VARIANT FCC TEST REPORT
(PART 27)

Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
HW version	P4.1
SW version	MODEMSA515M_03.18.00
Registration No:	525120
Designation No:	CN1171
Date of tests:	Jun. 16, 2021 ~ Mar. 07, 2022

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

☒ **FCC Part 27, Subpart C, M** ☒ **ANSI/TIA/EIA-603-D**
☒ **FCC Part 2** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

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
Simon Date: Mar. 07, 2022	Luke Lu Date: Mar. 07, 2022

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. 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. 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 you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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1. 99% & 26dB Bandwidth

1.1 LTE 66B

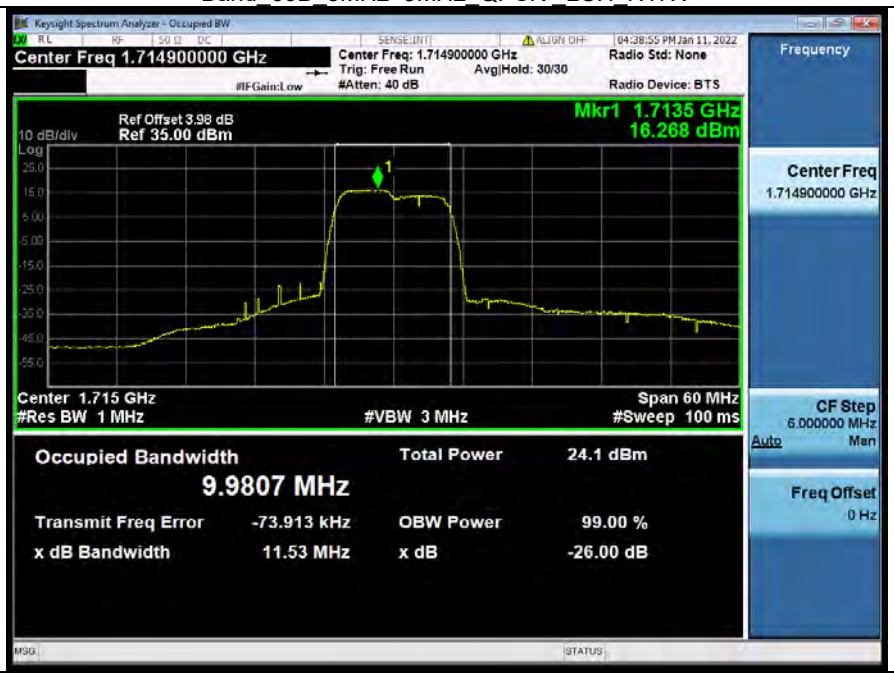
1.1.1 Test Result

Band: 66B / Bandwidth: 5MHz+5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	9.98	10.04	10.03	/	Pass
16QAM	FULL	0	9.99	10.02	10.05	/	Pass
64QAM	FULL	0	9.99	9.97	10.05	/	Pass
Band: 66B / Bandwidth: 5MHz+10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	14.51	14.50	14.54	/	Pass
16QAM	FULL	0	14.53	14.52	14.52	/	Pass
64QAM	FULL	0	14.52	14.52	14.53	/	Pass
Band: 66B / Bandwidth: 5MHz+15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	18.68	18.73	18.66	/	Pass
16QAM	FULL	0	18.72	18.73	18.61	/	Pass
64QAM	FULL	0	18.71	18.75	18.68	/	Pass
Band: 66B / Bandwidth: 10MHz+5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	14.55	14.51	14.59	/	Pass
16QAM	FULL	0	14.53	14.53	14.59	/	Pass
64QAM	FULL	0	14.53	14.50	14.60	/	Pass
Band: 66B / Bandwidth: 10MHz+10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	19.27	19.26	19.27	/	Pass
16QAM	FULL	0	19.27	19.28	19.26	/	Pass
64QAM	FULL	0	19.26	19.28	19.28	/	Pass
Band: 66B / Bandwidth: 15MHz+5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	18.70	18.70	18.82	/	Pass
16QAM	FULL	0	18.74	18.69	18.78	/	Pass
64QAM	FULL	0	18.73	18.70	18.80	/	Pass

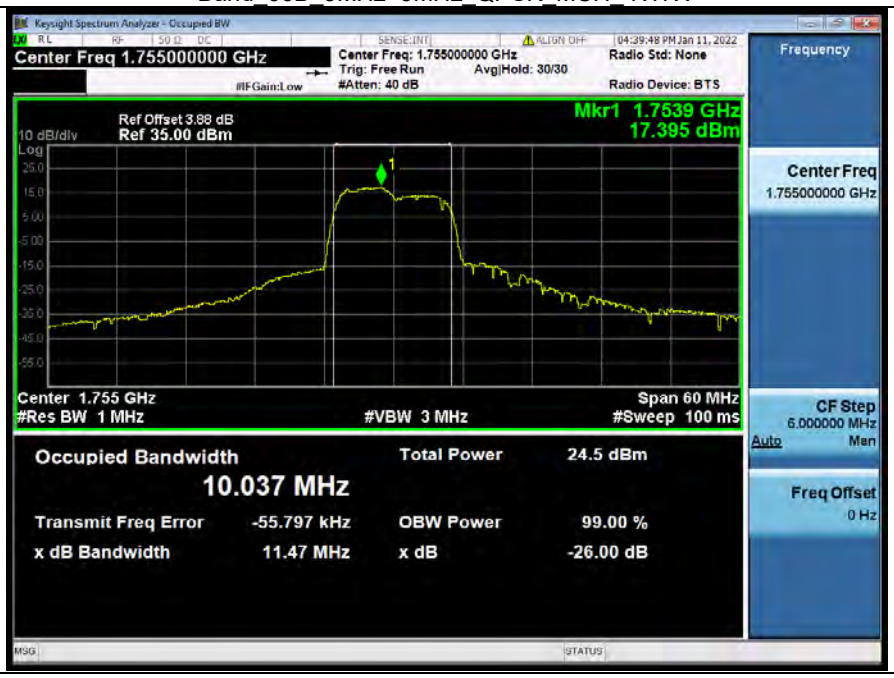
Band: 66B / Bandwidth: 5MHz+5MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	11.53	11.47	11.51	/	Pass
16QAM	FULL	0	11.51	11.51	11.52	/	Pass
64QAM	FULL	0	11.54	11.52	11.55	/	Pass
Band: 66B / Bandwidth: 5MHz+10MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	16.11	16.06	16.10	/	Pass
16QAM	FULL	0	16.11	16.10	16.14	/	Pass
64QAM	FULL	0	16.10	16.13	16.10	/	Pass
Band: 66B / Bandwidth: 5MHz+15MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	20.36	20.38	20.36	/	Pass
16QAM	FULL	0	20.41	20.39	20.38	/	Pass
64QAM	FULL	0	20.42	20.38	20.37	/	Pass
Band: 66B / Bandwidth: 10MHz+5MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	16.29	16.23	16.23	/	Pass
16QAM	FULL	0	16.23	16.26	16.28	/	Pass
64QAM	FULL	0	16.26	16.24	16.28	/	Pass
Band: 66B / Bandwidth: 10MHz+10MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	21.15	21.10	21.16	/	Pass
16QAM	FULL	0	21.14	21.12	21.03	/	Pass
64QAM	FULL	0	21.12	21.14	21.16	/	Pass
Band: 66B / Bandwidth: 15MHz+5MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	20.54	20.42	20.57	/	Pass
16QAM	FULL	0	20.56	20.55	50.59	/	Pass
64QAM	FULL	0	20.54	20.51	20.56	/	Pass

1.1.2 Test Graph

Band_66B_5MHz+5MHz_QPSK_LCH_NTNV

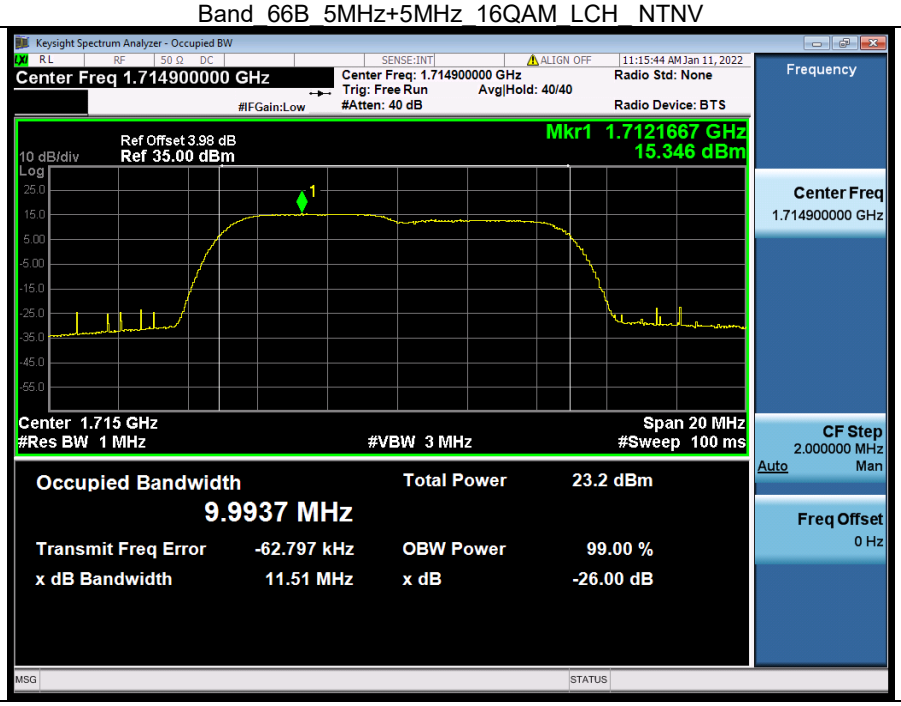


Band_66B_5MHz+5MHz_QPSK_MCH_NTNV

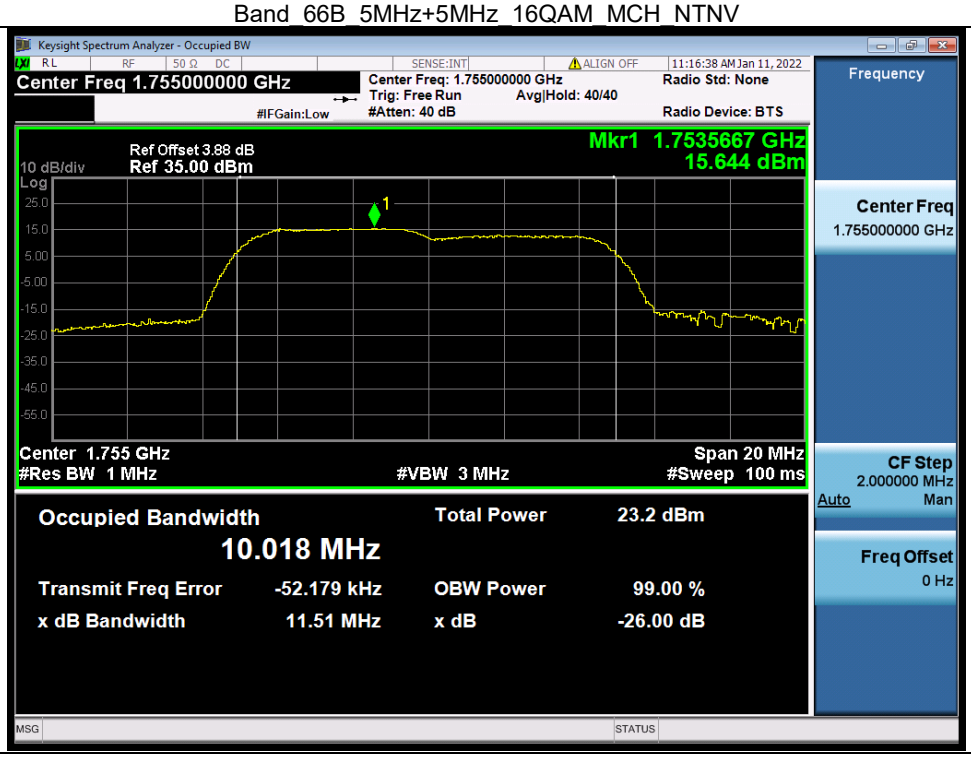


Band_66B_5MHz+5MHz_QPSK_HCH_NTNV

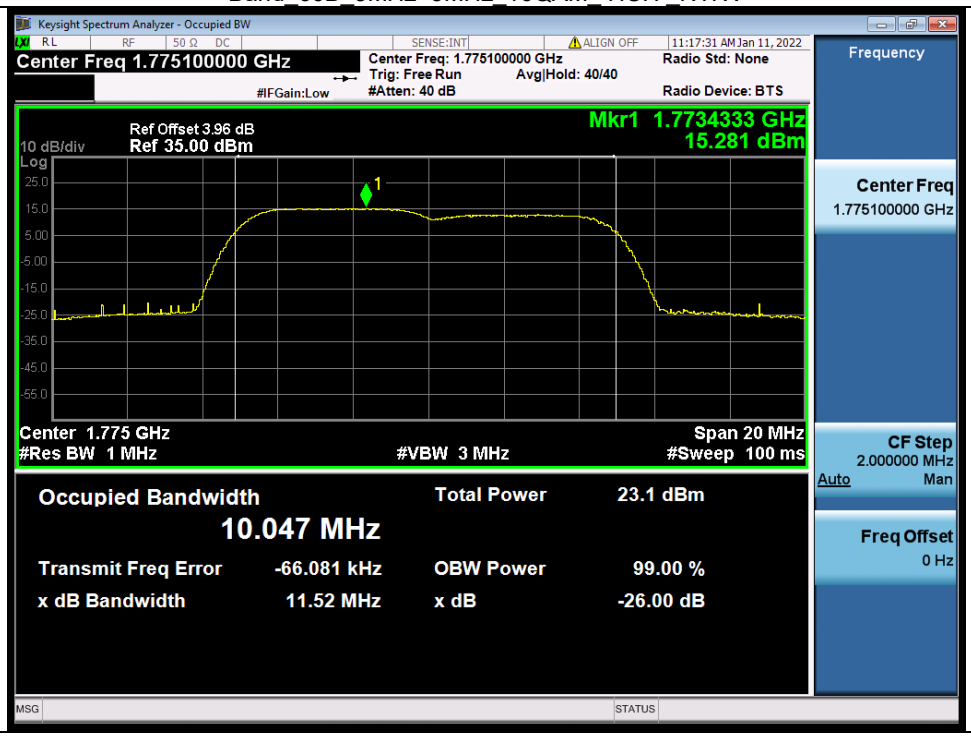
Band_66B_5MHz+5MHz_16QAM_LCH_NTNV



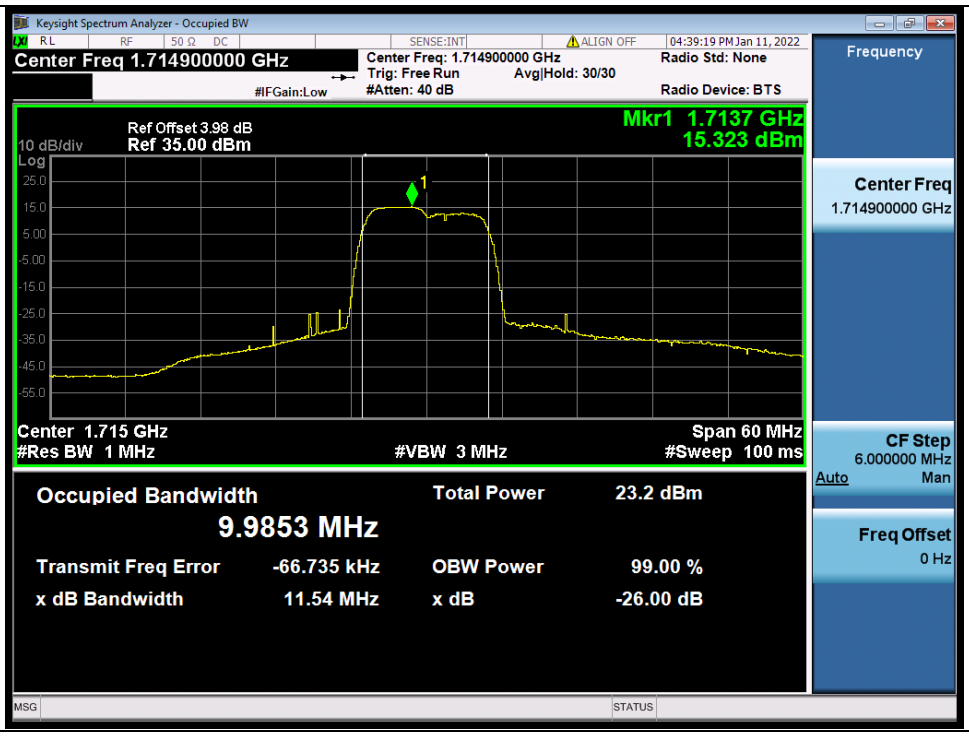
Band_66B_5MHz+5MHz_16QAM_MCH_NTNV



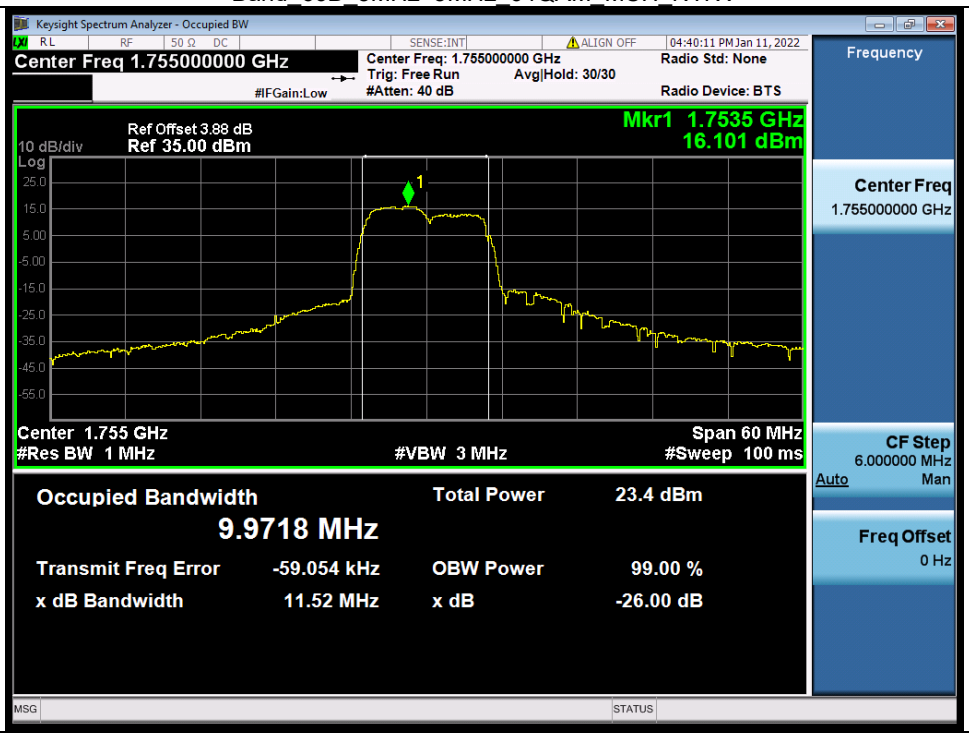
Band_66B_5MHz+5MHz_16QAM_HCH_NTNV



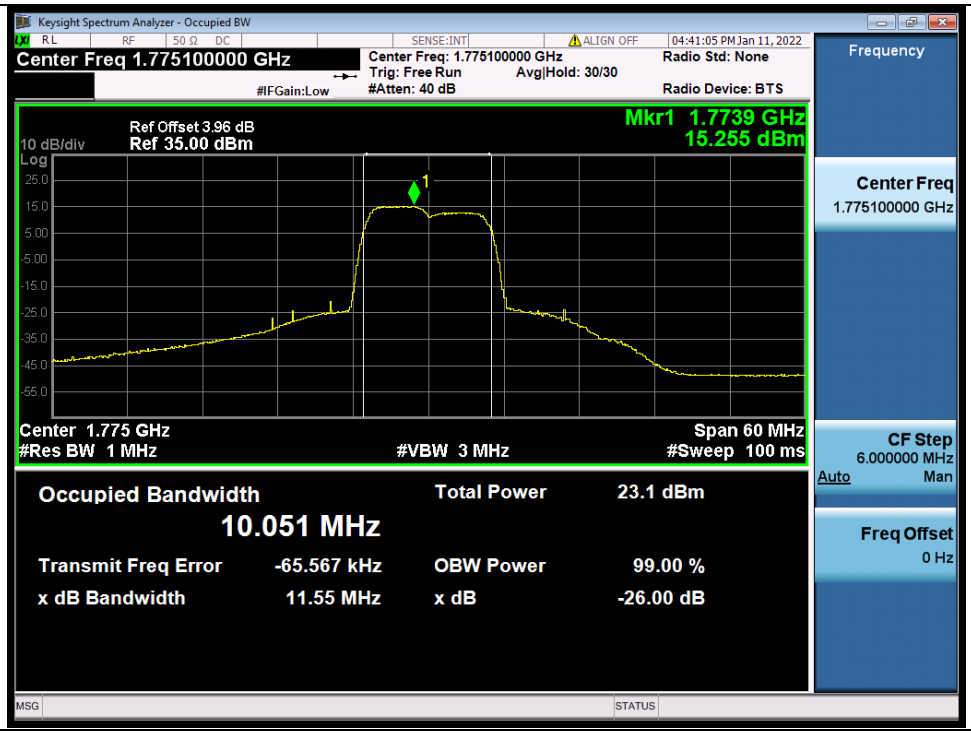
Band_66B_5MHz+5MHz_64QAM_LCH_NTNV



Band_66B_5MHz+5MHz_64QAM_MCH_NTNV

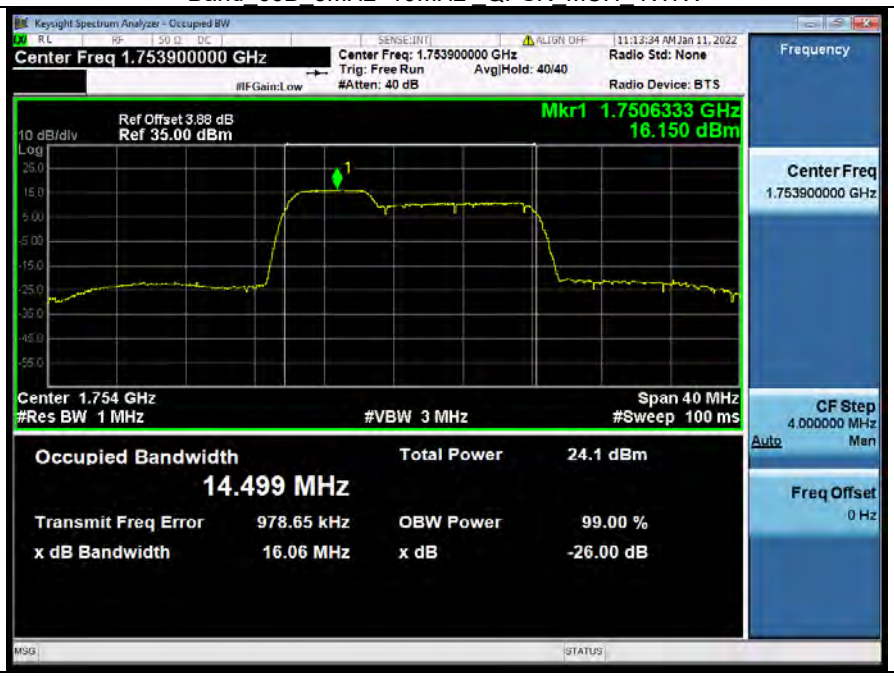


Band_66B_5MHz+5MHz_64QAM_HCH_NTNV

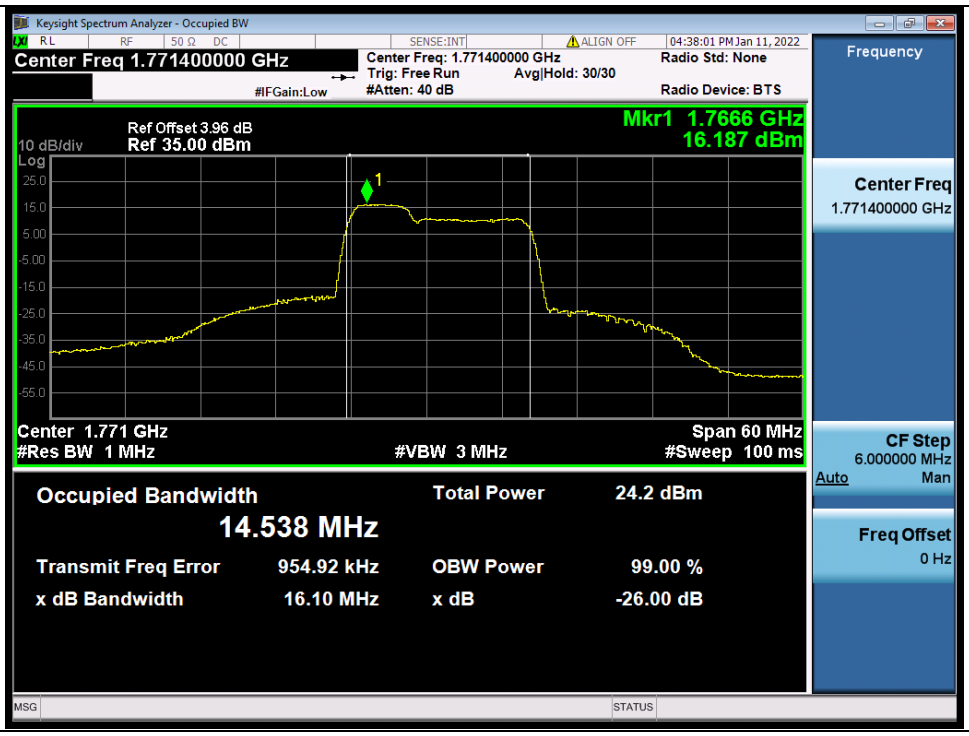

Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.775100000 GHz
Center Freq: 1.775100000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
04:41:05 PM Jan 11, 2022
Frequency
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.7739 GHz
15.255 dBm
Center 1.775 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
10.051 MHz
Total Power 23.1 dBm
Transmit Freq Error -65.567 kHz
OBW Power 99.00 %
x dB Bandwidth 11.55 MHz
x dB -26.00 dB
Center Freq
1.775100000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

