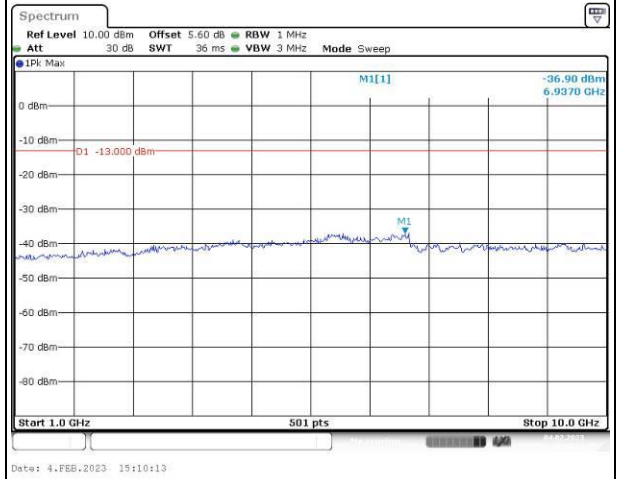
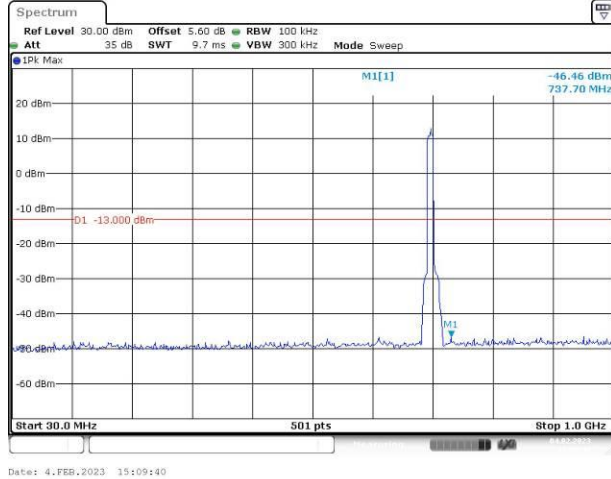


Spurious Emissions at Antenna Terminal

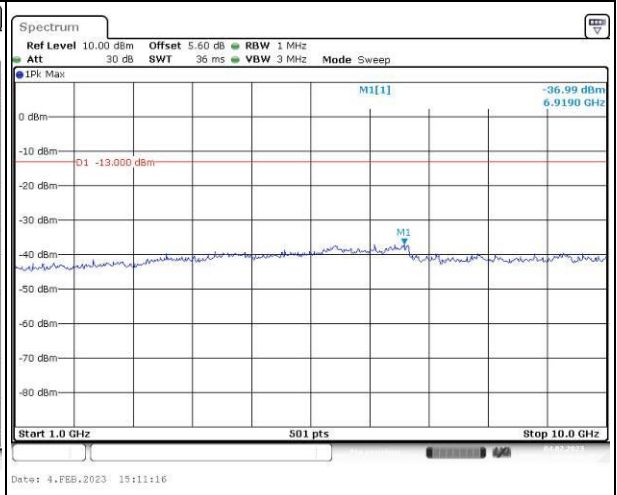
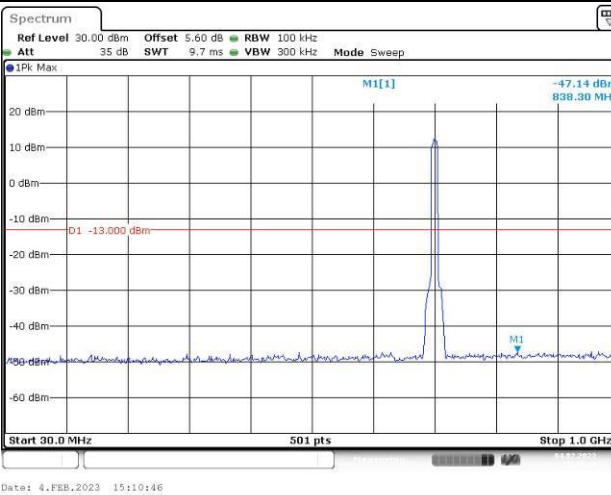
Channel

10MHz Bandwidth QPSK

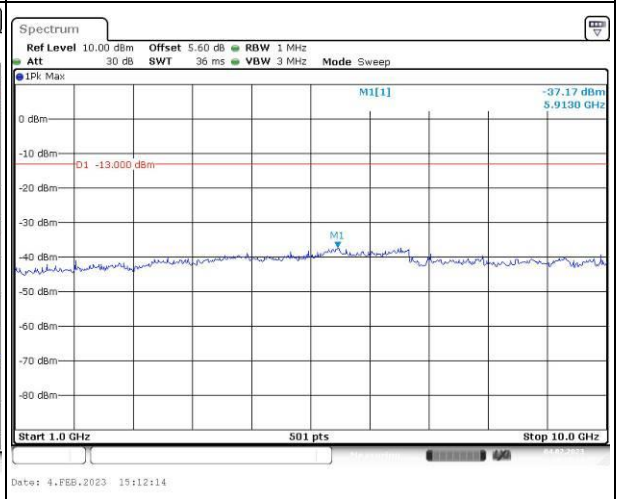
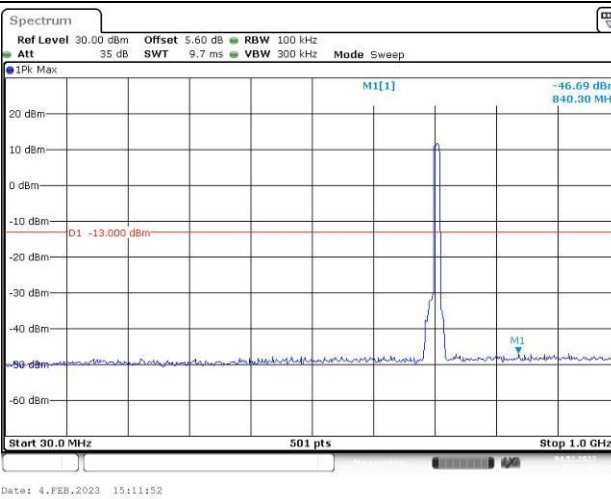
Lowest



