

FCC Test Report

FCC ID: EHX-WCCOAMPE

Product: Coalesce Meeting Place Edition
Trade Mark: N/A
Model Number: WC-COA-MPE
Serial Model: N/A
Report No.: SER171116001004E

Prepared for

Black Box Corporation
1000 Park Drive, Lawrence, Pennsylvania 15055, United States
Of America

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Black Box Corporation
Address : 1000 Park Drive, Lawrence, Pennsylvania 15055, United States Of America
Manufacturer's Name : Shenzhen Hotack Technology Co.,Ltd.
Address : Floor 1 Building 2, Haochuang Industrial Park, yousong Road, Longhua New District, Shenzhen, Guangdong, China
Product description : Wireless Presentation System
Product name : Coalesce Meeting Place Edition
Model and/or type reference : WC-COA-MPE
Standards : FCC Part15B
ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test :
Date (s) of performance of tests : 16 Nov. 2017 ~ 13 Dec. 2017
Date of Issue : 13 Dec. 2017
Test Result : **Pass**

Testing Engineer : Eileen Liu.
(Eileen Liu)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam. Chen
(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

FCC Registration Number:463705; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Coalesce Meeting Place Edition	
Trade Mark	N/A	
Model Name	WC-COA-MPE	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Wireless Presentation System.	
	Connecting I/O port:	RJ45, Optical, HDMI, Type-C, USB, TF
	Operation Frequency:	BT:2402~2480 MHz WIFI:802.11b/g/n(20):2412~2462MHz
	Modulation Type:	BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/n (HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Power Source	DC 5V from Adapter	
Adapter	Model: A241-0503000I Input: AC 100-240V 50/60Hz 0.8A Output: DC 5V, 3000mA	
Battery	N/A	
HW Version	V4	
SW Version	Kernel 4.4.16	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

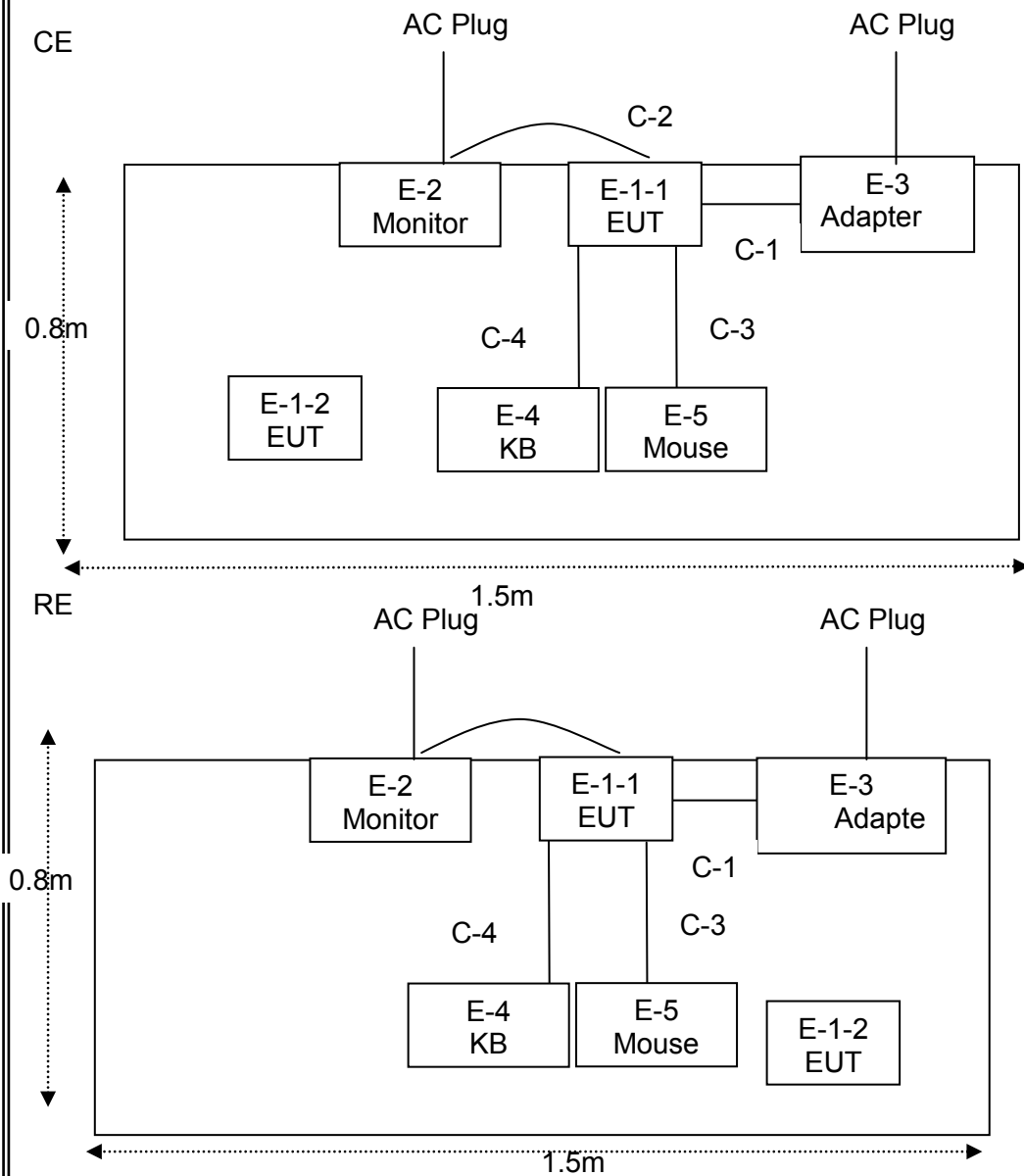
Pretest Mode	Description
Mode 1	TF card Play+HDMI
Mode 2	USB Play+HDMI
Mode 3	LAN
Mode 4	BT
Mode 5	WIFI

