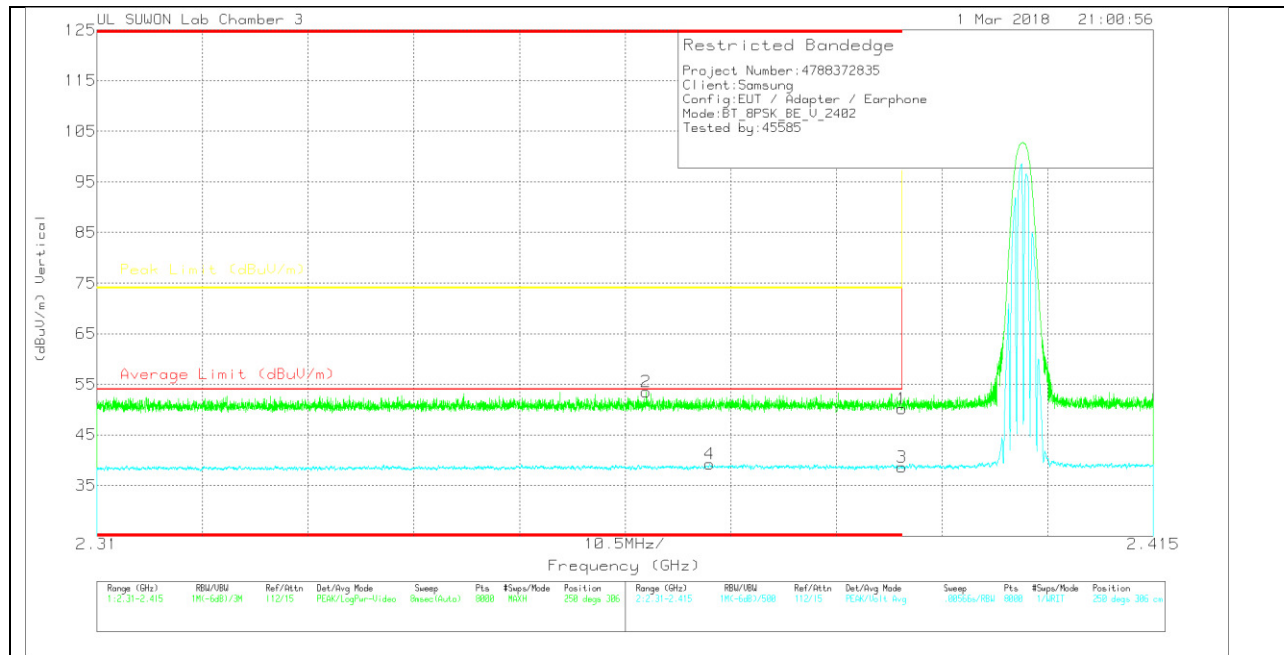


VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.7	Pk	31.8	-23.3	50.2	-	-	74	-23.8	250	306	V
2	* 2.365	45.06	Pk	31.7	-23.2	53.56	-	-	74	-20.44	250	306	V
3	* 2.39	30.08	VA1T	31.8	-23.3	38.58	54	-15.42	-	-	250	306	V
4	* 2.371	30.8	VA1T	31.7	-23.3	39.2	54	-14.8	-	-	250	306	V

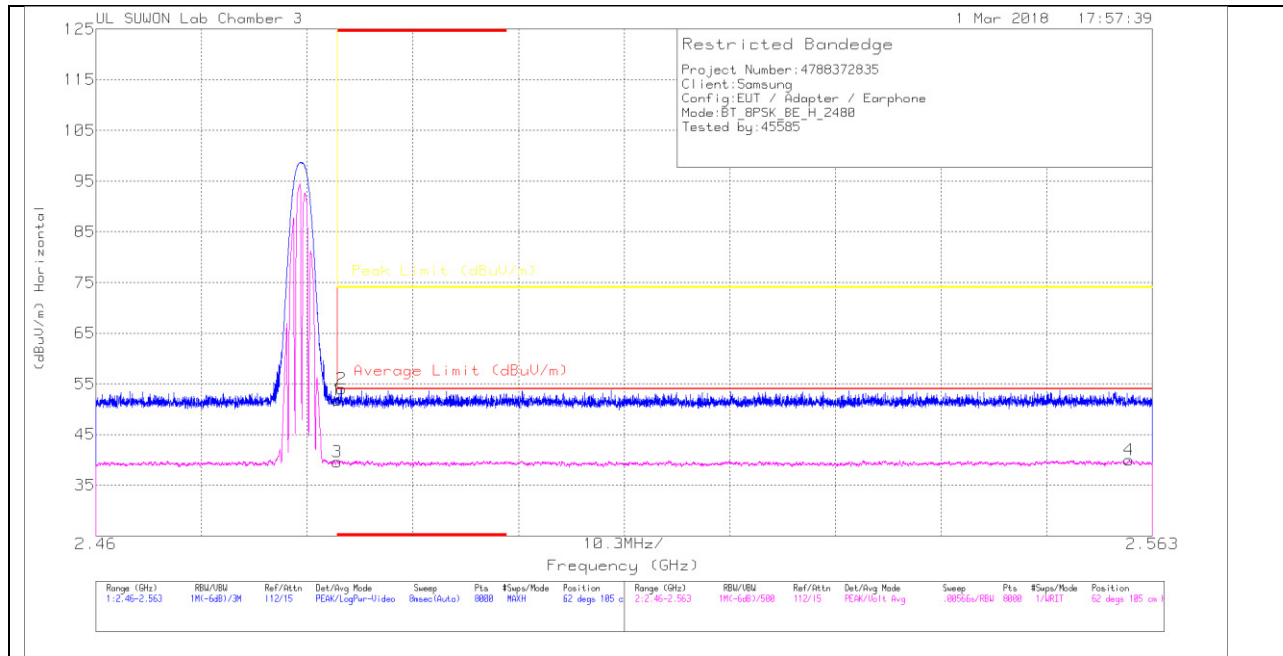
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

