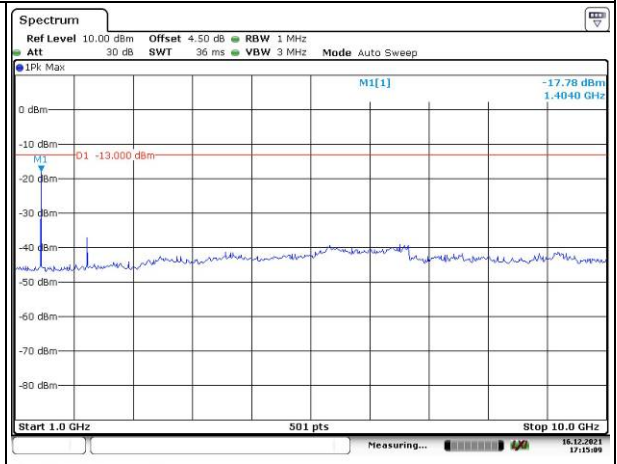
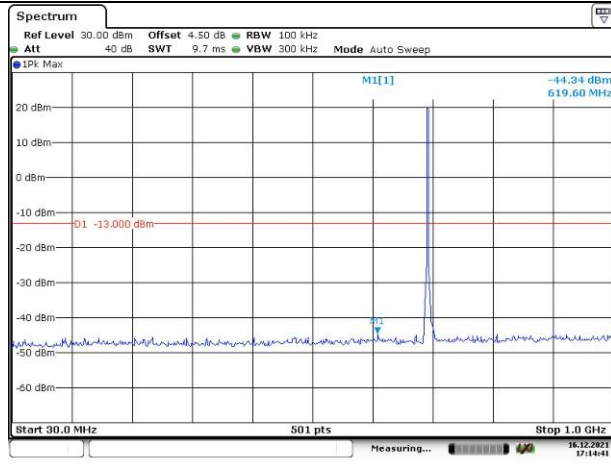


Spurious Emissions at Antenna Terminal

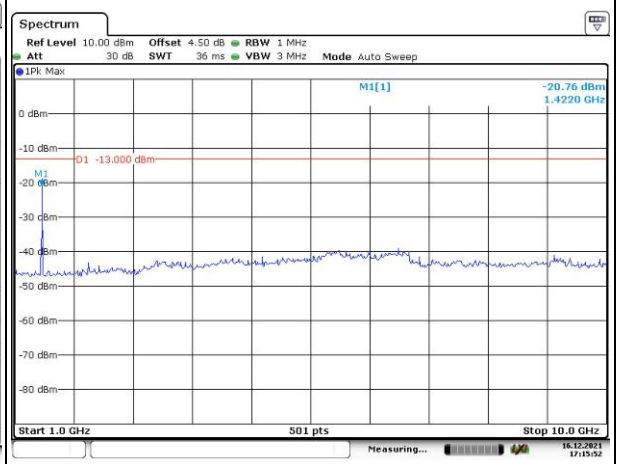
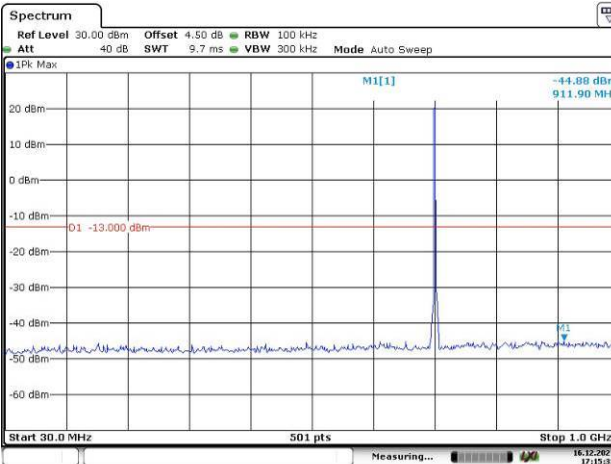
Channel

1.4MHz Bandwidth QPSK

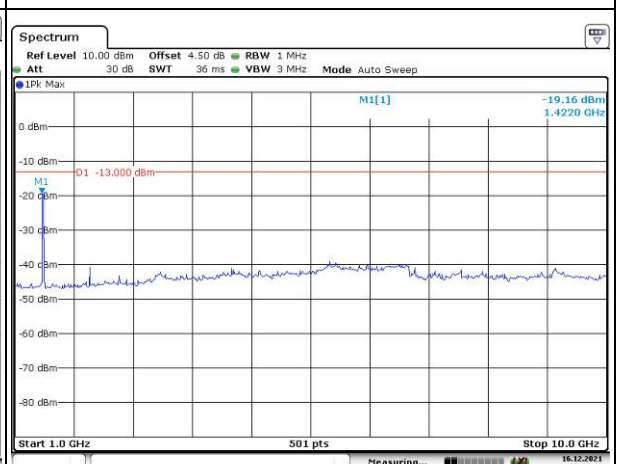
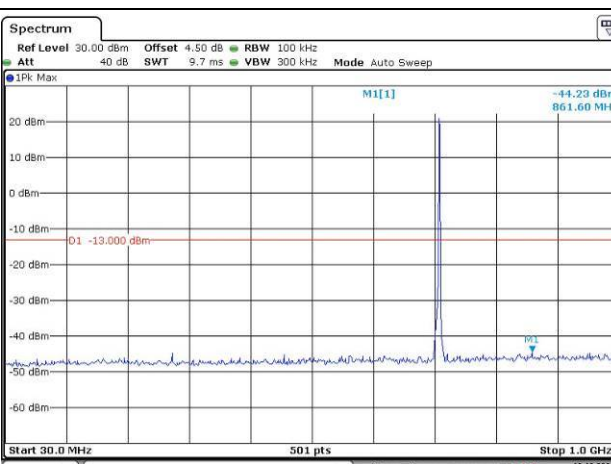
Lowest



Middle



Highest

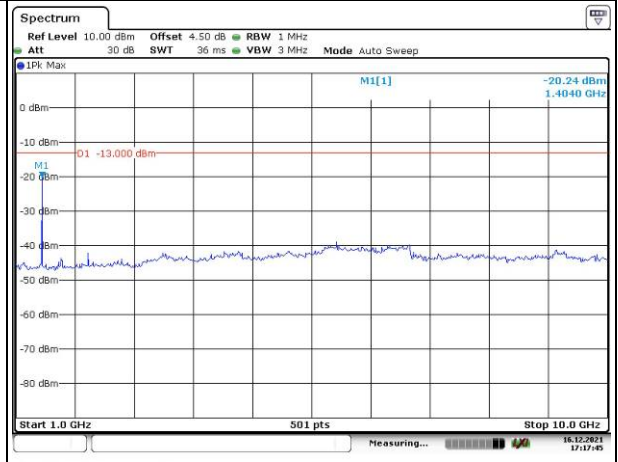
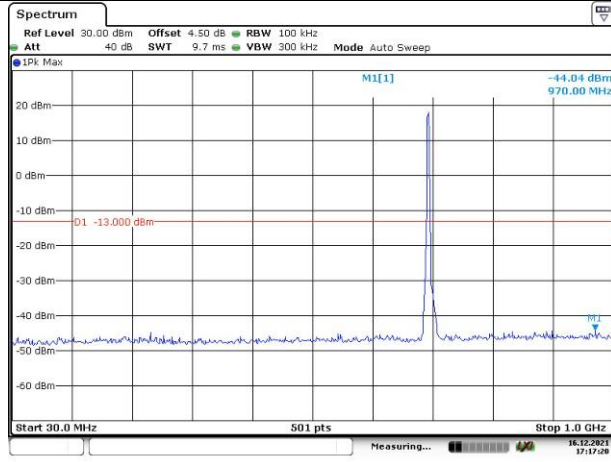


Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

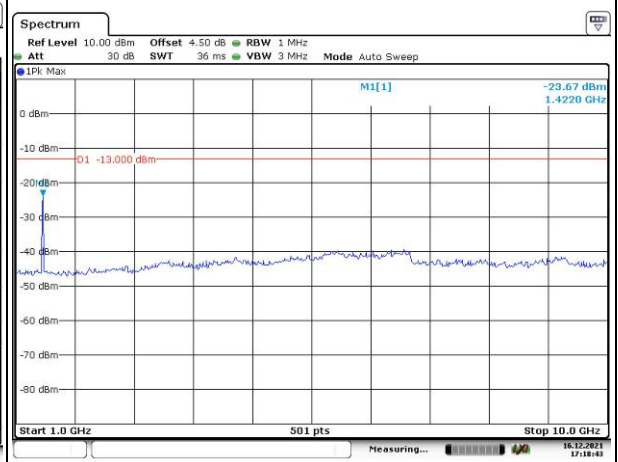
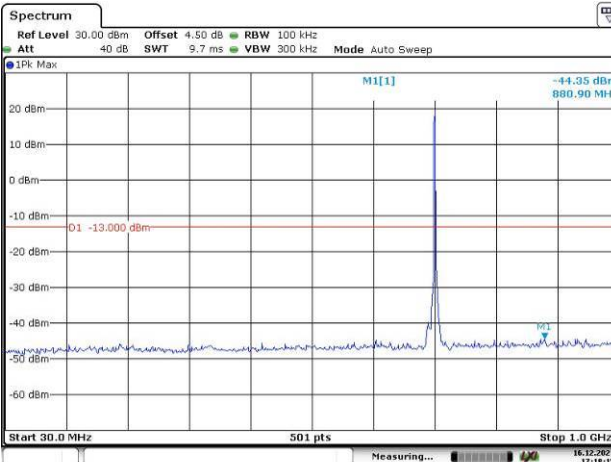
Lowest



Date: 16.DEC.2021 17:17:20

Date: 16.DEC.2021 17:17:45

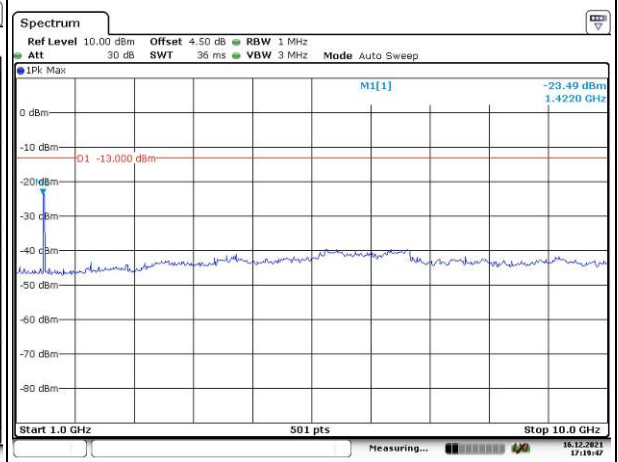
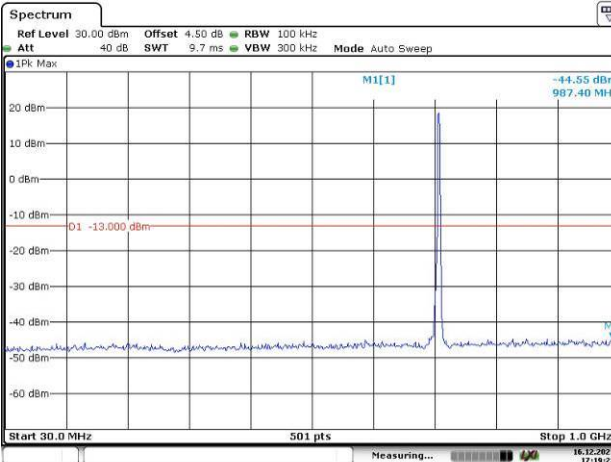
Middle