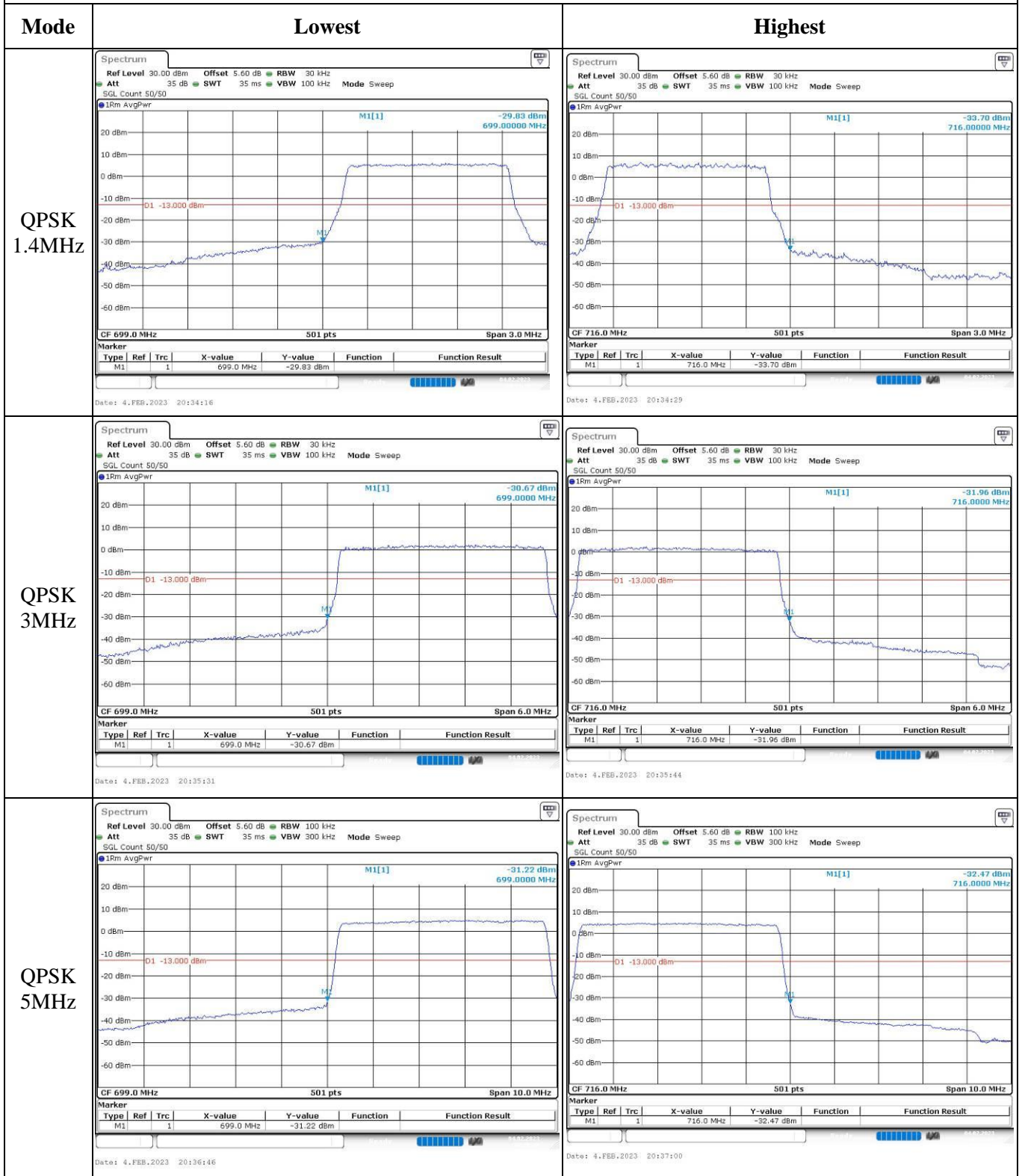
Middle



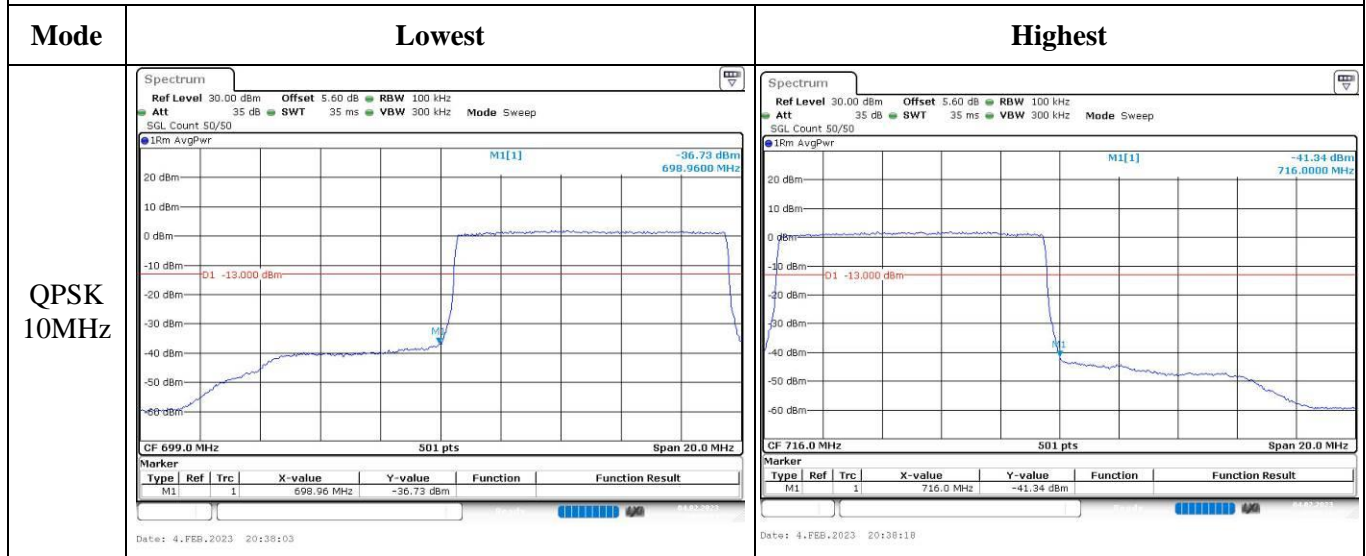
Highest



Out of band emission, Band Edge



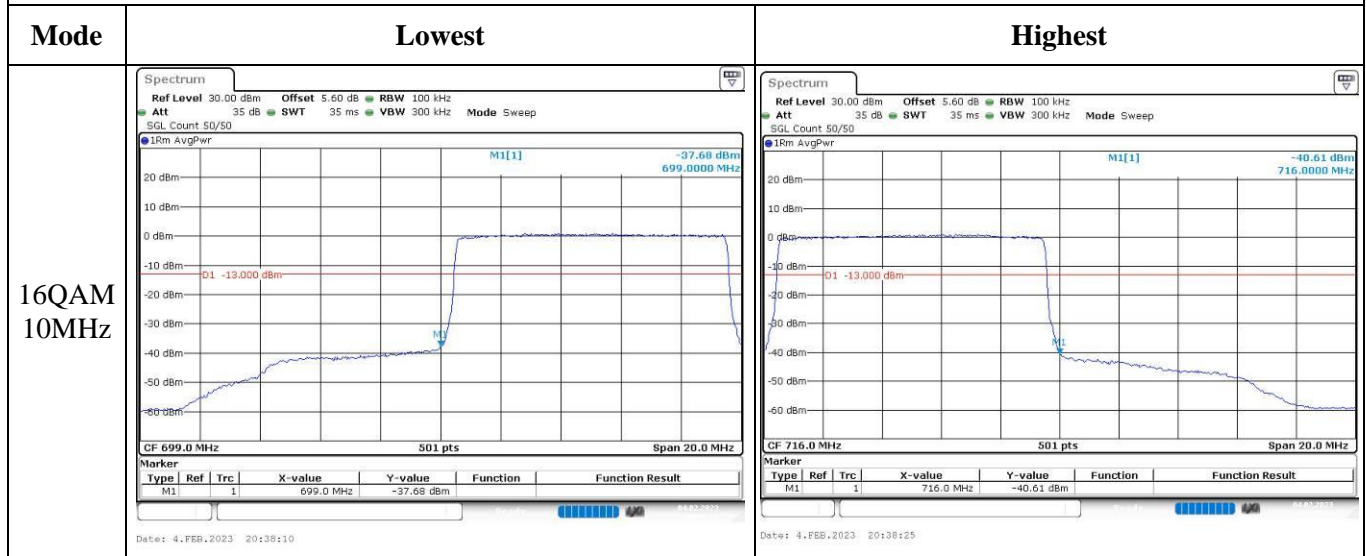
Out of band emission, Band Edge



Out of band emission, Band Edge

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

Out of band emission, Band Edge



4.11 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	1ZLT	Test Date:	2023/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/07/15	2023/07/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/04/06	2023/04/05
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/09/29	2023/09/28
UNI-T	Multimeter	UT39A+	C210582554	2022/07/15	2023/07/14
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)
5MHz	706.5	710	713.5
10MHz	709	710	711

Test Data:**FCC §2.1046; § 27.50(c) (10)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.24	23.18	23.19	15.25	34.77
	RB1#13	23.37	23.37	23.42		
	RB1#24	23.33	23.28	23.31		
	RB15#0	22.25	22.2	22.3		
	RB15#10	22.31	22.3	22.26		
	RB25#0	22.32	22.2	22.22		
5MHz 16QAM	RB1#0	22.52	22.33	22.06	14.59	34.77
	RB1#13	22.76	22.43	22.24		
	RB1#24	22.59	22.33	22.19		
	RB15#0	21.27	21.3	21.37		
	RB15#10	21.34	21.36	21.3		
	RB25#0	21.37	21.3	21.35		
10MHz QPSK	RB1#0	23.26	23.24	23.26	15.24	34.77
	RB1#25	23.39	23.33	23.38		
	RB1#49	23.41	23.39	23.41		
	RB25#0	22.19	22.09	22.1		
	RB25#25	22.32	22.27	22.26		
	RB50#0	22.27	22.23	22.2		
10MHz 16QAM	RB1#0	22.24	22.86	22.46	14.82	34.77
	RB1#25	22.39	22.99	22.5		
	RB1#49	22.33	22.88	22.51		
	RB25#0	21.28	21.21	21.22		
	RB25#25	21.5	21.38	21.34		
	RB50#0	21.34	21.28	21.19		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(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	5.62	5.83	5.8	13
	RB50#0	5.62	5.57	5.42	13
10MHz 16QAM	RB1#0	6.35	6.7	6.72	13
	RB50#0	6.61	6.49	6.41	13
Result:					Pass

FCC §2.1049, §27.53: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
5MHz QPSK	4.511	4.491	4.511	4.94	4.9	4.92
5MHz 16QAM	4.531	4.531	4.511	4.94	4.94	4.92
10MHz QPSK	8.942	8.902	8.942	9.64	9.6	9.6
10MHz 16QAM	8.942	8.942	8.942	9.56	9.64	9.64

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

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

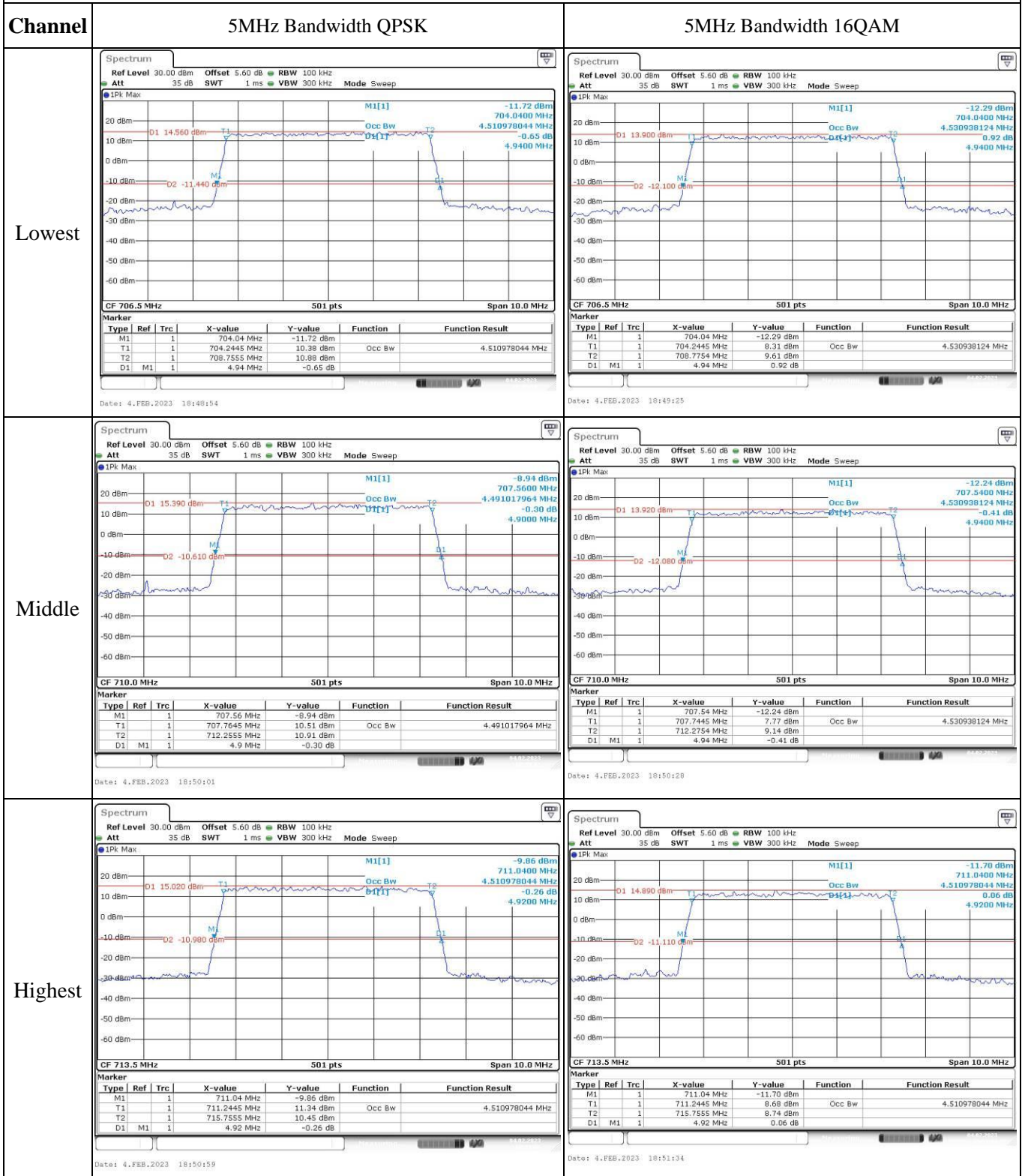
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.89	704.520	704.00	715.433	716.00
	-20	3.89	704.588	704.00	715.457	716.00
	-10	3.89	704.596	704.00	715.417	716.00
	0	3.89	704.509	704.00	715.456	716.00
	10	3.89	704.532	704.00	715.442	716.00
	20	3.89	704.529	704.00	715.471	716.00
	30	3.89	704.599	704.00	715.445	716.00
	40	3.89	704.507	704.00	715.407	716.00
Frequency Stability vs. Voltage	20	3.45	704.590	704.00	715.446	716.00
	20	4.48	704.585	704.00	715.438	716.00
					Result:	Pass

