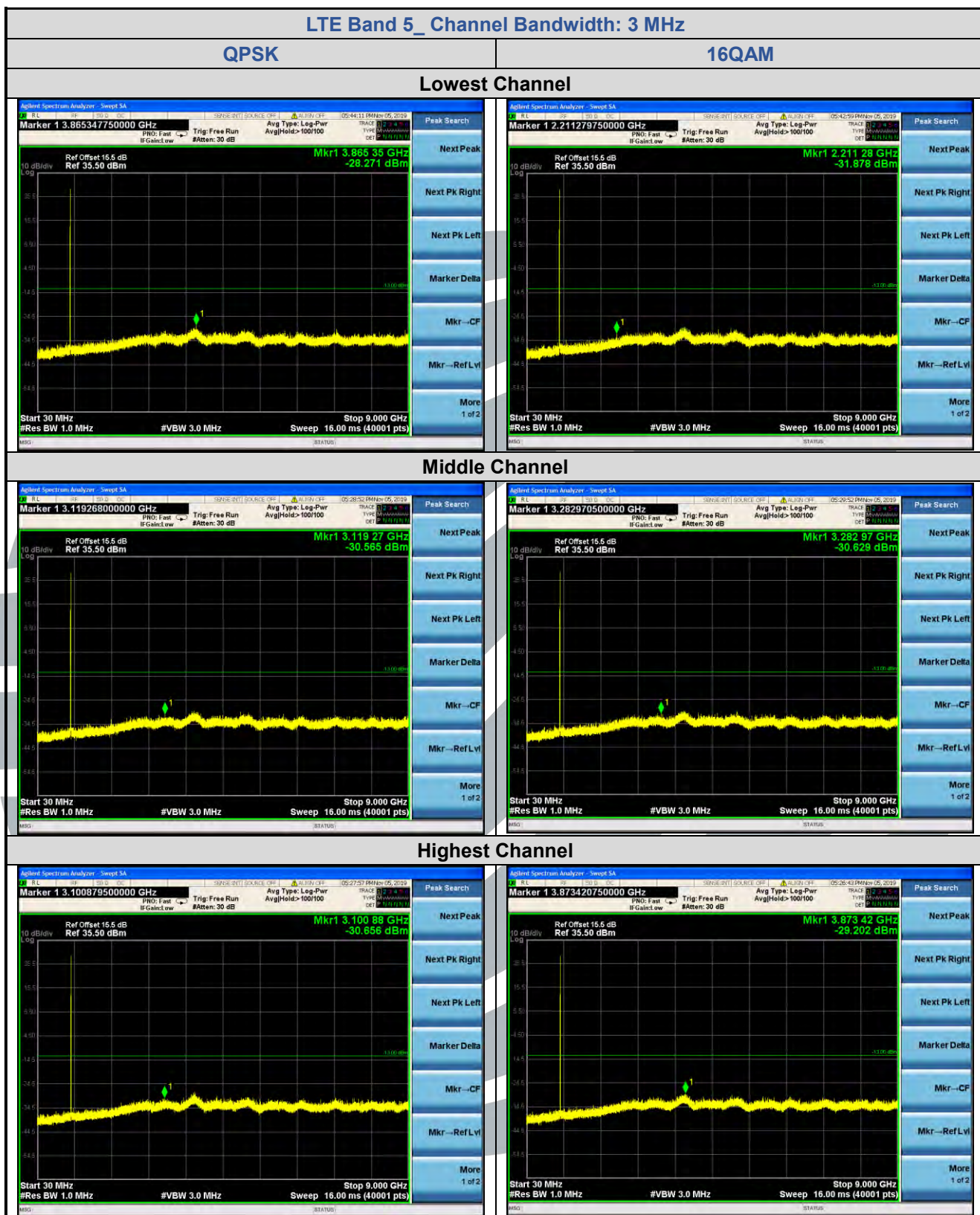
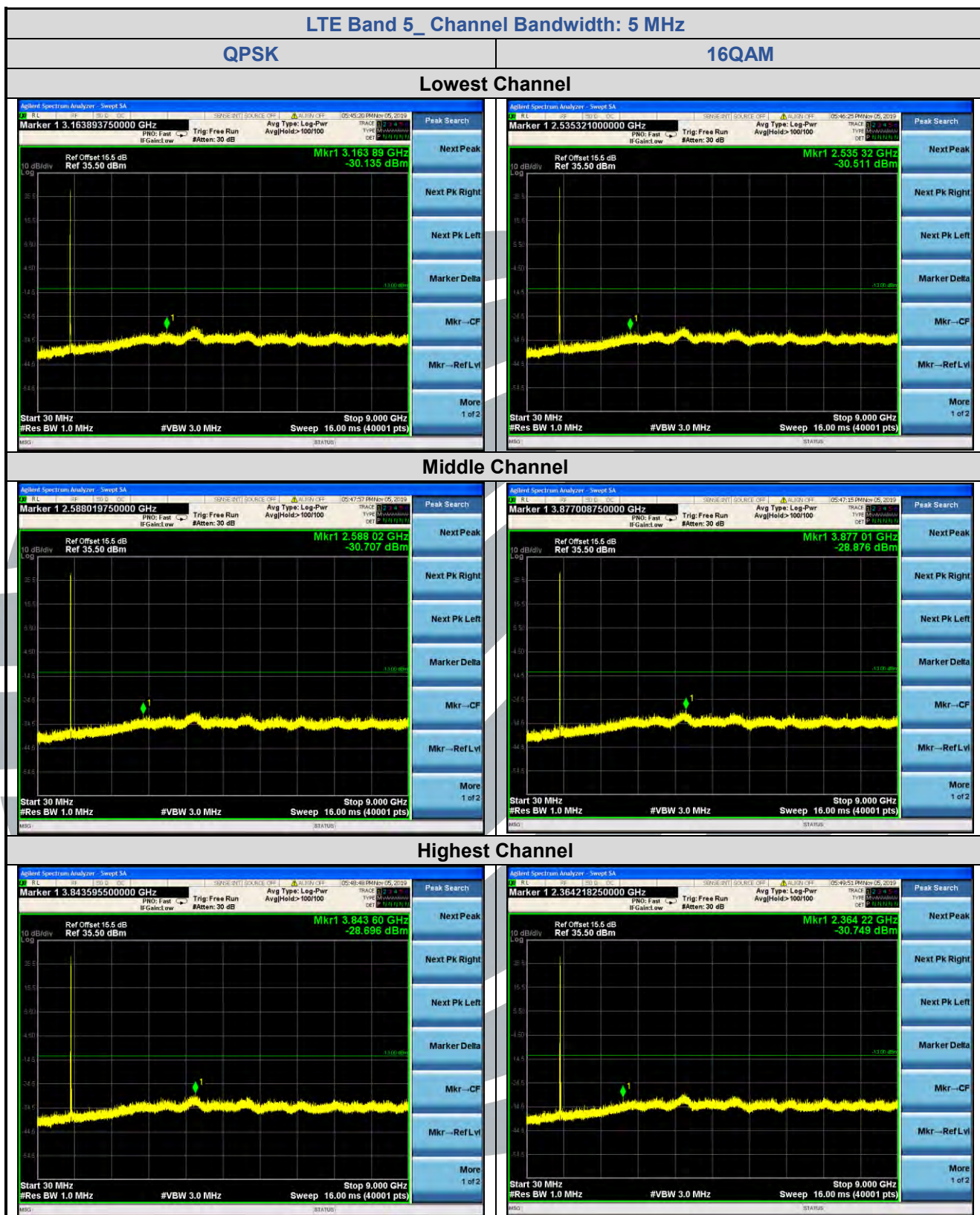
