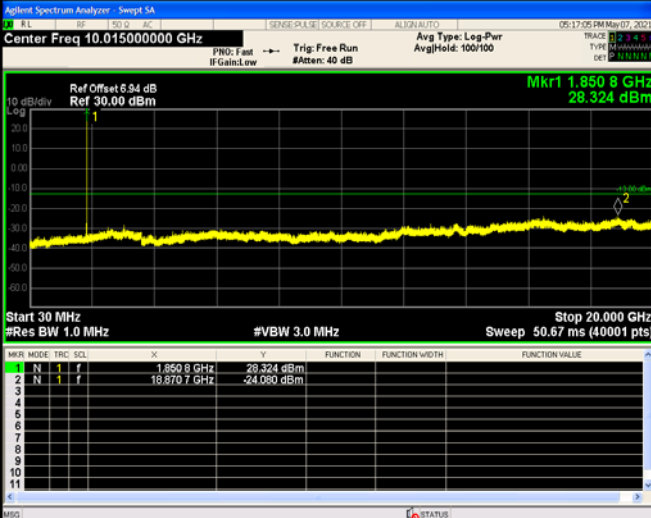
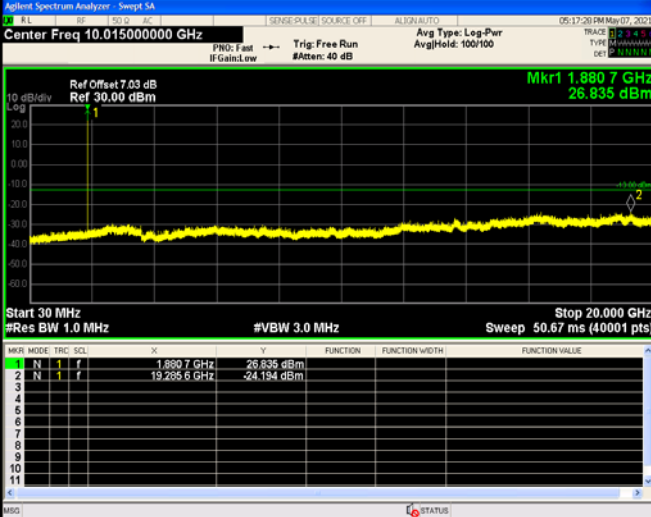
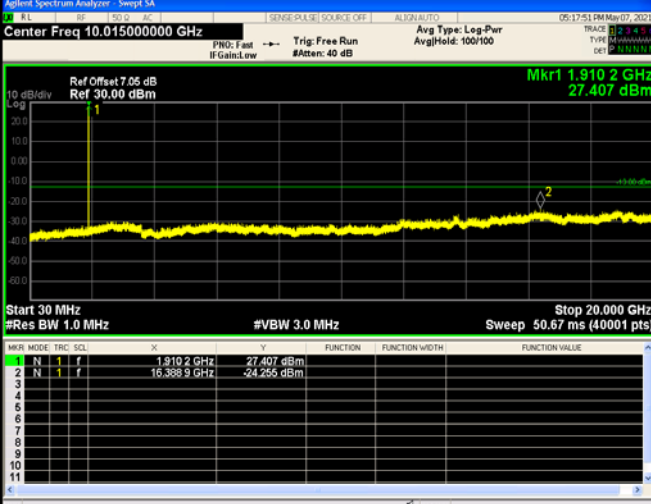
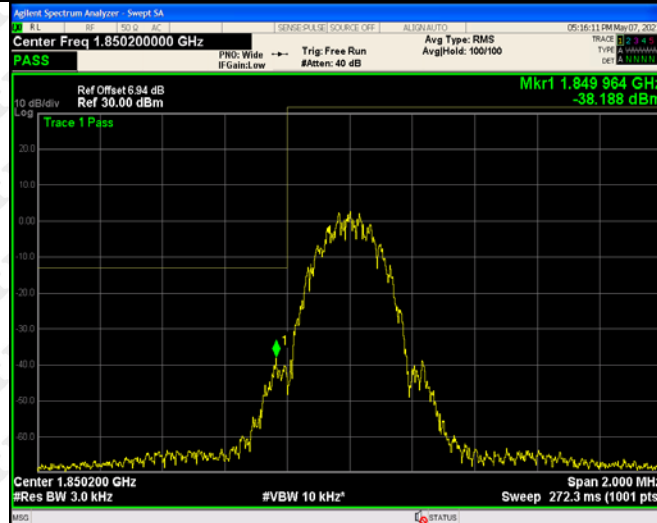
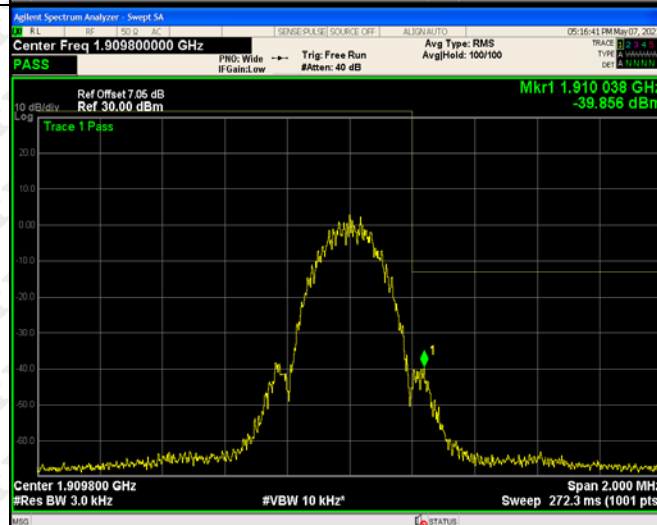


