



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 1 of 420
Date: Dec. 28, 2017

Product Name: Almond 3S
Model No.: A3S
Securifi Ltd.
Applicant: 11F, No.92, Sec. 5, Nanjing E. Rd.,
Songshan Dist., Taipei 105, Taiwan
Date of Receipt: Oct. 30, 2017
Finished date of Test: Dec. 14, 2017
Applicable Standards: 47 CFR Part 15, Subpart E, 15.407
ANSI C63.10: 2013
FCC publication KDB 789033 D02 General UNII Test
Procedures New Rules v02r01 Dec 14, 2017
KDB 662911 D01 Multiple Transmitter Output v02r01 Oct 31, 2013

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By :

Richard Lin

(Richard Lin)

Date:

12/28/2017

Approved By :

JH

(Johnson Ho, Director)

Date:

12/28/2017



	Spectrum Research & Testing Lab., Inc. No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	TEST REPORT	Reference No.: A17103001 Report No.: FCCA17103001-03 FCC ID : AHL-ALMOND3S Page: 2 of 420 Date: Dec. 28, 2017
---	--	----------------------	---

Revisions History

Report No.	Issue Date	Revisions
FCCA17103001-03	Dec. 28, 2017	Initial issue



Table of Contents

1. DOCUMENT POLICY AND TEST STATEMENT.....	5
1.1 DOCUMENT POLICY	5
1.2 TEST STATEMENT	5
1.3 EUT MODIFICATION	5
2. DESCRIPTION OF EUT AND TEST MODE	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF EUT INTERNAL DEVICE	7
2.3 DESCRIPTION OF TEST MODE	7
2.4 EUT OPERATING CONDITION	9
2.5 DESCRIPTION OF SUPPORT UNIT	10
2.6 CHANNEL AND FREQUENCY TABLE	10
3. DESCRIPTION OF APPLIED STANDARDS.....	12
3.1 SUMMARY OF TEST RESULTS.....	12
4. TECHNICAL CHARACTERISTICS TEST	13
4.1 CONDUCTED EMISSION TEST	13
4.1.1 LIMIT	13
4.1.2 TEST EQUIPMENT	13
4.1.3 TEST SETUP.....	14
4.1.4 TEST PROCEDURE.....	14
4.1.5 TEST RESULT.....	15
4.2 RADIATED EMISSION TEST	115
4.2.1 LIMIT	115
4.2.2 TEST EQUIPMENT	116
4.2.3 TEST SET-UP.....	117
4.2.4 TEST PROCEDURE.....	118
4.2.5 TEST RESULT.....	119
4.3 BANDWIDTH TEST	269
4.3.1 LIMIT	269
4.3.2 TEST EQUIPMENT	269
4.3.3 TEST SET-UP.....	269
4.3.4 TEST PROCEDURE.....	269
4.3.5 EUT OPERATING CONDITION	269
4.3.6 TEST RESULT.....	270
4.4 PEAK CONDUCTED OUTPUT POWER TEST.....	303
4.4.1 LIMIT	303
4.4.2 TEST EQUIPMENT	303
4.4.3 TEST SET-UP.....	304
4.4.4 TEST PROCEDURE.....	304
4.4.5 EUT OPERATING CONDITION.....	304
4.4.6 TEST RESULT.....	305
4.5 BAND EDGE TEST	341
4.5.1 LIMIT	341
4.5.2 TEST EQUIPMENT	341



**Spectrum Research &
Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong
Rd., Ling 8, Shan-Tong Li,
Chung-Li Dist., Taoyuan City
320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 4 of 420
Date: Dec. 28, 2017

4.5.3	TEST SETUP.....	342
4.5.4	TEST PROCEDURE.....	342
4.5.5	EUT OPERATING CONDITION.....	343
4.5.6	TEST RESULT.....	344
4.6	POWER SPECTRAL DENSITY TEST	380
4.6.1	LIMIT	380
4.6.2	TEST EQUIPMENT	381
4.6.3	TEST SET-UP.....	381
4.6.4	TEST PROCEDURE.....	382
4.6.5	EUT OPERATING CONDITION.....	382
4.6.6	TEST RESULT.....	383
5.	ANTENNA APPLICATION.....	419
5.1	ANTENNA REQUIREMENT	419
5.2	RESULT	419
6.	TERMS OF ABBREVIATION	420



**Spectrum Research &
Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong
Rd., Ling 8, Shan-Tong Li,
Chung-Li Dist., Taoyuan City
320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 5 of 420
Date: Dec. 28, 2017

1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- FCC Registered Test Site Number : TW1016

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- DC power source from Battery or external adapter.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 6 of 420
Date: Dec. 28, 2017

2. DESCRIPTION OF EUT AND TEST MODE**2.1 GENERAL DESCRIPTION OF EUT**

PRODUCT	Almond 3S
MODEL NO.	A3S
POWER SUPPLY	DC power source from Battery or external adapter Brand Name: Shenzhen Gongjin Electronics Co. Ltd Model No.:S36B52-120A250-04 Input: 100~240V 50~60Hz Max 1.0A Output: 12V 2.5A
CABLE	NA
FREQUENCY BAND	5.1G band : 5.15 GHz ~ 5.25 GHz 5.8G band : 5.725 ~ 5.85 GHz
CARRIER FREQUENCY	5.18 GHz ~ 5.24 GHz, 5.745 GHz ~ 5.825 GHz
NUMBER OF CHANNEL	5.1G band : 802.11a/n/ac - HT20 : 4 ch 802.11n/ac - HT40 : 2 ch 802.11ac - HT80 : 1 ch 5.8G band : 802.11a/n/ac - HT20 : 5 ch 802.11n/ac - HT40 : 2 ch 802.11ac - HT80 : 1 ch
RATED RF OUTPUT POWER	5.1G band : 802.11a : 9.29 dBm (8.49 mW) 802.11n - HT20 : 11.92 dBm (15.56 mW) 802.11n - HT40 : 11.51 dBm (14.17 mW) 802.11ac - HT20 : 11.91 dBm (15.57 mW) 802.11ac - HT40 : 10.70 dBm (11.74 mW) 802.11ac - HT80 : 11.19 dBm (13.16 mW) 5.8G band : 802.11a : 9.28 dBm (8.47 mW) 802.11n - HT20 : 11.48 dBm (14.06 mW) 802.11n - HT40 : 11.03 dBm (12.66 mW) 802.11ac - HT20 : 11.33 dBm (13.58 mW) 802.11ac - HT40 : 11.09 dBm (12.84 mW) 802.11ac - HT80 : 11.16 dBm (13.08 mW)



MODULATION TYPE	IEEE802.11b DSSS(BPSK/QPSK/CCK) IEEE802.11g OFDM(BPSK/16-QAM/64-QAM) IEEE802.11n MIMO-OFDM(BPSK/QPSK/16-QAM/64-QAM) IEEE802.11a OFDM(BPSK/ QPSK/16-QAM/64-QAM) IEEE802.11ac MIMO-OFDM(BPSK/QPSK/16-QAM/64-QAM/256-QAM)
MODE OF OPERATION	Duplex
BIT RATE OF TRANSMISSION	5.8G band & 5.1G band 802.11a : 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n - HT20 : MCS0 ~ MCS7 (Max. 72.2 Mbps) 802.11ac - HT20 : MCS0 ~ MCS8 (Max. 86.7 Mbps) 802.11n - HT40 : MCS0 ~ MCS9 (Max. 150 Mbps) 802.11ac - HT40 : MCS0 ~ MCS9 (Max. 200 Mbps) 802.11ac - HT80 : MCS0 ~ MCS9 (Max. 433.3 Mbps)
ANTENNA TYPE	Printed Antenna
ANTENNA GAIN	2.0 dBi (ANT#1), 2.0 dBi (ANT#2)

NOTE:

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID / DOC	REMARK
NA	NA	NA	NA	NA

2.3 DESCRIPTION OF TEST MODE

There are test modes for each test configuration as below:

5.1G band :

Mode		Channel	Frequency (MHz)
01	802.11a	CH36	5180
02		CH40	5200
03		CH48	5240
04	802.11n - HT20 (SISO)	CH36	5180
05		CH40	5200
06		CH48	5240
07	802.11n - HT20 (MIMO)	CH36	5180

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 8 of 420
Date: Dec. 28, 2017

08		CH40	5200
09		CH48	5240
10	802.11n - HT40 (SISO)	CH38	5190
11		CH46	5230
12	802.11n - HT40 (MIMO)	CH38	5190
13		CH46	5230
14	802.11ac - HT20 (SISO)	CH36	5180
15		CH40	5200
16		CH48	5240
17	802.11ac - HT20 (MIMO)	CH36	5180
18		CH40	5200
19		CH48	5240
20	802.11ac - HT40 (SISO)	CH38	5190
21		CH46	5230
22	802.11ac - HT40 (MIMO)	CH38	5190
23		CH46	5230
24	802.11ac - HT80 (SISO)	CH42	5210
25	802.11ac - HT80 (MIMO)	CH42	5210

5.8G band :

Mode		Channel	Frequency (MHz)
26	802.11a	CH149	5745
27		CH157	5785
28		CH165	5825
29	802.11n - HT20 (SISO)	CH149	5745
30		CH157	5785
31		CH165	5825
32	802.11n - HT20 (MIMO)	CH149	5745
33		CH157	5785
34		CH165	5825
35	802.11n - HT40 (SISO)	CH151	5755
36		CH159	5795
37	802.11n - HT40 (MIMO)	CH151	5755
38		CH159	5795
39	802.11ac - HT20 (SISO)	CH149	5745

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 9 of 420
Date: Dec. 28, 2017

40		CH157	5785
41		CH165	5825
42	802.11ac - HT20 (MIMO)	CH149	5745
43		CH157	5785
44		CH165	5825
45	802.11ac - HT40 (SISO)	CH151	5755
46		CH159	5795
47	802.11ac - HT40 (MIMO)	CH151	5755
48		CH159	5795
49	802.11ac - HT80 (SISO)	CH155	5775
50	802.11ac - HT80 (MIMO)	CH155	5775

NOTE:

1. Below 1 GHz were pre-tested in chamber and chosen the worst case for conducted and radiated emission test.
2. Above 1 GHz were tested individually.
3. The axis X,Y and Z we evaluate in chamber, the X axis is worst case.

2.4 EUT OPERATING CONDITION

1. For use customer provided continuous transmission EUT.
2. Turn on the power of all equipment and EUT.
3. Open continuous transmission Program "MT76xxE_AP.exe"



2.5 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	PC	ASUS	M32AA1	R31018	1.5m unshielded power cable.
2	LCD Monitor	DELL	U2412Mb	R43002	1.8m unshielded power cable. 1.5m shielded data cable.
3	Keyboard	ASUS	AW211	D41108	1.8m unshielded data cable.
4	Mouse	ASUS	MOBTUO	R41108	1.5m unshielded data cable.
5	Printer	HP	C8991A	R33001	1.5m unshielded power cable. 1.5m shielded data cable.
6	USB 2.0 HDD	TERASYS	F12-U	4912A002	1.5m unshielded power cable.
7	USB Storage	Kingston	N/A	DoC	8GB
8	USB cable	N/A	N/A	N/A	1.2m shielded data cable.

NOTE: For the actual test configuration, please refer to the photos of testing.

2.6 CHANNEL AND FREQUENCY TABLE

5.1G_802.11a/n/ac - HT20			
Channel	Frequency	Channel	Frequency
CH36	5180 MHz	CH44	5220 MHz
CH40	5200 MHz	CH48	5240 MHz

5.1G_802.11n/ac - HT40			
Channel	Frequency	Channel	Frequency
CH38	5190 MHz	CH46	5230 MHz

5.1G_802.11ac - HT80			
Channel	Frequency	Channel	Frequency
CH42	5210 MHz	--	--

5.8G_802.11a/n/ac - HT20			
Channel	Frequency	Channel	Frequency
CH149	5745 MHz	CH161	5805 MHz
CH153	5765 MHz	CH165	5825 MHz
CH157	5785 MHz	--	--

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 11 of 420
Date: Dec. 28, 2017

5.8G_802.11n/ac - HT40

Channel	Frequency	Channel	Frequency
CH151	5755 MHz	CH159	5795 MHz

5.8G_802.11ac - HT80

Channel	Frequency	Channel	Frequency
CH155	5775 MHz	--	--

 Spectrum Research & Testing Lab., Inc. No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	TEST REPORT	Reference No.: A17103001 Report No.: FCCA17103001-03 FCC ID : AHL-ALMOND3S Page: 12 of 420 Date: Dec. 28, 2017
--	----------------------	--

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart E, 15.407

ANSI C63.10: 2013

FCC publication KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Dec 14, 2017

KDB 662911 D01 Multiple Transmitter Output v02r01 Oct 31, 2013

All tests have been performed and recorded as the above standards.

3.1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT RESULTS	RESULTS
15.203 15.407(a)(3)	Antenna requirement	PASS
15.207	AC Power Line Conducted Emission	PASS
15.407 (e)	6 dB Bandwidth	PASS
15.407(a)(1)(iii) 15.407(a)(3)	Maximum Peak Conducted Output Power	PASS
15.407(b)(1) 15.407(b)(4)	Band Edge Measurement:	PASS
15.209	Transmitter Radiated Emissions Limit: Table 15.209	PASS
15.407(a)(1)(iii) 15.407(a)(3)	Power Density:	PASS

 Spectrum Research & Testing Lab., Inc. No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	TEST REPORT	Reference No.: A17103001 Report No.: FCCA17103001-03 FCC ID : AHL-ALMOND3S Page: 13 of 420 Date: Dec. 28, 2017
--	----------------------	--

4. TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

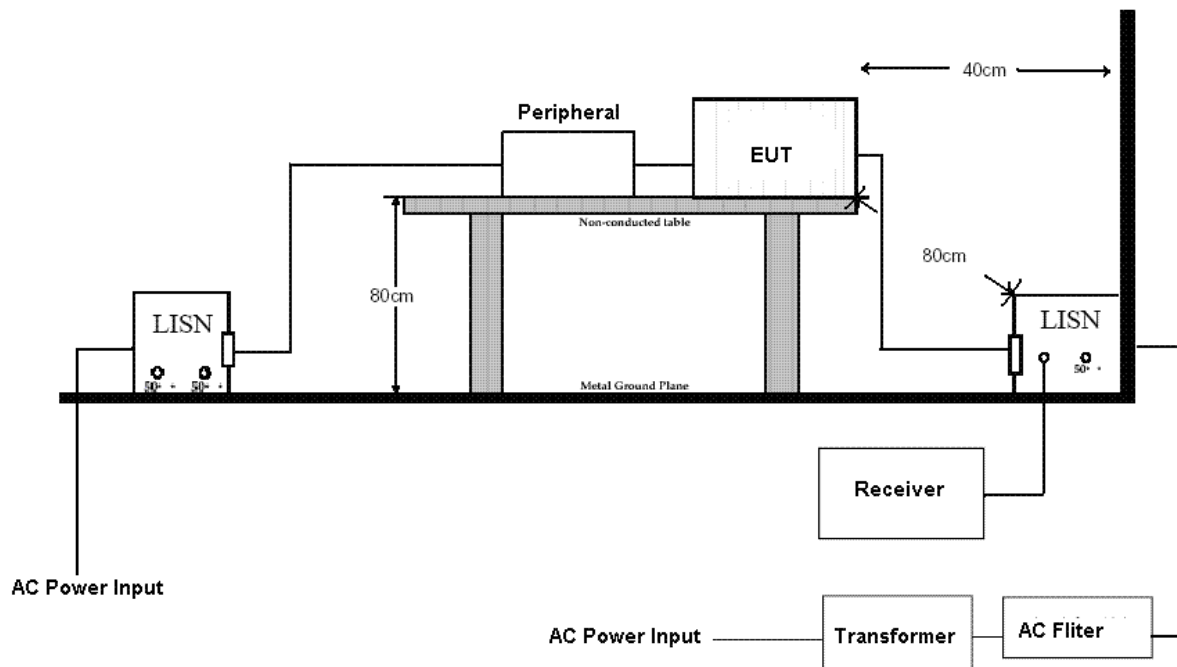
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	JAN. 02, 2018 ETC
EMI TEST RECEIVER	9 kHz ~ 30 MHz	ROHDE & SCHWARZ	ESHS30 / 826003/008	JAN. 09, 2018 ETC
LISN	50 μ H, 50 ohm	SOLAR	9252-50-R-24-BNC/ 951315	OCT. 30, 2018 ETC
LISN	50 μ H, 50 ohm	SCHWARZBECK	NSLK 8127/ 8127-808	DEC. 11, 2018 ETC
50 Ω BNC TYPE TERMINATOR	50 ohm	N/A	11593A/ L1TEQU005	NOV. 08, 2018 ETC
50 Ω BNC TYPE TERMINATOR	50 ohm	N/A	B00-CD-357/ L1TEQU009	MAY 17, 2018 ETC
COAXIAL CABLE	5 m	HUBER+SUHNER	RG214/U / #5M (L1TCAB013)	MAY 08, 2018 ETC
FILTER	2 LINE, 30 A	FIL.COIL	FC-943 / 771	NCR
GROUND PLANE	2 m (H) x 3 m (W)	SRT	N/A	NCR
GROUND PLANE	2.5 m (H) x 3 m (W)	SRT	N/A	NCR
PULSE LIMITER	9 kHz ~ 30 MHz Insertion Loss= 10dB $\pm$ 0.3dB	ROHDE & SCHWARZ	ESH3Z2/ L1TTES009	FEB. 23, 2018 ETC
THERMO-HYGR O	15 - 40 $^{\circ}$ C, 0- 100% RH	TOP	20-A / 6644	SEP. 17, 2018 ETC

NOTE:

The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



4.1.3 TEST SETUP



NOTE :

1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 μ H as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

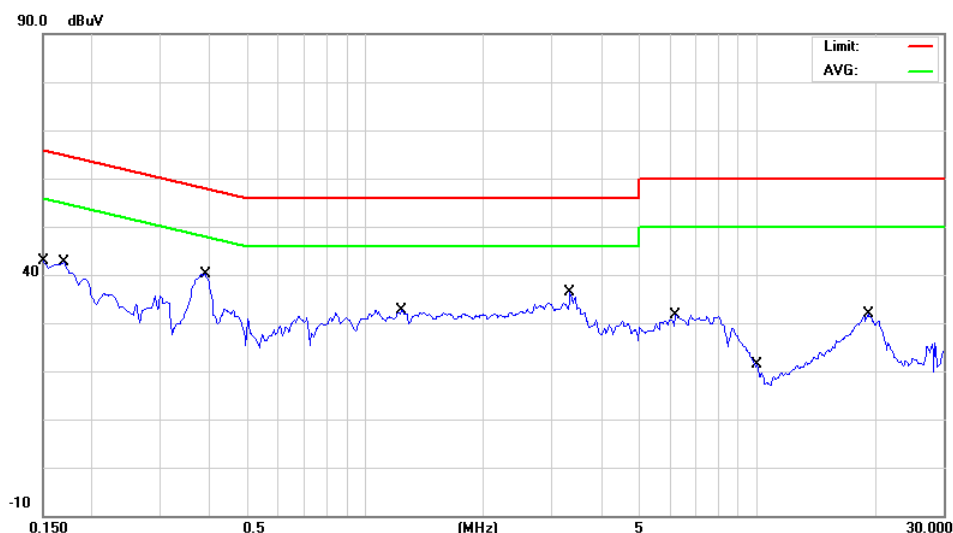
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 15 of 420
Date: Dec. 28, 2017

4.1.5 TEST RESULT

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.1G
			802.11a_CH36
Receiver Detector:	Q.P. and AV.	Tested Date:	Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	41.78	-0.12	41.66	66.00	-24.34	QP	
	2	0.1500	28.04	-0.12	27.92	56.00	-28.08	AVG	
	3	0.1700	39.44	-0.12	39.32	64.96	-25.64	QP	
	4	0.1700	27.44	-0.12	27.32	54.96	-27.64	AVG	
	5	0.3900	39.06	-0.15	38.91	58.06	-19.15	QP	
*	6	0.3900	30.83	-0.15	30.68	48.06	-17.38	AVG	
	7	1.2400	29.64	-0.06	29.58	56.00	-26.42	QP	
	8	1.2400	20.52	-0.06	20.46	46.00	-25.54	AVG	
	9	3.3300	31.70	0.07	31.77	56.00	-24.23	QP	
	10	3.3300	23.07	0.07	23.14	46.00	-22.86	AVG	
	11	6.2050	26.60	0.14	26.74	60.00	-33.26	QP	
	12	6.2050	18.50	0.14	18.64	50.00	-31.36	AVG	
	13	10.0000	17.18	0.14	17.32	60.00	-42.68	QP	
	14	10.0000	11.86	0.14	12.00	50.00	-38.00	AVG	
	15	19.2450	26.78	0.50	27.28	60.00	-32.72	QP	
	16	19.2450	21.23	0.50	21.73	50.00	-28.27	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

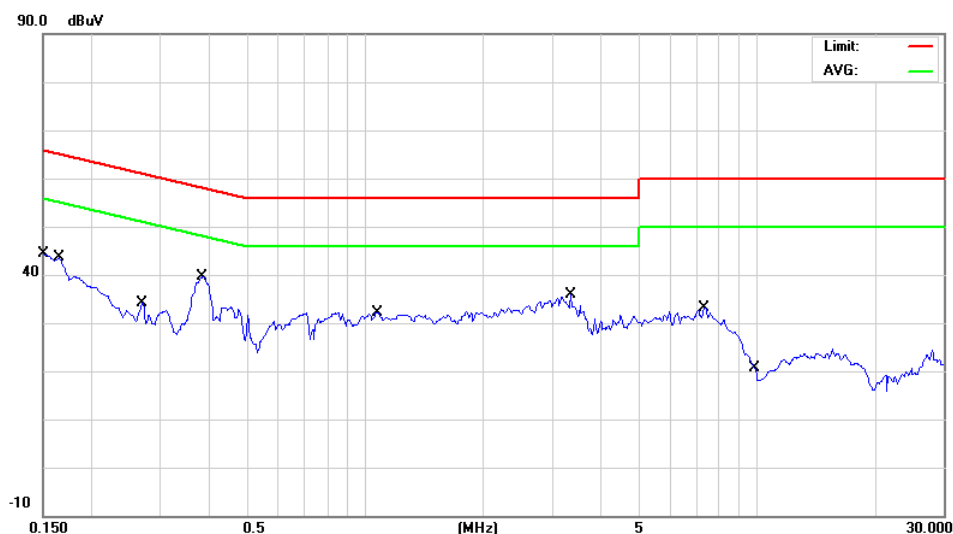
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 16 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.1G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH36
			Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.06	0.07	42.13	66.00	-23.87	QP	
	2	0.1500	28.13	0.07	28.20	56.00	-27.80	AVG	
	3	0.1650	40.42	0.05	40.47	65.21	-24.74	QP	
	4	0.1650	29.24	0.05	29.29	55.21	-25.92	AVG	
	5	0.2700	28.48	0.04	28.52	61.12	-32.60	QP	
	6	0.2700	18.89	0.04	18.93	51.12	-32.19	AVG	
	7	0.3850	38.80	0.11	38.91	58.17	-19.26	QP	
*	8	0.3850	30.19	0.11	30.30	48.17	-17.87	AVG	
	9	1.0750	29.30	0.05	29.35	56.00	-26.65	QP	
	10	1.0750	18.43	0.05	18.48	46.00	-27.52	AVG	
	11	3.3500	31.80	0.12	31.92	56.00	-24.08	QP	
	12	3.3500	23.38	0.12	23.50	46.00	-22.50	AVG	
	13	7.3300	27.78	0.22	28.00	60.00	-32.00	QP	
	14	7.3300	21.03	0.22	21.25	50.00	-28.75	AVG	
	15	10.0000	14.58	0.32	14.90	60.00	-45.10	QP	
	16	10.0000	9.04	0.32	9.36	50.00	-40.64	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

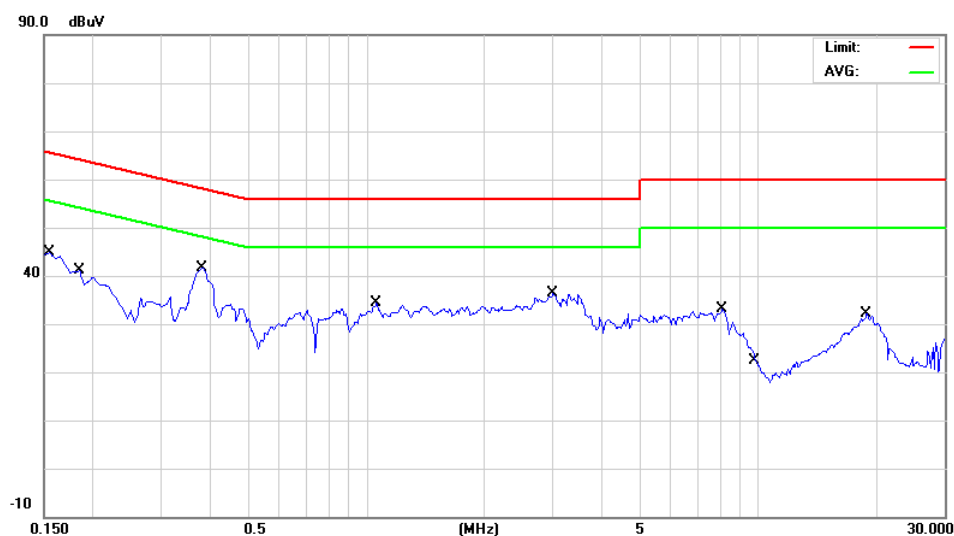
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 17 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.1G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH40
			Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.16	-0.12	42.04	65.73	-23.69	QP	
	2	0.1550	28.52	-0.12	28.40	55.73	-27.33	AVG	
	3	0.1850	37.96	-0.11	37.85	64.26	-26.41	QP	
	4	0.1850	25.70	-0.11	25.59	54.26	-28.67	AVG	
	5	0.3800	40.66	-0.15	40.51	58.28	-17.77	QP	
*	6	0.3800	32.24	-0.15	32.09	48.28	-16.19	AVG	
	7	1.0650	31.10	-0.05	31.05	56.00	-24.95	QP	
	8	1.0650	20.52	-0.05	20.47	46.00	-25.53	AVG	
	9	3.0000	31.28	0.04	31.32	56.00	-24.68	QP	
	10	3.0000	23.15	0.04	23.19	46.00	-22.81	AVG	
	11	8.1350	27.64	0.14	27.78	60.00	-32.22	QP	
	12	8.1350	21.47	0.14	21.61	50.00	-28.39	AVG	
	13	10.0000	18.08	0.14	18.22	60.00	-41.78	QP	
	14	10.0000	12.68	0.14	12.82	50.00	-37.18	AVG	
	15	18.9850	26.98	0.48	27.46	60.00	-32.54	QP	
	16	18.9850	21.37	0.48	21.85	50.00	-28.15	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

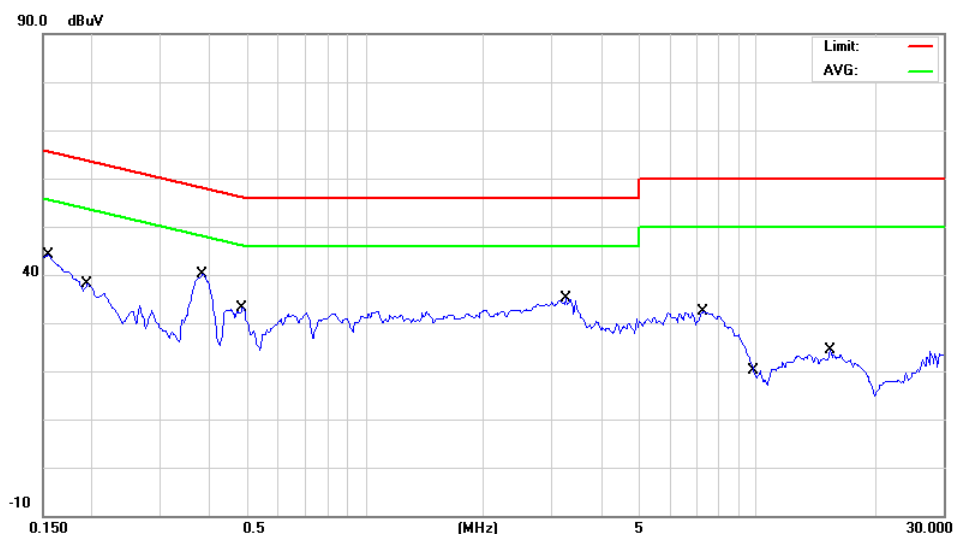
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 18 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.1G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH40
			Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	40.72	0.06	40.78	65.73	-24.95	QP	
	2	0.1550	26.43	0.06	26.49	55.73	-29.24	AVG	
	3	0.1950	34.86	0.00	34.86	63.82	-28.96	QP	
	4	0.1950	23.07	0.00	23.07	53.82	-30.75	AVG	
	5	0.3850	38.64	0.11	38.75	58.17	-19.42	QP	
*	6	0.3850	29.77	0.11	29.88	48.17	-18.29	AVG	
	7	0.4850	30.22	0.11	30.33	56.25	-25.92	QP	
	8	0.4850	19.91	0.11	20.02	46.25	-26.23	AVG	
	9	3.2500	31.00	0.13	31.13	56.00	-24.87	QP	
	10	3.2500	22.66	0.13	22.79	46.00	-23.21	AVG	
	11	7.3250	27.72	0.22	27.94	60.00	-32.06	QP	
	12	7.3250	20.78	0.22	21.00	50.00	-29.00	AVG	
	13	10.0000	14.52	0.32	14.84	60.00	-45.16	QP	
	14	10.0000	8.89	0.32	9.21	50.00	-40.79	AVG	
	15	15.4250	18.42	0.45	18.87	60.00	-41.13	QP	
	16	15.4250	12.68	0.45	13.13	50.00	-36.87	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 19 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

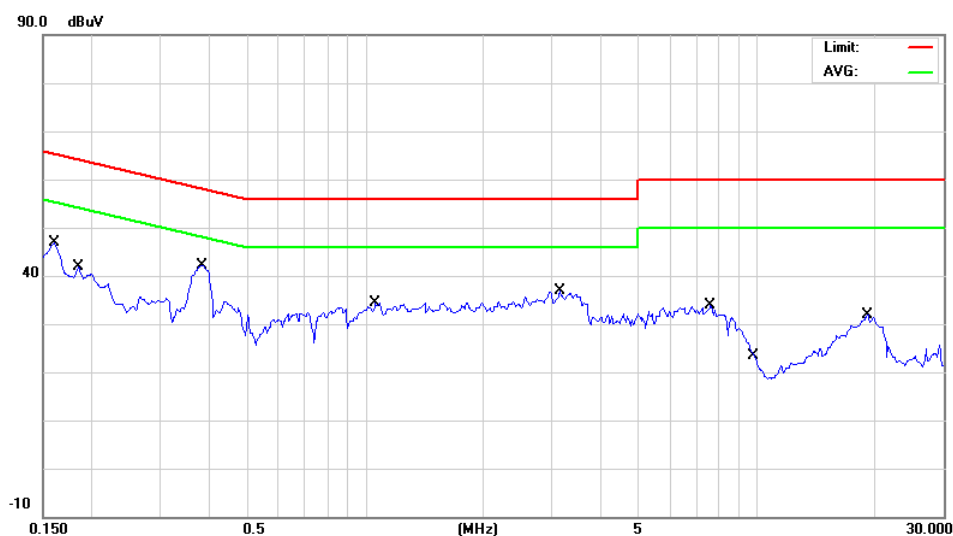
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.1G
802.11a_CH48

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.48	-0.12	42.36	65.46	-23.10	QP	
	2	0.1600	30.14	-0.12	30.02	55.46	-25.44	AVG	
	3	0.1850	38.46	-0.11	38.35	64.26	-25.91	QP	
	4	0.1850	26.32	-0.11	26.21	54.26	-28.05	AVG	
	5	0.3850	41.36	-0.15	41.21	58.17	-16.96	QP	
*	6	0.3850	32.75	-0.15	32.60	48.17	-15.57	AVG	
	7	1.0650	31.74	-0.05	31.69	56.00	-24.31	QP	
	8	1.0650	20.78	-0.05	20.73	46.00	-25.27	AVG	
	9	3.1500	32.76	0.05	32.81	56.00	-23.19	QP	
	10	3.1500	24.45	0.05	24.50	46.00	-21.50	AVG	
	11	7.6250	28.76	0.15	28.91	60.00	-31.09	QP	
	12	7.6250	22.11	0.15	22.26	50.00	-27.74	AVG	
	13	10.0000	18.54	0.14	18.68	60.00	-41.32	QP	
	14	10.0000	13.18	0.14	13.32	50.00	-36.68	AVG	
	15	19.2150	27.16	0.50	27.66	60.00	-32.34	QP	
	16	19.2150	21.56	0.50	22.06	50.00	-27.94	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

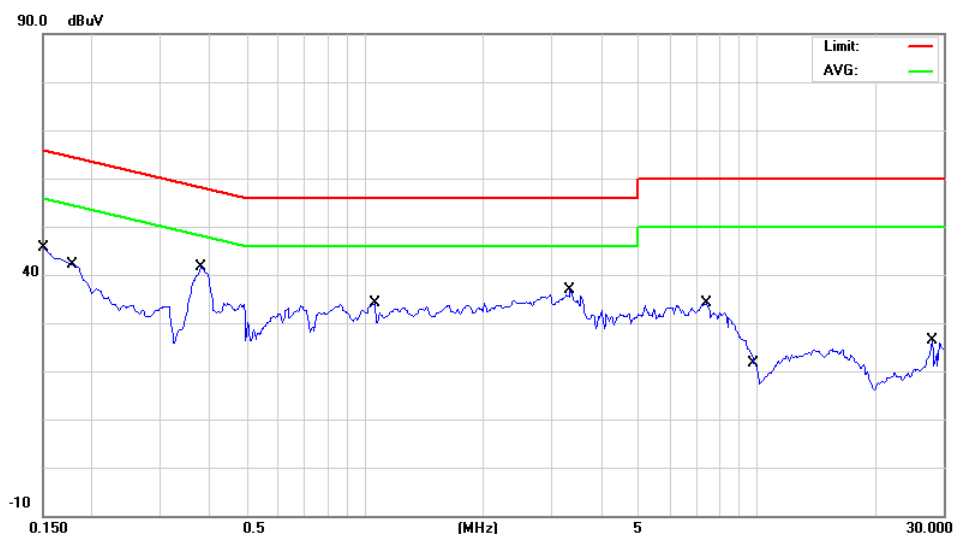
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 20 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.1G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH48
			Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.80	0.07	42.87	66.00	-23.13	QP	
	2	0.1500	29.09	0.07	29.16	56.00	-26.84	AVG	
	3	0.1800	37.88	0.02	37.90	64.49	-26.59	QP	
	4	0.1800	22.99	0.02	23.01	54.49	-31.48	AVG	
	5	0.3800	39.86	0.11	39.97	58.28	-18.31	QP	
*	6	0.3800	31.47	0.11	31.58	48.28	-16.70	AVG	
	7	1.0650	30.84	0.05	30.89	56.00	-25.11	QP	
	8	1.0650	19.68	0.05	19.73	46.00	-26.27	AVG	
	9	3.3350	32.56	0.12	32.68	56.00	-23.32	QP	
	10	3.3350	23.75	0.12	23.87	46.00	-22.13	AVG	
	11	7.4150	28.74	0.23	28.97	60.00	-31.03	QP	
	12	7.4150	21.93	0.23	22.16	50.00	-27.84	AVG	
	13	10.0000	15.28	0.32	15.60	60.00	-44.40	QP	
	14	10.0000	9.71	0.32	10.03	50.00	-39.97	AVG	
	15	28.0100	17.60	0.74	18.34	60.00	-41.66	QP	
	16	28.0100	11.41	0.74	12.15	50.00	-37.85	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 21 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

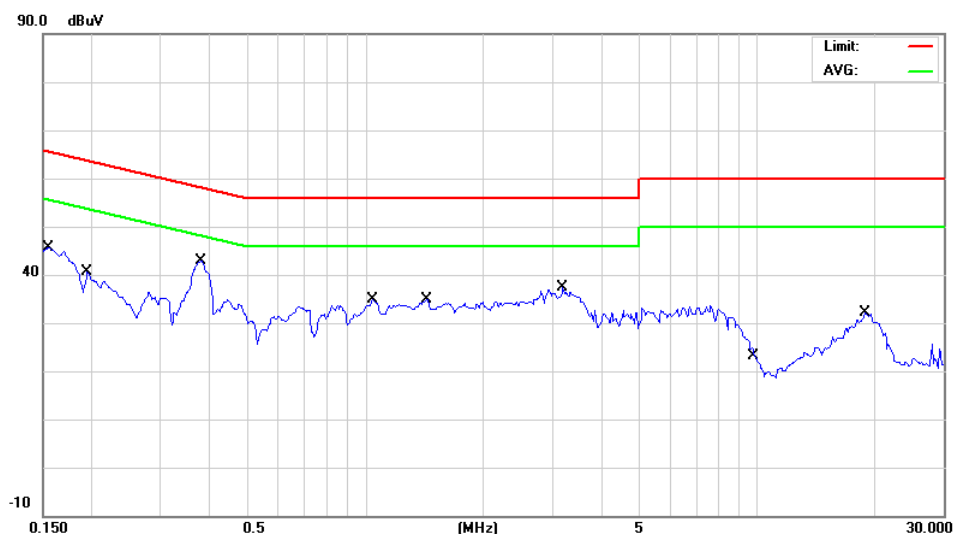
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH36
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.82	-0.12	42.70	65.73	-23.03	QP	
	2	0.1550	28.85	-0.12	28.73	55.73	-27.00	AVG	
	3	0.1950	37.68	-0.11	37.57	63.82	-26.25	QP	
	4	0.1950	26.59	-0.11	26.48	53.82	-27.34	AVG	
	5	0.3800	41.40	-0.15	41.25	58.28	-17.03	QP	
*	6	0.3800	32.99	-0.15	32.84	48.28	-15.44	AVG	
	7	1.0450	31.88	-0.05	31.83	56.00	-24.17	QP	
	8	1.0450	21.98	-0.05	21.93	46.00	-24.07	AVG	
	9	1.4400	31.46	-0.06	31.40	56.00	-24.60	QP	
	10	1.4400	21.84	-0.06	21.78	46.00	-24.22	AVG	
	11	3.1950	32.70	0.06	32.76	56.00	-23.24	QP	
	12	3.1950	24.38	0.06	24.44	46.00	-21.56	AVG	
	13	10.0000	18.74	0.14	18.88	60.00	-41.12	QP	
	14	10.0000	13.31	0.14	13.45	50.00	-36.55	AVG	
	15	18.9200	26.90	0.48	27.38	60.00	-32.62	QP	
	16	18.9200	21.37	0.48	21.85	50.00	-28.15	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

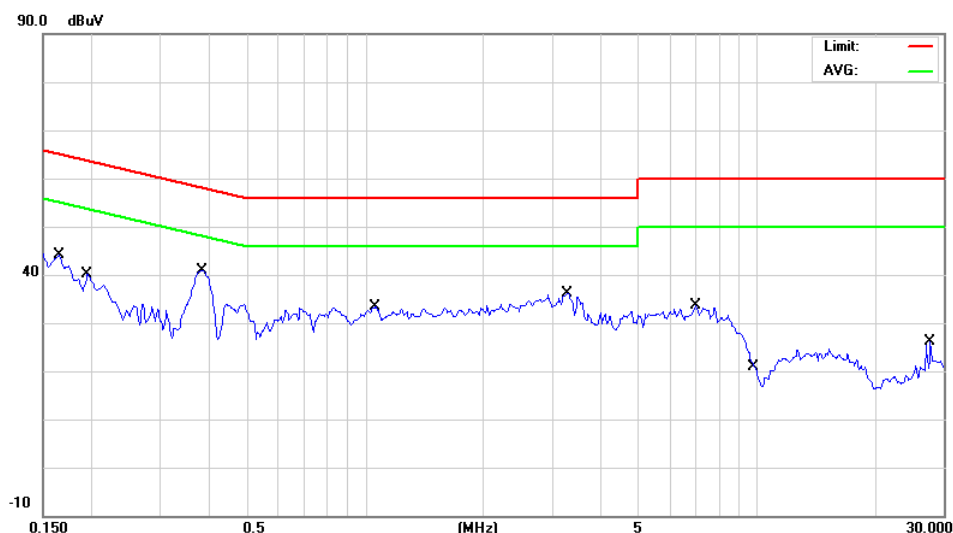
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 22 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH36 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	40.74	0.05	40.79	65.21	-24.42	QP	
	2	0.1650	29.32	0.05	29.37	55.21	-25.84	AVG	
	3	0.1950	35.98	0.00	35.98	63.82	-27.84	QP	
	4	0.1950	23.97	0.00	23.97	53.82	-29.85	AVG	
	5	0.3850	39.62	0.11	39.73	58.17	-18.44	QP	
*	6	0.3850	30.73	0.11	30.84	48.17	-17.33	AVG	
	7	1.0650	30.52	0.05	30.57	56.00	-25.43	QP	
	8	1.0650	19.14	0.05	19.19	46.00	-26.81	AVG	
	9	3.2900	32.22	0.13	32.35	56.00	-23.65	QP	
	10	3.2900	23.60	0.13	23.73	46.00	-22.27	AVG	
	11	6.9750	28.28	0.21	28.49	60.00	-31.51	QP	
	12	6.9750	21.08	0.21	21.29	50.00	-28.71	AVG	
	13	10.0000	15.14	0.32	15.46	60.00	-44.54	QP	
	14	10.0000	9.57	0.32	9.89	50.00	-40.11	AVG	
	15	27.7200	18.66	0.74	19.40	60.00	-40.60	QP	
	16	27.7200	8.89	0.74	9.63	50.00	-40.37	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 23 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

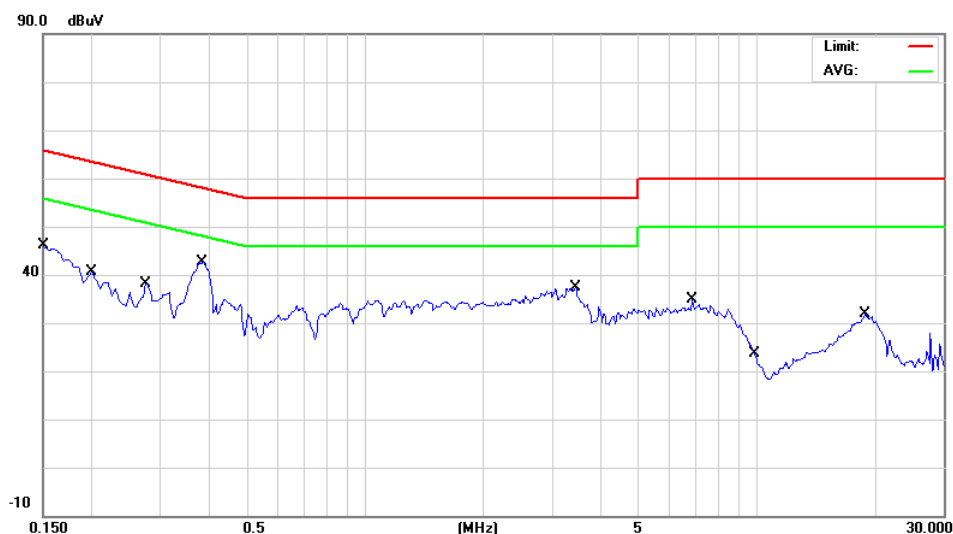
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH40
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.62	-0.12	43.50	66.00	-22.50	QP	
	2	0.1500	30.14	-0.12	30.02	56.00	-25.98	AVG	
	3	0.2000	37.30	-0.11	37.19	63.61	-26.42	QP	
	4	0.2000	24.59	-0.11	24.48	53.61	-29.13	AVG	
	5	0.2750	33.04	-0.13	32.91	60.97	-28.06	QP	
	6	0.2750	24.52	-0.13	24.39	50.97	-26.58	AVG	
	7	0.3850	41.66	-0.15	41.51	58.17	-16.66	QP	
*	8	0.3850	33.07	-0.15	32.92	48.17	-15.25	AVG	
	9	3.4500	32.84	0.08	32.92	56.00	-23.08	QP	
	10	3.4500	24.32	0.08	24.40	46.00	-21.60	AVG	
	11	6.8300	29.22	0.14	29.36	60.00	-30.64	QP	
	12	6.8300	21.66	0.14	21.80	50.00	-28.20	AVG	
	13	10.0000	19.04	0.14	19.18	60.00	-40.82	QP	
	14	10.0000	13.55	0.14	13.69	50.00	-36.31	AVG	
	15	18.9100	27.04	0.48	27.52	60.00	-32.48	QP	
	16	18.9100	21.37	0.48	21.85	50.00	-28.15	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

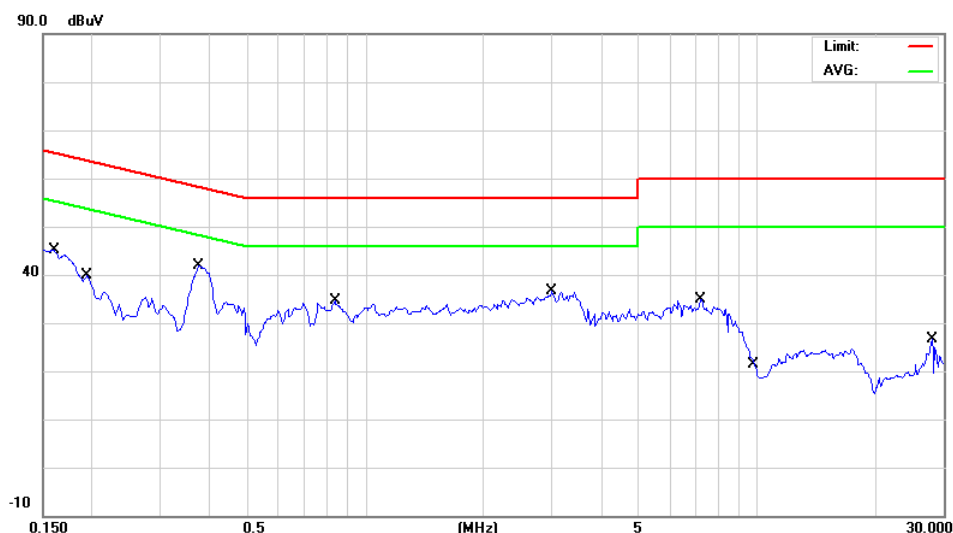
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 24 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH40 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	41.82	0.05	41.87	65.46	-23.59	QP	
	2	0.1600	29.01	0.05	29.06	55.46	-26.40	AVG	
	3	0.1950	36.82	0.00	36.82	63.82	-27.00	QP	
	4	0.1950	24.65	0.00	24.65	53.82	-29.17	AVG	
	5	0.3750	39.82	0.10	39.92	58.39	-18.47	QP	
*	6	0.3750	31.70	0.10	31.80	48.39	-16.59	AVG	
	7	0.8350	31.10	0.06	31.16	56.00	-24.84	QP	
	8	0.8350	22.91	0.06	22.97	46.00	-23.03	AVG	
	9	2.9950	32.02	0.13	32.15	56.00	-23.85	QP	
	10	2.9950	23.30	0.13	23.43	46.00	-22.57	AVG	
	11	7.2100	28.90	0.21	29.11	60.00	-30.89	QP	
	12	7.2100	21.98	0.21	22.19	50.00	-27.81	AVG	
	13	10.0000	15.60	0.32	15.92	60.00	-44.08	QP	
	14	10.0000	9.98	0.32	10.30	50.00	-39.70	AVG	
	15	28.0300	22.52	0.74	23.26	60.00	-36.74	QP	
	16	28.0300	15.40	0.74	16.14	50.00	-33.86	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 25 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.1G

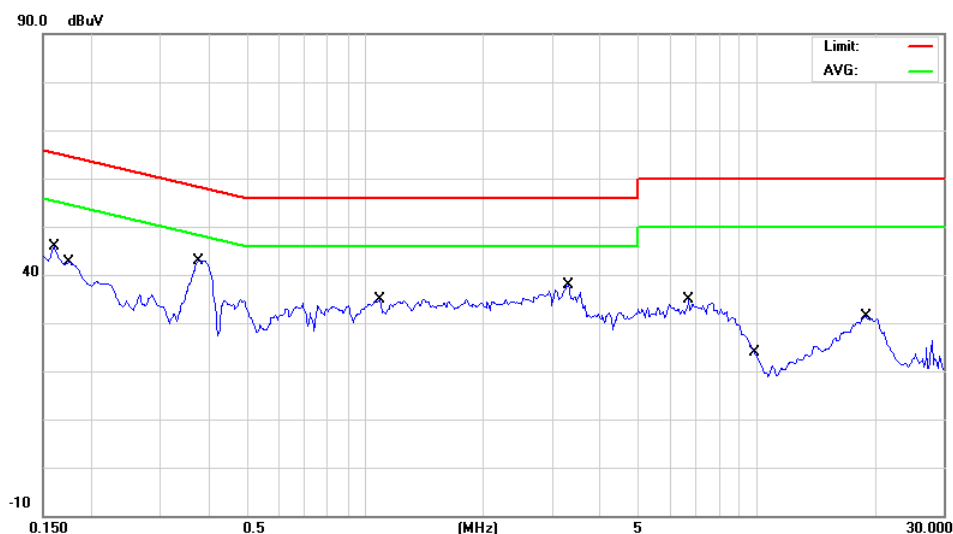
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH48
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.72	-0.12	42.60	65.46	-22.86	QP	
	2	0.1600	30.78	-0.12	30.66	55.46	-24.80	AVG	
	3	0.1750	39.80	-0.12	39.68	64.72	-25.04	QP	
	4	0.1750	25.53	-0.12	25.41	54.72	-29.31	AVG	
	5	0.3750	41.42	-0.14	41.28	58.39	-17.11	QP	
*	6	0.3750	33.22	-0.14	33.08	48.39	-15.31	AVG	
	7	1.0900	31.14	-0.05	31.09	56.00	-24.91	QP	
	8	1.0900	20.88	-0.05	20.83	46.00	-25.17	AVG	
	9	3.3000	33.08	0.06	33.14	56.00	-22.86	QP	
	10	3.3000	24.45	0.06	24.51	46.00	-21.49	AVG	
	11	6.7100	28.80	0.14	28.94	60.00	-31.06	QP	
	12	6.7100	21.47	0.14	21.61	50.00	-28.39	AVG	
	13	10.0000	18.92	0.14	19.06	60.00	-40.94	QP	
	14	10.0000	13.66	0.14	13.80	50.00	-36.20	AVG	
	15	19.0400	26.88	0.49	27.37	60.00	-32.63	QP	
	16	19.0400	21.33	0.49	21.82	50.00	-28.18	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

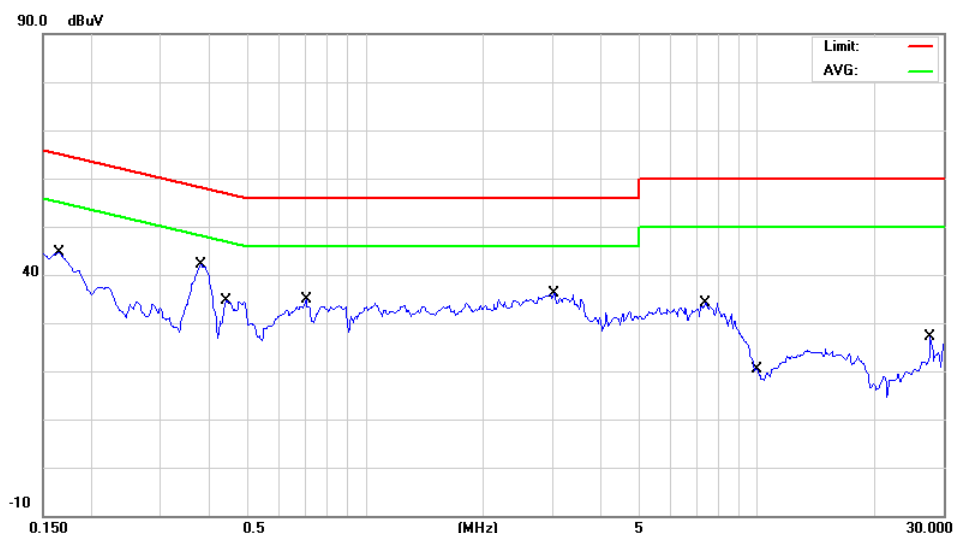
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 26 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH48 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	41.48	0.05	41.53	65.21	-23.68	QP	
	2	0.1650	30.19	0.05	30.24	55.21	-24.97	AVG	
	3	0.3800	39.94	0.11	40.05	58.28	-18.23	QP	
*	4	0.3800	31.52	0.11	31.63	48.28	-16.65	AVG	
	5	0.4400	32.40	0.11	32.51	57.06	-24.55	QP	
	6	0.4400	22.11	0.11	22.22	47.06	-24.84	AVG	
	7	0.7050	30.94	0.07	31.01	56.00	-24.99	QP	
	8	0.7050	20.25	0.07	20.32	46.00	-25.68	AVG	
	9	3.0400	31.92	0.14	32.06	56.00	-23.94	QP	
	10	3.0400	23.22	0.14	23.36	46.00	-22.64	AVG	
	11	7.3850	28.90	0.23	29.13	60.00	-30.87	QP	
	12	7.3850	22.02	0.23	22.25	50.00	-27.75	AVG	
	13	10.0000	15.58	0.32	15.90	60.00	-44.10	QP	
	14	10.0000	10.03	0.32	10.35	50.00	-39.65	AVG	
	15	27.7400	23.54	0.74	24.28	60.00	-35.72	QP	
	16	27.7400	12.55	0.74	13.29	50.00	-36.71	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 27 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

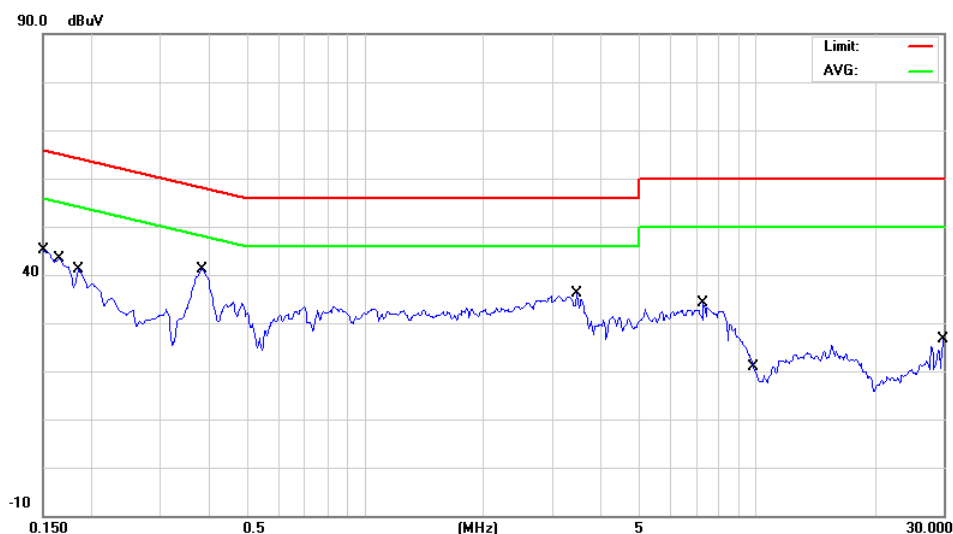
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH36
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.54	-0.12	42.42	66.00	-23.58	QP	
	2	0.1500	28.52	-0.12	28.40	56.00	-27.60	AVG	
	3	0.1650	41.06	-0.12	40.94	65.21	-24.27	QP	
	4	0.1650	29.62	-0.12	29.50	55.21	-25.71	AVG	
	5	0.1850	37.44	-0.11	37.33	64.26	-26.93	QP	
	6	0.1850	24.38	-0.11	24.27	54.26	-29.99	AVG	
	7	0.3850	39.46	-0.15	39.31	58.17	-18.86	QP	
*	8	0.3850	31.23	-0.15	31.08	48.17	-17.09	AVG	
	9	3.4700	31.32	0.08	31.40	56.00	-24.60	QP	
	10	3.4700	22.50	0.08	22.58	46.00	-23.42	AVG	
	11	7.3100	28.38	0.13	28.51	60.00	-31.49	QP	
	12	7.3100	21.56	0.13	21.69	50.00	-28.31	AVG	
	13	10.0000	15.04	0.14	15.18	60.00	-44.82	QP	
	14	10.0000	9.57	0.14	9.71	50.00	-40.29	AVG	
	15	29.9900	18.22	0.87	19.09	60.00	-40.91	QP	
	16	29.9900	10.37	0.87	11.24	50.00	-38.76	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

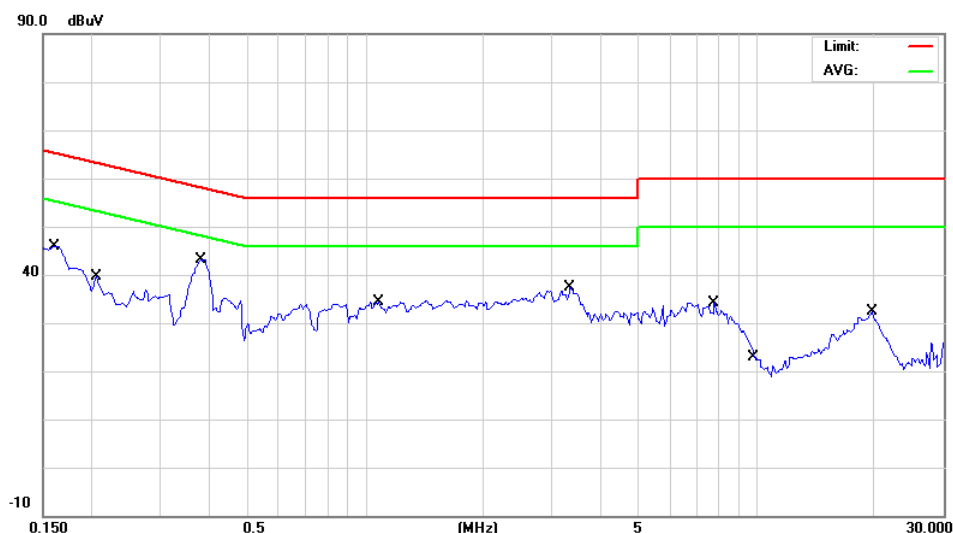
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 28 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH36 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.80	0.05	42.85	65.46	-22.61	QP	
	2	0.1600	30.52	0.05	30.57	55.46	-24.89	AVG	
	3	0.2050	36.08	-0.01	36.07	63.41	-27.34	QP	
	4	0.2050	24.11	-0.01	24.10	53.41	-29.31	AVG	
	5	0.3800	41.78	0.11	41.89	58.28	-16.39	QP	
*	6	0.3800	33.30	0.11	33.41	48.28	-14.87	AVG	
	7	1.0800	30.76	0.05	30.81	56.00	-25.19	QP	
	8	1.0800	20.73	0.05	20.78	46.00	-25.22	AVG	
	9	3.3350	33.74	0.12	33.86	56.00	-22.14	QP	
	10	3.3350	24.59	0.12	24.71	46.00	-21.29	AVG	
	11	7.8100	29.10	0.25	29.35	60.00	-30.65	QP	
	12	7.8100	22.41	0.25	22.66	50.00	-27.34	AVG	
	13	10.0000	18.98	0.32	19.30	60.00	-40.70	QP	
	14	10.0000	13.61	0.32	13.93	50.00	-36.07	AVG	
	15	19.6550	26.86	0.55	27.41	60.00	-32.59	QP	
	16	19.6550	21.28	0.55	21.83	50.00	-28.17	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 29 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.1G

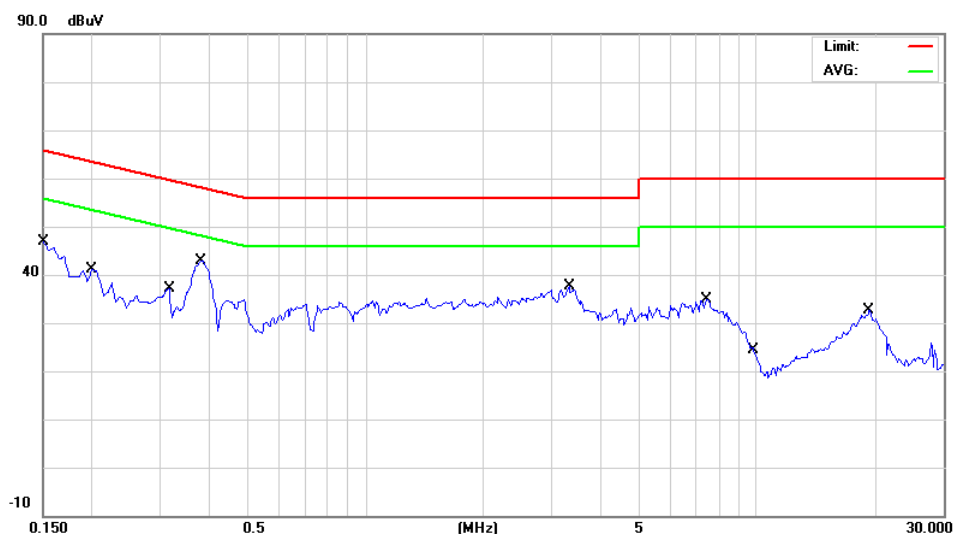
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH40
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.98	-0.12	43.86	66.00	-22.14	QP	
	2	0.1500	30.30	-0.12	30.18	56.00	-25.82	AVG	
	3	0.2000	37.78	-0.11	37.67	63.61	-25.94	QP	
	4	0.2000	24.85	-0.11	24.74	53.61	-28.87	AVG	
	5	0.3150	32.86	-0.13	32.73	59.84	-27.11	QP	
	6	0.3150	20.52	-0.13	20.39	49.84	-29.45	AVG	
	7	0.3800	41.90	-0.15	41.75	58.28	-16.53	QP	
*	8	0.3800	33.45	-0.15	33.30	48.28	-14.98	AVG	
	9	3.3150	33.70	0.07	33.77	56.00	-22.23	QP	
	10	3.3150	25.04	0.07	25.11	46.00	-20.89	AVG	
	11	7.4850	29.40	0.14	29.54	60.00	-30.46	QP	
	12	7.4850	22.58	0.14	22.72	50.00	-27.28	AVG	
	13	10.0000	19.20	0.14	19.34	60.00	-40.66	QP	
	14	10.0000	13.78	0.14	13.92	50.00	-36.08	AVG	
	15	19.4050	27.00	0.50	27.50	60.00	-32.50	QP	
	16	19.4050	21.37	0.50	21.87	50.00	-28.13	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

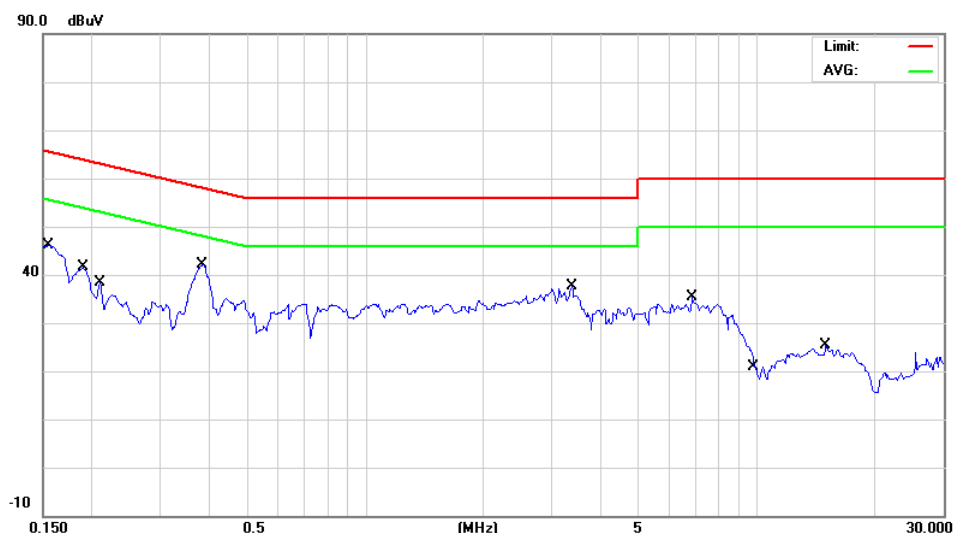
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 30 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH40 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	43.20	0.06	43.26	65.73	-22.47	QP	
	2	0.1550	28.68	0.06	28.74	55.73	-26.99	AVG	
	3	0.1900	38.08	0.01	38.09	64.04	-25.95	QP	
	4	0.1900	26.05	0.01	26.06	54.04	-27.98	AVG	
	5	0.2100	35.28	0.00	35.28	63.21	-27.93	QP	
	6	0.2100	22.99	0.00	22.99	53.21	-30.22	AVG	
	7	0.3850	40.76	0.11	40.87	58.17	-17.30	QP	
*	8	0.3850	31.93	0.11	32.04	48.17	-16.13	AVG	
	9	3.3650	32.96	0.12	33.08	56.00	-22.92	QP	
	10	3.3650	24.18	0.12	24.30	46.00	-21.70	AVG	
	11	6.8100	29.14	0.21	29.35	60.00	-30.65	QP	
	12	6.8100	21.80	0.21	22.01	50.00	-27.99	AVG	
	13	10.0000	16.00	0.32	16.32	60.00	-43.68	QP	
	14	10.0000	10.37	0.32	10.69	50.00	-39.31	AVG	
	15	14.9950	19.48	0.44	19.92	60.00	-40.08	QP	
	16	14.9950	13.95	0.44	14.39	50.00	-35.61	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 31 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

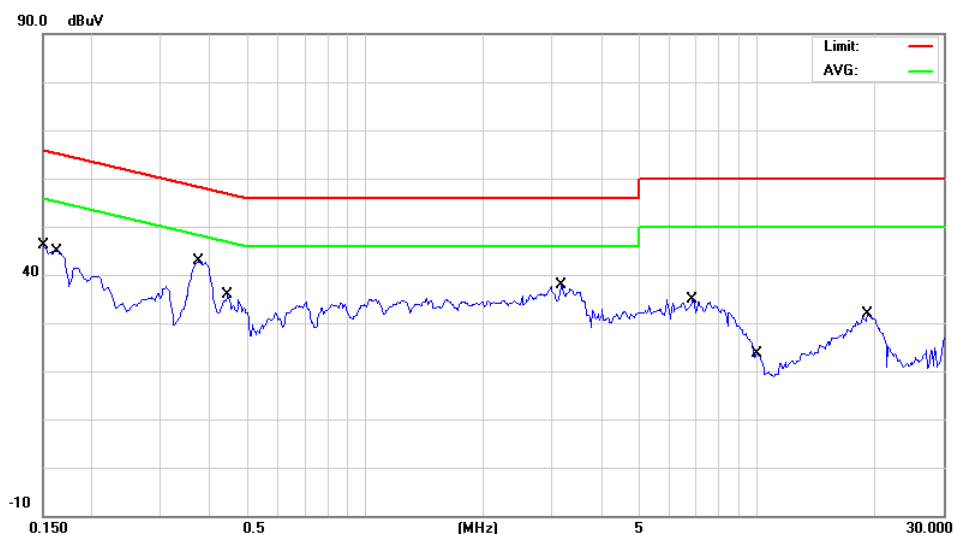
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH48
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.12	-0.12	44.00	66.00	-22.00	QP	
	2	0.1500	30.52	-0.12	30.40	56.00	-25.60	AVG	
	3	0.1641	42.86	-0.12	42.74	65.25	-22.51	QP	
	4	0.1641	31.89	-0.12	31.77	55.25	-23.48	AVG	
	5	0.3750	41.90	-0.14	41.76	58.39	-16.63	QP	
*	6	0.3750	33.68	-0.14	33.54	48.39	-14.85	AVG	
	7	0.4450	32.66	-0.14	32.52	56.97	-24.45	QP	
	8	0.4450	23.45	-0.14	23.31	46.97	-23.66	AVG	
	9	3.1650	33.48	0.05	33.53	56.00	-22.47	QP	
	10	3.1650	24.78	0.05	24.83	46.00	-21.17	AVG	
	11	6.8700	29.30	0.14	29.44	60.00	-30.56	QP	
	12	6.8700	22.11	0.14	22.25	50.00	-27.75	AVG	
	13	10.0000	19.28	0.14	19.42	60.00	-40.58	QP	
	14	10.0000	13.89	0.14	14.03	50.00	-35.97	AVG	
	15	19.1950	26.78	0.50	27.28	60.00	-32.72	QP	
	16	19.1950	21.28	0.50	21.78	50.00	-28.22	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 32 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.1G
802.11n - HT20_CH48
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	42.34	0.05	42.39	65.21	-22.82	QP	
	2	0.1650	30.83	0.05	30.88	55.21	-24.33	AVG	
	3	0.2000	36.90	-0.01	36.89	63.61	-26.72	QP	
	4	0.2000	22.83	-0.01	22.82	53.61	-30.79	AVG	
	5	0.3800	40.66	0.11	40.77	58.28	-17.51	QP	
*	6	0.3800	32.24	0.11	32.35	48.28	-15.93	AVG	
	7	0.4900	32.76	0.11	32.87	56.17	-23.30	QP	
	8	0.4900	20.62	0.11	20.73	46.17	-25.44	AVG	
	9	0.7050	31.78	0.07	31.85	56.00	-24.15	QP	
	10	0.7050	19.68	0.07	19.75	46.00	-26.25	AVG	
	11	2.9750	32.46	0.13	32.59	56.00	-23.41	QP	
	12	2.9750	23.90	0.13	24.03	46.00	-21.97	AVG	
	13	7.2150	29.40	0.22	29.62	60.00	-30.38	QP	
	14	7.2150	22.50	0.22	22.72	50.00	-27.28	AVG	
	15	10.0000	16.08	0.32	16.40	60.00	-43.60	QP	
	16	10.0000	10.46	0.32	10.78	50.00	-39.22	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 33 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

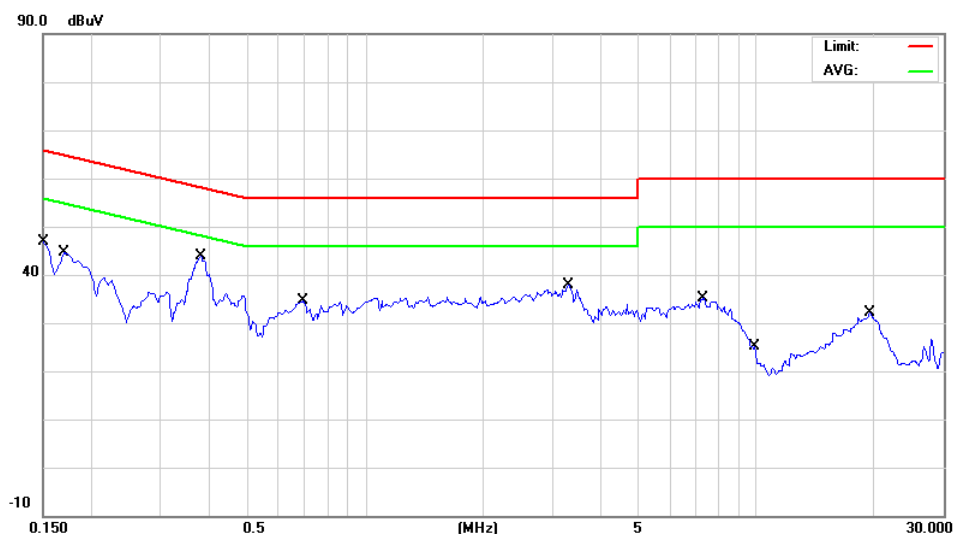
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH38
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.24	-0.12	44.12	66.00	-21.88	QP	
	2	0.1500	30.88	-0.12	30.76	56.00	-25.24	AVG	
	3	0.1700	42.44	-0.12	42.32	64.96	-22.64	QP	
	4	0.1700	30.46	-0.12	30.34	54.96	-24.62	AVG	
	5	0.3800	42.18	-0.15	42.03	58.28	-16.25	QP	
*	6	0.3800	33.82	-0.15	33.67	48.28	-14.61	AVG	
	7	0.6950	32.24	-0.11	32.13	56.00	-23.87	QP	
	8	0.6950	19.97	-0.11	19.86	46.00	-26.14	AVG	
	9	3.3050	33.94	0.06	34.00	56.00	-22.00	QP	
	10	3.3050	25.47	0.06	25.53	46.00	-20.47	AVG	
	11	7.3200	29.60	0.13	29.73	60.00	-30.27	QP	
	12	7.3200	22.83	0.13	22.96	50.00	-27.04	AVG	
	13	10.0000	19.46	0.14	19.60	60.00	-40.40	QP	
	14	10.0000	14.01	0.14	14.15	50.00	-35.85	AVG	
	15	19.4500	27.00	0.51	27.51	60.00	-32.49	QP	
	16	19.4500	21.47	0.51	21.98	50.00	-28.02	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

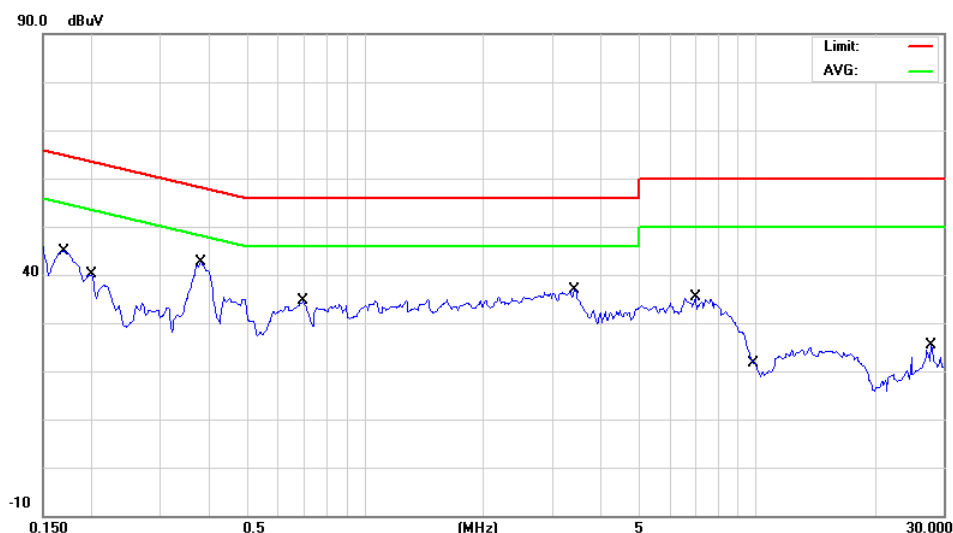
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 34 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH38 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1700	41.74	0.04	41.78	64.96	-23.18	QP	
	2	0.1700	29.24	0.04	29.28	54.96	-25.68	AVG	
	3	0.2000	37.22	-0.01	37.21	63.61	-26.40	QP	
	4	0.2000	23.75	-0.01	23.74	53.61	-29.87	AVG	
	5	0.3800	40.94	0.11	41.05	58.28	-17.23	QP	
*	6	0.3800	32.50	0.11	32.61	48.28	-15.67	AVG	
	7	0.6950	31.72	0.08	31.80	56.00	-24.20	QP	
	8	0.6950	19.74	0.08	19.82	46.00	-26.18	AVG	
	9	3.4350	32.30	0.12	32.42	56.00	-23.58	QP	
	10	3.4350	23.53	0.12	23.65	46.00	-22.35	AVG	
	11	6.9750	29.52	0.21	29.73	60.00	-30.27	QP	
	12	6.9750	22.33	0.21	22.54	50.00	-27.46	AVG	
	13	10.0000	16.22	0.32	16.54	60.00	-43.46	QP	
	14	10.0000	10.54	0.32	10.86	50.00	-39.14	AVG	
	15	27.9600	21.88	0.74	22.62	60.00	-37.38	QP	
	16	27.9600	16.09	0.74	16.83	50.00	-33.17	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 35 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

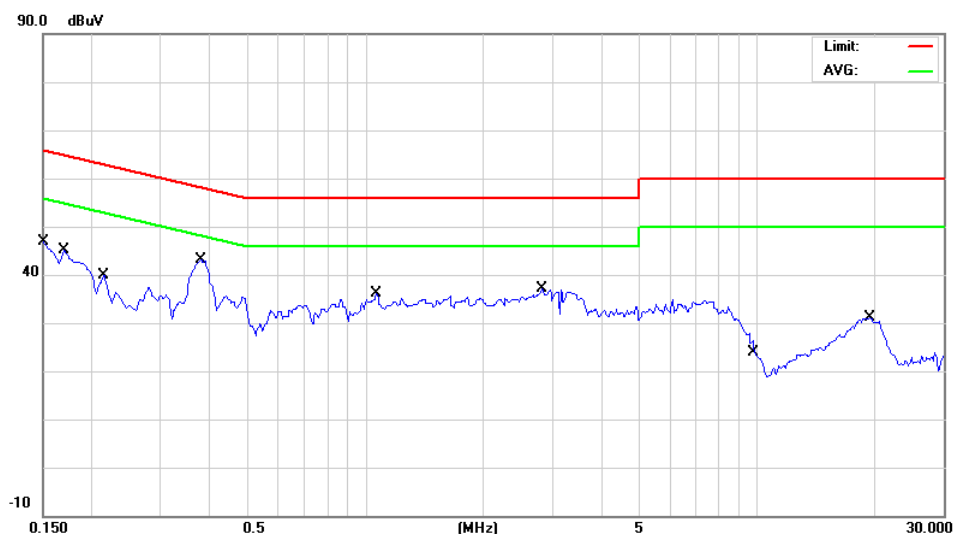
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH46
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.26	-0.12	44.14	66.00	-21.86	QP	
	2	0.1500	30.73	-0.12	30.61	56.00	-25.39	AVG	
	3	0.1700	42.48	-0.12	42.36	64.96	-22.60	QP	
	4	0.1700	30.41	-0.12	30.29	54.96	-24.67	AVG	
	5	0.2150	36.48	-0.11	36.37	63.01	-26.64	QP	
	6	0.2150	24.91	-0.11	24.80	53.01	-28.21	AVG	
	7	0.3800	42.36	-0.15	42.21	58.28	-16.07	QP	
*	8	0.3800	33.90	-0.15	33.75	48.28	-14.53	AVG	
	9	1.0700	32.92	-0.05	32.87	56.00	-23.13	QP	
	10	1.0700	21.52	-0.05	21.47	46.00	-24.53	AVG	
	11	2.8350	31.98	0.02	32.00	56.00	-24.00	QP	
	12	2.8350	23.75	0.02	23.77	46.00	-22.23	AVG	
	13	10.0000	19.54	0.14	19.68	60.00	-40.32	QP	
	14	10.0000	14.12	0.14	14.26	50.00	-35.74	AVG	
	15	19.4450	26.94	0.51	27.45	60.00	-32.55	QP	
	16	19.4450	21.18	0.51	21.69	50.00	-28.31	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

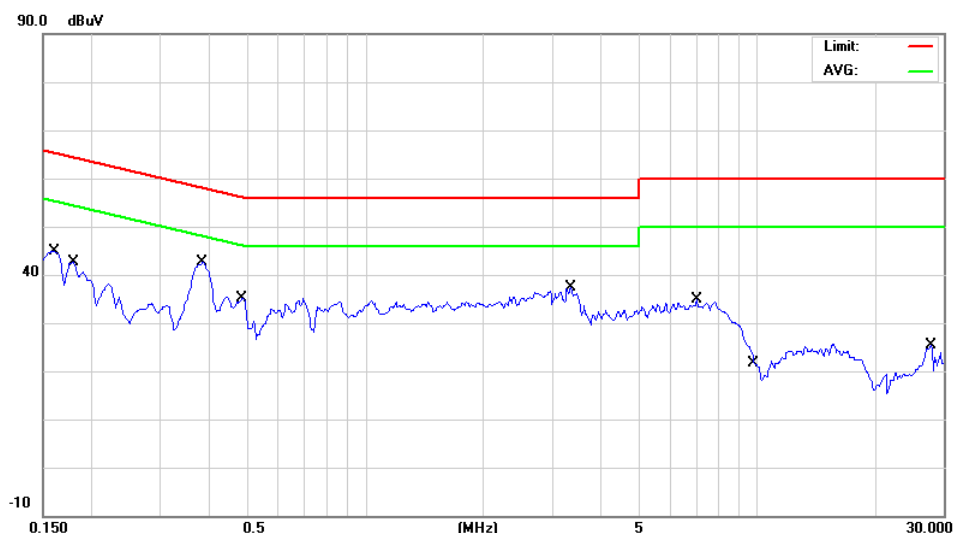
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 36 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH46 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.78	0.05	42.83	65.46	-22.63	QP	
	2	0.1600	29.77	0.05	29.82	55.46	-25.64	AVG	
	3	0.1800	38.78	0.02	38.80	64.49	-25.69	QP	
	4	0.1800	23.53	0.02	23.55	54.49	-30.94	AVG	
	5	0.3850	41.10	0.11	41.21	58.17	-16.96	QP	
*	6	0.3850	32.15	0.11	32.26	48.17	-15.91	AVG	
	7	0.4850	32.64	0.11	32.75	56.25	-23.50	QP	
	8	0.4850	21.98	0.11	22.09	46.25	-24.16	AVG	
	9	3.3500	33.50	0.12	33.62	56.00	-22.38	QP	
	10	3.3500	24.65	0.12	24.77	46.00	-21.23	AVG	
	11	7.0450	29.52	0.21	29.73	60.00	-30.27	QP	
	12	7.0450	22.66	0.21	22.87	50.00	-27.13	AVG	
	13	10.0000	16.24	0.32	16.56	60.00	-43.44	QP	
	14	10.0000	10.54	0.32	10.86	50.00	-39.14	AVG	
	15	27.9600	22.56	0.74	23.30	60.00	-36.70	QP	
	16	27.9600	16.89	0.74	17.63	50.00	-32.37	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 37 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.1G

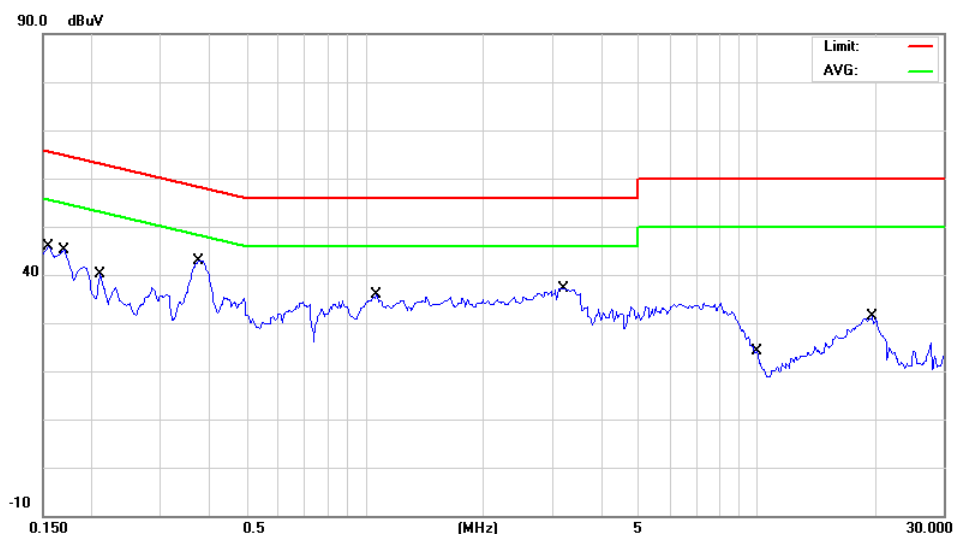
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH38
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	43.50	-0.12	43.38	65.73	-22.35	QP	
	2	0.1550	29.24	-0.12	29.12	55.73	-26.61	AVG	
	3	0.1700	42.16	-0.12	42.04	64.96	-22.92	QP	
	4	0.1700	30.14	-0.12	30.02	54.96	-24.94	AVG	
	5	0.2100	36.44	-0.11	36.33	63.21	-26.88	QP	
	6	0.2100	24.45	-0.11	24.34	53.21	-28.87	AVG	
	7	0.3750	41.80	-0.14	41.66	58.39	-16.73	QP	
*	8	0.3750	33.97	-0.14	33.83	48.39	-14.56	AVG	
	9	1.0700	32.60	-0.05	32.55	56.00	-23.45	QP	
	10	1.0700	21.47	-0.05	21.42	46.00	-24.58	AVG	
	11	3.2100	33.42	0.06	33.48	56.00	-22.52	QP	
	12	3.2100	24.91	0.06	24.97	46.00	-21.03	AVG	
	13	10.0000	19.38	0.14	19.52	60.00	-40.48	QP	
	14	10.0000	14.01	0.14	14.15	50.00	-35.85	AVG	
	15	19.8400	26.32	0.52	26.84	60.00	-33.16	QP	
	16	19.8400	20.52	0.52	21.04	50.00	-28.96	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

