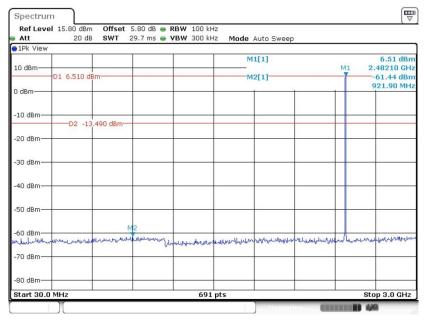
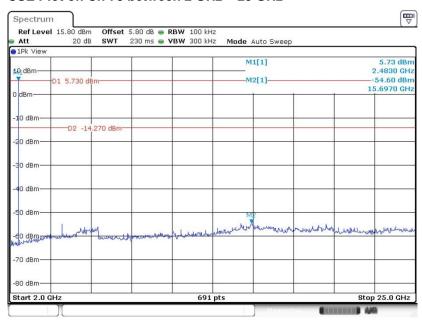
CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 20.JAN.2019 19:59:44

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 20.JAN.2019 20:00:12

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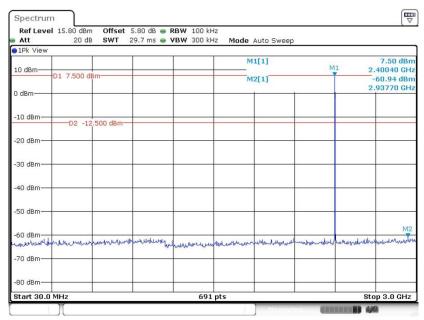
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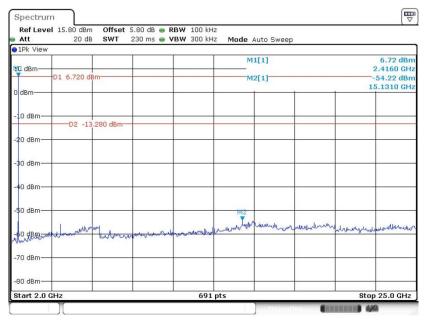
Test Mode :	3Mbps	Temperature :	21~24℃
Test Channel :	00	Relative Humidity :	49~51%
		Test Engineer :	Ivan Zhang

CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 20.JAN.2019 20:08:38

CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



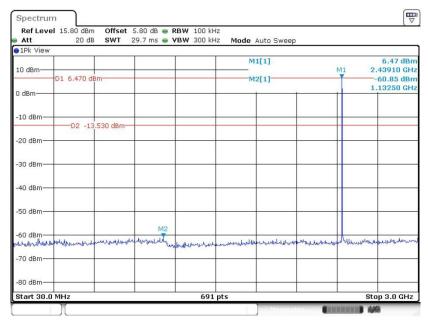
Date: 20.JAN.2019 20:09:05

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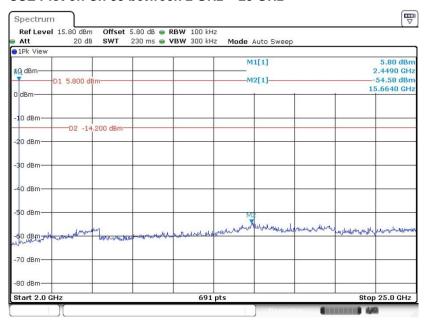
Report No.: FR8D2801A

CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 20.JAN.2019 20:17:37

CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

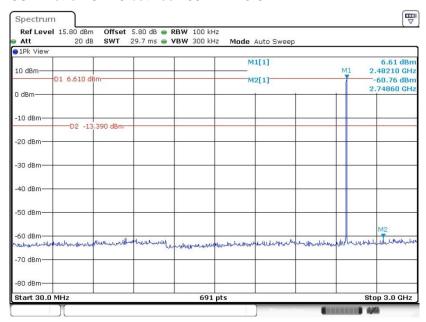


Date: 20.JAN.2019 20:18:05

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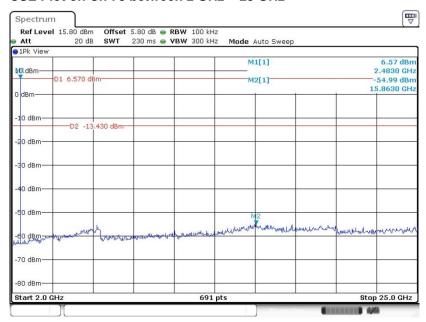
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CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 20.JAN.2019 20:06:44

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 20.JAN.2019 20:07:12

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3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.8.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

