

FCC TEST REPORT

Reference No. : G-45-2014-01097

Applicant : LG Electronics MobileComm U.S.A., Inc.

Equipment Under Test (EUT) :

Product Name : Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE
phone with Bluetooth, WLAN and RFID

Model Name : LG-D855

Added Model Names : LGD855, D855 LG-D855k, LG-D855K,
LGD855k, LGD855K, D855k, D855K

Applied Standards : FCC Part 15 Subpart B, Class B

ANSI C63.4 : 2009

CISPR 22 : 2008

Date of Receipt : April 11, 2014

Date of Test : April 16, 2014 ~ April 17, 2014

Date of Issue : April 30, 2014

Test Results : Complied

Tested by :



Clark Lee

Reviewed by :



Jerry Jeong

Remarks :

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1. General Information

1.1 Client Information

Applicant : LG Electronics MobileComm U.S.A., Inc.
Address of Applicant : 10101 Old Grove Road, San Diego, CA 92131

Manufacturer : LG Electronics MobileComm U.S.A., Inc.
Address of Manufacturer : 10101 Old Grove Road, San Diego, CA 92131

1.2 Test Laboratory

Name and Address : SGS Korea Co., Ltd. (Gunpo Laboratory)
4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, 435-040
Korea
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Fax : + 82 31 427 2370
e-mail : jerry.jeong@sgs.com

1.3 General Information of E.U.T.

Product Name	Cellular/PCS GSM/GPRS/EDGE/WCDMA and LTE phone with Bluetooth, WLAN and RFID
Model Name	LG-D855
Added Model Names	LGD855, D855 LG-D855k, LG-D855K, LGD855k, LGD855K, D855k, D855K
Model Difference	Only model name is difference
Serial No.	-
EMI Classification	Class B
Rated Voltage (Travel Adapter)	Input : (100 ~ 240) Va.c., (50/60) Hz, 0.3 A Output : 5.0 Vd.c., 1.8 A
Test Voltage	120 Va.c., 60 Hz
Highest Internal Frequency	2.45 GHz
Operating Frequency	2 402 MHz ~ 2 480 MHz

1.4 Operating Modes and Conditions

Operating mode	Operating condition
Mode 1 Camera	Camera View
Mode 2 CIF	Camera View
Mode 3 MP3 Player	MP3 Player
Mode 4 FM Radio	FM Radio Player
Mode 5 USB Communication	PC Link USB Communication
Mode 6 Slim Port Mode	Video Player

1.5 Auxiliary Equipments

Description	Model	Serial No.	Manufacturer
HDMI Cable	-	-	-
USB Mouse	M-U48a	-	COMPAQ
USB Keyboard	KB212-B	CN-00GD4Y-65890-12N-08XL-A00	DELL Inc.
LED LCD Monitor	E2251VQ	202LTAQ1F608	LG
Slim Port	-	-	-
Notebook Computer	7658	L3-E5323	Lenovo (singapore) Pte. Ltd.
Local Area Network	-	-	-
LCD Monitor	S2740Lb	CN-DP7D0G-74261-352-05CL	DELL Inc.

1.6 Cable List

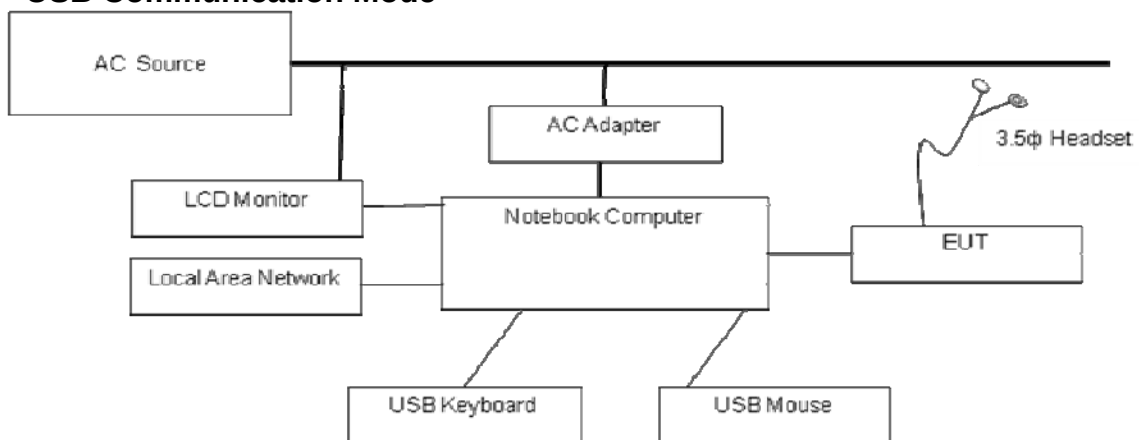
Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
USB Communication Mode					
EUT	Micro USB	Notebook Computer	USB	1.0	Shield
	3.5φ Headset	Headset	-	1.4	Shield
Notebook Computer	USB	USB Mouse	-	1.8	Shield
	USB	USB Keyboard	-	1.5	Shield
	USB	EUT	Micro USB	1.0	Shield
	DC IN	AC Adapter	DC OUT	1.8	Unshield
	RGB	LCD Monitor	RGB	1.0	Shield
	LAN	Local Area Network	LAN	3.0	Unshield
AC Adapter	AC IN	AC Source	-	1.5	Unshield
LCD Monitor	AC IN	AC Source	-	1.0	Unshield
Slim Port Mode					
EUT	Micro USB	Slim Port	-	0.1	Shield
	3.5φ Headset	Headset	-	1.4	Shield
Slim Port	HDMI	LED LCD Monitor	HDMI	1.5	Shield
	Micro USB	Travel Adapter	DC OUT	1.3	Shield
LED LCD Monitor	DC IN	Switching Adapter	DC OUT	1.2	Unshield
Switching Adapter	AC IN	AC Source	-	1.5	Unshield
Camera, CIF, MP3, FM Radio Mode					
EUT	3.5φ Headset	Headset	-	1.4	Shield

1.7 System Configurations

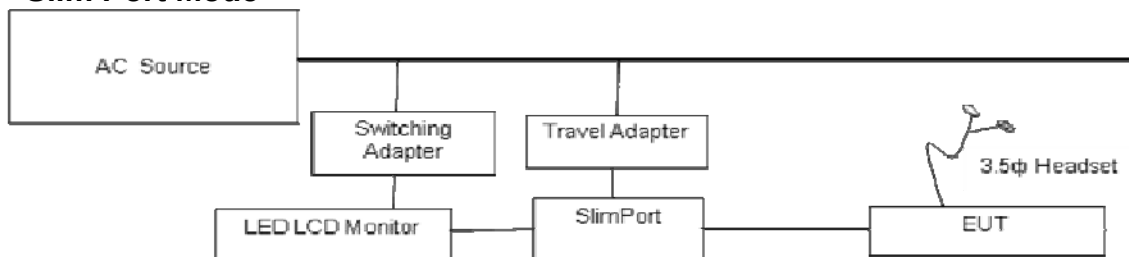
Description	Model	Serial No.	Manufacturer
Battery	BL-53YH	EAC62378907 XXB	LG Electronics Inc.
Travel Adapter	MCS-04ER	RB420013747	SUNLIN
USB Cable	-	-	-
3.5φ Headset	-	-	-

1.8 Test System Layout

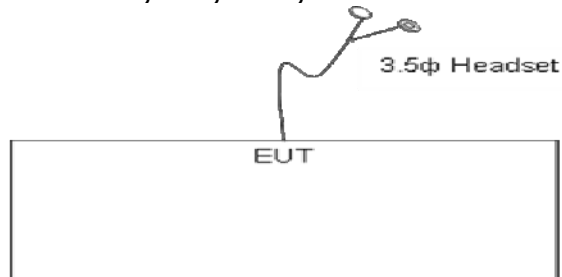
- USB Communication Mode



- Slim Port Mode



- Camera, CIF, MP3, FM Radio Mode



1.9 Modifications

There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15 Subpart B, Class B	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Basic Standards	Results
Conducted Emission	ANSI C63.4 : 2009	Complied
Radiated Emission	ANSI C63.4 : 2009	Complied

Note : Test methods of all test items are performed according to the basic standards in this table.

