



EMC Labs Co., Ltd.

#426 Shaum-Dong, Icheon-Shi, Gyeonggi-Do, 467-080, Korea
Tel : +82-31-637-8895, Fax : +82-505-116-8895

FCC CERTIFICATION REPORT

FCC ID : **2ADCJ30PROLED**

Type of equipment : 30" Pro LED Backlit 120Hz Gaming Display

Model Name : 30" Pro LED Backlit Gaming Display

Report No: **KR0140-FCC-14003**

FCC Registration Number (FRN) : 0023990286

Applicant : Crossoverzone Co., Ltd.

Address : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do,
Korea

Manufacturer: Crossoverzone Co., Ltd.

Address : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do,
Korea

Date of Issue : Oct.07.2014

Test required : FCC part 15 subpart B, Class B

ANSI C63.4 – 2009

Equipment Classification : Part 15 Class B Computing Device Peripheral (JBP)

The above equipment was tested by EMC Labs Testing Laboratory
For compliance with the requirements of FCC Rules and Regulations. The
results of testing in this report apply to the product / system which was tested only.

Tested by:

PARK, YONG-MIN

Reviewed by:

PARK, YONG-JIN

EMC Labs Co., Ltd.

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TEST REPORT

Test Report File No : KR0140-FCC-14003
Date of Receipt : Sep.26.2014
Date of Issue : Oct.07.2014
Date of Testing : Sep.30~ Oct.01.2014
Model : 30" Pro LED Backlit Gaming Display
Kind of Product : 30" Pro LED Backlit 120Hz Gaming Display
Applicant : Crossoverzone Co., Ltd.
Address : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea
Manufacturer : Crossoverzone Co., Ltd.
Address : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea
Test Standards : FCC part 15 subpart B, Class B

Test Procedure and Items

- AC Power Line Conducted Emissions Measurement: ANSI C63.4-2009
- Radiated Emissions Measurement : ANSI C63.4-2009

Testing Laboratory : EMC Labs Co., Ltd.

Test Result : Complied

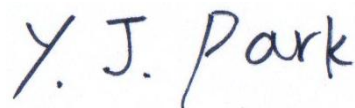
The above equipment was tested by EMC Labs Co., Ltd with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested by:



PARK, YONG-MIN

Reviewed by:



PARK, YONG-JIN

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1. Applicant Information

- ◆ **Applicant** : Crossoverzone Co., Ltd.
- ◆ **Address** : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea
- ◆ **Telephone Number** : +82-32-672-4011
- ◆ **FAX Number** : +82-32-321-4065
- ◆ **E-mail** : P21sh@naver.com
- ◆ **Contact Person** : Sang Hyun – Park
- ◆ **Manufacture** : Crossoverzone Co., Ltd.
- ◆ **Address** : 2F, 16-13, Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea

2. Laboratory Information

Address

EMC Labs Co., Ltd.

Laboratory : #426 Shaum-Dong, Icheon-Shi, Gyeonggi-Do, 467-080, Korea

Telephone Number : +82-31-637-8895

Facsimile Number : +82-505-116-8895

FCC Filing No. : 888495

FCC CAB : KR0140

SITE MAP



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3. Equipment Under Test

3.1 General Information

- ☒ Table-Top
 ☐ Floor – Standing
☐ Table-Top & Floor-Standing (combination)

3.2 Configuration of the equipment under test

Equipment	Model	Manufacture	Serial No.
PC	SKY550BLACKBURN	SKYDIGITAL	SKY809248
PS/2 KEYBOARD	MK-1007	Royche	-
USB MOUSE	GP-M3100UE	GP ELECTRON	1801341200682
HEADSET	FS-850	FUSION FNC	-

Type	Description	Connection	Type of shield	Type of Ferrite	Length(m)
DC Power	24 VDC	Adapter	Non-Shield	Bonded a ferrite core	1.8
Signal	VGA	PC	Shield	Bonded a ferrite core	1.8
	DVI	PC	Shield	Bonded a ferrite core	1.8
	HDMI	PC	Shield	Non-ferrite core	1.5
	DISPLAY PORT	PC	Shield	Non-ferrite core	1.9
	AUDIO IN	PC	Shield	Non-ferrite core	1.3
	AUDIO OUT	HEADSET	Shield	Non-ferrite core	1.8
	OPTICAL	OPEN	Non-Shield	Non-ferrite core	1.0
	DC IN	Adapter	Non-Shield	Bonded a ferrite core	1.5

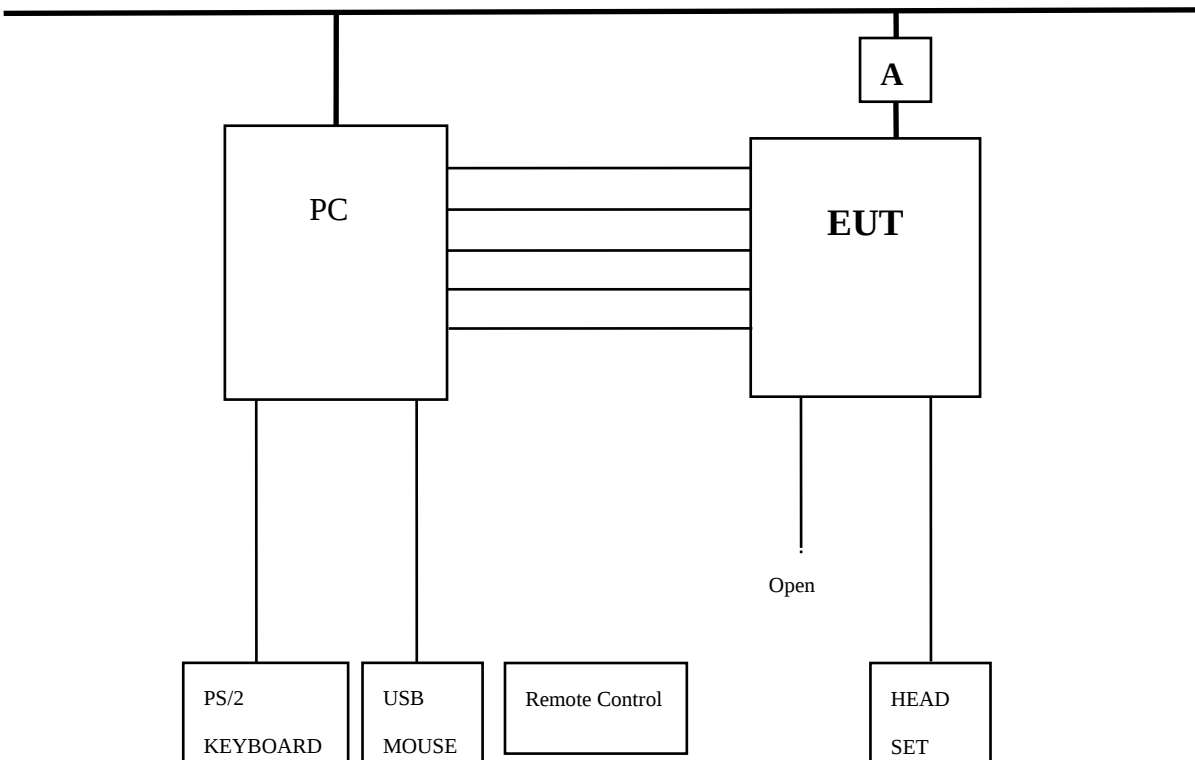
3.3 Operating Conditions

The equipment under test was operated during the measurement under following

Test mode	Normal Operating
1	“H” Pattern scrolling Mode
2	MP3 Play Mode.
DISPLAY Port Mode, HDMI Mode, DVI Mode, VGA Mode - (Resolution – 2560x1600, 60Hz)	

3.4 The drawing of general test setup

AC 120V/60Hz



4. Summary

In the above configuration tested, The EUT complied with the requirement of the specification

4.1 Modification to the E.U.T.

- No modifications to the EUT were necessary to comply.

4.2 Standards & results

FCC Part 15 Subpart B (Class B)

ANSI C63.4 – 2009

Clause	Test items	Test method	Result
15.107	Conducted Emission	ANSI C63.4 - 2009	Pass
15.109	Radiated Emission	ANSI C63.4 – 2009	Pass

5. Test results

5.1 Conducted Emission

Environmental Conditions

Temperature 22°C

Humidity 47 %

Test Area Conducted Room

Test date 2014.10.01

5.1.1 Limits of conducted emission measurement

Frequency [MHz]	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66-56 *	56-46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*The limit decreases linearly with the logarithm of frequency.

5.1.2 Measurement procedure

Mains

The measurements were performed in a shielded room.

EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane.

The rear of table was located 0.4 m to the vertical conducted plane.

EUT was power through the LISN, which was bonded to the ground plane.

The LISN power was filtered. Each EUT power lead, except ground (safety) lead, was individually connected through a LISN to input power source.

All I.O cables are positioned to simulate typical actual usage according to the test standard.

Both lines of power cord, hot and neutral, were measured.

5.1.3 Used equipments

Equipment	Model	Makers	Serial No.	Next Cal. Date	Used
Test Receiver	LSA-30	LIG Nex1	L07126026	2015.01.24	☒
LISN	ENV216	ROHDE	100409	2015.01.24	☒
LISN	3825/2	EMCO	8901-1458	2015.02.05	☒

5.1.4 Measurement uncertainty

Conducted emission measurement : (k=2, 95%)

9kHz-150 kHz : ± 4.64 [dB]

150kHz-30 MHz : ± 2.20 [dB]

5.1.5 Test data

- Note. QP = Quasi-Peak, AV=CISPR-Average
- Loss = LISN Loss + Cable Loss
- Measurement time : 1 s

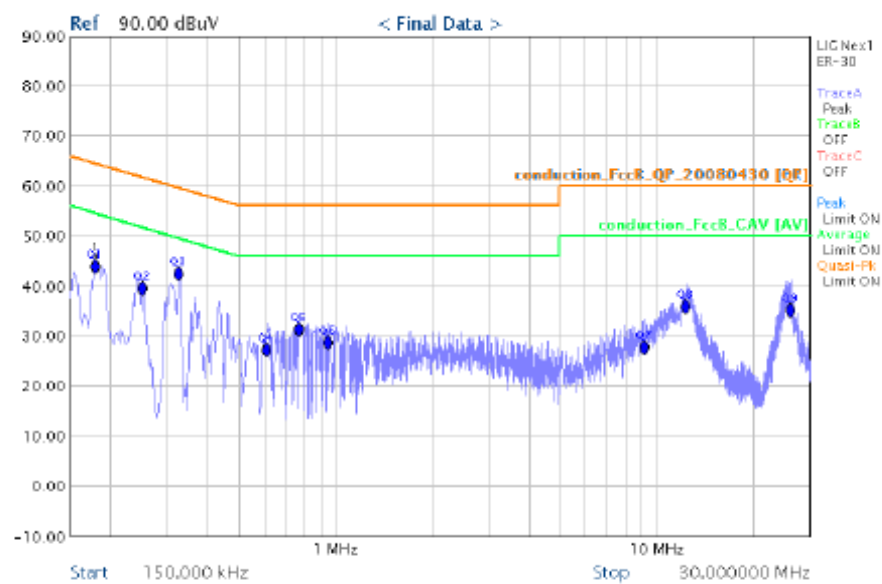
5.1.6 Test Result

[Quasi-Peak]

