

Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
QPSK 10MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:23:07</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:23:41</p>
QPSK 15MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:24:39</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:25:23</p>
QPSK 20MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:27:36</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:28:17</p>

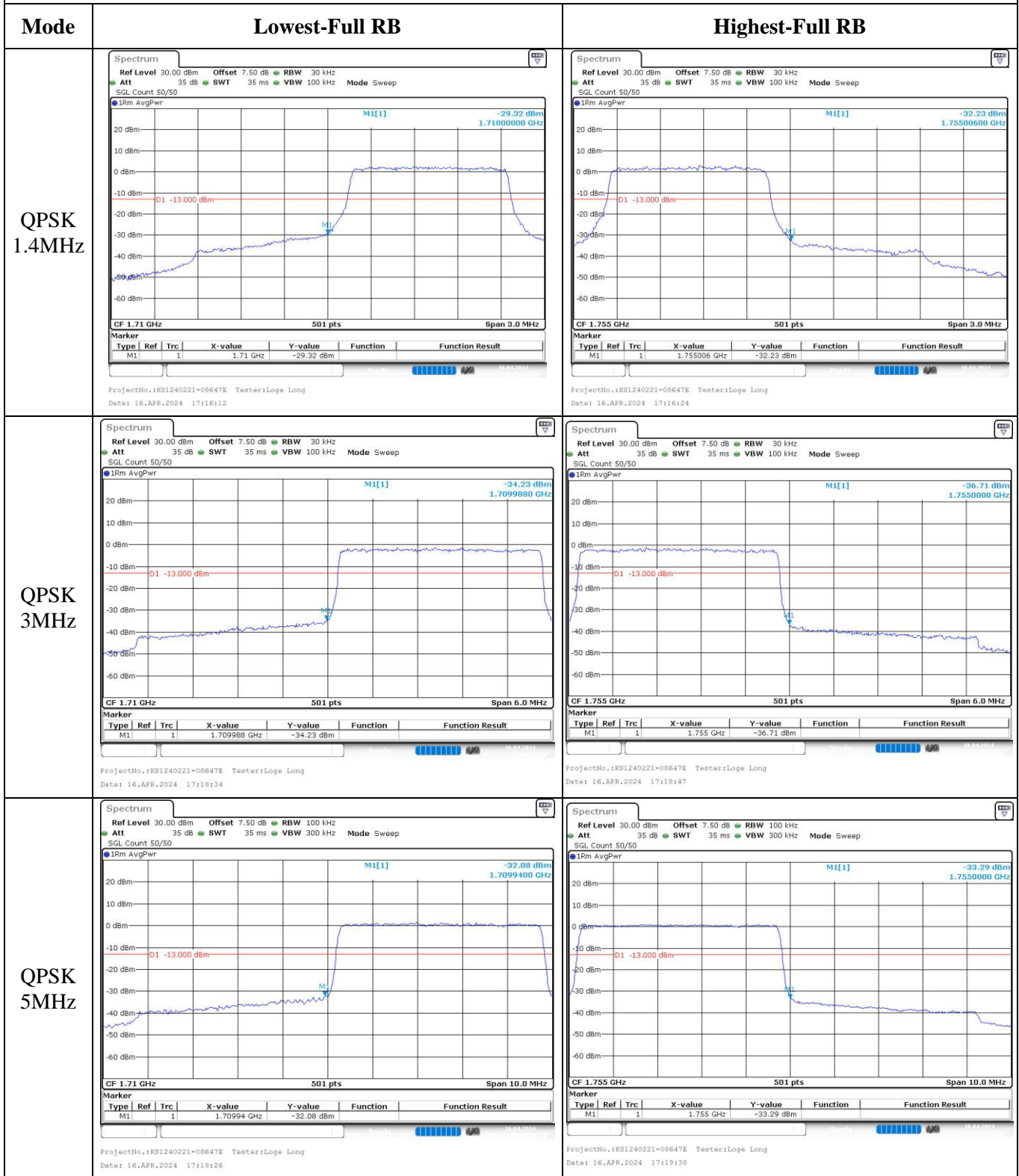
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
16QAM 1.4MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:17:58</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:18:29</p>
16QAM 3MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:19:32</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:20:52</p>
16QAM 5MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:21:49</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:22:25</p>

