

RF TEST REPORT



Report No.: FCC_RF_SL18120403-SLX-106_UNII Rev_1.0
Supersede Report No.: FCC_RF_SL18120403-SLX-106_UNII

Applicant	:	Silex Technology, Inc
Product Name	:	SX-PCEAC2
Model No.	:	SX-PCEAC2
Test Standard	:	47 CFR 15.407
Test Method	:	ANSI C63.10: 2013
FCC ID	:	N6C-SXPCEAC2
Dates of test	:	03/18/2019 – 03/26/2019
Issue Date	:	04/22/2019
Test Result	:	☒ Pass ☐ Fail
Equipment complied with the specification [X]		
Equipment did not comply with the specification []		

This Test Report is Issued Under the Authority of:	
	
Deon Dai	Chen Ge
Test Engineer	Engineer Reviewer
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Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRR, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & Radio Equipment Directive (RED)
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_RF_SL18120403-SLX-106_UNII	None	Original	03/28/2019
FCC_RF_SL18120403-SLX-106_UNII Rev_1.0	Rev_1.0	Add Supporting Equipment Discription	04/22/2019

2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company:	Silex Technology, Inc
Product:	SX-PCEAC2
Model:	SX-PCEAC2

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	Silex Technology, Inc.
Applicant Address	2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan
Manufacturer Name	Silex Technology, Inc.
Manufacturer Address	2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	540430
IC Test Site No.	4842D
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	SX-PCEAC2
Model No.	SX-PCEAC2
Trade Name	Silex
Serial No.	N/A
Host Model No.	N/A
Input Power	12V DC 5A
Power Adapter Manu/Model	MEAN WELL / GST60A12-ZD
Power Adapter SN	EB76A03889
Date of EUT received	03/14/2019
Equipment Class/ Category	U-NII
Clock Frequencies	N/A
Port/Connectors	N/A

6.2 Radio Description

Radio Type	802.11a(20MHz)	802.11ac(20MHz)	802.11ac(40MHz)	802.11ac (80MHz)
Operating Frequency	5180-5240MHz 5260-5320MHz 5500-5720MHz 5745-5825MHz		5190-5310MHz 5510-5710MHz 5755-5795MHz	5210MHz,5290MHz 5530MHz,5610MHz 5775MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing	20MHz		40MHz	80MHz
Number of Channels	25		12	5
Antenna Type	Screw Mount Omni-Directional Antenna			
Antenna Gain (Peak)	MIMO1: 1.6dBi, MIMO2: 2.3dBi			
Antenna Connector Type	RP-SMA Male			
Note	-			

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	ThinkPad T420s	N/A	Lenovo	-
2	Console Cable	USB to RJ45 Cable	-	Moyina	-
3	Control Board	170-29615 Rev B2	-	-	-

7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
Console Cable	EUT	Micro-USB Port	Laptop	USB	1.8	Unshielded	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Tera Term	Set the EUT to transmit continuously in different test mode

8 Test Summary

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Antenna Requirement	FCC	15.203	FCC	ANSI C63.10 – 2013 558074 D01 DTS Meas. Guidance v05r01	☒ Pass ☐ N/A
Restricted Band of Operation	FCC	15.205	FCC	ANSI C63.4 – 2014 789033 D02 General UNII Test Procedures New Rules v02r01	☒ Pass* ☐ N/A
AC Conducted Emissions Voltage	FCC	15.207(a)	FCC	ANSI C63.10 – 2013	☒ Pass* ☐ N/A

Test Item	Test standard		Test Method/Procedure		Pass / Fail
99% Bandwidth	FCC	-	FCC	-	☒ Pass* ☐ N/A
26 & 6 dB Emission Bandwidth	FCC	15.407 (a) (2)	FCC	789033 D02 General UNII Test Procedures New Rules v02r01	☒ Pass* ☐ N/A
Maximum conducted Output Power	FCC	15.407 (a) (2)	FCC	789033 D02 General UNII Test Procedures New Rules v02r01	☒ *Pass ☐ N/A
Power reduction (Antenna Gain > 6 dBi)	FCC	15.407 (a) (2)	FCC	-	☒ Pass* ☐ N/A
Band Edge and Radiated Spurious Emissions	FCC	15.407(b)(2), 15.407(b)(6)	FCC	ANSI C63.10 – 2013 789033 D02 General UNII Test Procedures New Rules v02r01	☒ Pass ☐ N/A
Power Spectral Density	FCC	15.407 (a) (2)	FCC	789033 D02 General UNII Test Procedures New Rules v02r01	☒ Pass* ☐ N/A

Remark

1. All measurement uncertainties are not taken into consideration for all presented test result.
2. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.
3. Pass* : Please refer to FCC ID: PPD-QCNFA324 test report no. RF140808E04-1.

9 Measurement Uncertainty

Emissions			
Test Item	Frequency Range	Description	Uncertainty
AC Conducted Emissions	150KHz – 30MHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±3.5dB
RF conducted measurement	150KHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±0.95dB
Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB
Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB

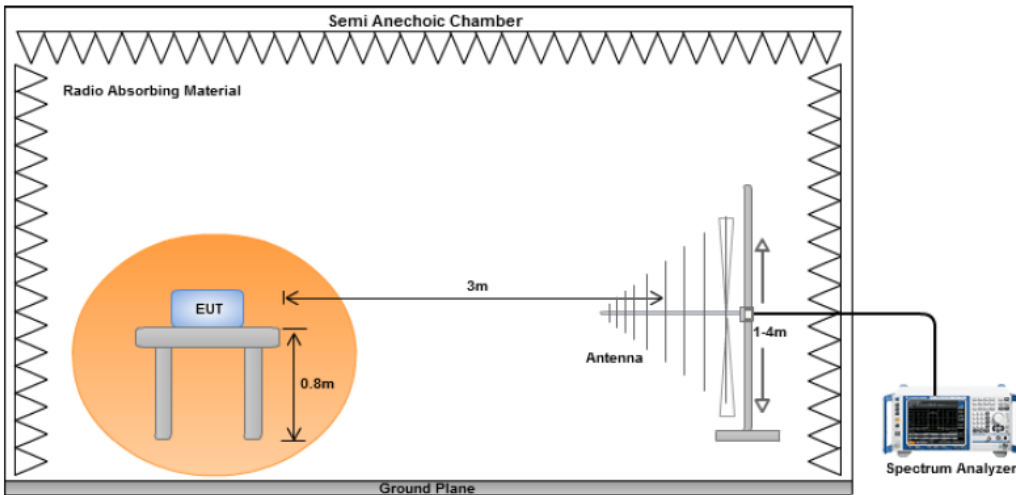
10 Measurements, Examination and Derived Results

