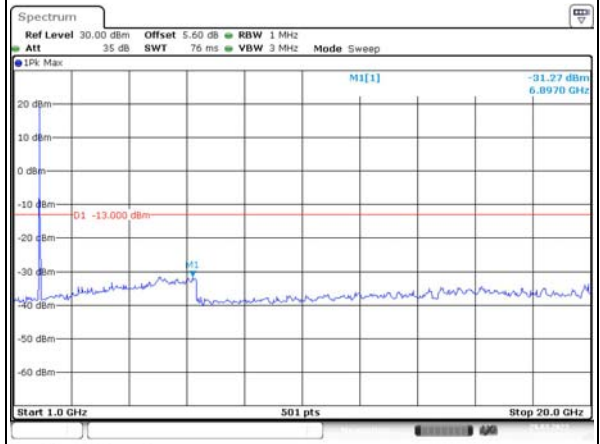
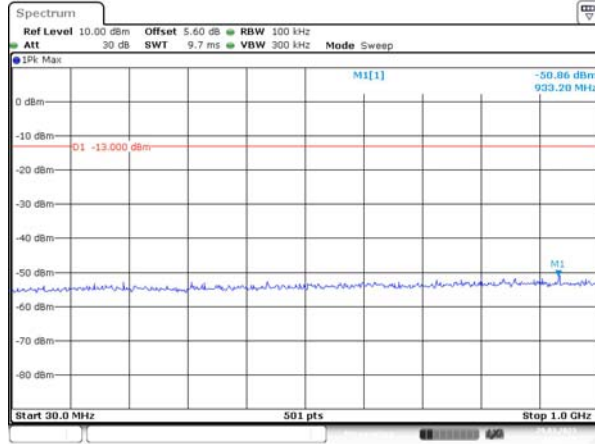


Spurious Emissions at Antenna Terminal

Channel

15MHz Bandwidth QPSK

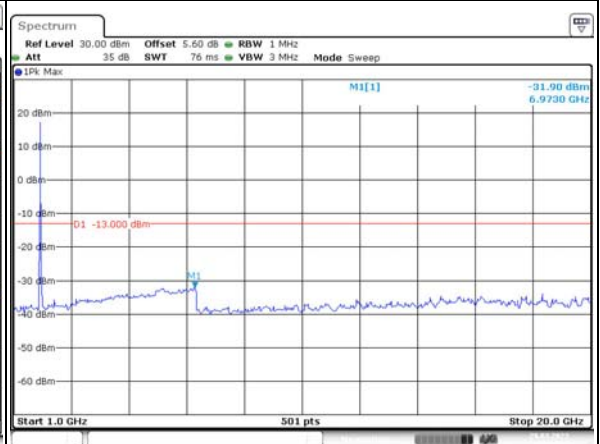
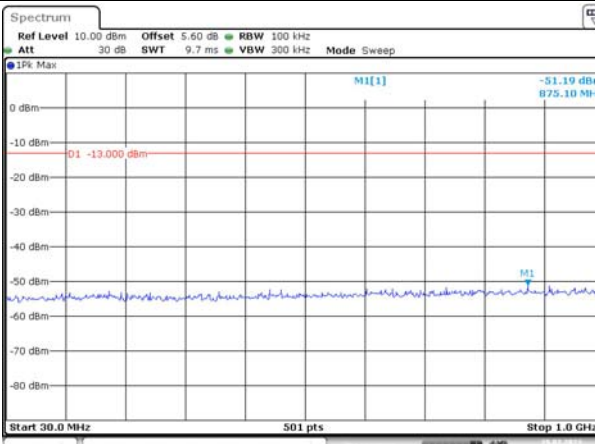
Lowest



Date: 29\_MAR\_2023 03:07:14

Date: 29\_MAR\_2023 03:08:11

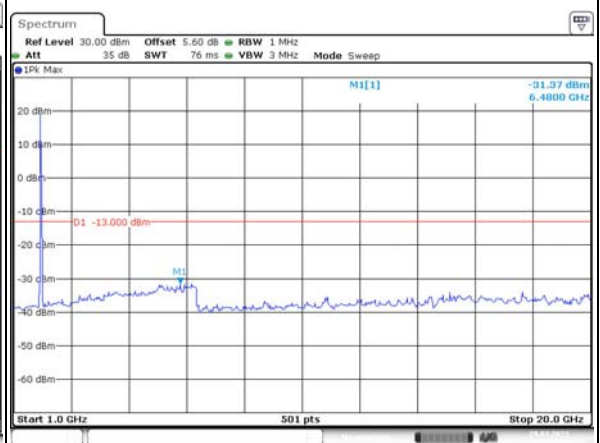
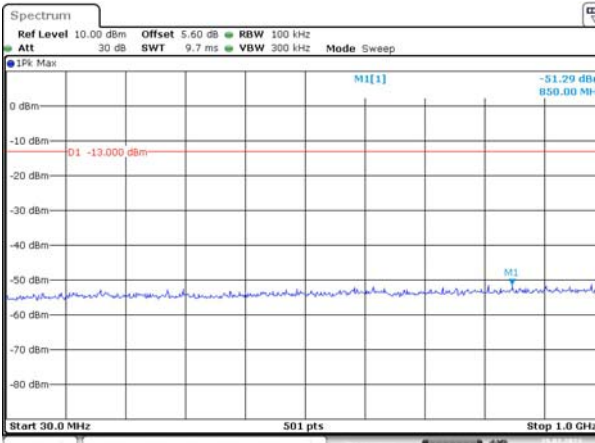
Middle



Date: 29\_MAR\_2023 03:09:49

Date: 29\_MAR\_2023 03:09:22

Highest



Date: 29\_MAR\_2023 03:10:03

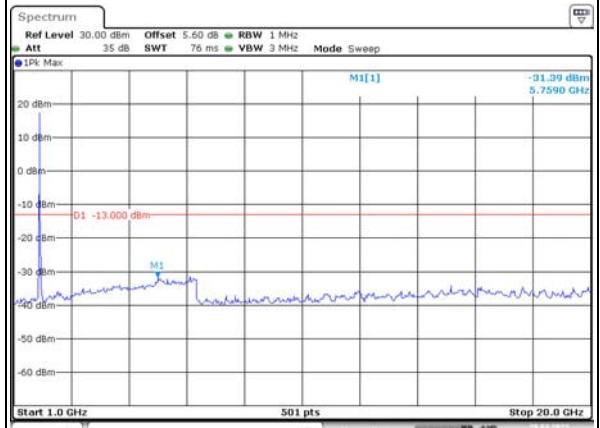
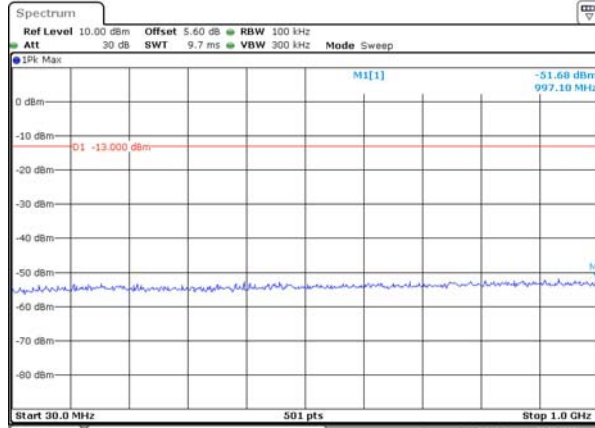
Date: 29\_MAR\_2023 03:10:17

Spurious Emissions at Antenna Terminal

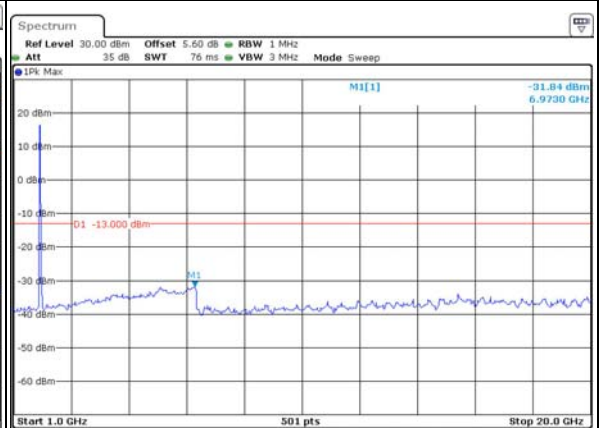
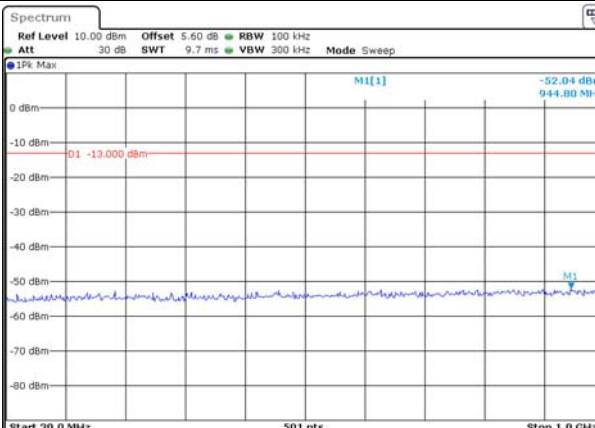
Channel

20MHz Bandwidth QPSK

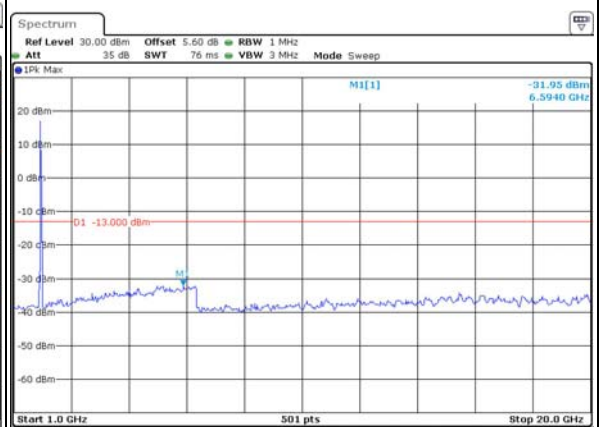
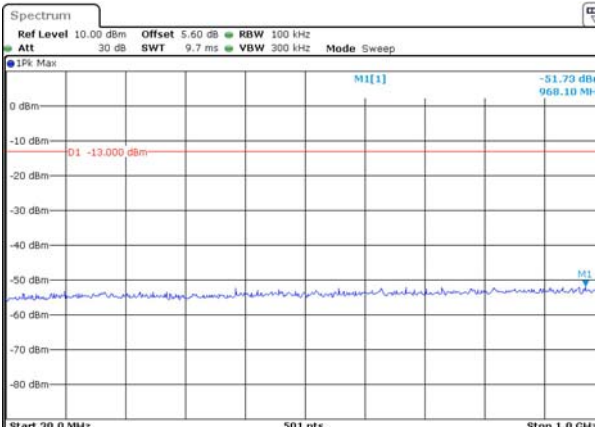
Lowest



Middle



Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		

Out of band emission, Band Edge

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

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

**4.7 Antenna Port Test Data and Results for LTE Band 4**

Serial Number:	23CF-1	Test Date:	2023/3/29~2023/4/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.3~25.6	Relative Humidity: (%)	26~45	ATM Pressure: (kPa)	100.3~101.4
----------------------	-----------	---------------------------	-------	------------------------	-------------

**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/3/31	2023/3/30
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	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).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