EDGE Low Channel		
EDGE Middle Channel		
EDGE High Channel		

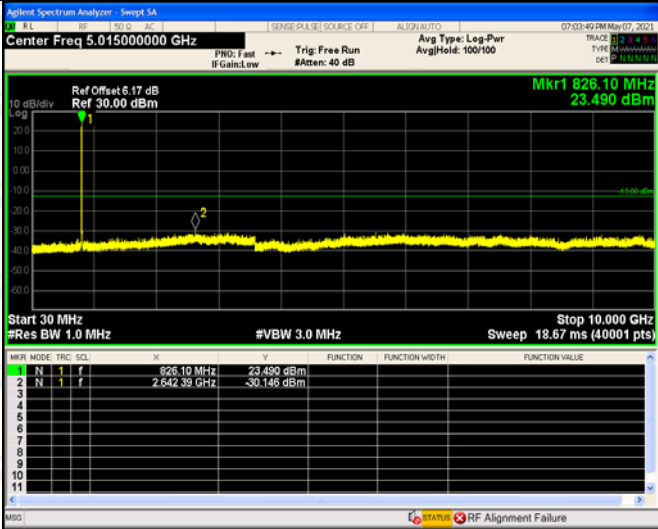
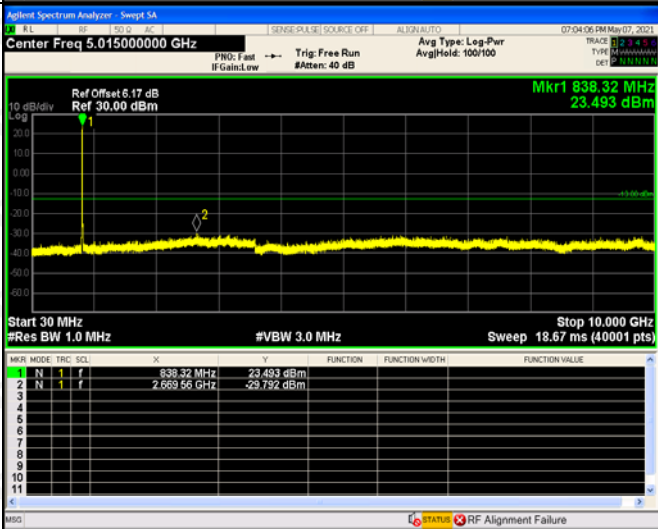
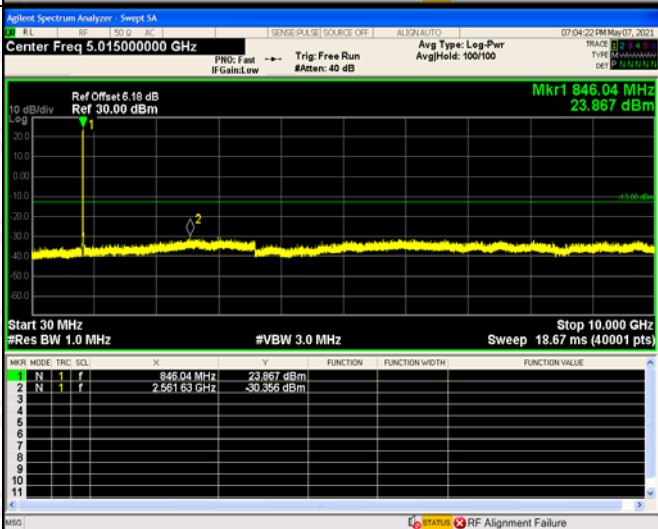
EDGE
Low
Band
Emission



