

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz -0.60 dB SWT 5 ms 5.160000000 MHz OSW 4.560000000 MHz Marker 1 [T1] 1.849920000 GHz -1.72 dBm Temp 1 [T1 OSW] 1.850220000 GHz -1.55 dBm Temp 2 [T1 OSW] 1.854780000 GHz -1.29 dBm</p> <p>Center 1.8525 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:13:59</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz 0.02 dB SWT 5 ms 5.120000000 MHz OSW 4.520000000 MHz Marker 1 [T1] 1.849920000 GHz -1.78 dBm Temp 1 [T1 OSW] 1.850240000 GHz -1.65 dBm Temp 2 [T1 OSW] 1.854760000 GHz -1.27 dBm</p> <p>Center 1.8525 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:14:19</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz -1.32 dB SWT 5 ms 5.140000000 MHz OSW 4.520000000 MHz Marker 1 [T1] 1.879940000 GHz -1.53 dBm Temp 1 [T1 OSW] 1.880240000 GHz -1.38 dBm Temp 2 [T1 OSW] 1.884760000 GHz -1.28 dBm</p> <p>Center 1.8825 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:14:40</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz -0.71 dB SWT 5 ms 5.200000000 MHz OSW 4.540000000 MHz Marker 1 [T1] 1.879900000 GHz -1.94 dBm Temp 1 [T1 OSW] 1.880220000 GHz -1.78 dBm Temp 2 [T1 OSW] 1.884760000 GHz -1.29 dBm</p> <p>Center 1.8825 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:15:03</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz -0.32 dB SWT 5 ms 5.160000000 MHz OSW 4.520000000 MHz Marker 1 [T1] 1.909940000 GHz -1.47 dBm Temp 1 [T1 OSW] 1.910240000 GHz -1.38 dBm Temp 2 [T1 OSW] 1.914760000 GHz -1.29 dBm</p> <p>Center 1.9125 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:15:24</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz 0.81 dB SWT 5 ms 5.240000000 MHz OSW 4.540000000 MHz Marker 1 [T1] 1.909920000 GHz -1.72 dBm Temp 1 [T1 OSW] 1.910240000 GHz -1.58 dBm Temp 2 [T1 OSW] 1.914780000 GHz -1.28 dBm</p> <p>Center 1.9125 GHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 13:15:43</p>

Occupied Bandwidth

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

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -2.00 dB *VMW 1 MHz SWT 2.5 ms 15.00000000 MHz OSW 3.50000000 MHz Marker 1 [T1] -1.42 dBm D1 15.77 dBm Temp 1 [T1 OSW] 1.84994000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.85072000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.86422000 GHz Center 1.8575 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:27:19</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 3.20 dB *VMW 1 MHz SWT 2.5 ms 15.12000000 MHz OSW 3.50000000 MHz Marker 1 [T1] -1.68 dBm D1 14.57 dBm Temp 1 [T1 OSW] 1.84988000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.85072000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.86428000 GHz Center 1.8575 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:27:38</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.81 dB *VMW 1 MHz SWT 2.5 ms 15.06000000 MHz OSW 3.50000000 MHz Marker 1 [T1] -1.13 dBm D1 14.13 dBm Temp 1 [T1 OSW] 1.87500000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.87572000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.88928000 GHz Center 1.8825 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:27:59</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.13 dB *VMW 1 MHz SWT 2.5 ms 14.94000000 MHz OSW 3.50000000 MHz Marker 1 [T1] -1.33 dBm D1 13.65 dBm Temp 1 [T1 OSW] 1.87500000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.87572000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.88928000 GHz Center 1.8825 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:28:19</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.82 dB *VMW 1 MHz SWT 2.5 ms 15.06000000 MHz OSW 3.50000000 MHz Marker 1 [T1] -1.83 dBm D1 15.99 dBm Temp 1 [T1 OSW] 1.90000000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.90072000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.91428000 GHz Center 1.9075 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:28:41</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.14 dB *VMW 1 MHz SWT 2.5 ms 15.06000000 MHz OSW 3.62000000 MHz Marker 1 [T1] -1.93 dBm D1 14.9 dBm Temp 1 [T1 OSW] 1.90000000 GHz D2 10.00 dBm Temp 2 [T1 OSW] 1.90072000 GHz D3 10.00 dBm Temp 3 [T1 OSW] 1.91434000 GHz Center 1.9075 GHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 13:29:01</p>

Occupied Bandwidth

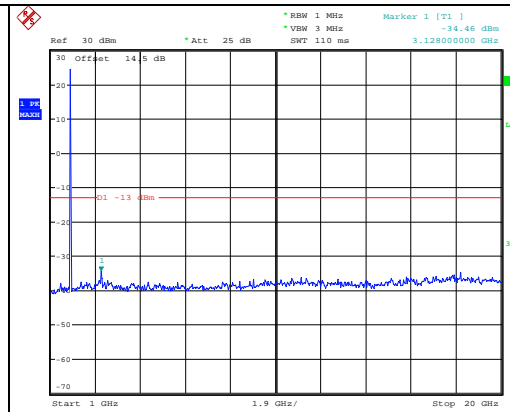
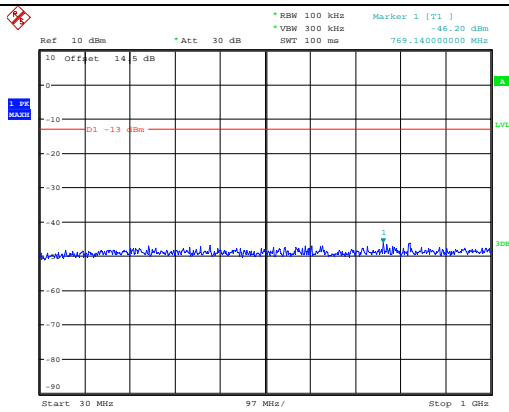
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Date: 8.JUL.2023 13:36:55</p>	<p>Date: 8.JUL.2023 13:37:16</p>
Middle	<p>Date: 8.JUL.2023 13:37:36</p>	<p>Date: 8.JUL.2023 13:37:59</p>
Highest	<p>Date: 8.JUL.2023 13:38:20</p>	<p>Date: 8.JUL.2023 13:38:41</p>

Spurious Emissions at Antenna Terminal

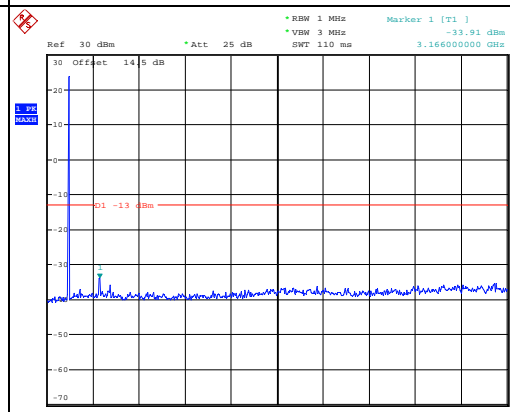
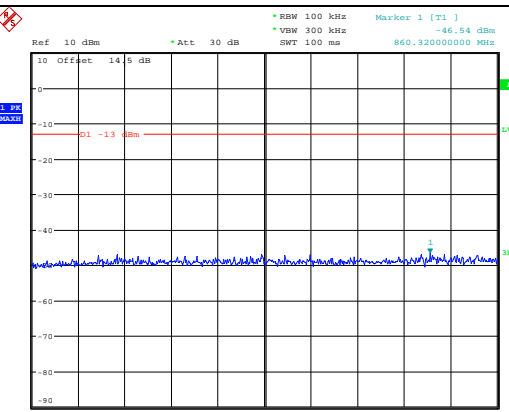
Channel

1.4MHz Bandwidth QPSK

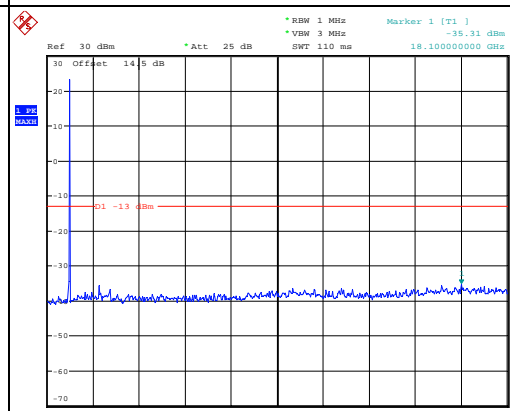
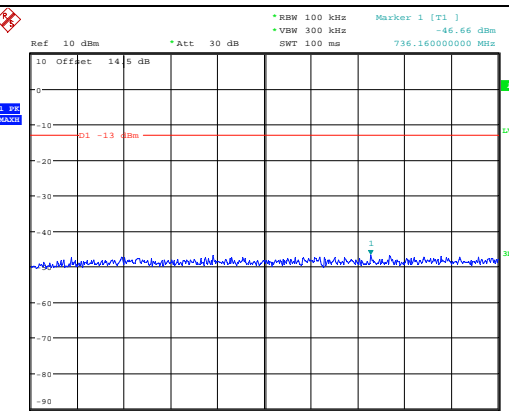
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

Channel	3MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB Marker 1 [T1] -45.92 dBm *RBW 100 kHz *VBW 300 kHz *SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 8.JUL.2023 15:50:52</p>	<p>Ref 30 dBm Att 25 dB Marker 1 [T1] -34.29 dBm *RBW 1 MHz *VBW 3 MHz *SWT 110 ms Start 1 GHz 1.9 GHz/ Stop 20 GHz Date: 8.JUL.2023 15:51:05</p>
Middle	<p>Ref 10 dBm Att 30 dB Marker 1 [T1] -46.98 dBm *RBW 100 kHz *VBW 300 kHz *SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 8.JUL.2023 15:51:23</p>	<p>Ref 30 dBm Att 25 dB Marker 1 [T1] -33.59 dBm *RBW 1 MHz *VBW 3 MHz *SWT 110 ms Start 1 GHz 1.9 GHz/ Stop 20 GHz Date: 8.JUL.2023 15:51:36</p>
Highest	<p>Ref 10 dBm Att 30 dB Marker 1 [T1] -46.27 dBm *RBW 100 kHz *VBW 300 kHz *SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 8.JUL.2023 15:51:51</p>	<p>Ref 30 dBm Att 25 dB Marker 1 [T1] -34.09 dBm *RBW 1 MHz *VBW 3 MHz *SWT 110 ms Start 1 GHz 1.9 GHz/ Stop 20 GHz Date: 8.JUL.2023 15:52:03</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz *VMW 300 kHz *SWT 100 ms *Marker 1 [T1] -46.37 dBm 381.140000000 MHz</p> <p>Date: 8.JUL.2023 15:52:42</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VMW 3 MHz *SWT 110 ms *Marker 1 [T1] -34.69 dBm 16.960000000 GHz</p> <p>Date: 8.JUL.2023 15:52:55</p>
Middle	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz *VMW 300 kHz *SWT 100 ms *Marker 1 [T1] -46.81 dBm 850.620000000 MHz</p> <p>Date: 8.JUL.2023 15:53:13</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VMW 3 MHz *SWT 110 ms *Marker 1 [T1] -33.21 dBm 3.128000000 GHz</p> <p>Date: 8.JUL.2023 15:53:26</p>
Highest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz *VMW 300 kHz *SWT 100 ms *Marker 1 [T1] -46.64 dBm 986.420000000 MHz</p> <p>Date: 8.JUL.2023 15:53:45</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VMW 3 MHz *SWT 110 ms *Marker 1 [T1] -35.18 dBm 17.720000000 GHz</p> <p>Date: 8.JUL.2023 15:53:57</p>

Spurious Emissions at Antenna Terminal

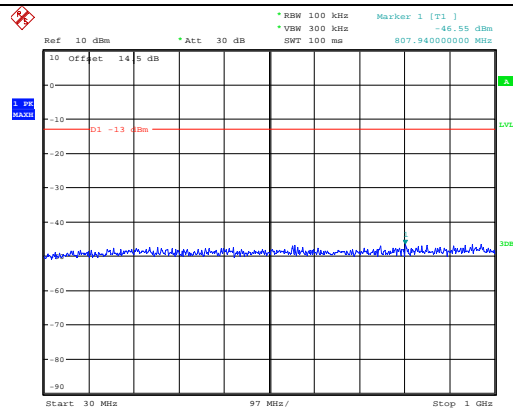
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.53 dBm VSW 300 kHz SWT 100 ms 964.488000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 8.JUL.2023 15:54:39</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -34.54 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 8.JUL.2023 15:54:52</p>
Middle	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.70 dBm VSW 300 kHz SWT 100 ms 369.500000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 8.JUL.2023 15:55:10</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -35.33 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 8.JUL.2023 15:55:23</p>
Highest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.70 dBm VSW 300 kHz SWT 100 ms 1.000000000 GHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 8.JUL.2023 15:55:41</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -34.62 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 8.JUL.2023 15:55:54</p>

Spurious Emissions at Antenna Terminal

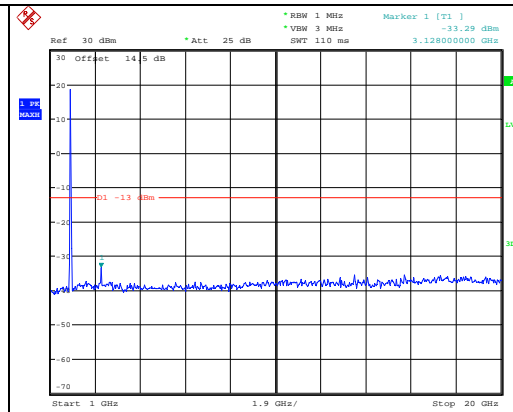
Channel

15MHz Bandwidth QPSK

Lowest

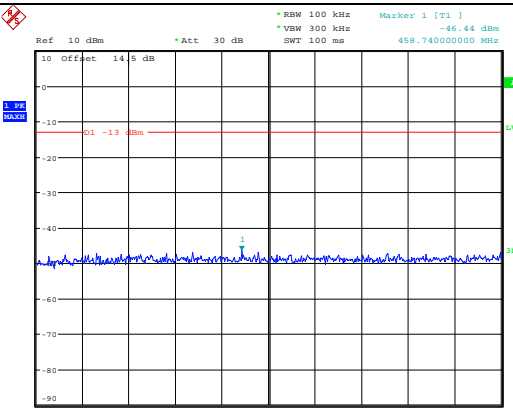


Date: 8.JUL.2023 15:56:47

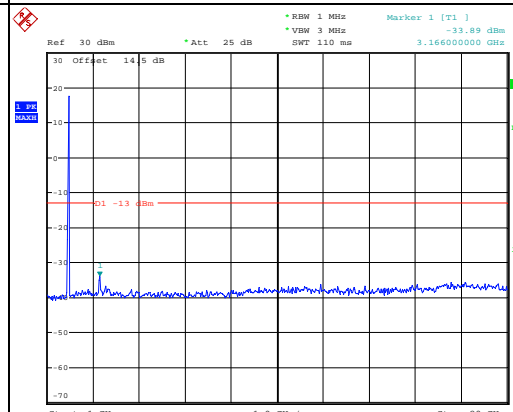


Date: 8.JUL.2023 15:57:00

Middle

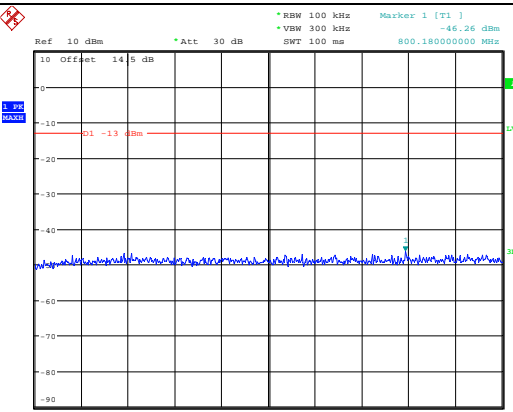


Date: 8.JUL.2023 15:57:15

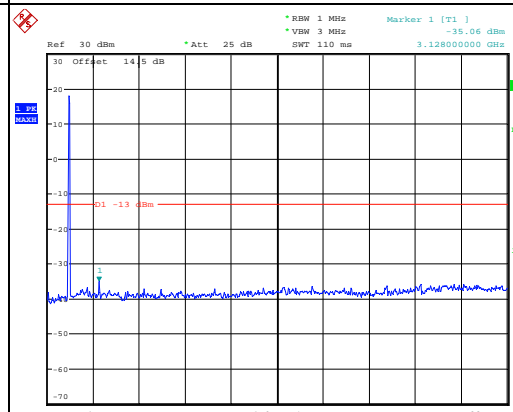


Date: 8.JUL.2023 15:57:28

Highest



Date: 8.JUL.2023 15:57:43



Date: 8.JUL.2023 15:57:56

Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Date: 8.JUL.2023 15:58:38</p>	<p>Date: 8.JUL.2023 15:58:52</p>
Middle	<p>Date: 8.JUL.2023 15:59:10</p>	<p>Date: 8.JUL.2023 15:59:22</p>
Highest	<p>Date: 8.JUL.2023 15:59:40</p>	<p>Date: 8.JUL.2023 15:59:53</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -30.18 dBm</p> <p>Center 1.85 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 14:50:50</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -29.74 dBm</p> <p>Center 1.915 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 14:51:11</p>
<p>QPSK 3MHz</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz VBW 100 kHz SWT 30 ms Marker 1 [T1] -34.52 dBm</p> <p>Center 1.85 GHz 600 kHz/ Span 6 MHz</p> <p>Date: 8.JUL.2023 14:57:39</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -33.69 dBm</p> <p>Center 1.915 GHz 600 kHz/ Span 6 MHz</p> <p>Date: 8.JUL.2023 14:58:00</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -25.01 dBm VBW 300 kHz SWT 35 ms 1.85000000 GHz</p> <p>Center: 1.85 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 14:58:46</p>	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -24.09 dBm VBW 300 kHz SWT 35 ms 1.91500000 GHz</p> <p>Center: 1.915 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 14:59:08</p>
QPSK 10MHz	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -30.02 dBm VBW 300 kHz SWT 10 ms 1.85000000 GHz</p> <p>Center: 1.85 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 15:23:53</p>	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -31.23 dBm VBW 300 kHz SWT 35 ms 1.91500000 GHz</p> <p>Center: 1.915 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 15:24:18</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 15MHz</p>	<p>Date: 8.JUL.2023 15:25:12</p>	<p>Date: 8.JUL.2023 15:25:30</p>
<p>QPSK 20MHz</p>	<p>Date: 8.JUL.2023 15:36:22</p>	<p>Date: 8.JUL.2023 15:36:42</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Date: 8.JUL.2023 14:51:00</p>	<p>Date: 8.JUL.2023 14:51:21</p>
16QAM 3MHz	<p>Date: 8.JUL.2023 14:57:49</p>	<p>Date: 8.JUL.2023 14:58:12</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -26.60 dBm 1.85000000 GHz</p> <p>Offset 14.5 dB</p> <p>Center 1.85 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 14:58:56</p>	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -25.35 dBm 1.91500000 GHz</p> <p>Offset 14.5 dB</p> <p>Center 1.915 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 14:59:18</p>
16QAM 10MHz	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -33.14 dBm 1.849960000 GHz</p> <p>Offset 14.5 dB</p> <p>Center 1.85 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 15:24:05</p>	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -32.35 dBm 1.915040000 GHz</p> <p>Offset 14.5 dB</p> <p>Center 1.915 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 15:24:30</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 15MHz		
16QAM 20MHz		

4.12 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/7/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency For 90S (MHz)	Highest Frequency For 90S (MHz)	Channel Cross 90S and 22H	Lowest Frequency For 22H (MHz)	Middle Frequency For 22H (MHz)	Highest Frequency For 22H (MHz)
1.4MHz	814.7	823.3	824	824.7	831.5	848.3
3MHz	815.5	822.5	824	825.5	831.5	847.5
5MHz	816.5	821.5	824	826.5	831.5	846.5
10MHz	819	/	824	829	831.5	844
15MHz	821.5	/	824	831.5	836.5	841.5

Note: 15MHz bandwidth 821.5MHz cross Rules 90S and 22H.

Test Data:**FCC§2.1046; § 22.913 (a), § 90.635****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)						Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel For 90S	Highest Channel For 90S	Cross Channe	Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H		
1.4MHz QPSK	RB1#0	23.93	23.79	23.78	23.04	23.56	23.26	20.35	38.45
	RB1#3	24.1	23.98	23.97	23.23	23.64	23.43		
	RB1#5	23.92	23.80	23.79	23.05	23.39	23.22		
	RB3#0	24.05	23.97	23.96	23.22	23.55	23.39		
	RB3#3	24.04	24.01	24.00	23.26	23.58	23.38		
	RB6#0	23	22.91	22.90	22.16	22.64	22.27		
1.4MHz 16QAM	RB1#0	23.06	22.88	22.87	22.13	22.7	22.31	19.49	38.45
	RB1#3	23.24	23.11	23.10	22.36	22.68	22.49		
	RB1#5	23.1	22.90	22.89	22.15	22.55	22.27		
	RB3#0	23.02	23.08	23.07	22.33	22.61	22.59		
	RB3#3	23.13	23.09	23.08	22.34	22.62	22.58		
	RB6#0	22.3	21.91	21.90	21.16	21.99	21.4		
3MHz QPSK	RB1#0	24.46	23.88	23.87	23.13	24.41	24.3	20.76	38.45
	RB1#8	24.51	23.91	23.90	23.16	24.4	23.78		
	RB1#14	24.48	23.93	23.92	23.18	24.38	23.69		
	RB6#0	23.44	22.79	22.78	22.04	23.3	22.69		
	RB6#9	23.47	22.81	22.80	22.06	23.33	22.64		
	RB15#0	23.53	22.92	22.91	22.17	23.39	22.72		
3MHz 16QAM	RB1#0	24.06	23.04	23.03	22.29	23.56	22.77	20.35	38.45
	RB1#8	24.1	23.06	23.05	22.31	23.41	22.79		
	RB1#14	24.09	23.11	23.10	22.36	23.32	22.71		
	RB6#0	22.53	21.89	21.88	21.14	22.4	21.72		
	RB6#9	22.54	21.97	21.96	21.22	22.42	21.69		
	RB15#0	22.6	21.91	21.90	21.16	22.34	21.85		
5MHz QPSK	RB1#0	24.09	23.73	23.72	22.98	23.86	23.94	20.45	38.45
	RB1#13	24.2	23.72	23.71	22.97	23.72	23.86		
	RB1#24	23.98	23.62	23.61	22.87	23.69	23.68		
	RB15#0	23.32	22.73	22.72	21.98	23.21	22.82		
	RB15#10	23.28	22.73	22.72	21.98	23.14	22.67		
	RB25#0	23.22	22.74	22.73	21.99	23.08	22.77		
5MHz 16QAM	RB1#0	23	22.98	22.97	22.23	22.91	23.04	19.49	38.45
	RB1#13	23.24	23.18	23.17	22.43	22.88	23.13		
	RB1#24	23.08	22.98	22.97	22.23	22.66	22.96		
	RB15#0	22.54	21.72	21.71	20.97	22.24	21.86		
	RB15#10	22.52	21.83	21.82	21.08	22.18	21.71		
	RB25#0	22.5	21.93	21.92	21.18	22.2	21.84		
10MHz QPSK	RB1#0	24.01	/	23.75	23.01	24.08	24.22	20.48	38.45
	RB1#25	24.23	/	24.05	23.31	24.14	23.95		
	RB1#49	24.03	/	23.67	22.93	23.92	23.74		
	RB25#0	23.38	/	22.78	22.04	23.23	23		
	RB25#25	23.34	/	22.88	22.14	23.31	22.76		
	RB50#0	23.41	/	22.83	22.09	23.34	22.85		
10MHz 16QAM	RB1#0	23.09	/	23.02	22.28	23.6	22.99	20.00	38.45
	RB1#25	23.22	/	23.16	22.42	23.75	23.09		

	RB1#49	23.12	/	23.06	22.32	23.59	22.92		
	RB25#0	22.6	/	21.67	20.93	22.47	21.99		
	RB25#25	22.46	/	21.73	20.99	22.49	21.84		
	RB50#0	22.62	/	21.63	20.89	22.41	21.85		
15MHz QPSK	RB1#0	24.51	/	23.86	23.12	23.8	23.7	20.76	38.45
	RB1#38	24.51	/	23.94	23.20	23.7	23.47		
	RB1#74	24.45	/	23.94	23.20	23.49	23.2		
	RB36#0	23.6	/	22.76	22.02	22.91	22.42		
	RB36#39	23.58	/	22.87	22.13	22.67	22.31		
	RB75#0	23.64	/	22.84	22.10	22.89	22.38		
15MHz 16QAM	RB1#0	23.9	/	23.03	22.29	23.11	22.5	20.24	38.45
	RB1#38	23.99	/	23.12	22.38	22.98	22.51		
	RB1#74	23.83	/	23.09	22.35	22.88	22.38		
	RB36#0	22.58	/	21.81	21.07	21.94	21.54		
	RB36#39	22.58	/	21.95	21.21	21.76	21.33		
	RB75#0	22.56	/	21.92	21.18	21.87	21.74		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

The limit of 90S is 50dBm(100W) for conducted. Limit of 22H is 38.45dBm for ERP. The stricter limit was listed in the table.

