



FCC Test Report

Product Name : Wireless Module
Model No. : NE310H2-W1

Applicant : Telit Communications S.P.A.
Address : Via Stazione di Prosecco 5/b – 34010 – Sgonico – Trieste,
Italy

Date of Receipt : Oct. 14, 2019
Test Date : Oct. 14, 2019 ~ Nov. 14, 2019
Issued Date : Jan. 14, 2020
Report No. : 19A2056E-IT-US-P01V01
Report Version : V1.0

Issued Date : Jan. 14, 2020
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Product Name : Wireless Module
Applicant : Telit Communications S.P.A.
Address : Via Stazione di Prosecco 5/b – 34010 – Sgonico – Trieste,
Italy
Manufacturer : Telit Communications S.P.A.
Address : Via Stazione di Prosecco 5/b – 34010 – Sgonico – Trieste,
Italy
Model No. : NE310H2-W1
Brand Name : Telit
EUT Voltage : AC 120V 60Hz
Test Voltage : AC 120V 60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2017 Class B
ICES-003 Issue 6: 2019 Class B
ANSI C63.4: 2014
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006,
Jiangsu, China
TEL: +86-512-62515088 / FAX: +86-512-62515098

This report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

Documented By : Beck Gu

(Senior Project Engineer: Beck Gu)

Reviewed By : Black Hao

(Supervisor: Black Hao)

Approved By : Jerry Pan

(Manager: Jerry Pan)

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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1. General Information

1.1. EUT Description

Product Name	Wireless Module
Trade Name	Telit
Model No.	NE310H2-W1

1.2. Mode of Operation

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

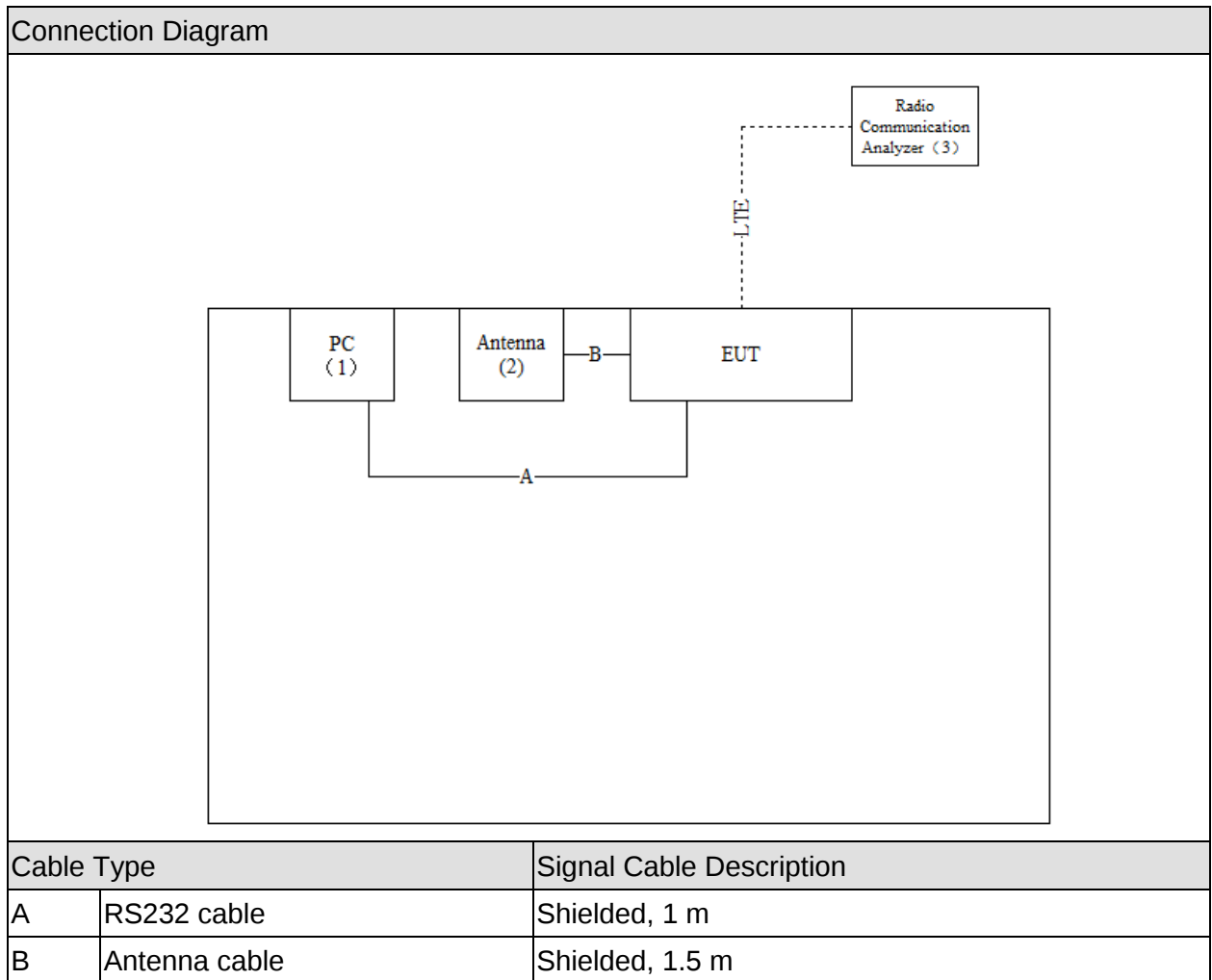
Pre-Test Mode
Mode 1:Data Transmit(LTE NB-IoT: FDD 2 band)
Mode 2:Data Transmit(LTE NB-IoT: FDD 4 band)
Mode 3:Data Transmit(LTE NB-IoT: FDD 5 band)
Mode 4:Data Transmit(LTE NB-IoT: FDD 12 band)
Mode 5:Data Transmit(LTE NB-IoT: FDD 13 band)
Mode 6:Data Transmit(LTE NB-IoT: FDD 17 band)
Mode 7:Data Transmit(LTE NB-IoT: FDD 25 band)
Mode 8:Data Transmit(LTE NB-IoT: FDD 26 band)
Mode 9:Data Transmit(LTE NB-IoT: FDD 66 band)
Mode 10:Data Transmit(LTE NB-IoT: FDD 71 band)
Mode 11:Data Transmit(LTE NB-IoT: FDD 85 band)
Final Test Mode
Mode 1:Data Transmit(LTE NB-IoT: FDD 2 band)

