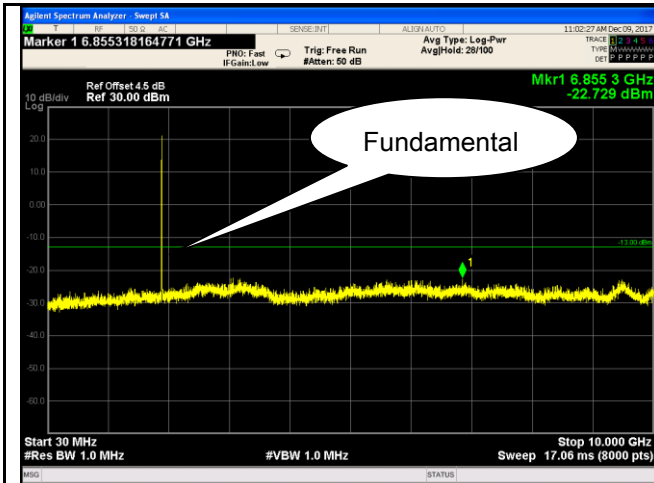
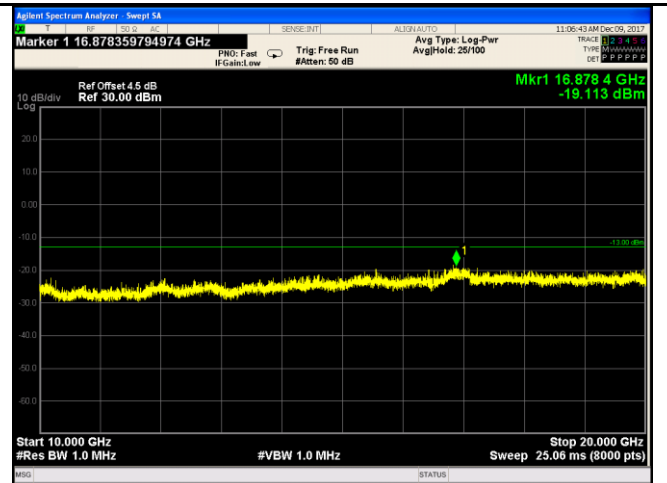


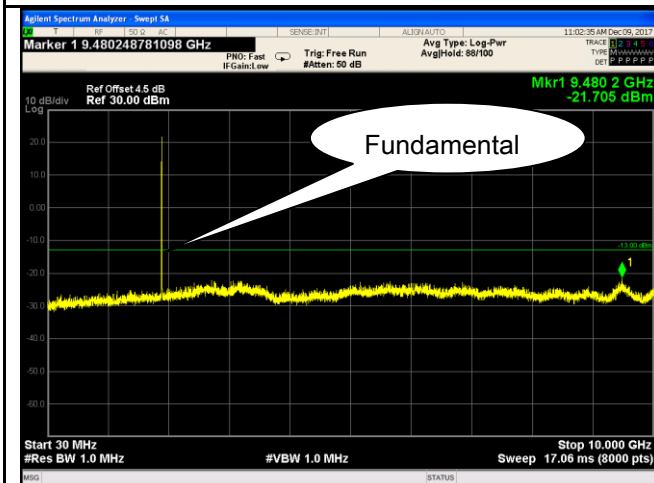
UMTS-FDD Band IV (Part 27)



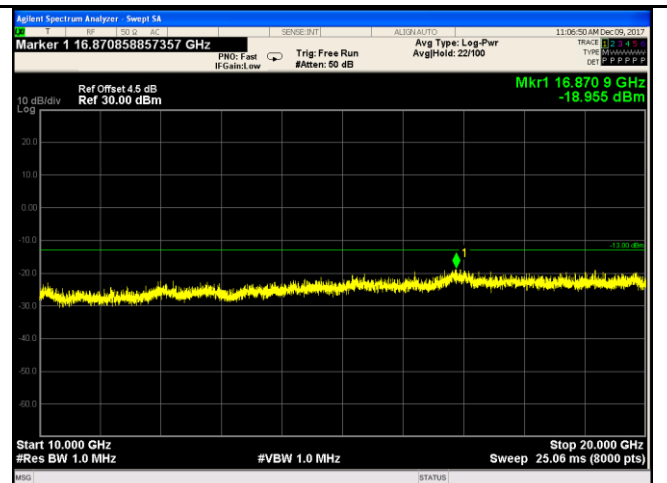
Band IV - Low Channel-1



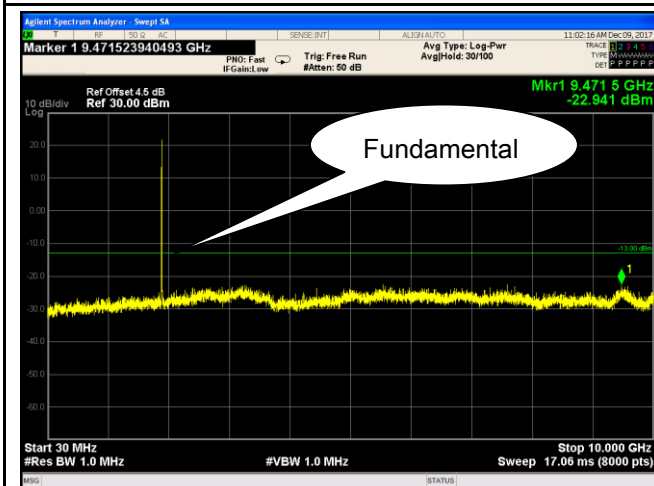
Band IV - Low Channel-2



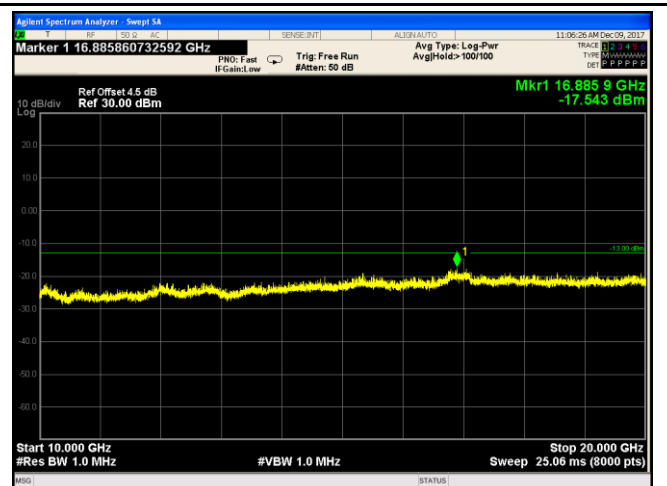
Band IV - Middle Channel-1



Band IV - Middle Channel-2



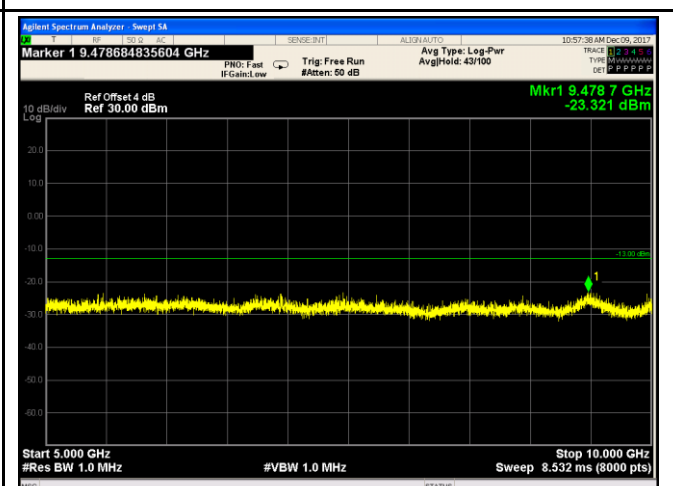
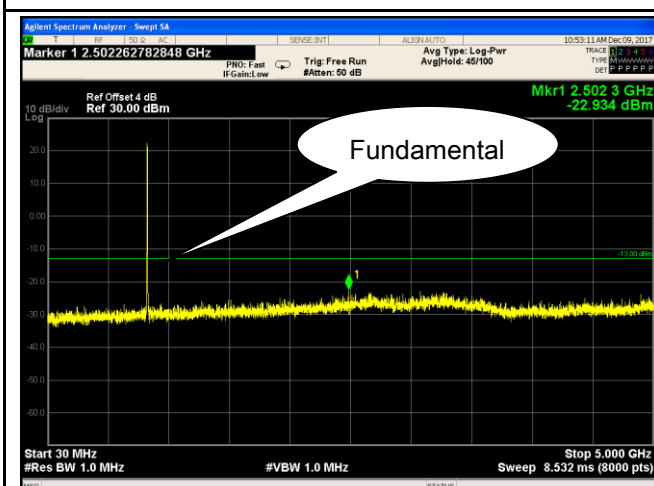
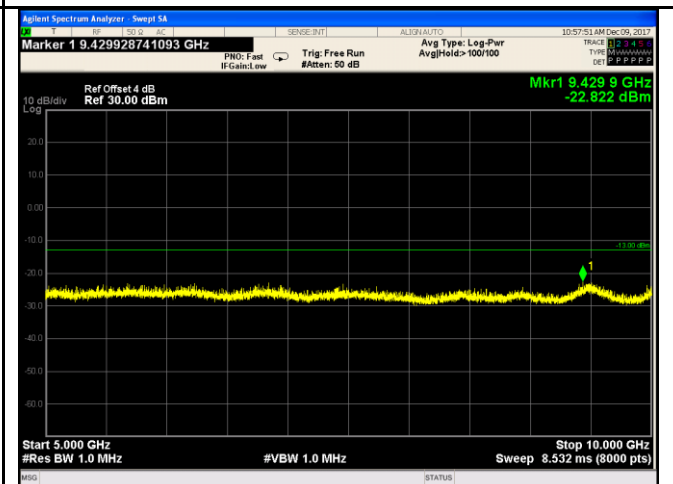
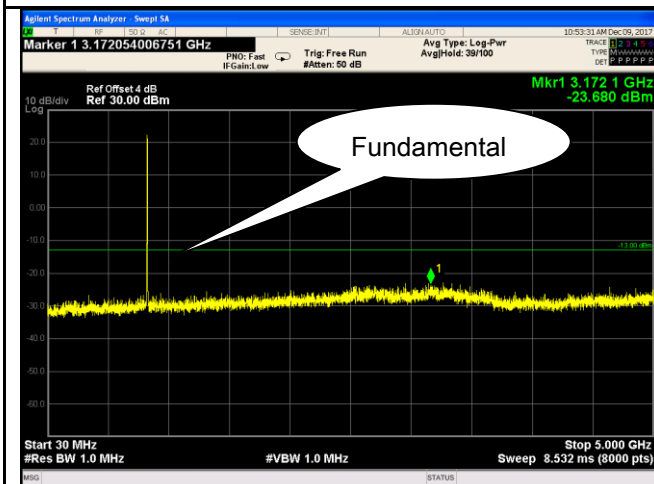
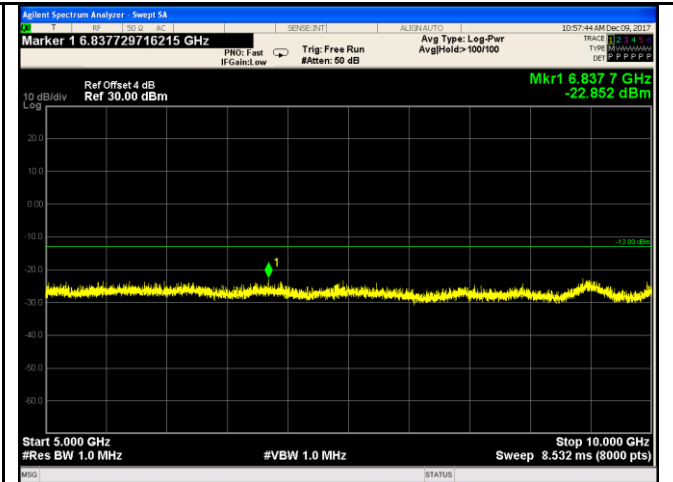
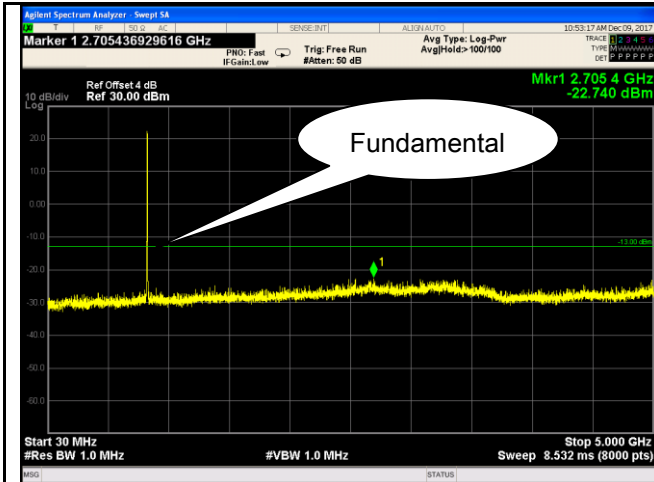
Band IV - High Channel-1