[HOT] – DISPLAY Port Mode

CONDUCTED EMISSION

SCREEN SHOT



FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.180000	43.66	10.35	64.49	20.82	Pass	QP
2	0.252000	39.34	9.94	61.69	22.35	Pass	QP
3	0.327000	42.20	10.10	59.53	17.32	Pass	QP
4	0.614000	27.05	10.21	56.00	28.95	Pass	QP
5	0.773000	31.16	10.13	56.00	24.84	Pass	QP
6	0.947000	28.52	10.10	56.00	27.48	Pass	QP
7	9.200000	27.57	10.20	60.00	32.43	Pass	QP
8	12.360000	35.74	10.23	60.00	24.26	Pass	QP
9	26.090000	35.07	10.43	60.00	24.93	Pass	QP

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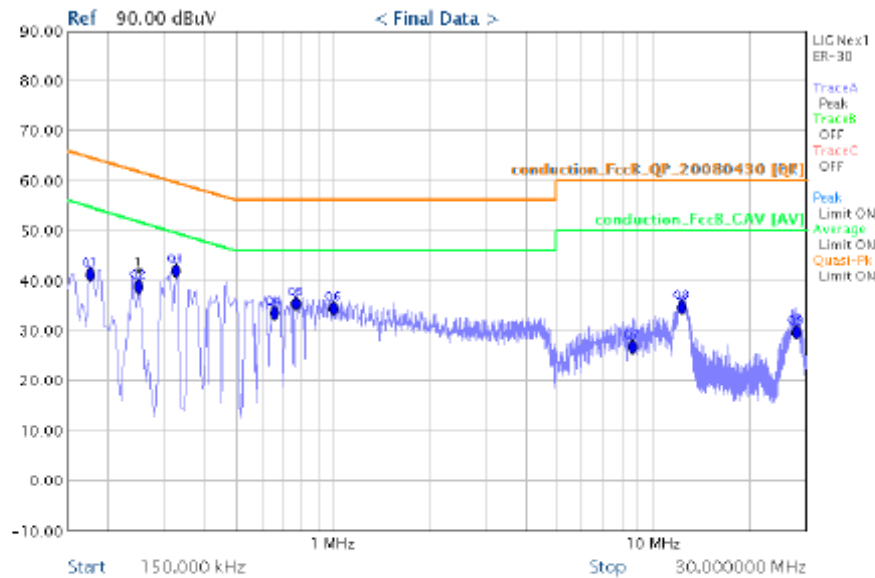
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CONDUCTED EMISSION

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FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.177000	41.20	10.36	64.63	23.43	Pass	QP
2	0.249000	38.76	9.94	61.79	23.03	Pass	QP
3	0.327000	41.79	10.10	59.53	17.74	Pass	QP
4	0.659000	33.38	10.19	56.00	22.62	Pass	QP
5	0.773000	35.28	10.14	56.00	20.72	Pass	QP
6	1.010000	34.27	10.11	56.00	21.73	Pass	QP
7	8.630000	26.59	10.19	60.00	33.41	Pass	QP
8	12.350000	34.68	10.23	60.00	25.32	Pass	QP
9	28.100000	29.53	10.43	60.00	30.47	Pass	QP

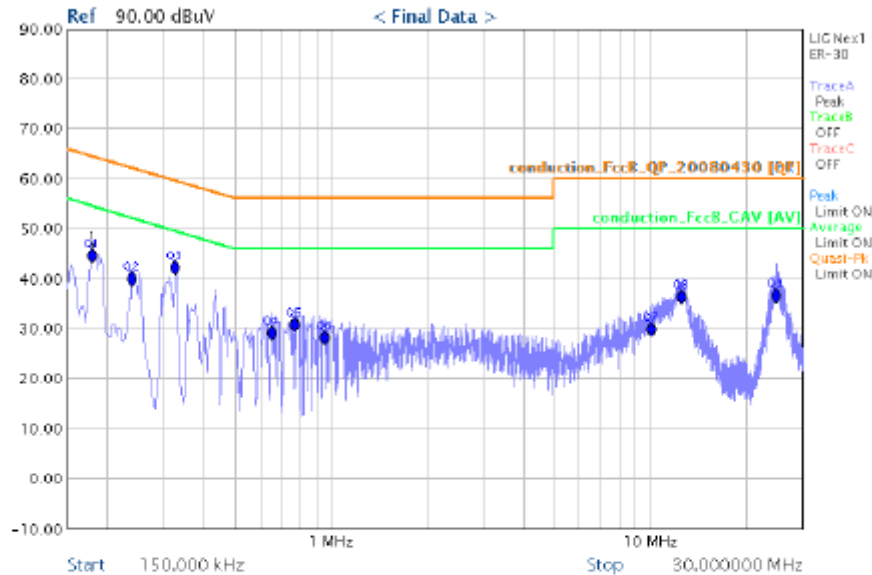
Comment :

- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

[HOT] – HDMI Mode

CONDUCTED EMISSION

SCREEN SHOT



FINAL TABLE

(Final Table - Quasi-Pk)

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.180000	44.49	10.35	64.49	20.00	Pass	QP
2	0.240000	39.88	9.99	62.10	22.21	Pass	QP
3	0.327000	42.15	10.10	59.53	17.38	Pass	QP
4	0.656000	29.01	10.19	56.00	26.99	Pass	QP
5	0.776000	30.75	10.13	56.00	25.25	Pass	QP
6	0.962000	28.04	10.11	56.00	27.96	Pass	QP
7	10.110000	29.81	10.22	60.00	30.19	Pass	QP
8	12.520000	36.35	10.24	60.00	23.65	Pass	QP
9	24.879999	36.62	10.40	60.00	23.38	Pass	QP

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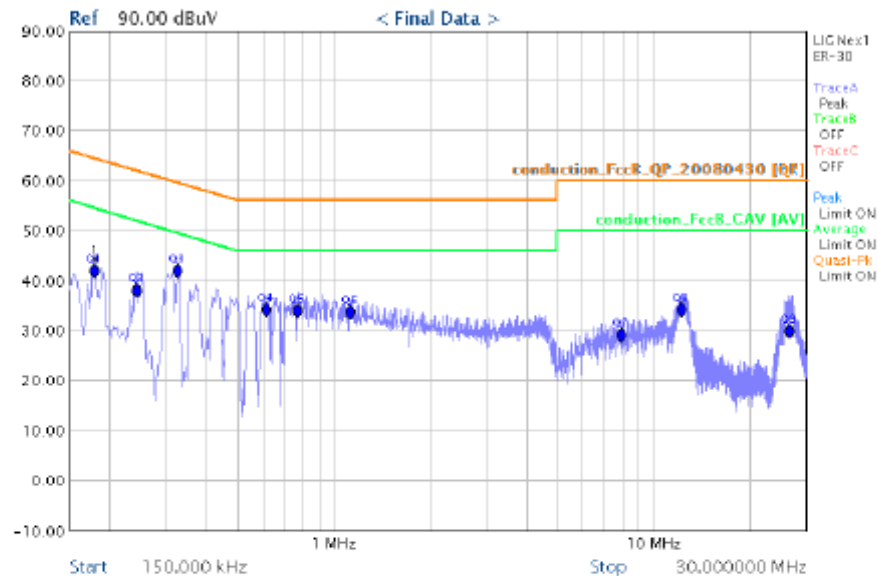
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CONDUCTED EMISSION

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FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.180000	41.91	10.34	64.49	22.58	Pass	QP
2	0.243000	37.84	9.97	61.99	24.15	Pass	QP
3	0.327000	41.90	10.10	59.53	17.62	Pass	QP
4	0.617000	34.06	10.22	56.00	21.94	Pass	QP
5	0.776000	33.93	10.14	56.00	22.07	Pass	QP
6	1.133000	33.70	10.10	56.00	22.30	Pass	QP
7	7.910000	28.97	10.17	60.00	31.03	Pass	QP
8	12.260000	34.08	10.23	60.00	25.92	Pass	QP
9	26.670000	29.79	10.40	60.00	30.21	Pass	QP

Comment :

- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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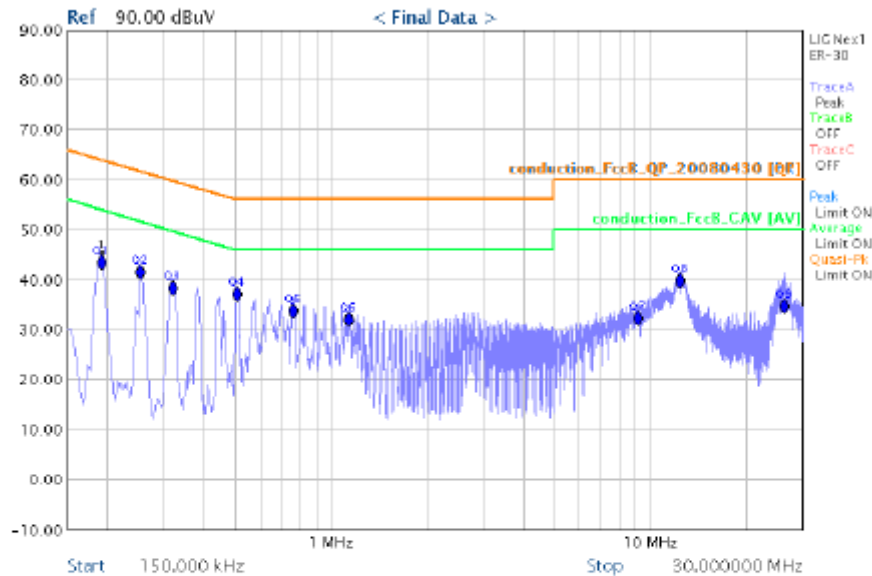
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[HOT] – DVI Mode

CONDUCTED EMISSION

SCREEN SHOT



FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.192000	43.23	10.26	63.95	20.72	Pass	QP
2	0.255000	41.24	9.95	61.59	20.35	Pass	QP
3	0.321000	38.09	10.09	59.68	21.59	Pass	QP
4	0.509000	36.93	10.23	56.00	19.07	Pass	QP
5	0.767000	33.50	10.13	56.00	22.50	Pass	QP
6	1.142000	31.98	10.09	56.00	24.02	Pass	QP
7	9.200000	32.03	10.20	60.00	27.97	Pass	QP
8	12.460000	39.72	10.23	60.00	20.28	Pass	QP
9	26.270000	34.62	10.43	60.00	25.38	Pass	QP

