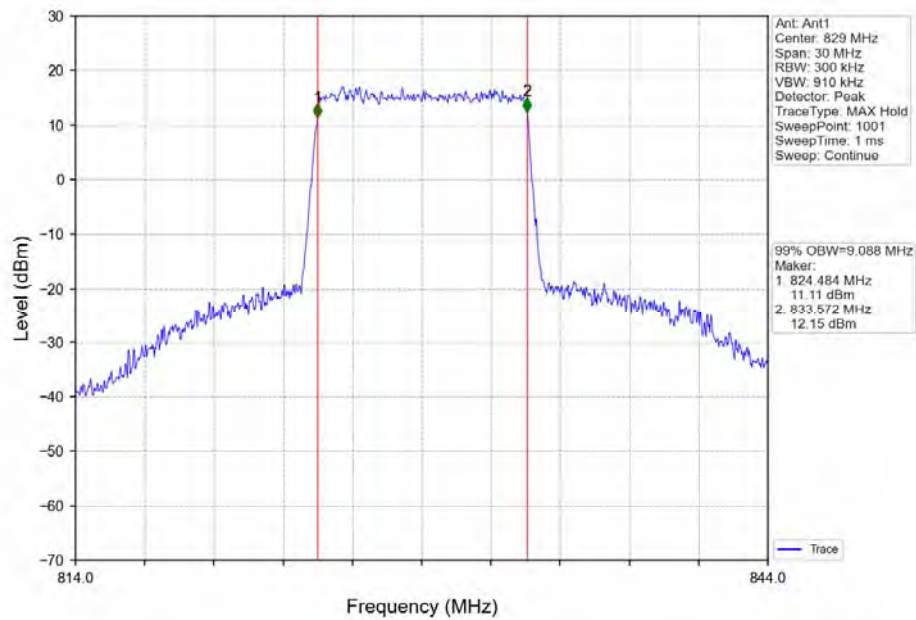
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



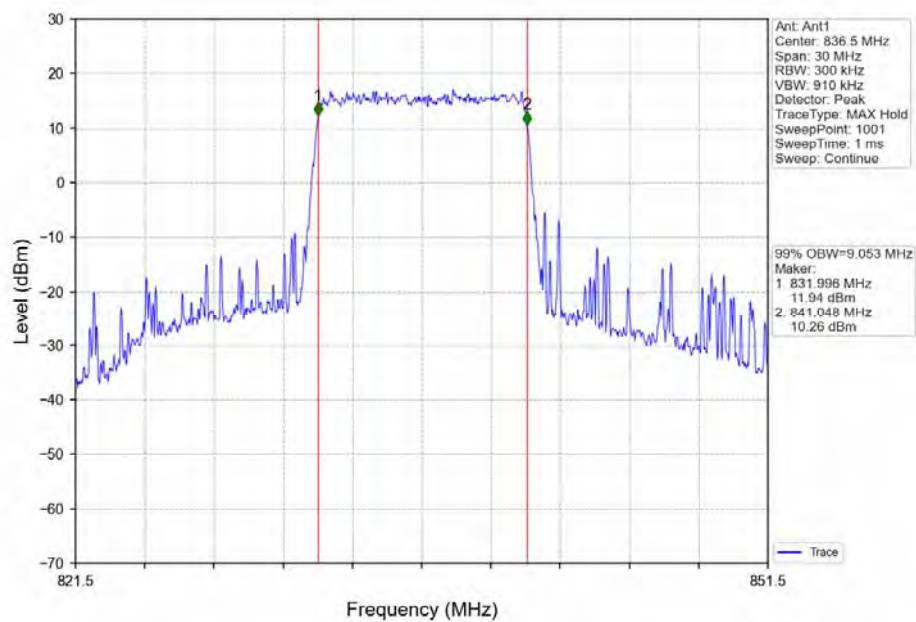
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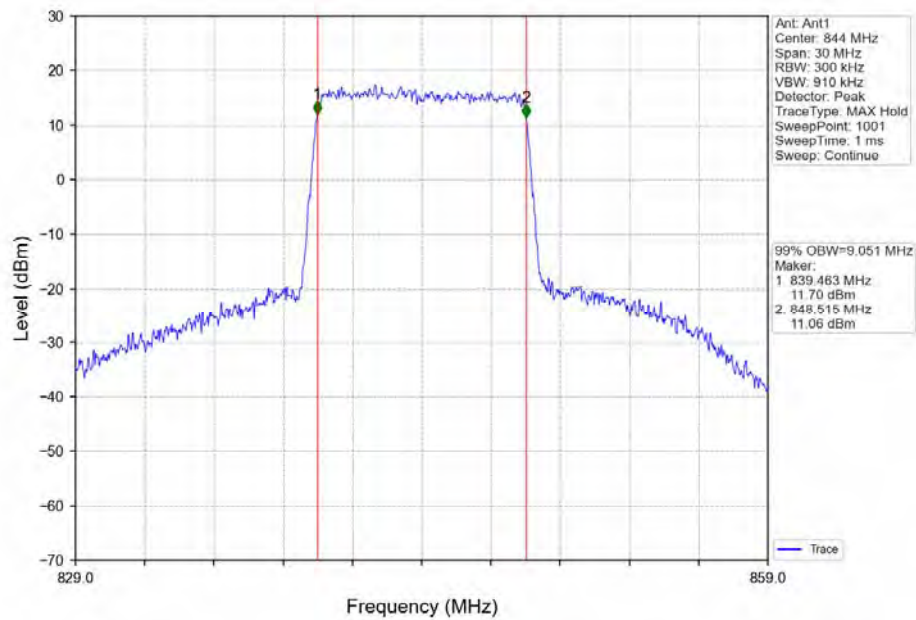
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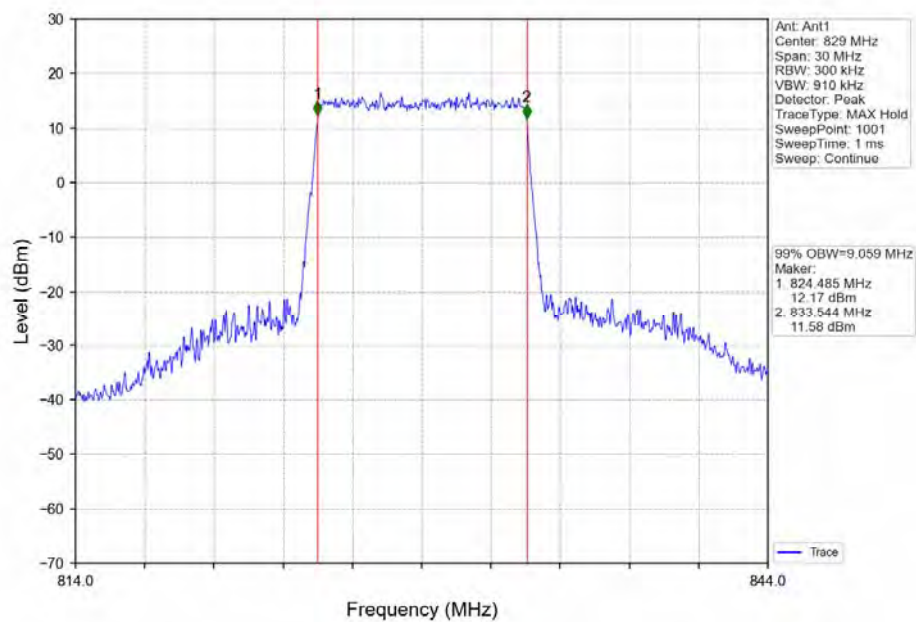
Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



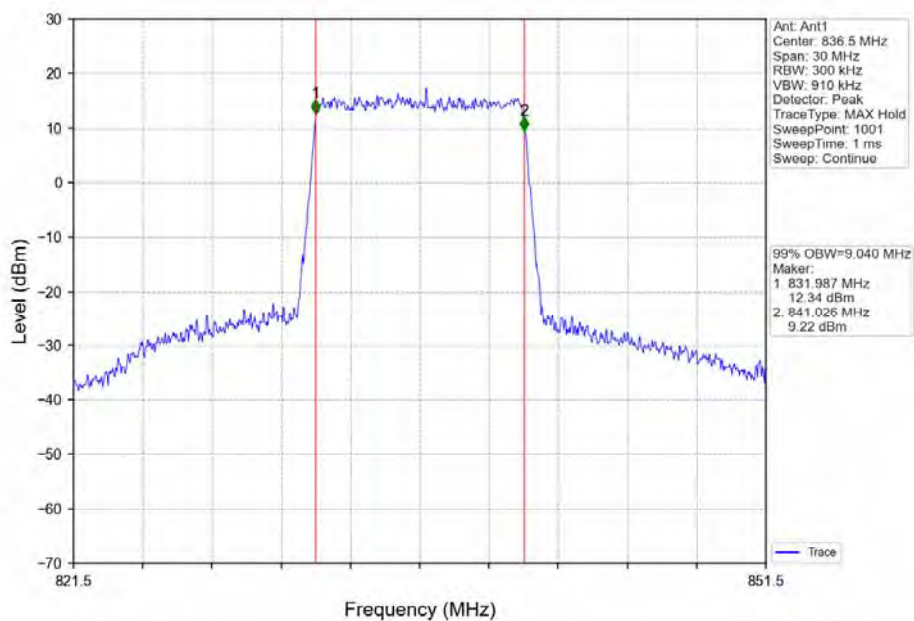
Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



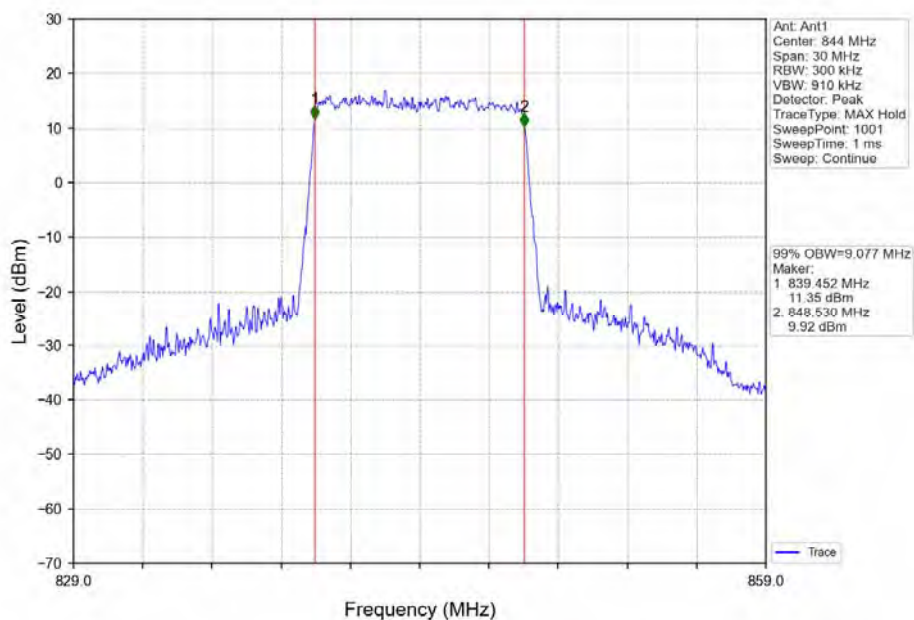
Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV