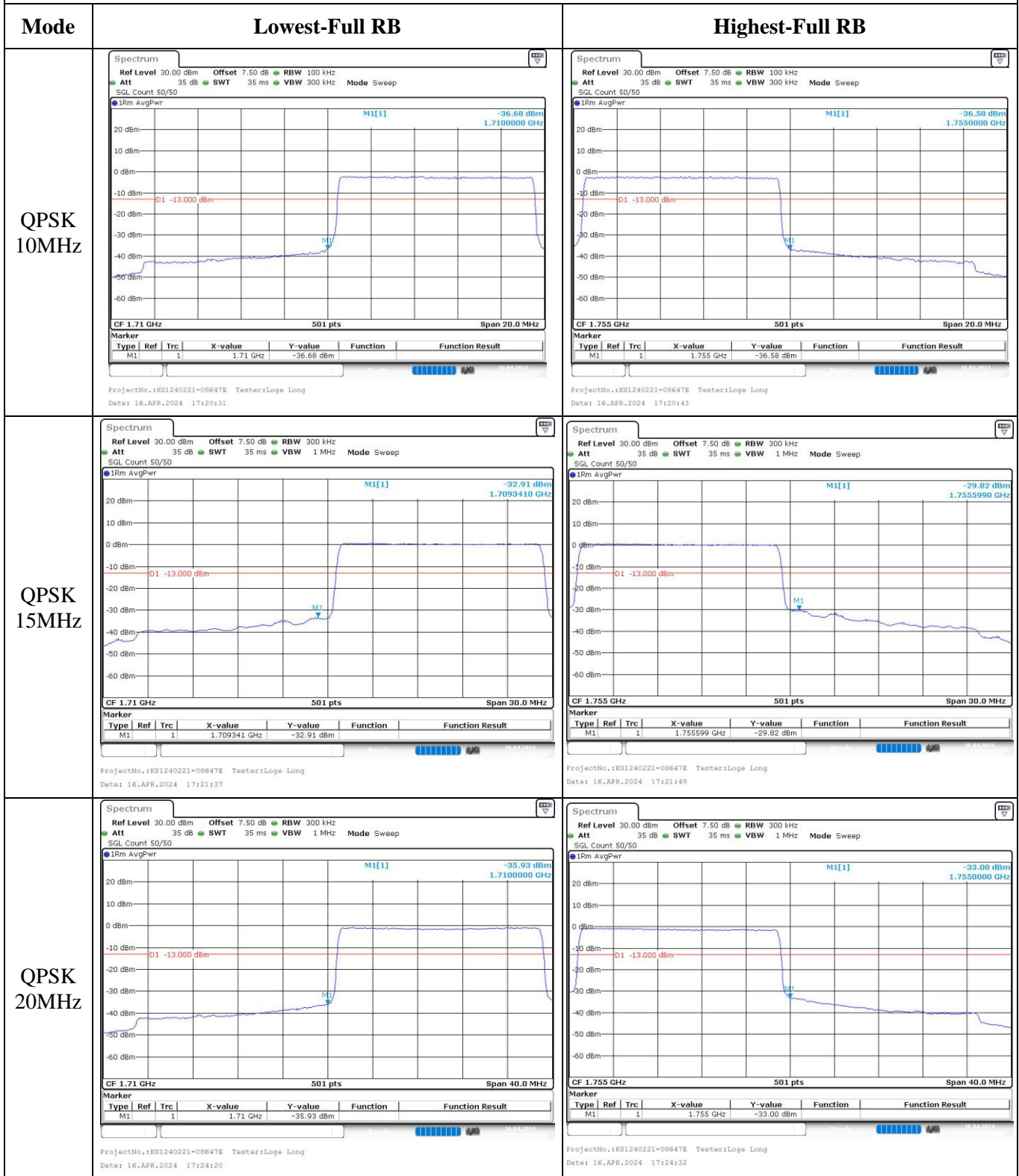
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
16QAM 10MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:23:23</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:23:59</p>
16QAM 15MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:24:56</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:25:37</p>
16QAM 20MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:27:54</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 20:28:42</p>

Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
16QAM 1.4MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:16:17</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:16:30</p>
16QAM 3MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:18:40</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:18:52</p>
16QAM 5MHz	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:19:31</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loqe Long Date: 16.APR.2024 17:19:43</p>

Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

5.7 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	2HV7-2	Test Date:	2024/4/16~2024/4/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.4~28.1	Relative Humidity: (%)	46~61	ATM Pressure: (kPa)	100.1~100.5

Test Equipment List and Details:					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Mini-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	110479	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
Micro-Coax	Coaxial Cable	UFB205A	323308-024	2024/1/2	2025/1/1
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

Test Frequency For Each Mode:			
Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

Test Data:

FCC §2.1046; § 22.913 (a)

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		
1.4MHz QPSK	RB1#0	23.25	23.24	23.24	20.81	38.45
	RB1#3	23.48	23.46	23.39		
	RB1#5	23.28	23.25	23.26		
	RB3#0	23.37	23.35	23.31		
	RB3#3	23.37	23.38	23.50		
	RB6#0	22.33	22.30	22.26		
1.4MHz 16QAM	RB1#0	22.36	22.29	22.24	19.92	38.45
	RB1#3	22.61	22.47	22.43		
	RB1#5	22.42	22.31	22.30		
	RB3#0	22.30	22.48	22.49		
	RB3#3	22.38	22.46	22.54		
	RB6#0	21.39	21.29	21.36		
3MHz QPSK	RB1#0	23.34	23.29	23.26	20.66	38.45
	RB1#8	23.35	23.27	23.27		
	RB1#14	23.32	23.25	23.25		
	RB6#0	22.27	22.28	22.22		
	RB6#9	22.29	22.29	22.29		
	RB15#0	22.31	22.35	22.29		
3MHz 16QAM	RB1#0	22.32	22.94	22.40	20.25	38.45
	RB1#8	22.34	22.88	22.36		
	RB1#14	22.32	22.84	22.45		
	RB6#0	21.25	21.38	21.27		
	RB6#9	21.28	21.38	21.37		
	RB15#0	21.43	21.40	21.29		
5MHz QPSK	RB1#0	23.18	23.22	23.14	20.67	38.45
	RB1#13	23.36	23.31	23.26		
	RB1#24	23.22	23.17	23.19		
	RB15#0	22.36	22.28	22.37		
	RB15#10	22.32	22.38	22.21		
	RB25#0	22.32	22.30	22.23		
5MHz 16QAM	RB1#0	22.47	22.30	22.04	19.94	38.45
	RB1#13	22.63	22.39	22.13		
	RB1#24	22.54	22.27	22.10		
	RB15#0	21.39	21.35	21.42		
	RB15#10	21.31	21.42	21.30		
	RB25#0	21.35	21.38	21.35		
10MHz QPSK	RB1#0	23.28	23.29	23.19	20.8	38.45
	RB1#25	23.48	23.49	23.36		
	RB1#49	23.28	23.24	23.25		

