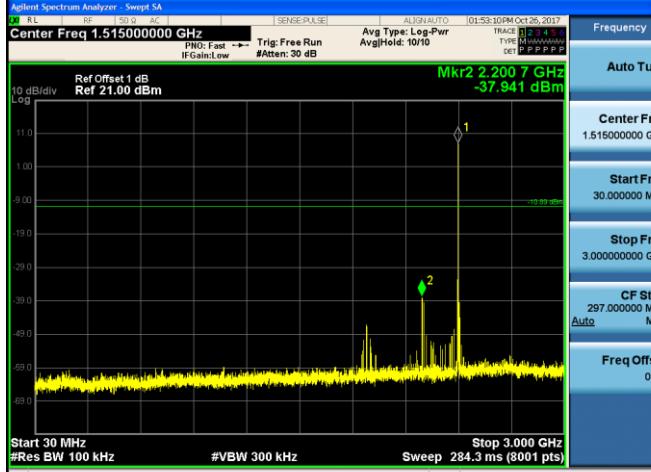
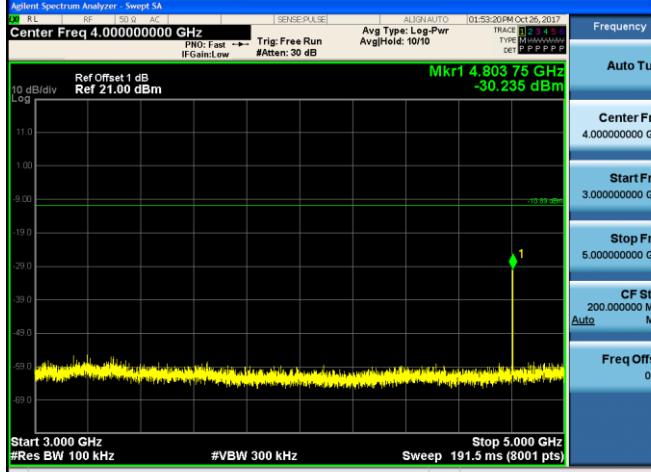
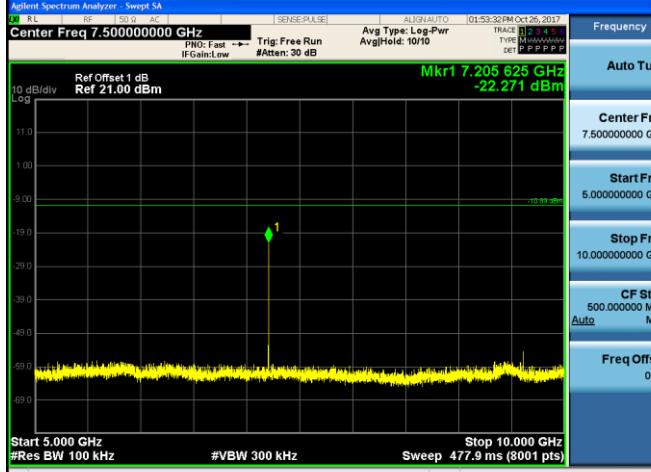
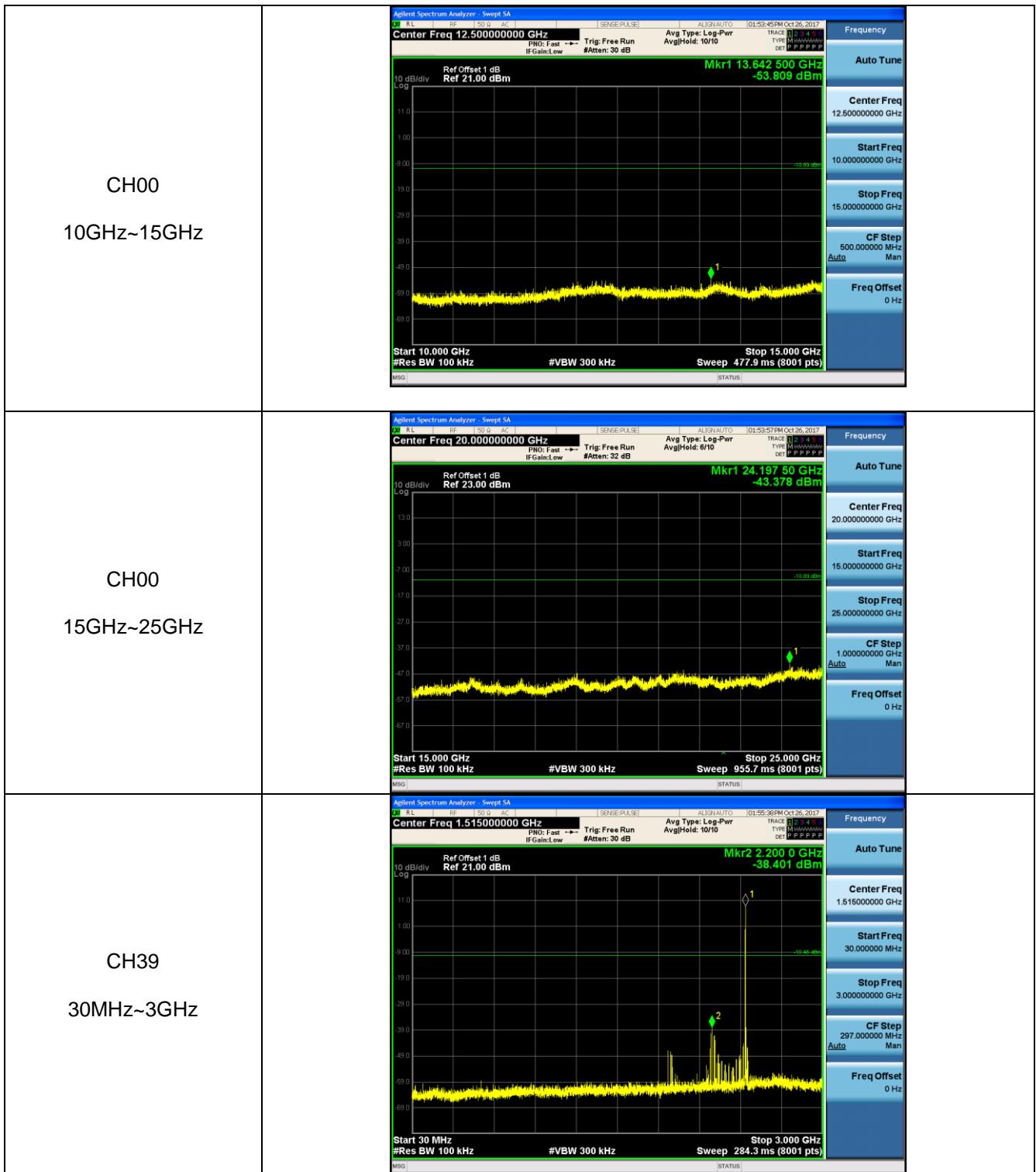