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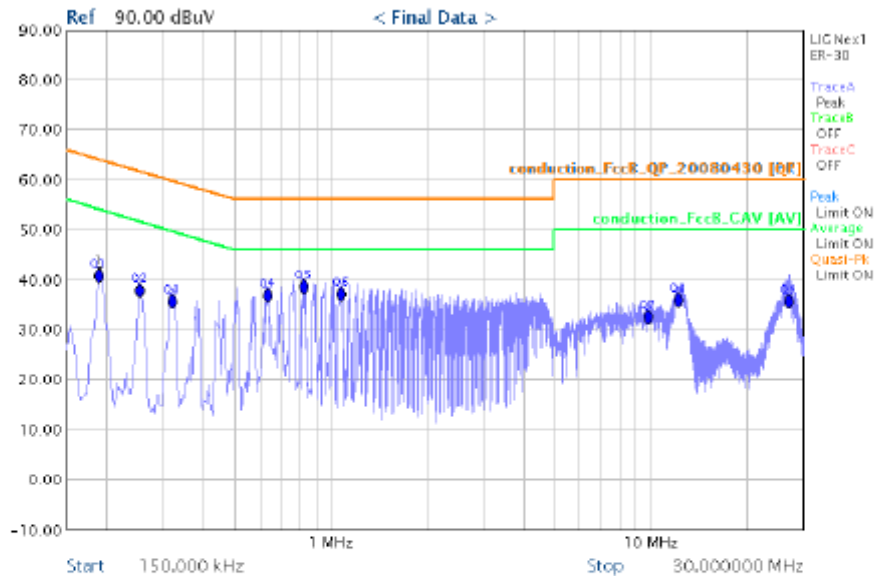
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CONDUCTED EMISSION

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FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.189000	40.61	10.27	64.08	23.47	Pass	QP
2	0.255000	37.70	9.95	61.59	23.89	Pass	QP
3	0.321000	35.43	10.09	59.68	24.25	Pass	QP
4	0.638000	36.79	10.21	56.00	19.21	Pass	QP
5	0.830000	38.32	10.12	56.00	17.68	Pass	QP
6	1.085000	37.05	10.10	56.00	18.95	Pass	QP
7	9.890000	32.40	10.22	60.00	27.60	Pass	QP
8	12.200000	35.71	10.23	60.00	24.29	Pass	QP
9	27.080000	35.44	10.41	60.00	24.56	Pass	QP

Comment :

- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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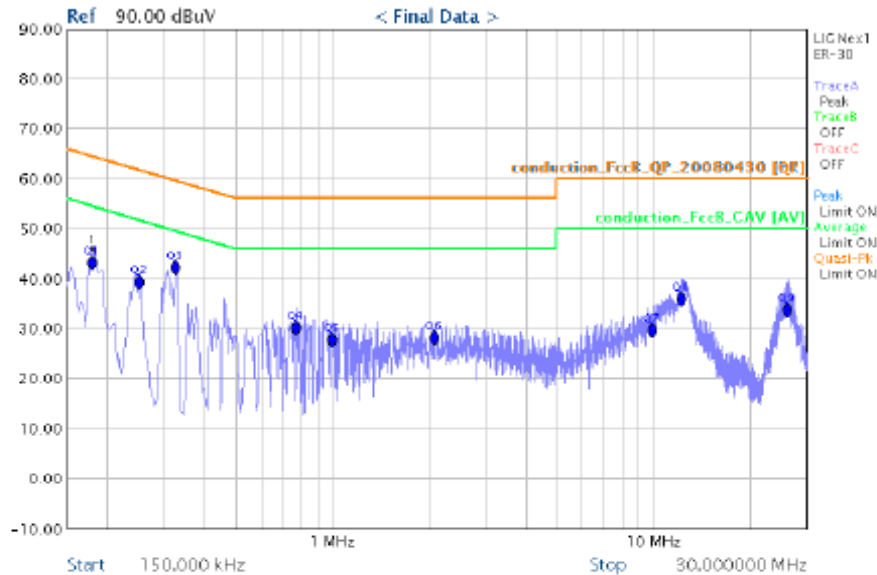
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[HOT] – VGA Mode

CONDUCTED EMISSION

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[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.180000	42.99	10.35	64.49	21.49	Pass	QP
2	0.252000	39.14	9.94	61.69	22.56	Pass	QP
3	0.327000	42.03	10.10	59.53	17.50	Pass	QP
4	0.776000	29.86	10.13	56.00	26.14	Pass	QP
5	1.001000	27.61	10.11	56.00	28.39	Pass	QP
6	2.084000	28.04	10.01	56.00	27.96	Pass	QP
7	9.950000	29.54	10.22	60.00	30.46	Pass	QP
8	12.210000	35.78	10.23	60.00	24.22	Pass	QP
9	26.059999	33.62	10.43	60.00	26.38	Pass	QP

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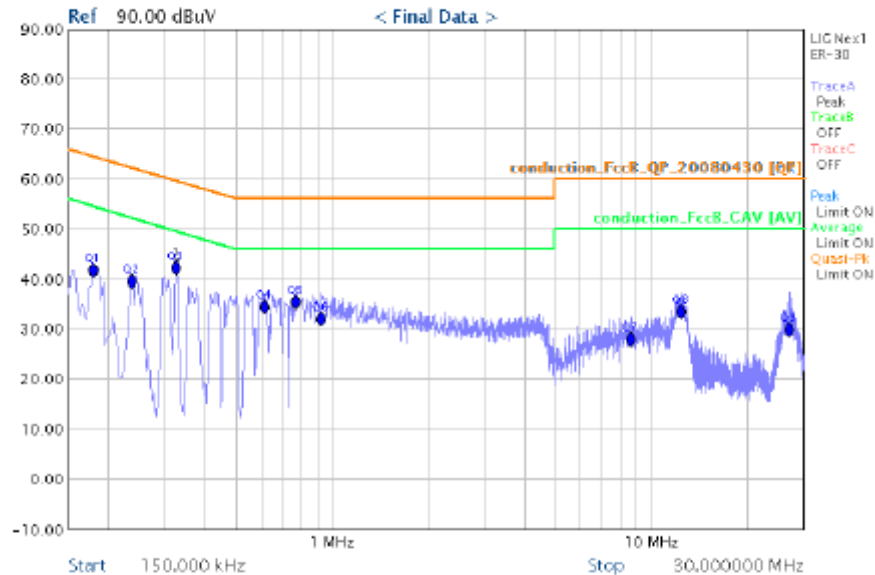
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CONDUCTED EMISSION

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FINAL TABLE

[Final Table - Quasi-Pk]

No	Freq (MHz)	Level (dBuV)	Corr (dB)	Limit (dBuV)	Margin (dB)	State	Reference
1	0.180000	41.53	10.34	64.49	22.96	Pass	QP
2	0.237000	39.35	10.00	62.20	22.85	Pass	QP
3	0.327000	41.99	10.10	59.53	17.53	Pass	QP
4	0.617000	34.26	10.22	56.00	21.74	Pass	QP
5	0.773000	35.31	10.14	56.00	20.69	Pass	QP
6	0.923000	31.95	10.10	56.00	24.05	Pass	QP
7	8.630000	27.72	10.19	60.00	32.28	Pass	QP
8	12.440000	33.44	10.23	60.00	26.56	Pass	QP
9	26.980000	29.67	10.41	60.00	30.33	Pass	QP

Comment :

- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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5.2 Radiated emission

Environmental Conditions

Temperature	25 °C - Open Area Test site (10m) 21 °C - 3m Chamber
Humidity	66 % R.H. - Open Area Test site (10m) 42 % R.H. - 3m Chamber
Test Area	Open Area Test site (10m) – Below 1GHz 3m Chamber – Above 1GHz
Test date	2014.09.30

5.2.1 Limits of conducted emission measurement

For unintentional device, according to FCC 5.109(a), the field strength of radiated emission from unintentional radiators at a distance of 10 meters shall not exceed the following Values:

Frequency [MHz]	Distance Meters	Radiated dBuV/m	Radiated uV/m
30 - 88	10	39.0	90
88 - 216	10	43.5	150
216 - 960	10	46.4	210
Above 960	10	49.5	300

For unintentional device, according to FCC 5.109(a), the field strength of radiated emission from unintentional radiators at a distance of 3 meters shall not exceed the following Values:

Frequency [MHz]	Distance Meters	Radiated dBuV/m	Radiated uV/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
Above 960	3	54.0	500

For unintentional device, according to CISPR Line Radiated Emission Limits class A is as following.

Frequency [MHz]	Distance Meters	Radiated dBuV/m
30 to 230	10	40
230 to 1000	10	47

For unintentional device, according to CISPR Line Radiated Emission Limits class B is as following.

Frequency [MHz]	Distance Meters	Radiated dBuV/m
30 to 230	10	30
230 to 1000	10	37

For 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 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

5.2.2 Measurement procedure

A pretest was performed at 3 m distance in a mini chamber for searching correct frequency.

The final test was done at a 10 m open area test site with a quasi-peak detector.

EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane.

They were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.

Cables connected to EUT were fixed to cause maximum emission.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization.

The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

5.2.3 Used equipments

* Below 1GHz

Equipment	Model no	Makers	Serial no.	Next cal. date	Used
Test Receiver	ESVS 10	Rohde&Schwarz	846285/004	2015.01.24	☒
controller	ESDC-CT	EMC Labs	-	-	☒
Antenna master	ESDC-AM	EMC Labs	-	-	☒
Turn table	ESDC-TT	EMC Labs	-	-	☒
Bi-Log ANT	VULB9160	Schwarzbeck	VULB 9160-3260	2015.08.19	☒
Biconical Ant	VHA9103	Schwarzbeck	ESDC9103	2015.07.25	☐
Log-periodic Ant	UHALP9107	Schwarzbeck	1382	2015.07.25	☐
Amplifier	310N	SONOMA INSTRUMENT	185757	2015.03.26	☒

* Above 1GHz

Equipment	Model no	Makers	Serial no.	Next cal. date	Used
Spectrum Analyzer	E4440A	Agilent	MY43362353	2014.12.07	☒
controller	ACT	AUDIX	060552	-	☒
Antenna master	-	AUDIX	-	-	☒
Turn table	-	AUDIX	-	-	☒
Horn ANT	BBHA9120D	Schwarzbeck	974	2016.01.13	☒
Amplifier	ASF4-00100800-28-20P-4	SELLEX	1663658	2014.12.07	☒

5.2.4 Measurement uncertainty

Radiated Emission measurement : (k=2, 95%)

30-300 MHz ; 3 m: ± 3.721 [dB], 10 m: +3.706, -3.707 [dB]

300-1000 MHz ; 3 m: ± 3.818 [dB], 10 m: ± 3.802 [dB]

5.2.5 Test data

* Receiving Antenna Mode : Horizontal, Vertical

* 10 m OATS, 3 m Chamber

* Note : Reading = Test Receiver meter,

P= Polarization → H = Horizontal, V = Vertical

Result = Field Strength (Antenna factor + Cable factor + +Reading - Amp Gain)

