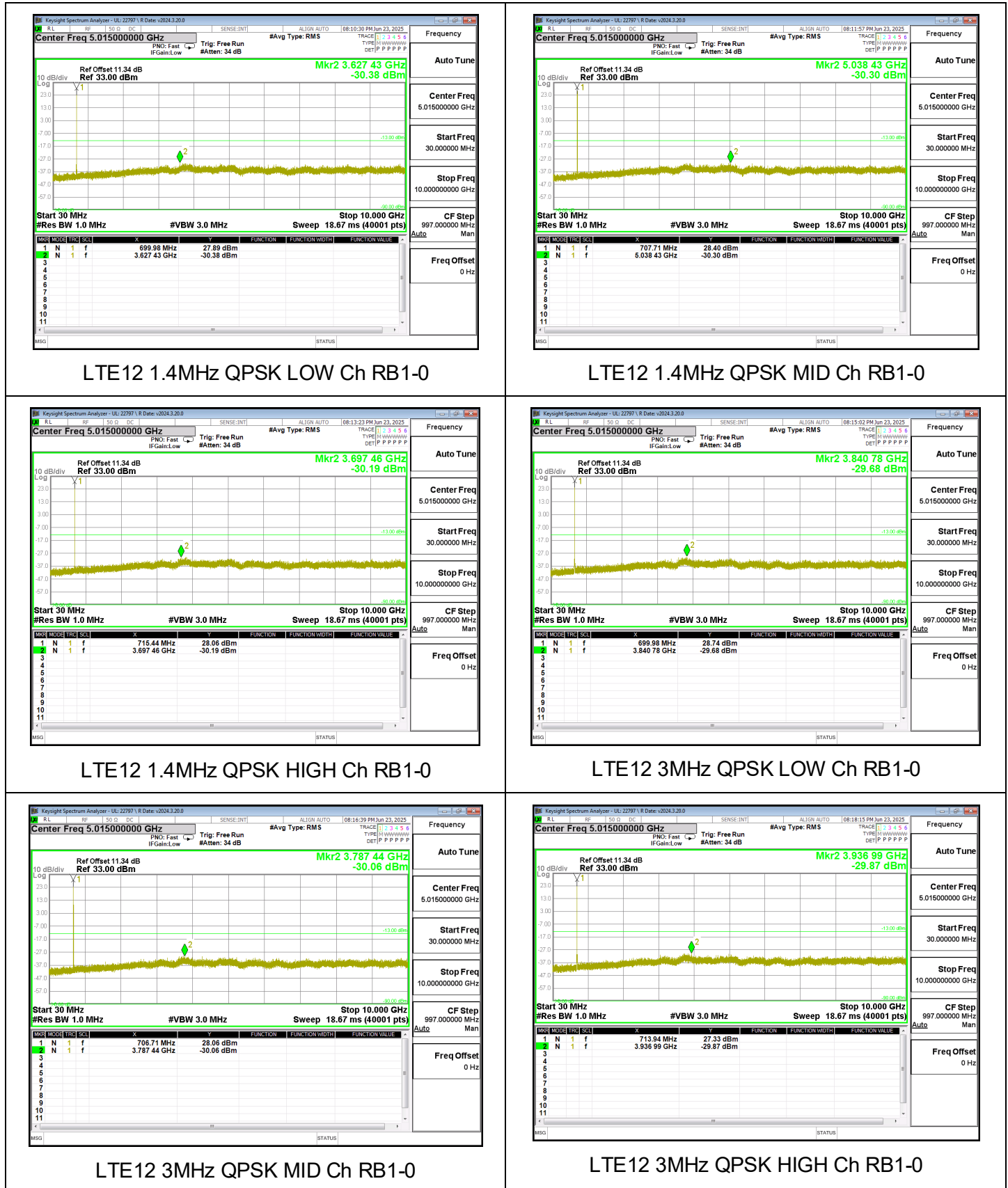
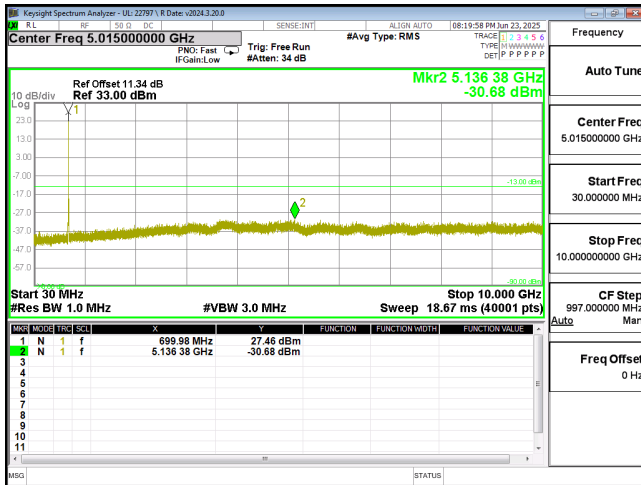
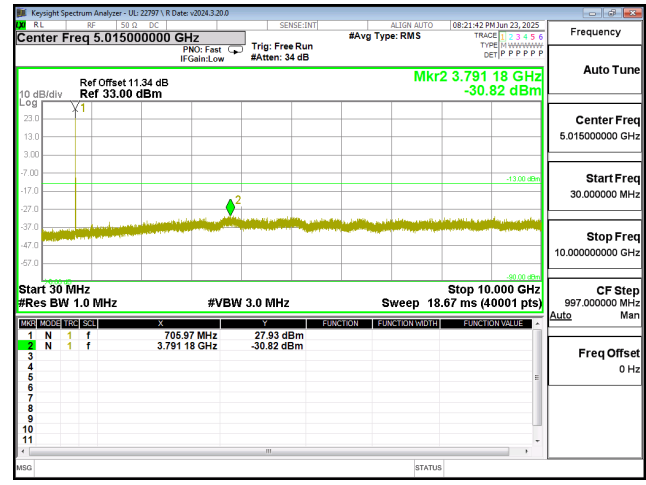