For Conducted Test	
Final Test Mode	Description
Mode 1	TF card Play+HDMI
Mode 2	USB Play+HDMI
Mode 3	LAN
Mode 4	BT
Mode 5	WIFI

For Radiated Test	
Final Test Mode	Description
Mode 1	TF card Play+HDMI
Mode 2	USB Play+HDMI
Mode 3	LAN
Mode 4	BT
Mode 5	WIFI

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1-1	Coalesce Meeting Place Edition	N/A	WC-COA-MPE	N/A	EUT
E-1-2	Coalesce Meeting Place Edition	N/A	WC-COA-MPE	N/A	Controller
E-2	LCD	SHARP	LCD-32MS46A	09426089241597	
E-3	Adapter	N/A	A241-0503000I	N/A	
E-5	KB	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th 7	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	DC Cable	NO	NO	1.5m	
C-2	HDMI Cable	NO	NO	0.8m	
C-4	KB Cable	NO	NO	1.2m	
C-5	Mouse Cable	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2017.06.06	2018.06.05	1 year
2	Test Receiver	R&S	ESPI	101318	2017.06.06	2018.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2017.04.09	2018.04.08	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2017.06.06	2018.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2017.06.06	2018.06.05	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2017.04.09	2018.04.08	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2017.07.06	2018.07.05	1 year
8	Amplifier	EMC	EMC051835SE	980246	2017.08.09	2018.08.08	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2017.06.06	2018.06.05	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2017.08.09	2018.08.08	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2017.07.06	2018.07.05	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2017.06.06	2018.06.05	1 year
2	LISN	R&S	ENV216	101313	2017.04.19	2018.04.18	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2017.06.06	2018.06.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2017.06.06	2018.06.05	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

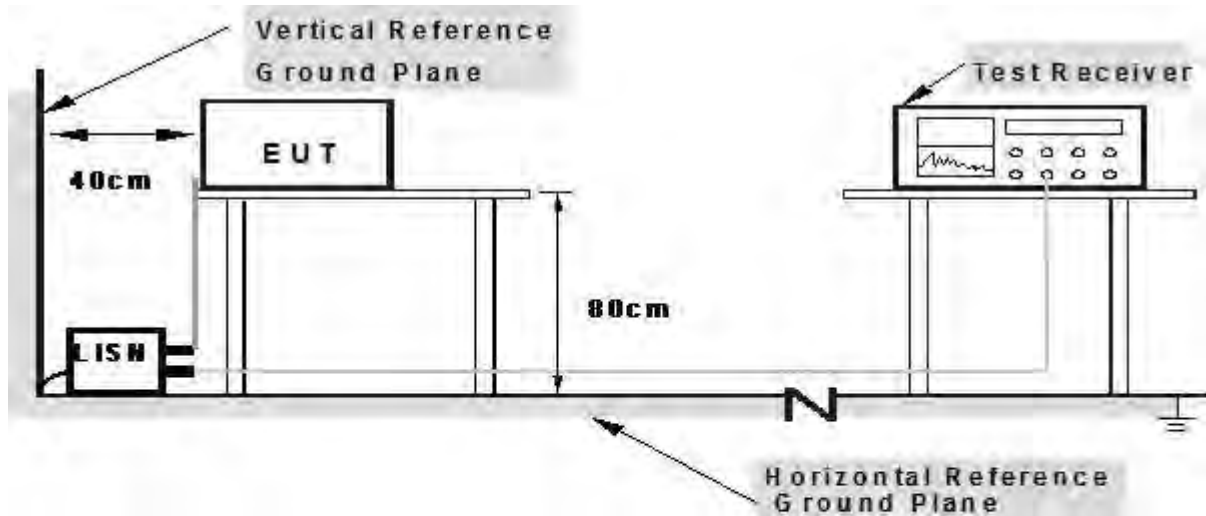
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

