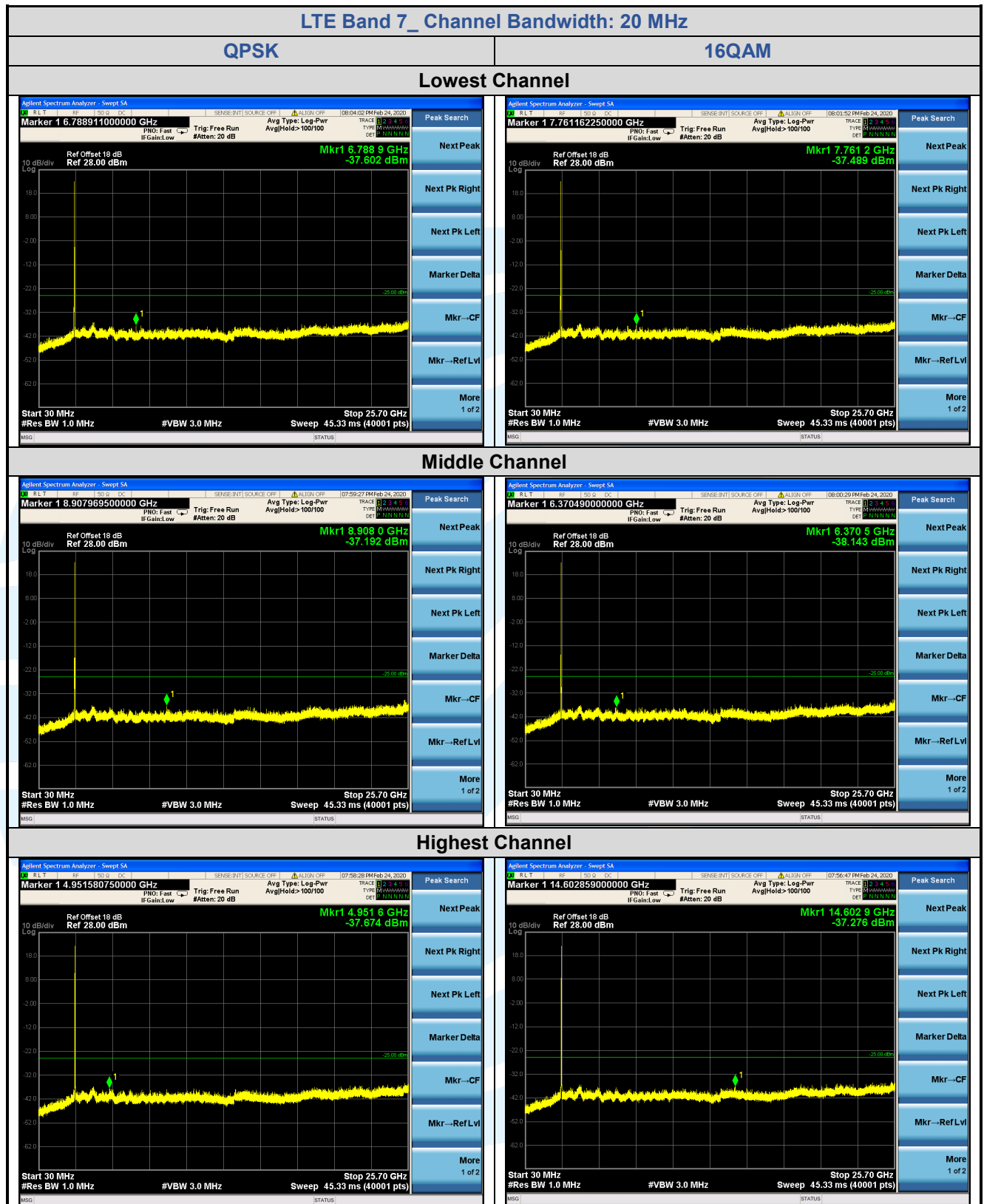
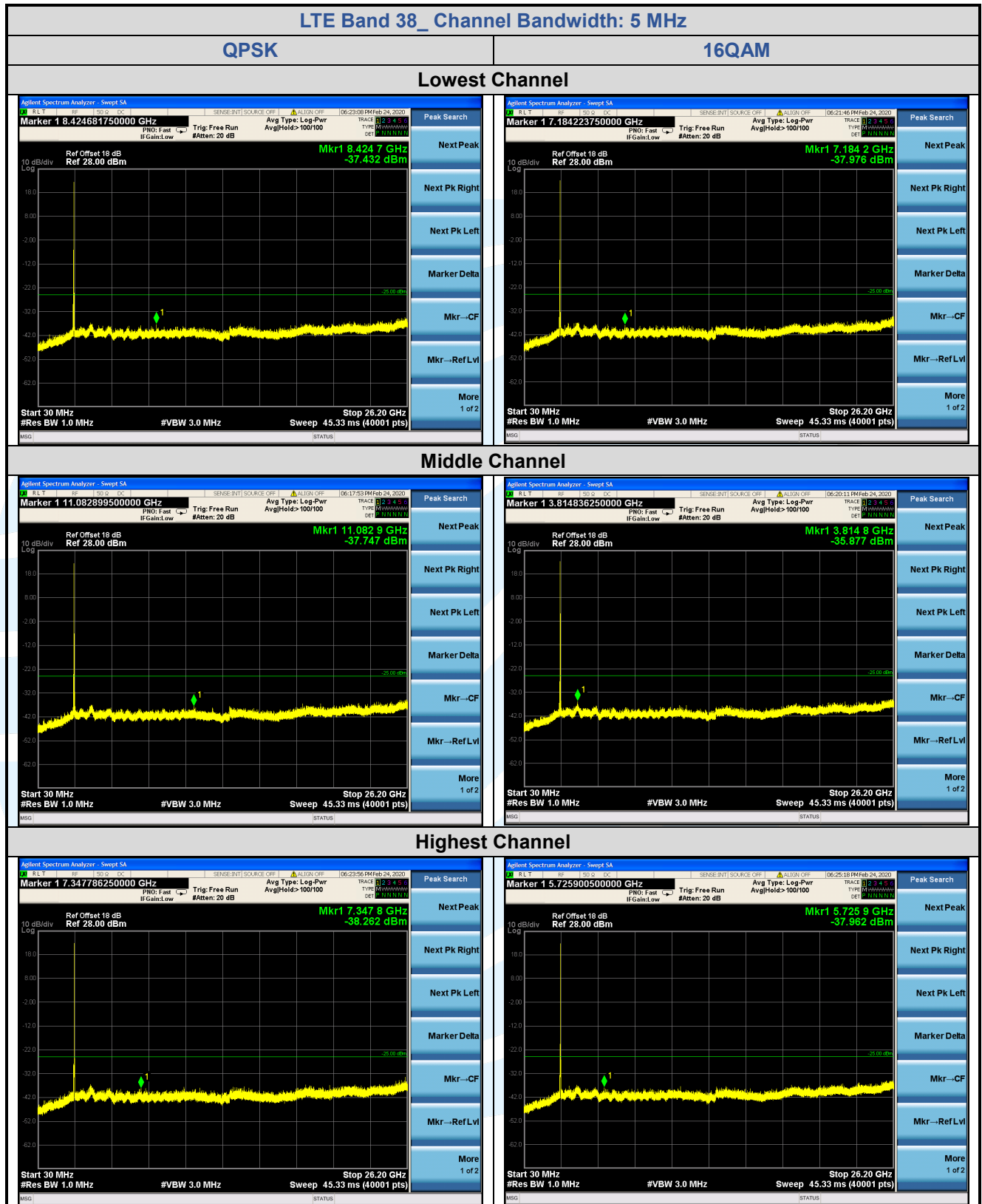
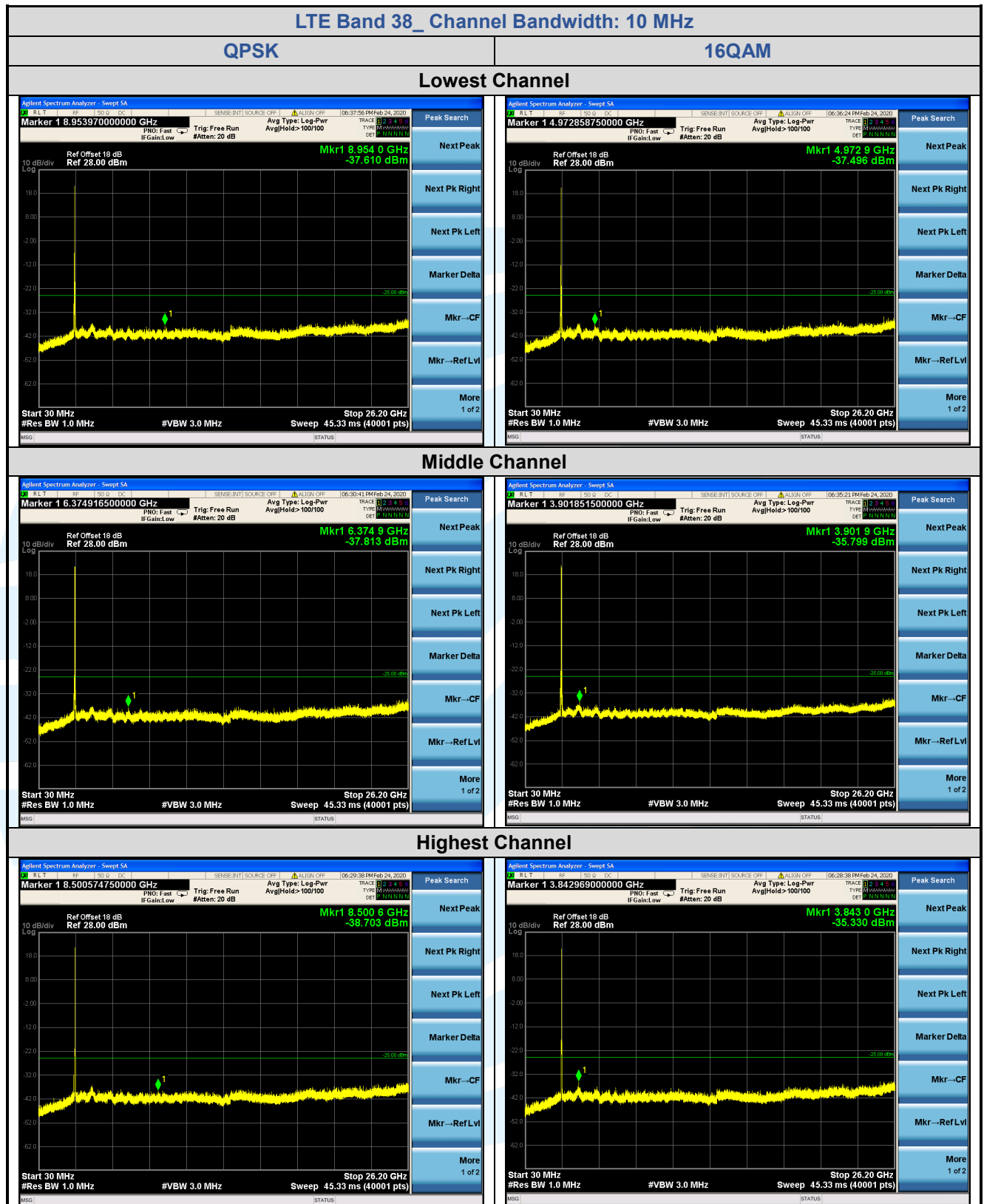
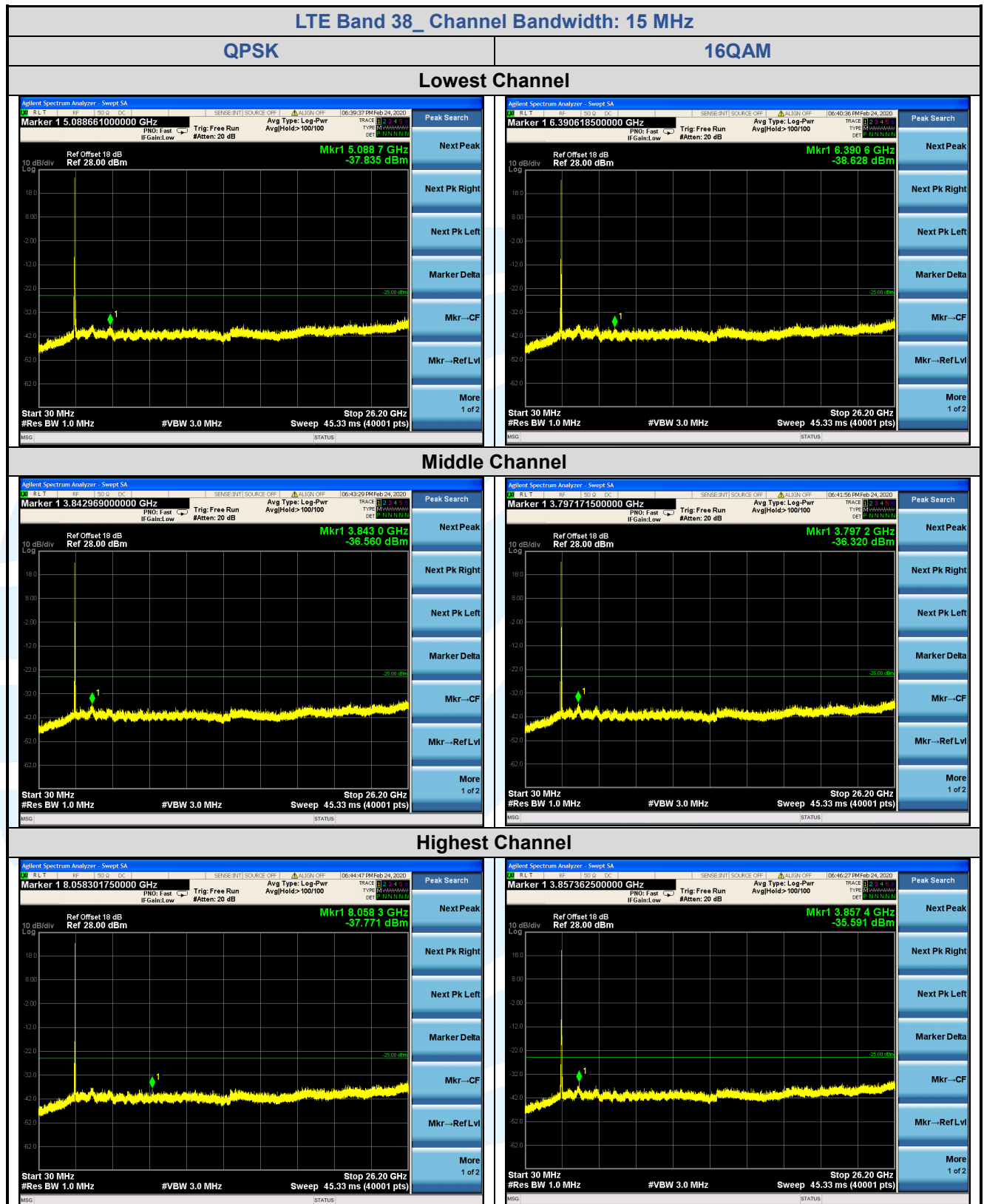


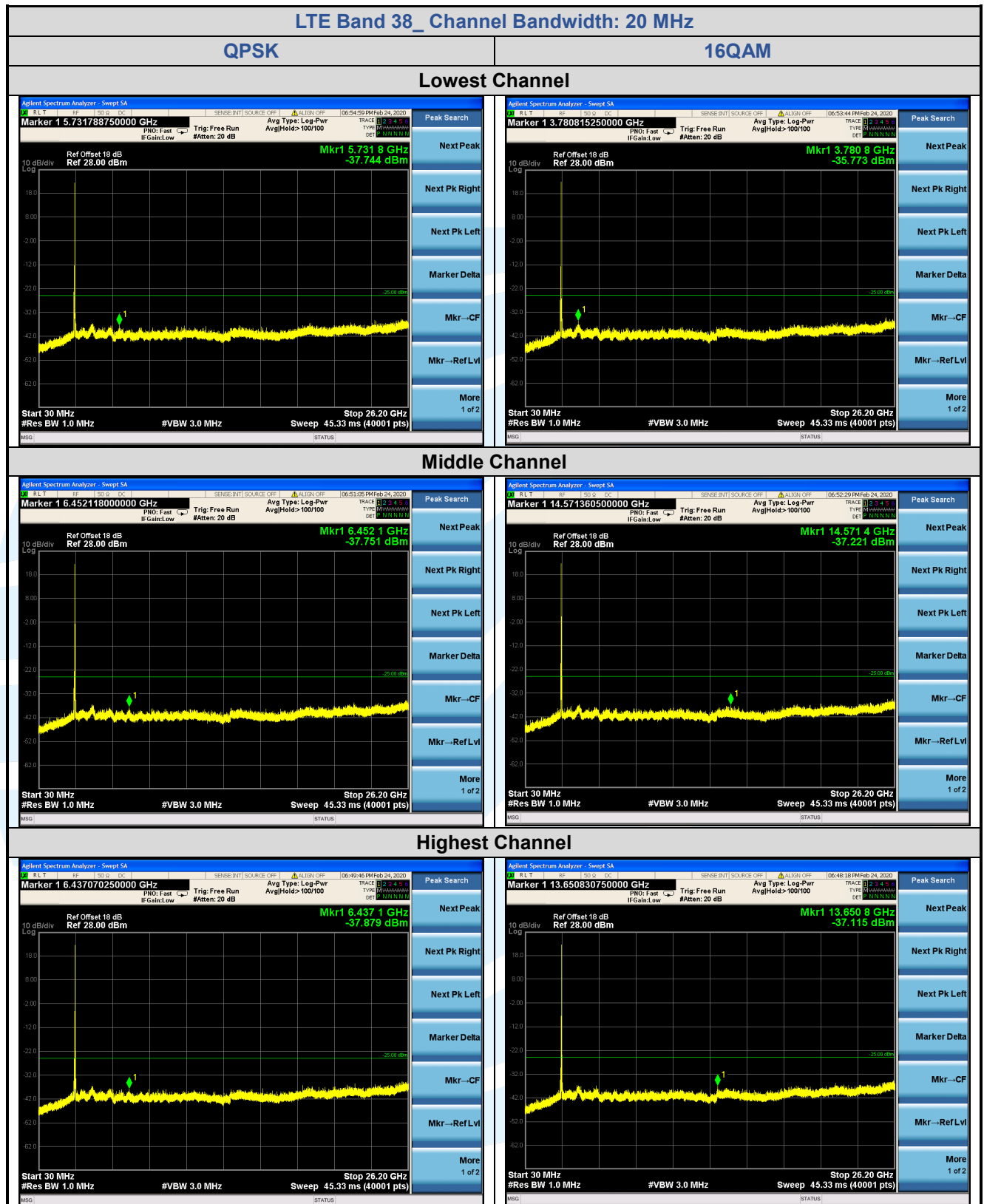


5.7.5 LTE Band 38









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	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	87.914	-85.82	19.08	-66.74	-13.00	-53.74	Horizontal
2	304.955	-88.97	25.85	-63.12	-13.00	-50.12	Horizontal
3	932.141	-87.25	39.11	-48.14	-13.00	-35.14	Horizontal
4	34.770	-90.00	24.45	-65.55	-13.00	-52.55	Vertical
5	254.031	-87.99	24.67	-63.32	-13.00	-50.32	Vertical
6	868.886	-87.37	36.45	-50.92	-13.00	-37.92	Vertical
Middle Channel							
1	36.781	-89.84	23.74	-66.10	-13.00	-53.10	Horizontal
2	329.462	-88.56	26.78	-61.78	-13.00	-48.78	Horizontal
3	972.283	-85.74	40.23	-45.51	-13.00	-32.51	Horizontal
4	32.640	-90.30	25.84	-64.46	-13.00	-51.46	Vertical
5	106.281	-87.01	20.19	-66.82	-13.00	-53.82	Vertical
6	821.387	-86.97	36.27	-50.70	-13.00	-37.70	Vertical
Highest Channel							
1	42.931	-85.27	20.93	-64.34	-13.00	-51.34	Horizontal
2	403.934	-86.53	29.79	-56.74	-13.00	-43.74	Horizontal
3	952.000	-86.49	40.17	-46.32	-13.00	-33.32	Horizontal
4	34.770	-89.93	24.45	-65.48	-13.00	-52.48	Vertical
5	266.839	-87.32	24.96	-62.36	-13.00	-49.36	Vertical
6	958.714	-87.41	38.90	-48.51	-13.00	-35.51	Vertical

LTE Band 2_ 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	3720.000	-63.09	13.80	-49.29	-13.00	-36.29	Horizontal