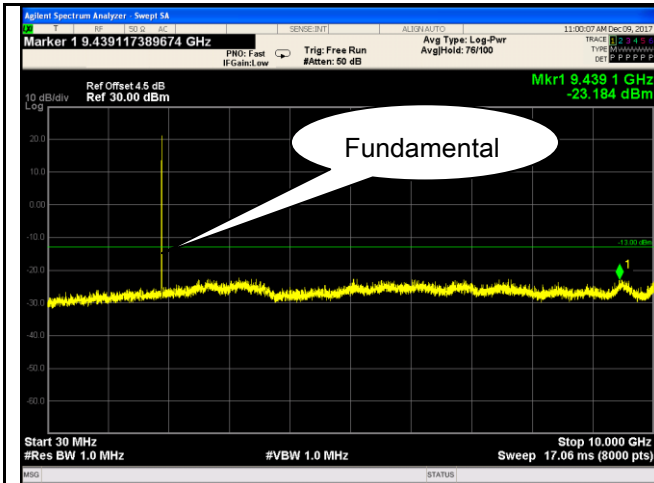
Band IV - High Channel-2

HSDPA:

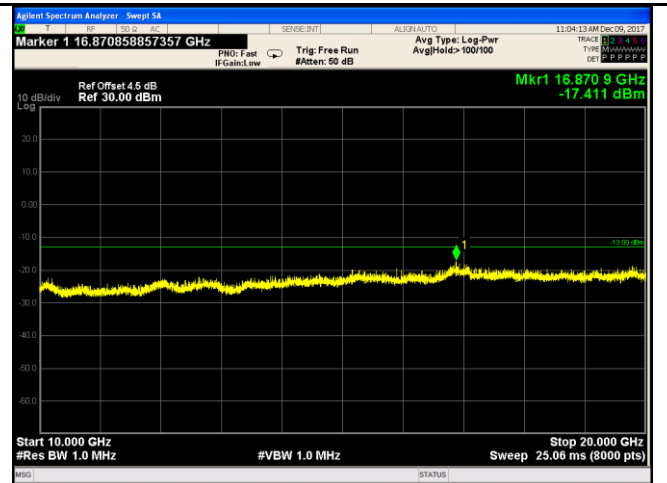
UMTS-FDD Band V (Part 22H)



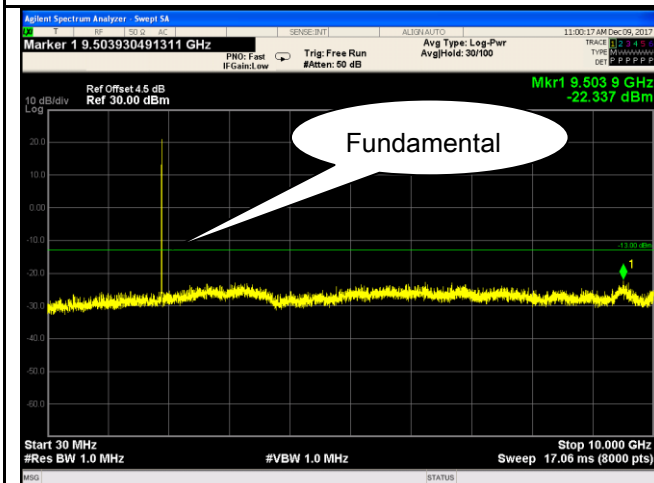
UMTS-FDD Band II (Part 24E)



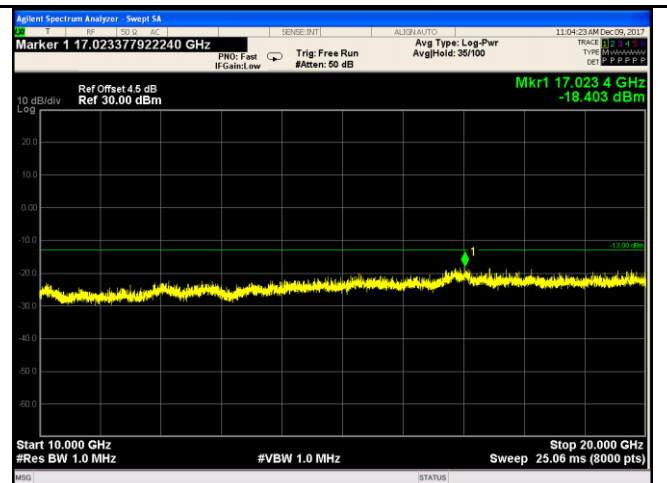
Band II - Low Channel-1



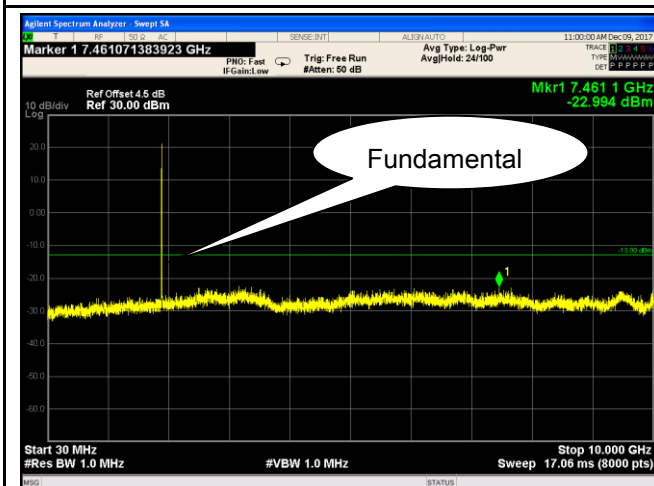
Band II - Low Channel-2



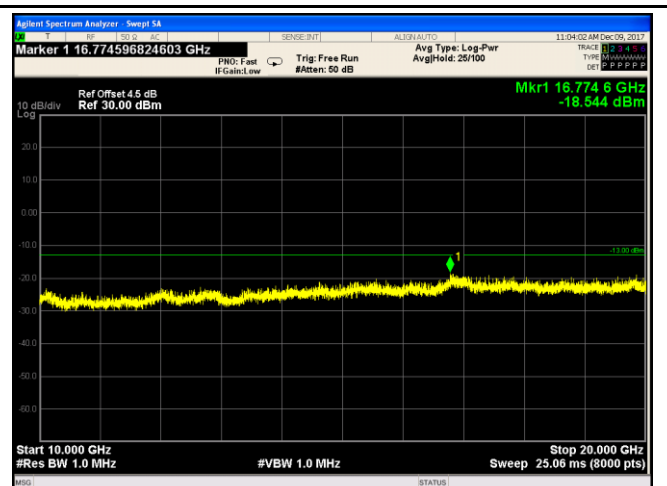
Band II - Middle Channel-1



Band II - Middle Channel-2

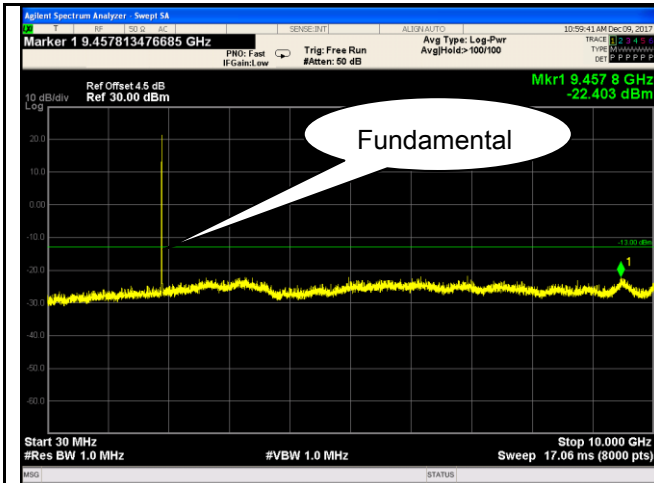


Band II - High Channel-1

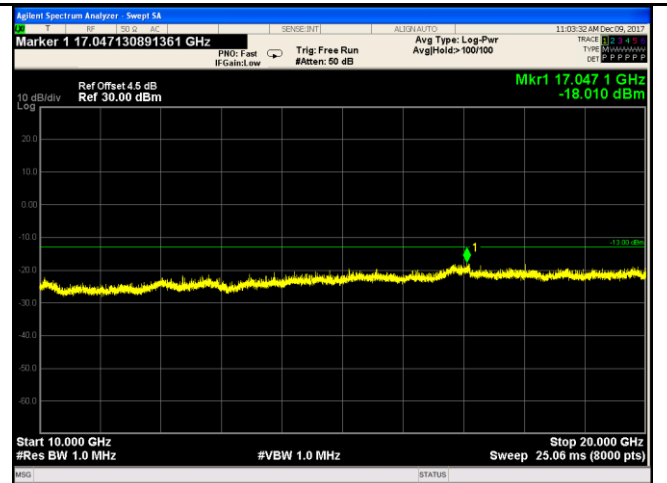


Band II - High Channel-2

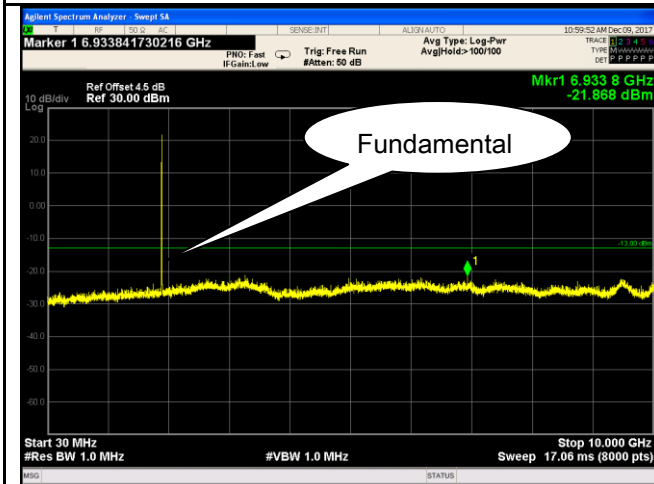
UMTS-FDD Band IV (Part 27)