	RB25#0	22.50	22.29	22.33		
	RB25#25	22.33	22.43	22.18		
	RB50#0	22.41	22.40	22.27		
10MHz 16QAM	RB1#0	22.39	22.30	22.75	20.19	38.45
	RB1#25	22.63	22.44	22.88		
	RB1#49	22.45	22.21	22.80		
	RB25#0	21.58	21.45	21.42		
	RB25#25	21.42	21.56	21.27		
	RB50#0	21.47	21.46	21.34		

Note:
 ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)
 Gr(dBd)=Gr(dBi)-2.15

Result: **Pass**

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.12	5.36	4.75	13
	RB50#0	5.33	5.33	5.22	13
10MHz 16QAM	RB1#0	5.10	5.94	5.59	13
	RB50#0	6.20	6.23	6.12	13
Result:					Pass

FCC §2.1049, §22.905:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.096	1.108	1.096	1.308	1.290	1.302
1.4MHz 16QAM	1.090	1.096	1.102	1.284	1.296	1.326
3MHz QPSK	2.683	2.683	2.695	2.904	2.868	2.880
3MHz 16QAM	2.683	2.671	2.683	2.868	2.880	2.880
5MHz QPSK	4.511	4.491	4.511	4.960	4.920	4.960
5MHz 16QAM	4.511	4.511	4.511	4.920	4.960	4.940
10MHz QPSK	8.942	8.942	8.942	9.600	9.640	9.640
10MHz 16QAM	8.942	8.942	8.942	9.640	9.640	9.600

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

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

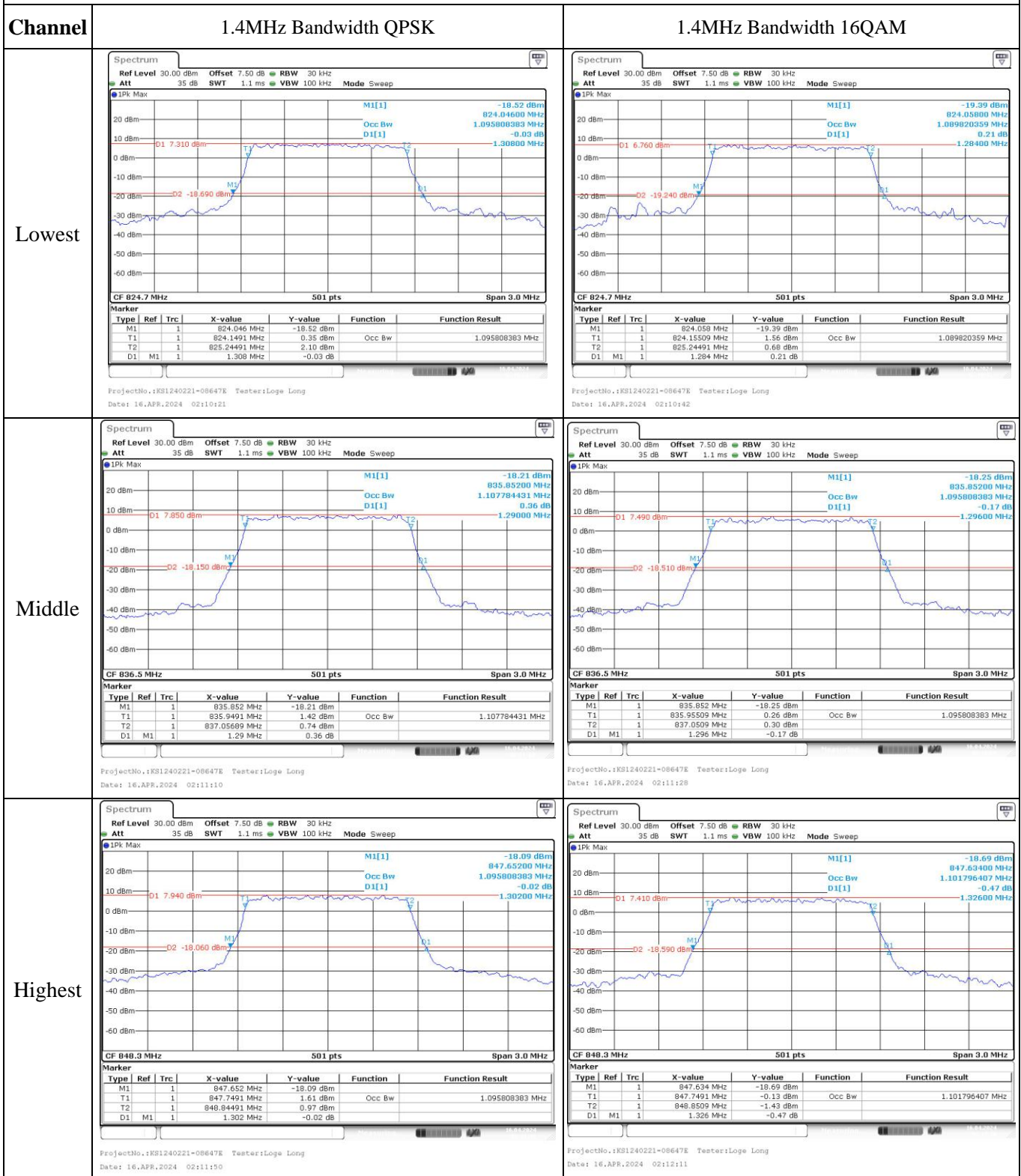
FCC §2.1051, §22.917(a):Out of band emission, Band Edge
Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §22.355: Frequency Stability					
Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	5.03	0.006	2.5
	-20	3.8	9.80	0.012	2.5
	-10	3.8	6.06	0.007	2.5
	0	3.8	-5.50	-0.007	2.5
	10	3.8	-6.97	-0.008	2.5
	20	3.8	-9.58	-0.011	2.5
	30	3.8	-6.62	-0.008	2.5
	40	3.8	-8.73	-0.010	2.5
Frequency Stability vs. Voltage	50	3.8	-7.05	-0.008	2.5
	20	3.4	8.99	0.011	2.5
Frequency Stability vs. Voltage	20	4.35	-7.17	-0.009	2.5
	Result:				Pass