2	5580.000	-65.12	15.98	-49.14	-13.00	-36.14	Horizontal
3	3720.000	-67.17	15.18	-51.99	-13.00	-38.99	Vertical
4	5580.000	-64.68	16.87	-47.81	-13.00	-34.81	Vertical
Middle Channel							
1	5640.000	-61.96	16.10	-45.86	-13.00	-32.86	Horizontal
2	7520.000	-63.23	19.09	-44.14	-13.00	-31.14	Horizontal
3	5640.000	-59.45	16.97	-42.48	-13.00	-29.48	Vertical
4	7520.000	-60.77	18.48	-42.29	-13.00	-29.29	Vertical
Highest Channel							
1	3800.000	-66.14	13.95	-52.19	-13.00	-39.19	Horizontal
2	5700.000	-62.78	16.28	-46.50	-13.00	-33.50	Horizontal
3	3800.000	-67.55	15.39	-52.16	-13.00	-39.16	Vertical
4	5700.000	-62.02	17.14	-44.88	-13.00	-31.88	Vertical

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5.8.2 LTE Band 4

LTE Band 4_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	31.959	-90.13	26.23	-63.90	-13.00	-50.90	Horizontal
2	149.968	-87.73	21.09	-66.64	-13.00	-53.64	Horizontal
3	972.283	-86.67	40.23	-46.44	-13.00	-33.44	Horizontal
4	30.639	-90.56	27.14	-63.42	-13.00	-50.42	Vertical
5	200.043	-88.73	22.20	-66.53	-13.00	-53.53	Vertical
6	925.613	-86.56	38.11	-48.45	-13.00	-35.45	Vertical
Middle Channel							
1	31.959	-91.22	26.23	-64.99	-13.00	-51.99	Horizontal
2	89.787	-85.76	19.17	-66.59	-13.00	-53.59	Horizontal
3	958.714	-87.26	40.19	-47.07	-13.00	-34.07	Horizontal
4	32.640	-90.44	25.84	-64.60	-13.00	-51.60	Vertical
5	214.606	-88.00	22.80	-65.20	-13.00	-52.20	Vertical