Band_66B_5MHz+10MHz_QPSK_LCH_NTNV

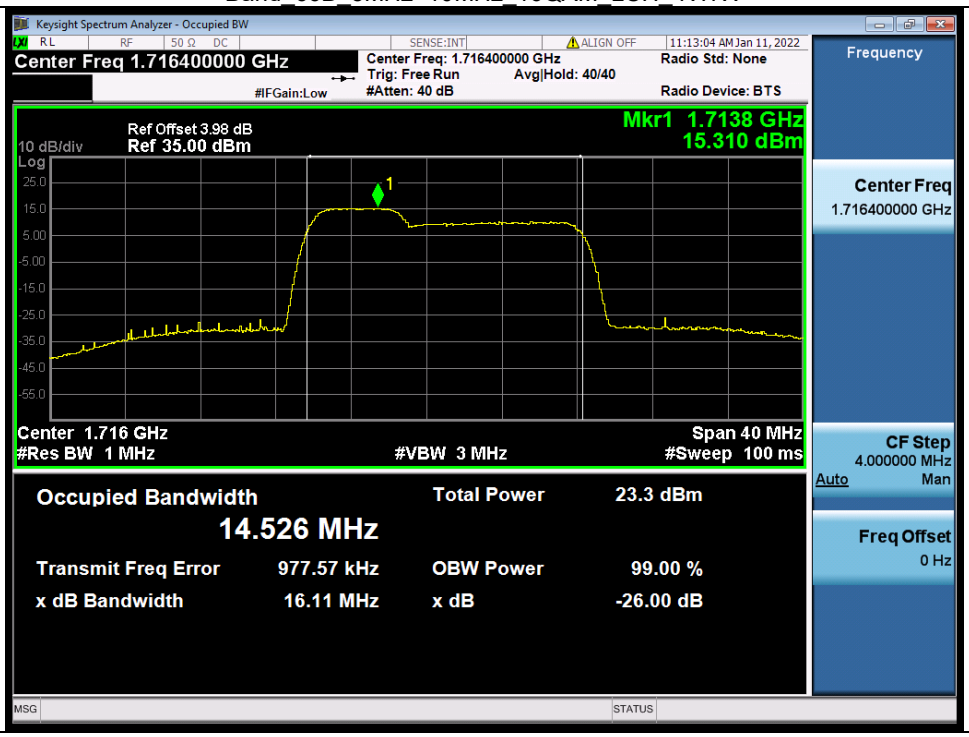
Band_66B_5MHz+10MHz_QPSK_MCH_NTNV



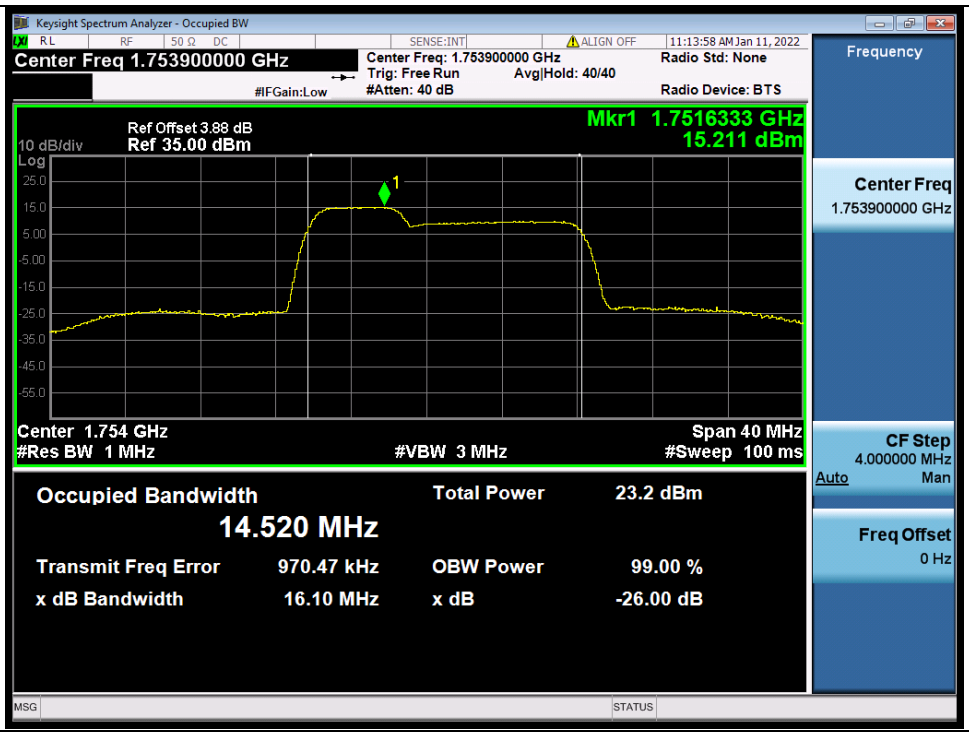
Band_66B_5MHz+10MHz_QPSK_HCH_NTNV



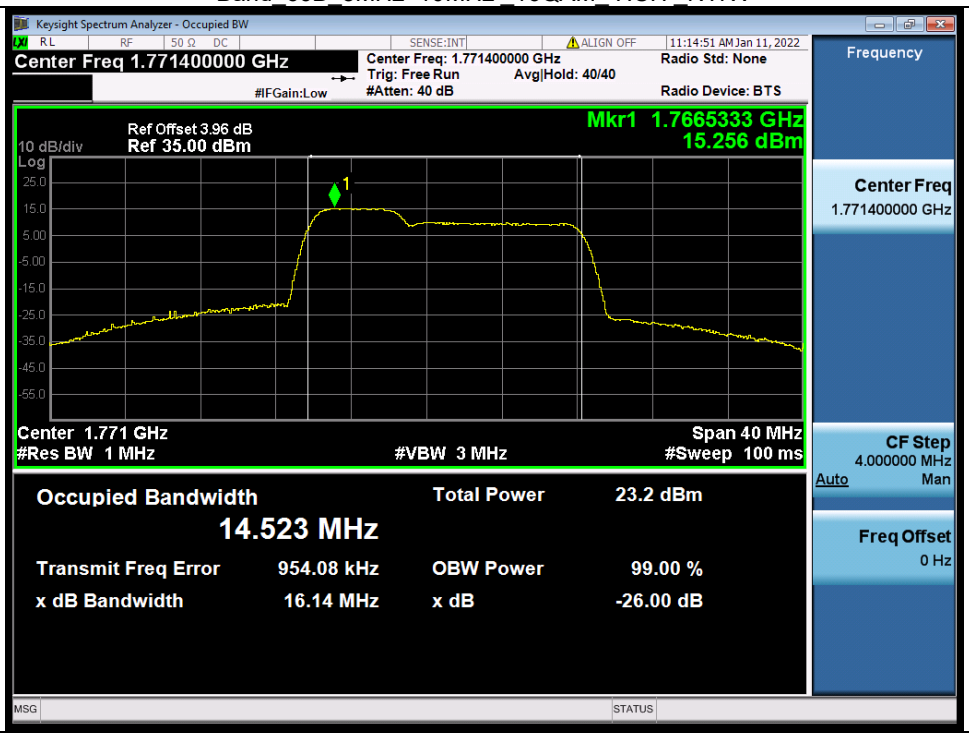
Band_66B_5MHz+10MHz_16QAM_LCH_NTNV



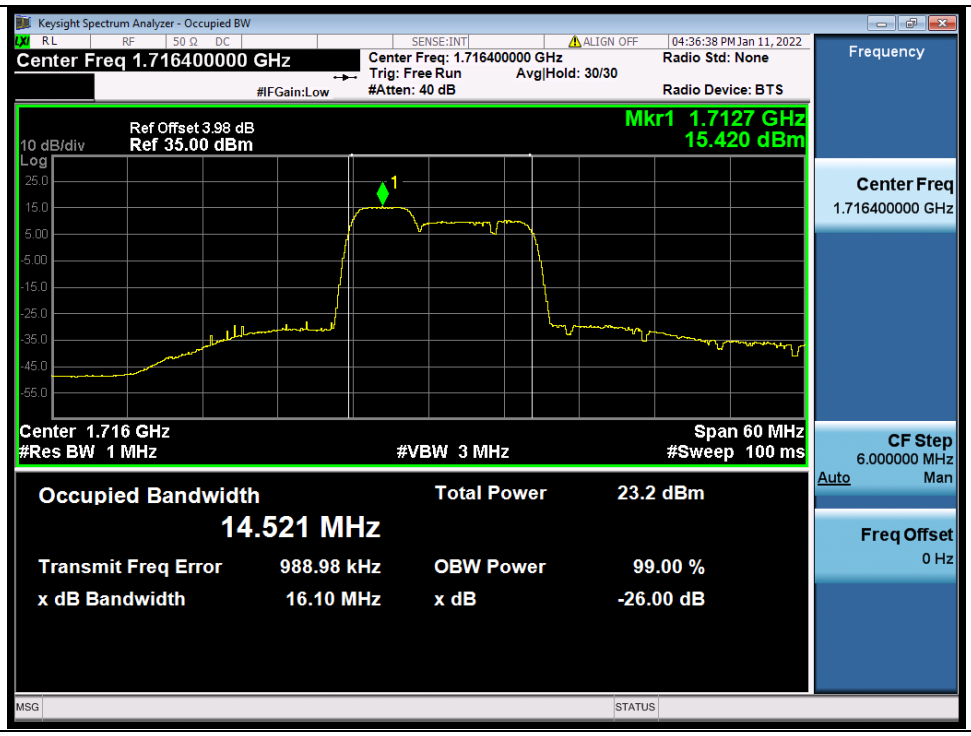
Band_66B_5MHz+10MHz_16QAM_MCH_NTNV



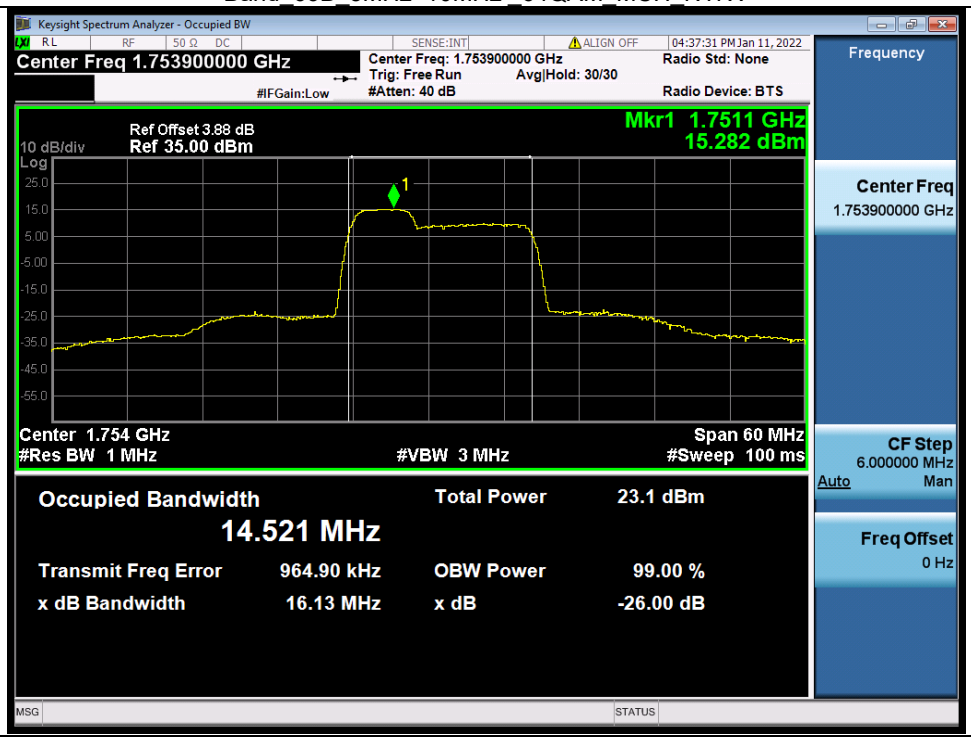
Band_66B_5MHz+10MHz_16QAM_HCH_NTNV



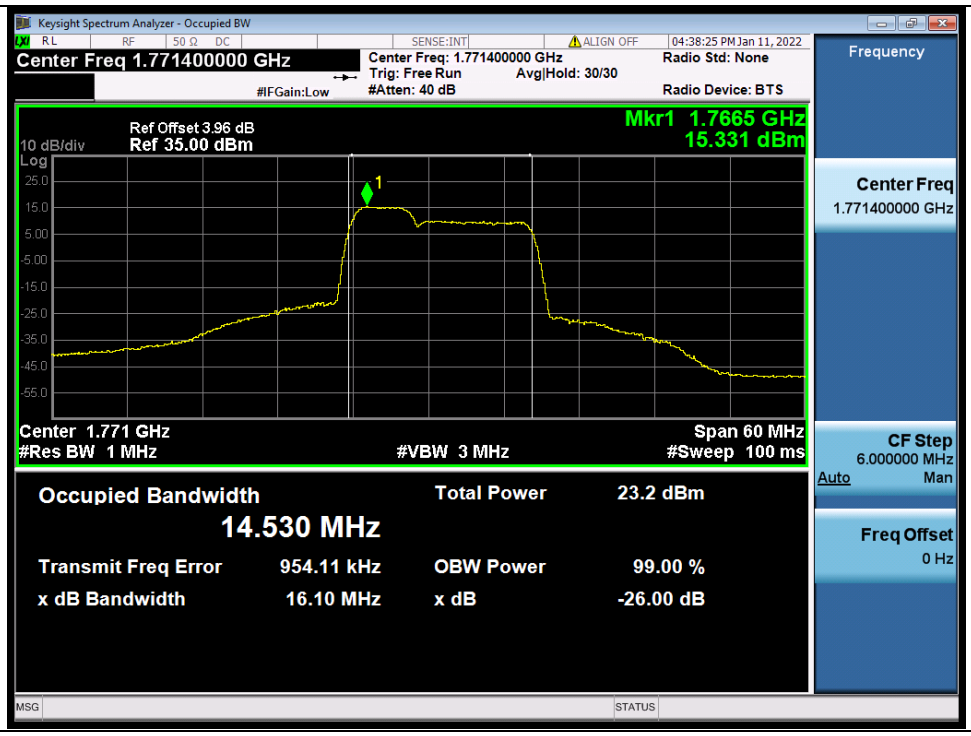
Band_66B_5MHz+10MHz_64QAM_LCH_NTNV



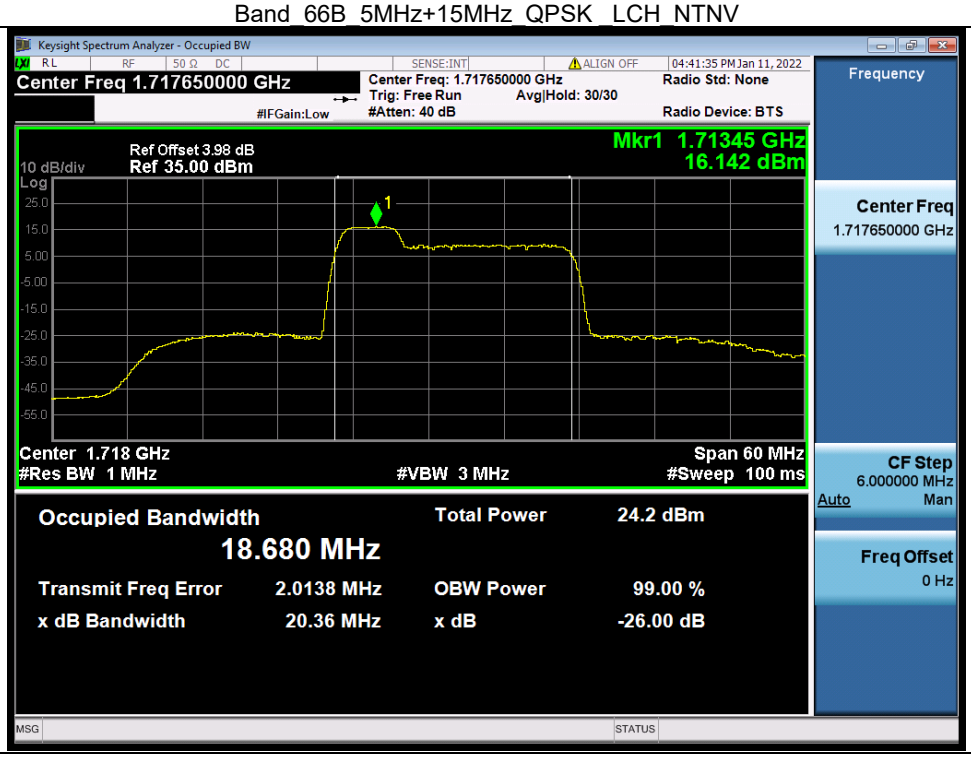
Band_66B_5MHz+10MHz_64QAM_MCH_NTNV



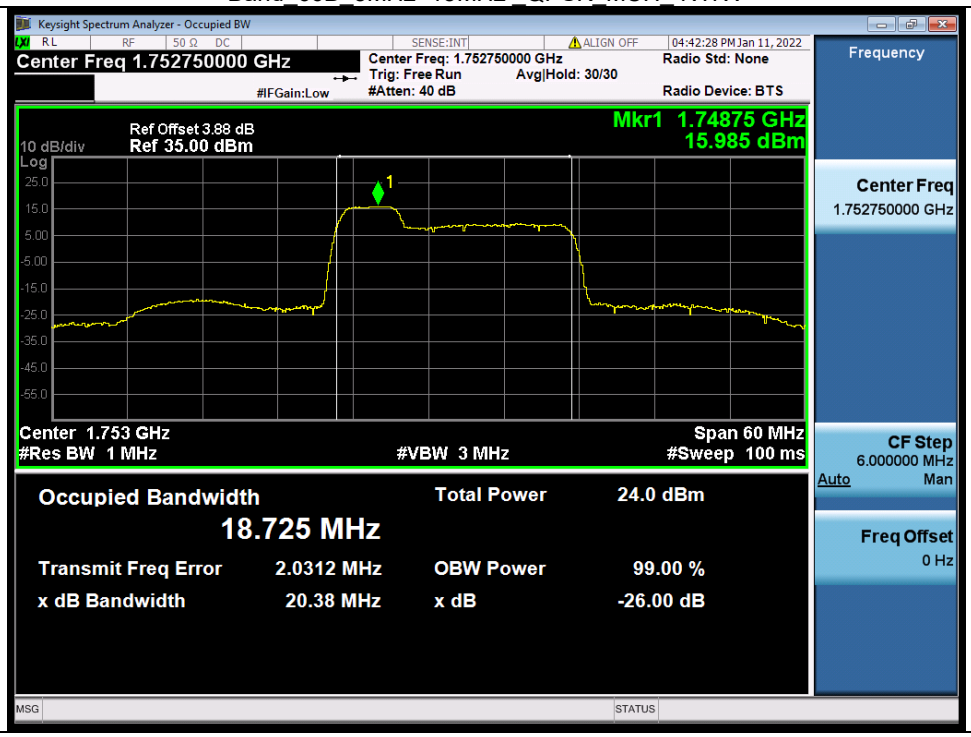
Band_66B_5MHz+10MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.771400000 GHz
Center Freq: 1.771400000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
04:38:25 PM Jan 11, 2022
Frequency
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.7665 GHz
15.331 dBm
Center 1.771 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
14.530 MHz
Total Power 23.2 dBm
Transmit Freq Error 954.11 kHz
OBW Power 99.00 %
x dB Bandwidth 16.10 MHz
x dB -26.00 dB
Center Freq
1.771400000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