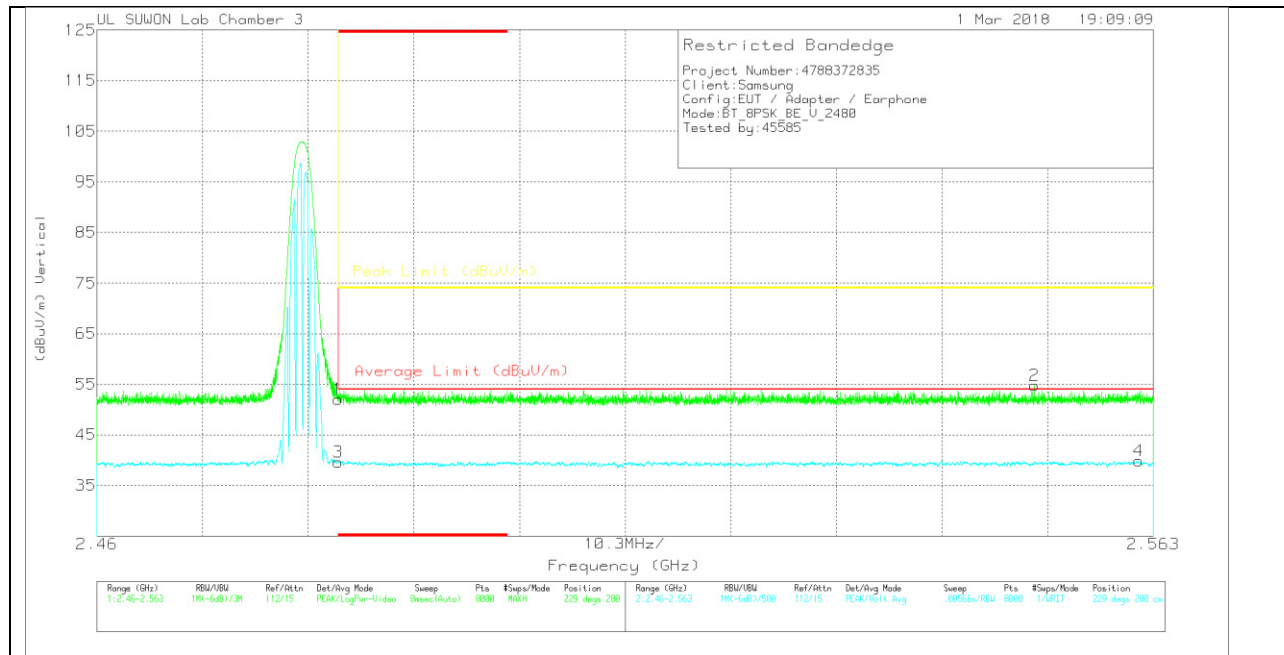
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.7	Pk	32.1	-23	51.8	-	-	74	-22.2	62	105	H
2	* 2.484	44.97	Pk	32.1	-23.1	53.97	-	-	74	-20.03	62	105	H
3	* 2.484	30.53	VA1T	32.1	-23	39.63	54	-14.37	-	-	62	105	H
4	2.561	30.79	VA1T	32.1	-22.9	39.99	54	-14.01	-	-	62	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.91	Pk	32.1	-23	52.01	-	-	74	-21.99	229	280	V
2	2.551	45.64	Pk	32.1	-23	54.74	-	-	74	-19.26	229	280	V
3	* 2.484	30.51	VA1T	32.1	-23	39.61	54	-14.39	-	-	229	280	V
4	2.562	30.68	VA1T	32.1	-22.9	39.88	54	-14.12	-	-	229	280	V

