

Out of band emission, Band Edge-Full RB

Mode	Lowest	Highest
16QAM 1.4MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:02:42</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:02:58</p>
16QAM 3MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:03:54</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:04:10</p>
16QAM 5MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:04:58</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:05:15</p>

Out of band emission, Band Edge-Full RB

Mode	Lowest	Highest
16QAM 10MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:06:08</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:06:26</p>
16QAM 15MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:07:19</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:07:37</p>
16QAM 20MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:08:31</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:08:49</p>

Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
QPSK 1.4MHz	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 09:24:09</p>	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 09:15:12</p>
QPSK 3MHz	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 09:26:15</p>	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 10:00:09</p>
QPSK 5MHz	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 09:28:52</p>	<p>ProjectNo.:CR231165634 TesteriOne Luo Date: 15.DEC.2023 10:15:10</p>

Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
QPSK 10MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:30:57</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 10:17:21</p>
QPSK 15MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:32:52</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 10:19:39</p>
QPSK 20MHz	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 09:34:48</p>	<p>ProjectNo.:CR231165634 Tester:One Luo Date: 15.DEC.2023 10:22:19</p>

Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
16QAM 1.4MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 09:24:35</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 09:55:44</p>
16QAM 3MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 09:27:03</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 10:00:51</p>
16QAM 5MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 09:29:16</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15.DEC.2023 10:15:51</p>

Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
16QAM 10MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 09:31:22</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 10:17:46</p>
16QAM 15MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 09:33:11</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 10:20:00</p>
16QAM 20MHz	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 09:35:11</p>	<p>ProjectNo.:CR231165634 Testers:One Luo Date: 15 DEC.2023 10:22:40</p>

4.17 Radiated Spurious Emissions

Serial Number:	2BD2-5	Test Date:	2023/12/15~2023/12/19
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue, coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26~26.4	Relative Humidity: (%)	44~54	ATM Pressure: (kPa)	101.2~101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
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
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
Above 1GHz					
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
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
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

** 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 table and plots.

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								
724.26	H	21.03	-51.80	0.00	0.51	-52.31	-13.00	39.31
706.70	V	20.76	-49.01	0.00	0.54	-49.55	-13.00	36.55
1648.400	H	41.07	-63.26	8.68	0.80	-55.38	-13.00	42.38
1648.400	V	47.03	-57.38	8.68	0.80	-49.50	-13.00	36.50
2472.600	H	58.04	-42.74	9.38	1.00	-34.36	-13.00	21.36
2472.600	V	60.72	-40.01	9.38	1.00	-31.63	-13.00	18.63
3296.800	H	35.54	-61.14	10.32	1.15	-51.97	-13.00	38.97
3296.800	V	41.52	-54.92	10.32	1.15	-45.75	-13.00	32.75
GSM 850 Frequency:836.6MHz								
711.68	H	20.81	-52.27	0.00	0.51	-52.78	-13.00	39.78
719.18	V	20.87	-48.63	0.00	0.49	-49.12	-13.00	36.12
1673.200	H	46.94	-57.37	8.71	0.85	-49.51	-13.00	36.51
1673.200	V	45.31	-59.10	8.71	0.85	-51.24	-13.00	38.24
2509.800	H	65.90	-34.71	9.42	1.01	-26.30	-13.00	13.30
2509.800	V	60.83	-39.79	9.42	1.01	-31.38	-13.00	18.38
3346.400	H	36.58	-60.59	10.34	1.16	-51.41	-13.00	38.41
3346.400	V	39.66	-57.37	10.34	1.16	-48.19	-13.00	35.19
GSM 850 Frequency:848.8MHz								
672.89	H	20.96	-52.51	0.00	0.50	-53.01	-13.00	40.01
726.78	V	20.92	-48.42	0.00	0.52	-48.94	-13.00	35.94
1697.600	H	44.31	-59.98	8.74	0.90	-52.14	-13.00	39.14
1697.600	V	46.76	-57.66	8.74	0.90	-49.82	-13.00	36.82
2546.400	H	65.73	-34.60	9.47	1.01	-26.14	-13.00	13.14
2546.400	V	63.68	-36.60	9.47	1.01	-28.14	-13.00	15.14
3395.200	H	38.60	-59.09	10.36	1.19	-49.92	-13.00	36.92
3395.200	V	38.58	-59.08	10.36	1.19	-49.91	-13.00	36.91

