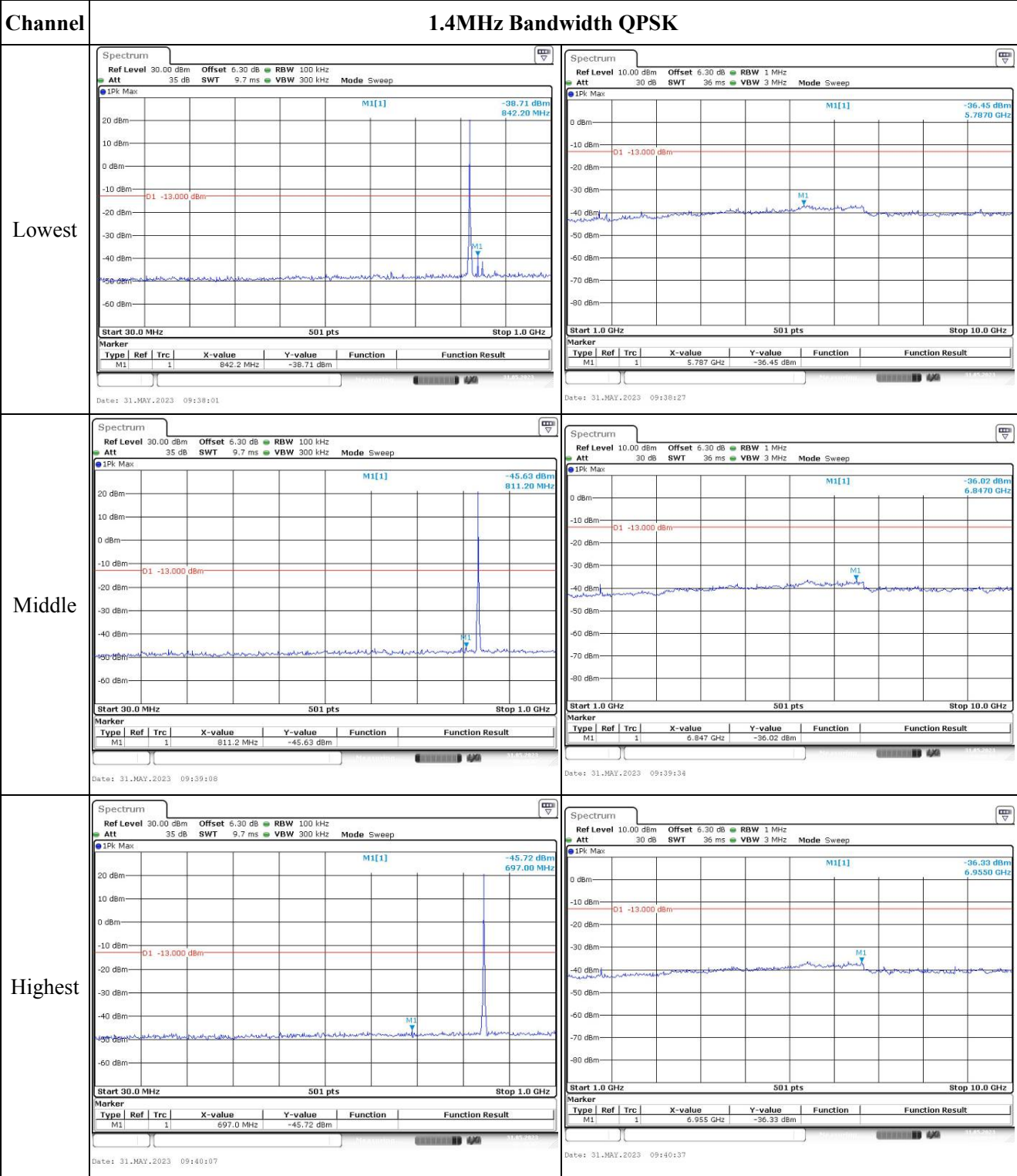


Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM																																																																																
Lowest	<p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td></td> <td></td> <td>824.16 MHz</td> <td>-12.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td></td> <td></td> <td></td> <td>824.5289 MHz</td> <td>9.93 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td></td> <td></td> <td></td> <td>833.4711 MHz</td> <td>11.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td></td> <td></td> <td>9.68 MHz</td> <td>0.35 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 19:10:05</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1				824.16 MHz	-12.95 dBm			T1				824.5289 MHz	9.93 dBm	Occ Bw	8.942115768 MHz	T2				833.4711 MHz	11.72 dBm			D1	M1			9.68 MHz	0.35 dB			<p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td></td> <td></td> <td>824.24 MHz</td> <td>-10.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td></td> <td></td> <td></td> <td>824.5289 MHz</td> <td>10.34 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td></td> <td></td> <td></td> <td>833.4711 MHz</td> <td>11.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td></td> <td></td> <td>9.56 MHz</td> <td>-1.42 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 19:10:44</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1				824.24 MHz	-10.87 dBm			T1				824.5289 MHz	10.34 dBm	Occ Bw	8.942115768 MHz	T2				833.4711 MHz	11.47 dBm			D1	M1			9.56 MHz	-1.42 dB		
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Spurious Emissions at Antenna Terminal

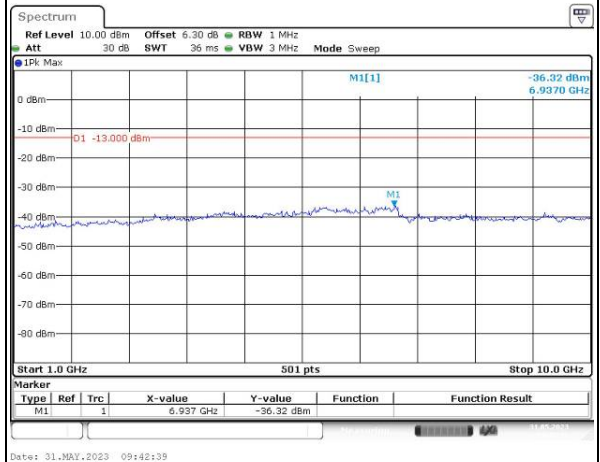
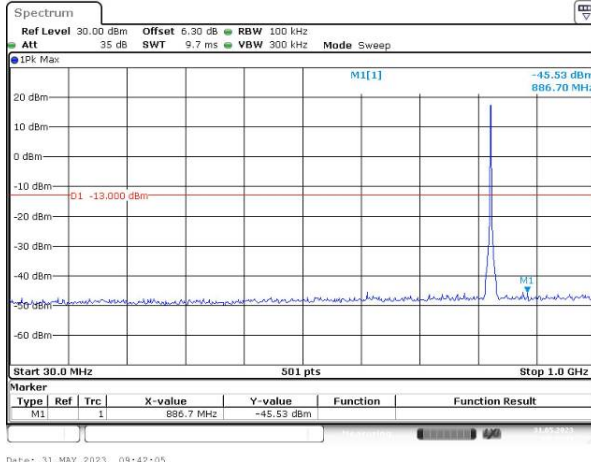


### Spurious Emissions at Antenna Terminal

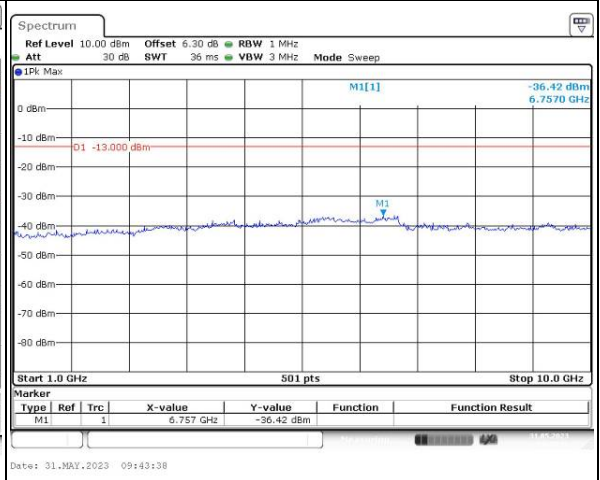
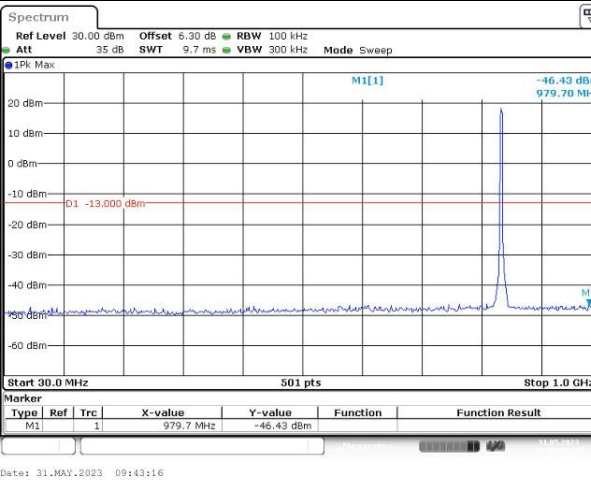
Channel

