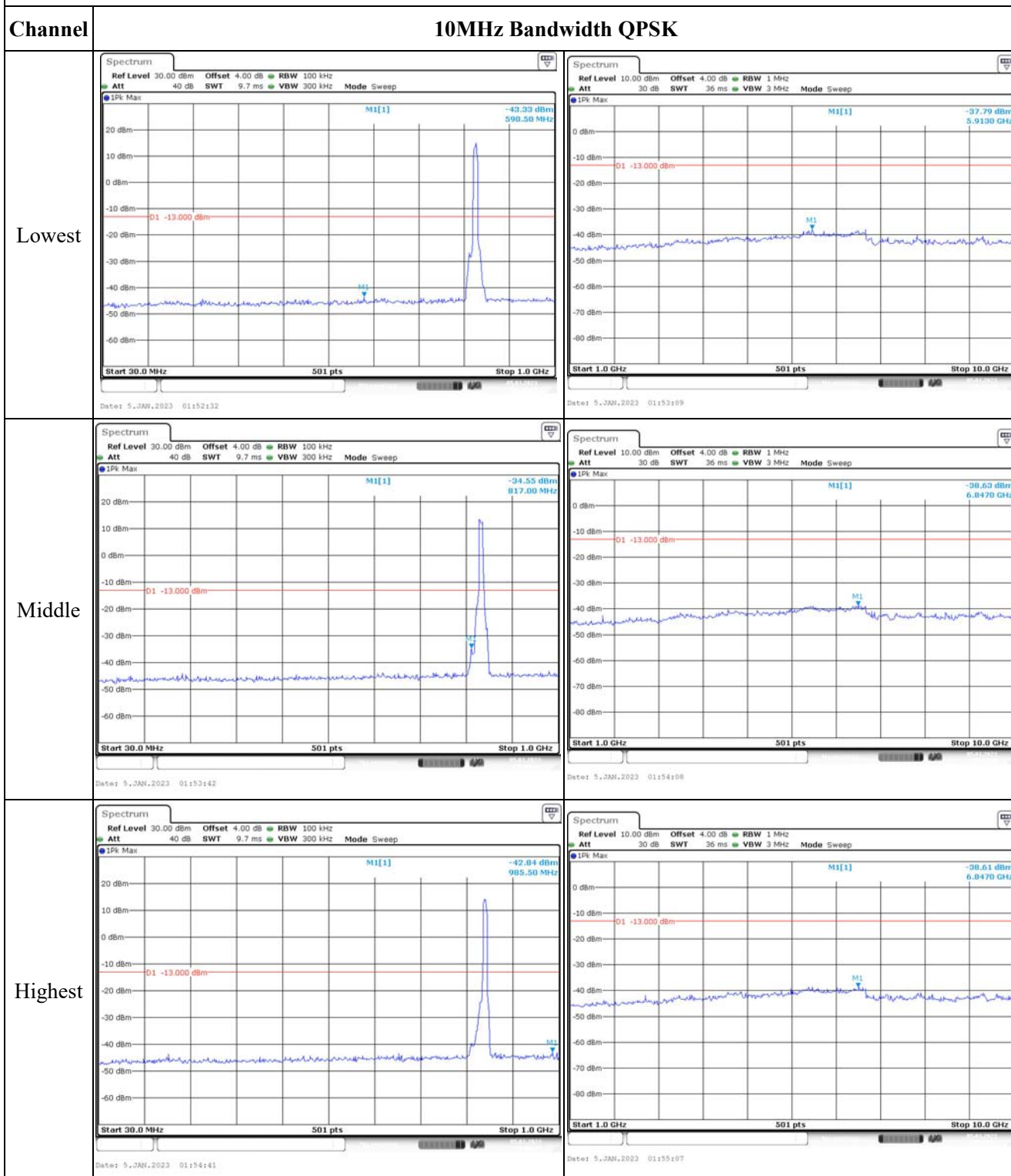
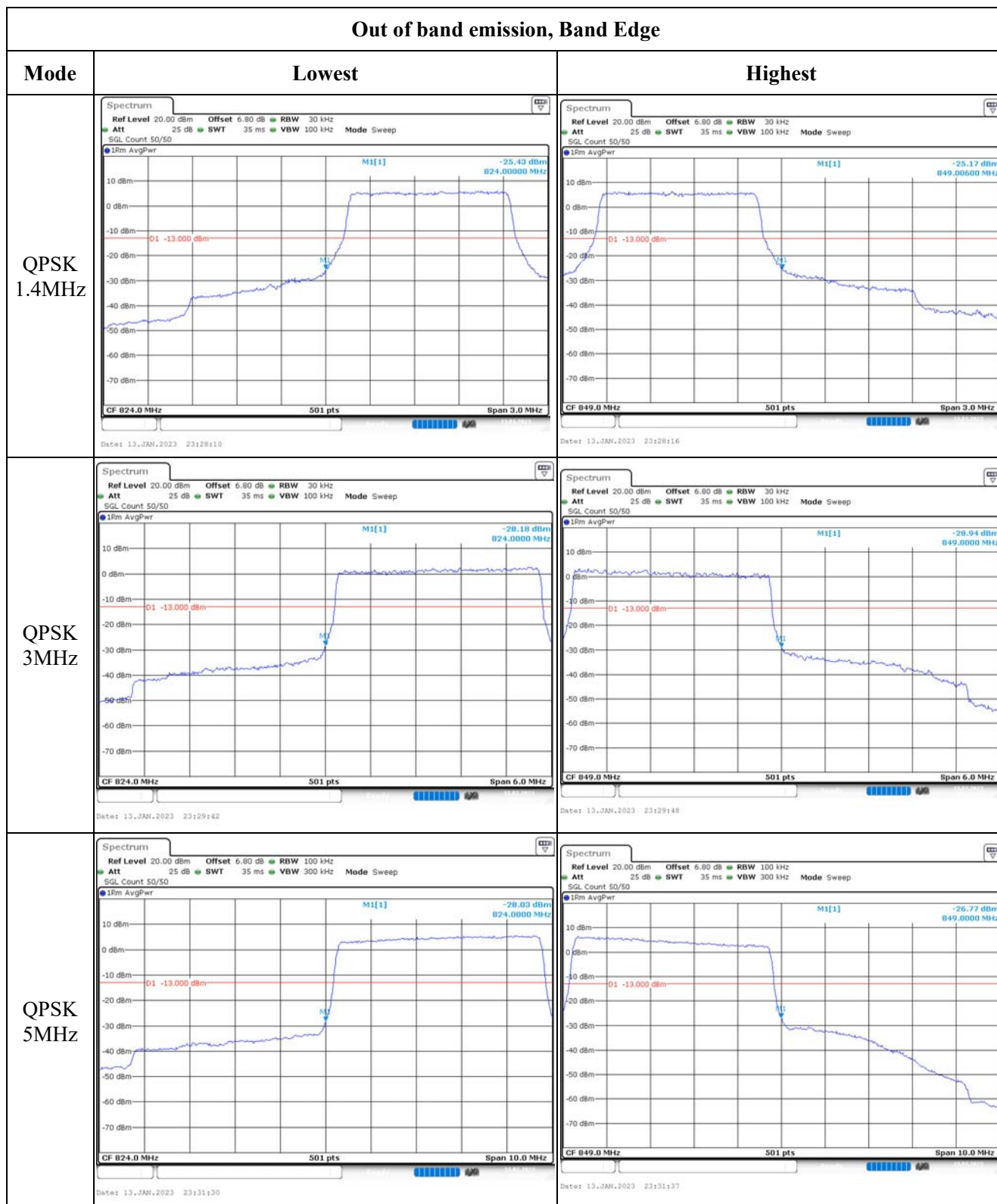


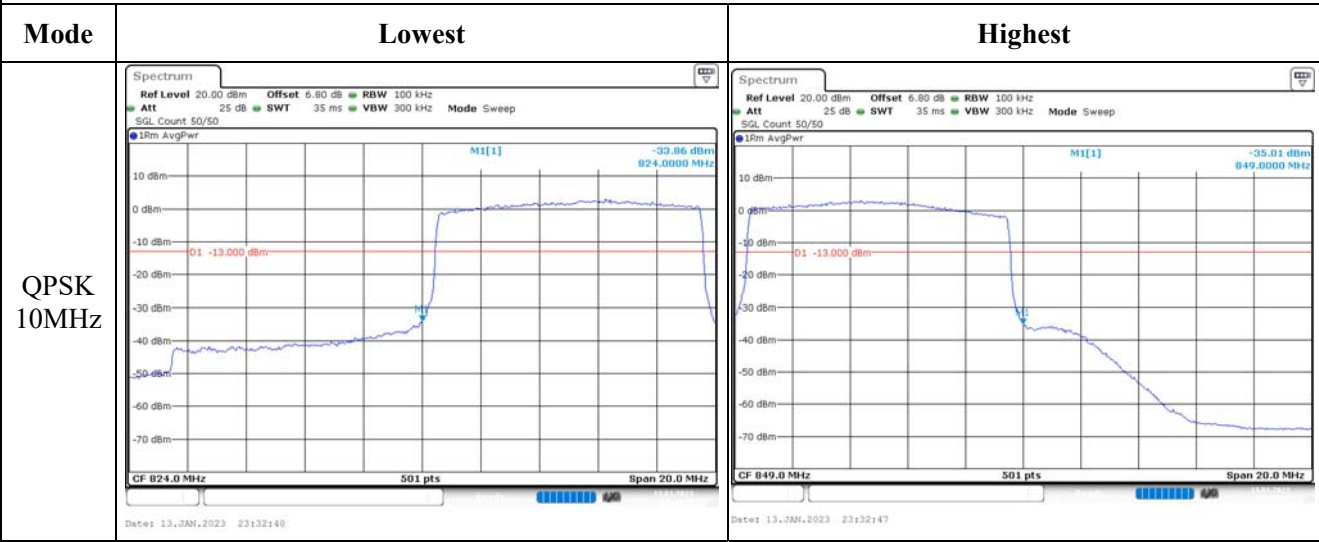
Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge



Out of band emission, Band Edge



4.4 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	1WJB-1	Test Date:	2023/1/6~2023/4/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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
R&S	Spectrum Analyzer	FSU26	200256	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Weinschel	Power splitter	1515	RA915	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	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

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	21.82	22.2	21.97	22.3	33
	RB1#13	21.98	22.27	21.97		
	RB1#24	21.94	22.29	22.13		
	RB15#0	21.3	21.26	21.27		
	RB15#10	21.28	21.35	21.32		
	RB25#0	21.28	21.28	21.26		
10MHz QPSK	RB1#0	22.47	22.29	22.22	22.61	33
	RB1#25	22.51	22.6	22.29		
	RB1#49	22.25	22.46	22.42		
	RB25#0	21.45	21.34	21.36		
	RB25#25	21.36	21.56	21.35		
	RB50#0	21.42	21.37	21.25		
15MHz QPSK	RB1#0	21.81	22.14	22.25	22.46	33
	RB1#38	22.05	22.26	22.38		
	RB1#74	22.16	22.45	22.12		
	RB36#0	21.22	21.25	21.31		
	RB36#39	21.13	21.48	21.31		
	RB75#0	21.24	21.42	21.34		
20MHz QPSK	RB1#0	22.24	22.13	22.3	22.71	33
	RB1#50	22.58	22.56	22.7		
	RB1#99	22.11	22.25	22.28		
	RB50#0	21.45	21.3	21.49		
	RB50#50	21.31	21.55	21.29		
	RB100#0	21.46	21.41	21.36		

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	4.06	4.49	4	13
	RB100#0	3.74	3.83	3.91	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	4.531	5.02	5.04	5.04
10MHz QPSK	8.942	8.942	8.942	9.76	9.8	9.76
15MHz QPSK	13.413	13.473	13.533	14.76	14.94	14.88
20MHz QPSK	17.884	17.964	17.964	19.52	19.28	19.36
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.
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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	5	2501.069	2500.00	2569.029	2570
	-20	5	2501.068	2500.00	2569.027	2570
	-10	5	2501.064	2500.00	2569.027	2570
	0	5	2501.060	2500.00	2569.023	2570
	10	5	2501.059	2500.00	2569.022	2570
	20	5	2501.058	2500.00	2569.022	2570
	30	5	2501.057	2500.00	2569.021	2570
	40	5	2501.056	2500.00	2569.020	2570
	50	5	2501.055	2500.00	2569.019	2570
Frequency Stability vs. Voltage	20	4.5	2501.061	2500.00	2569.023	2570
	20	5.5	2501.057	2500.00	2569.020	2570
					Result:	Pass

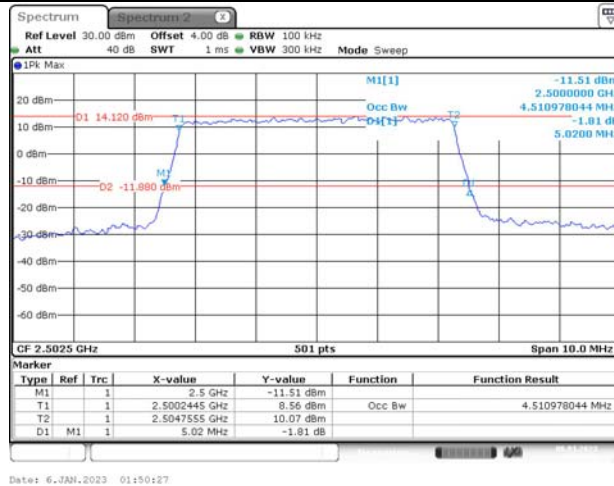
Test Plots(Note: The 4.0 dB or 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