10.1 Antenna Requirement

Spec	Requirement	Applicable
§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. Antenna requirement must meet at least one of the following: a) Antenna must be permanently attached to the device. b) The antenna must use a unique type of connector to attach to the device. c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.	☒
Remark	The EUT uses a RP-SMA Male connector for antenna connection which meet the requirement.	
Result	☒ PASS ☐ FAIL	

10.2 Radiated Emissions below 1GHz

Requirement(s):

Spec	Requirement	Applicable										
47CFR§ 15.407(b) 15.209 (a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges <table><thead><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr></thead><tbody><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></tbody></table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)											
30 – 88	100											
88 – 216	150											
216 960	200											
Above 960	500											
Test Setup												
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A Quasi-peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.											
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.											
Result	☒ Pass ☐ Fail											

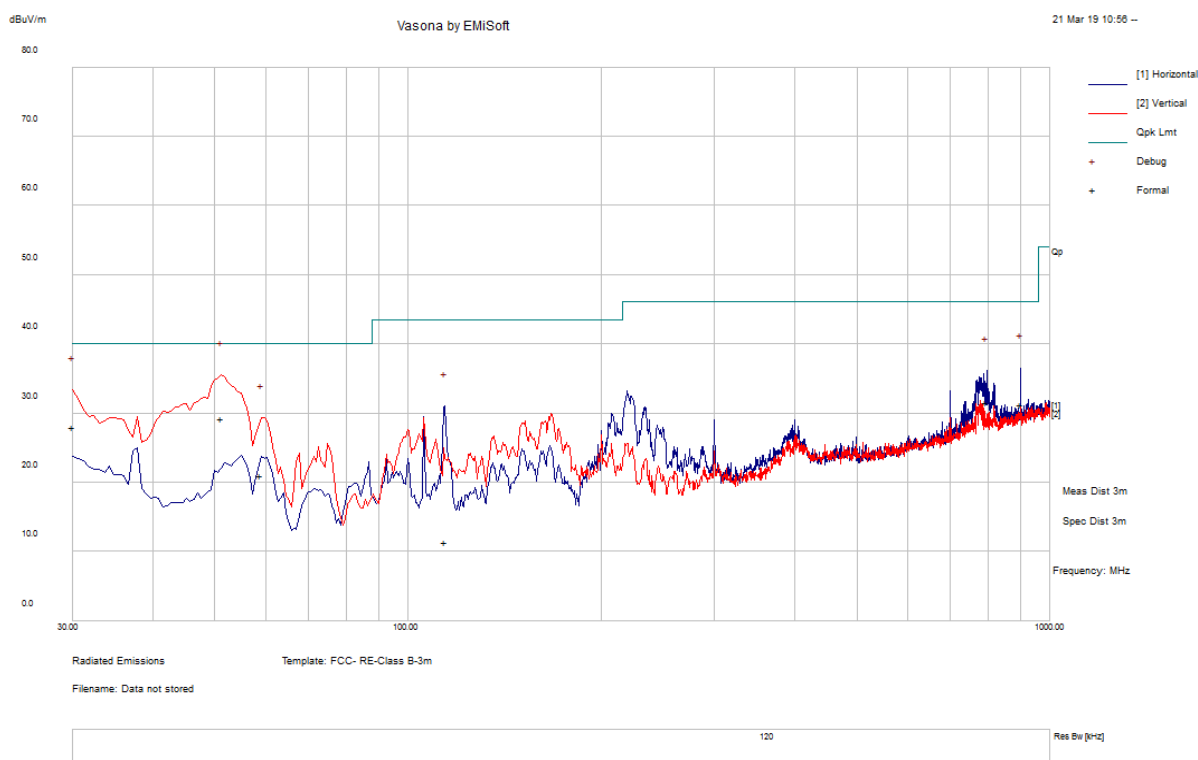
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Deon Dai at 10m chamber.

Radiated Emission Test Results (Below 1GHz)

Test specification	Below 1GHz			
Environmental Conditions:	Temp (°C):	23	Result	Pass
	Humidity (%)	46		
	Atmospheric (mbar):	1017		
Mains Power:	120VAC, 60Hz			
Tested by:	Deon Dai			
Test Date:	03/21/2019			
Remarks:	802.11ac-5210			



Quasi Max Measurement

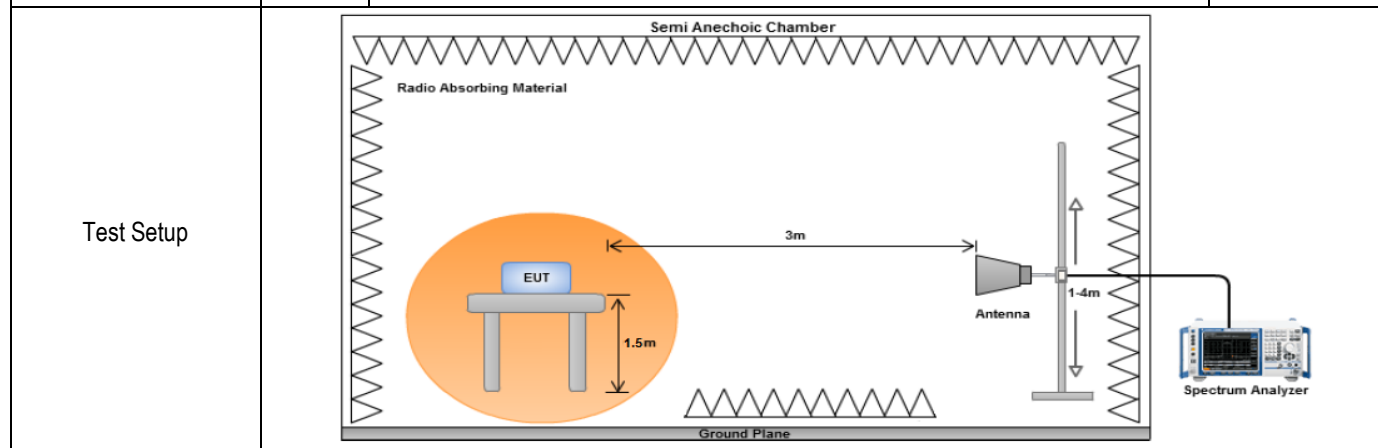
Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
51.31	44.45	11.45	-26.65	29.25	Quasi Max	V	125	76	40	-10.75	Pass
30.00	29.05	11.12	-12.08	28.08	Quasi Max	V	106	248	40	-11.92	Pass
900.04	28.71	15.95	-13.28	31.38	Quasi Max	H	160	48	46	-14.63	Pass
796.82	30.37	15.47	-14.28	31.57	Quasi Max	H	175	78	46	-14.43	Pass
58.88	36.81	11.5	-27.26	21.05	Quasi Max	V	141	84	40	-18.95	Pass
114.07	22.51	12.01	-23.05	11.47	Quasi Max	H	184	70	43.5	-32.04	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