9.2.7. LTE12

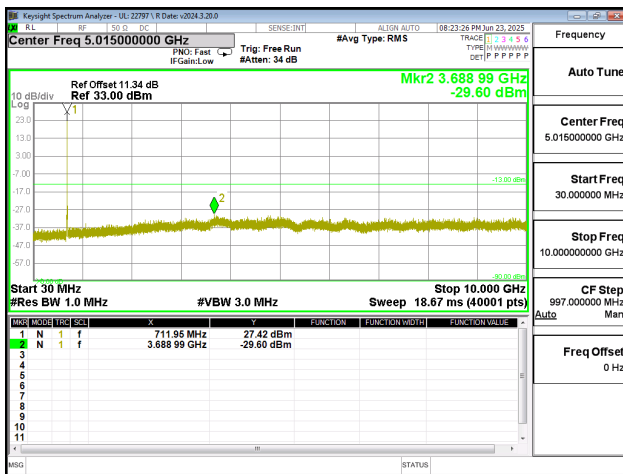




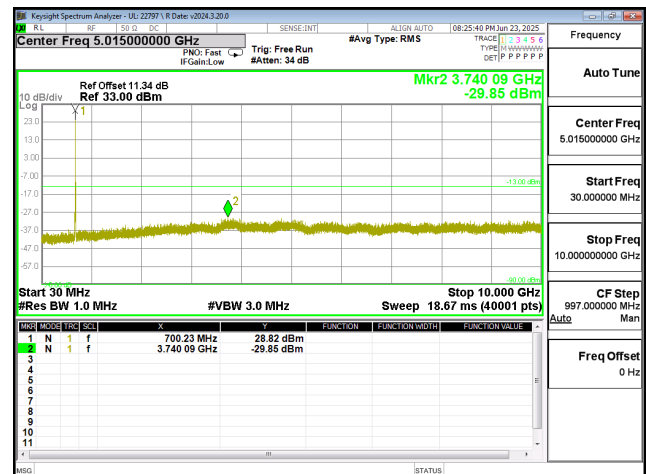
LTE12 5MHz QPSK LOW Ch RB1-0



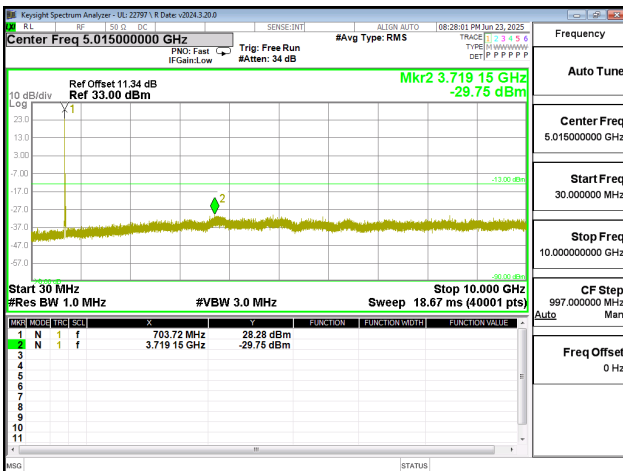
LTE12 5MHz QPSK MID Ch RB1-0



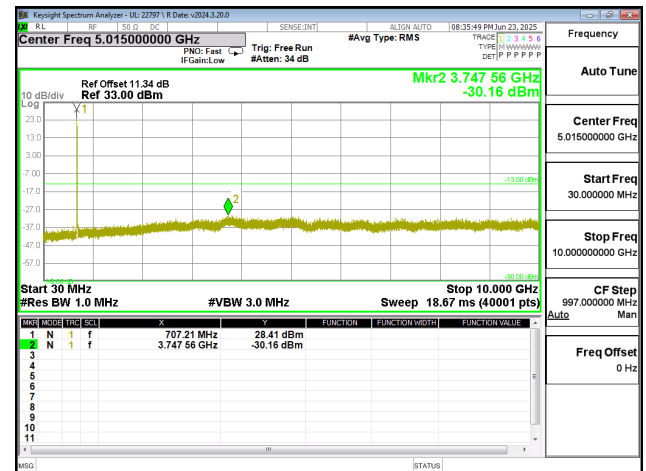
LTE12 5MHz QPSK HIGH Ch RB1-0



LTE12 10MHz QPSK LOW Ch RB1-0

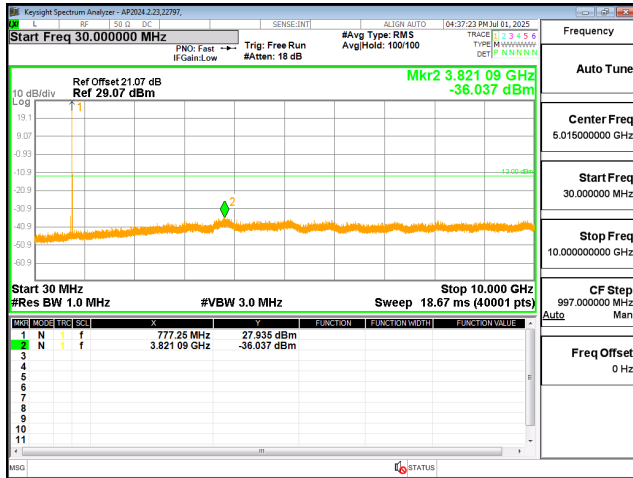


LTE12 10MHz QPSK MID Ch RB1-0

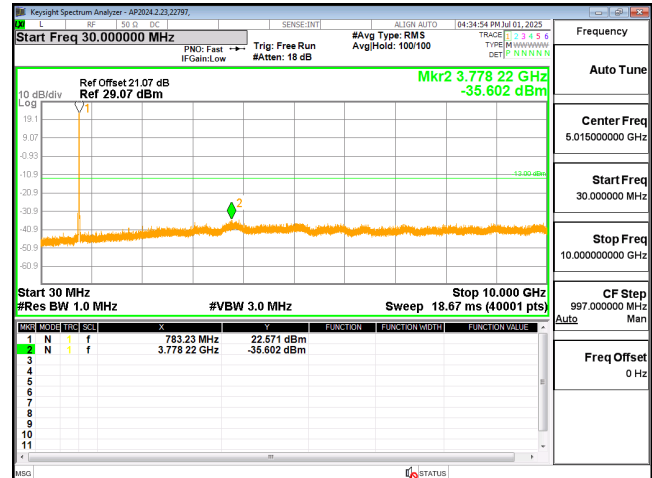


LTE12 10MHz QPSK HIGH Ch RB1-0

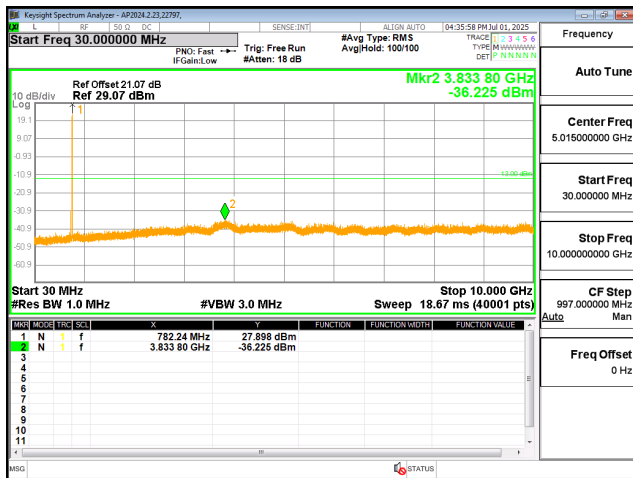
9.2.8. LTE13



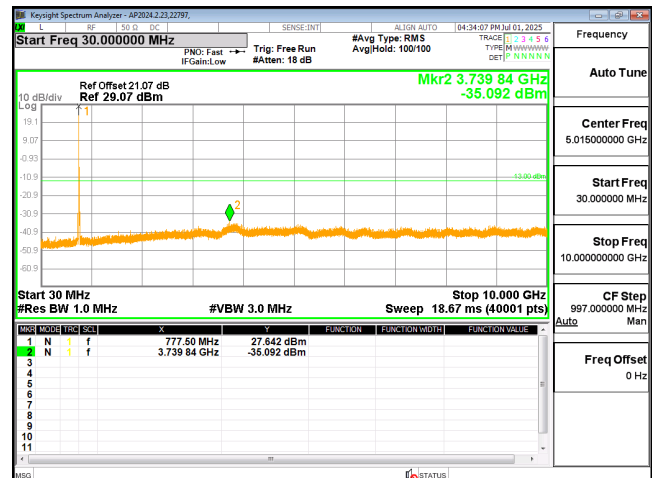
LTE13 5MHz QPSK LOW Ch RB1-0



LTE13 5MHz QPSK MID Ch RB1-0

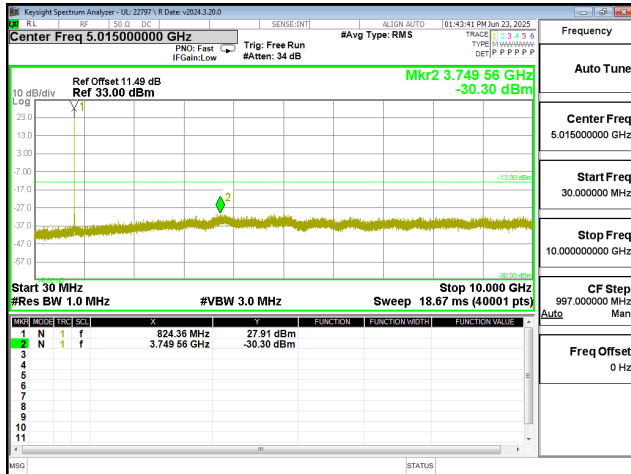


LTE13 5MHz QPSK HIGH Ch RB1-0

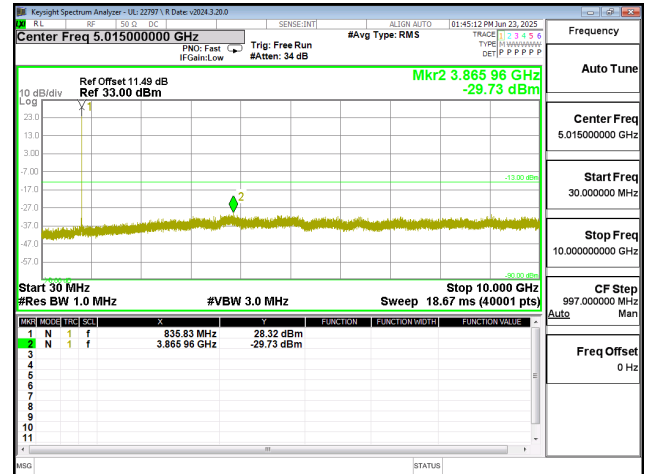


LTE13 10MHz QPSK MID Ch RB1-0

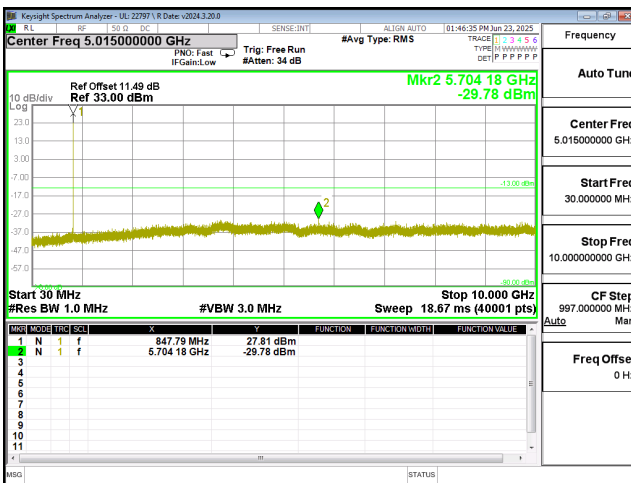
9.2.1. LTE26 (Part 22H)