Result: Pass

Peak-to-average Ratio (PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H	
15MHz QPSK	RB1#0	8.08	8.27	8.37	13
	RB75#0	5.93	5.87	5.80	13
15MHz 16QAM	RB1#0	8.46	8.65	8.43	13
	RB75#0	6.89	6.86	6.83	13
Result:					Pass

FCC §2.1049, §22.905, §90.209: Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.104	1.106	1.106	1.106	1.098	1.098
1.4MHz 16QAM	1.092	1.096	1.096	1.101	1.098	1.104
3MHz QPSK	2.688	2.683	2.683	2.683	2.868	2.687
3MHz 16QAM	2.688	2.683	2.683	2.673	2.904	2.687
5MHz QPSK	4.520	4.519	4.503	4.519	4.520	4.500
5MHz 16QAM	4.520	4.519	4.503	4.487	4.520	4.500
10MHz QPSK	8.960	/	8.974	8.974	8.960	8.960
10MHz 16QAM	8.960	/	8.974	8.974	8.960	8.960
15MHz QPSK	13.500	/	13.558	13.558	13.500	13.500
15MHz 16QAM	13.560	/	13.510	13.510	13.500	13.500
Operation Mode	26 dB Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.296	1.321	1.320	1.301	1.098	1.296
1.4MHz 16QAM	1.302	1.300	1.296	1.308	1.098	1.320
3MHz QPSK	2.880	2.879	2.886	2.892	2.687	2.892
3MHz 16QAM	2.880	2.894	2.891	2.879	2.687	2.868
5MHz QPSK	5.000	4.942	4.923	4.952	4.520	4.940
5MHz 16QAM	4.980	4.978	4.971	4.936	4.520	4.900
10MHz QPSK	9.600	/	9.679	9.635	9.520	9.560
10MHz 16QAM	9.680	/	9.615	9.603	9.560	9.560
15MHz QPSK	14.760	/	14.846	14.869	15.600	14.700
15MHz 16QAM	14.940	/	14.760	14.840	14.760	14.700

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

FCC §2.1051, §22.917(a), § 90.691:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, §22.917(a), §90.691: Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	3.05	0.004	2.5
	-20	3.8	-1.99	-0.002	2.5
	-10	3.8	11.25	0.014	2.5
	0	3.8	12.13	0.015	2.5
	10	3.8	12.14	0.015	2.5
	20	3.8	-4.55	-0.005	2.5
	30	3.8	-2.66	-0.003	2.5
	40	3.8	-0.73	-0.001	2.5
	50	3.8	-3.44	-0.004	2.5
Frequency Stability vs. Voltage	20	3.65	-1.62	-0.002	2.5
	20	4.35	10.93	0.013	2.5
Result:				Pass	

FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz QAM		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	1.14	0.001	2.5
	-20	3.8	10.7	0.013	2.5
	-10	3.8	10.38	0.012	2.5
	0	3.8	12.49	0.015	2.5
	10	3.8	-2.79	-0.003	2.5
	20	3.8	-3.21	-0.004	2.5
	30	3.8	11.94	0.014	2.5
	40	3.8	-4.1	-0.005	2.5
	50	3.8	-1.05	-0.001	2.5
Frequency Stability vs. Voltage	20	3.65	-3.1	-0.004	2.5
	20	4.35	10.76	0.013	2.5
Result:				Pass	

FCC §2.1055, §22.355, §90.213: Frequency Stability

Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	3.12	0.004	2.5
	-20	3.8	-2.33	-0.003	2.5
	-10	3.8	11.98	0.014	2.5
	0	3.8	12.33	0.015	2.5
	10	3.8	12.12	0.015	2.5
	20	3.8	-4.67	-0.006	2.5
	30	3.8	-2.43	-0.003	2.5
	40	3.8	-0.61	-0.001	2.5
Frequency Stability vs. Voltage	20	3.65	-1.58	-0.002	2.5
	20	4.35	11.09	0.013	2.5
Result:				Pass	

FCC §2.1055, §22.355, §90.213: Frequency Stability

Test Modulation:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	1.25	0.002	2.5
	-20	3.8	10.49	0.013	2.5
	-10	3.8	10.31	0.012	2.5
	0	3.8	12.36	0.015	2.5
	10	3.8	-2.75	-0.003	2.5
	20	3.8	-2.92	-0.004	2.5
	30	3.8	11.45	0.014	2.5
	40	3.8	-4.33	-0.005	2.5
Frequency Stability vs. Voltage	20	3.65	-3.44	-0.004	2.5
	20	4.35	10.51	0.013	2.5
Result:				Pass	

Test Plots (Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.54 dB *VBW 100 kHz *FSW 1.308000000 MHz 30 Offset 14.5 dB D1 15.22 dBm D2 -10.78 dBm OBW 1.104000000 MHz Marker 1 [T1] 14.42 dBm 814.046000000 MHz Temp 1 [T1] OSW] 14.86 dBm 814.148000000 MHz Temp 2 [T1] OSW] 15.40 dBm 815.252000000 MHz Center 814.7 MHz 300 kHz/ Span 3 MHz Date: 8.JUL.2023 13:39:13</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.02 dB *VBW 100 kHz *FSW 1.284000000 MHz 30 Offset 14.5 dB D1 14.69 dBm D2 -11.31 dBm OBW 1.092000000 MHz Marker 1 [T1] 14.42 dBm 814.058000000 MHz Temp 1 [T1] OSW] 14.86 dBm 814.154000000 MHz Temp 2 [T1] OSW] 15.40 dBm 815.246000000 MHz Center 814.7 MHz 300 kHz/ Span 3 MHz Date: 8.JUL.2023 13:39:34</p>
Highest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.61 dB *VBW 100 kHz *FSW 1.321153846 MHz 30 Offset 14.5 dB D1 16.4 dBm D2 -11.4 dBm OBW 1.105769231 MHz Marker 1 [T1] 14.42 dBm 823.647111386 MHz Temp 1 [T1] OSW] 14.86 dBm 823.75192077 MHz Temp 2 [T1] OSW] 15.40 dBm 823.85769308 MHz Center 823.3 MHz 300 kHz/ Span 3 MHz Date: 10.JUL.2023 10:04:29</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.38 dB *VBW 100 kHz *FSW 1.300000000 MHz 30 Offset 14.5 dB D1 15.64 dBm D2 -10.34 dBm OBW 1.096153846 MHz Marker 1 [T1] 14.42 dBm 823.644231529 MHz Temp 1 [T1] OSW] 14.86 dBm 823.75192077 MHz Temp 2 [T1] OSW] 15.40 dBm 823.84807923 MHz Center 823.3 MHz 300 kHz/ Span 3 MHz Date: 10.JUL.2023 10:02:31</p>
Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.50 dB *VBW 100 kHz *FSW 1.320192308 MHz 30 Offset 14.5 dB D1 16.37 dBm D2 -11.63 dBm OBW 1.105769231 MHz Marker 1 [T1] 14.42 dBm 823.347111386 MHz Temp 1 [T1] OSW] 14.86 dBm 823.45192077 MHz Temp 2 [T1] OSW] 15.40 dBm 824.55769308 MHz Center 824 MHz 300 kHz/ Span 3 MHz Date: 10.JUL.2023 09:24:32</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.58 dB *VBW 100 kHz *FSW 1.296153846 MHz 30 Offset 14.5 dB D1 15.81 dBm D2 -10.17 dBm OBW 1.096153846 MHz Marker 1 [T1] 14.42 dBm 823.349231529 MHz Temp 1 [T1] OSW] 14.86 dBm 823.45192077 MHz Temp 2 [T1] OSW] 15.40 dBm 824.54807923 MHz Center 824 MHz 300 kHz/ Span 3 MHz Date: 10.JUL.2023 09:26:43</p>

Occupied Bandwidth

Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest For 22H	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] 0.65 dB * VBW 100 kHz * SWT 15 ms 1.300961538 MHz OSW 1.105761231 MHz Marker 1 [T1] -1.28 dBm D1 17.14 dBm Temp 1 [T1 OSW] -1.28 dBm 824.14711385 MHz Temp 2 [T1 OSW] -1.28 dBm 825.25288615 MHz D2 3.86 dBm Center 824.7 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 10.JUL.2023 09:00:33</p>	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] 0.83 dB * VBW 100 kHz * SWT 15 ms 1.307692308 MHz OSW 1.100961538 MHz Marker 1 [T1] -1.28 dBm D1 16.44 dBm Temp 1 [T1 OSW] -1.28 dBm 824.15192077 MHz Temp 2 [T1 OSW] -1.28 dBm 825.25288615 MHz D2 3.84 dBm Center 824.7 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 10.JUL.2023 09:03:51</p>
Middle For 22H	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] -0.40 dB * VBW 100 kHz * SWT 15 ms 1.296000000 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.28 dBm D1 16.74 dBm Temp 1 [T1 OSW] -1.28 dBm 830.948000000 MHz Temp 2 [T1 OSW] -1.28 dBm 832.046000000 MHz D2 3.24 dBm Center 831.5 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 13:39:58</p>	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] -0.01 dB * VBW 100 kHz * SWT 15 ms 1.302000000 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.28 dBm D1 16.44 dBm Temp 1 [T1 OSW] -1.28 dBm 830.954000000 MHz Temp 2 [T1 OSW] -1.28 dBm 832.052000000 MHz D2 3.84 dBm Center 831.5 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 13:40:31</p>
Highest For 22H	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] 1.24 dB * VBW 100 kHz * SWT 15 ms 1.296000000 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.28 dBm D1 16.84 dBm Temp 1 [T1 OSW] -1.28 dBm 847.748000000 MHz Temp 2 [T1 OSW] -1.28 dBm 848.846000000 MHz D2 3.14 dBm Center 848.3 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 13:40:49</p>	<p>Ref 30 dBm * Att 25 dB * RBW 30 kHz Delta 1 [T1] 2.08 dB * VBW 100 kHz * SWT 15 ms 1.320000000 MHz OSW 1.104000000 MHz Marker 1 [T1] -1.28 dBm D1 16.84 dBm Temp 1 [T1 OSW] -1.28 dBm 847.748000000 MHz Temp 2 [T1 OSW] -1.28 dBm 848.852000000 MHz D2 3.13 dBm Center 848.3 MHz 300 kHz/ Span 3 MHz</p> <p>Date: 8.JUL.2023 13:41:13</p>

Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 90S		
Highest For 90S		
Cross Channel		

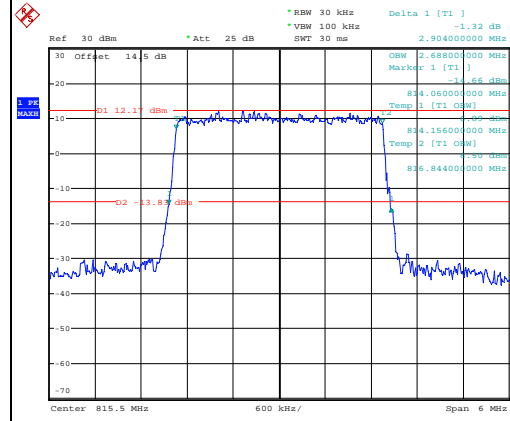
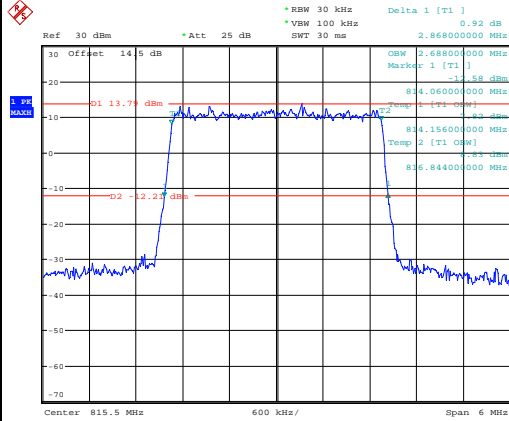
Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

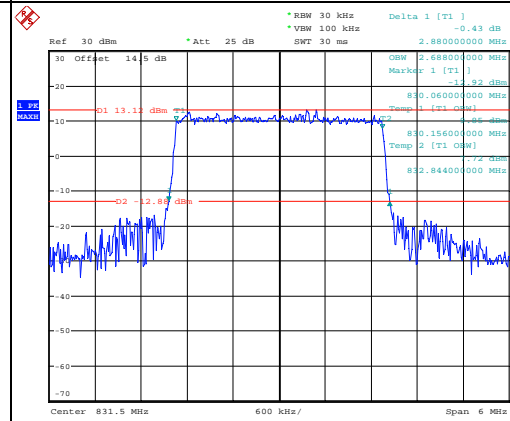
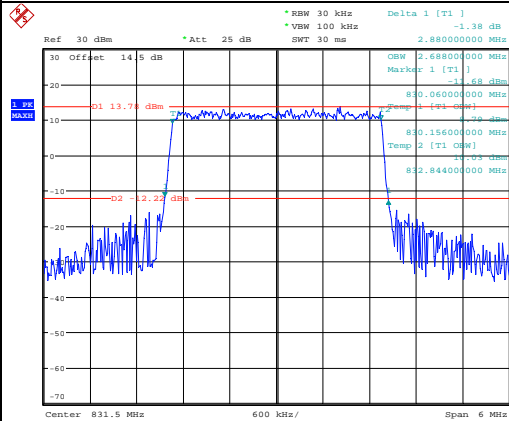
Lowest
For 22H



Date: 8.JUL.2023 13:41:59

Date: 8.JUL.2023 13:42:23

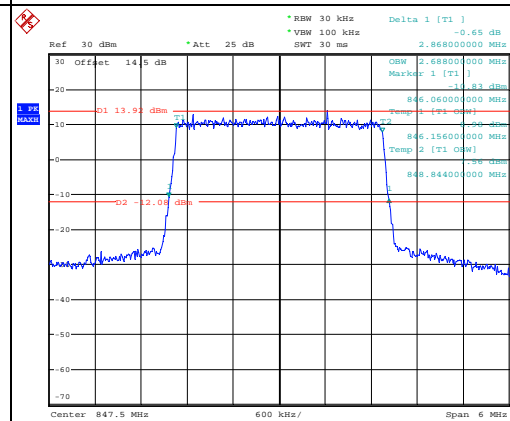
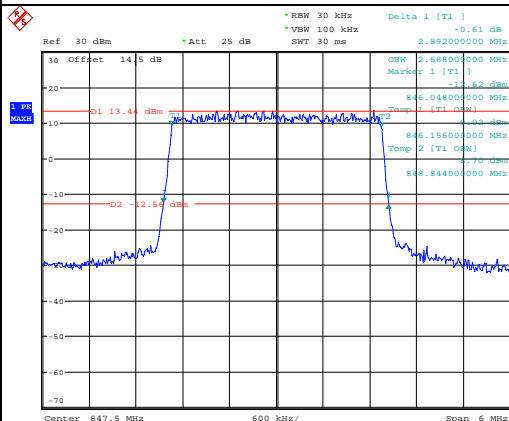
Middle
For 22H



Date: 8.JUL.2023 13:42:50

Date: 8.JUL.2023 13:43:23

Highest
For 22H



Date: 8.JUL.2023 13:43:41

Date: 8.JUL.2023 13:43:57

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.16 dB *VBW 300 kHz 4.92000000 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.16 dBm OSW 4.92000000 MHz D1 15.94 dBm Temp 1 [T1 OSW] 814.06000000 MHz Temp 2 [T1 OSW] 818.76000000 MHz</p> <p>Center 816.5 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 13:51:10</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.63 dB *VBW 300 kHz 4.98000000 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.02 dBm OSW 4.98000000 MHz D1 14 dBm Temp 1 [T1 OSW] 814.00000000 MHz Temp 2 [T1 OSW] 818.76000000 MHz</p> <p>Center 816.5 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 8.JUL.2023 14:03:38</p>
Highest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.14 dB *VBW 300 kHz 4.942307692 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.29 dBm OSW 4.942307692 MHz D1 15.54 dBm Temp 1 [T1 OSW] 819.02884154 MHz Temp 2 [T1 OSW] 823.75961385 MHz</p> <p>Center 821.5 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 10.JUL.2023 10:21:13</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.08 dB *VBW 300 kHz 4.977564103 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.29 dBm OSW 4.977564103 MHz D1 14.82 dBm Temp 1 [T1 OSW] 819.00961385 MHz Temp 2 [T1 OSW] 823.75961385 MHz</p> <p>Center 821.5 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 10.JUL.2023 10:20:07</p>
Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.74 dB *VBW 300 kHz 4.923076923 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.06 dBm OSW 4.923076923 MHz D1 16.47 dBm Temp 1 [T1 OSW] 821.53829410 MHz Temp 2 [T1 OSW] 826.25961385 MHz</p> <p>Center 824 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 10.JUL.2023 10:22:53</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.13 dB *VBW 300 kHz 4.971538462 MHz SWT 5 ms Offset 14.5 dB Marker 1 [T1] -1.02 dBm OSW 4.971538462 MHz D1 15.04 dBm Temp 1 [T1 OSW] 821.50320128 MHz Temp 2 [T1 OSW] 826.25961385 MHz</p> <p>Center 824 MHz 1 MHz/ Span 10 MHz</p> <p>Date: 10.JUL.2023 10:24:39</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest For 22H		
Middle For 22H		
Highest For 22H		

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest For 90S		
Cross Channel		

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Marker 1 [T1] Delta 1 [T1]</p> <p>OSW 8.974358974 MHz -13.97 dBm</p> <p>824.147435897 MHz</p> <p>824.17948179 MHz -1.87 dBm</p> <p>824.51282513 MHz -1.44 dBm</p> <p>833.487174487 MHz -12.04 dBm</p> <p>Center 829 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 10.JUL.2023 10:37:50</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Delta 1 [T1]</p> <p>OSW 8.974358974 MHz -1.87 dBm</p> <p>824.17948179 MHz</p> <p>824.51282513 MHz -1.44 dBm</p> <p>833.487174487 MHz -12.04 dBm</p> <p>Center 829 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 10.JUL.2023 10:30:04</p>
Middle For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Delta 1 [T1]</p> <p>OSW 8.960000000 MHz -1.84 dBm</p> <p>826.740000000 MHz</p> <p>827.020000000 MHz -1.72 dBm</p> <p>826.980000000 MHz -11.93 dBm</p> <p>Center 831.5 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 14:09:36</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Delta 1 [T1]</p> <p>OSW 8.960000000 MHz -1.74 dBm</p> <p>826.700000000 MHz</p> <p>827.020000000 MHz -1.72 dBm</p> <p>826.980000000 MHz -14.35 dBm</p> <p>Center 831.5 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 14:09:56</p>
Highest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Delta 1 [T1]</p> <p>OSW 8.960000000 MHz -1.74 dBm</p> <p>839.200000000 MHz</p> <p>839.520000000 MHz -1.68 dBm</p> <p>848.480000000 MHz -11.93 dBm</p> <p>Center 844 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 14:10:20</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz VSW 300 kHz SWT 10 ms</p> <p>Delta 1 [T1]</p> <p>OSW 8.960000000 MHz -1.57 dBm</p> <p>839.160000000 MHz</p> <p>839.520000000 MHz -1.68 dBm</p> <p>848.480000000 MHz -13.13 dBm</p> <p>Center 844 MHz 2 MHz/ Span 20 MHz</p> <p>Date: 8.JUL.2023 14:10:39</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Middle For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -1.38 dB SWT 2.5 ms 14.760000000 MHz OSW 13.500000000 MHz Marker 1 [T1] -16.44 dBm Temp 1 [T1 Off] -16.44 dBm 824.780000000 MHz Temp 2 [T1 Off] -16.44 dBm 828.280000000 MHz Center 821.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:11:25</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -2.28 dB SWT 2.5 ms 14.940000000 MHz OSW 13.560000000 MHz Marker 1 [T1] -15.51 dBm Temp 1 [T1 Off] -15.51 dBm 833.940000000 MHz Temp 2 [T1 Off] -15.51 dBm 837.440000000 MHz Temp 3 [T1 Off] -15.51 dBm 840.940000000 MHz Center 821.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:11:45</p>
Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz 0.36 dB SWT 2.5 ms 14.846153846 MHz OSW 13.587691038 MHz Marker 1 [T1] -16.51 dBm Temp 1 [T1 Off] -16.51 dBm 837.221153846 MHz Temp 2 [T1 Off] -16.51 dBm 850.778846154 MHz Center 824 MHz 3 MHz/ Span 30 MHz Date: 10.JUL.2023 10:56:22</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz 1.73 dB SWT 2.5 ms 14.759615385 MHz OSW 13.509615385 MHz Marker 1 [T1] -16.44 dBm Temp 1 [T1 Off] -16.44 dBm 837.269230769 MHz Temp 2 [T1 Off] -16.44 dBm 850.778846154 MHz Center 824 MHz 3 MHz/ Span 30 MHz Date: 10.JUL.2023 10:54:47</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest For 22H	<p>Date: 10.JUL.2023 10:43:22</p>	<p>Date: 10.JUL.2023 10:41:40</p>
Middle For 22H	<p>Date: 8.JUL.2023 14:12:06</p>	<p>Date: 8.JUL.2023 14:12:26</p>
Highest For 22H	<p>Date: 8.JUL.2023 14:12:47</p>	<p>Date: 8.JUL.2023 14:13:06</p>

Spurious Emissions at Antenna Terminal

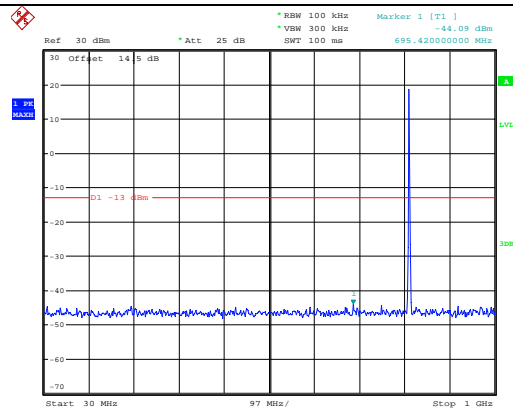
Channel	1.4MHz Bandwidth QPSK	
Lowest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -44.28 dBm 630.342948718 MHz</p> <p>Date: 10.JUL.2023 11:36:54</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 70 ms Marker 1 [T1] -32.25 dBm 3.146634615 GHz</p> <p>Date: 10.JUL.2023 11:37:38</p>
Highest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -44.14 dBm 557.282051282 MHz</p> <p>Date: 10.JUL.2023 11:39:18</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 70 ms Marker 1 [T1] -34.64 dBm 3.165464744 GHz</p> <p>Date: 10.JUL.2023 11:38:32</p>
Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -43.90 dBm 732.006410256 MHz</p> <p>Date: 10.JUL.2023 11:39:59</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 70 ms Marker 1 [T1] -32.78 dBm 3.146634615 GHz</p> <p>Date: 10.JUL.2023 11:40:13</p>

Spurious Emissions at Antenna Terminal

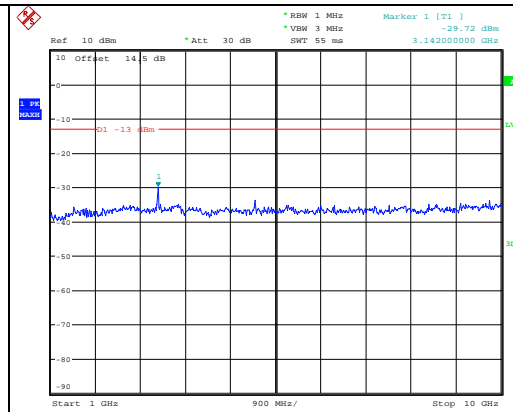
Channel

1.4MHz Bandwidth QPSK

Lowest For 22H

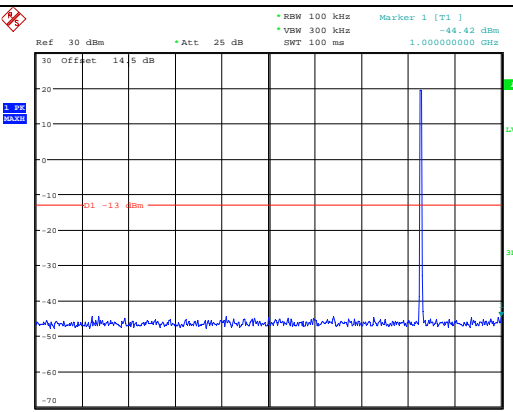


Date: 8.JUL.2023 16:00:13

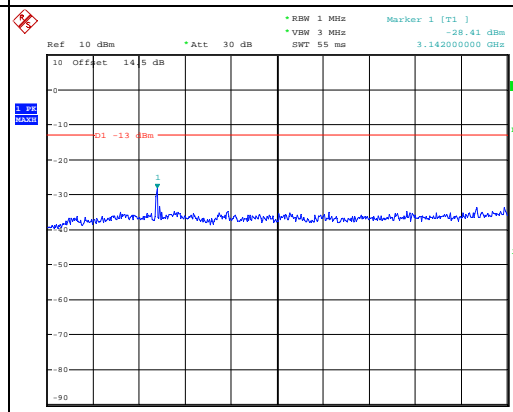


Date: 8.JUL.2023 16:00:25

Middle For 22H

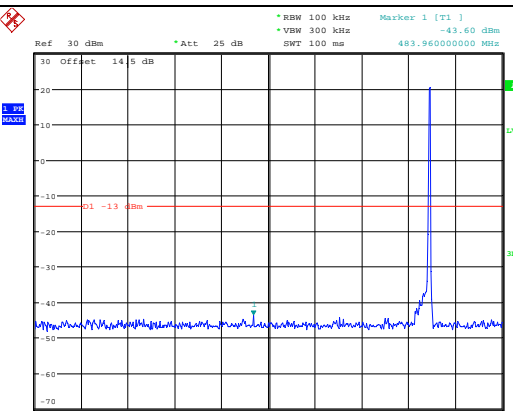


Date: 8.JUL.2023 16:00:44

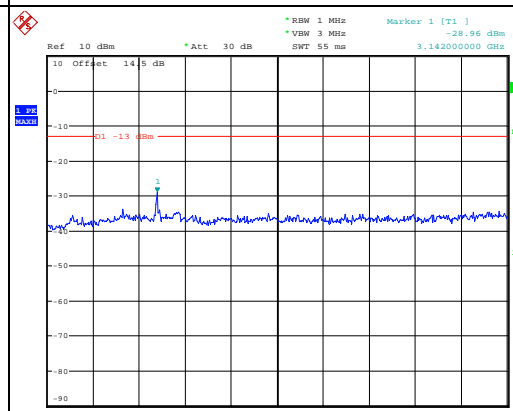


Date: 8.JUL.2023 16:00:56

Highest For 22H



Date: 8.JUL.2023 16:01:15



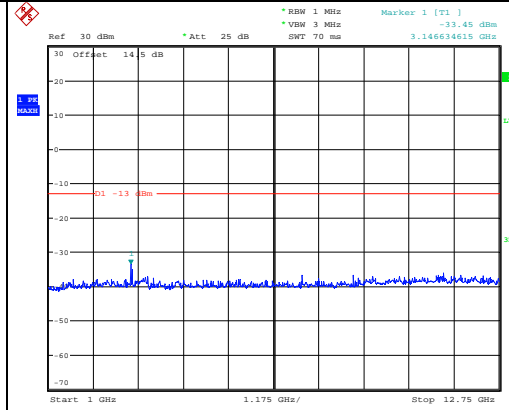
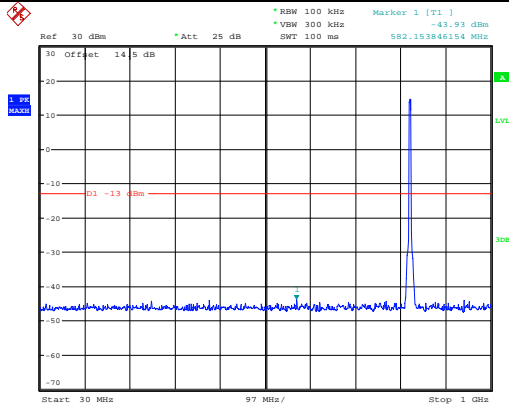
Date: 8.JUL.2023 16:01:27

