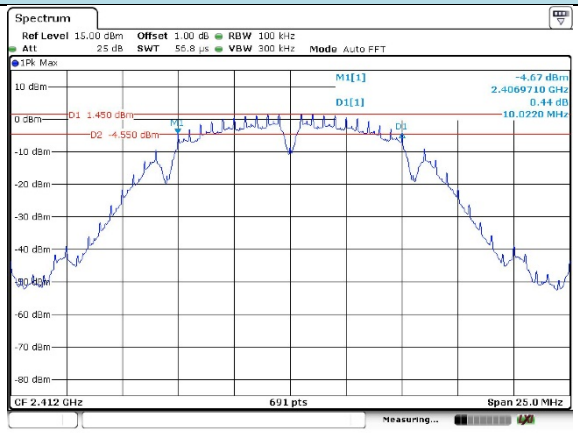
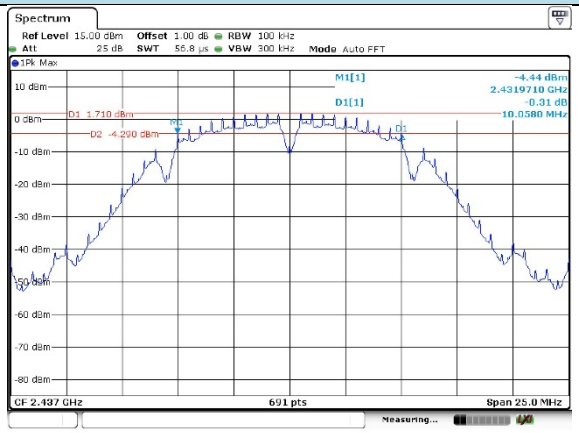
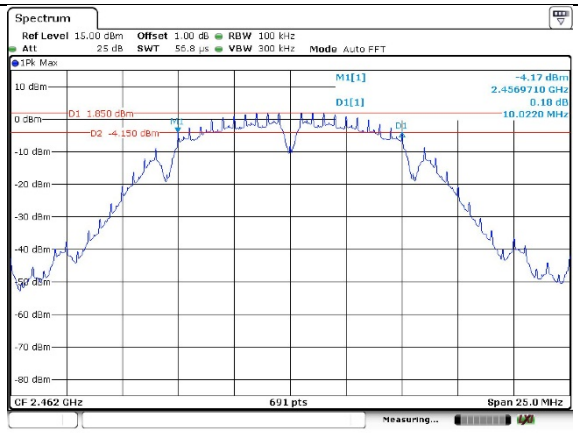
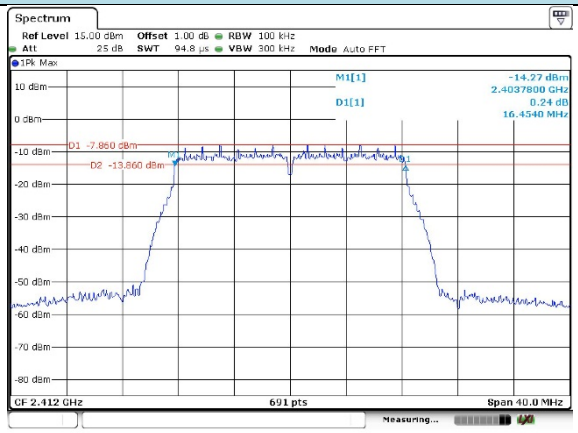
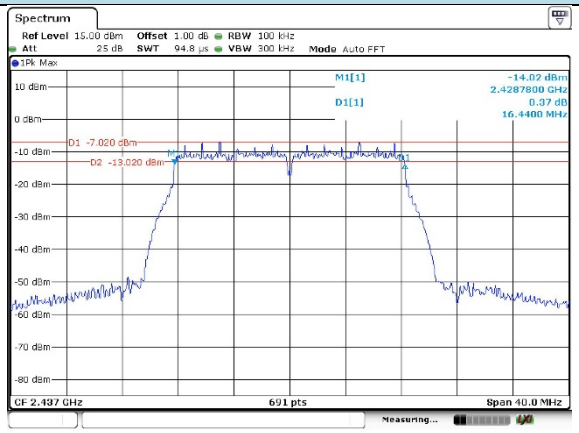
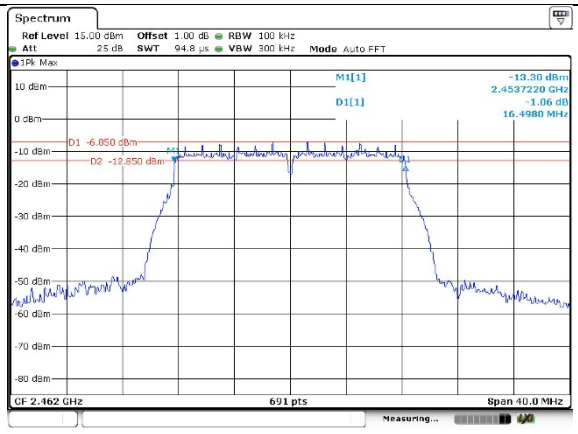
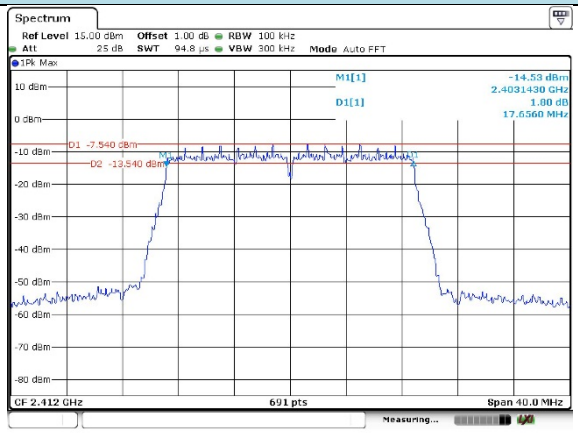
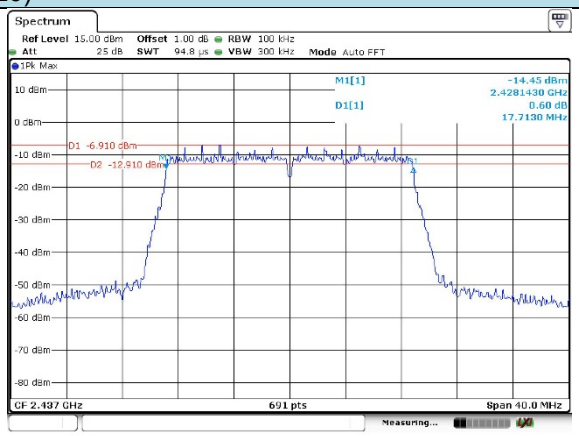
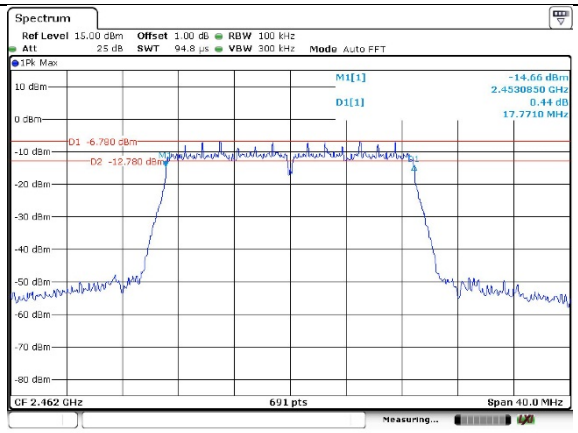
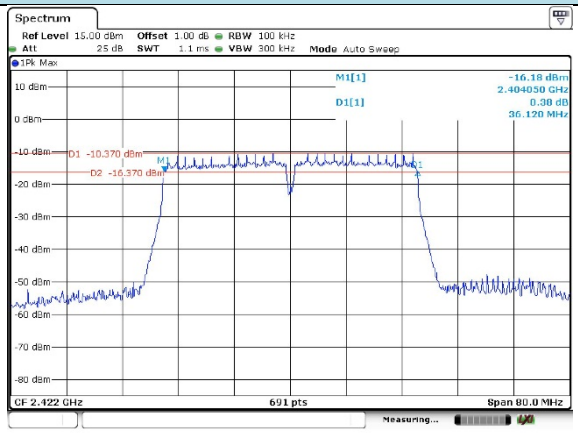
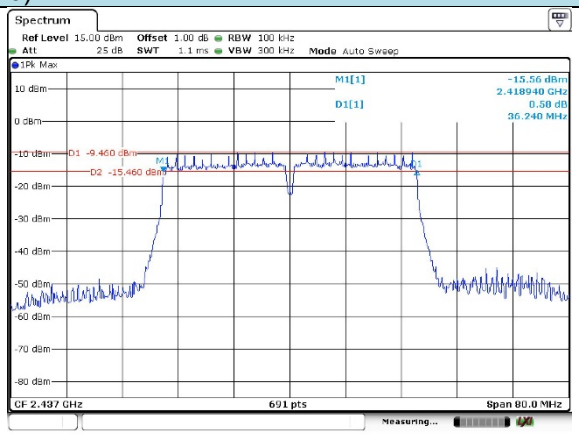
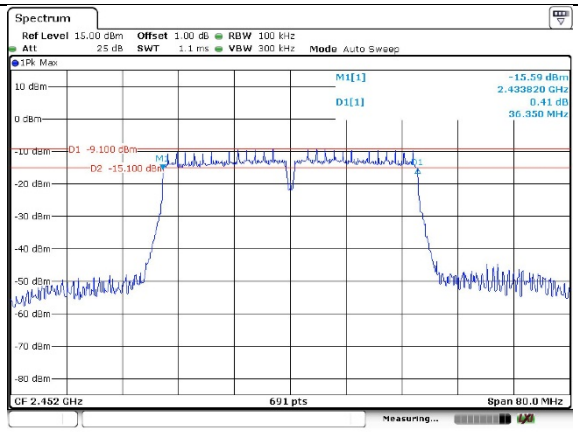
802.11b	
	
