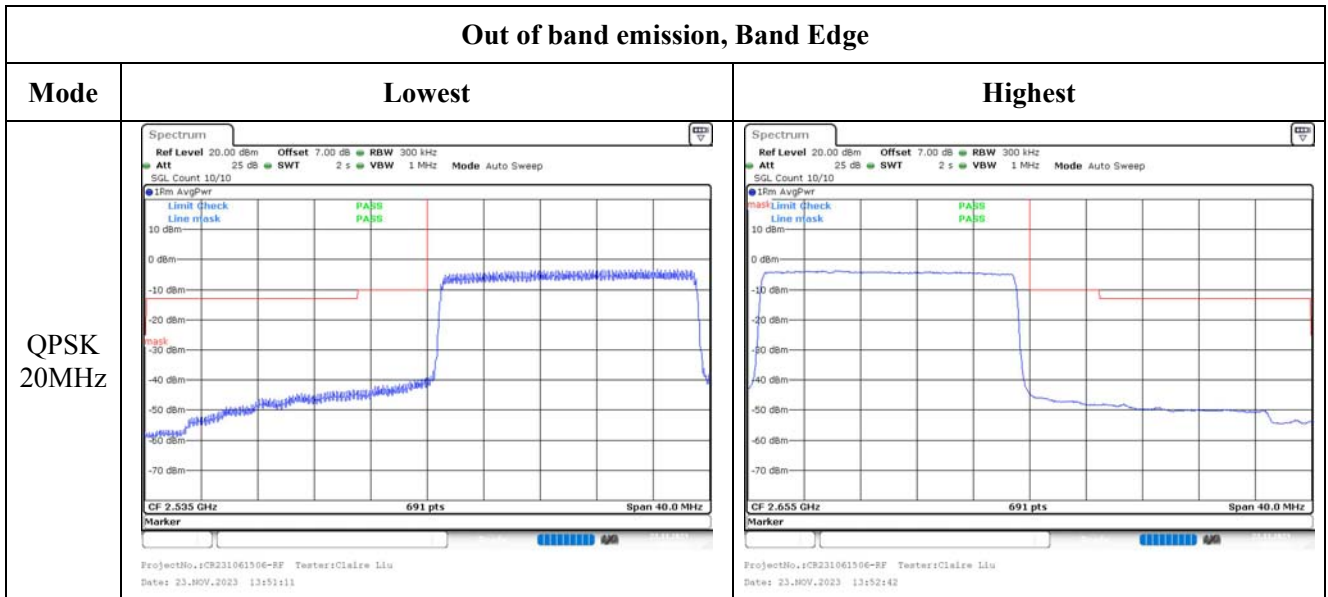


Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:38:55</p>	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:35:58</p>
QPSK 10MHz	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:41:40</p>	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:43:08</p>
QPSK 15MHz	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:45:20</p>	<p>ProjectNo.:CR231061506-RF Testter: Claire Liu Date: 23.NOV.2023 13:49:06</p>

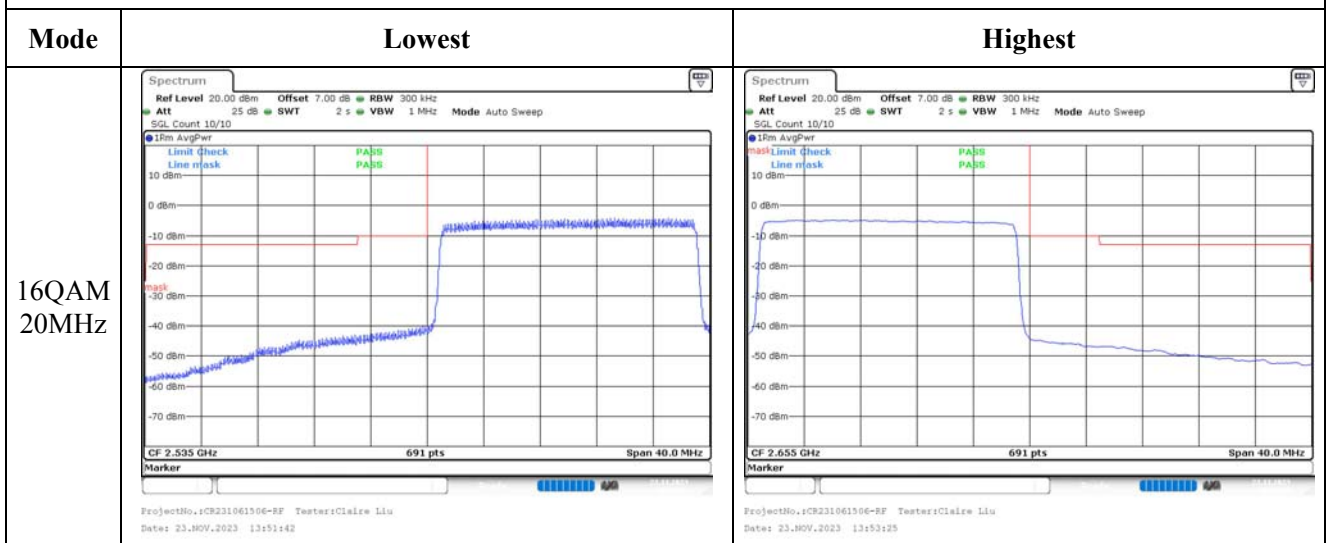
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:39:37</p>	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:35:21</p>
16QAM 10MHz	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:42:10</p>	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:43:44</p>
16QAM 15MHz	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:45:52</p>	<p>ProjectNo.:CR231061506-RF Testers: Claire Liu Date: 23.NOV.2023 13:49:37</p>

Out of band emission, Band Edge



4.17 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	2CIM-1	Test Date:	2023/11/12~2023/12/9
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7~25.5	Relative Humidity: (%)	53~62	ATM Pressure: (kPa)	100.1~102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2022/11/25	2023/11/24
zhuoxiang	Coaxial Cable	SMA-178	211002	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
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2023/9/28	2024/9/27
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15

* 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:**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	16.59	16.43	16.63	14.14	30
	RB1#3	16.66	16.48	16.76		
	RB1#5	16.55	16.4	16.69		
	RB3#0	16.72	16.5	16.8		
	RB3#3	16.72	16.53	16.84		
	RB6#0	15.76	15.59	15.85		
1.4MHz 16QAM	RB1#0	15.6	15.52	15.67	13.2	30
	RB1#3	15.67	15.6	15.79		
	RB1#5	15.61	15.46	15.71		
	RB3#0	15.88	15.47	15.88		
	RB3#3	15.9	15.49	15.9		
	RB6#0	14.87	14.74	14.82		
3MHz QPSK	RB1#0	16.45	16.23	16.45	13.9	30
	RB1#8	16.53	16.3	16.6		
	RB1#14	16.52	16.22	16.5		
	RB6#0	15.59	15.42	15.67		
	RB6#9	15.67	15.44	15.73		
	RB15#0	15.64	15.41	15.73		
3MHz 16QAM	RB1#0	15.52	15.23	16.13	13.49	30
	RB1#8	15.66	15.37	16.19		
	RB1#14	15.64	15.26	16.05		
	RB6#0	14.7	14.52	14.8		
	RB6#9	14.83	14.55	14.78		
	RB15#0	14.69	14.55	14.79		
5MHz QPSK	RB1#0	16.72	16.5	16.77	14.2	30
	RB1#13	16.9	16.64	16.89		
	RB1#24	16.75	16.53	16.85		
	RB15#0	15.73	15.55	15.82		
	RB15#10	15.78	15.57	15.82		
	RB25#0	15.76	15.56	15.8		
5MHz 16QAM	RB1#0	15.97	15.59	15.67	13.46	30
	RB1#13	16.16	15.73	15.83		
	RB1#24	16.05	15.61	15.73		
	RB15#0	14.81	14.68	14.85		
	RB15#10	14.86	14.68	14.87		
	RB25#0	14.86	14.65	14.84		
10MHz QPSK	RB1#0	16.67	16.58	16.82	14.26	30
	RB1#25	16.83	16.62	16.91		
	RB1#49	16.84	16.57	16.96		
	RB25#0	15.66	15.55	15.78		

	RB25#25	15.78	15.57	15.86		
	RB50#0	15.77	15.58	15.81		
10MHz 16QAM	RB1#0	15.74	16.21	15.93	13.53	30
	RB1#25	15.82	16.23	16.05		
	RB1#49	15.83	16.19	16.03		
	RB25#0	14.87	14.73	14.81		
	RB25#25	15.01	14.67	14.89		
	RB50#0	14.9	14.61	14.82		
15MHz QPSK	RB1#0	16.65	16.53	16.59	14.23	30
	RB1#38	16.86	16.61	16.89		
	RB1#74	16.77	16.56	16.93		
	RB36#0	15.69	15.58	15.66		
	RB36#39	15.85	15.56	15.84		
15MHz 16QAM	RB1#0	16.08	16.12	15.76	13.59	30
	RB1#38	16.29	16.23	15.99		
	RB1#74	16.17	16.19	15.98		
	RB36#0	14.77	14.64	14.79		
	RB36#39	14.9	14.69	14.9		
	RB75#0	14.85	14.66	14.78		
20MHz QPSK	RB1#0	16.57	16.51	16.5	14.21	30
	RB1#50	16.81	16.68	16.88		
	RB1#99	16.65	16.6	16.91		
	RB50#0	15.72	15.6	15.64		
	RB50#50	15.92	15.59	15.86		
	RB100#0	15.83	15.58	15.75		
20MHz 16QAM	RB1#0	16.13	15.78	15.7	13.7	30
	RB1#50	16.4	15.96	16.11		
	RB1#99	16.27	15.84	16.06		
	RB50#0	14.76	14.64	14.69		
	RB50#50	14.94	14.65	14.82		
	RB100#0	14.91	14.65	14.74		