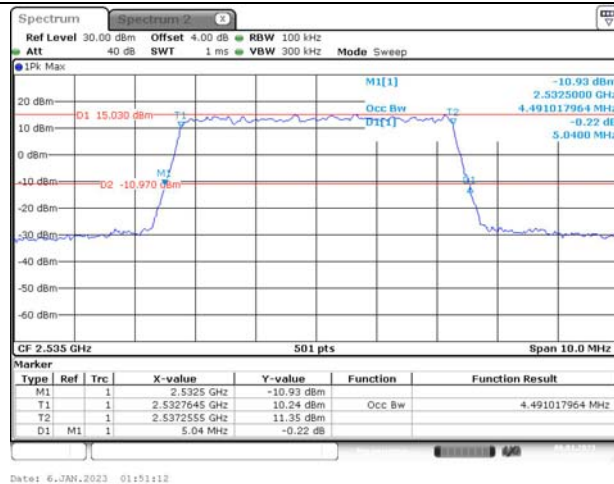
Channel

5MHz Bandwidth QPSK

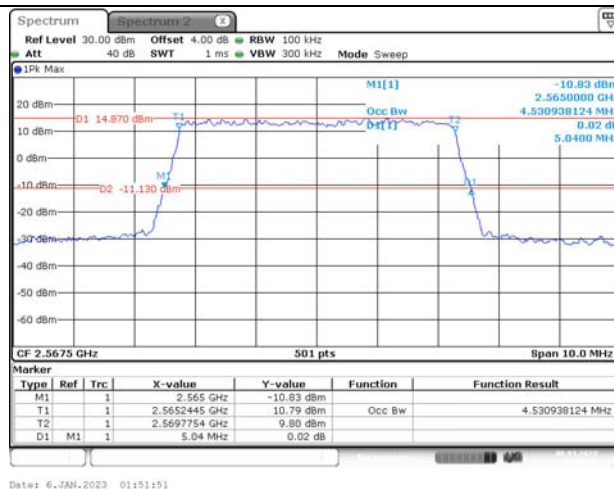
Lowest



Middle



Highest

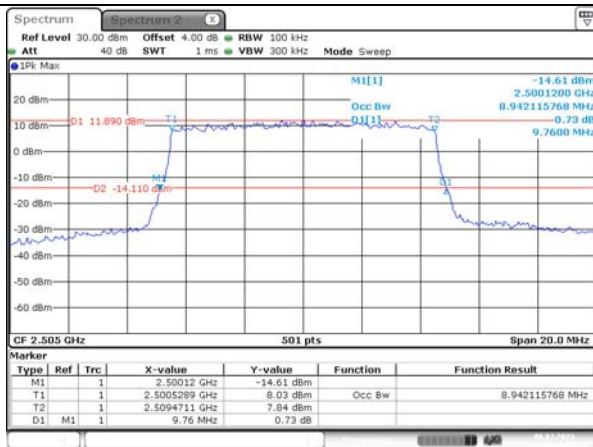


Occupied Bandwidth

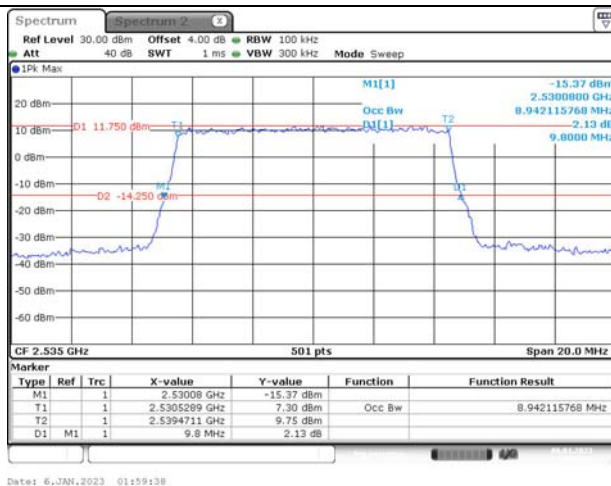
Channel

10MHz Bandwidth QPSK

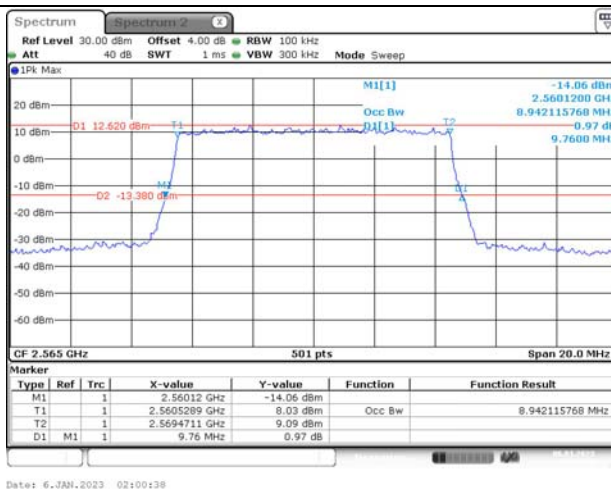
Lowest



Middle



Highest

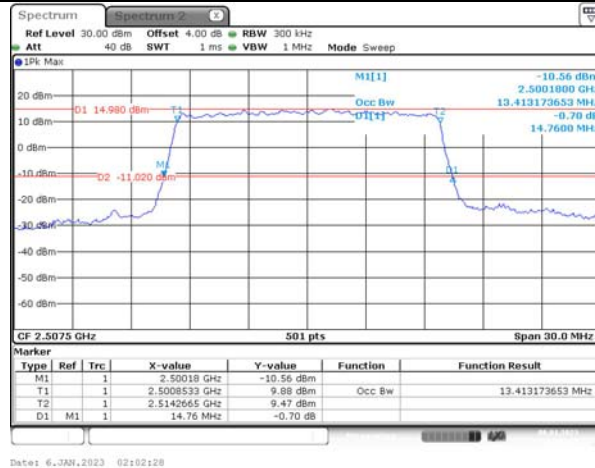


Occupied Bandwidth

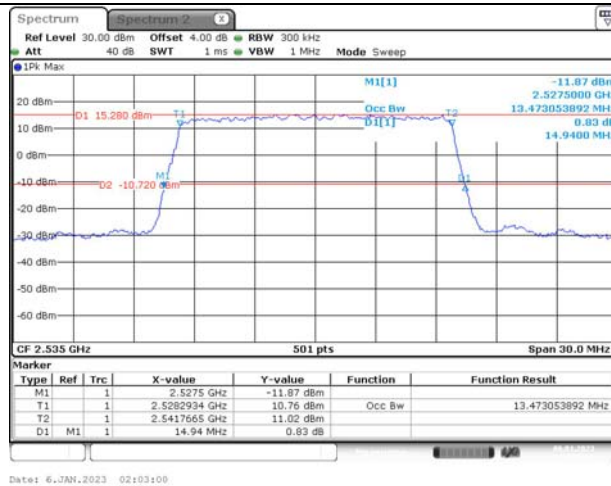
Channel

15MHz Bandwidth QPSK

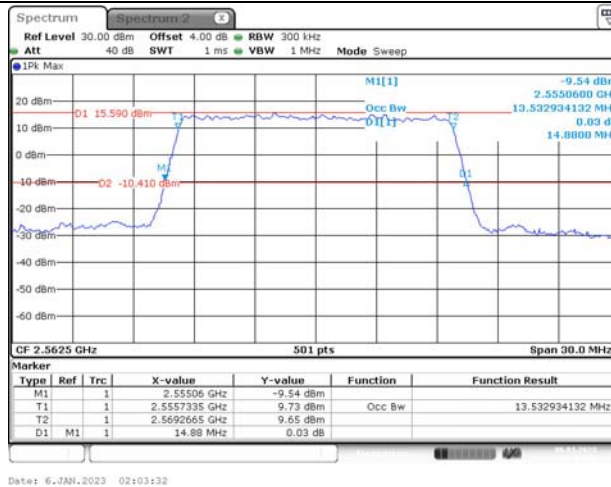
Lowest



Middle



Highest

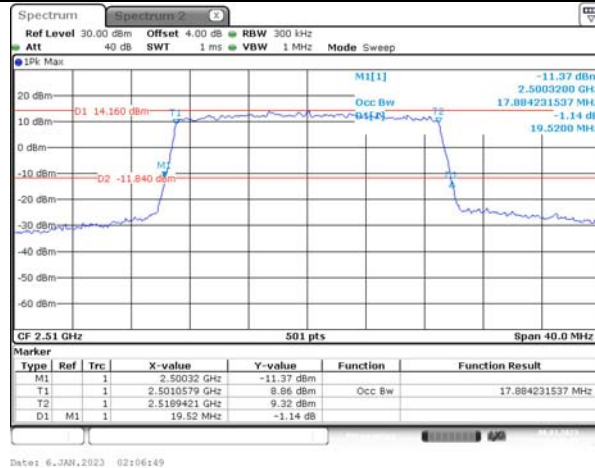


Occupied Bandwidth

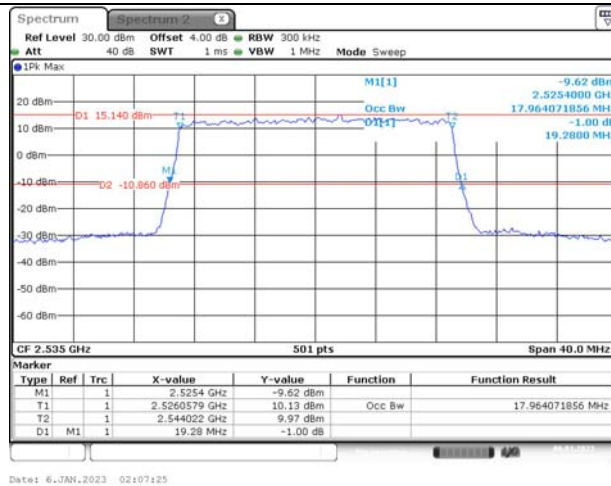
Channel

20MHz Bandwidth QPSK

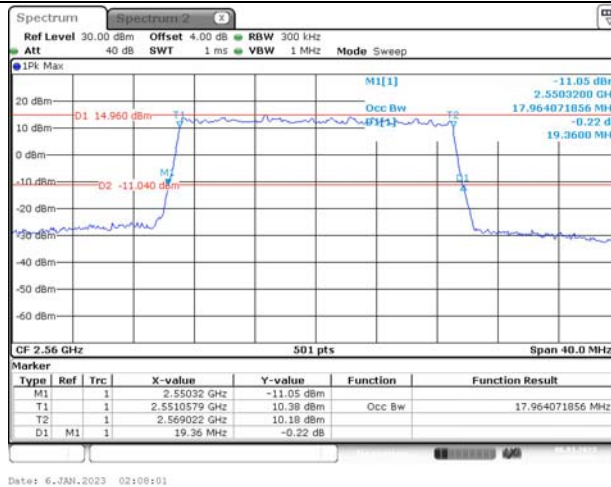
Lowest



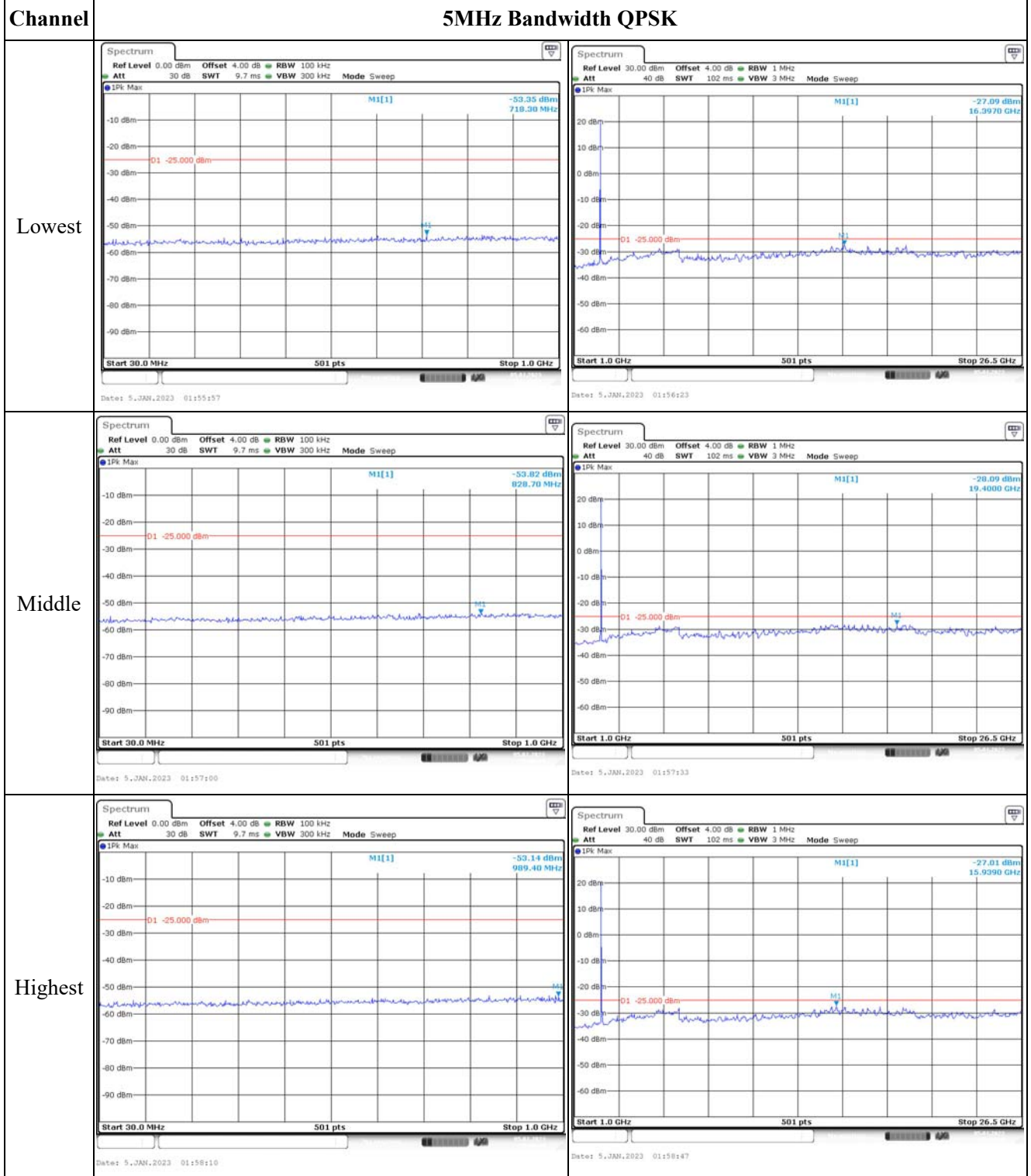
Middle



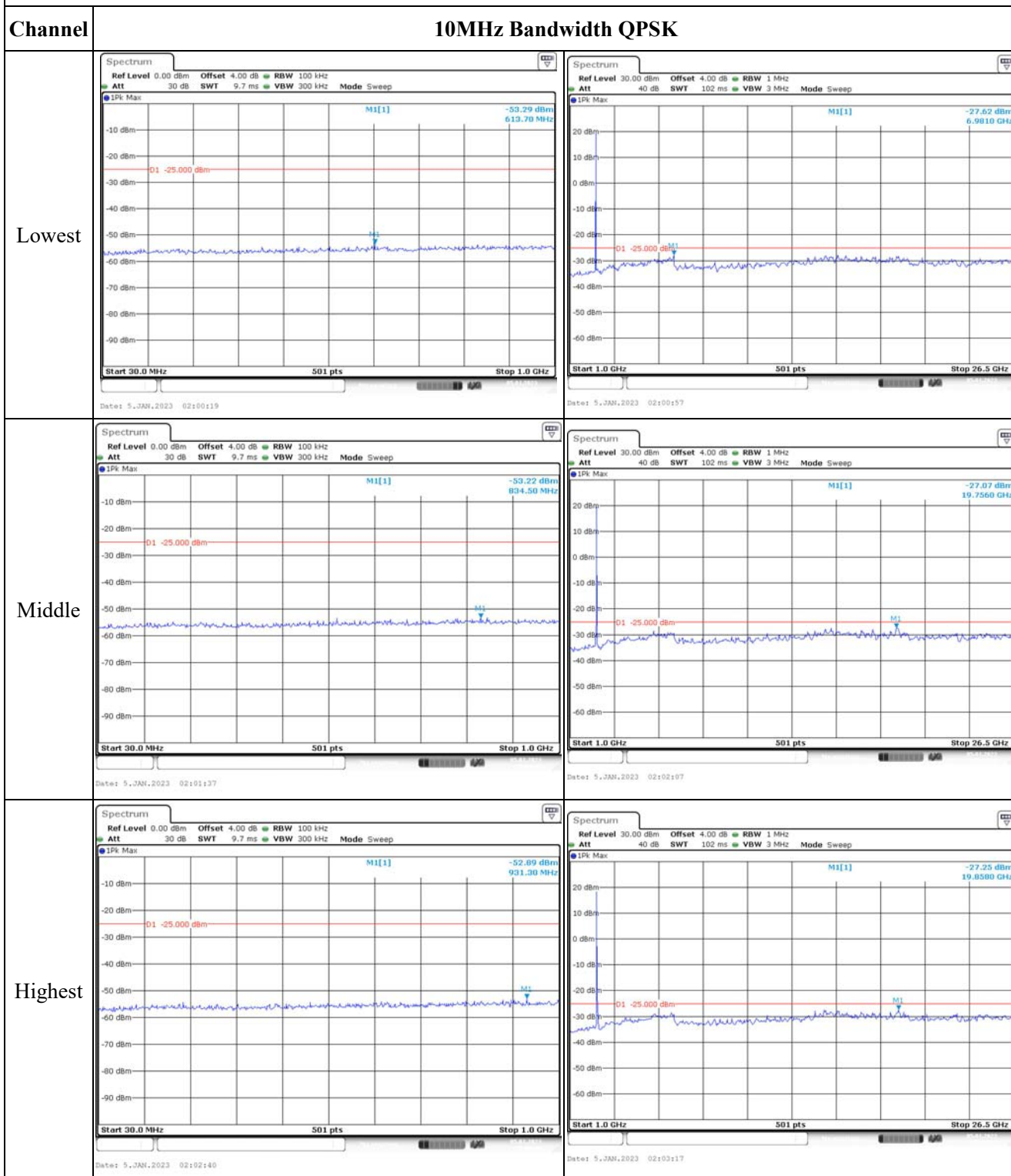
Highest



Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal

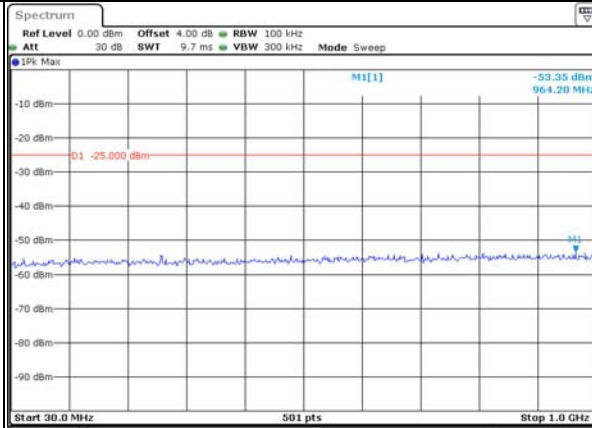


Spurious Emissions at Antenna Terminal

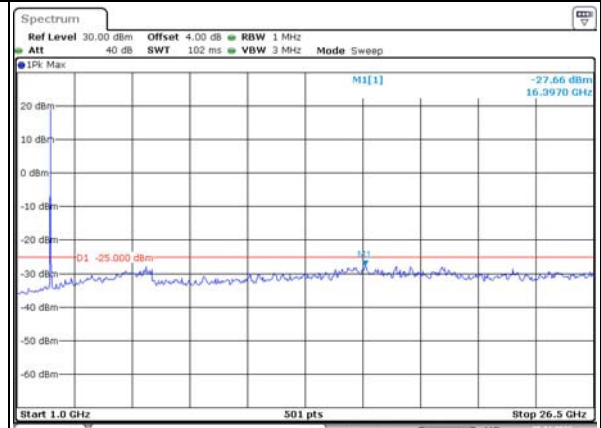
Channel

15MHz Bandwidth QPSK

Lowest

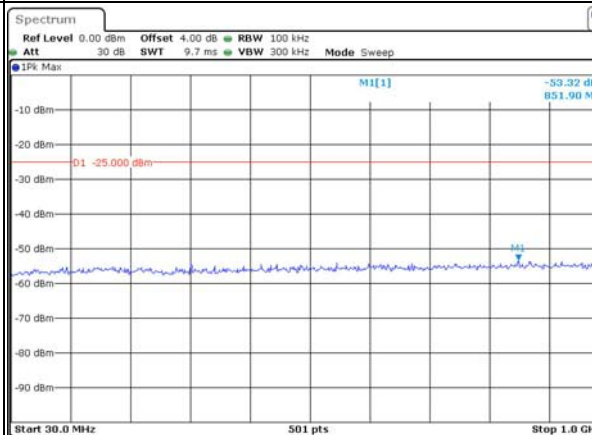


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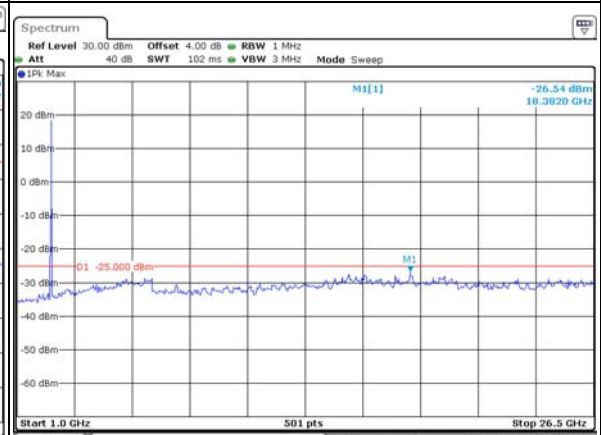


Date: 5, JAN, 2023 02:05:16

Middle

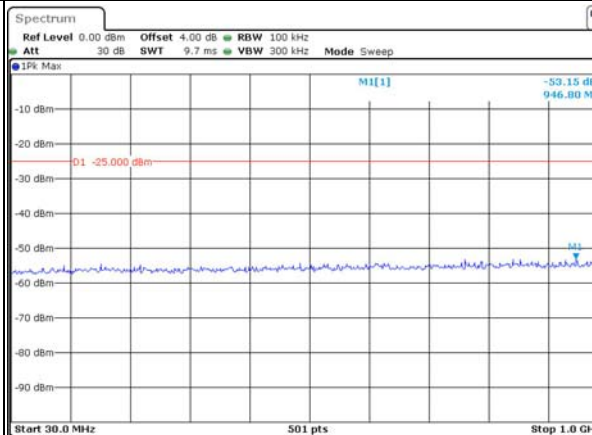


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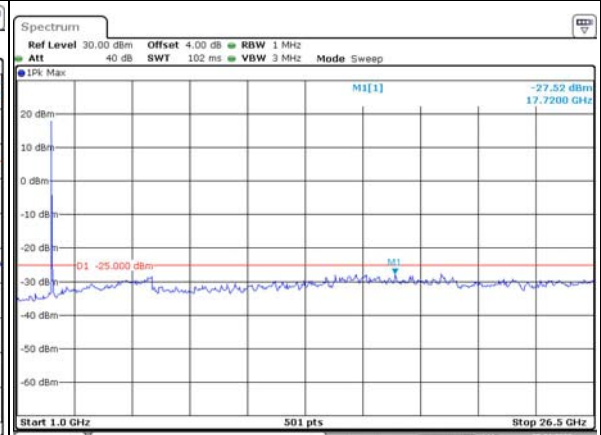


Date: 5, JAN, 2023 02:06:20

Highest



Date: 5, JAN, 2023 02:06:53



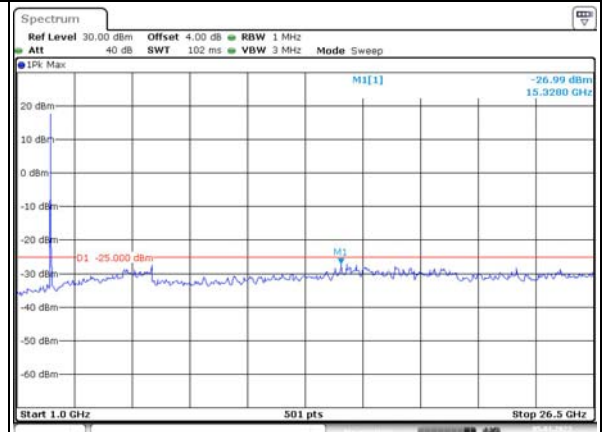
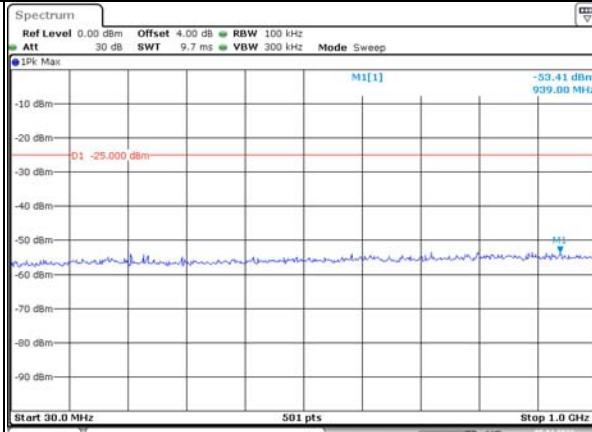
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Spurious Emissions at Antenna Terminal

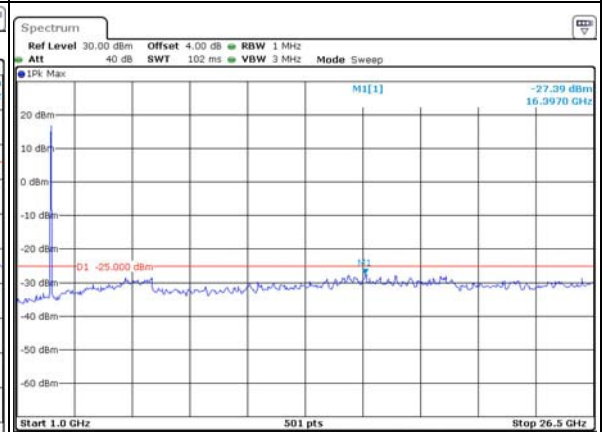
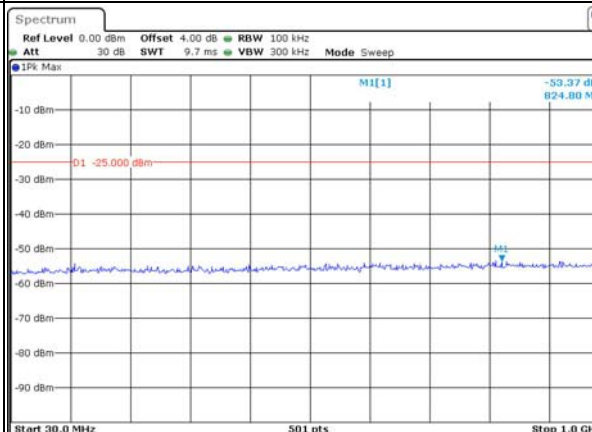
Channel

20MHz Bandwidth QPSK

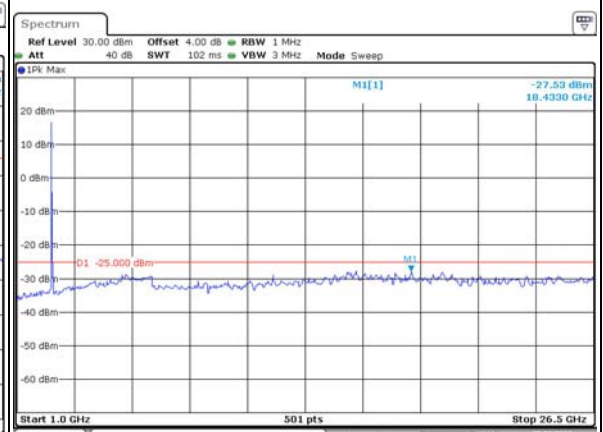
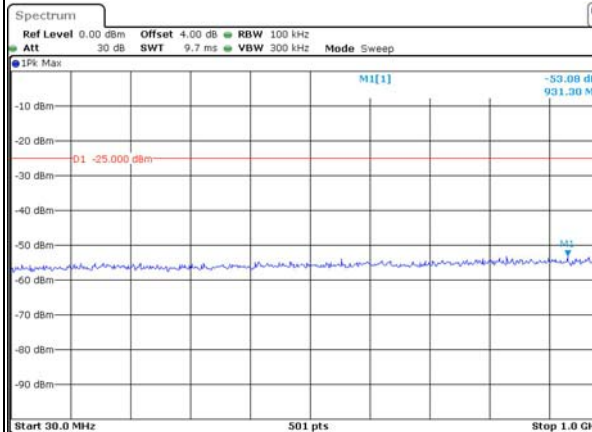
Lowest



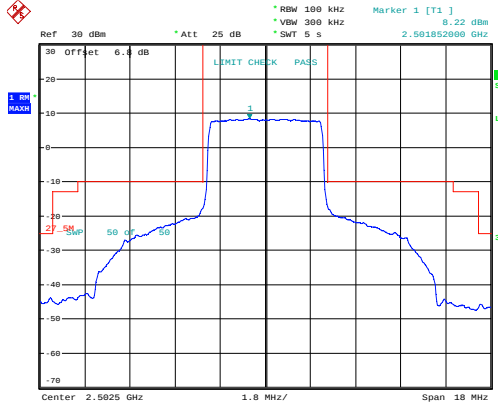
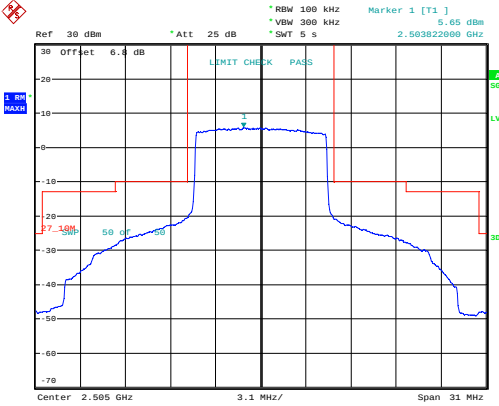
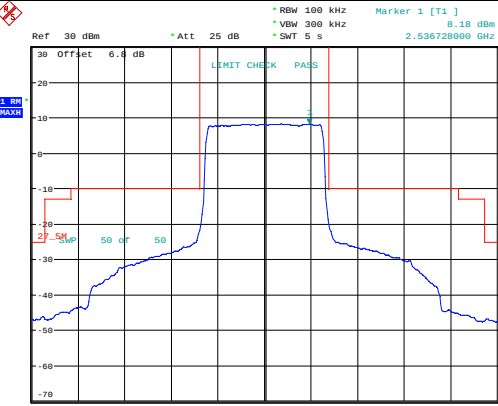
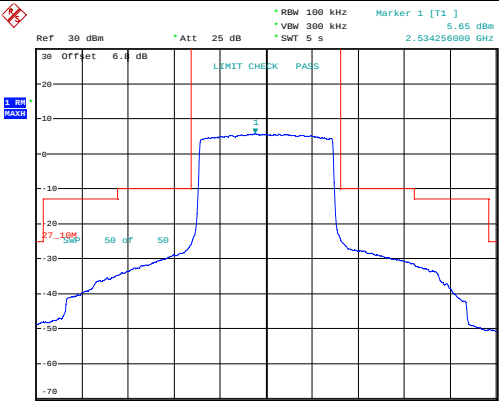
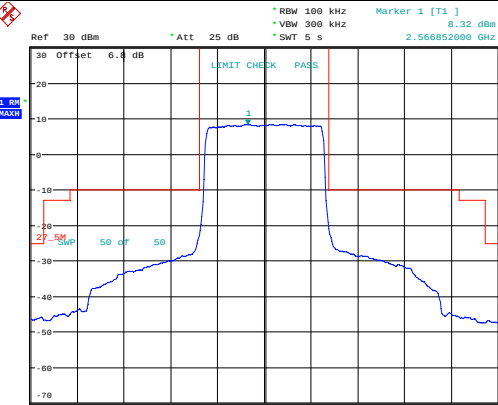
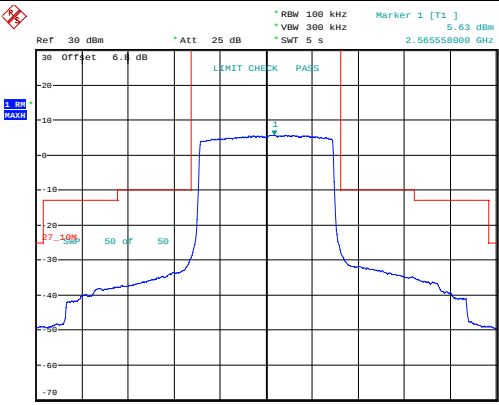
Middle