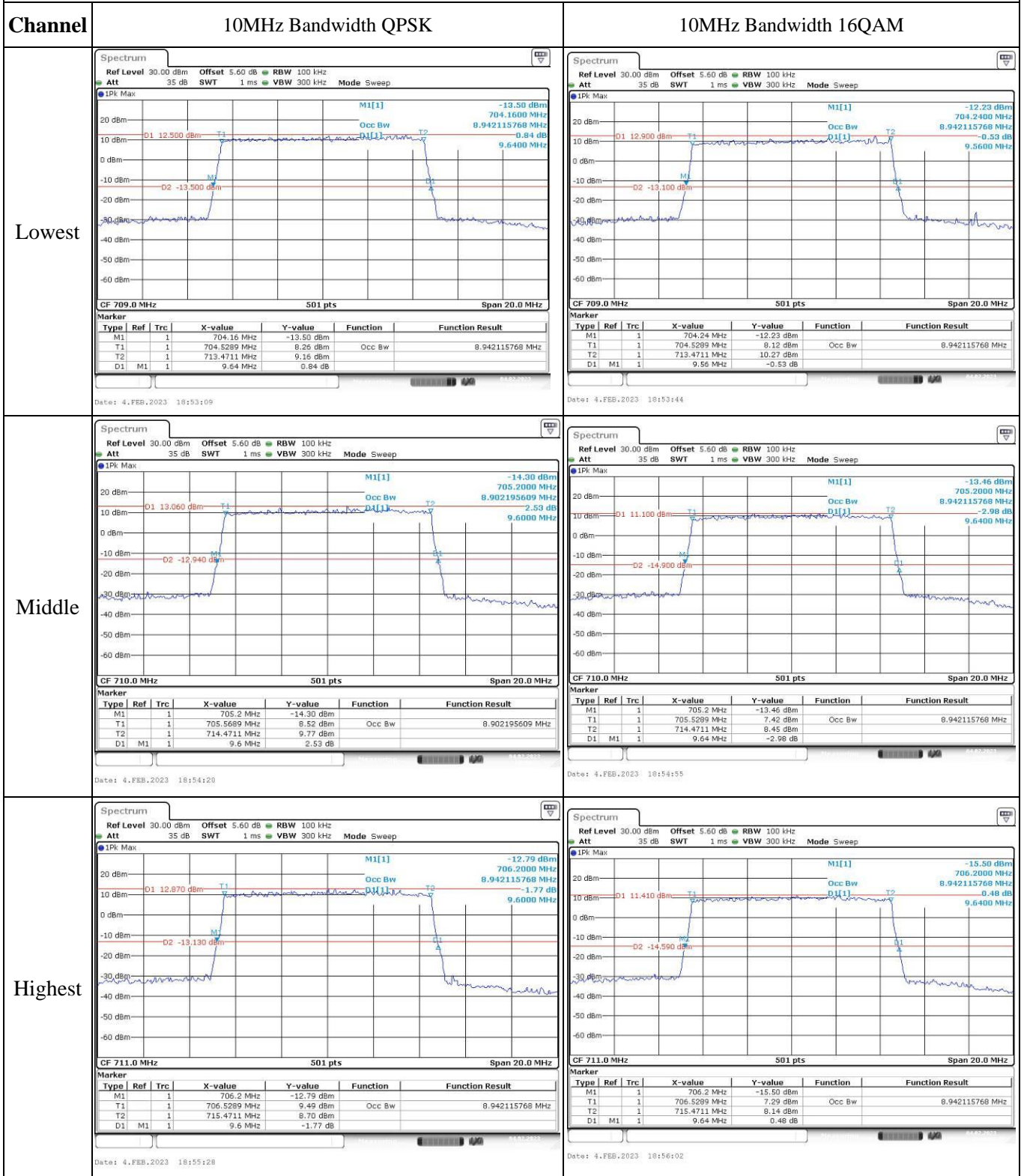
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.89	704.597	704.00	715.447	716.00
	-20	3.89	704.503	704.00	715.497	716.00
	-10	3.89	704.595	704.00	715.488	716.00
	0	3.89	704.559	704.00	715.484	716.00
	10	3.89	704.542	704.00	715.410	716.00
	20	3.89	704.529	704.00	715.471	716.00
	30	3.89	704.563	704.00	715.425	716.00
	40	3.89	704.559	704.00	715.480	716.00
	50	3.89	704.595	704.00	715.492	716.00
Frequency Stability vs. Voltage	20	3.45	704.588	704.00	715.439	716.00
	20	4.48	704.569	704.00	715.444	716.00
					Result:	Pass

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

Occupied Bandwidth



Occupied Bandwidth

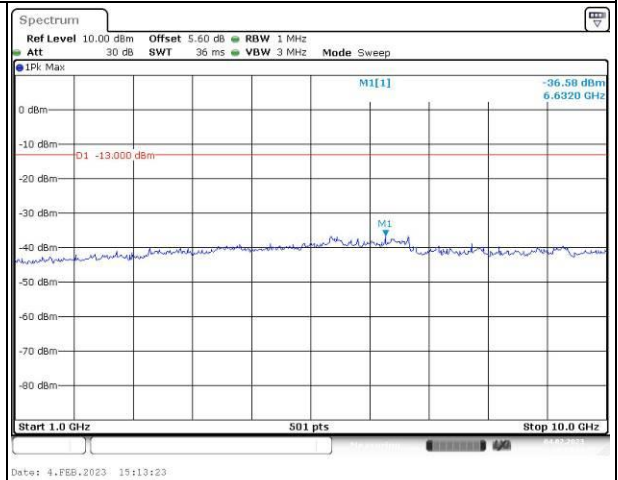
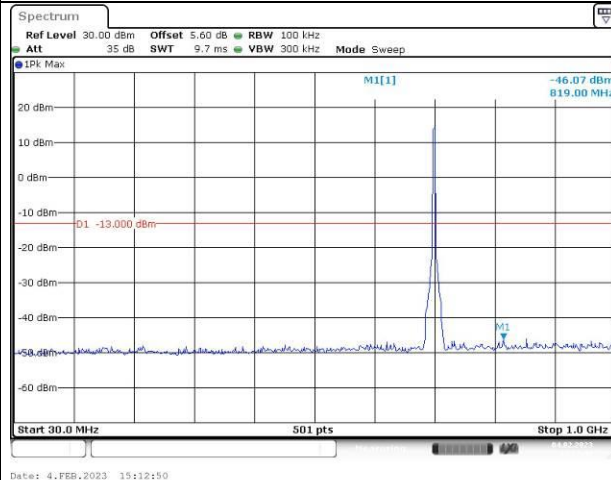


Spurious Emissions at Antenna Terminal

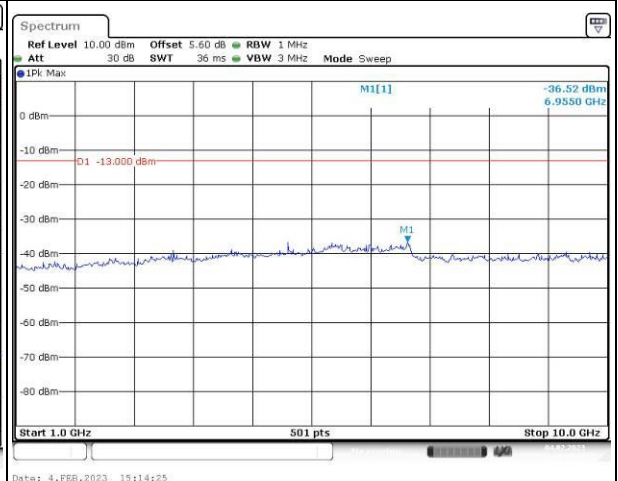
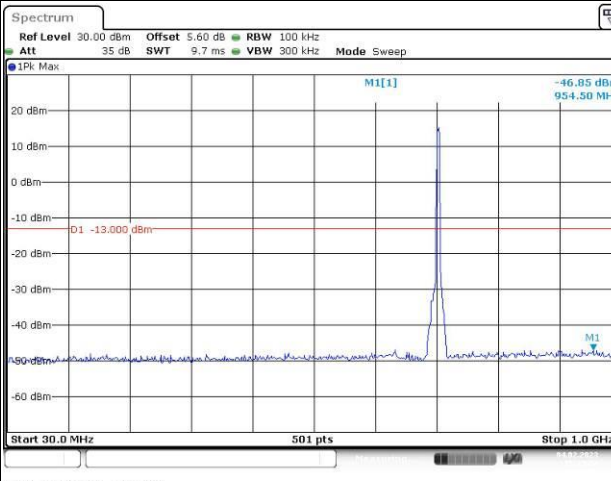
Channel

