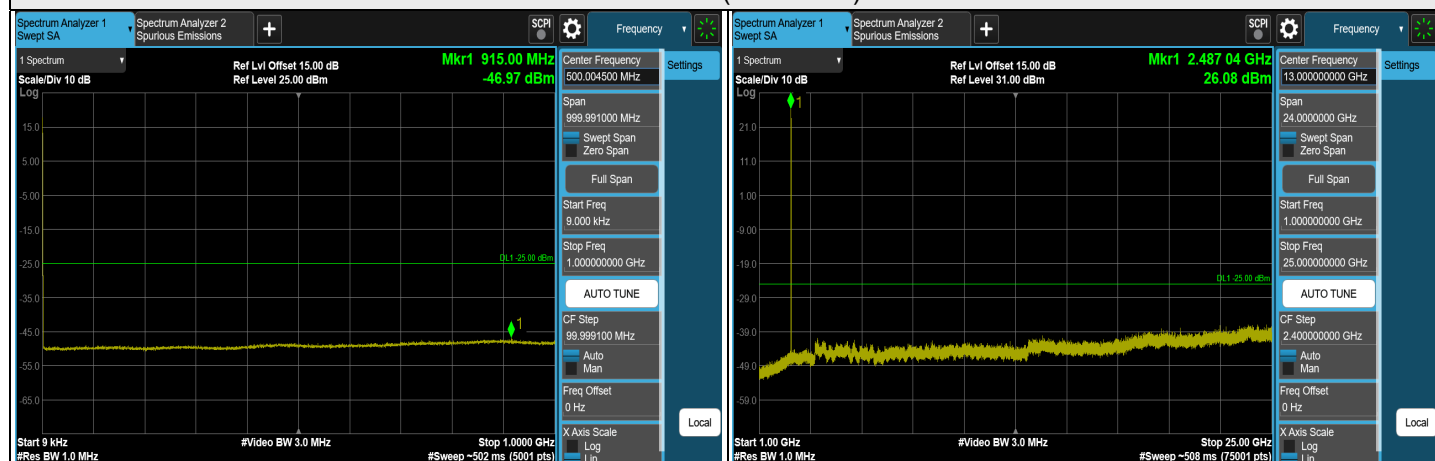


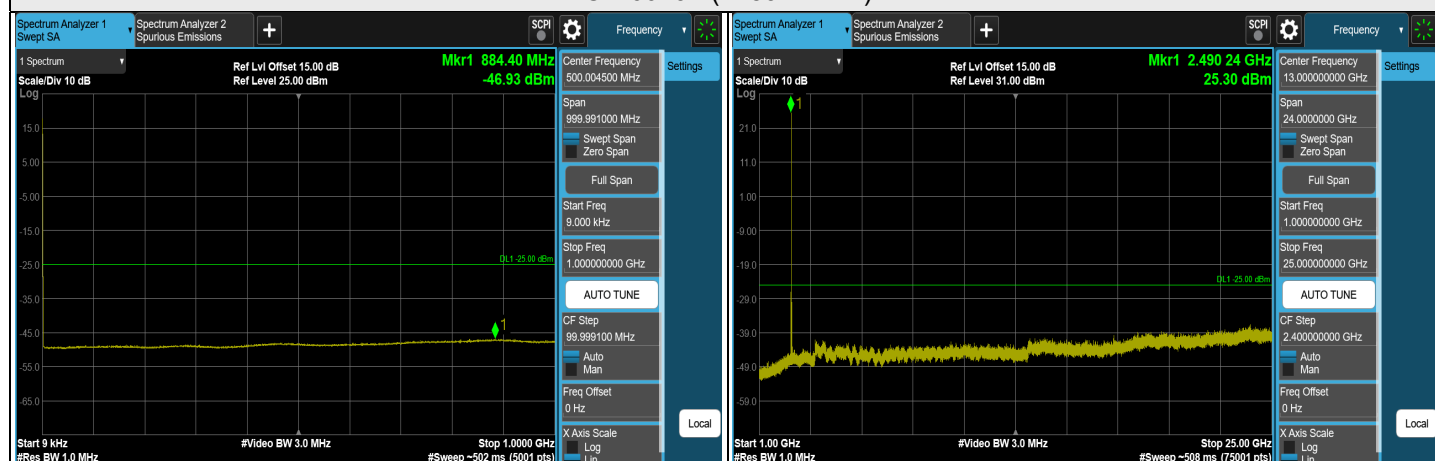
LTE Band 53, Channel Bandwidth: 5 MHz



CH 60165 (2486 MHz)

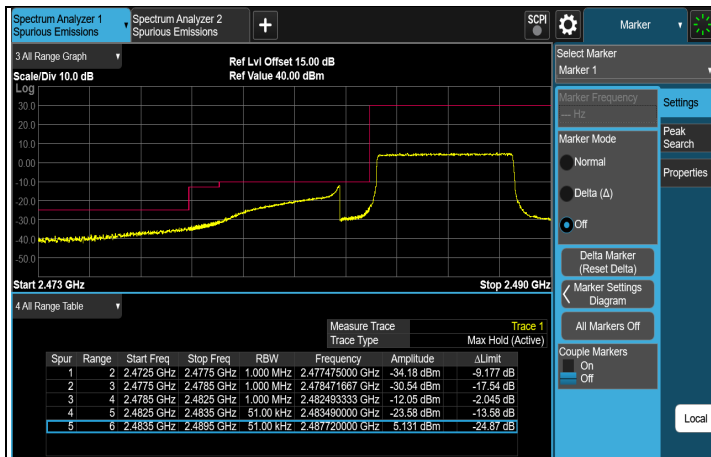


CH 60197 (2489.2 MHz)