Date: 16.DEC.2021 17:18:15

Date: 16.DEC.2021 17:18:43

Highest



Date: 16.DEC.2021 17:19:22

Date: 16.DEC.2021 17:19:49

Spurious Emissions at Antenna Terminal

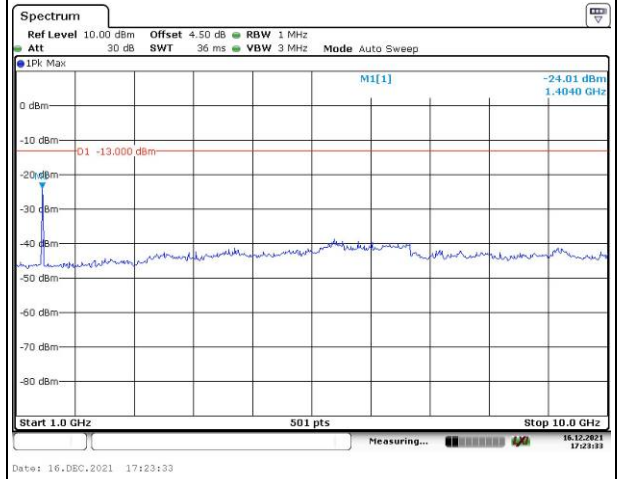
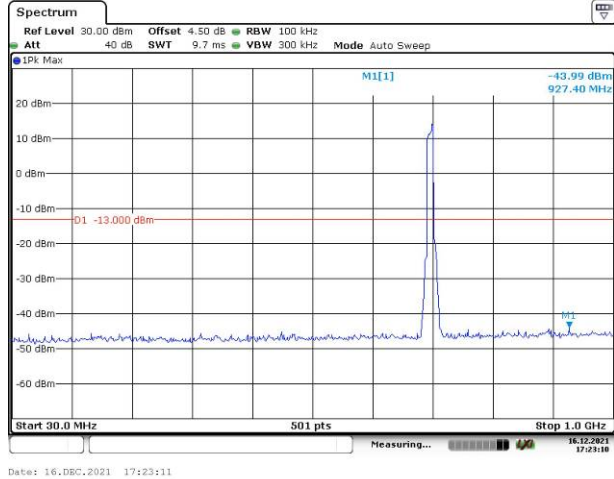
Channel	5MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max MI[1] -44.34 dBm 921.60 MHz D1 -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Measuring... 16.12.2021 17:20:15 Date: 16.DEC.2021 17:20:15</p>	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 1 MHz Att 30 dB SWT 36 ms VBW 3 MHz Mode Auto Sweep IPk Max MI[1] -21.34 dBm 1.4040 GHz D1 -13.000 dBm Start 1.0 GHz 501 pts Stop 10.0 GHz Measuring... 16.12.2021 17:20:40 Date: 16.DEC.2021 17:20:40</p>
	Middle	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max MI[1] -44.79 dBm 919.70 MHz D1 -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Measuring... 16.12.2021 17:21:06 Date: 16.DEC.2021 17:21:06</p>
Highest		<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max MI[1] -42.75 dBm 696.10 MHz D1 -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Measuring... 16.12.2021 17:22:01 Date: 16.DEC.2021 17:22:01</p>

Spurious Emissions at Antenna Terminal

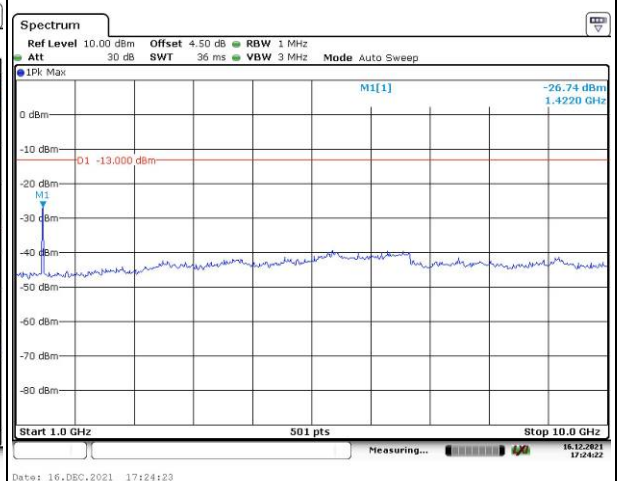
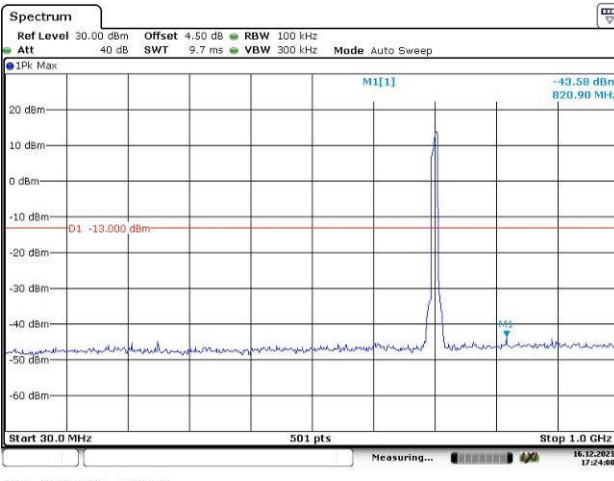
Channel

10MHz Bandwidth QPSK

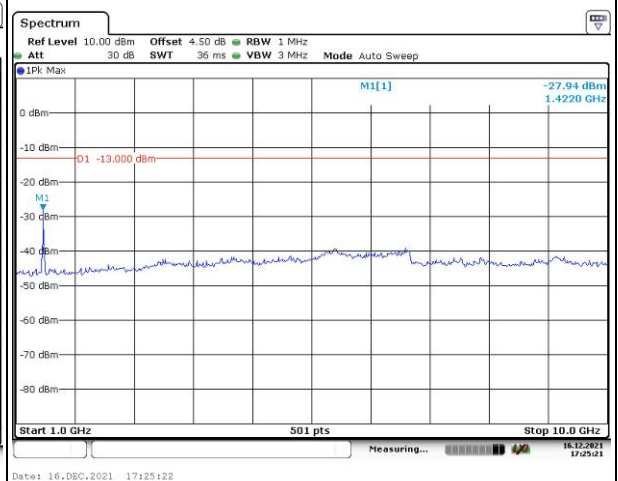
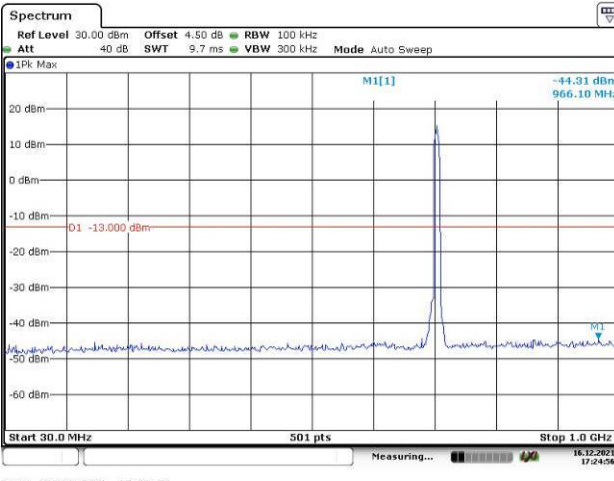
Lowest



Middle



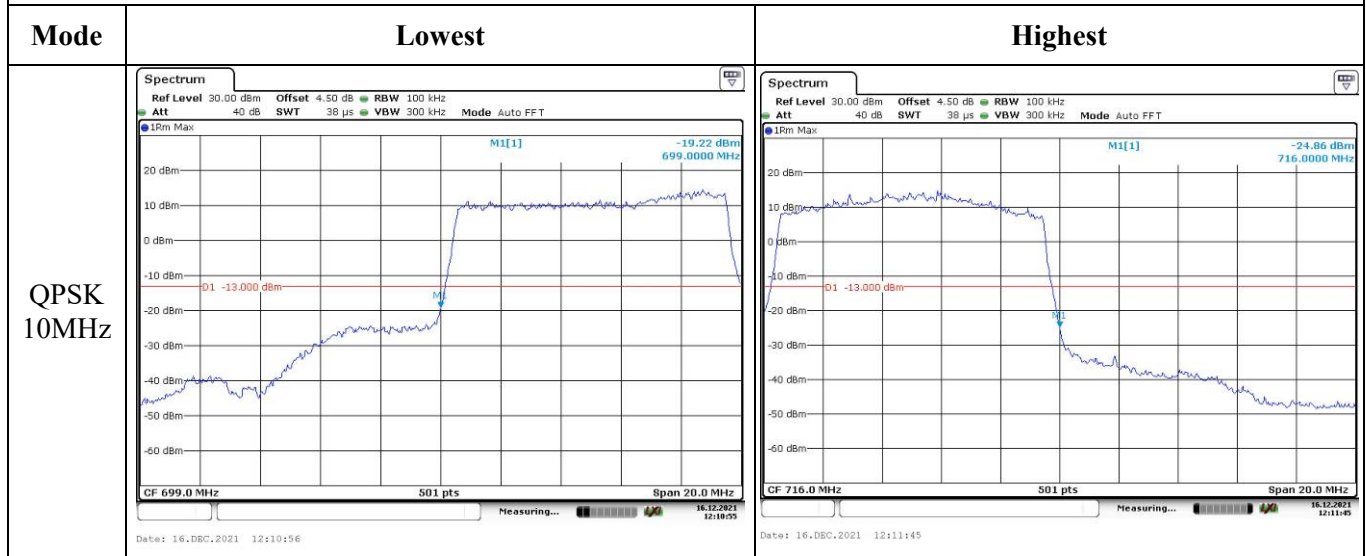
Highest



Out of band emission, Band Edge

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

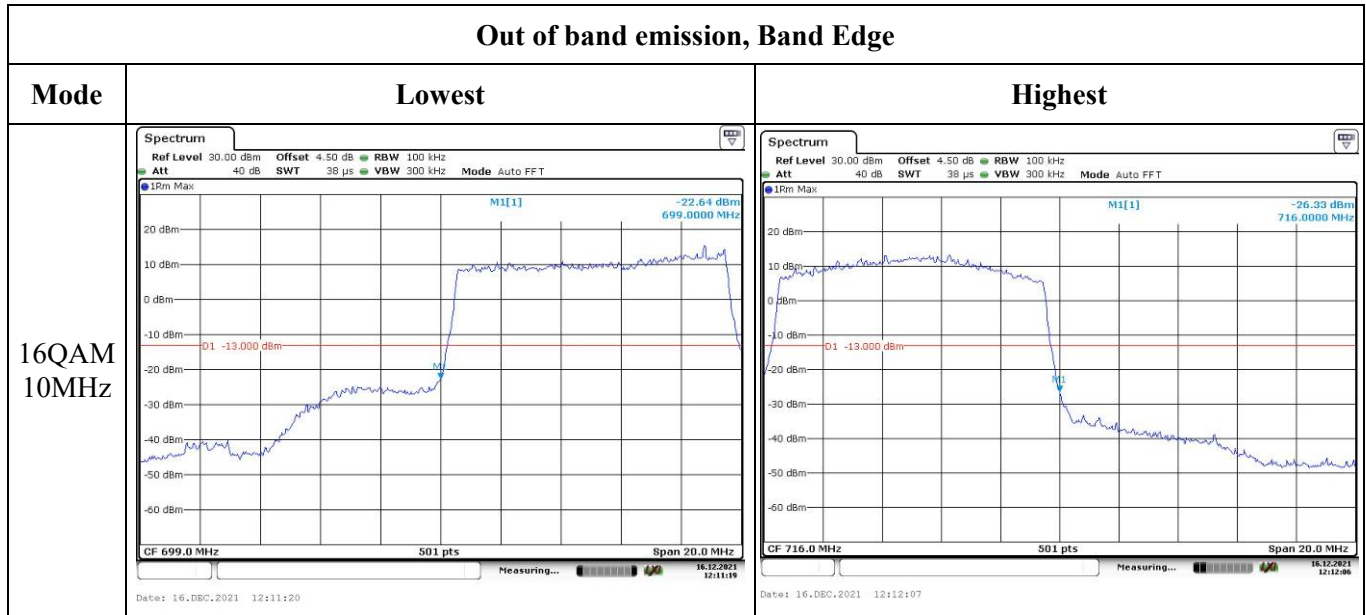
Out of band emission, Band Edge



Out of band emission, Band Edge

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

Out of band emission, Band Edge



4.11 Antenna Port Test Data and Results for LTE Band 13:

Serial Number:	CR21100097-RF-S1	Test Date:	2021/10/26~2021/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	LE Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.7~25.1	Relative Humidity: (%)	37~59	ATM Pressure: (kPa)	101.1~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	Spectrum Analyzer	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	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).