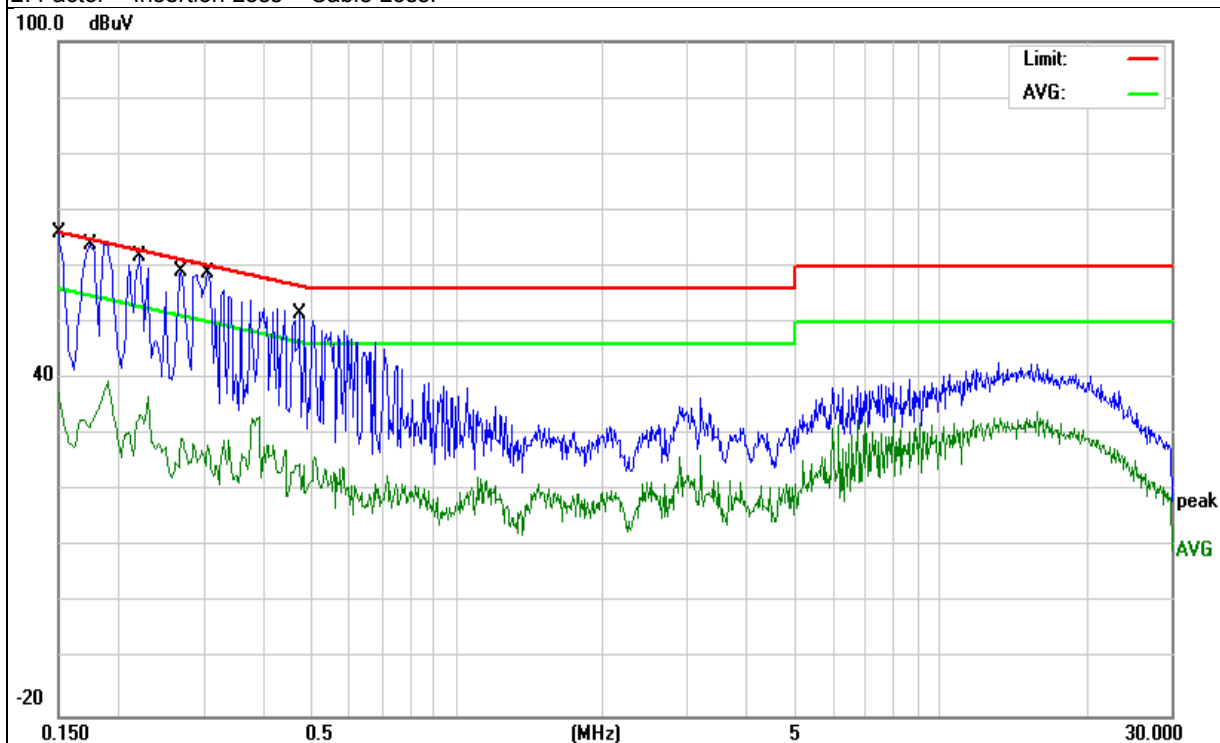
3.1.5 TEST RESULTS

EUT:	Coalesce Meeting Place Edition	Model Name. :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2017-11-02
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from Adapter AC120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1500	46.16	9.82	55.98	65.99	-10.01	QP
0.1500	27.74	9.82	37.56	55.99	-18.43	AVG
0.1740	43.99	9.82	53.81	64.76	-10.95	QP
0.1740	29.66	9.82	39.48	54.76	-15.28	AVG
0.2220	41.91	9.82	51.73	62.74	-11.01	QP
0.2220	26.91	9.82	36.73	52.74	-16.01	AVG
0.2700	39.09	9.82	48.91	61.12	-12.21	QP
0.2700	19.45	9.82	29.27	51.12	-21.85	AVG
0.3060	37.41	9.82	47.23	60.08	-12.85	QP
0.3060	19.11	9.82	28.93	50.08	-21.15	AVG
0.4740	41.58	9.83	51.41	56.44	-5.03	QP
0.4740	17.49	9.83	27.32	46.44	-19.12	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