3MHz Bandwidth QPSK

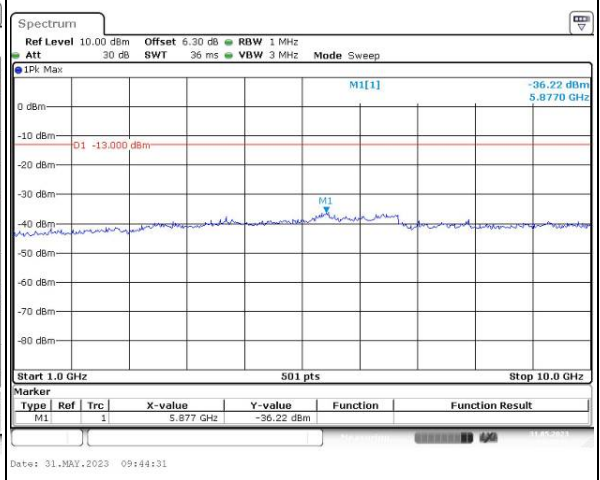
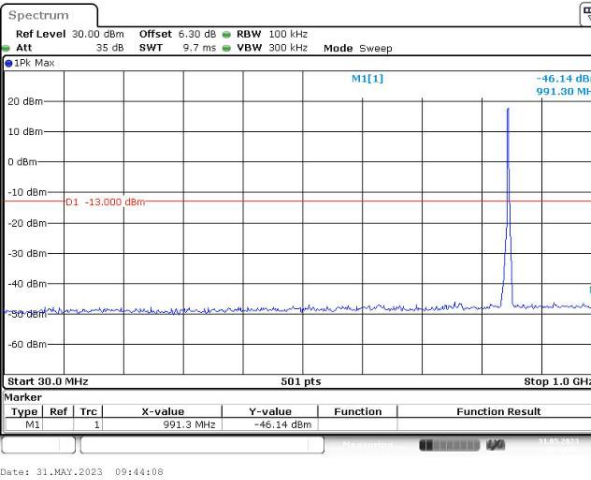
Lowest