5MHz Bandwidth QPSK

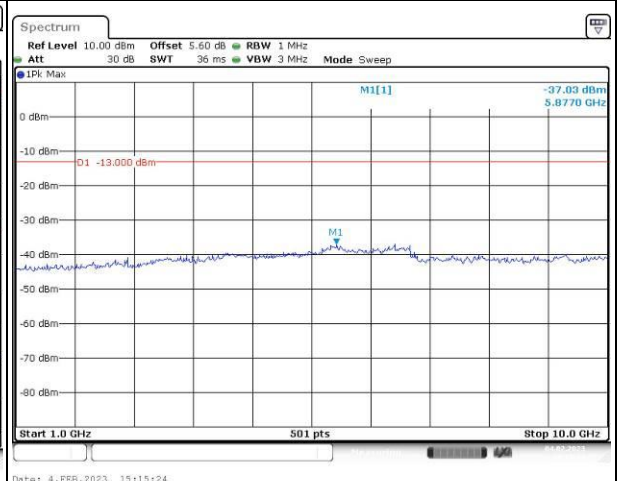
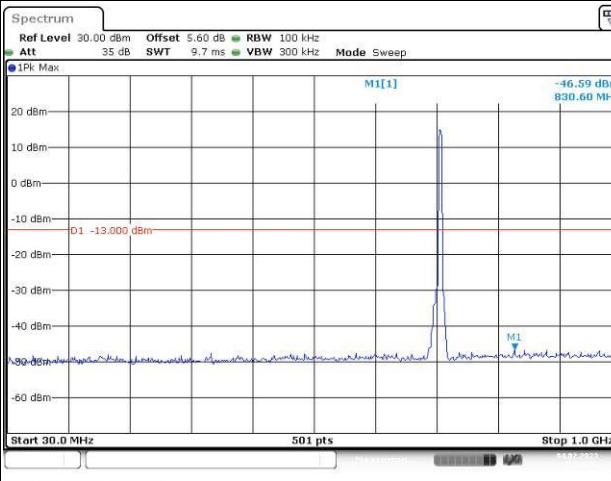
Lowest



Middle



Highest

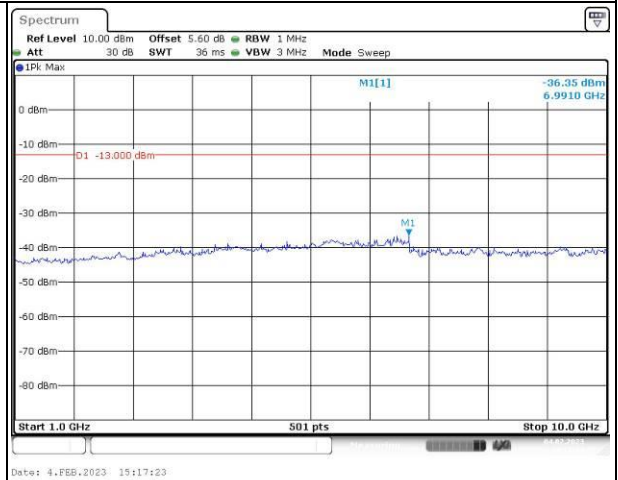
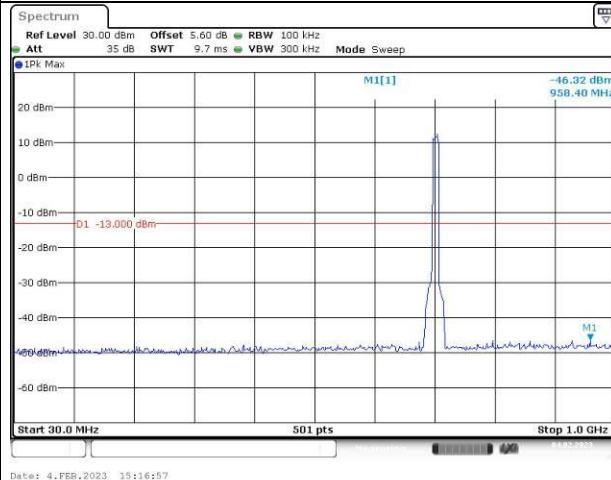


Spurious Emissions at Antenna Terminal

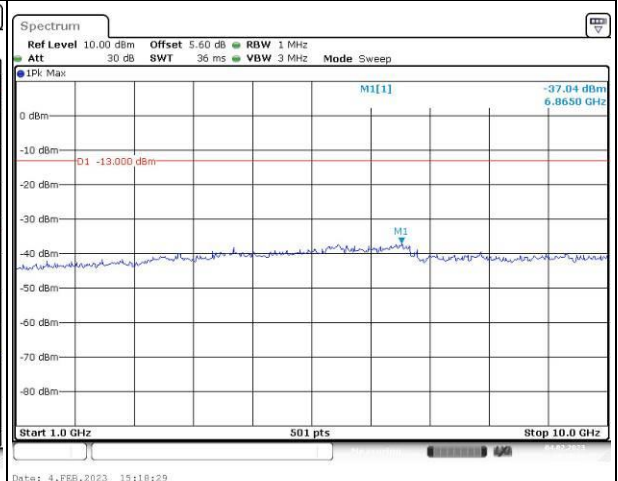
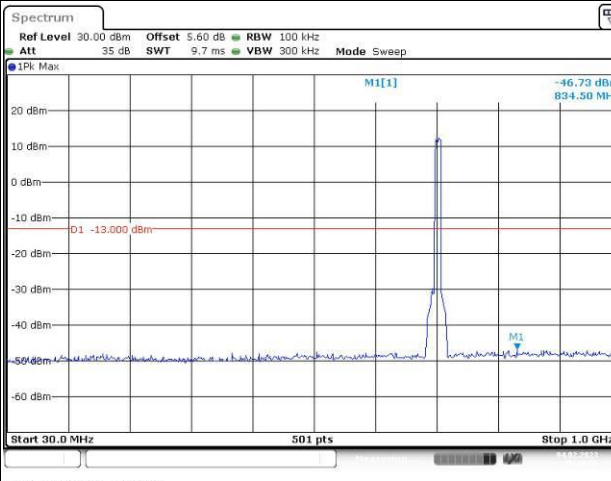
Channel

10MHz Bandwidth QPSK

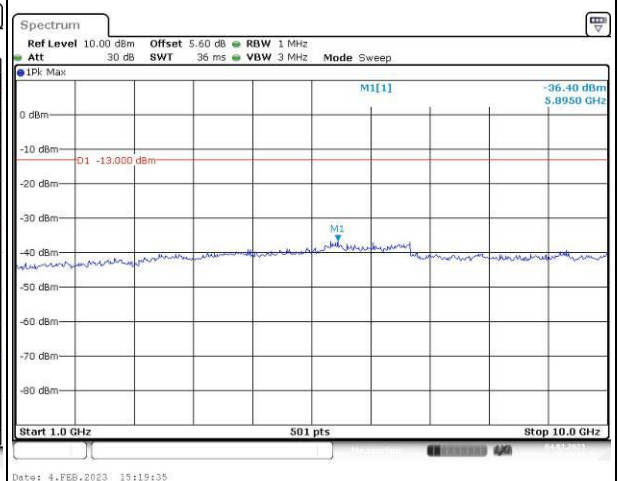
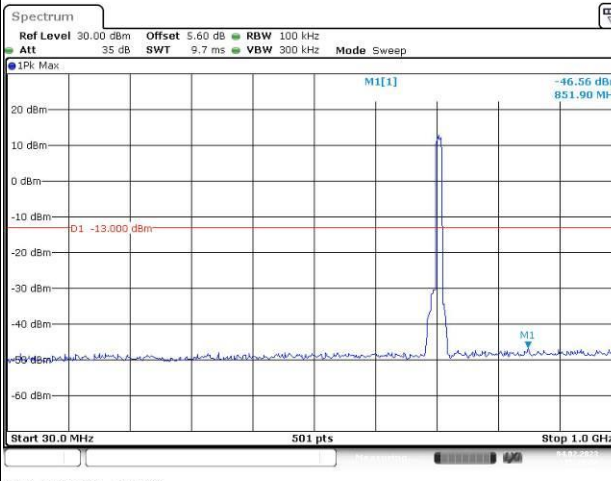
Lowest