5.2.6 Test Result

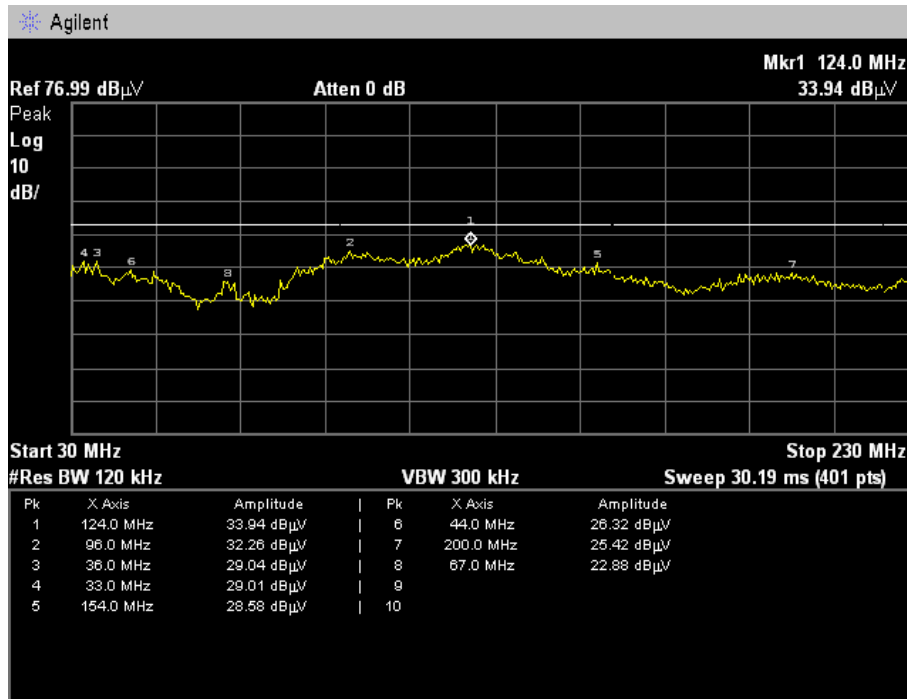
[Below 1GHz] – DISPLAY Port Mode

B

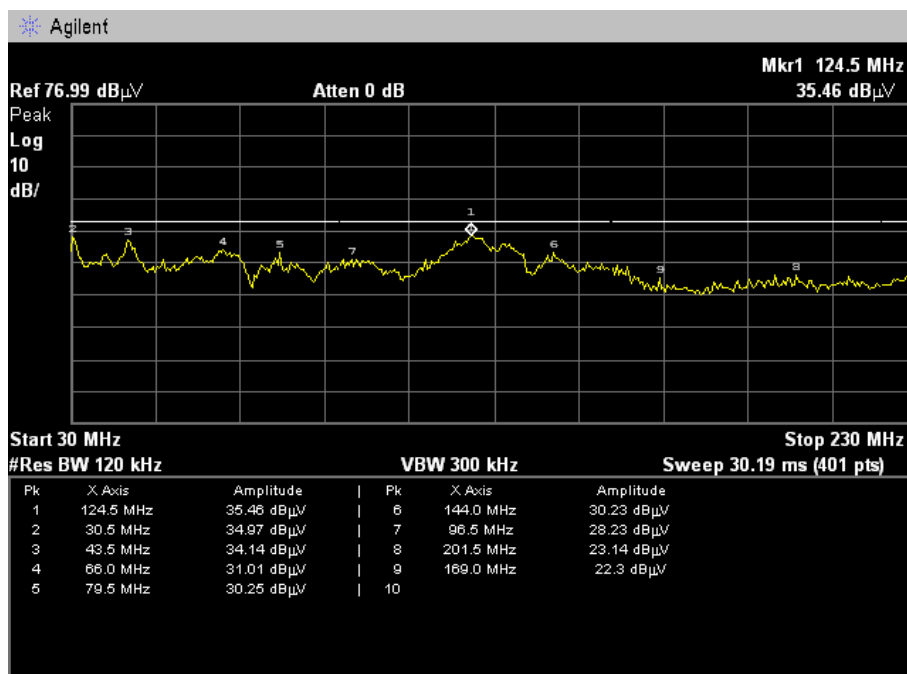
Frequency [MHz]	Reading [dBμV]	Pol.	Height [m]	angle [°]	Correction			Limits [dBμV/m]	Result [dBμV/m]
					Antenna [dB/m]	Cable [dB]	Amp Gain [dB]		
43.00	29.60	V	1.0	180	11.72	1.36	18.93	30	23.74
66.00	25.40	V	1.0	200	10.26	1.88	18.93	30	18.61
124.00	29.60	V	1.0	190	11.12	2.84	18.92	30	24.64
728.50	21.60	V	1.1	250	21.65	7.42	18.82	37	31.85
872.40	21.10	V	1.0	200	23.47	8.09	18.82	37	33.83
940.20	19.00	H	1.0	90	24.21	8.46	18.84	37	32.83

***3m Chamber Pre-scan Data**

[HORIZONTAL] - 30~230MHz



[VERTICAL] - 30~230MHz



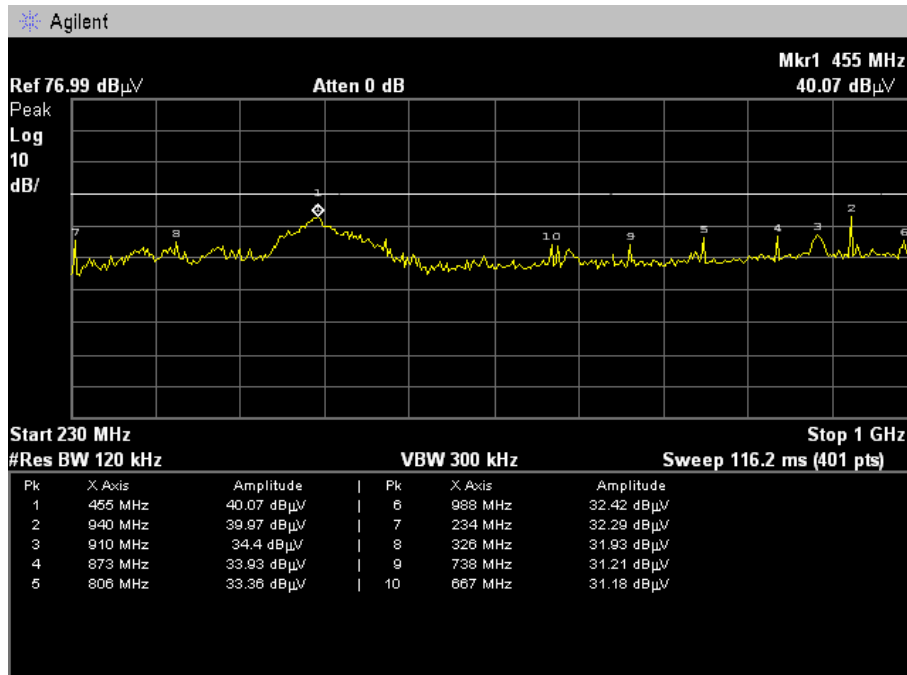
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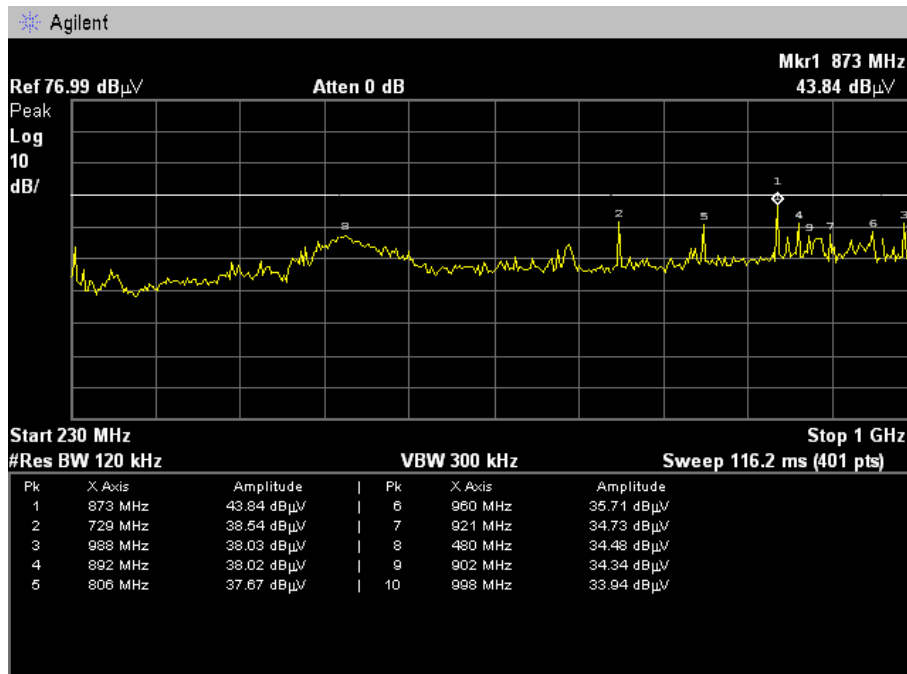
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[HORIZONTAL] - 230~1000MHz



[VERTICAL] - 230~1000MHz



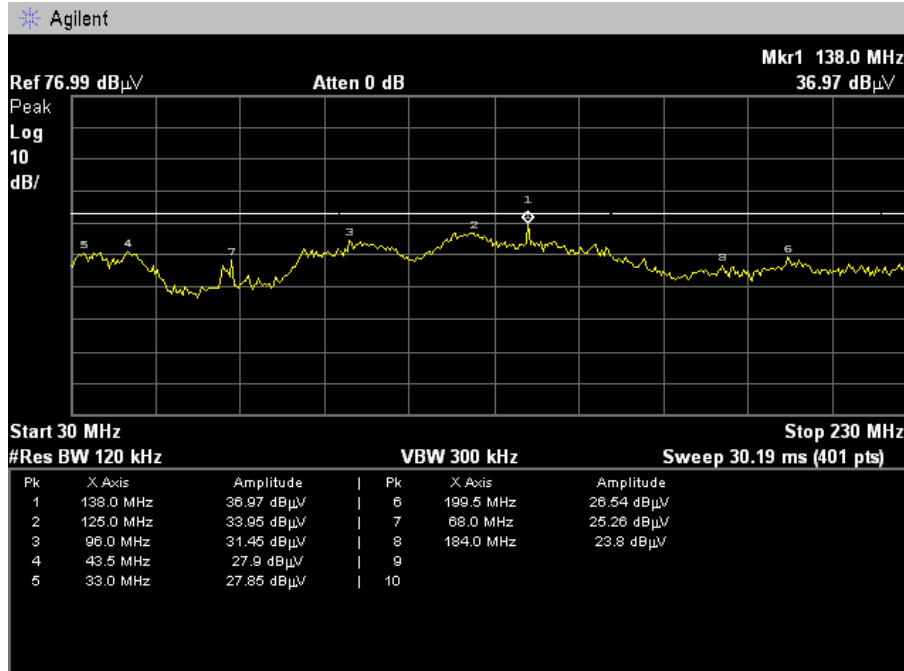
[Below 1GHz] – HDMI Mode

B

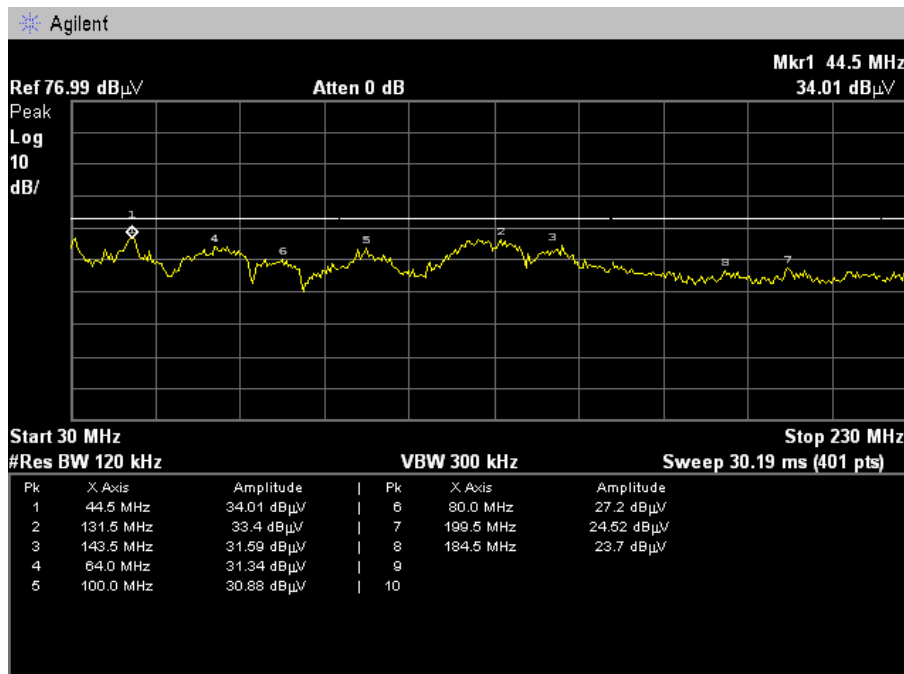
Frequency [MHz]	Reading [dBμV]	Pol.	Height [m]	angle [°]	Correction			Limits [dBμV/m]	Result [dBμV/m]
					Antenna [dB/m]	Cable [dB]	Amp Gain [dB]		
44.00	30.10	V	1.0	190	11.79	1.38	18.93	30	24.34
130.00	28.10	V	1.1	200	11.58	2.90	18.92	30	23.66
137.60	30.10	H	4.0	60	12.10	2.97	18.91	30	26.26
453.00	25.60	H	2.3	50	16.93	5.82	18.83	37	29.53
552.70	25.80	V	1.0	160	19.11	6.42	18.82	37	32.50
868.50	20.80	V	1.1	200	23.43	8.07	18.82	37	33.48