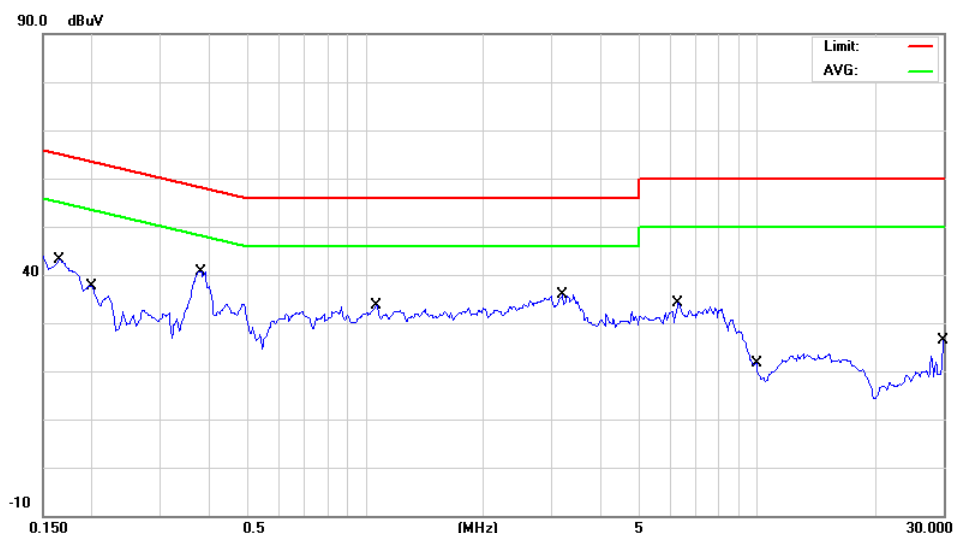
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 38 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH38 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	40.46	0.05	40.51	65.21	-24.70	QP	
	2	0.1650	28.60	0.05	28.65	55.21	-26.56	AVG	
	3	0.2000	35.44	-0.01	35.43	63.61	-28.18	QP	
	4	0.2000	21.89	-0.01	21.88	53.61	-31.73	AVG	
	5	0.3800	39.10	0.11	39.21	58.28	-19.07	QP	
*	6	0.3800	30.78	0.11	30.89	48.28	-17.39	AVG	
	7	1.0700	30.34	0.05	30.39	56.00	-25.61	QP	
	8	1.0700	18.63	0.05	18.68	46.00	-27.32	AVG	
	9	3.1950	31.12	0.13	31.25	56.00	-24.75	QP	
	10	3.1950	22.99	0.13	23.12	46.00	-22.88	AVG	
	11	6.3150	27.96	0.19	28.15	60.00	-31.85	QP	
	12	6.3150	20.25	0.19	20.44	50.00	-29.56	AVG	
	13	10.0000	15.18	0.32	15.50	60.00	-44.50	QP	
	14	10.0000	9.57	0.32	9.89	50.00	-40.11	AVG	
	15	29.9900	16.36	0.79	17.15	60.00	-42.85	QP	
	16	29.9900	8.15	0.79	8.94	50.00	-41.06	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

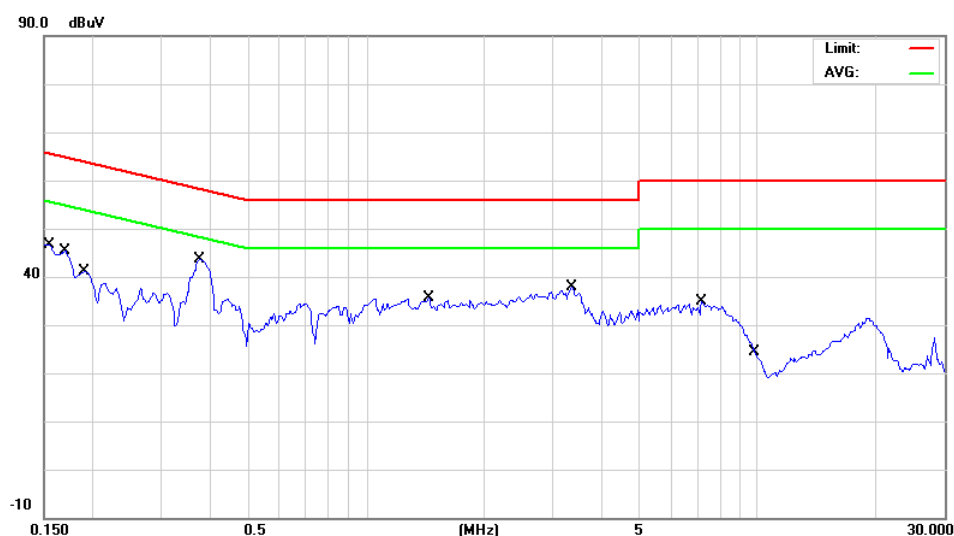
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 39 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.1G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11n - HT40_CH46 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	43.74	-0.12	43.62	65.73	-22.11	QP	
	2	0.1550	29.62	-0.12	29.50	55.73	-26.23	AVG	
	3	0.1700	42.46	-0.12	42.34	64.96	-22.62	QP	
	4	0.1700	30.52	-0.12	30.40	54.96	-24.56	AVG	
	5	0.1900	39.12	-0.11	39.01	64.04	-25.03	QP	
	6	0.1900	27.86	-0.11	27.75	54.04	-26.29	AVG	
	7	0.3750	42.26	-0.14	42.12	58.39	-16.27	QP	
*	8	0.3750	34.11	-0.14	33.97	48.39	-14.42	AVG	
	9	1.4450	32.26	-0.06	32.20	56.00	-23.80	QP	
	10	1.4450	22.50	-0.06	22.44	46.00	-23.56	AVG	
	11	3.3500	33.90	0.07	33.97	56.00	-22.03	QP	
	12	3.3500	25.35	0.07	25.42	46.00	-20.58	AVG	
	13	7.1950	29.94	0.13	30.07	60.00	-29.93	QP	
	14	7.1950	22.83	0.13	22.96	50.00	-27.04	AVG	
	15	10.0000	19.44	0.14	19.58	60.00	-40.42	QP	
	16	10.0000	14.12	0.14	14.26	50.00	-35.74	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

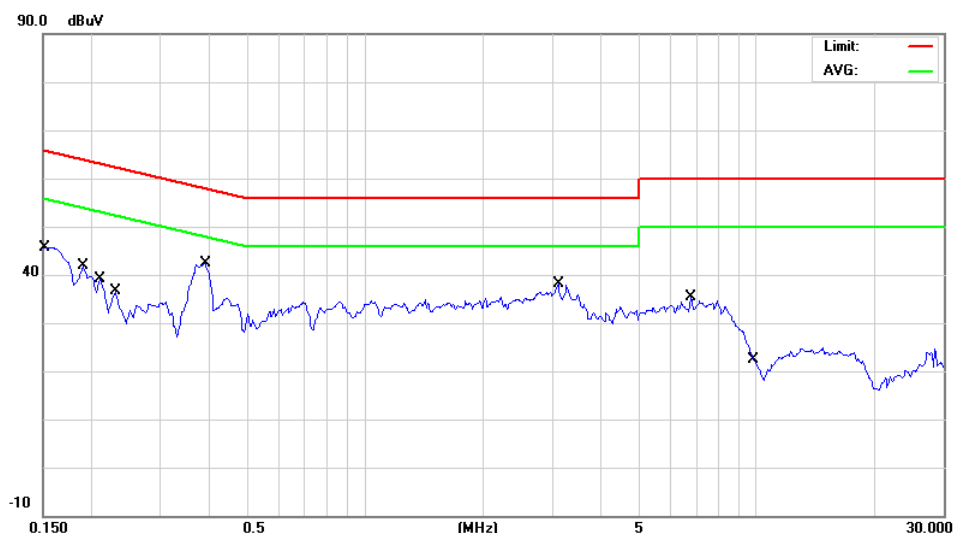
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 40 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH46 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.98	0.07	44.05	66.00	-21.95	QP	
	2	0.1500	30.14	0.07	30.21	56.00	-25.79	AVG	
	3	0.1904	38.56	0.01	38.57	64.02	-25.45	QP	
	4	0.1904	26.54	0.01	26.55	54.02	-27.47	AVG	
	5	0.2100	35.82	0.00	35.82	63.21	-27.39	QP	
	6	0.2100	22.99	0.00	22.99	53.21	-30.22	AVG	
	7	0.2300	32.86	0.01	32.87	62.45	-29.58	QP	
	8	0.2300	19.20	0.01	19.21	52.45	-33.24	AVG	
	9	0.3900	40.32	0.11	40.43	58.06	-17.63	QP	
*	10	0.3900	31.56	0.11	31.67	48.06	-16.39	AVG	
	11	3.1100	33.12	0.13	33.25	56.00	-22.75	QP	
	12	3.1100	24.72	0.13	24.85	46.00	-21.15	AVG	
	13	6.7850	29.36	0.20	29.56	60.00	-30.44	QP	
	14	6.7850	22.15	0.20	22.35	50.00	-27.65	AVG	
	15	10.0000	16.38	0.32	16.70	60.00	-43.30	QP	
	16	10.0000	10.79	0.32	11.11	50.00	-38.89	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 41 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.1G

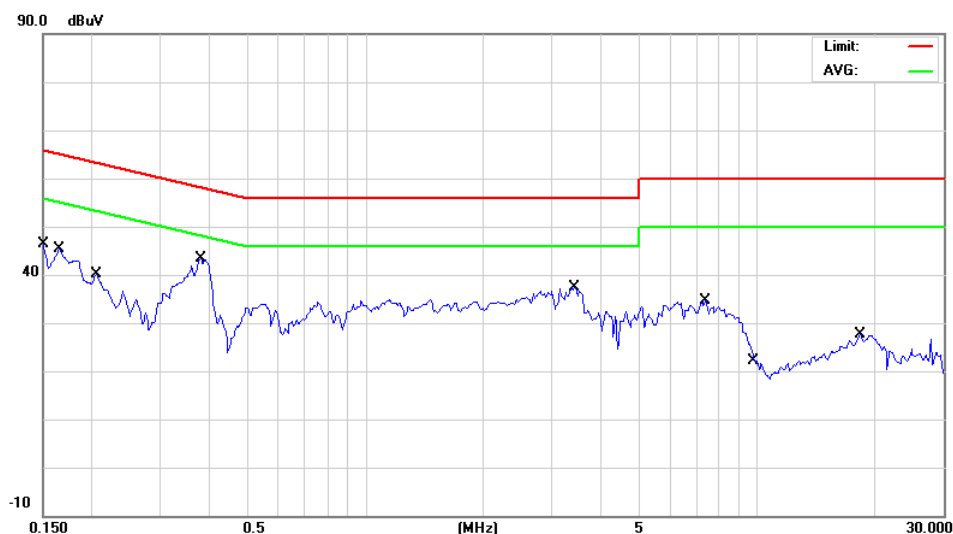
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH36
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.66	-0.12	43.54	66.00	-22.46	QP	
	2	0.1500	31.84	-0.12	31.72	56.00	-24.28	AVG	
	3	0.1650	42.22	-0.12	42.10	65.21	-23.11	QP	
	4	0.1650	29.92	-0.12	29.80	55.21	-25.41	AVG	
	5	0.2050	36.28	-0.11	36.17	63.41	-27.24	QP	
	6	0.2050	25.10	-0.11	24.99	53.41	-28.42	AVG	
	7	0.3800	42.32	-0.15	42.17	58.28	-16.11	QP	
*	8	0.3800	34.25	-0.15	34.10	48.28	-14.18	AVG	
	9	3.4350	34.16	0.07	34.23	56.00	-21.77	QP	
	10	3.4350	23.53	0.07	23.60	46.00	-22.40	AVG	
	11	7.4050	30.22	0.14	30.36	60.00	-29.64	QP	
	12	7.4050	21.08	0.14	21.22	50.00	-28.78	AVG	
	13	10.0000	18.32	0.14	18.46	60.00	-41.54	QP	
	14	10.0000	11.41	0.14	11.55	50.00	-38.45	AVG	
	15	18.3950	22.24	0.46	22.70	60.00	-37.30	QP	
	16	18.3950	16.22	0.46	16.68	50.00	-33.32	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

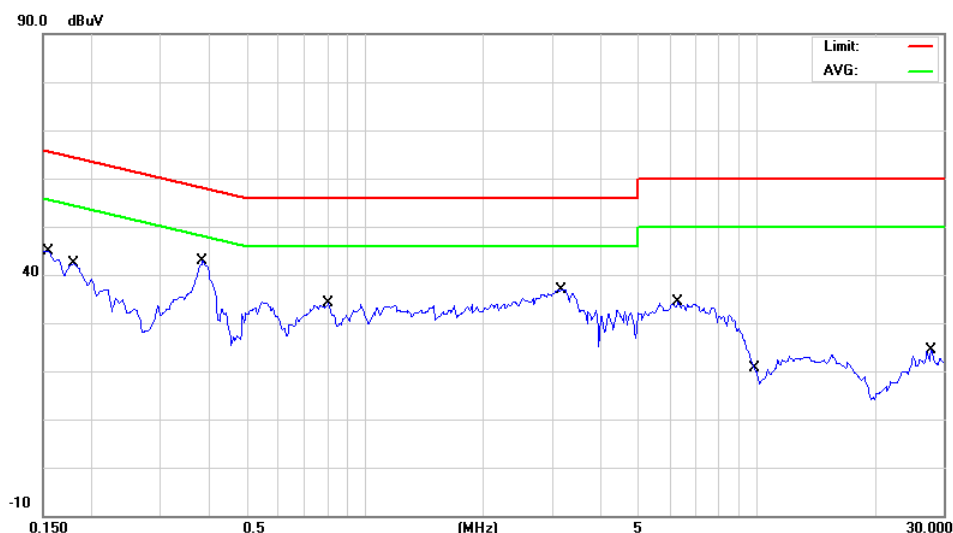
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 42 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH36 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.54	0.06	42.60	65.73	-23.13	QP	
	2	0.1550	31.84	0.06	31.90	55.73	-23.83	AVG	
	3	0.1800	38.90	0.02	38.92	64.49	-25.57	QP	
	4	0.1800	27.77	0.02	27.79	54.49	-26.70	AVG	
	5	0.3850	40.72	0.11	40.83	58.17	-17.34	QP	
*	6	0.3850	33.82	0.11	33.93	48.17	-14.24	AVG	
	7	0.8050	31.14	0.07	31.21	56.00	-24.79	QP	
	8	0.8050	20.30	0.07	20.37	46.00	-25.63	AVG	
	9	3.1700	34.34	0.13	34.47	56.00	-21.53	QP	
	10	3.1700	22.11	0.13	22.24	46.00	-23.76	AVG	
	11	6.2900	29.92	0.19	30.11	60.00	-29.89	QP	
	12	6.2900	20.78	0.19	20.97	50.00	-29.03	AVG	
	13	10.0000	14.76	0.32	15.08	60.00	-44.92	QP	
	14	10.0000	7.99	0.32	8.31	50.00	-41.69	AVG	
	15	27.9500	22.58	0.74	23.32	60.00	-36.68	QP	
	16	27.9500	16.97	0.74	17.71	50.00	-32.29	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 43 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

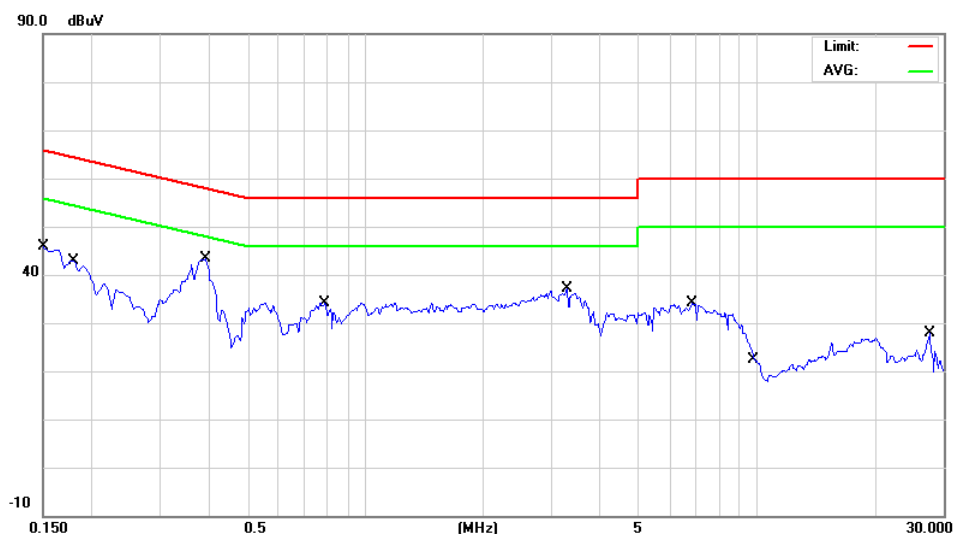
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH40
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.26	-0.12	43.14	66.00	-22.86	QP	
	2	0.1500	31.47	-0.12	31.35	56.00	-24.65	AVG	
	3	0.1800	39.52	-0.11	39.41	64.49	-25.08	QP	
	4	0.1800	28.93	-0.11	28.82	54.49	-25.67	AVG	
	5	0.3900	41.98	-0.15	41.83	58.06	-16.23	QP	
*	6	0.3900	34.32	-0.15	34.17	48.06	-13.89	AVG	
	7	0.7900	31.98	-0.08	31.90	56.00	-24.10	QP	
	8	0.7900	22.41	-0.08	22.33	46.00	-23.67	AVG	
	9	3.2800	34.40	0.06	34.46	56.00	-21.54	QP	
	10	3.2800	22.99	0.06	23.05	46.00	-22.95	AVG	
	11	6.8150	29.60	0.14	29.74	60.00	-30.26	QP	
	12	6.8150	20.73	0.14	20.87	50.00	-29.13	AVG	
	13	10.0000	18.16	0.14	18.30	60.00	-41.70	QP	
	14	10.0000	11.64	0.14	11.78	50.00	-38.22	AVG	
	15	27.6500	17.60	0.79	18.39	60.00	-41.61	QP	
	16	27.6500	10.29	0.79	11.08	50.00	-38.92	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

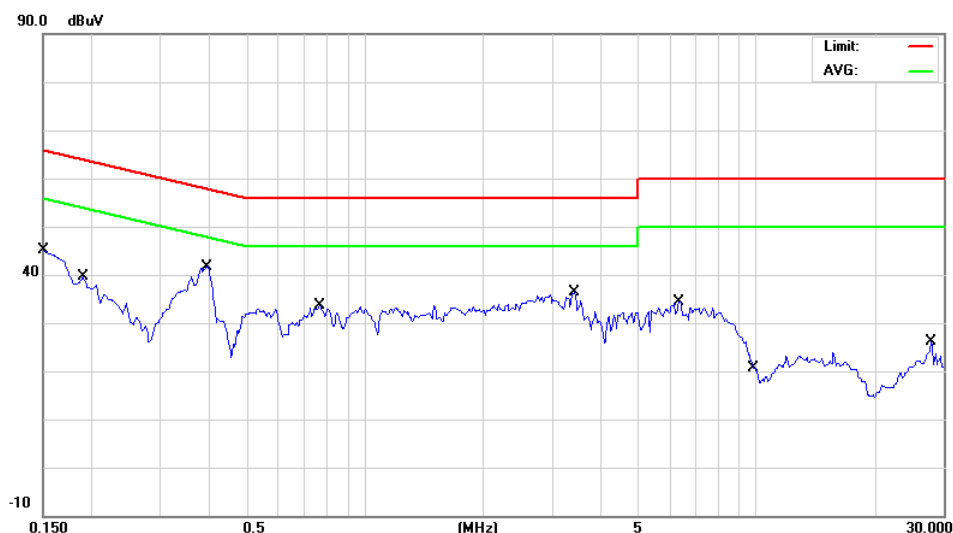
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 44 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
802.11ac - HT20_CH40
(SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.42	0.07	42.49	66.00	-23.51	QP	
	2	0.1500	30.25	0.07	30.32	56.00	-25.68	AVG	
	3	0.1900	37.02	0.01	37.03	64.04	-27.01	QP	
	4	0.1900	25.29	0.01	25.30	54.04	-28.74	AVG	
	5	0.3950	40.00	0.12	40.12	57.96	-17.84	QP	
*	6	0.3950	30.30	0.12	30.42	47.96	-17.54	AVG	
	7	0.7650	31.94	0.08	32.02	56.00	-23.98	QP	
	8	0.7650	22.24	0.08	22.32	46.00	-23.68	AVG	
	9	3.4250	33.36	0.12	33.48	56.00	-22.52	QP	
	10	3.4250	22.24	0.12	22.36	46.00	-23.64	AVG	
	11	6.3500	29.52	0.19	29.71	60.00	-30.29	QP	
	12	6.3500	20.03	0.19	20.22	50.00	-29.78	AVG	
	13	10.0000	14.48	0.32	14.80	60.00	-45.20	QP	
	14	10.0000	8.21	0.32	8.53	50.00	-41.47	AVG	
	15	27.9550	22.62	0.74	23.36	60.00	-36.64	QP	
	16	27.9550	16.56	0.74	17.30	50.00	-32.70	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 45 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

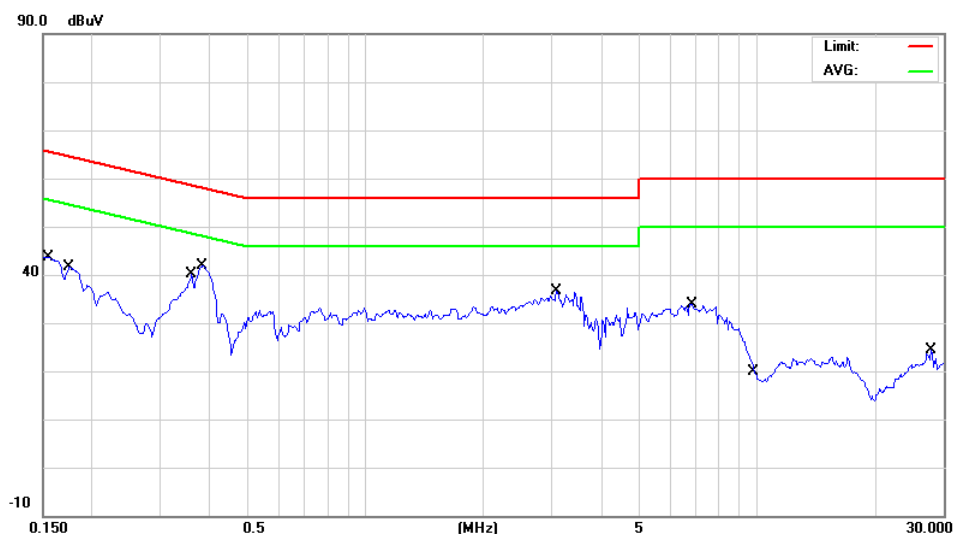
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH48
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	41.96	-0.12	41.84	65.73	-23.89	QP	
	2	0.1550	31.18	-0.12	31.06	55.73	-24.67	AVG	
	3	0.1750	38.86	-0.12	38.74	64.72	-25.98	QP	
	4	0.1750	27.30	-0.12	27.18	54.72	-27.54	AVG	
	5	0.3600	37.84	-0.14	37.70	58.73	-21.03	QP	
	6	0.3600	27.30	-0.14	27.16	48.73	-21.57	AVG	
	7	0.3850	40.18	-0.15	40.03	58.17	-18.14	QP	
*	8	0.3850	33.22	-0.15	33.07	48.17	-15.10	AVG	
	9	3.0800	33.60	0.05	33.65	56.00	-22.35	QP	
	10	3.0800	22.66	0.05	22.71	46.00	-23.29	AVG	
	11	6.8250	29.32	0.14	29.46	60.00	-30.54	QP	
	12	6.8250	19.08	0.14	19.22	50.00	-30.78	AVG	
	13	10.0000	14.46	0.14	14.60	60.00	-45.40	QP	
	14	10.0000	7.87	0.14	8.01	50.00	-41.99	AVG	
	15	27.9450	19.82	0.80	20.62	60.00	-39.38	QP	
	16	27.9450	11.93	0.80	12.73	50.00	-37.27	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

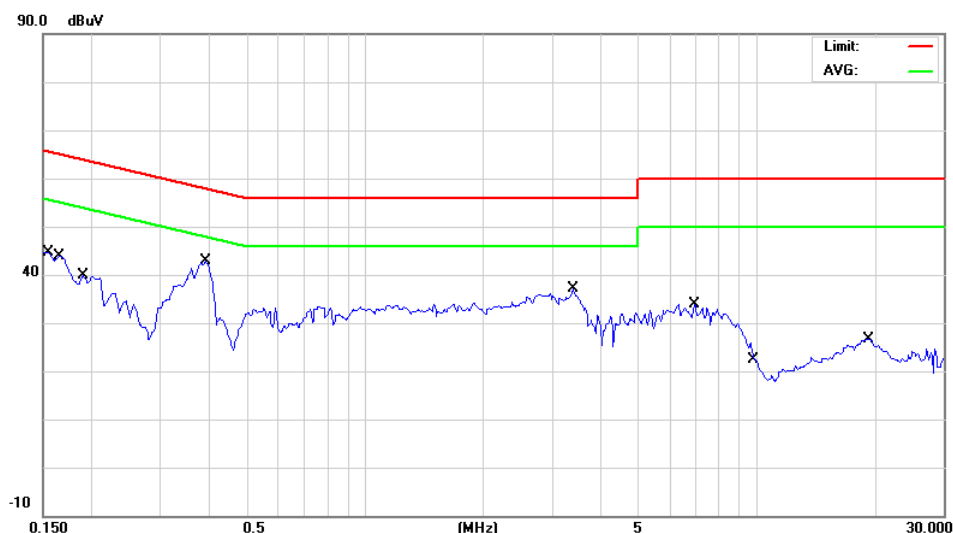
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 46 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH48 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.54	0.06	42.60	65.73	-23.13	QP	
	2	0.1550	32.24	0.06	32.30	55.73	-23.43	AVG	
	3	0.1650	41.30	0.05	41.35	65.21	-23.86	QP	
	4	0.1650	29.09	0.05	29.14	55.21	-26.07	AVG	
	5	0.1904	37.74	0.01	37.75	64.02	-26.27	QP	
	6	0.1904	26.59	0.01	26.60	54.02	-27.42	AVG	
	7	0.3900	41.56	0.11	41.67	58.06	-16.39	QP	
*	8	0.3900	33.97	0.11	34.08	48.06	-13.98	AVG	
	9	3.3950	33.92	0.12	34.04	56.00	-21.96	QP	
	10	3.3950	23.38	0.12	23.50	46.00	-22.50	AVG	
	11	6.9450	29.66	0.21	29.87	60.00	-30.13	QP	
	12	6.9450	20.08	0.21	20.29	50.00	-29.71	AVG	
	13	10.0000	17.94	0.32	18.26	60.00	-41.74	QP	
	14	10.0000	11.56	0.32	11.88	50.00	-38.12	AVG	
	15	19.3850	22.08	0.54	22.62	60.00	-37.38	QP	
	16	19.3850	16.39	0.54	16.93	50.00	-33.07	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 47 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

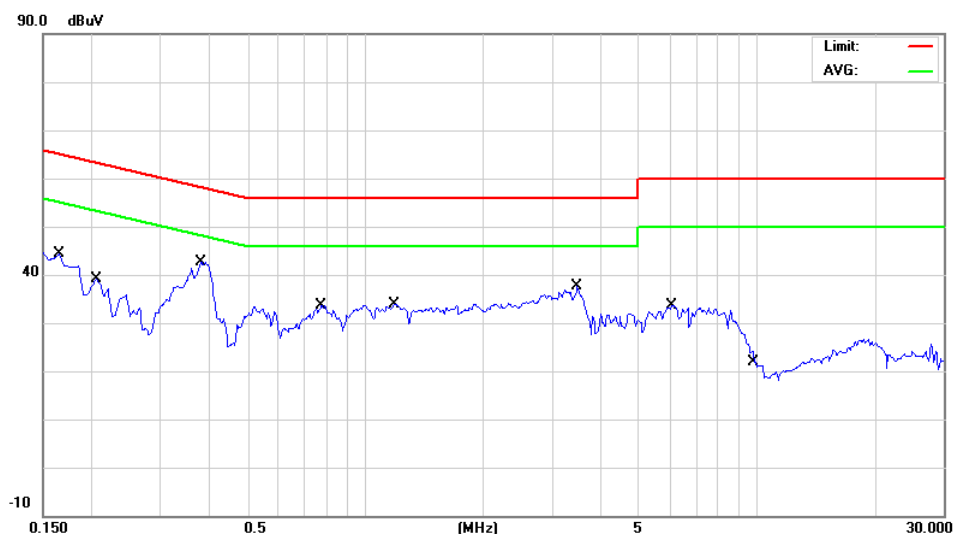
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH36
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	41.30	-0.12	41.18	65.21	-24.03	QP	
	2	0.1650	29.01	-0.12	28.89	55.21	-26.32	AVG	
	3	0.2050	35.54	-0.11	35.43	63.41	-27.98	QP	
	4	0.2050	24.65	-0.11	24.54	53.41	-28.87	AVG	
	5	0.3800	41.74	-0.15	41.59	58.28	-16.69	QP	
*	6	0.3800	33.53	-0.15	33.38	48.28	-14.90	AVG	
	7	0.7750	31.80	-0.08	31.72	56.00	-24.28	QP	
	8	0.7750	23.22	-0.08	23.14	46.00	-22.86	AVG	
	9	1.1900	31.78	-0.06	31.72	56.00	-24.28	QP	
	10	1.1900	22.91	-0.06	22.85	46.00	-23.15	AVG	
	11	3.4750	33.82	0.08	33.90	56.00	-22.10	QP	
	12	3.4750	22.11	0.08	22.19	46.00	-23.81	AVG	
	13	6.0800	29.42	0.15	29.57	60.00	-30.43	QP	
	14	6.0800	19.02	0.15	19.17	50.00	-30.83	AVG	
	15	10.0000	17.92	0.14	18.06	60.00	-41.94	QP	
	16	10.0000	11.41	0.14	11.55	50.00	-38.45	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

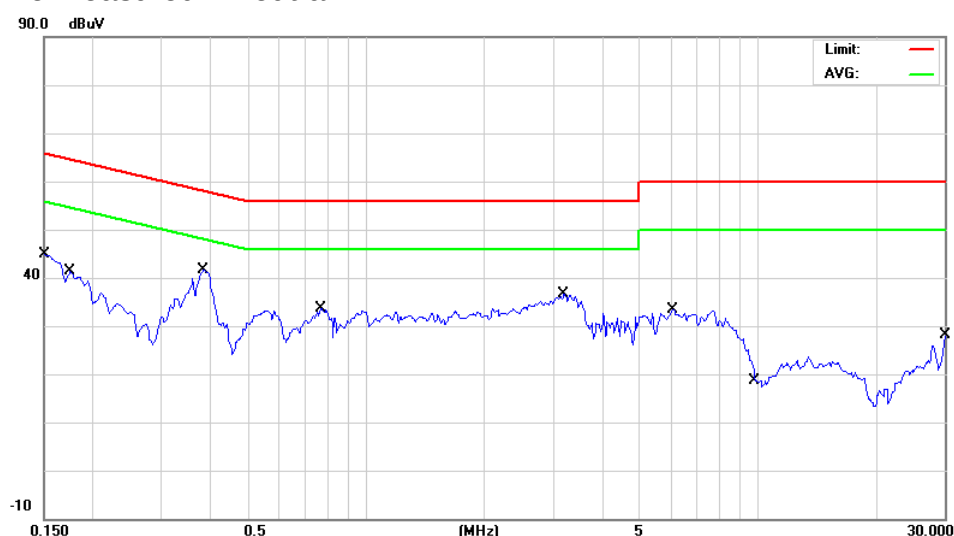
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 48 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH36 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.26	0.07	42.33	66.00	-23.67	QP	
	2	0.1500	30.08	0.07	30.15	56.00	-25.85	AVG	
	3	0.1750	38.74	0.03	38.77	64.72	-25.95	QP	
	4	0.1750	27.20	0.03	27.23	54.72	-27.49	AVG	
	5	0.3850	40.06	0.11	40.17	58.17	-18.00	QP	
*	6	0.3850	33.07	0.11	33.18	48.17	-14.99	AVG	
	7	0.7650	31.74	0.08	31.82	56.00	-24.18	QP	
	8	0.7650	22.07	0.08	22.15	46.00	-23.85	AVG	
	9	3.2000	33.62	0.13	33.75	56.00	-22.25	QP	
	10	3.2000	22.58	0.13	22.71	46.00	-23.29	AVG	
	11	6.0850	29.38	0.19	29.57	60.00	-30.43	QP	
	12	6.0850	19.91	0.19	20.10	50.00	-29.90	AVG	
	13	10.0000	14.34	0.32	14.66	60.00	-45.34	QP	
	14	10.0000	8.15	0.32	8.47	50.00	-41.53	AVG	
	15	30.0000	18.68	0.79	19.47	60.00	-40.53	QP	
	16	30.0000	10.03	0.79	10.82	50.00	-39.18	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

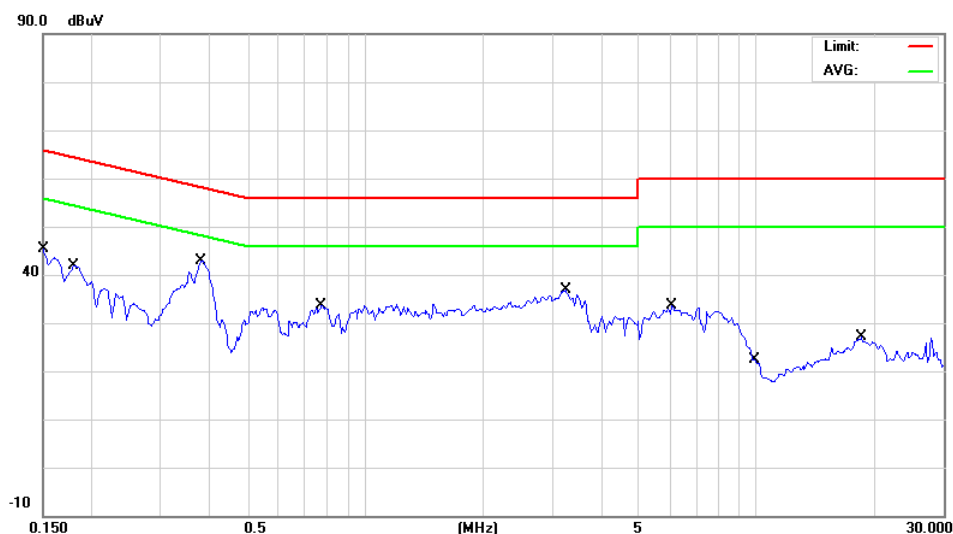
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 49 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.1G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT20_CH40 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.62	-0.12	42.50	66.00	-23.50	QP	
	2	0.1500	30.98	-0.12	30.86	56.00	-25.14	AVG	
	3	0.1800	38.90	-0.11	38.79	64.49	-25.70	QP	
	4	0.1800	28.43	-0.11	28.32	54.49	-26.17	AVG	
	5	0.3800	41.58	-0.15	41.43	58.28	-16.85	QP	
*	6	0.3800	33.30	-0.15	33.15	48.28	-15.13	AVG	
	7	0.7750	31.66	-0.08	31.58	56.00	-24.42	QP	
	8	0.7750	23.15	-0.08	23.07	46.00	-22.93	AVG	
	9	3.2450	32.74	0.06	32.80	56.00	-23.20	QP	
	10	3.2450	22.07	0.06	22.13	46.00	-23.87	AVG	
	11	6.0600	29.52	0.15	29.67	60.00	-30.33	QP	
	12	6.0600	19.68	0.15	19.83	50.00	-30.17	AVG	
	13	10.0000	18.00	0.14	18.14	60.00	-41.86	QP	
	14	10.0000	11.49	0.14	11.63	50.00	-38.37	AVG	
	15	18.5800	21.72	0.46	22.18	60.00	-37.82	QP	
	16	18.5800	15.68	0.46	16.14	50.00	-33.86	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

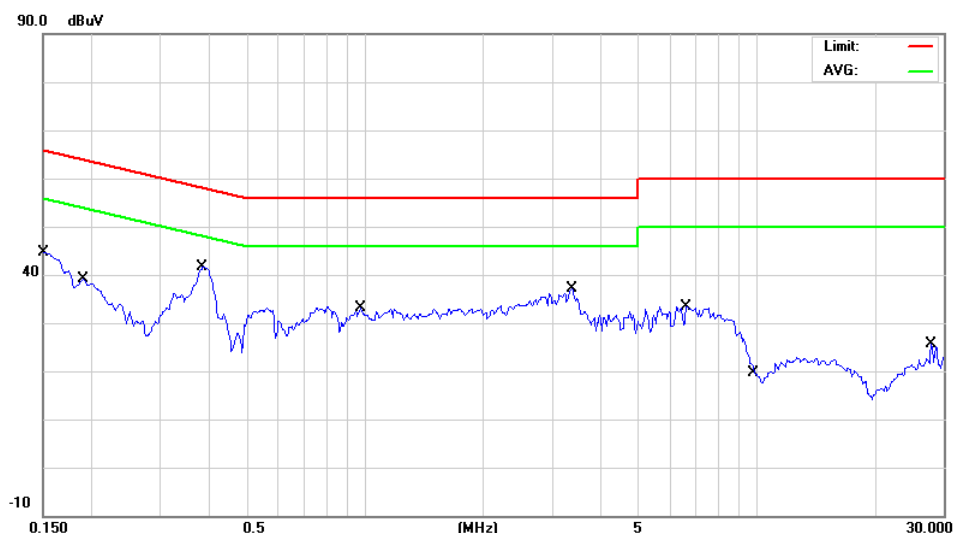
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 50 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH40 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.22	0.07	42.29	66.00	-23.71	QP	
	2	0.1500	30.19	0.07	30.26	56.00	-25.74	AVG	
	3	0.1900	36.78	0.01	36.79	64.04	-27.25	QP	
	4	0.1900	25.10	0.01	25.11	54.04	-28.93	AVG	
	5	0.3850	40.06	0.11	40.17	58.17	-18.00	QP	
*	6	0.3850	32.99	0.11	33.10	48.17	-15.07	AVG	
	7	0.9700	31.24	0.04	31.28	56.00	-24.72	QP	
	8	0.9700	22.11	0.04	22.15	46.00	-23.85	AVG	
	9	3.3750	34.16	0.12	34.28	56.00	-21.72	QP	
	10	3.3750	23.38	0.12	23.50	46.00	-22.50	AVG	
	11	6.6200	29.88	0.20	30.08	60.00	-29.92	QP	
	12	6.6200	21.03	0.20	21.23	50.00	-28.77	AVG	
	13	10.0000	14.56	0.32	14.88	60.00	-45.12	QP	
	14	10.0000	8.15	0.32	8.47	50.00	-41.53	AVG	
	15	27.9550	22.74	0.74	23.48	60.00	-36.52	QP	
	16	27.9550	16.81	0.74	17.55	50.00	-32.45	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 51 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

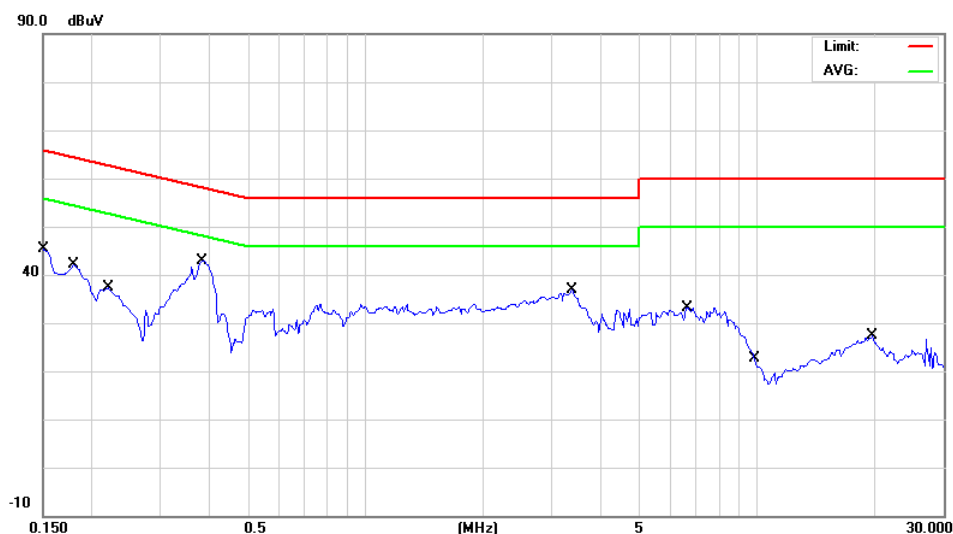
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH48
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.86	-0.12	42.74	66.00	-23.26	QP	
	2	0.1500	31.28	-0.12	31.16	56.00	-24.84	AVG	
	3	0.1800	39.16	-0.11	39.05	64.49	-25.44	QP	
	4	0.1800	28.68	-0.11	28.57	54.49	-25.92	AVG	
	5	0.2200	34.10	-0.11	33.99	62.82	-28.83	QP	
	6	0.2200	23.30	-0.11	23.19	52.82	-29.63	AVG	
	7	0.3850	41.76	-0.15	41.61	58.17	-16.56	QP	
*	8	0.3850	34.72	-0.15	34.57	48.17	-13.60	AVG	
	9	3.3750	34.32	0.07	34.39	56.00	-21.61	QP	
	10	3.3750	24.04	0.07	24.11	46.00	-21.89	AVG	
	11	6.6500	28.54	0.14	28.68	60.00	-31.32	QP	
	12	6.6500	17.88	0.14	18.02	50.00	-31.98	AVG	
	13	10.0000	17.82	0.14	17.96	60.00	-42.04	QP	
	14	10.0000	11.64	0.14	11.78	50.00	-38.22	AVG	
	15	19.7750	22.32	0.51	22.83	60.00	-37.17	QP	
	16	19.7750	17.13	0.51	17.64	50.00	-32.36	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 52 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

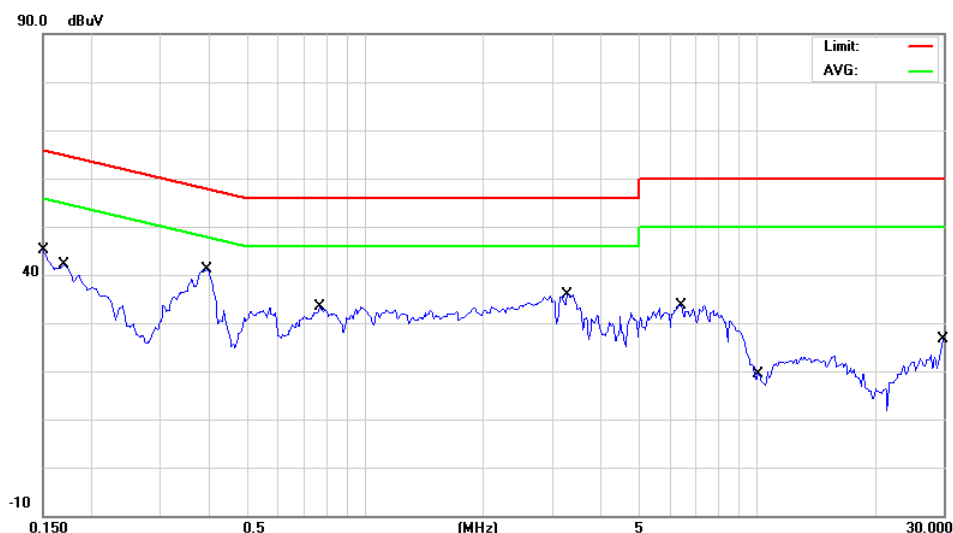
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.1G
802.11ac - HT20_CH48
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.08	0.07	42.15	66.00	-23.85	QP	
	2	0.1500	30.03	0.07	30.10	56.00	-25.90	AVG	
	3	0.1700	38.96	0.04	39.00	64.96	-25.96	QP	
	4	0.1700	26.43	0.04	26.47	54.96	-28.49	AVG	
	5	0.3950	39.62	0.12	39.74	57.96	-18.22	QP	
*	6	0.3950	30.03	0.12	30.15	47.96	-17.81	AVG	
	7	0.7650	31.60	0.08	31.68	56.00	-24.32	QP	
	8	0.7650	21.80	0.08	21.88	46.00	-24.12	AVG	
	9	3.2900	33.32	0.13	33.45	56.00	-22.55	QP	
	10	3.2900	22.50	0.13	22.63	46.00	-23.37	AVG	
	11	6.3859	29.12	0.20	29.32	60.00	-30.68	QP	
	12	6.3859	19.45	0.20	19.65	50.00	-30.35	AVG	
	13	10.0000	14.58	0.32	14.90	60.00	-45.10	QP	
	14	10.0000	7.99	0.32	8.31	50.00	-41.69	AVG	
	15	29.9900	17.90	0.79	18.69	60.00	-41.31	QP	
	16	29.9900	9.76	0.79	10.55	50.00	-39.45	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 53 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.1G

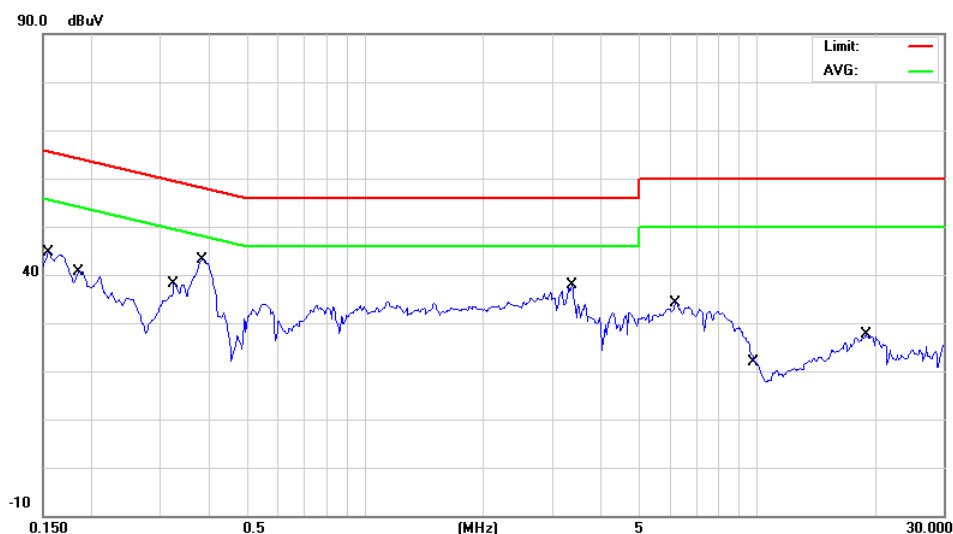
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT40_CH38
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.78	-0.12	42.66	65.73	-23.07	QP	
	2	0.1550	32.50	-0.12	32.38	55.73	-23.35	AVG	
	3	0.1850	38.60	-0.11	38.49	64.26	-25.77	QP	
	4	0.1850	27.72	-0.11	27.61	54.26	-26.65	AVG	
	5	0.3250	35.92	-0.13	35.79	59.58	-23.79	QP	
	6	0.3250	27.30	-0.13	27.17	49.58	-22.41	AVG	
	7	0.3850	41.86	-0.15	41.71	58.17	-16.46	QP	
*	8	0.3850	34.91	-0.15	34.76	48.17	-13.41	AVG	
	9	3.3750	34.68	0.07	34.75	56.00	-21.25	QP	
	10	3.3750	23.97	0.07	24.04	46.00	-21.96	AVG	
	11	6.2050	29.06	0.14	29.20	60.00	-30.80	QP	
	12	6.2050	18.36	0.14	18.50	50.00	-31.50	AVG	
	13	10.0000	18.04	0.14	18.18	60.00	-41.82	QP	
	14	10.0000	11.56	0.14	11.70	50.00	-38.30	AVG	
	15	19.0400	22.50	0.49	22.99	60.00	-37.01	QP	
	16	19.0400	16.81	0.49	17.30	50.00	-32.70	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

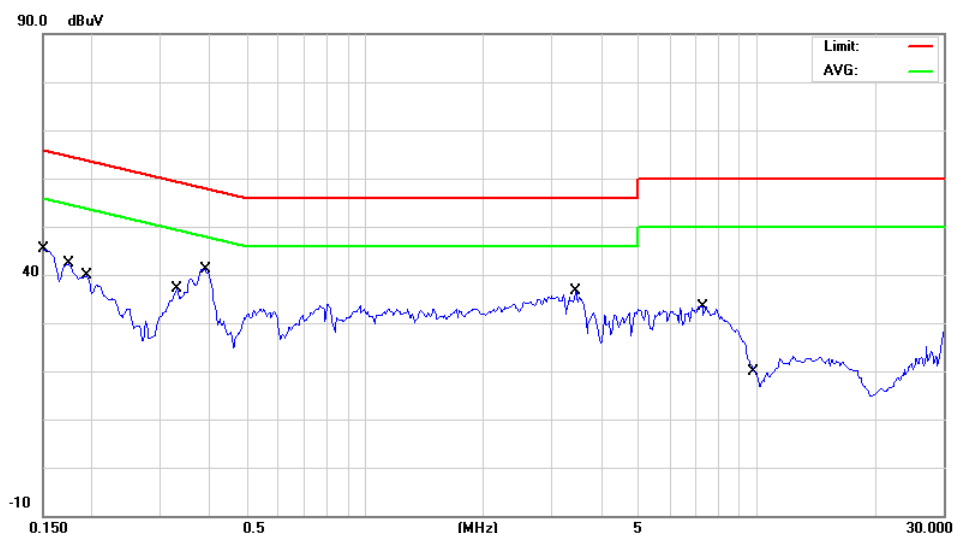
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 54 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH38 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.36	0.07	42.43	66.00	-23.57	QP	
	2	0.1500	30.46	0.07	30.53	56.00	-25.47	AVG	
	3	0.1750	38.80	0.03	38.83	64.72	-25.89	QP	
	4	0.1750	27.35	0.03	27.38	54.72	-27.34	AVG	
	5	0.1950	35.78	0.00	35.78	63.82	-28.04	QP	
	6	0.1950	23.90	0.00	23.90	53.82	-29.92	AVG	
	7	0.3300	33.56	0.07	33.63	59.45	-25.82	QP	
	8	0.3300	24.97	0.07	25.04	49.45	-24.41	AVG	
	9	0.3900	40.02	0.11	40.13	58.06	-17.93	QP	
*	10	0.3900	32.50	0.11	32.61	48.06	-15.45	AVG	
	11	3.4450	33.80	0.12	33.92	56.00	-22.08	QP	
	12	3.4450	22.02	0.12	22.14	46.00	-23.86	AVG	
	13	7.2550	28.80	0.22	29.02	60.00	-30.98	QP	
	14	7.2550	19.51	0.22	19.73	50.00	-30.27	AVG	
	15	10.0000	14.36	0.32	14.68	60.00	-45.32	QP	
	16	10.0000	7.82	0.32	8.14	50.00	-41.86	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

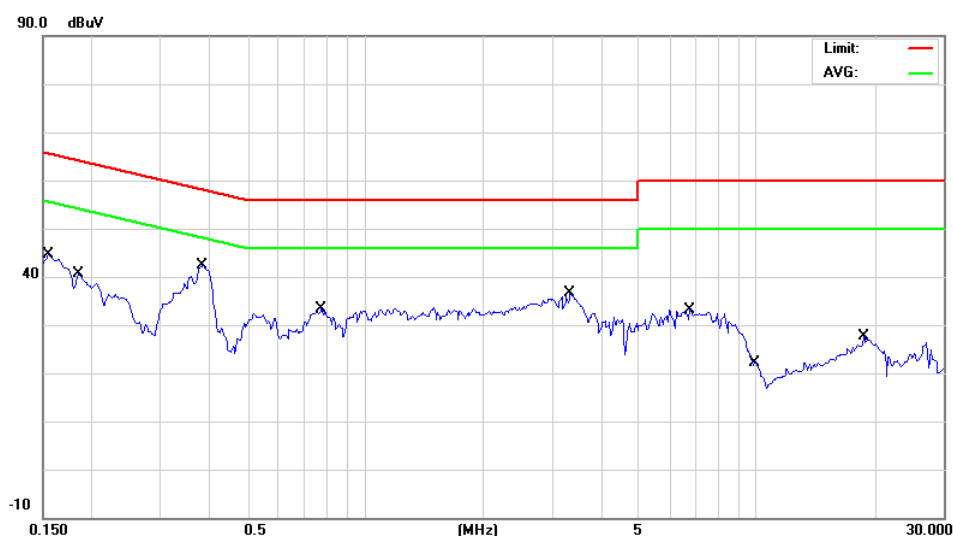
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 55 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.1G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT40_CH46 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.14	-0.12	42.02	65.73	-23.71	QP	
	2	0.1550	31.89	-0.12	31.77	55.73	-23.96	AVG	
	3	0.1850	38.00	-0.11	37.89	64.26	-26.37	QP	
	4	0.1850	27.20	-0.11	27.09	54.26	-27.17	AVG	
	5	0.3850	41.28	-0.15	41.13	58.17	-17.04	QP	
*	6	0.3850	34.38	-0.15	34.23	48.17	-13.94	AVG	
	7	0.7750	31.52	-0.08	31.44	56.00	-24.56	QP	
	8	0.7750	22.91	-0.08	22.83	46.00	-23.17	AVG	
	9	3.3350	33.78	0.07	33.85	56.00	-22.15	QP	
	10	3.3350	22.33	0.07	22.40	46.00	-23.60	AVG	
	11	6.7600	29.26	0.14	29.40	60.00	-30.60	QP	
	12	6.7600	20.25	0.14	20.39	50.00	-29.61	AVG	
	13	10.0000	17.68	0.14	17.82	60.00	-42.18	QP	
	14	10.0000	11.34	0.14	11.48	50.00	-38.52	AVG	
	15	18.7700	22.06	0.48	22.54	60.00	-37.46	QP	
	16	18.7700	16.05	0.48	16.53	50.00	-33.47	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

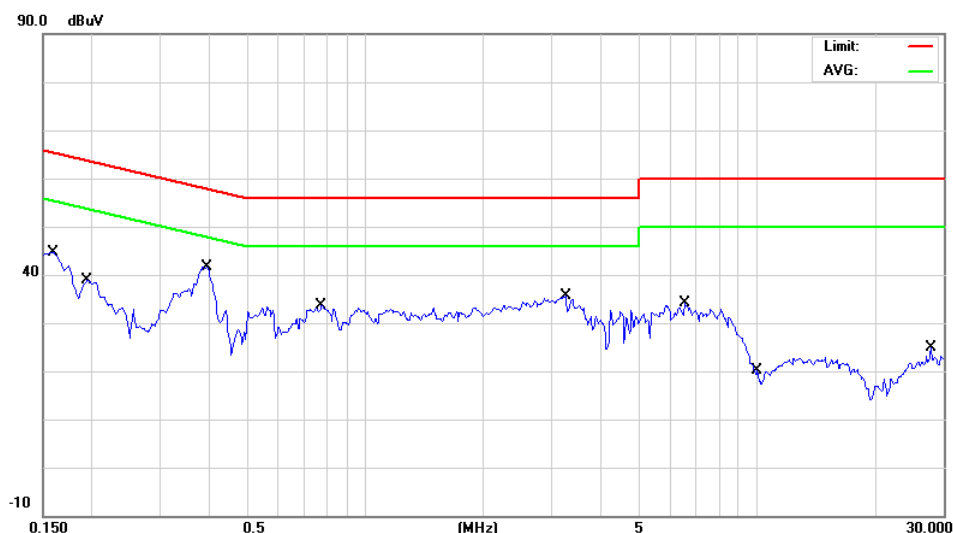
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 56 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH46 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1590	41.44	0.06	41.50	65.52	-24.02	QP	
	2	0.1590	30.67	0.06	30.73	55.52	-24.79	AVG	
	3	0.1950	35.68	0.00	35.68	63.82	-28.14	QP	
	4	0.1950	23.75	0.00	23.75	53.82	-30.07	AVG	
	5	0.3950	39.86	0.12	39.98	57.96	-17.98	QP	
*	6	0.3950	30.19	0.12	30.31	47.96	-17.65	AVG	
	7	0.7750	31.46	0.07	31.53	56.00	-24.47	QP	
	8	0.7750	22.58	0.07	22.65	46.00	-23.35	AVG	
	9	3.2450	32.78	0.13	32.91	56.00	-23.09	QP	
	10	3.2450	21.42	0.13	21.55	46.00	-24.45	AVG	
	11	6.5400	29.34	0.20	29.54	60.00	-30.46	QP	
	12	6.5400	19.02	0.20	19.22	50.00	-30.78	AVG	
	13	10.0000	14.46	0.32	14.78	60.00	-45.22	QP	
	14	10.0000	8.15	0.32	8.47	50.00	-41.53	AVG	
	15	27.9500	22.54	0.74	23.28	60.00	-36.72	QP	
	16	27.9500	17.43	0.74	18.17	50.00	-31.83	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 57 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

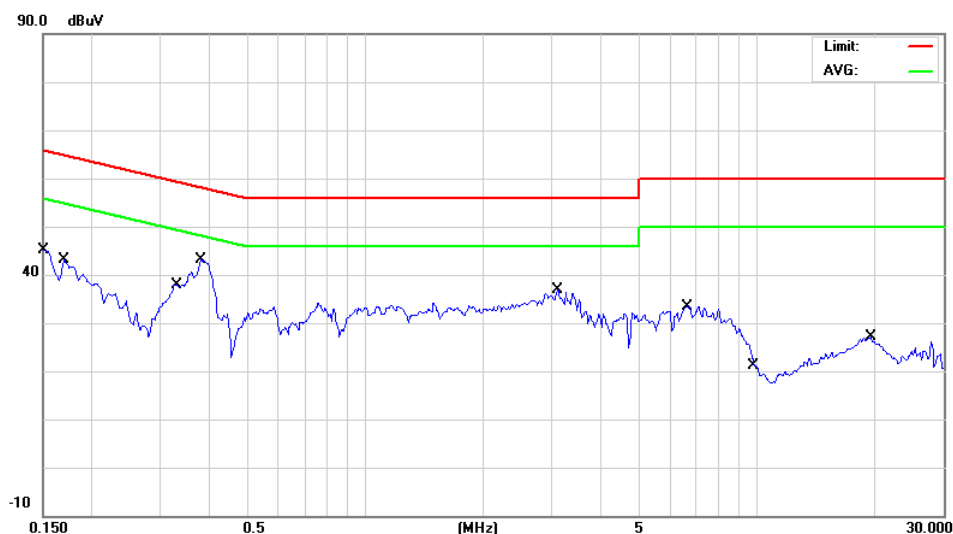
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT40_CH38
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.64	-0.12	42.52	66.00	-23.48	QP	
	2	0.1500	31.08	-0.12	30.96	56.00	-25.04	AVG	
	3	0.1700	39.58	-0.12	39.46	64.96	-25.50	QP	
	4	0.1700	27.68	-0.12	27.56	54.96	-27.40	AVG	
	5	0.3300	35.82	-0.14	35.68	59.45	-23.77	QP	
	6	0.3300	27.05	-0.14	26.91	49.45	-22.54	AVG	
	7	0.3800	41.62	-0.15	41.47	58.28	-16.81	QP	
*	8	0.3800	33.38	-0.15	33.23	48.28	-15.05	AVG	
	9	3.1050	33.98	0.05	34.03	56.00	-21.97	QP	
	10	3.1050	23.45	0.05	23.50	46.00	-22.50	AVG	
	11	6.6350	29.44	0.14	29.58	60.00	-30.42	QP	
	12	6.6350	20.78	0.14	20.92	50.00	-29.08	AVG	
	13	10.0000	17.22	0.14	17.36	60.00	-42.64	QP	
	14	10.0000	10.62	0.14	10.76	50.00	-39.24	AVG	
	15	19.5800	22.68	0.51	23.19	60.00	-36.81	QP	
	16	19.5800	17.05	0.51	17.56	50.00	-32.44	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

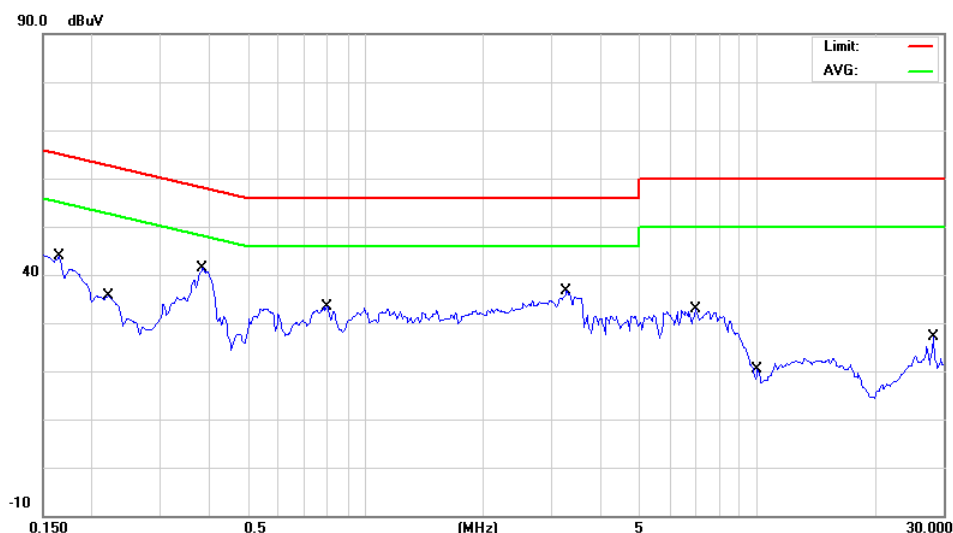
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 58 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH38 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	40.00	0.05	40.05	65.21	-25.16	QP	
	2	0.1650	27.25	0.05	27.30	55.21	-27.91	AVG	
	3	0.2200	32.14	0.00	32.14	62.82	-30.68	QP	
	4	0.2200	20.19	0.00	20.19	52.82	-32.63	AVG	
	5	0.3850	39.72	0.11	39.83	58.17	-18.34	QP	
*	6	0.3850	32.41	0.11	32.52	48.17	-15.65	AVG	
	7	0.8000	31.04	0.07	31.11	56.00	-24.89	QP	
	8	0.8000	20.88	0.07	20.95	46.00	-25.05	AVG	
	9	3.2750	32.56	0.13	32.69	56.00	-23.31	QP	
	10	3.2750	20.62	0.13	20.75	46.00	-25.25	AVG	
	11	6.9850	28.14	0.21	28.35	60.00	-31.65	QP	
	12	6.9850	18.95	0.21	19.16	50.00	-30.84	AVG	
	13	10.0000	13.78	0.32	14.10	60.00	-45.90	QP	
	14	10.0000	7.29	0.32	7.61	50.00	-42.39	AVG	
	15	28.2950	17.50	0.74	18.24	60.00	-41.76	QP	
	16	28.2950	10.71	0.74	11.45	50.00	-38.55	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 59 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

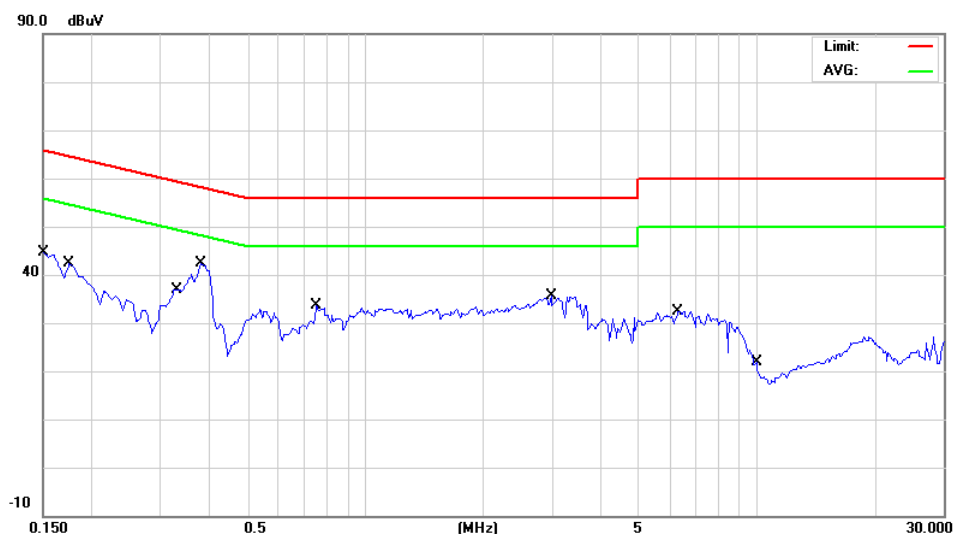
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT40_CH46
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	41.96	-0.12	41.84	66.00	-24.16	QP	
	2	0.1500	30.52	-0.12	30.40	56.00	-25.60	AVG	
	3	0.1750	38.50	-0.12	38.38	64.72	-26.34	QP	
	4	0.1750	27.82	-0.12	27.70	54.72	-27.02	AVG	
	5	0.3300	35.40	-0.14	35.26	59.45	-24.19	QP	
	6	0.3300	26.48	-0.14	26.34	49.45	-23.11	AVG	
	7	0.3800	41.04	-0.15	40.89	58.28	-17.39	QP	
*	8	0.3800	32.83	-0.15	32.68	48.28	-15.60	AVG	
	9	0.7500	31.08	-0.09	30.99	56.00	-25.01	QP	
	10	0.7500	22.15	-0.09	22.06	46.00	-23.94	AVG	
	11	2.9850	32.78	0.03	32.81	56.00	-23.19	QP	
	12	2.9850	22.50	0.03	22.53	46.00	-23.47	AVG	
	13	6.3000	27.90	0.14	28.04	60.00	-31.96	QP	
	14	6.3000	17.51	0.14	17.65	50.00	-32.35	AVG	
	15	10.0000	16.92	0.14	17.06	60.00	-42.94	QP	
	16	10.0000	10.29	0.14	10.43	50.00	-39.57	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

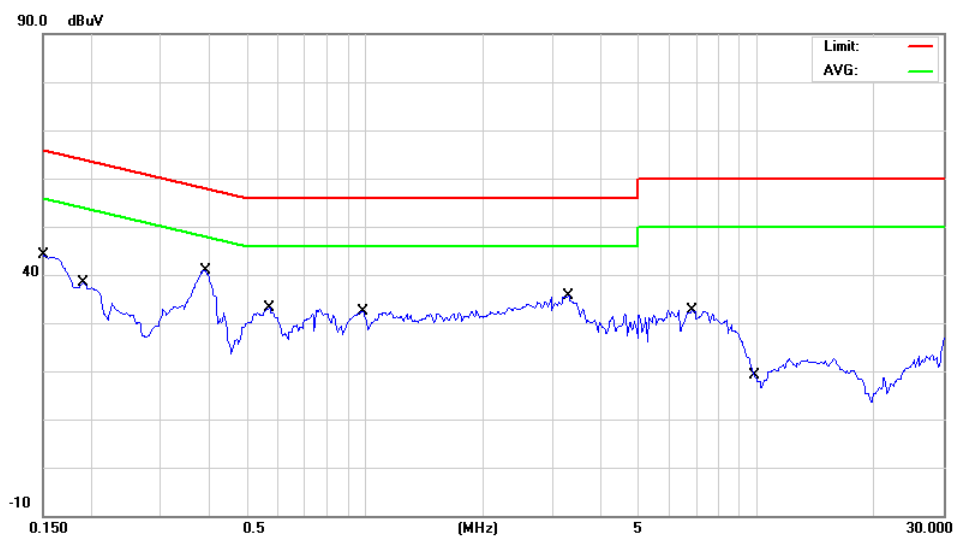
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 60 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH46 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	41.38	0.07	41.45	66.00	-24.55	QP	
	2	0.1500	29.55	0.07	29.62	56.00	-26.38	AVG	
	3	0.1900	35.84	0.01	35.85	64.04	-28.19	QP	
	4	0.1900	24.04	0.01	24.05	54.04	-29.99	AVG	
	5	0.3900	39.06	0.11	39.17	58.06	-18.89	QP	
*	6	0.3900	31.33	0.11	31.44	48.06	-16.62	AVG	
	7	0.5700	30.70	0.09	30.79	56.00	-25.21	QP	
	8	0.5700	19.80	0.09	19.89	46.00	-26.11	AVG	
	9	0.9850	30.72	0.04	30.76	56.00	-25.24	QP	
	10	0.9850	20.62	0.04	20.66	46.00	-25.34	AVG	
	11	3.3100	33.30	0.12	33.42	56.00	-22.58	QP	
	12	3.3100	22.50	0.12	22.62	46.00	-23.38	AVG	
	13	6.8250	28.34	0.21	28.55	60.00	-31.45	QP	
	14	6.8250	18.70	0.21	18.91	50.00	-31.09	AVG	
	15	10.0000	13.96	0.32	14.28	60.00	-45.72	QP	
	16	10.0000	7.64	0.32	7.96	50.00	-42.04	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

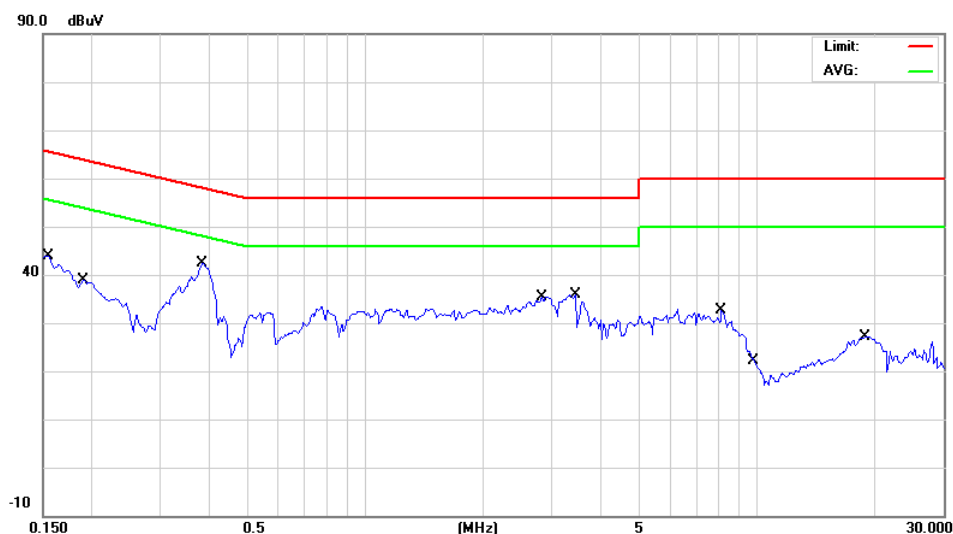
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 61 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.1G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT80_CH42 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	41.76	-0.12	41.64	65.73	-24.09	QP	
	2	0.1550	31.56	-0.12	31.44	55.73	-24.29	AVG	
	3	0.1900	36.80	-0.11	36.69	64.04	-27.35	QP	
	4	0.1900	25.76	-0.11	25.65	54.04	-28.39	AVG	
	5	0.3850	41.18	-0.15	41.03	58.17	-17.14	QP	
*	6	0.3850	33.97	-0.15	33.82	48.17	-14.35	AVG	
	7	2.8250	31.92	0.02	31.94	56.00	-24.06	QP	
	8	2.8250	22.24	0.02	22.26	46.00	-23.74	AVG	
	9	3.4450	33.06	0.08	33.14	56.00	-22.86	QP	
	10	3.4450	21.56	0.08	21.64	46.00	-24.36	AVG	
	11	8.1400	27.14	0.14	27.28	60.00	-32.72	QP	
	12	8.1400	18.57	0.14	18.71	50.00	-31.29	AVG	
	13	10.0000	17.10	0.14	17.24	60.00	-42.76	QP	
	14	10.0000	10.71	0.14	10.85	50.00	-39.15	AVG	
	15	18.9950	22.56	0.48	23.04	60.00	-36.96	QP	
	16	18.9950	16.81	0.48	17.29	50.00	-32.71	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

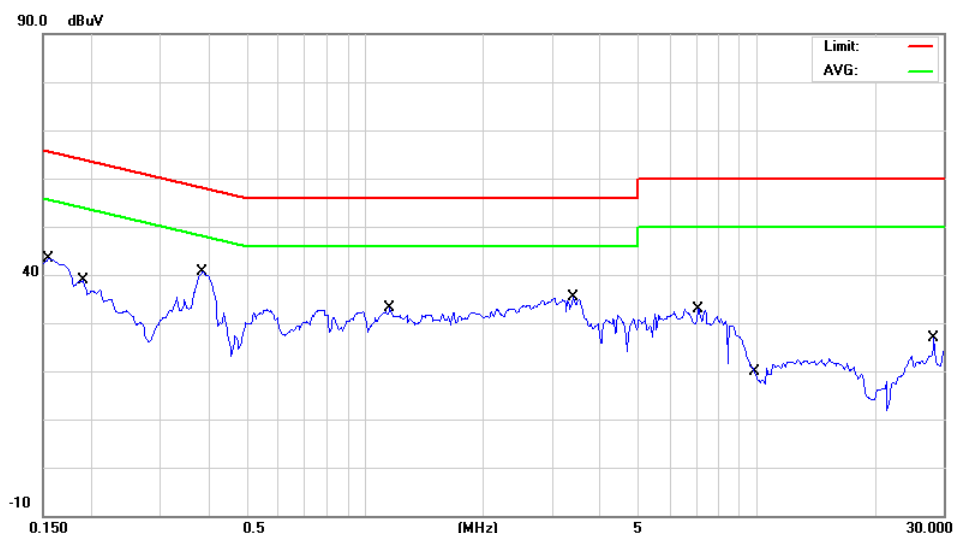
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 62 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.1G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT80_CH42 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	41.18	0.06	41.24	65.73	-24.49	QP	
	2	0.1550	30.46	0.06	30.52	55.73	-25.21	AVG	
	3	0.1900	35.98	0.01	35.99	64.04	-28.05	QP	
	4	0.1900	24.11	0.01	24.12	54.04	-29.92	AVG	
	5	0.3850	39.52	0.11	39.63	58.17	-18.54	QP	
*	6	0.3850	32.11	0.11	32.22	48.17	-15.95	AVG	
	7	1.1550	29.72	0.06	29.78	56.00	-26.22	QP	
	8	1.1550	18.70	0.06	18.76	46.00	-27.24	AVG	
	9	3.3950	33.22	0.12	33.34	56.00	-22.66	QP	
	10	3.3950	22.66	0.12	22.78	46.00	-23.22	AVG	
	11	7.0900	28.12	0.21	28.33	60.00	-31.67	QP	
	12	7.0900	18.09	0.21	18.30	50.00	-31.70	AVG	
	13	10.0000	13.80	0.32	14.12	60.00	-45.88	QP	
	14	10.0000	7.59	0.32	7.91	50.00	-42.09	AVG	
	15	28.3250	21.06	0.74	21.80	60.00	-38.20	QP	
	16	28.3250	12.61	0.74	13.35	50.00	-36.65	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 63 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

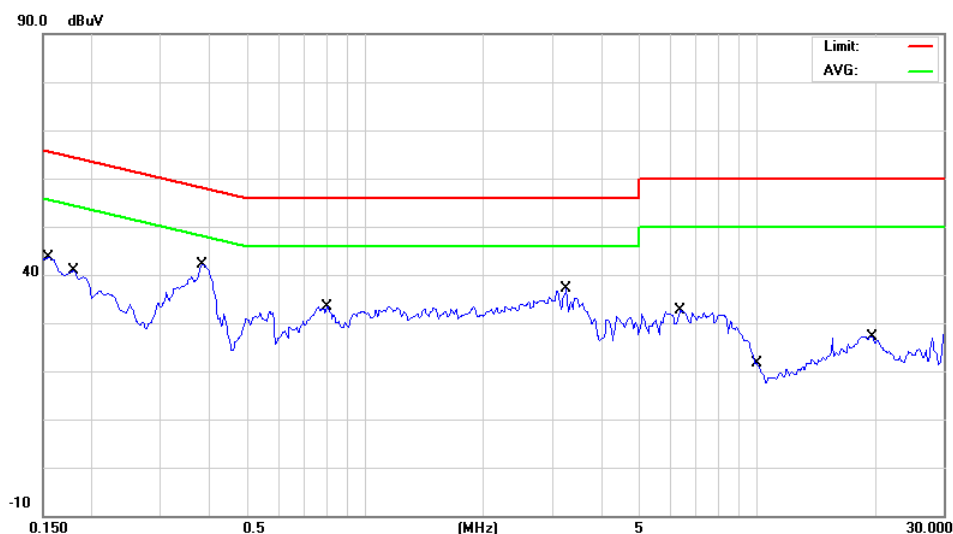
5.1G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT80_CH42
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	41.94	-0.12	41.82	65.73	-23.91	QP	
	2	0.1550	31.70	-0.12	31.58	55.73	-24.15	AVG	
	3	0.1800	38.34	-0.11	38.23	64.49	-26.26	QP	
	4	0.1800	27.86	-0.11	27.75	54.49	-26.74	AVG	
	5	0.3850	41.24	-0.15	41.09	58.17	-17.08	QP	
*	6	0.3850	34.04	-0.15	33.89	48.17	-14.28	AVG	
	7	0.8000	31.04	-0.08	30.96	56.00	-25.04	QP	
	8	0.8000	21.18	-0.08	21.10	46.00	-24.90	AVG	
	9	3.2600	33.56	0.06	33.62	56.00	-22.38	QP	
	10	3.2600	22.66	0.06	22.72	46.00	-23.28	AVG	
	11	6.3800	28.12	0.14	28.26	60.00	-31.74	QP	
	12	6.3800	19.27	0.14	19.41	50.00	-30.59	AVG	
	13	10.0000	17.18	0.14	17.32	60.00	-42.68	QP	
	14	10.0000	10.71	0.14	10.85	50.00	-39.15	AVG	
	15	19.7850	22.58	0.51	23.09	60.00	-36.91	QP	
	16	19.7850	17.13	0.51	17.64	50.00	-32.36	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 64 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

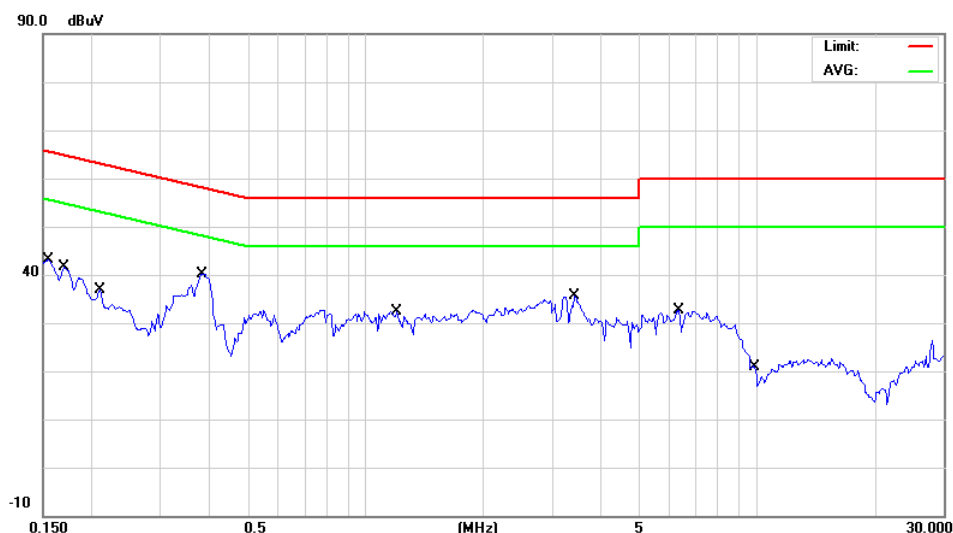
Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.1G
802.11ac - HT80_CH42
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	41.02	0.06	41.08	65.73	-24.65	QP	
	2	0.1550	30.30	0.06	30.36	55.73	-25.37	AVG	
	3	0.1700	38.22	0.04	38.26	64.96	-26.70	QP	
	4	0.1700	25.70	0.04	25.74	54.96	-29.22	AVG	
	5	0.2100	32.84	0.00	32.84	63.21	-30.37	QP	
	6	0.2100	20.83	0.00	20.83	53.21	-32.38	AVG	
	7	0.3850	39.36	0.11	39.47	58.17	-18.70	QP	
*	8	0.3850	31.98	0.11	32.09	48.17	-16.08	AVG	
	9	1.2050	30.04	0.06	30.10	56.00	-25.90	QP	
	10	1.2050	19.86	0.06	19.92	46.00	-26.08	AVG	
	11	3.4250	32.48	0.12	32.60	56.00	-23.40	QP	
	12	3.4250	21.23	0.12	21.35	46.00	-24.65	AVG	
	13	6.3200	28.60	0.19	28.79	60.00	-31.21	QP	
	14	6.3200	18.57	0.19	18.76	50.00	-31.24	AVG	
	15	10.0000	13.96	0.32	14.28	60.00	-45.72	QP	
	16	10.0000	7.53	0.32	7.85	50.00	-42.15	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

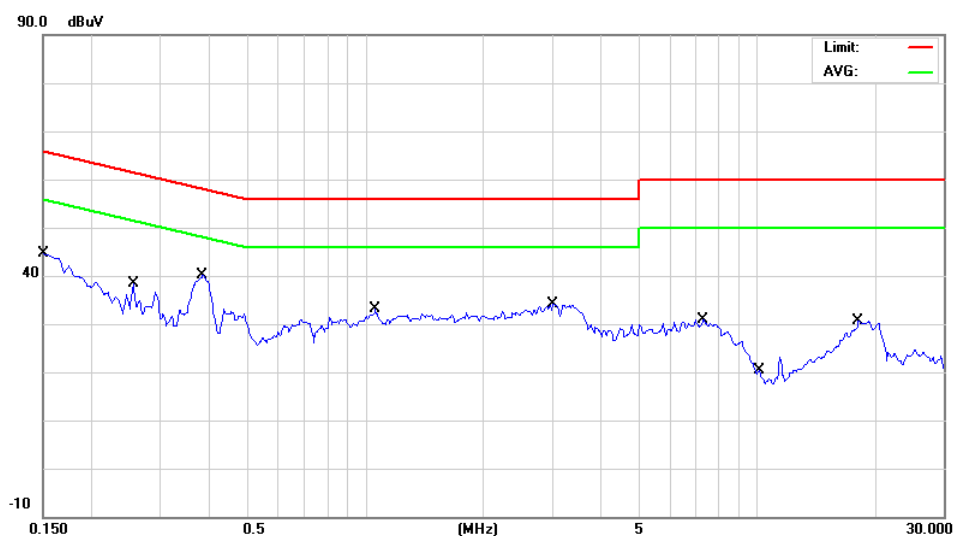
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 65 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.8G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH149
			Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.32	-0.12	42.20	66.00	-23.80	QP	
	2	0.1500	28.60	-0.12	28.48	56.00	-27.52	AVG	
	3	0.2550	30.62	-0.12	30.50	61.59	-31.09	QP	
	4	0.2550	20.30	-0.12	20.18	51.59	-31.41	AVG	
	5	0.3850	38.90	-0.15	38.75	58.17	-19.42	QP	
*	6	0.3850	30.41	-0.15	30.26	48.17	-17.91	AVG	
	7	1.0650	29.80	-0.05	29.75	56.00	-26.25	QP	
	8	1.0650	19.86	-0.05	19.81	46.00	-26.19	AVG	
	9	3.0100	30.06	0.04	30.10	56.00	-25.90	QP	
	10	3.0100	22.07	0.04	22.11	46.00	-23.89	AVG	
	11	7.3250	26.24	0.13	26.37	60.00	-33.63	QP	
	12	7.3250	19.33	0.13	19.46	50.00	-30.54	AVG	
	13	10.0000	16.98	0.14	17.12	60.00	-42.88	QP	
	14	10.0000	11.71	0.14	11.85	50.00	-38.15	AVG	
	15	18.1550	25.00	0.45	25.45	60.00	-34.55	QP	
	16	18.1550	19.57	0.45	20.02	50.00	-29.98	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 66 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

