



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 1 of 364

TEST REPORT

Application No.: KSCR2408001622AT
FCC ID: 2ASCB-DH032TLB
Name of Testing Laboratory preparing the Report: Compliance Certification Services (Kunshan) Inc.
Address of Testing Laboratory preparing the Report: No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Applicant: D2G Group LLC
Address of Applicant: 81 Commerce Drive Fall River, MA 02720 USA
Manufacturer: D2G Group LLC
Address of Manufacturer: 81 Commerce Drive Fall River, MA 02720 USA
Factory: Zhejiang Uniview System Technology Co., Ltd.
Address of Factory: No.1277 Qingfeng South Road (South), Tongxiang Economic Development Zone, Tongxiang City, Jiaxing City, 314500, Zhejiang, China
Equipment Under Test (EUT):
EUT Name: Digital Signage
Model No.: DH032TLB, DH032NLB ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-08-23
Date of Test: 2024-08-25 to 2024-10-12
Date of Issue: 2024-10-12

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Compliance Certification Services (Kunshan) Inc.

Revision Record			
Version	Description	Date	Remark
00	Original	2024-10-12	/

Authorized for issue by:				
Tested By		Maker Qi		
		Maker Qi /Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 3 of 364

2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	Test Lab*
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Customer Declaration	N/A
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass	N/A

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	Test Lab*
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass	B
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass	A
99% Bandwidth		KDB 789033 II D	N/A	Pass	A
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass	A
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass	A
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 4 of 364

Note: There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Only the model DH032TLB was tested since their differences were the model number and appearance.



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 5 of 364

3 Contents

	Page
1 COVER PAGE	1
2 Test Summary	3
3 Contents	5
4 General Information	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units	7
4.3 Power level setting using in test	8
4.4 Measurement Uncertainty	9
4.5 Test Location	10
4.6 Test Facility	11
4.7 Deviation from Standards	11
4.8 Abnormalities from Standard Conditions	11
5 Equipment List	12
6 Radio Spectrum Technical Requirement	14
6.1 Antenna Requirement	14
6.2 Transmission in the Absence of Data	15
7 Radio Spectrum Matter Test Results	16
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	16
7.2 Maximum Conducted output power	20
7.3 Radiated Emissions (Below 1GHz)	22
7.4 Radiated Emissions (Above 1GHz)	27
7.5 Radiated Emissions which fall in the restricted bands	120
7.6 Duty Cycle	203
7.7 99% Bandwidth	205
7.8 26dB Emission bandwidth	207
7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band)	209
7.10 Peak Power spectrum density	210
7.11 Frequency Stability	212
7.12 Channel Move Time	214
7.13 Channel Closing Transmission Time	216
7.14 Non-occupancy period	218



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 6 of 364

8 **Test Setup Photo220**

9 **EUT Constructional Details (EUT Photos)220**

10 **Appendix221**



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 7 of 364

4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V/60Hz
Test voltage:	AC 120V/60Hz
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
Router	HAWEI	AX5400	/



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 8 of 364

4.3 Power level setting using in test

Channel	802.11a	802.11ac(VHT20)	802.11ax(HE20)
	Ant 1	Ant 1	Ant 1
36	15	16	18
40	16	18	17
48	16	17	17
52	16	17	16
60	15	16	15
64	15	16	17
149	16	15	19
157	16	18	17
165	17	17	16
Channel	802.11ac(VHT40)	802.11ax(HE40)	
	Ant 1	Ant 1	
38	16	17	
46	17	18	
54	17	18	
62	19	18	
151	20	20	
159	19	19	
Channel	802.11ac(VHT80)	802.11ax(HE80)	
	Ant 1	Ant 1	
42	19	20	
58	17	19	
155	20	19	



Compliance Certification Services (Kunshan) Inc.

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 10 of 364

4.5 Test Location

Lab A:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

Lab B:

Conducted Emissions at AC Power Line (150kHz-30MHz); Radiated Emissions; Radiated Emissions which fall in the restricted bands test at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 11 of 364

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

Lab B:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 12 of 364

5 Equipment List

Lab A:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/24/2024	08/23/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/24/2024	08/23/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/24/2024	08/23/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/24/2024	08/23/2025
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/24/2024	08/23/2025
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/24/2024	08/23/2025
10	Switcher	TST	FY562	KUS2001M001-4	01/15/2024	01/14/2025
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/15/2024	01/14/2025
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/24/2024	08/23/2025
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
16	Software	BST	TST-PASS	/	NCR	NCR



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 13 of 364

Lab B:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/8/2024	2/7/2025
3	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025
4	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025
5	Measurement Software	Tonscend	JS32-CE	SUWI-02-09-05	NCR	NCR
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	6/3/2023	6/2/2026
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2/8/2024	2/7/2025
3	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
4	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	11/21/2023	11/20/2024
5	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/25/2023	11/24/2024
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	11/25/2023	11/24/2024
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025
13	Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR
14	Measurement Software	Tonscend	JS32-RSE	SUWI-02-09-06	NCR	NCR



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 14 of 364

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Dipole antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to internal photo.



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 15 of 364

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 16 of 364

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

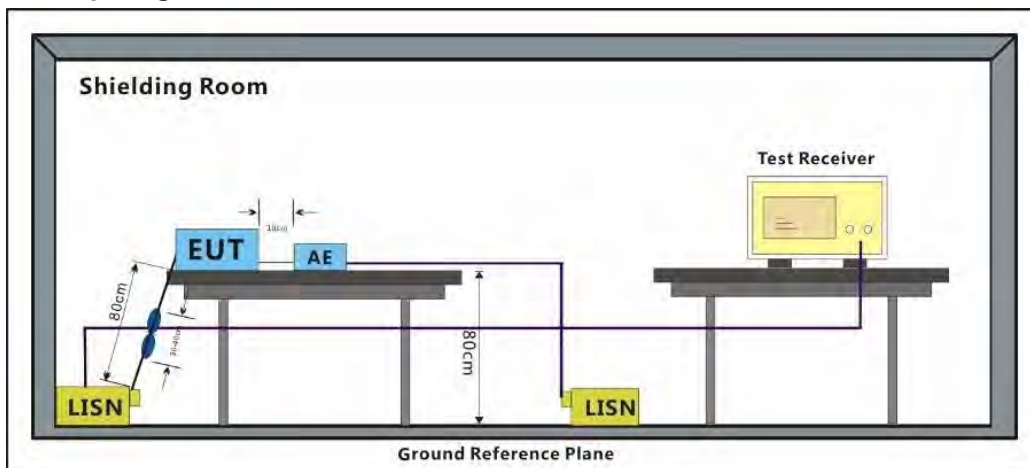
Humidity: 43.0 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



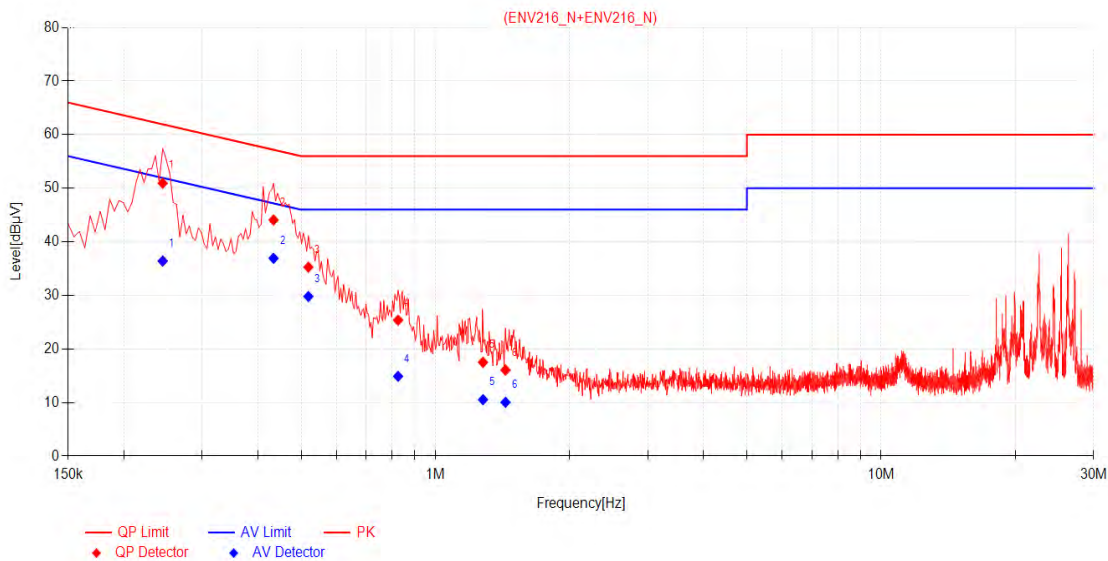
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 50\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$



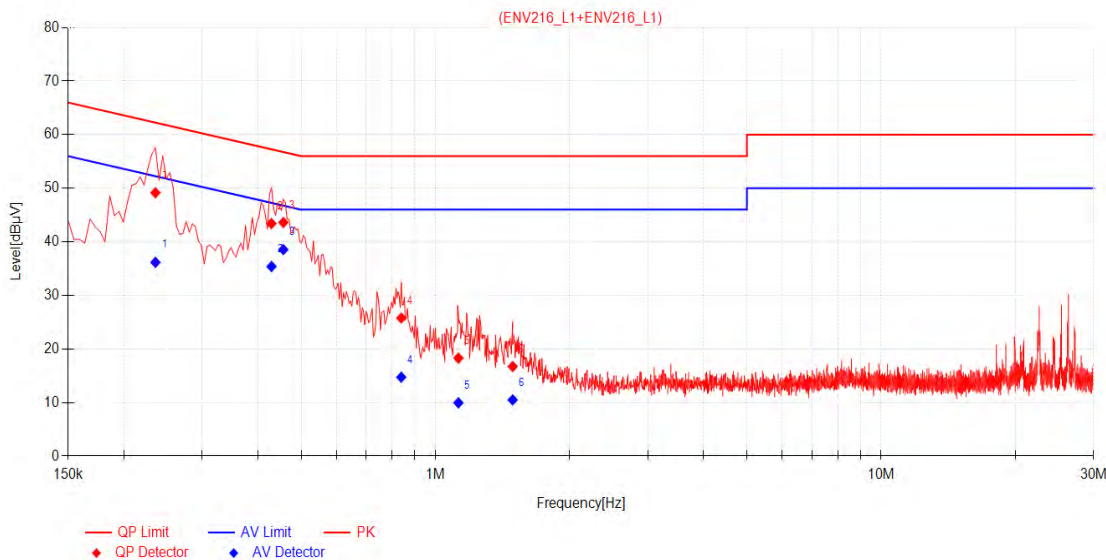
Compliance Certification Services (Kunshan) Inc.



NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2445	10.16	40.78	50.94	61.94	11.00	26.25	36.41	51.94	15.53	PASS
2	0.4335	10.16	33.92	44.08	57.19	13.11	26.77	36.93	47.19	10.26	PASS
3	0.5190	10.17	25.11	35.28	56.00	20.72	19.63	29.80	46.00	16.20	PASS
4	0.8250	10.15	15.23	25.38	56.00	30.62	4.75	14.90	46.00	31.10	PASS
5	1.2795	10.10	7.41	17.51	56.00	38.49	0.44	10.54	46.00	35.46	PASS
6	1.4370	10.12	5.94	16.06	56.00	39.94	-0.07	10.05	46.00	35.95	PASS



Compliance Certification Services (Kunshan) Inc.



NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2355	10.16	39.01	49.17	62.25	13.08	26.01	36.17	52.25	16.08	PASS
2	0.4290	10.17	33.24	43.41	57.27	13.86	25.23	35.40	47.27	11.87	PASS
3	0.4560	10.17	33.45	43.62	56.77	13.15	28.38	38.55	46.77	8.22	PASS
4	0.8385	10.14	15.64	25.78	56.00	30.22	4.59	14.73	46.00	31.27	PASS
5	1.1265	10.08	8.22	18.30	56.00	37.70	-0.13	9.95	46.00	36.05	PASS
6	1.4910	10.08	6.65	16.73	56.00	39.27	0.41	10.49	46.00	35.51	PASS

7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

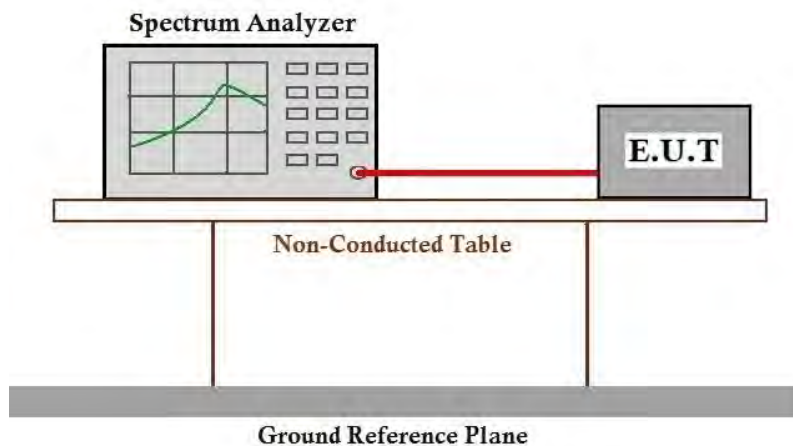
Humidity: 43.0 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 22 of 364

7.3 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

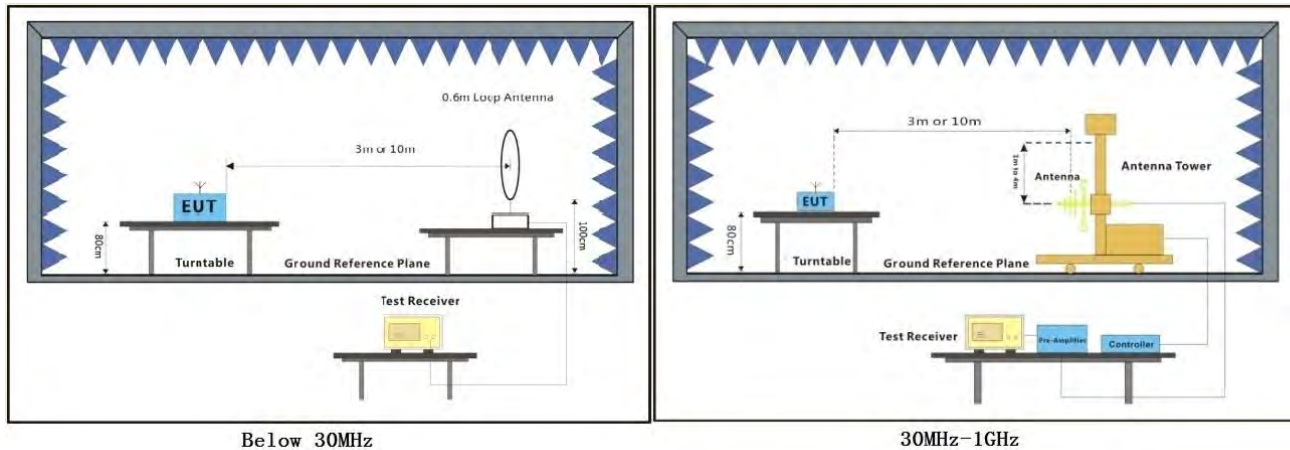
Humidity: 46 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 24 of 364

7.3.4 Measurement Procedure and Data

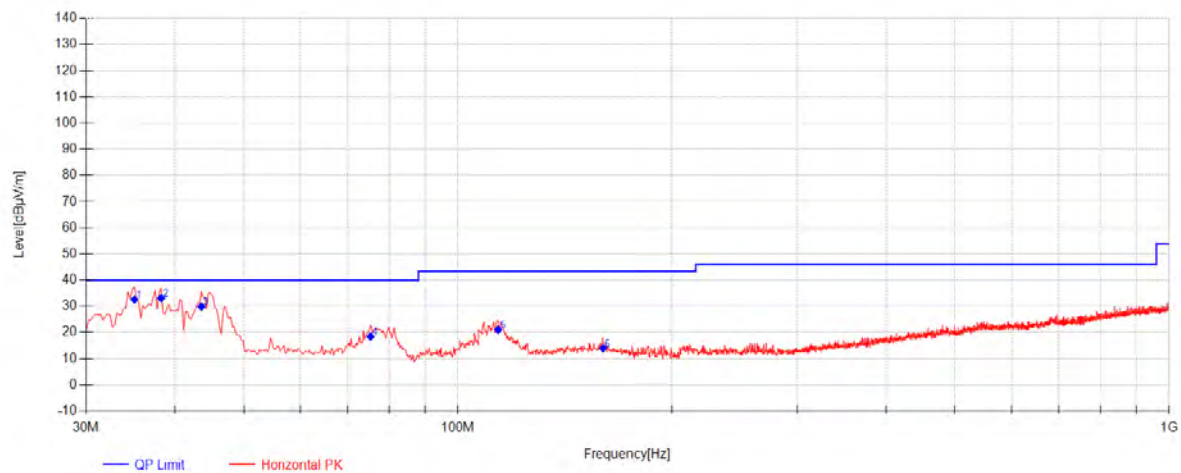
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Compliance Certification Services (Kunshan) Inc.

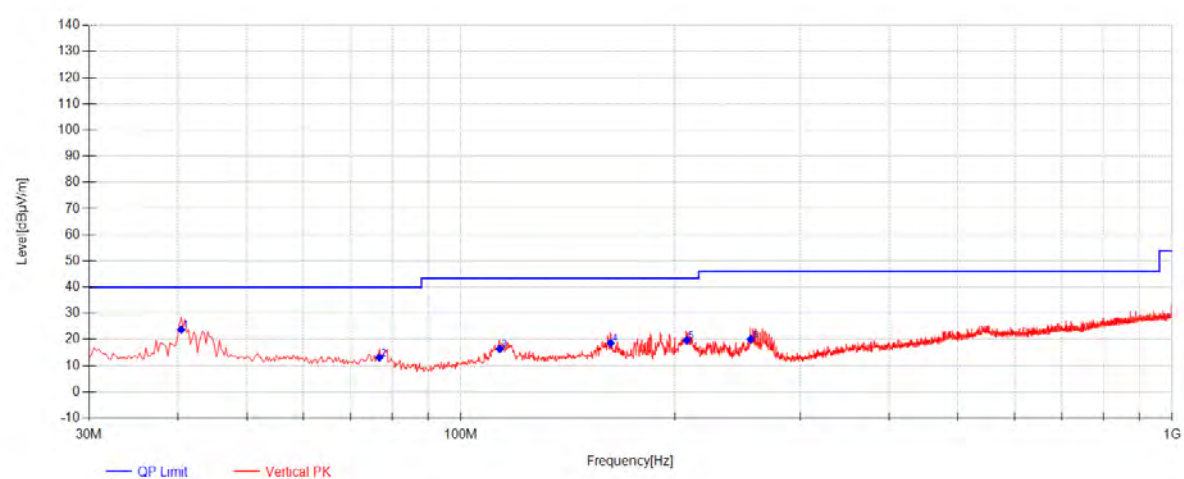


Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.0925	56.24	-42.36	18.72	32.60	40.00	7.40	Horizontal
2	38.245	56.20	-42.33	19.28	33.15	40.00	6.85	Horizontal
3	43.58	52.87	-42.34	19.35	29.88	40.00	10.12	Horizontal
4	75.3475	44.13	-41.95	16.29	18.47	40.00	21.53	Horizontal
5	113.905	46.08	-41.77	16.67	20.98	43.50	22.52	Horizontal
6	159.98	36.29	-40.79	18.50	14.00	43.50	29.50	Horizontal



Compliance Certification Services (Kunshan) Inc.

11ac40_Channel 46



Final Data List								
NO	Frequen cy [MHz]]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	40.4275	46.53	-42.32	19.57	23.78	40.00	16.22	Vertical
2	76.8025	38.96	-41.91	16.04	13.09	40.00	26.91	Vertical
3	113.42	41.57	-41.77	16.64	16.44	43.50	27.06	Vertical
4	162.405	41.22	-40.82	18.28	18.68	43.50	24.82	Vertical
5	207.752	45.16	-40.98	15.51	19.69	43.50	23.81	Vertical
6	255.525	43.17	-40.42	17.29	20.04	46.00	25.96	Vertical



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 27 of 364

7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.		
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.		
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.		
(4) For transmitters operating in the 5.725-5.85 GHz band:		
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

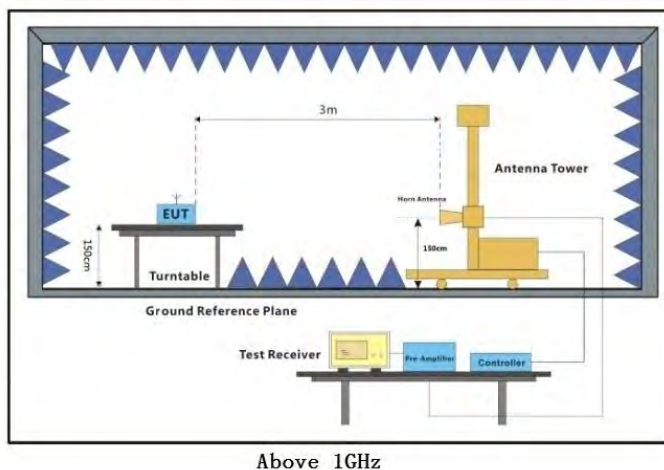
Humidity: 46 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 29 of 364

7.4.4 Measurement Procedure and Data

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

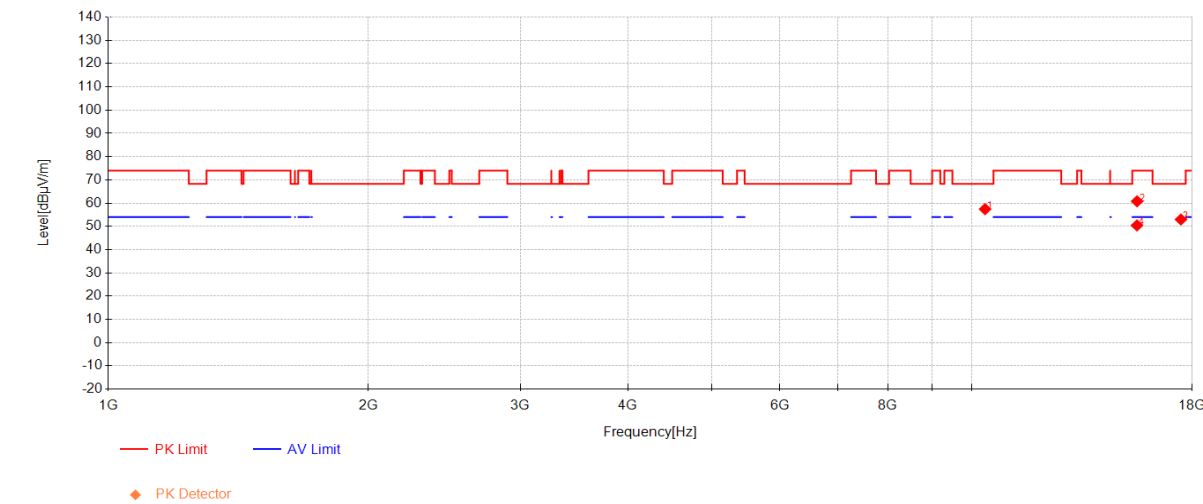
Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. Average Measurements Above 1000MHz, $\text{VBW} = 10 \text{ Hz}$ (when duty cycle is no less than 98 percent). $\text{VBW} \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

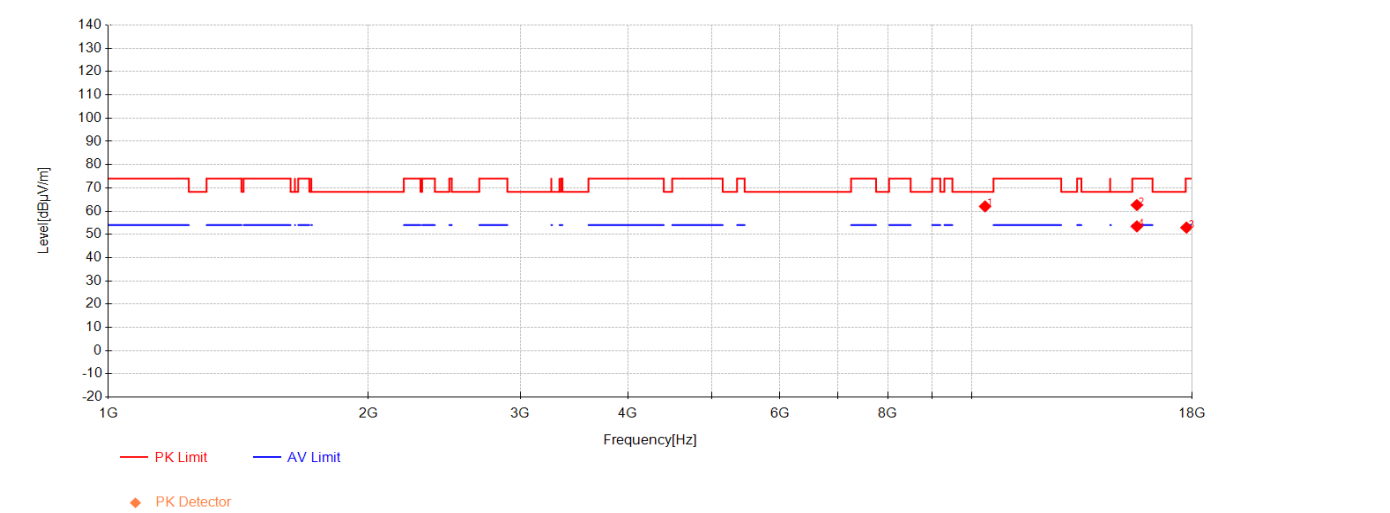


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10365.833	50.76	38.08	-31.44	57.41	68.30	10.89	Horizontal
2	15546.25	49.30	39.06	-27.57	60.79	74.00	13.21	Horizontal
3	17474.583	37.10	40.04	-24.17	52.97	68.30	15.33	Horizontal
4	15542.083	38.93	39.07	-27.58	50.42	54.00	3.58	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

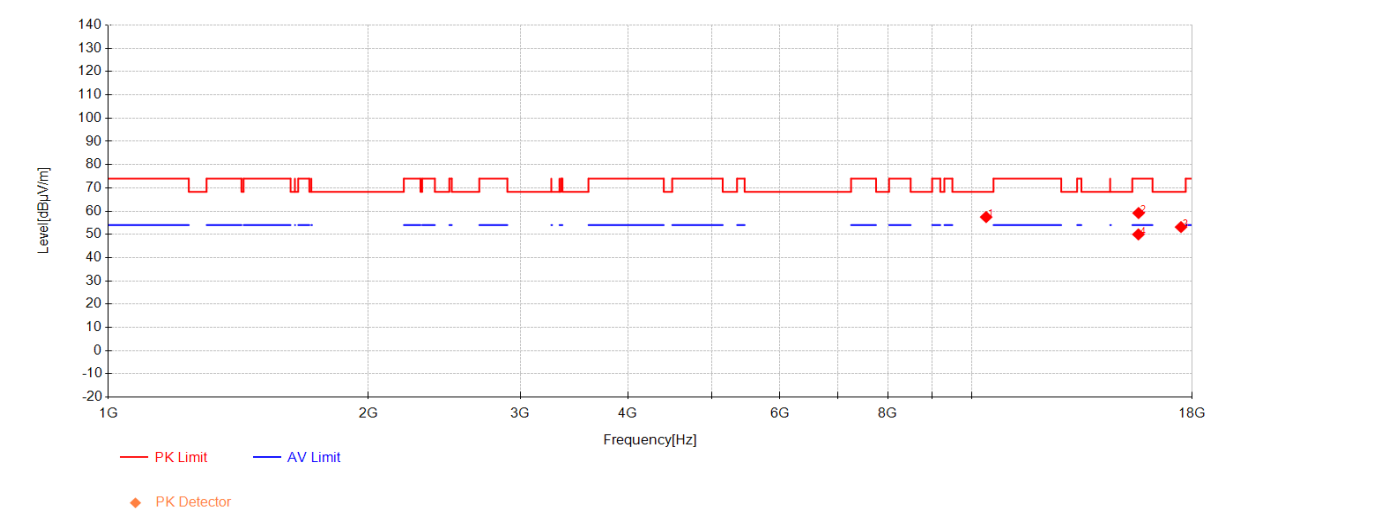


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10365.416	55.39	38.08	-31.44	62.03	68.30	6.27	Vertical
2	15538.75	51.13	39.08	-27.58	62.62	74.00	11.38	Vertical
3	17735	36.71	40.66	-24.45	52.92	74.00	21.08	Vertical
4	15536.25	41.95	39.08	-27.59	53.44	54.00	0.56	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 40

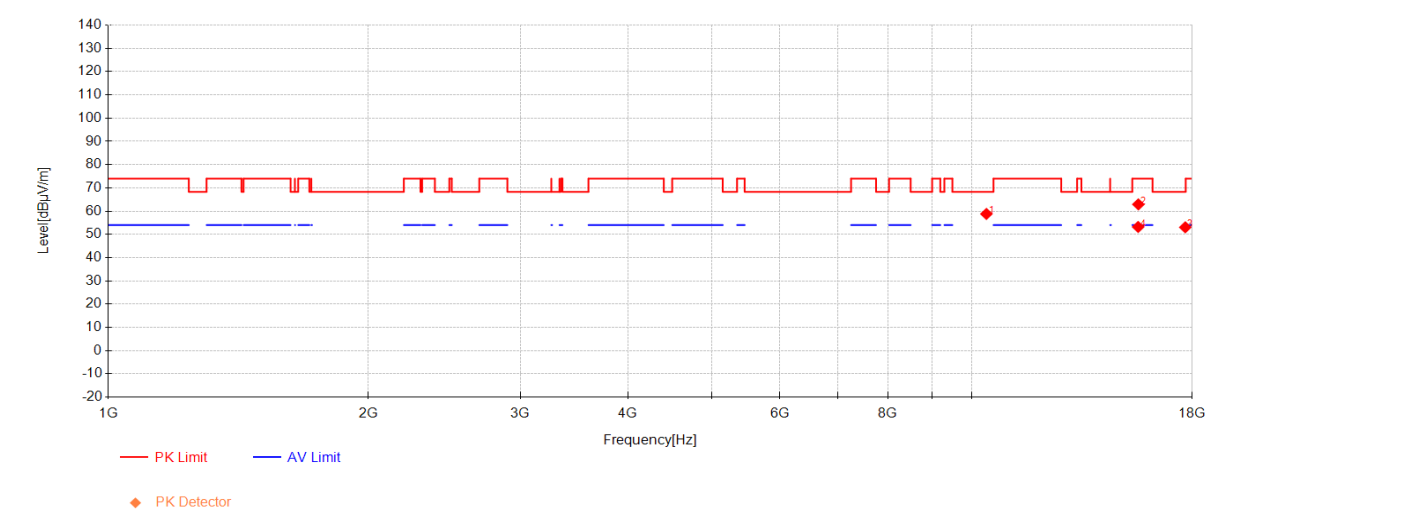


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10394.583	50.55	38.10	-31.20	57.44	68.30	10.86	Horizontal
2	15610.416	47.75	38.94	-27.50	59.19	74.00	14.81	Horizontal
3	17480	37.19	40.05	-24.10	53.15	68.30	15.15	Horizontal
4	15602.083	38.48	38.96	-27.46	49.98	54.00	4.02	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 40

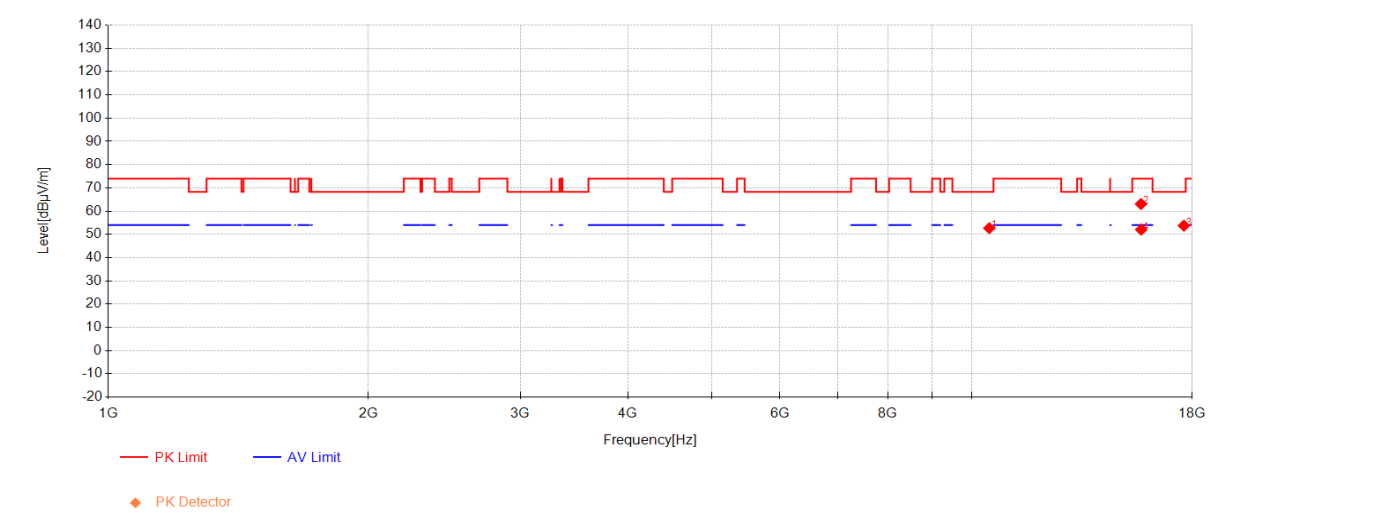


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10402.5	51.85	38.10	-31.16	58.79	68.30	9.51	Vertical
2	15600	51.40	38.96	-27.45	62.91	74.00	11.09	Vertical
3	17680.833	36.66	40.53	-24.14	53.05	68.30	15.25	Vertical
4	15590.833	41.69	38.98	-27.47	53.20	54.00	0.80	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 48

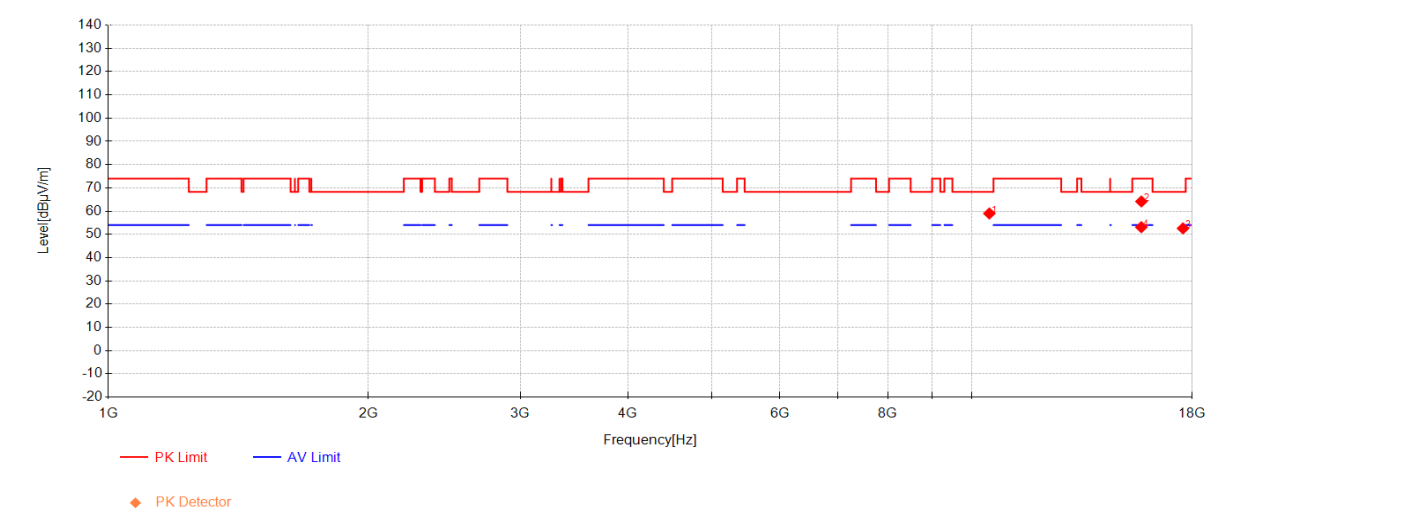


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10482.916	45.57	38.14	-31.05	52.66	68.30	15.64	Horizontal
2	15709.166	52.18	38.75	-27.87	63.07	74.00	10.93	Horizontal
3	17613.75	37.49	40.37	-24.11	53.76	68.30	14.54	Horizontal
4	15720.416	41.10	38.73	-27.77	52.06	54.00	1.94	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 48

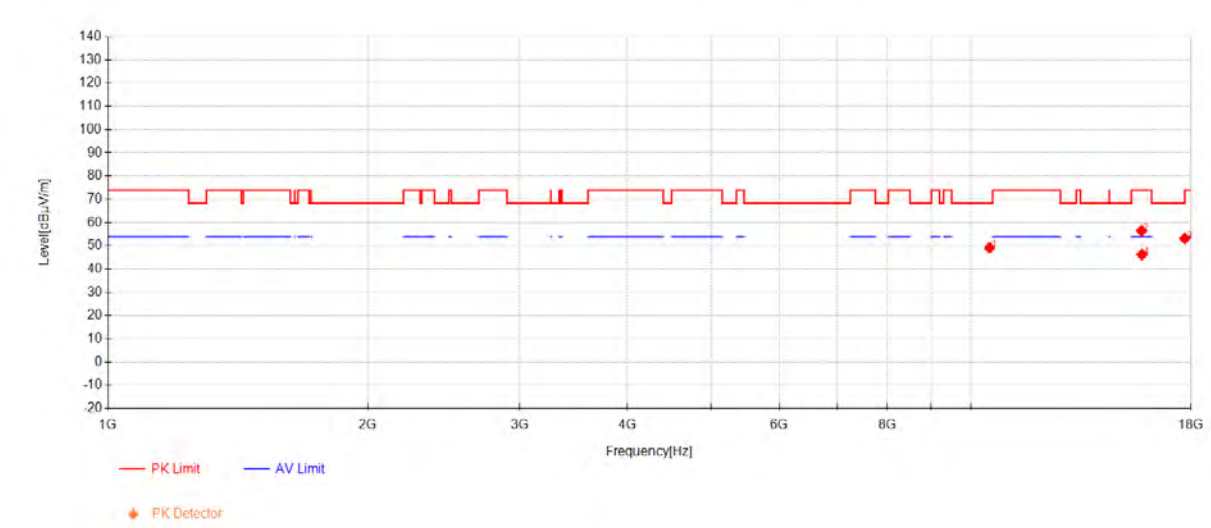


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10484.166	51.89	38.14	-31.05	58.98	68.30	9.32	Vertical
2	15726.666	53.14	38.72	-27.71	64.15	74.00	9.85	Vertical
3	17574.166	36.33	40.28	-24.03	52.58	68.30	15.72	Vertical
4	15723.75	42.12	38.72	-27.74	53.11	54.00	0.89	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 52