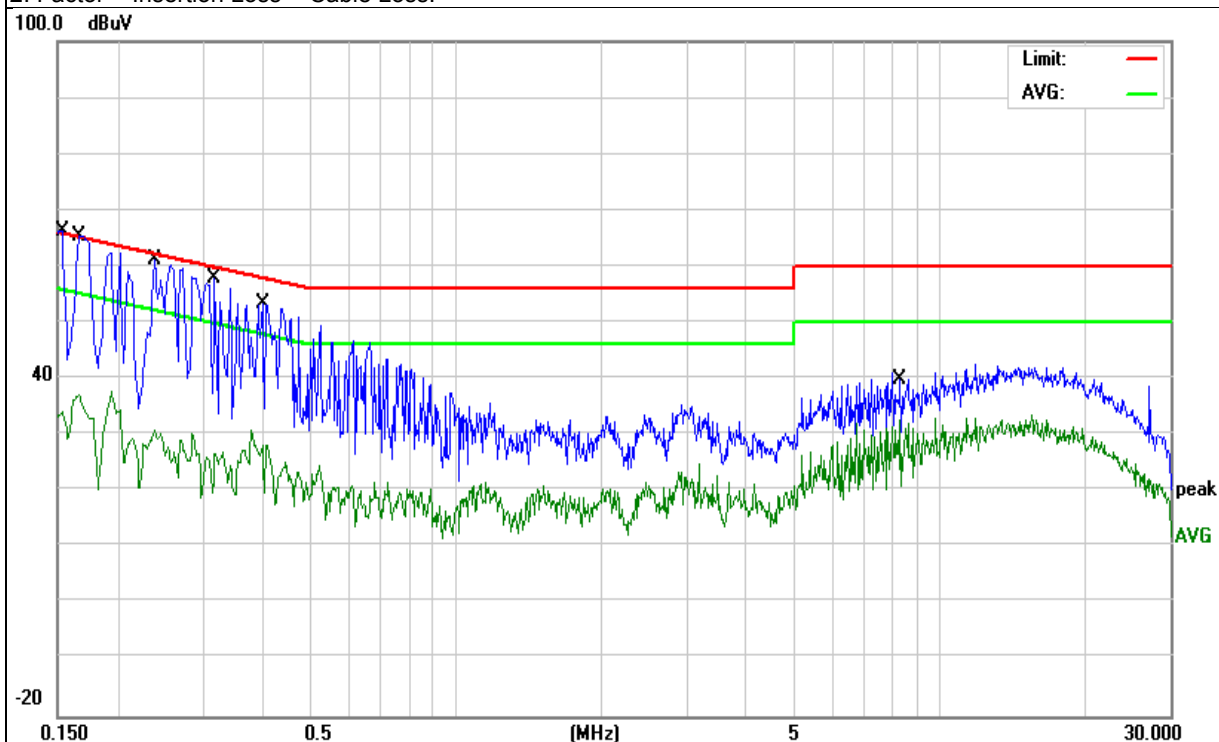


EUT:	Coalesce Meeting Place Edition	Model Name. :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2017-11-02
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from Adapter AC120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	46.80	9.92	56.72	65.78	-9.06	QP
0.1539	24.09	9.92	34.01	55.78	-21.77	AVG
0.1660	45.81	9.92	55.73	65.15	-9.42	QP
0.1660	27.28	9.92	37.20	55.15	-17.95	AVG
0.2380	41.16	9.92	51.08	62.16	-11.08	QP
0.2380	20.80	9.92	30.72	52.16	-21.44	AVG
0.2380	20.34	9.92	30.26	52.16	-21.90	QP
0.3180	36.51	9.92	46.43	59.76	-13.33	AVG
0.3180	21.04	9.92	30.96	49.76	-18.80	QP
0.3980	43.29	9.93	53.22	57.89	-4.67	AVG
8.3057	30.83	10.07	40.90	60.00	-19.10	QP
8.3057	22.43	10.07	32.50	50.00	-17.50	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