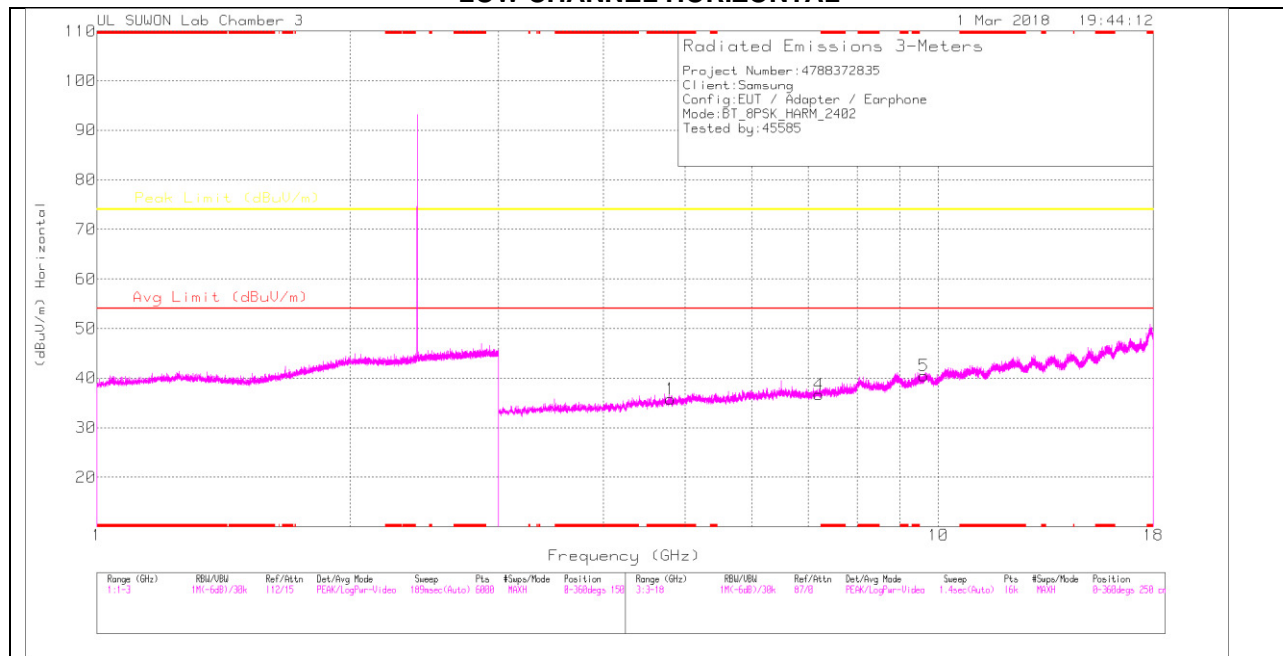
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

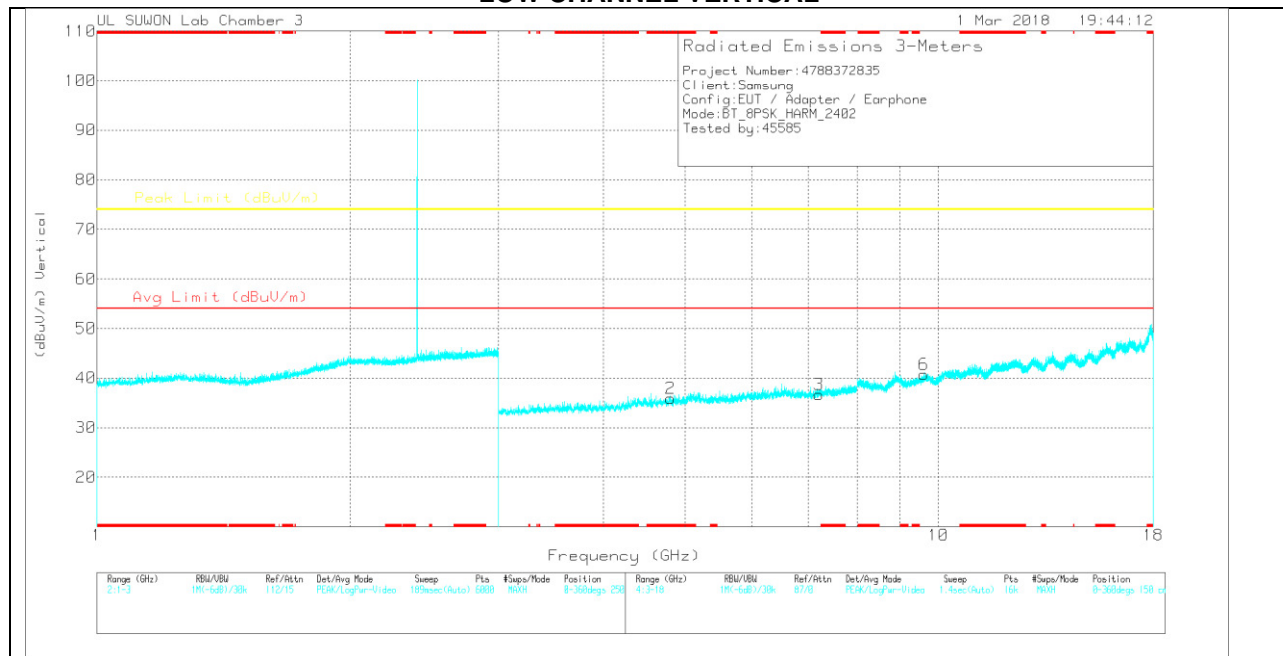
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

