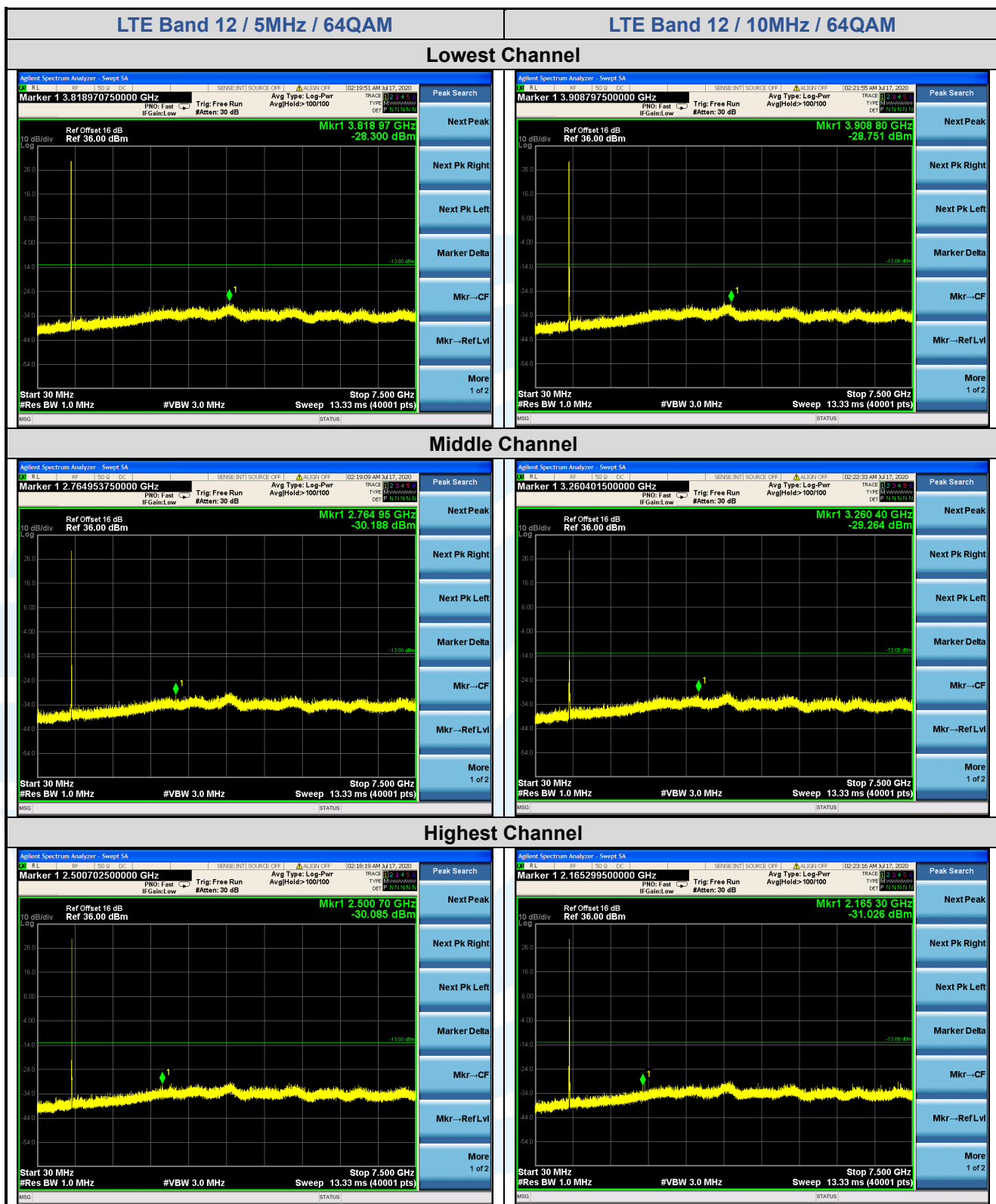