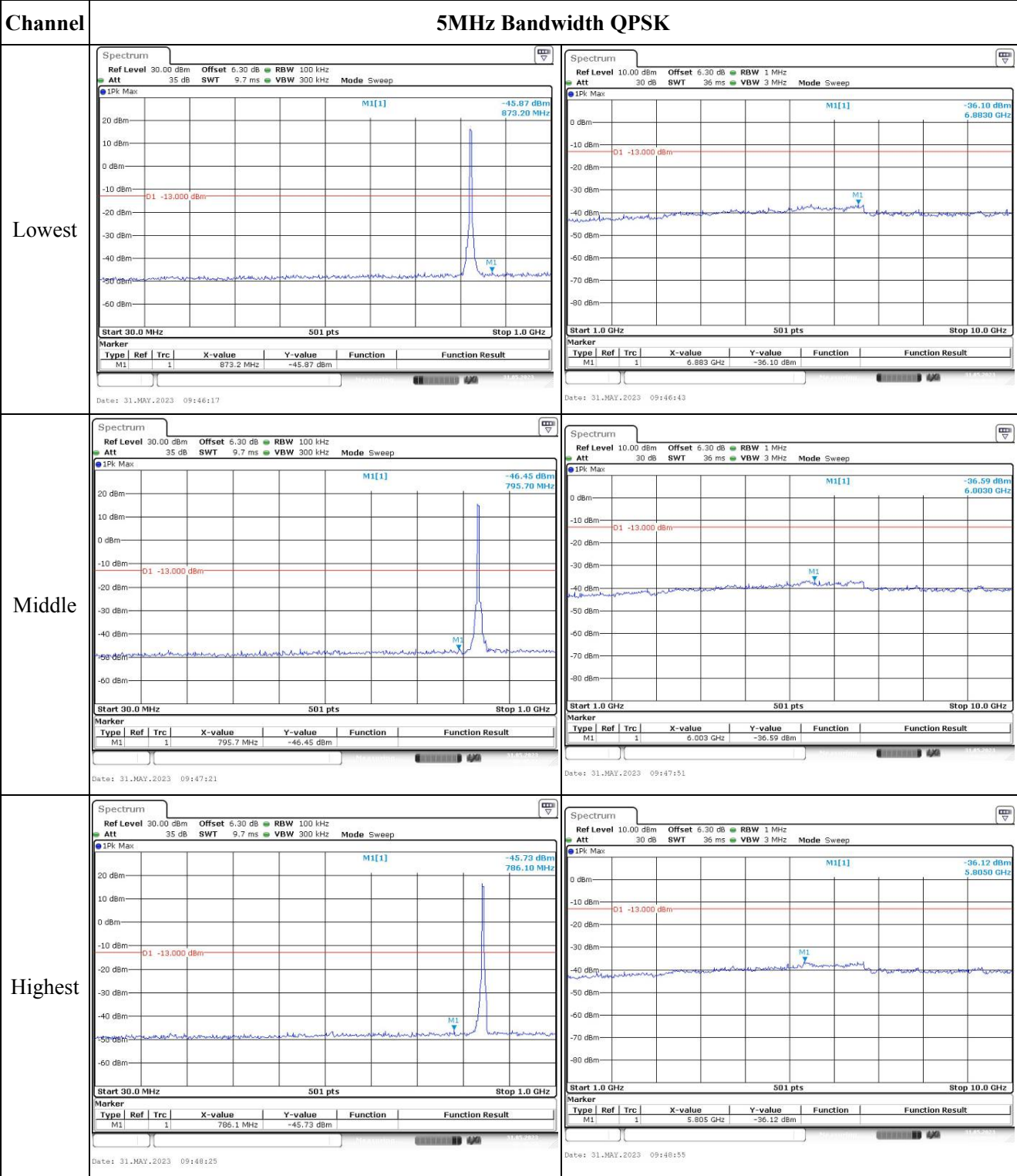
Middle



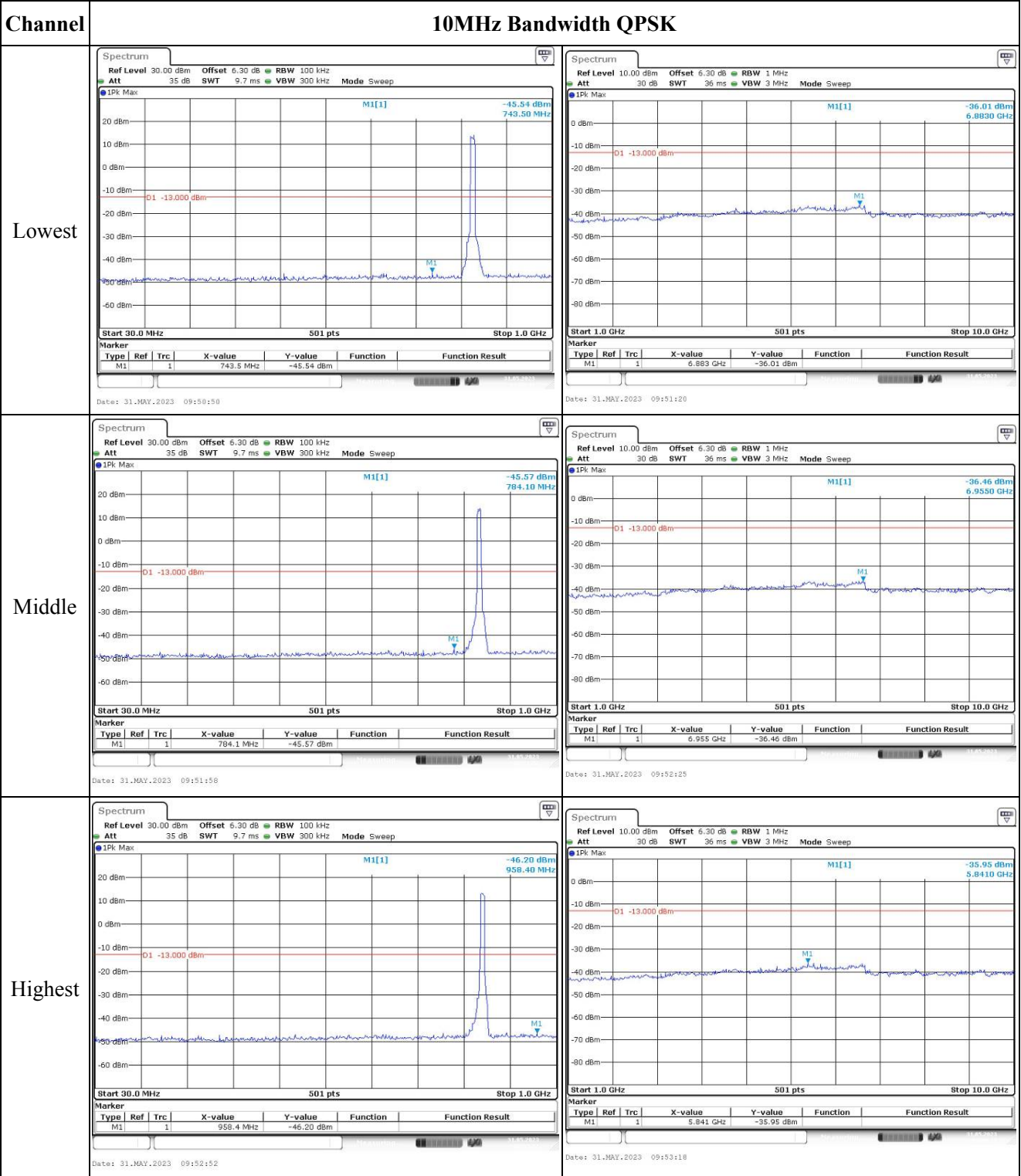
Highest



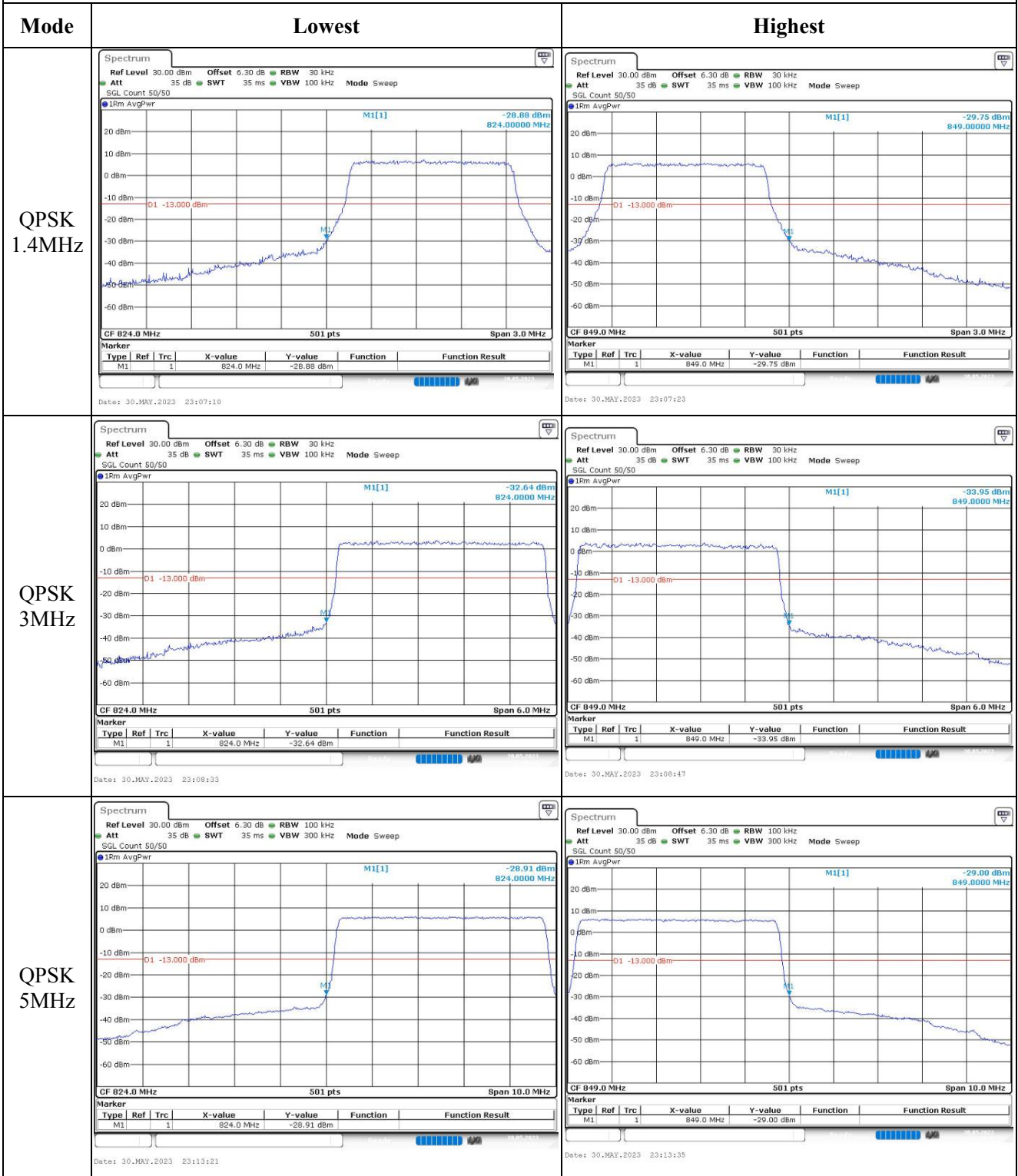
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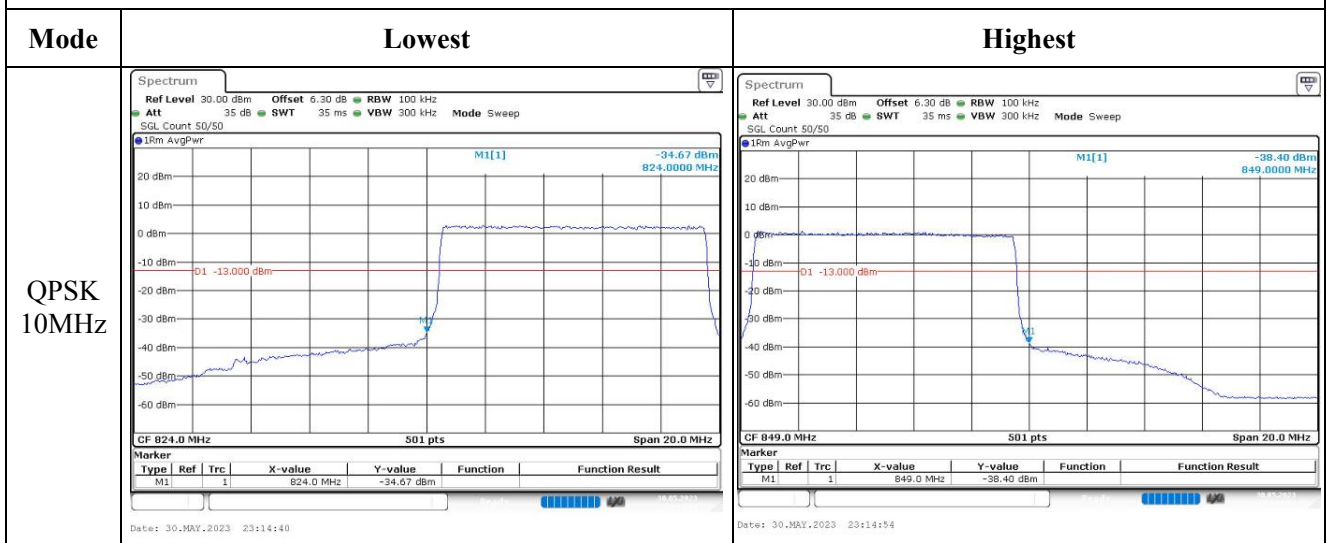
### Spurious Emissions at Antenna Terminal



