

Test Plots(Note: The 11.5dB 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	5MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:38:06</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:38:23</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:38:41</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:38:58</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:39:14</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:39:34</p>

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:42:36</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:50:13</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:50:38</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:51:01</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:51:25</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:51:48</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:52:21</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:52:59</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:53:32</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:54:00</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:54:32</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 19:55:01</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:16:47</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:17:19</p>
Middle	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:17:46</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:18:15</p>
Highest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:18:45</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:19:08</p>

Spurious Emissions at Antenna Terminal

Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.17 dBm 698.90 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:19:48</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.07 dBm 16.9060 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:20:11</p>
Middle	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.12 dBm 927.40 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:20:41</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.34 dBm 18.2800 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:21:04</p>
Highest	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -44.33 dBm 958.40 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:21:43</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.82 dBm 11.9180 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 21:22:09</p>

Spurious Emissions at Antenna Terminal

Channel	15MHz Bandwidth QPSK	
Lowest	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -45.37 dBm 971.90 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:22:47</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -31.04 dBm 10.2800 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:23:10</p>
Middle	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -44.33 dBm 762.80 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:23:42</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -30.06 dBm 10.2800 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:24:00</p>
Highest	<p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -45.43 dBm 869.30 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:24:42</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>1Pk Max M1[1] -30.02 dBm 10.3310 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:25:08</p>

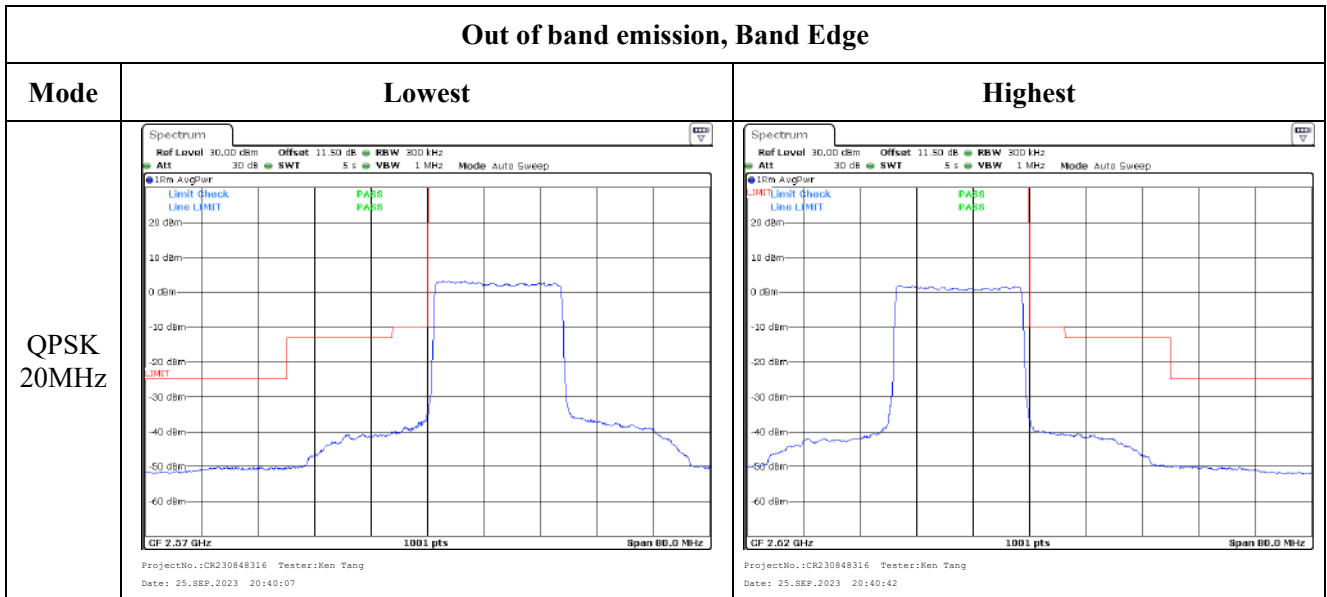
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>1PK Max Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep M1[1] -45.19 dBm 222.60 MHz D1 -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:25:55</p>	<p>1PK Max Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep M1[1] -30.51 dBm 15.9900 GHz D1 -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:26:18</p>
Middle	<p>1PK Max Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep M1[1] -45.77 dBm 979.70 MHz D1 -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:26:47</p>	<p>1PK Max Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep M1[1] -30.06 dBm 6.9300 GHz D1 -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:27:10</p>
Highest	<p>1PK Max Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep M1[1] -45.53 dBm 977.70 MHz D1 -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:27:41</p>	<p>1PK Max Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep M1[1] -30.45 dBm 22.4540 GHz D1 -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 21:28:04</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

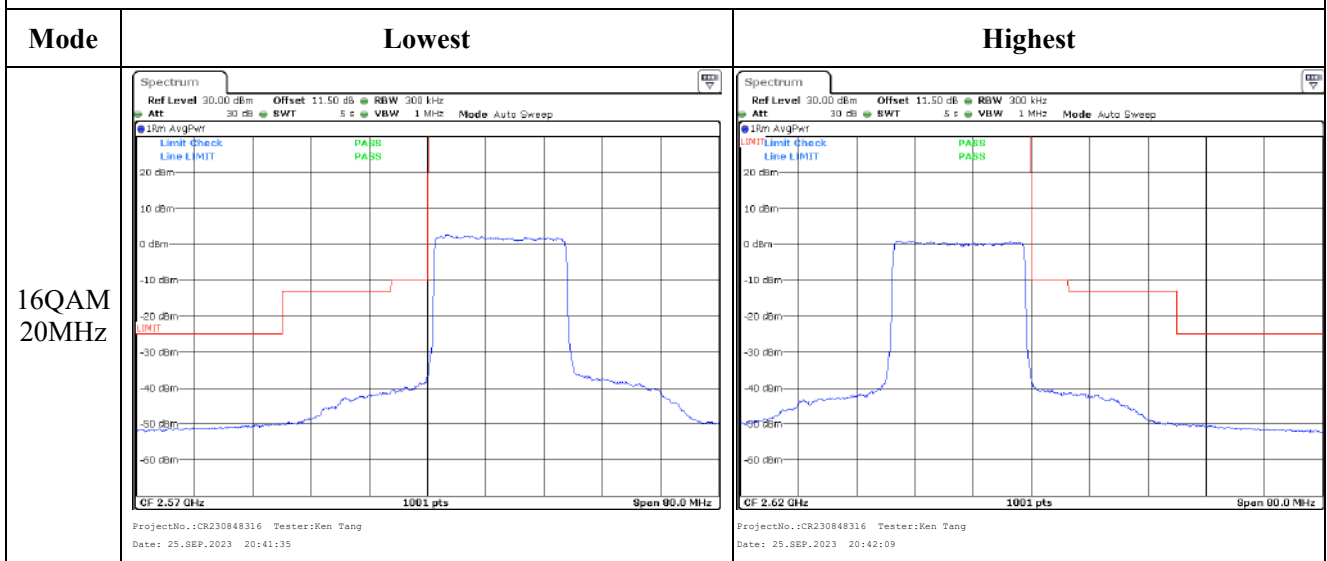
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:31:36</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:32:22</p>
16QAM 10MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:34:46</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:35:20</p>
16QAM 15MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:37:33</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25.SEP.2023 20:38:11</p>

Out of band emission, Band Edge



4.13 Antenna Port Test Data and Results for LTE Band 40

Serial Number:	2A55-4	Test Date:	2023/9/11~2023/9/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	58-62	ATM Pressure: (kPa)	100.5~100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
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

* 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	2307.5	/	2312.5
10MHz	/	2310	/
5MHz	2352.5	/	2357.5
10MHz	/	2355	/

Test Data:

(Note:Uplink Downlink configuration 3 was tested)

FCC§2.1046;§ 27.50(a)(3)						
LTE Band 40 Lower:						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	21.42	/	21.42	20.67	24
	RB1#13	21.43	/	21.41		
	RB1#24	21.40	/	21.47		
	RB15#0	20.30	/	20.28		
	RB15#10	20.44	/	20.31		
	RB25#0	20.33	/	20.35		
5MHz 16QAM	RB1#0	20.67	/	20.50	19.89	24
	RB1#13	20.64	/	20.54		
	RB1#24	20.69	/	20.48		
	RB15#0	19.51	/	19.46		
	RB15#10	19.55	/	19.53		
	RB25#0	19.56	/	19.48		
10MHz QPSK	RB1#0	/	21.33	/	20.55	24
	RB1#25	/	21.31	/		
	RB1#49	/	21.35	/		
	RB25#0	/	20.26	/		
	RB25#25	/	20.45	/		
	RB50#0	/	20.33	/		
10MHz 16QAM	RB1#0	/	20.06	/	19.56	24
	RB1#25	/	20.36	/		
	RB1#49	/	20.33	/		
	RB25#0	/	19.61	/		
	RB25#25	/	19.67	/		
	RB50#0	/	19.31	/		

Note:
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit
EIRP=Conducted Power(dBm) - Lc(dB) + Gt(dBi)
EIRP PSD=Conducted PSD(dBm/5MHz) - Lc(dB) + Gt(dBi)

LTE Band 40 Upper:						
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	21.35	/	21.47	20.70	24
	RB1#13	21.32	/	21.36		
	RB1#24	21.44	/	21.50		
	RB15#0	20.37	/	20.38		
	RB15#10	20.37	/	20.40		
	RB25#0	20.33	/	20.37		
5MHz 16QAM	RB1#0	20.66	/	20.60	19.90	24
	RB1#13	20.66	/	20.21		
	RB1#24	20.70	/	20.28		
	RB15#0	19.53	/	19.48		
	RB15#10	19.50	/	19.51		
	RB25#0	19.52	/	19.55		
10MHz QPSK	RB1#0	/	21.23	/	20.52	24
	RB1#25	/	21.32	/		
	RB1#49	/	21.23	/		
	RB25#0	/	20.36	/		
	RB25#25	/	20.38	/		
	RB50#0	/	20.34	/		
10MHz 16QAM	RB1#0	/	20.06	/	19.61	24
	RB1#25	/	20.29	/		
	RB1#49	/	20.41	/		
	RB25#0	/	19.59	/		
	RB25#25	/	19.57	/		
	RB50#0	/	19.21	/		
Note: For 5MHz mode, the channel power is equal to the test result in dBm/5MHz. For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit $EIRP = \text{Conducted Power(dBm)} - Lc(\text{dB}) + Gt(\text{dBi})$ $EIRP \text{ PSD} = \text{Conducted PSD(dBm/5MHz)} - Lc(\text{dB}) + Gt(\text{dBi})$						
					Result:	Pass

Duty Cycle

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	3	10	30.00	38
		10M	3	10	30.00	38
	16QAM	5M	3	10	30.00	38
		10M	3	10	30.00	38
LTE Band 40 Upper	QPSK	5M	3	10	30.00	38
		10M	3	10	30.00	38
	16QAM	5M	3	10	30.00	38
		10M	3	10	30.00	38
Result:					Pass	

FCC §2.1049, §27.53:Occupied Bandwidth**LTE Band 40 Lower:**

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	/	4.511	5.140	/	5.080
5MHz 16QAM	4.511	/	4.511	5.020	/	5.100
10MHz QPSK	/	8.982	/	/	9.840	/
10MHz 16QAM	/	8.942	/	/	9.760	/

LTE Band 40 Upper:

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	/	4.511	5.120	/	5.060
5MHz 16QAM	4.511	/	4.511	5.120	/	5.160
10MHz QPSK	/	8.942	/	/	9.760	/
10MHz 16QAM	/	8.942	/	/	9.760	/