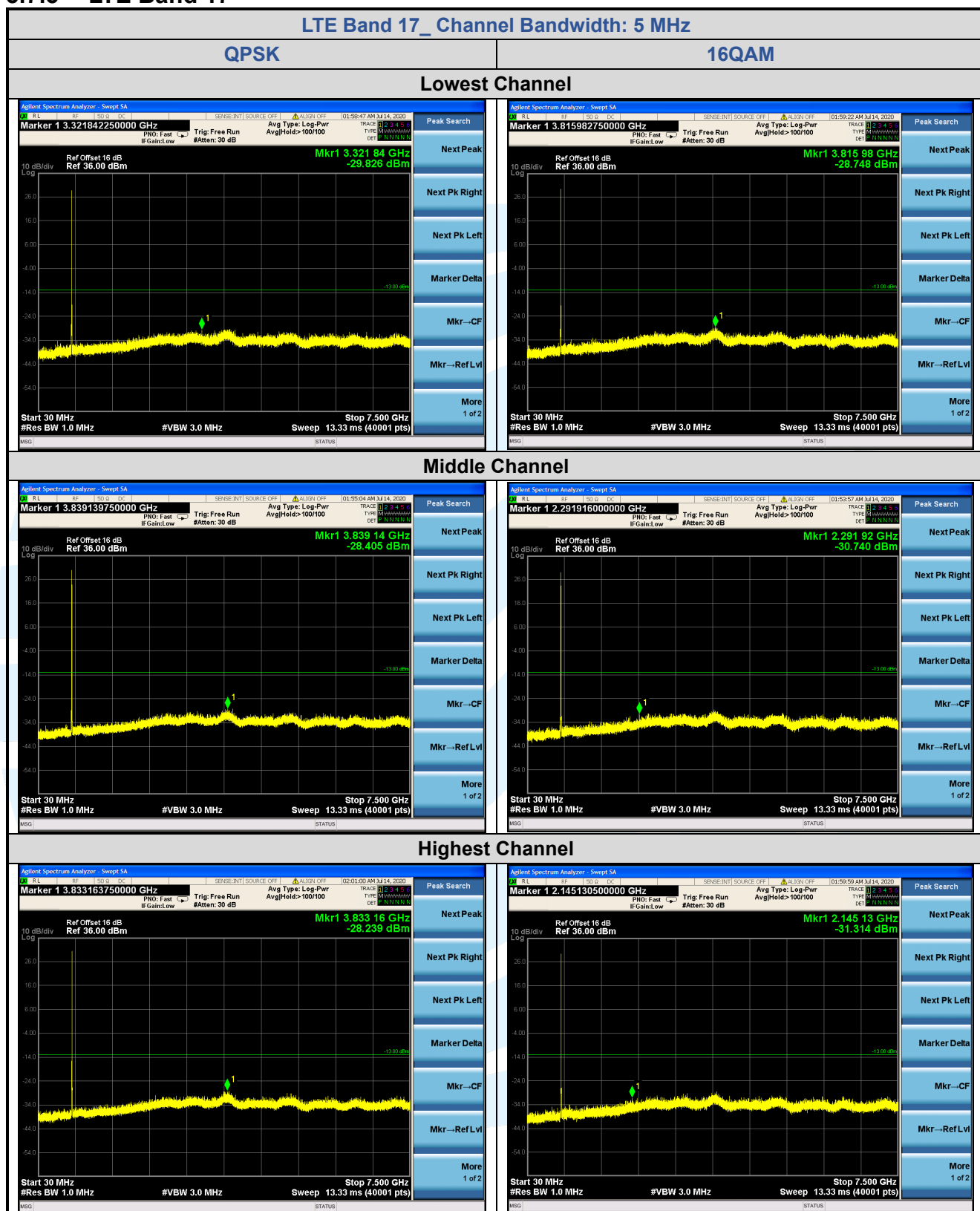