**Test Data:**

<b>RF Output Power:</b>						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP(dBm)	EIRP Limit(dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.3	22.79	23.51	20.08	30
	RB1#3	22.48	22.95	23.48		
	RB1#5	22.32	22.78	23.19		
	RB3#0	22.34	22.78	23.11		
	RB3#3	22.37	22.59	23.14		
	RB6#0	21.37	21.85	22.44		
1.4MHz 16QAM	RB1#0	21.4	21.57	22.04	18.92	30
	RB1#3	21.59	21.95	22.26		
	RB1#5	21.38	21.76	22.1		
	RB3#0	21.28	21.72	22.32		
	RB3#3	21.25	21.87	22.35		
	RB6#0	20.39	20.85	21.59		
3MHz QPSK	RB1#0	22.35	22.85	23.53	20.19	30
	RB1#8	22.4	22.87	23.62		
	RB1#14	22.37	22.88	23.59		
	RB6#0	21.28	21.85	22.6		
	RB6#9	21.34	21.91	22.58		
	RB15#0	21.37	21.92	22.6		
3MHz 16QAM	RB1#0	21.34	22.31	22.67	19.32	30
	RB1#8	21.35	22.35	22.75		
	RB1#14	21.32	22.38	22.69		
	RB6#0	20.23	20.88	21.57		
	RB6#9	20.28	20.94	21.63		
	RB15#0	20.4	20.96	21.6		
5MHz QPSK	RB1#0	22.23	22.67	23.47	20.18	30
	RB1#13	22.4	22.92	23.61		
	RB1#24	22.33	22.82	23.53		
	RB15#0	21.34	21.9	22.6		
	RB15#10	21.46	21.93	22.67		
	RB25#0	21.41	21.92	22.59		
5MHz 16QAM	RB1#0	21.24	21.57	22.73	19.46	30
	RB1#13	21.41	21.78	22.89		
	RB1#24	21.36	21.74	22.7		
	RB15#0	20.36	20.96	21.6		
	RB15#10	20.48	20.97	21.63		
	RB25#0	20.37	20.94	21.59		
10MHz QPSK	RB1#0	22.31	22.74	23.33	20.19	30
	RB1#25	22.53	23.05	23.62		
	RB1#49	22.55	23.09	23.6		
	RB25#0	21.33	21.91	22.5		



	RB25#25	21.56	22.04	22.67		
	RB50#0	21.48	21.98	22.58		
10MHz 16QAM	RB1#0	21.44	21.71	22.86	19.72	30
	RB1#25	21.71	21.97	23.15		
	RB1#49	21.65	22.06	23.1		
	RB25#0	20.34	21	21.55		
	RB25#25	20.55	21.11	21.7		
	RB50#0	20.47	21	21.62		
15MHz QPSK	RB1#0	22.23	22.59	23.05	20.11	30
	RB1#38	22.48	22.9	23.48		
	RB1#74	22.57	23.04	23.54		
	RB36#0	21.42	21.89	22.4		
	RB36#39	21.69	22.11	22.67		
15MHz 16QAM	RB1#0	21.58	22.04	22.22	19.24	30
	RB1#38	21.83	22.38	22.62		
	RB1#74	21.89	22.58	22.67		
	RB36#0	20.38	20.88	21.42		
	RB36#39	20.66	21.12	21.69		
	RB75#0	20.5	21.01	21.54		
20MHz QPSK	RB1#0	22.06	22.27	22.69	20.02	30
	RB1#50	22.72	23.01	23.45		
	RB1#99	22.56	23	23.41		
	RB50#0	21.36	21.87	22.24		
	RB50#50	21.67	22.09	22.6		
	RB100#0	21.53	21.97	22.4		
20MHz 16QAM	RB1#0	21.24	21.83	21.98	19.35	30
	RB1#50	21.85	22.46	22.78		
	RB1#99	21.73	22.52	22.66		
	RB50#0	20.34	20.82	21.21		
	RB50#50	20.64	21.08	21.54		
	RB100#0	20.51	20.96	21.43		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)

**Result:**

**Pass**

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	
20MHz QPSK	RB1#0	4.38	3.94	3.97	13
	RB100#0	3.88	3.91	3.97	13
20MHz 16QAM	RB1#0	5.13	4.9	5.01	13
	RB100#0	5.62	5.62	5.68	13
				<b>Result:</b>	<b>Pass</b>

<b>Occupied Bandwidth</b>						
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	1.314	1.296	1.302
1.4MHz 16QAM	1.096	1.09	1.102	1.284	1.284	1.32
3MHz QPSK	2.695	2.683	2.683	2.88	2.892	2.88
3MHz 16QAM	2.683	2.683	2.683	2.88	2.868	2.892
5MHz QPSK	4.531	4.511	4.511	5.16	5.2	5.18
5MHz 16QAM	4.511	4.551	4.551	5.14	5.16	5.22
10MHz QPSK	8.942	8.982	8.982	9.92	10.04	9.88
10MHz 16QAM	8.942	8.942	8.982	9.88	9.84	9.88
15MHz QPSK	13.593	13.533	13.533	15.24	15.18	15.42
15MHz 16QAM	13.533	13.533	13.533	15.12	15.12	15.3
20MHz QPSK	17.964	18.044	17.964	19.92	19.68	21.84
20MHz 16QAM	17.964	17.964	18.044	19.76	19.6	24.48

Note: The test plots please refer to the Plots of Occupied Bandwidth

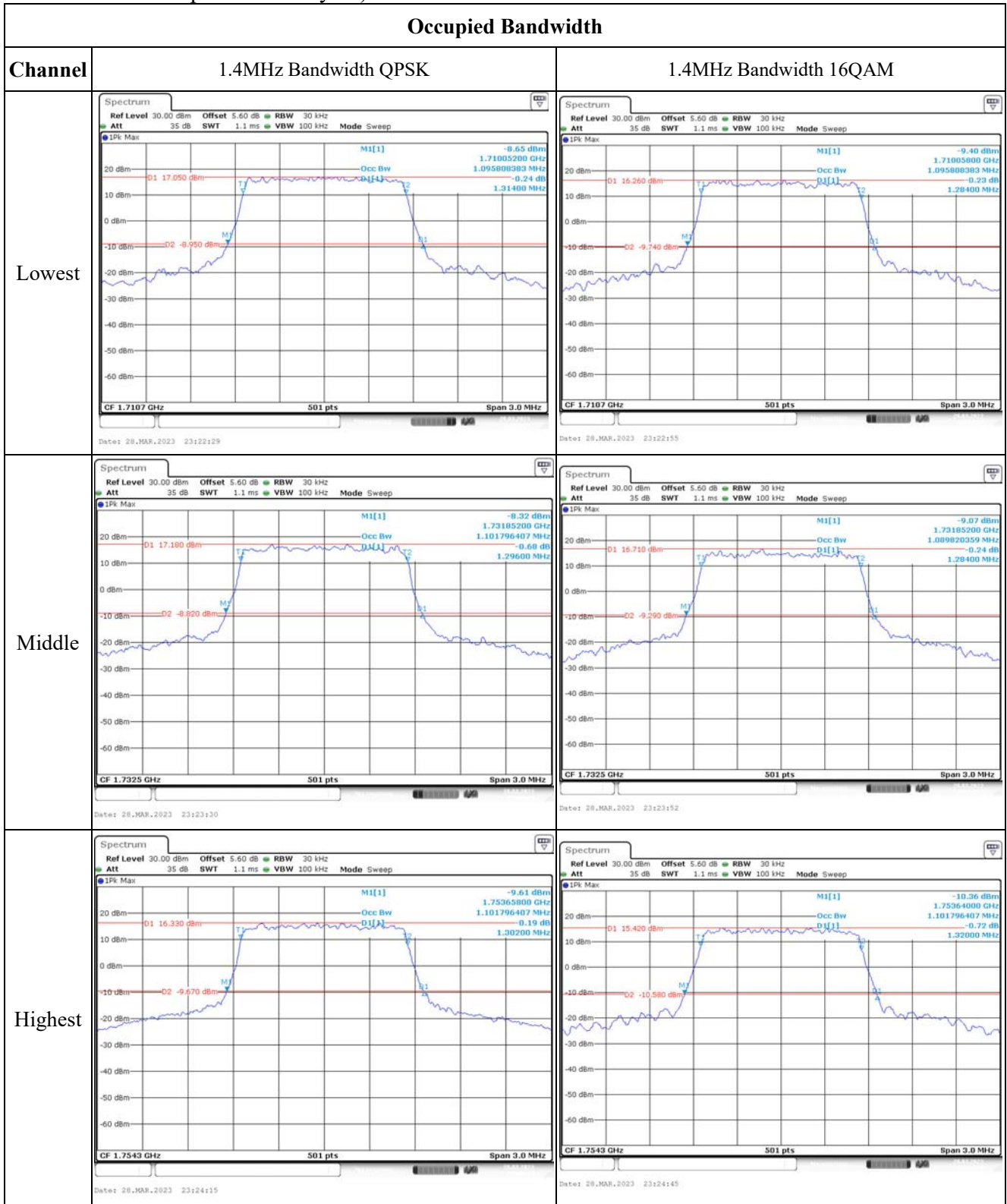
<b>Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

<b>Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>Frequency Stability</b>						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.025	1710.00	1753.928	1755
	-20	3.8	1711.022	1710.00	1753.926	1755
	-10	3.8	1711.002	1710.00	1753.919	1755
	0	3.8	1711.001	1710.00	1753.928	1755
	10	3.8	1711.017	1710.00	1753.940	1755
	20	3.8	1711.029	1710.00	1753.914	1755
	30	3.8	1711.020	1710.00	1753.919	1755
	40	3.8	1711.010	1710.00	1753.934	1755
	50	3.8	1711.020	1710.00	1753.918	1755
Frequency Stability vs. Voltage	20	3.6	1711.007	1710.00	1753.921	1755
	20	4.35	1711.024	1710.00	1753.922	1755
					<b>Result:</b>	<b>Pass</b>

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.024	1710.00	1753.990	1755
	-20	3.8	1711.010	1710.00	1753.979	1755
	-10	3.8	1711.008	1710.00	1753.993	1755
	0	3.8	1711.006	1710.00	1753.990	1755
	10	3.8	1711.003	1710.00	1753.983	1755
	20	3.8	1711.029	1710.00	1753.971	1755
	30	3.8	1711.008	1710.00	1753.997	1755
	40	3.8	1711.005	1710.00	1753.975	1755
	50	3.8	1711.023	1710.00	1754.000	1755
Frequency Stability vs. Voltage	20	3.6	1711.019	1710.00	1753.980	1755
	20	4.35	1711.013	1710.00	1753.997	1755
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 5.6 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -12.15 dBm Occ Bw 1.7100600 GHz D1[1] 2.694610778 MHz 0.59 dB D2 2.8800 MHz</p> <p>O1 14.970 dBm O2 -11.030 dBm</p> <p>CF 1.7115 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:27:01</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -12.41 dBm Occ Bw 1.7100600 GHz D1[1] 2.682634731 MHz 0.60 dB D2 2.8800 MHz</p> <p>O1 13.580 dBm O2 -12.420 dBm</p> <p>CF 1.7115 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:27:27</p>
Middle	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -13.16 dBm Occ Bw 1.7310480 GHz D1[1] 2.682634731 MHz 0.59 dB D2 2.8920 MHz</p> <p>O1 13.250 dBm O2 -12.750 dBm</p> <p>CF 1.7325 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:27:57</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -12.02 dBm Occ Bw 1.7310600 GHz D1[1] 2.682634731 MHz 0.38 dB D2 2.8600 MHz</p> <p>O1 13.320 dBm O2 -12.680 dBm</p> <p>CF 1.7325 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:28:27</p>
Highest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -12.04 dBm Occ Bw 1.7520600 GHz D1[1] 2.682634731 MHz 0.34 dB D2 2.8800 MHz</p> <p>O1 14.600 dBm O2 -11.400 dBm</p> <p>CF 1.7535 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:28:57</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -13.79 dBm Occ Bw 1.7520600 GHz D1[1] 2.682634731 MHz 0.08 dB D2 2.8920 MHz</p> <p>O1 12.880 dBm O2 -12.120 dBm</p> <p>CF 1.7535 GHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:29:27</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