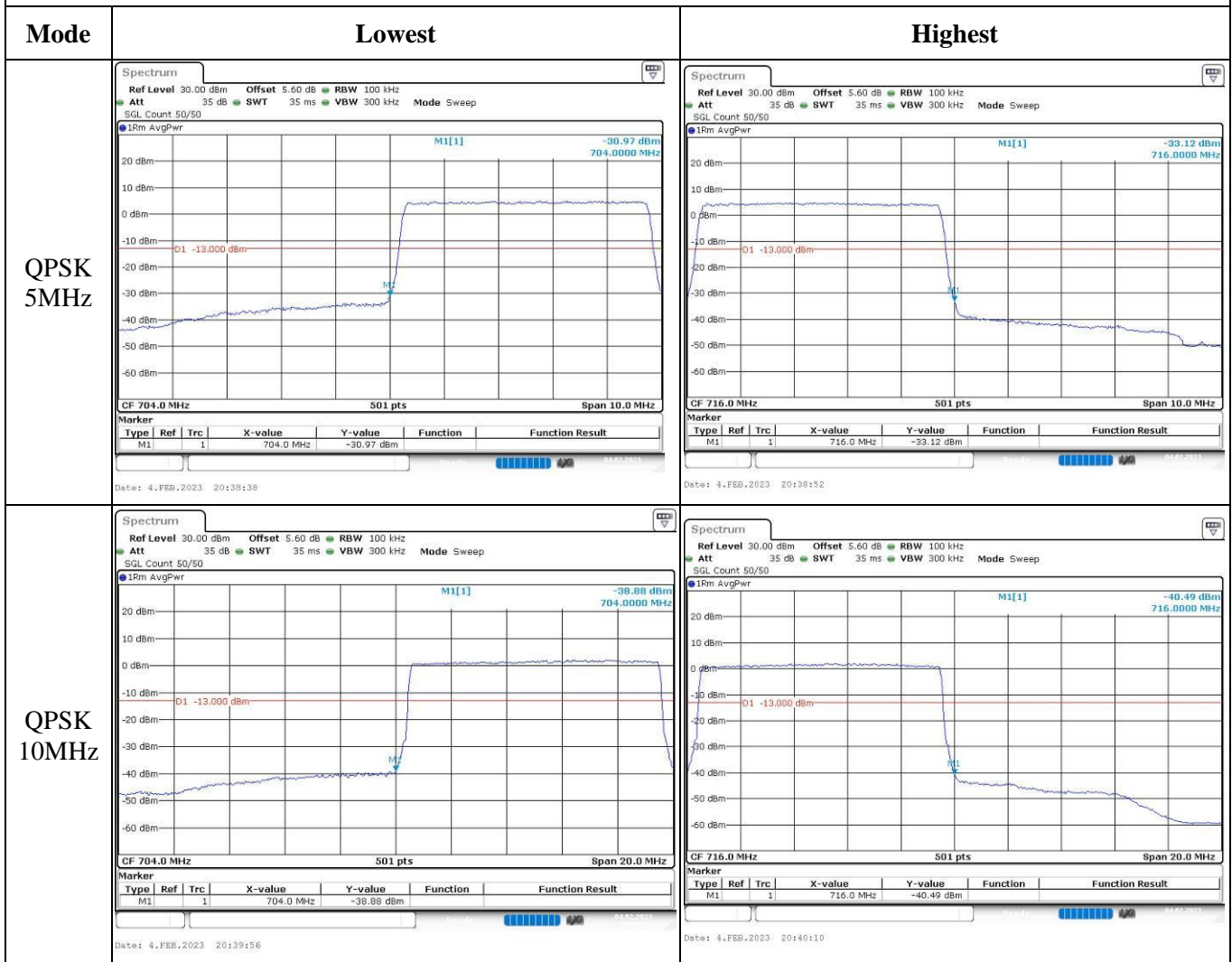
Middle



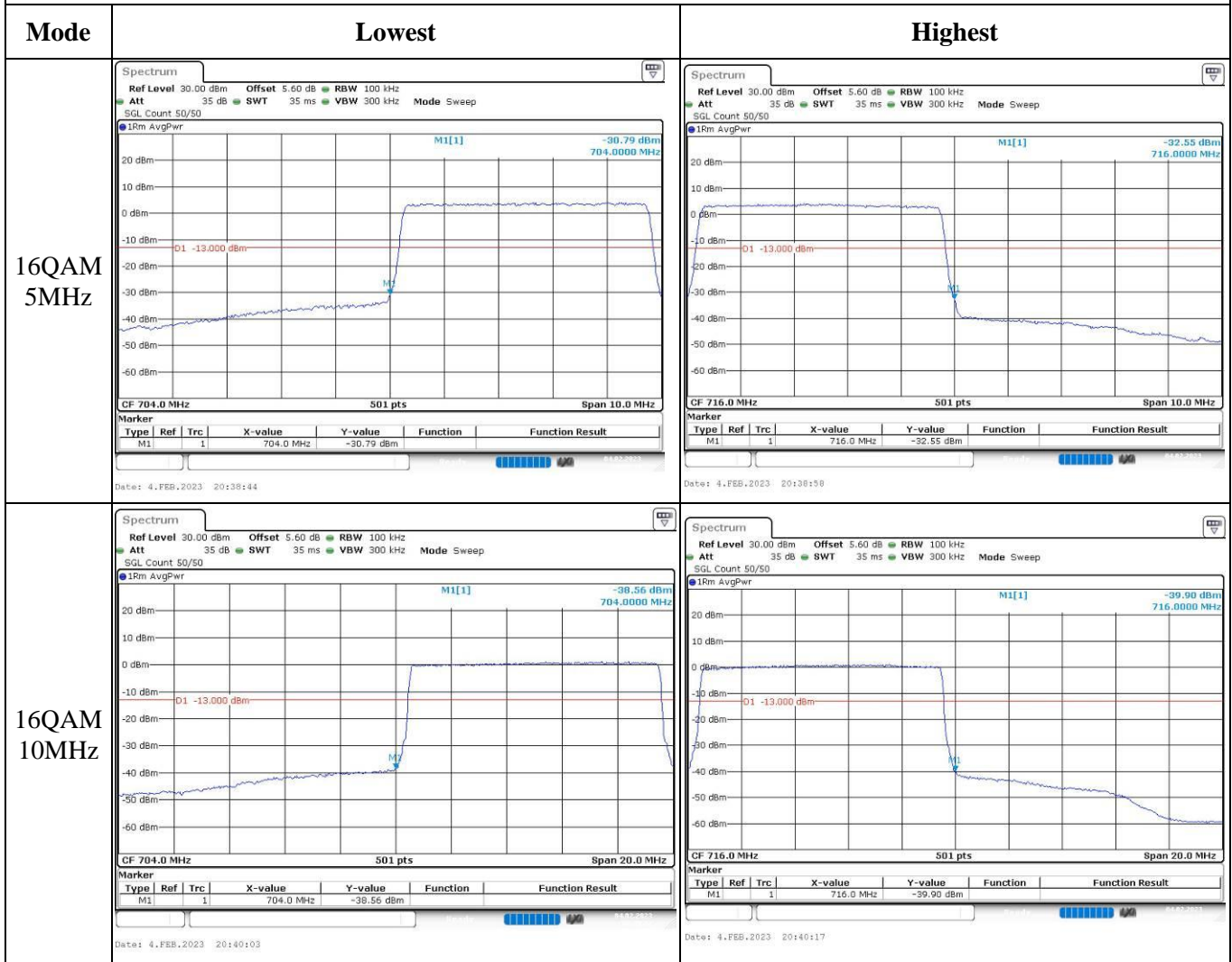
Highest



Out of band emission, Band Edge



Out of band emission, Band Edge



4.12 Antenna Port Test Data and Results for LTE Band 38

Serial Number:	1ZLT	Test Date:	2023/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/07/15	2023/07/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/04/06	2023/04/05
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/09/29	2023/09/28
UNI-T	Multimeter	UT39A+	C210582554	2022/07/15	2023/07/14
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)
5MHz	2572.5	2595	2617.5
10MHz	2575	2595	2615
15MHz	2577.5	2595	2612.5
20MHz	2580	2595	2610

Test Data:

FCC §2.1046; § 27.50(h)(2)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.13	22.4	22.42	23.74	33
	RB1#13	22.33	22.54	22.57		
	RB1#24	22.25	22.41	22.44		
	RB15#0	21.19	21.41	21.46		
	RB15#10	21.21	21.42	21.47		
	RB25#0	21.21	21.38	21.45		
5MHz 16QAM	RB1#0	21.37	21.36	21.44	22.77	33
	RB1#13	21.53	21.5	21.6		
	RB1#24	21.45	21.38	21.46		
	RB15#0	20.21	20.33	20.46		
	RB15#10	20.22	20.36	20.46		
10MHz QPSK	RB1#0	22.33	22.41	22.51	23.74	33
	RB1#25	22.41	22.51	22.57		
	RB1#49	22.37	22.48	22.55		
	RB25#0	21.24	21.32	21.43		
	RB25#25	21.29	21.44	21.49		
10MHz 16QAM	RB1#0	21.33	21.58	21.37	22.82	33
	RB1#25	21.4	21.65	21.44		
	RB1#49	21.41	21.62	21.44		
	RB25#0	20.26	20.33	20.42		
	RB25#25	20.29	20.41	20.51		
15MHz QPSK	RB1#0	22.27	22.37	22.44	23.74	33
	RB1#38	22.43	22.51	22.57		
	RB1#74	22.4	22.43	22.5		
	RB36#0	21.24	21.36	21.4		
	RB36#39	21.33	21.44	21.5		
	RB75#0	21.3	21.43	21.47		
15MHz 16QAM	RB1#0	21.37	21.5	21.35	22.83	33
	RB1#38	21.56	21.66	21.46		
	RB1#74	21.56	21.58	21.4		
	RB36#0	20.27	20.32	20.36		
	RB36#39	20.38	20.41	20.44		
	RB75#0	20.27	20.36	20.43		

20MHz QPSK	RB1#0	22.23	22.29	22.29	23.72	33
	RB1#50	22.53	22.55	22.53		
	RB1#99	22.42	22.37	22.4		
	RB50#0	21.2	21.3	21.34		
	RB50#50	21.33	21.42	21.47		
	RB100#0	21.26	21.34	21.37		
20MHz 16QAM	RB1#0	21.38	21.31	21.25	22.84	33
	RB1#50	21.67	21.59	21.49		
	RB1#99	21.55	21.38	21.35		
	RB50#0	20.21	20.28	20.34		
	RB50#50	20.34	20.4	20.47		
	RB100#0	20.23	20.31	20.36		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G _T (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	8.2	8.41	9.28	13	
	RB100#0	8.29	7.59	8	13	
20MHz 16QAM	RB1#0	9.71	9.54	9.91	13	
	RB100#0	9.91	9.88	9.94	13	
					Result:	Pass

FCC §2.1049, §27.53: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
5MHz QPSK	4.491	4.491	4.511	5	4.92	4.94
5MHz 16QAM	4.511	4.511	4.491	4.94	4.92	4.92
10MHz QPSK	8.942	8.942	8.942	9.68	9.6	9.64
10MHz 16QAM	8.942	8.942	8.942	9.6	9.92	9.52
15MHz QPSK	13.473	13.473	13.473	15	15	14.94
15MHz 16QAM	13.593	13.533	13.533	15.18	15.42	15.12
20MHz QPSK	17.964	17.964	17.964	19.44	19.2	19.36
20MHz 16QAM	17.884	17.964	17.964	19.28	19.36	19.68
Note: The test plots please refer to the Plots of Occupied Bandwidth						

