

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -16.01 dBm                      Occ Bw 1.7100900 GHz                      D1[1] 8.942115768 MHz 0.23 dB                      9.8000 MHz                      CF 1.715 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 11:59:11                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -14.44 dBm                      Occ Bw 1.7102000 GHz                      D1[1] 8.942115768 MHz -0.85 dB                      9.6400 MHz                      CF 1.715 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 11:59:39                 </p>
Middle	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -15.15 dBm                      Occ Bw 1.7276200 GHz                      D1[1] 8.942115768 MHz 0.44 dB                      9.7600 MHz                      CF 1.7325 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 12:00:08                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -15.55 dBm                      Occ Bw 1.7276200 GHz                      D1[1] 8.942115768 MHz -0.13 dB                      9.7200 MHz                      CF 1.7325 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 12:00:39                 </p>
Highest	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -14.03 dBm                      Occ Bw 1.7451600 GHz                      D1[1] 8.942115768 MHz -0.11 dB                      9.7200 MHz                      CF 1.75 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 12:01:08                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz                      Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT                      1Pk Max                      M1[1] -15.92 dBm                      Occ Bw 1.7451200 GHz                      D1[1] 8.942115768 MHz 0.62 dB                      9.7600 MHz                      CF 1.75 GHz 501 pts Span 20.0 MHz                      Date: 14.DEC.2021 12:01:49                 </p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -11.49 dBm                      1.7101800 GHz                      Occ Bw 13.479053892 MHz                      D1[1] -1.30 dB                      14.7000 MHz                      D1 13.690 dBm                      D2 -12.910 dBm                      CF 1.7175 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:02:17                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -12.55 dBm                      1.7102400 GHz                      Occ Bw 13.479053892 MHz                      D1[1] -0.99 dB                      14.5800 MHz                      D1 12.380 dBm                      D2 -13.620 dBm                      CF 1.7175 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:02:47                 </p>
Middle	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -12.98 dBm                      1.7251800 GHz                      Occ Bw 13.413173653 MHz                      D1[1] 0.54 dB                      14.6400 MHz                      D1 13.360 dBm                      D2 -12.640 dBm                      CF 1.7325 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:03:22                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -12.88 dBm                      1.7251800 GHz                      Occ Bw 13.532934132 MHz                      D1[1] -0.19 dB                      14.6400 MHz                      D1 12.000 dBm                      D2 -14.000 dBm                      CF 1.7325 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:03:46                 </p>
Highest	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -11.81 dBm                      1.7401800 GHz                      Occ Bw 13.479053892 MHz                      D1[1] -1.33 dB                      14.7000 MHz                      D1 13.730 dBm                      D2 -12.270 dBm                      CF 1.7475 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:04:07                 </p>	<p>                     Spectrum                      Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz                      Att 40 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT                      1Pk Max                      M1[1] -11.41 dBm                      1.7402400 GHz                      Occ Bw 13.479053892 MHz                      D1[1] -0.28 dB                      14.5800 MHz                      D1 14.220 dBm                      D2 -11.780 dBm                      CF 1.7475 GHz 501 pts Span 30.0 MHz                      Date: 14.DEC.2021 12:04:38                 </p>

Occupied Bandwidth

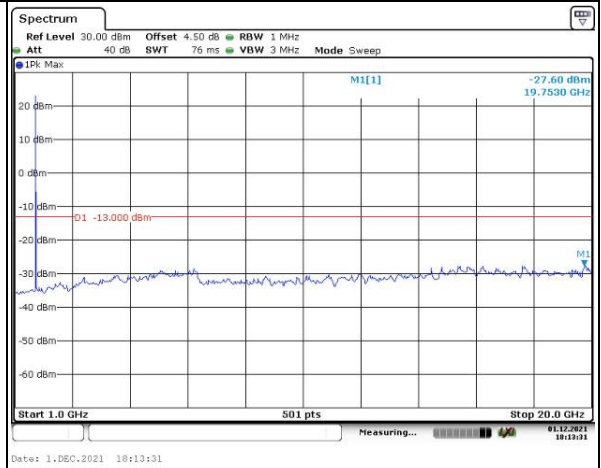
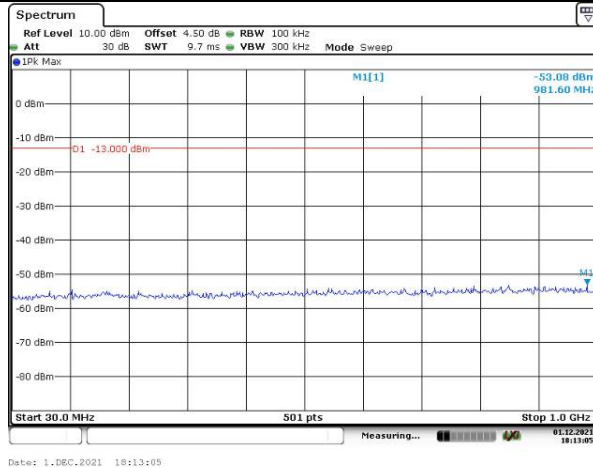
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

### Spurious Emissions at Antenna Terminal

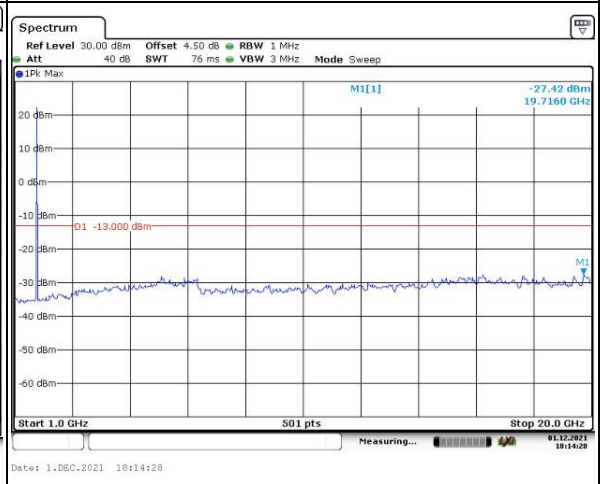
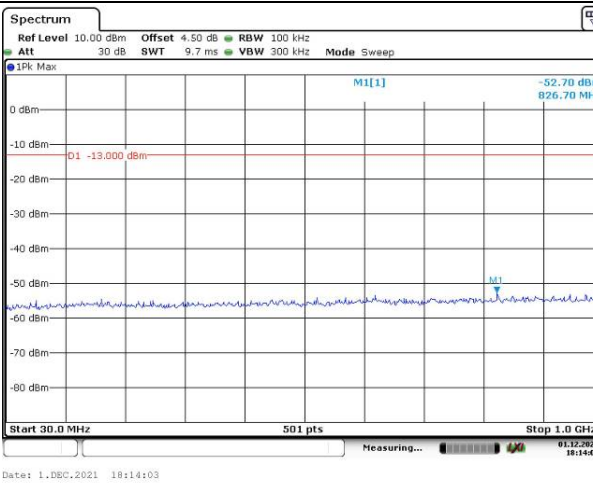
Channel