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	6	6.06	5.74	13
	RB100#0	4.35	4.38	4.29	13
20MHz 16QAM	RB1#0	6.64	7.13	6.14	13
	RB100#0	5.94	5.94	5.88	13
Result:					Pass

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	1.096	1.284	1.102	1.302	1.108	1.278
1.4MHz 16QAM	1.102	1.302	1.096	1.278	1.096	1.290
3MHz QPSK	2.683	2.928	2.683	2.940	2.683	2.916
3MHz 16QAM	2.683	2.940	2.683	2.940	2.671	2.952
5MHz QPSK	4.491	4.920	4.511	4.960	4.511	4.920
5MHz 16QAM	4.511	4.940	4.511	4.900	4.511	4.940
10MHz QPSK	8.942	9.640	8.942	9.680	8.942	9.600
10MHz 16QAM	8.942	9.600	8.942	9.600	8.942	9.600
15MHz QPSK	13.473	14.580	13.473	14.640	13.533	14.640
15MHz 16QAM	13.473	14.520	13.473	14.580	13.533	14.580
20MHz QPSK	17.964	19.200	17.964	19.200	17.884	19.280
20MHz 16QAM	17.884	19.280	17.964	19.360	17.884	19.280

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

Spurious Emissions at Antenna Terminal

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

Out of band emission, Band Edge

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

Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.429	1710.00	1779.595	1780
	-20	3.91	1710.456	1710.00	1779.667	1780
	-10	3.91	1710.499	1710.00	1779.586	1780
	0	3.91	1710.402	1710.00	1779.671	1780
	10	3.91	1710.462	1710.00	1779.639	1780
	20	3.91	1710.400	1710.00	1779.680	1780
	30	3.91	1710.407	1710.00	1779.675	1780
	40	3.91	1710.490	1710.00	1779.666	1780
	50	3.91	1710.474	1710.00	1779.588	1780
Frequency Stability vs. Voltage	20	3.45	1710.439	1710.00	1779.665	1780
	20	4.5	1710.432	1710.00	1779.654	1780
					Result:	Pass

Frequency Stability						
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	3.91	1710.435	1710.00	1779.611	1780
	-20	3.91	1710.405	1710.00	1779.598	1780
	-10	3.91	1710.463	1710.00	1779.588	1780
	0	3.91	1710.423	1710.00	1779.624	1780
	10	3.91	1710.430	1710.00	1779.637	1780
	20	3.91	1710.400	1710.00	1779.680	1780
	30	3.91	1710.418	1710.00	1779.675	1780
	40	3.91	1710.445	1710.00	1779.619	1780
	50	3.91	1710.458	1710.00	1779.608	1780
Frequency Stability vs. Voltage	20	3.45	1710.480	1710.00	1779.641	1780
	20	4.5	1710.455	1710.00	1779.656	1780
					Result:	Pass

Test Plots(Note: The 7.0dB 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	1.4MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:48:37</p>	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:48:58</p>
Middle	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:49:19</p>	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:49:39</p>
Highest	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:49:58</p>	<p>ProjectNo.:CR231061510-RF Testers:Clairie Liu Date: 12.NOV.2023 14:50:15</p>

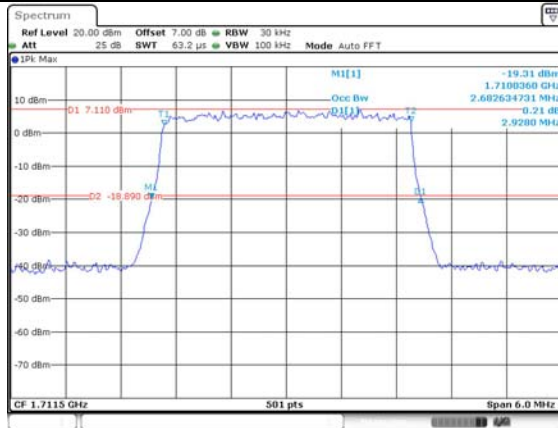
Occupied Bandwidth

Channel

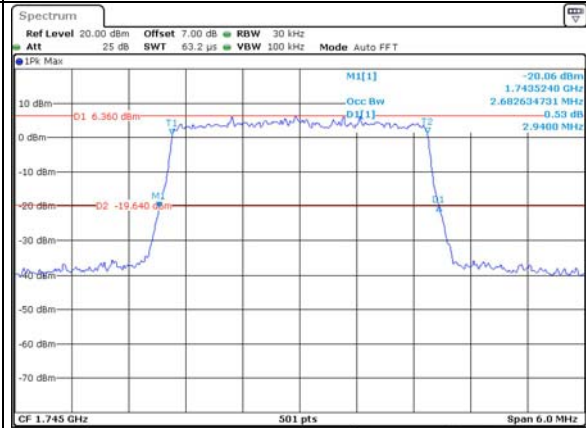
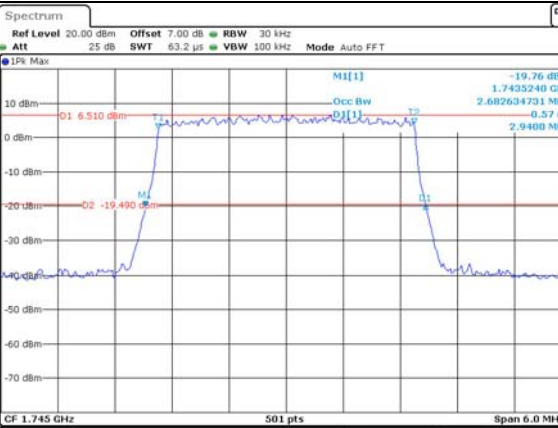
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

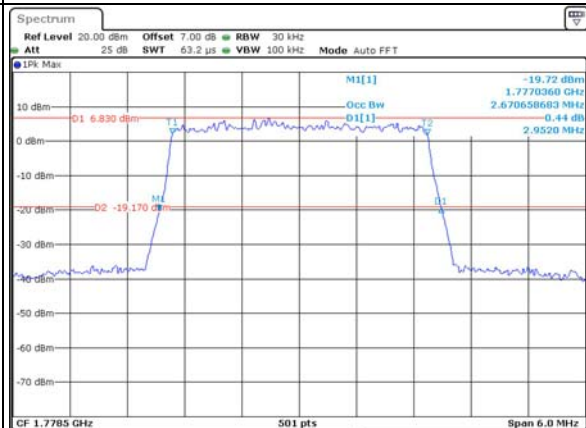
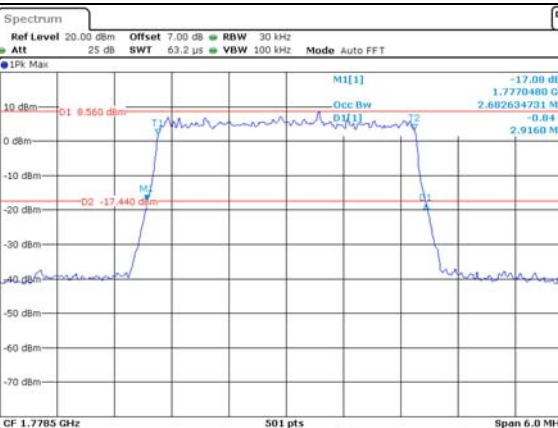
Lowest



Middle



Highest



Occupied Bandwidth

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

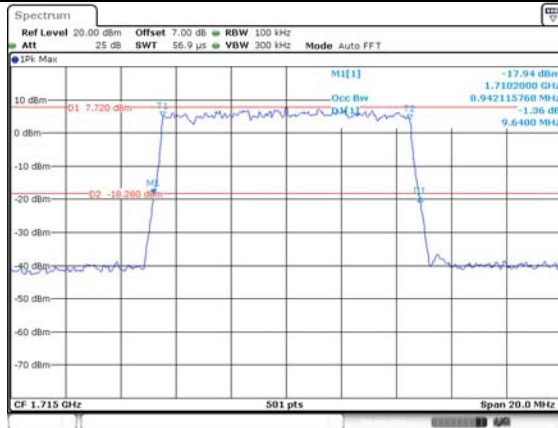
Occupied Bandwidth

Channel

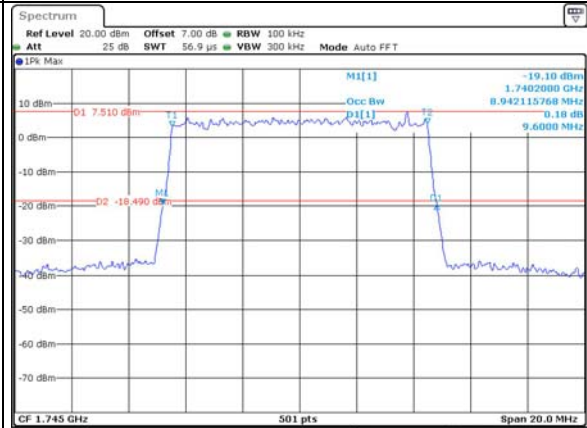
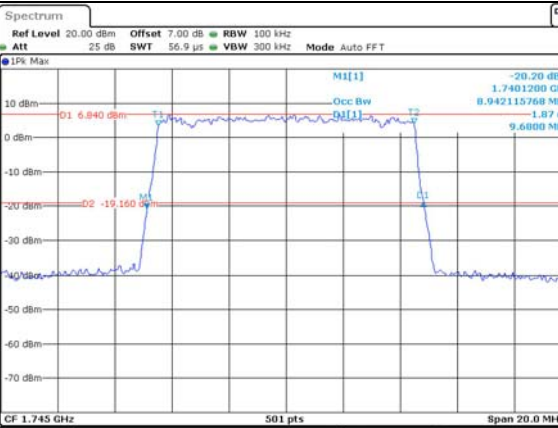
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

