



RF Conducted Spurious Emissions

Antenna 1

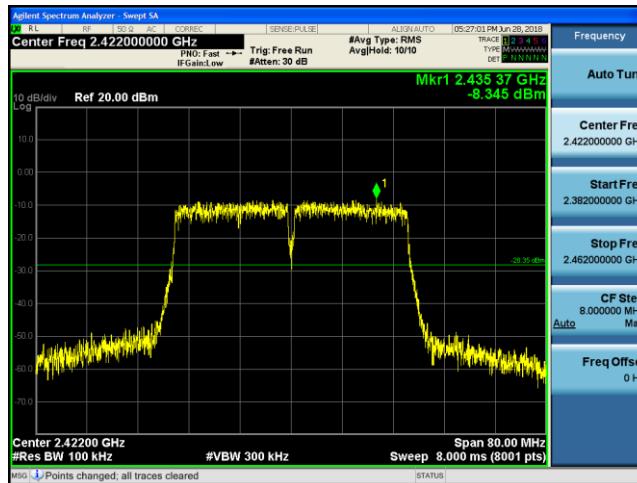
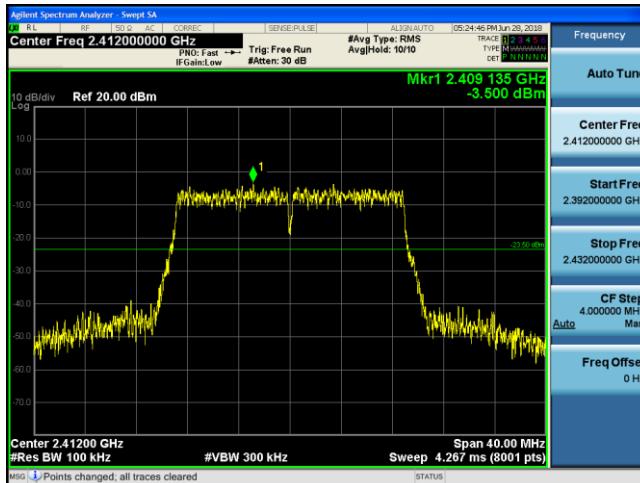
Antenna 1

IEEE 802.11n HT20

IEEE 802.11n HT40

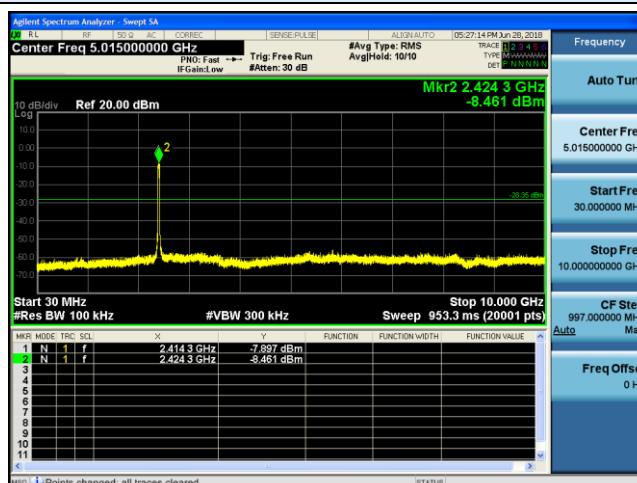
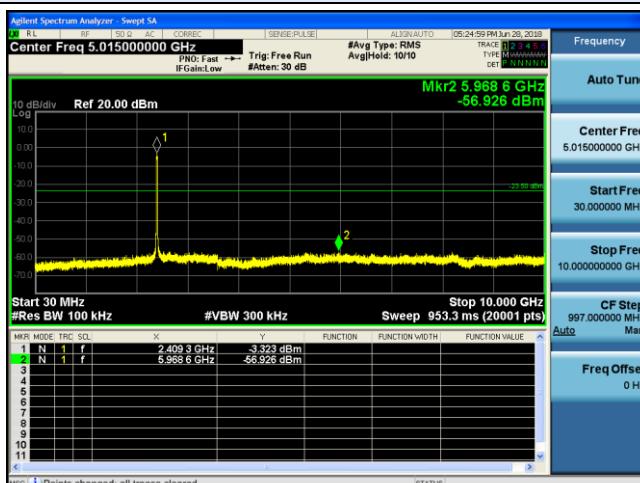
Channel 1 / 2412 MHz

Channel 3 / 2422 MHz



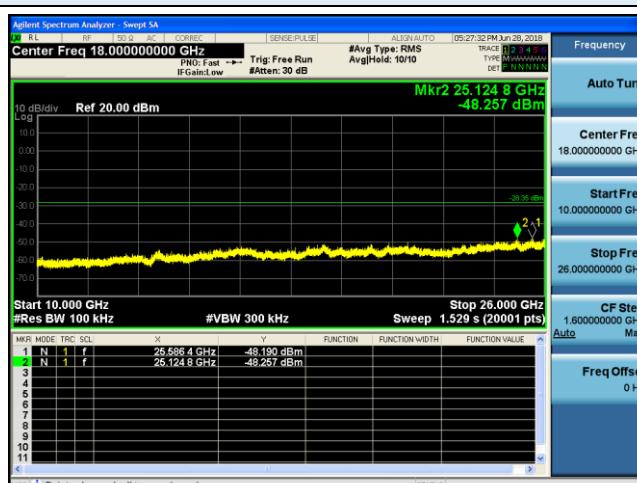
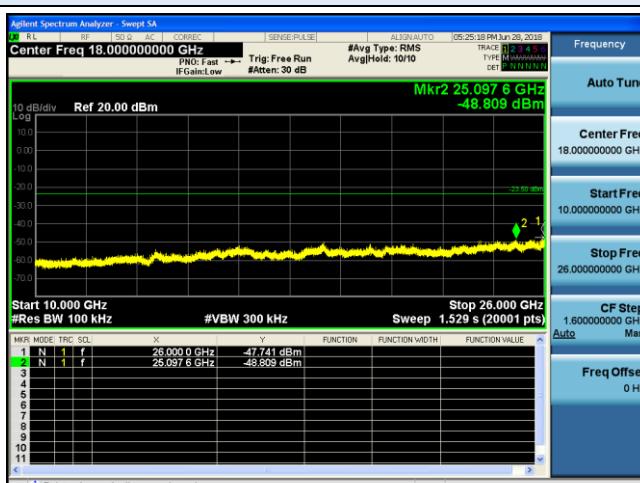
2392 MHz – 2432 MHz