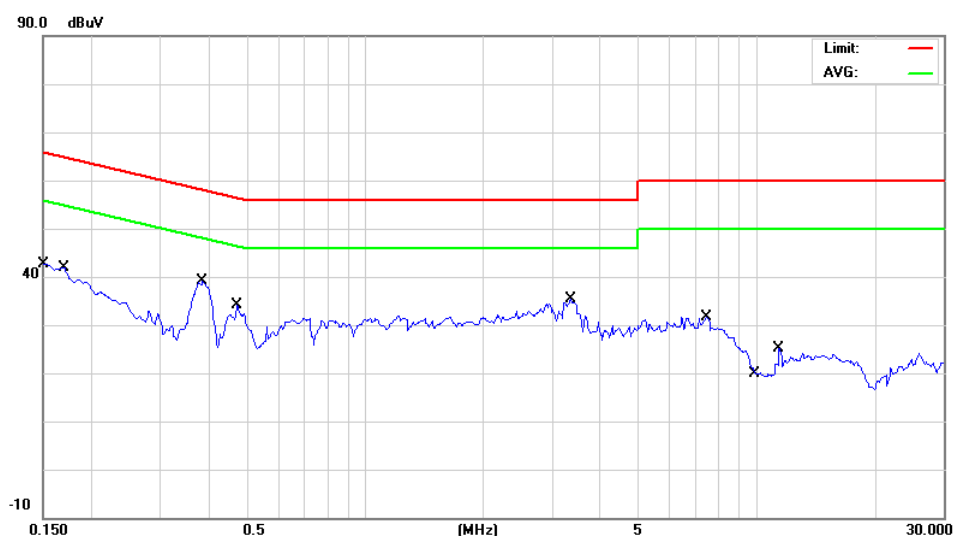
Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.8G
802.11a_CH149

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.02	0.07	42.09	66.00	-23.91	QP	
	2	0.1500	27.95	0.07	28.02	56.00	-27.98	AVG	
	3	0.1700	39.26	0.04	39.30	64.96	-25.66	QP	
	4	0.1700	26.95	0.04	26.99	54.96	-27.97	AVG	
	5	0.3850	37.48	0.11	37.59	58.17	-20.58	QP	
*	6	0.3850	28.85	0.11	28.96	48.17	-19.21	AVG	
	7	0.4700	29.12	0.11	29.23	56.51	-27.28	QP	
	8	0.4700	20.25	0.11	20.36	46.51	-26.15	AVG	
	9	3.3500	31.12	0.12	31.24	56.00	-24.76	QP	
	10	3.3500	22.58	0.12	22.70	46.00	-23.30	AVG	
	11	7.4300	26.34	0.23	26.57	60.00	-33.43	QP	
	12	7.4300	19.57	0.23	19.80	50.00	-30.20	AVG	
	13	10.0000	16.30	0.32	16.62	60.00	-43.38	QP	
	14	10.0000	10.62	0.32	10.94	50.00	-39.06	AVG	
	15	11.4350	22.60	0.36	22.96	60.00	-37.04	QP	
	16	11.4350	18.83	0.36	19.19	50.00	-30.81	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 67 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

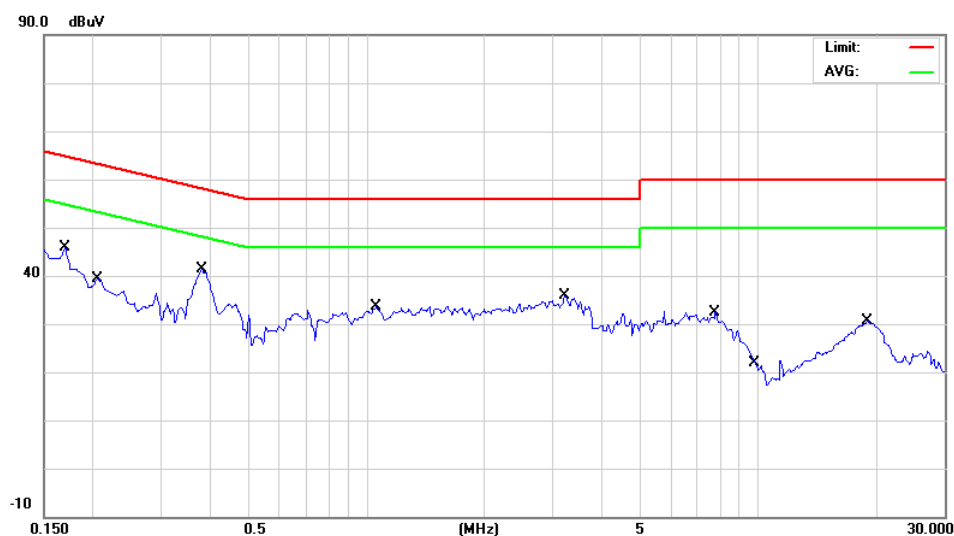
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.8G
802.11a_CH157

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1700	40.56	-0.12	40.44	64.96	-24.52	QP	
	2	0.1700	29.17	-0.12	29.05	54.96	-25.91	AVG	
	3	0.2050	35.80	-0.11	35.69	63.41	-27.72	QP	
	4	0.2050	24.25	-0.11	24.14	53.41	-29.27	AVG	
	5	0.3800	39.78	-0.15	39.63	58.28	-18.65	QP	
*	6	0.3800	31.84	-0.15	31.69	48.28	-16.59	AVG	
	7	1.0600	30.22	-0.05	30.17	56.00	-25.83	QP	
	8	1.0600	21.13	-0.05	21.08	46.00	-24.92	AVG	
	9	3.2100	31.84	0.06	31.90	56.00	-24.10	QP	
	10	3.2100	23.82	0.06	23.88	46.00	-22.12	AVG	
	11	7.8100	27.12	0.15	27.27	60.00	-32.73	QP	
	12	7.8100	20.78	0.15	20.93	50.00	-29.07	AVG	
	13	10.0000	17.74	0.14	17.88	60.00	-42.12	QP	
	14	10.0000	12.48	0.14	12.62	50.00	-37.38	AVG	
	15	19.1100	26.18	0.49	26.67	60.00	-33.33	QP	
	16	19.1100	20.78	0.49	21.27	50.00	-28.73	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 68 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

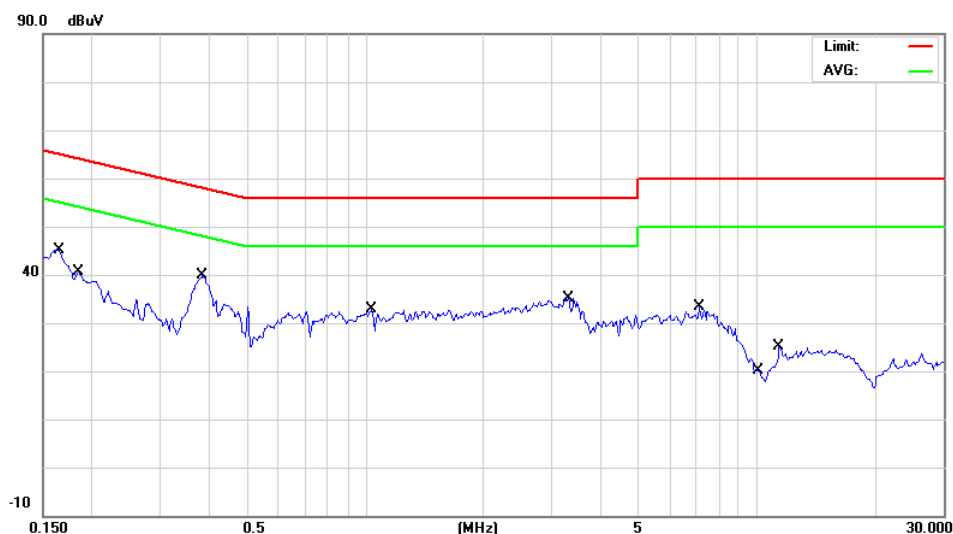
Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.8G
802.11a_CH157

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	40.62	0.05	40.67	65.21	-24.54	QP	
	2	0.1650	27.15	0.05	27.20	55.21	-28.01	AVG	
	3	0.1850	36.84	0.01	36.85	64.26	-27.41	QP	
	4	0.1850	21.84	0.01	21.85	54.26	-32.41	AVG	
	5	0.3850	38.44	0.11	38.55	58.17	-19.62	QP	
*	6	0.3850	30.03	0.11	30.14	48.17	-18.03	AVG	
	7	1.0400	29.34	0.04	29.38	56.00	-26.62	QP	
	8	1.0400	20.19	0.04	20.23	46.00	-25.77	AVG	
	9	3.2950	31.88	0.13	32.01	56.00	-23.99	QP	
	10	3.2950	23.68	0.13	23.81	46.00	-22.19	AVG	
	11	7.1300	27.58	0.21	27.79	60.00	-32.21	QP	
	12	7.1300	20.52	0.21	20.73	50.00	-29.27	AVG	
	13	10.0000	15.54	0.32	15.86	60.00	-44.14	QP	
	14	10.0000	9.89	0.32	10.21	50.00	-39.79	AVG	
	15	11.4300	20.42	0.36	20.78	60.00	-39.22	QP	
	16	11.4300	16.81	0.36	17.17	50.00	-32.83	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

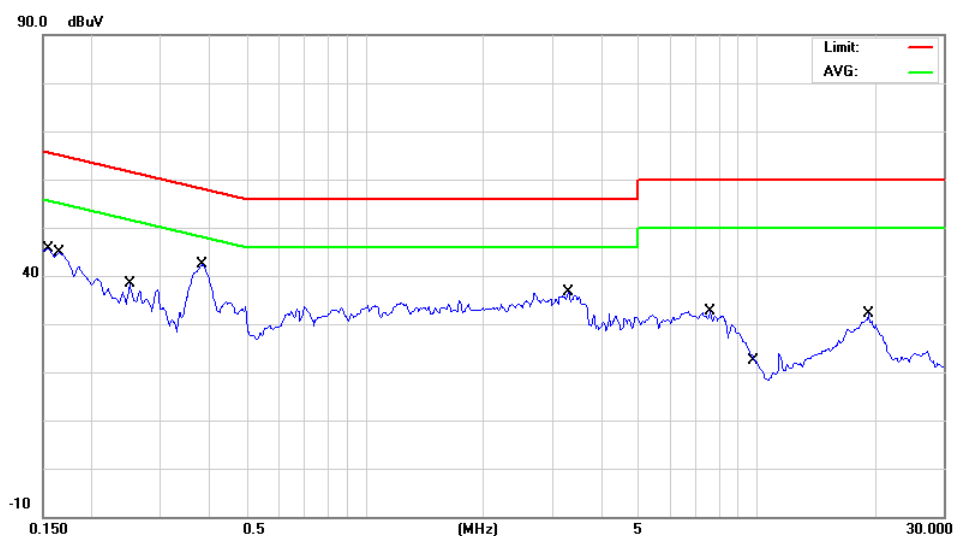
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 69 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.8G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH165
			Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.60	-0.12	42.48	65.73	-23.25	QP	
	2	0.1550	28.93	-0.12	28.81	55.73	-26.92	AVG	
	3	0.1650	41.52	-0.12	41.40	65.21	-23.81	QP	
	4	0.1650	28.93	-0.12	28.81	55.21	-26.40	AVG	
	5	0.2500	31.26	-0.12	31.14	61.76	-30.62	QP	
	6	0.2500	21.13	-0.12	21.01	51.76	-30.75	AVG	
	7	0.3850	40.50	-0.15	40.35	58.17	-17.82	QP	
*	8	0.3850	32.11	-0.15	31.96	48.17	-16.21	AVG	
	9	3.3050	32.86	0.06	32.92	56.00	-23.08	QP	
	10	3.3050	24.65	0.06	24.71	46.00	-21.29	AVG	
	11	7.5950	28.04	0.15	28.19	60.00	-31.81	QP	
	12	7.5950	21.47	0.15	21.62	50.00	-28.38	AVG	
	13	10.0000	18.22	0.14	18.36	60.00	-41.64	QP	
	14	10.0000	13.12	0.14	13.26	50.00	-36.74	AVG	
	15	19.2750	26.04	0.50	26.54	60.00	-33.46	QP	
	16	19.2750	20.57	0.50	21.07	50.00	-28.93	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

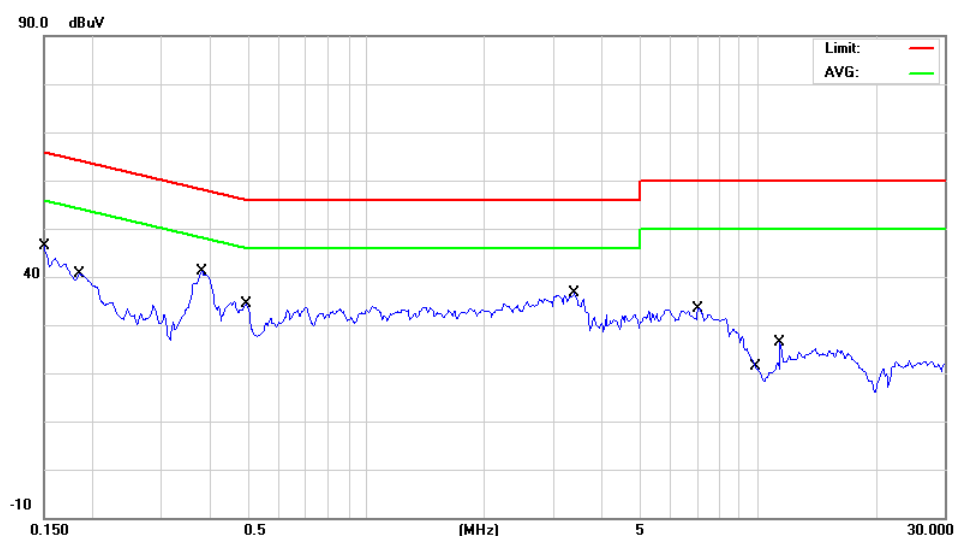
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 70 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	67 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	5.8G
Receiver Detector:	Q.P. and AV.	Tested Date:	802.11a_CH165
			Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.08	0.07	43.15	66.00	-22.85	QP	
	2	0.1500	30.83	0.07	30.90	56.00	-25.10	AVG	
	3	0.1850	37.16	0.01	37.17	64.26	-27.09	QP	
	4	0.1850	21.98	0.01	21.99	54.26	-32.27	AVG	
	5	0.3800	39.38	0.11	39.49	58.28	-18.79	QP	
*	6	0.3800	31.23	0.11	31.34	48.28	-16.94	AVG	
	7	0.4950	31.36	0.11	31.47	56.08	-24.61	QP	
	8	0.4950	18.36	0.11	18.47	46.08	-27.61	AVG	
	9	3.4050	32.22	0.12	32.34	56.00	-23.66	QP	
	10	3.4050	23.97	0.12	24.09	46.00	-21.91	AVG	
	11	7.0400	28.02	0.21	28.23	60.00	-31.77	QP	
	12	7.0400	21.13	0.21	21.34	50.00	-28.66	AVG	
	13	10.0000	16.02	0.32	16.34	60.00	-43.66	QP	
	14	10.0000	10.20	0.32	10.52	50.00	-39.48	AVG	
	15	11.4200	22.78	0.36	23.14	60.00	-36.86	QP	
	16	11.4200	18.95	0.36	19.31	50.00	-30.69	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 71 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.8G

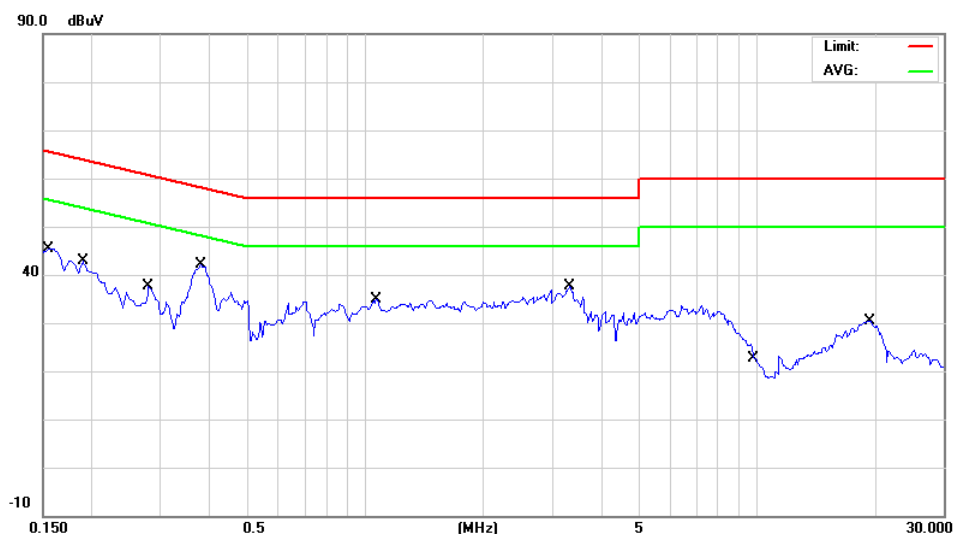
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH149
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	43.12	-0.12	43.00	65.73	-22.73	QP	
	2	0.1550	28.77	-0.12	28.65	55.73	-27.08	AVG	
	3	0.1900	38.28	-0.11	38.17	64.04	-25.87	QP	
	4	0.1900	25.76	-0.11	25.65	54.04	-28.39	AVG	
	5	0.2800	33.62	-0.13	33.49	60.82	-27.33	QP	
	6	0.2800	24.25	-0.13	24.12	50.82	-26.70	AVG	
	7	0.3800	41.00	-0.15	40.85	58.28	-17.43	QP	
*	8	0.3800	32.91	-0.15	32.76	48.28	-15.52	AVG	
	9	1.0700	31.44	-0.05	31.39	56.00	-24.61	QP	
	10	1.0700	20.98	-0.05	20.93	46.00	-25.07	AVG	
	11	3.3300	33.12	0.07	33.19	56.00	-22.81	QP	
	12	3.3300	24.59	0.07	24.66	46.00	-21.34	AVG	
	13	10.0000	18.72	0.14	18.86	60.00	-41.14	QP	
	14	10.0000	13.43	0.14	13.57	50.00	-36.43	AVG	
	15	19.4284	25.90	0.51	26.41	60.00	-33.59	QP	
	16	19.4284	20.41	0.51	20.92	50.00	-29.08	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

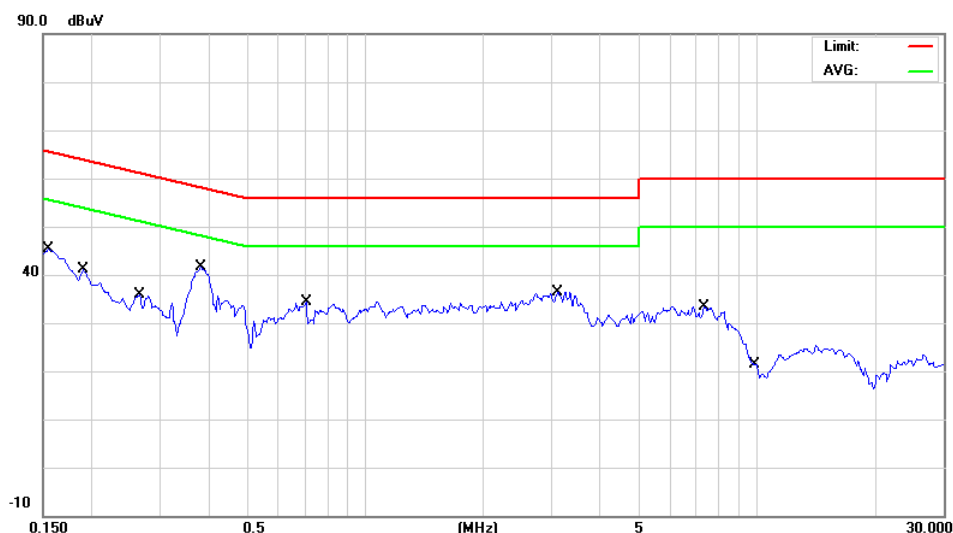
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 72 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH149 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.62	0.06	42.68	65.73	-23.05	QP	
	2	0.1550	28.35	0.06	28.41	55.73	-27.32	AVG	
	3	0.1900	37.40	0.01	37.41	64.04	-26.63	QP	
	4	0.1900	24.32	0.01	24.33	54.04	-29.71	AVG	
	5	0.2650	29.92	0.03	29.95	61.27	-31.32	QP	
	6	0.2650	20.62	0.03	20.65	51.27	-30.62	AVG	
	7	0.3800	39.48	0.11	39.59	58.28	-18.69	QP	
*	8	0.3800	31.66	0.11	31.77	48.28	-16.51	AVG	
	9	0.7050	31.26	0.07	31.33	56.00	-24.67	QP	
	10	0.7050	17.20	0.07	17.27	46.00	-28.73	AVG	
	11	3.1050	31.98	0.13	32.11	56.00	-23.89	QP	
	12	3.1050	24.11	0.13	24.24	46.00	-21.76	AVG	
	13	7.3300	28.46	0.22	28.68	60.00	-31.32	QP	
	14	7.3300	21.66	0.22	21.88	50.00	-28.12	AVG	
	15	10.0000	16.02	0.32	16.34	60.00	-43.66	QP	
	16	10.0000	10.54	0.32	10.86	50.00	-39.14	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 73 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

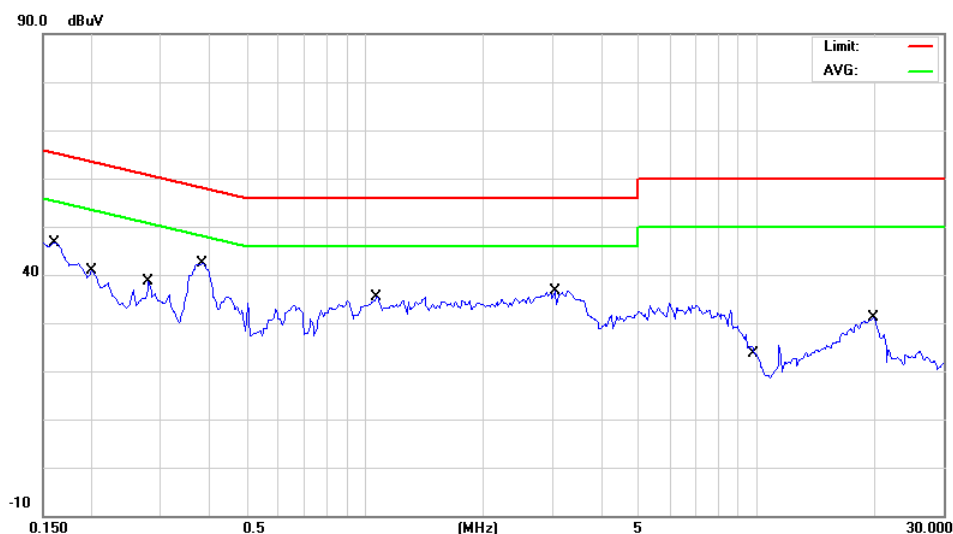
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH157
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.52	-0.12	42.40	65.46	-23.06	QP	
	2	0.1600	28.77	-0.12	28.65	55.46	-26.81	AVG	
	3	0.2000	37.90	-0.11	37.79	63.61	-25.82	QP	
	4	0.2000	26.69	-0.11	26.58	53.61	-27.03	AVG	
	5	0.2800	33.78	-0.13	33.65	60.82	-27.17	QP	
	6	0.2800	24.52	-0.13	24.39	50.82	-26.43	AVG	
	7	0.3850	41.04	-0.15	40.89	58.17	-17.28	QP	
*	8	0.3850	32.99	-0.15	32.84	48.17	-15.33	AVG	
	9	1.0700	31.94	-0.05	31.89	56.00	-24.11	QP	
	10	1.0700	21.33	-0.05	21.28	46.00	-24.72	AVG	
	11	3.0550	32.54	0.04	32.58	56.00	-23.42	QP	
	12	3.0550	24.65	0.04	24.69	46.00	-21.31	AVG	
	13	10.0000	18.98	0.14	19.12	60.00	-40.88	QP	
	14	10.0000	13.78	0.14	13.92	50.00	-36.08	AVG	
	15	19.9150	25.26	0.52	25.78	60.00	-34.22	QP	
	16	19.9150	19.74	0.52	20.26	50.00	-29.74	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

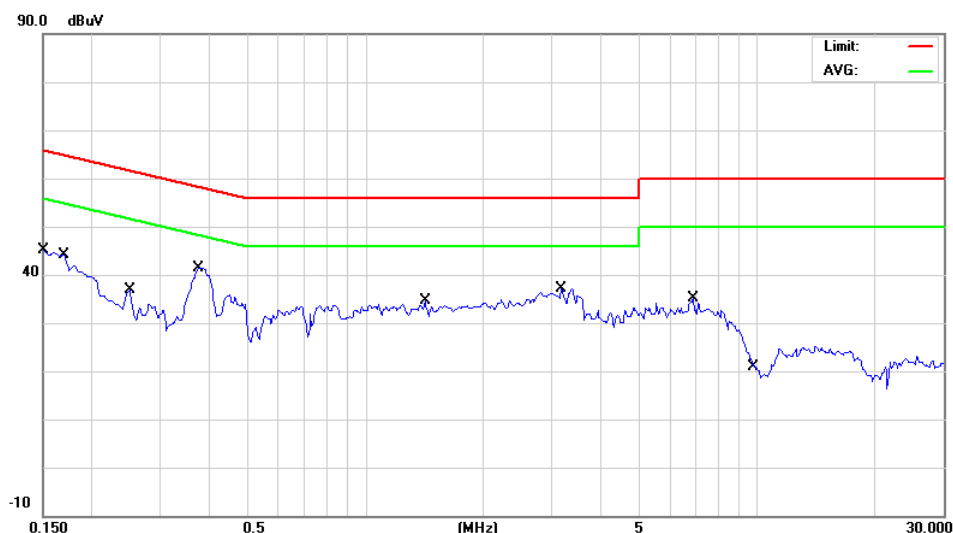
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 74 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH157 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.40	0.07	43.47	66.00	-22.53	QP	
	2	0.1500	30.98	0.07	31.05	56.00	-24.95	AVG	
	3	0.1700	41.18	0.04	41.22	64.96	-23.74	QP	
	4	0.1700	29.47	0.04	29.51	54.96	-25.45	AVG	
	5	0.2500	29.32	0.02	29.34	61.76	-32.42	QP	
	6	0.2500	18.83	0.02	18.85	51.76	-32.91	AVG	
	7	0.3750	39.74	0.10	39.84	58.39	-18.55	QP	
*	8	0.3750	31.75	0.10	31.85	48.39	-16.54	AVG	
	9	1.4200	30.72	0.09	30.81	56.00	-25.19	QP	
	10	1.4200	21.33	0.09	21.42	46.00	-24.58	AVG	
	11	3.1650	32.28	0.13	32.41	56.00	-23.59	QP	
	12	3.1650	24.25	0.13	24.38	46.00	-21.62	AVG	
	13	6.8950	28.62	0.21	28.83	60.00	-31.17	QP	
	14	6.8950	21.52	0.21	21.73	50.00	-28.27	AVG	
	15	10.0000	16.46	0.32	16.78	60.00	-43.22	QP	
	16	10.0000	10.71	0.32	11.03	50.00	-38.97	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

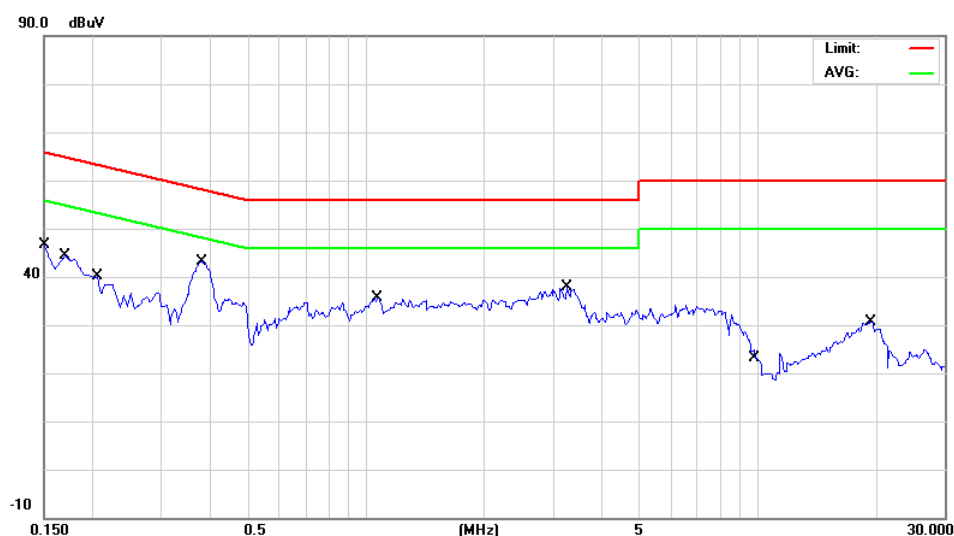
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 75 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11n - HT20_CH165 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.40	-0.12	44.28	66.00	-21.72	QP	
	2	0.1500	31.61	-0.12	31.49	56.00	-24.51	AVG	
	3	0.1700	41.92	-0.12	41.80	64.96	-23.16	QP	
	4	0.1700	30.67	-0.12	30.55	54.96	-24.41	AVG	
	5	0.2072	36.56	-0.11	36.45	63.32	-26.87	QP	
	6	0.2072	24.11	-0.11	24.00	53.32	-29.32	AVG	
	7	0.3800	41.44	-0.15	41.29	58.28	-16.99	QP	
*	8	0.3800	33.75	-0.15	33.60	48.28	-14.68	AVG	
	9	1.0700	32.36	-0.05	32.31	56.00	-23.69	QP	
	10	1.0700	21.56	-0.05	21.51	46.00	-24.49	AVG	
	11	3.2500	33.42	0.06	33.48	56.00	-22.52	QP	
	12	3.2500	25.22	0.06	25.28	46.00	-20.72	AVG	
	13	10.0000	19.16	0.14	19.30	60.00	-40.70	QP	
	14	10.0000	13.89	0.14	14.03	50.00	-35.97	AVG	
	15	19.5150	25.96	0.51	26.47	60.00	-33.53	QP	
	16	19.5150	20.30	0.51	20.81	50.00	-29.19	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

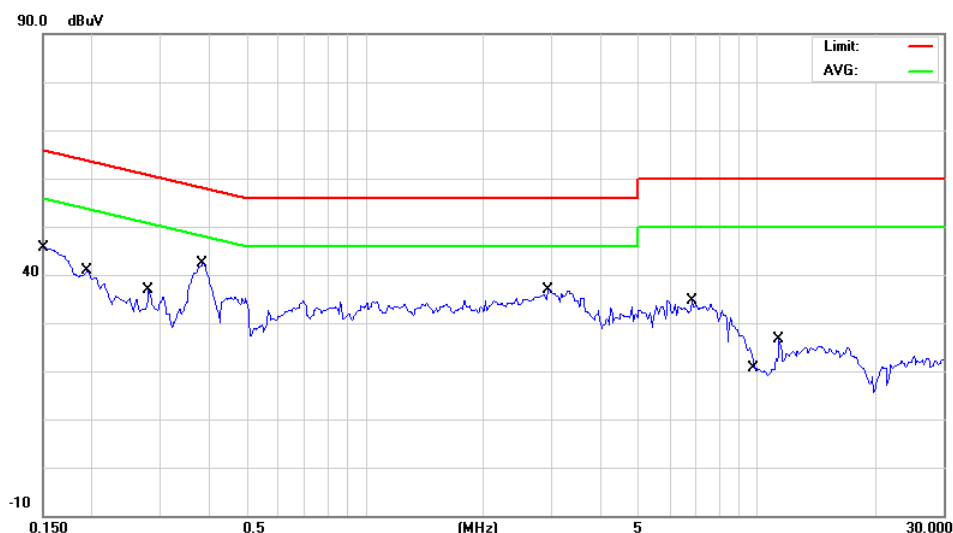
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 76 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH165 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.56	0.07	43.63	66.00	-22.37	QP	
	2	0.1500	30.93	0.07	31.00	56.00	-25.00	AVG	
	3	0.1950	37.54	0.00	37.54	63.82	-26.28	QP	
	4	0.1950	25.82	0.00	25.82	53.82	-28.00	AVG	
	5	0.2800	31.24	0.04	31.28	60.82	-29.54	QP	
	6	0.2800	21.80	0.04	21.84	50.82	-28.98	AVG	
	7	0.3850	40.12	0.11	40.23	58.17	-17.94	QP	
*	8	0.3850	31.75	0.11	31.86	48.17	-16.31	AVG	
	9	2.9300	31.66	0.13	31.79	56.00	-24.21	QP	
	10	2.9300	23.97	0.13	24.10	46.00	-21.90	AVG	
	11	6.8350	28.60	0.21	28.81	60.00	-31.19	QP	
	12	6.8350	21.56	0.21	21.77	50.00	-28.23	AVG	
	13	10.0000	16.32	0.32	16.64	60.00	-43.36	QP	
	14	10.0000	10.71	0.32	11.03	50.00	-38.97	AVG	
	15	11.4200	21.60	0.36	21.96	60.00	-38.04	QP	
	16	11.4200	14.91	0.36	15.27	50.00	-34.73	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

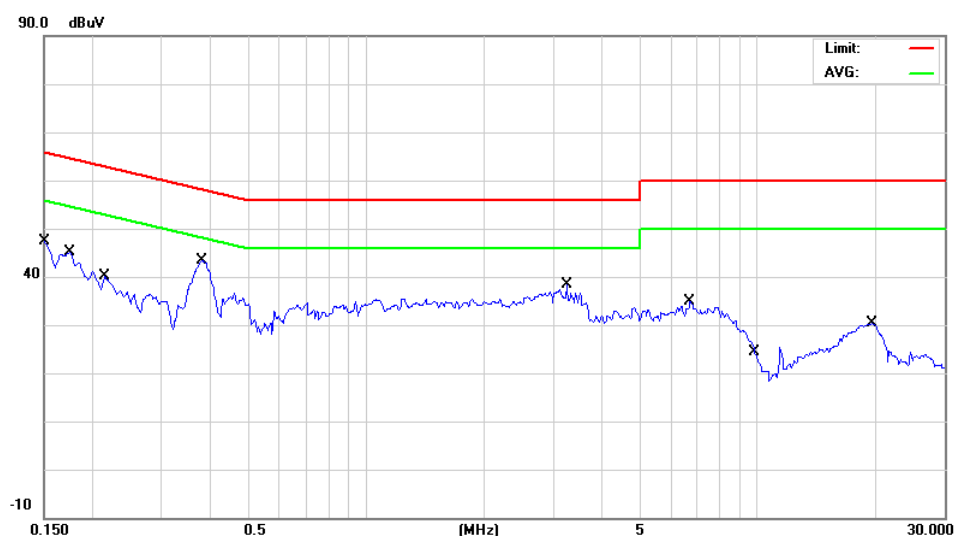
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 77 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11n - HT20_CH149 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.80	-0.12	44.68	66.00	-21.32	QP	
	2	0.1500	32.24	-0.12	32.12	56.00	-23.88	AVG	
	3	0.1750	41.50	-0.12	41.38	64.72	-23.34	QP	
	4	0.1750	28.93	-0.12	28.81	54.72	-25.91	AVG	
	5	0.2150	36.04	-0.11	35.93	63.01	-27.08	QP	
	6	0.2150	23.38	-0.11	23.27	53.01	-29.74	AVG	
	7	0.3800	41.70	-0.15	41.55	58.28	-16.73	QP	
*	8	0.3800	33.97	-0.15	33.82	48.28	-14.46	AVG	
	9	3.2500	33.58	0.06	33.64	56.00	-22.36	QP	
	10	3.2500	25.53	0.06	25.59	46.00	-20.41	AVG	
	11	6.7200	29.02	0.14	29.16	60.00	-30.84	QP	
	12	6.7200	21.80	0.14	21.94	50.00	-28.06	AVG	
	13	10.0000	19.48	0.14	19.62	60.00	-40.38	QP	
	14	10.0000	14.17	0.14	14.31	50.00	-35.69	AVG	
	15	19.5450	25.86	0.51	26.37	60.00	-33.63	QP	
	16	19.5450	20.36	0.51	20.87	50.00	-29.13	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 78 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

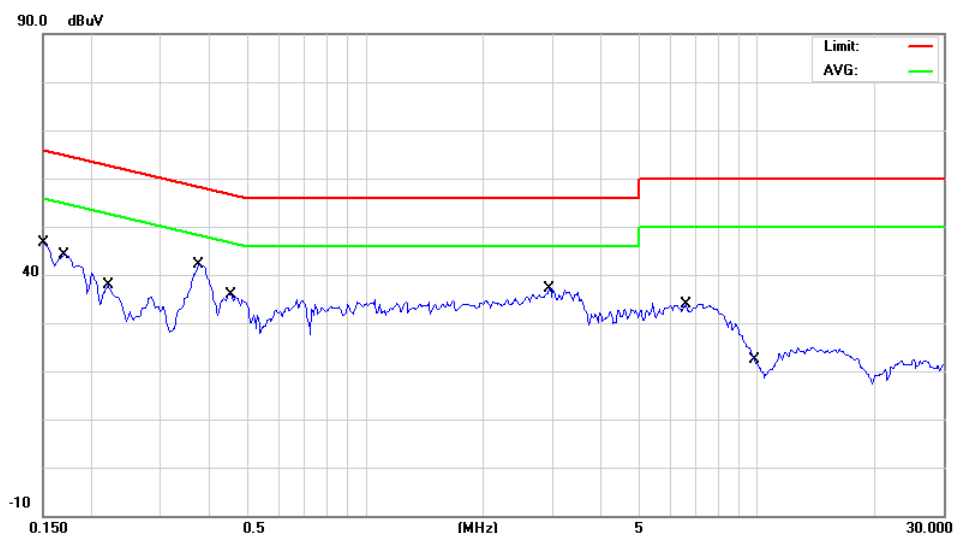
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.8G
802.11n - HT20_CH149
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.98	0.07	44.05	66.00	-21.95	QP	
	2	0.1500	31.37	0.07	31.44	56.00	-24.56	AVG	
	3	0.1700	41.60	0.04	41.64	64.96	-23.32	QP	
	4	0.1700	29.84	0.04	29.88	54.96	-25.08	AVG	
	5	0.2200	34.16	0.00	34.16	62.82	-28.66	QP	
	6	0.2200	21.28	0.00	21.28	52.82	-31.54	AVG	
	7	0.3750	40.06	0.10	40.16	58.39	-18.23	QP	
*	8	0.3750	32.11	0.10	32.21	48.39	-16.18	AVG	
	9	0.4550	32.96	0.11	33.07	56.78	-23.71	QP	
	10	0.4550	23.75	0.11	23.86	46.78	-22.92	AVG	
	11	2.9600	31.70	0.13	31.83	56.00	-24.17	QP	
	12	2.9600	23.97	0.13	24.10	46.00	-21.90	AVG	
	13	6.6150	28.84	0.20	29.04	60.00	-30.96	QP	
	14	6.6150	21.52	0.20	21.72	50.00	-28.28	AVG	
	15	10.0000	16.68	0.32	17.00	60.00	-43.00	QP	
	16	10.0000	11.03	0.32	11.35	50.00	-38.65	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 79 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

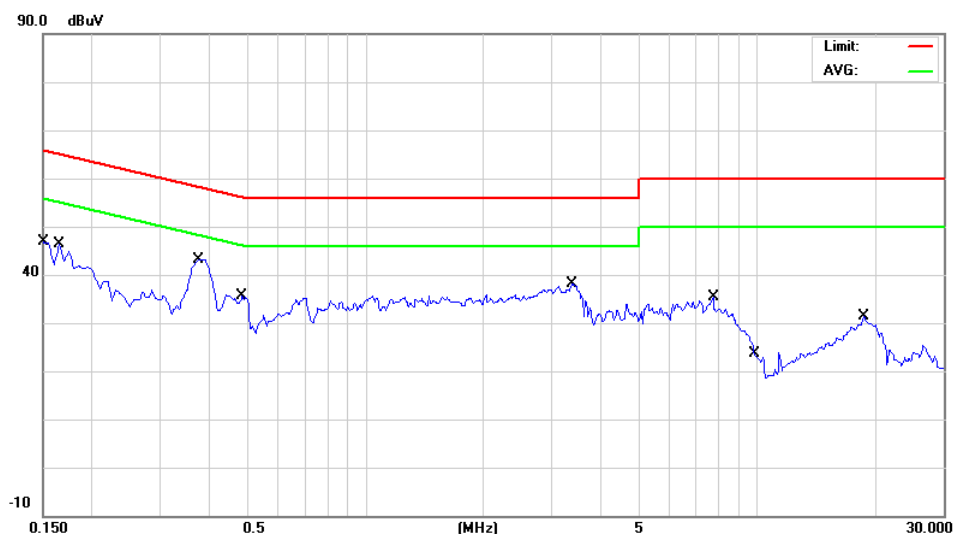
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH157
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.84	-0.12	44.72	66.00	-21.28	QP	
	2	0.1500	32.41	-0.12	32.29	56.00	-23.71	AVG	
	3	0.1650	42.96	-0.12	42.84	65.21	-22.37	QP	
	4	0.1650	30.57	-0.12	30.45	55.21	-24.76	AVG	
	5	0.3750	41.84	-0.14	41.70	58.39	-16.69	QP	
*	6	0.3750	33.90	-0.14	33.76	48.39	-14.63	AVG	
	7	0.4850	32.86	-0.14	32.72	56.25	-23.53	QP	
	8	0.4850	20.08	-0.14	19.94	46.25	-26.31	AVG	
	9	3.3750	33.66	0.07	33.73	56.00	-22.27	QP	
	10	3.3750	25.29	0.07	25.36	46.00	-20.64	AVG	
	11	7.7400	29.30	0.15	29.45	60.00	-30.55	QP	
	12	7.7400	22.83	0.15	22.98	50.00	-27.02	AVG	
	13	10.0000	19.66	0.14	19.80	60.00	-40.20	QP	
	14	10.0000	14.39	0.14	14.53	50.00	-35.47	AVG	
	15	18.7650	25.88	0.48	26.36	60.00	-33.64	QP	
	16	18.7650	20.46	0.48	20.94	50.00	-29.06	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

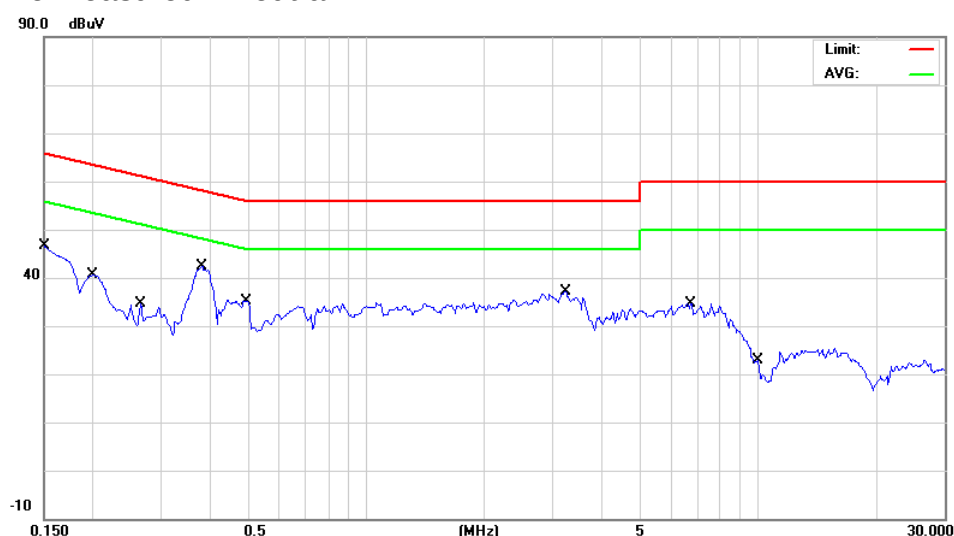
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 80 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH157 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.06	0.07	44.13	66.00	-21.87	QP	
	2	0.1500	31.33	0.07	31.40	56.00	-24.60	AVG	
	3	0.2000	37.40	-0.01	37.39	63.61	-26.22	QP	
	4	0.2000	25.16	-0.01	25.15	53.61	-28.46	AVG	
	5	0.2650	30.56	0.03	30.59	61.27	-30.68	QP	
	6	0.2650	21.37	0.03	21.40	51.27	-29.87	AVG	
	7	0.3800	40.54	0.11	40.65	58.28	-17.63	QP	
*	8	0.3800	32.50	0.11	32.61	48.28	-15.67	AVG	
	9	0.4950	32.36	0.11	32.47	56.08	-23.61	QP	
	10	0.4950	19.39	0.11	19.50	46.08	-26.58	AVG	
	11	3.2250	33.12	0.13	33.25	56.00	-22.75	QP	
	12	3.2250	24.78	0.13	24.91	46.00	-21.09	AVG	
	13	6.7650	29.04	0.20	29.24	60.00	-30.76	QP	
	14	6.7650	21.84	0.20	22.04	50.00	-27.96	AVG	
	15	10.0000	16.58	0.32	16.90	60.00	-43.10	QP	
	16	10.0000	11.18	0.32	11.50	50.00	-38.50	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 81 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

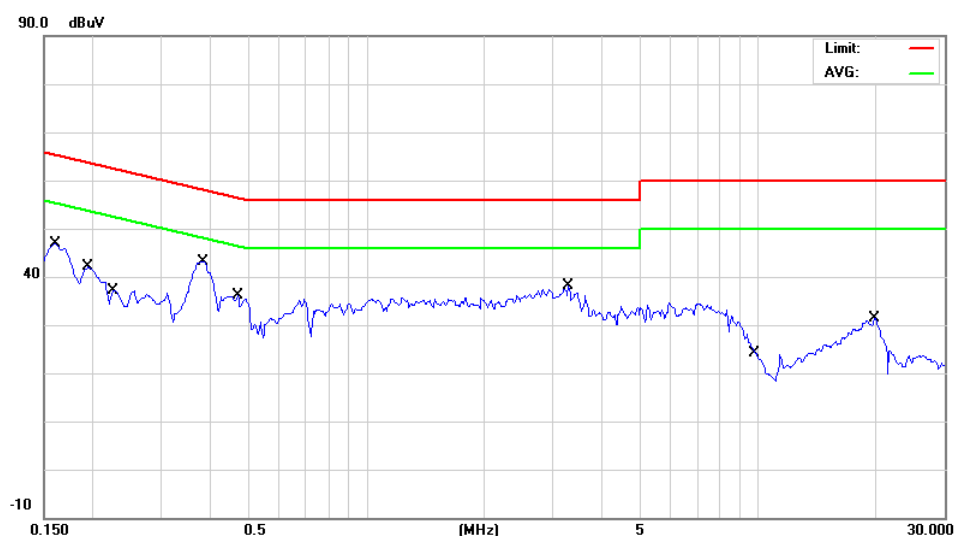
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT20_CH165
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	43.72	-0.12	43.60	65.46	-21.86	QP	
	2	0.1600	29.62	-0.12	29.50	55.46	-25.96	AVG	
	3	0.1950	38.96	-0.11	38.85	63.82	-24.97	QP	
	4	0.1950	27.95	-0.11	27.84	53.82	-25.98	AVG	
	5	0.2280	34.46	-0.12	34.34	62.52	-28.18	QP	
	6	0.2280	21.47	-0.12	21.35	52.52	-31.17	AVG	
	7	0.3850	41.78	-0.15	41.63	58.17	-16.54	QP	
*	8	0.3850	33.60	-0.15	33.45	48.17	-14.72	AVG	
	9	0.4700	32.50	-0.14	32.36	56.51	-24.15	QP	
	10	0.4700	22.91	-0.14	22.77	46.51	-23.74	AVG	
	11	3.2850	33.84	0.06	33.90	56.00	-22.10	QP	
	12	3.2850	25.76	0.06	25.82	46.00	-20.18	AVG	
	13	10.0000	19.36	0.14	19.50	60.00	-40.50	QP	
	14	10.0000	14.06	0.14	14.20	50.00	-35.80	AVG	
	15	19.9100	25.20	0.52	25.72	60.00	-34.28	QP	
	16	19.9100	19.74	0.52	20.26	50.00	-29.74	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

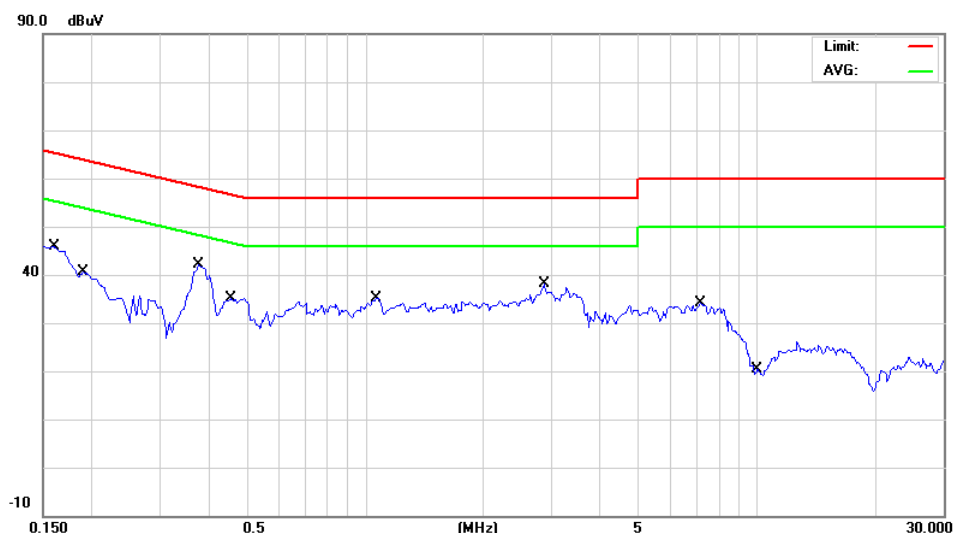
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 82 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT20_CH165 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.78	0.05	42.83	65.46	-22.63	QP	
	2	0.1600	28.09	0.05	28.14	55.46	-27.32	AVG	
	3	0.1900	37.98	0.01	37.99	64.04	-26.05	QP	
	4	0.1900	24.91	0.01	24.92	54.04	-29.12	AVG	
	5	0.3750	40.06	0.10	40.16	58.39	-18.23	QP	
*	6	0.3750	32.07	0.10	32.17	48.39	-16.22	AVG	
	7	0.4550	32.86	0.11	32.97	56.78	-23.81	QP	
	8	0.4550	23.60	0.11	23.71	46.78	-23.07	AVG	
	9	1.0700	31.64	0.05	31.69	56.00	-24.31	QP	
	10	1.0700	20.52	0.05	20.57	46.00	-25.43	AVG	
	11	2.8600	31.46	0.14	31.60	56.00	-24.40	QP	
	12	2.8600	23.53	0.14	23.67	46.00	-22.33	AVG	
	13	7.1900	29.20	0.21	29.41	60.00	-30.59	QP	
	14	7.1900	22.02	0.21	22.23	50.00	-27.77	AVG	
	15	10.0000	15.18	0.32	15.50	60.00	-44.50	QP	
	16	10.0000	9.71	0.32	10.03	50.00	-39.97	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 83 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

5.8G

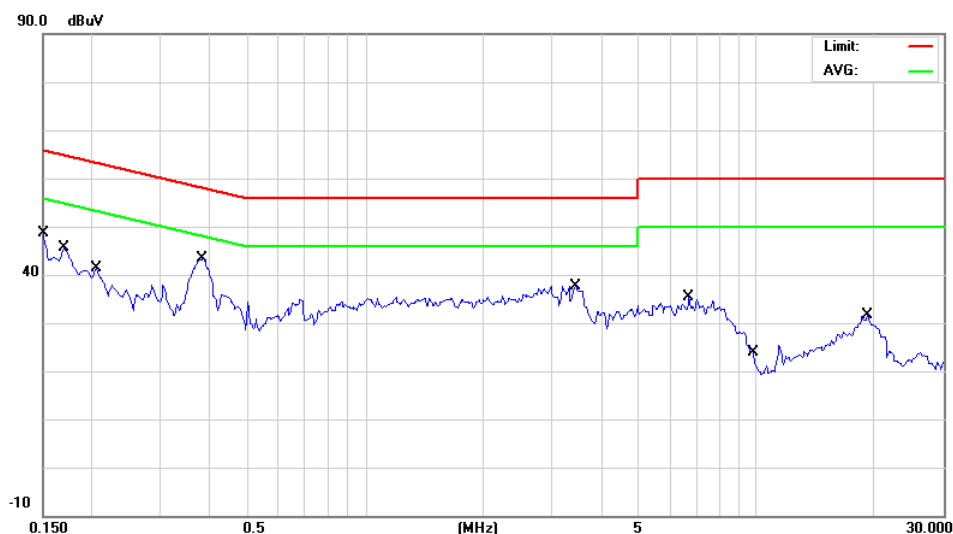
Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH151
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.88	-0.12	44.76	66.00	-21.24	QP	
	2	0.1500	32.33	-0.12	32.21	56.00	-23.79	AVG	
	3	0.1700	42.28	-0.12	42.16	64.96	-22.80	QP	
	4	0.1700	30.88	-0.12	30.76	54.96	-24.20	AVG	
	5	0.2050	37.82	-0.11	37.71	63.41	-25.70	QP	
	6	0.2050	25.35	-0.11	25.24	53.41	-28.17	AVG	
	7	0.3850	41.82	-0.15	41.67	58.17	-16.50	QP	
*	8	0.3850	33.38	-0.15	33.23	48.17	-14.94	AVG	
	9	3.4450	33.24	0.08	33.32	56.00	-22.68	QP	
	10	3.4450	25.10	0.08	25.18	46.00	-20.82	AVG	
	11	6.7000	29.00	0.14	29.14	60.00	-30.86	QP	
	12	6.7000	21.70	0.14	21.84	50.00	-28.16	AVG	
	13	10.0000	18.08	0.14	18.22	60.00	-41.78	QP	
	14	10.0000	12.61	0.14	12.75	50.00	-37.25	AVG	
	15	19.1600	25.98	0.49	26.47	60.00	-33.53	QP	
	16	19.1600	20.57	0.49	21.06	50.00	-28.94	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 84 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH151 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.04	0.07	44.11	66.00	-21.89	QP	
	2	0.1500	31.98	0.07	32.05	56.00	-23.95	AVG	
	3	0.2000	37.28	-0.01	37.27	63.61	-26.34	QP	
	4	0.2000	25.22	-0.01	25.21	53.61	-28.40	AVG	
	5	0.3800	40.62	0.11	40.73	58.28	-17.55	QP	
*	6	0.3800	32.58	0.11	32.69	48.28	-15.59	AVG	
	7	0.4600	33.16	0.11	33.27	56.69	-23.42	QP	
	8	0.4600	23.45	0.11	23.56	46.69	-23.13	AVG	
	9	1.4200	30.60	0.09	30.69	56.00	-25.31	QP	
	10	1.4200	21.70	0.09	21.79	46.00	-24.21	AVG	
	11	3.2000	32.92	0.13	33.05	56.00	-22.95	QP	
	12	3.2000	24.85	0.13	24.98	46.00	-21.02	AVG	
	13	7.3800	29.02	0.23	29.25	60.00	-30.75	QP	
	14	7.3800	22.41	0.23	22.64	50.00	-27.36	AVG	
	15	10.0000	15.56	0.32	15.88	60.00	-44.12	QP	
	16	10.0000	9.80	0.32	10.12	50.00	-39.88	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 85 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

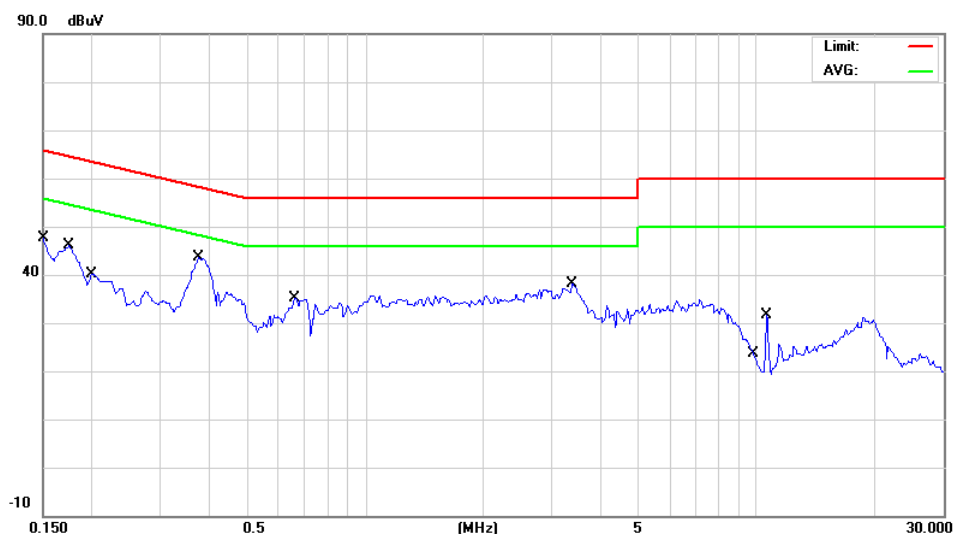
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH159
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	45.20	-0.12	45.08	66.00	-20.92	QP	
	2	0.1500	32.58	-0.12	32.46	56.00	-23.54	AVG	
	3	0.1750	41.68	-0.12	41.56	64.72	-23.16	QP	
	4	0.1750	29.17	-0.12	29.05	54.72	-25.67	AVG	
	5	0.2000	38.44	-0.11	38.33	63.61	-25.28	QP	
	6	0.2000	27.25	-0.11	27.14	53.61	-26.47	AVG	
	7	0.3750	41.78	-0.14	41.64	58.39	-16.75	QP	
*	8	0.3750	33.90	-0.14	33.76	48.39	-14.63	AVG	
	9	0.6600	31.80	-0.11	31.69	56.00	-24.31	QP	
	10	0.6600	22.99	-0.11	22.88	46.00	-23.12	AVG	
	11	3.3750	33.70	0.07	33.77	56.00	-22.23	QP	
	12	3.3750	25.16	0.07	25.23	46.00	-20.77	AVG	
	13	10.0000	17.94	0.14	18.08	60.00	-41.92	QP	
	14	10.0000	12.68	0.14	12.82	50.00	-37.18	AVG	
	15	10.6100	15.78	0.16	15.94	60.00	-44.06	QP	
	16	10.6100	10.37	0.16	10.53	50.00	-39.47	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

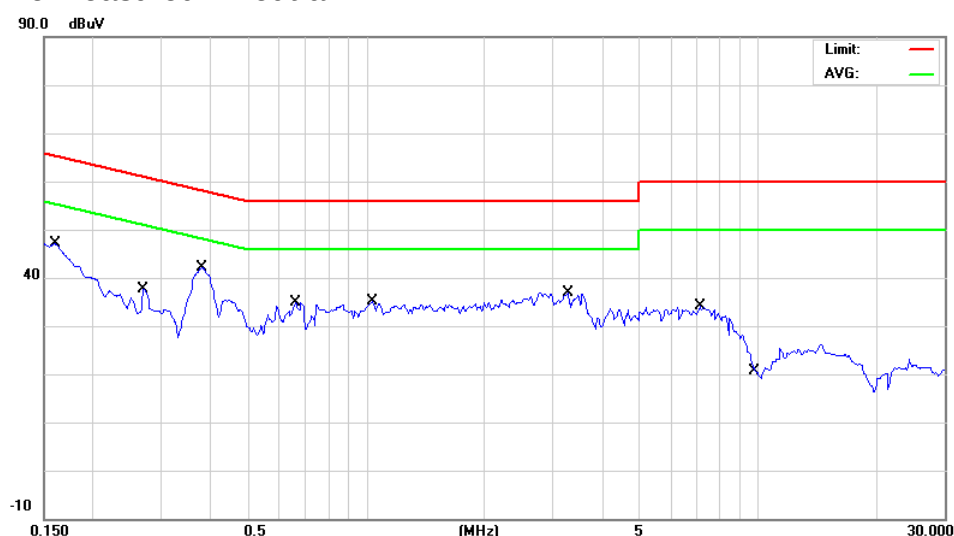
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 86 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH159 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.76	0.05	42.81	65.46	-22.65	QP	
	2	0.1600	28.68	0.05	28.73	55.46	-26.73	AVG	
	3	0.2700	31.00	0.04	31.04	61.12	-30.08	QP	
	4	0.2700	21.56	0.04	21.60	51.12	-29.52	AVG	
	5	0.3800	40.68	0.11	40.79	58.28	-17.49	QP	
*	6	0.3800	32.66	0.11	32.77	48.28	-15.51	AVG	
	7	0.6600	31.64	0.08	31.72	56.00	-24.28	QP	
	8	0.6600	22.75	0.08	22.83	46.00	-23.17	AVG	
	9	1.0350	30.98	0.04	31.02	56.00	-24.98	QP	
	10	1.0350	21.93	0.04	21.97	46.00	-24.03	AVG	
	11	3.2800	33.26	0.13	33.39	56.00	-22.61	QP	
	12	3.2800	25.04	0.13	25.17	46.00	-20.83	AVG	
	13	7.1100	29.18	0.21	29.39	60.00	-30.61	QP	
	14	7.1100	22.24	0.21	22.45	50.00	-27.55	AVG	
	15	10.0000	15.46	0.32	15.78	60.00	-44.22	QP	
	16	10.0000	9.89	0.32	10.21	50.00	-39.79	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 87 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

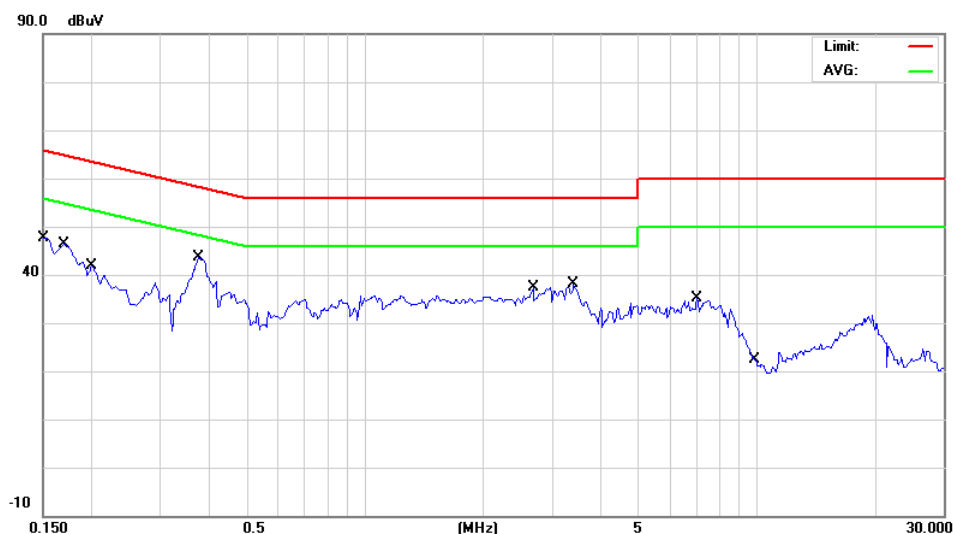
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11n - HT40_CH151
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.90	-0.12	44.78	66.00	-21.22	QP	
	2	0.1500	32.66	-0.12	32.54	56.00	-23.46	AVG	
	3	0.1700	42.58	-0.12	42.46	64.96	-22.50	QP	
	4	0.1700	31.08	-0.12	30.96	54.96	-24.00	AVG	
	5	0.2000	38.48	-0.11	38.37	63.61	-25.24	QP	
	6	0.2000	27.44	-0.11	27.33	53.61	-26.28	AVG	
	7	0.3750	41.86	-0.14	41.72	58.39	-16.67	QP	
*	8	0.3750	33.97	-0.14	33.83	48.39	-14.56	AVG	
	9	2.6850	31.64	0.00	31.64	56.00	-24.36	QP	
	10	2.6850	24.25	0.00	24.25	46.00	-21.75	AVG	
	11	3.4100	33.76	0.07	33.83	56.00	-22.17	QP	
	12	3.4100	25.53	0.07	25.60	46.00	-20.40	AVG	
	13	7.0350	29.52	0.13	29.65	60.00	-30.35	QP	
	14	7.0350	22.24	0.13	22.37	50.00	-27.63	AVG	
	15	10.0000	18.08	0.14	18.22	60.00	-41.78	QP	
	16	10.0000	12.68	0.14	12.82	50.00	-37.18	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

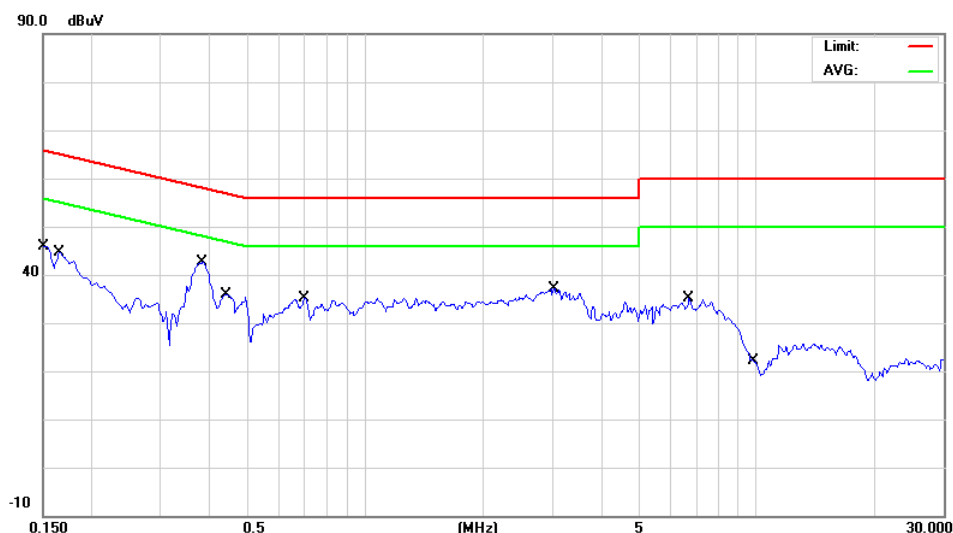
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 88 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH151 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.04	0.07	44.11	66.00	-21.89	QP	
	2	0.1500	32.11	0.07	32.18	56.00	-23.82	AVG	
	3	0.1650	42.38	0.05	42.43	65.21	-22.78	QP	
	4	0.1650	28.77	0.05	28.82	55.21	-26.39	AVG	
	5	0.3850	40.66	0.11	40.77	58.17	-17.40	QP	
*	6	0.3850	32.11	0.11	32.22	48.17	-15.95	AVG	
	7	0.4400	33.12	0.11	33.23	57.06	-23.83	QP	
	8	0.4400	23.75	0.11	23.86	47.06	-23.20	AVG	
	9	0.7000	32.28	0.08	32.36	56.00	-23.64	QP	
	10	0.7000	19.63	0.08	19.71	46.00	-26.29	AVG	
	11	3.0350	32.38	0.14	32.52	56.00	-23.48	QP	
	12	3.0350	24.65	0.14	24.79	46.00	-21.21	AVG	
	13	6.7300	29.24	0.20	29.44	60.00	-30.56	QP	
	14	6.7300	21.89	0.20	22.09	50.00	-27.91	AVG	
	15	10.0000	15.62	0.32	15.94	60.00	-44.06	QP	
	16	10.0000	9.94	0.32	10.26	50.00	-39.74	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

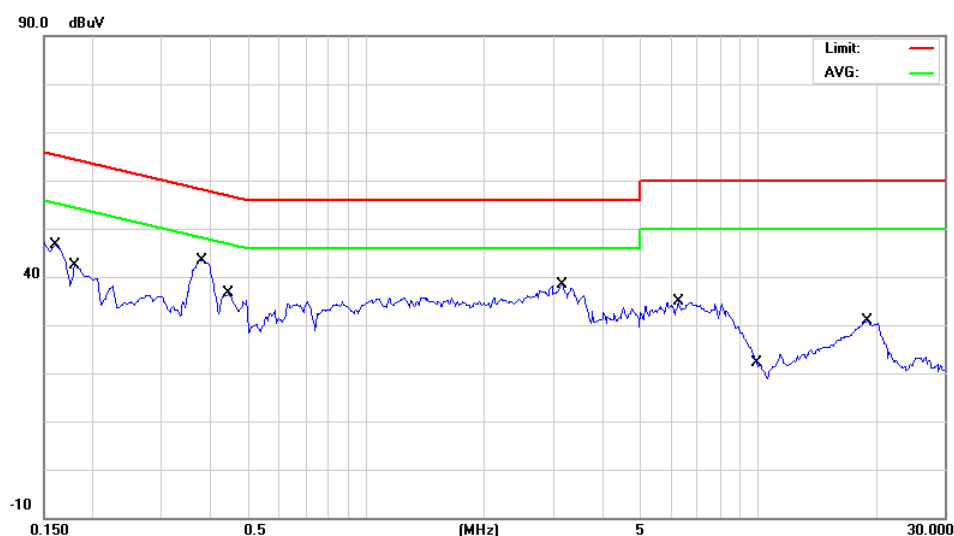
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 89 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11n - HT40_CH159 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	43.42	-0.12	43.30	65.46	-22.16	QP	
	2	0.1600	29.24	-0.12	29.12	55.46	-26.34	AVG	
	3	0.1800	40.20	-0.11	40.09	64.49	-24.40	QP	
	4	0.1800	25.82	-0.11	25.71	54.49	-28.78	AVG	
	5	0.3800	42.24	-0.15	42.09	58.28	-16.19	QP	
*	6	0.3800	34.32	-0.15	34.17	48.28	-14.11	AVG	
	7	0.4450	33.82	-0.14	33.68	56.97	-23.29	QP	
	8	0.4450	24.97	-0.14	24.83	46.97	-22.14	AVG	
	9	3.1650	33.50	0.05	33.55	56.00	-22.45	QP	
	10	3.1650	25.35	0.05	25.40	46.00	-20.60	AVG	
	11	6.2650	29.14	0.14	29.28	60.00	-30.72	QP	
	12	6.2650	21.61	0.14	21.75	50.00	-28.25	AVG	
	13	10.0000	18.08	0.14	18.22	60.00	-41.78	QP	
	14	10.0000	12.87	0.14	13.01	50.00	-36.99	AVG	
	15	19.1150	26.20	0.49	26.69	60.00	-33.31	QP	
	16	19.1150	20.62	0.49	21.11	50.00	-28.89	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

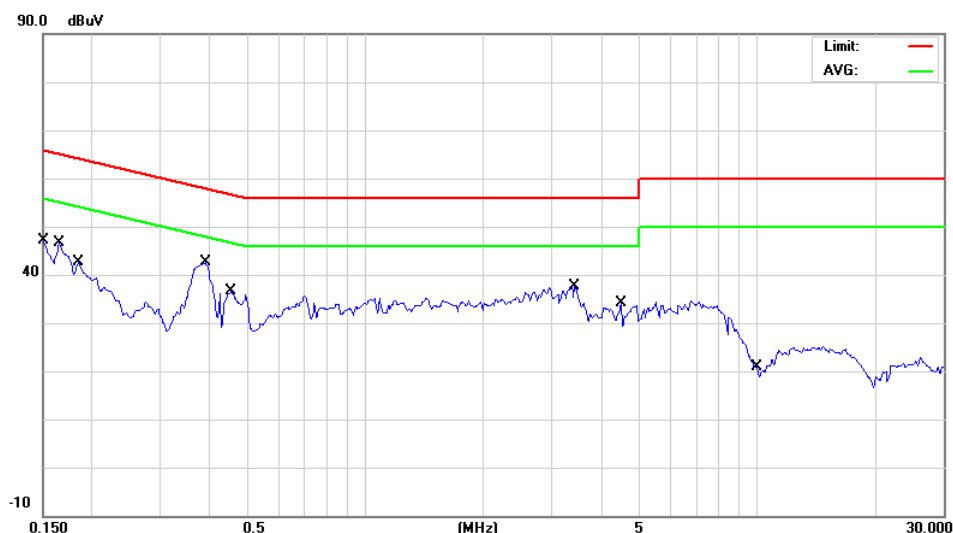
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 90 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11n - HT40_CH159 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.32	0.07	44.39	66.00	-21.61	QP	
	2	0.1500	31.70	0.07	31.77	56.00	-24.23	AVG	
	3	0.1650	42.44	0.05	42.49	65.21	-22.72	QP	
	4	0.1650	28.85	0.05	28.90	55.21	-26.31	AVG	
	5	0.1850	38.52	0.01	38.53	64.26	-25.73	QP	
	6	0.1850	23.15	0.01	23.16	54.26	-31.10	AVG	
	7	0.3900	40.10	0.11	40.21	58.06	-17.85	QP	
*	8	0.3900	31.03	0.11	31.14	48.06	-16.92	AVG	
	9	0.4550	33.10	0.11	33.21	56.78	-23.57	QP	
	10	0.4550	24.18	0.11	24.29	46.78	-22.49	AVG	
	11	3.4200	32.82	0.12	32.94	56.00	-23.06	QP	
	12	3.4200	24.72	0.12	24.84	46.00	-21.16	AVG	
	13	4.5100	28.16	0.12	28.28	56.00	-27.72	QP	
	14	4.5100	18.50	0.12	18.62	46.00	-27.38	AVG	
	15	10.0000	15.68	0.32	16.00	60.00	-44.00	QP	
	16	10.0000	9.89	0.32	10.21	50.00	-39.79	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

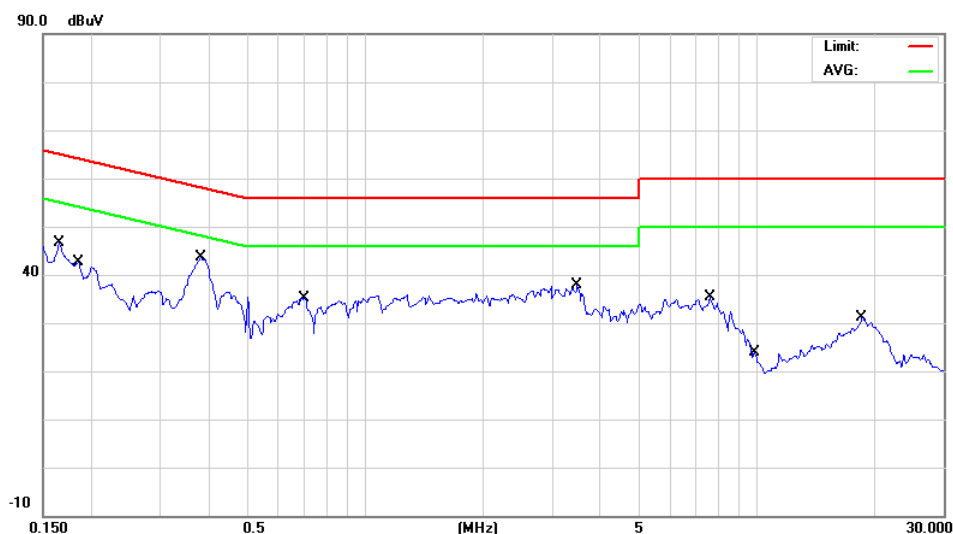
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 91 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT20_CH149 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	43.14	-0.12	43.02	65.21	-22.19	QP	
	2	0.1650	30.83	-0.12	30.71	55.21	-24.50	AVG	
	3	0.1850	39.32	-0.11	39.21	64.26	-25.05	QP	
	4	0.1850	24.72	-0.11	24.61	54.26	-29.65	AVG	
	5	0.3800	42.16	-0.15	42.01	58.28	-16.27	QP	
*	6	0.3800	34.32	-0.15	34.17	48.28	-14.11	AVG	
	7	0.7000	32.10	-0.11	31.99	56.00	-24.01	QP	
	8	0.7000	19.68	-0.11	19.57	46.00	-26.43	AVG	
	9	3.4800	33.10	0.08	33.18	56.00	-22.82	QP	
	10	3.4800	24.97	0.08	25.05	46.00	-20.95	AVG	
	11	7.5700	29.70	0.15	29.85	60.00	-30.15	QP	
	12	7.5700	22.91	0.15	23.06	50.00	-26.94	AVG	
	13	10.0000	18.30	0.14	18.44	60.00	-41.56	QP	
	14	10.0000	12.87	0.14	13.01	50.00	-36.99	AVG	
	15	18.6100	25.68	0.46	26.14	60.00	-33.86	QP	
	16	18.6100	20.41	0.46	20.87	50.00	-29.13	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

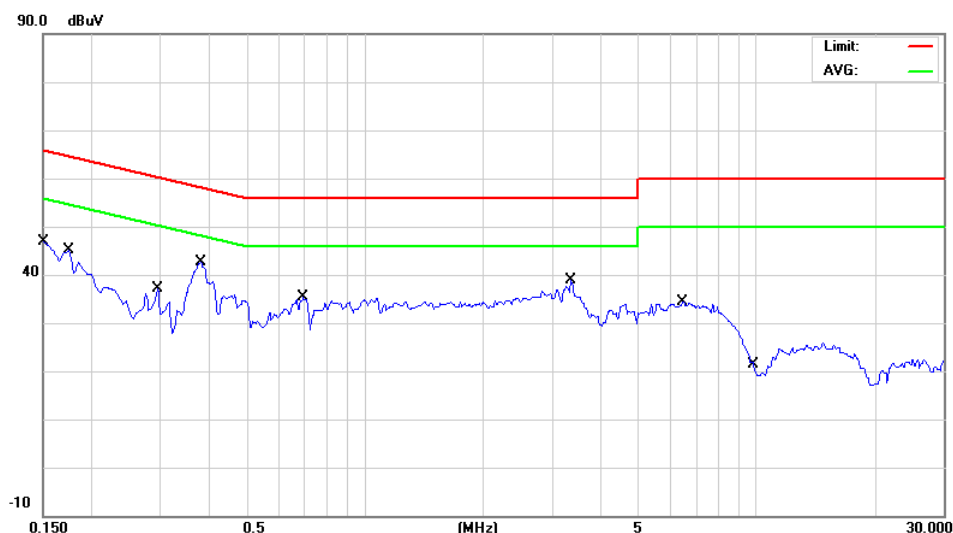
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 92 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH149 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.20	0.07	44.27	66.00	-21.73	QP	
	2	0.1500	31.56	0.07	31.63	56.00	-24.37	AVG	
	3	0.1750	41.20	0.03	41.23	64.72	-23.49	QP	
	4	0.1750	28.09	0.03	28.12	54.72	-26.60	AVG	
	5	0.2950	31.52	0.05	31.57	60.38	-28.81	QP	
	6	0.2950	20.67	0.05	20.72	50.38	-29.66	AVG	
	7	0.3800	40.80	0.11	40.91	58.28	-17.37	QP	
*	8	0.3800	32.91	0.11	33.02	48.28	-15.26	AVG	
	9	0.6950	32.56	0.08	32.64	56.00	-23.36	QP	
	10	0.6950	20.57	0.08	20.65	46.00	-25.35	AVG	
	11	3.3500	33.04	0.12	33.16	56.00	-22.84	QP	
	12	3.3500	24.78	0.12	24.90	46.00	-21.10	AVG	
	13	6.4600	29.34	0.20	29.54	60.00	-30.46	QP	
	14	6.4600	21.66	0.20	21.86	50.00	-28.14	AVG	
	15	10.0000	15.68	0.32	16.00	60.00	-44.00	QP	
	16	10.0000	9.89	0.32	10.21	50.00	-39.79	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

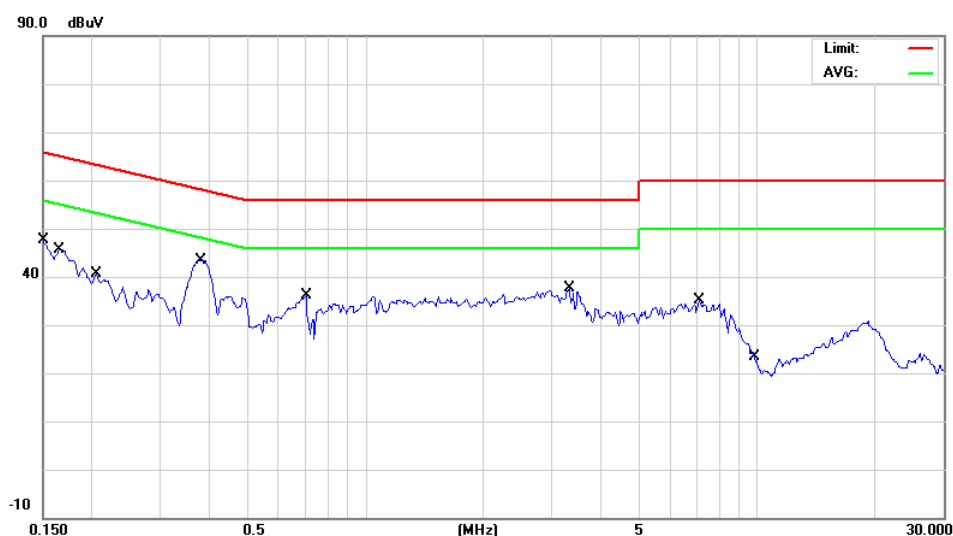
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 93 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT20_CH157 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	45.00	-0.12	44.88	66.00	-21.12	QP	
	2	0.1500	32.66	-0.12	32.54	56.00	-23.46	AVG	
	3	0.1650	43.10	-0.12	42.98	65.21	-22.23	QP	
	4	0.1650	30.57	-0.12	30.45	55.21	-24.76	AVG	
	5	0.2050	38.10	-0.11	37.99	63.41	-25.42	QP	
	6	0.2050	25.29	-0.11	25.18	53.41	-28.23	AVG	
	7	0.3800	42.20	-0.15	42.05	58.28	-16.23	QP	
*	8	0.3800	34.25	-0.15	34.10	48.28	-14.18	AVG	
	9	0.7050	32.70	-0.10	32.60	56.00	-23.40	QP	
	10	0.7050	18.09	-0.10	17.99	46.00	-28.01	AVG	
	11	3.3250	33.72	0.07	33.79	56.00	-22.21	QP	
	12	3.3250	25.59	0.07	25.66	46.00	-20.34	AVG	
	13	7.1150	29.54	0.13	29.67	60.00	-30.33	QP	
	14	7.1150	22.66	0.13	22.79	50.00	-27.21	AVG	
	15	10.0000	18.20	0.14	18.34	60.00	-41.66	QP	
	16	10.0000	12.87	0.14	13.01	50.00	-36.99	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

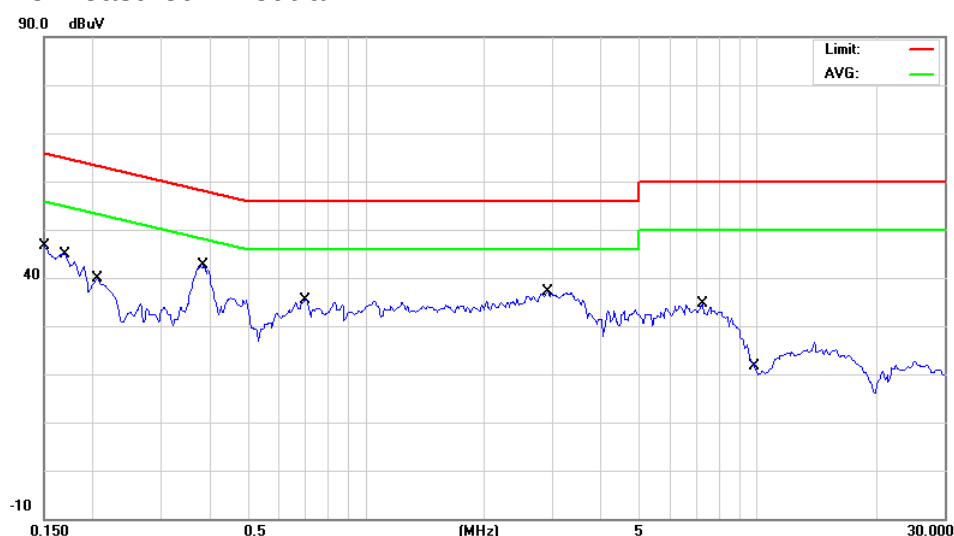
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 94 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH157 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	44.28	0.07	44.35	66.00	-21.65	QP	
	2	0.1500	31.61	0.07	31.68	56.00	-24.32	AVG	
	3	0.1700	42.06	0.04	42.10	64.96	-22.86	QP	
	4	0.1700	30.25	0.04	30.29	54.96	-24.67	AVG	
	5	0.2050	36.92	-0.01	36.91	63.41	-26.50	QP	
	6	0.2050	23.97	-0.01	23.96	53.41	-29.45	AVG	
	7	0.3850	40.80	0.11	40.91	58.17	-17.26	QP	
*	8	0.3850	32.24	0.11	32.35	48.17	-15.82	AVG	
	9	0.7000	31.60	0.08	31.68	56.00	-24.32	QP	
	10	0.7000	19.45	0.08	19.53	46.00	-26.47	AVG	
	11	2.9050	31.96	0.13	32.09	56.00	-23.91	QP	
	12	2.9050	24.25	0.13	24.38	46.00	-21.62	AVG	
	13	7.2150	29.28	0.22	29.50	60.00	-30.50	QP	
	14	7.2150	22.41	0.22	22.63	50.00	-27.37	AVG	
	15	10.0000	15.84	0.32	16.16	60.00	-43.84	QP	
	16	10.0000	10.03	0.32	10.35	50.00	-39.65	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 95 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