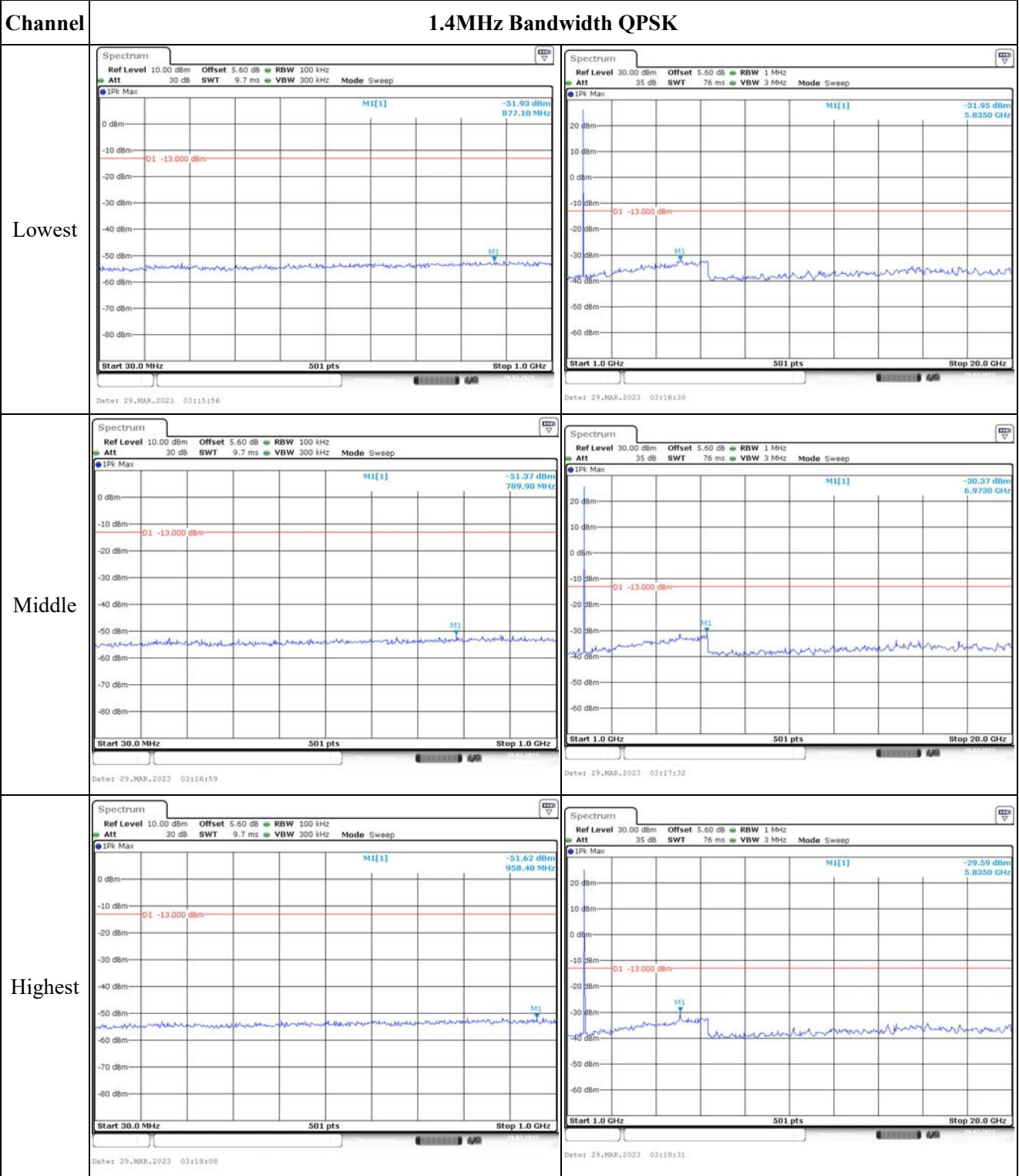
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		



Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -10.15 dBm Occ Bw 17.964071856 MHz D1[1] -0.50 dB D2 -9.950 dBm CF 1.72 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:42:02</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -10.49 dBm Occ Bw 19.7600 MHz D1[1] -0.18 dB D2 -10.130 dBm CF 1.72 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:42:29</p>
Middle	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -9.61 dBm Occ Bw 19.6800 MHz D1[1] -0.02 dB D2 -9.810 dBm CF 1.7325 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:42:57</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -9.27 dBm Occ Bw 19.6000 MHz D1[1] -0.80 dB D2 -10.230 dBm CF 1.7325 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:43:21</p>
Highest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -12.18 dBm Occ Bw 21.8400 MHz D1[1] -1.94 dB D2 -9.960 dBm CF 1.745 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:44:04</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -11.14 dBm Occ Bw 24.4000 MHz D1[1] -0.27 dB D2 -11.390 dBm CF 1.745 GHz 501 pts Span 40.0 MHz Date: 28_MAR_2023 23:44:35</p>

Spurious Emissions at Antenna Terminal

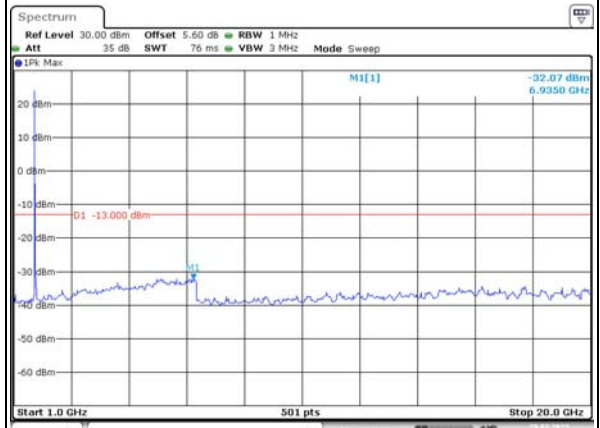
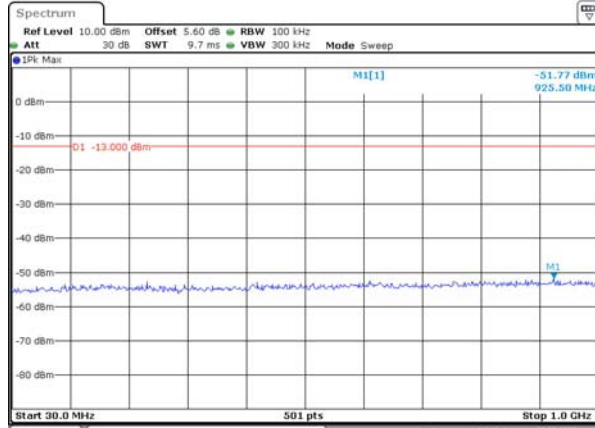


Spurious Emissions at Antenna Terminal

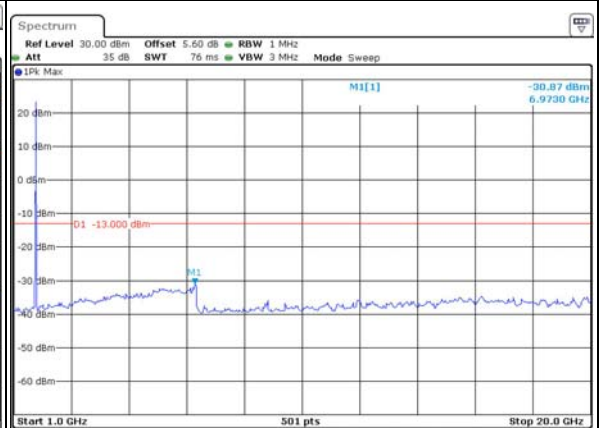
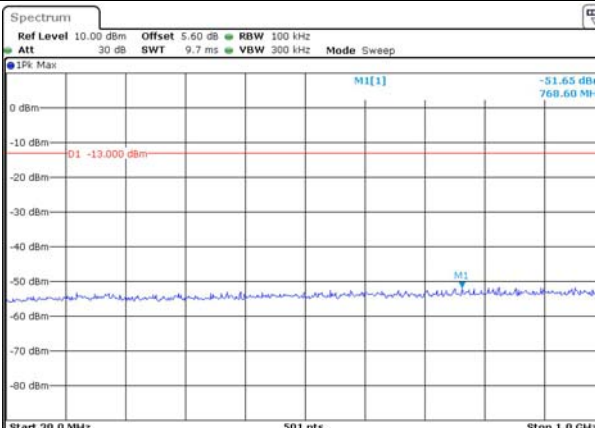
Channel

3MHz Bandwidth QPSK

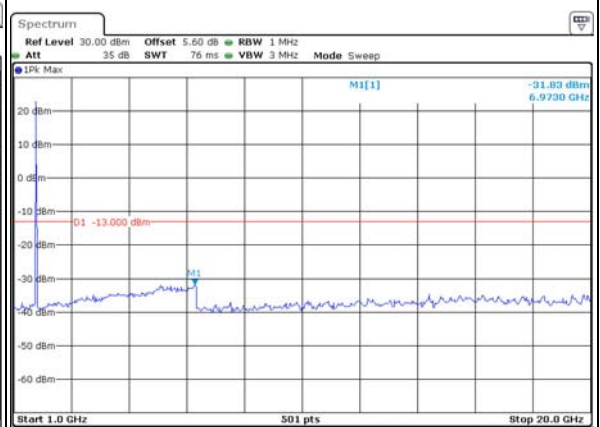
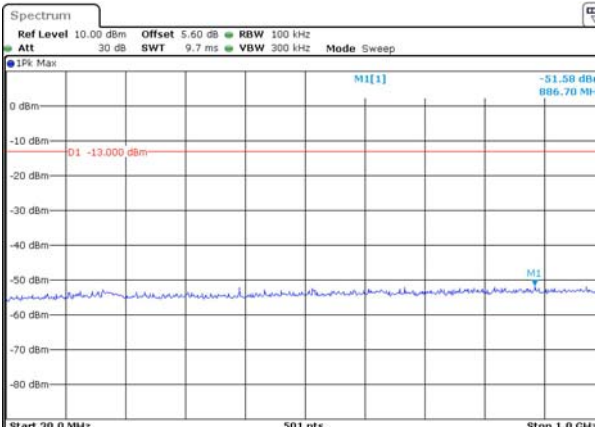
Lowest