EUT Information@LTE Band 13▲:

Antenna Gain (dBi):	2	Antenna Gain (dBd):	-0.15	Cable Loss (dB):	0
Operation Voltage(V _{DC}):					
Lowest:	3.2	Normal:	3.8	Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	779.5	782	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	23.44	23.49	23.38	23.35	34.77
	RB1#13	23.18	23.50	23.18		
	RB1#24	22.94	23.40	22.97		
	RB15#0	23.26	23.32	23.40		
	RB15#10	22.99	23.32	23.19		
	RB25#0	22.90	23.19	22.82		
5MHz 16QAM	RB1#0	23.39	23.43	23.19	23.32	34.77
	RB1#13	22.98	23.28	23.14		
	RB1#24	22.94	23.16	22.89		
	RB15#0	22.84	23.47	23.16		
	RB15#10	22.82	23.23	23.14		
	RB25#0	22.76	23.05	22.76		
10MHz QPSK	RB1#0	/	23.61	/	23.46	34.77
	RB1#25	/	23.51	/		
	RB1#49	/	23.39	/		
	RB25#0	/	23.55	/		
	RB25#25	/	23.34	/		
	RB50#0	/	23.36	/		
10MHz 16QAM	RB1#0	/	23.56	/	23.41	34.77
	RB1#25	/	23.33	/		
	RB1#49	/	23.22	/		
	RB25#0	/	23.47	/		
	RB25#25	/	23.36	/		
	RB50#0	/	23.20	/		

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

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	/	3.59	/	13
	RB50#0	/	4.81	/	13
10MHz 16QAM	RB1#0	/	4.70	/	13
	RB50#0	/	5.59	/	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	4.451	4.531	4.511	4.940	5.140	5.020
5MHz 16QAM	4.411	4.571	4.551	4.920	5.040	5.060
10MHz QPSK	/	8.942	/	/	9.760	/
10MHz 16QAM	/	8.942	/	/	9.640	/
Note: The test plots please refer to the Plots of Occupied Bandwidth						

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

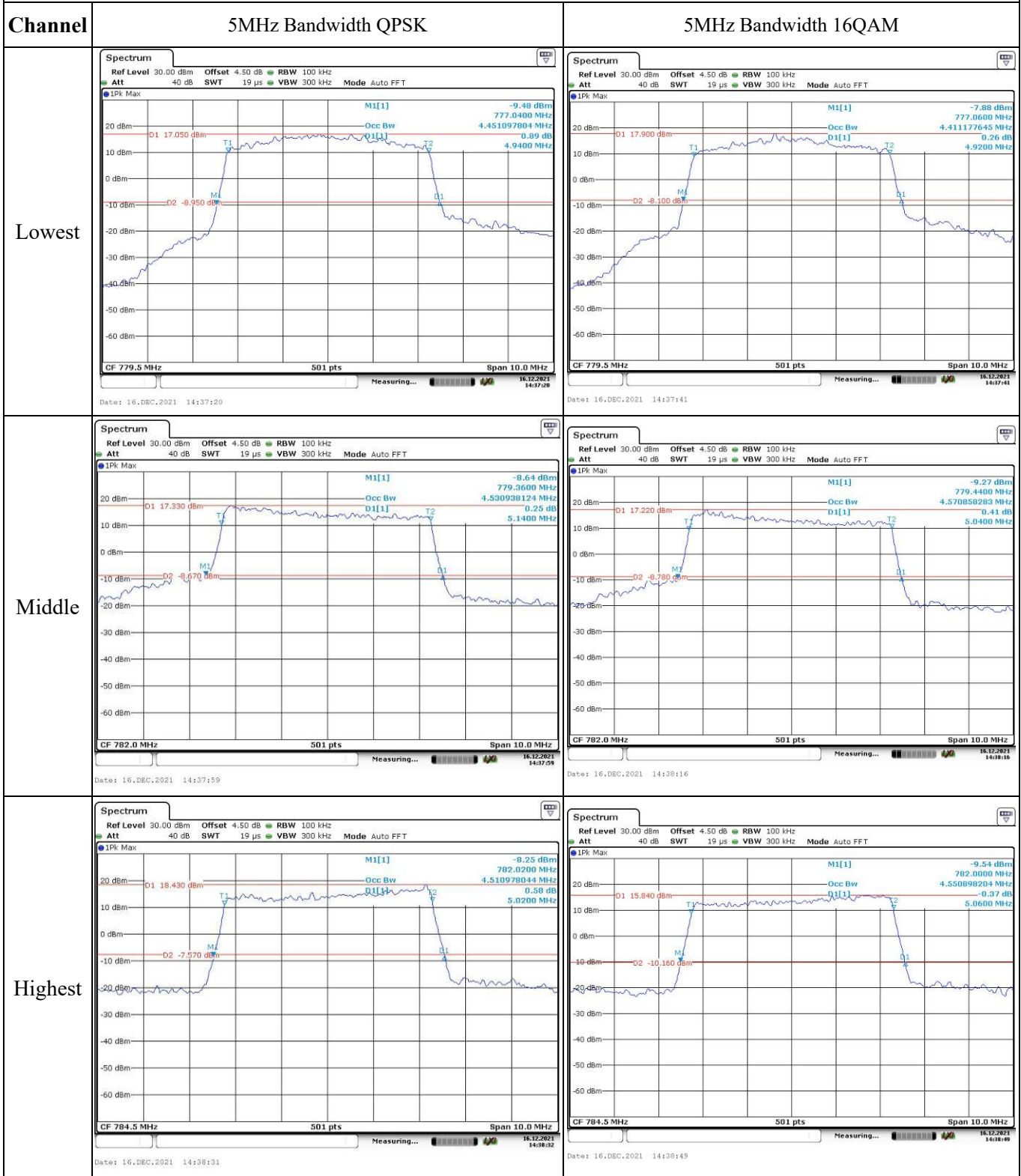
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	10M QPSK	Test Channel: Middle channel				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	777.569	777.00	786.511	787.00
	-20	3.8	777.567	777.00	786.517	787.00
	-10	3.8	777.565	777.00	786.515	787.00
	0	3.8	777.560	777.00	786.515	787.00
	10	3.8	777.568	777.00	786.517	787.00
	20	3.8	777.569	777.00	786.511	787.00
	30	3.8	777.565	777.00	786.512	787.00
	40	3.8	777.569	777.00	786.513	787.00
Frequency Stability vs. Voltage	20	3.2	777.567	777.00	786.517	787.00
	20	4.4	777.569	777.00	786.513	787.00
					Result:	Pass

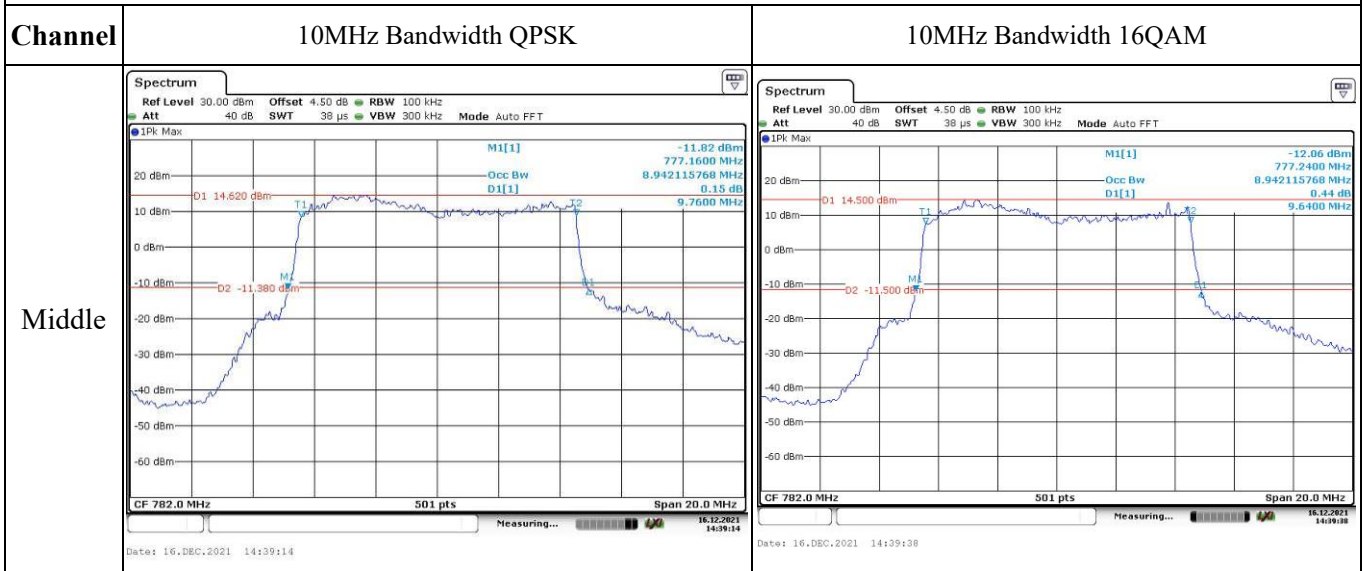
Test Mode:	10M 16QAM	Test Channel: Middle channel				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	777.567	777.00	786.511	787.00
	-20	3.8	777.568	777.00	786.517	787.00
	-10	3.8	777.564	777.00	786.511	787.00
	0	3.8	777.565	777.00	786.515	787.00
	10	3.8	777.563	777.00	786.513	787.00
	20	3.8	777.569	777.00	786.511	787.00
	30	3.8	777.567	777.00	786.517	787.00
	40	3.8	777.565	777.00	786.511	787.00
Frequency Stability vs. Voltage	20	3.2	777.569	777.00	786.511	787.00
	20	4.4	777.568	777.00	786.516	787.00
					Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

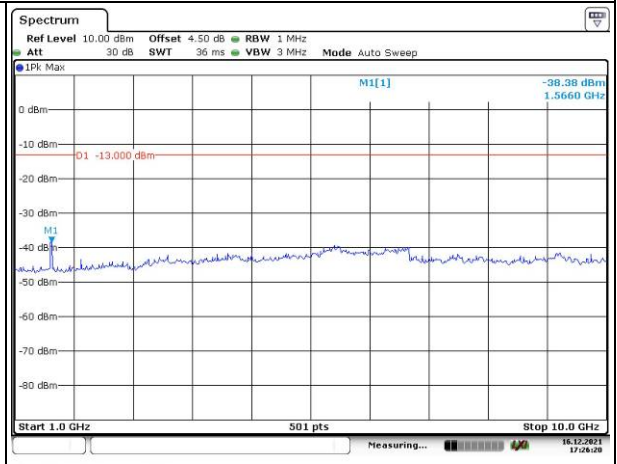
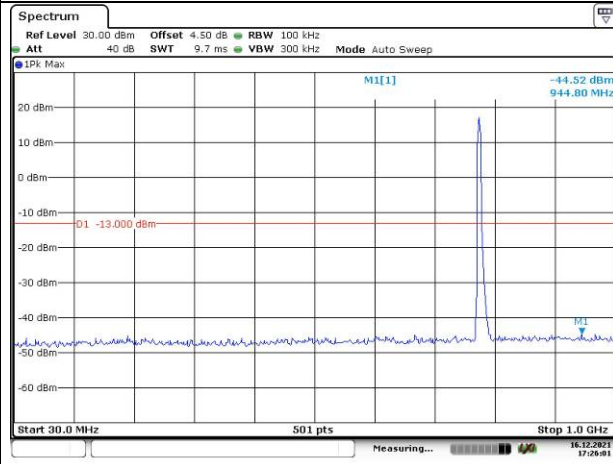