6	958.714	-87.15	38.90	-48.25	-13.00	-35.25	Vertical
Highest Channel							
1	32.184	-90.50	26.12	-64.38	-13.00	-51.38	Horizontal
2	158.640	-88.01	21.91	-66.10	-13.00	-53.10	Horizontal
3	932.141	-86.67	39.11	-47.56	-13.00	-34.56	Horizontal
4	36.781	-89.11	23.15	-65.96	-13.00	-52.96	Vertical
5	327.155	-87.73	26.30	-61.43	-13.00	-48.43	Vertical
6	844.803	-86.47	36.15	-50.32	-13.00	-37.32	Vertical

LTE Band 4_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	3440.000	-69.35	12.56	-56.79	-13.00	-43.79	Horizontal
2	5160.000	-64.11	16.14	-47.97	-13.00	-34.97	Horizontal
3	3440.000	-67.64	13.80	-53.84	-13.00	-40.84	Vertical
4	5160.000	-63.42	17.11	-46.31	-13.00	-33.31	Vertical
Middle Channel							
1	3465.000	-72.75	12.74	-60.01	-13.00	-47.01	Horizontal
2	5197.500	-69.31	16.21	-53.10	-13.00	-40.10	Horizontal
3	3465.000	-72.63	13.97	-58.66	-13.00	-45.66	Vertical
4	5197.500	-69.90	17.17	-52.73	-13.00	-39.73	Vertical
Highest Channel							
1	3490.000	-72.08	12.93	-59.15	-13.00	-46.15	Horizontal
2	5235.000	-67.85	16.20	-51.65	-13.00	-38.65	Horizontal
3	3490.000	-72.08	14.14	-57.94	-13.00	-44.94	Vertical
4	5235.000	-69.40	17.16	-52.24	-13.00	-39.24	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	35.016	-67.59	7.25	-60.34	-13.00	-47.34	Horizontal
2	104.798	-65.62	3.09	-62.53	-13.00	-49.53	Horizontal
3	754.963	-68.63	17.90	-50.73	-13.00	-37.73	Horizontal
4	30.639	-64.03	9.69	-54.34	-13.00	-41.34	Vertical