1.4MHz Bandwidth QPSK

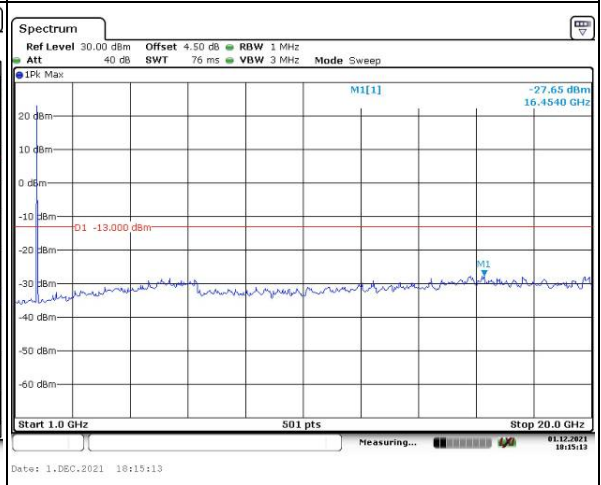
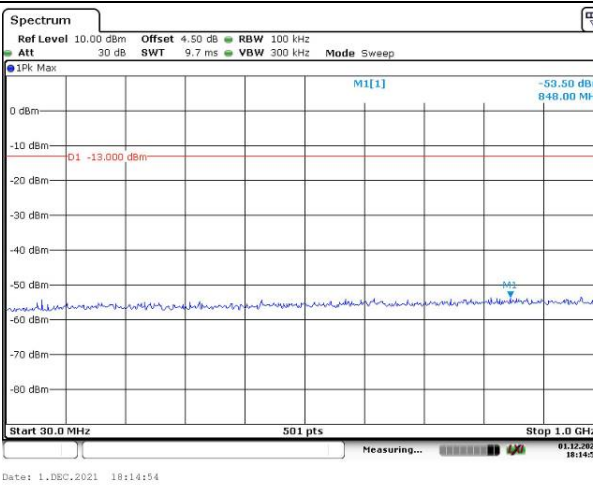
Lowest



Middle



Highest

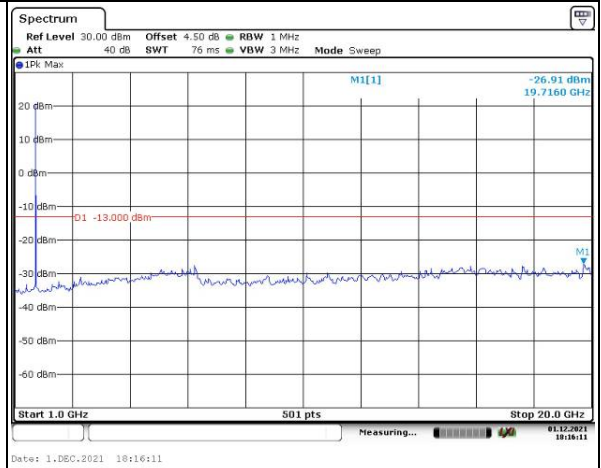
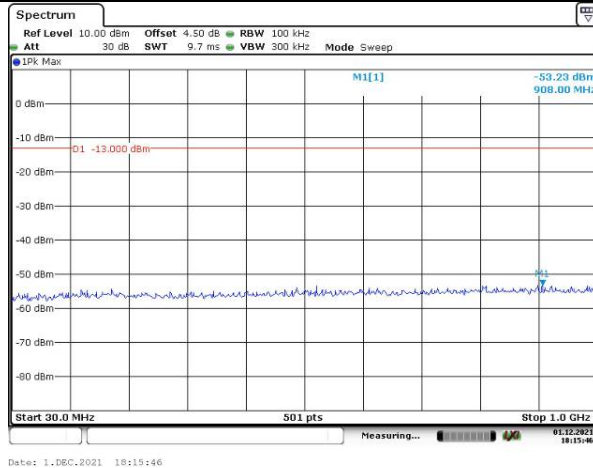


### Spurious Emissions at Antenna Terminal

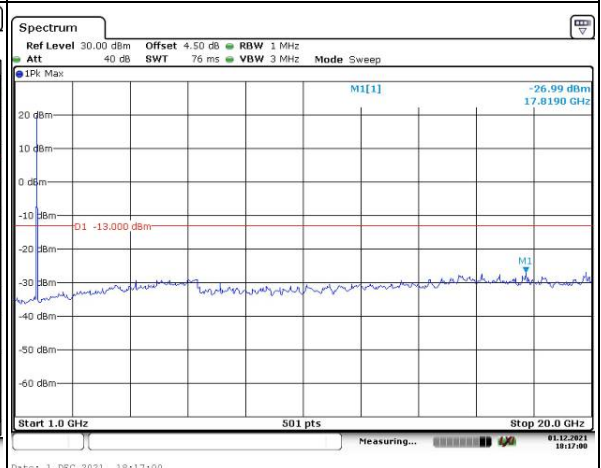
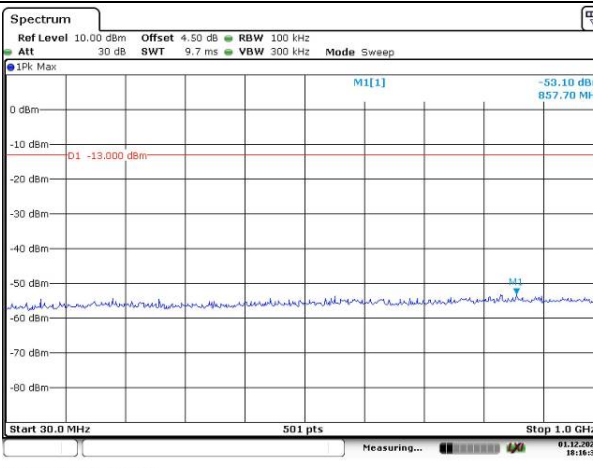
Channel

3MHz Bandwidth QPSK

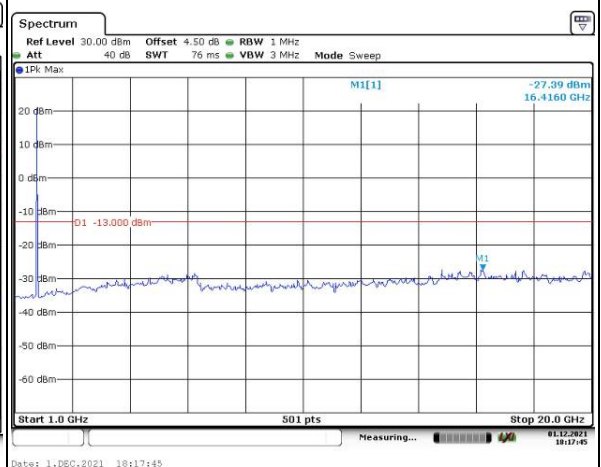
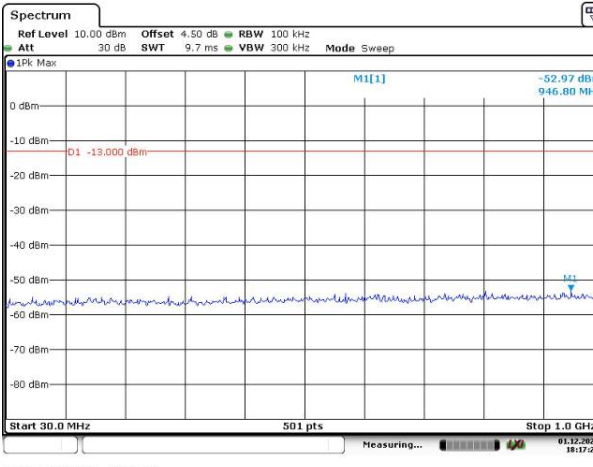
Lowest