Spurious Emissions at Antenna Terminal

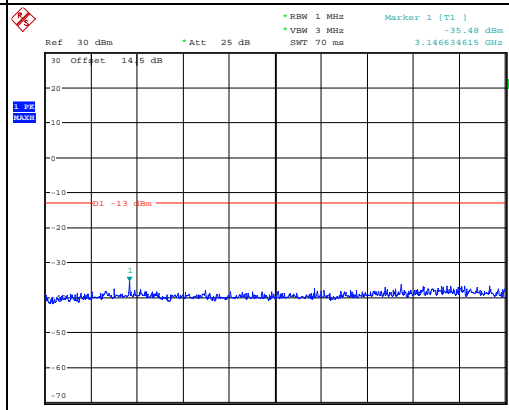
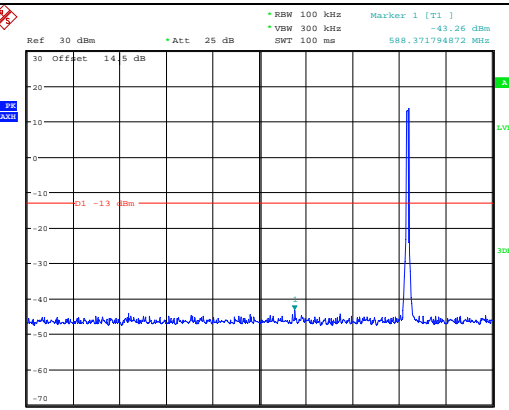
Channel

3MHz Bandwidth QPSK

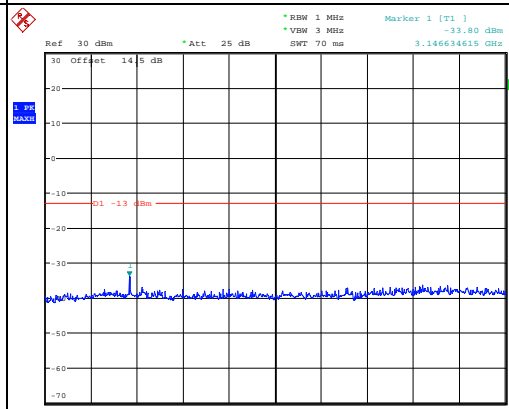
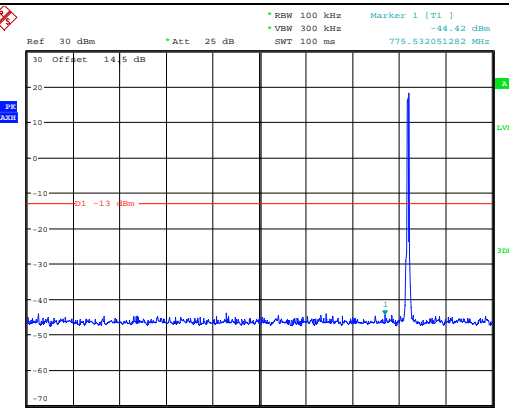
Lowest For 90S



Highest For 90S



Cross Channel

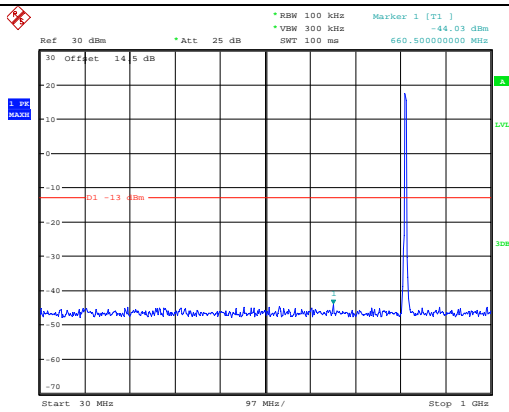


Spurious Emissions at Antenna Terminal

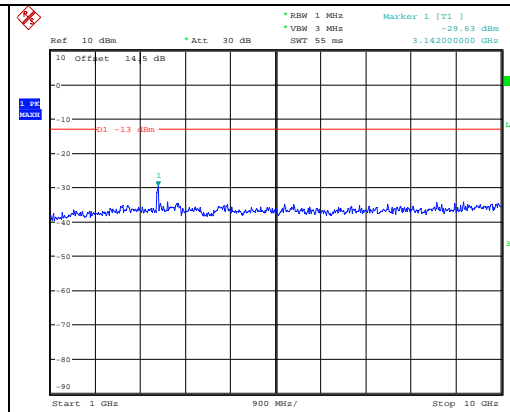
Channel

3MHz Bandwidth QPSK

Lowest
For 22H

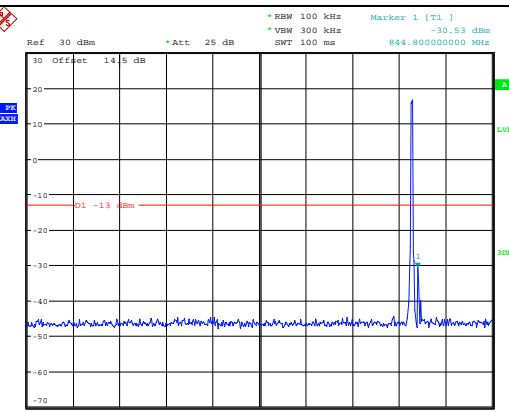


Date: 8.JUL.2023 16:02:12

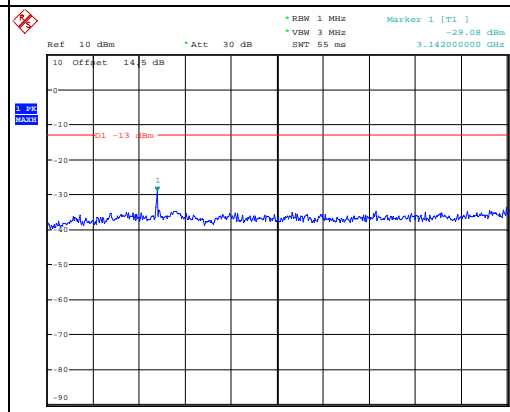


Date: 8.JUL.2023 16:02:25

Middle
For 22H

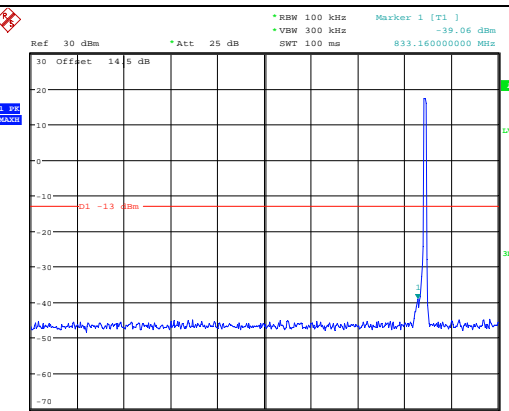


Date: 8.JUL.2023 16:02:43

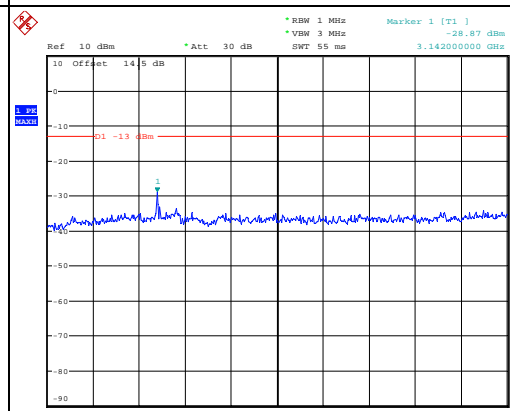


Date: 8.JUL.2023 16:02:56

Highest
For 22H



Date: 8.JUL.2023 16:09:54



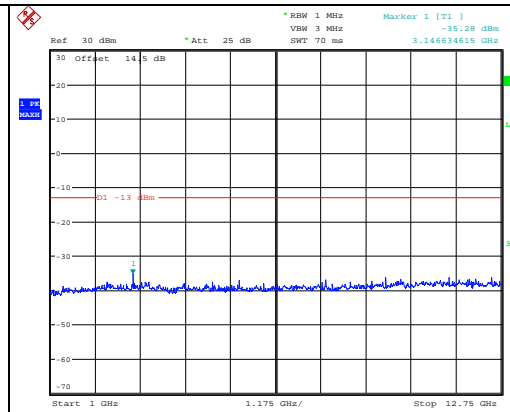
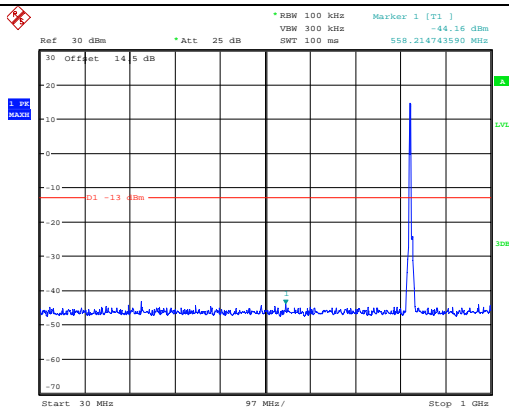
Date: 8.JUL.2023 16:10:07

Spurious Emissions at Antenna Terminal

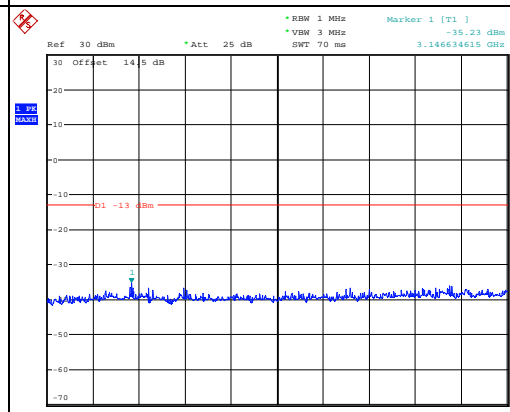
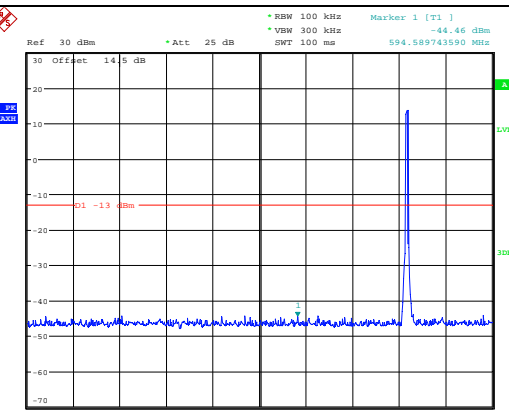
Channel

5MHz Bandwidth QPSK

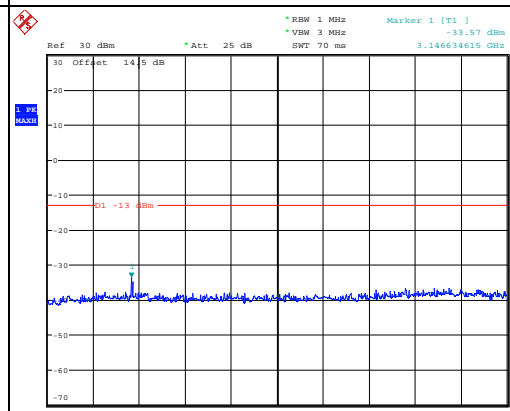
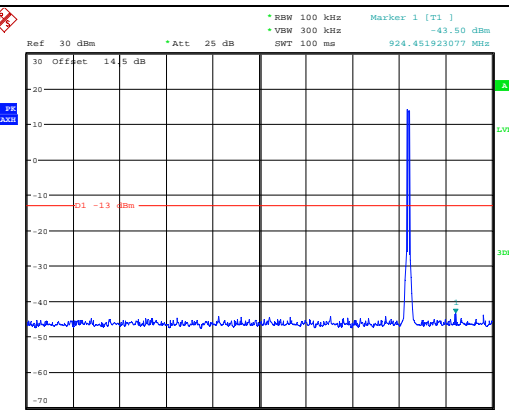
Lowest For 90S



Highest For 90S



Cross Channel



Spurious Emissions at Antenna Terminal

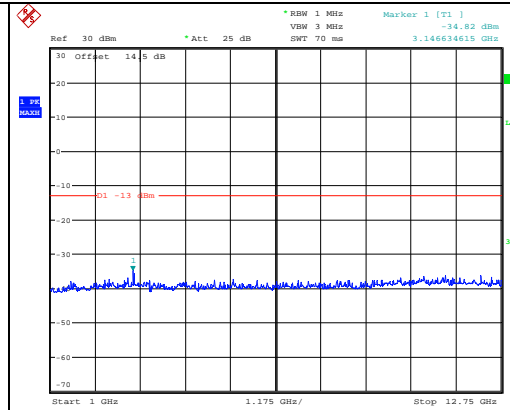
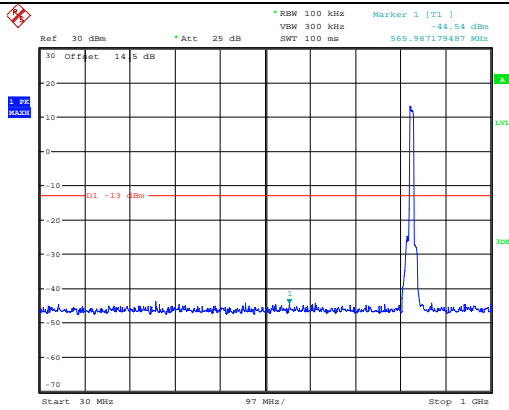
Channel	5MHz Bandwidth QPSK	
Lowest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -22.71 dBm *VSW 300 kHz *SWT 100 ms 829.28800000 MHz</p> <p>Date: 8.JUL.2023 16:11:07</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -28.94 dBm *VSW 3 MHz *SWT 55 ms 3.142000000 GHz</p> <p>Date: 8.JUL.2023 16:11:20</p>
	Middle For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -44.18 dBm *VSW 300 kHz *SWT 100 ms 224.00000000 MHz</p> <p>Date: 8.JUL.2023 16:11:35</p>
Highest For 22H		<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -41.80 dBm *VSW 300 kHz *SWT 100 ms 718.70000000 MHz</p> <p>Date: 8.JUL.2023 16:12:06</p>

Spurious Emissions at Antenna Terminal

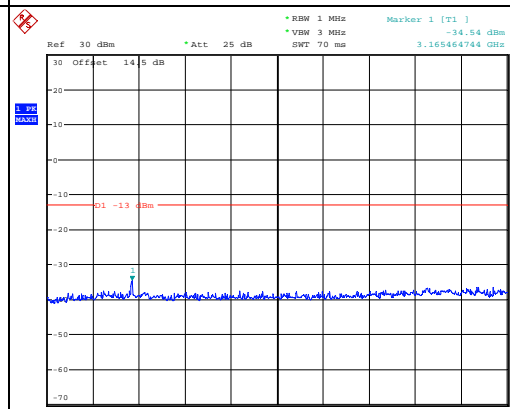
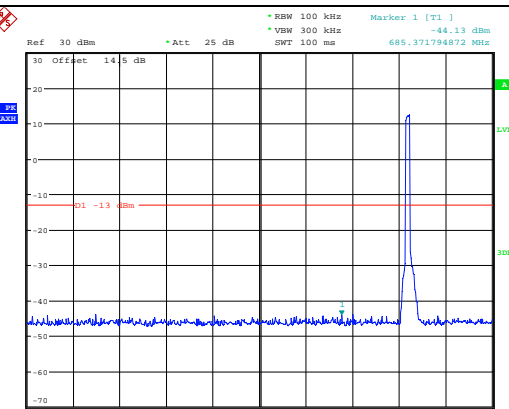
Channel

10MHz Bandwidth QPSK

Lowest For 90S



Cross Channel

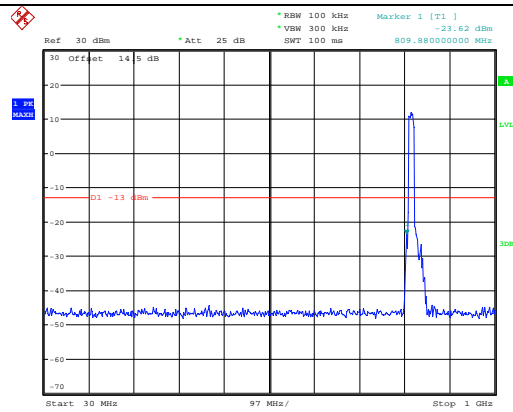


Spurious Emissions at Antenna Terminal

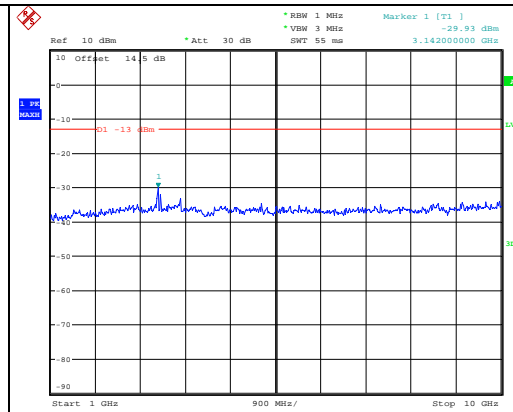
Channel

10MHz Bandwidth QPSK

Lowest For 22H

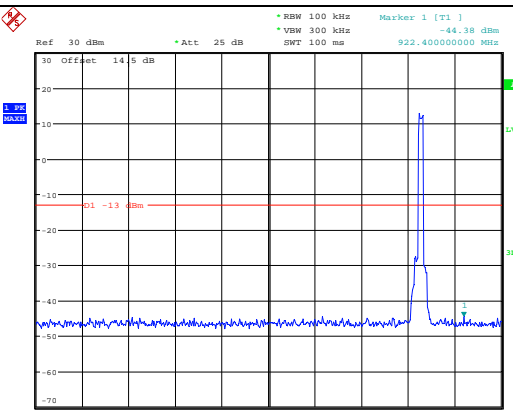


Date: 8.JUL.2023 16:12:58

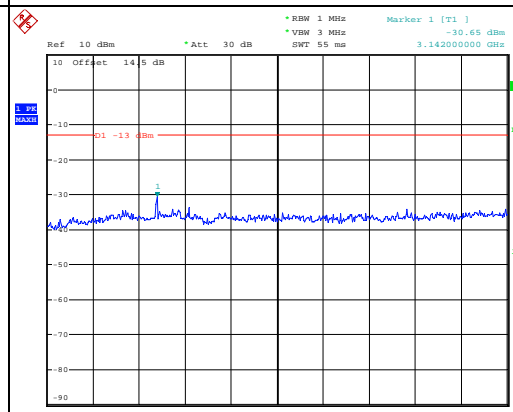


Date: 8.JUL.2023 16:13:11

Middle For 22H

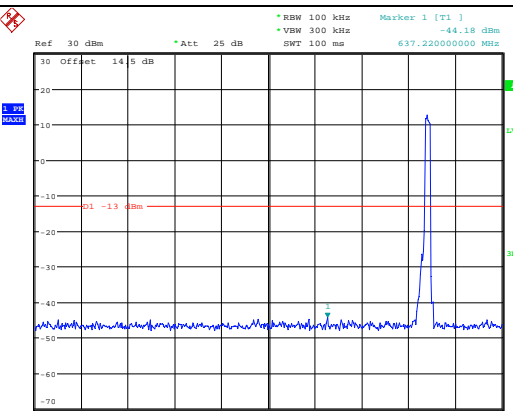


Date: 8.JUL.2023 16:13:29

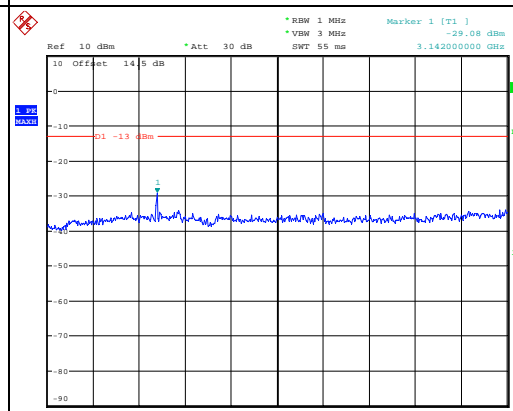


Date: 8.JUL.2023 16:13:42

Highest For 22H



Date: 8.JUL.2023 16:13:57



Date: 8.JUL.2023 16:14:10

Spurious Emissions at Antenna Terminal

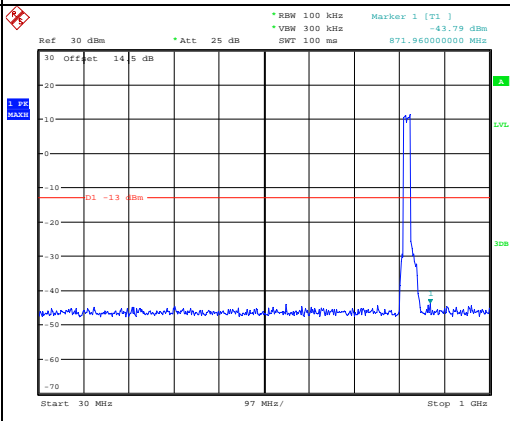
Channel	15MHz Bandwidth QPSK	
Lowest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -43.92 dBm VBW 300 kHz SWT 100 ms 524.016025641 MHz</p> <p>Center 515 MHz 97 MHz/ Span 970 MHz</p> <p>Date: 10.JUL.2023 13:03:14</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -35.08 dBm VBW 3 MHz SWT 70 ms 3.146634615 GHz</p> <p>Start 1 GHz 1.175 GHz/ Stop 12.75 GHz</p> <p>Date: 10.JUL.2023 13:02:26</p>
	Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -44.77 dBm VBW 300 kHz SWT 100 ms 662.054487379 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 10.JUL.2023 11:44:15</p>