5	104.798	-62.57	3.09	-59.48	-13.00	-46.48	Vertical
6	723.793	-65.12	16.89	-48.23	-13.00	-35.23	Vertical
Middle Channel							
1	35.511	-65.14	6.99	-58.15	-13.00	-45.15	Horizontal
2	210.129	-64.95	5.88	-59.07	-13.00	-46.07	Horizontal
3	776.485	-65.48	18.36	-47.12	-13.00	-34.12	Horizontal
4	30.639	-65.23	9.69	-55.54	-13.00	-42.54	Vertical
5	106.281	-65.60	3.07	-62.53	-13.00	-49.53	Vertical
6	734.037	-66.57	16.67	-49.90	-13.00	-36.90	Vertical
Highest Channel							
1	31.292	-65.81	9.15	-56.66	-13.00	-43.66	Horizontal
2	106.281	-63.98	3.07	-60.91	-13.00	-47.91	Horizontal
3	655.977	-64.27	16.96	-47.31	-13.00	-34.31	Horizontal
4	30.855	-64.90	9.56	-55.34	-13.00	-42.34	Vertical
5	106.281	-63.83	3.07	-60.76	-13.00	-47.76	Vertical
6	713.692	-65.08	17.01	-48.07	-13.00	-35.07	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	-50.26	2.47	-47.79	-13.00	-34.79	Horizontal
2	3316.000	-56.53	11.97	-44.56	-13.00	-31.56	Horizontal
3	1658.000	-55.50	4.14	-51.36	-13.00	-38.36	Vertical
4	3316.000	-60.45	13.28	-47.17	-13.00	-34.17	Vertical
Middle Channel							
1	3346.000	-62.84	12.08	-50.76	-13.00	-37.76	Horizontal
2	4182.500	-63.98	14.67	-49.31	-13.00	-36.31	Horizontal
3	3346.000	-61.04	13.37	-47.67	-13.00	-34.67	Vertical
4	4182.500	-66.46	16.05	-50.41	-13.00	-37.41	Vertical
Highest Channel							
1	1688.000	-56.15	2.71	-53.44	-13.00	-40.44	Horizontal
2	3376.000	-58.78	12.19	-46.59	-13.00	-33.59	Horizontal
3	1688.000	-68.04	4.49	-63.55	-13.00	-50.55	Vertical