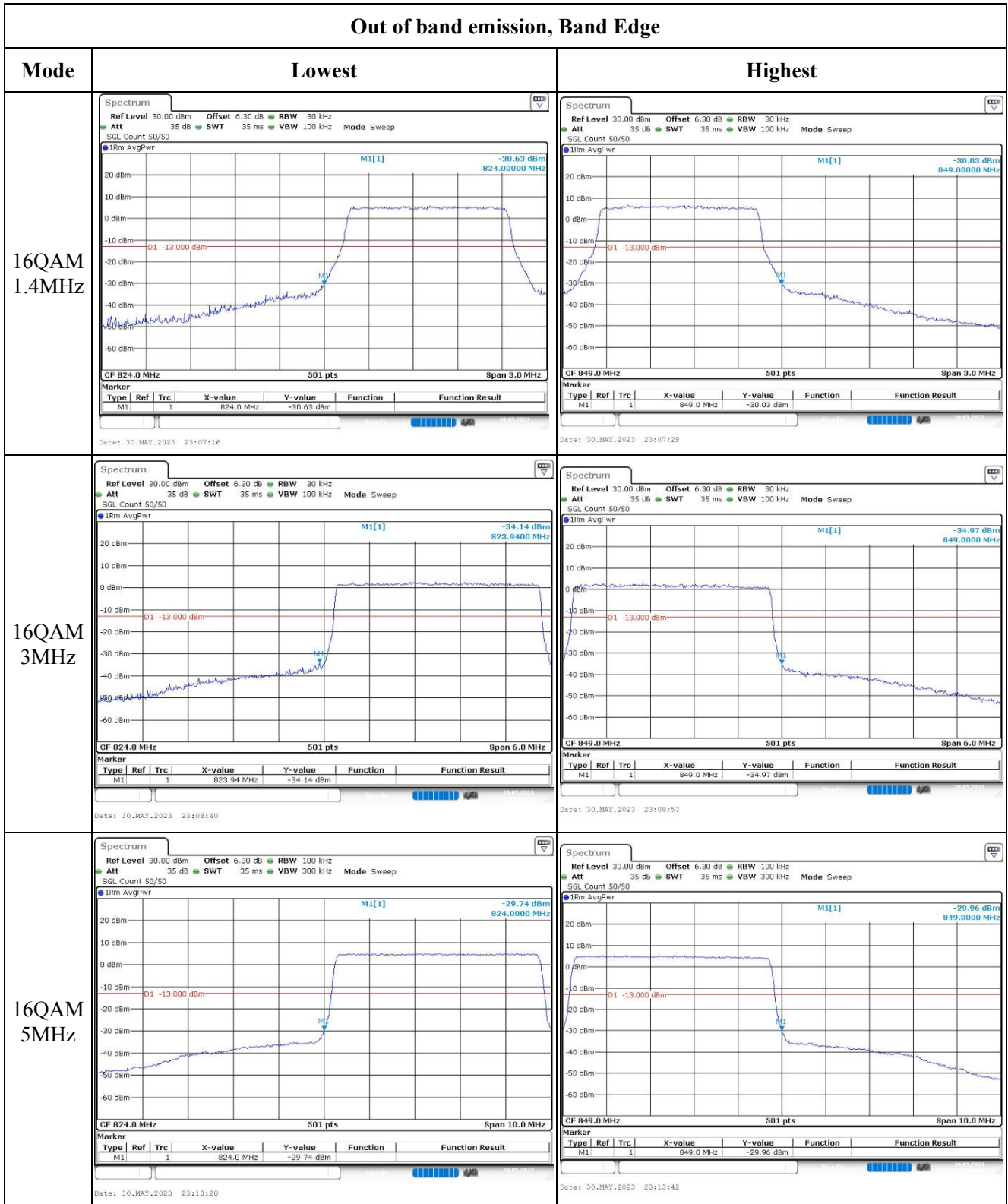
Out of band emission, Band Edge



Out of band emission, Band Edge

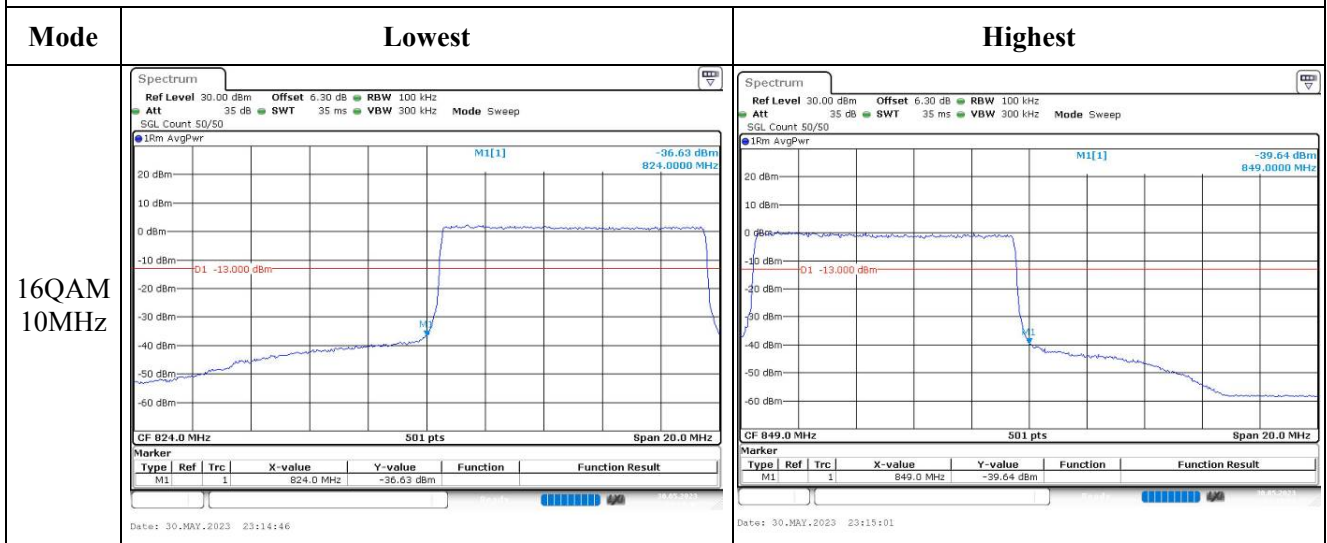


Out of band emission, Band Edge





Out of band emission, Band Edge



**4.9 Antenna Port Test Data and Results for LTE Band 7**

Serial Number:	25K9-3	Test Date:	2023/05/30~2023/05/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

**Environmental Conditions:**

Temperature:	26.7~27.2	Relative Humidity:	49~55	ATM Pressure:	99.6~100.0
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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	2023/3/31	2024/3/30
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
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
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)
5MHz	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

**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		
5MHz QPSK	RB1#0	22.62	22.53	22.36	24.24	33
	RB1#13	22.73	22.69	22.52		
	RB1#24	22.62	22.52	22.4		
	RB15#0	21.74	21.61	21.5		
	RB15#10	21.78	21.63	21.45		
	RB25#0	21.69	21.61	21.41		
5MHz 16QAM	RB1#0	21.48	21.8	21.4	23.44	33
	RB1#13	21.62	21.93	21.52		
	RB1#24	21.49	21.8	21.43		
	RB15#0	20.75	20.62	20.56		
	RB15#10	20.82	20.63	20.5		
10MHz QPSK	RB1#0	22.71	22.59	22.54	24.35	33
	RB1#25	22.84	22.79	22.65		
	RB1#49	22.69	22.59	22.47		
	RB25#0	21.7	21.62	21.53		
	RB25#25	21.83	21.69	21.46		
	RB50#0	21.74	21.68	21.49		
10MHz 16QAM	RB1#0	21.84	21.57	21.94	23.56	33
	RB1#25	21.99	21.71	22.05		
	RB1#49	21.79	21.56	21.97		
	RB25#0	20.71	20.76	20.63		
	RB25#25	20.79	20.8	20.55		
	RB50#0	20.75	20.7	20.53		
15MHz QPSK	RB1#0	22.57	22.51	22.4	24.19	33
	RB1#38	22.68	22.62	22.5		
	RB1#74	22.52	22.42	22.35		
	RB36#0	21.79	21.7	21.64		
	RB36#39	21.84	21.72	21.55		
	RB75#0	21.78	21.71	21.56		
15MHz 16QAM	RB1#0	21.73	21.79	21.85	23.49	33
	RB1#38	21.79	21.98	21.89		
	RB1#74	21.65	21.82	21.82		
	RB36#0	20.7	20.59	20.59		
	RB36#39	20.81	20.63	20.51		
	RB75#0	20.74	20.67	20.6		

20MHz QPSK	RB1#0	22.4	22.37	22.21	24.32	33
	RB1#50	22.81	22.78	22.63		
	RB1#99	22.36	22.34	22.18		
	RB50#0	21.57	21.59	21.51		
	RB50#50	21.69	21.67	21.38		
	RB100#0	21.64	21.63	21.47		
20MHz 16QAM	RB1#0	21.68	21.52	21.7	23.56	33
	RB1#50	22.05	21.94	22.02		
	RB1#99	21.63	21.49	21.63		
	RB50#0	20.54	20.58	20.52		
	RB50#50	20.66	20.66	20.43		
	RB100#0	20.64	20.63	20.49		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	4.2	4.46	3.77	13
	RB100#0	4.72	5.01	4.72	13
20MHz 16QAM	RB1#0	5.04	5.45	4.64	13
	RB100#0	5.68	5.97	5.68	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
5MHz QPSK	4.491	4.531	4.511	4.92	4.94	4.94
5MHz 16QAM	4.511	4.491	4.511	4.96	4.94	4.96
10MHz QPSK	8.982	8.942	8.942	9.64	9.64	9.6
10MHz 16QAM	8.942	8.942	8.942	9.64	9.68	9.8
15MHz QPSK	13.473	13.473	13.533	14.7	14.88	14.82
15MHz 16QAM	13.473	13.533	13.533	14.7	14.76	14.7
20MHz QPSK	17.964	17.964	17.964	19.28	19.28	19.44
20MHz 16QAM	18.044	17.964	17.964	19.36	19.44	19.36