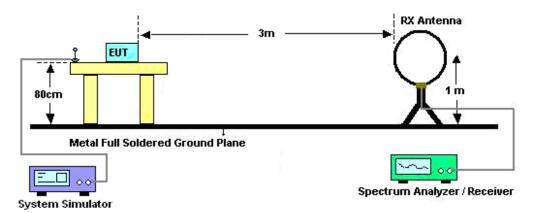
- 6. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

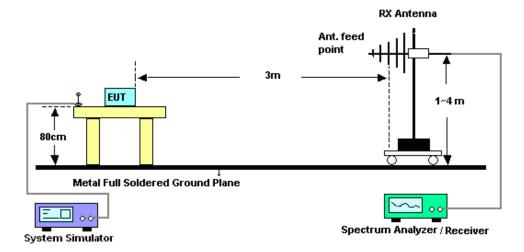
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3.8.4 Test Setup

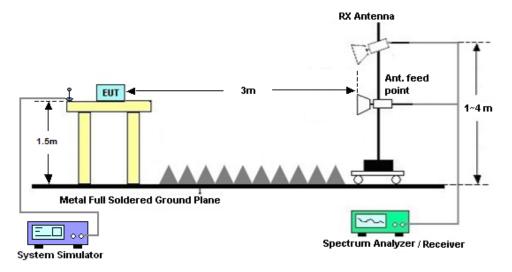
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix C.

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3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that 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 the limits in the following table.

Eroquency of emission (MUz)	Conducted limit (dBμV)					
Frequency of emission (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				

^{*}Decreases with the logarithm of the frequency.

3.9.2 Measuring Instruments

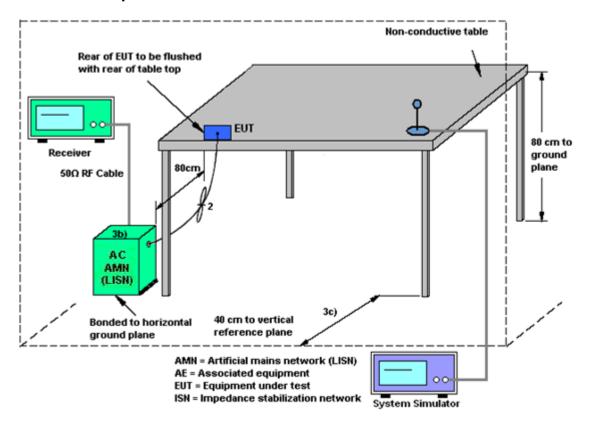
The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

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3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark	
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Jan. 04, 2019~ Jan. 21, 2019	Aug. 06, 2019	Conducted (TH01-KS)	
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 18, 2018	Jan. 04, 2019~	Jan. 17, 2019	Conducted (TH01-KS)	
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 14, 2019	Jan. 21, 2019	Jan. 13, 2020	Conducted (TH01-KS)	
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Jan. 04, 2019~	Jan. 17, 2019	Conducted (TH01-KS)	
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 14, 2019	Jan. 21, 2019	Jan. 13, 2020	Conducted (TH01-KS)	
EMI Test Receiver	Keysight	N9038A	MY564000 23	3Hz~8.5GHz;M ax 30dBm	Oct. 12, 2018	Jan. 25, 2019	Oct. 11, 2019	Radiation (03CH06-KS)	
EXA Spectrum Analyzer	Keysight	N9010B	MY574710 84	10Hz-44GHz	Jun. 25, 2018	Jan. 25, 2019	Jun. 24, 2019	Radiation (03CH06-KS)	
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 19, 2018	Jan. 25, 2019	Oct. 18, 2019	Radiation (03CH06-KS)	
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Jan. 25, 2019	Jan. 28, 2019	Radiation (03CH06-KS)	
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Jan. 25, 2019 Oct. 19, 2019		Radiation (03CH06-KS)	
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA1702 49	15GHz~40GHz	Feb. 07, 2018	Jan. 25, 2019	Feb. 06, 2019	Radiation (03CH06-KS)	
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Jan. 25, 2019	Aug. 05, 2019	Radiation (03CH06-KS)	
Amplifier	MITEQ	TTA1840-35- HG	2014749	18~40GHz	Feb. 08, 2018	Jan. 25, 2019	Feb. 07, 2019	Radiation (03CH06-KS)	
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Jan. 25, 2019	Apr. 16, 2019	Radiation (03CH06-KS)	
Amplifier	Keysight	83017A	MY532702 03	500MHz~26.5G Hz	Apr. 18, 2018	Jan. 25, 2019	Apr. 17, 2019	Radiation (03CH06-KS)	
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Jan. 25, 2019	NCR	Radiation (03CH06-KS)	
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 25, 2019	NCR	Radiation (03CH06-KS)	
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 25, 2019	NCR	Radiation (03CH06-KS)	
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Hz~7GHz; Apr. 19, 2018 Jan. 15, 2019 Apr. 18, 2019		Apr. 18, 2019	Conduction (CO01-KS)	
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 12, 2018	Jan. 15, 2019	Oct. 11, 2019	Conduction (CO01-KS)	
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Nov. 19, 2018	Jan. 15, 2019	Nov. 18, 2019	Conduction (CO01-KS)	
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2018	Jan. 15, 2019	Oct. 11, 2019	Conduction (CO01-KS)	

