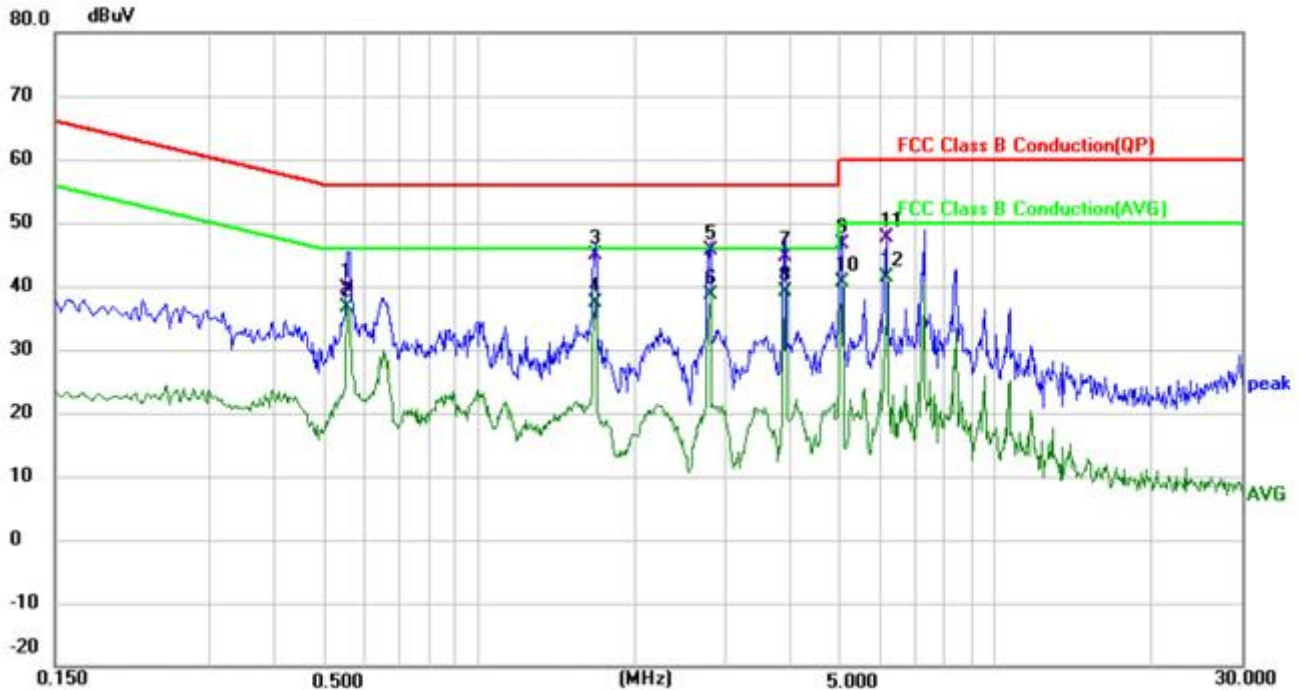


[Test Mode: TX]; [Line: Neutral] ;[Voltage:120V/60Hz]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.5540	29.90	9.74	39.64	56.00	-16.36	QP
2		0.5540	26.84	9.74	36.58	46.00	-9.42	AVG
3		1.6780	34.97	9.79	44.76	56.00	-11.24	QP
4		1.6780	27.69	9.79	37.48	46.00	-8.52	AVG
5		2.7980	35.64	9.91	45.55	56.00	-10.45	QP
6		2.7980	28.77	9.91	38.68	46.00	-7.32	AVG
7		3.9140	34.54	10.03	44.57	56.00	-11.43	QP
8	*	3.9140	29.10	10.03	39.13	46.00	-6.87	AVG
9		5.0340	36.46	10.12	46.58	60.00	-13.42	QP
10		5.0340	30.55	10.12	40.67	50.00	-9.33	AVG
11		6.1540	37.35	10.21	47.56	60.00	-12.44	QP
12		6.1540	31.11	10.21	41.32	50.00	-8.68	AVG