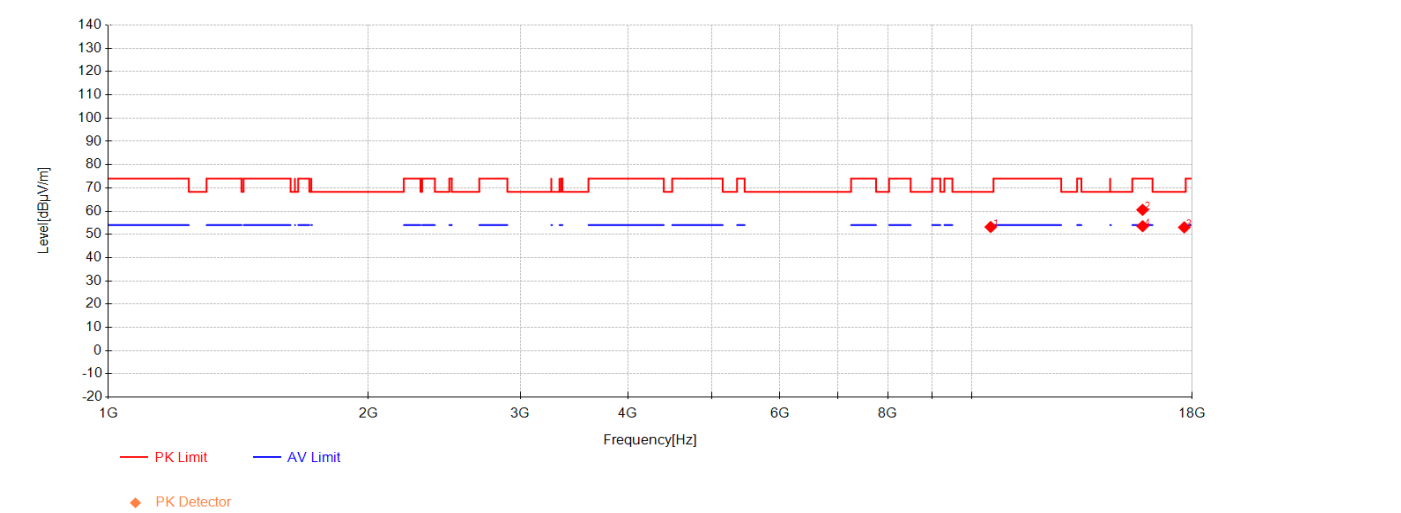


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10512.083	41.99	38.16	-31.05	49.10	68.30	19.20	Horizontal
2	15772.083	45.11	38.63	-27.30	56.44	74.00	17.56	Horizontal
3	17701.666	36.72	40.58	-24.16	53.14	74.00	20.86	Horizontal
4	15788.333	34.76	38.60	-27.16	46.21	54.00	7.79	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 52

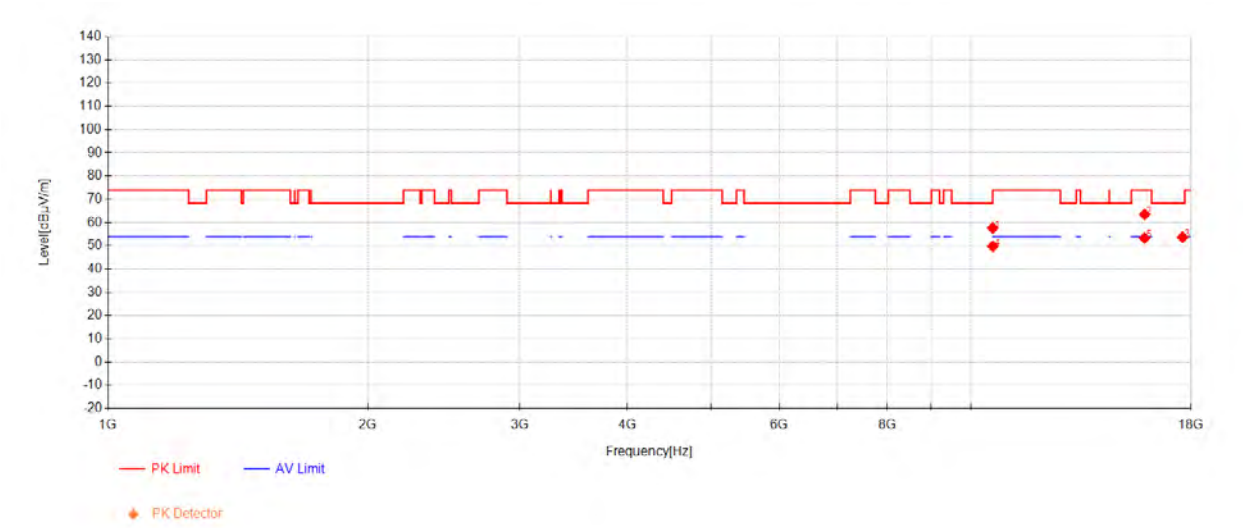


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10522.5	46.09	38.16	-31.07	53.18	68.30	15.12	Vertical
2	15776.666	49.21	38.62	-27.26	60.57	74.00	13.43	Vertical
3	17631.25	36.72	40.41	-24.12	53.02	68.30	15.28	Vertical
4	15780	42.12	38.62	-27.23	53.51	54.00	0.49	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 60

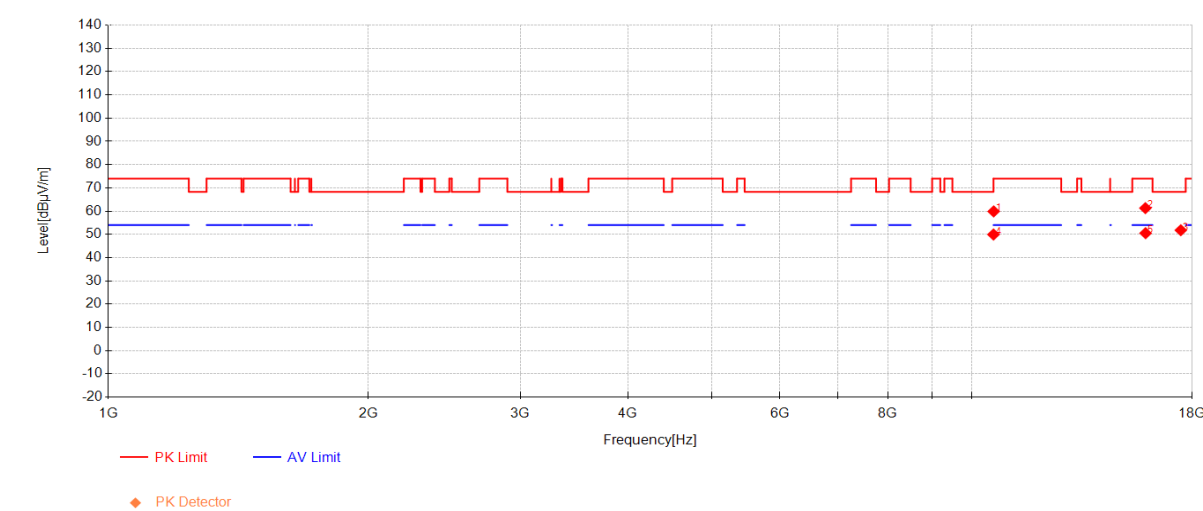


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10601.666	50.61	38.20	-31.19	57.63	74.00	16.37	Horizontal
2	15901.25	52.63	38.39	-27.48	63.54	74.00	10.46	Horizontal
3	17594.583	37.47	40.33	-24.09	53.71	68.30	14.59	Horizontal
4	10602.083	42.72	38.20	-31.18	49.74	54.00	4.26	Horizontal
5	15896.25	42.41	38.40	-27.46	53.34	54.00	0.66	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 60

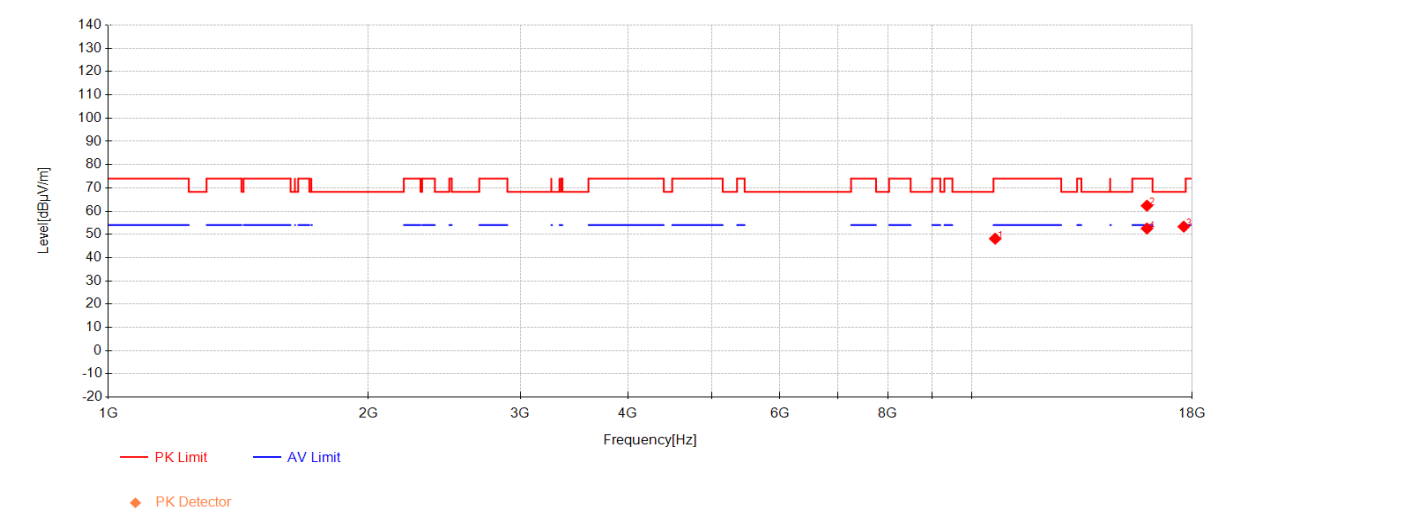


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10606.25	52.82	38.20	-31.14	59.88	74.00	14.12	Vertical
2	15895.833	50.36	38.40	-27.46	61.30	74.00	12.70	Vertical
3	17469.583	35.98	40.03	-24.23	51.78	68.30	16.52	Vertical
4	10600	42.94	38.20	-31.20	49.94	54.00	4.06	Vertical
5	15903.75	39.62	38.38	-27.48	50.52	54.00	3.48	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

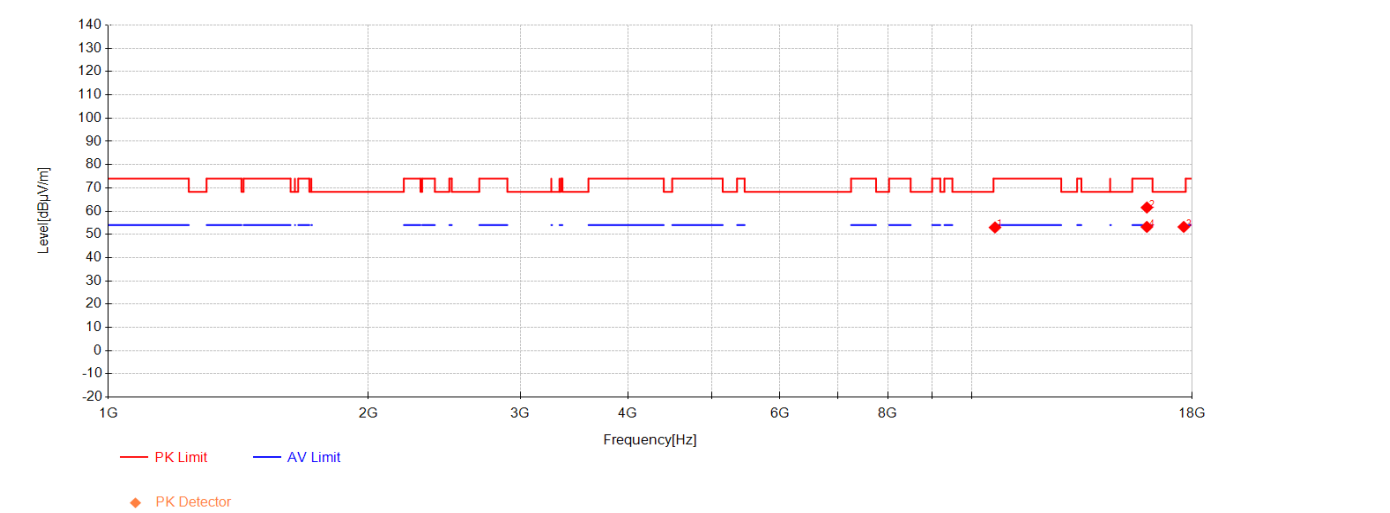


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10648.75	40.68	38.22	-30.76	48.14	74.00	25.86	Horizontal
2	15961.666	51.52	38.27	-27.45	62.34	74.00	11.66	Horizontal
3	17607.083	37.09	40.36	-24.10	53.34	68.30	14.96	Horizontal
4	15962.5	41.70	38.27	-27.45	52.52	54.00	1.48	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

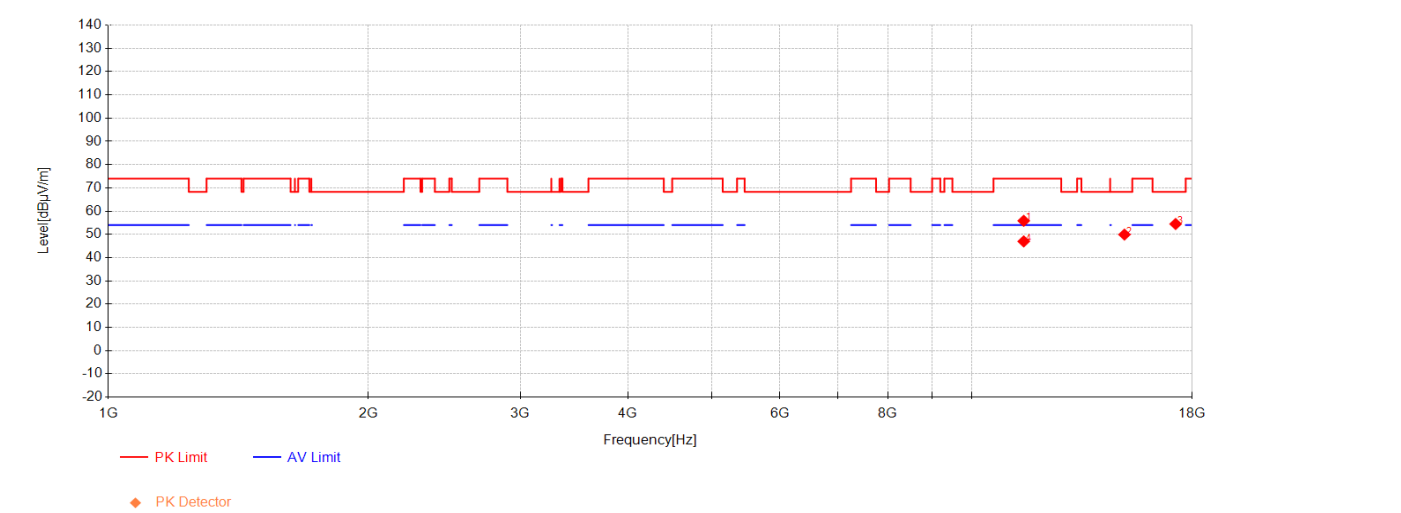


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10643.75	45.55	38.22	-30.81	52.97	74.00	21.03	Vertical
2	15959.583	50.72	38.28	-27.45	61.55	74.00	12.45	Vertical
3	17606.666	36.97	40.36	-24.10	53.22	68.30	15.08	Vertical
4	15957.916	42.37	38.28	-27.45	53.20	54.00	0.80	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 149

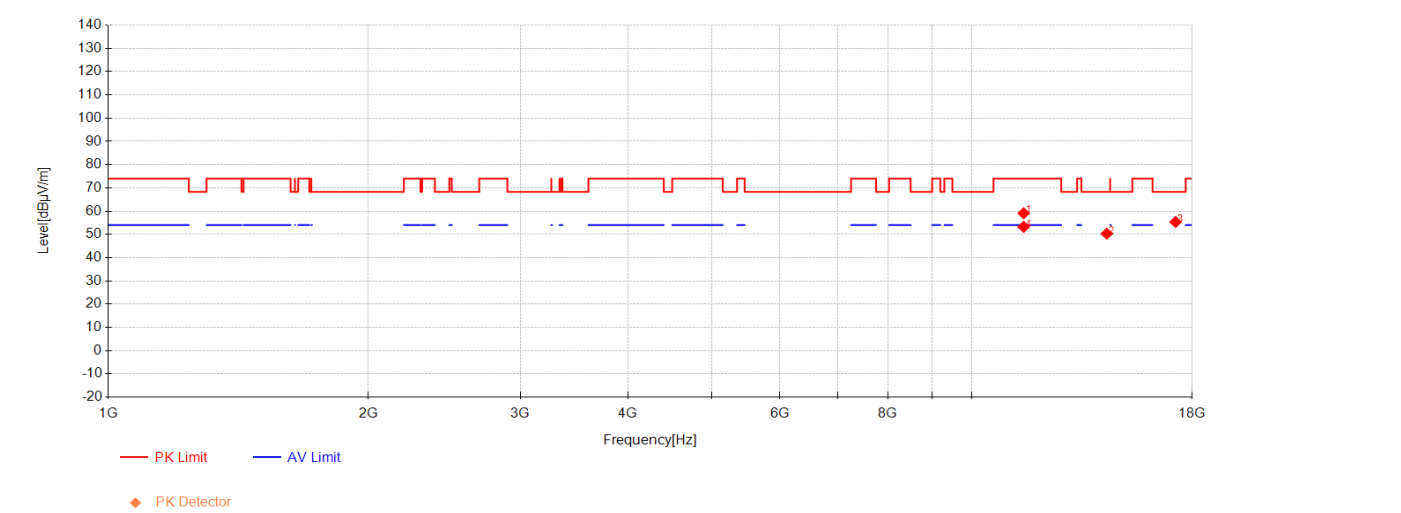


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11490.833	47.42	38.40	-29.98	55.84	74.00	18.16	Horizontal
2	15032.5	38.16	40.04	-28.29	49.91	68.30	18.39	Horizontal
3	17230	40.12	39.45	-25.11	54.47	68.30	13.83	Horizontal
4	11490.833	38.57	38.40	-29.98	46.99	54.00	7.01	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 149

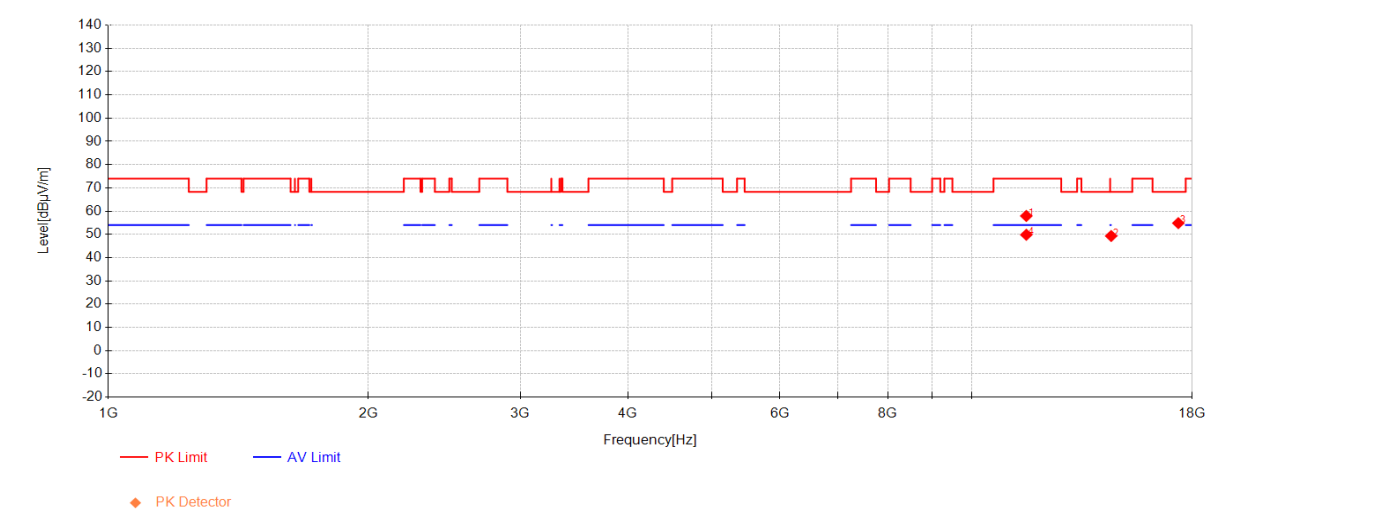


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11489.583	50.67	38.40	-29.98	59.09	74.00	14.91	Vertical
2	14340.416	39.07	40.23	-29.00	50.30	68.30	18.00	Vertical
3	17231.666	41.00	39.46	-25.12	55.33	68.30	12.97	Vertical
4	11488.75	44.82	38.40	-29.98	53.24	54.00	0.76	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 157

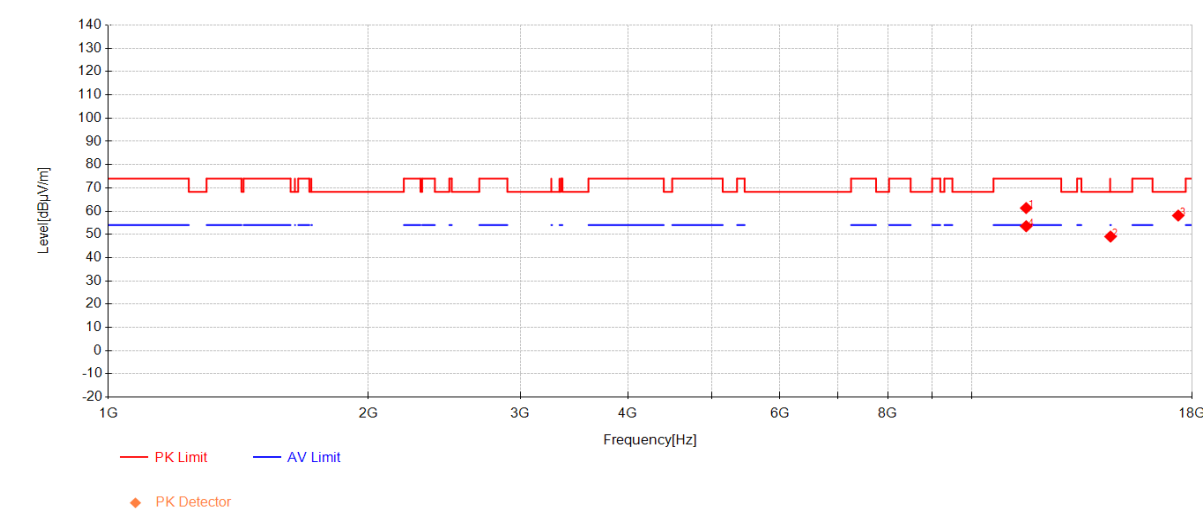


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11570	49.23	38.40	-29.71	57.92	74.00	16.08	Horizontal
2	14510	38.12	40.20	-29.01	49.30	68.30	19.00	Horizontal
3	17355	40.50	39.75	-25.43	54.83	68.30	13.47	Horizontal
4	11571.25	41.14	38.40	-29.71	49.83	54.00	4.17	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 157

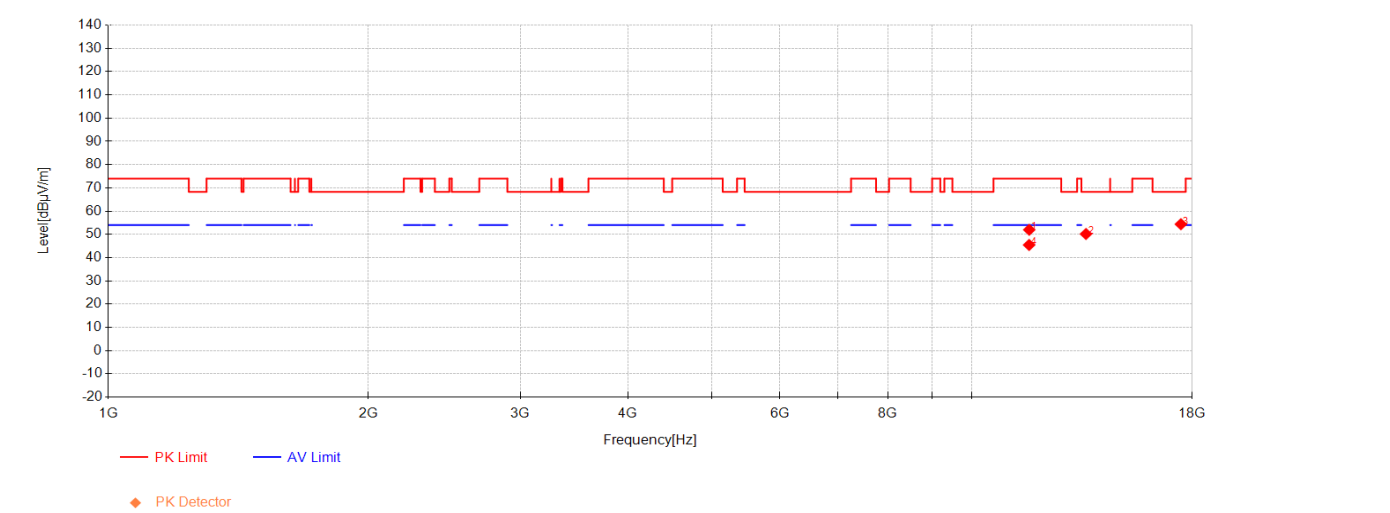


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11566.25	52.65	38.40	-29.73	61.32	74.00	12.68	Vertical
2	14482.5	37.77	40.20	-28.92	49.06	74.00	24.94	Vertical
3	17350.833	43.81	39.74	-25.45	58.10	68.30	10.20	Vertical
4	11566.666	44.83	38.40	-29.72	53.51	54.00	0.49	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 165

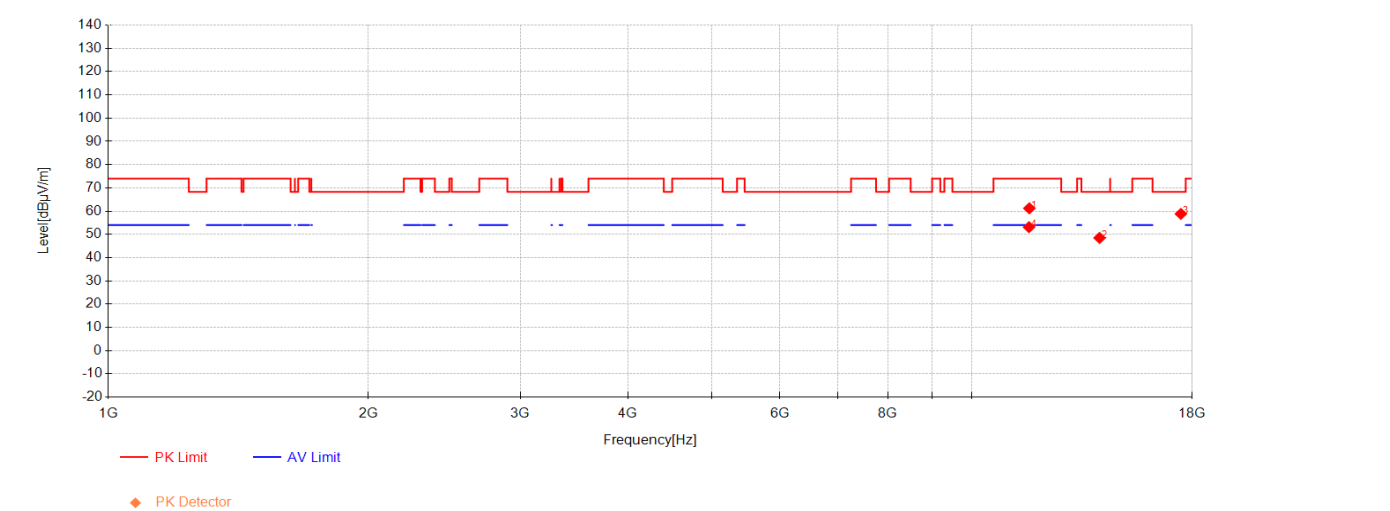


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11660.833	43.18	38.40	-29.60	51.98	74.00	22.02	Horizontal
2	13566.25	38.46	40.00	-28.29	50.17	68.30	18.13	Horizontal
3	17474.583	38.51	40.04	-24.17	54.38	68.30	13.92	Horizontal
4	11656.666	36.65	38.40	-29.60	45.45	54.00	8.55	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 165

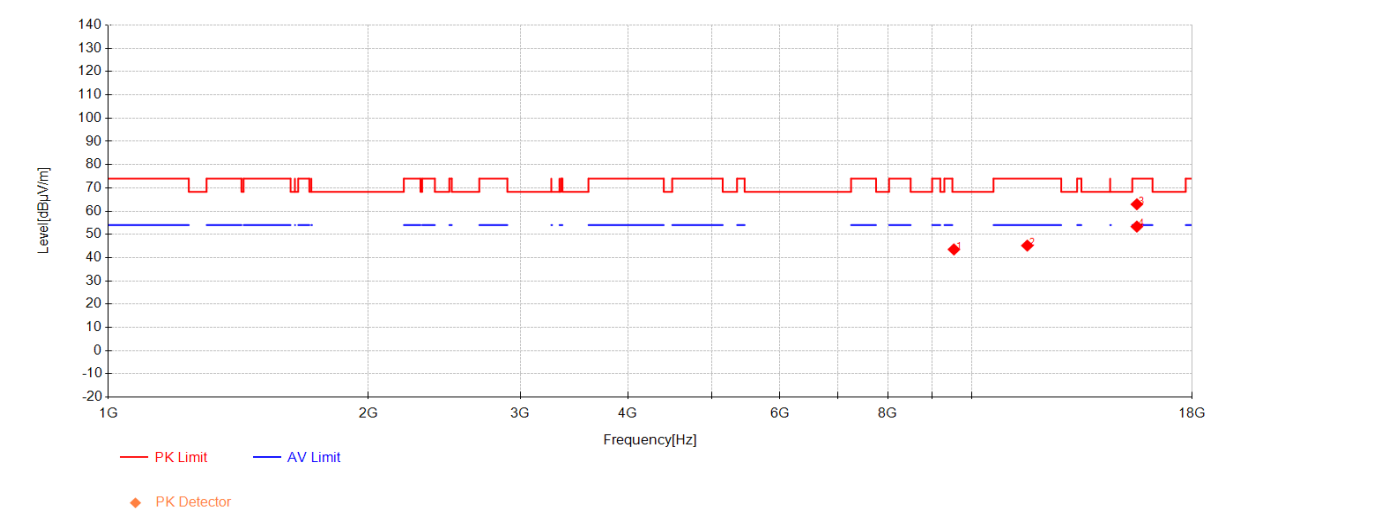


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11664.583	52.40	38.40	-29.60	61.20	74.00	12.80	Vertical
2	14065.416	37.42	40.29	-29.21	48.49	68.30	19.81	Vertical
3	17473.333	42.97	40.04	-24.18	58.82	68.30	9.48	Vertical
4	11655	44.31	38.40	-29.60	53.11	54.00	0.89	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 36

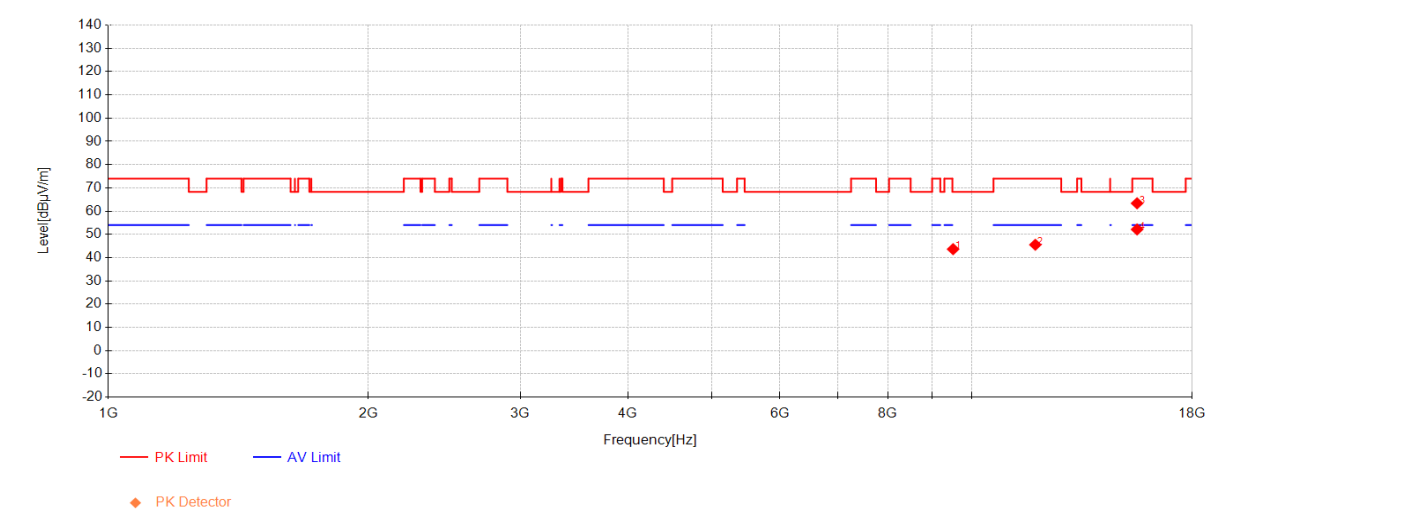


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	9539.1667	39.31	37.76	-33.55	43.52	68.30	24.78	Horizontal
2	11601.25	36.37	38.40	-29.59	45.18	74.00	28.82	Horizontal
3	15538.333	51.46	39.08	-27.59	62.95	74.00	11.05	Horizontal
4	15537.916	41.86	39.08	-27.59	53.35	54.00	0.65	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 36

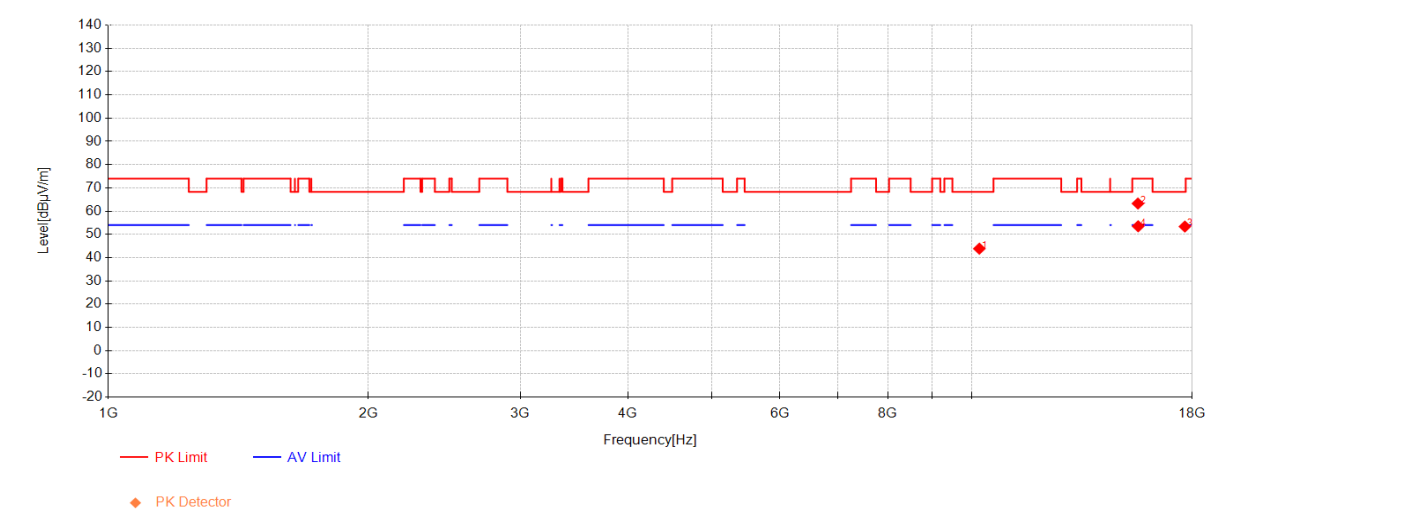


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	9518.3333	39.45	37.76	-33.55	43.65	68.30	24.65	Vertical
2	11852.916	36.60	38.40	-29.45	45.55	74.00	28.45	Vertical
3	15547.083	51.87	39.06	-27.57	63.36	74.00	10.64	Vertical
4	15547.5	40.64	39.06	-27.57	52.13	54.00	1.87	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 40

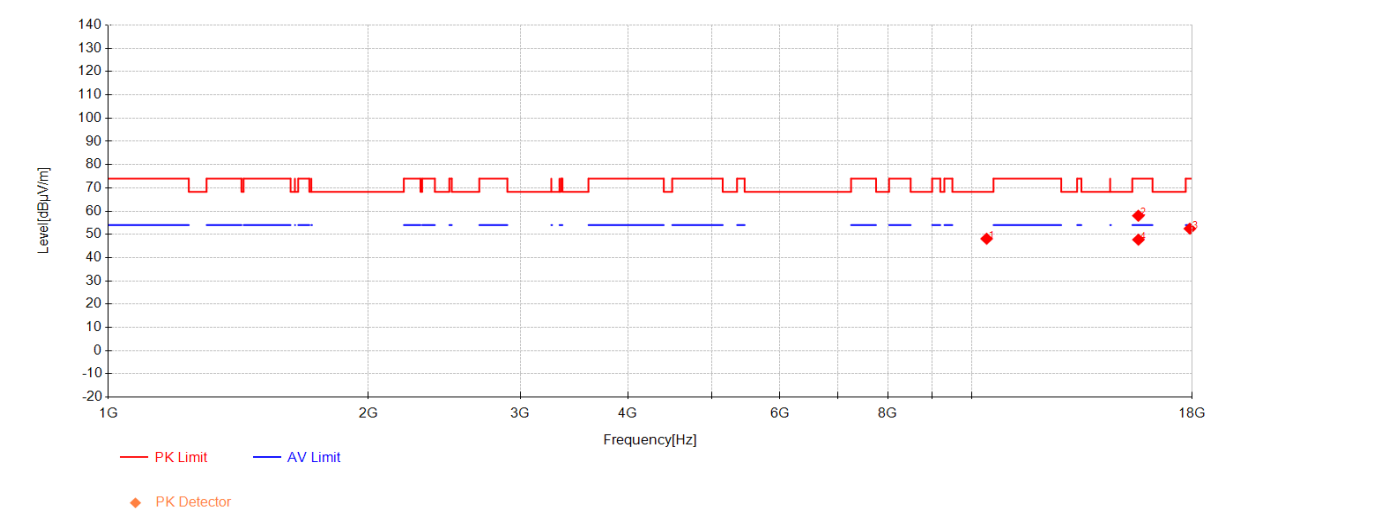


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10208.75	37.42	38.00	-31.57	43.86	68.30	24.44	Horizontal
2	15582.5	51.76	38.99	-27.49	63.26	74.00	10.74	Horizontal
3	17661.25	37.00	40.49	-24.13	53.36	68.30	14.94	Horizontal
4	15591.666	41.98	38.98	-27.47	53.49	54.00	0.51	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 40

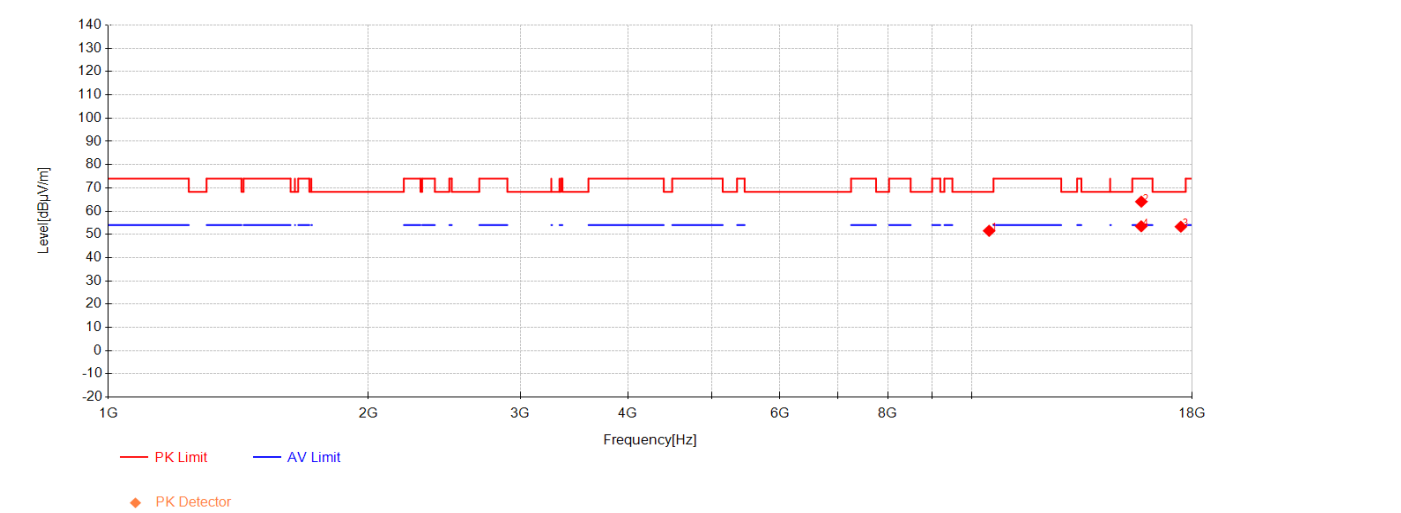


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10408.75	41.16	38.10	-31.15	48.12	68.30	20.18	Vertical
2	15599.583	46.52	38.96	-27.45	58.03	74.00	15.97	Vertical
3	17896.666	35.96	41.05	-24.57	52.45	74.00	21.55	Vertical
4	15605.416	36.26	38.95	-27.48	47.73	54.00	6.27	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 48