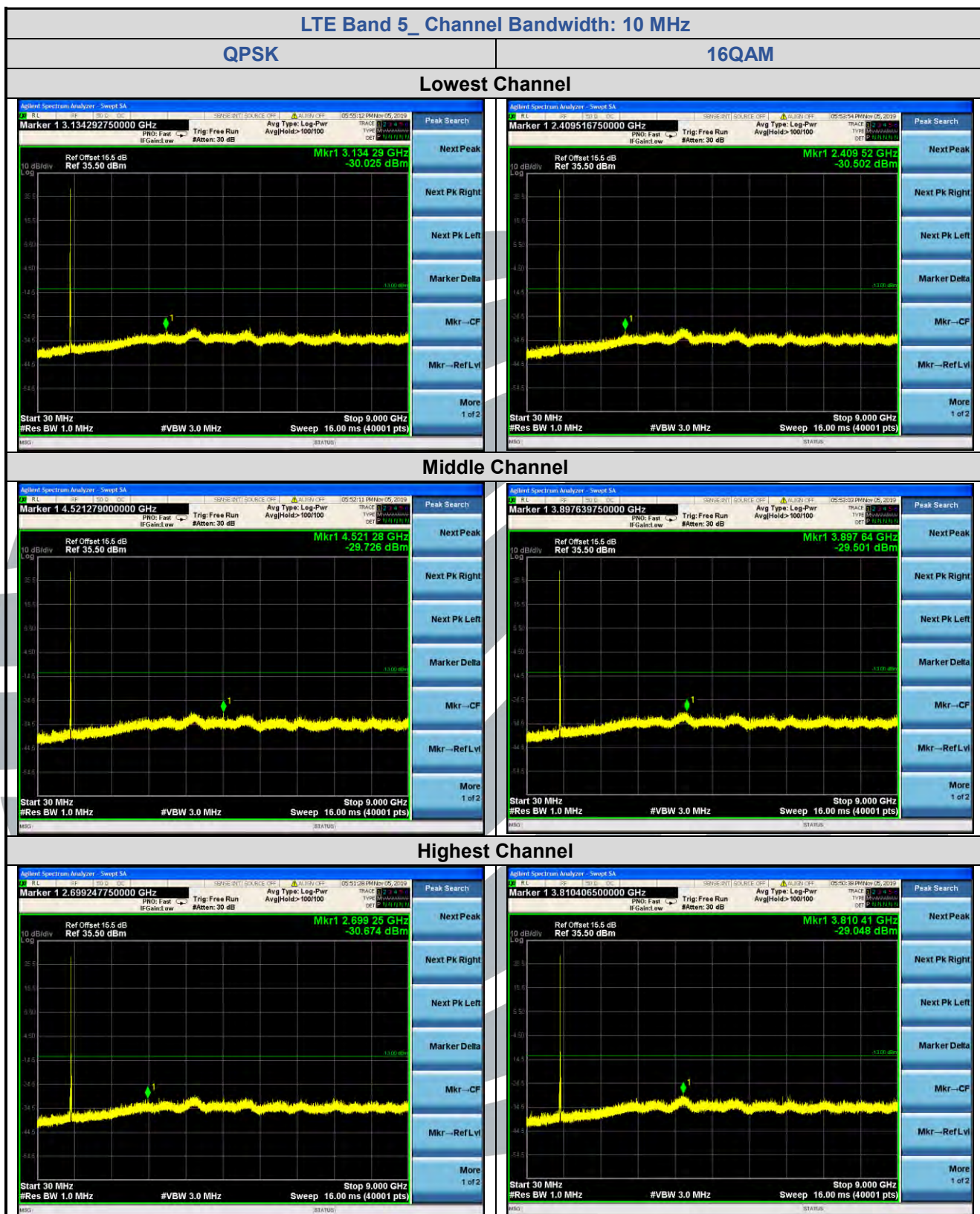
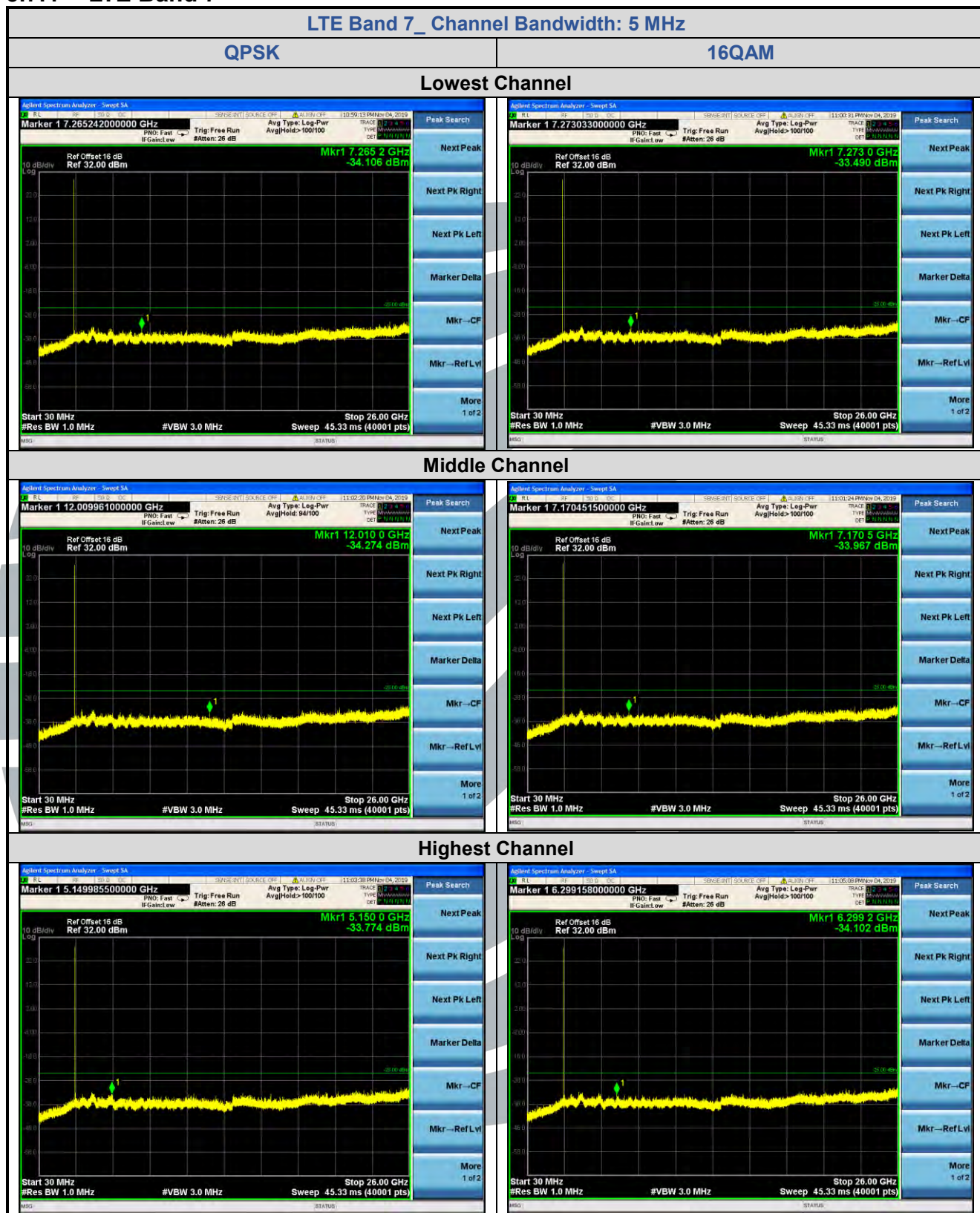