10.3 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(2)	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.	☒
	(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(4)	For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.	☒
	(5)	Restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒



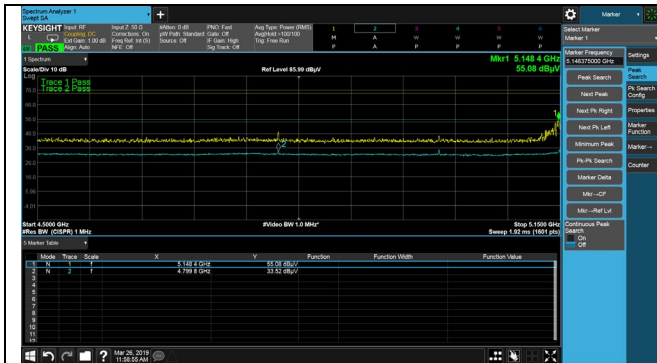
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - An average measurement was then made for that frequency point. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.
Result	☒ Pass ☐ Fail

Test Data ☐ Yes (See below) ☒ N/A

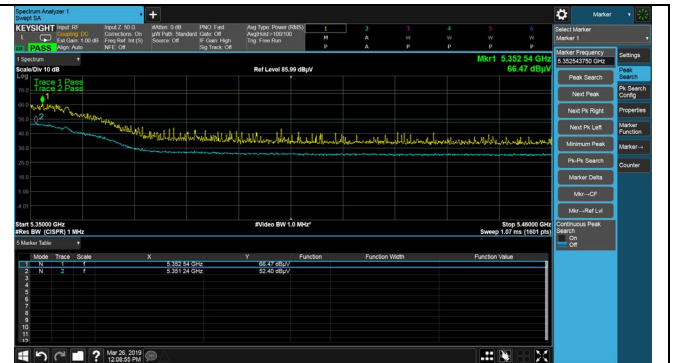
Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Deon Dai at 10m chamber.

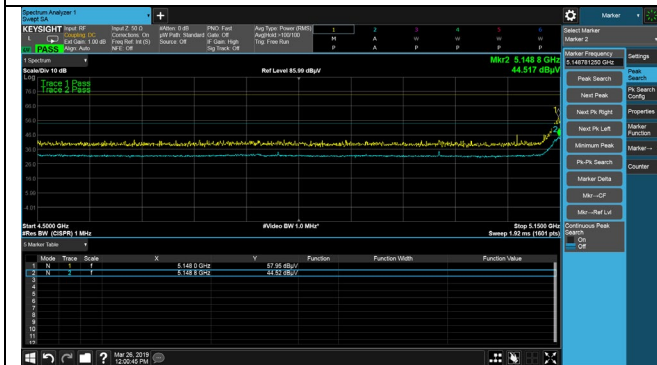
Radiated Restricted band and Band Edge Measurement Plots:



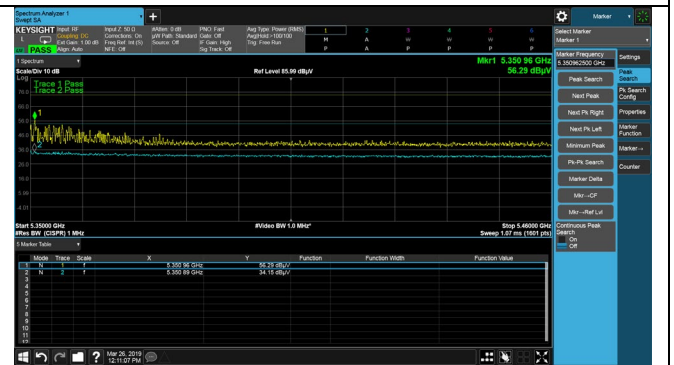
802.11a 5180M



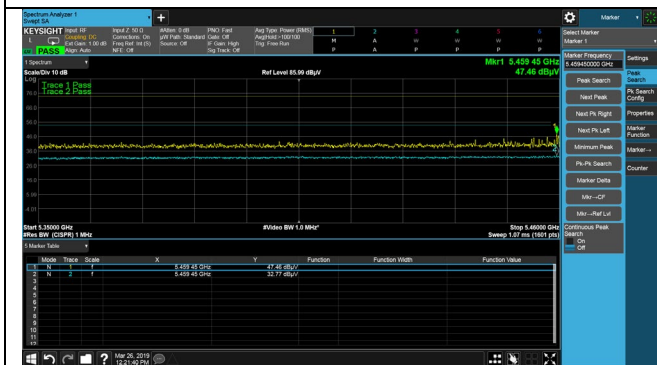
802.11a 5320M



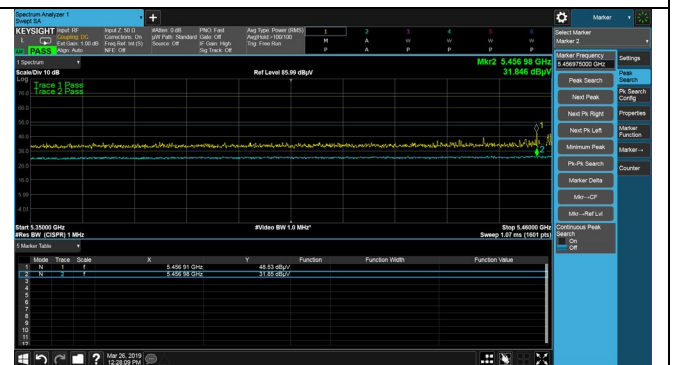
802.11n-HT20 5180M



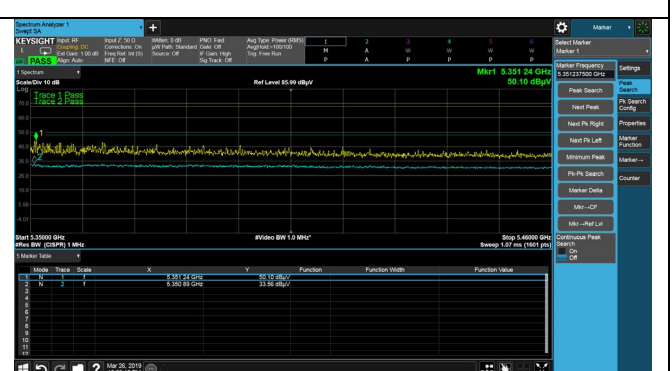
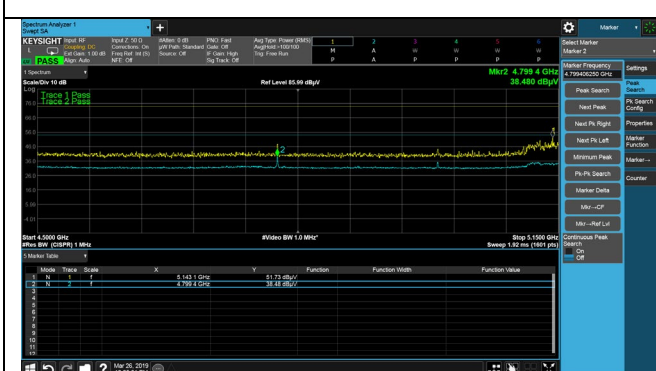
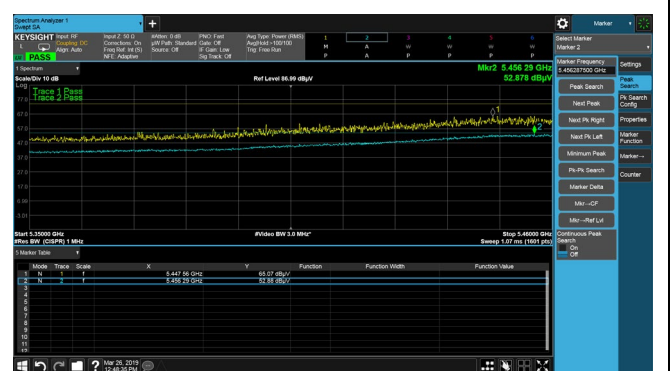
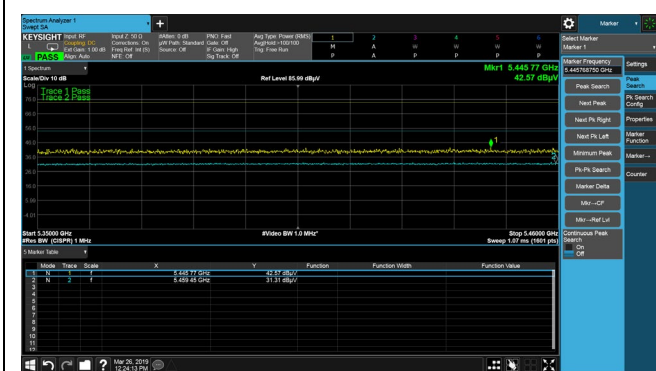
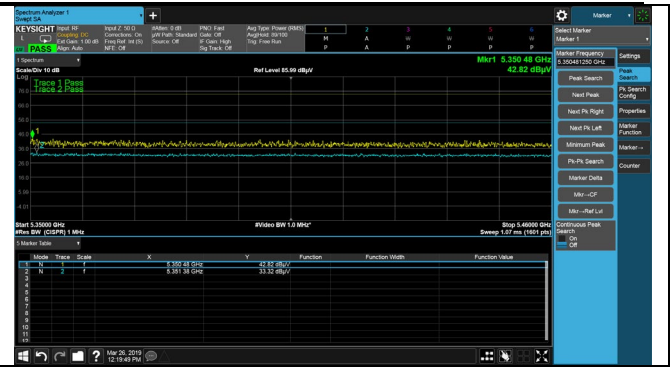
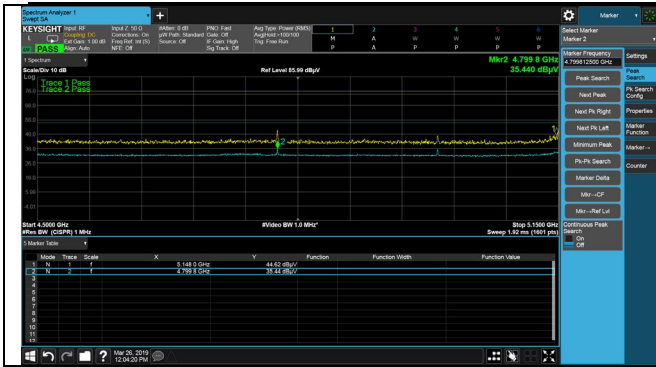
802.11n-HT20 5320M



802.11a 5500M



802.11n-HT20 5500M



Radiated Emission Test Results (Above 1GHz)

1GHz-40GHz – 802.11a – 5180MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7991.28	50.35	5.42	-7.04	48.73	Peak Max	V	207	296	74	-25.27	Pass
10360.39	52.15	6.00	-3.87	54.28	Peak Max	H	221	25	74	-19.72	Pass
13187.54	54.73	6.98	-1.90	59.81	Peak Max	H	168	147	74	-14.19	Pass
7991.28	35.67	5.42	-7.04	34.05	Average Max	V	207	296	54	-19.95	Pass
10360.39	37.89	6.00	-3.87	40.02	Average Max	H	221	25	54	-13.98	Pass
13187.54	40.73	6.98	-1.90	45.81	Average Max	H	168	147	54	-8.19	Pass

1GHz-40GHz – 802.11a – 5200MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7326.63	49.77	5.15	-7.65	47.27	Peak Max	V	205	298	74	-26.73	Pass
10399.96	52.51	6.02	-3.85	54.68	Peak Max	V	223	33	74	-19.32	Pass
13853.92	54.65	7.19	-1.67	60.17	Peak Max	H	161	150	74	-13.83	Pass
7326.63	35.04	5.15	-7.65	32.54	Average Max	V	205	298	54	-21.46	Pass
10399.96	38.25	6.02	-3.85	40.42	Average Max	V	223	33	54	-13.58	Pass
13853.92	40.44	7.19	-1.67	45.96	Average Max	H	161	150	54	-8.04	Pass

1GHz-40GHz – 802.11a – 5240MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7218.89	49.46	5.15	-7.72	46.89	Peak Max	H	210	294	74	-27.11	Pass
10480.45	52.57	6.07	-3.82	54.82	Peak Max	V	224	34	74	-19.18	Pass
13094.01	54.85	6.94	-1.82	59.97	Peak Max	V	168	154	74	-14.03	Pass
7218.89	34.47	5.15	-7.72	31.90	Average Max	H	210	294	54	-22.10	Pass
10480.45	38.52	6.07	-3.82	40.77	Average Max	V	224	34	54	-13.23	Pass
13094.01	39.98	6.94	-1.82	45.10	Average Max	V	168	154	54	-8.90	Pass

