

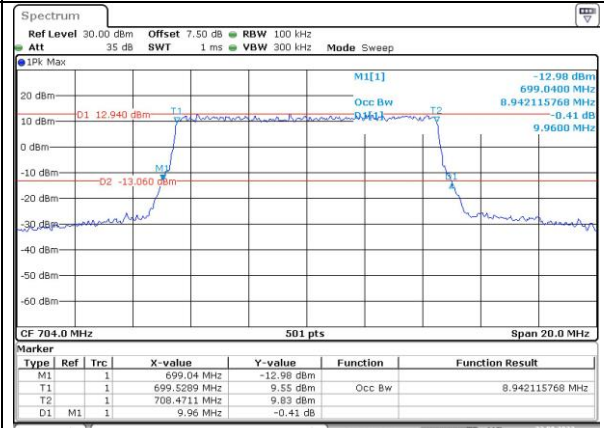
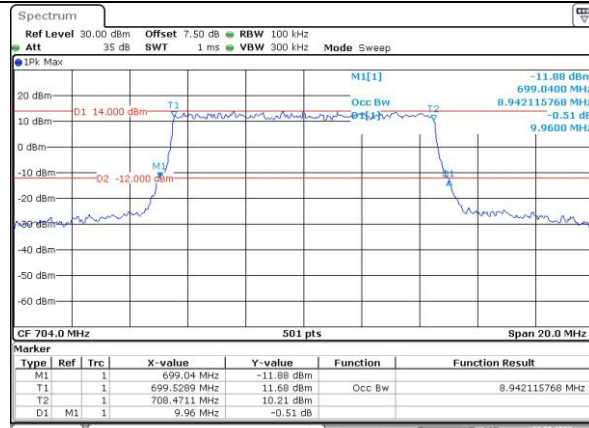
### Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

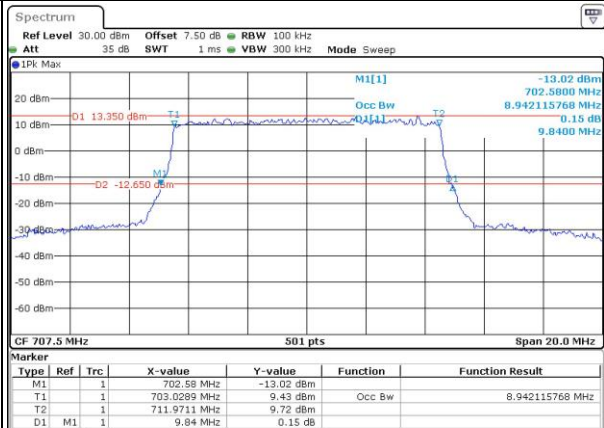
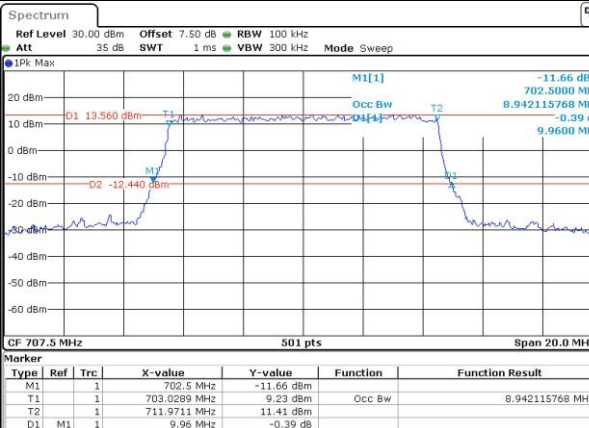
Lowest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:49:14

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:49:53

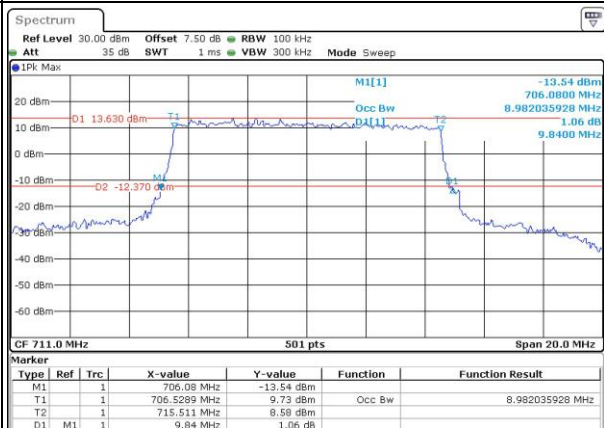
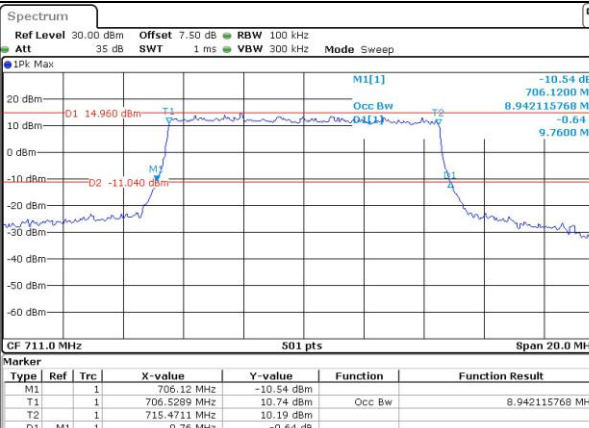
Middle



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:50:34

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:51:13

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:52:01

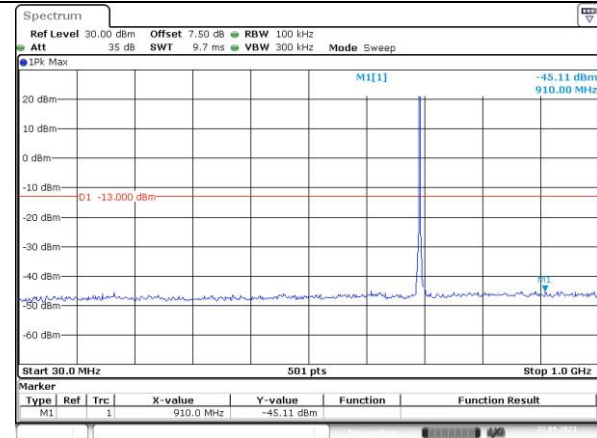
ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 01:52:44

### Spurious Emissions at Antenna Terminal

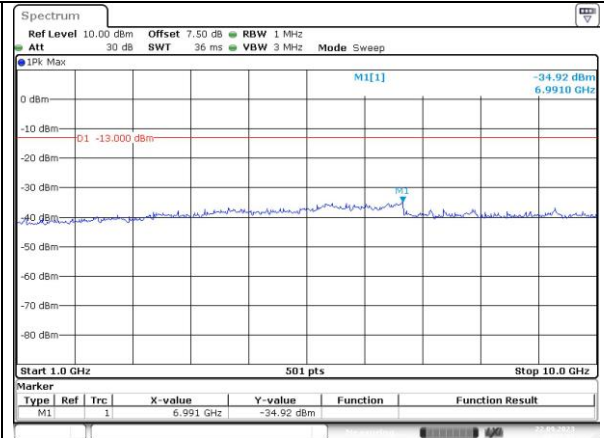
Channel

1.4MHz Bandwidth QPSK

Lowest

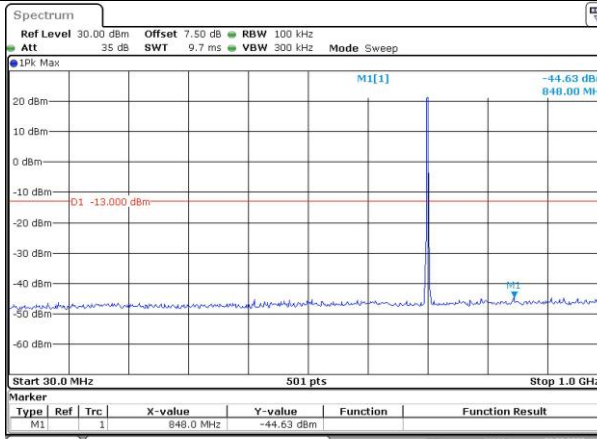


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Date: 22.SEP.2023 03:57:25

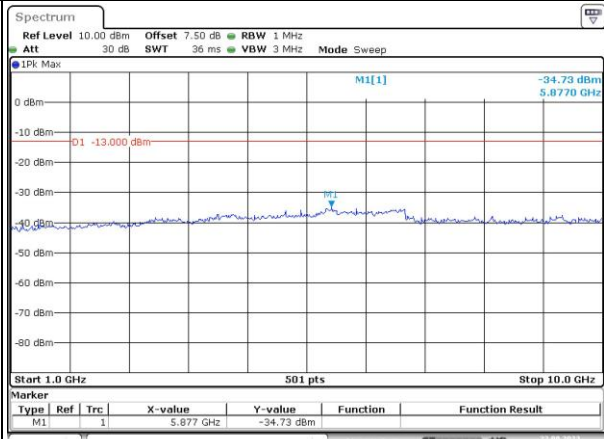


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 03:57:59

Middle

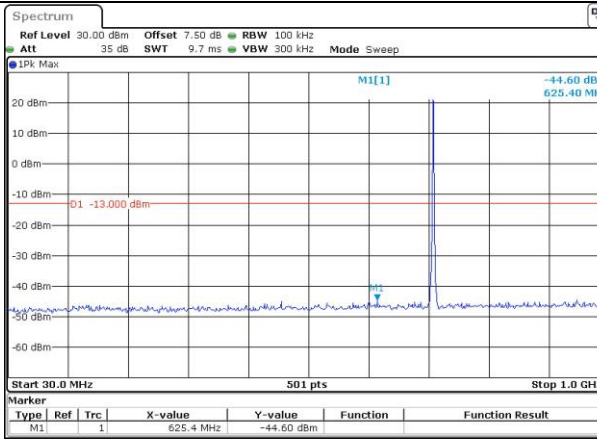


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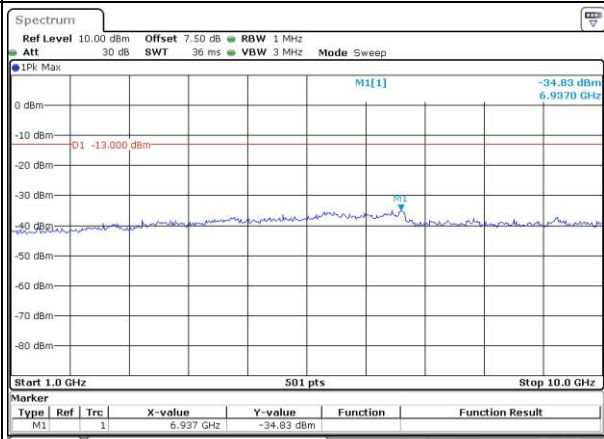


