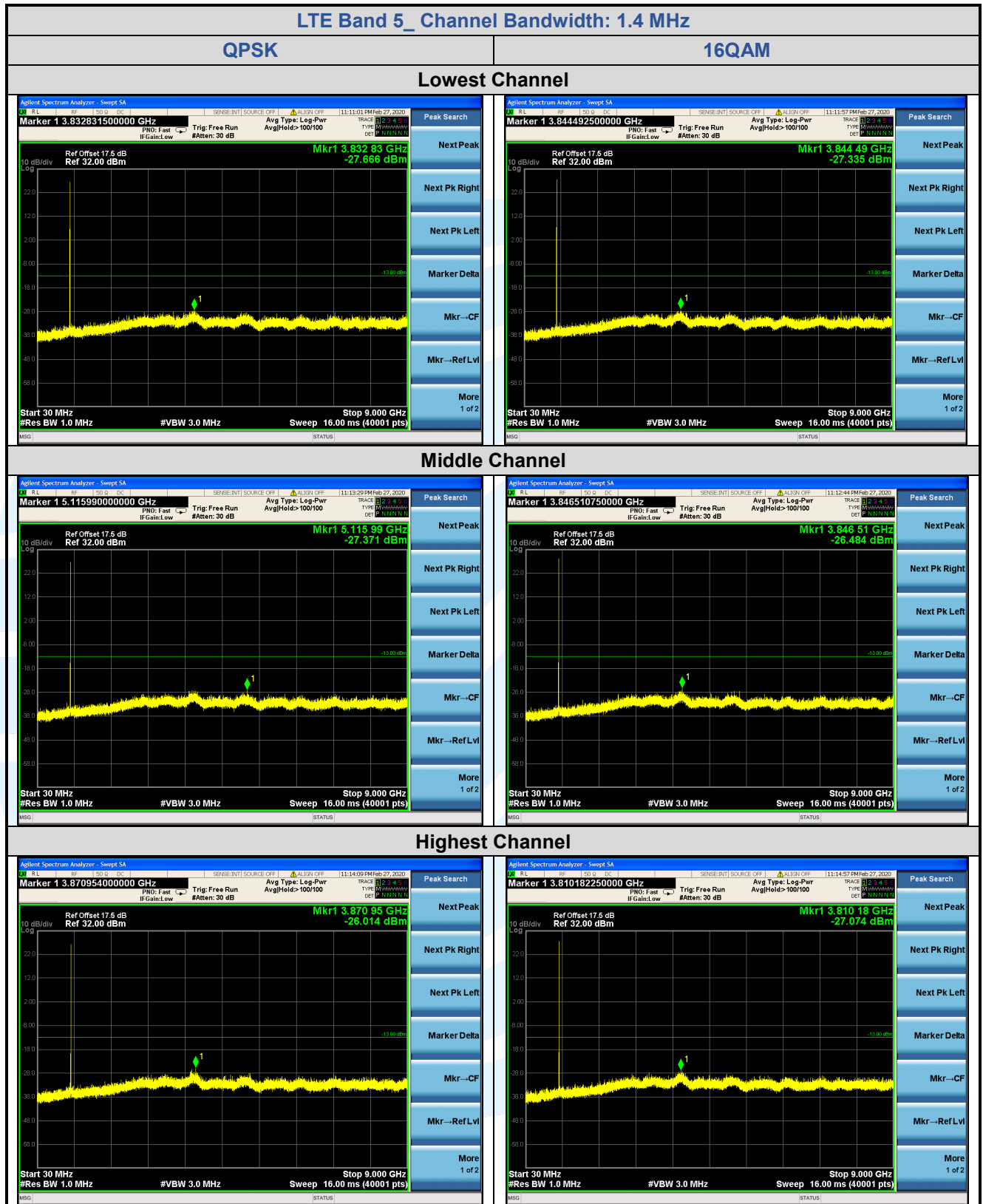
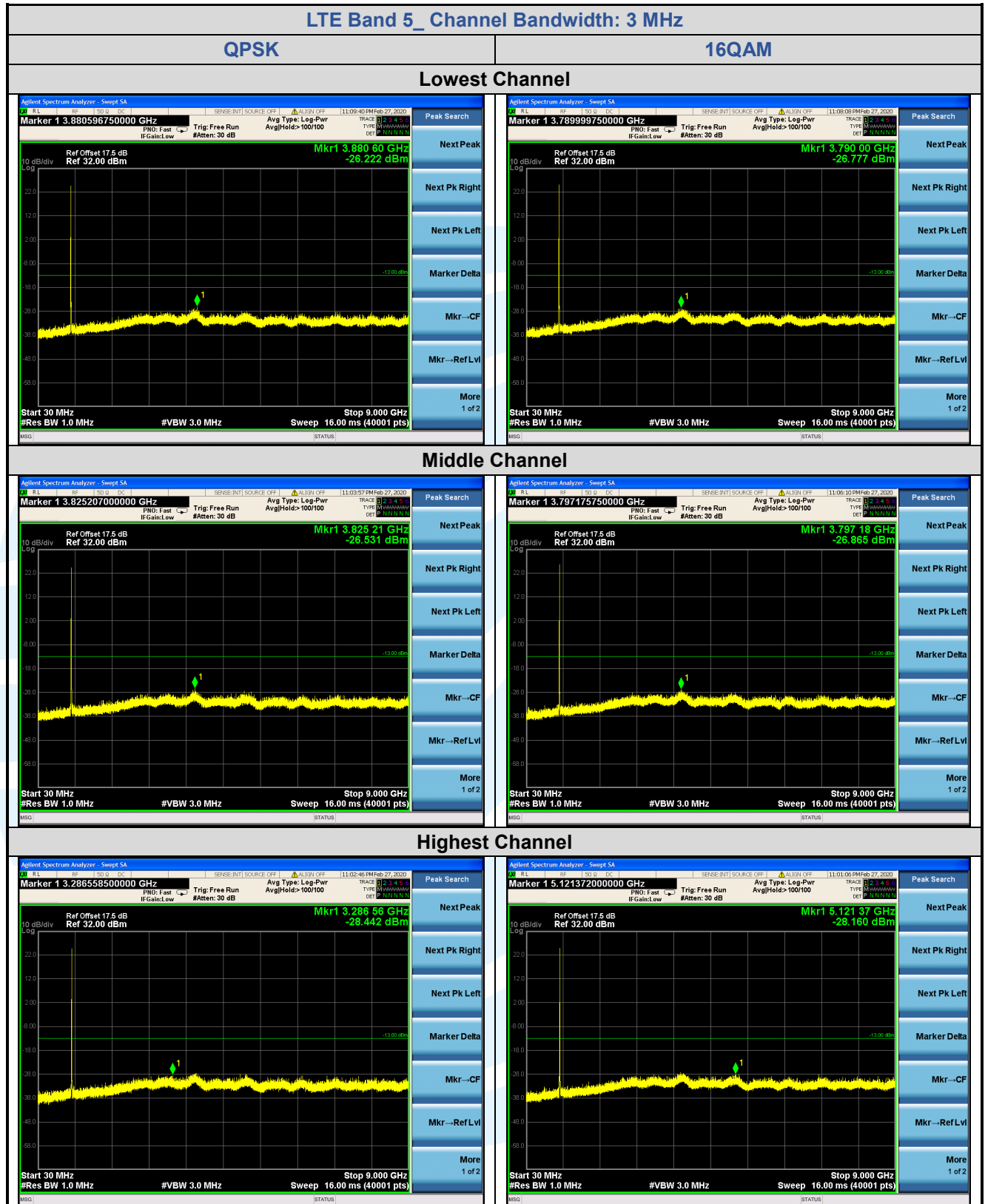