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

### Spurious Emissions at Antenna Terminal

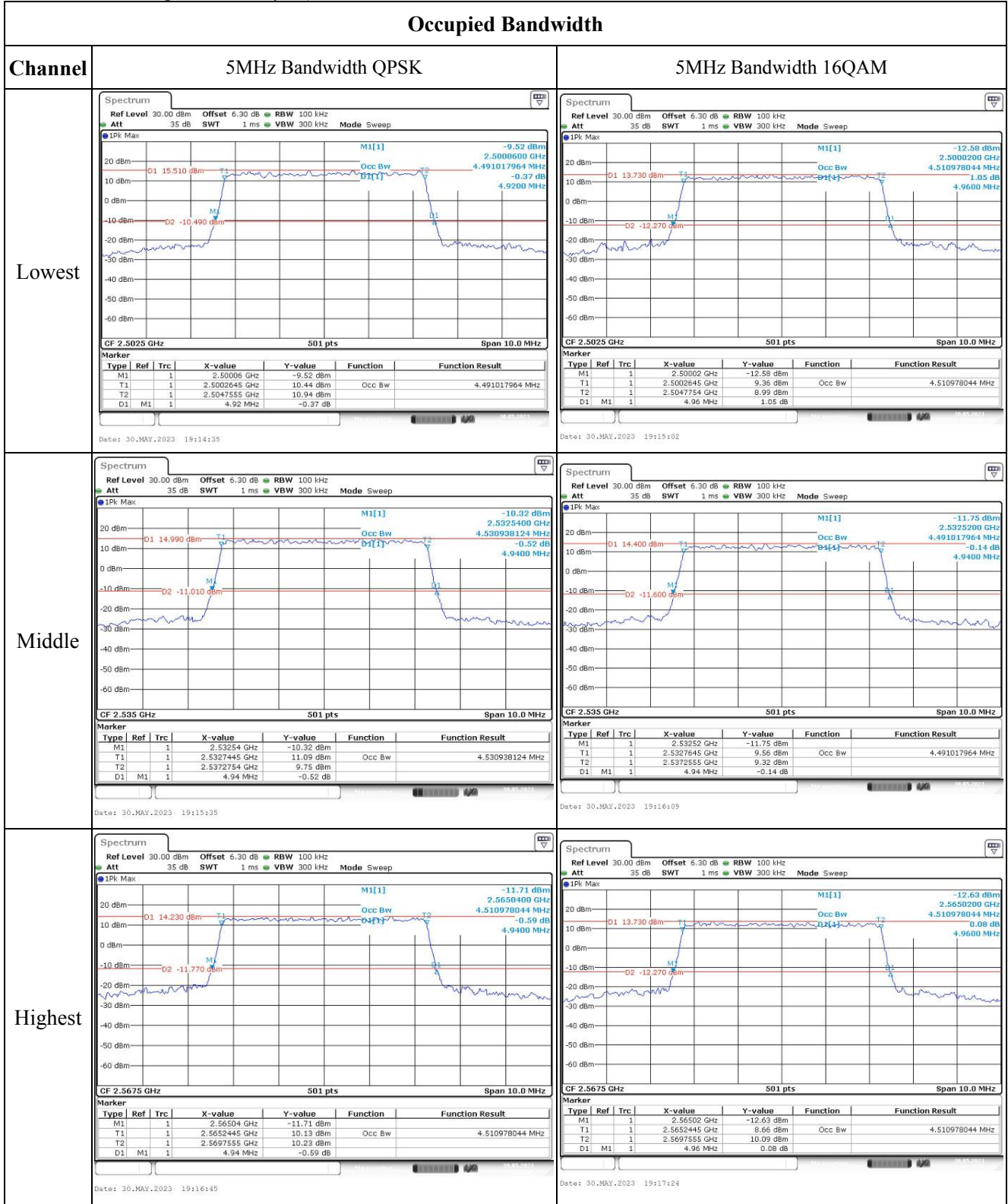
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>
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**Out of band emission, Band Edge****Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.****Frequency Stability**

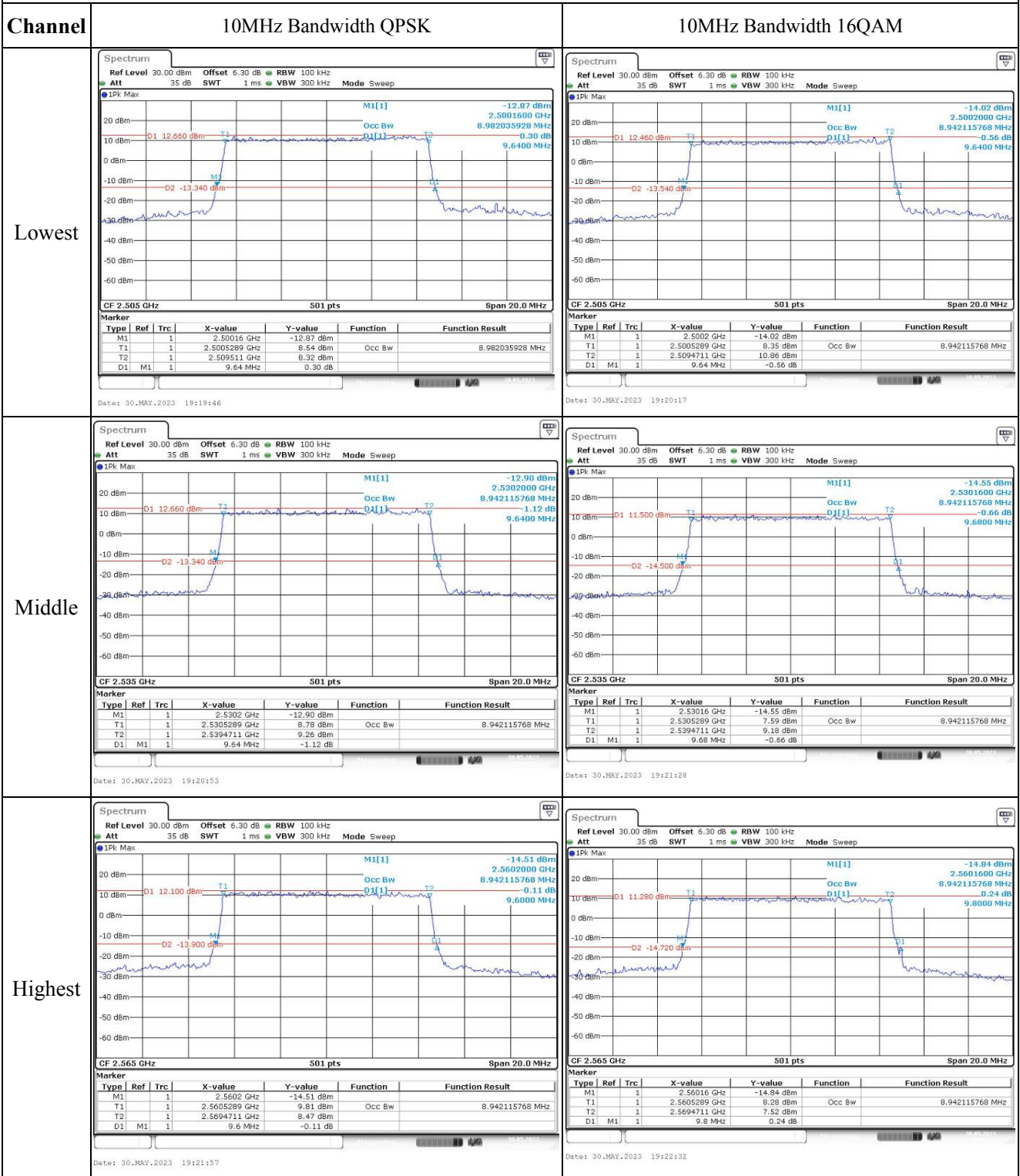
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2501.078	2500.00	2569.098	2570
	-20	3.87	2501.046	2500.00	2569.088	2570
	-10	3.87	2501.060	2500.00	2569.040	2570
	0	3.87	2501.057	2500.00	2569.095	2570
	10	3.87	2501.043	2500.00	2569.042	2570
	20	3.87	2501.058	2500.00	2569.022	2570
	30	3.87	2501.011	2500.00	2569.013	2570
	40	3.87	2501.068	2500.00	2569.063	2570
Frequency Stability vs. Voltage	20	3.47	2501.057	2500.00	2569.033	2570
	20	4.45	2501.006	2500.00	2569.092	2570
					<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	3.87	2501.001	2500.00	2569.072	2570
	-20	3.87	2501.028	2500.00	2569.065	2570
	-10	3.87	2501.029	2500.00	2569.095	2570
	0	3.87	2501.085	2500.00	2569.054	2570
	10	3.87	2501.065	2500.00	2569.047	2570
	20	3.87	2501.058	2500.00	2569.022	2570
	30	3.87	2501.026	2500.00	2569.085	2570
	40	3.87	2501.093	2500.00	2569.038	2570
Frequency Stability vs. Voltage	20	3.47	2501.084	2500.00	2569.008	2570
	20	4.45	2501.087	2500.00	2569.007	2570
					<b>Result:</b>	<b>Pass</b>