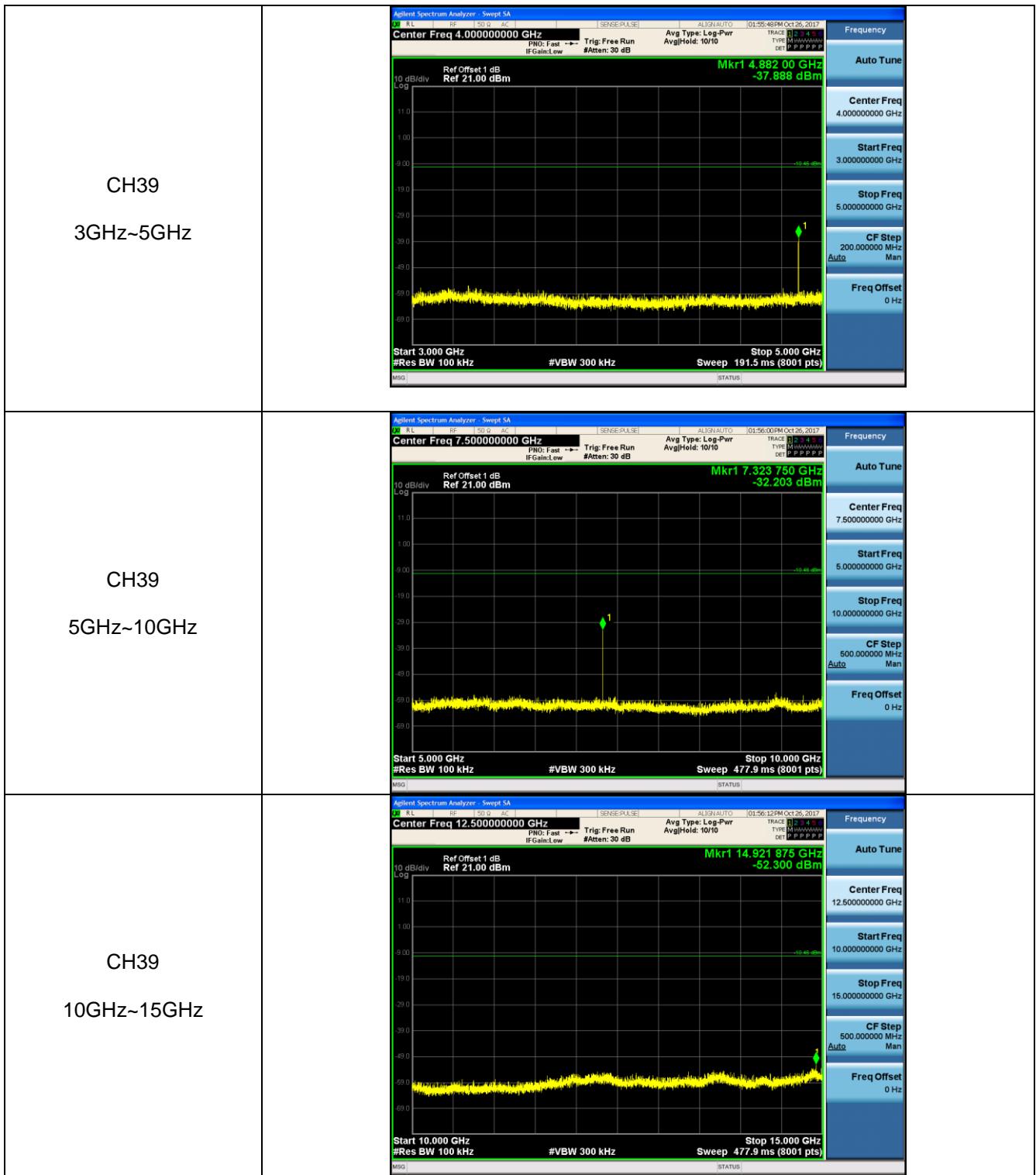
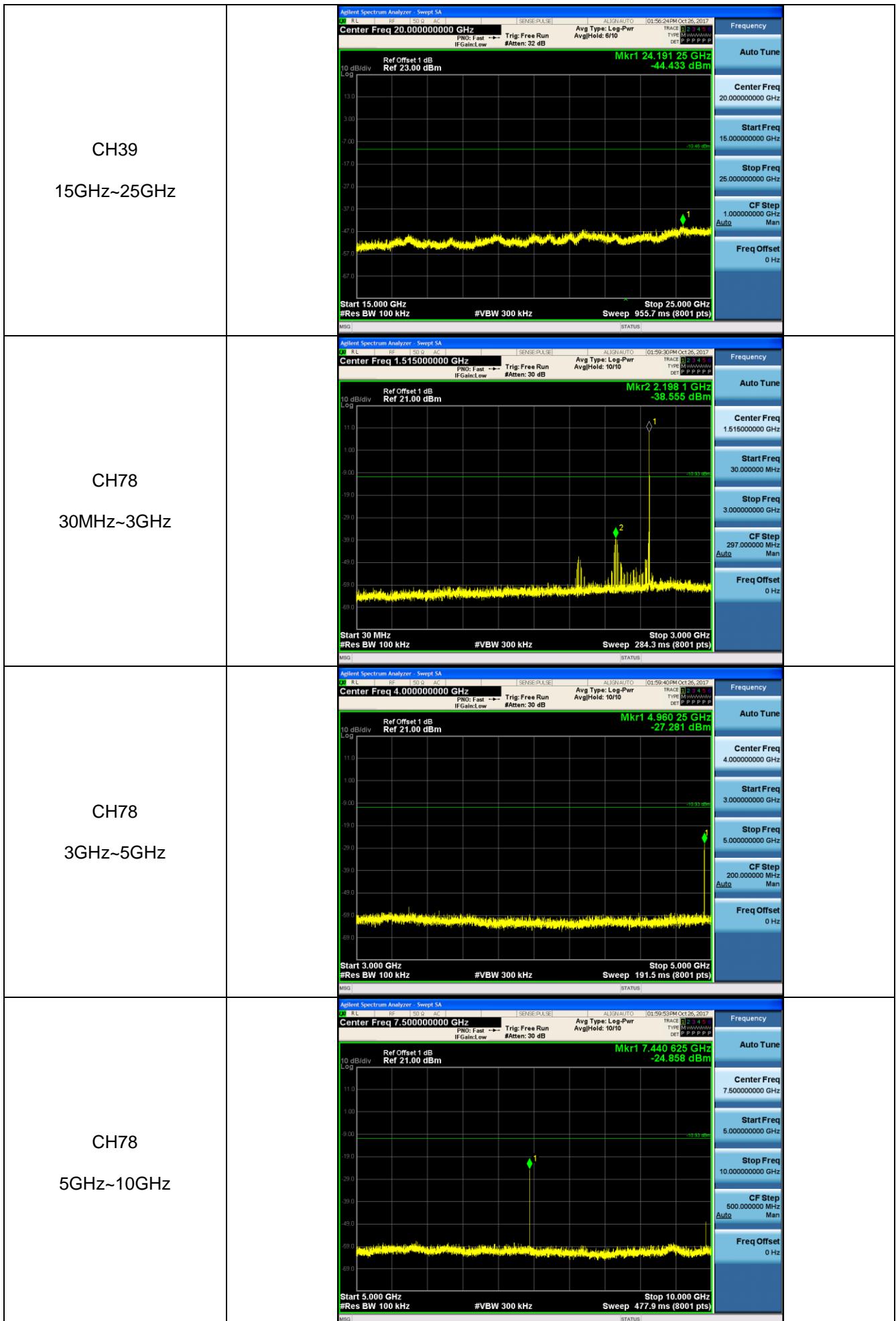
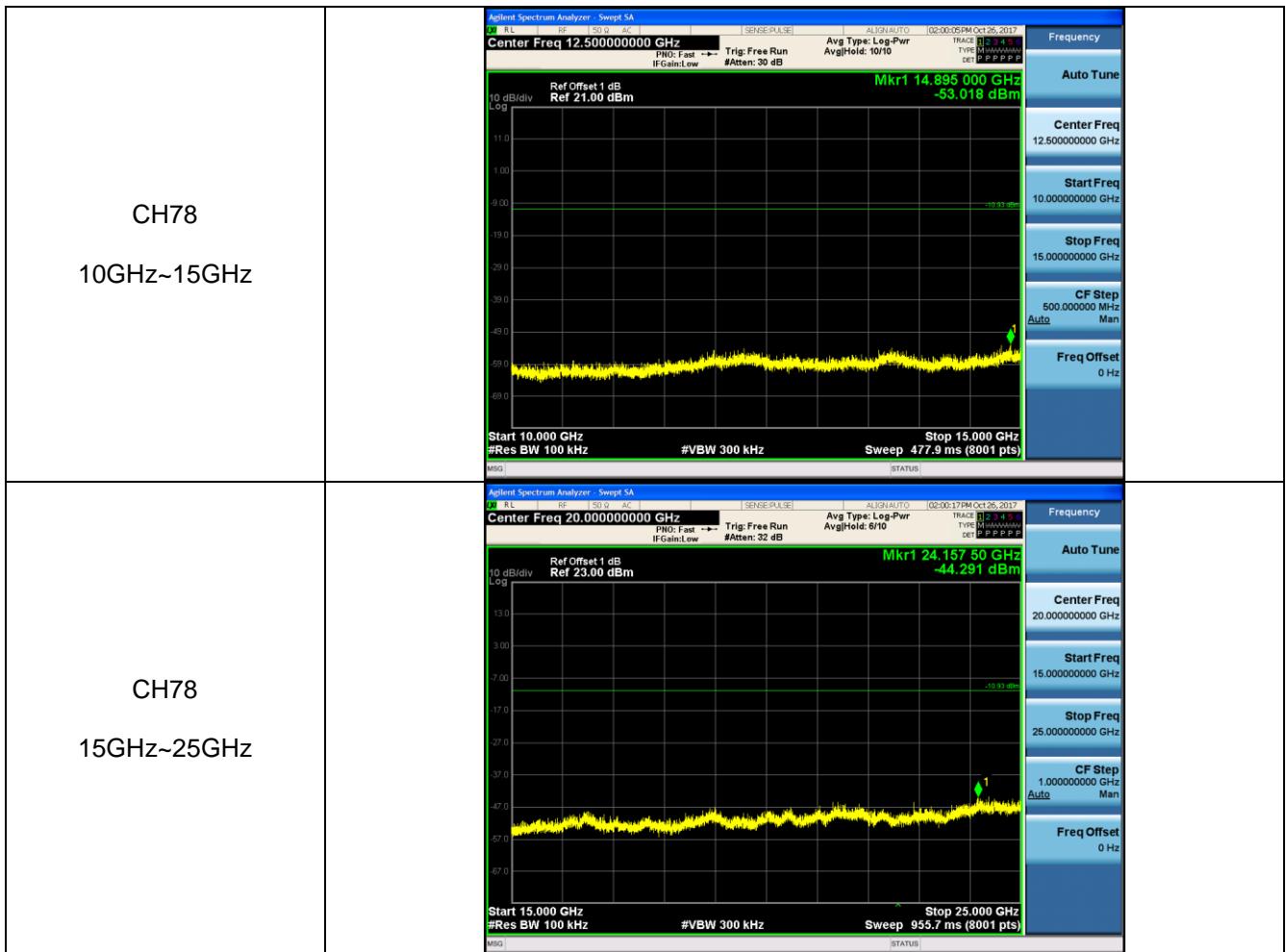