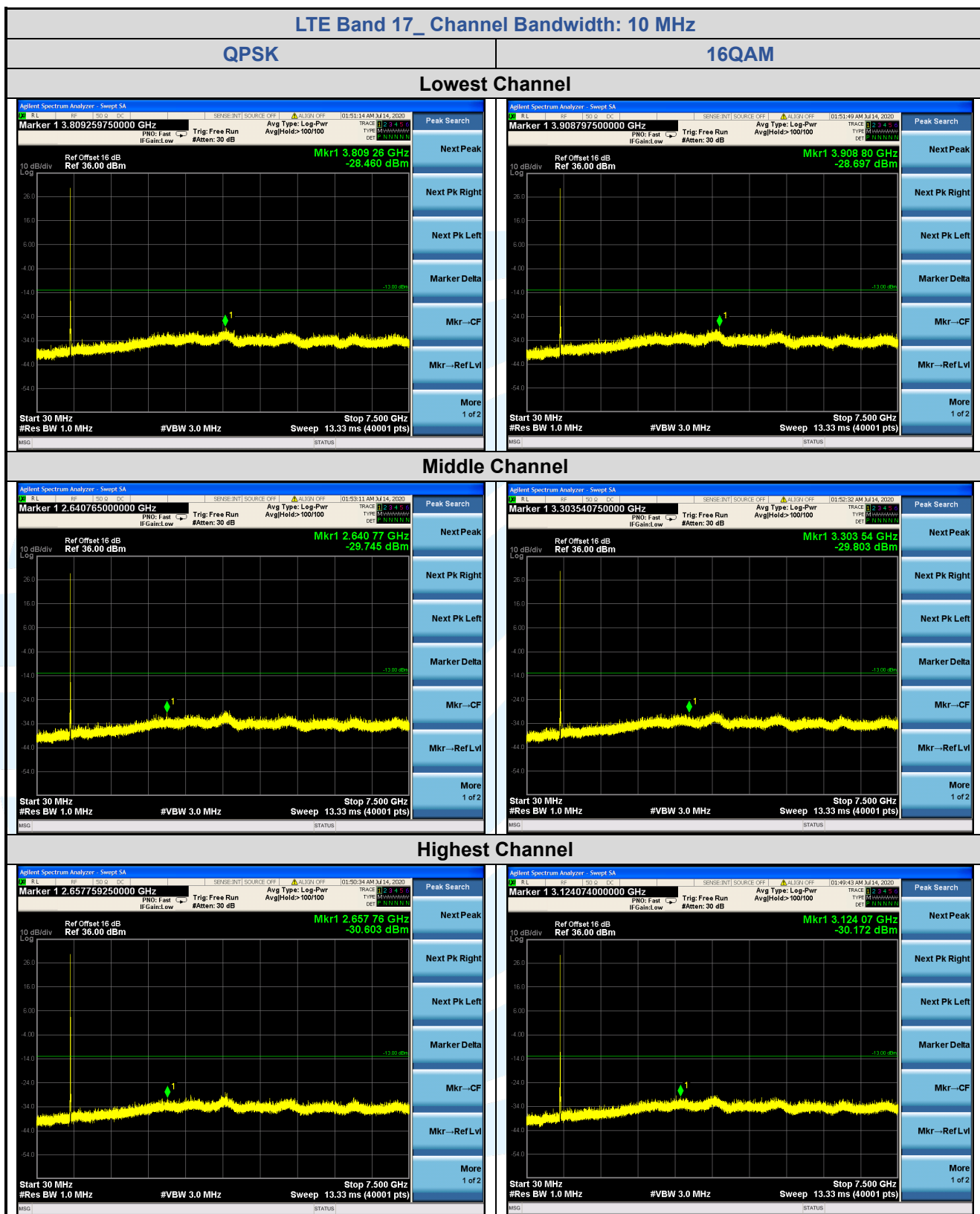