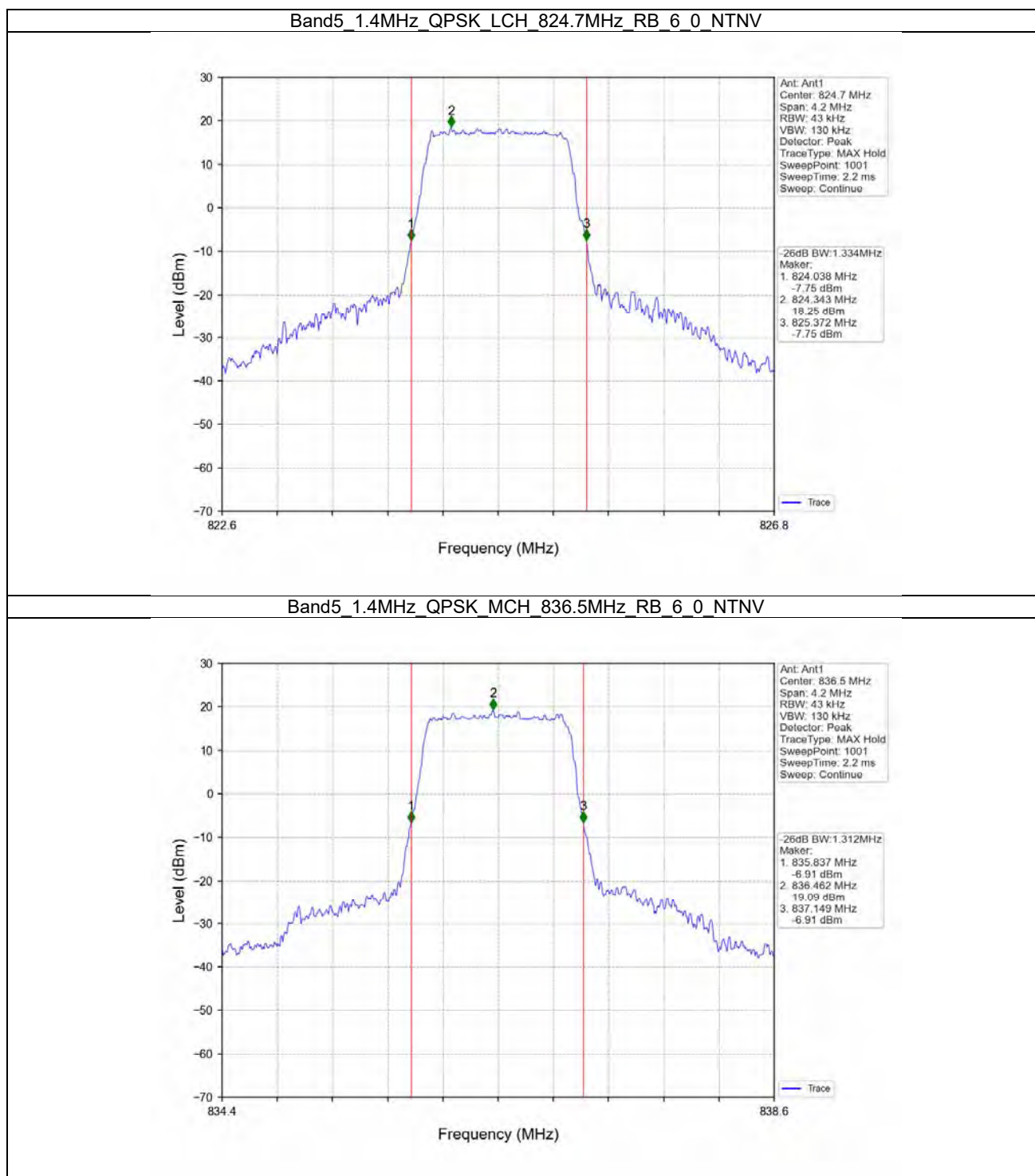
Report No.: W7L-P21100025RF04

26DB_BW

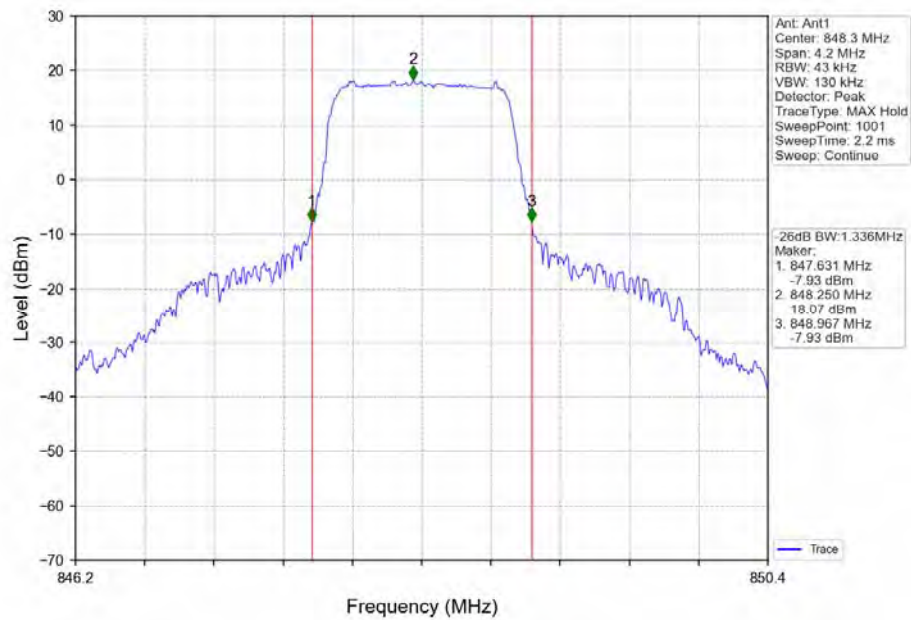
Test Result

Band: 5 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.334	Pass
		836.5	6	0	1.312	Pass
		848.3	6	0	1.336	Pass
	16QAM	824.7	6	0	1.305	Pass
		836.5	6	0	1.319	Pass
		848.3	6	0	1.326	Pass
	64QAM	824.7	6	0	1.423	Pass
		836.5	6	0	1.298	Pass
		848.3	6	0	1.307	Pass
3	QPSK	825.5	15	0	2.993	Pass
		836.5	15	0	2.990	Pass
		847.5	15	0	2.982	Pass
	16QAM	825.5	15	0	2.987	Pass
		836.5	15	0	3.005	Pass