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 03:59:09

Highest



ProjectNo.:CR230745207 Tester:One Luo  
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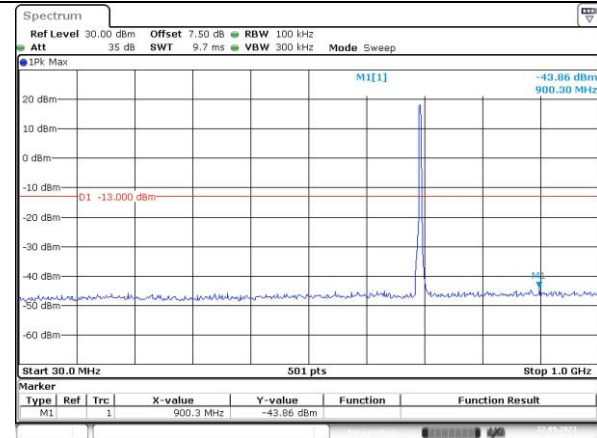
ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:00:08

### Spurious Emissions at Antenna Terminal

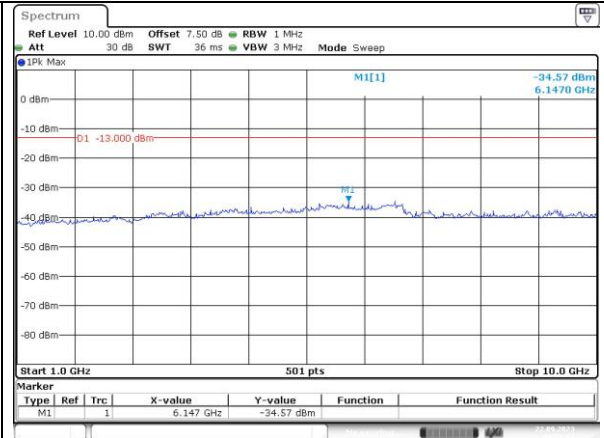
Channel

3MHz Bandwidth QPSK

Lowest

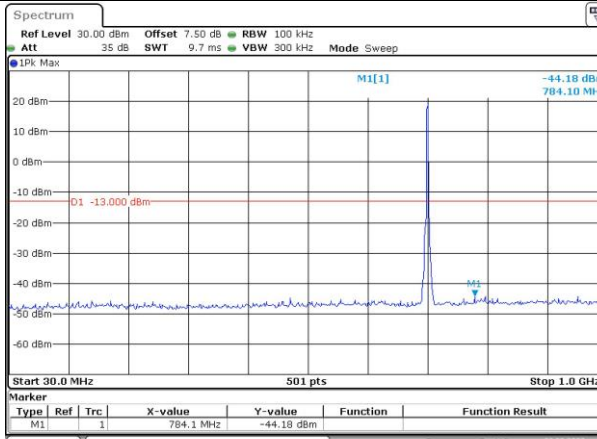


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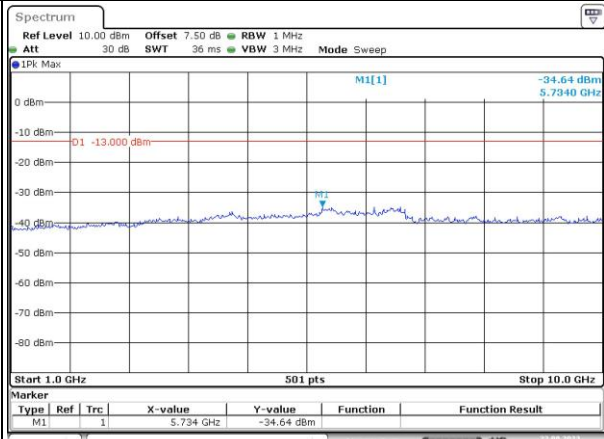


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:01:58

Middle

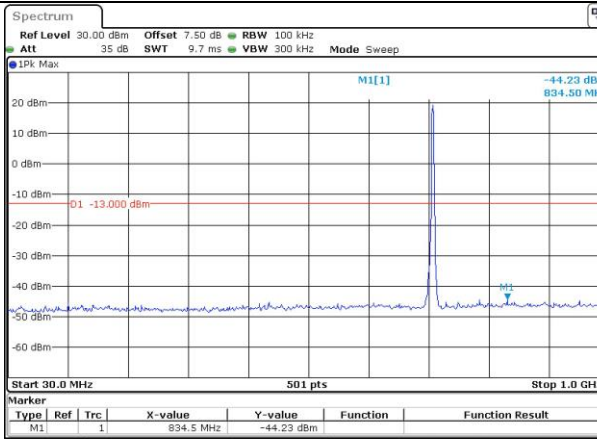


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:02:34

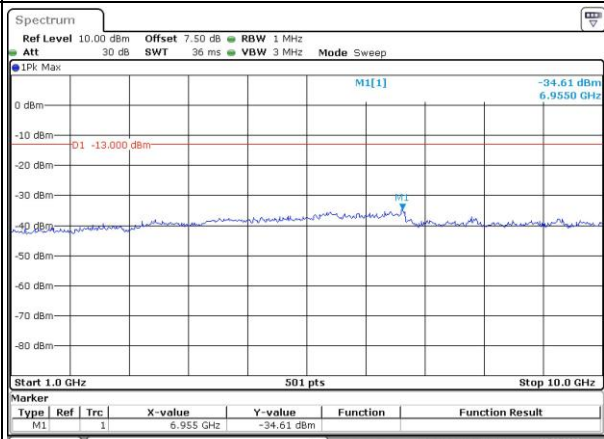


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:03:08

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:03:45



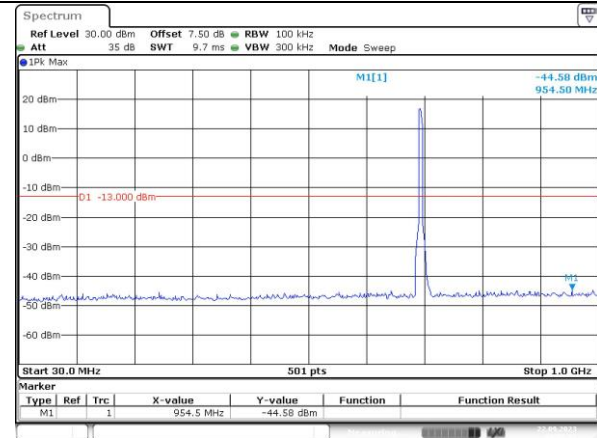
ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:04:11

### Spurious Emissions at Antenna Terminal

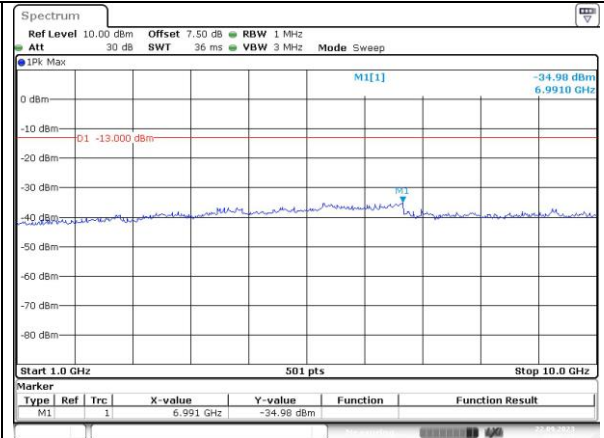
Channel

5MHz Bandwidth QPSK

Lowest

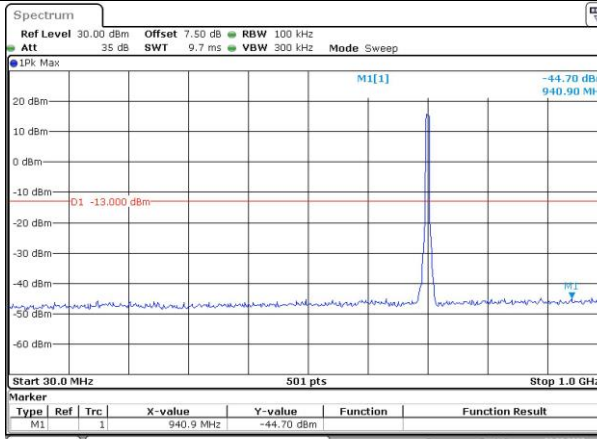


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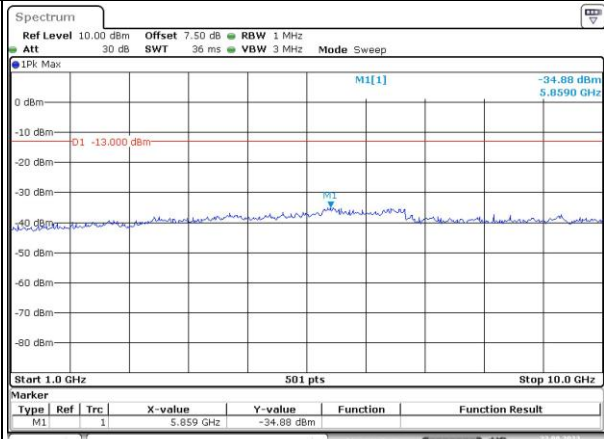