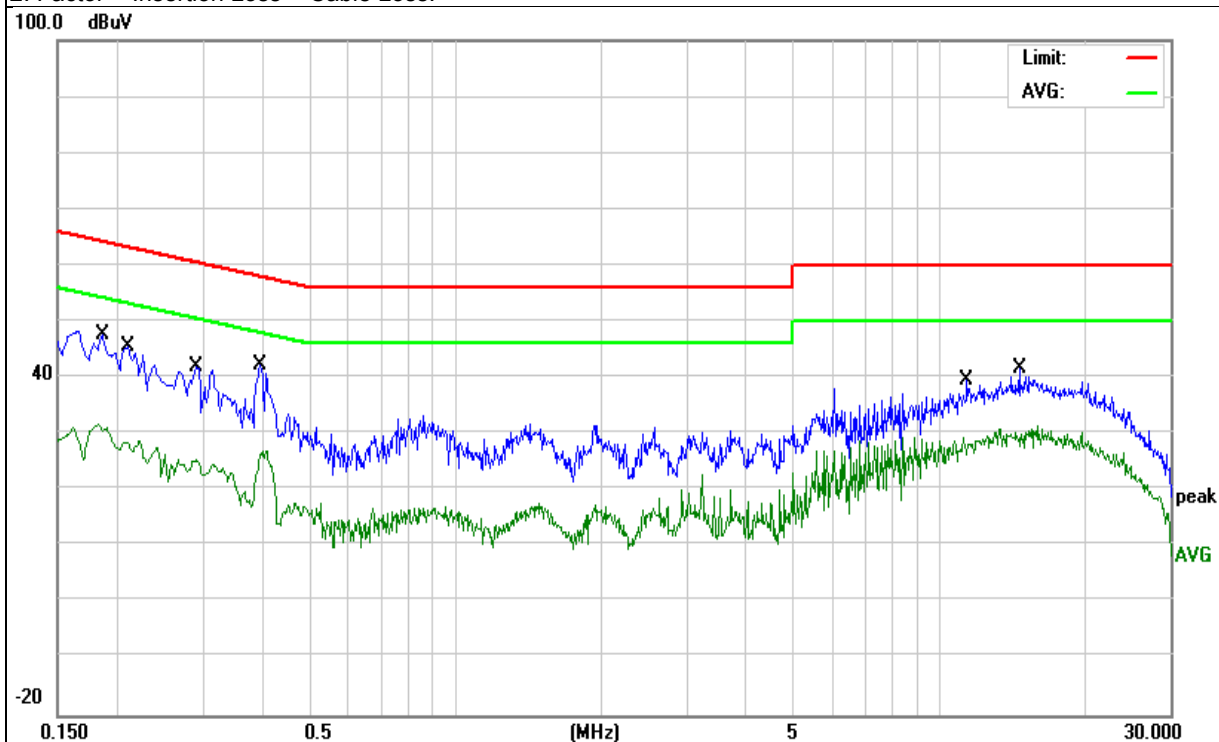


EUT:	Coalesce Meeting Place Edition	Model Name. :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2017-11-02
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from Adapter AC240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1859	37.94	9.82	47.76	64.21	-16.45	QP
0.1859	22.04	9.82	31.86	54.21	-22.35	AVG
0.2099	35.62	9.82	45.44	63.21	-17.77	QP
0.2099	18.79	9.82	28.61	53.21	-24.60	AVG
0.2899	32.15	9.82	41.97	60.52	-18.55	QP
0.2899	15.54	9.82	25.36	50.52	-25.16	AVG
0.3940	32.44	9.83	42.27	57.98	-15.71	QP
0.3940	17.09	9.83	26.92	47.98	-21.06	AVG
11.4018	29.63	10.05	39.68	60.00	-20.32	QP
11.4018	19.40	10.05	29.45	50.00	-20.55	AVG
14.6499	31.60	10.20	41.80	60.00	-18.20	QP
14.6499	20.62	10.20	30.82	50.00	-19.18	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