EMISSION

2.1 Test Results

Test Items	Basic Standards	Test Results
Conducted Emission	ANSI C63.4 : 2009	Complied
Radiated Emission	ANSI C63.4 : 2009	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	0.15 MHz ~ 30 MHz	9 kHz	N/A
Radiated Emission	30 MHz ~ 1 GHz	120 kHz	10 m & 3 m
	Above 1 GHz	1 MHz	3 m

Note : 10 m method of radiated emission measurement is only applied to Class A equipment over the frequency range of 30 MHz ~ 1 GHz. Except this, 3 m method is applied to Class B equipment over the frequency range of 30 MHz ~ 1 GHz and Class A and Class B equipment above 1 GHz.

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range	Limits(dB(μ V))		Class
	Quasi-peak	Average	
0.15 MHz ~ 0.5 MHz	79	66	Class A
0.5 MHz ~ 30 MHz	73	60	
0.15 MHz ~ 0.5 MHz	66 to 56	56 to 46	Class B
0.5 MHz ~ 5 MHz	56	46	
5 MHz ~ 30 MHz	60	50	

Note : The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

-Radiated Emission Limits below 1 GHz

Frequency Range	Limits(dB(μ V/m))	Class
	Quasi-peak	
30 MHz ~ 230 MHz	40	Class A (10m method)
230 MHz ~ 1 GHz	47	
30 MHz ~ 230 MHz	40.5	Class B (3m method)
230 MHz ~ 1 GHz	47.5	

-Radiated Emission Limits above 1 GHz (3m method)

Frequency Range	Limits(dB(μ V/m))		Class
	Average	Peak	
Above 1 GHz	59.5	79.5	Class A
Above 1 GHz	54	74	Class B

2.3 Conducted Emission

The initial preliminary exploratory scans were performed over the measuring frequency range(0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the software of EMC32(Version V9.12.00 from R&S). The final test data was measured using a Quasi-Peak detector and Average detector.

2.3.1 Test Equipments

Description	Model No.	Manufacturer	S/N	Last Cal. Date
Two-Line V-Network	ENV216	R & S	100190	2014.01.02
Artificial Mains Networks	ESH2-Z5	R & S	100280	2014.04.04
Test Receiver	ESCI 7	R & S	100911	2014.01.07

Note : The calibration period of every equipment is 1 year.

2.3.2 Test Site

Shield Room in Gunpo Laboratory

2.3.3 Environment Conditions

Temperature : 23.2 ~ 23.7
Humidity : 33.4 %R.H. ~ 35.0 %R.H.
Atmospheric Pressure : 101.2 kPa

Test Date : April 16, 2014

- USB Communication Mode

Freq. (MHz)	Line (H/N)	Level (dB μ V)		CL (dB)	LISN (dB)	Result (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q/P	A/V			Q/P	A/V	Q/P	A/V	Q/P	A/V
0.33	H	31.70	28.00	0.00	9.70	41.40	37.70	59.47	49.47	18.07	11.77
0.35	H	30.70	26.20	0.00	9.70	40.40	35.90	58.94	48.94	18.54	13.04
0.52	N	42.30	31.80	0.00	9.80	52.10	41.60	56.00	46.00	3.90	4.40
0.68	N	31.30	25.90	0.00	9.80	41.10	35.70	56.00	46.00	14.90	10.30
0.70	H	30.40	25.50	0.00	9.70	40.10	35.20	56.00	46.00	15.90	10.80
18.00	N	33.99	28.29	0.15	9.86	44.00	38.30	60.00	50.00	16.00	11.70

- Slim Port Mode

Freq. (MHz)	Line (H/N)	Level (dB μ V)		CL (dB)	LISN (dB)	Result (dB μ V)		Limit (dB μ V)		Margin (dB)	
		Q/P	A/V			Q/P	A/V	Q/P	A/V	Q/P	A/V
3.10	N	37.86	20.66	0.04	9.70	47.60	30.40	56.00	46.00	8.40	15.60
6.85	H	40.81	30.71	0.08	9.51	50.40	40.30	60.00	50.00	9.60	9.70
7.10	N	43.82	28.92	0.08	9.60	53.50	38.60	60.00	50.00	6.50	11.40
7.24	H	41.92	31.12	0.08	9.50	51.50	40.70	60.00	50.00	8.50	9.30
7.46	N	45.02	30.12	0.08	9.60	54.70	39.80	60.00	50.00	5.30	10.20
7.68	N	45.01	29.51	0.09	9.60	54.70	39.20	60.00	50.00	5.30	10.80

Measurement Uncertainty : ± 3.24 dB (The confidential level is about 95%, $k=2$)

Note : • Line (H) : Hot
• CL : Cable Loss
• Result = Level + CL + LISN
• Line (N) : Neutral
• LISN : LISN Factor
• Margin = Limit – Result

See Appendix A (Conducted Emission)

2.4 Radiated Emission

The initial preliminary exploratory scans were performed at 3 m distance over the measuring frequency range(30 MHz to 13 GHz) using a max hold mode incorporating a Peak detector and using the software of EP5RE(Version Ver3.10.20 from TOYO). The final test data was measured using a Quasi-Peak detector below 1 GHz at 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

2.4.1 Test Equipments

Description	Model No.	Manufacturer	S/N	Last Cal. Date
Horn Antenna	HF906	R & S	100326	2013.04.10
Signal Conditioning Unit	SCU 18	R & S	1391123	2013.09.30
Bilog Antenna	VULB9163	SCHWARZBEC K MESS- ELEKTRONIK	396	2012.06.04
Test Receiver	ESU26	R & S	100109	2013.05.30
Amplifier	8447F	HP	2944A03909	2013.06.28

Note : Only the calibration period of Antennas is 2 years but the period of every equipment is 1 year.

2.4.2 Test Site

3 m Semi-Anechoic Chamber in Gunpo Laboratory

2.4.3 Environment Conditions

Below 1 GHz (3 m method)

Temperature : 21.6 ~ 22.4

Humidity : 35.0 %R.H. ~ 36.0 %R.H.

Atmospheric Pressure : 101.1 kPa

Test Date : April 17, 2014

- Camera Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
47.66	31.10	H	16.8	2.00	15.50	0.86	27.61	19.85	40.50	20.65
81.37	41.20	V	174.5	1.10	8.76	1.14	27.54	23.56	40.50	16.94
181.40	40.10	V	94.0	2.00	10.08	1.70	27.17	24.71	40.50	15.79
317.61	33.90	V	144.9	1.40	14.65	2.24	27.01	23.78	47.50	23.72
664.62	34.20	V	81.9	2.00	20.66	3.30	28.34	29.82	47.50	17.68
968.11	34.00	H	189.3	4.00	23.83	4.07	27.53	34.37	47.50	13.13

- CIF Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
44.71	33.10	V	76.0	4.00	15.61	0.83	27.63	21.91	40.50	18.59
76.88	41.70	V	360.0	1.00	8.79	1.11	27.55	24.05	40.50	16.45
81.37	42.90	V	228.9	1.00	8.76	1.14	27.54	25.26	40.50	15.24
134.19	38.00	V	7.5	1.00	8.76	1.45	27.36	20.85	40.50	19.65
181.40	42.00	V	28.5	2.00	10.08	1.70	27.17	26.61	40.50	13.89
433.92	37.20	H	179.2	1.00	17.26	2.62	27.90	29.18	47.50	18.32

- MP3 Player Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
50.21	32.20	H	146.2	1.00	15.36	0.88	27.60	20.84	40.50	19.66
100.20	30.70	H	210.4	4.00	12.75	1.25	27.50	17.20	40.50	23.30
605.57	32.70	H	224.9	4.00	20.37	3.21	28.39	27.89	47.50	19.61
642.88	33.00	H	16.4	2.00	20.55	3.24	28.36	28.43	47.50	19.07
901.46	33.60	H	162.4	2.00	23.37	3.91	27.79	33.09	47.50	14.41
989.82	34.00	V	303.9	3.00	23.98	4.12	27.44	34.66	47.50	12.84

- FM Radio Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
46.73	32.70	H	197.6	3.00	15.55	0.85	27.62	21.48	40.50	19.02
181.36	36.20	H	127.4	1.00	10.08	1.70	27.17	20.81	40.50	19.69
257.18	33.00	H	358.4	4.00	13.56	2.01	26.99	21.58	47.50	25.92
510.07	33.10	H	161.1	3.00	18.65	2.86	28.22	26.39	47.50	21.11
695.06	34.00	H	96.9	3.00	20.81	3.34	28.30	29.85	47.50	17.65
944.59	34.20	V	62.6	3.00	23.67	3.92	27.62	34.17	47.50	13.33

