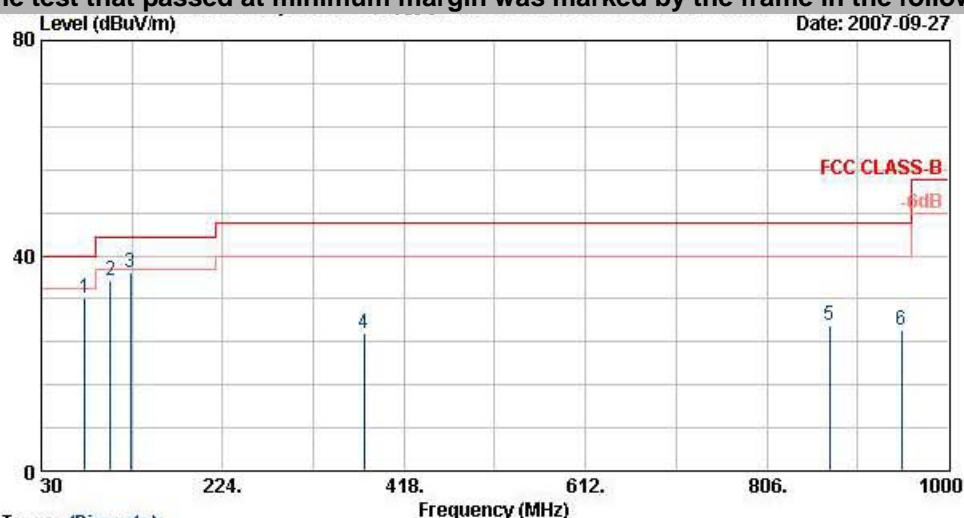




Test Mode : Mode 2

Polarization : Horizontal

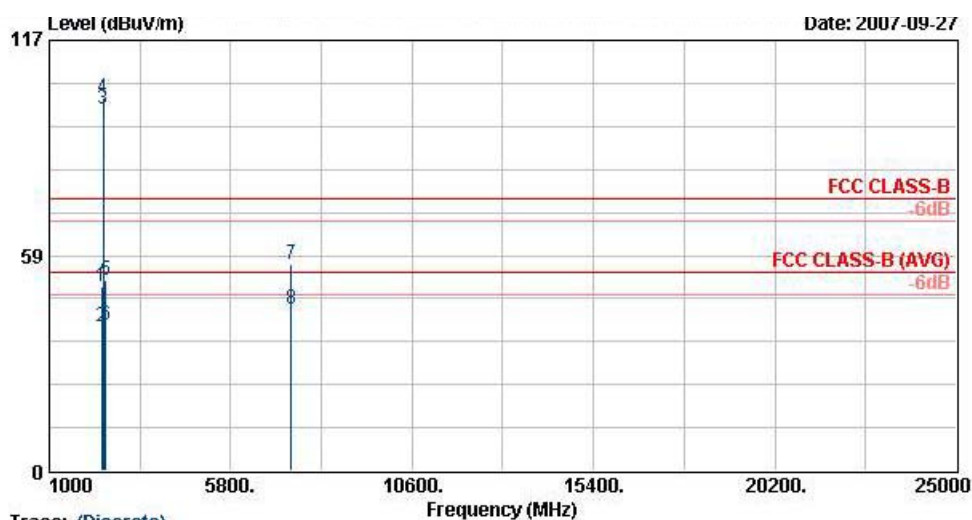
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_CH06,2437MHz  
 Data Rate : 1  
 Plane : E1

Plane	E1										
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	77.0	32.22	-7.78	40.00	55.11	7.29	0.95	31.13	---	---	Peak
2	104.0	35.46	-8.04	43.50	54.20	11.29	1.08	31.11	---	---	Peak
3 @	125.0	37.02	-6.48	43.50	54.24	12.66	1.21	31.09	100	206	Peak
4	374.9	25.70	-20.30	46.00	39.27	15.14	2.17	30.88	---	---	Peak
5	873.3	27.03	-18.97	46.00	33.39	20.34	3.71	30.40	---	---	Peak
6	950.3	26.13	-19.87	46.00	31.60	20.89	3.92	30.28	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY  
Condition : SHF-EHF HORN HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 FDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : 11b Tx\_Ch06,2437MHz  
Data Rate : 1  
Plane : E1

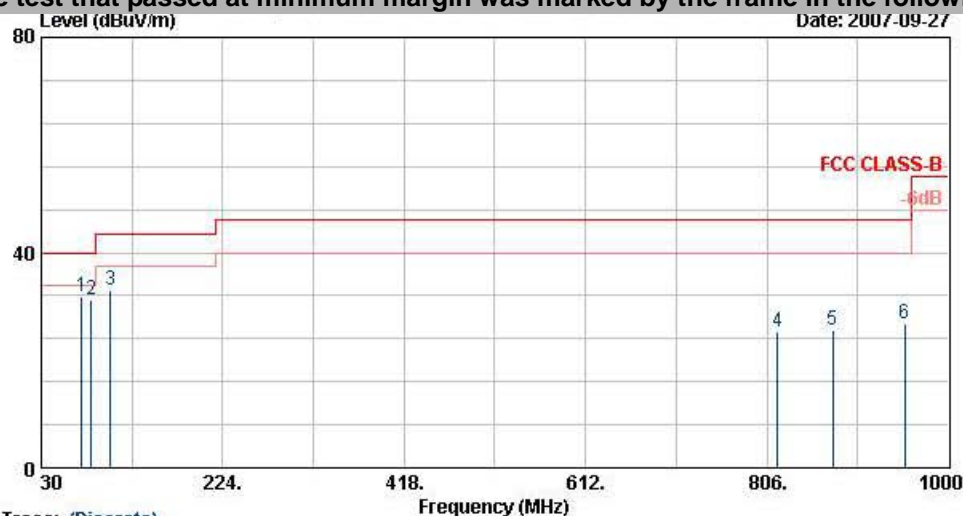
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2384.0	50.01	-23.99	74.00	51.45	30.25	3.75	35.44	100	0 Peak
2	2384.0	39.17	-14.83	54.00	40.61	30.25	3.75	35.44	122	51 Average
3 @	2437.0	98.17			99.55	30.28	3.82	35.47	122	51 Average
4 @	2437.0	101.35			102.73	30.28	3.82	35.47	100	0 Peak
5	2498.0	51.65	-22.35	74.00	52.99	30.30	3.88	35.53	100	0 Peak
6	2498.0	39.72	-14.28	54.00	41.07	30.30	3.88	35.53	122	51 Average
7	7407.0	56.26	-17.74	74.00	45.90	38.71	7.67	36.02	100	0 Peak
8	7407.0	43.86	-10.14	54.00	33.50	38.71	7.67	36.02	100	211 Average

Remark: #3 and #4 Fundamental Signal



Polarization : Vertical

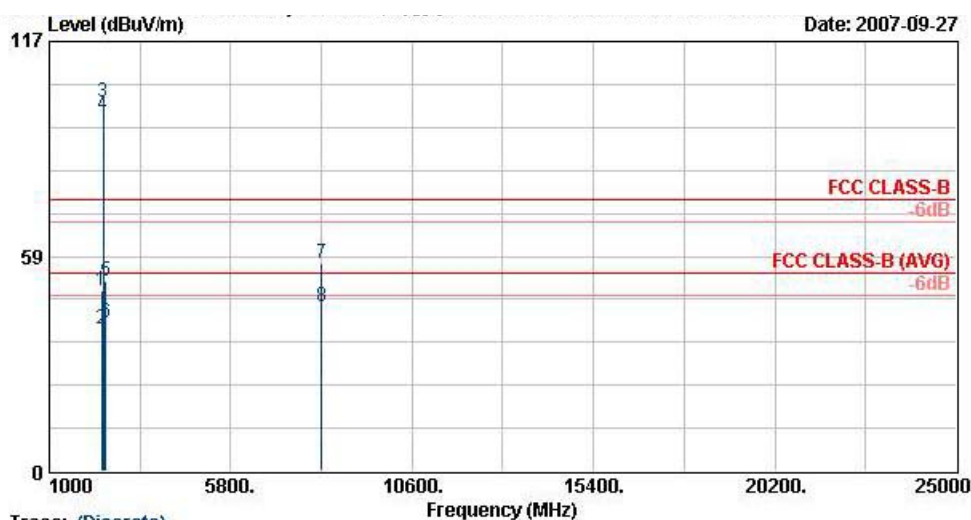
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ch06,2437MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	72.9	31.90	-8.10	40.00	55.07	7.06	0.93	31.16	100	332 Peak
2	83.2	31.08	-8.92	40.00	53.21	7.97	0.99	31.10	---	---
3	104.0	33.12	-10.38	43.50	51.85	11.29	1.08	31.11	---	---
4	817.3	25.15	-20.85	46.00	32.20	19.94	3.48	30.47	---	---
5	876.8	25.43	-20.57	46.00	31.74	20.36	3.72	30.40	---	---
6	953.8	26.69	-19.31	46.00	32.14	20.91	3.93	30.28	---	---



## Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHP-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ch06,2437MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2384.0	49.13	-24.87	74.00	50.57	30.25	3.75	35.44	100	0 Peak
2	2384.0	38.50	-15.50	54.00	39.94	30.25	3.75	35.44	100	99 Average
3 @	2437.0	100.48			101.86	30.28	3.82	35.47	100	0 Peak
4 @	2437.0	97.02			98.40	30.28	3.82	35.47	100	99 Average
5	2484.0	51.83	-22.17	74.00	53.19	30.29	3.86	35.51	100	0 Peak
6	2484.0	40.25	-13.75	54.00	41.61	30.29	3.86	35.51	100	99 Average
7	8196.0	56.61	-17.39	74.00	45.10	39.45	8.02	35.96	100	0 Peak
8	8196.0	44.91	-9.09	54.00	33.40	39.45	8.02	35.96	100	302 Average

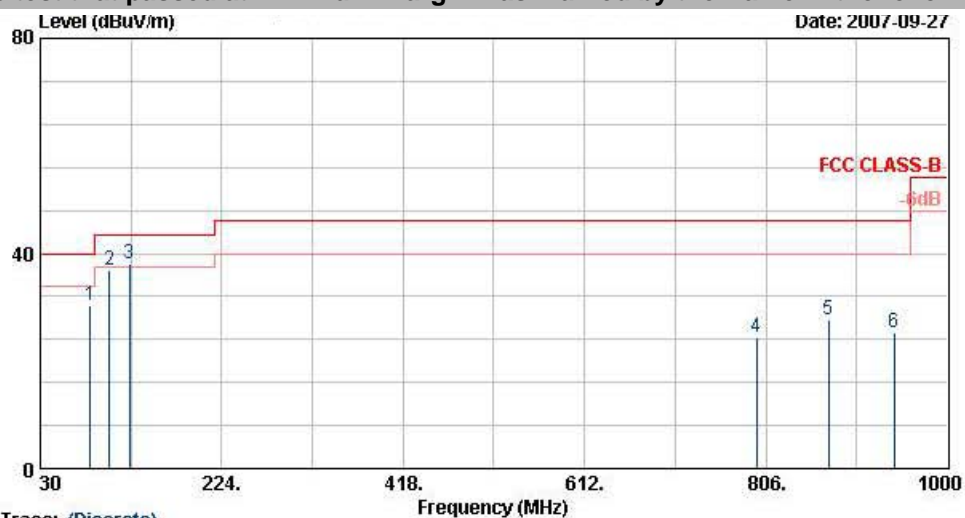
Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 3