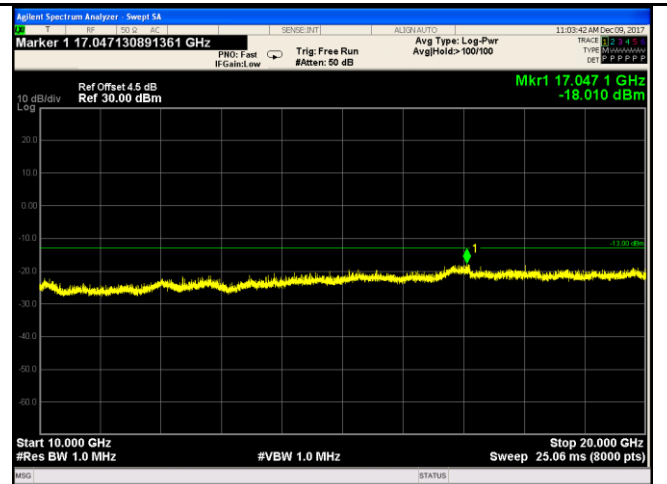
Band IV - Low Channel-1



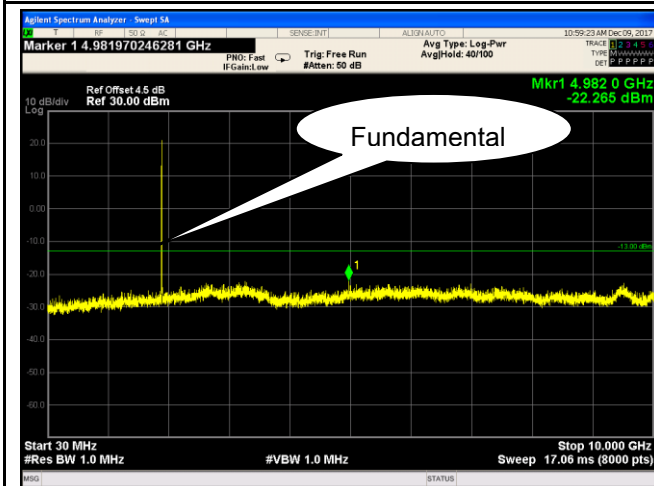
Band IV - Low Channel-2



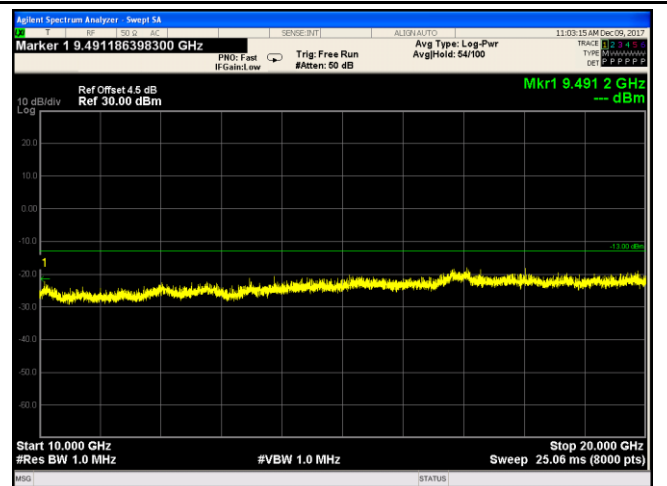
Band IV - Middle Channel-1



Band IV - Middle Channel-2



Band IV - High Channel-1



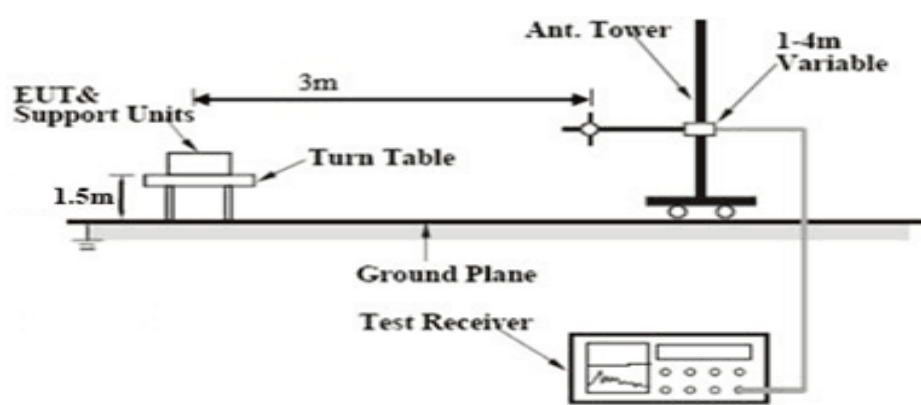
Band IV - High Channel-2

6.6 Spurious Radiated Emissions

Temperature	25 °C
Relative Humidity	56%
Atmospheric Pressure	1018mbar
Test date :	December 09, 2017
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	☒

Test setup	
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Test Procedure	- The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. - The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. - Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. Sample Calculation: EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)
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Test Report	18070843-FCC-R1
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Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A
 Test Plot ☐ Yes (See below) ☒ N/A

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-43.57	V	7.95	0.67	-36.29	-13	-23.29
1648.4	-44.83	H	7.95	0.67	-37.55	-13	-24.55
236.08	-52.94	V	5.96	0.22	-47.2	-13	-34.2
326.28	-52.85	H	6.03	0.31	-47.13	-13	-34.13

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-42.95	V	7.95	0.67	-35.67	-13	-22.67
1673.2	-43.71	H	7.95	0.67	-36.43	-13	-23.43
756.37	-52.65	V	6.42	0.33	-46.56	-13	-33.56
649.83	-53.2	H	6.14	0.34	-47.4	-13	-34.4

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-43.37	V	7.95	0.68	-36.1	-13	-23.1
1697.6	-44.47	H	7.95	0.68	-37.2	-13	-24.2
513.17	-51.74	V	6.01	0.33	-46.06	-13	-33.06
769.93	-52.28	H	6.39	0.42	-46.31	-13	-33.31

Note:

1, The testing has been conformed to $10 \times 848.8 \text{ MHz} = 8,488 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases

4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

5, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-48.9	V	10.25	1	-39.65	-13	-26.65
3700.4	-48.53	H	10.25	1	-39.28	-13	-26.28
817.3	-52.66	V	6.4	0.46	-46.72	-13	-33.72
762.55	-54.28	H	6.38	0.45	-48.35	-13	-35.35

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-48.1	V	10.25	1.01	-38.86	-13	-25.86
3760	-49.23	H	10.25	1.01	-39.99	-13	-26.99
477.43	-52.69	V	6.05	0.26	-46.9	-13	-33.9
276.17	-52.72	H	5.96	0.25	-47.01	-13	-34.01

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-48.08	V	10.36	1.02	-38.74	-13	-25.74
3819.6	-50.23	H	10.36	1.02	-40.89	-13	-27.89
521.18	-52.97	V	6.44	0.38	-46.91	-13	-33.91
552.24	-52.72	H	6.41	0.36	-46.67	-13	-33.67

Note:

1, The testing has been conformed to $10 \times 1909.8 \text{ MHz} = 19,098 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases

4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

5, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-46.41	V	7.95	0.67	-39.13	-13	-26.13
1652.8	-46.37	H	7.95	0.67	-39.09	-13	-26.09
572.42	-52.4	V	6.42	0.37	-46.35	-13	-33.35
785.54	-52.97	H	6.39	0.44	-47.02	-13	-34.02

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-46.64	V	7.95	0.67	-39.36	-13	-26.36
1670	-45.47	H	7.95	0.67	-38.19	-13	-25.19
715.36	-52.53	V	6.43	0.44	-46.54	-13	-33.54
817.14	-52.77	H	6.45	0.42	-46.74	-13	-33.74

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-46.78	V	7.95	0.68	-39.51	-13	-26.51
1693.2	-46.3	H	7.95	0.68	-39.03	-13	-26.03
610.01	-52.26	V	6.36	0.44	-46.34	-13	-33.34
305.4	-53.91	H	5.95	0.27	-48.23	-13	-35.23

Note:

1, The testing has been conformed to $10 \times 846.6 \text{ MHz} = 8,466 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases

4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

5, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-50.22	V	10.25	1	-40.97	-13	-27.97
3704.8	-48.83	H	10.25	1	-39.58	-13	-26.58
568.29	-53.23	V	6.44	0.37	-47.16	-13	-34.16
314.56	-53.91	H	5.96	0.22	-48.17	-13	-35.17

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.65	V	10.25	1.01	-40.41	-13	-27.41
3760	-50.23	H	10.25	1.01	-40.99	-13	-27.99
837.04	-52.92	V	6.39	0.42	-46.95	-13	-33.95
581.15	-52.74	H	6.42	0.33	-46.65	-13	-33.65

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-49.51	V	10.36	1.02	-40.17	-13	-27.17
3815.2	-49.67	H	10.36	1.02	-40.33	-13	-27.33
383.57	-52.98	V	6.03	0.28	-47.23	-13	-34.23
200.21	-54.58	H	5.96	0.25	-48.87	-13	-35.87

Note:

1, The testing has been conformed to $10 \times 1907.6 \text{ MHz} = 19,076 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases

4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case

5, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

UMTS-FDD Band IV (Part 27)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3424.8	-42.69	V	10.07	0.96	-33.58	-13	-20.58
3424.8	-44.4	H	10.07	0.96	-35.29	-13	-22.29
210.51	-52.58	V	5.97	0.27	-46.88	-13	-33.88
536.62	-52.38	H	6.05	0.36	-46.69	-13	-33.69

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-43.67	V	10.09	0.96	-34.54	-13	-21.54
3480	-43.08	H	10.09	0.96	-33.95	-13	-20.95
407.2	-52.9	V	6.11	0.31	-47.1	-13	-34.1
305.03	-52.88	H	5.96	0.28	-47.2	-13	-34.2

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-43.38	V	10.09	0.97	-34.26	-13	-21.26
3505.2	-44.3	H	10.09	0.97	-35.18	-13	-22.18
764.24	-52.34	V	6.34	0.43	-46.43	-13	-33.43
495.36	-52.06	H	6.09	0.33	-46.3	-13	-33.3

Note:

1, The testing has been conformed to $10 \times 1752.6 \text{ MHz} = 17,526 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases.

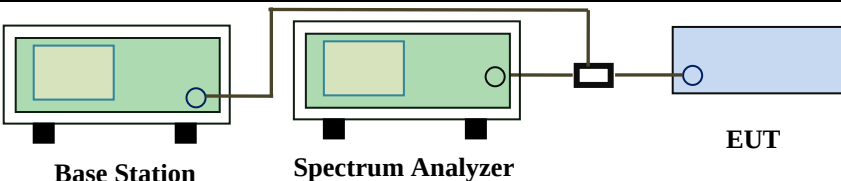
4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

5, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

6.7 Band Edge

Temperature	25 °C
Relative Humidity	56%
Atmospheric Pressure	1018mbar
Test date :	December 09, 2017
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.	☒
Test setup	 Base Station Spectrum Analyzer EUT		
Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.		
Remark			
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

GSM Voice:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.995	-14.683	-13
849.0025	-17.958	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-17.046	-13
1910.0225	-15.105	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-17.669	-13
849.0225	-17.131	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-16.379	-13
1910.005	-16.330	-13

EGPRS (MCS1):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-15.28	-13
849.015	-18.67	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-19.56	-13
1910.02	-17.61	-13

RCM:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.125	-21.715	-13
850.125	-28.743	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.175	-23.802	-13
1910.05	-27.707	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1708.775	-25.090	-13
1755.275	-22.193	-13

HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.025	-21.366	-13
850.05	-27.876	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.2	-23.680	-13
1910.05	-27.215	-27.66

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.875	-26.113	-13
1756	-22.679	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.1	-20.248	-13
849.85	-28.941	-13

UMTS-FDD Band II (Part 24E)

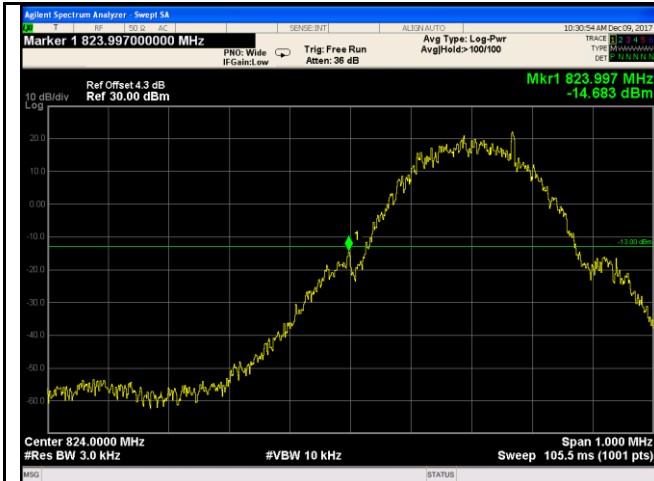
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.125	-24.935	-13
1910.05	-26.584	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.075	-26.304	-13
1755.1	-23.921	-13

GSM Voice:

Test Plots



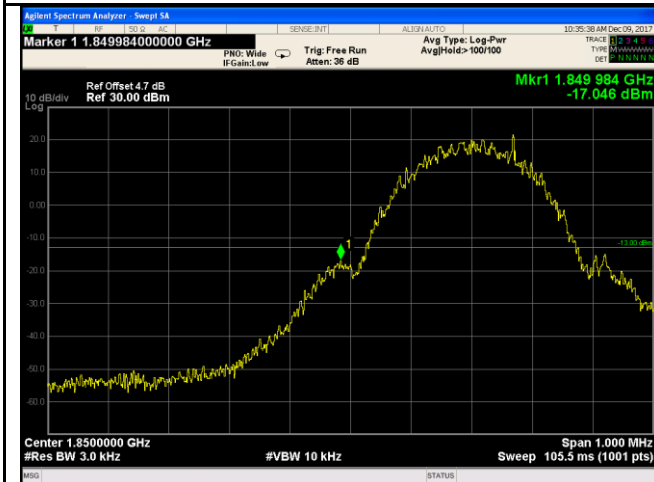
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.18/3)=4.0+0.3=4.3dB



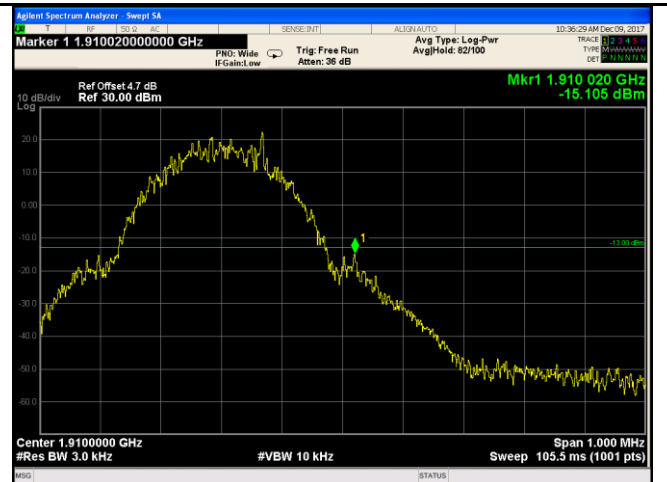
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.18/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.11/3)=4.5+0.2=4.7dB