- USB Communication Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
34.59	36.80	V	220.0	1.10	13.88	0.73	27.68	23.73	40.50	16.77
61.77	42.40	V	135.0	1.20	13.15	0.99	27.58	28.96	40.50	11.54
87.59	48.20	V	360.0	1.10	11.11	1.18	27.52	32.97	40.50	7.53
268.44	43.40	H	258.0	1.40	13.73	2.05	26.96	32.22	47.50	15.28
302.50	41.40	H	265.0	1.10	14.28	2.19	26.92	30.96	47.50	16.55
400.70	43.30	H	120.0	4.00	16.65	2.56	27.70	34.81	47.50	12.69

- Slim Port Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
41.96	44.10	V	6.2	1.00	15.41	0.80	27.64	32.67	40.50	7.83
100.45	40.10	V	12.0	1.00	12.71	1.25	27.50	26.56	40.50	13.94
148.50	48.00	H	8.8	2.00	8.87	1.53	27.31	31.09	40.50	9.41
297.03	46.20	H	10.5	1.00	14.17	2.17	26.91	35.63	47.50	11.87
445.52	43.90	H	9.7	1.00	17.47	2.66	27.97	36.06	47.50	11.44
742.55	40.50	V	8.5	1.00	21.23	3.43	28.21	36.95	47.50	10.55

Measurement Uncertainty (Horizontal) : ± 5.56 dB (The confidential level is about 95%, $k=2$)

Measurement Uncertainty (Vertical) : ± 5.92 dB (The confidential level is about 95%, $k=2$)

Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
 • Pol.(H) = Horizontal • Pol.(V) = Vertical • Amp. = Amplifier Gain
 • Margin = Limit – F/S • F/S = Level + AF + CL – Amp.
 • A : Angle • H : Height

Above 1 GHz (3 m method)

Temperature : 23.4 ~ 24.2

Humidity : 33.0 %R.H. ~ 34.0 %R.H.

Atmospheric Pressure : 101.1 kPa

Test Date : April 17, 2014

- Camera Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
3275.83	46.2	V	359.2	2.00	30.65	7.75	36.80	47.80	74.00	26.20
3544.38	47.5	V	270.3	1.00	31.44	8.07	36.80	50.21	74.00	23.79
Average Detector										
3275.83	33.6	V	359.2	2.00	30.65	7.75	36.80	35.20	54.00	18.80
3544.38	32.1	V	270.3	1.00	31.44	8.07	36.80	34.81	54.00	19.19

- CIF Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
3434.17	46.3	V	125.6	1.00	31.14	7.42	36.80	48.06	74.00	25.94
3577.50	45.1	V	60.7	1.00	31.51	7.80	36.80	47.61	74.00	26.39
Average Detector										
3434.17	30.6	V	125.6	1.00	31.14	7.42	36.80	32.36	54.00	21.64
3577.50	31.5	V	60.7	1.00	31.51	7.80	36.80	34.01	54.00	19.99

- MP3 Player Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
2880.21	45.9	V	145.3	2.00	29.48	7.35	36.74	45.99	74.00	28.01
3585.00	48.0	V	145.3	2.00	31.52	7.86	36.80	50.58	74.00	23.42
Average Detector										
2880.21	30.6	V	145.3	2.00	29.48	7.35	36.74	30.69	54.00	23.31
3585.00	31.2	V	145.3	2.00	31.52	7.86	36.80	33.78	54.00	20.22

- FM Radio Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
3373.54	47.2	H	100.9	1.00	30.95	7.69	36.80	49.04	74.00	24.96
3521.04	46.8	H	160.5	1.00	31.39	7.99	36.80	49.38	74.00	24.62
Average Detector										
3373.54	33.5	H	100.9	1.00	30.95	7.69	36.80	35.34	54.00	18.66
3521.04	36.2	H	160.5	1.00	31.39	7.99	36.80	38.78	54.00	15.22

- USB Communication Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
2996.46	47.1	V	144.5	2.00	29.79	7.17	36.80	47.26	74.00	26.74
3513.75	46.9	V	144.5	2.00	31.37	7.82	36.80	49.29	74.00	24.71
Average Detector										
2996.46	32.1	V	144.5	2.00	29.79	7.17	36.80	32.26	54.00	21.74
3513.75	33.6	V	144.5	2.00	31.37	7.82	36.80	35.99	54.00	18.01

- Slim Port Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
1336.46	52.7	V	157.7	1.00	24.65	4.67	36.73	45.29	74.00	28.71
1484.79	63.5	V	178.7	1.00	25.05	4.96	36.66	56.85	74.00	17.15
Average Detector										
1336.46	40.2	V	157.7	1.00	24.65	4.67	36.73	32.79	54.00	21.21
1484.79	47.8	V	178.7	1.00	25.05	4.96	36.66	41.15	54.00	12.85

Measurement Uncertainty (Horizontal) : ± 4.99 dB (The confidential level is about 95%, $k=2$)

Measurement Uncertainty (Vertical) : ± 4.99 dB (The confidential level is about 95%, $k=2$)

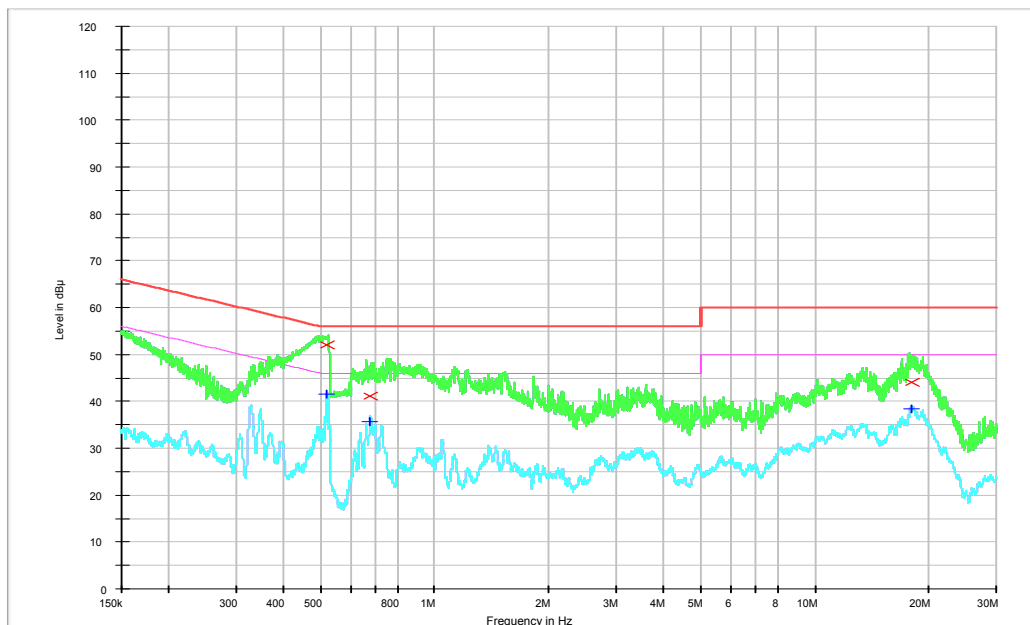
Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
 • Pol.(H) = Horizontal • Pol.(V) = Vertical • Amp. = Amplifier Gain
 • Margin = Limit – F/S • F/S = Level + AF + CL – Amp.
 • A : Angle • H : Height

See Appendix B (Radiated Emission)