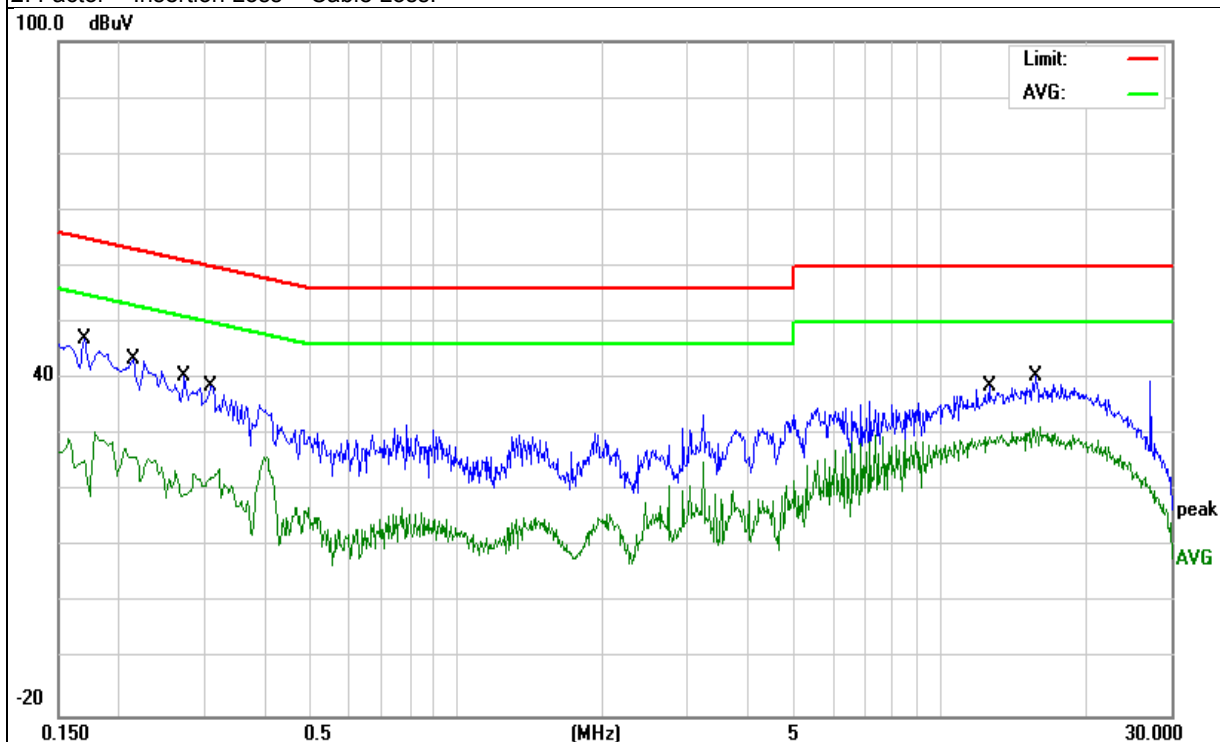


EUT:	Coalesce Meeting Place Edition	Model Name. :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2017-11-02
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from Adapter AC240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	47.14	0.00	47.14	64.96	-17.82	QP
0.1700	30.46	0.00	30.46	54.96	-24.50	AVG
0.2139	43.49	0.00	43.49	63.05	-19.56	QP
0.2139	27.19	0.00	27.19	53.05	-25.86	AVG
0.2740	40.30	0.00	40.30	60.99	-20.69	QP
0.2740	23.65	0.00	23.65	50.99	-27.34	AVG
0.3099	38.79	0.00	38.79	59.97	-21.18	QP
0.3099	24.04	0.00	24.04	49.97	-25.93	AVG
12.5938	38.59	0.00	38.59	60.00	-21.41	QP
12.5938	29.78	0.00	29.78	50.00	-20.22	AVG
15.7779	40.41	0.00	40.41	60.00	-19.59	QP
15.7779	31.18	0.00	31.18	50.00	-18.82	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. 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 is a broadband antenna, and its 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. 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 height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

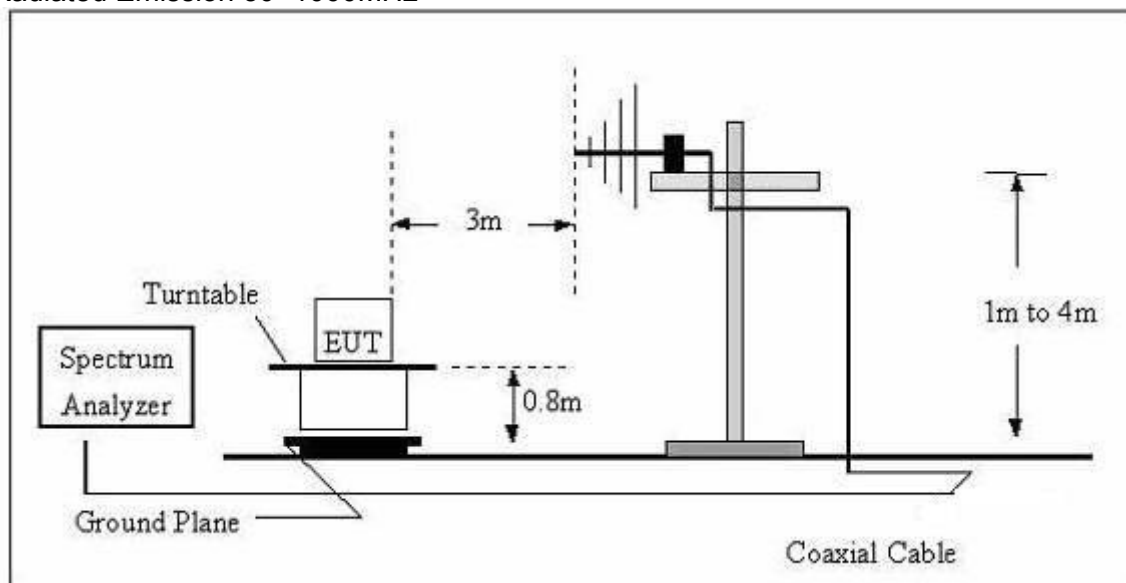
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

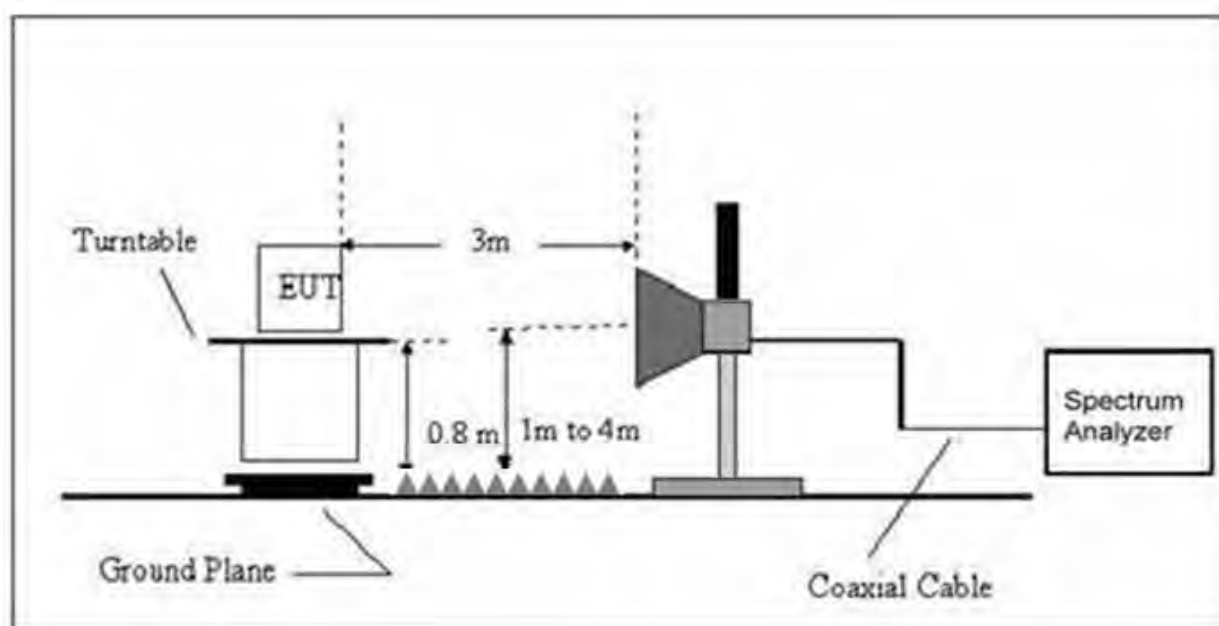
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 TEST RESULTS