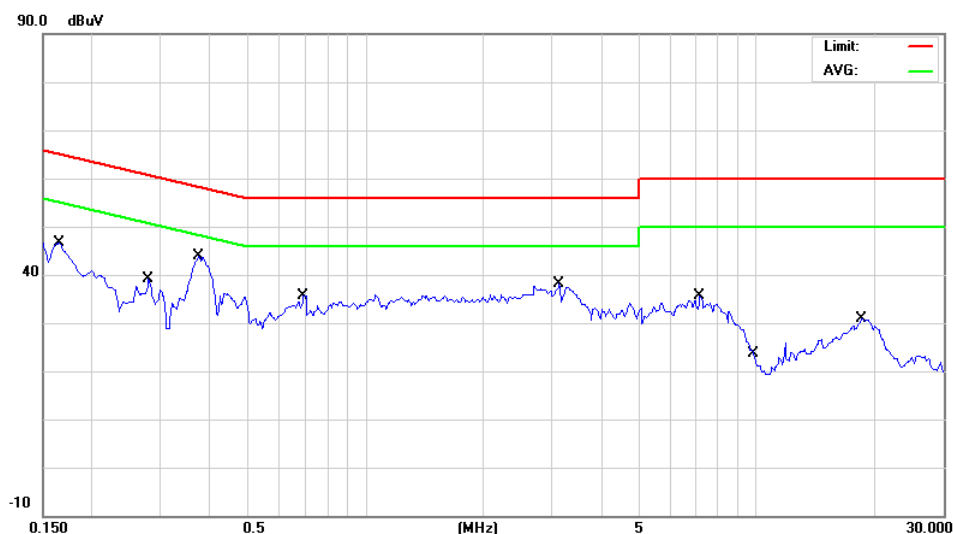
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH165
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	43.18	-0.12	43.06	65.21	-22.15	QP	
	2	0.1650	30.88	-0.12	30.76	55.21	-24.45	AVG	
	3	0.2800	34.46	-0.13	34.33	60.82	-26.49	QP	
	4	0.2800	25.29	-0.13	25.16	50.82	-25.66	AVG	
	5	0.3750	42.16	-0.14	42.02	58.39	-16.37	QP	
*	6	0.3750	34.04	-0.14	33.90	48.39	-14.49	AVG	
	7	0.6950	33.10	-0.11	32.99	56.00	-23.01	QP	
	8	0.6950	21.28	-0.11	21.17	46.00	-24.83	AVG	
	9	3.1350	33.82	0.05	33.87	56.00	-22.13	QP	
	10	3.1350	25.82	0.05	25.87	46.00	-20.13	AVG	
	11	7.1600	29.56	0.13	29.69	60.00	-30.31	QP	
	12	7.1600	22.66	0.13	22.79	50.00	-27.21	AVG	
	13	10.0000	18.28	0.14	18.42	60.00	-41.58	QP	
	14	10.0000	12.87	0.14	13.01	50.00	-36.99	AVG	
	15	18.5500	25.66	0.46	26.12	60.00	-33.88	QP	
	16	18.5500	20.19	0.46	20.65	50.00	-29.35	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

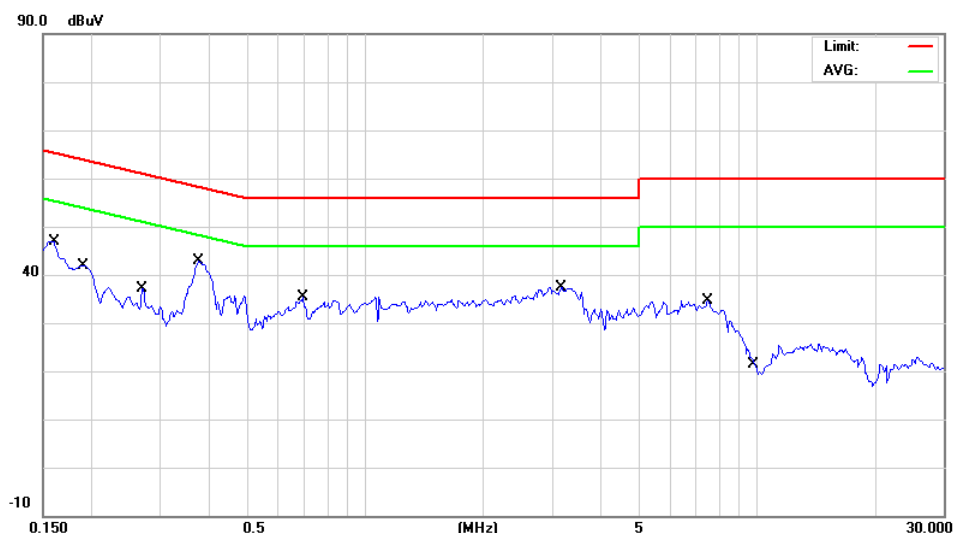
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 96 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH165 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	42.84	0.05	42.89	65.46	-22.57	QP	
	2	0.1600	28.60	0.05	28.65	55.46	-26.81	AVG	
	3	0.1900	38.42	0.01	38.43	64.04	-25.61	QP	
	4	0.1900	24.97	0.01	24.98	54.04	-29.06	AVG	
	5	0.2700	30.94	0.04	30.98	61.12	-30.14	QP	
	6	0.2700	21.84	0.04	21.88	51.12	-29.24	AVG	
	7	0.3750	40.60	0.10	40.70	58.39	-17.69	QP	
*	8	0.3750	32.41	0.10	32.51	48.39	-15.88	AVG	
	9	0.6950	32.76	0.08	32.84	56.00	-23.16	QP	
	10	0.6950	20.83	0.08	20.91	46.00	-25.09	AVG	
	11	3.1600	32.98	0.13	33.11	56.00	-22.89	QP	
	12	3.1600	24.91	0.13	25.04	46.00	-20.96	AVG	
	13	7.5000	29.20	0.24	29.44	60.00	-30.56	QP	
	14	7.5000	22.58	0.24	22.82	50.00	-27.18	AVG	
	15	10.0000	15.72	0.32	16.04	60.00	-43.96	QP	
	16	10.0000	9.94	0.32	10.26	50.00	-39.74	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 97 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

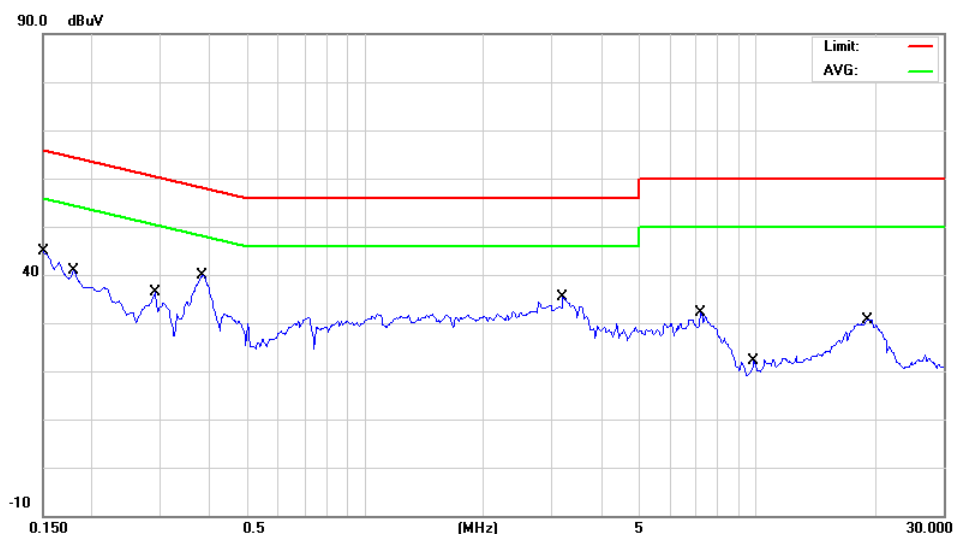
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH149
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.60	-0.12	42.48	66.00	-23.52	QP	
	2	0.1500	28.43	-0.12	28.31	56.00	-27.69	AVG	
	3	0.1800	37.20	-0.11	37.09	64.49	-27.40	QP	
	4	0.1800	23.90	-0.11	23.79	54.49	-30.70	AVG	
	5	0.2900	31.52	-0.13	31.39	60.52	-29.13	QP	
	6	0.2900	21.52	-0.13	21.39	50.52	-29.13	AVG	
	7	0.3850	38.70	-0.15	38.55	58.17	-19.62	QP	
*	8	0.3850	30.36	-0.15	30.21	48.17	-17.96	AVG	
	9	3.2050	30.94	0.06	31.00	56.00	-25.00	QP	
	10	3.2050	22.58	0.06	22.64	46.00	-23.36	AVG	
	11	7.2000	26.52	0.13	26.65	60.00	-33.35	QP	
	12	7.2000	19.51	0.13	19.64	50.00	-30.36	AVG	
	13	10.0000	15.38	0.14	15.52	60.00	-44.48	QP	
	14	10.0000	9.85	0.14	9.99	50.00	-40.01	AVG	
	15	19.1950	26.24	0.50	26.74	60.00	-33.26	QP	
	16	19.1950	20.67	0.50	21.17	50.00	-28.83	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

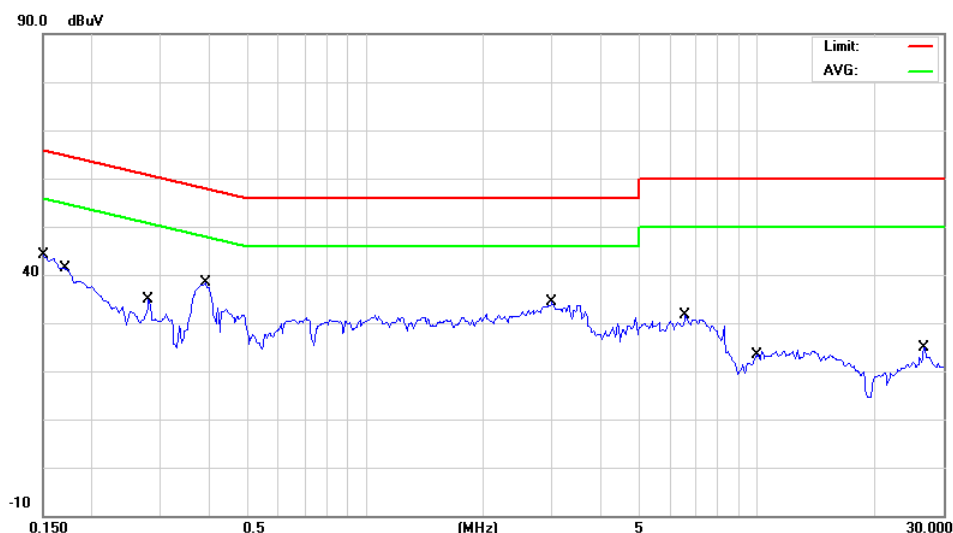
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 98 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH149 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	41.72	0.07	41.79	66.00	-24.21	QP	
	2	0.1500	27.58	0.07	27.65	56.00	-28.35	AVG	
	3	0.1722	38.16	0.03	38.19	64.85	-26.66	QP	
	4	0.1722	24.85	0.03	24.88	54.85	-29.97	AVG	
	5	0.2800	28.38	0.04	28.42	60.82	-32.40	QP	
	6	0.2800	19.33	0.04	19.37	50.82	-31.45	AVG	
	7	0.3900	36.42	0.11	36.53	58.06	-21.53	QP	
*	8	0.3900	28.35	0.11	28.46	48.06	-19.60	AVG	
	9	2.9950	29.74	0.13	29.87	56.00	-26.13	QP	
	10	2.9950	21.37	0.13	21.50	46.00	-24.50	AVG	
	11	6.5600	26.52	0.20	26.72	60.00	-33.28	QP	
	12	6.5600	18.63	0.20	18.83	50.00	-31.17	AVG	
	13	10.0000	17.62	0.32	17.94	60.00	-42.06	QP	
	14	10.0000	11.78	0.32	12.10	50.00	-37.90	AVG	
	15	26.8300	16.48	0.71	17.19	60.00	-42.81	QP	
	16	26.8300	10.87	0.71	11.58	50.00	-38.42	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

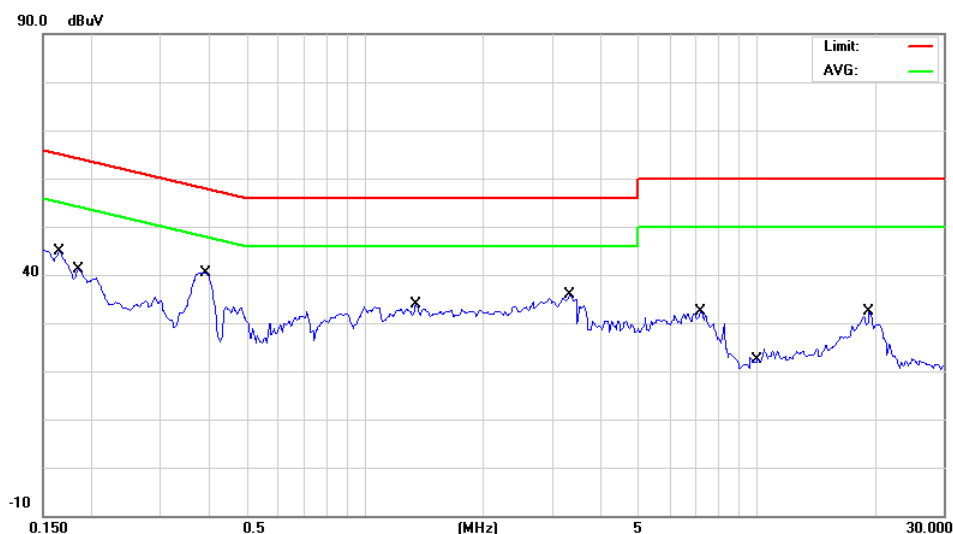
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 99 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT20_CH157 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	40.78	-0.12	40.66	65.21	-24.55	QP	
	2	0.1650	30.25	-0.12	30.13	55.21	-25.08	AVG	
	3	0.1850	37.26	-0.11	37.15	64.26	-27.11	QP	
	4	0.1850	25.53	-0.11	25.42	54.26	-28.84	AVG	
	5	0.3900	39.42	-0.15	39.27	58.06	-18.79	QP	
*	6	0.3900	31.23	-0.15	31.08	48.06	-16.98	AVG	
	7	1.3450	29.44	-0.05	29.39	56.00	-26.61	QP	
	8	1.3450	21.42	-0.05	21.37	46.00	-24.63	AVG	
	9	3.3250	32.14	0.07	32.21	56.00	-23.79	QP	
	10	3.3250	23.38	0.07	23.45	46.00	-22.55	AVG	
	11	7.1950	27.42	0.13	27.55	60.00	-32.45	QP	
	12	7.1950	20.62	0.13	20.75	50.00	-29.25	AVG	
	13	10.0000	16.44	0.14	16.58	60.00	-43.42	QP	
	14	10.0000	11.03	0.14	11.17	50.00	-38.83	AVG	
	15	19.4200	26.10	0.50	26.60	60.00	-33.40	QP	
	16	19.4200	20.62	0.50	21.12	50.00	-28.88	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 100 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

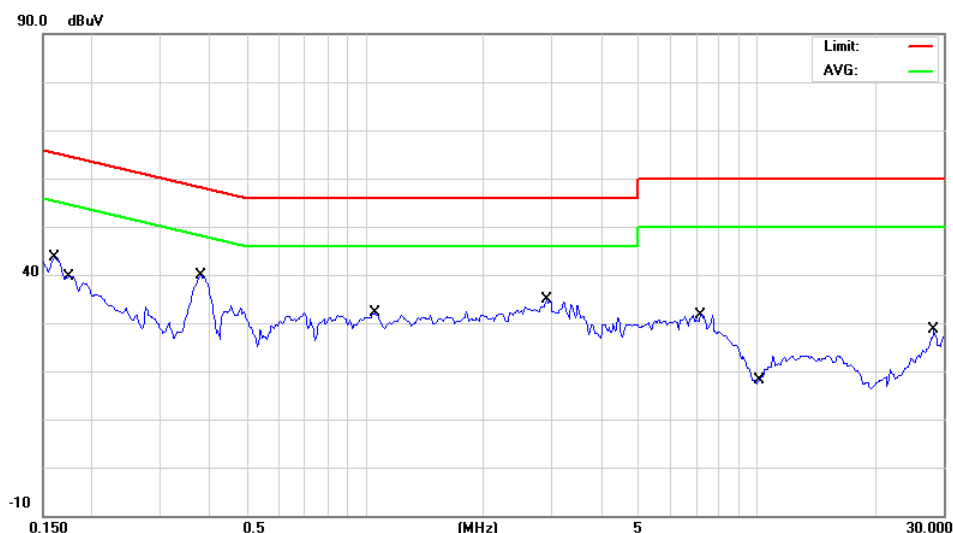
Humidity: 67 %RH

Frequency Range: 0.15 – 30 MHz

Tested Mode: 5.8G
802.11ac - HT20_CH157
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1600	39.82	0.05	39.87	65.46	-25.59	QP	
	2	0.1600	27.25	0.05	27.30	55.46	-28.16	AVG	
	3	0.1750	36.82	0.03	36.85	64.72	-27.87	QP	
	4	0.1750	22.91	0.03	22.94	54.72	-31.78	AVG	
	5	0.3800	37.70	0.11	37.81	58.28	-20.47	QP	
*	6	0.3800	29.32	0.11	29.43	48.28	-18.85	AVG	
	7	1.0550	29.42	0.05	29.47	56.00	-26.53	QP	
	8	1.0550	19.20	0.05	19.25	46.00	-26.75	AVG	
	9	2.9150	29.72	0.13	29.85	56.00	-26.15	QP	
	10	2.9150	21.70	0.13	21.83	46.00	-24.17	AVG	
	11	7.2100	27.20	0.21	27.41	60.00	-32.59	QP	
	12	7.2100	20.14	0.21	20.35	50.00	-29.65	AVG	
	13	10.0000	16.98	0.32	17.30	60.00	-42.70	QP	
	14	10.0000	11.11	0.32	11.43	50.00	-38.57	AVG	
	15	28.4150	15.76	0.75	16.51	60.00	-43.49	QP	
	16	28.4150	10.03	0.75	10.78	50.00	-39.22	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 101 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

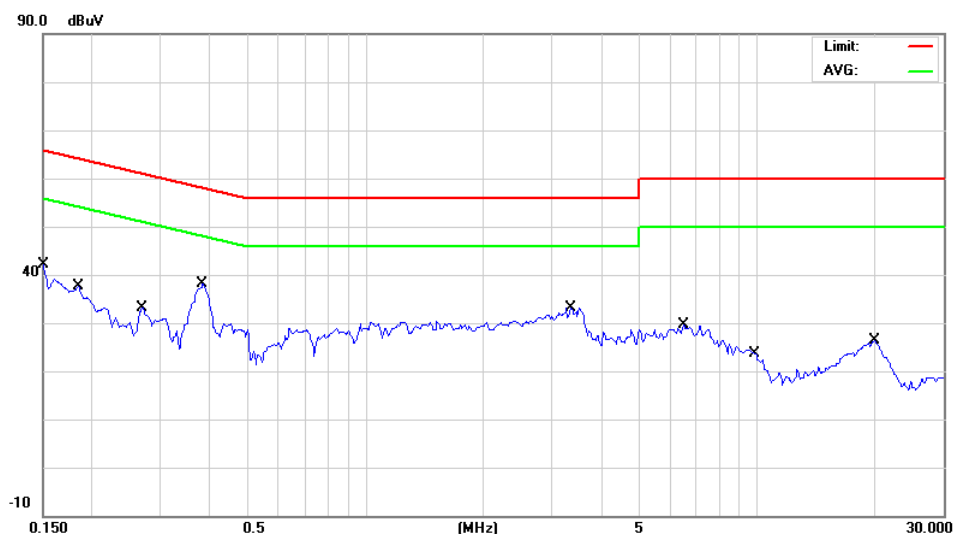
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT20_CH165
(MIMO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	39.76	-0.12	39.64	66.00	-26.36	QP	
	2	0.1500	26.59	-0.12	26.47	56.00	-29.53	AVG	
	3	0.1850	34.80	-0.11	34.69	64.26	-29.57	QP	
	4	0.1850	22.75	-0.11	22.64	54.26	-31.62	AVG	
	5	0.2700	29.22	-0.12	29.10	61.12	-32.02	QP	
	6	0.2700	20.36	-0.12	20.24	51.12	-30.88	AVG	
	7	0.3850	38.28	-0.15	38.13	58.17	-20.04	QP	
*	8	0.3850	29.55	-0.15	29.40	48.17	-18.77	AVG	
	9	3.3550	30.62	0.07	30.69	56.00	-25.31	QP	
	10	3.3550	21.89	0.07	21.96	46.00	-24.04	AVG	
	11	6.5150	25.94	0.14	26.08	60.00	-33.92	QP	
	12	6.5150	18.36	0.14	18.50	50.00	-31.50	AVG	
	13	10.0000	20.14	0.14	20.28	60.00	-39.72	QP	
	14	10.0000	14.81	0.14	14.95	50.00	-35.05	AVG	
	15	20.0200	22.84	0.52	23.36	60.00	-36.64	QP	
	16	20.0200	17.05	0.52	17.57	50.00	-32.43	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

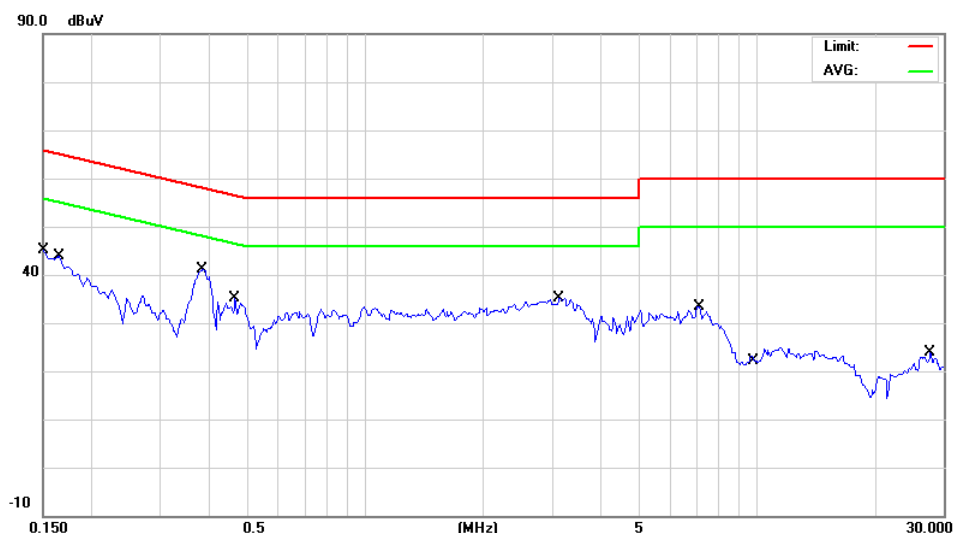
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 102 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT20_CH165 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	41.96	0.07	42.03	66.00	-23.97	QP	
	2	0.1500	28.68	0.07	28.75	56.00	-27.25	AVG	
	3	0.1650	40.46	0.05	40.51	65.21	-24.70	QP	
	4	0.1650	29.24	0.05	29.29	55.21	-25.92	AVG	
	5	0.3850	39.12	0.11	39.23	58.17	-18.94	QP	
*	6	0.3850	30.25	0.11	30.36	48.17	-17.81	AVG	
	7	0.4650	30.50	0.11	30.61	56.60	-25.99	QP	
	8	0.4650	21.89	0.11	22.00	46.60	-24.60	AVG	
	9	3.1250	31.58	0.13	31.71	56.00	-24.29	QP	
	10	3.1250	23.22	0.13	23.35	46.00	-22.65	AVG	
	11	7.1550	27.90	0.21	28.11	60.00	-31.89	QP	
	12	7.1550	20.88	0.21	21.09	50.00	-28.91	AVG	
	13	10.0000	17.54	0.32	17.86	60.00	-42.14	QP	
	14	10.0000	11.56	0.32	11.88	50.00	-38.12	AVG	
	15	27.8000	17.30	0.74	18.04	60.00	-41.96	QP	
	16	27.8000	11.49	0.74	12.23	50.00	-37.77	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

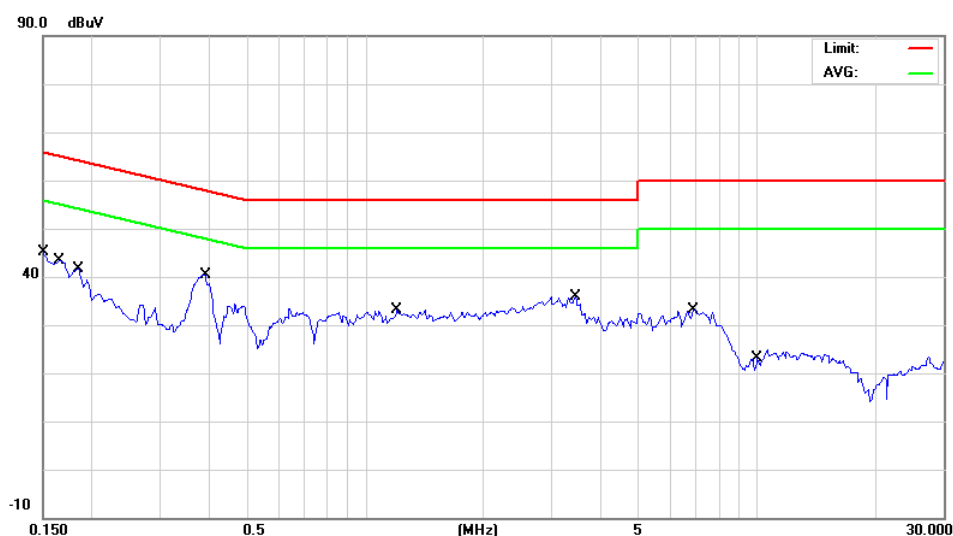
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 103 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT40_CH151 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.30	-0.12	42.18	66.00	-23.82	QP	
	2	0.1500	28.43	-0.12	28.31	56.00	-27.69	AVG	
	3	0.1650	40.82	-0.12	40.70	65.21	-24.51	QP	
	4	0.1650	29.32	-0.12	29.20	55.21	-26.01	AVG	
	5	0.1850	36.86	-0.11	36.75	64.26	-27.51	QP	
	6	0.1850	23.45	-0.11	23.34	54.26	-30.92	AVG	
	7	0.3900	38.62	-0.15	38.47	58.06	-19.59	QP	
*	8	0.3900	29.77	-0.15	29.62	48.06	-18.44	AVG	
	9	1.2050	29.22	-0.06	29.16	56.00	-26.84	QP	
	10	1.2050	21.13	-0.06	21.07	46.00	-24.93	AVG	
	11	3.4400	31.70	0.08	31.78	56.00	-24.22	QP	
	12	3.4400	22.83	0.08	22.91	46.00	-23.09	AVG	
	13	6.9100	28.06	0.14	28.20	60.00	-31.80	QP	
	14	6.9100	20.93	0.14	21.07	50.00	-28.93	AVG	
	15	10.0000	17.54	0.14	17.68	60.00	-42.32	QP	
	16	10.0000	11.56	0.14	11.70	50.00	-38.30	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

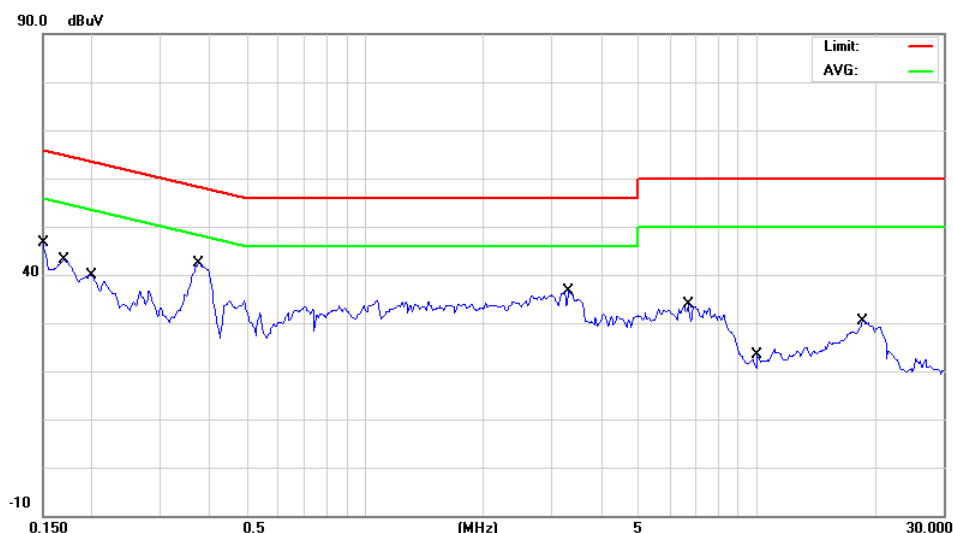
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 104 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH151 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.06	0.07	43.13	66.00	-22.87	QP	
	2	0.1500	29.55	0.07	29.62	56.00	-26.38	AVG	
	3	0.1700	40.74	0.04	40.78	64.96	-24.18	QP	
	4	0.1700	28.77	0.04	28.81	54.96	-26.15	AVG	
	5	0.2000	36.54	-0.01	36.53	63.61	-27.08	QP	
	6	0.2000	24.04	-0.01	24.03	53.61	-29.58	AVG	
	7	0.3750	40.72	0.10	40.82	58.39	-17.57	QP	
*	8	0.3750	32.50	0.10	32.60	48.39	-15.79	AVG	
	9	3.3000	32.94	0.13	33.07	56.00	-22.93	QP	
	10	3.3000	24.38	0.13	24.51	46.00	-21.49	AVG	
	11	6.6650	28.10	0.20	28.30	60.00	-31.70	QP	
	12	6.6650	20.57	0.20	20.77	50.00	-29.23	AVG	
	13	10.0000	16.60	0.32	16.92	60.00	-43.08	QP	
	14	10.0000	11.11	0.32	11.43	50.00	-38.57	AVG	
	15	18.6900	25.36	0.52	25.88	60.00	-34.12	QP	
	16	18.6900	19.86	0.52	20.38	50.00	-29.62	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 105 of 420
Date: Dec. 28, 2017

Temperature: 24 °C

Humidity: 67 %RH

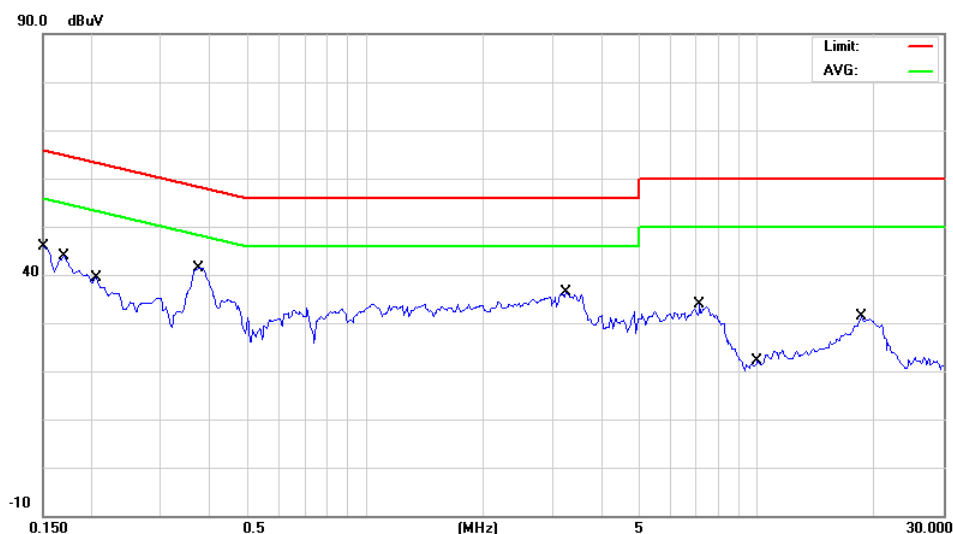
5.8G

Frequency Range: 0.15 – 30 MHz

Tested Mode: 802.11ac - HT40_CH159
(SISO)

Receiver Detector: Q.P. and AV.

Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.16	-0.12	43.04	66.00	-22.96	QP	
	2	0.1500	29.47	-0.12	29.35	56.00	-26.65	AVG	
	3	0.1700	40.68	-0.12	40.56	64.96	-24.40	QP	
	4	0.1700	29.09	-0.12	28.97	54.96	-25.99	AVG	
	5	0.2050	35.22	-0.11	35.11	63.41	-28.30	QP	
	6	0.2050	23.45	-0.11	23.34	53.41	-30.07	AVG	
	7	0.3750	40.46	-0.14	40.32	58.39	-18.07	QP	
*	8	0.3750	32.24	-0.14	32.10	48.39	-16.29	AVG	
	9	3.2450	32.26	0.06	32.32	56.00	-23.68	QP	
	10	3.2450	24.11	0.06	24.17	46.00	-21.83	AVG	
	11	7.1700	28.34	0.13	28.47	60.00	-31.53	QP	
	12	7.1700	21.23	0.13	21.36	50.00	-28.64	AVG	
	13	10.0000	16.94	0.14	17.08	60.00	-42.92	QP	
	14	10.0000	11.34	0.14	11.48	50.00	-38.52	AVG	
	15	18.4450	25.98	0.46	26.44	60.00	-33.56	QP	
	16	18.4450	20.52	0.46	20.98	50.00	-29.02	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

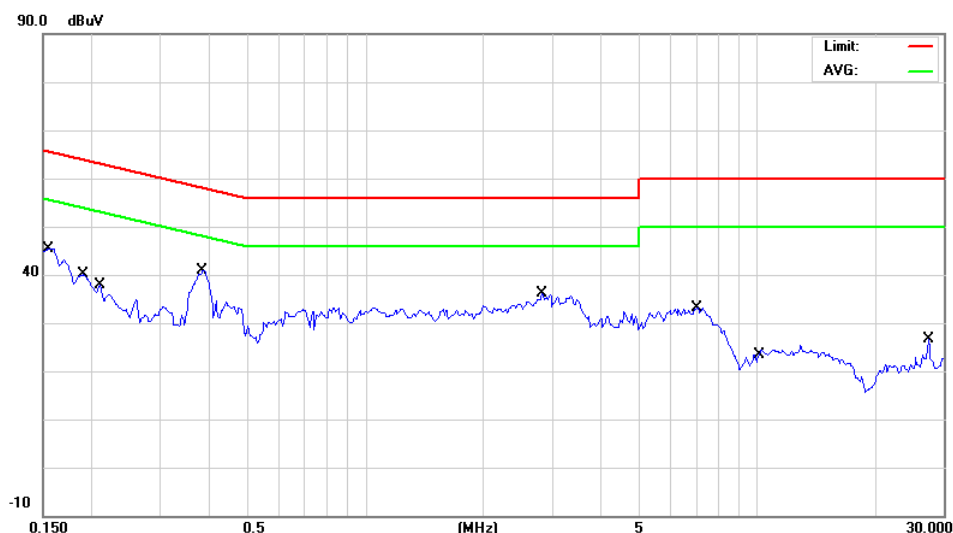
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 106 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH159 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.00	0.06	42.06	65.73	-23.67	QP	
	2	0.1550	27.82	0.06	27.88	55.73	-27.85	AVG	
	3	0.1900	36.72	0.01	36.73	64.04	-27.31	QP	
	4	0.1900	24.72	0.01	24.73	54.04	-29.31	AVG	
	5	0.2100	33.72	0.00	33.72	63.21	-29.49	QP	
	6	0.2100	22.50	0.00	22.50	53.21	-30.71	AVG	
	7	0.3850	39.26	0.11	39.37	58.17	-18.80	QP	
*	8	0.3850	30.36	0.11	30.47	48.17	-17.70	AVG	
	9	2.8350	30.14	0.14	30.28	56.00	-25.72	QP	
	10	2.8350	22.11	0.14	22.25	46.00	-23.75	AVG	
	11	7.0450	28.54	0.21	28.75	60.00	-31.25	QP	
	12	7.0450	21.37	0.21	21.58	50.00	-28.42	AVG	
	13	10.0000	18.60	0.32	18.92	60.00	-41.08	QP	
	14	10.0000	12.74	0.32	13.06	50.00	-36.94	AVG	
	15	27.4500	18.52	0.72	19.24	60.00	-40.76	QP	
	16	27.4500	12.93	0.72	13.65	50.00	-36.35	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

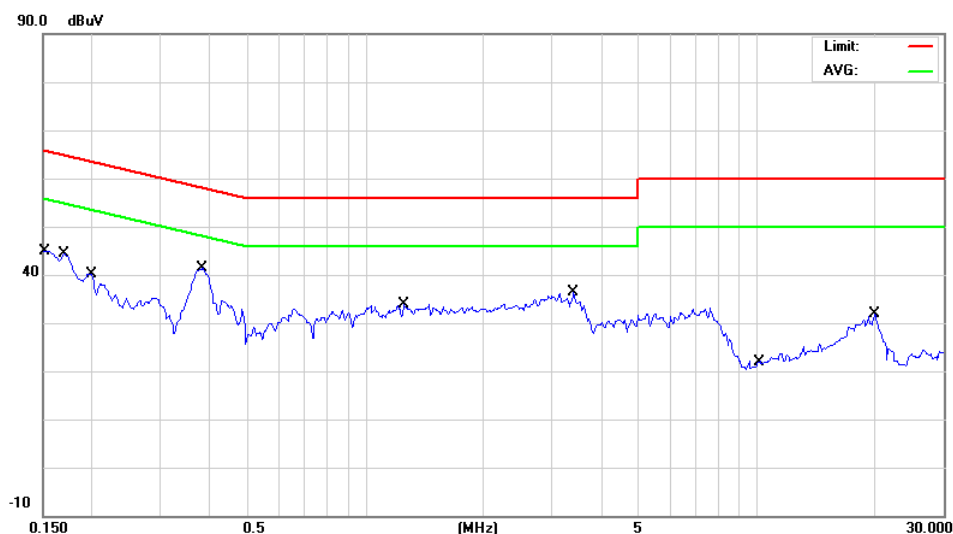
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 107 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT40_CH151 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.64	-0.12	42.52	66.00	-23.48	QP	
	2	0.1500	29.09	-0.12	28.97	56.00	-27.03	AVG	
	3	0.1700	40.38	-0.12	40.26	64.96	-24.70	QP	
	4	0.1700	28.77	-0.12	28.65	54.96	-26.31	AVG	
	5	0.2000	36.12	-0.11	36.01	63.61	-27.60	QP	
	6	0.2000	23.82	-0.11	23.71	53.61	-29.90	AVG	
	7	0.3850	40.22	-0.15	40.07	58.17	-18.10	QP	
*	8	0.3850	31.56	-0.15	31.41	48.17	-16.76	AVG	
	9	1.2550	30.30	-0.05	30.25	56.00	-25.75	QP	
	10	1.2550	21.03	-0.05	20.98	46.00	-25.02	AVG	
	11	3.4100	32.22	0.07	32.29	56.00	-23.71	QP	
	12	3.4100	23.75	0.07	23.82	46.00	-22.18	AVG	
	13	10.0000	16.92	0.14	17.06	60.00	-42.94	QP	
	14	10.0000	11.34	0.14	11.48	50.00	-38.52	AVG	
	15	20.0450	25.26	0.52	25.78	60.00	-34.22	QP	
	16	20.0450	19.51	0.52	20.03	50.00	-29.97	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

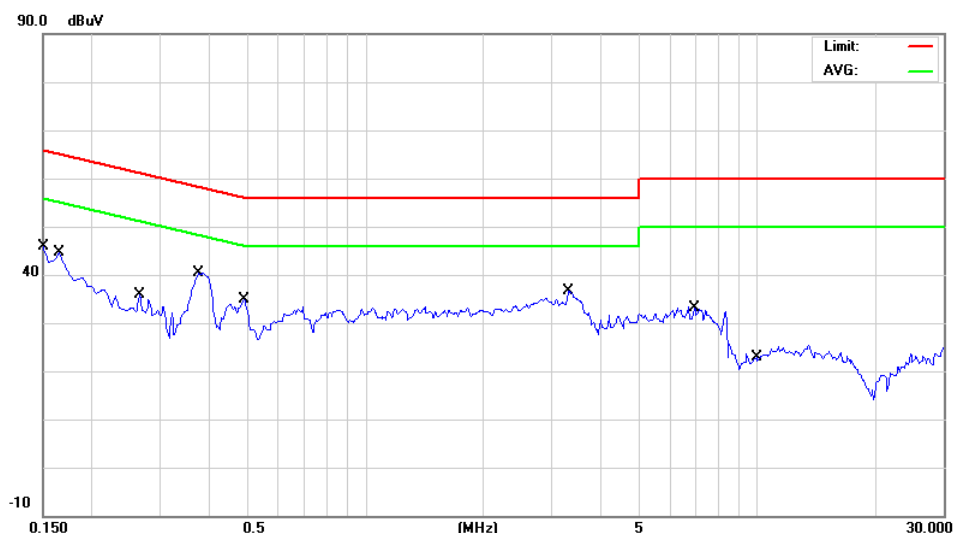
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 108 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH151 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.24	0.07	42.31	66.00	-23.69	QP	
	2	0.1500	29.47	0.07	29.54	56.00	-26.46	AVG	
	3	0.1650	40.90	0.05	40.95	65.21	-24.26	QP	
	4	0.1650	29.09	0.05	29.14	55.21	-26.07	AVG	
	5	0.2650	28.90	0.03	28.93	61.27	-32.34	QP	
	6	0.2650	19.45	0.03	19.48	51.27	-31.79	AVG	
	7	0.3750	38.68	0.10	38.78	58.39	-19.61	QP	
*	8	0.3750	30.46	0.10	30.56	48.39	-17.83	AVG	
	9	0.4900	31.44	0.11	31.55	56.17	-24.62	QP	
	10	0.4900	19.33	0.11	19.44	46.17	-26.73	AVG	
	11	3.3050	32.06	0.12	32.18	56.00	-23.82	QP	
	12	3.3050	23.68	0.12	23.80	46.00	-22.20	AVG	
	13	6.9350	28.18	0.21	28.39	60.00	-31.61	QP	
	14	6.9350	21.13	0.21	21.34	50.00	-28.66	AVG	
	15	10.0000	18.16	0.32	18.48	60.00	-41.52	QP	
	16	10.0000	12.41	0.32	12.73	50.00	-37.27	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

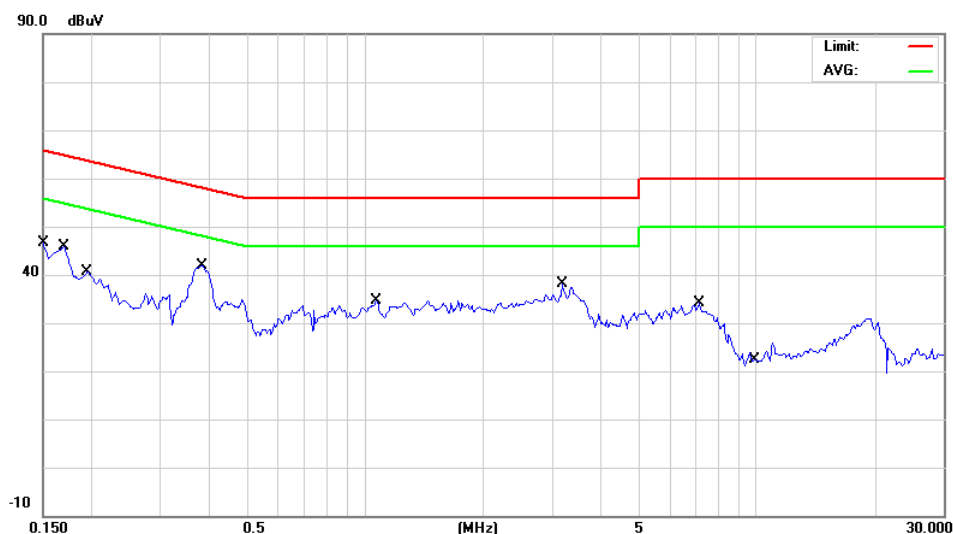
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 109 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT40_CH159 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	43.32	-0.12	43.20	66.00	-22.80	QP	
	2	0.1500	30.03	-0.12	29.91	56.00	-26.09	AVG	
	3	0.1700	41.08	-0.12	40.96	64.96	-24.00	QP	
	4	0.1700	29.62	-0.12	29.50	54.96	-25.46	AVG	
	5	0.1950	37.24	-0.11	37.13	63.82	-26.69	QP	
	6	0.1950	26.59	-0.11	26.48	53.82	-27.34	AVG	
	7	0.3850	40.54	-0.15	40.39	58.17	-17.78	QP	
*	8	0.3850	31.93	-0.15	31.78	48.17	-16.39	AVG	
	9	1.0700	31.58	-0.05	31.53	56.00	-24.47	QP	
	10	1.0700	21.13	-0.05	21.08	46.00	-24.92	AVG	
	11	3.1800	32.58	0.05	32.63	56.00	-23.37	QP	
	12	3.1800	24.52	0.05	24.57	46.00	-21.43	AVG	
	13	7.1100	28.74	0.13	28.87	60.00	-31.13	QP	
	14	7.1100	21.80	0.13	21.93	50.00	-28.07	AVG	
	15	10.0000	17.56	0.14	17.70	60.00	-42.30	QP	
	16	10.0000	11.71	0.14	11.85	50.00	-38.15	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

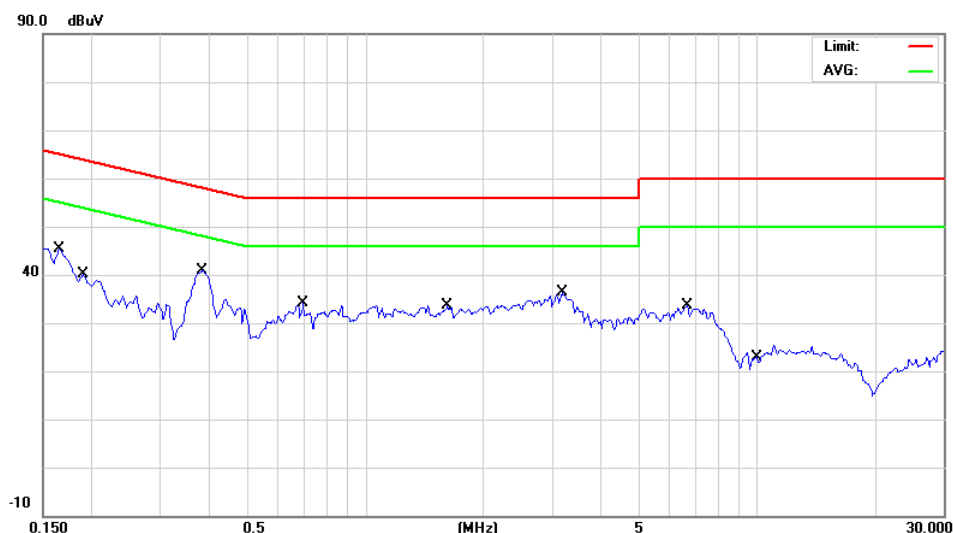
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 110 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT40_CH159 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	41.02	0.05	41.07	65.21	-24.14	QP	
	2	0.1650	29.40	0.05	29.45	55.21	-25.76	AVG	
	3	0.1900	36.80	0.01	36.81	64.04	-27.23	QP	
	4	0.1900	24.97	0.01	24.98	54.04	-29.06	AVG	
	5	0.3850	39.00	0.11	39.11	58.17	-19.06	QP	
*	6	0.3850	30.41	0.11	30.52	48.17	-17.65	AVG	
	7	0.6950	30.62	0.08	30.70	56.00	-25.30	QP	
	8	0.6950	18.95	0.08	19.03	46.00	-26.97	AVG	
	9	1.6250	29.70	0.12	29.82	56.00	-26.18	QP	
	10	1.6250	21.23	0.12	21.35	46.00	-24.65	AVG	
	11	3.1750	32.00	0.13	32.13	56.00	-23.87	QP	
	12	3.1750	23.90	0.13	24.03	46.00	-21.97	AVG	
	13	6.6350	28.34	0.20	28.54	60.00	-31.46	QP	
	14	6.6350	20.93	0.20	21.13	50.00	-28.87	AVG	
	15	10.0000	18.20	0.32	18.52	60.00	-41.48	QP	
	16	10.0000	12.21	0.32	12.53	50.00	-37.47	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

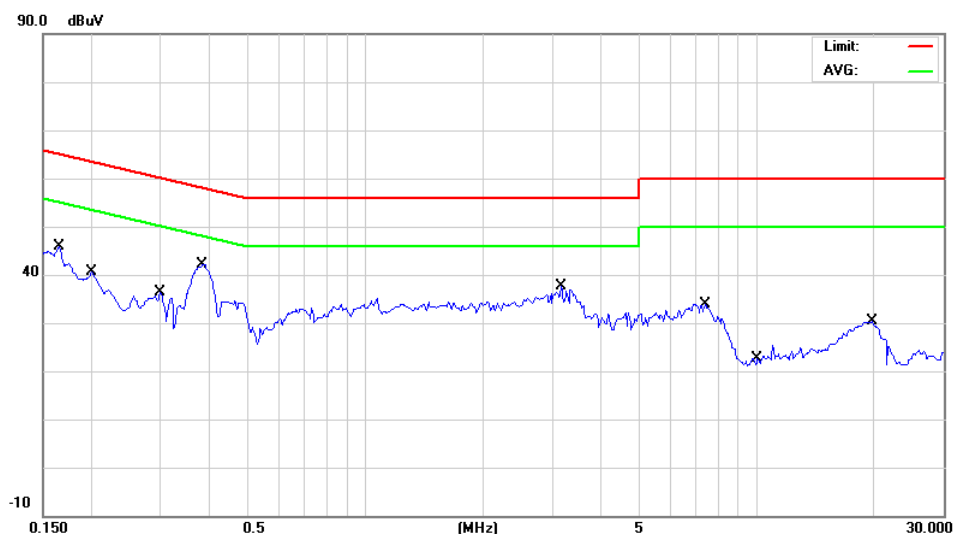
No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 111 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT80_CH155 (SISO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1650	41.76	-0.12	41.64	65.21	-23.57	QP	
	2	0.1650	30.57	-0.12	30.45	55.21	-24.76	AVG	
	3	0.2000	37.00	-0.11	36.89	63.61	-26.72	QP	
	4	0.2000	24.91	-0.11	24.80	53.61	-28.81	AVG	
	5	0.3000	32.58	-0.13	32.45	60.24	-27.79	QP	
	6	0.3000	21.75	-0.13	21.62	50.24	-28.62	AVG	
	7	0.3850	40.50	-0.15	40.35	58.17	-17.82	QP	
*	8	0.3850	32.11	-0.15	31.96	48.17	-16.21	AVG	
	9	3.1650	32.76	0.05	32.81	56.00	-23.19	QP	
	10	3.1650	24.72	0.05	24.77	46.00	-21.23	AVG	
	11	7.3800	28.68	0.14	28.82	60.00	-31.18	QP	
	12	7.3800	22.15	0.14	22.29	50.00	-27.71	AVG	
	13	10.0000	17.46	0.14	17.60	60.00	-42.40	QP	
	14	10.0000	11.78	0.14	11.92	50.00	-38.08	AVG	
	15	19.8200	25.60	0.52	26.12	60.00	-33.88	QP	
	16	19.8200	20.08	0.52	20.60	50.00	-29.40	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

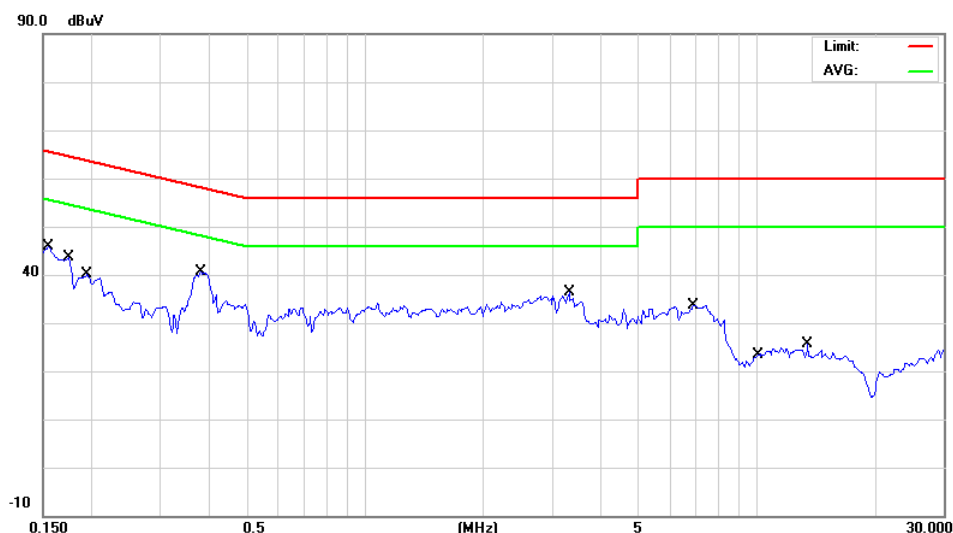
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 112 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT80_CH155 (SISO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.30	0.06	42.36	65.73	-23.37	QP	
	2	0.1550	28.35	0.06	28.41	55.73	-27.32	AVG	
	3	0.1750	39.04	0.03	39.07	64.72	-25.65	QP	
	4	0.1750	25.35	0.03	25.38	54.72	-29.34	AVG	
	5	0.1950	36.46	0.00	36.46	63.82	-27.36	QP	
	6	0.1950	24.59	0.00	24.59	53.82	-29.23	AVG	
	7	0.3800	39.42	0.11	39.53	58.28	-18.75	QP	
*	8	0.3800	31.28	0.11	31.39	48.28	-16.89	AVG	
	9	3.3150	32.36	0.12	32.48	56.00	-23.52	QP	
	10	3.3150	24.11	0.12	24.23	46.00	-21.77	AVG	
	11	6.9100	28.40	0.21	28.61	60.00	-31.39	QP	
	12	6.9100	21.37	0.21	21.58	50.00	-28.42	AVG	
	13	10.0000	18.26	0.32	18.58	60.00	-41.42	QP	
	14	10.0000	12.48	0.32	12.80	50.00	-37.20	AVG	
	15	13.5150	19.52	0.41	19.93	60.00	-40.07	QP	
	16	13.5150	14.06	0.41	14.47	50.00	-35.53	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

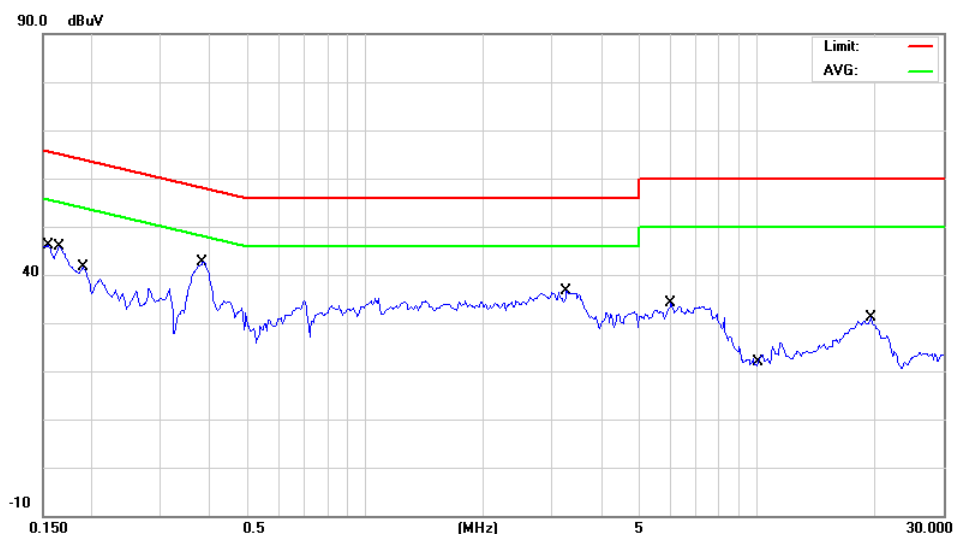
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 113 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
5.8G
Frequency Range: 0.15 – 30 MHz Tested Mode: 802.11ac - HT80_CH155 (MIMO)
Receiver Detector: Q.P. and AV. Tested Date: Nov. 09, 2017

Power Line Measured : Line

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1550	42.86	-0.12	42.74	65.73	-22.99	QP	
	2	0.1550	29.24	-0.12	29.12	55.73	-26.61	AVG	
	3	0.1650	42.00	-0.12	41.88	65.21	-23.33	QP	
	4	0.1650	30.57	-0.12	30.45	55.21	-24.76	AVG	
	5	0.1900	38.10	-0.11	37.99	64.04	-26.05	QP	
	6	0.1900	26.48	-0.11	26.37	54.04	-27.67	AVG	
	7	0.3850	40.90	-0.15	40.75	58.17	-17.42	QP	
*	8	0.3850	32.33	-0.15	32.18	48.17	-15.99	AVG	
	9	3.2700	32.66	0.06	32.72	56.00	-23.28	QP	
	10	3.2700	24.52	0.06	24.58	46.00	-21.42	AVG	
	11	6.0400	27.90	0.15	28.05	60.00	-31.95	QP	
	12	6.0400	20.14	0.15	20.29	50.00	-29.71	AVG	
	13	10.0000	17.94	0.14	18.08	60.00	-41.92	QP	
	14	10.0000	12.28	0.14	12.42	50.00	-37.58	AVG	
	15	19.5950	25.96	0.51	26.47	60.00	-33.53	QP	
	16	19.5950	20.41	0.51	20.92	50.00	-29.08	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

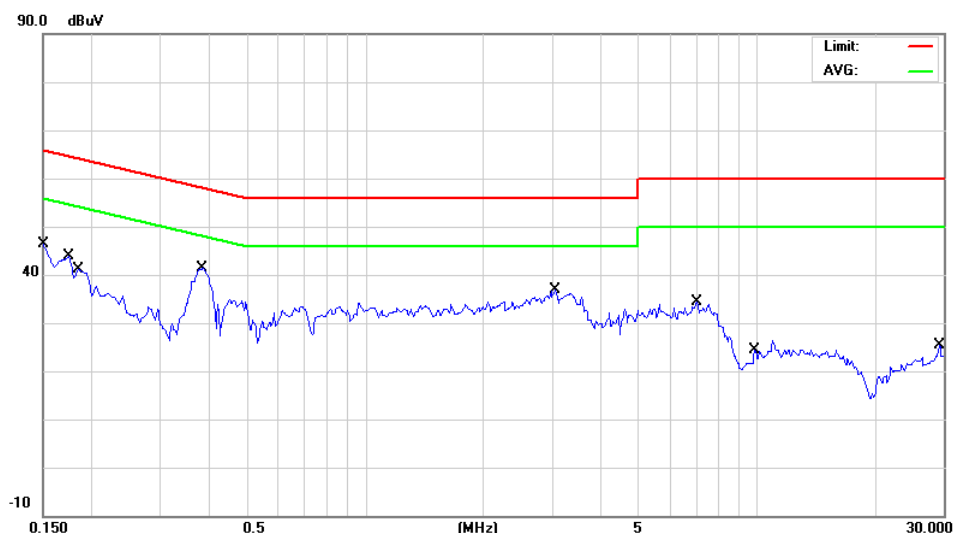
**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 114 of 420
Date: Dec. 28, 2017

Temperature: 24 °C Humidity: 67 %RH
Frequency Range: 0.15 – 30 MHz Tested Mode: 5.8G
Receiver Detector: Q.P. and AV. Tested Date: 802.11ac - HT80_CH155 (MIMO)
Nov. 09, 2017

Power Line Measured : Neutral

Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	42.78	0.07	42.85	66.00	-23.15	QP	
	2	0.1500	29.55	0.07	29.62	56.00	-26.38	AVG	
	3	0.1750	39.32	0.03	39.35	64.72	-25.37	QP	
	4	0.1750	25.59	0.03	25.62	54.72	-29.10	AVG	
	5	0.1850	37.36	0.01	37.37	64.26	-26.89	QP	
	6	0.1850	23.22	0.01	23.23	54.26	-31.03	AVG	
	7	0.3850	39.40	0.11	39.51	58.17	-18.66	QP	
*	8	0.3850	30.88	0.11	30.99	48.17	-17.18	AVG	
	9	3.0600	31.38	0.14	31.52	56.00	-24.48	QP	
	10	3.0600	23.22	0.14	23.36	46.00	-22.64	AVG	
	11	7.0350	28.78	0.21	28.99	60.00	-31.01	QP	
	12	7.0350	21.89	0.21	22.10	50.00	-27.90	AVG	
	13	10.0000	18.56	0.32	18.88	60.00	-41.12	QP	
	14	10.0000	12.61	0.32	12.93	50.00	-37.07	AVG	
	15	29.3550	19.90	0.78	20.68	60.00	-39.32	QP	
	16	29.3550	15.01	0.78	15.79	50.00	-34.21	AVG	

NOTE :

1. Measurement uncertainty is 2.92 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 115 of 420
Date: Dec. 28, 2017

4.2 RADIATED EMISSION TEST**4.2.1 LIMIT**

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	FIELD STRENGTH (microvolts/meter)	DISTANCE (m)	FIELD STRENGTH (dB μ V/m)
0.009 - 0.490	2400/F(kHz)	300	67.6-20log(kHz)
0.490 - 1.705	24000/F(kHz)	30	87.6-20log(kHz)
1.705 - 30	30	30	30
30 - 88	100	3	40.0
88 - 216	150	3	43.5
216 - 960	200	3	46.0
Above 960	500	3	54.0

NOTE:

1. 30 dBuV (in 30m) = 70 dBuV (in 3m).
2. In the emission tables above , the tighter limit applies at the band edges.
3. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

 Spectrum Research & Testing Lab., Inc. No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	TEST REPORT	Reference No.: A17103001 Report No.: FCCA17103001-03 FCC ID : AHL-ALMOND3S Page: 116 of 420 Date: Dec. 28, 2017
--	----------------------	---

4.2.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

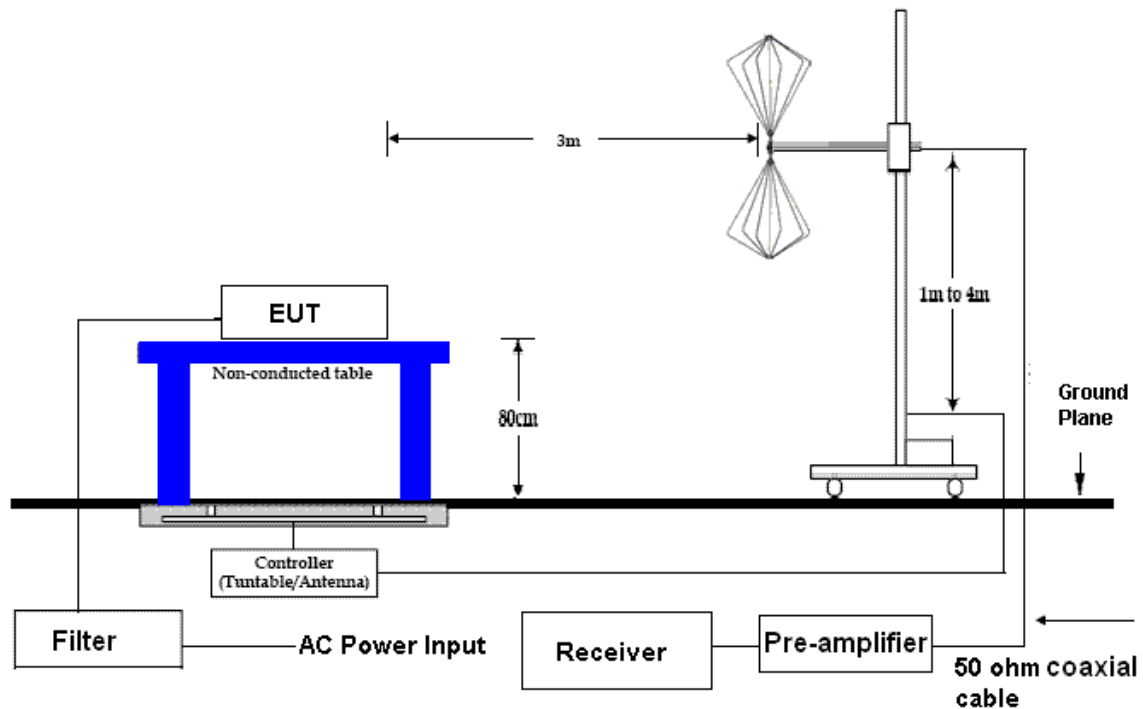
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	JAN. 02, 2018 ETC
SPECTRUM ANALYZER	9 kHz ~ 40GHz	ROHDE & SCHWARZ	FSP40 / 100093	JAN. 02, 2018 ETC
BICONICAL ANTENNA	30 MHz ~ 200 MHz	EMCO	3110/ 11966C	MAY 14, 2018 ETC
LOG PERIODIC ANTENNA	200 MHz ~ 1 GHz	EMCO	3146/ 9002-2686	OCT. 27, 2018 ETC
HORN ANTENNA	1 GHz ~ 18 GHz	EMCO	3115/ 9602-4681	NOV. 24, 2018 ETC
HORN ANTENNA	18 ~ 40 GHZ	ETS-LINDGREN	3116 /00032255	DEC. 25, 2018 ETC
PRE-AMPLIFIER	0.1 MHz ~ 1.3 GHz	HP	8447D / 2944A06746	NOV. 14, 2018 ETC
PRE-AMPLIFIER	1 GHz ~ 26.5 GHz	AGILENT	8449B/ 3008A01995	DEC. 29, 2018 ETC
OPEN AREA TEST SITE	3 – 10 M MEASUREMENT	SRT	A02 / SRT002	MAR. 09, 2018 SRT
ANECHOIC CHAMBER	3 M MEASUREMENT	SRT	A01 / SRT001	SEP. 13, 2018 SRT
COAXIAL CABLE	30 M	TIMES	LMR-400 / #30M(L1TCAB014)	MAY 08, 2018 ETC
K-TYPE CABLE	UP TO 40 GHz 3 m	HUBER+SUHNE R	SF102-46/2*11SK 252 /MY2611/2	FEB. 23, 2018 ETC
K-TYPE CABLE	UP TO 40 GHz, 1 m	HUBER+SUHNE R	SF102/2*11SK252 /MY3331/2	SEP. 28, 2018 ETC
FILTER	2 LINE, 30 A	FIL.COIL	FC-943/ 869	NCR
THERMO-HYGR O	15 – 40 °C, 0- 100% RH	TOP	20-A / 7685	SEP. 17, 2018 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

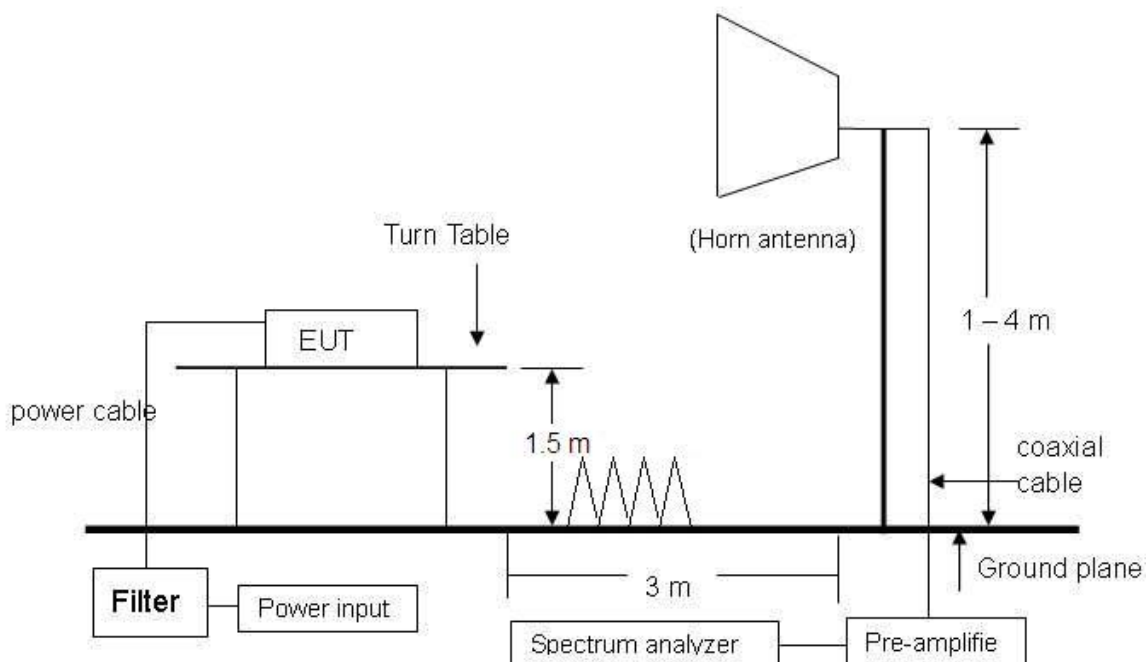


4.2.3 TEST SET-UP

30 MHz ~ 1 GHz



Above 1 GHz



NOTE: The EUT system was put on a wooden table with 1.5m heights above a ground plane.
For the actual test configuration, please refer to the photos of testing.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 118 of 420
Date: Dec. 28, 2017

4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and CISPR 22:2003. When the frequency spectrum measured started from 30 MHz to 1 GHz, then use antenna is a BICONICAL ANTENNA & LOG PERIODIC ANTENNA. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 119 of 420
Date: Dec. 28, 2017

4.2.5 TEST RESULT

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.1G 802.11a_CH36
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.18	2.24	9.57	28.14	46.57	30.24	40	-9.76	352	3.66
442.21	4.68	17.56	28.09	43.10	37.26	46	-8.74	61	2.73
460.93	4.78	17.94	28.17	35.14	29.68	46	-16.32	283	2.67
498.02	5.00	19.11	28.36	34.18	29.93	46	-16.07	185	2.55
517.84	5.11	18.70	28.38	41.08	36.52	46	-9.48	204	2.49
749.31	6.42	21.73	28.15	34.14	34.14	46	-11.86	120	1.52

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
50.29	2.20	11.60	28.16	45.27	30.91	40	-9.09	15	1.11
67.03	2.27	7.30	28.11	52.82	34.28	40	-5.72	88	1.25
91.52	2.38	8.06	28.03	50.81	33.23	44	-10.27	19	1.33
174.67	2.91	16.06	27.67	36.56	27.85	44	-15.65	97	1.45
186.44	2.99	16.60	27.62	35.91	27.87	44	-15.63	28	2.48
749.81	6.42	21.73	28.15	33.75	33.75	46	-12.25	274	3.34

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 120 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.1G 802.11a_CH40
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
58.79	2.25	9.28	28.13	46.81	30.20	40	-9.80	224	3.64
173.92	2.90	16.02	27.68	36.55	27.79	44	-15.71	350	3.55
325.86	3.94	15.45	27.33	37.05	29.11	46	-16.89	272	3.08
499.43	5.00	19.21	28.37	41.68	37.53	46	-8.47	93	2.55
514.28	5.09	18.67	28.38	40.09	35.47	46	-10.53	193	2.50
748.31	6.42	21.75	28.15	33.51	33.53	46	-12.47	120	1.28

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
69.30	2.27	6.90	28.10	54.10	35.17	40	-4.83	258	1.02
88.77	2.36	7.48	28.04	50.94	32.75	44	-10.75	18	1.18
174.49	2.91	16.06	27.67	38.27	29.56	44	-13.94	27	1.45
466.02	4.81	18.02	28.20	37.21	31.84	46	-14.16	146	2.35
516.85	5.11	18.69	28.38	39.47	34.89	46	-11.11	351	2.51
748.36	6.42	21.75	28.15	35.59	35.61	46	-10.39	274	3.33

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 121 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.1G 802.11a_CH48
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.21	2.24	9.57	28.14	46.19	29.86	40	-10.14	10	3.68
175.48	2.92	16.10	27.67	35.87	27.21	44	-16.29	184	3.44
499.99	5.00	19.21	28.37	35.62	31.47	46	-14.53	174	2.55
516.52	5.11	18.69	28.38	38.25	33.67	46	-12.33	122	2.15
749.80	6.42	21.73	28.15	34.38	34.38	46	-11.62	341	1.77
799.17	6.68	21.85	27.97	29.85	30.41	46	-15.59	73	1.62

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
48.58	2.19	12.57	28.17	44.01	30.60	40	-9.40	107	1.07
67.62	2.27	7.30	28.11	54.46	35.92	40	-4.08	39	1.12
88.94	2.36	7.48	28.04	51.40	33.21	44	-10.29	313	1.18
190.13	3.01	16.80	27.60	34.96	27.17	44	-16.33	157	1.50
411.01	4.55	17.02	27.93	40.31	33.94	46	-12.06	249	2.18
749.44	6.42	21.73	28.15	35.33	35.33	46	-10.67	137	3.25

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 122 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH36 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.40	2.24	9.57	28.14	46.19	29.86	40	-10.14	331	3.63
164.91	2.86	15.54	27.72	36.78	27.46	44	-16.04	222	3.58
188.23	3.00	16.70	27.61	35.62	27.71	44	-15.79	350	2.51
499.17	5.00	19.21	28.37	35.62	31.47	46	-14.53	187	1.55
514.62	5.09	18.67	28.38	41.47	36.85	46	-9.15	194	1.30
748.37	6.42	21.75	28.15	34.21	34.23	46	-11.77	120	1.28

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
49.85	2.19	12.38	28.16	44.42	30.83	40	-9.17	14	1.06
67.02	2.27	7.30	28.11	54.20	35.66	40	-4.34	16	1.11
88.94	2.36	7.48	28.04	51.32	33.13	44	-10.37	189	1.18
171.18	2.89	15.94	27.69	38.60	29.74	44	-13.76	27	1.44
513.53	5.09	18.66	28.38	37.77	33.14	46	-12.86	151	2.50
749.71	6.42	21.73	28.15	33.69	33.69	46	-12.31	274	3.33

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 123 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH40 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
61.38	2.26	8.50	28.12	46.99	29.63	40	-10.37	354	3.60
149.60	2.77	14.75	27.78	48.05	37.78	44	-5.72	359	3.51
464.98	4.80	18.00	28.19	37.16	31.76	46	-14.24	85	2.65
499.21	5.00	19.21	28.37	37.32	33.17	46	-12.83	188	2.55
520.53	5.13	18.74	28.38	36.88	32.37	46	-13.63	191	2.48
749.02	6.42	21.73	28.15	32.28	32.28	46	-13.72	118	1.40

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
48.20	2.19	12.57	28.17	43.50	30.09	40	-9.91	214	1.06
67.81	2.27	7.30	28.11	54.73	36.19	40	-3.81	16	1.12
89.37	2.37	7.64	28.04	51.82	33.80	44	-9.70	118	1.18
410.56	4.54	17.00	27.93	40.18	33.79	46	-12.21	141	2.18
514.94	5.09	18.67	28.38	43.40	38.78	46	-7.22	51	2.50
749.66	6.42	21.73	28.15	34.19	34.19	46	-11.81	274	3.11

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 124 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH48 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.73	2.24	9.57	28.14	46.41	30.08	40	-9.92	352	3.66
463.14	4.80	17.98	28.19	34.91	29.50	46	-16.50	283	2.66
498.98	5.00	19.11	28.36	35.94	31.69	46	-14.31	87	2.55
515.52	5.10	18.68	28.38	35.44	30.84	46	-15.16	211	2.50
749.07	6.42	21.73	28.15	29.78	29.78	46	-16.22	116	1.78
798.39	6.68	21.90	27.98	28.85	29.46	46	-16.54	50	1.42

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
48.30	2.19	12.57	28.17	44.99	31.58	40	-8.42	224	1.13
69.22	2.27	6.90	28.10	54.06	35.13	40	-4.87	16	1.24
163.91	2.86	15.48	27.72	36.94	27.56	44	-15.94	78	1.41
242.57	3.37	12.10	27.38	46.95	35.03	46	-10.97	34	2.16
514.48	5.09	18.67	28.38	42.89	38.27	46	-7.73	151	2.50
748.02	6.42	21.75	28.15	33.79	33.81	46	-12.19	274	3.12

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 125 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH36 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
58.28	2.25	9.28	28.13	46.43	29.82	40	-10.18	352	3.68
173.47	2.90	16.02	27.68	36.11	27.35	44	-16.15	350	3.56
463.01	4.80	17.98	28.19	36.28	30.87	46	-15.13	284	2.66
499.56	5.00	19.21	28.37	36.78	32.63	46	-13.37	188	2.55
749.94	6.42	21.73	28.15	32.54	32.54	46	-13.46	354	1.86
798.24	6.68	21.90	27.98	28.96	29.57	46	-16.43	120	1.62

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
59.66	2.25	8.99	28.13	48.30	31.41	40	-8.59	315	1.09
68.75	2.27	7.10	28.10	54.21	35.48	40	-4.52	16	1.12
192.08	3.03	15.88	27.60	36.70	28.01	44	-15.49	29	1.50
469.39	4.83	18.07	28.22	35.23	29.91	46	-16.09	146	2.36
517.22	5.11	18.70	28.38	38.96	34.40	46	-11.60	151	2.51
748.93	6.42	21.75	28.15	32.31	32.33	46	-13.67	274	3.34

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 126 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH40 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.69	2.24	9.86	28.14	45.26	29.22	40	-10.78	351	3.68
70.35	2.27	6.70	28.10	48.85	29.72	40	-10.28	36	3.59
178.19	2.94	16.22	27.66	35.69	27.19	44	-16.31	349	3.28
499.20	5.00	19.21	28.37	36.32	32.17	46	-13.83	87	2.55
514.74	5.09	18.67	28.38	40.75	36.13	46	-9.87	193	2.50
749.85	6.42	21.73	28.15	34.02	34.02	46	-11.98	120	1.71

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
69.82	2.27	6.90	28.10	54.95	36.02	40	-3.98	216	1.14
88.04	2.36	7.48	28.04	51.66	33.47	44	-10.03	18	1.18
174.11	2.91	16.06	27.67	37.20	28.49	44	-15.01	27	1.45
408.63	4.54	16.82	27.92	37.79	31.23	46	-14.77	140	2.17
514.27	5.09	18.67	28.38	36.14	31.52	46	-14.48	151	2.44
749.91	6.42	21.73	28.15	33.40	33.40	46	-12.60	274	3.32

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 127 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH48 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.56	2.24	9.57	28.14	47.15	30.82	40	-9.18	353	3.62
68.80	2.27	7.10	28.10	47.02	28.29	40	-11.71	57	3.57
458.12	4.77	17.83	28.16	36.28	30.71	46	-15.29	283	2.68
498.68	5.00	19.11	28.36	35.66	31.41	46	-14.59	187	2.55
749.21	6.42	21.73	28.15	31.14	31.14	46	-14.86	117	1.66
926.37	7.50	24.06	27.44	28.02	32.13	46	-13.87	130	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
47.75	2.18	12.82	28.17	44.86	31.69	40	-8.31	14	1.08
68.98	2.27	7.10	28.10	54.21	35.48	40	-4.52	244	1.12
88.13	2.36	7.48	28.04	52.59	34.40	44	-9.10	18	1.18
164.04	2.86	15.54	27.72	37.20	27.88	44	-15.62	26	1.41
193.55	3.03	15.42	27.59	37.87	28.73	44	-14.77	29	1.89
749.08	6.42	21.73	28.15	32.30	32.30	46	-13.70	274	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 128 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH38 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.52	2.24	9.57	28.14	46.03	29.70	40	-10.30	352	3.67
95.01	2.40	9.10	28.02	43.48	26.96	44	-16.54	64	3.60
468.88	4.82	18.05	28.21	34.80	29.46	46	-16.54	283	2.64
499.92	5.00	19.21	28.37	35.34	31.19	46	-14.81	186	2.55
520.17	5.13	18.74	28.38	41.22	36.71	46	-9.29	195	2.48
749.54	6.42	21.73	28.15	31.48	31.48	46	-14.52	217	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
49.65	2.19	12.38	28.16	44.14	30.55	40	-9.45	314	1.06
69.80	2.27	6.90	28.10	54.65	35.72	40	-4.28	78	1.12
91.37	2.38	8.06	28.03	51.20	33.62	44	-9.88	59	1.19
173.05	2.90	16.02	27.68	36.64	27.88	44	-15.62	27	1.44
514.92	5.09	18.67	28.38	37.04	32.42	46	-13.58	151	2.50
749.58	6.42	21.73	28.15	32.85	32.85	46	-13.15	274	3.13

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 129 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH46 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.67	2.24	9.57	28.14	46.50	30.17	40	-9.83	334	3.64
320.12	3.90	15.44	27.29	39.77	31.83	46	-14.17	274	3.10
471.95	4.84	18.09	28.23	36.60	31.31	46	-14.69	286	2.63
491.03	4.96	18.45	28.33	36.38	31.47	46	-14.53	187	2.57
499.86	5.00	19.21	28.37	36.80	32.65	46	-13.35	188	2.55
749.42	6.42	21.73	28.15	31.32	31.32	46	-14.68	117	1.59

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
69.88	2.27	6.90	28.10	54.18	35.25	40	-4.75	216	1.12
90.35	2.38	7.80	28.03	51.33	33.48	44	-10.02	228	1.19
172.16	2.89	15.98	27.68	36.72	27.91	44	-15.59	327	1.44
398.78	4.48	16.19	27.87	36.95	29.76	46	-16.24	139	2.14
514.99	5.09	18.67	28.38	40.26	35.64	46	-10.36	151	2.50
749.25	6.42	21.73	28.15	32.30	32.30	46	-13.70	274	3.17

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 130 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH38 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
62.39	2.26	8.30	28.12	47.29	29.73	40	-10.27	354	3.66
94.01	2.40	8.84	28.02	44.09	27.31	44	-16.19	42	3.60
464.76	4.80	18.00	28.19	37.16	31.76	46	-14.24	285	2.66
499.28	5.00	19.21	28.37	35.14	30.99	46	-15.01	187	2.55
517.44	5.11	18.70	28.38	34.79	30.23	46	-15.77	187	1.97
749.07	6.42	21.73	28.15	32.85	32.85	46	-13.15	119	1.45

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
49.43	2.19	12.38	28.16	44.60	31.01	40	-8.99	317	1.06
67.66	2.27	7.30	28.11	53.77	35.23	40	-4.77	214	1.12
90.19	2.38	7.80	28.03	50.62	32.77	44	-10.73	199	1.19
499.20	5.00	19.21	28.37	35.94	31.79	46	-14.21	220	2.45
517.56	5.11	18.70	28.38	37.23	32.67	46	-13.33	151	2.51
749.59	6.42	21.73	28.15	34.07	34.07	46	-11.93	274	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 131 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH46 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
61.06	2.26	8.50	28.12	47.36	30.00	40	-10.00	354	3.60
499.83	5.00	19.21	28.37	37.02	32.87	46	-13.13	188	2.55
515.18	5.10	18.68	28.38	36.64	32.04	46	-13.96	189	2.50
749.25	6.42	21.73	28.15	31.87	31.87	46	-14.13	271	1.78
797.42	6.67	21.96	27.98	28.99	29.64	46	-16.36	120	1.63
921.60	7.46	24.01	27.47	27.87	31.88	46	-14.12	130	1.24