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)			
PCS 1900 Frequency:1850.2MHz								
79.97	H	28.64	-81.12	-0.02	0.16	-81.30	-13.00	68.30
101.26	V	28.75	-78.20	0.00	0.19	-78.39	-13.00	65.39
3700.400	H	40.51	-56.81	10.60	1.25	-47.46	-13.00	34.46
3700.400	V	38.85	-58.45	10.60	1.25	-49.10	-13.00	36.10
5550.600	H	46.09	-47.17	11.44	1.49	-37.22	-13.00	24.22
5550.600	V	45.61	-47.49	11.44	1.49	-37.54	-13.00	24.54
PCS 1900 Frequency:1880MHz								
93.95	H	28.72	-84.05	0.00	0.18	-84.23	-13.00	71.23
87.40	V	29.08	-80.06	0.00	0.17	-80.23	-13.00	67.23
3760.000	H	37.35	-59.06	10.66	1.24	-49.64	-13.00	36.64
3760.000	V	40.60	-55.69	10.66	1.24	-46.27	-13.00	33.27
5640.000	H	47.42	-46.03	11.33	1.54	-36.24	-13.00	23.24
5640.000	V	45.01	-48.32	11.33	1.54	-38.53	-13.00	25.53
PCS 1900 Frequency:1909.8MHz								
54.97	H	28.70	-73.67	-12.61	0.13	-86.41	-13.00	73.41
78.41	V	28.93	-78.70	-0.80	0.16	-79.66	-13.00	66.66
3819.600	H	36.75	-59.11	10.72	1.29	-49.68	-13.00	36.68
3819.600	V	42.44	-53.28	10.72	1.29	-43.85	-13.00	30.85
5729.400	H	48.93	-44.55	11.22	1.59	-34.92	-13.00	21.92
5729.400	V	46.09	-47.27	11.22	1.59	-37.64	-13.00	24.64

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								
68.80	H	28.66	-75.13	-5.64	0.15	-80.92	-13.00	67.92
104.96	V	29.24	-77.47	0.00	0.19	-77.66	-13.00	64.66
3704.800	H	38.61	-58.65	10.60	1.25	-49.30	-13.00	36.30
3704.800	V	37.30	-59.93	10.60	1.25	-50.58	-13.00	37.58
5557.200	H	36.71	-56.57	11.43	1.49	-46.63	-13.00	33.63
5557.200	V	37.24	-55.89	11.43	1.49	-45.95	-13.00	32.95
WCDMA Band II, Frequency:1880 MHz								
58.16	H	28.69	-74.64	-11.15	0.14	-85.93	-13.00	72.93
75.25	V	29.45	-76.29	-2.38	0.16	-78.83	-13.00	65.83
3760.000	H	36.36	-60.05	10.66	1.24	-50.63	-13.00	37.63
3760.000	V	37.26	-59.03	10.66	1.24	-49.61	-13.00	36.61
5640.000	H	37.14	-56.31	11.33	1.54	-46.52	-13.00	33.52
5640.000	V	37.38	-55.95	11.33	1.54	-46.16	-13.00	33.16
WCDMA Band II, Frequency:1907.6MHz								
172.28	H	28.71	-83.44	0.00	0.24	-83.68	-13.00	70.68
48.91	V	28.97	-71.19	-15.97	0.12	-87.28	-13.00	74.28
3815.200	H	35.73	-60.12	10.72	1.29	-50.69	-13.00	37.69
3815.200	V	37.13	-58.56	10.72	1.29	-49.13	-13.00	36.13
5722.800	H	36.78	-56.71	11.23	1.58	-47.06	-13.00	34.06
5722.800	V	36.74	-56.61	11.23	1.58	-46.96	-13.00	33.96