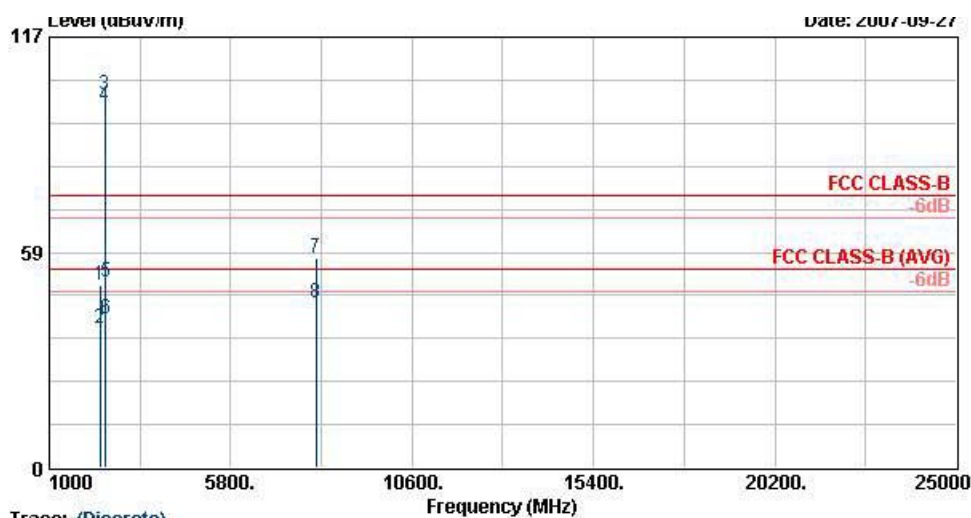
Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ch11;2462MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	83.2	30.46	-9.54	40.00	52.59	7.97	0.99	31.10	---	---	Peak
2	104.0	36.84	-6.66	43.50	55.57	11.29	1.08	31.11	---	---	Peak
3 @	125.0	37.96	-5.54	43.50	55.18	12.66	1.21	31.09	100	285	Peak
4	796.3	24.47	-21.53	46.00	31.77	19.78	3.40	30.49	---	---	Peak
5	873.3	27.63	-18.37	46.00	33.99	20.34	3.71	30.40	---	---	Peak
6	943.3	25.28	-20.72	46.00	30.82	20.84	3.91	30.29	---	---	Peak



Site : 03CH06-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 FDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ck11;2462MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2354.0	49.42	-24.58	74.00	50.89	30.24	3.71	35.42	100	0 Peak
2	2354.0	37.94	-16.06	54.00	39.41	30.24	3.71	35.42	126	62 Average
3 @	2462.0	101.15			102.52	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	98.25			99.62	30.29	3.84	35.49	126	62 Average
5	2487.5	50.41	-23.59	74.00	51.77	30.29	3.86	35.51	100	0 Peak
6	2487.5	40.31	-13.69	54.00	41.67	30.29	3.86	35.51	126	62 Average
7	8061.0	56.95	-17.05	74.00	45.41	39.56	7.87	35.89	100	0 Peak
8	8061.0	44.94	-9.06	54.00	33.40	39.56	7.87	35.89	100	236 Average

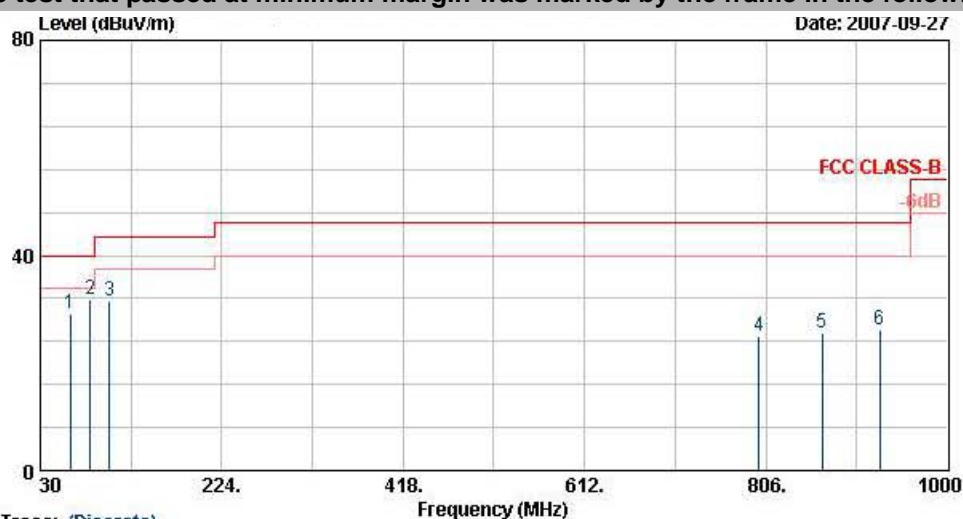
Remark: #3 and #4 Fundamental Signal





Polarization : Vertical

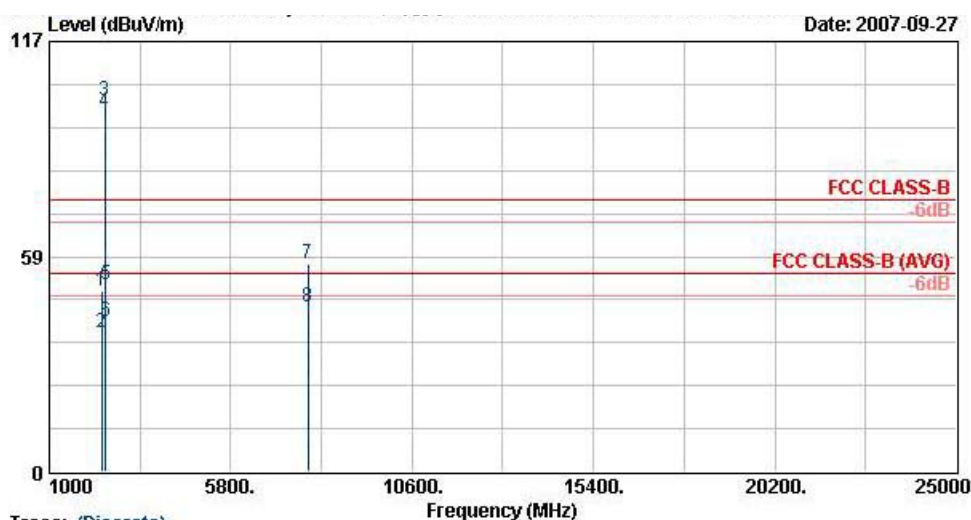
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ch11;2462MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	62.1	29.29	-10.71	40.00	52.95	6.67	0.87	31.20	---	---	Peak
2	83.2	31.82	-8.18	40.00	53.95	7.97	0.99	31.10	100	269	Peak
3	104.0	31.46	-12.04	43.50	50.19	11.29	1.08	31.11	---	---	Peak
4	798.4	24.89	-21.11	46.00	32.18	19.80	3.41	30.49	---	---	Peak
5	866.3	25.61	-20.39	46.00	32.05	20.29	3.68	30.41	---	---	Peak
6	927.9	26.29	-19.71	46.00	32.00	20.73	3.88	30.32	---	---	Peak



## Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11b Tx\_Ch11;2462MHz  
 Data Rate : 1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.0	49.04	-24.96	74.00	50.47	30.26	3.75	35.44	100	0 Peak
2	2388.0	37.89	-16.11	54.00	39.32	30.26	3.75	35.44	100	81 Average
3 @	2462.0	100.91			102.28	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	97.84			99.21	30.29	3.84	35.49	100	81 Average
5	2484.6	50.74	-23.26	74.00	52.10	30.29	3.86	35.51	100	0 Peak
6	2484.6	40.96	-13.04	54.00	42.32	30.29	3.86	35.51	100	81 Average
7	7842.0	56.73	-17.27	74.00	45.54	39.37	7.73	35.91	100	0 Peak
8	7842.0	44.79	-9.21	54.00	33.60	39.37	7.73	35.91	100	298 Average

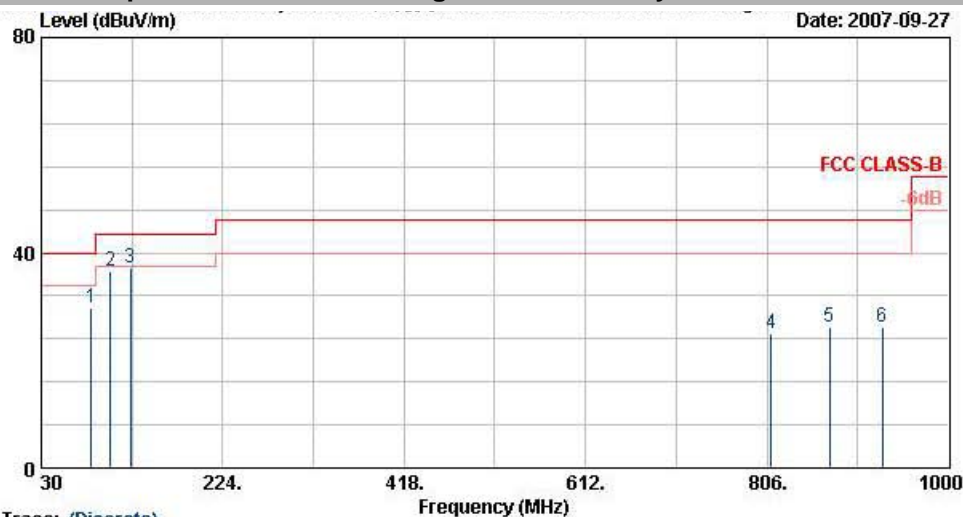
Remark: #3 and #4 Fundamental Signal





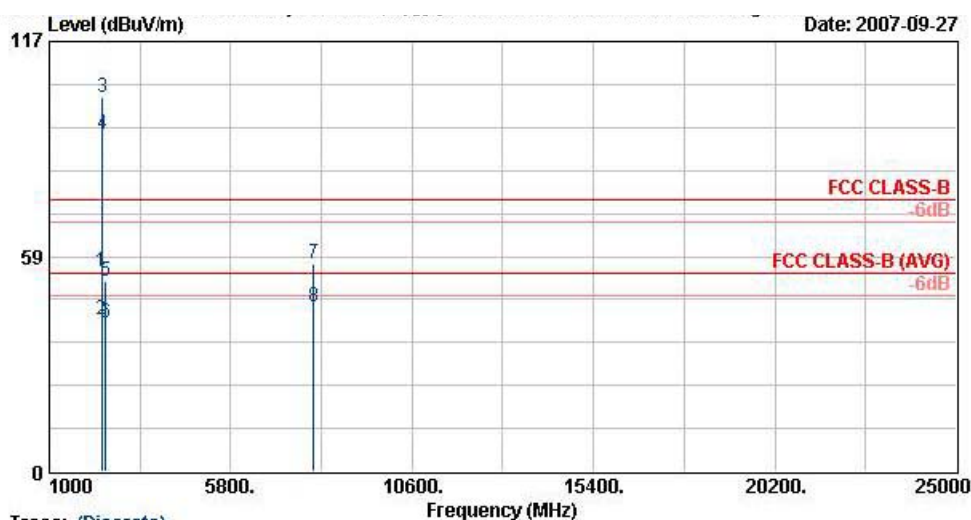
Test Mode : Mode 4  
Polarization : Horizontal

**The test that passed at minimum margin was marked by the frame in the following table.**



Trace: (Discrete)  
Site : 08CH06-HY  
Condition : LF-ANT(951121) HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 PDA Phone  
Power : 120V<sub>ac</sub>/60Hz  
Model : FR 761327-04  
Memo : 11g Tx\_CH01;2412MHz  
Data Rate : 9  
Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	83.2	29.59	-10.41	40.00	51.72	7.97	0.99	31.10	---	---
2	104.0	36.43	-7.07	43.50	55.17	11.29	1.08	31.11	---	---
3 @	125.0	37.32	-6.18	43.50	54.54	12.66	1.21	31.09	100	330
4	810.3	24.92	-21.08	46.00	32.06	19.89	3.45	30.48	---	---
5	873.3	26.19	-19.81	46.00	32.54	20.34	3.71	30.40	---	---
6	929.3	26.07	-19.93	46.00	31.77	20.74	3.88	30.32	---	---



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch01,2412MHz  
 Data Rate : 9  
 Plane : E1

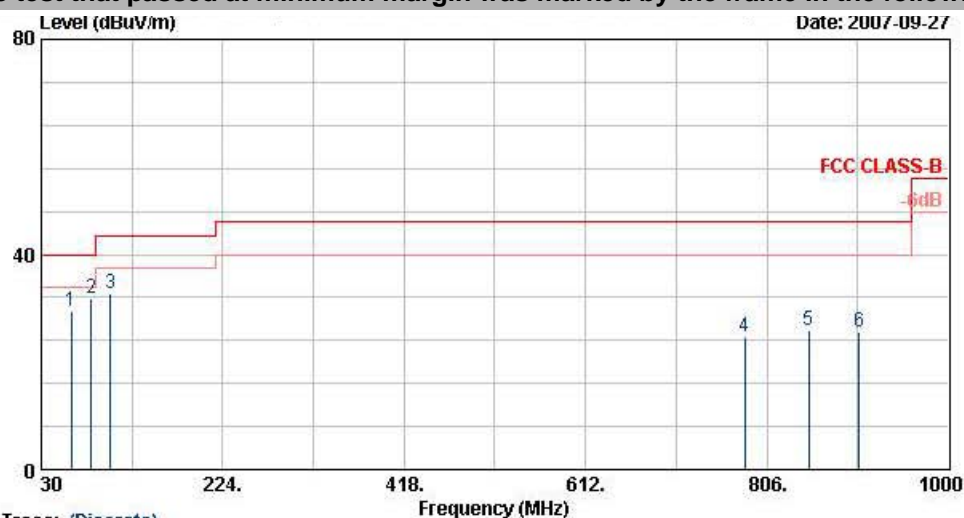
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	54.42	-19.58	74.00	55.87	30.26	3.75	35.46	100	0 Peak
2	2390.0	41.21	-12.79	54.00	42.66	30.26	3.75	35.46	100	82 Average
3 @	2412.0	101.62			103.04	30.27	3.77	35.46	100	0 Peak
4 @	2412.0	91.80			93.22	30.27	3.77	35.46	100	82 Average
5	2494.0	51.63	-22.37	74.00	52.98	30.30	3.88	35.53	100	0 Peak
6	2494.0	40.24	-13.76	54.00	41.59	30.30	3.88	35.53	100	82 Average
7	7992.0	56.56	-17.44	74.00	45.04	39.58	7.79	35.85	100	0 Peak
8	7992.0	44.92	-9.08	54.00	33.40	39.58	7.79	35.85	100	285 Average