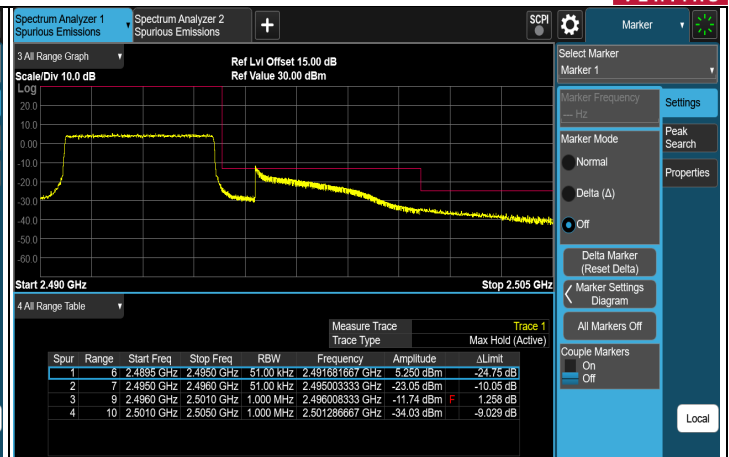


CH 60230 (2492.5 MHz)

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



FULL CH 60165 (2486 MHz)



FULL CH 0 (2492.5 MHz)

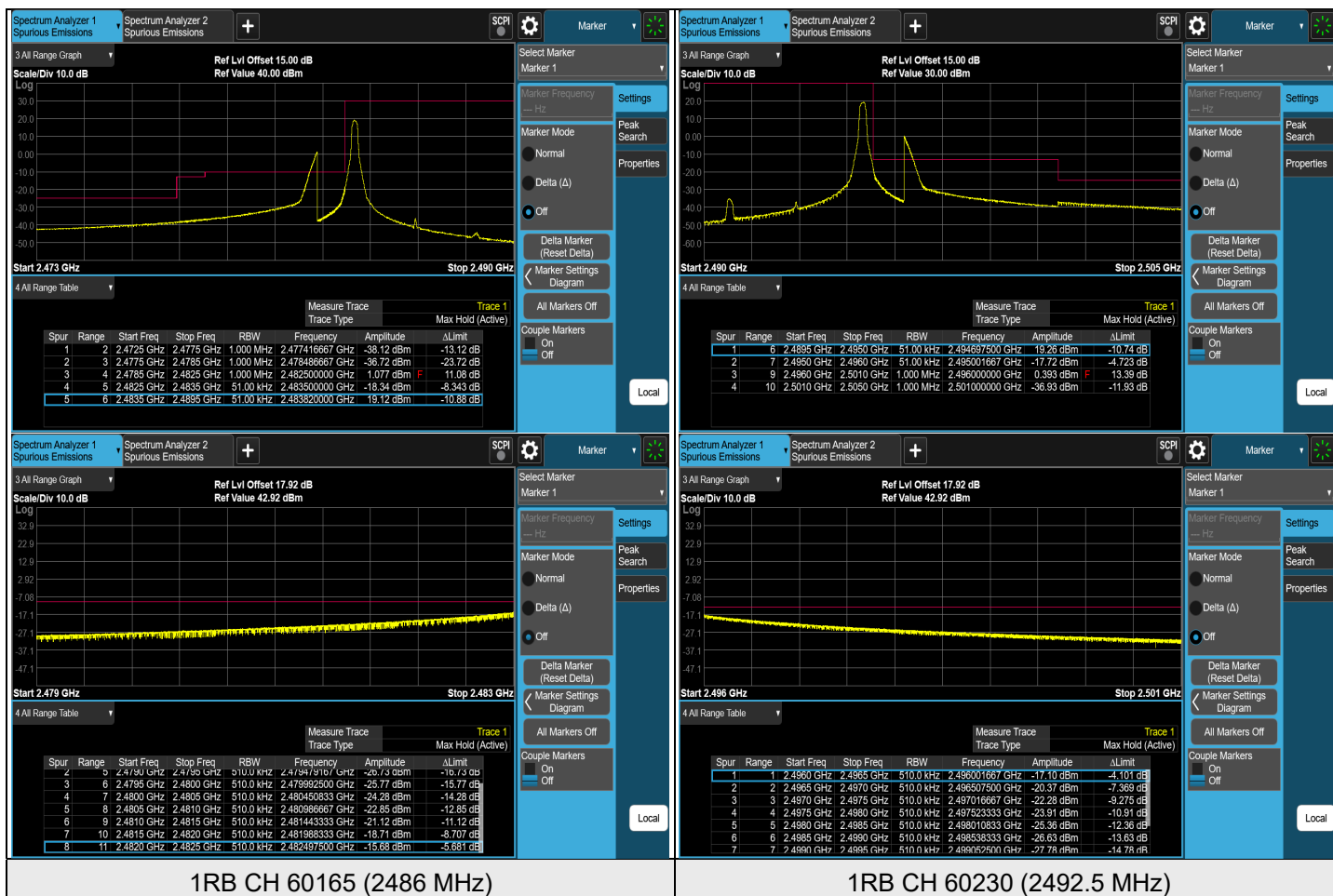
Note:

[RBW = 510 kHz / Reference RBW = 1 MHz]

Worst-case integrated BW power = [Max Measured Value (dBm) with RBW=510kHz] + 10log(1000/510)

To compensate for this integration before comparison to the limit, 2.92 dB was added to Ref Lvl Offset.

i.e. 15.00 dB CF + 2.92 dB integration compensation factor = 17.92 dB Ref Lvl Offset



Note:

[RBW = 510 kHz / Reference RBW = 1 MHz]