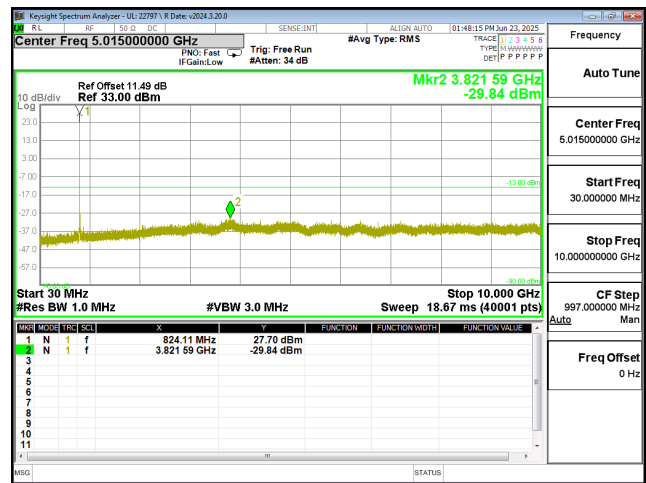
LTE26 1.4MHz QPSK LOW Ch RB1-0



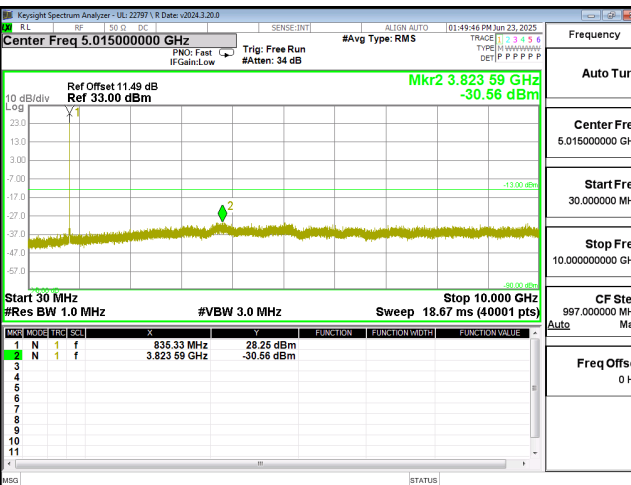
LTE26 1.4MHz QPSK MID Ch RB1-0



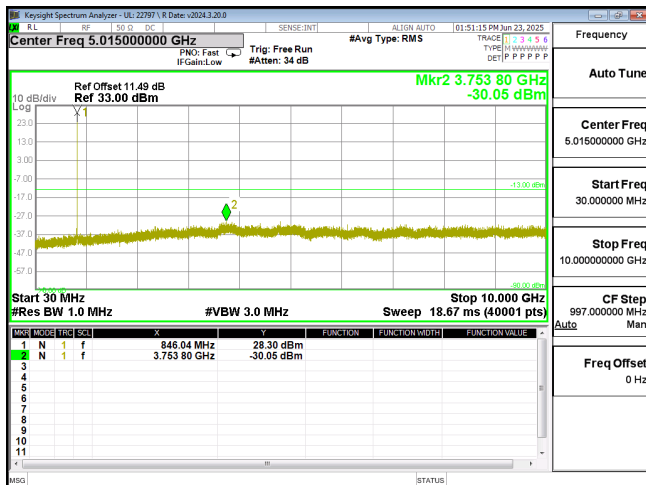
LTE26 1.4MHz QPSK HIGH Ch RB1-0



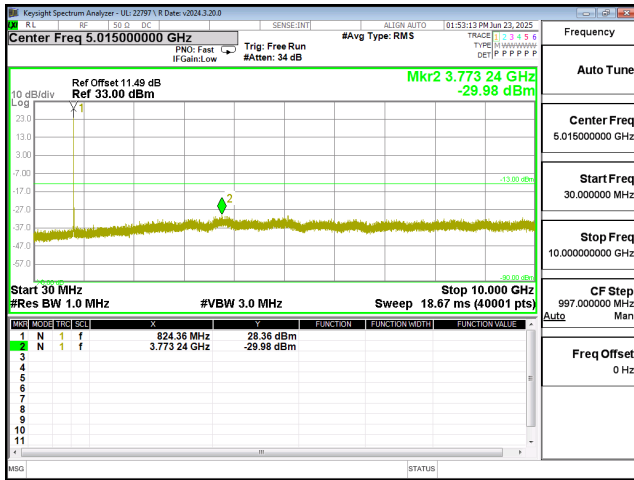
LTE26 3MHz QPSK LOW Ch RB1-0



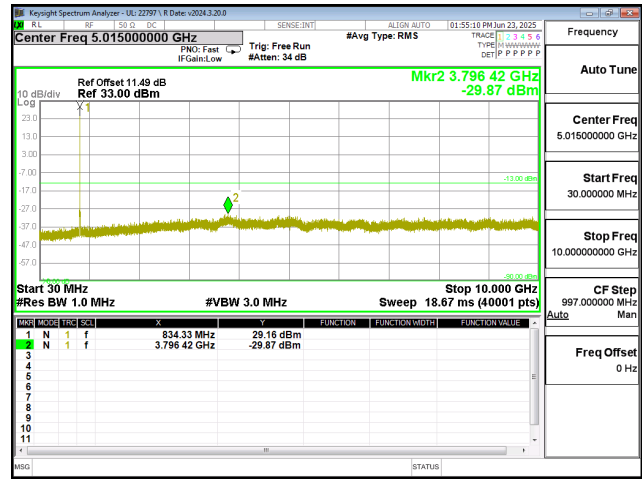
LTE26 3MHz QPSK MID Ch RB1-0



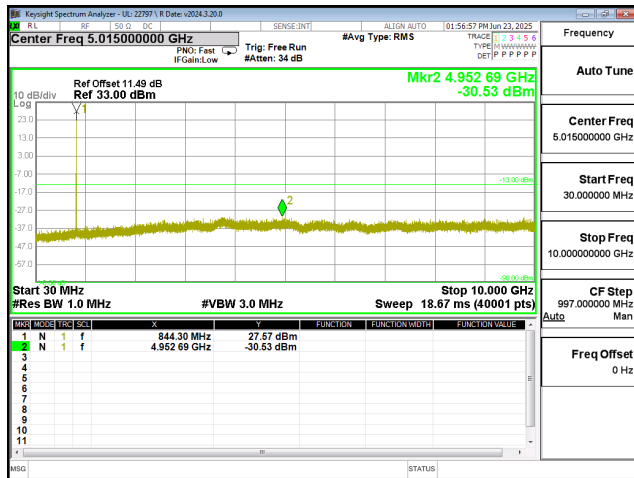
LTE26 3MHz QPSK HIGH Ch RB1-0



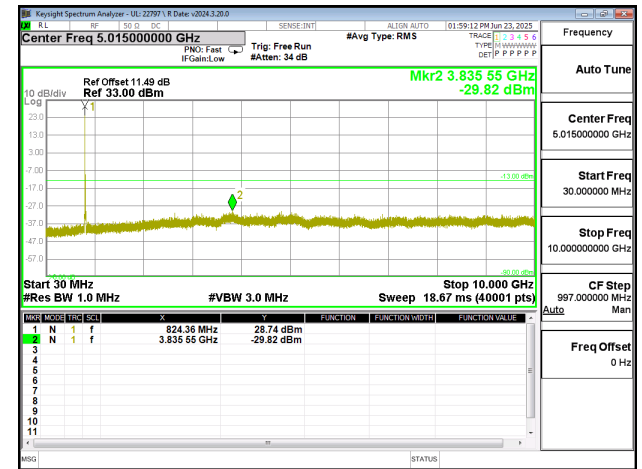
LTE26 5MHz QPSK LOW Ch RB1-0



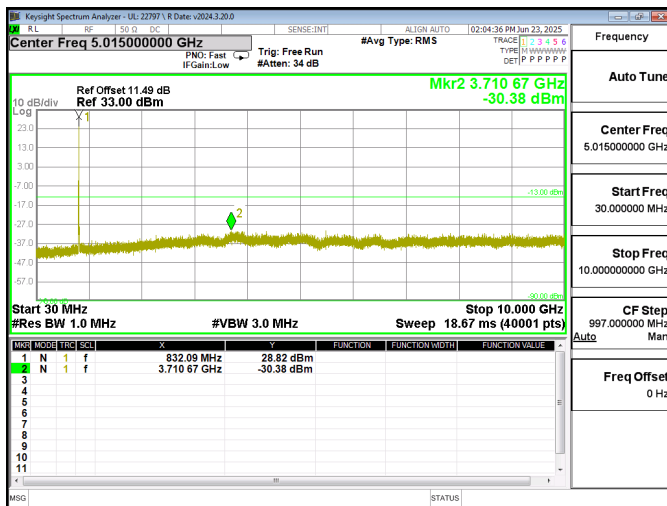
LTE26 5MHz QPSK MID Ch RB1-0



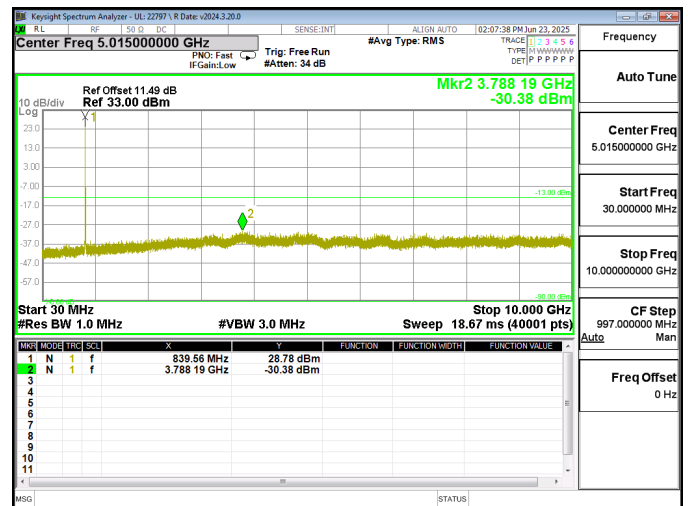
LTE26 5MHz QPSK HIGH Ch RB1-0



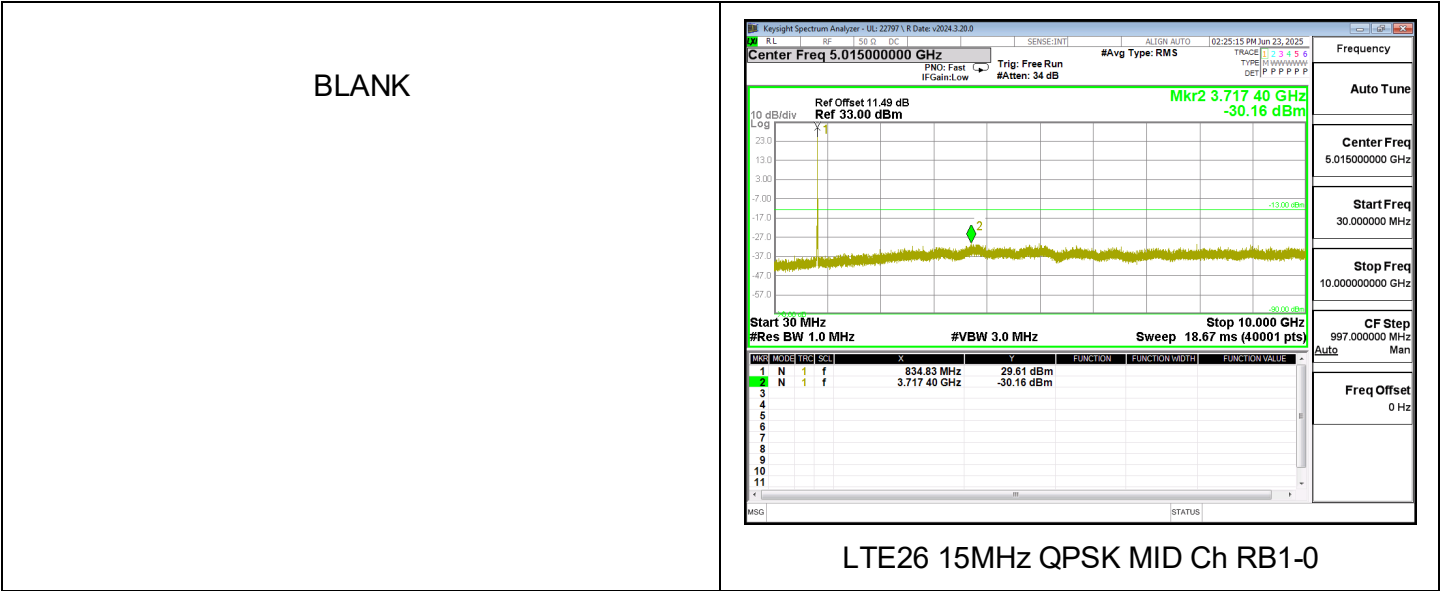
LTE26 10MHz QPSK LOW Ch RB1-0



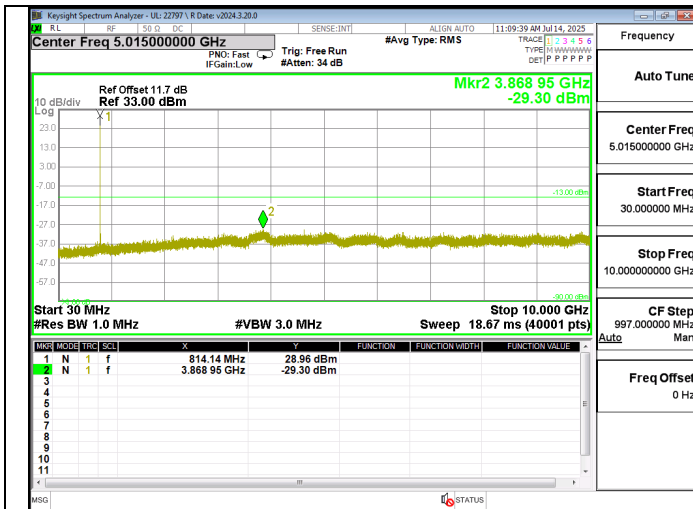
LTE26 10MHz QPSK MID Ch RB1-0



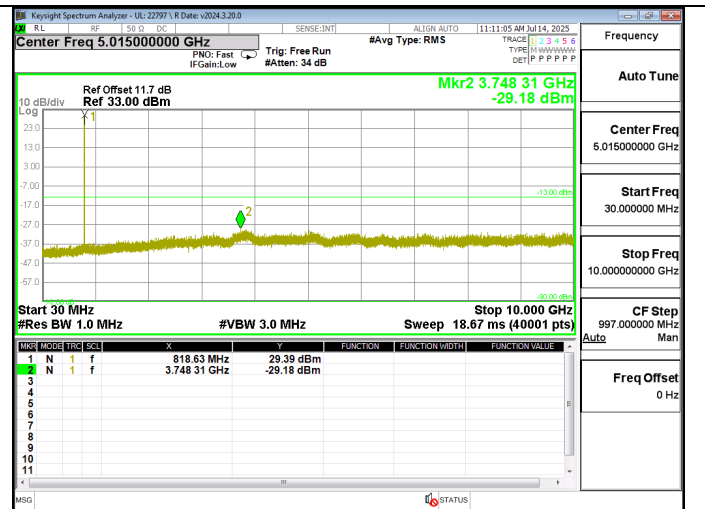
LTE26 10MHz QPSK HIGH Ch RB1-0



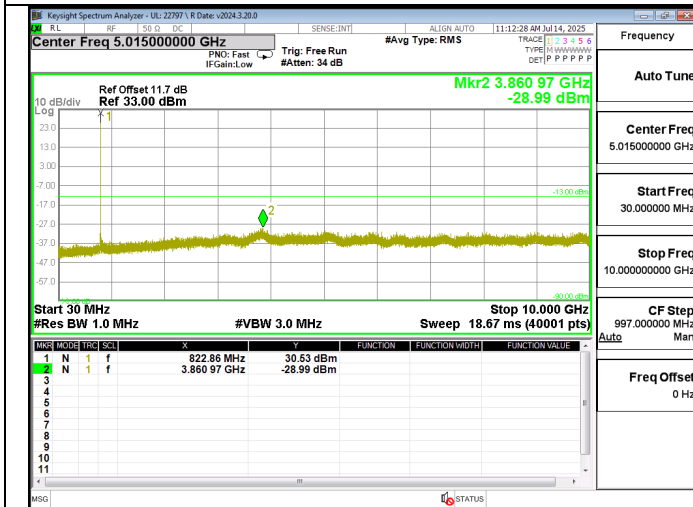
9.2.1. LTE26 (Part 90S)