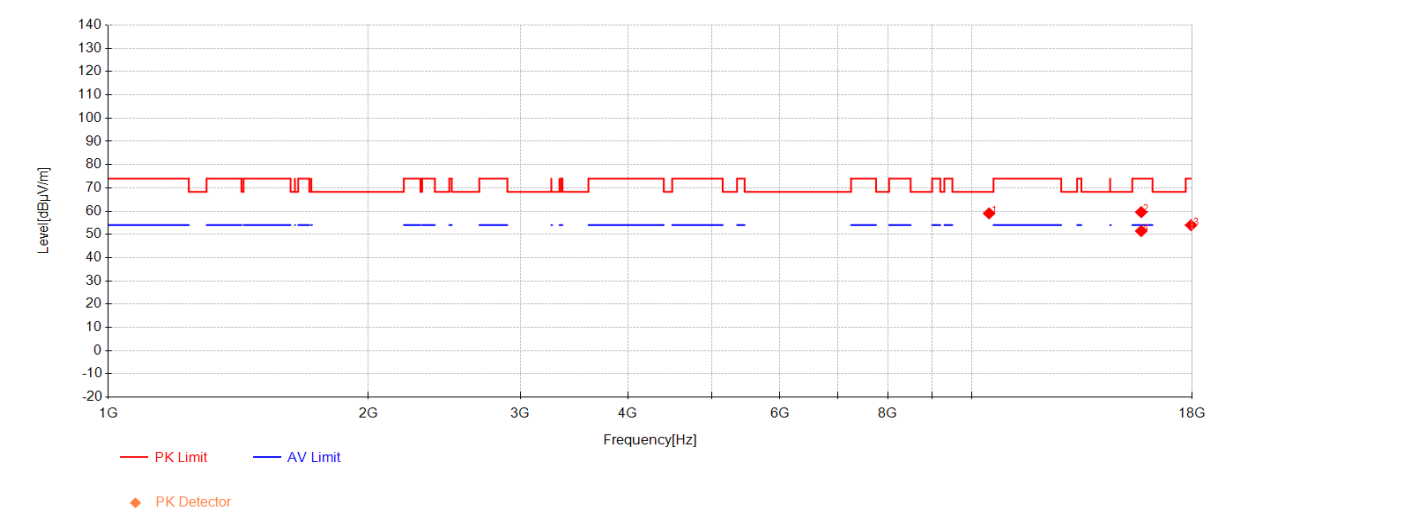


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10478.75	44.46	38.14	-31.06	51.54	68.30	16.76	Horizontal
2	15722.916	53.09	38.73	-27.74	64.07	74.00	9.93	Horizontal
3	17472.5	37.47	40.03	-24.19	53.31	68.30	14.99	Horizontal
4	15720	42.51	38.73	-27.77	53.47	54.00	0.53	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 48

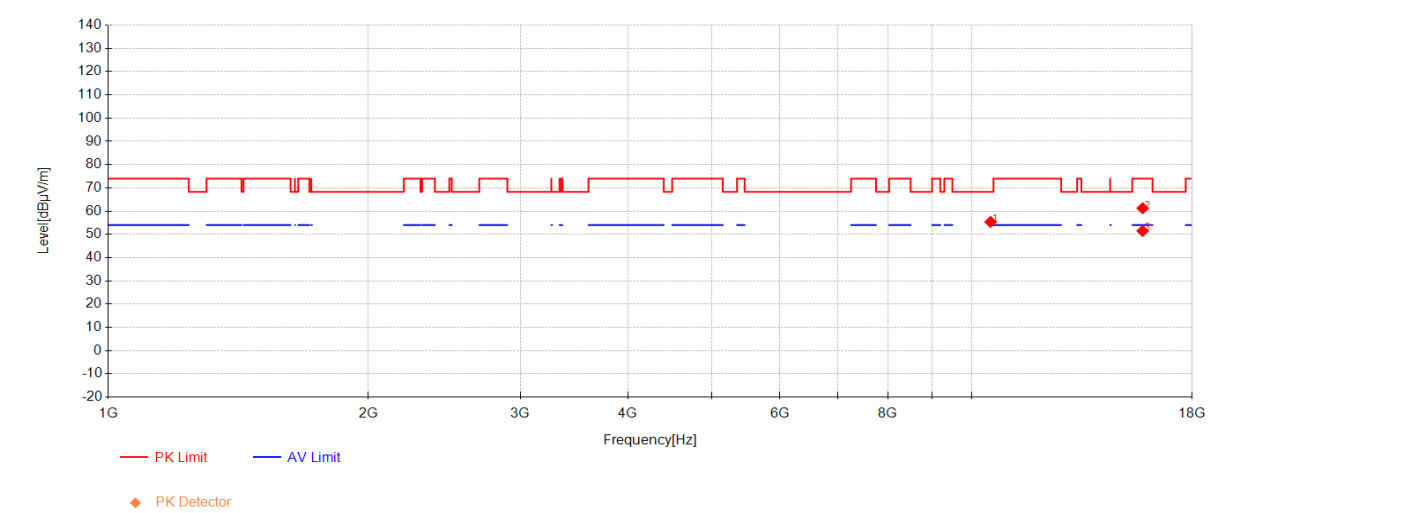


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10477.083	51.96	38.14	-31.06	59.04	68.30	9.26	Vertical
2	15720.833	48.59	38.73	-27.76	59.56	74.00	14.44	Vertical
3	17955.416	37.12	41.19	-24.34	53.97	74.00	20.03	Vertical
4	15720.833	40.46	38.73	-27.76	51.43	54.00	2.57	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 52

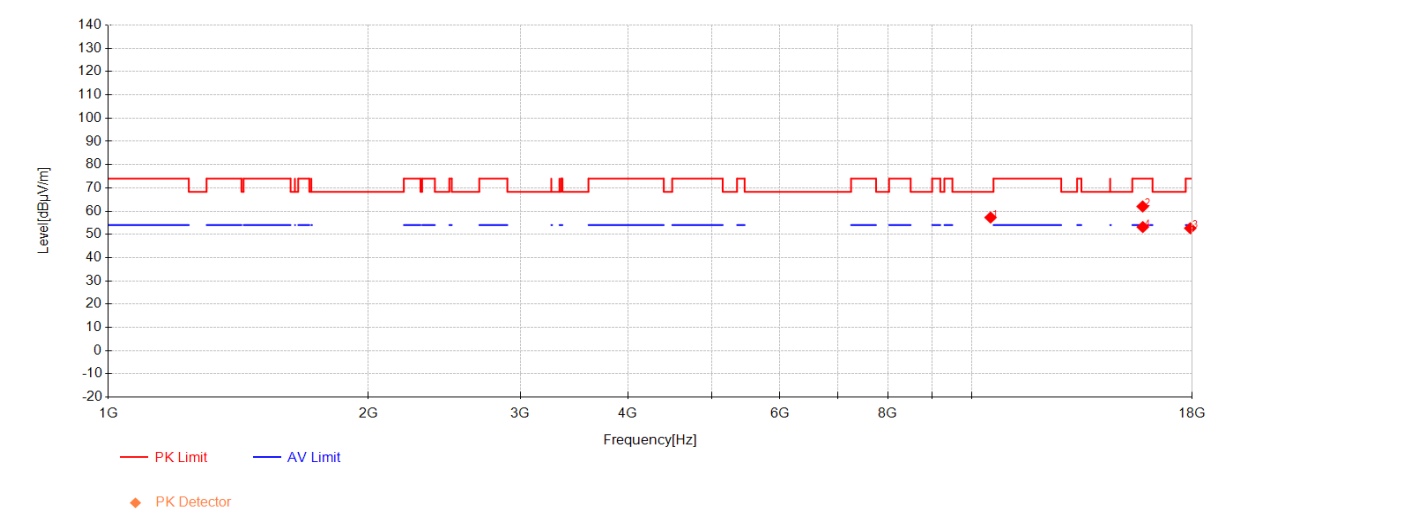


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10520	48.26	38.16	-31.06	55.36	68.30	12.94	Horizontal
2	15780.416	49.85	38.62	-27.23	61.24	74.00	12.76	Horizontal
3	15780.833	40.11	38.62	-27.22	51.50	54.00	2.50	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 52

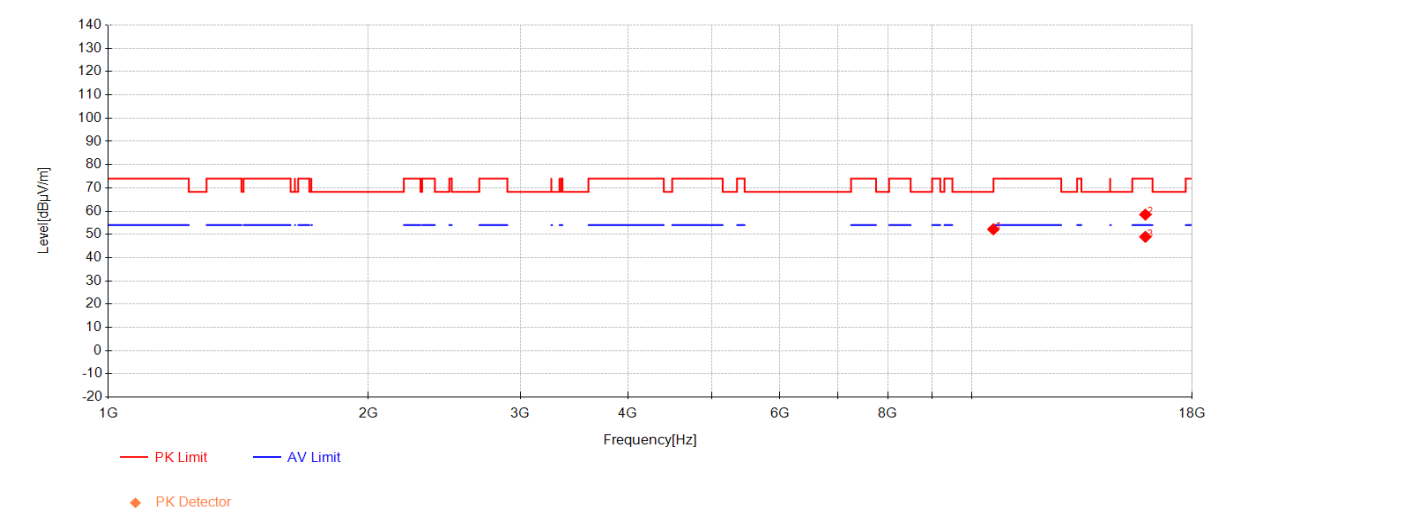


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10518.75	50.16	38.16	-31.06	57.26	68.30	11.04	Vertical
2	15780.416	50.61	38.62	-27.23	62.00	74.00	12.00	Vertical
3	17916.666	36.03	41.10	-24.49	52.64	74.00	21.36	Vertical
4	15786.25	41.72	38.61	-27.17	53.15	54.00	0.85	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 60

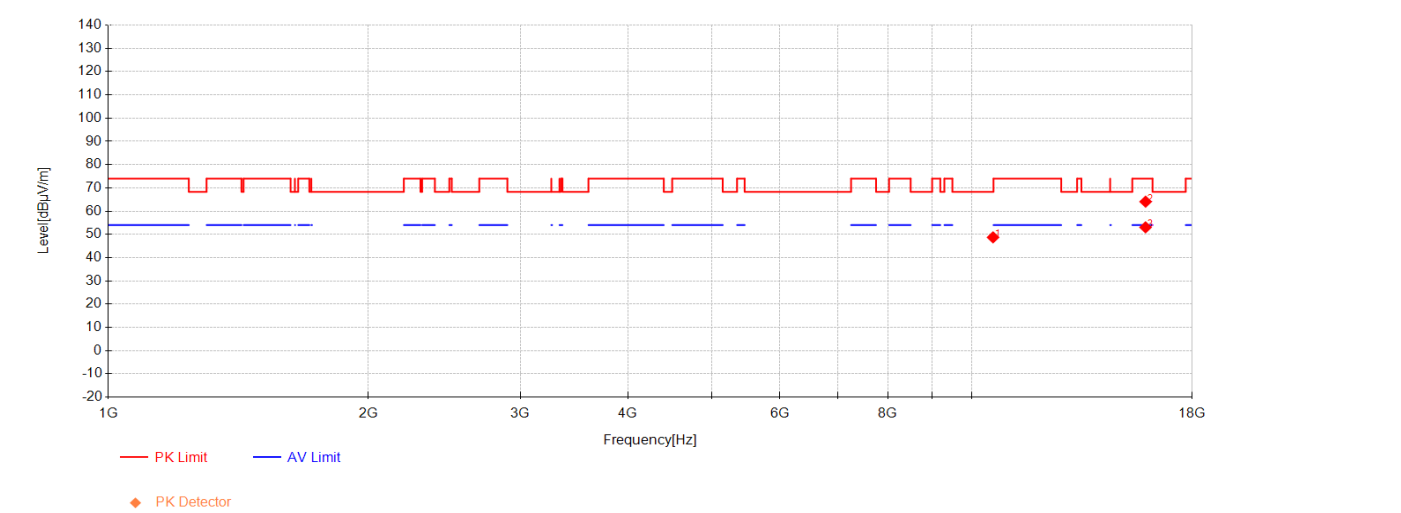


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10597.083	45.18	38.20	-31.20	52.18	68.30	16.12	Horizontal
2	15894.166	47.56	38.40	-27.45	58.51	74.00	15.49	Horizontal
3	15894.583	38.01	38.40	-27.46	48.95	54.00	5.05	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 60



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10588.75	41.71	38.19	-31.18	48.72	68.30	19.58	Vertical
2	15903.333	53.16	38.38	-27.48	64.07	74.00	9.93	Vertical
3	15901.666	42.13	38.39	-27.48	53.04	54.00	0.96	Vertical

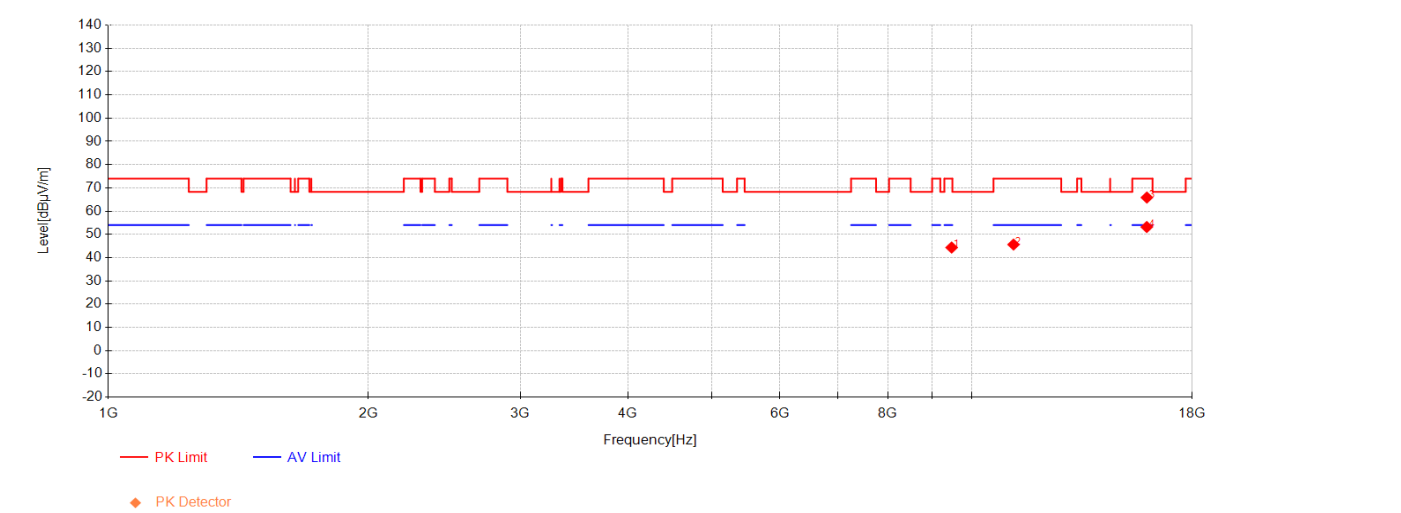


Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204
Page: 58 of 364

802.11ac20_Channel 64

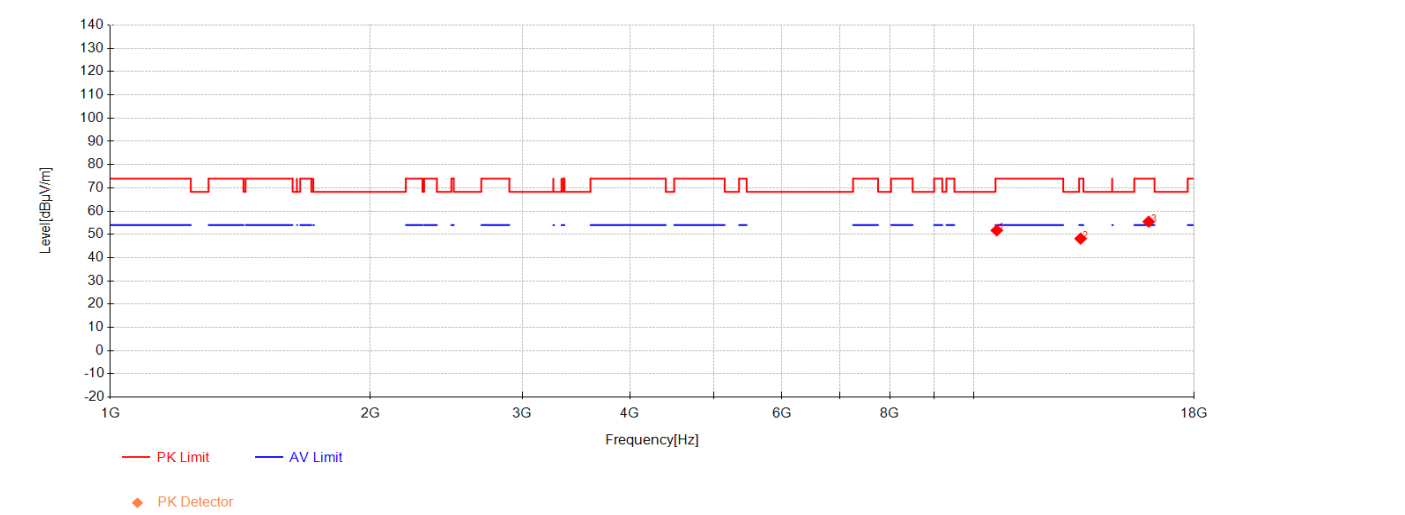


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	9482.0833	40.24	37.74	-33.65	44.34	74.00	29.66	Horizontal
2	11183.333	37.26	38.40	-30.02	45.64	74.00	28.36	Horizontal
3	15957.916	55.03	38.28	-27.45	65.86	74.00	8.14	Horizontal
4	15955.833	42.34	38.28	-27.45	53.17	54.00	0.83	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 64

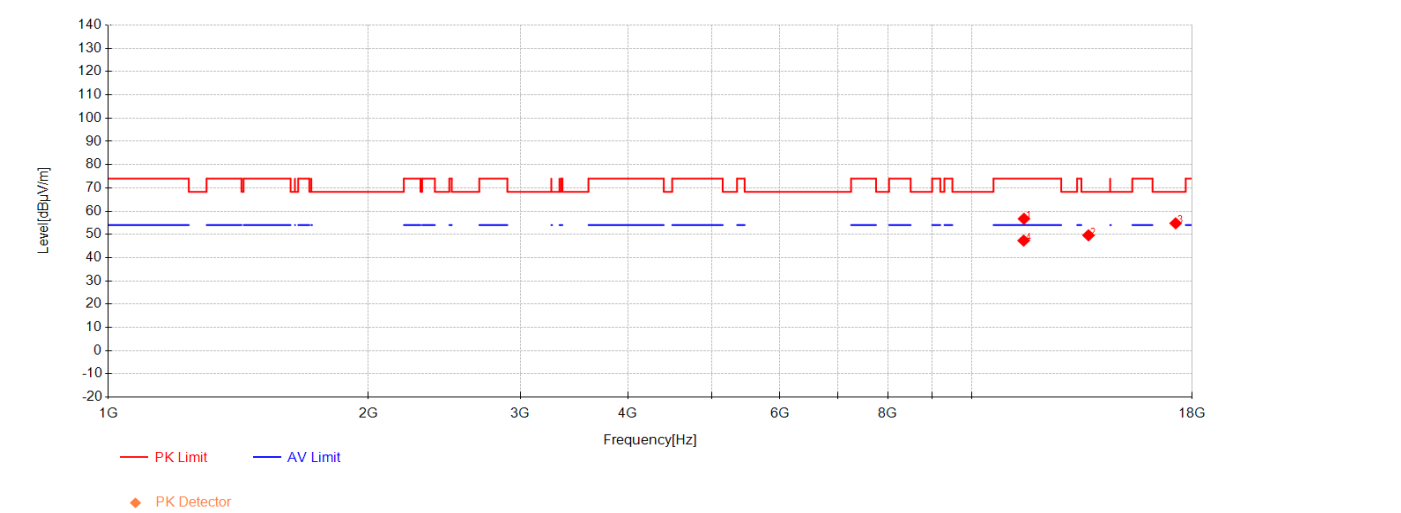


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10636.666	44.36	38.22	-30.87	51.71	74.00	22.29	Vertical
2	13302.916	37.78	39.81	-29.41	48.19	74.00	25.81	Vertical
3	15952.5	44.62	38.29	-27.45	55.46	74.00	18.54	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 149

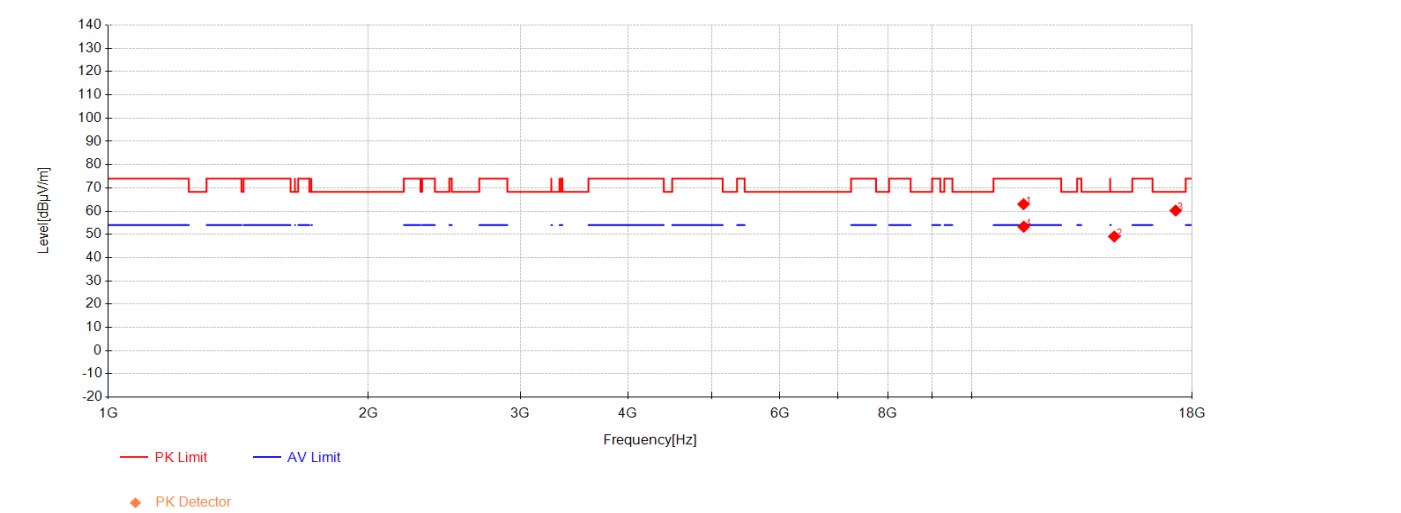


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11498.75	48.32	38.40	-29.99	56.73	74.00	17.27	Horizontal
2	13657.083	38.08	40.06	-28.54	49.60	68.30	18.70	Horizontal
3	17231.666	40.42	39.46	-25.12	54.75	68.30	13.55	Horizontal
4	11489.166	38.90	38.40	-29.98	47.32	54.00	6.68	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 149

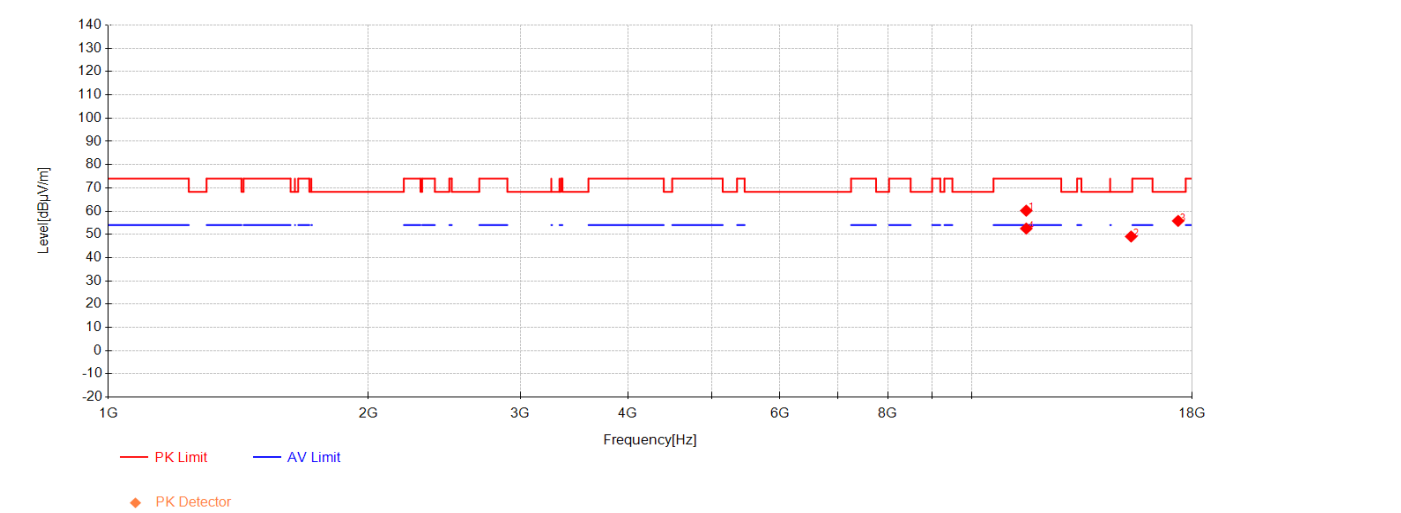


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11485.833	54.56	38.40	-29.97	62.99	74.00	11.01	Vertical
2	14627.916	37.68	40.17	-28.76	49.09	68.30	19.21	Vertical
3	17234.583	45.93	39.46	-25.15	60.24	68.30	8.06	Vertical
4	11490.416	44.88	38.40	-29.98	53.30	54.00	0.70	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 157

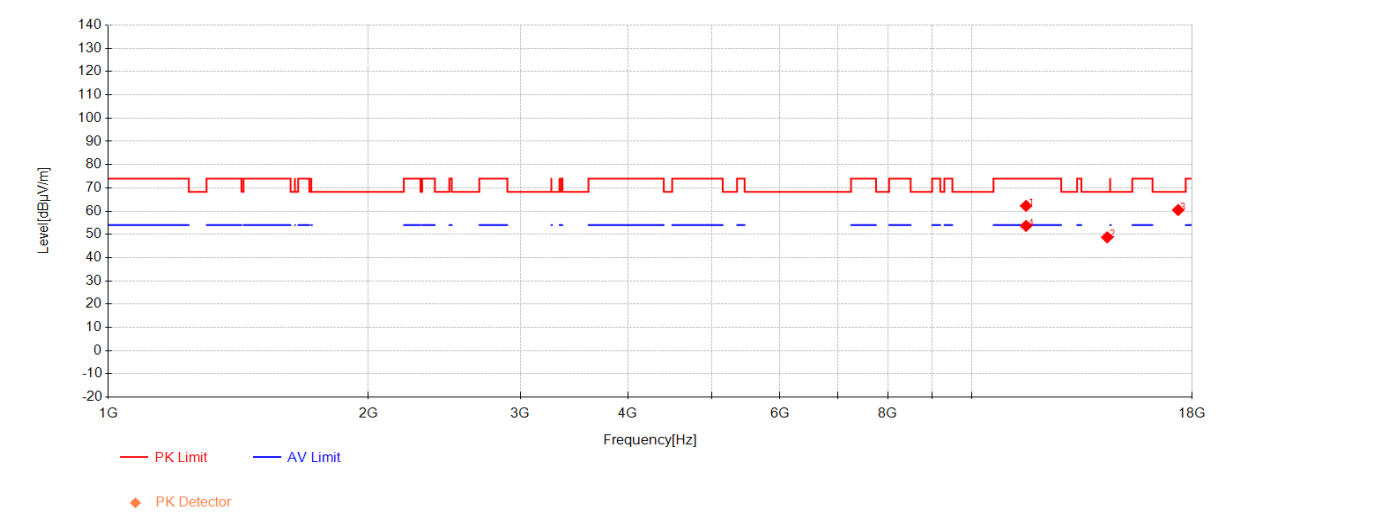


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11568.333	51.53	38.40	-29.72	60.21	74.00	13.79	Horizontal
2	15302.5	37.08	39.53	-27.52	49.09	68.30	19.21	Horizontal
3	17346.666	41.55	39.73	-25.48	55.80	68.30	12.50	Horizontal
4	11570	43.81	38.40	-29.71	52.50	54.00	1.50	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 157

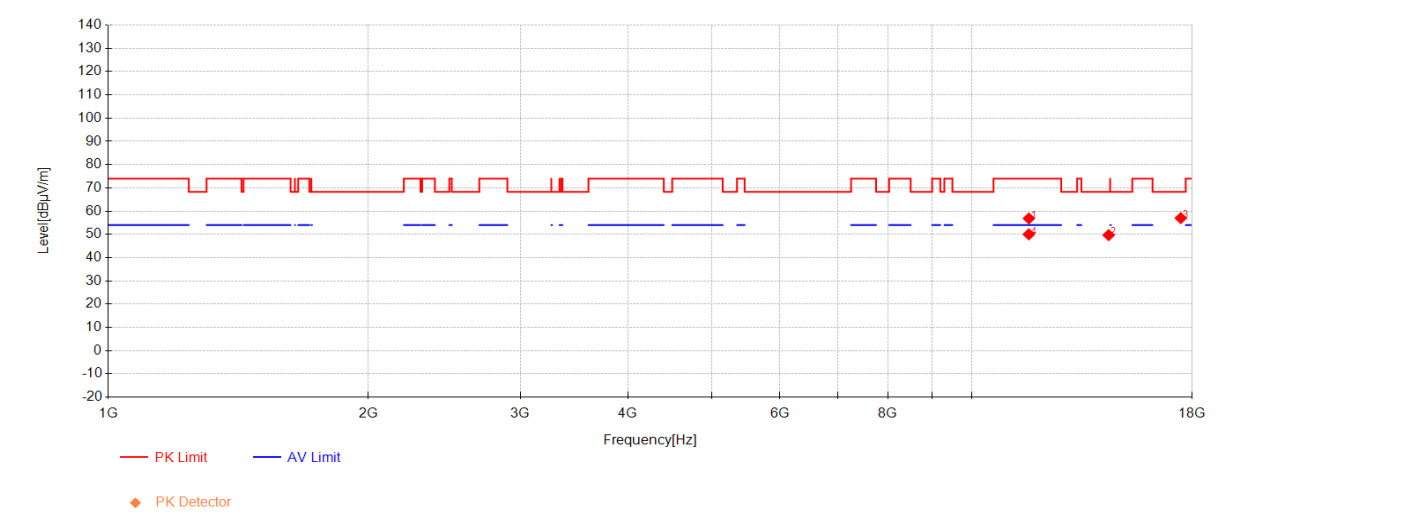


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11562.083	53.60	38.40	-29.74	62.26	74.00	11.74	Vertical
2	14353.333	37.36	40.23	-28.87	48.72	68.30	19.58	Vertical
3	17348.333	46.22	39.74	-25.47	60.48	68.30	7.82	Vertical
4	11562.5	44.99	38.40	-29.74	53.65	54.00	0.35	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 165

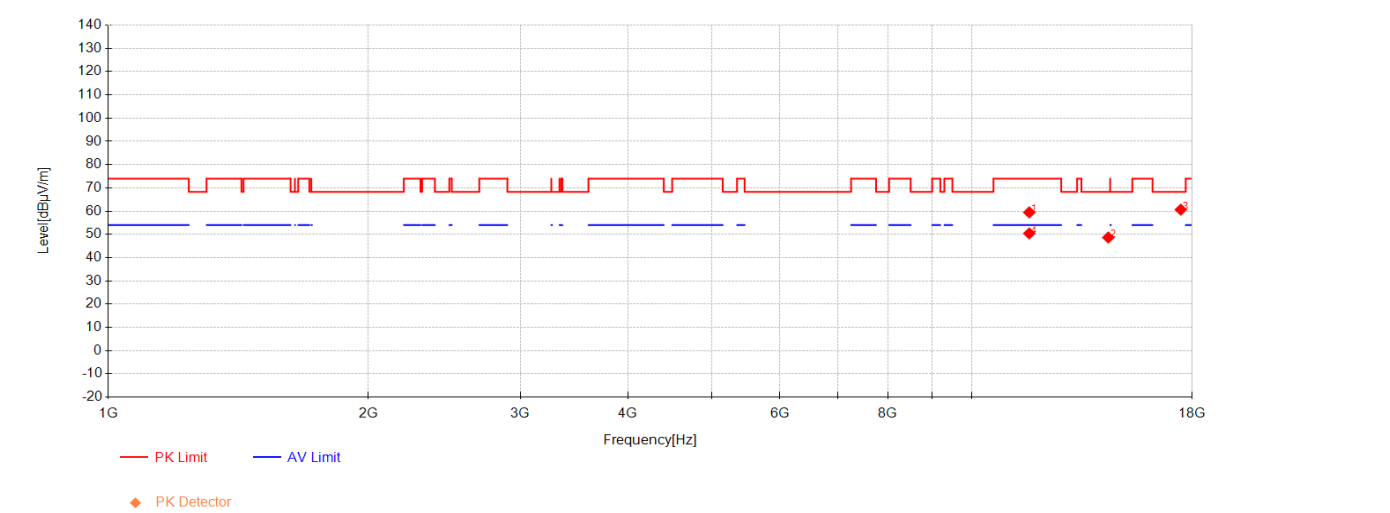


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11650.833	48.04	38.40	-29.60	56.84	74.00	17.16	Horizontal
2	14410.833	37.93	40.22	-28.46	49.69	68.30	18.61	Horizontal
3	17469.166	41.22	40.03	-24.23	57.01	68.30	11.29	Horizontal
4	11649.166	41.21	38.40	-29.59	50.02	54.00	3.98	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 165

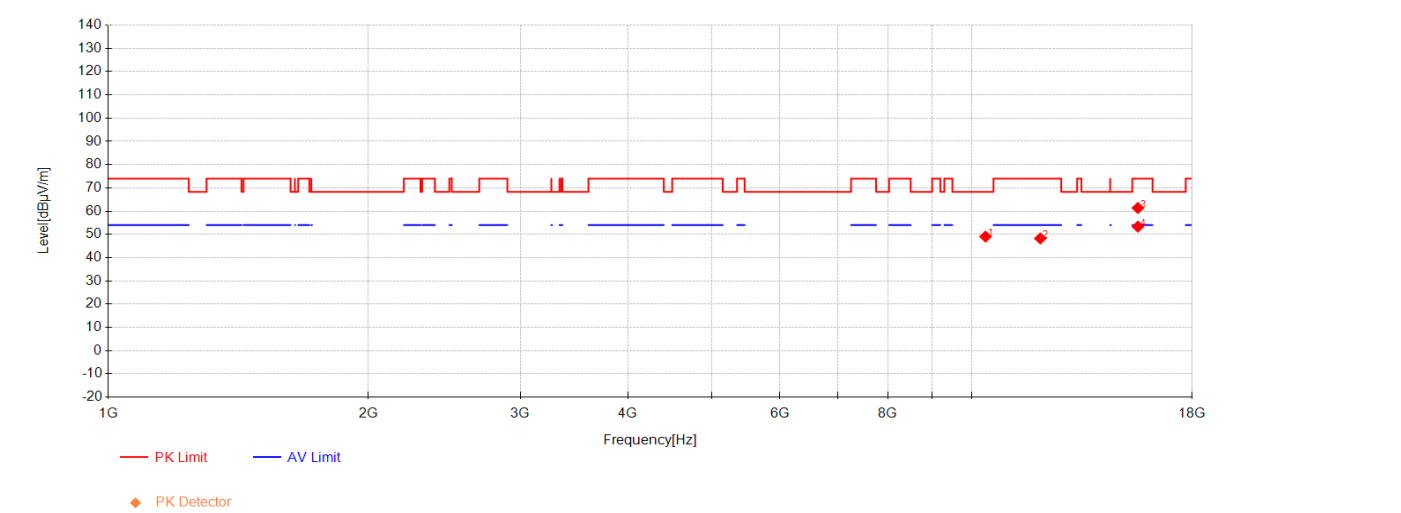


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11662.916	50.67	38.40	-29.60	59.47	74.00	14.53	Vertical
2	14399.166	36.83	40.22	-28.40	48.65	68.30	19.65	Vertical
3	17470	44.84	40.03	-24.22	60.64	68.30	7.66	Vertical
4	11662.916	41.61	38.40	-29.60	50.41	54.00	3.59	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 38

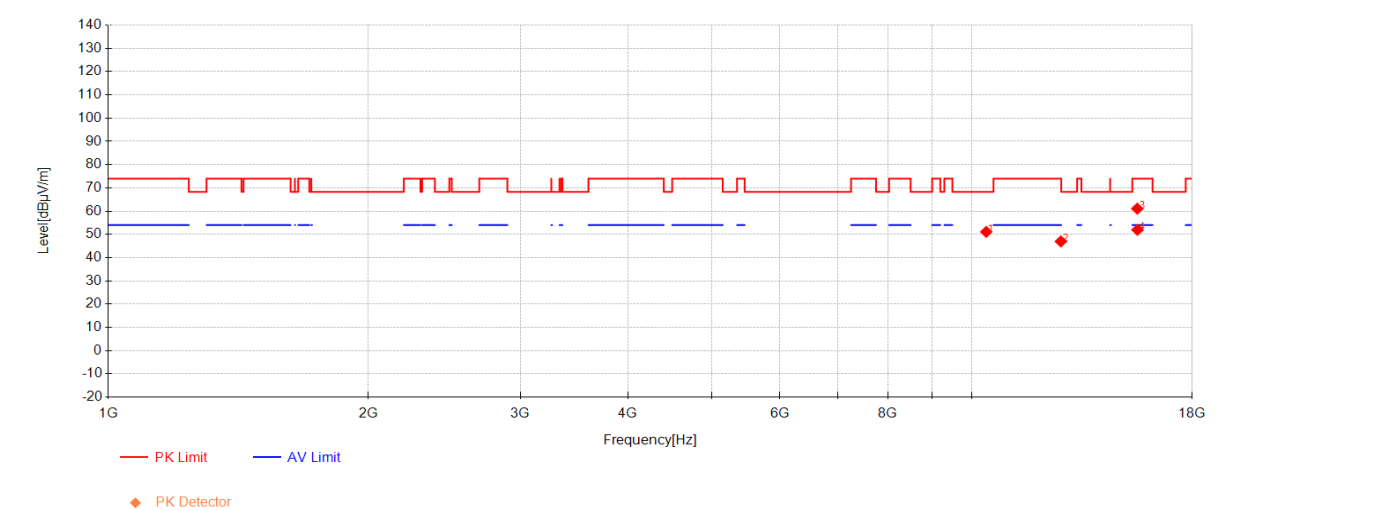


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10376.25	42.31	38.09	-31.35	49.05	68.30	19.25	Horizontal
2	12010.416	39.16	38.41	-29.32	48.25	74.00	25.75	Horizontal
3	15582.083	49.86	38.99	-27.49	61.36	74.00	12.64	Horizontal
4	15579.583	41.83	39.00	-27.49	53.33	54.00	0.67	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 38