Spurious Emissions at Antenna Terminal

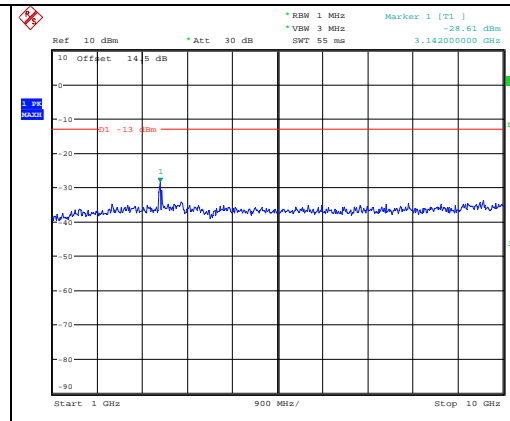
Channel

15MHz Bandwidth QPSK

Lowest For 22H

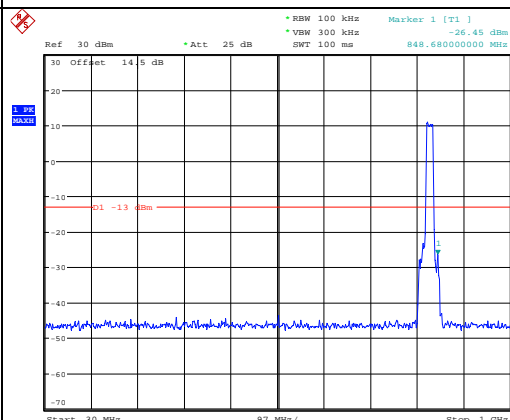


Date: 8.JUL.2023 16:25:28

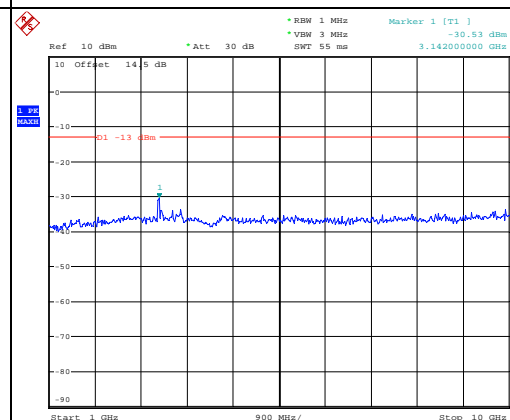


Date: 8.JUL.2023 16:25:41

Middle For 22H

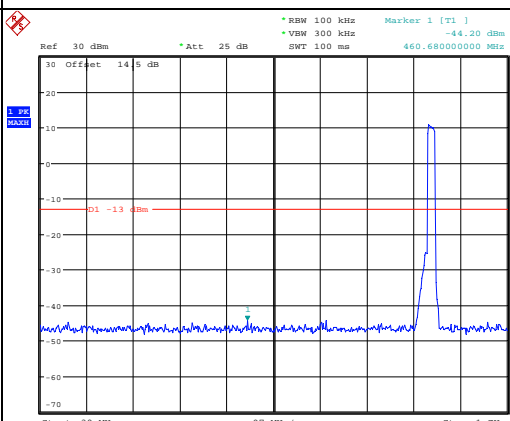


Date: 8.JUL.2023 16:25:59

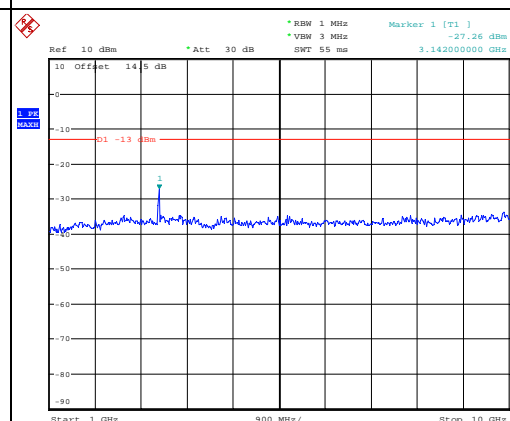


Date: 8.JUL.2023 16:26:12

Highest For 22H



Date: 8.JUL.2023 16:26:27

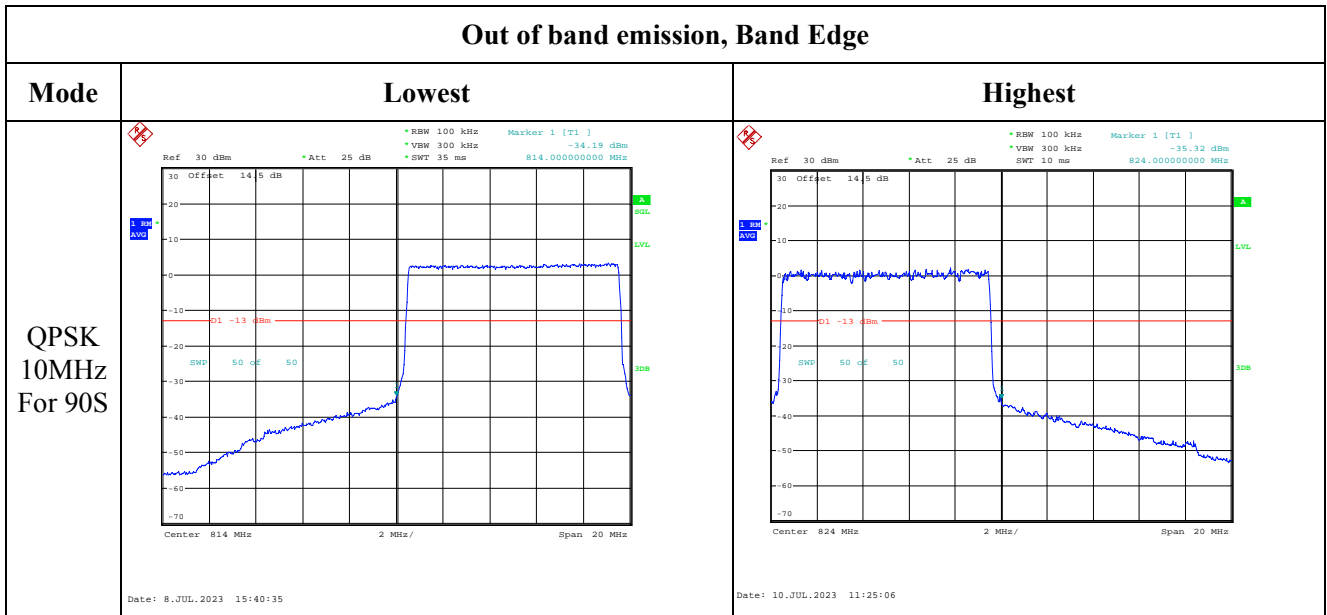


Date: 8.JUL.2023 16:26:40

Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz For 90S</p>	<p>Date: 8.JUL.2023 15:37:05</p>	<p>Date: 10.JUL.2023 11:05:20</p>
<p>QPSK 3MHz For 90S</p>	<p>Date: 8.JUL.2023 15:38:22</p>	<p>Date: 10.JUL.2023 11:07:56</p>
<p>QPSK 5MHz For 90S</p>	<p>Date: 8.JUL.2023 15:39:27</p>	<p>Date: 10.JUL.2023 11:11:57</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz For 22H</p>		
<p>QPSK 3MHz For 22H</p>		
<p>QPSK 5MHz For 22H</p>		

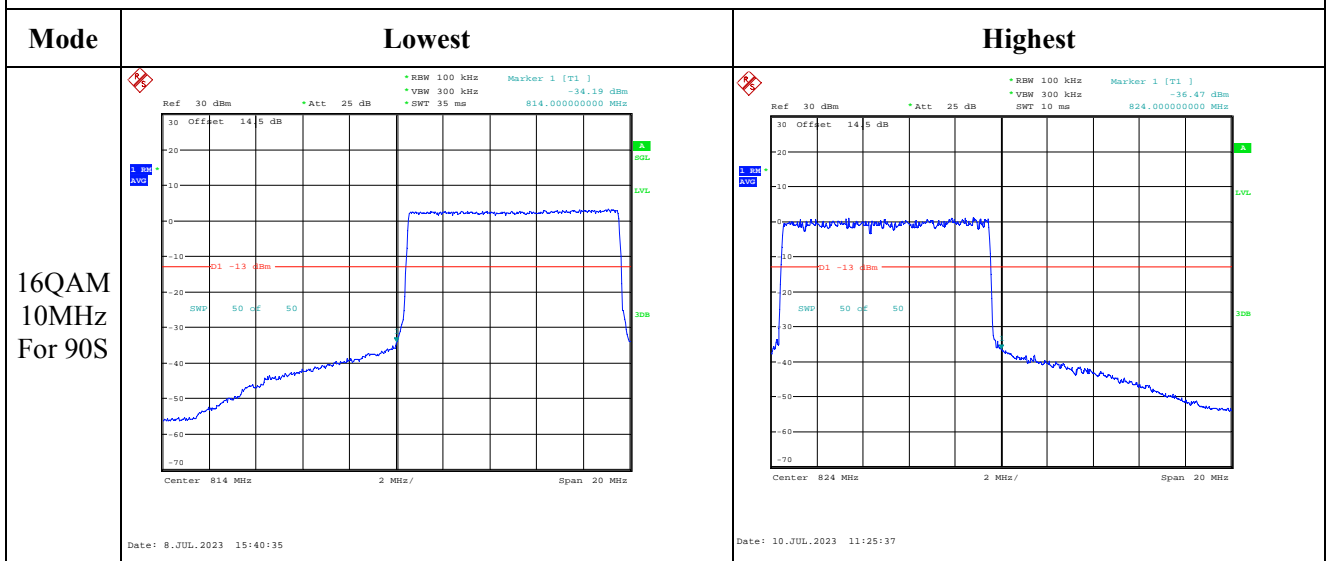
Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 10MHz For 22H</p>		
<p>QPSK 15MHz For 22H</p>		
<p>QPSK 15MHz Across 90S and 22H</p>		

Out of band emission, Band Edge

Mode	Lowest	Highest
<p>16QAM 1.4MHz For 90S</p>	<p>Date: 8.JUL.2023 15:37:14</p>	<p>Date: 10.JUL.2023 11:03:26</p>
<p>16QAM 3MHz For 90S</p>	<p>Date: 8.JUL.2023 15:38:22</p>	<p>Date: 10.JUL.2023 11:08:36</p>
<p>16QAM 5MHz For 90S</p>	<p>Date: 8.JUL.2023 15:39:27</p>	<p>Date: 10.JUL.2023 11:11:25</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
<p>16QAM 1.4MHz For 22H</p>	<p>Date: 8.JUL.2023 15:37:14</p>	<p>Date: 8.JUL.2023 15:37:34</p>
<p>16QAM 3MHz For 22H</p>	<p>Date: 8.JUL.2023 15:38:31</p>	<p>Date: 8.JUL.2023 15:38:53</p>
<p>16QAM 5MHz For 22H</p>	<p>Date: 8.JUL.2023 15:39:37</p>	<p>Date: 8.JUL.2023 15:39:59</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz For 22H		
16QAM 15MHz For 22H		
16QAM 15MHz Across 90S and 22H		

4.13 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	26YR-1	Test Date:	2023/6/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2498.5	2593	2687.5
10MHz	2501	2593	2685
15MHz	2503.5	2593	2682.5
20MHz	2506	2593	2680

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	16.85	18.49	16.39	18.81	33
	RB1#13	17	18.57	16.45		
	RB1#24	16.98	18.49	16.31		
	RB15#0	16.95	18.61	16.44		
	RB15#10	16.92	18.57	16.38		
	RB25#0	16.94	18.56	16.4		
5MHz 16QAM	RB1#0	17.06	18.49	16.42	18.79	33
	RB1#13	17.22	18.58	16.48		
	RB1#24	17.21	18.48	16.33		
	RB15#0	16.97	18.5	16.44		
	RB15#10	17.01	18.53	16.39		
	RB25#0	16.91	18.59	16.42		
10MHz QPSK	RB1#0	16.95	18.14	17.22	18.61	33
	RB1#25	17.37	18.41	17.35		
	RB1#49	17.16	18.14	16.98		
	RB25#0	16.99	18.19	17.19		
	RB25#25	17.13	18.22	17.06		
	RB50#0	17.04	18.19	17.13		
10MHz 16QAM	RB1#0	17.03	18.32	17.1	18.8	33
	RB1#25	17.44	18.6	17.24		
	RB1#49	17.24	18.29	16.85		
	RB25#0	17.05	18.18	17.22		
	RB25#25	17.17	18.19	17.1		
	RB50#0	17.06	18.17	17.12		
15MHz QPSK	RB1#0	16.92	18.96	16.45	19.28	33
	RB1#38	17.15	18.98	16.36		
	RB1#74	17.24	18.89	16.09		
	RB36#0	17.07	19.07	16.48		
	RB36#39	17.25	19.08	16.32		
	RB75#0	17.15	19.08	16.41		
15MHz 16QAM	RB1#0	17.1	19.09	16.38	19.34	33
	RB1#38	17.33	19.14	16.25		
	RB1#74	17.41	19.07	15.99		
	RB36#0	17.11	19.02	16.42		
	RB36#39	17.27	19.02	16.22		
	RB75#0	17.16	19.02	16.36		
20MHz QPSK	RB1#0	16.82	18.77	17.17	19.42	33
	RB1#50	17.49	19.22	17.33		
	RB1#99	17.26	18.76	16.67		

	RB50#0	17.03	18.96	17.26		
	RB50#50	17.29	18.98	16.99		
	RB100#0	17.17	18.97	17.12		
20MHz 16QAM	RB1#0	17.04	18.82	17.16	19.45	33
	RB1#50	17.67	19.25	17.33		
	RB1#99	17.49	18.82	16.66		
	RB50#0	17.04	18.95	17.33		
	RB50#50	17.3	18.97	17.03		
	RB100#0	17.17	18.99	17.13		

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	11.54	6.58	7.45	13
	RB100#0	10.56	9.74	7.38	13
20MHz 16QAM	RB1#0	8.98	10.54	6.59	13
	RB100#0	7.95	11.21	10.12	13

Result: **Pass**

FCC §2.1049, §27.53: Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.52	4.52	4.52	4.92	5.16	4.98
5MHz 16QAM	4.52	4.52	4.52	5.38	5.02	5.14
10MHz QPSK	8.96	8.96	8.96	9.52	9.92	9.64
10MHz 16QAM	8.96	8.96	8.96	9.64	9.68	9.48
15MHz QPSK	13.50	13.62	13.50	14.94	15.06	14.76
15MHz 16QAM	13.56	13.56	13.62	16.14	16.68	16.14
20MHz QPSK	18.00	18.00	17.92	19.52	19.36	19.68
20MHz 16QAM	18.00	17.92	17.92	19.52	21.68	19.28

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

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

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

FCC §2.1051, § 27.53:Out of band emission, Band Edge

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

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2497.029	2496.00	2688.960	2690
	-20	3.8	2497.034	2496.00	2688.981	2690
	-10	3.8	2497.022	2496.00	2688.986	2690
	0	3.8	2497.019	2496.00	2688.977	2690
	10	3.8	2497.040	2496.00	2688.975	2690
	20	3.8	2497.040	2496.00	2688.960	2690
	30	3.8	2497.017	2496.00	2688.961	2690
	40	3.8	2497.031	2496.00	2688.985	2690
	50	3.8	2497.040	2496.00	2688.970	2690
Frequency Stability vs. Voltage	20	3.65	2497.036	2496.00	2688.972	2690
	20	4.35	2497.013	2496.00	2688.970	2690
					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	3.8	2497.941	2496.00	2688.979	2690
	-20	3.8	2497.941	2496.00	2688.964	2690
	-10	3.8	2497.951	2496.00	2688.983	2690
	0	3.8	2497.937	2496.00	2688.965	2690
	10	3.8	2497.937	2496.00	2688.981	2690
	20	3.8	2497.040	2496.00	2688.960	2690
	30	3.8	2497.955	2496.00	2688.976	2690
	40	3.8	2497.956	2496.00	2688.975	2690
	50	3.8	2497.941	2496.00	2688.975	2690
Frequency Stability vs. Voltage	20	3.65	2497.939	2496.00	2688.972	2690
	20	4.35	2497.938	2496.00	2688.964	2690
					Result:	Pass

Test Plots (Note: The 14.5 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>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 0.74 dB *VBW 300 kHz *SWT 10 ms 9.520000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.65 dBm Temp 1 [T1 OSW] 2.4952000 GHz Temp 2 [T1 OSW] 2.4965200 GHz D1 12.24 dBm D2 -13 dBm Center 2.501 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:13:53</p>	<p>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] -0.93 dB *VBW 300 kHz *SWT 10 ms 9.680000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.86 dBm Temp 1 [T1 OSW] 2.4961600 GHz Temp 2 [T1 OSW] 2.4965200 GHz D1 11.89 dBm D2 -14.33 dBm Center 2.501 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:14:14</p>
Middle	<p>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 1.18 dB *VBW 300 kHz *SWT 10 ms 9.520000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.38 dBm Temp 1 [T1 OSW] 2.5882800 GHz Temp 2 [T1 OSW] 2.5885200 GHz D1 15.11 dBm D2 -10.87 dBm Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:14:36</p>	<p>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 3.29 dB *VBW 300 kHz *SWT 10 ms 9.640000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.09 dBm Temp 1 [T1 OSW] 2.5882000 GHz Temp 2 [T1 OSW] 2.5885200 GHz D1 15.07 dBm D2 -10.93 dBm Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:15:03</p>
Highest	<p>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 0.69 dB *VBW 300 kHz *SWT 10 ms 9.640000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.82 dBm Temp 1 [T1 OSW] 2.6805200 GHz Temp 2 [T1 OSW] 2.6805200 GHz D1 13.54 dBm D2 -13.47 dBm Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:15:52</p>	<p>Ref 40 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] -1.01 dB *VBW 300 kHz *SWT 10 ms 9.480000000 MHz OBW 8.960000000 MHz Marker 1 [T1] 1.18 dBm Temp 1 [T1 OSW] 2.6802800 GHz Temp 2 [T1 OSW] 2.6805200 GHz D1 13.9 dBm D2 -12.0 dBm Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 10:15:56</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.02 dB *VBW 1 MHz *VMW 1 MHz 15.96000000 MHz SWT 2.5 ms Center 2.5035 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:27:13</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.38 dB *VBW 1 MHz *VMW 1 MHz 16.68000000 MHz SWT 2.5 ms Center 2.5035 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:27:46</p>
Middle	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.53 dB *VBW 1 MHz *VMW 1 MHz 14.94000000 MHz SWT 2.5 ms Center 2.593 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:28:16</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.61 dB *VBW 1 MHz *VMW 1 MHz 16.34000000 MHz SWT 2.5 ms Center 2.593 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:28:49</p>
Highest	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.41 dB *VBW 1 MHz *VMW 1 MHz 14.76000000 MHz SWT 2.5 ms Center 2.6825 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:29:16</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.43 dB *VBW 1 MHz *VMW 1 MHz 16.14000000 MHz SWT 2.5 ms Center 2.6825 GHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 10:29:59</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -0.12 dB *VMW 1 MHz 19.520000000 MHz 40 Offset 14.5 dB OSW 18.00000000 MHz Marker 1 [T1] -14.37 dBm Temp 1 [T1 OSW] 2.49616000 GHz Temp 2 [T1 OSW] 2.49704000 GHz Temp 3 [T1 OSW] 2.51504000 GHz Center 2.506 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:35:44</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -1.48 dB *VMW 1 MHz 19.520000000 MHz 40 Offset 14.5 dB OSW 18.00000000 MHz Marker 1 [T1] -14.46 dBm Temp 1 [T1 OSW] 2.49624000 GHz Temp 2 [T1 OSW] 2.49704000 GHz Temp 3 [T1 OSW] 2.51504000 GHz Center 2.506 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:36:18</p>
Middle	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -0.84 dB *VMW 1 MHz 19.360000000 MHz 40 Offset 14.5 dB OSW 18.00000000 MHz Marker 1 [T1] -17.89 dBm Temp 1 [T1 OSW] 2.58340000 GHz Temp 2 [T1 OSW] 2.58404000 GHz Temp 3 [T1 OSW] 2.60204000 GHz Center 2.593 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:36:48</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -0.81 dB *VMW 1 MHz 21.680000000 MHz 40 Offset 14.5 dB OSW 17.92000000 MHz Marker 1 [T1] -17.31 dBm Temp 1 [T1 OSW] 2.58188000 GHz Temp 2 [T1 OSW] 2.58404000 GHz Temp 3 [T1 OSW] 2.60204000 GHz Center 2.593 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:37:18</p>
Highest	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -2.20 dB *VMW 1 MHz 19.680000000 MHz 40 Offset 14.5 dB OSW 17.92000000 MHz Marker 1 [T1] -16.27 dBm Temp 1 [T1 OSW] 2.67008000 GHz Temp 2 [T1 OSW] 2.67104000 GHz Temp 3 [T1 OSW] 2.68896000 GHz Center 2.68 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:37:54</p>	<p>Ref 40 dBm *Att 35 dB *RBW 300 kHz Delta 1 [T1] -2.30 dB *VMW 1 MHz 19.280000000 MHz 40 Offset 14.5 dB OSW 17.92000000 MHz Marker 1 [T1] -16.59 dBm Temp 1 [T1 OSW] 2.67040000 GHz Temp 2 [T1 OSW] 2.67104000 GHz Temp 3 [T1 OSW] 2.68896000 GHz Center 2.68 GHz 4 MHz/ Span 40 MHz Date: 29.JUN.2023 10:38:21</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.44 dBm VSW 300 kHz SWT 100 ms 955.380000000 MHz</p> <p>Date: 29.JUN.2023 11:37:04</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.45 dBm VSW 3 MHz SWT 150 ms 26.398000000 GHz</p> <p>Date: 29.JUN.2023 11:37:17</p>
Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -42.90 dBm VSW 300 kHz SWT 100 ms 280.260000000 MHz</p> <p>Date: 29.JUN.2023 11:37:35</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -31.57 dBm VSW 3 MHz SWT 150 ms 26.398000000 GHz</p> <p>Date: 29.JUN.2023 11:37:48</p>
Highest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -44.62 dBm VSW 300 kHz SWT 100 ms 373.980000000 MHz</p> <p>Date: 29.JUN.2023 11:38:03</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.23 dBm VSW 3 MHz SWT 150 ms 26.347000000 GHz</p> <p>Date: 29.JUN.2023 11:38:16</p>

Spurious Emissions at Antenna Terminal

Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -47.20 dBm VSW 300 kHz SWT 100 ms 452.92000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 29.JUN.2023 11:38:56</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.55 dBm VSW 3 MHz SWT 150 ms 25.021000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 29.JUN.2023 11:39:09</p>
	Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -44.74 dBm VSW 300 kHz SWT 100 ms 278.320000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 29.JUN.2023 11:39:28</p>
Highest		<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -45.61 dBm VSW 300 kHz SWT 100 ms 373.380000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 29.JUN.2023 11:40:00</p>

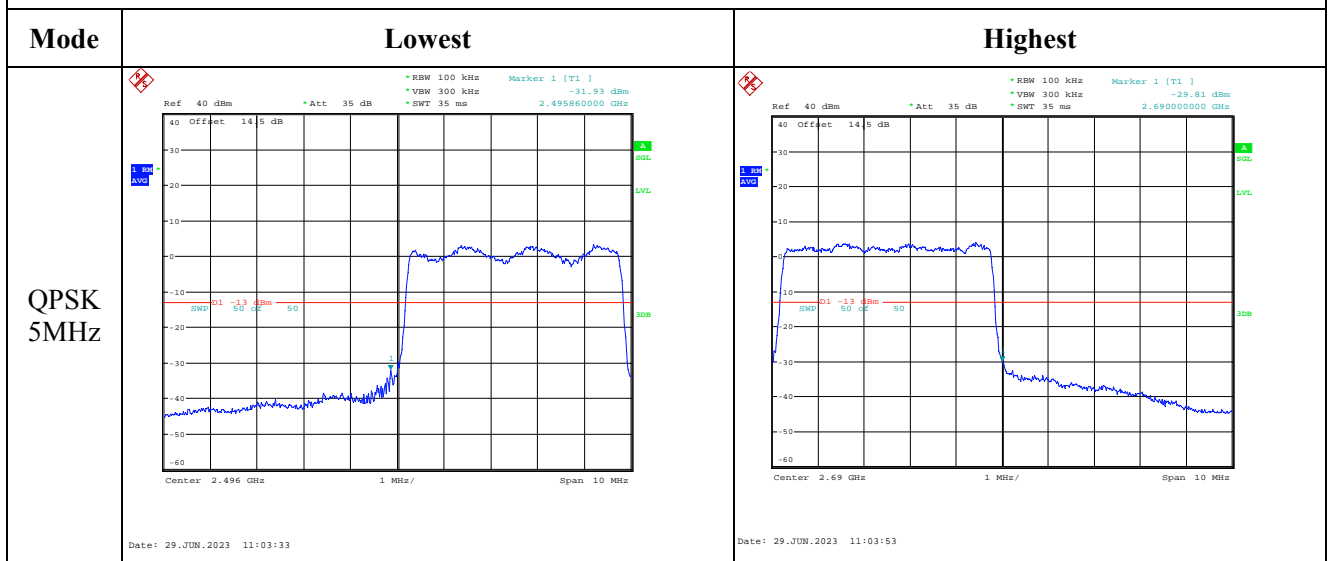
Spurious Emissions at Antenna Terminal

Channel	15MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.37 dBm VSW 300 kHz SWT 100 ms 825.400000000 MHz</p> <p>Date: 29.JUN.2023 11:49:24</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.70 dBm VSW 3 MHz SWT 150 ms 25.123000000 GHz</p> <p>Date: 29.JUN.2023 11:49:36</p>
Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.55 dBm VSW 300 kHz SWT 100 ms 901.060000000 MHz</p> <p>Date: 29.JUN.2023 11:49:56</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.35 dBm VSW 3 MHz SWT 150 ms 26.296000000 GHz</p> <p>Date: 29.JUN.2023 11:50:09</p>
Highest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.54 dBm VSW 300 kHz SWT 100 ms 809.880000000 MHz</p> <p>Date: 29.JUN.2023 11:50:29</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -31.97 dBm VSW 3 MHz SWT 150 ms 26.296000000 GHz</p> <p>Date: 29.JUN.2023 11:50:39</p>