Highest



Out of band emission, Band Edge

Channel	5MHz Bandwidth QPSK	10MHz Bandwidth QPSK
Lowest	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 8.22 dBm 2.501852000 GHz Center 2.5025 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 11:02:01	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 5.65 dBm 2.50322000 GHz Center 2.505 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 11:44:29
Middle	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 8.18 dBm 2.530728000 GHz Center 2.535 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 11:08:03	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 5.65 dBm 2.534258000 GHz Center 2.535 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 11:36:15
Highest	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 8.32 dBm 2.560852000 GHz Center 2.5675 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 13:31:39	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 s Marker 1 [T1] 5.63 dBm 2.565558000 GHz Center 2.565 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 13:38:22

Out of band emission, Band Edge

Channel	15MHz Bandwidth QPSK	20MHz Bandwidth QPSK
Lowest	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 8.74 dBm 2.506396000 GHz Center 2.5075 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 11:57:04	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 7.40 dBm 2.504754000 GHz Center 2.51 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 13:12:24
Middle	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 8.95 dBm 2.530912000 GHz Center 2.535 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 13:45:11	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 7.74 dBm 2.533780000 GHz Center 2.535 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 13:17:58
Highest	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 8.88 dBm 2.560364000 GHz Center 2.5625 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 12:32:22	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 5 s * Marker 1 [T1] 7.64 dBm 2.564880000 GHz Center 2.56 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 13:23:39

4.5 Antenna Port Test Data and Results for LTE Band 12

Serial Number:	1WJB-1	Test Date:	2023-01-6~2023-01-19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	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)
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:**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		
1.4MHz QPSK	RB1#0	21.47	21.84	21.84	20.06	34.77
	RB1#3	21.53	21.88	22.09		
	RB1#5	21.54	21.8	22.2		
	RB3#0	21.69	22.02	21.9		
	RB3#3	21.64	21.8	21.98		
	RB6#0	20.77	20.82	20.96		
3MHz QPSK	RB1#0	21.55	21.92	21.67	19.78	34.77
	RB1#8	21.64	21.81	21.82		
	RB1#14	21.7	21.76	21.9		
	RB6#0	20.81	20.89	20.82		
	RB6#9	20.86	20.82	20.99		
	RB15#0	20.8	20.99	20.98		
5MHz QPSK	RB1#0	21.68	21.75	21.52	19.79	34.77
	RB1#13	21.87	21.89	21.82		
	RB1#24	21.78	21.56	21.93		
	RB15#0	20.85	20.98	20.96		
	RB15#10	20.96	20.86	21.07		
	RB25#0	20.97	20.93	20.95		
10MHz QPSK	RB1#0	21.55	21.6	21.73	20.2	34.77
	RB1#25	22.34	22.28	21.98		
	RB1#49	21.83	21.9	21.97		
	RB25#0	20.77	20.95	21.03		
	RB25#25	20.94	20.87	20.98		
	RB50#0	20.84	20.94	20.94		

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	4.96	4.78	4.78	13
	RB50#0	4.93	4.93	5.3	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
1.4MHz QPSK	1.108	1.108	1.108	1.344	1.308	1.338
3MHz QPSK	2.683	2.695	2.695	2.964	2.952	2.952
5MHz QPSK	4.531	4.491	4.551	5.04	5.02	5.04
10MHz QPSK	8.902	8.942	8.942	9.64	9.68	9.76
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.
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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.
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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	5	699.587	699.00	715.484	716.00
	-20	5	699.584	699.00	715.482	716.00
	-10	5	699.579	699.00	715.478	716.00
	0	5	699.575	699.00	715.478	716.00
	10	5	699.573	699.00	715.474	716.00
	20	5	699.569	699.00	715.471	716.00
	30	5	699.565	699.00	715.467	716.00
	40	5	699.562	699.00	715.464	716.00
	50	5	699.559	699.00	715.464	716.00
Frequency Stability vs. Voltage	20	4.5	699.571	699.00	715.473	716.00
	20	5.5	699.565	699.00	715.469	716.00
Result:					Pass	

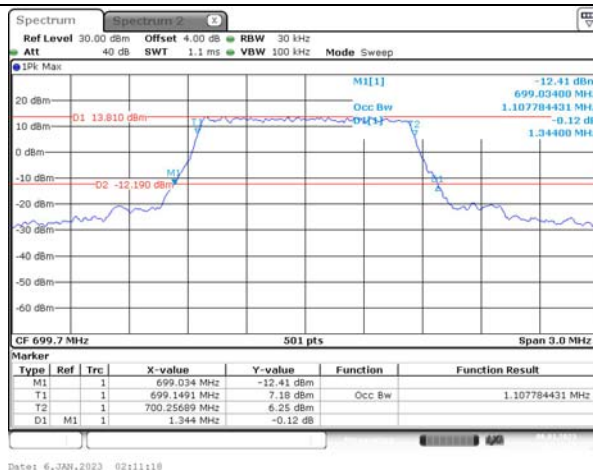
Test Plots(Note: The 4.0dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

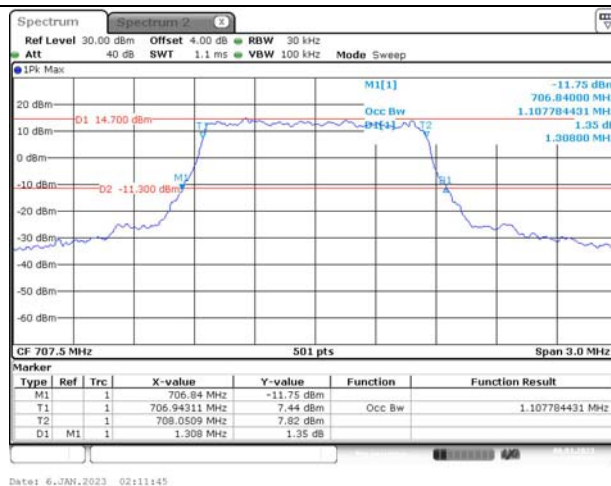
Channel

1.4MHz Bandwidth QPSK

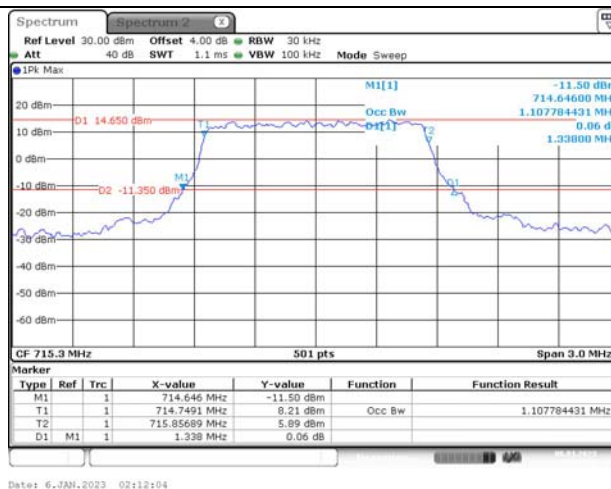
Lowest



Middle



Highest

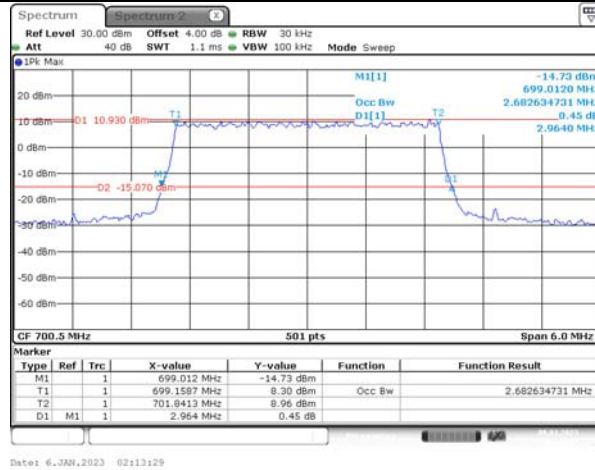


Occupied Bandwidth

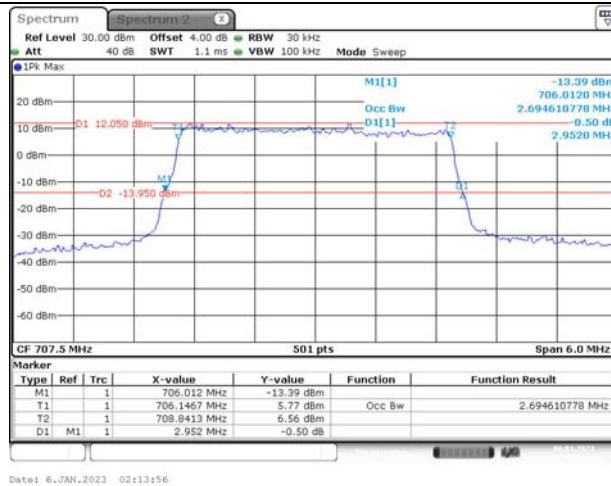
Channel

3MHz Bandwidth QPSK

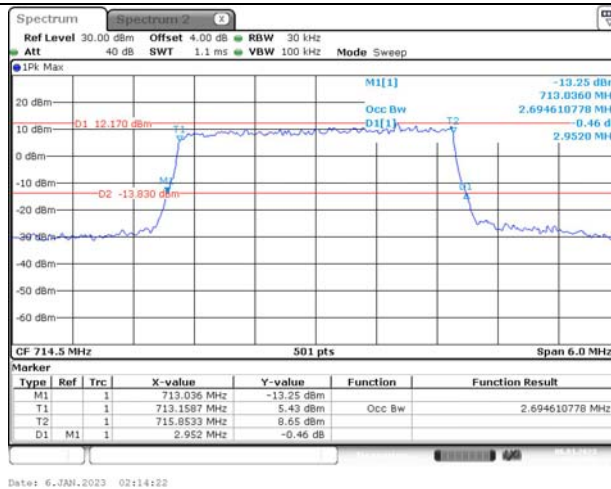
Lowest



Middle



Highest

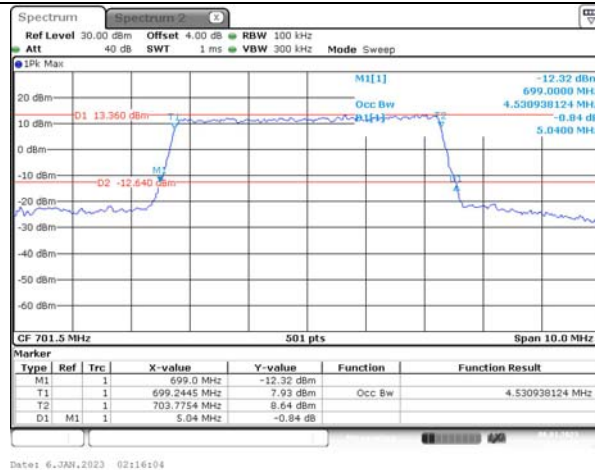


Occupied Bandwidth

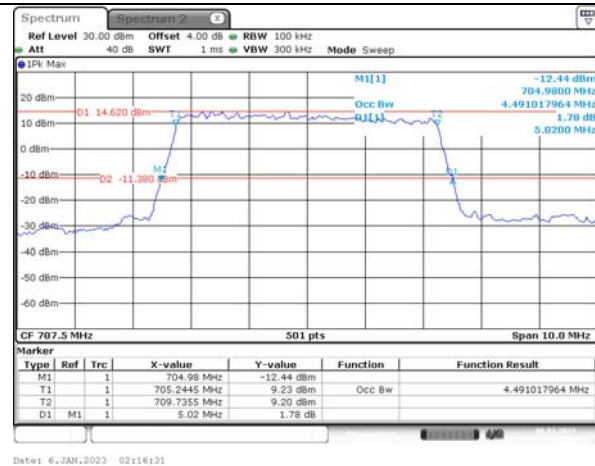
Channel

5MHz Bandwidth QPSK

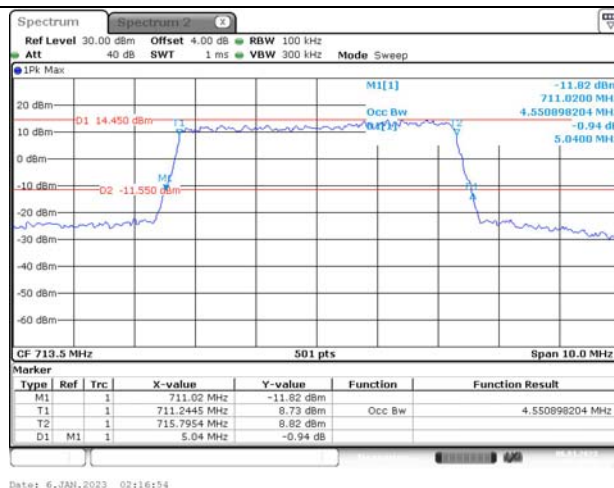
Lowest



Middle



Highest

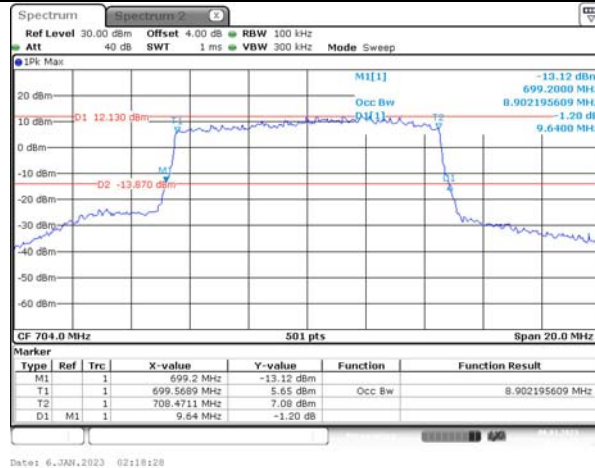


Occupied Bandwidth

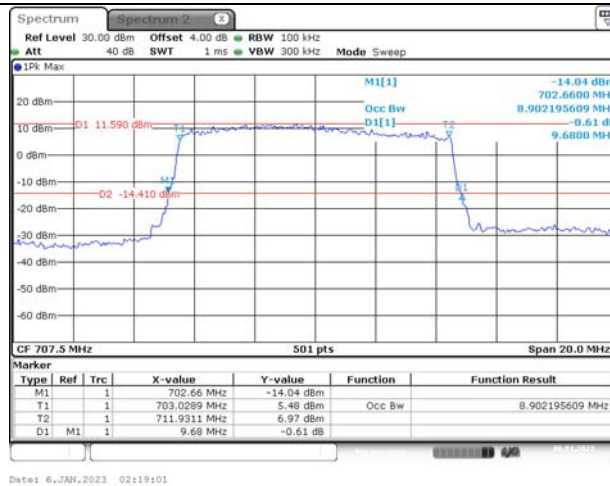
Channel

10MHz Bandwidth QPSK

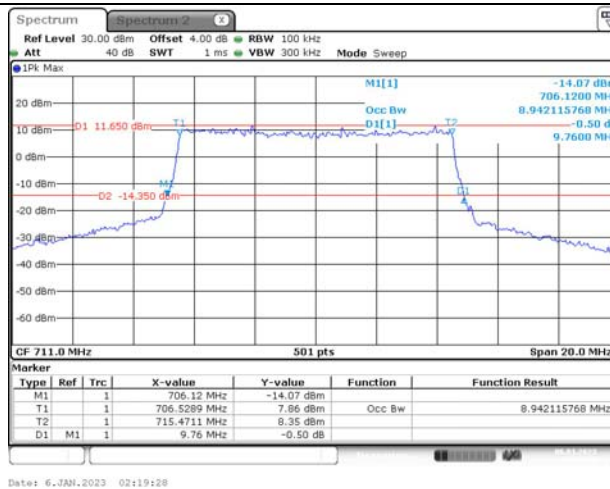
Lowest



Middle



Highest

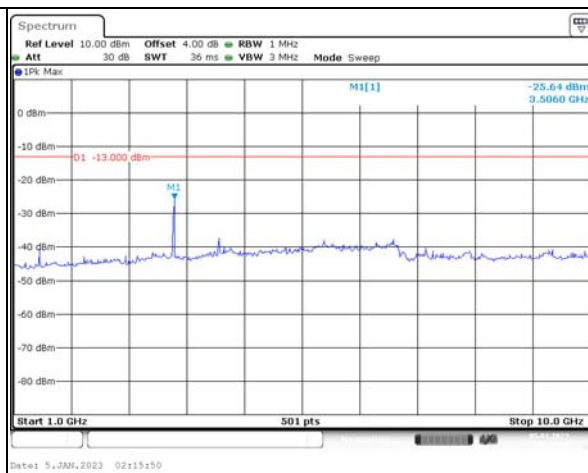
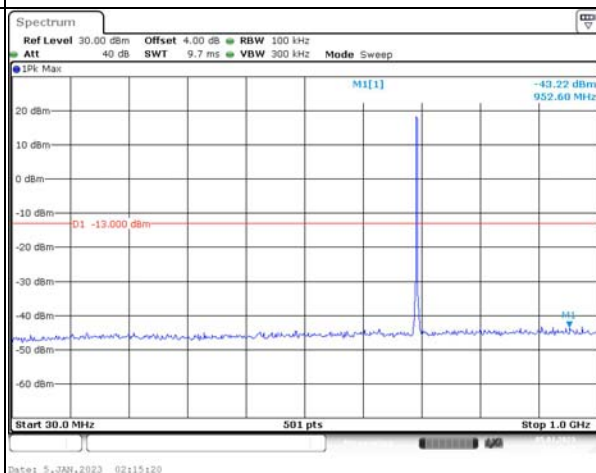


Spurious Emissions at Antenna Terminal

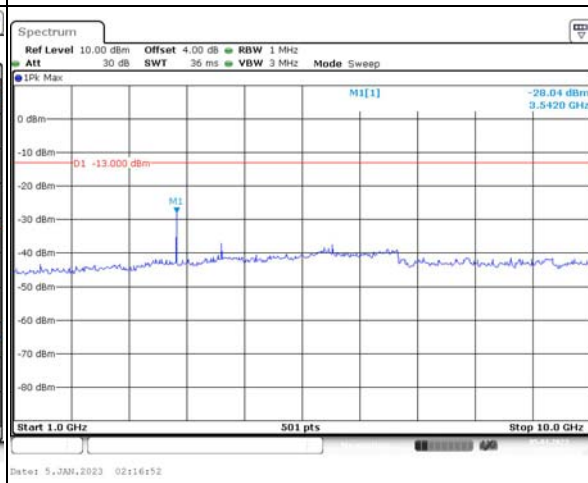
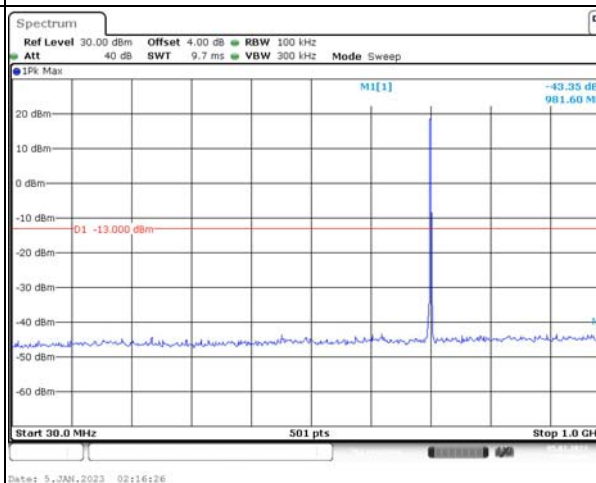
Channel

1.4MHz Bandwidth QPSK

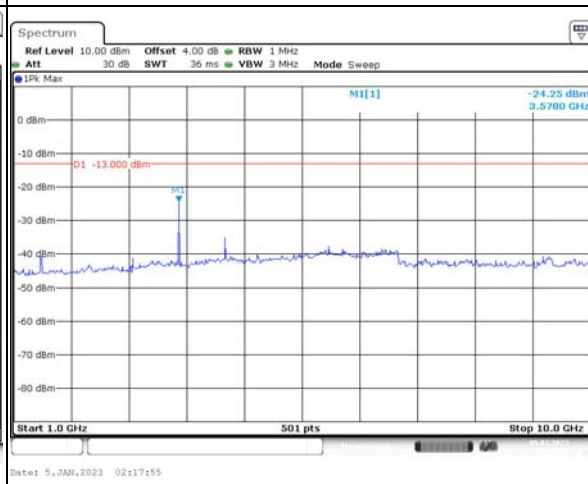
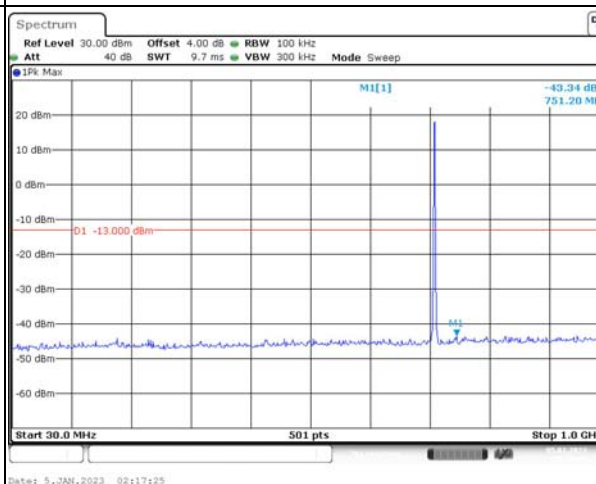
Lowest



Middle



Highest

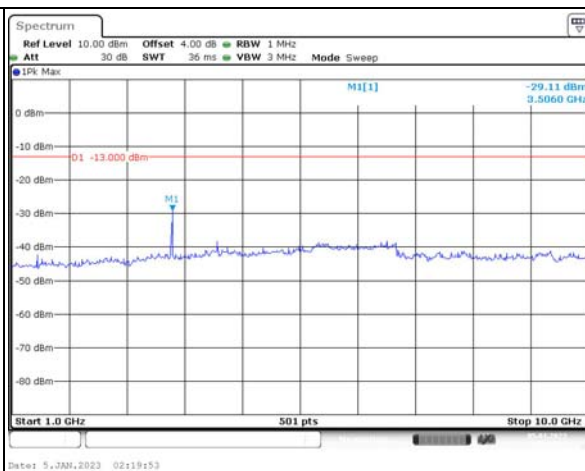
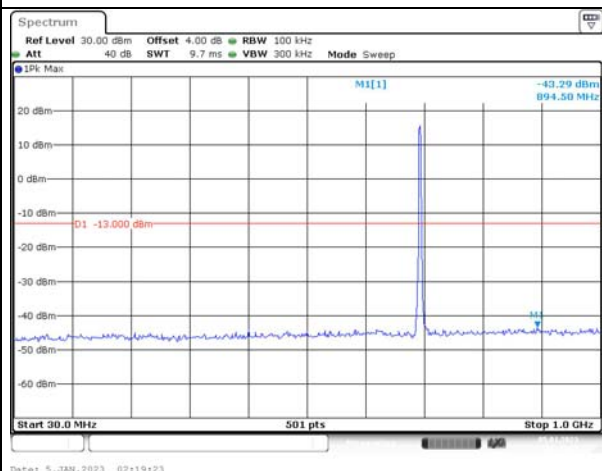