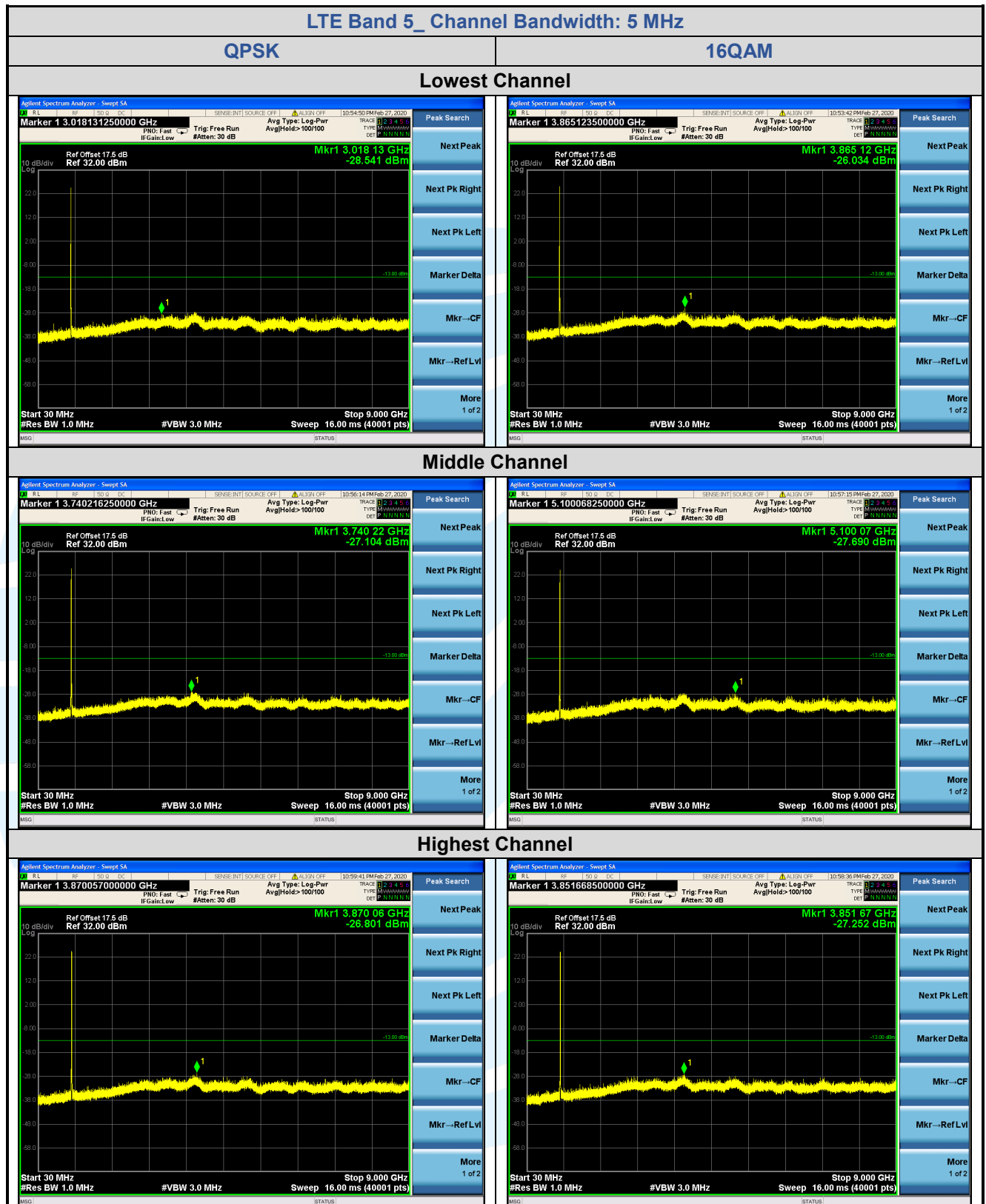
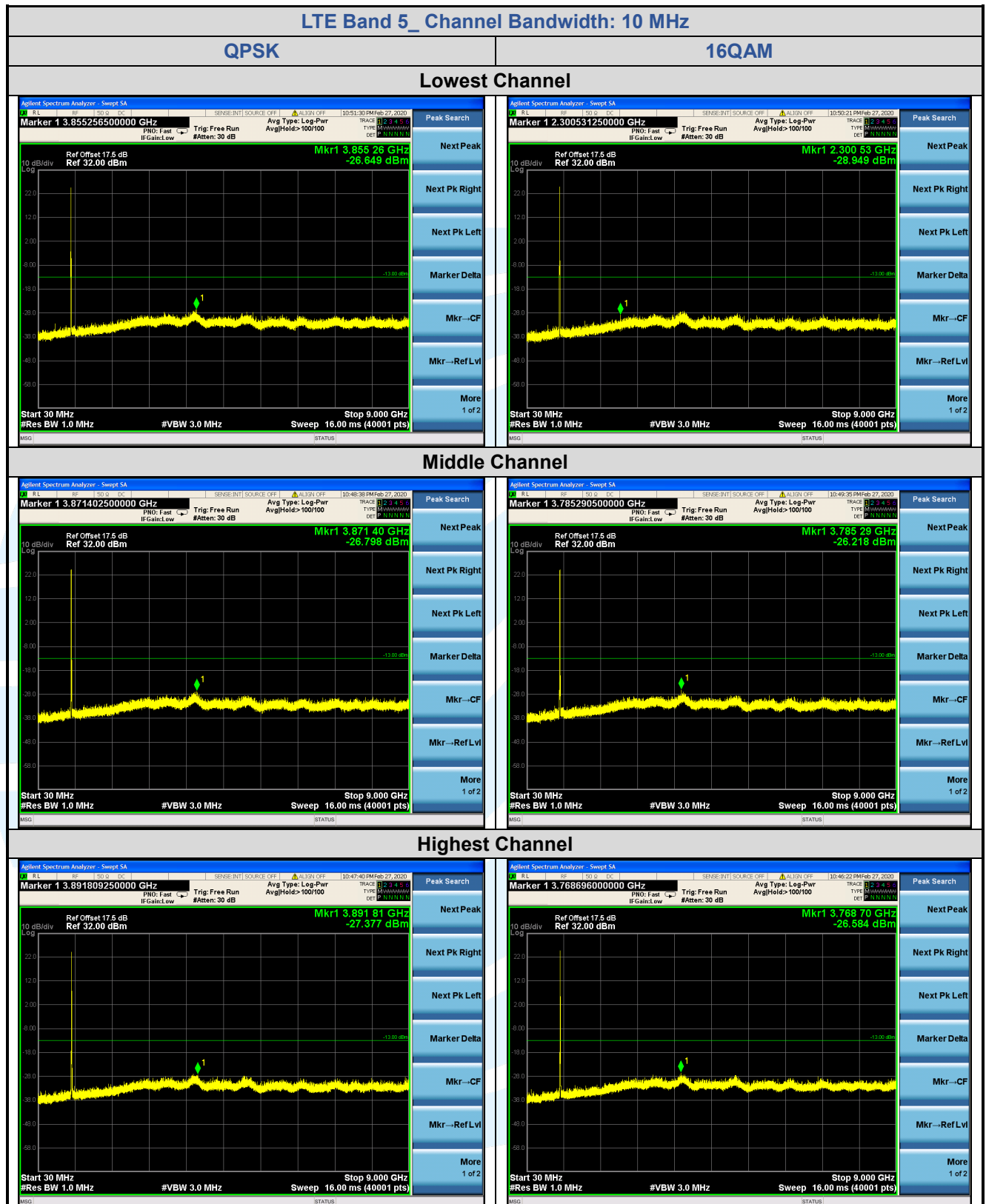