Middle



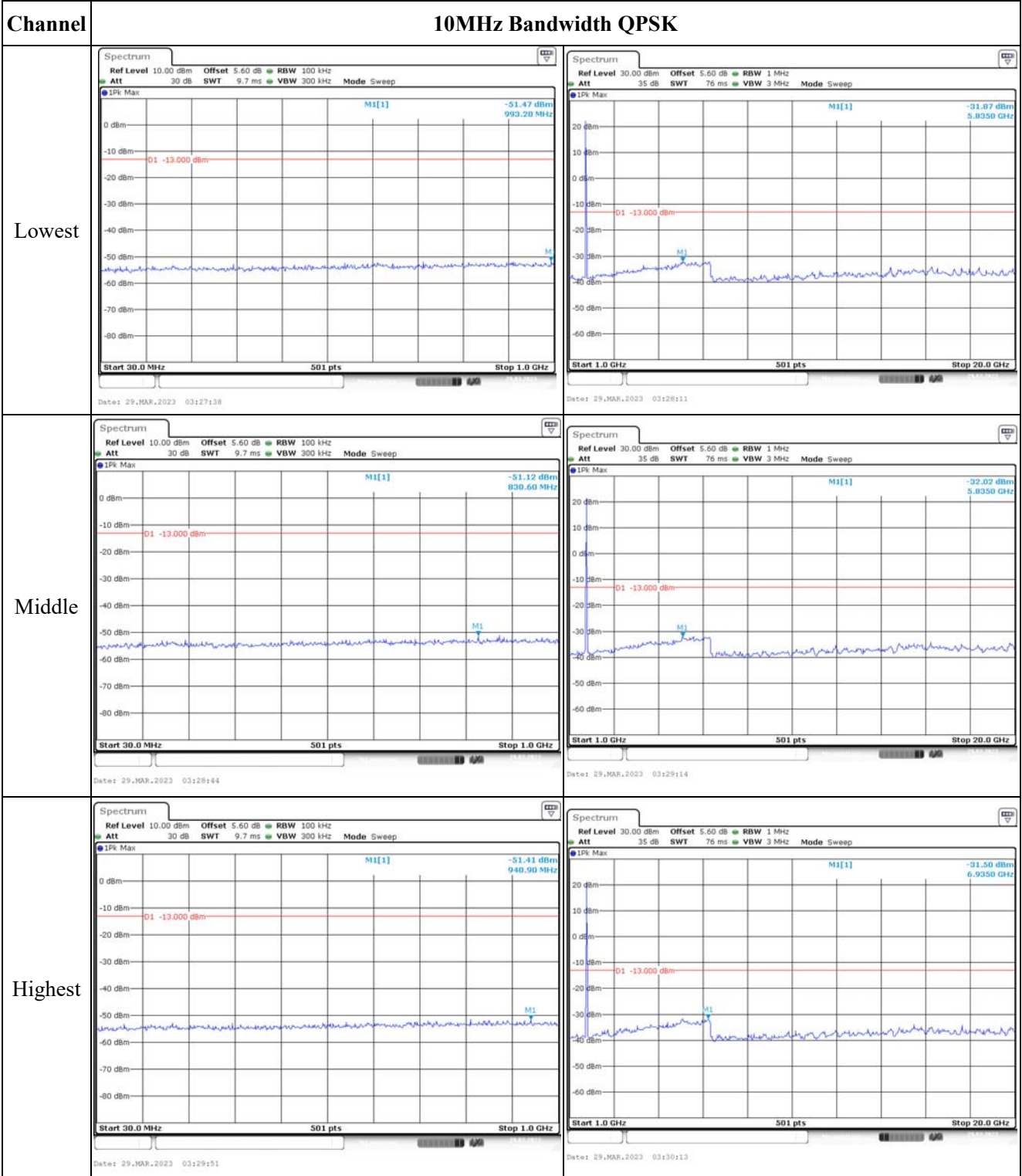
Highest



Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Spectrum                      Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz                      Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep                      1Pk Max                      M1[1] -51.25 dBm 834.50 MHz                      01 -13.000 dBm                      Start 30.0 MHz 501 pts Stop 1.0 GHz                      Date: 29_MAR_2023 03:23:42</p>	<p>Spectrum                      Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz                      Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep                      1Pk Max                      M1[1] -31.50 dBm 5.9490 GHz                      01 -13.000 dBm                      Start 1.0 GHz 501 pts Stop 20.0 GHz                      Date: 29_MAR_2023 03:24:12</p>
Middle	<p>Spectrum                      Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz                      Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep                      1Pk Max                      M1[1] -51.18 dBm 900.30 MHz                      01 -13.000 dBm                      Start 30.0 MHz 501 pts Stop 1.0 GHz                      Date: 29_MAR_2023 03:24:52</p>	<p>Spectrum                      Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz                      Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep                      1Pk Max                      M1[1] -31.95 dBm 6.8970 GHz                      01 -13.000 dBm                      Start 1.0 GHz 501 pts Stop 20.0 GHz                      Date: 29_MAR_2023 03:25:22</p>
Highest	<p>Spectrum                      Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz                      Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep                      1Pk Max                      M1[1] -51.68 dBm 859.60 MHz                      01 -13.000 dBm                      Start 30.0 MHz 501 pts Stop 1.0 GHz                      Date: 29_MAR_2023 03:25:55</p>	<p>Spectrum                      Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz                      Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep                      1Pk Max                      M1[1] -31.54 dBm 6.7830 GHz                      01 -13.000 dBm                      Start 1.0 GHz 501 pts Stop 20.0 GHz                      Date: 29_MAR_2023 03:26:24</p>

Spurious Emissions at Antenna Terminal

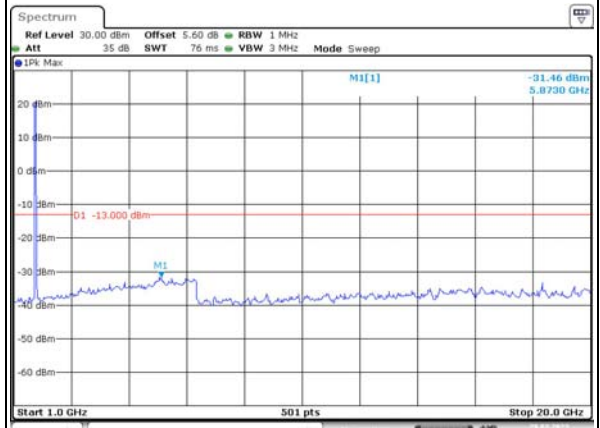
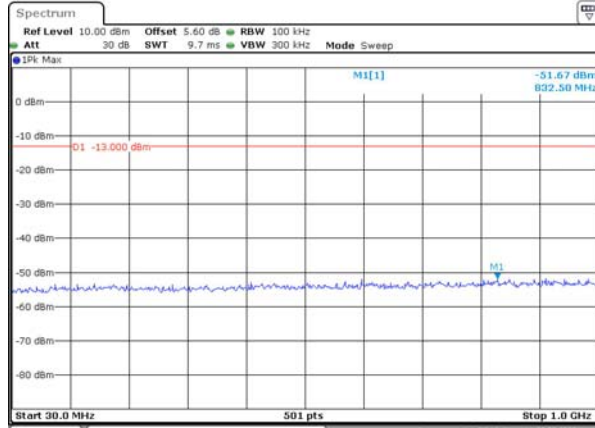


Spurious Emissions at Antenna Terminal

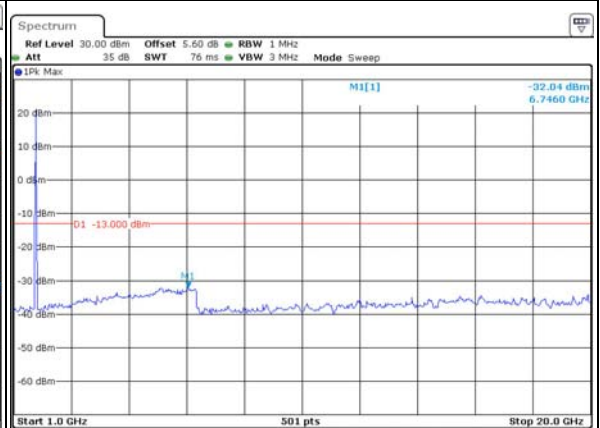
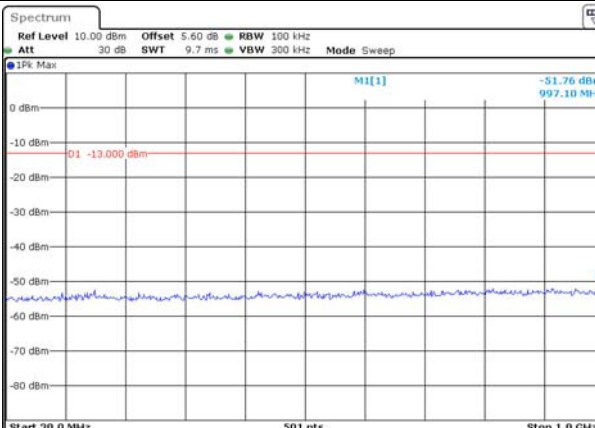
Channel

15MHz Bandwidth QPSK

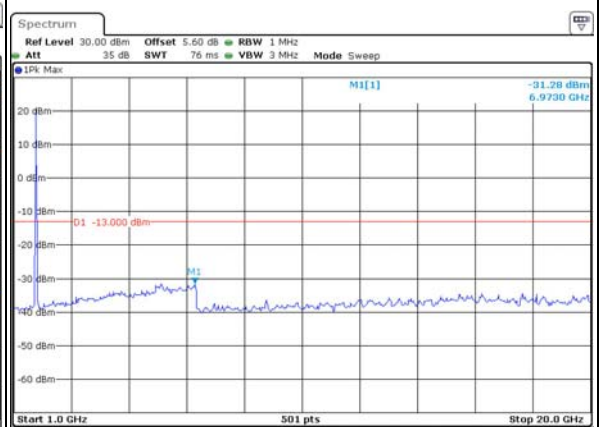
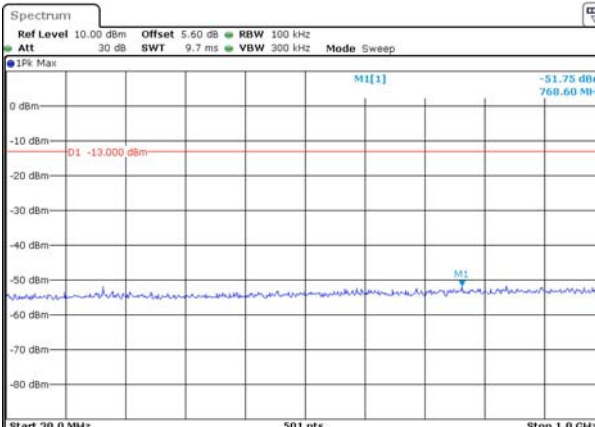
Lowest



Middle



Highest

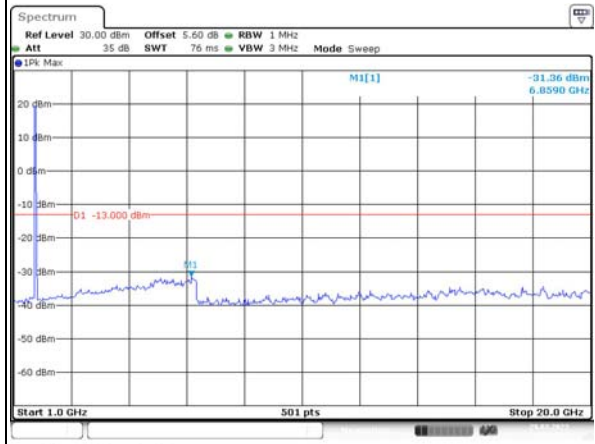
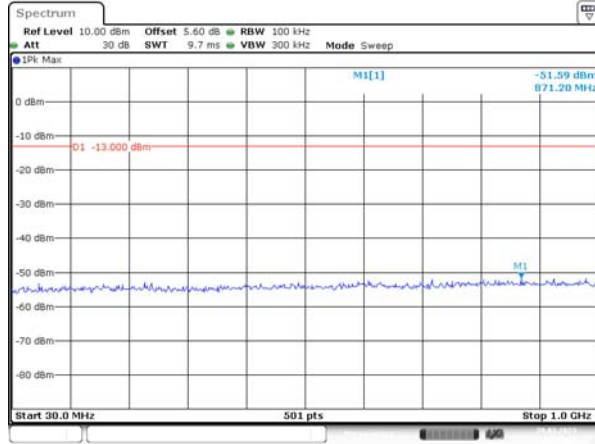