Spurious Emissions at Antenna Terminal

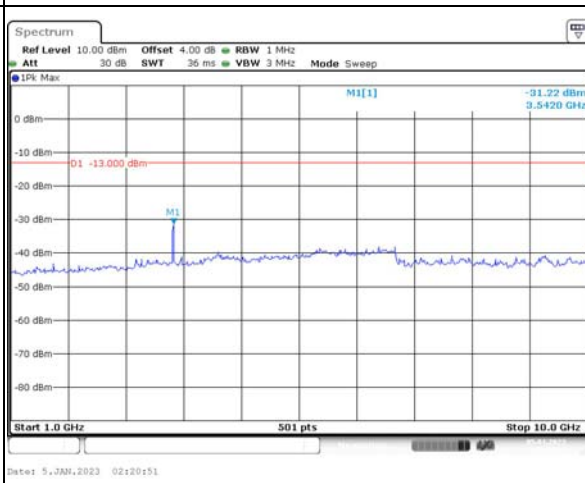
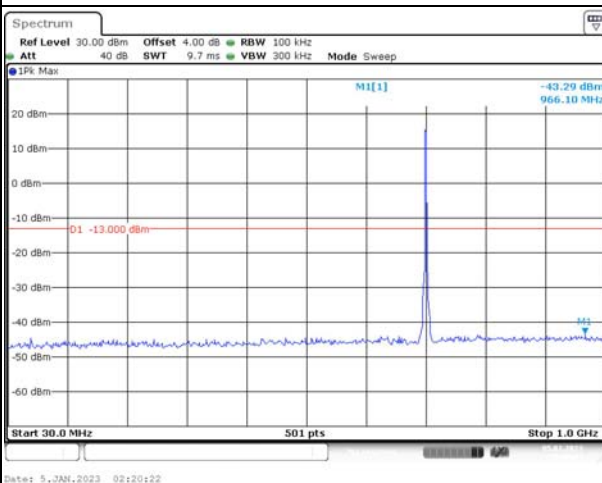
Channel

3MHz Bandwidth QPSK

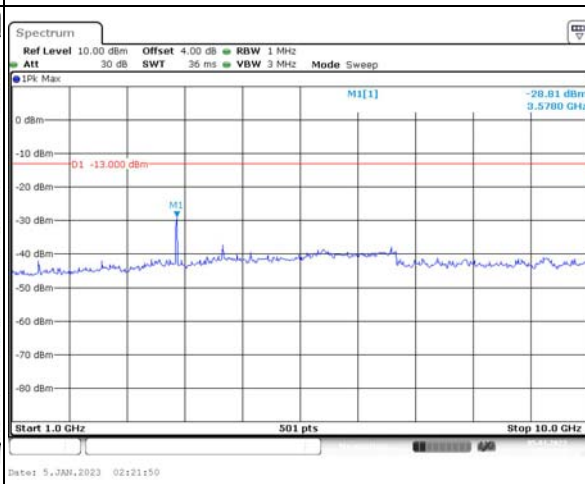
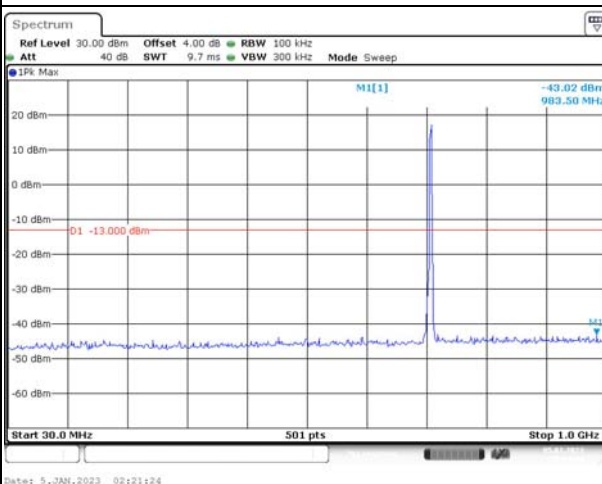
Lowest



Middle



Highest

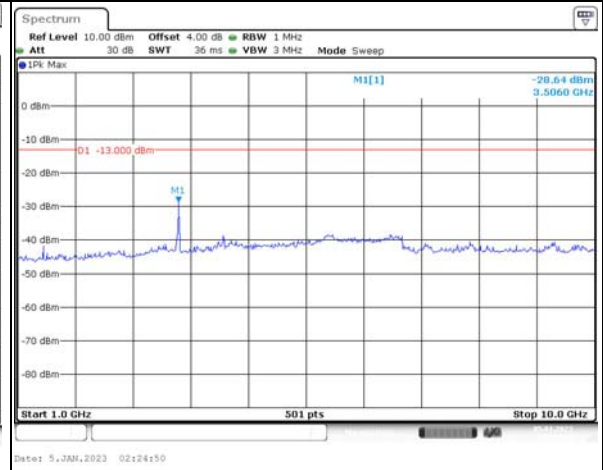
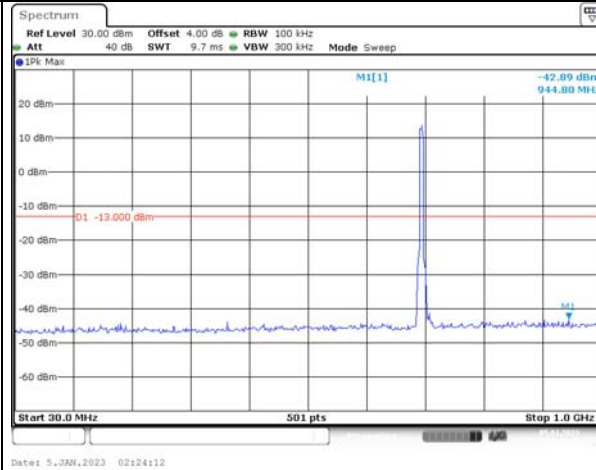


Spurious Emissions at Antenna Terminal

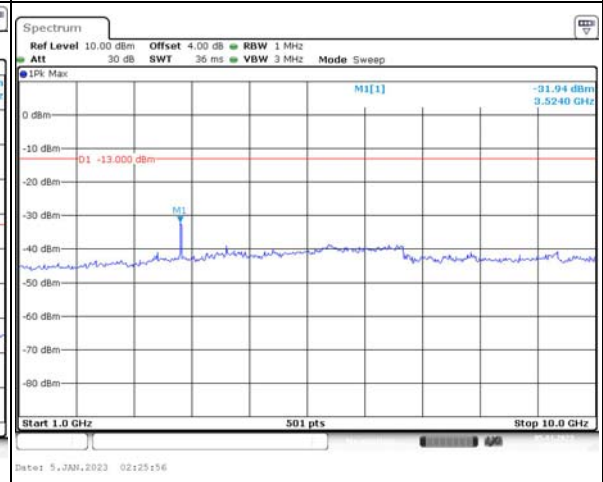
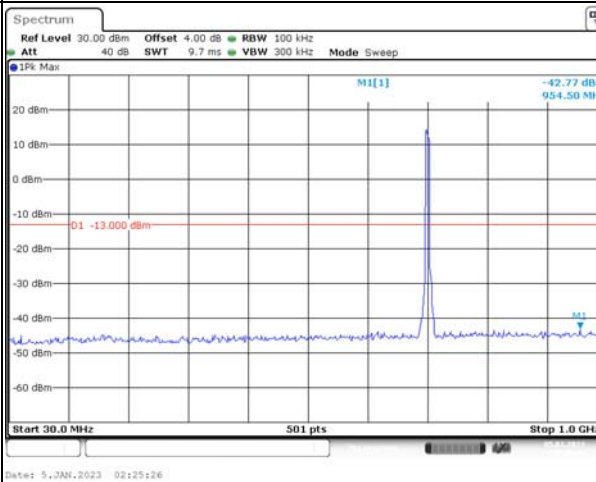
Channel

5MHz Bandwidth QPSK

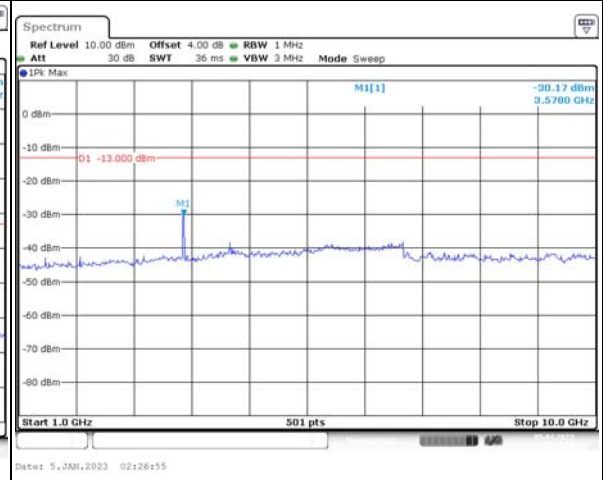
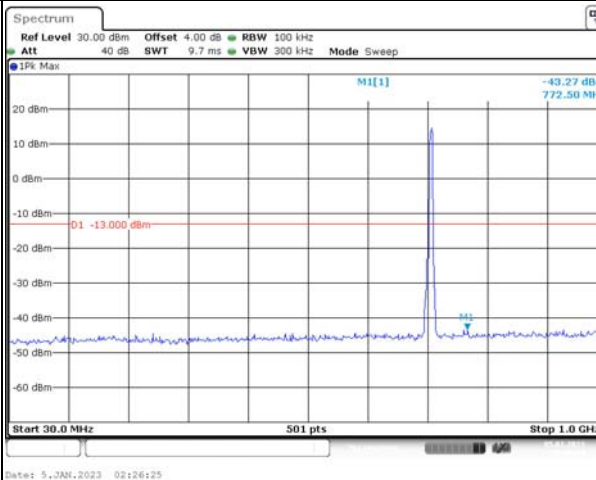
Lowest



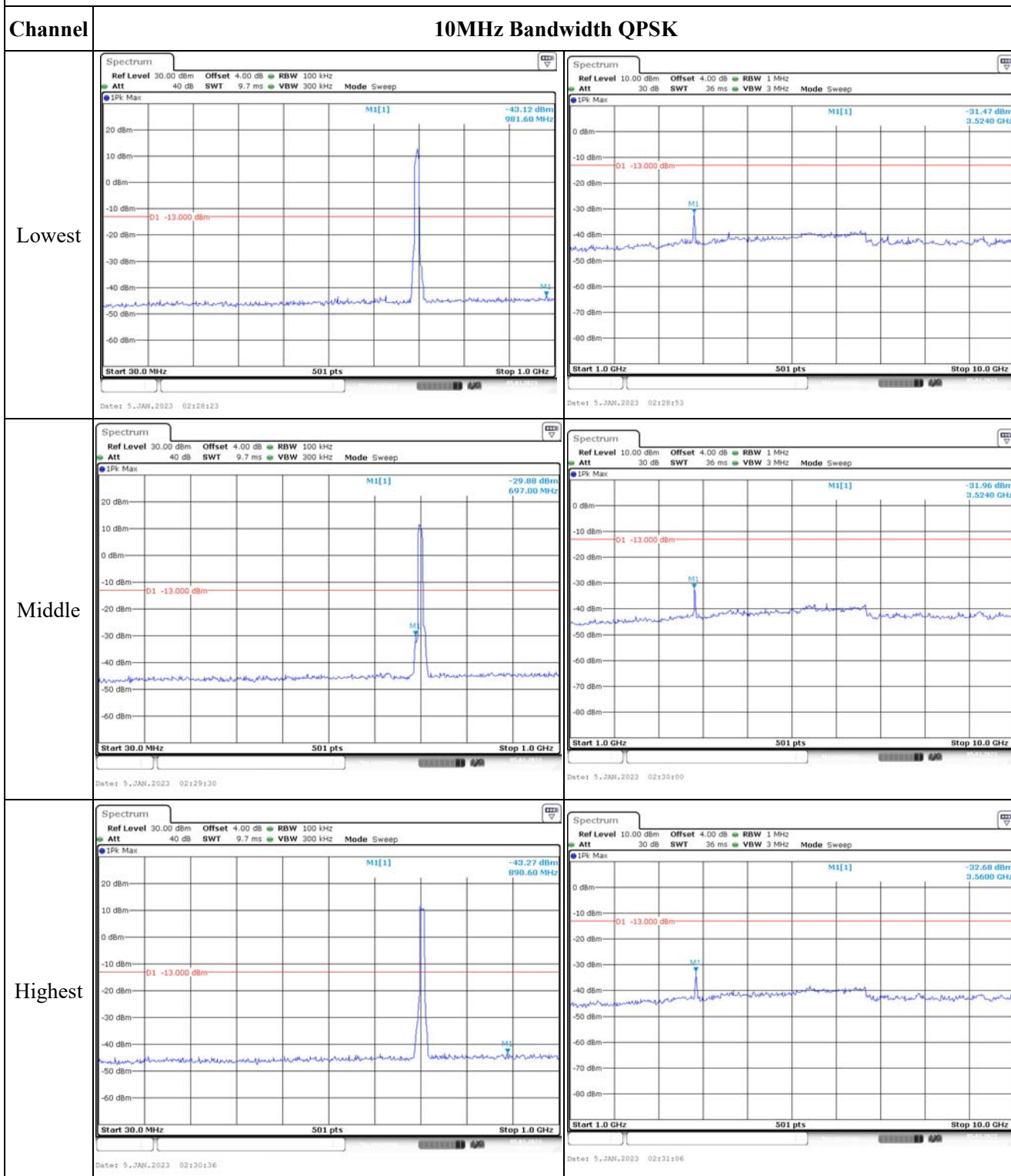
Middle



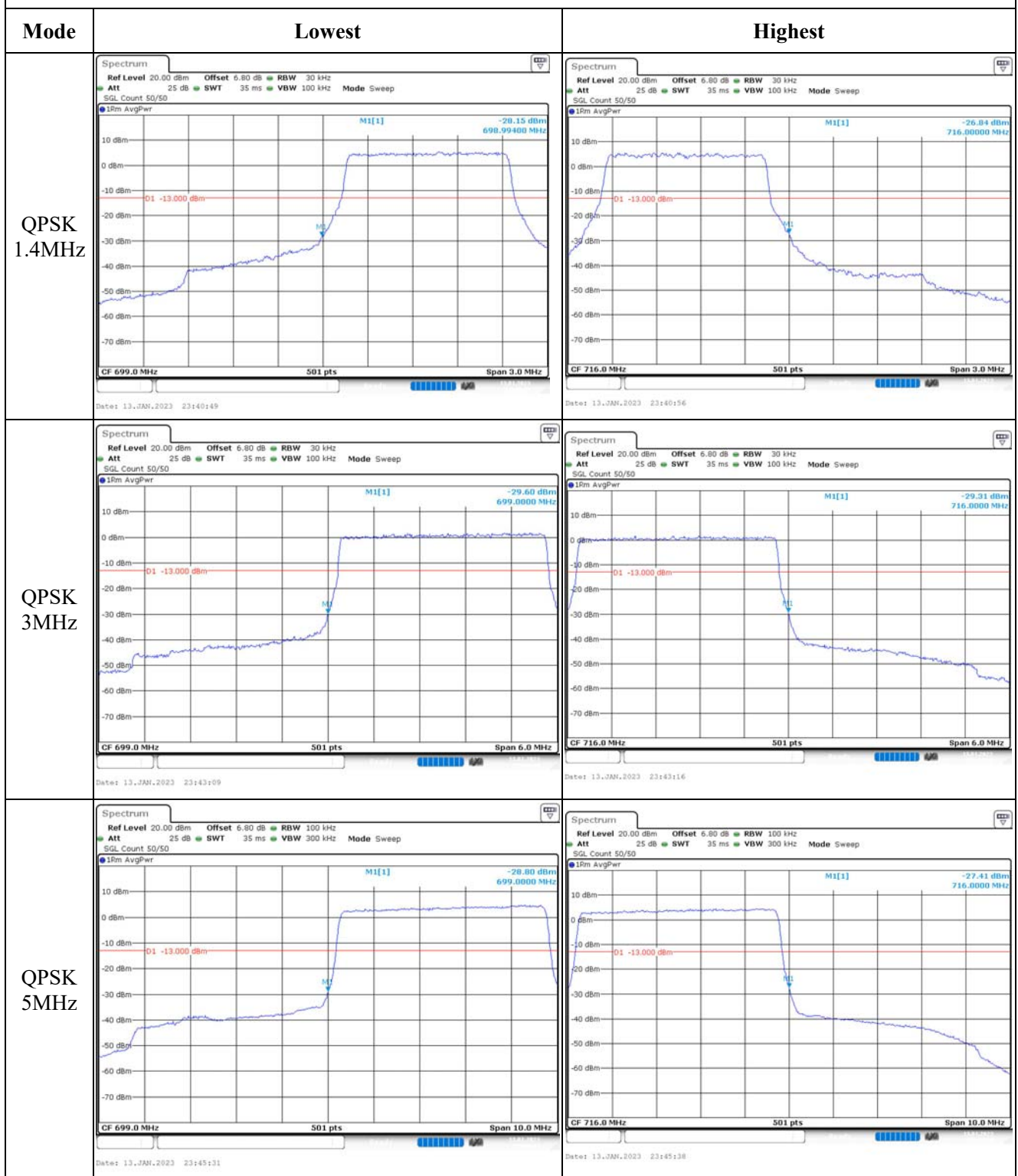
Highest

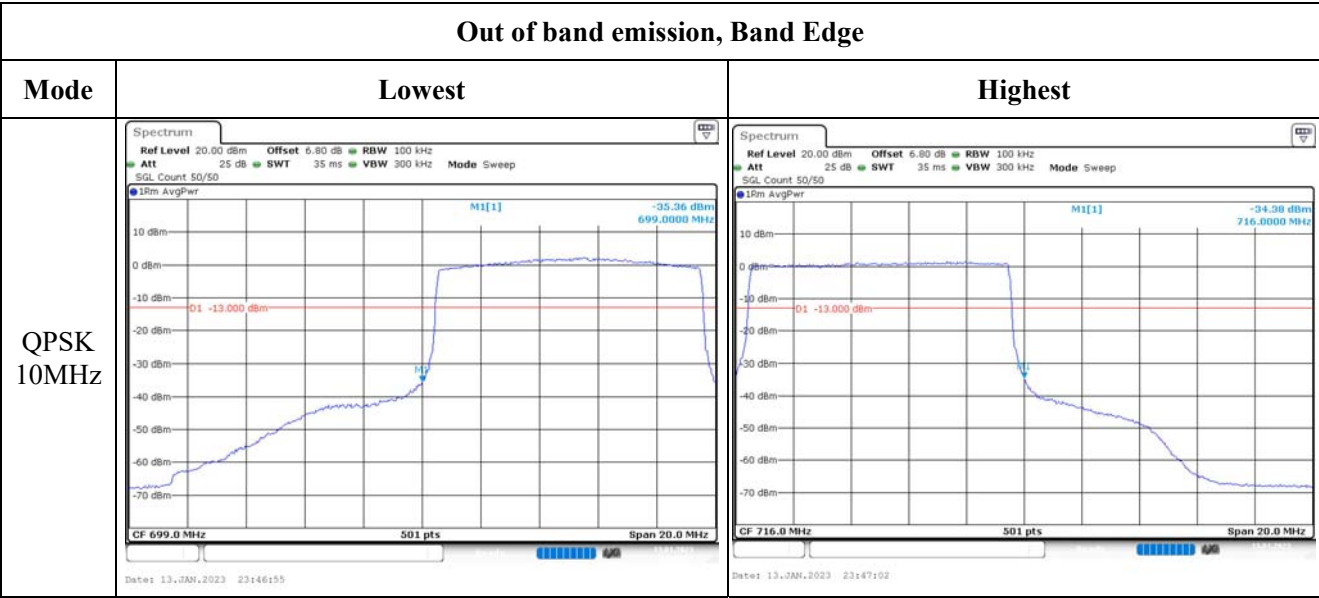


Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge





4.6 Antenna Port Test Data and Results for LTE Band 13

Serial Number:	1WJB-1	Test Date:	2023/1/6~2023/1/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Weinschel	Power splitter	1515	RA915	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:**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	22.1	/	22.24	20	34.77
	RB1#13	22.38	/	22.21		
	RB1#24	22.15	/	22.37		
	RB15#0	21.51	/	21.57		
	RB15#10	21.46	/	21.54		
	RB25#0	21.42	/	21.51		
10MHz QPSK	RB1#0	/	22.25	/	20.27	34.77
	RB1#25	/	22.65	/		
	RB1#49	/	22.4	/		
	RB25#0	/	21.44	/		
	RB25#25	/	21.45	/		
	RB50#0	/	21.51	/		

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	/	5.01	/	13
	RB50#0	/	4.87	/	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	/	4.551	4.98	/	5.04
10MHz QPSK	/	8.902	/	/	9.6	/

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.
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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	5	777.580	777.00	786.483	787.00
	-20	5	777.578	777.00	786.480	787.00
	-10	5	777.576	777.00	786.476	787.00
	0	5	777.575	777.00	786.472	787.00
	10	5	777.572	777.00	786.471	787.00
	20	5	777.569	777.00	786.471	787.00
	30	5	777.566	777.00	786.469	787.00
	40	5	777.566	777.00	786.466	787.00
	50	5	777.565	777.00	786.464	787.00
Frequency Stability vs. Voltage	20	4.5	777.571	777.00	786.471	787.00
	20	5.5	777.567	777.00	786.471	787.00
Result:					Pass	

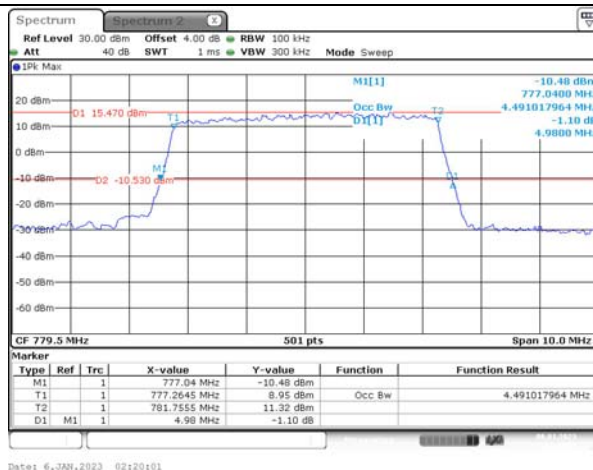
Test Plots(Note: The 4.0dB or 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