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Date: 22.SEP.2023 04:10:25

Middle

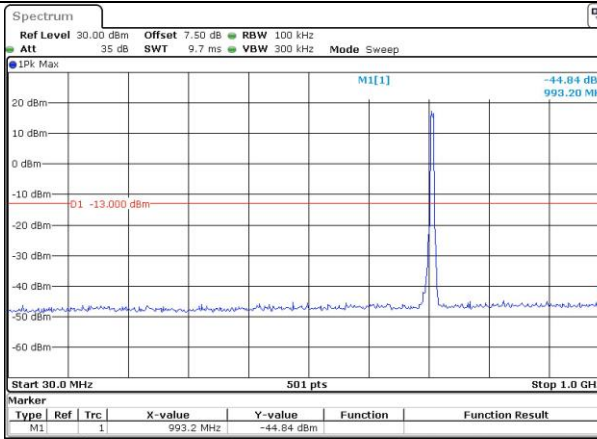


ProjectNo.:CR230745207 Tester:One Luo  
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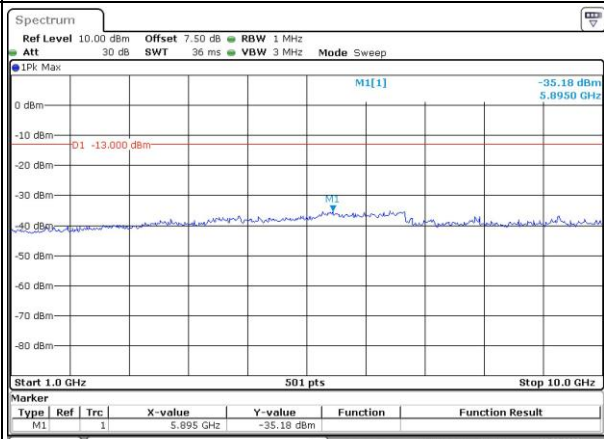


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:07:39

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:08:12



ProjectNo.:CR230745207 Tester:One Luo  
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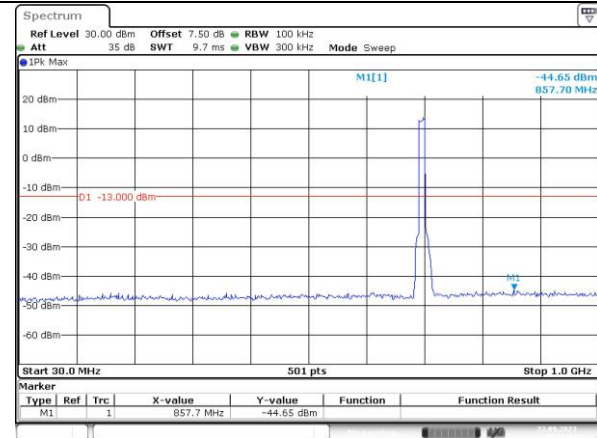


### Spurious Emissions at Antenna Terminal

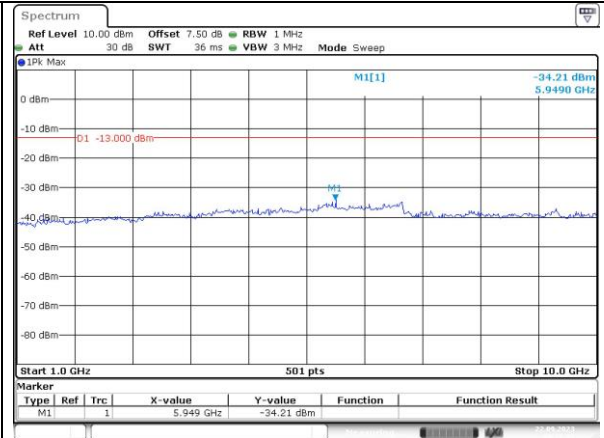
Channel

10MHz Bandwidth QPSK

Lowest

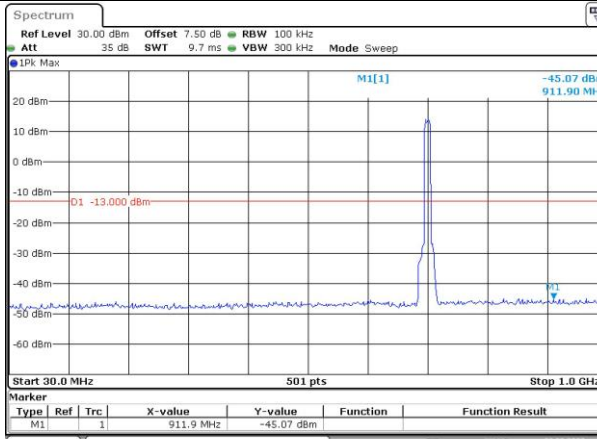


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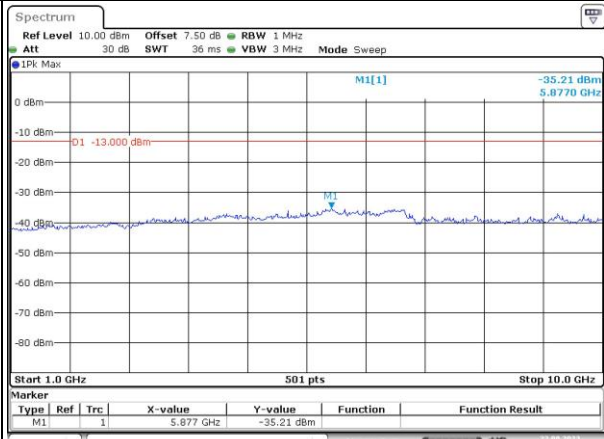


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:11:38

Middle

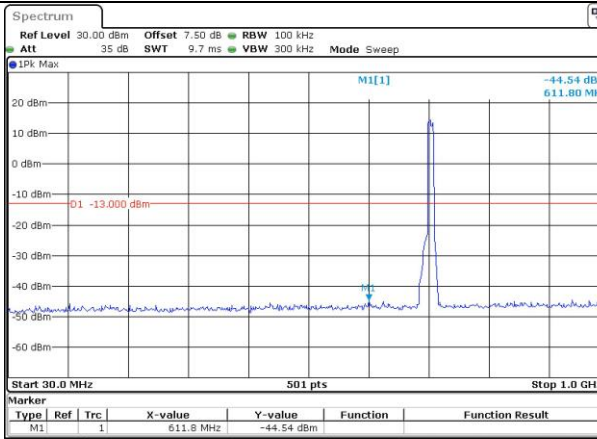


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:11:16

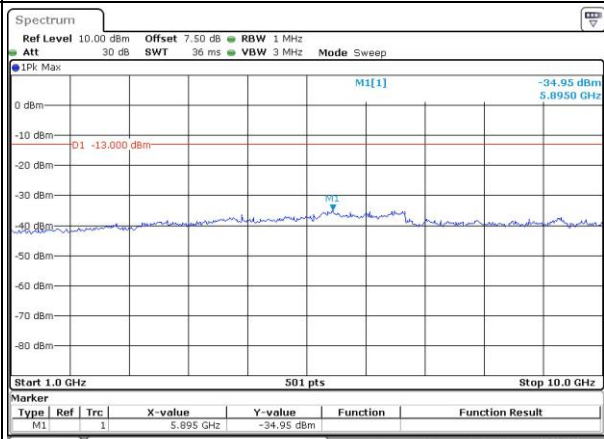


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:11:42

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:12:11

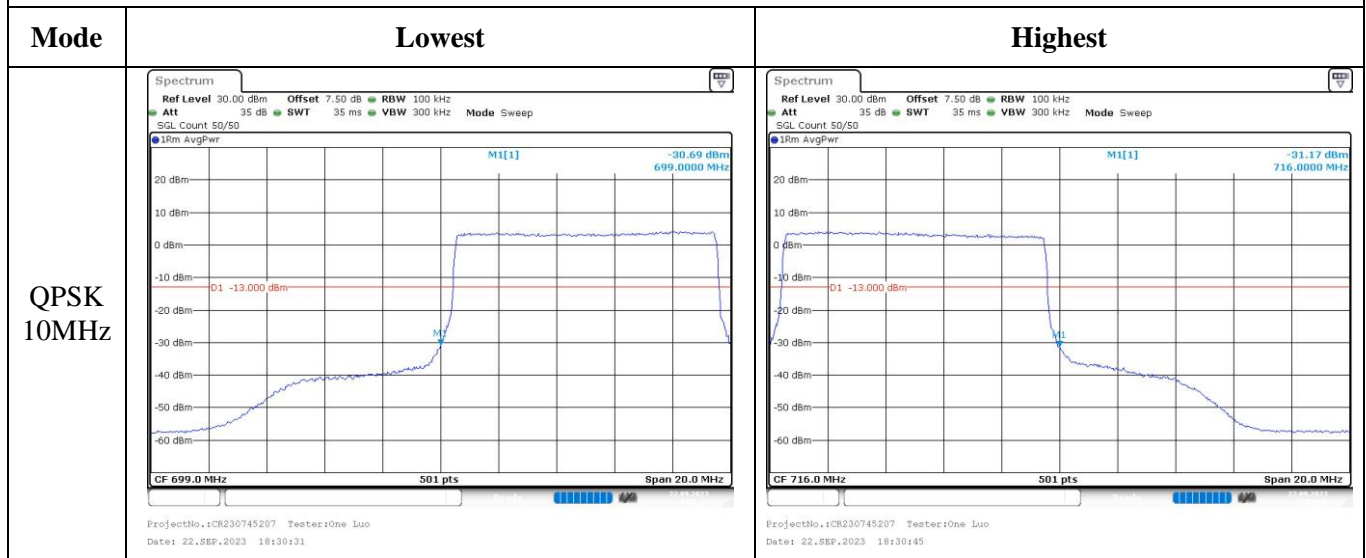


ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:12:45

Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:27:09</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:27:21</p>
<p>QPSK 3MHz</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:28:13</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:28:26</p>
<p>QPSK 5MHz</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:29:24</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:29:38</p>