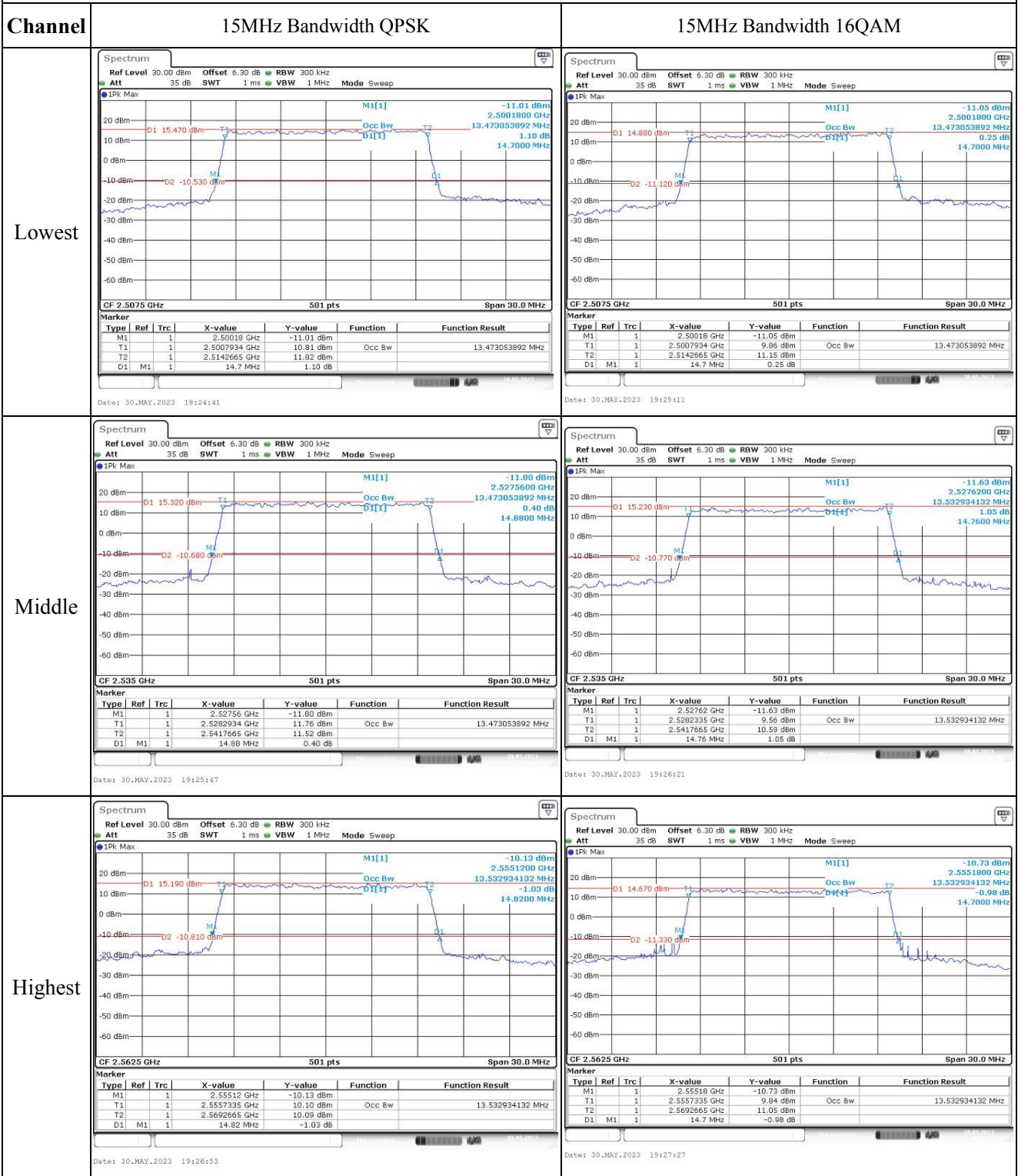
**Test Plots**(Note: The 6.3dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer):



### Occupied Bandwidth



Occupied Bandwidth

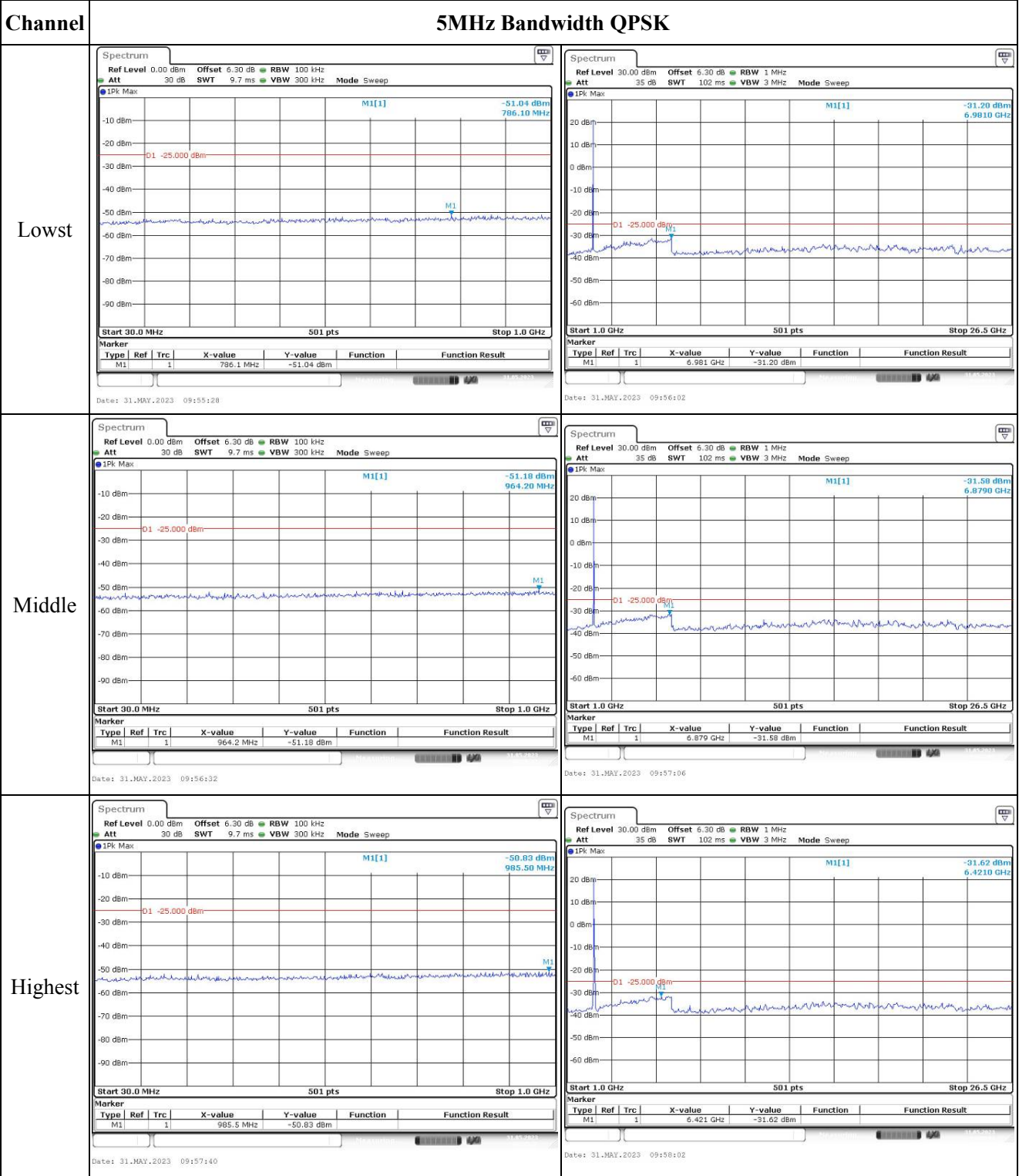




Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM																																																																						
Lowest	<p>Ref Level 30.00 dBm Offset 5.30 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -11.60 dBm 2.5004000 GHz Occ Bw 17.964071856 MHz -0.19 dB 19.2800 MHz</p> <p>D1 14.960 dBm D2 -11.040 dBm</p> <p>CF 2.51 GHz 501 pts Span 40.0 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>2.5004 GHz</td> <td>-11.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.5010579 GHz</td> <td>10.90 dBm</td> <td>Occ Bw</td> <td>17.964071856 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.519022 GHz</td> <td>10.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.28 MHz</td> <td>-0.19 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 19:29:11</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.5004 GHz	-11.60 dBm			T1	1		2.5010579 GHz	10.90 dBm	Occ Bw	17.964071856 MHz	T2	1		2.519022 GHz	10.88 dBm			D1	M1	1	19.28 MHz	-0.19 dB			<p>Ref Level 30.00 dBm Offset 5.30 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -11.83 dBm 2.5004000 GHz Occ Bw 18.043912176 MHz -0.79 dB 19.3600 MHz</p> <p>D1 13.480 dBm D2 -12.520 dBm</p> <p>CF 2.51 GHz 501 pts Span 40.0 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>2.5004 GHz</td> <td>-11.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.5010579 GHz</td> <td>9.17 dBm</td> <td>Occ Bw</td> <td>18.043912176 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.5191018 GHz</td> <td>10.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>19.36 MHz</td> <td>-0.79 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 19:29:46</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.5004 GHz	-11.83 dBm			T1	1		2.5010579 GHz	9.17 dBm	Occ Bw	18.043912176 MHz	T2	1		2.5191018 GHz	10.05 dBm			D1	M1	1	19.36 MHz	-0.79 dB		
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### Spurious Emissions at Antenna Terminal