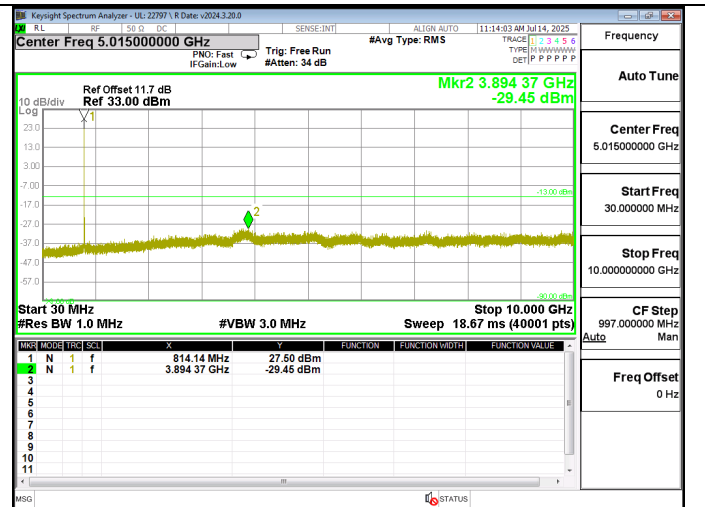
LTE26 1.4MHz QPSK LOW Ch RB1-0



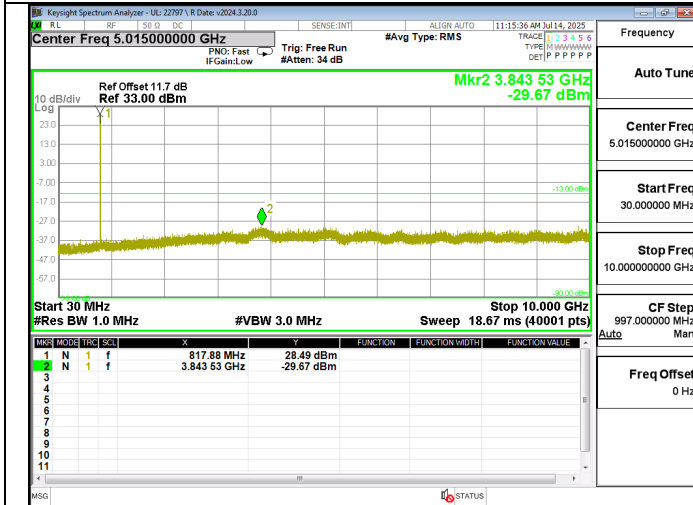
LTE26 1.4MHz QPSK MID Ch RB1-0



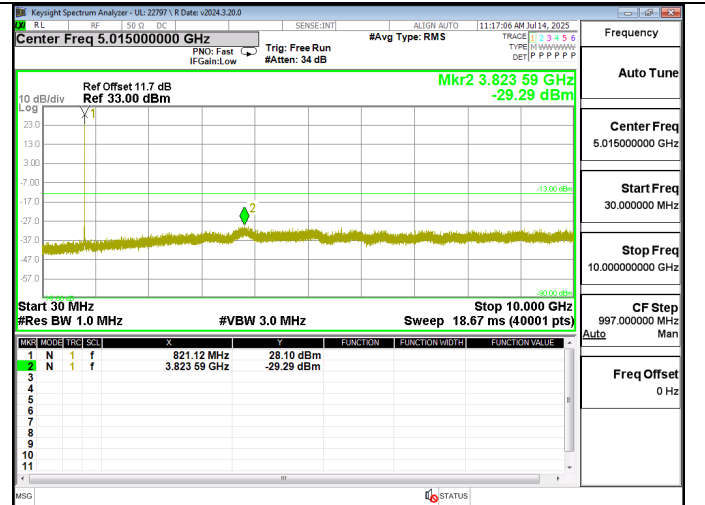
LTE26 1.4MHz QPSK HIGH Ch RB1-0



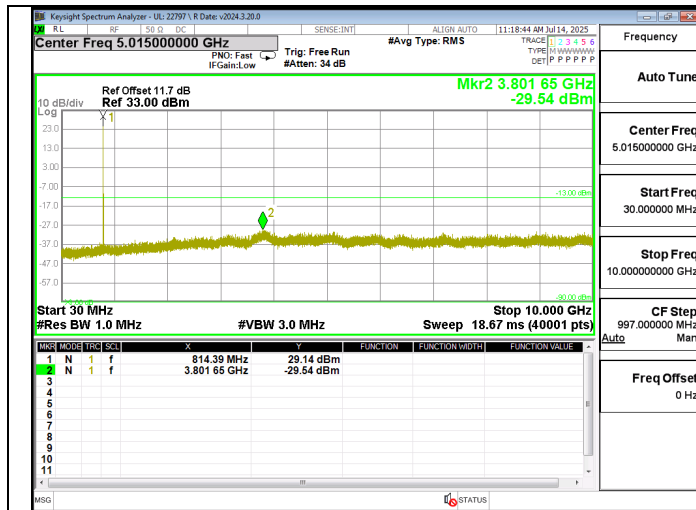
LTE26 3MHz QPSK LOW Ch RB1-0



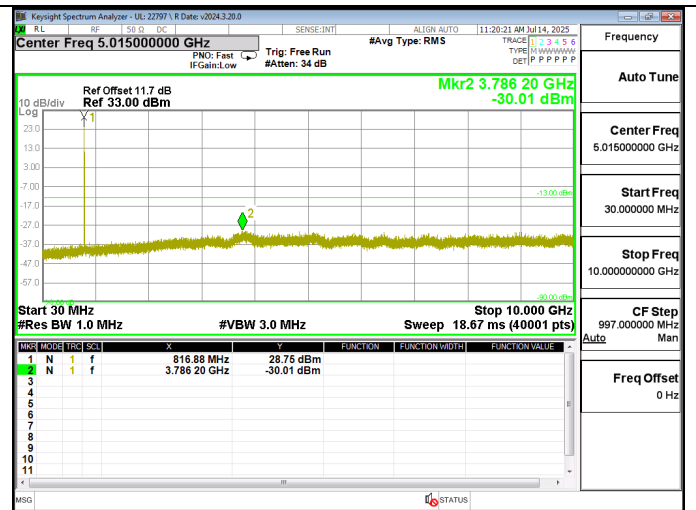
LTE26 3MHz QPSK MID Ch RB1-0



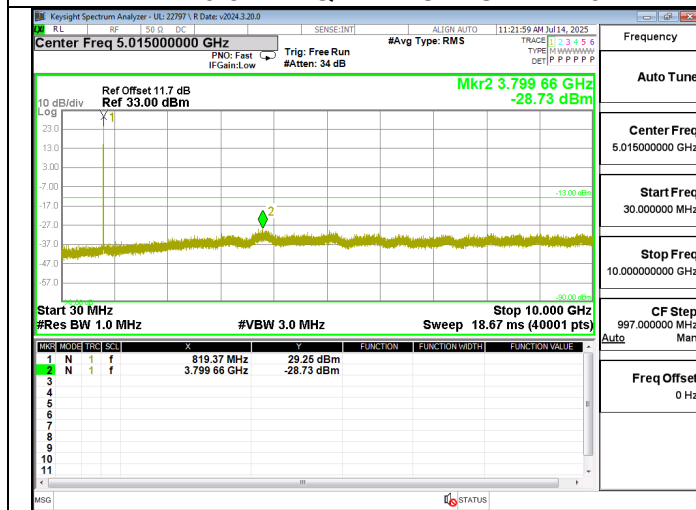
LTE26 3MHz QPSK HIGH Ch RB1-0



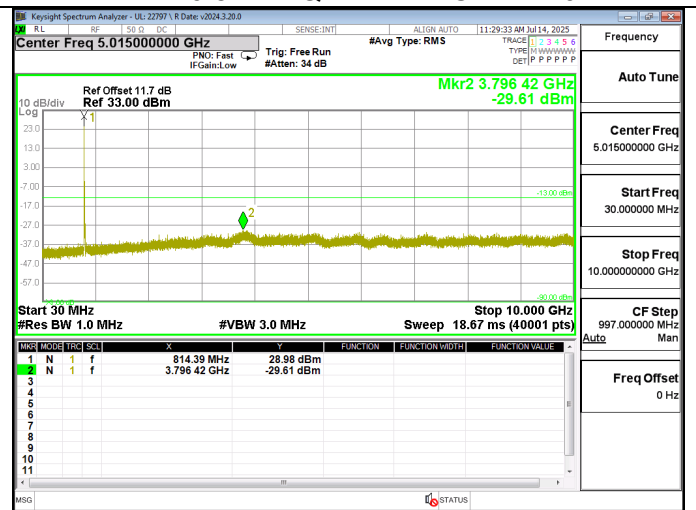
LTE26 5MHz QPSK LOW Ch RB1-0



LTE26 5MHz QPSK MID Ch RB1-0

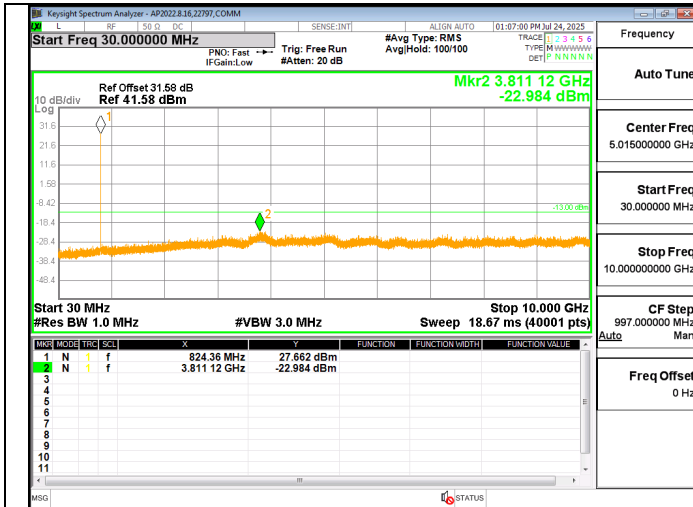


LTE26 5MHz QPSK HIGH Ch RB1-0

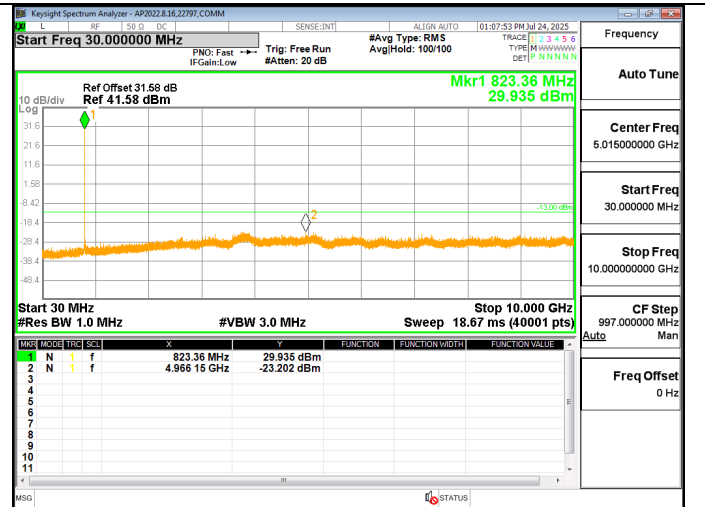


LTE26 10MHz QPSK MID Ch RB1-0

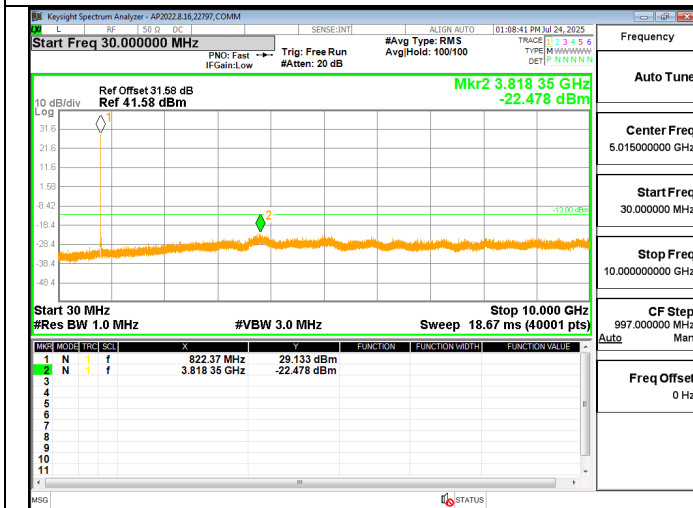
9.2.2. LTE BAND 26 (STRADDLE)