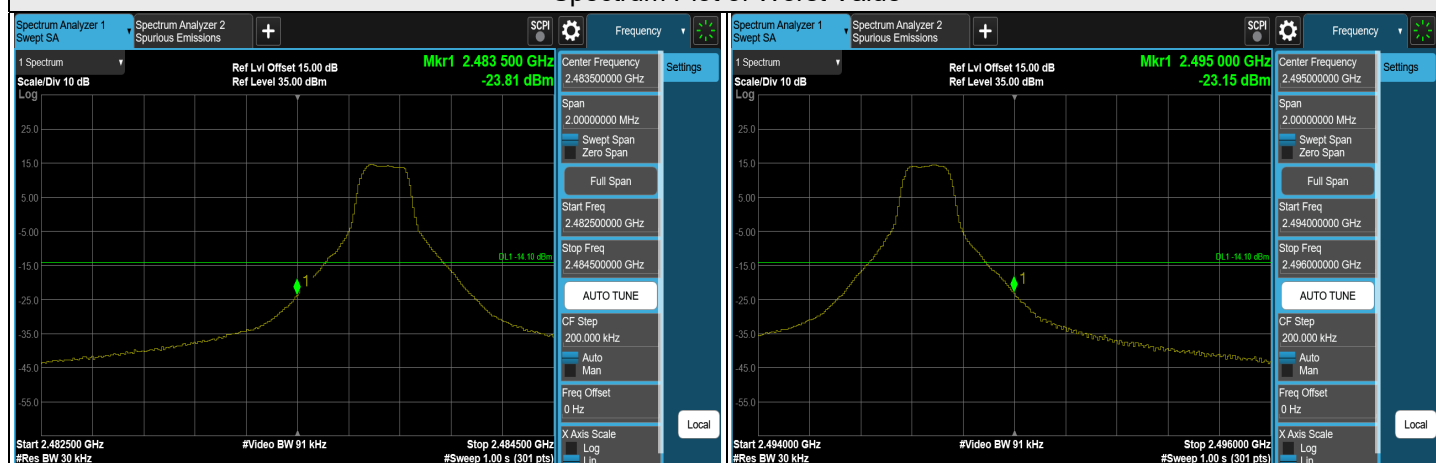
Worst-case integrated BW power = [Max Measured Value (dBm) with RBW=510kHz] + 10log(1000/510)

To compensate for this integration before comparison to the limit, 2.92 dB was added to Ref Lvl Offset.

i.e. 15.00 dB CF + 2.92 dB integration compensation factor = 17.92 dB Ref Lvl Offset

Modulation	Channel	RB Allocation/RB Offset	Frequency (MHz)	Cond Power Density(dBm/30kHz)	Antenna Gain (dBi)	EIRP Density (dBm/30kHz)	EIRP Density Limit (dBm/30kHz)	Result
QPSK	60165	1/0	2486	-23.81	1.63	-22.18	-14.1	PASS
QPSK	60165	25/0	2486	-28.98	1.63	-27.35	-14.1	PASS
QPSK	60230	1/24	2492.5	-23.15	1.63	-21.52	-14.1	PASS
QPSK	60230	25/0	2492.5	-27.68	1.63	-26.05	-14.1	PASS

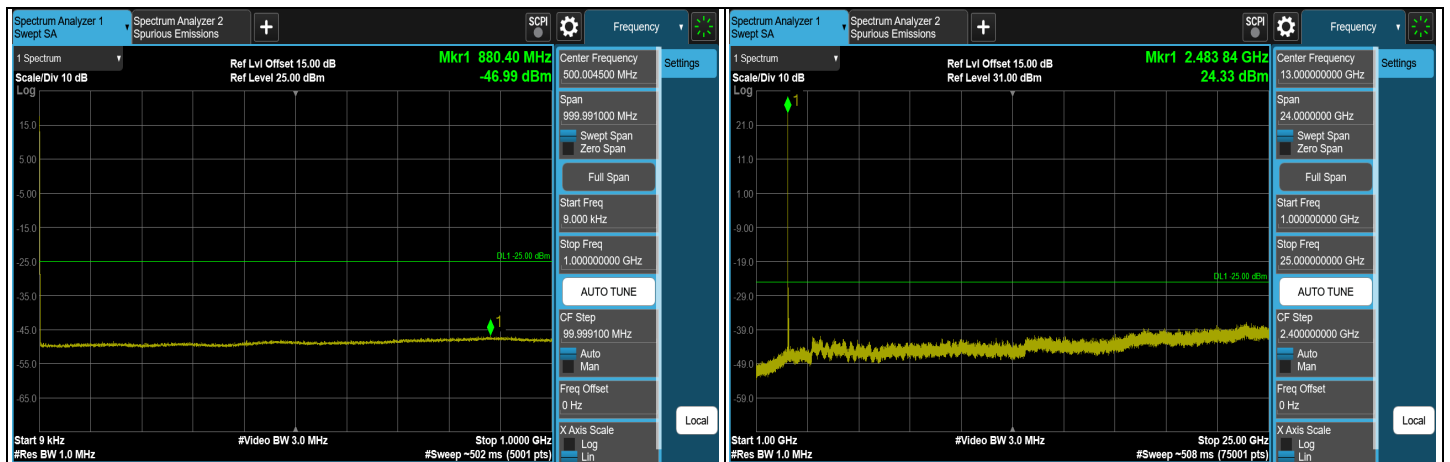
Spectrum Plot of Worst Value



QPSK CH 60165 (2486 MHz) RB 1/0

QPSK CH 60230 (2492.5 MHz) RB 1/24

LTE Band 53, Channel Bandwidth: 10 MHz



CH 60190 (2488.5 MHz)