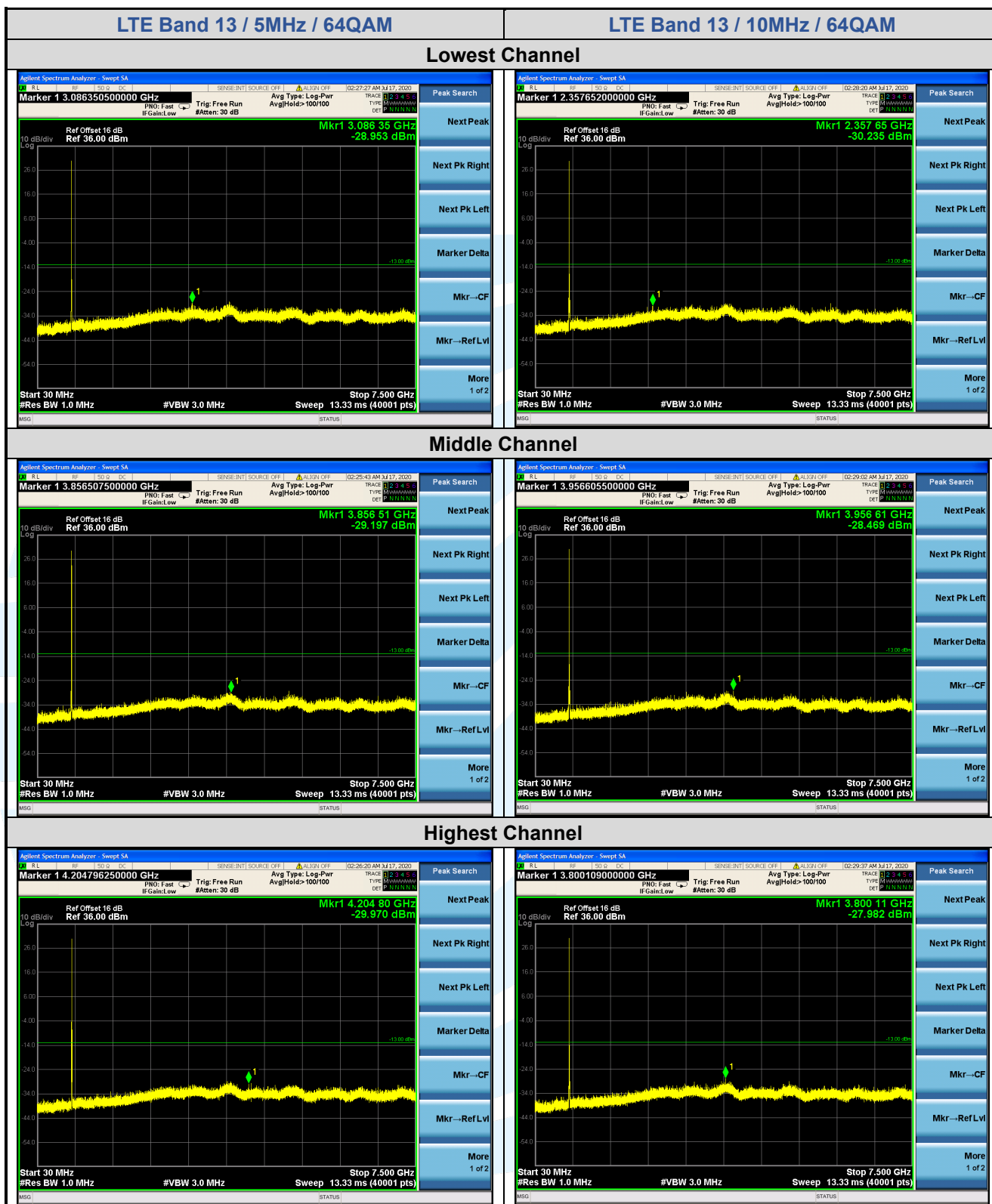




5.7.5 LTE Band 17







Remark:

1) All the above radiation data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.

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 12 & Band 17: FCC 47 CFR Part 27.53(g)

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):

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.