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**LTE Band 40 Lower:**

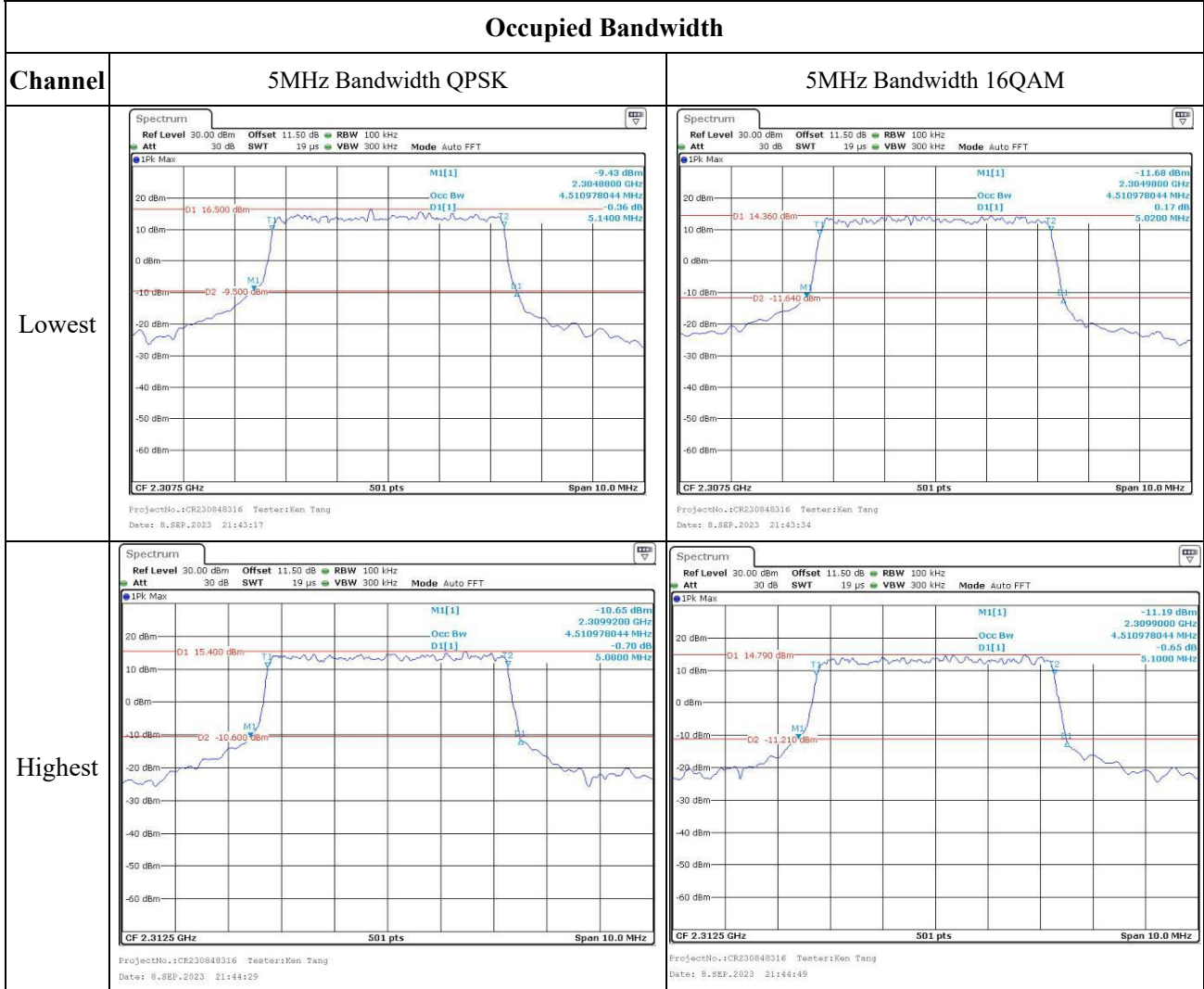
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2305.018	2305.000	2314.987	2315.000
	-20	3.85	2305.014	2305.000	2314.992	2315.000
	-10	3.85	2305.001	2305.000	2314.982	2315.000
	0	3.85	2305.008	2305.000	2314.981	2315.000
	10	3.85	2305.030	2305.000	2314.998	2315.000
	20	3.85	2305.022	2305.000	2314.992	2315.000
	30	3.85	2305.015	2305.000	2314.986	2315.000
	40	3.85	2305.006	2305.000	2314.991	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.028	2305.000	2314.983	2315.000
	20	4.4	2305.017	2305.000	2314.983	2315.000
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	3.85	2305.001	2305.000	2314.997	2315.000
	-20	3.85	2305.026	2305.000	2314.999	2315.000
	-10	3.85	2305.029	2305.000	2314.997	2315.000
	0	3.85	2305.004	2305.000	2314.983	2315.000
	10	3.85	2305.002	2305.000	2314.984	2315.000
	20	3.85	2305.028	2305.000	2314.987	2315.000
	30	3.85	2305.004	2305.000	2314.989	2315.000
	40	3.85	2305.005	2305.000	2314.999	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.006	2305.000	2314.999	2315.000
	20	4.4	2305.007	2305.000	2314.999	2315.000
Result:					Pass	

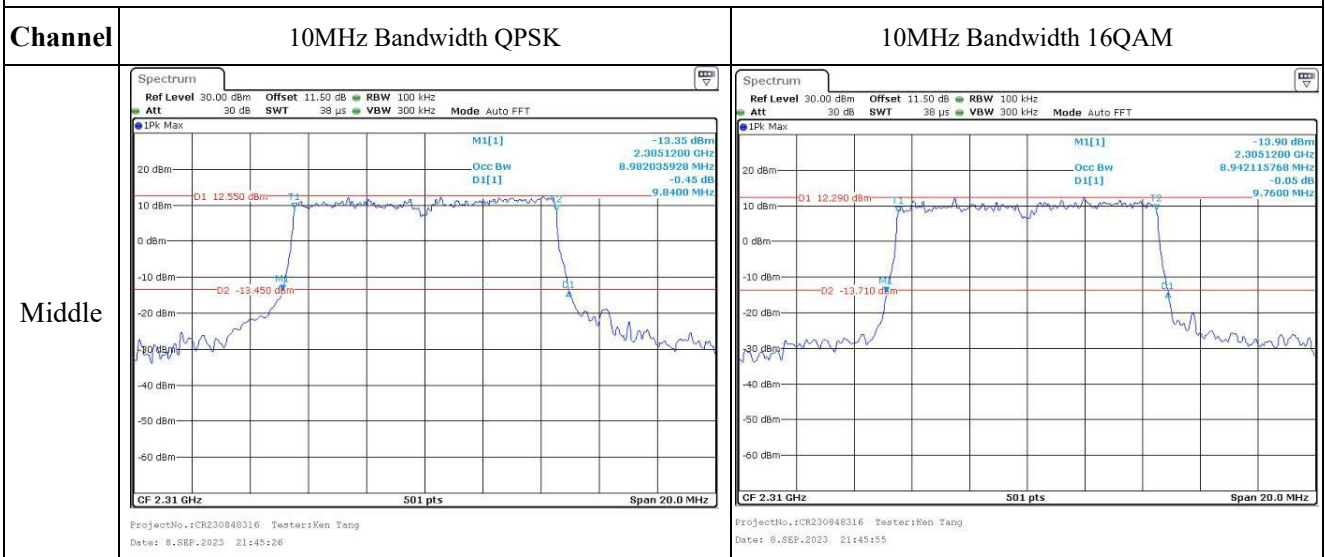
LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2350.005	2350.000	2359.981	2360.000
	-20	3.85	2350.030	2350.000	2359.980	2360.000
	-10	3.85	2350.022	2350.000	2359.980	2360.000
	0	3.85	2350.018	2350.000	2359.993	2360.000
	10	3.85	2350.024	2350.000	2359.974	2360.000
	20	3.85	2350.030	2350.000	2359.986	2360.000
	30	3.85	2350.030	2350.000	2359.977	2360.000
	40	3.85	2350.025	2350.000	2359.988	2360.000
Frequency Stability vs. Voltage	50	3.85	2350.024	2350.000	2359.986	2360.000
	20	3.45	2350.026	2350.000	2359.978	2360.000
	20	4.4	2350.002	2350.000	2359.999	2360.000
					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	3.85	2350.012	2350.000	2359.979	2360.000
	-20	3.85	2350.017	2350.000	2359.988	2360.000
	-10	3.85	2350.007	2350.000	2359.972	2360.000
	0	3.85	2350.008	2350.000	2359.973	2360.000
	10	3.85	2350.028	2350.000	2359.972	2360.000
	20	3.85	2350.025	2350.000	2359.985	2360.000
	30	3.85	2350.014	2350.000	2359.981	2360.000
	40	3.85	2350.029	2350.000	2359.996	2360.000
Frequency Stability vs. Voltage	50	3.85	2350.019	2350.000	2359.990	2360.000
	20	3.45	2350.016	2350.000	2359.982	2360.000
	20	4.4	2350.026	2350.000	2359.973	2360.000
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):
2305-2315 MHz:



Occupied Bandwidth

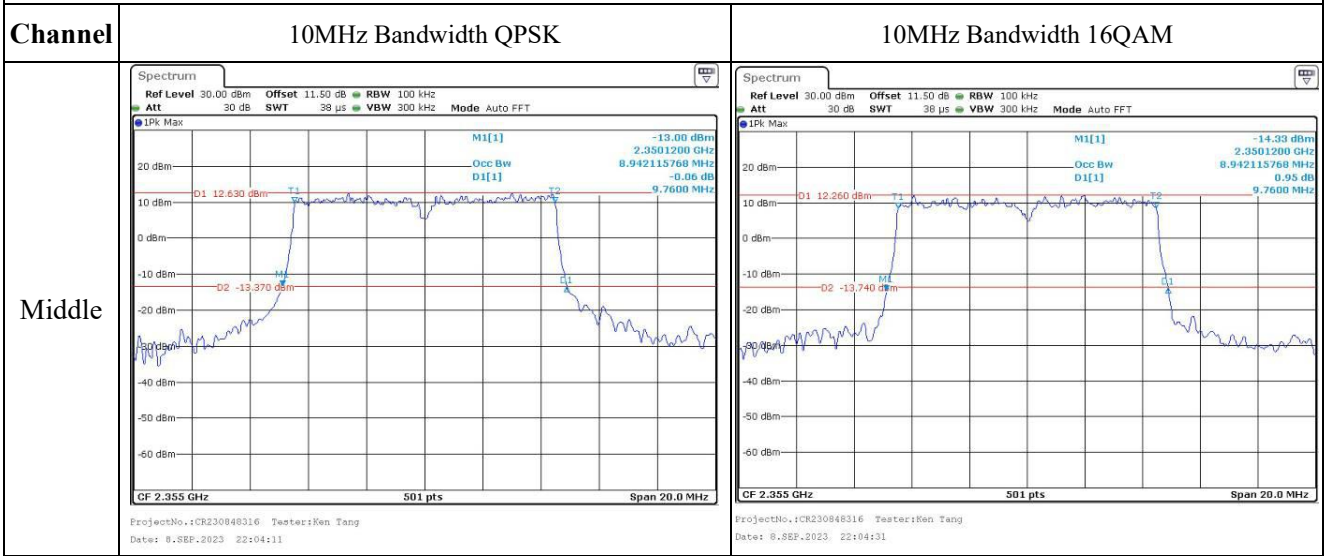


2350-2360 MHz:

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:02:14</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:02:34</p>
Highest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:03:26</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:03:47</p>

Occupied Bandwidth



2305-2315 MHz:

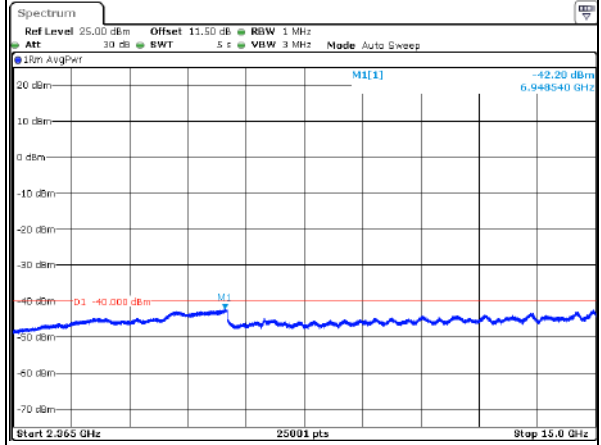
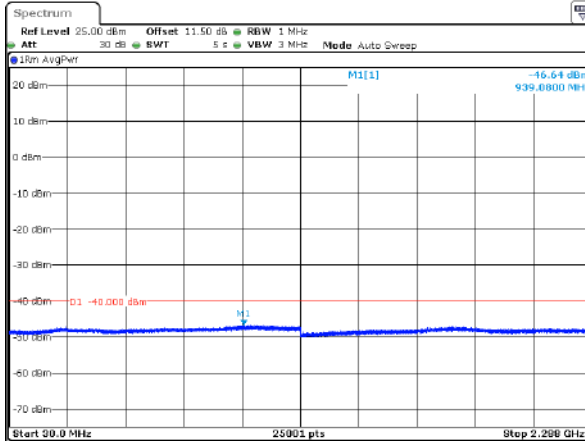
Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP.2023 22:28:49</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP.2023 22:29:10</p>
	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP.2023 22:29:32</p>	

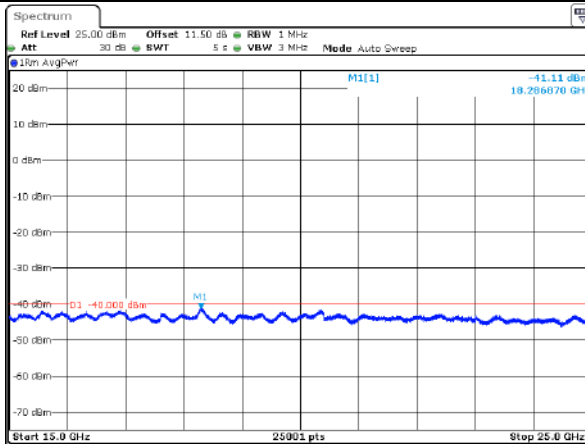
Spurious Emissions at Antenna Terminal

Channel

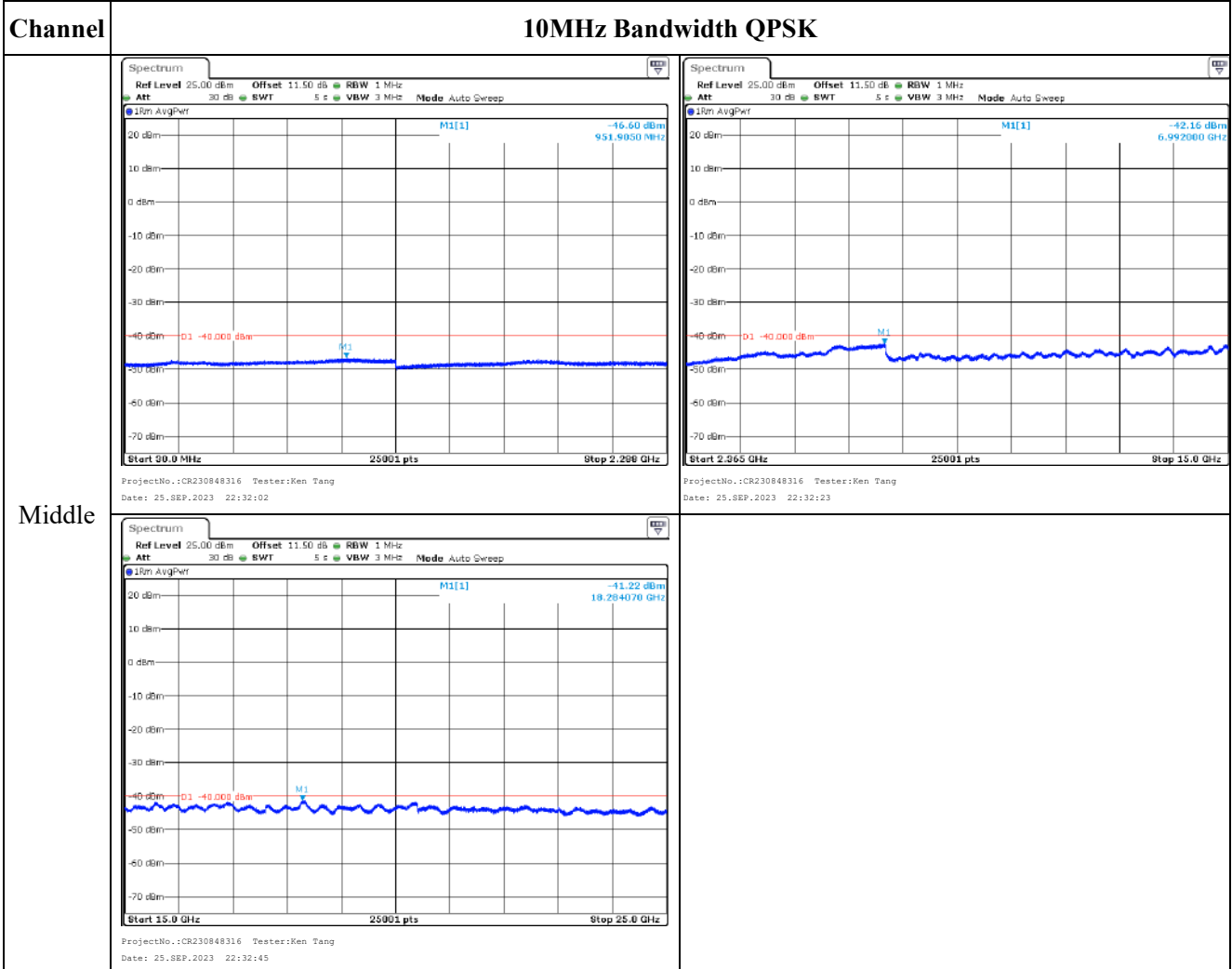
5MHz Bandwidth QPSK



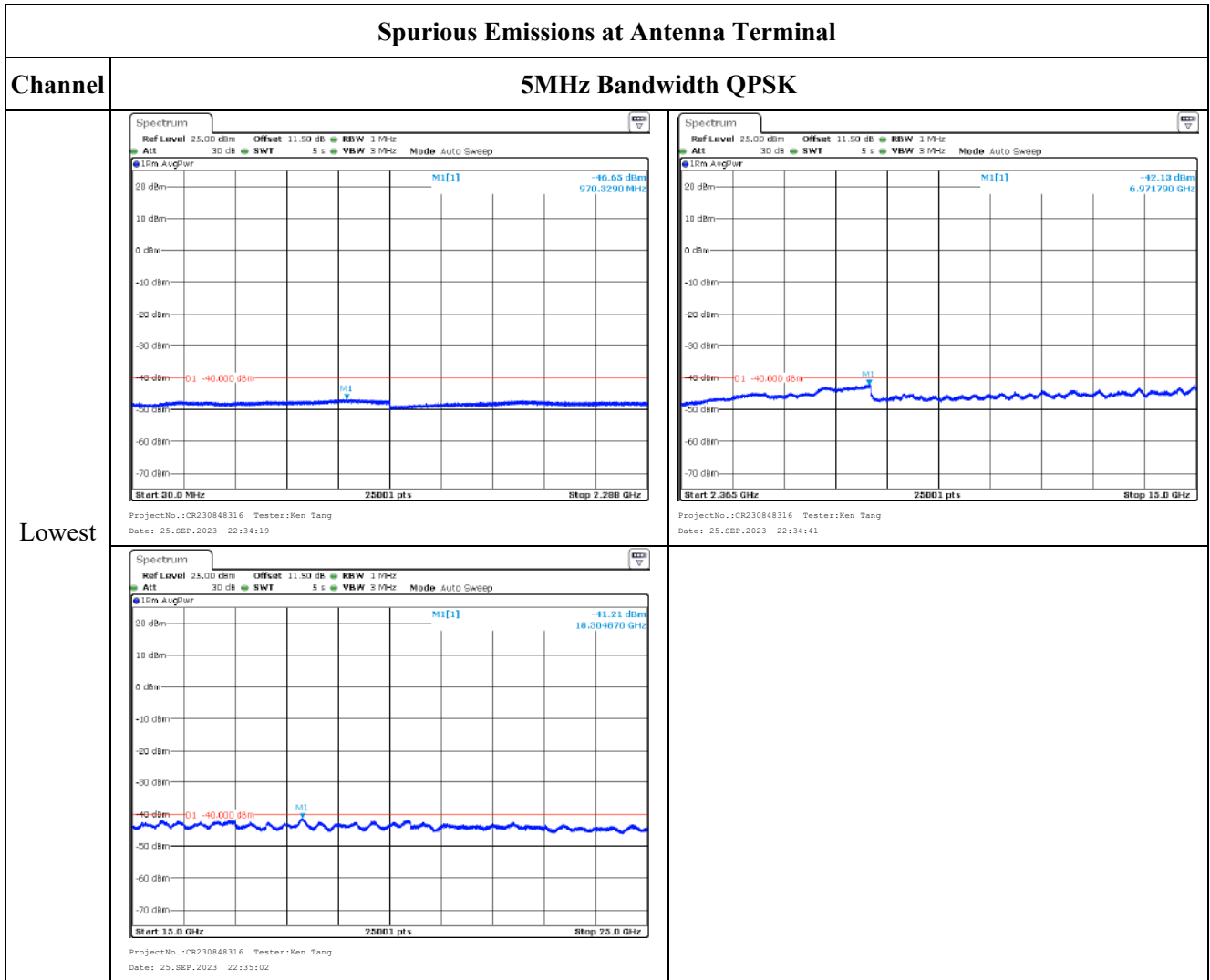
Highest



Spurious Emissions at Antenna Terminal



2350-2360 MHz:

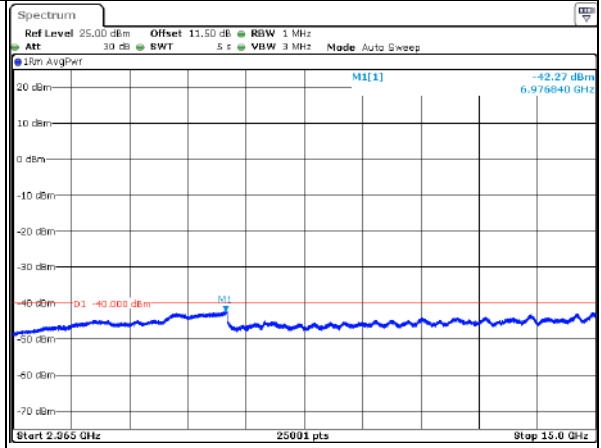
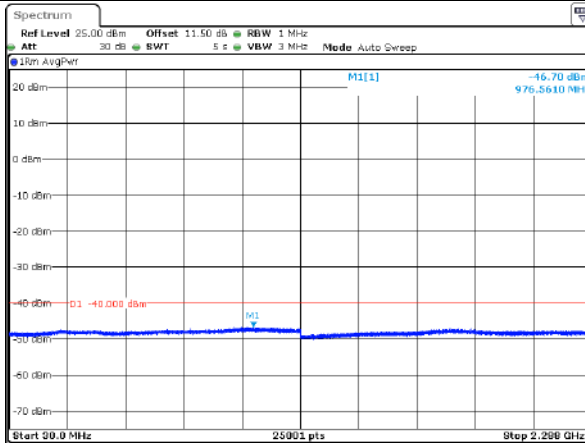