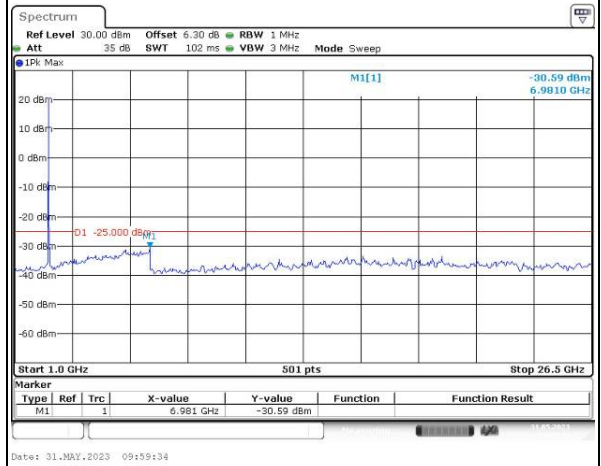
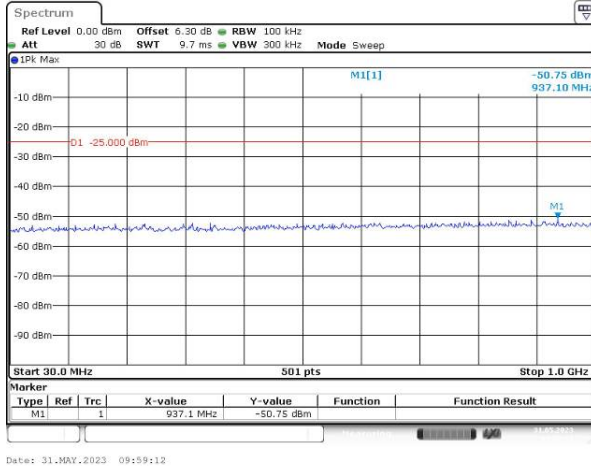


Spurious Emissions at Antenna Terminal

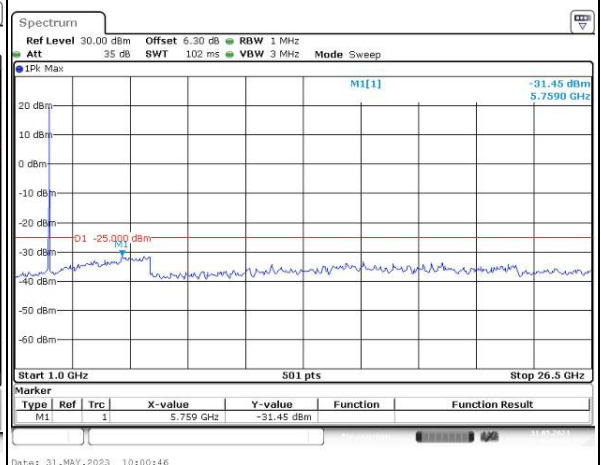
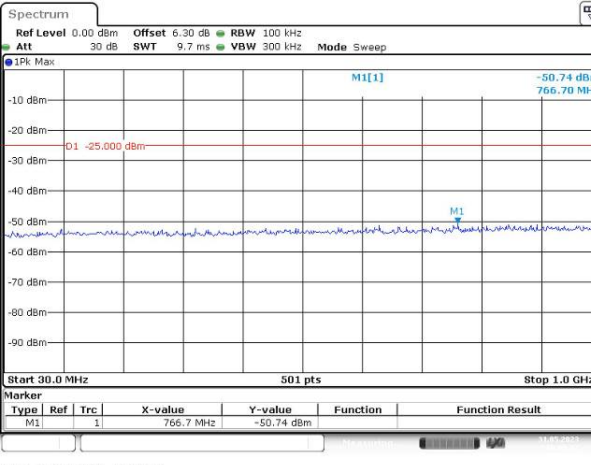
Channel

10MHz Bandwidth QPSK

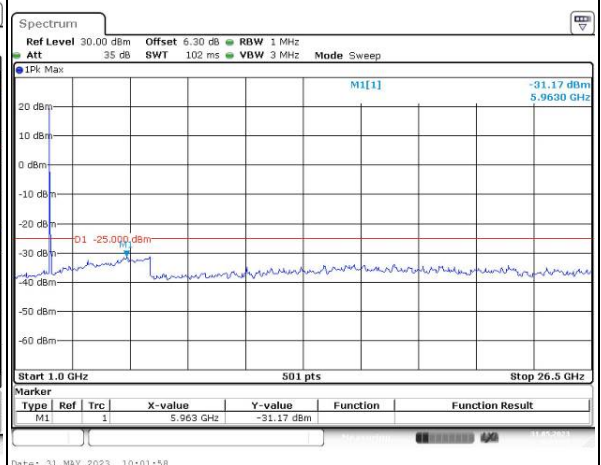
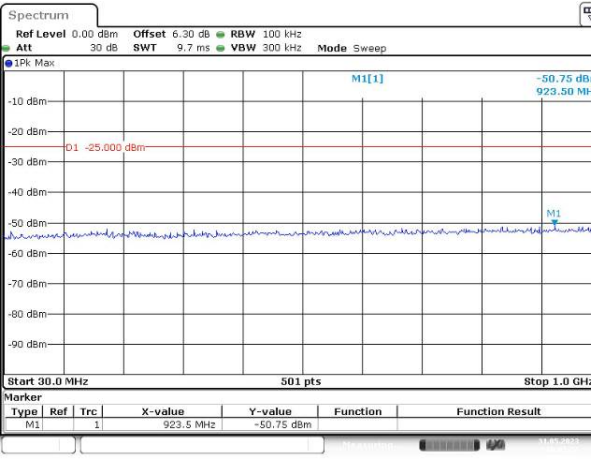
Lowest



Middle



Highest

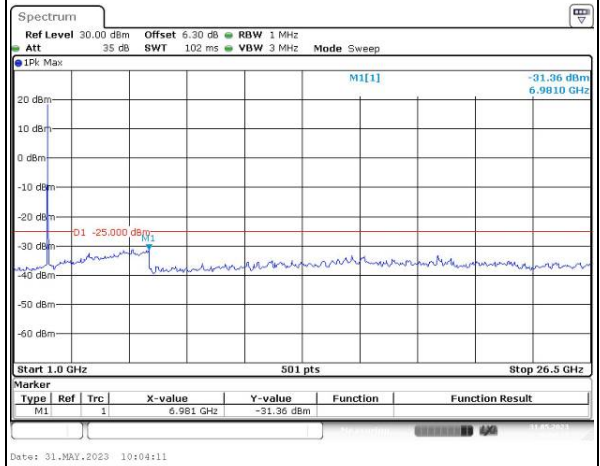
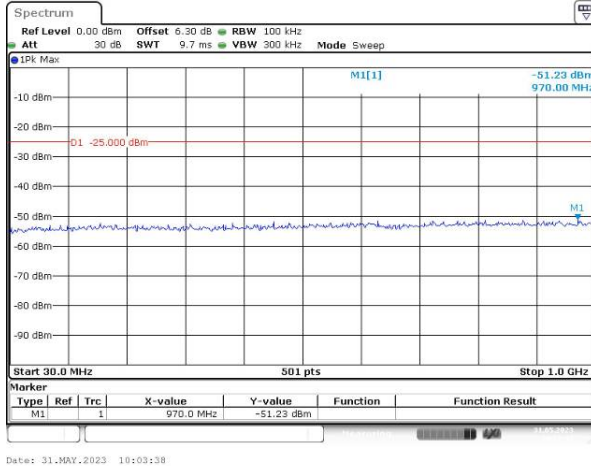


### Spurious Emissions at Antenna Terminal

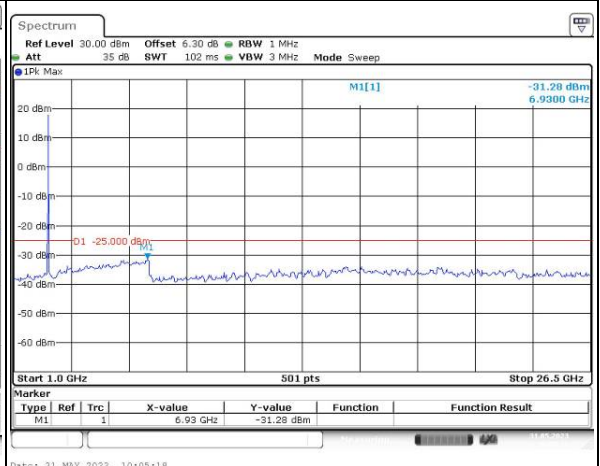
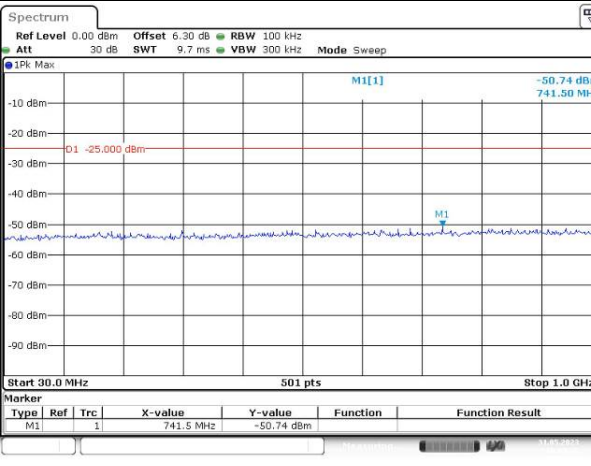
Channel