Spurious Emissions at Antenna Terminal

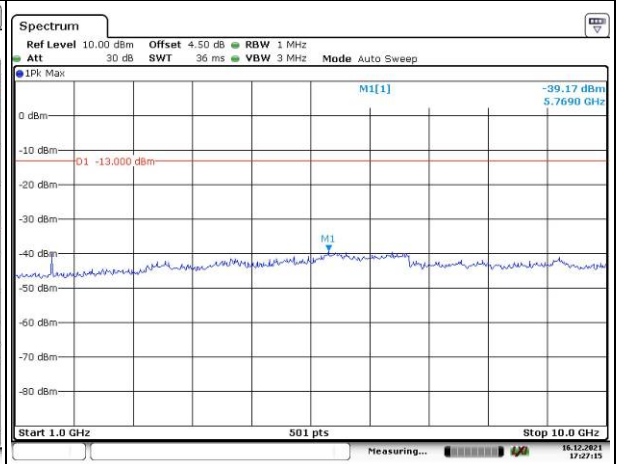
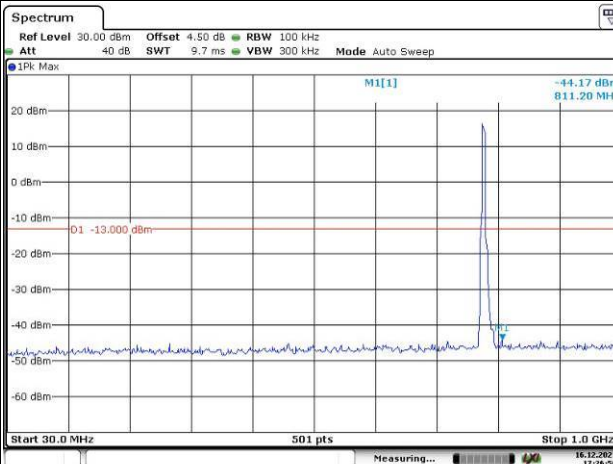
Channel

5MHz Bandwidth QPSK

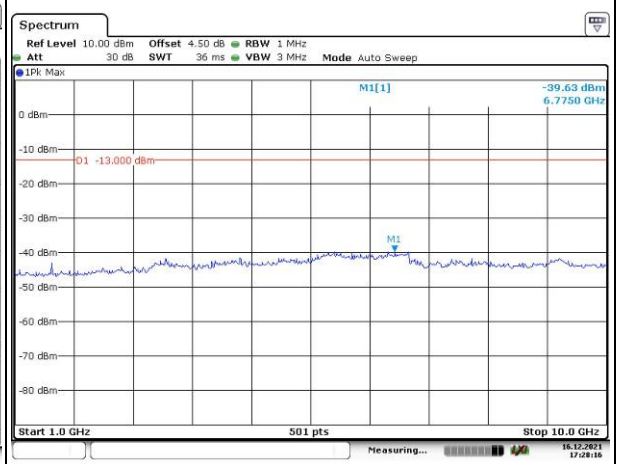
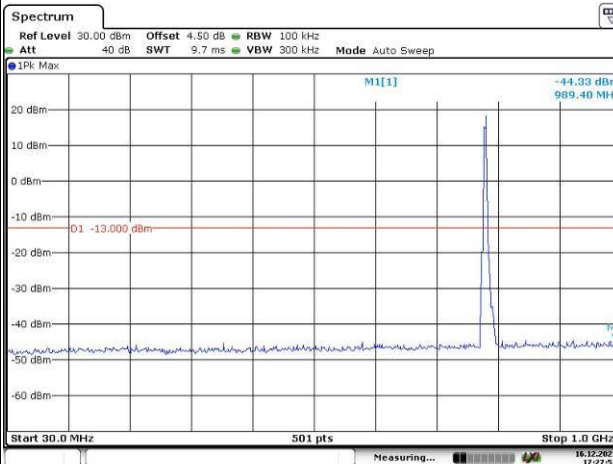
Lowest



Middle



Highest

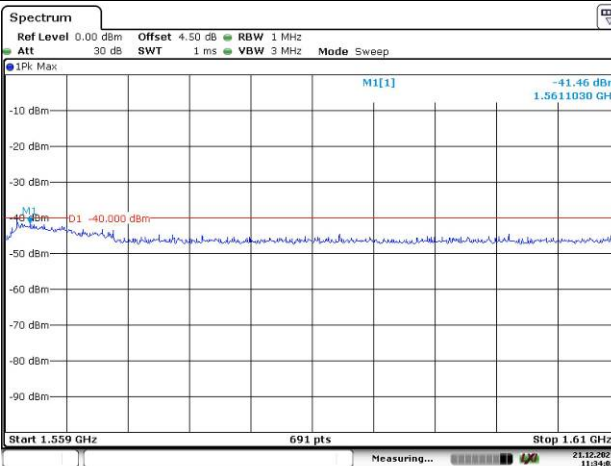
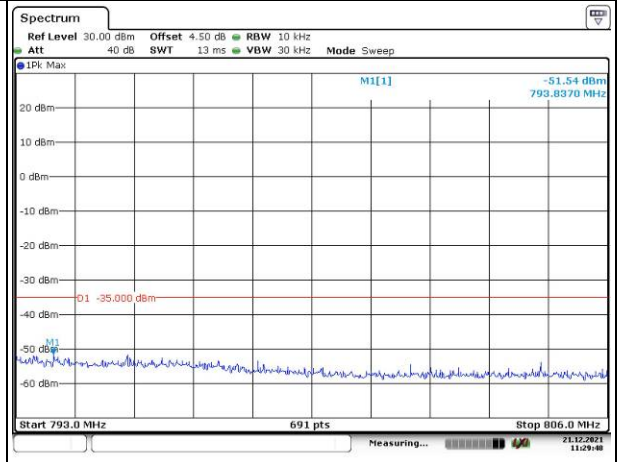
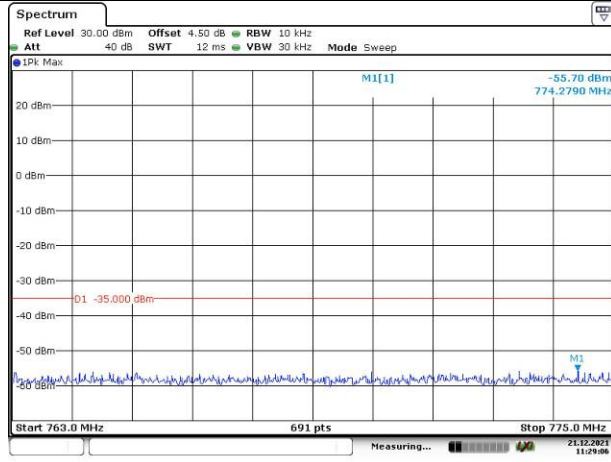


Spurious Emissions at Antenna Terminal

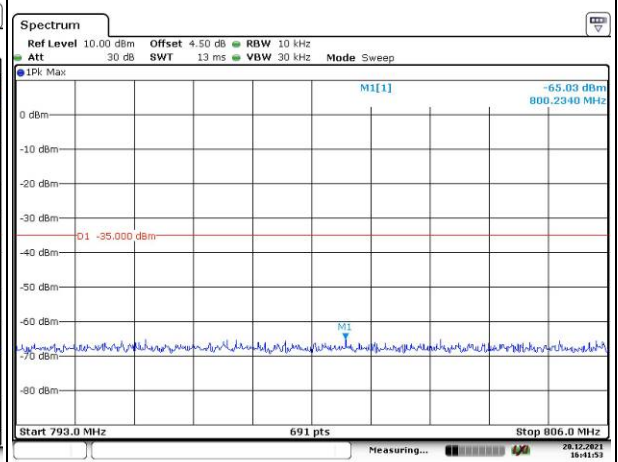
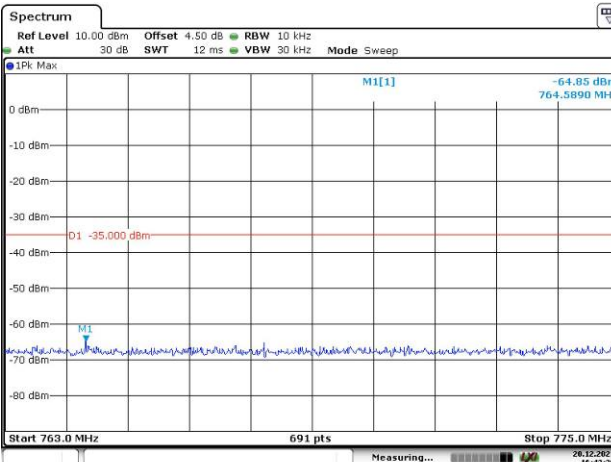
Channel

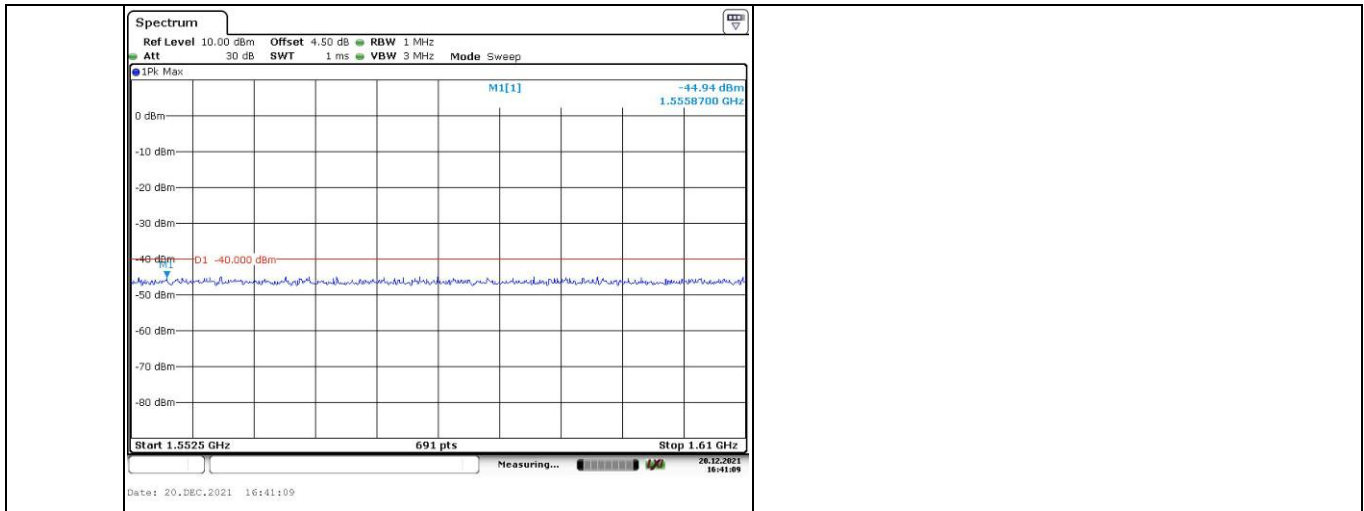
5MHz Bandwidth QPSK

Lowest



Highest

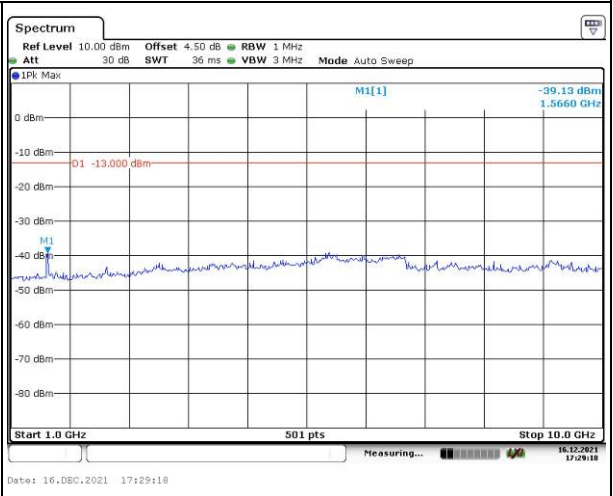
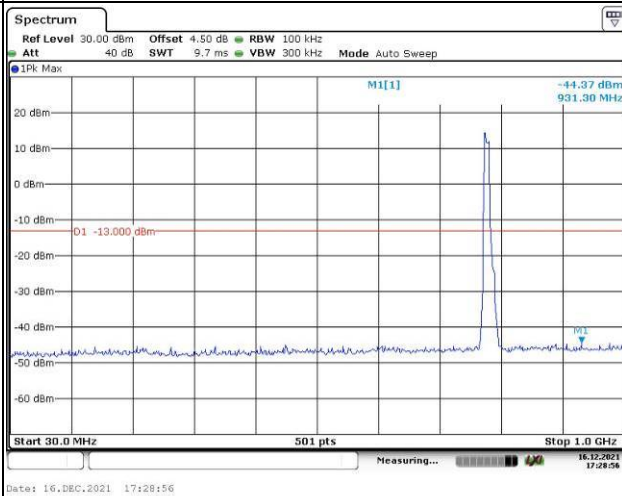