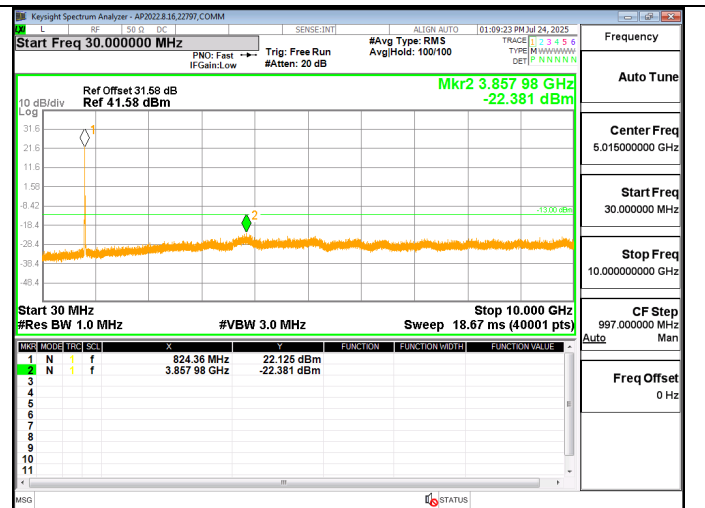
LTE BAND 26 SRADDLE 1.4MHz RB1-0



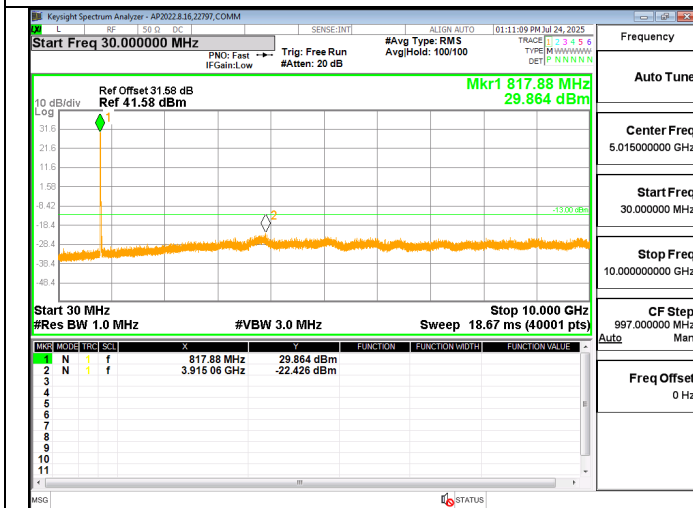
LTE BAND 26 SRADDLE 3MHz RB1-0



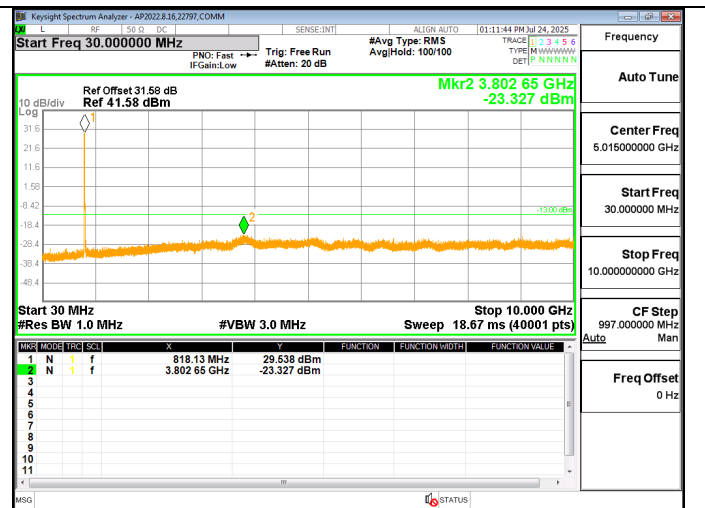
LTE BAND 26 SRADDLE 5MHz RB1-0



LTE BAND 26 SRADDLE 10MHz RB1-0



LTE BAND 26 SRADDLE 15MHz RB1-0

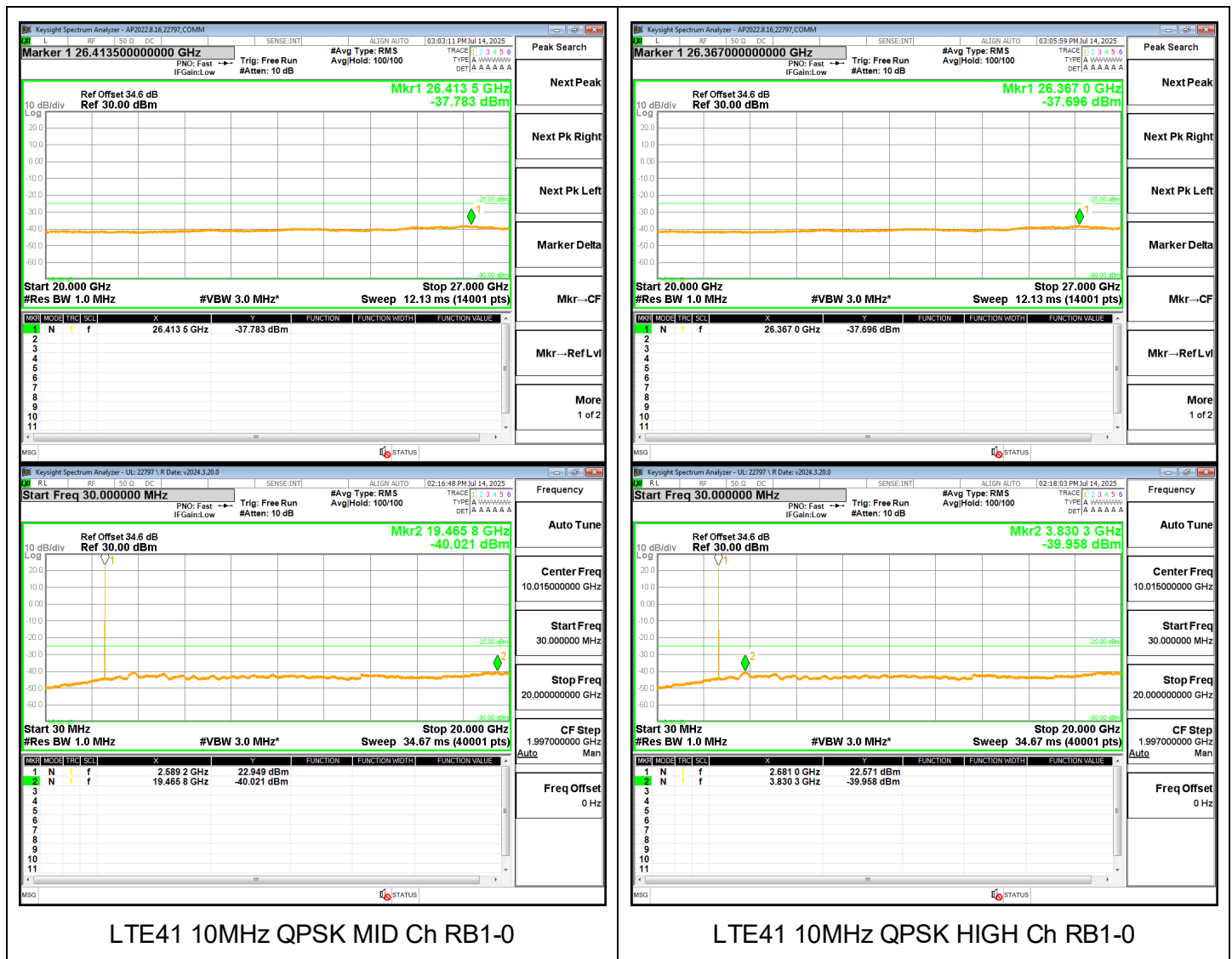


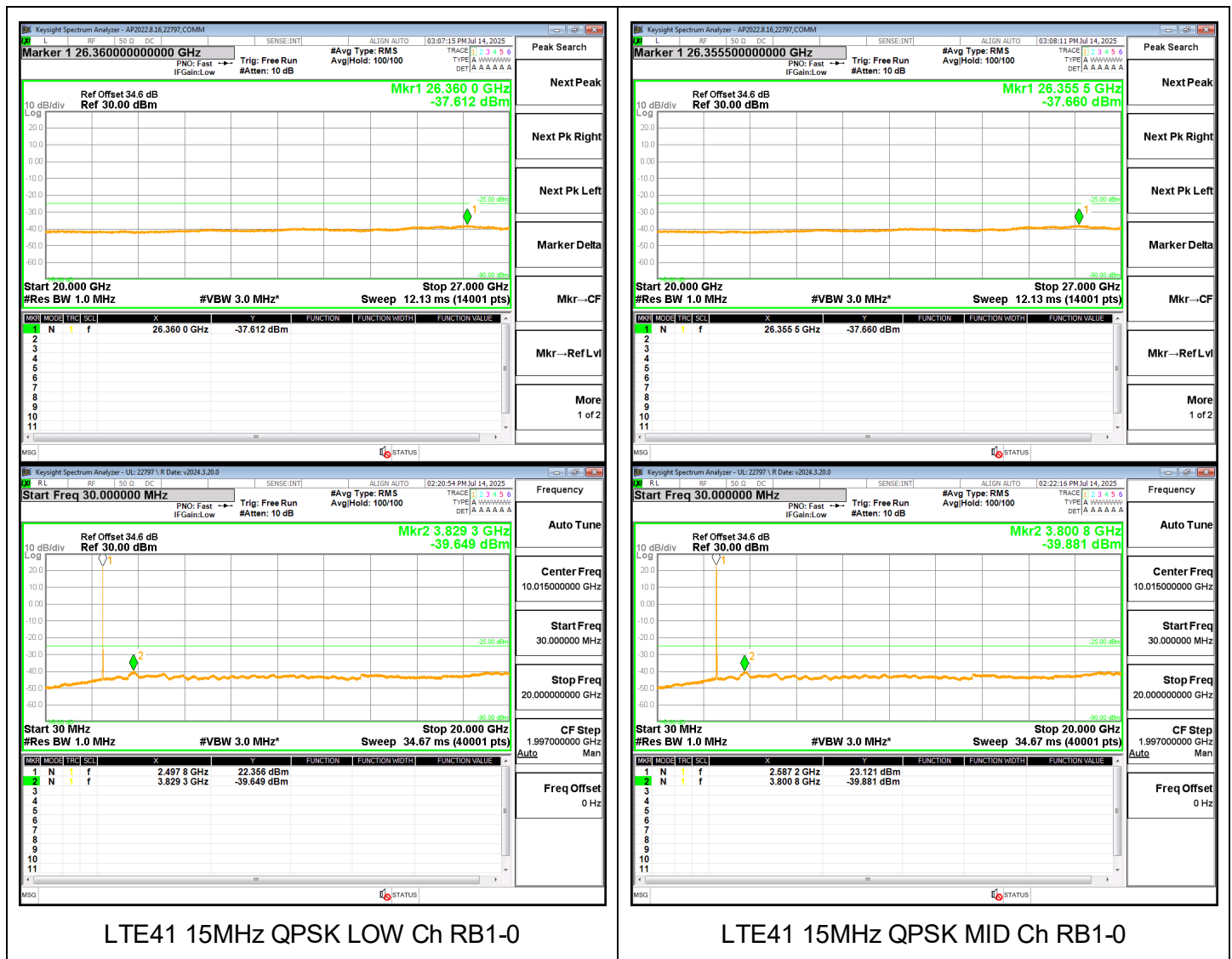
LTE BAND 26 SRADDLE 15MHz 16QAM RB1-0

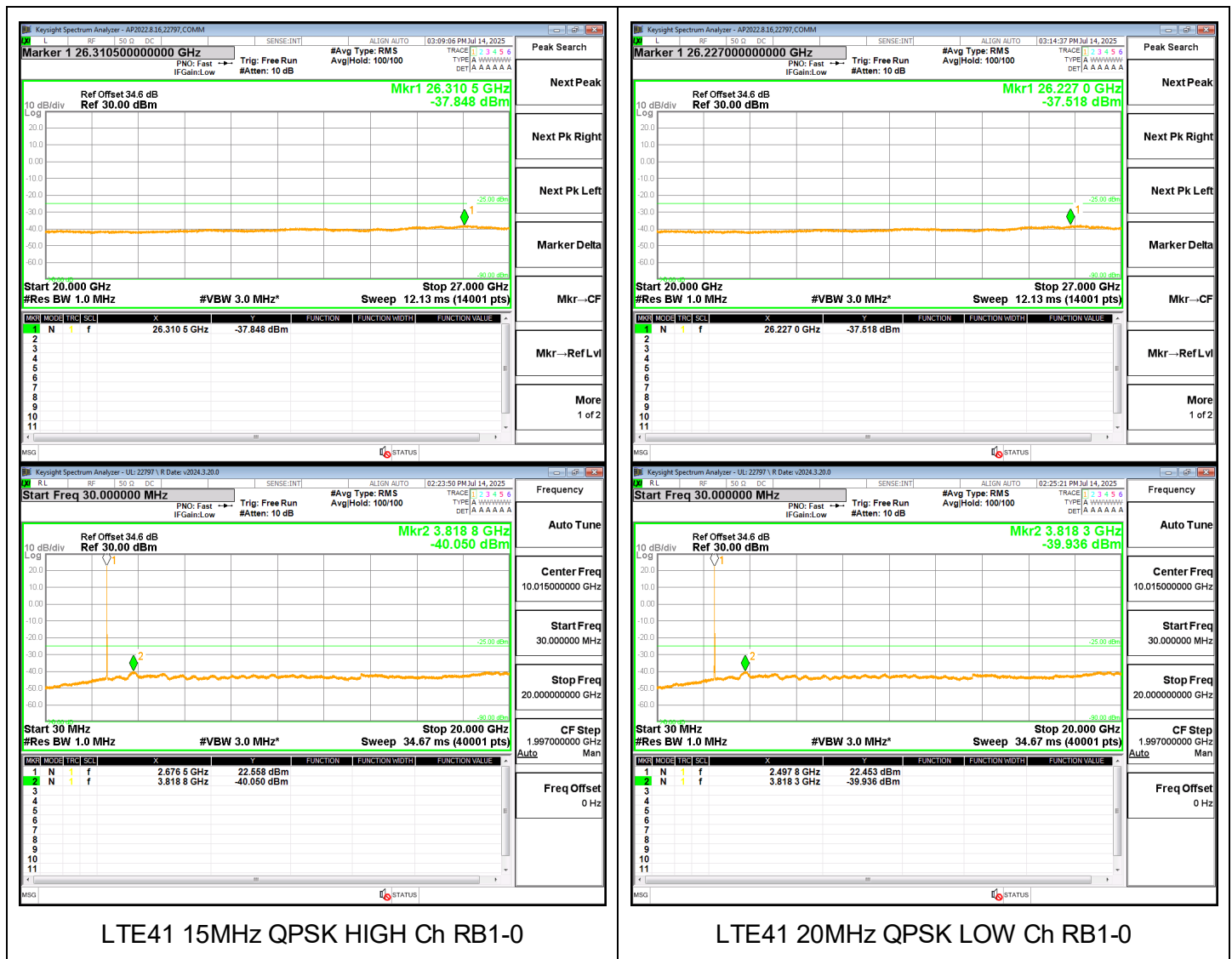
9.2.3. LTE41









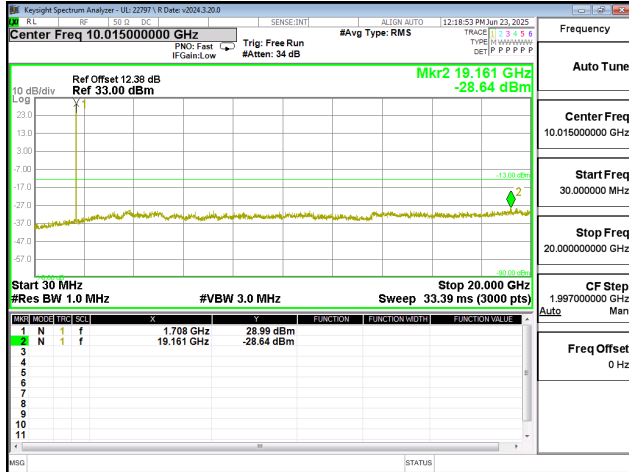




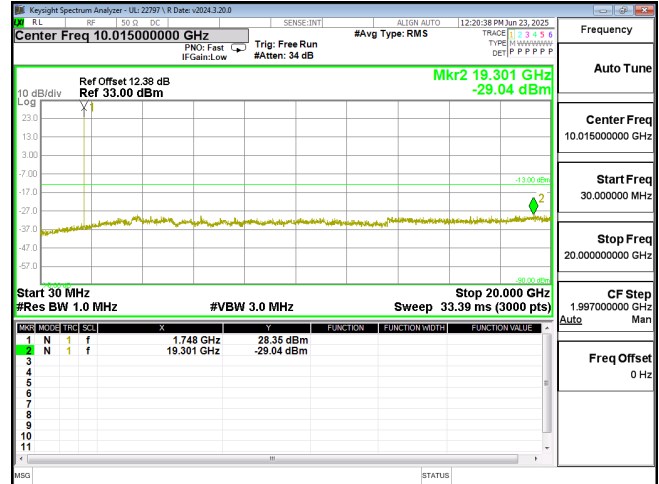
LTE41 20MHz QPSK MID Ch RB1-0

LTE41 20MHz QPSK HIGH Ch RB1-0

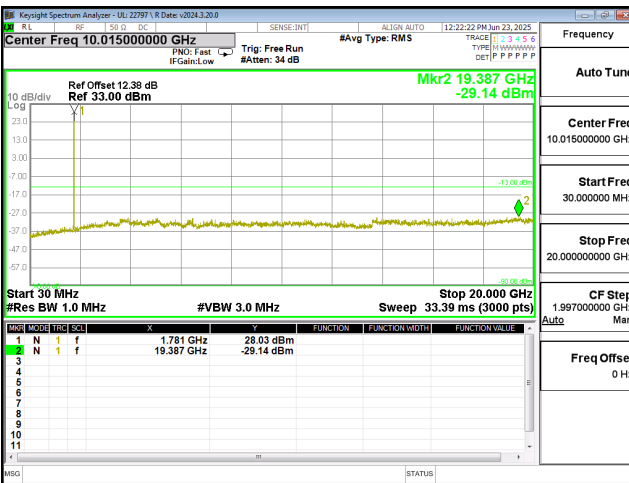