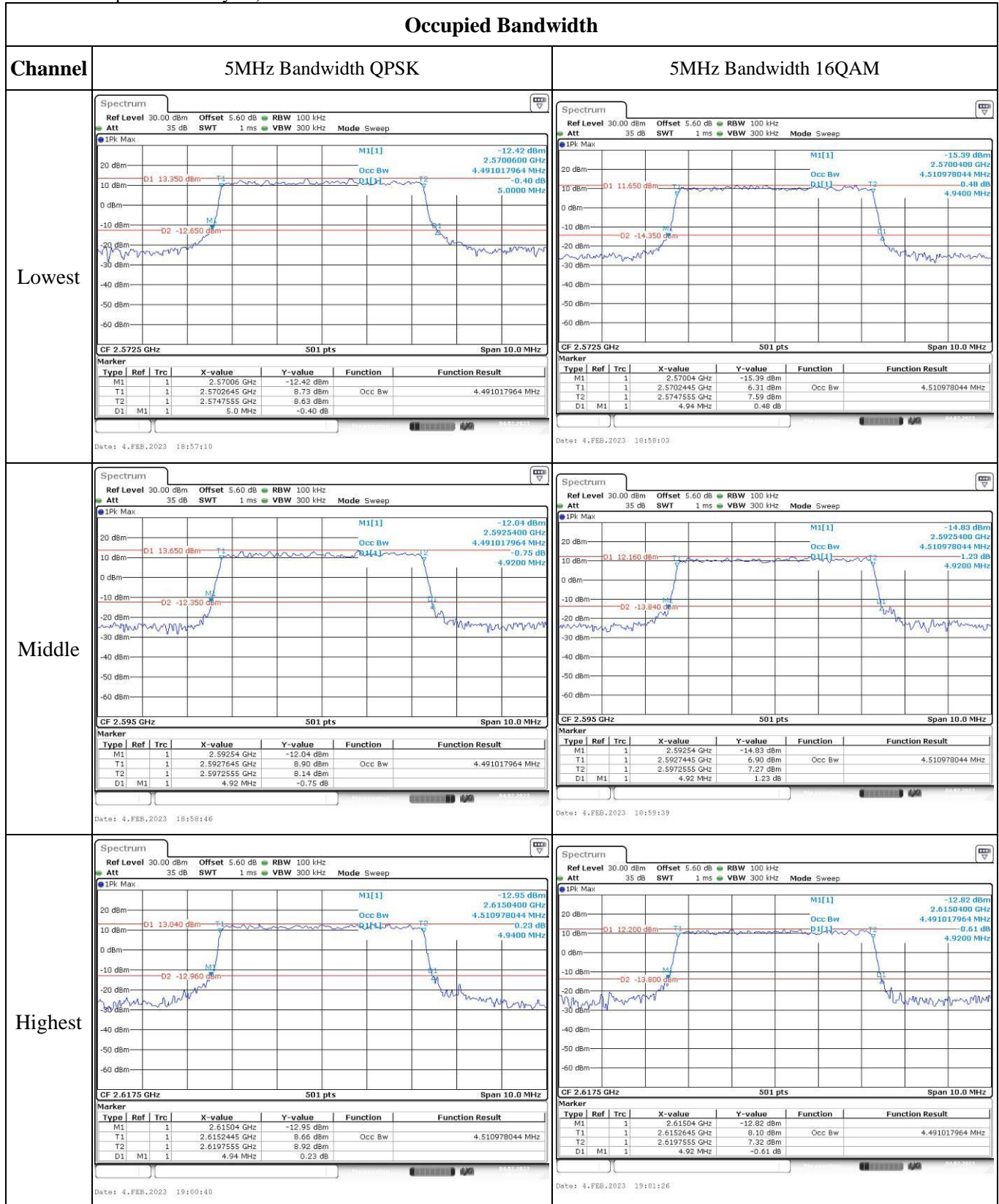
FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.89	2570.4076	2570.00	2619.6075	2620
	-20	3.89	2570.4044	2570.00	2619.6029	2620
	-10	3.89	2570.4031	2570.00	2619.6076	2620
	0	3.89	2570.4072	2570.00	2619.6051	2620
	10	3.89	2570.4051	2570.00	2619.6096	2620
	20	3.89	2570.4058	2570.00	2619.6022	2620
	30	3.89	2570.4092	2570.00	2619.6032	2620
	40	3.89	2570.4095	2570.00	2619.6045	2620
Frequency Stability vs. Voltage	20	3.45	2570.4074	2570.00	2619.6073	2620
	20	4.48	2570.4045	2570.00	2619.6048	2620
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.89	2570.4023	2570.00	2619.6069	2620
	-20	3.89	2570.4041	2570.00	2619.6093	2620
	-10	3.89	2570.4086	2570.00	2619.6070	2620
	0	3.89	2570.4041	2570.00	2619.6019	2620
	10	3.89	2570.4019	2570.00	2619.6087	2620
	20	3.89	2570.4058	2570.00	2619.6022	2620
	30	3.89	2570.4006	2570.00	2619.6014	2620
	40	3.89	2570.4030	2570.00	2619.6019	2620
Frequency Stability vs. Voltage	20	3.45	2570.4056	2570.00	2619.6096	2620
	20	4.48	2570.4033	2570.00	2619.6035	2620
					Result:	Pass

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



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz 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</p> <p>CF 2.575 GHz 501 pts Span 20.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.57016 GHz</td> <td>-16.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.5705289 GHz</td> <td>6.82 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.5794711 GHz</td> <td>7.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.68 MHz</td> <td>-0.70 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4.FEB.2023 19:03:04</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.57016 GHz	-16.66 dBm			T1	1		2.5705289 GHz	6.82 dBm	Occ Bw	8.942115768 MHz	T2	1		2.5794711 GHz	7.15 dBm			D1	M1	1	9.68 MHz	-0.70 dB			<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>CF 2.575 GHz 501 pts Span 20.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.57020 GHz</td> <td>-17.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.5705289 GHz</td> <td>6.07 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.5794711 GHz</td> <td>5.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.6 MHz</td> <td>-0.83 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4.FEB.2023 19:03:39</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.57020 GHz	-17.61 dBm			T1	1		2.5705289 GHz	6.07 dBm	Occ Bw	8.942115768 MHz	T2	1		2.5794711 GHz	5.67 dBm			D1	M1	1	9.6 MHz	-0.83 dB		
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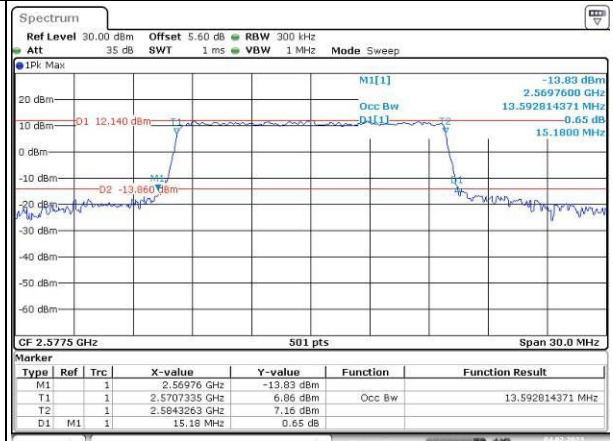
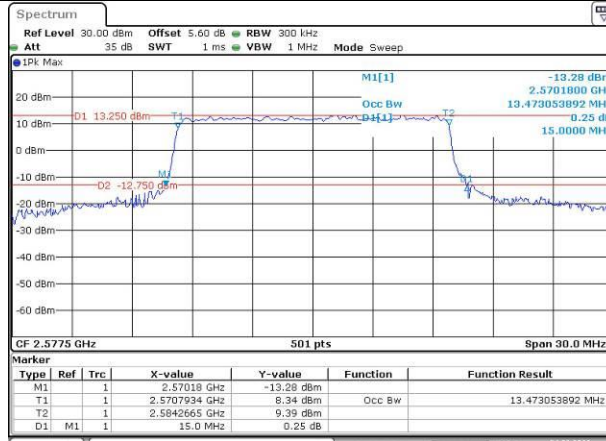
Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

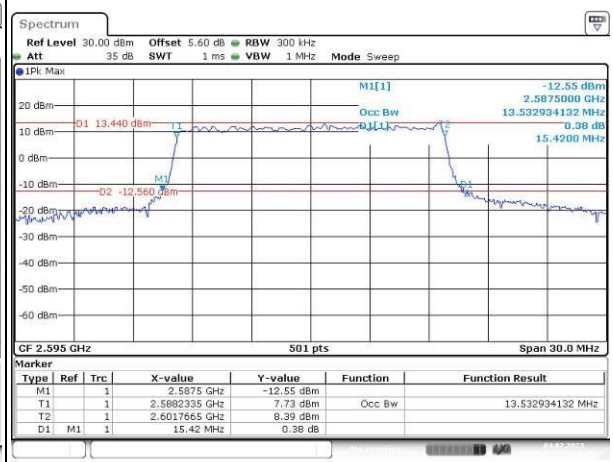
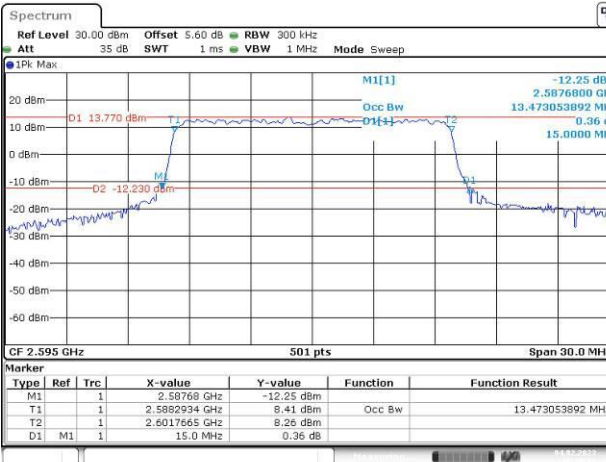
Lowest



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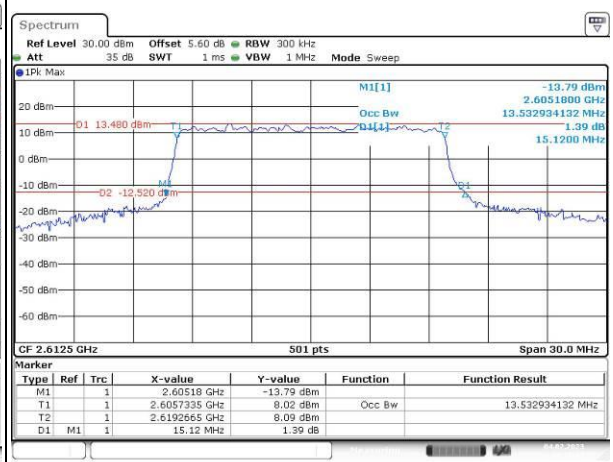
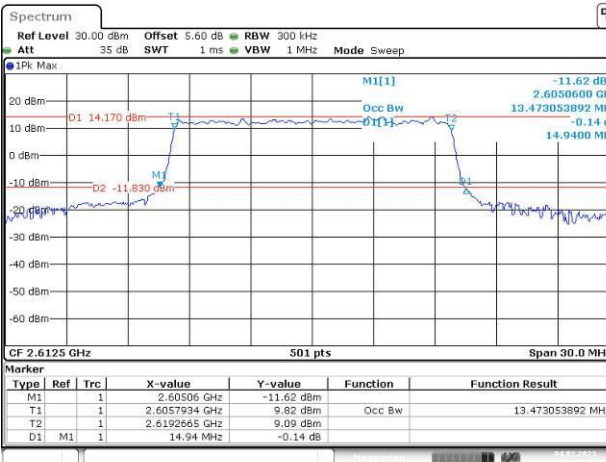
Middle