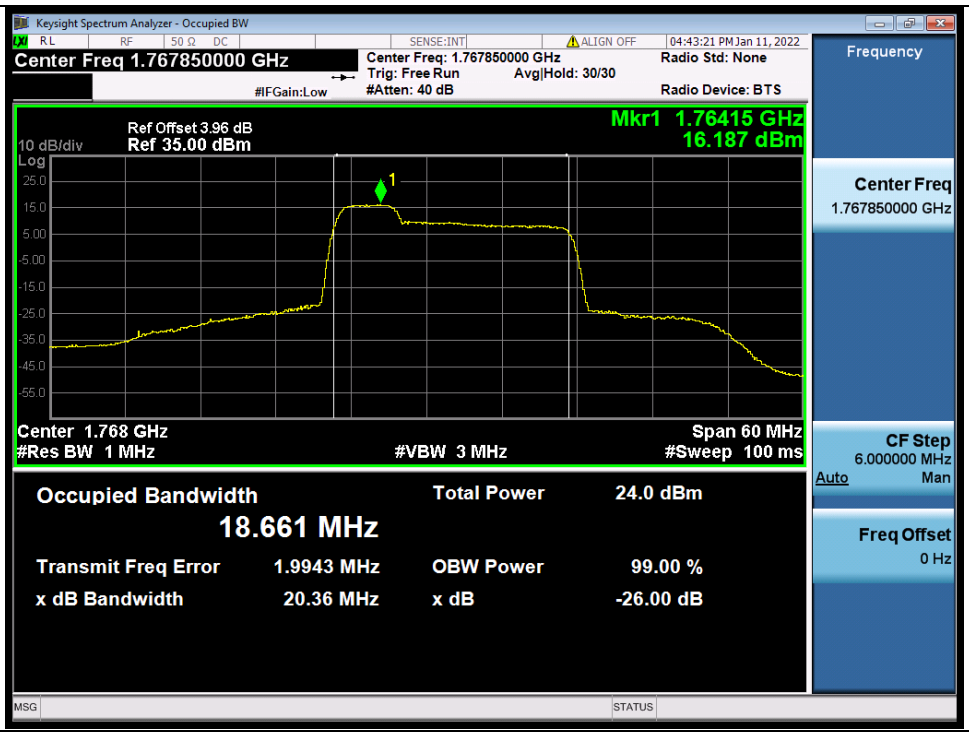
Band_66B_5MHz+15MHz_QPSK_LCH_NTNV



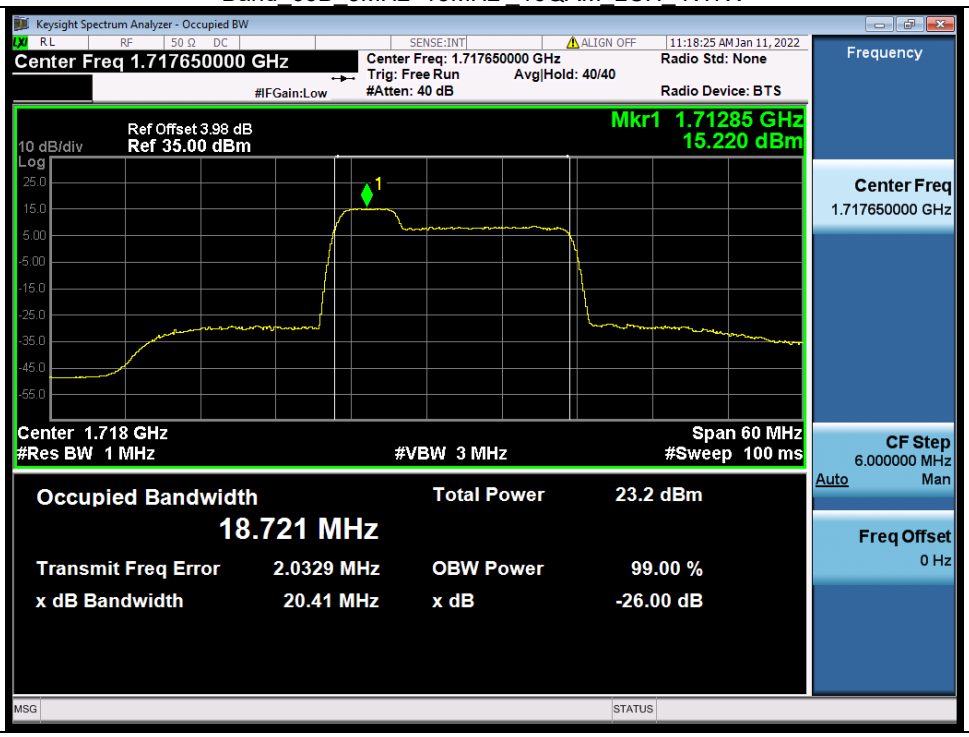
Band_66B_5MHz+15MHz_QPSK_MCH_NTNV



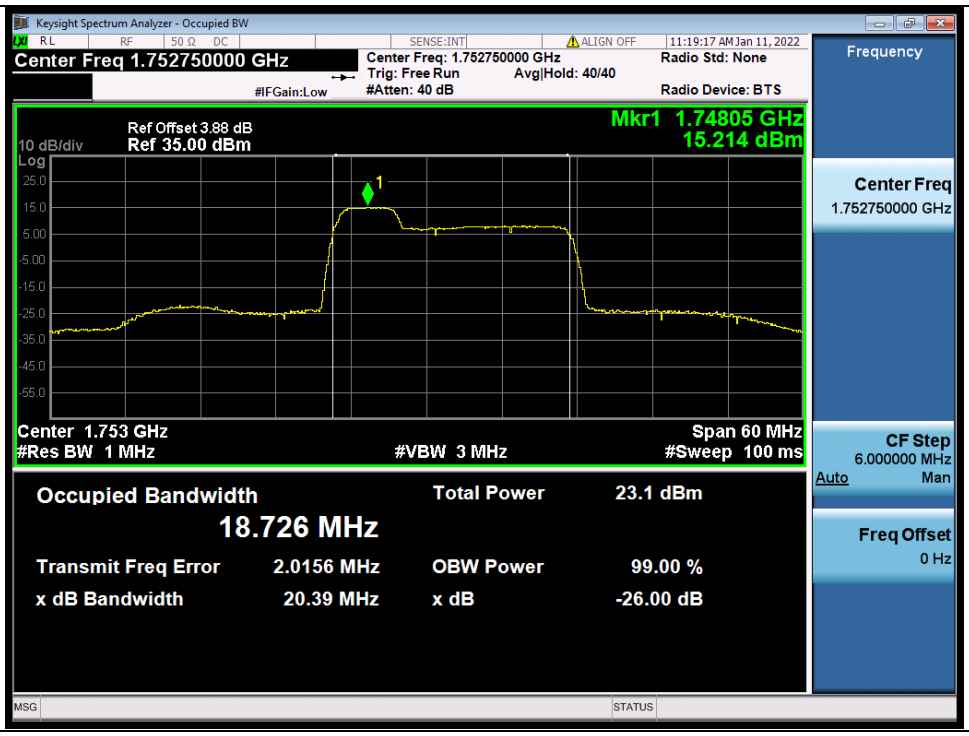
Band_66B_5MHz+15MHz_QPSK_HCH_NTNV



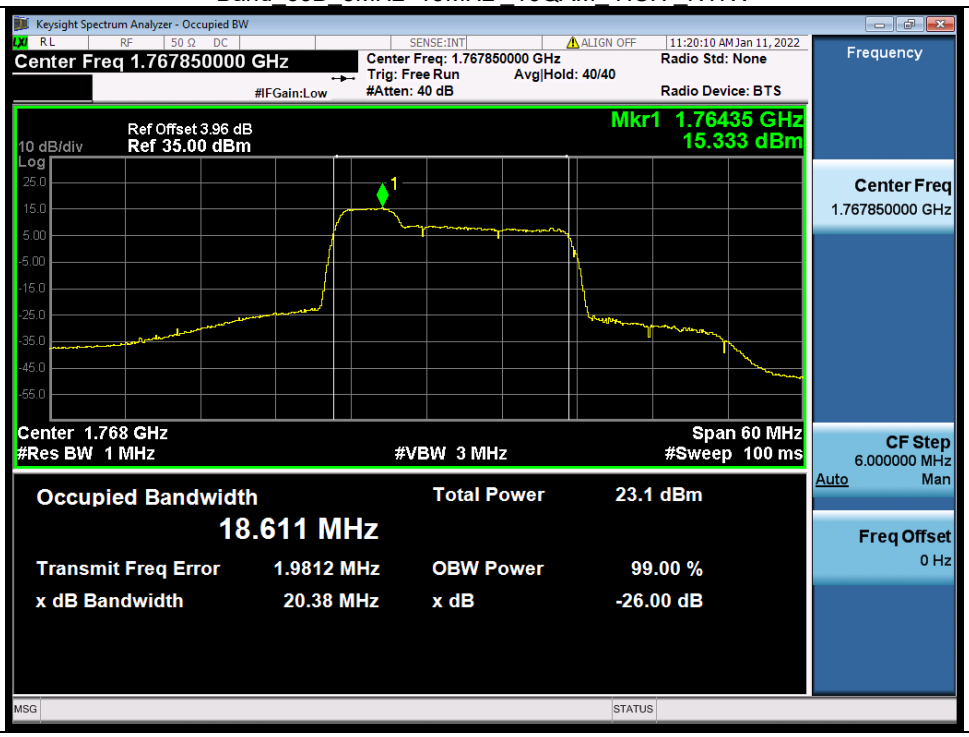
Band_66B_5MHz+15MHz_16QAM_LCH_NTNV



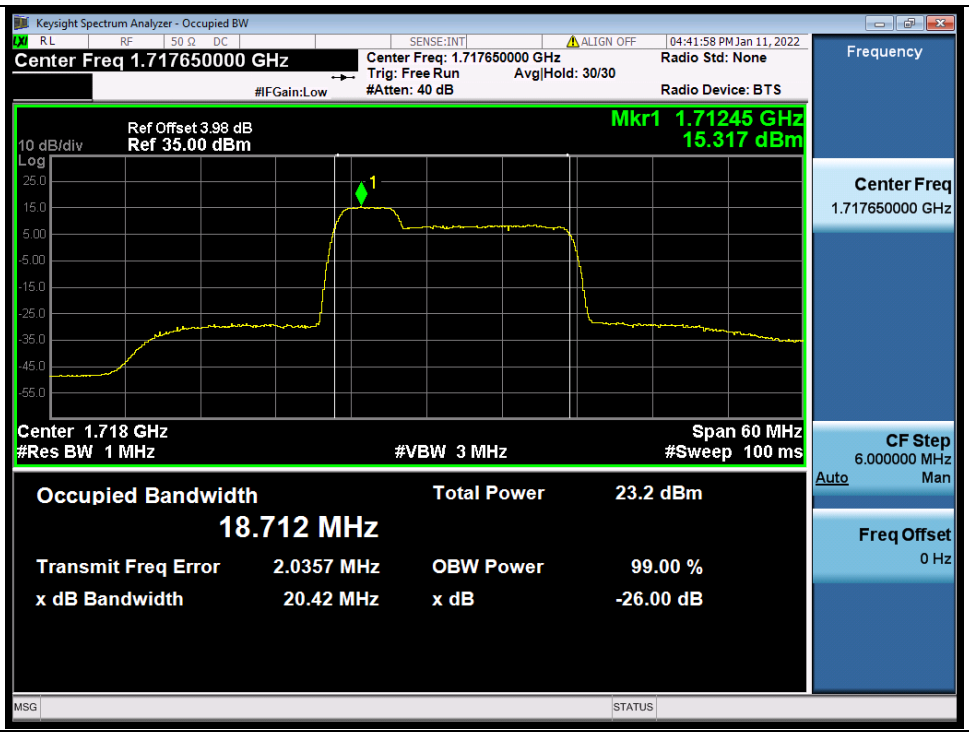
Band_66B_5MHz+15MHz_16QAM_MCH_NTNV



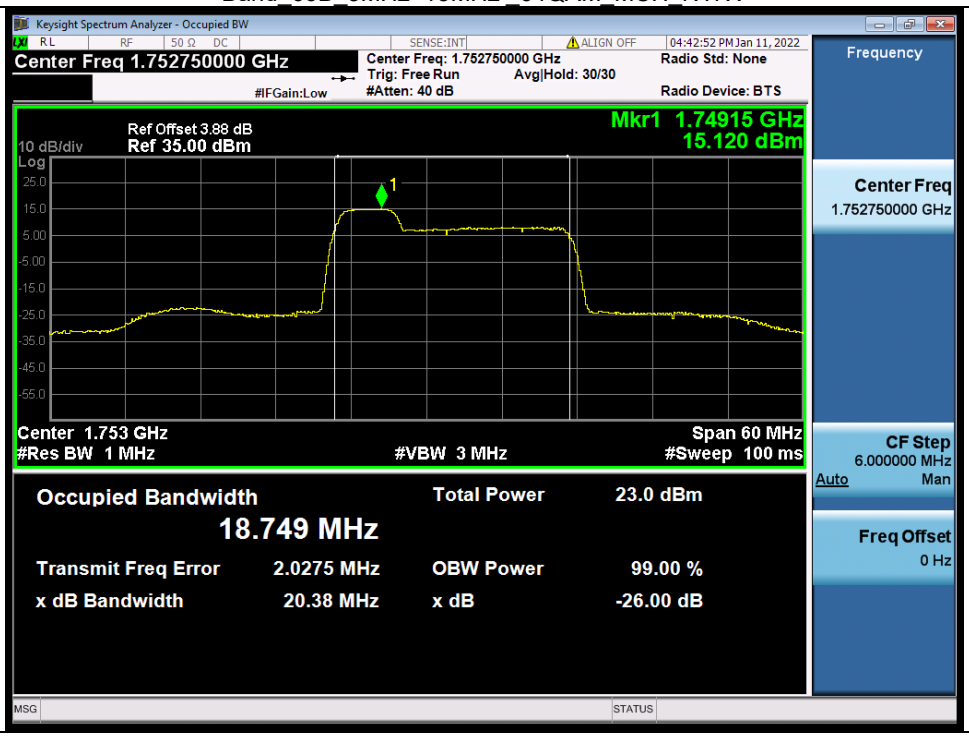
Band_66B_5MHz+15MHz_16QAM_HCH_NTNV



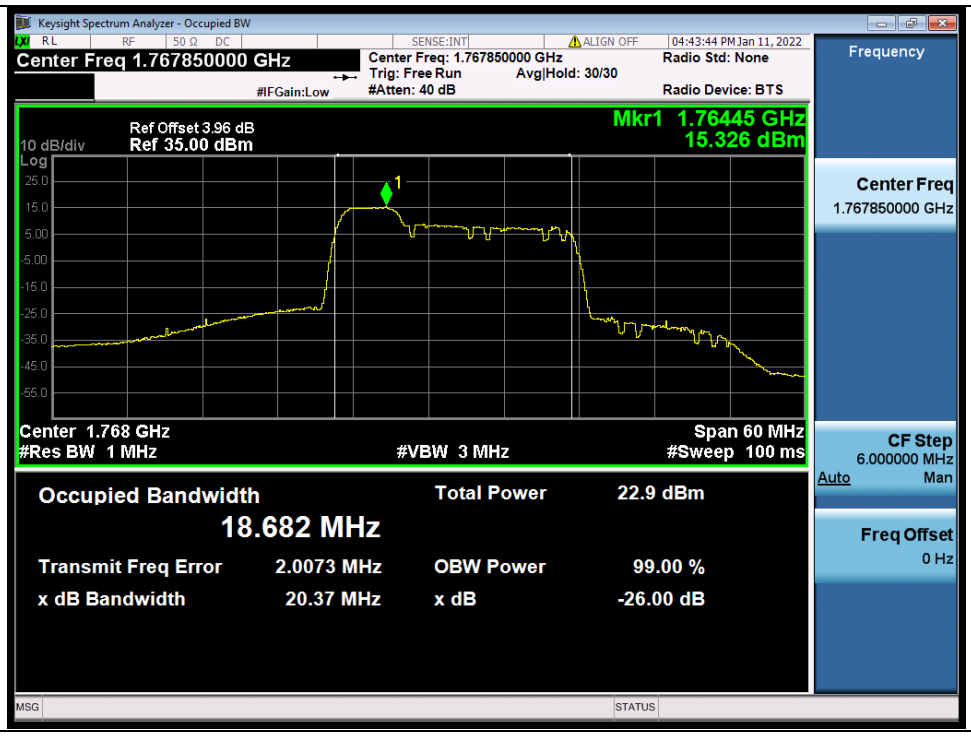
Band_66B_5MHz+15MHz_64QAM_LCH_NTNV



Band_66B_5MHz+15MHz_64QAM_MCH_NTNV

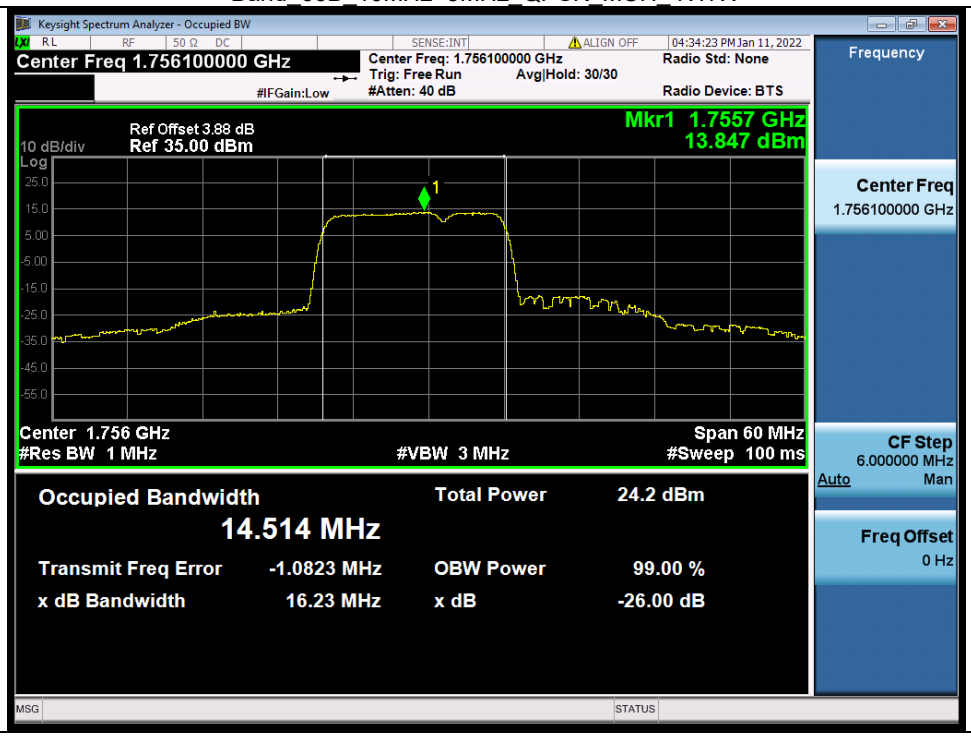


Band_66B_5MHz+15MHz_64QAM_HCH_NTNV

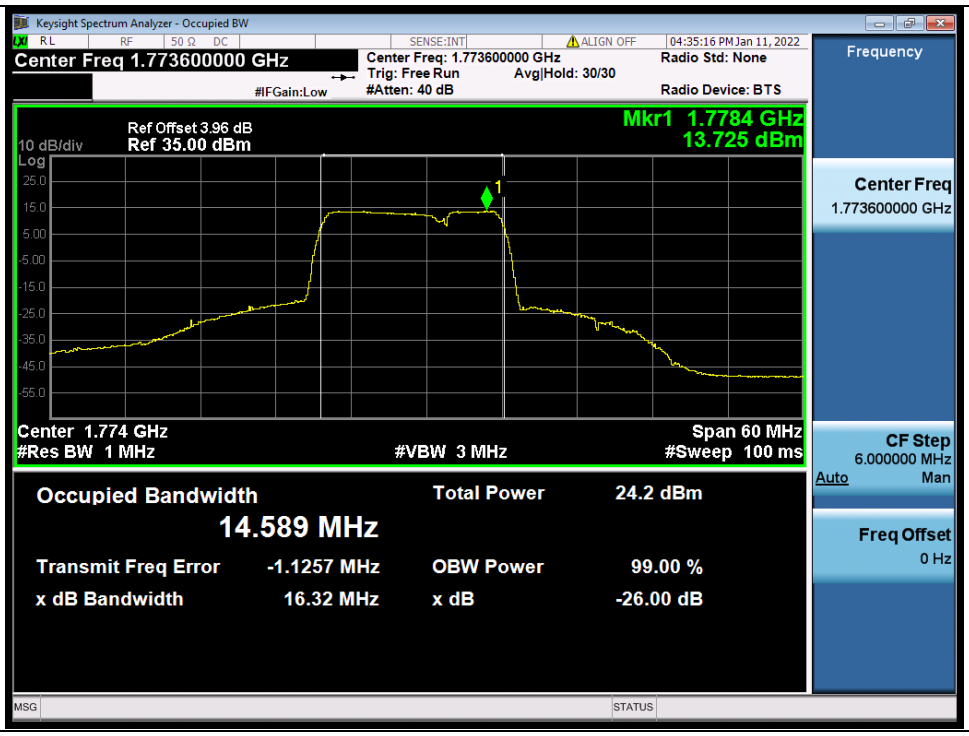

Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.767850000 GHz
Center Freq: 1.767850000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
04:43:44 PM Jan 11, 2022
Frequency
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.76445 GHz
15.326 dBm
Center 1.768 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
18.682 MHz
Total Power 22.9 dBm
Transmit Freq Error 2.0073 MHz
OBW Power 99.00 %
x dB Bandwidth 20.37 MHz
x dB -26.00 dB
Center Freq
1.767850000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

Band_66B_10MHz+5MHz_QPSK_LCH_NTNV

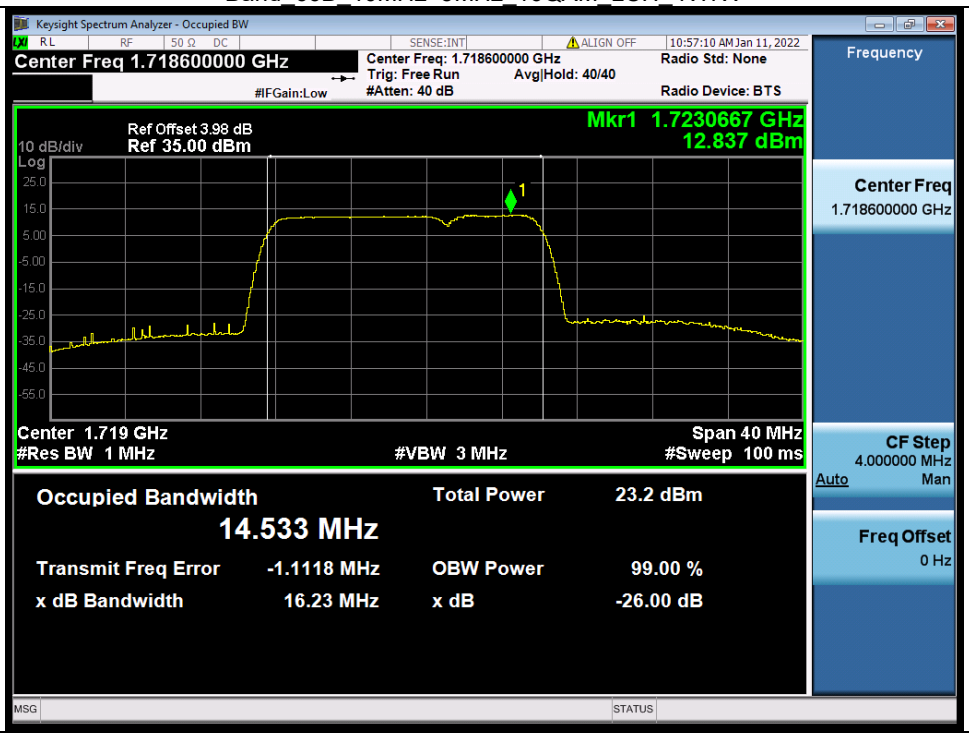
Band_66B_10MHz+5MHz_QPSK_MCH_NTNV



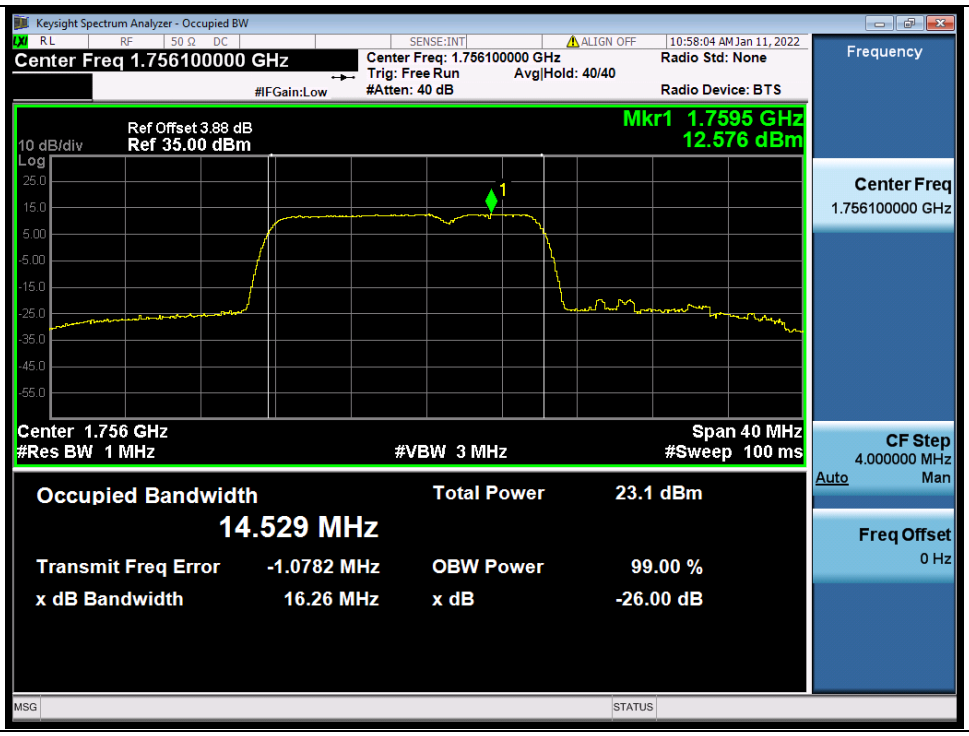
Band_66B_10MHz+5MHz_QPSK_HCH_NTNV



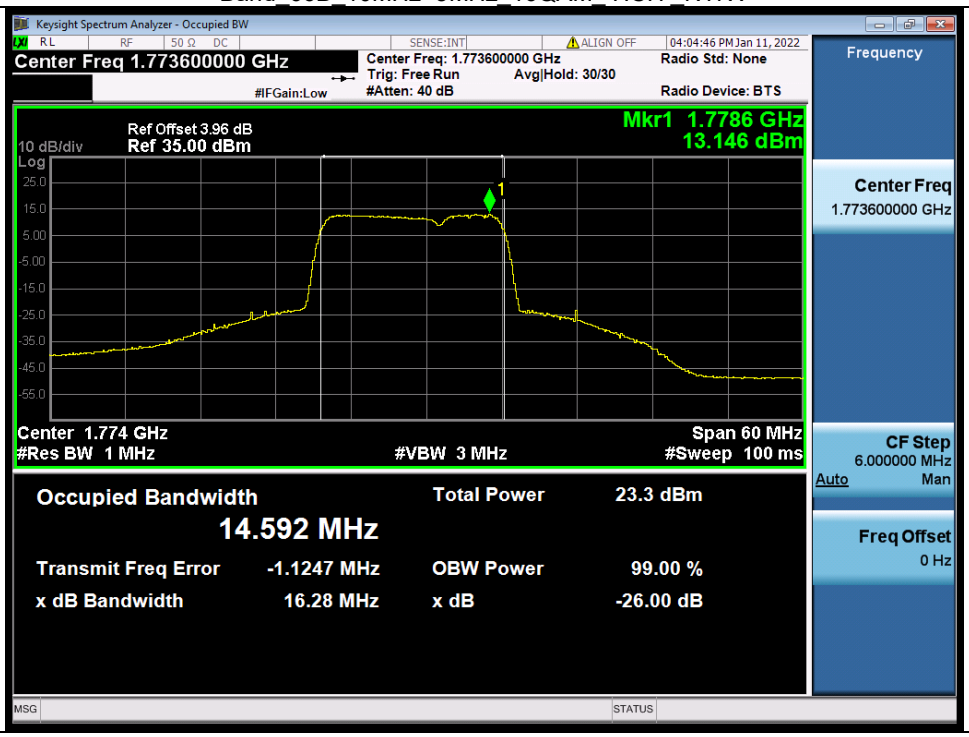
Band_66B_10MHz+5MHz_16QAM_LCH_NTNV



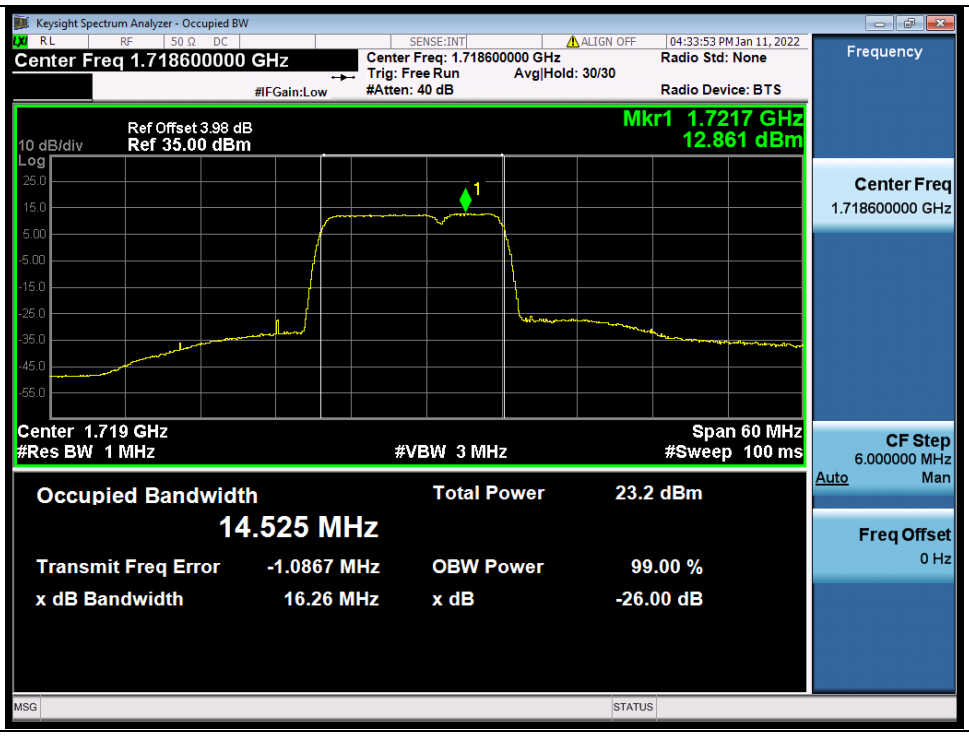
Band_66B_10MHz+5MHz_16QAM_MCH_NTNV



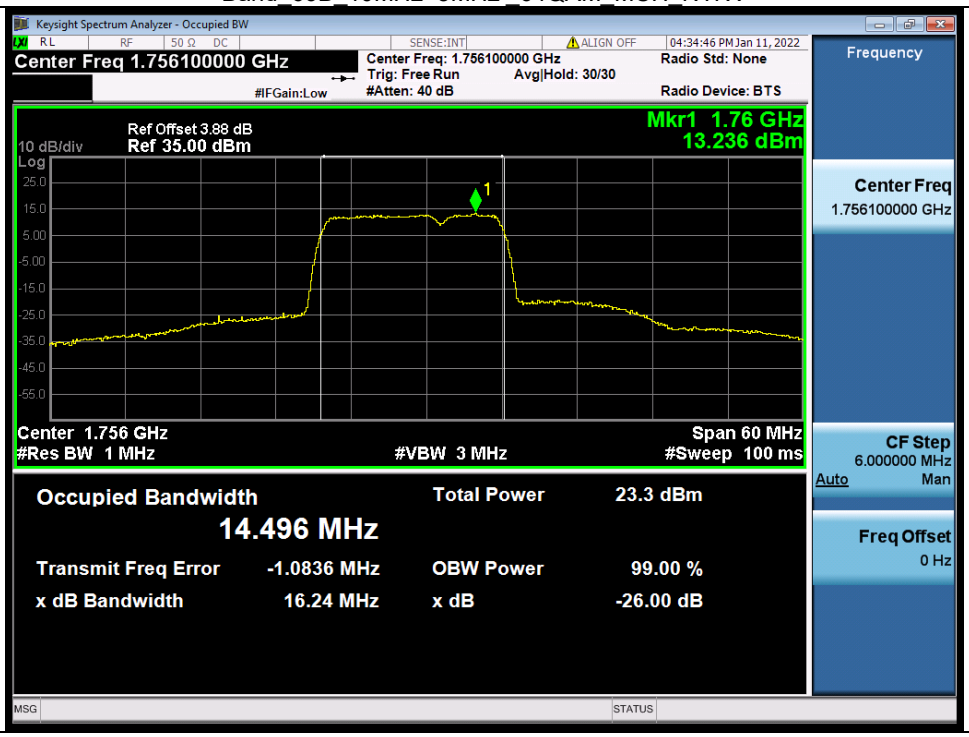
Band_66B_10MHz+5MHz_16QAM_HCH_NTNV



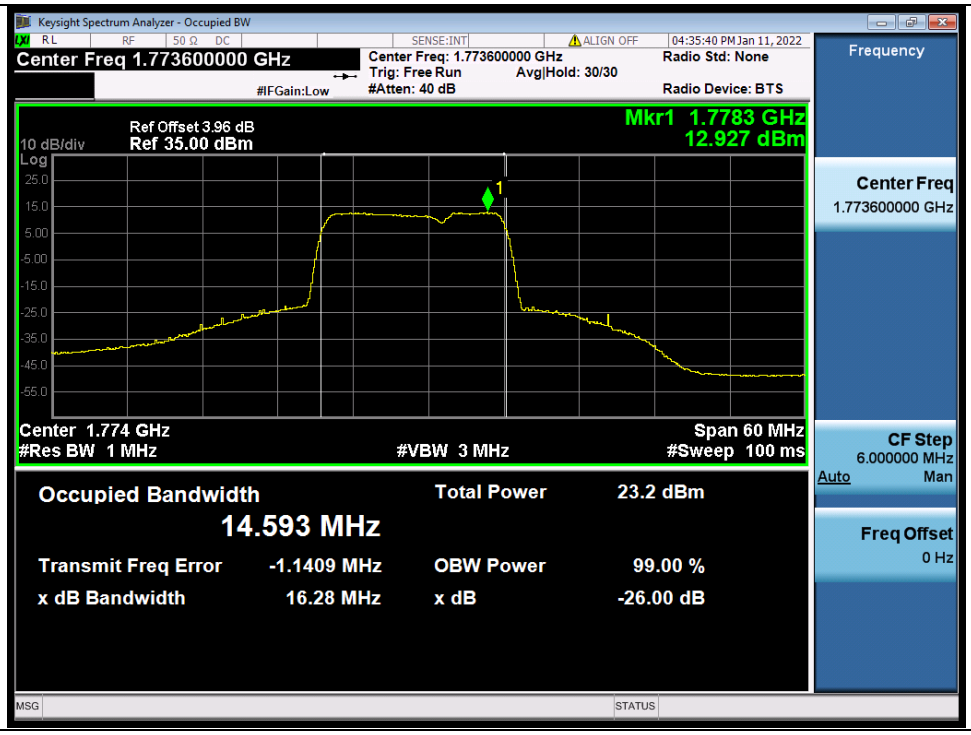
Band_66B_10MHz+5MHz_64QAM_LCH_NTNV



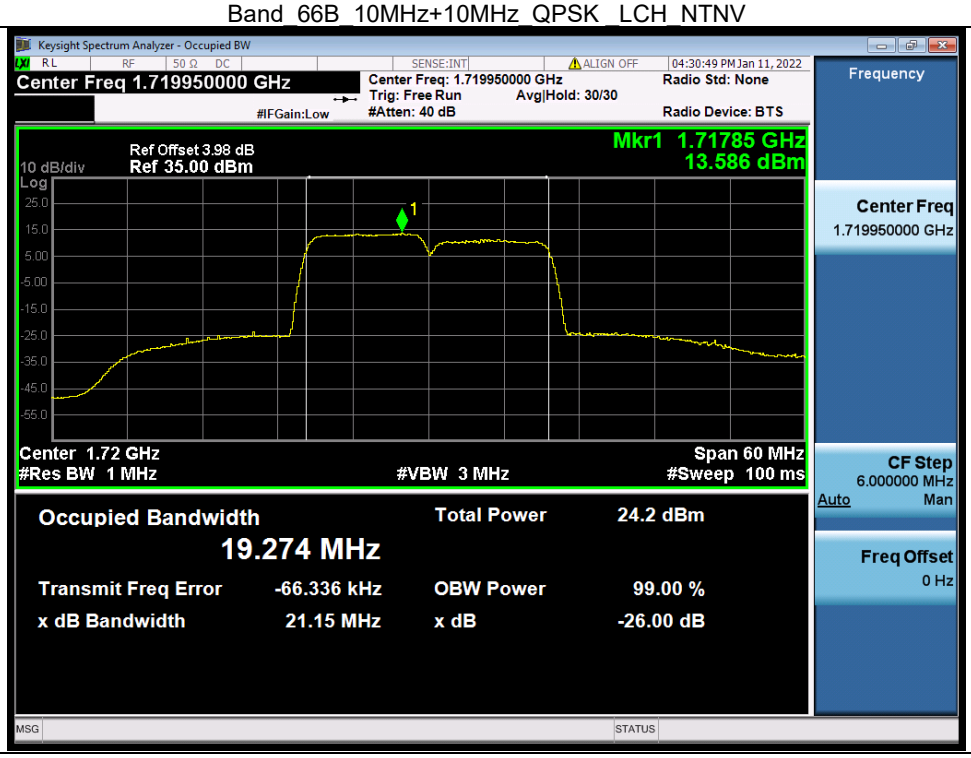
Band_66B_10MHz+5MHz_64QAM_MCH_NTNV



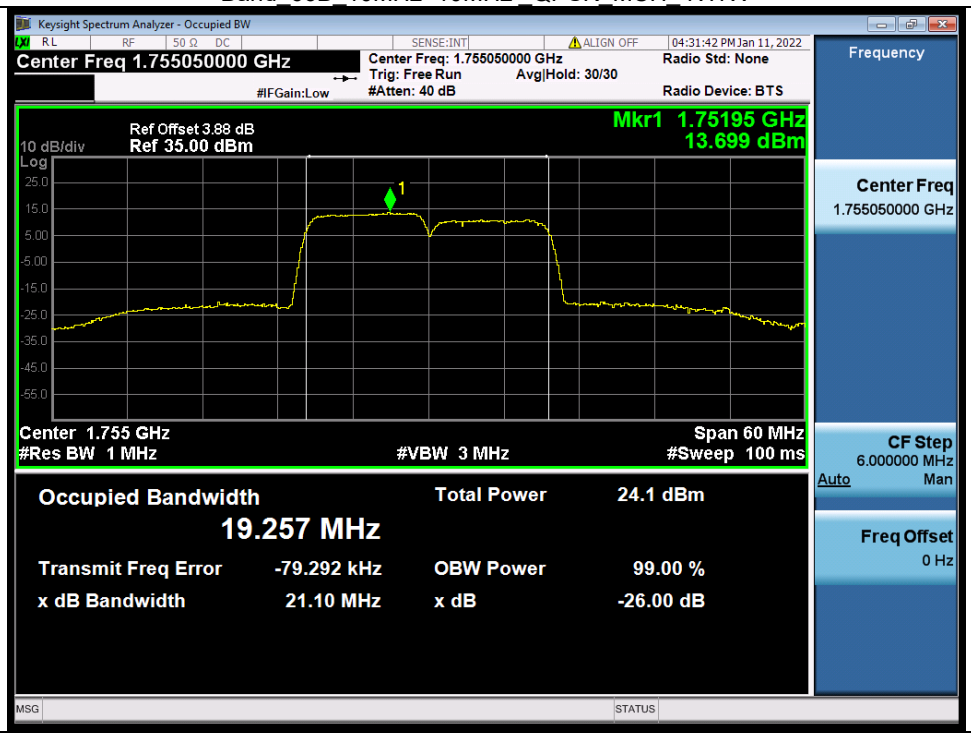
Band_66B_10MHz+5MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.773600000 GHz
Center Freq: 1.773600000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
04:35:40 PM Jan 11, 2022
Frequency
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.7783 GHz
12.927 dBm
Center 1.774 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
14.593 MHz
Total Power 23.2 dBm
Transmit Freq Error -1.1409 MHz
OBW Power 99.00 %
x dB Bandwidth 16.28 MHz
x dB -26.00 dB
Center Freq
1.773600000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