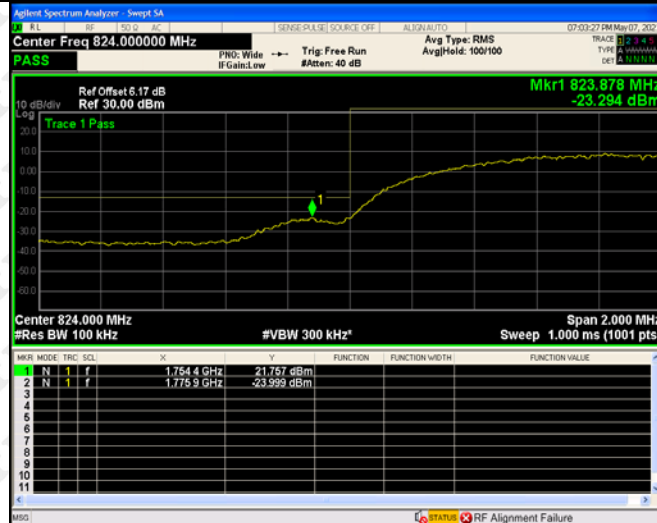
EDGE
High
Band
Emission



For Band V

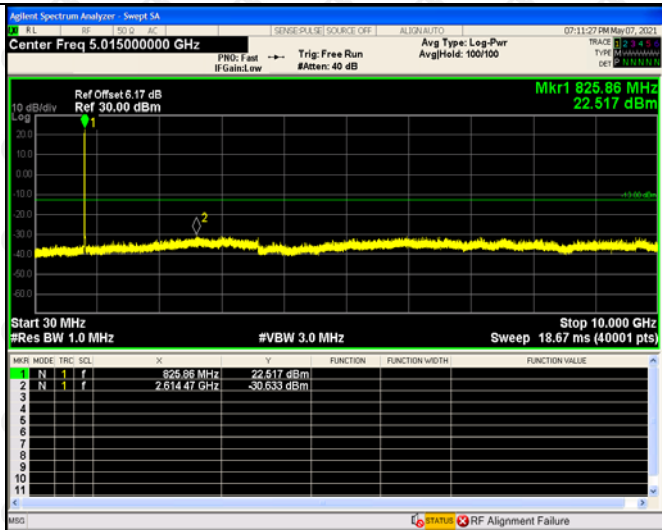
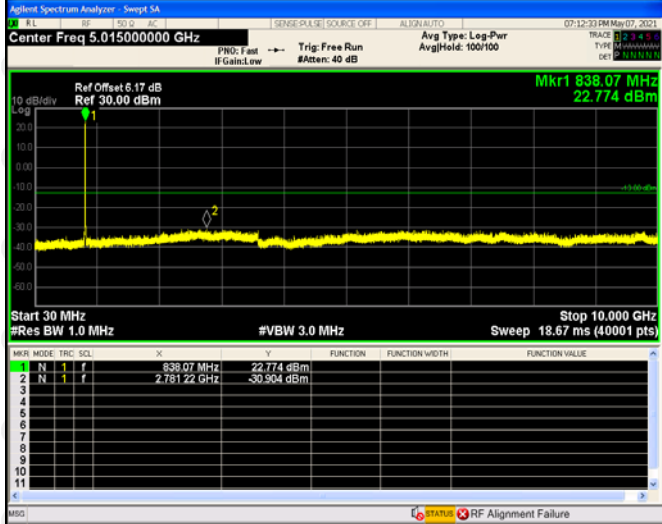
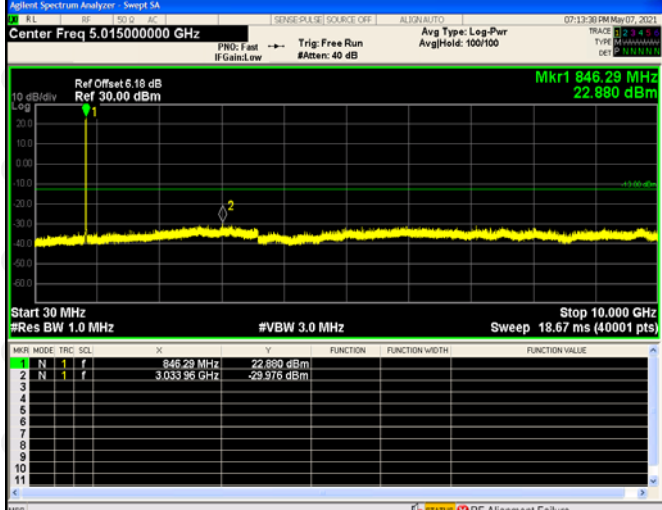
WCDMA Low Channel		
WCDMA Middle Channel		
WCDMA High Channel		

WCDMA
Low
Band
Spurious
Emission

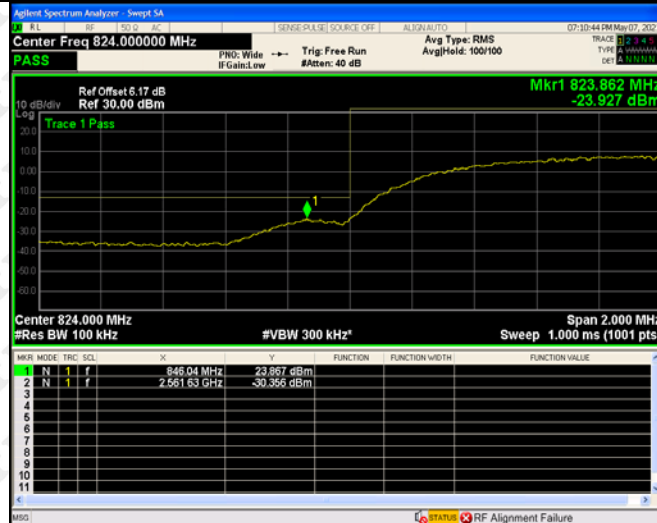


WCDMA
High
Band
Spurious
Emission



HSDPA Low Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset 5.17 dB Ref 30.00 dBm Mkr1 825.86 MHz 22.517 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz STATUS RF Alignment Failure
HSDPA Middle Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset 5.17 dB Ref 30.00 dBm Mkr1 838.07 MHz 22.774 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz STATUS RF Alignment Failure
HSDPA High Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset 5.18 dB Ref 30.00 dBm Mkr1 846.29 MHz 22.880 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz STATUS RF Alignment Failure

HSDPA
Low
Band
Spurious
Emission

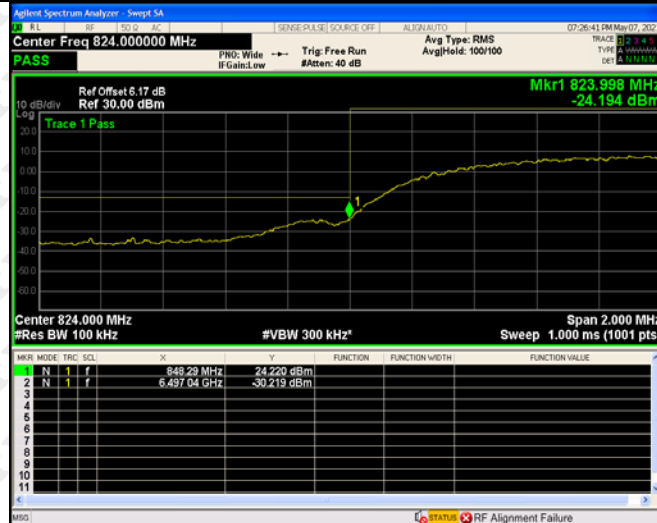


HSDPA
High
Band
Spurious
Emission



HSUPA Low Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.17 dB Ref 30.00 dBm Mkr1 826.10 MHz 22.476 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MARK</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>826.10 MHz</td><td>22.476 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.200 69 GHz</td><td>-26.020 dBm</td><td></td><td></td><td></td></tr></table> STATUS RF Alignment Failure	MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	826.10 MHz	22.476 dBm				2	N	1	f	5.200 69 GHz	-26.020 dBm			
MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	826.10 MHz	22.476 dBm																							
2	N	1	f	5.200 69 GHz	-26.020 dBm																							
HSUPA Middle Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.17 dB Ref 30.00 dBm Mkr1 837.82 MHz 22.588 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MARK</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>837.82 MHz</td><td>22.588 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.240 57 GHz</td><td>-27.508 dBm</td><td></td><td></td><td></td></tr></table> STATUS RF Alignment Failure	MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	837.82 MHz	22.588 dBm				2	N	1	f	5.240 57 GHz	-27.508 dBm			
MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	837.82 MHz	22.588 dBm																							
2	N	1	f	5.240 57 GHz	-27.508 dBm																							
HSUPA High Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.18 dB Ref 30.00 dBm Mkr1 846.28 MHz 22.798 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MARK</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>846.28 MHz</td><td>22.798 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.190 72 GHz</td><td>-29.746 dBm</td><td></td><td></td><td></td></tr></table> STATUS RF Alignment Failure	MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	846.28 MHz	22.798 dBm				2	N	1	f	5.190 72 GHz	-29.746 dBm			
MARK	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	846.28 MHz	22.798 dBm																							
2	N	1	f	5.190 72 GHz	-29.746 dBm																							