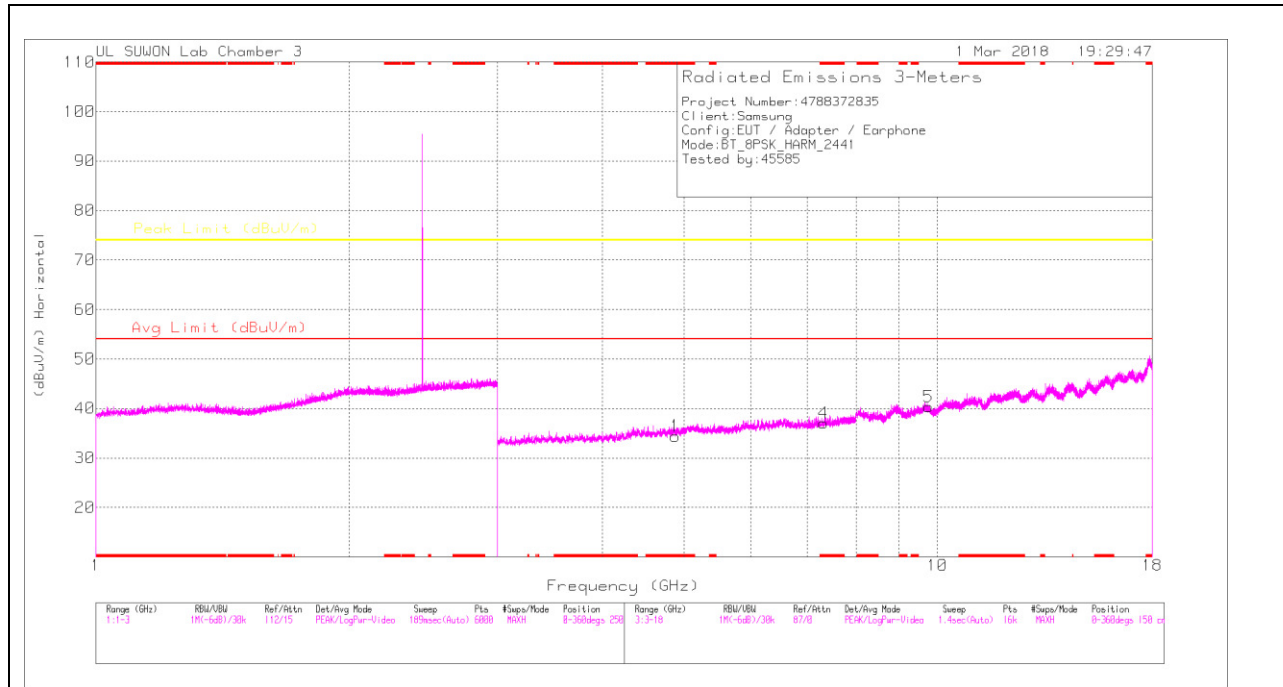
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	30.11	PK	33.9	-28.2	35.81	-	-	74	-38.19	0-360	250	H
4	7.207	25.06	PK	35.6	-24	36.66	-	-	74	-37.34	0-360	250	H
5	9.607	23.69	PK	36.7	-19.9	40.49	-	-	74	-33.51	0-360	150	H
2	* 4.805	30.19	PK	33.9	-28.2	35.89	-	-	74	-38.11	0-360	150	V
3	7.206	24.97	PK	35.6	-23.9	36.67	-	-	74	-37.33	0-360	150	V
6	9.61	23.92	PK	36.7	-19.9	40.72	-	-	74	-33.28	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

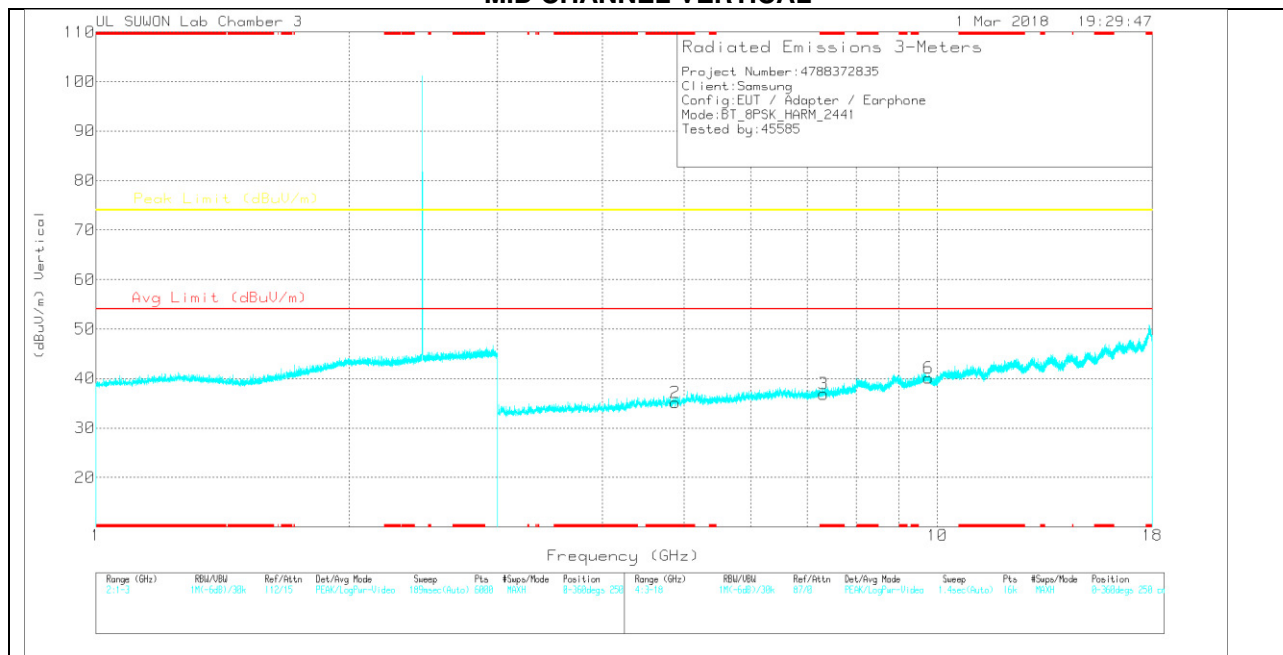
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

