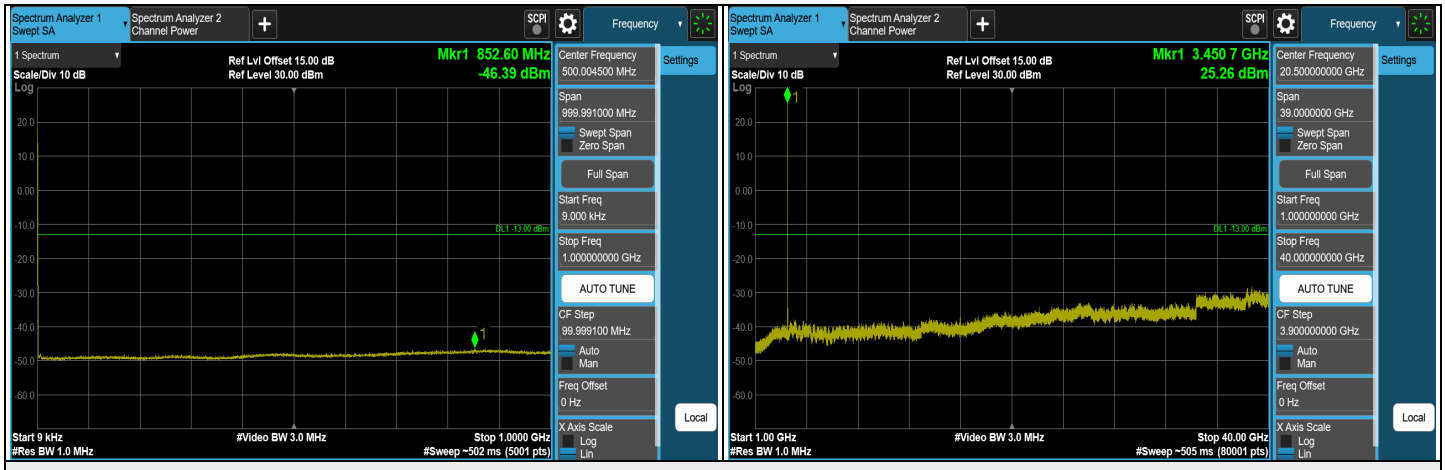
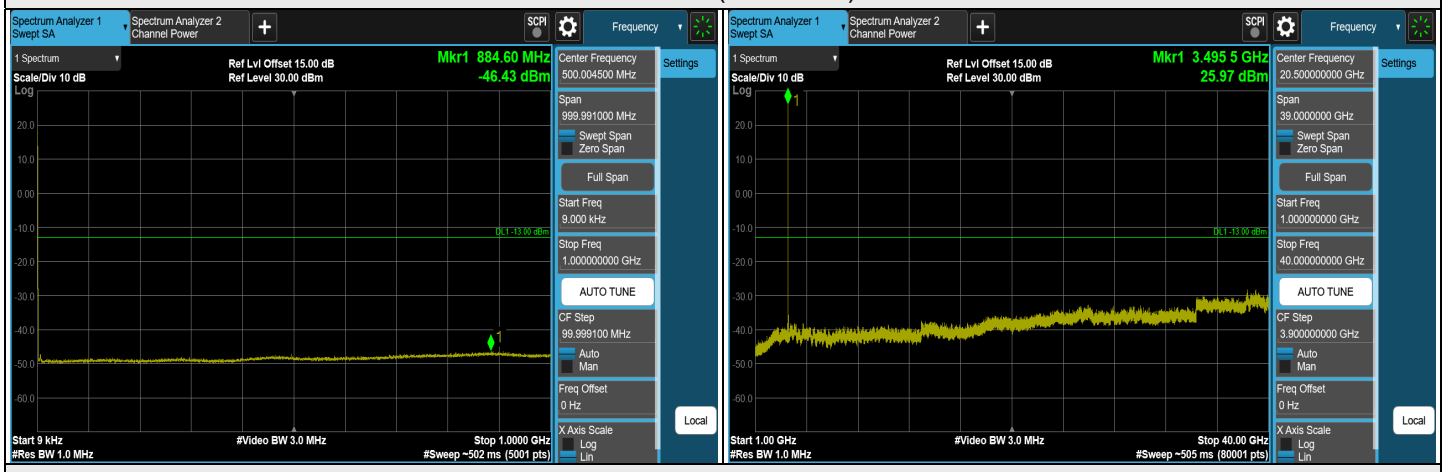
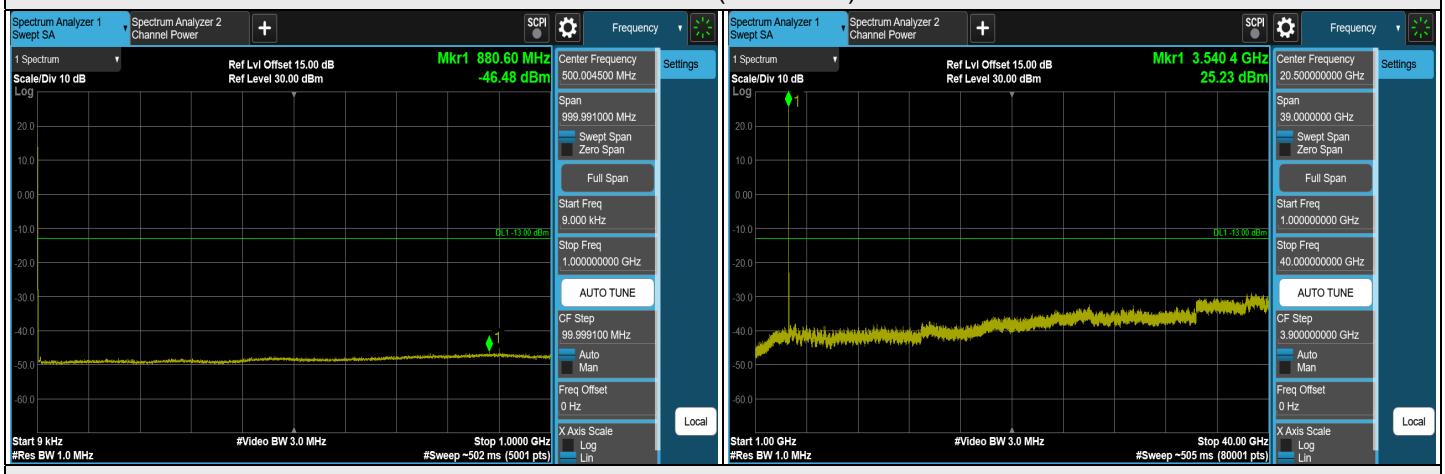
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz



CH 42140 (3455 MHz)



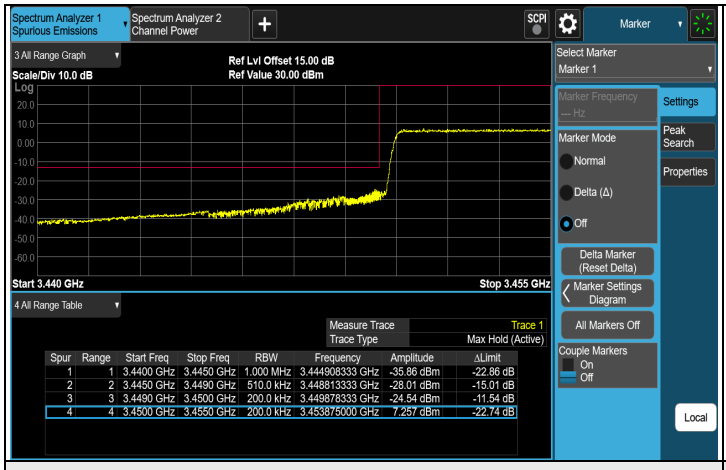
CH 42590 (3500 MHz)