Remark: #3 and #4 Fundamental Signal



Polarization : Vertical

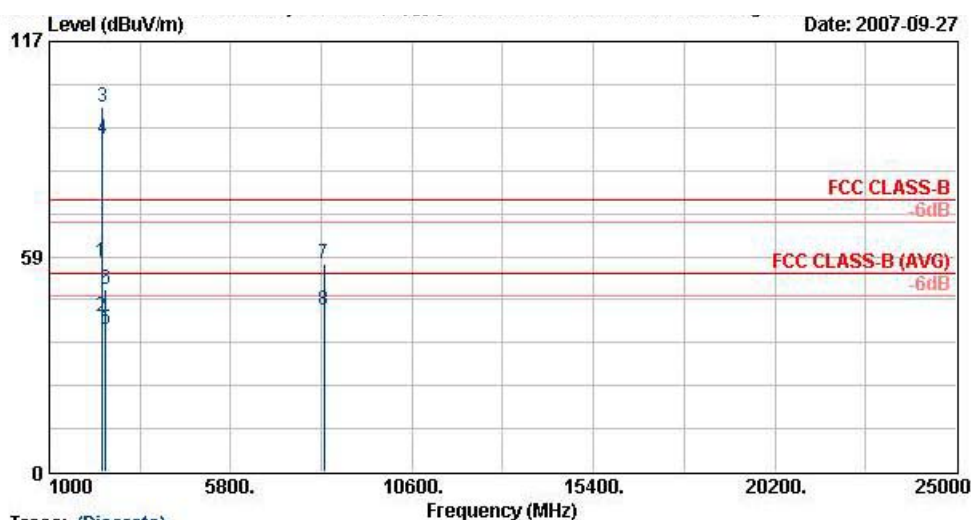
**The test that passed at minimum margin was marked by the frame in the following table.**



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch01,2412MHz  
 Data Rate : 9  
 Plane : E1

Line	: E1										
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	62.1	29.30	-10.70	40.00	52.95	6.67	0.87	31.20	---	---	Peak
2	83.2	31.88	-8.12	40.00	54.01	7.97	0.99	31.10	100	299	Peak
3	104.0	32.85	-10.65	43.50	51.59	11.29	1.08	31.11	---	---	Peak
4	782.3	24.69	-21.31	46.00	32.16	19.66	3.38	30.50	---	---	Peak
5	850.9	25.74	-20.26	46.00	32.37	20.18	3.62	30.43	---	---	Peak
6	904.8	25.70	-20.30	46.00	31.67	20.56	3.83	30.36	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch01;2412MHz  
 Data Rate : 9  
 Plane : E1

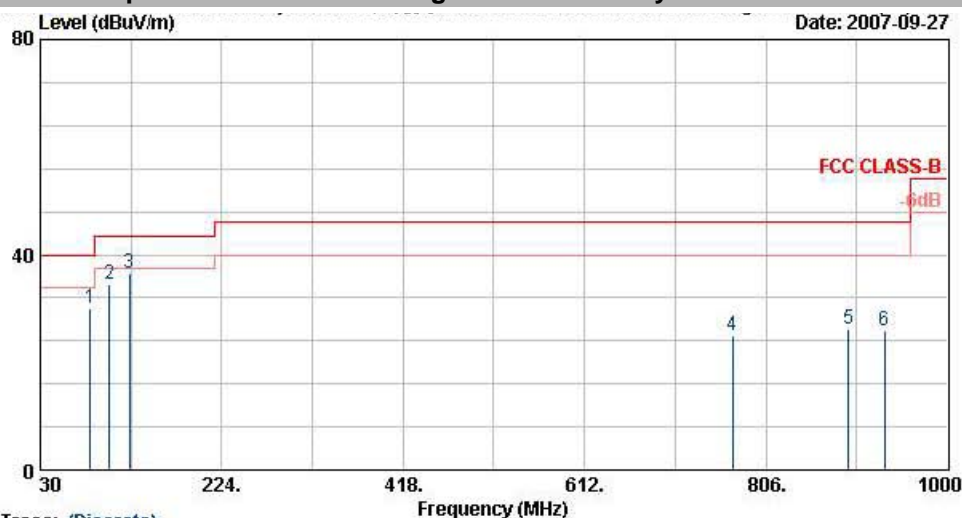
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	57.06	-16.94	74.00	58.51	30.26	3.75	35.46	100	0 Peak
2	2390.0	42.40	-11.60	54.00	43.85	30.26	3.75	35.46	127	300 Average
3 @	2412.0	99.10			100.52	30.27	3.77	35.46	100	0 Peak
4 @	2412.0	90.50			91.92	30.27	3.77	35.46	127	300 Average
5	2488.0	38.77	-15.23	54.00	40.12	30.30	3.86	35.51	127	300 Average
6	2488.0	49.45	-24.55	74.00	50.80	30.30	3.86	35.51	100	0 Peak
7	8262.0	56.36	-17.64	74.00	44.88	39.39	8.08	36.00	100	0 Peak
8	8262.0	44.08	-9.92	54.00	32.60	39.39	8.08	36.00	100	266 Average

Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 5  
Polarization : Horizontal

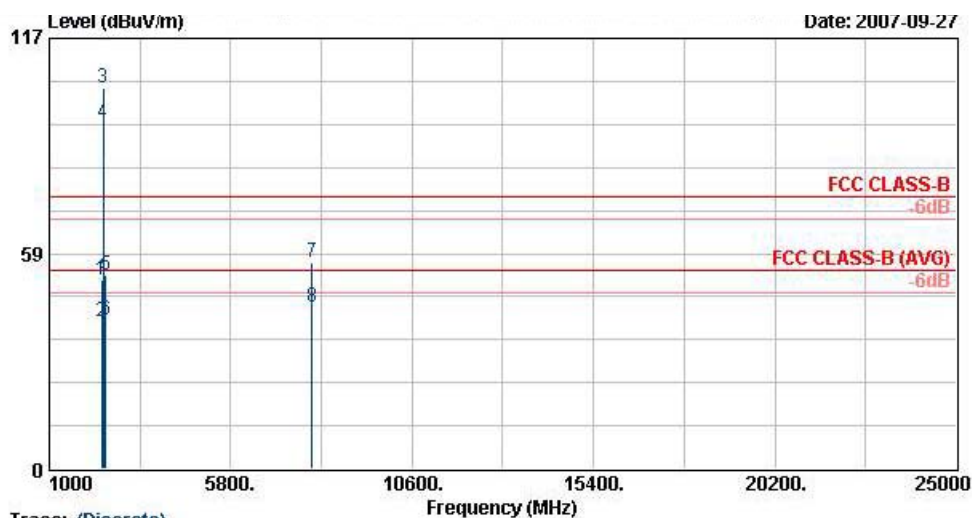
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-ANT(951121) HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 PDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : 11g Tx\_Ch06;2437MHz  
Data Rate : 9  
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	83.2	30.04	-9.96	40.00	52.17	7.97	0.99	31.10	---	Peak
2	104.0	34.49	-9.01	43.50	53.22	11.29	1.08	31.11	---	Peak
3 @	125.0	36.63	-6.87	43.50	53.85	12.66	1.21	31.09	100	206 Peak
4	770.4	25.06	-20.94	46.00	32.67	19.54	3.36	30.51	---	Peak
5	894.3	26.14	-19.86	46.00	32.23	20.49	3.80	30.38	---	Peak
6	932.8	25.97	-20.03	46.00	31.63	20.76	3.89	30.31	---	Peak



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 FDA Phone  
 Power : 120Wac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch06,2437MHz  
 Data Rate : 9  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2384.0	51.33	-22.67	74.00	52.77	30.25	3.75	35.44	100	0 Peak
2	2384.0	39.81	-14.19	54.00	41.25	30.25	3.75	35.44	121	51 Average
3 @	2437.0	103.49			104.89	30.28	3.82	35.49	100	0 Peak
4 @	2437.0	94.00			95.38	30.28	3.82	35.47	121	51 Average
5	2484.0	52.45	-21.55	74.00	53.81	30.29	3.86	35.51	100	0 Peak
6	2484.0	40.49	-13.51	54.00	41.85	30.29	3.86	35.51	121	51 Average
7	7956.0	56.21	-17.79	74.00	44.76	39.53	7.78	35.86	100	0 Peak
8	7956.0	43.85	-10.15	54.00	32.40	39.53	7.78	35.86	100	236 Average

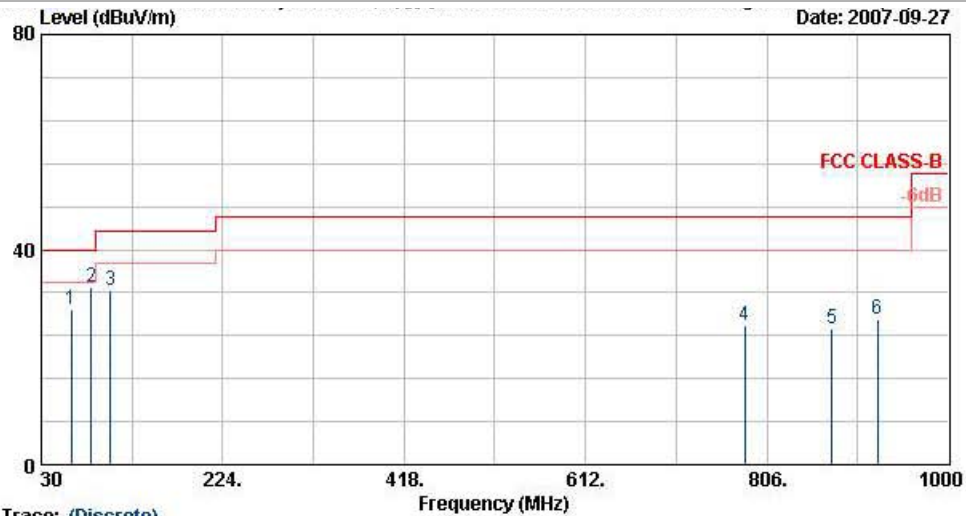
Remark: #3 and #4 Fundamental Signal





Polarization : Vertical

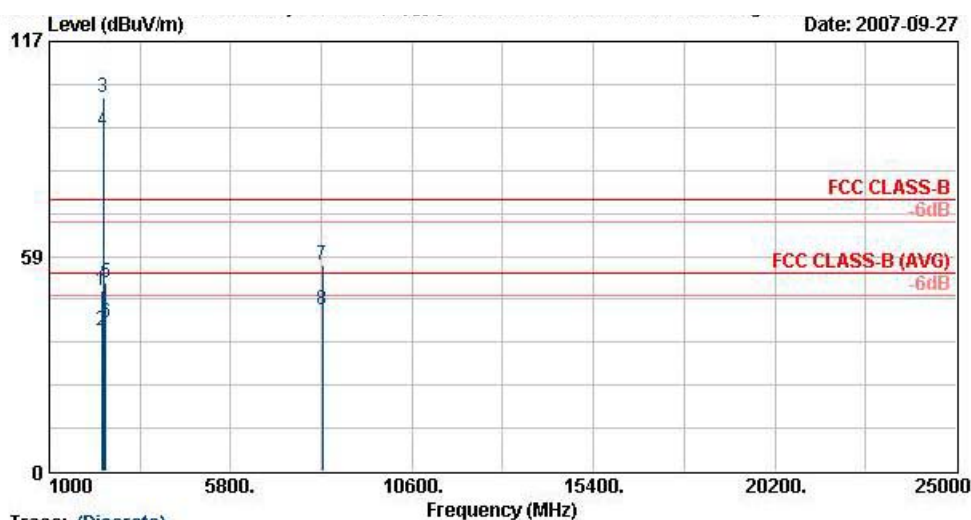
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch06,2437MHz  
 Data Rate : 9  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	62.1	28.85	-11.15	40.00	52.51	6.67	0.87	31.20	---	Peak
2	83.2	33.12	-6.88	40.00	55.25	7.97	0.99	31.10	100	306 Peak
3	104.0	32.51	-10.99	43.50	51.25	11.29	1.08	31.11	---	Peak
4	782.3	25.78	-20.22	46.00	33.25	19.66	3.38	30.50	---	Peak
5	875.4	25.38	-20.62	46.00	31.70	20.36	3.72	30.40	---	Peak
6	924.4	27.01	-18.99	46.00	32.76	20.70	3.87	30.33	---	Peak



## Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHP-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch06,2437MHz  
 Data Rate : 9  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.0	49.11	-24.89	74.00	50.54	30.26	3.75	35.44	100	0 Peak
2	2388.0	38.42	-15.58	54.00	39.85	30.26	3.75	35.44	100	82 Average
3 @	2437.0	101.58			102.97	30.28	3.82	35.49	100	0 Peak
4 @	2437.0	92.51			93.89	30.28	3.82	35.47	100	82 Average
5	2498.0	51.25	-22.75	74.00	52.60	30.30	3.88	35.53	100	0 Peak
6	2498.0	40.25	-13.75	54.00	41.60	30.30	3.88	35.53	100	82 Average
7	8226.0	56.30	-17.70	74.00	44.81	39.42	8.04	35.97	100	0 Peak
8	8226.0	44.09	-9.91	54.00	32.60	39.42	8.04	35.97	100	252 Average

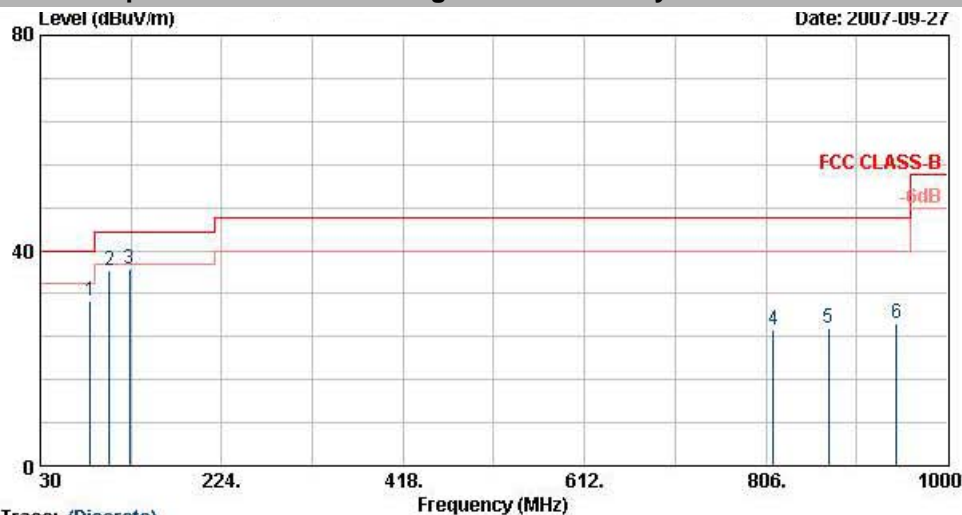
Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 6

Polarization : Horizontal

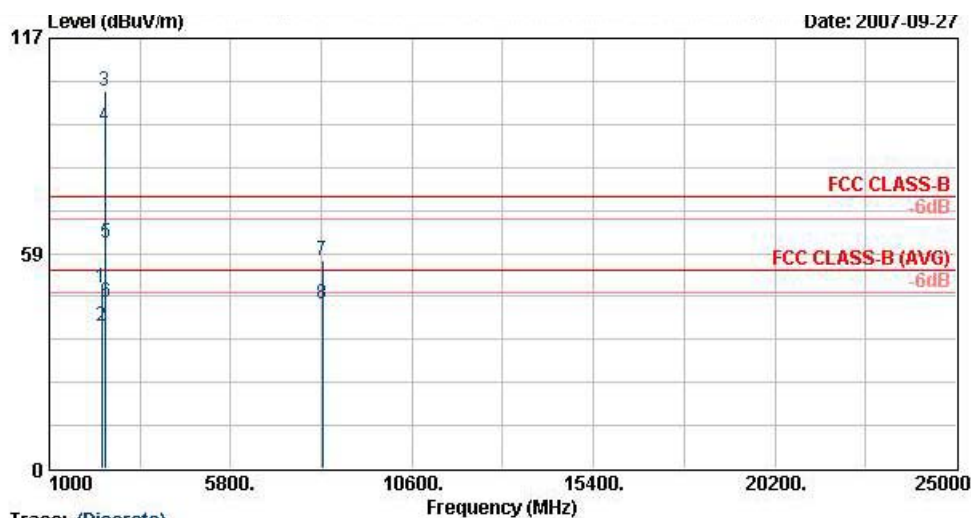
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch11,2462MHz  
 Data Rate : 9  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	83.2	30.69	-9.31	40.00	52.83	7.97	0.99	31.10	---	---
2	104.0	36.26	-7.24	43.50	54.99	11.29	1.08	31.11	---	---
3 @	125.0	36.64	-6.86	43.50	53.86	12.66	1.21	31.09	100	302
4	813.8	25.30	-20.70	46.00	32.40	19.92	3.47	30.47	---	---
5	873.3	25.56	-20.44	46.00	31.91	20.34	3.71	30.40	---	---
6	945.4	26.38	-19.62	46.00	31.90	20.85	3.91	30.29	---	---



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 FDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch11;2462MHz  
 Data Rate : 9  
 Plane : E1

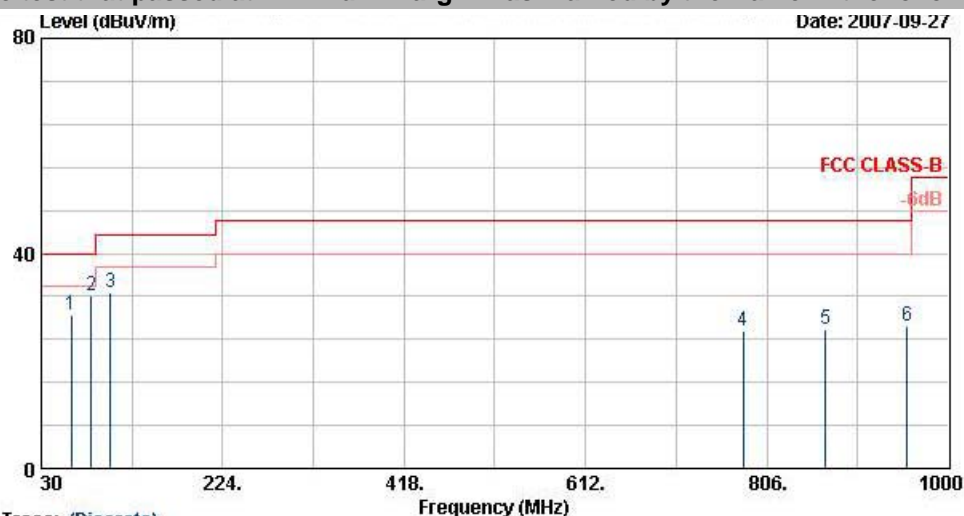
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2384.0	49.36	-24.64	74.00	50.80	30.25	3.75	35.44	100	0 Peak
2	2384.0	38.88	-15.12	54.00	40.32	30.25	3.75	35.44	100	100 Average
3 @	2462.0	102.48			103.85	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	92.94			94.31	30.29	3.84	35.49	100	100 Average
5	2483.5	61.33	-12.67	74.00	62.69	30.29	3.86	35.51	100	0 Peak
6	2483.5	45.16	-8.84	54.00	46.52	30.29	3.86	35.51	100	100 Average
7	8232.0	56.62	-17.38	74.00	45.12	39.42	8.06	35.98	100	0 Peak
8	8232.0	44.70	-9.30	54.00	33.20	39.42	8.06	35.98	100	258 Average

Remark: #3 and #4 Fundamental Signal



Polarization : Vertical

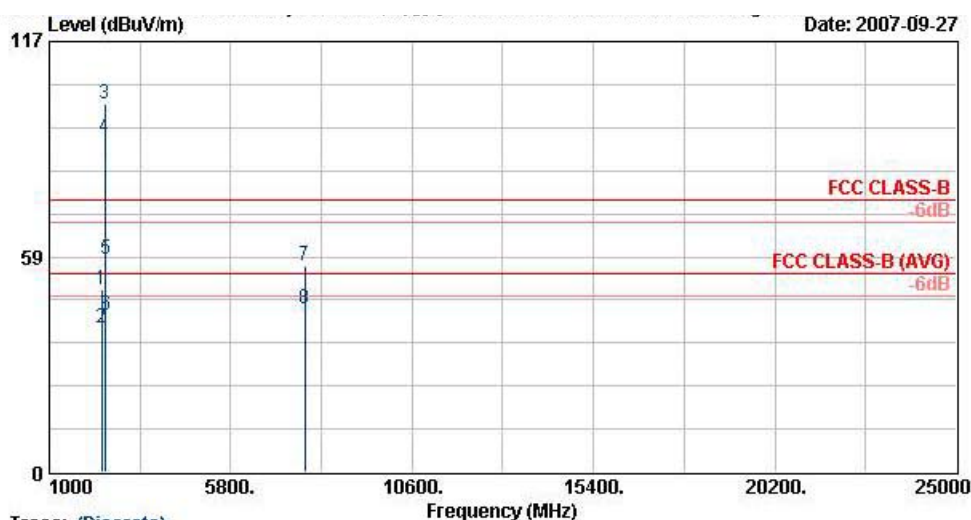
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CHD6-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : 11g Tx\_Ch11,2462MHz  
 Data Rate : 9  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	62.1	28.44	-11.56	40.00	52.10	6.67	0.87	31.20	---	---
2	83.2	32.19	-7.81	40.00	54.32	7.97	0.99	31.10	100	206
3	104.0	32.75	-10.75	43.50	51.48	11.29	1.08	31.11	---	---
4	780.9	25.58	-20.42	46.00	33.07	19.64	3.38	30.51	---	---
5	868.4	25.78	-20.22	46.00	32.20	20.30	3.69	30.41	---	---
6	955.9	26.49	-19.51	46.00	31.91	20.93	3.93	30.28	---	---



## Trace: (Discrete)

Site : 03CH06-HY  
Condition : SHF-EHF HORN VERTICAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 PDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : 11g Tx\_Ch11;2462MHz  
Data Rate : 9  
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.0	49.67	-24.33	74.00	51.10	30.26	3.75	35.44	100	0 Peak
2	2388.0	39.17	-14.83	54.00	40.60	30.26	3.75	35.44	127	63 Average
3 @	2462.0	99.96			101.33	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	90.90			92.27	30.29	3.84	35.49	127	63 Average
5	2483.5	57.81	-16.19	74.00	59.17	30.29	3.86	35.51	100	0 Peak
6	2483.5	42.52	-11.48	54.00	43.88	30.29	3.86	35.51	127	63 Average
7	7752.0	56.13	-17.87	74.00	45.13	39.25	7.70	35.95	100	0 Peak
8	7752.0	44.40	-9.60	54.00	33.40	39.25	7.70	35.95	100	274 Average