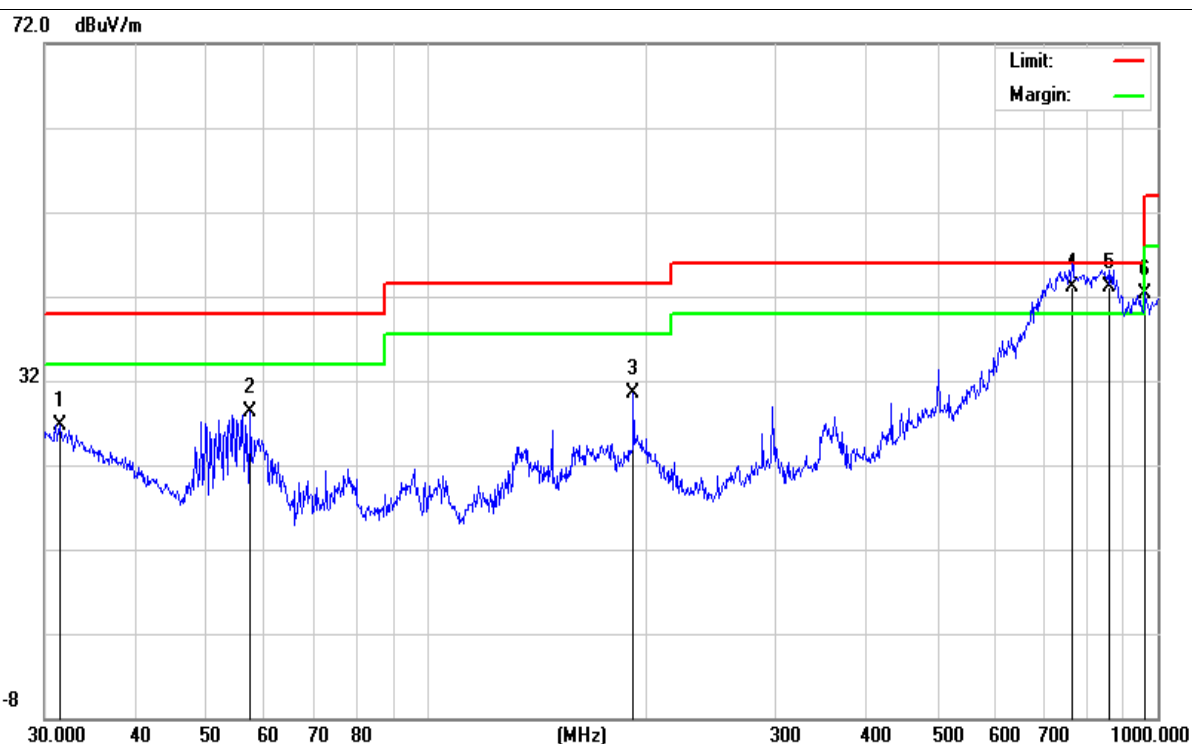
TEST RESULTS (30~1000 MHz)

EUT:	Coalesce Meeting Place Edition	Model Name:	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	51%
Pressure:	1010 hPa	Test Date :	2017-11-02
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from Adapter AC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.5094	6.21	20.55	26.76	40.00	-13.24	QP
H	57.3923	16.55	11.83	28.38	40.00	-11.62	QP
H	191.7450	17.34	13.08	30.42	43.50	-13.08	QP
H	763.3757	20.77	22.33	43.10	46.00	-2.90	QP
H	857.0247	17.34	25.86	43.20	46.00	-2.80	QP
H	962.1622	15.36	27.04	42.40	54.00	-11.60	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