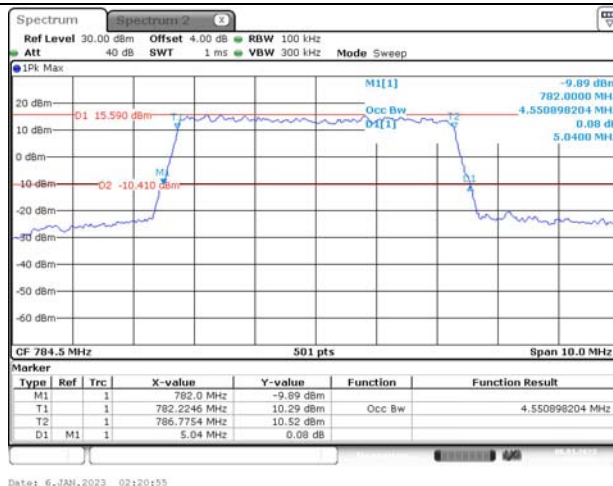
Channel

5MHz Bandwidth QPSK

Lowest



Highest

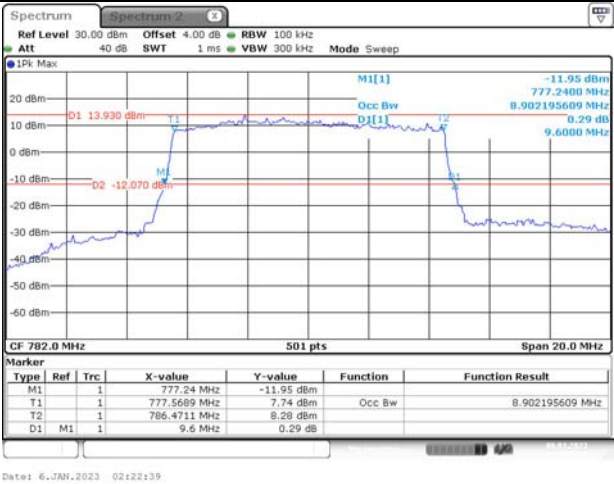


Occupied Bandwidth

Channel

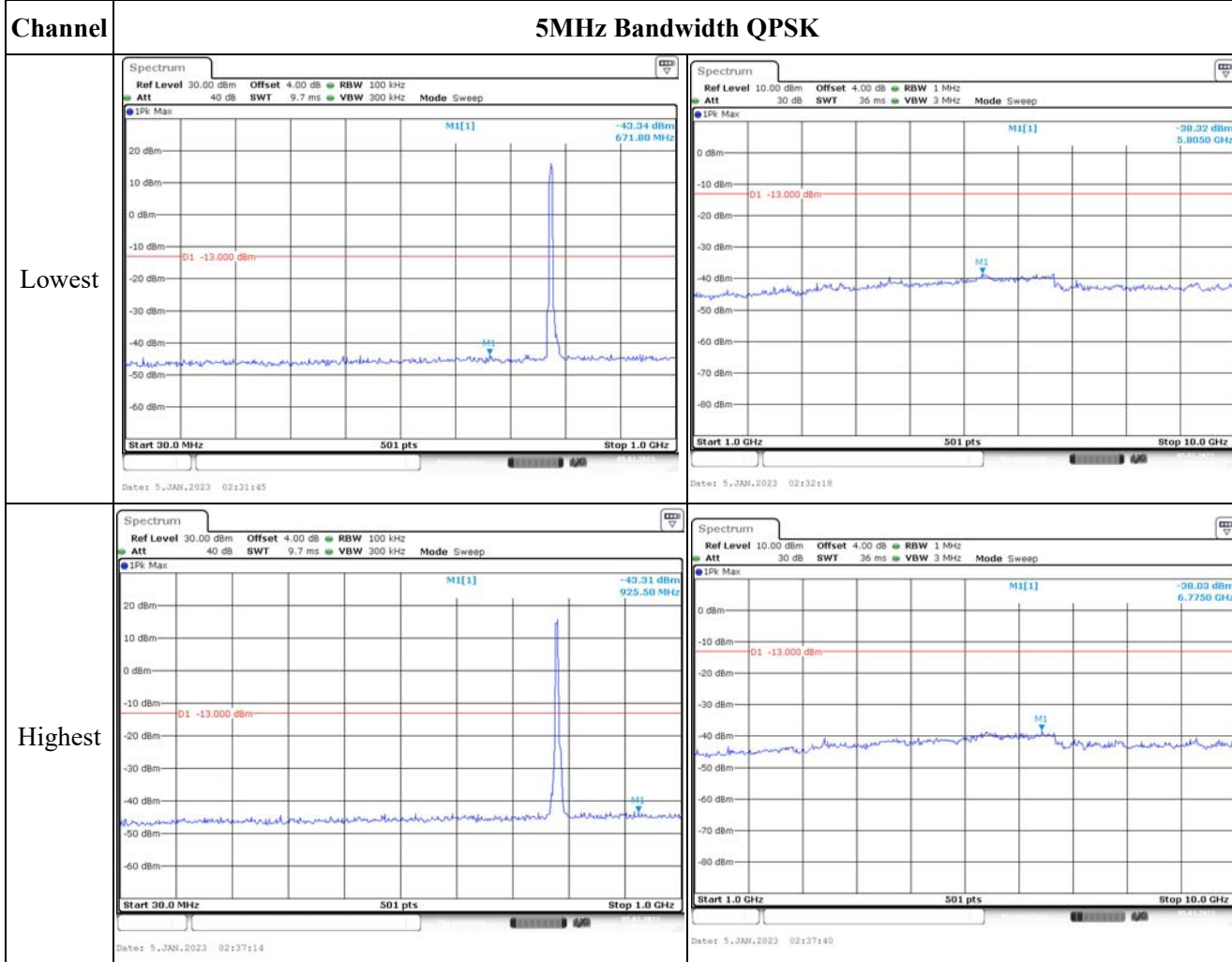
10MHz Bandwidth QPSK

Middle



30MHz-10GHz:

Spurious Emissions at Antenna Terminal

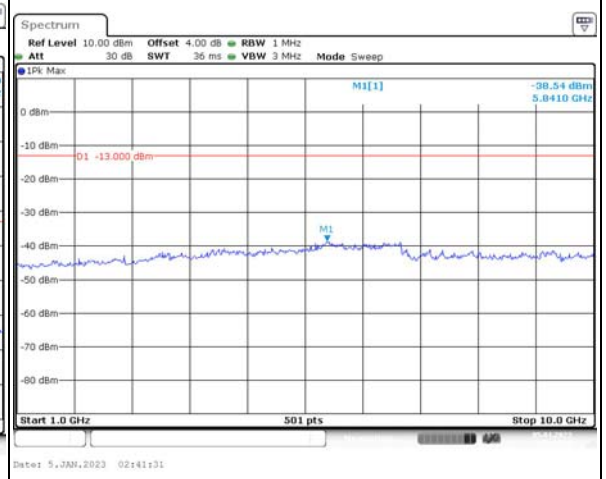
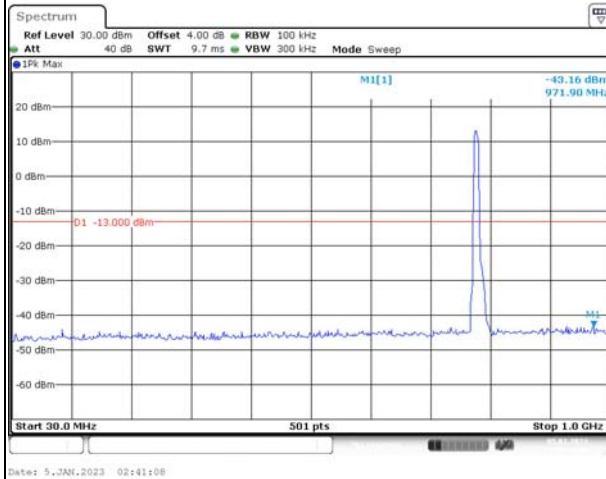


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

Middle



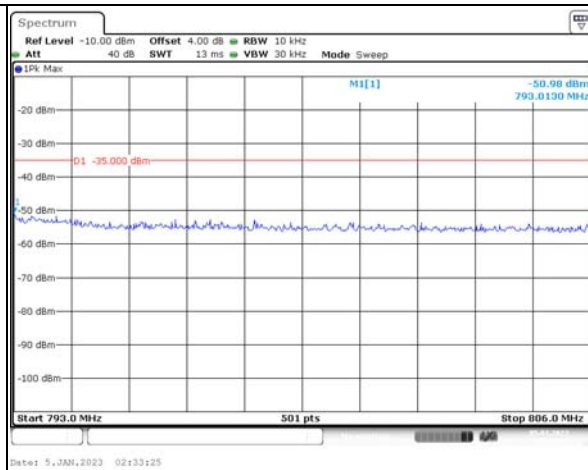
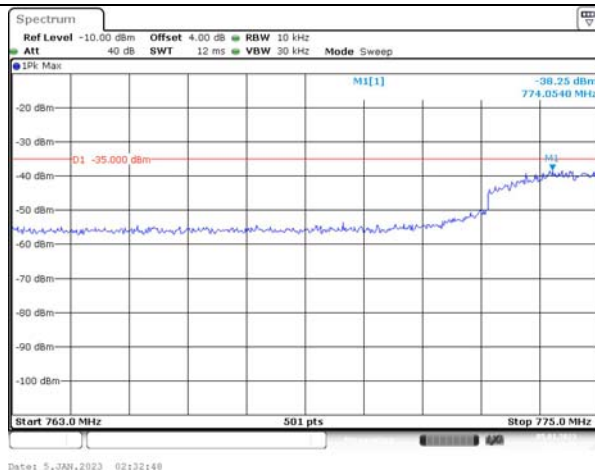
763MHz-806MHz:

Spurious Emissions at Antenna Terminal

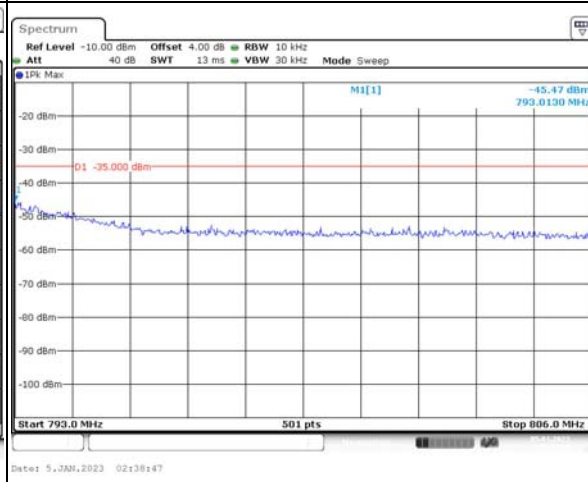
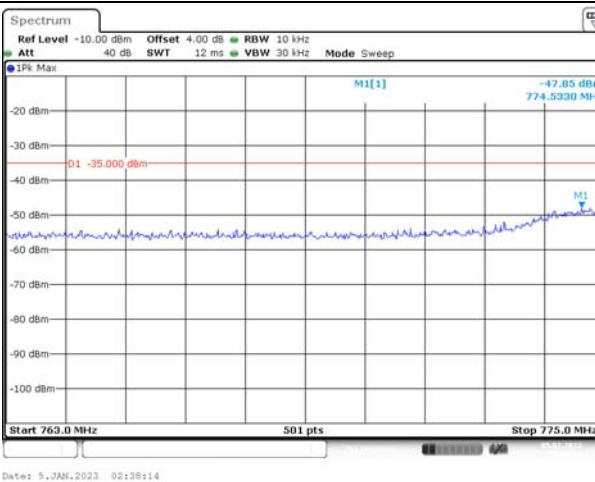
Channel

5MHz Bandwidth QPSK

Lowest



Highest

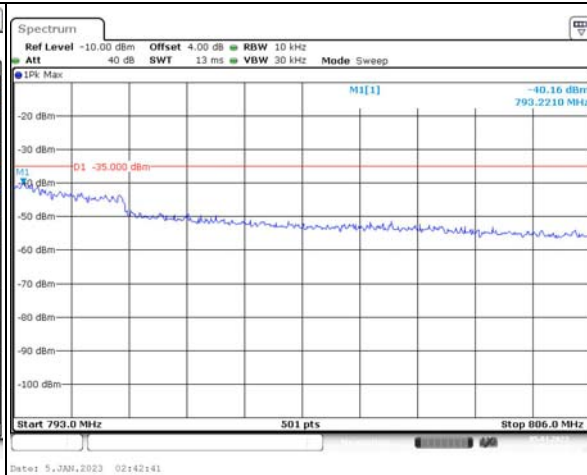
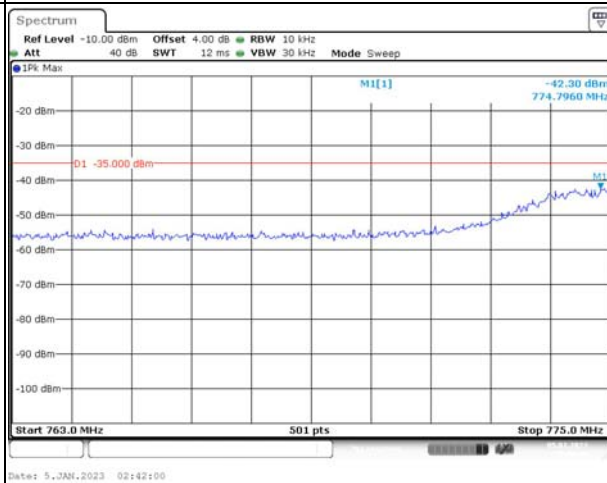


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

Middle



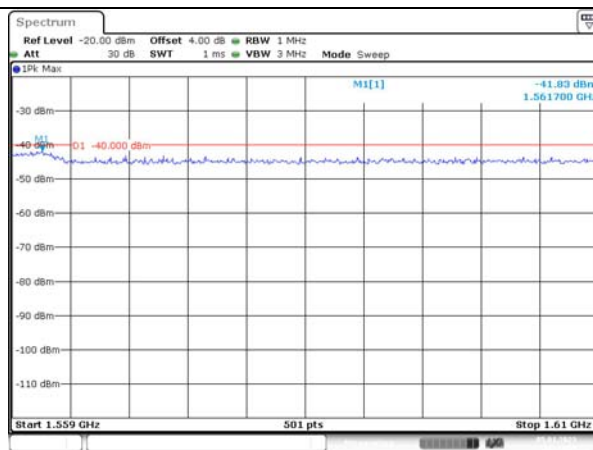
1.5590GHz-1.61GHz:

Spurious Emissions at Antenna Terminal

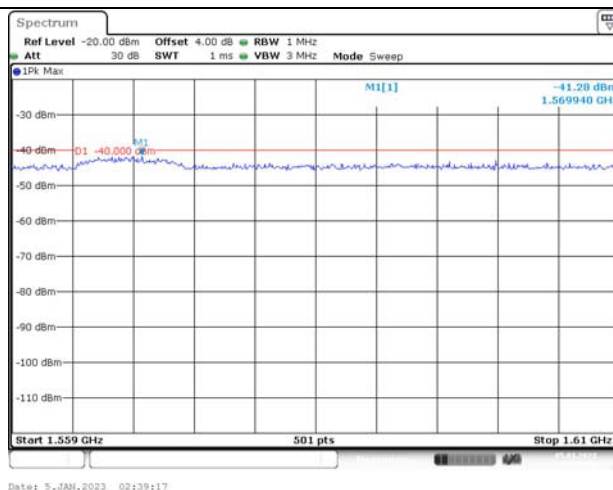
Channel

5MHz Bandwidth QPSK

Lowest



Highest

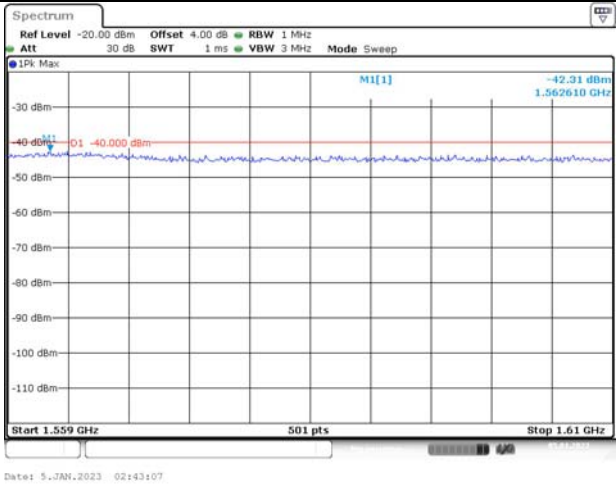


Spurious Emissions at Antenna Terminal

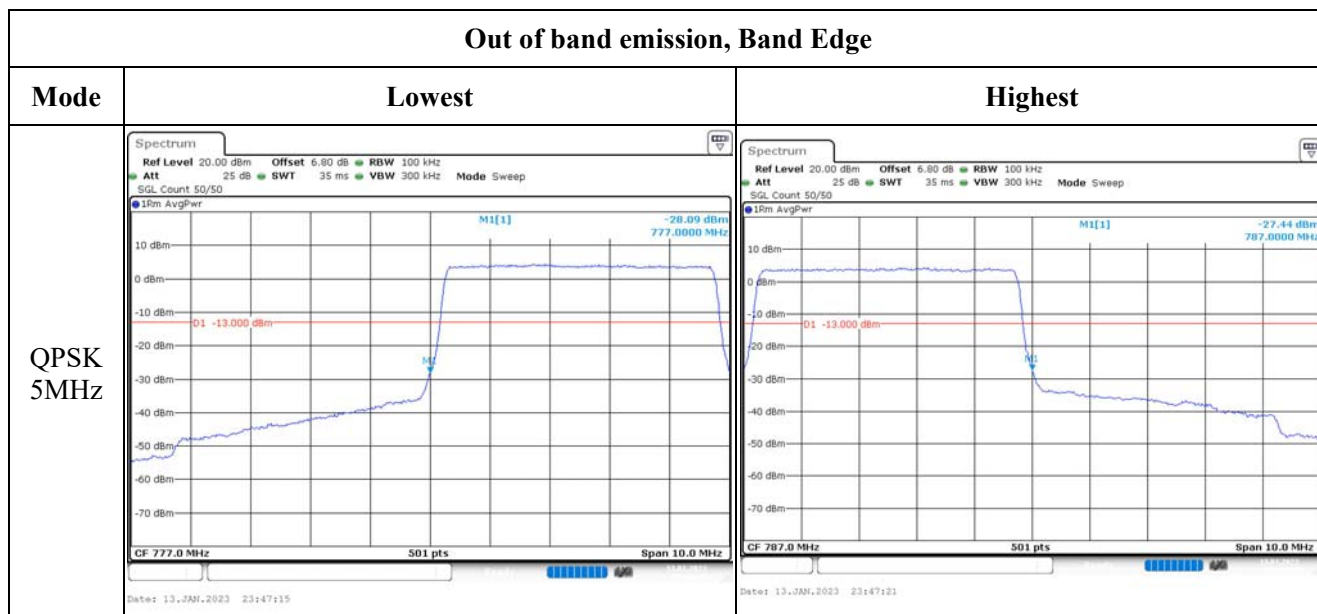
Channel

10MHz Bandwidth QPSK

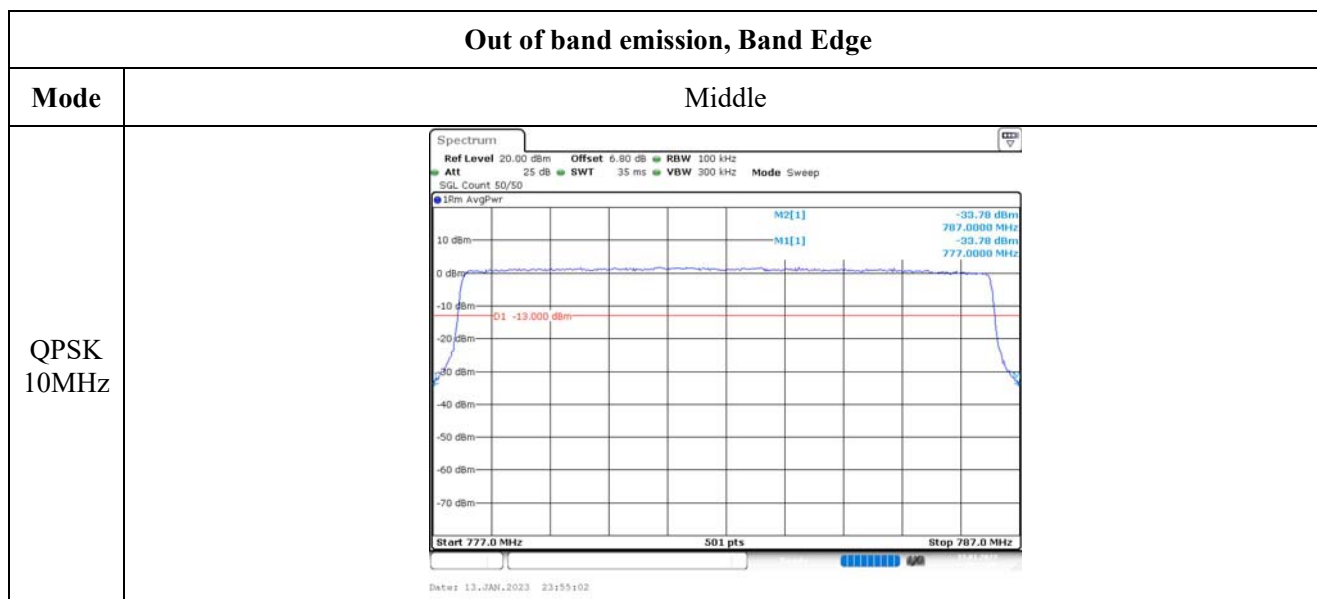
Middle



Out of band emission, Band Edge



Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	1WJB-1	Test Date:	2023/1/6~2023/1/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Weinschel	Power splitter	1515	RA915	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	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	21.36	21.19	21.09	19.06	34.77
	RB1#13	21.34	21.33	21.29		
	RB1#24	20.93	21.32	21.44		
	RB15#0	20.42	20.36	20.23		
	RB15#10	20.39	20.14	20.41		
	RB25#0	20.5	20.29	20.27		
10MHz QPSK	RB1#0	21.45	21.32	21.3	19.16	34.77
	RB1#25	21.41	21.37	21.16		
	RB1#49	21.54	21.47	21.32		
	RB25#0	20.53	20.36	20.38		
	RB25#25	20.31	20.32	20.38		
	RB50#0	20.36	20.3	20.37		

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	4.9	4.93	4.93	13
	RB50#0	5.33	5.45	5.42	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	4.511	4.551	4.98	5.02	5.06
10MHz QPSK	8.942	8.942	9.022	9.68	9.8	9.84
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.
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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.
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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	5	704.544	704.00	715.721	716.00
	-20	5	704.542	704.00	715.718	716.00
	-10	5	704.538	704.00	715.717	716.00
	0	5	704.535	704.00	715.715	716.00
	10	5	704.530	704.00	715.713	716.00
	20	5	704.529	704.00	715.711	716.00
	30	5	704.528	704.00	715.711	716.00
	40	5	704.527	704.00	715.709	716.00
	50	5	704.525	704.00	715.707	716.00
Frequency Stability vs. Voltage	20	4.5	704.533	704.00	715.713	716.00
	20	5.5	704.526	704.00	715.709	716.00
					Result:	Pass