***3m Chamber Pre-scan Data**

[HORIZONTAL] - 30~230MHz



[VERTICAL] - 30~230MHz



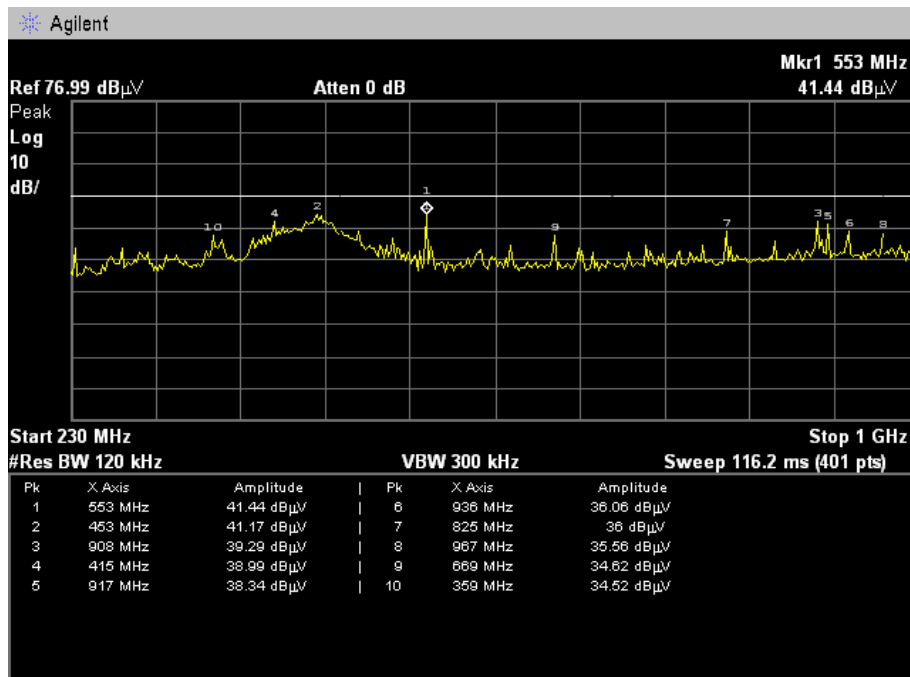
EMC Labs Co., Ltd.

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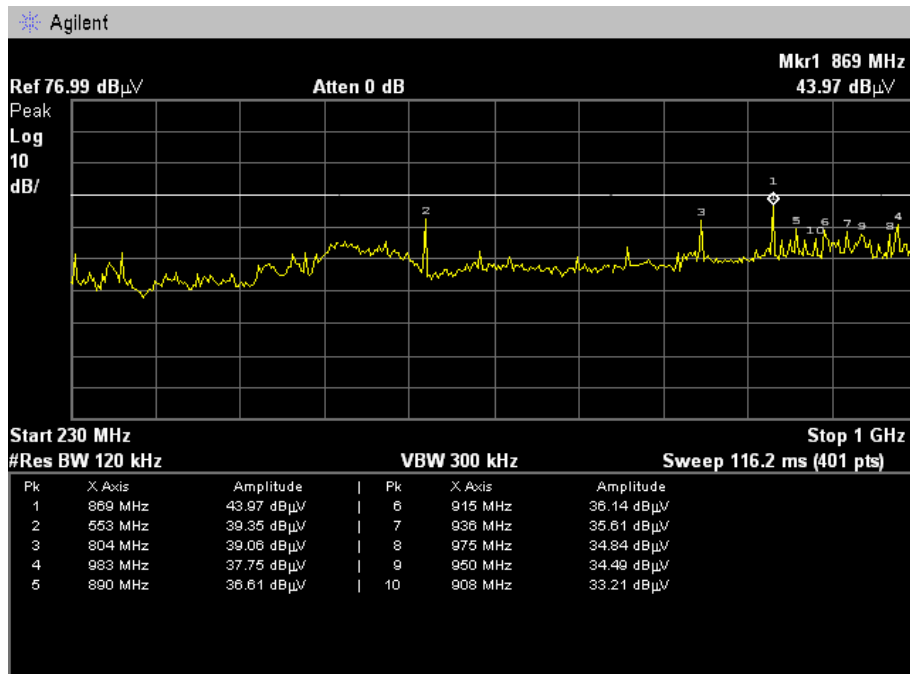
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[HORIZONTAL] - 230~1000MHz



[VERTICAL] - 230~1000MHz



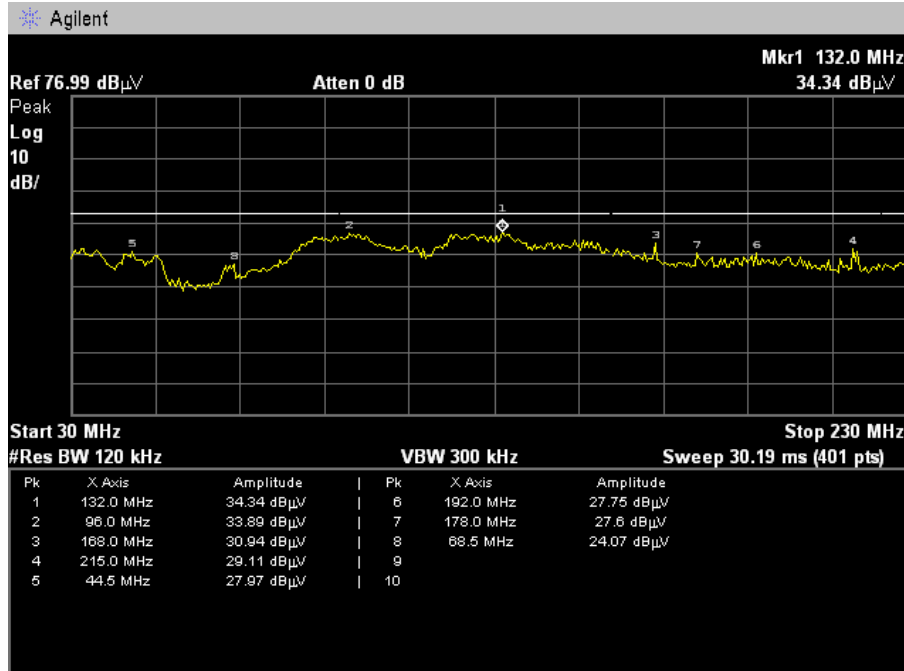
[Below 1GHz] – DVI Mode

B

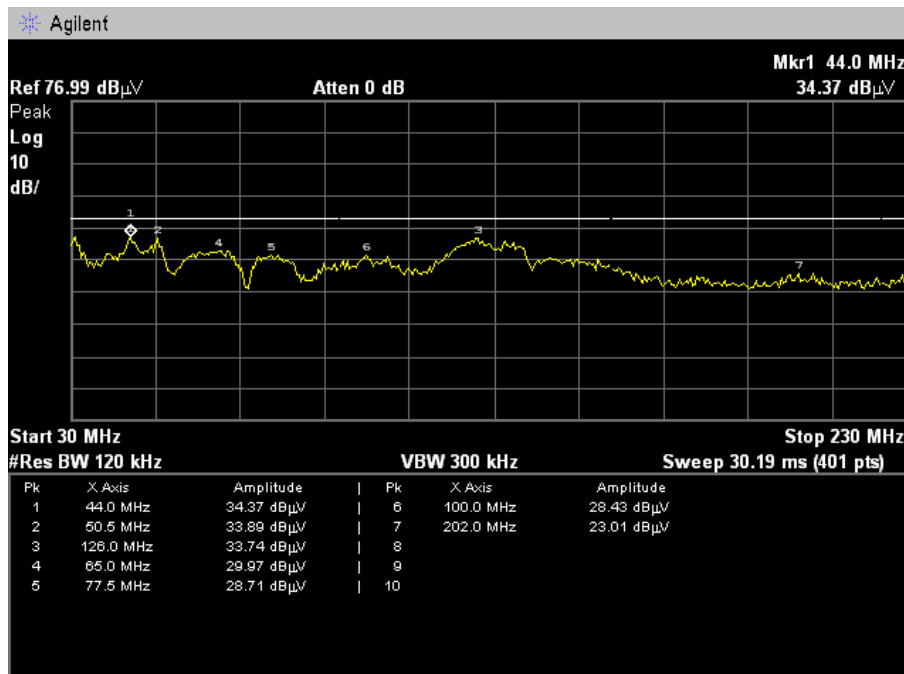
Frequency [Mhz]	Reading [dBμV]	Pol.	Height [m]	angle [°]	Correction			Limits [dBμV/m]	Result [dBμV/m]
					Antenna [dB/m]	Cable [dB]	Amp Gain [dB]		
44.00	30.80	V	1.0	180	11.79	1.38	18.93	30	25.04
96.00	31.40	H	4.0	200	8.36	2.42	18.93	30	23.25
126.00	29.60	V	1.0	60	11.27	2.86	18.92	30	24.81
772.60	22.70	V	1.0	60	22.36	7.60	18.80	37	33.86
808.40	19.20	V	1.1	150	22.88	7.86	18.83	37	31.12
941.60	19.00	V	1.0	200	24.22	8.48	18.84	37	32.87