Spurious Emissions at Antenna Terminal

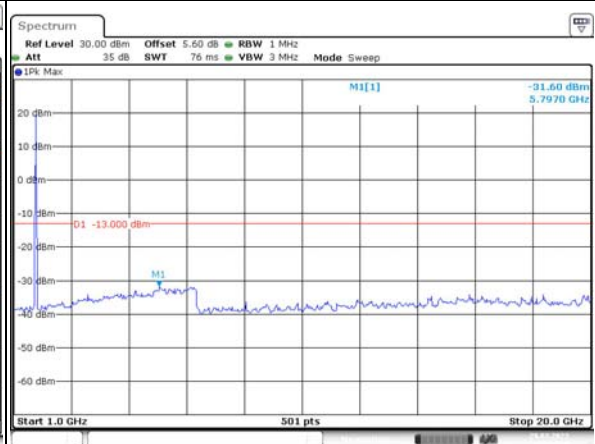
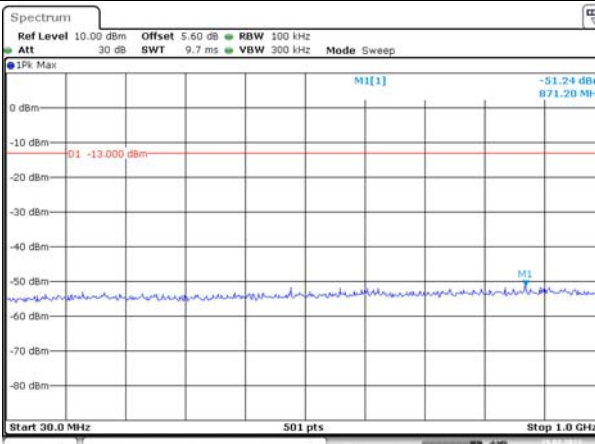
Channel

20MHz Bandwidth QPSK

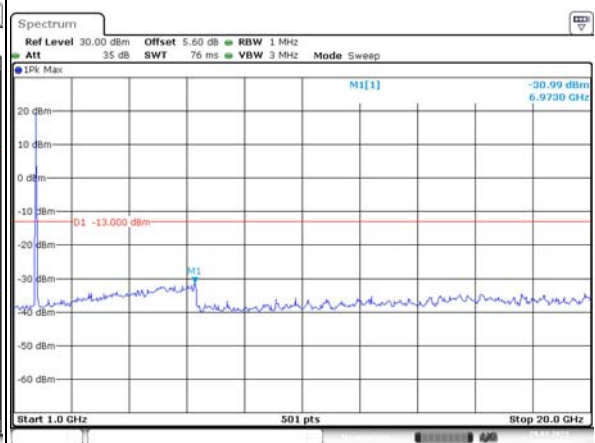
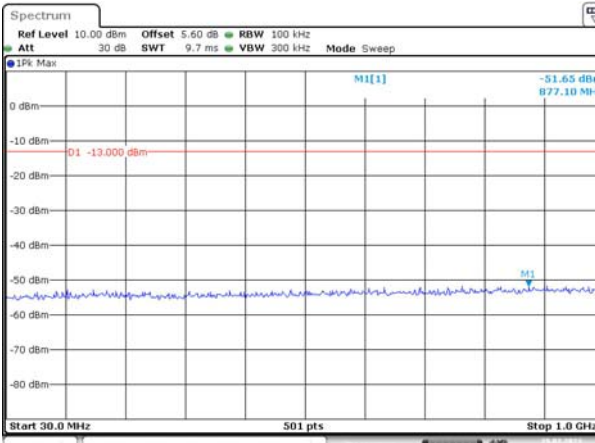
Lowest



Middle



Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		



Out of band emission, Band Edge

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

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -29.99 dBm 1.70999400 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 29.MAR.2023 01:49:32</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -29.50 dBm 1.75500600 GHz -13.000 dBm CF 1.755 GHz 501 pts Span 3.0 MHz Date: 29.MAR.2023 01:49:45</p>
16QAM 3MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -34.10 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 29.MAR.2023 01:50:24</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -35.14 dBm 1.7550000 GHz -13.000 dBm CF 1.755 GHz 501 pts Span 6.0 MHz Date: 29.MAR.2023 01:50:37</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -23.71 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 29.MAR.2023 01:51:39</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -24.95 dBm 1.7550000 GHz -13.000 dBm CF 1.755 GHz 501 pts Span 10.0 MHz Date: 29.MAR.2023 01:51:52</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

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

Serial Number:	23CF-1	Test Date:	2023/3/29~2023/4/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.3~25.6	Relative Humidity: (%)	26~45	ATM Pressure: (kPa)	100.3~101.4
----------------------	-----------	---------------------------	-------	------------------------	-------------

**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/3/31	2023/3/30
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	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).

**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>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	22.81	23.05	22.79	16.46	38.45
	RB1#3	22.99	23.2	22.87		
	RB1#5	22.85	23.03	22.7		
	RB3#0	22.87	23.08	22.76		
	RB3#3	22.86	23.07	22.73		
	RB6#0	21.9	22.09	21.79		
1.4MHz 16QAM	RB1#0	21.91	22.02	21.73	15.5	38.45
	RB1#3	22.1	22.17	21.85		
	RB1#5	21.94	21.98	21.62		
	RB3#0	21.86	22.16	21.92		
	RB3#3	21.92	22.24	21.79		
	RB6#0	20.93	20.99	20.76		
3MHz QPSK	RB1#0	22.85	23.06	22.82	16.35	38.45
	RB1#8	22.93	23.07	22.77		
	RB1#14	22.96	23.09	22.73		
	RB6#0	21.85	22.04	21.81		
	RB6#9	21.91	22.02	21.75		
	RB15#0	21.91	22.06	21.75		
3MHz 16QAM	RB1#0	21.94	22.06	22.3	15.56	38.45
	RB1#8	22.05	22.01	22.3		
	RB1#14	22.05	22.01	22.23		
	RB6#0	20.82	20.96	20.81		
	RB6#9	20.92	20.95	20.79		
	RB15#0	20.83	21.07	20.82		
5MHz QPSK	RB1#0	22.83	23	22.75	16.37	38.45
	RB1#13	23.08	23.11	22.86		
	RB1#24	22.92	22.99	22.69		
	RB15#0	21.94	22.08	21.84		
	RB15#10	22.01	22.09	21.77		
	RB25#0	21.98	22.08	21.82		
5MHz 16QAM	RB1#0	21.65	22.24	21.81	15.62	38.45
	RB1#13	21.87	22.36	21.91		
	RB1#24	21.84	22.23	21.67		
	RB15#0	20.96	21.02	20.81		
	RB15#10	21.02	21.02	20.81		
	RB25#0	21	21	20.84		
10MHz QPSK	RB1#0	22.87	23.02	22.95	16.44	38.45
	RB1#25	23.17	23.18	23		
	RB1#49	23.16	22.98	22.77		
	RB25#0	22	22.02	22.03		

	RB25#25	22.23	22.08	21.87		
	RB50#0	22.09	22.03	21.93		
10MHz 16QAM	RB1#0	21.82	22.55	21.94	15.91	38.45
	RB1#25	22.13	22.65	22.1		
	RB1#49	22.06	22.49	21.69		
	RB25#0	21.02	21.01	20.91		
	RB25#25	21.22	21.12	20.9		
	RB50#0	21.09	21.03	20.9		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**Result:****Pass****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	5.57	5.01	5.25	13
	RB50#0	5.39	5.1	5.28	13
10MHz 16QAM	RB1#0	6.52	5.62	5.94	13
	RB50#0	6.23	6.03	6.12	13
<b>Result:</b>					<b>Pass</b>

**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	1.102	1.096	1.102	1.296	1.302	1.314
1.4MHz 16QAM	1.102	1.096	1.09	1.296	1.326	1.29
3MHz QPSK	2.683	2.683	2.695	2.892	2.88	2.868
3MHz 16QAM	2.683	2.683	2.683	2.88	2.892	2.88
5MHz QPSK	4.531	4.531	4.531	5.2	5.78	5.18
5MHz 16QAM	4.551	4.551	4.511	5.22	5.24	5.18
10MHz QPSK	8.982	8.942	8.982	9.84	9.92	10
10MHz 16QAM	8.982	8.942	8.942	10.04	9.88	9.76

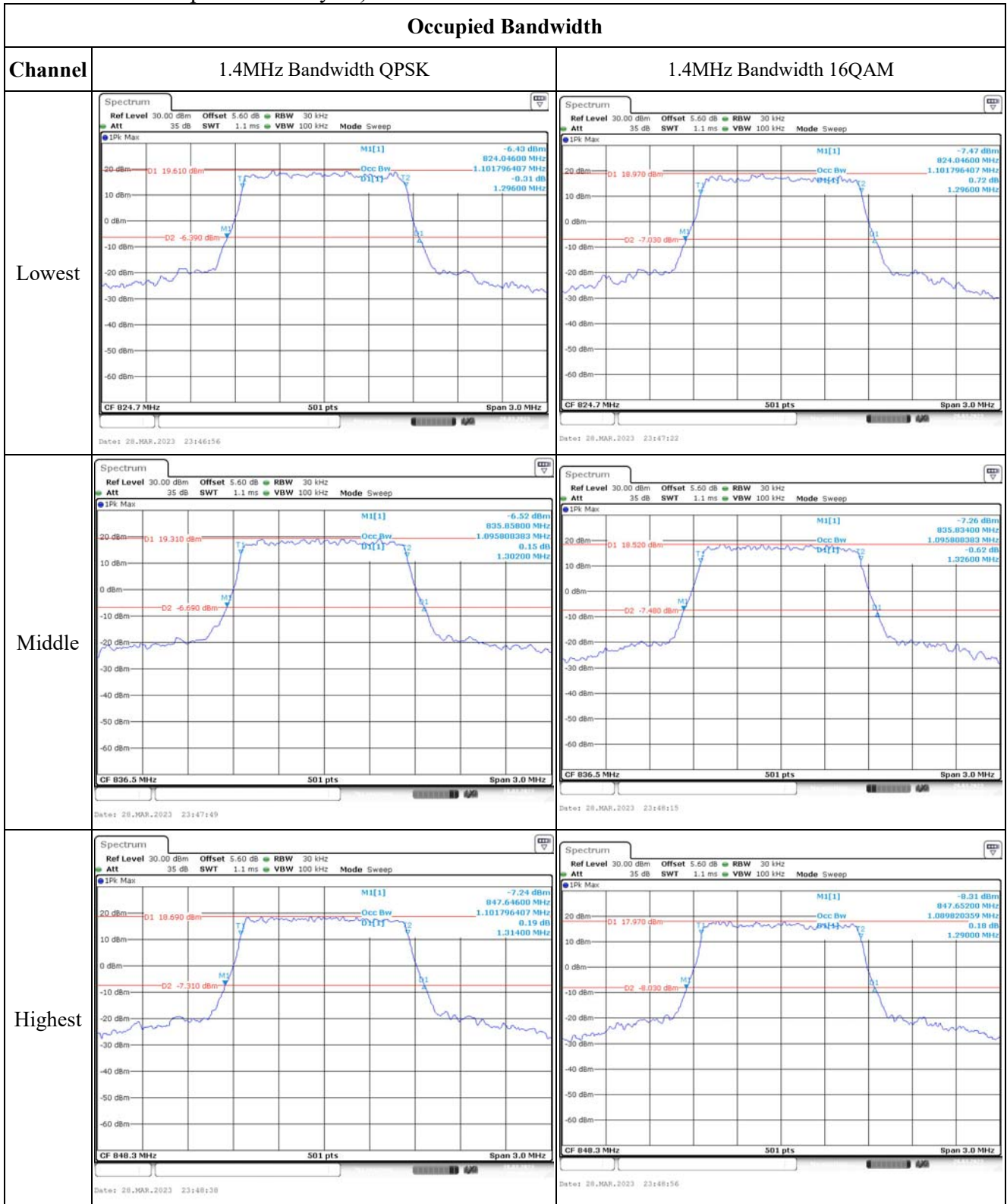
Note: The test plots please refer to the Plots of Occupied Bandwidth

**Spurious Emissions at Antenna Terminal****Result:** Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**Out of band emission, Band Edge****Result:** Pass, Please refer to the test plots of Out of band emission, Band Edge.