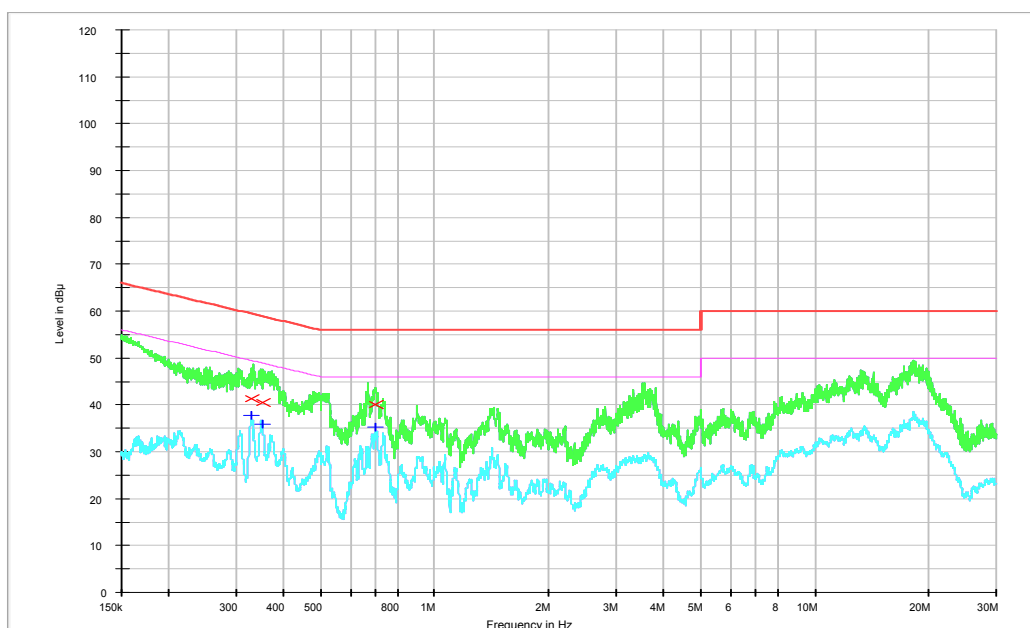
Appendix A : Conducted Emission

- USB Communication Mode

Neutral

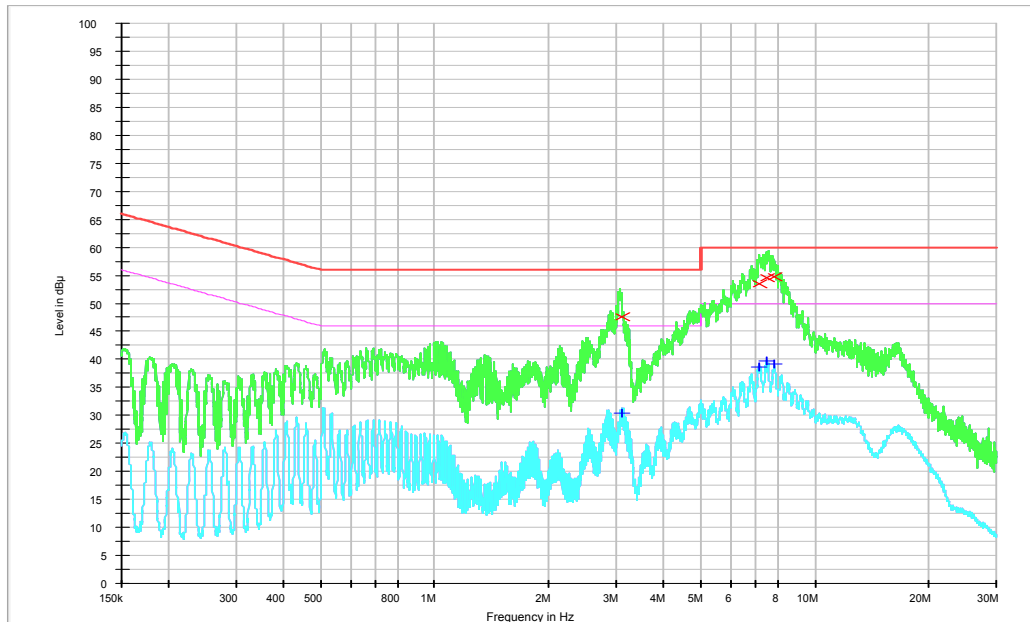


Hot

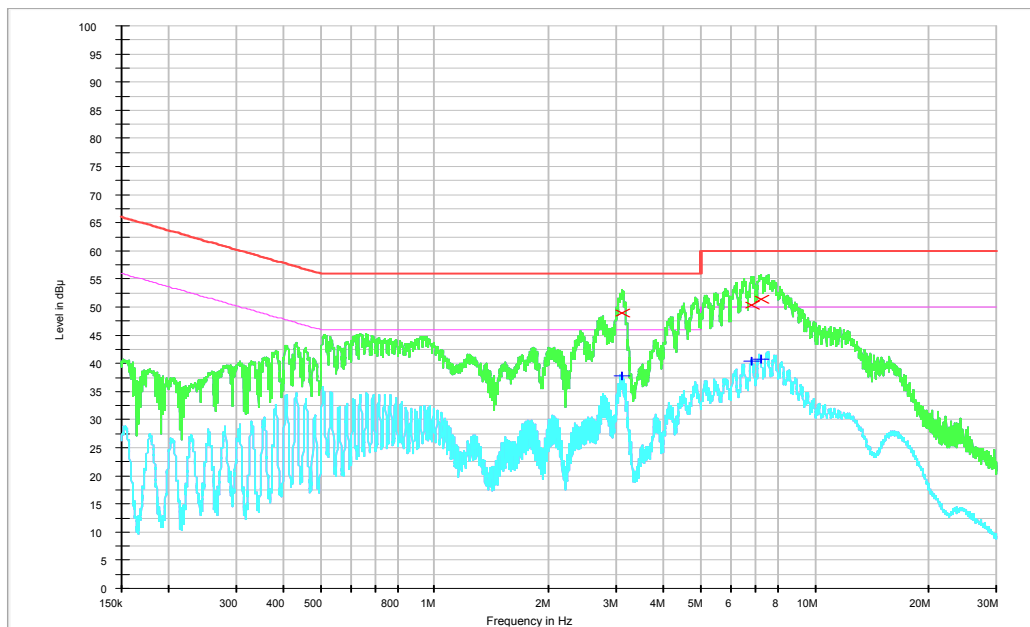


- Slim Port Mode

Neutral



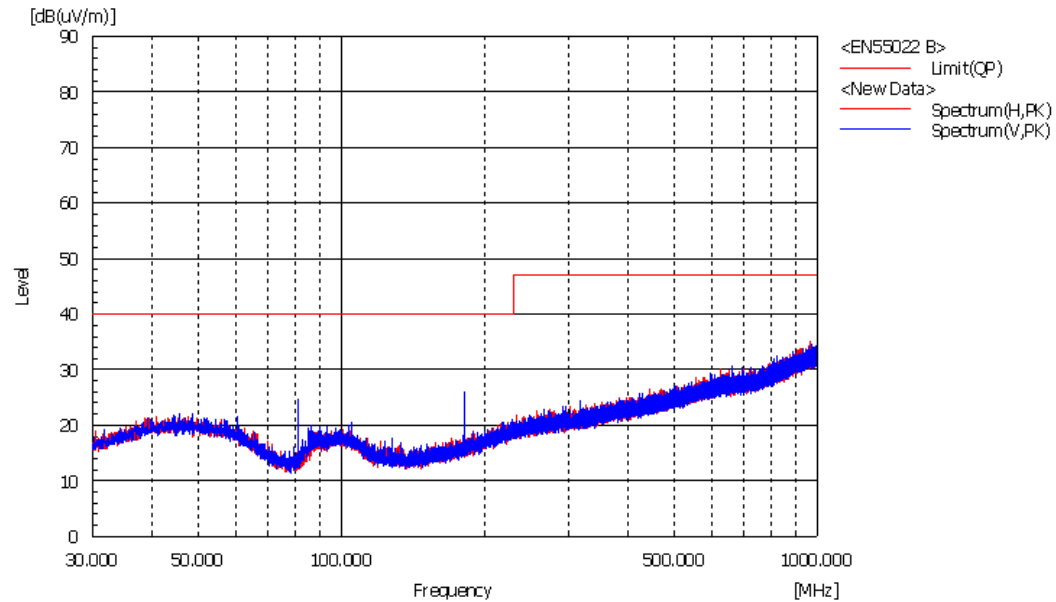
Hot



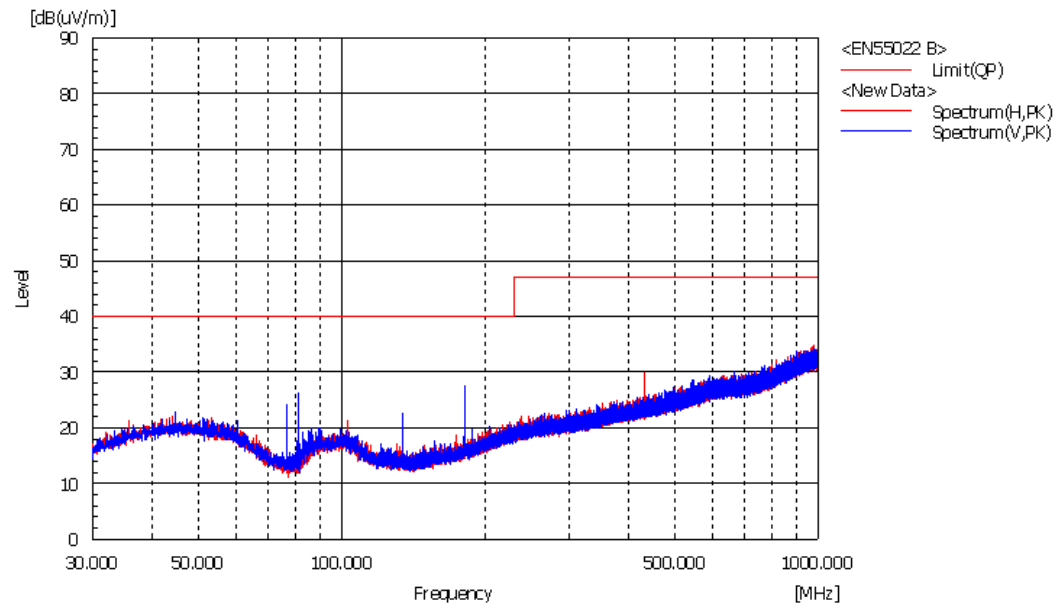
Appendix B : Radiated Emission (3 m Scan Data)