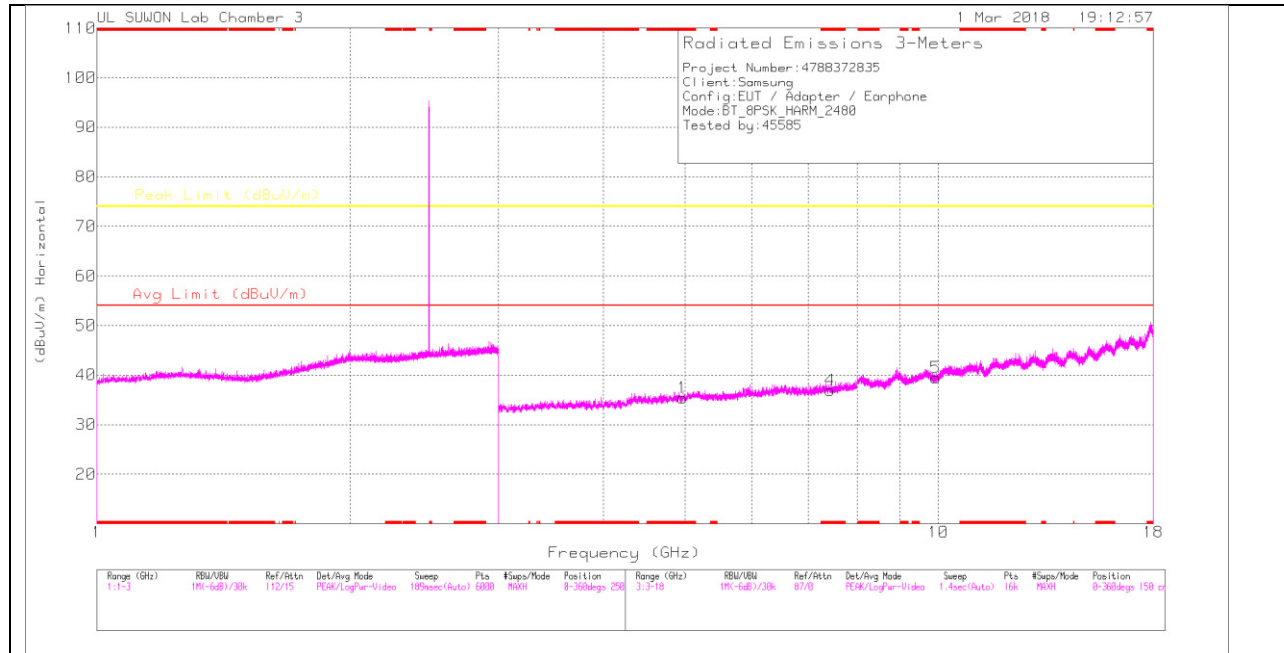
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.883	29.34	PK	34	-28.9	34.44	-	-	74	-39.56	0-360	150	H
4	* 7.323	24.83	PK	35.6	-23.4	37.03	-	-	74	-36.97	0-360	250	H
5	9.764	22.92	PK	36.9	-19.5	40.32	-	-	74	-33.68	0-360	250	H
2	* 4.883	30.1	PK	34	-28.9	35.2	-	-	74	-38.8	0-360	150	V
3	* 7.323	24.66	PK	35.6	-23.4	36.86	-	-	74	-37.14	0-360	250	V
6	9.764	22.64	PK	36.9	-19.5	40.04	-	-	74	-33.96	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