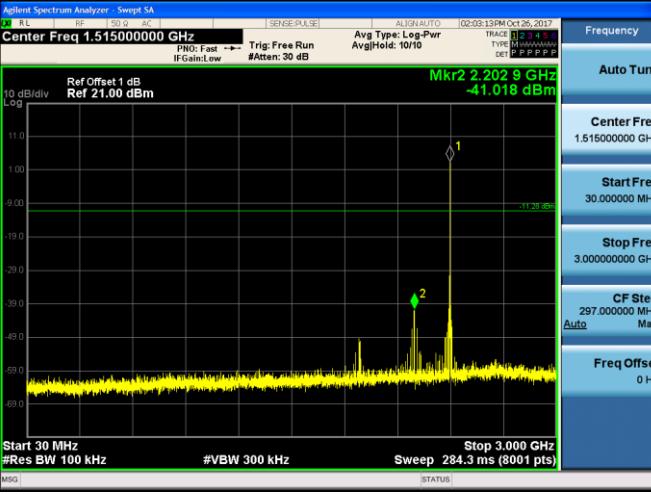
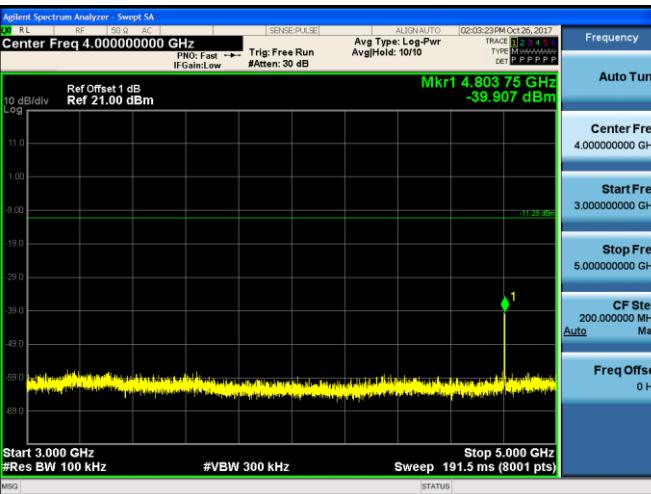
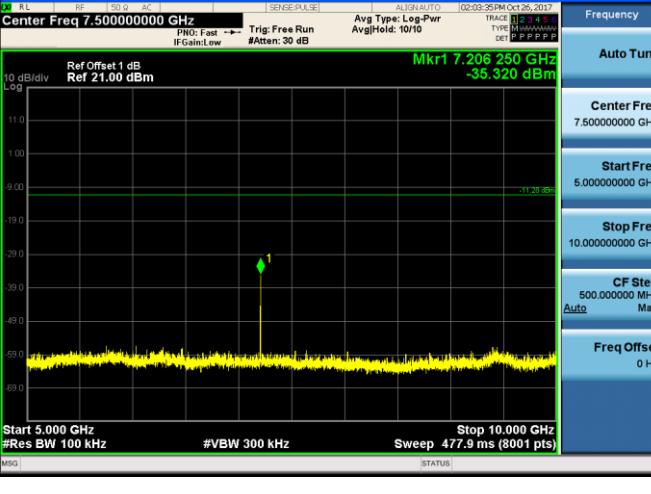
Test Item:	SE	Modulation type:	GFSK
CH00 30MHz~3GHz			Frequency: Auto Tune Center Freq: 1.515000000 GHz Start Freq: 30.000000 MHz Stop Freq: 3.000000000 GHz CF Step: 297.000000 MHz Auto Man Freq Offset: 0 Hz
CH00 3GHz~5GHz			Frequency: Auto Tune Center Freq: 4.000000000 GHz Start Freq: 3.000000000 GHz Stop Freq: 5.000000000 GHz CF Step: 200.000000 MHz Auto Man Freq Offset: 0 Hz
CH00 5GHz~10GHz			Frequency: Auto Tune Center Freq: 7.500000000 GHz Start Freq: 5.000000000 GHz Stop Freq: 10.000000000 GHz CF Step: 500.000000 MHz Auto Man Freq Offset: 0 Hz