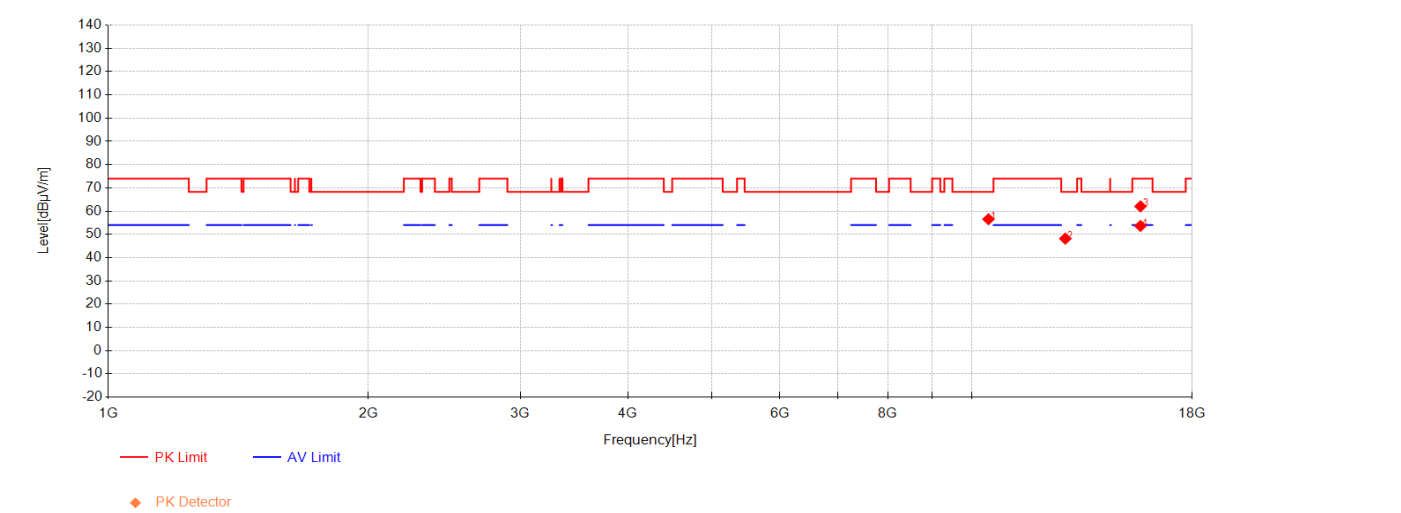


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10397.5	44.18	38.10	-31.18	51.10	68.30	17.20	Vertical
2	12687.5	37.33	39.22	-29.58	46.98	74.00	27.02	Vertical
3	15555	49.55	39.05	-27.55	61.05	74.00	12.95	Vertical
4	15563.75	40.44	39.03	-27.53	51.94	54.00	2.06	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 46

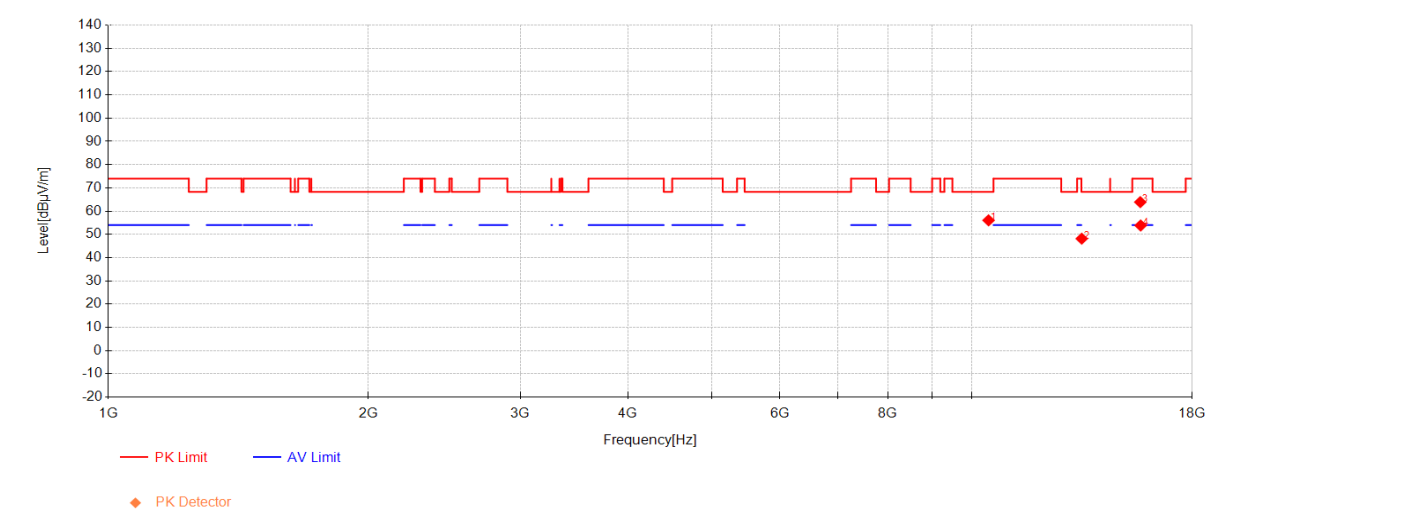


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10460	49.48	38.13	-31.08	56.53	68.30	11.77	Horizontal
2	12838.333	38.50	39.41	-29.71	48.19	68.30	20.11	Horizontal
3	15690.833	51.17	38.79	-27.90	62.05	74.00	11.95	Horizontal
4	15688.333	42.73	38.79	-27.89	53.63	54.00	0.37	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 46

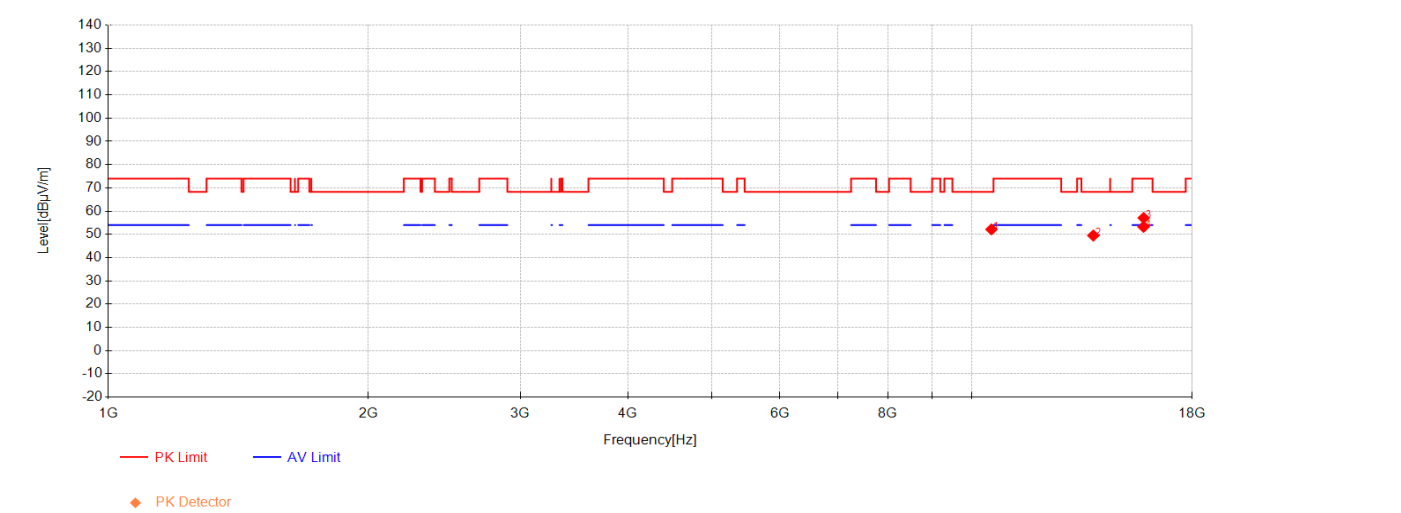


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10462.083	48.99	38.13	-31.08	56.04	68.30	12.26	Vertical
2	13412.916	37.25	39.89	-28.99	48.15	68.30	20.15	Vertical
3	15681.666	52.92	38.80	-27.86	63.87	74.00	10.13	Vertical
4	15696.25	42.98	38.78	-27.93	53.83	54.00	0.17	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 54

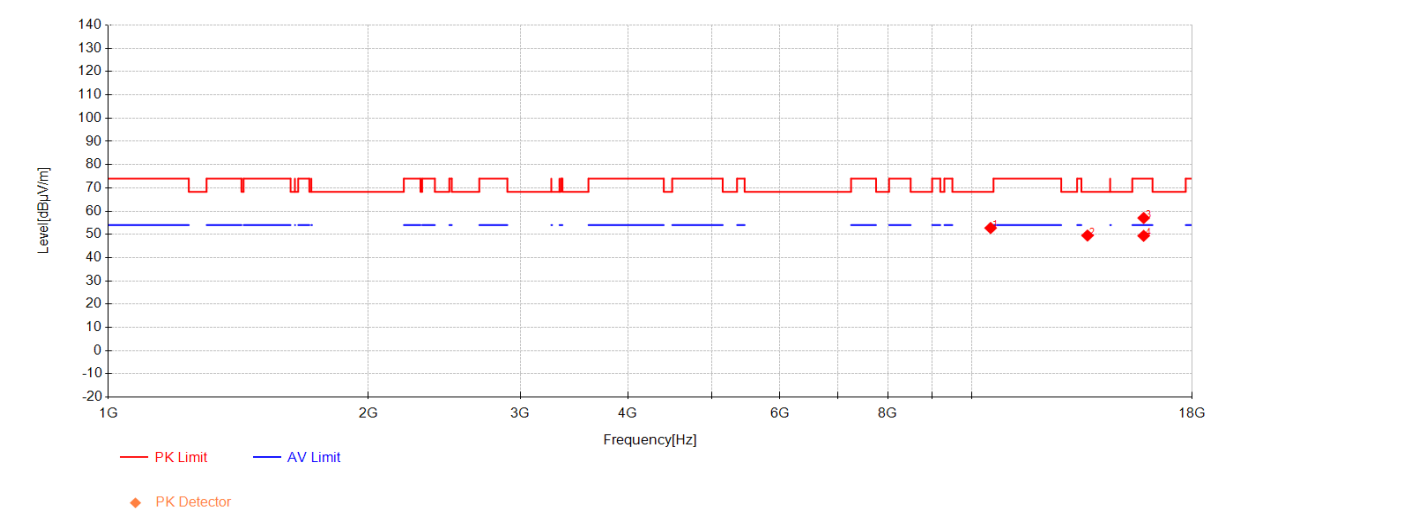


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10543.333	45.08	38.17	-31.10	52.15	68.30	16.15	Horizontal
2	13836.25	38.28	40.19	-28.95	49.51	68.30	18.79	Horizontal
3	15823.333	45.69	38.54	-27.15	57.08	74.00	16.92	Horizontal
4	15818.333	41.84	38.55	-27.13	53.26	54.00	0.74	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 54

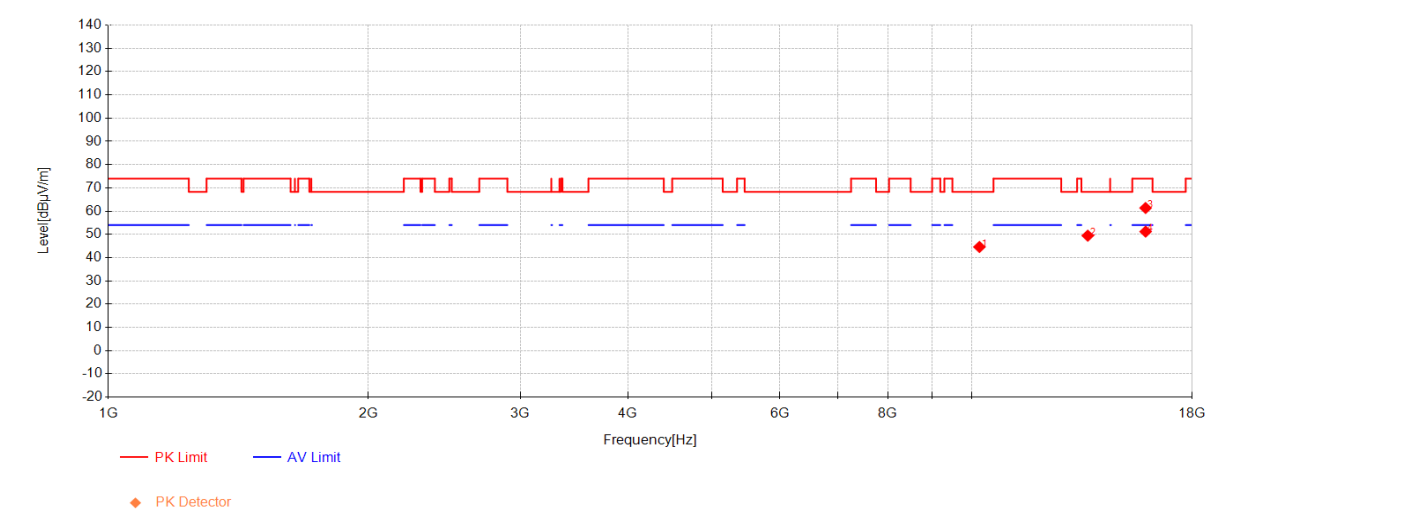


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10519.166	45.64	38.16	-31.06	52.74	68.30	15.56	Vertical
2	13621.25	37.45	40.03	-27.98	49.50	68.30	18.80	Vertical
3	15822.083	45.66	38.54	-27.14	57.05	74.00	16.95	Vertical
4	15822.5	38.00	38.54	-27.15	49.39	54.00	4.61	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 62

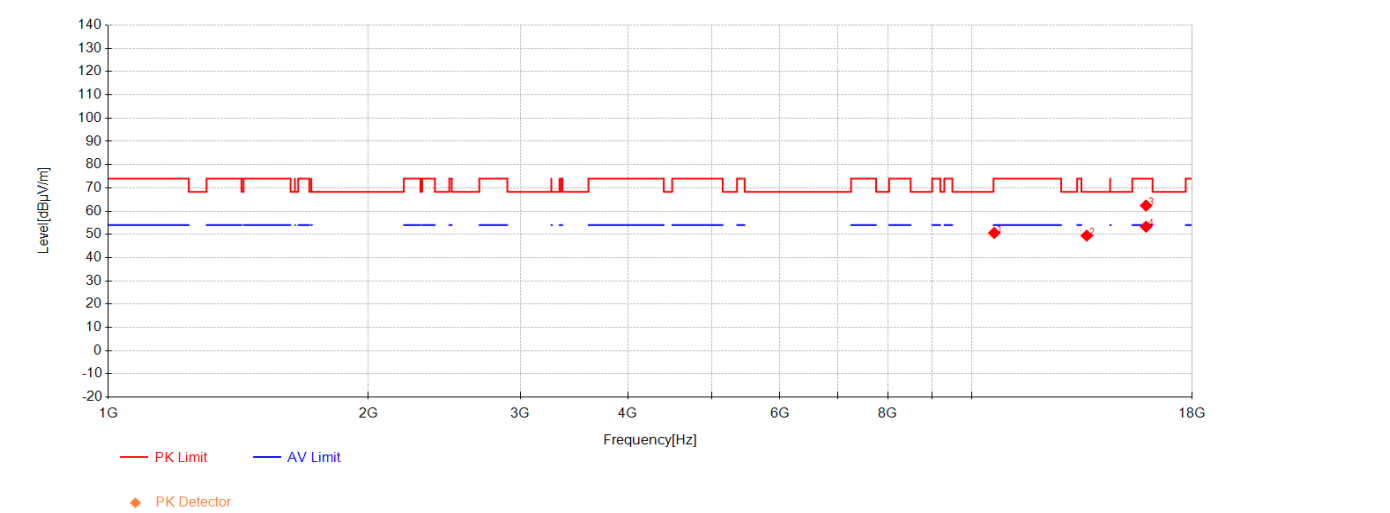


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10210.833	38.15	38.01	-31.58	44.58	68.30	23.72	Horizontal
2	13630.833	37.54	40.04	-28.13	49.45	68.30	18.85	Horizontal
3	15903.333	50.43	38.38	-27.48	61.34	74.00	12.66	Horizontal
4	15906.25	40.30	38.38	-27.48	51.20	54.00	2.80	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 62

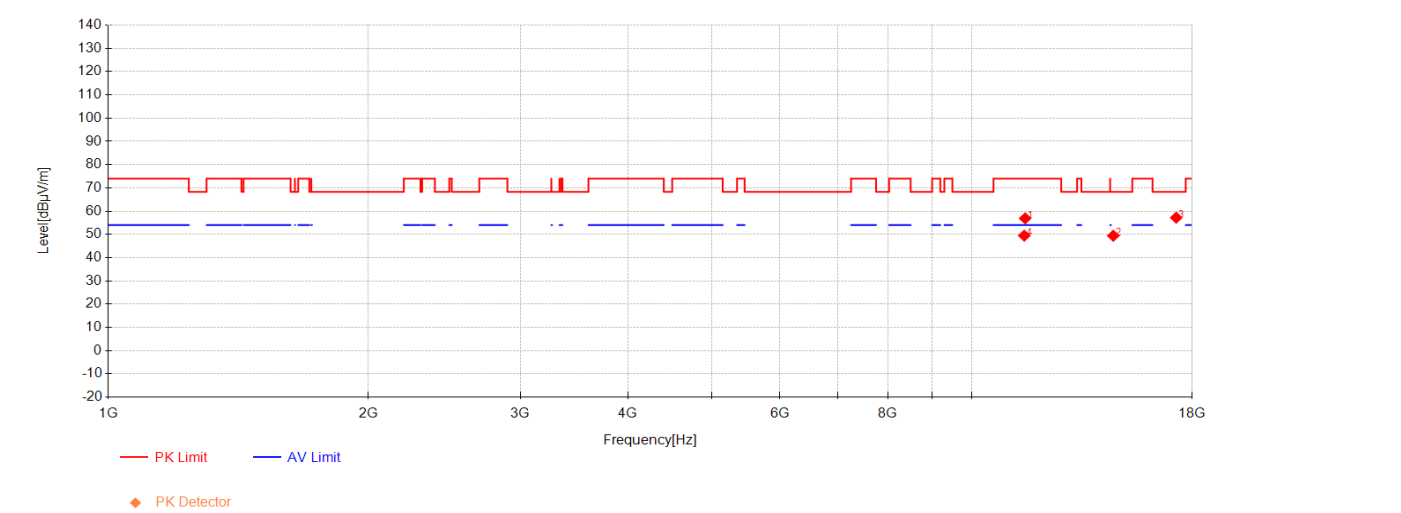


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10622.5	43.41	38.21	-31.00	50.62	74.00	23.38	Vertical
2	13595.416	37.19	40.02	-27.74	49.47	68.30	18.83	Vertical
3	15922.916	51.52	38.35	-27.47	62.40	74.00	11.60	Vertical
4	15923.75	42.43	38.34	-27.47	53.31	54.00	0.69	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 151

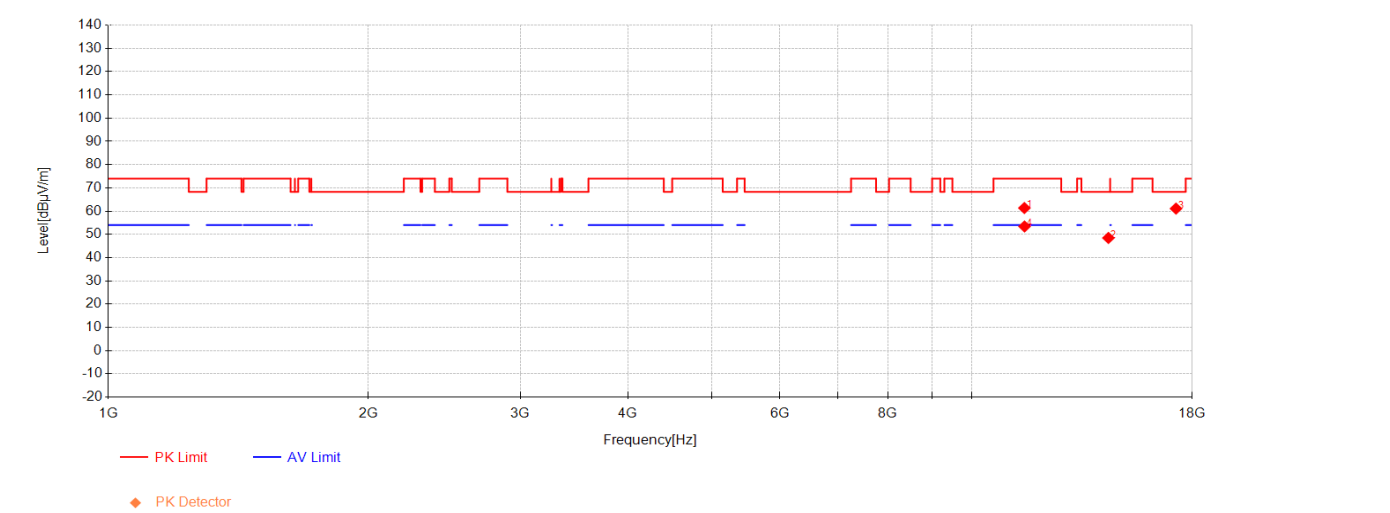


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11535.833	48.35	38.40	-29.85	56.90	74.00	17.10	Horizontal
2	14590.833	38.10	40.18	-28.88	49.41	68.30	18.89	Horizontal
3	17256.666	43.02	39.52	-25.37	57.17	68.30	11.13	Horizontal
4	11506.666	41.01	38.40	-29.96	49.45	54.00	4.55	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 151

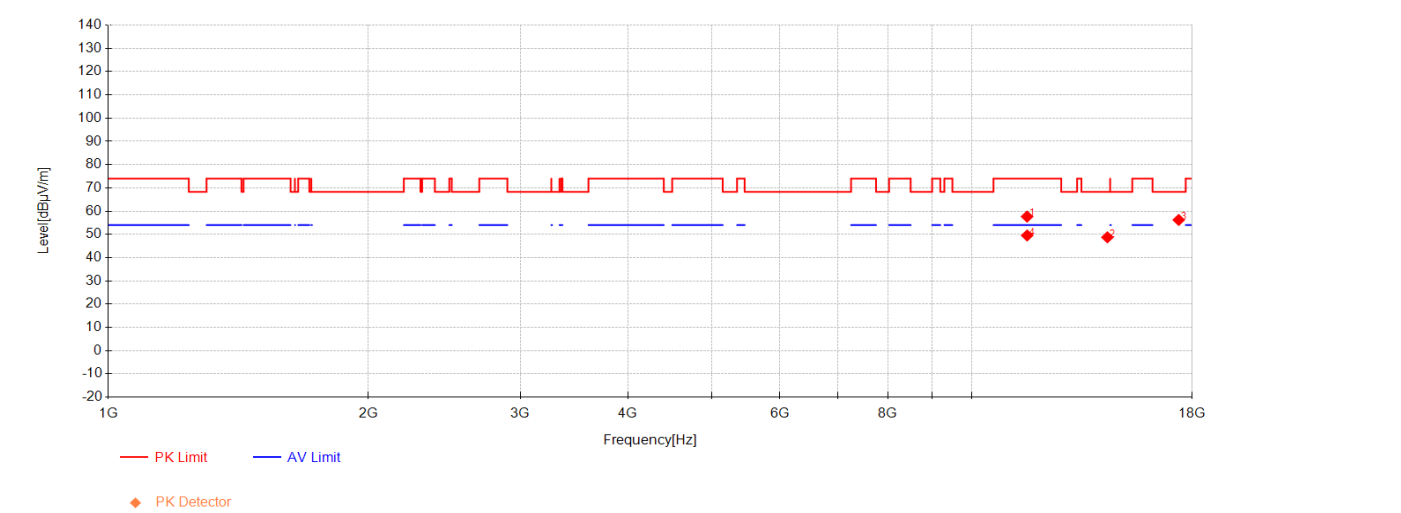


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11511.666	52.88	38.40	-29.94	61.34	74.00	12.66	Vertical
2	14404.166	36.67	40.22	-28.42	48.47	68.30	19.83	Vertical
3	17247.916	46.88	39.49	-25.28	61.09	68.30	7.21	Vertical
4	11515.833	44.93	38.40	-29.93	53.40	54.00	0.60	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 159

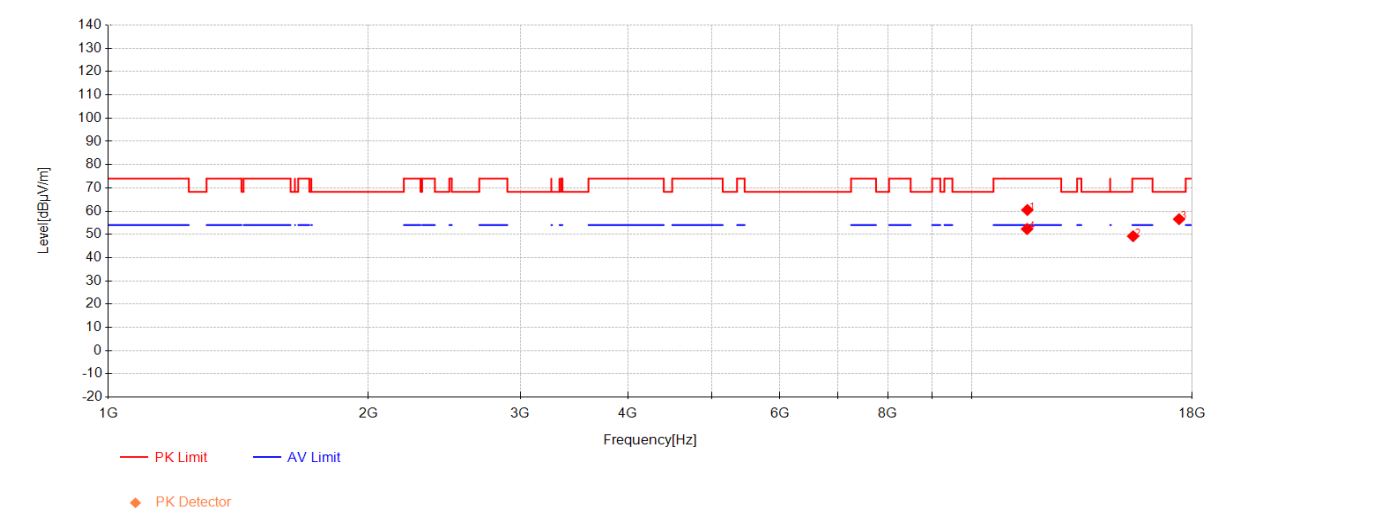


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11593.75	48.88	38.40	-29.62	57.66	74.00	16.34	Horizontal
2	14363.333	37.28	40.23	-28.76	48.74	68.30	19.56	Horizontal
3	17372.5	41.72	39.79	-25.31	56.21	68.30	12.09	Horizontal
4	11596.666	40.74	38.40	-29.60	49.54	54.00	4.46	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac40_Channel 159

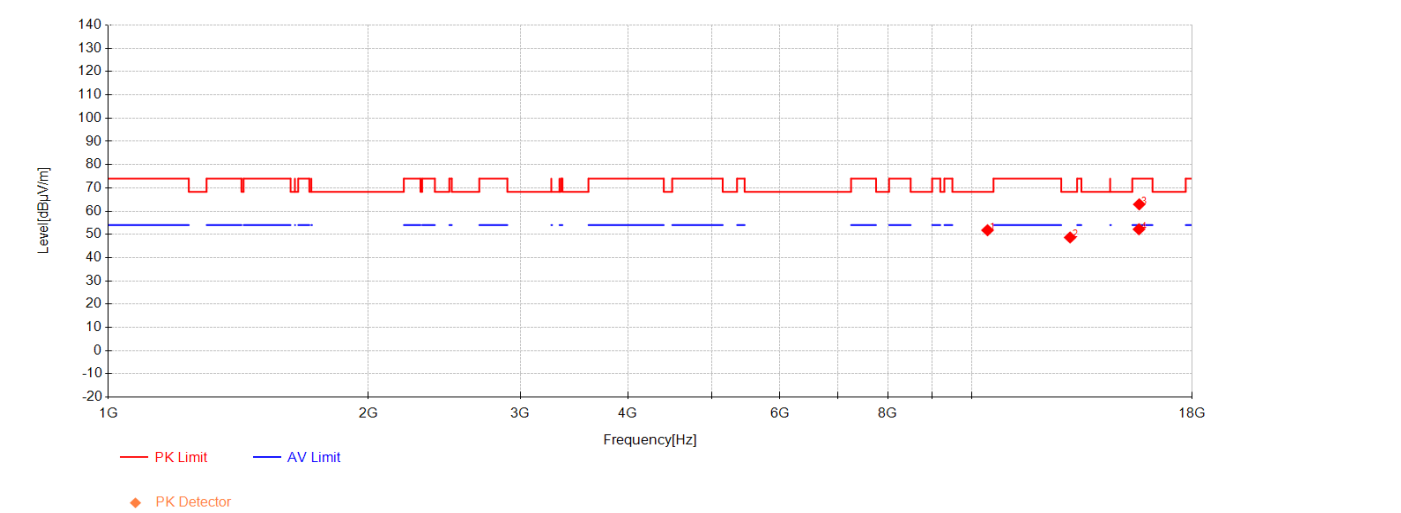


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11602.916	51.70	38.40	-29.59	60.51	74.00	13.49	Vertical
2	15383.333	37.38	39.37	-27.53	49.22	74.00	24.78	Vertical
3	17390.833	41.90	39.84	-25.18	56.56	68.30	11.74	Vertical
4	11594.583	43.52	38.40	-29.61	52.31	54.00	1.69	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 42

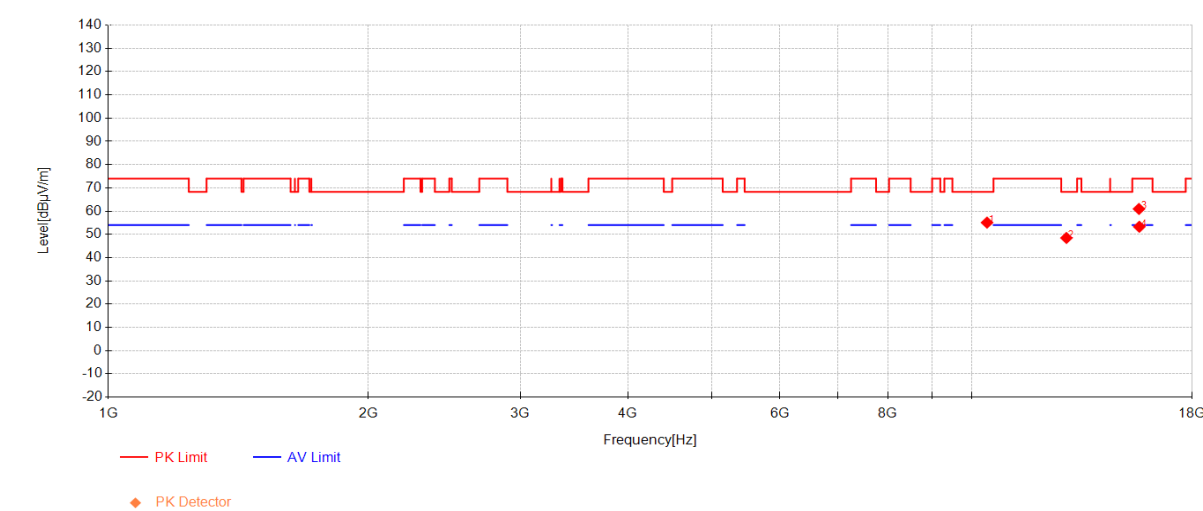


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10435	44.79	38.12	-31.11	51.79	68.30	16.51	Horizontal
2	13003.75	38.90	39.60	-29.82	48.68	68.30	19.62	Horizontal
3	15636.666	51.66	38.89	-27.63	62.92	74.00	11.08	Horizontal
4	15625.416	40.88	38.91	-27.58	52.21	54.00	1.79	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 42

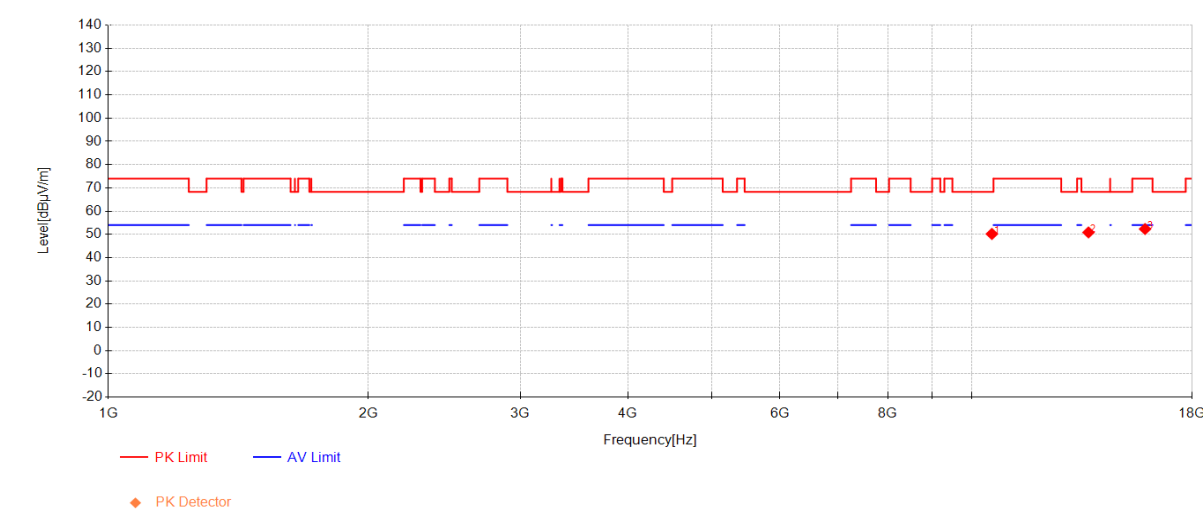


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10419.583	48.08	38.11	-31.13	55.06	68.30	13.24	Vertical
2	12877.916	38.52	39.45	-29.51	48.46	68.30	19.84	Vertical
3	15625.833	49.61	38.91	-27.58	60.94	74.00	13.06	Vertical
4	15640.416	42.05	38.88	-27.65	53.28	54.00	0.72	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 58

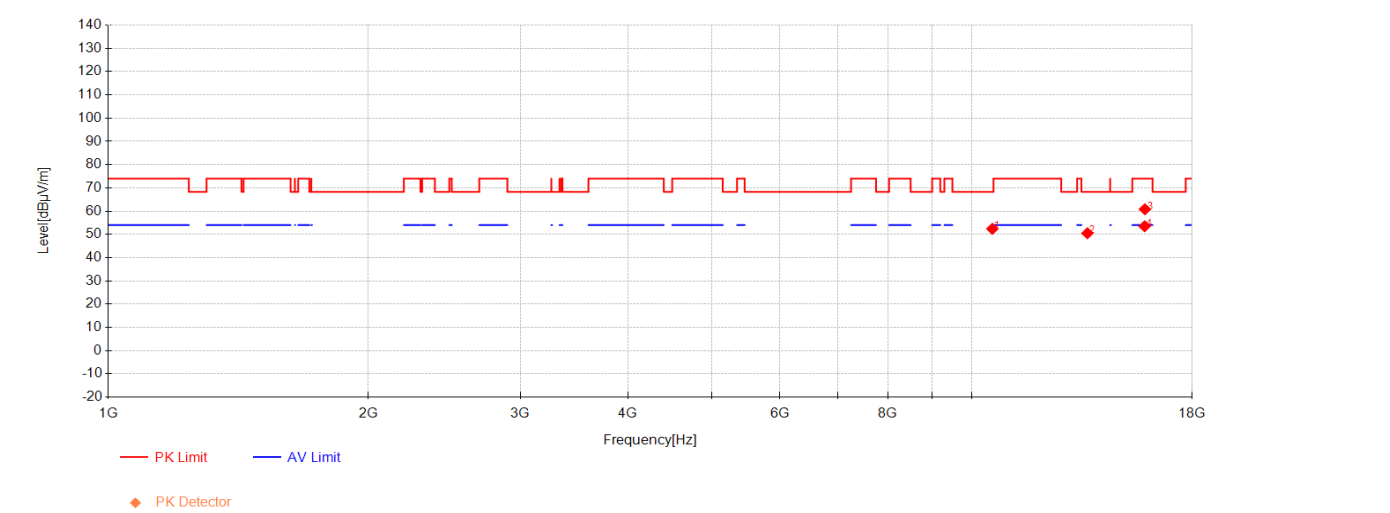


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10556.666	43.14	38.18	-31.13	50.19	68.30	18.11	Horizontal
2	13657.5	39.34	40.06	-28.55	50.85	68.30	17.45	Horizontal
3	15881.25	41.29	38.43	-27.40	52.32	74.00	21.68	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 58

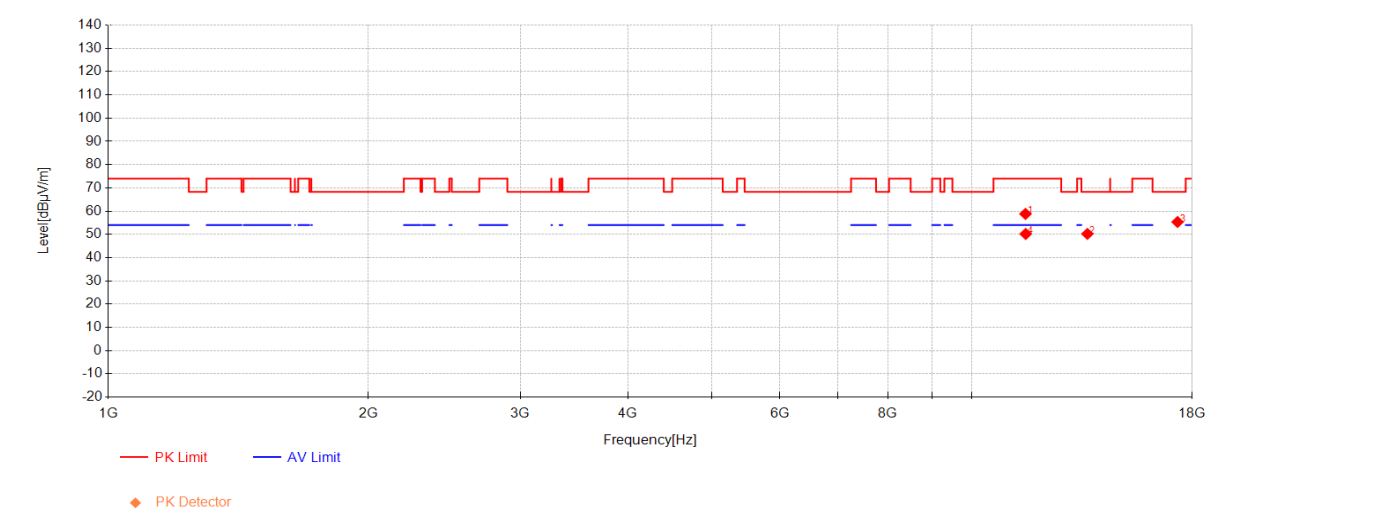


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10569.166	45.35	38.18	-31.15	52.39	68.30	15.91	Vertical
2	13618.333	38.40	40.03	-27.94	50.50	68.30	17.80	Vertical
3	15875	49.74	38.44	-27.37	60.81	74.00	13.19	Vertical
4	15863.333	42.35	38.46	-27.32	53.49	54.00	0.51	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 155