2382 MHz – 2462 MHz



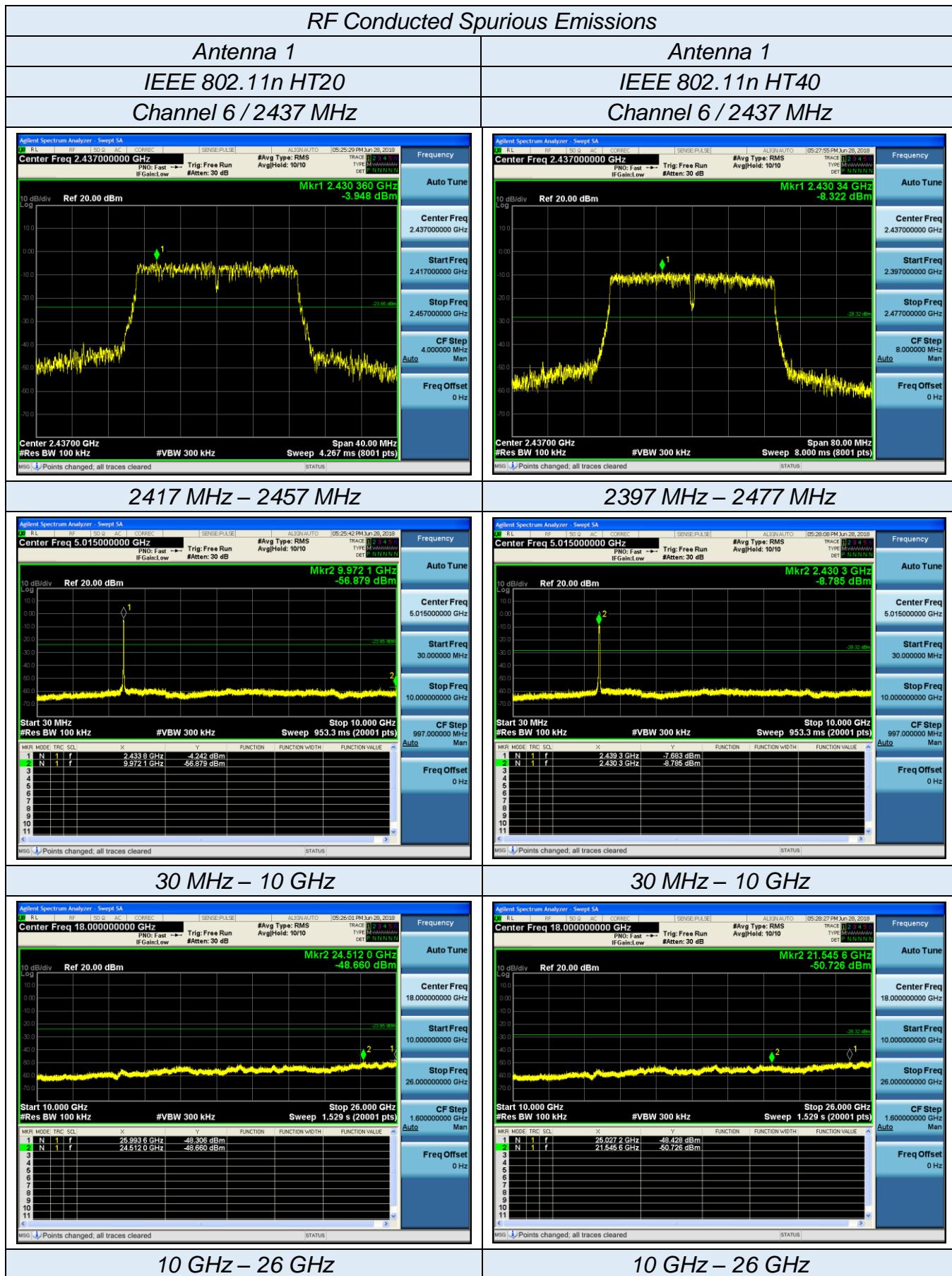
30 MHz – 10 GHz

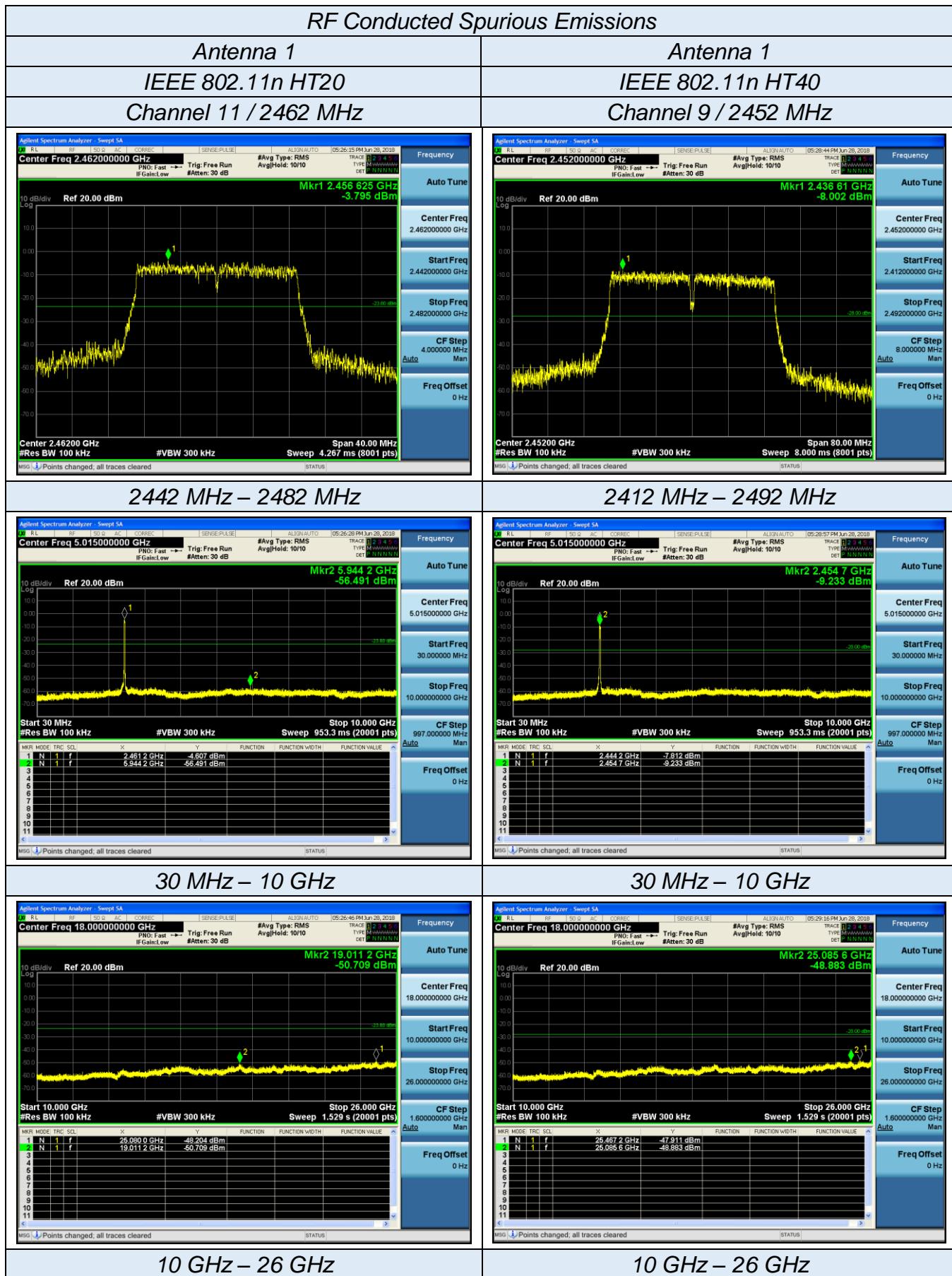
30 MHz – 10 GHz

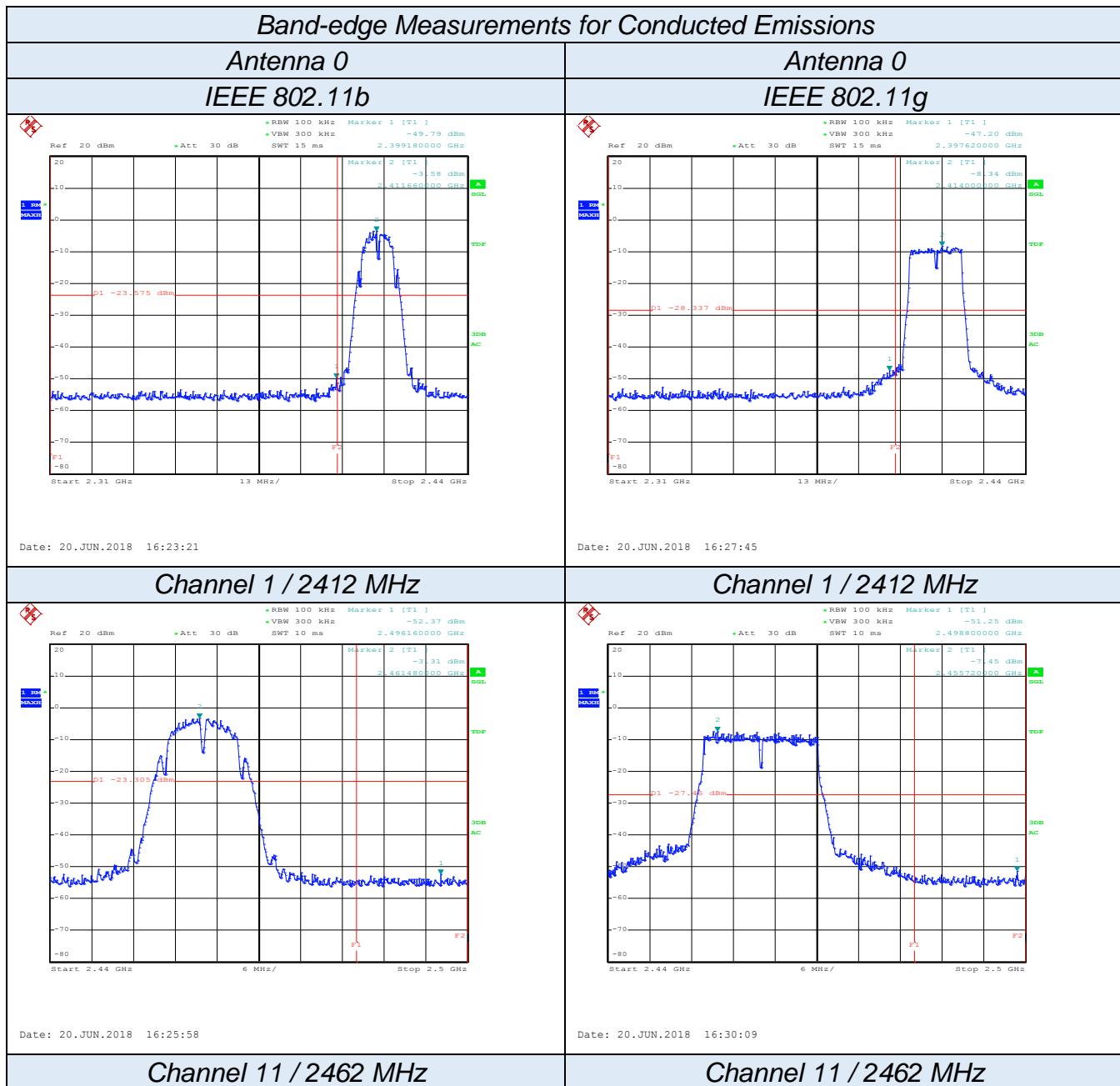