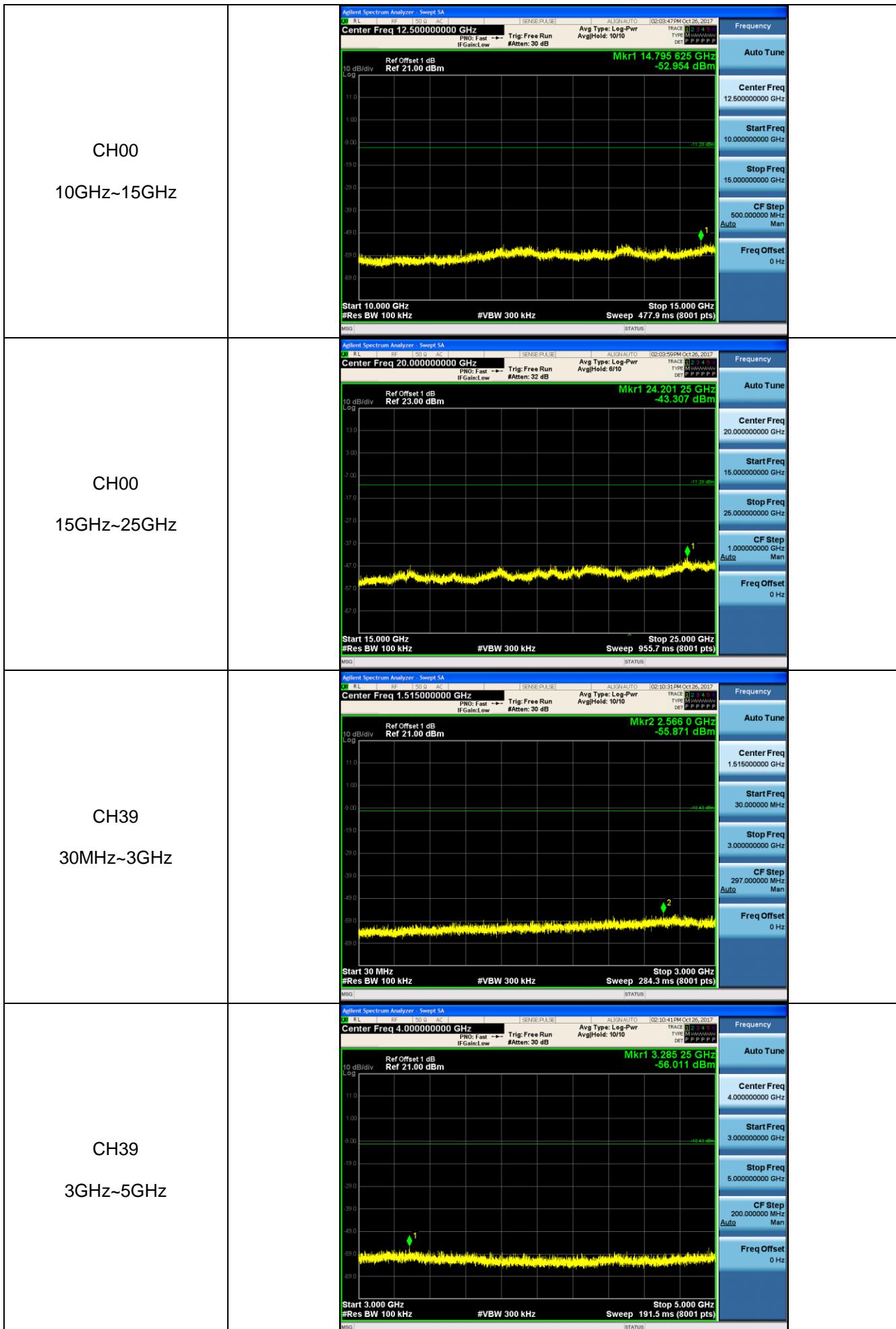


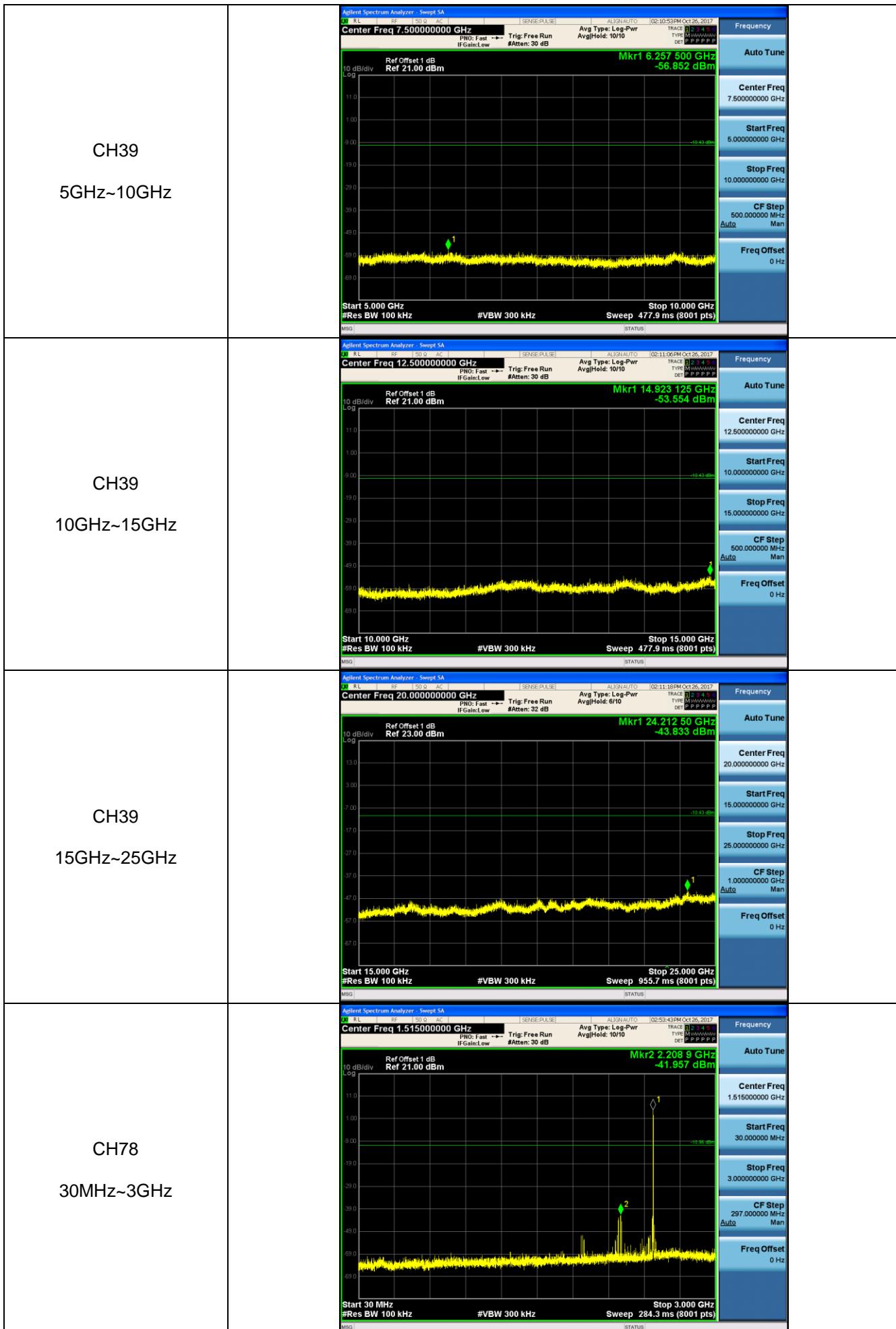


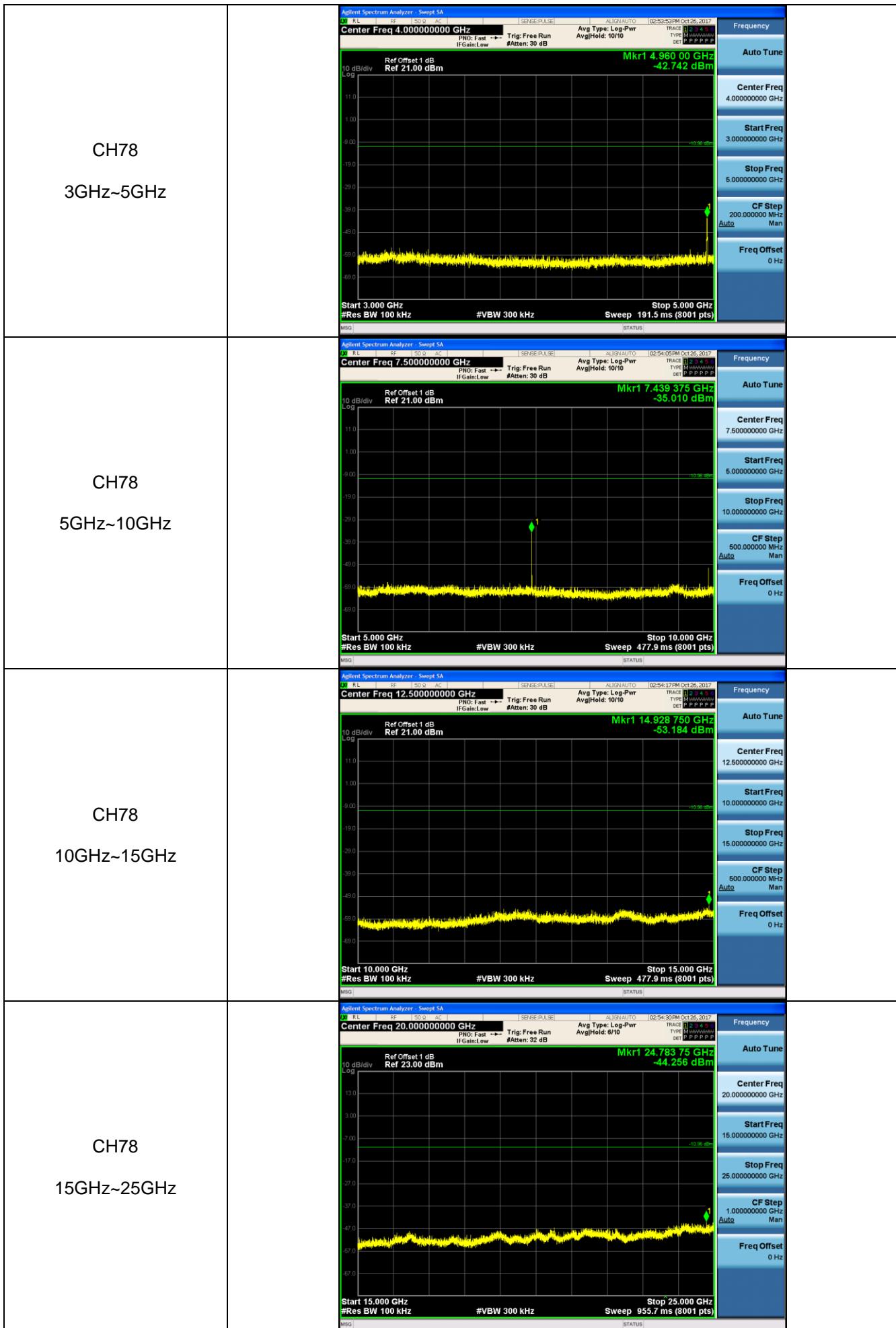


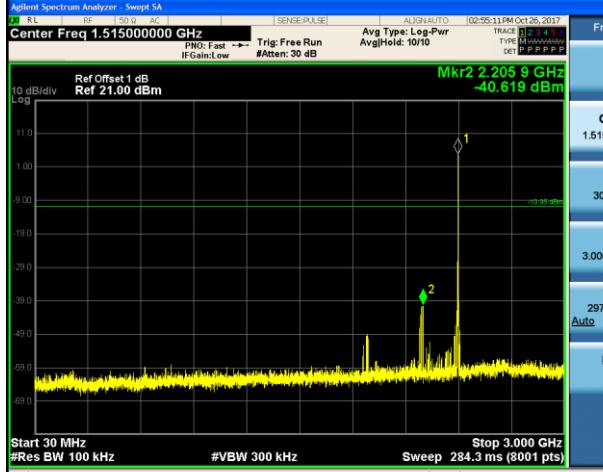
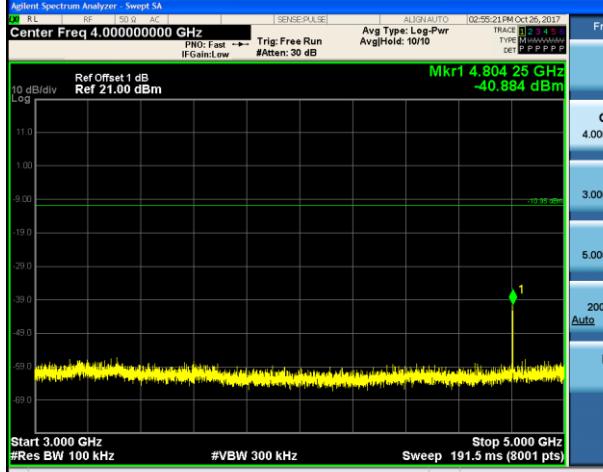
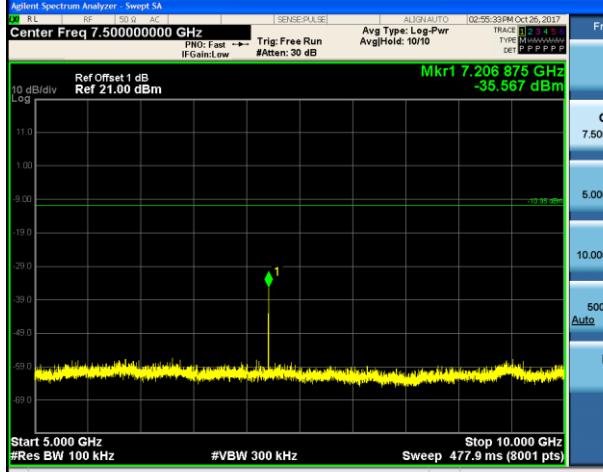


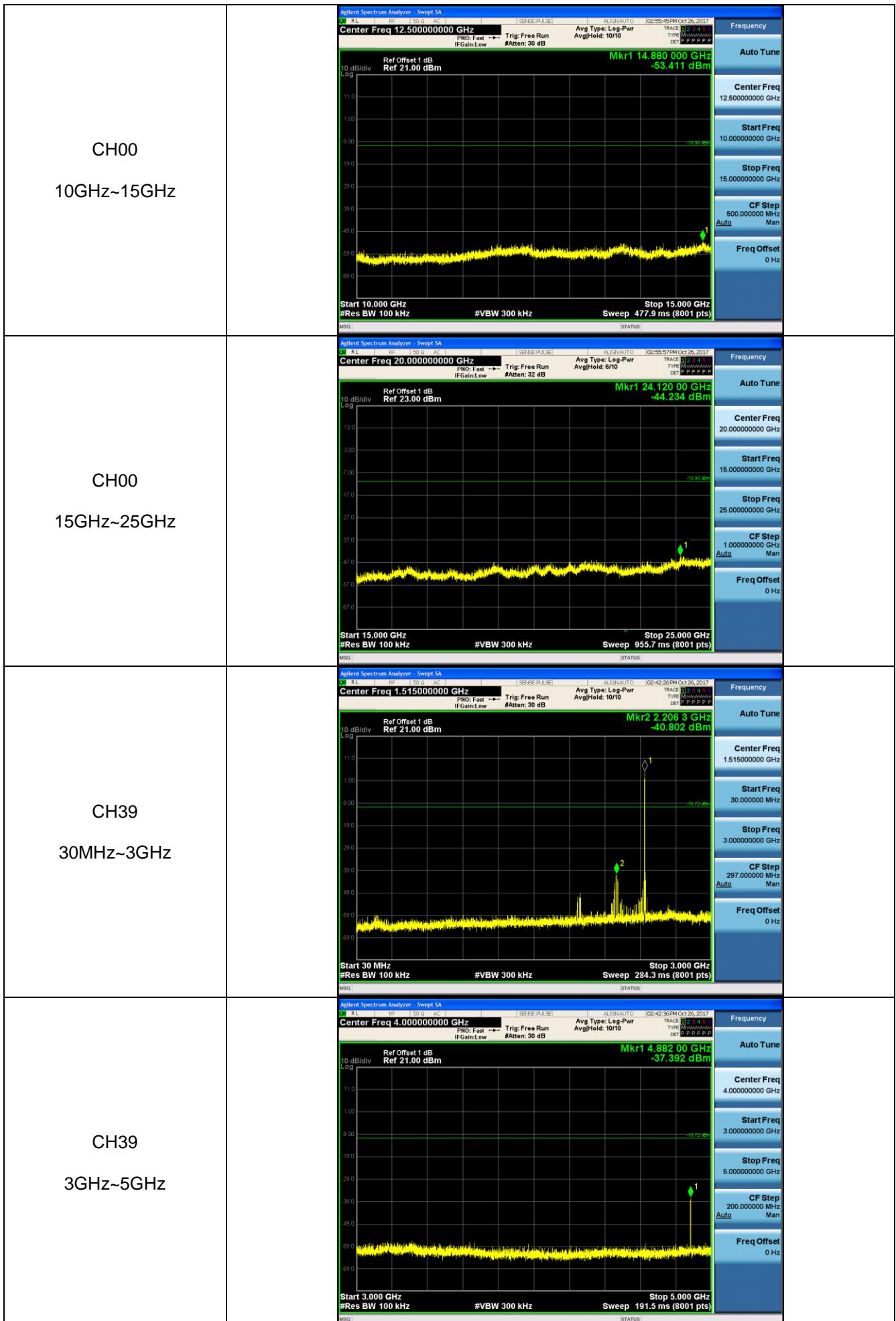
Test Item:	SE	Modulation type:	π/4DQPSK
CH00 30MHz~3GHz			
CH00 3GHz~5GHz			
CH00 5GHz~10GHz			