5.7.3 LTE Band 5

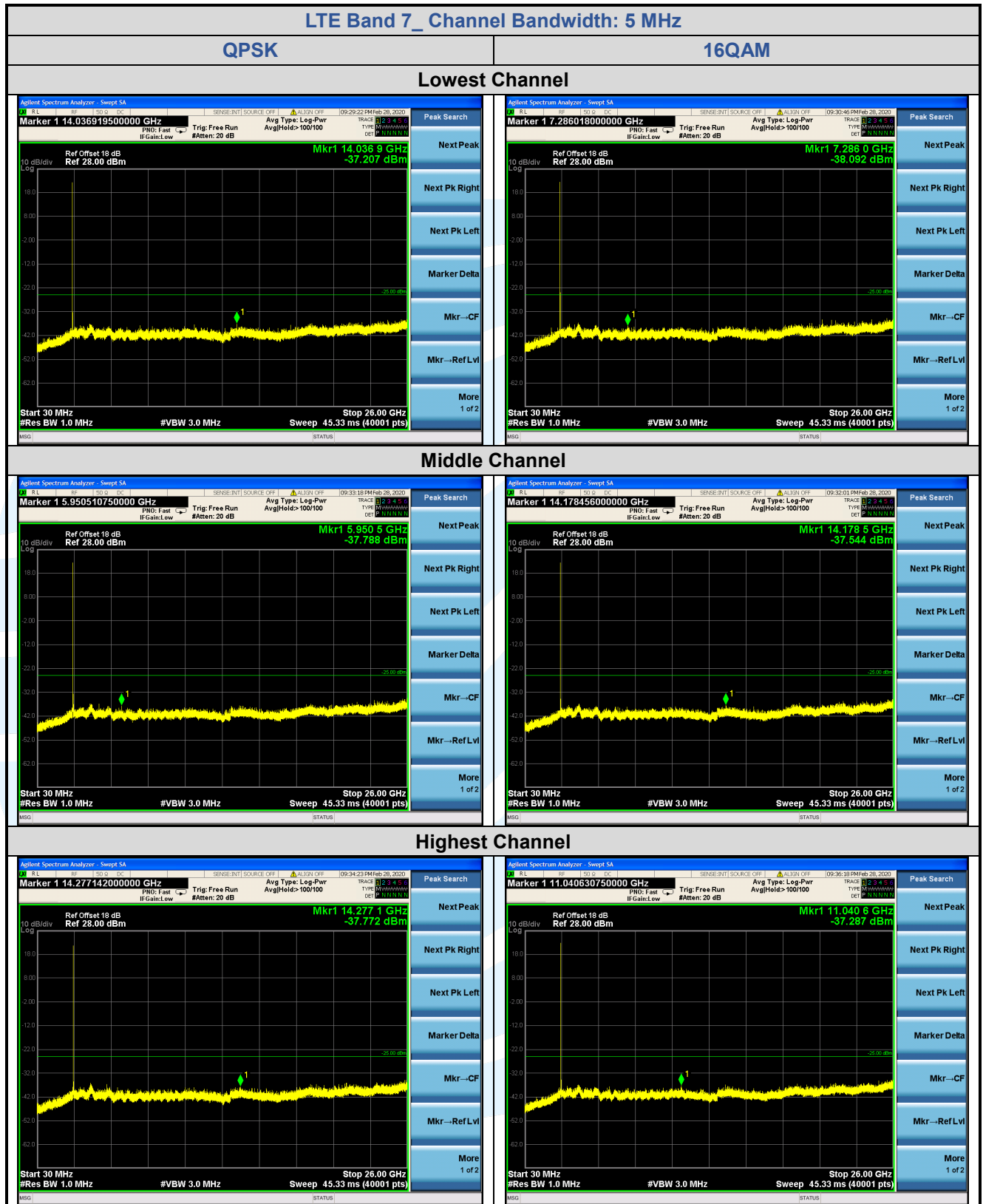


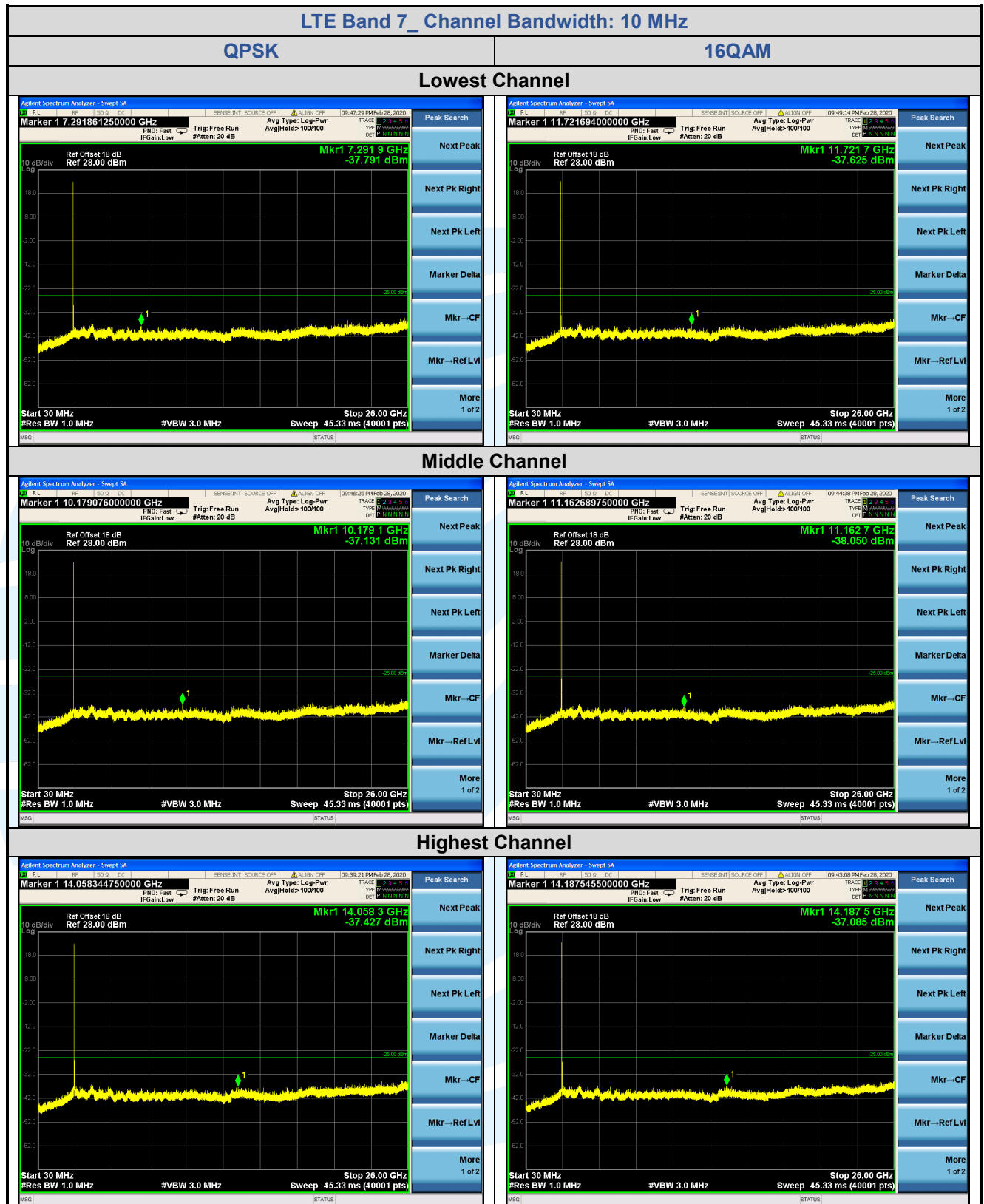


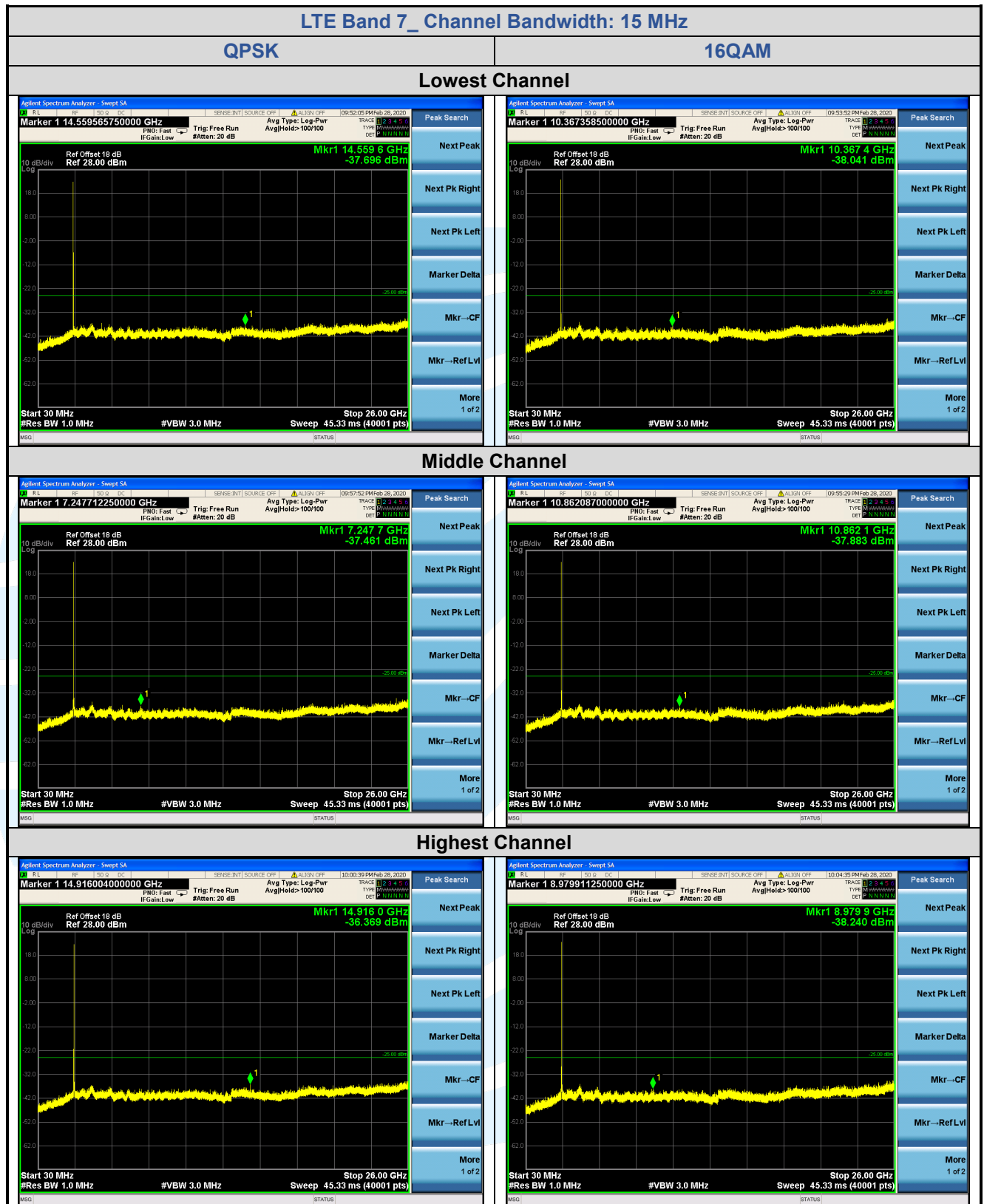


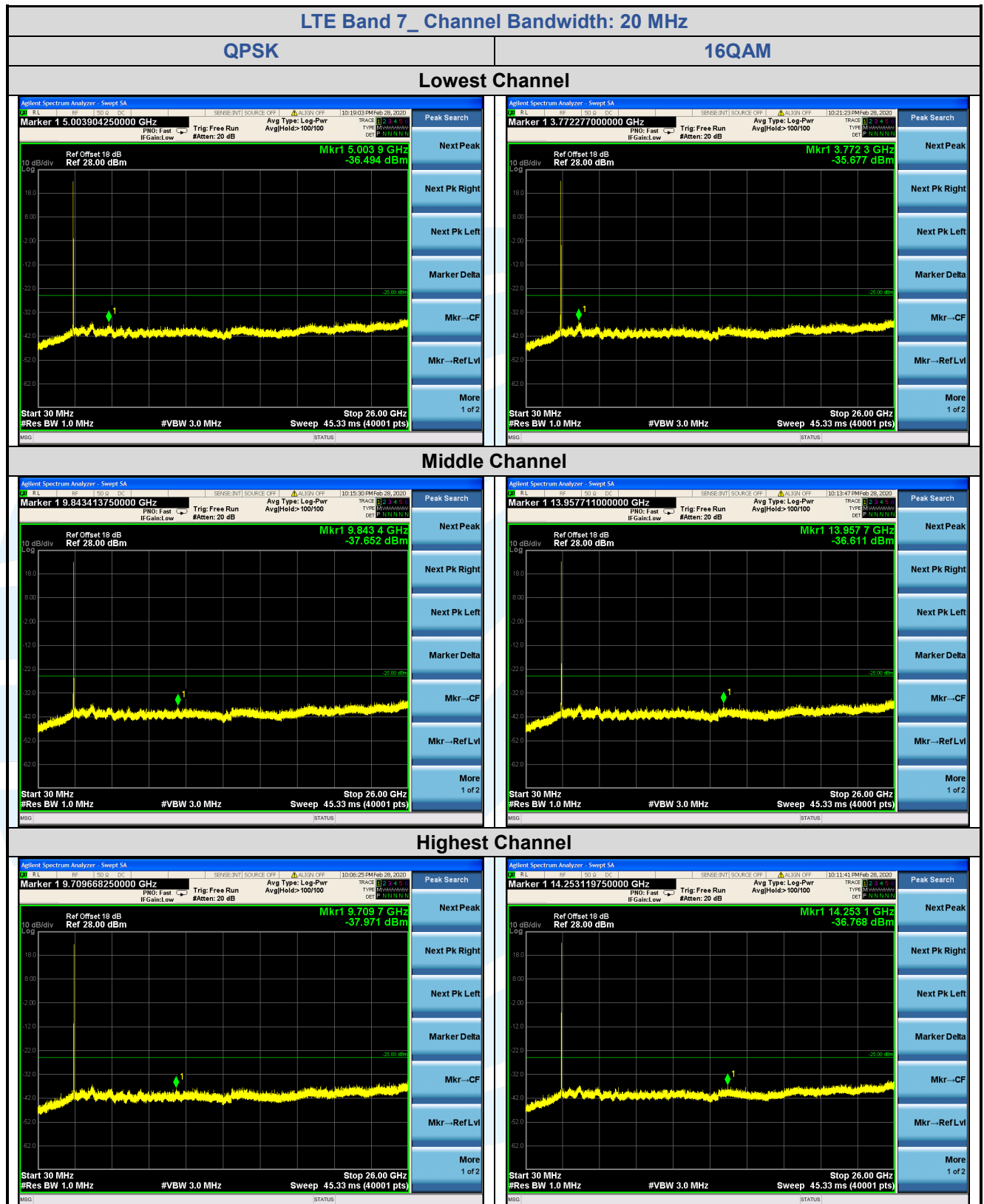


5.7.4 LTE Band 7

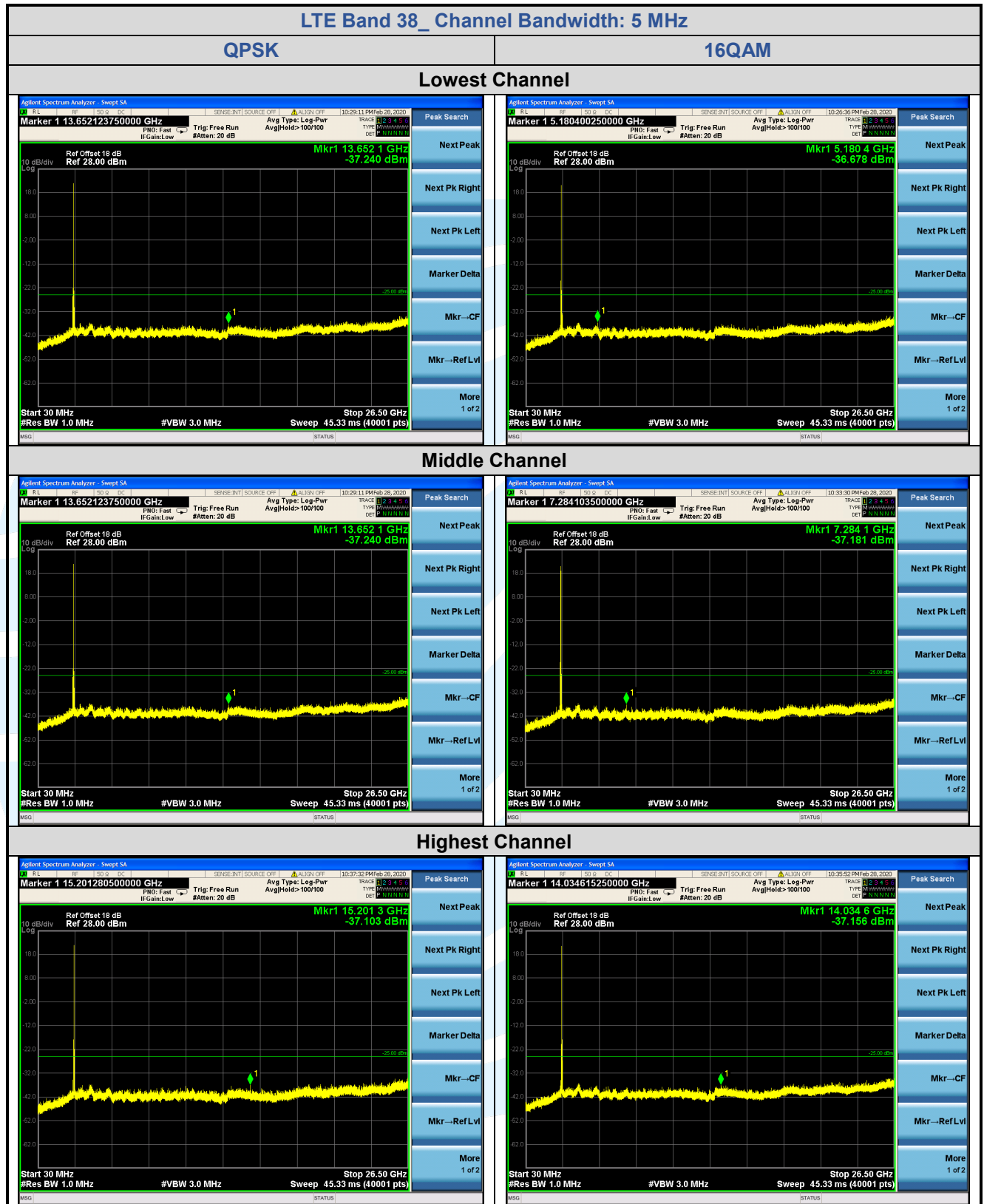


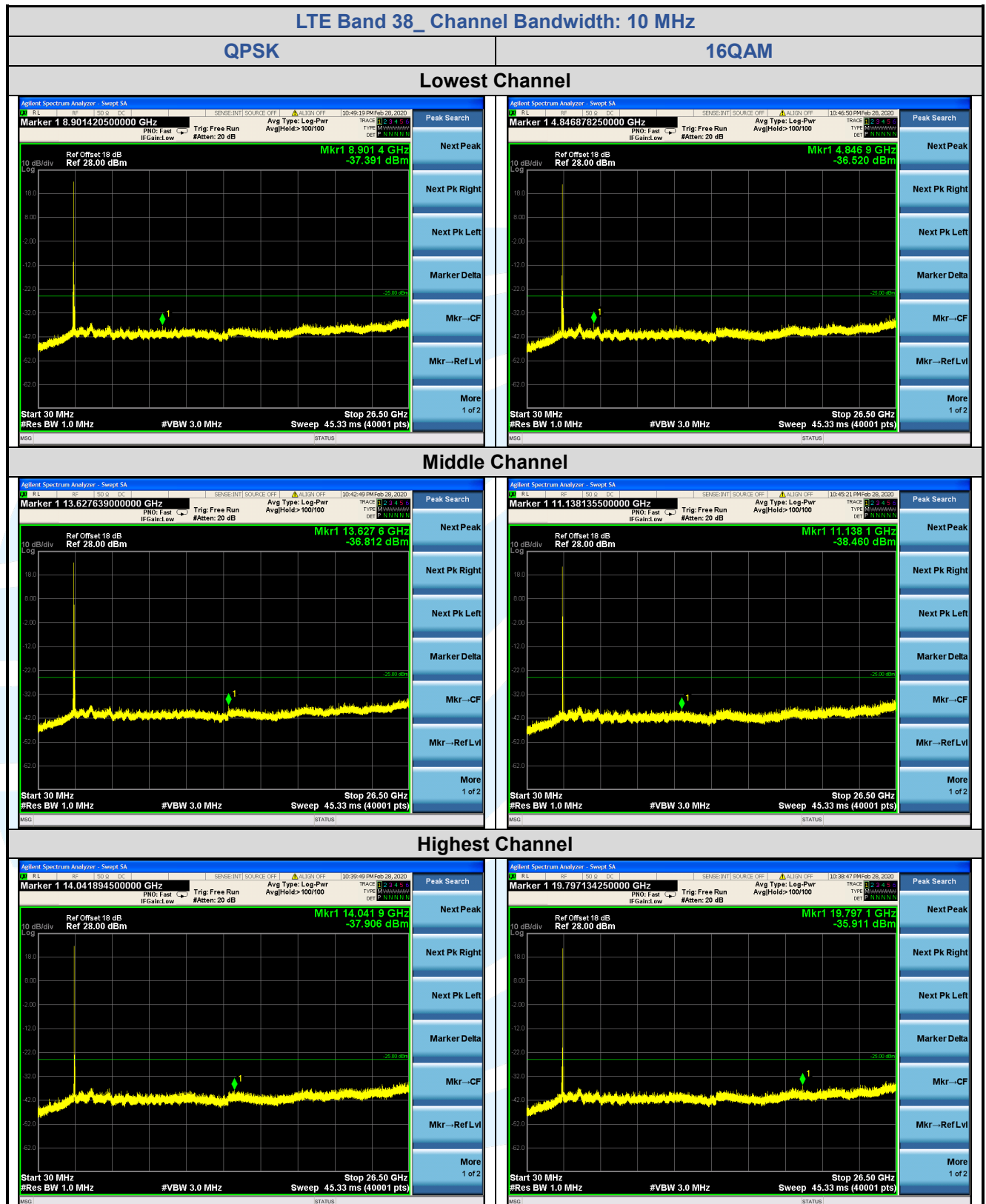


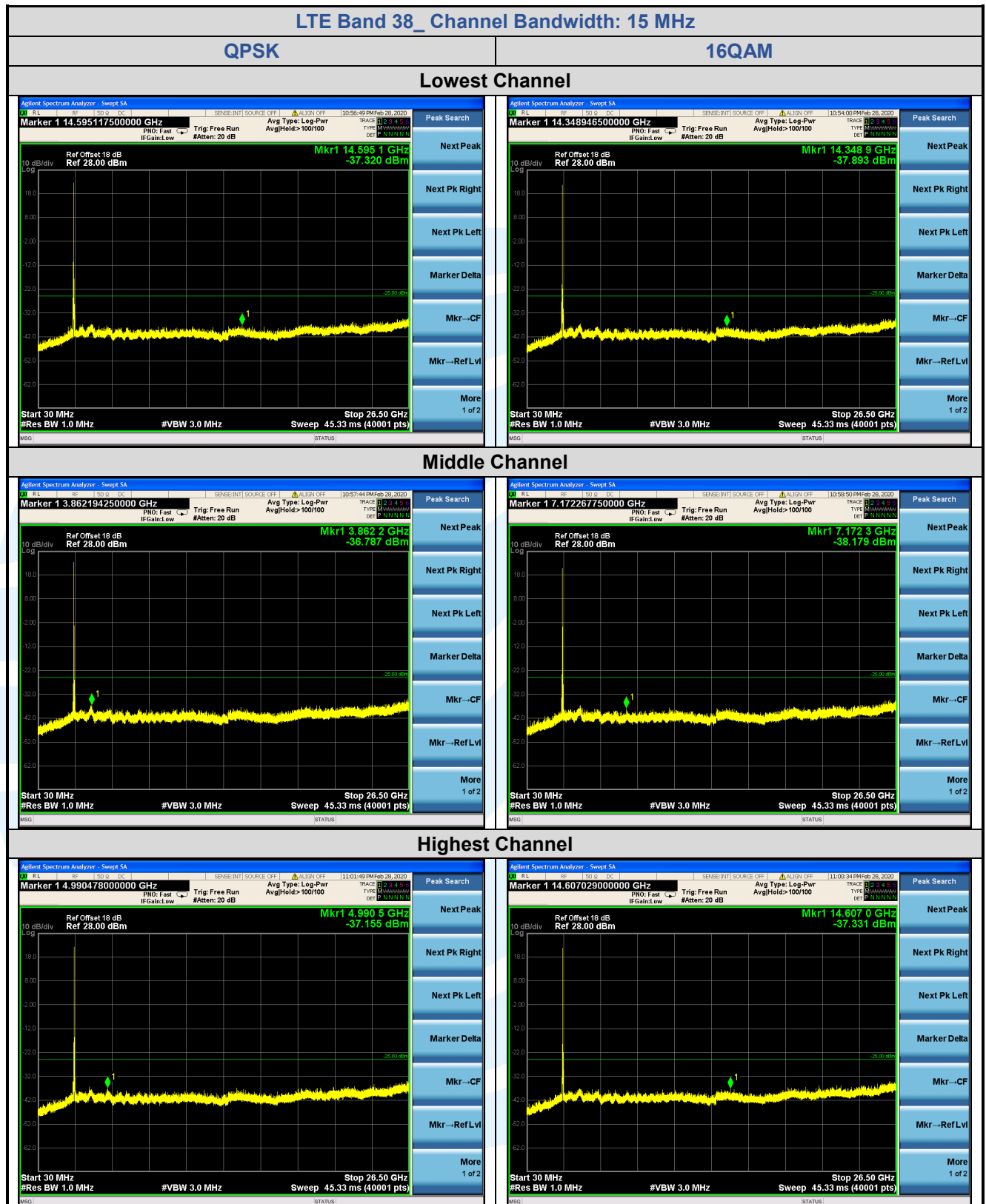


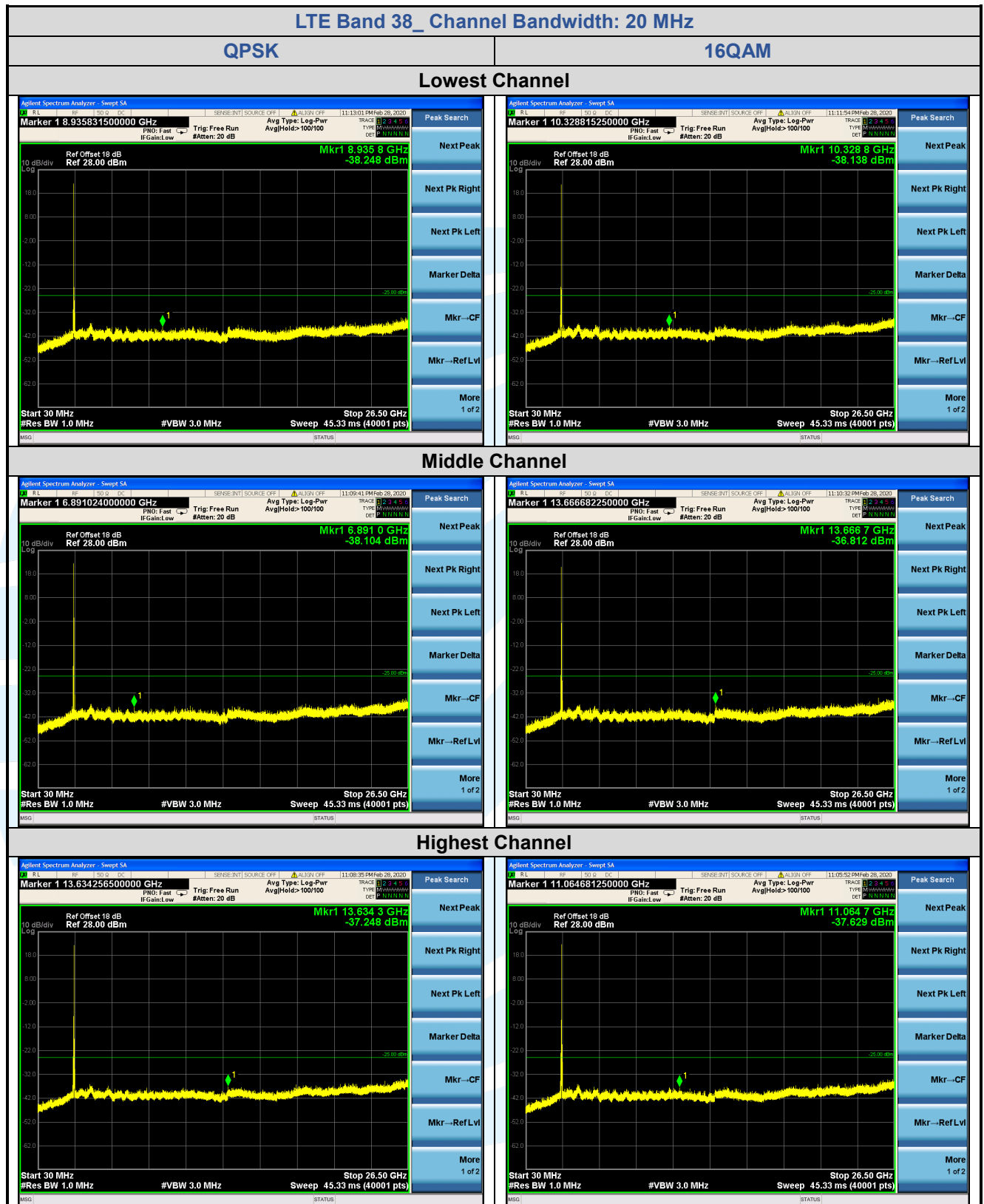


5.7.5 LTE Band 38