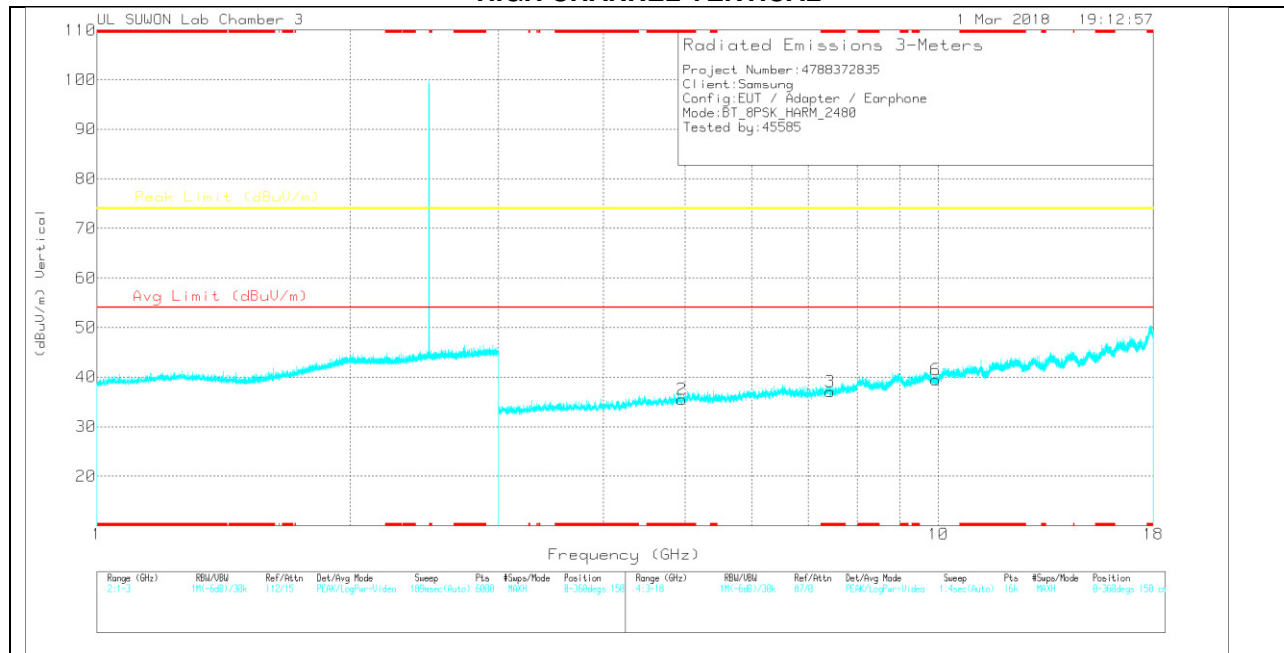
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.961	29.75	PK	34.1	-28.5	35.35	-	-	74	-38.65	0-360	250	H
4	* 7.44	24.52	PK	35.6	-23.2	36.92	-	-	74	-37.08	0-360	150	H
5	9.921	22.14	PK	37	-19.7	39.44	-	-	74	-34.56	0-360	150	H
2	* 4.959	29.89	PK	34.1	-28.5	35.49	-	-	74	-38.51	0-360	250	V
3	* 7.44	24.6	PK	35.6	-23.2	37	-	-	74	-37	0-360	250	V
6	9.92	22.13	PK	37	-19.7	39.43	-	-	74	-34.57	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

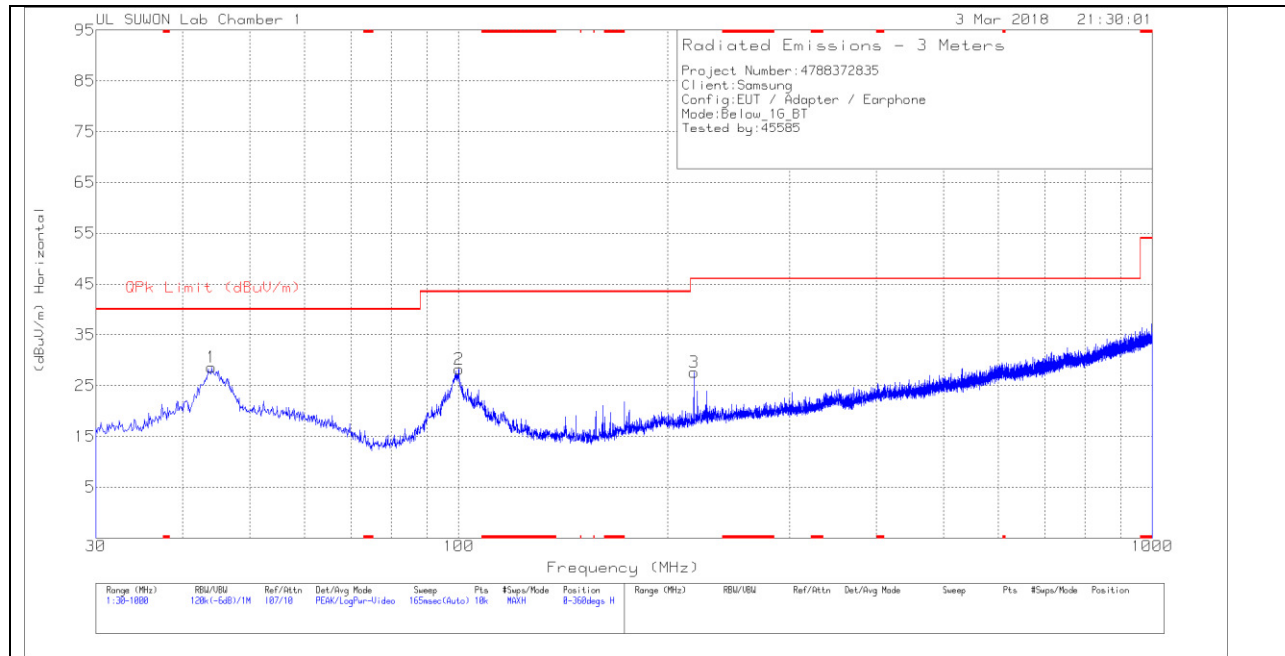
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