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Date: 4.FEB.2023 19:10:46

Highest



Date: 4.FEB.2023 19:11:39

Date: 4.FEB.2023 19:12:25

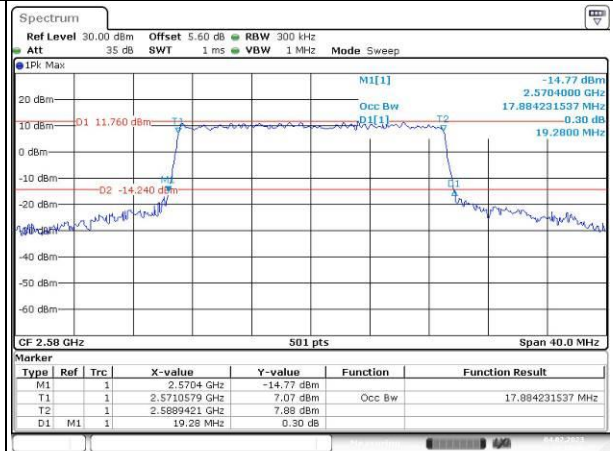
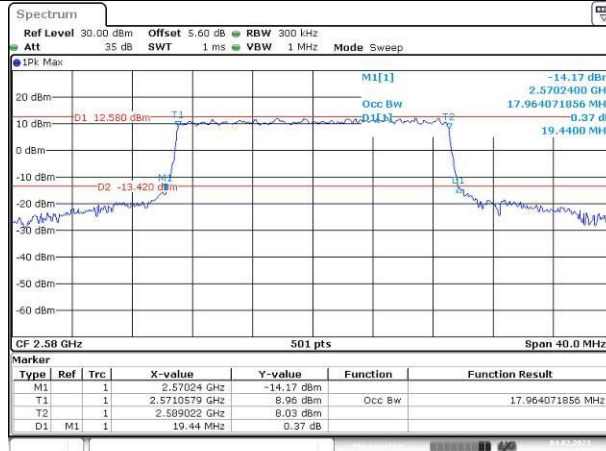
Occupied Bandwidth

Channel

20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

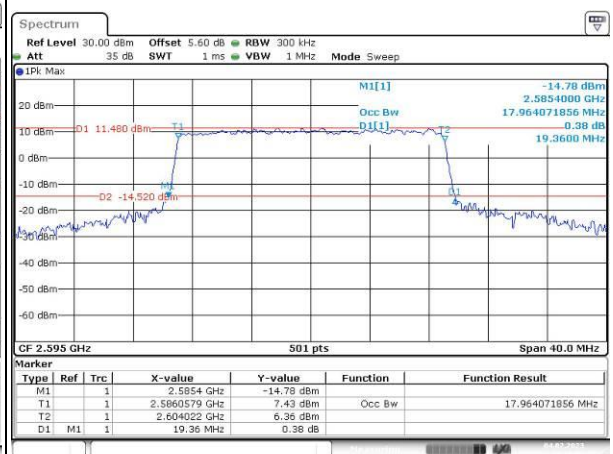
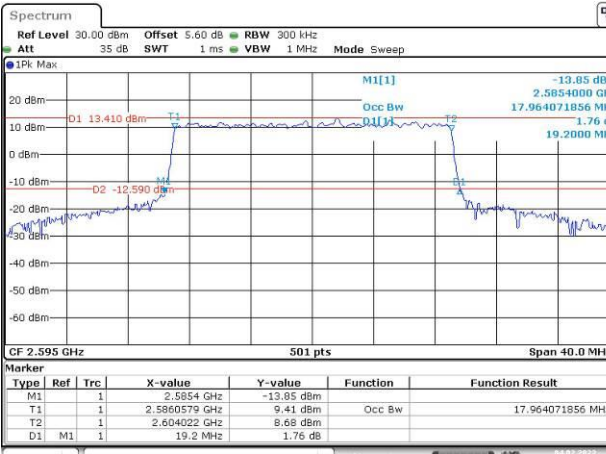
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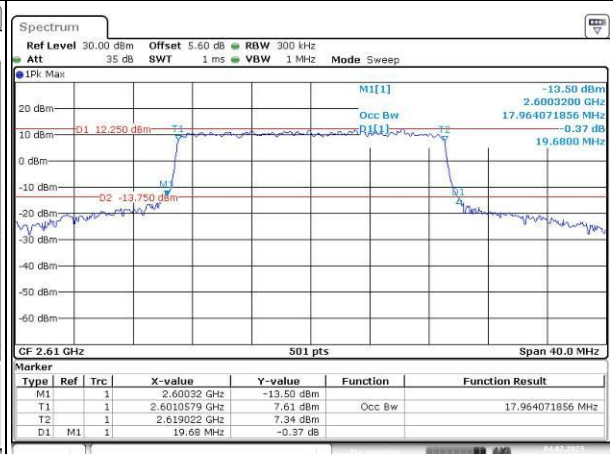
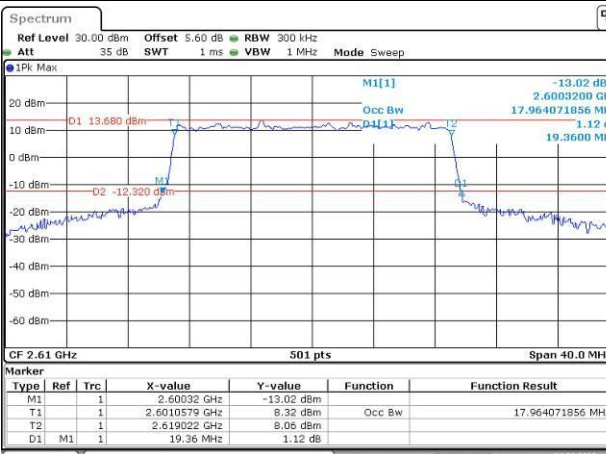
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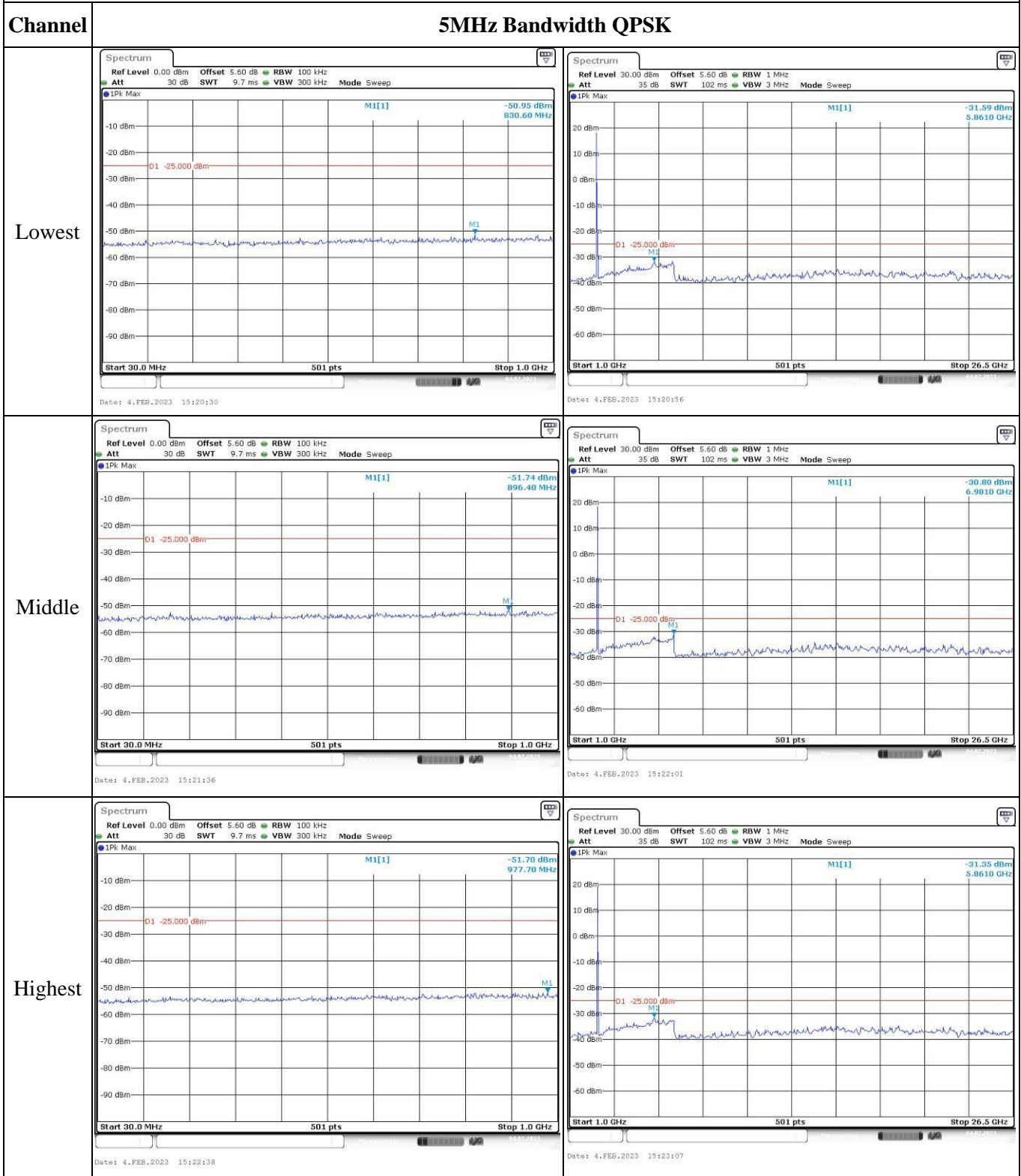
Highest



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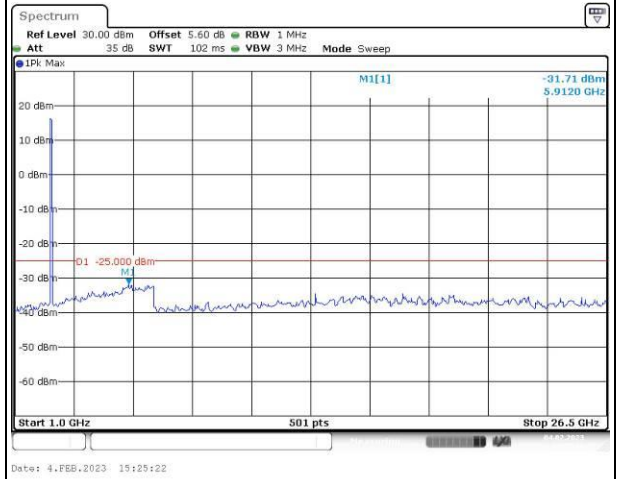
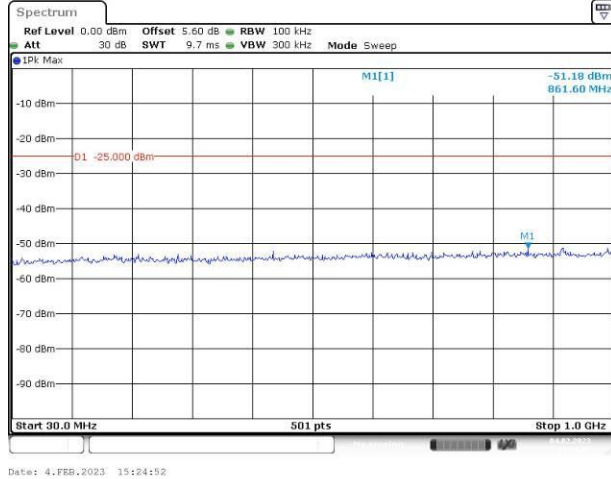