<b>Frequency Stability</b>					
Test Modulation:	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	3.8	25	0.030	2.5
	-20	3.8	35	0.042	2.5
	-10	3.8	26	0.031	2.5
	0	3.8	8	0.010	2.5
	10	3.8	56	0.067	2.5
	20	3.8	13	0.016	2.5
	30	3.8	22	0.026	2.5
	40	3.8	34	0.041	2.5
	50	3.8	25	0.030	2.5
Frequency Stability vs. Voltage	20	3.6	26	0.031	2.5
	20	4.35	22	0.026	2.5
				<b>Result:</b>	<b>Pass</b>

Test Modulation:	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	3.8	15	0.018	2.5
	-20	3.8	19	0.023	2.5
	-10	3.8	37	0.044	2.5
	0	3.8	56	0.067	2.5
	10	3.8	15	0.018	2.5
	20	3.8	18	0.022	2.5
	30	3.8	20	0.024	2.5
	40	3.8	26	0.031	2.5
	50	3.8	28	0.033	2.5
Frequency Stability vs. Voltage	20	3.6	47	0.056	2.5
	20	4.35	31	0.037	2.5
				<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 5.6 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):





Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -10.17 dBm Occ Bw 2.8920 MHz D1[1] 15.500 dBm</p> <p>CF 825.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:51:31</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -10.12 dBm Occ Bw 2.8800 MHz D1[1] 15.600 dBm</p> <p>CF 825.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:51:57</p>
Middle	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -9.97 dBm Occ Bw 2.8800 MHz D1[1] 17.410 dBm</p> <p>CF 836.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:52:20</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -10.50 dBm Occ Bw 2.8920 MHz D1[1] 15.670 dBm</p> <p>CF 836.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:52:46</p>
Highest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -10.28 dBm Occ Bw 2.8600 MHz D1[1] 16.430 dBm</p> <p>CF 847.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:53:13</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -11.40 dBm Occ Bw 2.8800 MHz D1[1] 14.860 dBm</p> <p>CF 847.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 28.MAR.2023 23:53:39</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -7.68 dBm 823.9000 MHz Occ Bw 4.530993124 MHz 0.49 dB 5.2000 MHz D1[1] 18.420 dBm D2 -7.580 dBm CF 826.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:56:11</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -8.09 dBm 823.9000 MHz Occ Bw 4.550896204 MHz -0.07 dB 5.2200 MHz D1 17.660 dBm D2 -8.140 dBm CF 826.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:56:41</p>
Middle	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -5.24 dBm 833.7600 MHz Occ Bw 4.530938124 MHz -0.39 dB 5.7800 MHz D1 19.430 dBm D2 -6.370 dBm CF 836.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:57:12</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -8.59 dBm 833.8800 MHz Occ Bw 4.550898204 MHz -0.30 dB 5.2400 MHz D1 17.520 dBm D2 -8.480 dBm CF 836.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:57:45</p>
Highest	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -7.43 dBm 843.9200 MHz Occ Bw 4.530938124 MHz 0.59 dB 5.1800 MHz D1 19.810 dBm D2 -7.190 dBm CF 846.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:58:20</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -8.50 dBm 843.9000 MHz Occ Bw 4.510878044 MHz 0.33 dB 5.1800 MHz D1 17.930 dBm D2 -8.070 dBm CF 846.5 MHz 501 pts Span 10.0 MHz Date: 28.MAR.2023 23:58:50</p>

Occupied Bandwidth

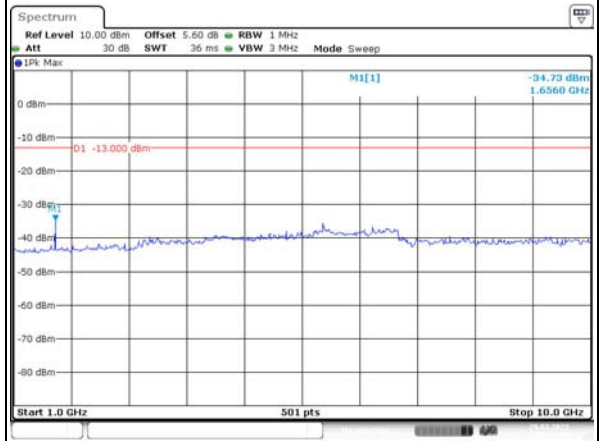
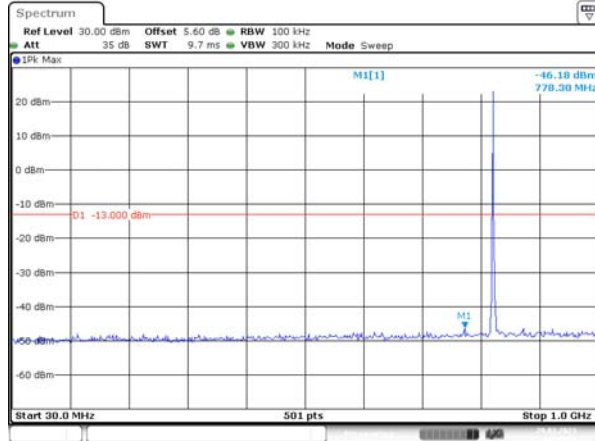
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

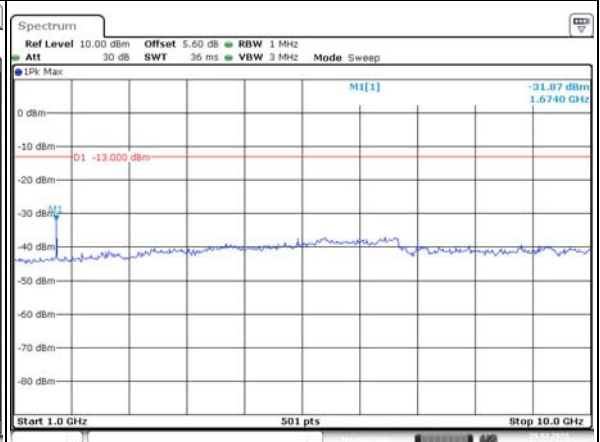
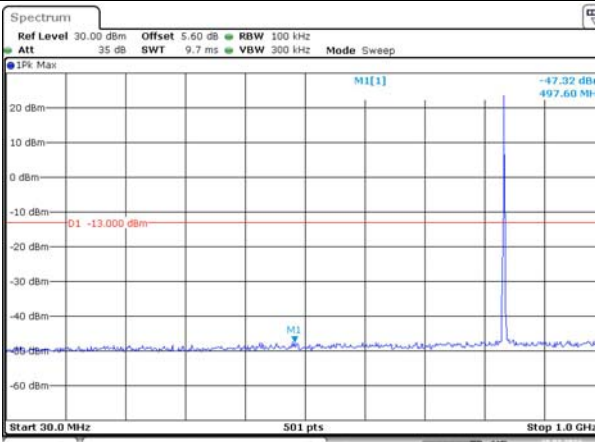
Channel

1.4MHz Bandwidth QPSK

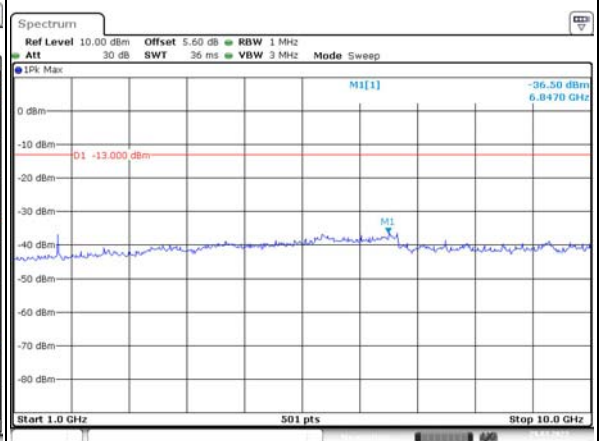
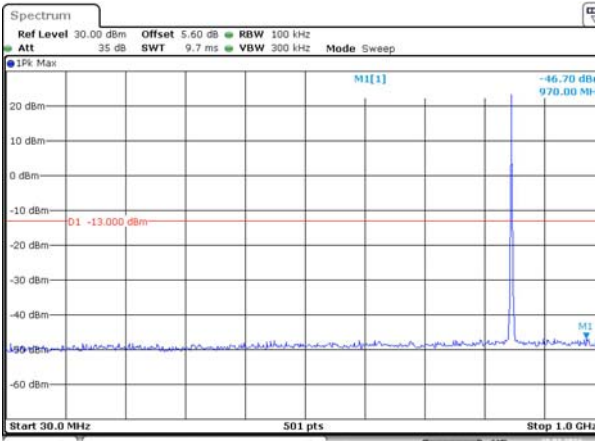
Lowest



Middle



Highest

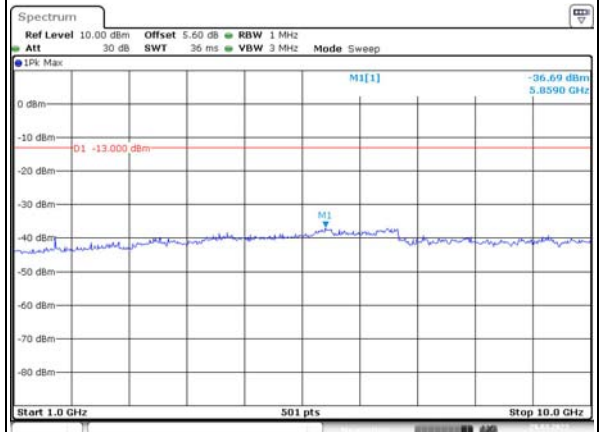
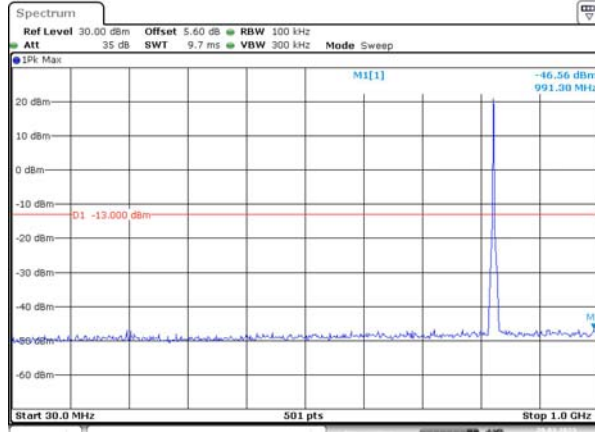