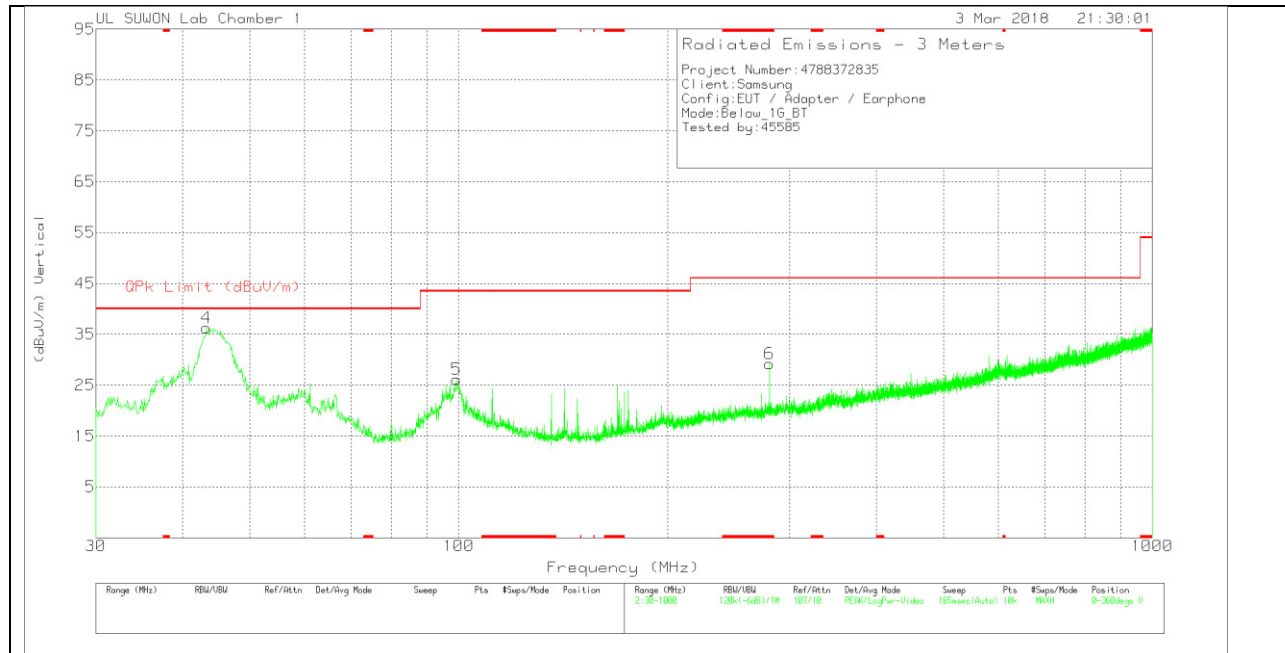
11.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	750_20170831	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	44.065	38.49	Pk	19.5	-29.4	28.59	40	-11.41	0-360	400	H
2	100.131	39.38	Pk	17.4	-28.5	28.28	43.52	-15.24	0-360	300	H
3	218.277	38.06	Pk	17.1	-27.5	27.66	46.02	-18.36	0-360	200	H
4	43.289	46.38	Pk	19.3	-29.4	36.28	40	-3.72	0-360	100	V
5	99.258	37.35	Pk	17.3	-28.5	26.15	43.52	-17.37	0-360	100	V
6	* 280.551	37.56	Pk	18.8	-27.1	29.26	46.02	-16.76	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

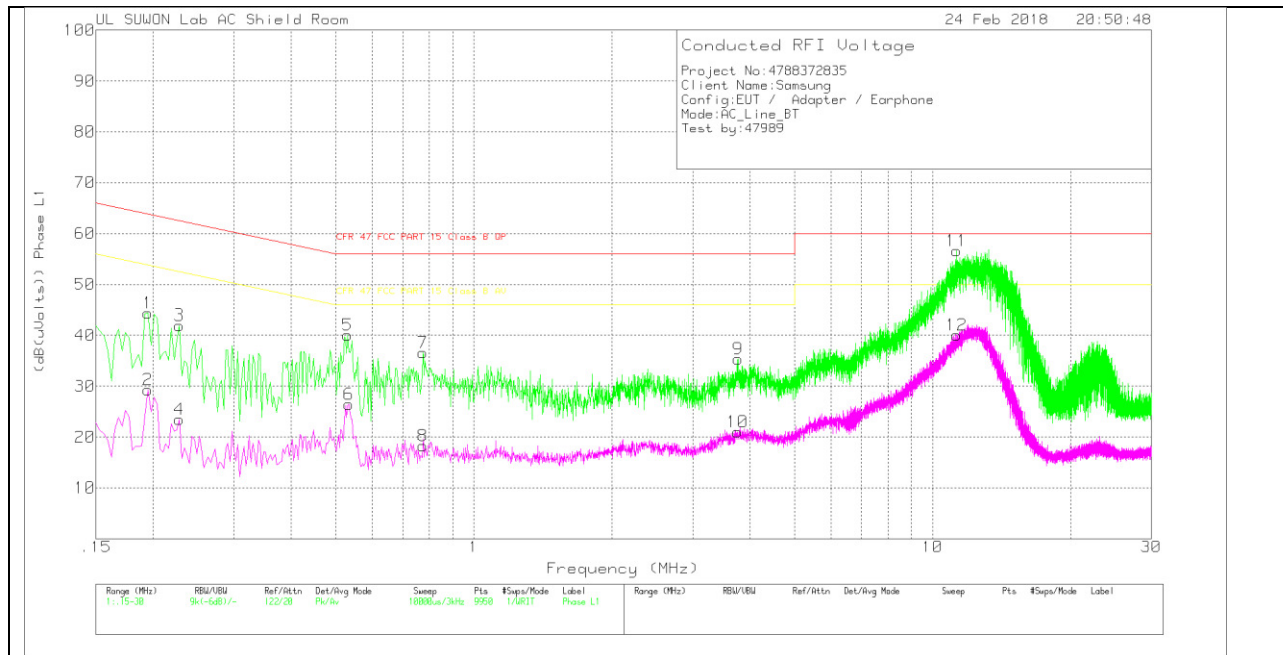
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.195	34.33	Pk	9.8	.2	44.33	63.82	-19.49	-	-
2	.195	19.3	Av	9.8	.2	29.3	-	-	53.82	-24.52
3	.228	32.16	Pk	9.6	.2	41.96	62.52	-20.56	-	-
4	.228	13.68	Av	9.6	.2	23.48	-	-	52.52	-29.04
5	.531	30.18	Pk	9.7	.2	40.08	56	-15.92	-	-
6	.534	16.5	Av	9.7	.2	26.4	-	-	46	-19.6
7	.774	26.72	Pk	9.7	.2	36.62	56	-19.38	-	-
8	.774	8.41	Av	9.7	.2	18.31	-	-	46	-27.69
9	3.774	25.25	Pk	9.8	.3	35.35	56	-20.65	-	-
10	3.762	10.87	Av	9.8	.3	20.97	-	-	46	-25.03
11	11.298	46.55	Pk	9.8	.3	56.65	60	-3.35	-	-
12	11.283	29.9	Av	9.8	.3	40	-	-	50	-10