		847.5	15	0	3.006	Pass
	64QAM	825.5	15	0	3.195	Pass
		836.5	15	0	2.994	Pass
		847.5	15	0	2.992	Pass
5	QPSK	826.5	25	0	5.006	Pass
		836.5	25	0	5.024	Pass
		846.5	25	0	5.041	Pass
	16QAM	826.5	25	0	5.014	Pass
		836.5	25	0	5.043	Pass
		846.5	25	0	5.062	Pass
	64QAM	826.5	25	0	5.029	Pass
		836.5	25	0	5.032	Pass
		846.5	25	0	5.002	Pass
10	QPSK	829	50	0	9.925	Pass
		836.5	50	0	11.121	Pass
		844	50	0	9.995	Pass
	16QAM	829	50	0	9.940	Pass
		836.5	50	0	10.936	Pass
		844	50	0	9.910	Pass
	64QAM	829	50	0	9.982	Pass
		836.5	50	0	9.873	Pass
		844	50	0	9.915	Pass

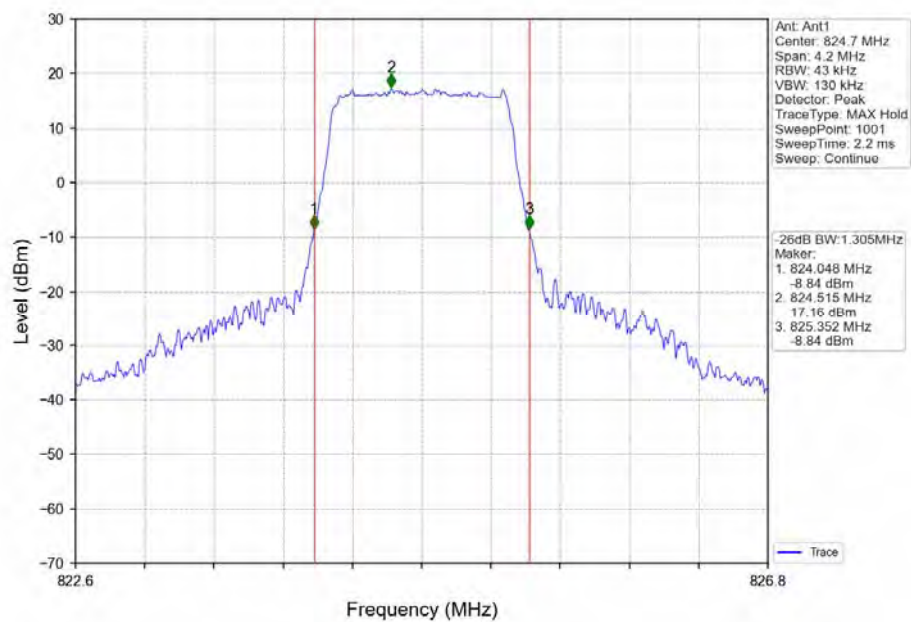
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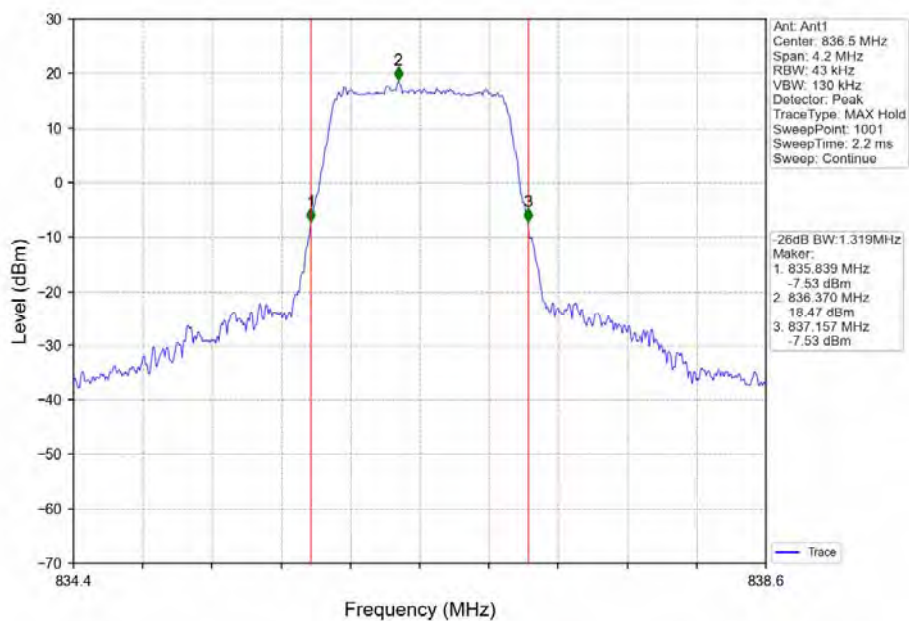
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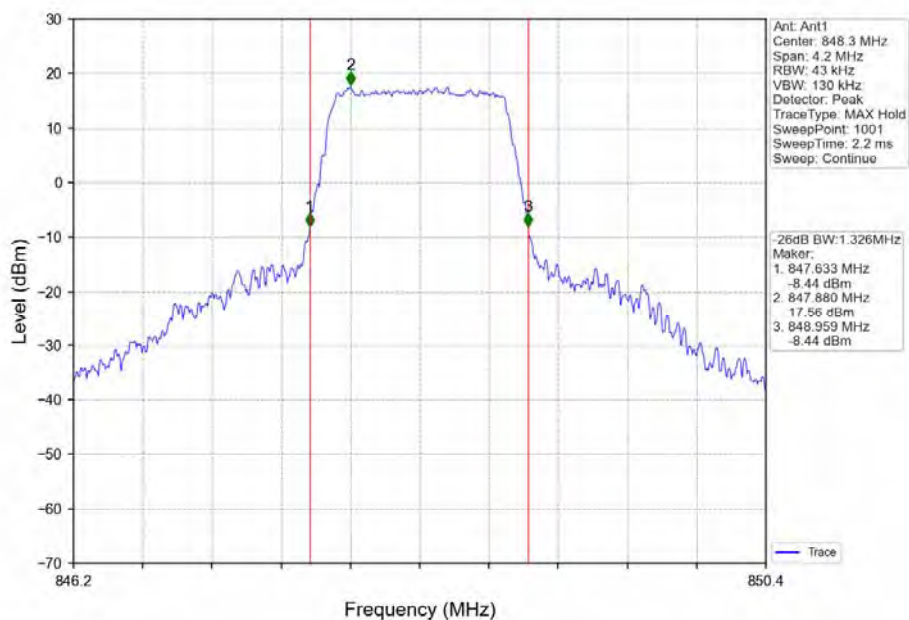
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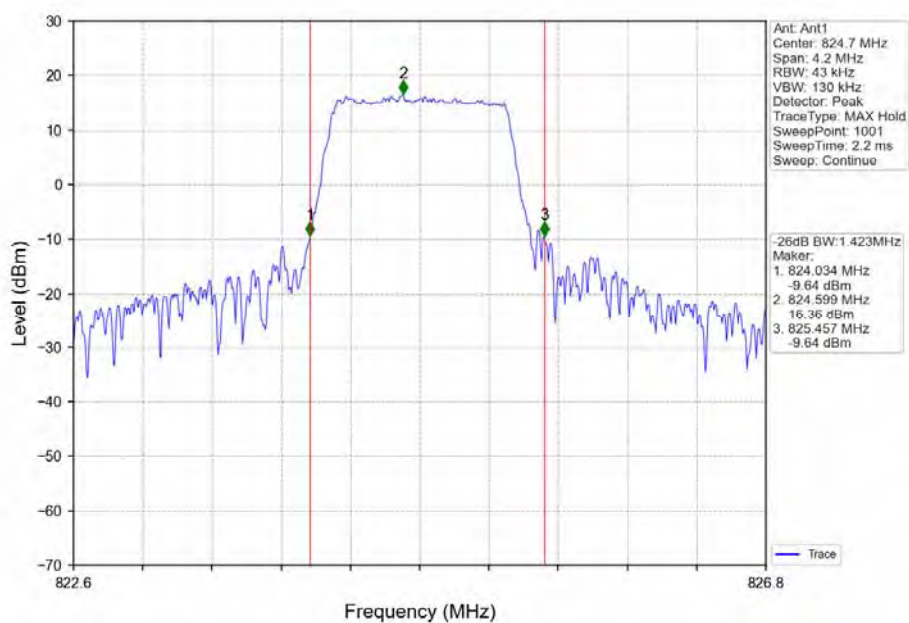
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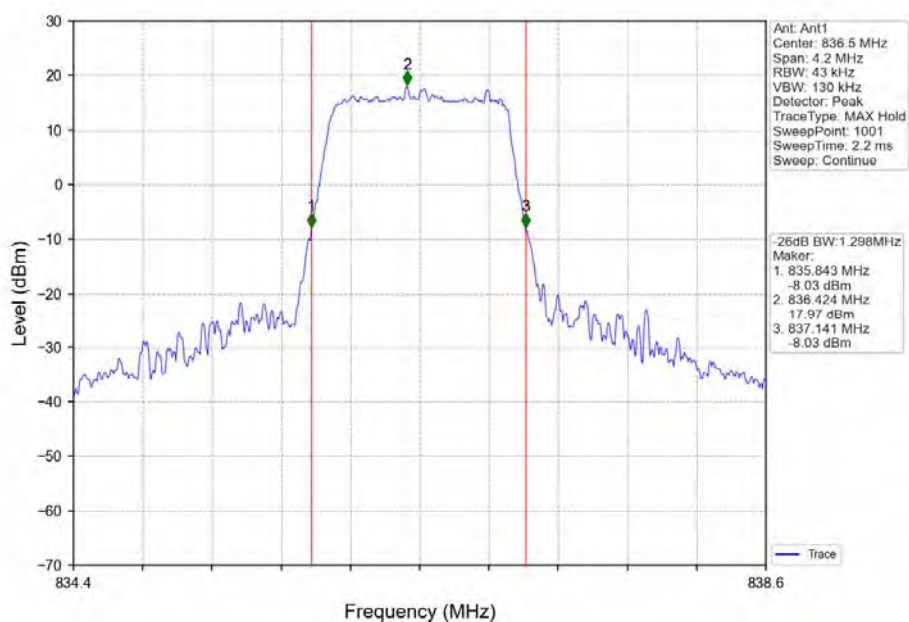
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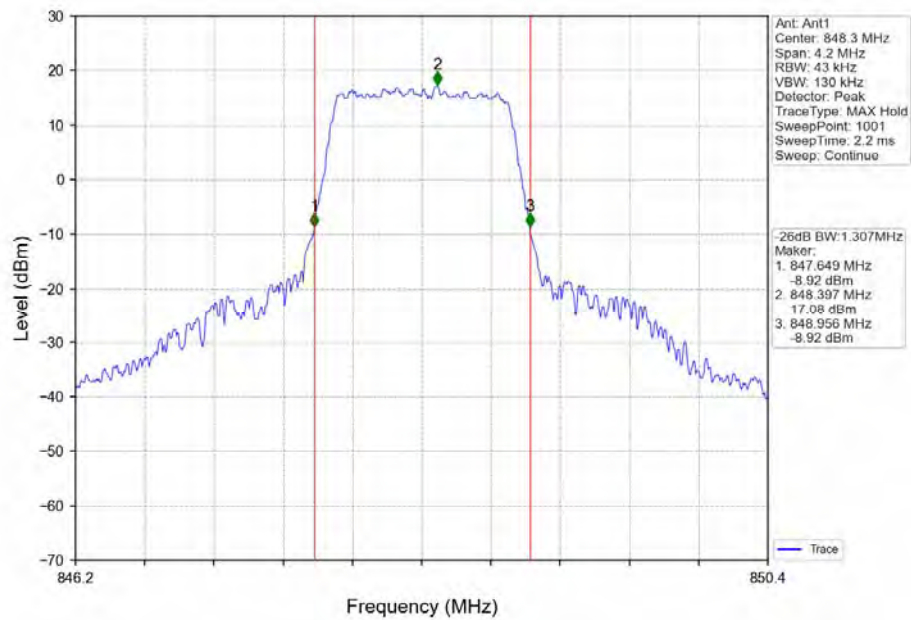
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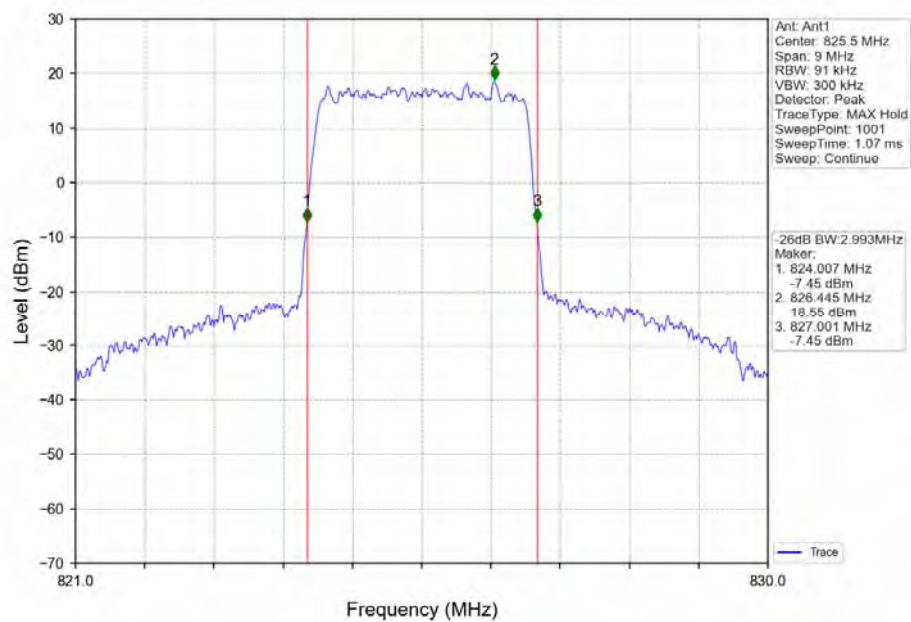