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Antenna	N/A	N/A	N/A	N/A
2	PC	Lenovo	E420	N/A	Unshielded ,1.5m
3	RadioCommunication Analyzer	Anritsu	MT8821C	N/A	Unshielded ,1.5m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Confirm the EUT working normally.
4	Start testing.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Emission			
Performed Test Item	Normative References	Test Performed	Deviation
Conducted disturbance	FCC CFR Title 47 Part 15 Subpart B: 2017 Class B ANSI C63.4: 2014	Yes	No
Radiated disturbance	FCC CFR Title 47 Part 15 Subpart B: 2017 Class B ANSI C63.4: 2014	Yes	No

2.2. List of Test Equipment

Conducted disturbance / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100906	2019.03.04	2020.03.04
Two-Line V-Network	R&S	ENV216	101190	2019.06.09	2020.06.09
Two-Line V-Network	R&S	ENV216	101044	2019.06.09	2020.06.09
Current Probe	R&S	EZ-17	100678	2019.03.07	2020.03.07
50ohm Termination	SHX	TF2	07081402	2019.09.08	2020.09.08
50ohm Termination	SHX	TF2	07081403	2019.09.08	2020.09.08
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Coaxial Cable	Suhner	RG 223	TR1-C1	2019.04.26	2020.04.26
Temperature/Humidity Meter	Ruitesi	RTS-8S	TR1-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC1

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100175	2019.09.08	2020.09.08
EMI Test Receiver	R&S	ESCI	100726	2019.03.18	2020.03.18
Preamplifier	Quietek	AP-025C	CHM-0602008	2019.04.10	2020.04.10
Preamplifier	Quietek	AP-025C	CHM-0503006	2019.04.10	2020.04.10
Bilog Antenna	Schaffner	CBL6112B	2931	2019.05.18	2020.05.18
Bilog Antenna	Schaffner	CBL6112B	2933	2019.05.18	2020.05.18
Coaxial Cable	Huber+Suhner	RG 214 U	AC1-L	2019.10.10	2020.10.10
Coaxial Cable	Huber+Suhner	RG 214 U	AC1-R	2019.10.10	2020.10.10
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC1-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2019.03.04	2020.03.04
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2019.02.28	2020.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC2-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100176	2019.09.08	2020.09.08
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	RG 214	AC3-C	2019.02.28	2020.02.28
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC3-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

Radiated Emission / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cali. Date	Cali. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2019.06.09	2020.06.09
low Noise Amplifier	BXT	NA2651D	LNA17040209	2019.07.16	2020.07.16

DRG Horn Antenna	ETS-Lindgren	3117	00167055	2019.06.09	2020.06.09
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2019.02.28	2020.02.28
Pre-Amplifier	Chengyi	EMC184045SE	980263	2019.09.08	2020.09.08
Coaxial Cable	ROSENBERG ER	LA1-C011-2000/ 3000	AC5-40G	2019.02.28	2020.02.28
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2019.02.23	2020.02.23
Temperature/Humidity Meter	Ruitesi	RTS-8S	AC5-TH	2019.10.24	2020.10.24
Software	Quietek	EMI_V3	V3.0.0	N/A	N/A

2.3. Test Environment

Tests have been performed in a controlled laboratory environment, where the environmental conditions are maintained within the applicable ranges.