Below 1 GHz

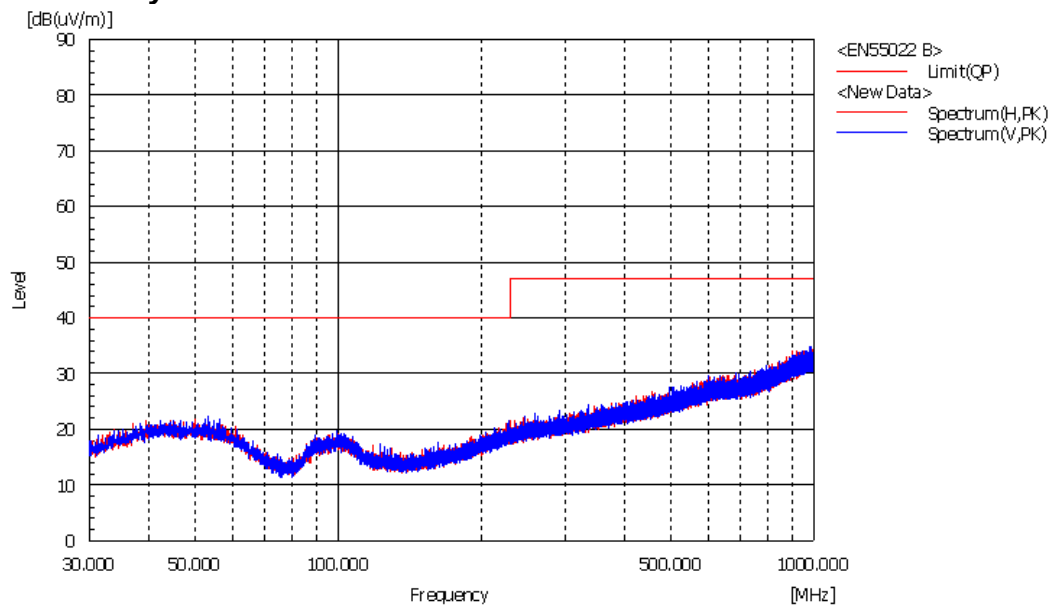
- Camera Mode



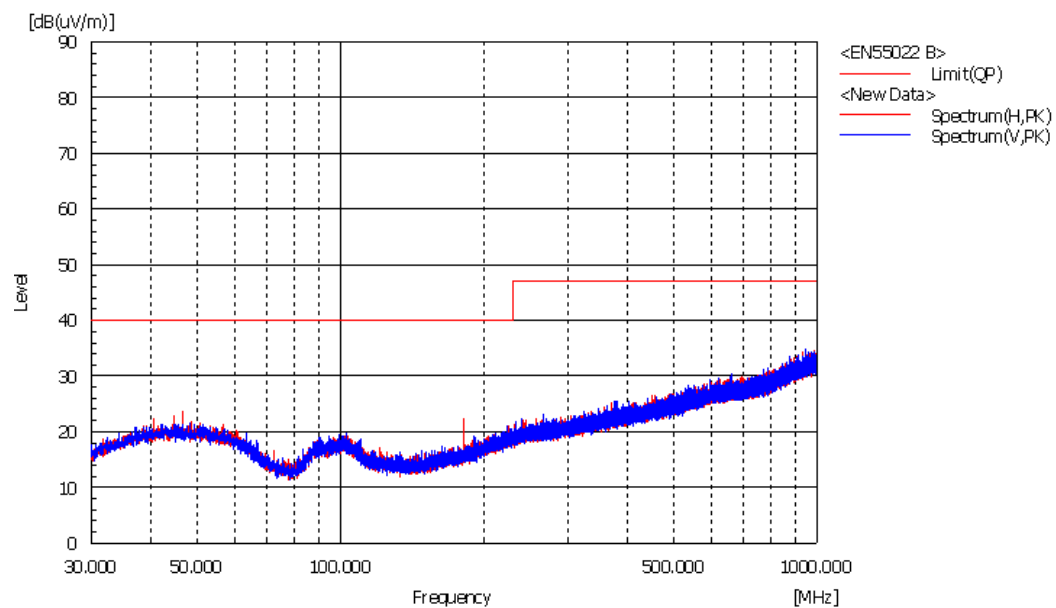
- CIF Mode



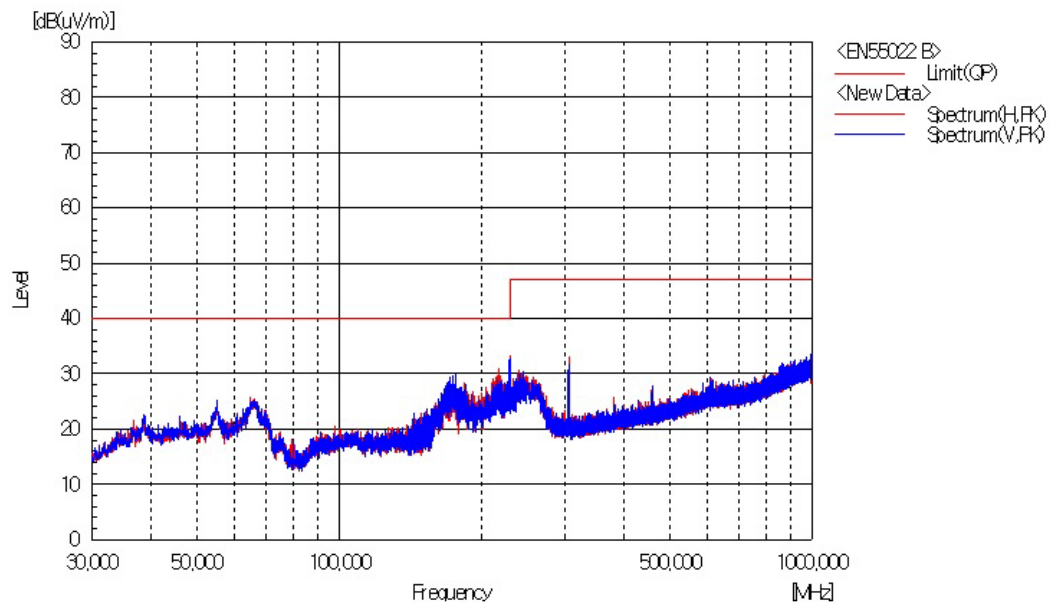
- MP3 Player Mode