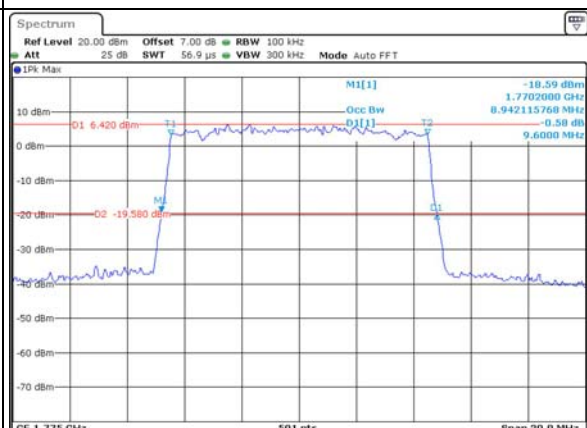
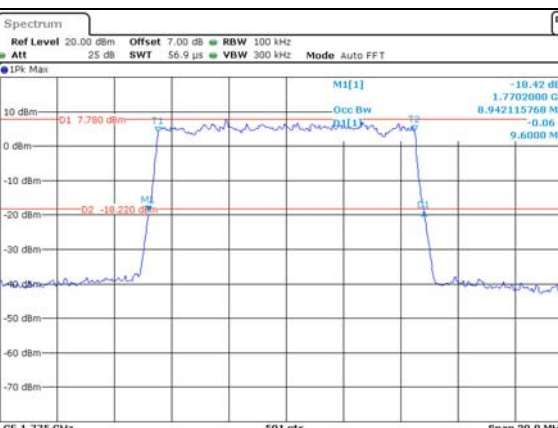
Lowest



Middle



Highest



Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:00:00</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:00:34</p>
Middle	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:01:06</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:01:34</p>
Highest	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:02:04</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:02:32</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:03:51</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:04:22</p>
Middle	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:04:58</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:05:26</p>
Highest	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:06:07</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 15:06:45</p>

Spurious Emissions at Antenna Terminal

Channel	1.4MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:22:03</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:22:25</p>
Middle	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:22:54</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:23:23</p>
Highest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:23:55</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:24:17</p>

Spurious Emissions at Antenna Terminal

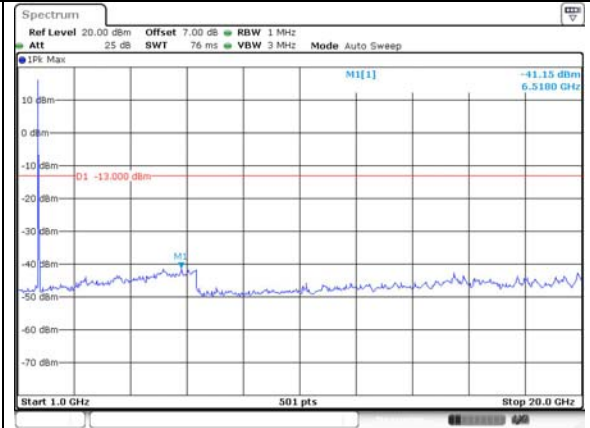
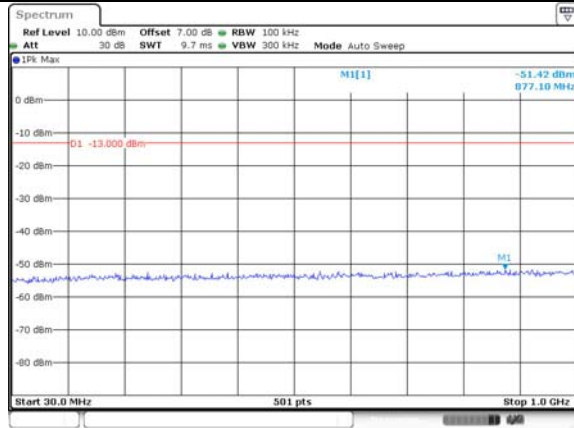
Channel	3MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:25:30</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:25:55</p>
Middle	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:26:27</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:26:59</p>
Highest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:27:22</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:27:47</p>

Spurious Emissions at Antenna Terminal

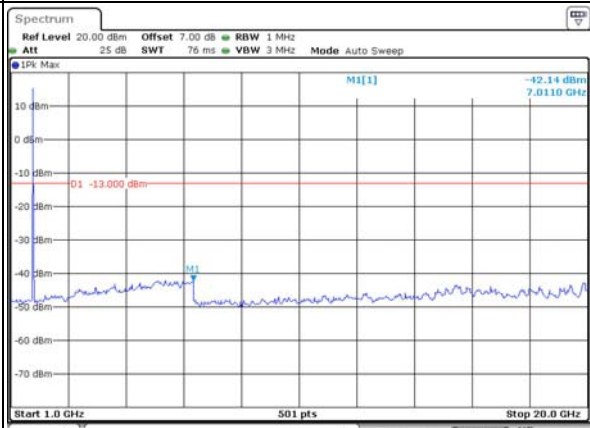
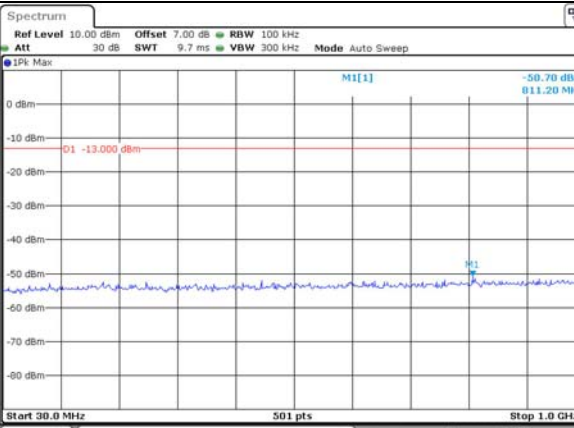
Channel

5MHz Bandwidth QPSK

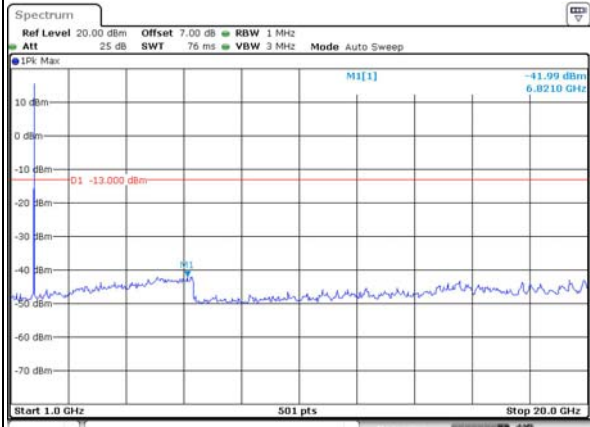
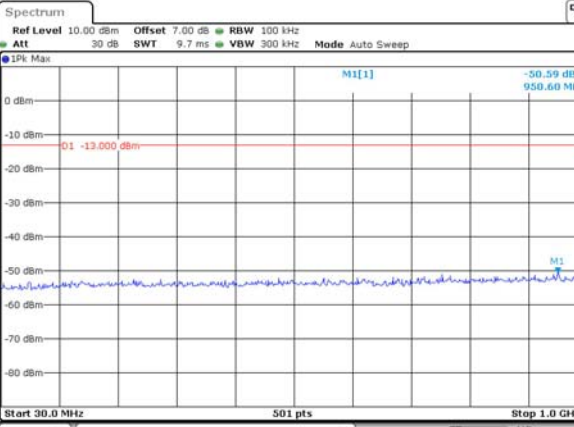
Lowest