CH01	*CH06*
	*No Plot*
CH11	-

802.11g	
	
CH01	*CH06*
	*No Plot*
CH11	-

802.11n(H20)	
	
CH01	*CH06*
	*No Plot*
CH11	-

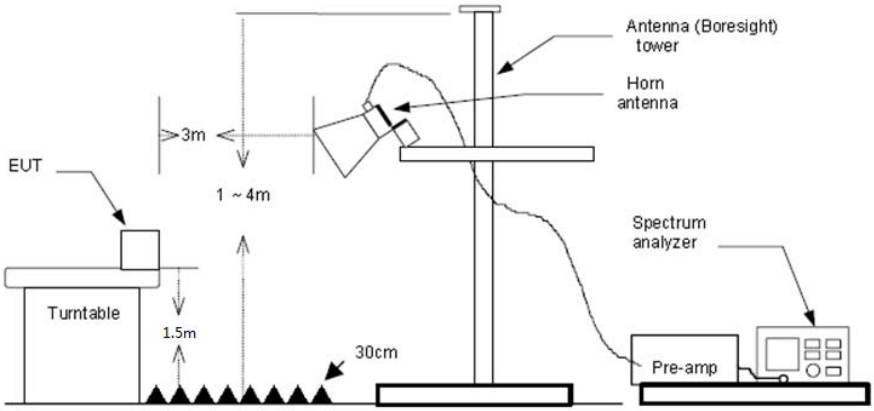
802.11n(H40)	
	
CH03	*CH06*
	*No Plot*
CH09	-

5.6. Restricted band

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1) The EUT was setup and 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 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3) The EUT waspositioned 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. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5) The receiver set as follow:
   RBW=1MHz, VBW=3MHz for Peak value
   RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note:
1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

802.11b					CH01				
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
2310.00	26.80	28.05	6.62	0.00	61.47	74.00	-12.53	Vertical	Peak
2390.00	26.28	27.65	6.75	0.00	60.68	74.00	-13.32	Vertical	
2310.00	27.04	28.05	6.62	0.00	61.71	74.00	-12.29	Horizontal	
2390.00	26.38	27.65	6.75	0.00	60.78	74.00	-13.22	Horizontal	
2310.00	13.06	28.05	6.62	0.00	47.73	54.00	-6.27	Vertical	Average
2390.00	12.82	27.65	6.75	0.00	47.22	54.00	-6.78	Vertical	
2310.00	13.01	28.05	6.62	0.00	47.68	54.00	-6.32	Horizontal	
2390.00	12.72	27.65	6.75	0.00	47.12	54.00	-6.88	Horizontal	

802.11b					CH11				
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
2483.50	26.11	27.26	6.83	0.00	60.20	74.00	-13.80	Vertical	Peak
2500.00	26.80	27.20	6.84	0.00	60.84	74.00	-13.16	Vertical	
2483.50	26.84	27.26	6.83	0.00	60.93	74.00	-13.07	Horizontal	
2500.00	26.42	27.20	6.84	0.00	60.46	74.00	-13.54	Horizontal	
2483.50	12.85	27.26	6.83	0.00	46.94	54.00	-7.06	Vertical	Average
2500.00	12.68	27.20	6.84	0.00	46.72	54.00	-7.28	Vertical	
2483.50	12.83	27.26	6.83	0.00	46.92	54.00	-7.08	Horizontal	
2500.00	12.67	27.20	6.84	0.00	46.71	54.00	-7.29	Horizontal	

802.11g					CH01				
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
2310.00	25.98	28.05	6.62	0.00	60.65	74.00	-13.35	Vertical	Peak
2390.00	26.80	27.65	6.75	0.00	61.20	74.00	-12.80	Vertical	
2310.00	27.10	28.05	6.62	0.00	61.77	74.00	-12.23	Horizontal	
2390.00	27.56	27.65	6.75	0.00	61.96	74.00	-12.04	Horizontal	
2310.00	13.02	28.05	6.62	0.00	47.69	54.00	-6.31	Vertical	Average
2390.00	15.05	27.65	6.75	0.00	49.45	54.00	-4.55	Vertical	
2310.00	13.04	28.05	6.62	0.00	47.71	54.00	-6.29	Horizontal	
2390.00	14.22	27.65	6.75	0.00	48.62	54.00	-5.38	Horizontal	

802.11g					CH11				
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
2483.50	27.20	27.26	6.83	0.00	61.29	74.00	-12.71	Vertical	Peak
2500.00	26.64	27.20	6.84	0.00	60.68	74.00	-13.32	Vertical	
2483.50	29.95	27.26	6.83	0.00	64.04	74.00	-9.96	Horizontal	
2500.00	26.57	27.20	6.84	0.00	60.61	74.00	-13.39	Horizontal	
2483.50	15.59	27.26	6.83	0.00	49.68	54.00	-4.32	Vertical	Average
2500.00	13.01	27.20	6.84	0.00	47.05	54.00	-6.95	Vertical	
2483.50	15.33	27.26	6.83	0.00	49.42	54.00	-4.58	Horizontal	
2500.00	12.92	27.20	6.84	0.00	46.96	54.00	-7.04	Horizontal	