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.9dB
of 95% $(U = 2Uc(y))$	2.900

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	15
of 95% (U = 2Uc(y))	5.0dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measurin	g Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	5.00B

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

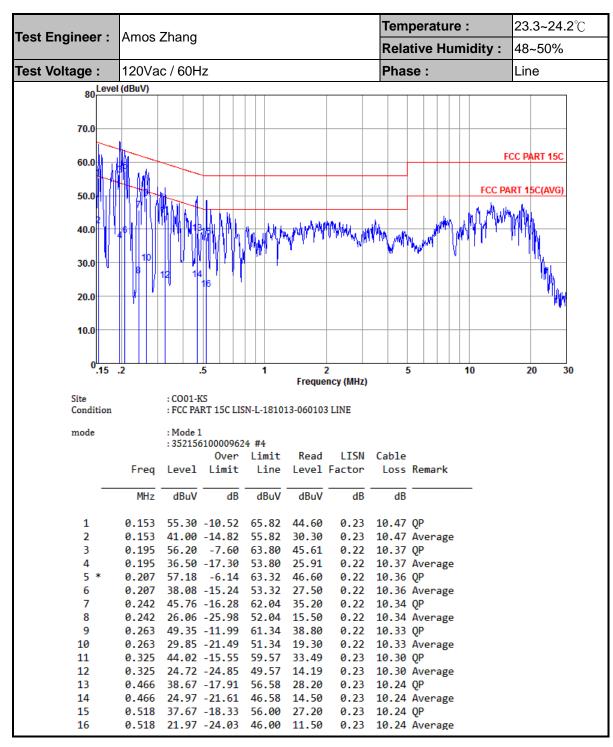
<u></u>	<u> </u>
Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.0ub

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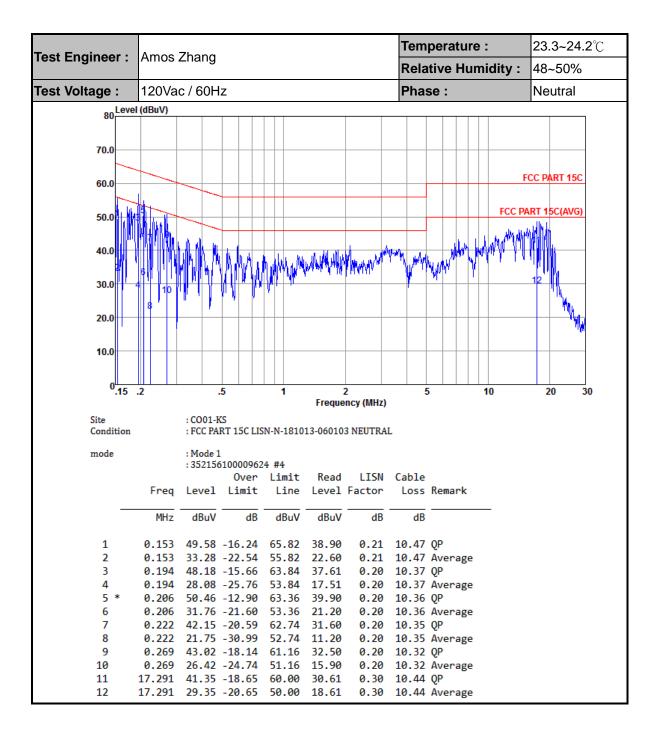
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Appendix A. AC Conducted Emission Test Results