Middle



Highest

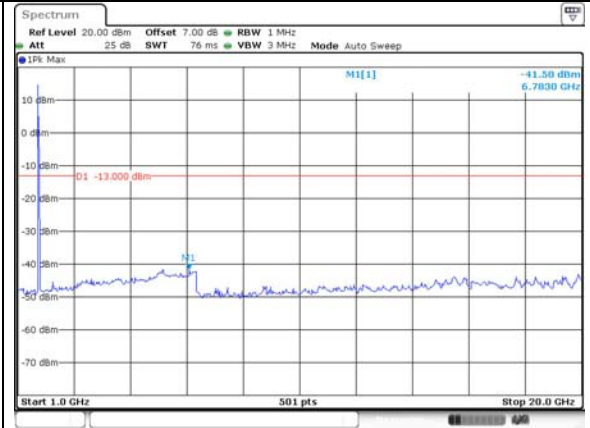
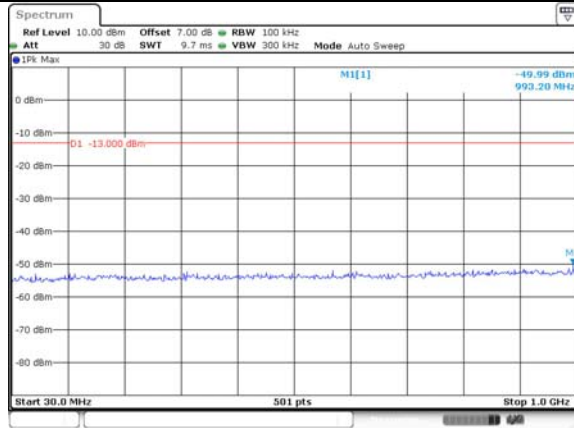


Spurious Emissions at Antenna Terminal

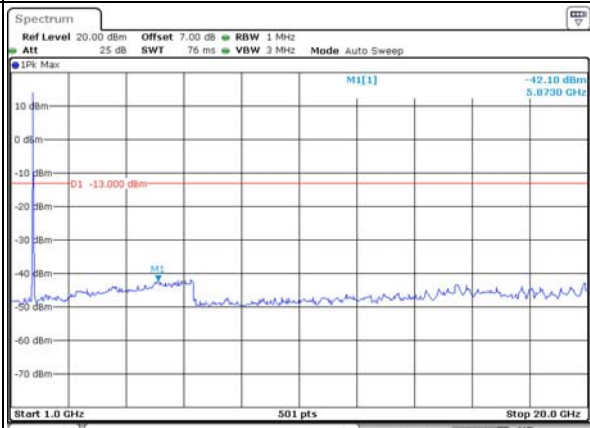
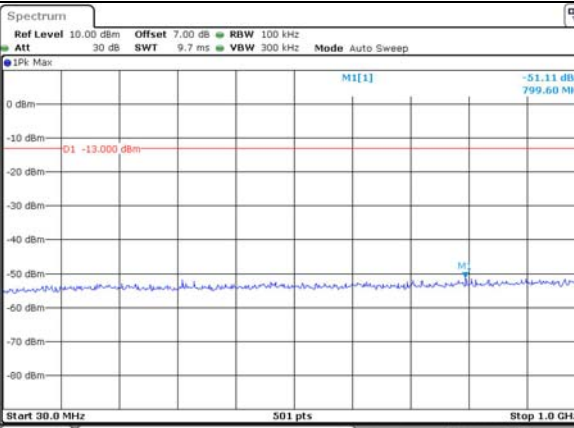
Channel

10MHz Bandwidth QPSK

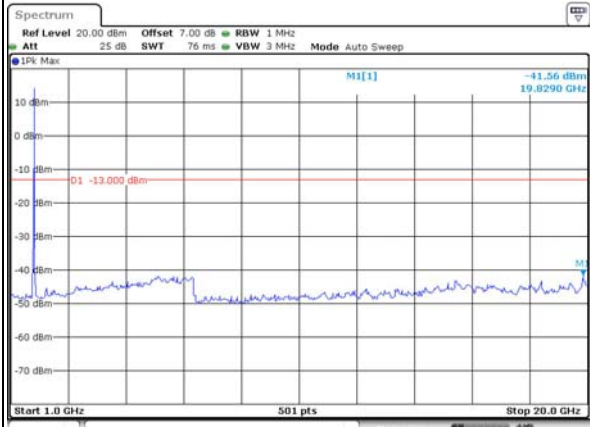
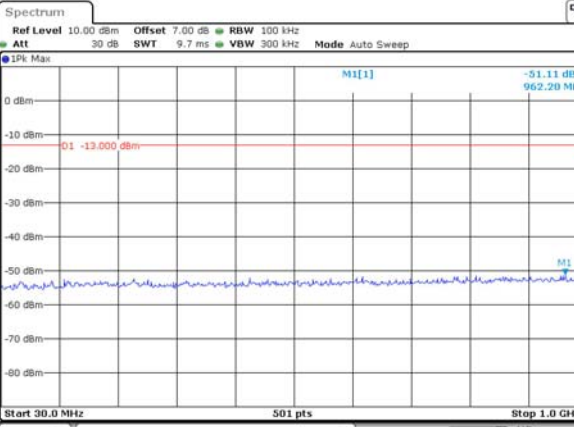
Lowest



Middle



Highest

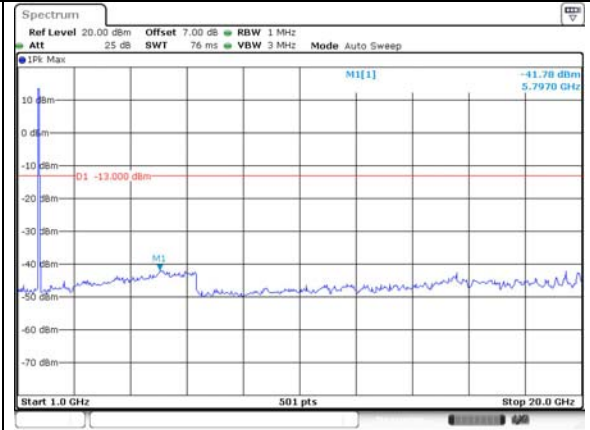
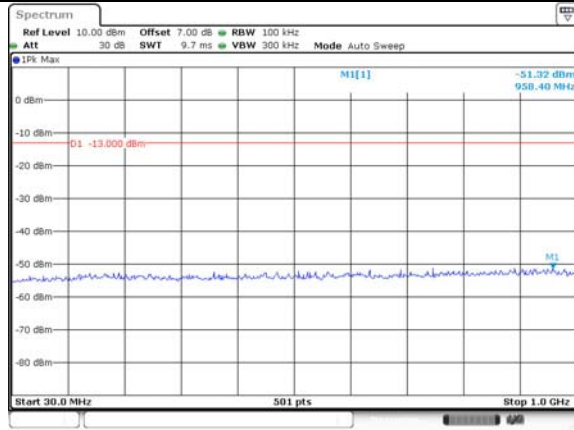


Spurious Emissions at Antenna Terminal

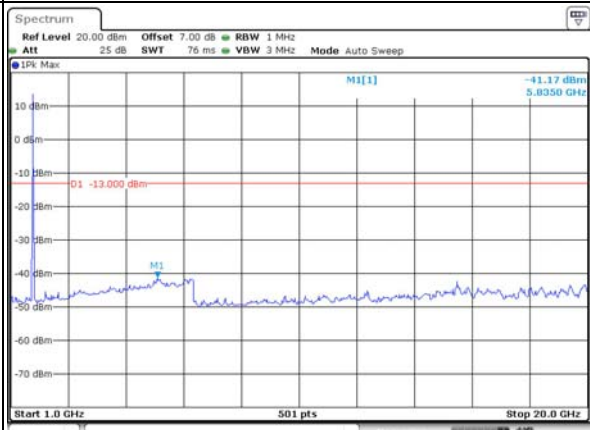
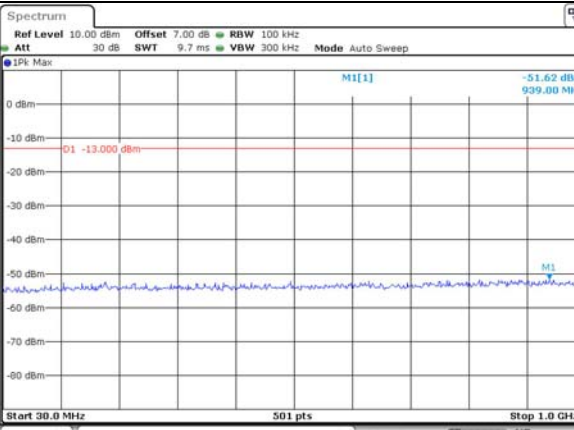
Channel