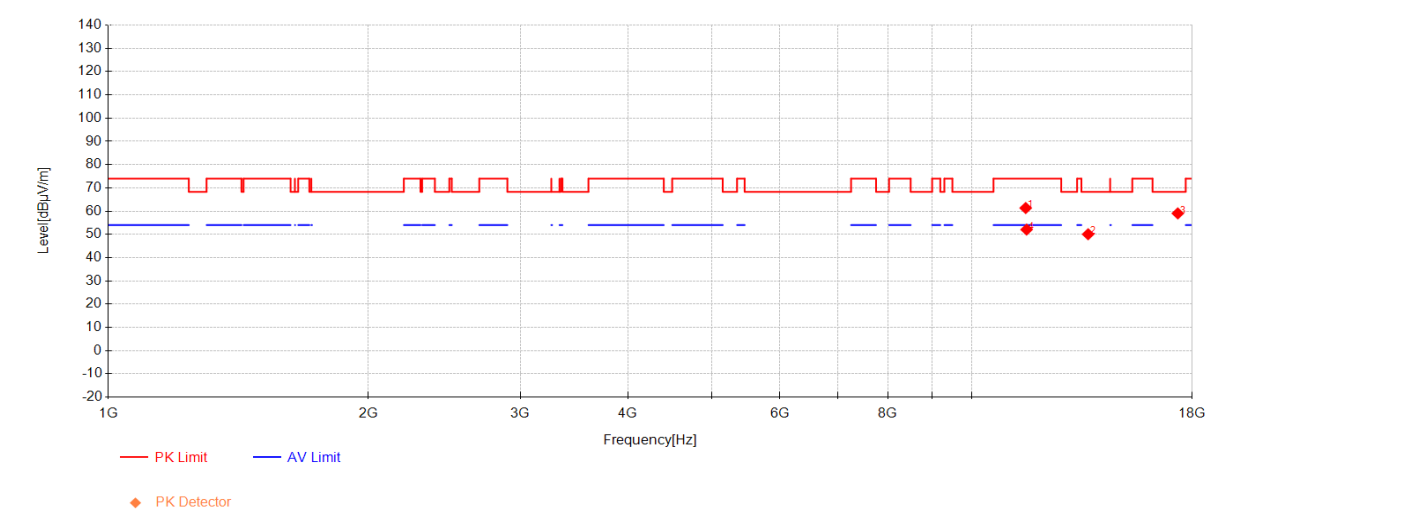


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11545	50.21	38.40	-29.81	58.80	74.00	15.20	Horizontal
2	13617.5	38.10	40.03	-27.92	50.21	68.30	18.09	Horizontal
3	17319.583	41.33	39.67	-25.67	55.33	68.30	12.97	Horizontal
4	11551.25	41.58	38.40	-29.79	50.19	54.00	3.81	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac80_Channel 155

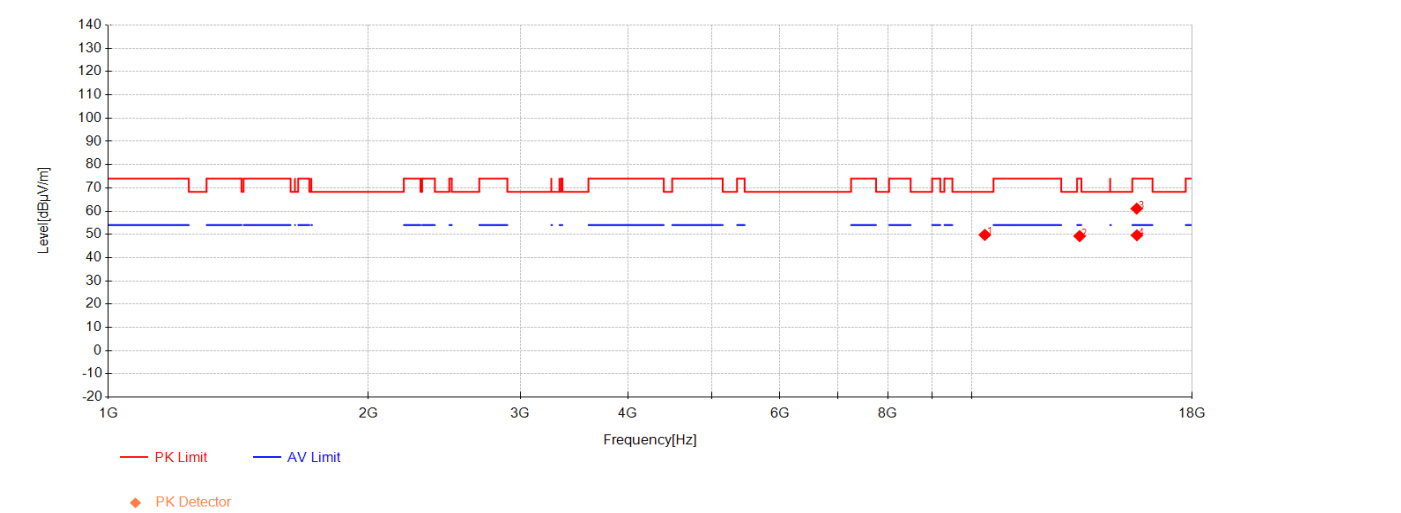


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11552.083	52.71	38.40	-29.78	61.33	74.00	12.67	Vertical
2	13644.166	38.35	40.05	-28.34	50.06	68.30	18.24	Vertical
3	17330.833	44.92	39.69	-25.59	59.02	68.30	9.28	Vertical
4	11579.583	43.35	38.40	-29.67	52.08	54.00	1.92	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 36

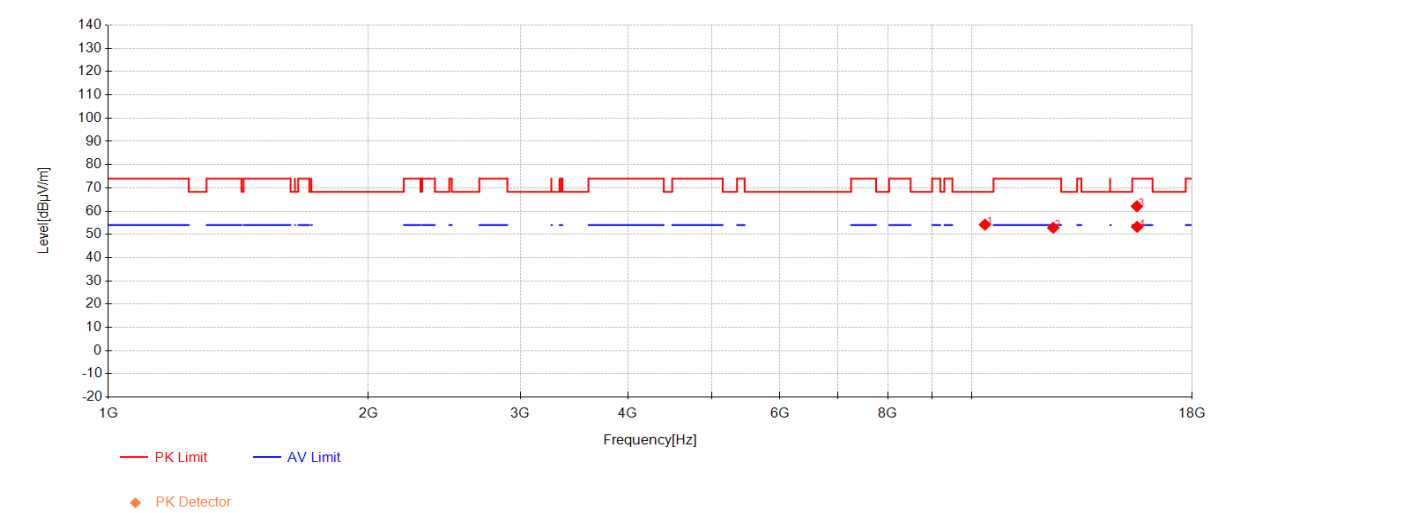


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10360.416	43.18	38.08	-31.48	49.78	68.30	18.52	Horizontal
2	13338.333	38.65	39.84	-29.22	49.26	74.00	24.74	Horizontal
3	15531.666	49.58	39.09	-27.60	61.07	74.00	12.93	Horizontal
4	15540	38.12	39.07	-27.58	49.61	54.00	4.39	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 36

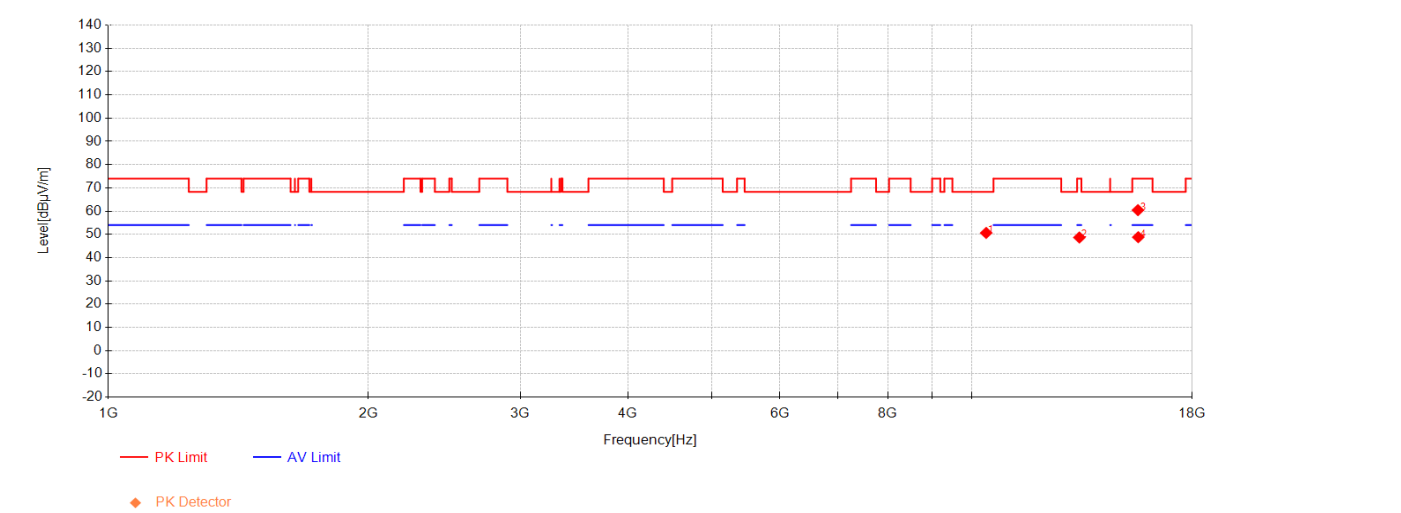


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10362.916	47.58	38.08	-31.46	54.20	68.30	14.10	Vertical
2	12431.666	43.19	38.92	-29.24	52.86	74.00	21.14	Vertical
3	15539.166	50.58	39.08	-27.58	62.07	74.00	11.93	Vertical
4	15548.75	41.72	39.06	-27.56	53.21	54.00	0.79	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 40

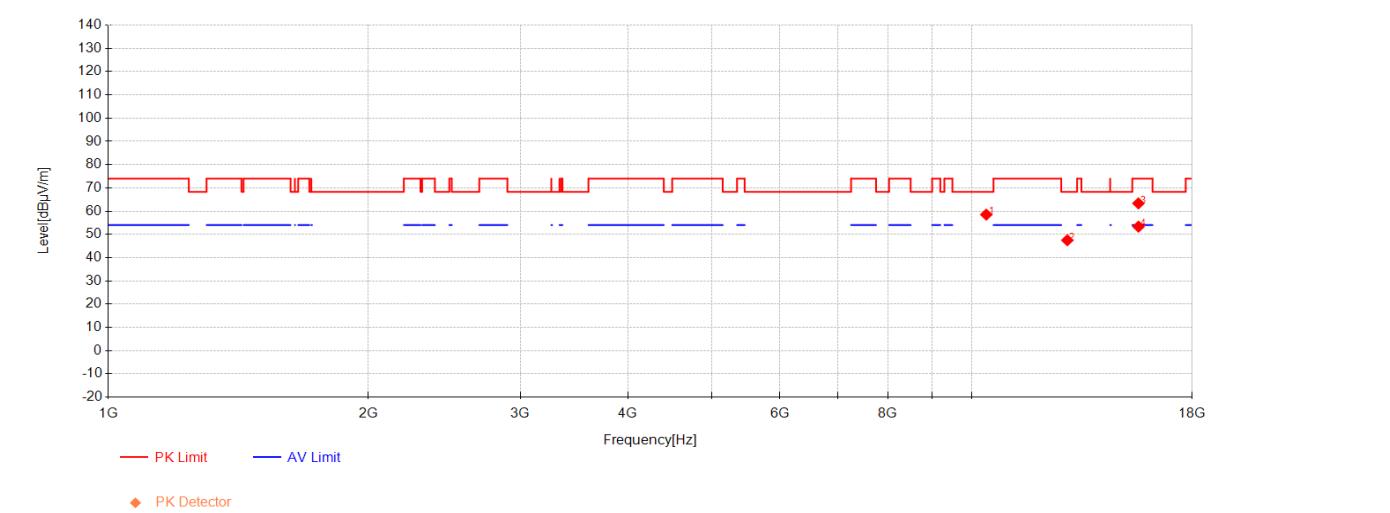


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10396.25	43.72	38.10	-31.19	50.63	68.30	17.67	Horizontal
2	13329.583	38.10	39.83	-29.27	48.66	74.00	25.34	Horizontal
3	15583.333	48.93	38.99	-27.49	60.43	74.00	13.57	Horizontal
4	15595.416	37.29	38.97	-27.46	48.80	54.00	5.20	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 40

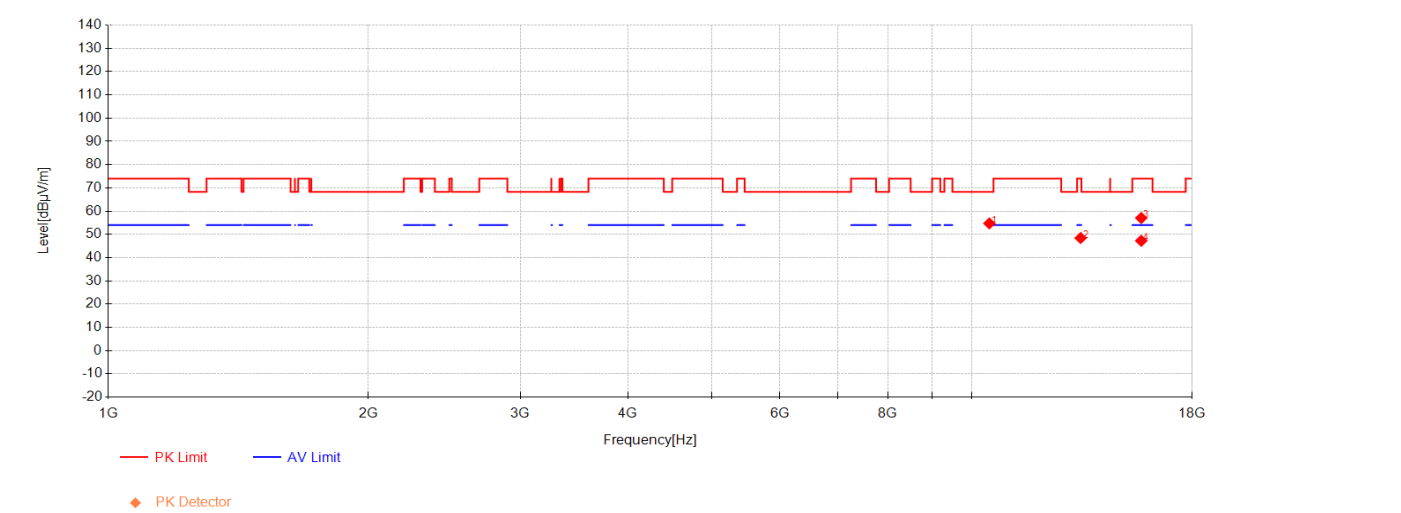


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10399.166	51.58	38.10	-31.17	58.51	68.30	9.79	Vertical
2	12908.75	37.43	39.49	-29.44	47.48	68.30	20.82	Vertical
3	15602.5	51.84	38.96	-27.46	63.33	74.00	10.67	Vertical
4	15604.583	41.85	38.95	-27.47	53.33	54.00	0.67	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 48

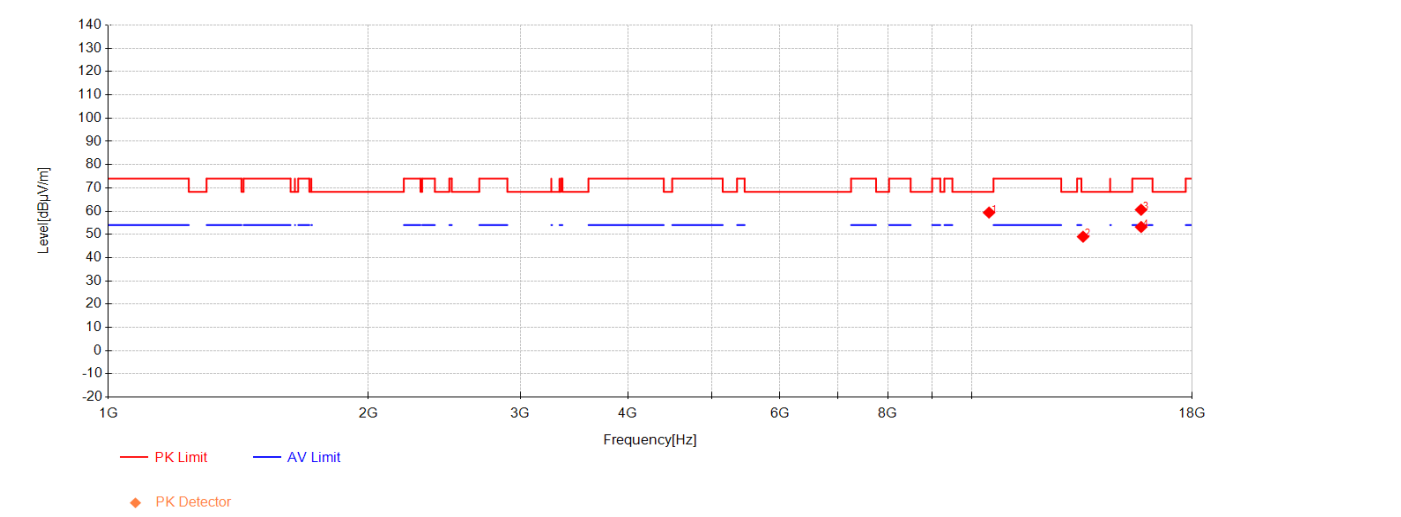


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10484.583	47.63	38.14	-31.05	54.72	68.30	13.58	Horizontal
2	13375	37.62	39.86	-29.04	48.44	74.00	25.56	Horizontal
3	15720.833	46.08	38.73	-27.76	57.05	74.00	16.95	Horizontal
4	15719.583	36.29	38.73	-27.77	47.25	54.00	6.75	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 48

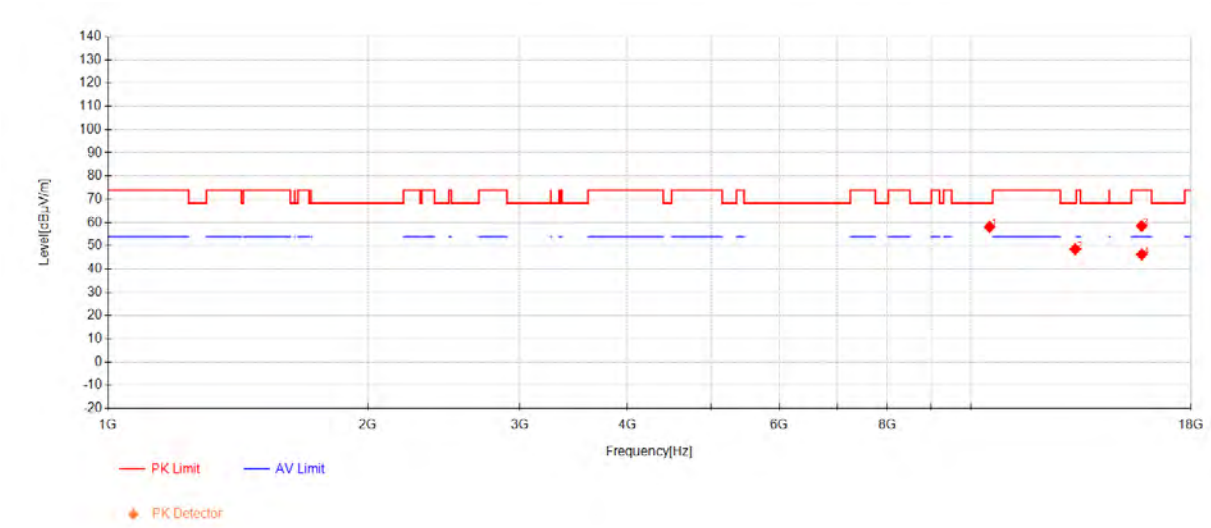


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10476.25	52.30	38.14	-31.06	59.38	68.30	8.92	Vertical
2	13461.666	38.39	39.92	-29.30	49.01	68.30	19.29	Vertical
3	15716.25	49.65	38.74	-27.80	60.59	74.00	13.41	Vertical
4	15717.916	42.22	38.74	-27.79	53.17	54.00	0.83	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 52

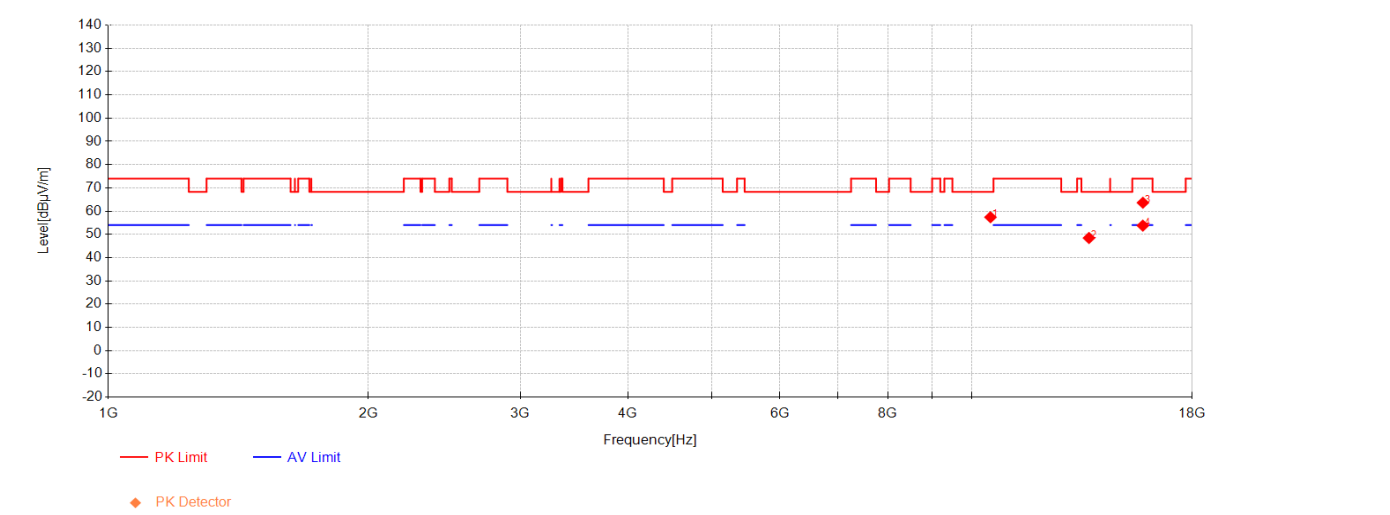


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10511.666	50.99	38.16	-31.05	58.10	68.30	10.20	Horizontal
2	13210.833	37.98	39.75	-29.24	48.49	68.30	19.81	Horizontal
3	15772.5	47.16	38.63	-27.30	58.49	74.00	15.51	Horizontal
4	15780.416	34.87	38.62	-27.23	46.26	54.00	7.74	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 52

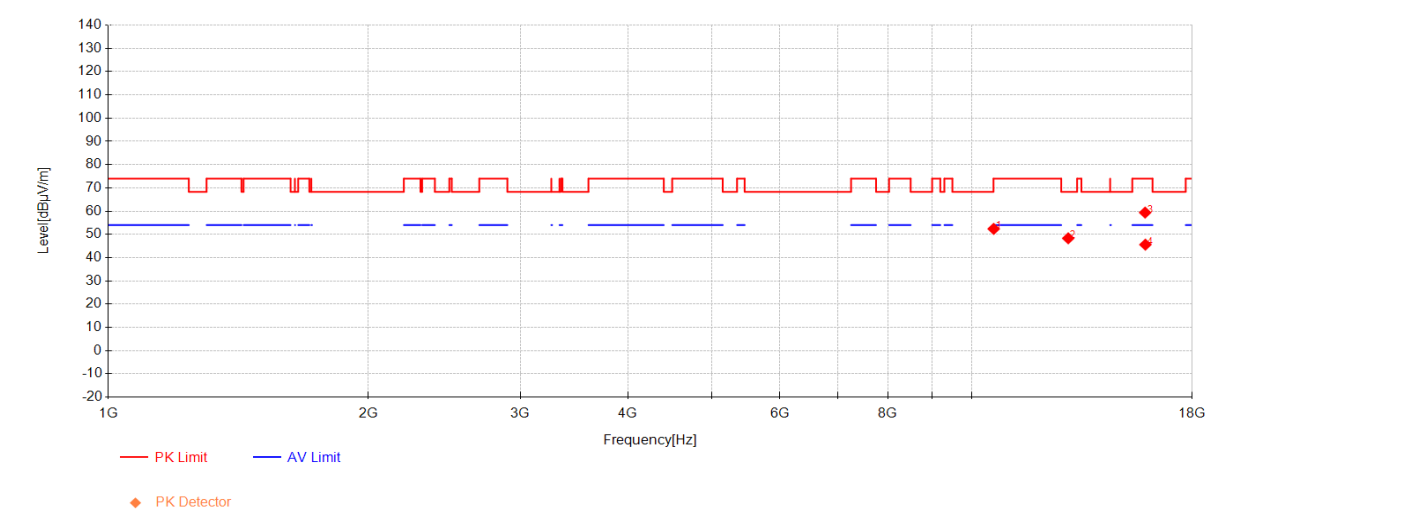


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10516.666	50.27	38.16	-31.06	57.37	68.30	10.93	Vertical
2	13675.416	37.20	40.07	-28.83	48.45	68.30	19.85	Vertical
3	15790.833	52.15	38.60	-27.13	63.61	74.00	10.39	Vertical
4	15787.083	42.32	38.60	-27.17	53.76	54.00	0.24	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 60

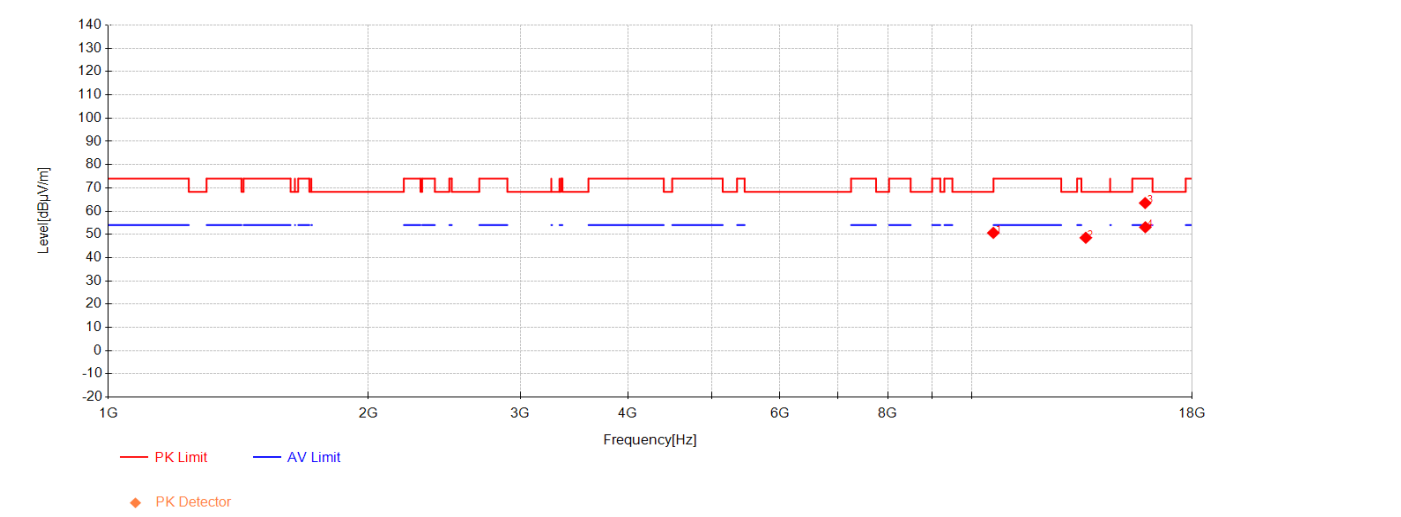


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10606.25	45.30	38.20	-31.14	52.36	74.00	21.64	Horizontal
2	12939.166	38.36	39.53	-29.58	48.31	68.30	19.99	Horizontal
3	15883.75	48.37	38.42	-27.41	59.38	74.00	14.62	Horizontal
4	15895.833	34.64	38.40	-27.46	45.58	54.00	8.42	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 60

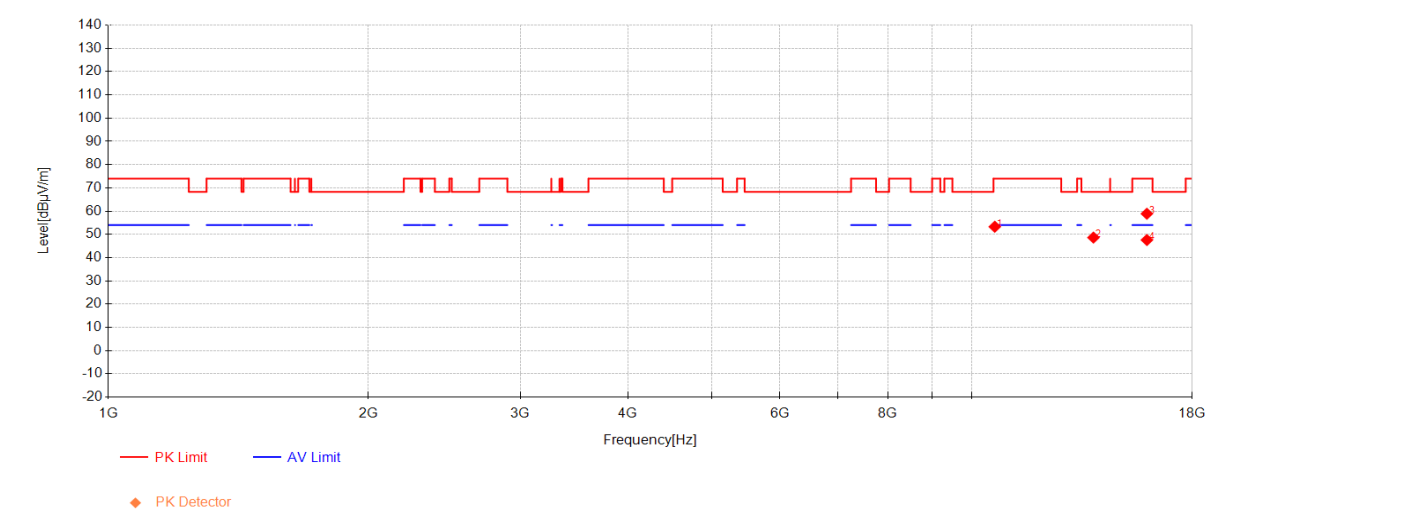


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10597.083	43.64	38.20	-31.20	50.64	68.30	17.66	Vertical
2	13560.416	36.95	39.99	-28.40	48.54	68.30	19.76	Vertical
3	15885.833	52.48	38.42	-27.42	63.48	74.00	10.52	Vertical
4	15893.75	42.11	38.40	-27.45	53.06	54.00	0.94	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 64

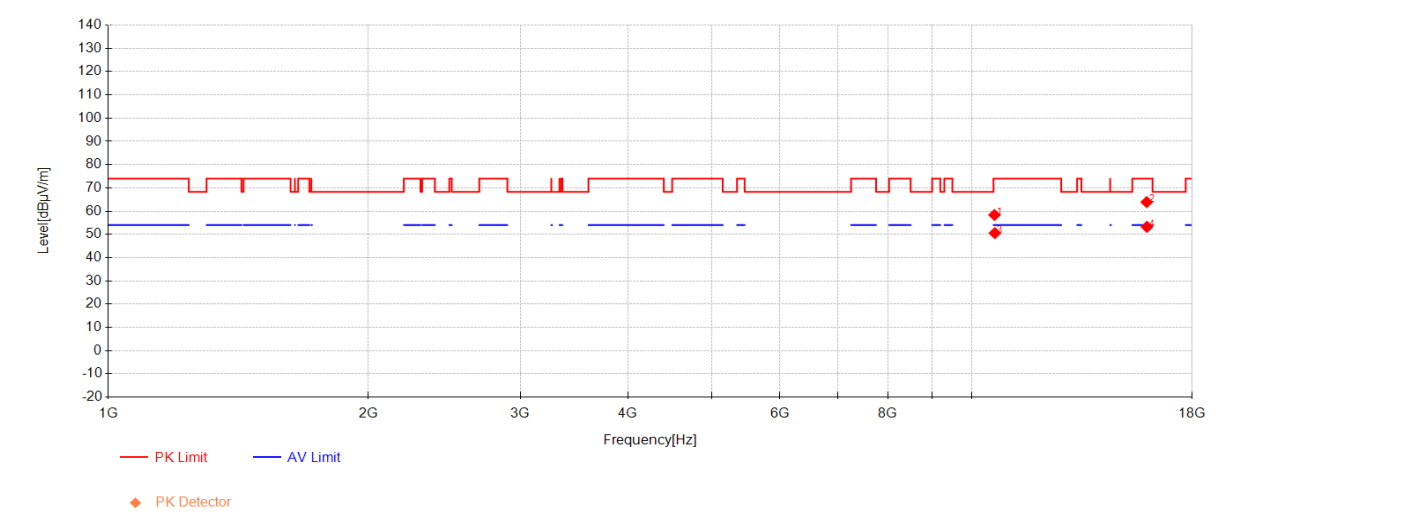


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10637.083	45.94	38.22	-30.87	53.29	74.00	20.71	Horizontal
2	13839.166	37.37	40.19	-28.93	48.63	68.30	19.67	Horizontal
3	15958.75	48.05	38.28	-27.45	58.88	74.00	15.12	Horizontal
4	15959.166	36.75	38.28	-27.45	47.58	54.00	6.42	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 64

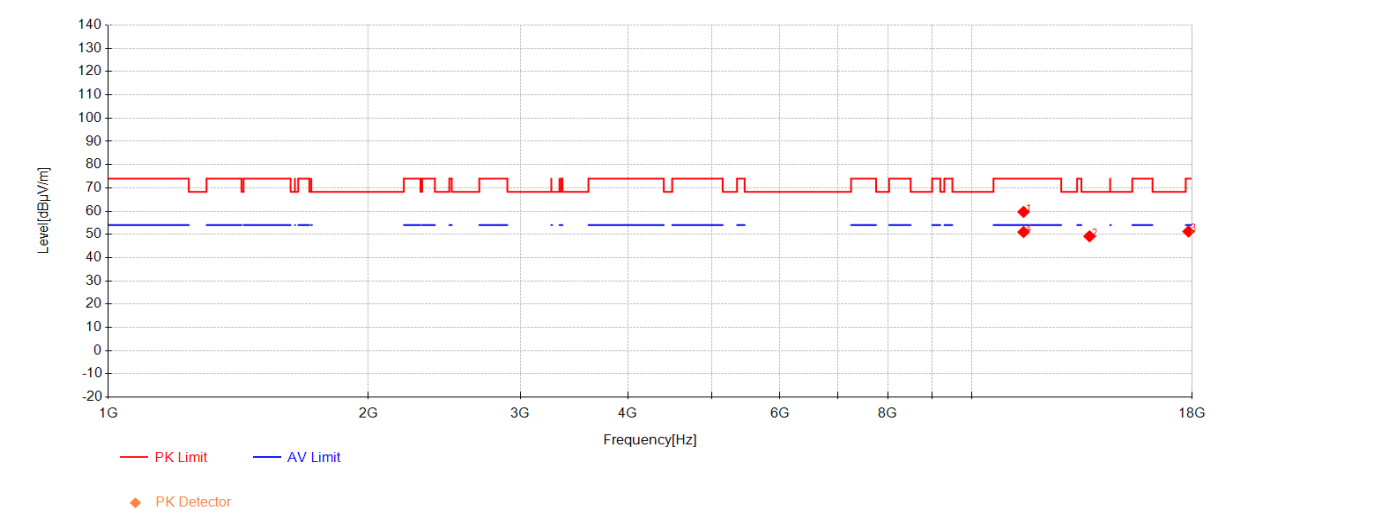


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10629.166	51.07	38.21	-30.94	58.35	74.00	15.65	Vertical
2	15951.666	53.04	38.29	-27.45	63.88	74.00	10.12	Vertical
3	10640.416	43.17	38.22	-30.84	50.55	54.00	3.45	Vertical
4	15960	42.41	38.28	-27.45	53.24	54.00	0.76	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 149

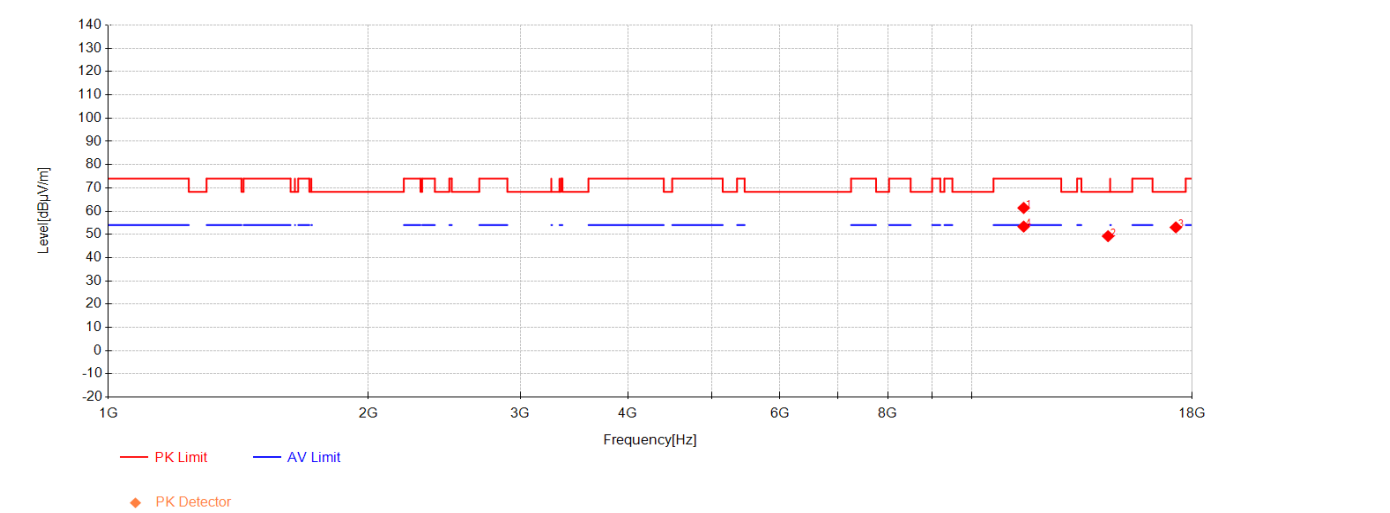


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11485.833	51.24	38.40	-29.97	59.67	74.00	14.33	Horizontal
2	13696.666	38.24	40.09	-29.16	49.17	68.30	19.13	Horizontal
3	17833.333	35.19	40.90	-24.86	51.23	74.00	22.77	Horizontal
4	11485.833	42.57	38.40	-29.97	51.00	54.00	3.00	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 149