802.11n(H20)					CH01				
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
2310.00	26.59	28.05	6.62	0.00	61.26	74.00	-12.74	Vertical	Peak
2390.00	26.88	27.65	6.75	0.00	61.28	74.00	-12.72	Vertical	
2310.00	26.52	28.05	6.62	0.00	61.19	74.00	-12.81	Horizontal	
2390.00	26.48	27.65	6.75	0.00	60.88	74.00	-13.12	Horizontal	
2310.00	13.03	28.05	6.62	0.00	47.70	54.00	-6.30	Vertical	Average
2390.00	13.66	27.65	6.75	0.00	48.06	54.00	-5.94	Vertical	
2310.00	13.03	28.05	6.62	0.00	47.70	54.00	-6.30	Horizontal	
2390.00	12.79	27.65	6.75	0.00	47.19	54.00	-6.81	Horizontal	

802.11n(H20)					CH11				
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
2483.50	26.76	27.26	6.83	0.00	60.85	74.00	-13.15	Vertical	Peak
2500.00	26.97	27.20	6.84	0.00	61.01	74.00	-12.99	Vertical	
2483.50	26.54	27.26	6.83	0.00	60.63	74.00	-13.37	Horizontal	
2500.00	26.02	27.20	6.84	0.00	60.06	74.00	-13.94	Horizontal	
2483.50	16.71	27.26	6.83	0.00	50.80	54.00	-3.20	Vertical	Average
2500.00	12.94	27.20	6.84	0.00	46.98	54.00	-7.02	Vertical	
2483.50	14.37	27.26	6.83	0.00	48.46	54.00	-5.54	Horizontal	
2500.00	12.74	27.20	6.84	0.00	46.78	54.00	-7.22	Horizontal	

802.11n(H40)					CH03				
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
2310.00	26.79	28.05	6.62	0.00	61.46	74.00	-12.54	Vertical	Peak
2389.99	26.90	27.65	6.75	0.00	61.30	74.00	-12.70	Vertical	
2310.00	25.32	28.05	6.62	0.00	59.99	74.00	-14.01	Horizontal	
2389.99	25.95	27.65	6.75	0.00	60.35	74.00	-13.65	Horizontal	
2310.00	13.04	28.05	6.62	0.00	47.71	54.00	-6.29	Vertical	Average
2389.99	13.35	27.65	6.75	0.00	47.75	54.00	-6.25	Vertical	
2310.00	13.03	28.05	6.62	0.00	47.70	54.00	-6.30	Horizontal	
2389.99	13.36	27.65	6.75	0.00	47.76	54.00	-6.24	Horizontal	

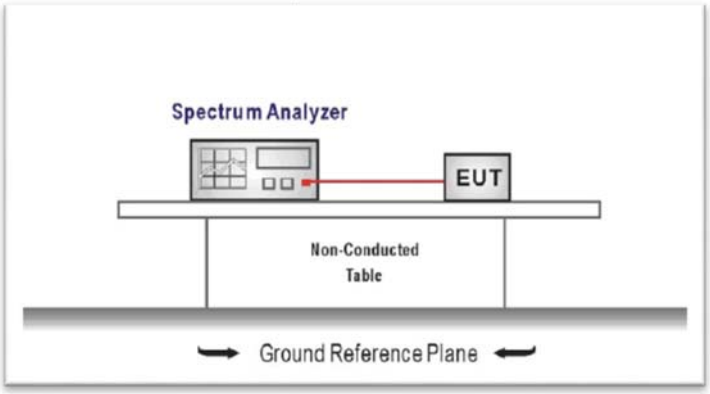
802.11n(H40)					CH09				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	25.29	27.26	6.83	0.00	59.38	74.00	-14.62	Vertical	Peak
2500.00	27.16	27.20	6.84	0.00	61.20	74.00	-12.80	Vertical	
2483.50	26.20	27.26	6.83	0.00	60.29	74.00	-13.71	Horizontal	
2500.00	26.63	27.20	6.84	0.00	60.67	74.00	-13.33	Horizontal	
2483.50	16.52	27.26	6.83	0.00	50.61	54.00	-3.39	Vertical	Average
2500.00	14.00	27.20	6.84	0.00	48.04	54.00	-5.96	Vertical	
2483.50	12.87	27.26	6.83	0.00	46.96	54.00	-7.04	Horizontal	
2500.00	12.81	27.20	6.84	0.00	46.85	54.00	-7.15	Horizontal	

5.7. Band edge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
   Center frequency=DTS channel center frequency
   The span = 1.5 times the DTS bandwidth.
   RBW = 100 kHz, VBW ≥ 3 x RBW
   Detector = peak, Sweep time = auto couple, Trace mode = max hold
   Allow trace to fully stabilize
   Use the peak marker function to determine the maximum PSD level

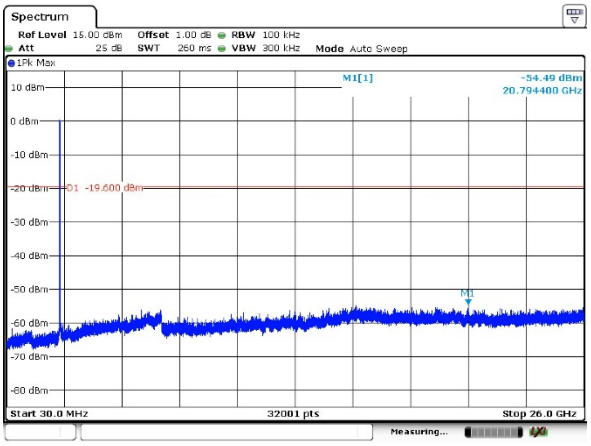
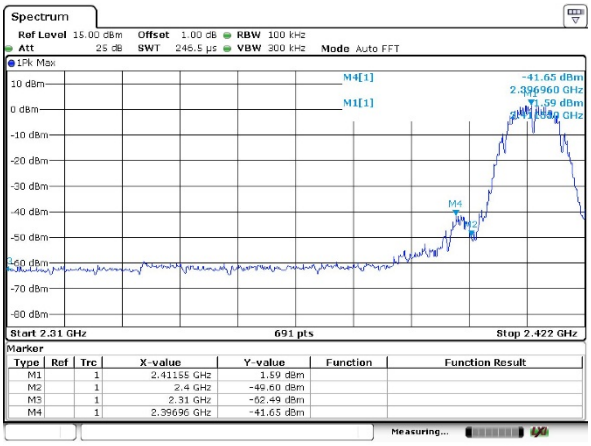
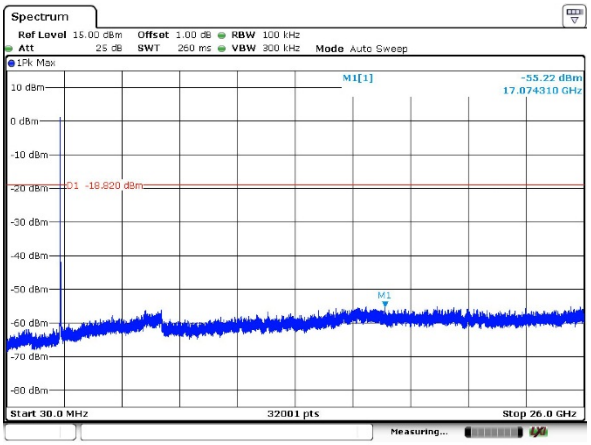
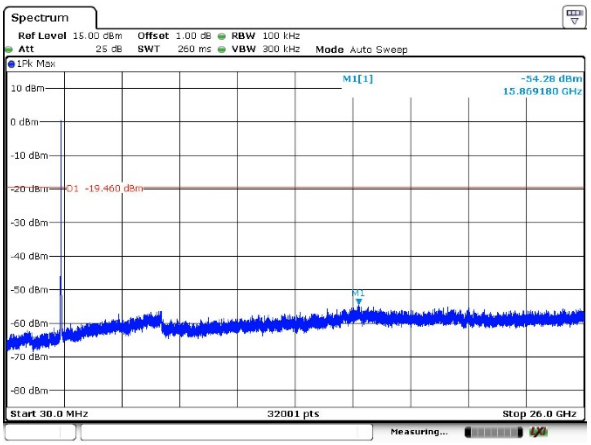
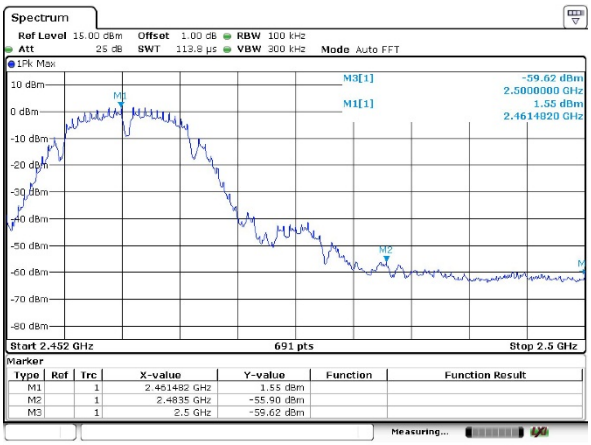
   Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
   Set the center frequency and span to encompass frequency range to be measured
   RBW = 100 kHz, VBW ≥ 3 x RBW
   Detector = peak, Sweep time = auto couple, Trace mode = max hold
   Allow trace to fully stabilize
   Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emissions relative to the limit.