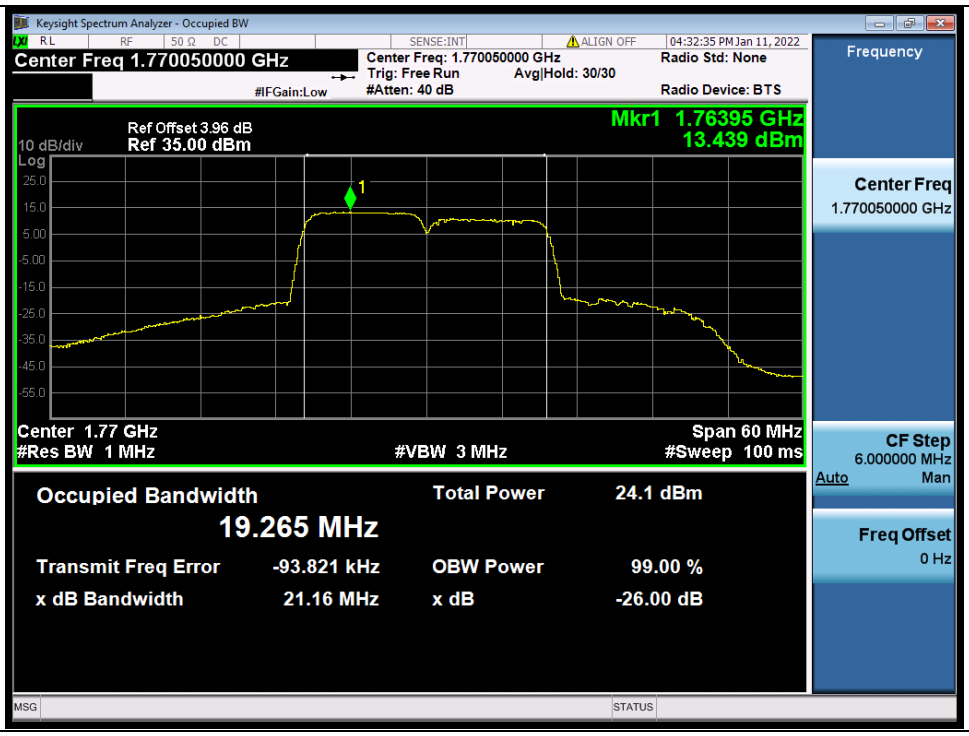
Band_66B_10MHz+10MHz_QPSK_LCH_NTNV



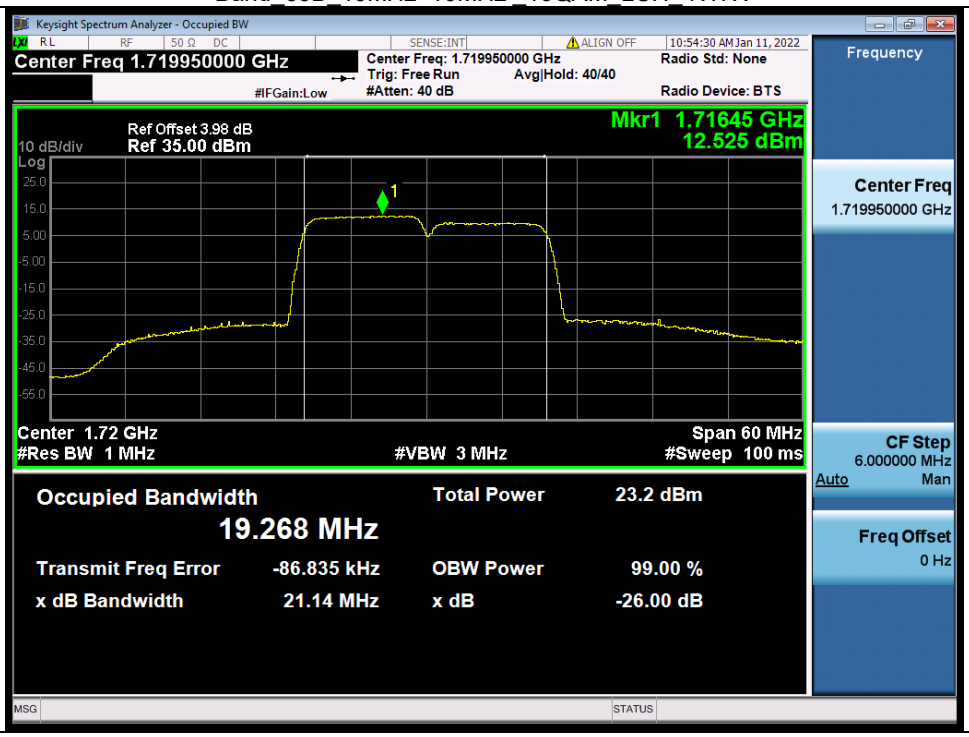
Band_66B_10MHz+10MHz_QPSK_MCH_NTNV



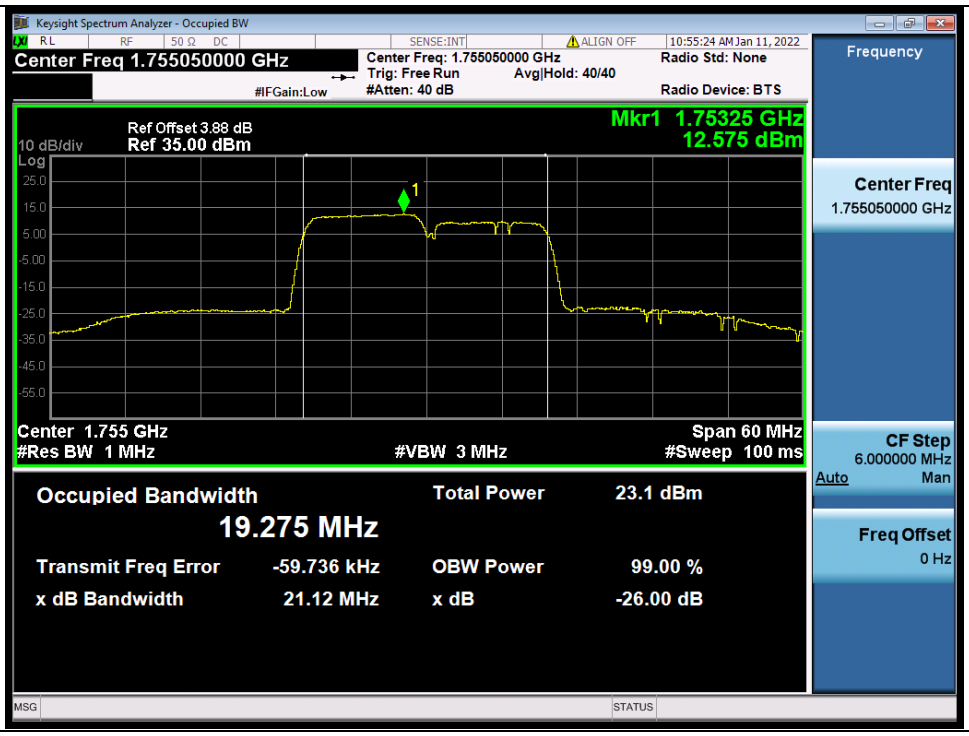
Band_66B_10MHz+10MHz_QPSK_HCH_NTNV



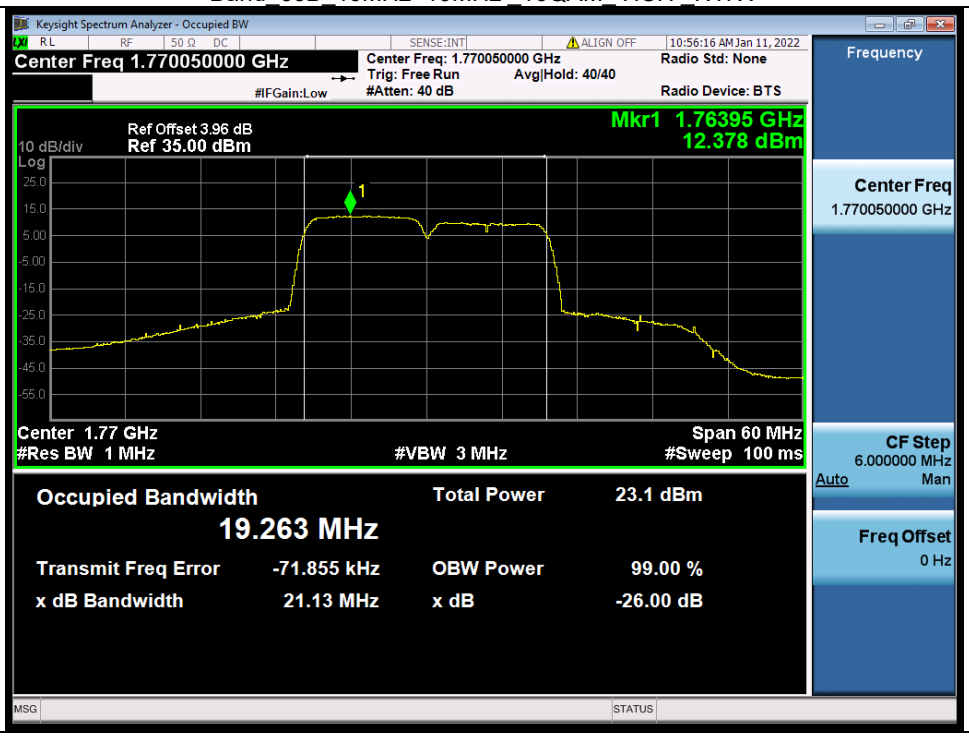
Band_66B_10MHz+10MHz_16QAM_LCH_NTNV



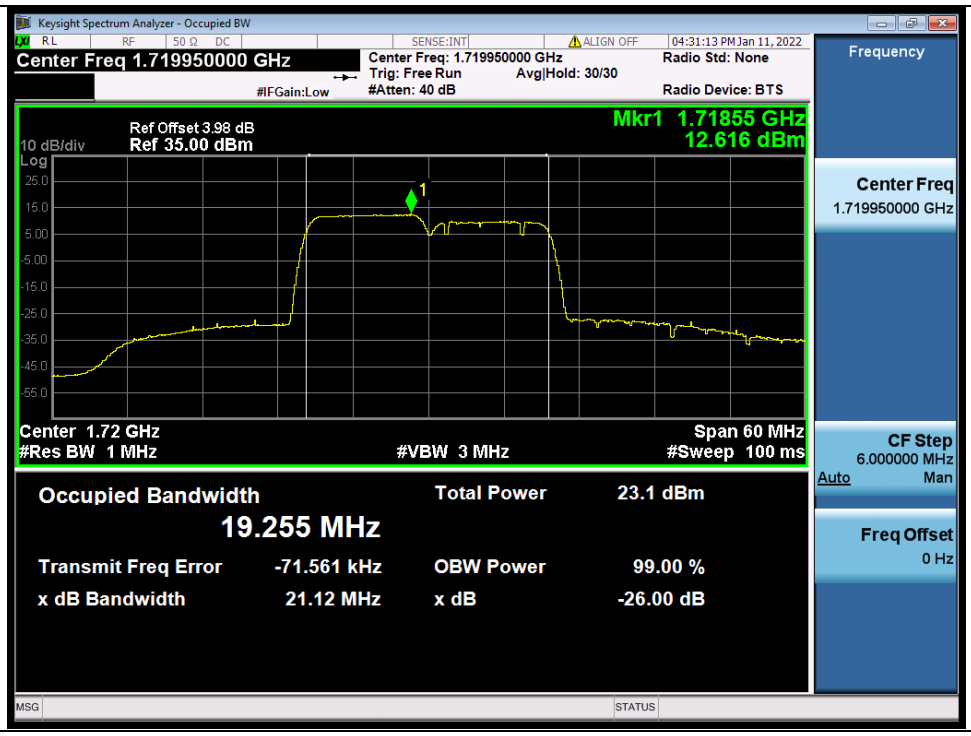
Band_66B_10MHz+10MHz_16QAM_MCH_NTNV



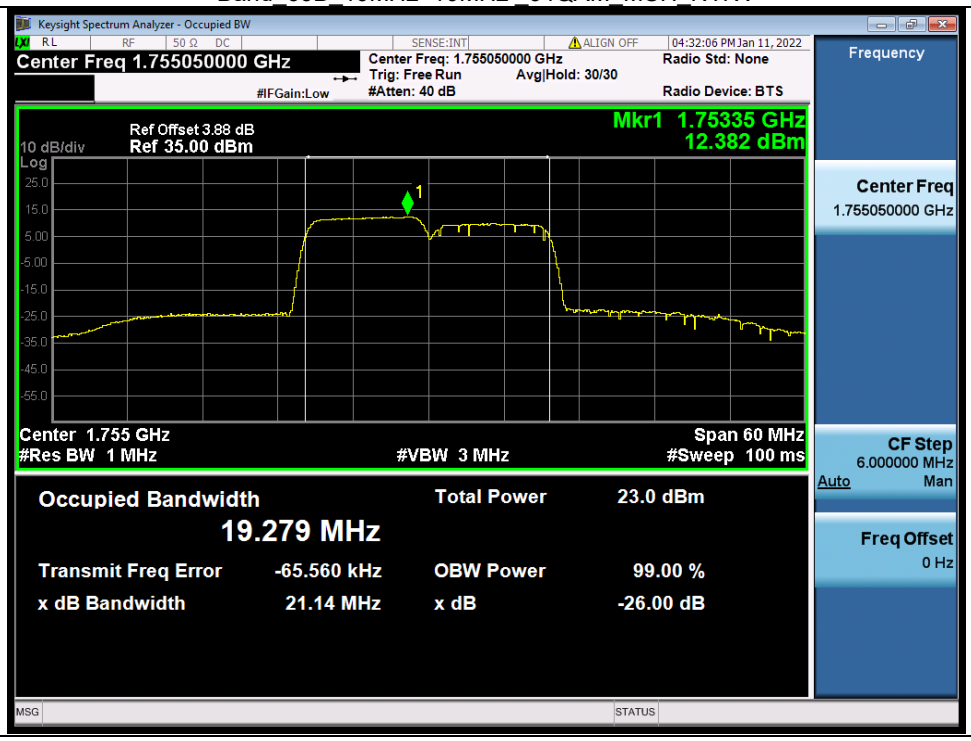
Band_66B_10MHz+10MHz_16QAM_HCH_NTNV



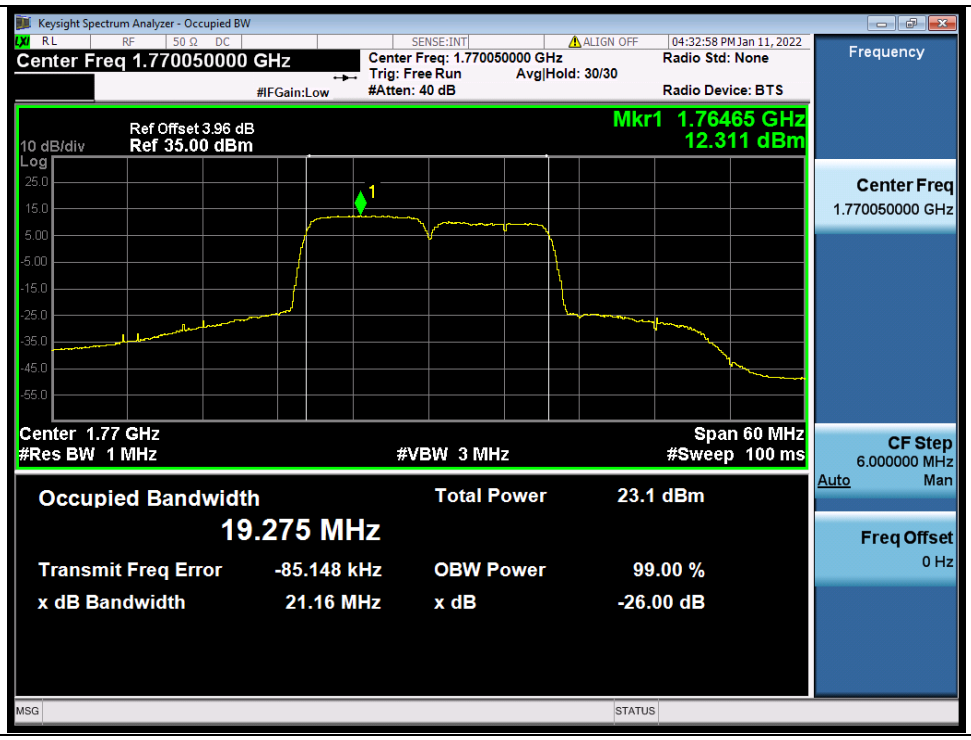
Band_66B_10MHz+10MHz_64QAM_LCH_NTNV



Band_66B_10MHz+10MHz_64QAM_MCH_NTNV

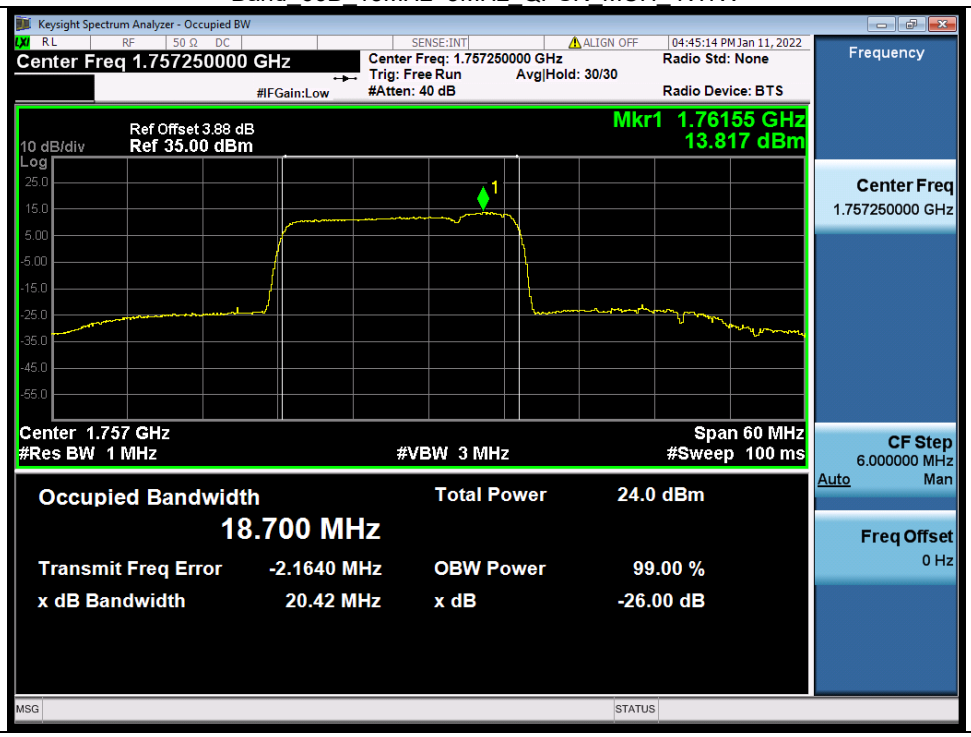


Band_66B_10MHz+10MHz_64QAM_HCH_NTNV

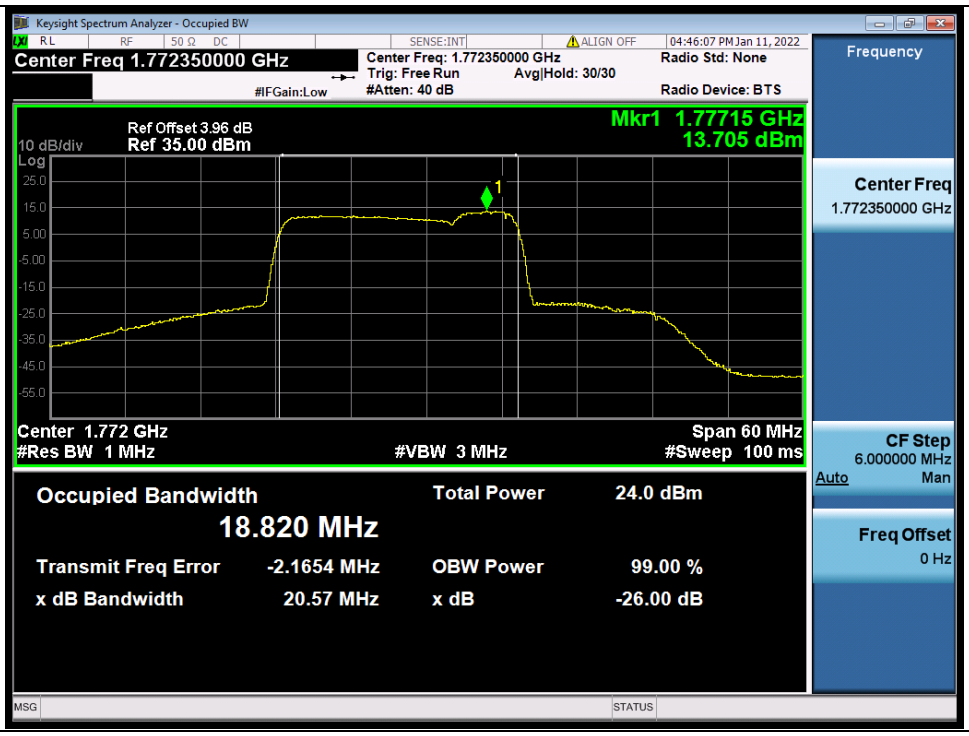

Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.770050000 GHz
Center Freq: 1.770050000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.76465 GHz
12.311 dBm
Center 1.77 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
19.275 MHz
Total Power 23.1 dBm
Transmit Freq Error -85.148 kHz
OBW Power 99.00 %
x dB Bandwidth 21.16 MHz
x dB -26.00 dB
Frequency
Center Freq
1.770050000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