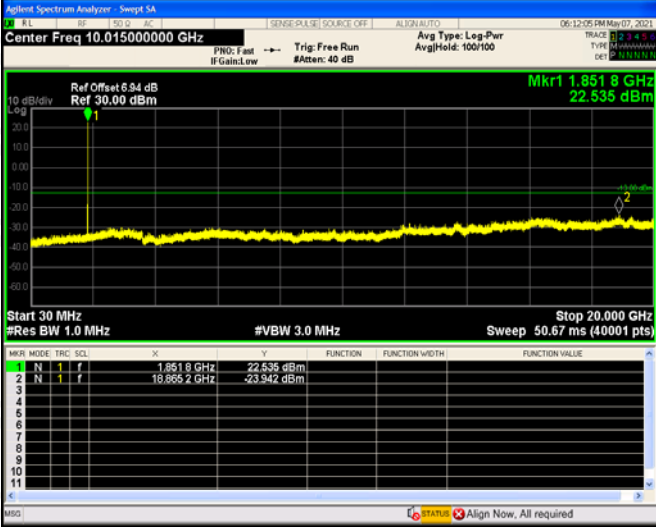
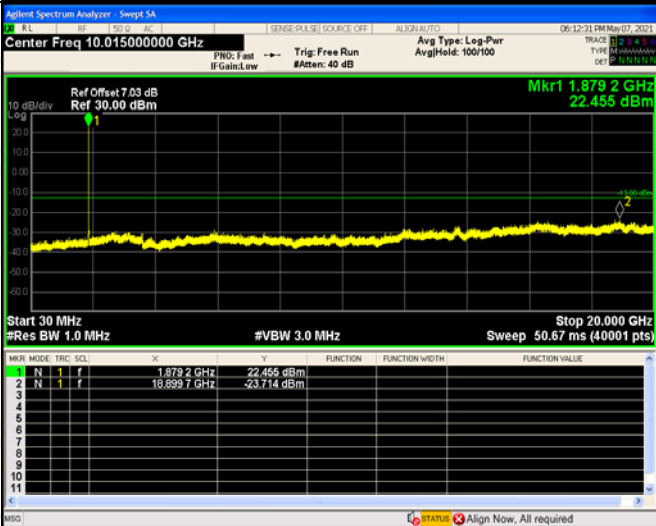
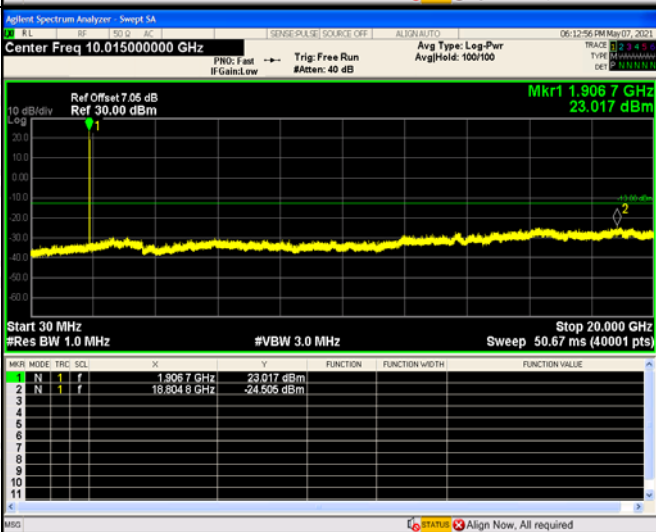
HSUPA
Low
Band
Spurious
Emission