Pk - Peak detector

Av - Average detection

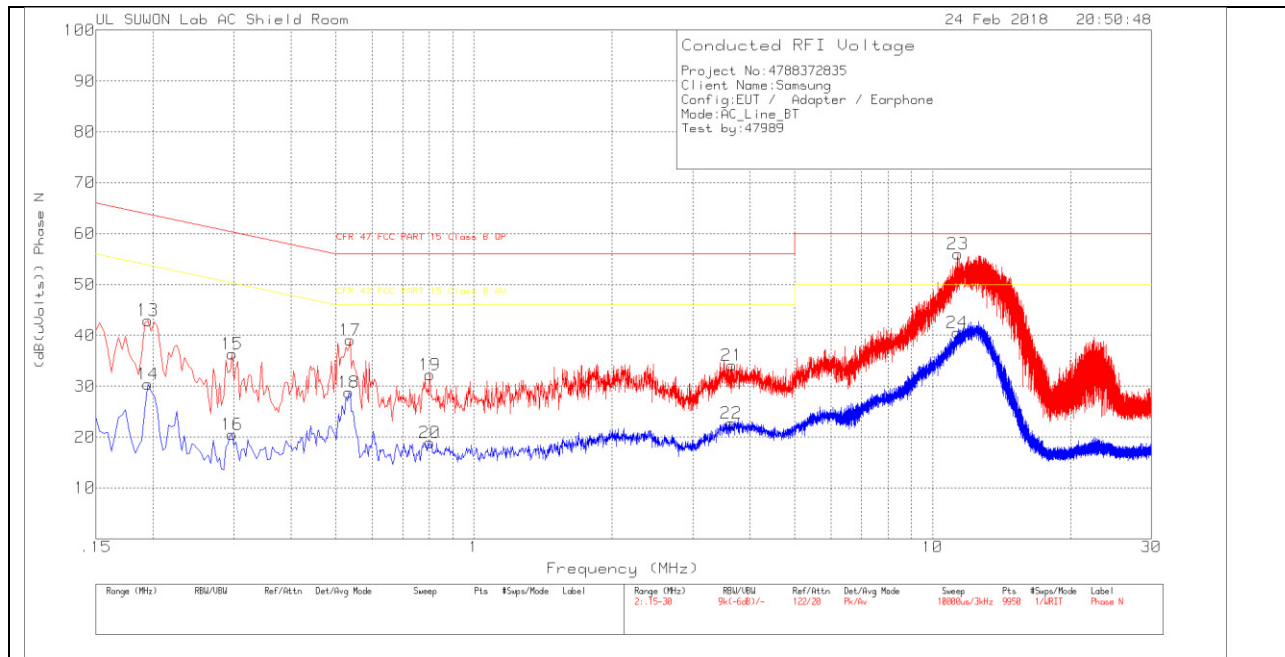
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
11.2988	38.39	Qp	9.8	.3	48.49	60	-11.51	-	-

Qp - Quasi-Peak detector

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.195	32.85	Pk	9.9	.2	42.95	63.82	-20.87	-	-
14	.195	20.26	Av	9.9	.2	30.36	-	-	53.82	-23.46
15	.297	26.49	Pk	9.7	.2	36.39	60.33	-23.94	-	-
16	.297	10.56	Av	9.7	.2	20.46	-	-	50.33	-29.87
17	.537	29.1	Pk	9.8	.2	39.1	56	-16.9	-	-
18	.534	18.81	Av	9.8	.2	28.81	-	-	46	-17.19
19	.801	22.31	Pk	9.7	.2	32.21	56	-23.79	-	-
20	.801	9.05	Av	9.7	.2	18.95	-	-	46	-27.05
21	3.654	23.97	Pk	9.8	.3	34.07	56	-21.93	-	-
22	3.636	12.58	Av	9.8	.3	22.68	-	-	46	-23.32
23	11.355	45.88	Pk	9.8	.3	55.98	60	-4.02	-	-
24	11.334	30.49	Av	9.8	.3	40.59	-	-	50	-9.41

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
11.3558	38.12	Qp	9.8	.3	48.22	60	-11.78	-	-

Qp - Quasi-Peak detector