15MHz Bandwidth QPSK

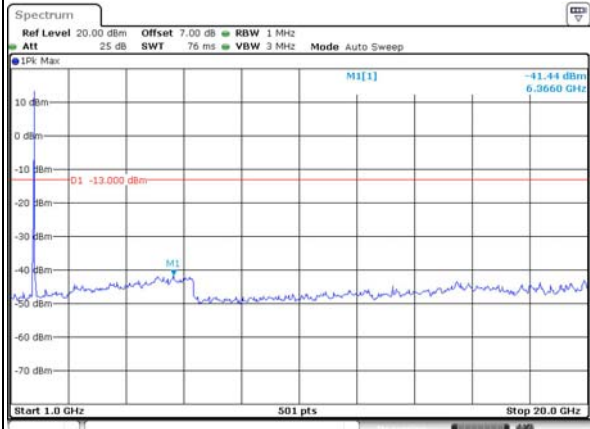
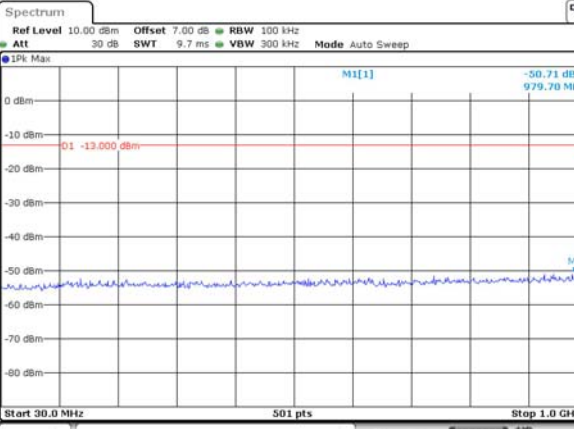
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:39:29</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:39:54</p>
Middle	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:40:23</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:40:49</p>
Highest	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:41:21</p>	<p>ProjectNo.:CR231061510-RF Tester: Claire Liu Date: 13.NOV.2023 10:41:46</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:03:58</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:04:12</p>
QPSK 3MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:05:05</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:05:20</p>
QPSK 5MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:06:10</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:06:25</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:07:24</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:07:40</p>
QPSK 15MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:09:07</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:09:27</p>
QPSK 20MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:10:22</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:10:43</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:04:04</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:04:18</p>
16QAM 3MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:05:12</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:05:26</p>
16QAM 5MHz	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:06:17</p>	<p>ProjectNo.:CR231061510-RF Tester:Clairu Liu Date: 12.NOV.2023 17:06:32</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:07:32</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:07:48</p>
16QAM 15MHz	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:09:16</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:09:37</p>
16QAM 20MHz	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:10:32</p>	<p>ProjectNo.:CR231061510-RF Tester:Clair Liu Date: 12.NOV.2023 17:10:53</p>

4.18 Radiated Spurious Emissions

Serial Number:	2CIM-5	Test Date:	2023/11/14~2023/11/24
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Vic Du ,Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.7~26.2	Relative Humidity: (%)	47~60	ATM Pressure: (kPa)	101.1~101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
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	2023/7/16	2024/7/15
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
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	2023/11/8	2024/11/7
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2023/7/16	2024/7/15
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	2023/9/15	2024/9/14
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
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16

*** 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:

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

Cellular Band (30MHz-10GHz)**GSM850:**

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:			824.2	MHz				
869.25	H	38.68	-30.87	0.00	0.58	-31.45	-13.00	18.45
623.07	V	49.84	-21.47	0.00	0.48	-21.95	-13.00	8.95
1648.400	H	43.98	-60.35	8.68	0.80	-52.47	-13.00	39.47
1648.400	V	37.25	-67.16	8.68	0.80	-59.28	-13.00	46.28
2472.600	H	50.57	-50.21	9.38	1.00	-41.83	-13.00	28.83
2472.600	V	42.91	-57.82	9.38	1.00	-49.44	-13.00	36.44
3296.800	H	34.97	-61.71	10.32	1.15	-52.54	-13.00	39.54
3296.800	V	34.77	-61.67	10.32	1.15	-52.50	-13.00	39.50
Frequency:			836.6	MHz				
636.13	H	40.44	-33.22	0.00	0.52	-33.74	-13.00	20.74
636.13	V	54.48	-16.60	0.00	0.52	-17.12	-13.00	4.12
1673.200	H	42.55	-61.76	8.71	0.85	-53.90	-13.00	40.90
1673.200	V	36.70	-67.71	8.71	0.85	-59.85	-13.00	46.85
2509.800	H	47.44	-53.17	9.42	1.01	-44.76	-13.00	31.76
2509.800	V	40.31	-60.31	9.42	1.01	-51.90	-13.00	38.90
3346.400	H	34.52	-62.65	10.34	1.16	-53.47	-13.00	40.47
3346.400	V	34.02	-63.01	10.34	1.16	-53.83	-13.00	40.83
Frequency:			848.8	MHz				
647.56	H	47.12	-26.48	0.00	0.52	-27.00	-13.00	14.00
647.67	V	51.36	-19.51	0.00	0.52	-20.03	-13.00	7.03
1697.600	H	41.63	-62.66	8.74	0.90	-54.82	-13.00	41.82
1697.600	V	39.79	-64.63	8.74	0.90	-56.79	-13.00	43.79
2546.400	H	47.71	-52.62	9.47	1.01	-44.16	-13.00	31.16
2546.400	V	39.57	-60.71	9.47	1.01	-52.25	-13.00	39.25
3395.200	H	38.10	-59.59	10.36	1.19	-50.42	-13.00	37.42
3395.200	V	36.49	-61.17	10.36	1.19	-52.00	-13.00	39.00

WCDMA Band 5:

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:			826.4	MHz				
604.50	H	20.11	-53.73	0.00	0.50	-54.23	-13.00	41.23
782.54	V	21.08	-47.04	0.00	0.55	-47.59	-13.00	34.59
1652.800	H	35.56	-68.77	8.68	0.81	-60.90	-13.00	47.90
1652.800	V	36.11	-68.30	8.68	0.81	-60.43	-13.00	47.43
2479.200	H	36.90	-63.86	9.39	1.01	-55.48	-13.00	42.48
2479.200	V	35.61	-65.12	9.39	1.01	-56.74	-13.00	43.74
3305.600	H	37.46	-59.27	10.32	1.15	-50.10	-13.00	37.10
3305.600	V	35.13	-61.37	10.32	1.15	-52.20	-13.00	39.20
Frequency:			836.4	MHz				
935.61	H	20.18	-47.72	0.00	0.66	-48.38	-13.00	35.38
612.36	V	21.14	-50.37	0.00	0.47	-50.84	-13.00	37.84
1672.800	H	36.59	-67.72	8.71	0.85	-59.86	-13.00	46.86
1672.800	V	36.96	-67.45	8.71	0.85	-59.59	-13.00	46.59
2509.200	H	46.42	-54.19	9.41	1.01	-45.79	-13.00	32.79
2509.200	V	45.56	-55.07	9.41	1.01	-46.67	-13.00	33.67
3345.600	H	40.54	-56.62	10.34	1.16	-47.44	-13.00	34.44
3345.600	V	37.07	-59.95	10.34	1.16	-50.77	-13.00	37.77
Frequency:			846.6	MHz				
727.04	H	20.42	-52.35	0.00	0.52	-52.87	-13.00	39.87
566.94	V	21.22	-50.46	0.00	0.46	-50.92	-13.00	37.92
1693.200	H	35.84	-68.46	8.73	0.89	-60.62	-13.00	47.62
1693.200	V	36.55	-67.87	8.73	0.89	-60.03	-13.00	47.03
2539.800	H	34.49	-65.89	9.46	1.01	-57.44	-13.00	44.44
2539.800	V	34.77	-65.57	9.46	1.01	-57.12	-13.00	44.12
3386.400	H	39.10	-58.49	10.35	1.18	-49.32	-13.00	36.32
3386.400	V	38.90	-58.64	10.35	1.18	-49.47	-13.00	36.47

PCS Band (30MHz-20GHz)**GSM1900:**

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)			
Frequency:			1850.2	MHz				
87.11	H	41.84	-70.25	0.00	0.17	-70.42	-13.00	57.42
85.00	V	43.83	-65.12	0.00	0.17	-65.29	-13.00	52.29
3700.400	H	45.00	-52.32	10.60	1.25	-42.97	-13.00	29.97
3700.400	V	41.62	-55.68	10.60	1.25	-46.33	-13.00	33.33
5550.600	H	40.85	-52.41	11.44	1.49	-42.46	-13.00	29.46
5550.600	V	43.22	-49.88	11.44	1.49	-39.93	-13.00	26.93
Frequency:			1880	MHz				
87.11	H	42.08	-70.01	0.00	0.17	-70.18	-13.00	57.18
86.81	V	43.69	-65.40	0.00	0.17	-65.57	-13.00	52.57
3760.000	H	44.34	-52.07	10.66	1.24	-42.65	-13.00	29.65
3760.000	V	38.50	-57.79	10.66	1.24	-48.37	-13.00	35.37
5640.000	H	43.97	-49.48	11.33	1.54	-39.69	-13.00	26.69
5640.000	V	45.16	-48.17	11.33	1.54	-38.38	-13.00	25.38
Frequency:			1909.8	MHz				
86.97	H	41.84	-70.21	0.00	0.17	-70.38	-13.00	57.38
85.00	V	43.98	-64.98	0.00	0.17	-65.15	-13.00	52.15
3819.600	H	42.32	-53.54	10.72	1.29	-44.11	-13.00	31.11
3819.600	V	38.49	-57.23	10.72	1.29	-47.80	-13.00	34.80
5729.400	H	43.94	-49.54	11.22	1.59	-39.91	-13.00	26.91
5729.400	V	47.30	-46.06	11.22	1.59	-36.43	-13.00	23.43

WCDMA Band 2:

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:			1852.4	MHz				
208.41	H	39.84	-72.88	0.00	0.26	-73.14	-13.00	60.14
89.59	V	45.37	-63.93	0.00	0.18	-64.11	-13.00	51.11
3704.800	H	36.42	-60.84	10.60	1.25	-51.49	-13.00	38.49
3704.800	V	34.86	-62.37	10.60	1.25	-53.02	-13.00	40.02
5557.200	H	34.18	-59.10	11.43	1.49	-49.16	-13.00	36.16
5557.200	V	34.74	-58.39	11.43	1.49	-48.45	-13.00	35.45
Frequency:			1880	MHz				
90.54	H	40.08	-72.91	0.00	0.18	-73.09	-13.00	60.09
89.28	V	45.33	-63.95	0.00	0.18	-64.13	-13.00	51.13
3760.000	H	34.98	-61.43	10.66	1.24	-52.01	-13.00	39.01
3760.000	V	34.18	-62.11	10.66	1.24	-52.69	-13.00	39.69
5640.000	H	35.52	-57.93	11.33	1.54	-48.14	-13.00	35.14
5640.000	V	37.87	-55.46	11.33	1.54	-45.67	-13.00	32.67
Frequency:			1907.6	MHz				
181.79	H	39.99	-72.54	0.00	0.25	-72.79	-13.00	59.79
88.65	V	44.38	-64.85	0.00	0.18	-65.03	-13.00	52.03
3815.200	H	35.55	-60.30	10.72	1.29	-50.87	-13.00	37.87
3815.200	V	35.09	-60.60	10.72	1.29	-51.17	-13.00	38.17
5722.800	H	35.75	-57.74	11.23	1.58	-48.09	-13.00	35.09
5722.800	V	36.55	-56.80	11.23	1.58	-47.15	-13.00	34.15

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				
182.47	H	39.58	-72.96	0.00	0.25	-73.21	-13.00	60.21
89.26	V	45.21	-64.06	0.00	0.18	-64.24	-13.00	51.24
3424.800	H	34.76	-63.01	10.37	1.17	-53.81	-13.00	40.81
3424.800	V	36.06	-61.68	10.37	1.17	-52.48	-13.00	39.48
5137.200	H	34.95	-58.67	11.28	1.46	-48.85	-13.00	35.85
5137.200	V	35.98	-57.52	11.28	1.46	-47.70	-13.00	34.70
Frequency:			1732.6	MHz				
207.15	H	39.82	-72.93	0.00	0.26	-73.19	-13.00	60.19
88.67	V	44.98	-64.25	0.00	0.18	-64.43	-13.00	51.43
3465.200	H	34.97	-62.84	10.39	1.15	-53.60	-13.00	40.60
3465.200	V	36.59	-61.18	10.39	1.15	-51.94	-13.00	38.94
5197.800	H	34.20	-59.93	11.32	1.44	-50.05	-13.00	37.05
5197.800	V	35.58	-58.40	11.32	1.44	-48.52	-13.00	35.52
Frequency:			1752.6	MHz				
183.54	H	40.28	-72.28	0.00	0.25	-72.53	-13.00	59.53
86.19	V	44.83	-64.21	0.00	0.17	-64.38	-13.00	51.38
3505.200	H	51.73	-46.10	10.41	1.18	-36.87	-13.00	23.87
3505.200	V	34.23	-63.54	10.41	1.18	-54.31	-13.00	41.31
5257.800	H	53.50	-40.23	11.35	1.47	-30.35	-13.00	17.35
5257.800	V	34.68	-58.83	11.35	1.47	-48.95	-13.00	35.95

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)			
1.4MHz QPSK, Frequency:			1850.7	MHz				
183.84	H	40.12	-72.45	0.00	0.25	-72.70	-13.00	59.70
86.50	V	44.43	-64.64	0.00	0.17	-64.81	-13.00	51.81
3701.400	H	39.27	-58.04	10.60	1.25	-48.69	-13.00	35.69
3701.400	V	37.68	-59.61	10.60	1.25	-50.26	-13.00	37.26
5552.100	H	46.78	-46.49	11.44	1.49	-36.54	-13.00	23.54
5552.100	V	45.63	-47.47	11.44	1.49	-37.52	-13.00	24.52
1.4MHz QPSK, Frequency:			1880	MHz				
183.20	H	40.21	-72.34	0.00	0.25	-72.59	-13.00	59.59
86.81	V	44.52	-64.57	0.00	0.17	-64.74	-13.00	51.74
3760.000	H	37.41	-59.00	10.66	1.24	-49.58	-13.00	36.58
3760.000	V	34.31	-61.98	10.66	1.24	-52.56	-13.00	39.56
5640.000	H	42.86	-50.59	11.33	1.54	-40.80	-13.00	27.80
5640.000	V	46.30	-47.03	11.33	1.54	-37.24	-13.00	24.24
1.4MHz QPSK, Frequency:			1909.3	MHz				
215.98	H	40.06	-72.51	0.00	0.27	-72.78	-13.00	59.78
87.42	V	44.75	-64.39	0.00	0.17	-64.56	-13.00	51.56
3818.600	H	36.93	-58.93	10.72	1.29	-49.50	-13.00	36.50
3818.600	V	34.22	-61.49	10.72	1.29	-52.06	-13.00	39.06
5727.900	H	40.80	-52.68	11.23	1.59	-43.04	-13.00	30.04
5727.900	V	41.61	-51.75	11.23	1.59	-42.11	-13.00	29.11

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					
209.28	H	40.63	-72.08	0.00	0.26	-72.34	-13.00	59.34
88.65	V	43.55	-65.68	0.00	0.18	-65.86	-13.00	52.86
3421.400	H	35.49	-62.27	10.37	1.17	-53.07	-13.00	40.07
3421.400	V	36.67	-61.06	10.37	1.17	-51.86	-13.00	38.86
5132.100	H	41.10	-52.47	11.28	1.47	-42.66	-13.00	29.66
5132.100	V	45.38	-48.08	11.28	1.47	-38.27	-13.00	25.27
1.4MHz QPSK, Frequency:			1732.5 MHz					
182.56	H	40.34	-72.20	0.00	0.25	-72.45	-13.00	59.45
86.50	V	44.08	-64.99	0.00	0.17	-65.16	-13.00	52.16
3465.000	H	37.18	-60.63	10.39	1.15	-51.39	-13.00	38.39
3465.000	V	35.90	-61.87	10.39	1.15	-52.63	-13.00	39.63
5197.500	H	43.28	-50.85	11.32	1.44	-40.97	-13.00	27.97
5197.500	V	42.93	-51.05	11.32	1.44	-41.17	-13.00	28.17
1.4MHz QPSK, Frequency:			1754.3 MHz					
184.49	H	40.15	-72.43	0.00	0.25	-72.68	-13.00	59.68
85.30	V	44.21	-64.77	0.00	0.17	-64.94	-13.00	51.94
3508.600	H	37.33	-60.49	10.41	1.19	-51.27	-13.00	38.27
3508.600	V	36.53	-61.23	10.41	1.19	-52.01	-13.00	39.01
5262.900	H	46.18	-47.52	11.36	1.47	-37.63	-13.00	24.63
5262.900	V	40.37	-53.10	11.36	1.47	-43.21	-13.00	30.21

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)			
1.4MHz QPSK, Frequency:			824.7 MHz					
486.19	H	20.18	-55.93	0.00	0.43	-56.36	-13.00	43.36
650.90	V	21.29	-49.52	0.00	0.52	-50.04	-13.00	37.04
1649.400	H	36.45	-67.88	8.68	0.80	-60.00	-13.00	47.00
1649.400	V	36.76	-67.65	8.68	0.80	-59.77	-13.00	46.77
2474.100	H	47.02	-53.76	9.38	1.00	-45.38	-13.00	32.38
2474.100	V	37.40	-63.33	9.38	1.00	-54.95	-13.00	41.95
3298.800	H	41.05	-55.63	10.32	1.15	-46.46	-13.00	33.46
3298.800	V	37.36	-59.08	10.32	1.15	-49.91	-13.00	36.91
1.4MHz QPSK, Frequency:			836.5 MHz					
893.25	H	20.25	-48.69	0.00	0.65	-49.34	-13.00	36.34
550.16	V	21.98	-49.68	0.00	0.47	-50.15	-13.00	37.15
1673.000	H	37.15	-67.16	8.71	0.85	-59.30	-13.00	46.30
1673.000	V	37.65	-66.76	8.71	0.85	-58.90	-13.00	45.90
2509.500	H	36.88	-63.73	9.42	1.01	-55.32	-13.00	42.32
2509.500	V	34.40	-66.22	9.42	1.01	-57.81	-13.00	44.81
3346.000	H	41.32	-55.84	10.34	1.16	-46.66	-13.00	33.66
3346.000	V	41.63	-55.39	10.34	1.16	-46.21	-13.00	33.21
1.4MHz QPSK, Frequency:			848.3 MHz					
756.72	H	20.47	-51.70	0.00	0.52	-52.22	-13.00	39.22
430.52	V	21.33	-53.01	0.00	0.40	-53.41	-13.00	40.41
1696.600	H	37.30	-66.99	8.74	0.89	-59.14	-13.00	46.14
1696.600	V	37.93	-66.49	8.74	0.89	-58.64	-13.00	45.64
2544.900	H	35.69	-64.65	9.47	1.01	-56.19	-13.00	43.19
2544.900	V	37.71	-62.59	9.47	1.01	-54.13	-13.00	41.13
3393.200	H	47.81	-49.86	10.36	1.19	-40.69	-13.00	27.69
3393.200	V	48.25	-49.38	10.36	1.19	-40.21	-13.00	27.21

LTE Band 7(30MHz-26.5GHz):