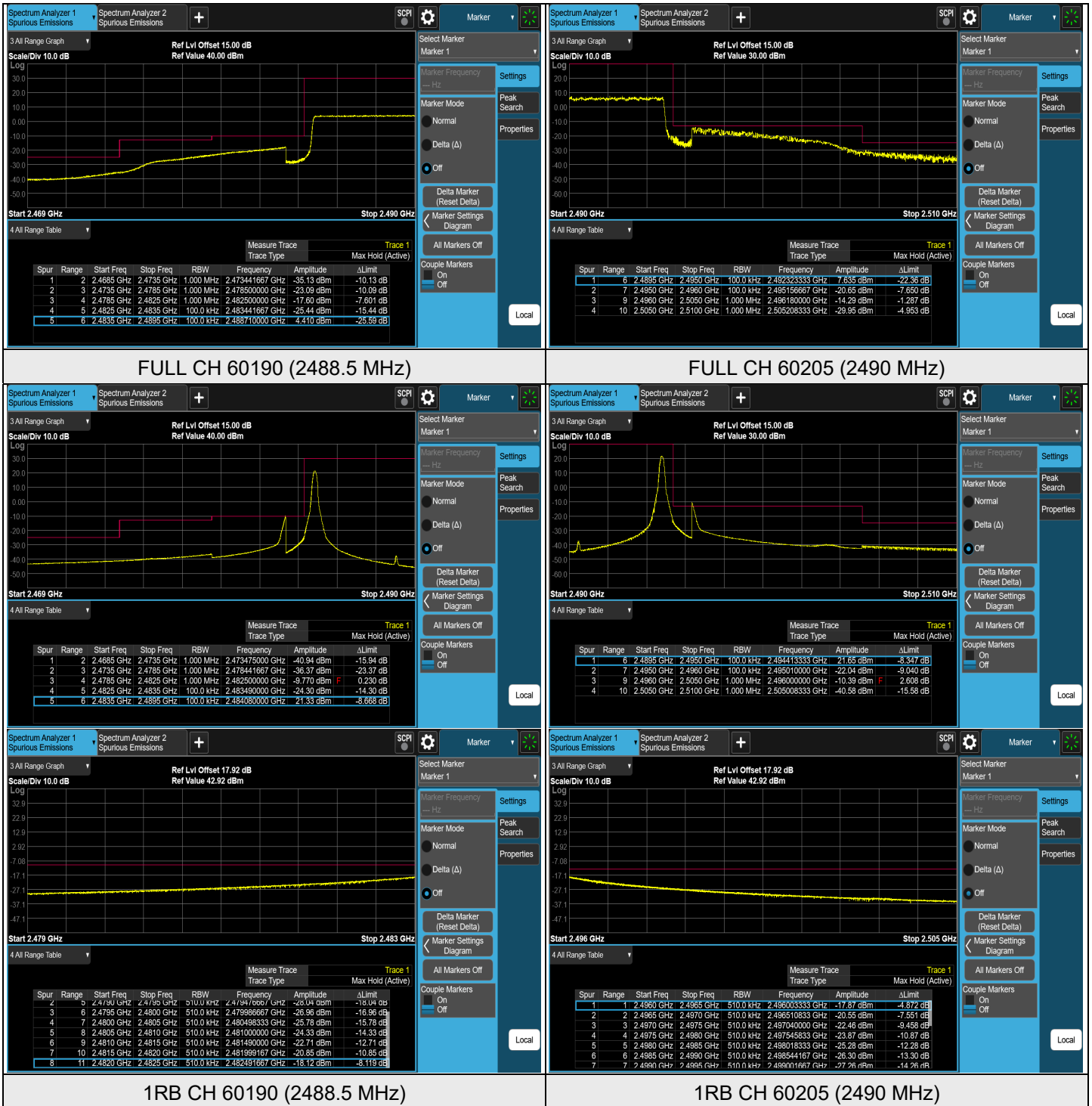


CH 60197 (2489.2 MHz)



CH 60205 (2490 MHz)

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



Note:

[RBW = 510 kHz / Reference RBW = 1 MHz]

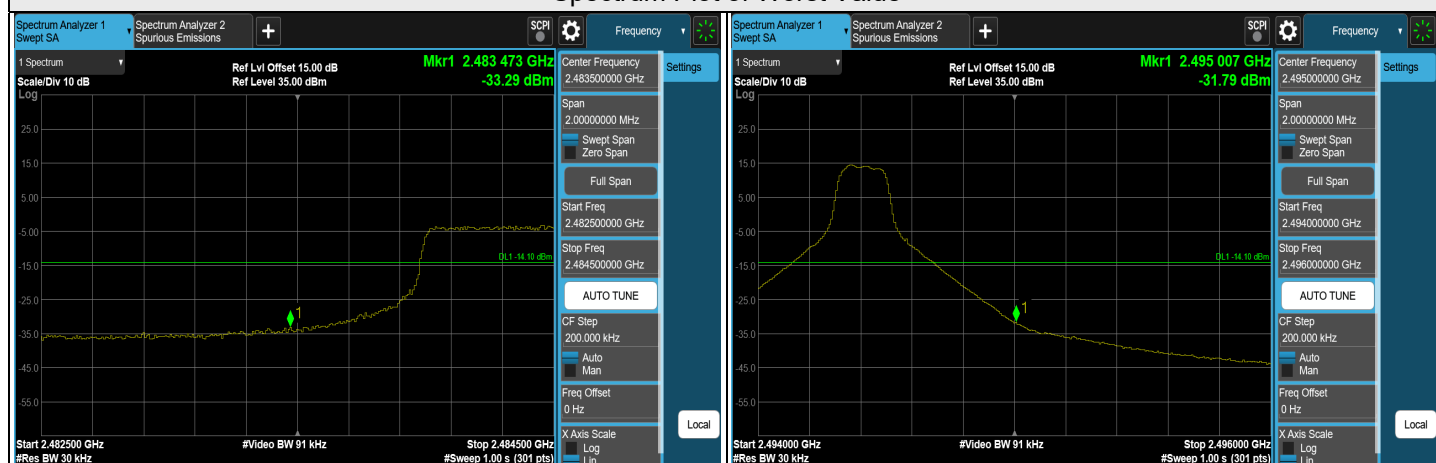
Worst-case integrated BW power = [Max Measured Value (dBm) with RBW=510kHz] + 10log(1000/510)

To compensate for this integration before comparison to the limit, 2.92 dB was added to Ref Lvl Offset.

i.e. 15.00 dB CF + 2.92 dB integration compensation factor = 17.92 dB Ref Lvl Offset

Modulation	Channel	RB Allocation/RB Offset	Frequency (MHz)	Cond Power Density(dBm/30kHz)	Antenna Gain (dBi)	EIRP Density (dBm/30kHz)	EIRP Density Limit (dBm/30kHz)	Result
QPSK	60190	1/0	2488.5	-33.36	1.63	-31.73	-14.1	PASS
QPSK	60190	50/0	2488.5	-33.29	1.63	-31.66	-14.1	PASS
QPSK	60205	1/49	2490	-31.79	1.63	-30.16	-14.1	PASS
QPSK	60205	50/0	2490	-33.46	1.63	-31.83	-14.1	PASS