Out of band emission, Band Edge

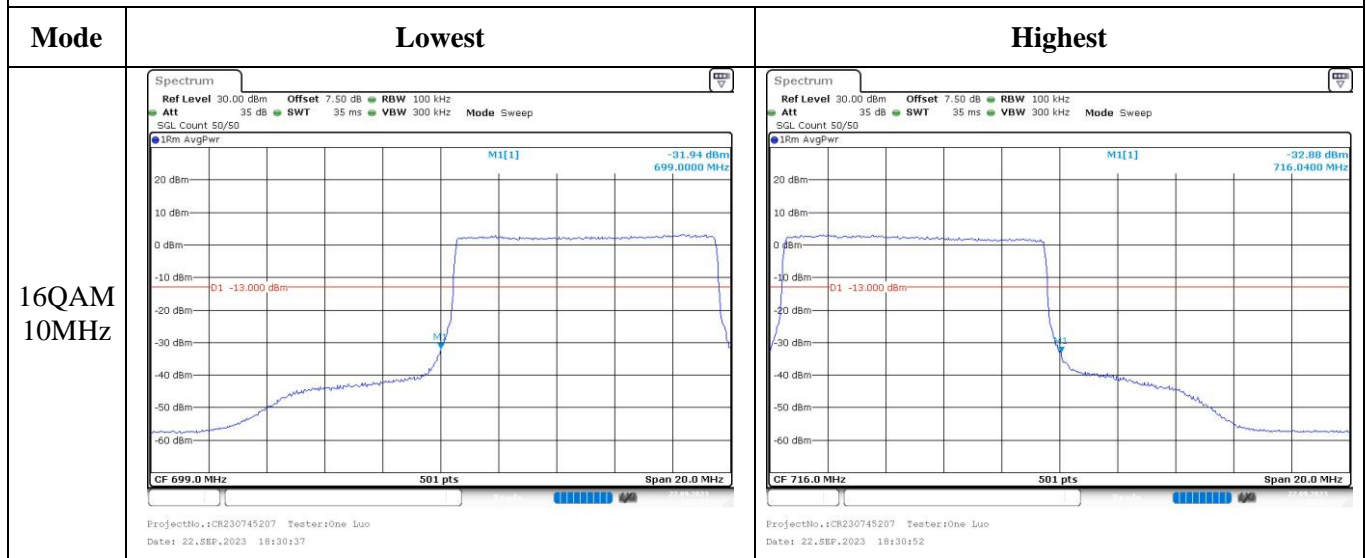


Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:27:14</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:27:27</p>
16QAM 3MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:28:19</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:28:31</p>
16QAM 5MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:29:31</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:29:44</p>



Out of band emission, Band Edge



**4.8 Antenna Port Test Data and Results for LTE Band 13**

Serial Number:	29L3-1	Test Date:	2023/9/8~2023/9/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	26.3~28.2	Relative Humidity: (%)	42~52	ATM Pressure: (kPa)	99.7~100.4
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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	2023/7/15	2024/7/14
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
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/7/15	2024/7/14
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
Weinschel	Power Splitter	1515	RA914	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).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	779.5	/	784.5
10MHz	/	782	/

**Test Data:****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	23.39	/	23.63	16.01	34.77
	RB1#13	23.36	/	23.55		
	RB1#24	23.34	/	23.58		
	RB15#0	22.37	/	22.36		
	RB15#10	22.38	/	22.27		
	RB25#0	22.38	/	22.31		
5MHz 16QAM	RB1#0	22.73	/	22.28	15.11	34.77
	RB1#13	22.66	/	22.24		
	RB1#24	22.7	/	22.27		
	RB15#0	21.34	/	21.42		
	RB15#10	21.37	/	21.3		
	RB25#0	21.4	/	21.36		
10MHz QPSK	RB1#0	/	23.52	/	15.9	34.77
	RB1#25	/	23.43	/		
	RB1#49	/	23.43	/		
	RB25#0	/	22.35	/		
	RB25#25	/	22.28	/		
	RB50#0	/	22.35	/		
10MHz 16QAM	RB1#0	/	22.92	/	15.3	34.77
	RB1#25	/	22.84	/		
	RB1#49	/	22.81	/		
	RB25#0	/	21.4	/		
	RB25#25	/	21.31	/		
	RB50#0	/	21.33	/		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(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	/	4.84	/	13
	RB50#0	/	5.25	/	13
10MHz 16QAM	RB1#0	/	5.54	/	13
	RB50#0	/	6.17	/	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
5MHz QPSK	4.511	/	4.531	5.2	/	5.16
5MHz 16QAM	4.531	/	4.511	5.18	/	5.18
10MHz QPSK	/	8.982	/	/	10	/
10MHz 16QAM	/	8.942	/	/	9.76	/

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>

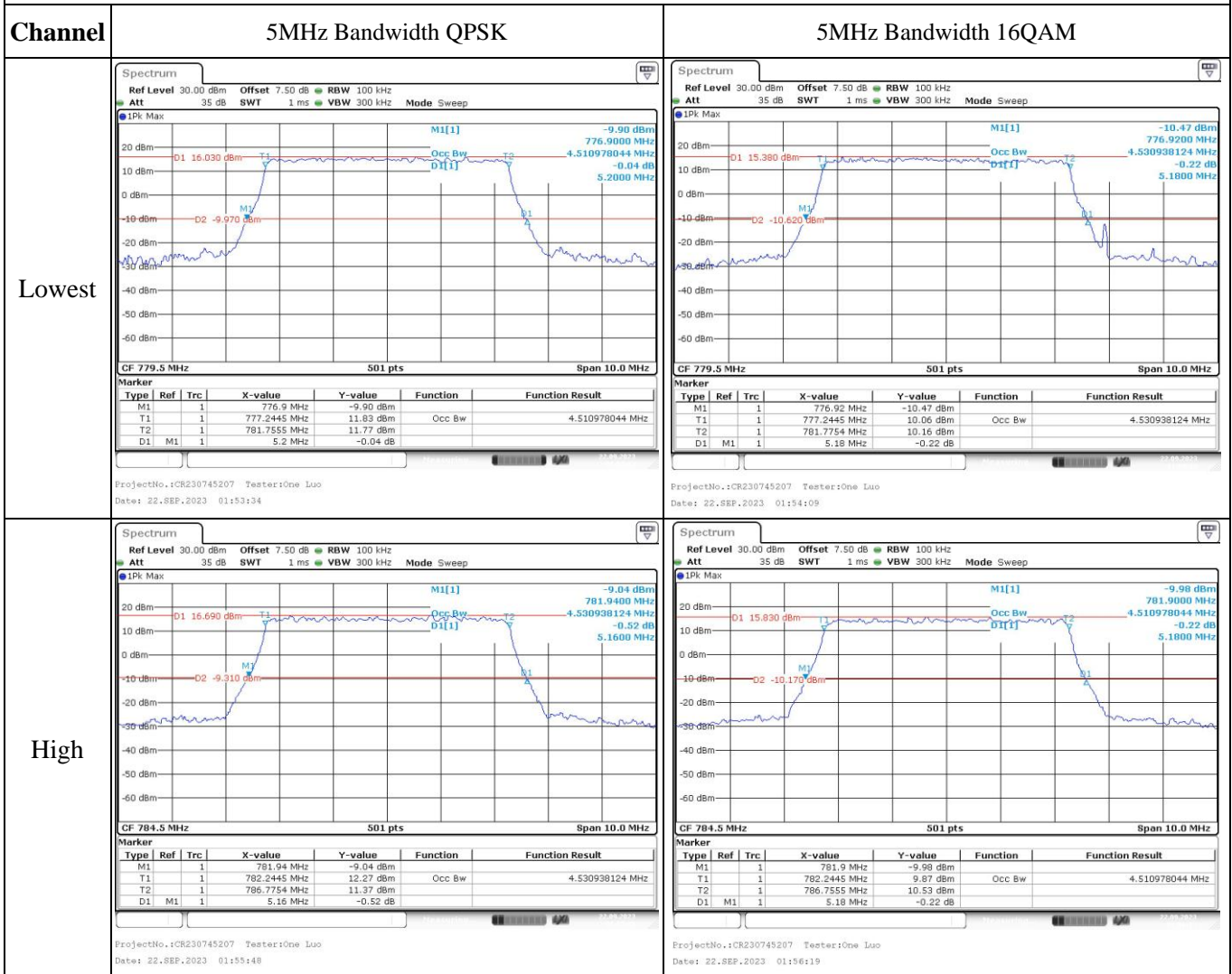
<b>Frequency Stability</b>						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>Dc</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	777.206	777.00	786.781	787.00
	-20	3.87	777.243	777.00	786.777	787.00
	-10	3.87	777.286	777.00	786.751	787.00
	0	3.87	777.233	777.00	786.761	787.00
	10	3.87	777.261	777.00	786.719	787.00
	20	3.87	777.245	777.00	786.775	787.00
	30	3.87	777.243	777.00	786.715	787.00
	40	3.87	777.228	777.00	786.702	787.00
Frequency Stability vs. Voltage	20	3.2	777.298	777.00	786.738	787.00
	20	4.45	777.264	777.00	786.800	787.00
					<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	3.87	777.297	777.00	786.733	787.00
	-20	3.87	777.274	777.00	786.742	787.00
	-10	3.87	777.263	777.00	786.772	787.00
	0	3.87	777.203	777.00	786.751	787.00
	10	3.87	777.213	777.00	786.777	787.00
	20	3.87	777.245	777.00	786.756	787.00
	30	3.87	777.203	777.00	786.782	787.00
	40	3.87	777.294	777.00	786.726	787.00
	50	3.87	777.234	777.00	786.741	787.00
Frequency Stability vs. Voltage	20	3.2	777.292	777.00	786.763	787.00
	20	4.45	777.272	777.00	786.753	787.00
					<b>Result:</b>	<b>Pass</b>