Spurious Emissions at Antenna Terminal

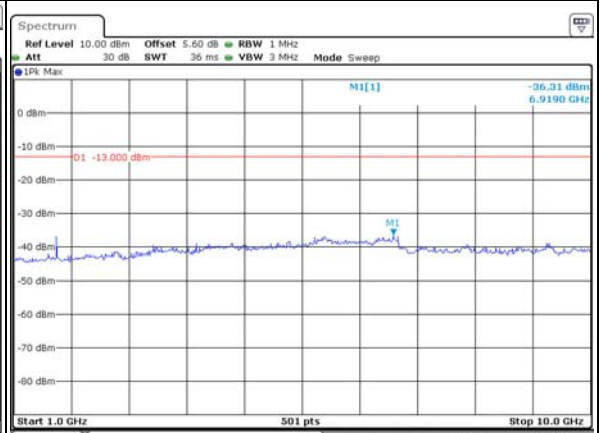
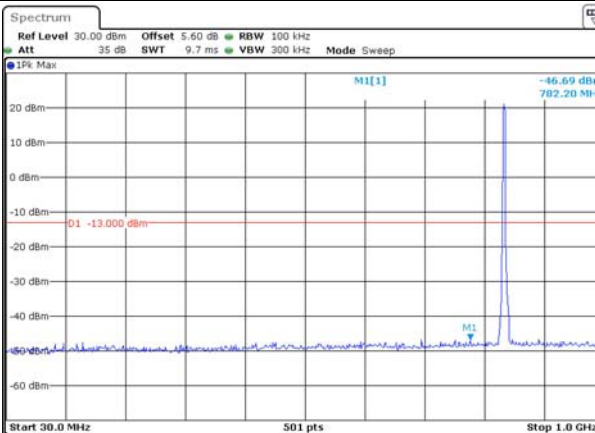
Channel

3MHz Bandwidth QPSK

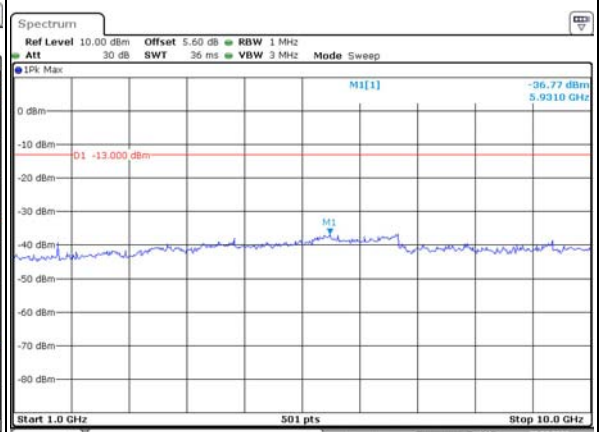
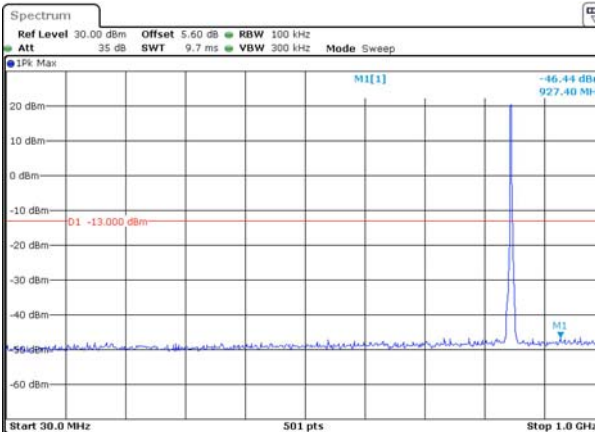
Lowest



Middle



Highest

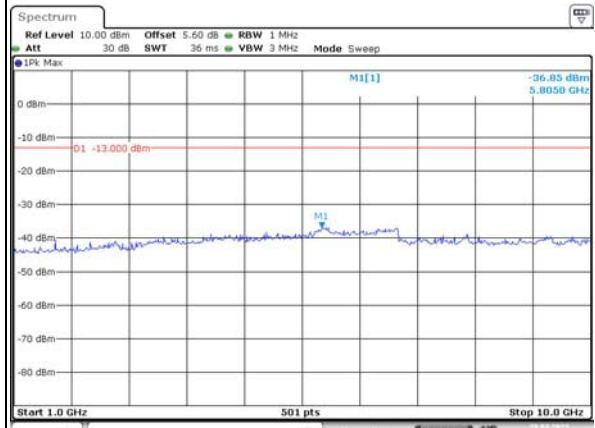
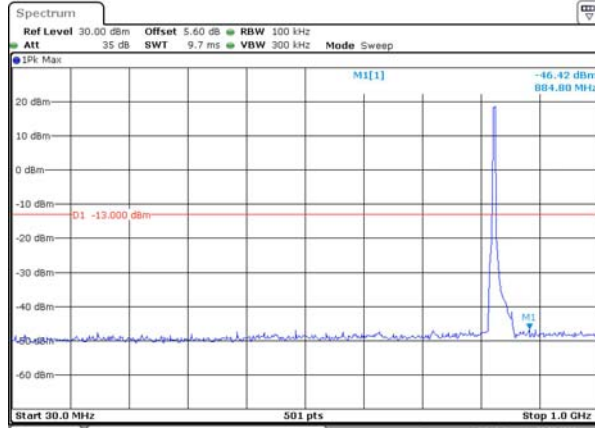


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

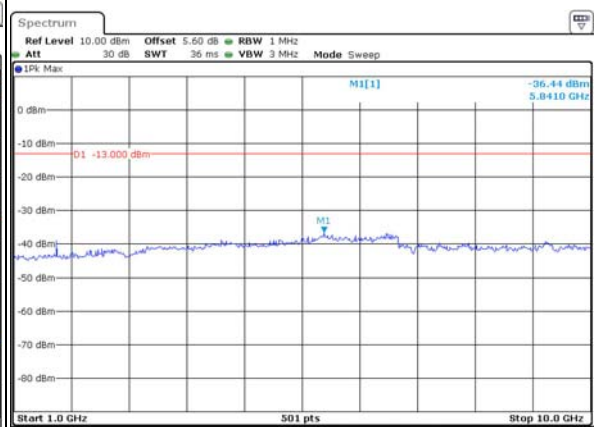
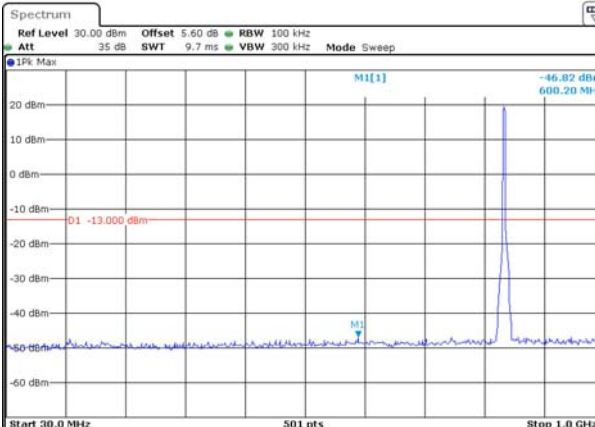
Lowest



Date: 29\_MAR\_2023 03:48:28

Date: 29\_MAR\_2023 03:49:02

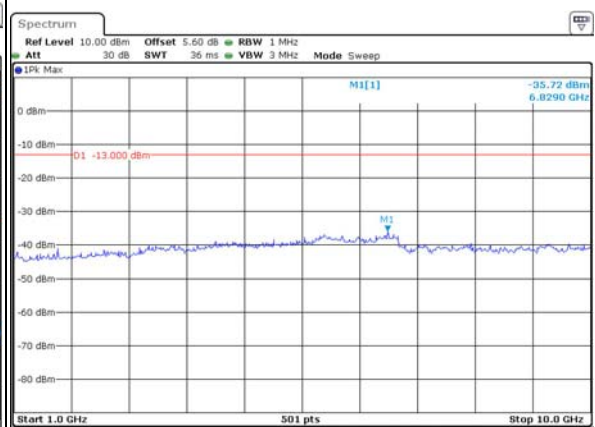
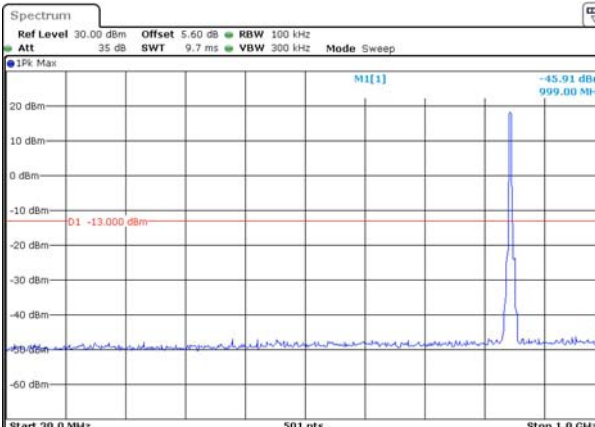
Middle