Spectrum Plot of Worst Value



QPSK CH 60190 (2488.5 MHz) RB 50/0

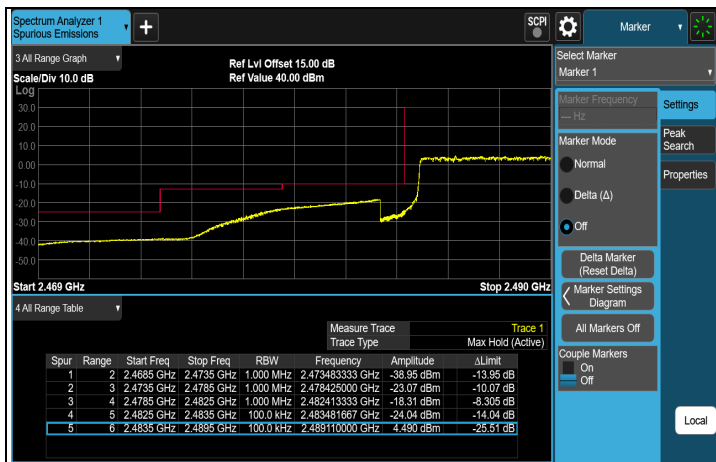
QPSK CH 60205 (2490 MHz) RB 1/49

7.5.2 NR n53 SCS 30kHz

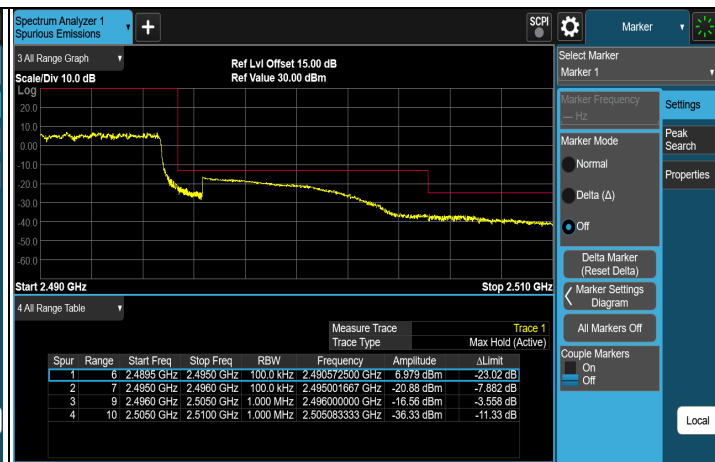
NR n53 SCS 30kHz, Channel Bandwidth: 10 MHz



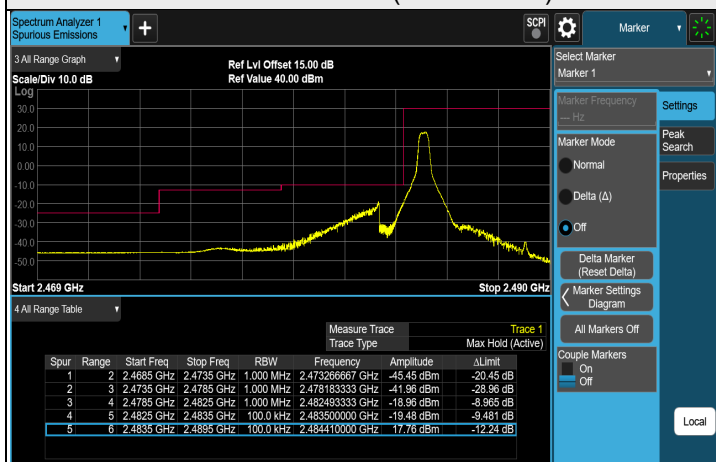
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



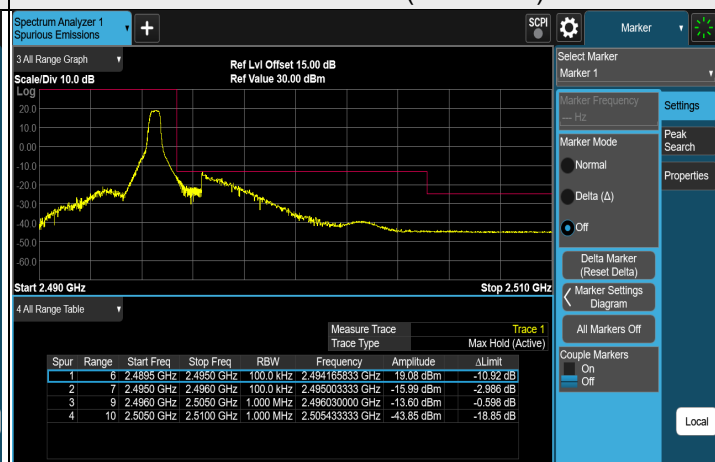
FULL CH 497700 (2488.5 MHz)



FULL CH 498000 (2490 MHz)