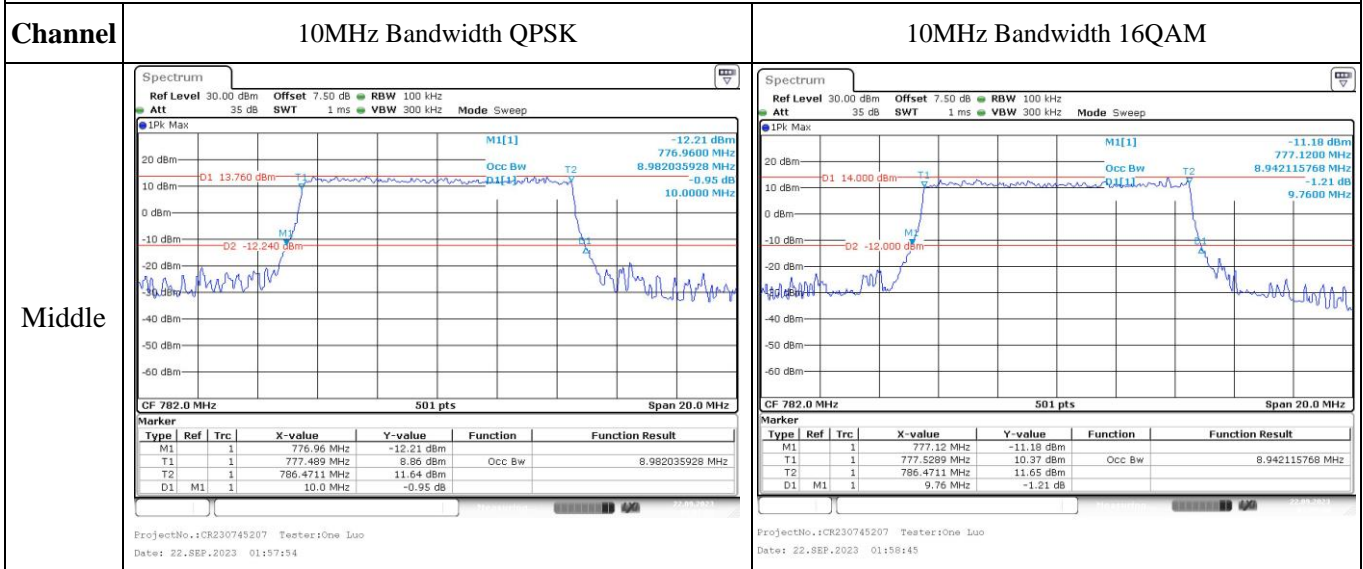


**Test Plots**(Note: The 7.5 dB is the Insertion loss of the RF cable, Power splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



### Occupied Bandwidth

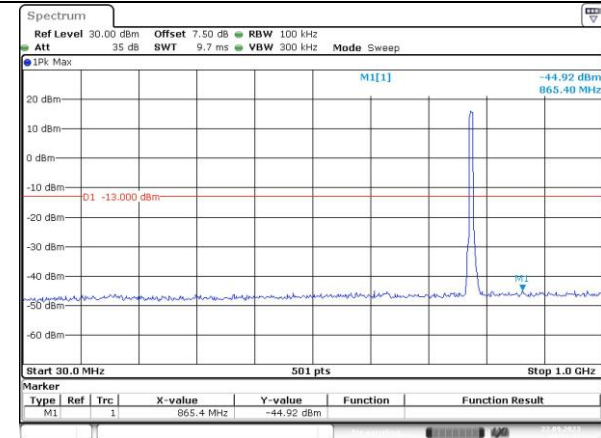


### Spurious Emissions at Antenna Terminal

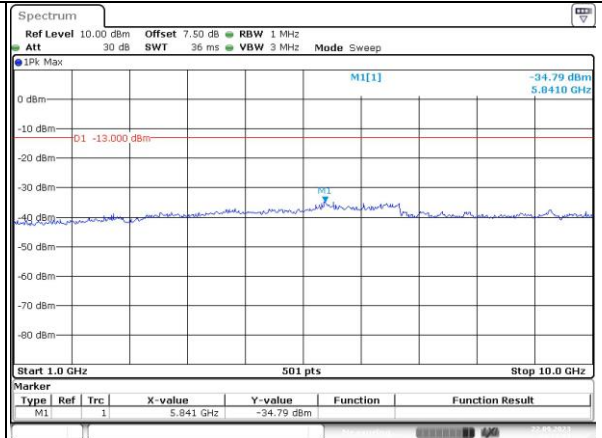
Channel

5MHz Bandwidth QPSK

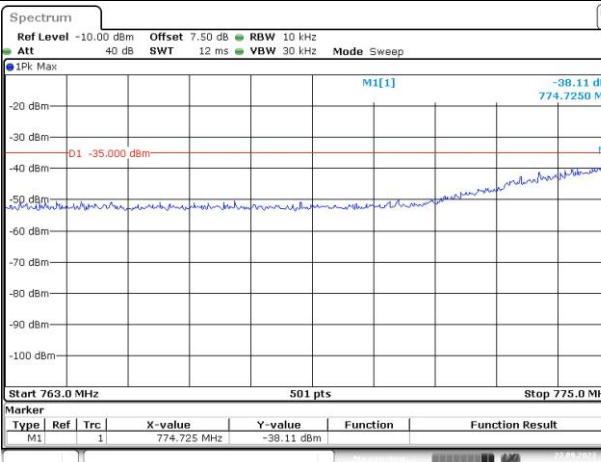
Low



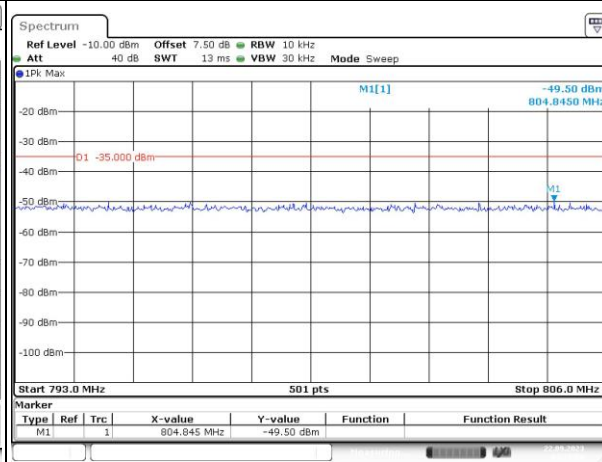
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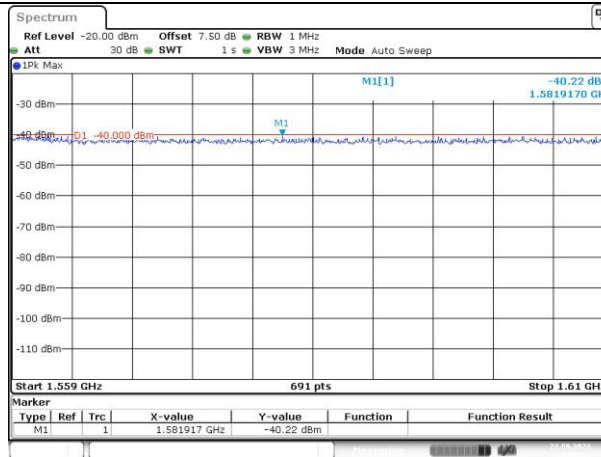
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ProjectNo.:CR230745207 Tester:One Luo  
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ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:15:09



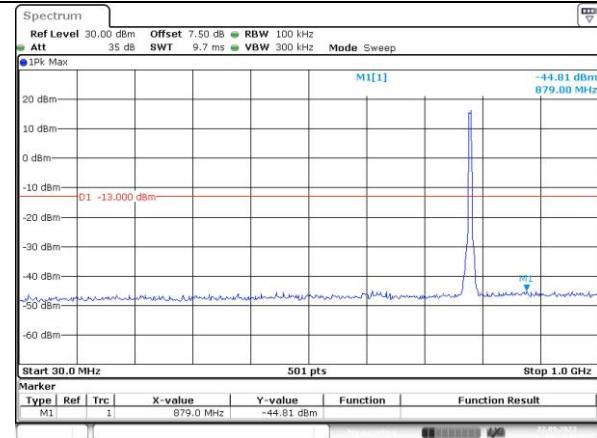
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Date: 22.SEP.2023 19:56:00