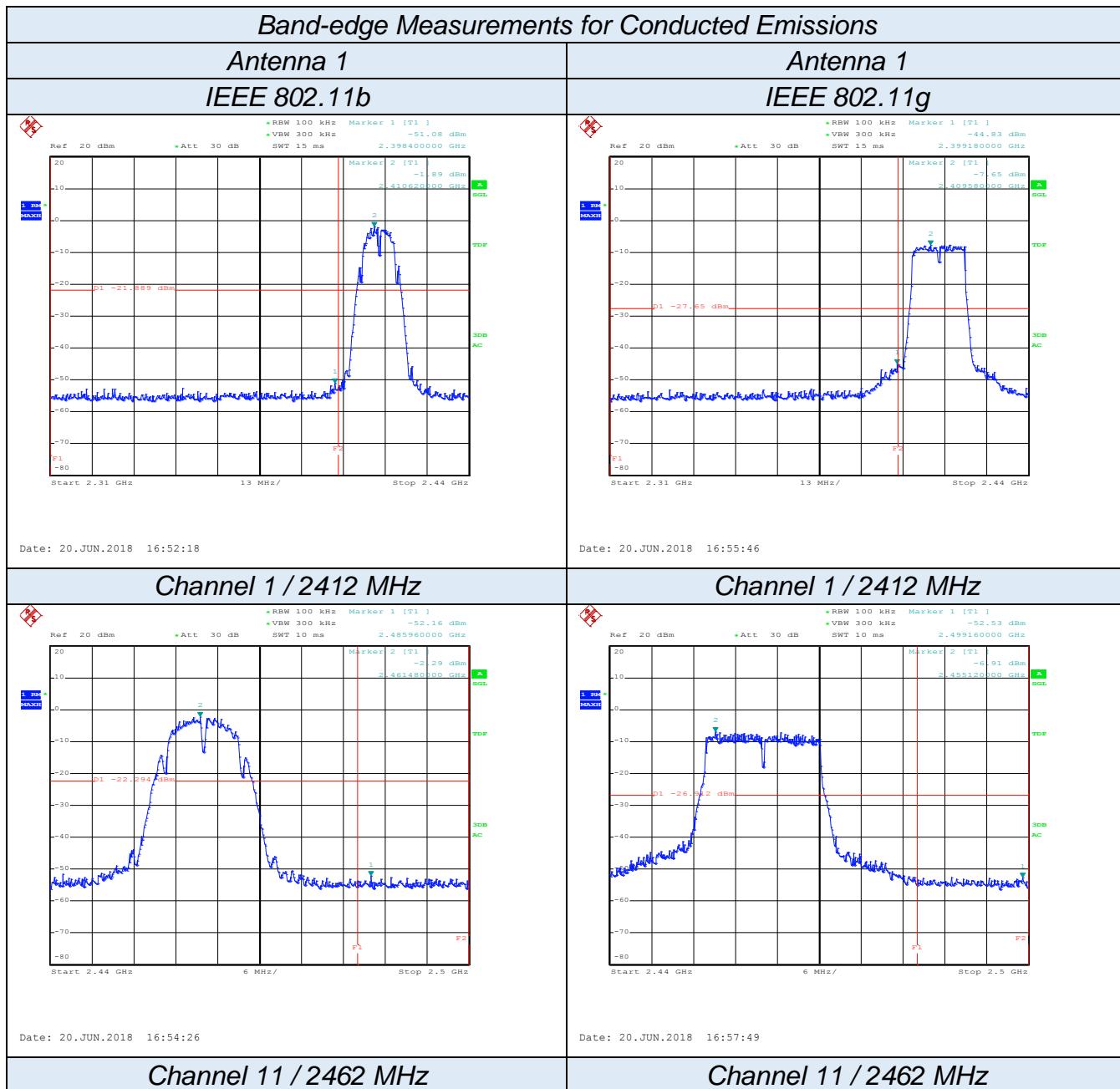
10 GHz – 26 GHz

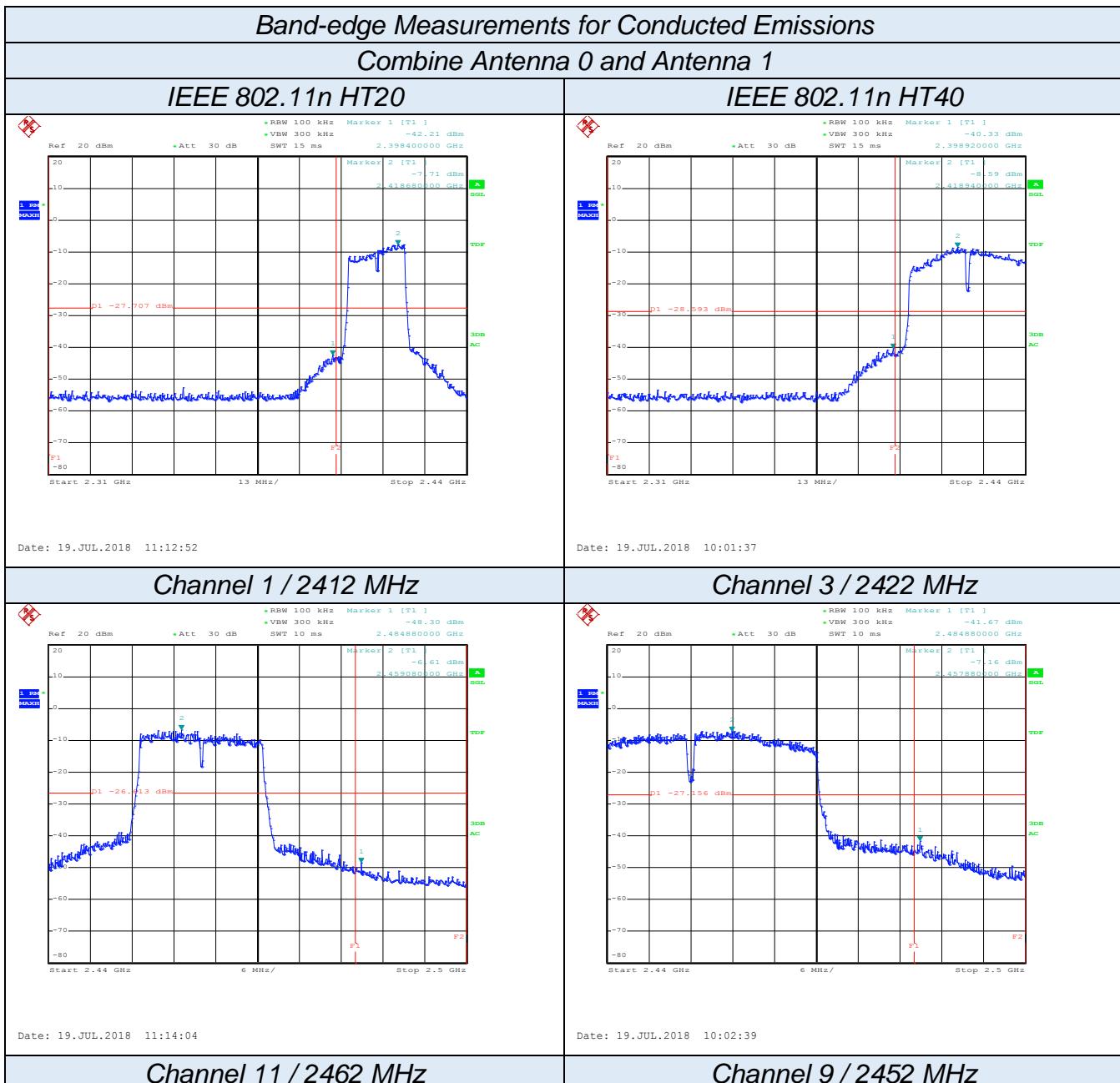
10 GHz – 26 GHz











5.7. Power line conducted emissions