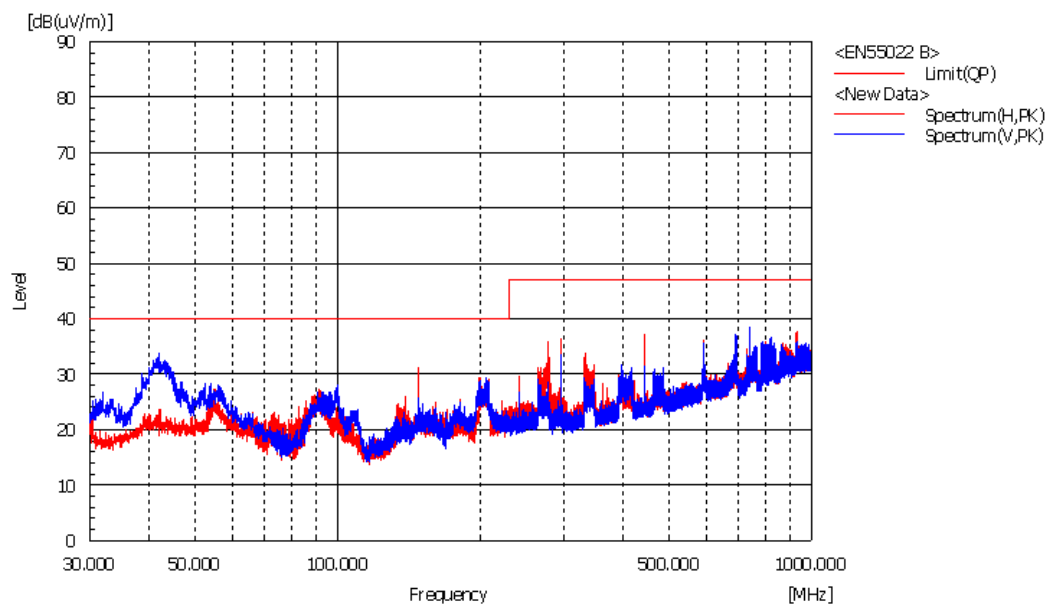
- FM Radio Mode



- USB Communication Mode



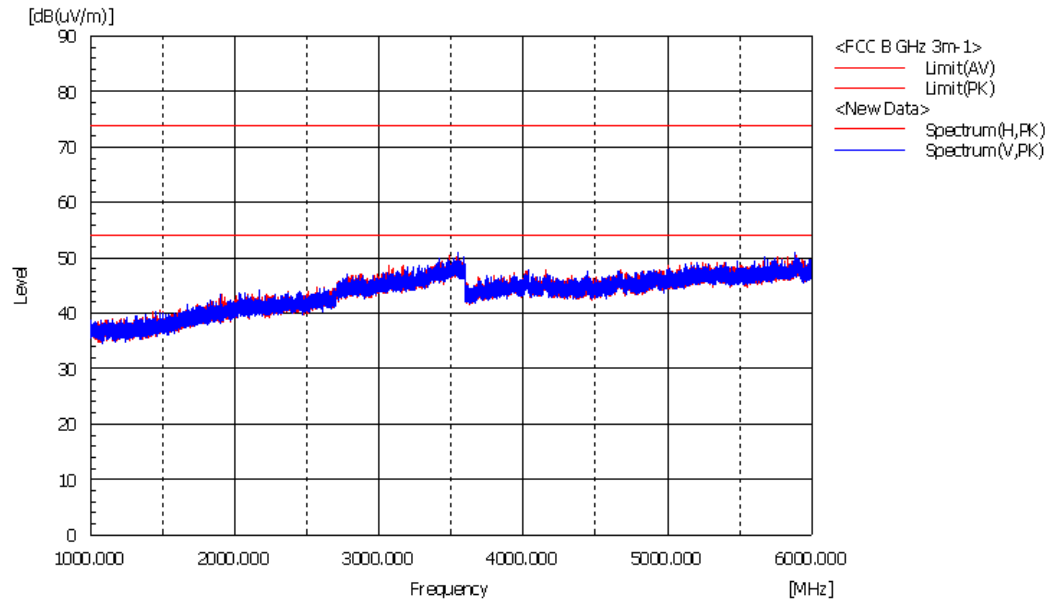
- Slim Port Mode



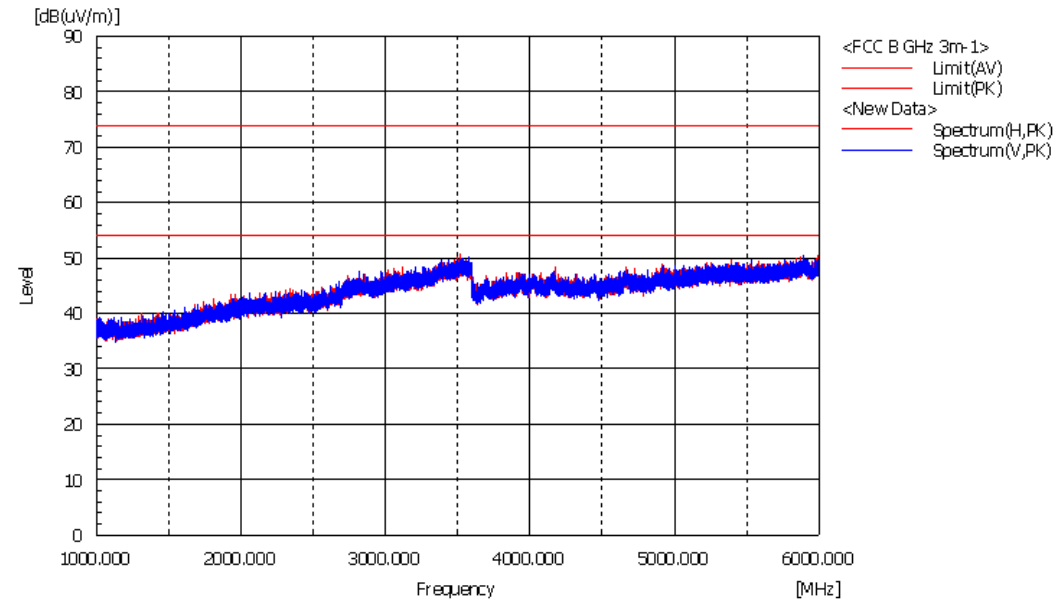
Above 1 GHz

(From 1 GHz ~ 6 GHz)