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10-40	23
	Humidity (%RH)	25-75	40
	Barometric pressure (mbar)	860-1060	1016
Radiated Emission (30~1000MHz)	Temperature (°C)	10-40	24
	Humidity (%RH)	25-75	41
	Barometric pressure (mbar)	860-1060	1014
Radiated Emission (1~40GHz)	Temperature (°C)	10-40	24
	Humidity (%RH)	25-75	41
	Barometric pressure (mbar)	860-1060	1014

2.4. Measurement Uncertainty

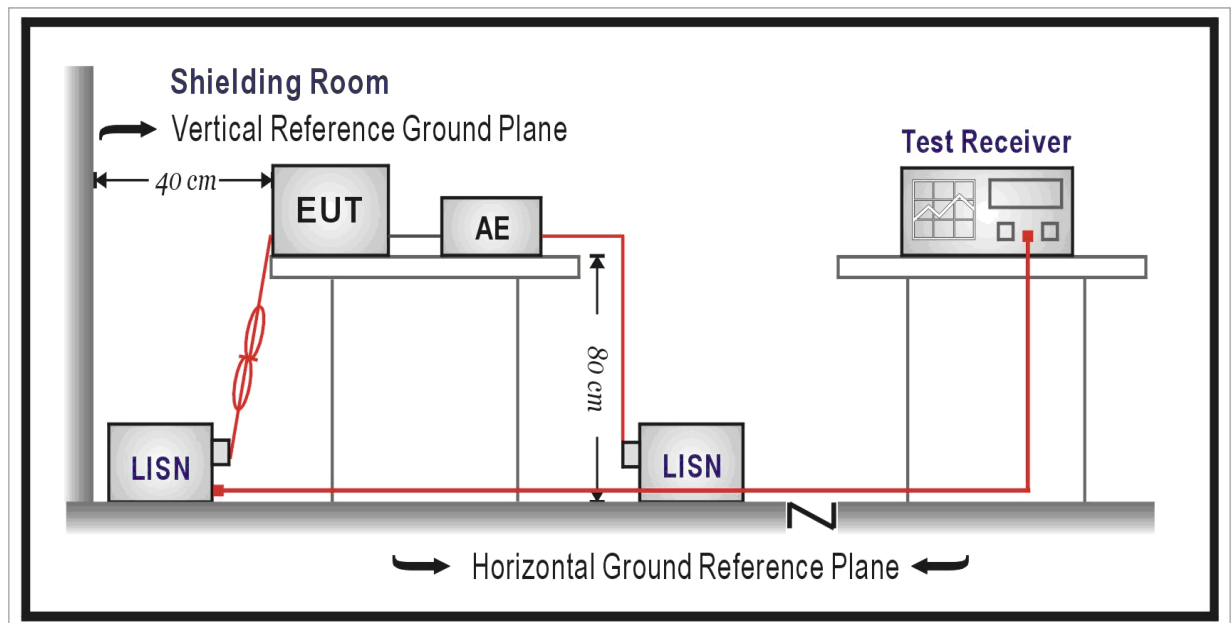
Conducted disturbance / TR1	
The maximum measurement uncertainty is evaluated as:	
9kHz~150kHz: 2.80dB	
150kHz~30MHz: 2.40dB	
Radiated disturbance / AC1	
The maximum measurement uncertainty is evaluated as:	
Horizontal:	30MHz~300MHz: 3.50 dB
	300MHz~1GHz: 3.20 dB
	1GHz~18GHz: 4.80 dB
Vertical:	30MHz~300MHz: 3.60 dB
	300MHz~1GHz: 3.10 dB
	1GHz~18GHz: 4.50 dB
Radiated disturbance / AC2	
The maximum measurement uncertainty is evaluated as:	
Horizontal:	30MHz~300MHz: 3.60 dB
	300MHz~1GHz: 3.10 dB
Vertical:	30MHz~300MHz: 3.20 dB
	300MHz~1GHz: 3.20 dB
Radiated disturbance / AC3	
The maximum measurement uncertainty is evaluated as:	
Horizontal:	30MHz~300MHz: 3.50 dB
	300MHz~1GHz: 3.60 dB
Vertical:	30MHz~300MHz: 3.60 dB
	300MHz~1GHz: 3.50 dB
Radiated disturbance / AC5	
The maximum measurement uncertainty is evaluated as:	
Horizontal:	30MHz~300MHz: 3.90 dB
	300MHz~1GHz: 3.60 dB
	1GHz~18GHz: 5.00 dB
Vertical:	30MHz~300MHz: 3.80 dB
	300MHz~1GHz: 3.50 dB
	1GHz~18GHz: 4.80 dB

3. Conducted disturbance

3.1. Test Specification

According to Standard: FCC Part 15.107 Class B and ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits for conducted disturbance of class A ITE		
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60
NOTE: The lower limit shall apply at the transition frequency.		

Limits for conducted disturbance of class B ITE		
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
NOTE 1: The lower limit shall apply at the transition frequencies.		
NOTE 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω / 50μH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω / 50μH coupling impedance with 50Ω termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