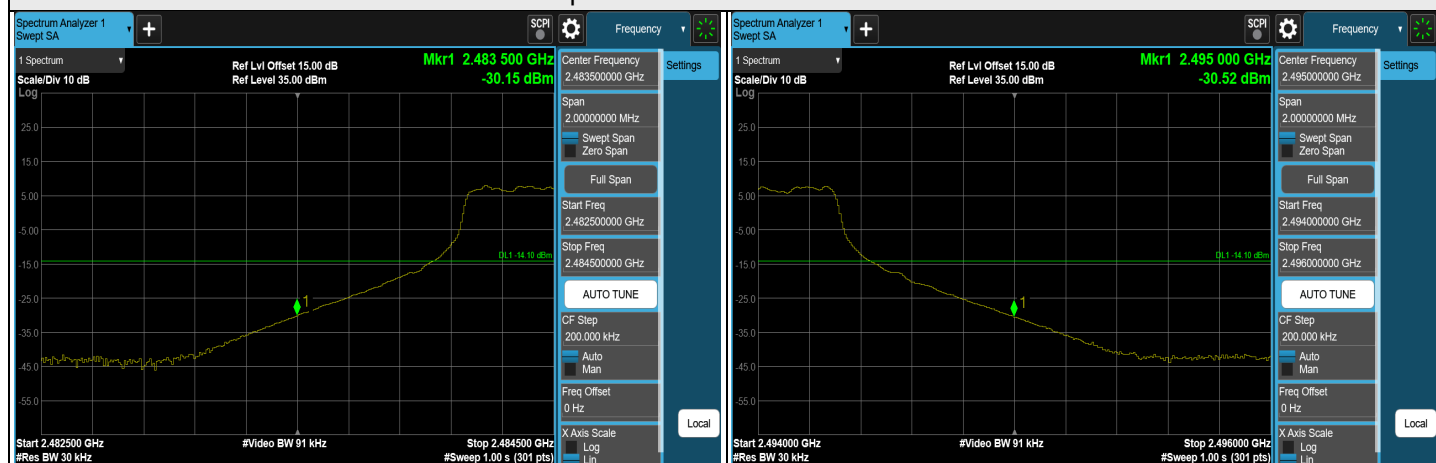
1RB CH 497700 (2488.5 MHz)



1RB CH 498000 (2490 MHz)

Modulation	Channel	RB Allocation/RB Offset	Frequency (MHz)	Cond Power Density(dBm/30kHz)	Antenna Gain (dBi)	EIRP Density (dBm/30kHz)	EIRP Density Limit (dBm/30kHz)	Result
QPSK	497700	1/0	2488.5	-30.15	1.63	-28.52	-14.1	PASS
QPSK	497700	24/0	2488.5	-34.39	1.63	-32.76	-14.1	PASS
QPSK	498000	1/23	2490	-30.52	1.63	-28.89	-14.1	PASS
QPSK	498000	24/0	2490	-34.11	1.63	-32.48	-14.1	PASS

Spectrum Plot of Worst Value



QPSK CH 497700 (2488.5 MHz) RB 1/0

QPSK CH 498000 (2490 MHz) RB 1/23

7.6 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Noah Chang
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7.6.1 LTE Band 53

LTE Band 53, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 60190 (2488.5 MHz)		CH 60205 (2490 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2488.499991	-0.0036	2489.999995	-0.0020
3.85	2488.499999	-0.0004	2490.000003	0.0012
4.43	2488.500003	0.0012	2490.000003	0.0012

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

Frequency Stability Versus Temperature				
Temperature (°C)	CH 60190 (2488.5 MHz)		CH 60205 (2490 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2488.500005	0.0020	2490.00001	0.0040
-20	2488.500002	0.0008	2490.000003	0.0012
-10	2488.499997	-0.0012	2489.999993	-0.0028
0	2488.500003	0.0012	2489.999999	-0.0004
10	2488.499996	-0.0016	2489.999997	-0.0012
20	2488.499994	-0.0024	2489.999995	-0.0020
30	2488.499996	-0.0016	2489.999995	-0.0020
40	2488.500007	0.0028	2490.000008	0.0032
50	2488.500002	0.0008	2490.000002	0.0008

7.6.2 NR n53 SCS 30kHz

NR n53 SCS 30kHz, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 497700 (2488.5 MHz)		CH 498000 (2490 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.27	2488.500002	0.0008	2490.000002	0.0008
3.85	2488.500002	0.0008	2490.000007	0.0028
4.43	2488.500006	0.0024	2490.000007	0.0028

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

Frequency Stability Versus Temperature				
Temperature (°C)	CH 497700 (2488.5 MHz)		CH 498000 (2490 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2488.500008	0.0032	2490.000004	0.0016
-20	2488.500005	0.002	2490.000007	0.0028
-10	2488.5	0	2489.999997	-0.0012
0	2488.500005	0.002	2490.000002	0.0008
10	2488.499999	-0.0004	2490.000001	0.0004
20	2488.499997	-0.0012	2489.999999	-0.0004
30	2488.499998	-0.0008	2489.999998	-0.0008
40	2488.500001	0.004	2490.000005	0.002
50	2488.500002	0.0008	2490.000006	0.0024

7.7 Radiated Spurious Emissions below 1 GHz

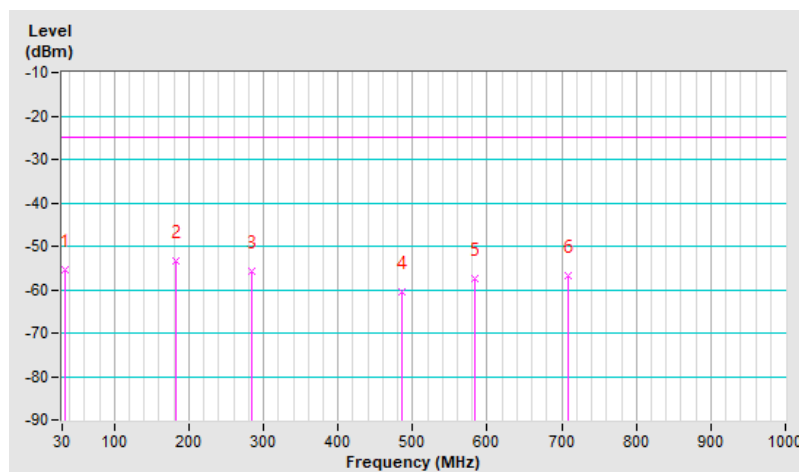
7.7.1 LTE Band 53

RF Mode	LTE Band 53 Channel Bandwidth: 10MHz	Channel	CH 60190 : 2488.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