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_ Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	64.532	-64.48	-6.14	-70.62	-13.00	-57.62	Horizontal
2	95.649	-68.07	-3.79	-71.86	-13.00	-58.86	Horizontal
3	168.997	-71.11	-1.09	-72.20	-13.00	-59.20	Horizontal
4	62.743	-54.41	-6.08	-60.49	-13.00	-47.49	Vertical
5	94.979	-59.84	-3.58	-63.42	-13.00	-50.42	Vertical
6	250.486	-74.20	2.33	-71.87	-13.00	-58.87	Vertical
Middle Channel							
1	64.532	-57.71	-6.14	-63.85	-13.00	-50.85	Horizontal
2	92.346	-67.03	-4.00	-71.03	-13.00	-58.03	Horizontal
3	173.815	-67.67	-1.00	-68.67	-13.00	-55.67	Horizontal
4	46.381	-65.95	-3.97	-69.92	-13.00	-56.92	Vertical
5	64.987	-52.33	-5.89	-58.22	-13.00	-45.22	Vertical
6	96.323	-59.77	-3.40	-63.17	-13.00	-50.17	Vertical
Highest Channel							
1	64.080	-60.48	-6.15	-66.63	-13.00	-53.63	Horizontal
2	94.979	-65.07	-3.83	-68.90	-13.00	-55.90	Horizontal
3	173.815	-66.04	-1.00	-67.04	-13.00	-54.04	Horizontal
4	63.186	-49.78	-6.05	-55.83	-13.00	-42.83	Vertical
5	67.311	-52.35	-5.70	-58.05	-13.00	-45.05	Vertical
6	94.979	-58.35	-3.58	-61.93	-13.00	-48.93	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	-71.54	14.94	-56.60	-13.00	-43.60	Horizontal
2	5580.000	-69.60	16.38	-53.22	-13.00	-40.22	Horizontal
3	3720.000	-70.37	14.93	-55.44	-13.00	-42.44	Vertical
4	5580.000	-67.86	16.86	-51.00	-13.00	-38.00	Vertical
Middle Channel							
1	3760.000	-64.35	15.03	-49.32	-13.00	-36.32	Horizontal
2	5640.000	-60.79	16.56	-44.23	-13.00	-31.23	Horizontal
3	3760.000	-63.50	15.03	-48.47	-13.00	-35.47	Vertical
4	5640.000	-57.75	17.04	-40.71	-13.00	-27.71	Vertical
Highest Channel							
1	5700.000	-59.56	16.82	-42.74	-13.00	-29.74	Horizontal
2	9500.000	-63.07	19.73	-43.34	-13.00	-30.34	Horizontal
3	5700.000	-58.47	17.28	-41.19	-13.00	-28.19	Vertical
4	9500.000	-57.70	20.23	-37.47	-13.00	-24.47	Vertical

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5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK_ Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	55.288	-65.15	-6.02	-71.17	-13.00	-58.17	Horizontal
2	62.304	-62.82	-6.19	-69.01	-13.00	-56.01	Horizontal
3	94.979	-67.79	-3.83	-71.62	-13.00	-58.62	Horizontal
4	50.461	-67.76	-4.88	-72.64	-13.00	-59.64	Vertical
5	63.186	-53.94	-6.05	-59.99	-13.00	-46.99	Vertical
6	94.979	-60.33	-3.58	-63.91	-13.00	-50.91	Vertical
Middle Channel							
1	65.907	-64.90	-6.12	-71.02	-13.00	-58.02	Horizontal
2	97.002	-68.54	-3.69	-72.23	-13.00	-59.23	Horizontal
3	217.644	-74.35	0.97	-73.38	-13.00	-60.38	Horizontal
4	63.186	-50.88	-6.05	-56.93	-13.00	-43.93	Vertical
5	95.649	-59.13	-3.49	-62.62	-13.00	-49.62	Vertical
6	945.334	-81.91	16.42	-65.49	-13.00	-52.49	Vertical
Highest Channel							
1	64.532	-64.00	-6.14	-70.14	-13.00	-57.14	Horizontal
2	94.314	-64.92	-3.87	-68.79	-13.00	-55.79	Horizontal
3	168.997	-71.09	-1.09	-72.18	-13.00	-59.18	Horizontal
4	64.532	-54.01	-5.93	-59.94	-13.00	-46.94	Vertical
5	94.314	-59.56	-3.67	-63.23	-13.00	-50.23	Vertical
6	765.648	-80.26	12.45	-67.81	-13.00	-54.81	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	-54.60	13.72	-40.88	-13.00	-27.88	Horizontal
2	5160.000	-53.81	15.90	-37.91	-13.00	-24.91	Horizontal
3	3440.000	-56.68	13.53	-43.15	-13.00	-30.15	Vertical
4	5160.000	-55.03	16.26	-38.77	-13.00	-25.77	Vertical
Middle Channel							
1	3465.000	-52.36	13.88	-38.48	-13.00	-25.48	Horizontal
2	5197.500	-58.20	16.03	-42.17	-13.00	-29.17	Horizontal
3	3465.000	-55.52	13.73	-41.79	-13.00	-28.79	Vertical
4	5197.500	-58.81	16.41	-42.40	-13.00	-29.40	Vertical
Highest Channel							
1	3490.000	-54.62	14.04	-40.58	-13.00	-27.58	Horizontal
2	5235.000	-49.55	16.08	-33.47	-13.00	-20.47	Horizontal
3	3490.000	-56.35	13.92	-42.43	-13.00	-29.43	Vertical
4	5235.000	-52.79	16.47	-36.32	-13.00	-23.32	Vertical