Middle



Highest



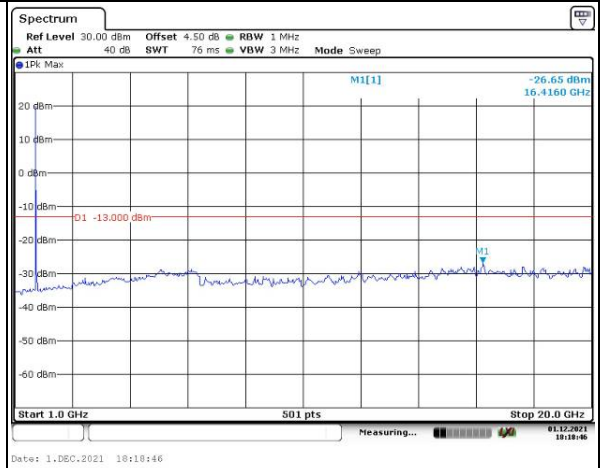
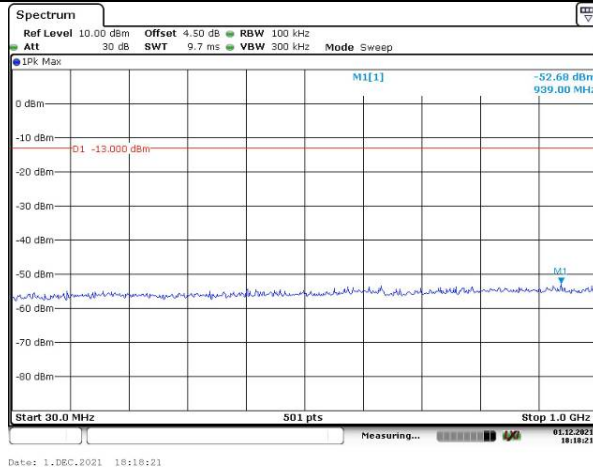


### Spurious Emissions at Antenna Terminal

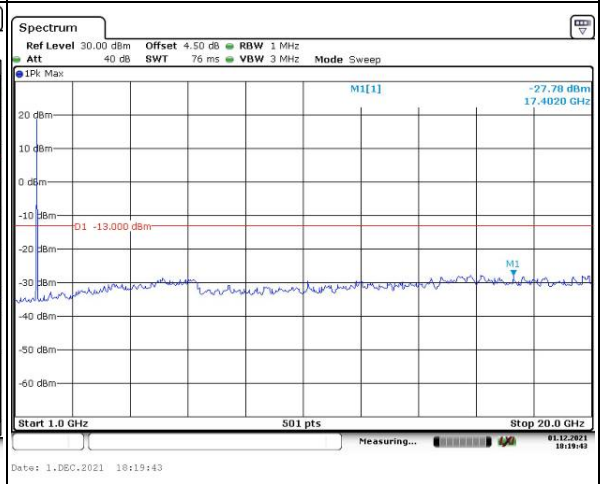
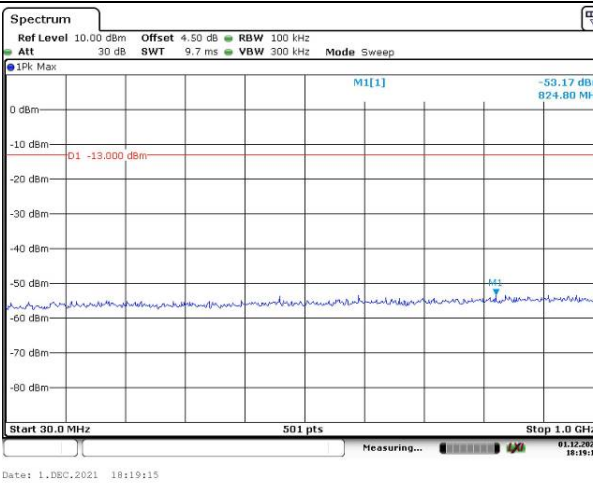
Channel

5MHz Bandwidth QPSK

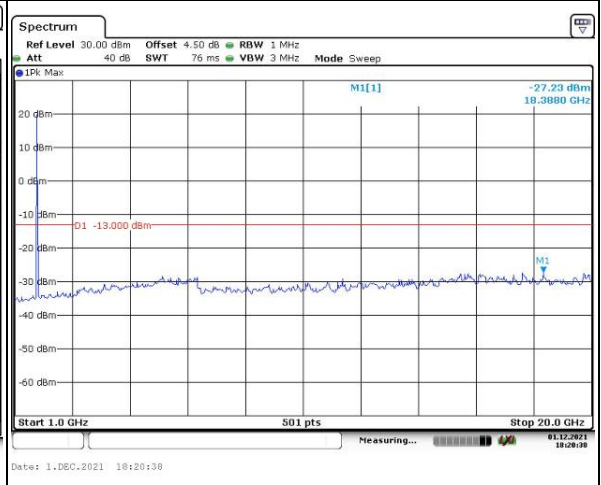
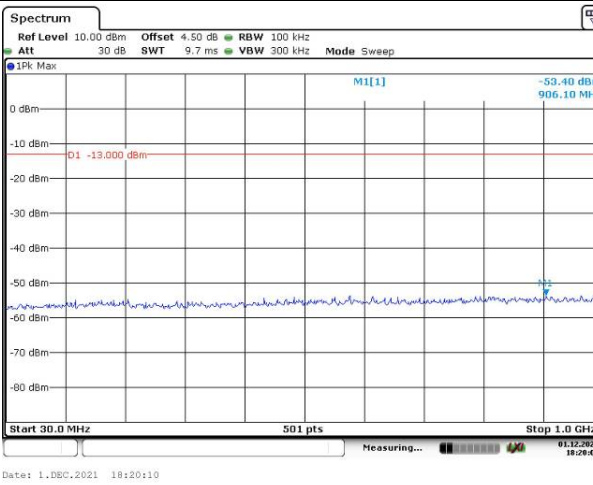
Lowest



