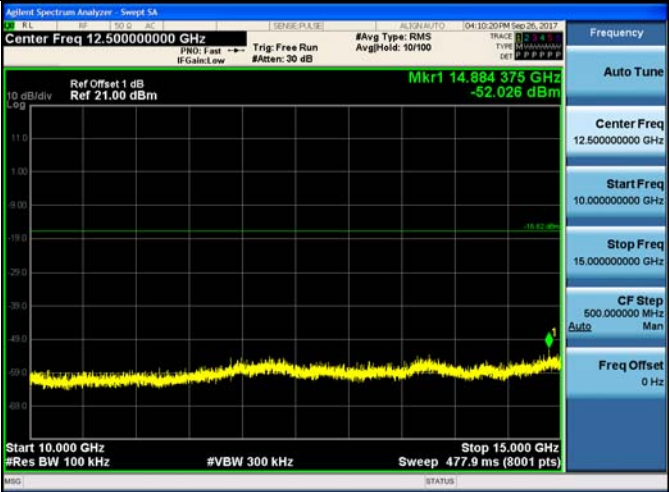

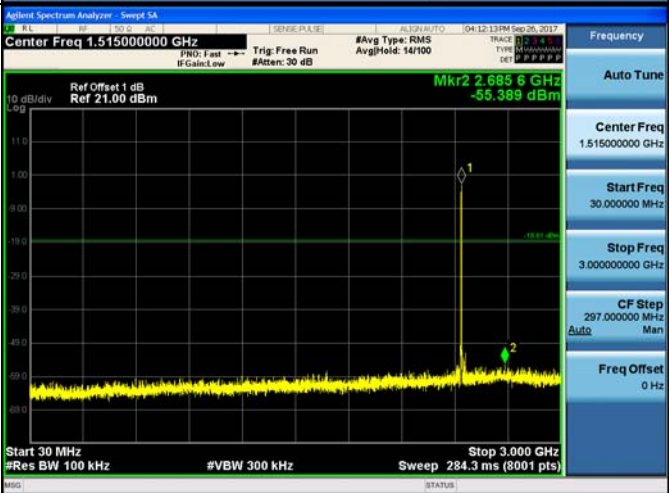
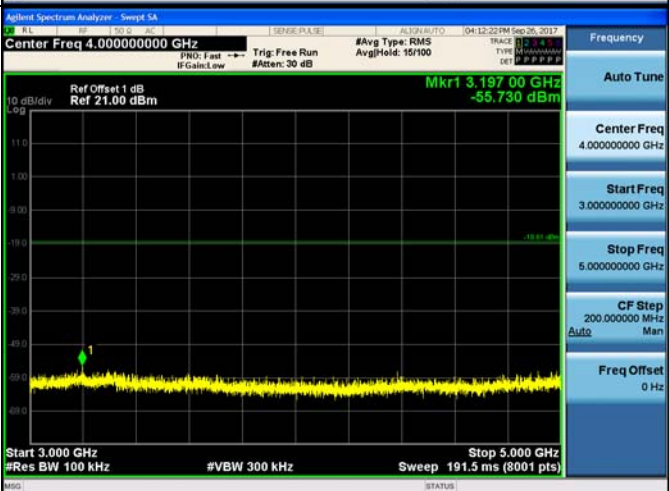
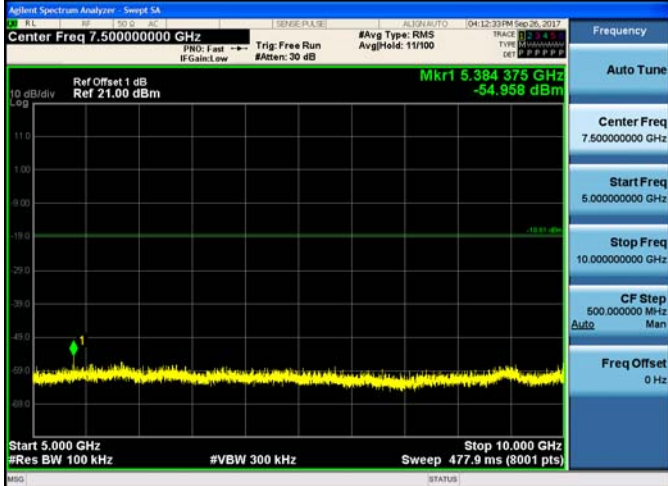
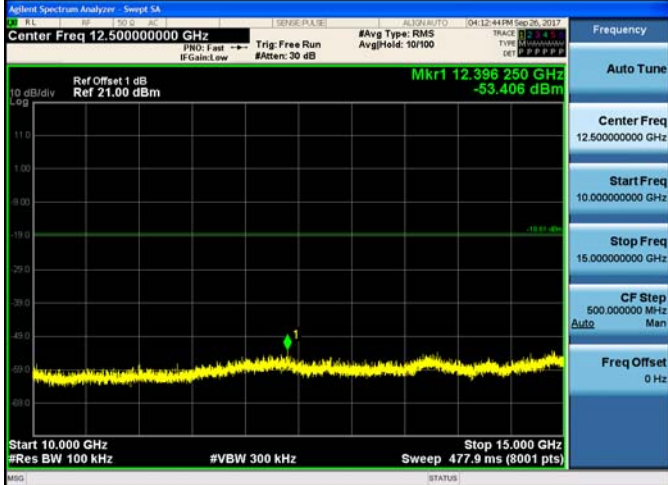