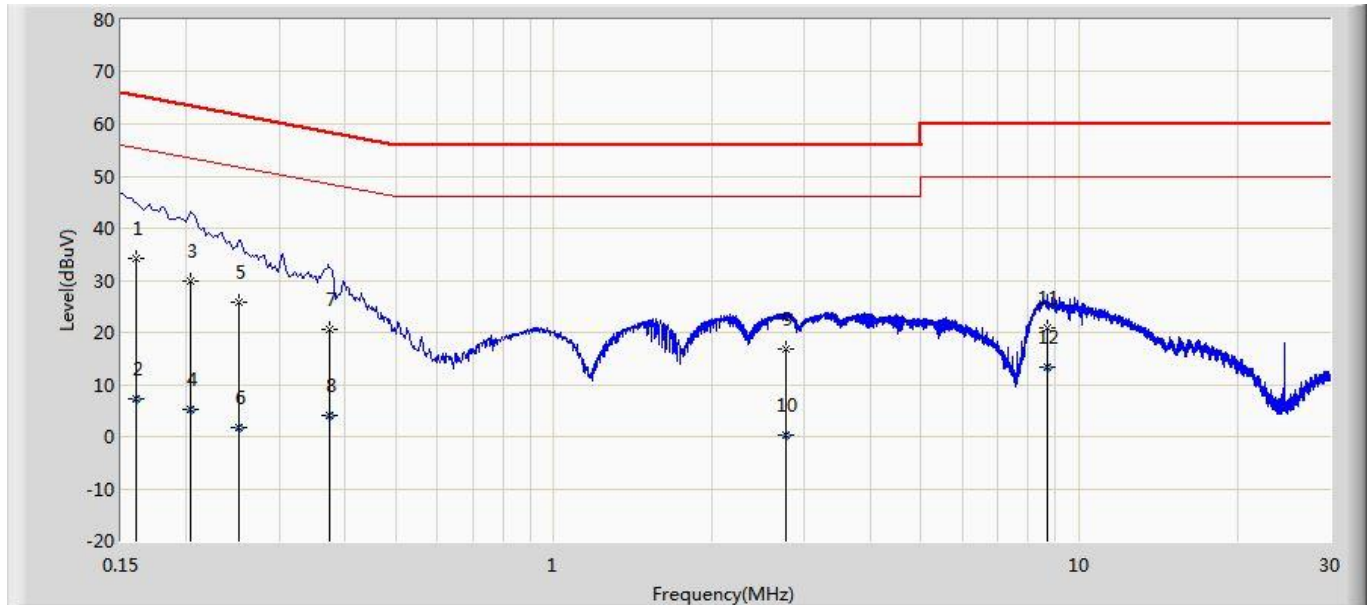
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

3.6. Test Result

Engineer: Fox	
Site: TR1	Time: 2019/11/01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Wireless Module	Power: 120V/60Hz
Note: Mode 1	