Remark: #3 and #4 Fundamental Signal

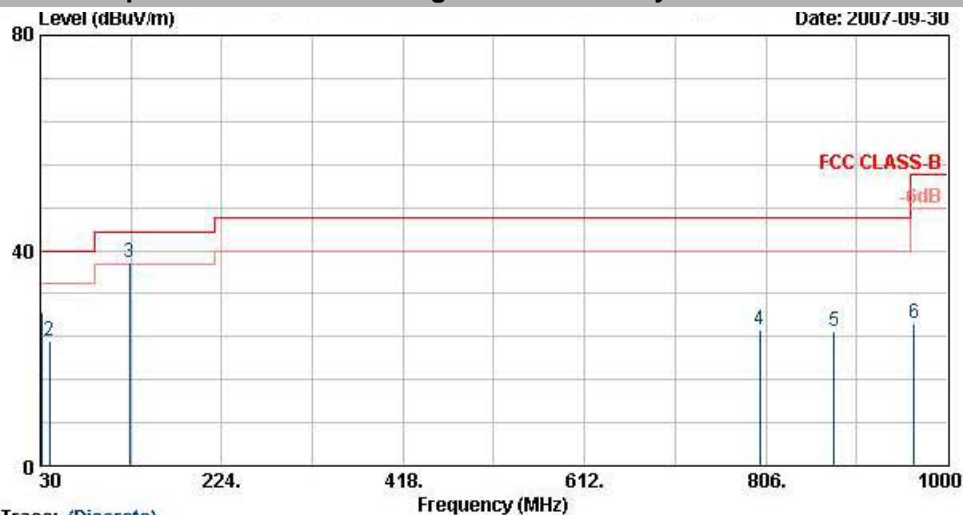




Test Mode : Mode 9

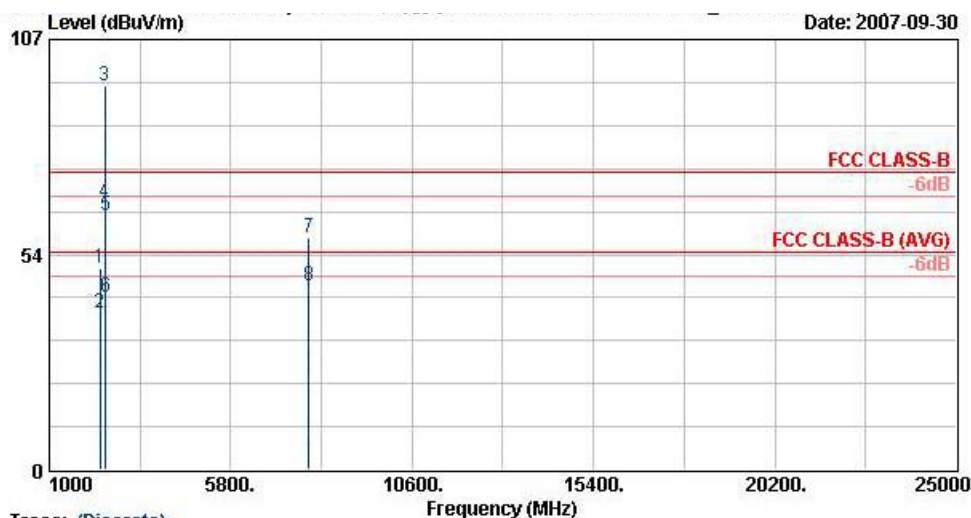
Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78;2480MHz  
 Data Rate : DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.1	28.60	-11.40	40.00	40.43	18.95	0.64	31.43	---	---
2	40.0	23.08	-16.92	40.00	40.08	13.51	0.70	31.21	---	---
3	125.0	37.88	-5.62	43.50	55.10	12.66	1.21	31.09	100	131
4	799.8	25.21	-20.79	46.00	32.47	19.82	3.41	30.49	---	---
5	878.9	25.12	-20.88	46.00	31.40	20.38	3.73	30.39	---	---
6	964.3	26.57	-27.43	54.00	31.91	20.98	3.95	30.28	---	---



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78;2480MHz  
 Data Rate : DH1  
 Plane : E1

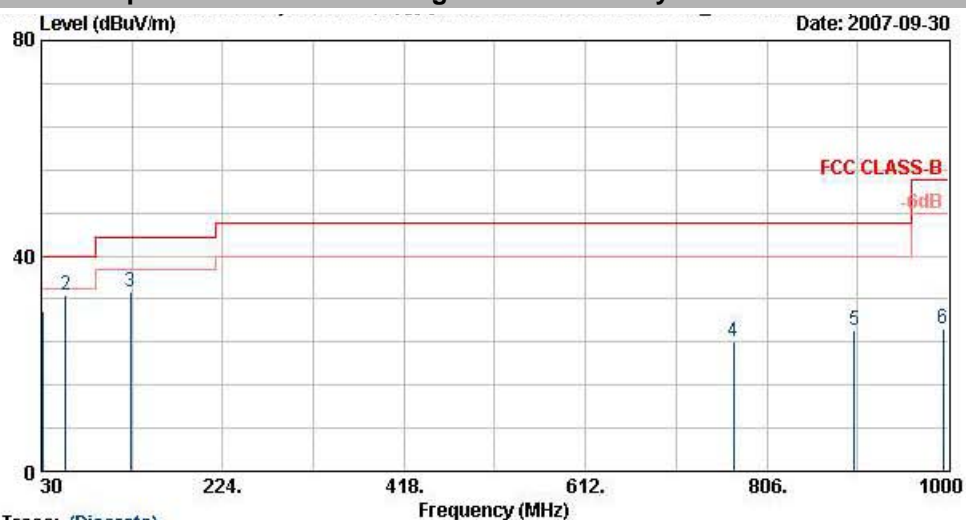
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2348.0	49.98	-24.02	74.00	51.46	30.24	3.71	35.42	100	0 Peak
2	2348.0	39.11	-14.89	54.00	40.59	30.24	3.71	35.42	100	352 Average
3 X	2480.0	95.52			96.87	30.29	3.86	35.51	100	0 Peak
4 X	2480.0	66.42			67.78	30.29	3.86	35.51	100	352 Average
5	2483.5	63.07	-10.93	74.00	64.43	30.29	3.86	35.51	100	0 Peak
6	2483.5	42.96	-11.04	54.00	44.32	30.29	3.86	35.51	100	352 Average
7	7872.0	57.61	-16.39	74.00	46.35	39.41	7.75	35.90	100	0 Peak
8	7872.0	45.64	-8.36	54.00	34.38	39.41	7.75	35.90	100	116 Average

Remark: #3 and #4 Fundamental Signal



Polarization : Vertical

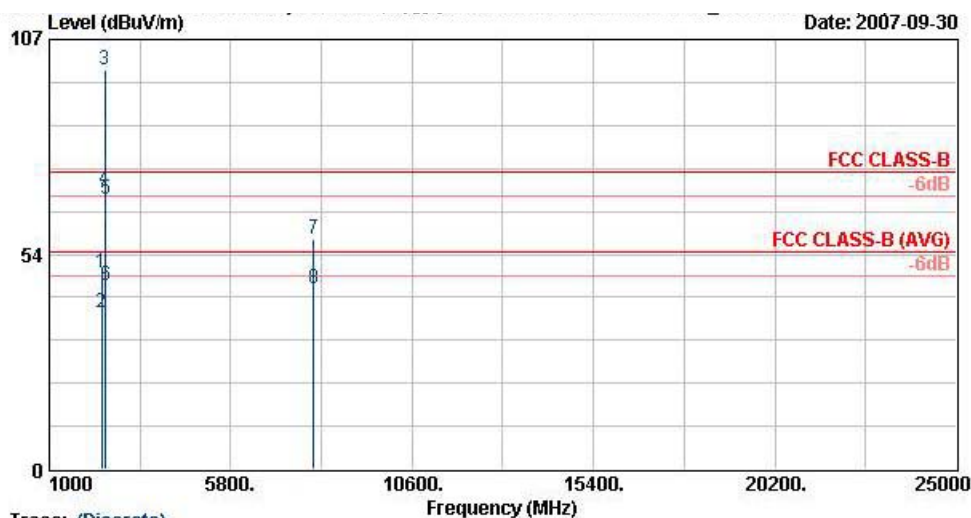
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_CK78;2480MHz  
 Data Rate : DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.1	29.71	-10.29	40.00	41.54	18.95	0.64	31.43	---	---
2	56.2	32.62	-7.38	40.00	55.74	7.20	0.83	31.16	100	172
3	125.0	33.25	-10.25	43.50	50.47	12.66	1.21	31.09	---	---
4	770.4	24.15	-21.85	46.00	31.76	19.54	3.36	30.51	---	---
5	899.9	26.06	-19.94	46.00	32.08	20.53	3.82	30.37	---	---
6	994.4	26.43	-27.57	54.00	31.49	21.20	4.01	30.27	---	---



## Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHP-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78;2480MHz  
 Data Rate : DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2384.0	49.12	-24.88	74.00	50.56	30.25	3.75	35.44	100	0 Peak
2	2384.0	39.06	-14.94	54.00	40.50	30.25	3.75	35.44	103	23 Average
3 @	2480.0	99.54			100.90	30.29	3.86	35.51	100	0 Peak
4 X	2480.0	69.76			71.12	30.29	3.86	35.51	103	23 Average
5	2483.5	67.09	-6.91	74.00	68.45	30.29	3.86	35.51	100	0 Peak
6	2483.5	45.94	-8.06	54.00	47.30	30.29	3.86	35.51	103	23 Average
7	8001.0	57.44	-16.56	74.00	45.91	39.60	7.79	35.86	100	0 Peak
8	8001.0	45.10	-8.90	54.00	33.57	39.60	7.79	35.86	100	216 Average

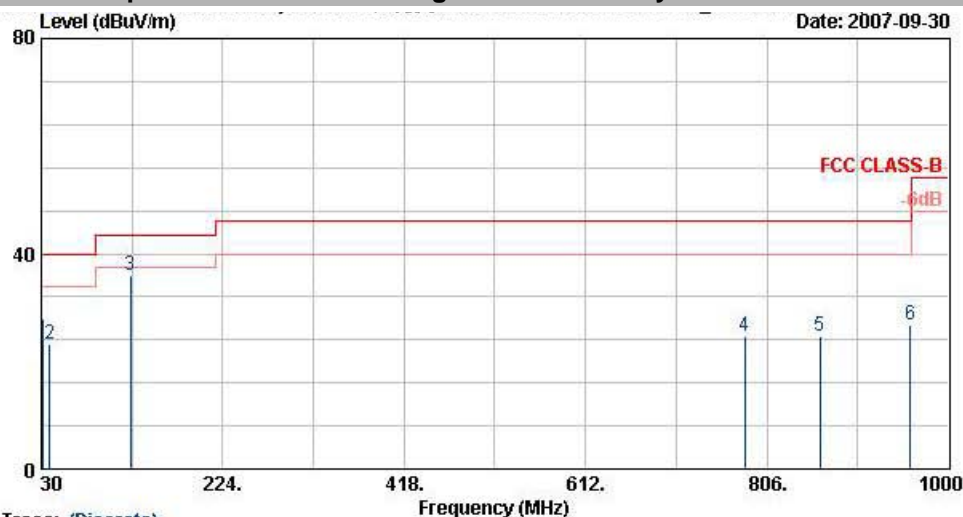
Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 12

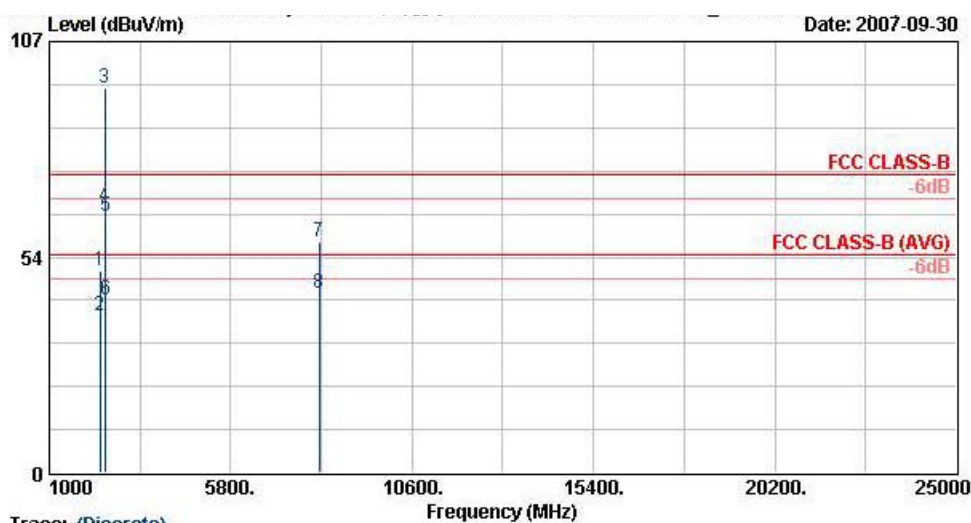
Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LP-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ch78;2480MHz  
 Data Rate : 2DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	27.86	-12.14	40.00	39.69	18.95	0.64	31.43	---	---	Peak
2	39.2	23.30	-16.70	40.00	39.78	14.03	0.70	31.21	---	---	Peak
3 @	125.0	35.96	-7.54	43.50	53.18	12.66	1.21	31.09	100	128	Peak
4	782.3	24.79	-21.21	46.00	32.25	19.66	3.38	30.50	---	---	Peak
5	862.8	24.76	-21.24	46.00	31.24	20.27	3.67	30.41	---	---	Peak
6	959.4	26.88	-19.12	46.00	32.27	20.95	3.94	30.28	---	---	Peak