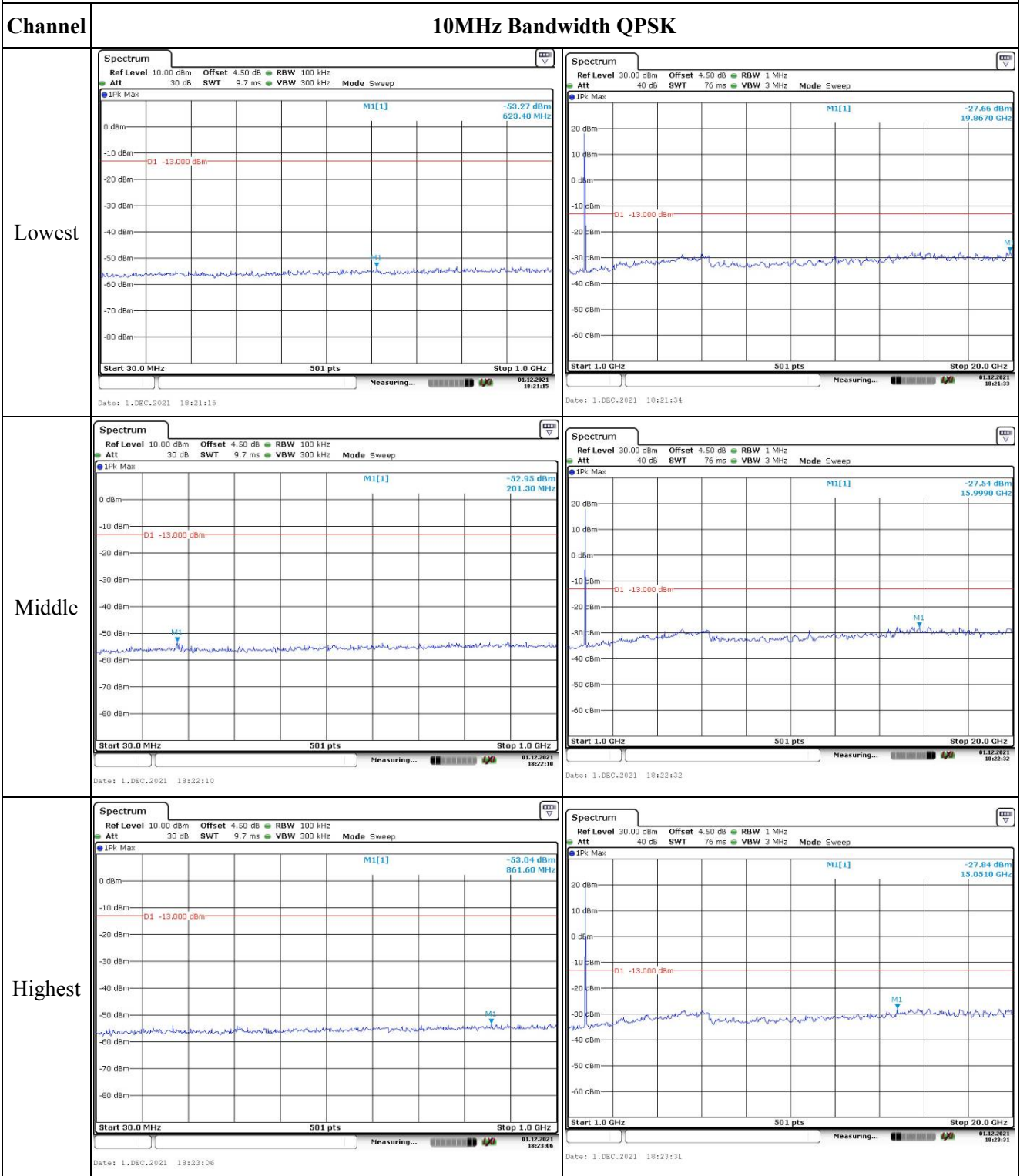
Middle



Highest



### Spurious Emissions at Antenna Terminal

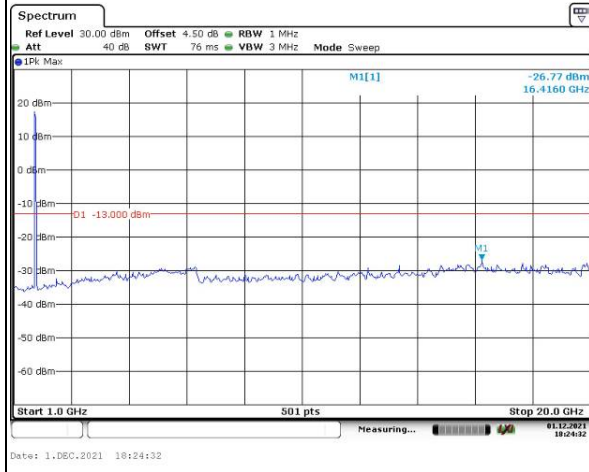
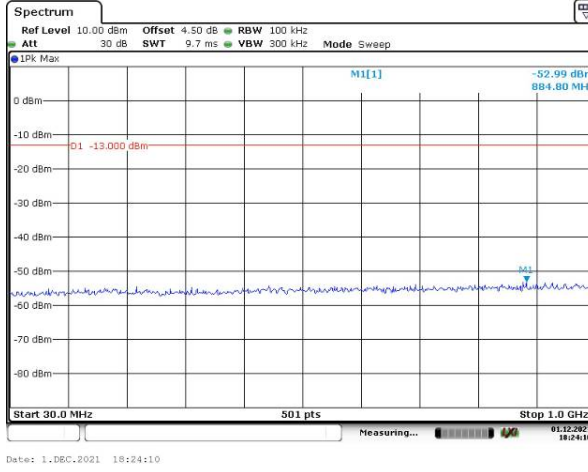


### Spurious Emissions at Antenna Terminal

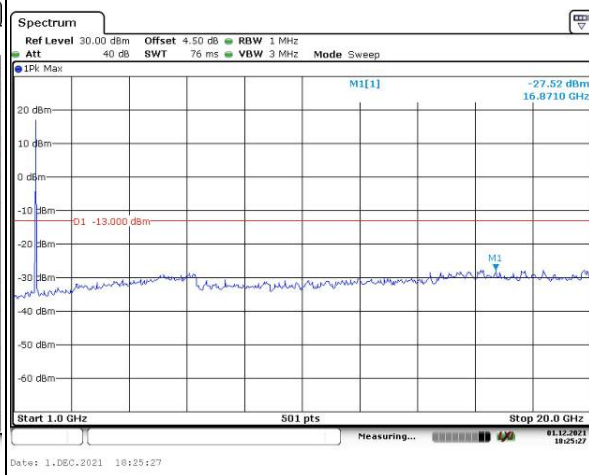
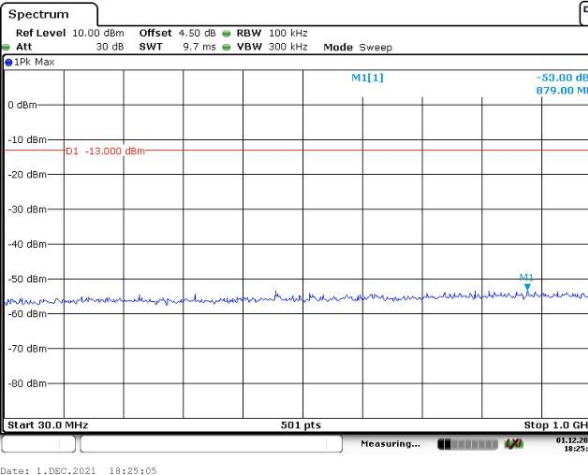
Channel

15MHz Bandwidth QPSK

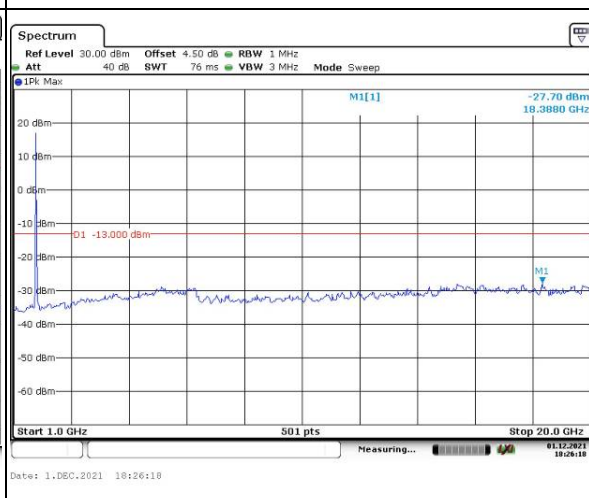
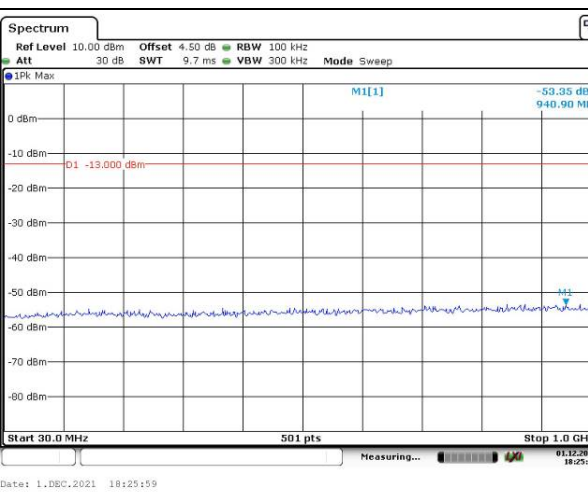
Lowest