*3m Chamber Pre-scan Data

[HORIZONTAL] - 30~230MHz



[VERTICAL] - 30~230MHz



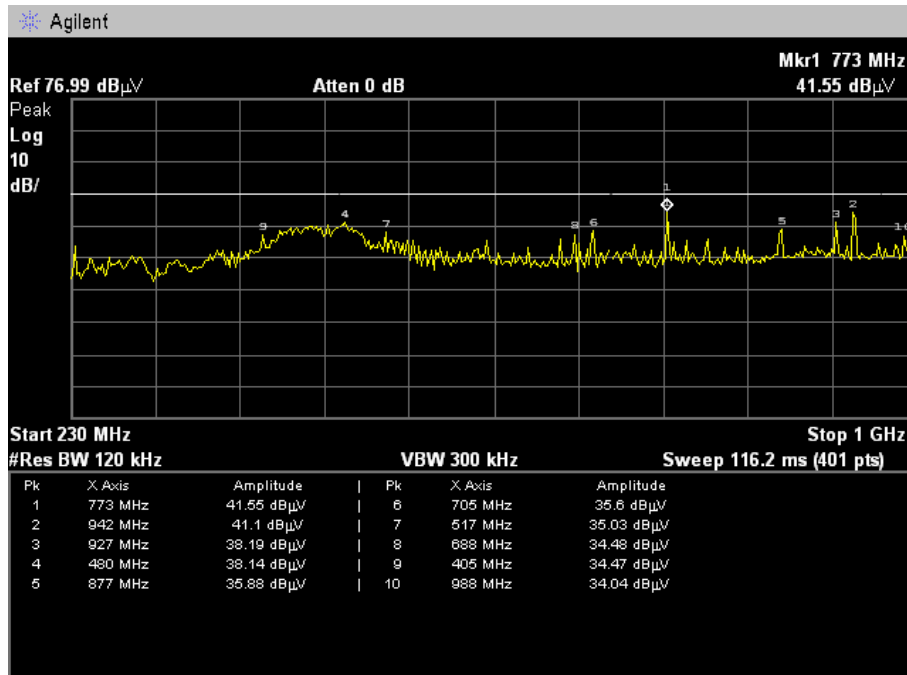
EMC Labs Co., Ltd.

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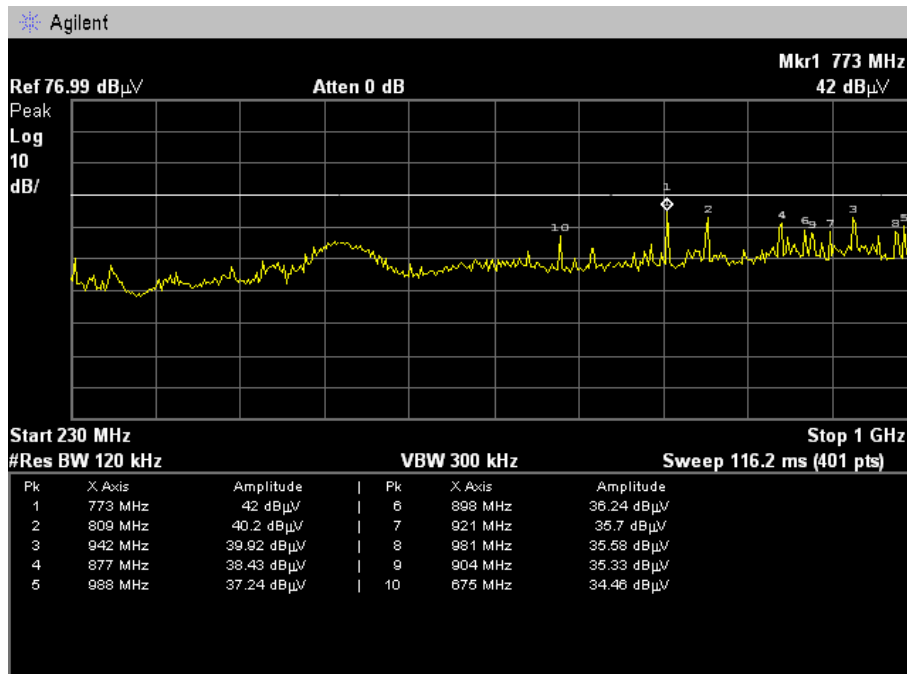
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[HORIZONTAL] - 230~1000MHz



[VERTICAL] - 230~1000MHz



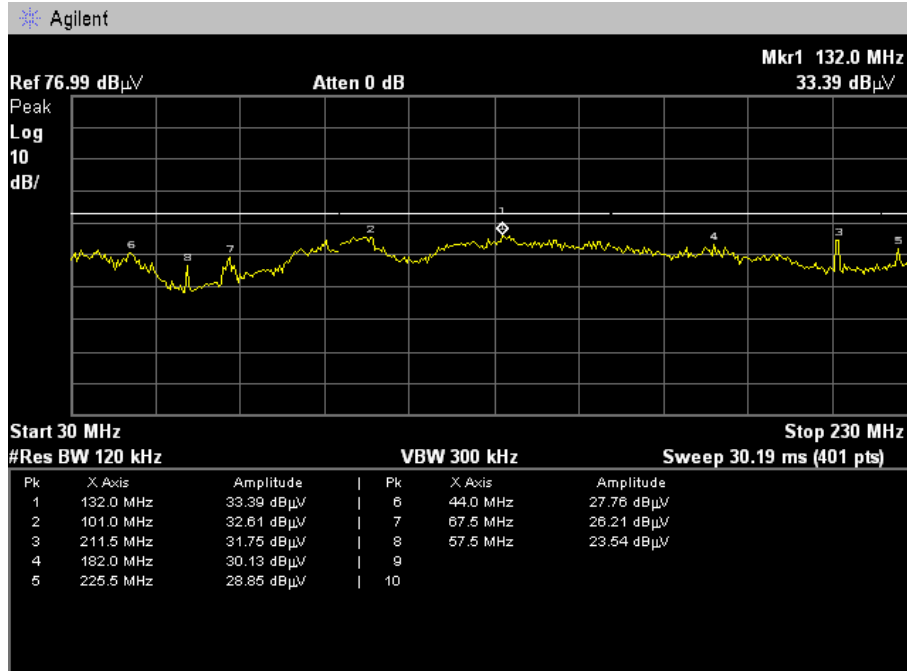
[Below 1GHz] – VGA Mode

B

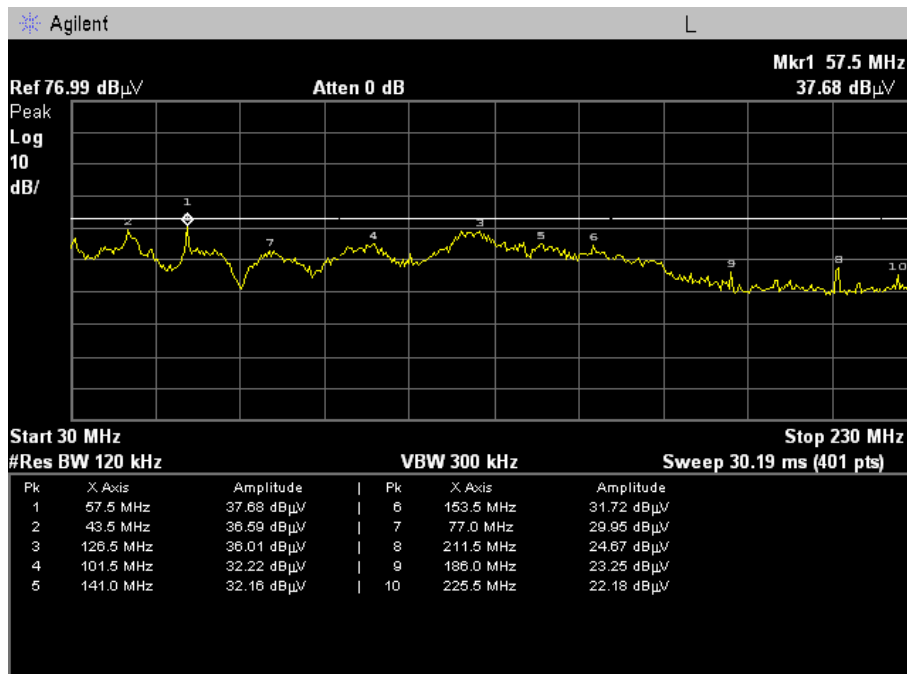
Frequency [MHz]	Reading [dBμV]	Pol.	Height [m]	angle [°]	Correction			Limits [dBμV/m]	Result [dBμV/m]
					Antenna [dB/m]	Cable [dB]	Amp Gain [dB]		
43.00	30.50	V	1.0	200	11.72	1.36	18.93	30	24.64
57.50	32.80	V	1.1	150	11.28	1.64	18.93	30	26.79
126.00	29.70	V	1.0	90	11.27	2.86	18.92	30	24.91
808.60	19.60	V	1.0	20	22.88	7.86	18.83	37	31.52
874.60	20.10	V	1.1	150	23.48	8.10	18.82	37	32.86
941.50	19.80	H	1.0	200	24.22	8.48	18.84	37	33.67

***3m Chamber Pre-scan Data**

[HORIZONTAL] - 30~230MHz



[VERTICAL] - 30~230MHz



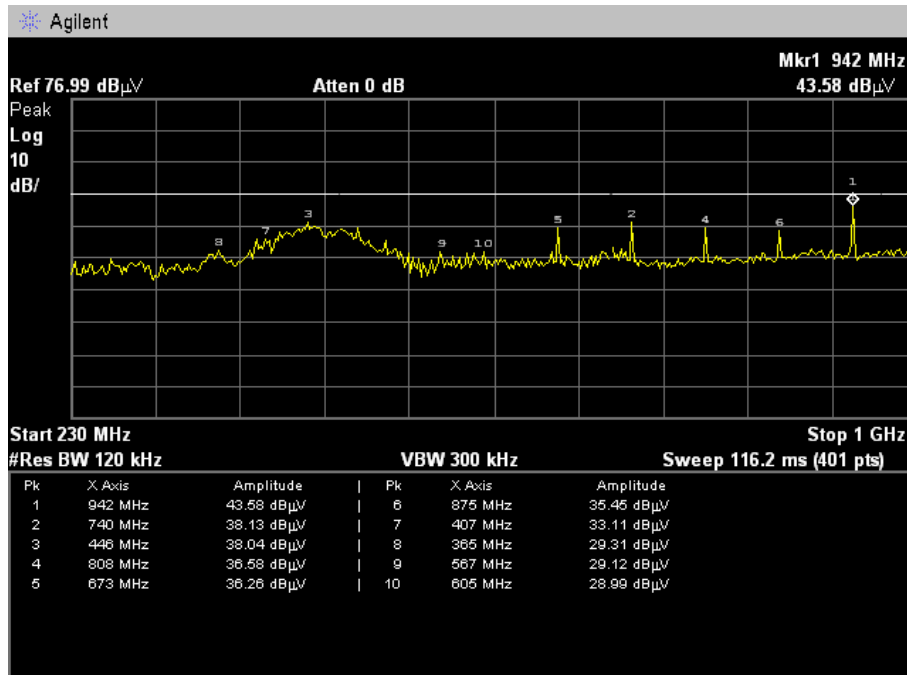
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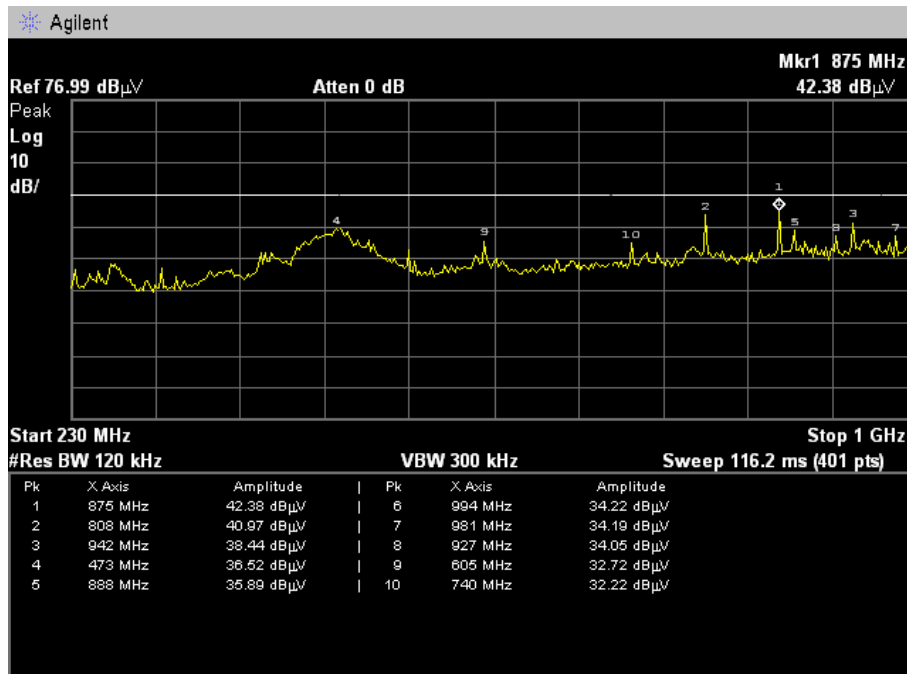
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[HORIZONTAL] - 230~1000MHz