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				
58.40	H	28.60	-74.80	-11.04	0.14	-85.98	-13.00	72.98
69.91	V	29.20	-73.44	-5.05	0.15	-78.64	-13.00	65.64
3424.800	H	36.31	-61.46	10.37	1.17	-52.26	-13.00	39.26
3424.800	V	36.69	-61.05	10.37	1.17	-51.85	-13.00	38.85
5137.200	H	36.09	-57.53	11.28	1.46	-47.71	-13.00	34.71
5137.200	V	35.42	-58.08	11.28	1.46	-48.26	-13.00	35.26
Frequency:			1732.6	MHz				
50.05	H	20.88	-80.01	-14.88	0.12	-95.01	-13.00	82.01
89.35	V	28.90	-80.38	0.00	0.18	-80.56	-13.00	67.56
3465.200	H	36.44	-61.37	10.39	1.15	-52.13	-13.00	39.13
3465.200	V	36.47	-61.30	10.39	1.15	-52.06	-13.00	39.06
5197.800	H	36.44	-57.69	11.32	1.44	-47.81	-13.00	34.81
5197.800	V	36.13	-57.85	11.32	1.44	-47.97	-13.00	34.97
Frequency:			1752.6	MHz				
77.56	H	28.69	-79.63	-1.22	0.16	-81.01	-13.00	68.01
192.41	V	29.57	-79.91	0.00	0.26	-80.17	-13.00	67.17
3505.200	H	36.16	-61.67	10.41	1.18	-52.44	-13.00	39.44
3505.200	V	36.47	-61.30	10.41	1.18	-52.07	-13.00	39.07
5257.800	H	35.48	-58.25	11.35	1.47	-48.37	-13.00	35.37
5257.800	V	34.68	-58.83	11.35	1.47	-48.95	-13.00	35.95

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								
709.18	H	20.87	-52.26	0.00	0.52	-52.78	-13.00	39.78
714.13	V	20.79	-48.82	0.00	0.50	-49.32	-13.00	36.32
1652.800	H	35.64	-68.69	8.68	0.81	-60.82	-13.00	47.82
1652.800	V	33.82	-70.59	8.68	0.81	-62.72	-13.00	49.72
2479.200	H	34.59	-66.17	9.39	1.01	-57.79	-13.00	44.79
2479.200	V	34.94	-65.79	9.39	1.01	-57.41	-13.00	44.41
3305.600	H	34.55	-62.18	10.32	1.15	-53.01	-13.00	40.01
3305.600	V	33.48	-63.02	10.32	1.15	-53.85	-13.00	40.85
WCDMA Band 5 Frequency:836.6MHz								
704.23	H	20.97	-52.26	0.00	0.55	-52.81	-13.00	39.81
647.41	V	21.11	-49.76	0.00	0.52	-50.28	-13.00	37.28
1673.200	H	35.32	-68.99	8.71	0.85	-61.13	-13.00	48.13
1673.200	V	34.41	-70.00	8.71	0.85	-62.14	-13.00	49.14
2509.800	H	35.61	-65.00	9.42	1.01	-56.59	-13.00	43.59
2509.800	V	35.39	-65.23	9.42	1.01	-56.82	-13.00	43.82
3346.400	H	35.07	-62.10	10.34	1.16	-52.92	-13.00	39.92
3346.400	V	35.15	-61.88	10.34	1.16	-52.70	-13.00	39.70
WCDMA Band 5 Frequency:846.6MHz								
687.17	H	20.84	-52.55	0.00	0.53	-53.08	-13.00	40.08
691.97	V	20.70	-49.37	0.00	0.54	-49.91	-13.00	36.91
1693.200	H	35.48	-68.82	8.73	0.89	-60.98	-13.00	47.98
1693.200	V	35.29	-69.13	8.73	0.89	-61.29	-13.00	48.29
2539.800	H	34.76	-65.62	9.46	1.01	-57.17	-13.00	44.17
2539.800	V	34.70	-65.64	9.46	1.01	-57.19	-13.00	44.19
3386.400	H	35.48	-62.11	10.35	1.18	-52.94	-13.00	39.94
3386.400	V	35.92	-61.62	10.35	1.18	-52.45	-13.00	39.45

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								
73.35	H	28.72	-77.07	-3.33	0.16	-80.56	-13.00	67.56
69.14	V	29.71	-73.19	-5.46	0.15	-78.80	-13.00	65.80
3701.400	H	41.79	-55.52	10.60	1.25	-46.17	-13.00	33.17
3701.400	V	41.29	-56.00	10.60	1.25	-46.65	-13.00	33.65
5552.100	H	41.10	-52.17	11.44	1.49	-42.22	-13.00	29.22
5552.100	V	44.19	-48.91	11.44	1.49	-38.96	-13.00	25.96
QPSK, 1.4MHz, Frequency:1880 MHz								
50.78	H	28.94	-72.16	-14.54	0.13	-86.83	-13.00	73.83
76.50	V	29.16	-77.33	-1.75	0.16	-79.24	-13.00	66.24
3760.000	H	40.02	-56.39	10.66	1.24	-46.97	-13.00	33.97
3760.000	V	38.70	-57.59	10.66	1.24	-48.17	-13.00	35.17
5640.000	H	41.83	-51.62	11.33	1.54	-41.83	-13.00	28.83
5640.000	V	41.43	-51.90	11.33	1.54	-42.11	-13.00	29.11
QPSK, 1.4MHz, Frequency:1909.3 MHz								
108.22	H	28.79	-83.46	0.00	0.19	-83.65	-13.00	70.65
122.76	V	28.89	-77.15	0.00	0.20	-77.35	-13.00	64.35
3818.600	H	40.08	-55.78	10.72	1.29	-46.35	-13.00	33.35
3818.600	V	38.92	-56.79	10.72	1.29	-47.36	-13.00	34.36
5727.900	H	40.66	-52.82	11.23	1.59	-43.18	-13.00	30.18
5727.900	V	40.69	-52.67	11.23	1.59	-43.03	-13.00	30.03