9.2.4. LTE66



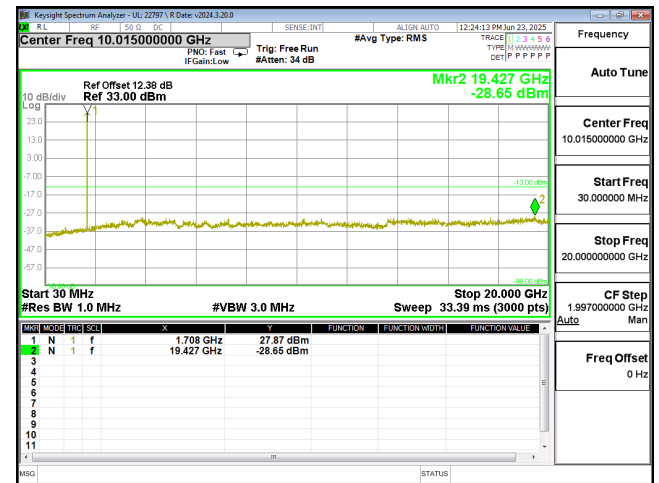
LTE66 1.4MHz QPSK LOW Ch RB1-0



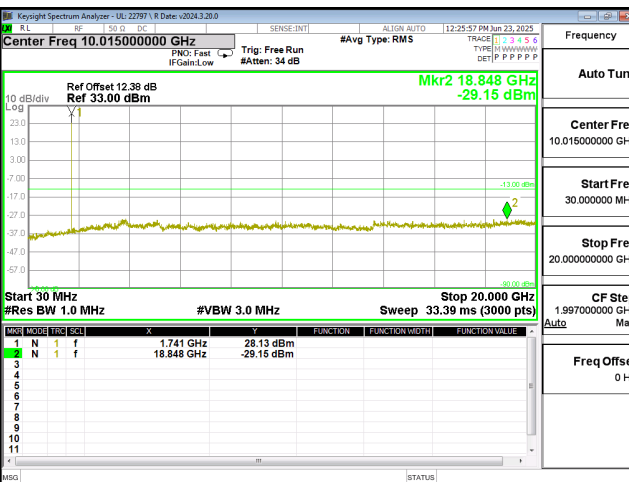
LTE66 1.4MHz QPSK MID Ch RB1-0



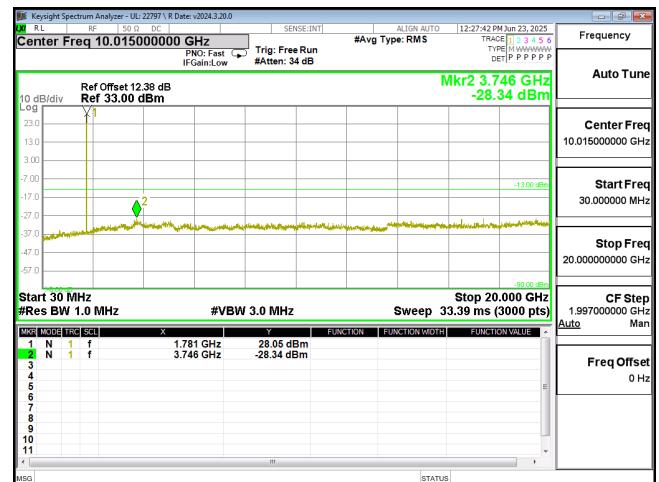
LTE66 1.4MHz QPSK HIGH Ch RB1-0



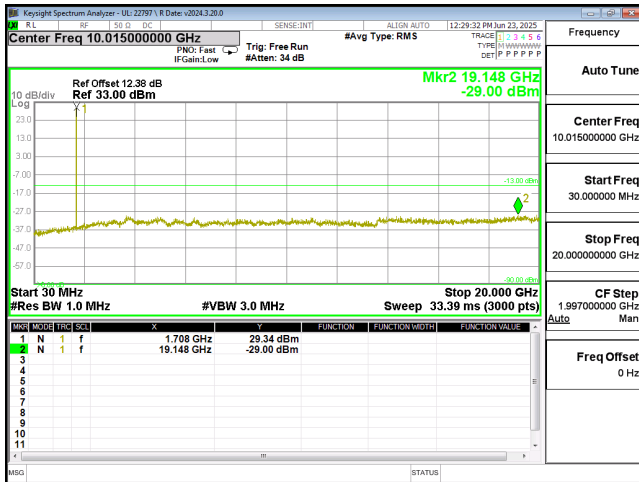
LTE66 3MHz QPSK LOW Ch RB1-0



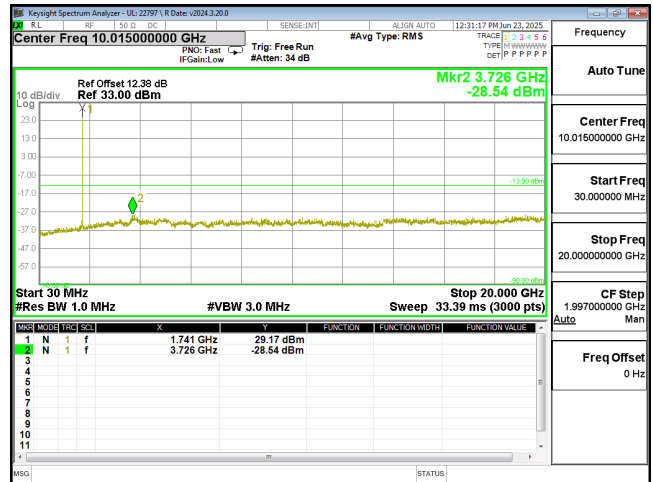
LTE66 3MHz QPSK MID Ch RB1-0



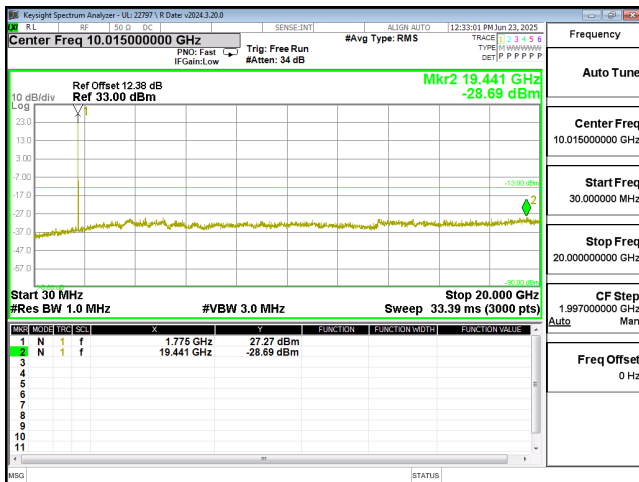
LTE66 3MHz QPSK HIGH Ch RB1-0



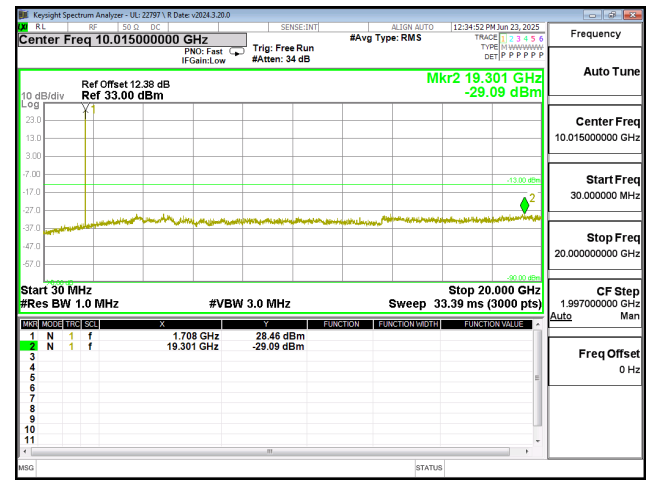
LTE66 5MHz QPSK LOW Ch RB1-0



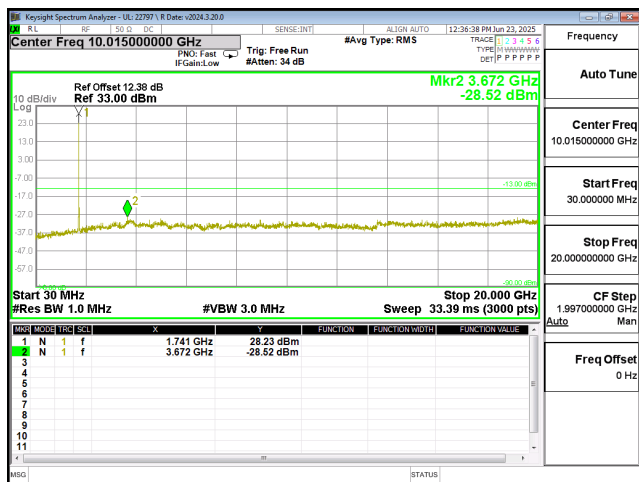
LTE66 5MHz QPSK MID Ch RB1-0



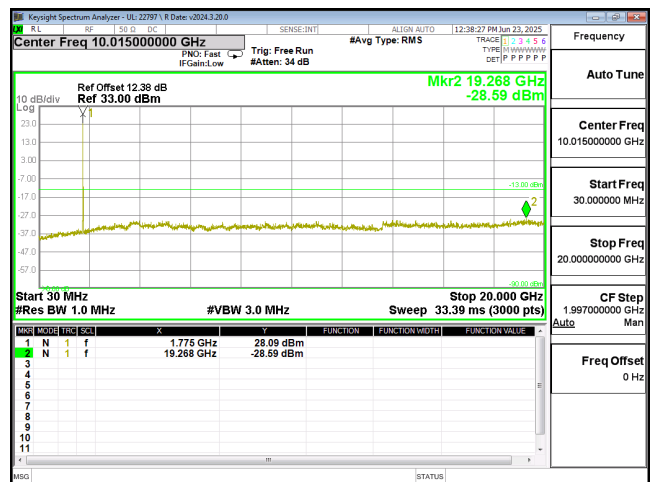
LTE66 5MHz QPSK HIGH Ch RB1-0