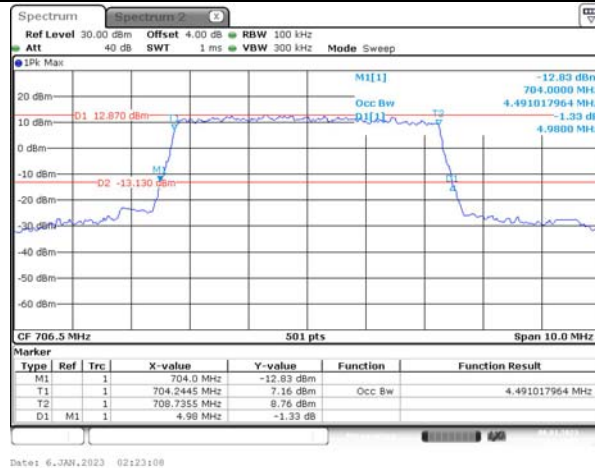
Test Plots(Note: The 4.0dB or 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

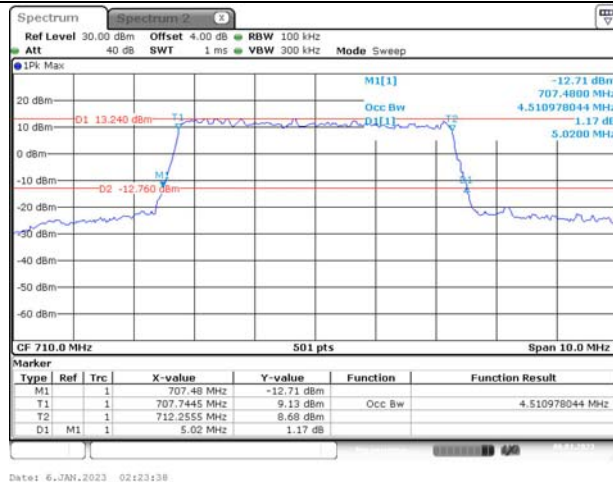
Channel

5MHz Bandwidth QPSK

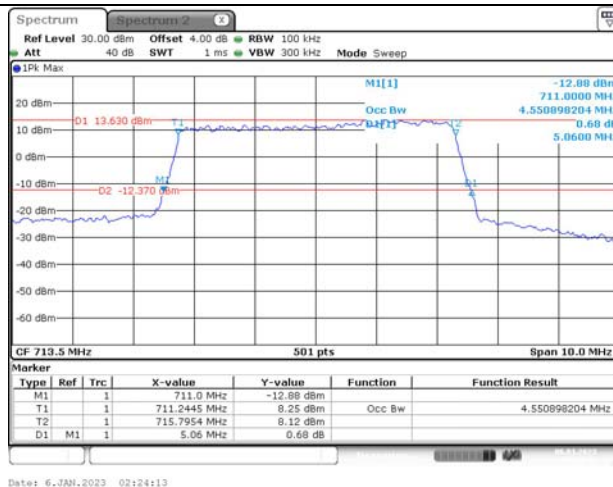
Lowest



Middle



Highest

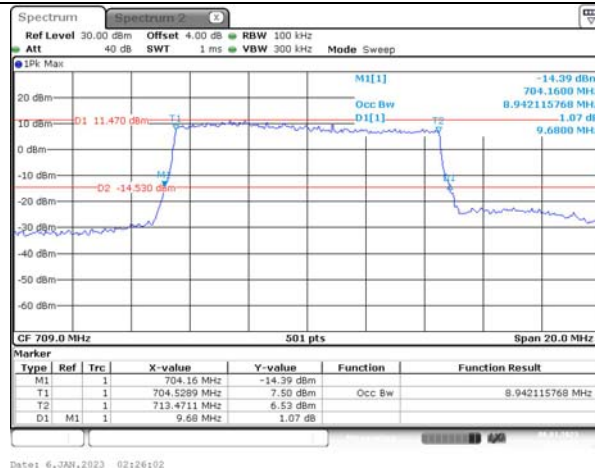


Occupied Bandwidth

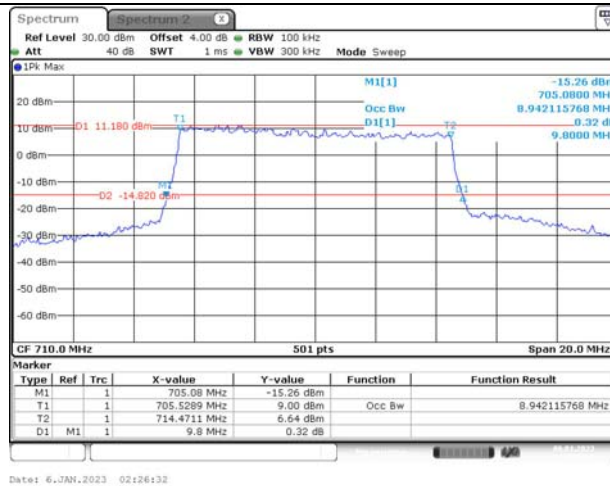
Channel

10MHz Bandwidth QPSK

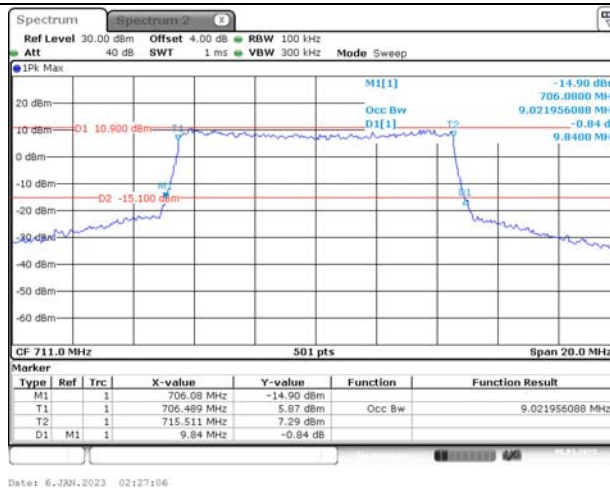
Lowest



Middle



Highest

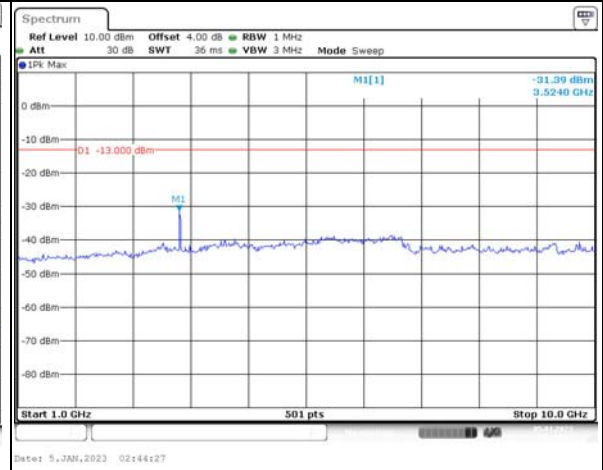
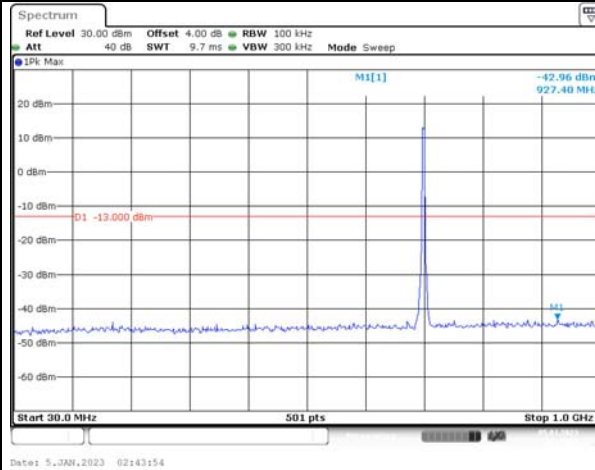


Spurious Emissions at Antenna Terminal

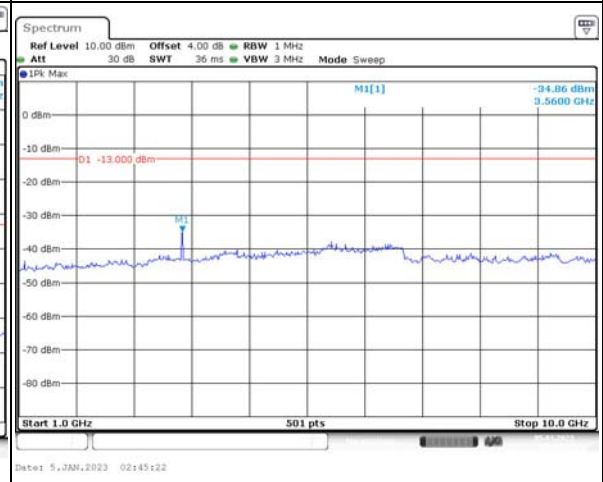
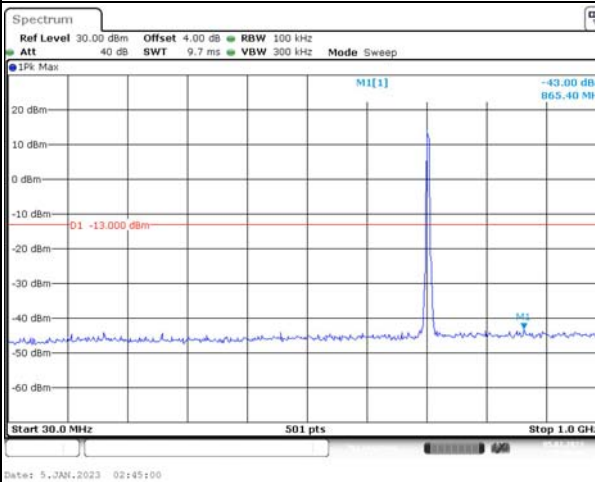
Channel

5MHz Bandwidth QPSK

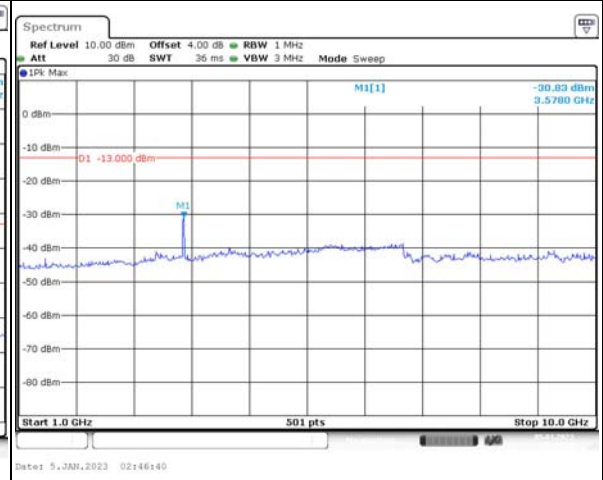
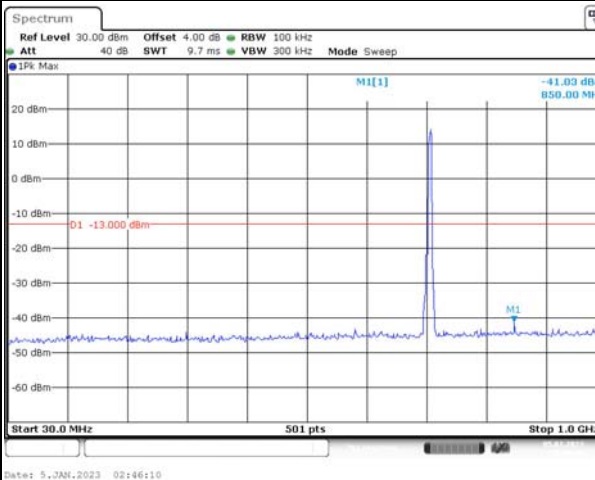
Lowest



Middle



Highest

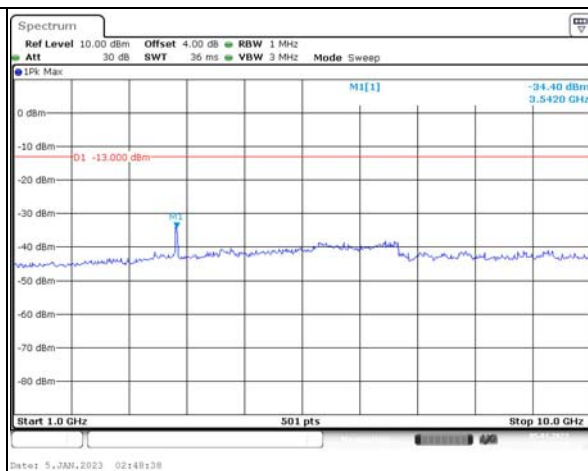
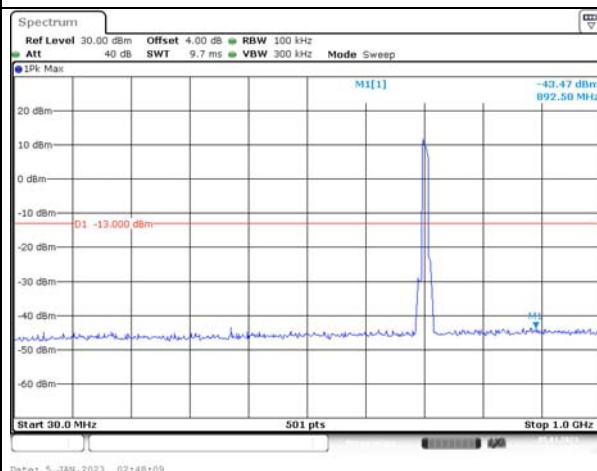


Spurious Emissions at Antenna Terminal

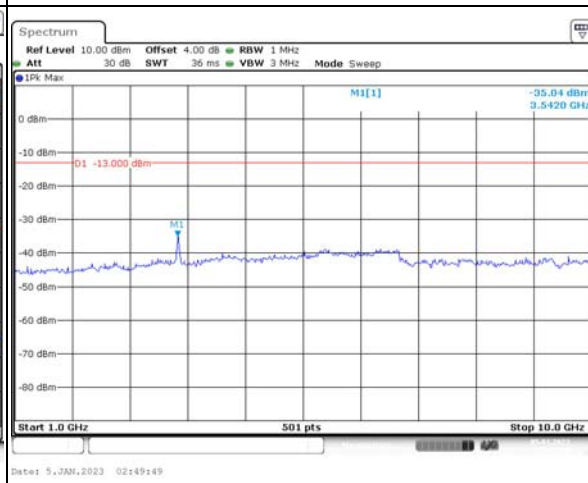
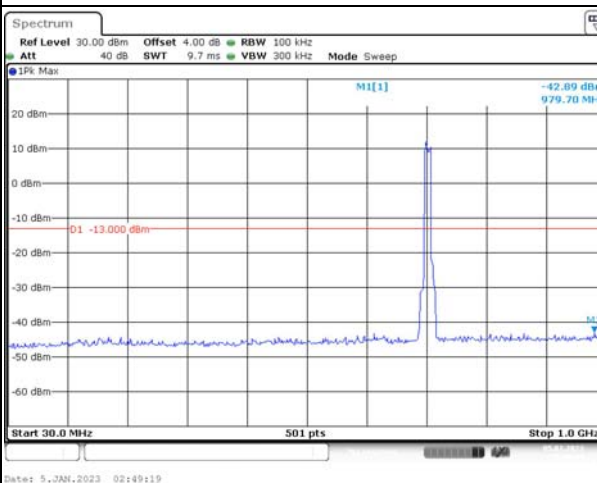
Channel

10MHz Bandwidth QPSK

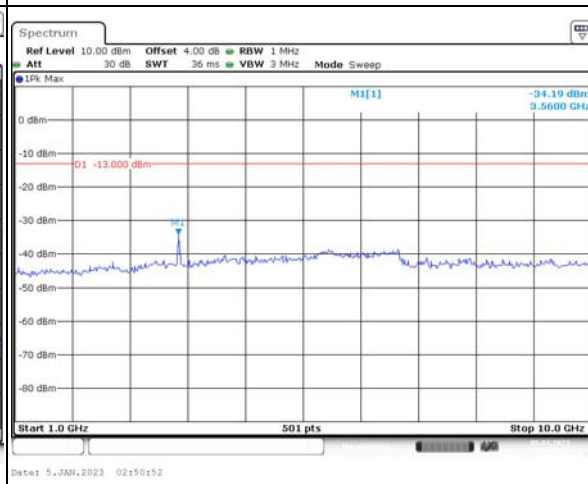
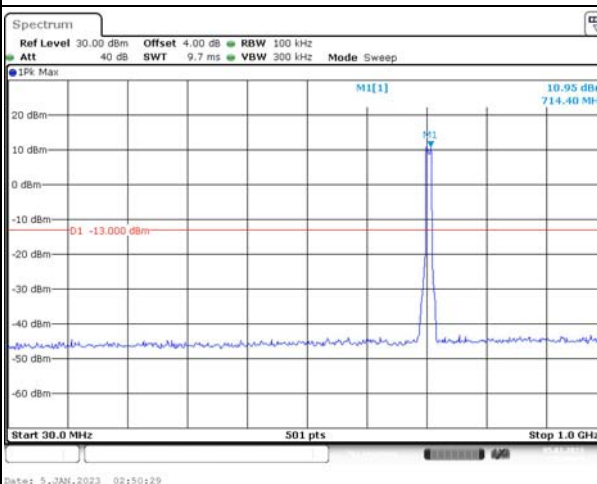
Lowest



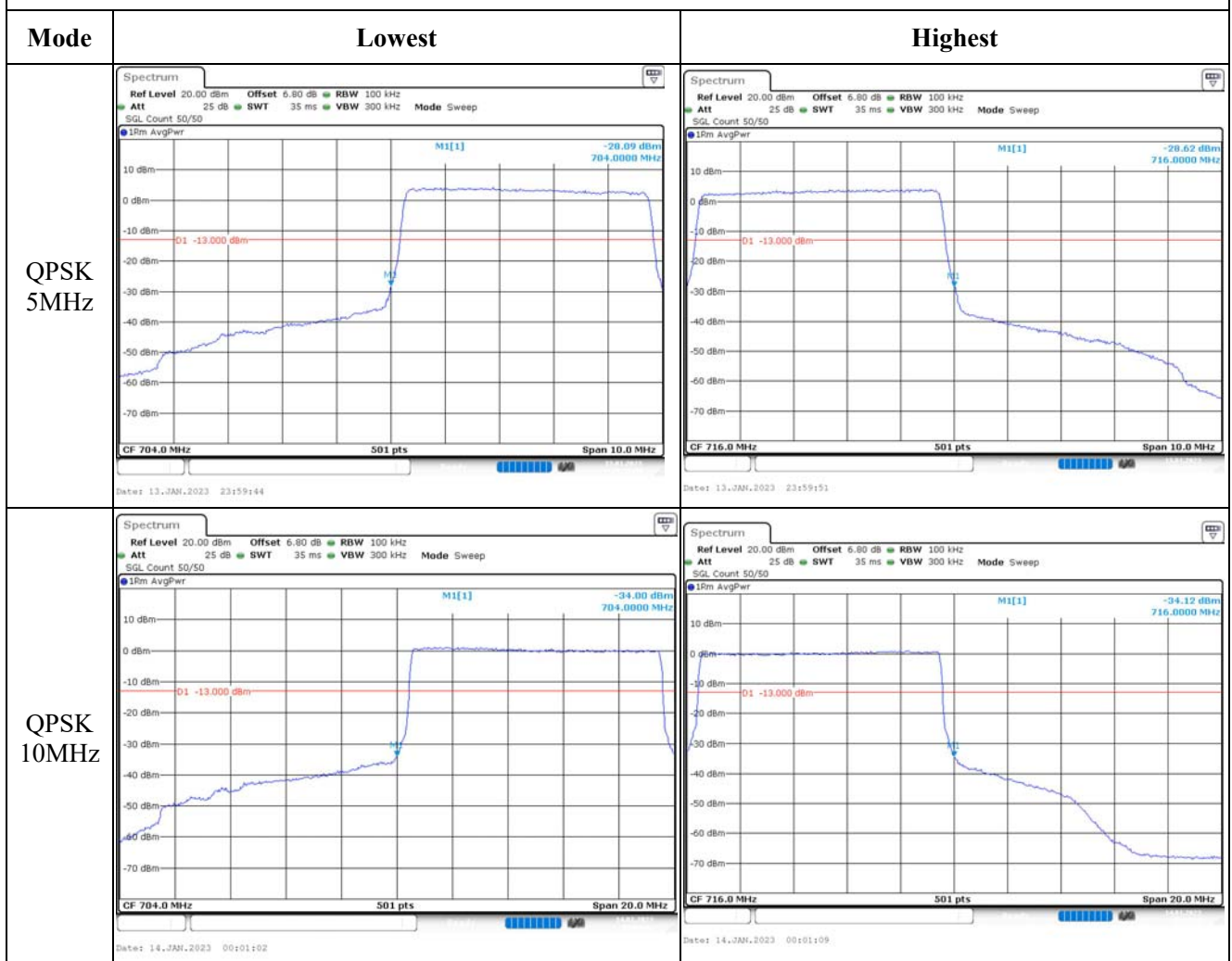
Middle



Highest



Out of band emission, Band Edge



4.8 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	1WJB-1	Test Date:	2023/1/6~2023/4/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
Weinschel	Power splitter	1515	RA915	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	2557.5	2605	2652.5
10MHz	2560	2605	2650
15MHz	2562.5	2605	2647.5
20MHz	2565	2605	2645

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	22.24	22.91	22.42	23.84	33
	RB1#13	22.2	22.98	22.43		
	RB1#24	22.18	23.04	22.37		
	RB15#0	21.29	21.89	21.63		
	RB15#10	21.28	21.88	21.66		
	RB25#0	21.25	21.85	21.61		
10MHz QPSK	RB1#0	22.24	23.27	22.98	24.21	33
	RB1#25	22.51	23.31	23.08		
	RB1#49	22.72	23.41	23.03		
	RB25#0	21.57	22.32	22.08		
	RB25#25	21.65	22.48	22.05		
	RB50#0	21.54	22.39	22.06		
15MHz QPSK	RB1#0	22.59	23.03	23.08	23.97	33
	RB1#38	22.63	23.17	23.14		
	RB1#74	22.72	23.11	23.17		
	RB36#0	21.62	22.39	22.11		
	RB36#39	21.64	22.3	22.16		
	RB75#0	21.62	22.34	22.13		
20MHz QPSK	RB1#0	22.35	23.22	23.08	24.21	33
	RB1#50	22.39	23.37	23		
	RB1#99	22.59	23.41	22.9		
	RB50#0	21.42	22.13	21.98		
	RB50#50	21.61	22.3	22.04		
	RB100#0	21.43	22.21	22		

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	8.9	5.22	8.84	13
	RB100#0	8.09	7.13	8.12	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	4.531	5.1	4.96	5.38
10MHz QPSK	8.982	8.942	8.982	10	9.88	9.88
15MHz QPSK	13.473	13.533	13.593	15.06	16.02	15.42
20MHz QPSK	17.964	17.964	17.964	19.84	20.24	19.76

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.
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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.
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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	5	2556.070	2555.00	2653.990	2655
	-20	5	2556.066	2555.00	2653.997	2655
	-10	5	2556.063	2555.00	2654.063	2655
	0	5	2556.062	2555.00	2654.004	2655
	10	5	2556.061	2555.00	2654.036	2655
	20	5	2556.058	2555.00	2654.022	2655
	30	5	2556.056	2555.00	2653.984	2655
	40	5	2556.053	2555.00	2654.017	2655
	50	5	2556.050	2555.00	2654.041	2655
Frequency Stability vs. Voltage	20	4.5	2556.058	2555.00	2654.029	2655
	20	5.5	2556.057	2555.00	2654.011	2655
Result:					Pass	