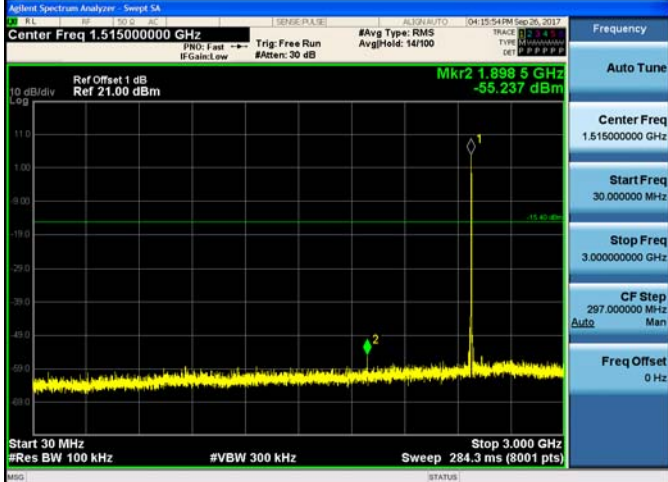
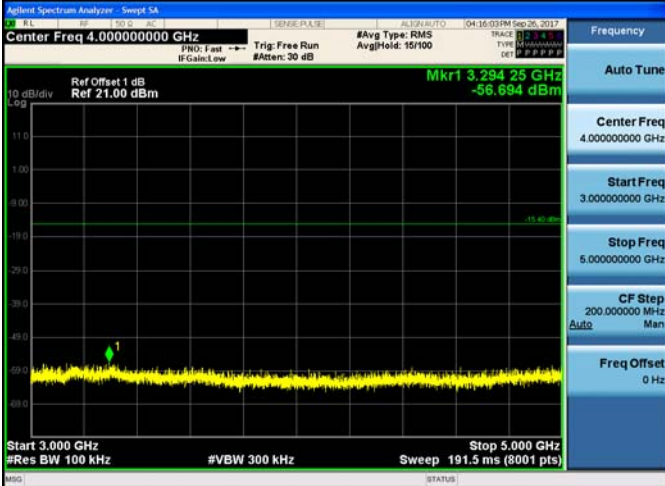
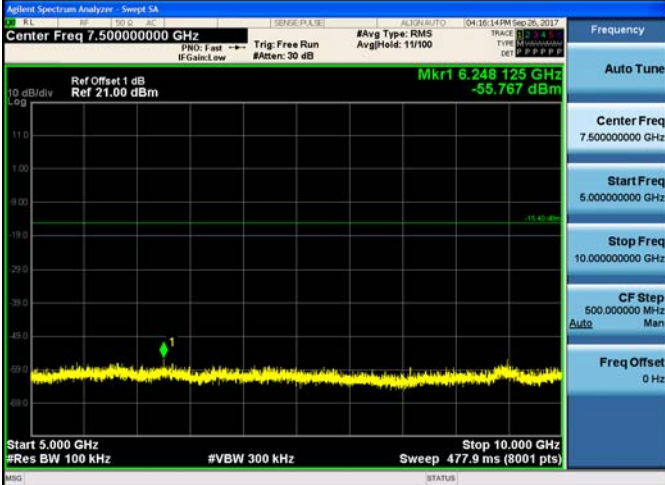
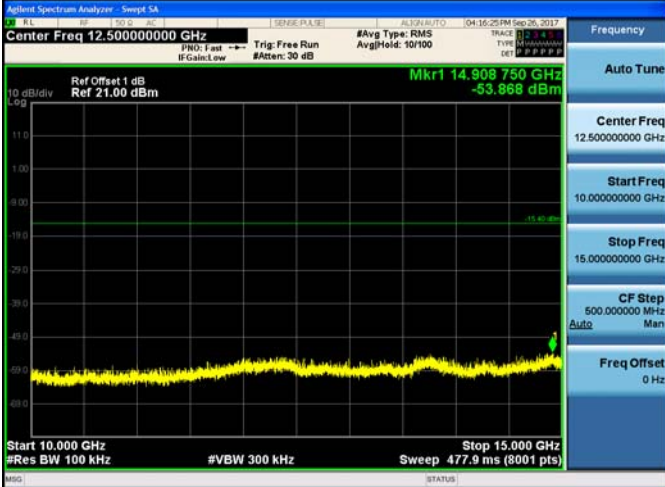

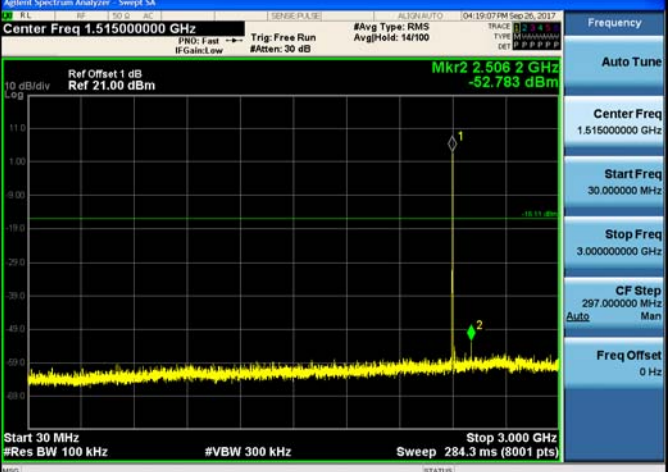

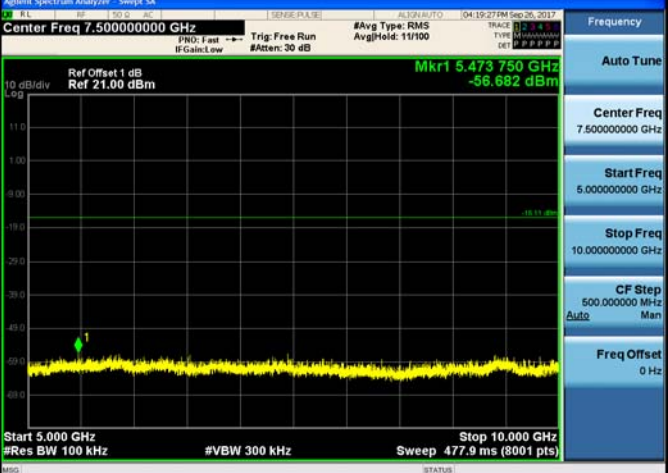
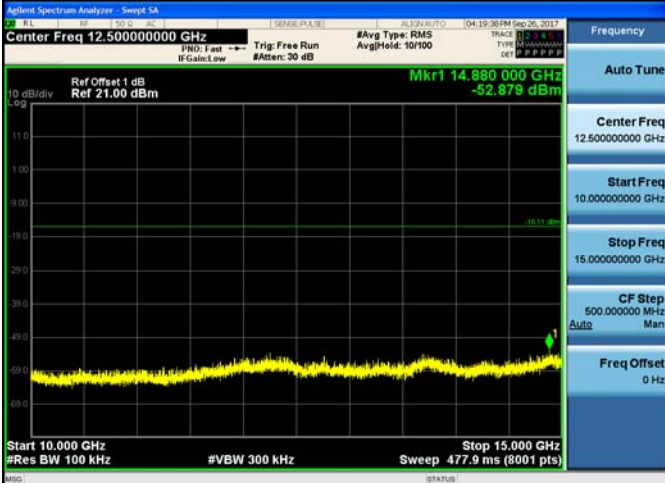

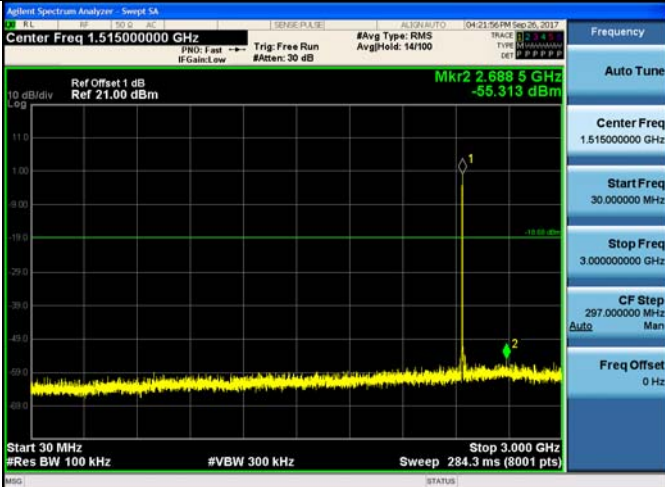
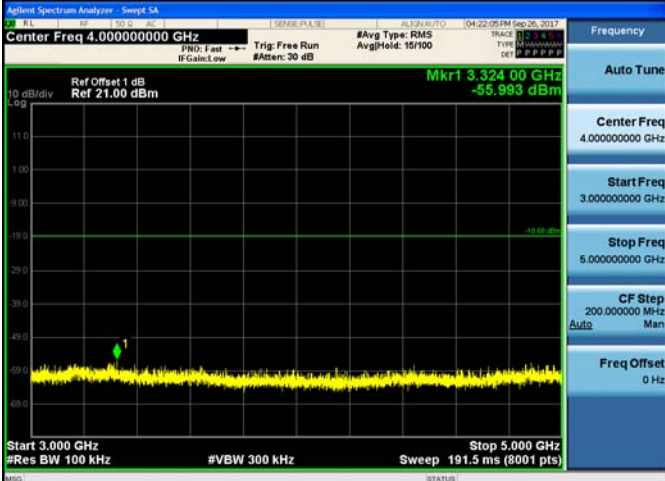