**Trace: (Discrete)**

Site : 03CH06-HY  
Condition : SHF-EHF HORN HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 PDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : BT Tx\_C178;2480MHz  
Data Rate : 2DH1  
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2338.0	49.99	-24.01	74.00	51.47	30.24	3.69	35.40	100	0 Peak
2	2338.0	39.11	-14.89	54.00	40.59	30.24	3.69	35.40	100	352 Average
3 @	2480.0	95.62			96.98	30.29	3.86	35.51	100	0 Peak
4 @	2480.0	65.89			67.25	30.29	3.86	35.51	100	352 Average
5	2483.5	63.82	-10.18	74.00	65.18	30.29	3.86	35.51	100	0 Peak
6	2483.5	42.98	-11.02	54.00	44.34	30.29	3.86	35.51	100	352 Average
7	8151.0	57.20	-16.80	74.00	45.70	39.48	7.96	35.93	100	0 Peak
8	8151.0	44.44	-9.56	54.00	32.94	39.48	7.96	35.93	100	195 Average

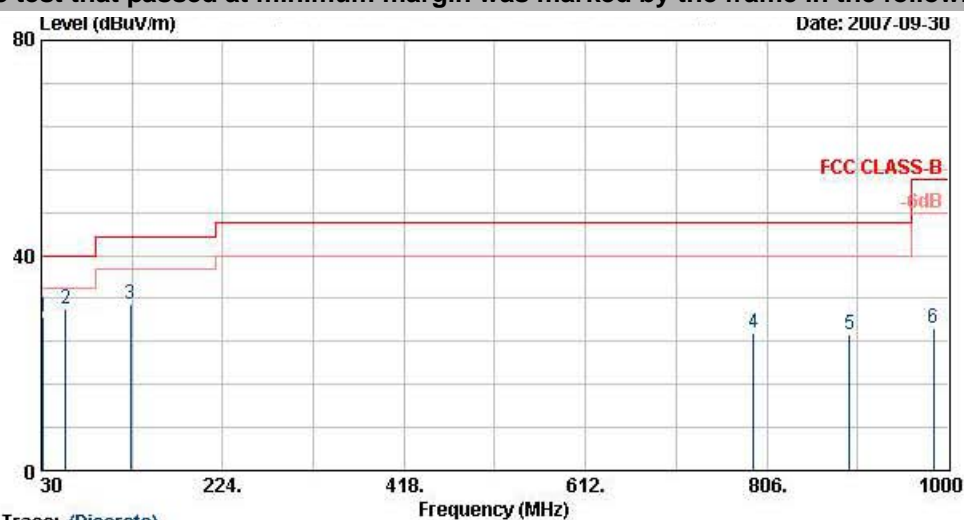
Remark: #3 and #4 Fundamental Signal





Polarization : Vertical

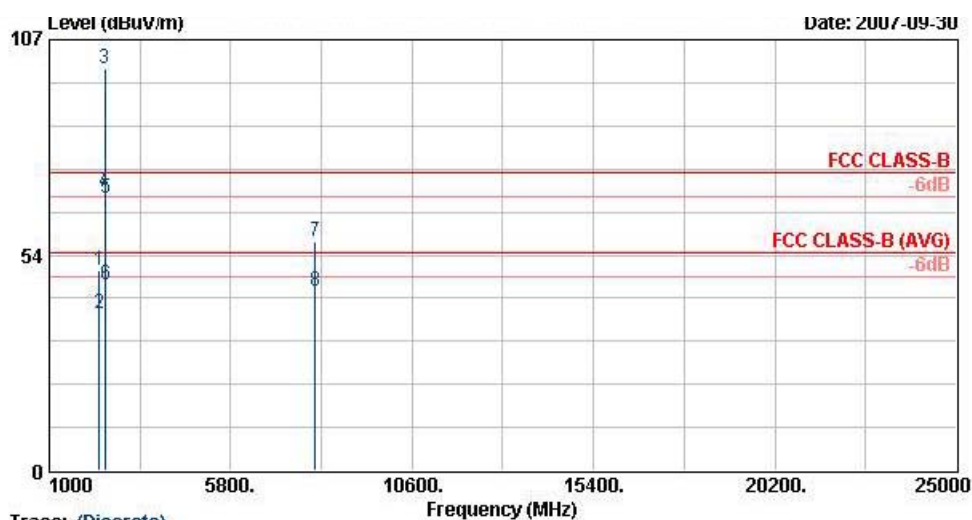
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 06CH06-HY  
 Condition : LP-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_CK78;2480MHz  
 Data Rate : 2DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.4	28.55	-11.45	40.00	41.71	17.54	0.66	31.36	---	---	Peak
2	56.2	30.08	-9.92	40.00	53.20	7.20	0.83	31.16	100	201	Peak
3	125.0	30.93	-12.57	43.50	48.15	12.66	1.21	31.09	---	---	Peak
4	791.4	25.45	-20.55	46.00	32.81	19.74	3.40	30.50	---	---	Peak
5	894.3	25.30	-20.70	46.00	31.39	20.49	3.80	30.38	---	---	Peak
6	983.9	26.47	-27.53	54.00	31.63	21.12	3.99	30.27	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78,2480MHz  
 Data Rate : 2DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2328.0	49.82	-24.18	74.00	51.30	30.23	3.69	35.40	100	0 Peak
2	2328.0	39.04	-14.96	54.00	40.53	30.23	3.69	35.40	103	23 Average
3 @	2480.0	99.67			101.03	30.29	3.86	35.51	100	0 Peak
4 @	2480.0	69.37			70.73	30.29	3.86	35.51	103	23 Average
5 @	2483.5	67.52	-6.48	74.00	68.88	30.29	3.86	35.51	100	0 Peak
6	2483.5	45.98	-8.02	54.00	47.34	30.29	3.86	35.51	103	23 Average
7	8046.0	56.88	-17.12	74.00	45.33	39.57	7.85	35.87	100	0 Peak
8	8046.0	44.73	-9.27	54.00	33.18	39.57	7.85	35.87	100	249 Average

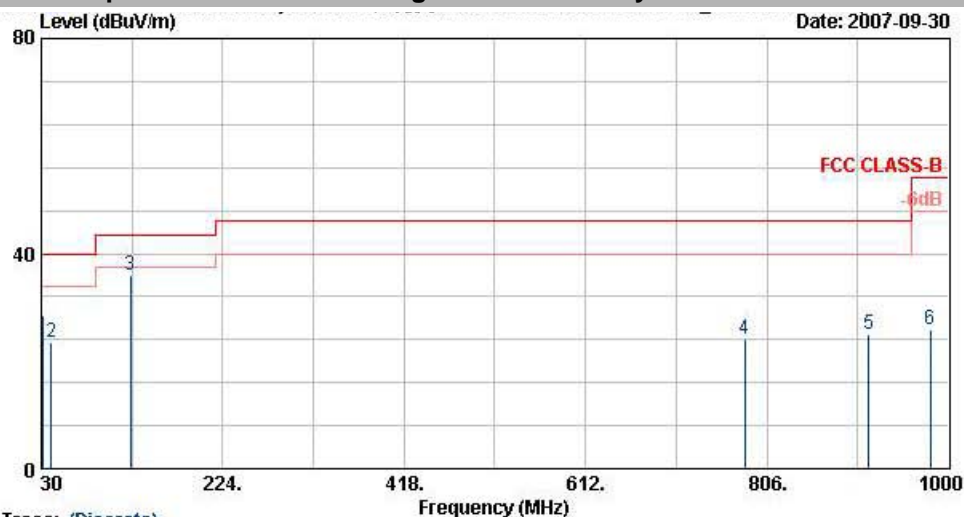
Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 13

Polarization : Horizontal

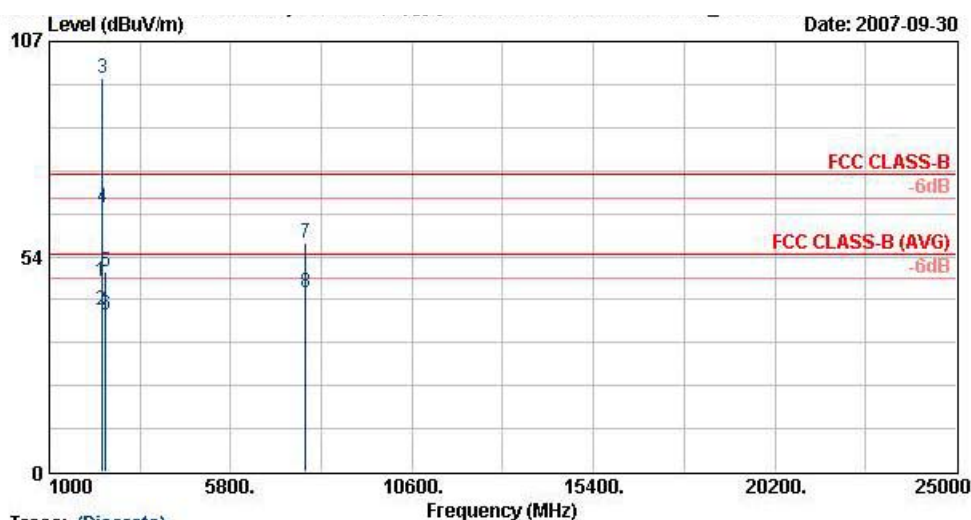
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ch00;2402MHz  
 Data Rate : 3DH1  
 Plane : E1

Plane	E1										
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	28.66	-11.34	40.00	40.49	18.95	0.64	31.43	---	---	Peak
2	40.5	23.52	-16.48	40.00	40.99	13.01	0.71	31.19	---	---	Peak
3	125.0	36.11	-7.39	43.50	53.33	12.66	1.21	31.09	100	173	Peak
4	782.3	24.22	-21.78	46.00	31.69	19.66	3.38	30.50	---	---	Peak
5	915.3	25.03	-20.97	46.00	30.88	20.64	3.85	30.34	---	---	Peak
6	980.4	25.95	-28.05	54.00	31.14	21.10	3.98	30.27	---	---	Peak

**Trace: (Discrete)**

Site : 03CH06-HY  
Condition : SHF-EHF HORN HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
/HSDPA 850/1900/2100 PDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : 3DH1  
Plane : E1

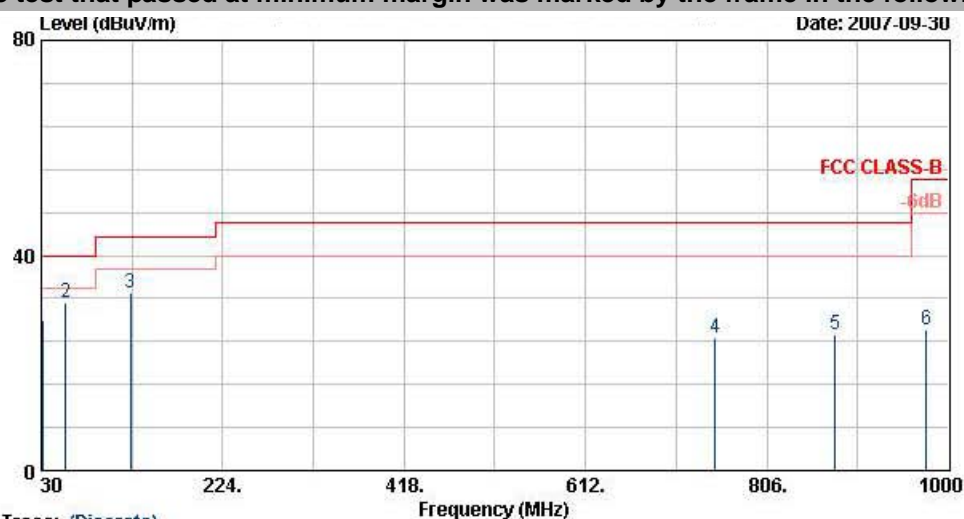
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	47.32	-26.68	74.00	48.77	30.26	3.75	35.46	100	0 Peak
2	2390.0	40.15	-13.85	54.00	41.60	30.26	3.75	35.46	100	351 Average
3 X	2402.0	98.03			99.45	30.27	3.77	35.46	100	0 Peak
4 X	2402.0	65.51			66.94	30.26	3.77	35.46	100	351 Average
5	2484.0	49.68	-24.32	74.00	51.04	30.29	3.86	35.51	100	0 Peak
6	2484.0	38.89	-15.11	54.00	40.25	30.29	3.86	35.51	100	351 Average
7	7791.0	56.71	-17.29	74.00	45.64	39.30	7.71	35.94	100	0 Peak
8	7791.0	44.55	-9.45	54.00	33.48	39.30	7.71	35.94	100	83 Average