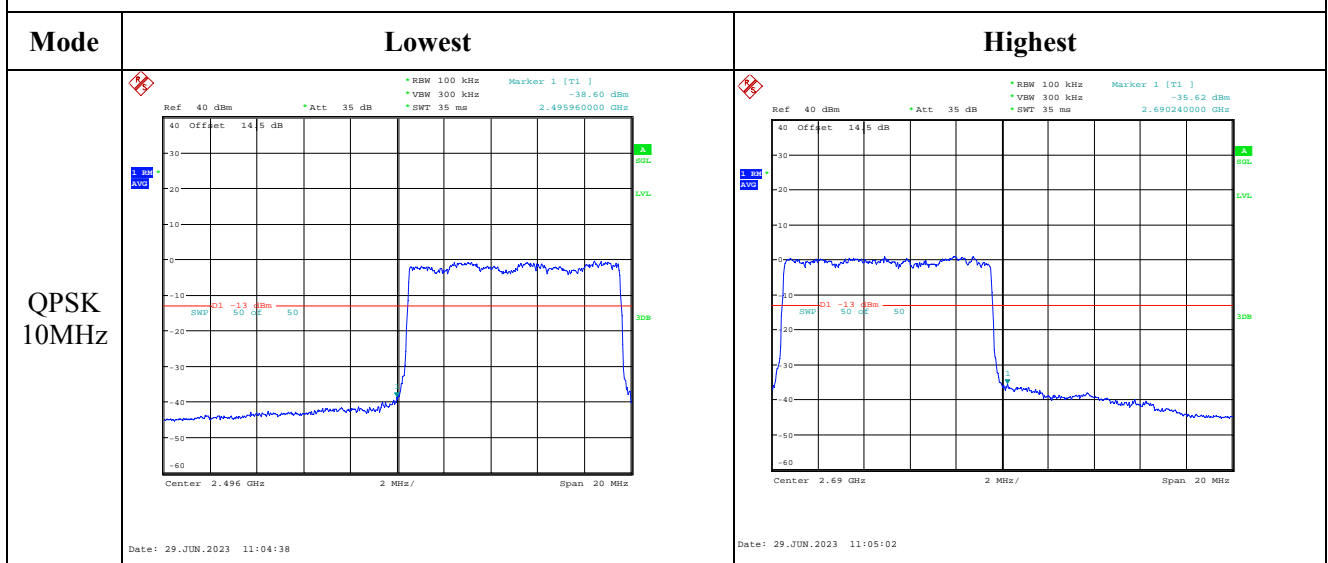
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm *Att 30 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -46.30 dBm Start 30 MHz 97 MHz/ Stop 1 GHz Date: 29.JUN.2023 11:52:13</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 150 ms Marker 1 [T1] -32.69 dBm Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 29.JUN.2023 11:52:27</p>
Middle	<p>Ref 0 dBm *Att 30 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -46.50 dBm Start 30 MHz 97 MHz/ Stop 1 GHz Date: 29.JUN.2023 11:52:48</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 150 ms Marker 1 [T1] -32.39 dBm Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 29.JUN.2023 11:53:01</p>
Highest	<p>Ref 0 dBm *Att 30 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -46.69 dBm Start 30 MHz 97 MHz/ Stop 1 GHz Date: 29.JUN.2023 11:53:21</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz *VSW 3 MHz *SWT 150 ms Marker 1 [T1] -32.30 dBm Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 29.JUN.2023 11:53:30</p>

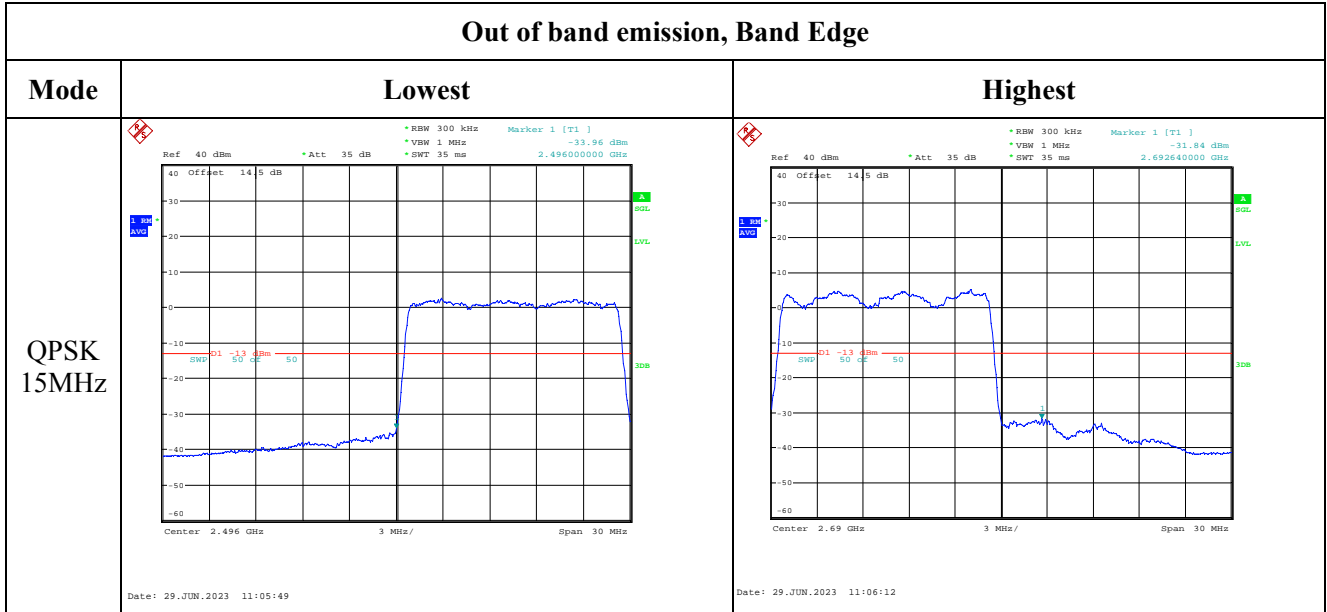
Out of band emission, Band Edge



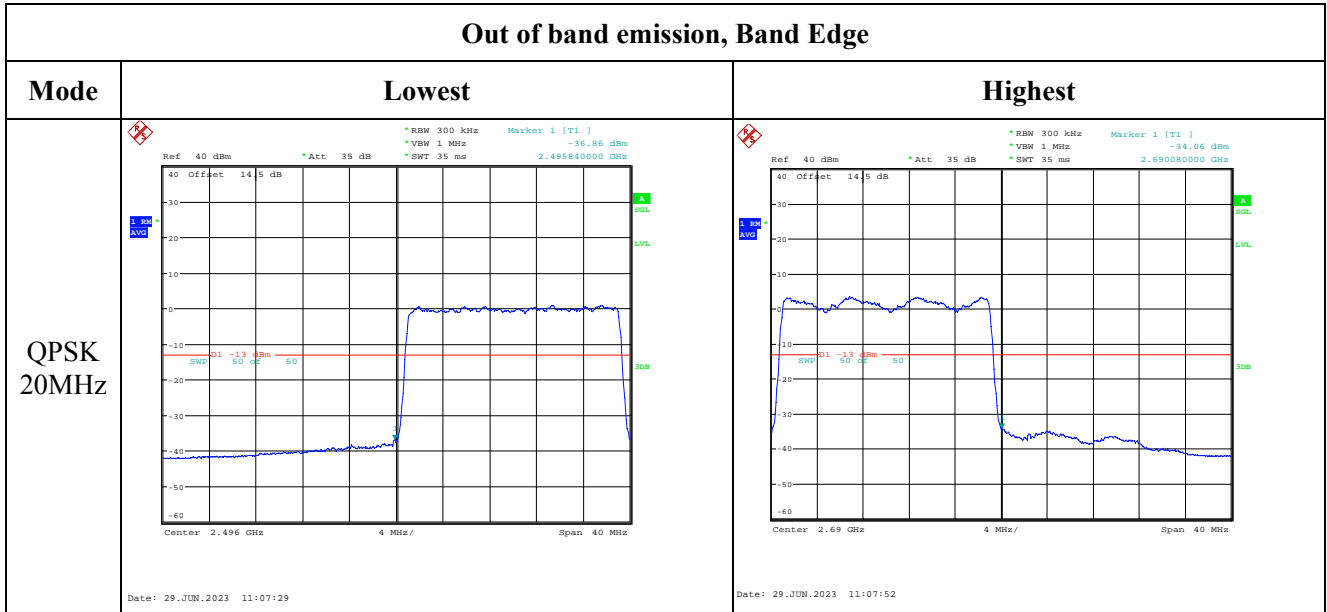
Out of band emission, Band Edge



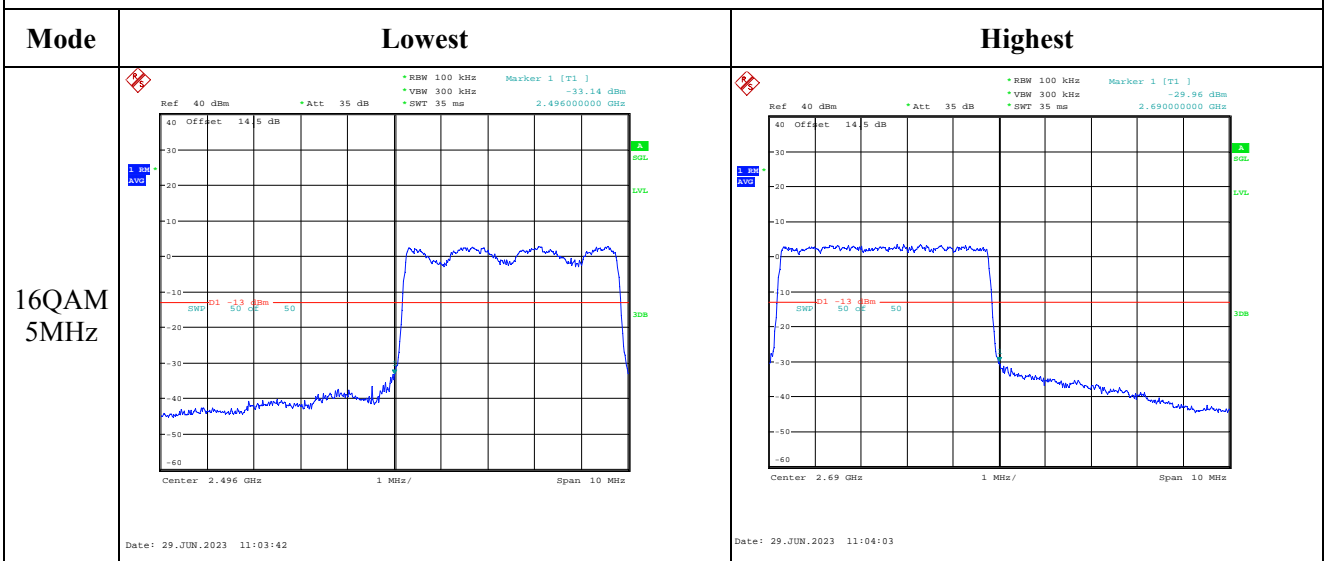
Out of band emission, Band Edge



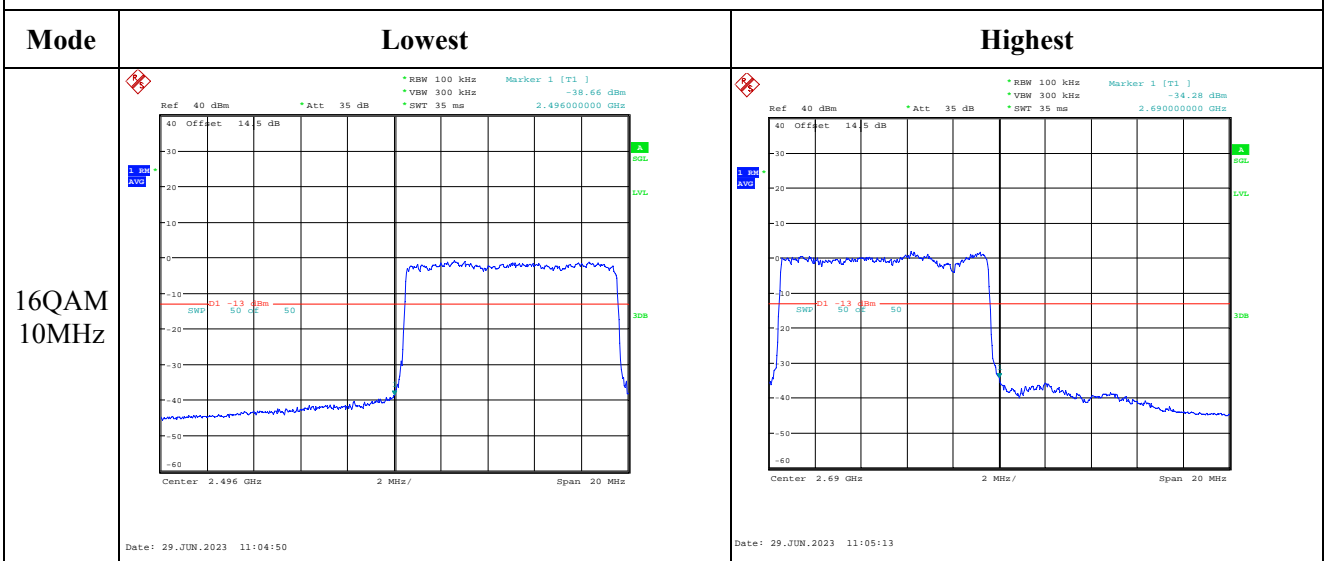
Out of band emission, Band Edge



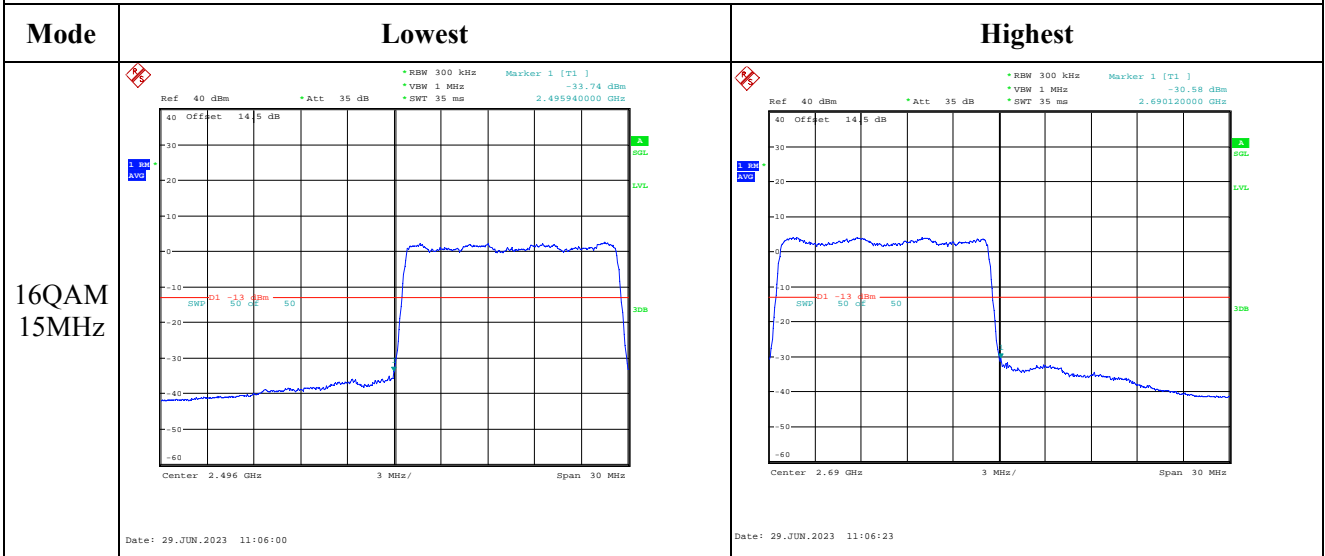
Out of band emission, Band Edge



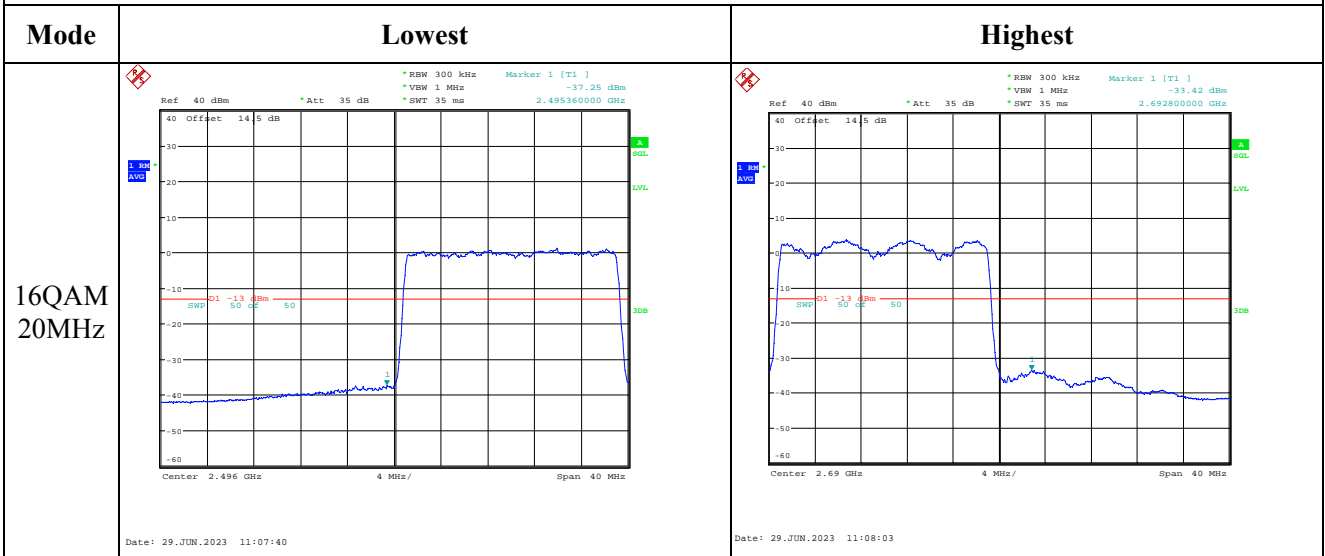
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.14 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/6/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:

FCC§2.1046;§ 27.50(d)(4)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	21.39	21.19	20.75	20.41	30
	RB1#3	21.61	21.39	20.9		
	RB1#5	21.35	21.18	20.73		
	RB3#0	21.43	21.14	20.71		
	RB3#3	21.45	21.13	20.69		
	RB6#0	20.48	20.27	19.86		
1.4MHz 16QAM	RB1#0	20.38	20.15	19.73	19.4	30
	RB1#3	20.6	20.28	19.89		
	RB1#5	20.42	20.08	19.69		
	RB3#0	20.52	20.25	19.48		
	RB3#3	20.5	20.28	19.52		
	RB6#0	19.38	19.23	18.76		
3MHz QPSK	RB1#0	21.93	20.62	20.41	20.73	30
	RB1#8	21.87	20.64	20.43		
	RB1#14	21.61	20.61	20.38		
	RB6#0	20.73	19.55	19.33		
	RB6#9	20.38	19.58	19.37		
	RB15#0	20.42	19.56	19.27		
3MHz 16QAM	RB1#0	20.54	19.55	19.65	19.35	30
	RB1#8	20.55	19.54	19.58		
	RB1#14	20.51	19.48	19.57		
	RB6#0	19.4	18.46	18.32		
	RB6#9	19.39	18.47	18.26		
	RB15#0	19.35	18.52	18.23		
5MHz QPSK	RB1#0	21.33	20.79	20.07	20.21	30
	RB1#13	21.41	20.91	20.28		
	RB1#24	21.21	20.72	20.16		
	RB15#0	20.49	19.79	19.11		
	RB15#10	20.36	19.92	19.21		
	RB25#0	20.4	19.81	19.13		
5MHz 16QAM	RB1#0	20.39	19.6	19.28	19.3	30
	RB1#13	20.5	19.74	19.42		
	RB1#24	20.34	19.59	19.26		
	RB15#0	19.48	18.8	18.1		
	RB15#10	19.4	18.83	18.09		
	RB25#0	19.45	18.84	18.13		
10MHz QPSK	RB1#0	21.92	21.08	20.86	20.72	30
	RB1#25	21.91	21.28	20.89		
	RB1#49	21.39	21.11	20.92		

	RB25#0	21.02	20.05	19.84		
	RB25#25	20.3	20.18	19.88		
	RB50#0	20.46	20.09	19.89		
10MHz 16QAM	RB1#0	20.87	20.24	19.94	19.91	30
	RB1#25	21.11	20.32	19.91		
	RB1#49	20.91	20.14	19.7		
	RB25#0	19.65	19.02	19.04		
	RB25#25	19.42	19.09	18.95		
	RB50#0	19.51	19.05	18.92		
15MHz QPSK	RB1#0	21.33	20.2	20.65	20.13	30
	RB1#38	21.13	20.39	20.36		
	RB1#74	20.86	20.17	20.56		
	RB36#0	20.39	19.4	19.76		
	RB36#39	20.1	19.57	19.83		
	RB75#0	20.32	19.41	19.83		
15MHz 16QAM	RB1#0	20.73	19.73	19.96	19.57	30
	RB1#38	20.77	19.81	19.76		
	RB1#74	20.53	19.68	19.56		
	RB36#0	19.44	18.32	18.79		
	RB36#39	19.15	18.36	18.71		
	RB75#0	19.38	18.37	18.85		
20MHz QPSK	RB1#0	21.17	20.86	20.04	20.12	30
	RB1#50	20.96	21.32	19.66		
	RB1#99	20.66	20.88	19.83		
	RB50#0	20.5	19.95	19.35		
	RB50#50	20.23	20.07	19.07		
	RB100#0	20.38	20.02	19.23		
20MHz 16QAM	RB1#0	20.7	20.25	19.26	19.74	30
	RB1#50	20.94	20.53	19.47		
	RB1#99	20.43	20.15	18.84		
	RB50#0	19.53	18.91	18.48		
	RB50#50	19.35	19.05	18.12		
	RB100#0	19.49	19.02	18.31		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:

Pass

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	9.9	10.32	9.94	13
	RB100#0	6.44	6.51	6.51	13
20MHz 16QAM	RB1#0	9.04	9.97	9.65	13
	RB100#0	7.21	7.12	7.24	13
				Result:	Pass

FCC §2.1049, §27.53: Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.104	1.104	1.11	1.29	1.308	1.35
1.4MHz 16QAM	1.098	1.104	1.104	1.296	1.314	1.308
3MHz QPSK	2.687	2.687	2.7	2.892	2.88	2.88
3MHz 16QAM	2.687	2.676	2.687	2.88	2.88	2.88
5MHz QPSK	4.52	4.54	4.54	5.2	5.18	5.22
5MHz 16QAM	4.54	4.52	4.52	5.16	5.16	5.12
10MHz QPSK	9	8.96	9	10.04	9.84	9.84
10MHz 16QAM	9	8.96	9	9.92	9.76	9.8
15MHz QPSK	13.68	13.44	13.56	15.3	14.94	14.94
15MHz 16QAM	13.62	13.44	13.62	15.24	15.12	15.12
20MHz QPSK	18.2	17.92	18.08	31.79	19.44	19.84
20MHz 16QAM	18.33	17.92	18.08	28.69	20	23.44

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

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

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

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.009	1710.00	1779.142	1780
	-20	3.8	1711.018	1710.00	1779.137	1780
	-10	3.8	1711.015	1710.00	1779.147	1780
	0	3.8	1711.022	1710.00	1779.138	1780
	10	3.8	1711.029	1710.00	1779.136	1780
	20	3.8	1711.030	1710.00	1779.120	1780
	30	3.8	1711.002	1710.00	1779.134	1780
	40	3.8	1711.025	1710.00	1779.127	1780
	50	3.8	1711.020	1710.00	1779.142	1780
Frequency Stability vs. Voltage	20	3.65	1711.019	1710.00	1779.120	1780
	20	4.35	1711.027	1710.00	1779.127	1780
					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	3.8	1711.014	1710.00	1779.134	1780
	-20	3.8	1711.002	1710.00	1779.140	1780
	-10	3.8	1711.012	1710.00	1779.130	1780
	0	3.8	1711.011	1710.00	1779.135	1780
	10	3.8	1711.008	1710.00	1779.134	1780
	20	3.8	1711.030	1710.00	1779.120	1780
	30	3.8	1711.007	1710.00	1779.146	1780
	40	3.8	1711.014	1710.00	1779.137	1780
	50	3.8	1711.006	1710.00	1779.136	1780
Frequency Stability vs. Voltage	20	3.65	1711.006	1710.00	1779.146	1780
	20	4.35	1711.013	1710.00	1779.124	1780
					Result:	Pass