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
48.17	2.19	12.57	28.17	44.46	31.05	40	-8.95	14	1.06
68.48	2.27	7.10	28.10	53.52	34.79	40	-5.21	96	1.12
88.69	2.36	7.48	28.04	51.13	32.94	44	-10.56	18	1.18
492.03	4.96	18.55	28.33	36.91	32.09	46	-13.91	149	2.43
515.15	5.10	18.68	28.38	36.16	31.56	46	-14.44	151	2.50
747.97	6.41	21.78	28.16	34.72	34.75	46	-11.25	274	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 132 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH36 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
58.50	2.25	9.28	28.13	46.99	30.38	40	-9.62	305	3.64
173.84	2.90	16.02	27.68	36.10	27.34	44	-16.16	137	3.56
465.91	4.81	18.01	28.20	35.07	29.69	46	-16.31	133	2.65
499.03	5.00	19.21	28.37	38.28	34.13	46	-11.87	115	2.55
517.67	5.11	18.70	28.38	36.60	32.04	46	-13.96	217	2.49
749.93	6.42	21.73	28.15	33.54	33.54	46	-12.46	241	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
68.49	2.27	7.10	28.10	54.48	35.75	40	-4.25	195	1.12
87.17	2.36	7.32	28.04	48.49	30.12	40	-9.88	126	1.18
412.02	4.55	17.04	27.94	41.56	35.21	46	-10.79	340	2.18
488.81	4.94	18.33	28.31	36.68	31.64	46	-14.36	196	2.42
516.95	5.11	18.69	28.38	39.39	34.81	46	-11.19	111	2.51
749.58	6.42	21.73	28.15	32.26	32.26	46	-13.74	245	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 133 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH40 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.67	2.24	9.86	28.14	45.94	29.90	40	-10.10	277	3.62
325.14	3.94	15.45	27.33	37.37	29.43	46	-16.57	12	3.09
469.97	4.83	18.07	28.22	35.07	29.75	46	-16.25	247	2.64
485.35	4.92	18.29	28.30	35.05	29.97	46	-16.03	164	2.59
499.02	5.00	19.21	28.37	35.56	31.41	46	-14.59	287	2.55
748.74	6.42	21.75	28.15	31.83	31.85	46	-14.15	98	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
50.39	2.20	11.60	28.16	44.53	30.17	40	-9.83	258	1.06
67.14	2.27	7.30	28.11	48.70	30.16	40	-9.84	193	1.11
91.05	2.38	8.06	28.03	50.02	32.44	44	-11.06	89	1.19
175.83	2.92	16.10	27.67	37.75	29.09	44	-14.41	280	1.45
514.73	5.09	18.67	28.38	39.47	34.85	46	-11.15	316	2.50
749.94	6.42	21.73	28.15	32.12	32.12	46	-13.88	38	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 134 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH48 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.16	2.24	9.57	28.14	46.87	30.54	40	-9.46	325	3.52
334.97	4.00	15.47	27.39	45.65	37.73	46	-8.27	326	3.06
493.24	4.97	18.64	28.34	38.20	33.48	46	-12.52	13	2.57
499.03	5.00	19.21	28.37	36.61	32.46	46	-13.54	321	2.55
513.82	5.09	18.66	28.38	39.46	34.83	46	-11.17	163	2.50
749.65	6.42	21.73	28.15	31.49	31.49	46	-14.51	255	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.35	2.24	9.57	28.14	48.86	32.53	40	-7.47	314	1.08
67.91	2.27	7.30	28.11	48.72	30.18	40	-9.82	43	1.12
88.03	2.36	7.48	28.04	50.63	32.44	44	-11.06	209	1.18
167.07	2.87	15.72	27.71	38.26	29.15	44	-14.35	355	1.42
198.60	3.07	13.12	27.57	43.87	32.50	44	-11.00	278	1.52
748.83	6.42	21.75	28.15	32.06	32.08	46	-13.92	235	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 135 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH36 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
58.34	2.25	9.28	28.13	47.18	30.57	40	-9.43	161	3.61
94.09	2.40	8.84	28.02	43.88	27.10	44	-16.40	204	3.55
176.17	2.92	16.14	27.67	35.74	27.14	44	-16.36	272	3.32
499.85	5.00	19.21	28.37	37.17	33.02	46	-12.98	52	2.55
749.61	6.42	21.73	28.15	32.29	32.29	46	-13.71	288	1.77
917.87	7.44	23.97	27.48	28.33	32.26	46	-13.74	236	1.25

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
69.26	2.27	6.90	28.10	54.91	35.98	40	-4.02	115	1.12
88.90	2.36	7.48	28.04	52.12	33.93	44	-9.57	324	1.18
174.33	2.91	16.06	27.67	35.65	26.94	44	-16.56	167	1.45
499.57	5.00	19.21	28.37	34.22	30.07	46	-15.93	301	2.45
514.41	5.09	18.67	28.38	35.33	30.71	46	-15.29	72	2.50
749.08	6.42	21.73	28.15	32.15	32.15	46	-13.85	91	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 136 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH40 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
60.36	2.26	8.70	28.13	46.82	29.65	40	-10.35	214	3.58
69.92	2.27	6.90	28.10	48.61	29.68	40	-10.32	156	3.42
190.57	3.01	16.80	27.60	35.07	27.28	44	-16.22	179	3.35
499.01	5.00	19.21	28.37	36.10	31.95	46	-14.05	18	2.55
515.84	5.10	18.68	28.38	39.39	34.79	46	-11.21	345	2.50
749.41	6.42	21.73	28.15	30.73	30.73	46	-15.27	345	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
48.58	2.19	12.57	28.17	43.43	30.02	40	-9.98	42	1.06
67.15	2.27	7.30	28.11	52.91	34.37	40	-5.63	246	1.11
91.02	2.38	8.06	28.03	50.85	33.27	44	-10.23	52	1.19
513.68	5.09	18.66	28.38	41.66	37.03	46	-8.97	347	2.50
520.99	5.13	18.74	28.38	36.92	32.41	46	-13.59	291	2.52
749.43	6.42	21.73	28.15	33.47	33.47	46	-12.53	140	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 137 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH48 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.43	2.24	9.57	28.14	46.29	29.96	40	-10.04	348	3.63
300.09	3.76	15.00	27.14	38.68	30.30	46	-15.70	259	3.16
499.18	5.00	19.21	28.37	34.79	30.64	46	-15.36	330	2.55
514.22	5.09	18.67	28.38	39.37	34.75	46	-11.25	306	2.50
749.97	6.42	21.73	28.15	31.92	31.92	46	-14.08	68	1.77
921.65	7.46	24.01	27.47	28.54	32.55	46	-13.45	352	1.24

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
47.88	2.18	12.82	28.17	44.41	31.24	40	-8.76	200	1.06
69.37	2.27	6.90	28.10	54.40	35.47	40	-4.53	32	1.12
88.02	2.36	7.48	28.04	52.40	34.21	44	-9.29	295	1.18
164.46	2.86	15.54	27.72	36.63	27.31	44	-16.19	222	1.42
212.17	3.16	11.78	27.51	49.94	37.37	44	-6.13	104	1.56
749.66	6.42	21.73	28.15	33.24	33.24	46	-12.76	69	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 138 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH38 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
61.31	2.26	8.50	28.12	47.41	30.05	40	-9.95	335	3.60
186.24	2.99	16.60	27.62	36.36	28.32	44	-15.18	147	3.52
462.07	4.79	17.97	28.18	37.79	32.36	46	-13.64	320	2.66
499.51	5.00	19.21	28.37	36.32	32.17	46	-13.83	29	2.55
517.08	5.11	18.70	28.38	38.35	33.79	46	-12.21	320	2.49
748.71	6.42	21.75	28.15	30.96	30.98	46	-15.02	264	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.54	2.24	9.57	28.14	47.66	31.33	40	-8.67	300	1.09
67.32	2.27	7.30	28.11	54.01	35.47	40	-4.53	275	1.12
88.98	2.36	7.48	28.04	52.63	34.44	44	-9.06	112	1.18
190.60	3.01	16.80	27.60	35.52	27.73	44	-15.77	157	1.50
499.14	5.00	19.21	28.37	33.89	29.74	46	-16.26	98	2.45
747.98	6.41	21.78	28.16	32.56	32.59	46	-13.41	49	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 139 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH46 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
62.47	2.26	8.30	28.12	47.95	30.39	40	-9.61	158	3.60
172.13	2.89	15.98	27.68	35.99	27.18	44	-16.32	301	3.56
472.84	4.85	18.11	28.23	34.56	29.28	46	-16.72	173	2.63
499.99	5.00	19.21	28.37	36.45	32.30	46	-13.70	209	2.55
748.50	6.42	21.75	28.15	30.73	30.75	46	-15.25	103	1.78
919.34	7.45	23.99	27.47	25.50	29.47	46	-16.53	191	1.25

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
47.70	2.18	12.82	28.17	43.74	30.57	40	-9.43	64	1.05
66.31	2.27	7.50	28.11	54.24	35.90	40	-4.10	40	1.11
88.08	2.36	7.48	28.04	52.26	34.07	44	-9.43	310	1.18
176.49	2.92	16.14	27.67	35.98	27.38	44	-16.12	166	1.45
517.25	5.11	18.70	28.38	44.31	39.75	46	-6.25	180	2.51
749.23	6.42	21.73	28.15	34.00	34.00	46	-12.00	208	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 140 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH38 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.19	2.24	9.57	28.14	46.53	30.20	40	-9.80	244	3.66
181.24	2.96	16.35	27.64	35.15	26.81	44	-16.69	123	3.53
471.94	4.84	18.09	28.23	35.53	30.24	46	-15.76	167	2.63
499.35	5.00	19.21	28.37	36.01	31.86	46	-14.14	270	2.55
668.78	5.95	21.22	28.36	33.23	32.05	46	-13.95	18	2.02
748.42	6.42	21.75	28.15	31.92	31.94	46	-14.06	189	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
49.61	2.19	12.38	28.16	42.64	29.05	40	-10.95	79	1.06
68.72	2.27	7.10	28.10	55.54	36.81	40	-3.19	51	1.12
89.38	2.37	7.64	28.04	50.74	32.72	44	-10.78	301	1.18
499.05	5.00	19.21	28.37	33.64	29.49	46	-16.51	351	2.45
513.11	5.09	18.66	28.38	39.73	35.10	46	-10.90	346	2.49
748.46	6.42	21.75	28.15	30.52	30.54	46	-15.46	128	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 141 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH46 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
58.60	2.25	9.28	28.13	46.18	29.57	40	-10.43	138	3.61
350.83	4.12	15.20	27.51	46.12	37.93	46	-8.07	210	3.01
499.26	5.00	19.21	28.37	37.54	33.39	46	-12.61	355	2.55
519.94	5.12	18.73	28.38	40.16	35.63	46	-10.37	286	2.48
748.77	6.42	21.75	28.15	31.80	31.82	46	-14.18	277	1.78
922.16	7.47	24.02	27.46	28.33	32.36	46	-13.64	172	1.24

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
59.73	2.25	8.99	28.13	49.22	32.33	40	-7.67	27	1.09
67.81	2.27	7.30	28.11	54.48	35.94	40	-4.06	190	1.12
89.23	2.37	7.64	28.04	51.62	33.60	44	-9.90	223	1.18
191.39	3.02	16.34	27.60	36.35	28.11	44	-15.39	224	1.50
513.08	5.09	18.66	28.38	42.53	37.90	46	-8.10	240	2.49
749.42	6.42	21.73	28.15	33.22	33.22	46	-12.78	82	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 142 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT80_CH42 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.19	2.24	9.57	28.14	46.66	30.33	40	-9.67	213	3.62
174.43	2.91	16.06	27.67	35.90	27.19	44	-16.31	326	3.55
335.32	4.01	15.47	27.40	39.47	31.55	46	-14.45	28	3.06
464.55	4.80	18.00	28.19	35.37	29.97	46	-16.03	8	2.66
499.06	5.00	19.21	28.37	37.60	33.45	46	-12.55	42	2.55
748.81	6.42	21.75	28.15	30.94	30.96	46	-15.04	110	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
70.90	2.27	6.70	28.10	54.80	35.67	40	-4.33	16	1.13
88.08	2.36	7.48	28.04	51.65	33.46	44	-10.04	267	1.18
173.35	2.90	16.02	27.68	35.41	26.65	44	-16.85	89	1.44
398.51	4.48	16.19	27.87	36.30	29.11	46	-16.89	245	2.14
517.77	5.11	18.70	28.38	42.25	37.69	46	-8.31	64	2.51
749.84	6.42	21.73	28.15	33.20	33.20	46	-12.80	117	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 143 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.1G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT80_CH42 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
56.46	2.24	9.86	28.14	46.79	30.75	40	-9.25	65	3.62
62.12	2.26	8.30	28.12	47.24	29.68	40	-10.32	150	3.58
178.07	2.94	16.22	27.66	35.79	27.29	44	-16.21	37	3.54
499.85	5.00	19.21	28.37	36.03	31.88	46	-14.12	112	2.55
516.96	5.11	18.69	28.38	39.39	34.81	46	-11.19	357	2.49
749.27	6.42	21.73	28.15	32.00	32.00	46	-14.00	35	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
49.62	2.19	12.38	28.16	43.97	30.38	40	-9.62	221	1.06
67.01	2.27	7.30	28.11	54.15	35.61	40	-4.39	262	1.11
89.34	2.37	7.64	28.04	50.83	32.81	44	-10.69	69	1.18
166.87	2.87	15.66	27.71	36.85	27.67	44	-15.83	51	1.42
499.54	5.00	19.21	28.37	38.54	34.39	46	-11.61	349	2.45
749.18	6.42	21.73	28.15	32.78	32.78	46	-13.22	160	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 144 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.8G 802.11a_CH149
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
208.18	3.14	11.88	27.53	42.28	29.77	44	-13.73	36	3.68
275.46	3.58	13.50	27.25	39.18	29.01	46	-16.99	268	3.24
312.93	3.85	15.42	27.23	42.93	34.97	46	-11.03	76	3.12
514.07	5.09	18.67	28.38	42.75	38.13	46	-7.87	195	2.50
748.84	6.42	21.75	28.15	33.36	33.38	46	-12.62	119	1.78
823.22	6.83	22.91	27.88	28.20	30.06	46	-15.94	123	1.47

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
72.63	2.28	6.60	28.09	49.56	30.35	40	-9.65	317	1.11
86.29	2.35	7.16	28.04	47.79	29.25	40	-10.75	18	1.17
207.05	3.13	11.92	27.53	40.05	27.57	44	-15.93	230	1.55
313.33	3.85	15.43	27.24	39.59	31.63	46	-14.37	131	1.88
514.85	5.09	18.67	28.38	37.74	33.12	46	-12.88	151	2.50
719.01	6.24	21.88	28.25	29.59	29.45	46	-16.55	271	3.13

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 145 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.8G 802.11a_CH157
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
207.54	3.13	11.92	27.53	46.08	33.60	44	-9.90	36	3.45
314.81	3.86	15.43	27.24	40.43	32.48	46	-13.52	274	3.12
499.04	5.00	19.21	28.37	34.23	30.08	46	-15.92	185	2.55
661.98	5.91	21.10	28.36	43.13	41.77	46	-4.23	212	2.05
749.35	6.42	21.73	28.15	31.28	31.28	46	-14.72	117	1.78
796.08	6.67	22.01	27.98	28.84	29.53	46	-16.47	120	1.63

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
74.69	2.28	6.50	28.08	48.33	29.03	40	-10.97	17	1.14
84.15	2.33	6.84	28.05	48.84	29.96	40	-10.04	18	1.17
205.28	3.12	12.00	27.54	40.67	28.25	44	-15.25	30	1.54
314.40	3.86	15.43	27.24	39.85	31.90	46	-14.10	131	1.88
492.72	4.96	18.55	28.33	35.02	30.20	46	-15.80	149	2.43
514.63	5.09	18.67	28.38	43.55	38.93	46	-7.07	151	2.50

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 146 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	5.8G 802.11a_CH165
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
64.77	2.26	7.90	28.12	39.53	21.58	40	-18.42	346	3.63
202.25	3.10	12.12	27.55	40.98	28.65	44	-14.85	119	3.47
273.09	3.57	13.42	27.25	38.49	28.22	46	-17.78	268	3.25
310.14	3.83	15.42	27.21	42.39	34.43	46	-11.57	76	3.13
515.81	5.10	18.68	28.38	39.45	34.85	46	-11.15	192	2.54
749.98	6.42	21.73	28.15	35.41	35.41	46	-10.59	121	1.66

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
73.96	2.28	6.55	28.09	48.50	29.24	40	-10.76	217	1.07
87.31	2.36	7.32	28.04	44.81	26.44	40	-13.56	18	1.18
315.04	3.87	15.43	27.25	40.09	32.14	46	-13.86	131	1.88
457.83	4.76	17.78	28.16	42.38	36.76	46	-9.24	45	2.32
517.19	5.11	18.70	28.38	40.14	35.58	46	-10.42	151	2.51
718.22	6.23	21.87	28.26	30.32	30.17	46	-15.83	271	3.24

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 147 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH149 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
210.11	3.15	11.80	27.52	44.28	31.71	44	-11.79	36	3.51
312.92	3.85	15.42	27.23	43.00	35.04	46	-10.96	276	3.12
498.87	5.00	19.11	28.36	32.31	28.06	46	-17.94	184	2.55
513.33	5.09	18.66	28.38	38.92	34.29	46	-11.71	292	2.51
749.04	6.42	21.73	28.15	33.12	33.12	46	-12.88	19	1.78
798.21	6.68	21.90	27.98	29.39	30.00	46	-16.00	120	1.24

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
74.63	2.28	6.50	28.08	48.66	29.36	40	-10.64	17	1.08
87.07	2.36	7.32	28.04	44.68	26.31	40	-13.69	318	1.18
207.25	3.13	11.92	27.53	40.02	27.54	44	-15.96	30	1.55
309.18	3.82	15.38	27.21	41.03	33.03	46	-12.97	130	1.86
353.73	4.14	15.37	27.53	39.34	31.32	46	-14.68	135	2.00
514.96	5.09	18.67	28.38	38.59	33.97	46	-12.03	151	2.44

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 148 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH157 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
208.52	3.14	11.88	27.53	41.65	29.14	44	-14.36	123	3.29
315.05	3.87	15.43	27.25	43.39	35.44	46	-10.56	95	3.12
497.34	4.99	19.02	28.36	36.25	31.91	46	-14.09	313	2.55
512.78	5.08	18.64	28.38	32.18	27.53	46	-18.47	202	2.51
719.99	6.24	21.88	28.25	28.82	28.68	46	-17.32	19	1.87
749.45	6.42	21.73	28.15	33.36	33.36	46	-12.64	155	1.66

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
72.24	2.28	6.60	28.09	47.53	28.32	40	-11.68	321	1.13
86.97	2.35	7.16	28.04	49.17	30.63	40	-9.37	47	1.18
315.03	3.87	15.43	27.25	39.50	31.55	46	-14.45	34	1.88
514.88	5.09	18.67	28.38	40.67	36.05	46	-9.95	229	2.50
719.16	6.24	21.88	28.25	30.20	30.06	46	-15.94	70	3.13
748.73	6.42	21.75	28.15	29.47	29.49	46	-16.51	82	3.24

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 149 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH165 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
67.48	2.27	7.30	28.11	39.55	21.01	40	-18.99	223	3.74
208.31	3.14	11.88	27.53	41.75	29.24	44	-14.26	85	3.45
314.02	3.86	15.43	27.24	42.68	34.73	46	-11.27	53	3.12
517.78	5.11	18.70	28.38	39.11	34.55	46	-11.45	307	2.49
720.40	6.24	21.88	28.25	41.29	41.16	46	-4.84	166	1.86
749.97	6.42	21.73	28.15	32.47	32.47	46	-13.53	105	1.53

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
74.60	2.28	6.50	28.08	48.04	28.74	40	-11.26	26	1.14
88.98	2.36	7.48	28.04	48.43	30.24	44	-13.26	221	1.18
314.13	3.86	15.43	27.24	40.40	32.45	46	-13.55	133	1.88
393.07	4.45	16.41	27.83	39.31	32.34	46	-13.66	318	2.12
498.26	5.00	19.11	28.36	35.04	30.79	46	-15.21	50	2.45
517.85	5.11	18.70	28.38	34.66	30.10	46	-15.90	78	2.69

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 150 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH149 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
212.27	3.16	11.78	27.51	45.45	32.88	44	-10.62	36	3.21
309.13	3.82	15.38	27.21	41.97	33.97	46	-12.03	275	3.14
514.46	5.09	18.67	28.38	41.38	36.76	46	-9.24	195	2.50
720.96	6.24	21.88	28.25	37.43	37.30	46	-8.70	211	1.86
749.20	6.42	21.73	28.15	33.37	33.37	46	-12.63	119	1.78
799.93	6.68	21.85	27.97	28.35	28.91	46	-17.09	135	1.44

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
73.56	2.28	6.55	28.09	46.56	27.30	40	-12.70	317	1.13
83.12	2.32	6.68	28.05	49.52	30.47	40	-9.53	18	1.16
314.86	3.86	15.43	27.24	41.10	33.15	46	-12.85	131	1.88
490.98	4.95	18.36	28.32	40.19	35.18	46	-10.82	256	2.43
513.34	5.09	18.66	28.38	39.15	34.52	46	-11.48	151	2.49
719.17	6.24	21.88	28.25	29.66	29.52	46	-16.48	271	3.13

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 151 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH157 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
208.18	3.14	11.88	27.53	43.70	31.19	44	-12.31	36	3.45
315.34	3.87	15.43	27.25	43.23	35.28	46	-10.72	277	3.12
491.05	4.96	18.45	28.33	33.78	28.87	46	-17.13	184	2.57
514.97	5.09	18.67	28.38	37.23	32.61	46	-13.39	90	2.50
749.63	6.42	21.73	28.15	32.30	32.30	46	-13.70	118	1.77
799.12	6.68	21.85	27.97	29.08	29.64	46	-16.36	120	1.62

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
73.70	2.28	6.55	28.09	47.81	28.55	40	-11.45	217	1.14
84.26	2.33	6.84	28.05	49.40	30.52	40	-9.48	181	1.17
315.88	3.87	15.43	27.25	40.49	32.54	46	-13.46	131	1.87
490.15	4.95	18.36	28.32	37.51	32.50	46	-13.50	149	2.42
719.06	6.24	21.88	28.25	30.24	30.10	46	-15.90	271	3.13
748.49	6.42	21.75	28.15	29.87	29.89	46	-16.11	274	3.33

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 152 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT20_CH165 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
210.71	3.15	11.80	27.52	44.67	32.10	44	-11.40	36	3.33
309.14	3.82	15.38	27.21	43.09	35.09	46	-10.91	275	3.14
514.08	5.09	18.67	28.38	40.91	36.29	46	-9.71	193	2.50
678.63	6.00	21.40	28.34	29.44	28.50	46	-17.50	197	1.99
719.22	6.24	21.88	28.25	28.95	28.81	46	-17.19	200	1.87
748.95	6.42	21.75	28.15	32.75	32.77	46	-13.23	118	1.62

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
79.38	2.30	6.25	28.07	54.98	35.46	40	-4.54	17	1.15
311.92	3.84	15.42	27.22	40.22	32.26	46	-13.74	131	1.87
398.10	4.48	16.19	27.87	36.13	28.94	46	-17.06	189	2.14
514.45	5.09	18.67	28.38	36.21	31.59	46	-14.41	151	2.50
720.27	6.24	21.88	28.25	38.41	38.28	46	-7.72	272	3.13
749.88	6.42	21.73	28.15	36.85	36.85	46	-9.15	274	3.25

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 153 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH151 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
312.13	3.85	15.42	27.23	41.84	33.88	46	-12.12	251	3.13
462.85	4.79	17.97	28.18	41.01	35.58	46	-10.42	322	2.66
514.02	5.09	18.67	28.38	33.12	28.50	46	-17.50	251	2.50
624.93	5.70	20.48	28.40	35.08	32.86	46	-13.14	214	2.16
749.29	6.42	21.73	28.15	32.24	32.24	46	-13.76	264	1.78
794.46	6.66	22.11	27.99	28.96	29.74	46	-16.26	318	1.64

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
80.69	2.30	6.20	28.06	47.94	28.38	40	-11.62	312	1.16
287.13	3.67	13.91	27.19	46.01	36.39	46	-9.61	316	1.80
312.02	3.85	15.42	27.23	40.57	32.61	46	-13.39	107	1.87
516.75	5.11	18.69	28.38	37.07	32.49	46	-13.51	349	2.51
719.43	6.24	21.88	28.25	30.27	30.13	46	-15.87	56	3.13
749.81	6.42	21.73	28.15	29.95	29.95	46	-16.05	269	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 154 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH159 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
314.84	3.86	15.43	27.24	41.83	33.88	46	-12.12	281	3.12
459.01	4.77	17.89	28.17	41.09	35.58	46	-10.42	287	2.67
490.95	4.95	18.36	28.32	33.51	28.50	46	-17.50	124	2.57
514.33	5.09	18.67	28.38	37.48	32.86	46	-13.14	134	2.50
624.29	5.70	20.48	28.40	34.46	32.24	46	-13.76	34	2.16
749.78	6.42	21.73	28.15	29.74	29.74	46	-16.26	80	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.62	2.29	6.30	28.07	47.86	28.38	40	-11.62	293	1.15
313.70	3.85	15.43	27.24	44.35	36.39	46	-9.61	163	1.88
395.35	4.46	16.32	27.84	39.67	32.61	46	-13.39	83	2.13
490.86	4.95	18.36	28.32	37.50	32.49	46	-13.51	43	2.43
514.17	5.09	18.67	28.38	34.75	30.13	46	-15.87	221	2.50
749.92	6.42	21.73	28.15	29.95	29.95	46	-16.05	49	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 155 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH151 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
222.75	3.22	11.72	27.47	46.40	33.88	46	-12.12	145	3.40
314.89	3.86	15.43	27.24	43.53	35.58	46	-10.42	358	3.12
418.10	4.58	17.16	27.97	34.73	28.50	46	-17.50	51	2.80
624.37	5.70	20.48	28.40	35.08	32.86	46	-13.14	98	2.16
719.62	6.24	21.88	28.25	32.38	32.24	46	-13.76	284	1.87
749.05	6.42	21.73	28.15	29.74	29.74	46	-16.26	351	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.60	2.29	6.30	28.07	47.86	28.38	40	-11.62	294	1.15
313.31	3.85	15.43	27.24	44.35	36.39	46	-9.61	46	1.88
323.94	3.93	15.45	27.31	40.55	32.61	46	-13.39	293	1.91
398.55	4.48	16.19	27.87	39.68	32.49	46	-13.51	230	2.14
719.07	6.24	21.88	28.25	30.27	30.13	46	-15.87	186	3.13
749.84	6.42	21.73	28.15	29.95	29.95	46	-16.05	123	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 156 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11n - HT40_CH159 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
70.52	2.27	6.70	28.10	47.01	27.88	40	-12.12	38	3.87
216.08	3.19	11.74	27.49	48.15	35.58	46	-10.42	93	3.42
462.33	4.79	17.97	28.18	33.93	28.50	46	-17.50	163	2.66
488.96	4.94	18.33	28.31	37.90	32.86	46	-13.14	32	2.58
624.14	5.70	20.48	28.40	34.46	32.24	46	-13.76	102	2.16
749.73	6.42	21.73	28.15	29.74	29.74	46	-16.26	179	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
79.61	2.30	6.25	28.07	47.90	28.38	40	-11.62	250	1.15
312.25	3.85	15.42	27.23	44.35	36.39	46	-9.61	136	1.87
398.43	4.48	16.19	27.87	39.80	32.61	46	-13.39	29	2.14
516.17	5.11	18.69	28.38	37.07	32.49	46	-13.51	304	2.50
719.94	6.24	21.88	28.25	30.27	30.13	46	-15.87	266	3.13
749.65	6.42	21.73	28.15	29.95	29.95	46	-16.05	26	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 157 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH149 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
314.31	3.86	15.43	27.24	40.97	33.02	46	-12.98	167	3.12
489.55	4.95	18.35	28.32	34.18	29.16	46	-16.84	285	2.58
624.73	5.70	20.48	28.40	32.34	30.12	46	-15.88	236	2.16
719.18	6.24	21.88	28.25	27.33	27.19	46	-18.81	267	1.87
749.94	6.42	21.73	28.15	36.95	36.95	46	-9.05	203	1.77
924.20	7.48	24.04	27.45	29.31	33.38	46	-12.62	11	1.23

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.42	2.29	6.30	28.07	52.80	33.32	40	-6.68	164	1.15
311.66	3.84	15.42	27.22	38.78	30.82	46	-15.18	53	1.87
398.91	4.48	16.19	27.87	36.40	29.21	46	-16.79	323	2.14
489.03	4.95	18.35	28.32	38.13	33.11	46	-12.89	112	2.42
719.85	6.24	21.88	28.25	30.22	30.08	46	-15.92	119	3.13
749.14	6.42	21.73	28.15	36.31	36.31	46	-9.69	248	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 158 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH157 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
222.50	3.22	11.72	27.47	37.69	25.17	46	-20.83	352	3.40
313.07	3.85	15.43	27.24	40.78	32.82	46	-13.18	301	3.12
327.34	3.95	15.45	27.34	35.02	27.09	46	-18.91	289	3.08
624.18	5.70	20.48	28.40	32.78	30.56	46	-15.44	87	2.16
719.21	6.24	21.88	28.25	28.56	28.42	46	-17.58	41	1.87
749.95	6.42	21.73	28.15	35.47	35.47	46	-10.53	80	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.04	2.29	6.30	28.07	53.78	34.30	40	-5.70	279	1.15
312.32	3.85	15.42	27.23	39.83	31.87	46	-14.13	90	1.87
398.46	4.48	16.19	27.87	36.51	29.32	46	-16.68	265	2.14
490.29	4.95	18.36	28.32	35.90	30.89	46	-15.11	291	2.42
719.00	6.24	21.88	28.25	29.25	29.11	46	-16.89	65	3.13
749.81	6.42	21.73	28.15	35.35	35.35	46	-10.65	245	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 159 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH165 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
70.46	2.27	6.70	28.10	39.61	20.48	40	-19.52	182	3.87
315.91	3.87	15.43	27.25	40.48	32.53	46	-13.47	95	3.12
513.22	5.09	18.66	28.38	37.71	33.08	46	-12.92	289	2.51
624.83	5.70	20.48	28.40	33.18	30.96	46	-15.04	181	2.16
719.67	6.24	21.88	28.25	28.88	28.74	46	-17.26	30	1.87
749.95	6.42	21.73	28.15	37.29	37.29	46	-8.71	298	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
77.27	2.29	6.35	28.07	52.47	33.04	40	-6.96	269	1.15
313.13	3.85	15.43	27.24	40.65	32.69	46	-13.31	98	1.88
398.65	4.48	16.19	27.87	36.17	28.98	46	-17.02	184	2.14
499.94	5.00	19.21	28.37	45.34	41.19	46	-4.81	285	2.45
719.88	6.24	21.88	28.25	28.84	28.70	46	-17.30	272	3.13
749.45	6.42	21.73	28.15	35.83	35.83	46	-10.17	17	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 160 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH149 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
222.53	3.22	11.72	27.47	38.26	25.74	46	-20.26	175	3.40
310.18	3.83	15.42	27.21	41.66	33.70	46	-12.30	281	3.13
490.26	4.95	18.36	28.32	35.15	30.14	46	-15.86	42	2.58
514.98	5.09	18.67	28.38	32.03	27.41	46	-18.59	175	2.50
624.47	5.70	20.48	28.40	31.98	29.76	46	-16.24	169	2.16
749.33	6.42	21.73	28.15	35.31	35.31	46	-10.69	13	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
77.21	2.29	6.35	28.07	51.52	32.09	40	-7.91	105	1.15
314.04	3.86	15.43	27.24	40.27	32.32	46	-13.68	301	1.88
398.94	4.48	16.19	27.87	36.37	29.18	46	-16.82	131	2.14
514.55	5.09	18.67	28.38	40.05	35.43	46	-10.57	356	2.50
719.28	6.24	21.88	28.25	28.48	28.34	46	-17.66	294	3.13
748.63	6.42	21.75	28.15	35.37	35.39	46	-10.61	274	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 161 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH157 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
222.92	3.22	11.72	27.47	38.16	25.64	46	-20.36	344	3.40
313.08	3.85	15.43	27.24	40.34	32.38	46	-13.62	52	3.12
457.35	4.76	17.78	28.16	31.19	25.57	46	-20.43	226	2.68
513.02	5.09	18.66	28.38	37.23	32.60	46	-13.40	262	2.51
624.76	5.70	20.48	28.40	30.85	28.63	46	-17.37	128	2.16
749.43	6.42	21.73	28.15	35.41	35.41	46	-10.59	110	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
77.68	2.29	6.35	28.07	52.82	33.39	40	-6.61	221	1.15
313.42	3.85	15.43	27.24	39.59	31.63	46	-14.37	279	1.88
398.50	4.48	16.19	27.87	36.07	28.88	46	-17.12	34	2.14
516.17	5.11	18.69	28.38	40.23	35.65	46	-10.35	246	2.50
719.38	6.24	21.88	28.25	28.08	27.94	46	-18.06	186	3.13
747.96	6.41	21.78	28.16	36.10	36.13	46	-9.87	162	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 162 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT20_CH165 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
312.75	3.85	15.42	27.23	40.40	32.44	46	-13.56	45	3.13
434.40	4.65	17.48	28.05	31.70	25.78	46	-20.22	149	2.75
514.17	5.09	18.67	28.38	36.30	31.68	46	-14.32	335	2.50
624.94	5.70	20.48	28.40	30.89	28.67	46	-17.33	61	2.16
719.28	6.24	21.88	28.25	28.95	28.81	46	-17.19	102	1.87
748.66	6.42	21.75	28.15	35.49	35.51	46	-10.49	262	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
74.64	2.28	6.50	28.08	52.27	32.97	40	-7.03	21	1.14
310.70	3.83	15.42	27.21	39.68	31.72	46	-14.28	212	1.87
398.91	4.48	16.19	27.87	35.46	28.27	46	-17.73	131	2.14
515.25	5.10	18.68	28.38	32.75	28.15	46	-17.85	150	2.50
725.37	6.28	21.90	28.23	32.33	32.27	46	-13.73	42	3.15
749.81	6.42	21.73	28.15	36.74	36.74	46	-9.26	333	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 163 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH151 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
71.31	2.27	6.65	28.09	39.00	19.83	40	-20.17	207	3.87
222.01	3.22	11.72	27.47	38.52	26.00	46	-20.00	183	3.41
311.94	3.84	15.42	27.22	40.59	32.63	46	-13.37	271	3.13
517.62	5.11	18.70	28.38	35.02	30.46	46	-15.54	306	2.49
624.75	5.70	20.48	28.40	32.90	30.68	46	-15.32	193	2.16
749.28	6.42	21.73	28.15	36.12	36.12	46	-9.88	117	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.21	2.29	6.30	28.07	52.07	32.59	40	-7.41	200	1.15
313.72	3.85	15.43	27.24	39.68	31.72	46	-14.28	157	1.88
320.65	3.90	15.44	27.29	39.43	31.49	46	-14.51	235	1.90
398.33	4.48	16.19	27.87	36.52	29.33	46	-16.67	79	2.14
517.40	5.11	18.70	28.38	35.77	31.21	46	-14.79	95	2.51
749.90	6.42	21.73	28.15	34.94	34.94	46	-11.06	18	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 164 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH159 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
207.36	3.13	11.92	27.53	35.49	23.01	44	-20.49	69	3.45
298.19	3.75	14.80	27.15	36.61	28.01	46	-17.99	46	3.17
314.43	3.86	15.43	27.24	40.82	32.87	46	-13.13	158	3.12
624.80	5.70	20.48	28.40	31.00	28.78	46	-17.22	334	2.16
678.51	6.00	21.40	28.34	28.99	28.05	46	-17.95	259	1.99
749.77	6.42	21.73	28.15	35.97	35.97	46	-10.03	164	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
73.45	2.28	6.55	28.09	50.92	31.66	40	-8.34	49	1.13
314.23	3.86	15.43	27.24	40.22	32.27	46	-13.73	353	1.88
398.96	4.48	16.19	27.87	34.69	27.50	46	-18.50	70	2.14
516.01	5.11	18.69	28.38	34.23	29.65	46	-16.35	242	2.50
719.88	6.24	21.88	28.25	28.74	28.60	46	-17.40	258	3.13
749.34	6.42	21.73	28.15	36.32	36.32	46	-9.68	32	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 165 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH151 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
134.81	2.73	14.06	27.85	39.89	28.83	44	-14.67	80	3.68
311.27	3.84	15.42	27.22	40.70	32.74	46	-13.26	190	3.13
514.84	5.09	18.67	28.38	38.64	34.02	46	-11.98	145	2.50
624.33	5.70	20.48	28.40	33.37	31.15	46	-14.85	337	2.16
719.01	6.24	21.88	28.25	28.91	28.77	46	-17.23	256	1.87
749.65	6.42	21.73	28.15	36.15	36.15	46	-9.85	291	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.54	2.29	6.30	28.07	53.31	33.83	40	-6.17	55	1.15
313.52	3.85	15.43	27.24	39.12	31.16	46	-14.84	161	1.88
398.96	4.48	16.19	27.87	36.33	29.14	46	-16.86	135	2.14
498.03	5.00	19.11	28.36	36.20	31.95	46	-14.05	32	2.45
719.00	6.24	21.88	28.25	29.38	29.24	46	-16.76	84	3.13
749.42	6.42	21.73	28.15	32.94	32.94	46	-13.06	290	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 166 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT40_CH159 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
311.38	3.84	15.42	27.22	42.79	34.83	46	-11.17	189	3.13
323.54	3.93	15.45	27.31	37.22	29.28	46	-16.72	146	3.09
490.60	4.95	18.36	28.32	34.35	29.34	46	-16.66	250	2.58
515.97	5.10	18.68	28.38	36.40	31.80	46	-14.20	11	2.50
624.12	5.70	20.48	28.40	32.05	29.83	46	-16.17	186	2.16
749.73	6.42	21.73	28.15	36.36	36.36	46	-9.64	312	1.77

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
77.01	2.29	6.35	28.07	51.32	31.89	40	-8.11	354	1.15
310.92	3.83	15.42	27.21	40.85	32.89	46	-13.11	226	1.87
398.55	4.48	16.19	27.87	36.23	29.04	46	-16.96	10	2.14
514.23	5.09	18.67	28.38	34.18	29.56	46	-16.44	133	2.50
719.44	6.24	21.88	28.25	28.78	28.64	46	-17.36	324	3.13
748.78	6.42	21.75	28.15	35.38	35.40	46	-10.60	234	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 167 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT80_CH155 (SISO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
314.65	3.86	15.43	27.24	40.41	32.46	46	-13.54	307	3.12
490.06	4.95	18.36	28.32	32.05	27.04	46	-18.96	33	2.58
514.70	5.09	18.67	28.38	31.78	27.16	46	-18.84	110	2.50
624.82	5.70	20.48	28.40	32.93	30.71	46	-15.29	213	2.16
719.99	6.24	21.88	28.25	28.85	28.71	46	-17.29	356	1.87
748.43	6.42	21.75	28.15	35.35	35.37	46	-10.63	298	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.31	2.29	6.30	28.07	51.83	32.35	40	-7.65	350	1.15
310.76	3.83	15.42	27.21	38.87	30.91	46	-15.09	197	1.87
398.94	4.48	16.19	27.87	36.72	29.53	46	-16.47	172	2.14
498.35	5.00	19.11	28.36	33.00	28.75	46	-17.25	309	2.45
514.48	5.09	18.67	28.38	36.48	31.86	46	-14.14	146	2.50
749.13	6.42	21.73	28.15	35.11	35.11	46	-10.89	175	3.22

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 168 of 420
Date: Dec. 28, 2017

Temperature:	24 °C	Humidity:	69 %RH
			5.8G
Frequency Range:	30 M – 1 GHz	Tested Mode:	802.11ac - HT80_CH155 (MIMO)
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	Richard	Tested Date:	Nov. 15, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
312.66	3.85	15.42	27.23	40.54	32.58	46	-13.42	51	3.13
488.15	4.94	18.33	28.31	36.72	31.68	46	-14.32	78	2.58
624.72	5.70	20.48	28.40	31.15	28.93	46	-17.07	197	2.16
679.31	6.01	21.42	28.34	29.43	28.52	46	-17.48	213	1.99
719.40	6.24	21.88	28.25	29.37	29.23	46	-16.77	239	1.87
747.98	6.41	21.78	28.16	34.35	34.38	46	-11.62	327	1.78

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
78.38	2.29	6.30	28.07	52.25	32.77	40	-7.23	30	1.15
314.69	3.86	15.43	27.24	40.08	32.13	46	-13.87	42	1.88
398.15	4.48	16.19	27.87	36.89	29.70	46	-16.30	158	2.14
493.44	4.97	18.64	28.34	33.14	28.42	46	-17.58	220	2.43
514.61	5.09	18.67	28.38	34.60	29.98	46	-16.02	59	2.50
749.97	6.42	21.73	28.15	36.56	36.56	46	-9.44	199	3.23

NOTE :

1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 169 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH36
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2873.61	-31.05	29.92	44.50	33.59	43.37	32.46	74	54	-30.63	-21.54	211	2.14
3151.02	-30.77	30.58	45.55	35.43	45.37	35.25	74	54	-28.63	-18.75	313	1.85
3564.83	-30.22	31.20	43.85	33.75	44.84	34.74	74	54	-29.16	-19.26	106	1.73
4277.97	-29.57	32.60	44.09	33.87	47.12	36.90	74	54	-26.88	-17.10	97	1.52
4763.24	-28.98	33.28	42.93	32.88	47.24	37.19	74	54	-26.76	-16.81	210	1.37
5429.70	-28.58	34.24	42.85	32.56	48.51	38.22	74	54	-25.49	-15.78	24	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2542.31	-31.22	28.66	45.30	35.17	42.74	32.61	74	54	-31.26	-21.39	115	1.34
2948.74	-31.01	30.20	44.18	34.11	43.38	33.31	74	54	-30.62	-20.69	109	1.58
3614.95	-30.18	31.36	44.82	34.44	46.01	35.63	74	54	-27.99	-18.37	205	1.78
4049.13	-29.82	32.60	43.76	33.15	46.54	35.93	74	54	-27.46	-18.07	199	1.91
4271.88	-29.58	32.60	43.96	33.69	46.98	36.71	74	54	-27.02	-17.29	197	1.98
5478.25	-28.57	34.28	43.07	32.32	48.78	38.03	74	54	-25.22	-15.97	281	2.22

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 170 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH36 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	85.23	74.71	90.65	80.13	--	--	--	--	122	1.42
10360.00	-26.56	38.00	43.14	32.05	54.58	43.49	74	54	-19.42	-10.51	104	1.57
15540.00	-23.90	37.84	32.99	22.62	46.93	36.56	74	54	-27.07	-17.44	255	1.45

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	87.19	76.89	92.61	82.31	--	--	--	--	52	1.49
10360.00	-26.56	38.00	43.25	31.95	54.69	43.39	74	54	-19.31	-10.61	137	1.50
15540.00	-23.90	37.84	33.14	22.67	47.08	36.61	74	54	-26.92	-17.39	240	1.43

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 171 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH40
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2519.82	-31.23	28.57	45.06	34.71	42.40	32.05	74	54	-31.60	-21.95	215	2.11
3251.44	-30.62	30.70	43.29	33.27	43.37	33.35	74	54	-30.63	-20.65	208	1.82
3797.05	-30.03	31.95	43.16	32.71	45.08	34.63	74	54	-28.92	-19.37	102	1.66
4242.93	-29.61	32.60	43.10	32.27	46.09	35.26	74	54	-27.91	-18.74	96	1.53
4883.25	-28.82	33.60	42.91	32.26	47.69	37.04	74	54	-26.31	-16.96	212	1.44
5450.67	-28.58	34.26	42.67	31.85	48.35	37.53	74	54	-25.65	-16.47	35	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2269.72	-31.43	28.22	44.65	34.12	41.44	30.91	74	54	-32.56	-23.09	29	1.38
2750.16	-31.11	29.45	43.79	33.67	42.13	32.01	74	54	-31.87	-21.99	174	1.53
2883.33	-31.04	29.96	46.35	35.61	45.26	34.52	74	54	-28.74	-19.48	112	1.56
4207.95	-29.65	32.60	43.17	32.24	46.12	35.19	74	54	-27.88	-18.81	196	1.96
4782.01	-28.95	33.33	43.27	32.57	47.65	36.95	74	54	-26.35	-17.05	190	2.13
5468.34	-28.58	34.27	42.09	31.29	47.79	36.99	74	54	-26.21	-17.01	280	2.28

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 172 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH40 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	88.46	78.91	93.90	84.35	--	--	--	--	189	1.54
10400.00	-26.52	38.00	42.55	31.27	54.03	42.75	74	54	-19.97	-11.25	220	1.56
15600.00	-23.90	37.76	32.66	21.22	46.52	35.08	74	54	-27.48	-18.92	159	1.51

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	88.94	77.95	94.38	83.39	--	--	--	--	47	1.59
10400.00	-26.52	38.00	42.88	31.25	54.36	42.73	74	54	-19.64	-11.27	94	1.40
15600.00	-23.90	37.76	33.34	21.21	47.20	35.07	74	54	-26.80	-18.93	344	1.58

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 173 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH48
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2316.64	-31.39	28.28	44.87	34.45	41.76	31.34	74	54	-32.24	-22.66	191	2.13
2958.75	-31.00	30.24	43.72	32.76	42.96	32.00	74	54	-31.04	-22.00	282	1.91
3297.11	-30.56	30.76	44.71	34.40	44.91	34.60	74	54	-29.09	-19.40	18	1.81
4188.33	-29.67	32.60	43.27	33.20	46.20	36.13	74	54	-27.80	-17.87	338	1.54
4751.98	-28.99	33.25	43.54	32.72	47.80	36.98	74	54	-26.20	-17.02	265	1.37
5626.50	-28.55	34.30	42.15	31.92	47.90	37.67	74	54	-26.10	-16.33	128	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2608.51	-31.18	28.91	44.37	33.59	42.10	31.32	74	54	-31.90	-22.68	158	1.24
3001.84	-30.98	30.40	44.02	33.67	43.44	33.09	74	54	-30.56	-20.91	193	1.60
3732.23	-30.08	31.74	43.34	33.02	45.00	34.68	74	54	-29.00	-19.32	331	1.82
4284.02	-29.56	32.60	43.14	32.87	46.18	35.91	74	54	-27.82	-18.09	6	1.99
4779.95	-28.96	33.33	42.77	32.51	47.14	36.88	74	54	-26.86	-17.12	108	2.13
5597.84	-28.55	34.30	43.63	33.07	49.38	38.82	74	54	-24.62	-15.18	47	2.19

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 174 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11a_CH48 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	87.36	76.67	92.84	82.15	--	--	--	--	227	1.49
10480.00	-26.46	38.00	41.05	30.85	52.59	42.39	74	54	-21.41	-11.61	354	1.51
15720.00	-23.90	37.59	31.63	20.99	45.33	34.69	74	54	-28.67	-19.31	350	1.47

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	86.86	76.04	92.34	81.52	--	--	--	--	54	1.60
10480.00	-26.46	38.00	41.36	30.95	52.90	42.49	74	54	-21.10	-11.51	86	1.60
15720.00	-23.90	37.59	31.38	20.98	45.08	34.68	74	54	-28.92	-19.32	254	1.47

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 175 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH36 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2524.47	-31.23	28.59	44.15	34.11	41.51	31.47	74	54	-32.49	-22.53	214	2.01
2977.98	-30.99	30.31	44.03	33.97	43.35	33.29	74	54	-30.65	-20.71	209	1.91
3408.19	-30.40	30.89	43.16	32.39	43.65	32.88	74	54	-30.35	-21.12	106	1.78
4251.22	-29.60	32.60	43.71	33.63	46.71	36.63	74	54	-27.29	-17.37	197	1.52
4789.50	-28.94	33.35	43.00	32.21	47.41	36.62	74	54	-26.59	-17.38	60	1.36
5552.34	-28.56	34.30	42.28	31.85	48.02	37.59	74	54	-25.98	-16.41	11	1.13

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2431.52	-31.30	28.42	44.64	34.52	41.76	31.64	74	54	-32.24	-22.36	116	1.23
2753.67	-31.11	29.46	44.40	33.94	42.75	32.29	74	54	-31.25	-21.71	112	1.53
2948.33	-31.01	30.20	44.71	33.84	43.91	33.04	74	54	-30.09	-20.96	109	1.58
4071.12	-29.79	32.60	43.39	32.92	46.20	35.73	74	54	-27.80	-18.27	199	1.92
4662.45	-29.11	33.02	43.74	33.25	47.65	37.16	74	54	-26.35	-16.84	39	2.10
5483.96	-28.57	34.29	42.36	31.88	48.07	37.59	74	54	-25.93	-16.41	280	2.22

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 176 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH36 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	87.21	76.94	92.63	82.36	--	--	--	--	141	1.50
10360.00	-26.56	38.00	41.49	30.85	52.93	42.29	74	54	-21.07	-11.71	241	1.52
15540.00	-23.90	37.84	32.40	21.69	46.34	35.63	74	54	-27.66	-18.37	117	1.51

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	86.94	76.32	92.36	81.74	--	--	--	--	216	1.59
10360.00	-26.56	38.00	41.42	30.73	52.86	42.17	74	54	-21.14	-11.83	63	1.57
15540.00	-23.90	37.84	31.49	21.38	45.43	35.32	74	54	-28.57	-18.68	284	1.43

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 177 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH40 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2642.01	-31.17	29.04	44.12	33.18	41.99	31.05	74	54	-32.01	-22.95	213	2.01
2941.35	-31.01	30.18	44.19	33.40	43.36	32.57	74	54	-30.64	-21.43	209	1.92
3613.97	-30.18	31.36	43.87	33.62	45.05	34.80	74	54	-28.95	-19.20	104	1.72
4664.61	-29.11	33.03	42.41	31.79	46.33	35.71	74	54	-27.67	-18.29	91	1.40
4968.43	-28.70	33.82	43.06	32.77	48.17	37.88	74	54	-25.83	-16.12	3	1.31
5551.84	-28.56	34.30	41.85	31.24	47.59	36.98	74	54	-26.41	-17.02	212	1.03

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
3039.95	-30.92	30.45	43.72	32.81	43.24	32.33	74	54	-30.76	-21.67	111	1.44
3621.12	-30.17	31.39	43.60	33.52	44.81	34.73	74	54	-29.19	-19.27	104	1.79
3914.33	-29.94	32.32	43.10	32.35	45.49	34.74	74	54	-28.51	-19.26	200	1.87
4283.84	-29.56	32.60	42.89	32.81	45.93	35.85	74	54	-28.07	-18.15	196	1.99
4922.76	-28.76	33.70	42.75	31.86	47.68	36.79	74	54	-26.32	-17.21	187	2.18
5431.80	-28.58	34.24	42.06	31.53	47.72	37.19	74	54	-26.28	-16.81	280	2.27

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 178 of 420
Date: Dec. 28, 2017

Temperature: 23 °C Humidity: 70 %RH
5.1G
Frequency Range: 1 GHz – 25 GHz Tested Mode: 802.11n - HT20_CH40 (SISO) (Fundamental and Harmonics)
Detector: PK. and AV. IF Bandwidth: 1 MHz
Tested By: Richard Lin Tested Date: Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	87.35	77.51	92.79	82.95	--	--	--	--	43	1.47
10400.00	-26.52	38.00	41.23	30.47	52.71	41.95	74	54	-21.29	-12.05	101	1.47
15600.00	-23.90	37.76	30.98	20.97	44.84	34.83	74	54	-29.16	-19.17	87	1.53

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	86.84	76.53	92.28	81.97	--	--	--	--	81	1.46
10400.00	-26.52	38.00	40.75	30.62	52.23	42.10	74	54	-21.77	-11.90	299	1.51
15600.00	-23.90	37.76	32.37	21.38	46.23	35.24	74	54	-27.77	-18.76	268	1.50

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 179 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH48 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2529.29	-31.22	28.61	45.42	35.31	42.81	32.70	74	54	-31.19	-21.30	216	2.14
2942.17	-31.01	30.18	44.43	33.87	43.60	33.04	74	54	-30.40	-20.96	209	1.92
3457.04	-30.33	30.95	43.55	33.19	44.17	33.81	74	54	-29.83	-20.19	106	1.76
4296.85	-29.55	32.60	44.02	33.04	47.07	36.09	74	54	-26.93	-17.91	97	1.51
4738.43	-29.01	33.22	42.48	31.53	46.69	35.74	74	54	-27.31	-18.26	301	1.38
5847.11	-28.51	34.30	42.46	32.29	48.25	38.08	74	54	-25.75	-15.92	15	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2972.65	-30.99	30.29	43.80	33.31	43.10	32.61	74	54	-30.90	-21.39	108	1.48
3294.33	-30.56	30.75	44.19	33.30	44.38	33.49	74	54	-29.62	-20.51	91	1.69
3741.82	-30.08	31.77	43.11	32.46	44.80	34.15	74	54	-29.20	-19.85	202	1.82
4244.57	-29.61	32.60	43.52	32.90	46.51	35.89	74	54	-27.49	-18.11	196	1.97
5097.42	-28.64	33.98	42.45	32.26	47.79	37.60	74	54	-26.21	-16.40	286	2.01
5573.89	-28.56	34.30	42.39	31.43	48.13	37.17	74	54	-25.87	-16.83	278	2.26

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 180 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH48 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	86.94	76.22	92.42	81.70	--	--	--	--	96	1.59
10480.00	-26.46	38.00	41.27	30.57	52.81	42.11	74	54	-21.19	-11.89	310	1.53
15720.00	-23.90	37.59	31.65	20.94	45.35	34.64	74	54	-28.65	-19.36	346	1.44

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	86.96	76.03	92.44	81.51	--	--	--	--	112	1.51
10480.00	-26.46	38.00	40.57	30.53	52.11	42.07	74	54	-21.89	-11.93	26	1.48
15720.00	-23.90	37.59	31.58	20.75	45.28	34.45	74	54	-28.72	-19.55	298	1.44

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 181 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH36 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2188.40	-31.50	28.13	45.19	34.52	41.82	31.15	74	54	-32.18	-22.85	288	2.22
2967.94	-31.00	30.27	44.24	34.13	43.52	33.41	74	54	-30.48	-20.59	209	1.91
3896.25	-29.95	32.27	43.43	32.56	45.74	34.87	74	54	-28.26	-19.13	101	1.63
4201.03	-29.65	32.60	42.75	32.49	45.70	35.44	74	54	-28.30	-18.56	196	1.54
4709.81	-29.05	33.14	43.69	33.09	47.78	37.18	74	54	-26.22	-16.82	315	1.39
5638.64	-28.55	34.30	41.85	31.50	47.60	37.25	74	54	-26.40	-16.75	13	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
3082.58	-30.86	30.50	43.60	32.94	43.23	32.57	74	54	-30.77	-21.43	111	1.44
3287.29	-30.57	30.74	43.60	33.30	43.77	33.47	74	54	-30.23	-20.53	109	1.69
3801.40	-30.03	31.96	43.42	32.96	45.35	34.89	74	54	-28.65	-19.11	301	1.84
4296.15	-29.55	32.60	44.07	33.73	47.12	36.78	74	54	-26.88	-17.22	197	1.99
5006.97	-28.66	33.90	42.84	32.35	48.09	37.60	74	54	-25.91	-16.40	286	2.20
5714.84	-28.53	34.30	41.71	30.84	47.48	36.61	74	54	-26.52	-17.39	276	2.31

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 182 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH36 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	87.31	77.06	92.73	82.48	--	--	--	--	55	1.42
10360.00	-26.56	38.00	41.14	30.97	52.58	42.41	74	54	-21.42	-11.59	342	1.51
15540.00	-23.90	37.84	31.89	21.75	45.83	35.69	74	54	-28.17	-18.31	97	1.49

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	86.83	76.08	92.25	81.50	--	--	--	--	187	1.49
10360.00	-26.56	38.00	40.74	30.38	52.18	41.82	74	54	-21.82	-12.18	85	1.41
15540.00	-23.90	37.84	31.74	21.38	45.68	35.32	74	54	-28.32	-18.68	73	1.49

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 183 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH40 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2418.75	-31.31	28.40	45.70	34.92	42.79	32.01	74	54	-31.21	-21.99	217	2.17
3182.14	-30.72	30.62	43.37	33.25	43.27	33.15	74	54	-30.73	-20.85	209	1.85
3419.03	-30.39	30.90	44.28	33.34	44.80	33.86	74	54	-29.20	-20.14	107	1.77
4406.28	-29.43	32.60	42.66	32.39	45.83	35.56	74	54	-28.17	-18.44	93	1.48
4701.66	-29.06	33.12	43.35	32.41	47.41	36.47	74	54	-26.59	-17.53	341	1.39
5462.95	-28.58	34.27	41.78	31.34	47.47	37.03	74	54	-26.53	-16.97	210	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2869.19	-31.05	29.90	44.39	33.52	43.24	32.37	74	54	-30.76	-21.63	110	1.48
3507.43	-30.26	31.02	44.25	33.44	45.01	34.20	74	54	-28.99	-19.80	106	1.75
3921.24	-29.93	32.35	42.53	31.82	44.94	34.23	74	54	-29.06	-19.77	200	1.88
4244.70	-29.61	32.60	43.35	32.90	46.34	35.89	74	54	-27.66	-18.11	196	1.97
5098.94	-28.64	33.98	43.14	32.69	48.48	38.03	74	54	-25.52	-15.97	286	2.23
5506.51	-28.57	34.30	43.01	32.47	48.74	38.20	74	54	-25.26	-15.80	279	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 184 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH40 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	86.99	76.40	92.43	81.84	--	--	--	--	155	1.47
10400.00	-26.52	38.00	41.99	31.19	53.47	42.67	74	54	-20.53	-11.33	70	1.44
15600.00	-23.90	37.76	31.24	21.05	45.10	34.91	74	54	-28.90	-19.09	134	1.57

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	86.80	75.96	92.24	81.40	--	--	--	--	244	1.54
10400.00	-26.52	38.00	41.43	30.74	52.91	42.22	74	54	-21.09	-11.78	35	1.42
15600.00	-23.90	37.76	31.24	21.02	45.10	34.88	74	54	-28.90	-19.12	216	1.45

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 185 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH48 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2144.38	-31.53	28.07	45.65	35.03	42.19	31.57	74	54	-31.81	-22.43	221	2.24
2639.19	-31.17	29.03	44.29	33.30	42.15	31.16	74	54	-31.85	-22.84	213	2.01
3337.46	-30.50	30.80	43.35	32.65	43.65	32.95	74	54	-30.35	-21.05	107	1.80
3651.89	-30.15	31.48	43.93	33.20	45.26	34.53	74	54	-28.74	-19.47	104	1.70
4762.92	-28.98	33.28	43.49	32.68	47.79	36.98	74	54	-26.21	-17.02	341	1.37
5486.01	-28.57	34.29	41.65	31.57	47.37	37.29	74	54	-26.63	-16.71	11	1.23

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2741.06	-31.11	29.42	43.94	33.92	42.24	32.22	74	54	-31.76	-21.78	111	1.54
3183.83	-30.72	30.62	44.40	33.86	44.30	33.76	74	54	-29.70	-20.24	118	1.66
3619.29	-30.17	31.38	43.65	33.00	44.86	34.21	74	54	-29.14	-19.79	54	1.79
4244.48	-29.61	32.60	42.93	32.74	45.92	35.73	74	54	-28.08	-18.27	196	1.97
4922.62	-28.76	33.70	42.69	32.38	47.62	37.31	74	54	-26.38	-16.69	187	2.18
5717.13	-28.53	34.30	42.04	31.24	47.81	37.01	74	54	-26.19	-16.99	276	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 186 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT20_CH48 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	87.05	77.07	92.53	82.55	--	--	--	--	207	1.42
10480.00	-26.46	38.00	40.42	30.41	51.96	41.95	74	54	-22.04	-12.05	108	1.59
15720.00	-23.90	37.59	31.43	20.60	45.13	34.30	74	54	-28.87	-19.70	350	1.57

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	86.96	76.25	92.44	81.73	--	--	--	--	85	1.58
10480.00	-26.46	38.00	41.55	30.68	53.09	42.22	74	54	-20.91	-11.78	89	1.47
15720.00	-23.90	37.59	30.92	20.74	44.62	34.44	74	54	-29.38	-19.56	15	1.54

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 187 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH38 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2392.90	-31.33	28.37	45.01	34.98	42.05	32.02	74	54	-31.95	-21.98	218	2.14
2968.72	-31.00	30.28	44.32	33.60	43.60	32.88	74	54	-30.40	-21.12	309	1.91
3224.31	-30.66	30.67	43.65	33.35	43.66	33.36	74	54	-30.34	-20.64	209	1.83
3758.05	-30.06	31.83	43.35	32.45	45.11	34.21	74	54	-28.89	-19.79	102	1.67
4057.86	-29.81	32.60	43.54	32.82	46.33	35.61	74	54	-27.67	-18.39	99	1.58
5621.79	-28.55	34.30	43.53	33.13	49.28	38.88	74	54	-24.72	-15.12	12	1.09

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2497.71	-31.24	28.50	44.70	34.21	41.95	31.46	74	54	-32.05	-22.54	115	1.45
2866.39	-31.05	29.89	43.98	33.66	42.82	32.50	74	54	-31.18	-21.50	110	1.56
3601.62	-30.19	31.32	43.64	33.26	44.77	34.39	74	54	-29.23	-19.61	207	1.78
3798.90	-30.03	31.95	43.49	32.63	45.41	34.55	74	54	-28.59	-19.45	202	1.84
4232.12	-29.62	32.60	42.82	32.52	45.80	35.50	74	54	-28.20	-18.50	196	1.97
5644.03	-28.54	34.30	43.04	32.92	48.80	38.68	74	54	-25.20	-15.32	278	2.38

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 188 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT40_CH38 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	87.23	76.44	92.66	81.87	--	--	--	--	157	1.48
10380.00	-26.54	38.00	41.49	30.63	52.95	42.09	74	54	-21.05	-11.91	143	1.55
15570.00	-23.90	37.80	31.90	20.98	45.80	34.88	74	54	-28.20	-19.12	120	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	86.76	76.19	92.19	81.62	--	--	--	--	354	1.56
10380.00	-26.54	38.00	40.88	30.54	52.34	42.00	74	54	-21.66	-12.00	114	1.49
15570.00	-23.90	37.80	32.14	21.20	46.04	35.10	74	54	-27.96	-18.90	129	1.45

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 189 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH46 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2291.61	-31.41	28.25	44.86	34.16	41.70	31.00	74	54	-32.30	-23.00	219	2.17
2394.08	-31.33	28.37	44.48	33.80	41.53	30.85	74	54	-32.47	-23.15	217	2.08
2873.37	-31.05	29.92	44.84	34.01	43.71	32.88	74	54	-30.29	-21.12	111	1.94
3249.29	-30.63	30.70	44.29	34.13	44.36	34.20	74	54	-29.64	-19.80	210	1.83
4912.11	-28.78	33.67	42.81	32.43	47.70	37.32	74	54	-26.30	-16.68	313	1.33
5448.53	-28.58	34.26	42.40	31.49	48.08	37.17	74	54	-25.92	-16.83	10	1.07

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1968.46	-31.70	27.79	46.16	35.17	42.25	31.26	74	54	-31.75	-22.74	33	1.12
2729.15	-31.12	29.37	44.67	34.59	42.92	32.84	74	54	-31.08	-21.16	112	1.52
3240.27	-30.64	30.69	44.27	33.46	44.32	33.51	74	54	-29.68	-20.49	110	1.67
3907.84	-29.94	32.30	42.75	31.95	45.11	34.31	74	54	-28.89	-19.69	200	1.87
4796.52	-28.93	33.37	43.21	32.37	47.65	36.81	74	54	-26.35	-17.19	341	2.14
5908.91	-28.50	34.30	42.82	32.42	48.62	38.22	74	54	-25.38	-15.78	274	2.37

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 190 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT40_CH46 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	87.12	76.80	92.59	82.27	--	--	--	--	258	1.53
10460.00	-26.47	38.00	41.13	31.03	52.66	42.56	74	54	-21.34	-11.44	38	1.44
15690.00	-23.90	37.63	31.57	20.86	45.31	34.60	74	54	-28.69	-19.40	128	1.45

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	87.03	76.14	92.50	81.61	--	--	--	--	238	1.47
10460.00	-26.47	38.00	41.43	31.00	52.96	42.53	74	54	-21.04	-11.47	28	1.45
15690.00	-23.90	37.63	30.90	20.88	44.64	34.62	74	54	-29.36	-19.38	111	1.57

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 191 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH38 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2517.34	-31.23	28.56	44.09	33.92	41.42	31.25	74	54	-32.58	-22.75	214	2.14
3698.92	-30.11	31.63	43.36	33.01	44.88	34.53	74	54	-29.12	-19.47	104	1.75
3912.16	-29.94	32.32	43.14	32.32	45.52	34.70	74	54	-28.48	-19.30	100	1.63
4351.88	-29.49	32.60	43.69	32.72	46.80	35.83	74	54	-27.20	-18.17	95	1.49
4949.37	-28.73	33.77	42.77	32.62	47.81	37.66	74	54	-26.19	-16.34	233	1.32
5377.95	-28.59	34.20	42.88	32.49	48.49	38.10	74	54	-25.51	-15.90	158	1.19

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2352.03	-31.36	28.32	44.33	34.03	41.29	30.99	74	54	-32.71	-23.01	117	1.41
3138.85	-30.78	30.57	44.75	34.14	44.53	33.92	74	54	-29.47	-20.08	155	1.64
3759.29	-30.06	31.83	44.40	34.30	46.17	36.07	74	54	-27.83	-17.93	203	1.83
4271.10	-29.58	32.60	43.73	33.21	46.75	36.23	74	54	-27.25	-17.77	197	1.98
4946.48	-28.73	33.76	42.22	31.99	47.25	37.02	74	54	-26.75	-16.98	187	2.18
5597.35	-28.55	34.30	42.88	32.17	48.63	37.92	74	54	-25.37	-16.08	279	2.28

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 192 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT40_CH38 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	87.07	77.22	92.50	82.65	--	--	--	--	354	1.42
10380.00	-26.54	38.00	42.00	31.31	53.46	42.77	74	54	-20.54	-11.23	216	1.50
15570.00	-23.90	37.80	32.52	22.02	46.42	35.92	74	54	-27.58	-18.08	324	1.48

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	87.10	76.41	92.53	81.84	--	--	--	--	302	1.53
10380.00	-26.54	38.00	41.36	31.32	52.82	42.78	74	54	-21.18	-11.22	84	1.56
15570.00	-23.90	37.80	32.25	21.40	46.15	35.30	74	54	-27.85	-18.70	108	1.55

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 193 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT40_CH46 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2532.51	-31.22	28.62	45.98	35.02	43.38	32.42	74	54	-30.62	-21.58	216	2.19
2969.74	-31.00	30.28	45.57	34.98	44.86	34.27	74	54	-29.14	-19.73	210	1.91
3677.22	-30.13	31.57	44.38	33.85	45.82	35.29	74	54	-28.18	-18.71	104	1.70
4236.80	-29.62	32.60	44.86	34.53	47.84	37.51	74	54	-26.16	-16.49	98	1.53
4723.68	-29.03	33.18	45.75	35.54	49.90	39.69	74	54	-24.10	-14.31	298	1.38
5901.93	-28.50	34.30	43.71	32.86	49.51	38.66	74	54	-24.49	-15.34	15	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
3122.25	-30.81	30.55	45.08	34.23	44.82	33.97	74	54	-29.18	-20.03	112	1.64
3459.62	-30.33	30.95	44.96	34.84	45.58	35.46	74	54	-28.42	-18.54	108	1.74
4123.90	-29.74	32.60	44.47	33.79	47.33	36.65	74	54	-26.67	-17.35	198	1.94
4276.33	-29.57	32.60	44.43	34.04	47.46	37.07	74	54	-26.54	-16.93	77	1.98
4921.05	-28.77	33.69	43.80	32.90	48.73	37.83	74	54	-25.27	-16.17	188	2.18
5423.74	-28.58	34.24	43.92	32.95	49.57	38.60	74	54	-24.43	-15.40	282	2.24

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 194 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11n - HT40_CH46 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	87.21	76.63	92.68	82.10	--	--	--	--	318	1.49
10460.00	-26.47	38.00	41.43	31.17	52.96	42.70	74	54	-21.04	-11.30	237	1.43
15690.00	-23.90	37.63	31.44	20.86	45.18	34.60	74	54	-28.82	-19.40	115	1.42

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	86.74	76.45	92.21	81.92	--	--	--	--	265	1.40
10460.00	-26.47	38.00	41.77	31.45	53.30	42.98	74	54	-20.70	-11.02	307	1.44
15690.00	-23.90	37.63	32.11	21.42	45.85	35.16	74	54	-28.15	-18.84	135	1.56

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 195 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH36 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2311.34	-31.39	28.27	45.44	35.38	42.32	32.26	74	54	-31.68	-21.74	87	2.11
2664.01	-31.15	29.12	45.10	34.81	43.07	32.78	74	54	-30.93	-21.22	291	2.00
3982.96	-29.88	32.54	44.34	34.30	47.00	36.96	74	54	-27.00	-17.04	163	1.61
4239.75	-29.61	32.60	44.84	34.67	47.83	37.66	74	54	-26.17	-16.34	232	1.53
4913.54	-28.78	33.67	43.72	33.44	48.62	38.34	74	54	-25.38	-15.66	295	1.33
5448.27	-28.58	34.26	42.89	32.45	48.57	38.13	74	54	-25.43	-15.87	27	1.17

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2129.02	-31.54	28.05	46.20	35.30	42.71	31.81	74	54	-31.29	-22.19	75	1.34
3246.83	-30.63	30.70	44.38	34.10	44.44	34.16	74	54	-29.56	-19.84	247	1.67
3657.95	-30.14	31.50	45.00	34.91	46.36	36.27	74	54	-27.64	-17.73	208	1.80
4228.44	-29.62	32.60	44.13	33.31	47.11	36.29	74	54	-26.89	-17.71	110	1.97
4731.12	-29.02	33.20	44.88	34.07	49.06	38.25	74	54	-24.94	-15.75	54	2.12
5626.14	-28.55	34.30	43.58	32.71	49.33	38.46	74	54	-24.67	-15.54	189	2.39

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 196 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH36 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	87.05	77.51	92.47	82.93	--	--	--	--	328	1.57
10360.00	-26.56	38.00	41.84	31.24	53.28	42.68	74	54	-20.72	-11.32	343	1.47
15540.00	-23.90	37.84	32.56	21.69	46.50	35.63	74	54	-27.50	-18.37	115	1.60

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	89.69	78.76	95.11	84.18	--	--	--	--	208	1.54
10360.00	-26.56	38.00	41.61	30.89	53.05	42.33	74	54	-20.95	-11.67	74	1.60
15540.00	-23.90	37.84	31.67	21.40	45.61	35.34	74	54	-28.39	-18.66	325	1.52

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 197 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH40 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2496.18	-31.24	28.50	44.83	34.77	42.08	32.02	74	54	-31.92	-21.98	127	2.05
2948.33	-31.01	30.20	44.68	34.27	43.88	33.47	74	54	-30.12	-20.53	97	1.92
3257.64	-30.62	30.71	44.92	34.63	45.01	34.72	74	54	-28.99	-19.28	319	1.82
4251.85	-29.60	32.60	44.09	33.98	47.09	36.98	74	54	-26.91	-17.02	255	1.52
4946.22	-28.73	33.76	43.24	33.18	48.27	38.21	74	54	-25.73	-15.79	315	1.32
5526.09	-28.57	34.30	44.30	33.52	50.03	39.25	74	54	-23.97	-14.75	171	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2874.29	-31.05	29.92	44.90	34.53	43.78	33.41	74	54	-30.22	-20.59	253	1.56
3249.89	-30.63	30.70	44.99	34.76	45.06	34.83	74	54	-28.94	-19.17	98	1.67
3706.40	-30.11	31.66	44.91	34.02	46.46	35.57	74	54	-27.54	-18.43	185	1.81
4402.34	-29.44	32.60	44.44	34.00	47.60	37.16	74	54	-26.40	-16.84	344	2.02
5038.55	-28.65	33.93	43.62	32.68	48.90	37.96	74	54	-25.10	-16.04	255	2.21
5581.12	-28.56	34.30	43.16	33.00	48.90	38.74	74	54	-25.10	-15.26	130	2.37

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 198 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH40 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	87.99	78.80	93.43	84.24	--	--	--	--	162	1.46
10400.00	-26.52	38.00	41.92	31.10	53.40	42.58	74	54	-20.60	-11.42	343	1.53
15600.00	-23.90	37.76	31.39	21.35	45.25	35.21	74	54	-28.75	-18.79	35	1.56

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	88.38	77.89	93.82	83.33	--	--	--	--	295	1.46
10400.00	-26.52	38.00	41.74	31.68	53.22	43.16	74	54	-20.78	-10.84	59	1.47
15600.00	-23.90	37.76	32.15	21.31	46.01	35.17	74	54	-27.99	-18.83	320	1.53

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 199 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH48 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2493.78	-31.25	28.49	45.60	35.33	42.85	32.58	74	54	-31.15	-21.42	219	2.05
3098.21	-30.84	30.52	44.59	34.30	44.27	33.98	74	54	-29.73	-20.02	346	1.87
3619.46	-30.17	31.38	45.21	34.44	46.42	35.65	74	54	-27.58	-18.35	17	1.71
4037.93	-29.83	32.60	44.74	34.08	47.51	36.85	74	54	-26.49	-17.15	293	1.59
4751.05	-28.99	33.25	44.01	33.39	48.27	37.65	74	54	-25.73	-16.35	104	1.37
5462.11	-28.58	34.27	42.92	32.43	48.61	38.12	74	54	-25.39	-15.88	28	1.16

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2309.49	-31.40	28.27	44.65	33.80	41.52	30.67	74	54	-32.48	-23.33	171	1.39
3085.16	-30.86	30.50	43.96	33.15	43.60	32.79	74	54	-30.40	-21.21	40	1.63
3617.02	-30.18	31.37	44.56	33.97	45.76	35.17	74	54	-28.24	-18.83	214	1.79
4244.55	-29.61	32.60	43.97	33.44	46.96	36.43	74	54	-27.04	-17.57	32	1.97
4942.37	-28.74	33.75	45.00	34.26	50.01	39.27	74	54	-23.99	-14.73	172	2.18
5676.98	-28.54	34.30	42.42	31.99	48.18	37.75	74	54	-25.82	-16.25	354	2.40

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 200 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH48 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	88.26	77.53	93.74	83.01	--	--	--	--	185	1.43
10480.00	-26.46	38.00	41.15	31.10	52.69	42.64	74	54	-21.31	-11.36	137	1.60
15720.00	-23.90	37.59	31.54	20.89	45.24	34.59	74	54	-28.76	-19.41	60	1.53

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	86.77	76.76	92.25	82.24	--	--	--	--	38	1.44
10480.00	-26.46	38.00	41.92	30.94	53.46	42.48	74	54	-20.54	-11.52	212	1.55
15720.00	-23.90	37.59	31.68	21.03	45.38	34.73	74	54	-28.62	-19.27	294	1.52

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 201 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH36 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2624.51	-31.18	28.97	44.82	34.57	42.62	32.37	74	54	-31.38	-21.63	201	2.01
3078.62	-30.87	30.49	45.82	35.41	45.44	35.03	74	54	-28.56	-18.97	158	1.88
3906.93	-29.95	32.30	44.57	33.91	46.92	36.26	74	54	-27.08	-17.74	65	1.63
4187.02	-29.67	32.60	43.96	33.76	46.89	36.69	74	54	-27.11	-17.31	260	1.54
4749.88	-29.00	33.25	43.98	33.83	48.23	38.08	74	54	-25.77	-15.92	149	1.38
5711.69	-28.53	34.30	43.32	32.85	49.09	38.62	74	54	-24.91	-15.38	117	1.09

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
3229.45	-30.65	30.67	45.04	34.15	45.06	34.17	74	54	-28.94	-19.83	129	1.67
4136.28	-29.72	32.60	44.97	34.18	47.85	37.06	74	54	-26.15	-16.94	113	1.94
4252.94	-29.60	32.60	45.06	34.67	48.06	37.67	74	54	-25.94	-16.33	250	1.98
4650.75	-29.13	32.99	44.75	33.92	48.61	37.78	74	54	-25.39	-16.22	11	2.10
4807.31	-28.92	33.40	44.33	34.03	48.81	38.51	74	54	-25.19	-15.49	53	2.14
5428.60	-28.58	34.24	43.25	33.00	48.91	38.66	74	54	-25.09	-15.34	220	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 202 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH36 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	88.67	79.17	94.09	84.59	--	--	--	--	346	1.51
10360.00	-26.56	38.00	41.25	30.79	52.69	42.23	74	54	-21.31	-11.77	74	1.53
15540.00	-23.90	37.84	32.01	21.62	45.95	35.56	74	54	-28.05	-18.44	320	1.54

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5180.00 (F)	-28.63	34.04	88.79	78.19	94.21	83.61	--	--	--	--	177	1.57
10360.00	-26.56	38.00	41.35	31.19	52.79	42.63	74	54	-21.21	-11.37	233	1.58
15540.00	-23.90	37.84	32.02	21.40	45.96	35.34	74	54	-28.04	-18.66	178	1.55

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 203 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH40 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2938.42	-31.01	30.16	45.48	35.22	44.63	34.37	74	54	-29.37	-19.63	308	1.92
3136.96	-30.79	30.56	45.24	34.64	45.02	34.42	74	54	-28.98	-19.58	116	1.86
3729.53	-30.09	31.73	44.35	34.32	46.00	35.97	74	54	-28.00	-18.03	353	1.68
4221.88	-29.63	32.60	43.36	32.91	46.33	35.88	74	54	-27.67	-18.12	52	1.53
4902.04	-28.79	33.65	43.73	33.01	48.58	37.86	74	54	-25.42	-16.14	119	1.33
5627.71	-28.55	34.30	42.58	31.76	48.33	37.51	74	54	-25.67	-16.49	269	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2492.22	-31.25	28.49	44.33	34.14	41.57	31.38	74	54	-32.43	-22.62	137	1.45
3123.90	-30.81	30.55	45.04	34.82	44.78	34.56	74	54	-29.22	-19.44	65	1.64
3418.83	-30.39	30.90	44.13	33.46	44.65	33.98	74	54	-29.35	-20.02	89	1.73
4081.69	-29.78	32.60	42.91	32.79	45.73	35.61	74	54	-28.27	-18.39	241	1.92
4719.14	-29.04	33.17	43.43	32.53	47.56	36.66	74	54	-26.44	-17.34	157	2.12
5594.51	-28.55	34.30	44.14	33.25	49.89	39.00	74	54	-24.11	-15.00	277	2.38

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 204 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH40 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	88.33	77.44	93.77	82.88	--	--	--	--	187	1.47
10400.00	-26.52	38.00	40.67	30.64	52.15	42.12	74	54	-21.85	-11.88	213	1.52
15600.00	-23.90	37.76	31.77	21.31	45.63	35.17	74	54	-28.37	-18.83	246	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5200.00 (F)	-28.62	34.06	86.89	76.03	92.33	81.47	--	--	--	--	214	1.40
10400.00	-26.52	38.00	41.75	31.13	53.23	42.61	74	54	-20.77	-11.39	210	1.53
15600.00	-23.90	37.76	32.22	21.35	46.08	35.21	74	54	-27.92	-18.79	79	1.55

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 205 of 420
Date: Dec. 28, 2017

Temperature: 23 °C

Humidity: 70 %RH

Frequency Range: 1 GHz – 25 GHz

Tested Mode: 5.1G
802.11ac - HT20_CH48
(MIMO)

Detector Type: PK. and AV.