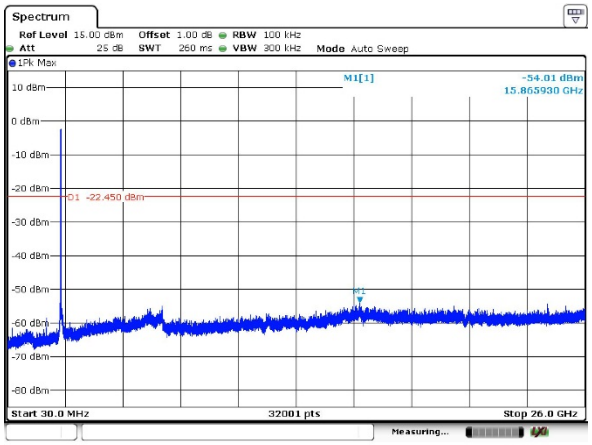
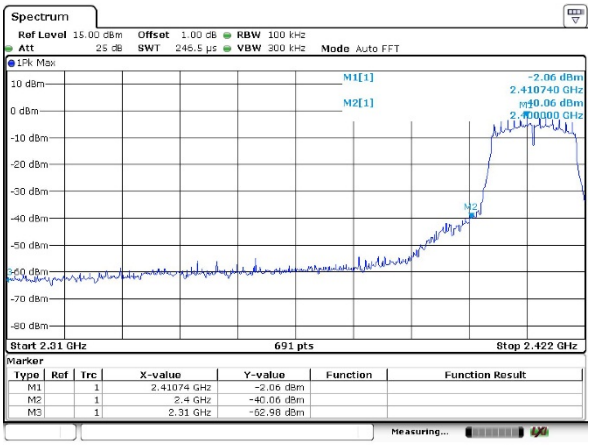
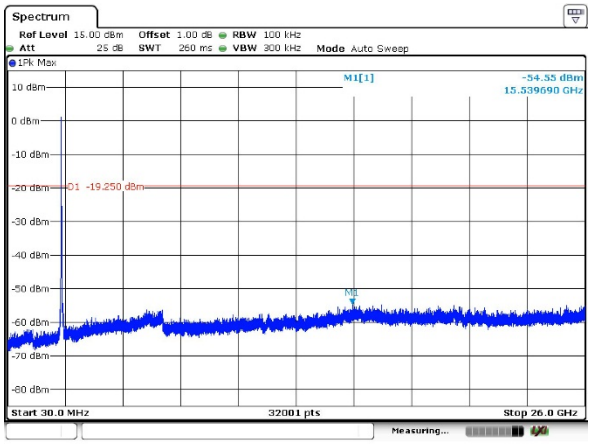
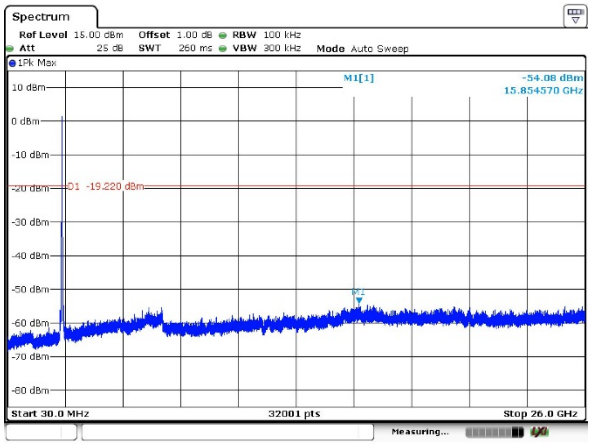
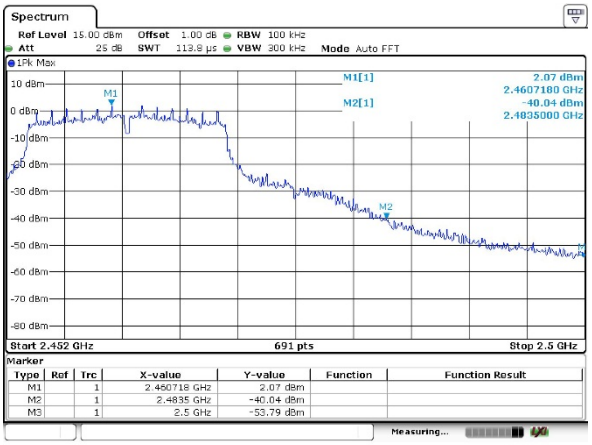
TEST MODE:

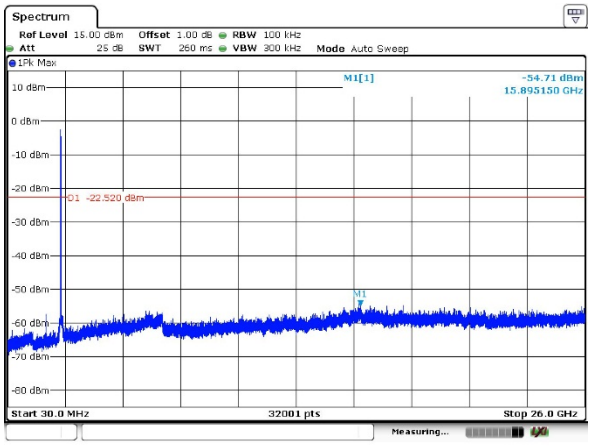
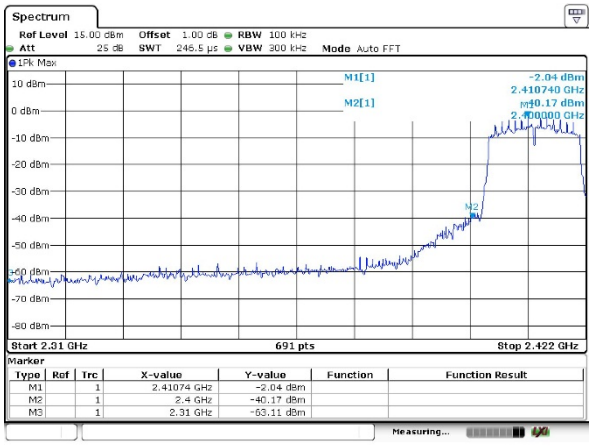
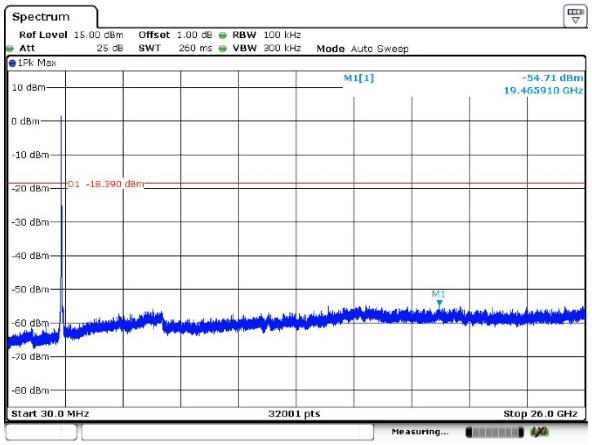
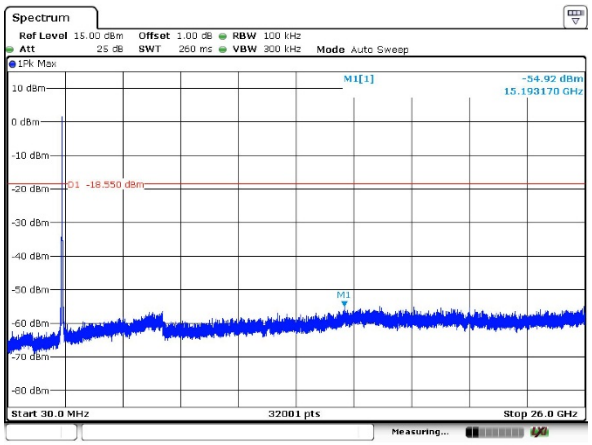
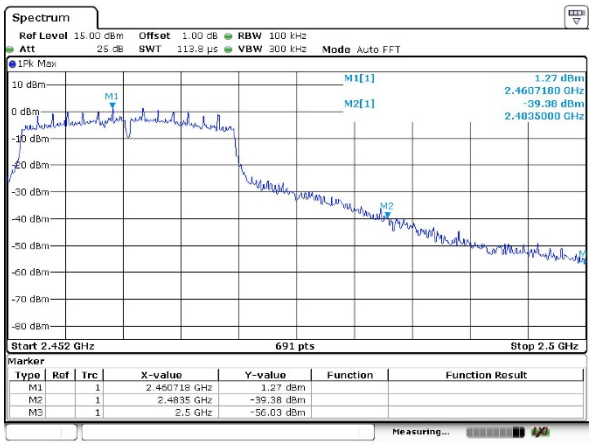
Please refer to the clause 3.3

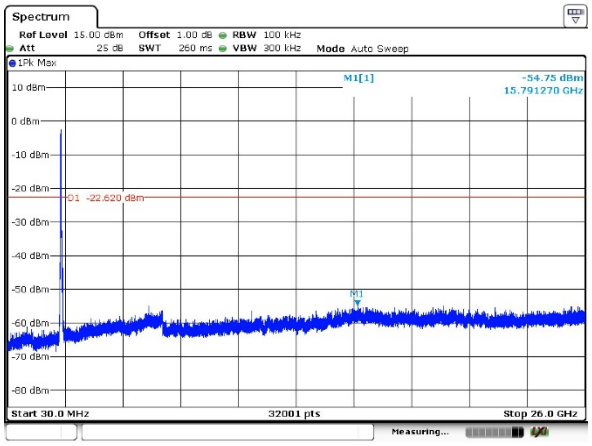
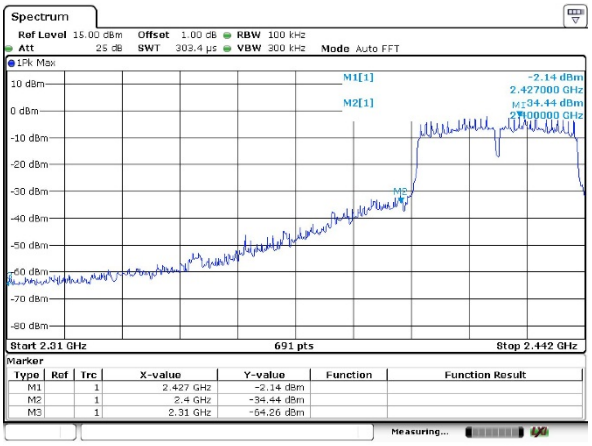
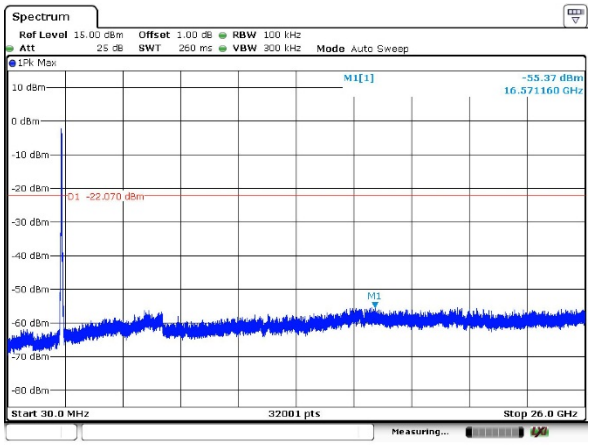
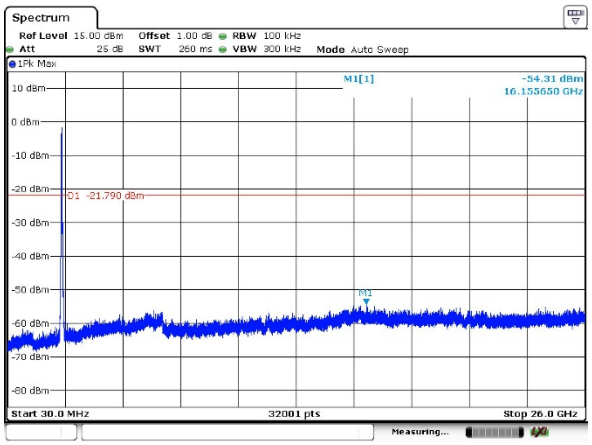
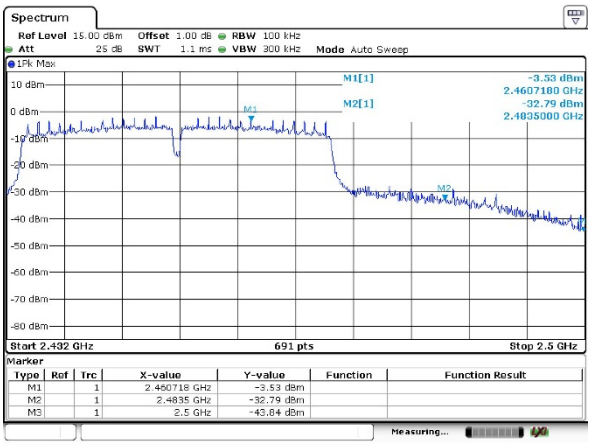
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

802.11b	
	
CH01-SE	*CH01-Bandedge*
	*No Plot*
CH06-SE	-
	
CH11-SE	*CH11-Bandedge*

802.11g	
	
CH01-SE	*CH01-Bandedge*
	*No Plot*
CH06	-
	
CH11-SE	*CH11-Bandedge*

802.11n(H20)	
	