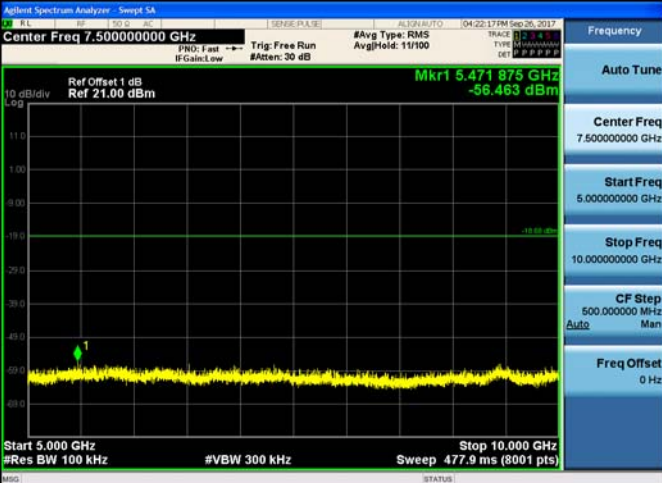
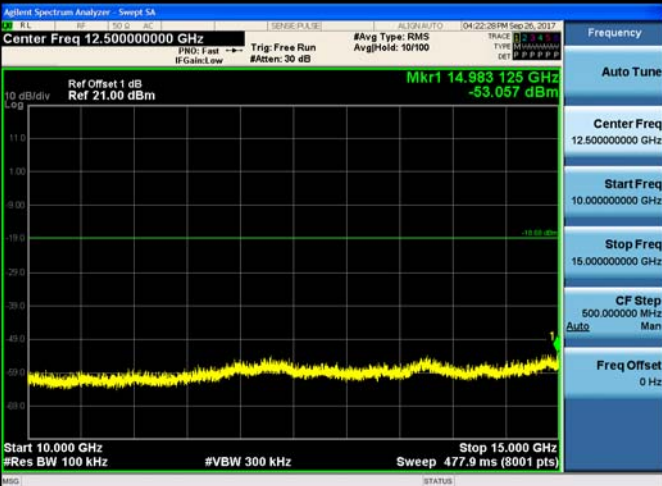

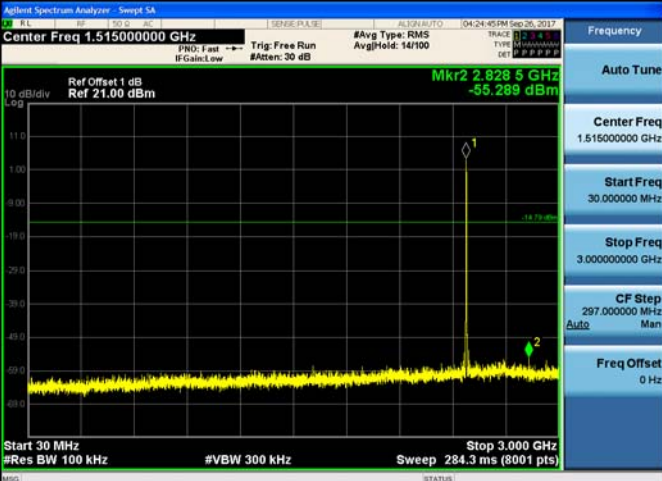
<p>CH00 10GHz~15GHz</p>	
<p>CH00 15GHz~25GHz</p>	
<p>CH39 30MHz~3GHz</p>	
<p>CH39 3GHz~5GHz</p>	

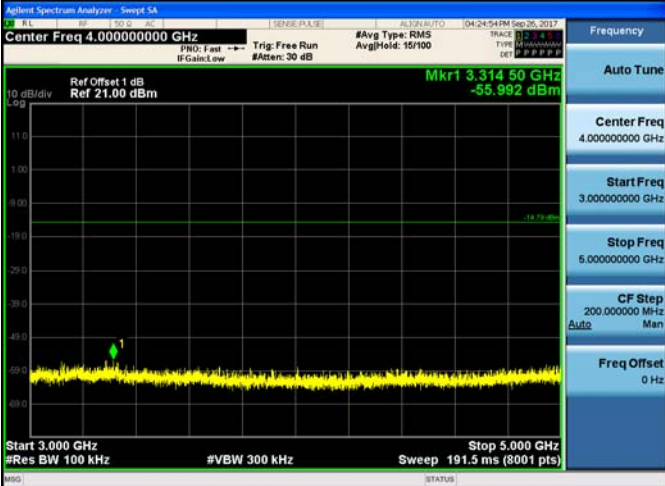
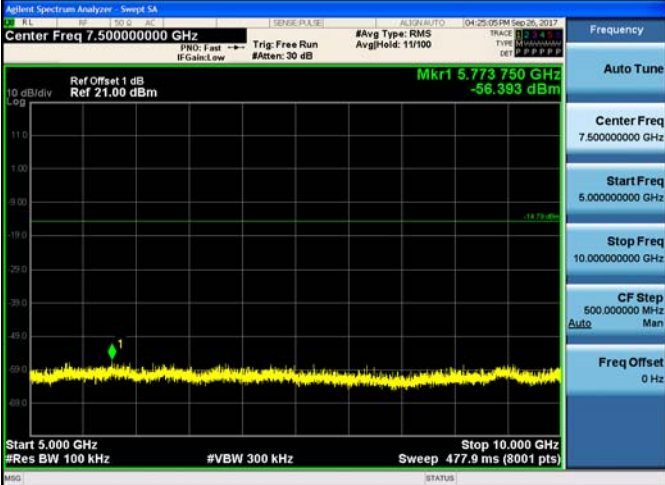
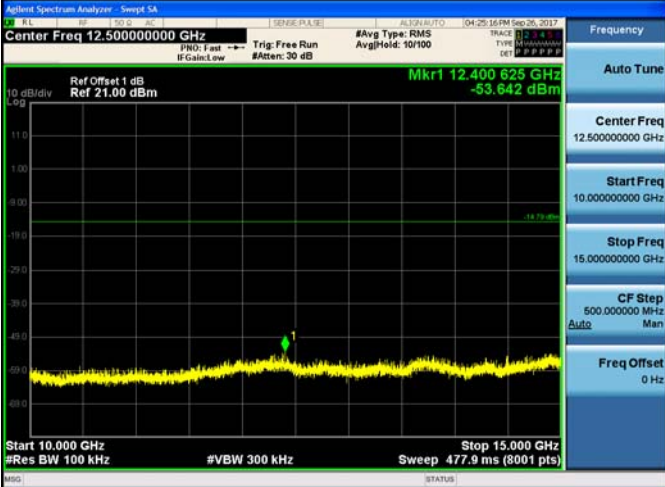