Middle



Highest



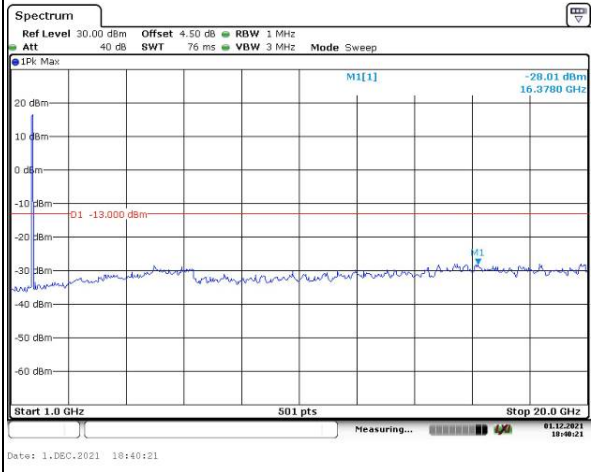
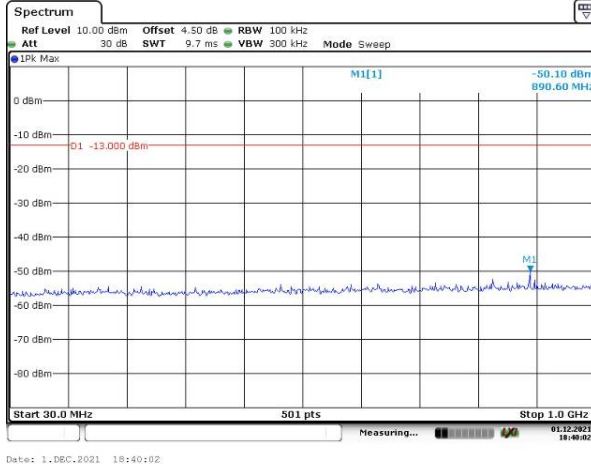


Spurious Emissions at Antenna Terminal

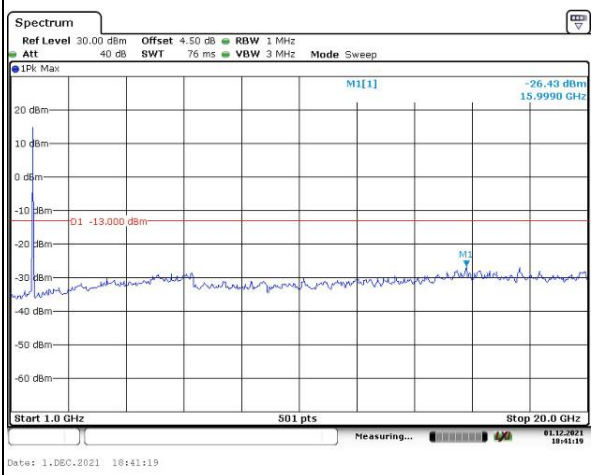
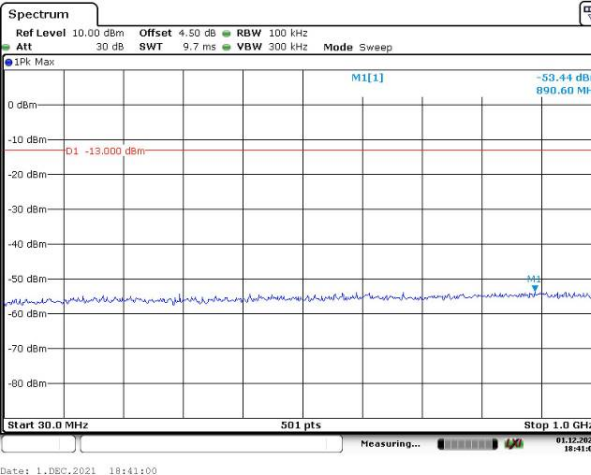
Channel

20MHz Bandwidth QPSK

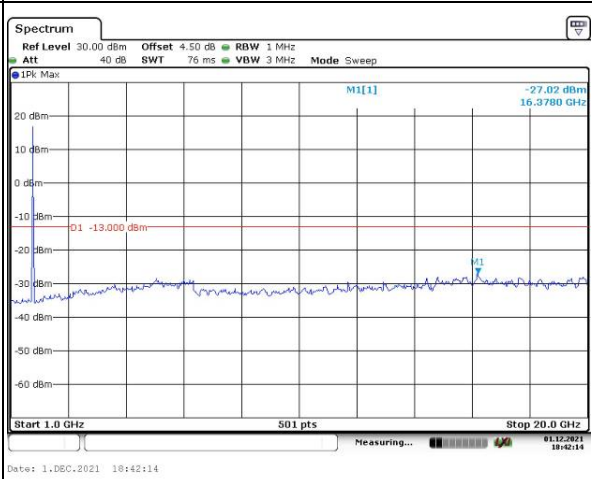
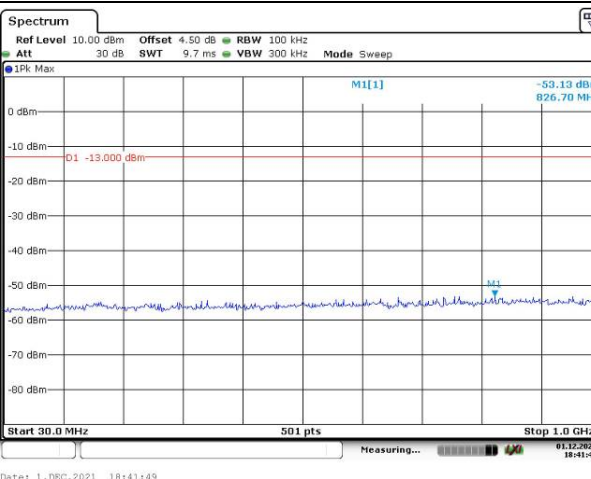
Lowest