CH01-SE	CH01-Bandedge
	No Plot
CH06	-
	
CH11-SE	CH11-Bandedge

802.11n(H40)	
	
CH03-SE	CH03-Bandedge
	No Plot
CH06	-
	
CH09-SE	CH09-Bandedge

5.8. Spurious Emission (radiated)

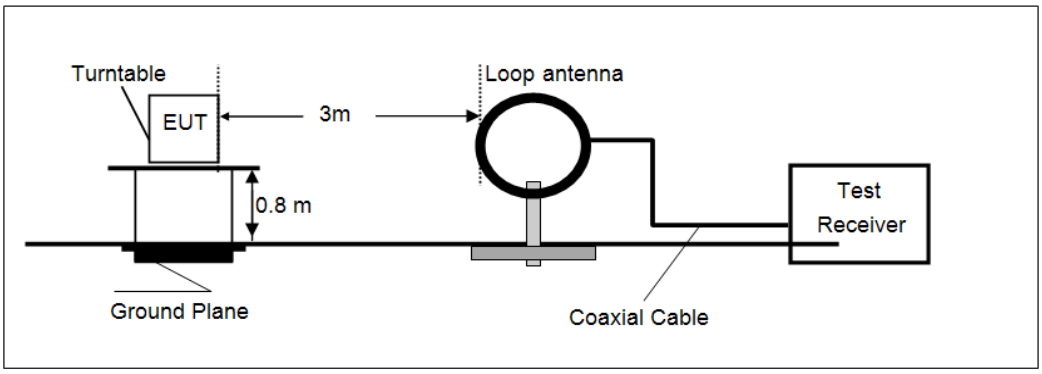
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

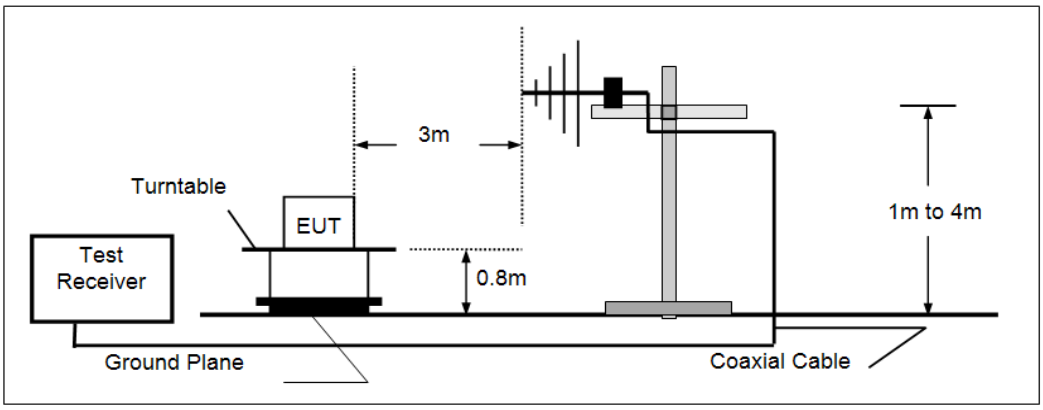
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

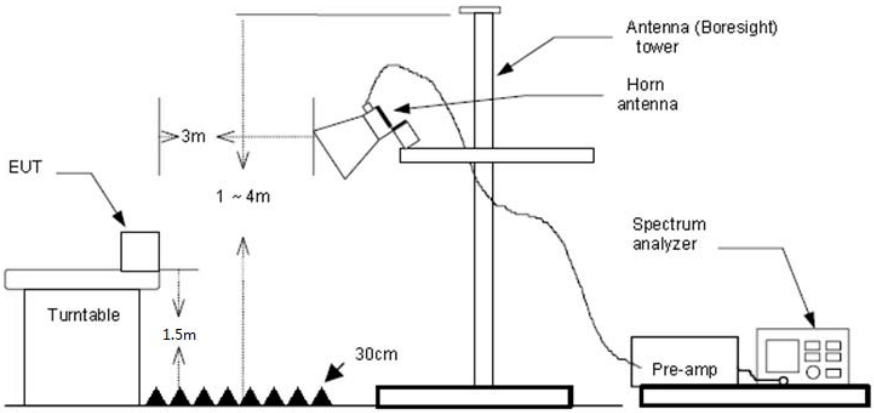
- 9kHz ~30MHz



- 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 meter above ground. The turn table is rotated360 degrees to determine the position of the maximum emission level.
3. The EUT waspositioned 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. Thisis 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 1GHz, RBW=120kHz, VBW=300kHz, Sweep=auto, Detector function=peak, Trace=max hold; *If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.*
   (3) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value
   RBW=1MHz, VBW=3MHz RMS 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

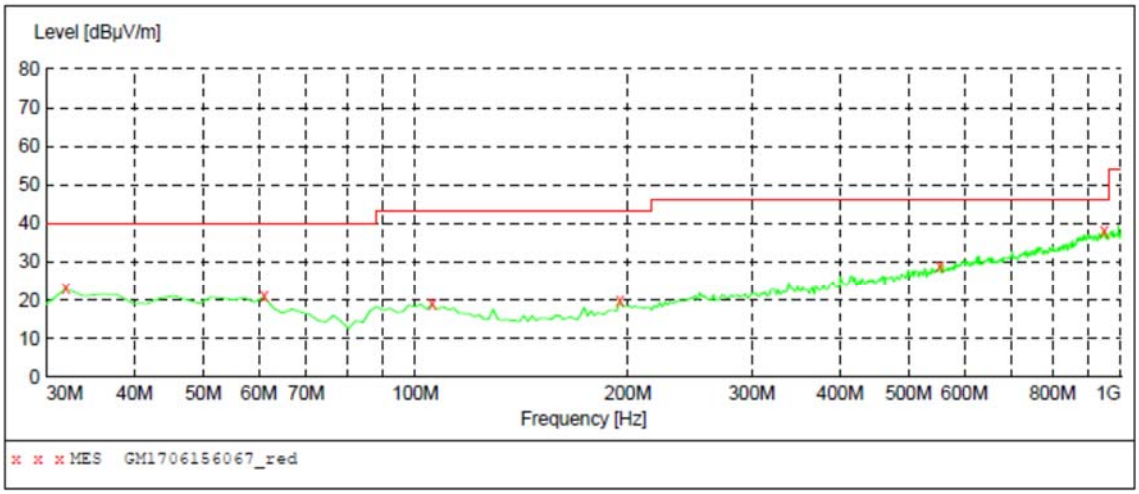
2) The emission levels of other frequencies are very lower than the limit and not show in test report.

- **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 ~1000MHz**
  Have pre-scan all modulation mode, found the 802.11b mode CH01 which it was worst case, so only the worst case's data on the test report.