4	3376.000	-60.03	13.46	-46.57	-13.00	-33.57	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	32.184	-87.77	26.12	-61.65	-25.00	-36.65	Horizontal
2	159.759	-87.78	22.01	-65.77	-25.00	-40.77	Horizontal
3	809.924	-86.32	36.53	-49.79	-25.00	-24.79	Horizontal
4	30.855	-90.84	27.00	-63.84	-25.00	-38.84	Vertical
5	222.281	-88.48	23.13	-65.35	-25.00	-40.35	Vertical
6	919.132	-86.02	37.89	-48.13	-25.00	-23.13	Vertical
Middle Channel							
1	32.411	-88.85	26.00	-62.85	-25.00	-37.85	Horizontal
2	334.126	-87.63	27.03	-60.60	-25.00	-35.60	Horizontal
3	952.000	-86.51	40.17	-46.34	-25.00	-21.34	Horizontal
4	30.855	-91.42	27.00	-64.42	-25.00	-39.42	Vertical
5	146.839	-87.94	20.80	-67.14	-25.00	-42.14	Vertical
6	965.474	-86.91	39.08	-47.83	-25.00	-22.83	Vertical
Highest Channel							
1	32.184	-90.68	26.12	-64.56	-25.00	-39.56	Horizontal
2	254.031	-88.37	24.67	-63.70	-25.00	-38.70	Horizontal
3	979.139	-87.25	40.35	-46.90	-25.00	-21.90	Horizontal
4	32.184	-90.82	26.14	-64.68	-25.00	-39.68	Vertical
5	294.426	-87.83	25.55	-62.28	-25.00	-37.28	Vertical
6	979.139	-86.87	39.47	-47.40	-25.00	-22.40	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	7530.000	-58.81	19.08	-39.73	-25.00	-14.73	Horizontal
2	12550.000	-59.84	22.98	-36.86	-25.00	-11.86	Horizontal
3	7530.000	-57.69	18.48	-39.21	-25.00	-14.21	Vertical
4	12550.000	-52.93	22.81	-30.12	-25.00	-5.12	Vertical
Middle Channel							
1	7605.000	-58.52	19.09	-39.43	-25.00	-14.43	Horizontal