Test Result: Pass

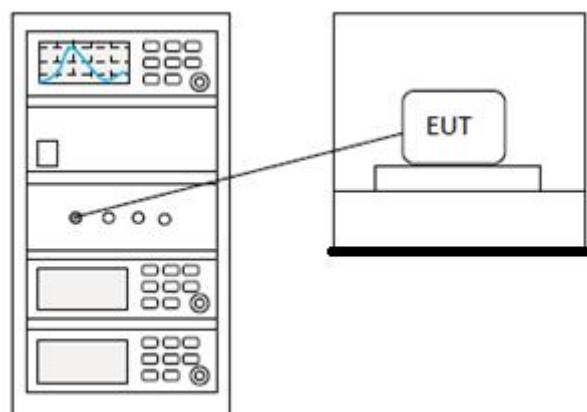
6.3 Conducted peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq \text{hopping channels} < 50$
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



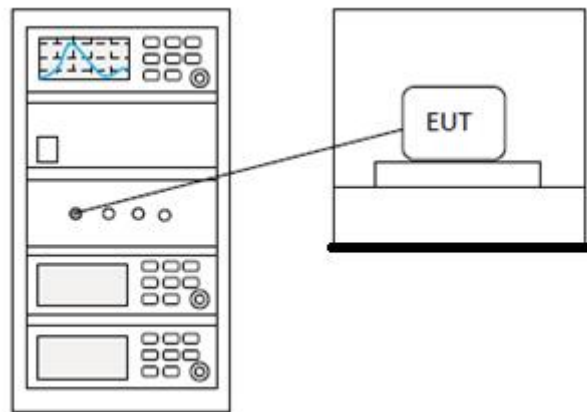
6.3.3 Test data

Pass: Please refer to appendix A for details

6.4 20dB Bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Test setup



6.4.2 Test data

Pass: Please refer to appendix A for details

6.5 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

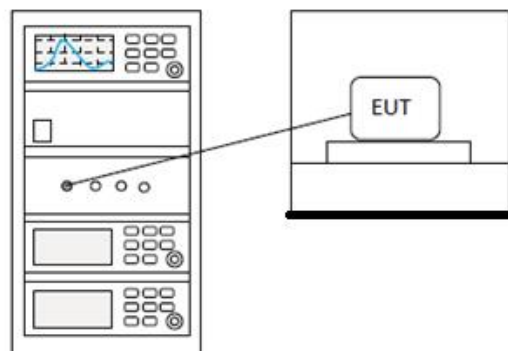
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, 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)).

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

6.6 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

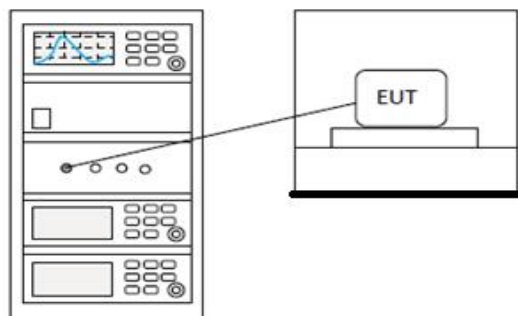
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, 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)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