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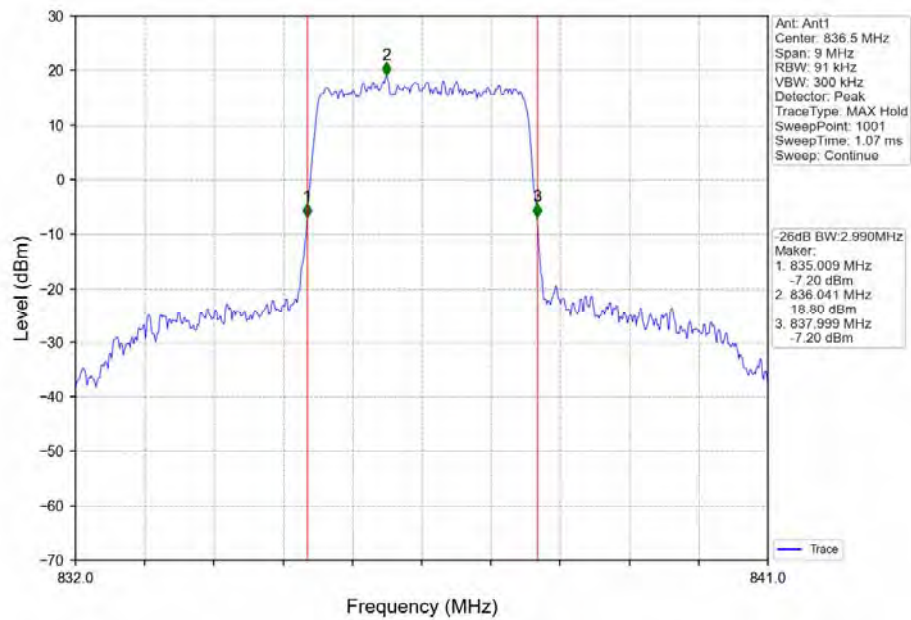
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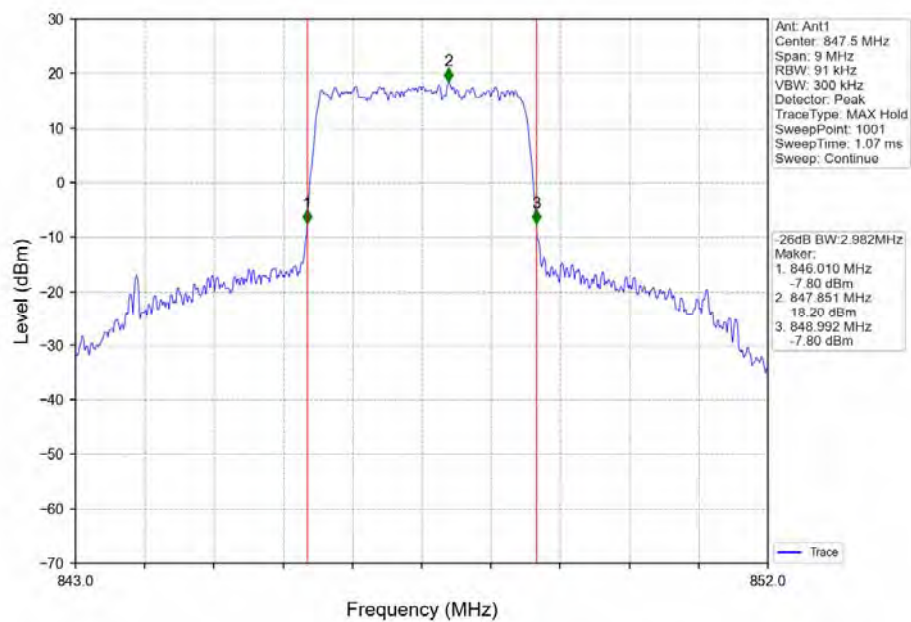
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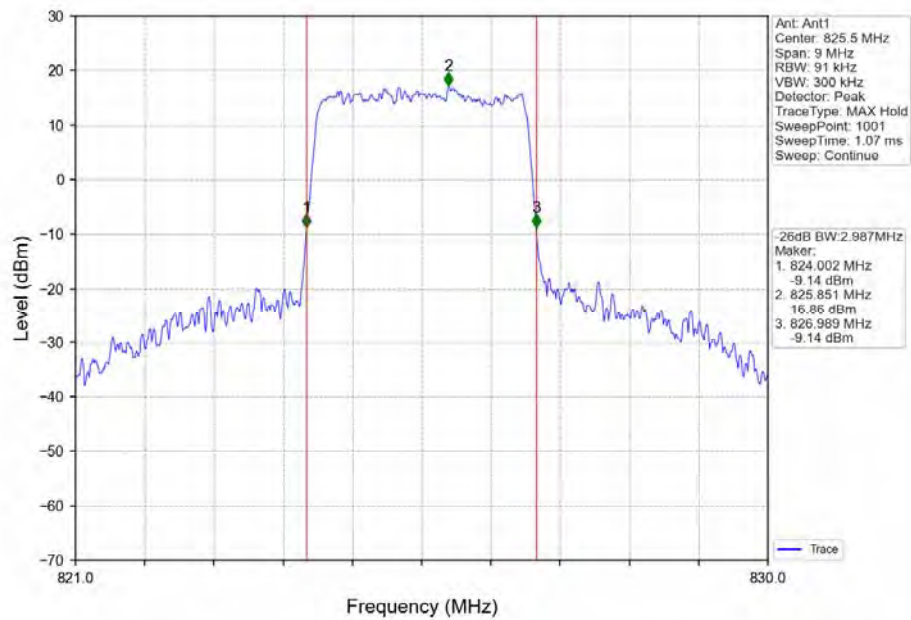
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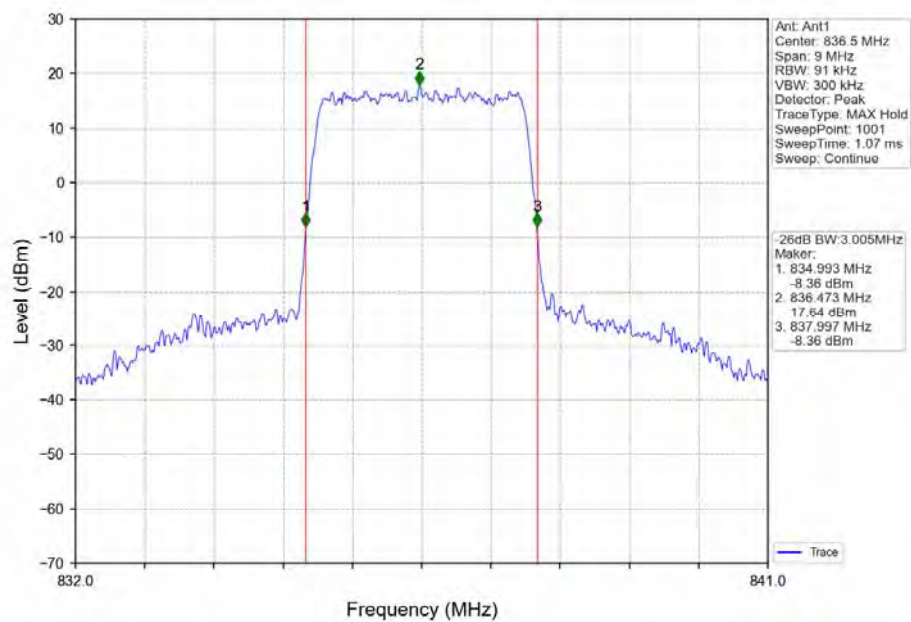
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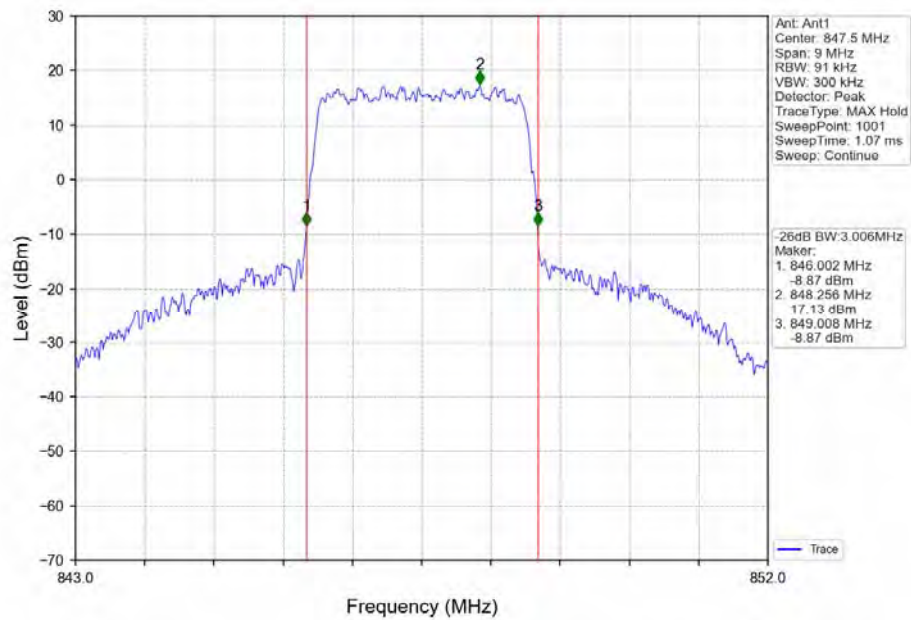
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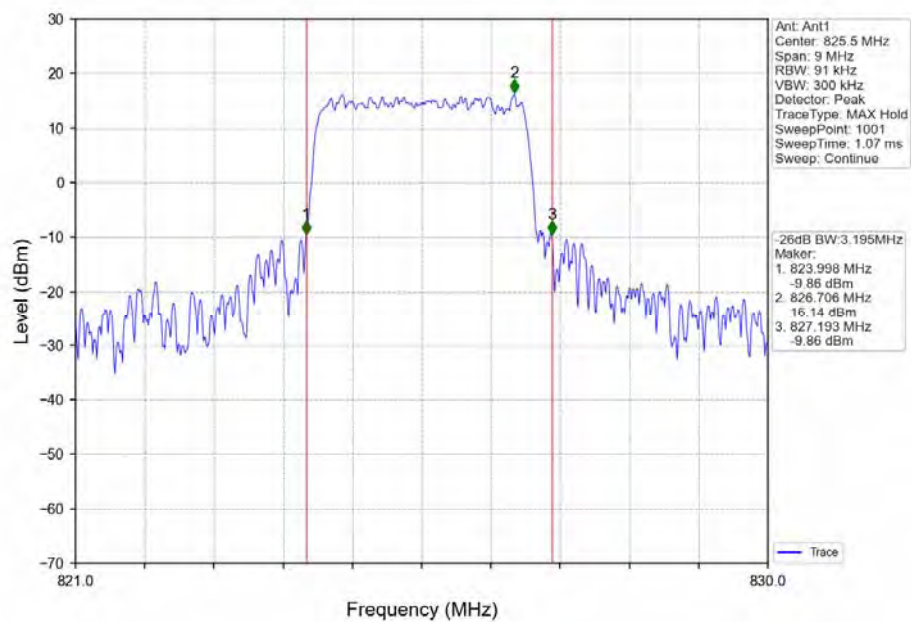