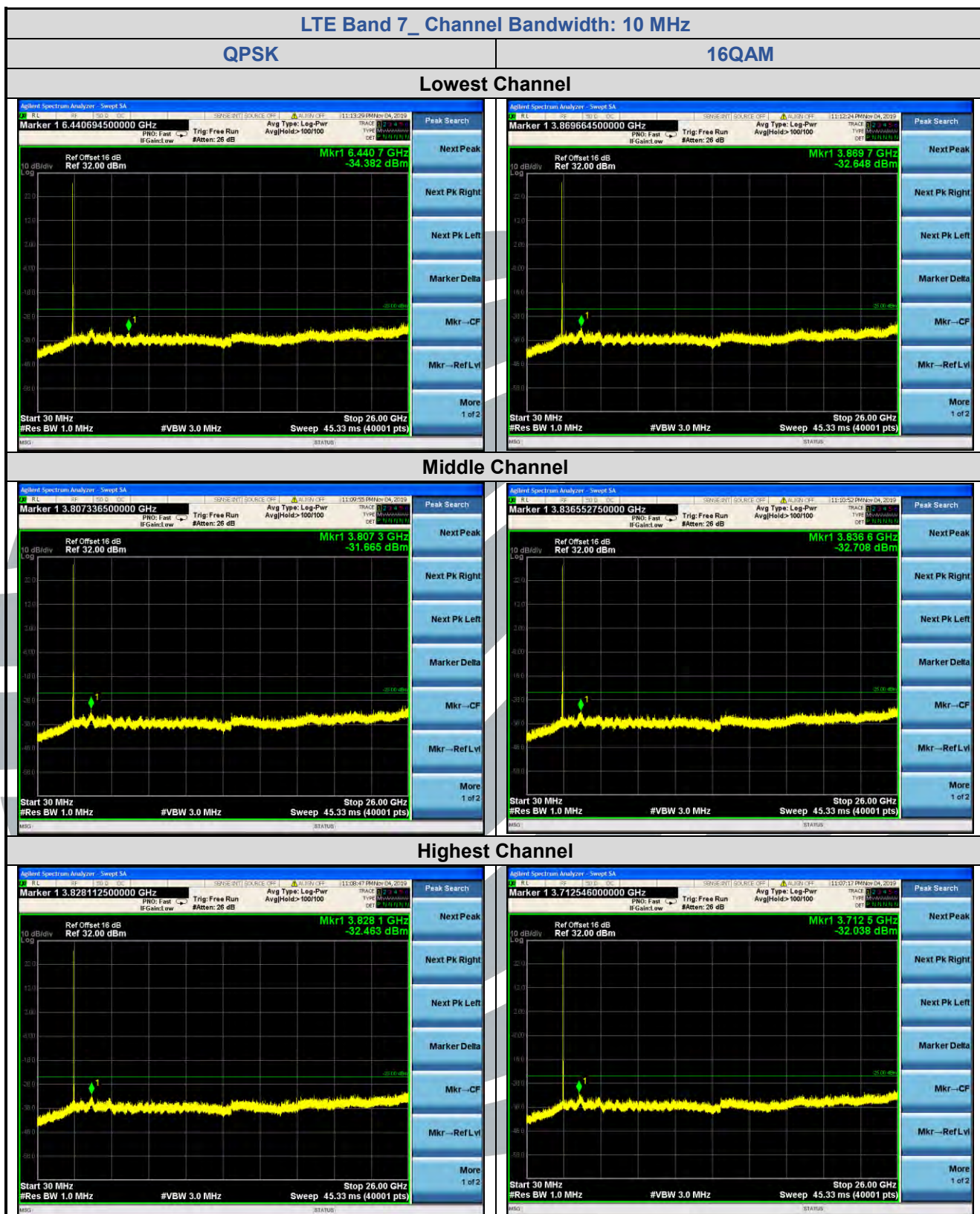


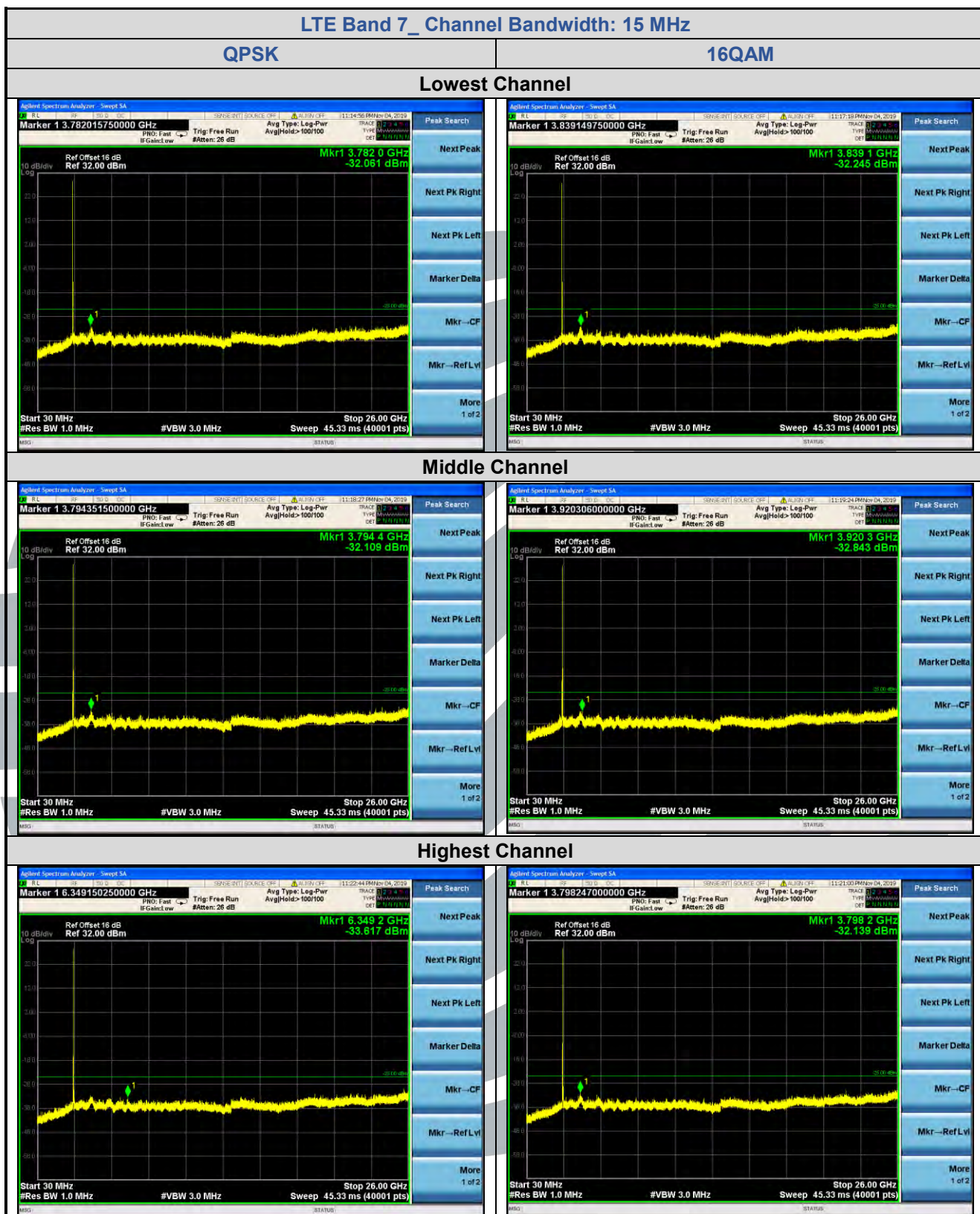


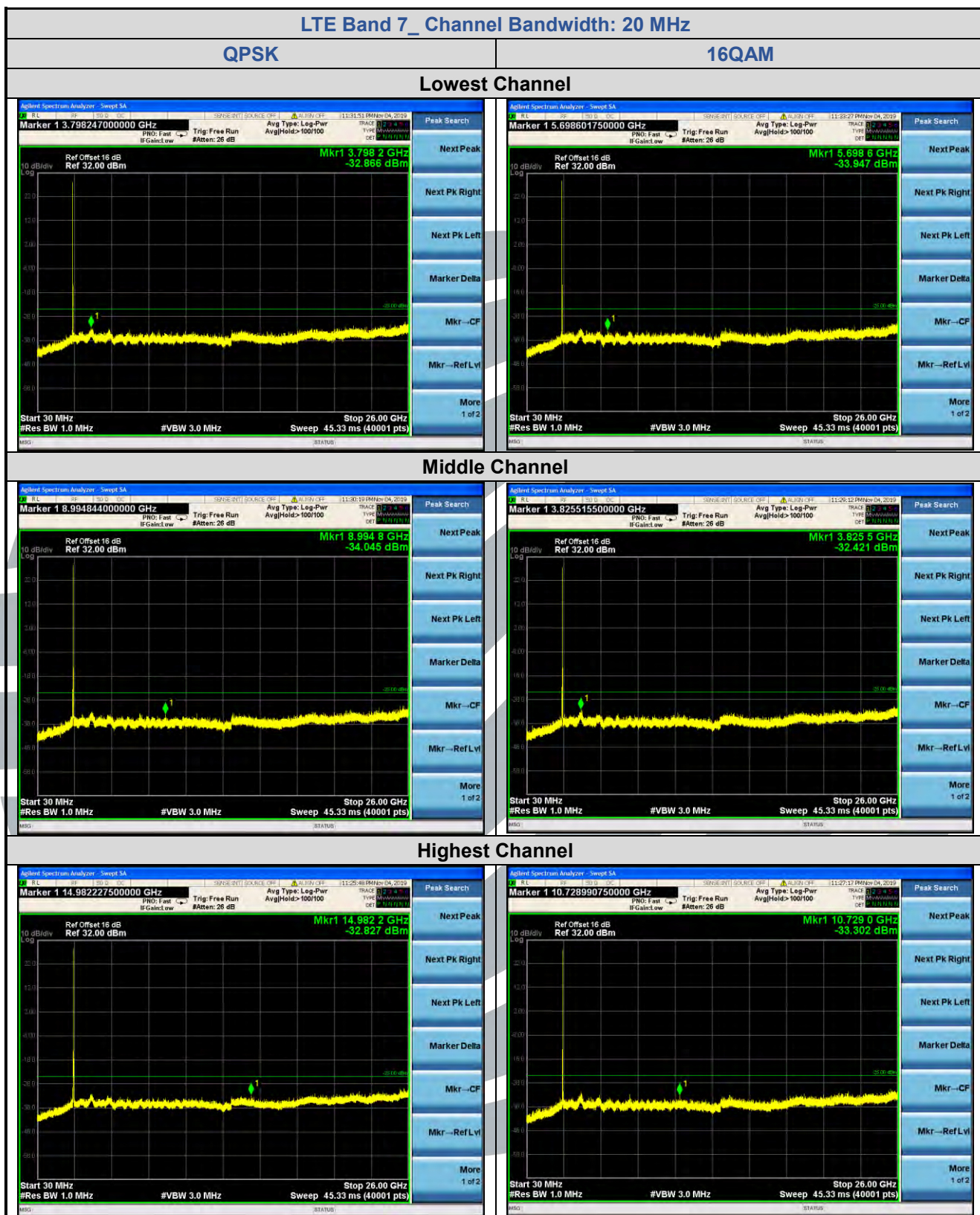


5.7.4 LTE Band 7

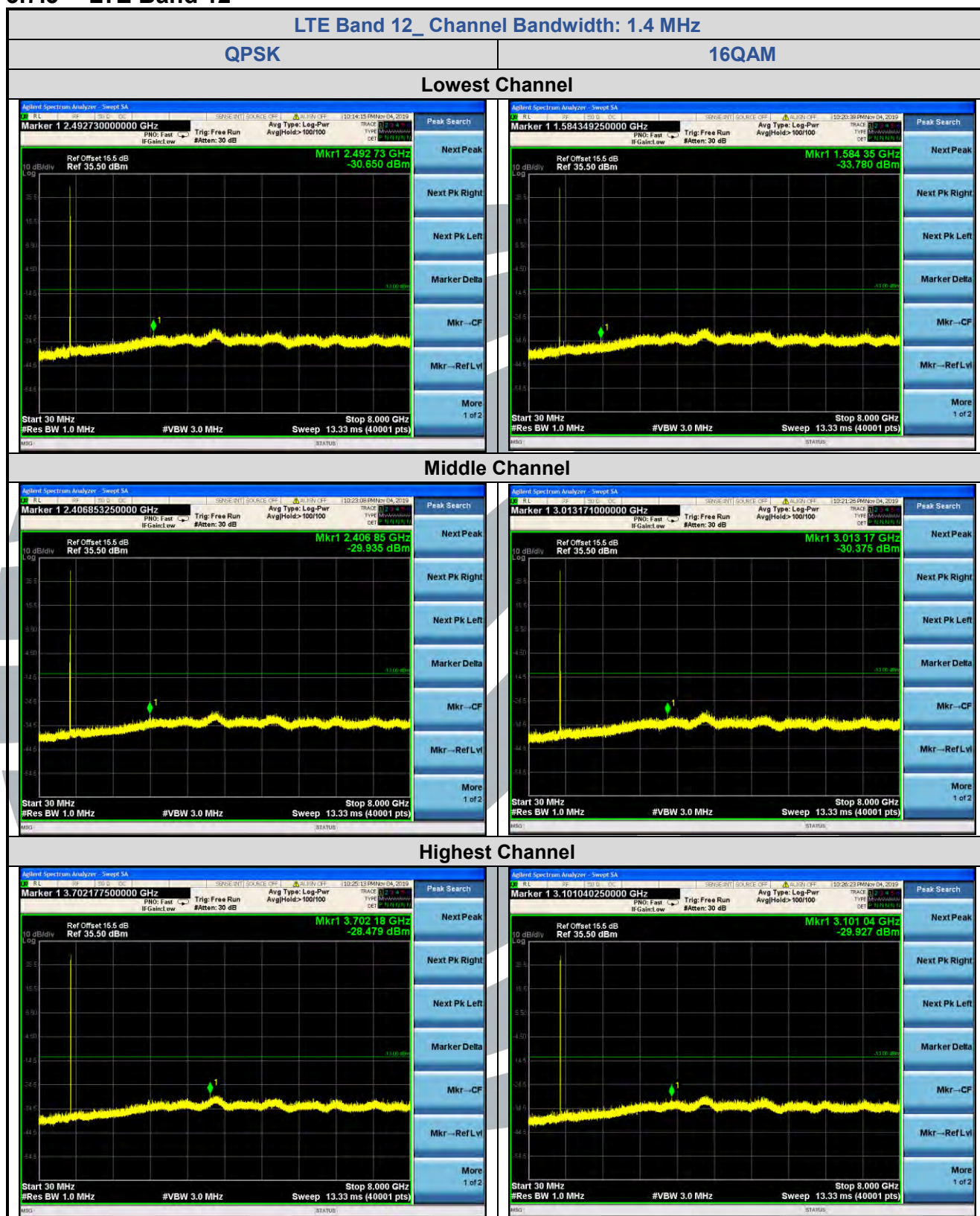


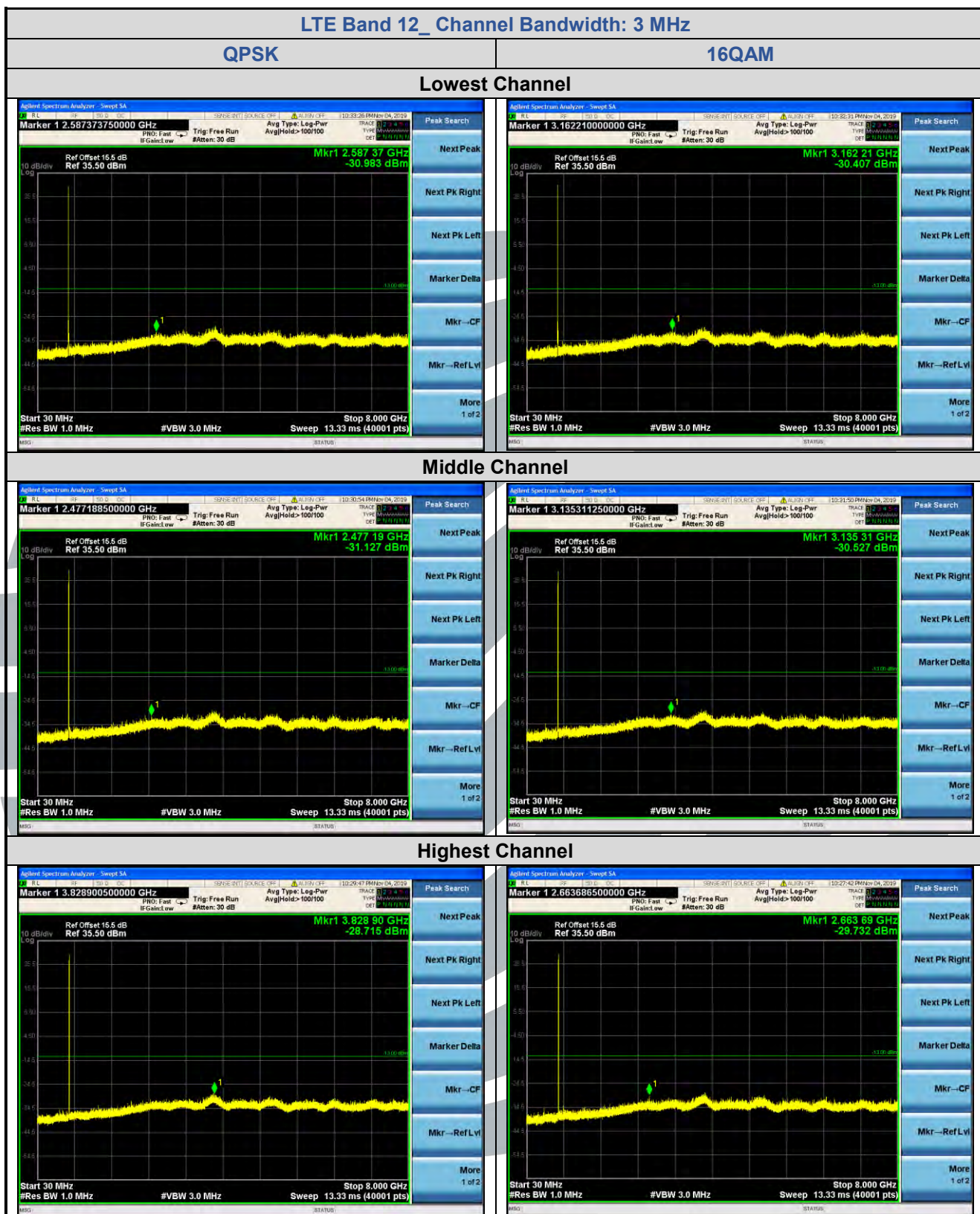


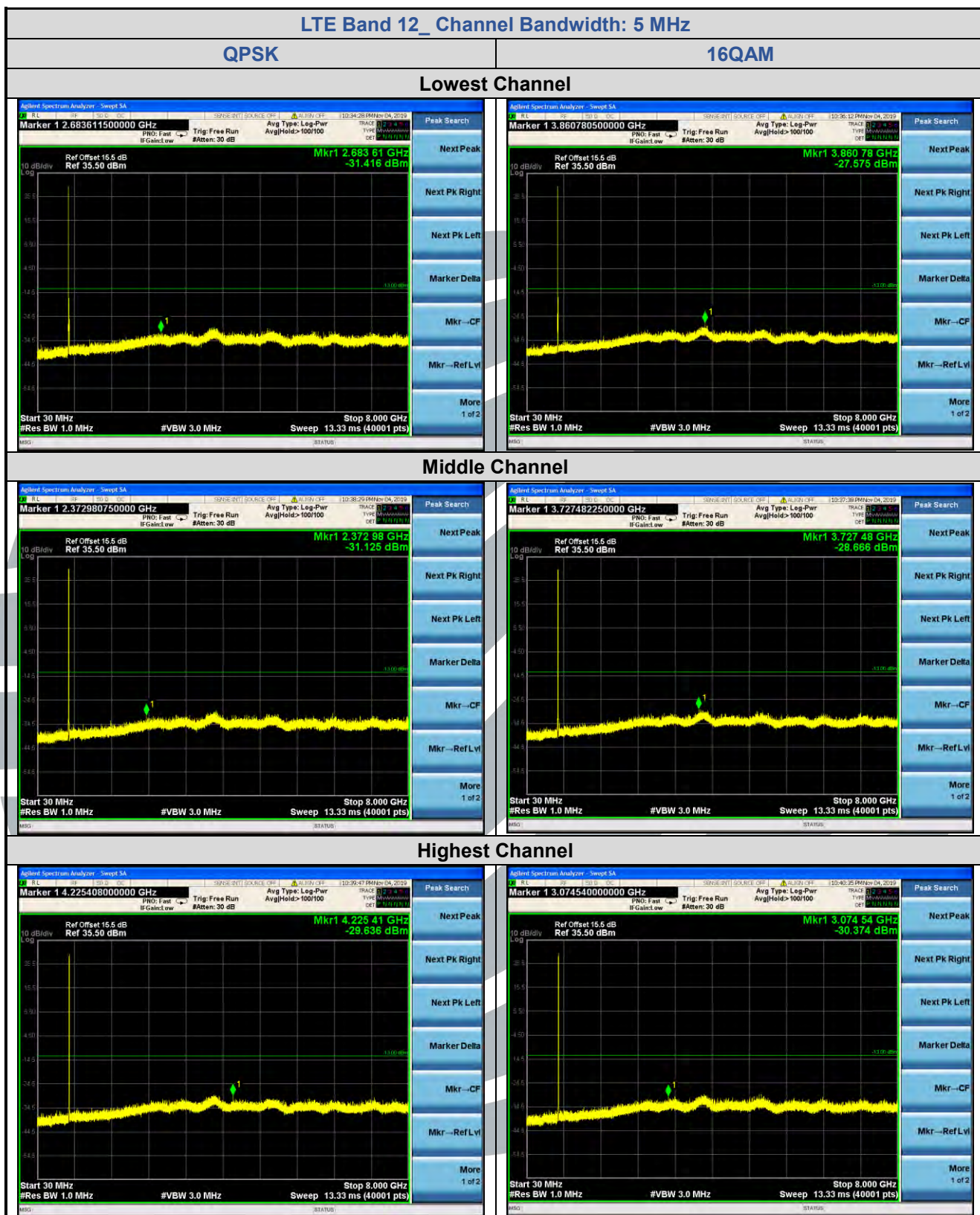


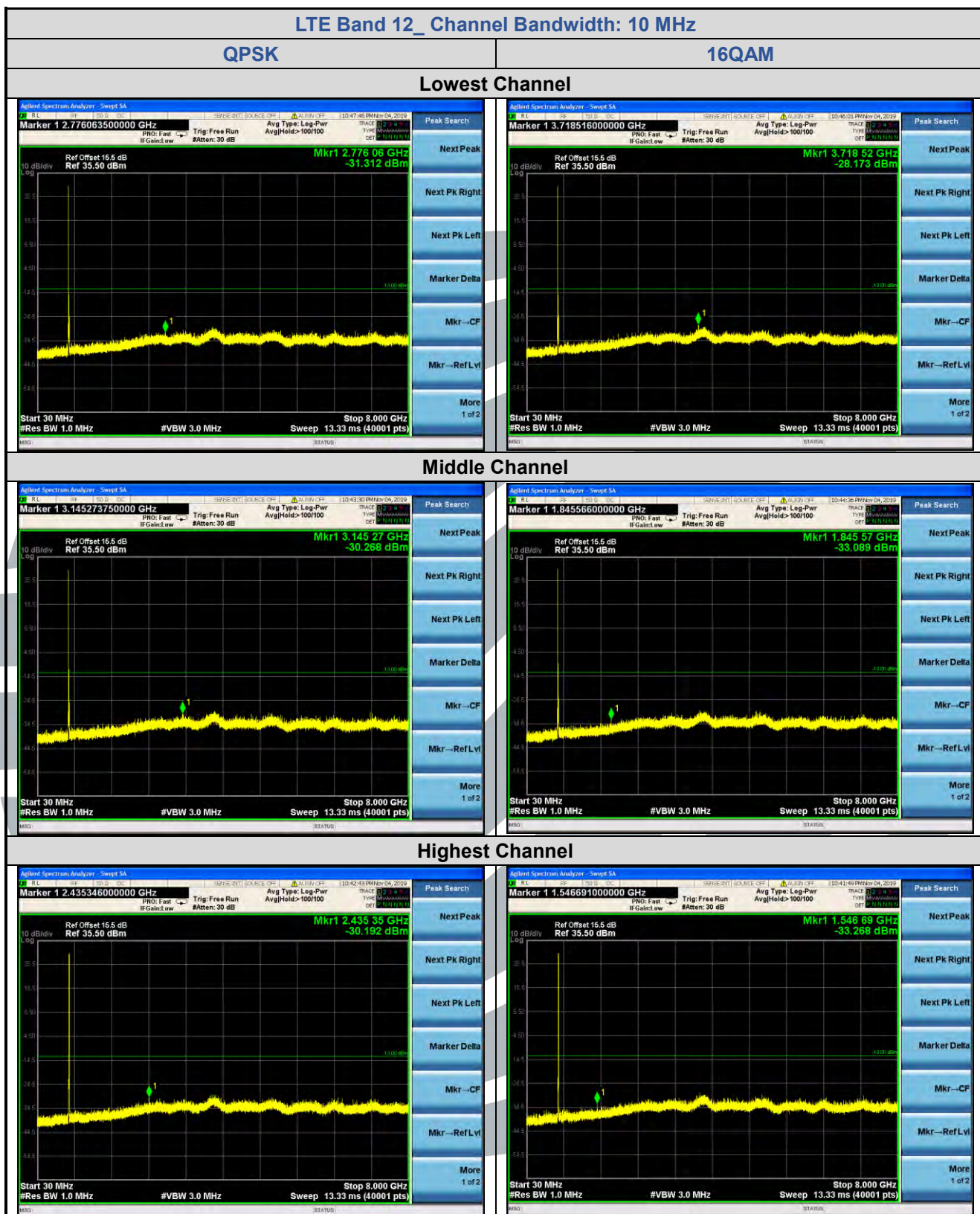


5.7.5 LTE Band 12

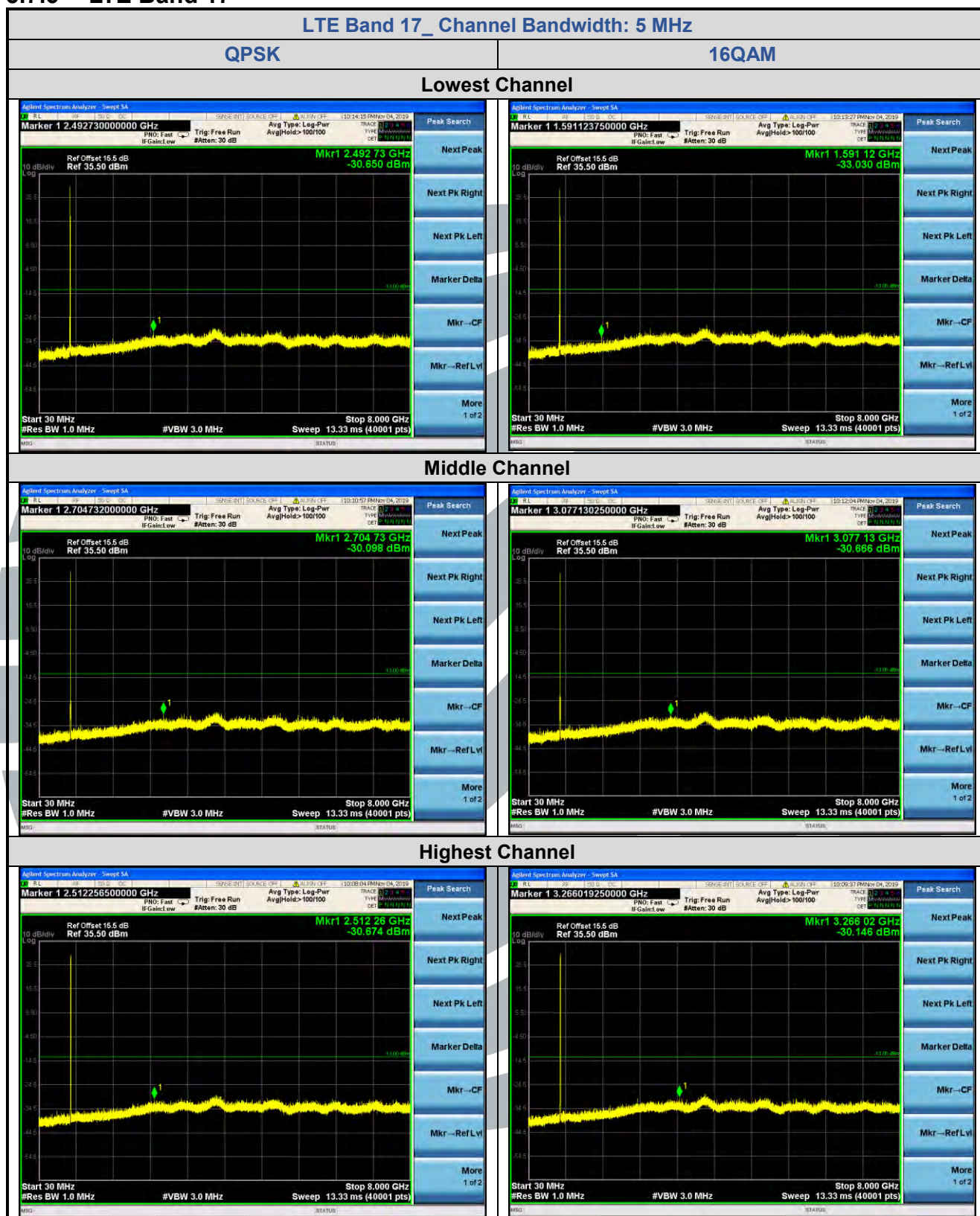


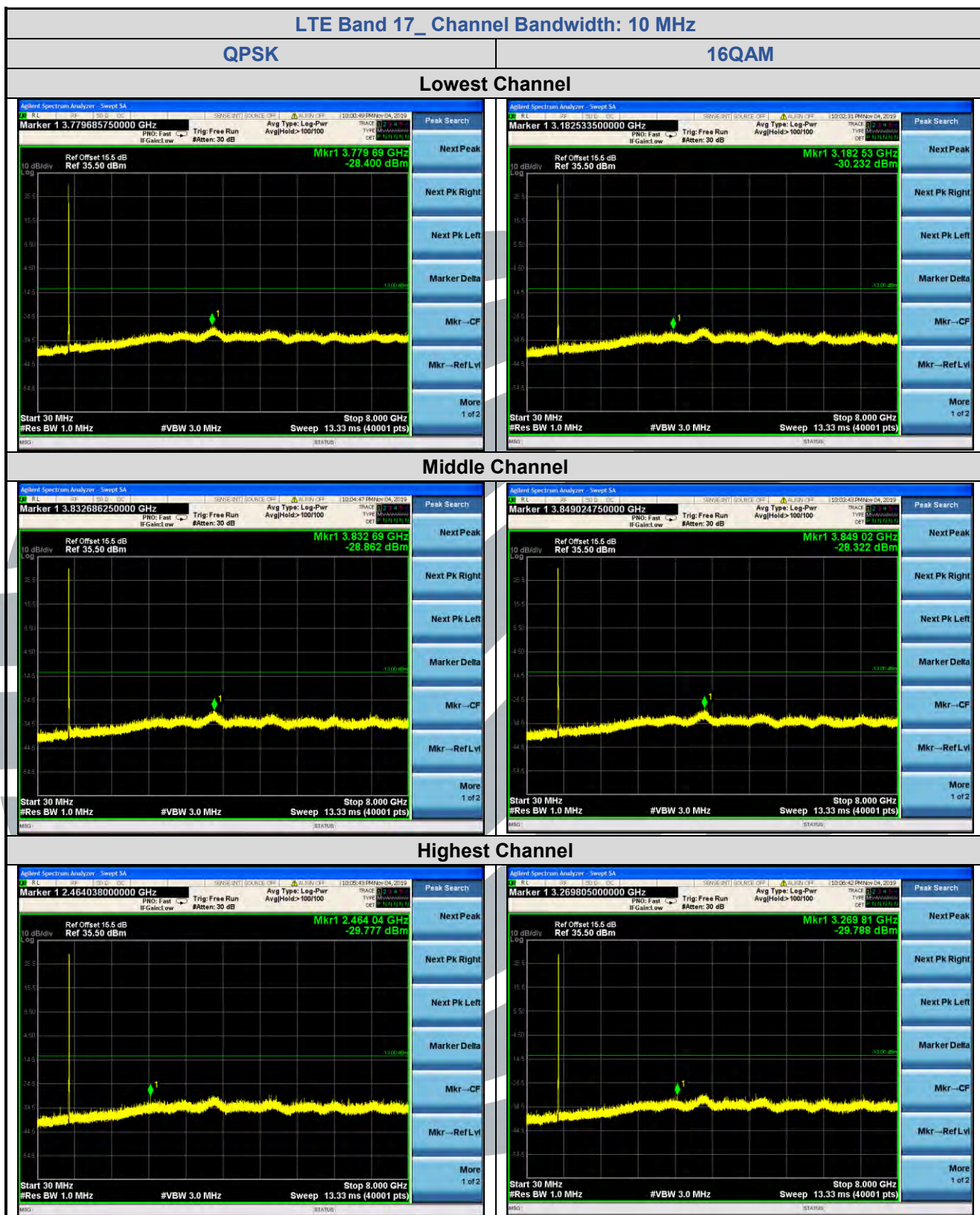






5.7.6 LTE Band 17