1GHz-40GHz – 802.11a – 5260MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7854.72	49.83	5.31	-7.16	47.98	Peak Max	H	207	292	74	-26.02	Pass
10520.08	53.01	6.09	-3.78	55.32	Peak Max	H	218	32	74	-18.68	Pass
13331.30	54.18	7.02	-1.73	59.47	Peak Max	H	162	150	74	-14.53	Pass
7854.72	34.98	5.31	-7.16	33.13	Average Max	H	207	292	54	-20.87	Pass
10520.08	38.42	6.09	-3.78	40.73	Average Max	H	218	32	54	-13.27	Pass
13331.30	39.95	7.02	-1.73	45.24	Average Max	H	162	150	54	-8.76	Pass

1GHz-40GHz – 802.11a – 5280MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7585.66	49.36	5.16	-7.47	47.05	Peak Max	V	206	301	74	-26.95	Pass
10559.78	52.88	6.10	-3.71	55.27	Peak Max	V	220	31	74	-18.73	Pass
13793.42	54.32	7.15	-1.70	59.77	Peak Max	V	169	148	74	-14.23	Pass
7585.66	34.69	5.16	-7.47	32.38	Average Max	V	206	301	54	-21.62	Pass
10559.78	38.51	6.10	-3.71	40.90	Average Max	V	220	31	54	-13.10	Pass
13793.42	40.13	7.15	-1.70	45.58	Average Max	V	169	148	54	-8.42	Pass

1GHz-40GHz – 802.11a – 5320MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7537.15	49.62	5.14	-7.50	47.26	Peak Max	V	209	294	74	-26.74	Pass
10640.12	53.21	6.14	-3.61	55.74	Peak Max	V	221	29	74	-18.26	Pass
13046.91	53.70	6.92	-1.68	58.94	Peak Max	H	166	147	74	-15.06	Pass
7537.15	34.71	5.14	-7.50	32.35	Average Max	V	209	294	54	-21.65	Pass
10640.12	38.81	6.14	-3.61	41.34	Average Max	V	221	29	54	-12.66	Pass
13046.91	39.14	6.92	-1.68	44.38	Average Max	H	166	147	54	-9.62	Pass

1GHz-40GHz – 802.11a – 5500MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7891.62	48.67	5.34	-7.13	46.88	Peak Max	V	206	301	74	-27.12	Pass
11000.23	52.27	6.13	-3.08	55.32	Peak Max	H	219	27	74	-18.68	Pass
13744.02	54.15	7.12	-1.60	59.67	Peak Max	V	170	154	74	-14.33	Pass
7891.62	34.55	5.34	-7.13	32.76	Average Max	V	206	301	54	-21.24	Pass
11000.23	37.91	6.13	-3.08	40.96	Average Max	H	219	27	54	-13.04	Pass
13744.02	39.97	7.12	-1.60	45.49	Average Max	V	170	154	54	-8.51	Pass

1GHz-40GHz – 802.11a – 5580MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7058.02	49.26	5.10	-7.79	46.57	Peak Max	H	206	301	74	-27.43	Pass
11159.15	52.91	6.07	-3.12	55.86	Peak Max	V	218	27	74	-18.14	Pass
13227.36	54.01	6.99	-1.90	59.10	Peak Max	V	166	146	74	-14.90	Pass
7058.02	35.15	5.10	-7.79	32.46	Average Max	H	206	301	54	-21.54	Pass
11159.15	38.67	6.07	-3.12	41.62	Average Max	V	218	27	54	-12.38	Pass
13227.36	39.75	6.99	-1.90	44.84	Average Max	V	166	146	54	-9.16	Pass

1GHz-40GHz – 802.11a – 5700MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7670.73	49.83	5.19	-7.31	47.71	Peak Max	H	208	301	74	-26.29	Pass
11400.93	52.73	6.05	-2.88	55.90	Peak Max	H	223	26	74	-18.10	Pass
13470.35	53.95	7.04	-1.60	59.39	Peak Max	V	161	146	74	-14.61	Pass
7670.73	35.22	5.19	-7.31	33.10	Average Max	H	208	301	54	-20.90	Pass
11400.93	38.24	6.05	-2.88	41.41	Average Max	H	223	26	54	-12.59	Pass
13470.35	39.88	7.04	-1.60	45.32	Average Max	V	161	146	54	-8.68	Pass

1GHz-40GHz – 802.11a – 5745MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7167.48	49.28	5.13	-7.74	46.67	Peak Max	V	211	294	74	-27.33	Pass
11490.63	53.03	6.07	-2.79	56.31	Peak Max	H	224	27	74	-17.69	Pass
13085.70	54.97	6.93	-1.79	60.11	Peak Max	V	162	154	74	-13.89	Pass
7167.48	34.84	5.13	-7.74	32.23	Average Max	V	211	294	54	-21.77	Pass
11490.63	38.05	6.07	-2.79	41.33	Average Max	H	224	27	54	-12.67	Pass
13085.70	40.29	6.93	-1.79	45.43	Average Max	V	162	154	54	-8.57	Pass

1GHz-40GHz - 802.11a– 5785MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7256.56	48.57	5.16	-7.71	46.02	Peak Max	H	206	299	74	-27.98	Pass
11569.57	52.37	6.13	-2.68	55.82	Peak Max	H	222	34	74	-18.18	Pass
13041.04	53.67	6.92	-1.66	58.93	Peak Max	V	170	150	74	-15.07	Pass
7256.56	34.4	5.16	-7.71	31.85	Average Max	H	206	299	54	-22.15	Pass
11569.57	38.27	6.13	-2.68	41.72	Average Max	H	222	34	54	-12.28	Pass
13041.04	38.88	6.92	-1.66	44.14	Average Max	V	170	150	54	-9.86	Pass

1GHz-40GHz - 802.11a - 5825MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7574.55	49	5.16	-7.48	46.68	Peak Max	V	204	295	74	-27.32	Pass
11650.35	53.37	6.2	-2.52	57.05	Peak Max	V	220	30	74	-16.95	Pass
13976.47	54.68	7.27	-1.57	60.38	Peak Max	H	167	146	74	-13.62	Pass
7574.55	34.42	5.16	-7.48	32.1	Average Max	V	204	295	54	-21.9	Pass
11650.35	38.44	6.2	-2.52	42.12	Average Max	V	220	30	54	-11.88	Pass
13976.47	39.82	7.27	-1.57	45.52	Average Max	H	167	146	54	-8.48	Pass