IF Bandwidth: 1 MHz

Tested By: Richard Lin

Tested Date: Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2128.65	-31.55	28.05	44.94	34.68	41.45	31.19	74	54	-32.55	-22.81	205	2.16
2784.78	-31.09	29.58	43.87	33.23	42.36	31.72	74	54	-31.64	-22.28	87	1.96
3241.03	-30.64	30.69	44.42	34.25	44.47	34.30	74	54	-29.53	-19.70	61	1.83
3817.42	-30.02	32.01	43.85	33.50	45.85	35.50	74	54	-28.15	-18.50	233	1.65
4692.09	-29.07	33.10	44.48	34.18	48.51	38.21	74	54	-25.49	-15.79	334	1.39
5633.81	-28.55	34.30	43.13	32.46	48.88	38.21	74	54	-25.12	-15.79	213	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2452.92	-31.28	28.44	44.34	33.62	41.50	30.78	74	54	-32.50	-23.22	276	1.44
2886.05	-31.04	29.97	44.83	34.74	43.76	33.67	74	54	-30.24	-20.33	51	1.57
3477.33	-30.30	30.97	45.21	34.40	45.88	35.07	74	54	-28.12	-18.93	230	1.74
4231.78	-29.62	32.60	44.15	33.90	47.13	36.88	74	54	-26.87	-17.12	330	1.97
4983.19	-28.68	33.86	43.51	32.82	48.68	37.99	74	54	-25.32	-16.01	59	2.19
5549.40	-28.56	34.30	43.09	32.44	48.83	38.18	74	54	-25.17	-15.82	288	2.36

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 206 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT20_CH48 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	87.40	76.73	92.88	82.21	--	--	--	--	290	1.59
10480.00	-26.46	38.00	42.05	31.08	53.59	42.62	74	54	-20.41	-11.38	85	1.57
15720.00	-23.90	37.59	31.35	20.82	45.05	34.52	74	54	-28.95	-19.48	133	1.46

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5240.00 (F)	-28.62	34.09	87.81	77.13	93.29	82.61	--	--	--	--	39	1.56
10480.00	-26.46	38.00	41.42	31.11	52.96	42.65	74	54	-21.04	-11.35	267	1.54
15720.00	-23.90	37.59	31.04	20.72	44.74	34.42	74	54	-29.26	-19.58	251	1.49

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 207 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH38 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2862.61	-31.05	29.88	46.26	35.52	45.08	34.34	74	54	-28.92	-19.66	360	1.94
3331.94	-30.51	30.80	45.97	35.89	46.26	36.18	74	54	-27.74	-17.82	260	1.80
3797.01	-30.03	31.95	45.66	35.05	47.58	36.97	74	54	-26.42	-17.03	92	1.66
4179.45	-29.68	32.60	45.62	35.55	48.54	38.47	74	54	-25.46	-15.53	255	1.55
4744.22	-29.00	33.23	44.84	34.33	49.07	38.56	74	54	-24.93	-15.44	272	1.38
5548.68	-28.56	34.30	44.30	33.89	50.04	39.63	74	54	-23.96	-14.37	172	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2826.91	-31.07	29.74	45.81	35.31	44.48	33.98	74	54	-29.52	-20.02	44	1.55
3257.02	-30.62	30.71	46.31	35.63	46.40	35.72	74	54	-27.60	-18.28	20	1.68
2802.33	-31.08	29.65	48.40	38.13	46.96	36.69	74	54	-27.04	-17.31	119	1.54
4093.84	-29.77	32.60	44.90	34.17	47.73	37.00	74	54	-26.27	-17.00	339	1.93
4729.79	-29.02	33.20	45.25	34.35	49.42	38.52	74	54	-24.58	-15.48	325	2.12
5548.15	-28.56	34.30	44.24	33.38	49.98	39.12	74	54	-24.02	-14.88	40	2.36

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 208 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT40_CH38 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	87.21	77.32	92.64	82.75	--	--	--	--	100	1.43
10380.00	-26.54	38.00	42.29	32.05	53.75	43.51	74	54	-20.25	-10.49	343	1.55
15570.00	-23.90	37.80	32.51	21.78	46.41	35.68	74	54	-27.59	-18.32	199	1.46

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	87.10	76.78	92.53	82.21	--	--	--	--	309	1.47
10380.00	-26.54	38.00	41.84	31.72	53.30	43.18	74	54	-20.70	-10.82	169	1.43
15570.00	-23.90	37.80	32.22	21.67	46.12	35.57	74	54	-27.88	-18.43	245	1.60

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 209 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH46 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2937.30	-31.01	30.16	46.81	35.87	45.96	35.02	74	54	-28.04	-18.98	322	1.92
3419.86	-30.39	30.90	45.26	35.23	45.78	35.75	74	54	-28.22	-18.25	176	1.77
3672.94	-30.13	31.55	45.32	34.90	46.74	36.32	74	54	-27.26	-17.68	265	1.70
4248.02	-29.60	32.60	44.94	34.81	47.94	37.81	74	54	-26.06	-16.19	359	1.53
4688.55	-29.08	33.09	45.70	35.52	49.71	39.53	74	54	-24.29	-14.47	292	1.39
5516.67	-28.57	34.30	44.63	33.77	50.36	39.50	74	54	-23.64	-14.50	137	1.14

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1592.58	-32.33	26.51	49.85	39.35	44.04	33.54	74	54	-29.96	-20.46	62	1.18
2851.69	-31.06	29.83	46.13	35.59	44.91	34.37	74	54	-29.09	-19.63	115	1.56
3268.91	-30.60	30.72	45.81	35.35	45.93	35.47	74	54	-28.07	-18.53	69	1.68
4242.28	-29.61	32.60	45.19	35.00	48.18	37.99	74	54	-25.82	-16.01	90	1.97
4738.05	-29.01	33.22	45.27	34.29	49.48	38.50	74	54	-24.52	-15.50	203	2.12
5576.44	-28.56	34.30	44.06	33.59	49.80	39.33	74	54	-24.20	-14.67	161	2.37

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 210 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT40_CH46 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	86.51	77.76	91.98	83.23	--	--	--	--	226	1.56
10460.00	-26.47	38.00	42.56	32.40	54.09	43.93	74	54	-19.91	-10.07	302	1.41
15690.00	-23.90	37.63	31.79	21.46	45.53	35.20	74	54	-28.47	-18.80	256	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	85.20	74.38	90.67	79.85	--	--	--	--	133	1.56
10460.00	-26.47	38.00	42.69	31.83	54.22	43.36	74	54	-19.78	-10.64	45	1.52
15690.00	-23.90	37.63	32.48	22.03	46.22	35.77	74	54	-27.78	-18.23	313	1.58

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 211 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH38 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2181.88	-31.50	28.12	46.03	35.24	42.65	31.86	74	54	-31.35	-22.14	37	2.15
2774.43	-31.10	29.54	45.72	34.97	44.16	33.41	74	54	-29.84	-20.59	116	1.97
3663.74	-30.14	31.52	45.17	35.15	46.55	36.53	74	54	-27.45	-17.47	166	1.70
4159.02	-29.70	32.60	45.84	35.63	48.74	38.53	74	54	-25.26	-15.47	115	1.55
4798.37	-28.93	33.37	44.40	33.90	48.84	38.34	74	54	-25.16	-15.66	206	1.36
5602.55	-28.55	34.30	43.96	33.52	49.71	39.27	74	54	-24.29	-14.73	98	1.12

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1593.85	-32.33	26.52	48.68	38.53	42.87	32.72	74	54	-31.13	-21.28	116	1.18
2857.96	-31.05	29.86	45.73	35.31	44.53	34.11	74	54	-29.47	-19.89	357	1.56
3619.52	-30.17	31.38	44.85	34.38	46.06	35.59	74	54	-27.94	-18.41	244	1.79
4249.35	-29.60	32.60	45.04	35.04	48.04	38.04	74	54	-25.96	-15.96	350	1.97
4781.08	-28.95	33.33	44.65	33.89	49.03	38.27	74	54	-24.97	-15.73	272	2.13
5723.69	-28.53	34.30	43.51	32.86	49.28	38.63	74	54	-24.72	-15.37	238	2.42

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 212 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT40_CH38 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	85.13	74.87	90.56	80.30	--	--	--	--	171	1.44
10380.00	-26.54	38.00	42.37	31.81	53.83	43.27	74	54	-20.17	-10.73	96	1.42
15570.00	-23.90	37.80	32.27	22.09	46.17	35.99	74	54	-27.83	-18.01	83	1.54

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5190.00 (F)	-28.63	34.05	86.20	75.24	91.63	80.67	--	--	--	--	223	1.52
10380.00	-26.54	38.00	42.48	31.57	53.94	43.03	74	54	-20.06	-10.97	44	1.47
15570.00	-23.90	37.80	32.04	21.77	45.94	35.67	74	54	-28.06	-18.33	127	1.58

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 213 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT40_CH46 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2551.76	-31.21	28.69	46.16	35.72	43.64	33.20	74	54	-30.36	-20.80	195	2.03
2874.51	-31.05	29.92	46.22	35.92	45.10	34.80	74	54	-28.90	-19.20	45	1.94
3477.40	-30.30	30.97	45.26	34.31	45.93	34.98	74	54	-28.07	-19.02	183	1.76
4251.89	-29.60	32.60	45.94	35.09	48.94	38.09	74	54	-25.06	-15.91	130	1.52
4930.21	-28.75	33.72	45.43	35.34	50.39	40.30	74	54	-23.61	-13.70	189	1.32
5648.92	-28.54	34.30	44.08	33.41	49.84	39.17	74	54	-24.16	-14.83	327	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2488.73	-31.25	28.49	46.65	36.17	43.89	33.41	74	54	-30.11	-20.59	352	1.45
2961.35	-31.00	30.25	45.00	34.65	44.25	33.90	74	54	-29.75	-20.10	281	1.59
3432.88	-30.37	30.92	44.81	33.81	45.36	34.36	74	54	-28.64	-19.64	175	1.73
4264.01	-29.58	32.60	44.89	34.15	47.91	37.17	74	54	-26.09	-16.83	29	1.98
4917.29	-28.77	33.68	44.48	34.32	49.39	39.23	74	54	-24.61	-14.77	347	2.18
5463.64	-28.58	34.27	42.96	32.86	48.65	38.55	74	54	-25.35	-15.45	49	2.34

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 214 of 420
Date: Dec. 28, 2017

Temperature: 23 °C Humidity: 70 %RH
5.1G
Frequency Range: 1 GHz – 25 GHz Tested Mode: 802.11ac - HT40_CH46 (MIMO) (Fundamental and Harmonics)
Detector: PK. and AV. IF Bandwidth: 1 MHz
Tested By: Richard Lin Tested Date: Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	86.59	76.04	92.06	81.51	--	--	--	--	201	1.58
10460.00	-26.47	38.00	42.47	32.20	54.00	43.73	74	54	-20.00	-10.27	213	1.43
15690.00	-23.90	37.63	32.51	21.61	46.25	35.35	74	54	-27.75	-18.65	91	1.53

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5230.00 (F)	-28.62	34.08	85.37	75.22	90.84	80.69	--	--	--	--	101	1.47
10460.00	-26.47	38.00	42.37	31.74	53.90	43.27	74	54	-20.10	-10.73	265	1.42
15690.00	-23.90	37.63	32.48	21.50	46.22	35.24	74	54	-27.78	-18.76	192	1.57

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 215 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT80_CH42 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2752.80	-31.11	29.46	46.32	35.77	44.67	34.12	74	54	-29.33	-19.88	201	1.97
2968.24	-31.00	30.28	46.08	35.47	45.36	34.75	74	54	-28.64	-19.25	105	1.91
3624.11	-30.17	31.40	44.94	34.61	46.17	35.84	74	54	-27.83	-18.16	160	1.71
4031.95	-29.84	32.60	45.10	34.79	47.86	37.55	74	54	-26.14	-16.45	85	1.59
4833.78	-28.88	33.47	44.62	33.73	49.20	38.31	74	54	-24.80	-15.69	227	1.35
5649.99	-28.54	34.30	43.80	33.18	49.56	38.94	74	54	-24.44	-15.06	339	1.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2504.68	-31.24	28.52	46.23	35.63	43.51	32.91	74	54	-30.49	-21.09	228	1.45
3253.25	-30.62	30.70	44.75	34.71	44.83	34.79	74	54	-29.17	-19.21	132	1.68
3650.17	-30.15	31.48	44.10	34.06	45.43	35.39	74	54	-28.57	-18.61	252	1.80
4287.98	-29.56	32.60	44.33	34.24	47.37	37.28	74	54	-26.63	-16.72	136	1.99
4756.44	-28.99	33.27	44.42	33.94	48.70	38.22	74	54	-25.30	-15.78	29	2.13
5831.03	-28.51	34.30	43.89	33.54	49.68	39.33	74	54	-24.32	-14.67	266	2.45

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 216 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT80_CH42 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5210.00 (F)	-28.62	34.07	83.65	73.43	89.10	78.88	--	--	--	--	278	1.43
10420.00	-26.51	38.00	42.43	31.70	53.92	43.19	74	54	-20.08	-10.81	203	1.51
15630.00	-23.90	37.72	31.96	20.99	45.78	34.81	74	54	-28.22	-19.19	240	1.50

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5210.00 (F)	-28.62	34.07	84.40	73.55	89.85	79.00	--	--	--	--	166	1.47
10420.00	-26.51	38.00	41.88	31.62	53.37	43.11	74	54	-20.63	-10.89	248	1.50
15630.00	-23.90	37.72	31.99	21.37	45.81	35.19	74	54	-28.19	-18.81	341	1.54

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 217 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.1G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT80_CH42 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2752.17	-31.11	29.46	45.82	35.35	44.17	33.70	74	54	-29.83	-20.30	320	1.97
2957.03	-31.00	30.24	46.11	35.28	45.34	34.51	74	54	-28.66	-19.49	193	1.91
3664.82	-30.14	31.52	45.87	35.02	47.26	36.41	74	54	-26.74	-17.59	186	1.70
4239.94	-29.61	32.60	44.97	34.80	47.96	37.79	74	54	-26.04	-16.21	298	1.53
4758.22	-28.98	33.27	44.78	34.33	49.07	38.62	74	54	-24.93	-15.38	60	1.37
5451.63	-28.58	34.26	43.62	33.17	49.30	38.85	74	54	-24.70	-15.15	118	1.16

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2867.41	-31.05	29.89	45.19	34.61	44.04	33.46	74	54	-29.96	-20.54	40	1.56
3250.90	-30.63	30.70	45.34	34.61	45.41	34.69	74	54	-28.59	-19.32	149	1.68
3618.84	-30.18	31.38	44.89	34.56	46.09	35.76	74	54	-27.91	-18.24	58	1.79
4257.16	-29.59	32.60	45.04	34.79	48.05	37.80	74	54	-25.95	-16.20	130	1.98
4801.73	-28.93	33.38	44.77	34.40	49.23	38.86	74	54	-24.77	-15.14	211	2.14
5572.24	-28.56	34.30	44.02	33.11	49.76	38.85	74	54	-24.24	-15.15	238	2.37

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 218 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.1G 802.11ac - HT80_CH42 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5210.00 (F)	-28.62	34.07	83.39	72.47	88.84	77.92	--	--	--	--	272	1.45
10420.00	-26.51	38.00	42.53	31.79	54.02	43.28	74	54	-19.98	-10.72	351	1.43
15630.00	-23.90	37.72	31.80	21.58	45.62	35.40	74	54	-28.38	-18.60	189	1.41

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5210.00 (F)	-28.62	34.07	83.34	73.17	88.79	78.62	--	--	--	--	211	1.41
10420.00	-26.51	38.00	42.51	31.65	54.00	43.14	74	54	-20.00	-10.86	10	1.47
15630.00	-23.90	37.72	31.09	21.06	44.91	34.88	74	54	-29.09	-19.12	272	1.48

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 219 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH149
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2631.05	-31.17	29.00	45.04	34.20	42.87	32.03	74	54	-31.13	-21.97	214	2.30
2944.48	-31.01	30.19	45.42	34.95	44.60	34.13	74	54	-29.40	-19.87	211	1.92
3508.67	-30.26	31.03	45.11	35.05	45.87	35.81	74	54	-28.13	-18.19	307	1.75
4009.14	-29.86	32.60	44.26	33.51	47.00	36.25	74	54	-27.00	-17.75	100	1.60
5123.98	-28.64	34.00	44.49	34.23	49.85	39.59	74	54	-24.15	-14.41	48	1.26
5926.27	-28.49	34.30	43.93	32.97	49.74	38.78	74	54	-24.26	-15.22	15	1.19

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2847.19	-31.06	29.82	45.60	34.91	44.36	33.67	74	54	-29.64	-20.33	112	1.34
3662.50	-30.14	31.52	44.71	34.42	46.09	35.80	74	54	-27.91	-18.20	53	1.80
3804.34	-30.03	31.97	44.21	33.44	46.16	35.39	74	54	-27.84	-18.61	202	1.84
4276.82	-29.57	32.60	44.34	34.09	47.37	37.12	74	54	-26.63	-16.88	97	1.98
5281.97	-28.61	34.12	43.87	33.19	49.39	38.71	74	54	-24.61	-15.29	284	2.28
5623.02	-28.55	34.30	43.63	33.02	49.38	38.77	74	54	-24.62	-15.23	279	2.38

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 220 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH149 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	87.13	78.23	92.90	84.00	--	--	--	--	15	1.41
11490.00	-26.18	38.99	39.06	29.06	51.86	41.86	74	54	-22.14	-12.14	295	1.48
17235.00	-22.80	42.52	32.38	21.44	52.10	41.16	74	54	-21.90	-12.84	165	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	86.91	76.66	92.68	82.43	--	--	--	--	277	1.52
11490.00	-26.18	38.99	39.65	29.48	52.45	42.28	74	54	-21.55	-11.72	64	1.54
17235.00	-22.80	42.52	31.90	21.15	51.62	40.87	74	54	-22.38	-13.13	26	1.44

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 221 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH157
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2732.54	-31.12	29.38	45.46	34.78	43.72	33.04	74	54	-30.28	-20.96	213	2.21
3078.02	-30.87	30.49	45.05	34.71	44.67	34.33	74	54	-29.33	-19.67	213	1.88
3741.88	-30.08	31.77	45.28	35.25	46.97	36.94	74	54	-27.03	-17.06	104	1.68
4259.39	-29.59	32.60	44.32	33.88	47.33	36.89	74	54	-26.67	-17.11	98	1.52
4907.16	-28.78	33.66	44.49	34.27	49.36	39.14	74	54	-24.64	-14.86	316	1.33
5574.48	-28.56	34.30	43.66	33.21	49.40	38.95	74	54	-24.60	-15.05	10	1.04

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2964.50	-31.00	30.26	45.36	35.04	44.62	34.30	74	54	-29.38	-19.70	110	1.68
3801.44	-30.03	31.96	44.86	34.41	46.79	36.34	74	54	-27.21	-17.66	203	1.84
4272.98	-29.58	32.60	45.43	34.73	48.45	37.75	74	54	-25.55	-16.25	85	1.98
4796.31	-28.93	33.37	44.93	34.92	49.37	39.36	74	54	-24.63	-14.64	191	2.14
5116.07	-28.64	33.99	44.44	33.73	49.79	39.08	74	54	-24.21	-14.92	287	2.23
5288.19	-28.61	34.13	43.67	33.52	49.19	39.04	74	54	-24.81	-14.96	283	2.37

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 222 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH157 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.10	76.22	92.88	82.00	--	--	--	--	351	1.53
11570.00	-26.16	39.04	39.92	29.90	52.80	42.78	74	54	-21.20	-11.22	315	1.42
17355.00	-22.73	43.55	30.35	20.11	51.17	40.93	74	54	-22.83	-13.07	182	1.50

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.11	76.15	92.89	81.93	--	--	--	--	338	1.54
11570.00	-26.16	39.04	40.23	29.85	53.11	42.73	74	54	-20.89	-11.27	106	1.44
17355.00	-22.73	43.55	30.32	19.85	51.14	40.67	74	54	-22.86	-13.33	121	1.58

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 223 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH165
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2322.69	-31.39	28.29	45.87	35.11	42.77	32.01	74	54	-31.23	-21.99	218	2.11
2874.25	-31.05	29.92	46.30	35.76	45.18	34.64	74	54	-28.82	-19.36	212	1.94
3248.84	-30.63	30.70	45.44	35.30	45.51	35.37	74	54	-28.49	-18.63	211	1.83
4201.13	-29.65	32.60	45.58	34.59	48.53	37.54	74	54	-25.47	-16.46	99	1.54
4733.07	-29.02	33.21	44.94	33.97	49.13	38.16	74	54	-24.87	-15.84	252	1.38
5264.95	-28.61	34.11	43.39	32.95	48.89	38.45	74	54	-25.11	-15.55	6	1.21

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2516.56	-31.23	28.56	45.23	34.83	42.56	32.16	74	54	-31.44	-21.84	116	1.44
2969.72	-31.00	30.28	45.99	35.87	45.28	35.16	74	54	-28.72	-18.84	111	1.59
3617.01	-30.18	31.37	44.53	33.59	45.73	34.79	74	54	-28.27	-19.21	25	1.79
4188.93	-29.67	32.60	44.21	34.09	47.14	37.02	74	54	-26.86	-16.98	199	1.96
4902.46	-28.79	33.65	44.28	33.39	49.13	38.24	74	54	-24.87	-15.76	89	2.17
5107.29	-28.64	33.99	44.04	33.35	49.38	38.69	74	54	-24.62	-15.31	286	2.24

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 224 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11a_CH165 (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	86.92	77.88	92.71	83.67	--	--	--	--	212	1.54
11650.00	-26.14	39.09	40.15	29.78	53.10	42.73	74	54	-20.90	-11.27	153	1.56
17475.00	-22.66	44.59	29.94	19.21	51.86	41.13	74	54	-22.14	-12.87	244	1.48

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	86.89	76.83	92.68	82.62	--	--	--	--	277	1.51
11650.00	-26.14	39.09	40.58	30.12	53.53	43.07	74	54	-20.47	-10.93	133	1.49
17475.00	-22.66	44.59	29.48	19.05	51.40	40.97	74	54	-22.60	-13.03	124	1.57

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 225 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH149 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2623.36	-31.18	28.97	46.44	36.12	44.23	33.91	74	54	-29.77	-20.09	15	2.08
2971.83	-31.00	30.29	44.84	34.48	44.13	33.77	74	54	-29.87	-20.23	210	1.91
3662.01	-30.14	31.52	44.34	33.81	45.72	35.19	74	54	-28.28	-18.81	105	1.70
4197.42	-29.66	32.60	44.31	33.76	47.25	36.70	74	54	-26.75	-17.30	99	1.54
4954.99	-28.72	33.78	44.58	33.60	49.64	38.66	74	54	-24.36	-15.34	18	1.31
5402.57	-28.59	34.22	43.43	33.32	49.06	38.95	74	54	-24.94	-15.05	159	1.18

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2959.45	-31.00	30.24	45.20	34.58	44.44	33.82	74	54	-29.56	-20.18	10	1.47
3524.01	-30.25	31.08	43.75	33.44	44.58	34.27	74	54	-29.42	-19.73	202	1.76
3661.38	-30.14	31.52	45.09	34.97	46.46	36.34	74	54	-27.54	-17.66	305	1.80
4238.96	-29.61	32.60	43.36	33.00	46.35	35.99	74	54	-27.65	-18.01	96	1.97
4958.24	-28.72	33.79	43.96	33.89	49.03	38.96	74	54	-24.97	-15.04	188	2.19
5456.16	-28.58	34.26	44.68	34.21	50.37	39.90	74	54	-23.63	-14.10	282	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 226 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH149 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	87.38	78.03	93.15	83.80	--	--	--	--	37	1.40
11490.00	-26.18	38.99	39.95	29.22	52.75	42.02	74	54	-21.25	-11.98	191	1.57
17235.00	-22.80	42.52	31.64	21.41	51.36	41.13	74	54	-22.64	-12.87	118	1.41

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	86.98	76.09	92.75	81.86	--	--	--	--	247	1.49
11490.00	-26.18	38.99	39.77	29.66	52.57	42.46	74	54	-21.43	-11.54	69	1.58
17235.00	-22.80	42.52	31.89	21.29	51.61	41.01	74	54	-22.39	-12.99	92	1.43

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 227 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH157 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2309.40	-31.40	28.27	46.00	35.18	42.87	32.05	74	54	-31.13	-21.95	12	2.11
3073.91	-30.88	30.49	44.40	33.62	44.01	33.23	74	54	-29.99	-20.77	35	1.88
3957.82	-29.90	32.46	44.41	34.26	46.97	36.82	74	54	-27.03	-17.18	221	1.61
4272.17	-29.58	32.60	43.88	33.02	46.90	36.04	74	54	-27.10	-17.96	183	1.52
4901.36	-28.79	33.64	44.07	33.76	48.92	38.61	74	54	-25.08	-15.39	151	1.33
5516.54	-28.57	34.30	43.24	33.07	48.97	38.80	74	54	-25.03	-15.20	268	1.15

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2297.65	-31.41	28.26	46.32	36.07	43.17	32.92	74	54	-30.83	-21.08	242	1.29
2872.03	-31.05	29.91	45.29	34.86	44.16	33.73	74	54	-29.84	-20.27	340	1.56
3409.92	-30.40	30.89	44.99	34.32	45.48	34.81	74	54	-28.52	-19.19	199	1.72
4408.87	-29.43	32.60	44.71	34.06	47.88	37.23	74	54	-26.12	-16.77	320	2.02
4816.14	-28.91	33.42	45.88	35.07	50.40	39.59	74	54	-23.60	-14.41	31	2.14
5126.09	-28.64	34.00	44.51	34.26	49.87	39.62	74	54	-24.13	-14.38	6	2.24

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 228 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH157 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.93	77.71	93.71	83.49	--	--	--	--	191	1.45
11570.00	-26.16	39.04	40.73	29.82	53.61	42.70	74	54	-20.39	-11.30	246	1.55
17355.00	-22.73	43.55	30.50	20.23	51.32	41.05	74	54	-22.68	-12.95	111	1.42

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.53	76.92	93.31	82.70	--	--	--	--	310	1.43
11570.00	-26.16	39.04	40.44	29.58	53.32	42.46	74	54	-20.68	-11.54	208	1.58
17355.00	-22.73	43.55	30.64	19.87	51.46	40.69	74	54	-22.54	-13.31	337	1.60

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 229 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH165 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2147.58	-31.53	28.08	46.23	35.91	42.78	32.46	74	54	-31.22	-21.54	253	2.18
2643.37	-31.17	29.04	45.56	35.23	43.44	33.11	74	54	-30.56	-20.89	81	2.01
2971.25	-31.00	30.29	45.09	34.56	44.38	33.85	74	54	-29.62	-20.15	41	1.91
3512.97	-30.26	31.04	44.99	34.92	45.77	35.70	74	54	-28.23	-18.30	173	1.75
4279.02	-29.57	32.60	44.12	33.52	47.15	36.55	74	54	-26.85	-17.45	218	1.52
4788.68	-28.94	33.35	45.00	34.54	49.40	38.94	74	54	-24.60	-15.06	22	1.36

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2193.20	-31.49	28.13	45.23	35.14	41.87	31.78	74	54	-32.13	-22.22	226	1.25
2762.56	-31.10	29.50	45.04	34.78	43.43	33.17	74	54	-30.57	-20.83	165	1.53
3749.91	-30.07	31.80	44.10	33.98	45.83	35.71	74	54	-28.17	-18.29	153	1.82
4208.03	-29.65	32.60	44.53	34.34	47.48	37.29	74	54	-26.52	-16.71	349	1.96
5077.85	-28.65	33.96	44.05	33.54	49.37	38.86	74	54	-24.63	-15.14	201	2.22
5488.96	-28.57	34.29	43.12	32.98	48.84	38.70	74	54	-25.16	-15.30	49	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 230 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH165 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	89.22	79.69	95.01	85.48	--	--	--	--	104	1.44
11650.00	-26.14	39.09	40.05	29.55	53.00	42.50	74	54	-21.00	-11.50	353	1.45
17475.00	-22.66	44.59	29.21	19.20	51.13	41.12	74	54	-22.87	-12.88	356	1.46

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	88.54	78.28	94.33	84.07	--	--	--	--	280	1.56
11650.00	-26.14	39.09	40.57	29.64	53.52	42.59	74	54	-20.48	-11.41	14	1.43
17475.00	-22.66	44.59	30.16	19.46	52.08	41.38	74	54	-21.92	-12.62	92	1.56

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 231 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH149 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2271.78	-31.43	28.23	45.58	35.51	42.38	32.31	74	54	-31.62	-21.69	219	2.12
2749.42	-31.11	29.45	45.59	34.62	43.93	32.96	74	54	-30.07	-21.04	317	1.98
2863.98	-31.05	29.88	45.87	35.43	44.70	34.26	74	54	-29.30	-19.74	212	1.94
3664.50	-30.14	31.52	44.03	33.45	45.42	34.84	74	54	-28.58	-19.16	42	1.70
3942.12	-29.92	32.41	44.46	33.85	46.96	36.35	74	54	-27.04	-17.65	101	1.62
4911.86	-28.78	33.67	43.19	32.99	48.08	37.88	74	54	-25.92	-16.12	292	1.33

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2408.64	-31.32	28.39	45.89	35.78	42.96	32.85	74	54	-31.04	-21.15	117	1.42
2613.28	-31.18	28.93	45.91	35.63	43.66	33.38	74	54	-30.34	-20.62	115	1.48
3611.09	-30.18	31.36	44.32	33.81	45.49	34.98	74	54	-28.51	-19.02	305	1.78
3847.44	-29.99	32.11	43.80	33.23	45.92	35.35	74	54	-28.08	-18.65	201	1.85
4292.80	-29.55	32.60	44.44	33.56	47.49	36.61	74	54	-26.51	-17.39	197	1.99
5109.38	-28.64	33.99	44.76	34.23	50.11	39.58	74	54	-23.89	-14.42	286	2.23

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 232 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH149 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	87.70	79.01	93.47	84.78	--	--	--	--	324	1.60
11490.00	-26.18	38.99	39.75	29.13	52.55	41.93	74	54	-21.45	-12.07	135	1.47
17235.00	-22.80	42.52	31.40	21.23	51.12	40.95	74	54	-22.88	-13.05	329	1.60

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	87.02	76.54	92.79	82.31	--	--	--	--	180	1.56
11490.00	-26.18	38.99	39.45	29.23	52.25	42.03	74	54	-21.75	-11.97	148	1.45
17235.00	-22.80	42.52	31.52	21.46	51.24	41.18	74	54	-22.76	-12.82	109	1.50

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 233 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH157 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2863.09	-31.05	29.88	45.46	34.58	44.29	33.41	74	54	-29.71	-20.59	212	2.04
3281.45	-30.58	30.74	44.57	34.02	44.73	34.18	74	54	-29.27	-19.82	209	1.82
3652.31	-30.15	31.49	43.94	33.58	45.28	34.92	74	54	-28.72	-19.08	105	1.70
4269.64	-29.58	32.60	44.28	33.69	47.30	36.71	74	54	-26.70	-17.29	97	1.52
4674.19	-29.10	33.05	44.11	33.70	48.07	37.66	74	54	-25.93	-16.34	158	1.40
5277.53	-28.61	34.12	43.40	33.03	48.91	38.54	74	54	-25.09	-15.46	6	1.22

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2288.02	-31.41	28.25	45.93	35.02	42.76	31.85	74	54	-31.24	-22.15	30	1.39
2979.74	-30.99	30.32	45.24	34.66	44.57	33.99	74	54	-29.43	-20.01	110	1.59
3826.29	-30.01	32.04	44.17	33.38	46.20	35.41	74	54	-27.80	-18.59	307	1.85
4278.16	-29.57	32.60	44.55	34.24	47.58	37.27	74	54	-26.42	-16.73	197	1.98
4991.33	-28.67	33.88	44.17	33.32	49.37	38.52	74	54	-24.63	-15.48	188	2.20
5513.87	-28.57	34.30	44.43	33.99	50.16	39.72	74	54	-23.84	-14.28	281	2.33

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 234 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH157 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.72	77.22	93.50	83.00	--	--	--	--	192	1.48
11570.00	-26.16	39.04	40.55	29.76	53.43	42.64	74	54	-20.57	-11.36	357	1.40
17355.00	-22.73	43.55	30.85	19.98	51.67	40.80	74	54	-22.33	-13.20	199	1.47

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	86.81	76.61	92.59	82.39	--	--	--	--	312	1.59
11570.00	-26.16	39.04	40.61	29.87	53.49	42.75	74	54	-20.51	-11.25	296	1.59
17355.00	-22.73	43.55	30.58	19.78	51.40	40.60	74	54	-22.60	-13.40	171	1.57

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 235 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT20_CH165 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1819.37	-31.95	27.28	46.11	35.17	41.44	30.50	74	54	-32.56	-23.50	325	2.25
2497.24	-31.24	28.50	45.95	35.94	43.20	33.19	74	54	-30.80	-20.81	217	2.05
2868.11	-31.05	29.90	46.15	35.47	45.00	34.32	74	54	-29.00	-19.68	12	1.94
3506.98	-30.27	31.02	44.68	34.20	45.43	34.95	74	54	-28.57	-19.05	106	1.75
4202.52	-29.65	32.60	44.22	33.59	47.17	36.54	74	54	-26.83	-17.46	97	1.54
5044.43	-28.65	33.94	44.52	34.08	49.80	39.36	74	54	-24.20	-14.64	322	1.29

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1818.97	-31.95	27.28	46.98	36.72	42.31	32.05	74	54	-31.69	-21.95	36	1.25
2444.02	-31.29	28.43	47.37	37.27	44.52	34.42	74	54	-29.48	-19.58	118	1.43
2943.80	-31.01	30.18	46.09	35.80	45.26	34.97	74	54	-28.74	-19.03	11	1.58
3611.42	-30.18	31.36	44.52	33.54	45.69	34.71	74	54	-28.31	-19.29	105	1.78
4287.66	-29.56	32.60	44.82	34.13	47.86	37.17	74	54	-26.14	-16.83	198	1.99
5042.37	-28.65	33.93	43.96	33.16	49.24	38.44	74	54	-24.76	-15.56	287	2.21

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 236 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT20_CH165 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	86.93	78.99	92.72	84.78	--	--	--	--	126	1.54
11650.00	-26.14	39.09	40.79	30.21	53.74	43.16	74	54	-20.26	-10.84	100	1.43
17475.00	-22.66	44.59	29.50	19.40	51.42	41.32	74	54	-22.58	-12.68	164	1.45

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	86.14	76.85	91.93	82.64	--	--	--	--	270	1.53
11650.00	-26.14	39.09	40.50	29.97	53.45	42.92	74	54	-20.55	-11.08	109	1.53
17475.00	-22.66	44.59	29.18	18.99	51.10	40.91	74	54	-22.90	-13.09	210	1.50

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 237 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH151 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2308.62	-31.40	28.27	46.30	36.13	43.17	33.00	74	54	-30.83	-21.00	345	2.11
2431.93	-31.30	28.42	46.72	36.23	43.84	33.35	74	54	-30.16	-20.65	107	2.07
3039.04	-30.92	30.45	45.56	34.95	45.08	34.47	74	54	-28.92	-19.53	232	1.89
3707.81	-30.10	31.66	45.79	35.19	47.35	36.75	74	54	-26.65	-17.25	28	1.69
4256.75	-29.59	32.60	45.40	34.85	48.41	37.86	74	54	-25.59	-16.14	235	1.52
4891.43	-28.81	33.62	44.06	33.36	48.87	38.17	74	54	-25.13	-15.83	171	1.33

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2301.98	-31.40	28.26	46.16	36.08	43.02	32.94	74	54	-30.98	-21.06	21	1.39
3082.42	-30.86	30.50	42.27	31.95	41.90	31.58	74	54	-32.10	-22.42	126	1.62
3664.66	-30.14	31.52	43.70	33.03	45.09	34.42	74	54	-28.91	-19.58	169	1.80
4121.78	-29.74	32.60	45.19	35.16	48.05	38.02	74	54	-25.95	-15.98	228	1.94
4819.05	-28.90	33.43	43.68	32.97	48.21	37.50	74	54	-25.79	-16.50	240	2.15
5513.94	-28.57	34.30	43.52	32.80	49.25	38.53	74	54	-24.75	-15.47	126	2.35

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 238 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT40_CH151 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.96	77.56	93.74	83.34	--	--	--	--	176	1.59
11510.00	-26.18	39.01	40.12	29.26	52.95	42.09	74	54	-21.05	-11.91	37	1.60
17265.00	-22.78	42.78	32.03	21.15	52.03	41.15	74	54	-21.97	-12.85	222	1.48

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	86.86	75.95	92.64	81.73	--	--	--	--	93	1.55
11510.00	-26.18	39.01	40.09	29.24	52.92	42.07	74	54	-21.08	-11.93	240	1.40
17265.00	-22.78	42.78	31.01	20.70	51.01	40.70	74	54	-22.99	-13.30	147	1.44

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 239 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH159 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2391.45	-31.33	28.37	46.19	35.33	43.23	32.37	74	54	-30.77	-21.63	228	2.08
2857.07	-31.05	29.86	44.94	33.94	43.74	32.74	74	54	-30.26	-21.26	55	1.94
3612.99	-30.18	31.36	43.79	32.83	44.97	34.01	74	54	-29.03	-19.99	310	1.72
4223.16	-29.63	32.60	44.24	34.16	47.21	37.13	74	54	-26.79	-16.87	316	1.53
4649.84	-29.13	32.99	44.35	33.81	48.21	37.67	74	54	-25.79	-16.33	96	1.41
5018.53	-28.66	33.91	43.68	32.71	48.94	37.97	74	54	-25.06	-16.03	17	1.29

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2268.36	-31.43	28.22	46.69	36.01	43.48	32.80	74	54	-30.52	-21.20	89	1.38
2496.90	-31.24	28.50	44.73	34.07	41.98	31.32	74	54	-32.02	-22.68	157	1.45
2849.24	-31.06	29.83	46.26	35.84	45.03	34.61	74	54	-28.97	-19.39	291	1.55
4207.67	-29.65	32.60	44.91	34.32	47.86	37.27	74	54	-26.14	-16.73	171	1.96
4771.15	-28.97	33.30	44.02	33.53	48.36	37.87	74	54	-25.64	-16.13	109	2.13
5264.34	-28.61	34.11	43.65	33.14	49.15	38.64	74	54	-24.85	-15.36	18	2.28

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 240 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT40_CH159 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	87.72	77.49	93.50	83.27	--	--	--	--	330	1.41
11590.00	-26.16	39.05	39.94	29.48	52.84	42.38	74	54	-21.16	-11.62	227	1.58
17385.00	-22.71	43.81	30.03	19.40	51.13	40.50	74	54	-22.87	-13.50	85	1.56

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	87.18	76.39	92.96	82.17	--	--	--	--	246	1.48
11590.00	-26.16	39.05	39.75	29.49	52.65	42.39	74	54	-21.35	-11.61	273	1.60
17385.00	-22.71	43.81	30.42	19.59	51.52	40.69	74	54	-22.48	-13.31	87	1.56

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 241 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH151 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2761.56	-31.10	29.49	46.09	35.73	44.48	34.12	74	54	-29.52	-19.88	146	1.97
3009.08	-30.97	30.41	46.16	35.46	45.60	34.90	74	54	-28.40	-19.10	202	1.90
4032.31	-29.84	32.60	44.40	34.33	47.16	37.09	74	54	-26.84	-16.91	32	1.59
4218.75	-29.63	32.60	44.03	33.41	47.00	36.38	74	54	-27.00	-17.62	27	1.53
4757.23	-28.99	33.27	43.86	33.03	48.14	37.31	74	54	-25.86	-16.69	233	1.37
4976.92	-28.69	33.84	43.20	32.37	48.35	37.52	74	54	-25.65	-16.48	102	1.31

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2148.80	-31.53	28.08	45.59	34.71	42.14	31.26	74	54	-31.86	-22.74	264	1.34
2712.23	-31.13	29.31	44.68	34.30	42.86	32.48	74	54	-31.14	-21.52	338	1.51
3459.98	-30.33	30.95	45.33	35.05	45.95	35.67	74	54	-28.05	-18.33	197	1.74
4022.41	-29.85	32.60	43.66	33.65	46.41	36.40	74	54	-27.59	-17.60	284	1.91
4426.65	-29.41	32.60	43.92	33.07	47.11	36.26	74	54	-26.89	-17.74	151	2.03
5007.71	-28.66	33.91	43.60	33.41	48.85	38.66	74	54	-25.15	-15.34	104	2.20

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 242 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT40_CH151 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.98	77.13	93.76	82.91	--	--	--	--	254	1.51
11510.00	-26.18	39.01	40.10	29.34	52.93	42.17	74	54	-21.07	-11.83	248	1.58
17265.00	-22.78	42.78	31.59	21.07	51.59	41.07	74	54	-22.41	-12.93	310	1.47

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.05	76.43	92.83	82.21	--	--	--	--	128	1.41
11510.00	-26.18	39.01	40.18	29.46	53.01	42.29	74	54	-20.99	-11.71	254	1.42
17265.00	-22.78	42.78	31.96	21.17	51.96	41.17	74	54	-22.04	-12.83	35	1.49

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 243 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11n - HT40_CH159 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2558.68	-31.21	28.72	46.12	35.48	43.63	32.99	74	54	-30.37	-21.01	252	2.03
2859.97	-31.05	29.86	45.52	34.56	44.33	33.37	74	54	-29.67	-20.63	76	1.94
3167.13	-30.74	30.60	44.31	33.56	44.17	33.42	74	54	-29.83	-20.58	25	1.85
4152.02	-29.71	32.60	44.78	34.19	47.67	37.08	74	54	-26.33	-16.92	179	1.55
4656.51	-29.12	33.01	44.13	33.53	48.01	37.41	74	54	-25.99	-16.59	282	1.40
5091.59	-28.64	33.97	43.63	33.01	48.96	38.34	74	54	-25.04	-15.66	263	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2267.82	-31.43	28.22	45.31	35.23	42.10	32.02	74	54	-31.90	-21.98	273	1.38
2869.00	-31.05	29.90	45.91	35.48	44.76	34.33	74	54	-29.24	-19.67	78	1.56
3712.64	-30.10	31.68	43.91	33.33	45.49	34.91	74	54	-28.51	-19.09	36	1.81
4282.91	-29.57	32.60	45.08	34.34	48.11	37.37	74	54	-25.89	-16.63	63	1.98
5094.39	-28.64	33.98	43.69	33.31	49.02	38.64	74	54	-24.98	-15.36	241	2.23
5461.54	-28.58	34.27	43.21	32.88	48.90	38.57	74	54	-25.10	-15.43	359	2.34

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 244 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11n - HT40_CH159 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	88.05	79.17	93.83	84.95	--	--	--	--	142	1.47
11590.00	-26.16	39.05	40.48	29.83	53.38	42.73	74	54	-20.62	-11.27	120	1.55
17385.00	-22.71	43.81	29.87	19.66	50.97	40.76	74	54	-23.03	-13.24	216	1.54

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	87.14	76.55	92.92	82.33	--	--	--	--	220	1.41
11590.00	-26.16	39.05	40.20	29.50	53.10	42.40	74	54	-20.90	-11.60	167	1.58
17385.00	-22.71	43.81	30.41	19.54	51.51	40.64	74	54	-22.49	-13.36	353	1.47

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 245 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH149 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2262.40	-31.44	28.21	46.16	35.71	42.94	32.49	74	54	-31.06	-21.51	38	2.12
2973.13	-30.99	30.30	46.25	35.55	45.55	34.85	74	54	-28.45	-19.15	130	1.91
3478.64	-30.30	30.97	44.39	33.73	45.06	34.40	74	54	-28.94	-19.60	44	1.76
4029.22	-29.84	32.60	44.22	34.15	46.98	36.91	74	54	-27.02	-17.09	285	1.59
4781.98	-28.95	33.33	44.67	34.35	49.05	38.73	74	54	-24.95	-15.27	358	1.37
5107.55	-28.64	33.99	43.72	33.16	49.06	38.50	74	54	-24.94	-15.50	207	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2452.65	-31.28	28.44	47.81	37.34	44.97	34.50	74	54	-29.03	-19.50	124	1.44
3144.92	-30.78	30.57	44.52	34.36	44.32	34.16	74	54	-29.68	-19.84	197	1.64
3608.01	-30.18	31.35	44.36	34.09	45.52	35.25	74	54	-28.48	-18.75	218	1.78
4049.87	-29.82	32.60	43.90	33.51	46.68	36.29	74	54	-27.32	-17.71	11	1.91
4341.44	-29.50	32.60	44.47	33.68	47.57	36.78	74	54	-26.43	-17.22	241	2.00
5028.25	-28.65	33.92	44.03	33.82	49.30	39.09	74	54	-24.70	-14.91	101	2.21

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 246 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT20_CH149 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	89.11	78.31	94.88	84.08	--	--	--	--	53	1.58
11490.00	-26.18	38.99	39.33	29.18	52.13	41.98	74	54	-21.87	-12.02	237	1.54
17235.00	-22.80	42.52	32.62	21.64	52.34	41.36	74	54	-21.66	-12.64	273	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	87.13	76.31	92.90	82.08	--	--	--	--	338	1.48
11490.00	-26.18	38.99	39.56	29.13	52.36	41.93	74	54	-21.64	-12.07	202	1.41
17235.00	-22.80	42.52	32.10	21.13	51.82	40.85	74	54	-22.18	-13.15	28	1.58

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 247 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH157 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2952.02	-31.00	30.22	45.56	35.36	44.77	34.57	74	54	-29.23	-19.43	329	1.91
3048.37	-30.91	30.46	45.55	35.16	45.10	34.71	74	54	-28.90	-19.29	264	1.89
3921.64	-29.93	32.35	44.19	33.33	46.60	35.74	74	54	-27.40	-18.26	6	1.62
4239.91	-29.61	32.60	43.91	33.47	46.90	36.46	74	54	-27.10	-17.54	57	1.53
4667.87	-29.11	33.03	44.20	33.65	48.13	37.58	74	54	-25.87	-16.42	281	1.40
5117.53	-28.64	33.99	44.36	33.48	49.71	38.83	74	54	-24.29	-15.17	342	1.26

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2314.07	-31.39	28.28	45.82	34.96	42.70	31.84	74	54	-31.30	-22.16	166	1.39
2738.24	-31.12	29.40	45.83	35.47	44.12	33.76	74	54	-29.88	-20.24	334	1.52
3071.51	-30.88	30.49	45.52	34.70	45.13	34.31	74	54	-28.87	-19.69	218	1.62
3937.38	-29.92	32.40	45.52	35.11	48.00	37.59	74	54	-26.00	-16.41	58	1.88
4599.49	-29.20	32.86	44.61	33.78	48.27	37.44	74	54	-25.73	-16.56	287	2.08
5072.13	-28.65	33.96	44.17	33.45	49.48	38.76	74	54	-24.52	-15.24	181	2.22

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 248 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT20_CH157 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	89.89	79.28	95.67	85.06	--	--	--	--	220	1.44
11570.00	-26.16	39.04	39.64	29.58	52.52	42.46	74	54	-21.48	-11.54	57	1.59
17355.00	-22.73	43.55	30.58	20.16	51.40	40.98	74	54	-22.60	-13.02	25	1.41

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	87.73	76.93	93.51	82.71	--	--	--	--	358	1.54
11570.00	-26.16	39.04	40.12	29.72	53.00	42.60	74	54	-21.00	-11.40	89	1.48
17355.00	-22.73	43.55	30.53	19.78	51.35	40.60	74	54	-22.65	-13.40	136	1.60

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 249 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH165 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2168.72	-31.51	28.10	45.70	35.42	42.29	32.01	74	54	-31.71	-21.99	137	2.15
2797.06	-31.09	29.63	46.35	35.46	44.89	34.00	74	54	-29.11	-20.00	19	1.96
3096.94	-30.84	30.52	45.56	35.40	45.23	35.07	74	54	-28.77	-18.93	174	1.87
4098.22	-29.76	32.60	44.03	33.11	46.87	35.95	74	54	-27.13	-18.05	329	1.57
4701.87	-29.06	33.12	44.91	34.57	48.97	38.63	74	54	-25.03	-15.37	23	1.39
5054.90	-28.65	33.94	44.39	33.54	49.68	38.83	74	54	-24.32	-15.17	94	1.28

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2738.44	-31.12	29.40	44.77	34.24	43.06	32.53	74	54	-30.94	-21.47	216	1.52
2969.03	-31.00	30.28	45.01	34.33	44.30	33.62	74	54	-29.70	-20.38	133	1.59
3241.85	-30.64	30.69	44.04	33.25	44.09	33.30	74	54	-29.91	-20.70	280	1.67
4237.16	-29.61	32.60	44.04	33.62	47.03	36.61	74	54	-26.97	-17.39	150	1.97
4796.99	-28.93	33.37	44.71	34.62	49.15	39.06	74	54	-24.85	-14.94	130	2.14
5102.37	-28.64	33.98	44.01	33.07	49.35	38.41	74	54	-24.65	-15.59	133	2.23

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 250 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH165 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	87.67	77.41	93.46	83.20	--	--	--	--	229	1.55
11650.00	-26.14	39.09	39.81	29.80	52.76	42.75	74	54	-21.24	-11.25	190	1.59
17475.00	-22.66	44.59	29.41	18.84	51.33	40.76	74	54	-22.67	-13.24	157	1.43

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	87.15	76.57	92.94	82.36	--	--	--	--	149	1.46
11650.00	-26.14	39.09	39.80	29.71	52.75	42.66	74	54	-21.25	-11.34	136	1.43
17475.00	-22.66	44.59	29.30	18.72	51.22	40.64	74	54	-22.78	-13.36	311	1.55

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 251 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH149 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2297.60	-31.41	28.26	45.93	35.56	42.78	32.41	74	54	-31.22	-21.59	41	2.11
2944.98	-31.01	30.19	44.92	34.91	44.10	34.09	74	54	-29.90	-19.91	211	1.92
3231.42	-30.65	30.68	44.59	34.48	44.62	34.51	74	54	-29.38	-19.49	166	1.83
3613.33	-30.18	31.36	44.32	33.62	45.50	34.80	74	54	-28.50	-19.20	134	1.72
4738.61	-29.01	33.22	44.14	33.61	48.35	37.82	74	54	-25.65	-16.18	223	1.38
5111.74	-28.64	33.99	43.35	32.93	48.70	38.28	74	54	-25.30	-15.72	51	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2637.29	-31.17	29.02	45.39	35.21	43.24	33.06	74	54	-30.76	-20.94	183	1.49
2932.35	-31.02	30.14	45.53	34.61	44.66	33.74	74	54	-29.34	-20.26	175	1.58
3548.07	-30.23	31.15	44.38	33.43	45.30	34.35	74	54	-28.70	-19.65	356	1.76
4249.98	-29.60	32.60	44.77	34.43	47.77	37.43	74	54	-26.23	-16.57	178	1.97
5146.24	-28.63	34.02	43.52	33.38	48.90	38.76	74	54	-25.10	-15.24	182	2.24
5406.12	-28.59	34.22	43.67	32.97	49.31	38.61	74	54	-24.69	-15.39	150	2.32

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 252 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT20_CH149 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	88.28	78.52	94.05	84.29	--	--	--	--	141	1.48
11490.00	-26.18	38.99	39.56	29.31	52.36	42.11	74	54	-21.64	-11.89	91	1.54
17235.00	-22.80	42.52	32.50	21.79	52.22	41.51	74	54	-21.78	-12.49	49	1.40

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5745.00 (F)	-28.53	34.30	88.11	78.10	93.88	83.87	--	--	--	--	330	1.56
11490.00	-26.18	38.99	39.90	29.41	52.70	42.21	74	54	-21.30	-11.79	209	1.56
17235.00	-22.80	42.52	32.25	21.30	51.97	41.02	74	54	-22.03	-12.98	164	1.59

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 253 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH157 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2273.54	-31.43	28.23	46.19	35.55	42.99	32.35	74	54	-31.01	-21.65	69	2.12
2759.06	-31.11	29.48	45.82	35.56	44.20	33.94	74	54	-29.80	-20.06	223	1.97
3561.27	-30.22	31.20	44.35	33.91	45.32	34.88	74	54	-28.68	-19.12	71	1.73
4237.95	-29.61	32.60	43.97	33.33	46.96	36.32	74	54	-27.04	-17.68	140	1.53
4922.14	-28.76	33.70	43.60	32.75	48.53	37.68	74	54	-25.47	-16.32	75	1.32
5219.33	-28.62	34.08	43.31	32.99	48.76	38.44	74	54	-25.24	-15.56	281	1.23

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1596.49	-32.32	26.53	48.62	38.03	42.83	32.24	74	54	-31.17	-21.76	169	1.18
3082.11	-30.86	30.50	45.58	34.99	45.21	34.62	74	54	-28.79	-19.38	52	1.62
3471.07	-30.31	30.97	44.35	33.51	45.00	34.16	74	54	-29.00	-19.84	239	1.74
4259.98	-29.59	32.60	44.94	34.85	47.95	37.86	74	54	-26.05	-16.14	312	1.98
4688.54	-29.08	33.09	44.06	33.36	48.07	37.37	74	54	-25.93	-16.63	210	2.11
5284.39	-28.61	34.13	43.64	32.67	49.16	38.19	74	54	-24.84	-15.81	100	2.29

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 254 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT20_CH157 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	88.40	79.22	94.18	85.00	--	--	--	--	159	1.57
11570.00	-26.16	39.04	39.81	29.67	52.69	42.55	74	54	-21.31	-11.45	89	1.51
17355.00	-22.73	43.55	30.77	20.37	51.59	41.19	74	54	-22.41	-12.81	128	1.52

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5785.00 (F)	-28.52	34.30	85.05	74.42	90.83	80.20	--	--	--	--	89	1.48
11570.00	-26.16	39.04	40.73	29.88	53.61	42.76	74	54	-20.39	-11.24	199	1.55
17355.00	-22.73	43.55	30.77	19.85	51.59	40.67	74	54	-22.41	-13.33	229	1.52

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 255 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT20_CH165 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2542.65	-31.22	28.66	45.78	35.70	43.22	33.14	74	54	-30.78	-20.86	311	2.04
3091.19	-30.85	30.51	45.84	35.12	45.50	34.78	74	54	-28.50	-19.22	285	1.87
3613.48	-30.18	31.36	44.37	33.54	45.55	34.72	74	54	-28.45	-19.28	175	1.72
4248.26	-29.60	32.60	44.17	33.79	47.17	36.79	74	54	-26.83	-17.21	140	1.53
5019.03	-28.66	33.92	44.23	34.21	49.49	39.47	74	54	-24.51	-14.53	10	1.29
5553.91	-28.56	34.30	43.89	33.89	49.63	39.63	74	54	-24.37	-14.37	281	1.13

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2492.31	-31.25	28.49	46.08	35.18	43.32	32.42	74	54	-30.68	-21.58	143	1.45
2974.02	-30.99	30.30	44.92	34.84	44.23	34.15	74	54	-29.77	-19.85	125	1.59
3658.97	-30.14	31.51	44.00	33.27	45.36	34.63	74	54	-28.64	-19.37	247	1.80
4229.54	-29.62	32.60	44.08	33.31	47.06	36.29	74	54	-26.94	-17.71	179	1.97
4717.68	-29.04	33.16	44.59	34.50	48.71	38.62	74	54	-25.29	-15.38	354	2.12
5106.13	-28.64	33.98	43.26	32.67	48.60	38.01	74	54	-25.40	-15.99	279	2.23

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 256 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT20_CH165 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	88.06	78.18	93.85	83.97	--	--	--	--	103	1.40
11650.00	-26.14	39.09	39.99	29.57	52.94	42.52	74	54	-21.06	-11.48	137	1.56
17475.00	-22.66	44.59	29.44	19.05	51.36	40.97	74	54	-22.64	-13.03	281	1.53

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5825.00 (F)	-28.51	34.30	88.22	78.15	94.01	83.94	--	--	--	--	339	1.42
11650.00	-26.14	39.09	40.24	29.62	53.19	42.57	74	54	-20.81	-11.43	316	1.44
17475.00	-22.66	44.59	29.87	19.12	51.79	41.04	74	54	-22.21	-12.96	352	1.40

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 257 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH151 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
3092.50	-30.85	30.51	45.95	35.66	45.61	35.32	74	54	-28.39	-18.68	263	1.87
3451.27	-30.34	30.94	45.04	34.25	45.64	34.85	74	54	-28.36	-19.15	290	1.76
3654.64	-30.15	31.49	45.19	34.67	46.54	36.02	74	54	-27.46	-17.98	338	1.70
4143.99	-29.72	32.60	45.83	35.41	48.71	38.29	74	54	-25.29	-15.71	153	1.56
4779.10	-28.96	33.33	44.25	33.79	48.62	38.16	74	54	-25.38	-15.84	252	1.37
5398.65	-28.59	34.22	44.17	33.98	49.80	39.61	74	54	-24.20	-14.39	267	1.18

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2496.19	-31.24	28.50	45.87	35.65	43.12	32.90	74	54	-30.88	-21.10	264	1.45
3252.34	-30.62	30.70	45.74	34.98	45.82	35.06	74	54	-28.18	-18.94	341	1.68
3650.02	-30.15	31.48	46.49	36.10	47.82	37.43	74	54	-26.18	-16.57	186	1.80
4283.76	-29.56	32.60	44.98	34.93	48.02	37.97	74	54	-25.98	-16.03	106	1.99
4704.93	-29.06	33.13	44.67	34.26	48.74	38.33	74	54	-25.26	-15.67	306	2.11
4971.29	-28.70	33.82	44.65	34.46	49.78	39.59	74	54	-24.22	-14.41	47	2.19

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 258 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT40_CH151 (SISO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.79	77.02	93.57	82.80	--	--	--	--	237	1.52
11510.00	-26.18	39.01	40.79	29.83	53.62	42.66	74	54	-20.38	-11.34	282	1.55
17265.00	-22.78	42.78	31.62	21.19	51.62	41.19	74	54	-22.38	-12.81	31	1.60

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.35	77.16	93.13	82.94	--	--	--	--	41	1.51
11510.00	-26.18	39.01	40.92	30.10	53.75	42.93	74	54	-20.25	-11.07	142	1.54
17265.00	-22.78	42.78	31.48	21.21	51.48	41.21	74	54	-22.52	-12.79	291	1.41

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 259 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH159 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1814.56	-31.96	27.27	47.34	36.57	42.65	31.88	74	54	-31.35	-22.12	137	2.26
2142.98	-31.53	28.07	47.75	37.66	44.29	34.20	74	54	-29.71	-19.80	31	2.16
2851.21	-31.06	29.83	48.16	37.26	46.94	36.04	74	54	-27.06	-17.96	78	1.94
3764.04	-30.06	31.84	44.90	34.90	46.69	36.69	74	54	-27.31	-17.31	264	1.67
4739.75	-29.01	33.22	44.81	33.85	49.02	38.06	74	54	-24.98	-15.94	81	1.38
5048.72	-28.65	33.94	44.45	34.24	49.74	39.53	74	54	-24.26	-14.47	126	1.29

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2501.34	-31.24	28.50	45.91	35.42	43.17	32.68	74	54	-30.83	-21.32	283	1.45
2875.14	-31.04	29.93	46.73	36.09	45.61	34.97	74	54	-28.39	-19.03	248	1.56
3492.58	-30.28	30.99	45.34	34.64	46.05	35.35	74	54	-27.95	-18.65	128	1.75
4218.24	-29.63	32.60	44.09	33.93	47.06	36.90	74	54	-26.94	-17.10	353	1.97
4647.67	-29.13	32.98	44.94	34.29	48.79	38.14	74	54	-25.21	-15.86	104	2.09
5081.96	-28.65	33.96	44.12	33.51	49.44	38.83	74	54	-24.56	-15.17	221	2.22

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 260 of 420
Date: Dec. 28, 2017

Temperature: 23 °C Humidity: 70 %RH
Frequency Range: 1 GHz – 25 GHz Tested Mode: 5.8G
802.11ac - HT40_CH159
(SISO) (Fundamental and Harmonics)
Detector: PK. and AV. IF Bandwidth: 1 MHz
Tested By: Richard Lin Tested Date: Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	87.66	78.24	93.44	84.02	--	--	--	--	193	1.53
11590.00	-26.16	39.05	40.77	30.25	53.67	43.15	74	54	-20.33	-10.85	260	1.42
17385.00	-22.71	43.81	29.97	19.64	51.07	40.74	74	54	-22.93	-13.26	60	1.55

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	86.86	76.54	92.64	82.32	--	--	--	--	299	1.40
11590.00	-26.16	39.05	40.25	30.20	53.15	43.10	74	54	-20.85	-10.90	291	1.46
17385.00	-22.71	43.81	30.47	19.77	51.57	40.87	74	54	-22.43	-13.13	129	1.59

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 261 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH151 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2756.40	-31.11	29.47	45.37	34.65	43.74	33.02	74	54	-30.26	-20.98	282	1.97
3294.85	-30.56	30.75	45.42	35.32	45.61	35.51	74	54	-28.39	-18.49	253	1.81
3711.66	-30.10	31.68	44.09	34.07	45.66	35.64	74	54	-28.34	-18.36	94	1.69
4233.94	-29.62	32.60	44.76	33.92	47.74	36.90	74	54	-26.26	-17.10	71	1.53
4906.02	-28.79	33.66	44.62	34.32	49.49	39.19	74	54	-24.51	-14.81	347	1.33
5468.31	-28.58	34.27	44.10	33.83	49.80	39.53	74	54	-24.20	-14.47	19	1.16

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1844.03	-31.91	27.37	45.96	35.86	41.42	31.32	74	54	-32.58	-22.68	295	1.25
2549.97	-31.21	28.69	45.86	35.52	43.33	32.99	74	54	-30.67	-21.01	267	1.46
3021.56	-30.95	30.43	45.65	34.94	45.13	34.42	74	54	-28.87	-19.58	292	1.61
3617.80	-30.18	31.37	45.04	34.57	46.24	35.77	74	54	-27.76	-18.23	89	1.79
4662.12	-29.11	33.02	44.91	34.08	48.82	37.99	74	54	-25.18	-16.01	312	2.10
5144.57	-28.63	34.02	44.06	33.33	49.44	38.71	74	54	-24.56	-15.29	294	2.24

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 262 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT40_CH151 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.53	77.39	93.31	83.17	--	--	--	--	165	1.44
11510.00	-26.18	39.01	40.21	29.29	53.04	42.12	74	54	-20.96	-11.88	56	1.49
17265.00	-22.78	42.78	31.53	21.35	51.53	41.35	74	54	-22.47	-12.65	118	1.42

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5755.00 (F)	-28.52	34.30	87.51	77.23	93.29	83.01	--	--	--	--	229	1.44
11510.00	-26.18	39.01	40.50	29.66	53.33	42.49	74	54	-20.67	-11.51	54	1.51
17265.00	-22.78	42.78	31.21	21.17	51.21	41.17	74	54	-22.79	-12.83	82	1.43

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 263 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT40_CH159 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1931.85	-31.76	27.67	47.66	37.61	43.56	33.51	74	54	-30.44	-20.49	296	2.22
2143.03	-31.53	28.07	47.42	37.23	43.96	33.77	74	54	-30.04	-20.23	95	2.16
2730.64	-31.12	29.37	45.71	35.00	43.96	33.25	74	54	-30.04	-20.75	337	1.98
3796.15	-30.03	31.95	43.86	33.54	45.77	35.45	74	54	-28.23	-18.55	58	1.66
4256.82	-29.59	32.60	44.90	33.99	47.91	37.00	74	54	-26.09	-17.00	186	1.52
4792.39	-28.94	33.36	44.84	34.12	49.26	38.54	74	54	-24.74	-15.46	102	1.36

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2864.25	-31.05	29.88	45.86	35.54	44.69	34.37	74	54	-29.31	-19.63	198	1.56
3287.09	-30.57	30.74	45.03	34.83	45.20	35.00	74	54	-28.80	-19.00	85	1.69
3602.43	-30.19	31.33	45.04	34.66	46.18	35.80	74	54	-27.82	-18.20	242	1.78
4333.18	-29.51	32.60	45.15	34.20	48.24	37.29	74	54	-25.76	-16.71	65	2.00
4701.56	-29.06	33.12	45.67	35.00	49.73	39.06	74	54	-24.27	-14.94	192	2.11
5078.98	-28.65	33.96	43.94	33.83	49.26	39.15	74	54	-24.74	-14.85	100	2.22

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 264 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT40_CH159 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	86.59	76.07	92.37	81.85	--	--	--	--	300	1.51
11590.00	-26.16	39.05	40.48	29.92	53.38	42.82	74	54	-20.62	-11.18	102	1.55
17385.00	-22.71	43.81	30.42	19.75	51.52	40.85	74	54	-22.48	-13.15	223	1.57

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5795.00 (F)	-28.52	34.30	88.36	77.77	94.14	83.55	--	--	--	--	203	1.58
11590.00	-26.16	39.05	40.52	30.30	53.42	43.20	74	54	-20.58	-10.80	53	1.45
17385.00	-22.71	43.81	30.17	19.82	51.27	40.92	74	54	-22.73	-13.08	44	1.60

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORTReference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 265 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT80_CH155 (SISO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2270.17	-31.43	28.22	45.93	35.57	42.73	32.37	74	54	-31.27	-21.63	111	2.12
2491.34	-31.25	28.49	46.08	36.00	43.32	33.24	74	54	-30.68	-20.76	359	2.05
2869.05	-31.05	29.90	45.96	35.26	44.81	34.11	74	54	-29.19	-19.89	76	1.94
3607.77	-30.18	31.34	44.79	34.05	45.95	35.21	74	54	-28.05	-18.79	220	1.72
4058.26	-29.81	32.60	44.61	33.94	47.40	36.73	74	54	-26.60	-17.27	238	1.58
5114.39	-28.64	33.99	43.59	33.35	48.94	38.70	74	54	-25.06	-15.30	344	1.27

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2409.55	-31.31	28.39	46.83	36.47	43.91	33.55	74	54	-30.09	-20.45	167	1.42
3097.78	-30.84	30.52	45.30	34.35	44.97	34.02	74	54	-29.03	-19.98	104	1.63
3546.95	-30.23	31.15	44.43	34.24	45.34	35.15	74	54	-28.66	-18.85	323	1.76
4277.63	-29.57	32.60	44.44	34.24	47.47	37.27	74	54	-26.53	-16.73	212	1.98
5103.41	-28.64	33.98	43.90	33.18	49.24	38.52	74	54	-24.76	-15.48	51	2.23
5632.80	-28.55	34.30	44.29	33.68	50.04	39.43	74	54	-23.96	-14.57	144	2.39

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 266 of 420
Date: Dec. 28, 2017

Temperature: 23 °C Humidity: 70 %RH
5.8G
Frequency Range: 1 GHz – 25 GHz Tested Mode: 802.11ac - HT80_CH155 (SISO) (Fundamental and Harmonics)
Detector: PK. and AV. IF Bandwidth: 1 MHz
Tested By: Richard Lin Tested Date: Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5775.00 (F)	-28.52	34.30	87.83	76.98	93.61	82.76	--	--	--	--	122	1.40
11550.00	-26.17	39.03	40.68	29.81	53.54	42.67	74	54	-20.46	-11.33	356	1.52
17325.00	-22.75	43.30	30.59	20.29	51.14	40.84	74	54	-22.86	-13.16	230	1.51

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5775.00 (F)	-28.52	34.30	86.74	76.32	92.52	82.10	--	--	--	--	329	1.53
11550.00	-26.17	39.03	39.75	29.54	52.61	42.40	74	54	-21.39	-11.60	210	1.47
17325.00	-22.75	43.30	30.53	20.30	51.08	40.85	74	54	-22.92	-13.15	280	1.51

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 267 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
			5.8G
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	802.11ac - HT80_CH155 (MIMO)
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2743.06	-31.11	29.42	46.13	35.95	44.44	34.26	74	54	-29.56	-19.74	228	1.98
3291.34	-30.57	30.75	45.34	34.70	45.52	34.88	74	54	-28.48	-19.12	358	1.81
3874.19	-29.97	32.20	44.22	33.58	46.45	35.81	74	54	-27.55	-18.19	275	1.64
4279.75	-29.57	32.60	44.69	34.04	47.72	37.07	74	54	-26.28	-16.93	113	1.52
4892.67	-28.80	33.62	44.62	33.81	49.43	38.62	74	54	-24.57	-15.38	65	1.33
5255.01	-28.61	34.10	43.67	32.75	49.16	38.24	74	54	-24.84	-15.76	173	1.22

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2392.74	-31.33	28.37	45.94	35.40	42.98	32.44	74	54	-31.02	-21.56	192	1.42
2964.60	-31.00	30.26	45.61	34.85	44.87	34.11	74	54	-29.13	-19.89	132	1.59
3914.22	-29.94	32.32	43.96	33.87	46.35	36.26	74	54	-27.65	-17.74	64	1.87
4271.54	-29.58	32.60	44.29	34.23	47.31	37.25	74	54	-26.69	-16.75	87	1.98
4738.05	-29.01	33.22	44.67	34.43	48.88	38.64	74	54	-25.12	-15.36	76	2.12
5113.62	-28.64	33.99	43.76	32.93	49.11	38.28	74	54	-24.89	-15.72	323	2.23

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.: Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F): The field strength of fundamental frequency.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 268 of 420
Date: Dec. 28, 2017

Temperature:	23 °C	Humidity:	70 %RH
Frequency Range:	1 GHz – 25 GHz	Tested Mode:	5.8G 802.11ac - HT80_CH155 (MIMO) (Fundamental and Harmonics)
Detector:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	Richard Lin	Tested Date:	Nov. 24, 2017

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5775.00 (F)	-28.52	34.30	87.96	78.57	93.74	84.35	--	--	--	--	53	1.54
11550.00	-26.17	39.03	40.39	29.48	53.25	42.34	74	54	-20.75	-11.66	230	1.48
17325.00	-22.75	43.30	31.11	20.35	51.66	40.90	74	54	-22.34	-13.10	184	1.59

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
5775.00 (F)	-28.52	34.30	87.18	76.96	92.96	82.74	--	--	--	--	356	1.45
11550.00	-26.17	39.03	40.10	29.59	52.96	42.45	74	54	-21.04	-11.55	100	1.48
17325.00	-22.75	43.30	30.24	20.18	50.79	40.73	74	54	-23.21	-13.27	284	1.50

NOTE:

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

 Spectrum Research & Testing Lab., Inc. No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	TEST REPORT	Reference No.: A17103001 Report No.: FCCA17103001-03 FCC ID : AHL-ALMOND3S Page: 269 of 420 Date: Dec. 28, 2017
--	----------------------	---

4.3 BANDWIDTH TEST

4.3.1 LIMIT

FCC Part15, Subpart E Section 15.407 (e). Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

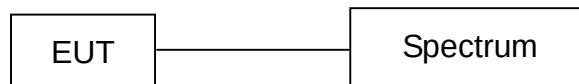
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER (INCLUDE SPECTRUM ANALYZER)	9 KHz ~ 6 GHz	ROHDE & SCHWARZ	ESL /100176	MAY 21, 2018 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.3.4 TEST PROCEDURE

The EUT was operated in continuous transmission mode or any specific channel.
 Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 270 of 420
Date: Dec. 28, 2017

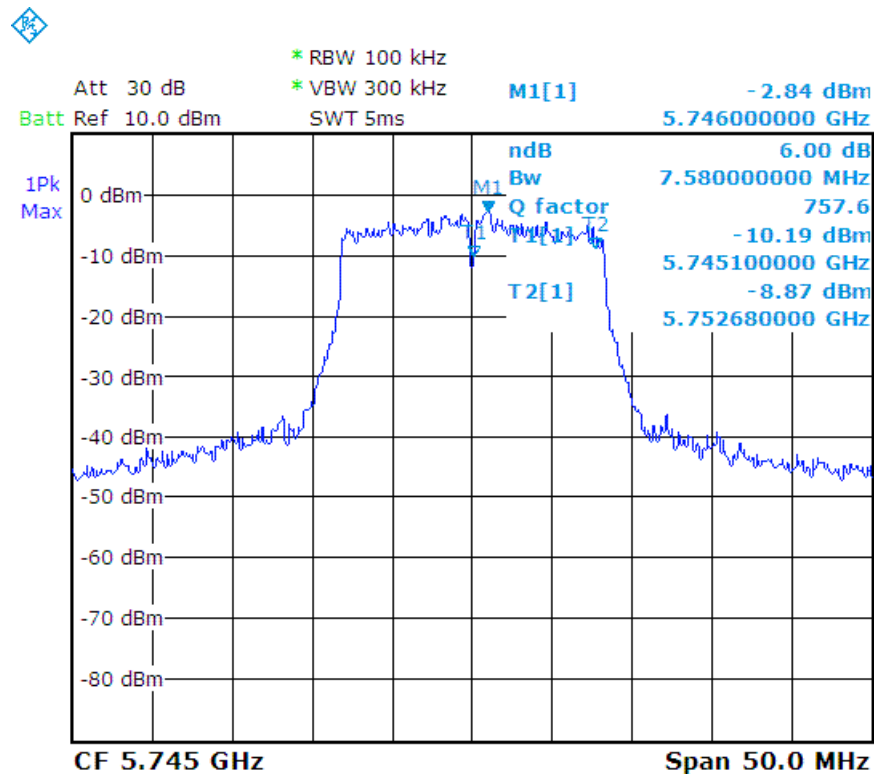
4.3.6 TEST RESULT

6dB :

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11a
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH149	5745	7.58	0.5
CH157	5785	8.18	0.5
CH165	5825	7.88	0.5

a_CH149 :





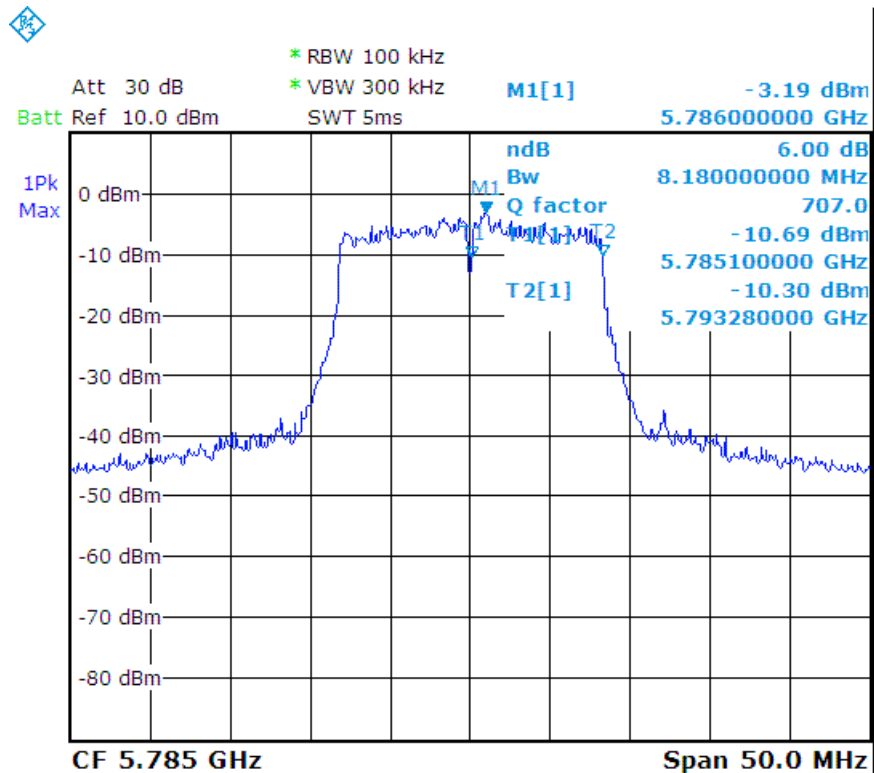
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

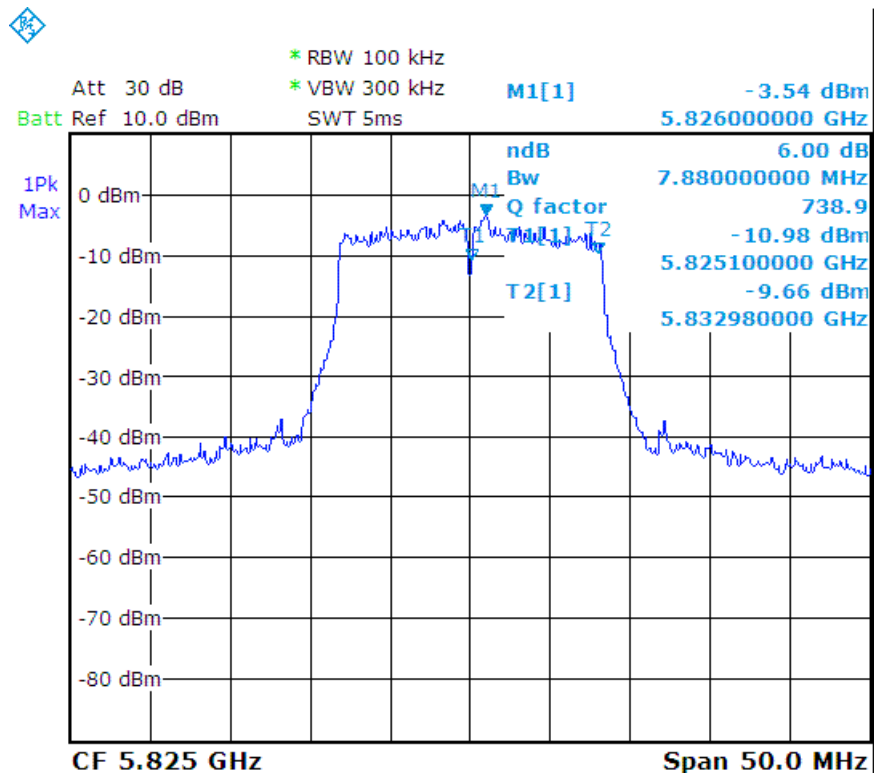
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 271 of 420
Date: Dec. 28, 2017

a_CH157 :



a_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

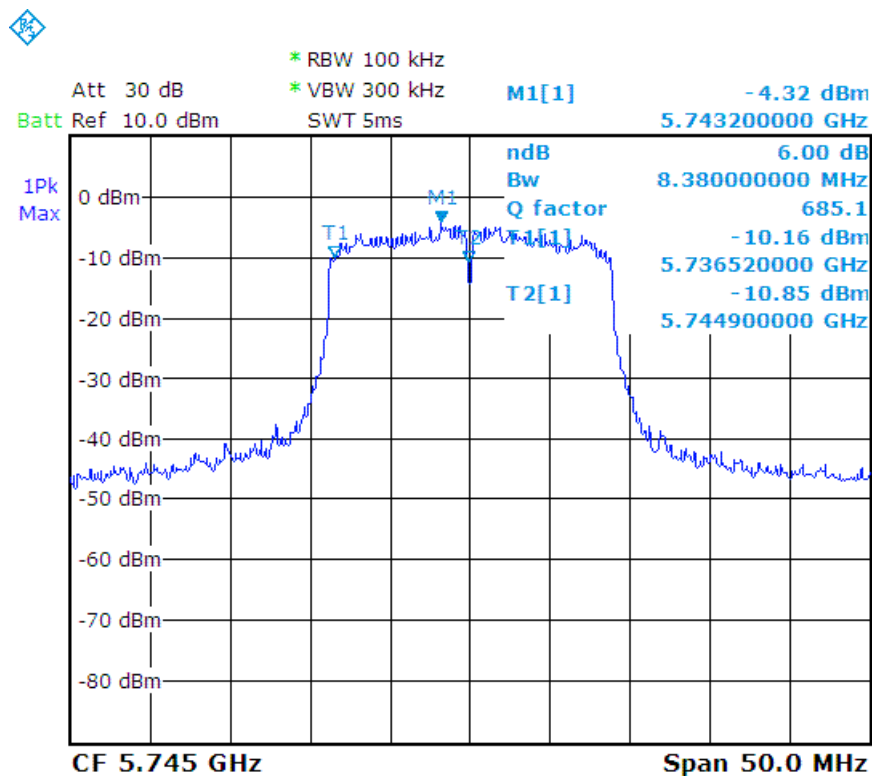
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 272 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11n - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH149	5745	8.38	0.5
CH157	5785	8.48	0.5
CH165	5825	8.48	0.5

n - HT20_CH149 :





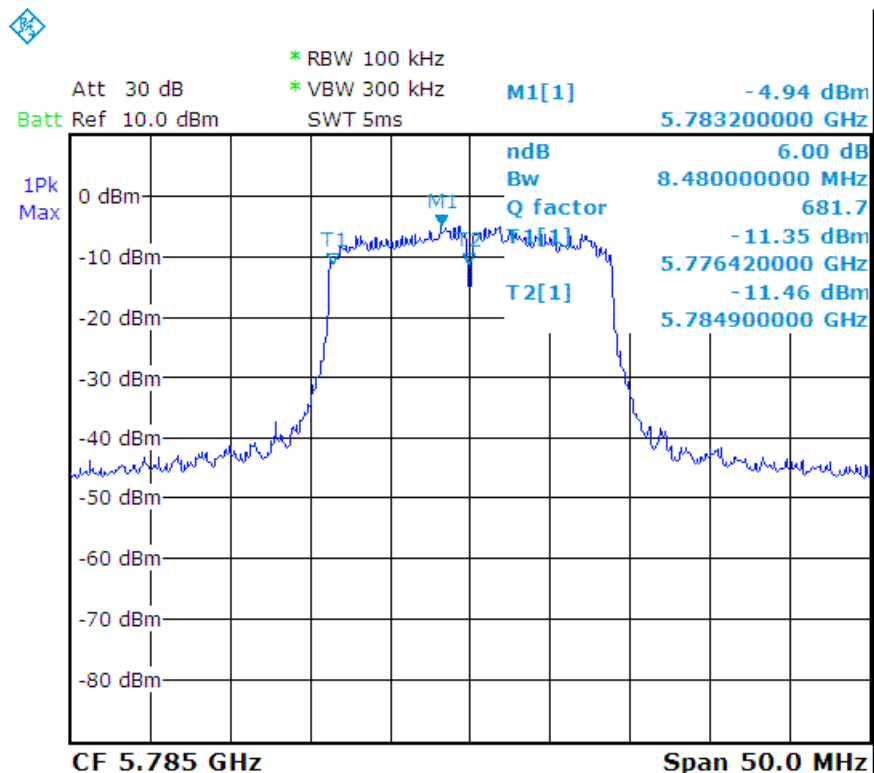
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

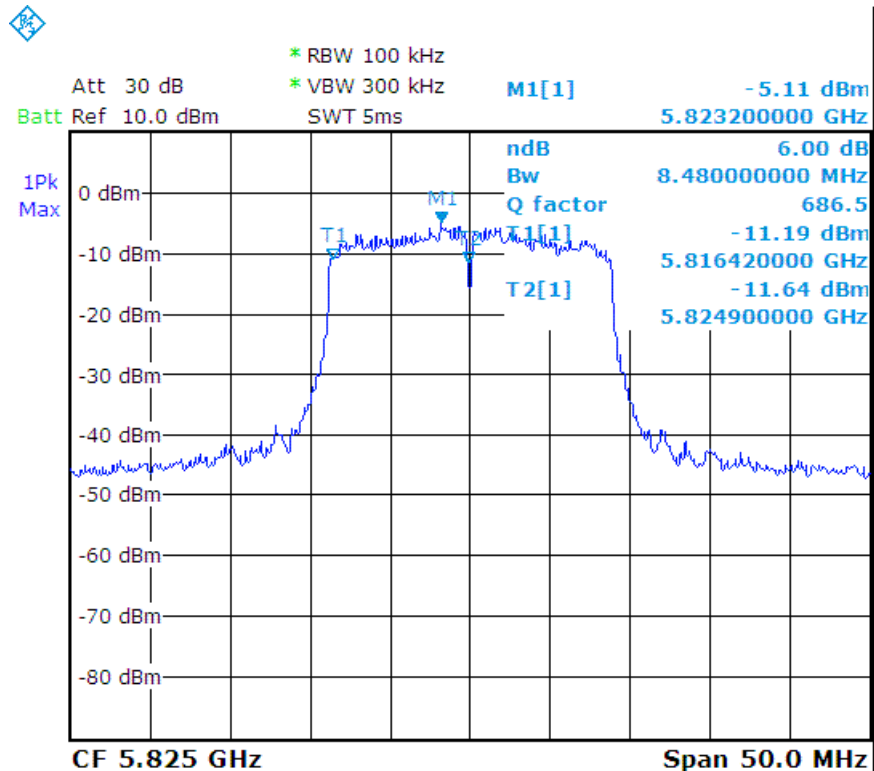
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 273 of 420
Date: Dec. 28, 2017

n - HT20_CH157 :



n - HT20_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

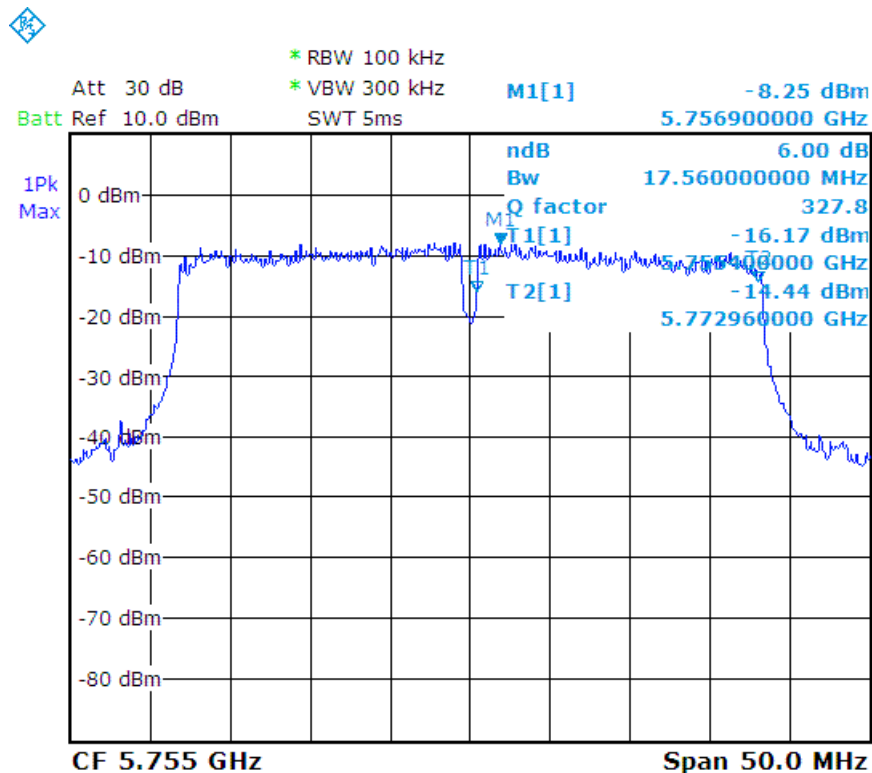
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 274 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11n - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH151	5755	17.56	0.5
CH159	5795	17.86	0.5

n - HT40_CH151 :





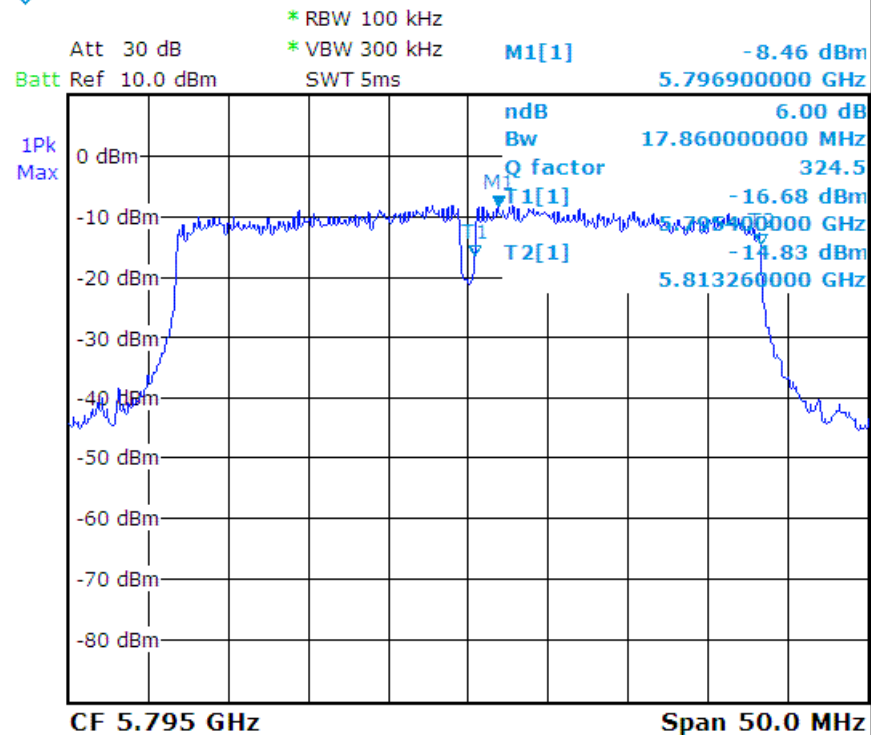
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 275 of 420
Date: Dec. 28, 2017

n - HT40_CH159 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

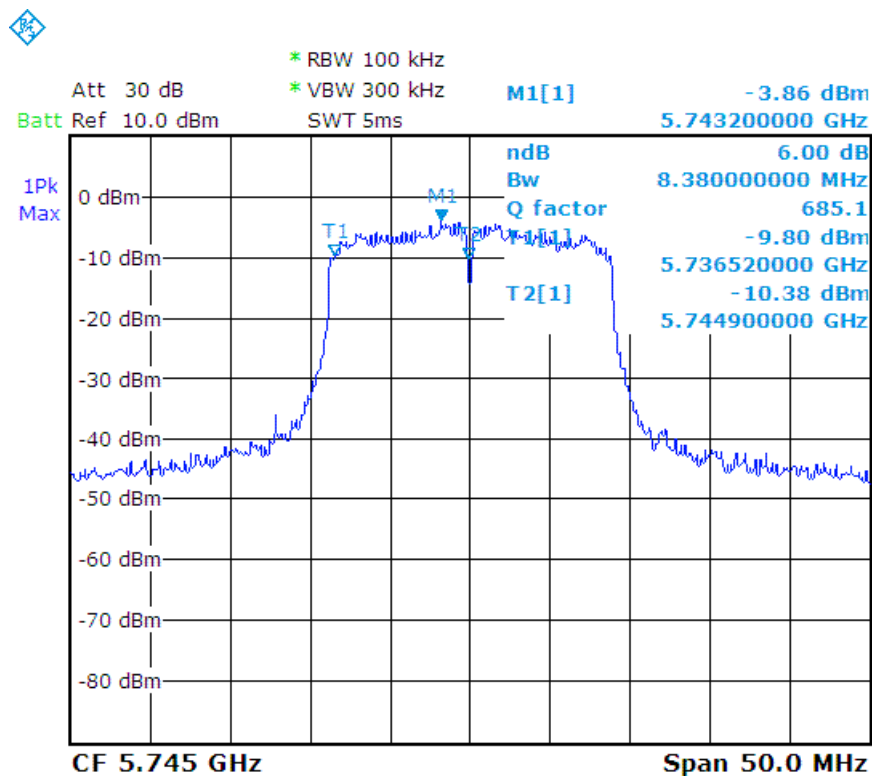
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 276 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH149	5745	8.38	0.5
CH157	5785	8.48	0.5
CH165	5825	8.48	0.5

ac - HT20_CH149 :