5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12: FCC 47 CFR Part 27.53(g)
LTE Band 17: FCC 47 CFR Part 27.53

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

FCC 47 CFR Part 27.53:

(c) 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.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (30 MHz to 1 GHz)

5.8.1 LTE Band 2

LTE Band 2_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	35.762	-71.71	1.33	-70.38	-13.00	-57.38	Horizontal
2	97.002	-69.23	-2.26	-71.49	-13.00	-58.49	Horizontal
3	938.714	-80.93	14.55	-66.38	-13.00	-53.38	Horizontal
4	35.762	-71.33	1.33	-70.00	-13.00	-57.00	Vertical
5	97.002	-69.45	-2.26	-71.71	-13.00	-58.71	Vertical
6	945.334	-81.73	14.62	-67.11	-13.00	-54.11	Vertical
Middle Channel							
1	97.002	-69.82	-2.26	-72.08	-13.00	-59.08	Horizontal
2	106.281	-69.60	-2.33	-71.93	-13.00	-58.93	Horizontal
3	992.997	-83.16	16.77	-66.39	-13.00	-53.39	Horizontal
4	97.002	-69.56	-2.26	-71.82	-13.00	-58.82	Vertical
5	106.281	-71.22	-2.33	-73.55	-13.00	-60.55	Vertical
6	992.997	-82.36	16.77	-65.59	-13.00	-52.59	Vertical
Highest Channel							
1	97.002	-70.13	-2.26	-72.39	-13.00	-59.39	Horizontal
2	106.281	-69.82	-2.33	-72.15	-13.00	-59.15	Horizontal
3	919.132	-82.12	13.88	-68.24	-13.00	-55.24	Horizontal
4	35.762	-73.40	1.33	-72.07	-13.00	-59.07	Vertical
5	97.002	-69.87	-2.26	-72.13	-13.00	-59.13	Vertical
6	760.287	-80.16	10.76	-69.40	-13.00	-56.40	Vertical