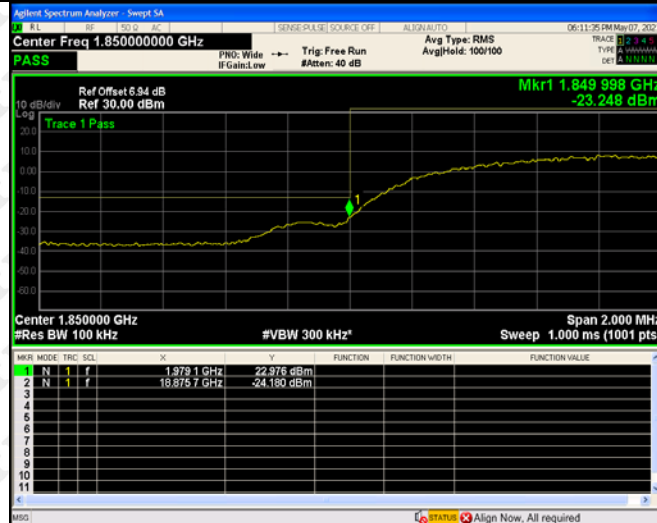
HSUPA
High
Band
Spurious
Emission



For Band II

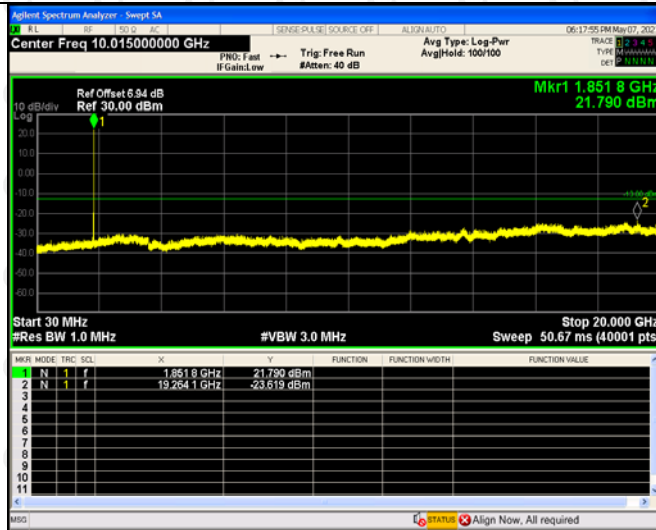
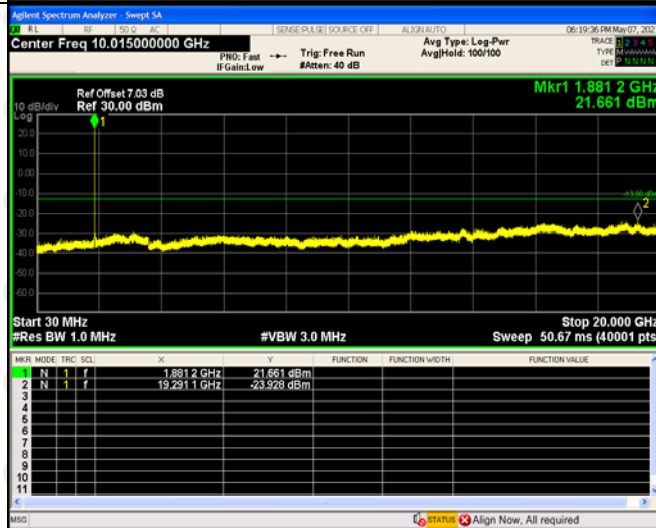
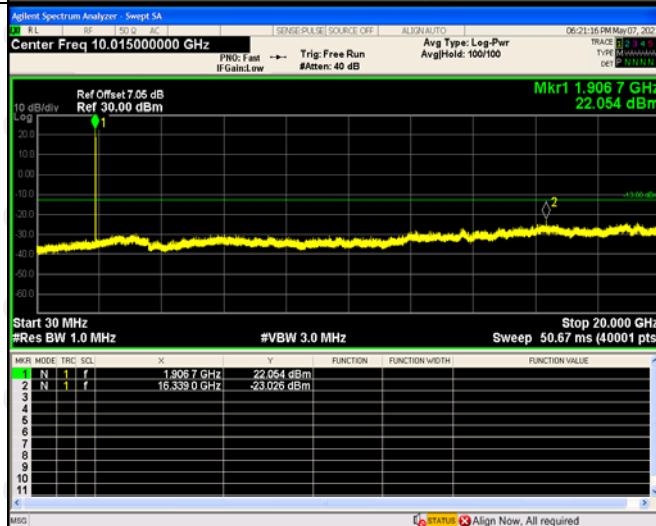
WCDMA Low Channel	
WCDMA Middle Channel	
WCDMA High Channel	

WCDMA
Low
Band
Spurious
Emission

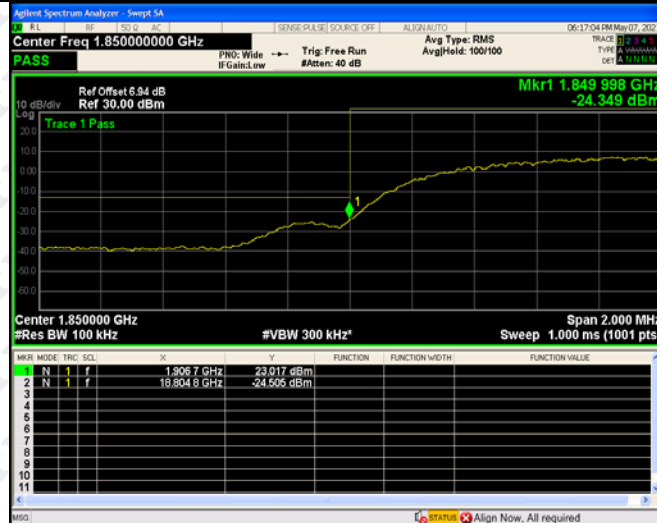


WCDMA
High
Band
Spurious
Emission



HSDPA
Low
Channel

HSDPA
Middle
Channel

HSDPA
High
Channel


HSDPA
Low
Band
Spurious
Emission

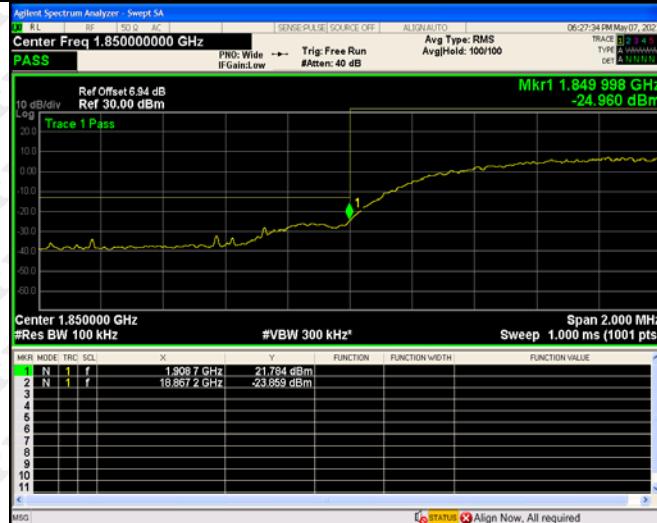


HSDPA
High
Band
Spurious
Emission



HSUPA Low Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 10.015000000 GHz Ref Offset 6.94 dB Ref 30.00 dBm Mkr1 1.851 8 GHz 21.882 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20.000 GHz Sweep 50.67 ms (40001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.851 8 GHz</td><td>21.882 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>19.257 1 GHz</td><td>-23.969 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.851 8 GHz	21.882 dBm				2	N	1	f	19.257 1 GHz	-23.969 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	1.851 8 GHz	21.882 dBm																							
2	N	1	f	19.257 1 GHz	-23.969 dBm																							
HSUPA Middle Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 10.015000000 GHz Ref Offset 7.03 dB Ref 30.00 dBm Mkr1 1.879 7 GHz 21.750 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20.000 GHz Sweep 50.67 ms (40001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.879 7 GHz</td><td>21.750 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>18.919 6 GHz</td><td>-23.995 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.879 7 GHz	21.750 dBm				2	N	1	f	18.919 6 GHz	-23.995 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
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HSUPA High Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 10.015000000 GHz Ref Offset 7.05 dB Ref 30.00 dBm Mkr1 1.907 2 GHz 22.168 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20.000 GHz Sweep 50.67 ms (40001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.907 2 GHz</td><td>22.168 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>16.184 7 GHz</td><td>-24.455 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.907 2 GHz	22.168 dBm				2	N	1	f	16.184 7 GHz	-24.455 dBm			
MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	1.907 2 GHz	22.168 dBm																							
2	N	1	f	16.184 7 GHz	-24.455 dBm																							

HSUPA
Low
Band
Spurious
Emission



HSUPA
High
Band
Spurious
Emission



10. SPURIOUS RADIATED EMISSIONS

10.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

10.2 Test Procedure

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2.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.
- 3.The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4.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.