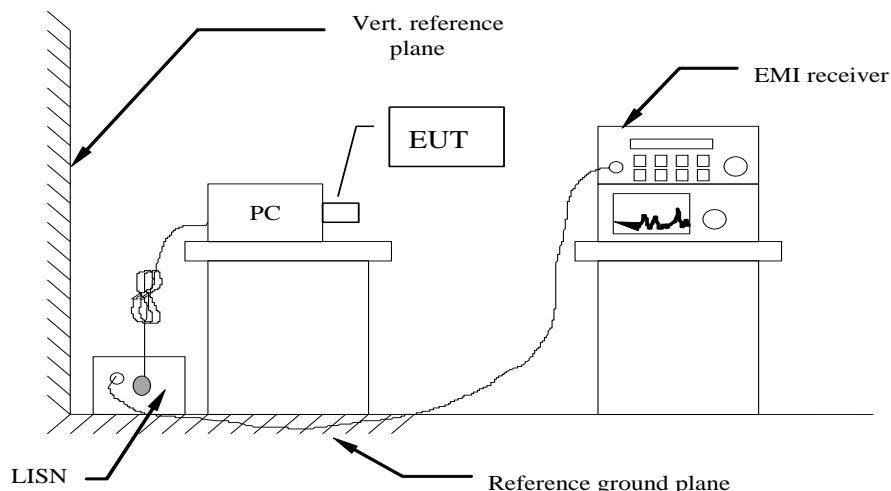
5.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

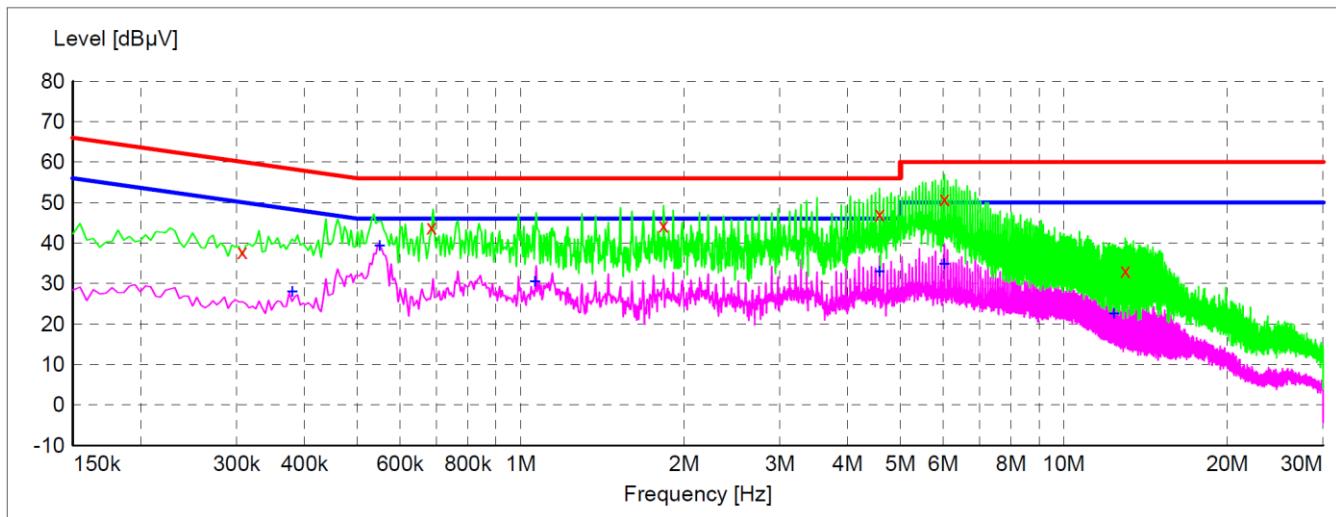
5.7.2 Block Diagram of Test Setup



5.7.3 Test Results

Temperature	24.5°C	Humidity	56.2%
Test Engineer	Gary Qian	Configurations	802.11n HT40 Low Channel, Chain 0+Chain 1
Test Date	June 26, 2018		