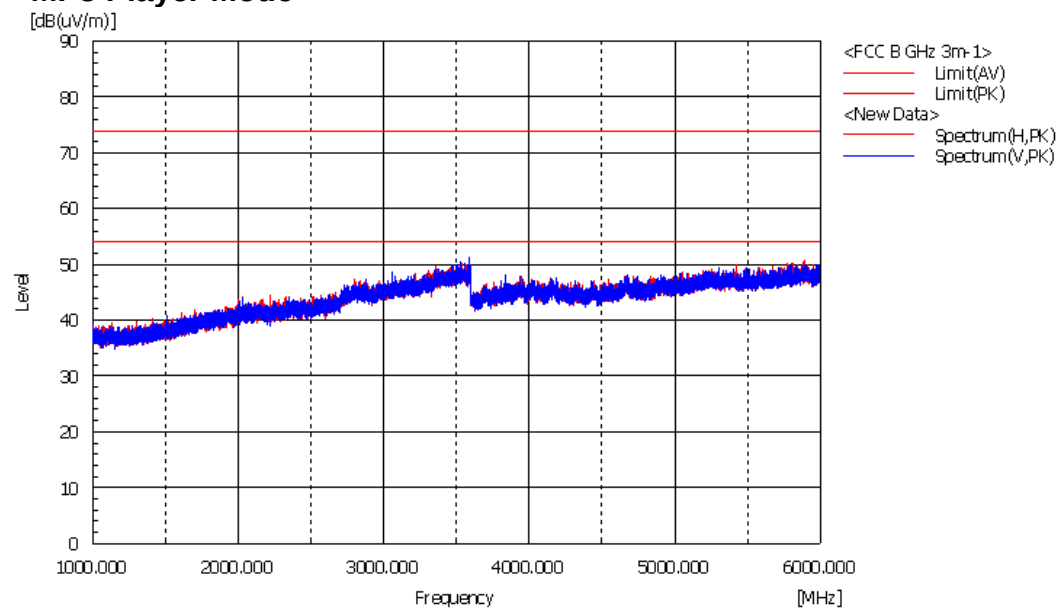
- Camera Mode



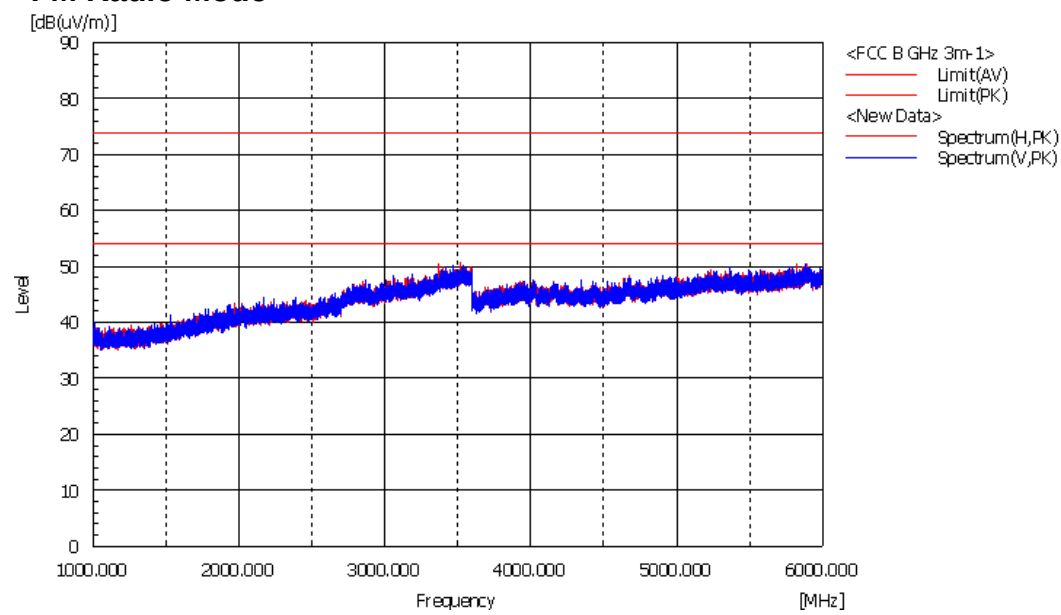
- CIF Mode



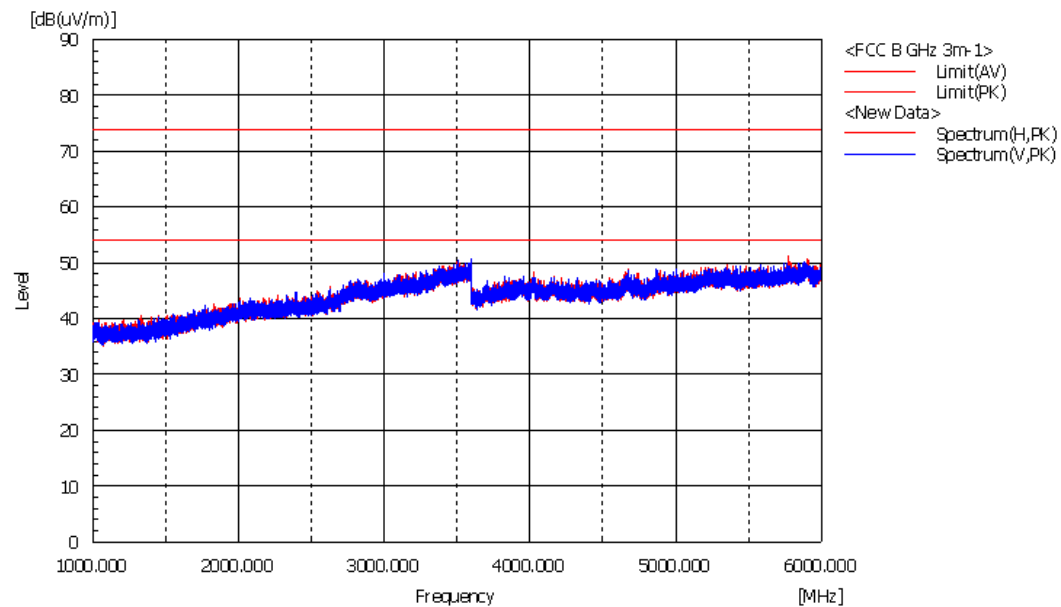
- MP3 Player Mode



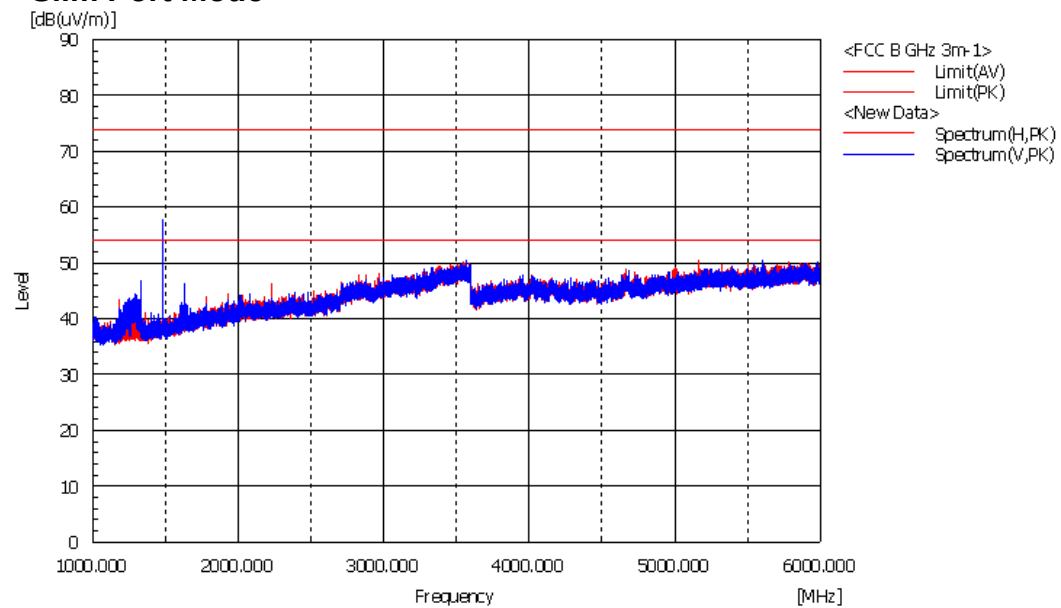
- FM Radio Mode



- USB Communication Mode

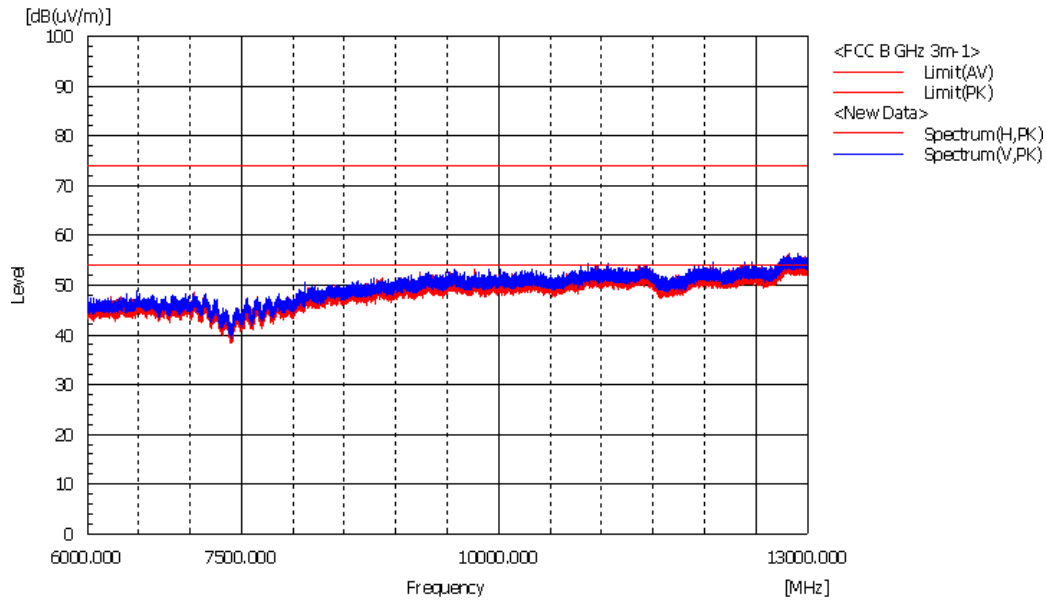


- Slim Port Mode