2	12675.000	-56.11	23.35	-32.76	-25.00	-7.76	Horizontal
3	7605.000	-54.60	18.47	-36.13	-25.00	-11.13	Vertical
4	12675.000	-53.73	23.01	-30.72	-25.00	-5.72	Vertical
Highest Channel							
1	5120.000	-61.34	16.07	-45.27	-25.00	-20.27	Horizontal
2	12800.000	-57.85	23.77	-34.08	-25.00	-9.08	Horizontal
3	5120.000	-61.57	17.05	-44.52	-25.00	-19.52	Vertical
4	12800.000	-53.04	23.25	-29.79	-25.00	-4.79	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	34.285	-89.77	25.03	-64.74	-25.00	-39.74	Horizontal
2	266.839	-87.61	24.96	-62.65	-25.00	-37.65	Horizontal
3	958.714	-86.31	40.19	-46.12	-25.00	-21.12	Horizontal
4	31.292	-90.70	26.72	-63.98	-25.00	-38.98	Vertical
5	106.281	-87.92	20.19	-67.73	-25.00	-42.73	Vertical
6	932.141	-86.79	38.25	-48.54	-25.00	-23.54	Vertical
Middle Channel							
1	31.735	-90.21	26.35	-63.86	-25.00	-38.86	Horizontal
2	106.281	-87.10	20.19	-66.91	-25.00	-41.91	Horizontal
3	979.139	-87.02	40.35	-46.67	-25.00	-21.67	Horizontal
4	30.855	-89.28	27.00	-62.28	-25.00	-37.28	Vertical
5	320.331	-87.87	26.07	-61.80	-25.00	-36.80	Vertical
6	979.139	-86.86	39.47	-47.39	-25.00	-22.39	Vertical
Highest Channel							
1	36.268	-88.74	24.00	-64.74	-25.00	-39.74	Horizontal
2	336.482	-88.20	27.14	-61.06	-25.00	-36.06	Horizontal
3	945.334	-86.53	39.89	-46.64	-25.00	-21.64	Horizontal
4	31.735	-90.59	26.43	-64.16	-25.00	-39.16	Vertical
5	231.853	-87.92	23.61	-64.31	-25.00	-39.31	Vertical