<p>CH39 5GHz~10GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 7.500000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr1 5.384 375 GHz -54.958 dBm Start 5.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 477.9 ms (8001 pts)</p>
<p>CH39 10GHz~15GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 12.500000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr1 12.396 250 GHz -53.406 dBm Start 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 477.9 ms (8001 pts)</p>
<p>CH39 15GHz~25GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 20.000000000 GHz Ref Offset 1 dB Ref 23.00 dBm Mkr1 24.906 25 GHz -44.005 dBm Start 15.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 955.7 ms (8001 pts)</p>
<p>CH78 30MHz~3GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 1.515000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr2 1.898 5 GHz -55.237 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 284.3 ms (8001 pts)</p>

<p>CH78 3GHz~5GHz</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 4.00000000 GHz</p> <p>Start Freq 3.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 200.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>CH78 5GHz~10GHz</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 7.50000000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 10.00000000 GHz</p> <p>CF Step 500.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>CH78 10GHz~15GHz</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 12.50000000 GHz</p> <p>Start Freq 10.00000000 GHz</p> <p>Stop Freq 15.00000000 GHz</p> <p>CF Step 500.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>CH78 15GHz~25GHz</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 20.00000000 GHz</p> <p>Start Freq 15.00000000 GHz</p> <p>Stop Freq 25.00000000 GHz</p> <p>CF Step 1.00000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p>

Test Item:	SE	Modulation type:	8DPSK
<p>CH00 30MHz~3GHz</p>			
<p>CH00 3GHz~5GHz</p>			
<p>CH00 5GHz~10GHz</p>			

<p>CH00 10GHz~15GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 12.50000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr1 14.880 000 GHz -52.879 dBm Start 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 477.9 ms (8001 pts)</p>
<p>CH00 15GHz~25GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 20.00000000 GHz Ref Offset 1 dB Ref 23.00 dBm Mkr1 24.206 25 GHz -43.549 dBm Start 15.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 955.7 ms (8001 pts)</p>
<p>CH39 30MHz~3GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 1.515000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr2 2.688 5 GHz -55.313 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 284.3 ms (8001 pts)</p>
<p>CH39 3GHz~5GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 4.000000000 GHz Ref Offset 1 dB Ref 21.00 dBm Mkr1 3.324 00 GHz -55.993 dBm Start 3.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 191.5 ms (8001 pts)</p>

<p>CH39 5GHz~10GHz</p>	
<p>CH39 10GHz~15GHz</p>	
<p>CH39 15GHz~25GHz</p>	
<p>CH78 30MHz~3GHz</p>	

<p>CH78 3GHz~5GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 4.00000000 GHz Mkr1 3.314 50 GHz -55.992 dBm Start 3.000 GHz Stop 5.000 GHz</p>
<p>CH78 5GHz~10GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 7.50000000 GHz Mkr1 5.773 750 GHz -55.392 dBm Start 5.000 GHz Stop 10.000 GHz</p>
<p>CH78 10GHz~15GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 12.50000000 GHz Mkr1 12.400 625 GHz -53.642 dBm Start 10.000 GHz Stop 15.000 GHz</p>
<p>CH78 15GHz~25GHz</p>	 <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 20.00000000 GHz Mkr1 24.302 50 GHz -43.918 dBm Start 15.000 GHz Stop 25.000 GHz</p>

5.11. Spurious Emissions (radiated)

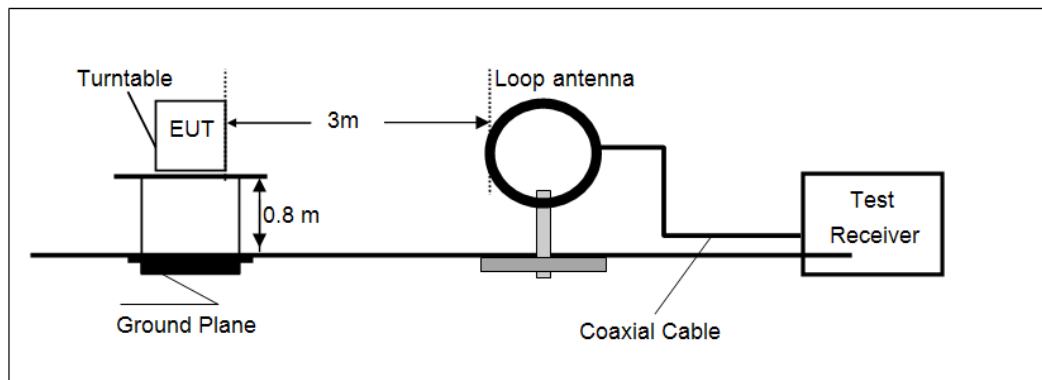
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

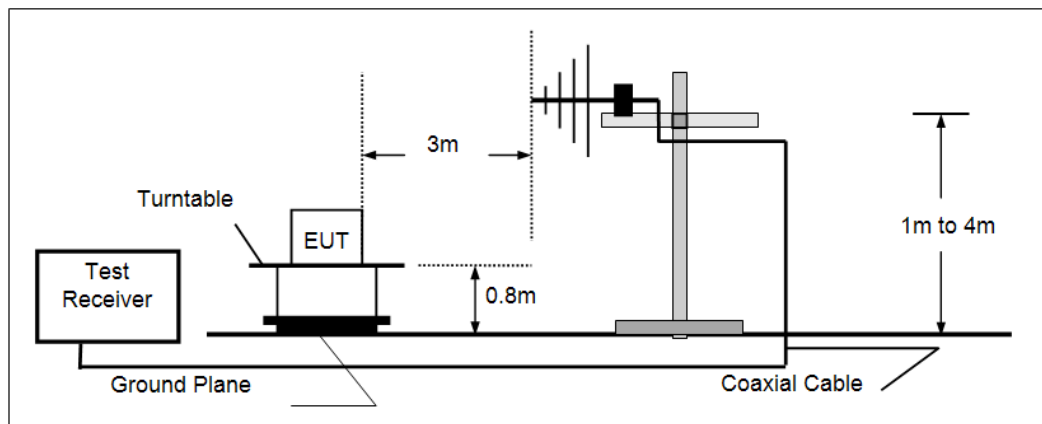
Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