### Spurious Emissions at Antenna Terminal

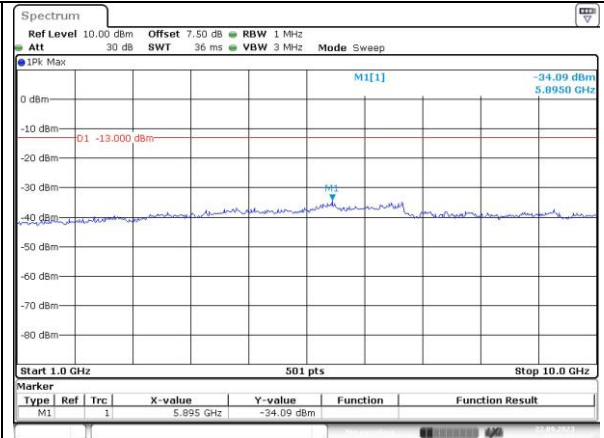
Channel

5MHz Bandwidth QPSK

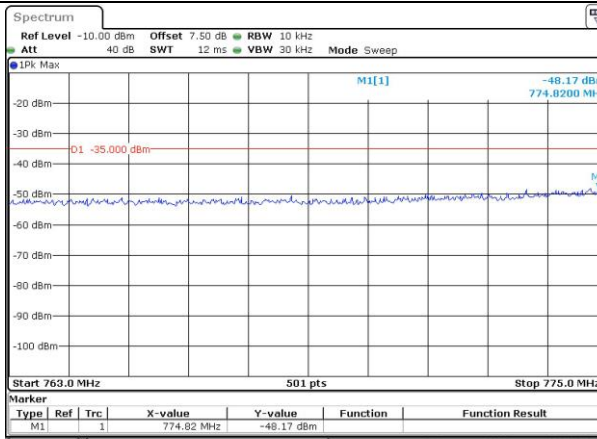
High



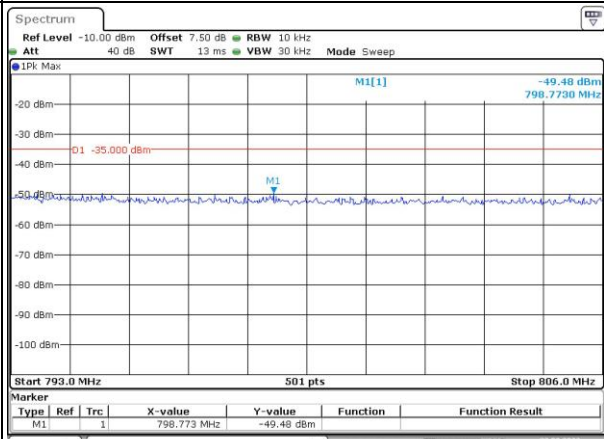
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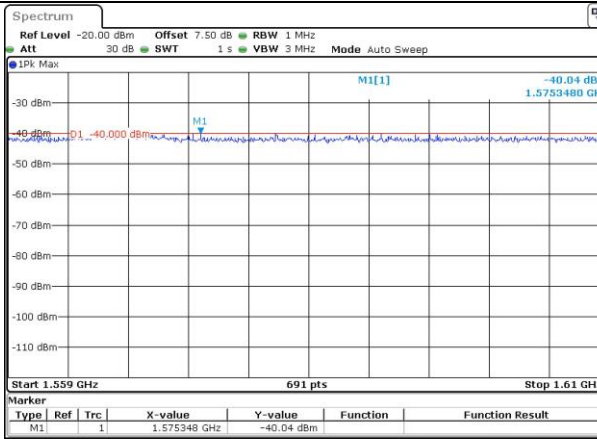
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Date: 22.SEP.2023 04:19:52



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:20:22



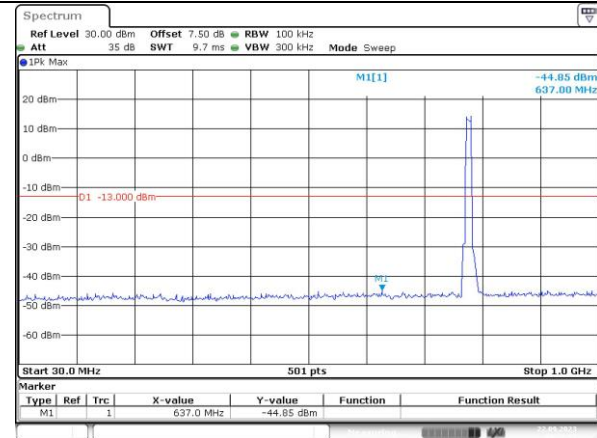
ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 20:02:59

### Spurious Emissions at Antenna Terminal

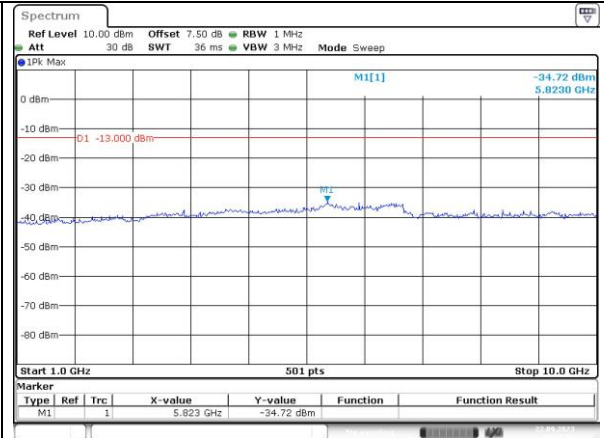
Channel

10MHz Bandwidth QPSK

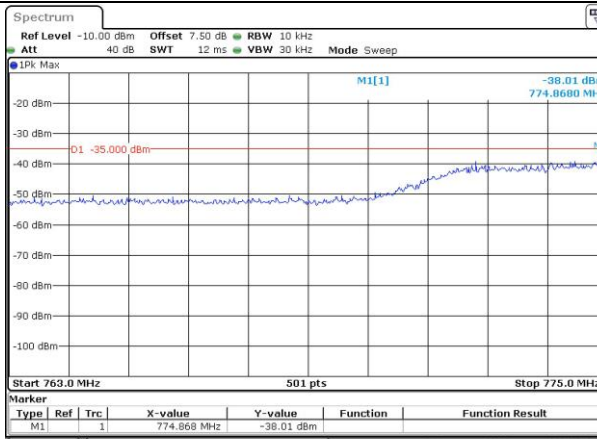
Middle



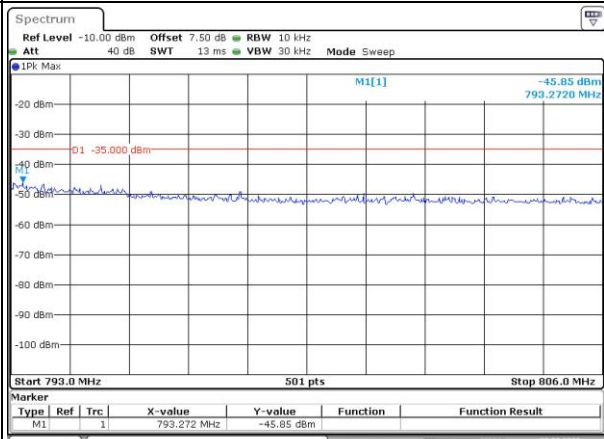
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Date: 22.SEP.2023 04:22:19



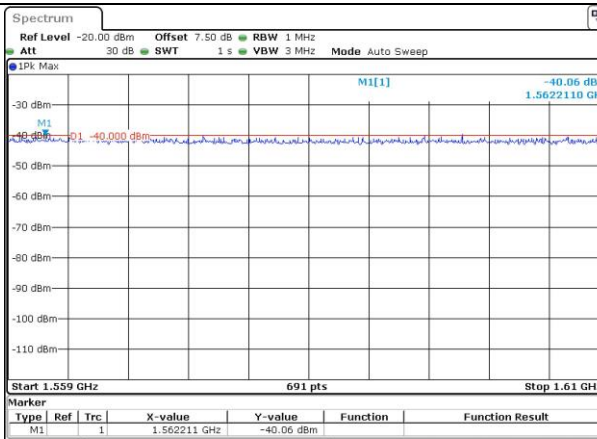
ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:22:57



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:23:34



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 04:24:08



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 20:04:02



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:31:05</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:31:18</p>
QPSK 10MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 19:23:05</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 19:22:18</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:31:12</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 18:31:24</p>
16QAM 10MHz	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 19:24:53</p>	<p>ProjectNo.:CR230745207 Tester:One Luo Date: 22.SEP.2023 19:21:53</p>

**4.9 Antenna Port Test Data and Results for LTE Band 41**

Serial Number:	29L3-1	Test Date:	2023/9/8~2023/10/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	26.3~28.2	Relative Humidity: (%)	42~52	ATM Pressure: (kPa)	99.7~101
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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	2023/7/15	2024/7/14
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
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/7/15	2024/7/14
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
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Weinschel	Power Splitter	1515	RA914	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).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency For FCC (MHz)	Lowest Frequency For RSS-199 (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2498.5	2502.5	2593	2687.5
10MHz	2501	2505	2593	2685
15MHz	2503.5	2507.5	2593	2682.5
20MHz	2506	2510	2593	2680

**Test Data:****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)				Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel For FCC	Lowest Channel For RSS-199	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.15	21.55	23.48	23.22	23.5	33
	RB1#13	23.13	21.72	23.48	23.22		
	RB1#24	23.14	21.64	23.44	23.29		
	RB15#0	23.21	20.6	23.48	23.03		
	RB15#10	23.17	20.61	23.43	23.03		
	RB25#0	23.15	20.6	23.42	22.97		
5MHz 16QAM	RB1#0	23.22	20.54	23.61	22.98	23.63	33
	RB1#13	23.19	20.75	23.59	22.98		
	RB1#24	23.2	20.67	23.57	23.02		
	RB15#0	23.27	19.66	23.52	22.99		
	RB15#10	23.23	19.68	23.47	22.99		
	RB25#0	23.27	19.7	23.44	23.05		
10MHz QPSK	RB1#0	23.2	21.66	23.37	22.88	23.5	33
	RB1#25	23.25	22.11	23.44	22.96		
	RB1#49	23.21	21.82	23.39	23.04		
	RB25#0	23.22	20.7	23.45	22.95		
	RB25#25	23.18	20.74	23.45	23.02		
	RB50#0	23.22	20.68	23.48	22.97		
10MHz 16QAM	RB1#0	23.38	20.68	23.3	23.12	23.58	33
	RB1#25	23.39	21.08	23.34	23.22		
	RB1#49	23.41	20.84	23.29	23.24		
	RB25#0	23.26	19.77	23.56	23.01		
	RB25#25	23.25	19.78	23.53	23.1		
	RB50#0	23.22	19.7	23.5	23		
15MHz QPSK	RB1#0	23.1	21.45	23.47	22.84	23.59	33
	RB1#38	23.13	21.75	23.57	22.95		
	RB1#74	23.11	21.67	23.49	23.04		
	RB36#0	23.12	20.63	23.45	22.84		
	RB36#39	23.14	20.73	23.42	22.93		
	RB75#0	23.15	20.7	23.42	22.92		
15MHz 16QAM	RB1#0	23.05	20.61	23.58	23	23.68	33
	RB1#38	23.08	20.9	23.66	23.1		
	RB1#74	23.03	20.84	23.64	23.22		
	RB36#0	23.16	19.66	23.54	22.89		
	RB36#39	23.19	19.76	23.53	22.9		
	RB75#0	23.18	19.68	23.46	22.88		
20MHz QPSK	RB1#0	23.09	21.45	23.3	22.77	23.5	33