Test Plots(Note: The 14.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.45 dB *VSW 100 kHz *SWT 15 ms 1.290000000 MHz OSW 1.104000000 MHz Marker 1 [T1] -11.58 dBm 1.710040000 GHz Temp 1 [T1 OSW] 1.710140000 GHz Temp 2 [T1 OSW] 1.711250000 GHz</p> <p>Center 1.7107 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:13:04</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.09 dB *VSW 100 kHz *SWT 15 ms 1.296000000 MHz OSW 1.099000000 MHz Marker 1 [T1] -11.82 dBm 1.710040000 GHz Temp 1 [T1 OSW] 1.710150000 GHz Temp 2 [T1 OSW] 1.711250000 GHz</p> <p>Center 1.7107 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:13:27</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.96 dB *VSW 100 kHz *SWT 15 ms 1.308000000 MHz OSW 1.104000000 MHz Marker 1 [T1] -11.62 dBm 1.744350000 GHz Temp 1 [T1 OSW] 1.744440000 GHz Temp 2 [T1 OSW] 1.745550000 GHz</p> <p>Center 1.745 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:13:48</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.74 dB *VSW 100 kHz *SWT 15 ms 1.314000000 MHz OSW 1.104000000 MHz Marker 1 [T1] -11.66 dBm 1.744340000 GHz Temp 1 [T1 OSW] 1.744440000 GHz Temp 2 [T1 OSW] 1.745550000 GHz</p> <p>Center 1.745 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:14:08</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.43 dB *VSW 100 kHz *SWT 15 ms 1.350000000 MHz OSW 1.110000000 MHz Marker 1 [T1] -11.61 dBm 1.778630000 GHz Temp 1 [T1 OSW] 1.778740000 GHz Temp 2 [T1 OSW] 1.779850000 GHz</p> <p>Center 1.7793 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:14:28</p>	<p>Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.32 dB *VSW 100 kHz *SWT 15 ms 1.308000000 MHz OSW 1.104000000 MHz Marker 1 [T1] -11.66 dBm 1.778650000 GHz Temp 1 [T1 OSW] 1.778740000 GHz Temp 2 [T1 OSW] 1.779850000 GHz</p> <p>Center 1.7793 GHz 300 kHz/ Span 3 MHz Date: 25.JUN.2023 21:14:48</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>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.59 dB *VBW 1 MHz SWT 2.5 ms 15.300000000 MHz OSW 3.680000000 MHz Marker 1 [T1] 1.7174 GHz D1 11.44 dBm Temp 1 [T1 OSW] D2 -14.27 dBm Temp 2 [T1 OSW] Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:24:05</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.00 dB *VBW 1 MHz SWT 2.5 ms 15.240000000 MHz OSW 3.620000000 MHz Marker 1 [T1] 1.7172 GHz D1 10.64 dBm Temp 1 [T1 OSW] D2 -15.35 dBm Temp 2 [T1 OSW] Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:24:26</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.02 dB *VBW 1 MHz SWT 2.5 ms 14.940000000 MHz OSW 3.440000000 MHz Marker 1 [T1] 1.7444 GHz D1 11.78 dBm Temp 1 [T1 OSW] D2 -14.22 dBm Temp 2 [T1 OSW] Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:24:47</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.42 dB *VBW 1 MHz SWT 2.5 ms 15.120000000 MHz OSW 3.440000000 MHz Marker 1 [T1] 1.7444 GHz D1 10.54 dBm Temp 1 [T1 OSW] D2 -15.03 dBm Temp 2 [T1 OSW] Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:25:07</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.12 dB *VBW 1 MHz SWT 2.5 ms 14.940000000 MHz OSW 3.560000000 MHz Marker 1 [T1] 1.7726 GHz D1 12.14 dBm Temp 1 [T1 OSW] D2 -13.87 dBm Temp 2 [T1 OSW] Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:25:28</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.52 dB *VBW 1 MHz SWT 2.5 ms 15.120000000 MHz OSW 3.620000000 MHz Marker 1 [T1] 1.7726 GHz D1 11.85 dBm Temp 1 [T1 OSW] D2 -14.57 dBm Temp 2 [T1 OSW] Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 21:25:48</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.82 dB *VMW 1 MHz *SWT 2.5 ms 31.790128205 MHz OSW 16.20000000 MHz Marker 1 [T1] -1.52 dBm 1.71012333 GHz Temp 1 [T1 OSW] 1.711030000 GHz Temp 2 [T1 OSW] 1.729236000 GHz Center 1.72 GHz 6.5 MHz/ Span 65 MHz Date: 25.JUN.2023 21:40:41</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.44 dB *VMW 1 MHz *SWT 2.5 ms 28.694294872 MHz OSW 16.33000000 MHz Marker 1 [T1] -1.91 dBm 1.71009167 GHz Temp 1 [T1 OSW] 1.711030000 GHz Temp 2 [T1 OSW] 1.729366000 GHz Center 1.72 GHz 6.5 MHz/ Span 65 MHz Date: 25.JUN.2023 21:44:15</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.36 dB *VMW 1 MHz *SWT 2.5 ms 19.440000000 MHz OSW 17.92000000 MHz Marker 1 [T1] -1.76 dBm 1.73524000 GHz Temp 1 [T1 OSW] 1.736040000 GHz Temp 2 [T1 OSW] 1.753960000 GHz Center 1.745 GHz 4 MHz/ Span 40 MHz Date: 25.JUN.2023 21:27:22</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -2.74 dB *VMW 1 MHz *SWT 2.5 ms 20.000000000 MHz OSW 17.92000000 MHz Marker 1 [T1] -1.91 dBm 1.73492000 GHz Temp 1 [T1 OSW] 1.736040000 GHz Temp 2 [T1 OSW] 1.753960000 GHz Center 1.745 GHz 4 MHz/ Span 40 MHz Date: 25.JUN.2023 21:27:46</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.54 dB *VMW 1 MHz *SWT 2.5 ms 19.840000000 MHz OSW 18.08000000 MHz Marker 1 [T1] -1.20 dBm 1.76032000 GHz Temp 1 [T1 OSW] 1.761040000 GHz Temp 2 [T1 OSW] 1.779120000 GHz Center 1.77 GHz 4 MHz/ Span 40 MHz Date: 25.JUN.2023 21:28:06</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.40 dB *VMW 1 MHz *SWT 2.5 ms 23.440000000 MHz OSW 18.08000000 MHz Marker 1 [T1] -1.83 dBm 1.76016000 GHz Temp 1 [T1 OSW] 1.761040000 GHz Temp 2 [T1 OSW] 1.779120000 GHz Center 1.77 GHz 4 MHz/ Span 40 MHz Date: 25.JUN.2023 21:28:26</p>

Spurious Emissions at Antenna Terminal

Channel	1.4MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.46 dBm *VSW 300 kHz *SWT 100 ms 875.840000000 MHz</p> <p>Date: 24.JUN.2023 10:26:15</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -33.96 dBm *VSW 3 MHz *SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:26:26</p>
Middle	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.58 dBm *VSW 300 kHz *SWT 100 ms 332.640000000 MHz</p> <p>Date: 24.JUN.2023 10:26:43</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -33.60 dBm *VSW 3 MHz *SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:26:54</p>
Highest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.23 dBm *VSW 300 kHz *SWT 100 ms 747.800000000 MHz</p> <p>Date: 24.JUN.2023 10:27:11</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -34.37 dBm *VSW 3 MHz *SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:27:22</p>

Spurious Emissions at Antenna Terminal

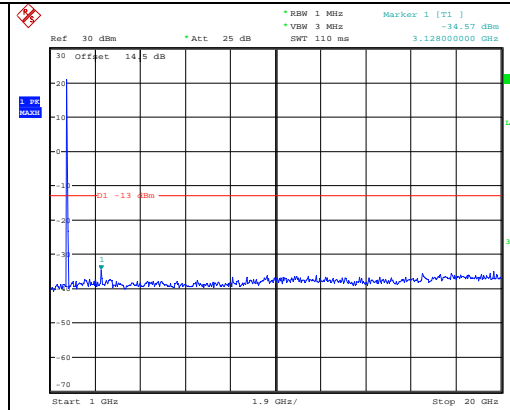
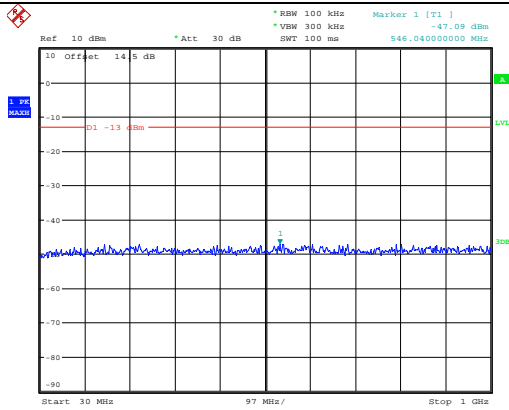
Channel	3MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -45.99 dBm VSW 300 kHz SWT 100 ms 782.720000000 MHz</p> <p>Date: 24.JUN.2023 10:28:01</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -35.19 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:28:13</p>
Middle	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.84 dBm VSW 300 kHz SWT 100 ms 350.100000000 MHz</p> <p>Date: 24.JUN.2023 10:28:30</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -35.37 dBm VSW 3 MHz SWT 110 ms 18.100000000 GHz</p> <p>Date: 24.JUN.2023 10:28:41</p>
Highest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.72 dBm VSW 300 kHz SWT 100 ms 513.060000000 MHz</p> <p>Date: 24.JUN.2023 10:28:55</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -33.40 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:29:06</p>

Spurious Emissions at Antenna Terminal

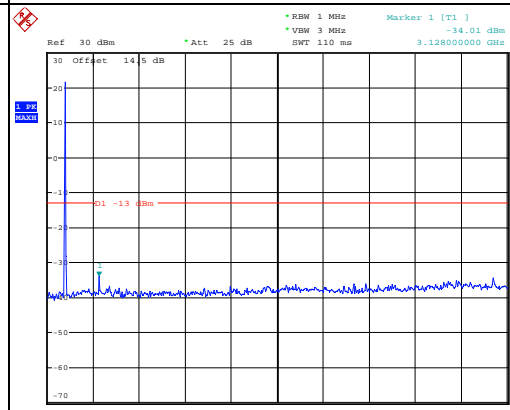
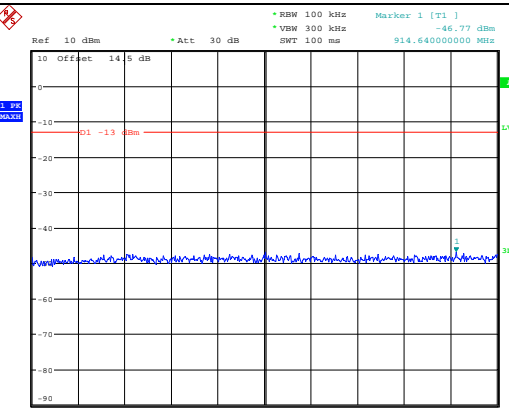
Channel

5MHz Bandwidth QPSK

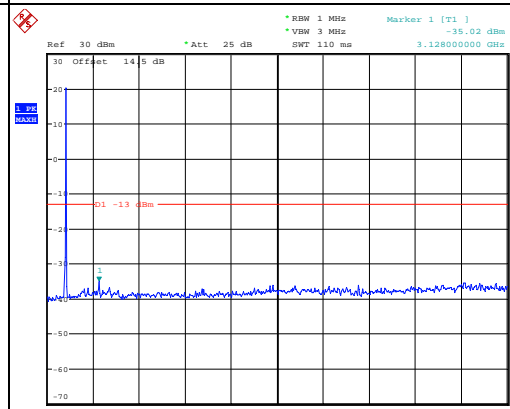
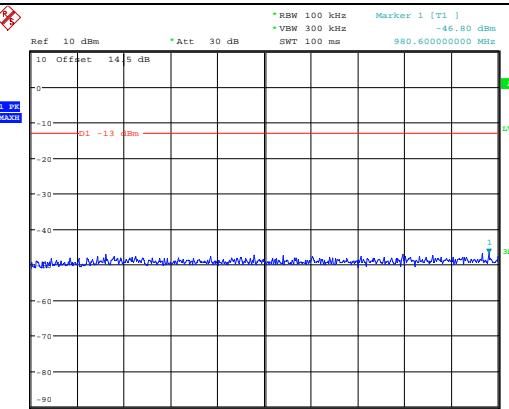
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

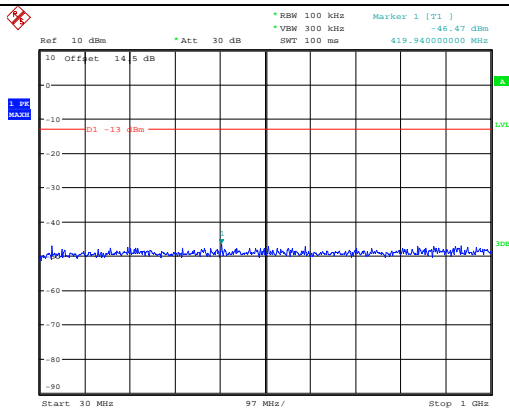
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] *VSW 300 kHz -46.78 dBm *SWT 100 ms 989.368000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 24.JUN.2023 10:31:28</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] *VSW 3 MHz -34.95 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 24.JUN.2023 10:31:39</p>
Middle	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] *VSW 300 kHz -46.81 dBm *SWT 100 ms 373.380000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 24.JUN.2023 10:31:53</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] *VSW 3 MHz -35.15 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 24.JUN.2023 10:32:04</p>
Highest	<p>Ref 10 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] *VSW 300 kHz -46.17 dBm *SWT 100 ms 986.420000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 24.JUN.2023 10:32:18</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] *VSW 3 MHz -32.81 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 24.JUN.2023 10:32:29</p>

Spurious Emissions at Antenna Terminal

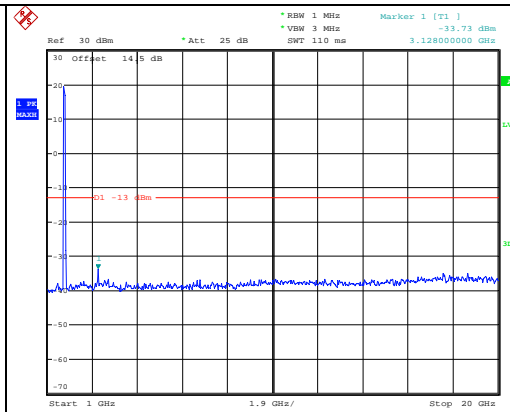
Channel

15MHz Bandwidth QPSK

Lowest

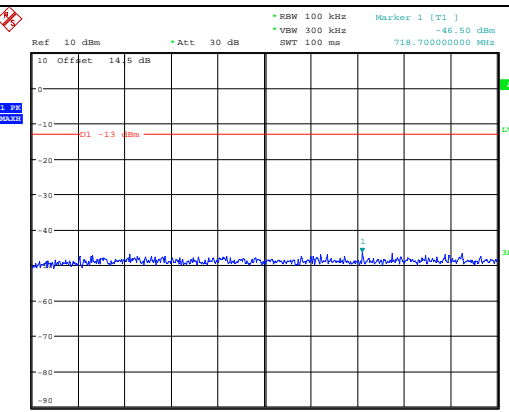


Date: 24.JUN.2023 10:33:17

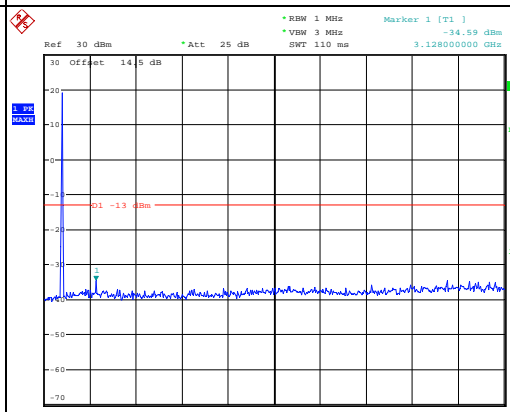


Date: 24.JUN.2023 10:33:28

Middle

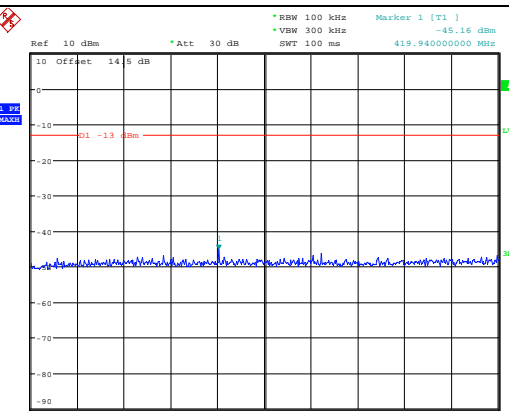


Date: 24.JUN.2023 10:33:45

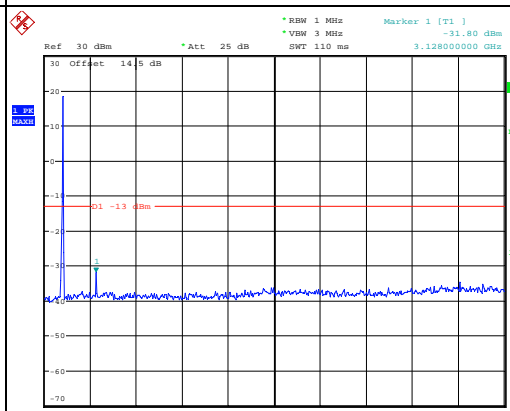


Date: 24.JUN.2023 10:33:56

Highest



Date: 24.JUN.2023 10:34:13



Date: 24.JUN.2023 10:34:25

Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.89 dBm VBW 300 kHz SWT 100 ms 224.00000000 MHz</p> <p>Date: 24.JUN.2023 10:35:04</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -34.73 dBm VBW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:35:15</p>
Middle	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -47.00 dBm VBW 300 kHz SWT 100 ms 328.760000000 MHz</p> <p>Date: 24.JUN.2023 10:35:29</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -33.74 dBm VBW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:35:40</p>
Highest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.49 dBm VBW 300 kHz SWT 100 ms 462.620000000 MHz</p> <p>Date: 24.JUN.2023 10:35:57</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -33.00 dBm VBW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 24.JUN.2023 10:36:08</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Date: 21.JUN.2023 23:56:48</p>	<p>Date: 21.JUN.2023 23:57:04</p>
QPSK 3MHz	<p>Date: 22.JUN.2023 00:07:35</p>	<p>Date: 22.JUN.2023 00:07:52</p>
QPSK 5MHz	<p>Date: 22.JUN.2023 00:08:33</p>	<p>Date: 22.JUN.2023 00:08:51</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Date: 21.JUN.2023 23:56:56</p>	<p>Date: 21.JUN.2023 23:57:12</p>
16QAM 3MHz	<p>Date: 22.JUN.2023 00:07:44</p>	<p>Date: 22.JUN.2023 00:08:00</p>
16QAM 5MHz	<p>Date: 22.JUN.2023 00:08:42</p>	<p>Date: 22.JUN.2023 00:08:59</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MH		
16QAM 20MH		

4.15 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/6/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

Test Data:

FCC§2.1046;§ 27.50(c) (10)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	25.25	25.14	25.05	20.61	34.77
	RB1#13	25.36	25.24	25.17		
	RB1#24	25.27	25.07	25.04		
	RB15#0	24.24	24.09	24.1		
	RB15#10	24.25	24.21	24.15		
	RB25#0	24.25	24.19	24.11		
5MHz 16QAM	RB1#0	24.32	24.31	24.1	19.7	34.77
	RB1#13	24.31	24.45	24.2		
	RB1#24	24.29	24.3	24.11		
	RB15#0	23.21	23.13	23.03		
	RB15#10	23.2	23.27	23.07		
	RB25#0	23.25	23.13	23.14		
10MHz QPSK	RB1#0	25.34	25.18	25.21	20.76	34.77
	RB1#25	25.51	25.29	25.3		
	RB1#49	25.31	25.15	25.18		
	RB25#0	24.43	24.22	24.3		
	RB25#25	24.34	24.37	24.27		
	RB50#0	24.36	24.26	24.22		
10MHz 16QAM	RB1#0	24.25	24.42	24.11	19.75	34.77
	RB1#25	24.36	24.5	24.21		
	RB1#49	24.2	24.35	24.08		
	RB25#0	23.46	23.2	23.3		
	RB25#25	23.37	23.35	23.36		
	RB50#0	23.38	23.26	23.25		
15MHz QPSK	RB1#0	25.35	25.21	25.13	20.65	34.77
	RB1#38	25.4	25.23	25.17		
	RB1#74	25.2	25.13	25.06		
	RB36#0	24.44	24.17	24.2		
	RB36#39	24.33	24.24	24.27		
	RB75#0	24.4	24.19	24.21		
15MHz 16QAM	RB1#0	24.23	24.05	23.98	19.48	34.77
	RB1#38	24.23	24.13	24.1		
	RB1#74	24.09	23.97	24		
	RB36#0	23.35	23.07	23.14		
	RB36#39	23.27	23.16	23.19		
	RB75#0	23.35	23.16	23.21		
20MHz QPSK	RB1#0	25.22	25.08	24.99	20.74	34.77
	RB1#50	25.49	25.3	25.28		
	RB1#99	25.05	24.97	24.84		

	RB50#0	24.38	23.99	24.07		
	RB50#50	24.36	24.15	24.23		
	RB100#0	24.35	24.09	24.13		
20MHz 16QAM	RB1#0	24.09	24.12	24.17	19.72	34.77
	RB1#50	24.47	24.34	24.44		
	RB1#99	23.89	24.07	24.06		
	RB50#0	23.34	22.97	23.1		
	RB50#50	23.37	23.17	23.24		
	RB100#0	23.37	23.1	23.14		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15

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

Result:	Pass
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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	10.13	10.99	11.06	13
	RB100#0	6.47	6.6	6.31	13
20MHz 16QAM	RB1#0	10.06	10.42	10.38	13
	RB100#0	7.28	7.31	7.15	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	4.52	4.52	4.52	5.12	5.2	5.18
5MHz 16QAM	4.54	4.54	4.52	5.16	5.18	5.2
10MHz QPSK	8.96	8.96	9	9.72	9.88	10
10MHz 16QAM	8.96	8.96	8.96	9.84	9.88	9.84
15MHz QPSK	13.68	13.5	13.56	19.68	15.3	15.06
15MHz 16QAM	13.56	13.5	13.62	15.36	14.94	15.24
20MHz QPSK	18	18	17.92	19.76	19.44	19.52
20MHz 16QAM	18	18	18	19.76	19.68	19.44

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

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal

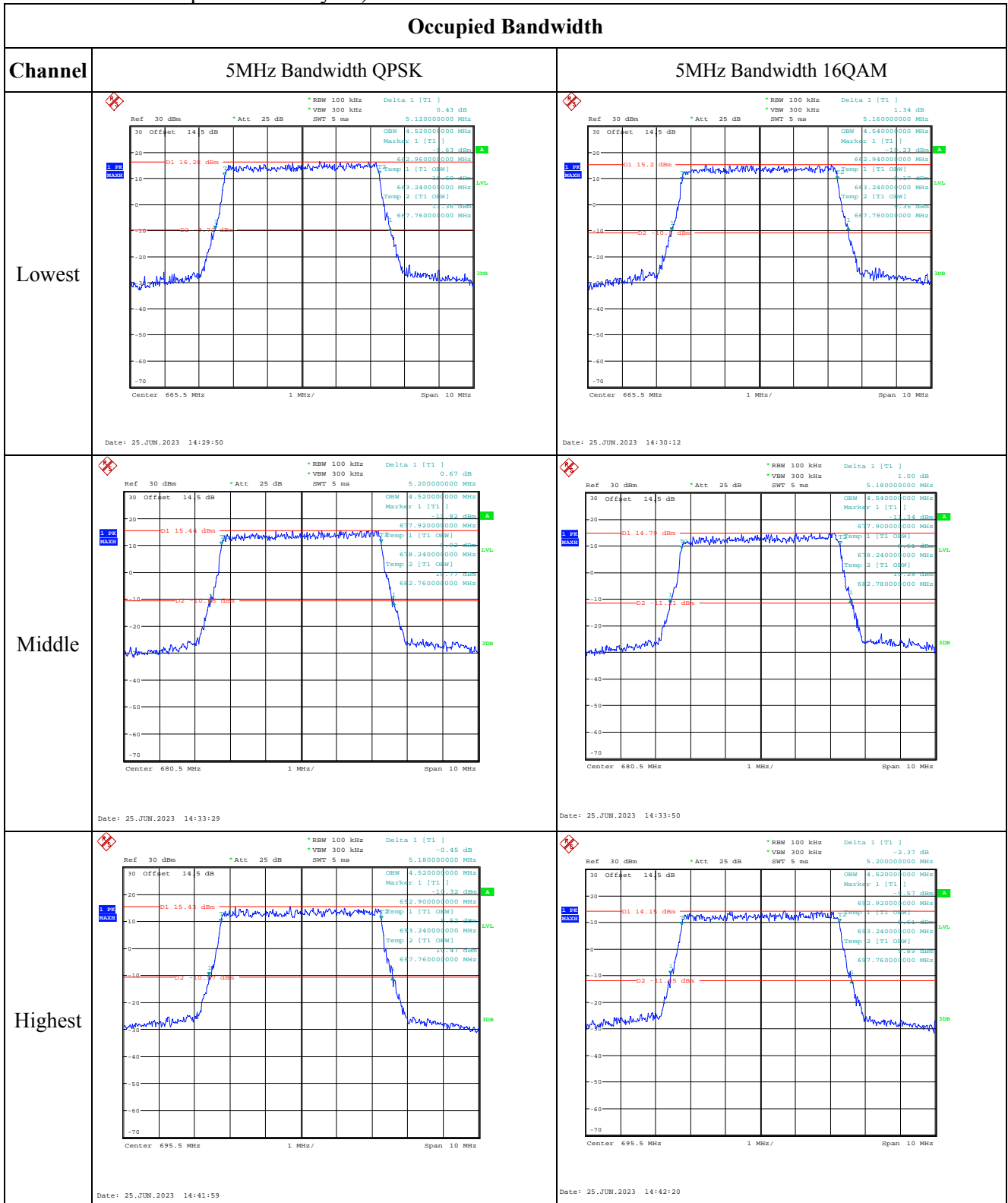
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.8	664.029	663.00	696.973	698.00
	-20	3.8	664.026	663.00	696.968	698.00
	-10	3.8	664.028	663.00	696.983	698.00
	0	3.8	664.025	663.00	696.968	698.00
	10	3.8	664.037	663.00	696.968	698.00
	20	3.8	664.040	663.00	696.960	698.00
	30	3.8	664.029	663.00	696.973	698.00
	40	3.8	664.012	663.00	696.985	698.00
Frequency Stability vs. Voltage	20	3.65	664.034	663.00	696.978	698.00
	20	4.35	664.030	663.00	696.973	698.00
	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	3.8	664.029	663.00	697.047	698.00
	-20	3.8	664.031	663.00	697.058	698.00
	-10	3.8	664.025	663.00	697.048	698.00
	0	3.8	664.026	663.00	697.065	698.00
	10	3.8	664.021	663.00	697.048	698.00
	20	3.8	664.040	663.00	697.040	698.00
	30	3.8	664.015	663.00	697.064	698.00
	40	3.8	664.032	663.00	697.045	698.00
	50	3.8	664.014	663.00	697.053	698.00
Frequency Stability vs. Voltage	20	3.65	664.011	663.00	697.046	698.00
	20	4.35	664.037	663.00	697.068	698.00
Result:					Pass	