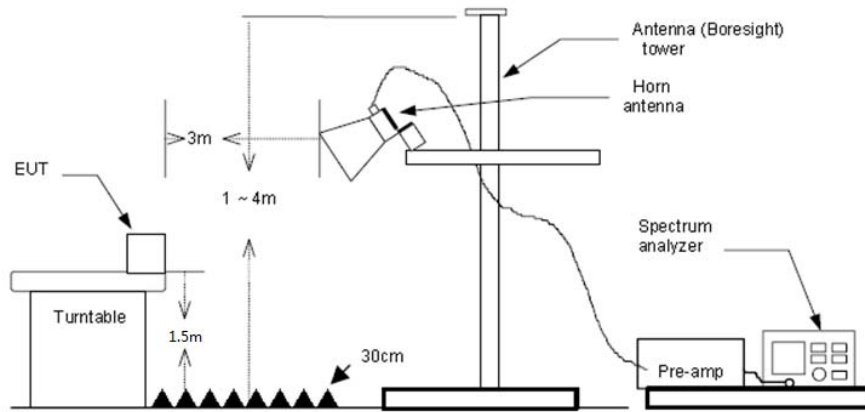
- Below 30 MHz



- 30 MHz ~1000 MHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz, RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1 GHz, RBW=1 MHz, VBW=3 MHz Peak detector for Peak value
RBW=1 MHz, VBW=10 Hz Peak detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed **Not Applicable**

Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3) Below 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation High channel which it was worst case, so only the worst case's data on the test report.
- 4) Above 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report
- 5) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

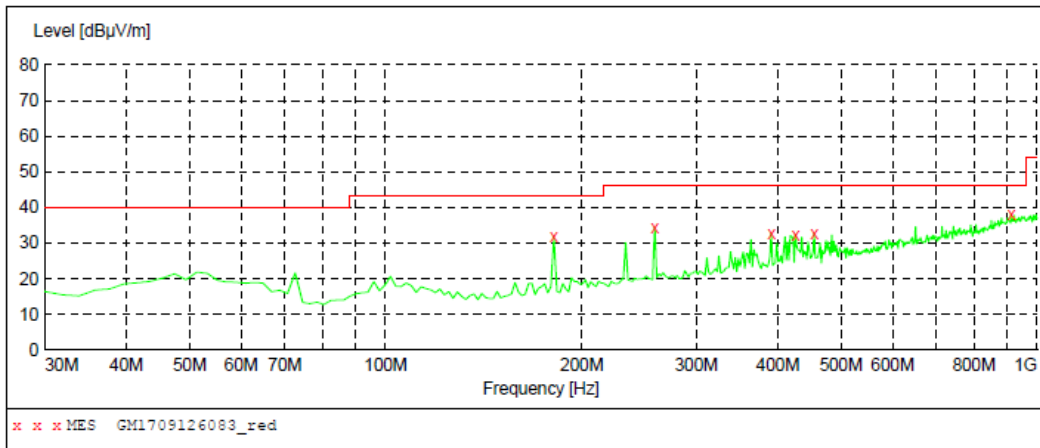
➤ **9 kHz ~ 30 MHz**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

➤ 30 MHz ~ 1 GHz

Polarization:

Vertical



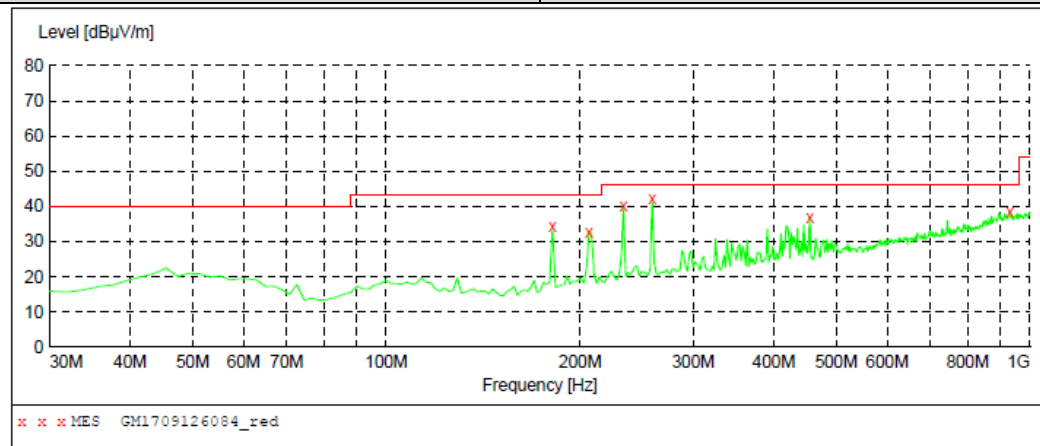
MEASUREMENT RESULT: "GM1709126083_red"

9/12/2017 4:48PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
181.320000	31.80	-12.1	43.5	11.7	QP	100.0	290.00	VERTICAL
258.920000	34.40	-8.2	46.0	11.6	QP	100.0	342.00	VERTICAL
390.840000	32.60	-4.6	46.0	13.4	QP	100.0	342.00	VERTICAL
425.760000	32.40	-3.6	46.0	13.6	QP	100.0	119.00	VERTICAL
454.860000	32.60	-3.2	46.0	13.4	QP	100.0	187.00	VERTICAL
912.700000	37.90	6.9	46.0	8.1	QP	100.0	221.00	VERTICAL

Polarization:

Horizontal



MEASUREMENT RESULT: "GM1709126084_red"

9/12/2017 4:51PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
181.320000	34.20	-12.1	43.5	9.3	QP	100.0	292.00	HORIZONTAL
206.540000	32.60	-10.5	43.5	10.9	QP	100.0	292.00	HORIZONTAL
233.700000	40.10	-9.1	46.0	5.9	QP	100.0	292.00	HORIZONTAL
258.920000	42.10	-8.2	46.0	3.9	QP	100.0	308.00	HORIZONTAL
454.860000	37.00	-3.2	46.0	9.0	QP	100.0	66.00	HORIZONTAL
930.160000	38.40	7.1	46.0	7.6	QP	100.0	197.00	HORIZONTAL

➤ Above 1 GHz

CH00									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1491.30	37.72	25.81	5.26	36.58	32.21	74.00	-41.79	Vertical	Peak
3634.91	36.41	29.30	8.31	38.26	35.76	74.00	-38.24	Vertical	Peak
4809.50	43.77	31.58	9.55	36.93	47.97	74.00	-26.03	Vertical	Peak
7209.02	35.94	36.21	11.87	35.07	48.95	74.00	-25.05	Vertical	Peak
1491.30	37.72	25.81	5.26	36.58	32.21	74.00	-41.79	Vertical	Average
3634.91	36.41	29.30	8.31	38.26	35.76	74.00	-38.24	Vertical	Average
1529.75	36.10	25.53	5.37	36.63	30.37	74.00	-43.63	Horizontal	Peak
3049.39	35.02	28.70	7.54	38.22	33.04	74.00	-40.96	Horizontal	Peak
4809.50	43.80	31.58	9.55	36.93	48.00	74.00	-26.00	Horizontal	Peak
7209.02	34.56	36.21	11.87	35.07	47.57	74.00	-26.43	Horizontal	Peak
1529.75	36.10	25.53	5.37	36.63	30.37	74.00	-43.63	Horizontal	Average