1GHz-40GHz – 802.11n-20M – 5180MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7111.76	49.25	5.12	-7.77	46.60	Peak Max	H	210	300	74	-27.40	Pass
10360.69	52.17	6.00	-3.87	54.30	Peak Max	H	222	28	74	-19.70	Pass
13300.68	54.72	7.01	-1.78	59.95	Peak Max	V	167	154	74	-14.05	Pass
7111.76	35.23	5.12	-7.77	32.58	Average Max	H	210	300	54	-21.42	Pass
10360.69	37.82	6.00	-3.87	39.95	Average Max	H	222	28	54	-14.05	Pass
13300.68	40.32	7.01	-1.78	45.55	Average Max	V	167	154	54	-8.45	Pass

1GHz-40GHz – 802.11n-20M – 5200MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7290.31	49.13	5.16	-7.68	46.61	Peak Max	H	208	295	74	-27.39	Pass
10399.35	52.60	6.02	-3.85	54.77	Peak Max	V	218	30	74	-19.23	Pass
13854.91	54.59	7.19	-1.67	60.11	Peak Max	H	163	152	74	-13.89	Pass
7290.31	35.01	5.16	-7.68	32.49	Average Max	H	208	295	54	-21.51	Pass
10399.35	37.82	6.02	-3.85	39.99	Average Max	V	218	30	54	-14.01	Pass
13854.91	40.09	7.19	-1.67	45.61	Average Max	H	163	152	54	-8.39	Pass

1GHz-40GHz – 802.11n-20M – 5240MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7425.55	49.98	5.14	-7.58	47.54	Peak Max	V	207	298	74	-26.46	Pass
10480.11	52.58	6.07	-3.82	54.83	Peak Max	H	215	26	74	-19.17	Pass
13929.46	55.69	7.24	-1.61	61.32	Peak Max	H	167	154	74	-12.68	Pass
7425.55	35.62	5.14	-7.58	33.18	Average Max	V	207	298	54	-20.82	Pass
10480.11	38.33	6.07	-3.82	40.58	Average Max	H	215	26	54	-13.42	Pass
13929.46	41.08	7.24	-1.61	46.71	Average Max	H	167	154	54	-7.29	Pass

1GHz-40GHz – 802.11n-20M – 5260MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7805.86	50.05	5.27	-7.20	48.12	Peak Max	V	208	296	74	-25.88	Pass
10520.00	53.02	6.09	-3.78	55.33	Peak Max	V	222	28	74	-18.67	Pass
13775.94	55.13	7.14	-1.67	60.60	Peak Max	H	170	146	74	-13.40	Pass
7805.86	35.83	5.27	-7.20	33.90	Average Max	V	208	296	54	-20.10	Pass
10520.00	38.39	6.09	-3.78	40.70	Average Max	V	222	28	54	-13.30	Pass
13775.94	41.04	7.14	-1.67	46.51	Average Max	H	170	146	54	-7.49	Pass

1GHz-40GHz – 802.11n-20M – 5280MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7496.98	49.36	5.13	-7.53	46.96	Peak Max	V	205	300	74	-27.04	Pass
10559.16	52.89	6.10	-3.71	55.28	Peak Max	H	221	30	74	-18.72	Pass
13018.74	54.86	6.91	-1.60	60.17	Peak Max	H	161	152	74	-13.83	Pass
7496.98	34.42	5.13	-7.53	32.02	Average Max	V	205	300	54	-21.98	Pass
10559.16	38.59	6.10	-3.71	40.98	Average Max	H	221	30	54	-13.02	Pass
13018.74	40.61	6.91	-1.60	45.92	Average Max	H	161	152	54	-8.08	Pass

1GHz-40GHz – 802.11n-20M – 5320MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7147.13	48.96	5.13	-7.75	46.34	Peak Max	V	209	301	74	-27.66	Pass
10640.00	53.20	6.14	-3.61	55.73	Peak Max	V	215	31	74	-18.27	Pass
13841.60	55.35	7.18	-1.69	60.84	Peak Max	V	163	152	74	-13.16	Pass
7147.13	34.91	5.13	-7.75	32.29	Average Max	V	209	301	54	-21.71	Pass
10640.00	38.94	6.14	-3.61	41.47	Average Max	V	215	31	54	-12.53	Pass
13841.60	40.73	7.18	-1.69	46.22	Average Max	V	163	152	54	-7.78	Pass

1GHz-40GHz – 802.11n-20M – 5500MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7710.39	50.00	5.21	-7.28	47.93	Peak Max	V	211	300	74	-26.07	Pass
11000.17	52.26	6.13	-3.08	55.31	Peak Max	V	215	31	74	-18.69	Pass
13900.62	54.61	7.22	-1.63	60.20	Peak Max	H	164	149	74	-13.80	Pass
7710.39	35.84	5.21	-7.28	33.77	Average Max	V	211	300	54	-20.23	Pass
11000.17	37.75	6.13	-3.08	40.80	Average Max	V	215	31	54	-13.20	Pass
13900.62	40.10	7.22	-1.63	45.69	Average Max	H	164	149	54	-8.31	Pass

1GHz-40GHz – 802.11n-20M – 5580MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7083.74	49.72	5.11	-7.78	47.05	Peak Max	V	208	300	74	-26.95	Pass
11159.50	52.88	6.07	-3.12	55.83	Peak Max	V	220	29	74	-18.17	Pass
13980.69	55.10	7.28	-1.57	60.81	Peak Max	H	164	149	74	-13.19	Pass
7083.74	35.36	5.11	-7.78	32.69	Average Max	V	208	300	54	-21.31	Pass
11159.50	38.12	6.07	-3.12	41.07	Average Max	V	220	29	54	-12.93	Pass
13980.69	40.25	7.28	-1.57	45.96	Average Max	H	164	149	54	-8.04	Pass

1GHz-40GHz – 802.11n-20M – 5700MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7130.16	49.81	5.12	-7.76	47.17	Peak Max	H	208	300	74	-26.83	Pass
11400.76	52.74	6.05	-2.88	55.91	Peak Max	V	222	25	74	-18.09	Pass
13166.79	54.56	6.97	-1.88	59.65	Peak Max	V	163	150	74	-14.35	Pass
7130.16	35.69	5.12	-7.76	33.05	Average Max	H	208	300	54	-20.95	Pass
11400.76	38.05	6.05	-2.88	41.22	Average Max	V	222	25	54	-12.78	Pass
13166.79	40.34	6.97	-1.88	45.43	Average Max	V	163	150	54	-8.57	Pass