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	7.54	0.009	2.5
	-20	3.8	-6.94	-0.008	2.5
	-10	3.8	9.33	0.011	2.5
	0	3.8	-8.59	-0.010	2.5
	10	3.8	8.10	0.010	2.5
	20	3.8	-7.40	-0.009	2.5
	30	3.8	6.43	0.008	2.5
	40	3.8	-6.17	-0.007	2.5
Frequency Stability vs. Voltage	50	3.8	-6.44	-0.008	2.5
	20	3.4	6.34	0.008	2.5
Frequency Stability vs. Voltage	20	4.35	-6.89	-0.008	2.5
	Result:				Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.048 MHz</td> <td>-22.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.1587 MHz</td> <td>1.35 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>826.8413 MHz</td> <td>1.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.904 MHz</td> <td>0.47 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.048 MHz	-22.06 dBm			T1	1		824.1587 MHz	1.35 dBm	Occ Bw	2.682634731 MHz	T2	1		826.8413 MHz	1.96 dBm			D1	M1	1	2.904 MHz	0.47 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.060 MHz</td> <td>-21.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.1587 MHz</td> <td>-0.12 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>826.8413 MHz</td> <td>0.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>0.86 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.060 MHz	-21.35 dBm			T1	1		824.1587 MHz	-0.12 dBm	Occ Bw	2.682634731 MHz	T2	1		826.8413 MHz	0.86 dBm			D1	M1	1	2.868 MHz	0.86 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.048 MHz	-22.06 dBm																																																																				
T1	1		824.1587 MHz	1.35 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		826.8413 MHz	1.96 dBm																																																																				
D1	M1	1	2.904 MHz	0.47 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.060 MHz	-21.35 dBm																																																																				
T1	1		824.1587 MHz	-0.12 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		826.8413 MHz	0.86 dBm																																																																				
D1	M1	1	2.868 MHz	0.86 dB																																																																				
Middle	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>835.072 MHz</td> <td>-19.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>835.1707 MHz</td> <td>0.52 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>837.8533 MHz</td> <td>-0.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.868 MHz</td> <td>-0.38 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		835.072 MHz	-19.83 dBm			T1	1		835.1707 MHz	0.52 dBm	Occ Bw	2.682634731 MHz	T2	1		837.8533 MHz	-0.30 dBm			D1	M1	1	2.868 MHz	-0.38 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>835.072 MHz</td> <td>-21.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>835.1707 MHz</td> <td>-0.29 dBm</td> <td>Occ Bw</td> <td>2.670658683 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>837.8413 MHz</td> <td>0.58 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.88 MHz</td> <td>0.54 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		835.072 MHz	-21.66 dBm			T1	1		835.1707 MHz	-0.29 dBm	Occ Bw	2.670658683 MHz	T2	1		837.8413 MHz	0.58 dBm			D1	M1	1	2.88 MHz	0.54 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		835.072 MHz	-19.83 dBm																																																																				
T1	1		835.1707 MHz	0.52 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		837.8533 MHz	-0.30 dBm																																																																				
D1	M1	1	2.868 MHz	-0.38 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		835.072 MHz	-21.66 dBm																																																																				
T1	1		835.1707 MHz	-0.29 dBm	Occ Bw	2.670658683 MHz																																																																		
T2	1		837.8413 MHz	0.58 dBm																																																																				
D1	M1	1	2.88 MHz	0.54 dB																																																																				
Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>846.060 MHz</td> <td>-21.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>846.1587 MHz</td> <td>0.34 dBm</td> <td>Occ Bw</td> <td>2.694610778 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.8533 MHz</td> <td>1.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.88 MHz</td> <td>-0.18 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		846.060 MHz	-21.41 dBm			T1	1		846.1587 MHz	0.34 dBm	Occ Bw	2.694610778 MHz	T2	1		848.8533 MHz	1.26 dBm			D1	M1	1	2.88 MHz	-0.18 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>846.060 MHz</td> <td>-22.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>846.1587 MHz</td> <td>0.74 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.8413 MHz</td> <td>-0.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>2.88 MHz</td> <td>0.58 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		846.060 MHz	-22.74 dBm			T1	1		846.1587 MHz	0.74 dBm	Occ Bw	2.682634731 MHz	T2	1		848.8413 MHz	-0.12 dBm			D1	M1	1	2.88 MHz	0.58 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		846.060 MHz	-21.41 dBm																																																																				
T1	1		846.1587 MHz	0.34 dBm	Occ Bw	2.694610778 MHz																																																																		
T2	1		848.8533 MHz	1.26 dBm																																																																				
D1	M1	1	2.88 MHz	-0.18 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		846.060 MHz	-22.74 dBm																																																																				
T1	1		846.1587 MHz	0.74 dBm	Occ Bw	2.682634731 MHz																																																																		
T2	1		848.8413 MHz	-0.12 dBm																																																																				
D1	M1	1	2.88 MHz	0.58 dB																																																																				