5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	53.379	-71.59	-4.04	-75.63	-13.00	-62.63	Horizontal
2	637.795	-80.77	8.75	-72.02	-13.00	-59.02	Horizontal
3	992.997	-82.95	16.77	-66.18	-13.00	-53.18	Horizontal
4	47.703	-75.63	-3.49	-79.12	-13.00	-66.12	Vertical
5	97.002	-77.23	-2.26	-79.49	-13.00	-66.49	Vertical
6	392.738	-80.12	4.24	-75.88	-13.00	-62.88	Vertical
Middle Channel							
1	54.135	-72.01	-4.21	-76.22	-13.00	-63.22	Horizontal
2	468.165	-79.72	5.41	-74.31	-13.00	-61.31	Horizontal
3	986.044	-82.94	16.43	-66.51	-13.00	-53.51	Horizontal
4	31.513	-81.10	4.56	-76.54	-13.00	-63.54	Vertical
5	744.427	-80.67	10.17	-70.50	-13.00	-57.50	Vertical
6	992.997	-82.10	16.77	-65.33	-13.00	-52.33	Vertical
Highest Channel							
1	54.135	-70.55	-4.21	-74.76	-13.00	-61.76	Horizontal
2	101.893	-75.75	-2.18	-77.93	-13.00	-64.93	Horizontal
3	938.714	-81.60	14.55	-67.05	-13.00	-54.05	Horizontal
4	30.855	-80.61	5.01	-75.60	-13.00	-62.60	Vertical
5	47.703	-75.46	-3.49	-78.95	-13.00	-65.95	Vertical
6	986.044	-82.53	16.43	-66.10	-13.00	-53.10	Vertical

5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	170.189	-88.19	27.49	-60.70	-13.00	-47.70	Horizontal
2	353.447	-89.26	32.12	-57.14	-13.00	-44.14	Horizontal
3	620.117	-89.10	37.94	-51.16	-13.00	-38.16	Horizontal
4	334.126	-88.94	31.38	-57.56	-13.00	-44.56	Vertical
5	542.610	-87.81	35.99	-51.82	-13.00	-38.82	Vertical
6	698.804	-88.61	39.09	-49.52	-13.00	-36.52	Vertical
Middle Channel							
1	322.590	-88.60	30.83	-57.77	-13.00	-44.77	Horizontal
2	523.876	-87.46	35.71	-51.75	-13.00	-38.75	Horizontal
3	760.287	-88.46	39.97	-48.49	-13.00	-35.49	Horizontal
4	278.331	-89.09	30.24	-58.85	-13.00	-45.85	Vertical
5	468.165	-87.77	34.50	-53.27	-13.00	-40.27	Vertical
6	665.261	-87.05	38.40	-48.65	-13.00	-35.65	Vertical
Highest Channel							
1	439.473	-87.98	34.12	-53.86	-13.00	-40.86	Horizontal
2	703.731	-87.78	39.07	-48.71	-13.00	-35.71	Horizontal
3	821.387	-87.23	40.25	-46.98	-13.00	-33.98	Horizontal
4	474.791	-87.97	34.64	-53.33	-13.00	-40.33	Vertical
5	651.383	-88.10	38.06	-50.04	-13.00	-37.04	Vertical
6	771.047	-87.32	39.98	-47.34	-13.00	-34.34	Vertical

5.8.4 LTE Band 7

LTE Band 7_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	106.281	-78.37	-2.33	-80.70	-25.00	-55.70	Horizontal
2	436.396	-80.13	5.19	-74.94	-25.00	-49.94	Horizontal
3	992.997	-82.77	16.77	-66.00	-25.00	-41.00	Horizontal
4	97.002	-77.60	-2.26	-79.86	-25.00	-54.86	Vertical
5	346.074	-79.92	3.71	-76.21	-25.00	-51.21	Vertical
6	912.695	-81.34	13.47	-67.87	-25.00	-42.87	Vertical
Middle Channel							
1	97.002	-78.09	-2.26	-80.35	-25.00	-55.35	Horizontal
2	760.287	-80.86	10.76	-70.10	-25.00	-45.10	Horizontal
3	938.714	-81.29	14.55	-66.74	-25.00	-41.74	Horizontal
4	31.735	-78.88	4.41	-74.47	-25.00	-49.47	Vertical
5	97.002	-76.78	-2.26	-79.04	-25.00	-54.04	Vertical
6	938.714	-81.03	14.55	-66.48	-25.00	-41.48	Vertical
Highest Channel							
1	30.639	-80.08	5.16	-74.92	-25.00	-49.92	Horizontal
2	97.002	-78.98	-2.26	-81.24	-25.00	-56.24	Horizontal
3	945.334	-81.69	14.62	-67.07	-25.00	-42.07	Horizontal
4	95.649	-74.88	-2.37	-77.25	-25.00	-52.25	Vertical
5	844.803	-80.48	11.55	-68.93	-25.00	-43.93	Vertical
6	979.139	-82.01	16.01	-66.00	-25.00	-41.00	Vertical

5.8.5 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	264.971	-89.16	29.91	-59.25	-13.00	-46.25	Horizontal
2	368.668	-88.28	32.10	-56.18	-13.00	-43.18	Horizontal
3	684.226	-87.62	38.80	-48.82	-13.00	-35.82	Horizontal
4	106.281	-89.15	26.35	-62.80	-13.00	-49.80	Vertical
5	495.238	-89.48	35.21	-54.27	-13.00	-41.27	Vertical
6	679.435	-87.84	38.76	-49.08	-13.00	-36.08	Vertical
Middle Channel							
1	243.543	-89.88	29.27	-60.61	-13.00	-47.61	Horizontal
2	430.305	-88.48	34.00	-54.48	-13.00	-41.48	Horizontal
3	660.602	-88.20	38.35	-49.85	-13.00	-36.85	Horizontal
4	254.031	-87.93	29.35	-58.58	-13.00	-45.58	Vertical
5	421.329	-88.79	33.62	-55.17	-13.00	-42.17	Vertical
6	684.226	-88.89	38.80	-50.09	-13.00	-37.09	Vertical
Highest Channel							
1	363.523	-88.80	32.08	-56.72	-13.00	-43.72	Horizontal
2	538.811	-87.12	35.99	-51.13	-13.00	-38.13	Horizontal
3	674.677	-87.39	38.61	-48.78	-13.00	-35.78	Horizontal
4	142.769	-87.37	27.06	-60.31	-13.00	-47.31	Vertical
5	360.977	-88.39	32.08	-56.31	-13.00	-43.31	Vertical
6	611.462	-87.93	37.83	-50.10	-13.00	-37.10	Vertical

5.8.6 LTE Band 17

LTE Band 17_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Middle Channel							
1	240.144	-88.61	29.27	-59.34	-13.00	-46.34	Horizontal
2	424.300	-88.95	33.75	-55.20	-13.00	-42.20	Horizontal
3	660.602	-88.50	38.35	-50.15	-13.00	-37.15	Horizontal
4	415.449	-88.99	33.46	-55.53	-13.00	-42.53	Vertical
5	498.730	-88.35	35.36	-52.99	-13.00	-39.99	Vertical
6	674.677	-87.47	38.61	-48.86	-13.00	-35.86	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

Radiated Emission Test Data (Above 1 GHz)

5.8.7 LTE Band 2

LTE Band 2_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	3720.000	-60.61	13.80	-46.81	-13.00	-33.81	Horizontal
2	7440.000	-66.93	18.97	-47.96	-13.00	-34.96	Horizontal
3	5580.000	-57.68	16.87	-40.81	-13.00	-27.81	Vertical
4	7440.000	-57.85	18.41	-39.44	-13.00	-26.44	Vertical
Middle Channel							
1	3760.000	-59.36	13.87	-45.49	-13.00	-32.49	Horizontal
2	5640.000	-67.93	16.10	-51.83	-13.00	-38.83	Horizontal
3	5640.000	-60.93	16.97	-43.96	-13.00	-30.96	Vertical
4	7520.000	-59.84	18.48	-41.36	-13.00	-28.36	Vertical
Highest Channel							
1	3800.000	-63.93	13.95	-49.98	-13.00	-36.98	Horizontal
2	5700.000	-67.34	16.28	-51.06	-13.00	-38.06	Horizontal
3	3800.000	-65.67	15.39	-50.28	-13.00	-37.28	Vertical
4	5700.000	-59.96	17.14	-42.82	-13.00	-29.82	Vertical