Spurious Emissions at Antenna Terminal

Channel

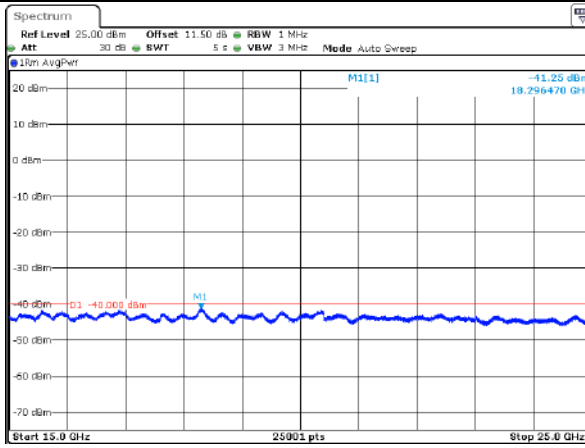
5MHz Bandwidth QPSK

Highest



ProjectNo.:CR230848316 Tester:Ken Tang
Date: 25.SEP.2023 22:36:27

ProjectNo.:CR230848316 Tester:Ken Tang
Date: 25.SEP.2023 22:36:50



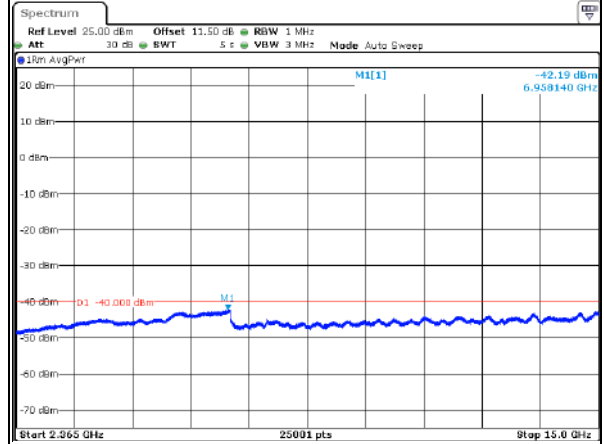
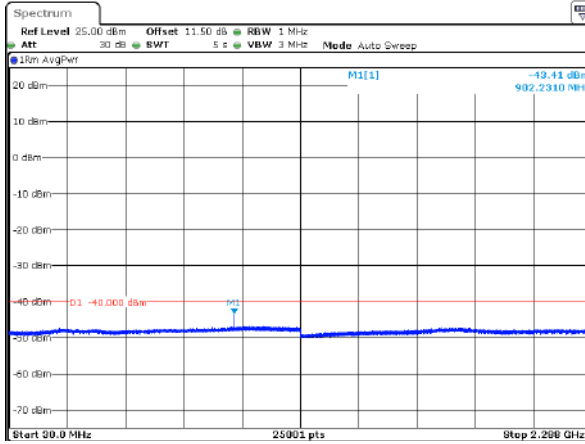
ProjectNo.:CR230848316 Tester:Ken Tang
Date: 25.SEP.2023 22:37:10

Spurious Emissions at Antenna Terminal

Channel

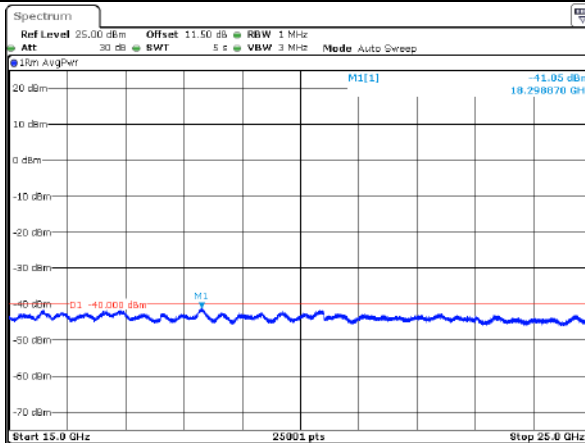
10MHz Bandwidth QPSK

Middle



ProjectNo.:CR230848316 Tester:Ken Tang
 Date: 25.SEP.2023 22:37:32

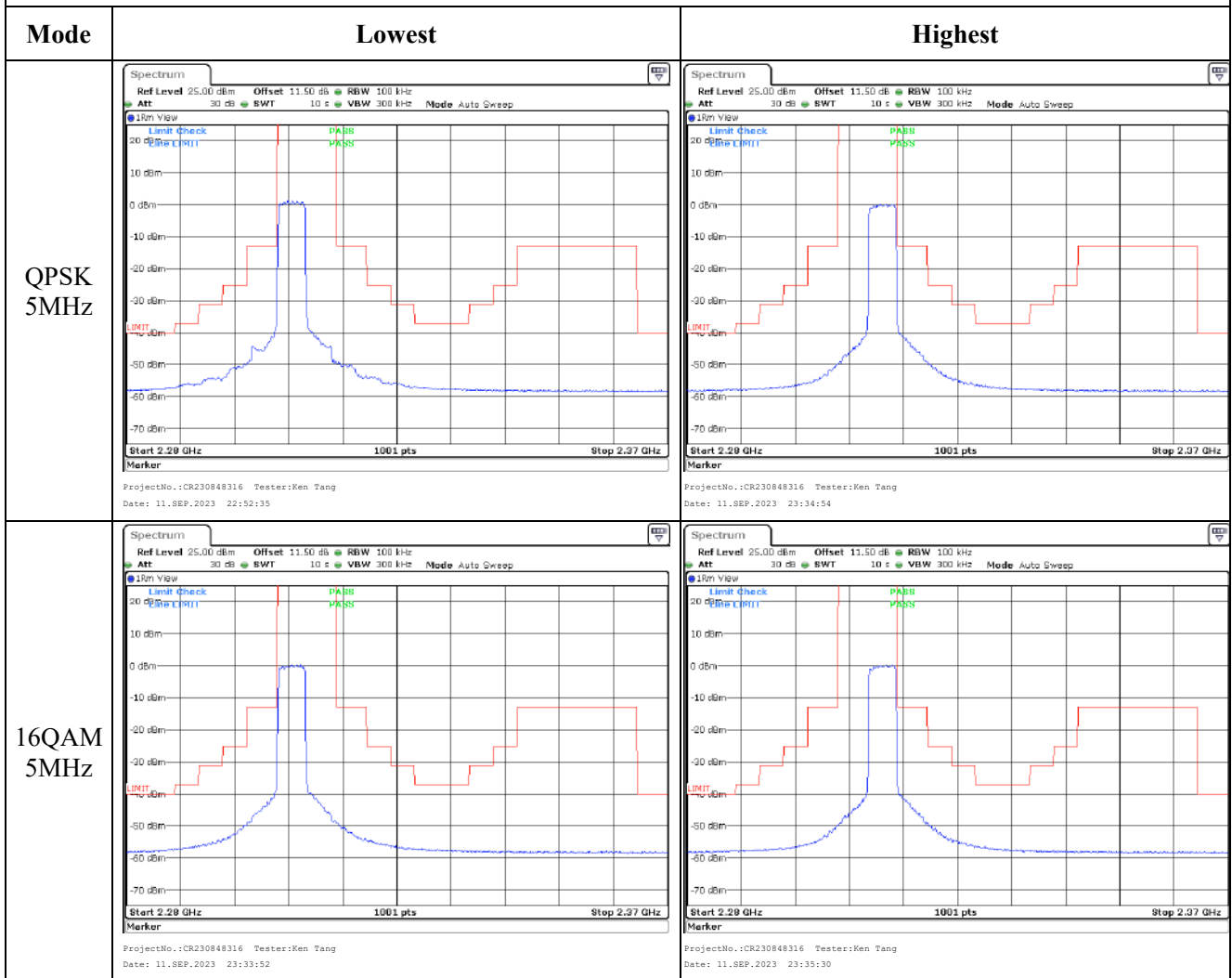
ProjectNo.:CR230848316 Tester:Ken Tang
 Date: 25.SEP.2023 22:37:54



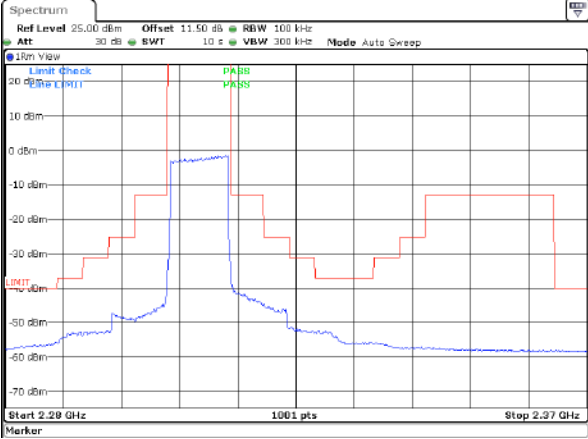
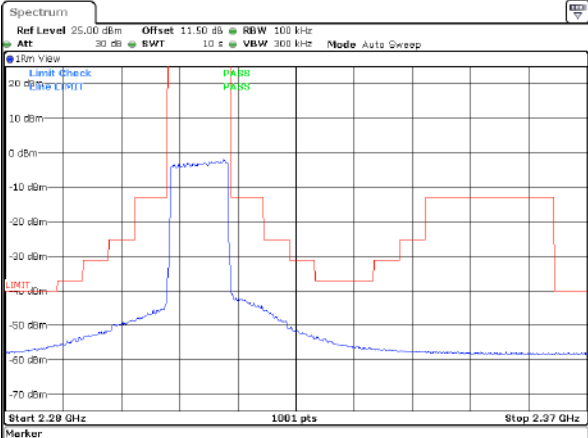
ProjectNo.:CR230848316 Tester:Ken Tang
 Date: 25.SEP.2023 22:38:16

2305-2315 MHz:

Out of band emission, Band Edge

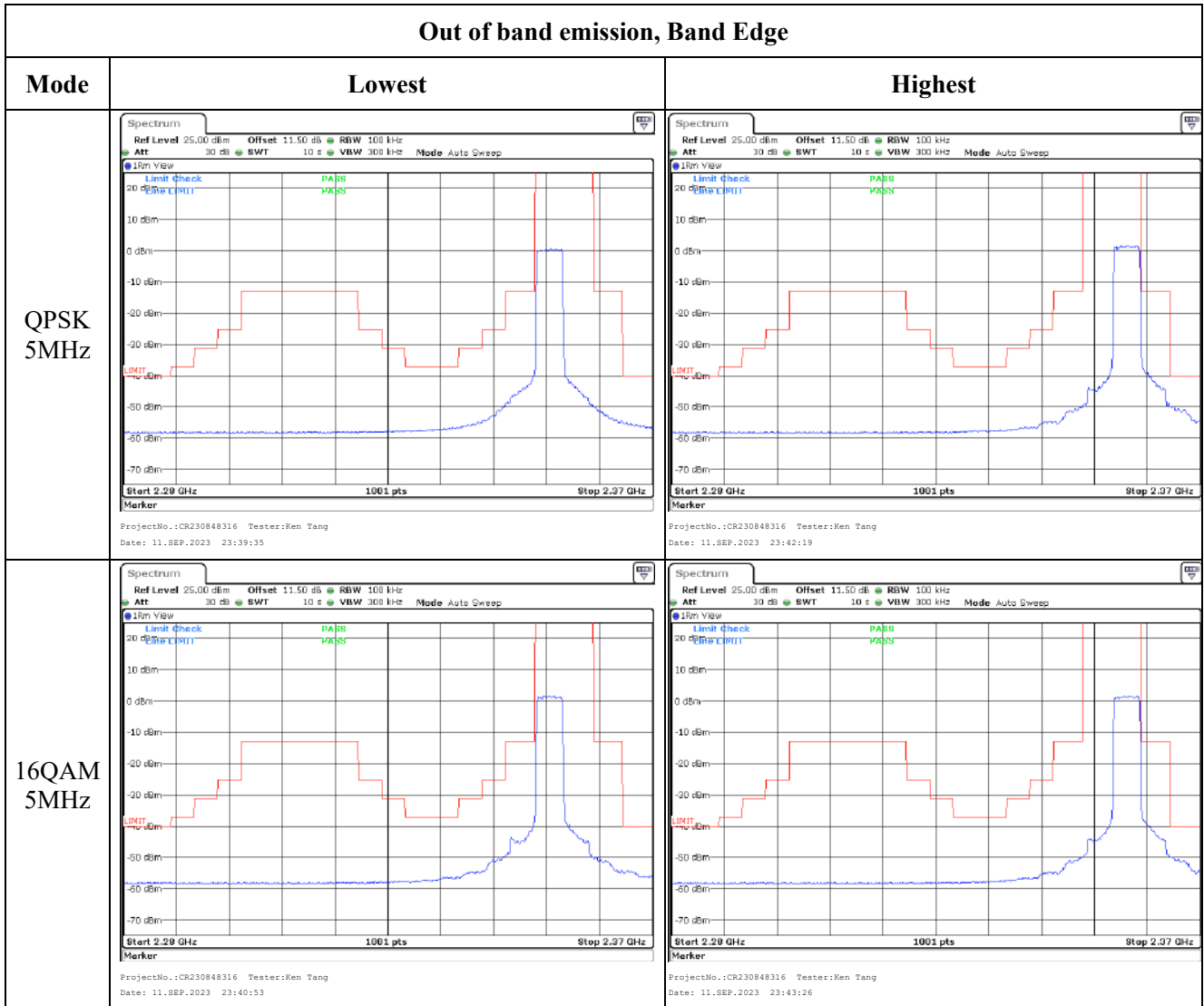


Out of band emission, Band Edge

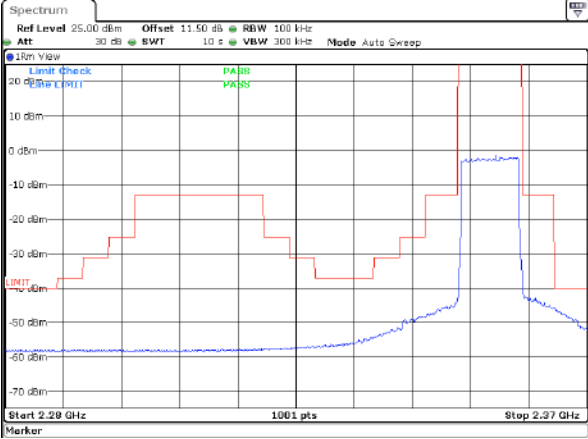
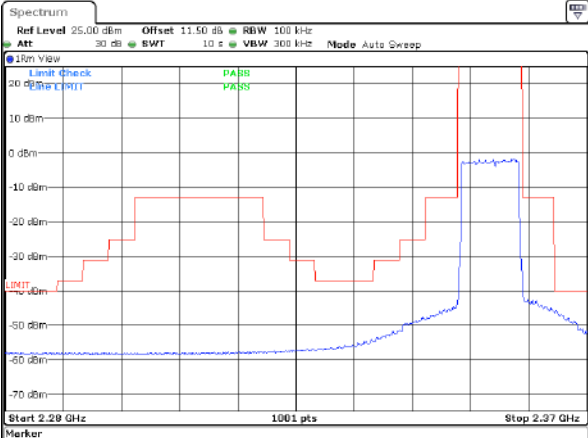
Mode	Middle
QPSK 10MHz	 <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 11.SEP.2023 23:36:51</p>
16QAM 10MHz	 <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 11.SEP.2023 23:37:48</p>

2350-2360 MHz:

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Middle
QPSK 10MHz	 <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 11.SEP.2023 23:45:03</p>
16QAM 10MHz	 <p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 11.SEP.2023 23:45:33</p>

2305-2315 MHz:

Duty cycle



2350-2360 MHz:

Duty cycle



4.14 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2A55-4	Test Date:	2023/9/8~2023/9/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4~ 26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100.5~100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
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

* 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	2537.5	2595	2652.5
10MHz	2540	2595	2650
15MHz	2542.5	2595	2647.5
20MHz	2545	2595	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	21.54	21.07	21.49	21.34	33
	RB1#13	21.51	20.97	21.46		
	RB1#24	21.47	21.04	21.46		
	RB15#0	20.38	20.10	20.34		
	RB15#10	20.36	20.10	20.39		
	RB25#0	20.31	20.07	20.41		
5MHz 16QAM	RB1#0	20.84	19.99	20.57	20.64	33
	RB1#13	20.77	20.04	20.44		
	RB1#24	20.79	19.98	20.42		
	RB15#0	19.60	19.30	19.49		
	RB15#10	19.68	19.29	19.54		
	RB25#0	19.71	19.05	19.62		
10MHz QPSK	RB1#0	21.54	21.19	21.43	21.42	33
	RB1#25	21.48	21.10	21.52		
	RB1#49	21.47	21.06	21.62		
	RB25#0	20.34	20.08	20.32		
	RB25#25	20.38	20.19	20.26		
	RB50#0	20.33	20.07	20.28		
10MHz 16QAM	RB1#0	21.27	20.14	20.46	21.07	33
	RB1#25	21.00	20.08	20.41		
	RB1#49	21.08	20.03	20.54		
	RB25#0	19.52	19.55	19.37		
	RB25#25	19.58	19.46	19.43		
	RB50#0	19.52	19.20	19.47		
15MHz QPSK	RB1#0	21.58	21.02	21.47	21.44	33
	RB1#38	21.39	21.08	21.57		
	RB1#74	21.34	21.11	21.64		
	RB36#0	20.38	20.18	20.30		
	RB36#39	20.33	20.14	20.44		
	RB75#0	20.40	20.15	20.36		
15MHz 16QAM	RB1#0	21.14	19.43	20.42	20.94	33
	RB1#38	20.80	19.45	20.57		
	RB1#74	20.75	19.51	20.68		
	RB36#0	19.65	19.36	19.36		
	RB36#39	19.57	19.33	19.46		
	RB75#0	19.55	19.28	19.46		

20MHz QPSK	RB1#0	21.46	21.43	21.25	21.26	33
	RB1#50	21.43	21.26	21.12		
	RB1#99	21.26	21.42	21.25		
	RB50#0	20.42	20.12	20.25		
	RB50#50	20.26	20.04	20.21		
	RB100#0	20.37	20.06	20.21		
20MHz 16QAM	RB1#0	20.13	20.97	21.03	20.98	33
	RB1#50	20.00	20.86	21.16		
	RB1#99	19.96	20.90	21.18		
	RB50#0	19.57	19.26	19.39		
	RB50#50	19.43	19.18	19.50		
	RB100#0	19.51	19.17	19.45		

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	8.55	8.46	8.49	13
	RB100#0	8.58	8.58	8.64	13
20MHz 16QAM	RB1#0	8.64	8.58	8.61	13
	RB100#0	8.52	8.64	8.55	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	4.511	4.491	5.080	5.180	4.980
5MHz 16QAM	4.511	4.511	4.511	5.140	5.040	5.200
10MHz QPSK	8.942	8.942	8.942	9.760	9.720	9.880
10MHz 16QAM	8.942	8.942	8.942	9.880	9.720	9.680
15MHz QPSK	13.533	13.473	13.533	14.940	15.360	15.060
15MHz 16QAM	13.533	13.533	13.533	14.940	15.000	15.120
20MHz QPSK	17.884	17.884	17.964	19.680	19.440	19.680
20MHz 16QAM	18.044	17.884	17.964	20.080	19.520	19.520

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	3.85	2535.048	2535.00	2654.985	2655
	-20	3.85	2535.040	2535.00	2654.995	2655
	-10	3.85	2535.036	2535.00	2654.991	2655
	0	3.85	2535.017	2535.00	2654.998	2655
	10	3.85	2535.032	2535.00	2654.992	2655
	20	3.85	2535.028	2535.00	2654.981	2655
	30	3.85	2535.027	2535.00	2654.989	2655
	40	3.85	2535.029	2535.00	2654.983	2655
Frequency Stability vs. Voltage	20	3.45	2535.018	2535.00	2654.986	2655
	20	4.4	2535.042	2535.00	2654.997	2655
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2535.038	2535.00	2654.998	2655
	-20	3.85	2535.042	2535.00	2654.986	2655
	-10	3.85	2535.003	2535.00	2654.998	2655
	0	3.85	2535.017	2535.00	2654.988	2655
	10	3.85	2535.023	2535.00	2654.987	2655
	20	3.85	2535.004	2535.00	2654.983	2655
	30	3.85	2535.033	2535.00	2654.983	2655
	40	3.85	2535.036	2535.00	2654.998	2655
	50	3.85	2535.007	2535.00	2655.000	2655
Frequency Stability vs. Voltage	20	3.45	2535.018	2535.00	2654.991	2655
	20	4.4	2535.014	2535.00	2654.982	2655
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:21:39</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:22:02</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:22:29</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:22:53</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:23:16</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:23:36</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:24:48</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:25:20</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:25:44</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:26:11</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:26:44</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:27:10</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:28:20</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:28:43</p>
Middle	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:29:08</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:29:34</p>
Highest	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:29:58</p>	<p>ProjectNo.:CR230848316 Testeri:Ken Tang Date: 8.SEP.2023 22:30:24</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:36:40</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:40:25</p>
Middle	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:40:53</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:41:29</p>
Highest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:41:58</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8.SEP.2023 22:42:30</p>

Spurious Emissions at Antenna Terminal

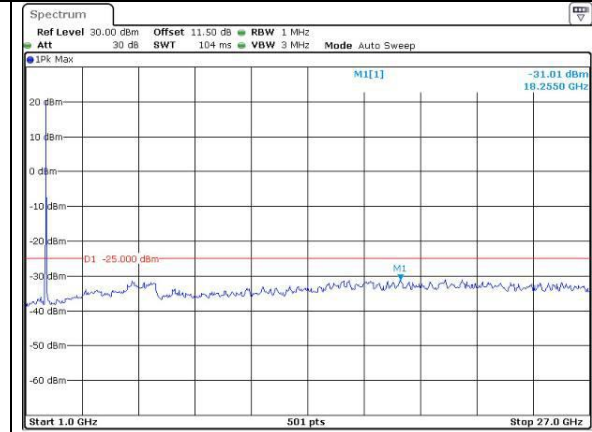
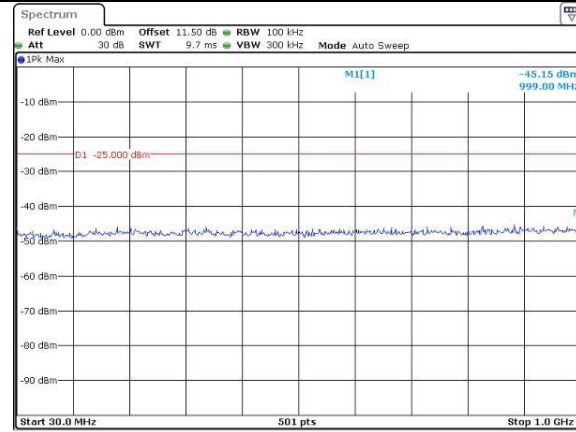
Channel	10MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:43:06</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:43:07</p>
Middle	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:44:18</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:44:19</p>
Highest	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:45:30</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 8_SEP.2023 22:46:12</p>