Date: 29\_MAR\_2023 03:49:35

Date: 29\_MAR\_2023 03:50:04

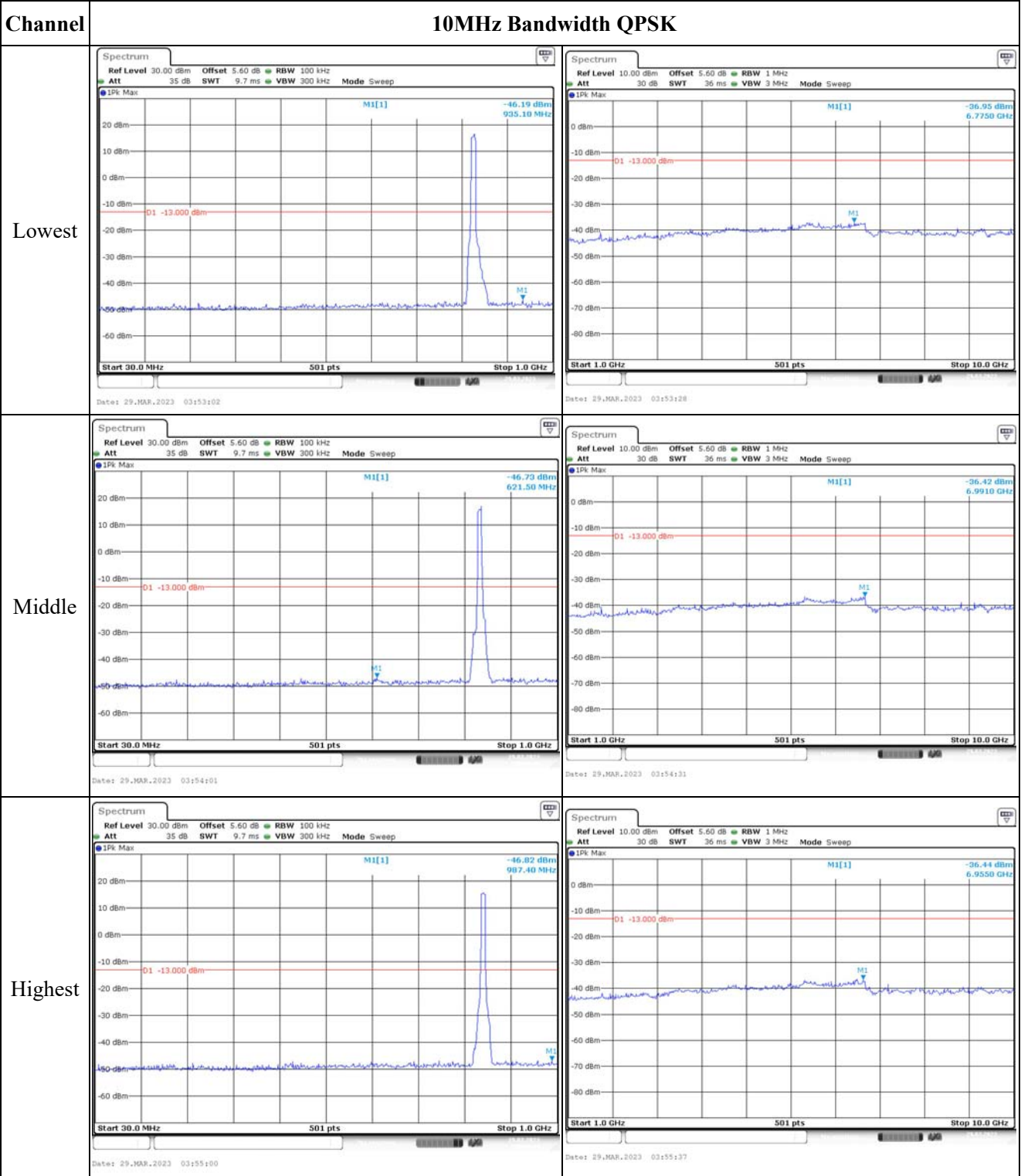
Highest



Date: 29\_MAR\_2023 03:50:52

Date: 29\_MAR\_2023 03:51:22

Spurious Emissions at Antenna Terminal

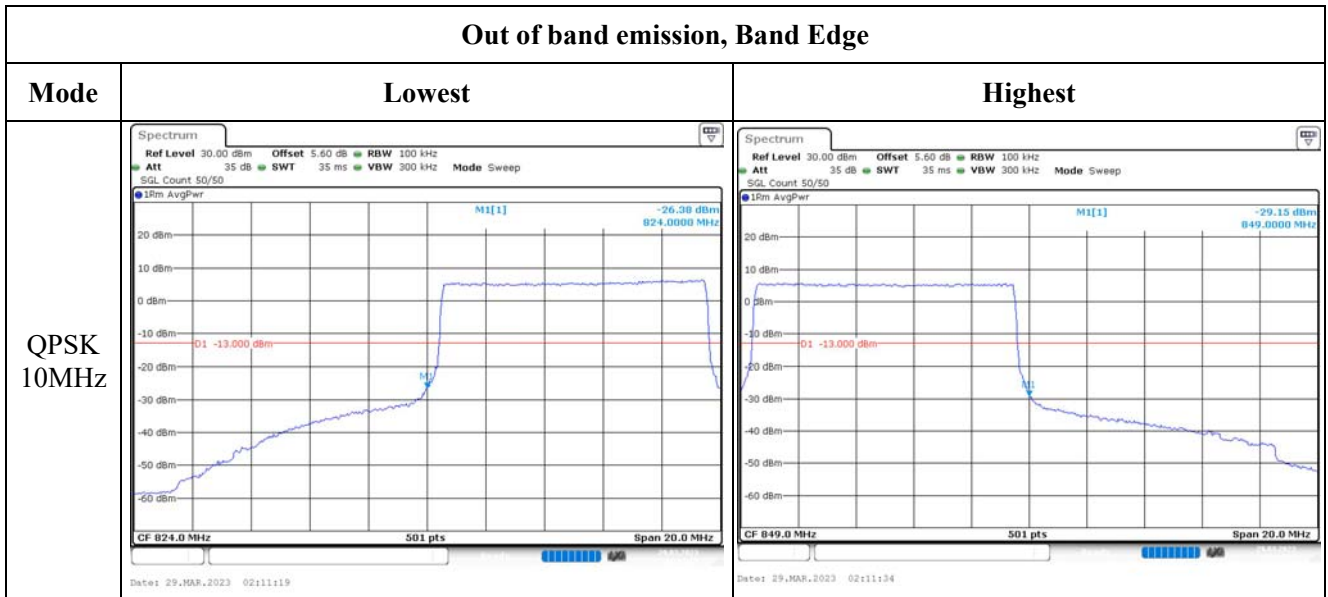


Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		



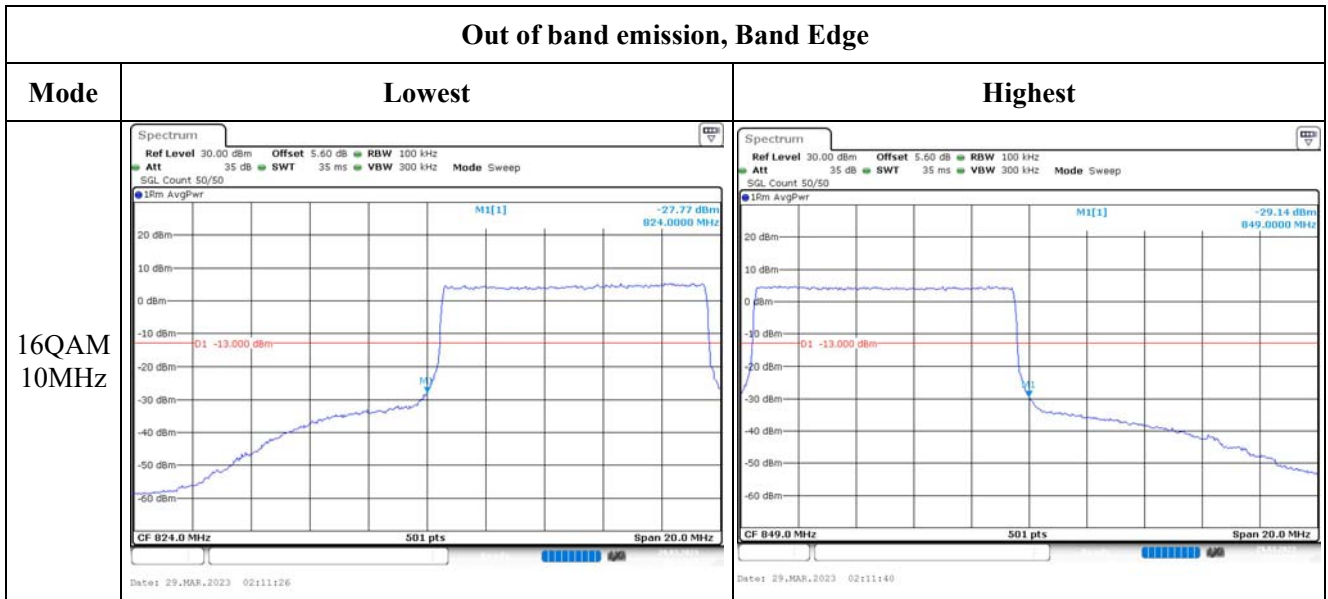
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge



**4.9 Antenna Port Test Data and Results for LTE Band 12**

Serial Number:	23CF-1	Test Date:	2023/3/29~2023/4/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.3~25.6	Relative Humidity: (%)	26~45	ATM Pressure: (kPa)	100.3~101.4
----------------------	-----------	---------------------------	-------	------------------------	-------------

**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/3/31	2023/3/30
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	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).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	699.7	707.5	715.3
3MHz	700.5	707.5	714.5
5MHz	701.5	707.5	713.5
10MHz	704	707.5	711

**Test Data:**

<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	21.73	21.8	21.46	17.95	34.77
	RB1#3	21.86	21.96	21.58		
	RB1#5	21.76	21.81	21.55		
	RB3#0	21.87	21.81	21.46		
	RB3#3	21.83	21.84	21.48		
	RB6#0	20.8	20.6	21.03		
1.4MHz 16QAM	RB1#0	20.78	20.5	20.39	16.94	34.77
	RB1#3	20.95	20.51	20.63		
	RB1#5	20.81	20.52	20.47		
	RB3#0	20.72	20.43	20.75		
	RB3#3	20.75	20.46	20.94		
	RB6#0	19.8	19.35	19.96		
3MHz QPSK	RB1#0	21.88	21.83	21.95	18.02	34.77
	RB1#8	21.85	21.8	21.98		
	RB1#14	21.87	21.79	22.03		
	RB6#0	20.81	20.81	20.97		
	RB6#9	20.83	20.83	20.96		
	RB15#0	20.8	20.85	20.94		
3MHz 16QAM	RB1#0	20.79	21.37	21.02	17.36	34.77
	RB1#8	20.78	21.36	21.05		
	RB1#14	20.81	21.37	21.12		
	RB6#0	19.75	19.8	19.91		
	RB6#9	19.72	19.89	19.97		
	RB15#0	19.79	19.87	19.86		
5MHz QPSK	RB1#0	21.78	21.78	21.81	17.98	34.77
	RB1#13	21.89	21.89	21.99		
	RB1#24	21.78	21.82	21.95		
	RB15#0	20.86	20.84	20.89		
	RB15#10	20.78	20.92	20.91		
	RB25#0	20.82	20.88	20.86		
5MHz 16QAM	RB1#0	20.57	21.01	20.84	17.18	34.77
	RB1#13	20.72	21.19	20.98		
	RB1#24	20.65	21.11	20.98		
	RB15#0	19.84	19.78	19.88		
	RB15#10	19.72	19.86	19.92		
	RB25#0	19.81	19.84	19.85		
10MHz QPSK	RB1#0	21.78	21.74	21.74	18.02	34.77
	RB1#25	21.98	21.98	22.01		
	RB1#49	21.98	21.98	22.03		
	RB25#0	20.97	20.96	20.77		

	RB25#25	20.91	21.08	20.99		
	RB50#0	20.89	21.02	20.97		
10MHz 16QAM	RB1#0	20.86	20.73	21.33	16.41	34.77
	RB1#25	21.07	20.96	21.56		
	RB1#49	21.08	20.91	21.49		
	RB25#0	19.91	19.99	19.79		
	RB25#25	19.85	20.14	20.05		
	RB50#0	19.85	20.02	19.94		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**Result:****Pass****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	4.72	4.58	5.36	13
	RB50#0	5.16	5.28	5.13	13
10MHz 16QAM	RB1#0	5.68	5.28	6.23	13
	RB50#0	6.03	6.12	5.97	13
				<b>Result:</b>	<b>Pass</b>

**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	1.096	1.308	1.29	1.314
1.4MHz 16QAM	1.09	1.102	1.102	1.29	1.29	1.32
3MHz QPSK	2.683	2.683	2.683	2.892	2.88	2.88
3MHz 16QAM	2.683	2.683	2.683	2.88	2.892	2.88
5MHz QPSK	4.511	4.531	4.531	5.18	5.18	5.2
5MHz 16QAM	4.511	4.531	4.511	5.16	5.24	5.14
10MHz QPSK	8.982	8.982	8.982	9.96	9.92	9.88
10MHz 16QAM	8.942	8.982	8.982	9.84	9.96	9.92

Note: The test plots please refer to the Plots of Occupied Bandwidth

**Spurious Emissions at Antenna Terminal****Result:** Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**Out of band emission, Band Edge****Result:** Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	699.500	699.00	715.491	716.00
	-20	3.8	699.496	699.00	715.486	716.00
	-10	3.8	699.492	699.00	715.510	716.00
	0	3.8	699.489	699.00	715.491	716.00
	10	3.8	699.501	699.00	715.508	716.00
	20	3.8	699.514	699.00	715.486	716.00
	30	3.8	699.495	699.00	715.508	716.00
	40	3.8	699.503	699.00	715.487	716.00
	50	3.8	699.505	699.00	715.501	716.00
Frequency Stability vs. Voltage	20	3.6	699.485	699.00	715.504	716.00
	20	4.35	699.507	699.00	715.514	716.00
					<b>Result:</b>	<b>Pass</b>

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	699.493	699.00	715.490	716.00
	-20	3.8	699.507	699.00	715.503	716.00
	-10	3.8	699.499	699.00	715.500	716.00
	0	3.8	699.486	699.00	715.497	716.00
	10	3.8	699.493	699.00	715.493	716.00
	20	3.8	699.514	699.00	715.486	716.00
	30	3.8	699.489	699.00	715.488	716.00
	40	3.8	699.489	699.00	715.503	716.00
	50	3.8	699.495	699.00	715.500	716.00
Frequency Stability vs. Voltage	20	3.6	699.510	699.00	715.491	716.00
	20	4.35	699.491	699.00	715.506	716.00
					<b>Result:</b>	<b>Pass</b>