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: 2502.5 MHz								
217.54	H	40.95	-71.59	0.00	0.27	-71.86	-25.00	46.86
88.34	V	44.26	-64.95	0.00	0.17	-65.12	-25.00	40.12
5005.000	H	35.60	-57.36	11.20	1.47	-47.63	-25.00	22.63
5005.000	V	36.19	-56.63	11.20	1.47	-46.90	-25.00	21.90
7507.500	H	46.10	-43.69	10.90	1.95	-34.74	-25.00	9.74
7507.500	V	46.28	-44.01	10.90	1.95	-35.06	-25.00	10.06
5MHz QPSK, Frequency: 2535 MHz								
216.78	H	41.06	-71.50	0.00	0.27	-71.77	-25.00	46.77
85.60	V	44.64	-64.36	0.00	0.17	-64.53	-25.00	39.53
5070.000	H	38.02	-55.17	11.24	1.47	-45.40	-25.00	20.40
5070.000	V	35.95	-57.14	11.24	1.47	-47.37	-25.00	22.37
7605.000	H	45.31	-44.16	10.88	2.01	-35.29	-25.00	10.29
7605.000	V	46.22	-43.97	10.88	2.01	-35.10	-25.00	10.10
5MHz QPSK, Frequency: 2567.5 MHz								
183.87	H	41.69	-70.88	0.00	0.25	-71.13	-25.00	46.13
85.00	V	43.94	-65.02	0.00	0.17	-65.19	-25.00	40.19
5135.000	H	41.39	-52.21	11.28	1.47	-42.40	-25.00	17.40
5135.000	V	37.73	-55.76	11.28	1.47	-45.95	-25.00	20.95
7702.500	H	45.89	-43.63	10.86	1.97	-34.74	-25.00	9.74
7702.500	V	47.27	-42.91	10.86	1.97	-34.02	-25.00	9.02

LTE Band 12(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)			
1.4MHz QPSK, Frequency:			699.7			MHz		
870.54	H	20.48	-49.04	0.00	0.58	-49.62	-13.00	36.62
882.83	V	21.95	-44.46	0.00	0.60	-45.06	-13.00	32.06
1399.400	H	39.02	-64.68	8.22	0.71	-57.17	-13.00	44.17
1399.400	V	39.21	-64.54	8.22	0.71	-57.03	-13.00	44.03
2099.100	H	45.69	-56.19	9.16	0.91	-47.94	-13.00	34.94
2099.100	V	39.82	-62.01	9.16	0.91	-53.76	-13.00	40.76
2798.800	H	35.49	-64.44	9.88	1.04	-55.60	-13.00	42.60
2798.800	V	34.74	-65.06	9.88	1.04	-56.22	-13.00	43.22
1.4MHz QPSK, Frequency:			707.5			MHz		
604.74	H	20.17	-53.66	0.00	0.50	-54.16	-13.00	41.16
977.22	V	22.57	-42.05	0.00	0.63	-42.68	-13.00	29.68
1415.000	H	38.05	-65.62	8.26	0.72	-58.08	-13.00	45.08
1415.000	V	37.88	-65.84	8.26	0.72	-58.30	-13.00	45.30
2122.500	H	41.94	-60.05	9.17	0.92	-51.80	-13.00	38.80
2122.500	V	38.50	-63.47	9.17	0.92	-55.22	-13.00	42.22
2830.000	H	35.29	-64.51	9.93	1.06	-55.64	-13.00	42.64
2830.000	V	35.28	-64.45	9.93	1.06	-55.58	-13.00	42.58
1.4MHz QPSK, Frequency:			715.3			MHz		
653.19	H	20.19	-53.38	0.00	0.52	-53.90	-13.00	40.90
538.72	V	21.26	-50.38	0.00	0.46	-50.84	-13.00	37.84
1430.600	H	38.77	-64.86	8.31	0.73	-57.28	-13.00	44.28
1430.600	V	37.51	-66.18	8.31	0.73	-58.60	-13.00	45.60
2145.900	H	38.73	-63.37	9.19	0.93	-55.11	-13.00	42.11
2145.900	V	37.17	-64.94	9.19	0.93	-56.68	-13.00	43.68
2861.200	H	36.17	-63.48	9.98	1.07	-54.57	-13.00	41.57
2861.200	V	34.84	-64.83	9.98	1.07	-55.92	-13.00	42.92

LTE Band 13(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)			
5MHz QPSK, Frequency:			779.5	MHz				
455.34	H	20.44	-56.30	0.00	0.42	-56.72	-13.00	43.72
420.09	V	21.67	-53.08	0.00	0.39	-53.47	-13.00	40.47
1559.000	H	37.18	-66.81	8.57	0.80	-59.04	-40.00	19.04
1559.000	V	36.90	-67.15	8.57	0.80	-59.38	-40.00	19.38
2338.500	H	42.00	-59.59	9.30	0.97	-51.26	-13.00	38.26
2338.500	V	37.80	-63.56	9.30	0.97	-55.23	-13.00	42.23
3118.000	H	34.14	-63.35	10.25	1.13	-54.23	-13.00	41.23
3118.000	V	34.20	-63.15	10.25	1.13	-54.03	-13.00	41.03
5MHz QPSK, Frequency:			784.5	MHz				
552.09	H	20.25	-54.55	0.00	0.48	-55.03	-13.00	42.03
805.97	V	22.04	-45.60	0.00	0.56	-46.16	-13.00	33.16
1569.000	H	36.01	-68.07	8.58	0.81	-60.30	-40.00	20.30
1569.000	V	36.46	-67.67	8.58	0.81	-59.90	-40.00	19.90
2353.500	H	40.21	-61.24	9.31	0.97	-52.90	-13.00	39.90
2353.500	V	37.06	-64.16	9.31	0.97	-55.82	-13.00	42.82
3138.000	H	34.14	-63.26	10.26	1.14	-54.14	-13.00	41.14
3138.000	V	34.66	-62.57	10.26	1.14	-53.45	-13.00	40.45

LTE Band 17(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)			
5MHz QPSK, Frequency:			706.5	MHz				
524.71	H	21.10	-54.24	0.00	0.42	-54.66	-13.00	41.66
84.88	V	20.82	-56.63	0.00	0.17	-56.80	-13.00	43.80
1413.000	H	36.25	-67.42	8.26	0.72	-59.88	-13.00	46.88
1413.000	V	37.76	-65.96	8.26	0.72	-58.42	-13.00	45.42
2119.500	H	39.44	-62.53	9.17	0.92	-54.28	-13.00	41.28
2119.500	V	37.98	-63.97	9.17	0.92	-55.72	-13.00	42.72
2826.000	H	34.79	-65.02	9.92	1.06	-56.16	-13.00	43.16
2826.000	V	36.06	-63.68	9.92	1.06	-54.82	-13.00	41.82
5MHz QPSK, Frequency:			710	MHz				
484.09	H	20.23	-55.92	0.00	0.43	-56.35	-13.00	43.35
878.44	V	20.73	-45.75	0.00	0.59	-46.34	-13.00	33.34
1420.000	H	36.41	-67.25	8.28	0.73	-59.70	-13.00	46.70
1420.000	V	37.68	-66.03	8.28	0.73	-58.48	-13.00	45.48
2130.000	H	36.89	-65.13	9.18	0.92	-56.87	-13.00	43.87
2130.000	V	36.83	-65.18	9.18	0.92	-56.92	-13.00	43.92
2840.000	H	35.99	-63.76	9.94	1.06	-54.88	-13.00	41.88
2840.000	V	34.48	-65.23	9.94	1.06	-56.35	-13.00	43.35
5MHz QPSK, Frequency:			713.5	MHz				
494.38	H	20.94	-55.00	0.00	0.45	-55.45	-13.00	42.45
376.18	V	20.19	-55.84	0.00	0.37	-56.21	-13.00	43.21
1427.000	H	37.81	-65.83	8.30	0.73	-58.26	-13.00	45.26
1427.000	V	37.20	-66.49	8.30	0.73	-58.92	-13.00	45.92
2140.500	H	37.56	-64.51	9.18	0.93	-56.26	-13.00	43.26
2140.500	V	36.51	-65.57	9.18	0.93	-57.32	-13.00	44.32
2854.000	H	34.08	-65.61	9.97	1.07	-56.71	-13.00	43.71
2854.000	V	34.92	-64.76	9.97	1.07	-55.86	-13.00	42.86

LTE Band 26(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)			
1.4MHz QPSK, Frequency:			814.7	MHz				
646.36	H	20.18	-53.43	0.00	0.52	-53.95	-13.00	40.95
590.09	V	21.41	-50.31	0.00	0.48	-50.79	-13.00	37.79
1629.400	H	36.93	-67.42	8.66	0.81	-59.57	-13.00	46.57
1629.400	V	36.24	-68.17	8.66	0.81	-60.32	-13.00	47.32
2444.100	H	45.51	-55.38	9.37	1.00	-47.01	-13.00	34.01
2444.100	V	42.62	-58.13	9.37	1.00	-49.76	-13.00	36.76
3258.800	H	40.75	-56.11	10.30	1.17	-46.98	-13.00	33.98
3258.800	V	37.84	-58.77	10.30	1.17	-49.64	-13.00	36.64
1.4MHz QPSK, Frequency:			831.5	MHz				
946.99	H	20.16	-47.46	0.00	0.59	-48.05	-13.00	35.05
554.03	V	21.66	-50.00	0.00	0.49	-50.49	-13.00	37.49
1663.000	H	36.71	-67.61	8.70	0.83	-59.74	-13.00	46.74
1663.000	V	36.57	-67.84	8.70	0.83	-59.97	-13.00	46.97
2494.500	H	40.46	-60.24	9.40	1.01	-51.85	-13.00	38.85
2494.500	V	36.13	-64.58	9.40	1.01	-56.19	-13.00	43.19
3326.000	H	42.30	-54.65	10.33	1.16	-45.48	-13.00	32.48
3326.000	V	40.20	-56.57	10.33	1.16	-47.40	-13.00	34.40
1.4MHz QPSK, Frequency:			848.3	MHz				
907.92	H	20.81	-47.77	0.00	0.54	-48.31	-13.00	35.31
376.18	V	21.47	-54.56	0.00	0.37	-54.93	-13.00	41.93
1696.600	H	38.43	-65.86	8.74	0.89	-58.01	-13.00	45.01
1696.600	V	35.64	-68.78	8.74	0.89	-60.93	-13.00	47.93
2544.900	H	36.49	-63.85	9.47	1.01	-55.39	-13.00	42.39
2544.900	V	35.79	-64.51	9.47	1.01	-56.05	-13.00	43.05
3393.200	H	47.52	-50.15	10.36	1.19	-40.98	-13.00	27.98
3393.200	V	45.61	-52.02	10.36	1.19	-42.85	-13.00	29.85