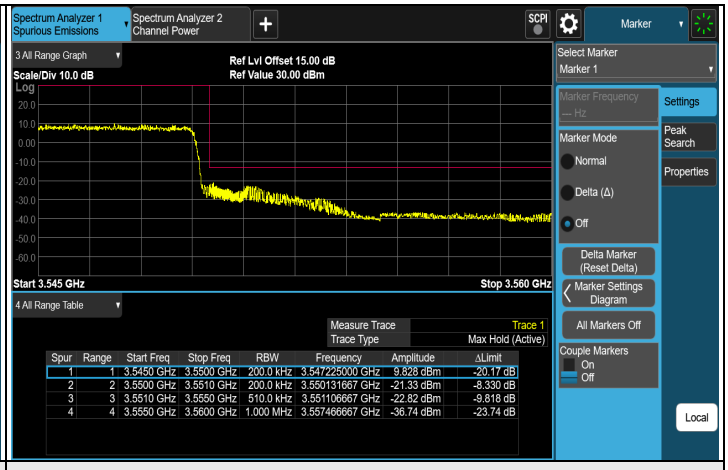
CH 43040 (3545 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

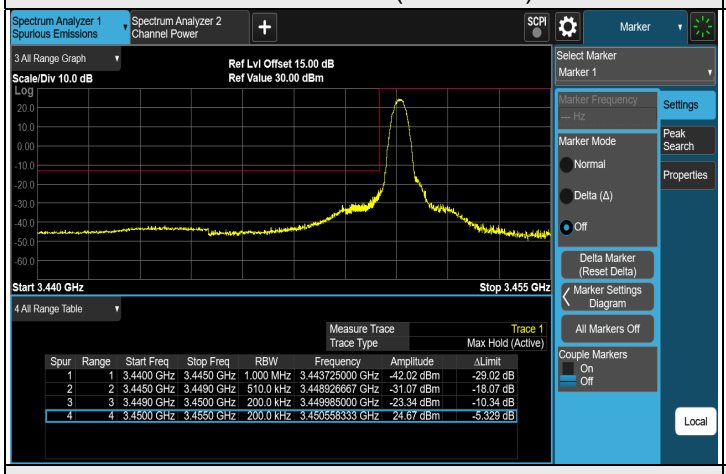
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz



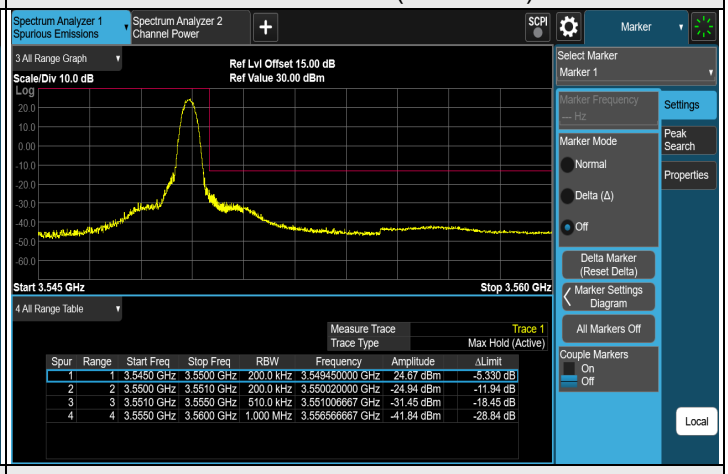
FULL CH 42140 (3455 MHz)



FULL CH 43040 (3545 MHz)

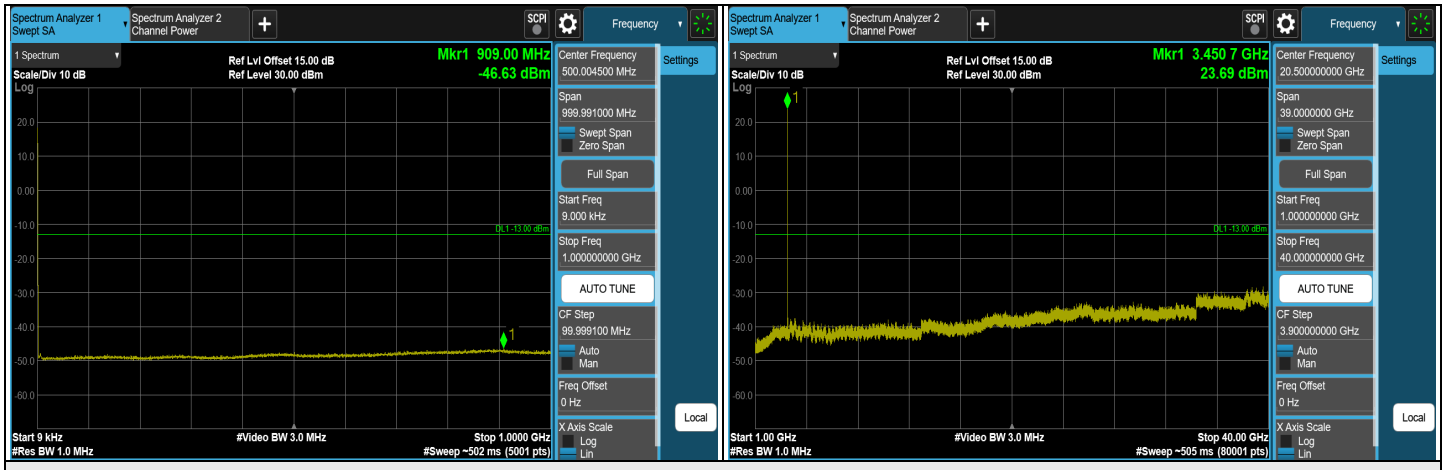


1RB CH 42140 (3455 MHz)

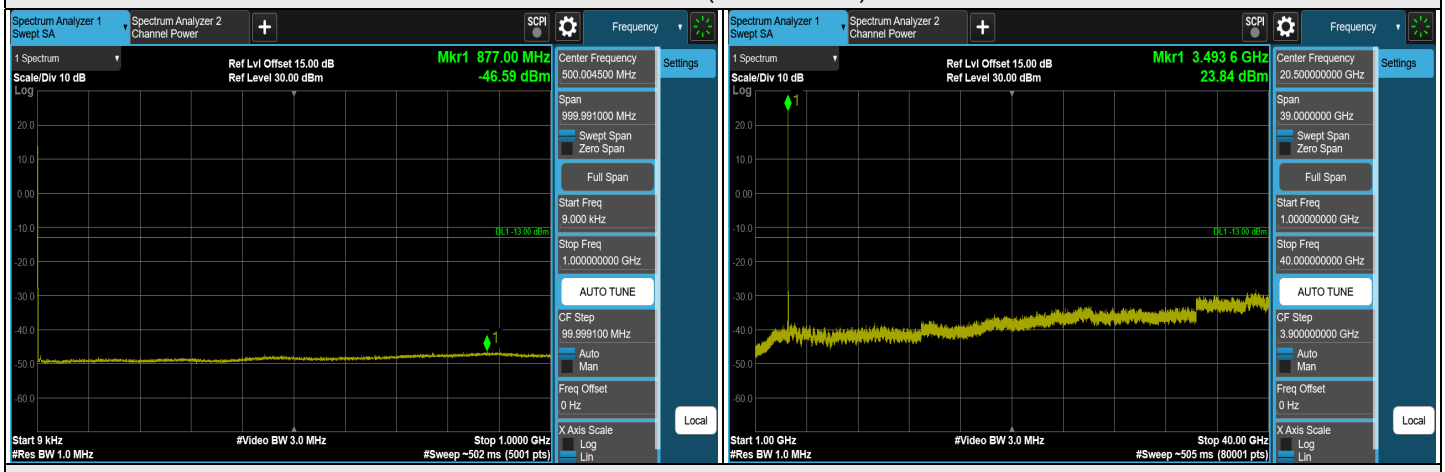


1RB CH 43040 (3545 MHz)