Test Plots(Note: The 14.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.35 dB *VSW 300 kHz *SWT 10 ms 9.720000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.35 dB *VSW 300 kHz *SWT 10 ms 9.720000000 MHz Marker 1 [T1] 663.160000000 MHz -11.36 dBm Temp 1 [T1 OSW] 663.160000000 MHz Temp 2 [T1 OSW] 663.520000000 MHz Temp 3 [T1 OSW] 672.480000000 MHz Center 668 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:45:07</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.83 dB *VSW 300 kHz *SWT 10 ms 9.840000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.83 dB *VSW 300 kHz *SWT 10 ms 9.840000000 MHz Marker 1 [T1] 663.080000000 MHz -11.90 dBm Temp 1 [T1 OSW] 663.080000000 MHz Temp 2 [T1 OSW] 663.520000000 MHz Temp 3 [T1 OSW] 672.480000000 MHz Center 668 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:45:26</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.36 dB *VSW 300 kHz *SWT 10 ms 9.880000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.36 dB *VSW 300 kHz *SWT 10 ms 9.880000000 MHz Marker 1 [T1] 675.620000000 MHz -11.44 dBm Temp 1 [T1 OSW] 675.620000000 MHz Temp 2 [T1 OSW] 676.020000000 MHz Temp 3 [T1 OSW] 684.980000000 MHz Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:47:46</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.24 dB *VSW 300 kHz *SWT 10 ms 9.880000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.24 dB *VSW 300 kHz *SWT 10 ms 9.880000000 MHz Marker 1 [T1] 675.580000000 MHz -11.93 dBm Temp 1 [T1 OSW] 675.580000000 MHz Temp 2 [T1 OSW] 676.020000000 MHz Temp 3 [T1 OSW] 684.980000000 MHz Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:48:08</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.83 dB *VSW 300 kHz *SWT 10 ms 10.000000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.83 dB *VSW 300 kHz *SWT 10 ms 10.000000000 MHz Marker 1 [T1] 689.000000000 MHz -11.47 dBm Temp 1 [T1 OSW] 689.000000000 MHz Temp 2 [T1 OSW] 688.480000000 MHz Temp 3 [T1 OSW] 687.480000000 MHz Center 693 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 15:56:05</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.01 dB *VSW 300 kHz *SWT 10 ms 9.840000000 MHz 30 Offset 14.5 dB *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.01 dB *VSW 300 kHz *SWT 10 ms 9.840000000 MHz Marker 1 [T1] 688.080000000 MHz -11.47 dBm Temp 1 [T1 OSW] 688.080000000 MHz Temp 2 [T1 OSW] 688.520000000 MHz Temp 3 [T1 OSW] 687.480000000 MHz Center 693 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 15:56:26</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

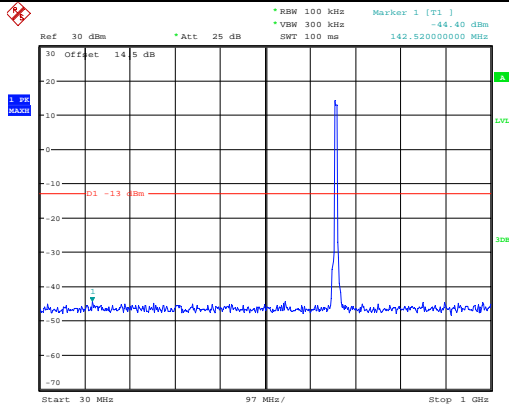
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

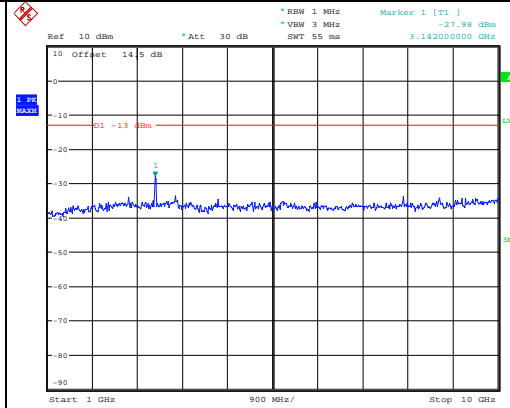
Channel

5MHz Bandwidth QPSK

Lowest

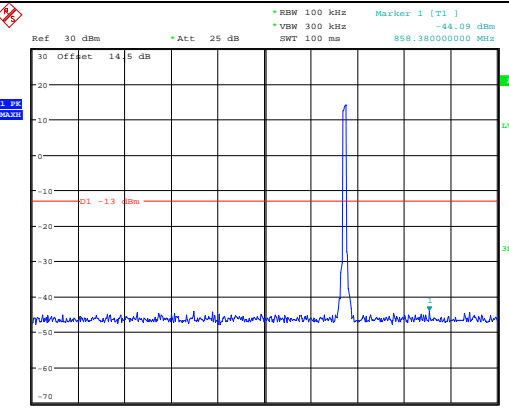


Date: 25.JUN.2023 20:00:20

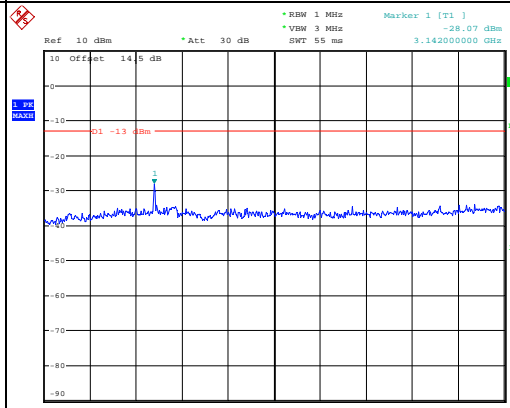


Date: 25.JUN.2023 20:00:33

Middle

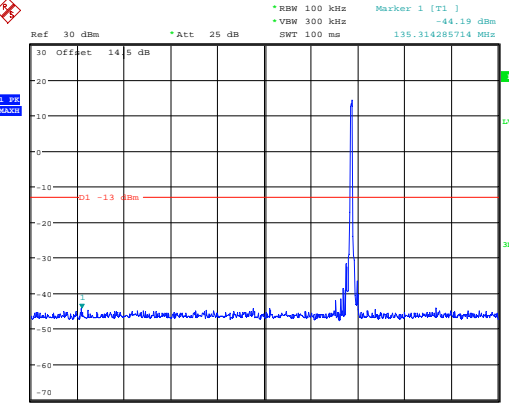


Date: 25.JUN.2023 20:01:09

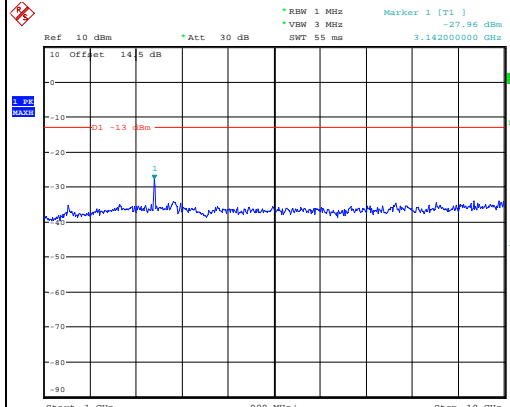


Date: 25.JUN.2023 20:01:22

Highest



Date: 25.JUN.2023 20:14:38



Date: 25.JUN.2023 20:02:17

Spurious Emissions at Antenna Terminal

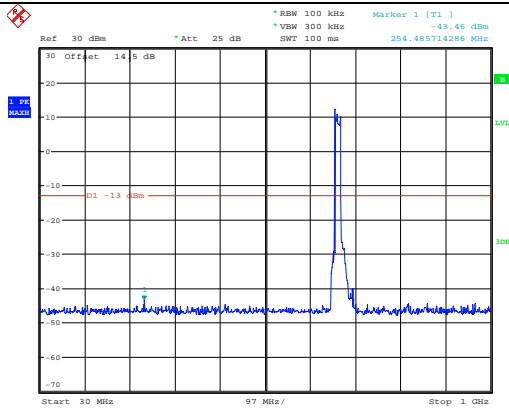
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -44.13 dBm VSW 300 kHz SWT 100 ms 150.742857143 MHz</p> <p>Center 515 MHz 97 MHz/ Span 970 MHz</p> <p>Date: 25.JUN.2023 20:16:54</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -27.78 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 25.JUN.2023 20:17:23</p>
Middle	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -43.11 dBm VSW 300 kHz SWT 100 ms 490.05742857 MHz</p> <p>Center 515 MHz 97 MHz/ Span 970 MHz</p> <p>Date: 25.JUN.2023 20:18:49</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -29.13 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 25.JUN.2023 20:19:11</p>
Highest	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -43.26 dBm VSW 300 kHz SWT 100 ms 330.700000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 25.JUN.2023 20:27:45</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -29.19 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 25.JUN.2023 20:28:03</p>

Spurious Emissions at Antenna Terminal

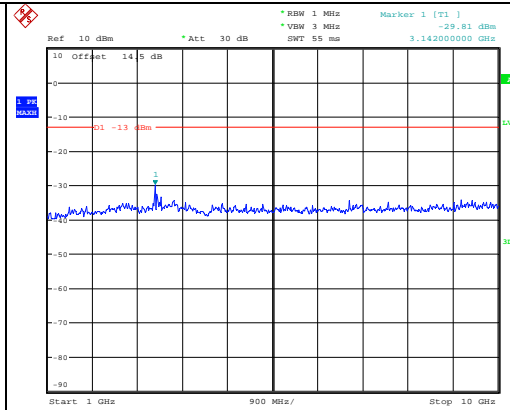
Channel

15MHz Bandwidth QPSK

Lowest

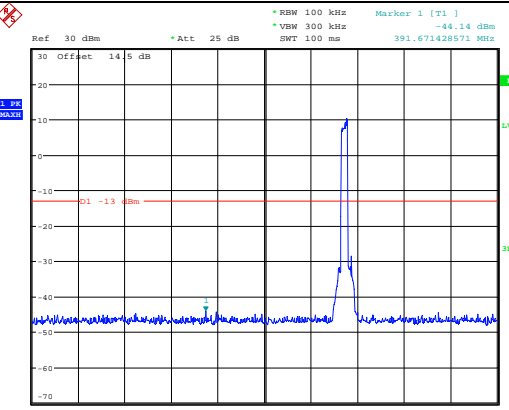


Date: 25.JUN.2023 20:29:30

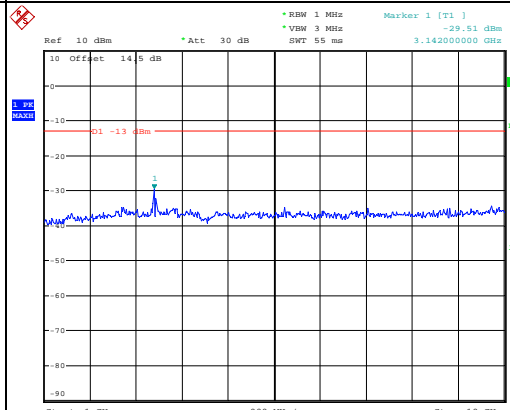


Date: 25.JUN.2023 20:30:09

Middle

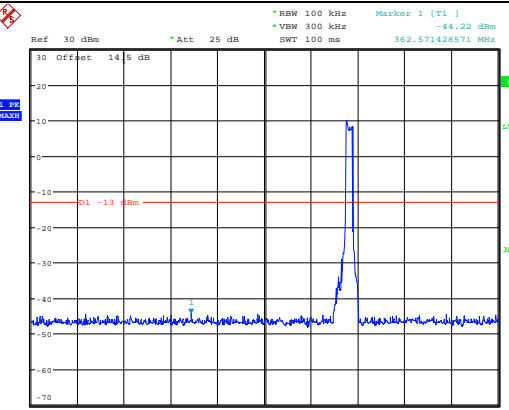


Date: 25.JUN.2023 20:31:09

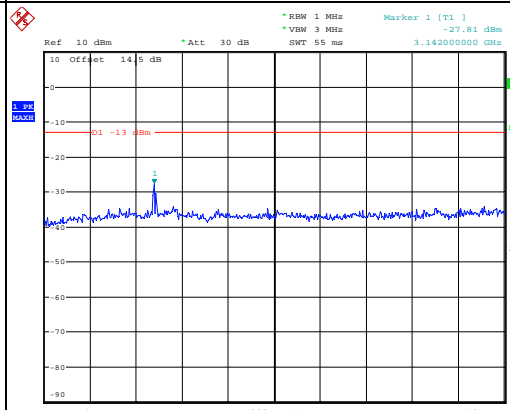


Date: 25.JUN.2023 20:31:27

Highest



Date: 25.JUN.2023 20:32:30



Date: 25.JUN.2023 20:32:46

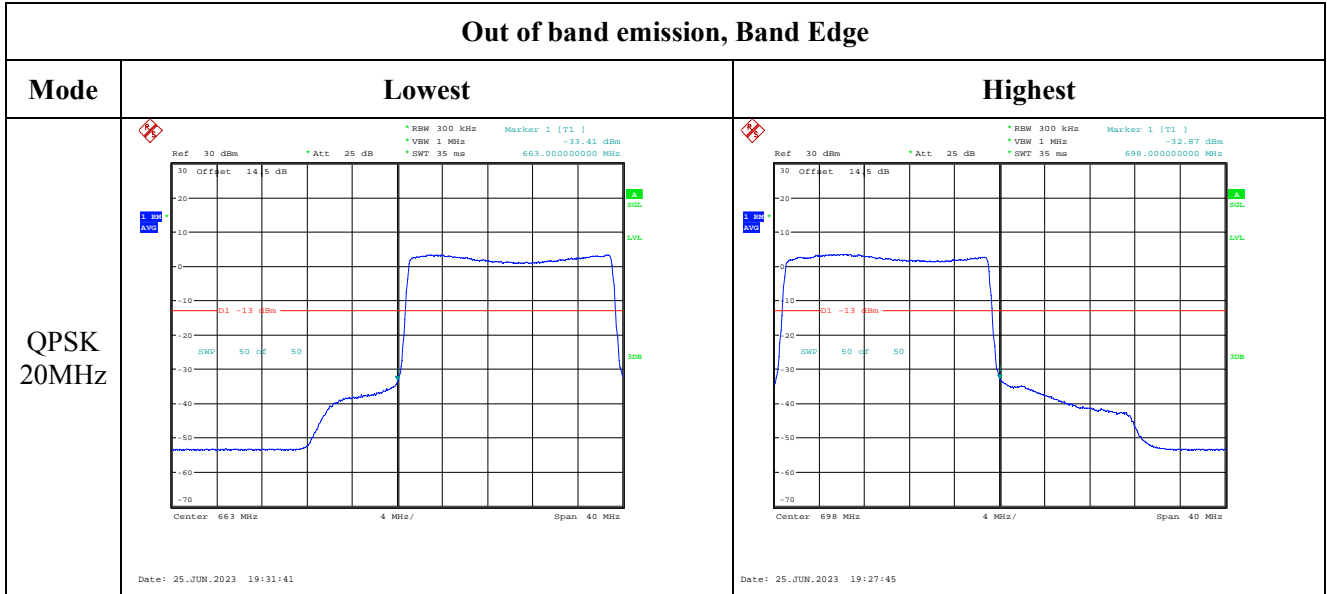
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -43.54 dBm VSW 300 kHz SWT 100 ms 60.485714286 MHz</p> <p>Date: 25.JUN.2023 20:33:52</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -28.89 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Date: 25.JUN.2023 20:34:17</p>
Middle	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -44.30 dBm VSW 300 kHz SWT 100 ms 190.742857143 MHz</p> <p>Date: 25.JUN.2023 20:43:23</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -26.80 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Date: 25.JUN.2023 20:43:51</p>
Highest	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -44.06 dBm VSW 300 kHz SWT 100 ms 862.814285714 MHz</p> <p>Date: 25.JUN.2023 20:46:45</p>	<p>Ref 10 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -27.74 dBm VSW 3 MHz SWT 55 ms 3.142000000 GHz</p> <p>Date: 25.JUN.2023 20:47:05</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>Date: 25.JUN.2023 18:05:02</p>	<p>Date: 25.JUN.2023 18:56:13</p>
QPSK 10MHz	<p>Date: 25.JUN.2023 19:00:59</p>	<p>Date: 25.JUN.2023 19:03:17</p>
QPSK 15MHz	<p>Date: 25.JUN.2023 19:12:28</p>	<p>Date: 25.JUN.2023 19:16:59</p>

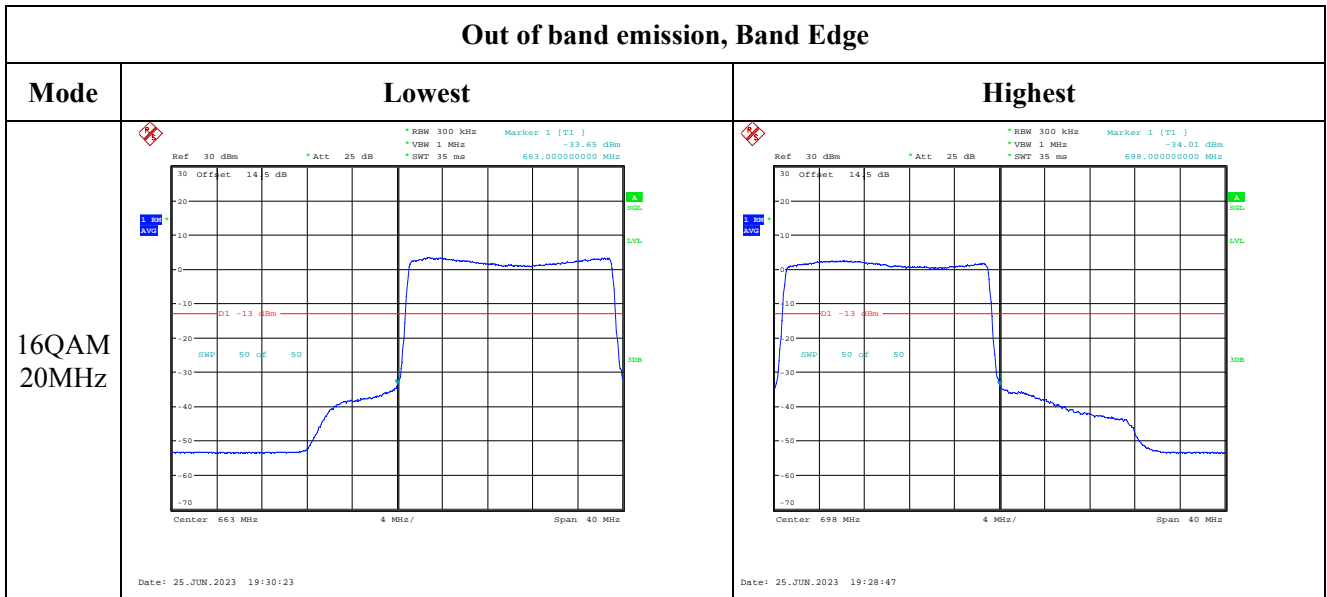
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>Date: 25.JUN.2023 18:05:11</p>	<p>Date: 25.JUN.2023 18:57:20</p>
16QAM 10MHz	<p>Date: 25.JUN.2023 19:01:33</p>	<p>Date: 25.JUN.2023 19:04:03</p>
16QAM 15MHz	<p>Date: 25.JUN.2023 19:14:07</p>	<p>Date: 25.JUN.2023 19:17:40</p>

Out of band emission, Band Edge



4.16 Radiated Spurious Emissions

Serial Number:	26YR-1	Test Date:	2023/6/19-2023/6/25
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	coco Tian,Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24-27.3	Relative Humidity: (%)	60-65	ATM Pressure: (kPa)	100.1-100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/7/15	2023/7/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/7/17	2023/7/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/7/17	2023/7/16
Sonoma	Amplifier	310N	186165	2022/7/17	2023/7/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/17	2023/7/16
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/09/16	2023/09/15
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

*** 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.

Note: The device can be mounted in multiple orientations, test was performed with X, Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it's data was recorded.

Cellular Band (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)			
GSM 850 Frequency:824.2MHz								
729.52	H	20.76	-51.96	0.00	0.53	-52.49	-13.00	39.49
694.57	V	20.85	-49.17	0.00	0.55	-49.72	-13.00	36.72
1648.400	H	35.47	-68.86	8.68	0.80	-60.98	-13.00	47.98
1648.400	V	37.64	-66.77	8.68	0.80	-58.89	-13.00	45.89
2472.600	H	34.28	-66.50	9.38	1.00	-58.12	-13.00	45.12
2472.600	V	33.97	-66.76	9.38	1.00	-58.38	-13.00	45.38
3296.800	H	37.16	-59.52	10.32	1.15	-50.35	-13.00	37.35
3296.800	V	36.64	-59.80	10.32	1.15	-50.63	-13.00	37.63
GSM 850 Frequency:836.6MHz								
719.37	H	20.87	-52.06	0.00	0.49	-52.55	-13.00	39.55
46.31	V	21.20	-45.27	-18.52	0.12	-63.91	-13.00	50.91
1673.200	H	36.94	-67.37	8.71	0.85	-59.51	-13.00	46.51
1673.200	V	36.48	-67.93	8.71	0.85	-60.07	-13.00	47.07
2509.800	H	33.52	-67.09	9.42	1.01	-58.68	-13.00	45.68
2509.800	V	34.07	-66.55	9.42	1.01	-58.14	-13.00	45.14
3346.400	H	36.88	-60.29	10.34	1.16	-51.11	-13.00	38.11
3346.400	V	36.19	-60.84	10.34	1.16	-51.66	-13.00	38.66
GSM 850 Frequency:848.8MHz								
677.78	H	21.22	-52.22	0.00	0.51	-52.73	-13.00	39.73
46.15	V	21.34	-45.00	-18.67	0.12	-63.79	-13.00	50.79
1697.600	H	36.74	-67.55	8.74	0.90	-59.71	-13.00	46.71
1697.600	V	36.65	-67.77	8.74	0.90	-59.93	-13.00	46.93
2546.400	H	34.12	-66.21	9.47	1.01	-57.75	-13.00	44.75
2546.400	V	34.25	-66.03	9.47	1.01	-57.57	-13.00	44.57
3395.200	H	35.48	-62.21	10.36	1.19	-53.04	-13.00	40.04
3395.200	V	35.72	-61.94	10.36	1.19	-52.77	-13.00	39.77

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								
131.29	H	42.77	-69.44	0.00	0.21	-69.65	-13.00	56.65
45.69	V	42.82	-54.16	-19.12	0.12	-73.40	-13.00	60.40
3700.400	H	35.42	-61.90	10.60	1.25	-52.55	-13.00	39.55
3700.400	V	34.16	-63.14	10.60	1.25	-53.79	-13.00	40.79
5550.600	H	34.23	-59.03	11.44	1.49	-49.08	-13.00	36.08
5550.600	V	34.19	-58.91	11.44	1.49	-48.96	-13.00	35.96
GSM 1900 Frequency:1880MHz								
141.82	H	42.57	-69.67	0.00	0.21	-69.88	-13.00	56.88
46.01	V	42.88	-54.42	-18.81	0.12	-73.35	-13.00	60.35
3760.000	H	34.76	-61.65	10.66	1.24	-52.23	-13.00	39.23
3760.000	V	34.87	-61.42	10.66	1.24	-52.00	-13.00	39.00
5640.000	H	33.63	-59.82	11.33	1.54	-50.03	-13.00	37.03
5640.000	V	33.42	-59.91	11.33	1.54	-50.12	-13.00	37.12
GSM 1900 Frequency:1909.8MHz								
129.93	H	42.17	-70.02	0.00	0.21	-70.23	-13.00	57.23
45.53	V	43.05	-53.77	-19.28	0.12	-73.17	-13.00	60.17
3819.600	H	35.49	-60.37	10.72	1.29	-50.94	-13.00	37.94
3819.600	V	35.37	-60.35	10.72	1.29	-50.92	-13.00	37.92
5729.400	H	34.07	-59.41	11.22	1.59	-49.78	-13.00	36.78
5729.400	V	33.53	-59.83	11.22	1.59	-50.20	-13.00	37.20

WCDMA 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)			
WCDMA Band II, Frequency:1852.4 MHz								
143.32	H	42.44	-69.74	0.00	0.22	-69.96	-13.00	56.96
45.37	V	42.64	-54.02	-19.44	0.12	-73.58	-13.00	60.58
3704.800	H	35.12	-62.14	10.60	1.25	-52.79	-13.00	39.79
3704.800	V	34.61	-62.62	10.60	1.25	-53.27	-13.00	40.27
5557.200	H	34.13	-59.15	11.43	1.49	-49.21	-13.00	36.21
5557.200	V	34.01	-59.12	11.43	1.49	-49.18	-13.00	36.18
WCDMA Band II, Frequency:1880 MHz								
141.28	H	42.42	-69.84	0.00	0.22	-70.06	-13.00	57.06
45.69	V	42.33	-54.65	-19.12	0.12	-73.89	-13.00	60.89
3760.000	H	34.36	-62.05	10.66	1.24	-52.63	-13.00	39.63
3760.000	V	34.22	-62.07	10.66	1.24	-52.65	-13.00	39.65
5640.000	H	33.64	-59.81	11.33	1.54	-50.02	-13.00	37.02
5640.000	V	33.71	-59.62	11.33	1.54	-49.83	-13.00	36.83
WCDMA Band II, Frequency:1907.6MHz								
133.61	H	42.58	-69.65	0.00	0.22	-69.87	-13.00	56.87
46.34	V	42.38	-55.24	-18.49	0.12	-73.85	-13.00	60.85
3815.200	H	34.19	-61.66	10.72	1.29	-52.23	-13.00	39.23
3815.200	V	34.23	-61.46	10.72	1.29	-52.03	-13.00	39.03
5722.800	H	33.64	-59.85	11.23	1.58	-50.20	-13.00	37.20
5722.800	V	34.57	-58.78	11.23	1.58	-49.13	-13.00	36.13