Spurious Emissions at Antenna Terminal

Channel

15MHz Bandwidth QPSK

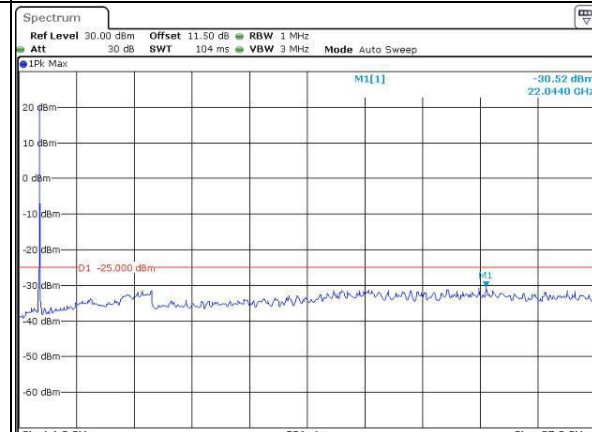
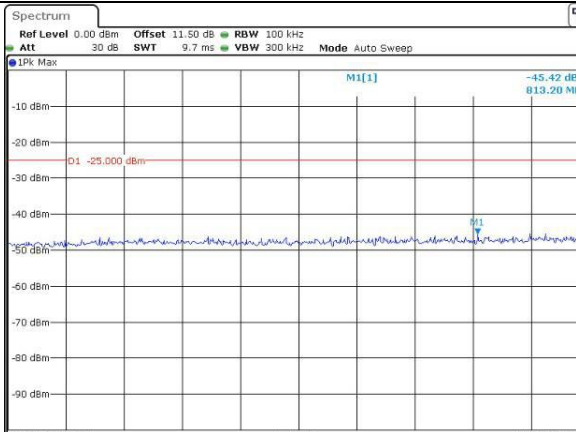
Lowest



ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:46:45

ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:47:54

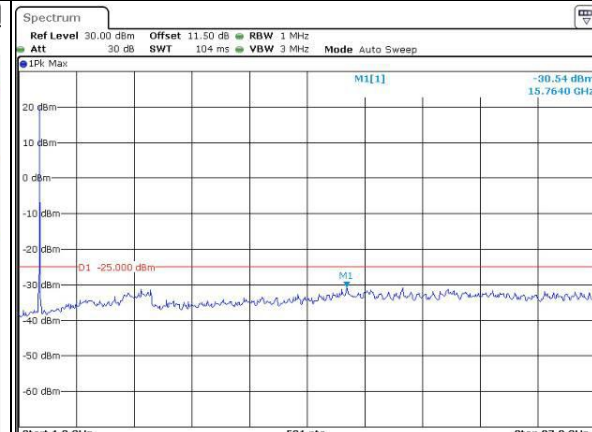
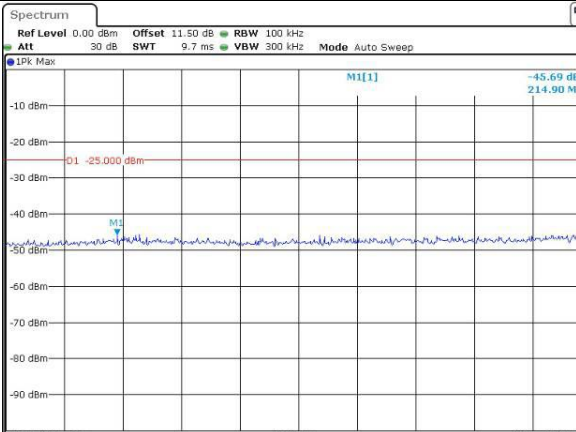
Middle



ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:48:20

ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:48:56

Highest



ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:49:25

ProjectNo.:CR230848316 Tester:Ken Tang
Date: 8.SEP.2023 22:49:57

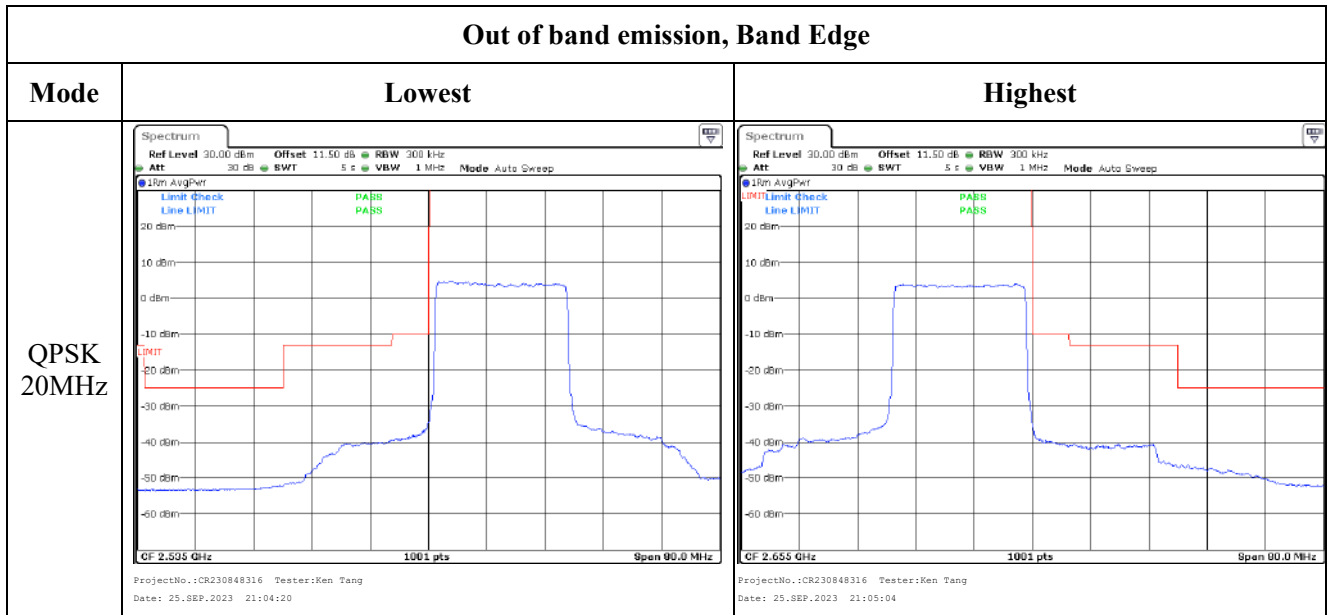
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>1Pk Max: M1[1] -45.42 dBm @ 933.20 MHz</p> <p>Ref Level: 0.00 dBm, Offset: 11.50 dB, RBW: 100 kHz, Att: 30 dB, SWT: 9.7 ms, VBW: 300 kHz, Mode: Auto Sweep</p> <p>Start: 30.0 MHz, Stop: 1.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:50:32</p>	<p>1Pk Max: M1[1] -30.85 dBm @ 20.2790 GHz</p> <p>Ref Level: 30.00 dBm, Offset: 11.50 dB, RBW: 1 MHz, Att: 30 dB, SWT: 104 ms, VBW: 3 MHz, Mode: Auto Sweep</p> <p>Start: 1.0 GHz, Stop: 27.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:51:13</p>
Middle	<p>1Pk Max: M1[1] -44.64 dBm @ 964.20 MHz</p> <p>Ref Level: 0.00 dBm, Offset: 11.50 dB, RBW: 100 kHz, Att: 30 dB, SWT: 9.7 ms, VBW: 300 kHz, Mode: Auto Sweep</p> <p>Start: 30.0 MHz, Stop: 1.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:51:47</p>	<p>1Pk Max: M1[1] -30.63 dBm @ 24.6910 GHz</p> <p>Ref Level: 30.00 dBm, Offset: 11.50 dB, RBW: 1 MHz, Att: 30 dB, SWT: 104 ms, VBW: 3 MHz, Mode: Auto Sweep</p> <p>Start: 1.0 GHz, Stop: 27.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:52:37</p>
Highest	<p>1Pk Max: M1[1] -44.91 dBm @ 880.00 MHz</p> <p>Ref Level: 0.00 dBm, Offset: 11.50 dB, RBW: 100 kHz, Att: 30 dB, SWT: 9.7 ms, VBW: 300 kHz, Mode: Auto Sweep</p> <p>Start: 30.0 MHz, Stop: 1.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:53:02</p>	<p>1Pk Max: M1[1] -30.99 dBm @ 16.9060 GHz</p> <p>Ref Level: 30.00 dBm, Offset: 11.50 dB, RBW: 1 MHz, Att: 30 dB, SWT: 104 ms, VBW: 3 MHz, Mode: Auto Sweep</p> <p>Start: 1.0 GHz, Stop: 27.0 GHz, 501 pts</p> <p>ProjectNo.: CR230848316, Tester: Ken Tang, Date: 8.SEP.2023 22:53:45</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:48:40</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:49:26</p>
QPSK 10MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:51:50</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:52:58</p>
QPSK 15MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:59:10</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 21:00:12</p>

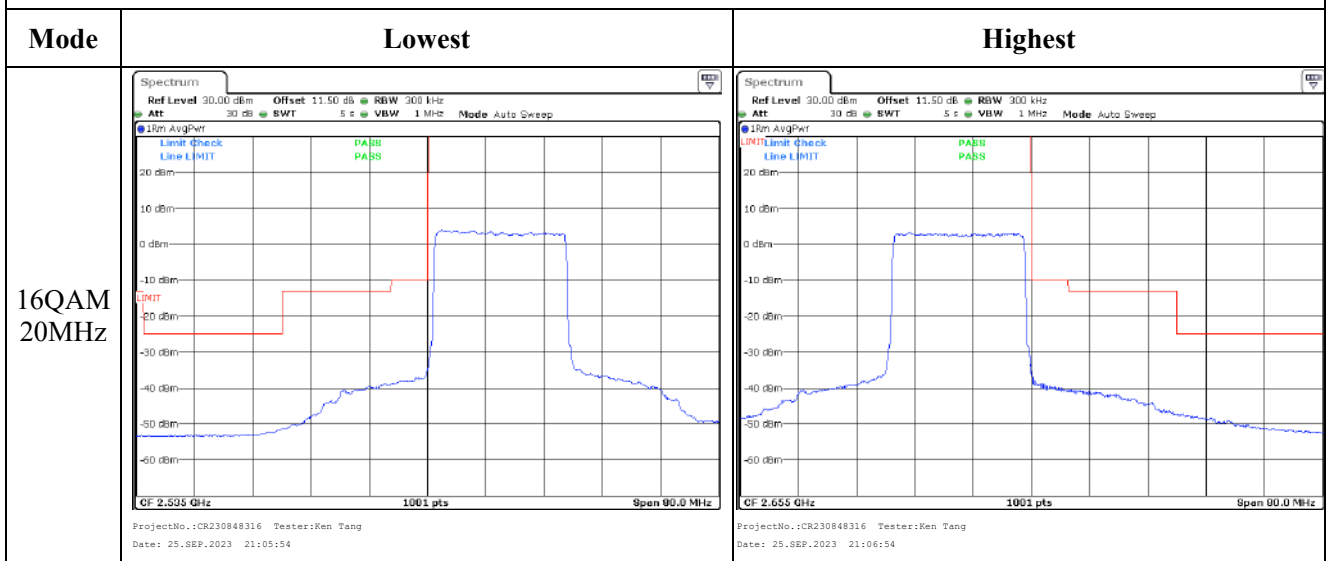
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:50:12</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:50:53</p>
16QAM 10MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:53:43</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 20:54:27</p>
16QAM 15MHz	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 21:00:59</p>	<p>ProjectNo.:CR230848316 Tester:Ken Tang Date: 25_SEP_2023 21:03:06</p>