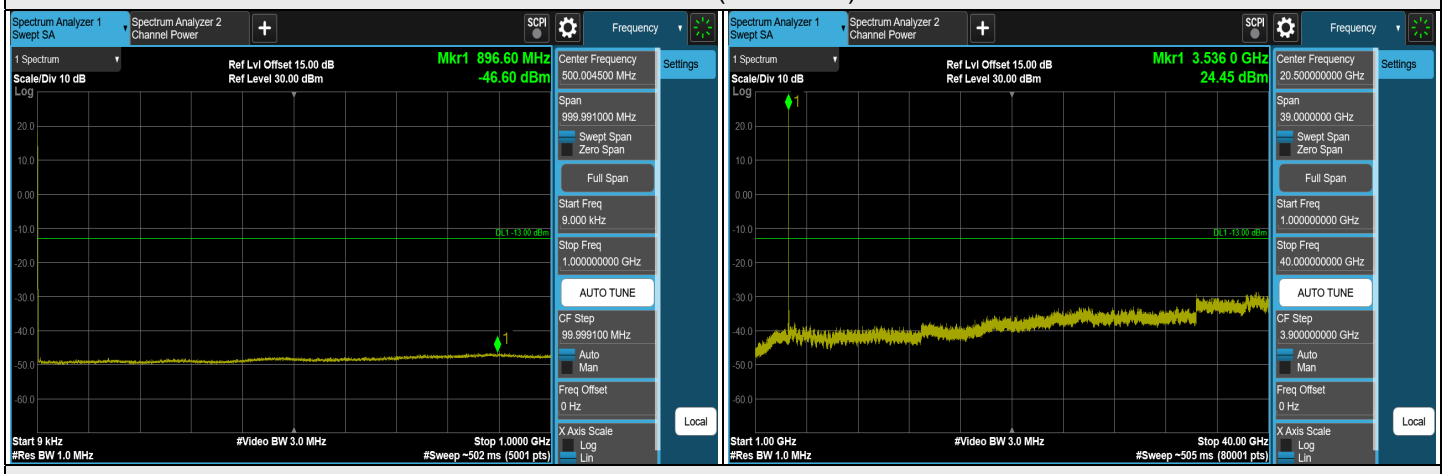
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz



CH 42165 (3457.5 MHz)



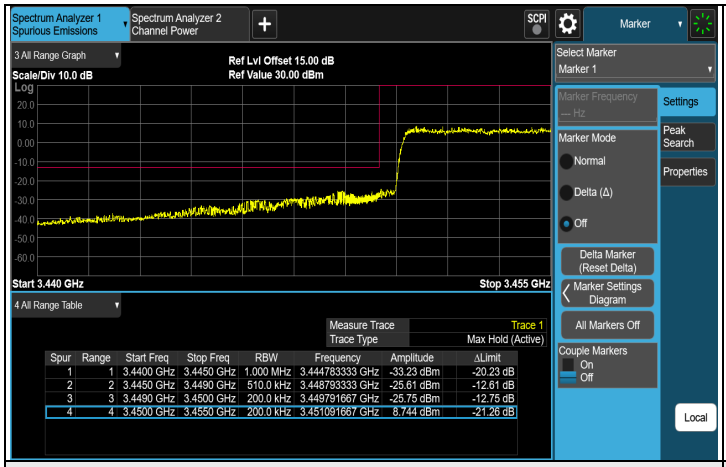
CH 42590 (3500 MHz)



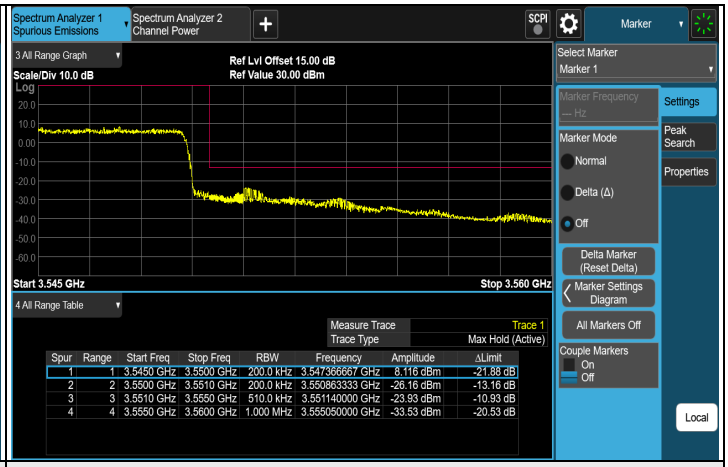
CH 43015 (3542.5 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

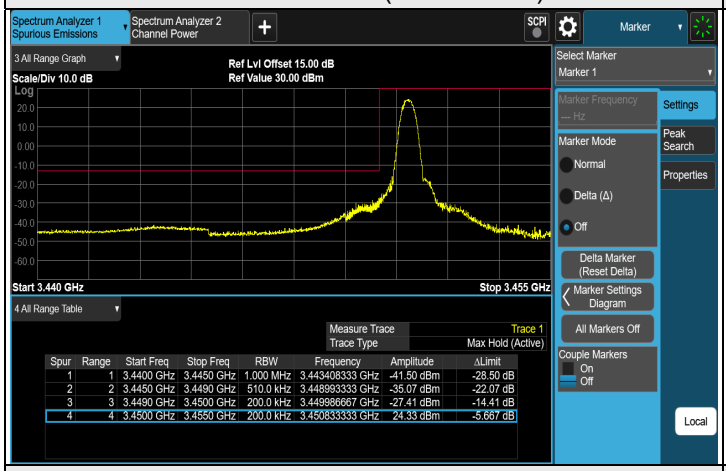
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz



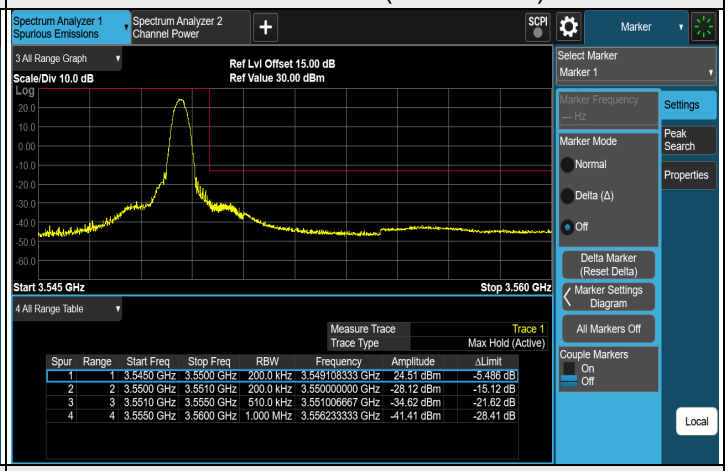
FULL CH 42165 (3457.5 MHz)



FULL CH 43015 (3542.5 MHz)

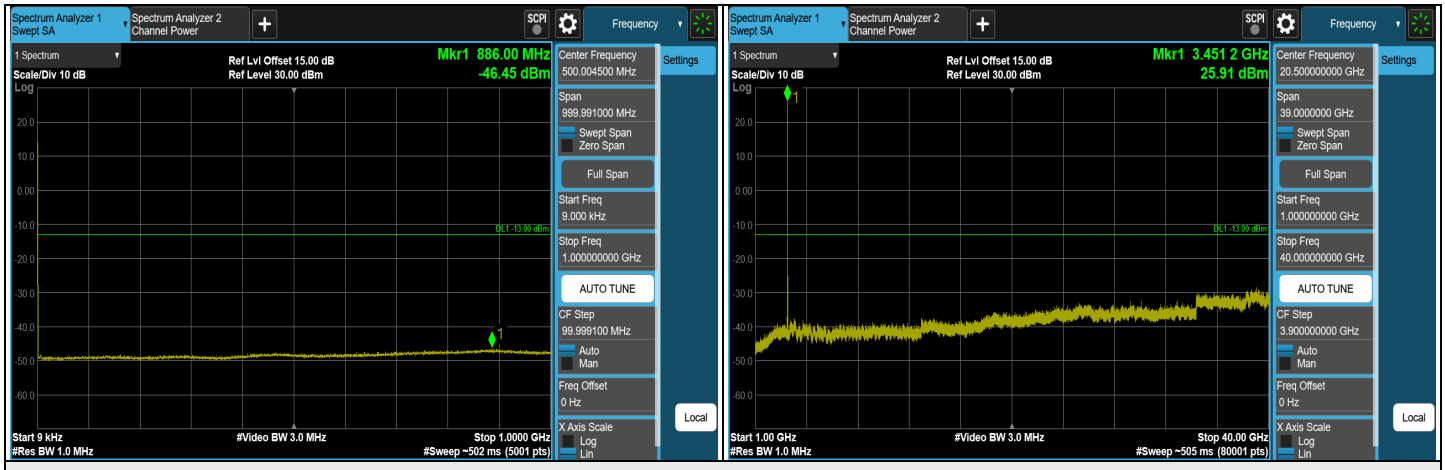


1RB CH 42165 (3457.5 MHz)