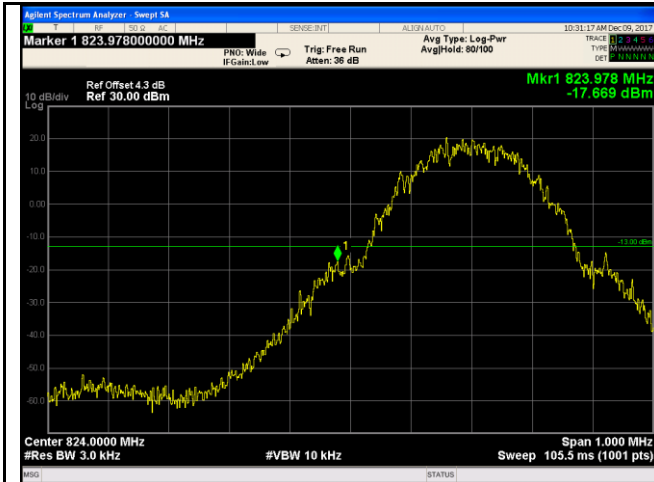


PCS Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.13/3)=4.5+0.2=4.7dB

GPRS:

Test Plots



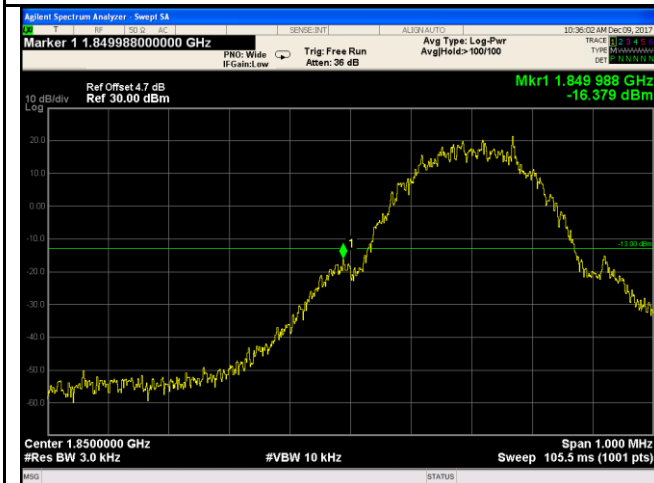
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(3.21/3)=4.0+0.3=4.3dB



Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log
(3.18/3)=4.0+0.3=4.3dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(3.17/3)=4.5+0.2=4.7dB

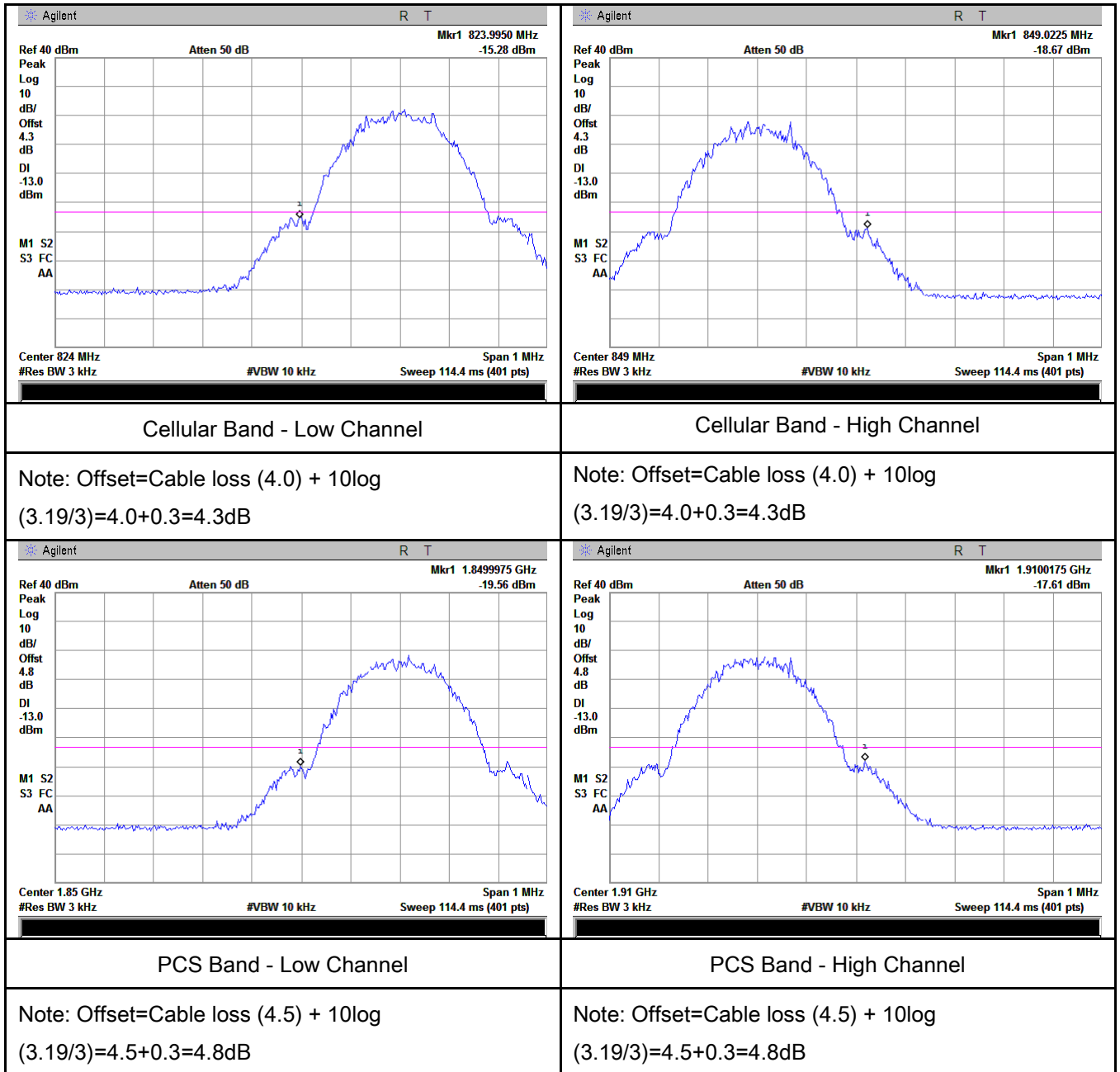


PCS Band - High Channel

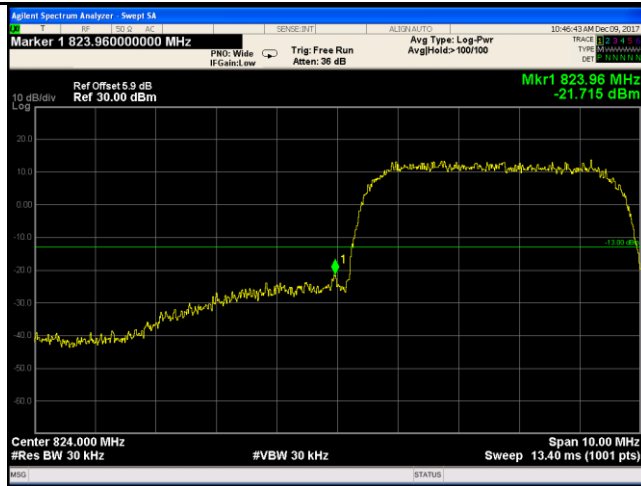
Note: Offset=Cable loss (4.5) + 10log
(3.10/3)=4.5+0.2=4.7dB

EGPRS (MCS1):

Test Plots

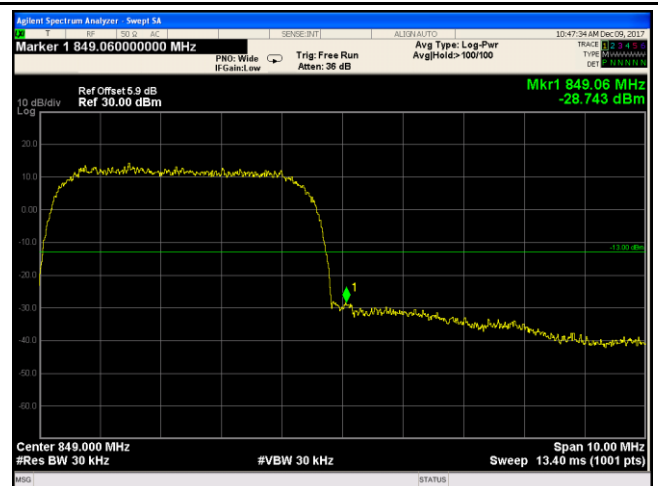


RMC:



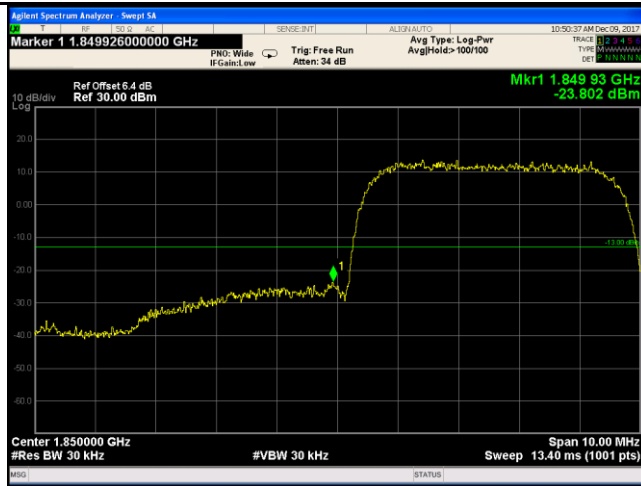
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(47.00/30)=4.0+1.9=5.9dB



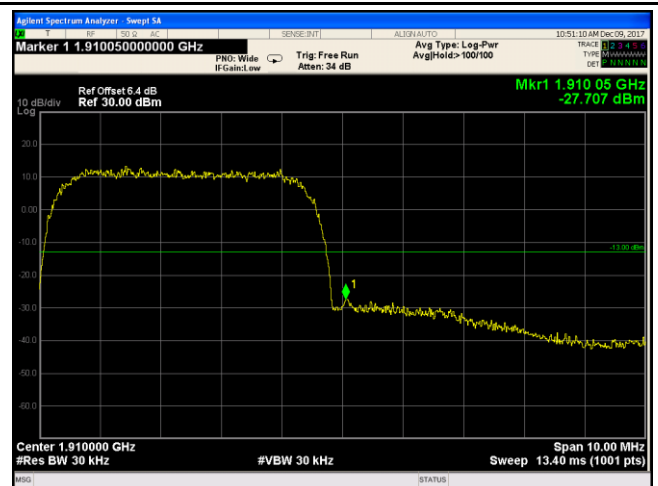
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
(46.73/30)=4.0+1.9=5.9dB



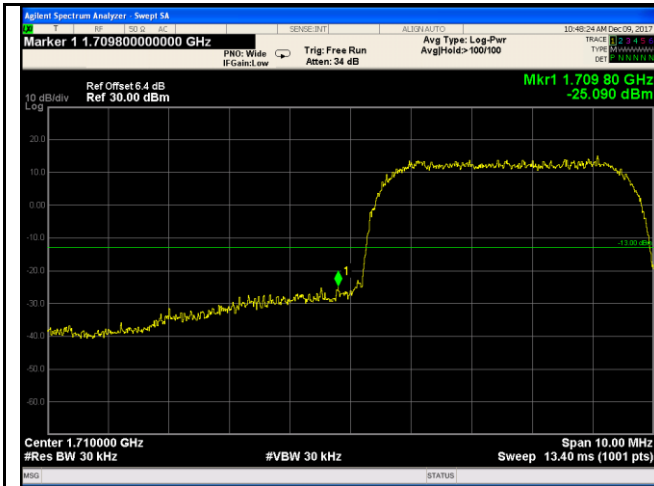
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(47.00/30)=4.5+1.9=6.4dB



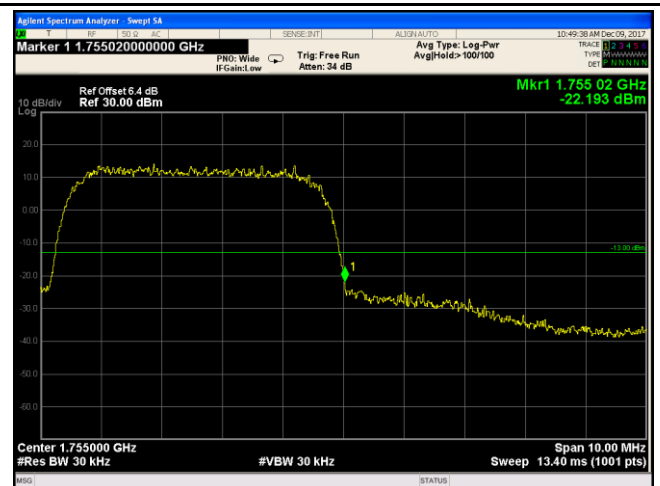
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(46.91/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - Low Channel