Band_66B_15MHz+5MHz_QPSK_LCH_NTNV

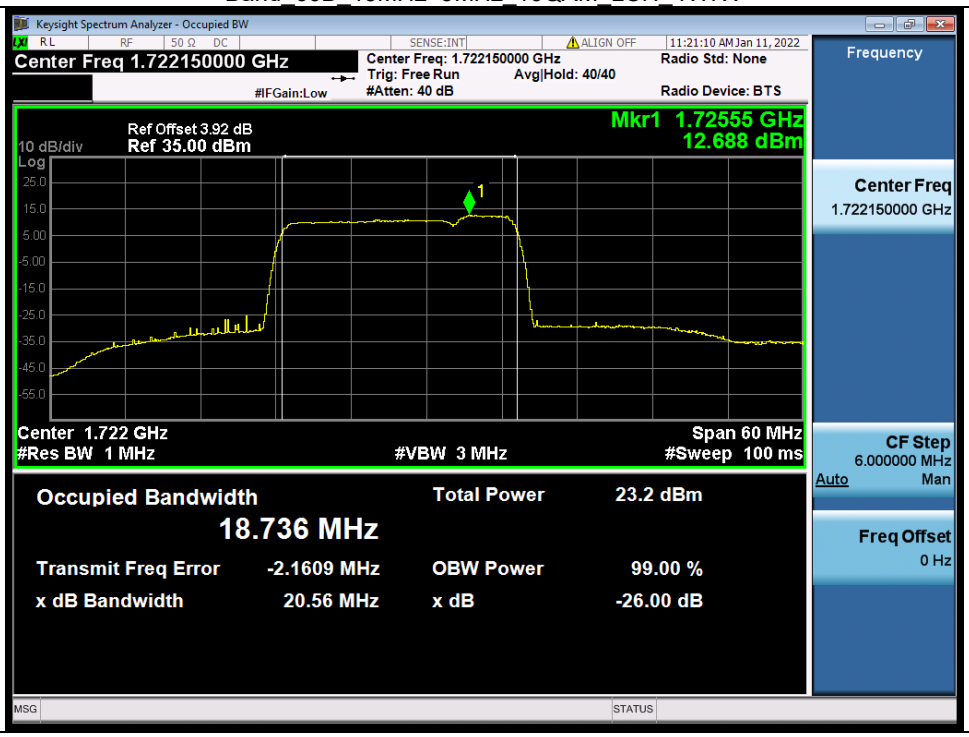
Band_66B_15MHz+5MHz_QPSK_MCH_NTNV



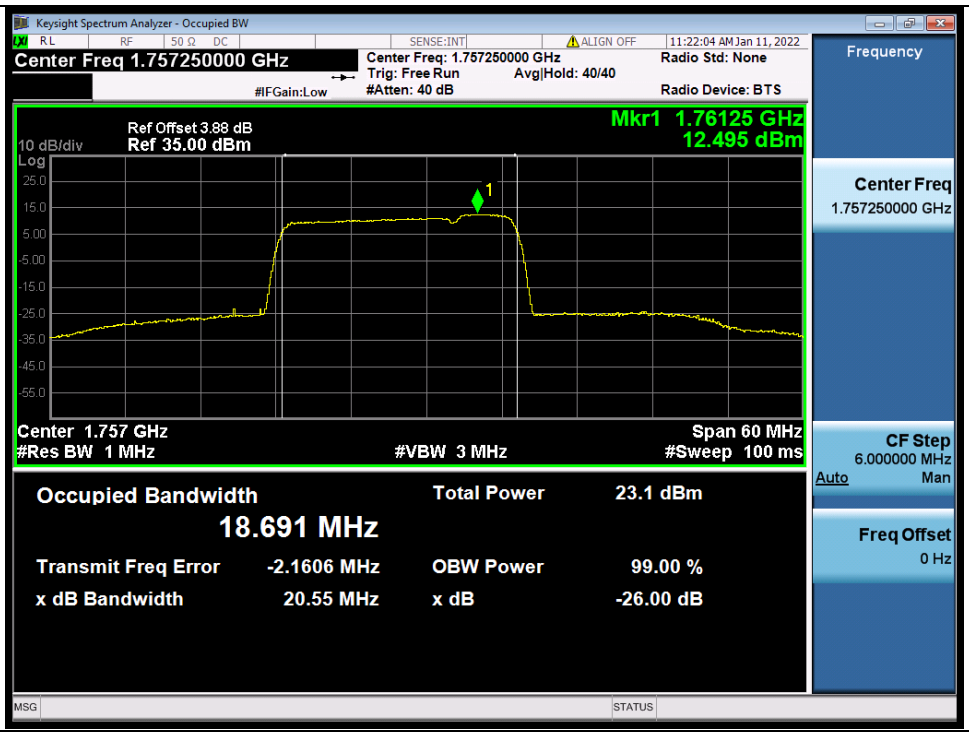
Band_66B_15MHz+5MHz_QPSK_HCH_NTNV



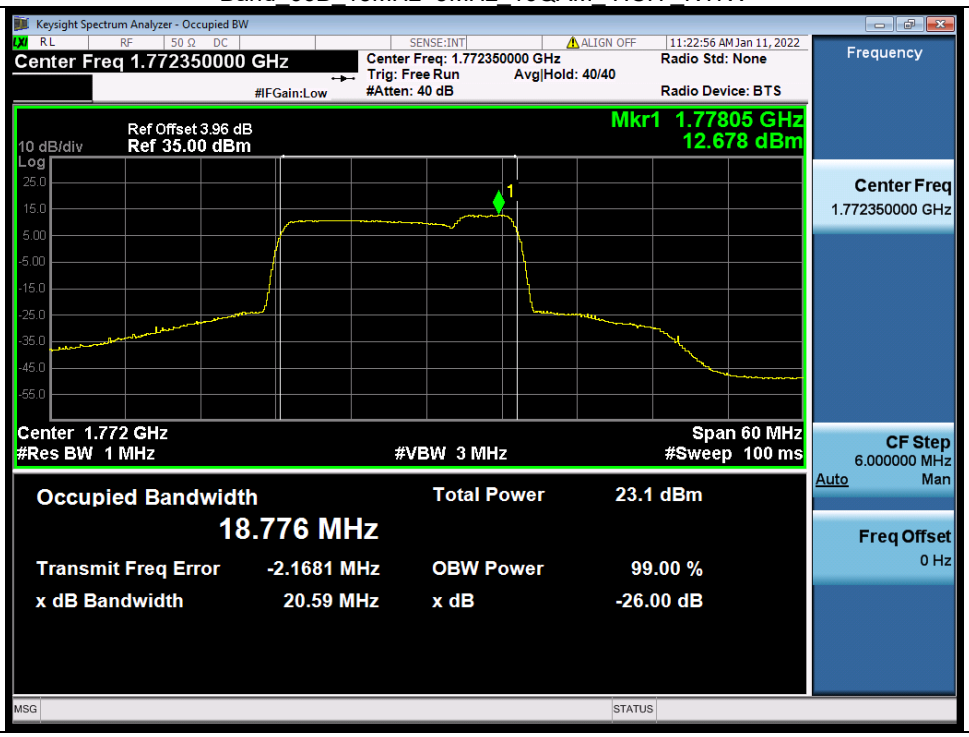
Band_66B_15MHz+5MHz_16QAM_LCH_NTNV



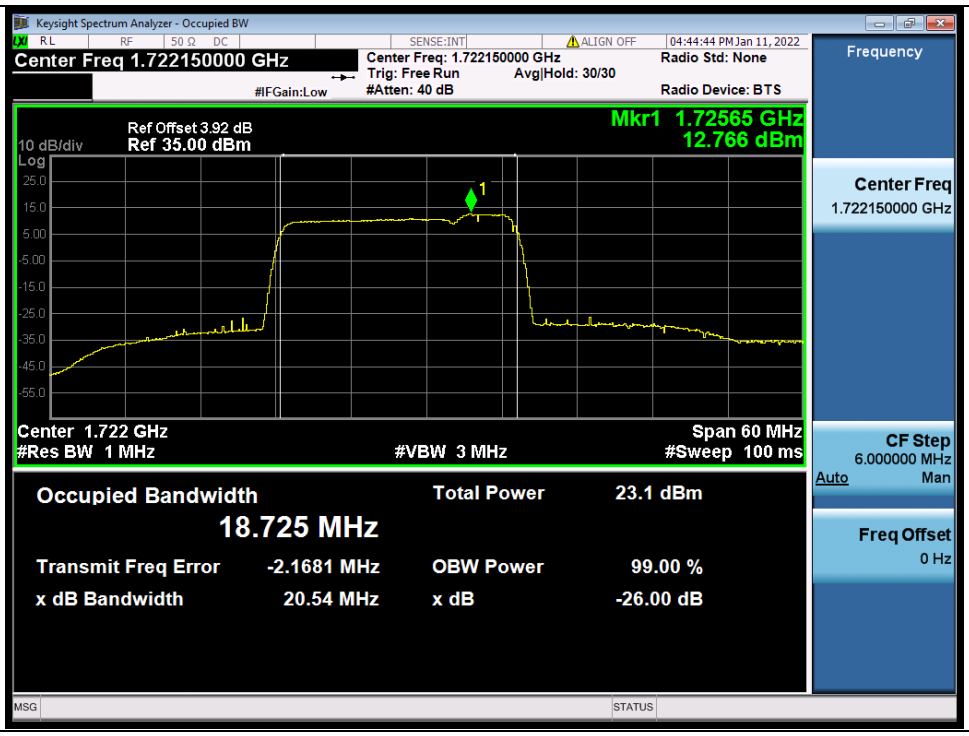
Band_66B_15MHz+5MHz_16QAM_MCH_NTNV



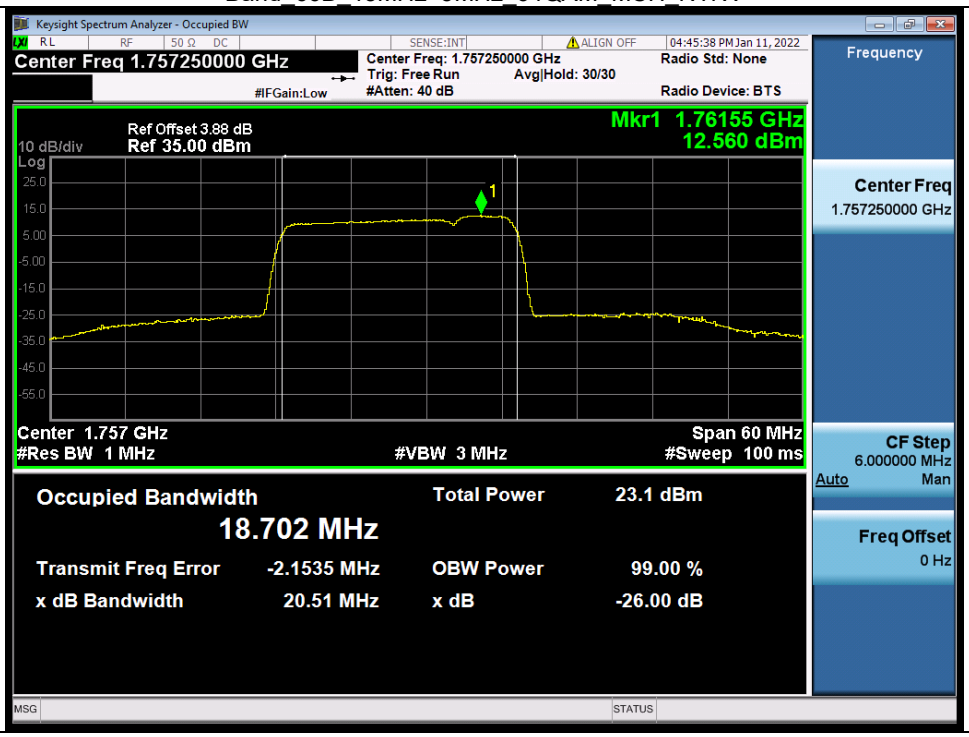
Band_66B_15MHz+5MHz_16QAM_HCH_NTNV



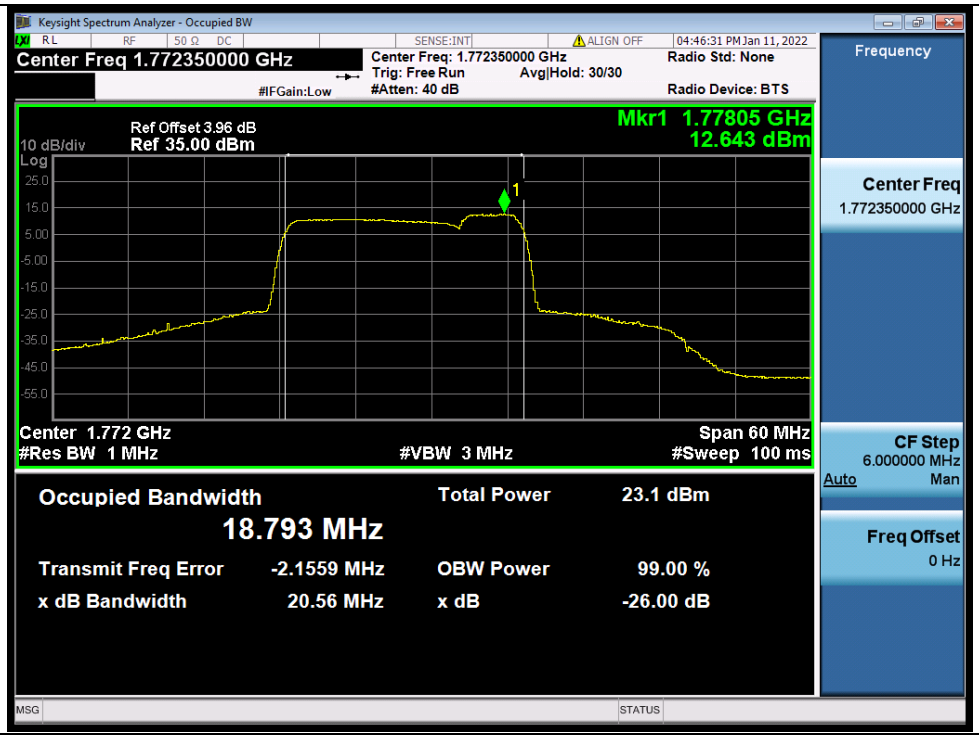
Band_66B_15MHz+5MHz_64QAM_LCH_NTNV



Band_66B_15MHz+5MHz_64QAM_MCH_NTNV



Band_66B_15MHz+5MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 1.772350000 GHz
Center Freq: 1.772350000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
04:46:31 PM Jan 11, 2022
Frequency
Ref Offset 3.96 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.77805 GHz
12.643 dBm
Center 1.772 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
18.793 MHz
Total Power 23.1 dBm
Transmit Freq Error -2.1559 MHz
OBW Power 99.00 %
x dB Bandwidth 20.56 MHz
x dB -26.00 dB
Center Freq
1.772350000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

1.2 LTE 7C

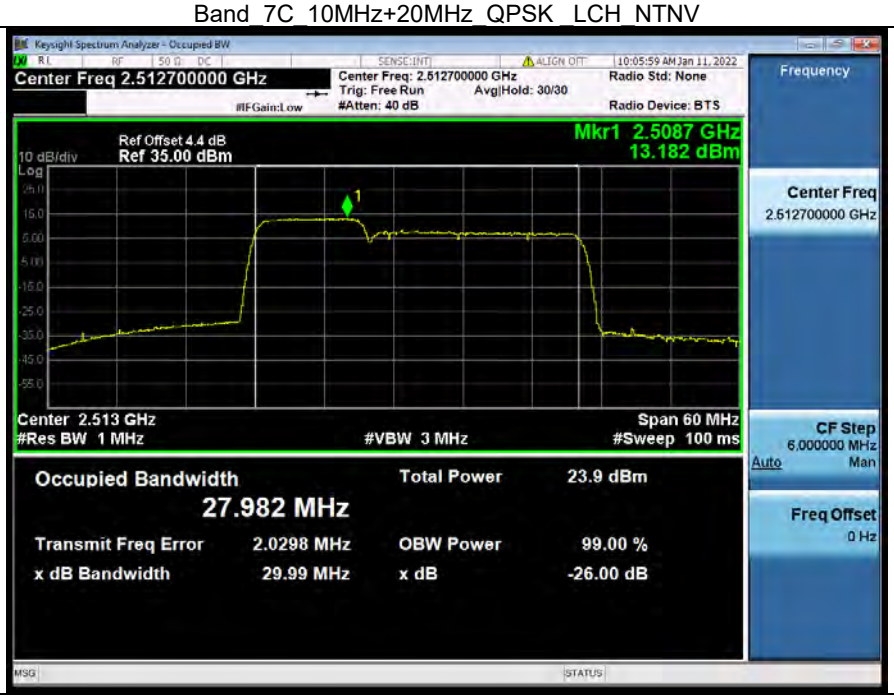
1.2.1 Test Result

Band: 7C / Bandwidth: 10MHz+20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	27.98	27.94	27.99	/	Pass
16QAM	FULL	0	27.99	27.96	28.02	/	Pass
64QAM	FULL	0	27.98	27.95	28.03	/	Pass
Band: 7C / Bandwidth: 15MHz+10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	23.49	23.47	23.49	/	Pass
16QAM	FULL	0	23.45	23.45	23.55	/	Pass
64QAM	FULL	0	23.46	23.47	23.54	/	Pass
Band: 7C / Bandwidth: 15MHz+15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	28.58	28.52	28.61	/	Pass
16QAM	FULL	0	28.59	28.51	28.64	/	Pass
64QAM	FULL	0	28.59	28.55	28.60	/	Pass
Band: 7C / Bandwidth: 15MHz+20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	32.74	32.71	32.77	/	Pass
16QAM	FULL	0	32.82	32.71	32.61	/	Pass
64QAM	FULL	0	32.85	32.72	32.78	/	Pass
Band: 7C / Bandwidth: 20MHz+10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	28.05	28.01	28.10	/	Pass
16QAM	FULL	0	28.01	27.97	28.10	/	Pass
64QAM	FULL	0	28.04	28.03	28.10	/	Pass
Band: 7C / Bandwidth: 20MHz+15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	32.89	32.76	32.83	/	Pass
16QAM	FULL	0	32.84	32.77	32.89	/	Pass
64QAM	FULL	0	32.85	32.81	32.90	/	Pass
Band: 7C / Bandwidth: 20MHz+20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	37.69	37.58	37.68	/	Pass
16QAM	FULL	0	37.65	37.50	37.64	/	Pass
64QAM	FULL	0	37.66	37.59	37.66	/	Pass

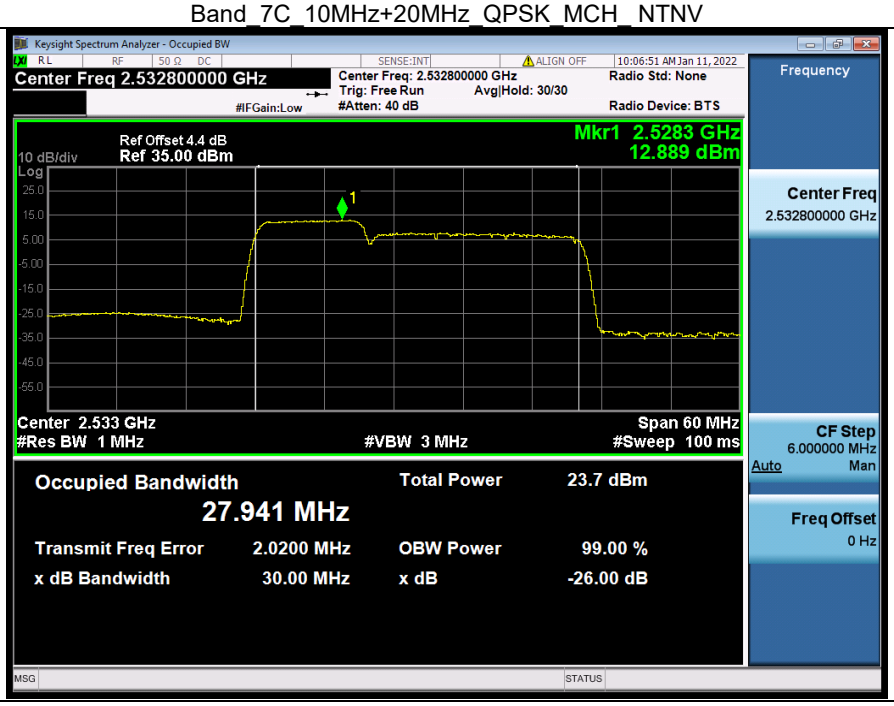
Band: 7C / Bandwidth: 10MHz+20MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	29.99	30.00	30.04	/	Pass
16QAM	FULL	0	30.02	29.98	30.06	/	Pass
64QAM	FULL	0	30.02	30.00	30.05	/	Pass
Band: 7C / Bandwidth: 15MHz+10MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	25.51	25.48	25.53	/	Pass
16QAM	FULL	0	25.49	25.48	25.54	/	Pass
64QAM	FULL	0	25.51	25.50	25.55	/	Pass
Band: 7C / Bandwidth: 15MHz+15MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	30.72	30.69	30.74	/	Pass
16QAM	FULL	0	30.72	30.70	30.74	/	Pass
64QAM	FULL	0	30.73	30.71	30.72	/	Pass
Band: 7C / Bandwidth: 15MHz+20MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	35.02	34.99	34.99	/	Pass
16QAM	FULL	0	35.03	35.00	34.99	/	Pass
64QAM	FULL	0	35.03	35.00	35.00	/	Pass
Band: 7C / Bandwidth: 20MHz+10MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	30.02	30.14	30.21	/	Pass
16QAM	FULL	0	30.18	30.17	30.22	/	Pass
64QAM	FULL	0	30.19	30.12	30.21	/	Pass
Band: 7C / Bandwidth: 20MHz+15MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	35.16	35.07	35.09	/	Pass
16QAM	FULL	0	35.13	35.06	35.17	/	Pass
64QAM	FULL	0	35.17	35.08	35.12	/	Pass
Band: 7C / Bandwidth: 20MHz+20MHz / NTNV							
Modulation	RB Allocation		26dB Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	FULL	0	40.06	39.98	40.01	/	Pass
16QAM	FULL	0	40.03	39.94	40.01	/	Pass
64QAM	FULL	0	39.98	39.94	40.05	/	Pass

1.2.2 Test Graph

Band_7C_10MHz+20MHz_QPSK_LCH_NTNV

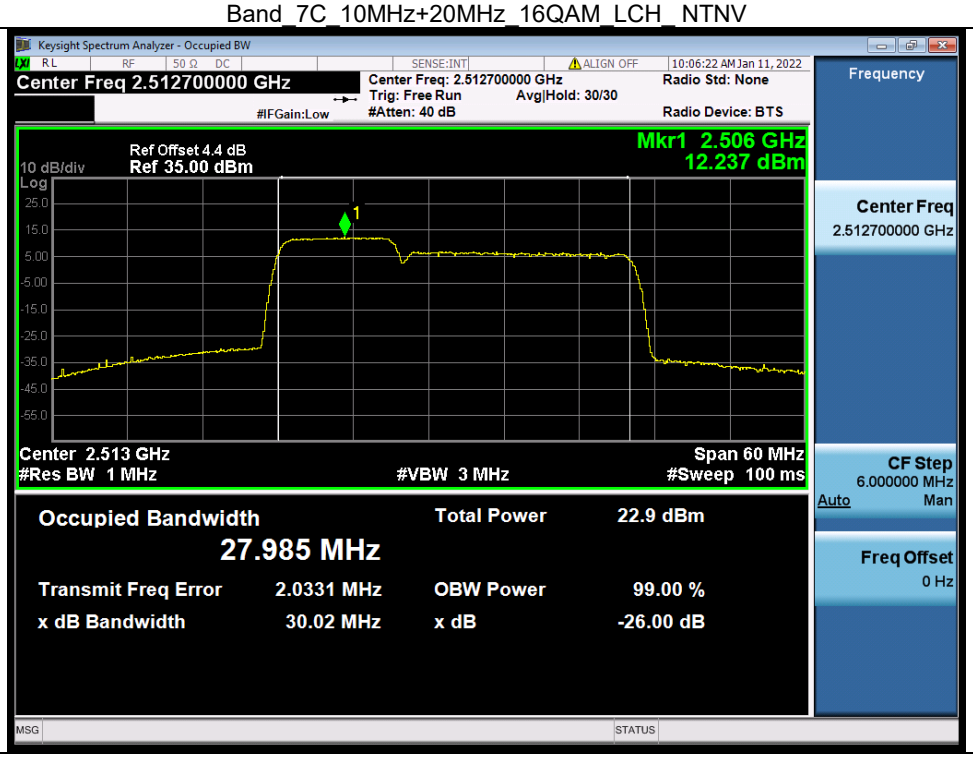


Band_7C_10MHz+20MHz_QPSK_MCH_NTNV

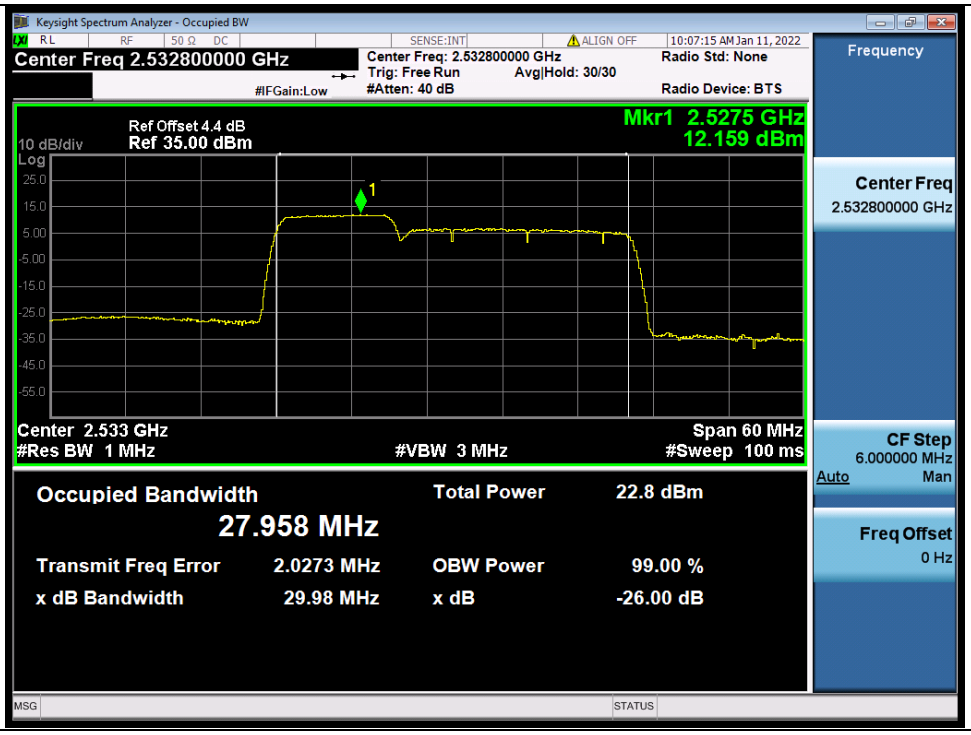


Band_7C_10MHz+20MHz_QPSK_HCH_NTNV

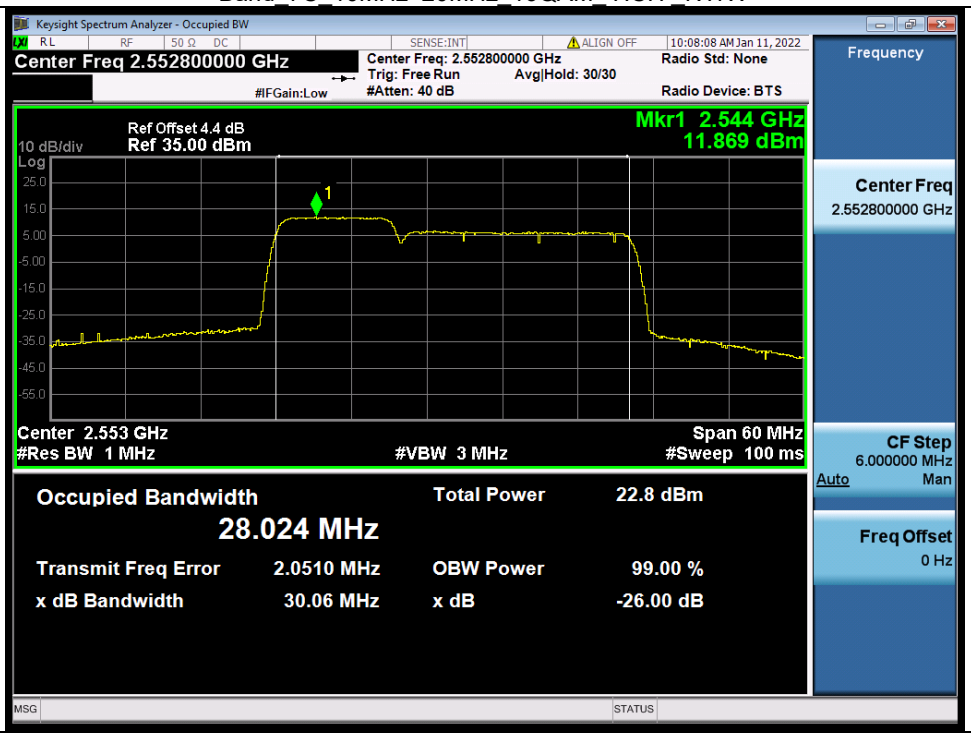
Band_7C_10MHz+20MHz_16QAM_LCH_NTNV



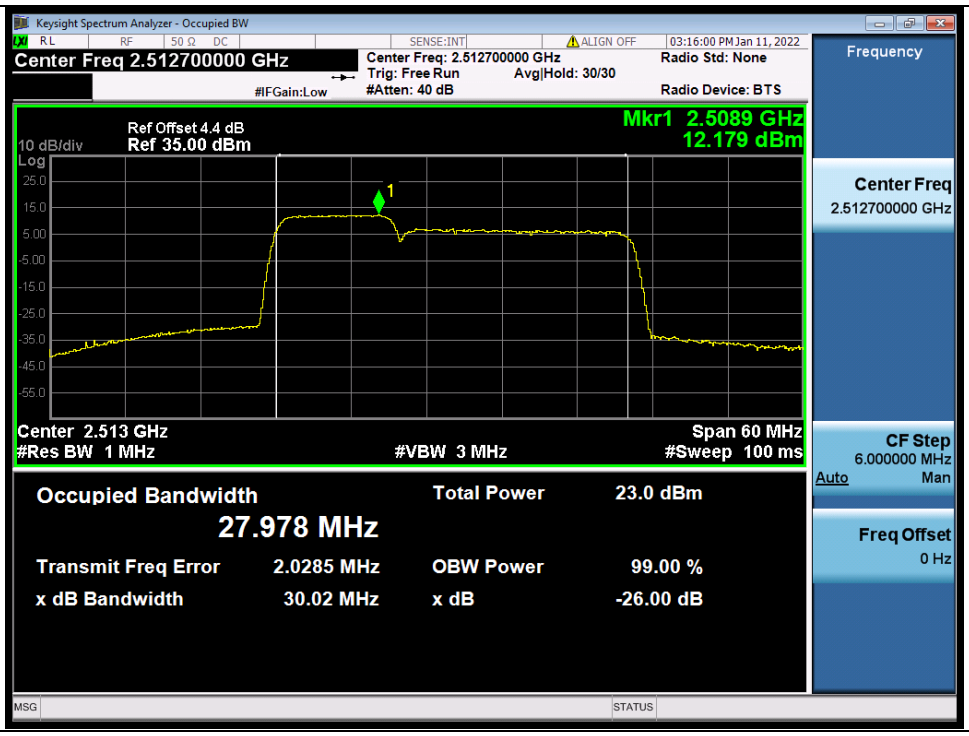
Band_7C_10MHz+20MHz_16QAM_MCH_NTNV



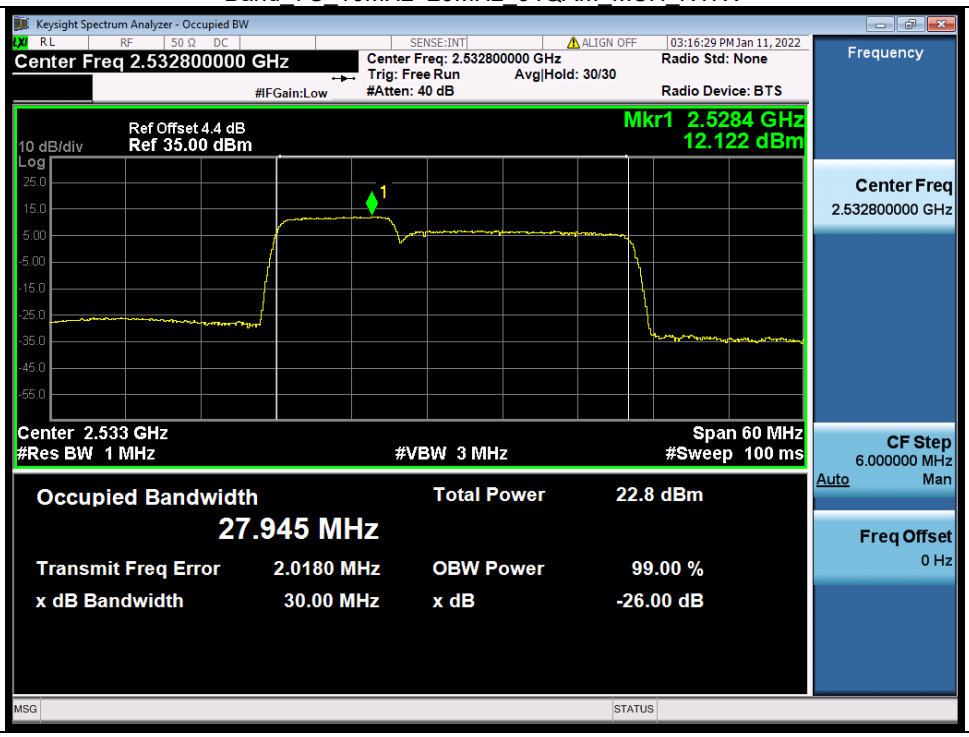
Band_7C_10MHz+20MHz_16QAM_HCH_NTNV



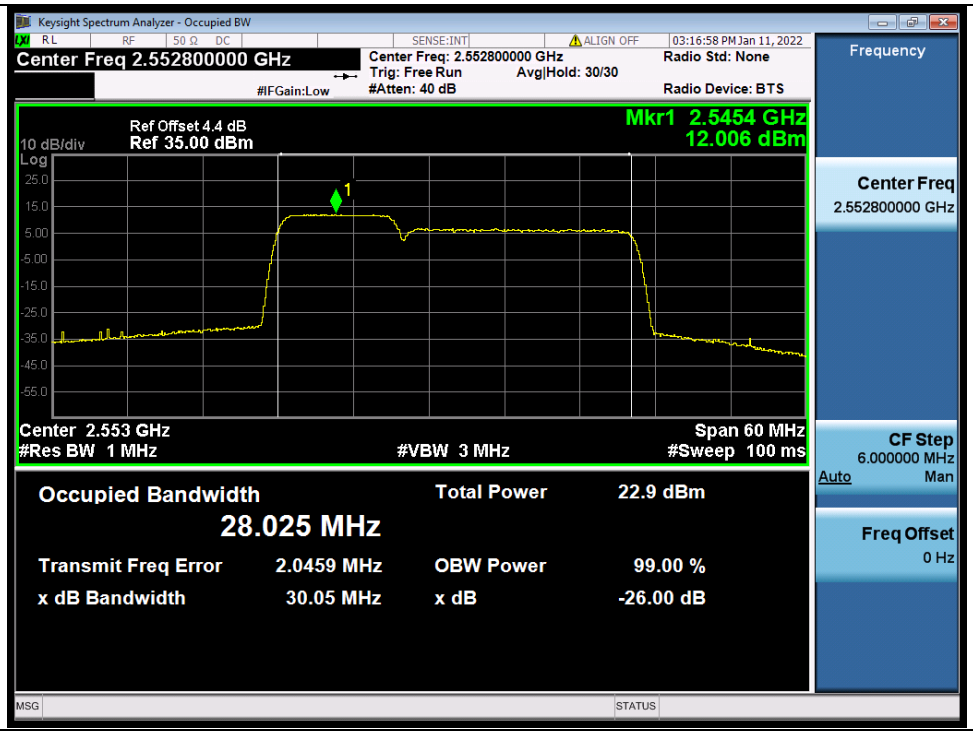
Band_7C_10MHz+20MHz_64QAM_LCH_NTNV



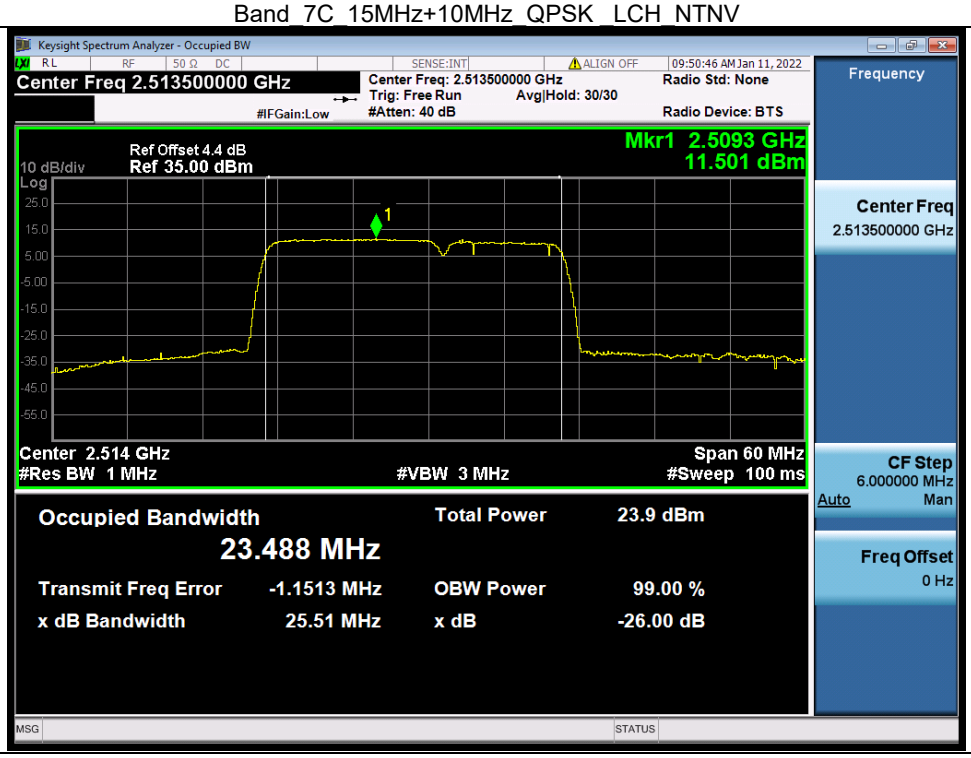
Band_7C_10MHz+20MHz_64QAM_MCH_NTNV



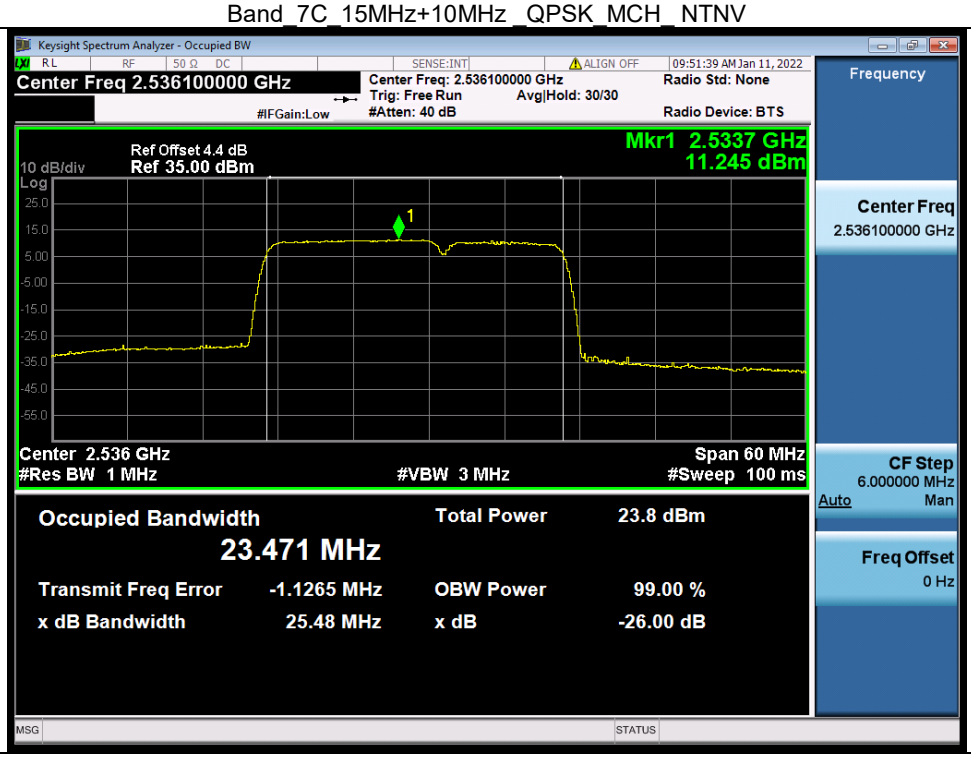
Band_7C_10MHz+20MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.552800000 GHz
Center Freq: 2.552800000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
03:16:58 PM Jan 11, 2022
Frequency
Ref Offset 4.4 dB
10 dB/div
Ref 35.00 dBm
Mkr1 2.5454 GHz
12.006 dBm
Center 2.553 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
28.025 MHz
Total Power 22.9 dBm
Transmit Freq Error 2.0459 MHz
OBW Power 99.00 %
x dB Bandwidth 30.05 MHz
x dB -26.00 dB
Center Freq
2.552800000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