[VERTICAL] - 230~1000MHz



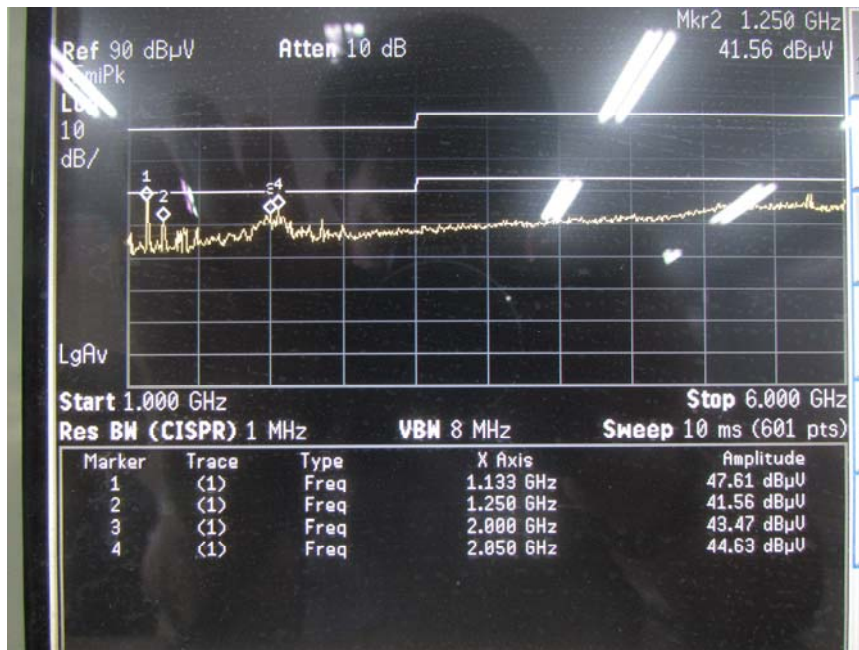
[Above 1GHz] – DISPLAY Mode

B

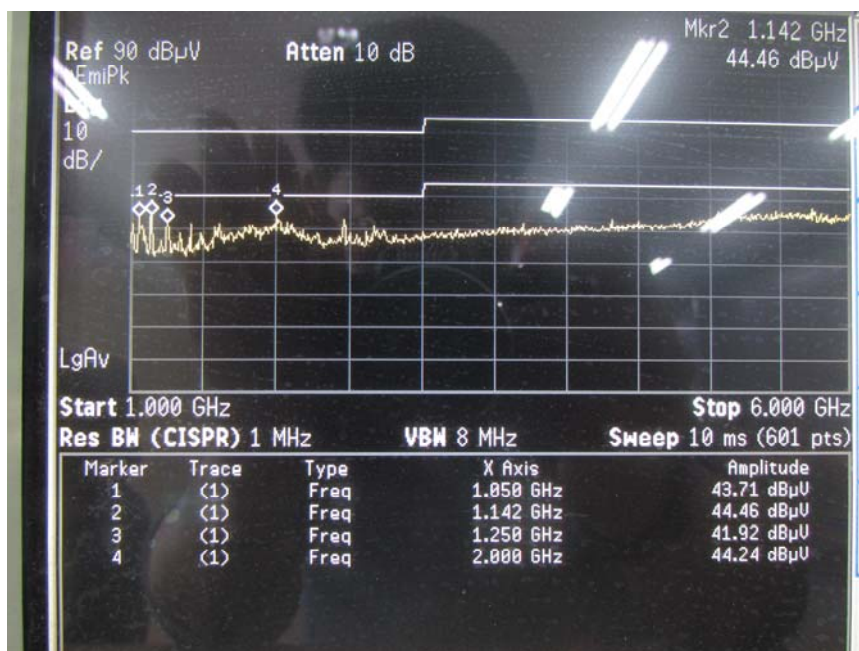
Frequency [MHz]	Total Reading [dB μ V]	Pol.	Reading [dB μ V]	AMP Gain [dB]	Correction		Limits [dB μ V/m]	Result [dB μ V/m]	
					Antenna [dB/m]	Cable [dB]			
1051.60	43.70	V	(55.45)	39.73	24.91	3.08	70	43.70	PK
1134.40	47.60	H	(58.95)	39.75	25.03	3.37	70	47.60	
1143.40	44.50	V	(55.80)	39.76	25.04	3.41	70	44.50	
2001.30	44.20	V	(53.18)	39.81	26.01	4.82	70	44.20	
2049.30	44.60	H	(53.37)	39.79	26.13	4.90	70	44.60	
5741.80	49.30	H	(43.85)	37.40	32.04	10.81	74	49.30	
1051.60	37.50	V	(49.25)	39.73	24.91	3.08	50	37.50	CAV
1134.40	40.60	H	(51.95)	39.75	25.03	3.37	50	40.60	
1143.40	28.70	V	(40.00)	39.76	25.04	3.41	50	28.70	
2049.30	28.20	V	(36.97)	39.79	26.13	4.90	50	28.20	
3001.30	29.10	H	(33.36)	39.32	28.61	6.45	54	29.10	
5741.80	43.50	H	(38.05)	37.40	32.04	10.81	54	43.50	

***3m Chamber Data (Peak)**

[HORIZONTAL]



[VERTICAL]



[Above 1GHz] – HDMI Mode

B

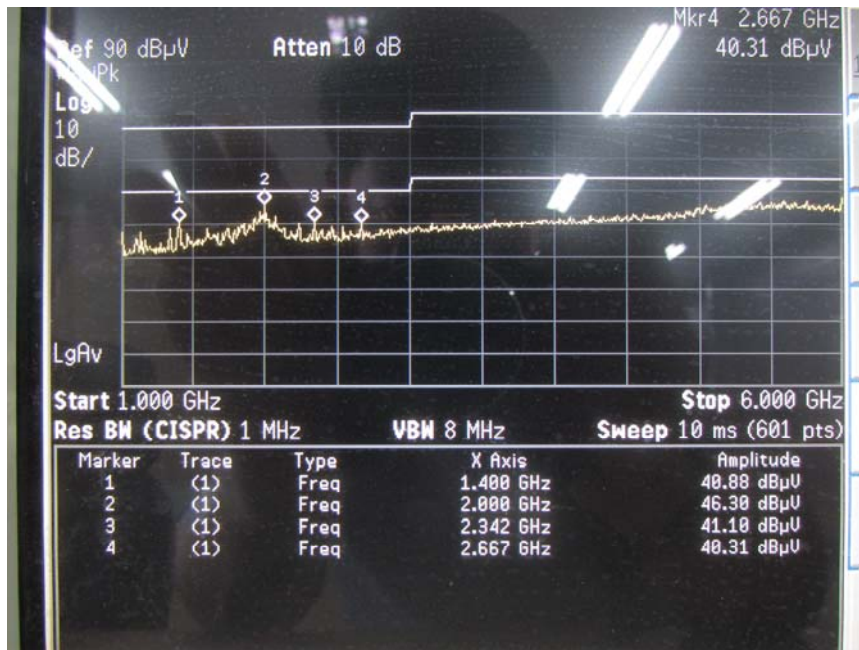
Frequency [MHz]	Total Reading [dB μ V]	Pol.	Reading [dB μ V]	AMP Gain [dB]	Correction		Limits [dB μ V/m]	Result [dB μ V/m]
					Antenna [dB/m]	Cable [dB]		
1001.40	46.20	V	(58.19)	39.72	24.83	2.90	70	46.20
1057.60	43.00	V	(54.75)	39.73	24.91	3.08	70	43.00
1401.50	41.60	V	(51.86)	39.65	25.43	3.96	70	41.60
1857.40	44.40	V	(53.69)	39.81	25.88	4.64	70	44.40
2001.40	46.30	H	(55.28)	39.81	26.01	4.82	70	46.30
2066.80	42.30	H	(50.96)	39.78	26.19	4.93	70	42.30
1001.40	39.40	V	(51.39)	39.72	24.83	2.90	50	39.40
1057.60	36.50	V	(48.25)	39.73	24.91	3.08	50	36.50
1401.50	35.60	V	(45.86)	39.65	25.43	3.96	50	35.60
1857.40	37.80	V	(47.09)	39.81	25.88	4.64	50	37.80
2001.40	38.20	H	(47.18)	39.81	26.01	4.82	50	38.20
2066.80	37.40	H	(46.06)	39.78	26.19	4.93	50	37.40

PK

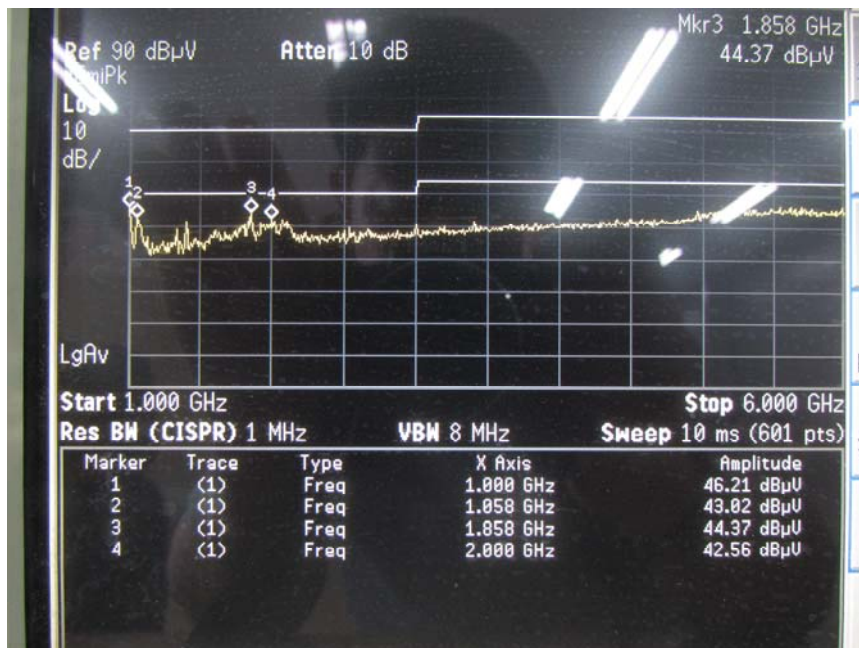
CAV

*3m Chamber Data (Peak)