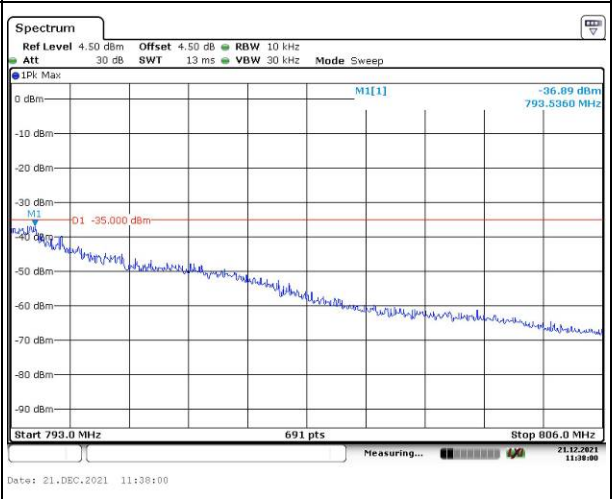
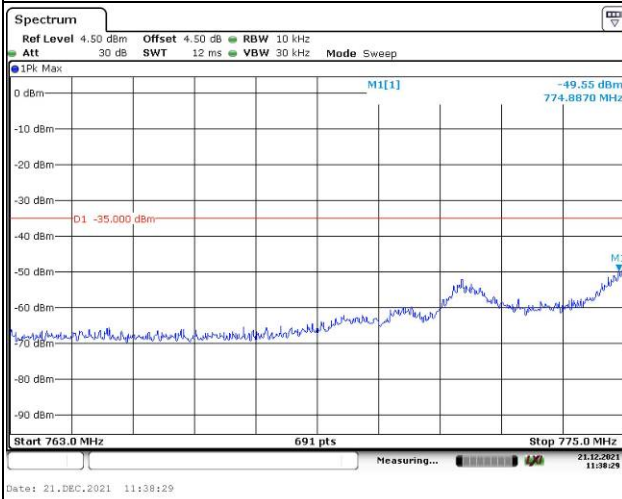
Spurious Emissions at Antenna Terminal

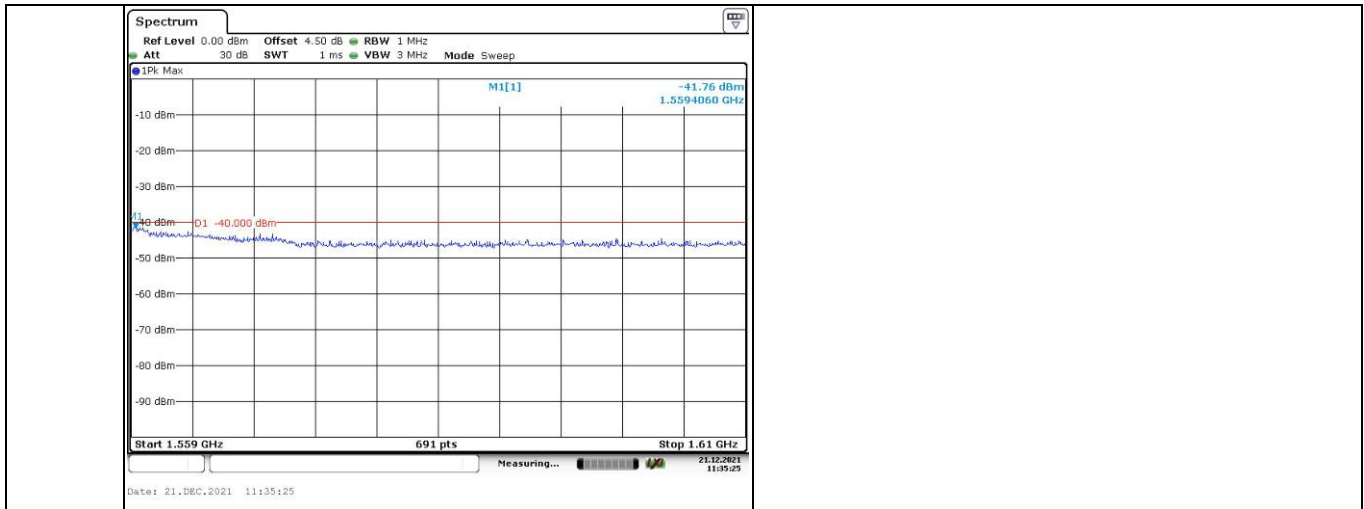
Channel

10MHz Bandwidth QPSK



Middle

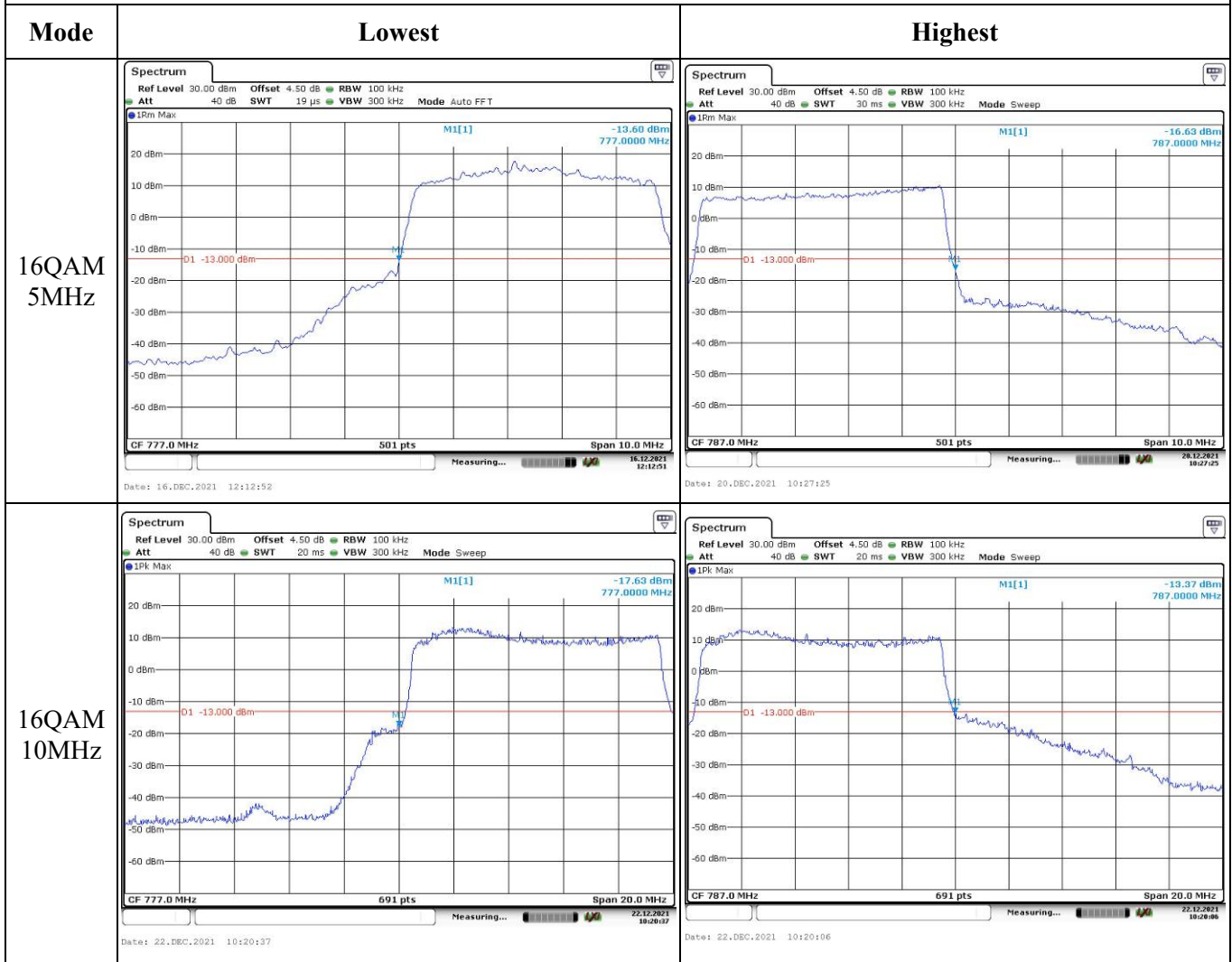




Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		

Out of band emission, Band Edge



4.12 Antenna Port Test Data and Results for LTE Band 17:

Serial Number:	CR21100097-RF-S1	Test Date:	2021/10/26~2021/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	LE Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.7~25.1	Relative Humidity: (%)	37~59	ATM Pressure: (kPa)	101.1~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	Spectrum Analyzer	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	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).

EUT Information@LTE Band 17▲:

Antenna Gain (dBi):	2	Antenna Gain (dBd):	-0.15	Cable Loss (dB):	0
Operation Voltage(V _{DC}):					
Lowest:	3.2	Normal:	3.8	Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	706.5	710	713.5
10MHz	709	710	711

Test Data:

FCC§2.1046;§ 27.50(c) (10)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP(dBm)	ERP Limit(dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.40	23.47	23.39	23.32	34.77
	RB1#13	23.18	23.44	23.18		
	RB1#24	22.96	23.32	22.83		
	RB15#0	23.17	23.30	23.35		
	RB15#10	22.97	23.28	23.15		
	RB25#0	22.89	23.27	22.82		
5MHz 16QAM	RB1#0	23.42	23.36	23.26	23.27	34.77
	RB1#13	22.98	23.26	23.17		
	RB1#24	23.04	23.14	22.84		
	RB15#0	22.75	23.22	23.19		
	RB15#10	22.86	23.21	23.21		
	RB25#0	22.83	23.05	22.78		
10MHz QPSK	RB1#0	23.54	23.59	23.50	23.44	34.77
	RB1#25	23.39	23.58	23.45		
	RB1#49	23.07	23.46	23.00		
	RB25#0	23.40	23.49	23.40		
	RB25#25	23.12	23.48	23.37		
	RB50#0	22.99	23.25	22.89		
10MHz 16QAM	RB1#0	23.52	23.54	23.42	23.42	34.77
	RB1#25	23.37	23.39	23.34		
	RB1#49	23.08	23.19	22.88		
	RB25#0	23.22	23.57	23.35		
	RB25#25	23.02	23.33	23.27		
	RB50#0	22.94	23.22	22.77		
Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)					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	5.80	4.38	4.49	13
	RB50#0	4.58	4.49	4.32	13
10MHz 16QAM	RB1#0	5.80	5.01	5.54	13
	RB50#0	5.86	5.74	5.74	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	4.531	4.491	4.491	5.020	5.000	4.940
5MHz 16QAM	4.491	4.511	4.511	5.020	5.020	5.000
10MHz QPSK	8.862	8.782	8.821	9.600	9.440	9.480
10MHz 16QAM	8.821	8.782	8.821	9.480	9.440	9.480