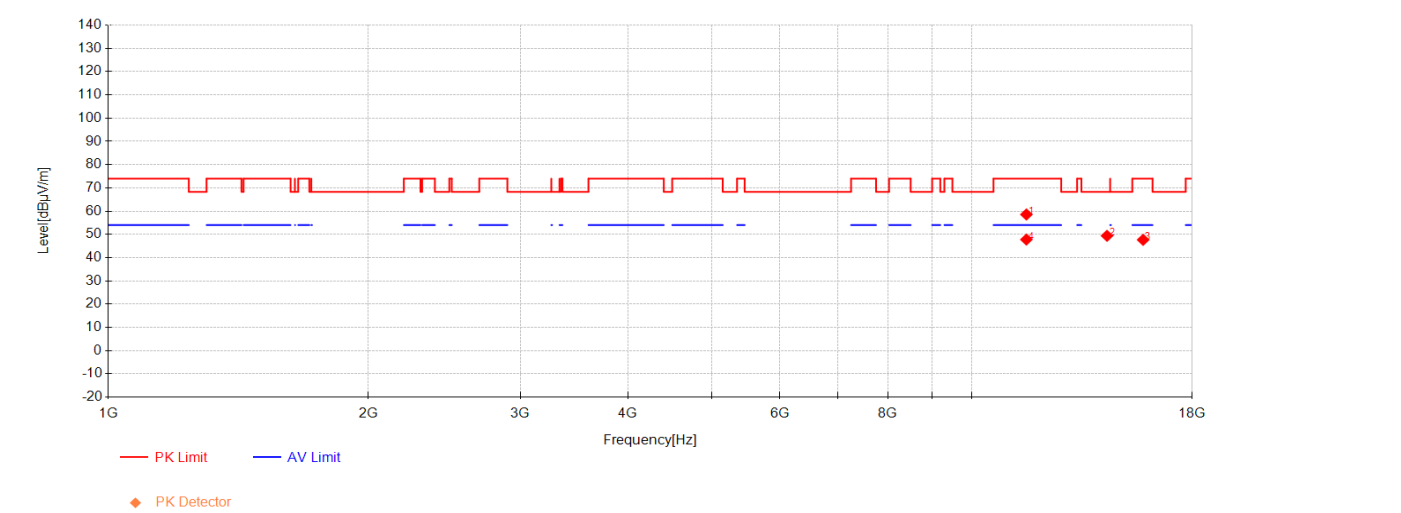


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11489.166	52.95	38.40	-29.98	61.37	74.00	12.63	Vertical
2	14389.166	37.53	40.22	-28.50	49.25	68.30	19.05	Vertical
3	17240.416	38.75	39.48	-25.21	53.02	68.30	15.28	Vertical
4	11489.583	44.92	38.40	-29.98	53.34	54.00	0.66	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 157

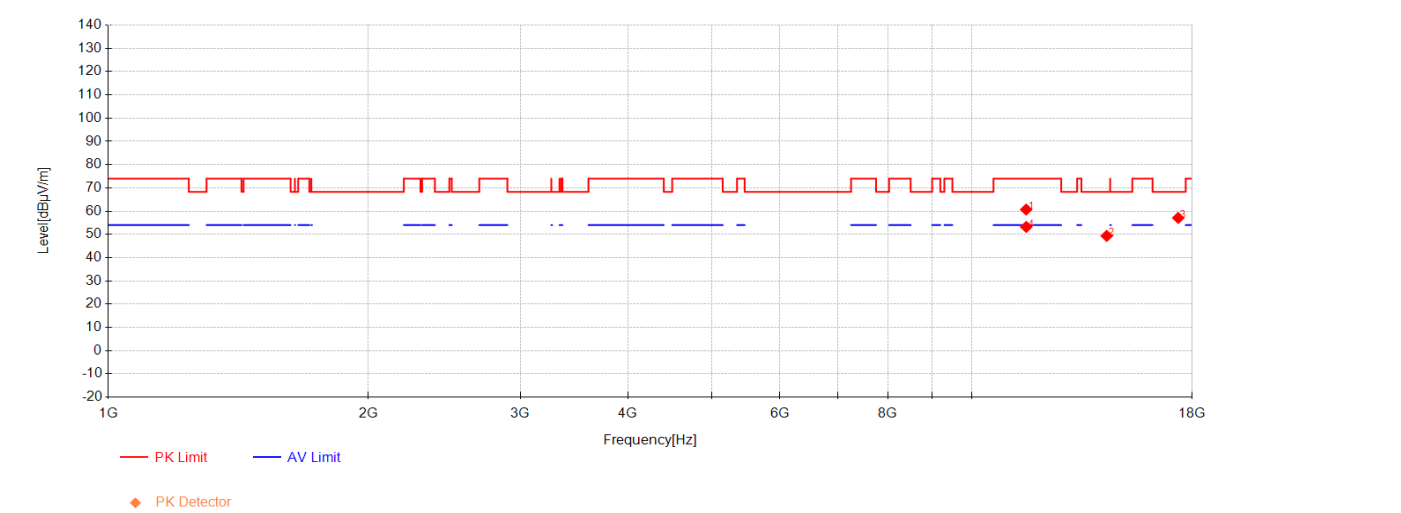


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11573.75	49.86	38.40	-29.70	58.56	74.00	15.44	Horizontal
2	14349.583	38.05	40.23	-28.90	49.38	68.30	18.92	Horizontal
3	15799.166	36.14	38.58	-27.06	47.66	74.00	26.34	Horizontal
4	11572.916	39.09	38.40	-29.70	47.79	54.00	6.21	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 157

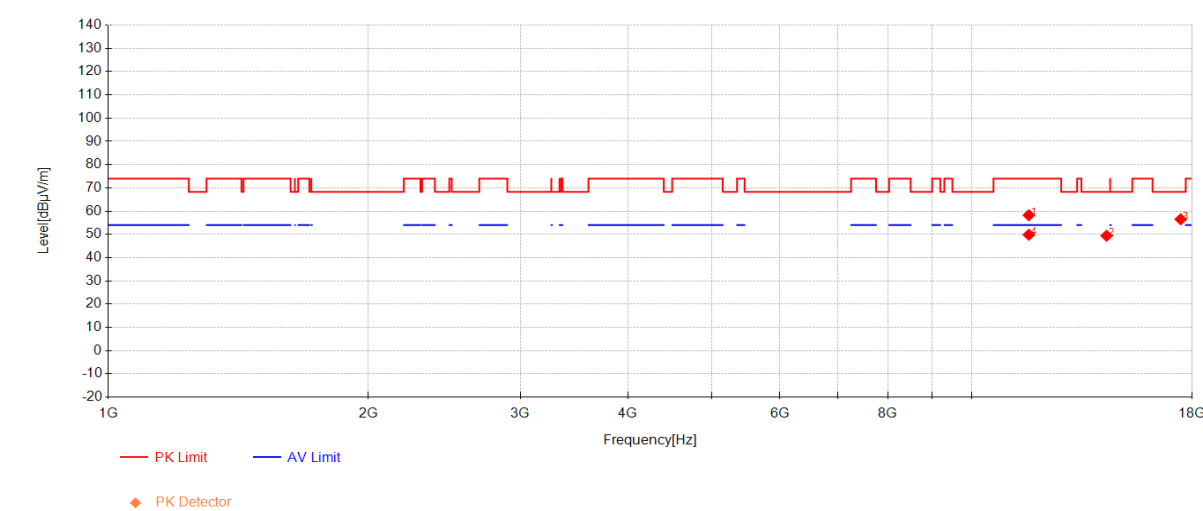


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11566.25	52.03	38.40	-29.73	60.70	74.00	13.30	Vertical
2	14338.333	38.15	40.23	-29.02	49.36	68.30	18.94	Vertical
3	17351.666	42.78	39.74	-25.45	57.08	68.30	11.22	Vertical
4	11569.166	44.53	38.40	-29.71	53.22	54.00	0.78	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 165

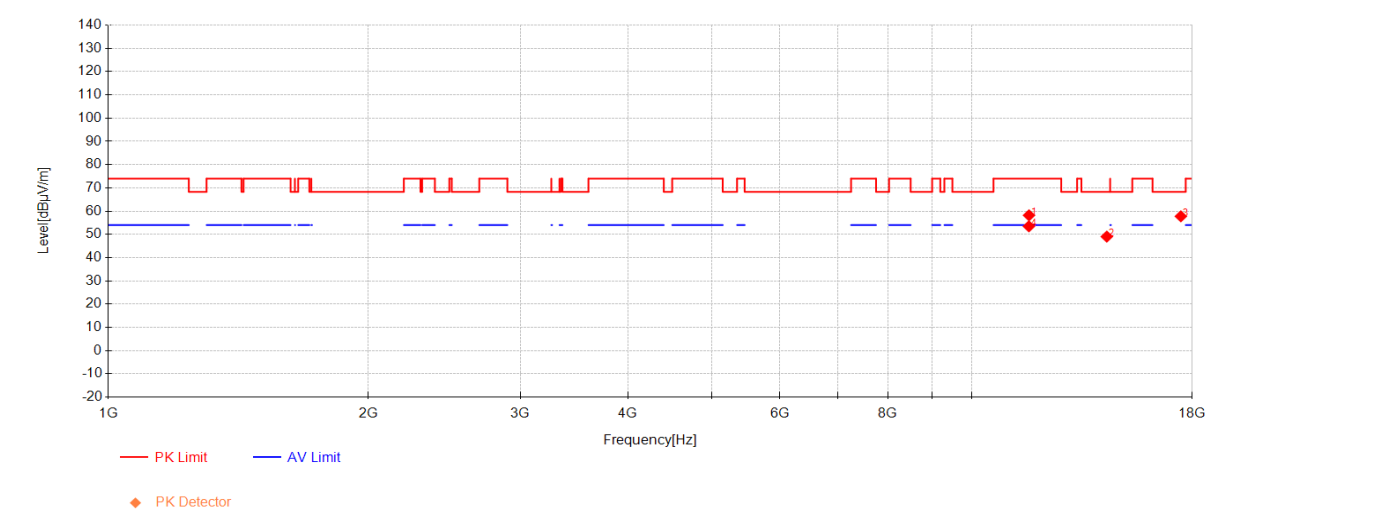


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11648.75	49.43	38.40	-29.59	58.24	74.00	15.76	Horizontal
2	14332.5	38.27	40.23	-29.08	49.42	68.30	18.88	Horizontal
3	17464.583	40.78	40.01	-24.29	56.50	68.30	11.80	Horizontal
4	11647.916	41.02	38.40	-29.59	49.83	54.00	4.17	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax20_Channel 165

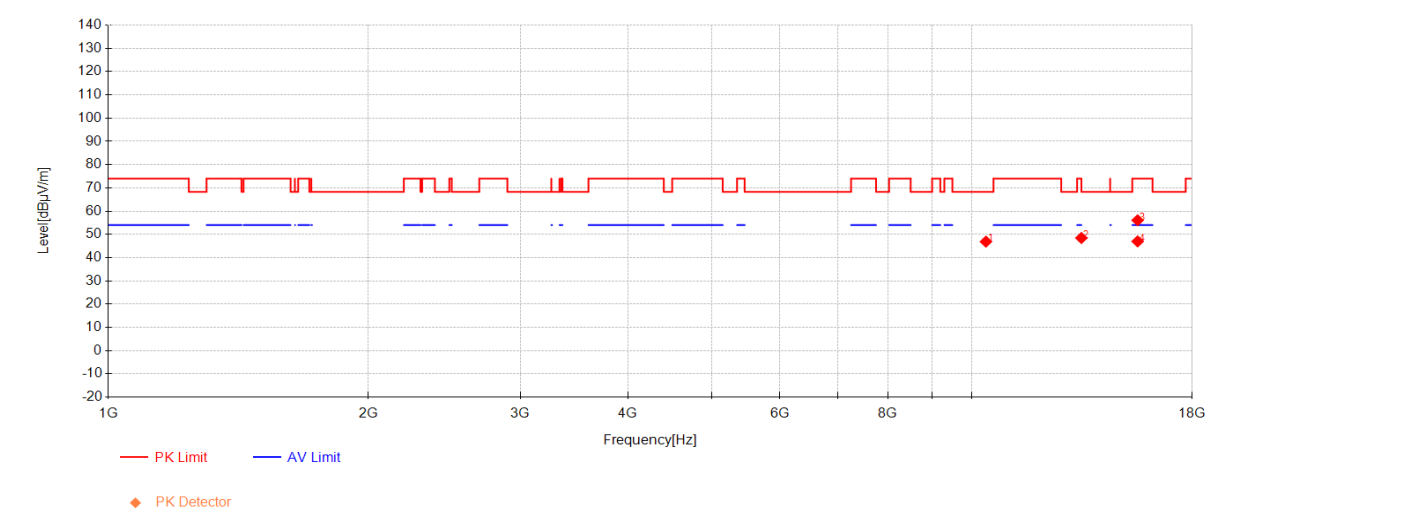


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11654.583	49.39	38.40	-29.60	58.19	74.00	15.81	Vertical
2	14340.833	37.81	40.23	-28.99	49.05	68.30	19.25	Vertical
3	17472.916	41.92	40.03	-24.19	57.77	68.30	10.53	Vertical
4	11650.833	44.65	38.40	-29.60	53.45	54.00	0.55	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 38

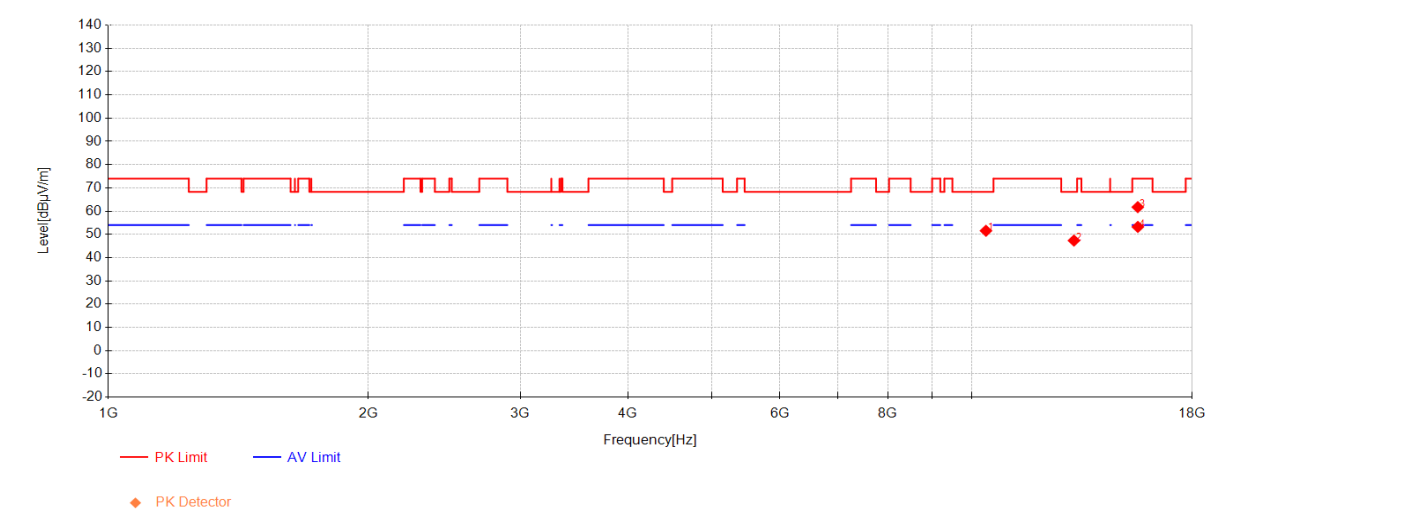


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10390.416	40.02	38.10	-31.24	46.88	68.30	21.42	Horizontal
2	13401.25	37.50	39.88	-28.92	48.46	68.30	19.84	Horizontal
3	15569.583	44.58	39.02	-27.52	56.08	74.00	17.92	Horizontal
4	15570	35.49	39.02	-27.52	46.99	54.00	7.01	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 38

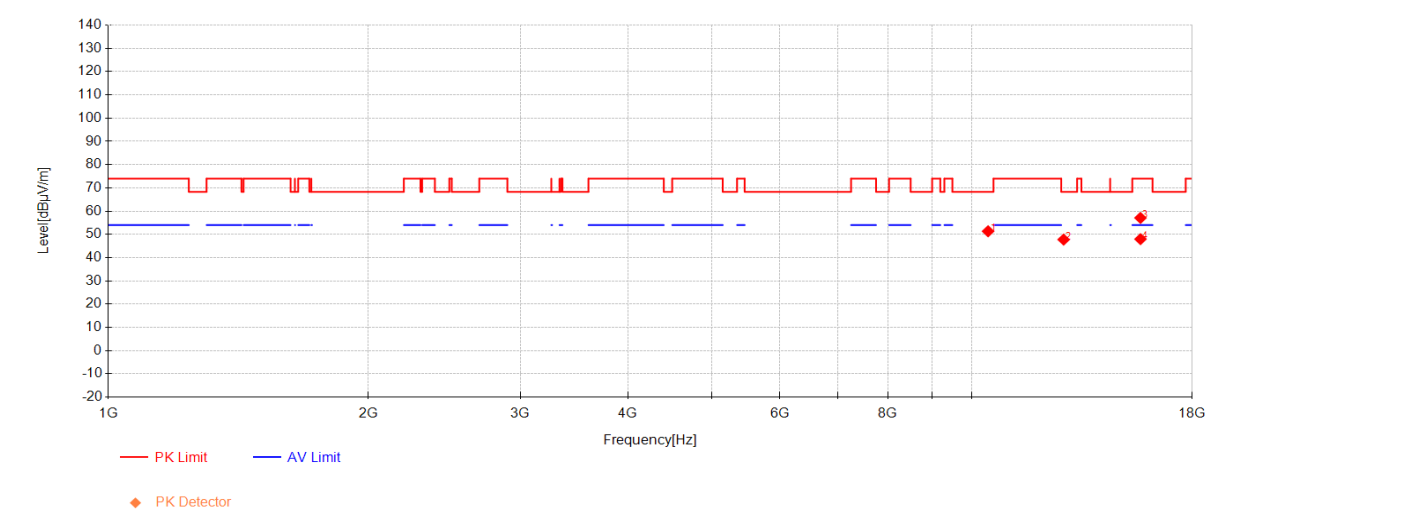


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10390.416	44.69	38.10	-31.24	51.55	68.30	16.75	Vertical
2	13137.5	36.66	39.70	-29.01	47.34	68.30	20.96	Vertical
3	15575.833	50.21	39.01	-27.50	61.71	74.00	12.29	Vertical
4	15578.75	41.72	39.00	-27.50	53.22	54.00	0.78	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 46

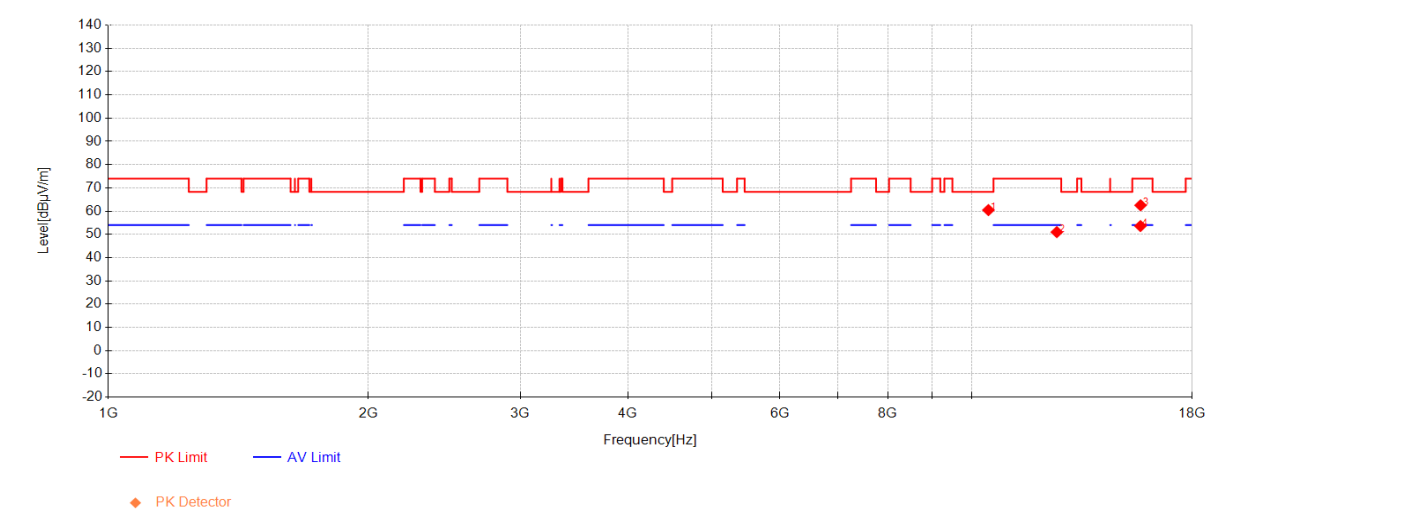


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10449.166	44.30	38.12	-31.10	51.33	68.30	16.97	Horizontal
2	12781.25	38.26	39.34	-29.84	47.76	68.30	20.54	Horizontal
3	15687.916	46.19	38.79	-27.89	57.09	74.00	16.91	Horizontal
4	15689.166	37.07	38.79	-27.90	47.96	54.00	6.04	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 46

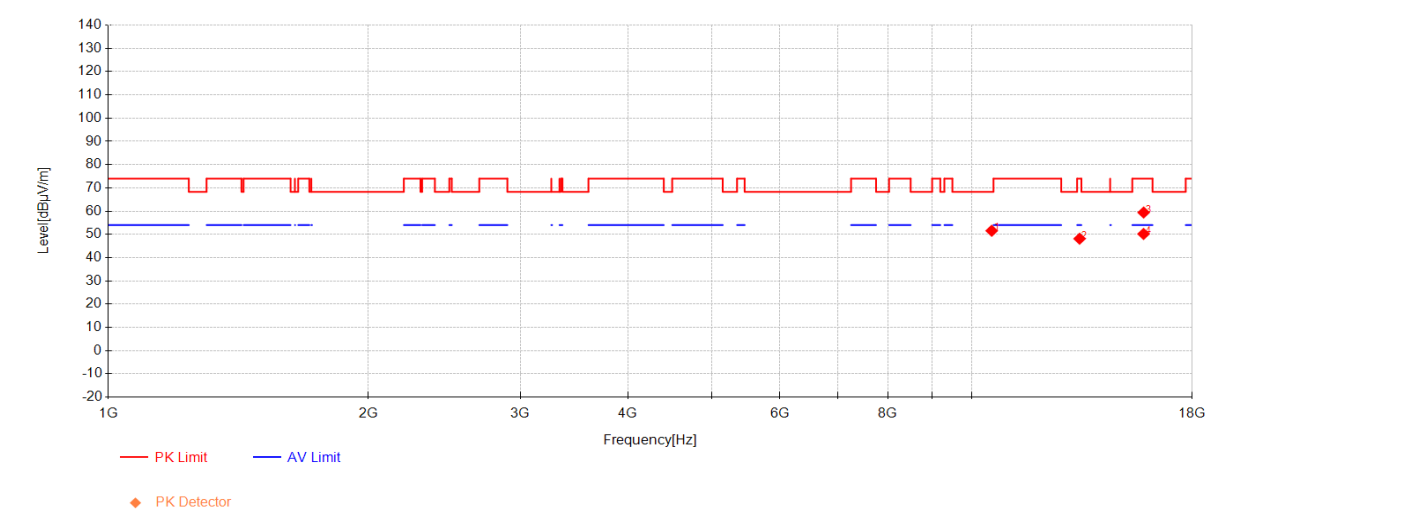


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10457.916	53.41	38.13	-31.08	60.45	68.30	7.85	Vertical
2	12551.25	41.77	39.06	-29.85	50.98	74.00	23.02	Vertical
3	15693.333	51.63	38.78	-27.92	62.50	74.00	11.50	Vertical
4	15687.916	42.69	38.79	-27.89	53.59	54.00	0.41	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 54

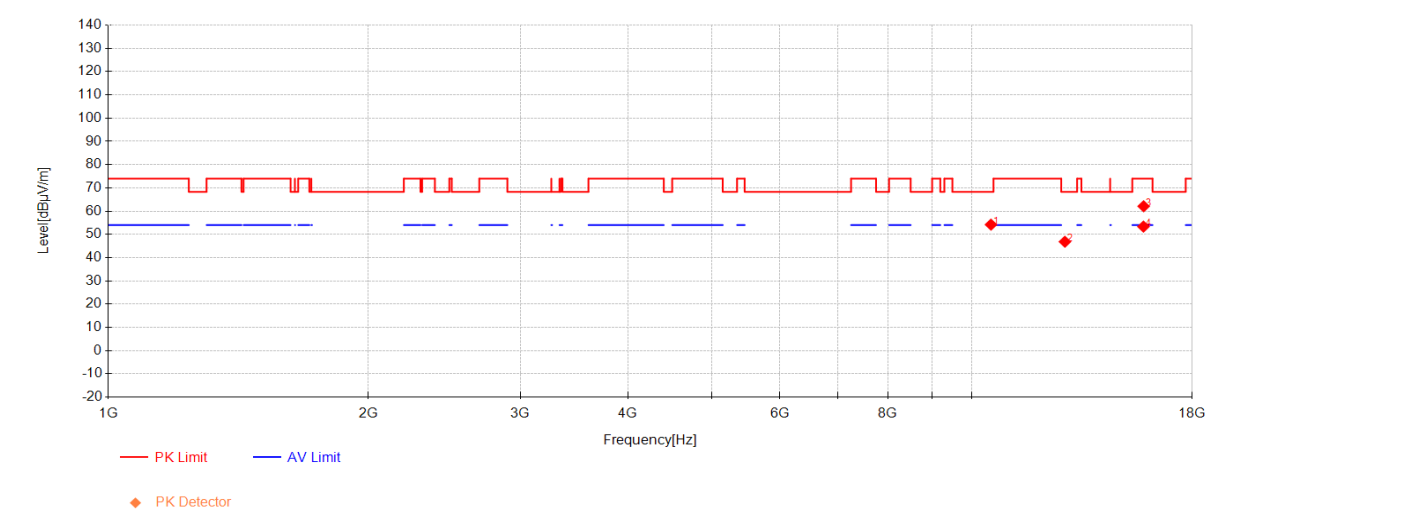


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10550	44.49	38.17	-31.11	51.55	68.30	16.75	Horizontal
2	13337.083	37.53	39.84	-29.23	48.14	74.00	25.86	Horizontal
3	15822.083	48.01	38.54	-27.14	59.40	74.00	14.60	Horizontal
4	15818.333	38.76	38.55	-27.13	50.18	54.00	3.82	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 54

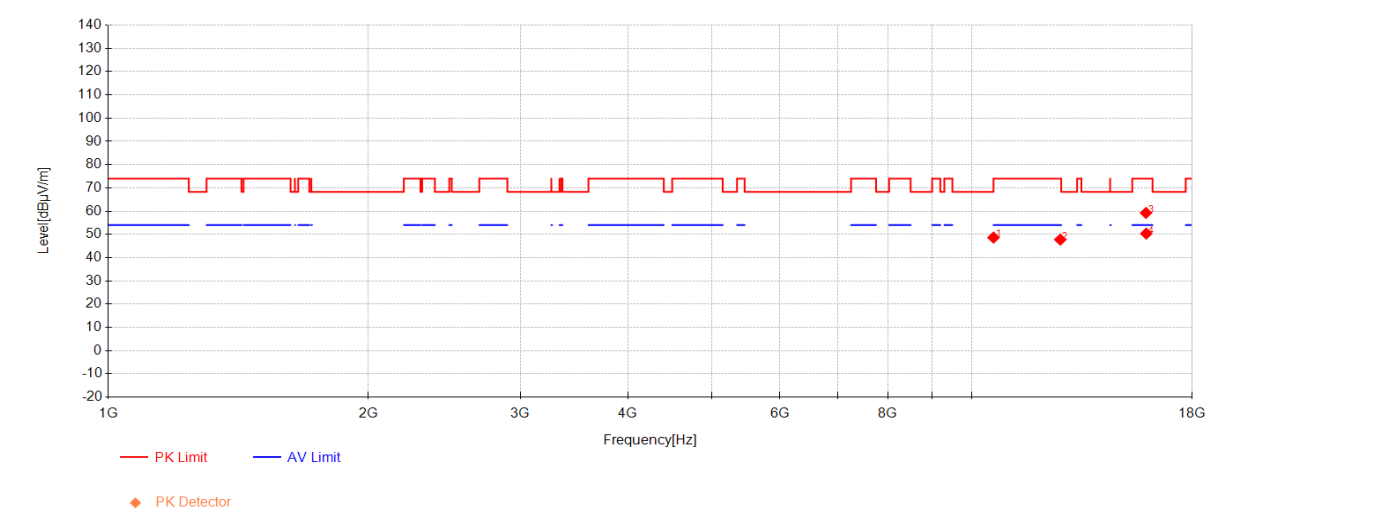


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10530	47.11	38.16	-31.08	54.19	68.30	14.11	Vertical
2	12824.166	37.24	39.39	-29.79	46.84	68.30	21.46	Vertical
3	15822.083	50.70	38.54	-27.14	62.09	74.00	11.91	Vertical
4	15813.333	41.90	38.55	-27.11	53.35	54.00	0.65	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 62

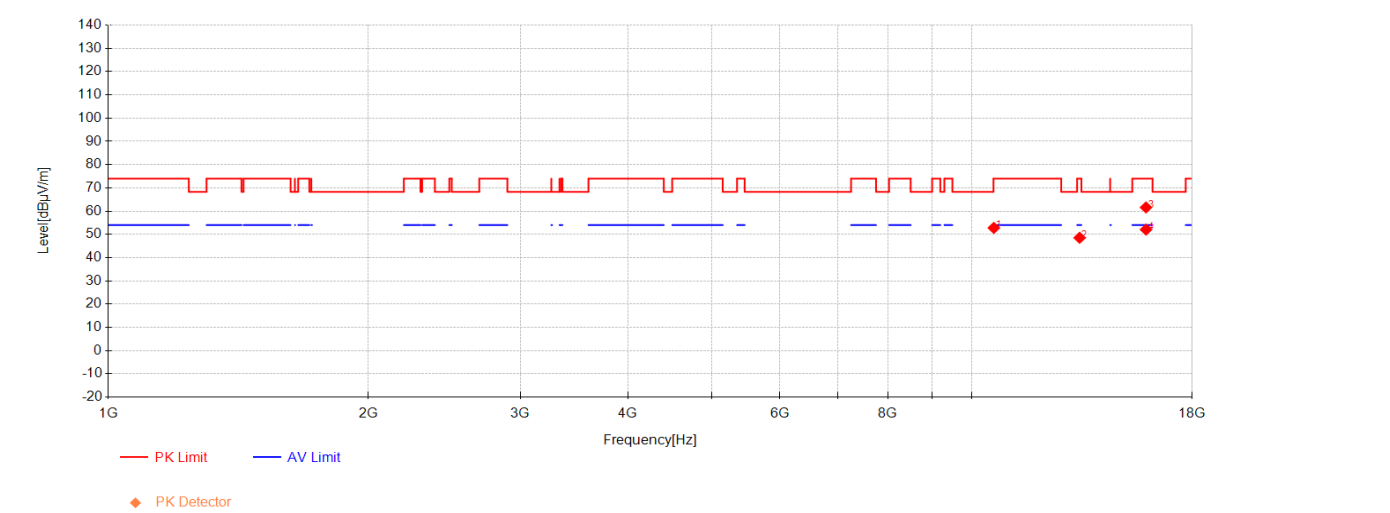


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10600.833	41.61	38.20	-31.19	48.62	74.00	25.38	Horizontal
2	12668.333	38.18	39.20	-29.64	47.74	74.00	26.26	Horizontal
3	15919.583	48.35	38.35	-27.47	59.23	74.00	14.77	Horizontal
4	15931.666	39.47	38.33	-27.46	50.34	54.00	3.66	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 62

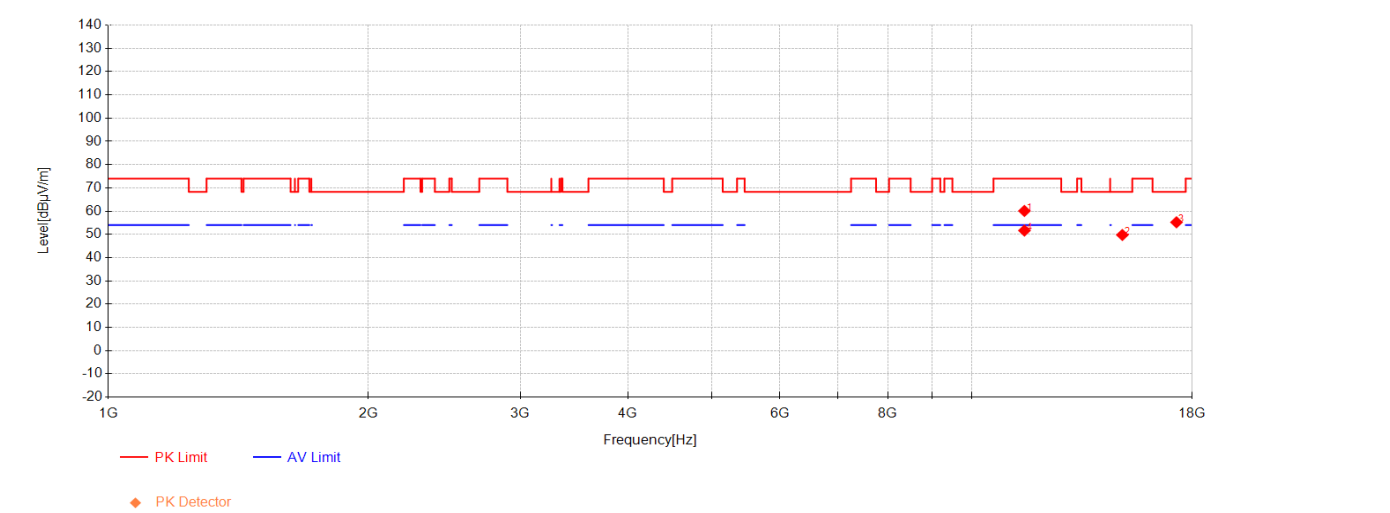


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10609.583	45.69	38.20	-31.11	52.78	74.00	21.22	Vertical
2	13338.333	37.92	39.84	-29.22	48.53	74.00	25.47	Vertical
3	15921.25	50.70	38.35	-27.47	61.58	74.00	12.42	Vertical
4	15922.916	41.17	38.35	-27.47	52.05	54.00	1.95	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 151

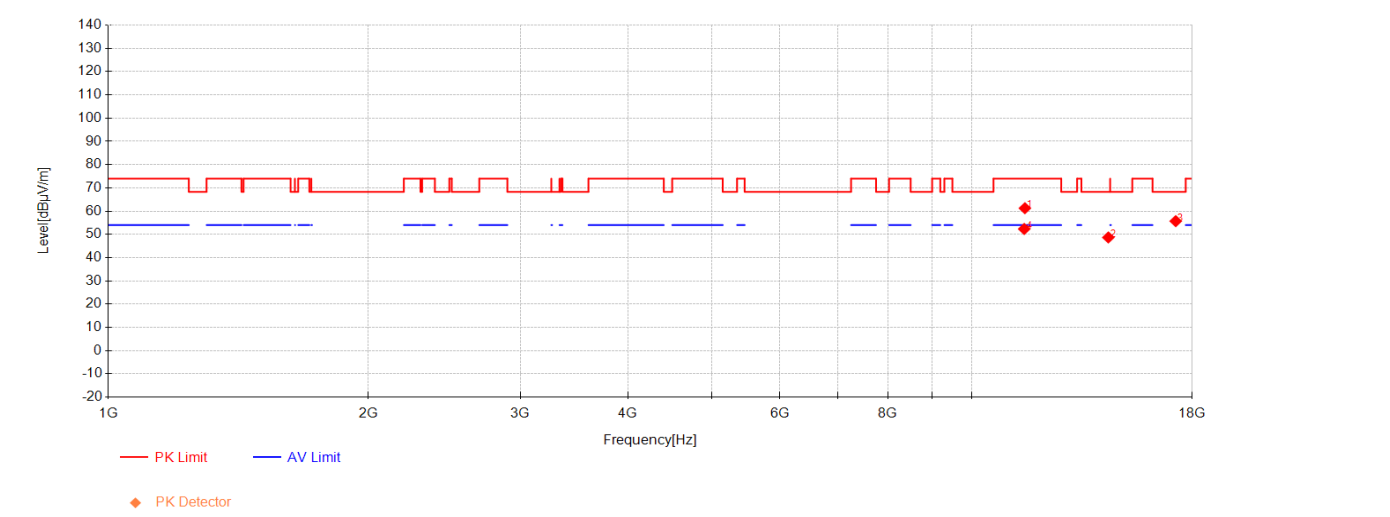


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11512.083	51.62	38.40	-29.94	60.08	74.00	13.92	Horizontal
2	14947.5	37.67	40.11	-28.04	49.74	68.30	18.56	Horizontal
3	17269.583	41.15	39.55	-25.50	55.20	68.30	13.10	Horizontal
4	11512.5	43.18	38.40	-29.94	51.64	54.00	2.36	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 151

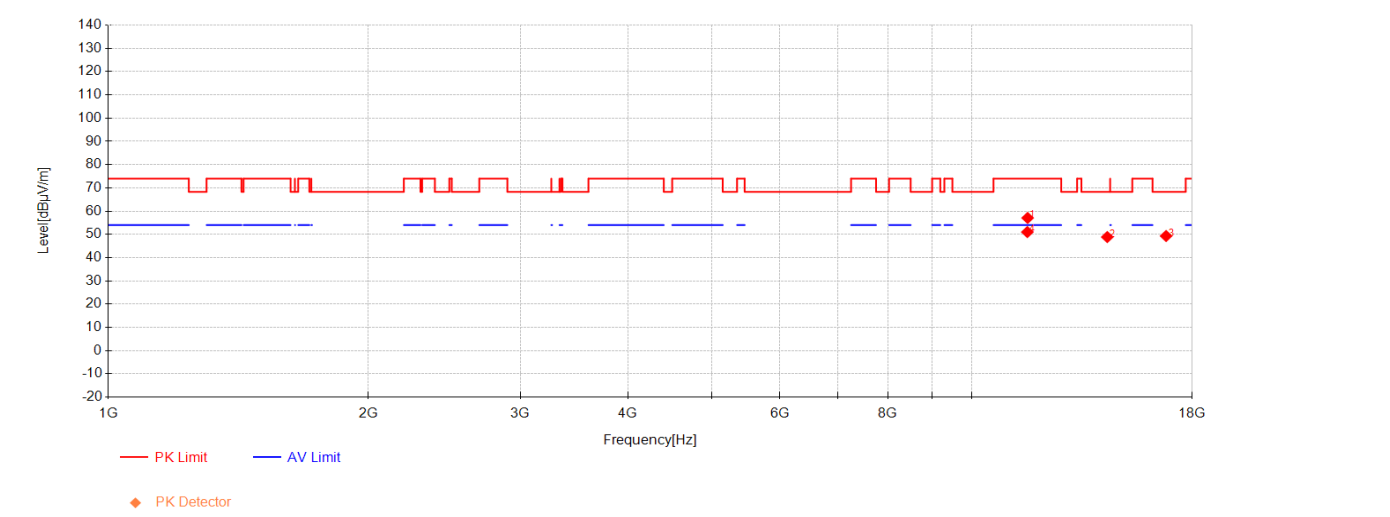


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11527.916	52.74	38.40	-29.88	61.26	74.00	12.74	Vertical
2	14400	36.85	40.22	-28.39	48.68	68.30	19.62	Vertical
3	17234.583	41.38	39.46	-25.15	55.69	68.30	12.61	Vertical
4	11505.416	43.90	38.40	-29.97	52.33	54.00	1.67	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 159