[HORIZONTAL]



[VERTICAL]



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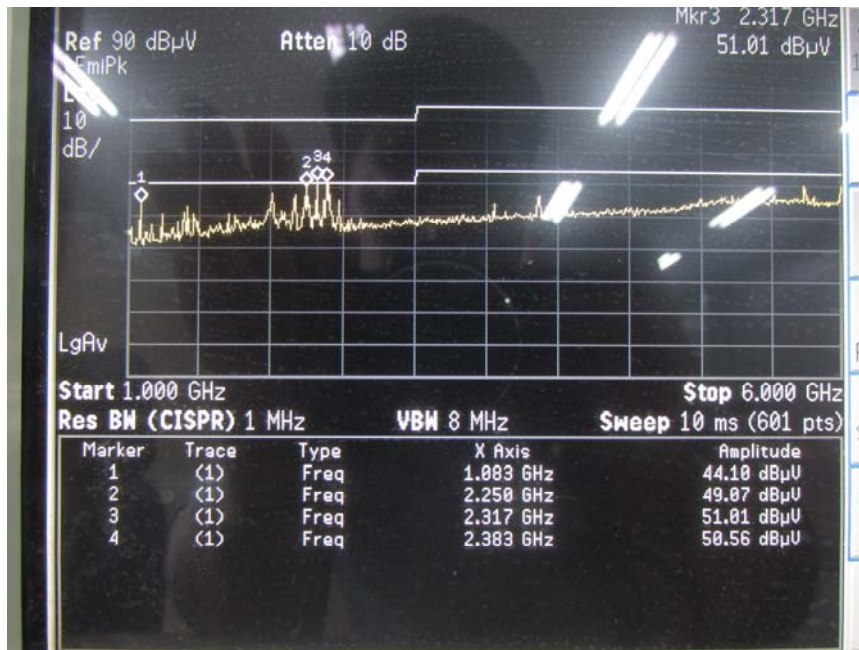
[Above 1GHz] – DVI Mode

B

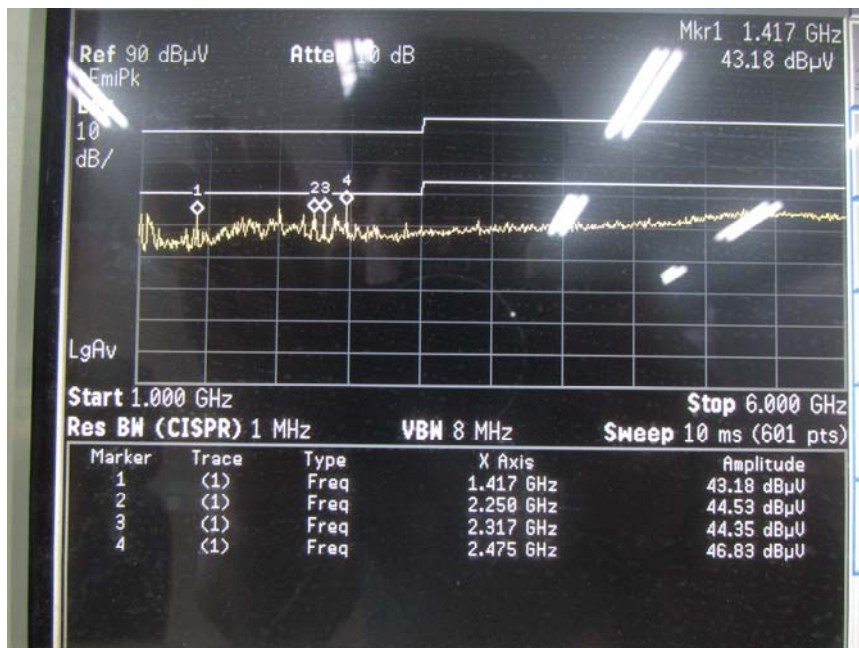
Frequency [MHz]	Total Reading [dB μ V]	Pol.	Reading [dB μ V]	AMP Gain [dB]	Correction		Limits [dB μ V/m]	Result [dB μ V/m]	
					Antenna [dB/m]	Cable [dB]			
2007.60	46.90	H	(55.88)	39.81	26.01	4.82	70	46.90	PK
2251.30	49.10	H	(56.78)	39.73	26.75	5.31	70	49.10	
2316.80	51.00	H	(58.39)	39.75	26.93	5.43	70	51.00	
2382.20	50.60	H	(57.65)	39.77	27.13	5.58	70	50.60	
2476.40	46.80	V	(53.51)	39.76	27.40	5.65	70	46.80	
5732.40	49.90	H	(44.43)	37.40	32.03	10.84	74	49.90	
2007.60	39.80	H	(48.78)	39.81	26.01	4.82	50	39.80	CAV
2251.30	43.60	H	(51.28)	39.73	26.75	5.31	50	43.60	
2316.80	45.20	H	(52.59)	39.75	26.93	5.43	50	45.20	
2382.20	39.50	H	(46.55)	39.77	27.13	5.58	50	39.50	
2476.40	39.50	V	(46.21)	39.76	27.40	5.65	50	39.50	
5732.40	43.70	H	(38.23)	37.40	32.03	10.84	54	43.70	

***3m Chamber Data (Peak)**

[HORIZONTAL]



[VERTICAL]



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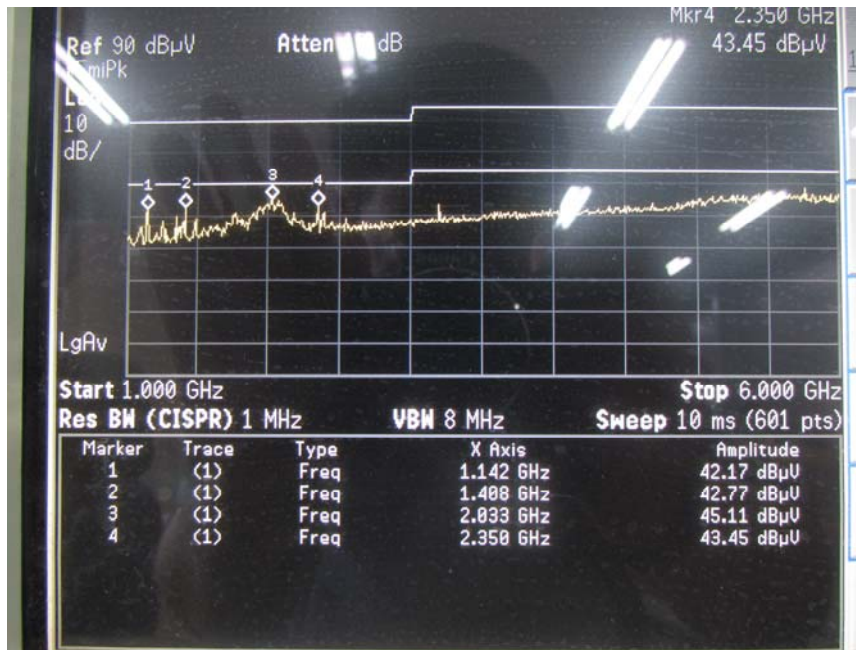
[Above 1GHz] – VGA Mode

B

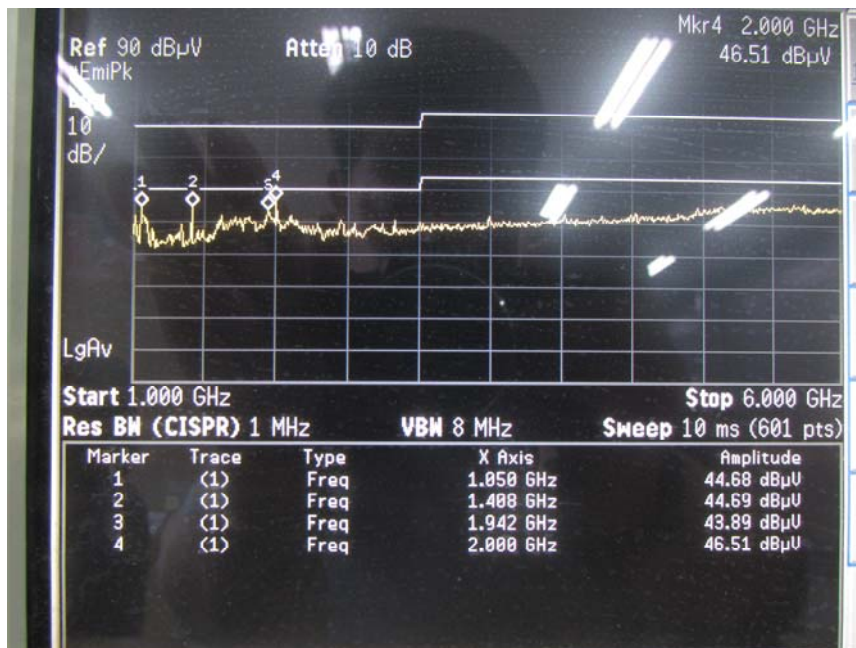
Frequency [MHz]	Total Reading [dB μ V]	Pol.	Reading [dB μ V]	AMP Gain [dB]	Correction		Limits [dB μ V/m]	Result [dB μ V/m]	
					Antenna [dB/m]	Cable [dB]			
1051.40	44.70	V	(56.45)	39.73	24.91	3.08	70	44.70	PK
1407.80	44.70	V	(54.96)	39.65	25.43	3.96	70	44.70	
1943.60	43.90	V	(53.00)	39.81	25.96	4.75	70	43.90	
2001.30	46.50	V	(55.48)	39.81	26.01	4.82	70	46.50	
2032.80	45.10	H	(53.92)	39.80	26.10	4.88	70	45.10	
2351.40	43.50	H	(50.70)	39.76	27.05	5.52	70	43.50	
1051.40	37.20	V	(48.95)	39.73	24.91	3.08	50	37.20	CAV
1407.80	37.40	V	(47.66)	39.65	25.43	3.96	50	37.40	
1943.60	36.10	V	(45.20)	39.81	25.96	4.75	50	36.10	
2001.30	39.60	V	(48.58)	39.81	26.01	4.82	50	39.60	
2032.80	38.50	H	(47.32)	39.80	26.10	4.88	50	38.50	
2351.40	35.70	H	(42.90)	39.76	27.05	5.52	50	35.70	

*3m Chamber Data (Peak)

[HORIZONTAL]



[VERTICAL]



6. Test photographs

Conducted Emission

[Front]



[Rear]



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Radiated Emission (Below 1GHz)

[Front]



[Rear]



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Radiated Emission (Above 1GHz)

[front]



[Rear]



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7. E.U.T. photographs

[Front View]



[Rear View]



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[Inside View]



[Adapter Front]



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[Adapter Rear]



[Adapter Label]