LTE Band 4(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:			1710.7	MHz				
103.26	H	28.61	-83.71	0.00	0.19	-83.90	-13.00	70.90
74.65	V	29.37	-76.02	-2.68	0.16	-78.86	-13.00	65.86
3421.400	H	41.49	-56.27	10.37	1.17	-47.07	-13.00	34.07
3421.400	V	43.40	-54.33	10.37	1.17	-45.13	-13.00	32.13
5132.100	H	37.33	-56.24	11.28	1.47	-46.43	-13.00	33.43
5132.100	V	37.80	-55.66	11.28	1.47	-45.85	-13.00	32.85
1.4MHz QPSK, Frequency:			1732.5	MHz				
57.93	H	28.58	-74.68	-11.25	0.14	-86.07	-13.00	73.07
59.45	V	29.65	-76.10	-10.55	0.14	-86.79	-13.00	73.79
3465.000	H	40.39	-57.42	10.39	1.15	-48.18	-13.00	35.18
3465.000	V	44.74	-53.03	10.39	1.15	-43.79	-13.00	30.79
5197.500	H	37.79	-56.34	11.32	1.44	-46.46	-13.00	33.46
5197.500	V	37.17	-56.81	11.32	1.44	-46.93	-13.00	33.93
1.4MHz QPSK, Frequency:			1754.3	MHz				
40.81	H	28.75	-56.93	-25.33	0.12	-82.38	-13.00	69.38
76.24	V	29.27	-77.07	-1.88	0.16	-79.11	-13.00	66.11
3508.600	H	42.73	-55.09	10.41	1.19	-45.87	-13.00	32.87
3508.600	V	44.43	-53.33	10.41	1.19	-44.11	-13.00	31.11
5262.900	H	37.36	-56.34	11.36	1.47	-46.45	-13.00	33.45
5262.900	V	36.48	-56.99	11.36	1.47	-47.10	-13.00	34.10

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								
701.43	H	20.90	-52.39	0.00	0.55	-52.94	-13.00	39.94
716.90	V	20.85	-48.70	0.00	0.50	-49.20	-13.00	36.20
1649.400	H	43.17	-61.16	8.68	0.80	-53.28	-13.00	40.28
1649.400	V	41.01	-63.40	8.68	0.80	-55.52	-13.00	42.52
2474.100	H	59.38	-41.40	9.38	1.00	-33.02	-13.00	20.02
2474.100	V	57.62	-43.11	9.38	1.00	-34.73	-13.00	21.73
3298.800	H	36.79	-59.89	10.32	1.15	-50.72	-13.00	37.72
3298.800	V	35.91	-60.53	10.32	1.15	-51.36	-13.00	38.36
QPSK, 1.4MHz, Frequency: 836.5 MHz								
675.24	H	21.09	-52.36	0.00	0.50	-52.86	-13.00	39.86
727.01	V	20.78	-48.55	0.00	0.52	-49.07	-13.00	36.07
1673.000	H	40.87	-63.44	8.71	0.85	-55.58	-13.00	42.58
1673.000	V	39.47	-64.94	8.71	0.85	-57.08	-13.00	44.08
2509.500	H	62.60	-38.01	9.42	1.01	-29.60	-13.00	16.60
2509.500	V	56.83	-43.79	9.42	1.01	-35.38	-13.00	22.38
3346.000	H	37.04	-60.12	10.34	1.16	-50.94	-13.00	37.94
3346.000	V	37.15	-59.87	10.34	1.16	-50.69	-13.00	37.69
QPSK, 1.4MHz, Frequency: 848.3 MHz								
721.89	H	20.93	-51.95	0.00	0.50	-52.45	-13.00	39.45
694.65	V	20.99	-49.03	0.00	0.55	-49.58	-13.00	36.58
1696.600	H	40.88	-63.41	8.74	0.89	-55.56	-13.00	42.56
1696.600	V	40.34	-64.08	8.74	0.89	-56.23	-13.00	43.23
2544.900	H	70.04	-30.30	9.47	1.01	-21.84	-13.00	8.84
2544.900	V	65.01	-35.29	9.47	1.01	-26.83	-13.00	13.83
3393.200	H	38.09	-59.58	10.36	1.19	-50.41	-13.00	37.41
3393.200	V	38.03	-59.60	10.36	1.19	-50.43	-13.00	37.43