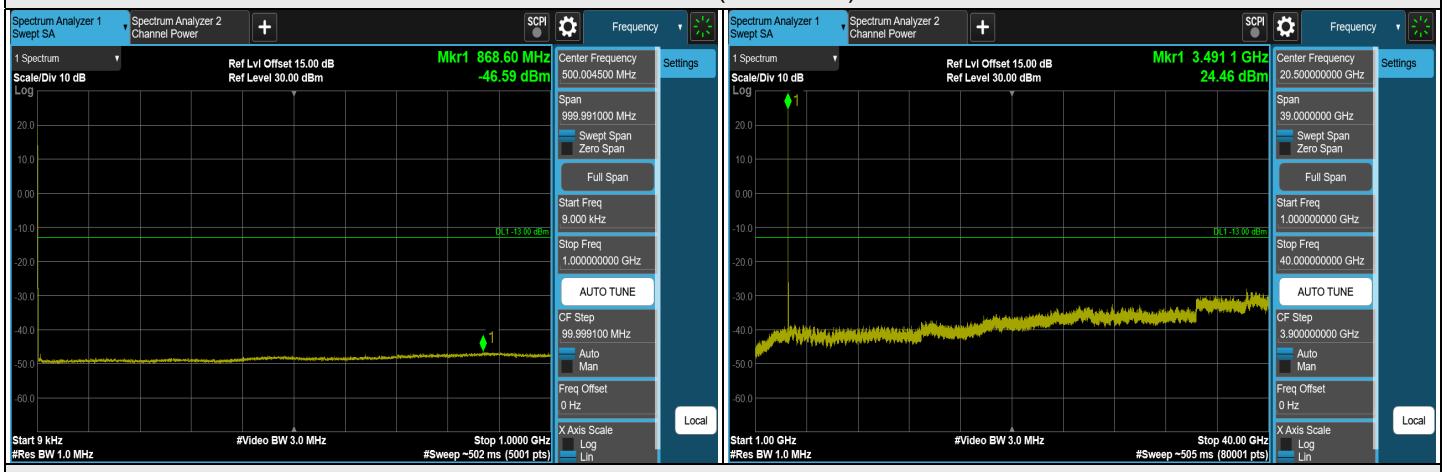


1RB CH 43015 (3542.5 MHz)

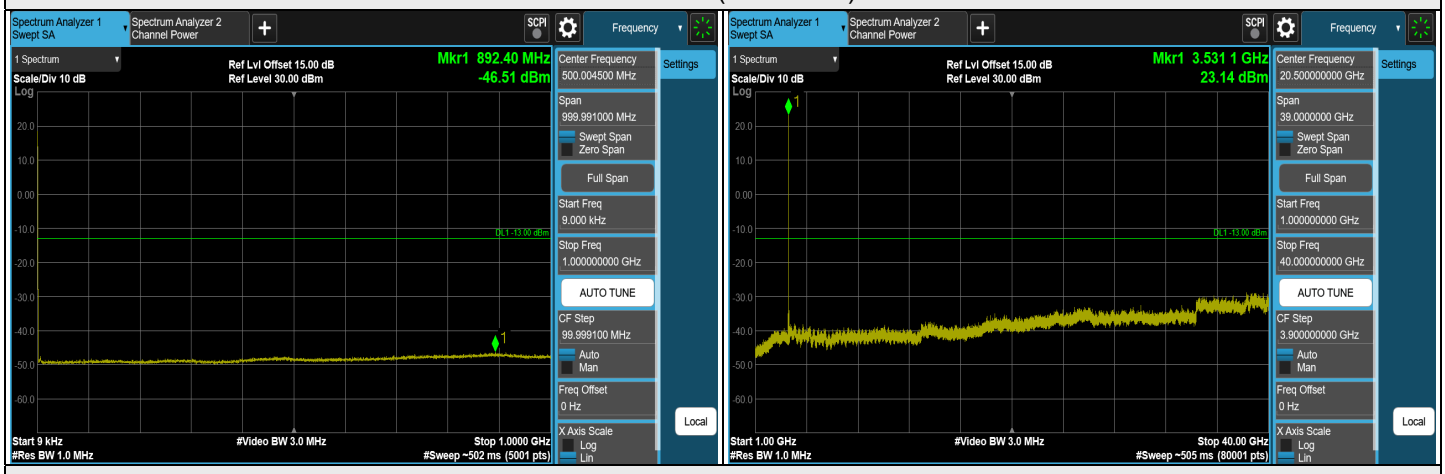
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz



CH 42190 (3460 MHz)



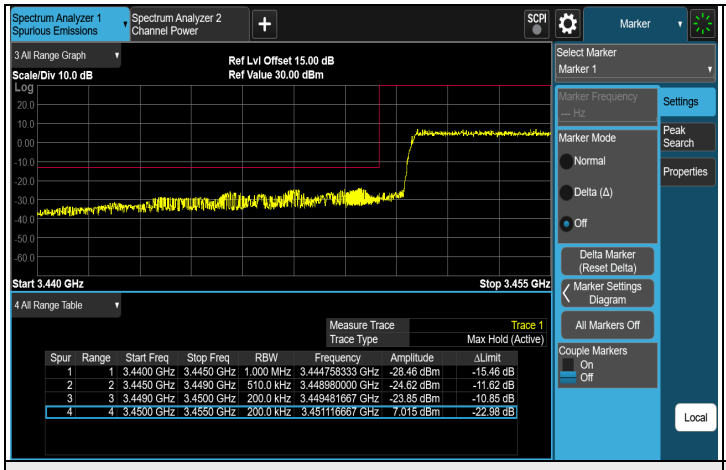
CH 42590 (3500 MHz)



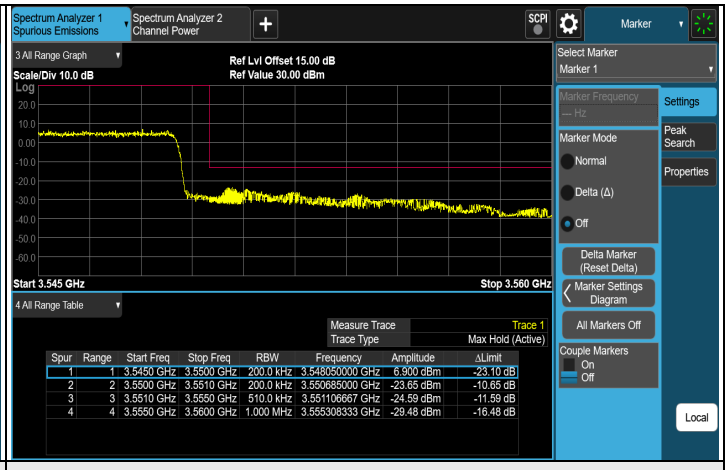
CH 42990 (3540 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

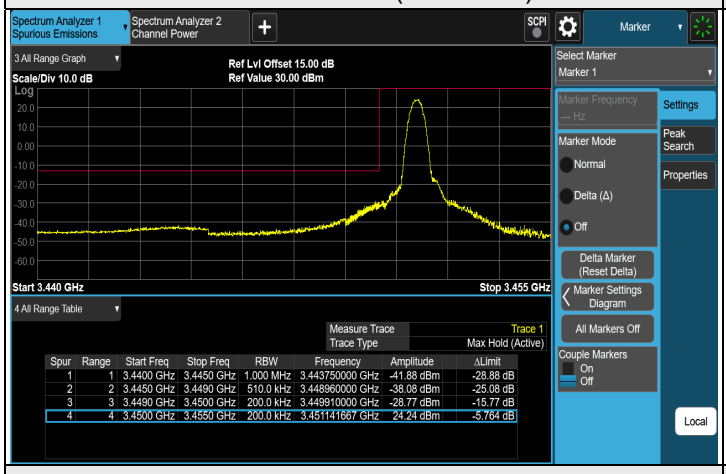
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz



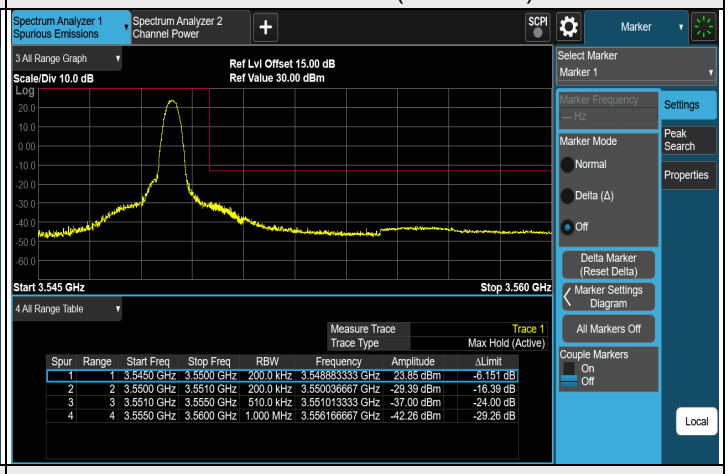
FULL CH 42190 (3460 MHz)