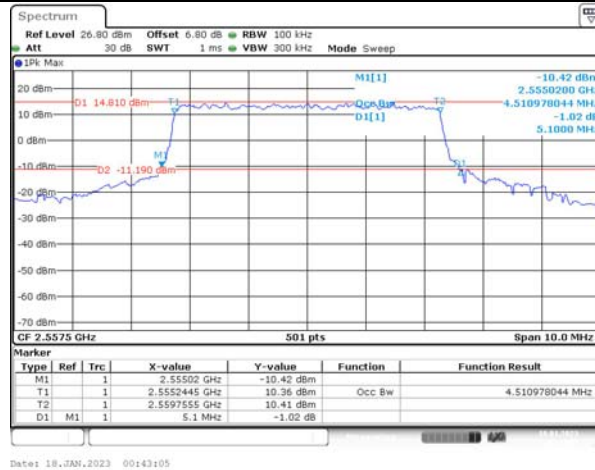
Test Plots(Note: The 4.0dB or 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

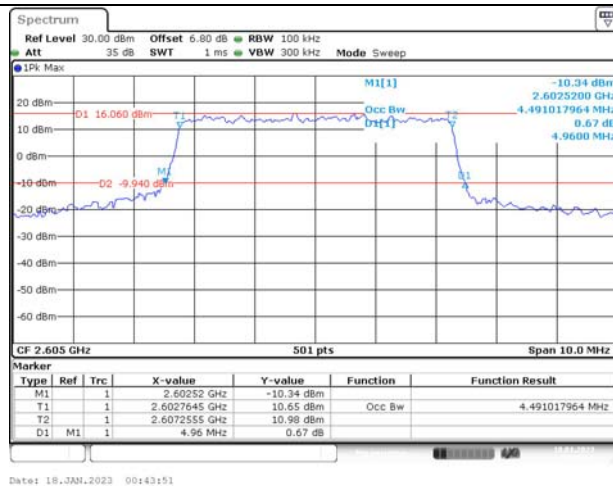
Channel

5MHz Bandwidth QPSK

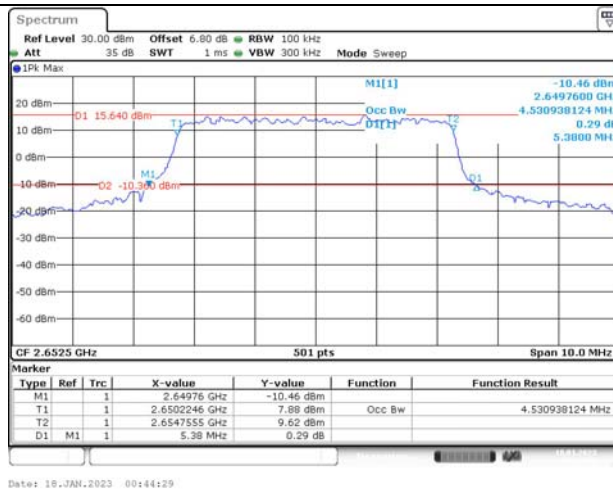
Lowest



Middle



Highest

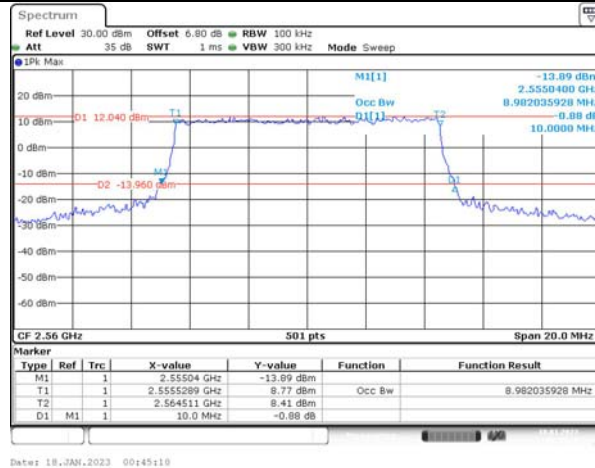


Occupied Bandwidth

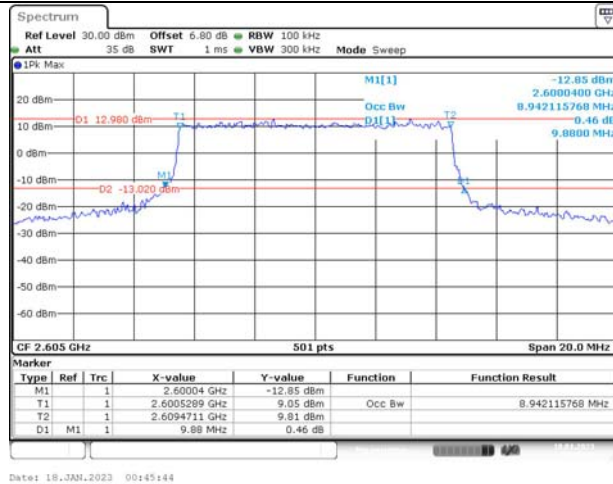
Channel

10MHz Bandwidth QPSK

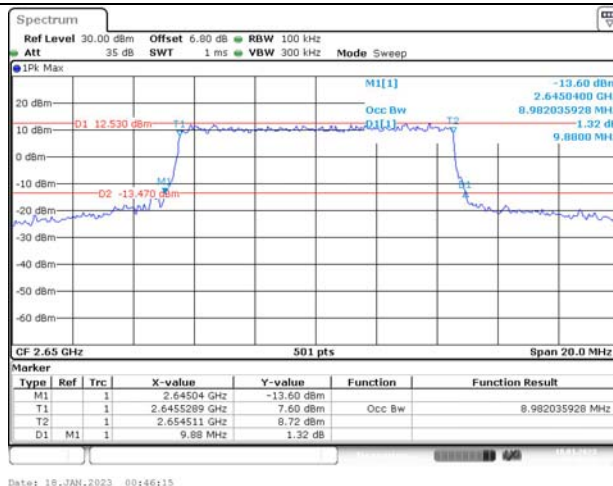
Lowest



Middle



Highest

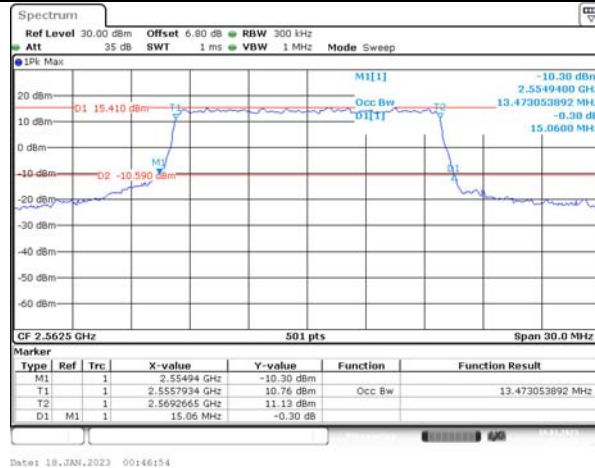


Occupied Bandwidth

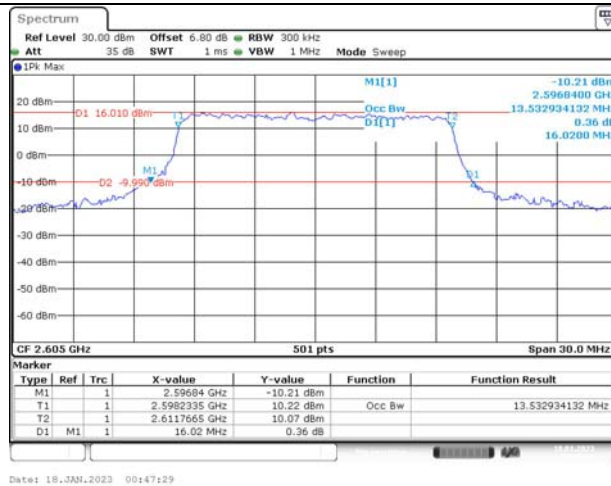
Channel

15MHz Bandwidth QPSK

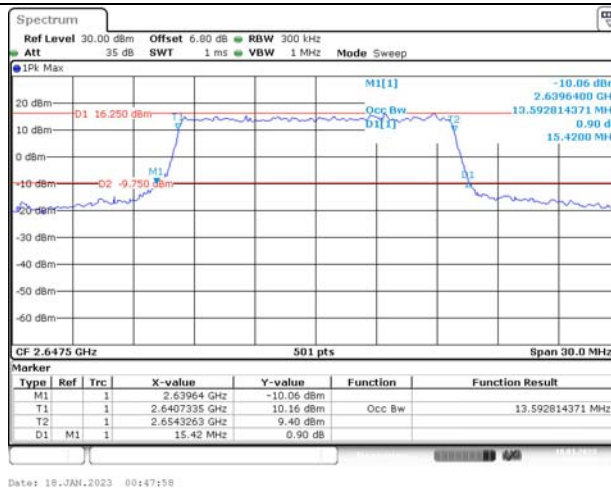
Lowest



Middle



Highest

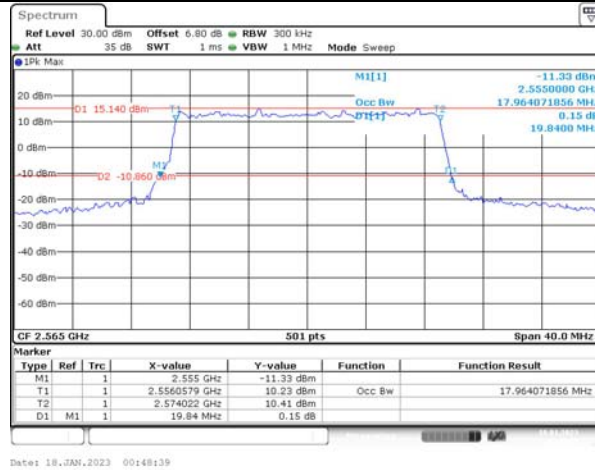


Occupied Bandwidth

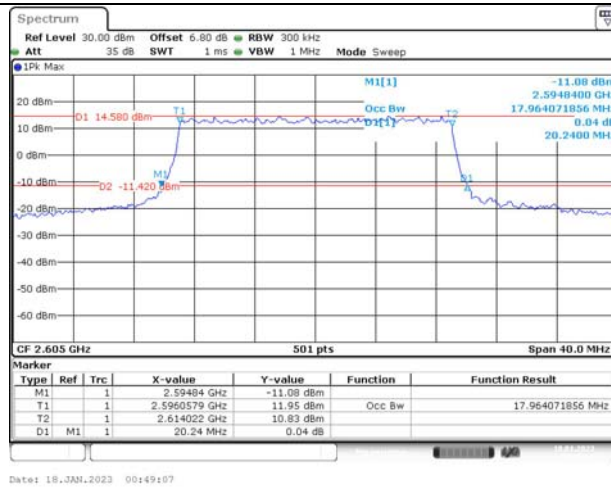
Channel

20MHz Bandwidth QPSK

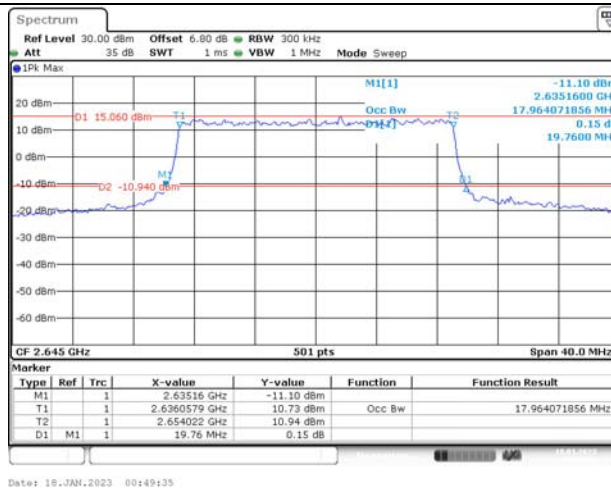
Lowest



Middle



Highest

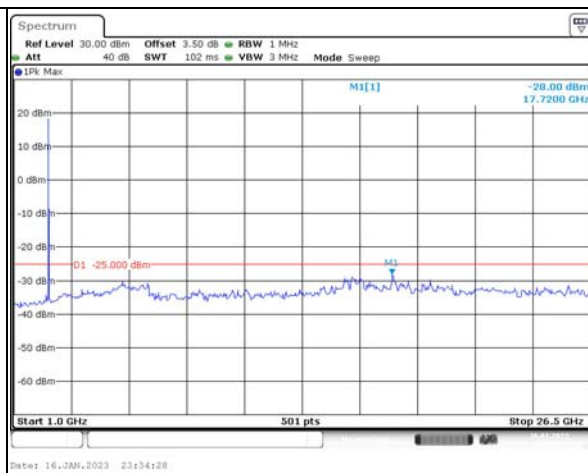
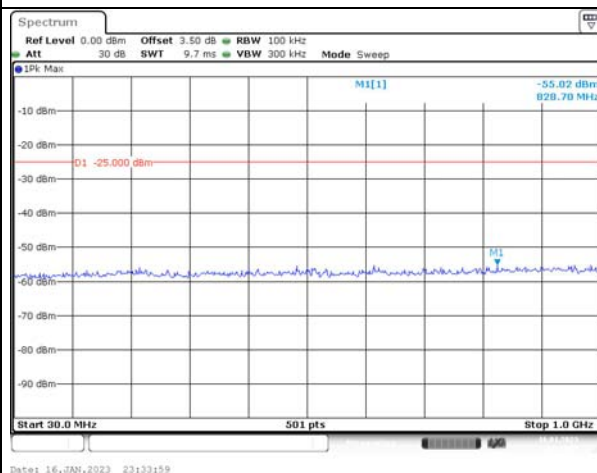


Spurious Emissions at Antenna Terminal

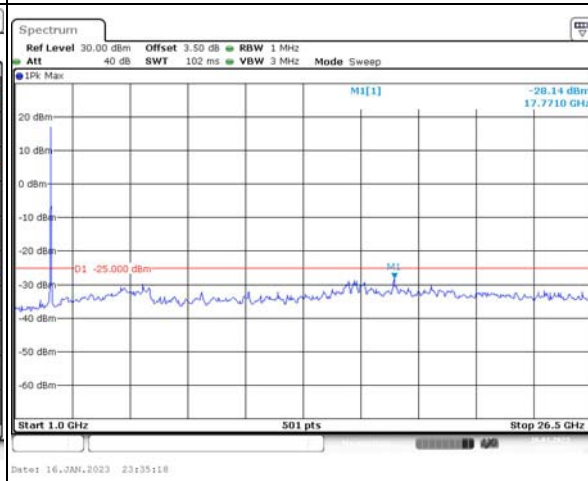
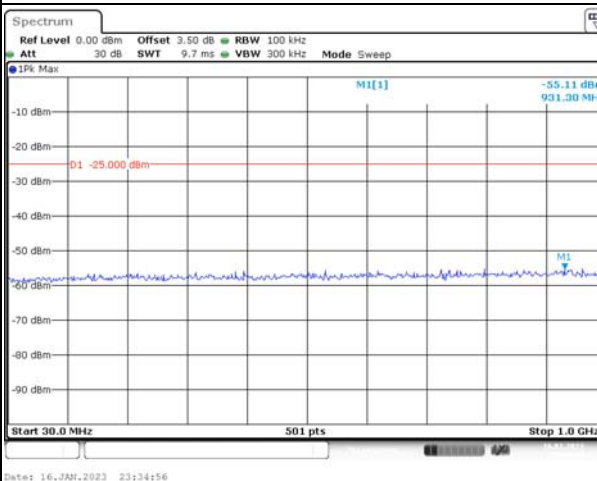
Channel

5MHz Bandwidth QPSK

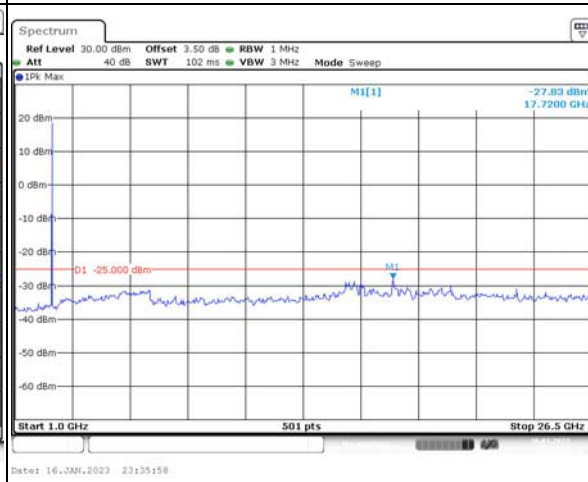
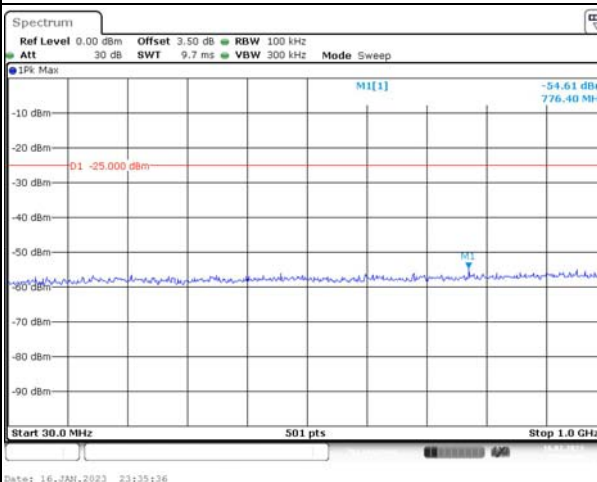
Lowest



Middle



Highest

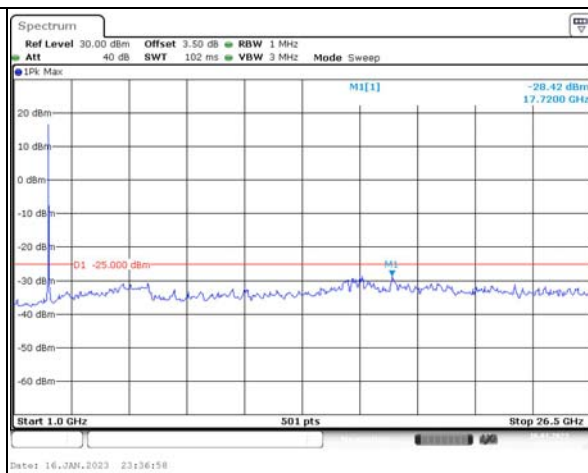
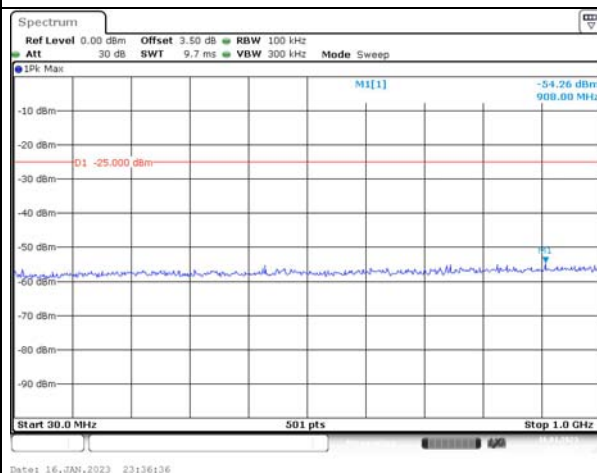


Spurious Emissions at Antenna Terminal

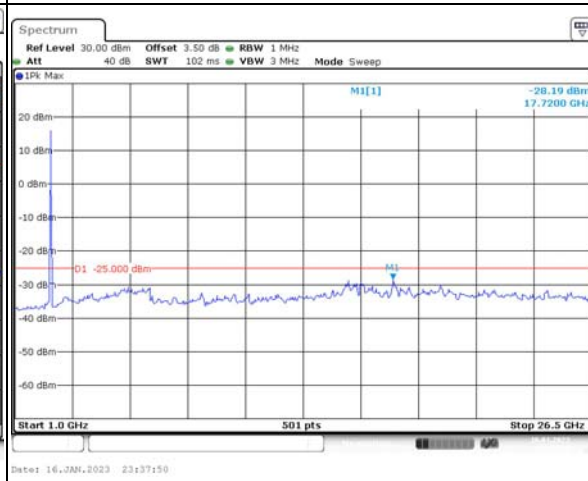
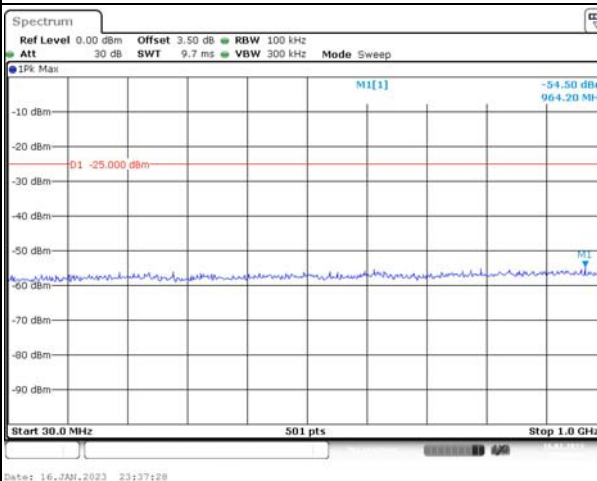
Channel

10MHz Bandwidth QPSK

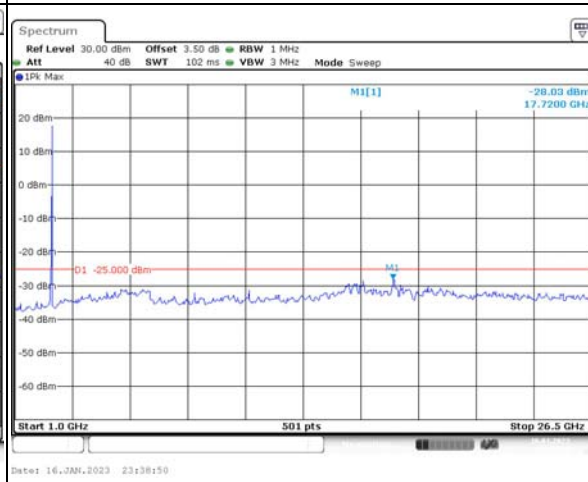
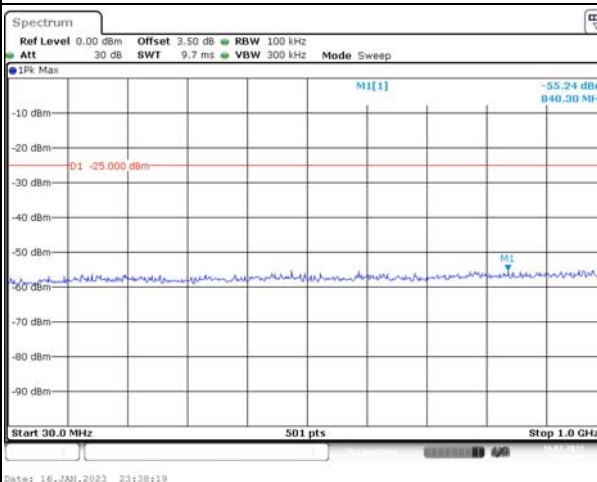
Lowest