5.8.8 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	5160.000	-60.98	16.14	-44.84	-13.00	-31.84	Horizontal
2	6880.000	-60.39	18.43	-41.96	-13.00	-28.96	Horizontal
3	5160.000	-56.50	17.11	-39.39	-13.00	-26.39	Vertical
4	6880.000	-54.10	18.25	-35.85	-13.00	-22.85	Vertical
Middle Channel							
1	5197.500	-62.73	16.21	-46.52	-13.00	-33.52	Horizontal
2	6930.000	-58.72	18.33	-40.39	-13.00	-27.39	Horizontal
3	5197.500	-55.86	17.17	-38.69	-13.00	-25.69	Vertical
4	6930.000	-54.35	18.10	-36.25	-13.00	-23.25	Vertical
Highest Channel							
1	5235.000	-68.76	16.20	-52.56	-13.00	-39.56	Horizontal
2	6980.000	-63.09	18.22	-44.87	-13.00	-31.87	Horizontal
3	5235.000	-62.57	17.16	-45.41	-13.00	-32.41	Vertical
4	6980.000	-58.12	17.94	-40.18	-13.00	-27.18	Vertical

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5.8.9 LTE Band 5

LTE Band 5_10 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	1658.000	-70.18	2.47	-67.71	-13.00	-54.71	Horizontal
2	2487.000	-75.09	9.16	-65.93	-13.00	-52.93	Horizontal
3	1658.000	-68.71	4.14	-64.57	-13.00	-51.57	Vertical
4	2487.000	-73.95	11.48	-62.47	-13.00	-49.47	Vertical
Middle Channel							
1	1673.000	-71.02	2.59	-68.43	-13.00	-55.43	Horizontal
2	2509.500	-74.81	9.17	-65.64	-13.00	-52.64	Horizontal
3	1673.000	-68.17	4.31	-63.86	-13.00	-50.86	Vertical
4	2509.500	-73.85	11.46	-62.39	-13.00	-49.39	Vertical
Highest Channel							
1	1688.000	-69.43	2.71	-66.72	-13.00	-53.72	Horizontal
2	2532.000	-73.89	9.21	-64.68	-13.00	-51.68	Horizontal
3	1688.000	-69.72	4.49	-65.23	-13.00	-52.23	Vertical
4	2532.000	-74.49	11.46	-63.03	-13.00	-50.03	Vertical

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5.8.10 LTE Band 7

LTE Band 7_20 MHz_QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	5020.000	-66.14	15.89	-50.25	-25.00	-25.25	Horizontal
2	7530.000	-70.43	19.08	-51.35	-25.00	-26.35	Horizontal
3	5020.000	-66.98	16.89	-50.09	-25.00	-25.09	Vertical
4	7530.000	-71.04	18.48	-52.56	-25.00	-27.56	Vertical
Middle Channel							
1	5070.000	-61.51	15.98	-45.53	-25.00	-20.53	Horizontal
2	7605.000	-60.59	19.09	-41.50	-25.00	-16.50	Horizontal
3	5070.000	-60.95	16.97	-43.98	-25.00	-18.98	Vertical
4	7605.000	-57.11	18.47	-38.64	-25.00	-13.64	Vertical
Highest Channel							
1	5121.000	-67.54	16.07	-51.47	-25.00	-26.47	Horizontal
2	7680.000	-66.12	19.10	-47.02	-25.00	-22.02	Horizontal
3	5120.000	-62.04	17.05	-44.99	-25.00	-19.99	Vertical
4	7680.000	-66.15	18.47	-47.68	-25.00	-22.68	Vertical

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5.8.11 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	1408.000	-62.83	0.94	-61.89	-13.00	-48.89	Horizontal
2	2112.000	-70.29	5.78	-64.51	-13.00	-51.51	Horizontal
3	1408.000	-62.59	1.96	-60.63	-13.00	-47.63	Vertical
4	2112.000	-71.59	8.54	-63.05	-13.00	-50.05	Vertical
Middle Channel							
1	1415.000	-64.24	0.96	-63.28	-13.00	-50.28	Horizontal
2	2122.500	-72.23	5.83	-66.40	-13.00	-53.40	Horizontal
3	1415.000	-64.92	1.99	-62.93	-13.00	-49.93	Vertical
4	2122.500	-71.08	8.58	-62.50	-13.00	-49.50	Vertical
Highest Channel							
1	1422.000	-63.39	0.99	-62.40	-13.00	-49.40	Horizontal
2	2133.000	-70.78	5.89	-64.89	-13.00	-51.89	Horizontal
3	1422.000	-64.67	2.02	-62.65	-13.00	-49.65	Vertical
4	2133.000	-72.74	8.63	-64.11	-13.00	-51.11	Vertical

5.8.12 LTE Band 17

LTE Band 17_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Middle Channel							
1	1420.000	-66.27	0.98	-65.29	-13.00	-52.29	Horizontal
2	2130.000	-74.69	5.86	-68.83	-13.00	-55.83	Horizontal
3	1420.000	-63.70	2.01	-61.69	-13.00	-48.69	Vertical
4	2130.000	-71.97	8.60	-63.37	-13.00	-50.37	Vertical

5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
FCC 47 CFR Part 22.355 &
FCC 47 CFR Part 24.235 &
FCC 47 CFR Part 27.54,

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Part 90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.45 Vdc, Normal, 3.85 Vdc and High voltage, 4.4 Vdc.

- 2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

- 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

5.9.1 LTE Band 2

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature ($^{\circ}\text{C}$)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 2 / 20MHz / Full RB							
QPSK	18900 / 1880.0	VL	TN	-9	-0.0048	N/A	Pass
		VN		-1	-0.0005		Pass
		VH		-20	-0.0106		Pass
		VN	50	9	0.0048		Pass
			40	7	0.0037		Pass
			30	6	0.0032		Pass
			20	6	0.0032		Pass
			10	9	0.0048		Pass
			0	-20	-0.0106		Pass
			-10	14	0.0074		Pass
			-20	-10	-0.0053		Pass
			-30	7	0.0037		Pass

5.9.2 LTE Band 4

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 4 / 20MHz / Full RB							
QPSK	20175 / 1732.5	VL	TN	9	0.0052	N/A	Pass
		VN		11	0.0063		Pass
		VH		-4	-0.0023		Pass
		VN	50	4	0.0023		Pass
			40	14	0.0081		Pass
			30	1	0.0006		Pass
			20	13	0.0075		Pass
			10	13	0.0075		Pass
			0	-11	-0.0063		Pass
			-10	4	0.0023		Pass
			-20	-3	-0.0017		Pass
			-30	-9	-0.0052		Pass

5.9.3 LTE Band 5

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 / 10MHz / Full RB							
QPSK	20525 / 836.5	VL	TN	-5	-0.0060	± 2.5	Pass
		VN		-15	-0.0179	± 2.5	Pass
		VH		8	0.0096	± 2.5	Pass
		VN	50	-8	-0.0096	± 2.5	Pass
			40	9	0.0108	± 2.5	Pass
			30	20	0.0239	± 2.5	Pass
			20	6	0.0072	± 2.5	Pass
			10	-6	-0.0072	± 2.5	Pass
			0	19	0.0227	± 2.5	Pass
			-10	5	0.0060	± 2.5	Pass
			-20	18	0.0215	± 2.5	Pass
			-30	-7	-0.0084	± 2.5	Pass

5.9.4 LTE Band 7

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 7 / 20MHz / Full RB							
QPSK	21100 / 2535	VL	TN	-4	-0.0016	N/A	Pass
		VN		-20	-0.0079		Pass
		VH		-6	-0.0024		Pass
		VN	50	-15	-0.0059		Pass
			40	6	0.0024		Pass
			30	7	0.0028		Pass
			20	5	0.0020		Pass
			10	19	0.0075		Pass
			0	-12	-0.0047		Pass
			-10	12	0.0047		Pass
			-20	17	0.0067		Pass
			-30	18	0.0071		Pass

5.9.5 LTE Band 12

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 12 / 10MHz / Full RB							
QPSK	23095 / 707.5	VL	TN	7	0.0099	N/A	Pass
		VN		-2	-0.0028		Pass
		VH		7	0.0099		Pass
		VN	50	-12	-0.0170		Pass
			40	-16	-0.0226		Pass
			30	16	0.0226		Pass
			20	20	0.0283		Pass
			10	2	0.0028		Pass
			0	-6	-0.0085		Pass
			-10	-6	-0.0085		Pass
			-20	12	0.0170		Pass
			-30	10	0.0141		Pass

5.9.6 LTE Band 17

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 13 / 10MHz / Full RB							
QPSK	23230 / 782	VL	TN	14	0.0179	N/A	Pass
		VN		17	0.0217		Pass
		VH		-16	-0.0205		Pass
		VN	50	-18	-0.0230		Pass
			40	-9	-0.0115		Pass
			30	8	0.0102		Pass
			20	-12	-0.0153		Pass
			10	9	0.0115		Pass
			0	4	0.0051		Pass
			-10	-4	-0.0051		Pass
			-20	-9	-0.0115		Pass
			-30	-9	-0.0115		Pass

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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