CH39									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1498.91	36.27	25.80	5.28	36.59	30.76	74.00	-43.24	Vertical	Peak
3815.03	35.09	29.62	8.52	38.22	35.01	74.00	-38.99	Vertical	Peak
4883.52	41.50	31.43	9.59	36.73	45.79	74.00	-28.21	Vertical	Peak
8334.70	32.32	36.47	12.82	34.35	47.26	74.00	-26.74	Vertical	Peak
1746.25	37.23	25.29	5.86	37.03	31.35	74.00	-42.65	Horizontal	Peak
3588.94	35.83	29.27	8.25	38.29	35.06	74.00	-38.94	Horizontal	Peak
4883.52	41.97	31.43	9.59	36.73	46.26	74.00	-27.74	Horizontal	Peak
7319.96	32.51	36.30	11.99	34.92	45.88	74.00	-28.12	Horizontal	Peak

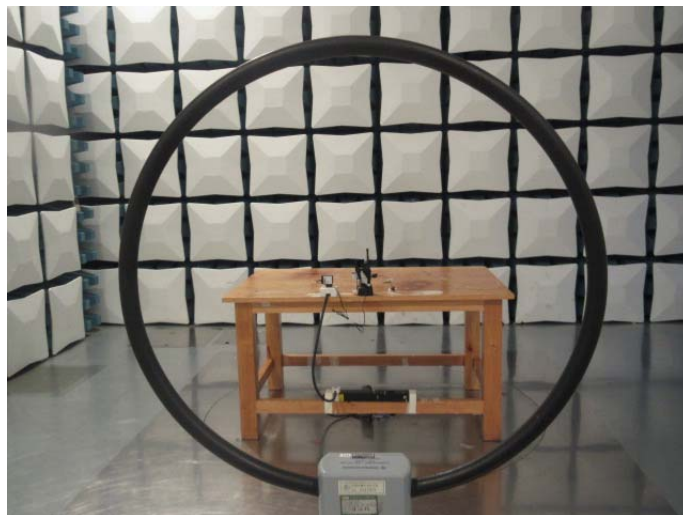
CH78									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1502.73	36.69	25.77	5.29	36.59	31.16	74.00	-42.84	Vertical	Peak
4444.56	34.00	30.59	9.20	37.49	36.30	74.00	-37.70	Vertical	Peak
4958.68	39.80	31.46	9.64	36.52	44.38	74.00	-29.62	Vertical	Peak
7451.57	35.58	36.20	12.24	34.86	49.16	74.00	-24.84	Vertical	Peak
1502.73	36.69	25.77	5.29	36.59	31.16	74.00	-42.84	Vertical	Average
4444.56	34.00	30.59	9.20	37.49	36.30	74.00	-37.70	Vertical	Average
1468.70	37.59	25.83	5.20	36.55	32.07	74.00	-41.93	Horizontal	Peak
3588.94	37.50	29.27	8.25	38.29	36.73	74.00	-37.27	Horizontal	Peak
4958.68	43.29	31.46	9.64	36.52	47.87	74.00	-26.13	Horizontal	Peak
7451.57	35.91	36.20	12.24	34.86	49.49	74.00	-24.51	Horizontal	Peak
1468.70	37.59	25.83	5.20	36.55	32.07	74.00	-41.93	Horizontal	Average
3588.94	37.50	29.27	8.25	38.29	36.73	74.00	-37.27	Horizontal	Average

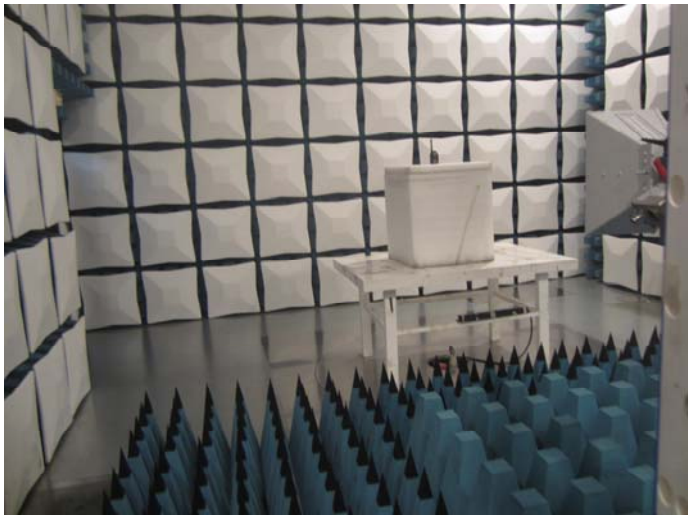
6. TEST SETUP PHOTOS

Conducted Emissions (AC Mains)