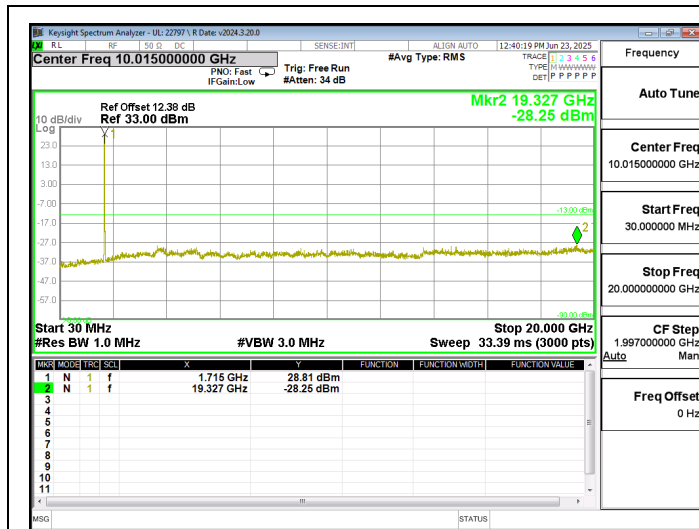
LTE66 10MHz QPSK LOW Ch RB1-0



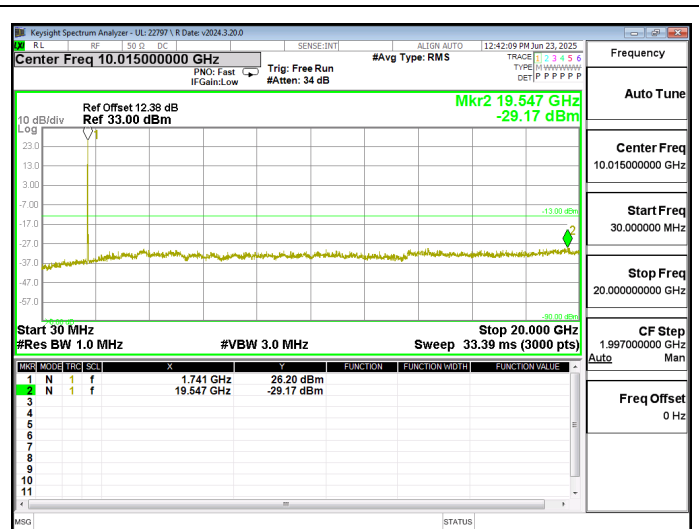
LTE66 10MHz QPSK MID Ch RB1-0



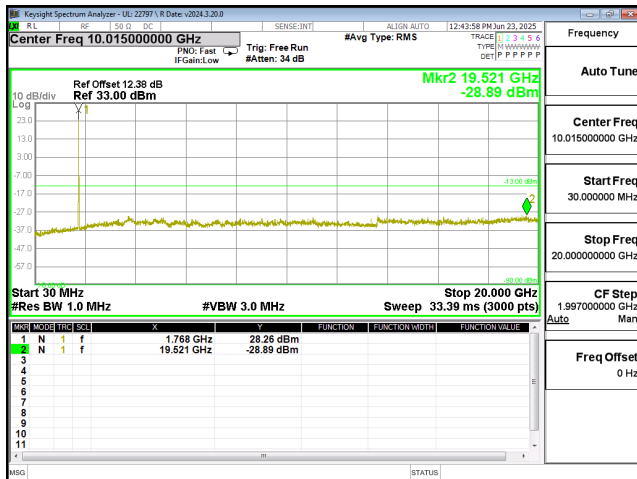
LTE66 10MHz QPSK HIGH Ch RB1-0



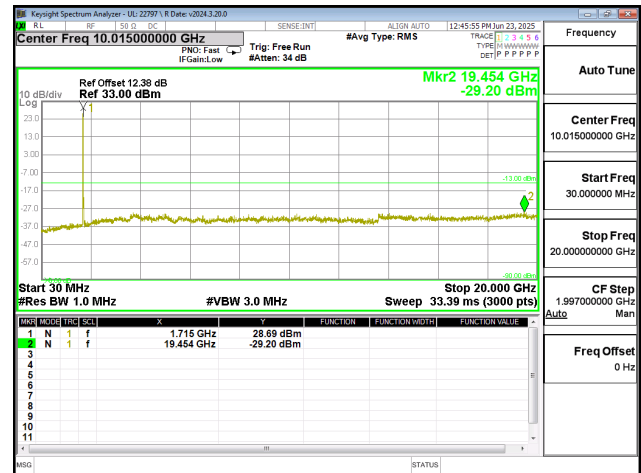
LTE66 15MHz QPSK LOW Ch RB1-0



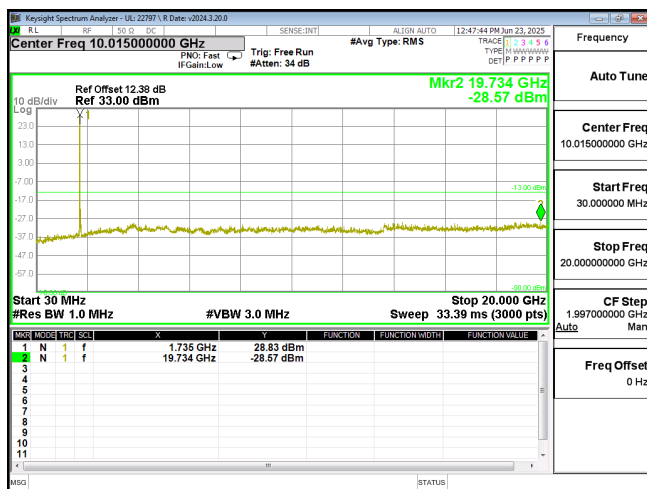
LTE66 15MHz QPSK MID Ch RB1-0



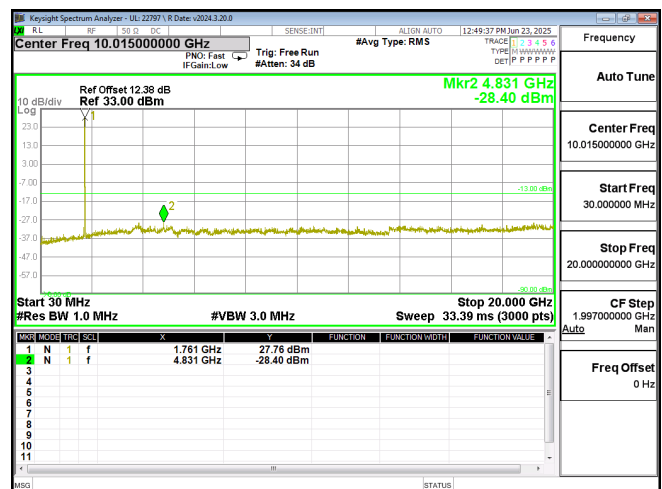
LTE66 15MHz QPSK HIGH Ch RB1-0



LTE66 20MHz QPSK LOW Ch RB1-0



LTE66 20MHz QPSK MID Ch RB1-0



LTE66 20MHz QPSK HIGH Ch RB1-0

9.3. PEAK TO AVERAGE RATIO

LIMIT

In addition, the peak to average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULTS

9.3.1. GSM & WCDMA

Test Engineer ID:	22797	Test Date:	2025-06-23; 2025-07-08
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Band	Bandwidth (MHz)	Frequency (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
				Peak	Average	
2G/3G	GSM850	836.6	GPSR	33.82	32.30	1.52
			EGPRS	29.78	26.10	3.68
	GSM1900	1880.0	GPSR	31.22	29.10	2.12
			EGPRS	28.23	24.80	3.43
	W2	1880.0	Rel/ 99	25.28	23.60	1.68
			HSDPA	24.3	22.7	1.60
	W4	1732.6	Rel/ 99	25.08	23.40	1.68
			HSDPA	24.54	22.50	2.04
	W5	836.6	Rel/ 99	25.83	23.90	1.93
			HSDPA	24.89	23.60	1.29

9.3.2. LTE2

Test Engineer ID:	22797	Test Date:	2025-06-23
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 2	1.4MHz	1880.0	6	0	QPSK	28.42	22.87	5.55
					16QAM	28.76	22.04	6.72
	3MHz		15	0	QPSK	28.39	22.77	5.62
					16QAM	28.79	22.00	6.79
	5MHz		25	0	QPSK	28.73	23.05	5.68
					16QAM	28.84	22.35	6.49
	10MHz		50	0	QPSK	28.49	23.02	5.47
					16QAM	28.81	22.22	6.59
	15MHz		75	0	QPSK	28.52	23.04	5.48
					16QAM	28.89	22.25	6.64
	20MHz		100	0	QPSK	28.54	23.03	5.51
					16QAM	28.89	22.31	6.58

9.3.3. LTE26 (Part 22H)

Test Engineer ID:	22797	Test Date:	2025-06-23; 2025-07-15
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 26	1.4MHz	836.5	6	0	QPSK	30.38	24.68	5.70
					16QAM	30.44	23.87	6.57
	3MHz		15	0	QPSK	30.29	24.6	5.69
					16QAM	30.88	23.81	7.07
	5MHz		25	0	QPSK	30.58	24.9	5.68
					16QAM	30.68	24.26	6.42
	10MHz		50	0	QPSK	30.41	24.89	5.52
					16QAM	30.66	24.09	6.57
	15MHz		75	0	QPSK	30.99	23.4	7.59
					16QAM	30.24	22.4	7.84
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.3.4. LTE66

Test Engineer ID:	22797	Test Date:	2025-06-23
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 66	1.4MHz	1747.5	6	0	QPSK	29.79	24.51	5.28
					16QAM	29.85	23.68	6.17
	3MHz		15	0	QPSK	29.82	24.44	5.38
					16QAM	29.87	23.6	6.27
	5MHz		25	0	QPSK	30.22	24.7	5.52
					16QAM	30.17	23.91	6.26
	10MHz		50	0	QPSK	29.93	24.69	5.24
					16QAM	29.91	23.86	6.05
	15MHz		75	0	QPSK	29.98	24.73	5.25
					16QAM	30.14	23.87	6.27
20MHz	100	0	QPSK	29.90	24.72	5.18		
			16QAM	29.91	23.97	5.94		
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.4. BAND EDGE AND EMISSION MASK

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- (iii) Set the spectrum analyzer span to include the block edge frequency.
- (iv) Set a marker to point the corresponding band edge frequency in each test case.
- (v) Set display line at -13 dBm
- (vi) Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (FCC LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

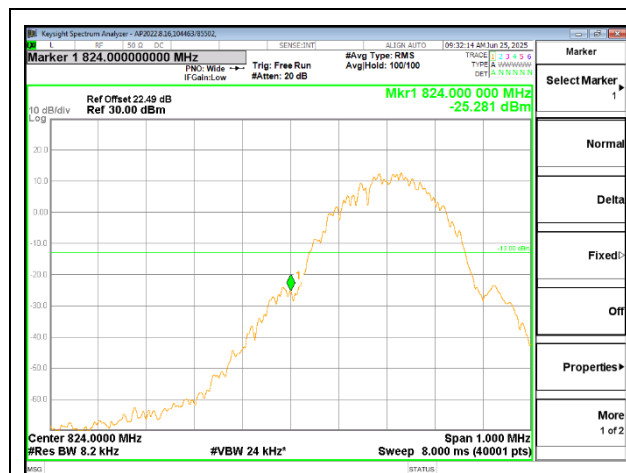
RESULTS

9.4.1. GSM850

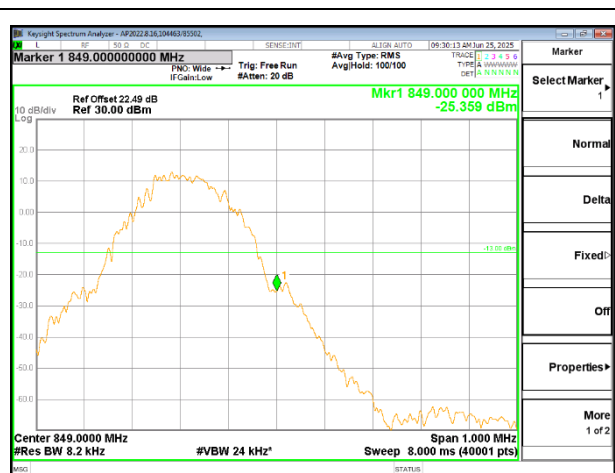
LIMITS

FCC: §22.917 (a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



GSM850 GPRS LOW Channel



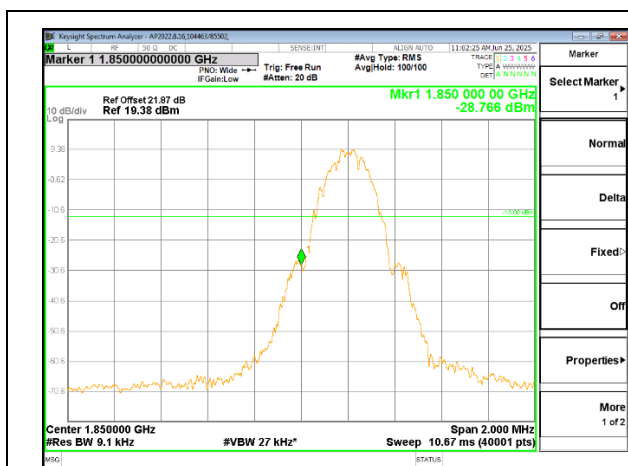
GSM850 GPRS HIGH Channel

9.4.2. GSM1900

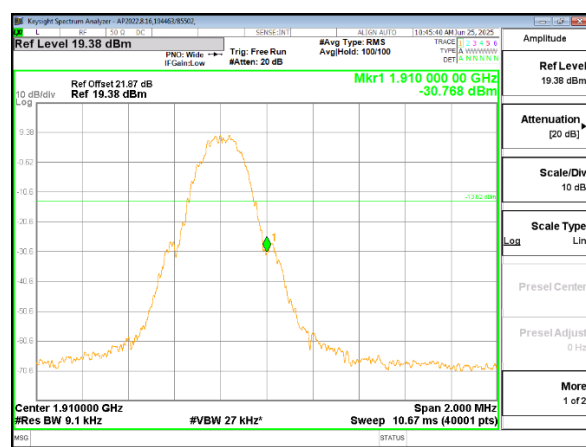
LIMITS

FCC: §24.238 (a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



GSM1900 GPRS LOW Channel



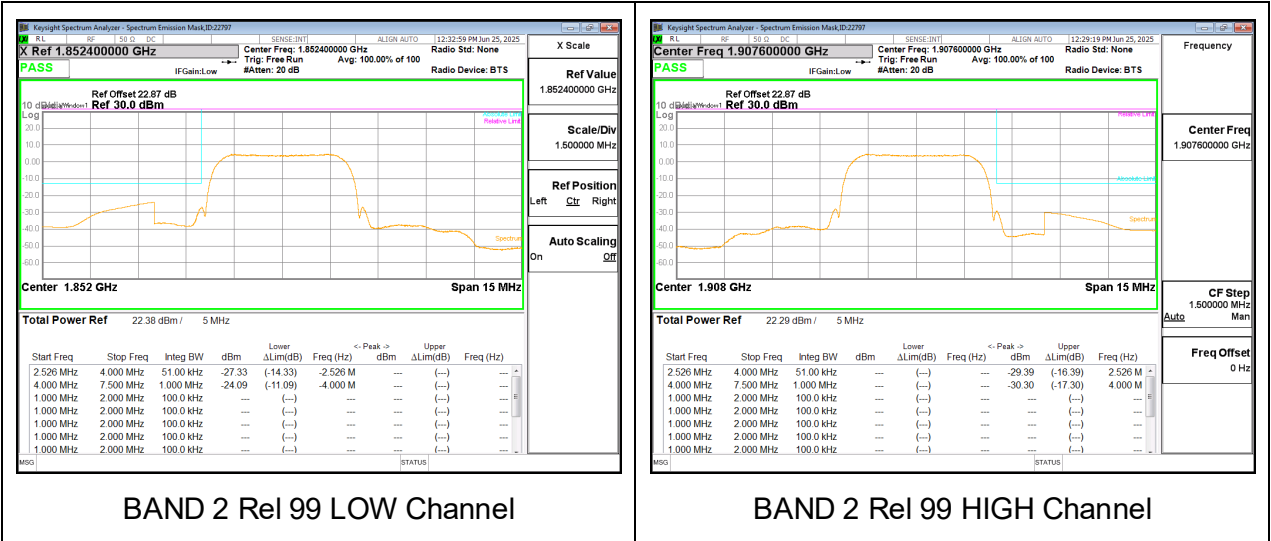
GSM1900 GPRS HIGH Channel

9.4.3. WCDMA BAND 2

LIMITS

FCC: §24.238 (a)
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

Test Engineer ID:	22797	Test Date:	2025-06-25
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9.4.4. WCDMA BAND 4

LIMITS

FCC: §27.53(h)
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

Test Engineer ID:	22797	Test Date:	2025-06-25
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