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								
215.28	H	40.69	-71.90	0.00	0.27	-72.17	-25.00	47.17
88.49	V	44.82	-64.40	0.00	0.17	-64.57	-25.00	39.57
5145.000	H	37.23	-56.45	11.29	1.44	-46.60	-25.00	21.60
5145.000	V	34.80	-58.77	11.29	1.44	-48.92	-25.00	23.92
7717.500	H	39.27	-50.24	10.86	1.99	-41.37	-25.00	16.37
7717.500	V	41.48	-48.65	10.86	1.99	-39.78	-25.00	14.78
5MHz QPSK, Frequency: 2595 MHz								
183.54	H	40.51	-72.05	0.00	0.25	-72.30	-25.00	47.30
87.29	V	45.06	-64.07	0.00	0.17	-64.24	-25.00	39.24
5190.000	H	42.02	-52.05	11.31	1.44	-42.18	-25.00	17.18
5190.000	V	37.05	-56.87	11.31	1.44	-47.00	-25.00	22.00
7785.000	H	41.98	-47.51	10.84	1.99	-38.66	-25.00	13.66
7785.000	V	41.95	-47.97	10.84	1.99	-39.12	-25.00	14.12
5MHz QPSK, Frequency: 2617.5 MHz								
214.56	H	41.07	-71.53	0.00	0.27	-71.80	-25.00	46.80
88.43	V	45.23	-63.98	0.00	0.17	-64.15	-25.00	39.15
5235.000	H	42.49	-51.41	11.34	1.46	-41.53	-25.00	16.53
5235.000	V	23.26	-70.45	11.34	1.46	-60.57	-25.00	35.57
7852.500	H	44.81	-44.38	10.83	2.03	-35.58	-25.00	10.58
7852.500	V	34.30	-55.28	10.83	2.03	-46.48	-25.00	21.48

LTE Band 40 Lower(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:			2307.5 MHz					
210.28	H	40.55	-72.14	0.00	0.26	-72.40	-40.00	32.40
88.79	V	44.39	-64.85	0.00	0.18	-65.03	-40.00	25.03
4615.000	H	35.85	-59.51	10.74	1.41	-50.18	-40.00	10.18
4615.000	V	36.04	-59.18	10.74	1.41	-49.85	-40.00	9.85
6922.500	H	38.48	-52.54	11.22	1.88	-43.20	-40.00	3.20
6922.500	V	36.83	-54.06	11.22	1.88	-44.72	-40.00	4.72
5MHz QPSK, Frequency:			2312.5 MHz					
215.73	H	40.12	-72.46	0.00	0.27	-72.73	-40.00	32.73
87.52	V	45.08	-64.06	0.00	0.17	-64.23	-40.00	24.23
4625.000	H	35.13	-60.16	10.75	1.41	-50.82	-40.00	10.82
4625.000	V	35.83	-59.34	10.75	1.41	-50.00	-40.00	10.00
6937.500	H	36.97	-54.01	11.21	1.90	-44.70	-40.00	4.70
6937.500	V	36.75	-54.09	11.21	1.90	-44.78	-40.00	4.78

LTE Band 40 Upper(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:			2352.5 MHz					
85.16	H	40.18	-71.28	0.00	0.17	-71.45	-40.00	31.45
182.97	V	45.63	-64.08	0.00	0.25	-64.33	-40.00	24.33
4705.000	H	35.73	-59.05	10.85	1.41	-49.61	-40.00	9.61
4705.000	V	34.90	-59.90	10.85	1.41	-50.46	-40.00	10.46
7057.500	H	37.63	-52.38	11.17	1.92	-43.13	-40.00	3.13
7057.500	V	36.05	-53.85	11.17	1.92	-44.60	-40.00	4.60
5MHz QPSK, Frequency:			2357.5 MHz					
215.64	H	40.24	-72.34	0.00	0.27	-72.61	-40.00	32.61
88.25	V	45.13	-64.07	0.00	0.17	-64.24	-40.00	24.24
4715.000	H	34.44	-60.27	10.86	1.41	-50.82	-40.00	10.82
4715.000	V	36.77	-57.94	10.86	1.41	-48.49	-40.00	8.49
7072.500	H	36.65	-53.15	11.16	1.91	-43.90	-40.00	3.90
7072.500	V	36.63	-53.08	11.16	1.91	-43.83	-40.00	3.83

LTE Band 41(30MHz-26.55GHz):

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: 2537.5 MHz								
215.12	H	40.69	-71.90	0.00	0.27	-72.17	-25.00	47.17
183.22	V	45.37	-64.33	0.00	0.25	-64.58	-25.00	39.58
5075.000	H	36.47	-56.74	11.25	1.48	-46.97	-25.00	21.97
5075.000	V	34.66	-58.45	11.25	1.48	-48.68	-25.00	23.68
7612.500	H	35.26	-54.22	10.88	2.02	-45.36	-25.00	20.36
7612.500	V	35.35	-54.84	10.88	2.02	-45.98	-25.00	20.98
5MHz QPSK, Frequency: 2595 MHz								
215.86	H	40.14	-72.44	0.00	0.27	-72.71	-25.00	47.71
182.96	V	45.21	-64.50	0.00	0.25	-64.75	-25.00	39.75
5190.000	H	36.01	-58.06	11.31	1.44	-48.19	-25.00	23.19
5190.000	V	35.18	-58.74	11.31	1.44	-48.87	-25.00	23.87
7785.000	H	37.39	-52.10	10.84	1.99	-43.25	-25.00	18.25
7785.000	V	38.72	-51.20	10.84	1.99	-42.35	-25.00	17.35
5MHz QPSK, Frequency: 2652.5 MHz								
214.94	H	40.56	-72.03	0.00	0.27	-72.30	-25.00	47.30
88.74	V	45.06	-64.18	0.00	0.18	-64.36	-25.00	39.36
5305.000	H	35.95	-57.49	11.38	1.46	-47.57	-25.00	22.57
5305.000	V	35.15	-58.03	11.38	1.46	-48.11	-25.00	23.11
7957.500	H	36.48	-51.94	10.81	2.09	-43.22	-25.00	18.22
7957.500	V	38.52	-50.35	10.81	2.09	-41.63	-25.00	16.63

LTE Band 66(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)			
5MHz QPSK, Frequency:			1710.7		MHz			
89.34	H	40.07	-72.75	0.00	0.18	-72.93	-13.00	59.93
89.28	V	43.55	-65.73	0.00	0.18	-65.91	-13.00	52.91
3421.400	H	36.60	-61.16	10.37	1.17	-51.96	-13.00	38.96
3421.400	V	36.48	-61.25	10.37	1.17	-52.05	-13.00	39.05
5132.100	H	38.49	-55.08	11.28	1.47	-45.27	-13.00	32.27
5132.100	V	39.80	-53.66	11.28	1.47	-43.85	-13.00	30.85
1.4MHz QPSK, Frequency:			1745		MHz			
183.20	H	40.22	-72.33	0.00	0.25	-72.58	-13.00	59.58
88.34	V	43.95	-65.26	0.00	0.17	-65.43	-13.00	52.43
3490.000	H	36.82	-61.02	10.40	1.17	-51.79	-13.00	38.79
3490.000	V	36.35	-61.43	10.40	1.17	-52.20	-13.00	39.20
5235.000	H	38.23	-55.67	11.34	1.46	-45.79	-13.00	32.79
5235.000	V	37.54	-56.17	11.34	1.46	-46.29	-13.00	33.29
1.4MHz QPSK, Frequency:			1779.3		MHz			
215.99	H	40.29	-72.28	0.00	0.27	-72.55	-13.00	59.55
85.00	V	43.49	-65.47	0.00	0.17	-65.64	-13.00	52.64
3558.600	H	37.16	-60.51	10.46	1.22	-51.27	-13.00	38.27
3558.600	V	35.61	-61.96	10.46	1.22	-52.72	-13.00	39.72
5337.900	H	42.73	-50.74	11.40	1.47	-40.81	-13.00	27.81
5337.900	V	38.16	-55.17	11.40	1.47	-45.24	-13.00	32.24

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 CR231061510-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061510-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061510-00G-TSP TEST SETUP PHOTOGRAPHS.

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