Radiated Emissions





7. EXTERNAL AND INTERNAL PHOTOS

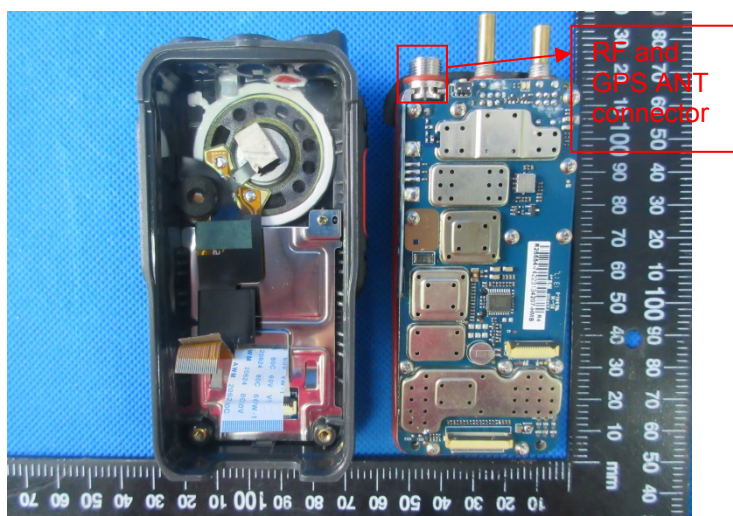
External Photos of the EUT

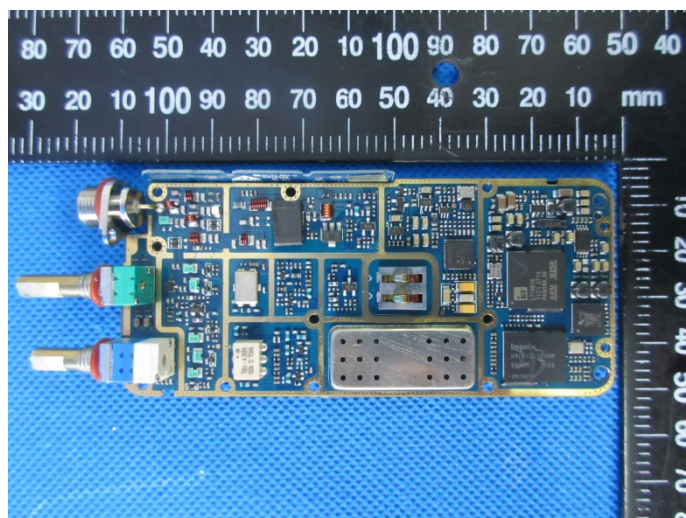
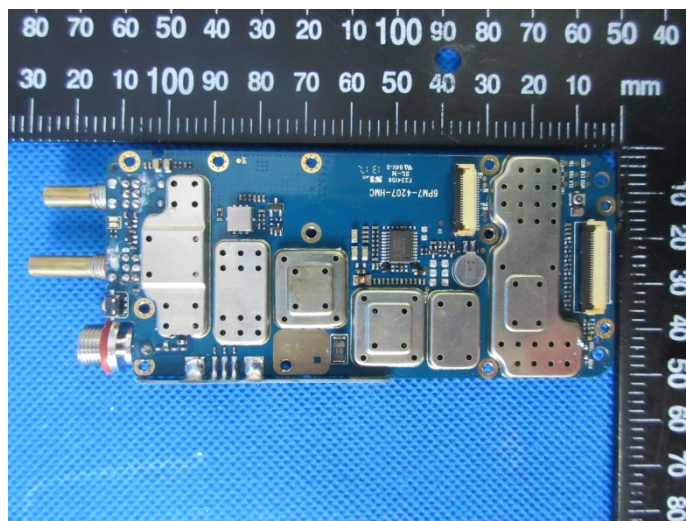
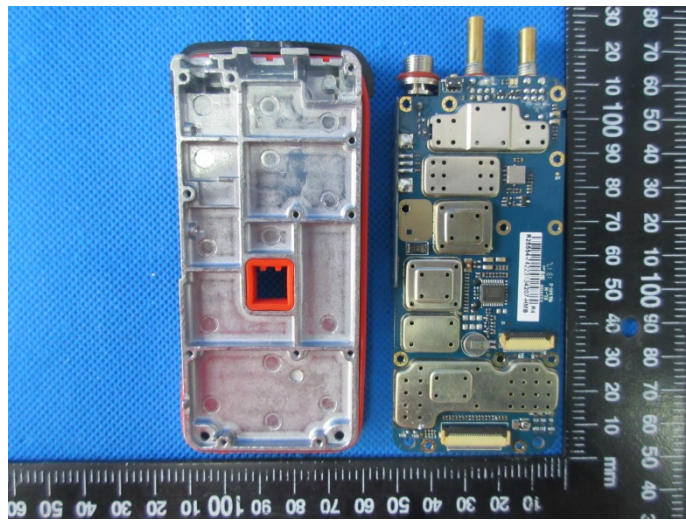


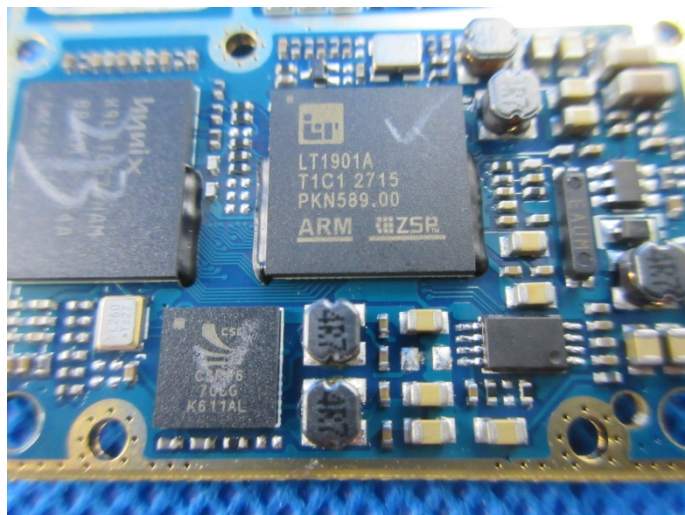
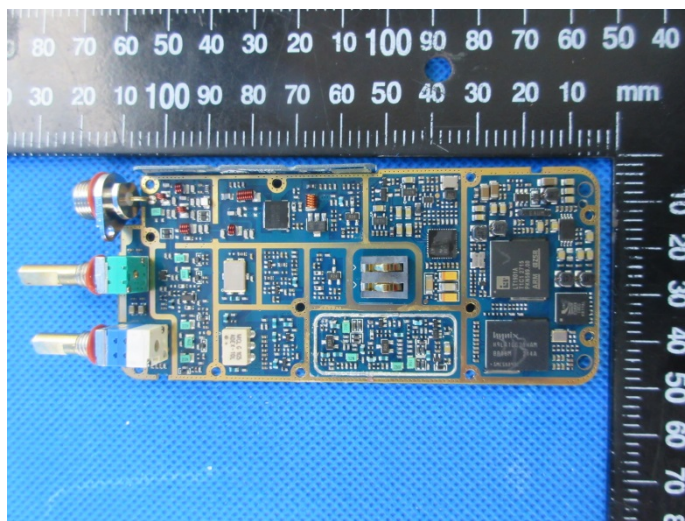
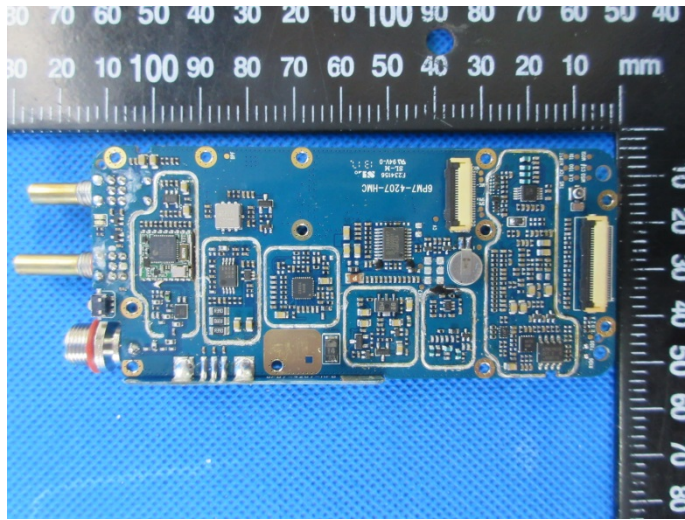


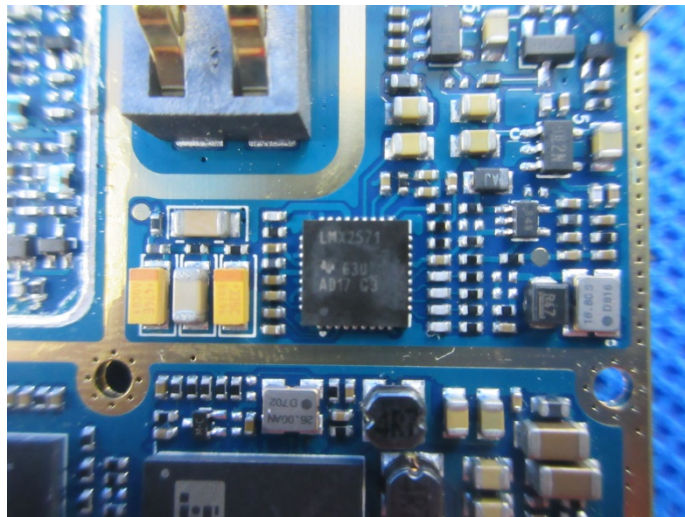
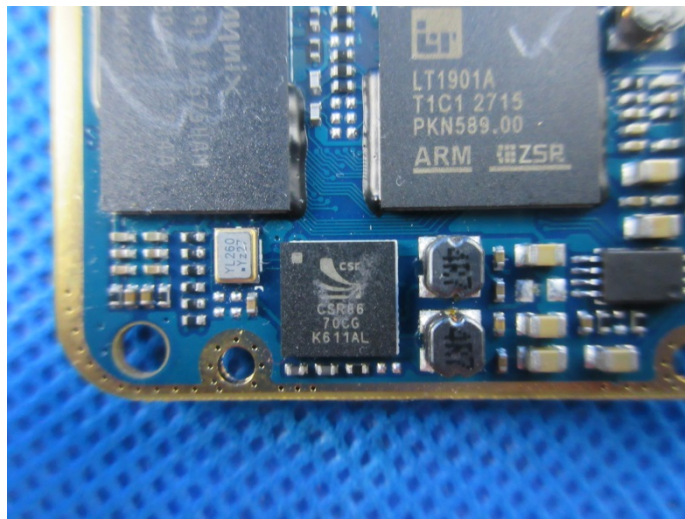