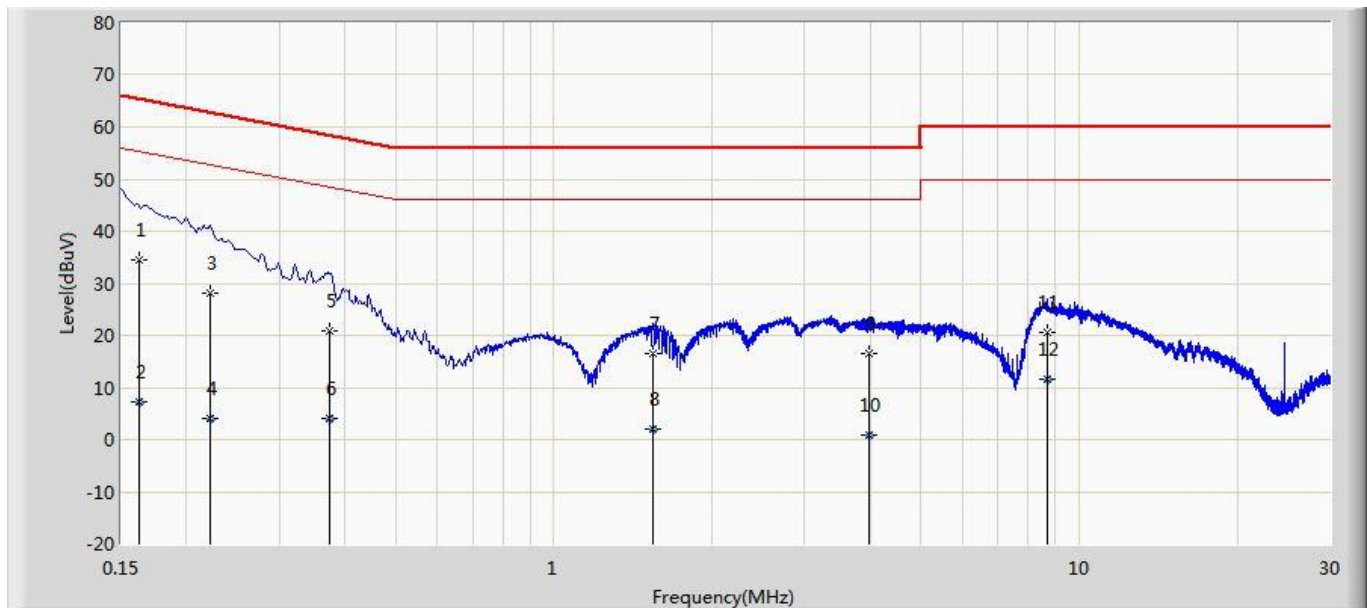


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.160	34.148	24.545	-31.301	65.449	9.575	0.029	0.000	QP
2		0.160	7.224	-2.379	-48.225	55.449	9.575	0.029	0.000	AV
3		0.204	29.998	20.380	-33.449	63.446	9.589	0.029	0.000	QP
4		0.204	5.217	-4.400	-48.229	53.446	9.589	0.029	0.000	AV
5		0.251	25.687	16.062	-36.029	61.716	9.593	0.031	0.000	QP
6		0.251	1.732	-7.892	-49.983	51.716	9.593	0.031	0.000	AV
7		0.373	20.485	10.847	-37.955	58.439	9.601	0.037	0.000	QP
8		0.373	3.988	-5.650	-44.451	48.439	9.601	0.037	0.000	AV
9		2.756	16.701	6.940	-39.299	56.000	9.658	0.103	0.000	QP
10		2.756	0.177	-9.584	-45.823	46.000	9.658	0.103	0.000	AV
11		8.698	20.999	11.007	-39.001	60.000	9.804	0.188	0.000	QP
12		8.698	13.239	3.247	-36.761	50.000	9.804	0.188	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Fox	
Site: TR1	Time: 2019/11/01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Wireless Module	Power: 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.162	34.514	24.910	-30.866	65.380	9.575	0.029	0.000	QP
2		0.162	7.325	-2.278	-48.055	55.380	9.575	0.029	0.000	AV
3		0.222	28.056	18.435	-34.688	62.744	9.591	0.029	0.000	QP
4		0.222	4.104	-5.517	-48.640	52.744	9.591	0.029	0.000	AV
5		0.373	20.727	11.088	-37.713	58.439	9.601	0.037	0.000	QP
6		0.373	4.051	-5.588	-44.389	48.439	9.601	0.037	0.000	AV
7		1.540	16.426	6.721	-39.574	56.000	9.630	0.075	0.000	QP
8		1.540	1.942	-7.763	-44.058	46.000	9.630	0.075	0.000	AV
9		3.973	16.380	6.570	-39.620	56.000	9.682	0.127	0.000	QP
10		3.973	0.879	-8.931	-45.121	46.000	9.682	0.127	0.000	AV
11		8.700	20.540	10.533	-39.460	60.000	9.820	0.188	0.000	QP
12		8.700	11.739	1.731	-38.261	50.000	9.820	0.188	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