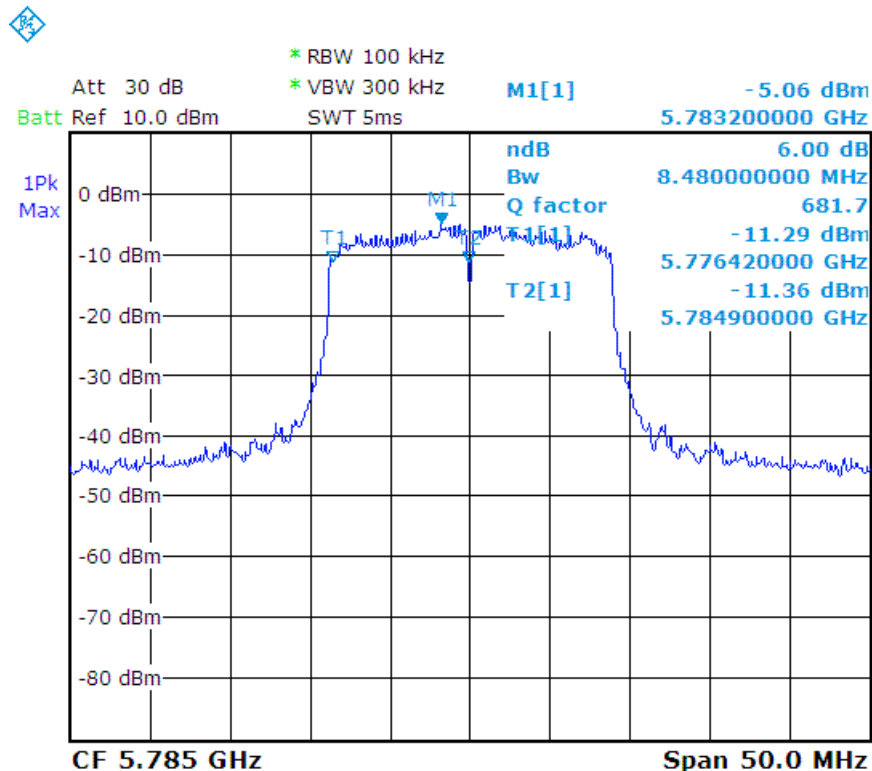
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

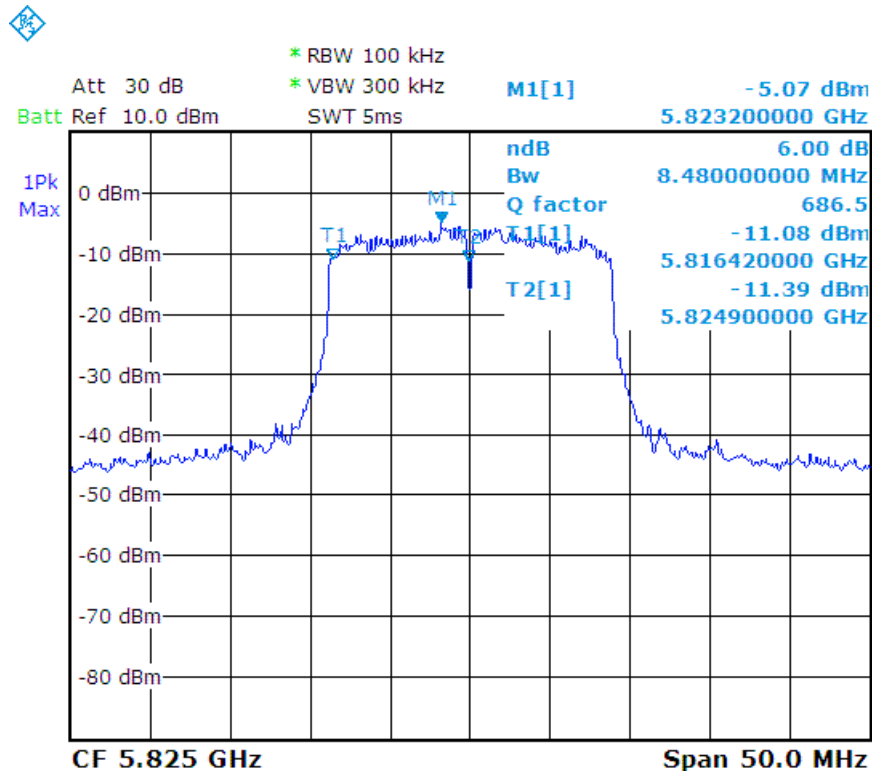
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 277 of 420
Date: Dec. 28, 2017

ac - HT20_CH157 :



ac - HT20_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

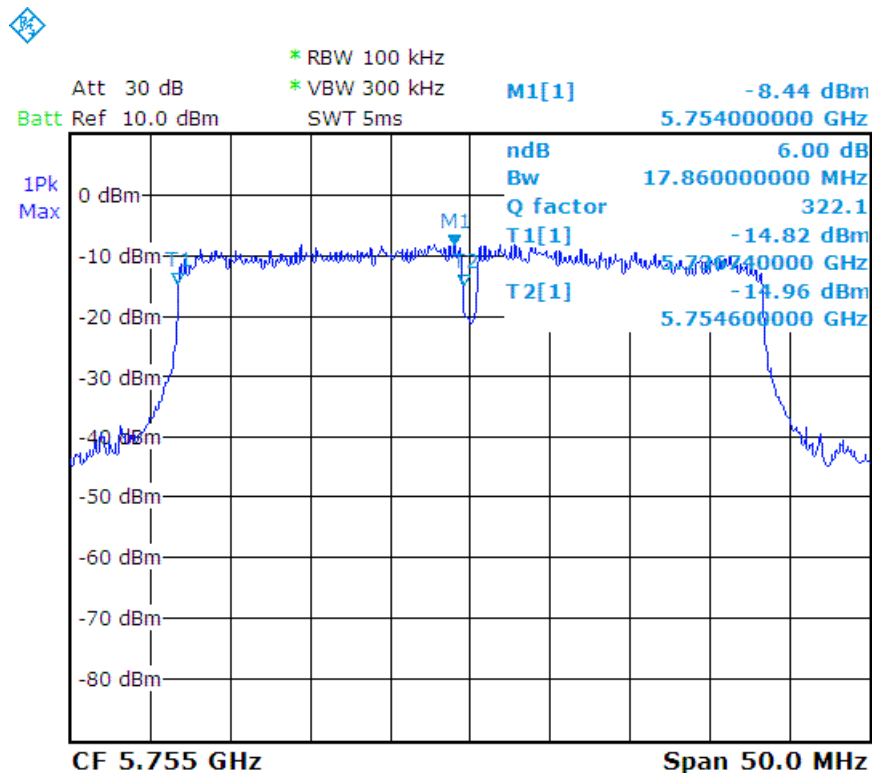
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 278 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH151	5755	17.86	0.5
CH159	5795	17.56	0.5

ac - HT40_CH151 :





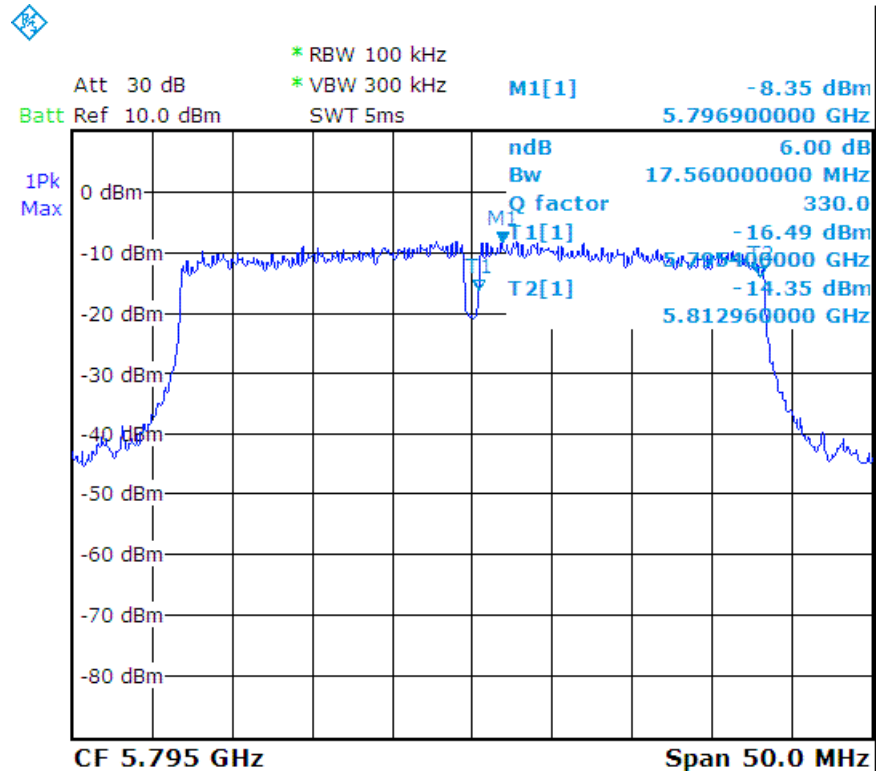
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 279 of 420
Date: Dec. 28, 2017

ac - HT40_CH159 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

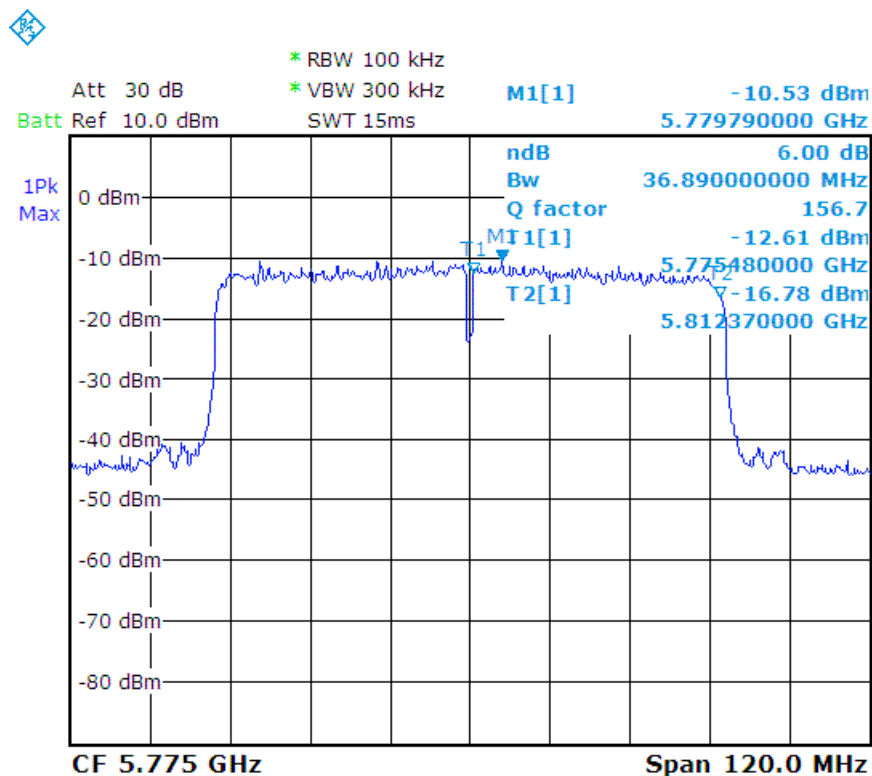
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 280 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT80
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH155	5775	36.89	0.5

ac - HT80_CH155 :



**Spectrum Research & Testing Lab., Inc.**

No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

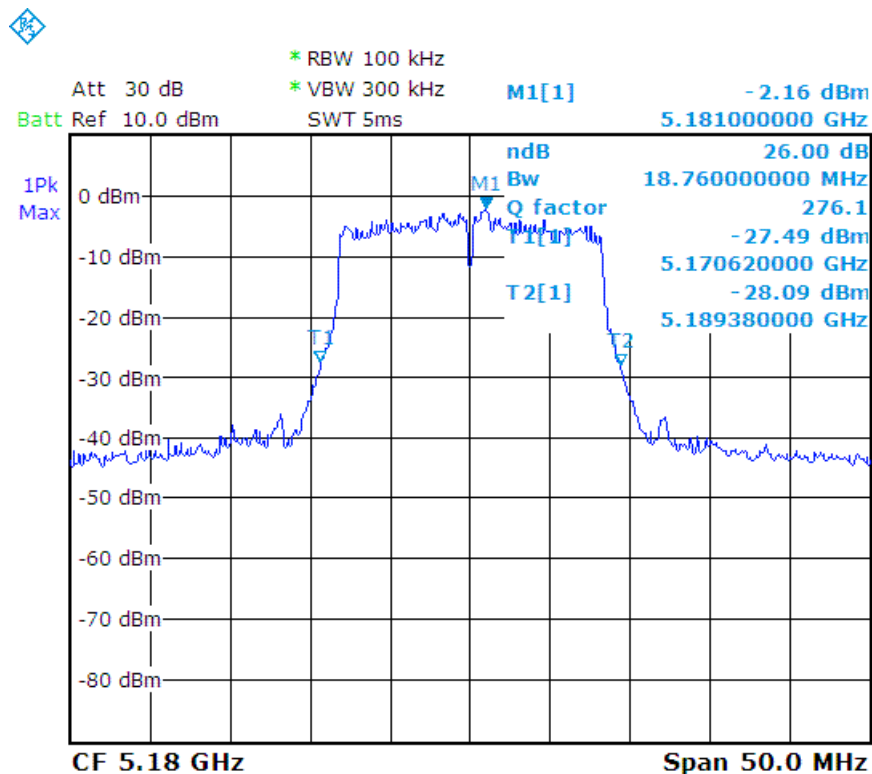
Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 281 of 420
Date: Dec. 28, 2017

26dB Bandwidth :

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11a
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH36	5180	18.76
CH40	5200	18.76
CH48	5240	18.76

a_CH36 :





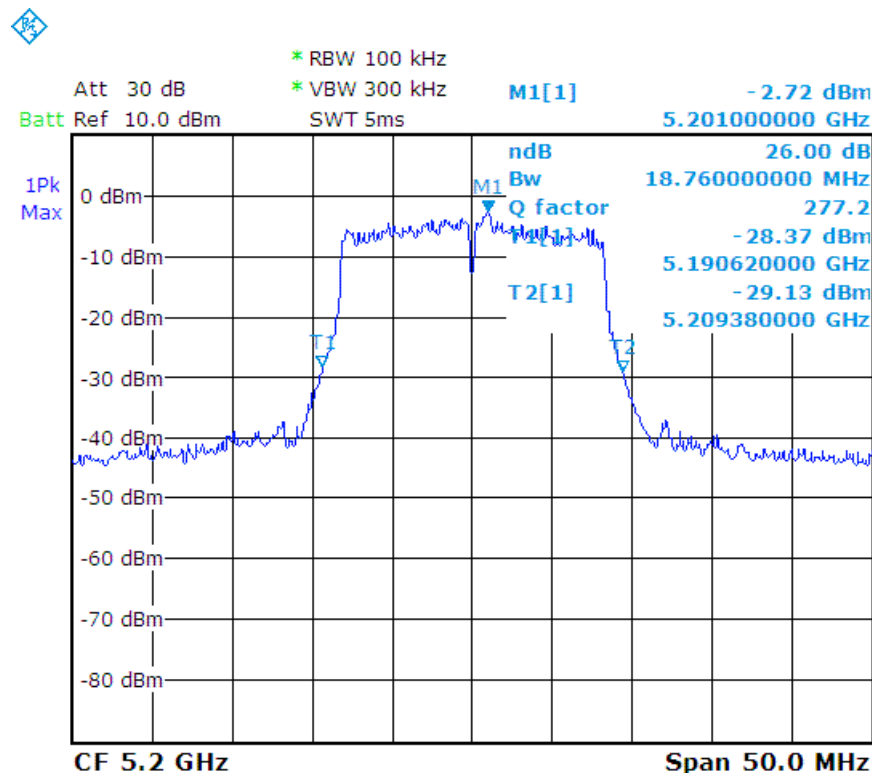
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

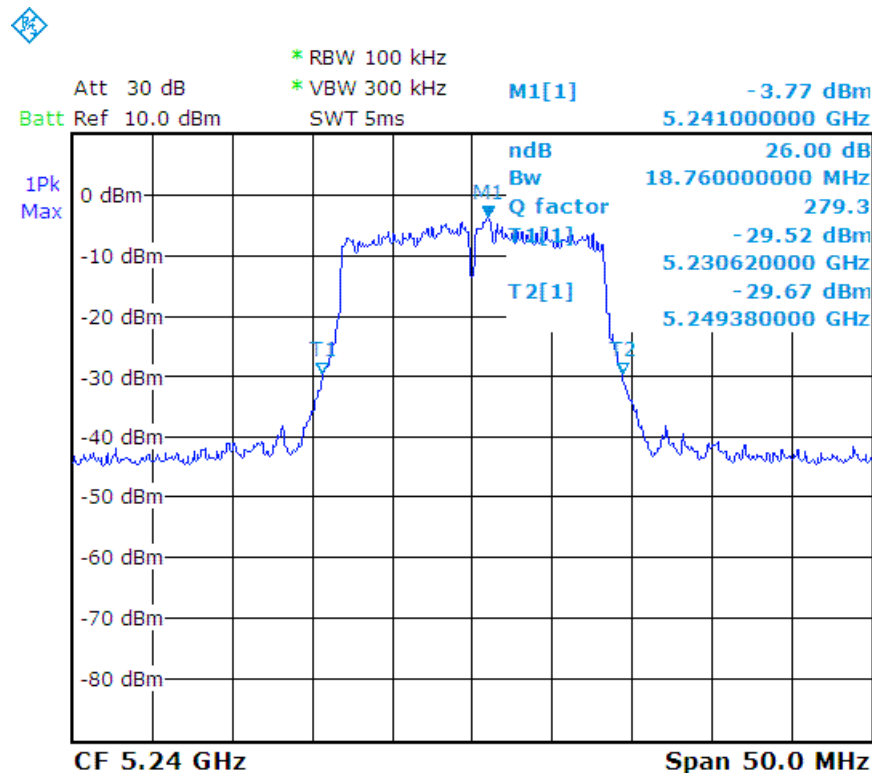
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 282 of 420
Date: Dec. 28, 2017

a_CH40 :



a_CH48 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

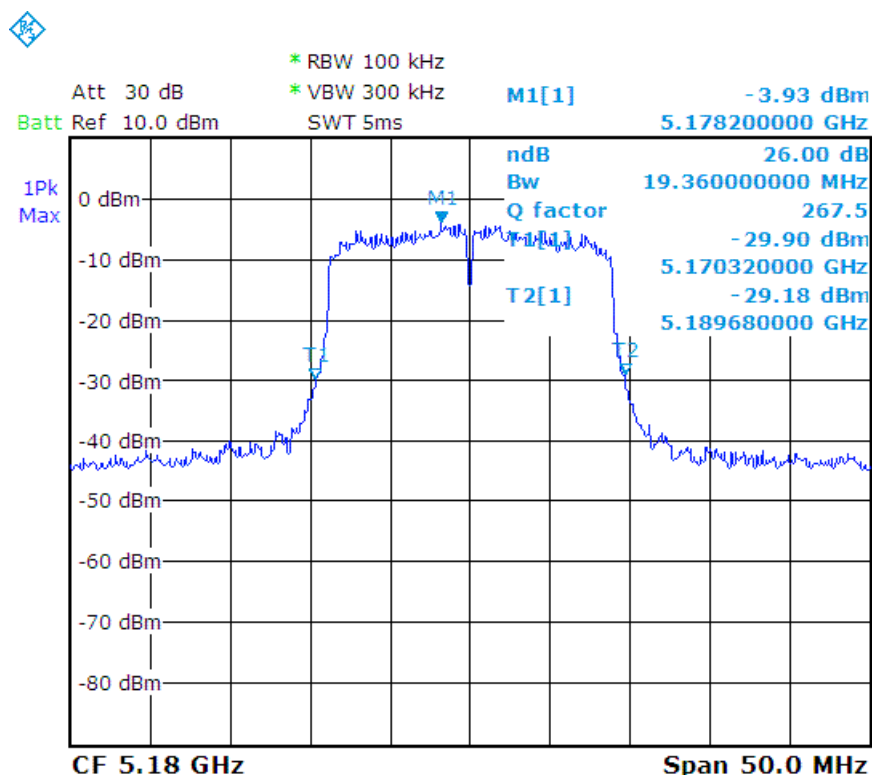
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 283 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11n - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH36	5180	19.36
CH40	5200	19.36
CH48	5240	19.46

n - HT20_CH36 :





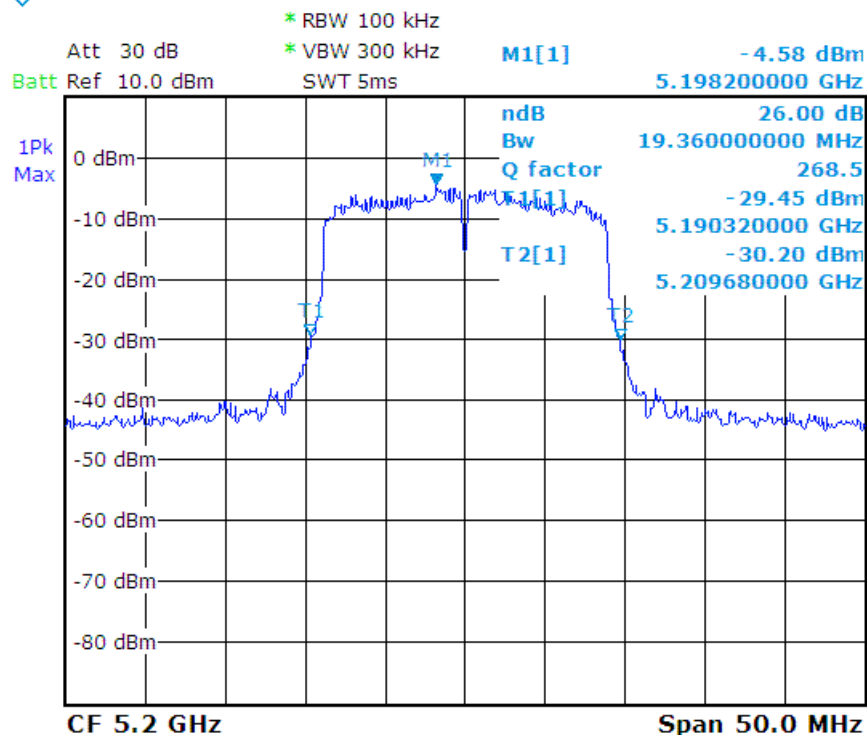
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

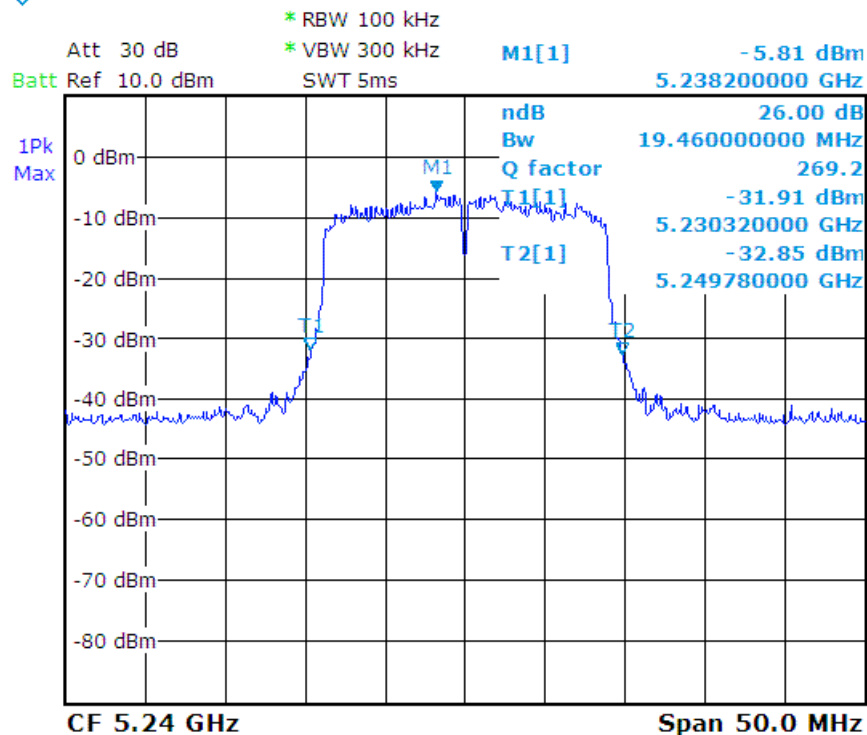
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 284 of 420
Date: Dec. 28, 2017

n - HT20_CH40 :



n - HT20_CH48 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

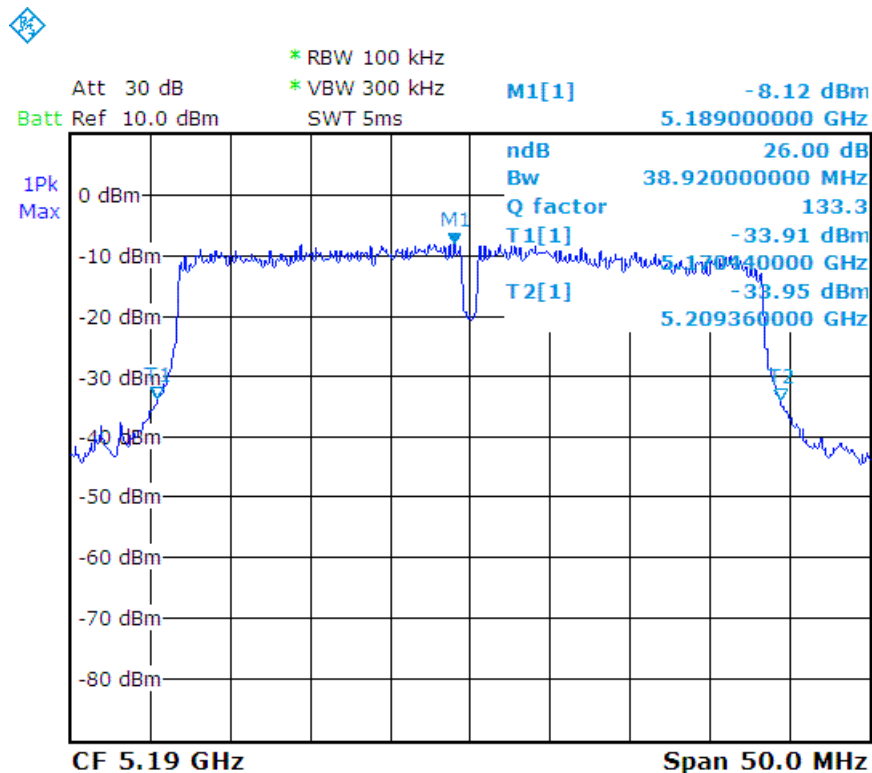
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 285 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11n - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH38	5190	38.92
CH46	5230	39.12

n - HT40_CH38 :





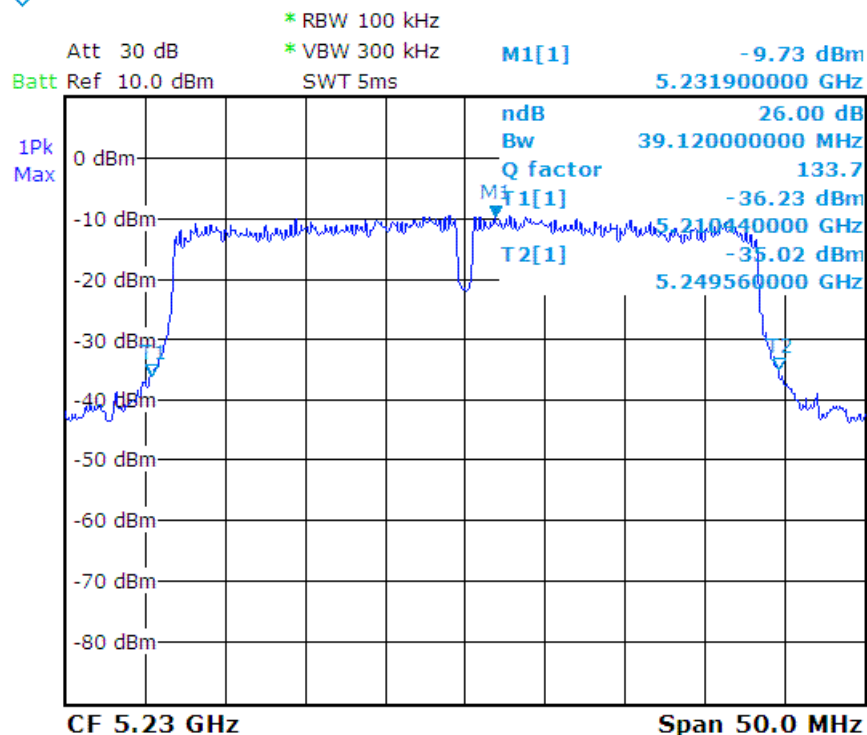
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 286 of 420
Date: Dec. 28, 2017

n - HT40_CH46 :





Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

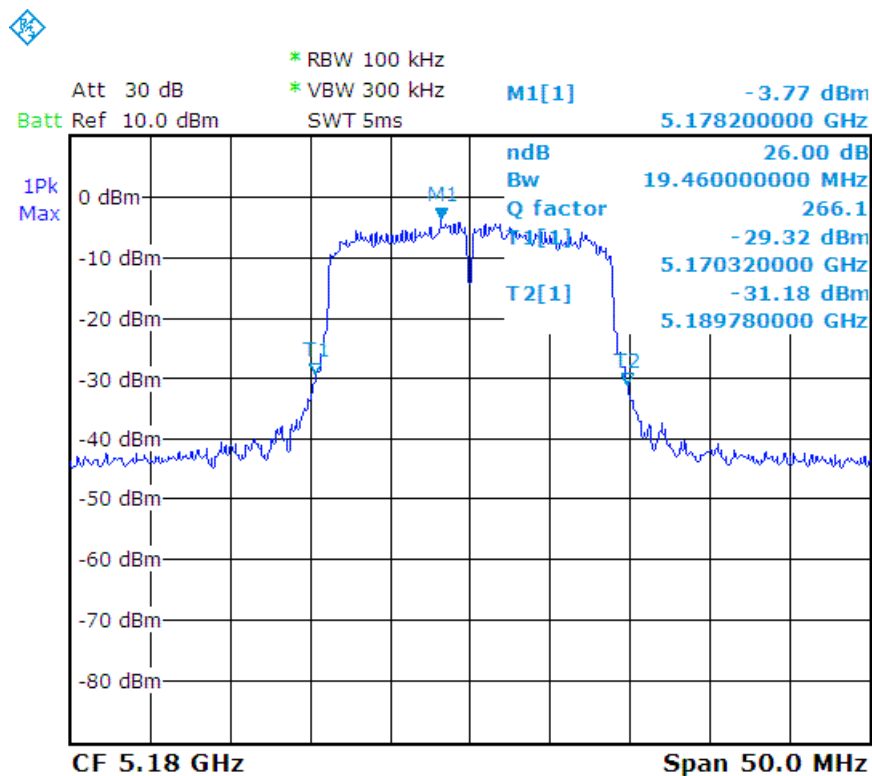
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 287 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11ac - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH36	5180	19.46
CH40	5200	19.36
CH48	5240	19.36

ac - HT20_CH36 :





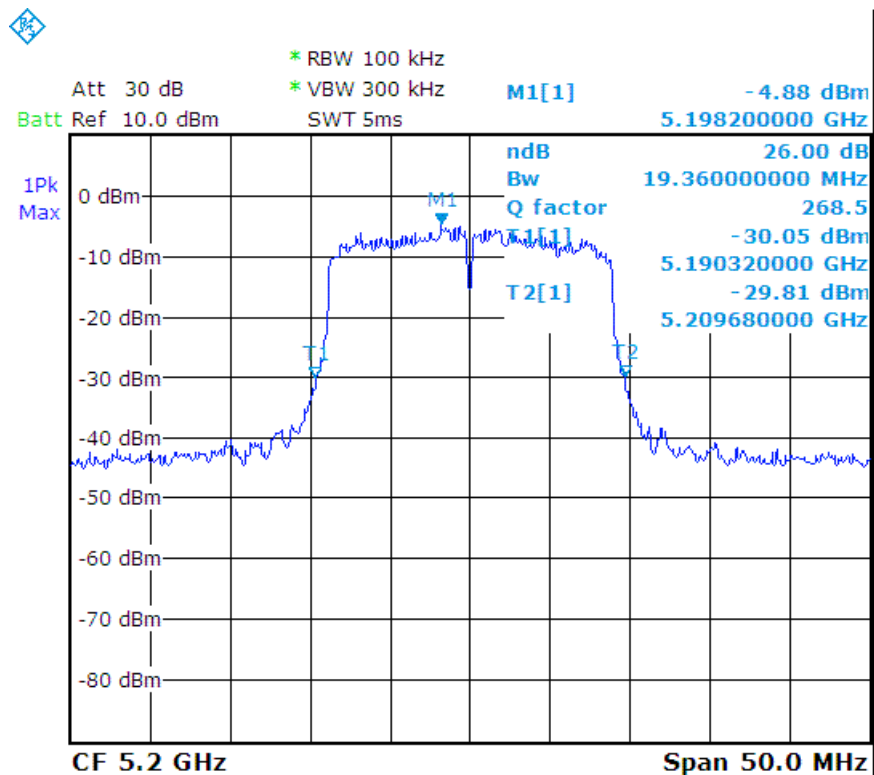
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

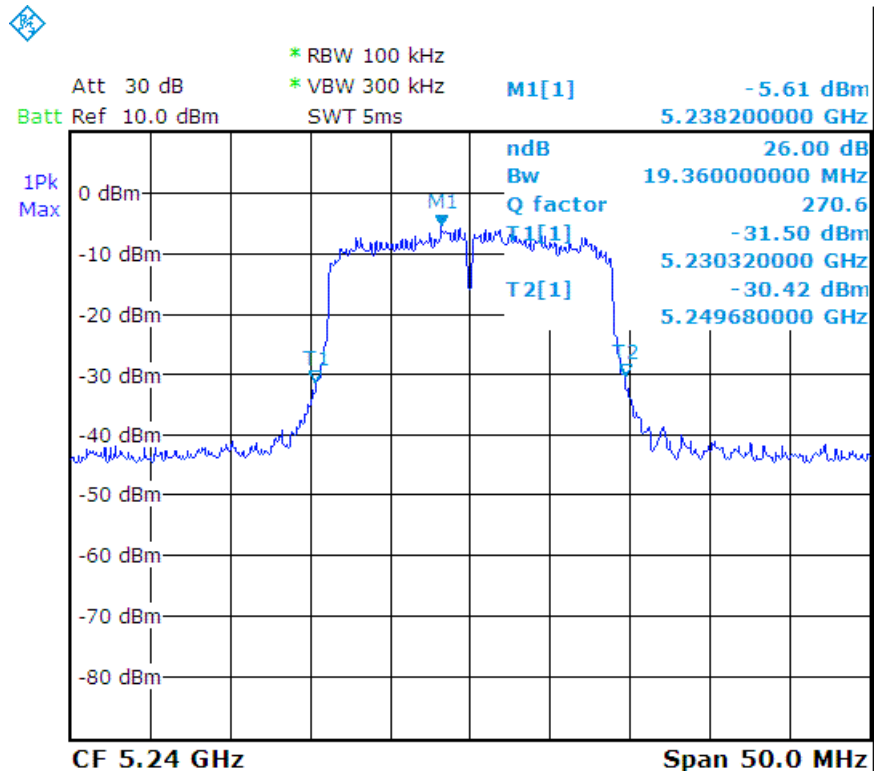
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 288 of 420
Date: Dec. 28, 2017

ac - HT20_CH40 :



ac - HT20_CH48 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

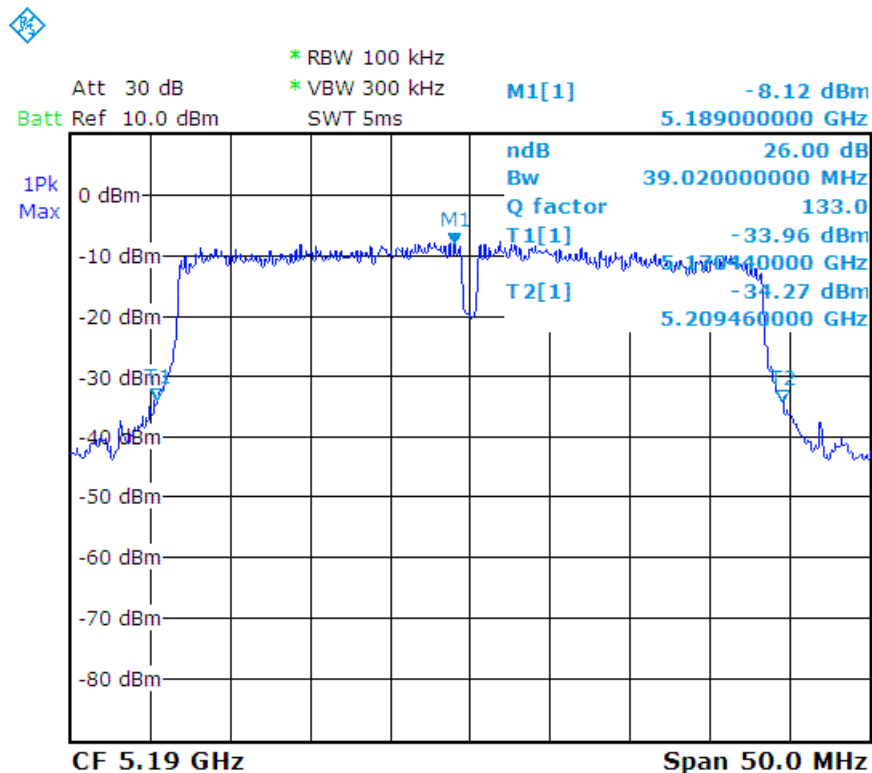
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 289 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11ac - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH38	5190	39.02
CH46	5230	39.32

ac - HT40_CH38 :





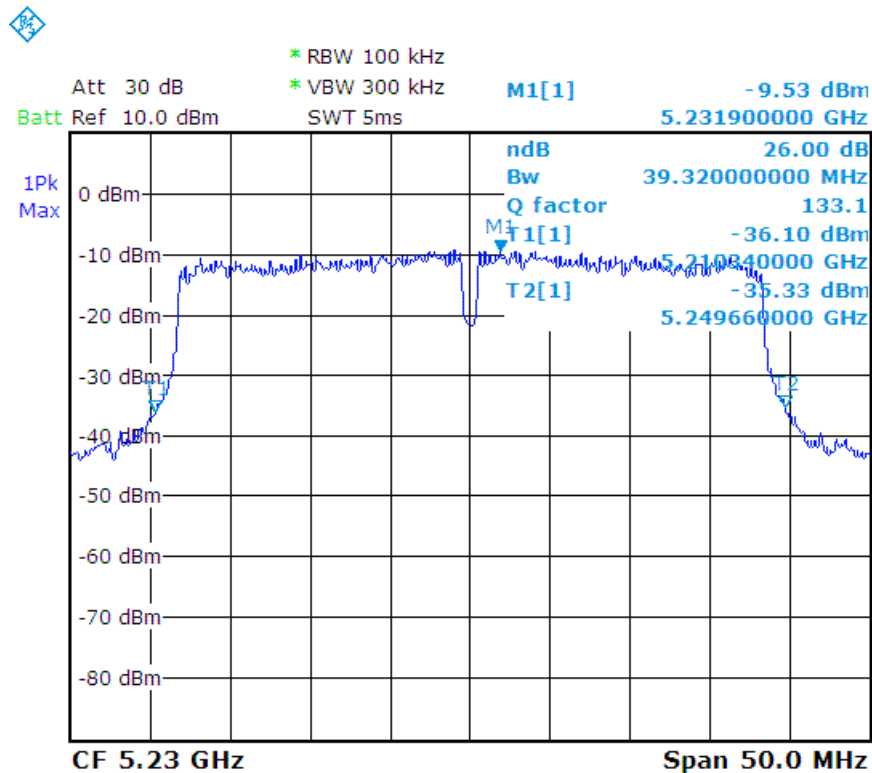
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 290 of 420
Date: Dec. 28, 2017

ac - HT40_CH46 :





Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

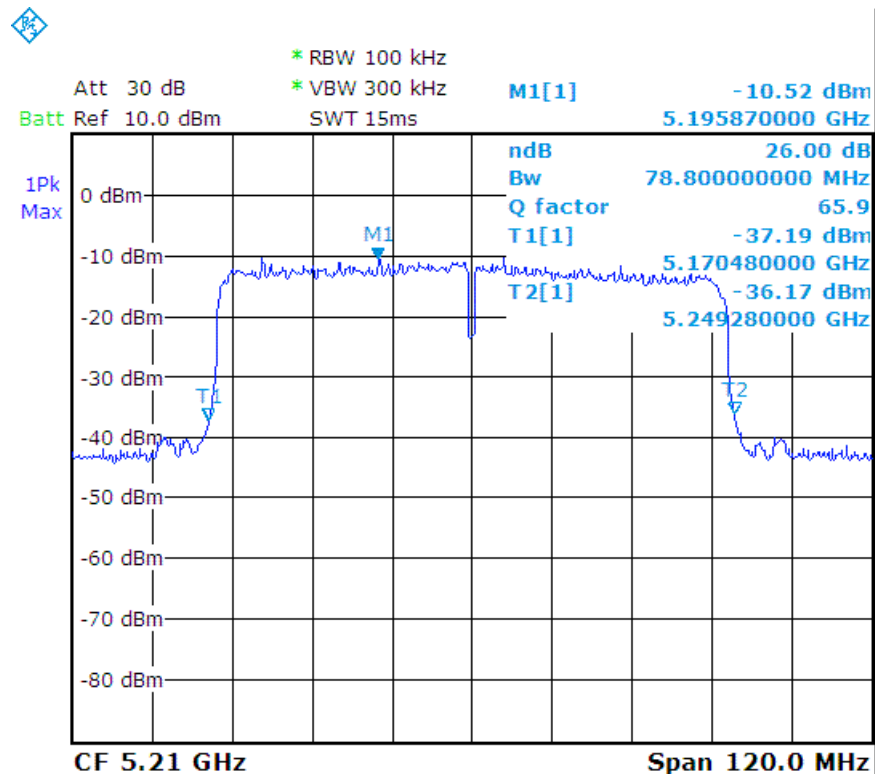
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 291 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.1G_802.11ac - HT80
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH42	5210	78.80

ac - HT80_CH42 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

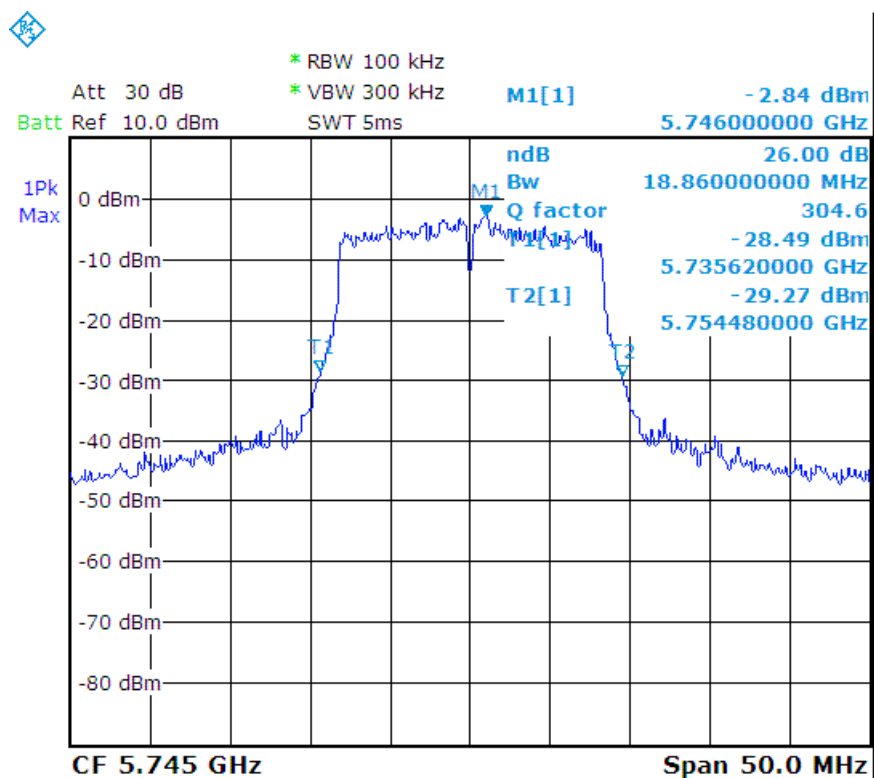
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 292 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11a
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH149	5745	18.86
CH157	5785	18.76
CH165	5825	18.86

a_CH149 :





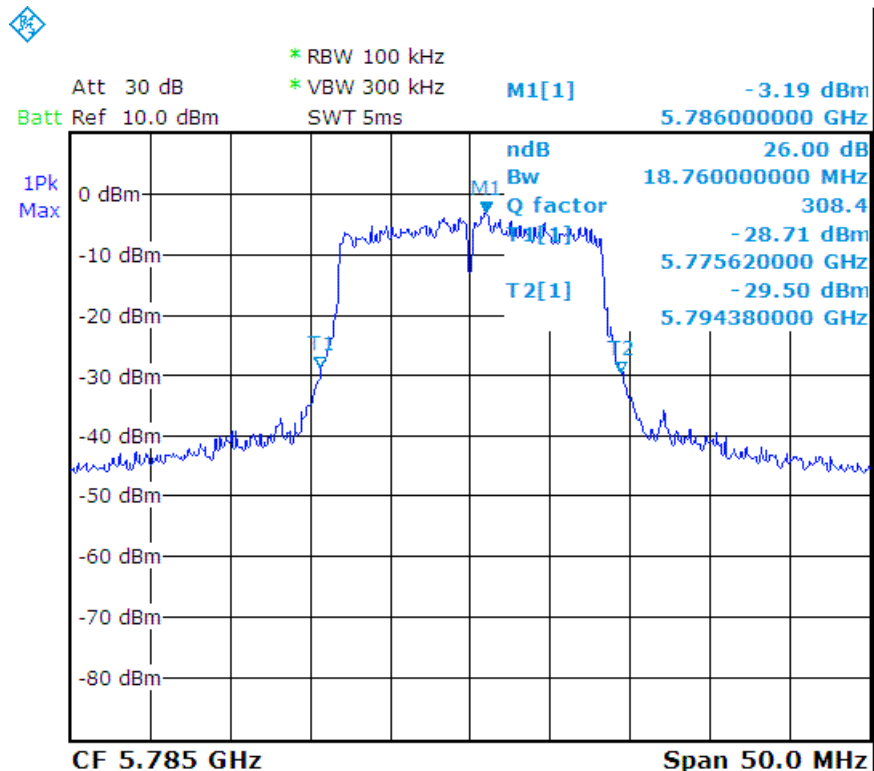
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

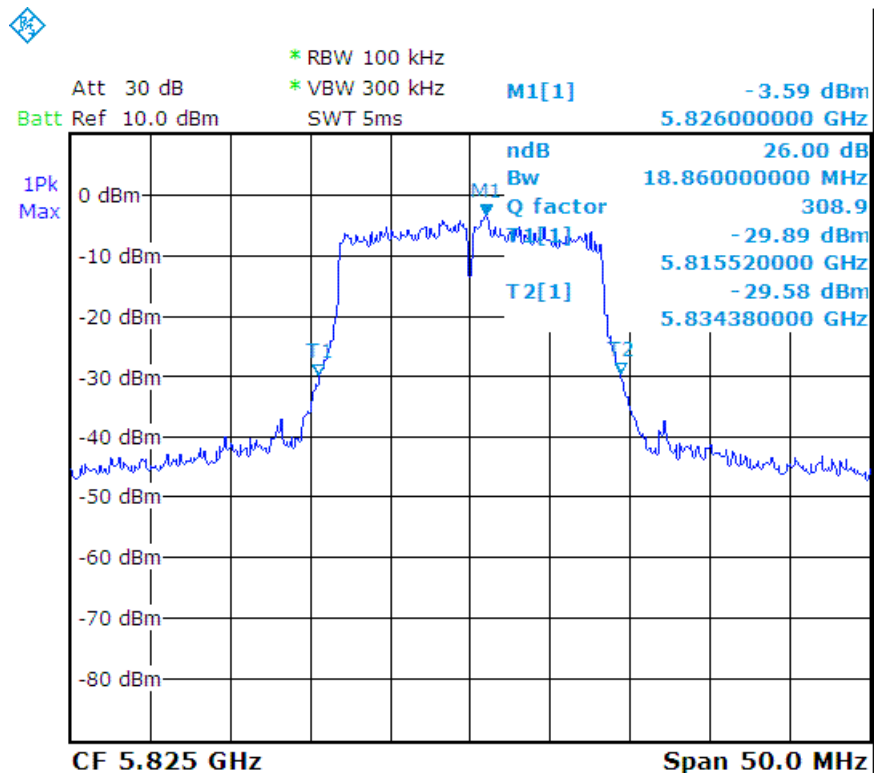
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 293 of 420
Date: Dec. 28, 2017

a_CH157 :



a_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

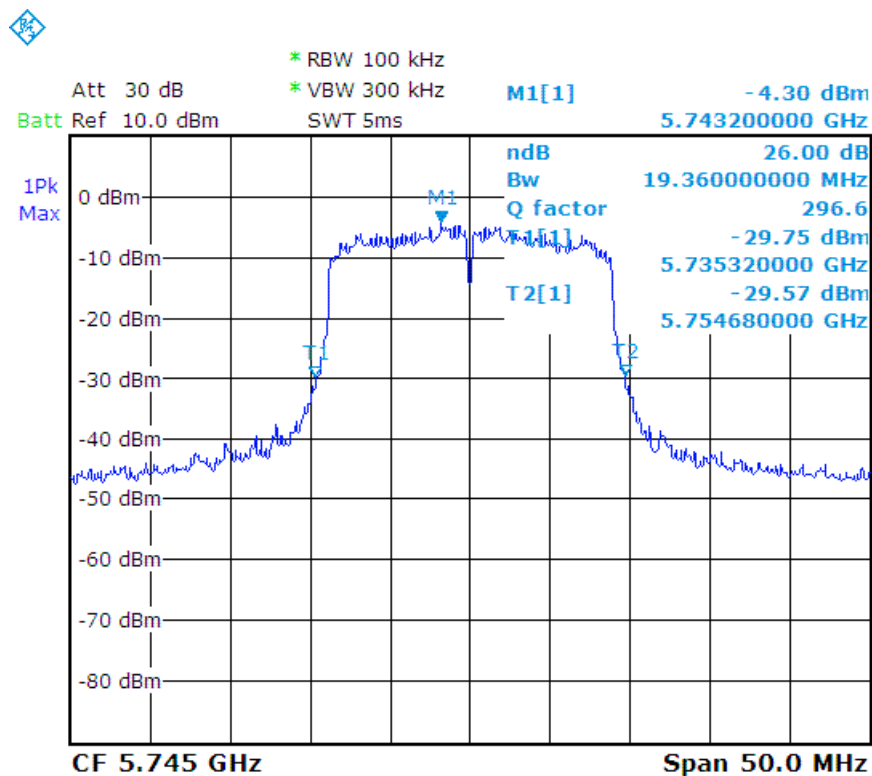
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 294 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11n - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH149	5745	19.36
CH157	5785	19.46
CH165	5825	19.36

n - HT20_CH149 :





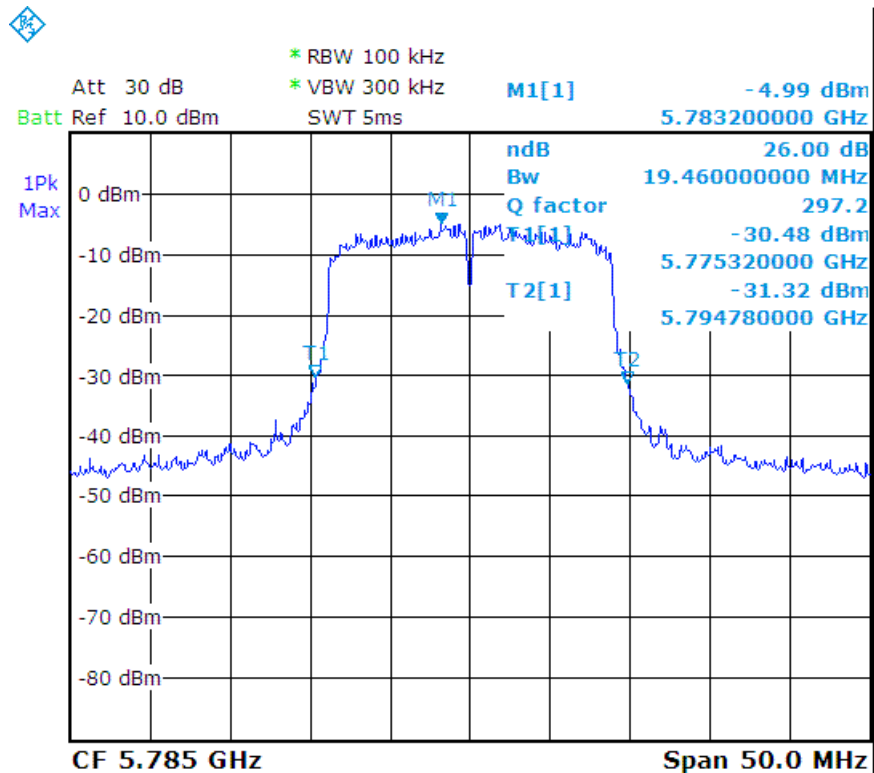
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

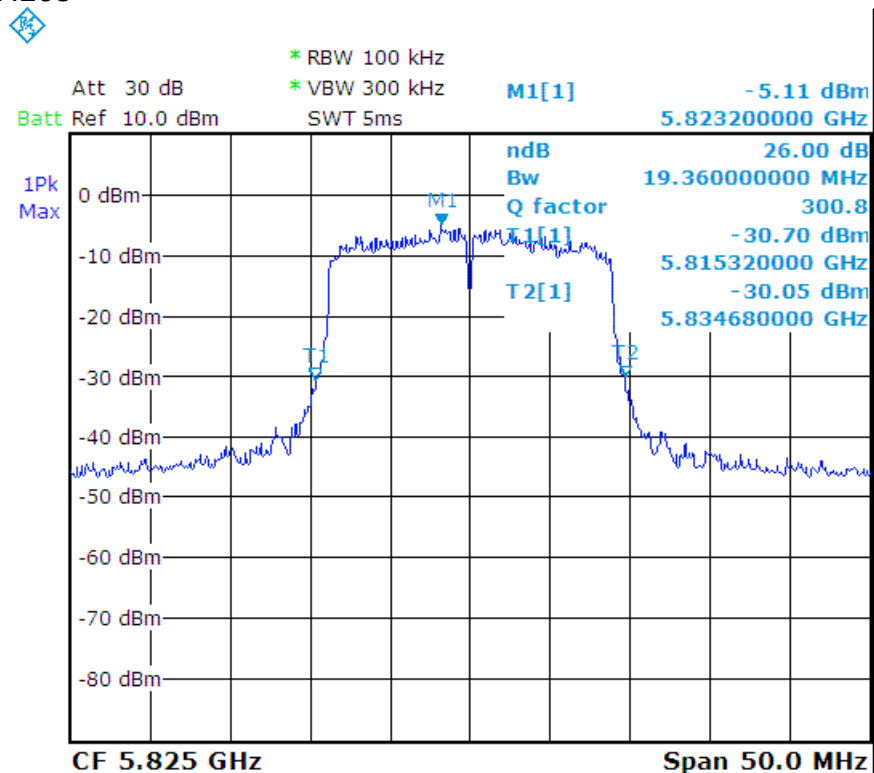
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 295 of 420
Date: Dec. 28, 2017

n - HT20_CH157 :



n - HT20_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

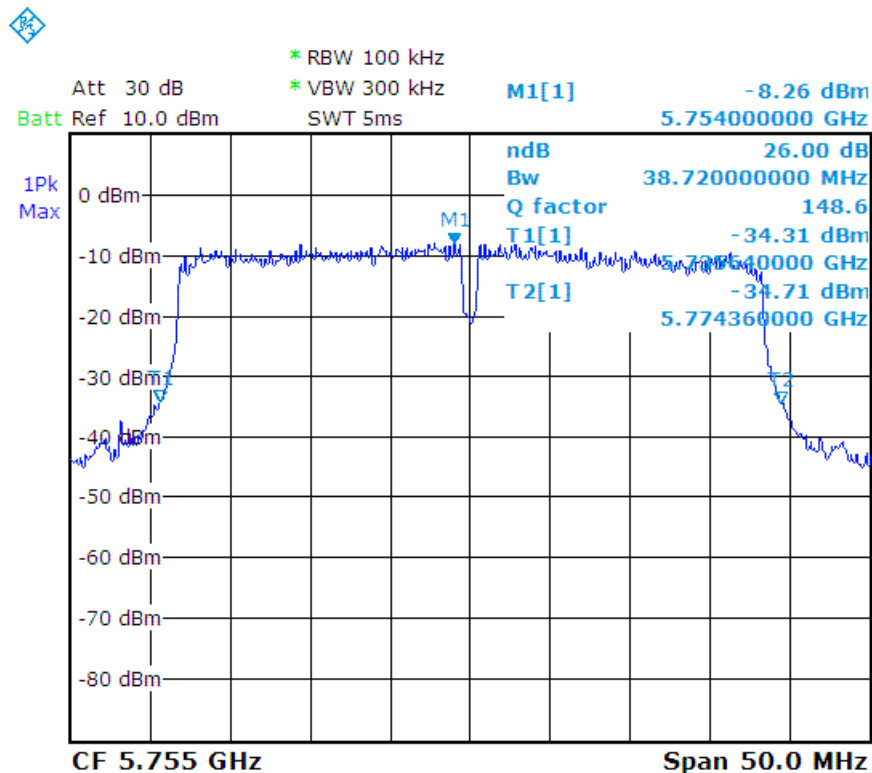
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 296 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11n - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH151	5755	38.72
CH159	5795	38.92

n - HT40_CH151 :





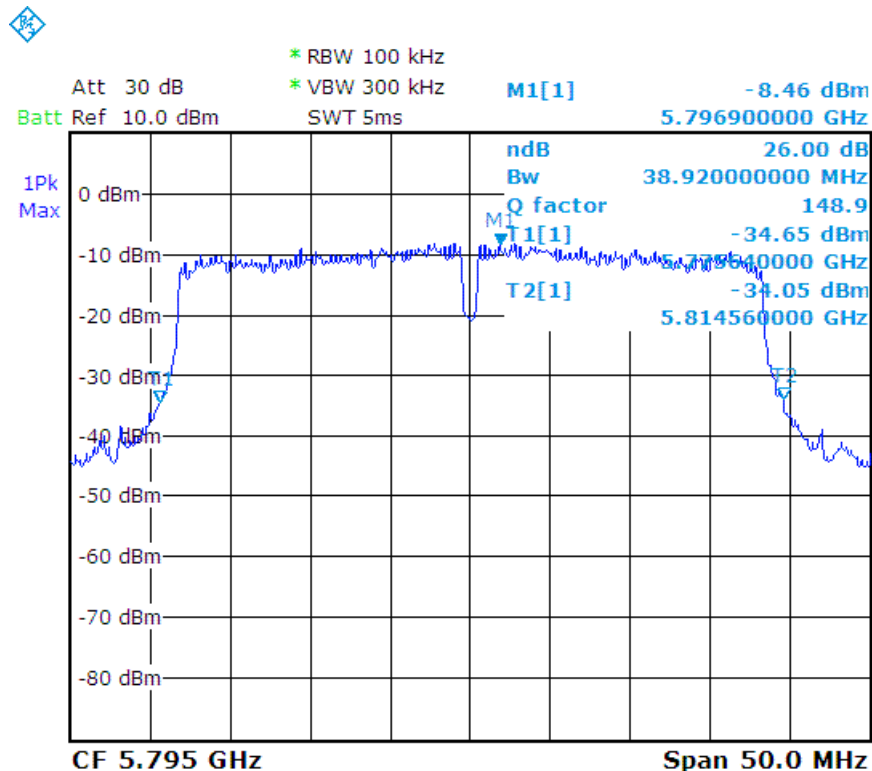
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 297 of 420
Date: Dec. 28, 2017

n - HT40_CH159 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

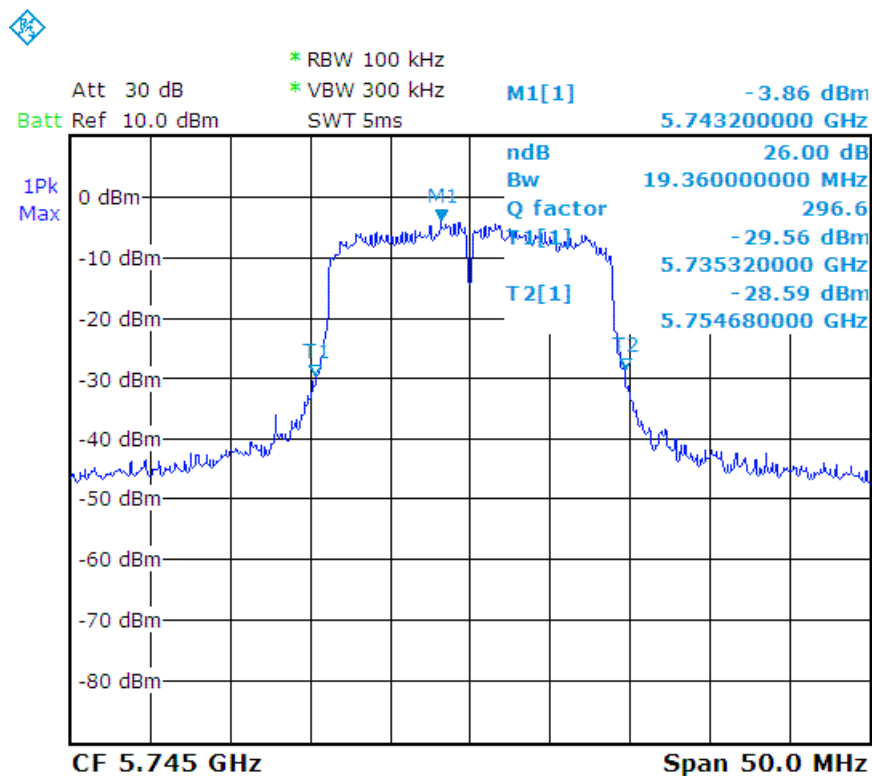
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 298 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT20
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH149	5745	19.36
CH157	5785	19.46
CH165	5825	19.36

ac - HT20_CH149 :





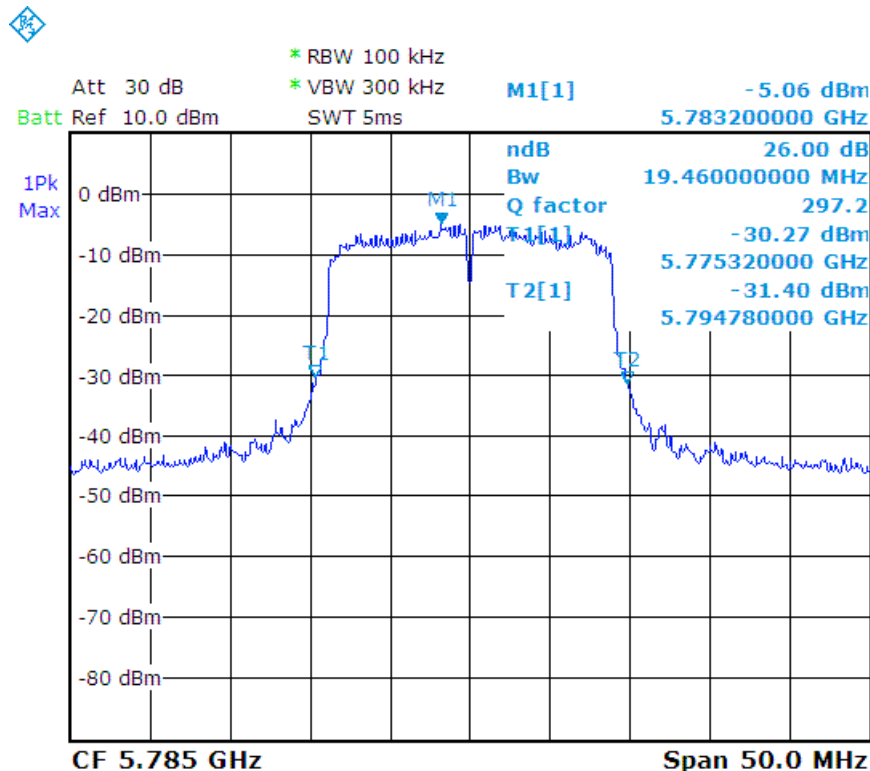
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

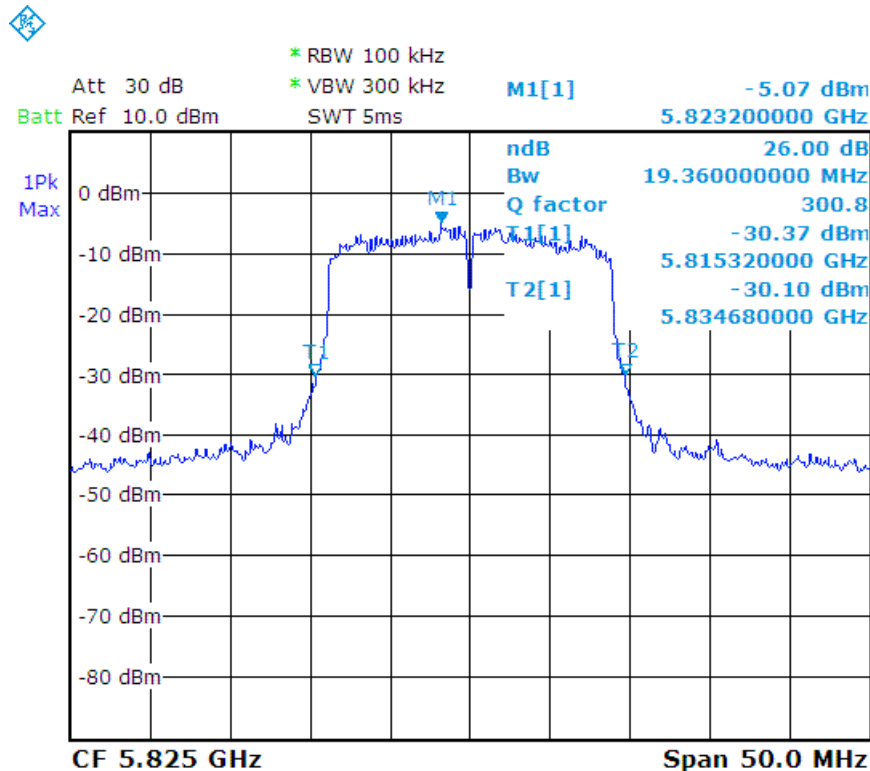
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 299 of 420
Date: Dec. 28, 2017

ac - HT20_CH157 :



ac - HT20_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

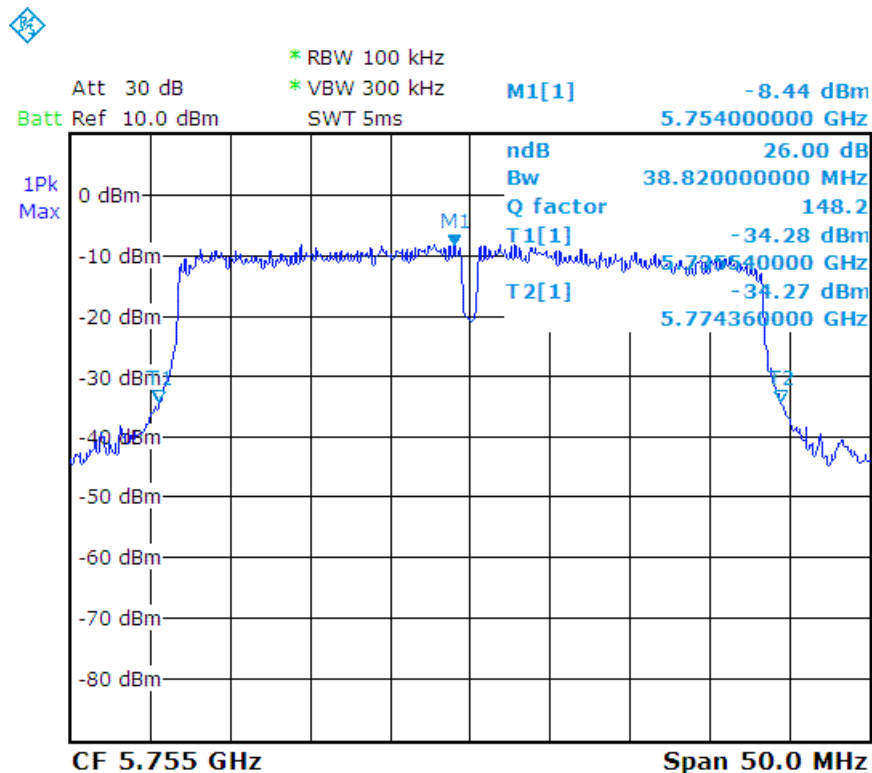
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 300 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT40
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH151	5755	38.82
CH159	5795	38.82

ac - HT40_CH151 :





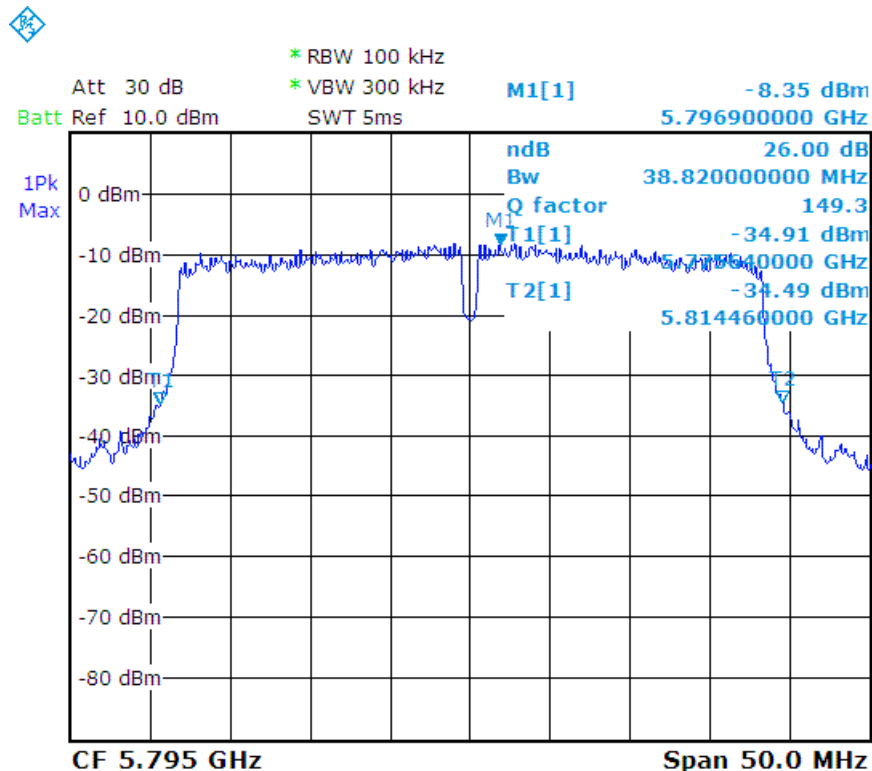
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 301 of 420
Date: Dec. 28, 2017

ac - HT40_CH159 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

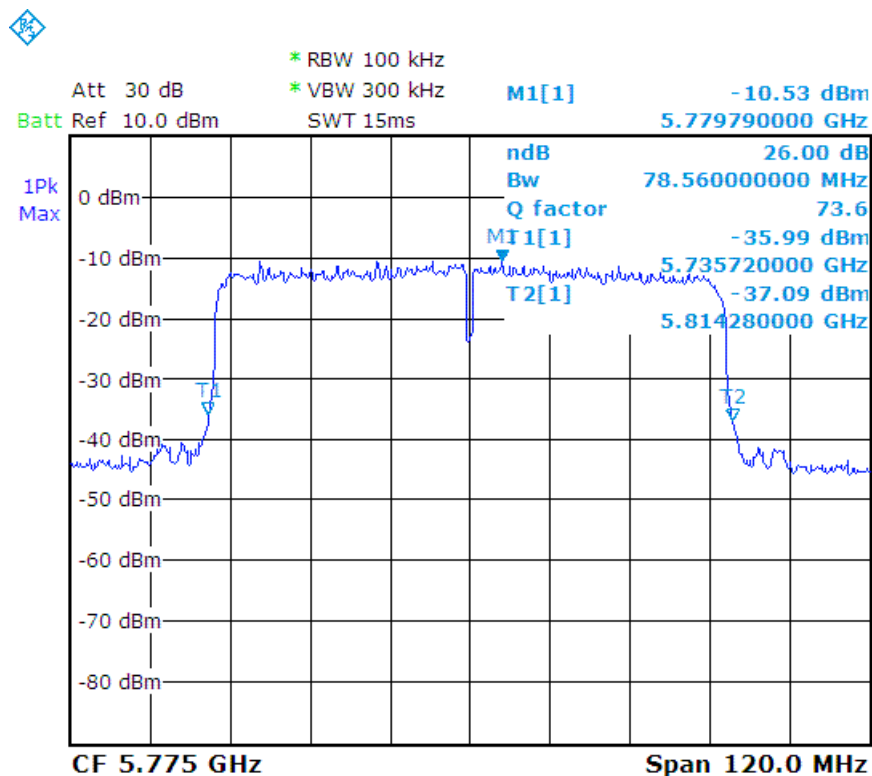
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 302 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	Peak	Test Mode:	5.8G_802.11ac - HT80
RBW:	100 kHz	VBW:	300 kHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	26dB Bandwidth (MHz)
CH155	5775	78.56

ac - HT80_CH155 :





4.4 PEAK CONDUCTED OUTPUT POWER TEST

4.4.1 LIMIT

FCC Part15, Subpart E Section 15.407(a)(1)(iii).

For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

FCC Part15, Subpart E Section 15.407(a)(3).

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

The signals are correlated.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

NOTE:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 5.01\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

4.4.2 TEST EQUIPMENT

The following test equipment was used during the test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER (INCLUDE SPECTRUM ANALYZER)	9 KHz ~ 6 GHz	ROHDE & SCHWARZ	ESL /100176	MAY 21, 2018 ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 304 of 420
Date: Dec. 28, 2017

4.4.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.4.4 TEST PROCEDURE

The EUT was operating in continuous transmission mode or could control its channel. Printed out the test result from the spectrum by hard copy function.

4.4.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.