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								
73.25	H	28.62	-77.11	-3.38	0.16	-80.65	-25.00	55.65
253.83	V	29.10	-81.70	0.00	0.30	-82.00	-25.00	57.00
5005.000	H	37.07	-55.89	11.20	1.47	-46.16	-25.00	21.16
5005.000	V	36.86	-55.96	11.20	1.47	-46.23	-25.00	21.23
7507.500	H	39.68	-50.11	10.90	1.95	-41.16	-25.00	16.16
7507.500	V	39.85	-50.44	10.90	1.95	-41.49	-25.00	16.49
5MHz QPSK, Frequency: 2535 MHz								
85.16	H	28.70	-82.76	0.00	0.17	-82.93	-25.00	57.93
193.82	V	28.86	-80.59	0.00	0.26	-80.85	-25.00	55.85
5070.000	H	39.06	-54.13	11.24	1.47	-44.36	-25.00	19.36
5070.000	V	37.50	-55.59	11.24	1.47	-45.82	-25.00	20.82
7605.000	H	39.18	-50.29	10.88	2.01	-41.42	-25.00	16.42
7605.000	V	39.76	-50.43	10.88	2.01	-41.56	-25.00	16.56
5MHz QPSK, Frequency: 2567.5 MHz								
55.22	H	28.63	-73.81	-12.50	0.13	-86.44	-25.00	61.44
82.16	V	29.05	-79.69	0.00	0.16	-79.85	-25.00	54.85
5135.000	H	45.25	-48.35	11.28	1.47	-38.54	-25.00	13.54
5135.000	V	40.38	-53.11	11.28	1.47	-43.30	-25.00	18.30
7702.500	H	41.87	-47.65	10.86	1.97	-38.76	-25.00	13.76
7702.500	V	39.49	-50.69	10.86	1.97	-41.80	-25.00	16.80

LTE Band 12:

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								
494.32	H	20.48	-55.47	0.00	0.45	-55.92	-13.00	42.92
522.85	V	20.63	-50.98	0.00	0.42	-51.40	-13.00	38.40
1399.400	H	47.15	-56.55	8.22	0.71	-49.04	-13.00	36.04
1399.400	V	39.87	-63.88	8.22	0.71	-56.37	-13.00	43.37
2099.100	H	38.33	-63.55	9.16	0.91	-55.30	-13.00	42.30
2099.100	V	37.65	-64.18	9.16	0.91	-55.93	-13.00	42.93
2798.800	H	37.26	-62.67	9.88	1.04	-53.83	-13.00	40.83
2798.800	V	37.07	-62.73	9.88	1.04	-53.89	-13.00	40.89
1.4MHz QPSK, Frequency: 707.5 MHz								
572.67	H	20.54	-53.86	0.00	0.46	-54.32	-13.00	41.32
609.98	V	20.57	-50.98	0.00	0.47	-51.45	-13.00	38.45
1415.000	H	35.54	-68.13	8.26	0.72	-60.59	-13.00	47.59
1415.000	V	35.87	-67.85	8.26	0.72	-60.31	-13.00	47.31
2122.500	H	38.48	-63.51	9.17	0.92	-55.26	-13.00	42.26
2122.500	V	36.68	-65.29	9.17	0.92	-57.04	-13.00	44.04
2830.000	H	36.69	-63.11	9.93	1.06	-54.24	-13.00	41.24
2830.000	V	37.57	-62.16	9.93	1.06	-53.29	-13.00	40.29
1.4MHz QPSK, Frequency: 715.3 MHz								
603.57	H	20.59	-53.25	0.00	0.50	-53.75	-13.00	40.75
546.72	V	20.59	-51.06	0.00	0.47	-51.53	-13.00	38.53
1430.600	H	36.11	-67.52	8.31	0.73	-59.94	-13.00	46.94
1430.600	V	34.67	-69.02	8.31	0.73	-61.44	-13.00	48.44
2145.900	H	46.39	-55.71	9.19	0.93	-47.45	-13.00	34.45
2145.900	V	40.33	-61.78	9.19	0.93	-53.52	-13.00	40.52
2861.200	H	38.81	-60.84	9.98	1.07	-51.93	-13.00	38.93
2861.200	V	37.33	-62.34	9.98	1.07	-53.43	-13.00	40.43