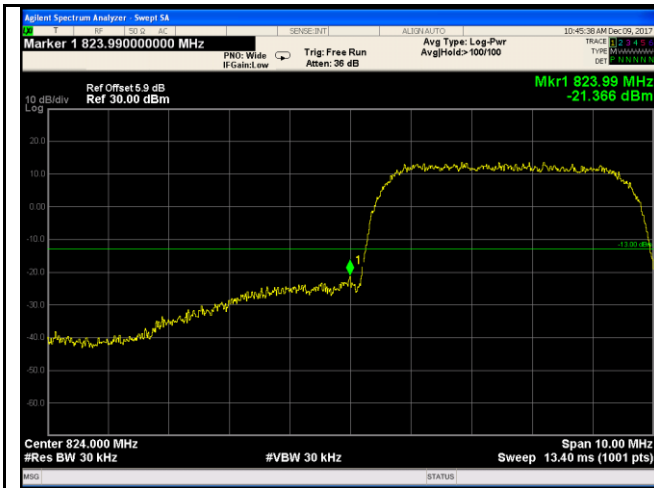
Note: Offset=Cable loss (4.5) + 10log
(46.77/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - High Channel

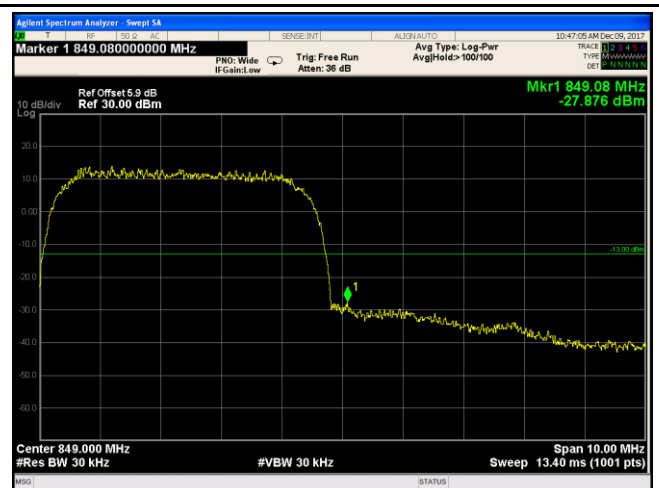
Note: Offset=Cable loss (4.0) + 10log
(47.08/30)=4.5+1.9=6.4dB

HSUPA:



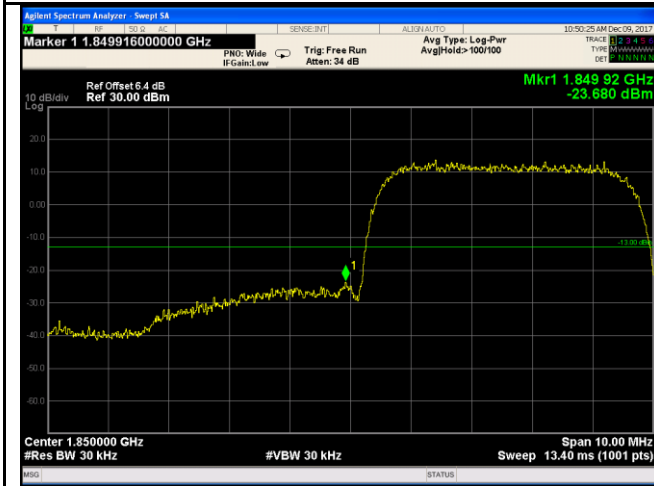
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(46.95/30)=4.0+1.9=5.9dB



UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
(46.62/30)=4.0+1.9=5.9dB



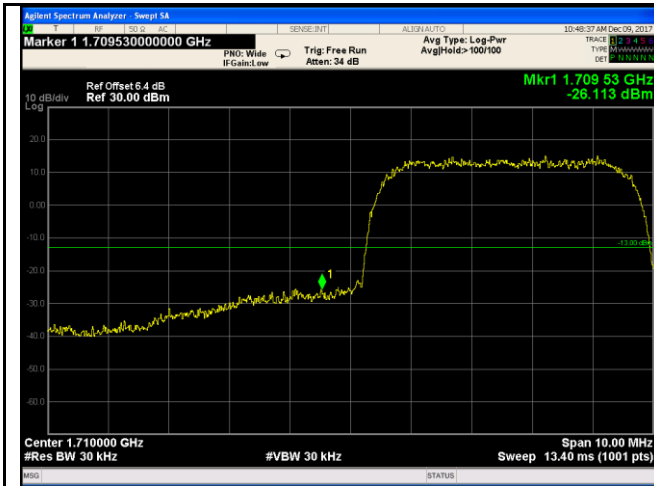
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(46.86/30)=4.5+1.9=6.4dB



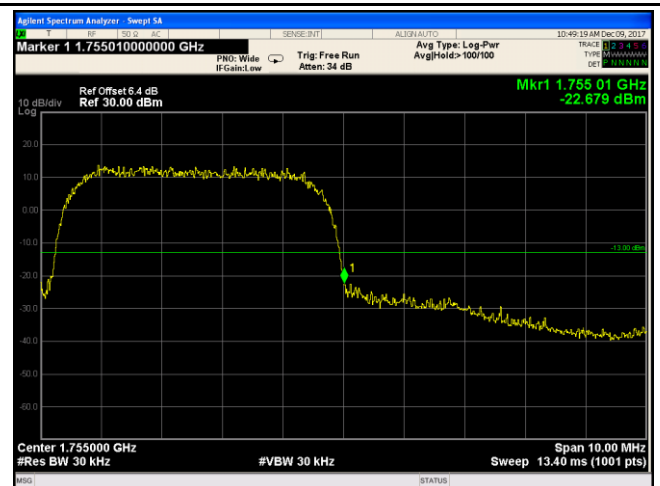
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(46.69/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - Low Channel

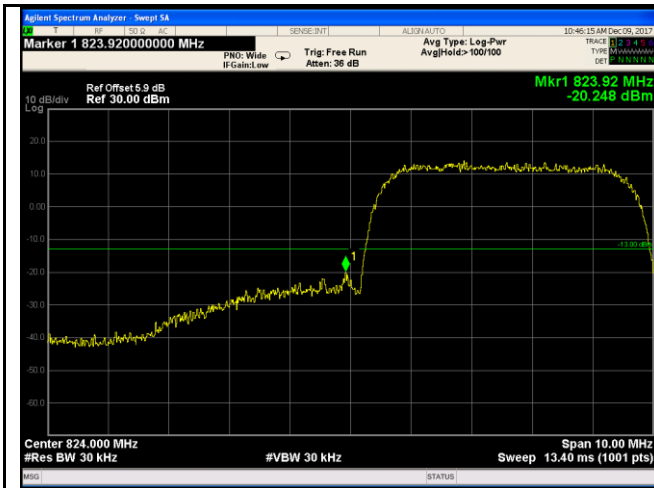
Note: Offset=Cable loss (4.5) + 10log
(46.73/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - High Channel

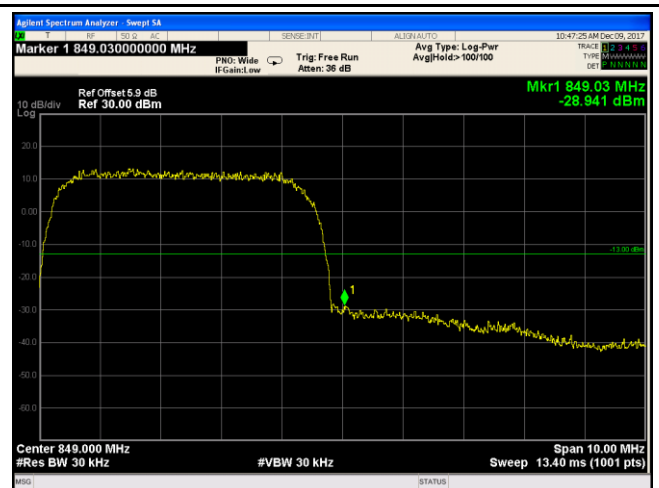
Note: Offset=Cable loss (4.5) + 10log
(47.09/30)=4.5+1.9=6.4dB

HSDPA:



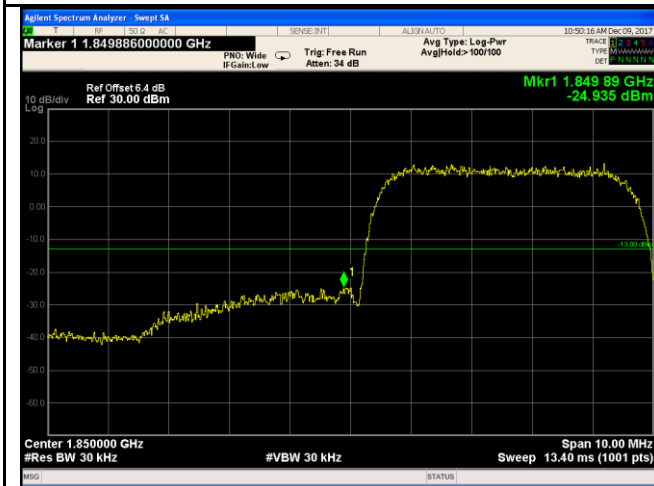
UMTS-FDD Band V - Low Channel

Note: Offset=Cable loss (4.0) + 10log
(46.93/30)=4.0+1.9=5.9dB



UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log
(46.82/30)=4.0+1.9=5.9dB



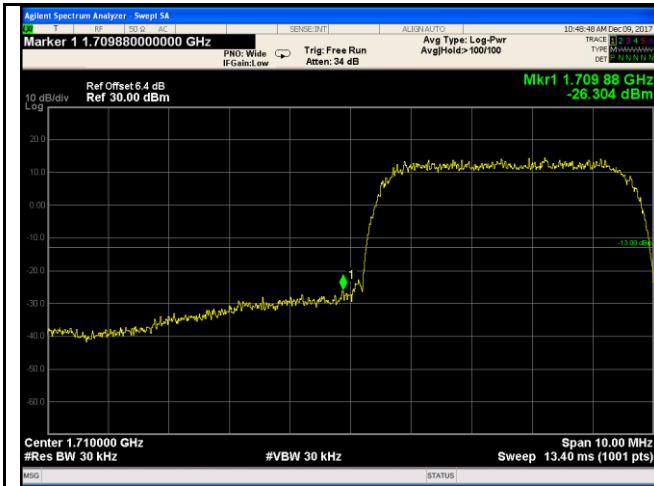
UMTS-FDD Band II - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(46.86/30)=4.5+1.9=6.4dB



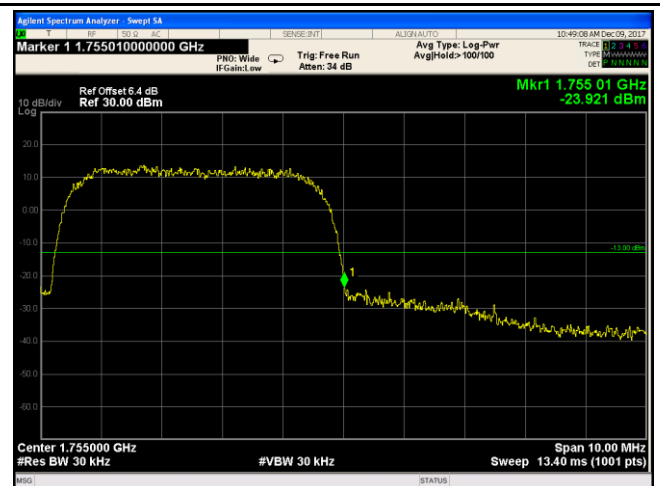
UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log
(46.97/30)=4.5+1.9=6.4dB