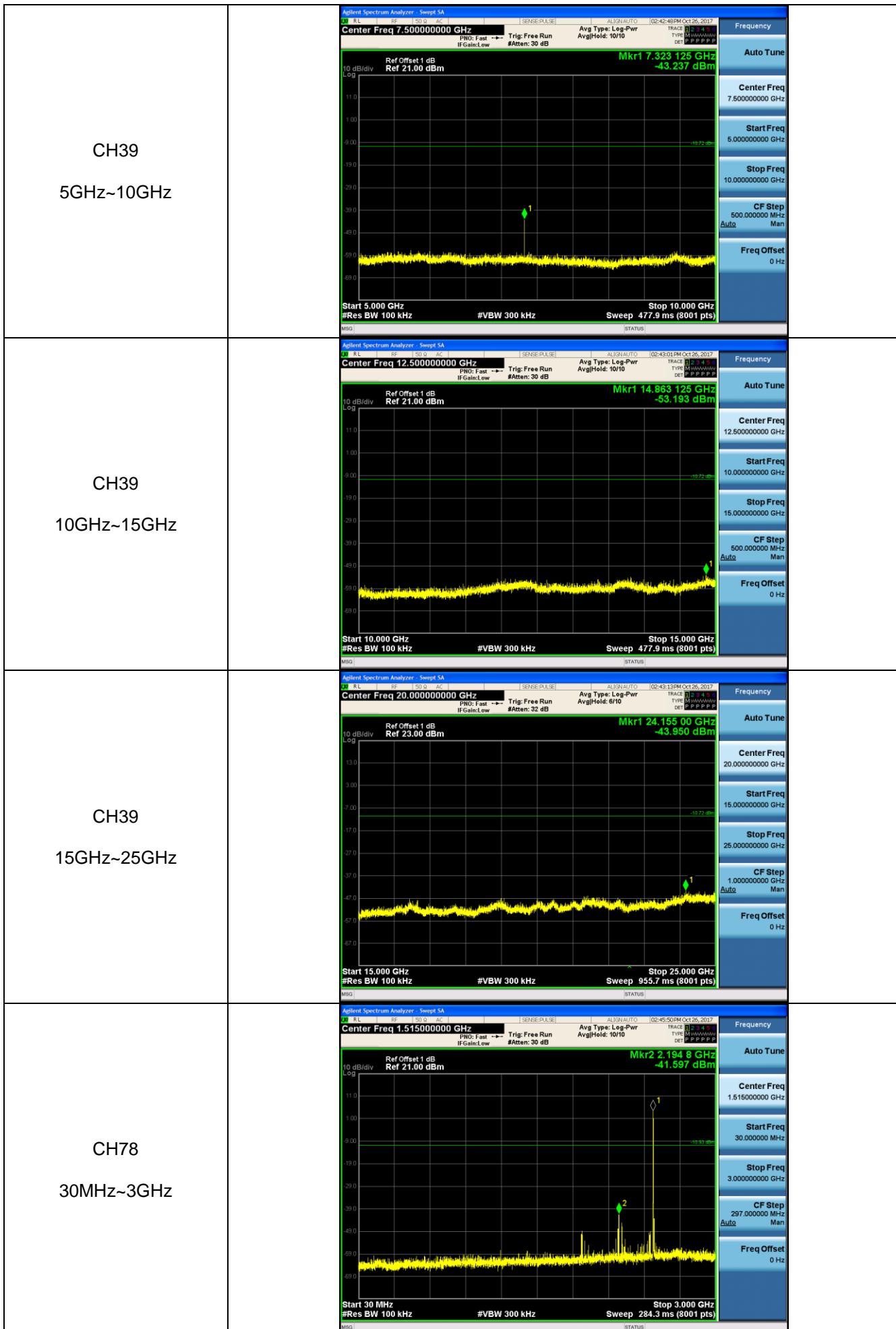


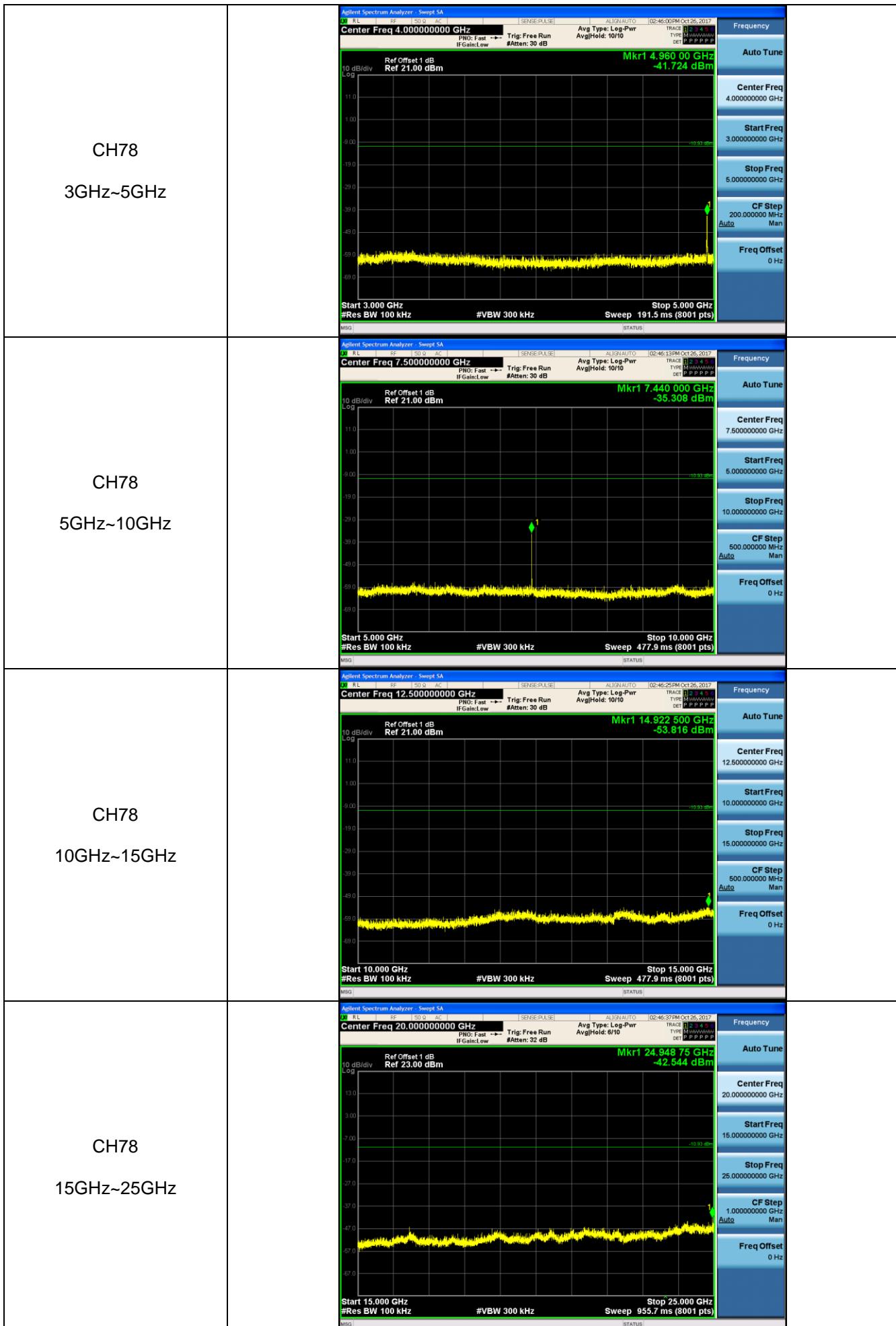




Test Item:	SE	Modulation type:
CH00 30MHz~3GHz		 <p>Agilent Spectrum Analyzer - Sweep SA RL RF 50 Ω AC SENSE-PULSE ALIGN:AUTO [02:55:11PM Oct 25, 2017] Center Freq 1.515000000 GHz PWD: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 10/10 IF Gain: Low TYPE: Min/Max DET: P,P,P,P,P,P Ref Offset 1 dB Ref 21.00 dBm Mkr2 2.205 9 GHz -40.619 dBm 10 dB/div Log Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 284.3 ms (8001 pts) MNG STATUS</p>
CH00 3GHz~5GHz		 <p>Agilent Spectrum Analyzer - Sweep SA RL RF 50 Ω AC SENSE-PULSE ALIGN:AUTO [02:55:21PM Oct 25, 2017] Center Freq 4.000000000 GHz PWD: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 10/10 IF Gain: Low TYPE: Min/Max DET: P,P,P,P,P,P Ref Offset 1 dB Ref 21.00 dBm Mkr1 4.804 25 GHz -40.884 dBm 10 dB/div Log Start 3.000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 5.000 GHz Sweep 191.5 ms (8001 pts) MNG STATUS</p>
CH00 5GHz~10GHz		 <p>Agilent Spectrum Analyzer - Sweep SA RL RF 50 Ω AC SENSE-PULSE ALIGN:AUTO [02:55:33PM Oct 25, 2017] Center Freq 7.500000000 GHz PWD: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 10/10 IF Gain: Low TYPE: Min/Max DET: P,P,P,P,P,P Ref Offset 1 dB Ref 21.00 dBm Mkr1 7.206 875 GHz -35.567 dBm 10 dB/div Log Start 5.000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 10.000 GHz Sweep 477.9 ms (8001 pts) MNG STATUS</p>







5.11. Spurious Emissions (radiated)

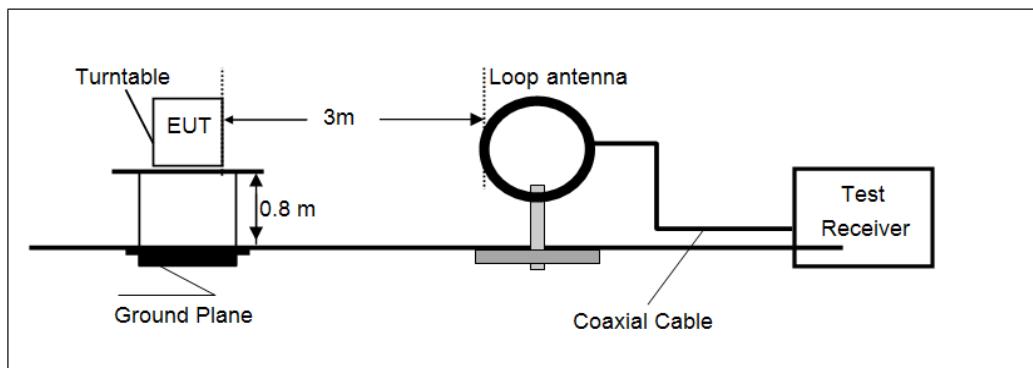
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