LTE Band 17:

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:			706.5 MHz					
618.63	H	20.62	-53.14	0.00	0.49	-53.63	-13.00	40.63
501.32	V	20.58	-51.00	0.00	0.45	-51.45	-13.00	38.45
1413.000	H	35.98	-67.69	8.26	0.72	-60.15	-13.00	47.15
1413.000	V	35.37	-68.35	8.26	0.72	-60.81	-13.00	47.81
2119.500	H	37.36	-64.61	9.17	0.92	-56.36	-13.00	43.36
2119.500	V	37.33	-64.62	9.17	0.92	-56.37	-13.00	43.37
2826.000	H	37.22	-62.59	9.92	1.06	-53.73	-13.00	40.73
2826.000	V	36.80	-62.94	9.92	1.06	-54.08	-13.00	41.08
5MHz QPSK, Frequency:			710 MHz					
580.83	H	20.53	-53.71	0.00	0.46	-54.17	-13.00	41.17
422.25	V	20.61	-54.06	0.00	0.39	-54.45	-13.00	41.45
1420.000	H	36.09	-67.57	8.28	0.73	-60.02	-13.00	47.02
1420.000	V	36.05	-67.66	8.28	0.73	-60.11	-13.00	47.11
2130.000	H	39.85	-62.17	9.18	0.92	-53.91	-13.00	40.91
2130.000	V	41.63	-60.38	9.18	0.92	-52.12	-13.00	39.12
2840.000	H	37.25	-62.50	9.94	1.06	-53.62	-13.00	40.62
2840.000	V	36.65	-63.06	9.94	1.06	-54.18	-13.00	41.18
5MHz QPSK, Frequency:			713.5 MHz					
443.51	H	20.56	-56.42	0.00	0.43	-56.85	-13.00	43.85
625.12	V	20.51	-50.77	0.00	0.48	-51.25	-13.00	38.25
1427.000	H	36.65	-66.99	8.30	0.73	-59.42	-13.00	46.42
1427.000	V	37.08	-66.61	8.30	0.73	-59.04	-13.00	46.04
2140.500	H	39.17	-62.90	9.18	0.93	-54.65	-13.00	41.65
2140.500	V	39.92	-62.16	9.18	0.93	-53.91	-13.00	40.91
2854.000	H	37.16	-62.53	9.97	1.07	-53.63	-13.00	40.63
2854.000	V	36.69	-62.99	9.97	1.07	-54.09	-13.00	41.09

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				
57.52	H	28.66	-74.47	-11.44	0.14	-86.05	-25.00	61.05
66.35	V	28.77	-75.08	-6.93	0.15	-82.16	-25.00	57.16
5145.000	H	39.65	-54.03	11.29	1.44	-44.18	-25.00	19.18
5145.000	V	40.80	-52.77	11.29	1.44	-42.92	-25.00	17.92
7717.500	H	40.13	-49.38	10.86	1.99	-40.51	-25.00	15.51
7717.500	V	39.60	-50.53	10.86	1.99	-41.66	-25.00	16.66
5MHz QPSK, Frequency:			2595	MHz				
107.32	H	28.68	-83.59	0.00	0.19	-83.78	-25.00	58.78
140.83	V	29.36	-78.64	0.00	0.22	-78.86	-25.00	53.86
5190.000	H	40.61	-53.46	11.31	1.44	-43.59	-25.00	18.59
5190.000	V	39.99	-53.93	11.31	1.44	-44.06	-25.00	19.06
7785.000	H	40.83	-48.66	10.84	1.99	-39.81	-25.00	14.81
7785.000	V	39.89	-50.03	10.84	1.99	-41.18	-25.00	16.18
5MHz QPSK, Frequency:			2617.5	MHz				
166.28	H	28.82	-83.06	0.00	0.24	-83.30	-25.00	58.30
62.70	V	29.17	-75.92	-8.87	0.14	-84.93	-25.00	59.93
5235.000	H	39.38	-54.52	11.34	1.46	-44.64	-25.00	19.64
5235.000	V	39.83	-53.88	11.34	1.46	-44.00	-25.00	19.00
7852.500	H	39.58	-49.61	10.83	2.03	-40.81	-25.00	15.81
7852.500	V	39.25	-50.33	10.83	2.03	-41.53	-25.00	16.53