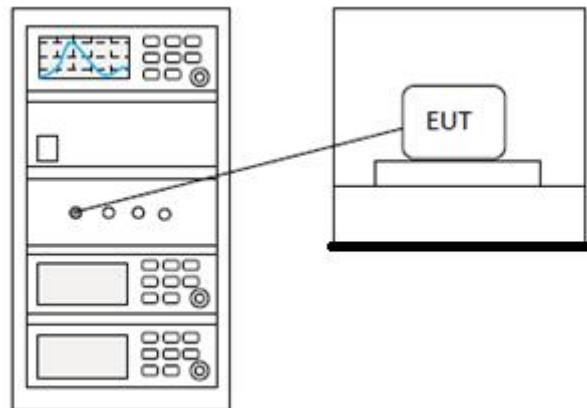
6.7 Carrier Frequencies Separation

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

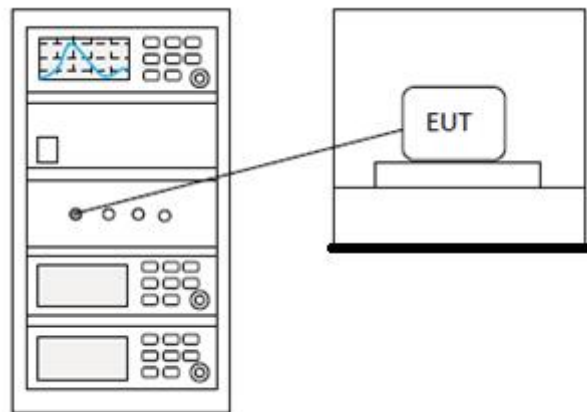
6.8 Hopping Channel Number

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

6.8.2 Test setup



6.8.3 Test data

Pass: Please refer to appendix A for details

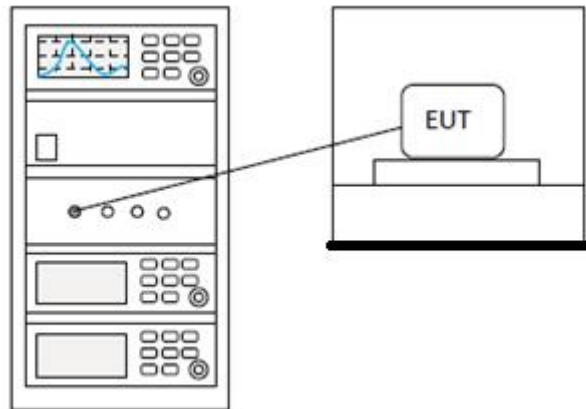
6.9 Dwell Time

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Limit

Frequency(MHz)	Limit
902-928	0.4s within a 20s period(20dB bandwidth<250kHz)
	0.4s within a 10s period(20dB bandwidth≥250kHz)
2400-2483.5	0.4s within a period of 0.4s multiplied by the number of hopping channels
5725-5850	0.4s within a 30s period

6.9.2 Test setup



6.9.3 Test data

Pass: Please refer to appendix A for details

6.10 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

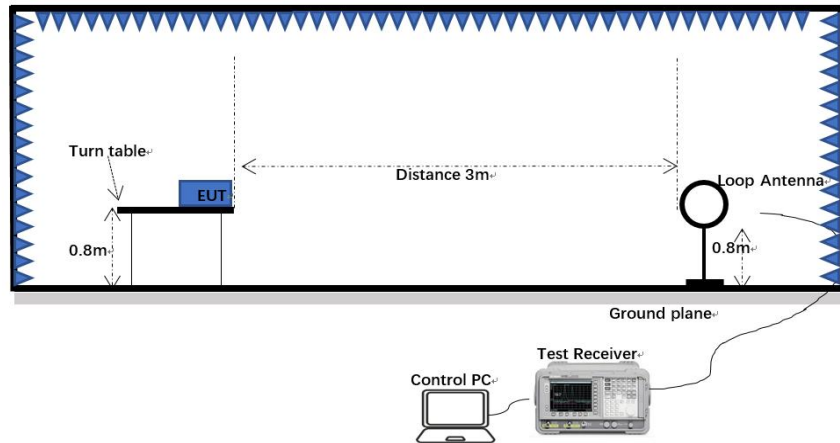
6.10.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

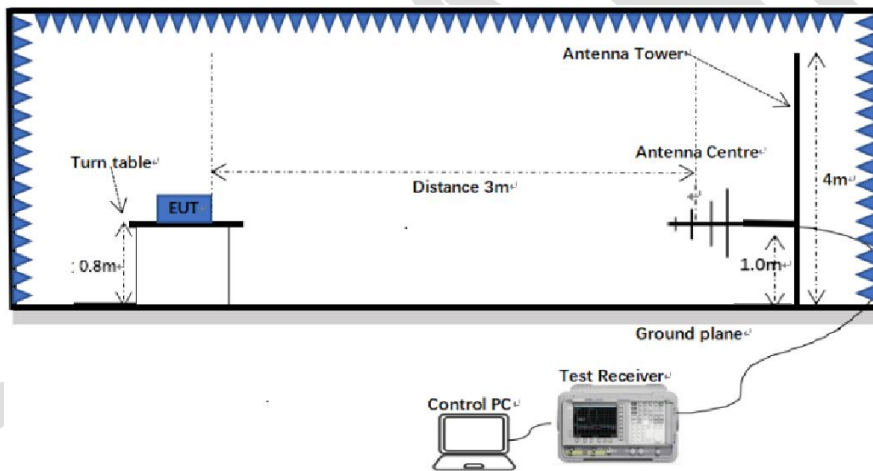
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.10.2 Test setup