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5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK_ Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	97.002	-84.00	25.12	-58.88	-13.00	-45.88	Horizontal
2	427.292	-88.84	35.34	-53.50	-13.00	-40.50	Horizontal
3	698.804	-89.03	41.70	-47.33	-13.00	-34.33	Horizontal
4	97.002	-84.25	25.51	-58.74	-13.00	-45.74	Vertical
5	412.539	-89.42	35.28	-54.14	-13.00	-41.14	Vertical
6	728.897	-88.66	42.09	-46.57	-13.00	-33.57	Vertical
Middle Channel							
1	97.002	-83.28	25.12	-58.16	-13.00	-45.16	Horizontal
2	542.610	-88.07	38.80	-49.27	-13.00	-36.27	Horizontal
3	703.731	-88.57	41.73	-46.84	-13.00	-33.84	Horizontal
4	61.868	-78.14	22.74	-55.40	-13.00	-42.40	Vertical
5	97.002	-82.04	25.51	-56.53	-13.00	-43.53	Vertical
6	538.811	-88.04	38.65	-49.39	-13.00	-36.39	Vertical
Highest Channel							
1	97.002	-83.49	25.12	-58.37	-13.00	-45.37	Horizontal
2	535.038	-88.93	38.85	-50.08	-13.00	-37.08	Horizontal
3	708.694	-88.14	41.73	-46.41	-13.00	-33.41	Horizontal
4	64.987	-79.96	23.01	-56.95	-13.00	-43.95	Vertical
5	97.002	-82.30	25.51	-56.79	-13.00	-43.79	Vertical
6	628.894	-88.19	40.32	-47.87	-13.00	-34.87	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	-64.09	4.58	-59.51	-13.00	-46.51	Horizontal
2	2487.000	-73.53	10.87	-62.66	-13.00	-49.66	Horizontal
3	1658.000	-63.37	3.81	-59.56	-13.00	-46.56	Vertical
4	2487.000	-73.20	10.47	-62.73	-13.00	-49.73	Vertical
Middle Channel							
1	1673.000	-62.45	4.68	-57.77	-13.00	-44.77	Horizontal
2	2509.500	-74.02	10.87	-63.15	-13.00	-50.15	Horizontal
3	1674.504	-64.20	3.93	-60.27	-13.00	-47.27	Vertical
4	2509.500	-74.85	10.46	-64.39	-13.00	-51.39	Vertical
Highest Channel							
1	1688.000	-66.49	4.79	-61.70	-13.00	-48.70	Horizontal
2	2532.000	-74.11	10.90	-63.21	-13.00	-50.21	Horizontal
3	1688.000	-66.41	4.04	-62.37	-13.00	-49.37	Vertical
4	2532.000	-74.62	10.48	-64.14	-13.00	-51.14	Vertical