Spurious attenuation limit in dB = $43 + 10 \log_{10}$ (power out in Watts)

10.3 Environmental Conditions

Temperature:	26 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa
Test Voltage	DC 3.8V

10.4 Summary of Test Results/Plots

According to the data below, the FCC Part22.917 and 24.238 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes are performed, but only the worst case is recorded in this report.

For Cellular Band GSM850 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (824.2MHz)						
46.34	-69.29	4.34	-64.95	-13.00	-51.95	H
1648.4	-54.15	4.94	-49.21	-13.00	-36.21	H
2472.6	-52.93	8.46	-44.47	-13.00	-31.47	H
46.34	-69.17	4.34	-64.83	-13.00	-51.83	V
1648.4	-50.38	4.94	-45.44	-13.00	-32.44	V
2472.6	-50.94	8.46	-42.48	-13.00	-29.48	V
Middle Channel (836.6MHz)						
46.34	-69.59	3.98	-65.61	-13.00	-52.61	H
1673.2	-54.18	4.48	-49.70	-13.00	-36.70	H
2509.8	-53.28	7.98	-45.30	-13.00	-32.30	H
46.34	-69.32	3.94	-65.38	-13.00	-52.38	V
1673.2	-50.77	4.93	-45.84	-13.00	-32.84	V
2509.8	-51.13	8.40	-42.73	-13.00	-29.73	V
High Channel (848.8MHz)						
46.34	-69.64	3.91	-65.74	-13.00	-52.74	H
1697.6	-54.26	4.56	-49.70	-13.00	-36.70	H
2546.4	-53.30	8.00	-45.31	-13.00	-32.31	H
46.34	-69.61	3.99	-65.61	-13.00	-52.61	V
1697.6	-50.59	4.56	-46.03	-13.00	-33.03	V
2546.4	-51.00	8.10	-42.90	-13.00	-29.90	V

For PCS Band GSM1900 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1850.2MHz)						
46.34	-69.22	4.34	-64.88	-13.00	-51.88	H
3700.4	-53.35	10.54	-42.81	-13.00	-29.81	H
5550.6	-56.25	13.37	-42.88	-13.00	-29.88	H
46.34	-68.54	4.34	-64.20	-13.00	-51.20	V
3700.4	-52.76	10.54	-42.22	-13.00	-29.22	V
5550.6	-56.32	13.37	-42.95	-13.00	-29.95	V
Middle Channel (1880MHz)						
46.34	-69.60	4.16	-65.44	-13.00	-52.44	H
3760.0	-53.53	10.88	-42.65	-13.00	-29.65	H
5640.0	-56.66	13.72	-42.94	-13.00	-29.94	H
46.34	-68.65	4.03	-64.62	-13.00	-51.62	V
3760.0	-53.16	10.41	-42.75	-13.00	-29.75	V
5640.0	-56.40	12.89	-43.51	-13.00	-30.51	V
High Channel (1909.8MHz)						
46.34	-69.47	4.05	-65.42	-13.00	-52.42	H
3819.6	-53.74	10.87	-42.87	-13.00	-29.87	H
5729.4	-56.37	13.65	-42.72	-13.00	-29.72	H
46.34	-68.94	4.24	-64.70	-13.00	-51.70	V
3819.6	-52.91	10.46	-42.45	-13.00	-29.45	V
5729.4	-56.39	13.01	-43.38	-13.00	-30.38	V

For Band 5 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
46.34	-69.54	3.89	-65.64	-13.00	-52.64	H
1652.8	-57.87	4.93	-52.94	-13.00	-39.94	H
2479.2	-44.77	8.10	-36.66	-13.00	-23.66	H
46.34	-57.97	4.14	-53.83	-13.00	-40.83	V
1652.8	-58.75	4.82	-53.93	-13.00	-40.93	V
2479.2	-59.64	8.47	-51.17	-13.00	-38.17	V
Middle Channel (836.6MHz)						
46.34	-69.47	4.34	-65.13	-13.00	-52.13	H
1672.8	-57.47	5.11	-52.36	-13.00	-39.36	H
2509.2	-57.54	8.54	-49.00	-13.00	-36.00	H
46.34	-69.17	4.34	-64.83	-13.00	-51.83	V
1672.8	-58.32	5.11	-53.21	-13.00	-40.21	V
2509.2	-59.47	8.54	-50.93	-13.00	-37.93	V
High Channel (846.6MHz)						
46.34	-69.63	4.11	-65.51	-13.00	-52.51	H
1693.2	-57.75	4.84	-52.91	-13.00	-39.91	H
2539.8	-44.93	8.45	-36.48	-13.00	-23.48	H
46.34	-57.62	4.25	-53.37	-13.00	-40.37	V
1693.2	-58.80	4.63	-54.17	-13.00	-41.17	V
2539.8	-59.65	8.05	-51.60	-13.00	-38.60	V