FULL CH 42990 (3540 MHz)



1RB CH 42190 (3460 MHz)



1RB CH 42990 (3540 MHz)

7.6 Radiated Spurious Emissions below 1GHz

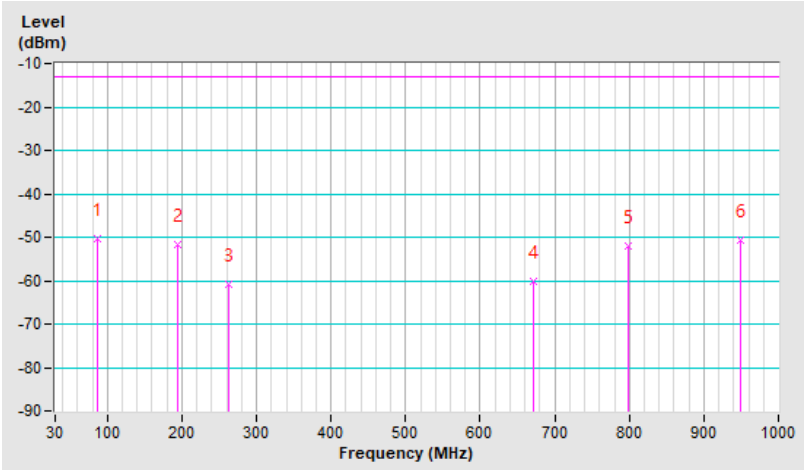
7.6.1 LTE Band 8

RF Mode	LTE Band 8 Channel Bandwidth: 3MHz	**Channel**	CH 21640：899 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	86.26	-50.47	-13.00	-37.47	1.25 H	165	65.81	-116.28
2	193.93	-51.79	-13.00	-38.79	1.25 H	250	61.76	-113.55
3	261.83	-60.82	-13.00	-47.82	1.00 H	230	50.27	-111.09
4	671.17	-60.28	-13.00	-47.28	1.50 H	340	41.46	-101.74
5	799.21	-52.09	-13.00	-39.09	1.25 H	246	47.29	-99.38
6	948.59	-50.84	-13.00	-37.84	1.00 H	179	46.37	-97.21

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

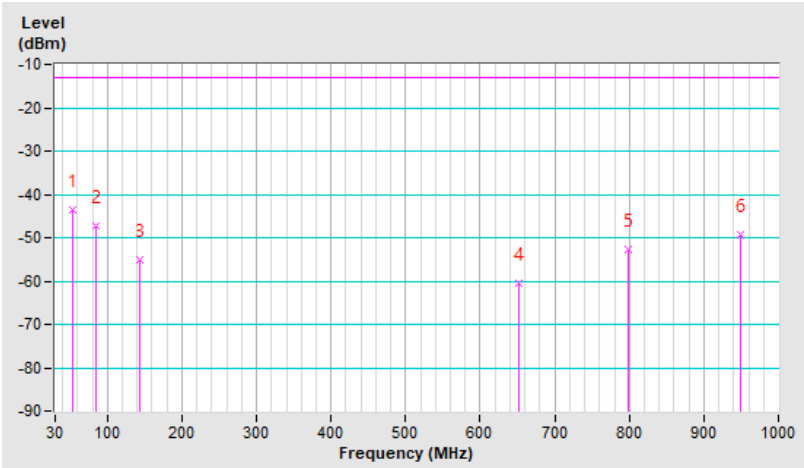


RF Mode	LTE Band 8 Channel Bandwidth: 3MHz	**Channel**	CH 21640：899 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	53.28	-43.39	-13.00	-30.39	1.25 V	64	67.20	-110.59
2	85.29	-47.27	-13.00	-34.27	1.00 V	122	68.90	-116.17
3	142.52	-55.22	-13.00	-42.22	1.50 V	154	55.38	-110.60
4	651.77	-60.36	-13.00	-47.36	1.00 V	291	41.39	-101.75
5	799.21	-52.65	-13.00	-39.65	1.00 V	270	46.73	-99.38
6	949.56	-49.30	-13.00	-36.30	1.25 V	142	47.89	-97.19

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



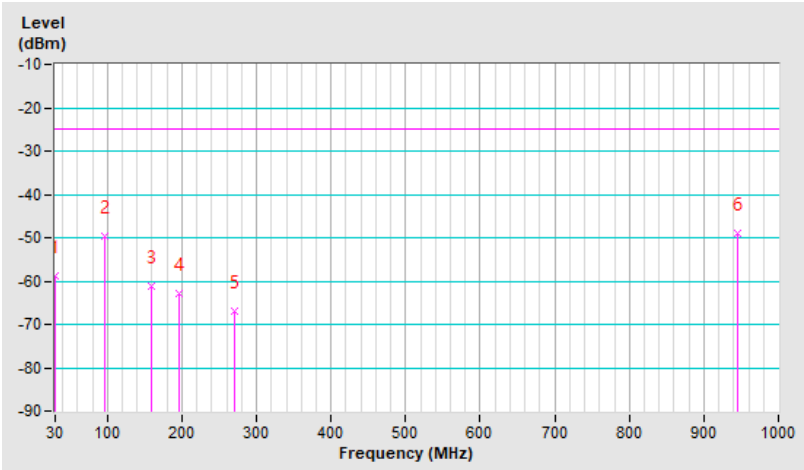
7.6.2 LTE Band 38

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	**Channel**	CH 38000：2595 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	30.00	-58.87	-25.00	-33.87	1.01 H	172	50.61	-109.48
2	96.93	-49.71	-25.00	-24.71	1.50 H	153	63.60	-113.31
3	159.98	-61.28	-25.00	-36.28	1.50 H	136	46.87	-108.15
4	196.84	-62.93	-25.00	-37.93	1.01 H	96	48.63	-111.56
5	270.56	-66.80	-25.00	-41.80	2.00 H	269	41.74	-108.54
6	945.68	-49.08	-25.00	-24.08	1.01 H	138	46.04	-95.12

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

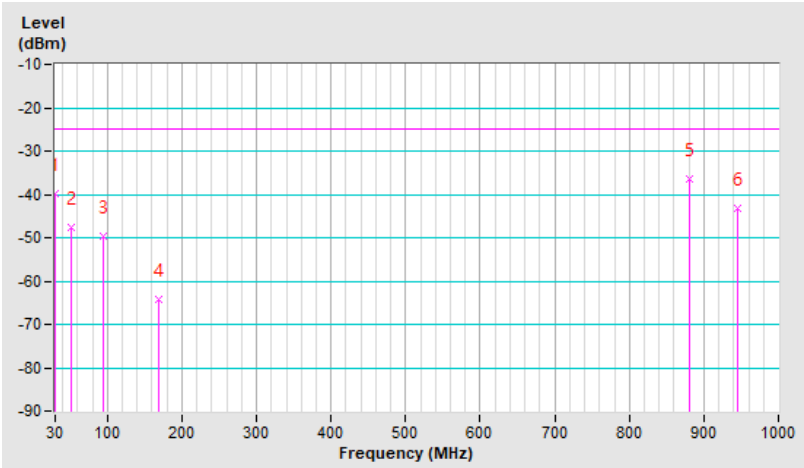


RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	**Channel**	CH 38000：2595 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	30.97	-39.99	-25.00	-14.99	1.00 V	11	69.77	-109.76
2	52.31	-47.47	-25.00	-22.47	1.00 V	224	60.92	-108.39
3	94.99	-49.82	-25.00	-24.82	1.49 V	107	63.84	-113.66
4	168.71	-64.07	-25.00	-39.07	1.49 V	76	44.51	-108.58
5	**880.69**	**-36.41**	**-25.00**	**-11.41**	**1.49 V**	**254**	**60.10**	**-96.51**
6	944.71	-43.35	-25.00	-18.35	1.49 V	18	51.79	-95.14