The Worst Test result for 802.11n HT40 (Low Channel) @Chain 0+Chain 1

AC Conducted Emission of power adapter @ AC 120V/60Hz @ IEEE 802.11n HT40 (worst case)
Line


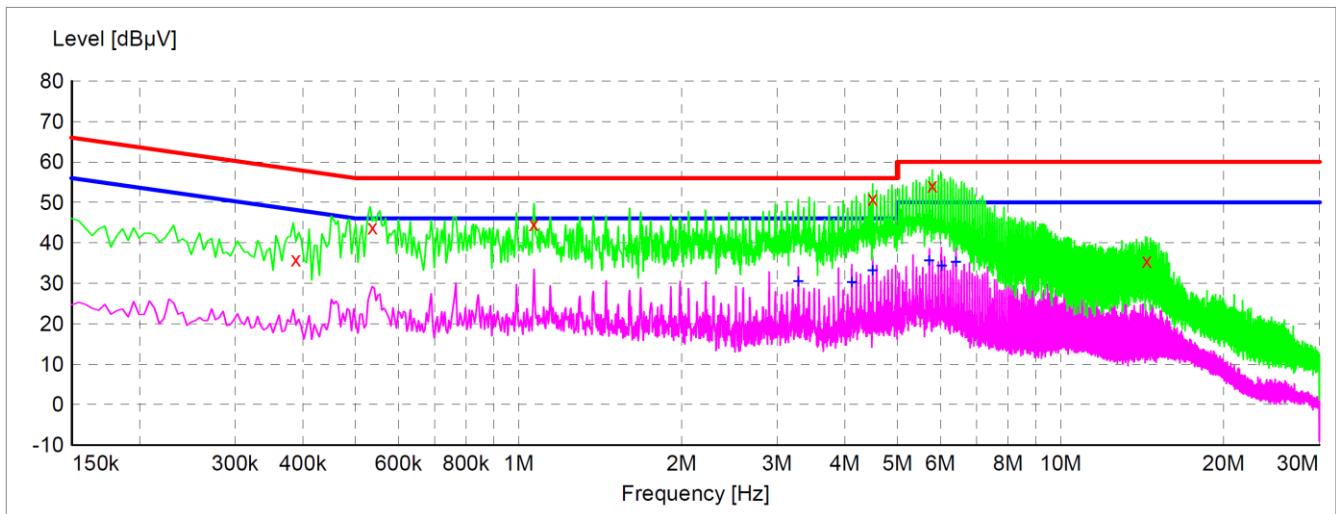
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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0.307500	37.90	10.2	60	22.1	QP	L1	GND
0.685500	43.90	9.9	56	12.1	QP	L1	GND
1.833000	44.40	9.8	56	11.6	QP	L1	GND
4.582500	47.10	9.8	56	8.9	QP	L1	GND
6.027000	50.90	9.8	60	9.1	QP	L1	GND
12.979500	33.20	9.9	60	26.8	QP	L1	GND

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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0.379500	27.90	10.1	48	20.4	AV	L1	GND
0.550500	39.30	10.0	46	6.7	AV	L1	GND
1.063500	30.40	9.8	46	15.6	AV	L1	GND
4.578000	32.80	9.8	46	13.2	AV	L1	GND
6.027000	34.70	9.8	50	15.3	AV	L1	GND
12.363000	22.40	9.9	50	27.6	AV	L1	GND

Neutral



Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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0.388500	35.90	10.1	58	22.2	QP	N	GND
0.537000	43.90	10.0	56	12.1	QP	N	GND
1.068000	44.70	9.8	56	11.3	QP	N	GND
4.501500	51.00	9.8	56	5.0	QP	N	GND
5.797500	54.30	9.8	60	5.7	QP	N	GND
14.424000	35.60	9.9	60	24.4	QP	N	GND

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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3.282000	30.50	9.8	46	15.5	AV	N	GND
4.123500	30.20	9.8	46	15.8	AV	N	GND
4.501500	33.10	9.8	46	12.9	AV	N	GND
5.721000	35.60	9.8	50	14.4	AV	N	GND
6.031500	34.30	9.8	50	15.7	AV	N	GND
6.409500	35.20	9.8	50	14.8	AV	N	GND

***Note: Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11n HT40).

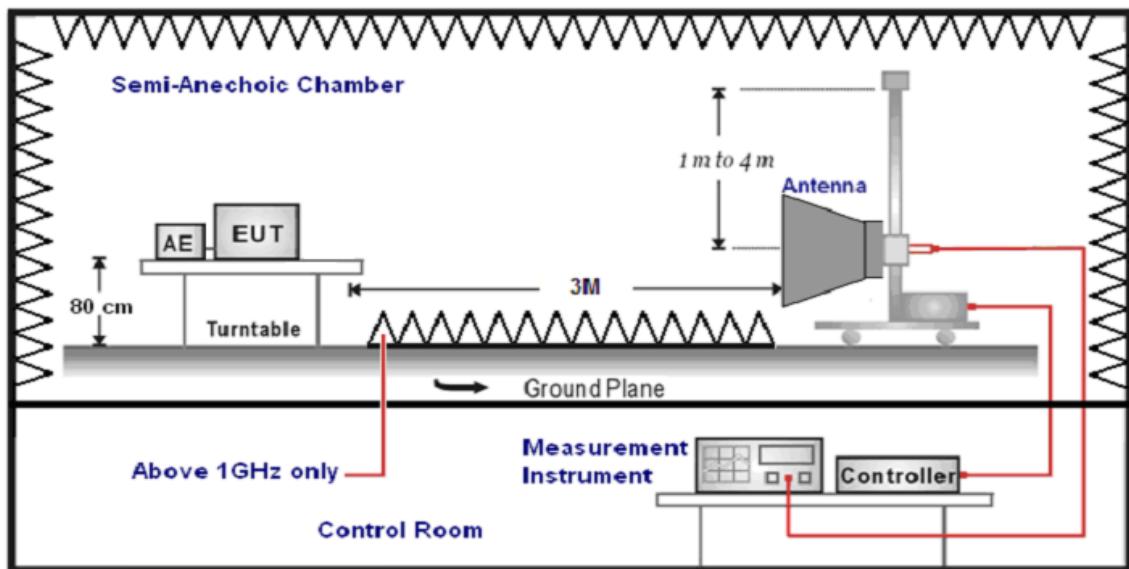
5.8. Band-edge measurements for radiated emissions

5.8.1 Standard Applicable

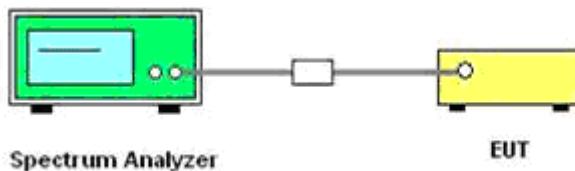
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 20 dB. 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)).