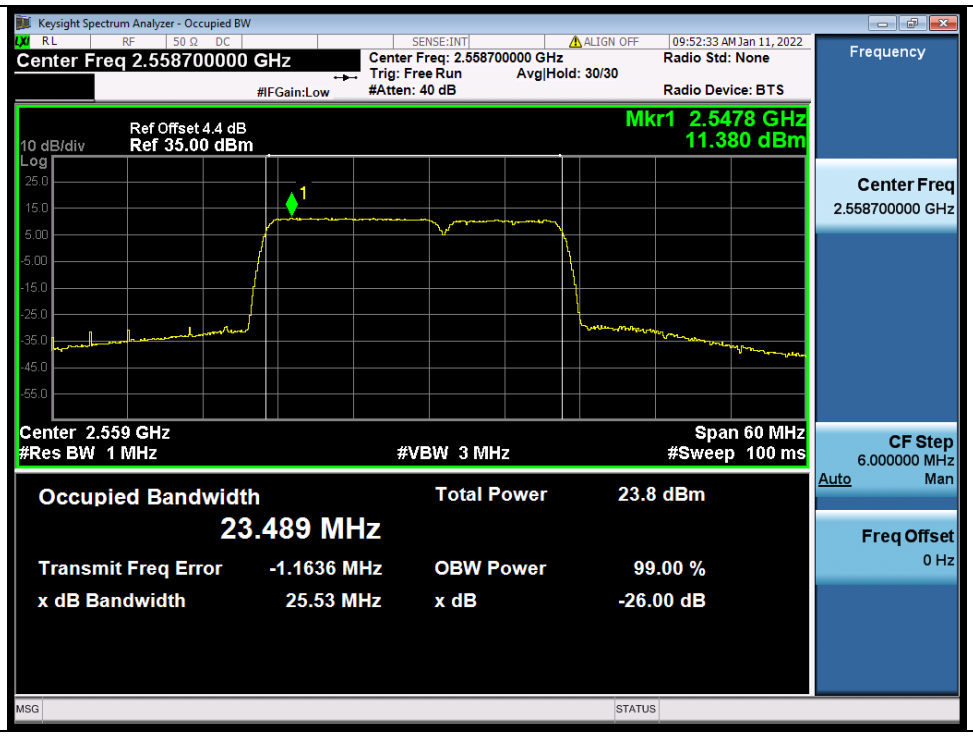
Band_7C_15MHz+10MHz_QPSK_LCH_NTNV



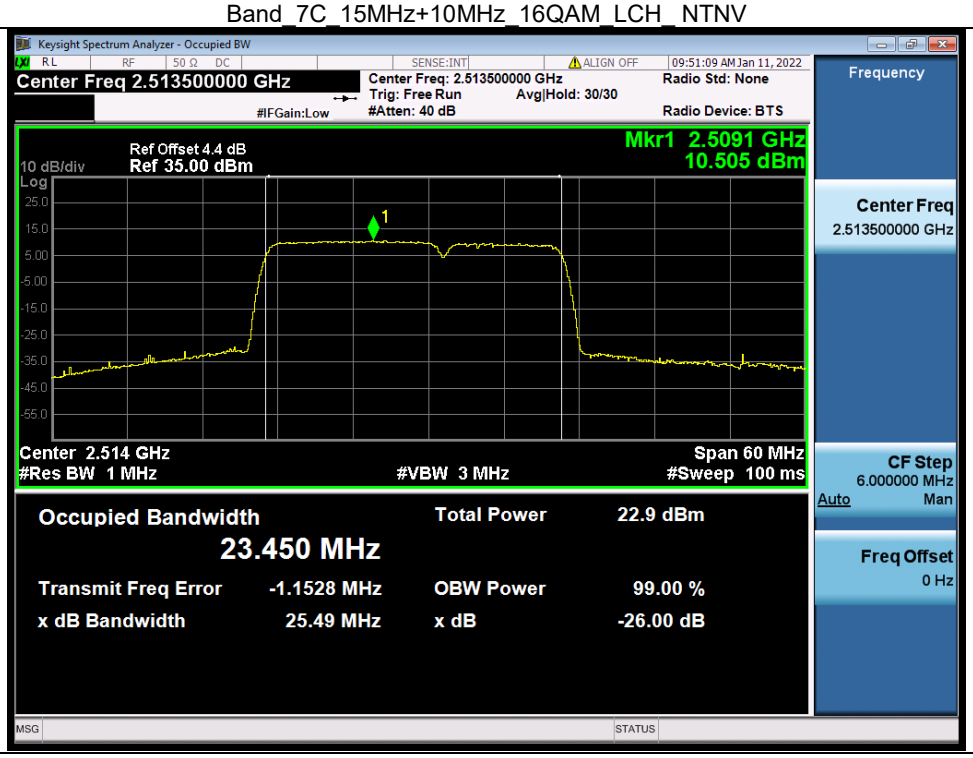
Band_7C_15MHz+10MHz_QPSK_MCH_NTNV



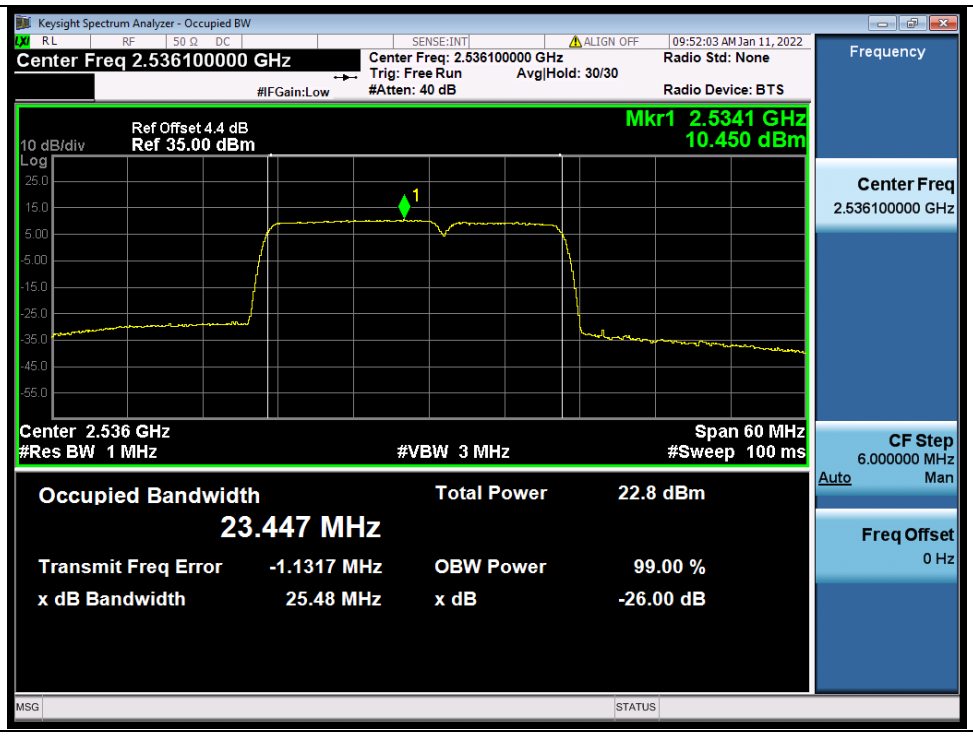
Band_7C_15MHz+10MHz_QPSK_HCH_NTNV



Band_7C_15MHz+10MHz_16QAM_LCH_NTNV

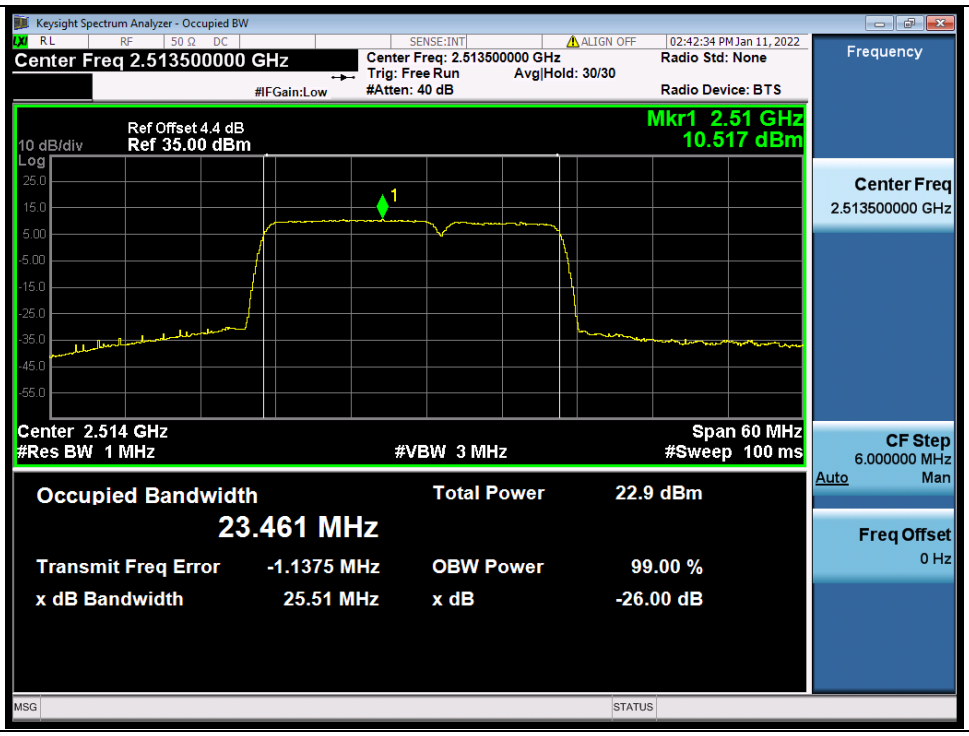


Band_7C_15MHz+10MHz _16QAM_MCH_NTNV

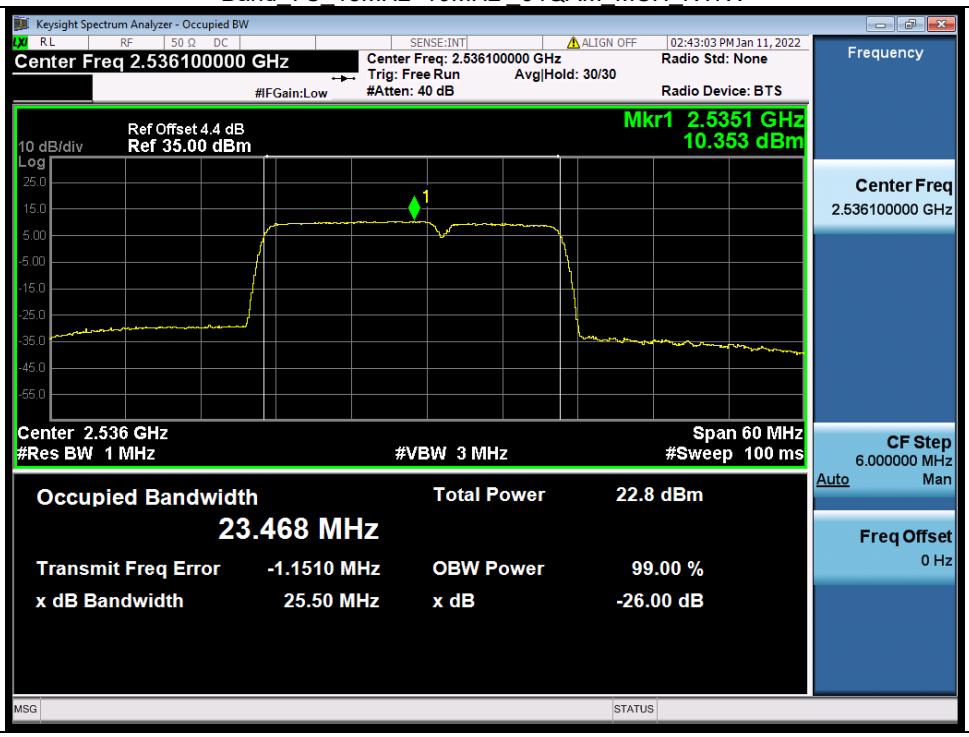


Band_7C_15MHz+10MHz_16QAM_HCH_NTNV

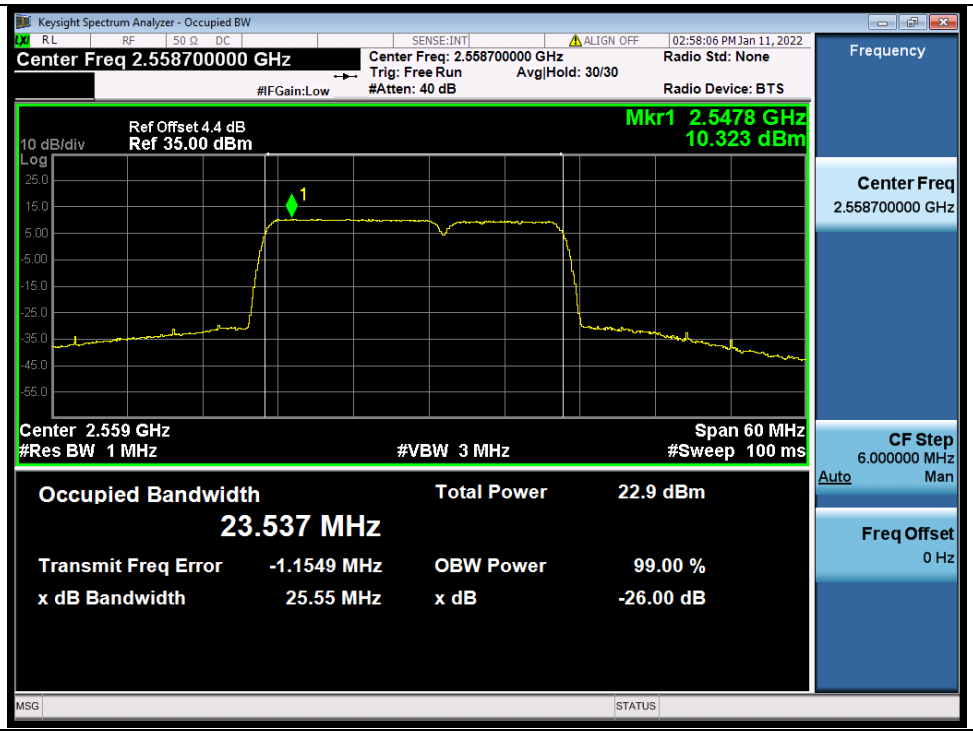
Band_7C_15MHz+10MHz_64QAM_LCH_NTNV



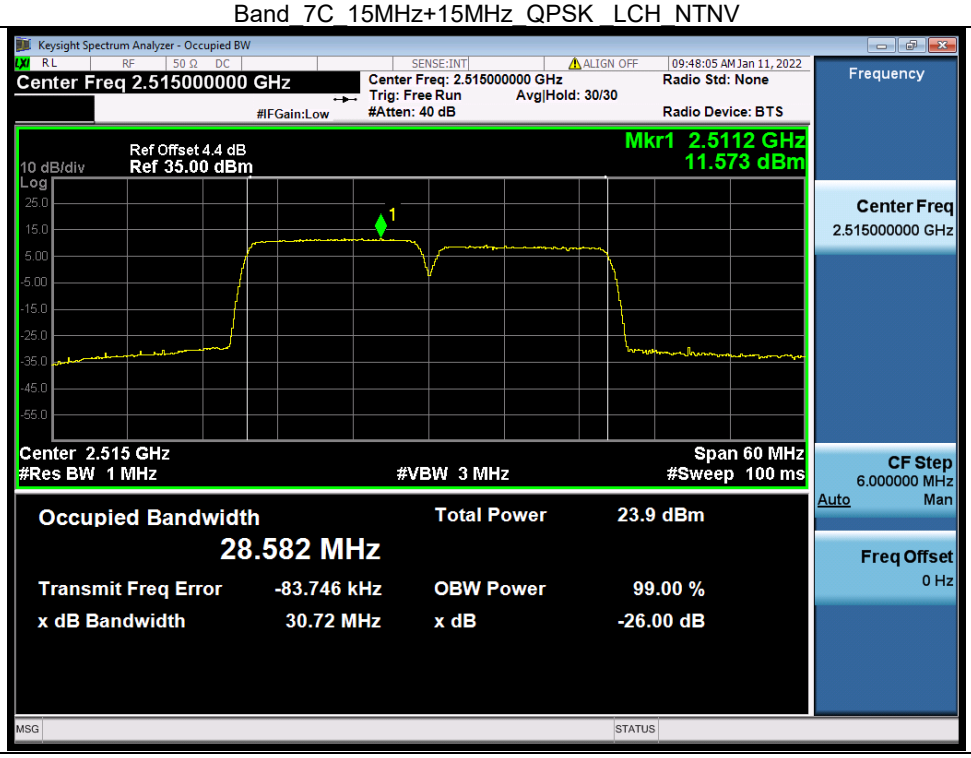
Band_7C_15MHz+10MHz_64QAM_MCH_NTNV



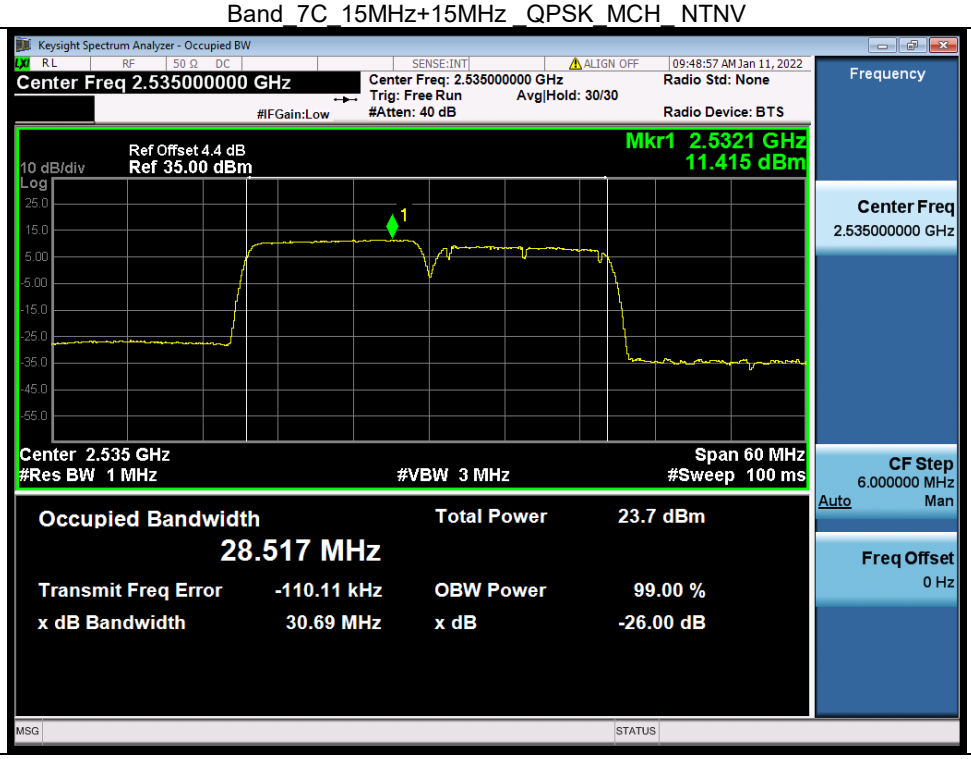
Band_7C_15MHz+10MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN OFF
02:58:06 PM Jan 11, 2022
Center Freq 2.558700000 GHz
Center Freq: 2.558700000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Frequency
Ref Offset 4.4 dB
10 dB/div
Ref 35.00 dBm
Log
Mkr1 2.5478 GHz
10.323 dBm
Center Freq
2.558700000 GHz
Center 2.559 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
23.537 MHz
Total Power
22.9 dBm
Transmit Freq Error
-1.1549 MHz
OBW Power
99.00 %
x dB Bandwidth
25.55 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