LTE Band 40 Lower (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: 2307.5 MHz								
97.70	H	28.83	-83.69	0.00	0.19	-83.88	-40.00	43.88
77.09	V	28.98	-77.86	-1.46	0.16	-79.48	-40.00	39.48
4615.000	H	38.95	-56.41	10.74	1.41	-47.08	-40.00	7.08
4615.000	V	38.23	-56.99	10.74	1.41	-47.66	-40.00	7.66
6922.500	H	38.95	-52.07	11.22	1.88	-42.73	-40.00	2.73
6922.500	V	39.19	-51.70	11.22	1.88	-42.36	-40.00	2.36
5MHz QPSK, Frequency: 2312.5 MHz								
52.19	H	28.99	-72.54	-13.89	0.13	-86.56	-40.00	46.56
69.40	V	28.86	-73.95	-5.32	0.15	-79.42	-40.00	39.42
4625.000	H	39.39	-55.90	10.75	1.41	-46.56	-40.00	6.56
4625.000	V	39.11	-56.06	10.75	1.41	-46.72	-40.00	6.72
6937.500	H	38.78	-52.20	11.21	1.90	-42.89	-40.00	2.89
6937.500	V	39.38	-51.46	11.21	1.90	-42.15	-40.00	2.15

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								
80.02	H	28.84	-80.95	0.00	0.16	-81.11	-40.00	41.11
49.70	V	29.31	-71.62	-15.19	0.12	-86.93	-40.00	46.93
4705.000	H	39.09	-55.69	10.85	1.41	-46.25	-40.00	6.25
4705.000	V	38.54	-56.26	10.85	1.41	-46.82	-40.00	6.82
7057.500	H	37.84	-52.17	11.17	1.92	-42.92	-40.00	2.92
7057.500	V	38.31	-51.59	11.17	1.92	-42.34	-40.00	2.34
5MHz QPSK, Frequency: 2357.5 MHz								
108.70	H	28.78	-83.47	0.00	0.19	-83.66	-40.00	43.66
38.88	V	28.99	-59.74	-25.86	0.11	-85.71	-40.00	45.71
4715.000	H	40.00	-54.71	10.86	1.41	-45.26	-40.00	5.26
4715.000	V	37.92	-56.79	10.86	1.41	-47.34	-40.00	7.34
7072.500	H	38.48	-51.32	11.16	1.91	-42.07	-40.00	2.07
7072.500	V	38.01	-51.70	11.16	1.91	-42.45	-40.00	2.45

LTE Band 41 (30MHz-27GHz):

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, 5MHz, Frequency: 2498.5 MHz								
37.94	H	28.96	-52.54	-25.41	0.11	-78.06	-25.00	53.06
49.17	V	28.81	-71.60	-15.71	0.12	-87.43	-25.00	62.43
4997.000	H	36.76	-56.18	11.20	1.48	-46.46	-25.00	21.46
4997.000	V	36.72	-56.08	11.20	1.48	-46.36	-25.00	21.36
7495.500	H	40.24	-49.55	10.90	1.94	-40.59	-25.00	15.59
7495.500	V	39.91	-50.38	10.90	1.94	-41.42	-25.00	16.42
QPSK, 5MHz, Frequency: 2593 MHz								
58.43	H	28.86	-74.55	-11.02	0.14	-85.71	-25.00	60.71
76.99	V	29.14	-77.64	-1.51	0.16	-79.31	-25.00	54.31
5186.000	H	39.29	-54.74	11.31	1.44	-44.87	-25.00	19.87
5186.000	V	39.16	-54.73	11.31	1.44	-44.86	-25.00	19.86
7779.000	H	39.09	-50.40	10.84	1.99	-41.55	-25.00	16.55
7779.000	V	39.39	-50.55	10.84	1.99	-41.70	-25.00	16.70
QPSK, 5MHz, Frequency: 2687.5 MHz								
209.13	H	28.65	-84.06	0.00	0.26	-84.32	-25.00	59.32
152.45	V	29.02	-79.19	0.00	0.23	-79.42	-25.00	54.42
5375.000	H	38.71	-54.80	11.43	1.49	-44.86	-25.00	19.86
5375.000	V	38.35	-55.15	11.43	1.49	-45.21	-25.00	20.21
8062.500	H	37.39	-50.83	10.81	2.12	-42.14	-25.00	17.14
8062.500	V	37.63	-51.09	10.81	2.12	-42.40	-25.00	17.40