UMTS-FDD Band IV - Low Channel

Note: Offset=Cable loss (4.5) + 10log
(46.80/30)=4.5+1.9=6.4dB



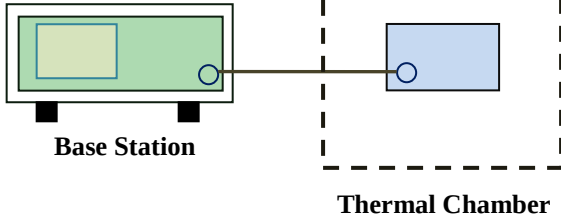
UMTS-FDD Band IV - High Channel

Note: Offset=Cable loss (4.5) + 10log
(47.04/30)=4.5+1.9=6.4dB

6.8 Frequency Stability

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	December 12, 2017
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable																																
§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54	a)	According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below: Frequency Tolerance for Transmitters in the Public Mobile Services <table border="1"> <thead> <tr> <th>Frequency Range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th></tr> </thead> <tbody> <tr> <td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr> <tr> <td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr> <tr> <td>450 to 512</td><td>2.5</td><td>5.0</td><td>50.0</td></tr> <tr> <td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr> <tr> <td>928 to 960</td><td>5.0</td><td>N/A</td><td>N/A</td></tr> <tr> <td>929 to 960</td><td>1.5</td><td>N/A</td><td>N/A</td></tr> <tr> <td>2110 to 2220</td><td>10.0</td><td>N/A</td><td>N/A</td></tr> </tbody> </table> According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.	Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	450 to 512	2.5	5.0	50.0	821 to 896	1.5	2.5	2.5	928 to 960	5.0	N/A	N/A	929 to 960	1.5	N/A	N/A	2110 to 2220	10.0	N/A	N/A	
Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)																																
25 to 50	20.0	20.0	50.0																																
50 to 450	5.0	5.0	50.0																																
450 to 512	2.5	5.0	50.0																																
821 to 896	1.5	2.5	2.5																																
928 to 960	5.0	N/A	N/A																																
929 to 960	1.5	N/A	N/A																																
2110 to 2220	10.0	N/A	N/A																																
Test setup	 Base Station Thermal Chamber																																		

Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

GSM Voice:

Cellular Band (Part 22H) result

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	22	0.0263	2.5
0		18	0.0215	2.5
10		17	0.0203	2.5
20		14	0.0167	2.5
30		13	0.0155	2.5
40		16	0.0191	2.5
50		18	0.0215	2.5
55		17	0.0203	2.5
25	4.2	20	0.0239	2.5
	3.5	19	0.0227	2.5

PCS Band (Part 24E) result

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	22	0.0117	2.5
0		18	0.0096	2.5
10		16	0.0085	2.5
20		16	0.0085	2.5
30		16	0.0085	2.5
40		16	0.0085	2.5
50		22	0.0117	2.5
55		17	0.0090	2.5
25	4.2	18	0.0096	2.5
	3.5	17	0.0090	2.5

RMC:

UMTS-FDD Band V (Part 22H)

Middle Channel, $f_0 = 835$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	19	0.0228	2.5
0		14	0.0168	2.5
10		16	0.0192	2.5
20		15	0.0180	2.5
30		15	0.0180	2.5
40		17	0.0204	2.5
50		22	0.0263	2.5
55		18	0.0216	2.5
25	4.2	18	0.0216	2.5
	3.5	17	0.0204	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	18	0.0096	2.5
0		16	0.0085	2.5
10		14	0.0074	2.5
20		14	0.0074	2.5
30		14	0.0074	2.5
40		16	0.0085	2.5
50		22	0.0117	2.5
55		21	0.0112	2.5
25	4.2	20	0.0106	2.5
	3.5	16	0.0085	2.5

UMTS-FDD Band IV (Part 27)

Middle Channel, $f_0 = 1733$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	21	0.0251	2.5
0		16	0.0192	2.5
10		15	0.0180	2.5
20		14	0.0168	2.5
30		17	0.0204	2.5
40		15	0.0180	2.5
50		18	0.0216	2.5
55		17	0.0204	2.5
25	4.2	19	0.0228	2.5
	3.5	18	0.0216	2.5

Annex A. TEST INSTRUMENT

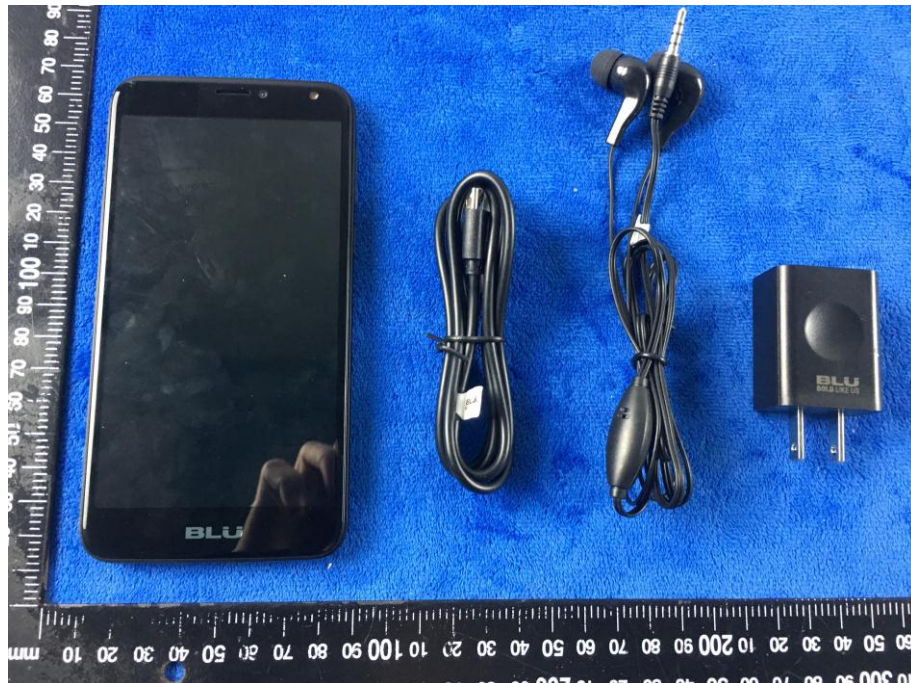
Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/14/2017	09/13/2018	☒
Power Splitter	1#	1#	08/30/2017	08/29/2018	☒
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	☒
Temperature/Humidity Chamber	UHL-270	001	10/07/2017	10/06/2018	☒
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	☒
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/15/2017	09/14/2018	☒
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	☒
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	☒
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	☒
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	☒
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	☒
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/19/2017	09/18/2018	☒
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/22/2017	09/21/2018	☒
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	☒
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/15/2017	09/14/2018	☒
Power Amplifier	SMC150D	R1553-0313	03/08/2017	03/07/2018	☒
Power Amplifier	S41-25D	R1553-0314	05/26/2017	05/25/2018	☒

Tunable Notch Filter	3NF-800/1000-S	AA4	08/30/2017	08/29/2018	☒
Tunable Notch Filter	3NF-1000/2000-S	AM 4	08/30/2017	08/29/2018	☒

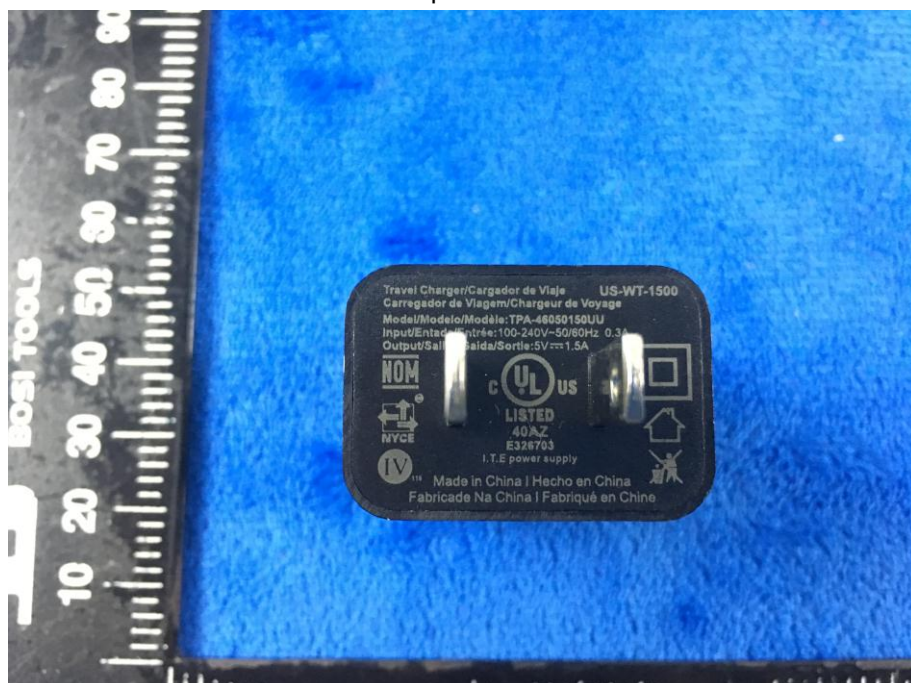
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter View