➢ **30MHz ~ 1GHz**

Polarization:	Vertical

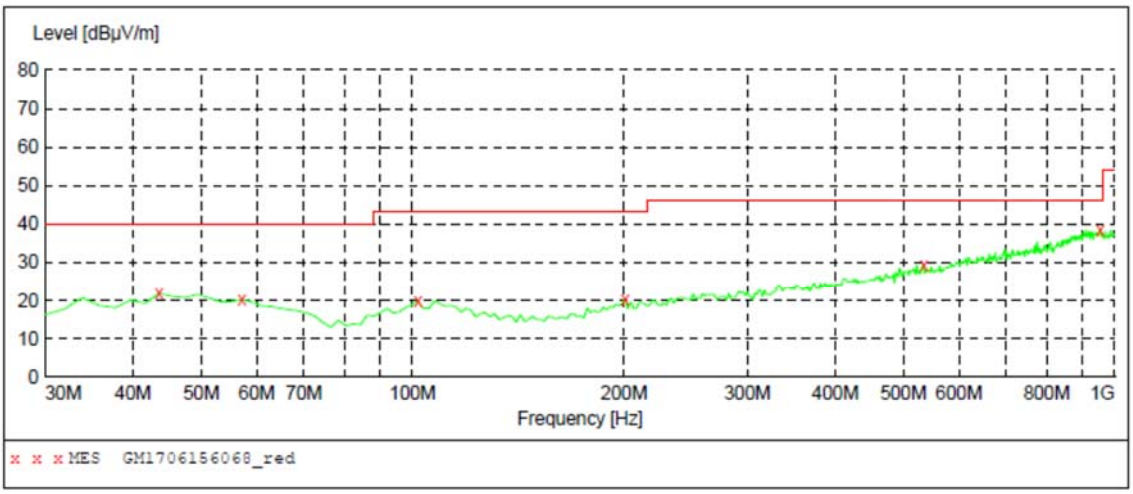


MEASUREMENT RESULT: "GM1706156067_red"

6/15/2017 2:29PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	23.00	-13.2	40.0	17.0	QP	100.0	199.00	VERTICAL
61.040000	20.90	-10.3	40.0	19.1	QP	100.0	117.00	VERTICAL
105.660000	18.90	-10.5	43.5	24.6	QP	100.0	88.00	VERTICAL
194.900000	19.70	-10.1	43.5	23.8	QP	100.0	105.00	VERTICAL
553.800000	28.80	-0.7	46.0	17.2	QP	100.0	35.00	VERTICAL
945.680000	38.00	7.2	46.0	8.0	QP	100.0	76.00	VERTICAL

Polarization:	Horizontal



MEASUREMENT RESULT: "GM1706156068_red"

6/15/2017 2:33PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
43.580000	21.90	-9.1	40.0	18.1	QP	100.0	33.00	HORIZONTAL
57.160000	20.20	-9.4	40.0	19.8	QP	300.0	272.00	HORIZONTAL
101.780000	19.90	-10.5	43.5	23.6	QP	300.0	110.00	HORIZONTAL
200.720000	20.20	-9.9	43.5	23.3	QP	100.0	351.00	HORIZONTAL
534.400000	29.50	-1.1	46.0	16.5	QP	100.0	251.00	HORIZONTAL
953.440000	38.70	7.3	46.0	7.3	QP	300.0	215.00	HORIZONTAL

➢ **Above 1 GHz**

802.11b					CH01				
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
2483.50	50.02	27.26	6.83	37.87	46.24	74.00	-27.76	Vertical	Peak
2500.00	33.77	27.20	6.84	37.87	29.94	74.00	-44.06	Vertical	
1553.29	35.26	25.31	5.44	36.66	29.35	74.00	-44.65	Horizontal	
3489.84	36.52	28.92	8.10	38.42	35.12	74.00	-38.88	Horizontal	
4821.76	36.84	31.56	9.55	36.90	41.05	74.00	-32.95	Horizontal	
7282.79	32.90	36.28	11.95	34.97	46.16	74.00	-27.84	Horizontal	

802.11b					CH06				
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
1364.18	35.15	26.00	4.94	36.48	29.61	74.00	-44.39	Vertical	Peak
3893.52	34.75	29.69	8.63	38.17	34.90	74.00	-39.10	Vertical	
5588.88	32.08	31.81	10.26	35.92	38.23	74.00	-35.77	Vertical	
7604.87	31.60	36.20	12.73	34.98	45.55	74.00	-28.45	Vertical	
1782.18	36.35	25.37	5.93	37.10	30.55	74.00	-43.45	Horizontal	
3516.59	35.84	29.05	8.14	38.39	34.64	74.00	-39.36	Horizontal	
4871.10	38.10	31.46	9.59	36.76	42.39	74.00	-31.61	Horizontal	
7245.81	32.14	36.25	11.91	35.02	45.28	74.00	-28.72	Horizontal	

802.11b					CH11				
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
1225.86	37.15	26.27	4.70	36.56	31.56	74.00	-42.44	Vertical	Peak
3026.20	35.97	28.65	7.51	38.23	33.90	74.00	-40.10	Vertical	
4920.96	39.07	31.42	9.62	36.62	43.49	74.00	-30.51	Vertical	
6974.36	31.11	35.15	11.82	34.82	43.26	74.00	-30.74	Vertical	
1185.96	35.61	26.19	4.63	36.58	29.85	74.00	-44.15	Horizontal	
3653.46	34.62	29.30	8.33	38.26	33.99	74.00	-40.01	Horizontal	
4920.96	36.39	31.42	9.62	36.62	40.81	74.00	-33.19	Horizontal	
8042.90	32.57	37.06	12.40	34.53	47.50	74.00	-26.50	Horizontal	

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.*

802.11g					CH01				
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
1276.82	36.09	26.22	4.79	36.53	30.57	74.00	-43.43	Vertical	Peak
3993.90	35.19	29.70	8.77	38.11	35.55	74.00	-38.45	Vertical	
4354.97	34.60	30.37	9.09	37.58	36.48	74.00	-37.52	Vertical	
5940.97	33.05	32.38	10.65	35.41	40.67	74.00	-33.33	Vertical	
1706.70	35.53	25.21	5.78	36.94	29.58	74.00	-44.42	Horizontal	
3160.03	36.40	28.80	7.67	38.21	34.66	74.00	-39.34	Horizontal	
4128.28	34.99	29.93	8.88	37.81	35.99	74.00	-38.01	Horizontal	
6833.77	32.58	34.24	11.64	34.96	43.50	74.00	-30.50	Horizontal	

802.11g					CH06				
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
1179.94	36.65	26.14	4.61	36.58	30.82	74.00	-43.18	Vertical	Peak
3883.62	34.39	29.68	8.62	38.18	34.51	74.00	-39.49	Vertical	
5732.97	32.54	31.77	10.48	35.50	39.29	74.00	-34.71	Vertical	
8042.90	31.95	37.06	12.40	34.53	46.88	74.00	-27.12	Vertical	
1316.42	35.40	26.15	4.86	36.51	29.90	74.00	-44.10	Horizontal	
4086.46	34.75	29.87	8.85	37.91	35.56	74.00	-38.44	Horizontal	
4883.52	33.71	31.43	9.59	36.73	38.00	74.00	-36.00	Horizontal	
7413.73	32.13	36.27	12.11	34.83	45.68	74.00	-28.32	Horizontal	

802.11g					CH11				
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
1406.50	35.66	25.89	5.02	36.47	30.10	74.00	-43.90	Vertical	Peak
3579.82	35.62	29.24	8.24	38.30	34.80	74.00	-39.20	Vertical	
5718.40	32.58	31.69	10.46	35.54	39.19	74.00	-34.81	Vertical	
8166.69	33.17	36.80	12.69	34.55	48.11	74.00	-25.89	Vertical	
1385.18	36.11	25.94	4.97	36.47	30.55	74.00	-43.45	Horizontal	
4332.85	35.12	30.30	9.07	37.59	36.90	74.00	-37.10	Horizontal	
6267.19	32.93	33.03	11.00	35.30	41.66	74.00	-32.34	Horizontal	
8022.46	33.32	37.08	12.35	34.53	48.22	74.00	-25.78	Horizontal	