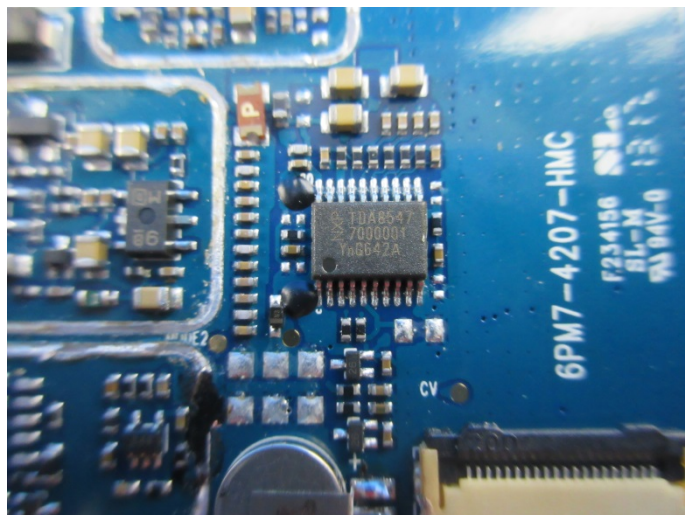
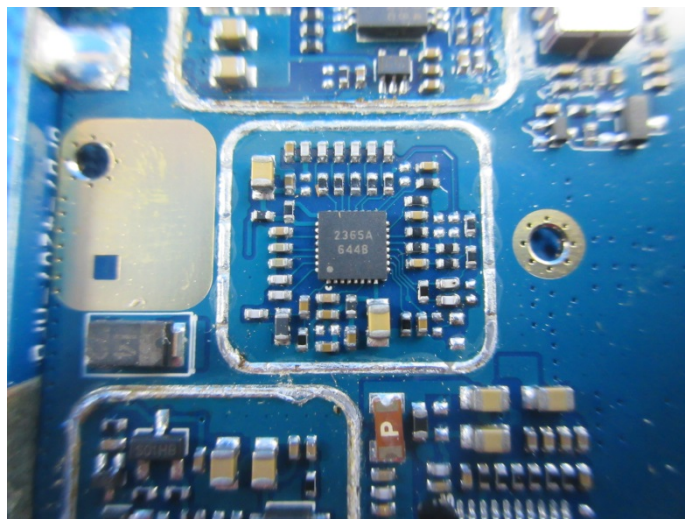
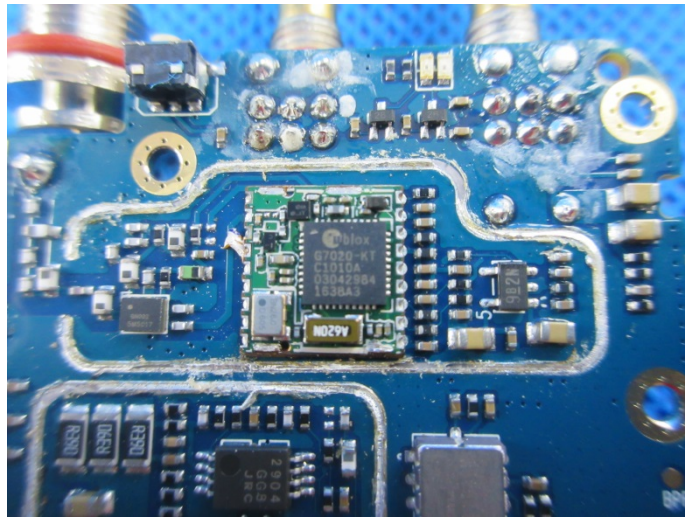
Internal Photos of the EUT

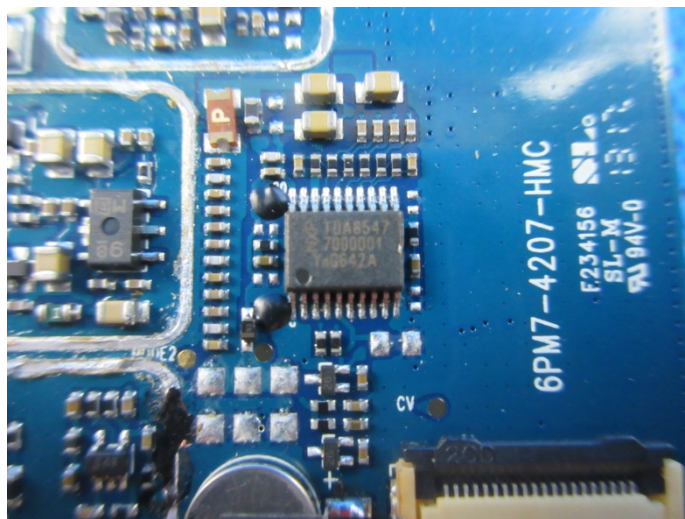
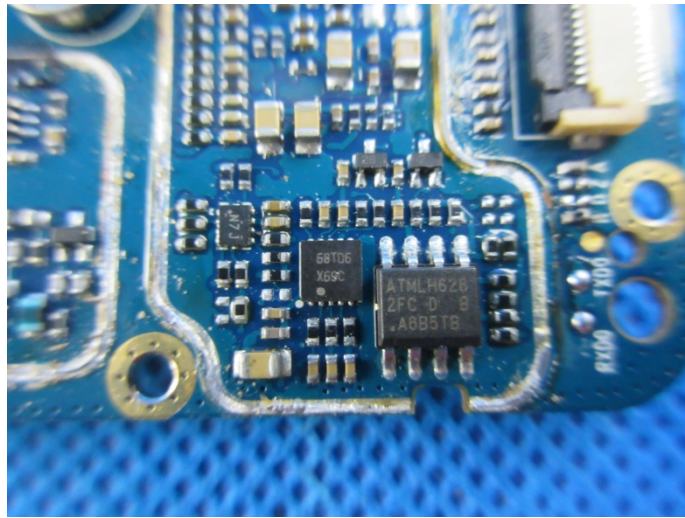












.....End of Report.....