Out of band emission, Band Edge



4.16 Radiated Spurious Emissions

Serial Number:	2A55-5	Test Date:	Below 1GHz: 2023/9/15 Above 1GHz: 2023/9/16
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Vic Du, Coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7~ 25.8	Relative Humidity: (%)	55~64	ATM Pressure: (kPa)	100 ~100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/16	2024/9/15
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17

* **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 Data:

Please refer to the below tables.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (30MHz-10GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
59.73	H	37.01	-66.79	-10.42	0.14	-77.35	-13.00	64.35
211.52	V	41.25	-68.43	0.00	0.26	-68.69	-13.00	55.69
1648.400	H	39.32	-65.01	8.68	0.80	-57.13	-13.00	44.13
1648.400	V	39.17	-65.24	8.68	0.80	-57.36	-13.00	44.36
2472.600	H	35.24	-65.54	9.38	1.00	-57.16	-13.00	44.16
2472.600	V	36.22	-64.51	9.38	1.00	-56.13	-13.00	43.13
3296.800	H	32.24	-64.44	10.32	1.15	-55.27	-13.00	42.27
3296.800	V	31.62	-64.82	10.32	1.15	-55.65	-13.00	42.65
GSM 850 Frequency:836.6MHz								
59.68	H	36.33	-67.45	-10.45	0.14	-78.04	-13.00	65.04
211.25	V	41.39	-68.29	0.00	0.26	-68.55	-13.00	55.55
1673.200	H	39.56	-64.75	8.71	0.85	-56.89	-13.00	43.89
1673.200	V	37.51	-66.90	8.71	0.85	-59.04	-13.00	46.04
2509.800	H	37.25	-63.36	9.42	1.01	-54.95	-13.00	41.95
2509.800	V	37.36	-63.26	9.42	1.01	-54.85	-13.00	41.85
3346.400	H	32.41	-64.76	10.34	1.16	-55.58	-13.00	42.58
3346.400	V	32.58	-64.45	10.34	1.16	-55.27	-13.00	42.27
GSM 850 Frequency:848.8MHz								
59.75	H	36.54	-67.26	-10.42	0.14	-77.82	-13.00	64.82
211.95	V	31.22	-78.48	0.00	0.26	-78.74	-13.00	65.74
1697.600	H	44.54	-59.75	8.74	0.90	-51.91	-13.00	38.91
1697.600	V	42.00	-62.42	8.74	0.90	-54.58	-13.00	41.58
2546.400	H	43.78	-56.55	9.47	1.01	-48.09	-13.00	35.09
2546.400	V	42.65	-57.63	9.47	1.01	-49.17	-13.00	36.17
3395.200	H	33.80	-63.89	10.36	1.19	-54.72	-13.00	41.72
3395.200	V	33.87	-63.79	10.36	1.19	-54.62	-13.00	41.62

PCS Band (30MHz-20GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
59.11	H	36.55	-67.06	-10.71	0.14	-77.91	-13.00	64.91
211.47	V	41.69	-67.99	0.00	0.26	-68.25	-13.00	55.25
3700.400	H	37.19	-60.13	10.60	1.25	-50.78	-13.00	37.78
3700.400	V	38.21	-59.09	10.60	1.25	-49.74	-13.00	36.74
5550.600	H	34.62	-58.64	11.44	1.49	-48.69	-13.00	35.69
5550.600	V	34.18	-58.92	11.44	1.49	-48.97	-13.00	35.97
GSM 1900 Frequency:1880MHz								
59.61	H	36.47	-67.29	-10.48	0.14	-77.91	-13.00	64.91
211.58	V	41.26	-68.43	0.00	0.26	-68.69	-13.00	55.69
3760.000	H	37.19	-59.22	10.66	1.24	-49.80	-13.00	36.80
3760.000	V	38.25	-58.04	10.66	1.24	-48.62	-13.00	35.62
5640.000	H	34.64	-58.81	11.33	1.54	-49.02	-13.00	36.02
5640.000	V	34.18	-59.15	11.33	1.54	-49.36	-13.00	36.36
GSM 1900 Frequency:1909.8MHz								
58.99	H	35.84	-67.74	-10.76	0.14	-78.64	-13.00	65.64
211.48	V	41.54	-68.14	0.00	0.26	-68.40	-13.00	55.40
3819.600	H	37.27	-58.59	10.72	1.29	-49.16	-13.00	36.16
3819.600	V	38.30	-57.42	10.72	1.29	-47.99	-13.00	34.99
5729.400	H	34.66	-58.82	11.22	1.59	-49.19	-13.00	36.19
5729.400	V	34.31	-59.05	11.22	1.59	-49.42	-13.00	36.42

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
59.02	H	36.41	-67.18	-10.75	0.14	-78.07	-13.00	65.07
211.74	V	41.17	-68.52	0.00	0.26	-68.78	-13.00	55.78
3704.800	H	32.16	-65.10	10.60	1.25	-55.75	-13.00	42.75
3704.800	V	32.11	-65.12	10.60	1.25	-55.77	-13.00	42.77
5557.200	H	42.15	-51.13	11.43	1.49	-41.19	-13.00	28.19
5557.200	V	42.78	-50.35	11.43	1.49	-40.41	-13.00	27.41
WCDMA Band II, Frequency:1880 MHz								
59.14	H	36.52	-67.10	-10.70	0.14	-77.94	-13.00	64.94
210.98	V	41.56	-68.11	0.00	0.26	-68.37	-13.00	55.37
3760.000	H	32.16	-64.25	10.66	1.24	-54.83	-13.00	41.83
3760.000	V	32.25	-64.04	10.66	1.24	-54.62	-13.00	41.62
5640.000	H	42.20	-51.25	11.33	1.54	-41.46	-13.00	28.46
5640.000	V	42.86	-50.47	11.33	1.54	-40.68	-13.00	27.68
WCDMA Band II, Frequency:1907.6MHz								
59.31	H	36.88	-66.79	-10.62	0.14	-77.55	-13.00	64.55
211.51	V	41.32	-68.36	0.00	0.26	-68.62	-13.00	55.62
3815.200	H	32.25	-63.60	10.72	1.29	-54.17	-13.00	41.17
3815.200	V	32.23	-63.46	10.72	1.29	-54.03	-13.00	41.03
5722.800	H	42.20	-51.29	11.23	1.58	-41.64	-13.00	28.64
5722.800	V	42.92	-50.43	11.23	1.58	-40.78	-13.00	27.78

WCDMA Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1712.4	MHz				
59.16	H	36.24	-67.39	-10.69	0.14	-78.22	-13.00	65.22
211.35	V	41.48	-68.20	0.00	0.26	-68.46	-13.00	55.46
3424.800	H	33.14	-64.63	10.37	1.17	-55.43	-13.00	42.43
3424.800	V	35.53	-62.21	10.37	1.17	-53.01	-13.00	40.01
5137.200	H	30.56	-63.06	11.28	1.46	-53.24	-13.00	40.24
5137.200	V	30.17	-63.33	11.28	1.46	-53.51	-13.00	40.51
Frequency:			1732.6	MHz				
59.24	H	36.32	-67.33	-10.65	0.14	-78.12	-13.00	65.12
211.68	V	41.78	-67.91	0.00	0.26	-68.17	-13.00	55.17
3465.200	H	33.16	-64.65	10.39	1.15	-55.41	-13.00	42.41
3465.200	V	35.62	-62.15	10.39	1.15	-52.91	-13.00	39.91
5197.800	H	30.62	-63.51	11.32	1.44	-53.63	-13.00	40.63
5197.800	V	30.20	-63.78	11.32	1.44	-53.90	-13.00	40.90
Frequency:			1752.6	MHz				
59.24	H	36.24	-67.41	-10.65	0.14	-78.20	-13.00	65.20
211.36	V	41.23	-68.45	0.00	0.26	-68.71	-13.00	55.71
3505.200	H	33.15	-64.68	10.41	1.18	-55.45	-13.00	42.45
3505.200	V	35.67	-62.10	10.41	1.18	-52.87	-13.00	39.87
5257.800	H	30.64	-63.09	11.35	1.47	-53.21	-13.00	40.21
5257.800	V	30.20	-63.31	11.35	1.47	-53.43	-13.00	40.43

WCDMA Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
59.81	H	36.24	-67.58	-10.39	0.14	-78.11	-13.00	65.11
211.35	V	41.36	-68.32	0.00	0.26	-68.58	-13.00	55.58
1652.800	H	37.85	-66.48	8.68	0.81	-58.61	-13.00	45.61
1652.800	V	36.11	-68.30	8.68	0.81	-60.43	-13.00	47.43
2479.200	H	34.26	-66.50	9.39	1.01	-58.12	-13.00	45.12
2479.200	V	33.81	-66.92	9.39	1.01	-58.54	-13.00	45.54
WCDMA Band 5 Frequency:836.6MHz								
59.68	H	37.04	-66.74	-10.45	0.14	-77.33	-13.00	64.33
211.48	V	41.85	-67.83	0.00	0.26	-68.09	-13.00	55.09
1673.200	H	37.88	-66.43	8.71	0.85	-58.57	-13.00	45.57
1673.200	V	36.16	-68.25	8.71	0.85	-60.39	-13.00	47.39
2509.800	H	34.34	-66.27	9.42	1.01	-57.86	-13.00	44.86
2509.800	V	33.87	-66.75	9.42	1.01	-58.34	-13.00	45.34
WCDMA Band 5 Frequency:846.6MHz								
59.62	H	36.54	-67.23	-10.47	0.14	-77.84	-13.00	64.84
211.24	V	41.32	-68.36	0.00	0.26	-68.62	-13.00	55.62
1693.200	H	37.90	-66.40	8.73	0.89	-58.56	-13.00	45.56
1693.200	V	36.22	-68.20	8.73	0.89	-60.36	-13.00	47.36
2539.800	H	34.32	-66.06	9.46	1.01	-57.61	-13.00	44.61
2539.800	V	33.87	-66.47	9.46	1.01	-58.02	-13.00	45.02

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency:1850.7 MHz								
59.24	H	36.63	-67.02	-10.65	0.14	-77.81	-13.00	64.81
211.47	V	41.21	-68.47	0.00	0.26	-68.73	-13.00	55.73
3701.400	H	33.23	-64.08	10.60	1.25	-54.73	-13.00	41.73
3701.400	V	37.54	-59.75	10.60	1.25	-50.40	-13.00	37.40
5552.100	H	50.42	-42.85	11.44	1.49	-32.90	-13.00	19.90
5552.100	V	49.85	-43.25	11.44	1.49	-33.30	-13.00	20.30
QPSK, 1.4MHz, Frequency:1880 MHz								
59.65	H	36.45	-67.32	-10.46	0.14	-77.92	-13.00	64.92
211.83	V	41.36	-68.34	0.00	0.26	-68.60	-13.00	55.60
3760.000	H	33.28	-63.13	10.66	1.24	-53.71	-13.00	40.71
3760.000	V	37.59	-58.70	10.66	1.24	-49.28	-13.00	36.28
5640.000	H	50.52	-42.93	11.33	1.54	-33.14	-13.00	20.14
5640.000	V	49.88	-43.45	11.33	1.54	-33.66	-13.00	20.66
QPSK, 1.4MHz, Frequency:1909.3 MHz								
59.68	H	36.52	-67.26	-10.45	0.14	-77.85	-13.00	64.85
211.93	V	31.55	-78.15	0.00	0.26	-78.41	-13.00	65.41
3818.600	H	33.36	-62.50	10.72	1.29	-53.07	-13.00	40.07
3818.600	V	37.67	-58.04	10.72	1.29	-48.61	-13.00	35.61
5727.900	H	50.53	-42.95	11.23	1.59	-33.31	-13.00	20.31
5727.900	V	49.93	-43.43	11.23	1.59	-33.79	-13.00	20.79