LTE Band 42 (30MHz-36GHz):

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, 5MHz, Frequency: 3452.5 MHz								
38.69	H	28.88	-53.68	-25.77	0.11	-79.56	-13.00	66.56
51.32	V	27.92	-73.94	-14.29	0.13	-88.36	-13.00	75.36
6905.000	H	38.56	-52.52	11.22	1.87	-43.17	-13.00	30.17
6905.000	V	37.61	-53.33	11.22	1.87	-43.98	-13.00	30.98
10357.500	H	37.32	-49.02	11.49	2.49	-40.02	-13.00	27.02
10357.500	V	37.15	-49.30	11.49	2.49	-40.30	-13.00	27.30
QPSK, 5MHz, Frequency:3500 MHz								
55.23	H	28.26	-74.18	-12.49	0.13	-86.80	-13.00	73.80
69.24	V	29.11	-73.76	-5.40	0.15	-79.31	-13.00	66.31
7000.000	H	38.13	-52.67	11.20	1.89	-43.36	-13.00	30.36
7000.000	V	38.10	-52.55	11.20	1.89	-43.24	-13.00	30.24
10500.000	H	37.78	-48.26	11.40	2.52	-39.38	-13.00	26.38
10500.000	V	37.25	-48.88	11.40	2.52	-40.00	-13.00	27.00
QPSK, 5MHz, Frequency:3547.5 MHz								
99.63	H	28.12	-84.27	0.00	0.19	-84.46	-13.00	71.46
101.24	V	28.33	-78.62	0.00	0.19	-78.81	-13.00	65.81
7095.000	H	39.12	-50.37	11.14	1.89	-41.12	-13.00	28.12
7095.000	V	38.85	-50.57	11.14	1.89	-41.32	-13.00	28.32
10642.500	H	38.52	-47.38	11.40	2.50	-38.48	-13.00	25.48
10642.500	V	38.61	-47.43	11.40	2.50	-38.53	-13.00	25.53

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)			
1.4MHz QPSK, Frequency:			1710.7	MHz				
51.37	H	28.72	-72.56	-14.27	0.13	-86.96	-13.00	73.96
74.72	V	29.40	-76.03	-2.64	0.16	-78.83	-13.00	65.83
3421.400	H	41.87	-55.89	10.37	1.17	-46.69	-13.00	33.69
3421.400	V	46.20	-51.53	10.37	1.17	-42.33	-13.00	29.33
5132.100	H	41.22	-52.35	11.28	1.47	-42.54	-13.00	29.54
5132.100	V	40.95	-52.51	11.28	1.47	-42.70	-13.00	29.70
1.4MHz QPSK, Frequency:			1745	MHz				
81.57	H	28.78	-81.51	0.00	0.16	-81.67	-13.00	68.67
43.41	V	29.21	-65.03	-21.90	0.12	-87.05	-13.00	74.05
3490.000	H	41.77	-56.07	10.40	1.17	-46.84	-13.00	33.84
3490.000	V	44.63	-53.15	10.40	1.17	-43.92	-13.00	30.92
5235.000	H	41.08	-52.82	11.34	1.46	-42.94	-13.00	29.94
5235.000	V	40.17	-53.54	11.34	1.46	-43.66	-13.00	30.66
1.4MHz QPSK, Frequency:			1779.3	MHz				
199.98	H	29.11	-83.78	0.00	0.26	-84.04	-13.00	71.04
99.94	V	29.14	-77.90	0.00	0.19	-78.09	-13.00	65.09
3558.600	H	42.21	-55.46	10.46	1.22	-46.22	-13.00	33.22
3558.600	V	43.01	-54.56	10.46	1.22	-45.32	-13.00	32.32
5337.900	H	38.60	-54.87	11.40	1.47	-44.94	-13.00	31.94
5337.900	V	38.32	-55.01	11.40	1.47	-45.08	-13.00	32.08

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 CR231165634-EXP EUT EXTERNAL PHOTOGRAPHS and CR231165634-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231165634-00E-TSP TEST SETUP PHOTOGRAPHS.

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