Middle



Highest



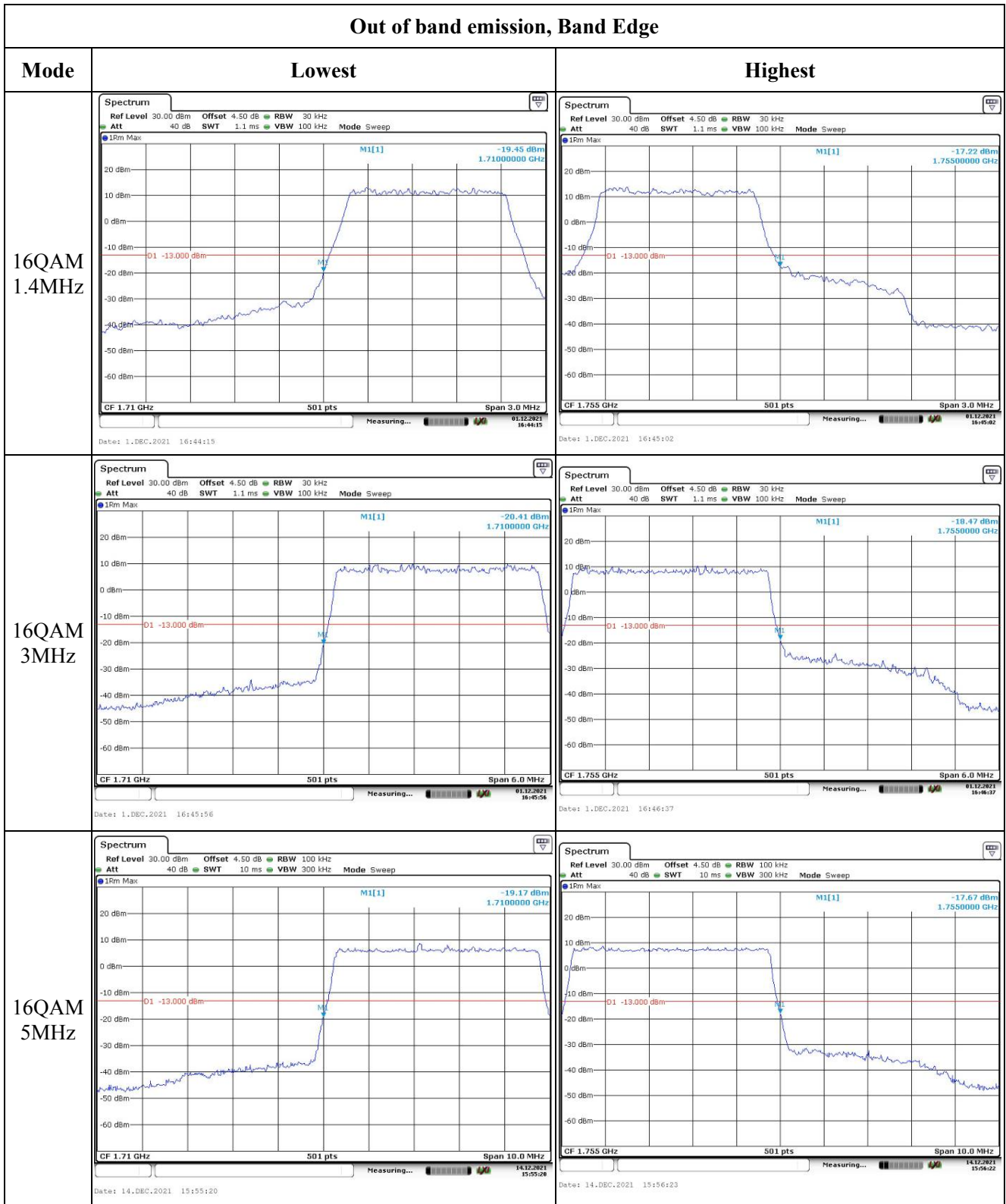
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -18.46 dBm 1.7100000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.71 GHz 501 pts Span 3.0 MHz</p> <p>Date: 1.DEC.2021 16:43:55</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -14.13 dBm 1.7550000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.755 GHz 501 pts Span 3.0 MHz</p> <p>Date: 1.DEC.2021 16:44:42</p>
QPSK 3MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -18.58 dBm 1.7100000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.71 GHz 501 pts Span 6.0 MHz</p> <p>Date: 1.DEC.2021 16:45:33</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -17.37 dBm 1.7550000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.755 GHz 501 pts Span 6.0 MHz</p> <p>Date: 1.DEC.2021 16:46:14</p>
QPSK 5MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 10 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -18.69 dBm 1.7100000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.71 GHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 15:54:48</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 10 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -17.40 dBm 1.7550000 GHz</p> <p>D1 -13.000 dBm</p> <p>CF 1.755 GHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 15:55:50</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -23.08 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 1.DEC.2021 16:49:37</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -20.69 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 20.0 MHz Date: 1.DEC.2021 16:50:39</p>
16QAM 15MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -18.09 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 1.DEC.2021 16:51:42</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -15.65 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 30.0 MHz Date: 1.DEC.2021 16:52:45</p>
16QAM 20MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -24.72 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 1.DEC.2021 17:01:15</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -20.56 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 40.0 MHz Date: 1.DEC.2021 17:02:18</p>



**4.8 Antenna Port Test Data and Results for LTE Band 5:**

Serial Number:	CR21110087-S1	Test Date:	2021/11/23~2021/11/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Wolf Mo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	101.1
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	Spectrum Analyzer	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D09	N/A	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	Each Time	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**EUT Information@ LTE Band 5▲:**

Antenna Gain (dBi):	0	Antenna Gain (dBd):	-2.15	Cable Loss (dB):	0.1
Operation Voltage(V <sub>DC</sub> ):					
Lowest:	3.5	Normal:	3.7	Highest:	4.2

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

**Test Data:**

<b>FCC§2.1046;§ 22.913 (a)</b>						
<b>RF Output Power:</b>						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	23.57	23.67	23.40	21.45	38.45
	RB1#3	23.43	23.55	23.42		
	RB1#5	23.50	23.51	23.52		
	RB3#0	23.64	23.64	23.63		
	RB3#3	23.49	23.70	23.48		
	RB6#0	22.61	22.72	22.52		
1.4MHz 16QAM	RB1#0	22.39	22.62	22.46	20.51	38.45
	RB1#3	22.37	22.76	22.59		
	RB1#5	22.22	22.71	22.15		
	RB3#0	22.36	22.76	22.63		
	RB3#3	22.31	22.56	22.37		
	RB6#0	21.60	21.74	21.49		
3MHz QPSK	RB1#0	23.40	23.73	23.47	21.52	38.45
	RB1#8	23.27	23.54	23.32		
	RB1#14	23.45	23.77	23.41		
	RB6#0	22.61	22.55	22.66		
	RB6#9	22.53	22.70	22.47		
	RB15#0	22.67	22.74	22.55		
3MHz 16QAM	RB1#0	22.77	23.15	22.71	20.9	38.45
	RB1#8	22.45	22.78	22.52		
	RB1#14	22.68	22.91	22.52		
	RB6#0	21.51	21.64	21.61		
	RB6#9	21.60	21.81	21.46		
	RB15#0	21.64	21.77	21.68		
5MHz QPSK	RB1#0	23.12	23.59	23.40	21.45	38.45
	RB1#13	23.48	23.57	23.31		
	RB1#24	23.47	23.70	23.45		
	RB15#0	22.64	22.64	22.75		
	RB15#10	22.55	22.72	22.57		
	RB25#0	22.73	22.67	22.60		
5MHz 16QAM	RB1#0	22.42	22.88	22.22	20.63	38.45
	RB1#13	21.68	22.58	22.33		
	RB1#24	21.88	22.73	22.62		
	RB15#0	21.58	21.34	21.59		
	RB15#10	21.50	21.47	21.50		
	RB25#0	21.77	21.57	21.64		
10MHz QPSK	RB1#0	23.53	23.81	23.70	21.56	38.45

	RB1#25	23.51	23.53	23.61		
	RB1#49	23.70	23.63	23.38		
	RB25#0	22.75	22.68	22.73		
	RB25#25	22.60	22.67	22.64		
	RB50#0	22.70	22.74	22.71		
10MHz 16QAM	RB1#0	22.81	22.91	22.69	20.66	38.45
	RB1#25	22.74	22.78	22.67		
	RB1#49	22.72	22.86	22.28		
	RB25#0	21.86	21.78	22.06		
	RB25#25	21.52	21.69	21.53		
	RB50#0	21.64	21.73	21.54		
Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)						
					<b>Result:</b>	<b>Pass</b>

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.26	4.70	4.26	13
	RB50#0	5.16	4.96	4.99	13
10MHz 16QAM	RB1#0	5.25	5.83	5.19	13
	RB50#0	6.00	5.94	5.88	13
<b>Result:</b>					<b>Pass</b>

FCC §2.1049, §22.905:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.096	1.102	1.102	1.326	1.320	1.296
1.4MHz 16QAM	1.102	1.096	1.102	1.314	1.296	1.302
3MHz QPSK	2.683	2.695	2.683	2.940	2.940	2.964
3MHz 16QAM	2.683	2.683	2.683	2.976	2.952	2.964
5MHz QPSK	4.531	4.511	4.511	5.060	5.060	5.060
5MHz 16QAM	4.531	4.531	4.551	5.040	5.060	5.060
10MHz QPSK	8.981	8.942	8.981	9.800	9.640	9.800
10MHz 16QAM	8.981	8.942	8.981	9.720	9.760	9.800
Note: The test plots please refer to the Plots of Occupied Bandwidth						

**FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>
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**FCC §2.1051, §22.917(a):Out of band emission, Band Edge**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>
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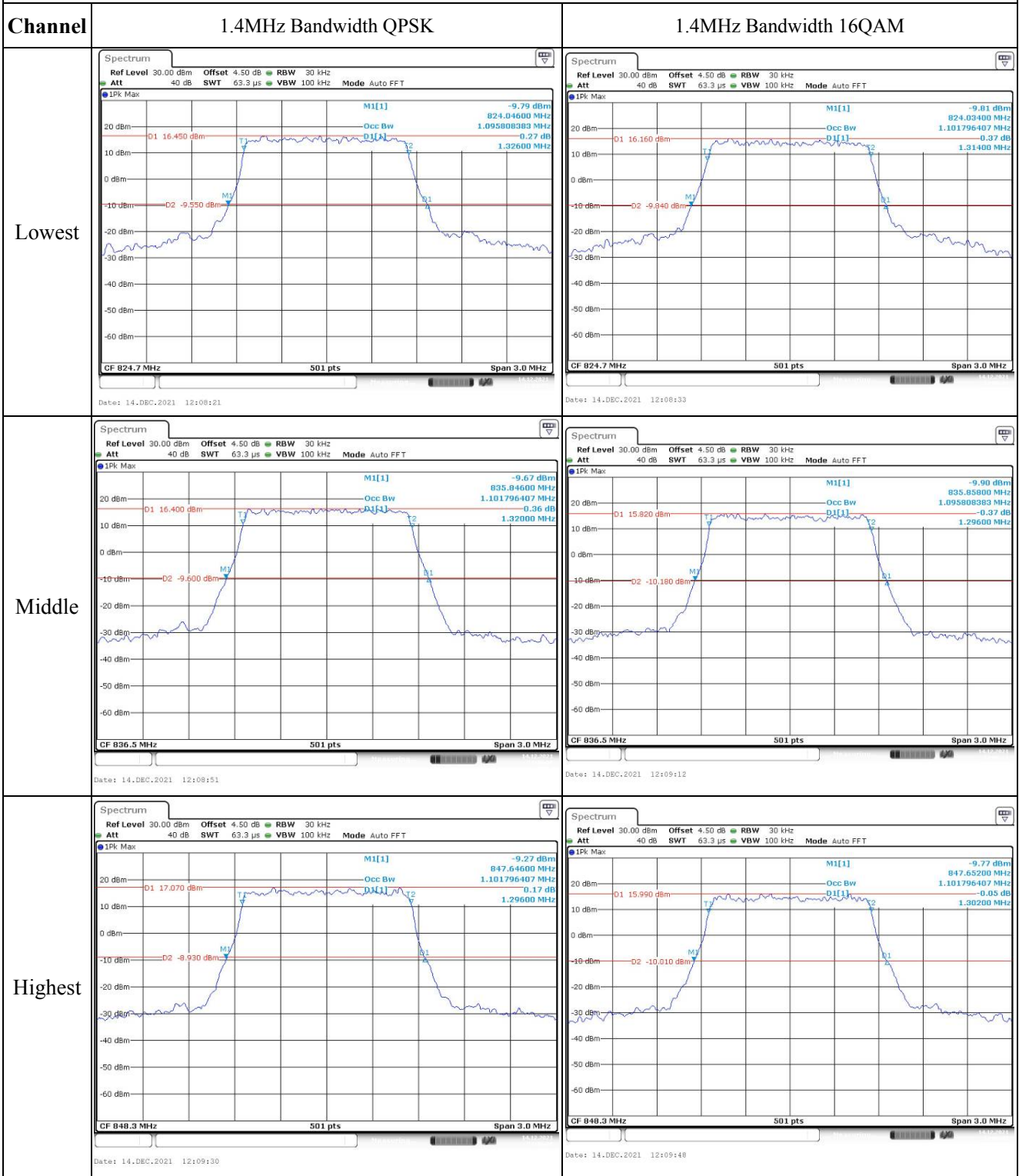
**FCC §2.1055, §22.355: Frequency Stability**

Test Mode:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.7	-0.56	-0.001	2.5
	-20	3.7	5.39	0.006	2.5
	-10	3.7	-5.39	-0.006	2.5
	0	3.7	-8.69	-0.010	2.5
	10	3.7	-5.65	-0.007	2.5
	20	3.7	8.30	0.010	2.5
	30	3.7	-9.55	-0.011	2.5
	40	3.7	8.98	0.011	2.5
Frequency Stability vs. Voltage	20	3.5	5.51	0.007	2.5
	20	4.2	7.76	0.009	2.5
<b>Result:</b>				<b>Pass</b>	

Test Mode:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.7	-0.86	-0.001	2.5
	-20	3.7	-6.21	-0.007	2.5
	-10	3.7	-8.48	-0.010	2.5
	0	3.7	9.08	0.011	2.5
	10	3.7	-5.15	-0.006	2.5
	20	3.7	-6.76	-0.008	2.5
	30	3.7	-5.42	-0.006	2.5
	40	3.7	-6.01	-0.007	2.5
Frequency Stability vs. Voltage	20	3.5	6.81	0.008	2.5
	20	4.2	7.22	0.009	2.5
<b>Result:</b>				<b>Pass</b>	

Test Plots:

Occupied Bandwidth





**Occupied Bandwidth**

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -11.50 dBm 824.0240 MHz Occ Bw 2.682634731 MHz D1[1] 0.40 dB 2.9400 MHz</p> <p>D1 14.460 dBm D2 -11.540 dBm</p> <p>CF 825.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:10:18</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -12.95 dBm 824.0240 MHz Occ Bw 2.682634731 MHz D1[1] -0.49 dB 2.9760 MHz</p> <p>D1 12.890 dBm D2 -13.110 dBm</p> <p>CF 825.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:10:36</p>
Middle	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -11.25 dBm 835.0360 MHz Occ Bw 2.694610779 MHz D1[1] -0.53 dB 2.9400 MHz</p> <p>D1 14.390 dBm D2 -11.610 dBm</p> <p>CF 836.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:10:57</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -13.25 dBm 835.0240 MHz Occ Bw 2.682634731 MHz D1[1] 0.72 dB 2.9520 MHz</p> <p>D1 13.190 dBm D2 -12.810 dBm</p> <p>CF 836.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:11:12</p>
Highest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -12.99 dBm 846.0120 MHz Occ Bw 2.682634731 MHz D1[1] 0.48 dB 2.9640 MHz</p> <p>D1 13.720 dBm D2 -12.280 dBm</p> <p>CF 847.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:11:31</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT</p> <p>M1[1] -13.20 dBm 846.0120 MHz Occ Bw 2.682634731 MHz D1[1] 0.26 dB 2.9640 MHz</p> <p>D1 13.430 dBm D2 -12.570 dBm</p> <p>CF 847.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 14.DEC.2021 12:11:48</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -9.84 dBm 823.9600 MHz Occ Bw 4.530938124 MHz -0.42 dB D1[1] 5.0600 MHz</p> <p>D1 16.800 dBm D2 -9.200 dBm</p> <p>CF 826.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:12:22</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -9.37 dBm 823.9800 MHz Occ Bw 4.530938124 MHz -1.26 dB D1[1] 5.0400 MHz</p> <p>D1 15.950 dBm D2 -10.050 dBm</p> <p>CF 826.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:12:42</p>
Middle	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -10.36 dBm 833.9800 MHz Occ Bw 4.510978004 MHz -0.05 dB D1[1] 5.0600 MHz</p> <p>D1 15.960 dBm D2 -10.040 dBm</p> <p>CF 836.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:13:13</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -11.58 dBm 833.9800 MHz Occ Bw 4.530938124 MHz 0.58 dB D1[1] 5.0600 MHz</p> <p>D1 14.830 dBm D2 -11.170 dBm</p> <p>CF 836.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:13:40</p>
Highest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -10.12 dBm 843.9800 MHz Occ Bw 4.510978004 MHz -0.11 dB D1[1] 5.0600 MHz</p> <p>D1 16.530 dBm D2 -9.470 dBm</p> <p>CF 846.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:14:05</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -10.34 dBm 843.9800 MHz Occ Bw 4.550898204 MHz -0.96 dB D1[1] 5.0600 MHz</p> <p>D1 14.940 dBm D2 -11.060 dBm</p> <p>CF 846.5 MHz 501 pts Span 10.0 MHz</p> <p>Date: 14.DEC.2021 12:14:32</p>