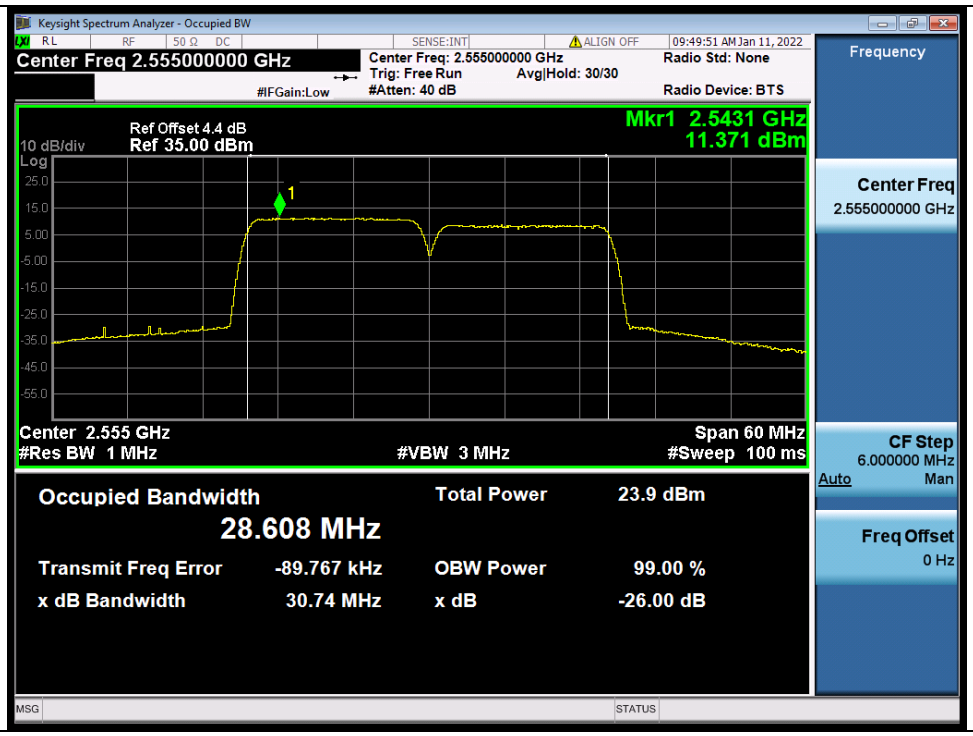
Band_7C_15MHz+15MHz_QPSK_LCH_NTNV



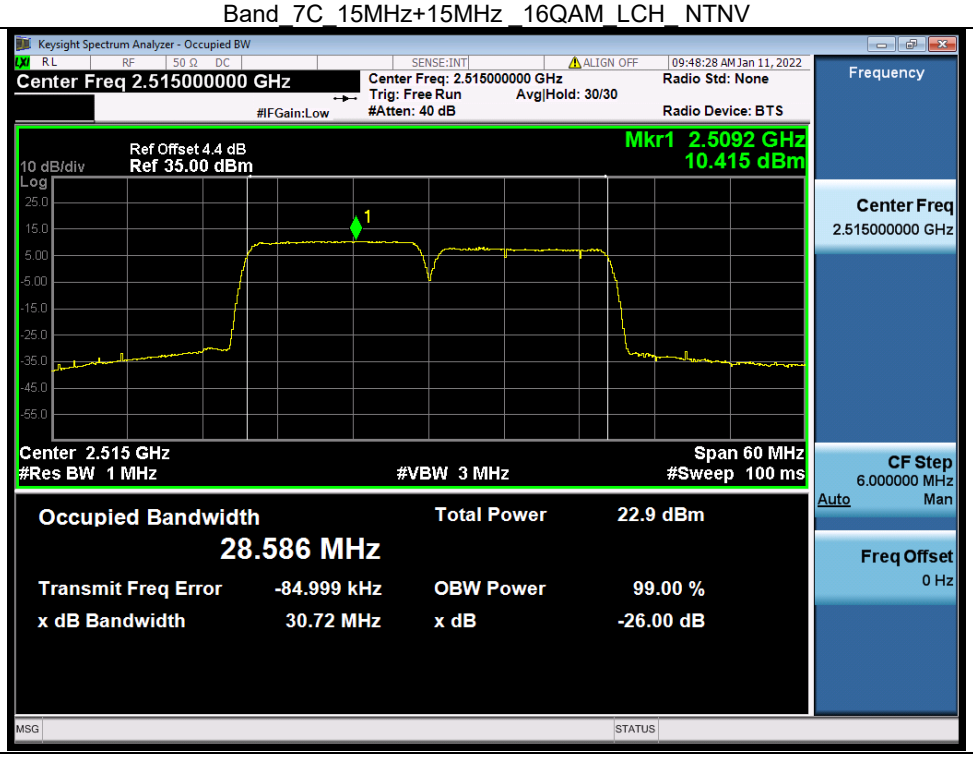
Band_7C_15MHz+15MHz_QPSK_MCH_NTNV



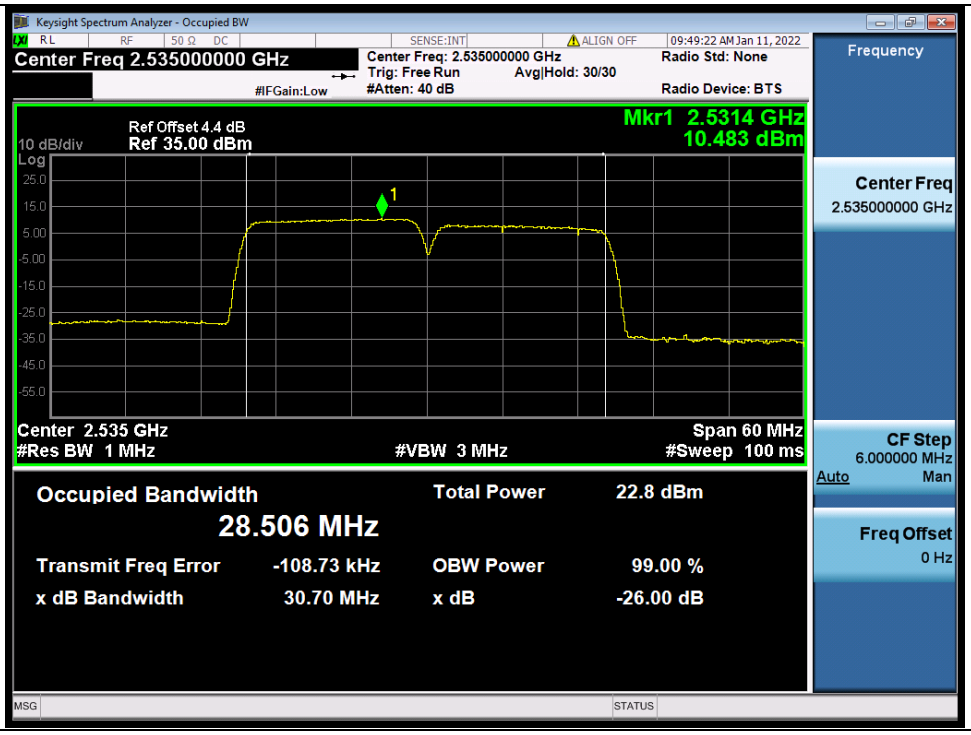
Band_7C_15MHz+15MHz_QPSK_HCH_NTNV



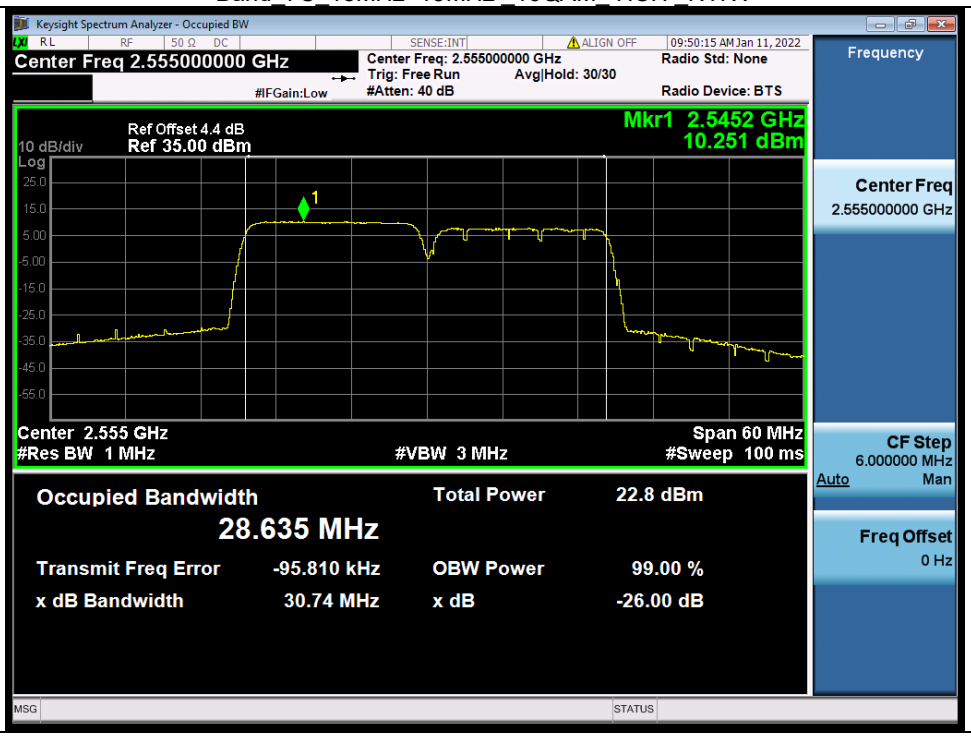
Band_7C_15MHz+15MHz _16QAM_LCH_ NTNV



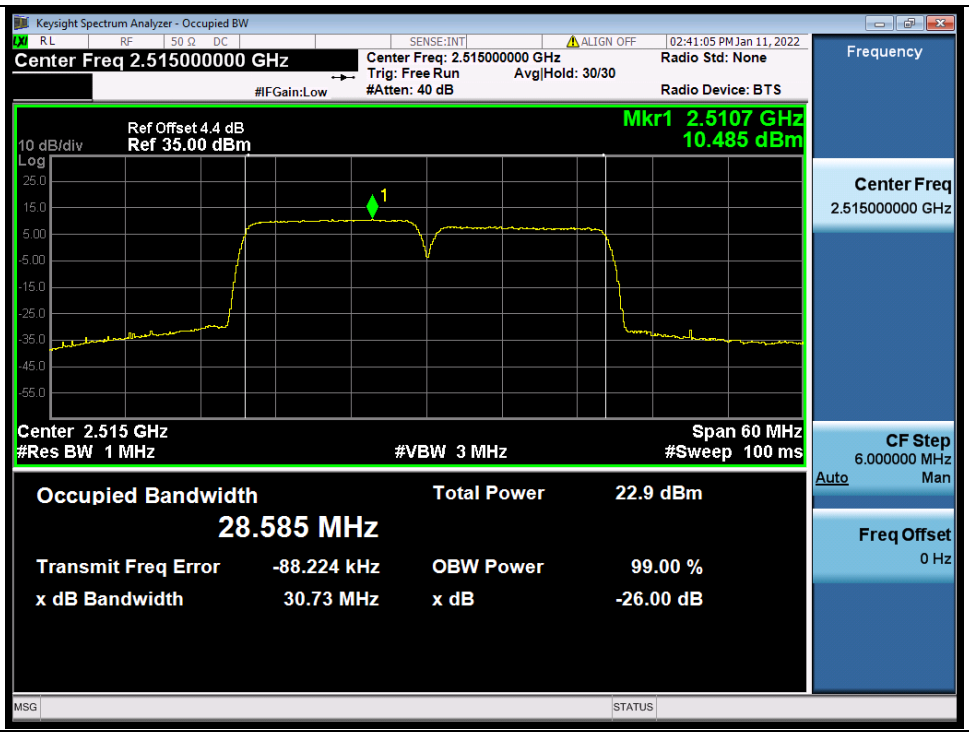
Band_7C_15MHz+15MHz _16QAM_MCH_NTNV



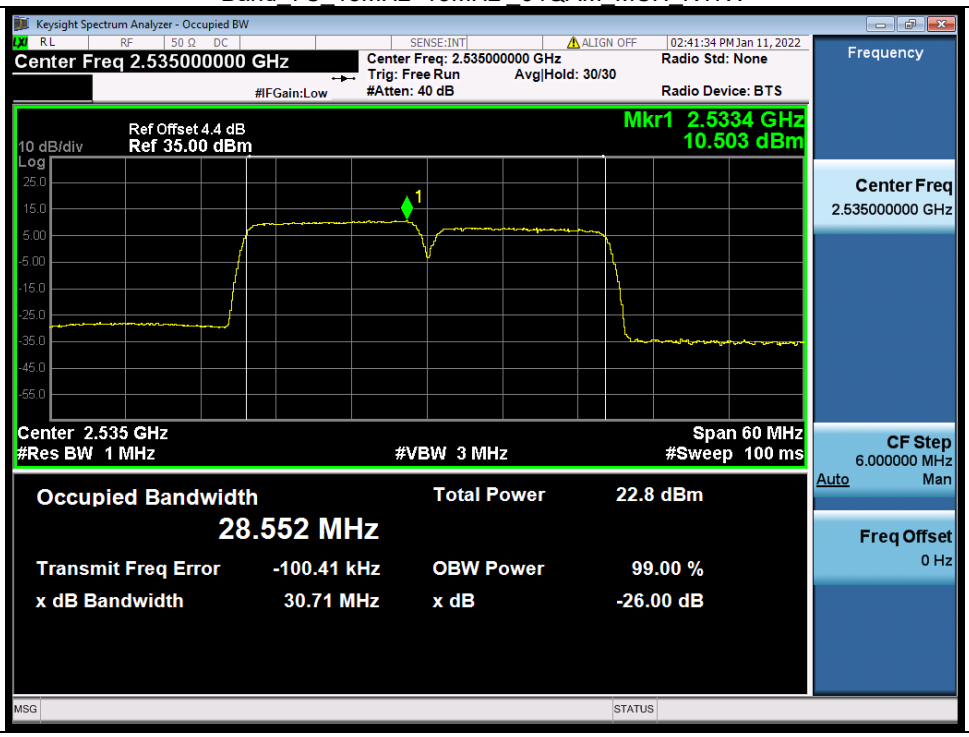
Band_7C_15MHz+15MHz_16QAM_HCH_NTNV



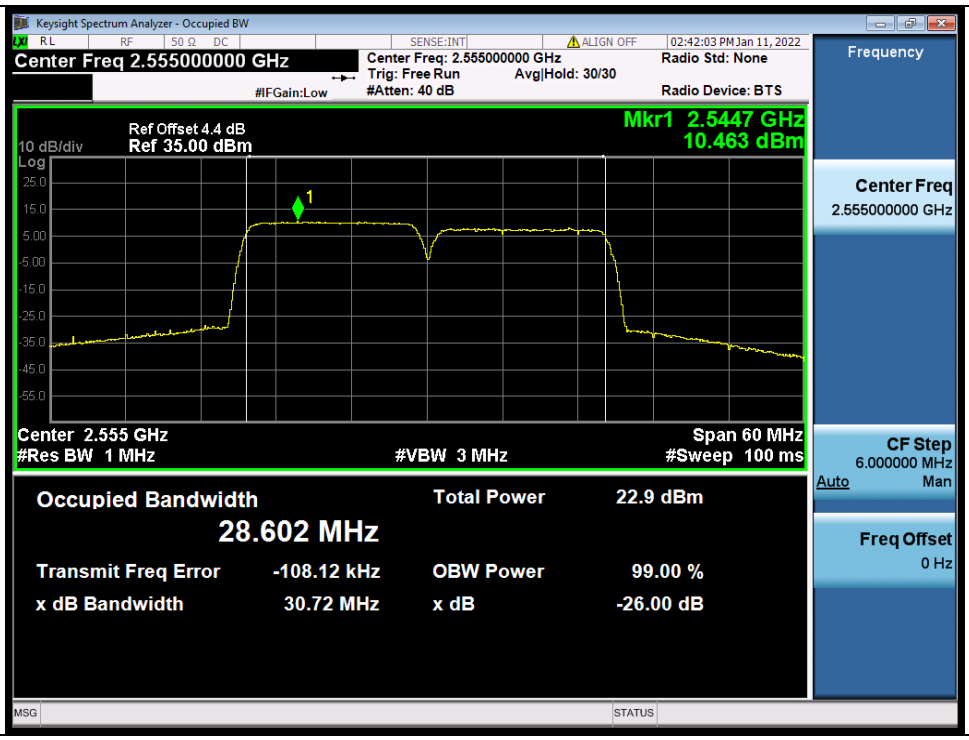
Band_7C_15MHz+15MHz_64QAM_LCH_NTNV



Band_7C_15MHz+15MHz_64QAM_MCH_NTNV

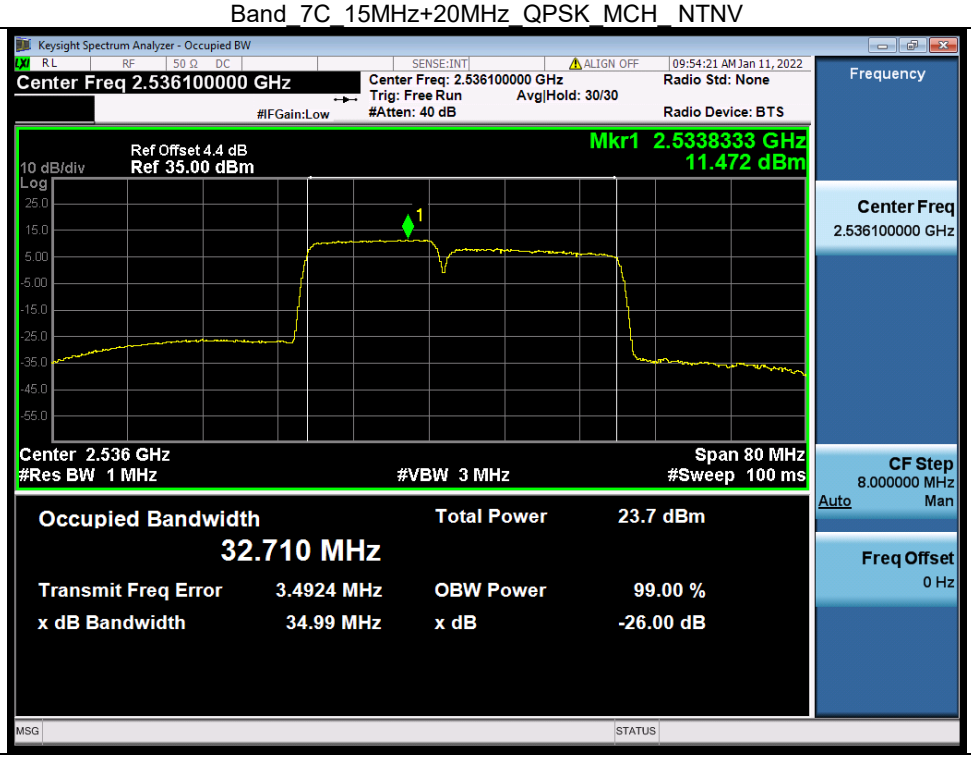


Band_7C_15MHz+15MHz_64QAM_HCH_NTNV

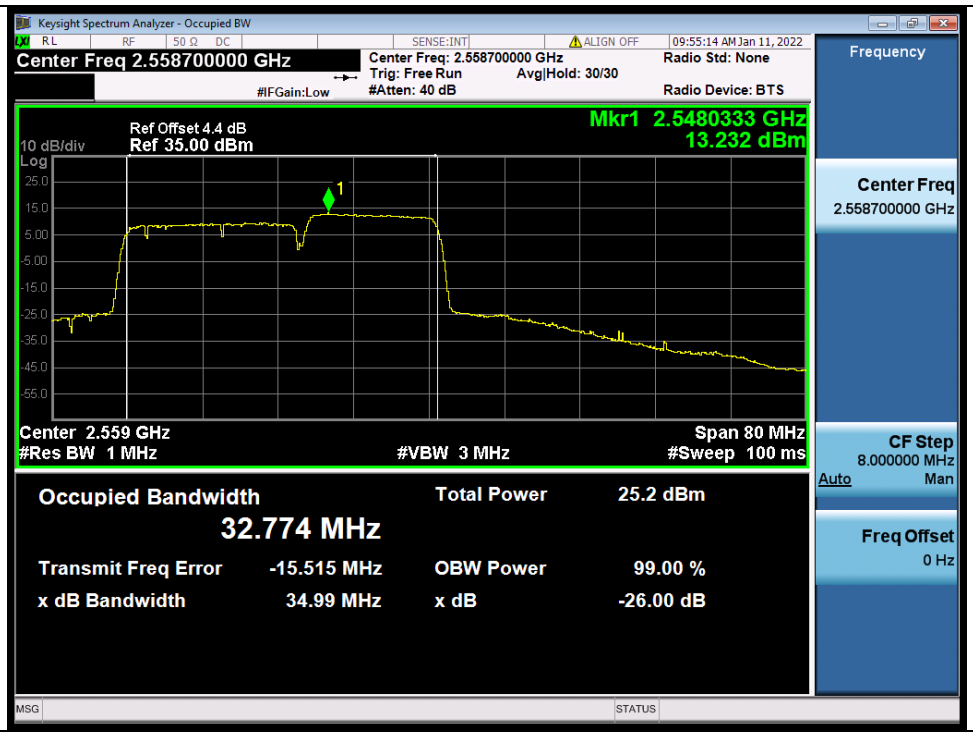

Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.555000000 GHz
Center Freq: 2.555000000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
02:42:03 PM Jan 11, 2022
Frequency
Ref Offset 4.4 dB
10 dB/div
Ref 35.00 dBm
Mkr1 2.5447 GHz
10.463 dBm
Center 2.555 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
28.602 MHz
Total Power 22.9 dBm
Transmit Freq Error -108.12 kHz
OBW Power 99.00 %
x dB Bandwidth 30.72 MHz
x dB -26.00 dB
Center Freq
2.555000000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