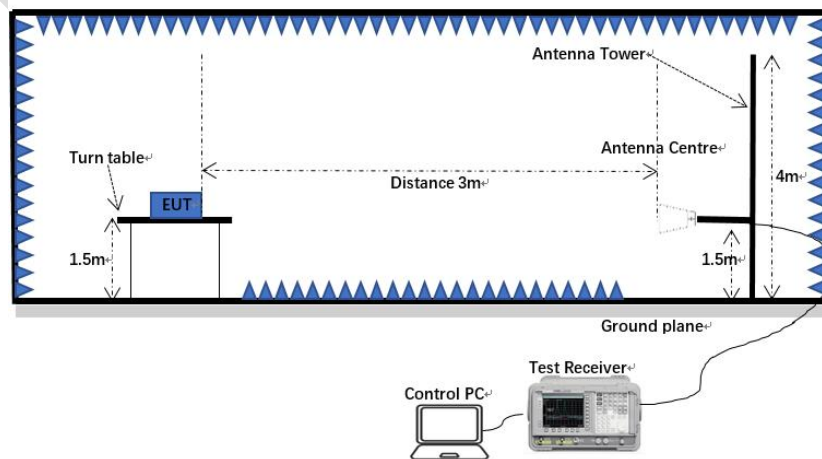
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.10.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.10.4 Test data

Below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for DH5 was recorded in the report.

[Test mode: TX]; [Polarity: Horizontal]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.5095	31.40	-12.97	18.43	40.00	-21.57	QP
2	75.9773	4.32	15.70	20.02	40.00	-19.98	QP
3	149.4857	-1.33	20.66	19.33	43.50	-24.17	QP
4	277.0935	6.11	19.12	25.23	46.00	-20.77	QP
5	622.8900	-0.36	27.52	27.16	46.00	-18.84	QP
6 *	942.1305	0.52	31.18	31.70	46.00	-14.30	QP

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



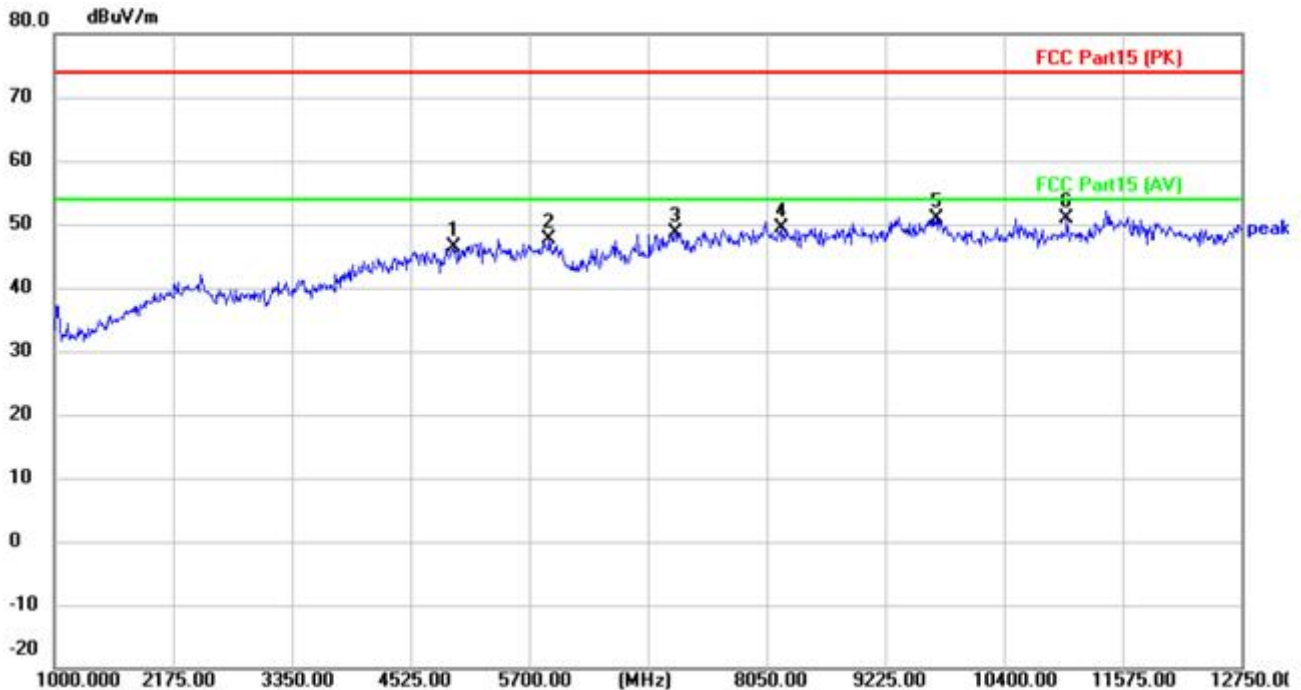
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	46.3402	7.78	19.52	27.30	40.00	-12.70	QP
2	59.8588	8.69	18.58	27.27	40.00	-12.73	QP
3	85.8984	11.66	15.59	27.25	40.00	-12.75	QP
4	149.4857	-0.13	20.66	20.53	43.50	-22.97	QP
5	287.9904	3.25	19.58	22.83	46.00	-23.17	QP
6	675.2080	1.14	27.73	28.87	46.00	-17.13	QP