Remark: #3 and #4 Fundamental Signal



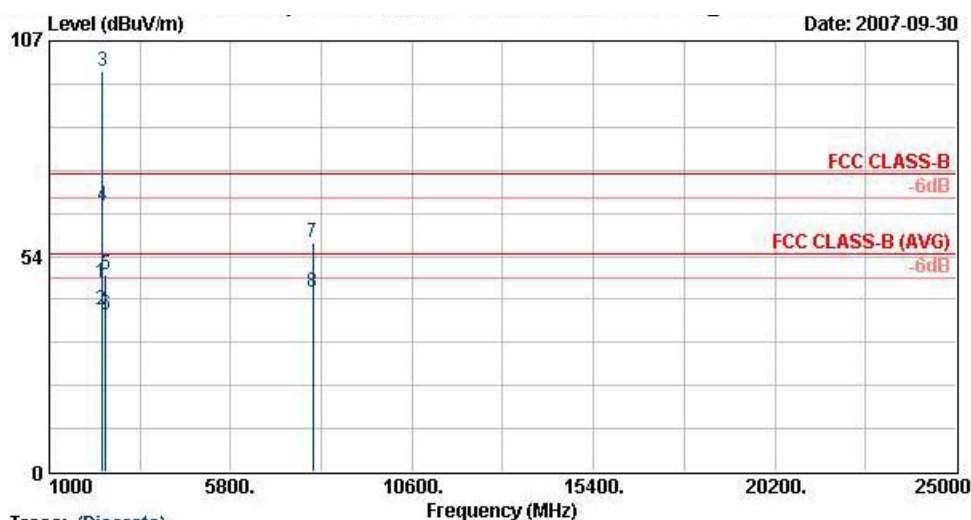
Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 FDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ch00;2402MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	27.84	-12.16	40.00	39.67	18.95	0.64	31.43	---	---	Peak
2	56.2	31.18	-8.82	40.00	54.30	7.20	0.83	31.16	100	153	Peak
3	125.0	33.12	-10.38	43.50	50.34	12.66	1.21	31.09	---	---	Peak
4	750.8	24.72	-21.28	46.00	32.56	19.36	3.33	30.53	---	---	Peak
5	878.9	25.26	-20.74	46.00	31.55	20.38	3.73	30.39	---	---	Peak
6	976.9	26.18	-27.82	54.00	31.41	21.07	3.97	30.27	---	---	Peak



## Trace: (Discrete)

Site : 03CH06-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ch00;2402MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	46.96	-27.04	74.00	48.41	30.26	3.75	35.46	100	0 Peak
2	2390.0	40.14	-13.86	54.00	41.59	30.26	3.75	35.46	106	28 Average
3 @	2402.0	99.33			100.76	30.26	3.77	35.46	100	0 Peak
4 X	2402.0	66.07			67.50	30.26	3.77	35.46	106	28 Average
5	2484.0	49.01	-24.99	74.00	50.37	30.29	3.86	35.51	100	0 Peak
6	2484.0	38.92	-15.08	54.00	40.28	30.29	3.86	35.51	106	28 Average
7	7977.0	56.77	-17.23	74.00	45.28	39.55	7.78	35.85	100	0 Peak
8	7977.0	44.74	-9.26	54.00	33.25	39.55	7.78	35.85	100	152 Average

Remark: #3 and #4 Fundamental Signal

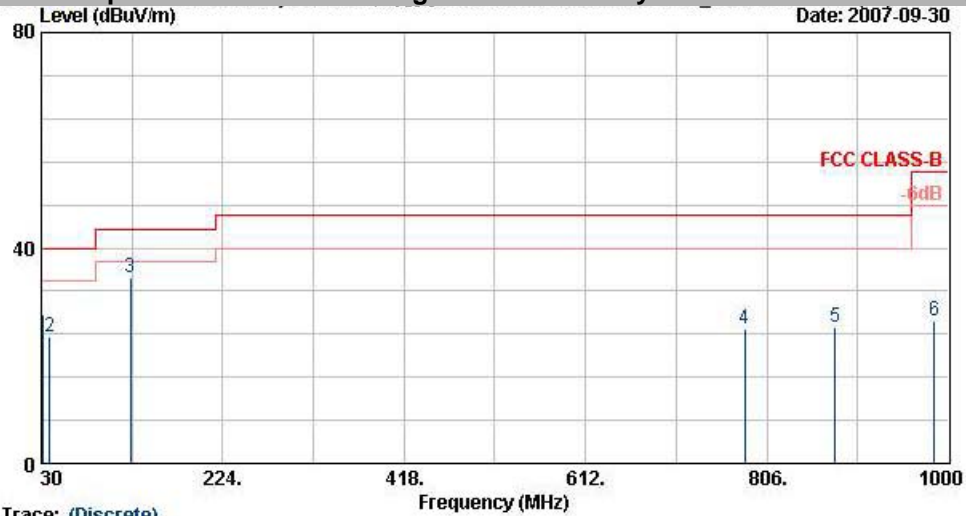




Test Mode : Mode 14

Polarization : Horizontal

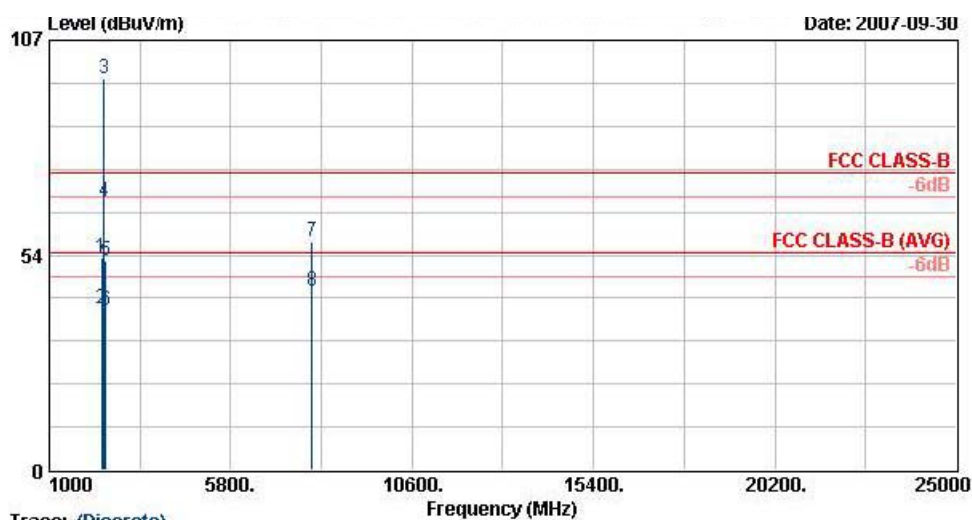
**The test that passed at minimum margin was marked by the frame in the following table.**



Trace: (Discrete)

Site : 09CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_C139;2441MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	27.69	-12.31	40.00	39.52	18.95	0.64	31.43	---	---	Peak
2	39.2	23.36	-16.64	40.00	39.84	14.03	0.70	31.21	---	---	Peak
3	125.0	34.54	-8.96	43.50	51.76	12.66	1.21	31.09	100	183	Peak
4	782.3	25.05	-20.95	46.00	32.52	19.66	3.38	30.50	---	---	Peak
5	878.9	25.35	-20.65	46.00	31.63	20.38	3.73	30.39	---	---	Peak
6	985.3	26.44	-27.56	54.00	31.59	21.14	3.99	30.27	---	---	Peak



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHF-EHF HORN HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Wac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_C139;2441MHz  
 Data Rate : 3DH1  
 Plane : E1

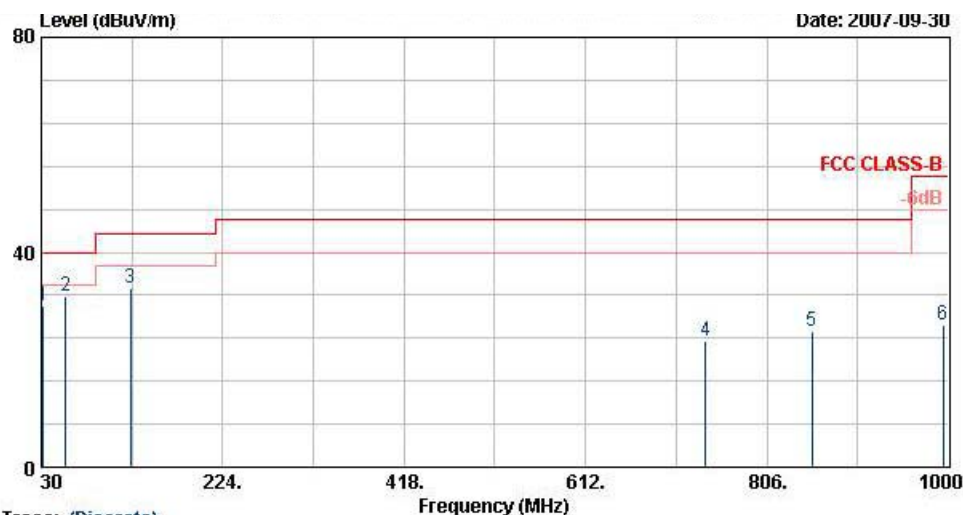
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2388.0	52.99	-21.01	74.00	54.42	30.26	3.75	35.44	100	0 Peak
2	2388.0	40.01	-13.99	54.00	41.44	30.26	3.75	35.44	100	351 Average
3 X	2441.0	97.39			98.77	30.28	3.82	35.47	100	0 Peak
4 X	2441.0	66.68			68.08	30.28	3.82	35.49	100	351 Average
5	2494.0	51.97	-22.03	74.00	53.32	30.30	3.88	35.53	100	0 Peak
6	2494.0	39.69	-14.31	54.00	41.04	30.30	3.88	35.53	100	351 Average
7	7956.0	56.77	-17.23	74.00	45.33	39.53	7.78	35.86	100	0 Peak
8	7956.0	44.54	-9.46	54.00	33.09	39.53	7.78	35.86	100	139 Average

Remark: #3 and #4 Fundamental Signal



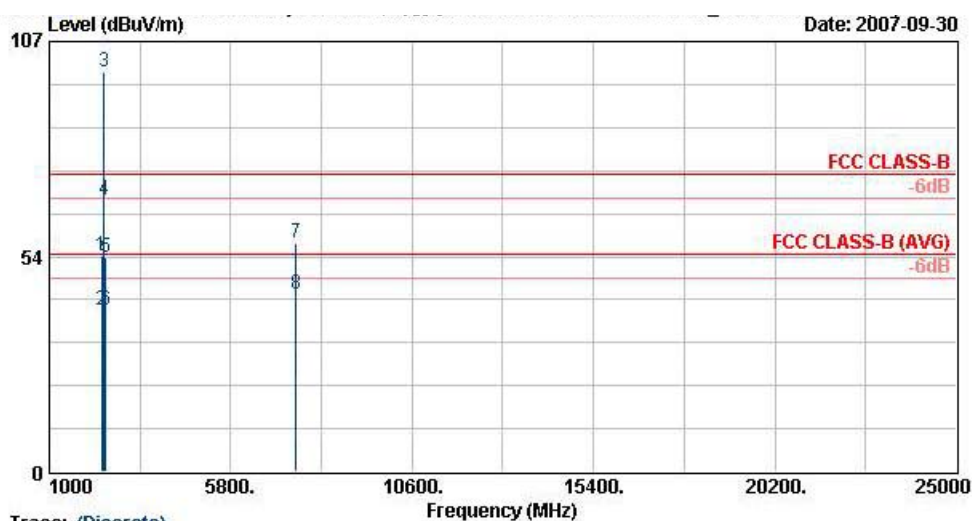
Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_C139;2441MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.4	29.92	-10.08	40.00	43.08	17.54	0.66	31.36	---	---
2	56.2	31.74	-8.26	40.00	54.86	7.20	0.83	31.16	100	208
3	125.0	33.37	-10.13	43.50	50.59	12.66	1.21	31.09	---	---
4	740.3	23.55	-22.45	46.00	31.52	19.26	3.31	30.54	---	---
5	854.4	25.32	-20.68	46.00	31.91	20.21	3.63	30.42	---	---
6	994.4	26.60	-27.40	54.00	31.67	21.20	4.01	30.27	---	---