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5.8.4 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK _ Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	97.002	-83.59	25.12	-58.47	-13.00	-45.47	Horizontal
2	201.454	-87.75	28.29	-59.46	-13.00	-46.46	Horizontal
3	546.437	-88.22	38.77	-49.45	-13.00	-36.45	Horizontal
4	97.002	-83.41	25.51	-57.90	-13.00	-44.90	Vertical
5	412.539	-88.66	35.28	-53.38	-13.00	-40.38	Vertical
6	562.014	-88.53	38.85	-49.68	-13.00	-36.68	Vertical
Middle Channel							
1	97.002	-83.95	25.12	-58.83	-13.00	-45.83	Horizontal
2	481.511	-89.06	36.84	-52.22	-13.00	-39.22	Horizontal
3	569.969	-89.09	38.76	-50.33	-13.00	-37.33	Horizontal
4	63.631	-80.36	22.89	-57.47	-13.00	-44.47	Vertical
5	97.002	-82.93	25.51	-57.42	-13.00	-44.42	Vertical
6	546.437	-89.12	38.72	-50.40	-13.00	-37.40	Vertical
Highest Channel							
1	97.002	-83.71	25.12	-58.59	-13.00	-45.59	Horizontal
2	509.356	-89.57	38.16	-51.41	-13.00	-38.41	Horizontal
3	642.292	-89.17	40.38	-48.79	-13.00	-35.79	Horizontal
4	62.743	-81.29	22.82	-58.47	-13.00	-45.47	Vertical
5	505.789	-88.62	37.74	-50.88	-13.00	-37.88	Vertical
6	615.774	-88.89	40.06	-48.83	-13.00	-35.83	Vertical

LTE Band 12_ 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	1408.000	-61.25	3.39	-57.86	-13.00	-44.86	Horizontal
2	2112.000	-74.25	7.64	-66.61	-13.00	-53.61	Horizontal
3	1408.000	-61.12	2.62	-58.50	-13.00	-45.50	Vertical
4	2112.000	-75.25	7.16	-68.09	-13.00	-55.09	Vertical
Middle Channel							
1	1415.000	-61.15	3.40	-57.75	-13.00	-44.75	Horizontal
2	2122.500	-74.28	7.68	-66.60	-13.00	-53.60	Horizontal
3	1415.000	-61.75	2.62	-59.13	-13.00	-46.13	Vertical
4	2122.500	-74.72	7.21	-67.51	-13.00	-54.51	Vertical
Highest Channel							
1	1422.000	-62.37	3.41	-58.96	-13.00	-45.96	Horizontal
2	2133.000	-73.84	7.74	-66.10	-13.00	-53.10	Horizontal
3	1422.000	-60.13	2.62	-57.51	-13.00	-44.51	Vertical
4	2133.000	-74.60	7.26	-67.34	-13.00	-54.34	Vertical

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5.8.5 LTE Band 17

LTE Band 17_ 10 MHz_ QPSK _ Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	97.002	-83.78	25.12	-58.66	-13.00	-45.66	Horizontal
2	546.437	-89.45	38.77	-50.68	-13.00	-37.68	Horizontal
3	637.795	-88.67	40.37	-48.30	-13.00	-35.30	Horizontal
4	62.304	-79.44	22.77	-56.67	-13.00	-43.67	Vertical
5	95.649	-82.61	25.33	-57.28	-13.00	-44.28	Vertical
6	538.811	-88.23	38.65	-49.58	-13.00	-36.58	Vertical
Middle Channel							
1	97.002	-83.62	25.12	-58.50	-13.00	-45.50	Horizontal
2	433.340	-89.25	35.50	-53.75	-13.00	-40.75	Horizontal
3	527.571	-88.75	38.91	-49.84	-13.00	-36.84	Horizontal
4	64.532	-80.24	22.97	-57.27	-13.00	-44.27	Vertical
5	97.002	-82.06	25.51	-56.55	-13.00	-43.55	Vertical
6	505.789	-88.27	37.74	-50.53	-13.00	-37.53	Vertical
Highest Channel							
1	97.002	-84.00	25.12	-58.88	-13.00	-45.88	Horizontal
2	520.208	-88.91	38.69	-50.22	-13.00	-37.22	Horizontal
3	655.977	-87.98	40.59	-47.39	-13.00	-34.39	Horizontal
4	61.434	-80.46	22.70	-57.76	-13.00	-44.76	Vertical
5	97.002	-82.38	25.51	-56.87	-13.00	-43.87	Vertical
6	590.351	-88.26	39.35	-48.91	-13.00	-35.91	Vertical