1GHz-40GHz – 802.11n-20M – 5745MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7675.58	49.9	5.19	-7.3	47.79	Peak Max	V	205	296	74	-26.21	Pass
11490.51	53.04	6.07	-2.79	56.32	Peak Max	H	219	34	74	-17.68	Pass
13960.43	55.52	7.26	-1.58	61.2	Peak Max	H	165	148	74	-12.8	Pass
7675.58	35.35	5.19	-7.3	33.24	Average Max	V	205	296	54	-20.76	Pass
11490.51	39.04	6.07	-2.79	42.32	Average Max	H	219	34	54	-11.68	Pass
13960.43	41.42	7.26	-1.58	47.1	Average Max	H	165	148	54	-6.9	Pass

1GHz-40GHz - 802.11n-20M– 5785MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7886.45	49.46	5.33	-7.13	47.66	Peak Max	V	207	294	74	-26.34	Pass
11569.67	52.37	6.13	-2.68	55.82	Peak Max	V	215	26	74	-18.18	Pass
13580.40	54.38	7.07	-1.53	59.92	Peak Max	H	169	153	74	-14.08	Pass
7886.45	34.95	5.33	-7.13	33.15	Average Max	V	207	294	54	-20.85	Pass
11569.67	38.01	6.13	-2.68	41.46	Average Max	V	215	26	54	-12.54	Pass
13580.40	40.17	7.07	-1.53	45.71	Average Max	H	169	153	54	-8.29	Pass

1GHz-40GHz - 802.11n-20M - 5825MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7460.43	50.37	5.13	-7.56	47.94	Peak Max	V	209	295	74	-26.06	Pass
11650.98	53.38	6.2	-2.52	57.06	Peak Max	V	218	28	74	-16.94	Pass
13096.86	54.66	6.94	-1.82	59.78	Peak Max	H	164	151	74	-14.22	Pass
7460.43	36.11	5.13	-7.56	33.68	Average Max	V	209	295	54	-20.32	Pass
11650.98	38.95	6.2	-2.52	42.63	Average Max	V	218	28	54	-11.37	Pass
13096.86	40.07	6.94	-1.82	45.19	Average Max	H	164	151	54	-8.81	Pass

1GHz-40GHz – 802.11n-40M – 5190MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7781.22	50.71	5.25	-7.22	48.74	Peak Max	H	212	300	74	-25.26	Pass
10379.47	51.77	6.01	-3.86	53.92	Peak Max	H	217	25	74	-20.08	Pass
13198.05	54.57	6.98	-1.91	59.64	Peak Max	H	163	147	74	-14.36	Pass
7781.22	36.02	5.25	-7.22	34.05	Average Max	H	212	300	54	-19.95	Pass
10379.47	36.95	6.01	-3.86	39.10	Average Max	H	217	25	54	-14.90	Pass
13198.05	39.68	6.98	-1.91	44.75	Average Max	H	163	147	54	-9.25	Pass

1GHz-40GHz – 802.11n-40M – 5230MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7027.42	48.91	5.09	-7.80	46.20	Peak Max	H	204	299	74	-27.80	Pass
10460.93	52.76	6.06	-3.83	54.99	Peak Max	V	219	27	74	-19.01	Pass
13212.34	54.80	6.98	-1.91	59.87	Peak Max	V	164	148	74	-14.13	Pass
7027.42	34.07	5.09	-7.80	31.36	Average Max	H	204	299	54	-22.64	Pass
10460.93	38.31	6.06	-3.83	40.54	Average Max	V	219	27	54	-13.46	Pass
13212.34	40.11	6.98	-1.91	45.18	Average Max	V	164	148	54	-8.82	Pass

1GHz-40GHz – 802.11n-40M – 5190MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7781.22	50.71	5.25	-7.22	48.74	Peak Max	H	204	298	74	-25.26	Pass
10379.47	51.77	6.01	-3.86	53.92	Peak Max	V	218	31	74	-20.08	Pass
13198.05	54.57	6.98	-1.91	59.64	Peak Max	H	170	153	74	-14.36	Pass
7781.22	36.51	5.25	-7.22	34.54	Average Max	H	204	298	54	-19.46	Pass
10379.47	37.19	6.01	-3.86	39.34	Average Max	V	218	31	54	-14.66	Pass
13198.05	40.50	6.98	-1.91	45.57	Average Max	H	170	153	54	-8.43	Pass

1GHz-40GHz – 802.11n-40M – 5310MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7615.92	49.70	5.17	-7.42	47.45	Peak Max	V	210	296	74	-26.55	Pass
10620.47	52.58	6.13	-3.62	55.09	Peak Max	H	216	32	74	-18.91	Pass
13133.17	54.09	6.95	-1.86	59.18	Peak Max	V	168	152	74	-14.82	Pass
7615.92	35.18	5.17	-7.42	32.93	Average Max	V	210	296	54	-21.07	Pass
10620.47	38.17	6.13	-3.62	40.68	Average Max	H	216	32	54	-13.32	Pass
13133.17	39.87	6.95	-1.86	44.96	Average Max	V	168	152	54	-9.04	Pass

1GHz-40GHz – 802.11n-40M – 5510MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7307.76	49.40	5.15	-7.67	46.88	Peak Max	V	212	296	74	-27.12	Pass
11019.23	53.21	6.12	-3.08	56.25	Peak Max	V	223	33	74	-17.75	Pass
13380.36	54.31	7.03	-1.66	59.68	Peak Max	H	169	148	74	-14.32	Pass
7307.76	35.27	5.15	-7.67	32.75	Average Max	V	212	296	54	-21.25	Pass
11019.23	38.98	6.12	-3.08	42.02	Average Max	V	223	33	54	-11.98	Pass
13380.36	39.50	7.03	-1.66	44.87	Average Max	H	169	148	54	-9.13	Pass

1GHz-40GHz – 802.11n-40M – 5550MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7384.68	49.19	5.14	-7.61	46.72	Peak Max	V	213	292	74	-27.28	Pass
11100.26	52.62	6.09	-3.10	55.61	Peak Max	V	222	28	74	-18.39	Pass
13821.10	54.74	7.17	-1.70	60.21	Peak Max	V	167	149	74	-13.79	Pass
7384.68	34.60	5.14	-7.61	32.13	Average Max	V	213	292	54	-21.87	Pass
11100.26	38.58	6.09	-3.10	41.57	Average Max	V	222	28	54	-12.43	Pass
13821.10	39.97	7.17	-1.70	45.44	Average Max	V	167	149	54	-8.56	Pass

1GHz-40GHz – 802.11n-40M – 5670MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7540.15	50.03	5.14	-7.50	47.67	Peak Max	V	213	292	74	-26.33	Pass
11340.29	52.54	6.04	-3.01	55.57	Peak Max	V	224	34	74	-18.43	Pass
13257.42	55.01	7.00	-1.88	60.13	Peak Max	V	164	151	74	-13.87	Pass
7540.15	35.83	5.14	-7.50	33.47	Average Max	V	213	292	54	-20.53	Pass
11340.29	37.57	6.04	-3.01	40.60	Average Max	V	224	34	54	-13.40	Pass
13257.42	40.73	7.00	-1.88	45.85	Average Max	V	164	151	54	-8.15	Pass