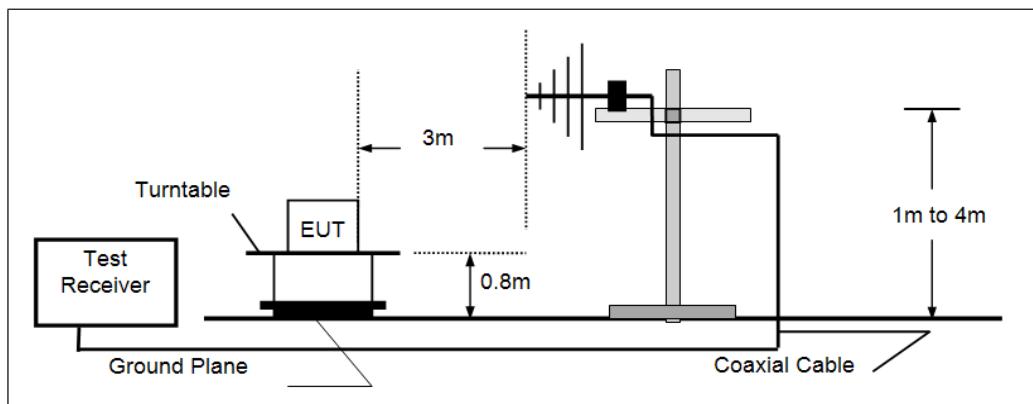
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

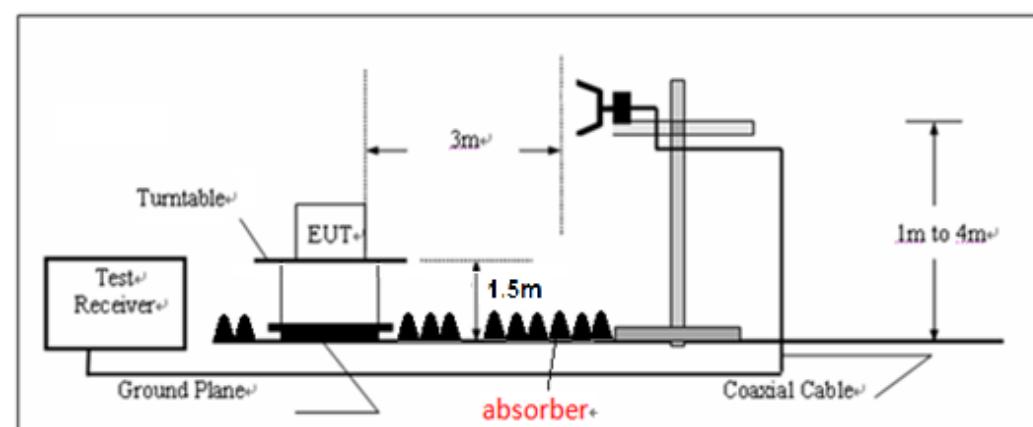
- 9KHz ~30MHz



- 30MHz ~ 1GHz



- Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 0.8/1.5 meter above ground plane. 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 be wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, 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 1GHz, RBW=1MHz, VBW=3MHz Peak detector for Peak value
RBW=1MHz, VBW=10Hz Peak detector for Average value.

Remark: "floor-standing equipment" Where possible, the antenna(s) of the EUT shall be located at a height of 1.5 m above the floor, and the intentional radiator circuitry shall be located within the system at a height of at least 0.8 m above the floor.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable

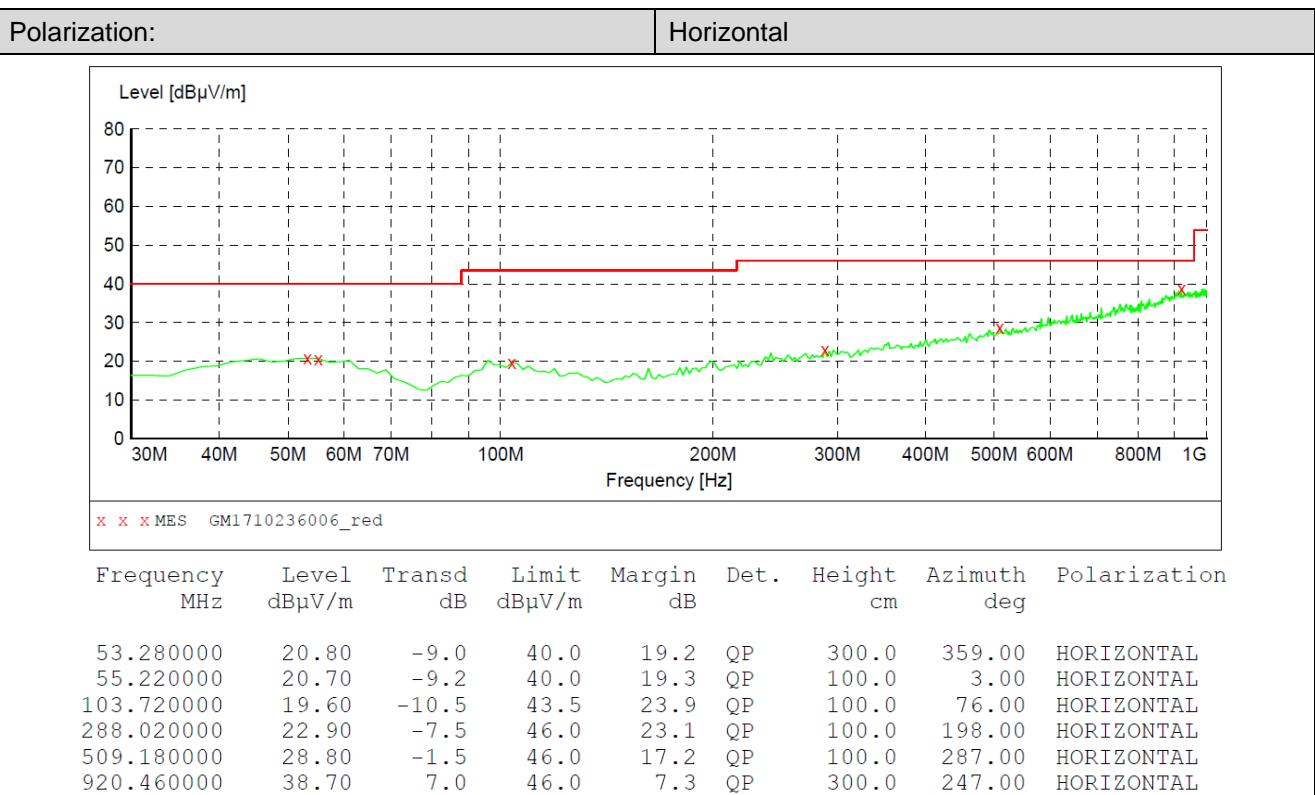
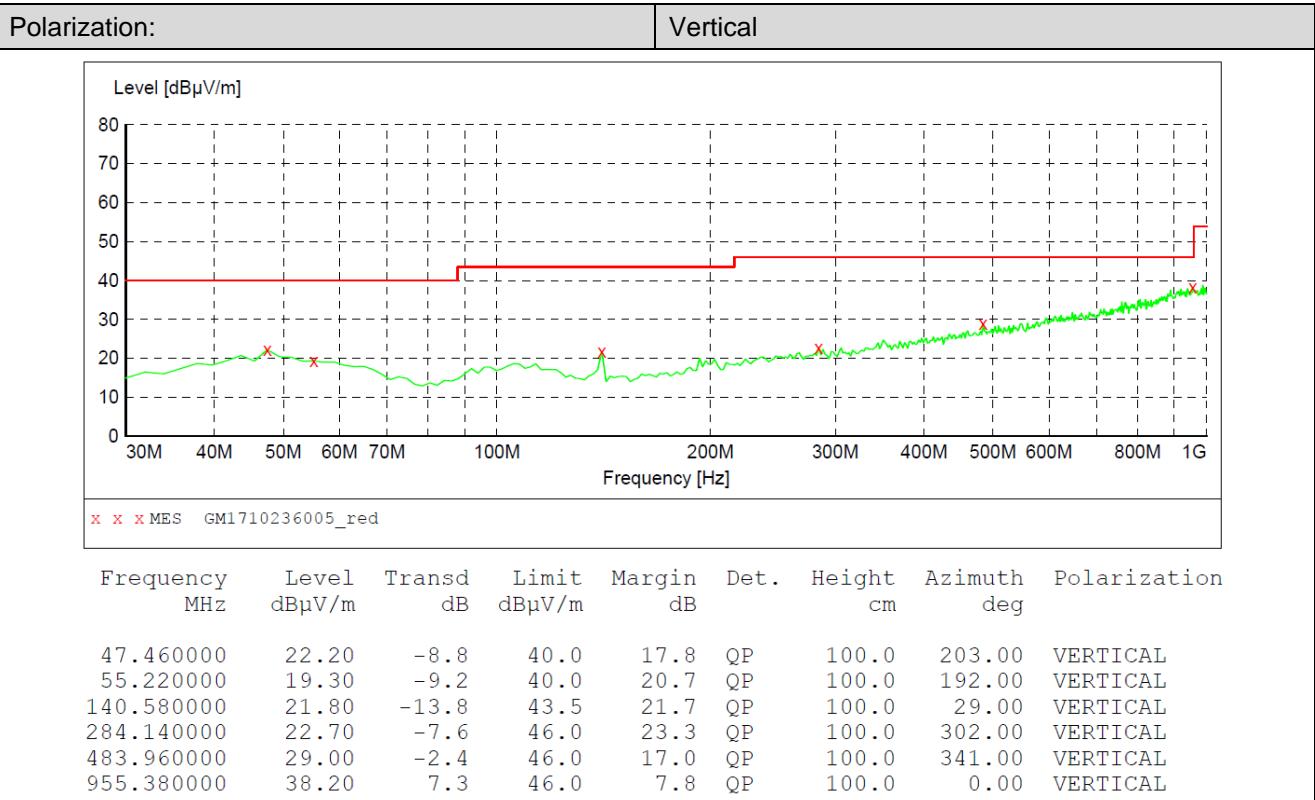
Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) **, means this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) 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.