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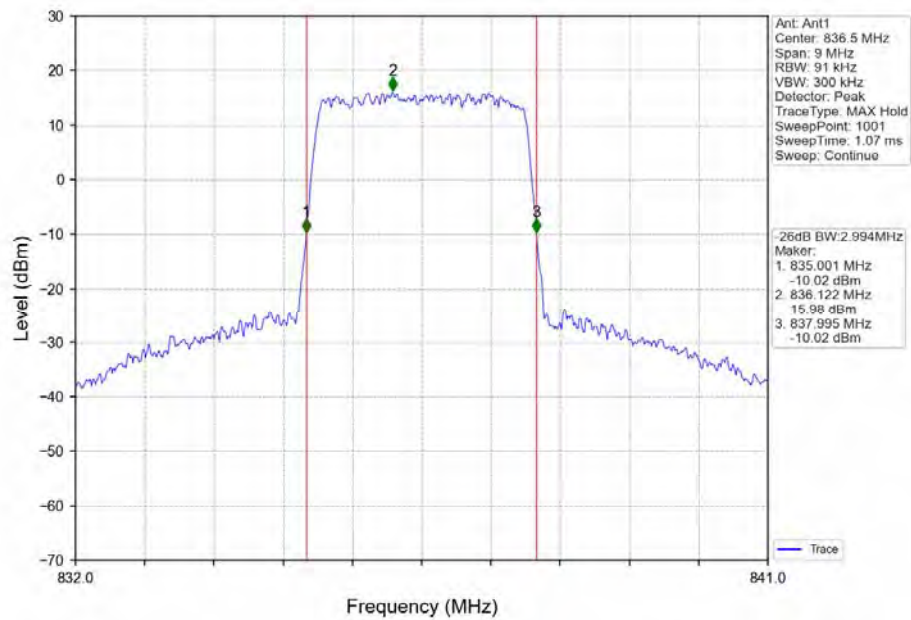
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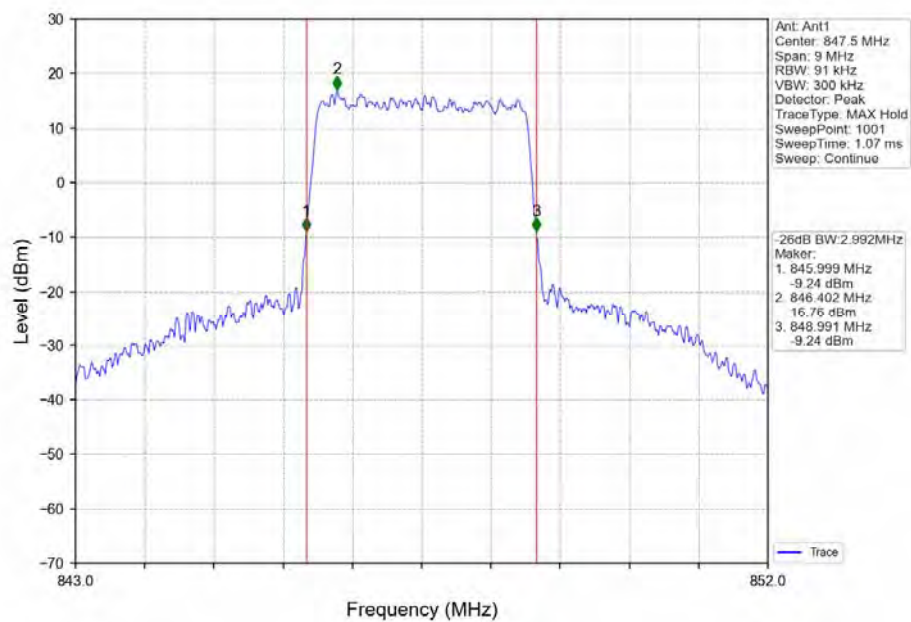
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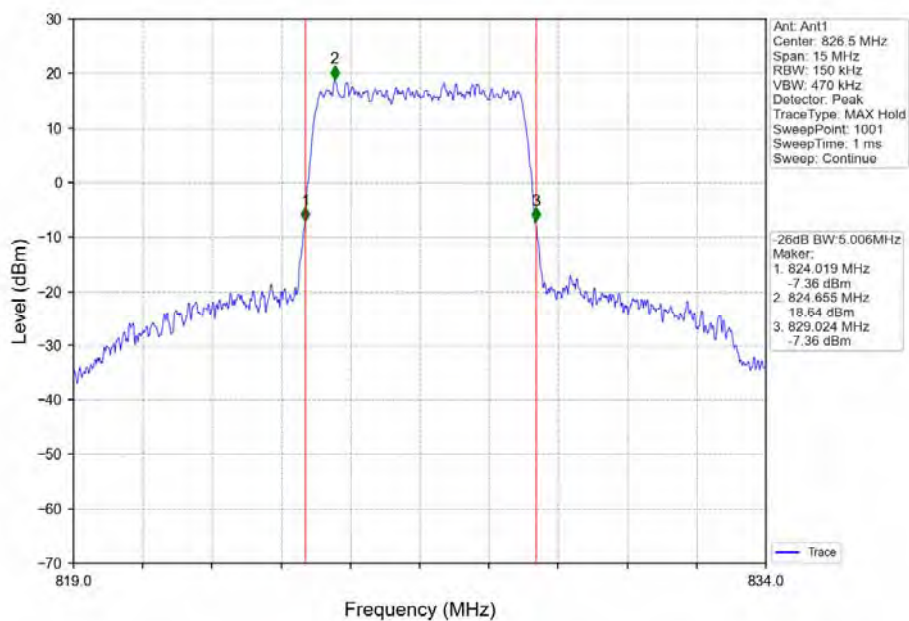
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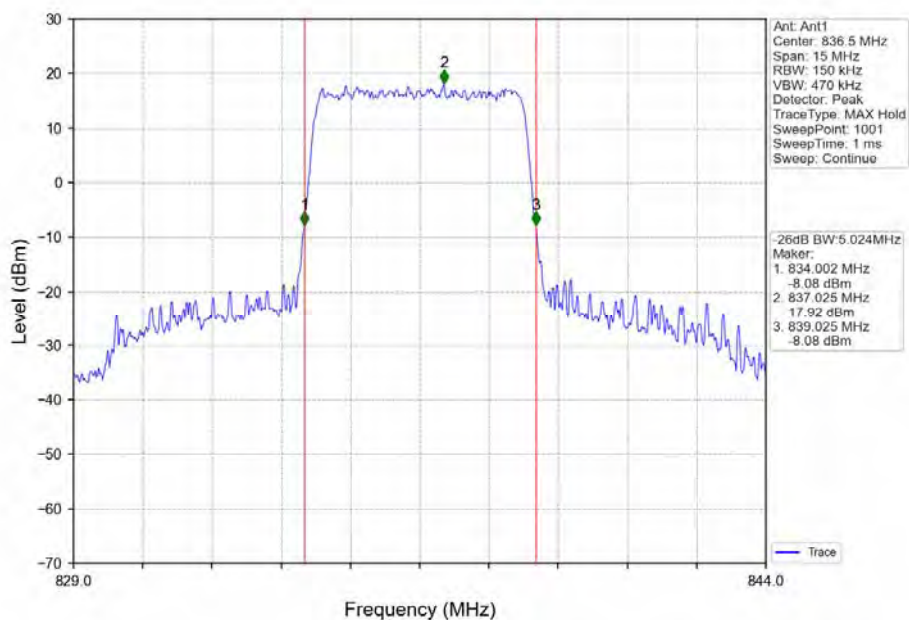
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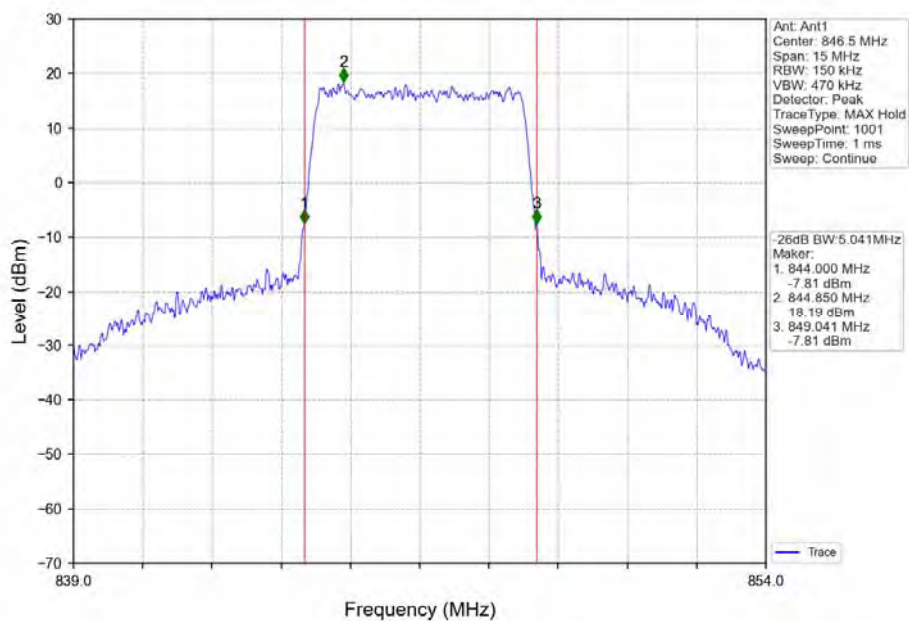
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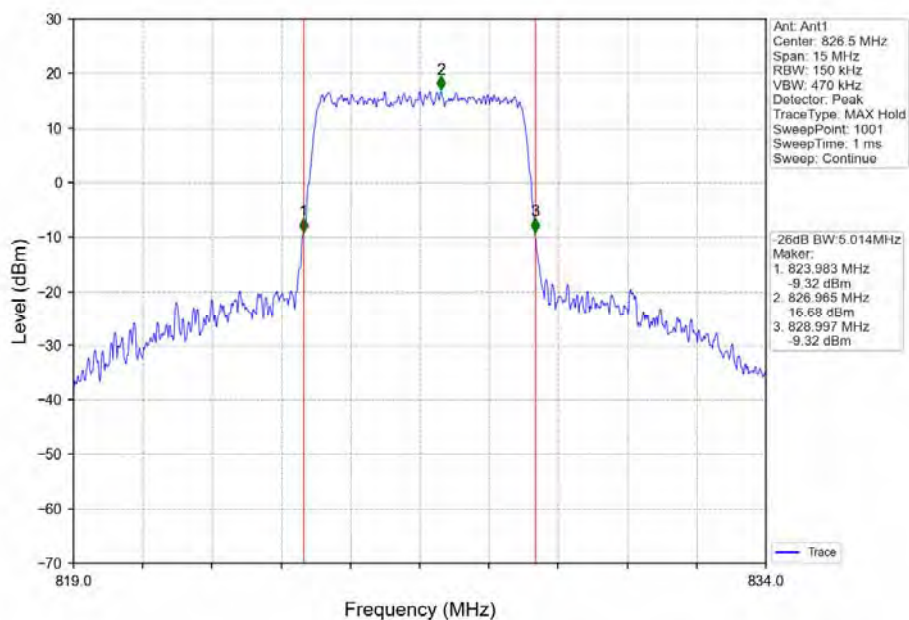