LTE Band 17_ 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	1418.000	-62.28	3.40	-58.88	-13.00	-45.88	Horizontal
2	2127.000	-74.33	7.70	-66.63	-13.00	-53.63	Horizontal
3	1418.000	-62.95	2.62	-60.33	-13.00	-47.33	Vertical
4	2127.000	-74.84	7.22	-67.62	-13.00	-54.62	Vertical
Middle Channel							
1	1420.000	-62.44	3.40	-59.04	-13.00	-46.04	Horizontal
2	2130.000	-74.24	7.71	-66.53	-13.00	-53.53	Horizontal
3	1420.000	-60.65	2.61	-58.04	-13.00	-45.04	Vertical
4	2130.000	-75.14	7.24	-67.90	-13.00	-54.90	Vertical
Highest Channel							
1	1422.000	-61.84	3.41	-58.43	-13.00	-45.43	Horizontal
2	2133.000	-73.88	7.74	-66.14	-13.00	-53.14	Horizontal
3	1422.000	-59.42	2.62	-56.80	-13.00	-43.80	Vertical
4	2133.000	-75.60	7.26	-68.34	-13.00	-55.34	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
4. All the above radiation data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.
5. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.



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, 7.2 Vdc, Normal, 3.85 Vdc and High voltage, 8.4 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	19	0.0101	N/A	Pass
		VN		27	0.0144		Pass
		VH		23	0.0122		Pass
		VN	50	27	0.0144		Pass
			40	27	0.0144		Pass
			30	24	0.0128		Pass
			20	27	0.0144		Pass
			10	25	0.0133		Pass
			0	27	0.0144		Pass
			-10	24	0.0128		Pass
			-20	21	0.0112		Pass
			-30	24	0.0128		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		33	0.0190		Pass
		VH		24	0.0139		Pass
		VN	50	24	0.0139		Pass
			40	28	0.0162		Pass
			30	27	0.0156		Pass
			20	25	0.0144		Pass
			10	25	0.0144		Pass
			0	27	0.0156		Pass
			-10	29	0.0167		Pass
			-20	31	0.0179		Pass
			-30	28	0.0162		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	18	0.0215	± 2.5	Pass
		VN		25	0.0299	± 2.5	Pass
		VH		22	0.0263	± 2.5	Pass
		VN	50	24	0.0287	± 2.5	Pass
			40	32	0.0383	± 2.5	Pass
			30	21	0.0251	± 2.5	Pass
			20	26	0.0311	± 2.5	Pass
			10	28	0.0335	± 2.5	Pass
			0	19	0.0227	± 2.5	Pass
			-10	23	0.0275	± 2.5	Pass
			-20	21	0.0251	± 2.5	Pass
			-30	25	0.0299	± 2.5	Pass

5.9.4 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	24	0.0339	N/A	Pass
		VN		21	0.0297		Pass
		VH		23	0.0325		Pass
		VN	50	26	0.0367		Pass
			40	24	0.0339		Pass
			30	23	0.0325		Pass
			20	21	0.0297		Pass
			10	20	0.0283		Pass
			0	19	0.0269		Pass
			-10	22	0.0311		Pass
			-20	21	0.0297		Pass
			-30	19	0.0269		Pass

5.9.5 LTE Band 17

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 / 10MHz / Full RB							
QPSK	23790 / 710	VL	TN	21	0.0269	N/A	Pass
		VN		26	0.0332		Pass
		VH		25	0.0320		Pass
		VN	50	21	0.0269		Pass
			40	28	0.0358		Pass
			30	19	0.0243		Pass
			20	27	0.0345		Pass
			10	26	0.0332		Pass
			0	26	0.0332		Pass
			-10	18	0.0230		Pass
			-20	27	0.0345		Pass
			-30	24	0.0307		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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