6	958.714	-86.56	38.90	-47.66	-25.00	-22.66	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	10320.000	-56.39	22.78	-33.61	-25.00	-8.61	Horizontal
2	12900.000	-54.19	24.12	-30.07	-25.00	-5.07	Horizontal
3	10300.000	-62.42	21.14	-41.28	-25.00	-16.28	Vertical
4	12900.000	-51.72	23.46	-28.26	-25.00	-3.26	Vertical
Middle Channel							
1	10380.000	-62.42	22.94	-39.48	-25.00	-14.48	Horizontal
2	12975.000	-55.17	24.28	-30.89	-25.00	-5.89	Horizontal
3	10380.000	-58.37	21.18	-37.19	-25.00	-12.19	Vertical
4	12975.000	-55.12	23.51	-31.61	-25.00	-6.61	Vertical
Highest Channel							
1	10440.000	-62.52	23.08	-39.44	-25.00	-14.44	Horizontal
2	13050.000	-58.20	24.35	-33.85	-25.00	-8.85	Horizontal
3	10440.000	-59.72	21.20	-38.52	-25.00	-13.52	Vertical
4	13050.000	-52.24	23.49	-28.75	-25.00	-3.75	Vertical

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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 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, 3.5 Vdc, Normal, 3.8 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	34	0.0181	N/A	Pass
		VN		23	0.0122		Pass
		VH		31	0.0165		Pass
		VN	50	32	0.0170		Pass
			40	39	0.0207		Pass
			30	31	0.0165		Pass
			20	28	0.0149		Pass
			10	34	0.0181		Pass
			0	31	0.0165		Pass
			-10	31	0.0165		Pass
			-20	29	0.0154		Pass
			-30	38	0.0202		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	37	0.0214	N/A	Pass
		VN		28	0.0162		Pass
		VH		31	0.0179		Pass
		VN	50	34	0.0196		Pass