➤ 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9KHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

> 30MHz ~ 1GHz



> Above 1GHz

CH00									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
7209.02	37.63	36.21	11.87	35.07	50.64	54.00	-3.36	Horizontal	Average
1238.41	51.33	26.26	4.73	36.55	45.77	74.00	-28.23	Horizontal	Peak
2212.68	51.21	27.58	6.46	37.38	47.87	74.00	-26.13	Horizontal	
4809.50	39.80	31.58	9.55	36.93	44.00	74.00	-30.00	Horizontal	
7209.02	58.65	36.21	11.87	35.07	71.66	74.00	-2.34	Horizontal	
7209.02	38.93	36.21	11.87	35.07	51.94	54.00	-2.06	Vertical	Average
1597.40	41.47	24.92	5.56	36.72	35.23	74.00	-38.77	Vertical	Peak
3003.17	41.62	28.61	7.48	38.23	39.48	74.00	-34.52	Vertical	
4809.50	44.66	31.58	9.55	36.93	48.86	74.00	-25.14	Vertical	
7209.02	58.37	36.21	11.87	35.07	71.38	74.00	-2.62	Vertical	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

CH39									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
7338.62	35.26	36.30	12.01	34.90	48.67	54.00	-5.33	Horizontal	Average
2201.45	48.10	27.51	6.44	37.34	44.71	74.00	-29.29	Horizontal	Peak
2987.92	42.69	28.59	7.47	38.24	40.51	74.00	-33.49	Horizontal	
4883.52	37.67	31.43	9.59	36.73	41.96	74.00	-32.04	Horizontal	
7338.62	57.30	36.30	12.01	34.90	70.71	74.00	-3.29	Horizontal	
7319.96	38.56	36.30	11.99	34.92	51.93	54.00	-2.07	Vertical	Average
1904.12	43.83	25.34	6.12	37.22	38.07	74.00	-35.93	Vertical	Peak
2207.06	47.17	27.54	6.45	37.36	43.80	74.00	-30.20	Vertical	
4524.47	34.14	30.75	9.34	37.35	36.88	74.00	-37.12	Vertical	
7319.96	59.06	36.30	11.99	34.92	72.43	74.00	-1.57	Vertical	

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

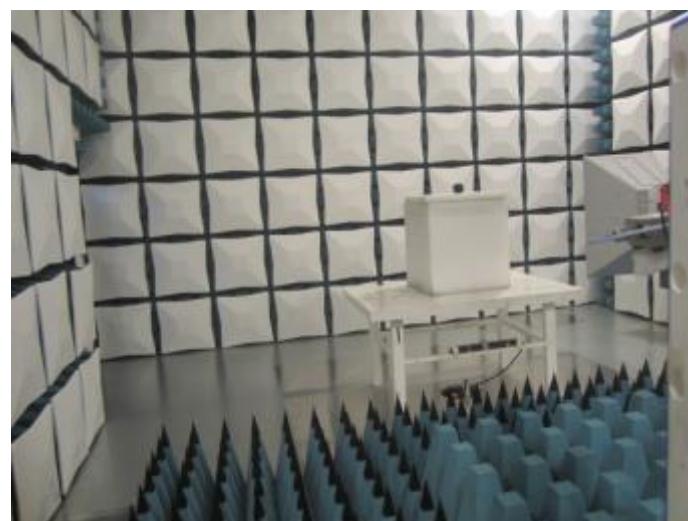
CH78									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
7451.57	38.15	36.20	12.24	34.86	51.73	54.00	-2.27	Horizontal	Average
2201.45	48.62	27.51	6.44	37.34	45.23	74.00	-28.77	Horizontal	Peak
2995.54	44.56	28.60	7.48	38.23	42.41	74.00	-31.59	Horizontal	
4958.68	49.59	31.46	9.64	36.52	54.17	74.00	-19.83	Horizontal	
7451.57	57.14	36.20	12.24	34.86	70.72	74.00	-3.28	Horizontal	
7451.57	38.40	36.20	12.24	34.86	51.98	54.00	-2.02	Vertical	Average
2212.68	51.77	27.58	6.46	37.38	48.43	74.00	-25.57	Vertical	Peak
3738.13	36.63	29.42	8.43	38.24	36.24	74.00	-37.76	Vertical	
4958.68	45.55	31.46	9.64	36.52	50.13	74.00	-23.87	Vertical	
7451.57	54.73	36.20	12.24	34.86	68.31	74.00	-5.69	Vertical	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

6. Test Setup Photos of the EUT

Radiated Emissions



7. External and Internal Photos of the EUT

External Photos of the EUT

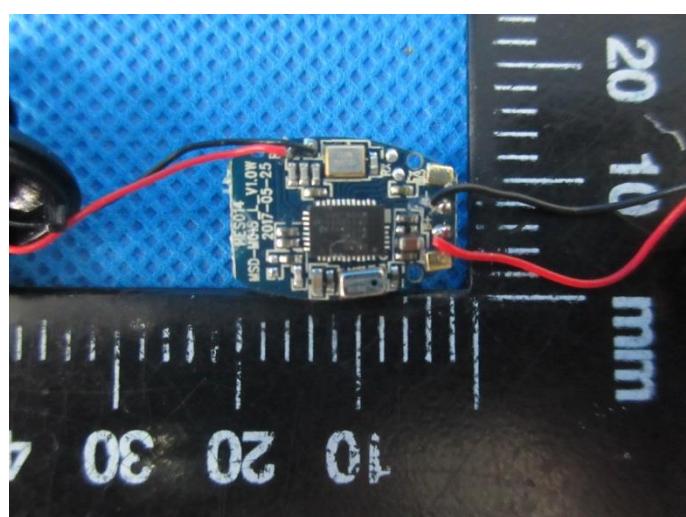
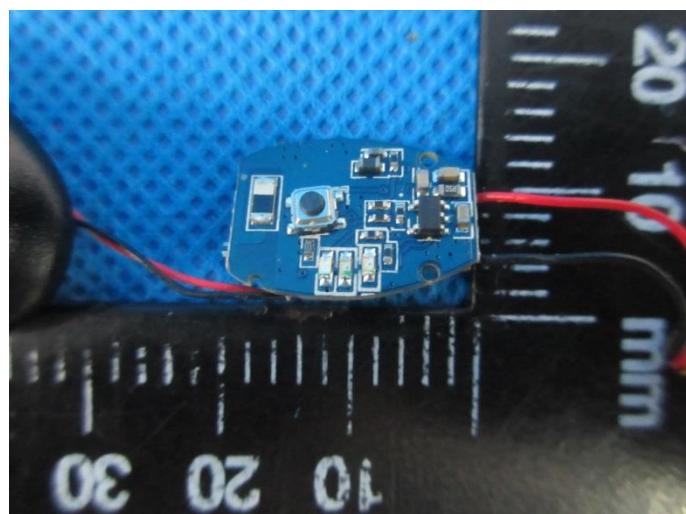
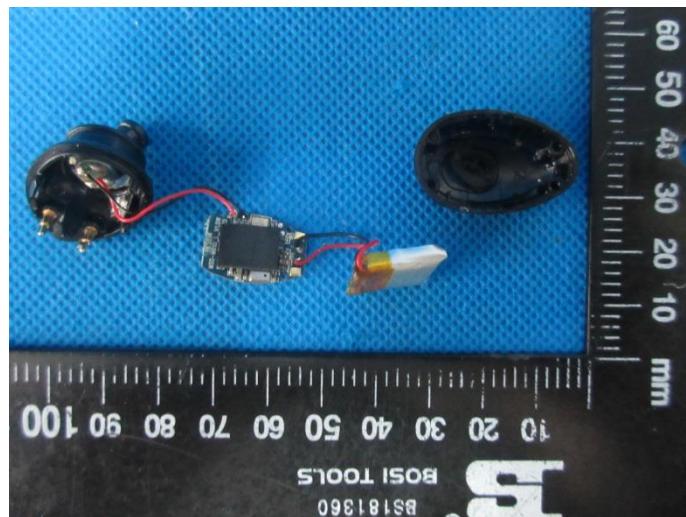