Band_7C_15MHz+20MHz_QPSK_LCH_NTNV

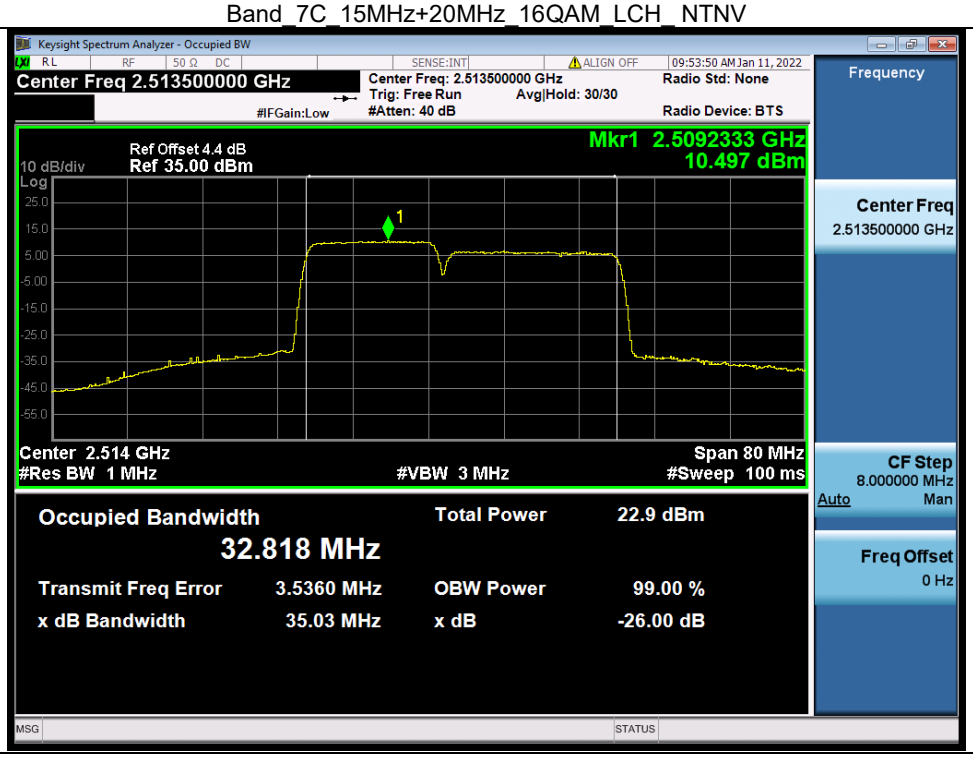
Band_7C_15MHz+20MHz_QPSK_MCH_NTNV



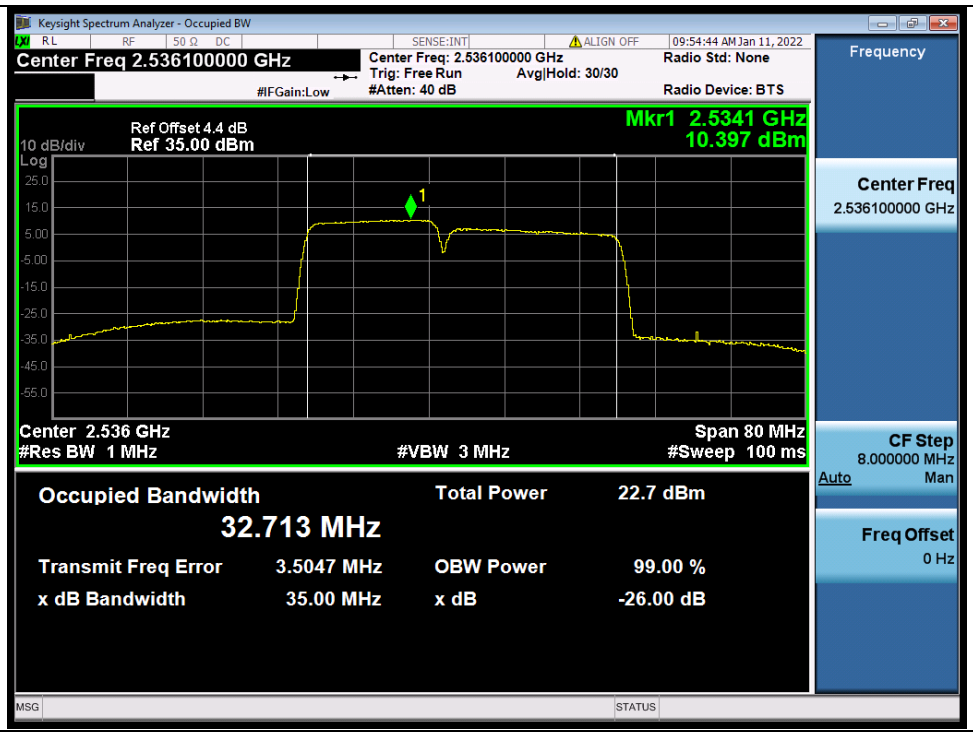
Band_7C_15MHz+20MHz_QPSK_HCH_NTNV



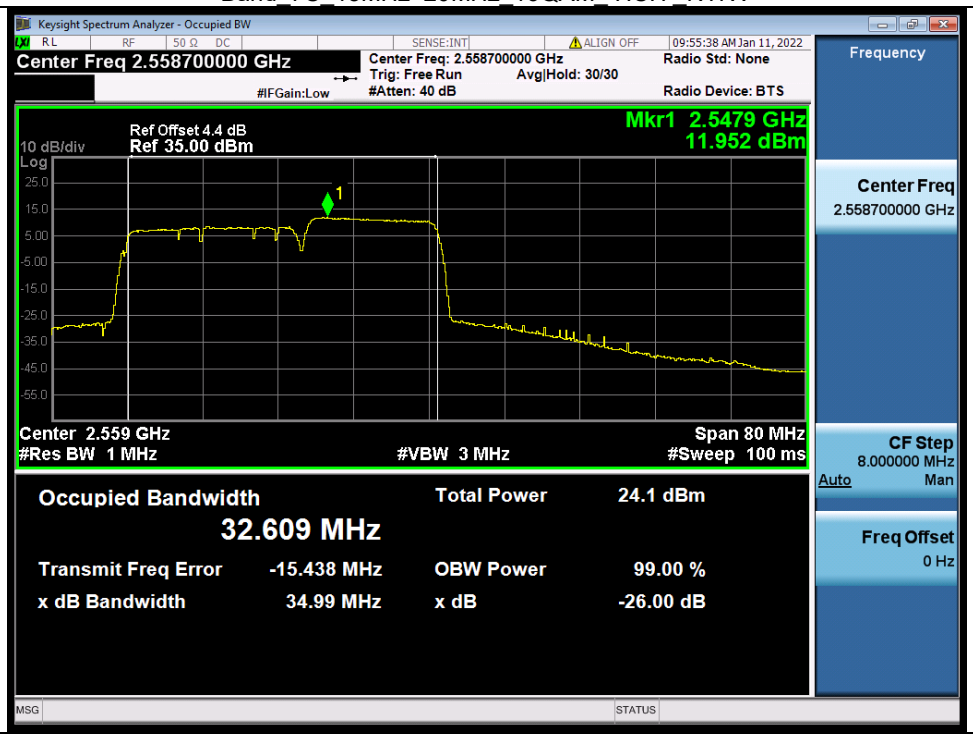
Band_7C_15MHz+20MHz_16QAM_LCH_NTNV



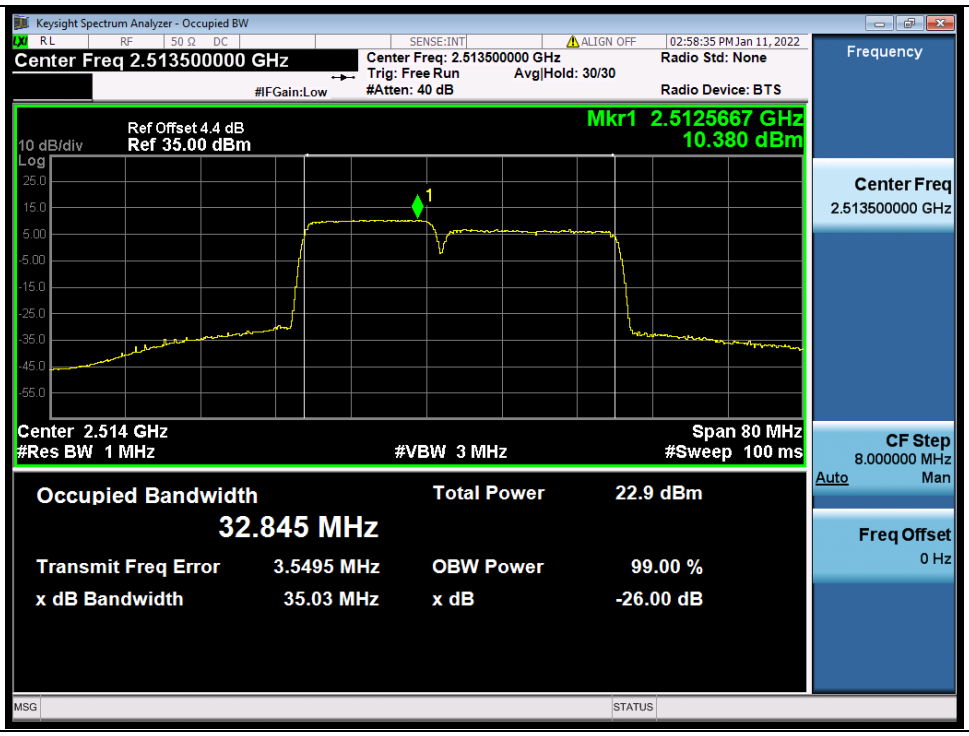
Band_7C_15MHz+20MHz_16QAM_MCH_NTNV



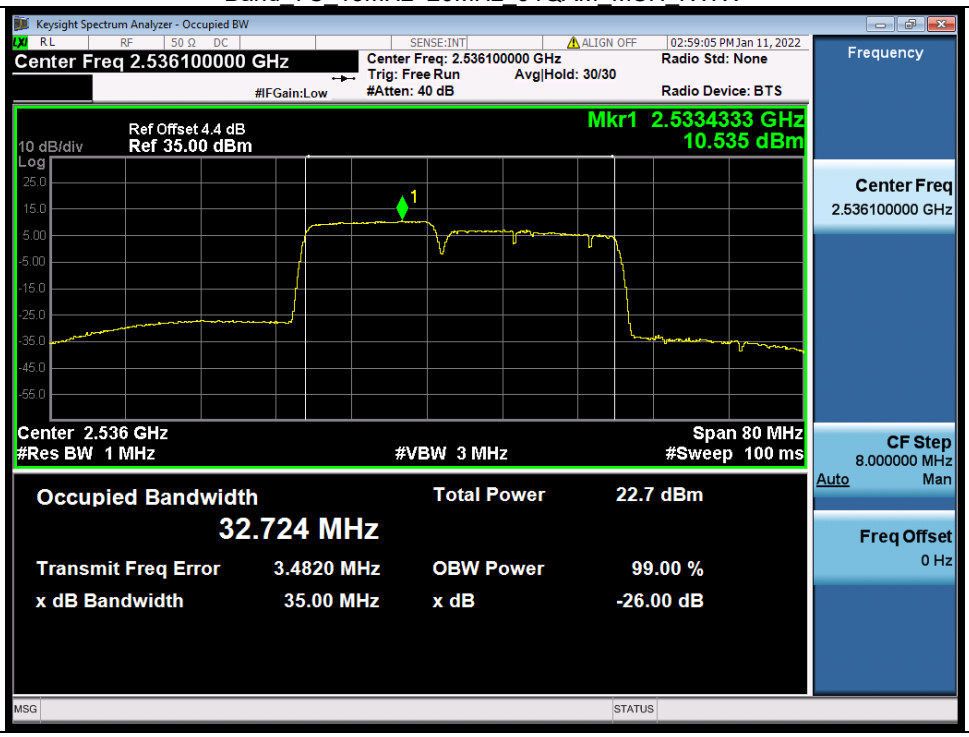
Band_7C_15MHz+20MHz_16QAM_HCH_NTNV



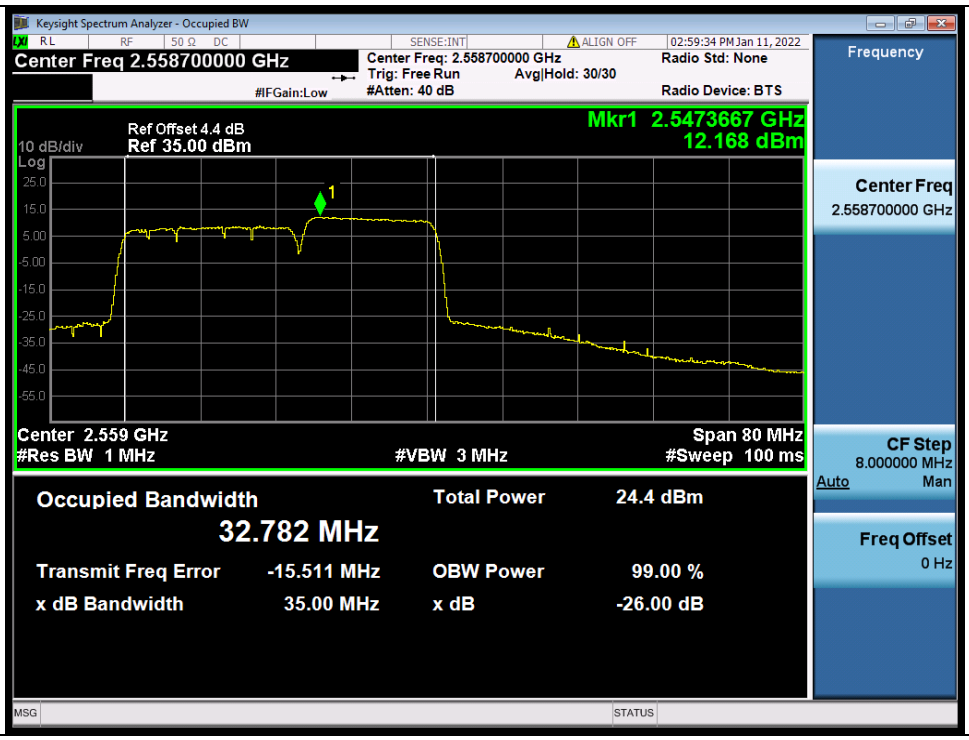
Band_7C_15MHz+20MHz_64QAM_LCH_NTNV



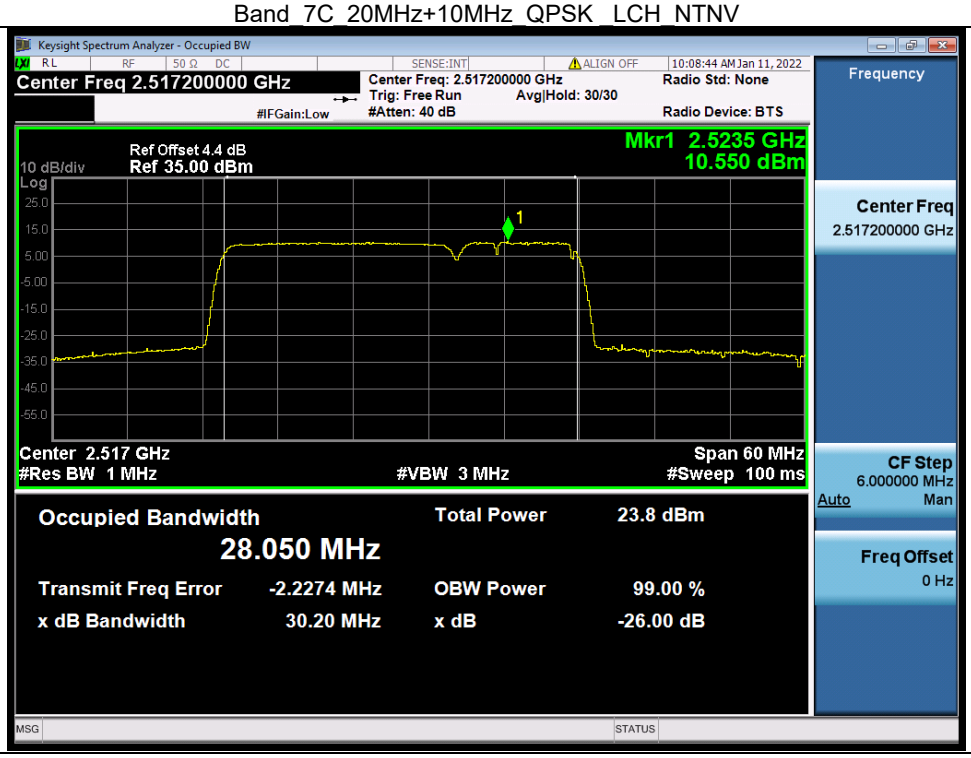
Band_7C_15MHz+20MHz_64QAM_MCH_NTNV



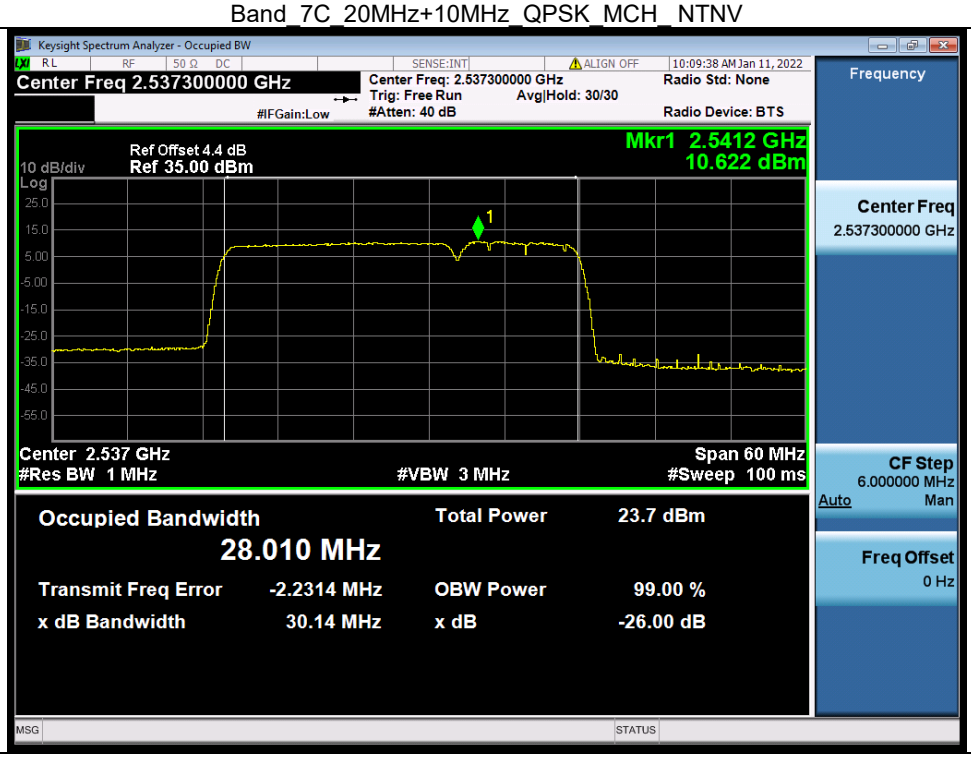
Band_7C_15MHz+20MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.558700000 GHz
Center Freq: 2.558700000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
02:59:34 PM Jan 11, 2022
Frequency
Ref Offset 4.4 dB
10 dB/div
Ref 35.00 dBm
Log
Mkr1 2.5473667 GHz
12.168 dBm
Center 2.559 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 80 MHz
#Sweep 100 ms
Occupied Bandwidth
32.782 MHz
Total Power 24.4 dBm
Transmit Freq Error -15.511 MHz
OBW Power 99.00 %
x dB Bandwidth 35.00 MHz
x dB -26.00 dB
Center Freq
2.558700000 GHz
CF Step
8.000000 MHz
Auto Man
Freq Offset
0 Hz

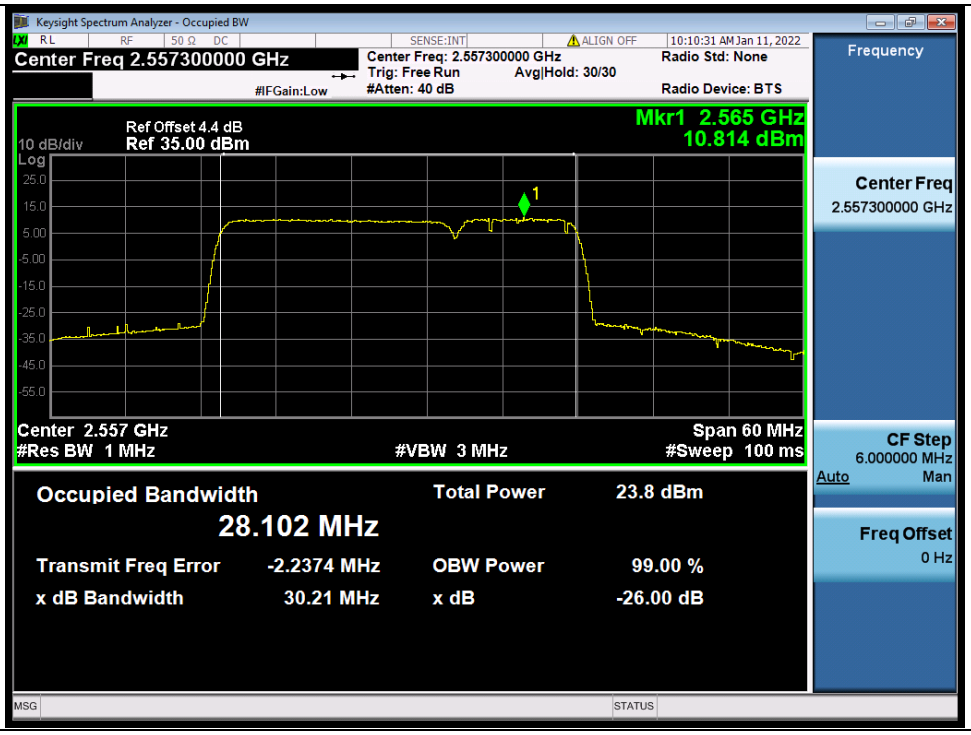
Band_7C_20MHz+10MHz_QPSK_LCH_NTNV



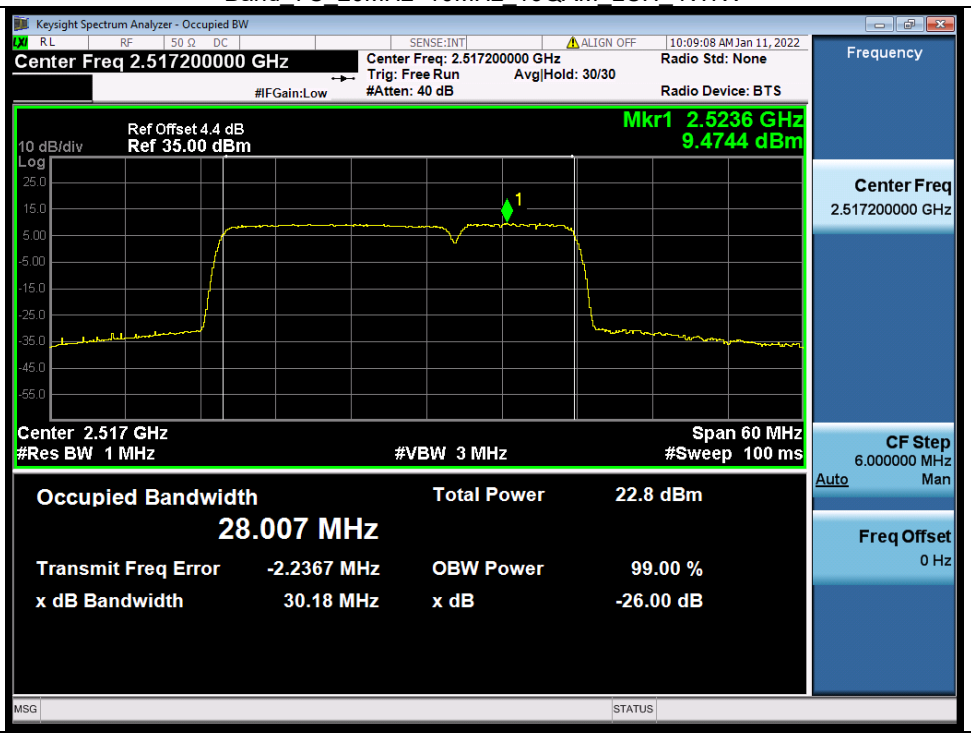
Band_7C_20MHz+10MHz_QPSK_MCH_NTNV



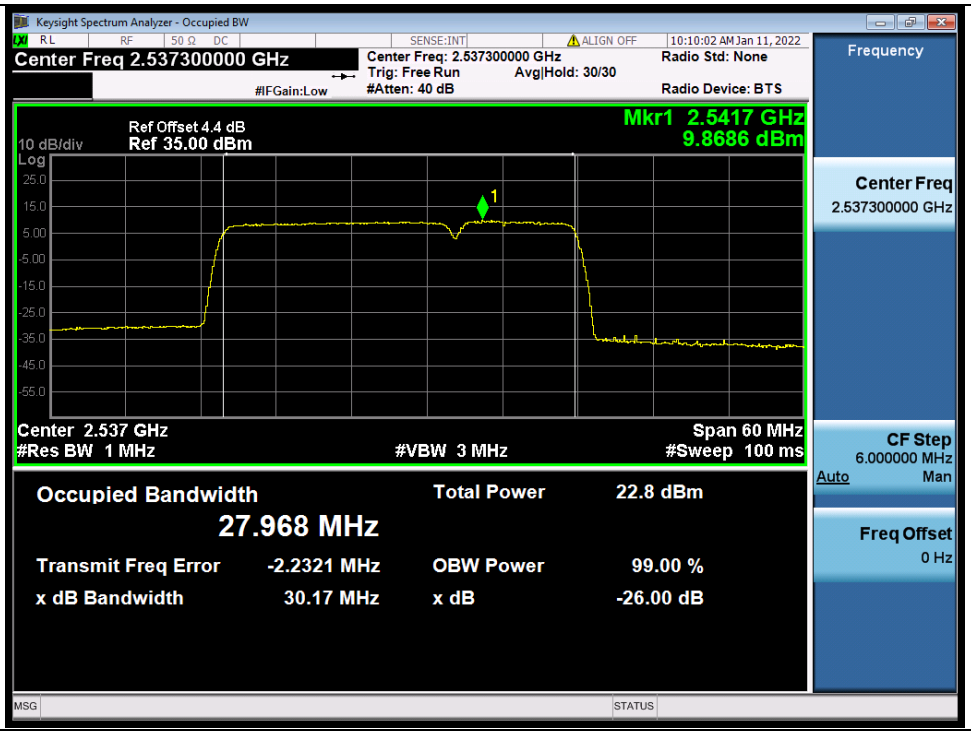
Band_7C_20MHz+10MHz_QPSK_HCH_NTNV



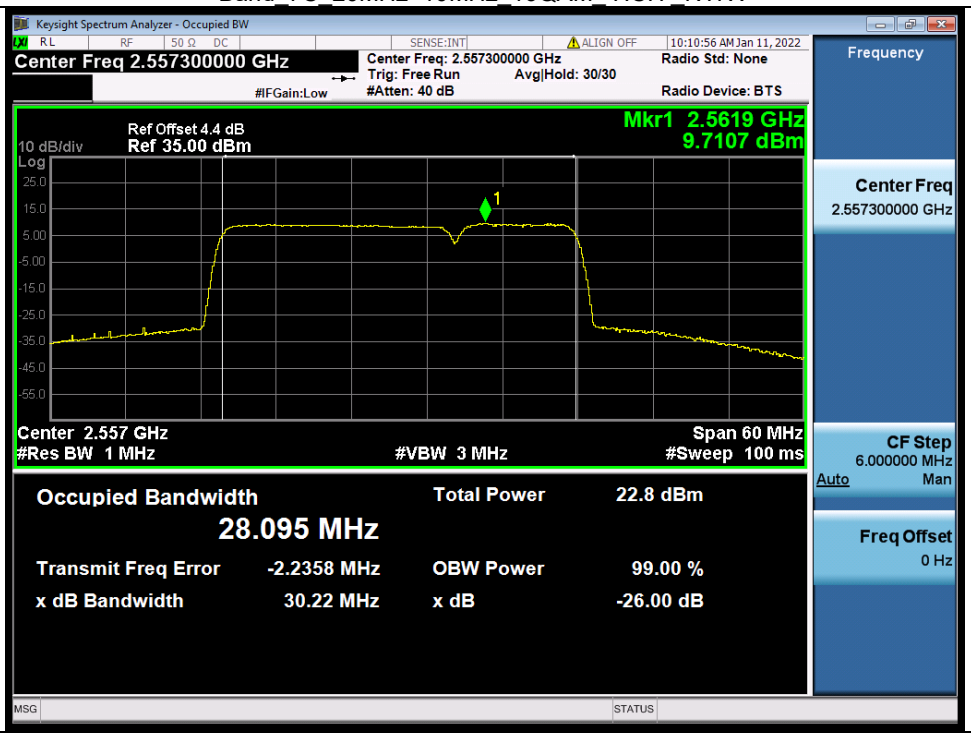
Band_7C_20MHz+10MHz_16QAM_LCH_NTNV



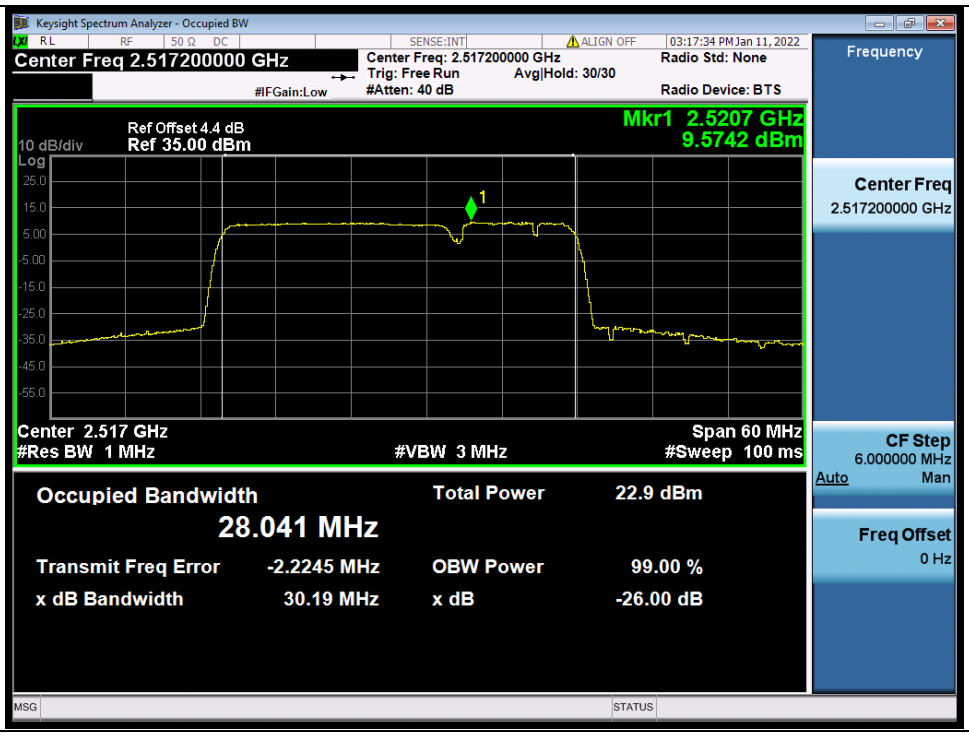
Band_7C_20MHz+10MHz_16QAM_MCH_NTNV



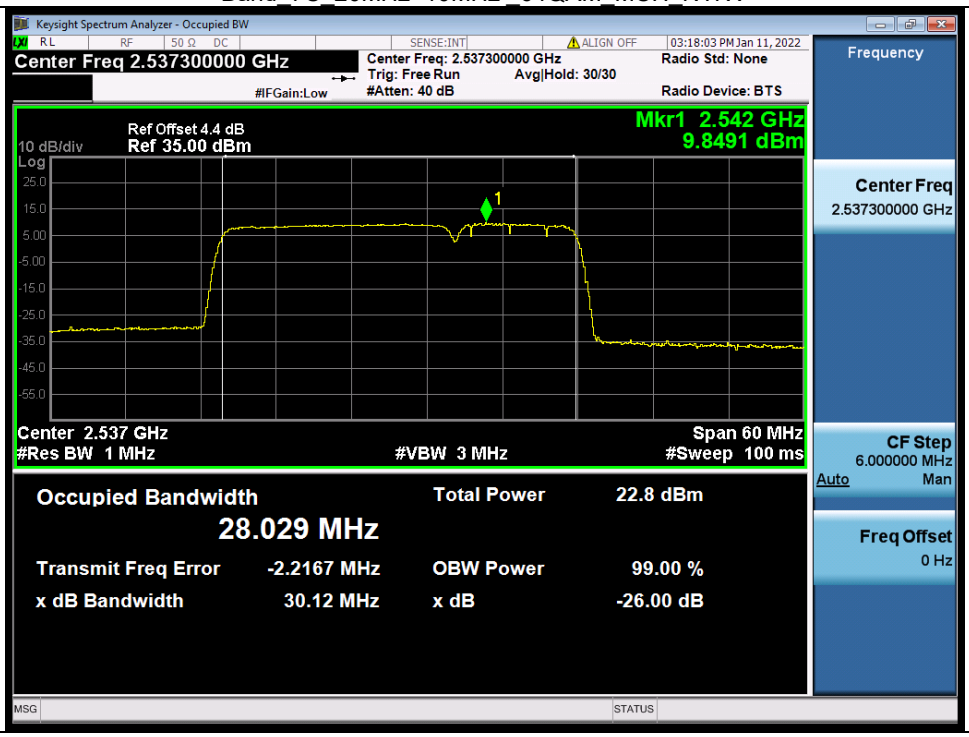
Band_7C_20MHz+10MHz_16QAM_HCH_NTNV



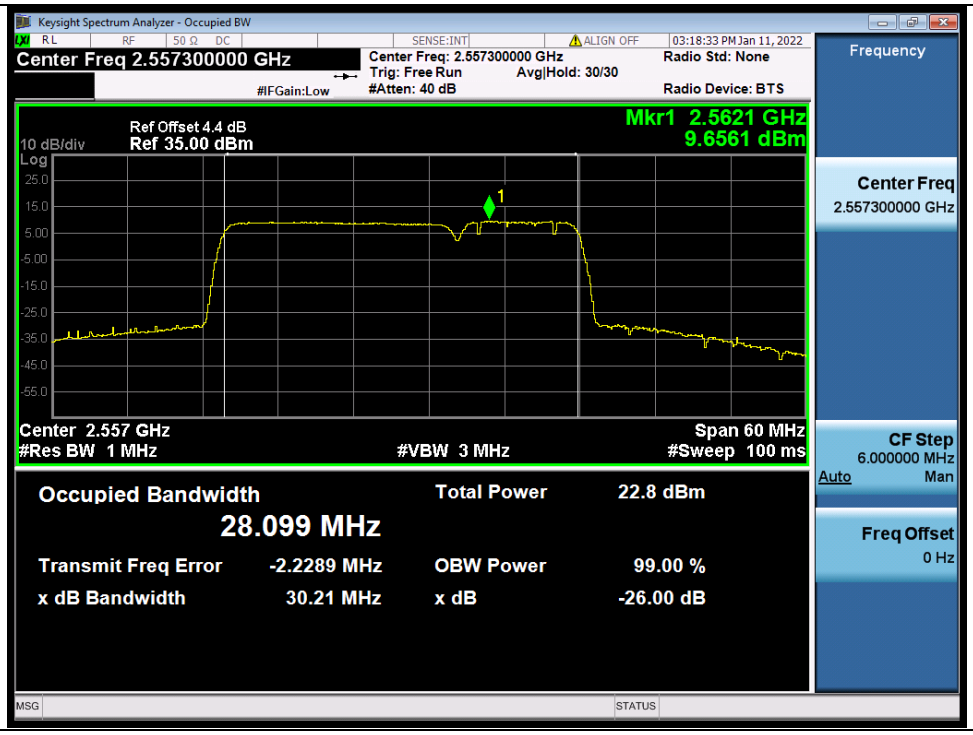
Band_7C_20MHz+10MHz_64QAM_LCH_NTNV



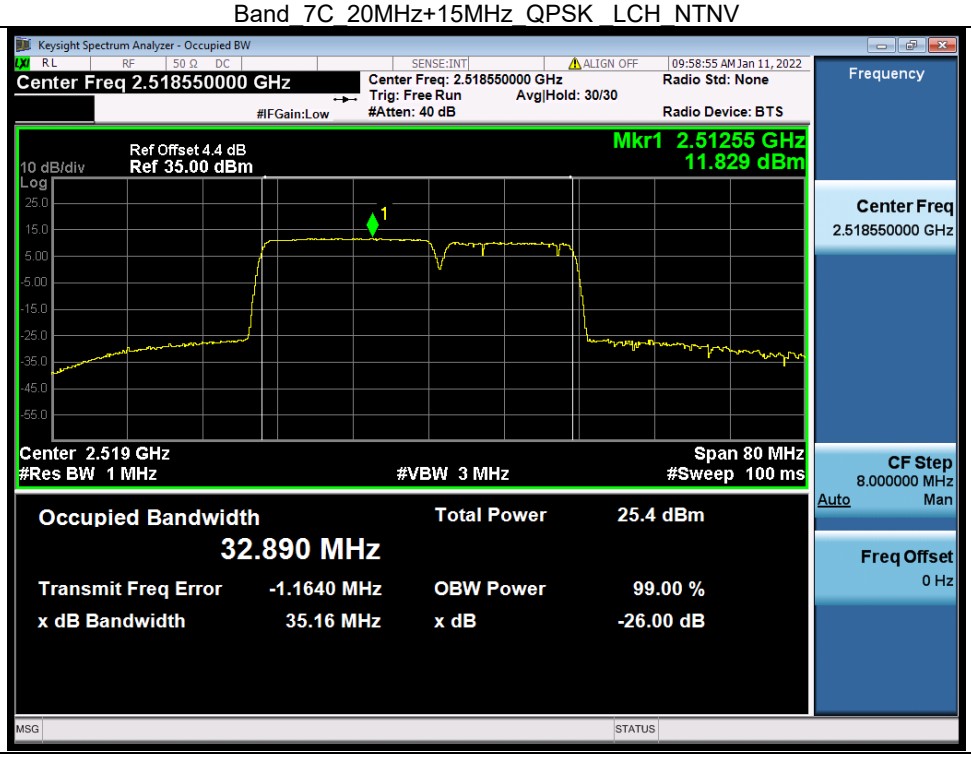
Band_7C_20MHz+10MHz_64QAM_MCH_NTNV



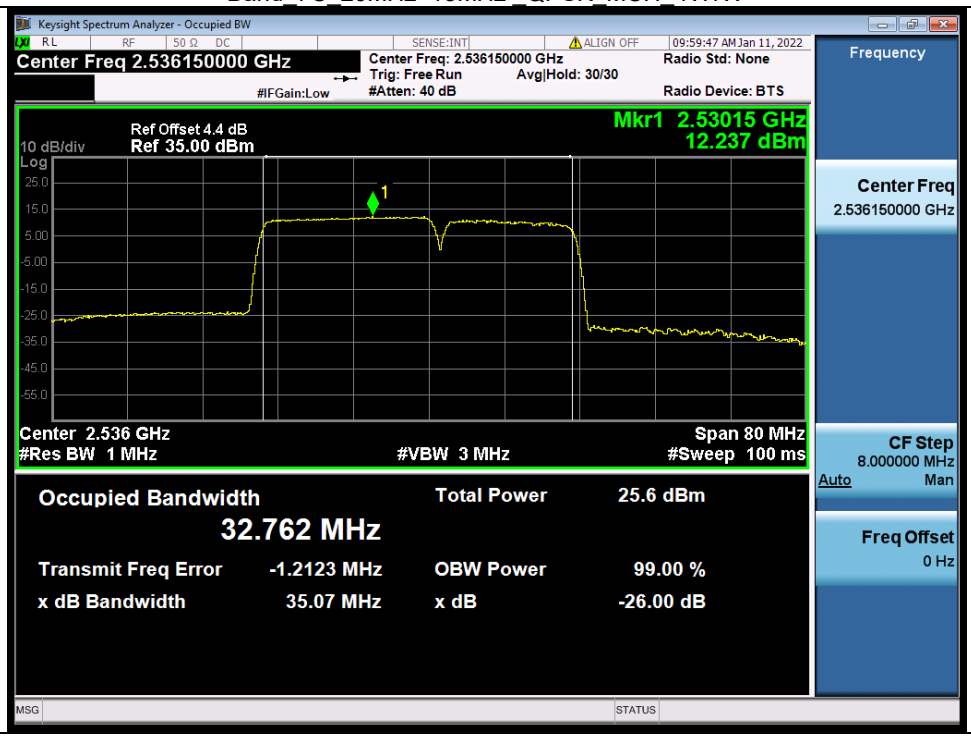
Band_7C_20MHz+10MHz_64QAM_HCH_NTNV


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.557300000 GHz
Center Freq: 2.557300000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
03:18:33 PM Jan 11, 2022
Ref Offset 4.4 dB
10 dB/div
Ref 35.00 dBm
Mkr1 2.5621 GHz
9.6561 dBm
Center 2.557 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
#Sweep 100 ms
Occupied Bandwidth
28.099 MHz
Total Power 22.8 dBm
Transmit Freq Error -2.2289 MHz
OBW Power 99.00 %
x dB Bandwidth 30.21 MHz
x dB -26.00 dB
Frequency
Center Freq
2.557300000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz

Band_7C_20MHz+15MHz_QPSK_LCH_NTNV



Band_7C_20MHz+15MHz_QPSK_MCH_NTNV



Band_7C_20MHz+15MHz_QPSK_HCH_NTNV