			40	29	0.0167		Pass
			30	41	0.0237		Pass
			20	32	0.0185		Pass
			10	34	0.0196		Pass
			0	31	0.0179		Pass
			-10	33	0.0190		Pass
			-20	36	0.0208		Pass
			-30	38	0.0219		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	35	0.0418	± 2.5	Pass
		VN		26	0.0311	± 2.5	Pass
		VH		27	0.0323	± 2.5	Pass
		VN	50	22	0.0263	± 2.5	Pass
			40	25	0.0299	± 2.5	Pass
			30	25	0.0299	± 2.5	Pass
			20	33	0.0395	± 2.5	Pass
			10	34	0.0406	± 2.5	Pass
			0	31	0.0371	± 2.5	Pass
			-10	25	0.0299	± 2.5	Pass
			-20	24	0.0287	± 2.5	Pass
			-30	32	0.0383	± 2.5	Pass

5.9.4 LTE Band 7

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 7 / 20MHz / Full RB							
QPSK	21100 / 2535	VL	TN	31	0.0122	N/A	Pass
		VN		38	0.0150		Pass
		VH		31	0.0122		Pass
		VN	50	28	0.0110		Pass
			40	39	0.0154		Pass
			30	28	0.0110		Pass
			20	33	0.0130		Pass
			10	32	0.0126		Pass
			0	41	0.0162		Pass
			-10	25	0.0099		Pass
			-20	26	0.0103		Pass
			-30	29	0.0114		Pass

5.9.5 LTE Band 38

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
LTE Band 38 / 20MHz / Full RB							
QPSK	38000 /2595	VL	TN	28	0.0108	N/A	Pass
		VN		38	0.0146		Pass
		VH		27	0.0104		Pass
		VN	50	28	0.0108		Pass
			40	29	0.0112		Pass
			30	28	0.0108		Pass
			20	23	0.0089		Pass
			10	32	0.0123		Pass
			0	21	0.0081		Pass
			-10	25	0.0096		Pass
			-20	29	0.0112		Pass
			-30	29	0.0112		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 ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