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM																																																																						
Lowest	<p>CF 826.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.02 MHz</td> <td>-19.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.2445 MHz</td> <td>2.81 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>828.7555 MHz</td> <td>1.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.96 MHz</td> <td>0.19 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 03:59:03</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.02 MHz	-19.29 dBm			T1	1		824.2445 MHz	2.81 dBm	Occ Bw	4.510978044 MHz	T2	1		828.7555 MHz	1.82 dBm			D1	M1	1	4.96 MHz	0.19 dB			<p>CF 826.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>824.04 MHz</td> <td>-19.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>824.2445 MHz</td> <td>1.86 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>828.7555 MHz</td> <td>2.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.92 MHz</td> <td>0.02 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 03:59:34</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		824.04 MHz	-19.75 dBm			T1	1		824.2445 MHz	1.86 dBm	Occ Bw	4.510978044 MHz	T2	1		828.7555 MHz	2.40 dBm			D1	M1	1	4.92 MHz	0.02 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.02 MHz	-19.29 dBm																																																																				
T1	1		824.2445 MHz	2.81 dBm	Occ Bw	4.510978044 MHz																																																																		
T2	1		828.7555 MHz	1.82 dBm																																																																				
D1	M1	1	4.96 MHz	0.19 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		824.04 MHz	-19.75 dBm																																																																				
T1	1		824.2445 MHz	1.86 dBm	Occ Bw	4.510978044 MHz																																																																		
T2	1		828.7555 MHz	2.40 dBm																																																																				
D1	M1	1	4.92 MHz	0.02 dB																																																																				
Middle	<p>CF 836.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>834.06 MHz</td> <td>-18.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>834.2645 MHz</td> <td>2.39 dBm</td> <td>Occ Bw</td> <td>4.491017964 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>838.7555 MHz</td> <td>4.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.92 MHz</td> <td>-0.12 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 04:00:04</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		834.06 MHz	-18.23 dBm			T1	1		834.2645 MHz	2.39 dBm	Occ Bw	4.491017964 MHz	T2	1		838.7555 MHz	4.22 dBm			D1	M1	1	4.92 MHz	-0.12 dB			<p>CF 836.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>834.04 MHz</td> <td>-19.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>834.2645 MHz</td> <td>0.97 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>838.7555 MHz</td> <td>1.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.96 MHz</td> <td>-0.83 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 04:00:32</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		834.04 MHz	-19.26 dBm			T1	1		834.2645 MHz	0.97 dBm	Occ Bw	4.510978044 MHz	T2	1		838.7555 MHz	1.40 dBm			D1	M1	1	4.96 MHz	-0.83 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		834.06 MHz	-18.23 dBm																																																																				
T1	1		834.2645 MHz	2.39 dBm	Occ Bw	4.491017964 MHz																																																																		
T2	1		838.7555 MHz	4.22 dBm																																																																				
D1	M1	1	4.92 MHz	-0.12 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		834.04 MHz	-19.26 dBm																																																																				
T1	1		834.2645 MHz	0.97 dBm	Occ Bw	4.510978044 MHz																																																																		
T2	1		838.7555 MHz	1.40 dBm																																																																				
D1	M1	1	4.96 MHz	-0.83 dB																																																																				
Highest	<p>CF 846.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>844.02 MHz</td> <td>-19.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>844.2445 MHz</td> <td>4.20 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.7555 MHz</td> <td>2.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.96 MHz</td> <td>-0.43 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 04:01:02</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		844.02 MHz	-19.05 dBm			T1	1		844.2445 MHz	4.20 dBm	Occ Bw	4.510978044 MHz	T2	1		848.7555 MHz	2.25 dBm			D1	M1	1	4.96 MHz	-0.43 dB			<p>CF 846.5 MHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>844.02 MHz</td> <td>-18.51 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>844.2445 MHz</td> <td>1.13 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>848.7555 MHz</td> <td>1.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.94 MHz</td> <td>-0.56 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 16.APR.2024 04:01:30</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		844.02 MHz	-18.51 dBm			T1	1		844.2445 MHz	1.13 dBm	Occ Bw	4.510978044 MHz	T2	1		848.7555 MHz	1.20 dBm			D1	M1	1	4.94 MHz	-0.56 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		844.02 MHz	-19.05 dBm																																																																				
T1	1		844.2445 MHz	4.20 dBm	Occ Bw	4.510978044 MHz																																																																		
T2	1		848.7555 MHz	2.25 dBm																																																																				
D1	M1	1	4.96 MHz	-0.43 dB																																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																																																		
M1	1		844.02 MHz	-18.51 dBm																																																																				
T1	1		844.2445 MHz	1.13 dBm	Occ Bw	4.510978044 MHz																																																																		
T2	1		848.7555 MHz	1.20 dBm																																																																				
D1	M1	1	4.94 MHz	-0.56 dB																																																																				