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



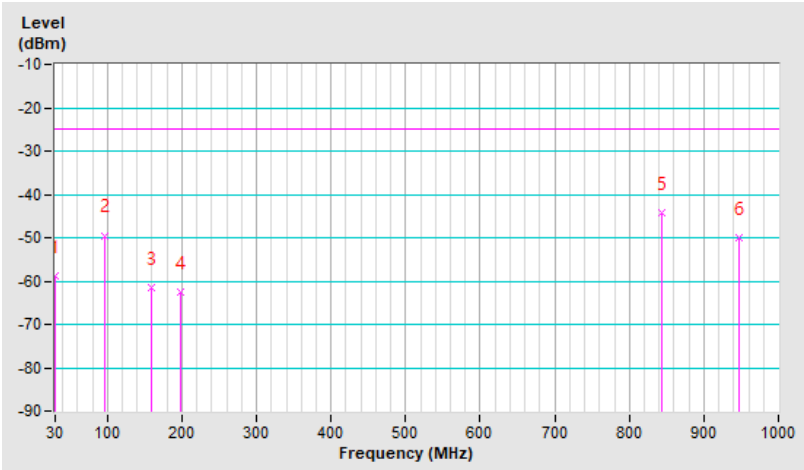
7.6.3 LTE Band 41

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	**Channel**	CH 40620：2593 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	30.00	-58.79	-25.00	-33.79	1.00 H	108	50.69	-109.48
2	96.93	-49.49	-25.00	-24.49	1.50 H	147	63.82	-113.31
3	159.01	-61.66	-25.00	-36.66	1.50 H	104	46.46	-108.12
4	198.78	-62.39	-25.00	-37.39	1.50 H	110	49.20	-111.59
5	843.83	-44.39	-25.00	-19.39	1.00 H	2	52.62	-97.01
6	946.65	-49.97	-25.00	-24.97	1.50 H	126	45.13	-95.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

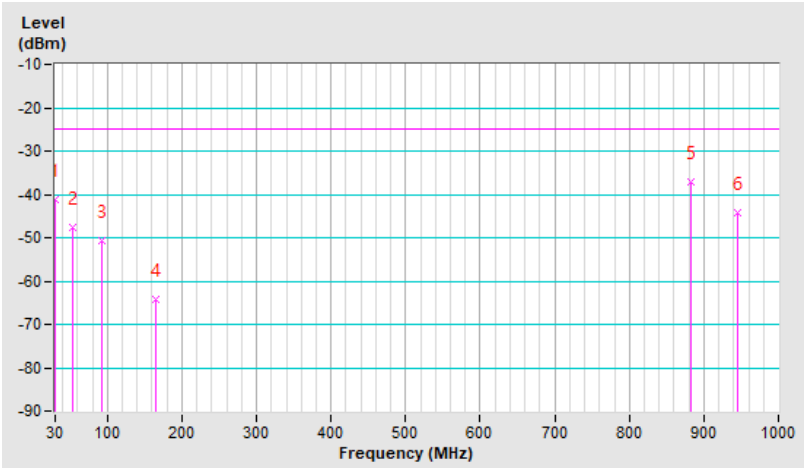


RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	**Channel**	CH 40620：2593 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	30.97	-41.19	-25.00	-16.19	1.01 V	100	68.57	-109.76
2	53.28	-47.47	-25.00	-22.47	1.01 V	281	60.97	-108.44
3	92.08	-50.66	-25.00	-25.66	1.50 V	130	63.23	-113.89
4	165.80	-64.35	-25.00	-39.35	1.01 V	113	44.09	-108.44
5	882.63	-37.26	-25.00	-12.26	1.50 V	266	59.23	-96.49
6	944.71	-44.12	-25.00	-19.12	1.50 V	298	51.02	-95.14

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



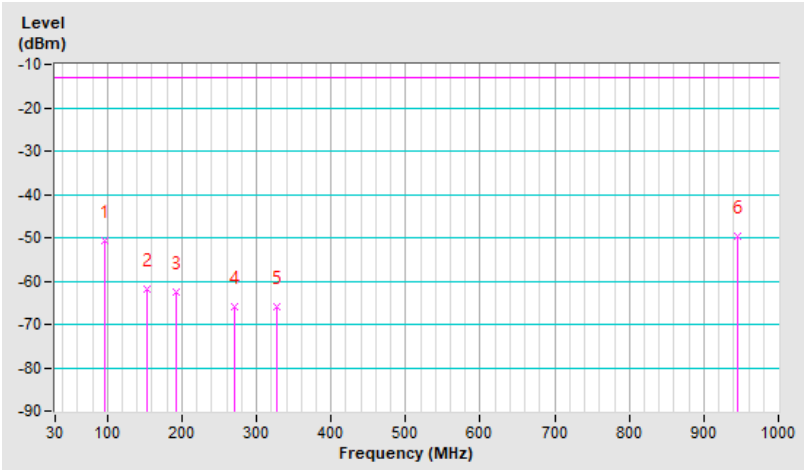
7.6.4 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 43065：3547.5 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	95.96	-50.83	-13.00	-37.83	1.50 H	173	62.73	-113.56
2	154.16	-62.00	-13.00	-49.00	1.50 H	119	46.05	-108.05
3	192.96	-62.44	-13.00	-49.44	1.50 H	119	48.94	-111.38
4	269.59	-65.81	-13.00	-52.81	2.00 H	279	42.78	-108.59
5	326.82	-65.95	-13.00	-52.95	1.50 H	56	40.73	-106.68
6	945.68	-49.54	-13.00	-36.54	1.01 H	18	45.58	-95.12

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

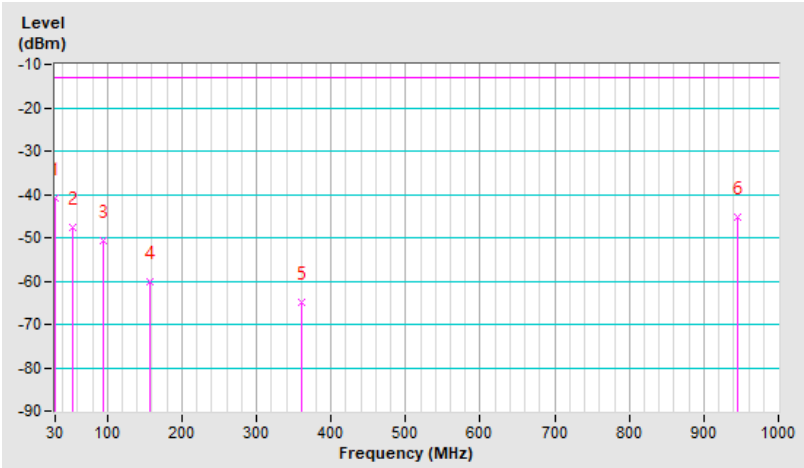


RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 43065：3547.5 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	30.97	-40.72	-13.00	-27.72	2.00 V	69	69.04	-109.76
2	53.28	-47.51	-13.00	-34.51	1.00 V	246	60.93	-108.44
3	94.99	-50.78	-13.00	-37.78	1.49 V	146	62.88	-113.66
4	157.07	-60.20	-13.00	-47.20	1.49 V	205	47.90	-108.10
5	360.77	-64.96	-13.00	-51.96	1.49 V	308	41.38	-106.34
6	944.71	-45.16	-13.00	-32.16	1.49 V	1	49.98	-95.14

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 LTE Band 8

RF Mode	LTE Band 8 Channel Bandwidth: 1.4MHz	**Channel**	CH 21632：898.2 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1796.40	-42.94	-13.00	-29.94	1.03 H	89	60.64	-103.58
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1796.40	-50.87	-13.00	-37.87	3.38 V	125	52.71	-103.58

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 8 Channel Bandwidth: 1.4MHz	**Channel**	CH 21640：899 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1798.00	-42.69	-13.00	-29.69	1.07 H	82	60.88	-103.57
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1798.00	-50.74	-13.00	-37.74	3.43 V	123	52.83	-103.57

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 8 Channel Bandwidth: 1.4MHz	**Channel**	CH 21648：899.8 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1799.60	-42.67	-13.00	-29.67	1.08 H	87	60.89	-103.56
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1799.60	-50.89	-13.00	-37.89	3.41 V	127	52.67	-103.56