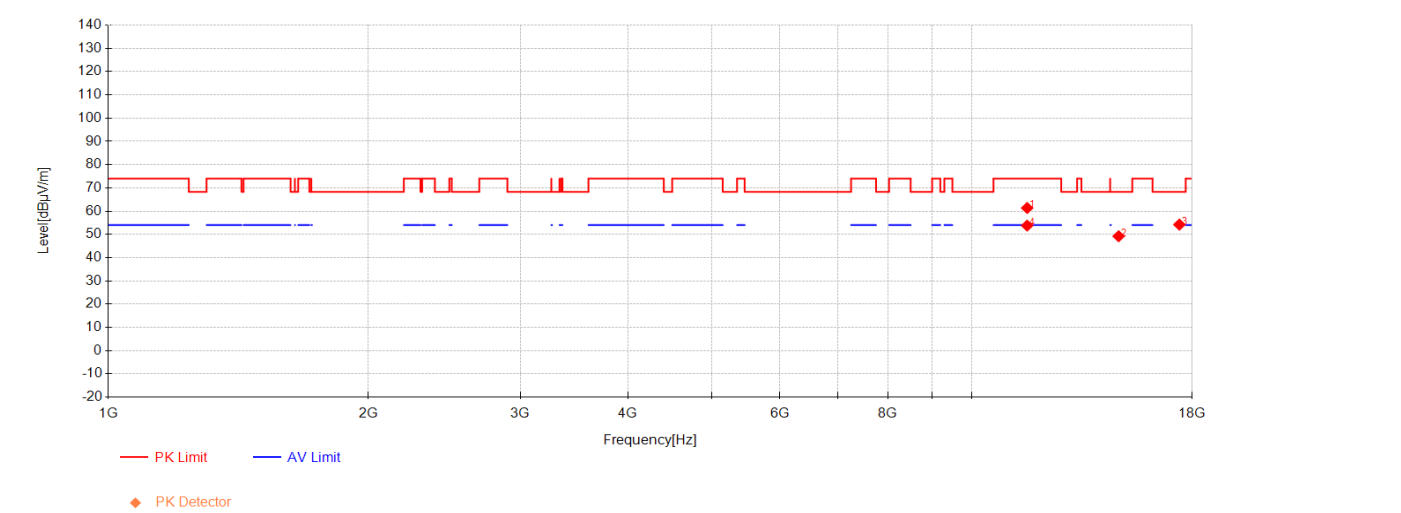


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11611.25	48.27	38.40	-29.59	57.08	74.00	16.92	Horizontal
2	14358.75	37.44	40.23	-28.81	48.86	68.30	19.44	Horizontal
3	16798.333	36.72	38.76	-26.17	49.31	68.30	18.99	Horizontal
4	11602.083	42.19	38.40	-29.59	51.00	54.00	3.00	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax40_Channel 159

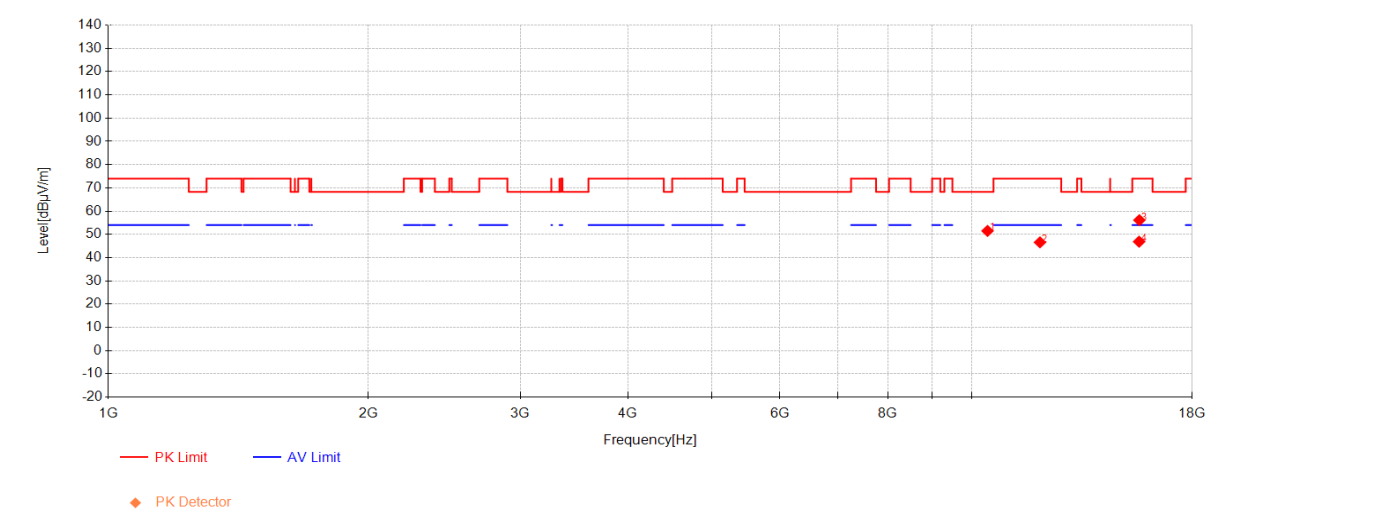


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11597.5	52.54	38.40	-29.60	61.34	74.00	12.66	Vertical
2	14800.833	36.37	40.14	-27.30	49.21	68.30	19.09	Vertical
3	17402.916	39.43	39.87	-25.08	54.21	68.30	14.09	Vertical
4	11596.25	44.98	38.40	-29.61	53.77	54.00	0.23	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 42

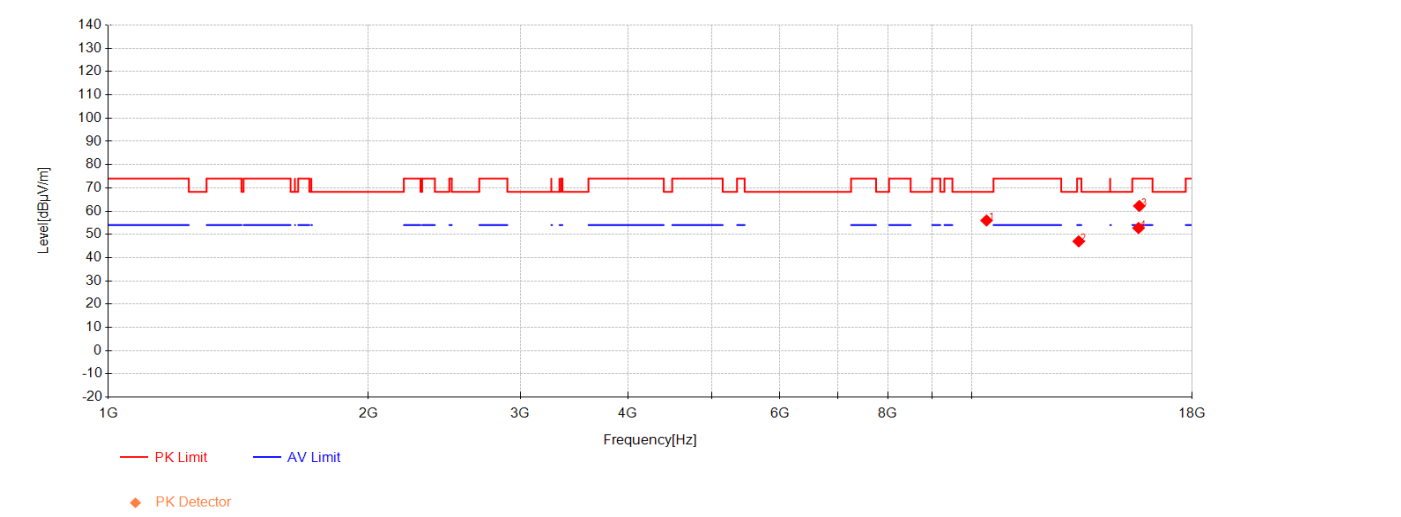


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10434.166	44.50	38.12	-31.12	51.50	68.30	16.80	Horizontal
2	12000	37.48	38.40	-29.30	46.58	74.00	27.42	Horizontal
3	15643.333	44.92	38.88	-27.67	56.13	74.00	17.87	Horizontal
4	15631.666	35.58	38.90	-27.61	46.87	54.00	7.13	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 42

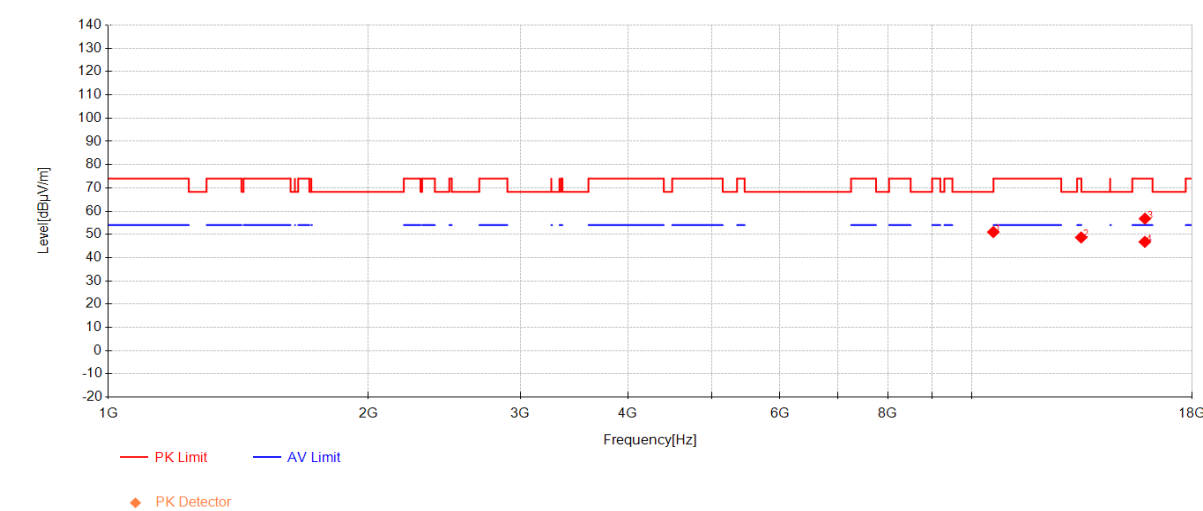


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10406.666	49.02	38.10	-31.15	55.97	68.30	12.33	Vertical
2	13306.666	36.57	39.81	-29.39	47.00	74.00	27.00	Vertical
3	15640	50.99	38.88	-27.65	62.22	74.00	11.78	Vertical
4	15610	41.30	38.94	-27.50	52.74	54.00	1.26	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 58

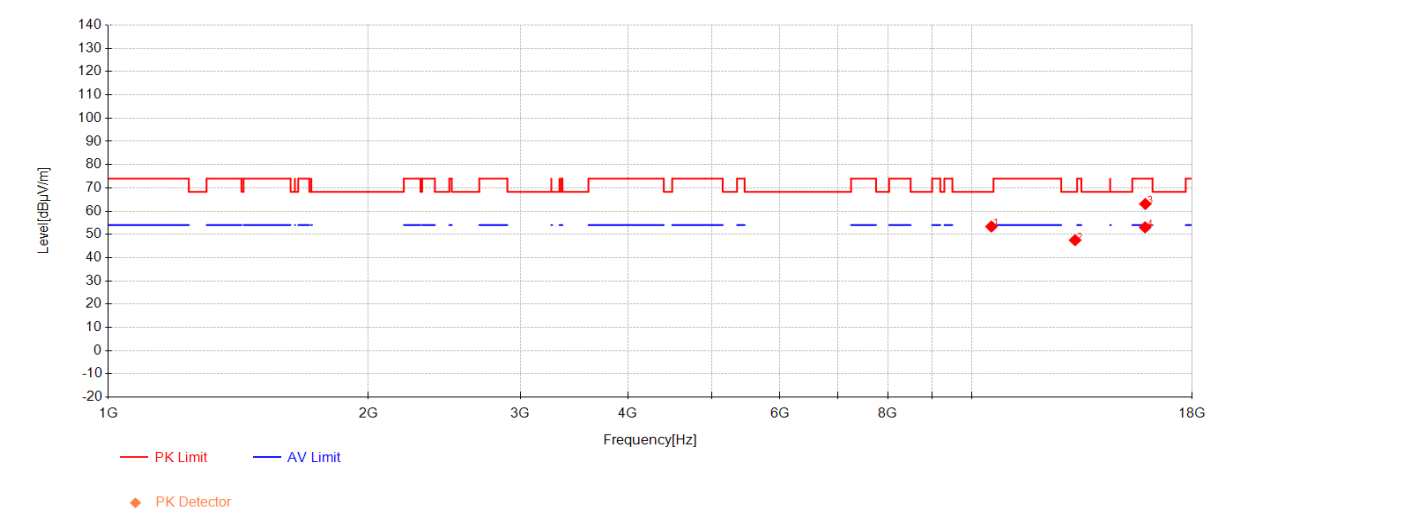


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	10596.25	43.99	38.20	-31.19	50.99	68.30	17.31	Horizontal
2	13393.333	37.75	39.88	-28.94	48.68	74.00	25.32	Horizontal
3	15877.083	45.72	38.43	-27.38	56.77	74.00	17.23	Horizontal
4	15872.5	35.70	38.44	-27.36	46.78	54.00	7.22	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 58

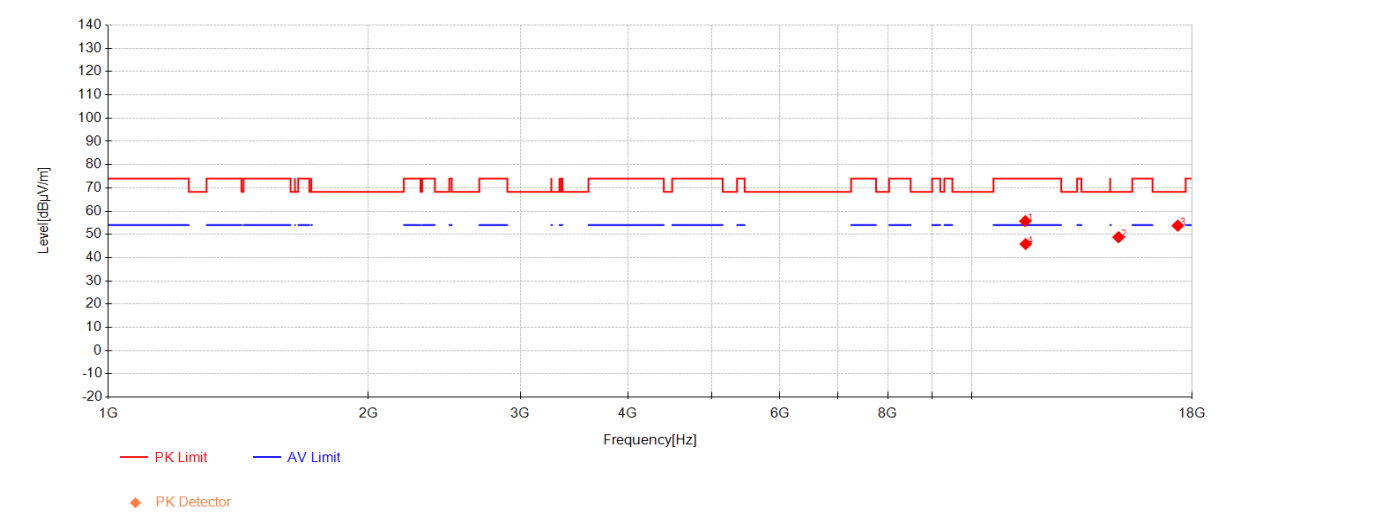


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	10541.25	46.30	38.17	-31.10	53.37	68.30	14.93	Vertical
2	13179.166	36.94	39.73	-29.15	47.51	68.30	20.79	Vertical
3	15892.083	52.13	38.41	-27.45	63.09	74.00	10.91	Vertical
4	15884.166	42.02	38.42	-27.41	53.03	54.00	0.97	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 155

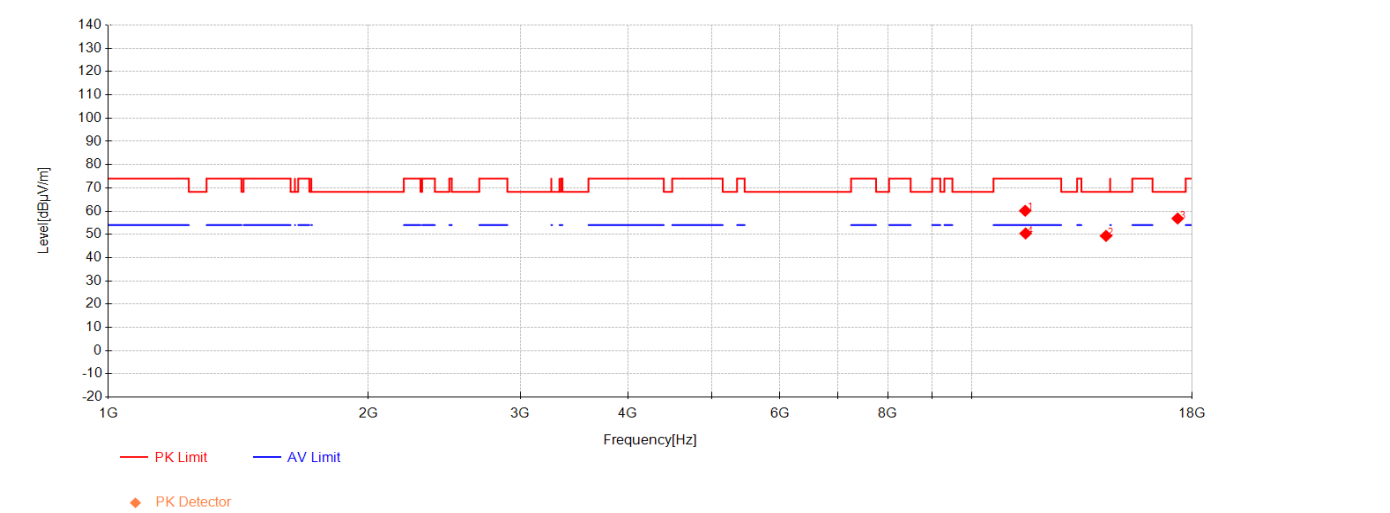


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11540.833	47.13	38.40	-29.83	55.70	74.00	18.30	Horizontal
2	14797.5	35.96	40.14	-27.32	48.78	68.30	19.52	Horizontal
3	17331.666	39.64	39.70	-25.58	53.75	68.30	14.55	Horizontal
4	11550.833	37.24	38.40	-29.79	45.85	54.00	8.15	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ax80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11536.666	51.61	38.40	-29.84	60.17	74.00	13.83	Vertical
2	14312.5	38.40	40.24	-29.28	49.35	68.30	18.95	Vertical
3	17324.583	42.77	39.68	-25.63	56.82	68.30	11.48	Vertical
4	11549.166	41.79	38.40	-29.79	50.40	54.00	3.60	Vertical



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 120 of 364

7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

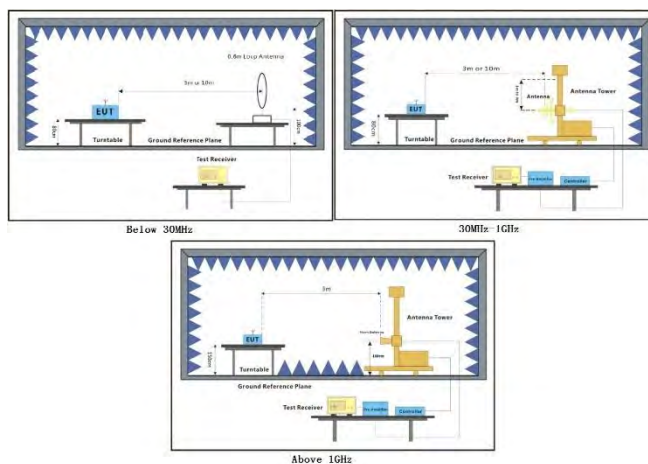
Humidity: 46 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204

Page: 122 of 364

7.5.4 Measurement Procedure and Data

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

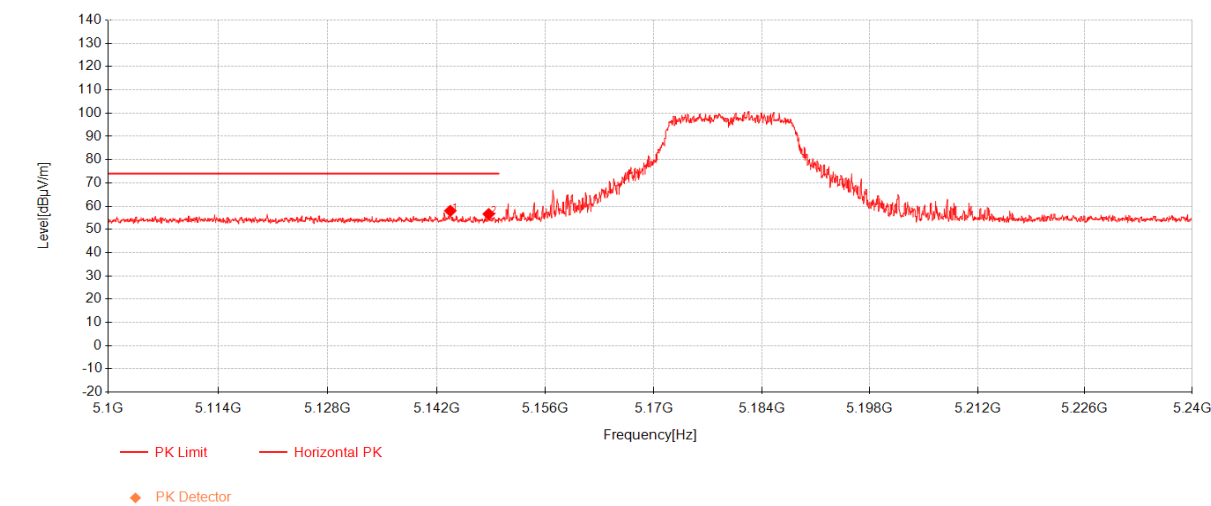
Remark1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark2: Average Measurements Above 1000MHz, $\text{VBW} = 10 \text{ Hz}$ (when duty cycle is no less than 98 percent). $\text{VBW} \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

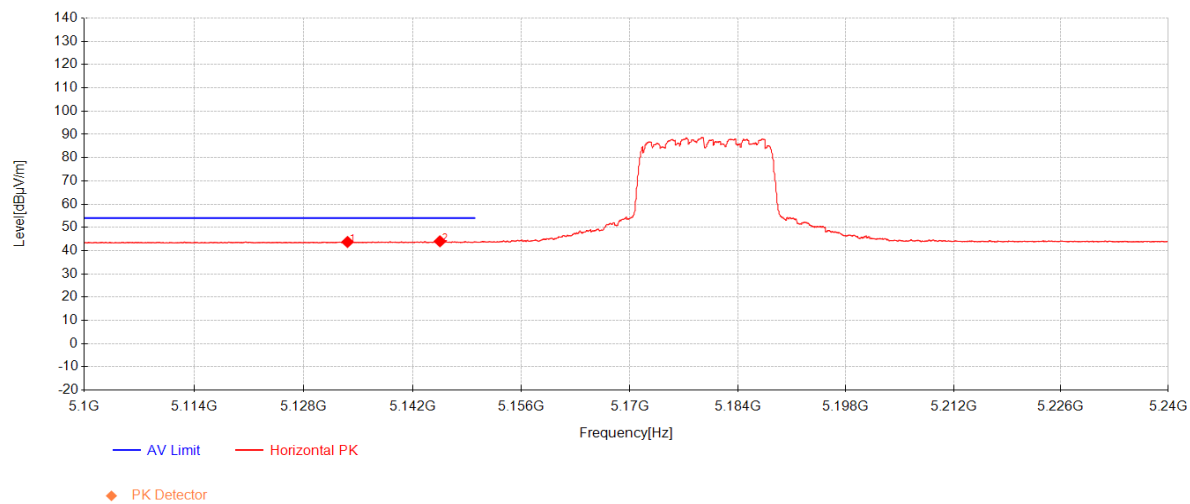


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.785	39.63	33.17	-14.82	57.98	74.00	16.02	Horizontal
2	5148.72	38.24	33.17	-14.80	56.61	74.00	17.39	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

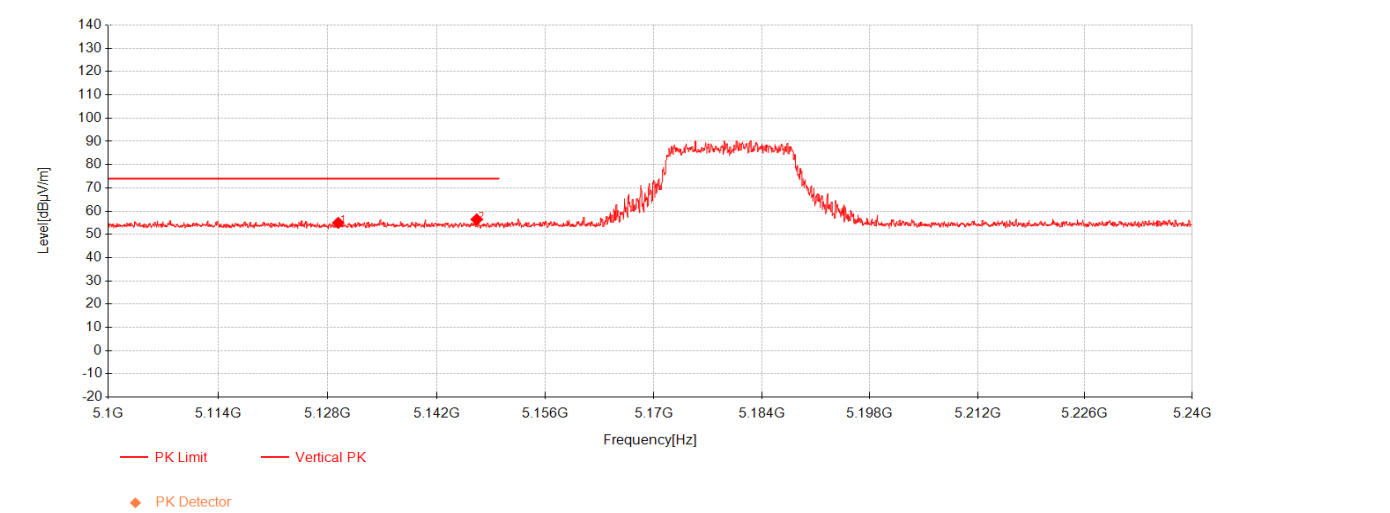


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5133.67	25.42	33.17	-14.86	43.73	54.00	10.27	Horizontal
2	5145.535	25.66	33.17	-14.81	44.02	54.00	9.98	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

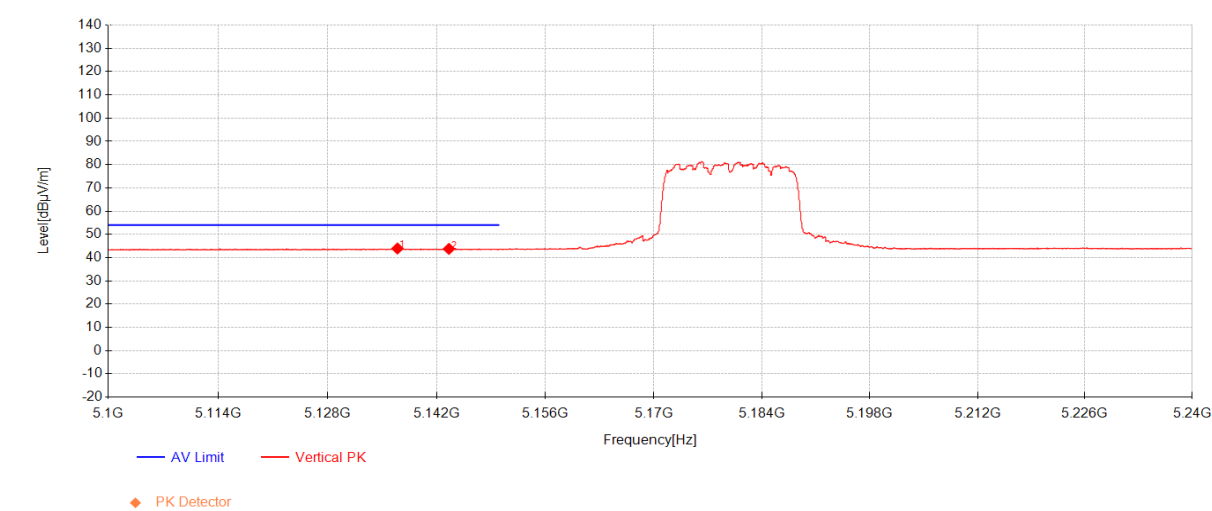


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5129.4	36.67	33.17	-14.88	54.96	74.00	19.04	Vertical
2	5147.18	38.05	33.17	-14.80	56.42	74.00	17.58	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 36

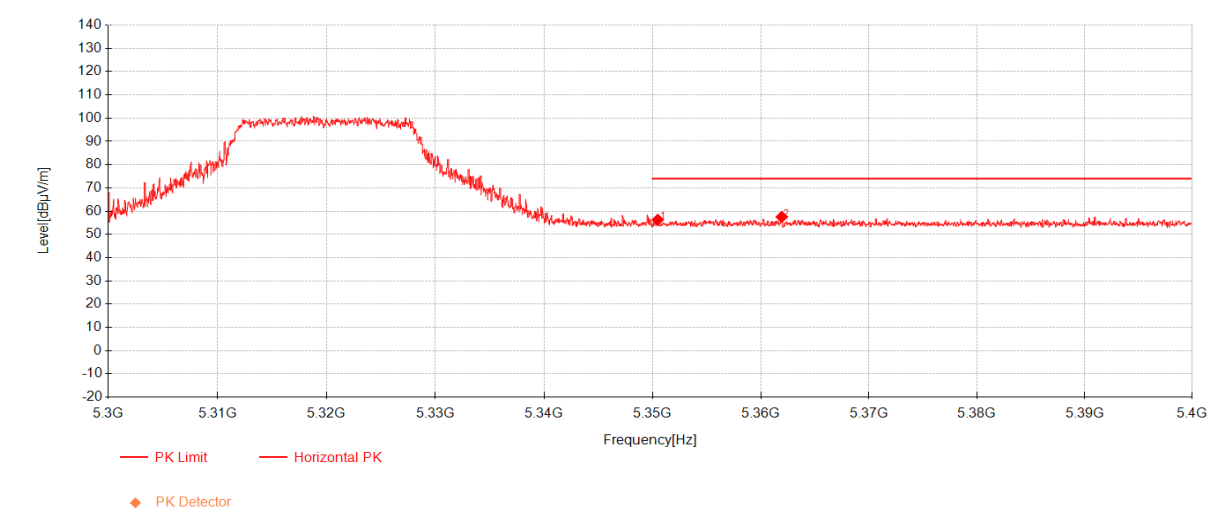


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5136.995	25.60	33.17	-14.85	43.93	54.00	10.07	Vertical
2	5143.61	25.41	33.17	-14.82	43.76	54.00	10.24	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

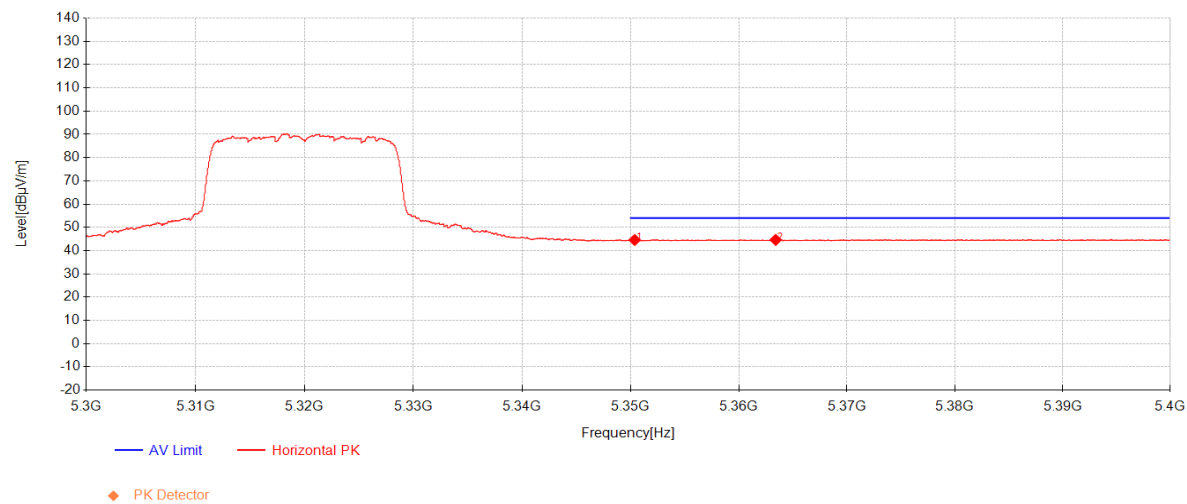


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.475	37.27	33.13	-14.10	56.30	74.00	17.70	Horizontal
2	5361.925	38.52	33.13	-14.12	57.53	74.00	16.47	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

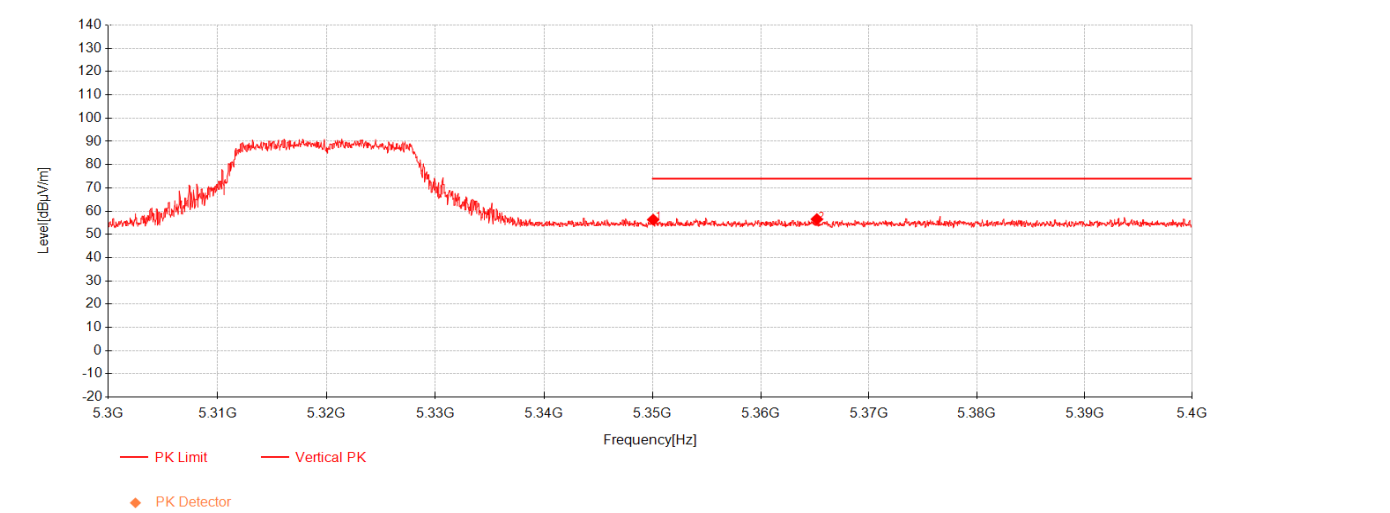


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.375	25.57	33.13	-14.10	44.60	54.00	9.40	Horizontal
2	5363.4	25.63	33.13	-14.12	44.63	54.00	9.37	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

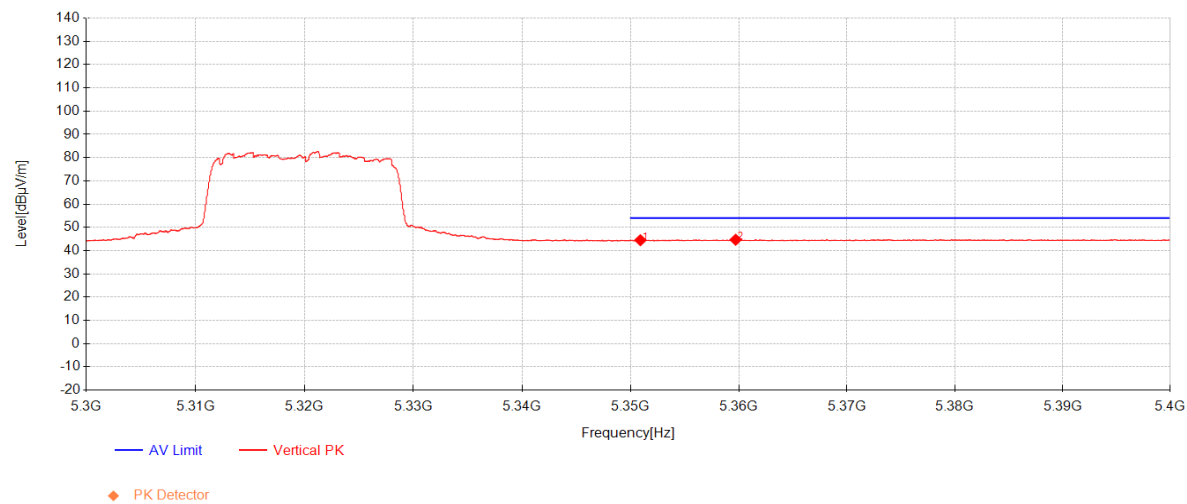


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5350.05	37.27	33.13	-14.10	56.30	74.00	17.70	Vertical
2	5365.175	37.52	33.13	-14.13	56.52	74.00	17.48	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 64

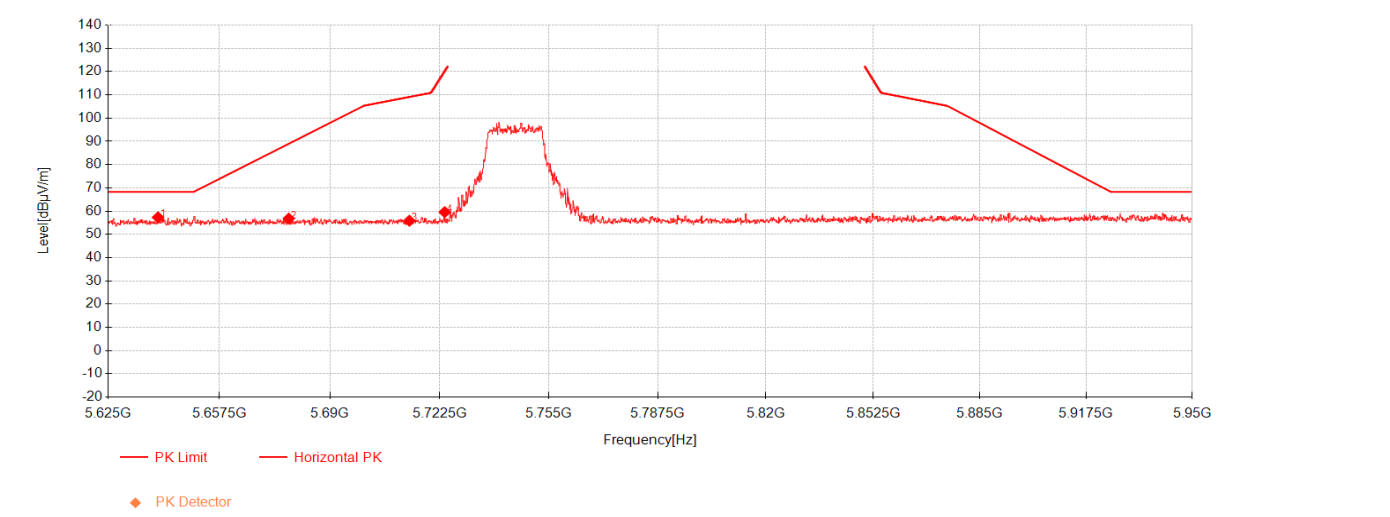


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5350.9	25.46	33.13	-14.10	44.49	54.00	9.51	Vertical
2	5359.7	25.68	33.13	-14.12	44.69	54.00	9.31	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 149