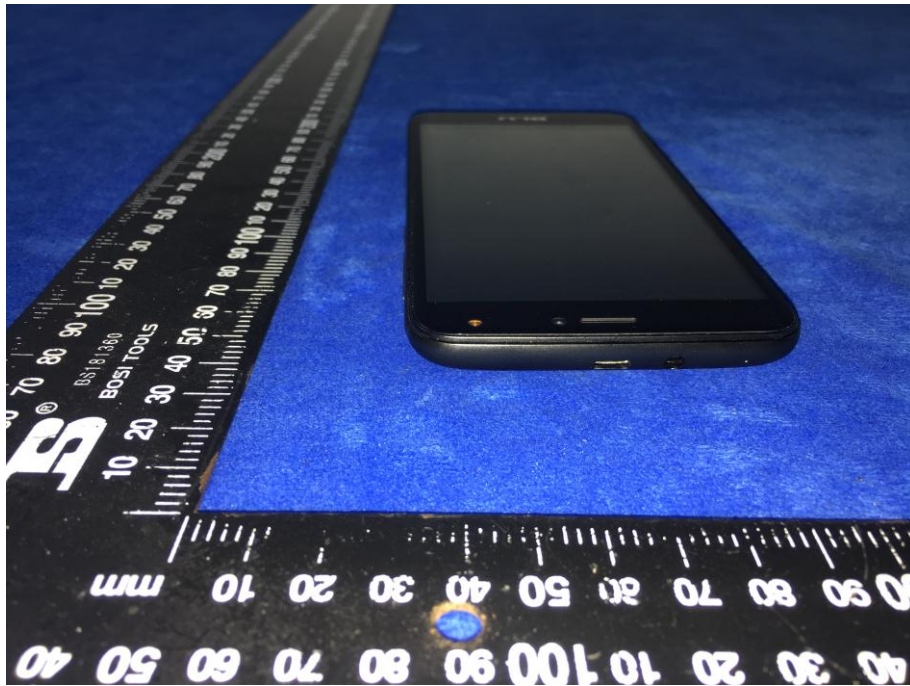
EUT - Front View



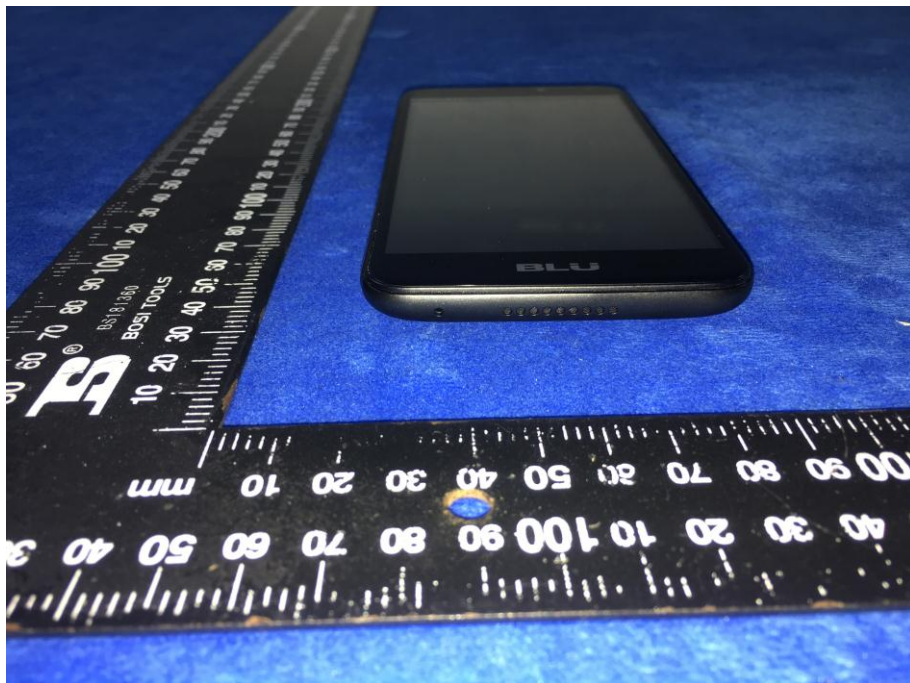
EUT - Rear View



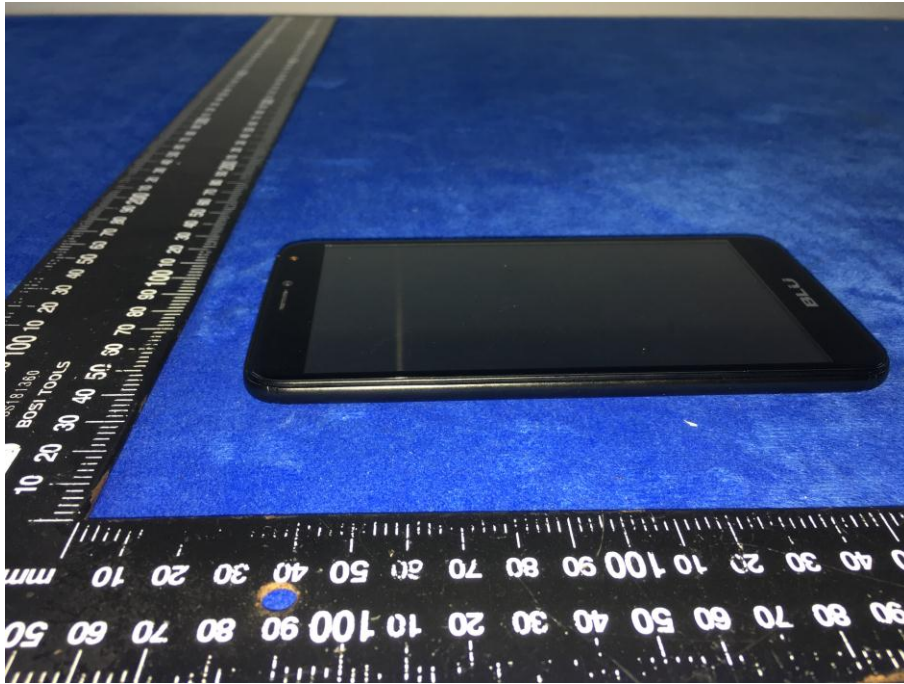
EUT - Top View



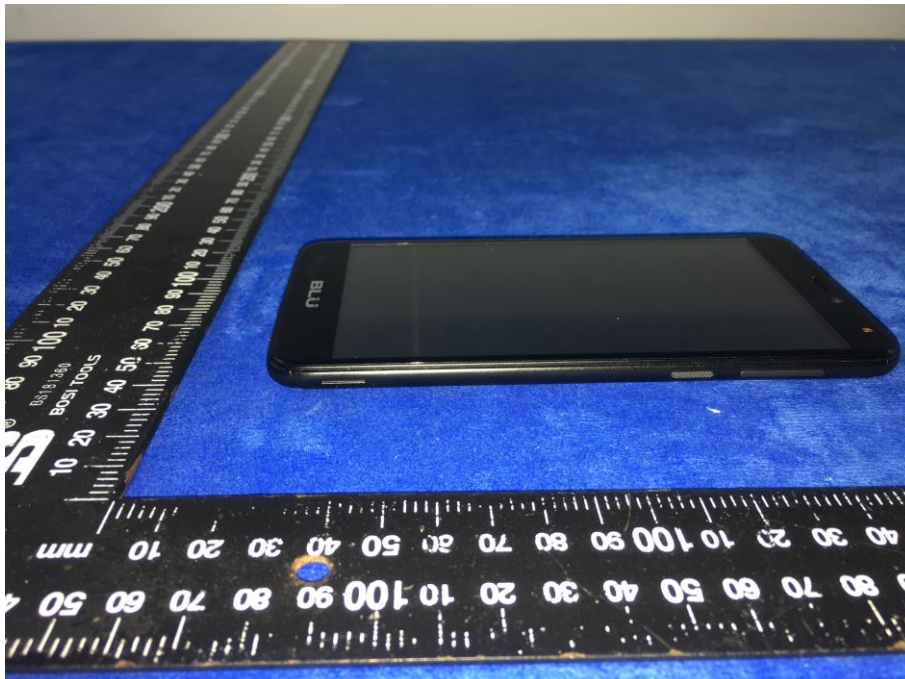
EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