3.7. Test Photograph

Test Mode: Mode 1

Description: Front View of Conducted disturbance Test Setup



Test Mode: Mode 1

Description: Rear View of Conducted disturbance Test Setup



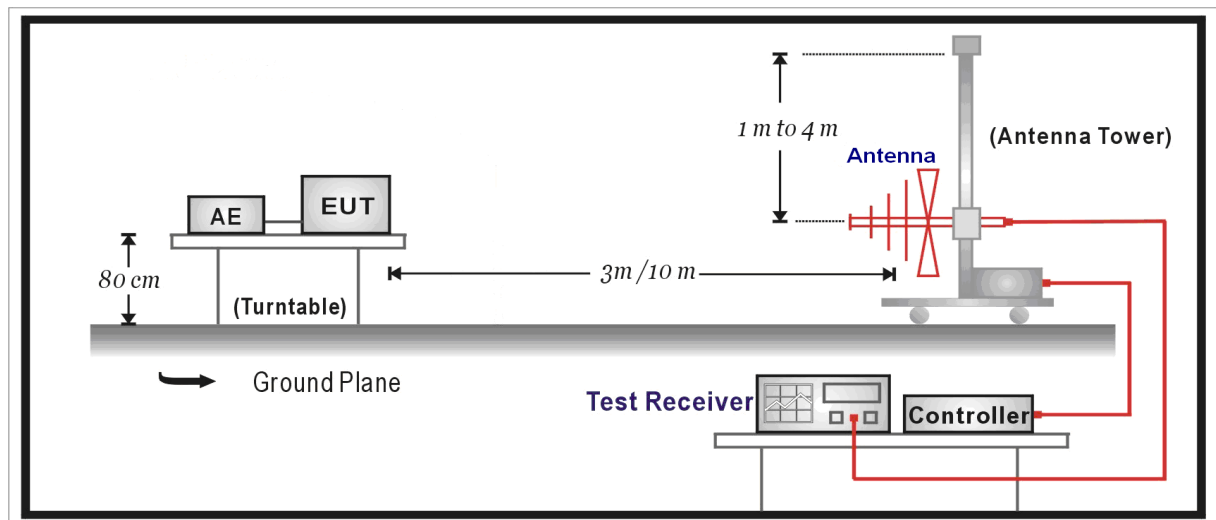
4. Radiated disturbance

4.1. Test Specification

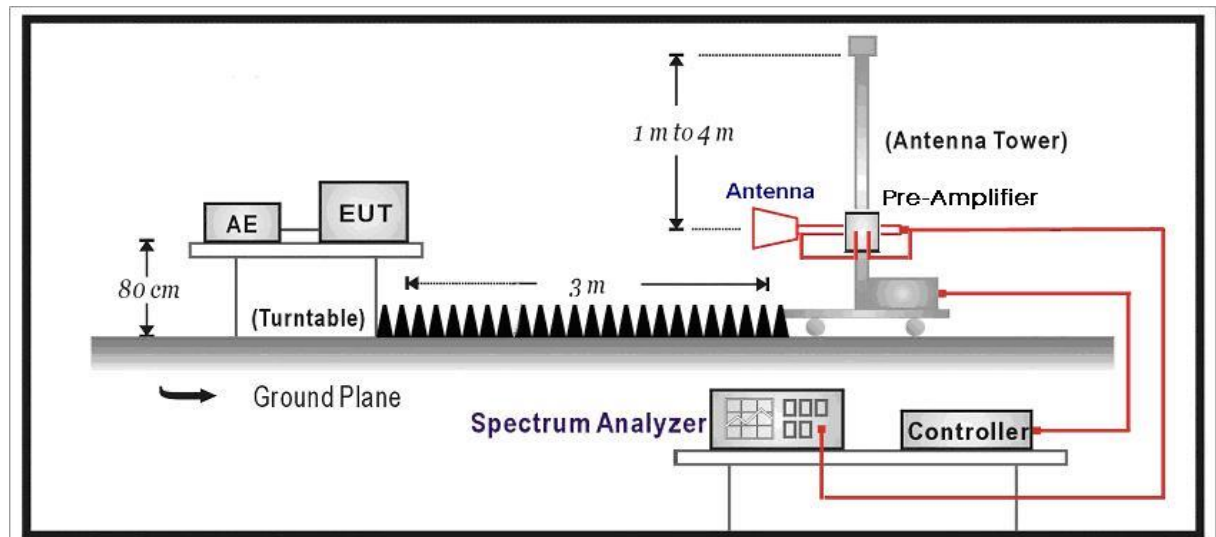
According to Standard: FCC Part 15.109 Class B and ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



4.3. Limit

Limits for Radiated disturbance of class A ITE at a measuring distance of 10m	
Frequency of Emission (MHz)	Field Strength dB(μV/m)
30 to 88	39
88 to 216	43.5
216 to 960	46.4
Above 960	49.5
NOTE: The lower limit shall apply at the transition frequency.	

Limits for Radiated disturbance of class B ITE at a measuring distance of 3m	
Frequency of Emission (MHz)	Field Strength dB(μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54
NOTE: The lower limit shall apply at the transition frequency.	

4.4. Test Procedure

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be changed during radiated measurement.

The bandwidth below 1GHz setting on the receiver is 120kHz and above 1GHz is 1MHz.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

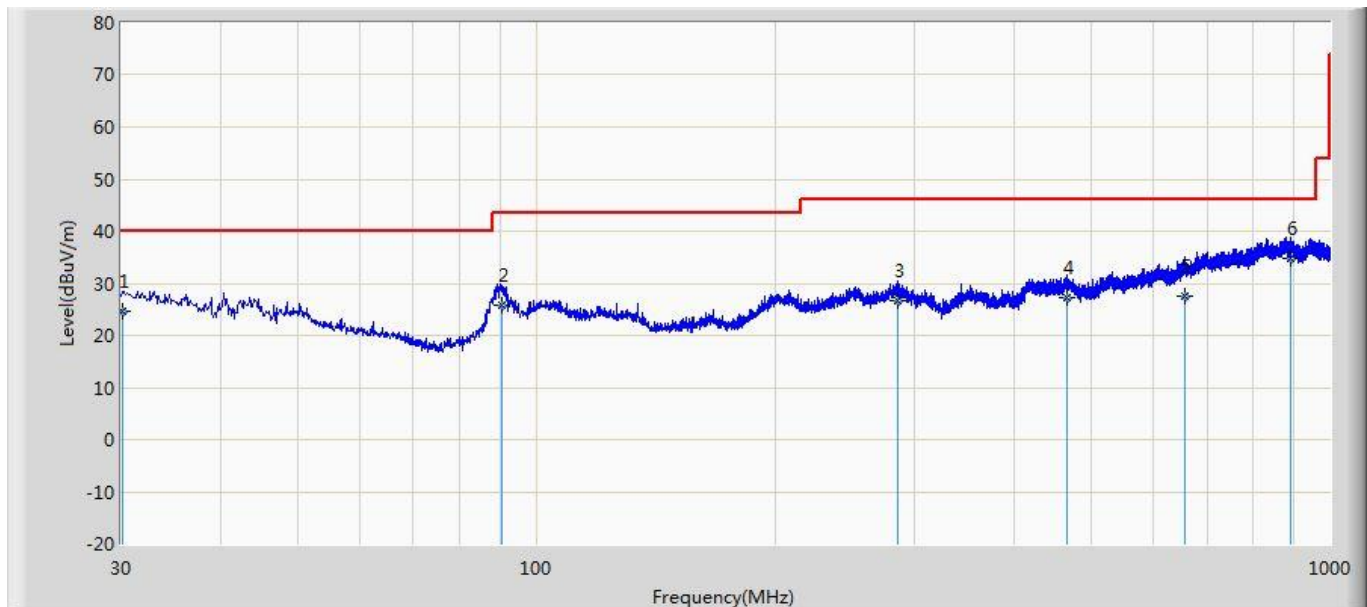
When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Engineer: fox	
Site: AC2	Time: 2019/11/08
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: Wireless Module	Power: AC 120V/60Hz
Note: Mode 1	