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 8 Channel Bandwidth: 3MHz	**Channel**	CH 21640：899 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1798.00	-42.65	-13.00	-29.65	1.01 H	88	60.92	-103.57
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1798.00	-50.71	-13.00	-37.71	3.38 V	122	52.86	-103.57

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.2 LTE Band 38

RF Mode	LTE Band 38 Channel Bandwidth: 5MHz	**Channel**	CH 37775：2572.5 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5145.00	-46.35	-25.00	-21.35	1.16 H	64	46.07	-92.42
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**5145.00**	**-44.45**	**-25.00**	**-19.45**	**2.57 V**	**118**	**47.97**	**-92.42**

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 38 Channel Bandwidth: 5MHz	**Channel**	CH 38000：2595 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5190.00	-46.34	-25.00	-21.34	1.13 H	61	46.09	-92.43
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5190.00	-44.47	-25.00	-19.47	2.58 V	114	47.96	-92.43

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 38 Channel Bandwidth: 5MHz	**Channel**	CH 38225：2617.5 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5235.00	-46.51	-25.00	-21.51	1.16 H	59	46.02	-92.53
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5235.00	-44.61	-25.00	-19.61	2.61 V	113	47.92	-92.53

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	**Channel**	CH 37850：2580 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5160.00	-46.33	-25.00	-21.33	1.17 H	61	46.08	-92.41
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**5160.00**	**-44.45**	**-25.00**	**-19.45**	**2.61 V**	**119**	**47.96**	**-92.41**

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	**Channel**	CH 38000：2595 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5190.00	-46.25	-25.00	-21.25	1.10 H	65	46.18	-92.43
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**5190.00**	**-44.45**	**-25.00**	**-19.45**	**2.57 V**	**117**	**47.98**	**-92.43**

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	**Channel**	CH 38150：2610 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5220.00	-46.42	-25.00	-21.42	1.09 H	59	46.07	-92.49
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5220.00	-44.54	-25.00	-19.54	2.68 V	112	47.95	-92.49

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.3 LTE Band 41

RF Mode	LTE Band 41 Channel Bandwidth: 5MHz	**Channel**	CH 39675：2498.5 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	4997.00	-46.79	-25.00	-21.79	1.01 H	12	46.03	-92.82
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	4997.00	-45.87	-25.00	-20.87	2.72 V	132	46.95	-92.82

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 Channel Bandwidth: 5MHz	**Channel**	CH 40620：2593 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5186.00	-46.31	-25.00	-21.31	1.03 H	14	46.12	-92.43
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5186.00	-45.62	-25.00	-20.62	2.67 V	134	46.81	-92.43

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 Channel Bandwidth: 5MHz	**Channel**	CH 41565：2687.5 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5375.00	-46.48	-25.00	-21.48	1.06 H	10	46.11	-92.59
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5375.00	-45.56	-25.00	-20.56	2.69 V	133	47.03	-92.59

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	**Channel**	CH 39750：2506 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5012.00	-46.62	-25.00	-21.62	1.07 H	7	46.23	-92.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5012.00	-46.07	-25.00	-21.07	2.67 V	130	46.78	-92.85

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	**Channel**	CH 40620：2593 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5186.00	-46.14	-25.00	-21.14	1.02 H	8	46.29	-92.43
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5186.00	-45.35	-25.00	-20.35	2.66 V	135	47.08	-92.43

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	**Channel**	CH 41490：2680 MHz
Frequency Range	1 GHz ~ 27 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5360.00	-46.65	-25.00	-21.65	1.02 H	13	45.99	-92.64
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5360.00	-45.81	-25.00	-20.81	2.64 V	127	46.83	-92.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.4 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 42115：3452.5 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6905.00	-42.36	-13.00	-29.36	1.25 H	16	44.84	-87.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6905.00	-40.45	-13.00	-27.45	1.64 V	234	46.75	-87.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 42590：3500 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-42.30	-13.00	-29.30	1.21 H	15	44.86	-87.16
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-40.40	-13.00	-27.40	1.57 V	232	46.76	-87.16

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 43065：3547.5 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7095.00	-42.04	-13.00	-29.04	1.22 H	18	44.81	-86.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7095.00	-40.12	-13.00	-27.12	1.64 V	237	46.73	-86.85

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6920.00	-42.39	-13.00	-29.39	1.18 H	19	44.76	-87.15
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6920.00	-40.43	-13.00	-27.43	1.61 V	233	46.72	-87.15

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42590：3500 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-42.29	-13.00	-29.29	1.23 H	16	44.87	-87.16
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-40.39	-13.00	-27.39	1.67 V	231	46.77	-87.16

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42990：3540 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7080.00	-42.10	-13.00	-29.10	1.25 H	21	44.83	-86.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7080.00	-40.32	-13.00	-27.32	1.64 V	239	46.61	-86.93

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.8 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Noah Chang

7.8.1 LTE Band 8

LTE Band 8, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 21632 (898.2 MHz)		CH 21648 (899.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	898.200003	0.0033	899.799998	-0.0022
3.85	898.200005	0.0056	899.800008	0.0089
4.43	898.199996	-0.0045	899.799999	-0.0011

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 21632 (898.2 MHz)		CH 21648 (899.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	898.199991	-0.01	899.799995	-0.0056
-20	898.199995	-0.0056	899.799992	-0.0089
-10	898.200003	0.0033	899.799999	-0.0011
0	898.200001	0.0011	899.8	0
10	898.199996	-0.0045	899.799996	-0.0044
20	898.200007	0.0078	899.800003	0.0033
30	898.200001	0.0011	899.799999	-0.0011
40	898.2	0	899.800005	0.0056
50	898.200007	0.0078	899.800006	0.0067

LTE Band 8, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage		
Voltage (Vdc)	CH 21640 (899 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
3.27	898.999999	-0.0011
3.85	898.999992	-0.0089
4.43	899	0

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature		
Temperature (℃)	CH 21640 (899 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
-30	899.000002	0.0022
-20	899.000009	0.01
-10	899.000005	0.0056
0	898.999997	-0.0033
10	899	0
20	899.000001	0.0011
30	899	0
40	899.000002	0.0022
50	898.999991	-0.01

7.8.2 LTE Band 38

LTE Band 38, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 37775 (2572.5 MHz)		CH 38225 (2617.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2572.499993	-0.0027	2617.499991	-0.0034
3.85	2572.500008	0.0031	2617.500004	0.0015
4.43	2572.499993	-0.0027	2617.499992	-0.0031

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 37775 (2572.5 MHz)		CH 38225 (2617.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2572.5	0	2617.500001	0.0004
-20	2572.499998	-0.0008	2617.500002	0.0008
-10	2572.499993	-0.0027	2617.499997	-0.0011
0	2572.499998	-0.0008	2617.499997	-0.0011
10	2572.500006	0.0023	2617.500005	0.0019
20	2572.499999	-0.0004	2617.500001	0.0004
30	2572.500003	0.0012	2617.500001	0.0004
40	2572.500002	0.0008	2617.499998	-0.0008
50	2572.499991	-0.0035	2617.499992	-0.0031

LTE Band 38, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 37800 (2575 MHz)		CH 38200 (2615 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2575.000005	0.0019	2615	0
3.85	2575.000001	0.0004	2615.000005	0.0019
4.43	2575	0	2615.000005	0.0019

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 37800 (2575 MHz)		CH 38200 (2615 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2574.999997	-0.0012	2615	0
-20	2574.999997	-0.0012	2614.999998	-0.0008
-10	2574.999999	-0.0004	2615.000002	0.0008
0	2574.999999	-0.0004	2615.000003	0.0011
10	2575.000002	0.0008	2615.000005	0.0019
20	2575.000008	0.0031	2615.000007	0.0027
30	2574.999998	-0.0008	2615	0
40	2575.000006	0.0023	2615.000009	0.0034
50	2574.999996	-0.0016	2614.999998	-0.0008

LTE Band 38, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 37825 (2577.5 MHz)		CH 38175 (2612.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2577.500003	0.0012	2612.5	0
3.85	2577.499995	-0.0019	2612.499999	-0.0004
4.43	2577.50001	0.0039	2612.500009	0.0034