Spurious Emissions at Antenna Terminal

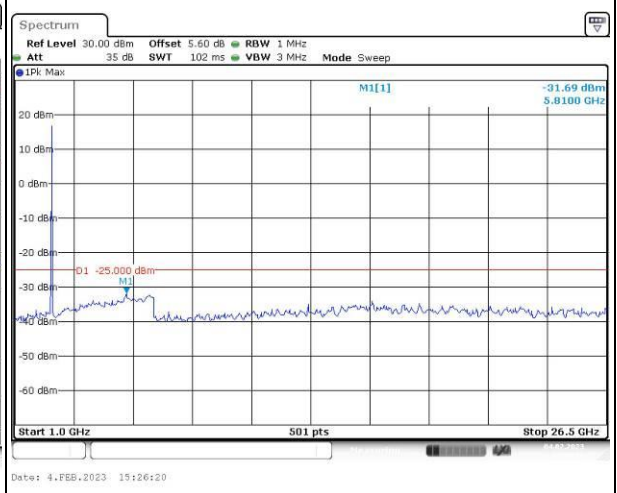
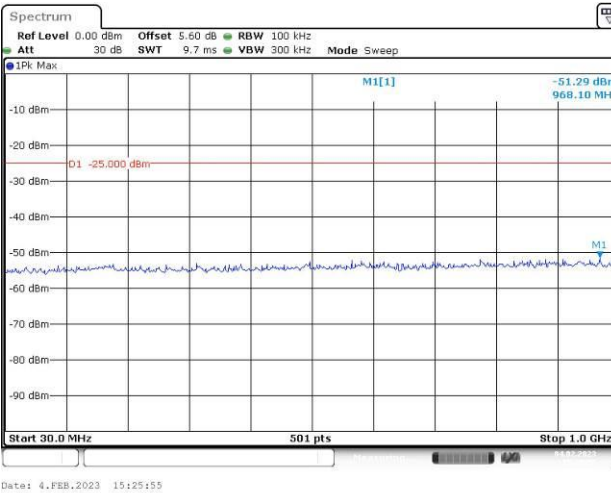
Channel

10MHz Bandwidth QPSK

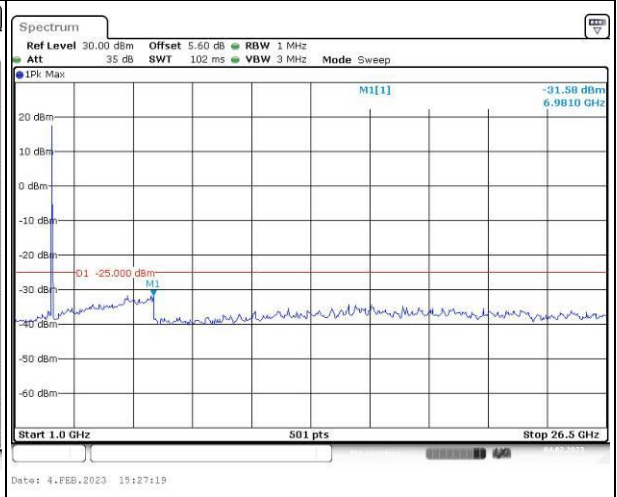
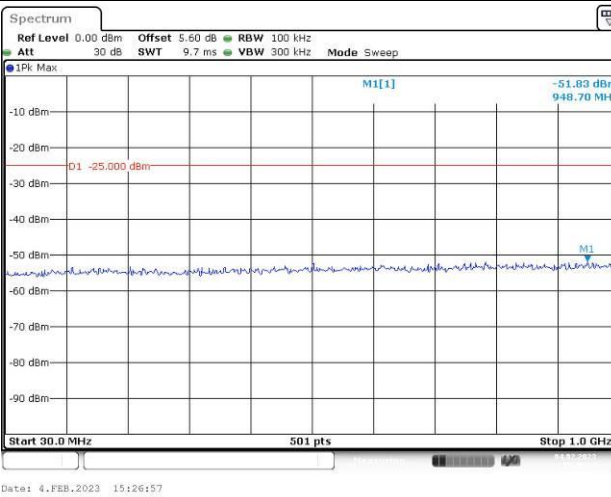
Lowest



Middle



Highest

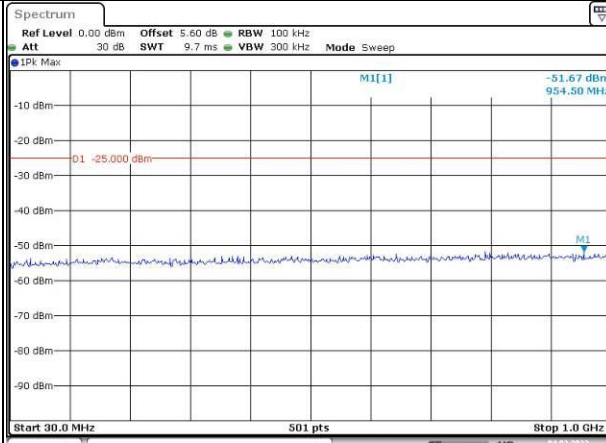


Spurious Emissions at Antenna Terminal

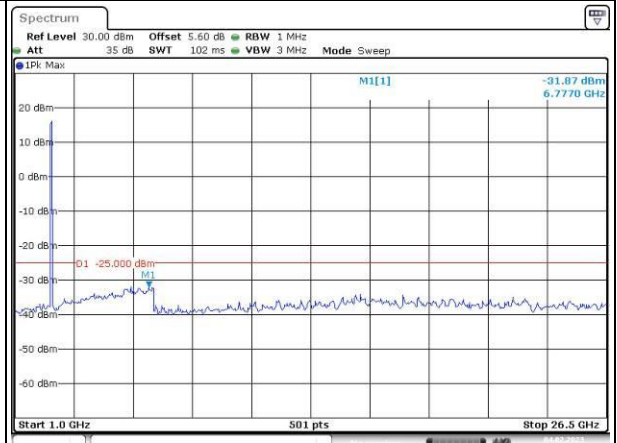
Channel

15MHz Bandwidth QPSK

Lowest

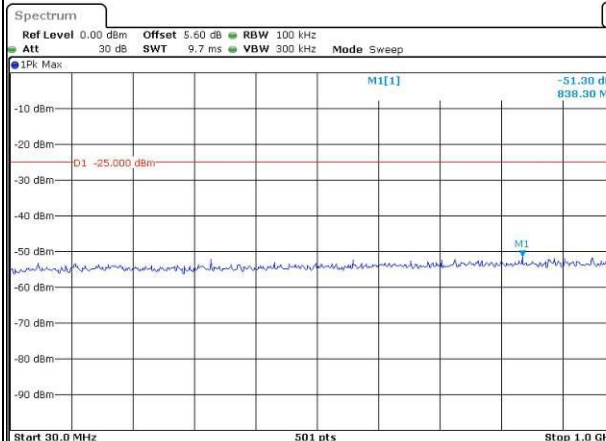


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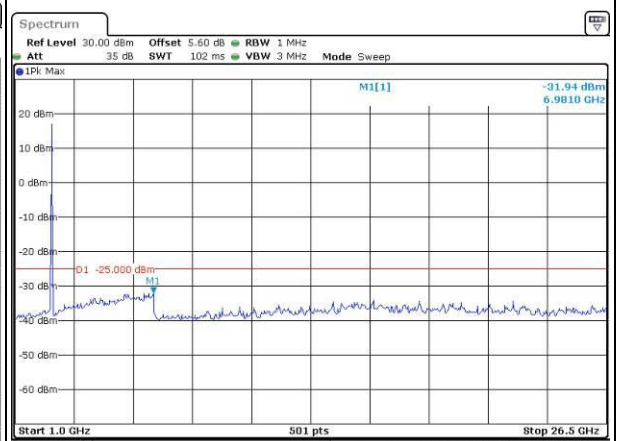


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Middle

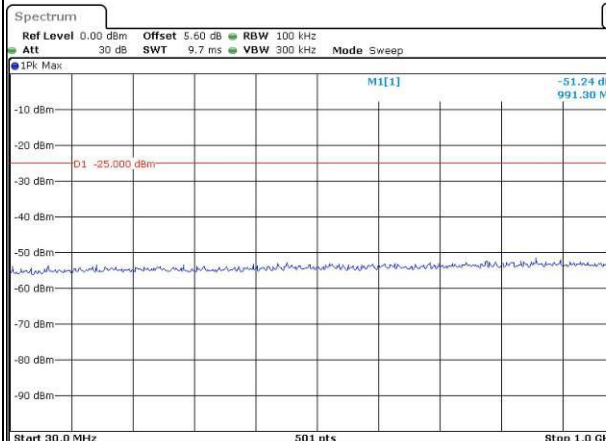


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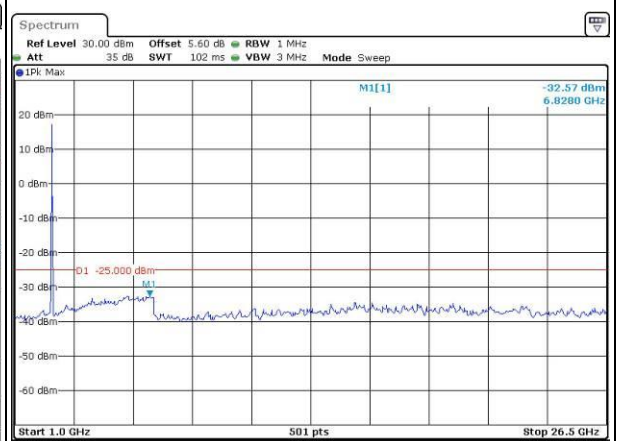


Date: 4.FEB.2023 15:30:54

Highest



Date: 4.FEB.2023 15:31:31



Date: 4.FEB.2023 15:32:00