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								
141.42	H	42.52	-69.73	0.00	0.22	-69.95	-13.00	56.95
44.60	V	42.26	-53.52	-20.33	0.12	-73.97	-13.00	60.97
3424.800	H	34.62	-63.15	10.37	1.17	-53.95	-13.00	40.95
3424.800	V	33.57	-64.17	10.37	1.17	-54.97	-13.00	41.97
5137.200	H	35.17	-58.45	11.28	1.46	-48.63	-13.00	35.63
5137.200	V	34.69	-58.81	11.28	1.46	-48.99	-13.00	35.99
Frequency: 1732.6 MHz								
138.19	H	42.73	-69.55	0.00	0.22	-69.77	-13.00	56.77
42.31	V	42.39	-50.42	-23.35	0.12	-73.89	-13.00	60.89
3465.200	H	34.37	-63.44	10.39	1.15	-54.20	-13.00	41.20
3465.200	V	34.16	-63.61	10.39	1.15	-54.37	-13.00	41.37
5197.800	H	35.34	-58.79	11.32	1.44	-48.91	-13.00	35.91
5197.800	V	34.79	-59.19	11.32	1.44	-49.31	-13.00	36.31
Frequency: 1752.6 MHz								
142.68	H	42.17	-70.04	0.00	0.22	-70.26	-13.00	57.26
44.94	V	42.64	-53.58	-19.88	0.12	-73.58	-13.00	60.58
3505.200	H	35.31	-62.52	10.41	1.18	-53.29	-13.00	40.29
3505.200	V	34.61	-63.16	10.41	1.18	-53.93	-13.00	40.93
5257.800	H	33.79	-59.94	11.35	1.47	-50.06	-13.00	37.06
5257.800	V	34.07	-59.44	11.35	1.47	-49.56	-13.00	36.56

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								
697.00	H	20.64	-52.70	0.00	0.55	-53.25	-13.00	40.25
46.79	V	20.97	-45.92	-18.05	0.12	-64.09	-13.00	51.09
1652.800	H	35.12	-69.21	8.68	0.81	-61.34	-13.00	48.34
1652.800	V	34.97	-69.44	8.68	0.81	-61.57	-13.00	48.57
2479.200	H	34.63	-66.13	9.39	1.01	-57.75	-13.00	44.75
2479.200	V	34.78	-65.95	9.39	1.01	-57.57	-13.00	44.57
3305.600	H	34.09	-62.64	10.32	1.15	-53.47	-13.00	40.47
3305.600	V	34.21	-62.29	10.32	1.15	-53.12	-13.00	40.12
WCDMA Band 5 Frequency:836.6MHz								
479.12	H	20.72	-55.54	0.00	0.41	-55.95	-13.00	42.95
716.66	V	21.02	-48.54	0.00	0.50	-49.04	-13.00	36.04
1673.200	H	35.75	-68.56	8.71	0.85	-60.70	-13.00	47.70
1673.200	V	34.69	-69.72	8.71	0.85	-61.86	-13.00	48.86
2509.800	H	36.42	-64.19	9.42	1.01	-55.78	-13.00	42.78
2509.800	V	34.26	-66.36	9.42	1.01	-57.95	-13.00	44.95
3346.400	H	35.67	-61.50	10.34	1.16	-52.32	-13.00	39.32
3346.400	V	34.85	-62.18	10.34	1.16	-53.00	-13.00	40.00
WCDMA Band 5 Frequency:846.6MHz								
673.01	H	21.16	-52.31	0.00	0.50	-52.81	-13.00	39.81
699.30	V	21.30	-48.63	0.00	0.55	-49.18	-13.00	36.18
1693.200	H	34.69	-69.61	8.73	0.89	-61.77	-13.00	48.77
1693.200	V	35.21	-69.21	8.73	0.89	-61.37	-13.00	48.37
2539.800	H	33.47	-66.91	9.46	1.01	-58.46	-13.00	45.46
2539.800	V	33.96	-66.38	9.46	1.01	-57.93	-13.00	44.93
3386.400	H	34.37	-63.22	10.35	1.18	-54.05	-13.00	41.05
3386.400	V	34.89	-62.65	10.35	1.18	-53.48	-13.00	40.48

LTE Bands:

(The Worst modulation and bandwidth were below)

LTE 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)			
QPSK, 1.4MHz, Frequency:1850.7 MHz								
144.82	H	42.63	-69.50	0.00	0.23	-69.73	-13.00	56.73
46.50	V	42.41	-55.37	-18.33	0.12	-73.82	-13.00	60.82
3701.400	H	34.29	-63.02	10.60	1.25	-53.67	-13.00	40.67
3701.400	V	33.67	-63.62	10.60	1.25	-54.27	-13.00	41.27
5552.100	H	33.71	-59.56	11.44	1.49	-49.61	-13.00	36.61
5552.100	V	33.68	-59.42	11.44	1.49	-49.47	-13.00	36.47
QPSK, 1.4MHz, Frequency:1880 MHz								
147.92	H	42.28	-69.74	0.00	0.22	-69.96	-13.00	56.96
46.99	V	42.75	-55.51	-17.85	0.12	-73.48	-13.00	60.48
3760.000	H	34.62	-61.79	10.66	1.24	-52.37	-13.00	39.37
3760.000	V	33.27	-63.02	10.66	1.24	-53.60	-13.00	40.60
5640.000	H	34.35	-59.10	11.33	1.54	-49.31	-13.00	36.31
5640.000	V	33.97	-59.36	11.33	1.54	-49.57	-13.00	36.57
QPSK, 1.4MHz, Frequency:1909.3 MHz								
140.34	H	42.14	-70.15	0.00	0.22	-70.37	-13.00	57.37
46.34	V	42.66	-54.96	-18.49	0.12	-73.57	-13.00	60.57
3818.600	H	34.16	-61.70	10.72	1.29	-52.27	-13.00	39.27
3818.600	V	33.21	-62.50	10.72	1.29	-53.07	-13.00	40.07
5727.900	H	33.43	-60.05	11.23	1.59	-50.41	-13.00	37.41
5727.900	V	35.69	-57.67	11.23	1.59	-48.03	-13.00	35.03

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					
138.88	H	42.68	-69.61	0.00	0.22	-69.83	-13.00	56.83
44.12	V	42.30	-52.86	-20.96	0.12	-73.94	-13.00	60.94
3421.400	H	34.06	-63.70	10.37	1.17	-54.50	-13.00	41.50
3421.400	V	33.74	-63.99	10.37	1.17	-54.79	-13.00	41.79
5132.100	H	33.58	-59.99	11.28	1.47	-50.18	-13.00	37.18
5132.100	V	33.49	-59.97	11.28	1.47	-50.16	-13.00	37.16
1.4MHz QPSK, Frequency:			1732.5 MHz					
129.92	H	42.81	-69.38	0.00	0.21	-69.59	-13.00	56.59
46.02	V	42.45	-54.86	-18.80	0.12	-73.78	-13.00	60.78
3465.000	H	33.46	-64.35	10.39	1.15	-55.11	-13.00	42.11
3465.000	V	33.65	-64.12	10.39	1.15	-54.88	-13.00	41.88
5197.500	H	33.27	-60.86	11.32	1.44	-50.98	-13.00	37.98
5197.500	V	32.16	-61.82	11.32	1.44	-51.94	-13.00	38.94
1.4MHz QPSK, Frequency:			1754.3 MHz					
147.90	H	42.56	-69.46	0.00	0.22	-69.68	-13.00	56.68
44.85	V	42.14	-53.97	-20.00	0.12	-74.09	-13.00	61.09
3508.600	H	34.86	-62.96	10.41	1.19	-53.74	-13.00	40.74
3508.600	V	33.97	-63.79	10.41	1.19	-54.57	-13.00	41.57
5262.900	H	33.27	-60.43	11.36	1.47	-50.54	-13.00	37.54
5262.900	V	33.69	-59.78	11.36	1.47	-49.89	-13.00	36.89

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								
727.29	H	20.65	-52.12	0.00	0.52	-52.64	-13.00	39.64
729.35	V	21.45	-47.83	0.00	0.53	-48.36	-13.00	35.36
1649.400	H	34.62	-69.71	8.68	0.80	-61.83	-13.00	48.83
1649.400	V	34.09	-70.32	8.68	0.80	-62.44	-13.00	49.44
2474.100	H	33.76	-67.02	9.38	1.00	-58.64	-13.00	45.64
2474.100	V	33.81	-66.92	9.38	1.00	-58.54	-13.00	45.54
3298.800	H	33.45	-63.23	10.32	1.15	-54.06	-13.00	41.06
3298.800	V	33.67	-62.77	10.32	1.15	-53.60	-13.00	40.60
QPSK, 1.4MHz, Frequency: 836.5 MHz								
709.41	H	20.98	-52.15	0.00	0.52	-52.67	-13.00	39.67
45.66	V	21.31	-44.60	-19.15	0.12	-63.87	-13.00	50.87
1673.000	H	34.26	-70.05	8.71	0.85	-62.19	-13.00	49.19
1673.000	V	34.15	-70.26	8.71	0.85	-62.40	-13.00	49.40
2509.500	H	34.37	-66.24	9.42	1.01	-57.83	-13.00	44.83
2509.500	V	34.18	-66.44	9.42	1.01	-58.03	-13.00	45.03
3346.000	H	33.96	-63.20	10.34	1.16	-54.02	-13.00	41.02
3346.000	V	33.87	-63.15	10.34	1.16	-53.97	-13.00	40.97
QPSK, 1.4MHz, Frequency: 848.3 MHz								
661.41	H	21.04	-52.49	0.00	0.51	-53.00	-13.00	40.00
716.69	V	21.39	-48.17	0.00	0.50	-48.67	-13.00	35.67
1696.600	H	33.64	-70.65	8.74	0.89	-62.80	-13.00	49.80
1696.600	V	33.75	-70.67	8.74	0.89	-62.82	-13.00	49.82
2544.900	H	33.94	-66.40	9.47	1.01	-57.94	-13.00	44.94
2544.900	V	33.88	-66.42	9.47	1.01	-57.96	-13.00	44.96
3393.200	H	33.68	-63.99	10.36	1.19	-54.82	-13.00	41.82
3393.200	V	34.02	-63.61	10.36	1.19	-54.44	-13.00	41.44

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)			
QPSK, 1.4MHz, Frequency: 699.7 MHz								
570.90	H	20.87	-53.56	0.00	0.46	-54.02	-13.00	41.02
422.35	V	20.91	-53.75	0.00	0.39	-54.14	-13.00	41.14
1399.400	H	34.62	-69.08	8.22	0.71	-61.57	-13.00	48.57
1399.400	V	33.59	-70.16	8.22	0.71	-62.65	-13.00	49.65
2099.100	H	33.78	-68.10	9.16	0.91	-59.85	-13.00	46.85
2099.100	V	33.91	-67.92	9.16	0.91	-59.67	-13.00	46.67
2798.800	H	33.63	-66.30	9.88	1.04	-57.46	-13.00	44.46
2798.800	V	34.01	-65.79	9.88	1.04	-56.95	-13.00	43.95
QPSK, 1.4MHz, Frequency:707.5 MHz								
501.50	H	20.62	-55.18	0.00	0.45	-55.63	-13.00	42.63
46.63	V	21.01	-45.74	-18.20	0.12	-64.06	-13.00	51.06
1415.000	H	34.62	-69.05	8.26	0.72	-61.51	-13.00	48.51
1415.000	V	33.41	-70.31	8.26	0.72	-62.77	-13.00	49.77
2122.500	H	33.68	-68.31	9.17	0.92	-60.06	-13.00	47.06
2122.500	V	33.75	-68.22	9.17	0.92	-59.97	-13.00	46.97
2830.000	H	34.62	-65.18	9.93	1.06	-56.31	-13.00	43.31
2830.000	V	33.79	-65.94	9.93	1.06	-57.07	-13.00	44.07
QPSK, 1.4MHz, Frequency: 715.3 MHz								
583.03	H	20.83	-53.36	0.00	0.46	-53.82	-13.00	40.82
46.50	V	21.11	-45.53	-18.33	0.12	-63.98	-13.00	50.98
1430.600	H	34.79	-68.84	8.31	0.73	-61.26	-13.00	48.26
1430.600	V	35.02	-68.67	8.31	0.73	-61.09	-13.00	48.09
2145.900	H	33.46	-68.64	9.19	0.93	-60.38	-13.00	47.38
2145.900	V	33.93	-68.18	9.19	0.93	-59.92	-13.00	46.92
2861.200	H	33.84	-65.81	9.98	1.07	-56.90	-13.00	43.90
2861.200	V	33.76	-65.91	9.98	1.07	-57.00	-13.00	44.00

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)			
QPSK, 5MHz, Frequency: 706.5 MHz								
130.64	H	20.87	-59.78	0.00	0.21	-59.99	-13.00	46.99
46.62	V	21.01	-45.74	-18.21	0.12	-64.07	-13.00	51.07
1413.000	H	34.29	-69.38	8.26	0.72	-61.84	-13.00	48.84
1413.000	V	33.97	-69.75	8.26	0.72	-62.21	-13.00	49.21
2119.500	H	33.47	-68.50	9.17	0.92	-60.25	-13.00	47.25
2119.500	V	33.51	-68.44	9.17	0.92	-60.19	-13.00	47.19
2826.000	H	33.29	-66.52	9.92	1.06	-57.66	-13.00	44.66
2826.000	V	33.31	-66.43	9.92	1.06	-57.57	-13.00	44.57
QPSK, 5MHz, Frequency: 710 MHz								
585.09	H	20.76	-53.39	0.00	0.46	-53.85	-13.00	40.85
46.78	V	20.96	-45.93	-18.06	0.12	-64.11	-13.00	51.11
1420.000	H	34.26	-69.40	8.28	0.73	-61.85	-13.00	48.85
1420.000	V	34.62	-69.09	8.28	0.73	-61.54	-13.00	48.54
2130.000	H	33.52	-68.50	9.18	0.92	-60.24	-13.00	47.24
2130.000	V	34.16	-67.85	9.18	0.92	-59.59	-13.00	46.59
2840.000	H	33.69	-66.06	9.94	1.06	-57.18	-13.00	44.18
2840.000	V	33.74	-65.97	9.94	1.06	-57.09	-13.00	44.09
QPSK, 5MHz, Frequency: 713.5 MHz								
534.16	H	20.74	-54.42	0.00	0.46	-54.88	-13.00	41.88
638.36	V	21.28	-49.76	0.00	0.52	-50.28	-13.00	37.28
1427.000	H	34.44	-69.20	8.30	0.73	-61.63	-13.00	48.63
1427.000	V	34.27	-69.42	8.30	0.73	-61.85	-13.00	48.85
2140.500	H	33.29	-68.78	9.18	0.93	-60.53	-13.00	47.53
2140.500	V	34.10	-67.98	9.18	0.93	-59.73	-13.00	46.73
2854.000	H	34.27	-65.42	9.97	1.07	-56.52	-13.00	43.52
2854.000	V	33.97	-65.71	9.97	1.07	-56.81	-13.00	43.81

LTE Band 25 (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)			
QPSK, 1.4MHz, Frequency: 1850.7 MHz								
144.30	H	42.35	-69.80	0.00	0.22	-70.02	-13.00	57.02
45.97	V	42.84	-54.42	-18.85	0.12	-73.39	-13.00	60.39
3701.400	H	35.26	-62.05	10.60	1.25	-52.70	-13.00	39.70
3701.400	V	35.98	-61.31	10.60	1.25	-51.96	-13.00	38.96
5552.100	H	33.72	-59.55	11.44	1.49	-49.60	-13.00	36.60
5552.100	V	34.16	-58.94	11.44	1.49	-48.99	-13.00	35.99
QPSK, 1.4MHz, Frequency: 1882.5 MHz								
137.92	H	42.69	-69.59	0.00	0.22	-69.81	-13.00	56.81
43.65	V	42.56	-51.99	-21.58	0.12	-73.69	-13.00	60.69
3765.000	H	35.64	-60.69	10.67	1.25	-51.27	-13.00	38.27
3765.000	V	34.17	-62.04	10.67	1.25	-52.62	-13.00	39.62
5647.500	H	35.28	-58.17	11.32	1.55	-48.40	-13.00	35.40
5647.500	V	34.66	-58.67	11.32	1.55	-48.90	-13.00	35.90
QPSK, 1.4MHz, Frequency: 1914.3 MHz								
129.48	H	42.19	-70.00	0.00	0.21	-70.21	-13.00	57.21
42.30	V	42.13	-50.67	-23.36	0.12	-74.15	-13.00	61.15
3828.600	H	34.62	-61.28	10.73	1.28	-51.83	-13.00	38.83
3828.600	V	35.07	-60.70	10.73	1.28	-51.25	-13.00	38.25
5742.900	H	34.43	-59.05	11.21	1.60	-49.44	-13.00	36.44
5742.900	V	34.89	-58.47	11.21	1.60	-48.86	-13.00	35.86

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)			
QPSK, 1.4MHz, Frequency: 814.7MHz								
709.21	H	20.76	-52.37	0.00	0.52	-52.89	-13.00	39.89
716.90	V	21.13	-48.42	0.00	0.50	-48.92	-13.00	35.92
1629.400	H	34.67	-69.68	8.66	0.81	-61.83	-13.00	48.83
1629.400	V	35.64	-68.77	8.66	0.81	-60.92	-13.00	47.92
2444.100	H	34.52	-66.37	9.37	1.00	-58.00	-13.00	45.00
2444.100	V	34.73	-66.02	9.37	1.00	-57.65	-13.00	44.65
3258.800	H	33.59	-63.27	10.30	1.17	-54.14	-13.00	41.14
3258.800	V	33.71	-62.90	10.30	1.17	-53.77	-13.00	40.77
QPSK, 1.4MHz, Frequency:831.5 MHz								
701.34	H	21.03	-52.26	0.00	0.55	-52.81	-13.00	39.81
724.28	V	20.96	-48.43	0.00	0.51	-48.94	-13.00	35.94
1663.000	H	34.62	-69.70	8.70	0.83	-61.83	-13.00	48.83
1663.000	V	35.03	-69.38	8.70	0.83	-61.51	-13.00	48.51
2494.500	H	34.46	-66.24	9.40	1.01	-57.85	-13.00	44.85
2494.500	V	34.52	-66.19	9.40	1.01	-57.80	-13.00	44.80
3326.000	H	33.78	-63.17	10.33	1.16	-54.00	-13.00	41.00
3326.000	V	34.05	-62.72	10.33	1.16	-53.55	-13.00	40.55
QPSK, 1.4MHz, Frequency: 848.3 MHz								
721.74	H	20.64	-52.24	0.00	0.50	-52.74	-13.00	39.74
704.37	V	21.30	-48.52	0.00	0.55	-49.07	-13.00	36.07
1696.600	H	35.27	-69.02	8.74	0.89	-61.17	-13.00	48.17
1696.600	V	34.91	-69.51	8.74	0.89	-61.66	-13.00	48.66
2544.900	H	34.75	-65.59	9.47	1.01	-57.13	-13.00	44.13
2544.900	V	35.11	-65.19	9.47	1.01	-56.73	-13.00	43.73
3393.200	H	34.62	-63.05	10.36	1.19	-53.88	-13.00	40.88
3393.200	V	35.42	-62.21	10.36	1.19	-53.04	-13.00	40.04

LTE Band 41(2496MHz-2690MHz):

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								
147.92	H	42.74	-69.28	0.00	0.22	-69.50	-25.00	44.50
46.23	V	42.04	-55.47	-18.59	0.12	-74.18	-25.00	49.18
4997.000	H	33.42	-59.52	11.20	1.48	-49.80	-25.00	24.80
4997.000	V	33.36	-59.44	11.20	1.48	-49.72	-25.00	24.72
7495.500	H	33.63	-56.16	10.90	1.94	-47.20	-25.00	22.20
7495.500	V	33.75	-56.54	10.90	1.94	-47.58	-25.00	22.58
QPSK, 5MHz, Frequency: 2593 MHz								
143.40	H	42.41	-69.77	0.00	0.22	-69.99	-25.00	44.99
46.66	V	42.64	-55.30	-18.17	0.12	-73.59	-25.00	48.59
5186.000	H	35.42	-58.61	11.31	1.44	-48.74	-25.00	23.74
5186.000	V	34.65	-59.24	11.31	1.44	-49.37	-25.00	24.37
7779.000	H	34.13	-55.36	10.84	1.99	-46.51	-25.00	21.51
7779.000	V	33.79	-56.15	10.84	1.99	-47.30	-25.00	22.30
QPSK, 5MHz, Frequency: 2687.5 MHz								
128.19	H	42.47	-69.71	0.00	0.21	-69.92	-25.00	44.92
46.18	V	42.24	-55.22	-18.64	0.12	-73.98	-25.00	48.98
5375.000	H	33.45	-60.06	11.43	1.49	-50.12	-25.00	25.12
5375.000	V	33.47	-60.03	11.43	1.49	-50.09	-25.00	25.09
8062.500	H	33.63	-54.59	10.81	2.12	-45.90	-25.00	20.90
8062.500	V	33.52	-55.20	10.81	2.12	-46.51	-25.00	21.51

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					
132.68	H	42.48	-69.74	0.00	0.22	-69.96	-13.00	56.96
45.54	V	42.28	-54.55	-19.27	0.12	-73.94	-13.00	60.94
3421.400	H	34.62	-63.14	10.37	1.17	-53.94	-13.00	40.94
3421.400	V	34.17	-63.56	10.37	1.17	-54.36	-13.00	41.36
5132.100	H	33.26	-60.31	11.28	1.47	-50.50	-13.00	37.50
5132.100	V	33.43	-60.03	11.28	1.47	-50.22	-13.00	37.22
1.4MHz QPSK, Frequency:			1745 MHz					
144.82	H	42.70	-69.43	0.00	0.23	-69.66	-13.00	56.66
46.02	V	42.12	-55.19	-18.80	0.12	-74.11	-13.00	61.11
3490.000	H	34.26	-63.58	10.40	1.17	-54.35	-13.00	41.35
3490.000	V	33.47	-64.31	10.40	1.17	-55.08	-13.00	42.08
5235.000	H	34.06	-59.84	11.34	1.46	-49.96	-13.00	36.96
5235.000	V	33.75	-59.96	11.34	1.46	-50.08	-13.00	37.08
1.4MHz QPSK, Frequency:			1779.3 MHz					
144.84	H	42.52	-69.61	0.00	0.23	-69.84	-13.00	56.84
44.90	V	42.50	-53.67	-19.93	0.12	-73.72	-13.00	60.72
3558.600	H	33.73	-63.94	10.46	1.22	-54.70	-13.00	41.70
3558.600	V	33.49	-64.08	10.46	1.22	-54.84	-13.00	41.84
5337.900	H	33.51	-59.96	11.40	1.47	-50.03	-13.00	37.03
5337.900	V	33.86	-59.47	11.40	1.47	-49.54	-13.00	36.54

LTE Band 71(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: 665.5 MHz								
729.35	H	21.48	-51.25	0.00	0.53	-51.78	-13.00	38.78
572.61	V	21.20	-50.49	0.00	0.46	-50.95	-13.00	37.95
1331.000	H	34.56	-68.47	8.03	0.76	-61.20	-13.00	48.20
1331.000	V	34.27	-69.09	8.03	0.76	-61.82	-13.00	48.82
1996.500	H	33.59	-68.57	9.10	0.89	-60.36	-13.00	47.36
1996.500	V	33.78	-67.76	9.10	0.89	-59.55	-13.00	46.55
2662.000	H	33.64	-66.32	9.66	1.06	-57.72	-13.00	44.72
2662.000	V	33.85	-66.03	9.66	1.06	-57.43	-13.00	44.43
5MHz QPSK, Frequency: 680.5 MHz								
503.12	H	21.03	-54.74	0.00	0.45	-55.19	-13.00	42.19
46.45	V	21.13	-45.47	-18.38	0.12	-63.97	-13.00	50.97
1361.000	H	34.27	-69.06	8.11	0.77	-61.72	-13.00	48.72
1361.000	V	34.18	-69.35	8.11	0.77	-62.01	-13.00	49.01
2041.500	H	33.64	-68.39	9.12	0.91	-60.18	-13.00	47.18
2041.500	V	34.18	-67.46	9.12	0.91	-59.25	-13.00	46.25
2722.000	H	34.28	-65.69	9.76	1.05	-56.98	-13.00	43.98
2722.000	V	34.19	-65.72	9.76	1.05	-57.01	-13.00	44.01
5MHz QPSK, Frequency: 695.5 MHz								
564.78	H	21.22	-53.33	0.00	0.46	-53.79	-13.00	40.79
46.97	V	20.89	-46.16	-17.87	0.12	-64.15	-13.00	51.15
1391.000	H	34.09	-69.53	8.19	0.72	-62.06	-13.00	49.06
1391.000	V	34.11	-69.59	8.19	0.72	-62.12	-13.00	49.12
2086.500	H	33.44	-68.47	9.15	0.91	-60.23	-13.00	47.23
2086.500	V	33.65	-68.14	9.15	0.91	-59.90	-13.00	46.90
2782.000	H	33.62	-66.32	9.85	1.05	-57.52	-13.00	44.52
2782.000	V	33.57	-66.26	9.85	1.05	-57.46	-13.00	44.46

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

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