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	34.85	-55.32	-25.00	-30.32	1.00 H	6	50.08	-105.40
2	182.29	-53.51	-25.00	-28.51	2.00 H	285	51.73	-105.24
3	285.11	-55.91	-25.00	-30.91	1.00 H	292	46.49	-102.40
4	485.90	-60.51	-25.00	-35.51	1.50 H	277	38.16	-98.67
5	582.90	-57.47	-25.00	-32.47	2.00 H	258	39.25	-96.72
6	709.00	-56.76	-25.00	-31.76	1.00 H	48	37.73	-94.49

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

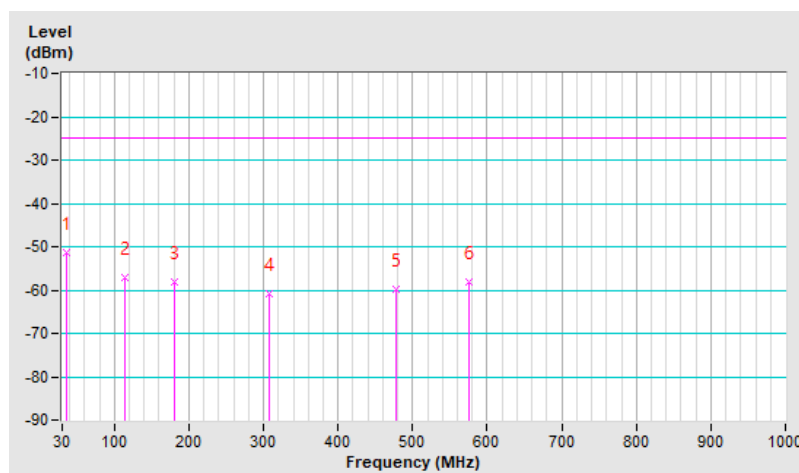


RF Mode	LTE Band 53 Channel Bandwidth: 10MHz	Channel	CH 60190 : 2488.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

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	35.82	-51.42	-25.00	-26.42	1.50 V	12	54.06	-105.48
2	114.39	-57.17	-25.00	-32.17	1.00 V	109	49.41	-106.58
3	181.32	-58.26	-25.00	-33.26	1.00 V	202	46.86	-105.12
4	307.42	-60.72	-25.00	-35.72	1.50 V	154	41.09	-101.81
5	478.14	-59.78	-25.00	-34.78	2.00 V	103	38.95	-98.73
6	575.14	-58.15	-25.00	-33.15	1.00 V	210	38.85	-97.00

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



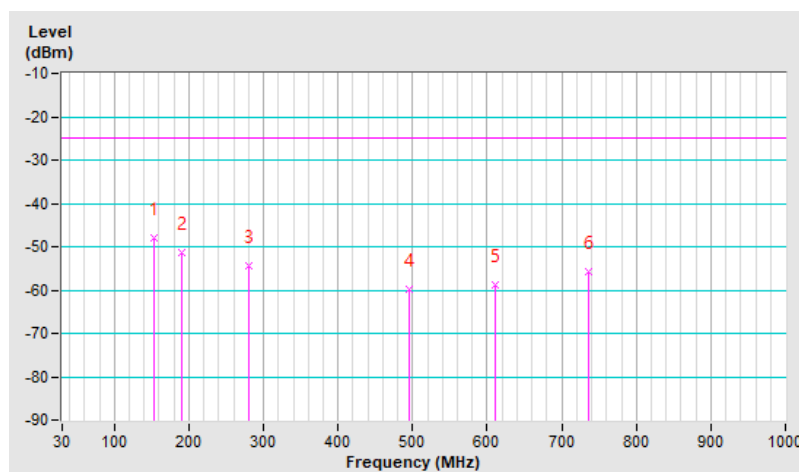
7.7.2 NR n53 SCS 30kHz

RF Mode	NR n53 Channel Bandwidth: 10MHz	Channel	CH 497700 : 2488.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

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	153.19	-48.11	-25.00	-23.11	1.50 H	354	55.59	-103.70
2	190.05	-51.26	-25.00	-26.26	1.50 H	264	54.85	-106.11
3	281.23	-54.28	-25.00	-29.28	1.00 H	279	48.23	-102.51
4	494.63	-59.78	-25.00	-34.78	1.00 H	245	38.77	-98.55
5	611.03	-58.67	-25.00	-33.67	1.50 H	269	37.33	-96.00
6	735.19	-55.87	-25.00	-30.87	1.00 H	271	38.10	-93.97

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

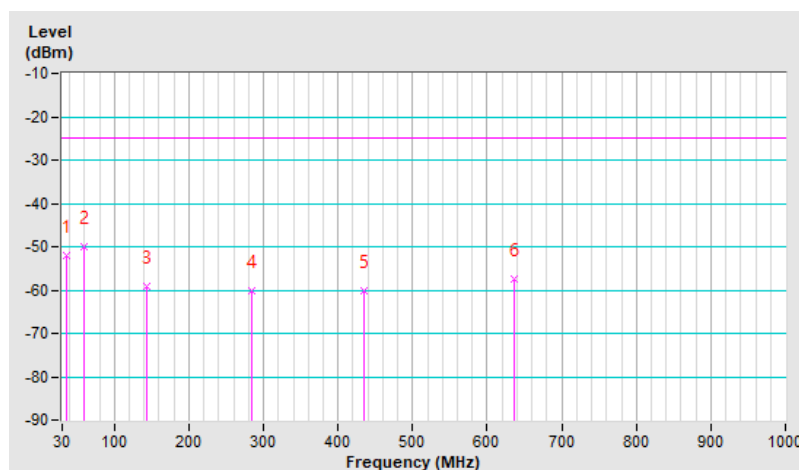


RF Mode	NR n53 Channel Bandwidth: 10MHz	Channel	CH 497700 : 2488.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

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	35.82	-52.06	-25.00	-27.06	1.00 V	184	53.42	-105.48
2	59.10	-49.92	-25.00	-24.92	2.00 V	293	54.76	-104.68
3	143.49	-58.99	-25.00	-33.99	1.00 V	301	44.96	-103.95
4	285.11	-60.11	-25.00	-35.11	1.00 V	243	42.29	-102.40
5	434.49	-60.32	-25.00	-35.32	1.50 V	122	39.10	-99.42
6	636.25	-57.37	-25.00	-32.37	1.50 V	12	38.16	-95.53