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

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

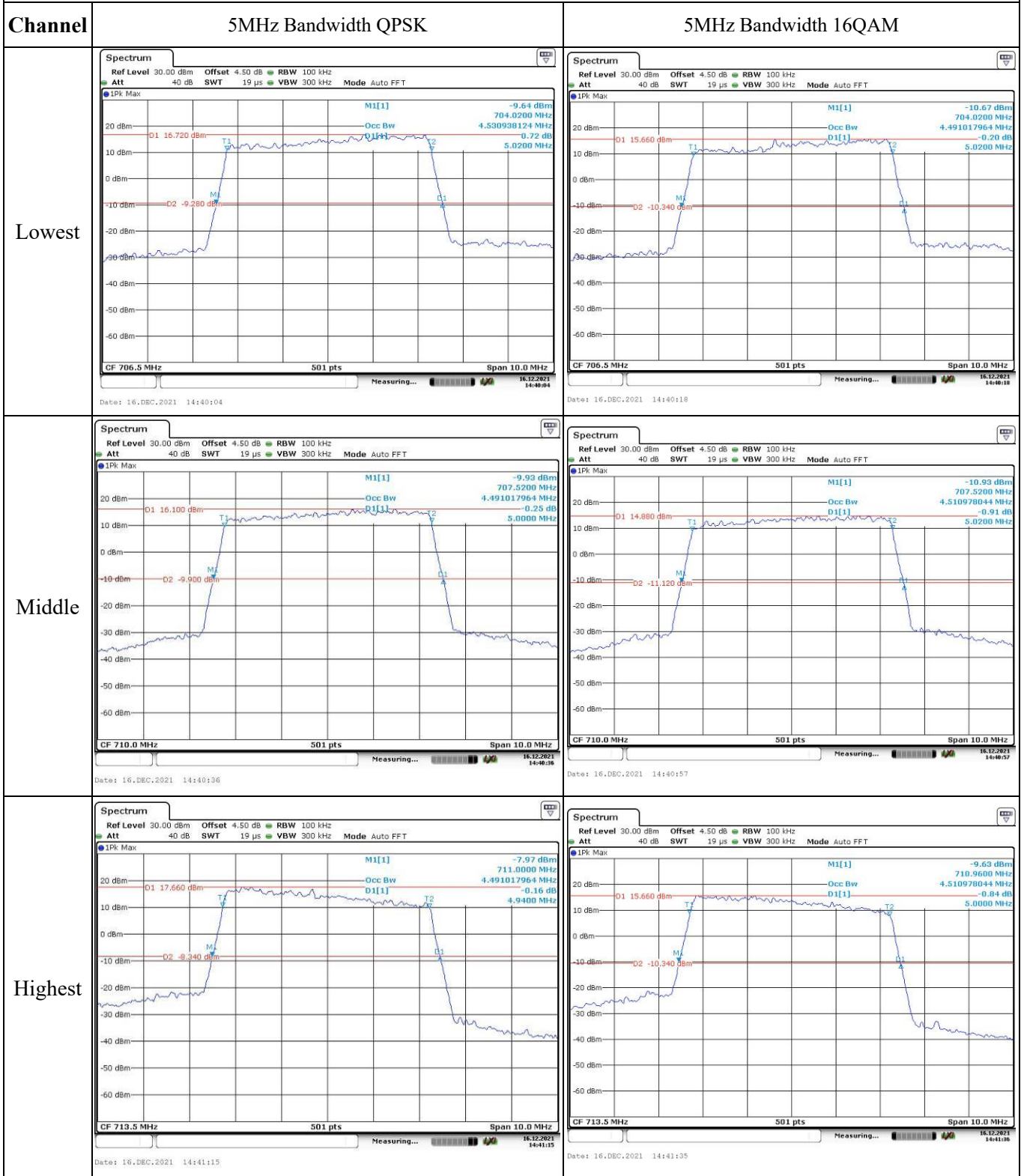
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	704.601	704.00	715.431	716.00
	-20	3.8	704.606	704.00	715.432	716.00
	-10	3.8	704.601	704.00	715.433	716.00
	0	3.8	704.604	704.00	715.434	716.00
	10	3.8	704.605	704.00	715.433	716.00
	20	3.8	704.609	704.00	715.431	716.00
	30	3.8	704.605	704.00	715.437	716.00
	40	3.8	704.604	704.00	715.438	716.00
Frequency Stability vs. Voltage	20	3.2	704.605	704.00	715.434	716.00
	20	4.4	704.609	704.00	715.431	716.00
	Result:					Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	704.604	704.00	715.431	716.00
	-20	3.8	704.605	704.00	715.432	716.00
	-10	3.8	704.606	704.00	715.431	716.00
	0	3.8	704.607	704.00	715.433	716.00
	10	3.8	704.608	704.00	715.435	716.00
	20	3.8	704.609	704.00	715.431	716.00
	30	3.8	704.604	704.00	715.436	716.00
	40	3.8	704.603	704.00	715.431	716.00
	50	3.8	704.603	704.00	715.436	716.00
Frequency Stability vs. Voltage	20	3.2	704.602	704.00	715.431	716.00
	20	4.4	704.609	704.00	715.435	716.00
					Result:	Pass

Test Plots:

Occupied Bandwidth



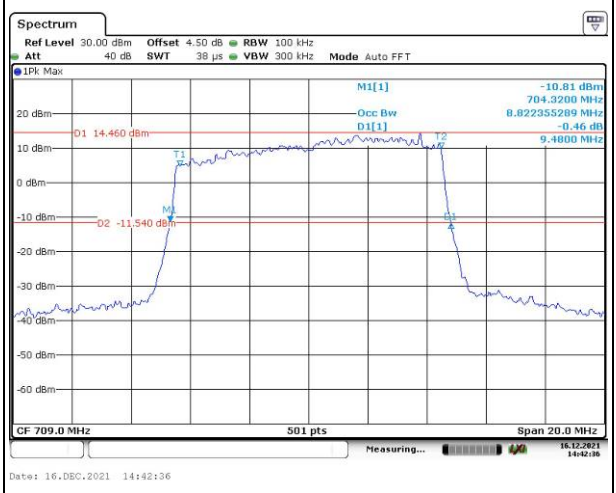
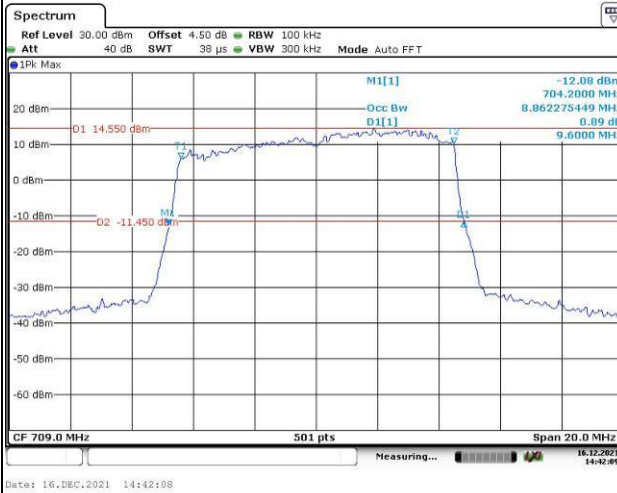
Occupied Bandwidth

Channel

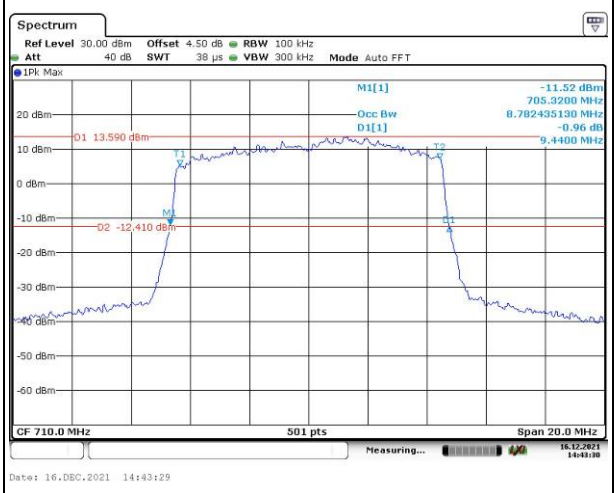
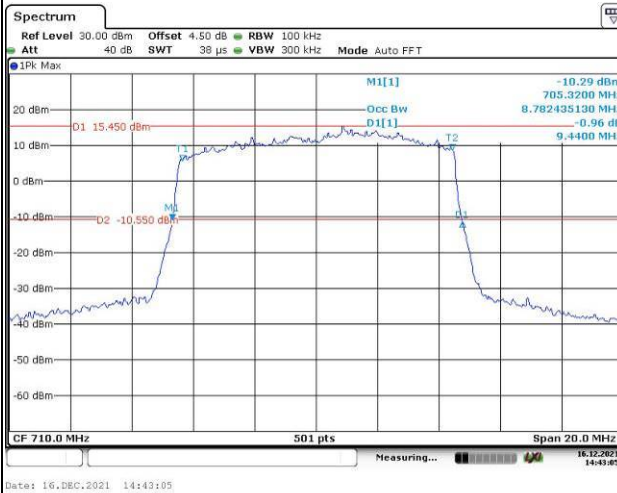
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

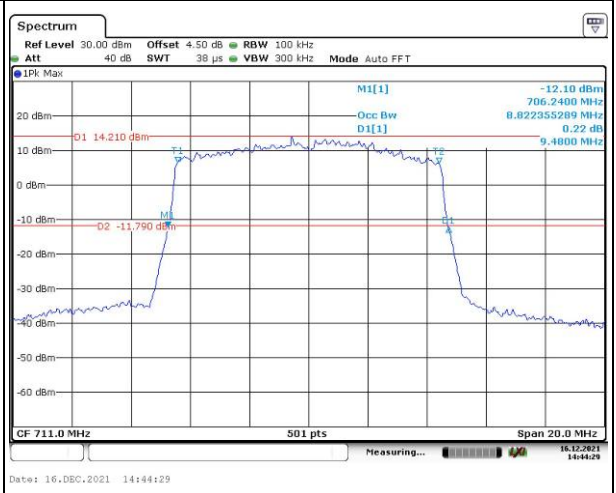
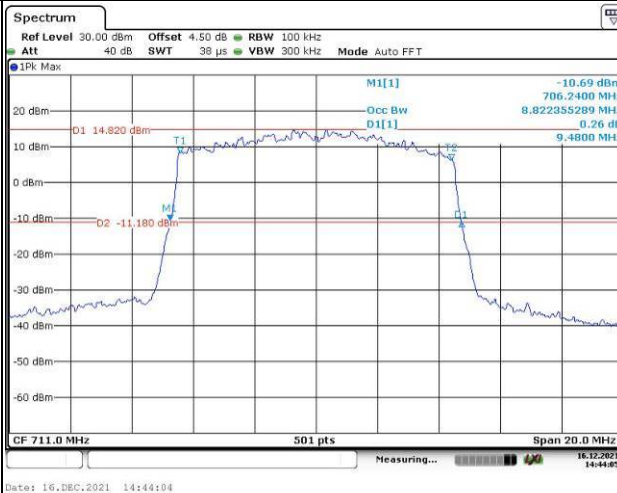
Lowest



Middle



Highest

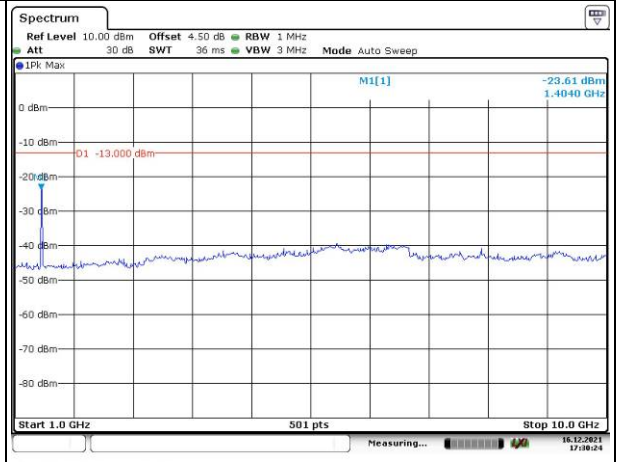
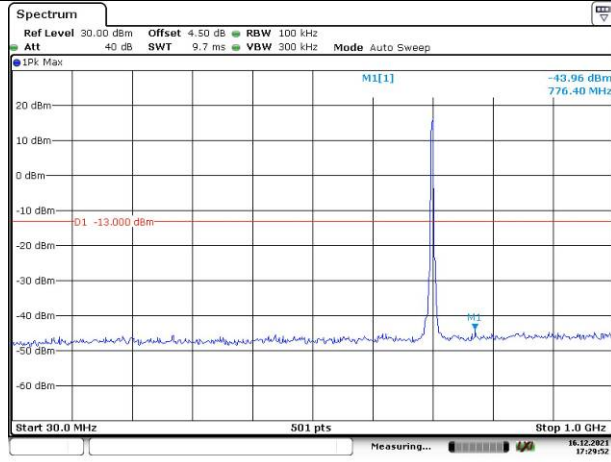