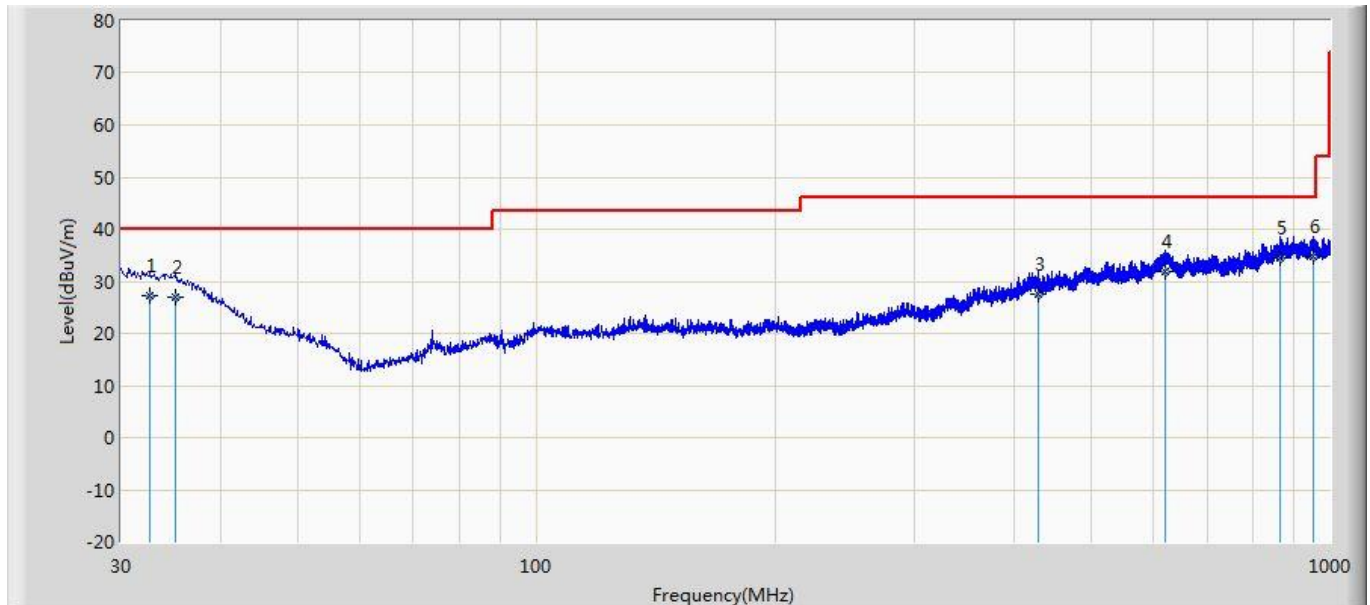


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.121	24.607	0.545	-15.393	40.000	17.723	6.339	0.000	100	25	QP
2		90.504	25.775	8.641	-17.725	43.500	10.409	6.725	0.000	200	16	QP
3		285.959	26.697	1.614	-19.303	46.000	17.568	7.515	0.000	100	215	QP
4		466.742	27.120	0.315	-18.880	46.000	18.730	8.075	0.000	100	319	QP
5		657.226	27.665	-1.611	-18.335	46.000	20.688	8.588	0.000	100	34	QP
6	*	894.149	34.722	1.065	-11.278	46.000	24.501	9.156	0.000	100	254	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: fox	
Site: AC2	Time: 2019/11/08
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: Wireless Module	Power: AC 120V/60Hz
Note: Mode 1	