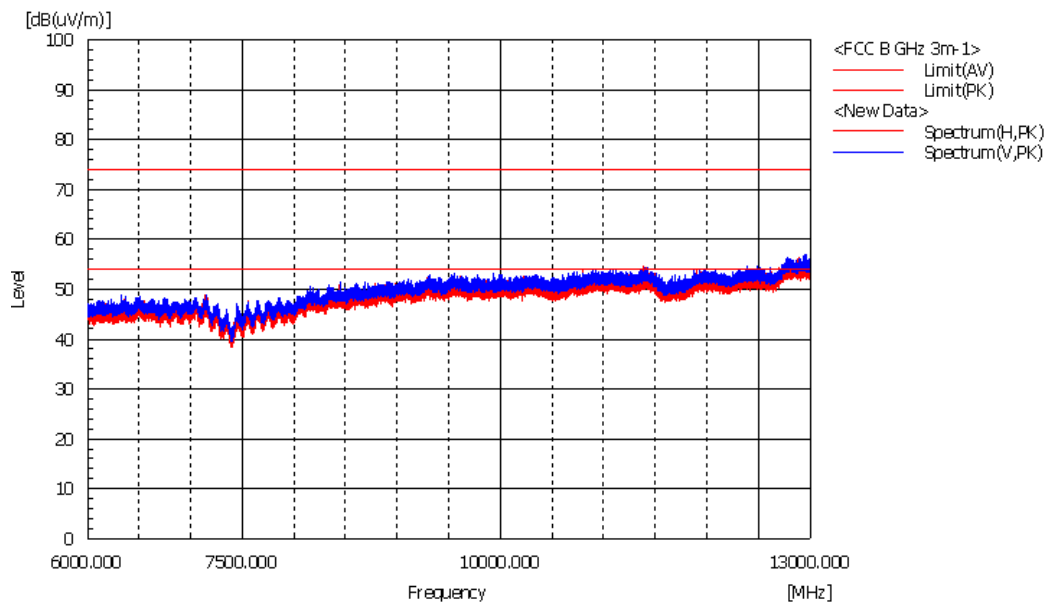


(From 6 GHz ~ 13 GHz)

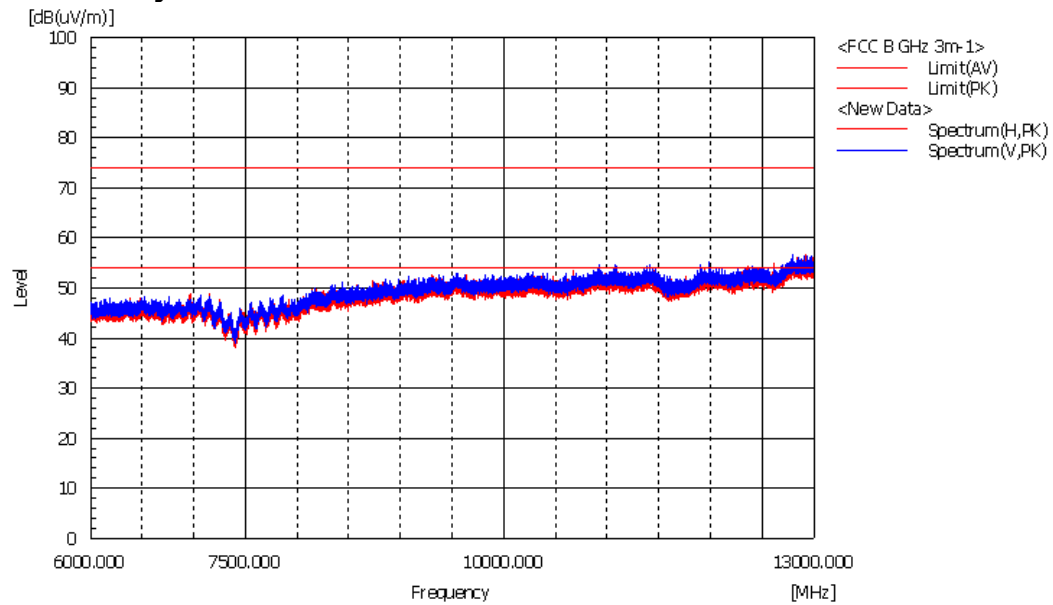
- Camera Mode



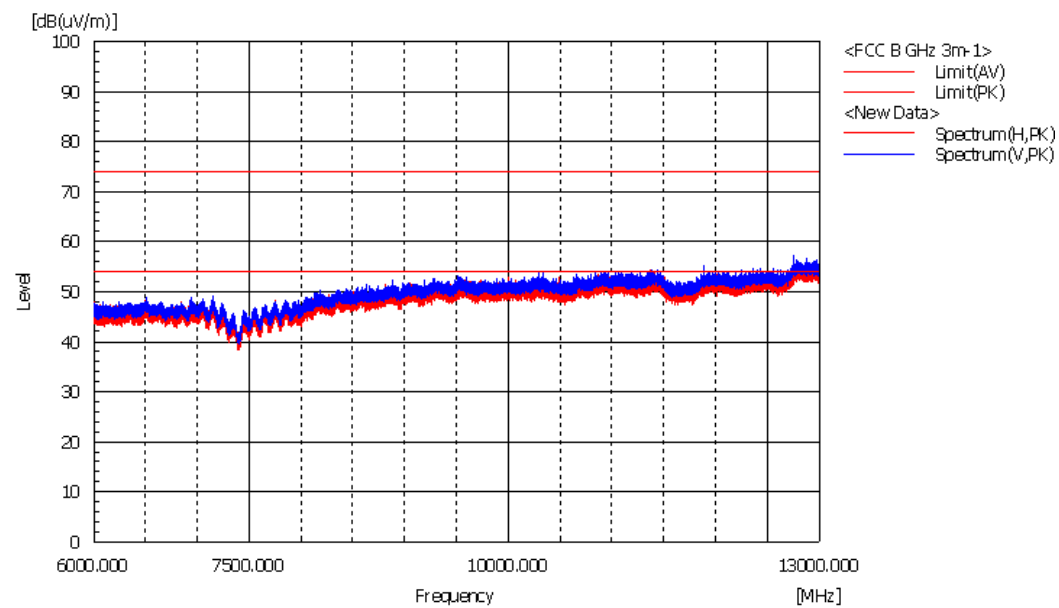
- CIF Mode



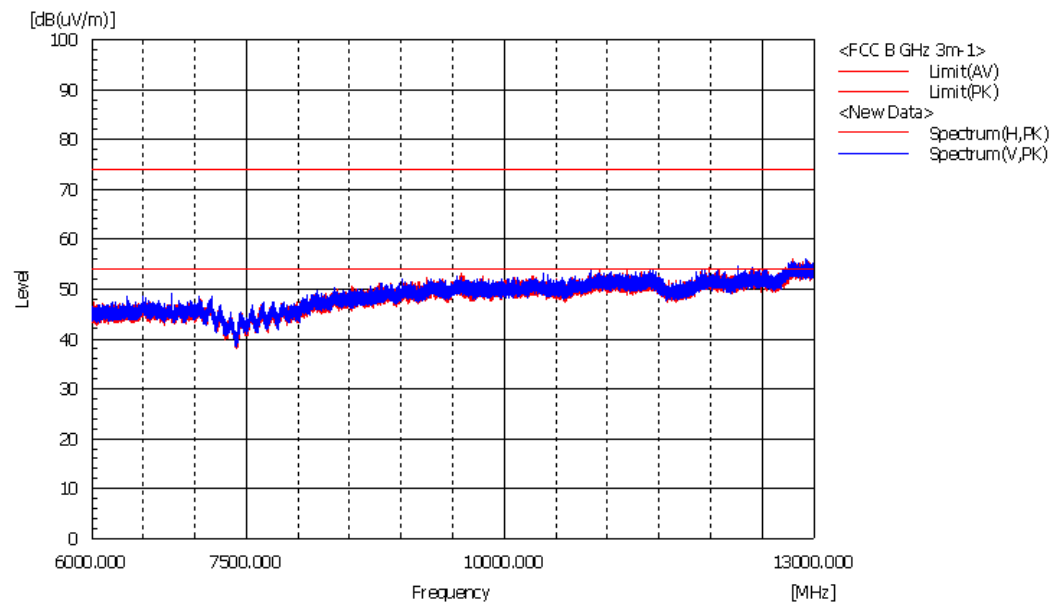
- MP3 Player Mode



- FM Radio Mode



- USB Communication Mode



- Slim Port Mode