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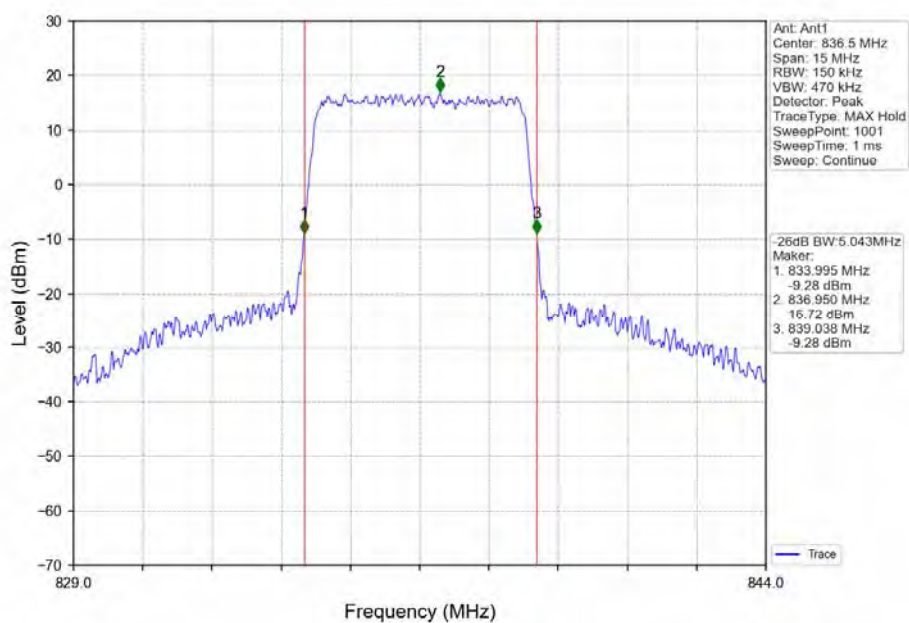
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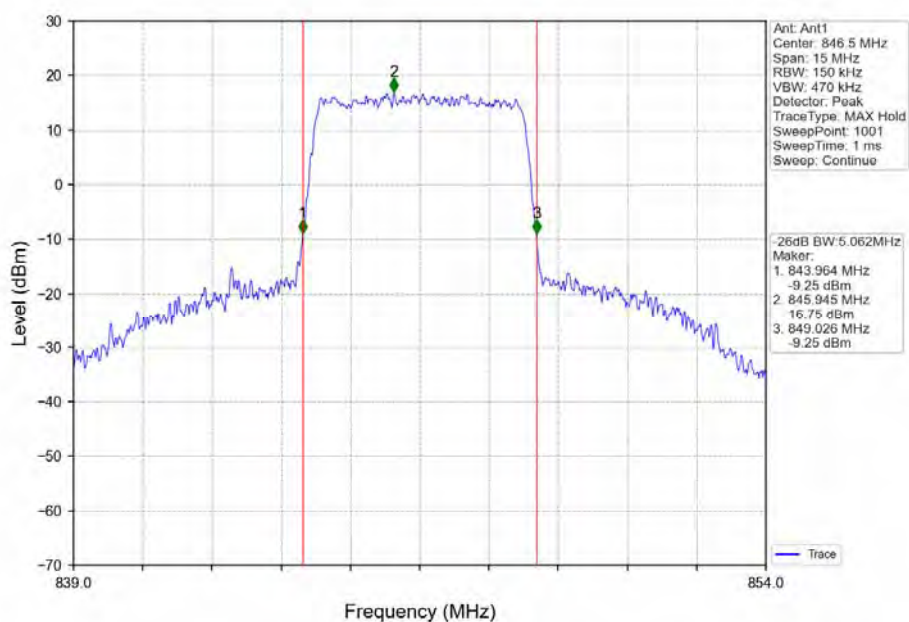
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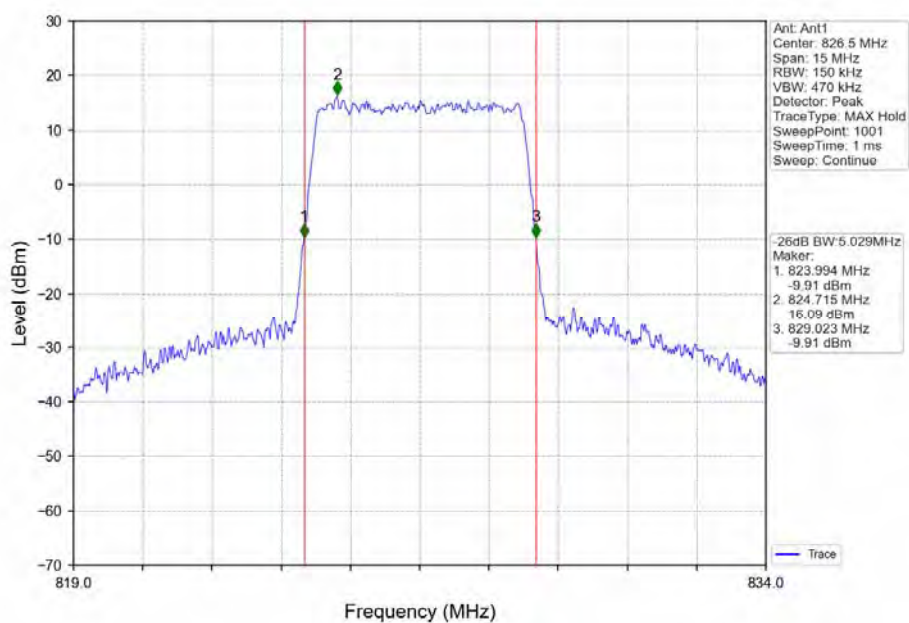
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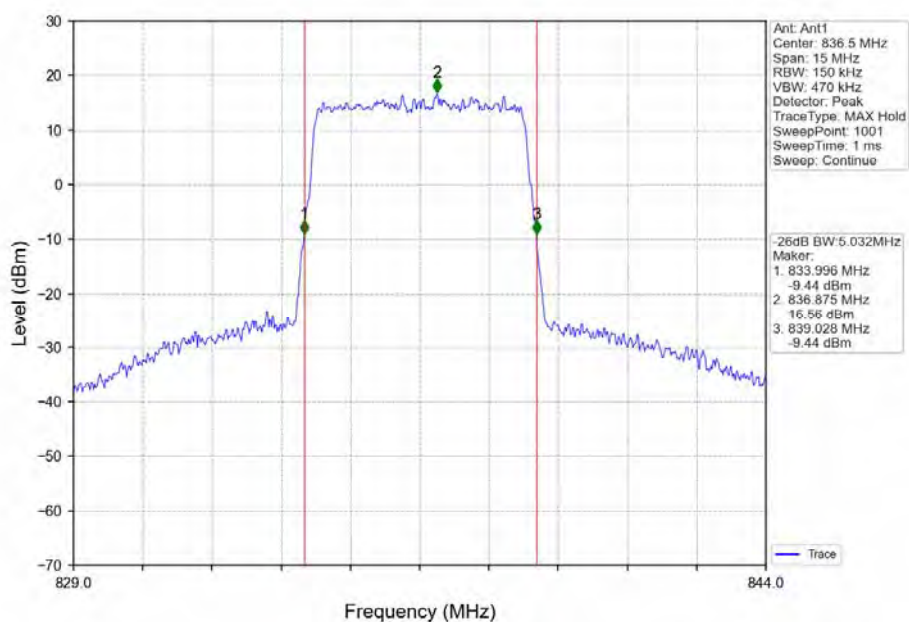
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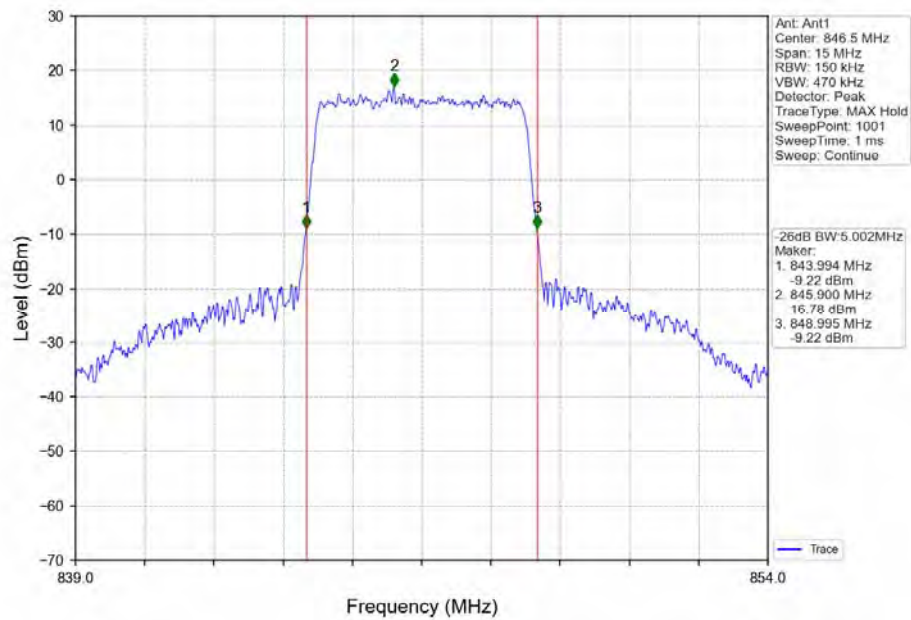
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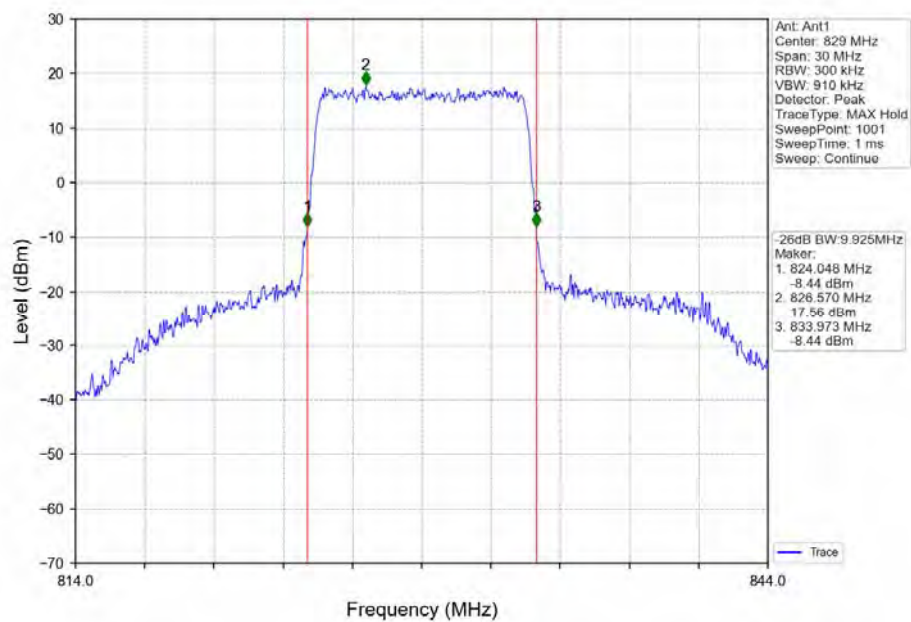