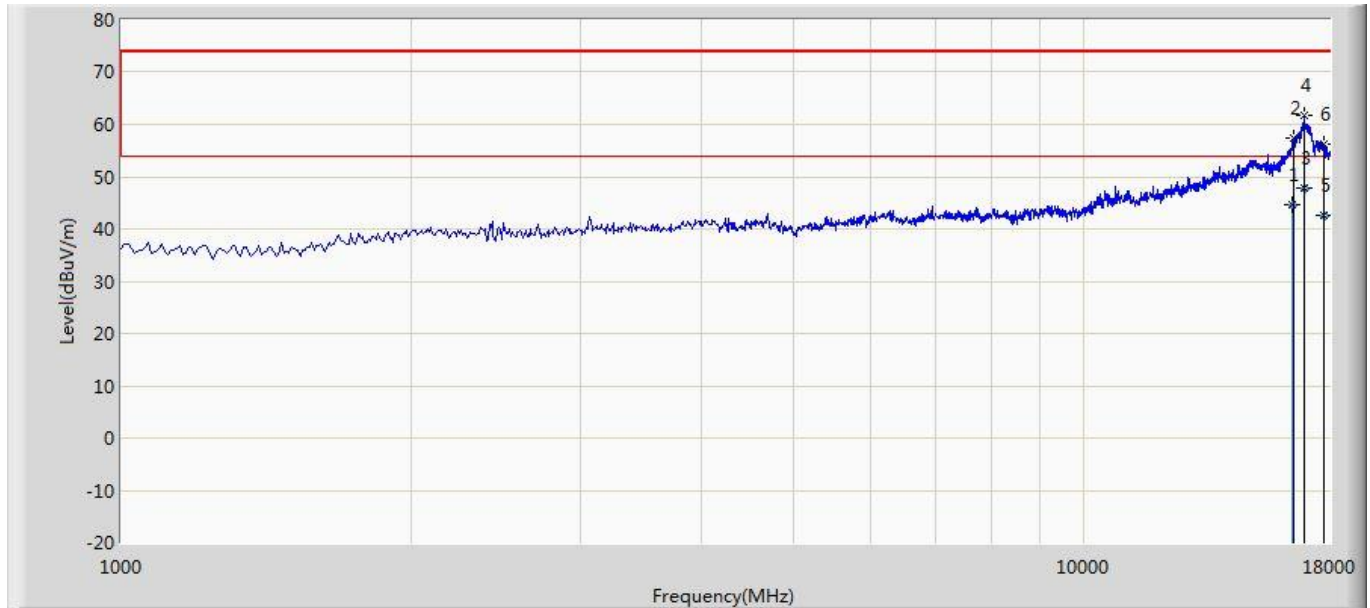


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		32.667	27.214	0.150	-12.786	40.000	20.726	6.338	0.000	100	298	QP
2		35.092	26.978	0.161	-13.022	40.000	20.475	6.342	0.000	200	195	QP
3		429.397	27.541	1.020	-18.459	46.000	18.557	7.964	0.000	200	192	QP
4		619.396	31.802	1.111	-14.198	46.000	22.201	8.489	0.000	100	28	QP
5		865.534	34.524	1.614	-11.476	46.000	23.818	9.093	0.000	100	24	QP
6	*	954.167	34.817	1.611	-11.183	46.000	23.907	9.299	0.000	200	317	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Lacey	
Site: AC5	Time: 2019/11/01
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Module	Power: AC 120V/60Hz
Note: Mode 1	

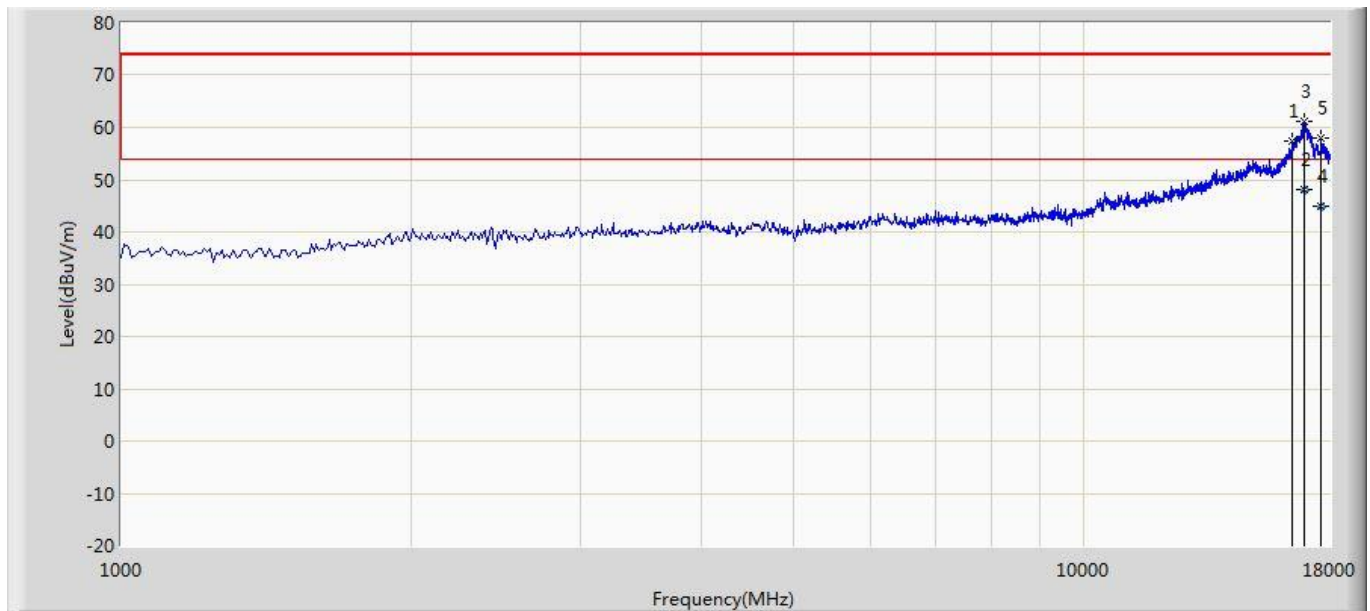


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		16473.533	44.544	21.635	-9.456	54.000	41.395	15.143	33.629	100	258	AV
2		16478.500	57.380	34.626	-16.620	74.000	41.395	15.174	33.815	100	258	PK
3	*	16927.532	47.718	21.536	-6.282	54.000	41.229	17.889	32.935	100	98	AV
4		16929.000	61.711	35.526	-12.289	74.000	41.228	17.898	32.941	100	98	PK
5		17713.632	42.710	20.320	-11.290	54.000	41.642	14.471	33.723	100	134	AV
6		17719.500	56.253	33.574	-17.747	74.000	41.651	14.441	33.413	100	134	PK

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Lacey	
Site: AC5	Time: 2019/11/01
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		16470.000	57.459	34.440	-16.541	74.000	41.394	15.122	33.497	100	360	PK
2	*	16925.090	48.009	21.832	-5.991	54.000	41.230	17.874	32.926	100	360	AV
3		16929.000	61.169	34.984	-12.831	74.000	41.228	17.898	32.941	100	98	PK
4		17641.900	44.960	21.632	-9.040	54.000	41.527	14.836	33.035	100	98	AV
5		17643.000	57.970	34.599	-16.030	74.000	41.529	14.830	32.988	100	110	PK
6		116473.066	43.467	21.521	NaN	NaN	42.100	13.012	33.166	100	110	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).