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 & Band 38: FCC 47 CFR Part 27.53(m)(4)

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):

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:

5.8.1 LTE Band 2

LTE Band 2_20 MHz_QPSK_(30 MHz-1 GHz)							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	54.135	-72.84	0.82	-72.02	-13.00	-59.02	Horizontal
2	104.798	-77.83	3.25	-74.58	-13.00	-61.58	Horizontal
3	689.051	-81.70	18.13	-63.57	-13.00	-50.57	Horizontal
4	55.288	-76.06	0.81	-75.25	-13.00	-62.25	Vertical
5	427.292	-80.98	13.03	-67.95	-13.00	-54.95	Vertical
6	781.961	-80.27	17.36	-62.91	-13.00	-49.91	Vertical
Middle Channel							
1	55.288	-72.63	0.74	-71.89	-13.00	-58.89	Horizontal
2	341.244	-80.76	10.80	-69.96	-13.00	-56.96	Horizontal
3	958.714	-81.23	23.01	-58.22	-13.00	-45.22	Horizontal
4	46.708	-75.97	1.78	-74.19	-13.00	-61.19	Vertical
5	300.699	-81.03	9.39	-71.64	-13.00	-58.64	Vertical
6	838.887	-81.01	18.71	-62.30	-13.00	-49.30	Vertical
Highest Channel							
1	54.135	-73.33	0.82	-72.51	-13.00	-59.51	Horizontal
2	159.759	-79.09	5.24	-73.85	-13.00	-60.85	Horizontal
3	932.141	-80.54	21.86	-58.68	-13.00	-45.68	Horizontal
4	54.135	-74.20	0.79	-73.41	-13.00	-60.41	Vertical
5	102.612	-78.09	3.28	-74.81	-13.00	-61.81	Vertical
6	912.695	-81.38	20.36	-61.02	-13.00	-48.02	Vertical