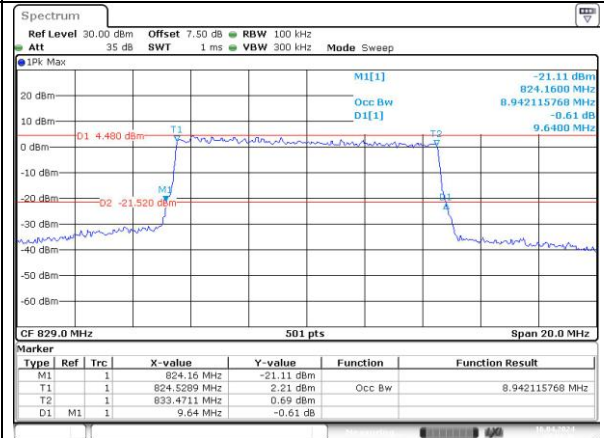
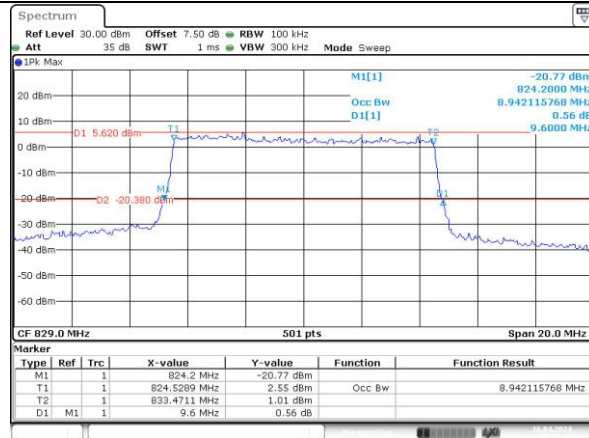
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

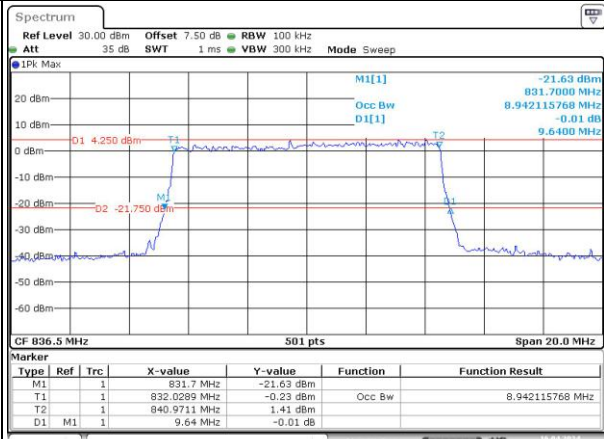
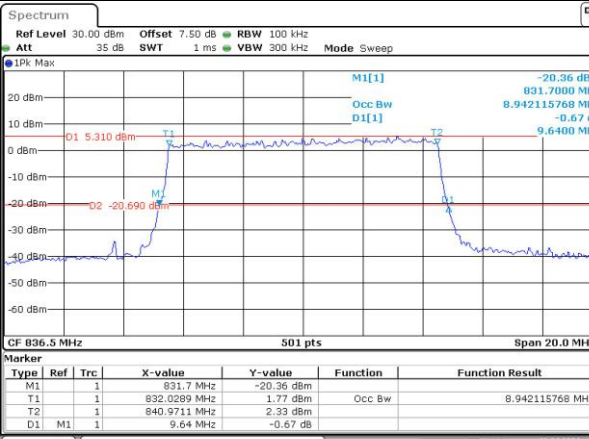
Lowest



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:04:17

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:04:50

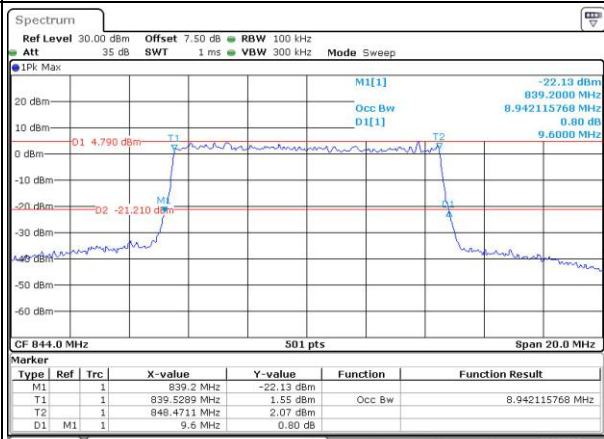
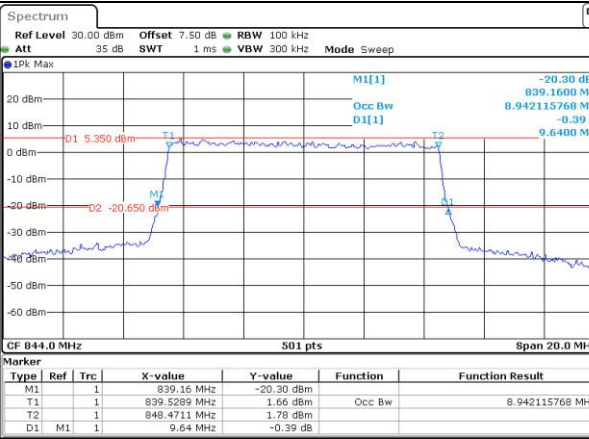
Middle