## Trace: (Discrete)

Site : 09CHD6-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HS-DS-SS 850/1900/2100 PDA Phone  
 Power : 120Wac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_C139;2441MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.0	53.66	-20.34	74.00	55.09	30.26	3.75	35.44	100	0 Peak
2	2388.0	40.00	-14.00	54.00	41.43	30.26	3.75	35.44	103	25 Average
3 @	2441.0	99.49			100.87	30.28	3.82	35.47	100	0 Peak
4 X	2441.0	67.71			69.11	30.28	3.82	35.49	103	25 Average
5	2494.0	53.45	-20.55	74.00	54.79	30.30	3.88	35.53	100	0 Peak
6	2494.0	40.14	-13.86	54.00	41.49	30.30	3.88	35.53	103	25 Average
7	7521.0	56.83	-17.17	74.00	46.31	38.95	7.62	36.05	100	0 Peak
8	7521.0	44.16	-9.84	54.00	33.64	38.95	7.62	36.05	100	146 Average

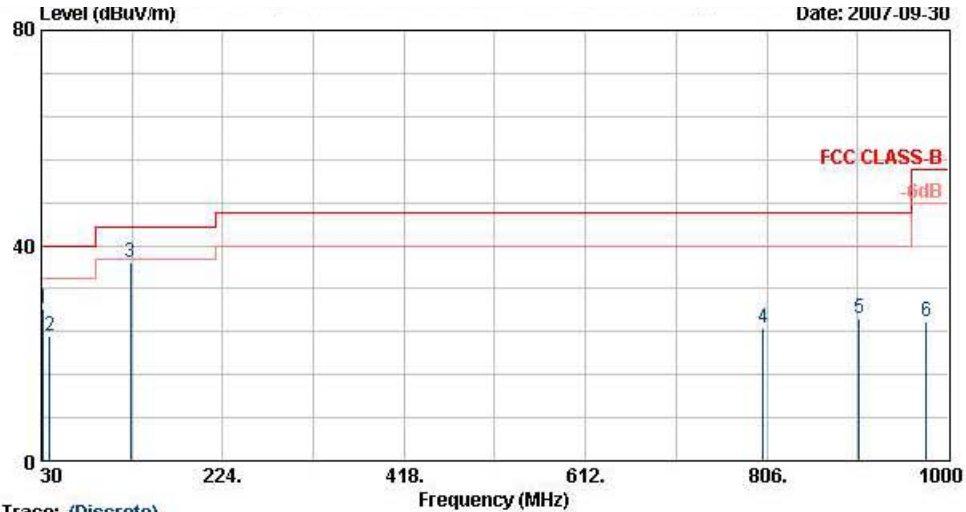
Remark: #3 and #4 Fundamental Signal



Test Mode : Mode 15

Polarization : Horizontal

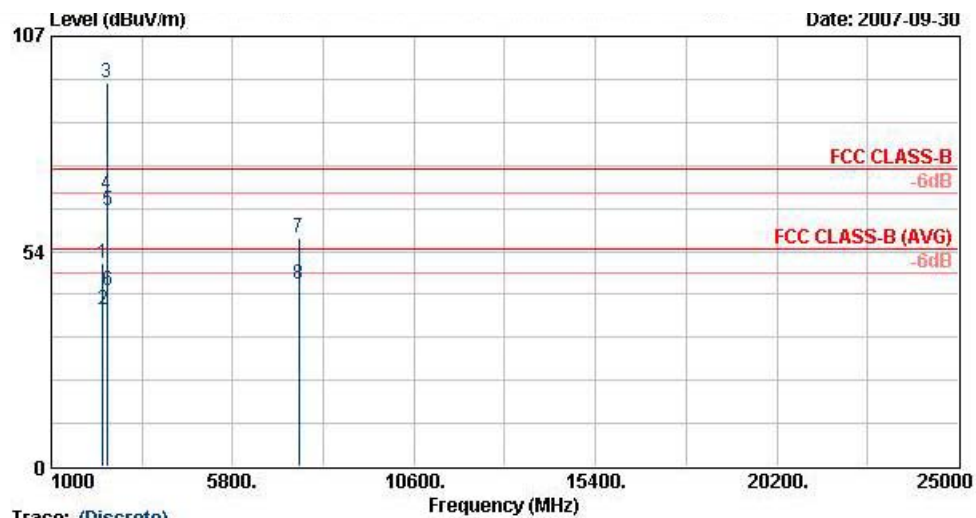
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78;2480MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.4	28.25	-11.75	40.00	41.40	17.54	0.66	31.36	---	---	Peak
2	39.2	23.15	-16.85	40.00	39.63	14.03	0.70	31.21	---	---	Peak
3	125.0	36.86	-6.64	43.50	54.08	12.66	1.21	31.09	100	102	Peak
4	801.9	24.58	-21.42	46.00	31.82	19.83	3.42	30.49	---	---	Peak
5	904.8	26.36	-19.64	46.00	32.33	20.56	3.83	30.36	---	---	Peak
6	976.9	25.82	-28.18	54.00	31.04	21.07	3.97	30.27	---	---	Peak



Trace: (Discrete)  
Site : 03CHD6-HY  
Condition : SHF-EHF HORN HORIZONTAL  
EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
: /HSDPA 850/1900/2100 PDA Phone  
Power : 120Vac/60Hz  
Model : FR 761327-04  
Memo : BT Tx\_C178;2480MHz  
Data Rate : 3DH1  
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2368.0	50.32	-23.68	74.00	51.79	30.24	3.73	35.44	100	0 Peak
2	2368.0	39.13	-14.87	54.00	40.59	30.24	3.73	35.44	100	355 Average
3 X	2480.0	95.49			96.85	30.29	3.86	35.51	100	0 Peak
4 X	2480.0	67.48			68.84	30.29	3.86	35.51	100	355 Average
5	2483.5	63.46	-10.54	74.00	64.82	30.29	3.86	35.51	100	0 Peak
6	2483.5	43.85	-10.15	54.00	45.21	30.29	3.86	35.51	100	355 Average
7	7557.0	57.06	-16.94	74.00	46.47	38.99	7.63	36.04	100	0 Peak
8	7557.0	45.15	-8.85	54.00	34.56	38.99	7.63	36.04	100	256 Average

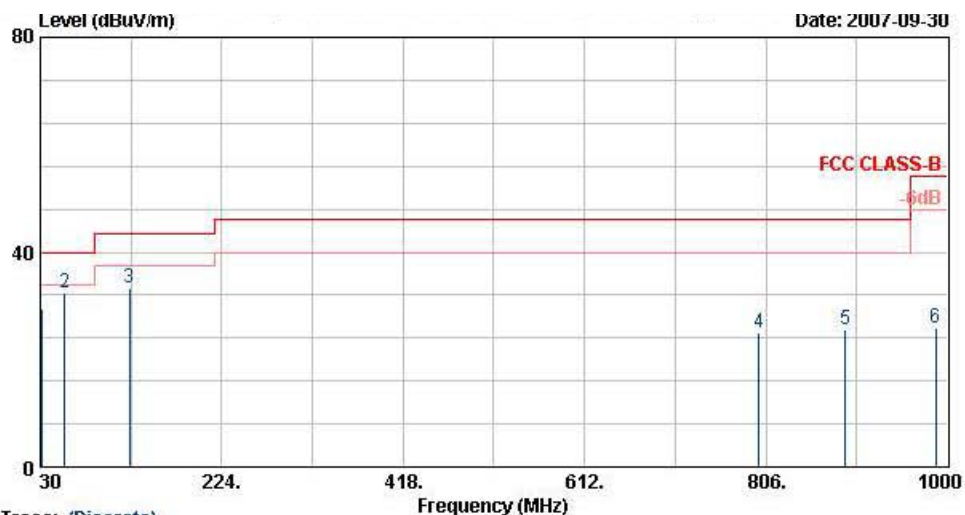
Remark: #3 and #4 Fundamental Signal





Polarization : Vertical

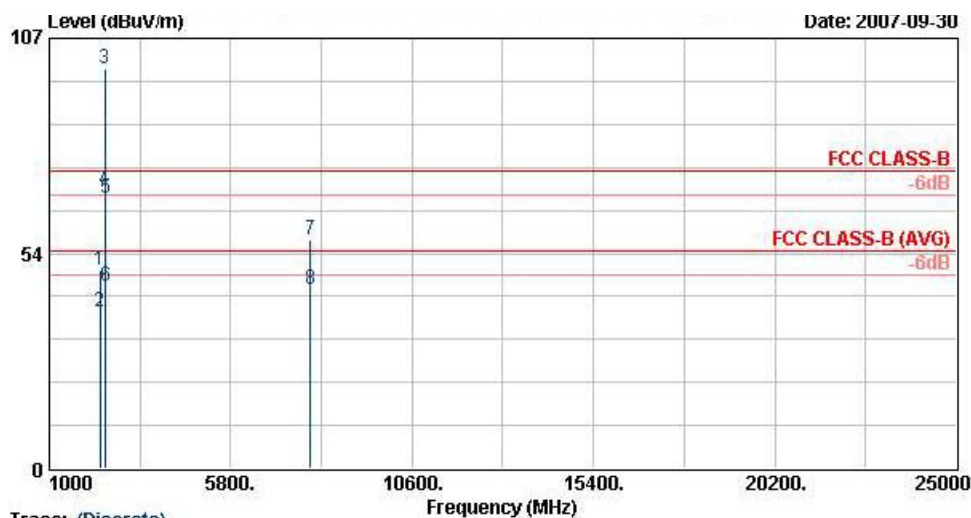
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_C178;2480MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	31.1	29.30	-10.70	40.00	41.13	18.95	0.64	31.43	---	Peak
2	56.2	32.56	-7.44	40.00	55.68	7.20	0.83	31.16	100	Peak
3	125.0	33.20	-10.30	43.50	50.42	12.66	1.21	31.09	---	Peak
4	798.4	25.02	-20.98	46.00	32.31	19.80	3.41	30.49	---	Peak
5	890.8	25.64	-20.36	46.00	31.78	20.46	3.78	30.38	---	Peak
6	987.4	25.86	-28.14	54.00	30.98	21.15	3.99	30.27	---	Peak



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : SHF-EHF HORN VERTICAL  
 EUT : GSM/EDGE 850/900/1800/1900 WCDMA  
 : /HSDPA 850/1900/2100 PDA Phone  
 Power : 120Vac/60Hz  
 Model : FR 761327-04  
 Memo : BT Tx\_Ck78;2480MHz  
 Data Rate : 3DH1  
 Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2344.0	49.42	-24.58	74.00	50.90	30.24	3.71	35.42	100	0 Peak
2	2344.0	39.03	-14.97	54.00	40.51	30.24	3.71	35.42	100	23 Average
3 @	2480.0	99.43			100.79	30.29	3.86	35.51	100	0 Peak
4 X	2480.0	69.21			70.57	30.29	3.86	35.51	100	23 Average
5	2483.5	67.32	-6.68	74.00	68.68	30.29	3.86	35.51	100	0 Peak
6	2483.5	45.54	-8.46	54.00	46.90	30.29	3.86	35.51	100	23 Average
7	7917.0	56.88	-17.12	74.00	45.51	39.48	7.76	35.88	100	0 Peak
8	7917.0	44.64	-9.36	54.00	33.27	39.48	7.76	35.88	100	216 Average

Remark: #3 and #4 Fundamental Signal

## **5.12 Antenna Requirements**

### **5.12.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### **5.12.2 Antenna Connected Construction**

The antennas used in this product are PIFA Antenna for WLAN and FPC antenna for BT without connector and it is considered to meet antenna requirement of FCC.

### **5.12.3 Antenna Gain**

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2007	Oct. 04, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 2007	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)

## 7. Uncertainty Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
<b>Combined standard uncertainty Uc(y)</b>	<b>1.13</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.26</b>		

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.11	Normal(k=2)	0.06
Antenna factor calibration	0.91	Normal(k=2)	0.46
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.15	Normal(k=2)	0.08
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.52	Rectangular	0.88
Mismatch	+0.45/-0.48	U-shaped	0.33
<b>Combined standard uncertainty Uc(y)</b>	<b>1.30</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.60</b>		

The measured result is :  $y \text{ dBuV} \pm U \text{ dB}$

for a level of confidence of approximately 95% , ( k= 2 )

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

Contribution	Uncertainty of $x_i$		$u(x_i)$	$C_i$	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
<b>Combined standard uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>	<b>4.72</b>				

The measured result is :  $y$  dBuV  $\pm U$  dB

for a level of confidence of approximately 95% , (  $k = 2$  )