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



7.8 Radiated Spurious Emissions above 1 GHz

7.8.1 LTE Band 53

RF Mode	LTE Band 53 Channel Bandwidth: 1.4MHz	Channel	CH 60147 : 2484.2 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-53.91	-50.00	-3.91	1.58 H	283	46.23	-100.14
2	4968.40	-43.62	-25.00	-18.62	1.66 H	147	46.55	-90.17
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	1590.00	-54.81	-50.00	-4.81	1.58 V	267	45.33	-100.14
2	4968.40	-40.29	-25.00	-15.29	1.68 V	145	49.88	-90.17

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 1.4MHz	Channel	CH 60197 : 2489.2 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.01	-50.00	-4.01	1.55 H	284	46.13	-100.14
2	4978.40	-43.54	-25.00	-18.54	1.64 H	147	46.58	-90.12
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	1590.00	-54.58	-50.00	-4.58	1.55 V	266	45.56	-100.14
2	4978.40	-40.15	-25.00	-15.15	2.32 V	217	49.97	-90.12

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 1.4MHz	Channel	CH 60248 : 2494.3 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.46	-50.00	-4.46	1.60 H	265	45.68	-100.14
2	4988.60	-43.60	-25.00	-18.60	1.66 H	145	46.45	-90.05
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	1590.00	-54.86	-50.00	-4.86	1.60 V	283	45.28	-100.14
2	4988.60	-40.12	-25.00	-15.12	2.33 V	215	49.93	-90.05

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 5MHz	Channel	CH 60165 : 2486 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.26	-50.00	-4.26	1.54 H	285	45.88	-100.14
2	4972.00	-43.61	-25.00	-18.61	1.65 H	147	46.55	-90.16
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	1590.00	-54.38	-50.00	-4.38	1.60 V	275	45.76	-100.14
2	4972.00	-40.27	-25.00	-15.27	2.32 V	214	49.89	-90.16

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 5MHz	Channel	CH 60197 : 2489.2 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.22	-50.00	-4.22	1.56 H	276	45.92	-100.14
2	4978.40	-43.59	-25.00	-18.59	1.66 H	145	46.53	-90.12
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	1590.00	-54.86	-50.00	-4.86	1.54 V	264	45.28	-100.14
2	4978.40	-40.12	-25.00	-15.12	2.33 V	214	50.00	-90.12

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 5MHz	Channel	CH 60230 : 2492.5 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.50	-50.00	-4.50	1.66 H	284	45.64	-100.14
2	4985.00	-43.61	-25.00	-18.61	1.68 H	149	46.47	-90.08
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	1590.00	-54.46	-50.00	-4.46	1.55 V	269	45.68	-100.14
2	4985.00	-40.16	-25.00	-15.16	2.35 V	214	49.92	-90.08

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 10MHz	Channel	CH 60190 : 2488.5 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-53.27	-50.00	-3.27	1.55 H	290	46.87	-100.14
2	4977.00	-43.54	-25.00	-18.54	1.65 H	149	46.58	-90.12
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	1590.00	-53.91	-50.00	-3.91	1.58 V	266	46.23	-100.14
2	4977.00	-40.17	-25.00	-15.17	2.35 V	212	49.95	-90.12

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 10MHz	Channel	CH 60197 : 2489.2 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.26	-50.00	-4.26	1.54 H	269	45.88	-100.14
2	4978.40	-43.48	-25.00	-18.48	1.68 H	147	46.64	-90.12
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	1590.00	-54.09	-50.00	-4.09	1.57 V	265	46.05	-100.14
2	4978.40	-40.02	-25.00	-15.02	2.32 V	215	50.10	-90.12

Remarks:

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

RF Mode	LTE Band 53 Channel Bandwidth: 10MHz	Channel	CH 60205 : 2490 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-54.47	-50.00	-4.47	1.56 H	268	45.67	-100.14
2	4980.00	-43.50	-25.00	-18.50	1.68 H	142	46.62	-90.12
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	1590.00	-54.26	-50.00	-4.26	1.55 V	264	45.88	-100.14
2	4980.00	-40.23	-25.00	-15.23	2.32 V	214	49.89	-90.12

Remarks:

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

7.8.2 NR n53 SCS 30kHz

RF Mode	NR n53 Channel Bandwidth: 10MHz	Channel	CH 497700 : 2488.5 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-53.81	-50.00	-3.81	1.81 H	291	46.33	-100.14
2	4977.00	-43.68	-25.00	-18.68	1.65 H	146	46.44	-90.12
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	1590.00	-54.55	-50.00	-4.55	1.62 V	270	45.59	-100.14
2	4977.00	-40.24	-25.00	-15.24	2.35 V	217	49.88	-90.12

Remarks:

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

RF Mode	NR n53 Channel Bandwidth: 10MHz	Channel	CH 497840 : 2489.2 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-53.91	-50.00	-3.91	1.79 H	288	46.23	-100.14
2	4978.40	-43.54	-25.00	-18.54	1.68 H	148	46.58	-90.12
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	1590.00	-54.53	-50.00	-4.53	1.67 V	267	45.61	-100.14
2	4978.40	-39.89	-25.00	-14.89	2.33 V	215	50.23	-90.12

Remarks:

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

RF Mode	NR n53 Channel Bandwidth: 10MHz	Channel	CH 498000 : 2490 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Rex Wang		

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	1590.00	-53.86	-50.00	-3.86	1.73 H	287	46.28	-100.14
2	4980.00	-43.67	-25.00	-18.67	1.62 H	150	46.45	-90.12
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	1590.00	-54.63	-50.00	-4.63	1.68 V	269	45.51	-100.14
2	4980.00	-40.34	-25.00	-15.34	2.35 V	211	49.78	-90.12

Remarks:

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

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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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