LTE Band 2_20 MHz_QPSK_Above 1G							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	3760.000	-75.18	15.54	-59.64	-13.00	-46.64	Horizontal
2	5640.000	-70.81	17.18	-53.63	-13.00	-40.63	Horizontal
3	3760.000	-70.13	15.29	-54.84	-13.00	-41.84	Vertical
4	5640.000	-69.19	16.98	-52.21	-13.00	-39.21	Vertical
Middle Channel							
1	3720.000	-73.24	15.41	-57.83	-13.00	-44.83	Horizontal
2	5580.000	-70.60	17.03	-53.57	-13.00	-40.57	Horizontal
3	3720.000	-76.60	15.15	-61.45	-13.00	-48.45	Vertical
4	5580.000	-71.78	16.83	-54.95	-13.00	-41.95	Vertical
Highest Channel							
1	3800.000	-66.33	15.67	-50.66	-13.00	-37.66	Horizontal
2	5700.000	-68.10	17.40	-50.70	-13.00	-37.70	Horizontal
3	3800.000	-67.04	15.43	-51.61	-13.00	-38.61	Vertical
4	5700.000	-64.86	17.20	-47.66	-13.00	-34.66	Vertical

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5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK_ (30 MHz-1 GHz)							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	51.900	-74.42	0.98	-73.44	-13.00	-60.44	Horizontal
2	105.537	-78.37	3.24	-75.13	-13.00	-62.13	Horizontal
3	979.139	-82.88	23.24	-59.64	-13.00	-46.64	Horizontal
4	54.135	-74.97	0.79	-74.18	-13.00	-61.18	Vertical
5	266.839	-81.77	8.54	-73.23	-13.00	-60.23	Vertical
6	972.283	-81.05	22.13	-58.92	-13.00	-45.92	Vertical
Middle Channel							
1	56.071	-74.00	0.68	-73.32	-13.00	-60.32	Horizontal
2	101.893	-78.94	3.29	-75.65	-13.00	-62.65	Horizontal
3	979.139	-83.44	23.24	-60.20	-13.00	-47.20	Horizontal
4	54.135	-74.01	0.79	-73.22	-13.00	-60.22	Vertical
5	104.064	-77.86	3.26	-74.60	-13.00	-61.60	Vertical
6	979.139	-81.68	22.36	-59.32	-13.00	-46.32	Vertical
Highest Channel							
1	53.756	-74.52	0.84	-73.68	-13.00	-60.68	Horizontal
2	104.798	-77.68	3.25	-74.43	-13.00	-61.43	Horizontal
3	958.714	-82.40	23.01	-59.39	-13.00	-46.39	Horizontal
4	53.756	-74.92	0.78	-74.14	-13.00	-61.14	Vertical
5	427.292	-80.71	13.03	-67.68	-13.00	-54.68	Vertical
6	986.044	-83.17	22.59	-60.58	-13.00	-47.58	Vertical

LTE Band 4_20 MHz_QPSK_Above 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	3440.000	-66.05	13.89	-52.16	-13.00	-39.16	Horizontal
2	5160.000	-71.99	16.46	-55.53	-13.00	-42.53	Horizontal
3	3440.000	-71.62	13.59	-58.03	-13.00	-45.03	Vertical
4	5160.000	-70.38	16.13	-54.25	-13.00	-41.25	Vertical
Middle Channel							
1	3465.000	-63.60	14.07	-49.53	-13.00	-36.53	Horizontal
2	5197.500	-69.28	16.61	-52.67	-13.00	-39.67	Horizontal
3	3465.000	-63.25	13.77	-49.48	-13.00	-36.48	Vertical
4	5197.500	-67.17	16.29	-50.88	-13.00	-37.88	Vertical
Highest Channel							
1	3490.000	-70.56	14.23	-56.33	-13.00	-43.33	Horizontal
2	5235.000	-70.79	16.67	-54.12	-13.00	-41.12	Horizontal
3	3490.000	-71.52	13.93	-57.59	-13.00	-44.59	Vertical
4	5235.000	-70.46	16.37	-54.09	-13.00	-41.09	Vertical

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5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK_ (30 MHz-1 GHz)							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	56.071	-74.04	23.66	-50.38	-13.00	-37.38	Horizontal
2	77.468	-75.74	24.47	-51.27	-13.00	-38.27	Horizontal
3	713.692	-80.70	41.60	-39.10	-13.00	-26.10	Horizontal
4	54.135	-74.64	23.77	-50.87	-13.00	-37.87	Vertical
5	101.893	-78.51	26.17	-52.34	-13.00	-39.34	Vertical
6	693.910	-81.12	40.49	-40.63	-13.00	-27.63	Vertical
Middle Channel							
1	54.901	-73.87	23.74	-50.13	-13.00	-37.13	Horizontal
2	160.885	-80.83	27.88	-52.95	-13.00	-39.95	Horizontal
3	728.897	-81.35	41.36	-39.99	-13.00	-26.99	Horizontal
4	53.379	-73.64	23.75	-49.89	-13.00	-36.89	Vertical
5	103.335	-78.83	26.14	-52.69	-13.00	-39.69	Vertical
6	693.910	-81.22	40.49	-40.73	-13.00	-27.73	Vertical
Highest Channel							
1	54.135	-73.68	23.80	-49.88	-13.00	-36.88	Horizontal
2	105.537	-78.47	26.11	-52.36	-13.00	-39.36	Horizontal
3	787.475	-81.25	42.22	-39.03	-13.00	-26.03	Horizontal
4	55.678	-73.71	23.80	-49.91	-13.00	-36.91	Vertical
5	103.335	-78.65	26.14	-52.51	-13.00	-39.51	Vertical
6	827.179	-80.98	42.21	-38.77	-13.00	-25.77	Vertical

LTE Band 5_ 10 MHz_ QPSK_ Above 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	1658.000	-69.63	3.28	-66.35	-13.00	-53.35	Horizontal
2	2487.000	-69.98	11.46	-58.52	-13.00	-45.52	Horizontal
3	1658.000	-55.50	4.14	-65.75	-13.00	-52.75	Vertical
4	3316.000	-60.45	13.28	-60.01	-13.00	-47.01	Vertical
Middle Channel							
1	1673.000	-70.64	3.44	-67.20	-13.00	-54.20	Horizontal
2	2509.500	-75.44	11.46	-63.98	-13.00	-50.98	Horizontal
3	1673.000	-69.29	3.50	-65.79	-13.00	-52.79	Vertical
4	2509.500	-69.33	11.26	-58.07	-13.00	-45.07	Vertical
Highest Channel							
1	1688.000	-70.92	3.60	-67.32	-13.00	-54.32	Horizontal
2	2532.000	-75.51	11.47	-64.04	-13.00	-51.04	Horizontal
3	1688.000	-70.46	3.65	-66.81	-13.00	-53.81	Vertical
4	2532.000	-73.85	11.26	-62.59	-13.00	-49.59	Vertical