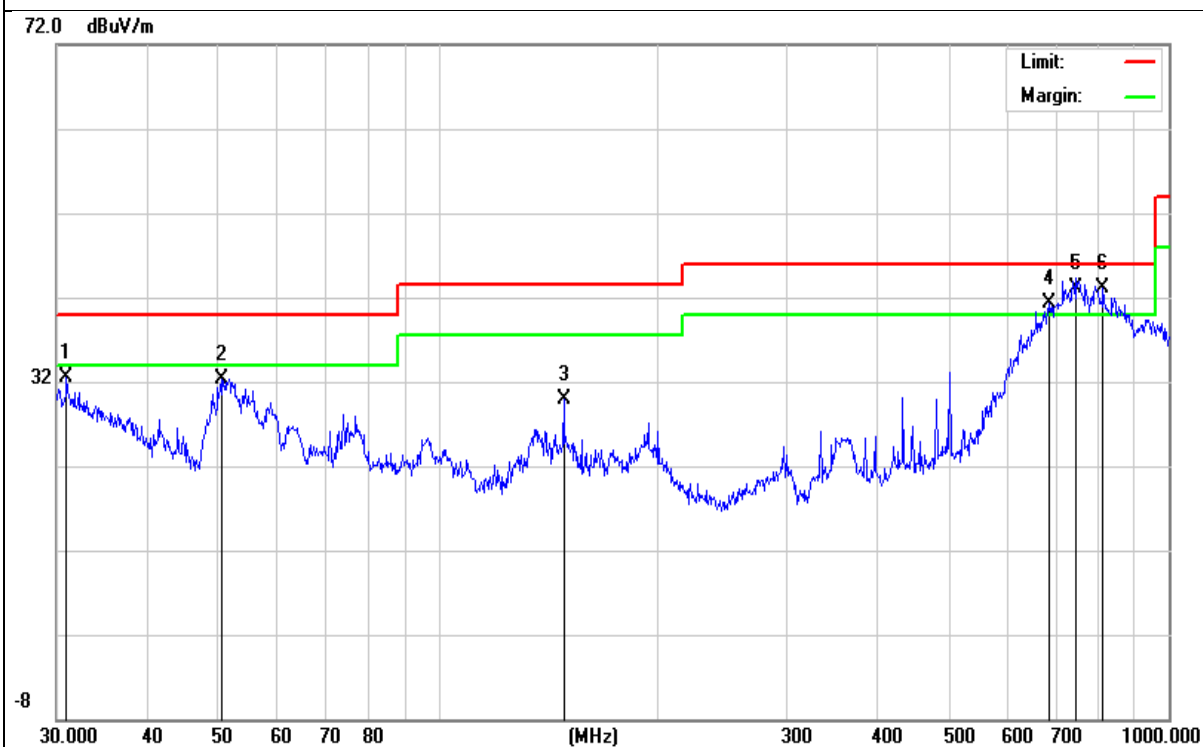


EUT:	Coalesce Meeting Place Edition	Model Name :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	51%
Pressure:	1010 hPa	Test Date :	2017-11-02
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from Adapter AC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.9618	11.76	20.79	32.55	40.00	-7.45	QP
V	50.4089	19.05	13.33	32.38	40.00	-7.62	QP
V	148.4410	18.61	11.30	29.91	43.50	-13.59	QP
V	687.1507	20.18	21.04	41.22	46.00	-4.78	QP
V	747.4825	20.80	22.40	43.20	46.00	-2.80	QP
V	813.1115	18.90	24.26	43.16	46.00	-2.84	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~6000MHz)

EUT:	Coalesce Meeting Place Edition	Model Name :	WC-COA-MPE
Temperature:	25 °C	Relative Humidity:	51%
Pressure:	1010 hPa	Test Date :	2017-11-02
Test Mode :	Mode 1		
Test Power :	DC 5V from Adapter AC120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
V	1087.86	46.76	-10.5	36.22	74	-37.8	Pk
V	1087.86	29.5	-10.5	18.96	54	-35	AV
V	1336.78	47.86	-10.2	37.62	74	-36.4	Pk
V	1336.78	28.6	-10.2	18.36	54	-35.6	AV
V	1633.86	43.75	-8.99	34.76	74	-39.2	Pk
V	1633.86	25.4	-8.99	16.41	54	-37.6	AV
V	4545.04	34.96	3.62	38.58	74	-35.4	Pk
V	4545.04	21.3	3.62	24.92	54	-29.1	AV
H	1093.72	44.73	-10.5	34.28	74	-39.7	Pk
H	1093.72	27.8	-10.5	17.35	54	-36.7	AV
H	1633.86	44.22	-8.99	35.23	74	-38.8	Pk
H	1633.86	27.6	-8.99	18.61	54	-35.4	AV
H	2376	40.57	-5.58	34.99	74	-39	Pk
H	2376	25.8	-5.58	20.22	54	-33.8	AV
H	4917.86	33.03	4.82	37.85	74	-36.2	Pk
H	4917.86	20.4	4.82	25.22	54	-28.8	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Note: Only the worst results data points are reported in the report.