Spurious Emissions at Antenna Terminal

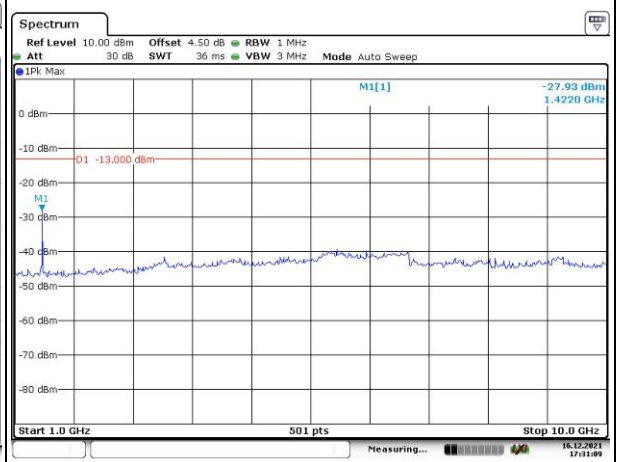
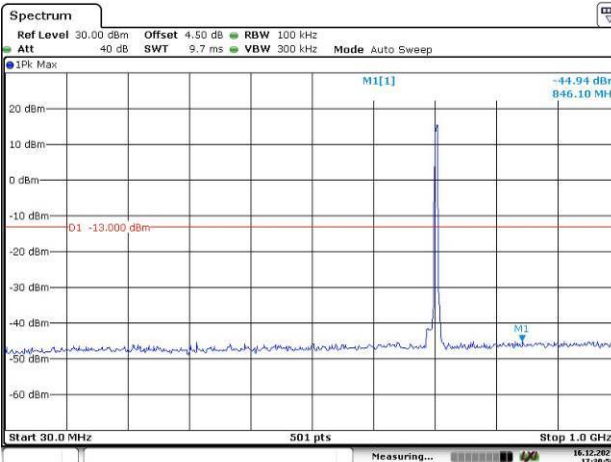
Channel

5MHz Bandwidth QPSK

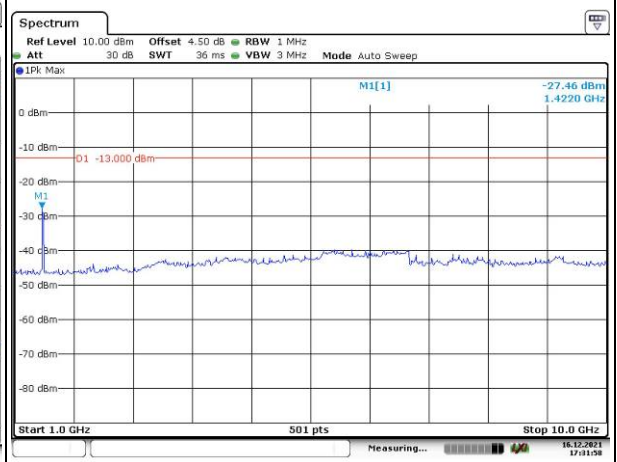
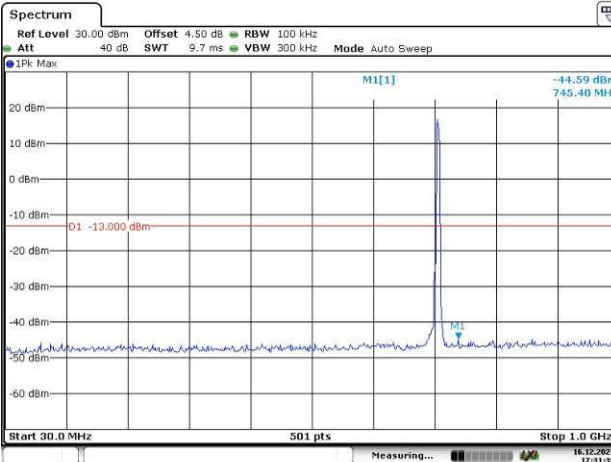
Lowest



Middle



Highest

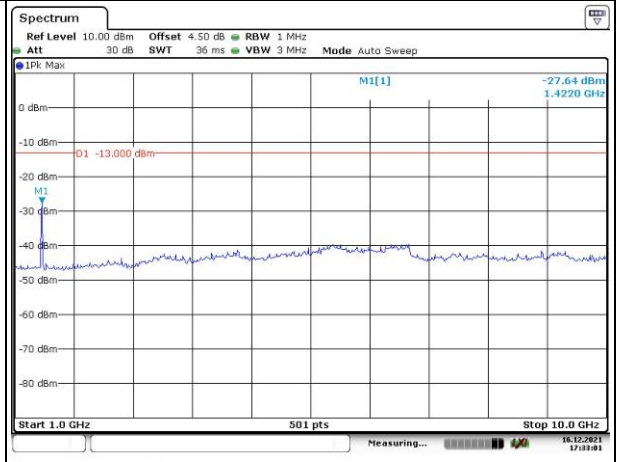
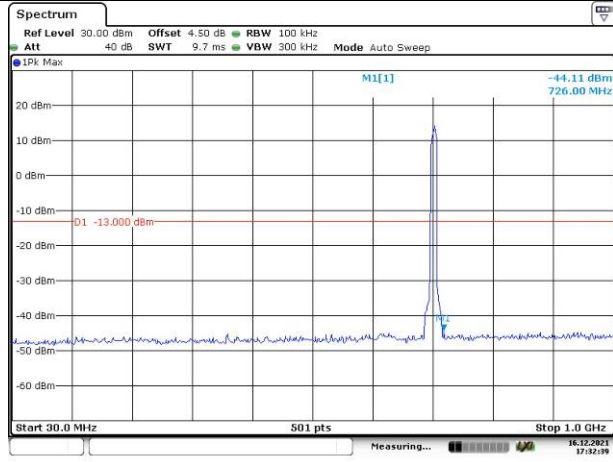


Spurious Emissions at Antenna Terminal

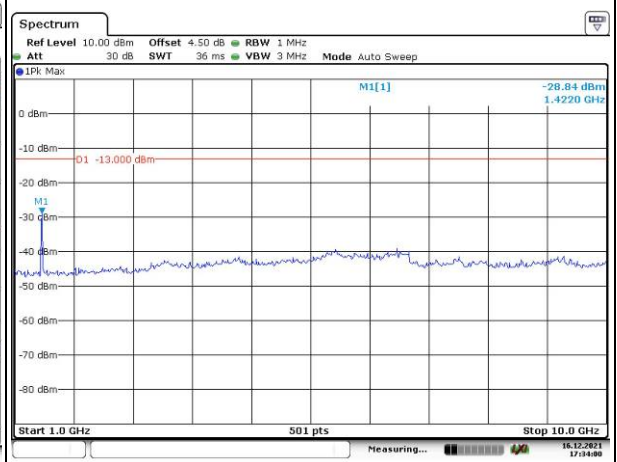
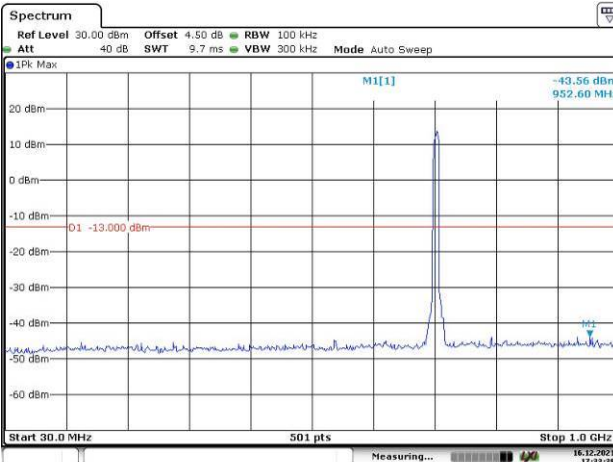
Channel

10MHz Bandwidth QPSK

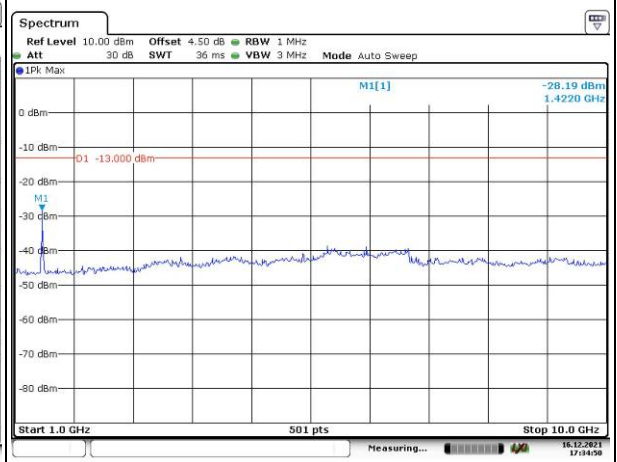
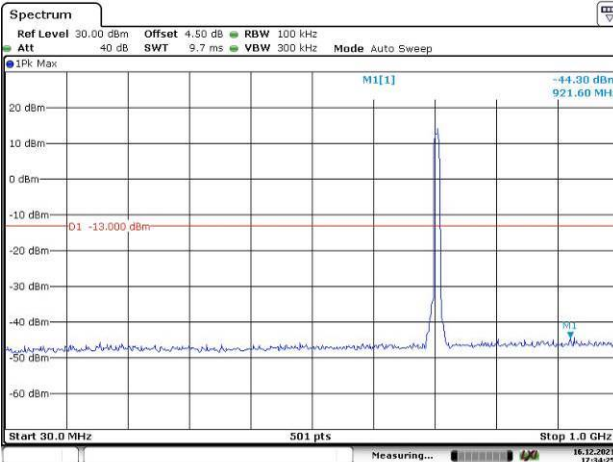
Lowest



Middle



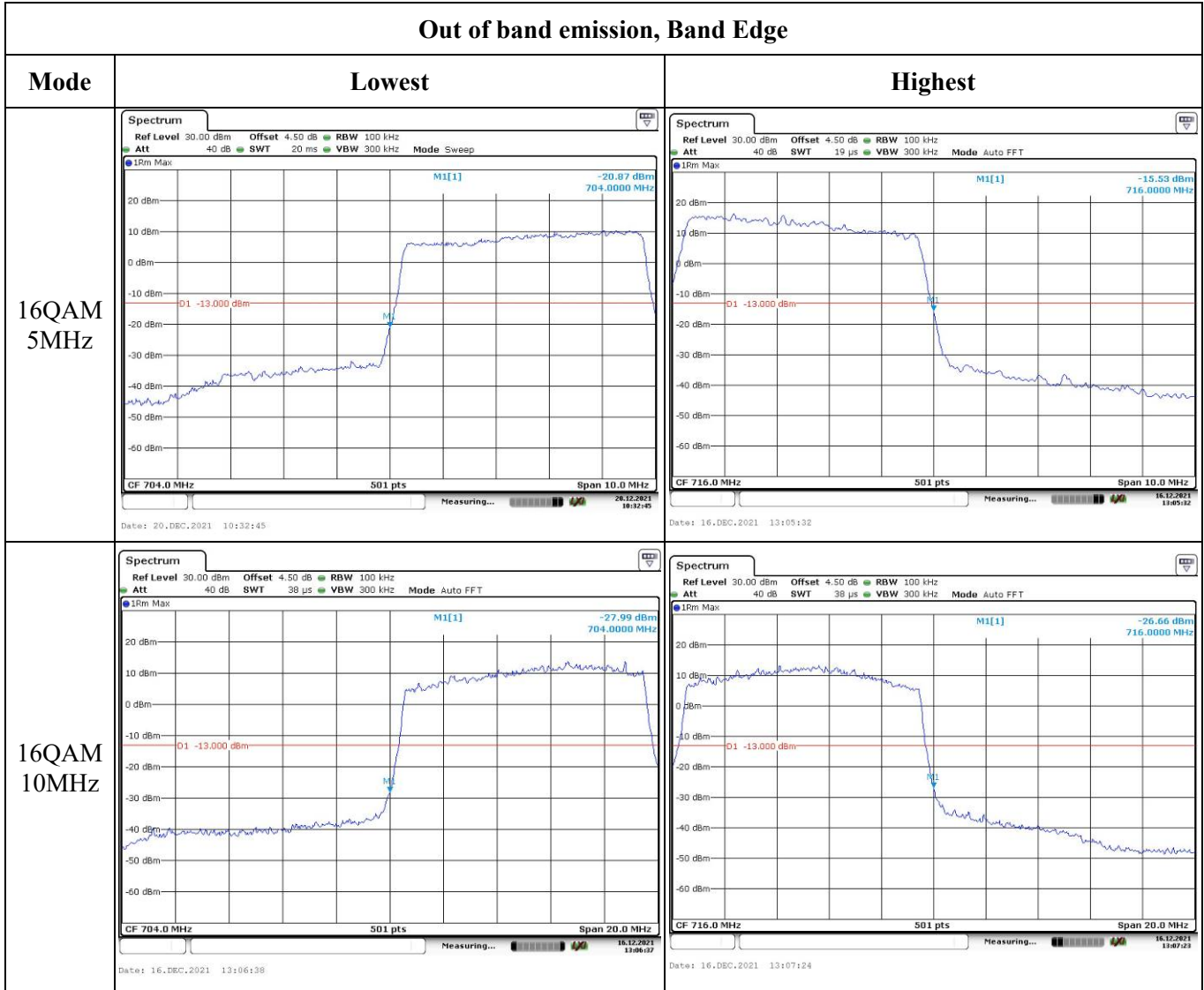
Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		

Out of band emission, Band Edge



4.13 Antenna Port Test Data and Results for LTE Band 25:

Serial Number:	CR21100097-RF-S1	Test Date:	2021/10/26~2021/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	LE Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.7~25.1	Relative Humidity: (%)	37~59	ATM Pressure: (kPa)	101.1~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	Spectrum Analyzer	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	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).