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5.8.4 LTE Band 7

LTE Band 7_20 MHz_QPSK_(30 MHz-1 GHz)							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	53.756	-75.02	0.84	-74.18	-25.00	-49.18	Horizontal
2	106.281	-78.17	3.23	-74.94	-25.00	-49.94	Horizontal
3	979.139	-82.98	23.24	-59.74	-25.00	-34.74	Horizontal
4	55.678	-74.22	0.82	-73.40	-25.00	-48.40	Vertical
5	101.893	-77.65	3.29	-74.36	-25.00	-49.36	Vertical
6	965.474	-81.79	21.91	-59.88	-25.00	-34.88	Vertical
Middle Channel							
1	53.379	-73.93	0.87	-73.06	-25.00	-48.06	Horizontal
2	98.375	-77.67	3.13	-74.54	-25.00	-49.54	Horizontal
3	972.283	-82.22	23.10	-59.12	-25.00	-34.12	Horizontal
4	55.288	-74.06	0.81	-73.25	-25.00	-48.25	Vertical
5	140.777	-78.51	3.39	-75.12	-25.00	-50.12	Vertical
6	945.334	-81.75	21.34	-60.41	-25.00	-35.41	Vertical
Highest Channel							
1	52.634	-74.60	0.92	-73.68	-25.00	-48.68	Horizontal
2	101.893	-76.97	3.29	-73.68	-25.00	-48.68	Horizontal
3	945.334	-82.01	22.67	-59.34	-25.00	-34.34	Horizontal
4	55.288	-73.98	0.81	-73.17	-25.00	-48.17	Vertical
5	101.893	-78.18	3.29	-74.89	-25.00	-49.89	Vertical
6	945.334	-81.70	21.34	-60.36	-25.00	-35.36	Vertical

LTE Band 7_20 MHz_QPSK_Above 1G							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	5070.000	-68.19	16.12	-52.07	-25.00	-27.07	Horizontal
2	7605.000	-67.63	18.78	-48.85	-25.00	-23.85	Horizontal
3	5070.000	-69.36	15.75	-53.61	-25.00	-28.61	Vertical
4	7605.000	-67.09	18.56	-48.53	-25.00	-23.53	Vertical
Middle Channel							
1	5120.000	-67.46	16.31	-51.15	-25.00	-26.15	Horizontal
2	7680.000	-66.86	18.85	-48.01	-25.00	-23.01	Horizontal
3	5120.000	-69.46	15.96	-53.50	-25.00	-28.50	Vertical
4	7680.000	-67.01	18.70	-48.31	-25.00	-23.31	Vertical
Highest Channel							
1	5020.000	-64.27	15.93	-48.34	-25.00	-23.34	Horizontal
2	7530.000	-66.75	18.71	-48.04	-25.00	-23.04	Horizontal
3	5020.000	-68.08	15.54	-52.54	-25.00	-27.54	Vertical
4	7530.000	-66.43	18.44	-47.99	-25.00	-22.99	Vertical

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5.8.5 LTE Band 38

LTE Band 38_ 20 MHz_ QPSK_ (30 MHz-1 GHz)							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	56.071	-71.56	0.68	-70.88	-25.00	-45.88	Horizontal
2	103.335	-76.59	3.26	-73.33	-25.00	-48.33	Horizontal
3	979.139	-82.60	23.24	-59.36	-25.00	-34.36	Horizontal
4	54.135	-72.64	0.79	-71.85	-25.00	-46.85	Vertical
5	104.064	-78.25	3.26	-74.99	-25.00	-49.99	Vertical
6	945.334	-81.86	21.34	-60.52	-25.00	-35.52	Vertical
Middle Channel							
1	54.135	-72.31	0.82	-71.49	-25.00	-46.49	Horizontal
2	101.893	-77.96	3.29	-74.67	-25.00	-49.67	Horizontal
3	965.474	-82.40	23.04	-59.36	-25.00	-34.36	Horizontal
4	54.135	-70.89	0.79	-70.10	-25.00	-45.10	Vertical
5	104.798	-77.47	3.25	-74.22	-25.00	-49.22	Vertical
6	893.656	-80.72	19.68	-61.04	-25.00	-36.04	Vertical
Highest Channel							
1	55.288	-71.12	0.74	-70.38	-25.00	-45.38	Horizontal
2	250.486	-80.59	8.13	-72.46	-25.00	-47.46	Horizontal
3	912.695	-80.93	20.81	-60.12	-25.00	-35.12	Horizontal
4	55.288	-71.12	0.81	-70.31	-25.00	-45.31	Vertical
5	102.612	-78.13	3.28	-74.85	-25.00	-49.85	Vertical
6	912.695	-80.93	20.36	-60.57	-25.00	-35.57	Vertical

LTE Band 38_ 20 MHz_ QPSK _ Above 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	5160.000	-69.93	16.46	-53.47	-25.00	-28.47	Horizontal
2	7740.000	-65.90	18.91	-46.99	-25.00	-21.99	Horizontal
3	5160.000	-68.60	16.13	-52.47	-25.00	-27.47	Vertical
4	7740.000	-66.01	18.80	-47.21	-25.00	-22.21	Vertical
Middle Channel							
1	5190.000	-71.15	16.57	-54.58	-25.00	-29.58	Horizontal
2	7785.000	-66.54	18.95	-47.59	-25.00	-22.59	Horizontal
3	5190.000	-71.00	16.24	-54.76	-25.00	-29.76	Vertical
4	7785.000	-67.02	18.88	-48.14	-25.00	-23.14	Vertical
Highest Channel							
1	5220.000	-65.15	16.64	-48.51	-25.00	-23.51	Horizontal
2	7830.000	-67.47	18.97	-48.50	-25.00	-23.50	Horizontal
3	5220.000	-67.48	16.33	-51.15	-25.00	-26.15	Vertical
4	7830.000	-64.60	18.94	-45.66	-25.00	-20.66	Vertical

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UTTR-RF-FCC4G-V1.0

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



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 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°C
 - b) Voltage = low voltage, 3.4 Vdc, Normal, 3.8Vdc and High voltage, 4.35 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°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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 2 / 20MHz / Full RB							
QPSK	18900 / 1880.0	VL	TN	35	0.0186	N/A	Pass
		VN		31	0.0165		Pass
		VH		33	0.0176		Pass
		VN	50	31	0.0165		Pass
			40	28	0.0149		Pass
			30	29	0.0154		Pass
			20	27	0.0144		Pass
			10	31	0.0165		Pass
			0	33	0.0176		Pass
			-10	33	0.0176		Pass
			-20	27	0.0144		Pass
			-30	29	0.0154		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	31	0.0179	N/A	Pass
		VN		27	0.0156		Pass
		VH		26	0.0150		Pass
		VN	50	33	0.0190		Pass
			40	32	0.0185		Pass
			30	33	0.0190		Pass
			20	28	0.0162		Pass
			10	27	0.0156		Pass
			0	28	0.0162		Pass
			-10	27	0.0156		Pass
			-20	29	0.0167		Pass
			-30	34	0.0196		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	31	0.0371	± 2.5	Pass
		VN		28	0.0335	± 2.5	Pass
		VH		26	0.0311	± 2.5	Pass
		VN	50	27	0.0323	± 2.5	Pass
			40	28	0.0335	± 2.5	Pass
			30	27	0.0323	± 2.5	Pass
			20	28	0.0335	± 2.5	Pass
			10	24	0.0287	± 2.5	Pass
			0	26	0.0311	± 2.5	Pass
			-10	26	0.0311	± 2.5	Pass
			-20	26	0.0311	± 2.5	Pass
			-30	25	0.0299	± 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	-35	-0.0138	N/A	Pass
		VN		-33	-0.0130		Pass
		VH		-35	-0.0138		Pass
		VN	50	-34	-0.0134		Pass
			40	-37	-0.0146		Pass
			30	-29	-0.0114		Pass
			20	-39	-0.0154		Pass
			10	-35	-0.0138		Pass
			0	-35	-0.0138		Pass
			-10	-33	-0.0130		Pass
			-20	-33	-0.0130		Pass
			-30	-35	-0.0138		Pass

5.9.5 LTE Band 38

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 38 / 20MHz / Full RB							
QPSK	38000 / 2595	VL	TN	-29	-0.0112	N/A	Pass
		VN		-32	-0.0123		Pass
		VH		-27	-0.0104		Pass
		VN	50	-35	-0.0135		Pass
			40	-31	-0.0119		Pass
			30	-27	-0.0104		Pass
			20	-28	-0.0108		Pass
			10	-33	-0.0127		Pass
			0	-35	-0.0135		Pass
			-10	-34	-0.0131		Pass
			-20	-33	-0.0127		Pass
			-30	-34	-0.0131		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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