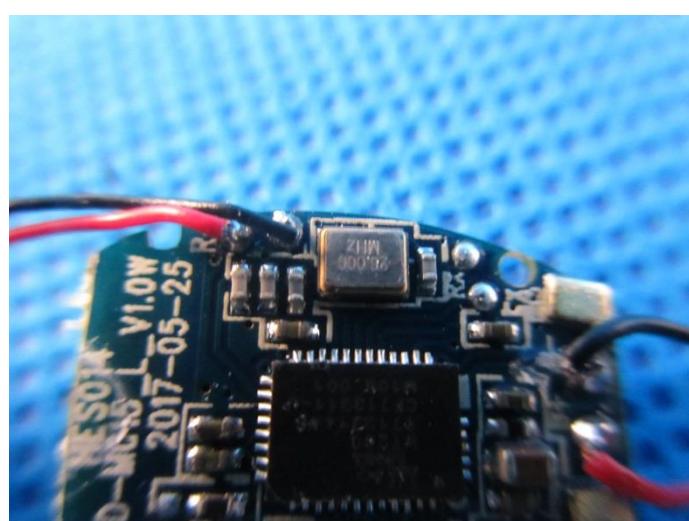
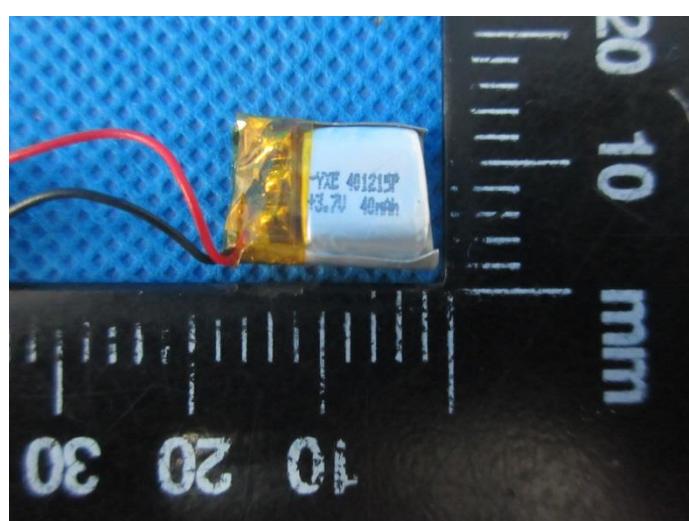
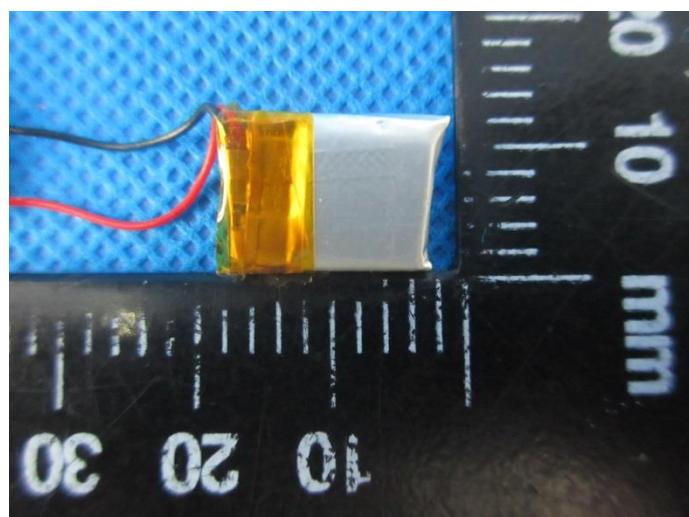


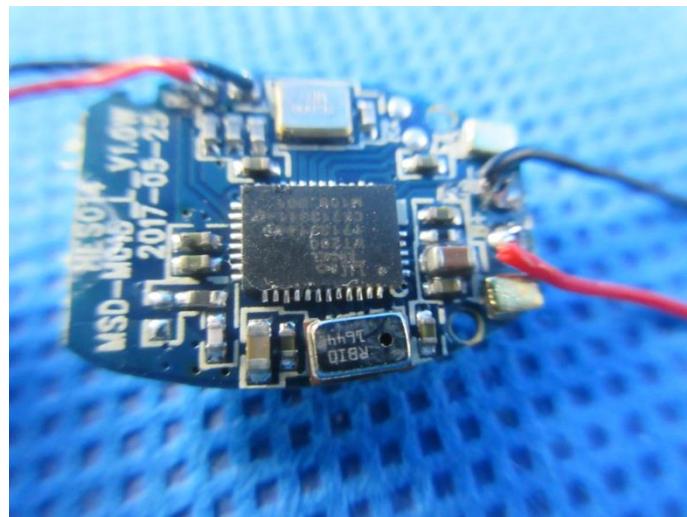


Internal Photos of the EUT

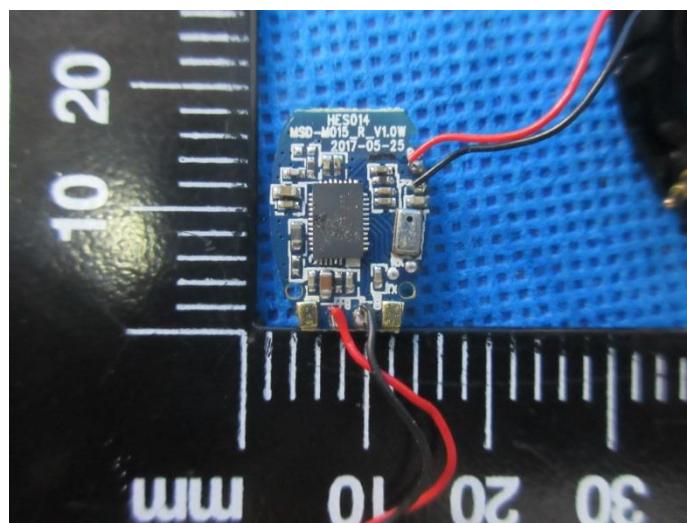
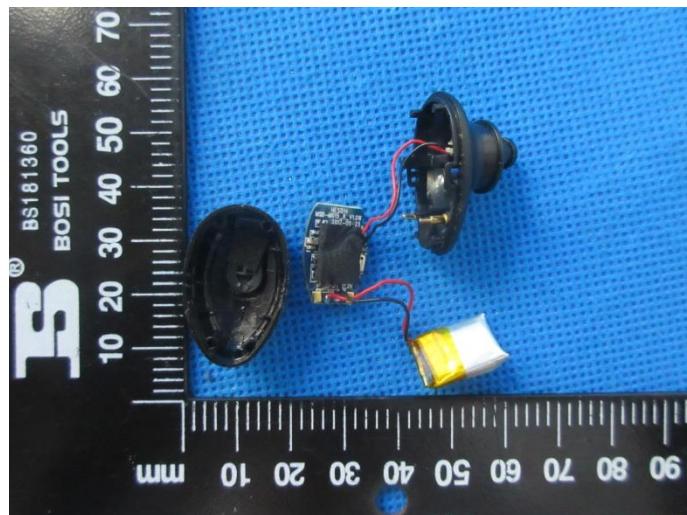
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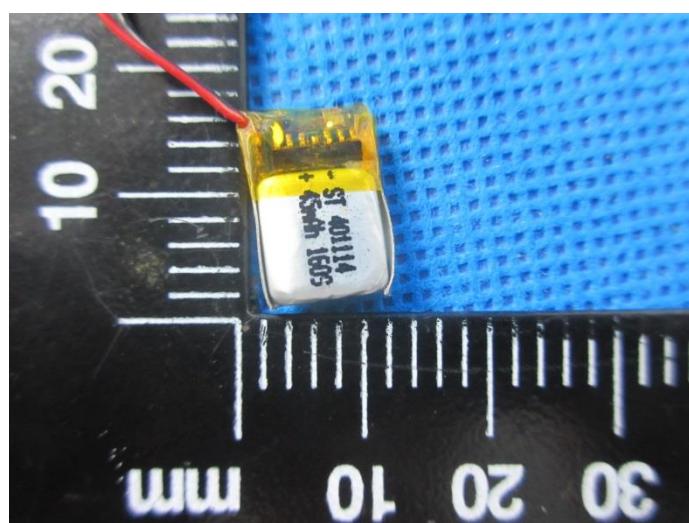
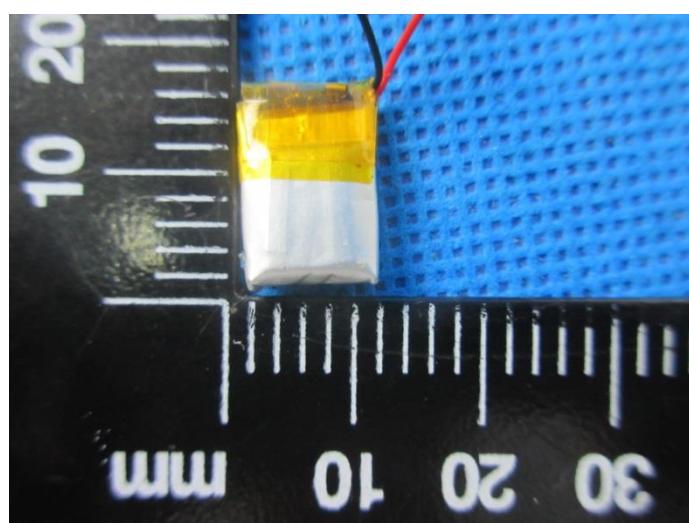
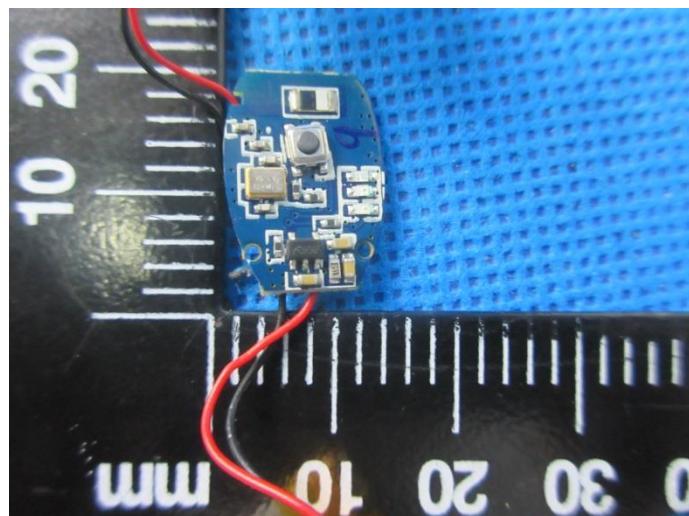


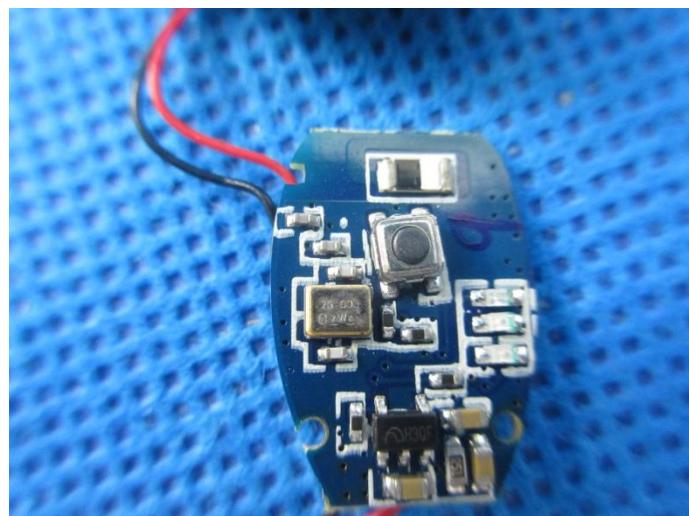




Left earphone:







-----End of Report-----