Test Result: Pass

Above 1GHz:

Remark: During the test, the Radiates Emission from above 1GHz was performed in all modes, only the worst case for DH5 was recorded in the report.

[Test mode: TX low channel]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4959.750	38.98	7.41	46.39	74.00	-27.61	peak
2		5899.750	38.46	9.10	47.56	74.00	-26.44	peak
3		7145.250	38.06	10.64	48.70	74.00	-25.30	peak
4		8191.000	37.88	11.50	49.38	74.00	-24.62	peak
5		9730.250	37.18	13.70	50.88	74.00	-23.12	peak
6	*	11022.75	37.85	13.04	50.89	74.00	-23.11	peak

Test Result: Pass

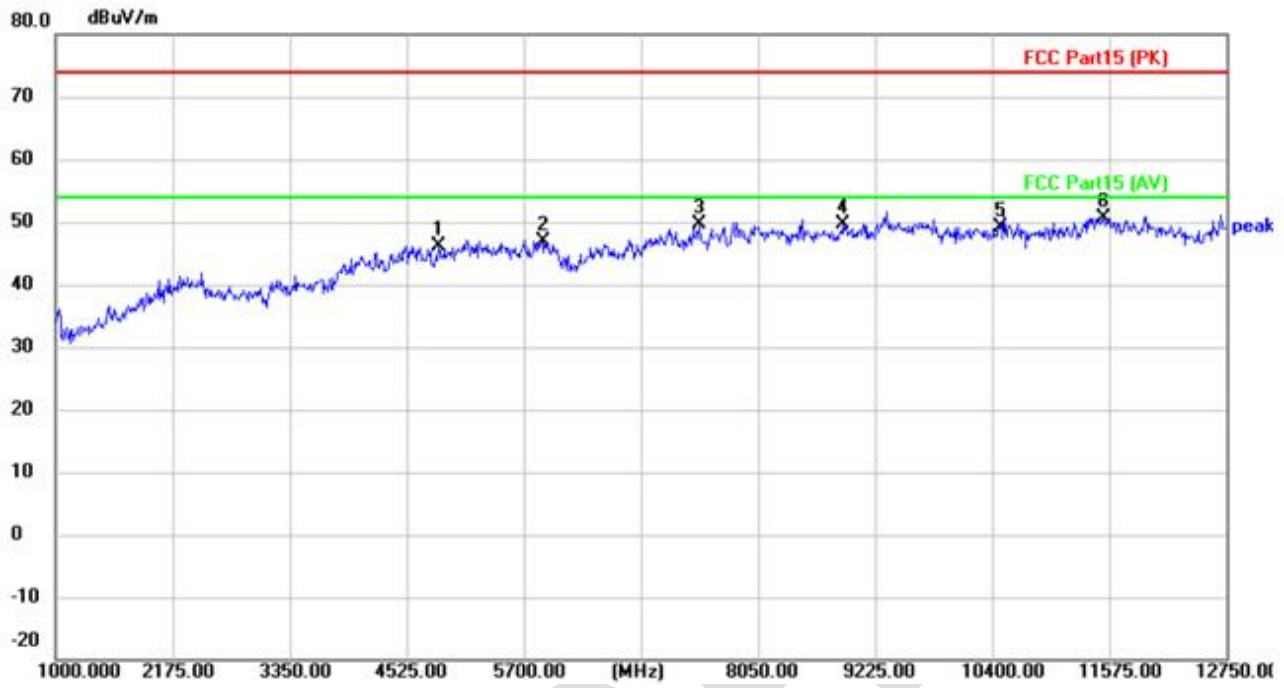
[Test mode: TX low channel]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5042.000	38.70	8.35	47.05	74.00	-26.95	peak
2		6522.500	38.00	8.45	46.45	74.00	-27.55	peak
3		7803.250	38.99	10.76	49.75	74.00	-24.25	peak
4		9413.000	37.67	12.80	50.47	74.00	-23.53	peak
5		10482.25	36.25	13.71	49.96	74.00	-24.04	peak
6	*	11516.25	36.05	14.86	50.91	74.00	-23.09	peak