Middle



Highest

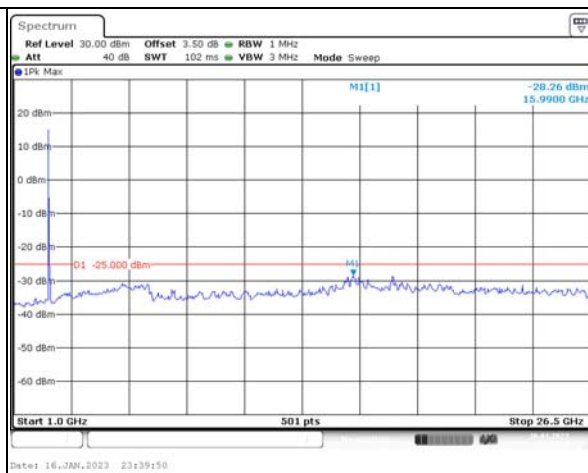
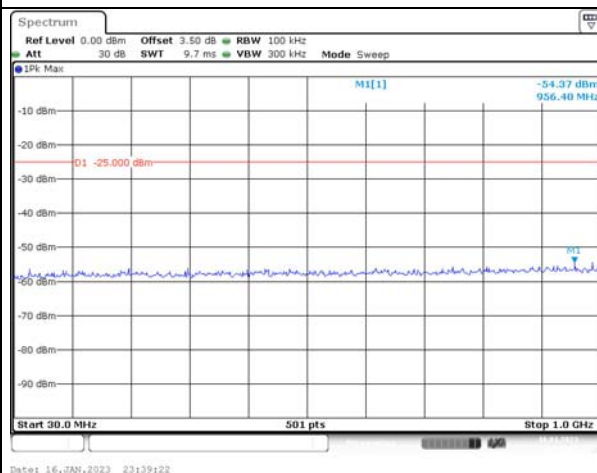


Spurious Emissions at Antenna Terminal

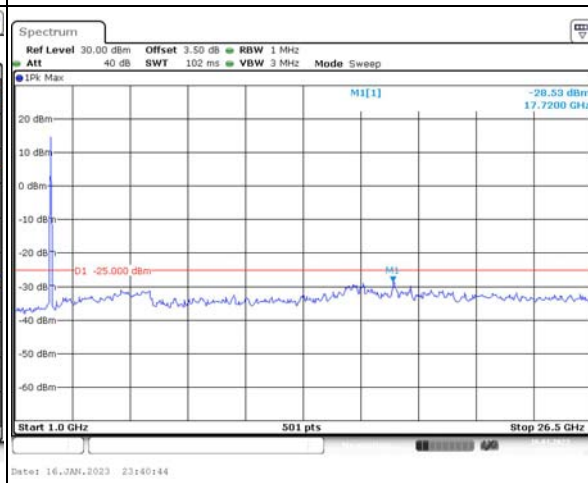
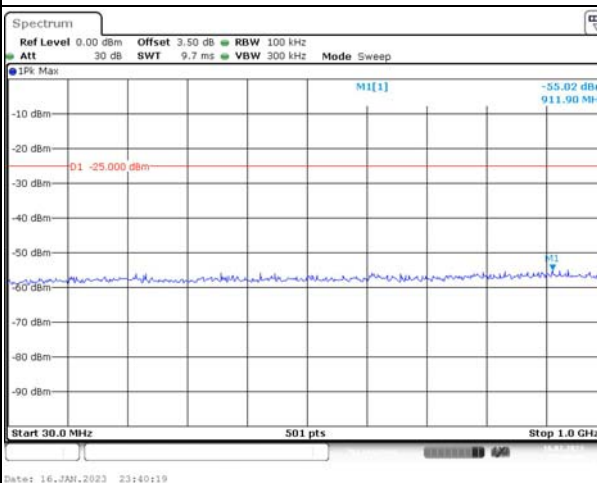
Channel

15MHz Bandwidth QPSK

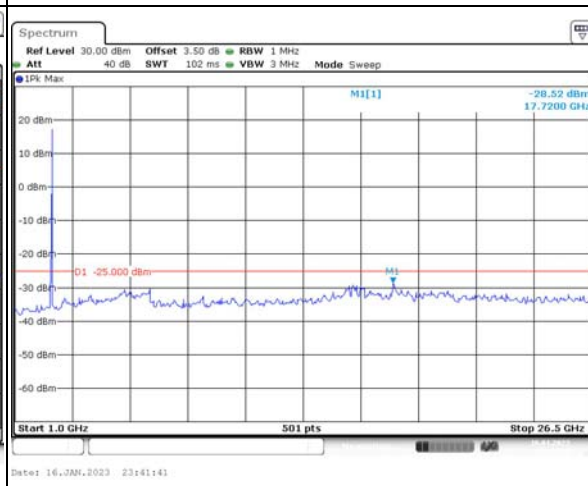
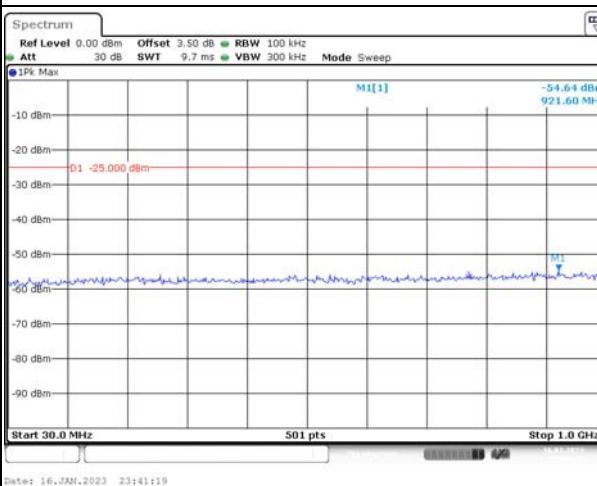
Lowest



Middle



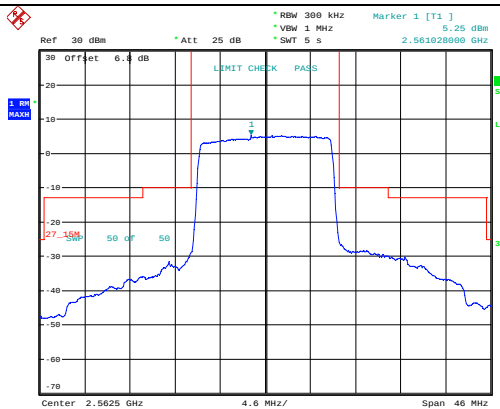
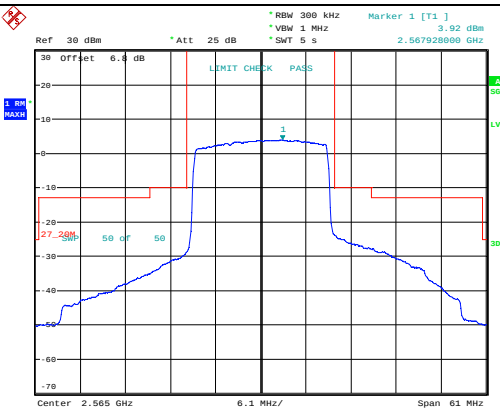
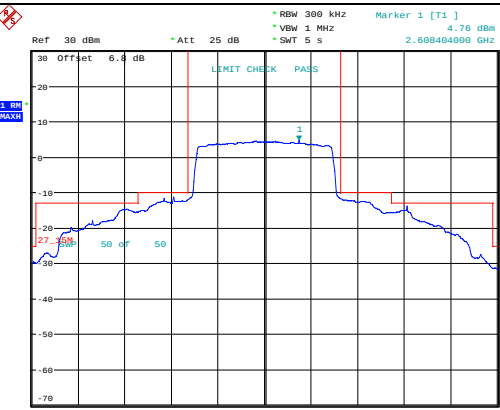
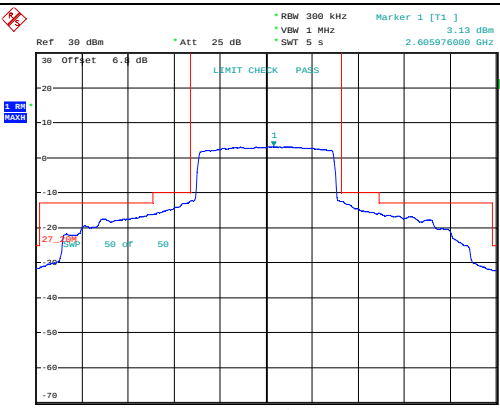
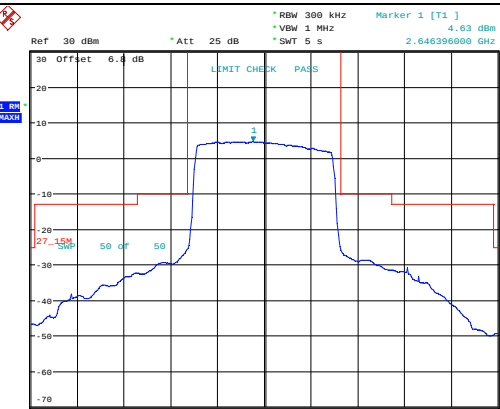
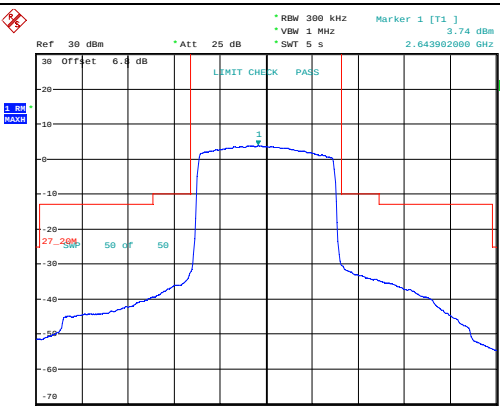
Highest



Out of band emission, Band Edge

Channel	5MHz Bandwidth QPSK	10MHz Bandwidth QPSK
Lowest	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 4.33 dBm 2.558292000 GHz Center 2.5575 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 13:55:41	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 2.17 dBm 2.563100000 GHz Center 2.56 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 14:13:20
Middle	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 4.02 dBm 2.605432000 GHz Center 2.605 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 14:00:57	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 1.06 dBm 2.608348000 GHz Center 2.605 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 14:24:06
Highest	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 4.85 dBm 2.563112000 GHz Center 2.5625 GHz 1.8 MHz/ Span 18 MHz Date: 8.APR.2023 14:06:10	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 s Marker 1 [T1] 1.59 dBm 2.648326000 GHz Center 2.65 GHz 3.1 MHz/ Span 31 MHz Date: 8.APR.2023 14:29:20

Out of band emission, Band Edge

Channel	15MHz Bandwidth QPSK	20MHz Bandwidth QPSK
Lowest	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 5.25 dBm 2.561928000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.5625 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 14:36:10	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 3.92 dBm 2.567928000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.565 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 14:53:37
Middle	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 4.76 dBm 2.608404000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.605 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 14:42:31	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 3.13 dBm 2.605976000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.605 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 14:58:53
Highest	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 4.63 dBm 2.646396000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.6475 GHz 4.6 MHz/ Span 46 MHz Date: 8.APR.2023 14:47:46	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 5 s Marker 1 [T1] 3.74 dBm 2.643992000 GHz 30 Offset 6.4 dB LIMIT CHECK PASS 27.50M 50 OF 50 Center 2.645 GHz 6.1 MHz/ Span 61 MHz Date: 8.APR.2023 15:04:01

4.9 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	1WJB-1	Test Date:	2023/1/6~2023/1/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinak Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5~24.6	Relative Humidity: (%)	47~61.5	ATM Pressure: (kPa)	101.2~101.8
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2022-09-29	2023-09-28
YINSAIGE	Coaxial Cable	SS402	SJ0100002	2022-08-07	2023-08-06
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	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)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:**FCC§2.1046;§ 27.50(d)(4)****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		
1.4MHz QPSK	RB1#0	22.52	23.25	23.11	24.26	30
	RB1#3	22.95	23.06	23		
	RB1#5	23.13	23.06	23.08		
	RB3#0	23.1	23.44	23.05		
	RB3#3	23.15	23.46	22.99		
	RB6#0	21.99	22.32	22.4		
3MHz QPSK	RB1#0	23.06	23.22	23.1	24.19	30
	RB1#8	23.3	23.07	22.95		
	RB1#14	23.28	23.39	22.92		
	RB6#0	21.98	22.44	22.19		
	RB6#9	22.2	22.06	21.91		
	RB15#0	22.14	22.13	22.3		
5MHz QPSK	RB1#0	22.66	22.95	23.25	24.05	30
	RB1#13	22.8	23.1	23.05		
	RB1#24	23.22	22.88	22.63		
	RB15#0	22.18	22.5	22.13		
	RB15#10	22.14	22.32	22.29		
	RB25#0	22.11	22.25	22.23		
10MHz QPSK	RB1#0	22.91	23.43	23.27	24.4	30
	RB1#25	23.6	23.07	23.44		
	RB1#49	23.36	22.9	22.84		
	RB25#0	22.15	22.53	22.17		
	RB25#25	22.42	22.14	21.92		
	RB50#0	22.23	22.4	22.02		
15MHz QPSK	RB1#0	22.62	23.58	23.05	24.38	30
	RB1#38	22.56	22.99	23.23		
	RB1#74	23.14	22.68	22.83		
	RB36#0	22.12	22.33	22.23		
	RB36#39	22.13	22.09	21.53		
	RB75#0	22.39	22.32	22.21		
20MHz QPSK	RB1#0	21.95	23.6	22.56	24.4	30
	RB1#50	23.34	23.49	23.3		
	RB1#99	23.25	22.55	23.07		
	RB50#0	22.15	22.52	22.33		
	RB50#50	22.35	22.19	22.03		
	RB100#0	22.53	22.45	22.08		

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	2.93	4.23	2.2	13
	RB100#0	3.48	3.57	4.03	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
1.4MHz QPSK	1.13	1.13	1.12	1.55	1.42	1.39
3MHz QPSK	2.72	2.71	2.71	3.13	3.04	3.04
5MHz QPSK	4.59	4.53	4.53	6.16	5.24	5.08
10MHz QPSK	8.98	8.94	8.94	12.64	9.72	9.76
15MHz QPSK	13.47	13.47	13.53	14.94	15.06	14.88
20MHz QPSK	17.96	17.96	17.88	19.2	19.44	19.6
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	5	1711.068	1710.00	1778.956	1780
	-20	5	1711.067	1710.00	1778.954	1780
	-10	5	1711.065	1710.00	1778.950	1780
	0	5	1711.065	1710.00	1778.945	1780
	10	5	1711.060	1710.00	1778.942	1780
	20	5	1711.058	1710.00	1778.942	1780
	30	5	1711.055	1710.00	1778.942	1780
	40	5	1711.053	1710.00	1778.941	1780
	50	5	1711.050	1710.00	1778.940	1780
Frequency Stability vs. Voltage	20	4.5	1711.059	1710.00	1778.944	1780
	20	5.5	1711.054	1710.00	1778.942	1780
					Result:	Pass

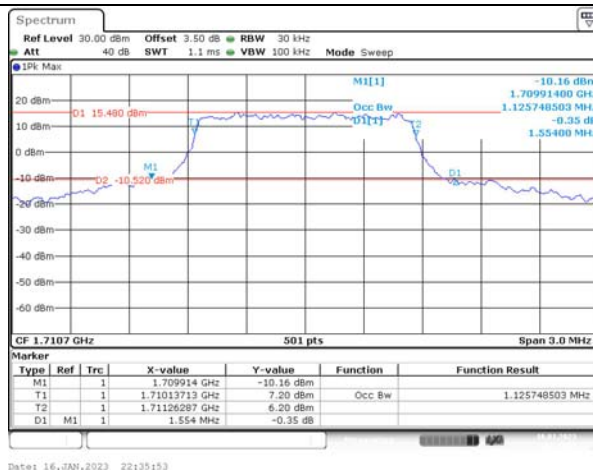
Test Plots(Note: The 3.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

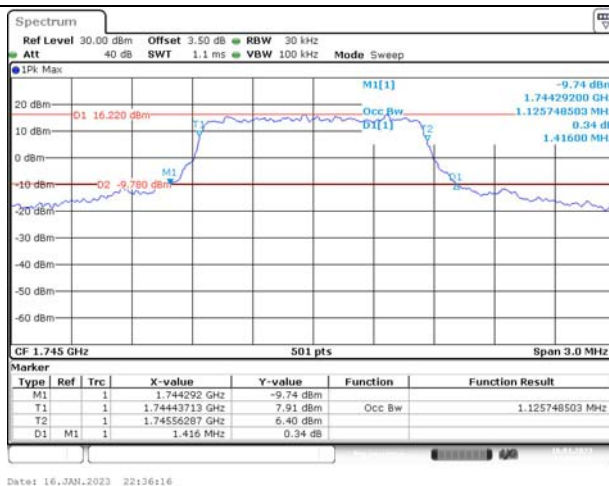
Channel

1.4MHz Bandwidth QPSK

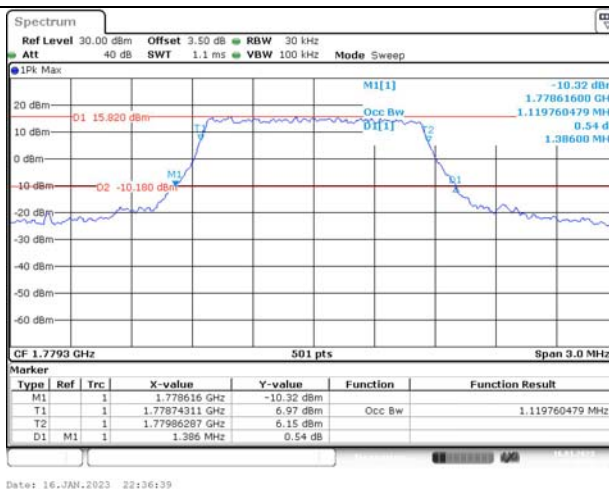
Lowest



Middle



Highest

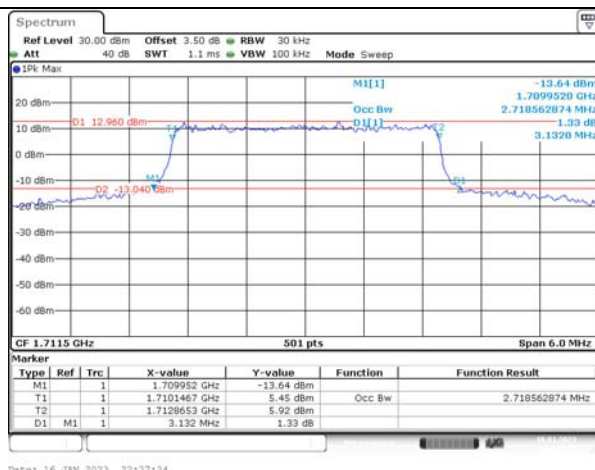


Occupied Bandwidth

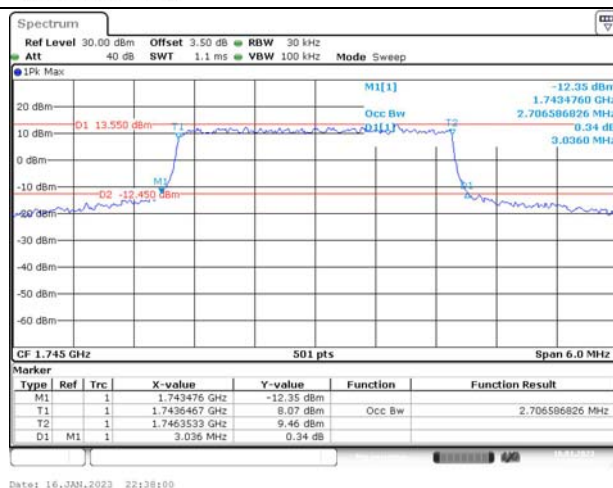
Channel

3MHz Bandwidth QPSK

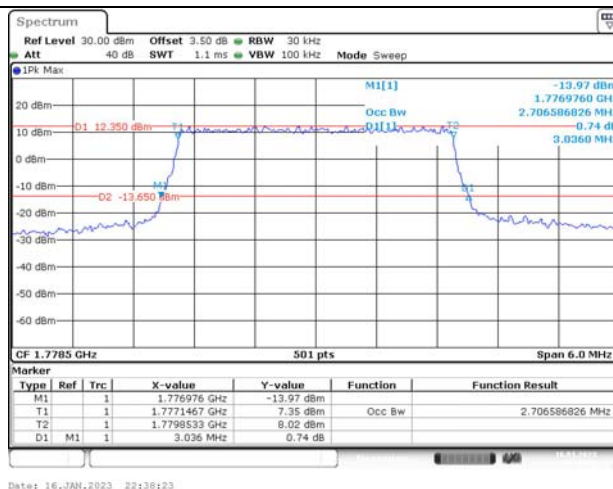
Lowest



Middle



Highest

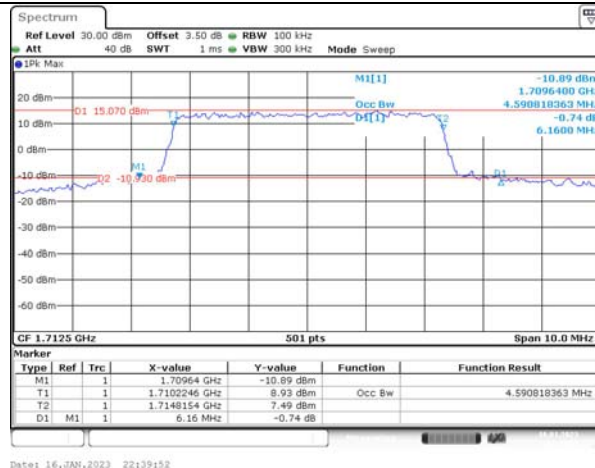


Occupied Bandwidth

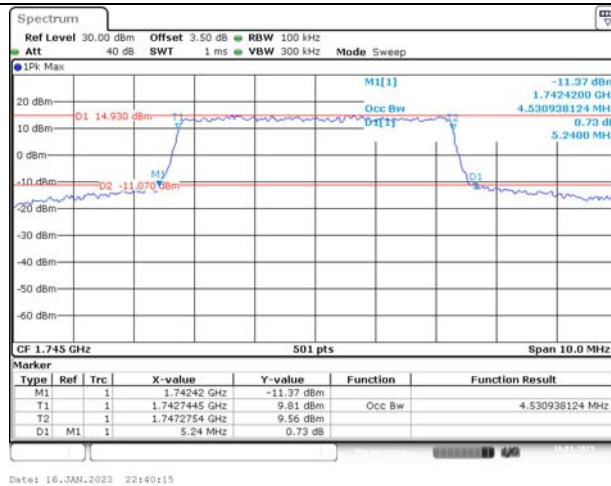
Channel

5MHz Bandwidth QPSK

Lowest



Middle



Highest