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Appendix B. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2388.13	46.11	-27.89	74	47.88	25.6	5.63	33	100	262	Р	Н
		2388.13	21.32	-32.68	54	-	-	-	-	-	ı	Α	Н
DT	*	2402	97.33	-	-	99.13	25.6	5.63	33.03	100	262	Р	Н
BT CH00	*	2402	72.54	-	-	-	-	ı	-	-	ı	Α	Н
2402MHz		2377.99	45.78	-28.22	74	47.62	25.55	5.61	33	300	84	Р	V
240211112		2377.99	20.99	-33.01	54	-	-	ı	-	-	ı	Α	V
	*	2402	91.86	-	-	93.66	25.6	5.63	33.03	300	84	Р	V
	*	2402	67.07	ı	1	-	-	ı	-	ı	ı	Α	V
	*	2480	95.14	1	1	95.38	26.53	5.72	32.49	135	249	Р	Н
	*	2480	70.35	-	-	-	-	-	-	1	1	Α	Н
		2483.56	48.53	-25.47	74	48.77	26.53	5.72	32.49	135	249	Р	Н
BT		2483.56	23.74	-30.26	54	-	-	-	-	-	-	Α	Н
CH 78 2480MHz	*	2480	93.86	-	-	94.1	26.53	5.72	32.49	300	81	Р	V
2400WIF12	*	2480	69.07	-	-	-	-	-	-	-	-	Α	V
		2483.56	51.28	-22.72	74	51.52	26.53	5.72	32.49	300	81	Р	V
		2483.56	26.49	-27.51	54	-	-	-	-	-	1	Α	V

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15C 2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

вт	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
ВТ		4806	37.12	-36.88	74	61.57	30.88	8.43	63.76	150	360	Р	Н
CH 00 2402MHz		4806	39.62	-34.38	74	64.07	30.88	8.43	63.76	150	0	Р	V
		4884	37.74	-36.26	74	61.99	31.05	8.43	63.73	150	360	Р	Н
BT		7323	39.18	-34.82	74	57.91	35.56	10.08	64.37	150	360	Р	Н
CH 39 2441MHz		4884	42.34	-31.66	74	66.59	31.05	8.43	63.73	150	0	Р	V
244 (1911)2		7320	39.75	-34.25	74	58.48	35.56	10.08	64.37	150	0	Р	V
DT		4962	37.89	-36.11	74	61.87	31.27	8.44	63.69	150	360	Р	Н
BT CH 78		7440	39.89	-34.11	74	58.29	35.8	10.18	64.38	150	360	Р	Н
2480MHz		4960	40.5	-33.5	74	64.48	31.27	8.44	63.69	150	0	Р	V
2-100111112		7440	40.7	-33.3	74	59.1	35.8	10.18	64.38	150	0	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C Emission below 1GHz

2.4GHz BT (LF)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	20.22	-19.78	40	27.09	24.5	0.61	31.98	100	0	Р	Н
		126.03	15.78	-27.72	43.5	28.75	17.83	1.14	31.94	-	-	Р	Н
		274.44	17.08	-28.92	46	28.45	18.87	1.78	32.02	ı	1	Р	Н
		581.93	21.77	-24.23	46	27.51	24.1	2.54	32.38	ı	1	Р	Н
0.4011		705.12	22.54	-23.46	46	27.55	24.66	2.66	32.33	ı	1	Р	Н
2.4GHz BT		972.84	25.9	-28.1	54	26.32	27.2	3.15	30.77	ı	1	Р	Н
LF		42.61	27.24	-12.76	40	41.06	17.44	0.69	31.95	100	0	Р	V
		66.86	19.39	-20.61	40	37.94	12.54	0.84	31.93	-	-	Р	V
		233.7	23.96	-22.04	46	37.62	16.64	1.64	31.94	1	1	Р	V
		610.06	22.29	-23.71	46	27.78	24.33	2.58	32.4	1	1	Р	V
		779.81	23.51	-22.49	46	27.3	25.56	2.82	32.17	1	1	Р	V
		935.98	25.91	-20.09	46	27.15	26.8	3.08	31.12	1	1	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Note symbol

	Fundamental Frequency which can be ignored. However, the level of any
*	unwanted emissions shall not exceed the level of the fundamental frequency per
	15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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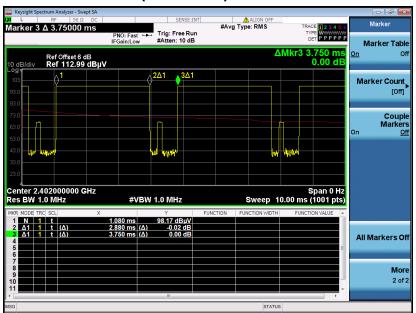
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 Report Issued Date
 : Feb. 27, 2019

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 Report Version
 : Rev. 01

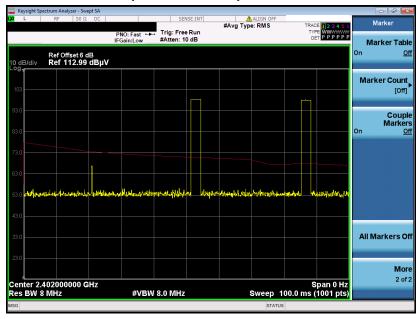
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Appendix C. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.88 / 100 = 5.76 \%$
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
- 3. DH5 has the highest duty cycle worst case and is reported.

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