	RB1#50	23.1	22.11	23.39	22.91		
	RB1#99	23.1	21.83	23.37	23.06		
	RB50#0	23.17	20.63	23.48	22.87		
	RB50#50	23.15	20.71	23.48	22.99		
	RB100#0	23.13	20.67	23.43	22.93		
20MHz 16QAM	RB1#0	23.19	20.65	23.37	23.19	23.57	33
	RB1#50	23.19	21.27	23.46	23.31		
	RB1#99	23.21	21	23.4	23.46		
	RB50#0	23.18	19.67	23.54	22.89		
	RB50#50	23.17	19.74	23.55	23.03		
	RB100#0	23.15	19.68	23.46	22.89		

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 For FCC	Lowest Channel For RSS-199	Middle Channel	Highest Channel		
10MHz QPSK	RB1#0	8.9	8.35	7.83	8.03	13	
	RB50#0	9.07	9.07	8.67	8.84	13	
10MHz 16QAM	RB1#0	9.74	8.93	8.87	9.04	13	
	RB50#0	9.88	9.33	9.54	9.74	13	
						<b>Result:</b>	<b>Pass</b>

### Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)				26 dB Occupied Bandwidth (MHz)			
	Lowest Channel For FCC	Lowest Channel For RSS-199	Middle channel	High Channel	Lowest Channel For FCC	Lowest Channel For RSS-199	Middle Channel	High Channel
5MHz QPSK	4.491	4.511	4.511	4.511	4.940	4.940	5.040	5.140
5MHz 16QAM	4.511	4.491	4.511	4.511	5.100	5.060	5.100	5.040
10MHz QPSK	8.942	8.942	8.942	8.942	9.880	9.640	9.720	9.720
10MHz 16QAM	8.942	8.942	8.942	8.942	9.880	9.880	9.520	9.480
15MHz QPSK	13.533	13.473	13.473	13.473	15.840	15.420	15.240	15.480
15MHz 16QAM	13.533	13.533	13.533	13.533	15.720	16.860	15.540	16.200
20MHz QPSK	17.884	17.884	17.964	17.884	19.920	19.920	19.920	19.200
20MHz 16QAM	17.884	17.884	17.884	17.964	19.600	19.600	19.920	20.640

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



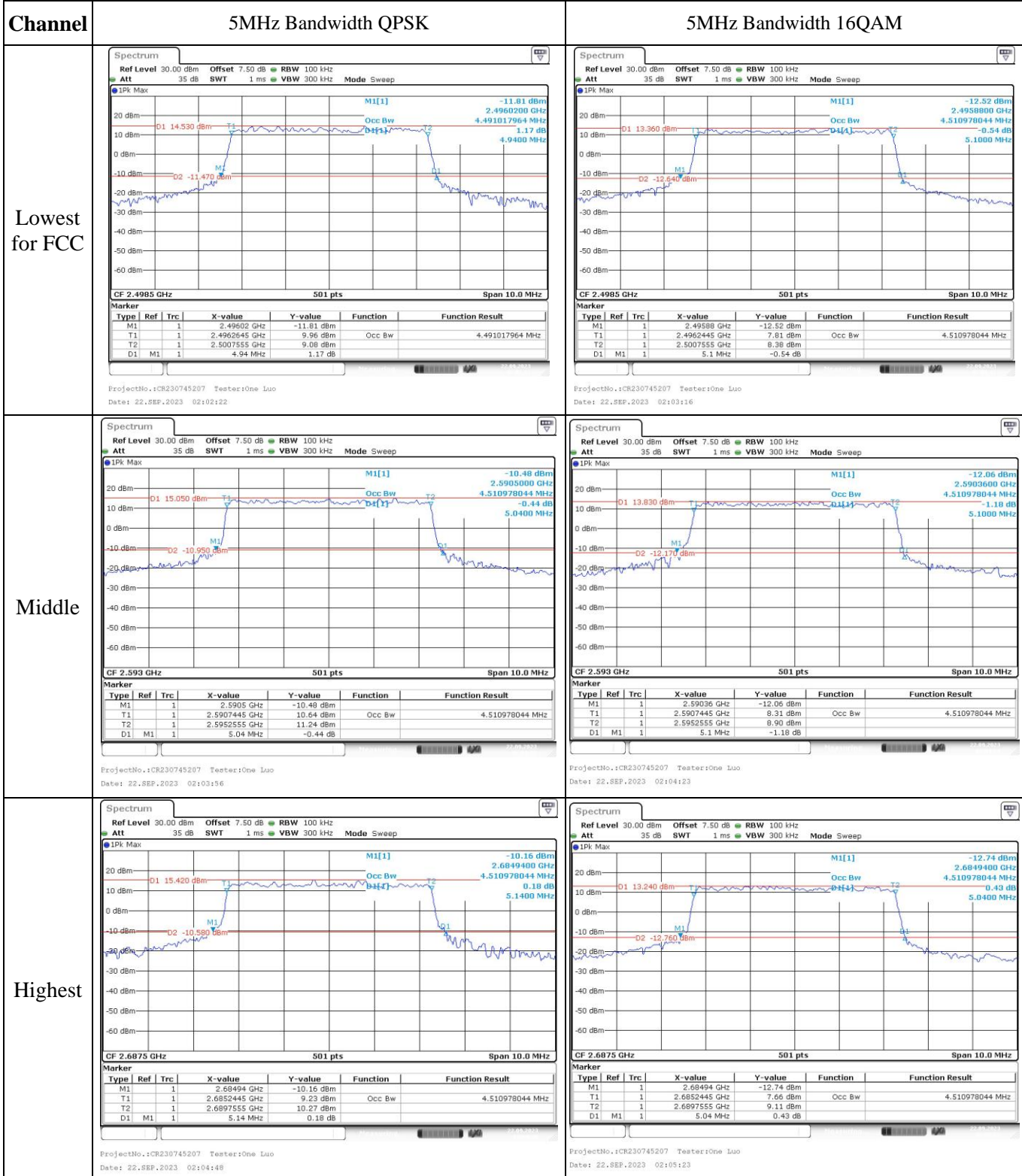
**Spurious Emissions at Antenna Terminal****Result:** Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**Out of band emission, Band Edge****Result:** Pass, Please refer to the test plots of Out of band emission, Band Edge.**Frequency Stability**

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge						
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge for FCC (MHz)		Lower Edge for RSS-199 (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2497.066	2496.00	2501.069	2500	2688.916	2690
	-20	3.87	2497.068	2496.00	2501.052	2500	2688.987	2690
	-10	3.87	2497.068	2496.00	2501.041	2500	2688.967	2690
	0	3.87	2497.083	2496.00	2501.037	2500	2688.926	2690
	10	3.87	2497.034	2496.00	2501.019	2500	2688.966	2690
	20	3.87	2497.058	2496.00	2501.058	2500	2688.942	2690
	30	3.87	2497.005	2496.00	2501.027	2500	2688.926	2690
	40	3.87	2497.098	2496.00	2501.099	2500	2688.922	2690
Frequency Stability vs. Voltage	20	3.2	2497.041	2496.00	2501.053	2500	2688.991	2690
	20	4.45	2497.001	2496.00	2501.099	2500	2688.991	2690
<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)		Lower Edge for RSS-199 (MHz)		Upper Edge(MHz)	
			Result	Limit	Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	2497.085	2496.00	2501.017	2500	2688.987	2690
	-20	3.87	2497.024	2496.00	2501.068	2500	2688.914	2690
	-10	3.87	2497.011	2496.00	2501.084	2500	2688.994	2690
	0	3.87	2497.056	2496.00	2501.561	2500	2688.957	2690
	10	3.87	2497.021	2496.00	2501.086	2500	2688.989	2690
	20	3.87	2497.058	2496.00	2501.058	2500	2688.942	2690
	30	3.87	2497.001	2496.00	2501.026	2500	2689.000	2690
	40	3.87	2497.091	2496.00	2501.052	2500	2688.947	2690
Frequency Stability vs. Voltage	20	3.2	2497.069	2496.00	2501.015	2500	2688.997	2690
	20	4.45	2497.082	2496.00	2501.049	2500	2688.985	2690
<b>Result:</b>							<b>Pass</b>	

**Test Plots**(Note: The 7.5dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



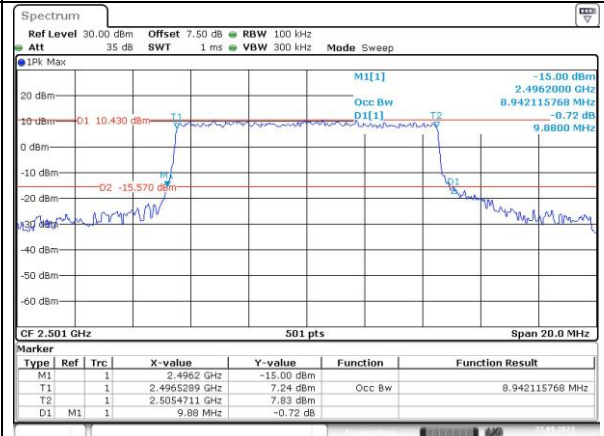
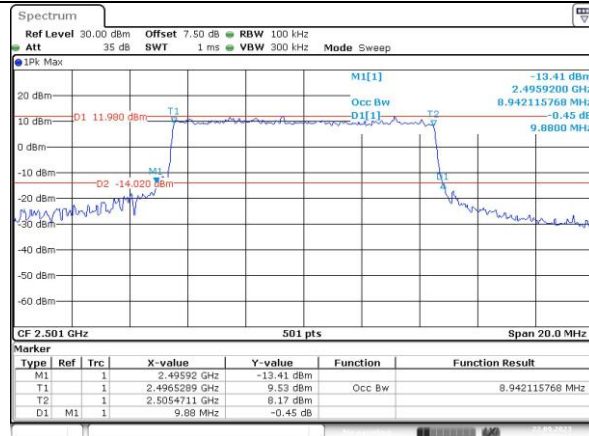
### Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