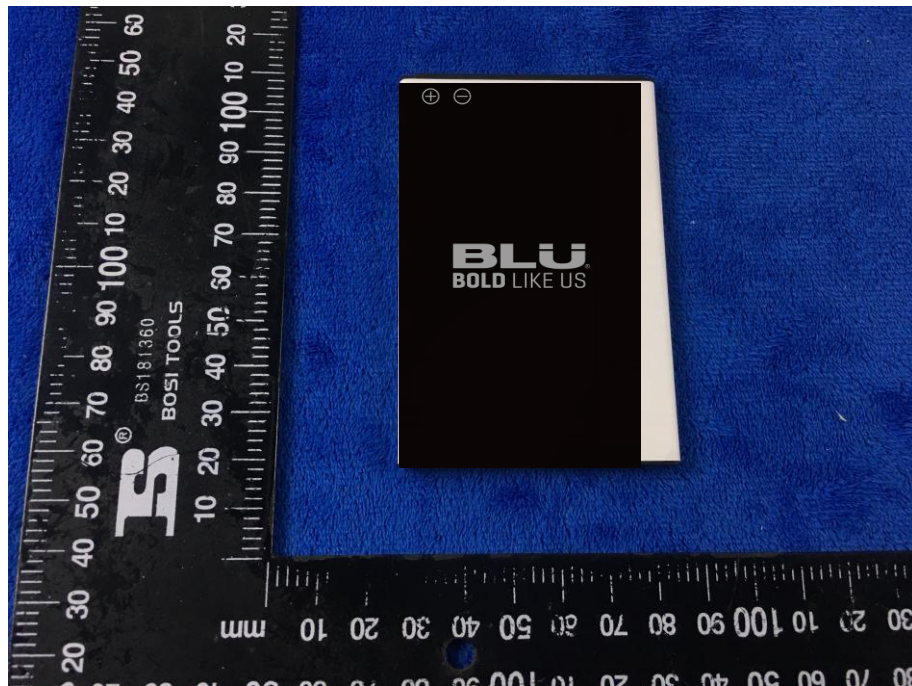
Cover Off - Top View 1



Cover Off - Top View 2



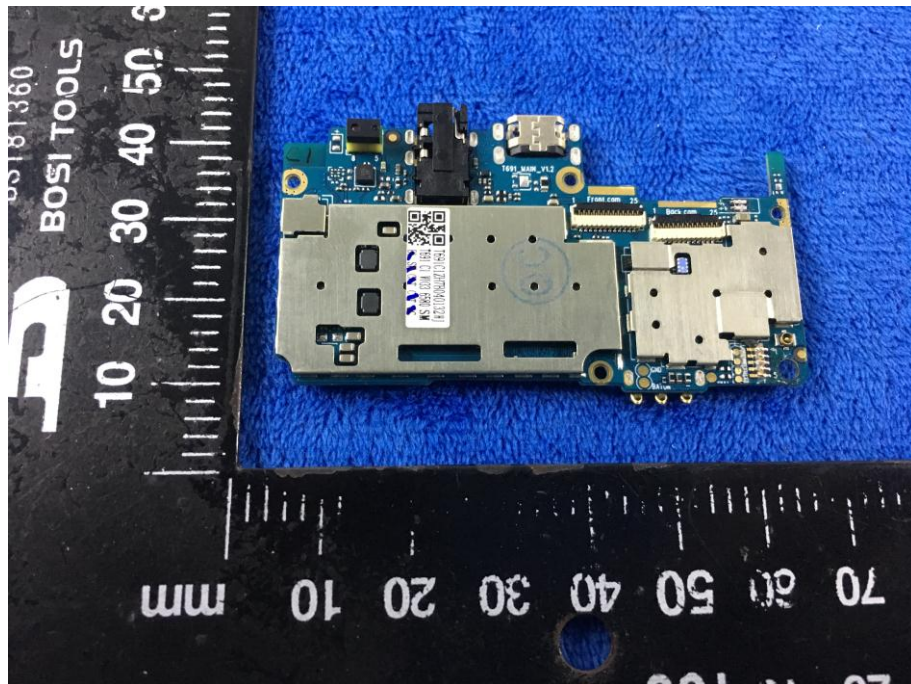
Battery - Front View



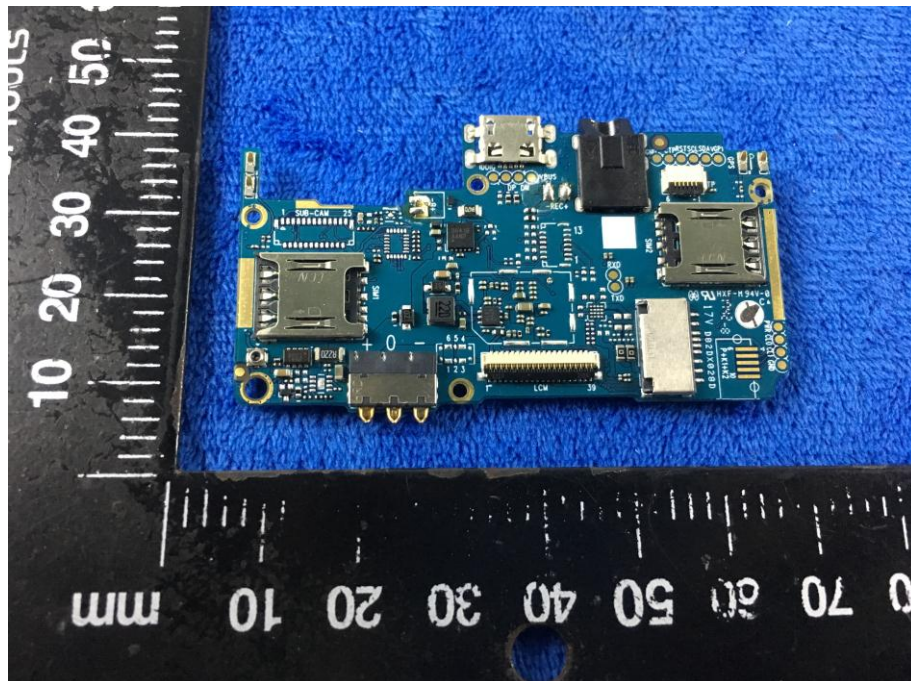
Battery - Rear View



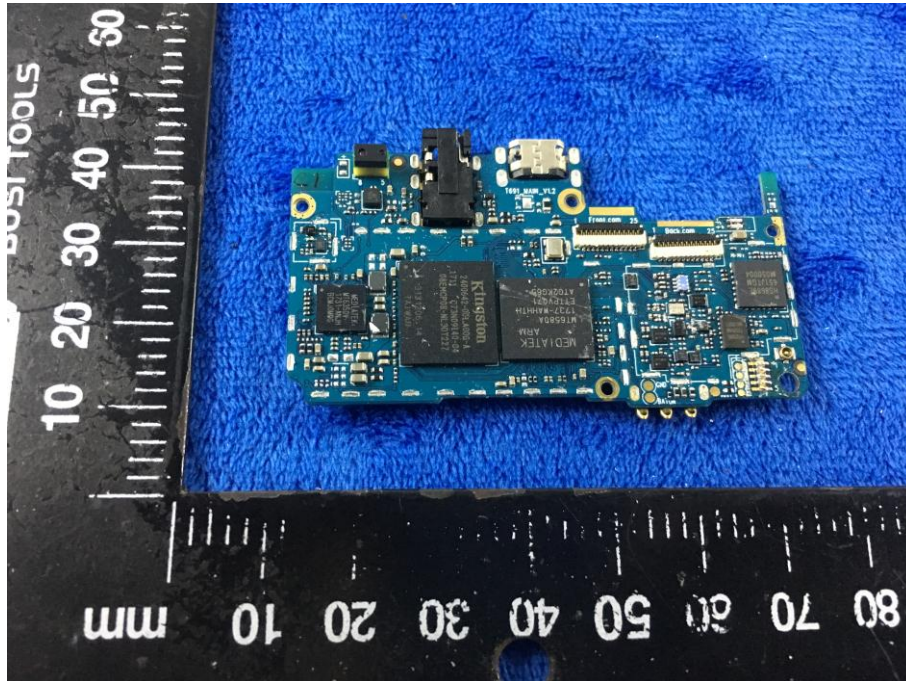
Mainboard with Shielding – Front View



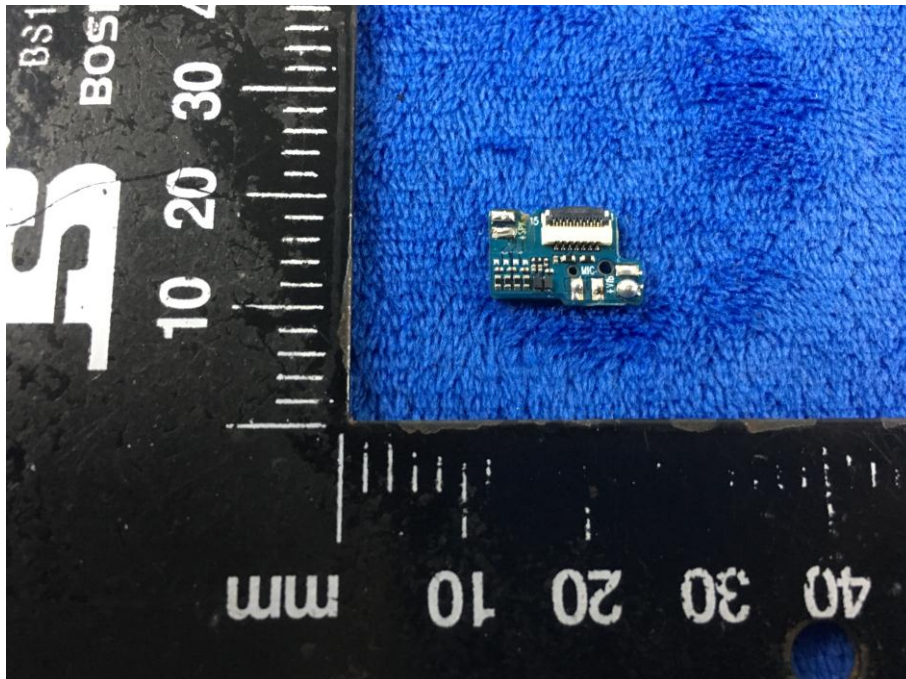
Mainboard with Shielding – Rear View



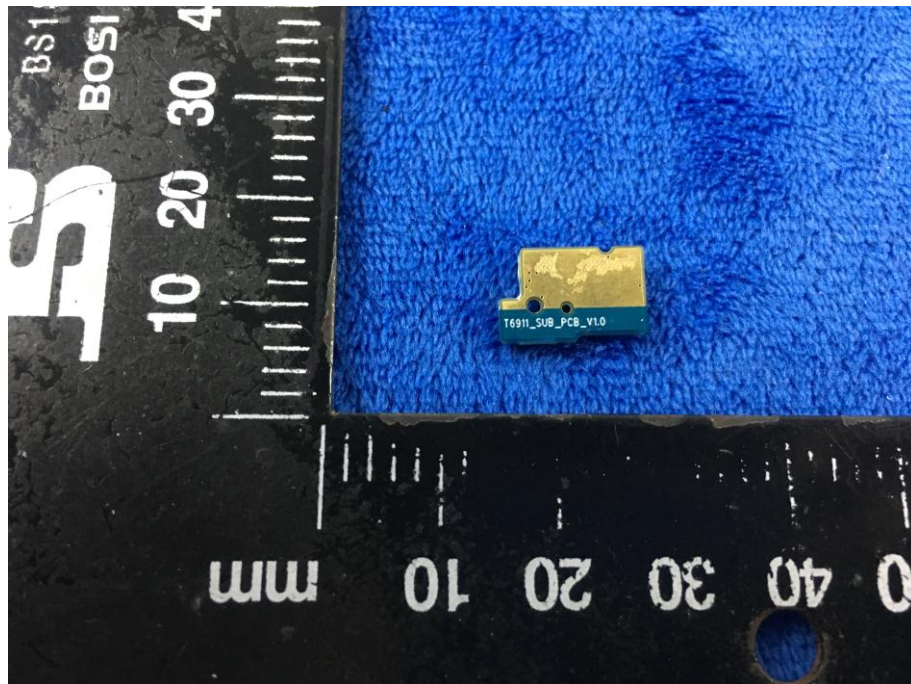
Mainboard without Shielding – Rear View



Small Mainboard – Front View



Small Mainboard – Rear View



LCD – Front View



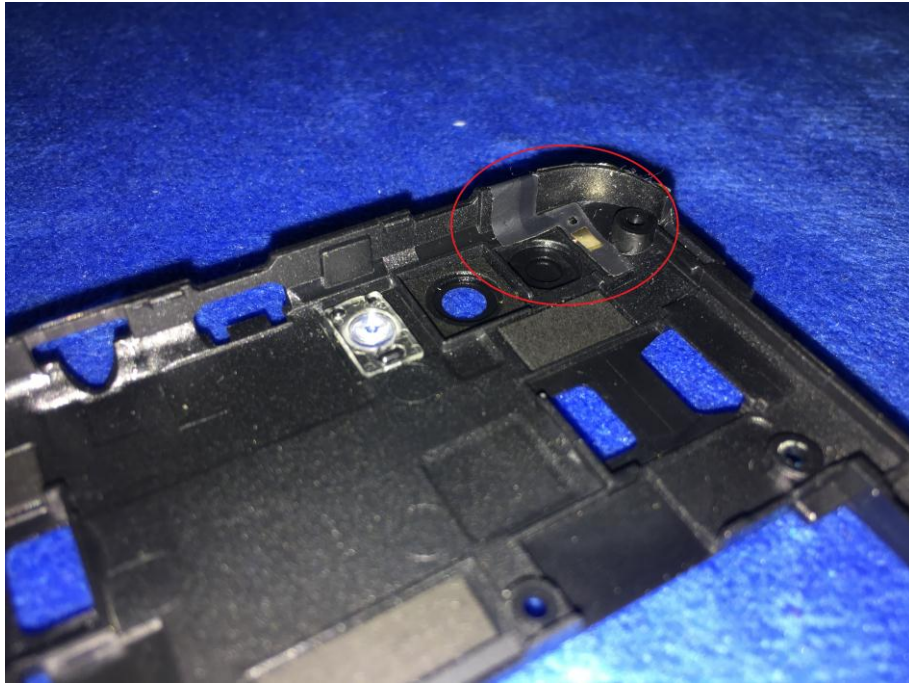
LCD – Rear View



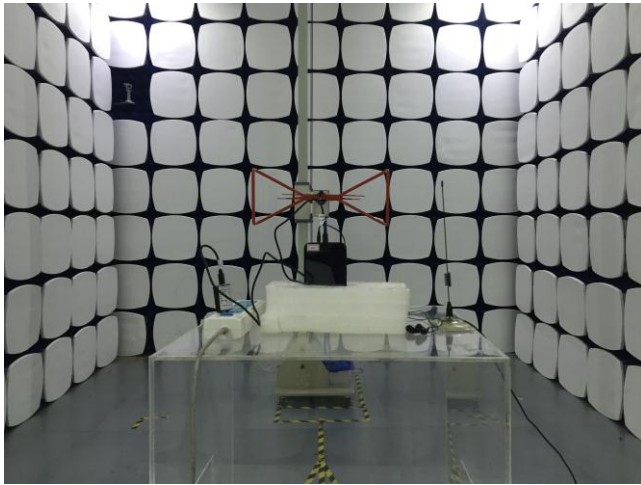
GSM/PCS/UMTS-FDD - Antenna View



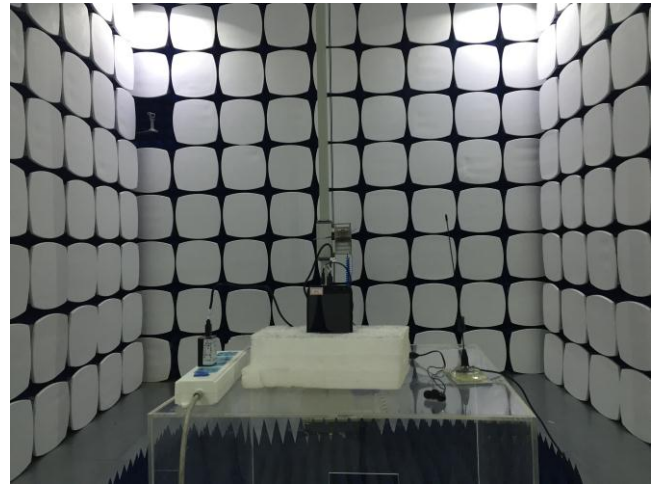
WIFI/BT/BLE/GPS - Antenna View



Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz

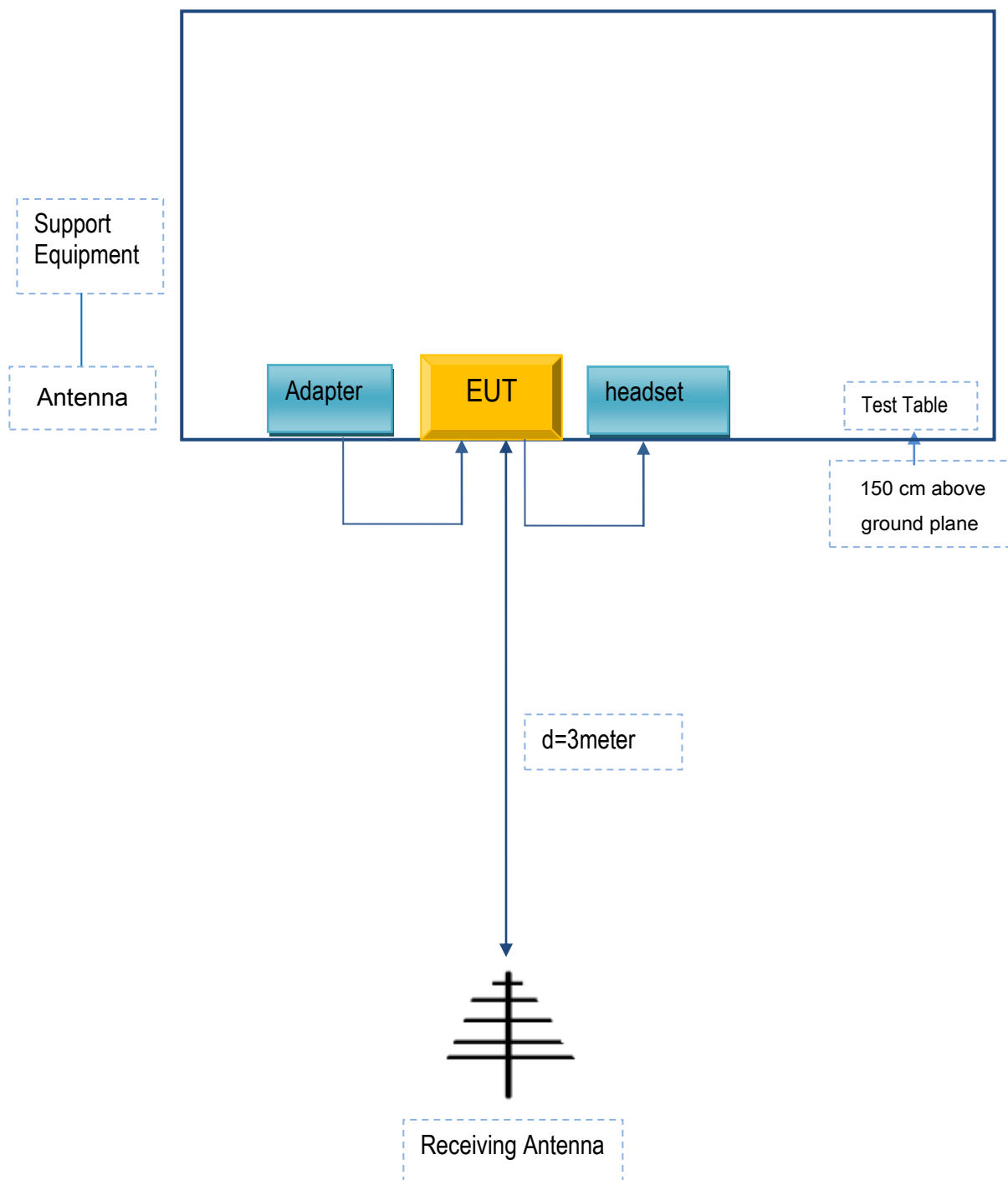


Radiated Spurious Emissions Test Setup Above
1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
BLU Products, Inc.	Adapter	TPA-46050150UU	N/A
BLU Products, Inc.	headset	HORIZON R2	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A

Annex C.ii. EUT OPERATING CONKITIONS

N/A

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

BLU Products, Inc.

To: SIEMIC, 775 Montague Expressway, Milpitas, CA95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we'd like to shift the main and serial model numbers in the reports, No.17071301, as following:

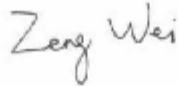
Main Model No.: C6

Serial Model No.: STUDIO J7

And we'd like to use all the former data in the reports of 17071301.

We declare that each of the model's PCB, antenna and appearance shape, accessories are the same. The difference between the two is model name only.

Thank you!



Signature:

Printed name/title: Zeng wei

Address: Address: 10814 NW 33rd St # 100 Doral, FL 33172