Occupied Bandwidth

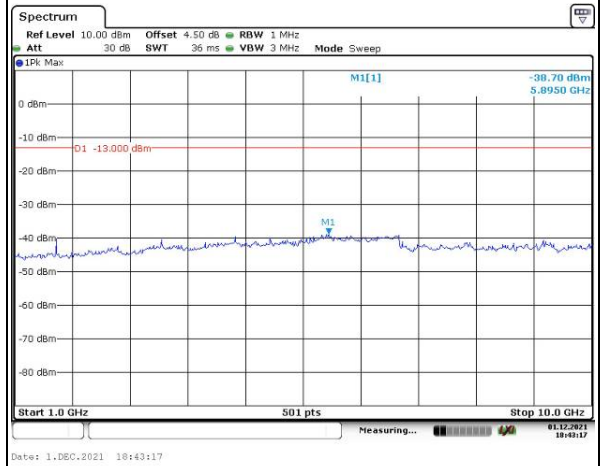
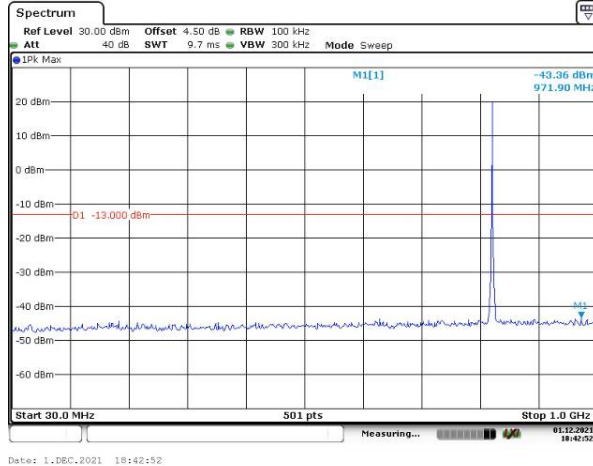
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -11.87 dBm 824.0400 MHz 8.982035928 MHz 0.57 dB</p> <p>Occ Bw 9.8000 MHz</p> <p>D1 14.200 dBm D2 -11.800 dBm</p> <p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:15:07</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -12.50 dBm 824.1200 MHz 8.982035928 MHz 0.82 dB</p> <p>Occ Bw 9.7200 MHz</p> <p>D1 13.300 dBm D2 -12.700 dBm</p> <p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:15:32</p>
Middle	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -11.23 dBm 831.7000 MHz 8.942115768 MHz -0.12 dB</p> <p>Occ Bw 9.6400 MHz</p> <p>D1 14.500 dBm D2 -11.500 dBm</p> <p>CF 836.5 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:16:01</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -13.92 dBm 831.6200 MHz 8.942115768 MHz 0.97 dB</p> <p>Occ Bw 9.7600 MHz</p> <p>D1 12.730 dBm D2 -13.270 dBm</p> <p>CF 836.5 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:16:23</p>
Highest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -12.09 dBm 839.0400 MHz 8.982035928 MHz -0.34 dB</p> <p>Occ Bw 9.8000 MHz</p> <p>D1 14.000 dBm D2 -12.000 dBm</p> <p>CF 844.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:16:49</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -12.01 dBm 839.0800 MHz 8.982035928 MHz -1.22 dB</p> <p>Occ Bw 9.8000 MHz</p> <p>D1 13.280 dBm D2 -12.710 dBm</p> <p>CF 844.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 14.DEC.2021 12:17:20</p>

### Spurious Emissions at Antenna Terminal

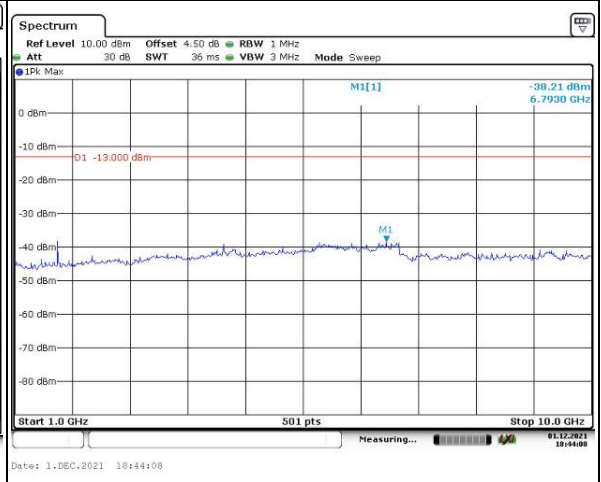
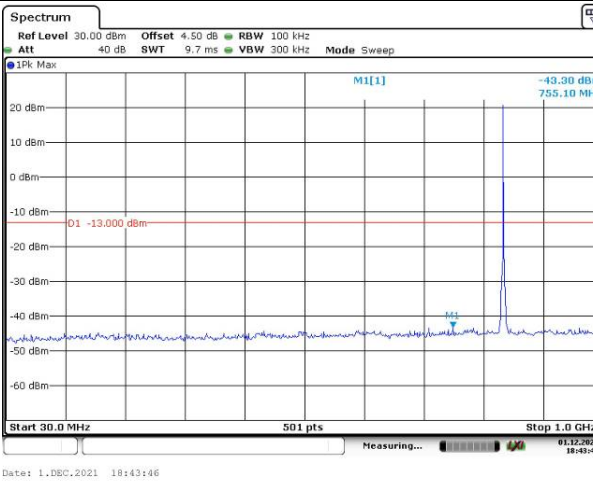
Channel

1.4MHz Bandwidth QPSK

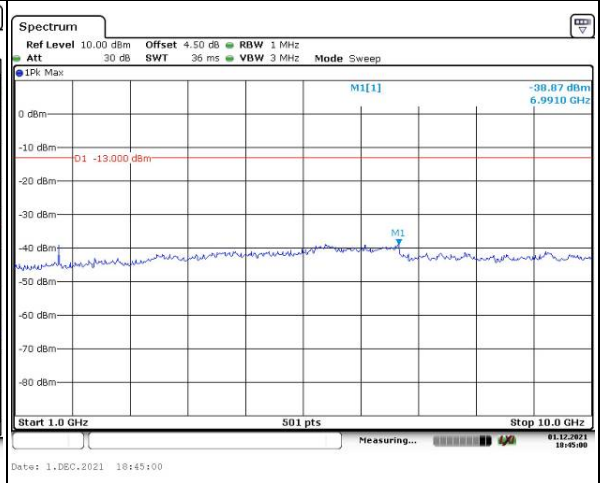
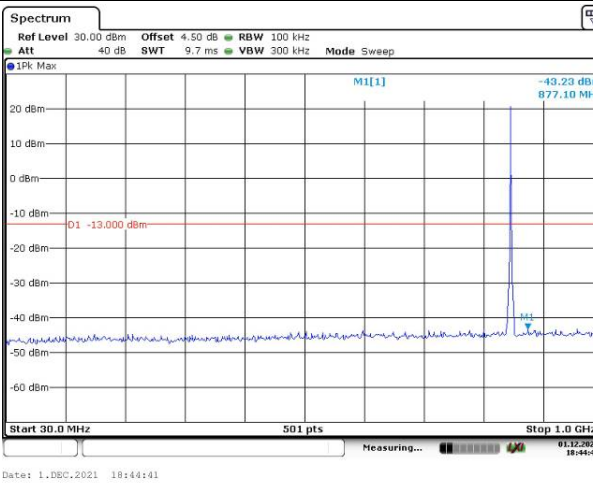
Lowest



Middle



Highest



### Spurious Emissions at Antenna Terminal