1GHz-40GHz – 802.11n-40M – 5755MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7801.99	50.16	5.26	-7.2	48.22	Peak Max	H	209	293	74	-25.78	Pass
11509.38	53.24	6.08	-2.77	56.55	Peak Max	H	220	30	74	-17.45	Pass
13057.31	55.22	6.92	-1.71	60.43	Peak Max	V	163	147	74	-13.57	Pass
7801.99	35.9	5.26	-7.2	33.96	Average Max	H	209	293	54	-20.04	Pass
11509.38	38.68	6.08	-2.77	41.99	Average Max	H	220	30	54	-12.01	Pass
13057.31	41.01	6.92	-1.71	46.22	Average Max	V	163	147	54	-7.78	Pass

1GHz-40GHz - 802.11n-40M- 5795MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7481.92	49.38	5.13	-7.54	46.97	Peak Max	H	211	301	74	-27.03	Pass
11590.69	54.18	6.15	-2.65	57.68	Peak Max	H	217	28	74	-16.32	Pass
13842.60	55.22	7.18	-1.68	60.72	Peak Max	V	168	149	74	-13.28	Pass
7481.92	35.01	5.13	-7.54	32.6	Average Max	H	211	301	54	-21.4	Pass
11590.69	39.75	6.15	-2.65	43.25	Average Max	H	217	28	54	-10.75	Pass
13842.60	40.57	7.18	-1.68	46.07	Average Max	V	168	149	54	-7.93	Pass

1GHz-40GHz - 802.11ac-80M - 5210MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7281.74	49.73	5.16	-7.69	47.20	Peak Max	H	206	297	74	-26.80	Pass
10419.29	52.03	6.03	-3.84	54.22	Peak Max	V	215	30	74	-19.78	Pass
13759.75	54.87	7.13	-1.63	60.37	Peak Max	V	167	145	74	-13.63	Pass
7281.74	35.09	5.16	-7.69	32.56	Average Max	H	206	297	54	-21.44	Pass
10419.29	37.37	6.03	-3.84	39.56	Average Max	V	215	30	54	-14.44	Pass
13759.75	40.76	7.13	-1.63	46.26	Average Max	V	167	145	54	-7.74	Pass

1GHz-40GHz - 802.11ac-80M - 5290MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7440.10	49.11	5.14	-7.57	46.68	Peak Max	H	207	293	74	-27.32	Pass
10579.76	52.31	6.11	-3.67	54.75	Peak Max	H	216	33	74	-19.25	Pass
13954.41	56.51	7.26	-1.59	62.18	Peak Max	H	165	152	74	-11.82	Pass
7440.10	34.33	5.14	-7.57	31.90	Average Max	H	207	293	54	-22.10	Pass
10579.76	37.57	6.11	-3.67	40.01	Average Max	H	216	33	54	-13.99	Pass
13954.41	42.09	7.26	-1.59	47.76	Average Max	H	165	152	54	-6.24	Pass

1GHz-40GHz - 802.11ac-80M - 5530MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7901.13	49.54	5.35	-7.12	47.77	Peak Max	H	208	300	74	-26.23	Pass
11059.42	53.37	6.11	-3.09	56.39	Peak Max	V	223	34	74	-17.61	Pass
13437.64	54.92	7.04	-1.62	60.34	Peak Max	H	169	146	74	-13.66	Pass
7901.13	34.96	5.35	-7.12	33.19	Average Max	H	208	300	54	-20.81	Pass
11059.42	39.04	6.11	-3.09	42.06	Average Max	V	223	34	54	-11.94	Pass
13437.64	40.80	7.04	-1.62	46.22	Average Max	H	169	146	54	-7.78	Pass

1GHz-40GHz – 802.11ac-80M – 5610MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7436.43	49.41	5.14	-7.58	46.97	Peak Max	H	210	296	74	-27.03	Pass
11219.60	53.03	6.04	-3.13	55.94	Peak Max	V	215	31	74	-18.06	Pass
13733.11	55.15	7.12	-1.59	60.68	Peak Max	V	165	150	74	-13.32	Pass
7436.43	34.52	5.14	-7.58	32.08	Average Max	H	210	296	54	-21.92	Pass
11219.60	38.98	6.04	-3.13	41.89	Average Max	V	215	31	54	-12.11	Pass
13733.11	41.11	7.12	-1.59	46.64	Average Max	V	165	150	54	-7.36	Pass

1GHz-40GHz - 802.11ac-80M - 5775MHz

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7019.29	50.05	5.09	-7.8	47.34	Peak Max	V	207	293	74	-26.66	Pass
11549.16	52.87	6.11	-2.71	56.27	Peak Max	H	215	29	74	-17.73	Pass
13431.84	55.44	7.04	-1.62	60.86	Peak Max	V	164	147	74	-13.14	Pass
7019.29	35.28	5.09	-7.8	32.57	Average Max	V	207	293	54	-21.43	Pass
11549.16	38.58	6.11	-2.71	41.98	Average Max	H	215	29	54	-12.02	Pass
13431.84	41.38	7.04	-1.62	46.8	Average Max	V	164	147	54	-7.2	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
Keysight EXA 44GHz Spectrum Analyzer	N9030B(PXA)	MY57140374	08/20/2018	1 Year	08/20/2019	☒
Bi-Log antenna (30MHz~6GHz)	JB6	A111717	08/12/2018	1 Year	08/12/2019	☒
Horn Antenna (1GHz~26GHz)	3115	100059	01/26/2019	1 Year	01/26/2020	☒
Horn Antenna (26GHz~40GHz)	AH-840	101013	08/28/2018	1 Year	08/28/2019	☒
Pre-Amplifier(0.3MHz-6.5GHz)	LPA-6-30	11170602	02/06/2019	1 Year	02/06/2020	☒
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	08/16/2018	1 Year	08/16/2019	☒
Pre-Amp (10MHz~50GHz)	RAMP00M50GA	17032300047	02/10/2019	1 Year	02/10/2020	☒

Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1 , A2 , A3 , A4 , B1 , B2 , B3 , B4 , C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		Radio Equipment: EN45011: EN ISO/IEC 17065
		Electromagnetic Compatibility: EN45011 – EN ISO/IEC 17065
Singapore iDA CB(Certification Body)		Phase I , Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
Korea CAB Accreditation		EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68 Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771 Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2