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 37825 (2577.5 MHz)		CH 38175 (2612.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2577.5	0	2612.499998	-0.0008
-20	2577.500009	0.0035	2612.500005	0.0019
-10	2577.500006	0.0023	2612.50001	0.0038
0	2577.500002	0.0008	2612.500005	0.0019
10	2577.500008	0.0031	2612.500005	0.0019
20	2577.500004	0.0016	2612.500006	0.0023
30	2577.49999	-0.0039	2612.499993	-0.0027
40	2577.500008	0.0031	2612.50001	0.0038
50	2577.499994	-0.0023	2612.499997	-0.0011

LTE Band 38, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 37850 (2580 MHz)		CH 38150 (2610 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2579.999997	-0.0012	2609.999995	-0.0019
3.85	2580.000009	0.0035	2610.000006	0.0023
4.43	2580.000009	0.0035	2610.00001	0.0038

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 37850 (2580 MHz)		CH 38150 (2610 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2580.000008	0.0031	2610.00001	0.0038
-20	2580.000003	0.0012	2610	0
-10	2579.999997	-0.0012	2610.000001	0.0004
0	2579.999999	-0.0004	2610.000002	0.0008
10	2579.999999	-0.0004	2610.000003	0.0011
20	2579.999995	-0.0019	2609.999995	-0.0019
30	2579.999995	-0.0019	2609.999992	-0.0031
40	2579.999992	-0.0031	2609.999991	-0.0034
50	2579.999997	-0.0012	2610	0

7.8.3 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39675 (2498.5 MHz)		CH 41565 (2687.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2498.5	0	2687.500002	0.0007
3.85	2498.500006	0.0024	2687.500008	0.003
4.43	2498.500009	0.0036	2687.500007	0.0026

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 39675 (2498.5 MHz)		CH 41565 (2687.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2498.499996	-0.0016	2687.499998	-0.0007
-20	2498.500005	0.002	2687.500009	0.0033
-10	2498.499998	-0.0008	2687.499993	-0.0026
0	2498.500002	0.0008	2687.500006	0.0022
10	2498.5	0	2687.500001	0.0004
20	2498.49999	-0.004	2687.499993	-0.0026
30	2498.500001	0.0004	2687.500001	0.0004
40	2498.5	0	2687.5	0
50	2498.500001	0.0004	2687.499999	-0.0004

LTE Band 41, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39700 (2501 MHz)		CH 41540 (2685 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2500.999993	-0.0028	2684.999991	-0.0034
3.85	2501.000007	0.0028	2685.000006	0.0022
4.43	2500.999992	-0.0032	2684.999991	-0.0034

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 39700 (2501 MHz)		CH 41540 (2685 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2500.999999	-0.0004	2684.999999	-0.0004
-20	2500.999997	-0.0012	2685	0
-10	2500.999998	-0.0008	2685.000003	0.0011
0	2501.000004	0.0016	2685.000005	0.0019
10	2500.999998	-0.0008	2685.000001	0.0004
20	2501.000002	0.0008	2685.000001	0.0004
30	2501.000004	0.0016	2685.000008	0.003
40	2501.000006	0.0024	2685.000009	0.0034
50	2501.000001	0.0004	2684.999999	-0.0004

LTE Band 41, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39725 (2503.5 MHz)		CH 41515 (2682.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2503.500006	0.0024	2682.500004	0.0015
3.85	2503.5	0	2682.500003	0.0011
4.43	2503.499998	-0.0008	2682.5	0

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 39725 (2503.5 MHz)		CH 41515 (2682.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2503.5	0	2682.500001	0.0004
-20	2503.499991	-0.0036	2682.499994	-0.0022
-10	2503.500006	0.0024	2682.500008	0.003
0	2503.49999	-0.004	2682.499995	-0.0019
10	2503.499998	-0.0008	2682.500001	0.0004
20	2503.499996	-0.0016	2682.499995	-0.0019
30	2503.499996	-0.0016	2682.499996	-0.0015
40	2503.500002	0.0008	2682.500006	0.0022
50	2503.499996	-0.0016	2682.499994	-0.0022

LTE Band 41, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39750 (2506 MHz)		CH 41490 (2680 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2506	0	2680.000002	0.0007
3.85	2506.000002	0.0008	2679.999999	-0.0004
4.43	2505.999999	-0.0004	2680.000002	0.0007

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 39750 (2506 MHz)		CH 41490 (2680 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2505.999994	-0.0024	2679.999995	-0.0019
-20	2506	0	2679.999998	-0.0007
-10	2506.000008	0.0032	2680.000004	0.0015
0	2505.999991	-0.0036	2679.999996	-0.0015
10	2506.000007	0.0028	2680.000009	0.0034
20	2506.000007	0.0028	2680.000006	0.0022
30	2506.000004	0.0016	2680.000006	0.0022
40	2506.00001	0.004	2680.000006	0.0022
50	2505.999992	-0.0032	2679.999996	-0.0015

7.8.4 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 42115 (3452.5 MHz)		CH 43065 (3547.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	3452.500003	0.0009	3547.500007	0.002
3.85	3452.500006	0.0017	3547.500006	0.0017
4.43	3452.499992	-0.0023	3547.499994	-0.0017

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 42115 (3452.5 MHz)		CH 43065 (3547.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3452.499992	-0.0023	3547.49999	-0.0028
-20	3452.500003	0.0009	3547.499999	-0.0003
-10	3452.499997	-0.0009	3547.499993	-0.002
0	3452.500006	0.0017	3547.500004	0.0011
10	3452.500005	0.0014	3547.500007	0.002
20	3452.499996	-0.0012	3547.5	0
30	3452.499995	-0.0014	3547.5	0
40	3452.499992	-0.0023	3547.499993	-0.002
50	3452.499992	-0.0023	3547.49999	-0.0028

LTE Band 42, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 42140 (3455 MHz)		CH 43040 (3545 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	3454.999994	-0.0017	3544.999994	-0.0017
3.85	3454.999999	-0.0003	3545.000003	0.0008
4.43	3454.999997	-0.0009	3545	0

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 42140 (3455 MHz)		CH 43040 (3545 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3455.000003	0.0009	3545.000004	0.0011
-20	3455.000006	0.0017	3545.000002	0.0006
-10	3454.999998	-0.0006	3545.000001	0.0003
0	3455.000002	0.0006	3545.000005	0.0014
10	3454.999995	-0.0014	3544.999991	-0.0025
20	3455.000004	0.0012	3545.000006	0.0017
30	3454.999997	-0.0009	3544.999999	-0.0003
40	3455.000007	0.002	3545.000002	0.0006
50	3455.000006	0.0017	3545.000005	0.0014

LTE Band 42, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 42165 (3457.5 MHz)		CH 43015 (3542.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	3457.500002	0.0006	3542.500003	0.0008
3.85	3457.500001	0.0003	3542.500003	0.0008
4.43	3457.499992	-0.0023	3542.499996	-0.0011

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 42165 (3457.5 MHz)		CH 43015 (3542.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3457.500009	0.0026	3542.500006	0.0017
-20	3457.499994	-0.0017	3542.499994	-0.0017
-10	3457.500001	0.0003	3542.500005	0.0014
0	3457.500005	0.0014	3542.500002	0.0006
10	3457.5	0	3542.499999	-0.0003
20	3457.499991	-0.0026	3542.499993	-0.002
30	3457.500005	0.0014	3542.500001	0.0003
40	3457.500004	0.0012	3542.500007	0.002
50	3457.499991	-0.0026	3542.499996	-0.0011

LTE Band 42, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 42190 (3460 MHz)		CH 42990 (3540 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	3460.000003	0.0009	3540.000007	0.002
3.85	3459.999998	-0.0006	3539.999997	-0.0008
4.43	3460.000009	0.0026	3540.000005	0.0014

Note: The applicant defined the normal working voltage is from 3.27 to 4.43 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 42190 (3460 MHz)		CH 42990 (3540 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3459.999997	-0.0009	3540.000001	0.0003
-20	3459.999995	-0.0014	3539.999999	-0.0003
-10	3459.999996	-0.0012	3539.999998	-0.0006
0	3459.999993	-0.002	3539.999995	-0.0014
10	3460.000008	0.0023	3540.000003	0.0008
20	3460.000006	0.0017	3540.000003	0.0008
30	3460.000008	0.0023	3540.000004	0.0011
40	3459.999995	-0.0014	3539.999992	-0.0023
50	3459.999998	-0.0006	3540	0

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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