EUT Information@ LTE Band 25▲:

Antenna Gain (dBi):	2	Cable Loss (dB):	0
Operation Voltage(V _{DC}):			
Lowest:	3.2	Normal:	3.8
		Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1850.7	1882.5	1914.3
3MHz	1851.5	1882.5	1913.5
5MHz	1852.5	1882.5	1912.5
10MHz	1855	1882.5	1910
15MHz	1857.5	1882.5	1907.5
20MHz	1860	1882.5	1905

Test Data:

FCC§2.1046;§ 24.232						
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	23.10	23.48	23.50	25.5	33
	RB1#3	23.04	23.33	23.32		
	RB1#5	22.92	23.27	23.12		
	RB3#0	22.98	23.02	23.25		
	RB3#3	22.89	23.10	23.13		
	RB6#0	22.80	23.04	23.05		
1.4MHz 16QAM	RB1#0	22.95	23.15	23.35	25.35	33
	RB1#3	22.96	23.13	23.13		
	RB1#5	22.74	23.11	23.14		
	RB3#0	22.88	23.07	23.18		
	RB3#3	22.83	23.01	23.03		
	RB6#0	22.78	22.92	22.95		
3MHz QPSK	RB1#0	23.05	23.66	23.45	25.66	33
	RB1#8	23.03	23.37	23.32		
	RB1#14	22.86	23.38	23.27		
	RB6#0	23.04	23.15	23.31		
	RB6#9	22.91	23.12	23.24		
	RB15#0	22.89	23.04	23.15		
3MHz 16QAM	RB1#0	22.97	23.36	23.54	25.54	33
	RB1#8	22.89	23.33	23.25		
	RB1#14	22.91	23.28	23.19		
	RB6#0	22.85	23.12	23.19		
	RB6#9	22.85	23.13	23.16		
	RB15#0	22.75	23.02	23.14		
5MHz QPSK	RB1#0	23.21	23.73	23.62	25.73	33
	RB1#13	22.96	23.49	23.41		
	RB1#24	23.03	23.41	23.34		
	RB15#0	23.05	23.26	23.43		
	RB15#10	22.99	23.12	23.23		
	RB25#0	22.88	22.98	23.14		
5MHz 16QAM	RB1#0	23.12	23.45	23.51	25.51	33
	RB1#13	23.02	23.36	23.30		
	RB1#24	22.90	23.38	23.13		
	RB15#0	23.08	23.19	23.29		
	RB15#10	22.89	23.01	23.14		
	RB25#0	22.88	23.02	23.08		
10MHz QPSK	RB1#0	23.18	23.73	23.63	25.73	33

	RB1#25	23.11	23.46	23.36		
	RB1#49	23.06	23.34	23.26		
	RB25#0	23.10	23.22	23.34		
	RB25#25	23.06	23.10	23.35		
	RB50#0	22.92	23.08	23.30		
10MHz 16QAM	RB1#0	23.14	23.64	23.48	25.64	33
	RB1#25	23.02	23.45	23.30		
	RB1#49	22.97	23.35	23.16		
	RB25#0	23.06	23.23	23.31		
	RB25#25	22.96	23.14	23.12		
	RB50#0	22.87	23.05	23.08		
15MHz QPSK	RB1#0	23.27	23.72	23.69	25.72	33
	RB1#38	23.19	23.63	23.48		
	RB1#74	23.07	23.48	23.42		
	RB36#0	23.18	23.19	23.44		
	RB36#39	23.04	23.21	23.40		
	RB75#0	22.96	23.17	23.30		
15MHz 16QAM	RB1#0	23.21	23.59	23.68	25.68	33
	RB1#38	23.24	23.37	23.32		
	RB1#74	23.16	23.42	23.22		
	RB36#0	23.10	23.34	23.50		
	RB36#39	23.07	23.27	23.24		
	RB75#0	22.96	23.14	23.29		
20MHz QPSK	RB1#0	23.42	23.84	23.78	25.84	33
	RB1#50	23.25	23.72	23.57		
	RB1#99	23.16	23.46	23.51		
	RB50#0	23.21	23.51	23.35		
	RB50#50	23.19	23.13	23.44		
	RB100#0	23.06	23.12	23.42		
20MHz 16QAM	RB1#0	23.34	23.58	23.57	25.58	33
	RB1#50	23.12	23.45	23.44		
	RB1#99	23.15	23.38	23.42		
	RB50#0	23.36	23.48	23.53		
	RB50#50	23.09	23.31	23.30		
	RB100#0	23.15	23.28	23.35		

Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(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	4.75	4.72	4.43	13
	RB100#0	4.81	4.67	4.61	13
20MHz 16QAM	RB1#0	5.77	5.54	5.39	13
	RB100#0	5.88	5.80	5.71	13
Result:					Pass

FCC §2.1049, §24.238:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.102	1.102	1.102	1.308	1.326	1.296
1.4MHz 16QAM	1.102	1.096	1.102	1.314	1.302	1.308
3MHz QPSK	2.695	2.695	2.683	2.940	2.940	2.964
3MHz 16QAM	2.695	2.683	2.683	2.952	2.964	2.940
5MHz QPSK	4.531	4.511	4.511	5.040	5.040	5.020
5MHz 16QAM	4.511	4.531	4.531	5.000	5.060	5.080
10MHz QPSK	8.942	8.942	8.902	9.800	9.680	9.680
10MHz 16QAM	8.942	8.942	8.902	9.680	9.680	9.640
15MHz QPSK	13.353	13.413	13.293	14.640	14.700	14.700
15MHz 16QAM	13.413	13.413	13.353	14.700	14.640	14.640
20MHz QPSK	17.804	17.804	17.804	19.360	19.280	19.280
20MHz 16QAM	17.964	17.884	17.725	19.280	19.280	19.200

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

FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

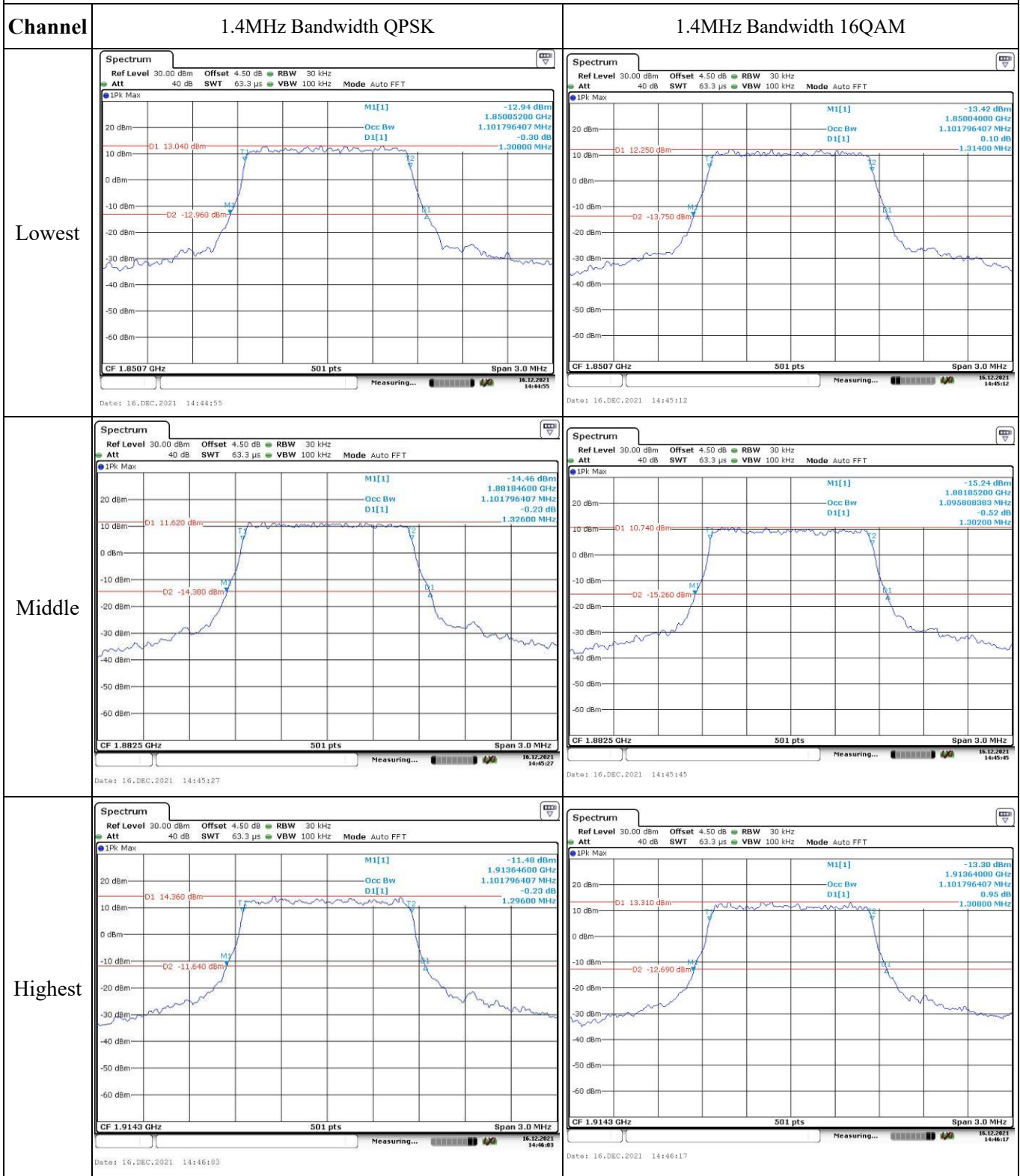
FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §24.235: Frequency Stability					
Test Mode:	20 MHz QPSK		Test Channel:	1882.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Result
			(Hz)	(ppm)	
Frequency Stability vs. Temperature	-30	3.8	0.89	0.000	Pass
	-20	3.8	5.31	0.003	Pass
	-10	3.8	5.01	0.003	Pass
	0	3.8	5.94	0.003	Pass
	10	3.8	-6.38	-0.003	Pass
	20	3.8	5.54	0.003	Pass
	30	3.8	-7.92	-0.004	Pass
	40	3.8	9.49	0.005	Pass
Frequency Stability vs. Voltage	20	3.2	-5.67	-0.003	Pass
	20	4.4	8.71	0.005	Pass
				Result:	Pass

Test Mode:	20 MHz 16QAM		Test Channel:	1882.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Result
			(Hz)	(ppm)	
Frequency Stability vs. Temperature	-30	3.8	2.72	0.001	Pass
	-20	3.8	-9.00	-0.005	Pass
	-10	3.8	9.33	0.005	Pass
	0	3.8	5.57	0.003	Pass
	10	3.8	-7.50	-0.004	Pass
	20	3.8	-5.16	-0.003	Pass
	30	3.8	-5.53	-0.003	Pass
	40	3.8	5.10	0.003	Pass
Frequency Stability vs. Voltage	20	3.2	5.96	0.003	Pass
	20	4.4	8.46	0.004	Pass
				Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>CF 1.8515 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:46:40</p>	<p>CF 1.8515 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:46:57</p>
Middle	<p>CF 1.8825 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:47:15</p>	<p>CF 1.8825 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:47:36</p>
Highest	<p>CF 1.9135 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:47:54</p>	<p>CF 1.9135 GHz 501 pts Span 6.0 MHz</p> <p>Date: 16, DEC, 2021 14:48:08</p>