For Band 2 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
46.34	-69.29	4.34	-64.95	-13.00	-51.95	H
3704.8	-57.43	10.17	-47.26	-13.00	-34.26	H
5557.2	-58.17	14.69	-43.48	-13.00	-30.48	H
46.34	-68.83	4.34	-64.49	-13.00	-51.49	V
3704.8	-58.54	10.17	-48.37	-13.00	-35.37	V
5557.2	-58.56	14.69	-43.87	-13.00	-30.87	V
Middle Channel (1880MHz)						
46.34	-69.50	4.11	-65.39	-13.00	-52.39	H
3760.8	-57.65	5.02	-52.63	-13.00	-39.63	H
5640.0	-44.78	8.05	-36.73	-13.00	-23.73	H
46.34	-57.82	3.98	-53.84	-13.00	-40.84	V
3760.8	-58.36	4.74	-53.63	-13.00	-40.63	V
5640.0	-59.92	8.40	-51.51	-13.00	-38.51	V
High Channel (1907.6MHz)						
46.34	-69.75	4.27	-65.48	-13.00	-52.48	H
3815.2	-57.70	4.70	-53.00	-13.00	-40.00	H
5722.8	-44.75	8.17	-36.58	-13.00	-23.58	H
46.34	-57.63	4.04	-53.59	-13.00	-40.59	V
3815.2	-58.69	4.99	-53.70	-13.00	-40.70	V

5722.8	-59.80	8.46	-51.35	-13.00	-38.35	V
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Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

11. FREQUENCY STABILITY

11.1 Standard Applicable

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 Cellular Band

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	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	N/A	N/A
929 to 960	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to §27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

11.3 Environmental Conditions

Temperature:	26°C
Relative Humidity:	54%
ATM Pressure:	101kPa

11.4 Summary of Test Results/Plots

For Cellular Band GSM Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	3.00	0.0036
40	NV	3.1	0.0037
30	NV	3.3	0.0039
20	NV	3.4	0.0041
10	NV	3.5	0.0042
0	NV	3.7	0.0045
-10	NV	4.2	0.0051
-20	NV	4.6	0.0055
-30	NV	4.7	0.0056

For PCS Band GSM Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	5.52	0.0029
40	NV	5.8	0.0031
30	NV	6.1	0.0032
20	NV	6.1	0.0033
10	NV	6.4	0.0034
0	NV	6.7	0.0036
-10	NV	7.0	0.0037
-20	NV	7.0	0.0037
-30	NV	7.1	0.0038

For Cellular Band GPRS Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	3.62	0.0043
40	NV	4.1	0.0049
30	NV	4.5	0.0054
20	NV	4.7	0.0056
10	NV	4.8	0.0058
0	NV	5.0	0.0059
-10	NV	5.0	0.0060
-20	NV	5.4	0.0065
-30	NV	5.8	0.0069

For PCS Band GPRS Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	7.62	0.0041
40	NV	7.8	0.0041
30	NV	8.1	0.0043
20	NV	8.5	0.0045
10	NV	8.8	0.0047
0	NV	8.9	0.0047
-10	NV	9.2	0.0049
-20	NV	9.3	0.0049
-30	NV	9.6	0.0051

For Cellular Band EDGE Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-5.77	-0.0069
40	NV	-5.6	-0.0067
30	NV	-5.4	-0.0064
20	NV	-5.2	-0.0062
10	NV	-4.8	-0.0058
0	NV	-4.5	-0.0054
-10	NV	-4.4	-0.0053
-20	NV	-4.2	-0.0050
-30	NV	-3.7	-0.0044

For PCS Band EDGE Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	4.23	0.0023
40	NV	4.6	0.0024
30	NV	4.7	0.0025
20	NV	4.9	0.0026
10	NV	4.9	0.0026
0	NV	5.3	0.0028
-10	NV	5.7	0.0030
-20	NV	5.7	0.0030
-30	NV	5.8	0.0031

For WCDMA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-16.75	-0.0200
40	NV	-16.6	-0.0198
30	NV	-16.4	-0.0197
20	NV	-16.4	-0.0196
10	NV	-16.3	-0.0195
0	NV	-15.9	-0.0190
-10	NV	-15.7	-0.0188
-20	NV	-15.3	-0.0183
-30	NV	-14.8	-0.0177

For WCDMA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-27.75	-0.0148
40	NV	-27.3	-0.0145
30	NV	-26.8	-0.0143
20	NV	-26.7	-0.0142
10	NV	-26.2	-0.0140
0	NV	-26.1	-0.0139
-10	NV	-25.9	-0.0138
-20	NV	-25.6	-0.0136
-30	NV	-25.2	-0.0134

For HSDPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-11.66	-0.0139
40	NV	-11.6	-0.0138
30	NV	-11.3	-0.0135

20	NV	-11.1	-0.0133
10	NV	-11.0	-0.0131
0	NV	-10.8	-0.0129
-10	NV	-10.7	-0.0128
-20	NV	-10.7	-0.0128
-30	NV	-10.3	-0.0123

For HSUPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-15.11	-0.0181
40	NV	-15.1	-0.0181
30	NV	-14.9	-0.0178
20	NV	-14.8	-0.0176
10	NV	-14.5	-0.0173
0	NV	-14.1	-0.0169
-10	NV	-14.0	-0.0168
-20	NV	-13.9	-0.0166
-30	NV	-13.5	-0.0161

For HSDPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-10.22	-0.0054
40	NV	-10.1	-0.0054
30	NV	-10.0	-0.0053
20	NV	-9.8	-0.0052
10	NV	-9.8	-0.0052
0	NV	-9.5	-0.0051
-10	NV	-9.3	-0.0049
-20	NV	-9.2	-0.0049
-30	NV	-8.9	-0.0047

So, Frequency Stability Versus Input Voltage is:

Reference Frequency(Middle Channel): GSM 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	3.4	0.0041
	NV	3.6	0.0043

	HV	3.8	0.0045
Reference Frequency(Middle Channel): GSM 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.1	0.0032
	NV	6.2	0.0033
	HV	6.6	0.0035
Reference Frequency(Middle Channel): GPRS 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	4.7	0.0056
	NV	4.8	0.0057
	HV	5.1	0.0061
Reference Frequency(Middle Channel): GPRS 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	8.5	0.0045
	NV	8.8	0.0047
	HV	9.1	0.0049