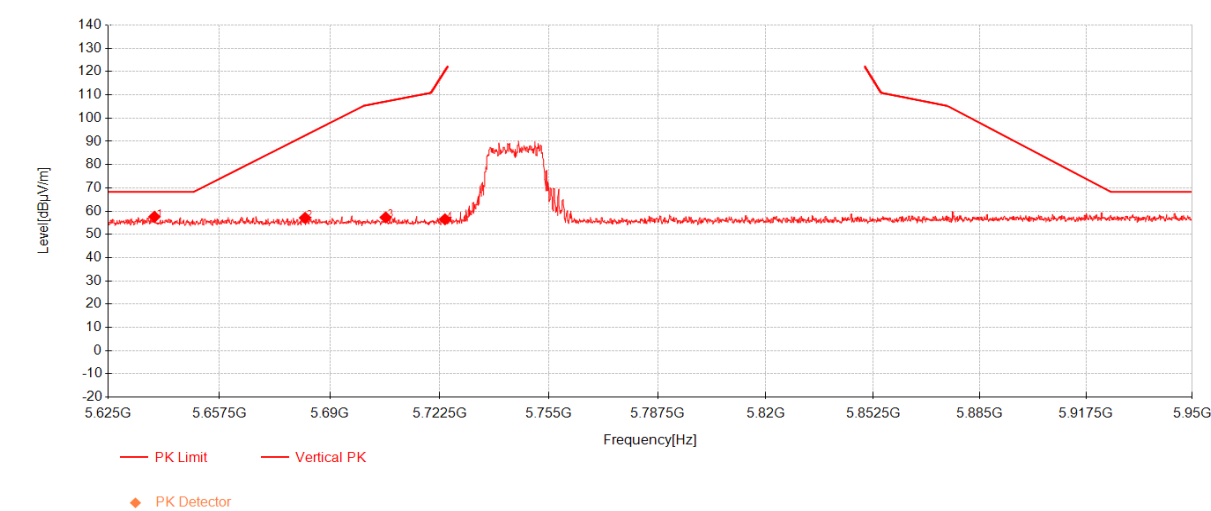


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5639.5438	37.43	33.57	-13.68	57.33	68.30	10.97	Horizontal
2	5677.8938	36.78	33.70	-13.67	56.81	88.98	32.17	Horizontal
3	5713.4812	35.70	33.83	-13.64	55.88	109.08	53.20	Horizontal
4	5723.9625	39.34	33.86	-13.62	59.58	119.94	60.36	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5638.4875	37.68	33.57	-13.68	57.57	68.30	10.73	Vertical
2	5682.6875	37.05	33.72	-13.67	57.10	92.53	35.43	Vertical
3	5706.4938	37.13	33.80	-13.66	57.28	107.12	49.84	Vertical
4	5724.0438	36.24	33.86	-13.62	56.48	120.12	63.64	Vertical

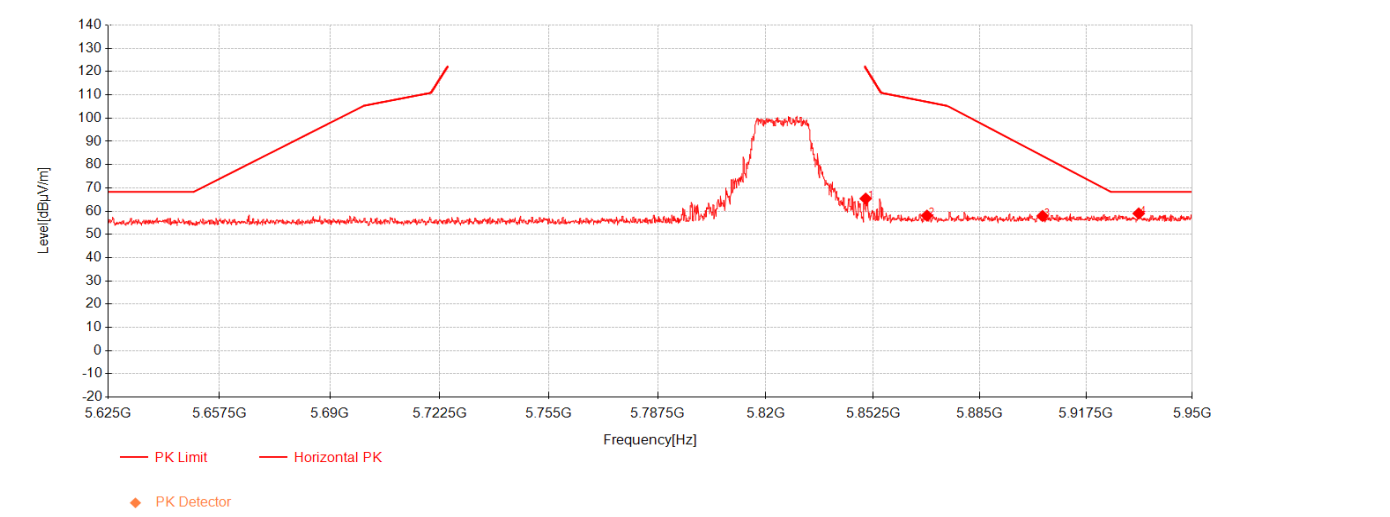


Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204
Page: 133 of 364

802.11a_Channel 165

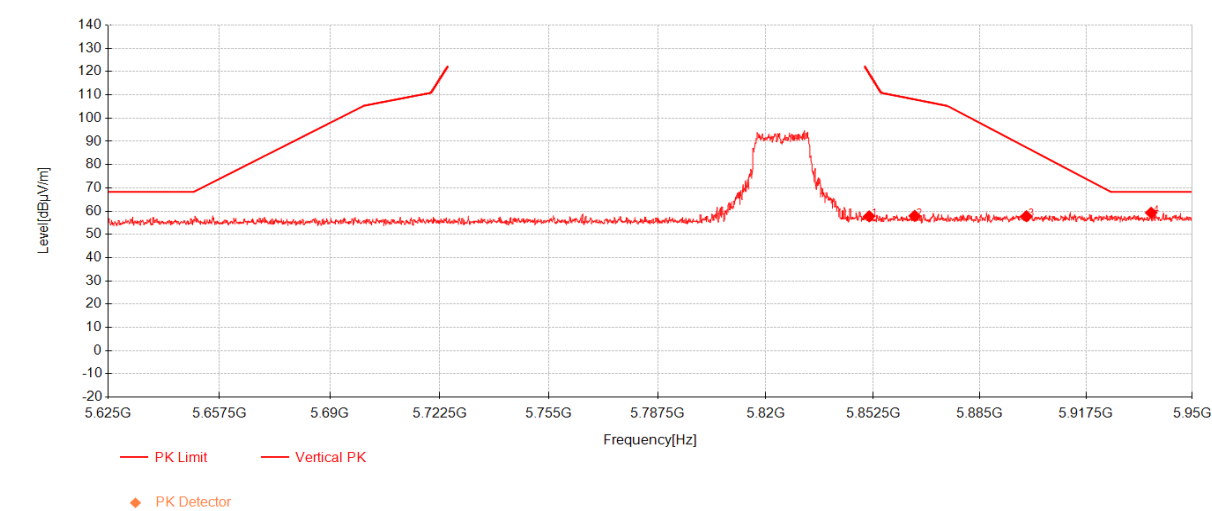


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5850.225	44.29	34.29	-13.21	65.37	121.79	56.42	Horizontal
2	5868.8312	36.83	34.35	-13.12	58.07	107.03	48.96	Horizontal
3	5904.0938	36.42	34.47	-12.98	57.92	83.73	25.81	Horizontal
4	5933.5875	37.51	34.57	-13.09	59.00	68.30	9.30	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11a_Channel 165



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5851.2812	36.68	34.29	-13.20	57.77	119.38	61.61	Vertical
2	5865.0938	36.74	34.34	-13.13	57.95	108.07	50.12	Vertical
3	5899.1375	36.33	34.46	-12.96	57.82	87.40	29.58	Vertical
4	5937.4062	37.81	34.59	-13.10	59.30	68.30	9.00	Vertical

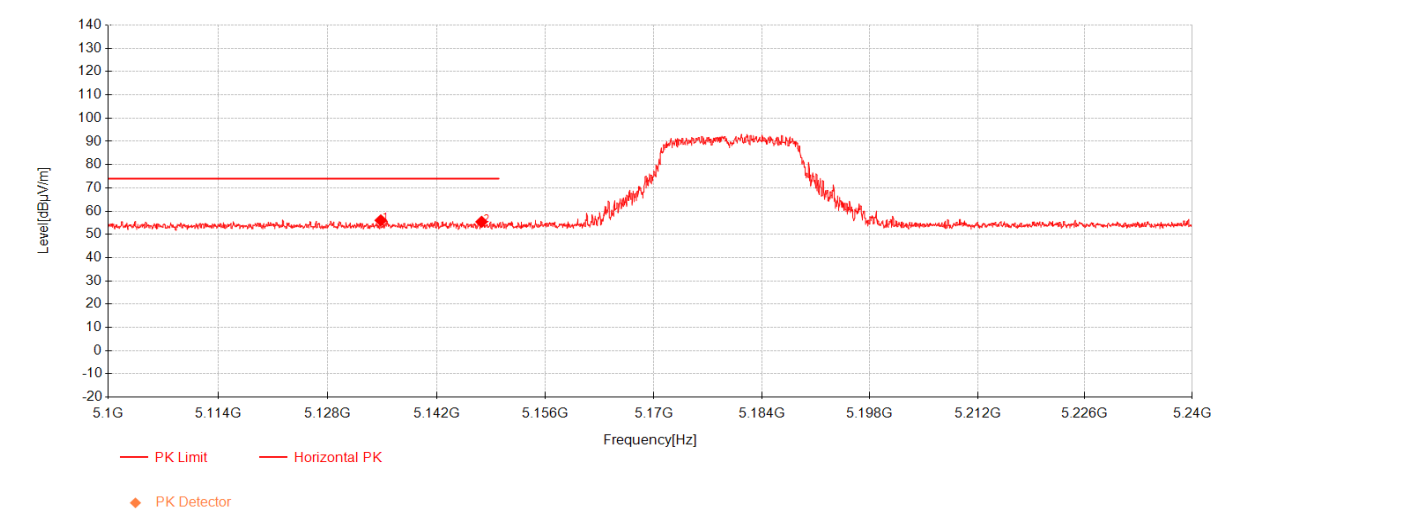


Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204
Page: 135 of 364

802.11ac20_Channel 36

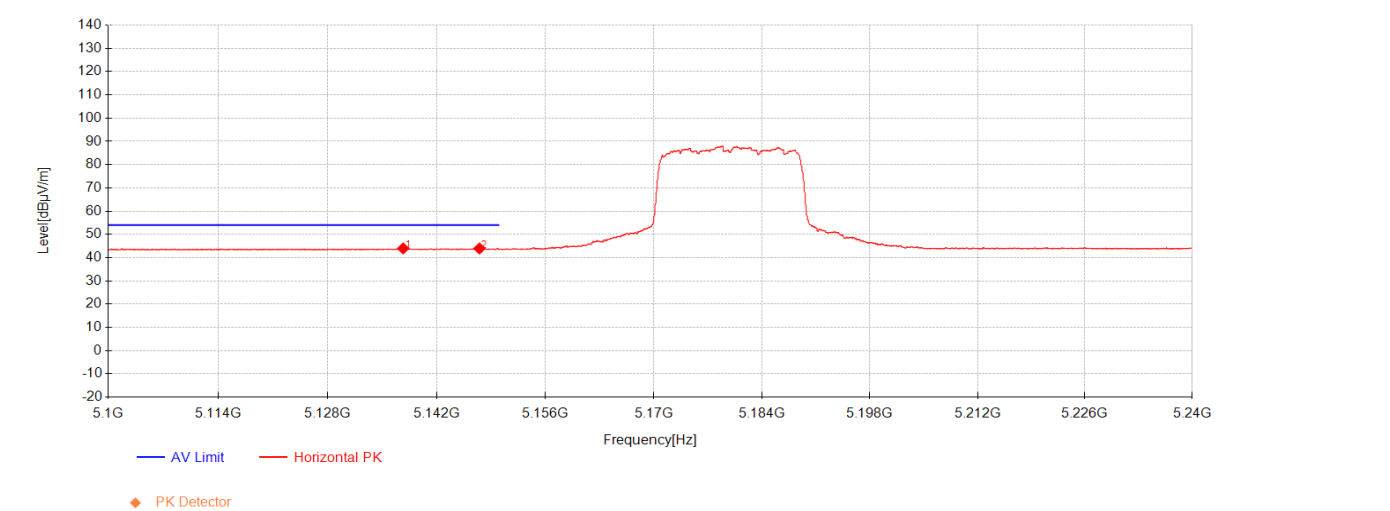


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5134.86	37.71	33.17	-14.86	56.03	74.00	17.97	Horizontal
2	5147.81	37.03	33.17	-14.80	55.40	74.00	18.60	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 36

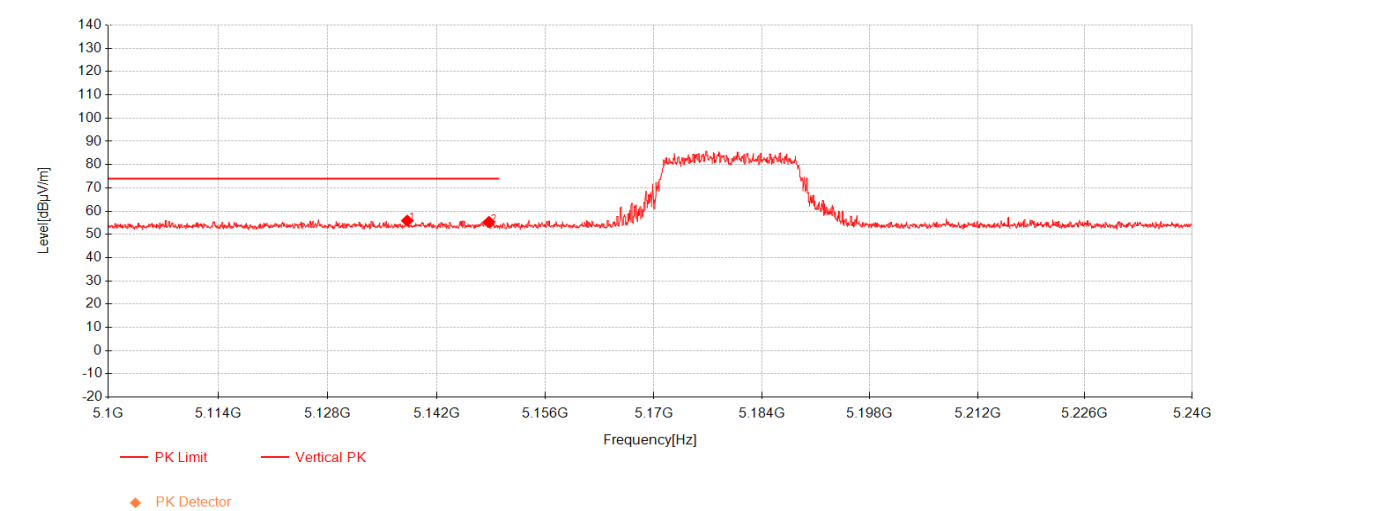


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5137.73	25.63	33.17	-14.84	43.96	54.00	10.04	Horizontal
2	5147.53	25.56	33.17	-14.80	43.93	54.00	10.07	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 36

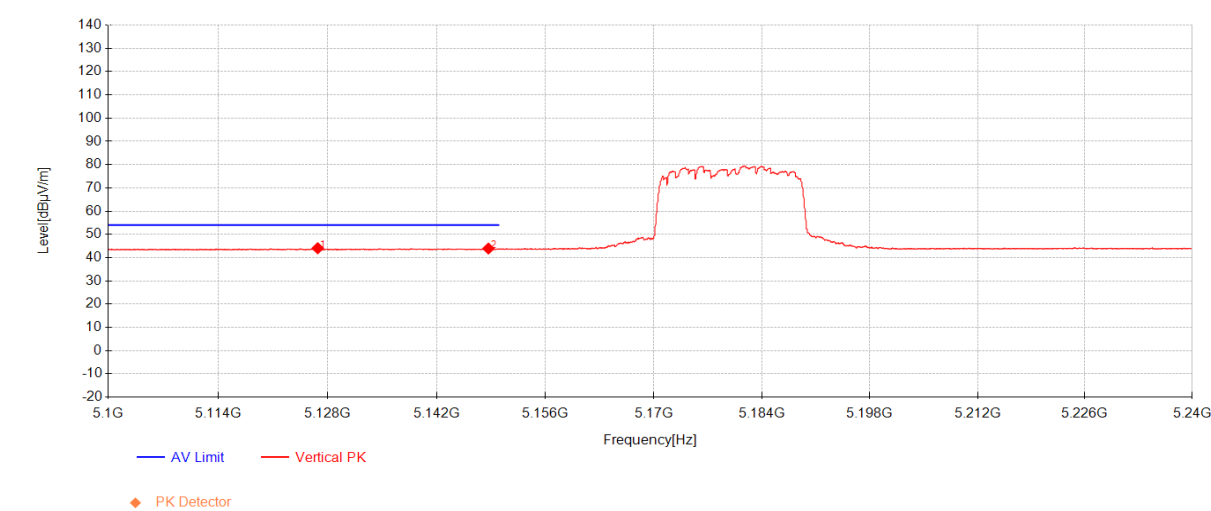


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5138.255	37.55	33.17	-14.84	55.88	74.00	18.12	Vertical
2	5148.755	36.99	33.17	-14.80	55.36	74.00	18.64	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 36

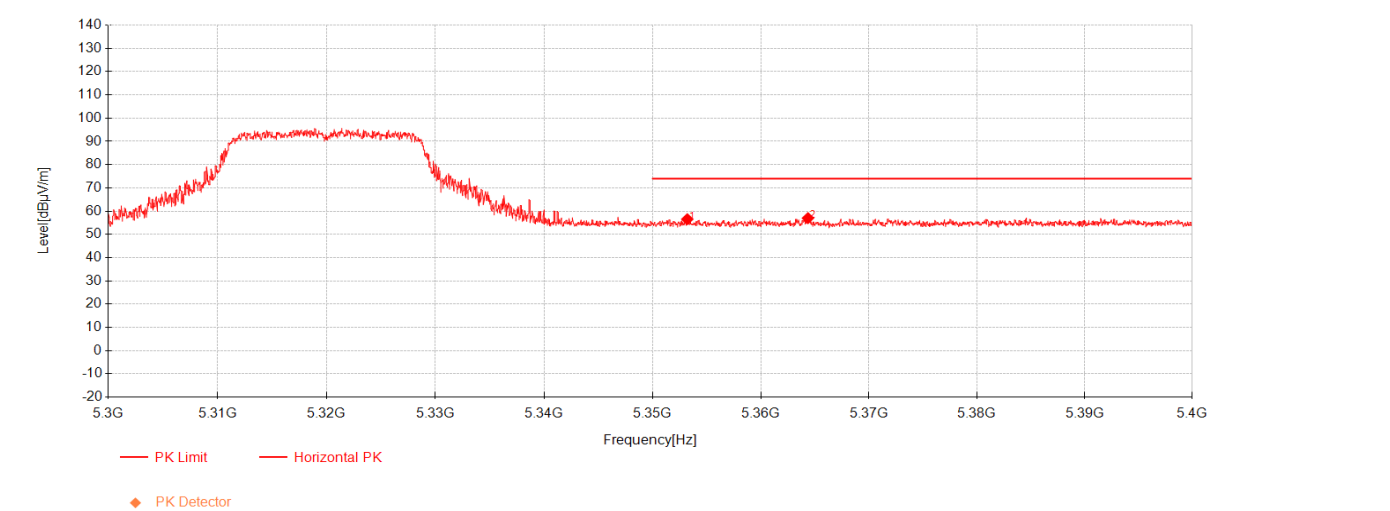


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5126.775	25.77	33.17	-14.89	44.05	54.00	9.95	Vertical
2	5148.685	25.55	33.17	-14.80	43.92	54.00	10.08	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 64

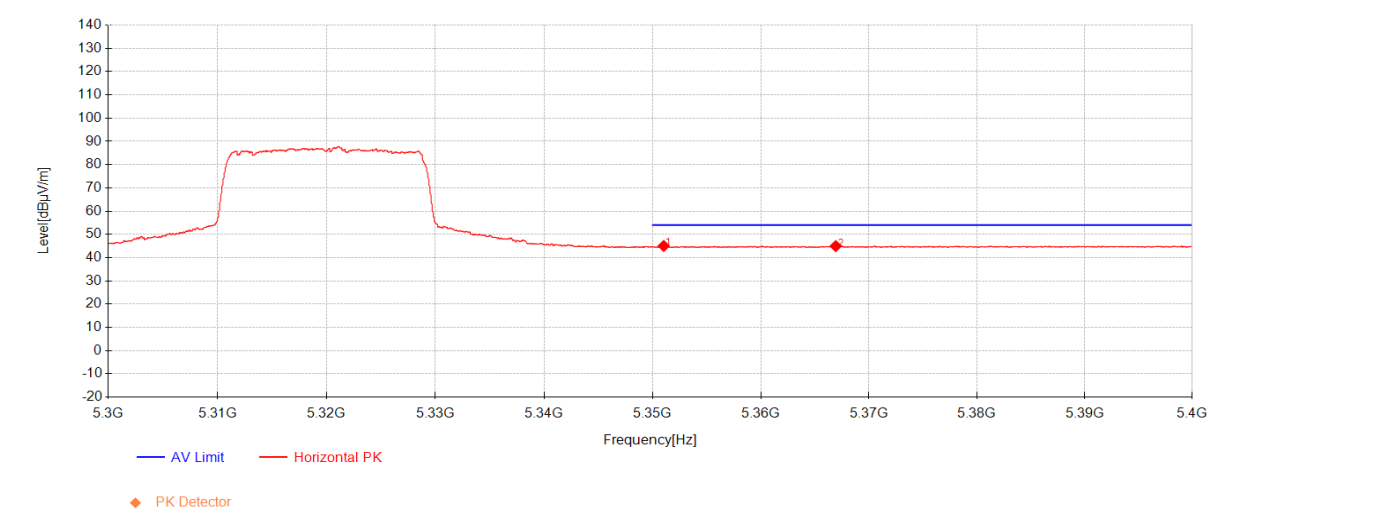


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5353.2	37.51	33.13	-14.10	56.54	74.00	17.46	Horizontal
2	5364.35	38.00	33.13	-14.13	57.00	74.00	17.00	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 64

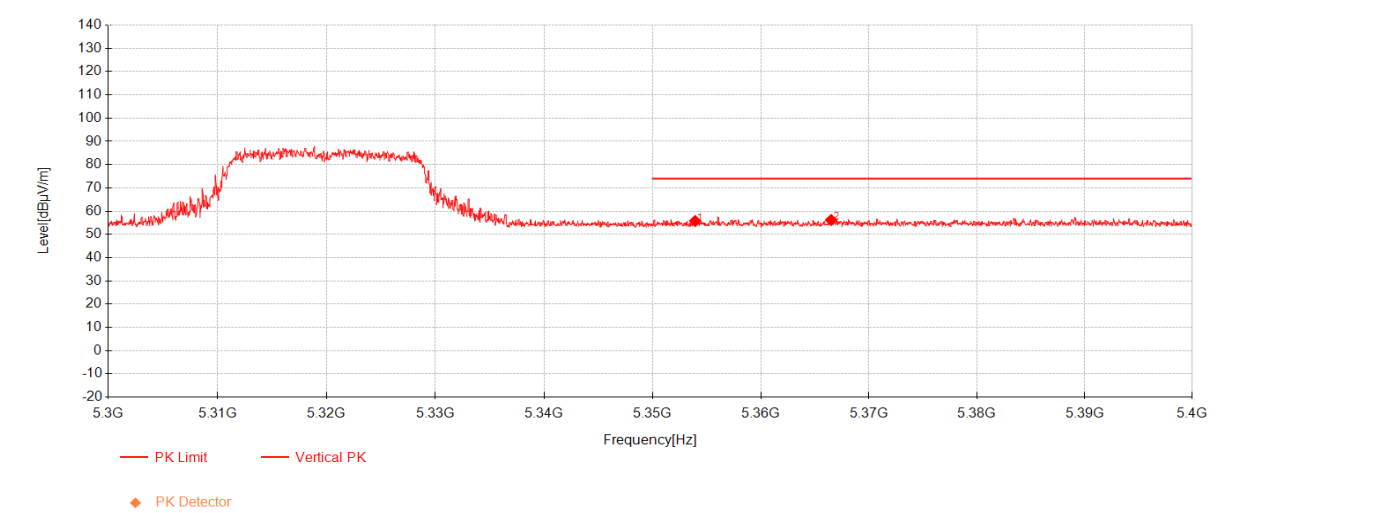


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.025	26.00	33.13	-14.10	45.03	54.00	8.97	Horizontal
2	5366.925	25.96	33.13	-14.13	44.96	54.00	9.04	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 64

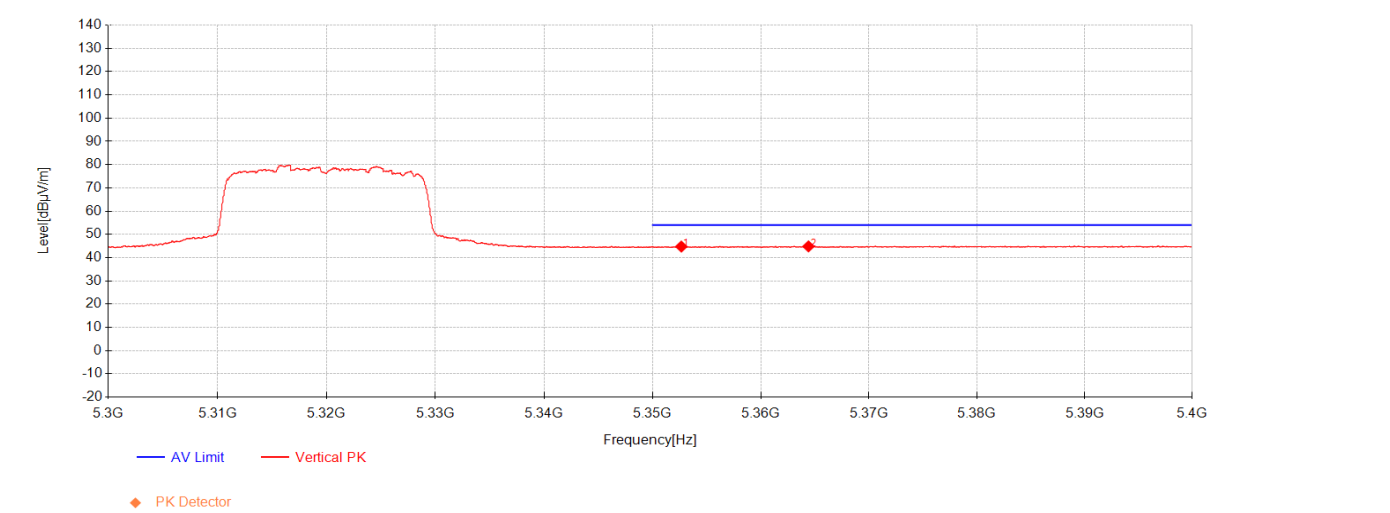


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5353.925	36.72	33.13	-14.10	55.75	74.00	18.25	Vertical
2	5366.5	37.19	33.13	-14.13	56.19	74.00	17.81	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 64

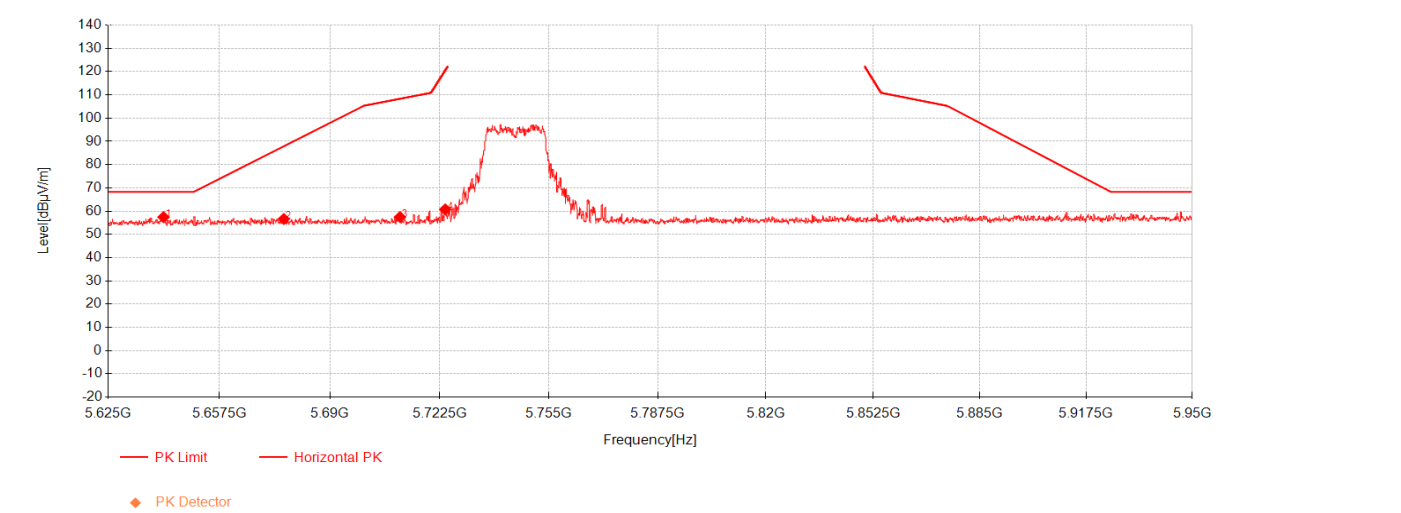


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5352.65	25.73	33.13	-14.10	44.76	54.00	9.24	Vertical
2	5364.4	25.83	33.13	-14.13	44.83	54.00	9.17	Vertical



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 149

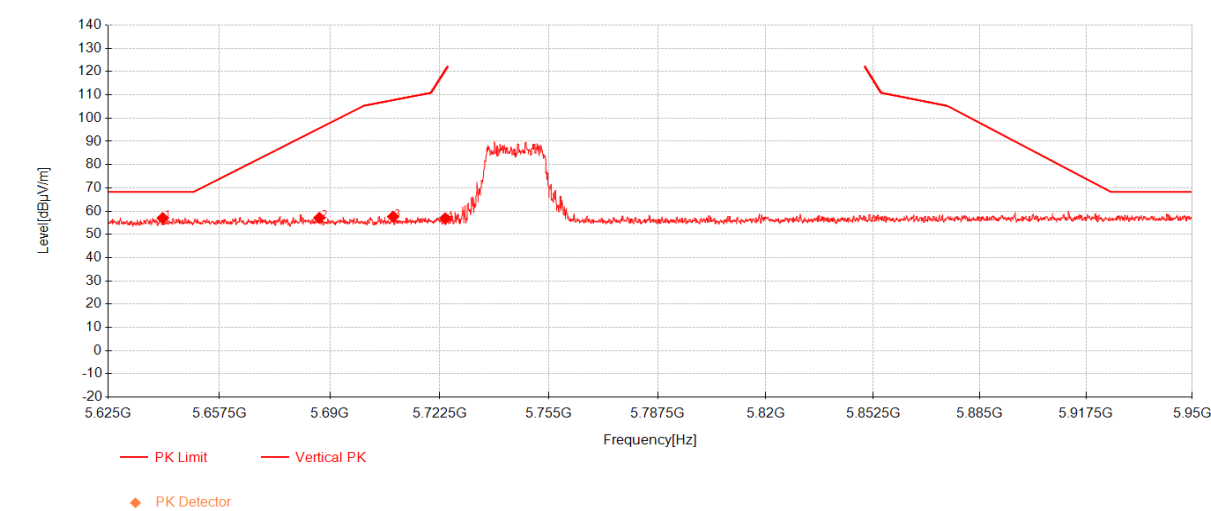


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5641.1688	37.52	33.58	-13.68	57.42	68.30	10.88	Horizontal
2	5676.4312	36.59	33.70	-13.67	56.62	87.90	31.28	Horizontal
3	5710.7188	37.27	33.82	-13.65	57.44	108.30	50.86	Horizontal
4	5724.125	40.50	33.86	-13.62	60.74	120.31	59.57	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5640.925	37.10	33.58	-13.68	57.00	68.30	11.30	Vertical
2	5686.9125	37.04	33.74	-13.67	57.10	95.65	38.55	Vertical
3	5708.6875	37.47	33.81	-13.65	57.63	107.73	50.10	Vertical
4	5724.125	36.67	33.86	-13.62	56.91	120.31	63.40	Vertical

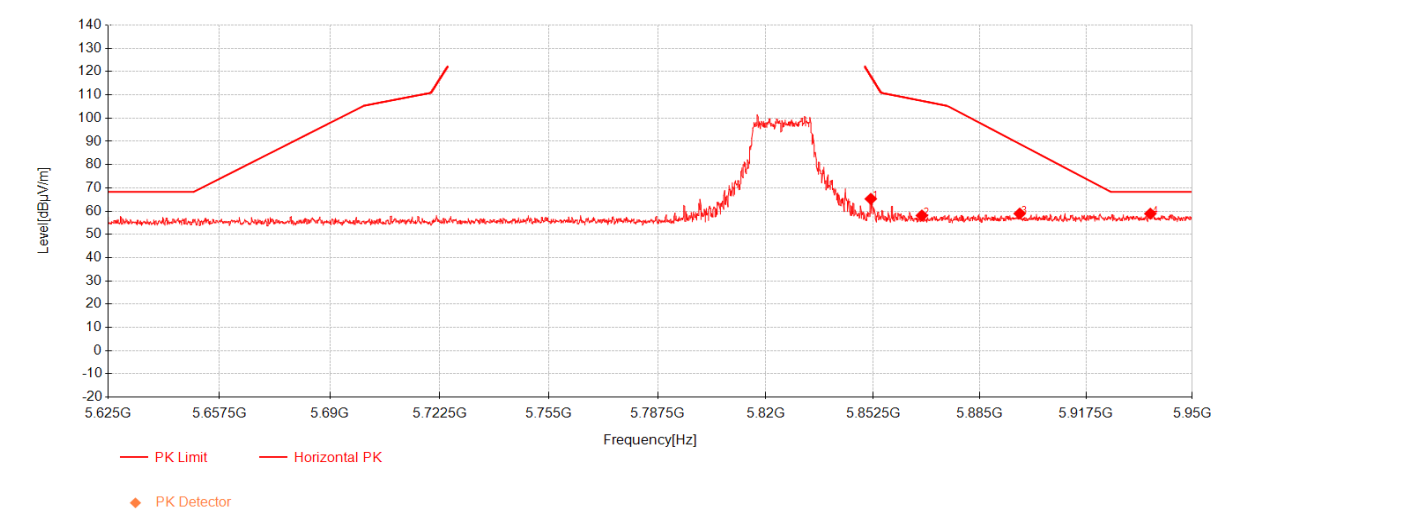


Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204
Page: 145 of 364

802.11ac20_Channel 165

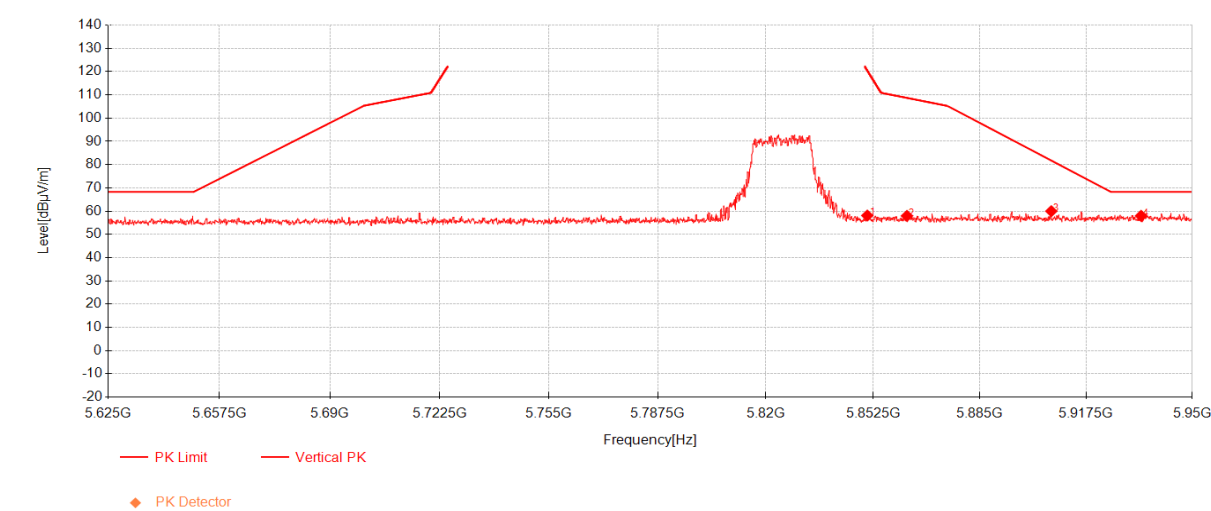


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5851.7688	44.18	34.30	-13.20	65.27	118.27	53.00	Horizontal
2	5867.2875	36.88	34.35	-13.12	58.11	107.46	49.35	Horizontal
3	5897.1062	37.48	34.45	-12.97	58.96	88.90	29.94	Horizontal
4	5937.1625	37.42	34.59	-13.10	58.91	68.30	9.39	Horizontal



Compliance Certification Services (Kunshan) Inc.

802.11ac20_Channel 165



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5850.7125	37.02	34.29	-13.21	58.11	120.67	62.56	Vertical
2	5862.7375	36.77	34.33	-13.15	57.96	108.73	50.77	Vertical
3	5906.775	38.48	34.48	-12.99	59.98	81.75	21.77	Vertical
4	5934.3188	36.48	34.58	-13.09	57.97	68.30	10.33	Vertical

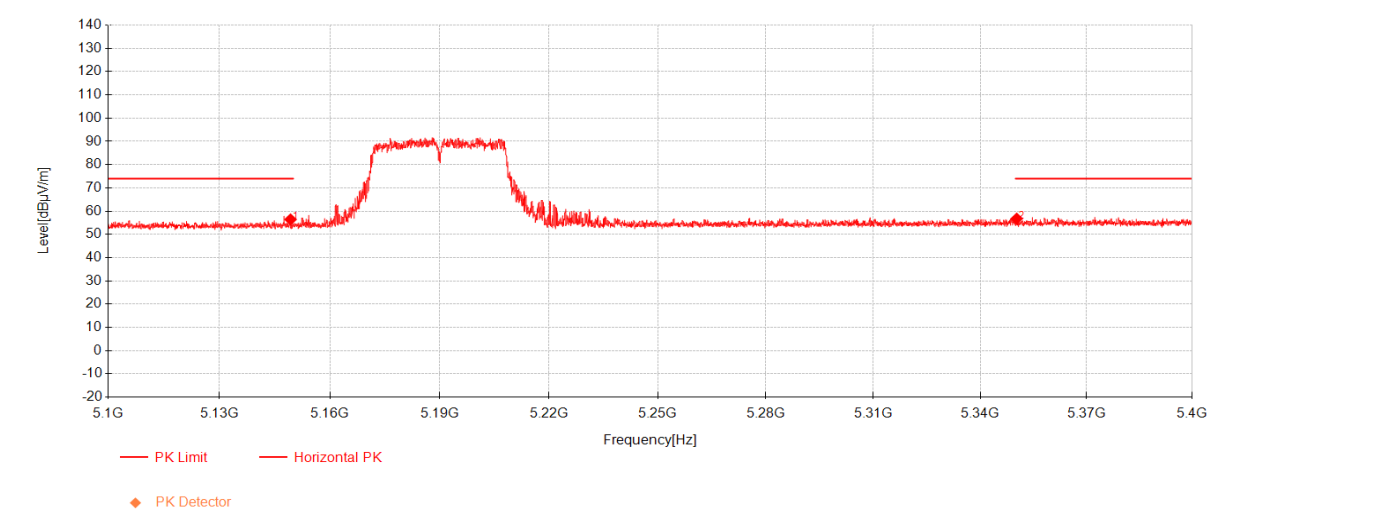


Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162204
Page: 147 of 364

802.11ac40_Channel 38



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5149.28	38.04	33.17	-14.79	56.42	74.00	17.58	Horizontal
2	5350.3	37.73	33.13	-14.10	56.76	74.00	17.24	Horizontal