**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

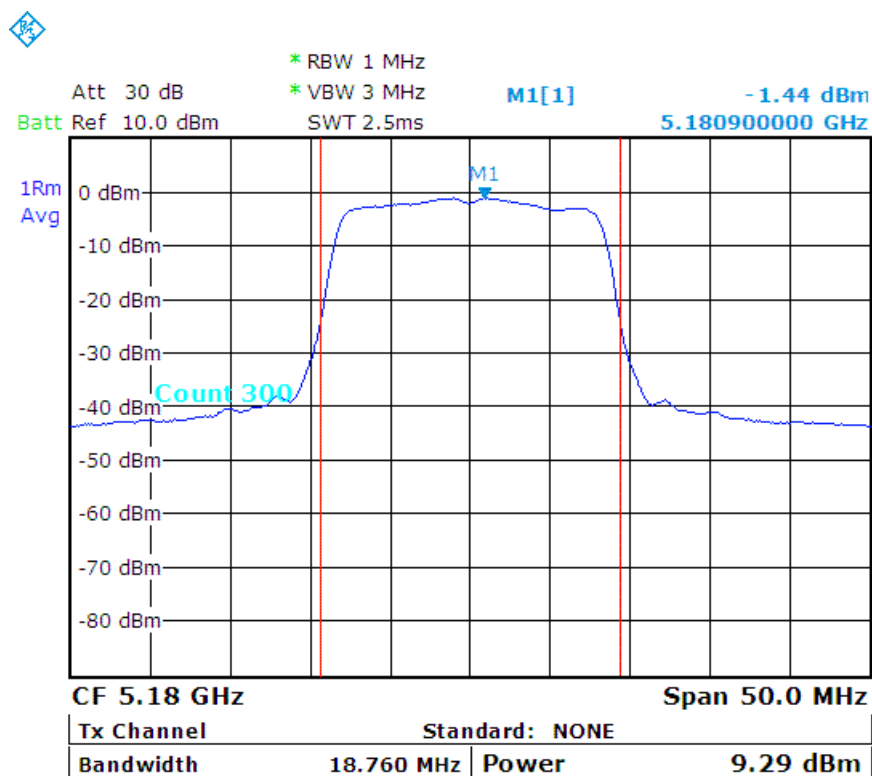
Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 305 of 420
Date: Dec. 28, 2017

4.4.6 TEST RESULT

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.1G_802.11a
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power		Limit (dBm)
			(dBm)	(mW)	
CH36	5180	18.76	9.29	8.49	30
CH40	5200	18.76	8.65	7.33	30
CH48	5240	18.76	7.76	5.97	30

a_CH36 :





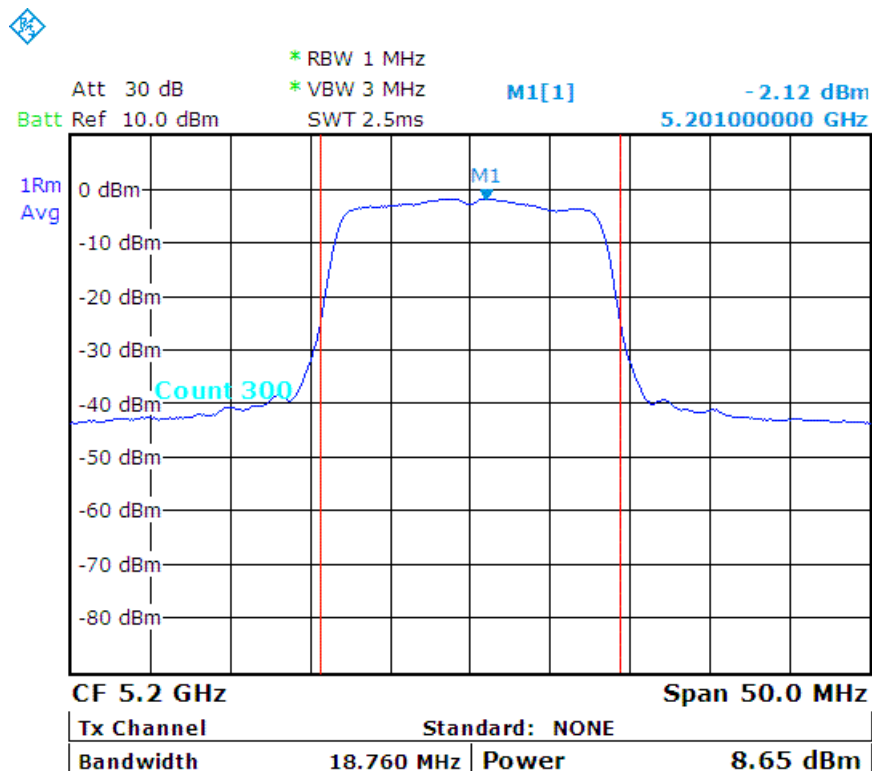
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

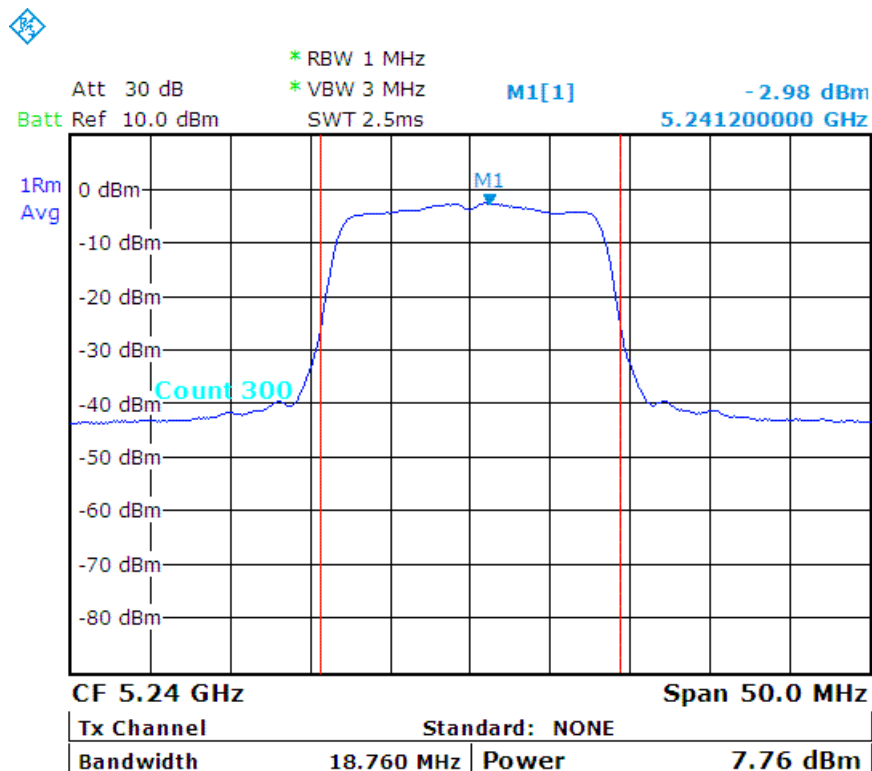
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 306 of 420
Date: Dec. 28, 2017

a_CH40 :



a_CH48 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

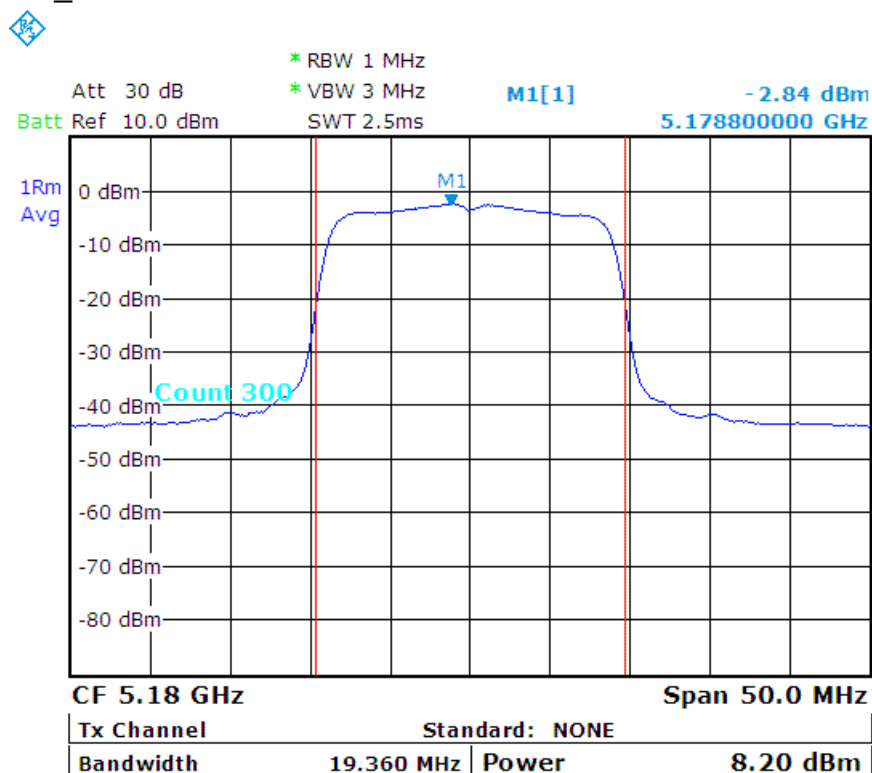
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 307 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.1G_802.11n - HT20
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH36_ANT1	5180	19.36	8.20	11.92	15.56	30
CH36_ANT2			9.52			
CH40_ANT1	5200	19.36	7.49	11.31	13.52	30
CH40_ANT2			8.98			
CH48_ANT1	5240	19.46	6.45	10.09	10.21	30
CH48_ANT1			7.63			

n - HT20_CH36_ANT1 :





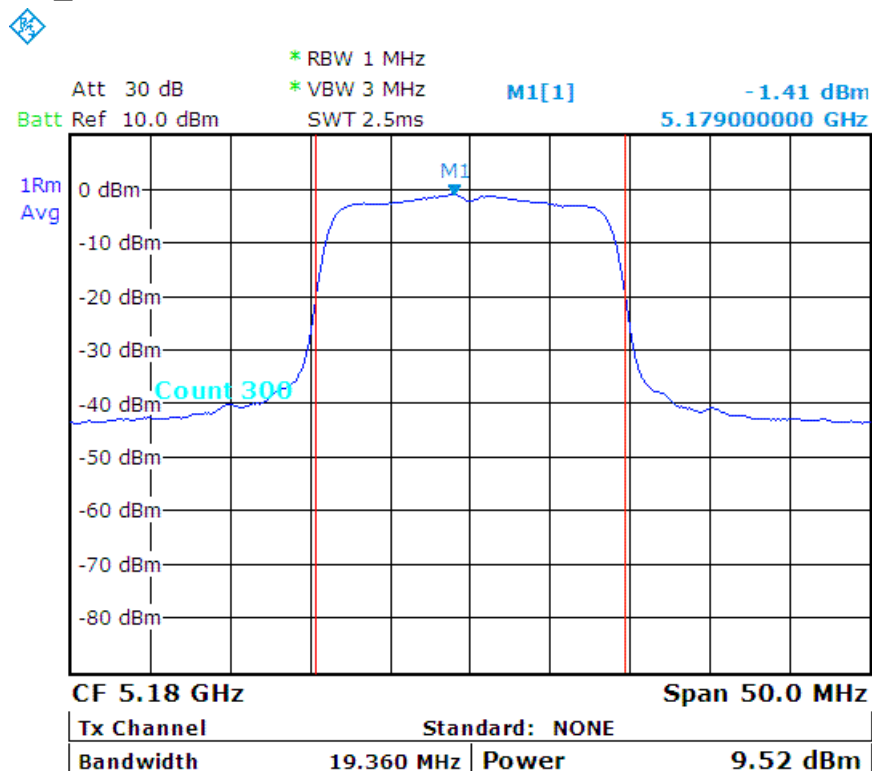
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

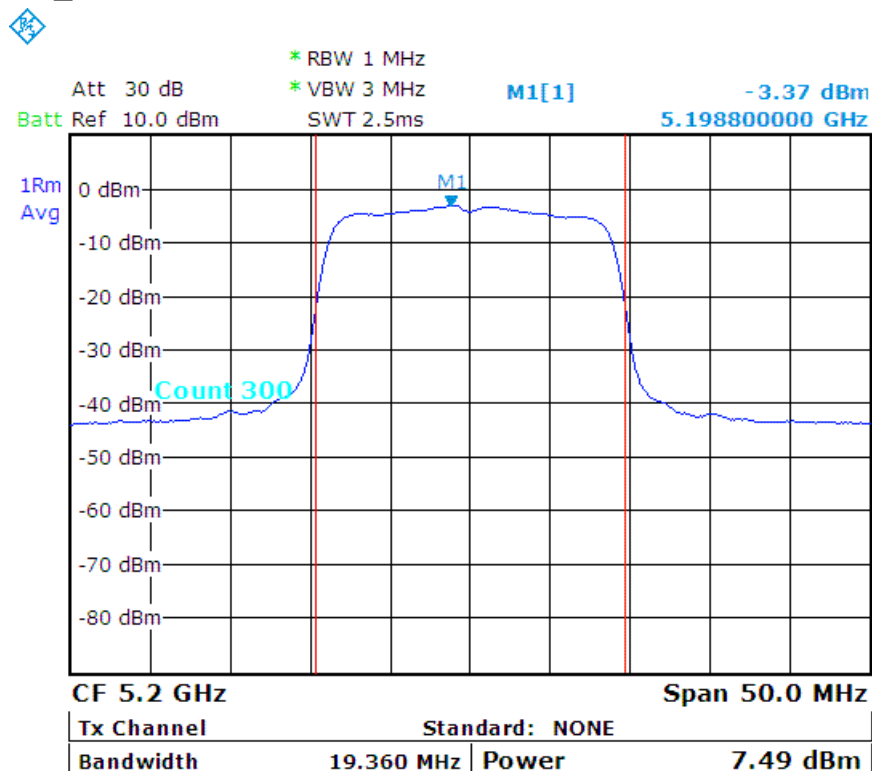
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 308 of 420
Date: Dec. 28, 2017

n - HT20_CH36_ANT2 :



n - HT20_CH40_ANT1 :





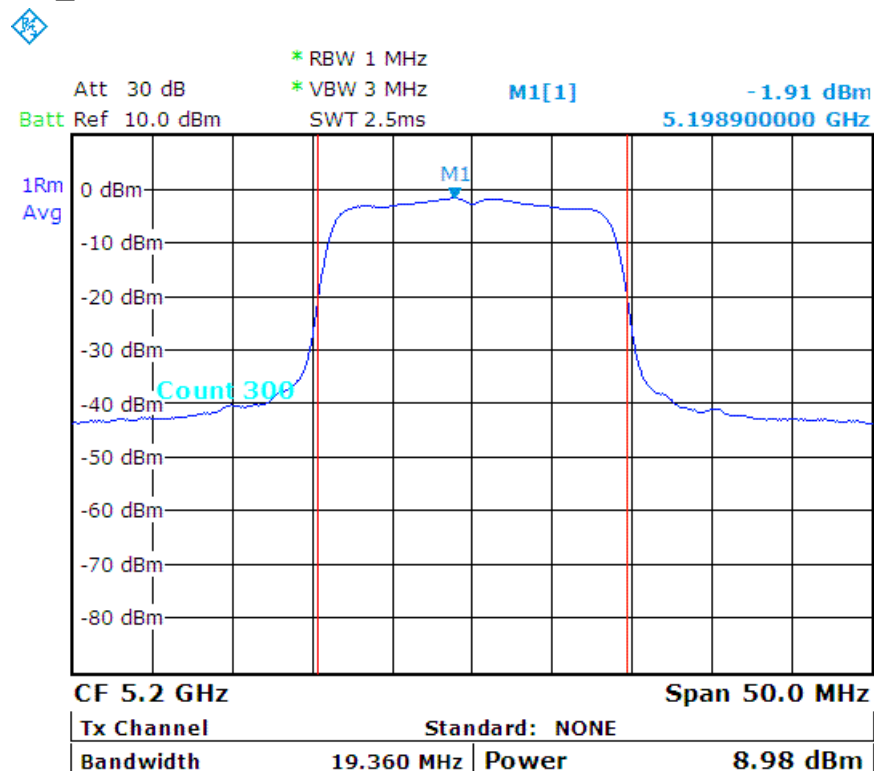
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

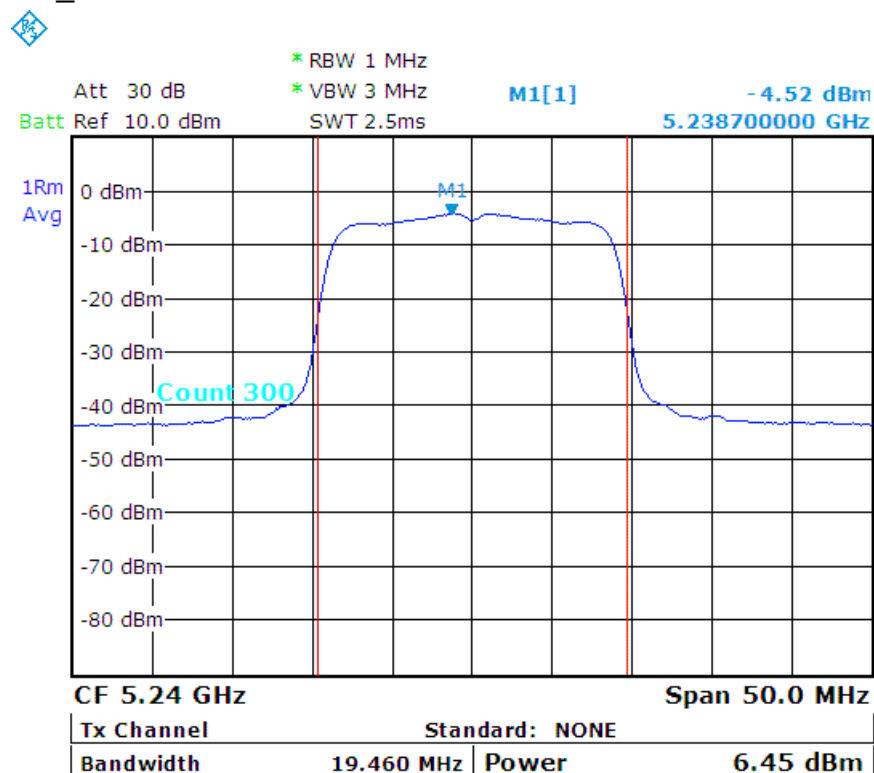
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 309 of 420
Date: Dec. 28, 2017

n - HT20_CH40_ANT2 :



n - HT20_CH48_ANT1 :





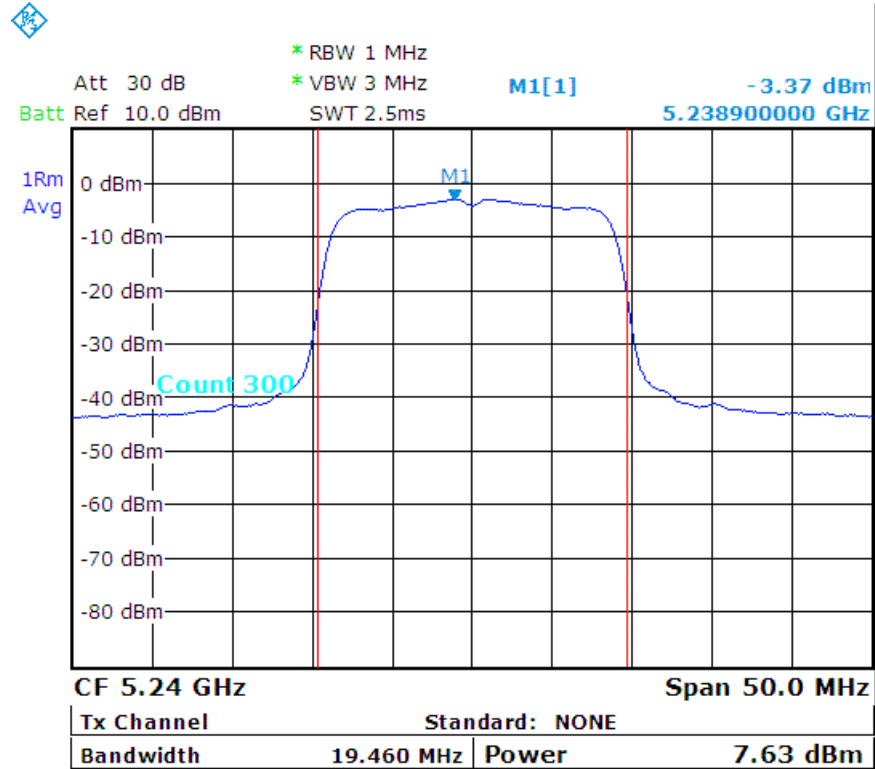
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 310 of 420
Date: Dec. 28, 2017

n - HT20_CH48_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

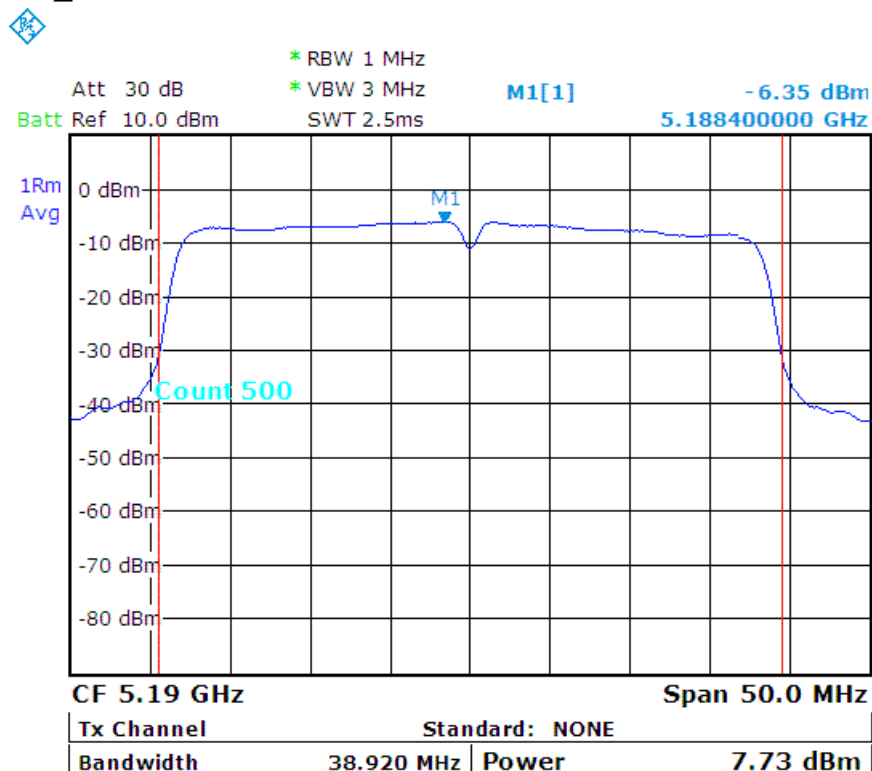
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 311 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.1G_802.11n - HT40
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH38_ANT1	5190	38.92	7.73	11.51	14.17	30
CH38_ANT2			9.16			
CH46_ANT1	5230	39.12	6.45	10.08	10.18	30
CH46_ANT2			7.61			

n - HT40_CH38_ANT1 :





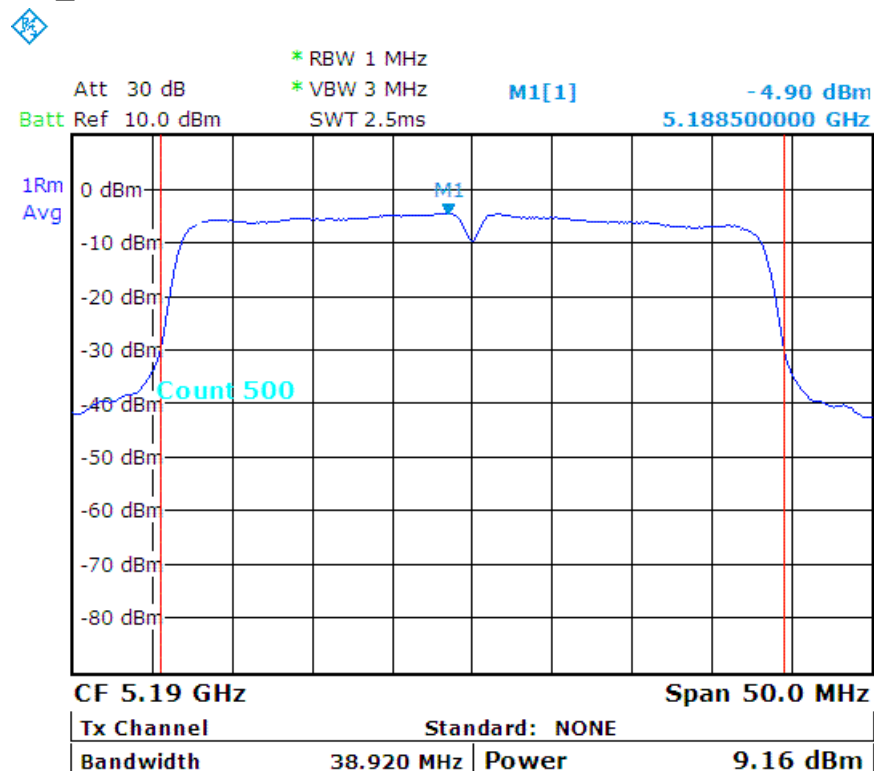
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

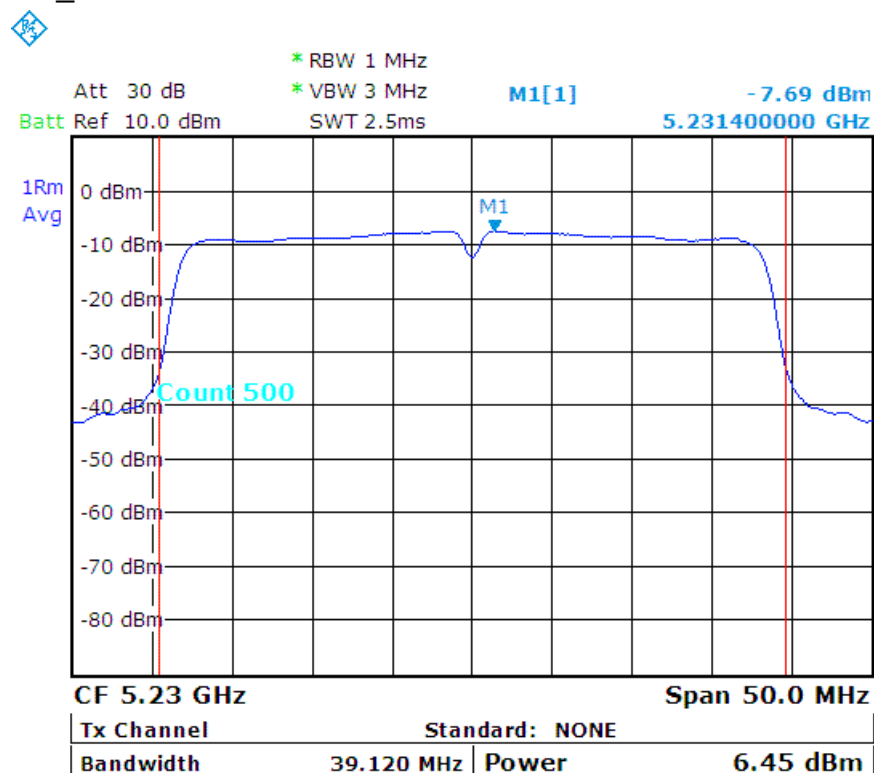
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 312 of 420
Date: Dec. 28, 2017

n - HT40_CH38_ANT2 :



n - HT40_CH46_ANT1 :





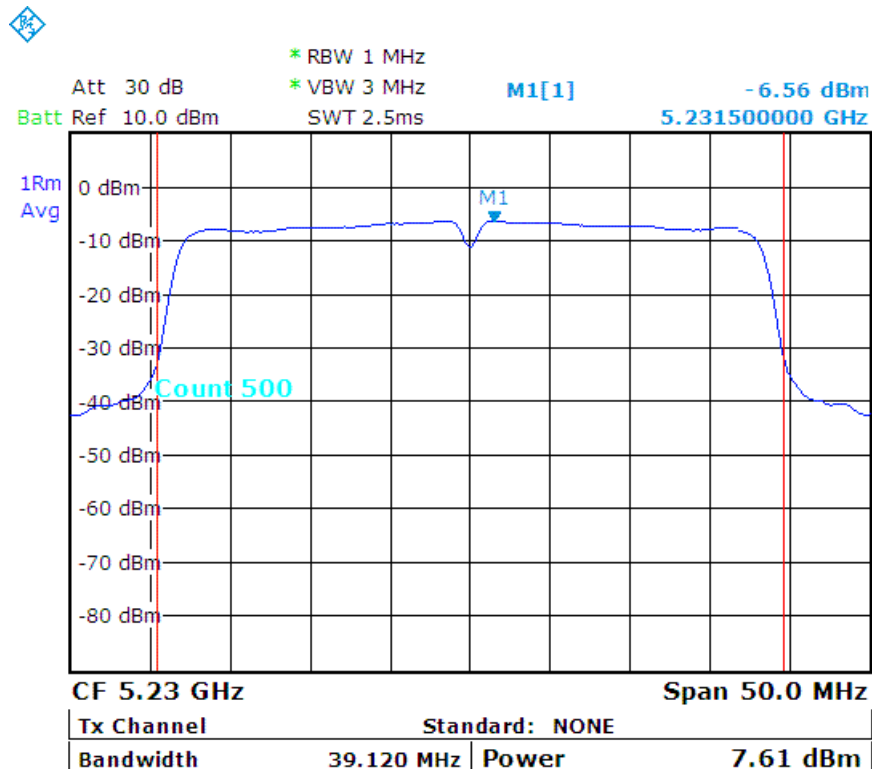
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 313 of 420
Date: Dec. 28, 2017

n - HT40_CH46_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

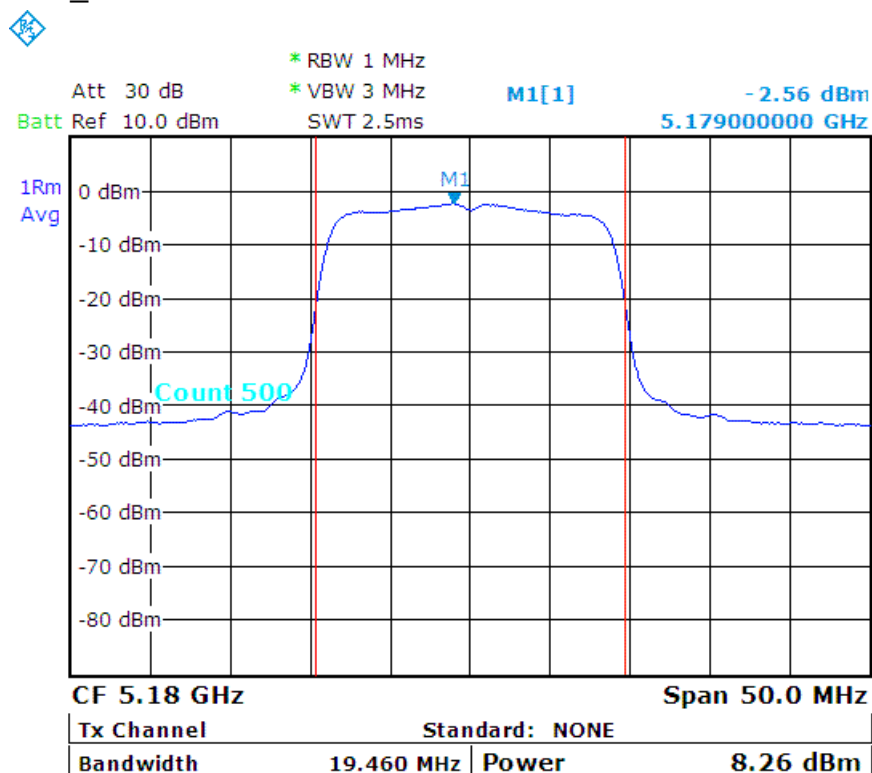
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 314 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.1G_802.11ac - HT20
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH36_ANT1	5180	19.46	8.26	11.92	15.57	30
CH36_ANT2			9.48			
CH40_ANT1	5200	19.36	7.19	10.98	12.53	30
CH40_ANT2			8.63			
CH48_ANT1	5240	19.36	4.90	7.36	5.44	30
CH48_ANT1			3.71			

ac - HT20_CH36_ANT1 :





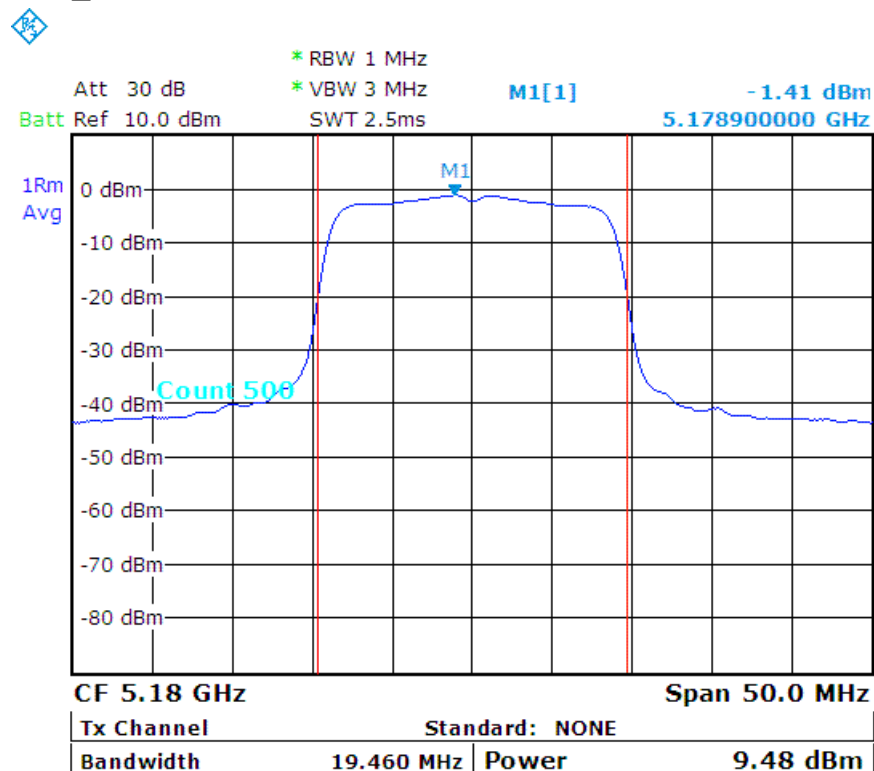
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

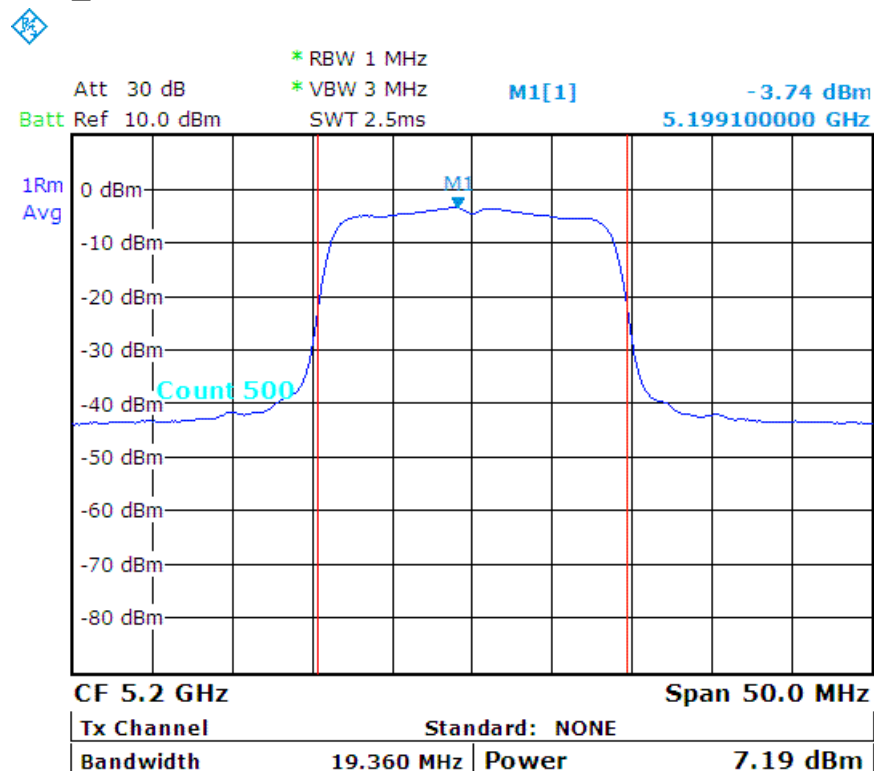
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 315 of 420
Date: Dec. 28, 2017

ac - HT20_CH36_ANT2 :



ac - HT20_CH40_ANT1 :





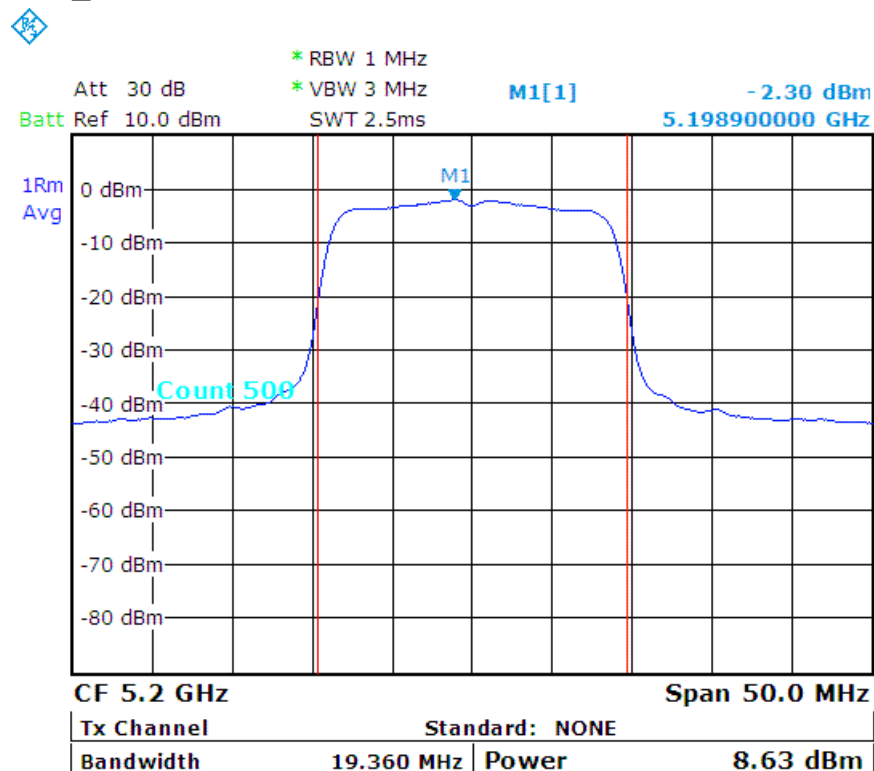
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

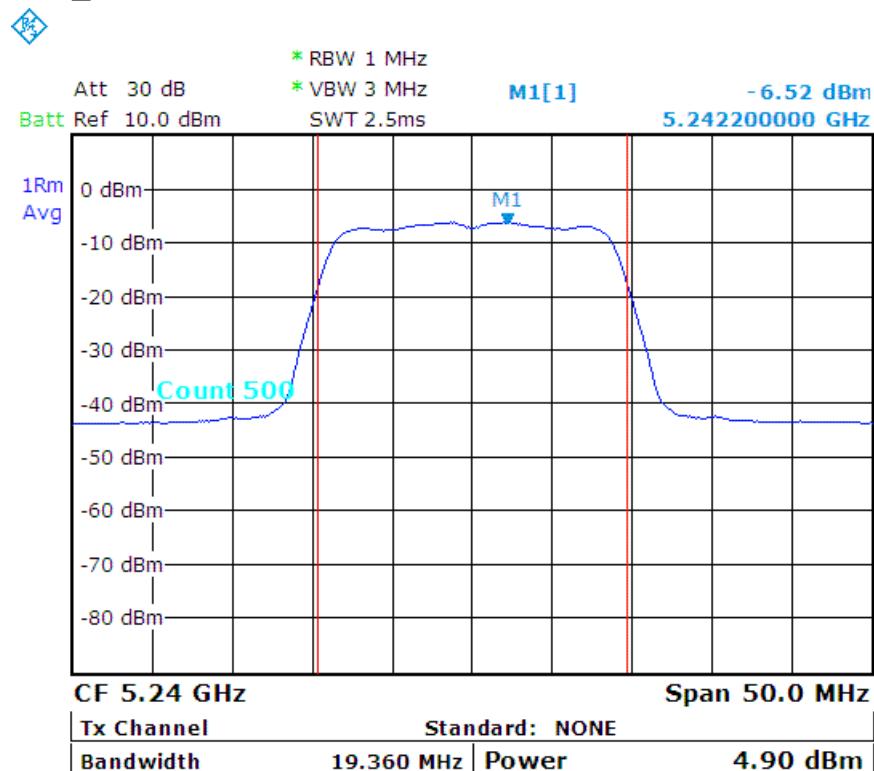
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 316 of 420
Date: Dec. 28, 2017

ac - HT20_CH40_ANT2 :



ac - HT20_CH48_ANT1 :





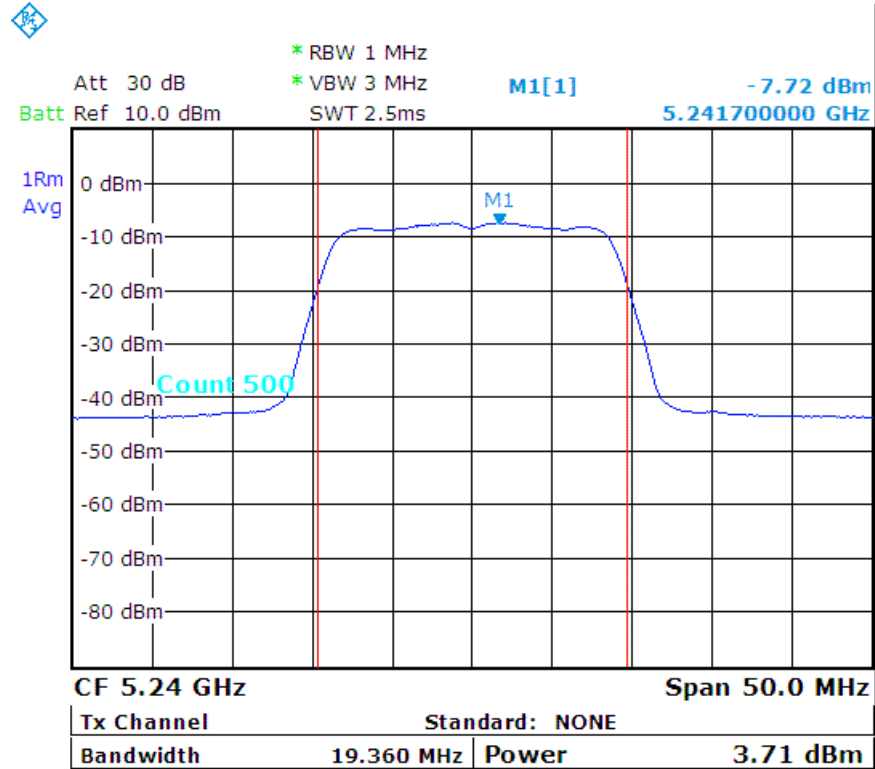
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 317 of 420
Date: Dec. 28, 2017

ac - HT20_CH48_ANT2 :



Temperature: 20 °C

Humidity: 54 %RH

Detector: RMS

Test Mode: 5.1G 802.11ac - HT40

RBW: 1 MHz

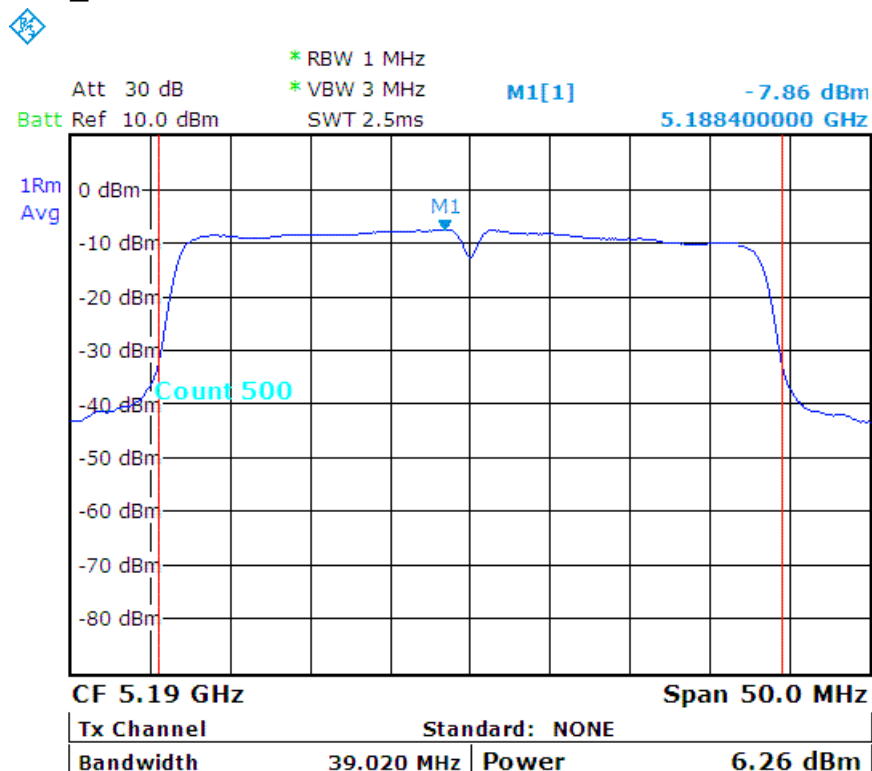
VBW: 3 MHz

Tested By: Richard Lin

Tested Date: Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH38_ANT1	5190	39.02	6.26	10.70	11.74	30
CH38_ANT2			8.76			
CH46_ANT1	5230	39.32	5.95	8.13	6.50	30
CH46_ANT2			4.09			

ac - HT40 CH38 ANT1 :





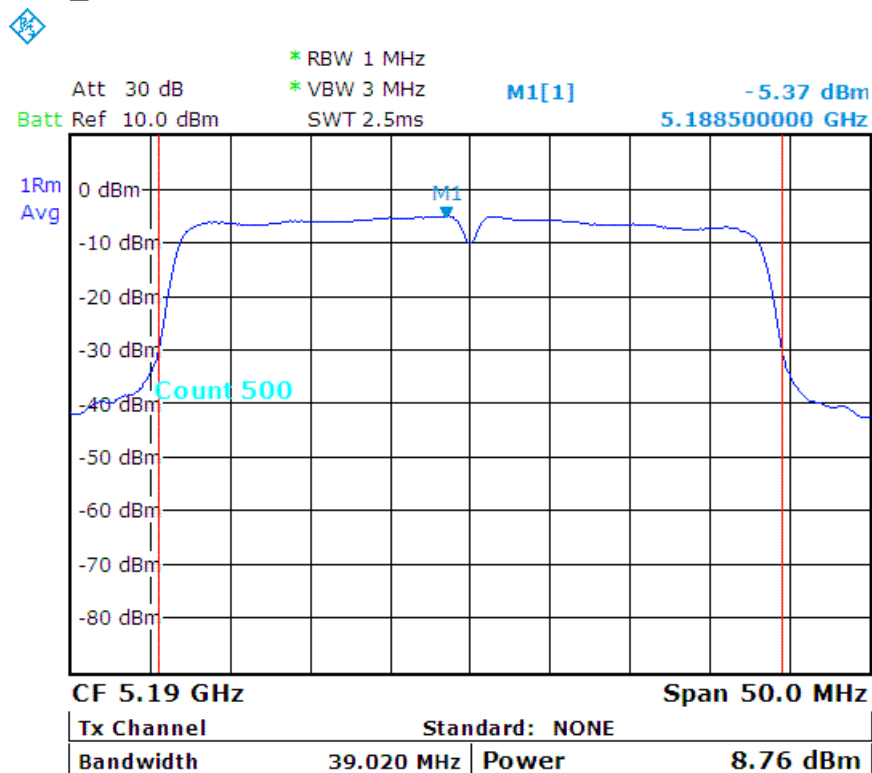
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

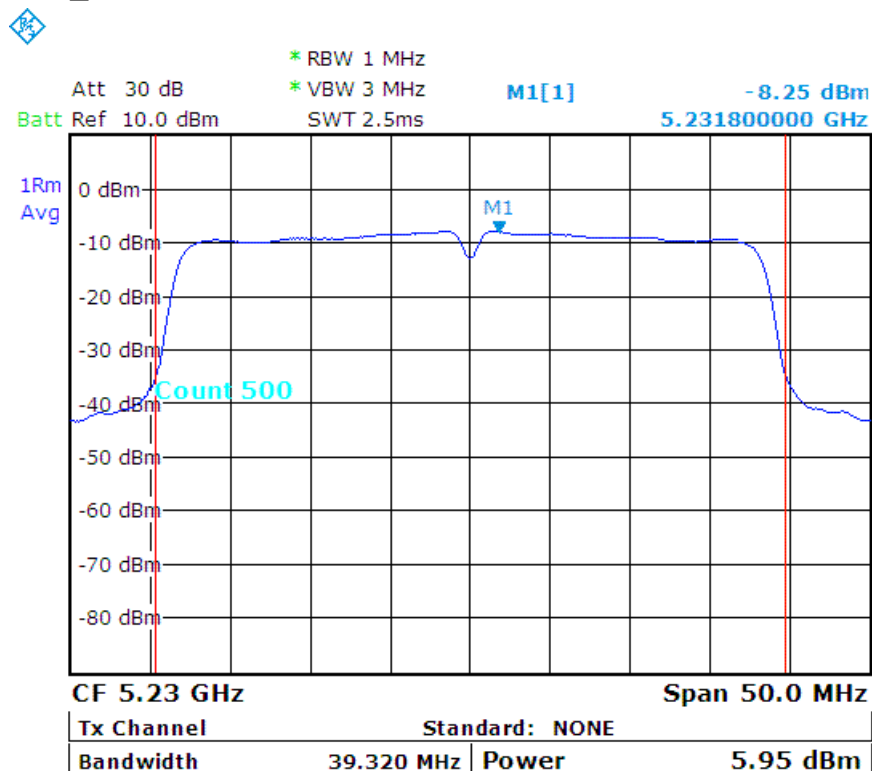
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 319 of 420
Date: Dec. 28, 2017

ac - HT40_CH38_ANT2 :



ac - HT40_CH46_ANT1 :





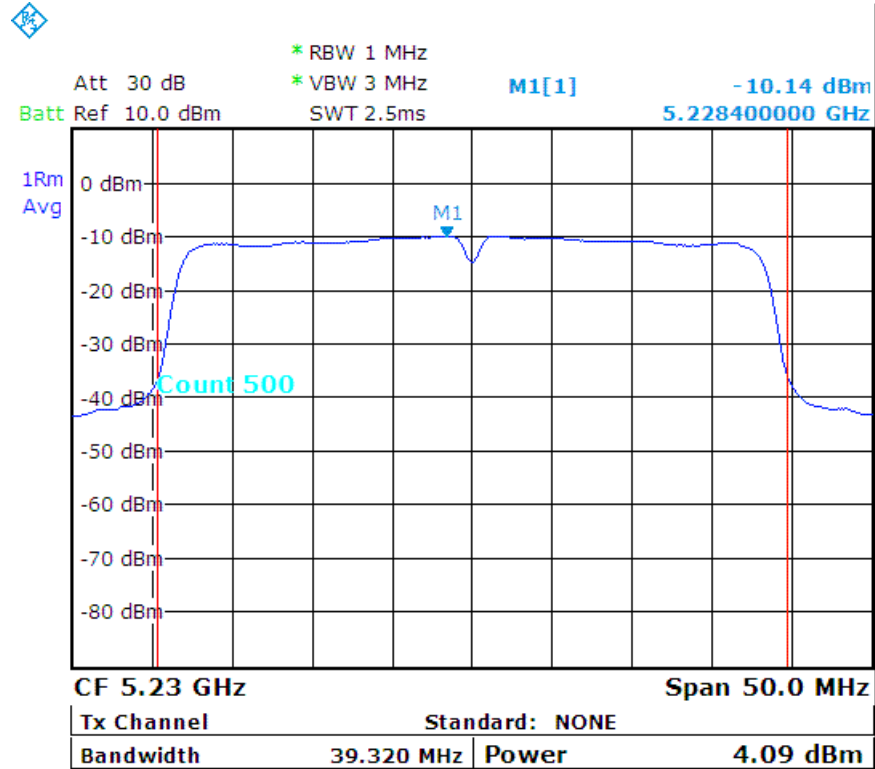
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 320 of 420
Date: Dec. 28, 2017

ac - HT40_CH46_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

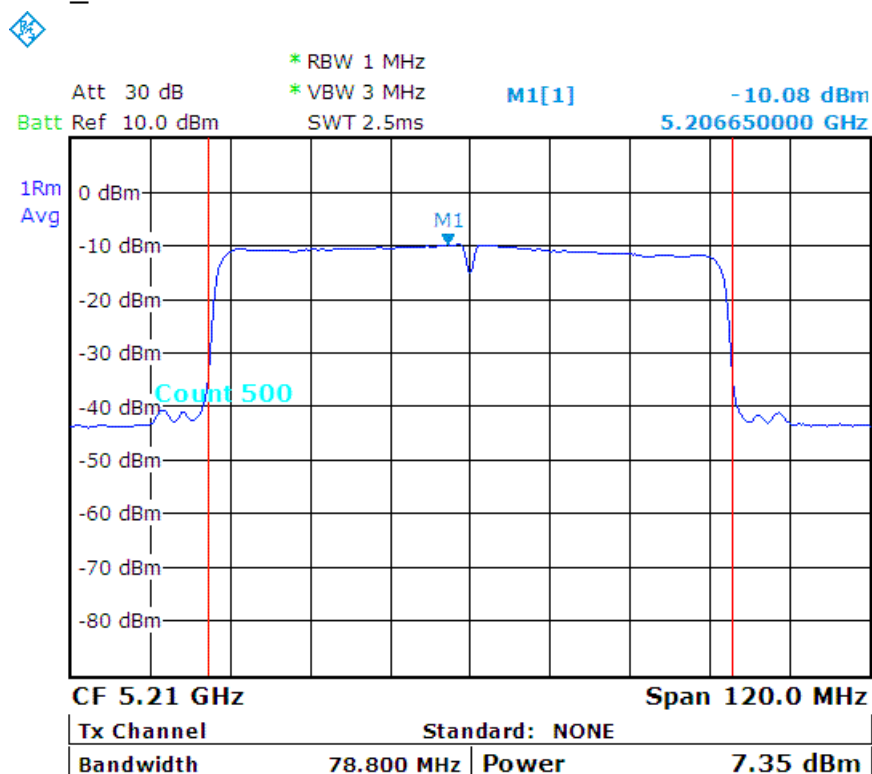
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 321 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.1G_802.11ac - HT80
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH42_ANT1	5210	78.80	7.35	11.19	13.16	30
CH42_ANT2			8.88			

ac - HT80_CH42_ANT1 :





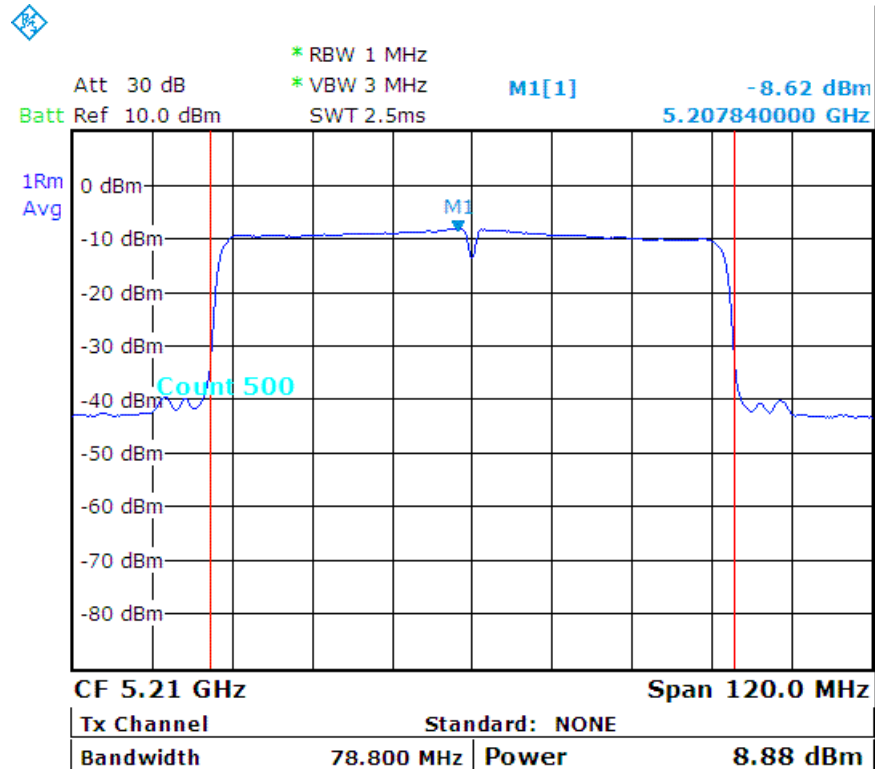
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 322 of 420
Date: Dec. 28, 2017

ac - HT80_CH42_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

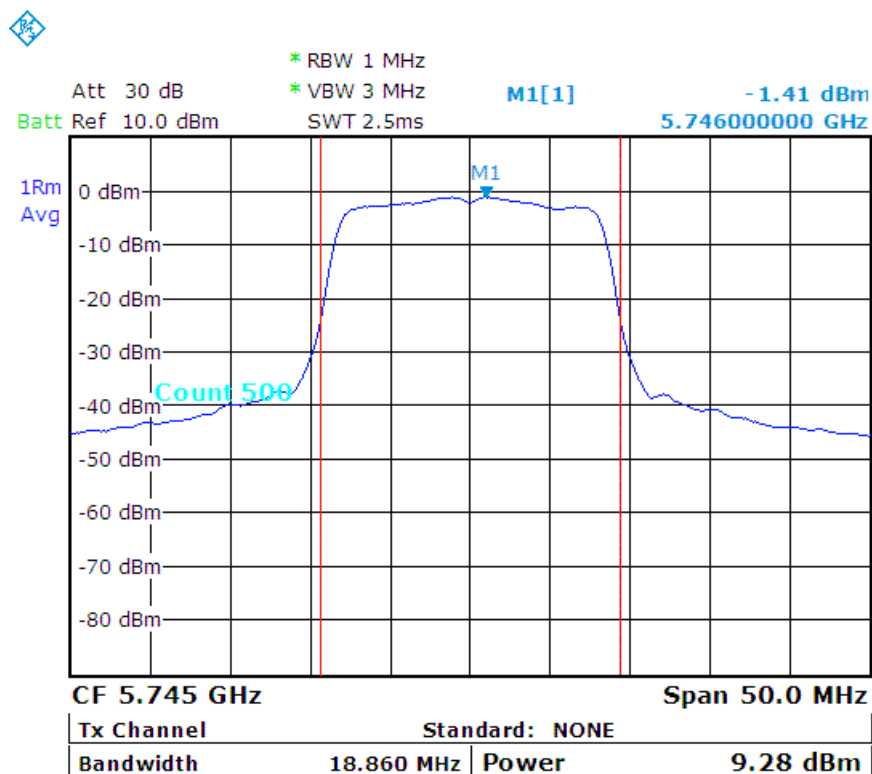
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 323 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.8G_802.11a
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power		Limit (dBm)
			(dBm)	(mW)	
CH149	5745	18.86	9.28	8.47	30
CH157	5785	18.76	8.31	6.78	30
CH165	5825	18.86	7.82	6.05	30

a_CH149 :





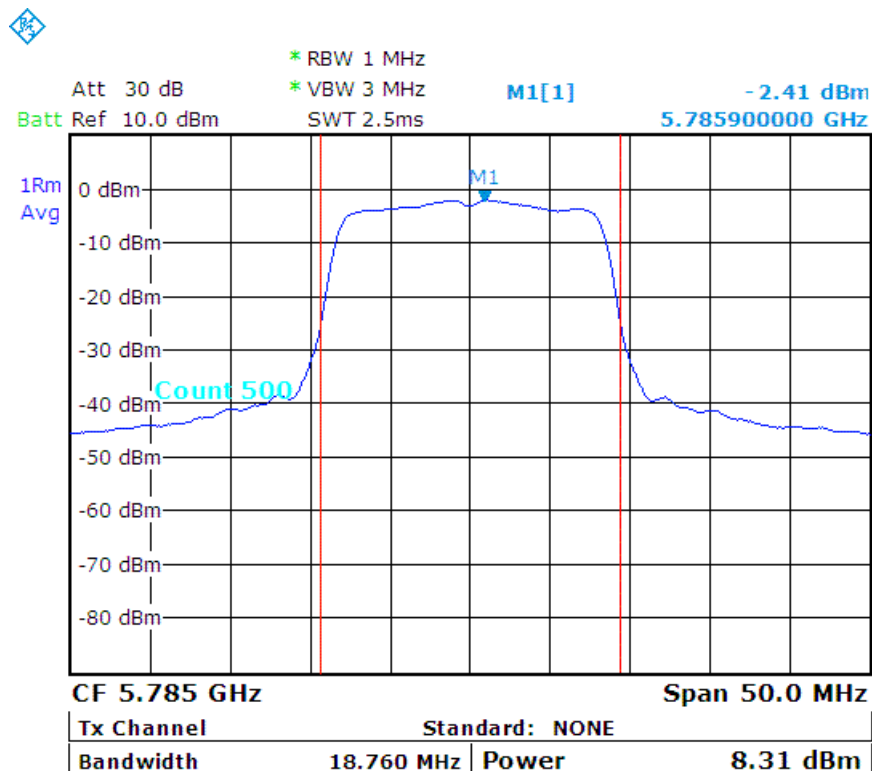
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

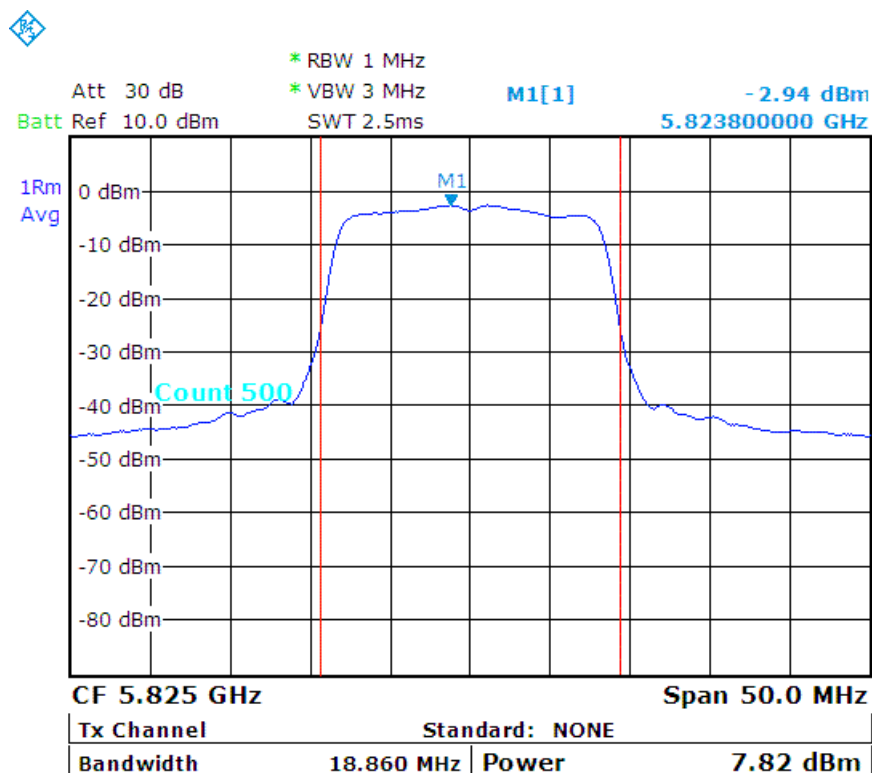
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 324 of 420
Date: Dec. 28, 2017

a_CH157 :



a_CH165 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

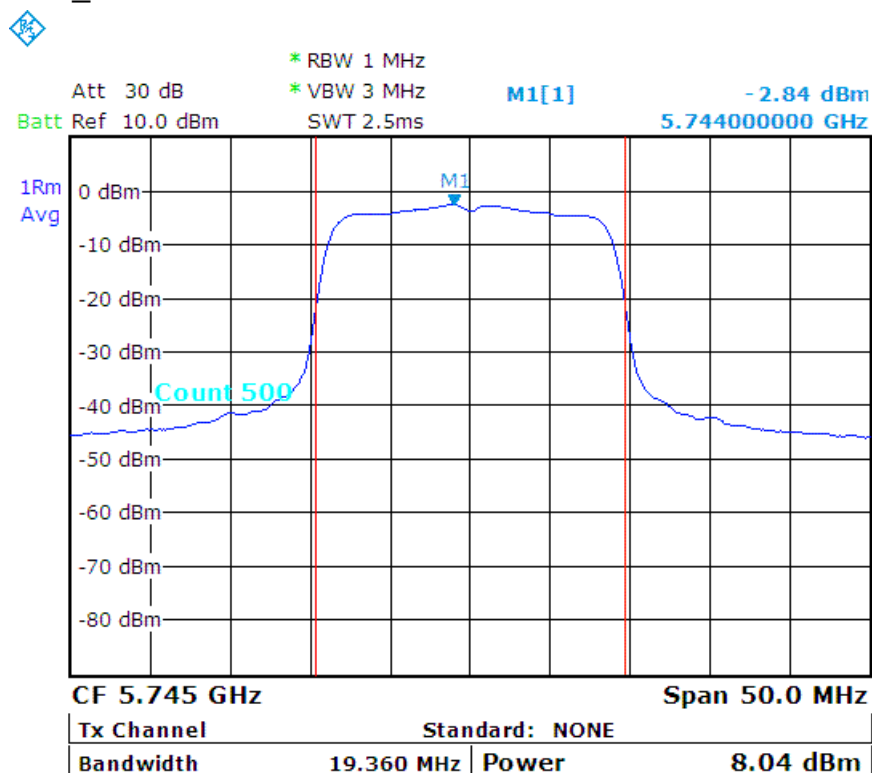
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 325 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.8G_802.11n - HT20
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH149_ANT1	5745	19.36	8.04	11.48	14.06	30
CH149_ANT2			8.86			
CH157_ANT1	5785	19.46	7.12	10.64	11.58	30
CH157_ANT2			8.08			
CH165_ANT1	5825	19.36	6.76	9.89	9.74	30
CH165_ANT1			6.99			

n - HT20_CH149_ANT1 :





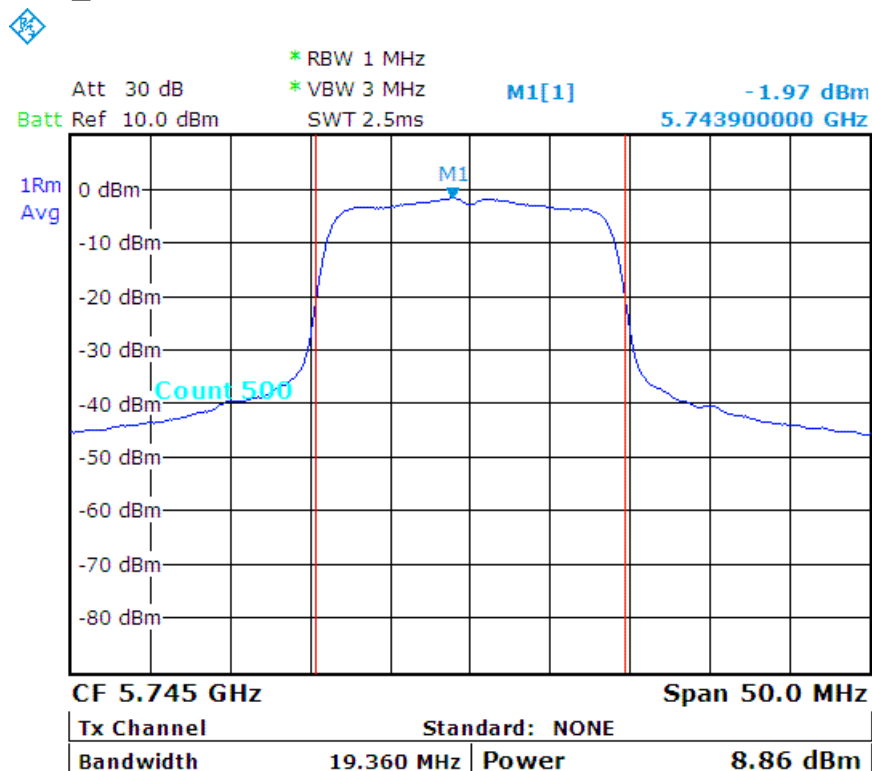
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

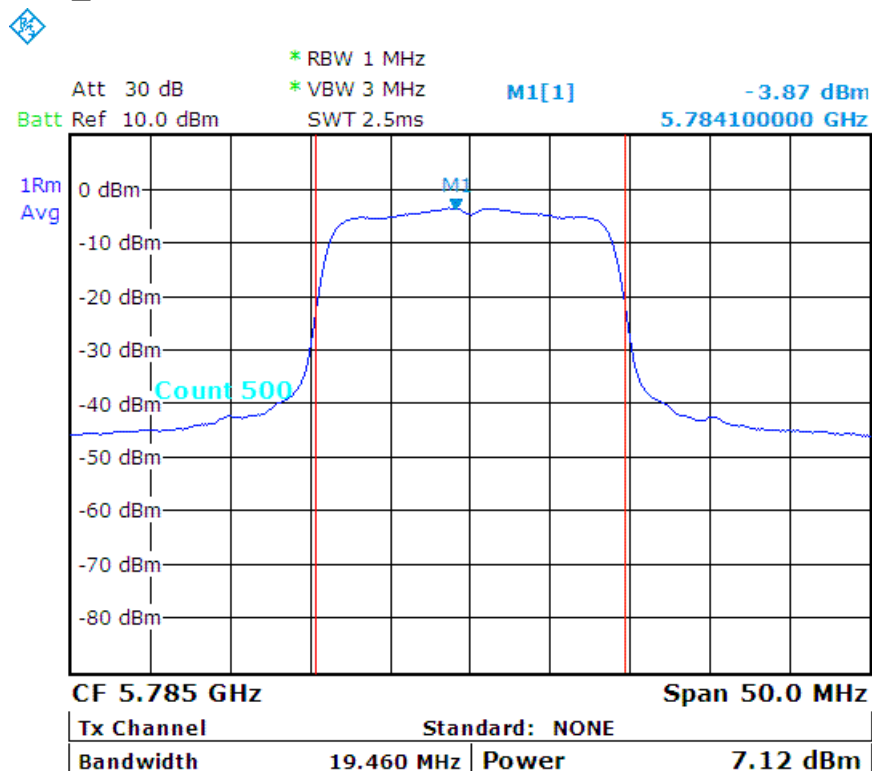
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 326 of 420
Date: Dec. 28, 2017

n - HT20_CH149_ANT2 :



n - HT20_CH157_ANT1 :





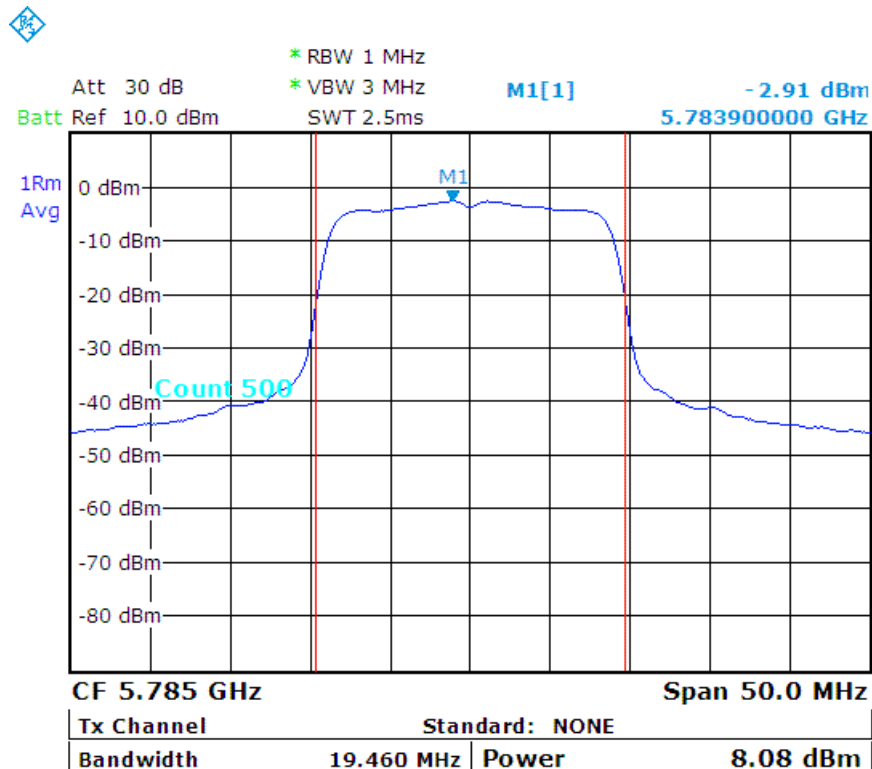
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

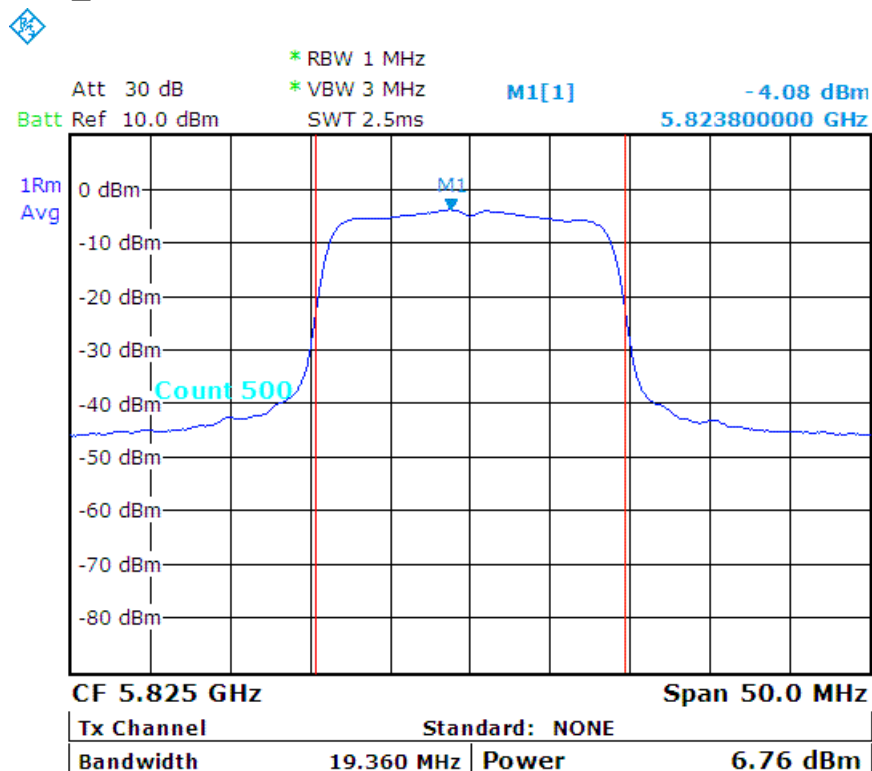
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 327 of 420
Date: Dec. 28, 2017

n - HT20_CH157_ANT2 :



n - HT20_CH165_ANT1 :





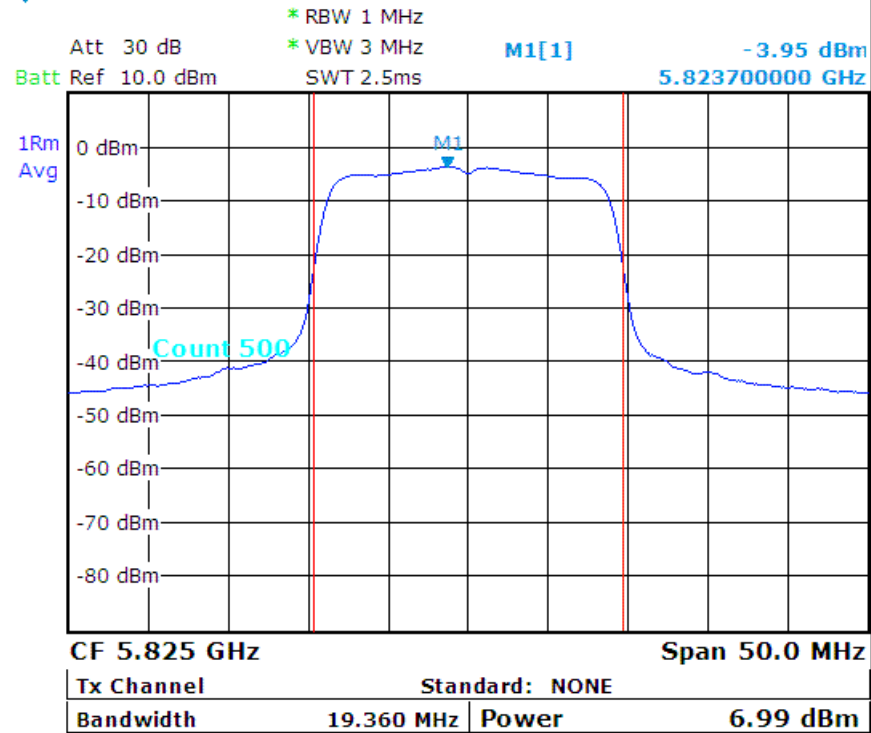
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 328 of 420
Date: Dec. 28, 2017

n - HT20_CH165_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

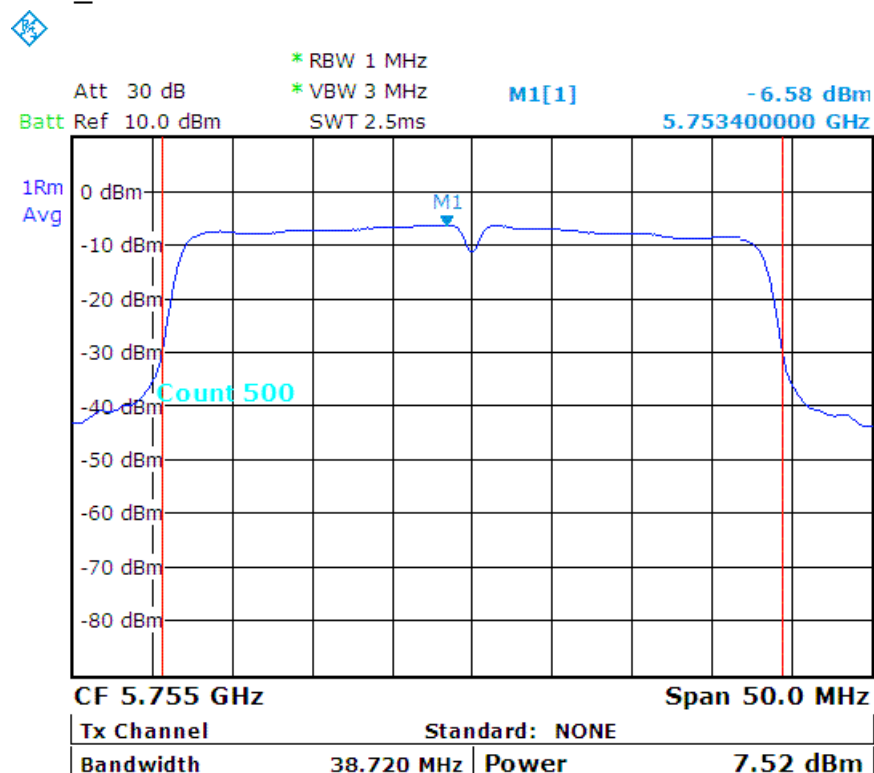
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 329 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.8G_802.11n - HT40
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH151_ANT1	5755	38.72	7.52	11.03	12.66	30
CH151_ANT2			8.46			
CH159_ANT1	5795	38.92	7.15	10.62	11.53	30
CH159_ANT2			8.02			

n - HT40_CH151_ANT1 :





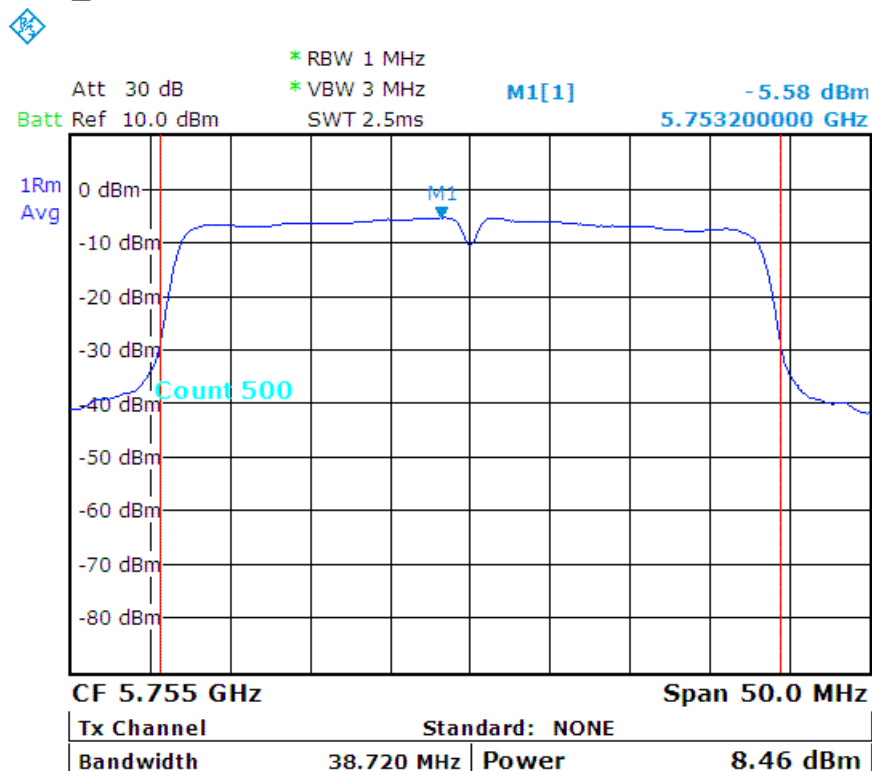
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

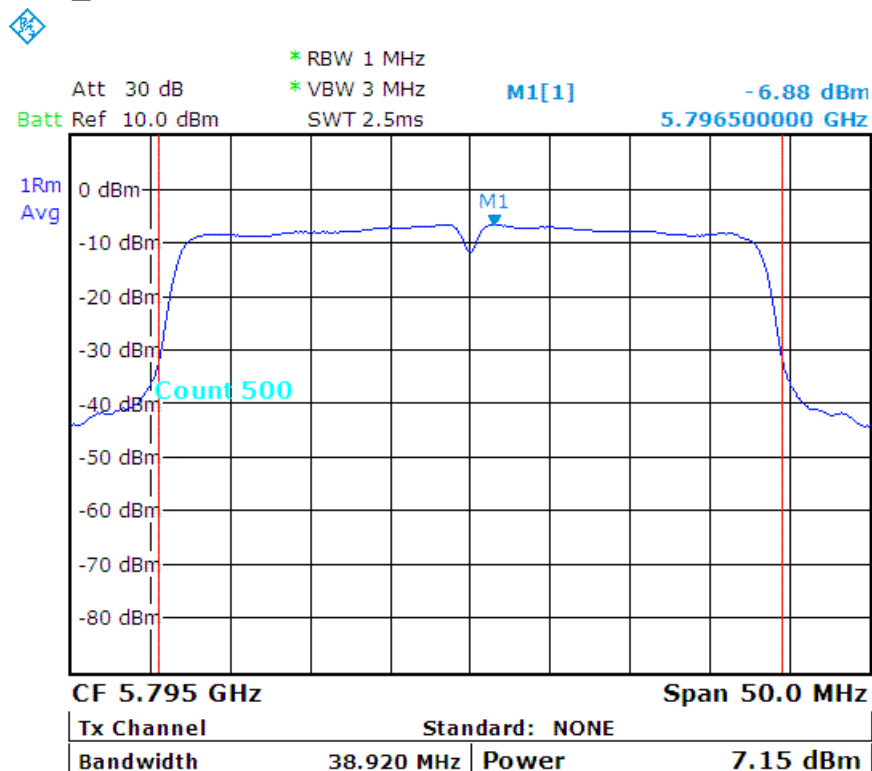
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 330 of 420
Date: Dec. 28, 2017

n - HT40_CH151_ANT2 :



n - HT40_CH159_ANT1 :





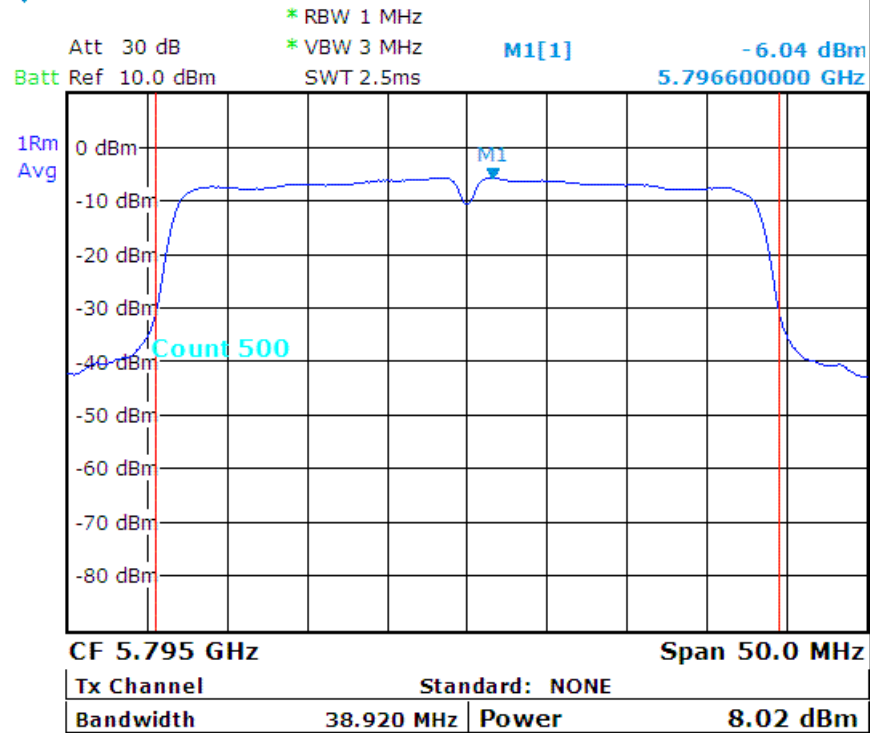
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 331 of 420
Date: Dec. 28, 2017

n - HT40_CH159_ANT2 :



**Spectrum Research & Testing Lab., Inc.**

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

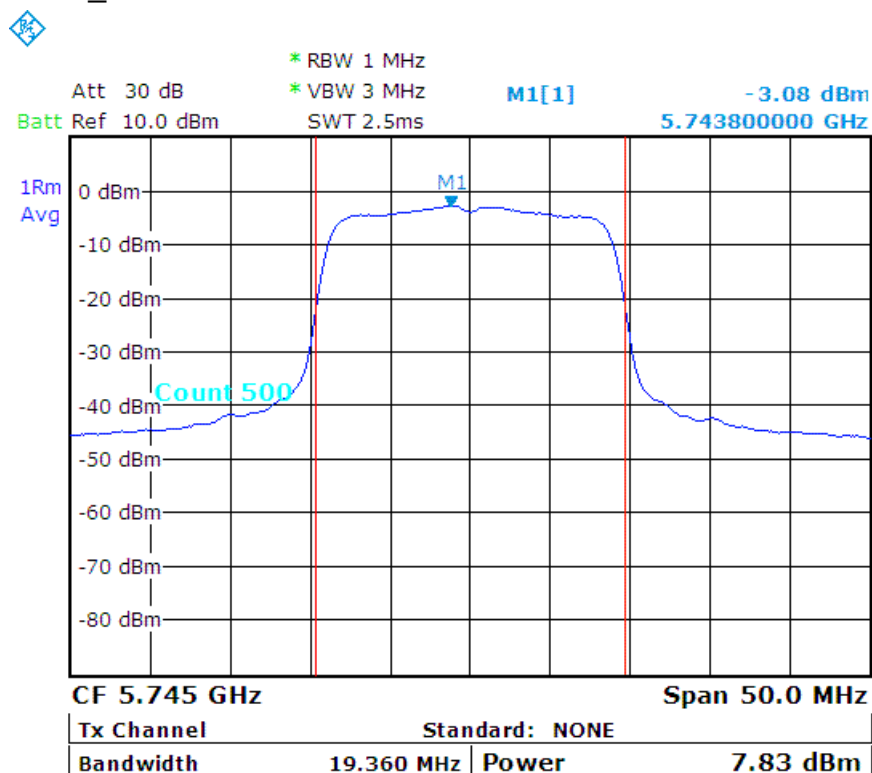
TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 332 of 420
Date: Dec. 28, 2017

Temperature:	20 °C	Humidity:	54 %RH
Detector:	RMS	Test Mode:	5.8G_802.11ac - HT20
RBW:	1 MHz	VBW:	3 MHz
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

Channel Number	Channel Frequency (MHz)	Emission Bandwidth (MHz)	Peak Conducted Output Power			Limit (dBm)
			Measure (dBm)	Final (dBm)	Final (mW)	
CH149_ANT1	5745	19.36	7.83	11.33	13.58	30
CH149_ANT2			8.76			
CH157_ANT1	5785	19.46	7.11	10.60	11.48	30
CH157_ANT2			8.02			
CH165_ANT1	5825	19.36	6.75	10.07	10.16	30
CH165_ANT1			7.35			

ac - HT20_CH149_ANT1 :





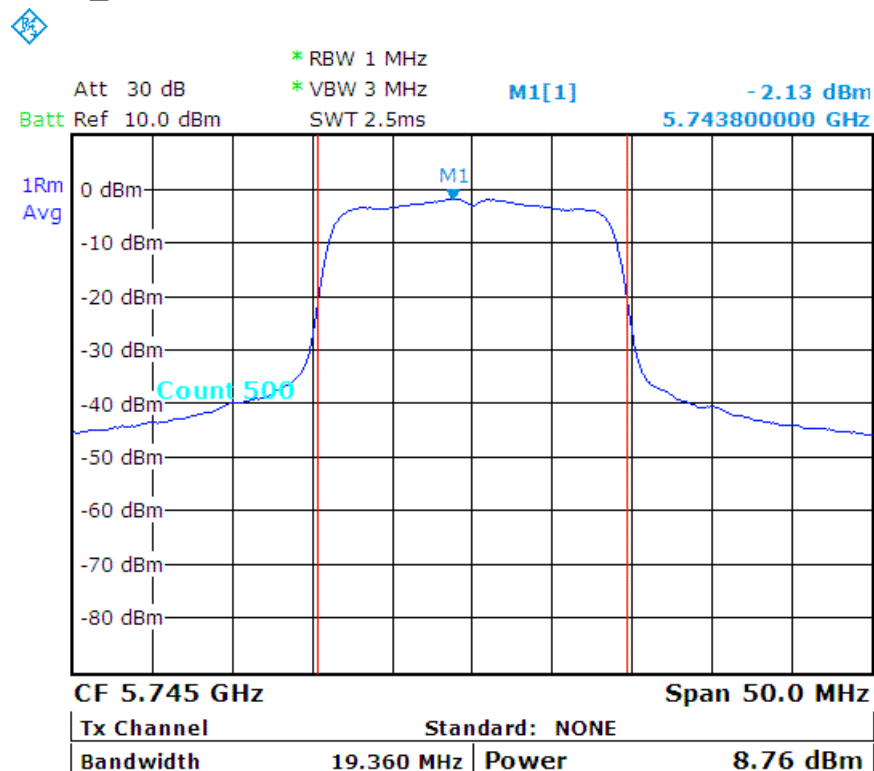
Spectrum Research & Testing Lab., Inc.

No.167, Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A17103001
Report No.: FCCA17103001-03
FCC ID : AHL-ALMOND3S
Page: 333 of 420
Date: Dec. 28, 2017

ac - HT20_CH149_ANT2 :



ac - HT20_CH157_ANT1 :