Test Result: Pass

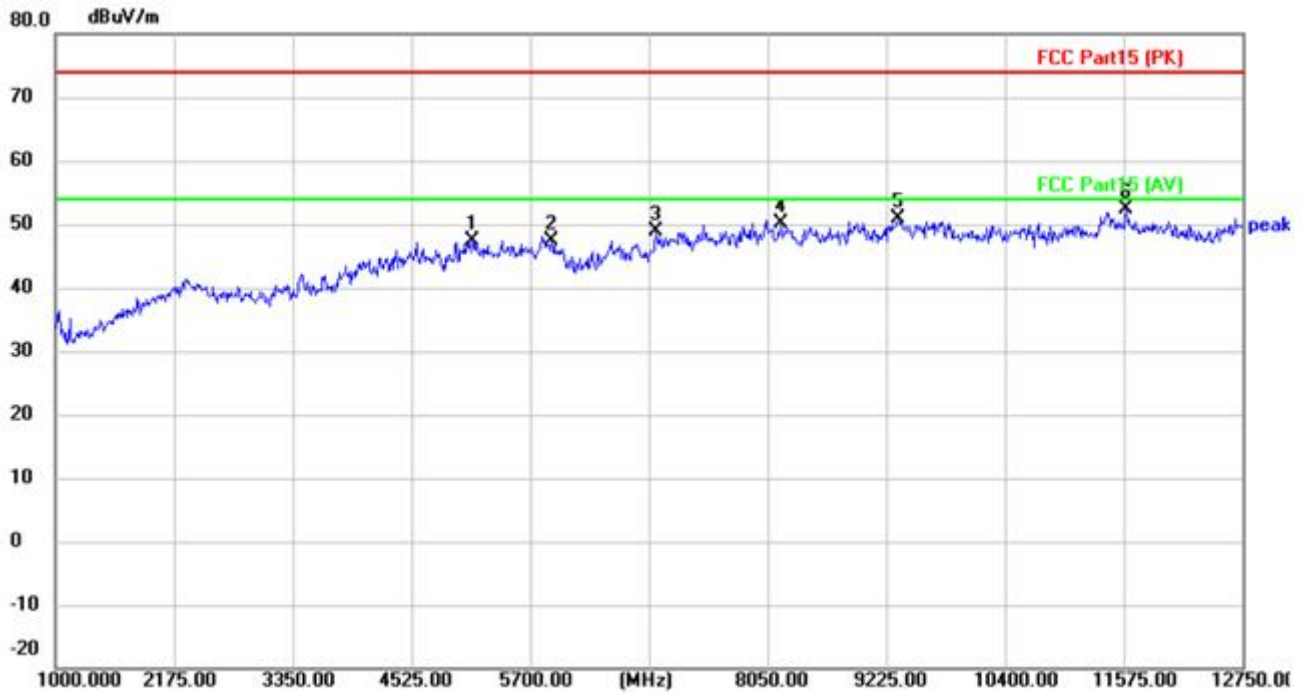
[Test mode: TX middle channel]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4842.250	39.81	6.28	46.09	74.00	-27.91	peak
2		5888.000	37.81	9.05	46.86	74.00	-27.14	peak
3		7462.500	38.60	11.07	49.67	74.00	-24.33	peak
4		8907.750	37.15	12.57	49.72	74.00	-24.28	peak
5		10482.25	35.50	13.71	49.21	74.00	-24.79	peak
6	*	11516.25	35.87	14.86	50.73	74.00	-23.27	peak

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5124.250	39.21	8.20	47.41	74.00	-26.59	peak
2		5911.500	38.38	9.08	47.46	74.00	-26.54	peak
3		6945.500	39.13	9.74	48.87	74.00	-25.13	peak
4		8179.250	38.55	11.50	50.05	74.00	-23.95	peak
5		9342.500	37.41	13.35	50.76	74.00	-23.24	peak
6	*	11598.50	37.58	14.77	52.35	74.00	-21.65	peak

Test Result: Pass