LTE Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			1710.7 MHz					
59.48	H	36.75	-66.97	-10.54	0.14	-77.65	-13.00	64.65
211.47	V	41.37	-68.31	0.00	0.26	-68.57	-13.00	55.57
3421.400	H	33.55	-64.21	10.37	1.17	-55.01	-13.00	42.01
3421.400	V	34.61	-63.12	10.37	1.17	-53.92	-13.00	40.92
5132.100	H	31.87	-61.70	11.28	1.47	-51.89	-13.00	38.89
5132.100	V	31.63	-61.83	11.28	1.47	-52.02	-13.00	39.02
1.4MHz QPSK, Frequency:			1732.5 MHz					
59.36	H	36.59	-67.10	-10.59	0.14	-77.83	-13.00	64.83
211.44	V	41.22	-68.46	0.00	0.26	-68.72	-13.00	55.72
3465.000	H	33.59	-64.22	10.39	1.15	-54.98	-13.00	41.98
3465.000	V	34.63	-63.14	10.39	1.15	-53.90	-13.00	40.90
5197.500	H	31.97	-62.16	11.32	1.44	-52.28	-13.00	39.28
5197.500	V	31.72	-62.26	11.32	1.44	-52.38	-13.00	39.38
1.4MHz QPSK, Frequency:			1754.3 MHz					
59.36	H	36.88	-66.81	-10.59	0.14	-77.54	-13.00	64.54
211.11	V	41.26	-68.41	0.00	0.26	-68.67	-13.00	55.67
3508.600	H	33.69	-64.13	10.41	1.19	-54.91	-13.00	41.91
3508.600	V	34.61	-63.15	10.41	1.19	-53.93	-13.00	40.93
5262.900	H	31.95	-61.75	11.36	1.47	-51.86	-13.00	38.86
5262.900	V	31.65	-61.82	11.36	1.47	-51.93	-13.00	38.93

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency: 824.7 MHz								
59.21	H	36.54	-67.10	-10.66	0.14	-77.90	-13.00	64.90
211.26	V	31.45	-78.23	0.00	0.26	-78.49	-13.00	65.49
1649.400	H	46.94	-57.39	8.68	0.80	-49.51	-13.00	36.51
1649.400	V	39.46	-64.95	8.68	0.80	-57.07	-13.00	44.07
2474.100	H	38.50	-62.28	9.38	1.00	-53.90	-13.00	40.90
2474.100	V	38.55	-62.18	9.38	1.00	-53.80	-13.00	40.80
3298.800	H	34.36	-62.32	10.32	1.15	-53.15	-13.00	40.15
3298.800	V	34.85	-61.59	10.32	1.15	-52.42	-13.00	39.42
QPSK, 1.4MHz, Frequency: 836.5 MHz								
59.34	H	36.36	-67.32	-10.60	0.14	-78.06	-13.00	65.06
211.27	V	41.35	-68.33	0.00	0.26	-68.59	-13.00	55.59
1673.000	H	47.14	-57.17	8.71	0.85	-49.31	-13.00	36.31
1673.000	V	39.27	-65.14	8.71	0.85	-57.28	-13.00	44.28
2509.500	H	38.73	-61.88	9.42	1.01	-53.47	-13.00	40.47
2509.500	V	38.51	-62.11	9.42	1.01	-53.70	-13.00	40.70
3346.000	H	34.27	-62.89	10.34	1.16	-53.71	-13.00	40.71
3346.000	V	35.01	-62.01	10.34	1.16	-52.83	-13.00	39.83
QPSK, 1.4MHz, Frequency: 848.3 MHz								
59.73	H	36.44	-67.36	-10.42	0.14	-77.92	-13.00	64.92
211.39	V	41.26	-68.42	0.00	0.26	-68.68	-13.00	55.68
1696.600	H	47.28	-57.01	8.74	0.89	-49.16	-13.00	36.16
1696.600	V	39.23	-65.19	8.74	0.89	-57.34	-13.00	44.34
2544.900	H	38.77	-61.57	9.47	1.01	-53.11	-13.00	40.11
2544.900	V	38.47	-61.83	9.47	1.01	-53.37	-13.00	40.37
3393.200	H	34.07	-63.60	10.36	1.19	-54.43	-13.00	41.43
3393.200	V	35.05	-62.58	10.36	1.19	-53.41	-13.00	40.41

LTE Band 7(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency:			2502.5 MHz					
59.21	H	36.09	-67.55	-10.66	0.14	-78.35	-25.00	53.35
211.48	V	41.16	-68.52	0.00	0.26	-68.78	-25.00	43.78
5005.000	H	32.30	-60.66	11.20	1.47	-50.93	-25.00	25.93
5005.000	V	33.46	-59.36	11.20	1.47	-49.63	-25.00	24.63
7507.500	H	37.03	-52.76	10.90	1.95	-43.81	-25.00	18.81
7507.500	V	38.07	-52.22	10.90	1.95	-43.27	-25.00	18.27
5MHz QPSK, Frequency:			2535 MHz					
59.21	H	36.09	-67.55	-10.66	0.14	-78.35	-25.00	53.35
211.48	V	41.16	-68.52	0.00	0.26	-68.78	-25.00	43.78
5070.000	H	32.96	-60.23	11.24	1.47	-50.46	-25.00	25.46
5070.000	V	33.02	-60.07	11.24	1.47	-50.30	-25.00	25.30
7605.000	H	36.17	-53.30	10.88	2.01	-44.43	-25.00	19.43
7605.000	V	37.11	-53.08	10.88	2.01	-44.21	-25.00	19.21
5MHz QPSK, Frequency:			2567.5 MHz					
59.36	H	36.56	-67.13	-10.59	0.14	-77.86	-25.00	52.86
211.41	V	41.15	-68.53	0.00	0.26	-68.79	-25.00	43.79
5135.000	H	33.85	-59.75	11.28	1.47	-49.94	-25.00	24.94
5135.000	V	33.23	-60.26	11.28	1.47	-50.45	-25.00	25.45
7702.500	H	35.16	-54.36	10.86	1.97	-45.47	-25.00	20.47
7702.500	V	36.26	-53.92	10.86	1.97	-45.03	-25.00	20.03

LTE Band 38 (30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency:			2572.5	MHz				
59.36	H	36.65	-67.04	-10.59	0.14	-77.77	-25.00	52.77
211.57	V	41.11	-68.58	0.00	0.26	-68.84	-25.00	43.84
5145.000	H	33.25	-60.43	11.29	1.44	-50.58	-25.00	25.58
5145.000	V	32.45	-61.12	11.29	1.44	-51.27	-25.00	26.27
7717.500	H	36.75	-52.76	10.86	1.99	-43.89	-25.00	18.89
7717.500	V	36.11	-54.02	10.86	1.99	-45.15	-25.00	20.15
5MHz QPSK, Frequency:			2595	MHz				
59.21	H	36.22	-67.42	-10.66	0.14	-78.22	-25.00	53.22
211.49	V	41.36	-68.32	0.00	0.26	-68.58	-25.00	43.58
5190.000	H	32.96	-61.11	11.31	1.44	-51.24	-25.00	26.24
5190.000	V	32.76	-61.16	11.31	1.44	-51.29	-25.00	26.29
7785.000	H	36.12	-53.37	10.84	1.99	-44.52	-25.00	19.52
7785.000	V	36.21	-53.71	10.84	1.99	-44.86	-25.00	19.86
5MHz QPSK, Frequency:			2617.5	MHz				
59.36	H	36.57	-67.12	-10.59	0.14	-77.85	-25.00	52.85
211.41	V	41.55	-68.13	0.00	0.26	-68.39	-25.00	43.39
5235.000	H	32.58	-61.32	11.34	1.46	-51.44	-25.00	26.44
5235.000	V	32.44	-61.27	11.34	1.46	-51.39	-25.00	26.39
7852.500	H	36.25	-52.94	10.83	2.03	-44.14	-25.00	19.14
7852.500	V	36.34	-53.24	10.83	2.03	-44.44	-25.00	19.44

LTE Band 40 Lower (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2307.5 MHz								
59.36	H	36.44	-67.25	-10.59	0.14	-77.98	-40.00	37.98
211.42	V	41.26	-68.42	0.00	0.26	-68.68	-40.00	28.68
4615.000	H	33.28	-62.08	10.74	1.41	-52.75	-40.00	12.75
4615.000	V	34.56	-60.66	10.74	1.41	-51.33	-40.00	11.33
5MHz QPSK, Frequency: 2312.5 MHz								
59.29	H	36.55	-67.12	-10.63	0.14	-77.89	-40.00	37.89
211.48	V	41.18	-68.50	0.00	0.26	-68.76	-40.00	28.76
4625.000	H	33.56	-61.73	10.75	1.41	-52.39	-40.00	12.39
4625.000	V	34.29	-60.88	10.75	1.41	-51.54	-40.00	11.54

LTE Band 40 Upper (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2352.5 MHz								
59.31	H	36.75	-66.92	-10.62	0.14	-77.68	-40.00	37.68
211.54	V	41.32	-68.37	0.00	0.26	-68.63	-40.00	28.63
4705.000	H	33.66	-61.12	10.85	1.41	-51.68	-40.00	11.68
4705.000	V	34.71	-60.09	10.85	1.41	-50.65	-40.00	10.65
5MHz QPSK, Frequency: 2357.5 MHz								
59.16	H	36.49	-67.14	-10.69	0.14	-77.97	-40.00	37.97
211.47	V	41.36	-68.32	0.00	0.26	-68.58	-40.00	28.58
4715.000	H	33.94	-60.77	10.86	1.41	-51.32	-40.00	11.32
4715.000	V	34.09	-60.62	10.86	1.41	-51.17	-40.00	11.17

LTE Band 41 (30MHz-27GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 2537.5 MHz								
59.14	H	36.84	-66.78	-10.70	0.14	-77.62	-25.00	52.62
211.27	V	41.55	-68.13	0.00	0.26	-68.39	-25.00	43.39
5075.000	H	32.65	-60.56	11.25	1.48	-50.79	-25.00	25.79
5075.000	V	32.47	-60.64	11.25	1.48	-50.87	-25.00	25.87
QPSK, 5MHz, Frequency:2595 MHz								
59.18	H	36.07	-67.56	-10.68	0.14	-78.38	-25.00	53.38
211.39	V	41.21	-68.47	0.00	0.26	-68.73	-25.00	43.73
5190.000	H	32.29	-61.78	11.31	1.44	-51.91	-25.00	26.91
5190.000	V	32.44	-61.48	11.31	1.44	-51.61	-25.00	26.61
QPSK, 5MHz, Frequency: 2652.5 MHz								
59.09	H	36.29	-67.32	-10.72	0.14	-78.18	-25.00	53.18
211.12	V	41.55	-68.12	0.00	0.26	-68.38	-25.00	43.38
5305.000	H	32.13	-61.31	11.38	1.46	-51.39	-25.00	26.39
5305.000	V	32.08	-61.10	11.38	1.46	-51.18	-25.00	26.18

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230848316-EXP EUT EXTERNAL PHOTOGRAPHS and CR230848316-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230848316-00E-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====