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:05:27

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:06:03

Highest



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:06:37

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 16.APR.2024 04:07:16

1RB:

Spurious Emissions at Antenna Terminal

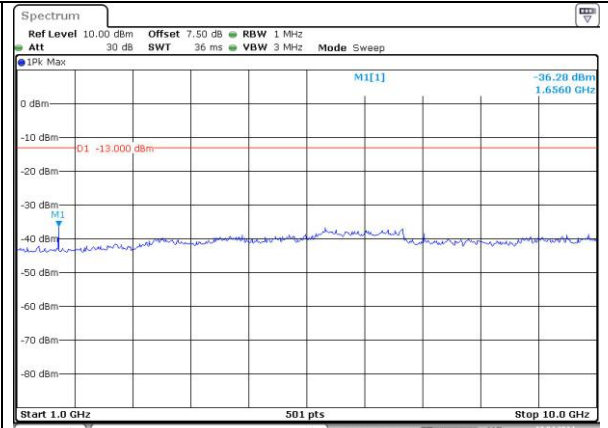
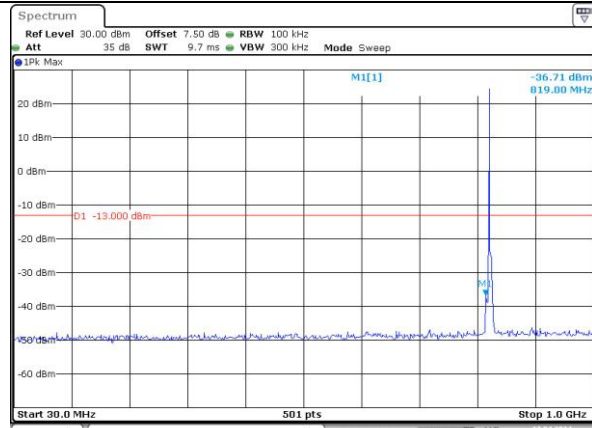
Channel	1.4MHz Bandwidth QPSK	
Lowest	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -46.54 dBm 789.90 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:23:18</p>	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 1 MHz Att 30 dB SWT 36 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -36.29 dBm 1.6560 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 10.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:24:00</p>
Middle	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -46.35 dBm 946.80 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:24:41</p>	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 1 MHz Att 30 dB SWT 36 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -36.71 dBm 1.6740 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 10.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:25:04</p>
Highest	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -46.27 dBm 609.90 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:25:46</p>	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 1 MHz Att 30 dB SWT 36 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -36.90 dBm 6.9910 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 10.0 GHz</p> <p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:26:15</p>

Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

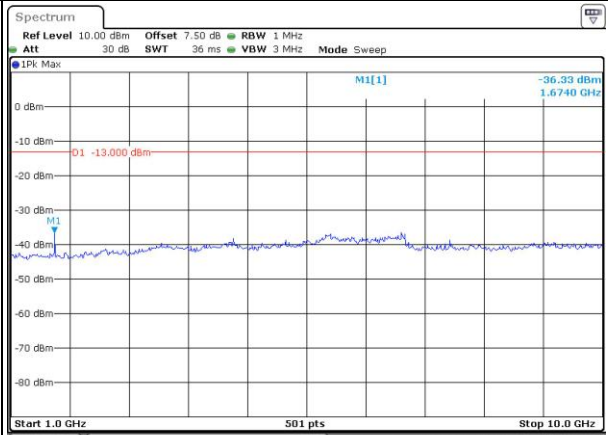
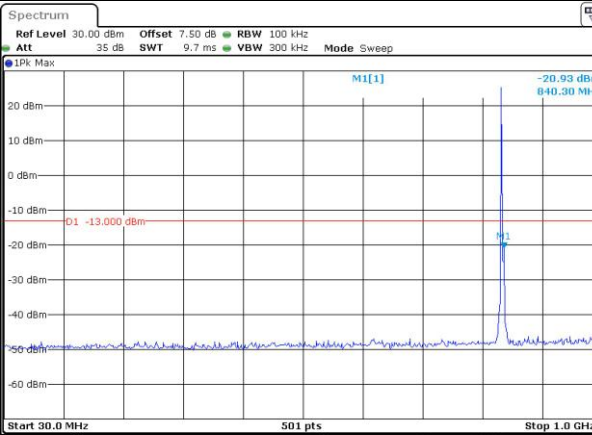
Lowest



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:27:40

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:28:09

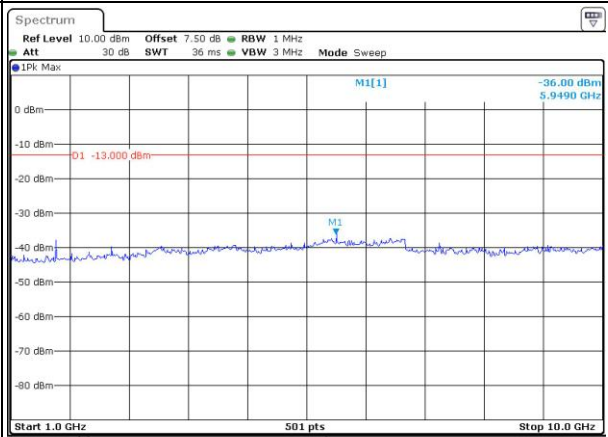
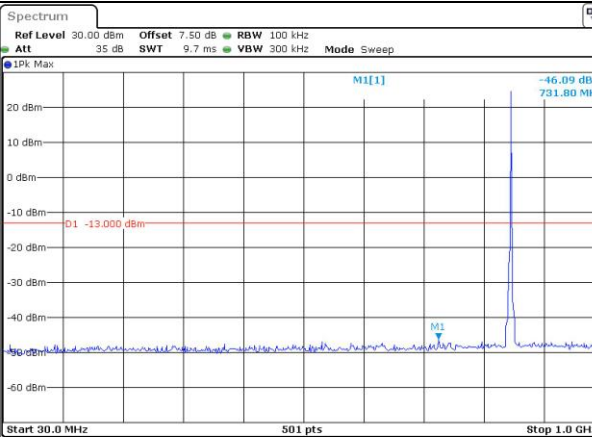
Middle