5.8.2 Test Setup Layout

For Radiated



For Conducted



5.8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.8.4. Test Procedures

Radiated Method:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.



3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. The distance between test antenna and EUT was 3 meter:
6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Conducted Method:

According to KDB 558074 D01 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/B for AV detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies \leq 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies $>$ 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the result ant EIRP level to an equivalent electric field strength using the following relationship:

$$E = EIRP - 20\log D + 104.77 = EIRP + 95.23$$

Where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
12. Per KDB662911 D01 section b) In cases where a combination of conducted measurements and cabinet radiated measurements are permitted to demonstrate compliance with absolute radiated out-of-band and spurious limits (e.g., KDB Publications 558074 for DTS and 789033 for U-NII), the conducted measurements must be combined with directional gain to compute the radiated levels of the out-of-band and spurious emissions as described in this section.
13. Compare the resultant electric field strength level to the applicable regulatory limit.
14. Perform radiated spurious emission test duress until all measured frequencies were complete.



5.8.5 Test Results

Antenna 0

IEEE 802.11b										
Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	54.70	29.99	30.21	8.35	62.83	74	-11.17	Peak	Horizontal
1	2390.00	36.78	29.99	30.21	8.35	44.91	54	-9.09	AV ¹¹	Horizontal
2	2390.00	57.14	29.99	30.21	8.35	65.27	74	-8.73	Peak	Vertical
2	2390.00	36.72	29.99	30.21	8.35	44.85	54	-9.15	AV ¹¹	Vertical
3	2483.50	53.58	30.25	30.25	8.5	62.08	74	-11.92	Peak	Horizontal
3	2483.50	24.92	30.25	30.25	8.5	33.42	54	-20.58	AV ¹¹	Horizontal
4	2483.50	49.04	30.25	30.25	8.5	57.54	74	-16.46	Peak	Vertical
4	2483.50	26.05	30.25	30.25	8.5	34.55	54	-19.45	AV ¹¹	Vertical
5	2489.38	57.74	30.25	30.25	8.5	66.24	74	-7.76	Peak	Horizontal
5	2487.44	36.95	30.25	30.25	8.5	45.45	54	-8.55	AV ¹¹	Horizontal
6	2498.34	49.45	30.25	30.25	8.5	57.95	74	-16.05	Peak	Vertical
6	2498.17	36.58	30.25	30.25	8.5	45.08	54	-8.92	AV ¹¹	Vertical

IEEE 802.11g										
Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	54.21	29.99	30.21	8.35	62.34	74	-11.66	Peak	Horizontal
1	2390.00	36.47	29.99	30.21	8.35	44.60	54	-9.40	AV ¹¹	Horizontal
2	2390.00	57.46	29.99	30.21	8.35	65.59	74	-8.41	Peak	Vertical
2	2390.00	38.53	29.99	30.21	8.35	46.66	54	-7.34	AV ¹¹	Vertical
3	2483.50	56.28	30.25	30.25	8.5	64.78	74	-9.22	Peak	Horizontal
3	2483.50	26.12	30.25	30.25	8.5	34.62	54	-19.38	AV ¹¹	Horizontal
4	2483.50	51.92	30.25	30.25	8.5	60.42	74	-13.58	Peak	Vertical
4	2483.50	28.73	30.25	30.25	8.5	37.23	54	-16.77	AV ¹¹	Vertical
5	2486.39	55.70	30.25	30.25	8.5	64.20	74	-9.80	Peak	Horizontal
5	2485.46	35.00	30.25	30.25	8.5	43.50	54	-10.50	AV ¹¹	Horizontal
6	2498.22	48.03	30.25	30.25	8.5	56.53	74	-17.47	Peak	Vertical
6	2497.49	37.69	30.25	30.25	8.5	46.19	54	-7.81	AV ¹¹	Vertical



Antenna 1

IEEE 802.11b										
Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	57.25	29.99	30.21	8.35	65.38	74	-8.62	Peak	Horizontal
1	2390.00	39.34	29.99	30.21	8.35	47.47	54	-6.53	AV ^{ITJ}	Horizontal
2	2390.00	54.71	29.99	30.21	8.35	62.84	74	-11.16	Peak	Vertical
2	2390.00	40.26	29.99	30.21	8.35	48.39	54	-5.61	AV ^{ITJ}	Vertical
3	2483.50	56.87	30.25	30.25	8.5	65.37	74	-8.63	Peak	Horizontal
3	2483.50	29.16	30.25	30.25	8.5	37.66	54	-16.34	AV ^{ITJ}	Horizontal
4	2483.50	50.97	30.25	30.25	8.5	59.47	74	-14.53	Peak	Vertical
4	2483.50	27.85	30.25	30.25	8.5	36.35	54	-17.65	AV ^{ITJ}	Vertical
5	2485.93	59.05	30.25	30.25	8.5	67.55	74	-6.45	Peak	Horizontal
5	2488.29	37.26	30.25	30.25	8.5	45.76	54	-8.24	AV ^{ITJ}	Horizontal
6	2496.72	49.83	30.25	30.25	8.5	58.33	74	-15.67	Peak	Vertical
6	2498.21	36.69	30.25	30.25	8.5	45.19	54	-8.81	AV ^{ITJ}	Vertical