15MHz Bandwidth QPSK

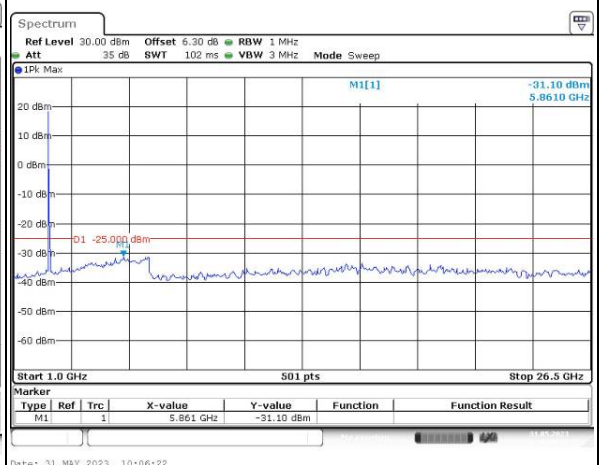
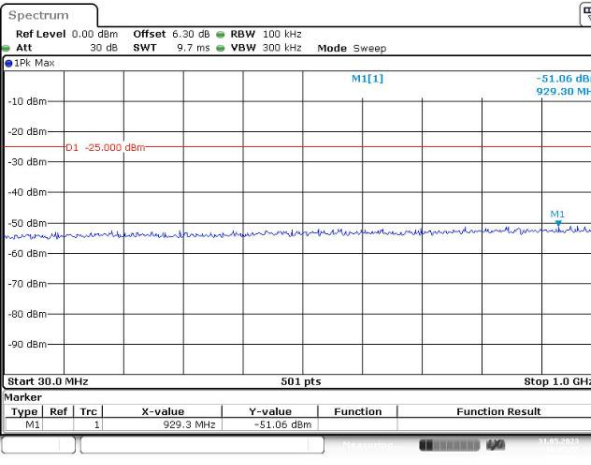
Lowest



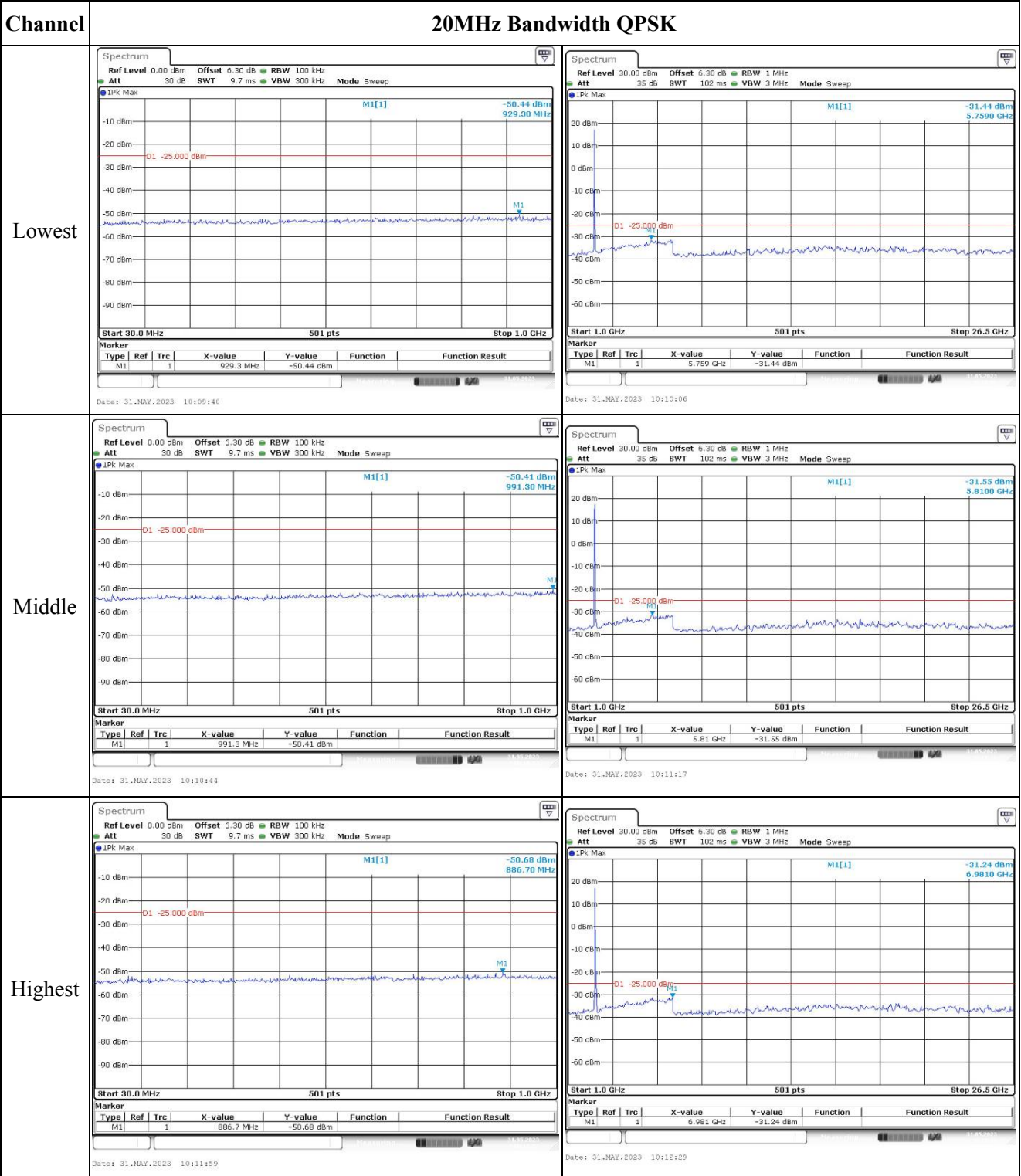
Middle



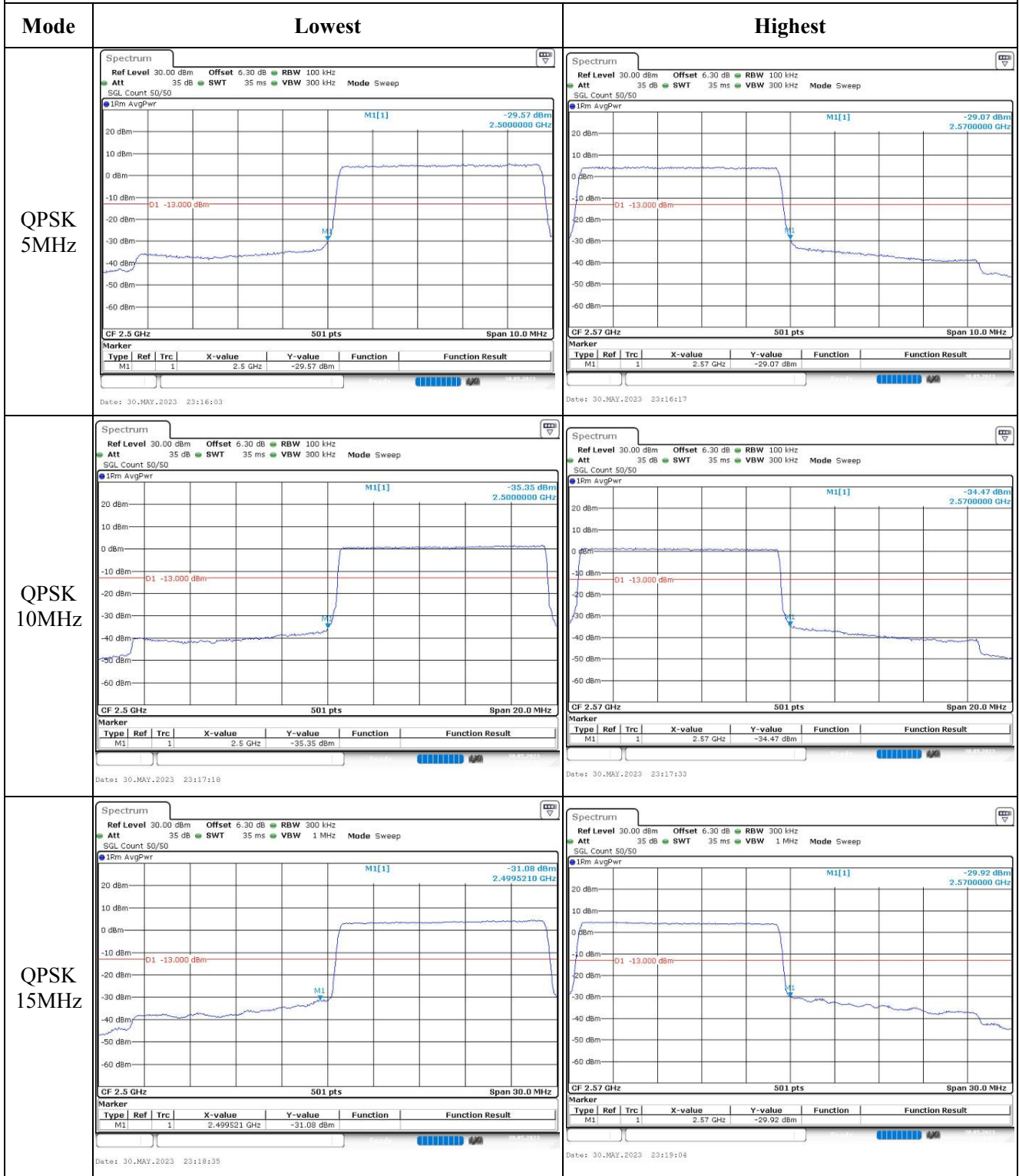
Highest



### Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge



Out of band emission, Band Edge