Reference Frequency(Middle Channel): EDGE 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-5.2	-0.0028
	NV	-4.7	-0.0025
	HV	-4.3	-0.0023
Reference Frequency(Middle Channel): EDGE 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	4.9	0.0026
	NV	5.1	0.0027
	HV	5.3	0.0028
Reference Frequency(Middle Channel): WCDMA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-16.4	-0.0196
	NV	-16.3	-0.0192
	HV	-15.8	-0.0187
Reference Frequency(Middle Channel): WCDMA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-26.7	-0.0154
	NV	-26.6	-0.0151
	HV	-26.3	-0.0150
Reference Frequency(Middle Channel): WCDMA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-26.7	-0.0142
	NV	-26.6	-0.0142
	HV	-26.3	-0.0140

Reference Frequency(Middle Channel): HSDPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-11.1	-0.0133
	NV	-11.0	-0.0131
	HV	-10.7	-0.0128
Reference Frequency(Middle Channel): HSDPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-10.8	-0.00626
	NV	-10.4	-0.00598
	HV	-10.0	-0.0058
Reference Frequency(Middle Channel): HSDPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-10.0	-0.00532
	NV	-9.8	-0.00522
	HV	-9.5	-0.00503
Reference Frequency(Middle Channel): HSUPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-9.5	-0.0113
	NV	-9.1	-0.0109
	HV	-8.8	-0.0105
Reference Frequency(Middle Channel): HSUPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-9.8	-0.00566
	NV	-9.6	-0.00554
	HV	-9.5	-0.0055

Reference Frequency(Middle Channel): HSUPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-9.8	-0.0052
	NV	-9.4	-0.0050
	HV	-9.2	-0.0049

12. EUT PHOTO

EUT Photo 1



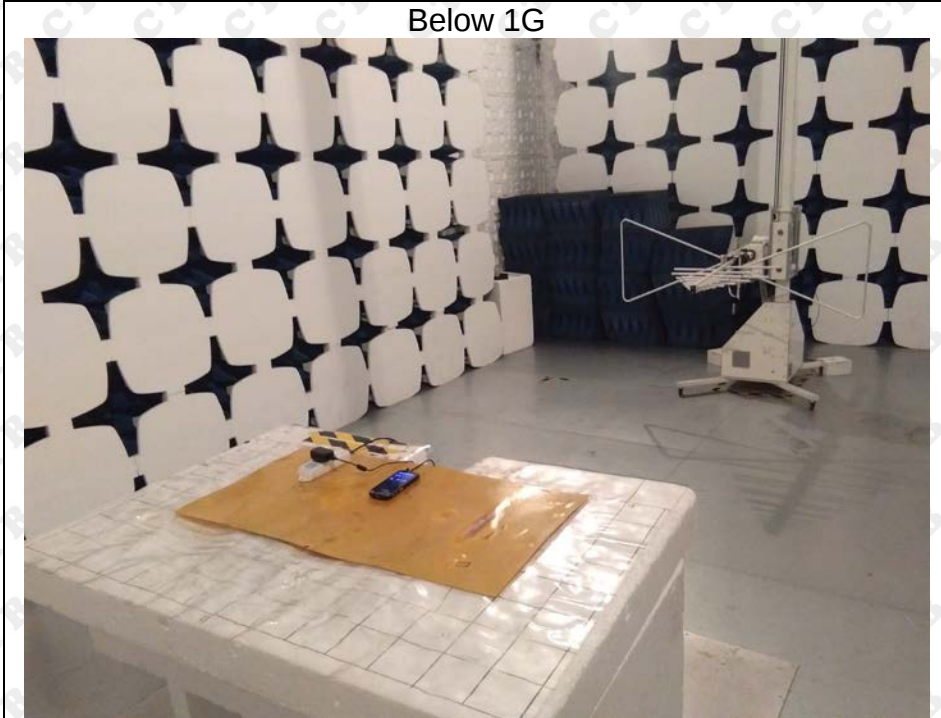
EUT Photo 2



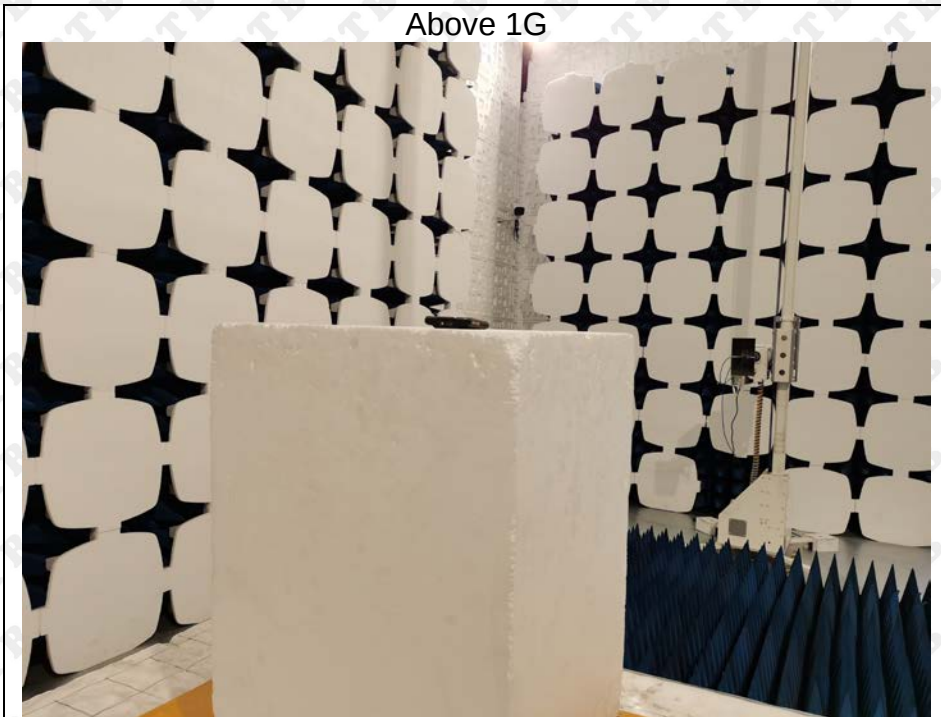
13. EUT TEST PHOTO

Radiated Emission

Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****