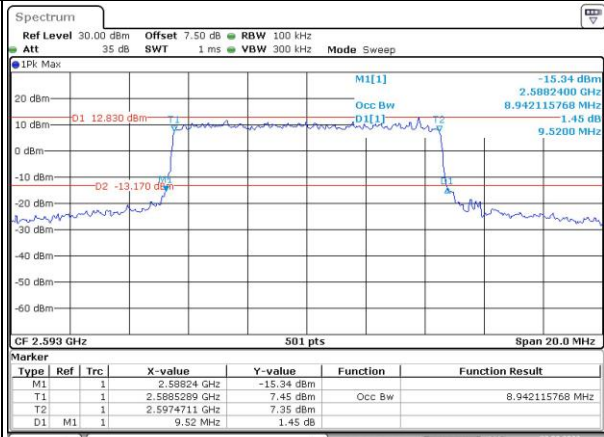
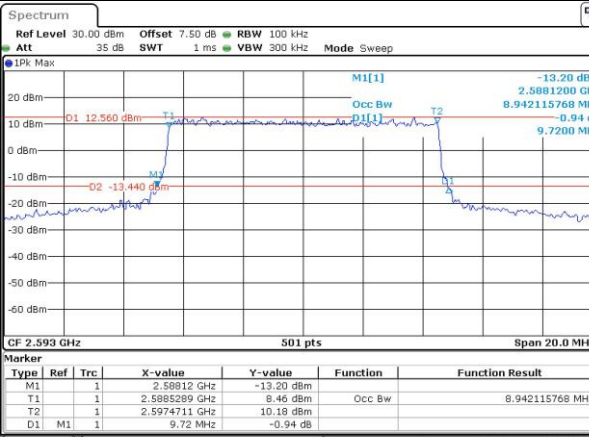
Lowest for FCC



ProjectNo.:CR230745207 Tester:One Luo  
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ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:21:04

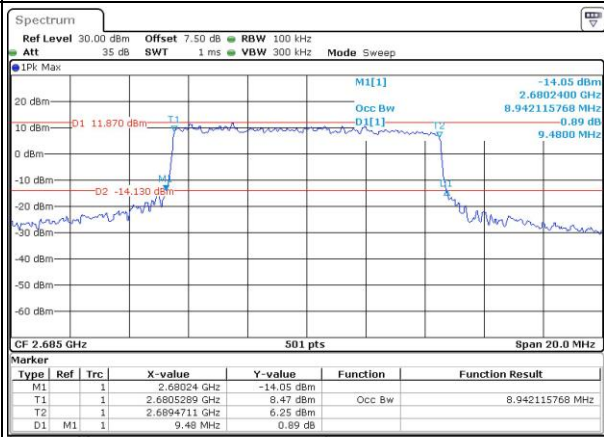
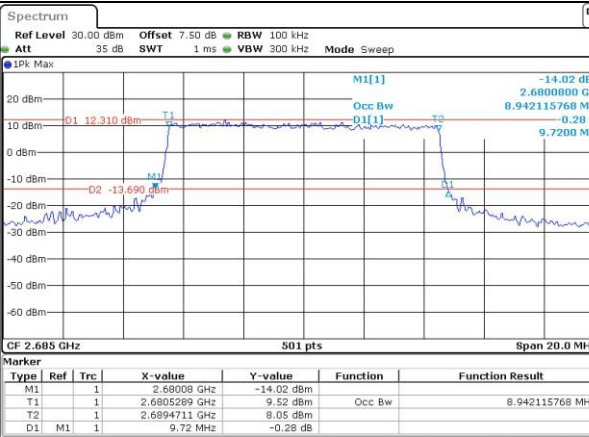
Middle



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:21:48

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:22:23

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:23:06

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:24:00

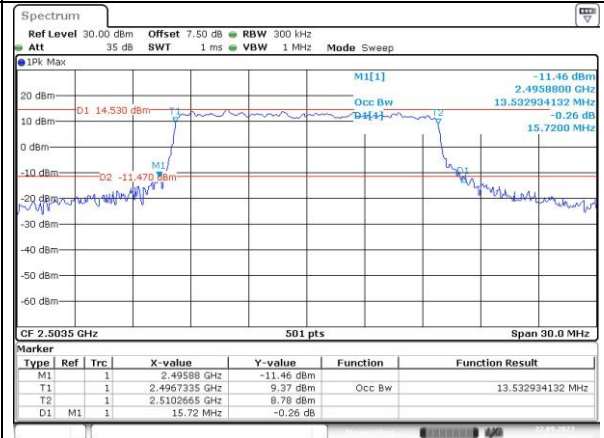
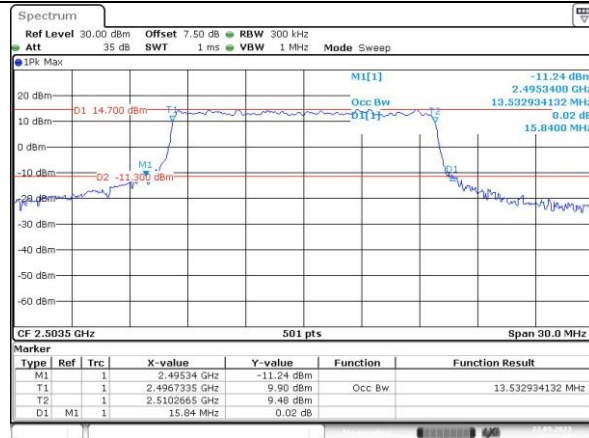
### Occupied Bandwidth

**Channel**

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

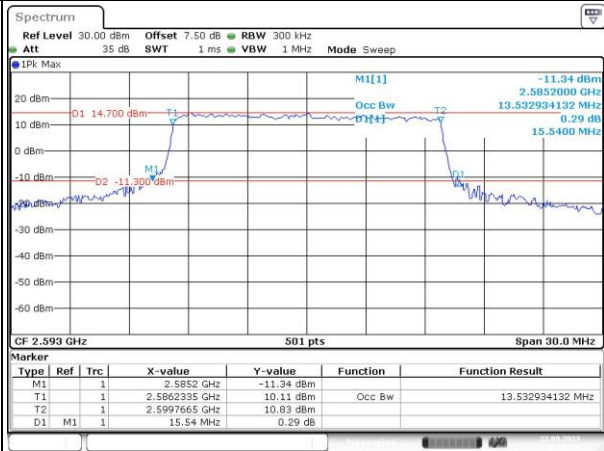
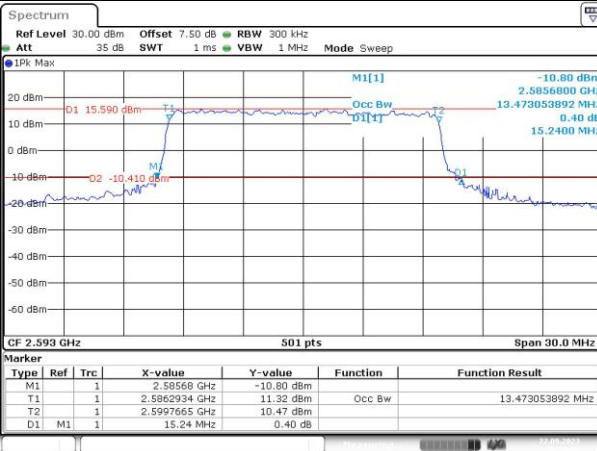
Lowest  
for FCC



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:27:39

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:28:21

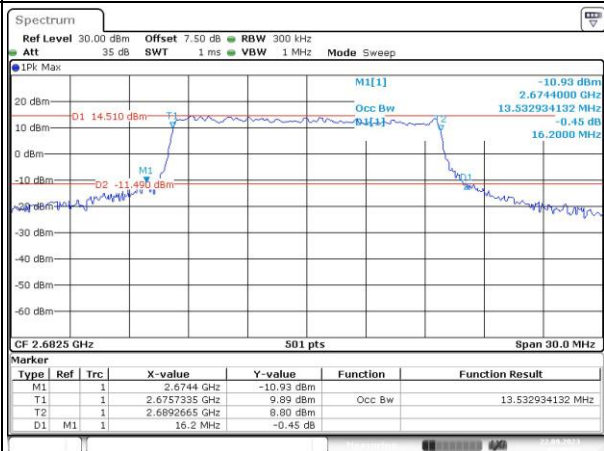
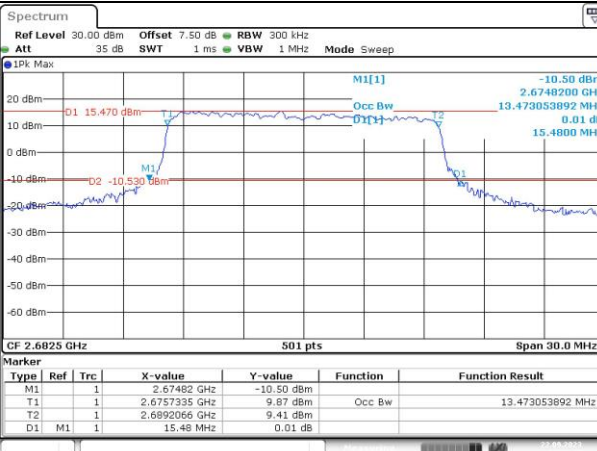
Middle



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:28:52

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:29:31

Highest



ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:30:17

ProjectNo.:CR230745207 Tester:One Luo  
Date: 22.SEP.2023 02:30:59