IEEE 802.11g										
Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	57.71	29.99	30.21	8.35	65.84	74	-8.16	Peak	Horizontal
1	2390.00	38.09	29.99	30.21	8.35	46.22	54	-7.78	AV ^{ITJ}	Horizontal
2	2390.00	58.34	29.99	30.21	8.35	66.47	74	-7.53	Peak	Vertical
2	2390.00	40.72	29.99	30.21	8.35	48.85	54	-5.15	AV ^{ITJ}	Vertical
3	2483.50	57.76	30.25	30.25	8.5	66.26	74	-7.74	Peak	Horizontal
3	2483.50	27.72	30.25	30.25	8.5	36.22	54	-17.78	AV ^{ITJ}	Horizontal
4	2483.50	49.41	30.25	30.25	8.5	57.91	74	-16.09	Peak	Vertical
4	2483.50	25.30	30.25	30.25	8.5	33.80	54	-20.20	AV ^{ITJ}	Vertical
5	2487.18	54.48	30.25	30.25	8.5	62.98	74	-11.02	Peak	Horizontal
5	2487.04	36.29	30.25	30.25	8.5	44.79	54	-9.21	AV ^{ITJ}	Horizontal
6	2499.38	47.09	30.25	30.25	8.5	55.59	74	-18.41	Peak	Vertical
6	2497.88	39.54	30.25	30.25	8.5	48.04	54	-5.96	AV ^{ITJ}	Vertical



Antenna 0 and 1

IEEE 802.11n HT20

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	58.33	29.99	30.21	8.35	66.46	74	-7.54	Peak	Horizontal
1	2390.00	41.42	29.99	30.21	8.35	49.55	54	-4.45	AV ¹¹	Horizontal
2	2390.00	61.13	29.99	30.21	8.35	69.26	74	-4.74	Peak	Vertical
2	2390.00	41.80	29.99	30.21	8.35	49.93	54	-4.07	AV ¹¹	Vertical
3	2483.50	57.94	30.25	30.25	8.5	66.44	74	-7.56	Peak	Horizontal
3	2483.50	27.20	30.25	30.25	8.5	35.70	54	-18.30	AV ¹¹	Horizontal
4	2483.50	51.10	30.25	30.25	8.5	59.60	74	-14.40	Peak	Vertical
4	2483.50	29.72	30.25	30.25	8.5	38.22	54	-15.78	AV ¹¹	Vertical
5	2484.68	58.08	30.25	30.25	8.5	66.58	74	-7.42	Peak	Horizontal
5	2482.96	37.84	30.25	30.25	8.5	46.34	54	-7.66	AV ¹¹	Horizontal
6	2499.67	50.72	30.25	30.25	8.5	59.22	74	-14.78	Peak	Vertical
6	2498.66	40.04	30.25	30.25	8.5	48.54	54	-5.46	AV ¹¹	Vertical

IEEE 802.11n HT40

Item (Mark)	Freq (MHz)	Read Level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	56.03	29.99	30.21	8.35	64.16	74	-9.84	Peak	Horizontal
1	2390.00	41.06	29.99	30.21	8.35	49.19	54	-4.81	AV ¹¹	Horizontal
2	2390.00	58.48	29.99	30.21	8.35	66.61	74	-7.39	Peak	Vertical
2	2390.00	40.13	29.99	30.21	8.35	48.26	54	-5.74	AV ¹¹	Vertical
3	2483.50	57.53	30.25	30.25	8.5	66.03	74	-7.97	Peak	Horizontal
3	2483.50	31.42	30.25	30.25	8.5	39.92	54	-14.08	AV ¹¹	Horizontal
4	2483.50	54.96	30.25	30.25	8.5	63.46	74	-10.54	Peak	Vertical
4	2483.50	29.82	30.25	30.25	8.5	38.32	54	-15.68	AV ¹¹	Vertical
5	2485.86	59.16	30.25	30.25	8.5	67.66	74	-6.34	Peak	Horizontal
5	2485.69	37.32	30.25	30.25	8.5	45.82	54	-8.18	AV ¹¹	Horizontal
6	2499.54	54.02	30.25	30.25	8.5	62.52	74	-11.48	Peak	Vertical
6	2495.09	38.77	30.25	30.25	8.5	47.27	54	-6.73	AV ¹¹	Vertical

REMARKS:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. The other emission levels were very low against the limit.
3. Over Limit= Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak;



5.9. Antenna Requirements

5.9.1. Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.9.2. Antenna Connected Construction

5.9.2.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 2.15dBi, and the antenna is a Internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.9.2.3. Results: Compliance.

Measurement

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

Conducted power refers ANSI C63.10:2013 Output power test procedure for DTS devices.

Radiated power refers to ANSI C63.10:2013 Radiated emissions tests.

Measurement parameters

Measurement parameter	
Detector:	Peak
Sweep Time:	Auto
Resolution bandwidth:	1MHz
Video bandwidth:	3MHz
Trace-Mode:	Max hold

Note: The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the IEEE 802.11b mode is used.



Limits

FCC	ISED
Antenna Gain	
6 dBi	

Antenna 0

T _{nom}	V _{nom}	Lowest Channel 2412 MHz	Middle Channel 2437 MHz	Highest Channel 2462 MHz
Conducted power [dBm] Measured with DSSS modulation		10.61	10.45	10.76
Radiated power [dBm] Measured with DSSS modulation		11.87	11.66	11.86
Gain [dBi] Calculated		1.26	1.21	1.1
Measurement uncertainty		± 1.6 dB (cond.) / ± 3.8 dB (rad.)		

Antenna 1

T _{nom}	V _{nom}	Lowest Channel 2412 MHz	Middle Channel 2437 MHz	Highest Channel 2462 MHz
Conducted power [dBm] Measured with DSSS modulation		12.26	11.63	11.76
Radiated power [dBm] Measured with DSSS modulation		12.82	12.00	12.47
Gain [dBi] Calculated		0.56	0.37	0.71
Measurement uncertainty		± 1.6 dB (cond.) / ± 3.8 dB (rad.)		



6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B	HKE-083	Dec. 28, 2017	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2017	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2017	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2017	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year



7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

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