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:28:59

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:29:25

Highest



ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:30:04

ProjectNo.:KS1240221-08647E Tester:Loge Long
Date: 17.APR.2024 21:30:23

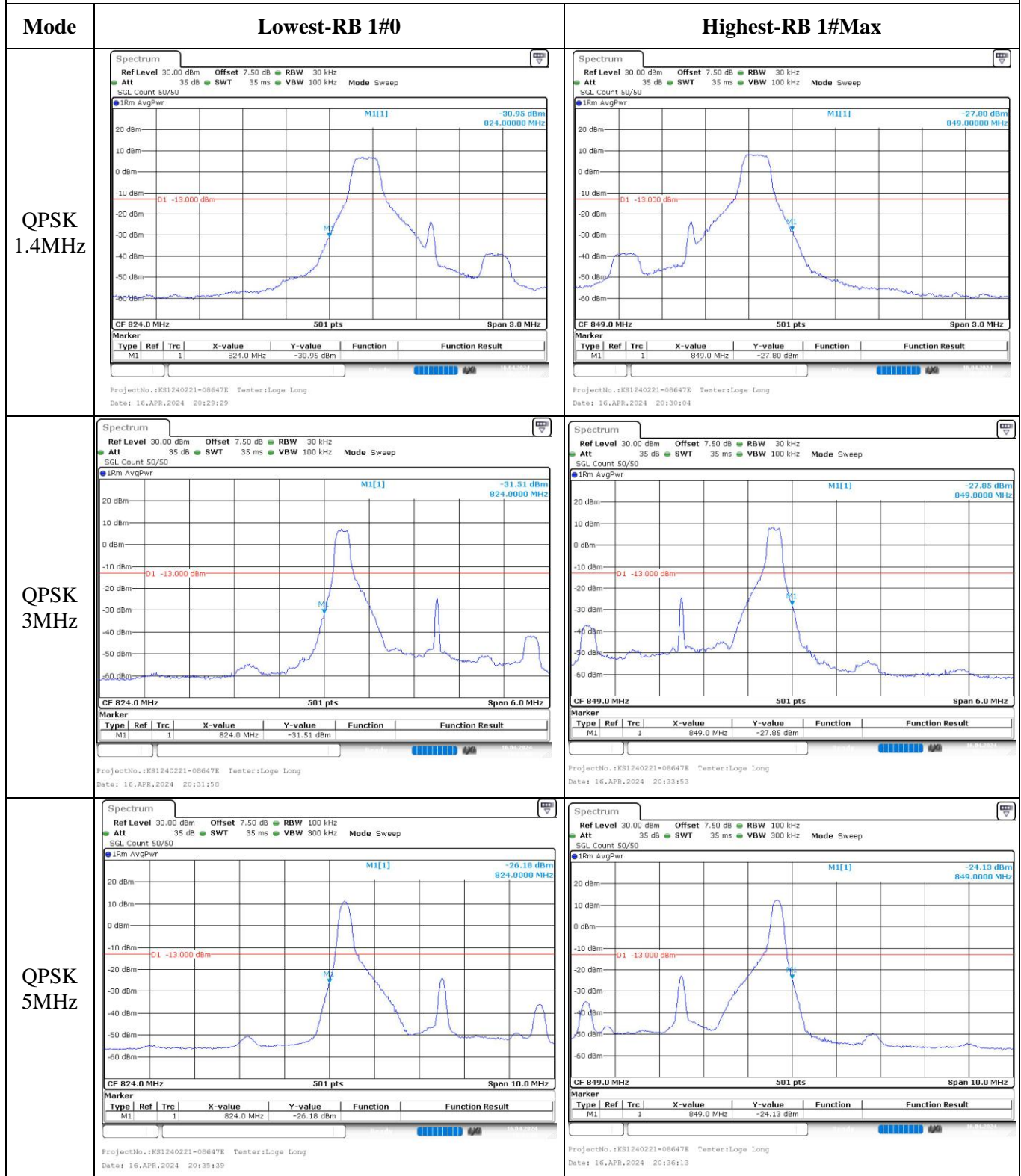
Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:31:34</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:31:59</p>
Middle	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:32:41</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:33:04</p>
Highest	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:33:44</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:34:03</p>

Spurious Emissions at Antenna Terminal

Channel	10MHz Bandwidth QPSK	
Lowest	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:35:12</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:35:31</p>
Middle	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:36:14</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:36:46</p>
Highest	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:37:23</p>	<p>ProjectNo.:KS1240221-08647E Tester:Loge Long Date: 17.APR.2024 21:37:52</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