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.*

802.11n(H20)					CH01				
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
1385.18	34.84	25.94	4.97	36.47	29.28	74.00	-44.72	Vertical	Peak
3176.16	36.43	28.80	7.69	38.20	34.72	74.00	-39.28	Vertical	
4512.97	34.59	30.73	9.32	37.37	37.27	74.00	-36.73	Vertical	
6713.08	32.70	34.17	11.50	35.15	43.22	74.00	-30.78	Vertical	
1593.34	35.72	24.96	5.55	36.71	29.52	74.00	-44.48	Horizontal	
3738.13	35.35	29.42	8.43	38.24	34.96	74.00	-39.04	Horizontal	
6047.78	31.98	32.50	10.75	35.41	39.82	74.00	-34.18	Horizontal	
8063.40	32.94	37.04	12.45	34.54	47.89	74.00	-26.11	Horizontal	

802.11n(H20)					CH06				
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
1276.82	35.87	26.22	4.79	36.53	30.35	74.00	-43.65	Vertical	Peak
3561.64	35.45	29.19	8.21	38.32	34.53	74.00	-39.47	Vertical	
4594.10	33.73	30.89	9.45	37.24	36.83	74.00	-37.17	Vertical	
5836.04	31.87	32.17	10.60	35.34	39.30	74.00	-34.70	Vertical	
1235.26	36.70	26.26	4.72	36.55	31.13	74.00	-42.87	Horizontal	
3135.99	35.90	28.80	7.64	38.21	34.13	74.00	-39.87	Horizontal	
4065.71	35.15	29.83	8.83	37.96	35.85	74.00	-38.15	Horizontal	
7190.69	32.73	36.14	11.86	35.07	45.66	74.00	-28.34	Horizontal	

802.11n(H20)					CH11				
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
1293.17	36.17	26.21	4.82	36.52	30.68	74.00	-43.32	Vertical	Peak
3192.37	35.69	28.80	7.71	38.20	34.00	74.00	-40.00	Vertical	
4559.15	34.29	30.82	9.39	37.30	37.20	74.00	-36.80	Vertical	
5588.88	33.84	31.81	10.26	35.92	39.99	74.00	-34.01	Vertical	
1364.18	35.11	26.00	4.94	36.48	29.57	74.00	-44.43	Horizontal	
1764.12	35.17	25.33	5.89	37.06	29.33	74.00	-44.67	Horizontal	
3598.09	35.27	29.29	8.27	38.27	34.56	74.00	-39.44	Horizontal	
6219.51	32.14	32.94	11.01	35.29	40.80	74.00	-33.20	Horizontal	

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.*

802.11n(H40)					CH03				
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
1329.89	36.85	26.11	4.88	36.50	31.34	74.00	-42.66	Vertical	Peak
1702.36	36.22	25.20	5.77	36.93	30.26	74.00	-43.74	Vertical	
3963.52	35.85	29.70	8.73	38.13	36.15	74.00	-37.85	Vertical	
6445.16	32.36	33.62	11.07	35.32	41.73	74.00	-32.27	Vertical	
1364.18	35.11	26.00	4.94	36.48	29.57	74.00	-44.43	Horizontal	
1764.12	35.17	25.33	5.89	37.06	29.33	74.00	-44.67	Horizontal	
3598.09	35.27	29.29	8.27	38.27	34.56	74.00	-39.44	Horizontal	
6219.51	32.14	32.94	11.01	35.29	40.80	74.00	-33.20	Horizontal	

802.11n(H40)					CH06				
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
1689.41	35.89	25.17	5.74	36.91	29.89	74.00	-44.11	Vertical	Peak
5022.19	34.40	31.59	9.69	36.38	39.30	74.00	-34.70	Vertical	
5776.92	33.37	31.99	10.55	35.38	40.53	74.00	-33.47	Vertical	
7860.74	32.36	36.47	12.97	34.91	46.89	74.00	-27.11	Vertical	
2146.12	33.95	27.07	6.39	37.33	30.08	74.00	-43.92	Horizontal	
3766.79	34.88	29.50	8.46	38.24	34.60	74.00	-39.40	Horizontal	
6527.71	32.01	34.06	11.23	35.34	41.96	74.00	-32.04	Horizontal	
8571.38	33.31	37.19	12.88	34.48	48.90	74.00	-25.10	Horizontal	

802.11n(H40)					CH09				
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
1276.82	35.98	26.22	4.79	36.53	30.46	74.00	-43.54	Vertical	Peak
3168.08	35.90	28.80	7.68	38.20	34.18	74.00	-39.82	Vertical	
4501.49	33.86	30.70	9.30	37.39	36.47	74.00	-37.53	Vertical	
7027.82	31.54	35.38	11.85	34.83	43.94	74.00	-30.06	Vertical	
1413.67	35.32	25.89	5.04	36.48	29.77	74.00	-44.23	Horizontal	
4641.12	34.44	31.02	9.48	37.17	37.77	74.00	-36.23	Horizontal	
6219.51	32.53	32.94	11.01	35.29	41.19	74.00	-32.81	Horizontal	
8571.38	33.31	37.19	12.88	34.48	48.90	74.00	-25.10	Horizontal	

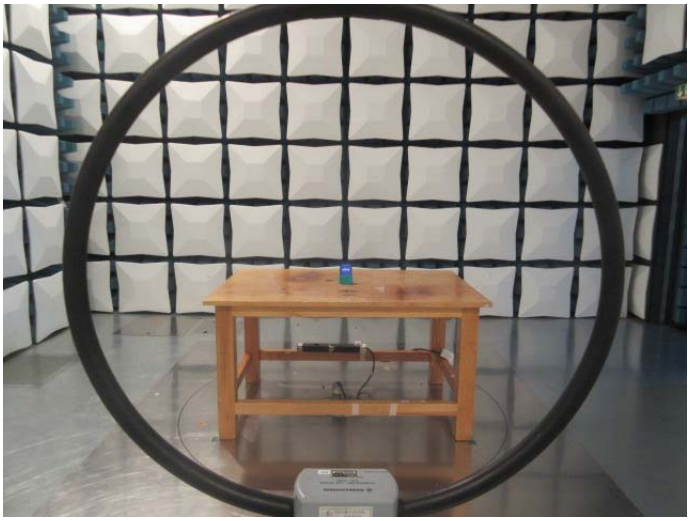
Remark:

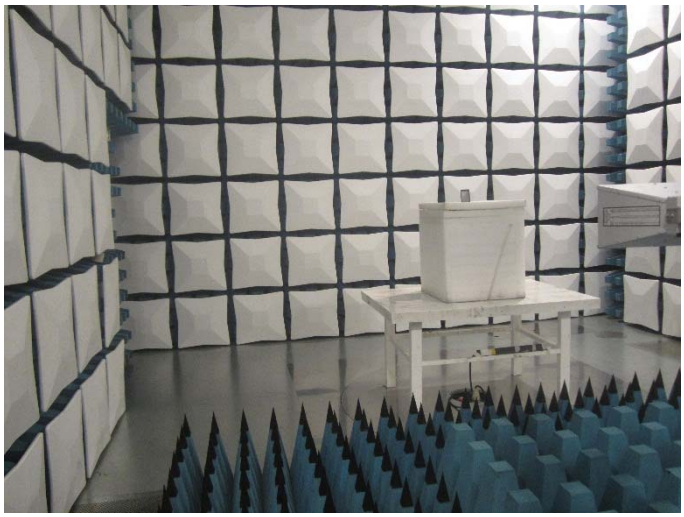
1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show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

6. Test Setup Photos of the EUT

Conducted Emission

Radiated Emission





7. External and Internal Photos of the EUT

Reference to Test Report No.: TRE1706008801.

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