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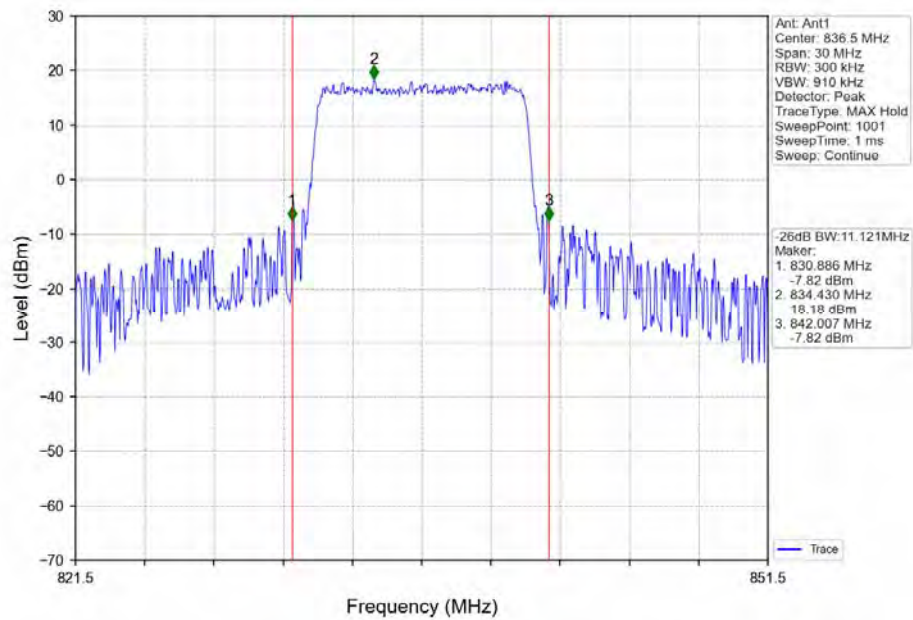
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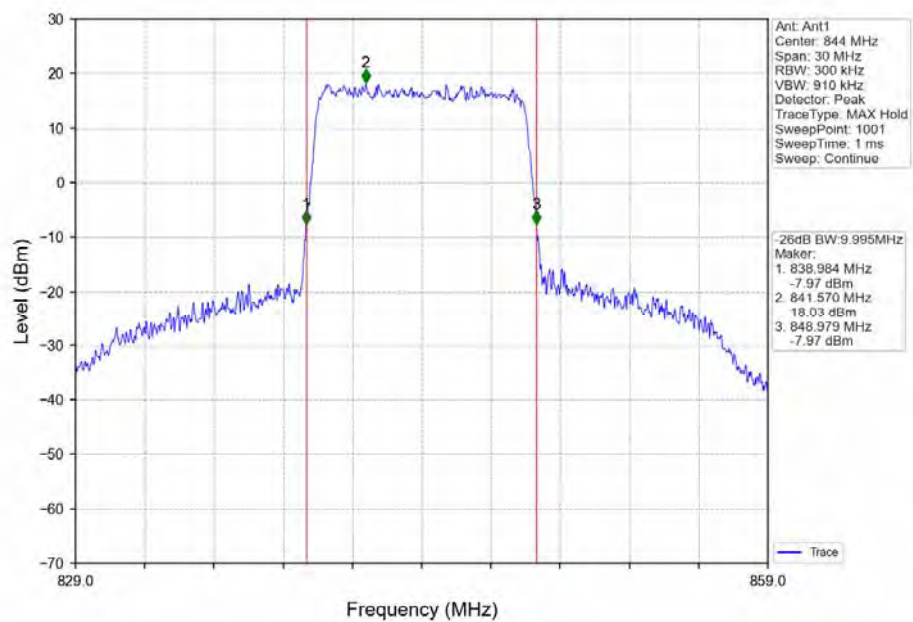
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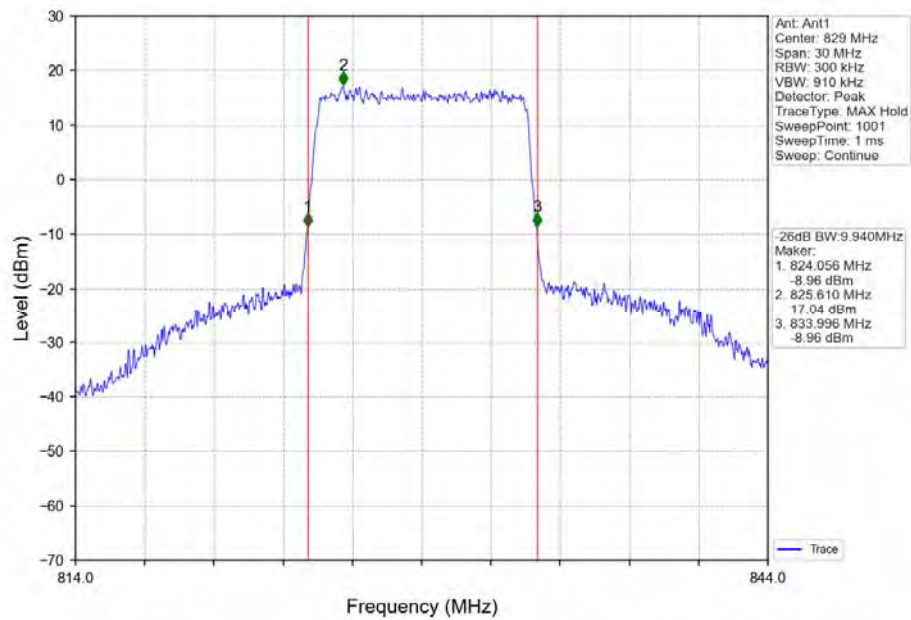
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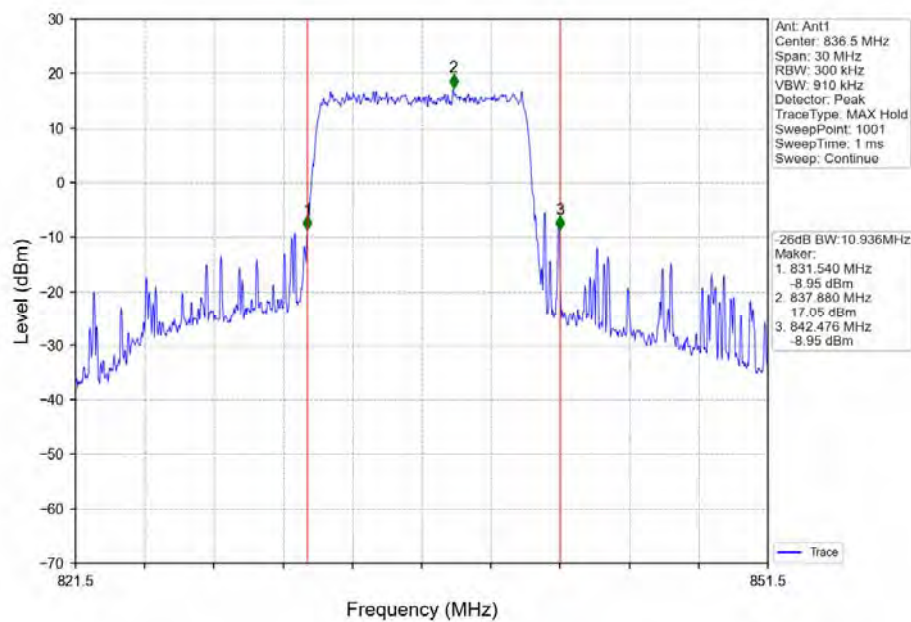
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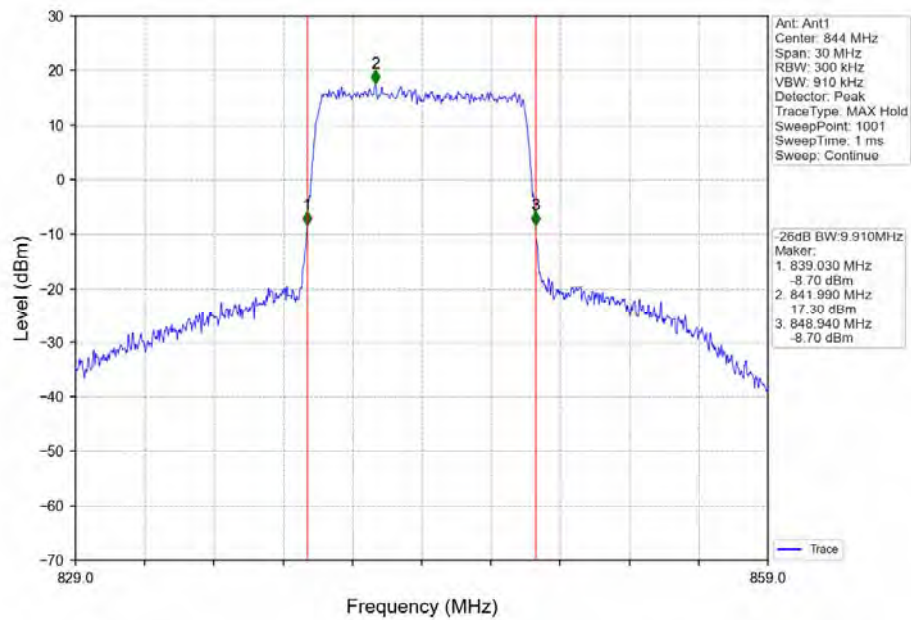
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV

