

2.5 Measurement Result

Channel	Frequency (MHz)	A. P. (H/V)	Amplitude (dB μ V/m)	E.R.P. (mW)
01	462.5625	H	103.01	5.999
		V	121.12	388.259
14	467.7125	H	103.02	6.013
		V	119.68	278.690

The maximum field measured is 121.00 dB μ V/m

$$FI \text{ (Volt)} = 10^{121.12/20} \times 10^{-6} = 1.13763 \text{ V}$$

$$FI \text{ (mW)} = (1.13763 \times 3)^2 / 30 = 388.259 \text{ mW} = 0.388259 \text{ W}$$

$$43 + 10 \log CP = 43 + 10 \log 0.388259 \\ = 38.89$$

New limit

$$121.12 - 38.89 = 82.23$$

5.5 Measurement Result (CH01): (Horizontal for 30 MHz ~ 1 GHz)

Test Conditions:

Testing room : Temperature : 26 °C Humidity : 73 % RH

Testing site : Temperature : 31 °C Humidity : 75 % RH

Frequency	Reading Amplitude	Ant. Height	Table	Correction Factors	Corrected Amplitude	Limit	Margin
MHz	dBμV	m	degree	dB/m	dBμV/m	dBμV/m	dB
231.270	48.95	1.00	87	-12.73	61.68	82.23	-20.55
925.110	28.93	1.94	24	-28.18	57.11	82.23	-25.12

Note:

1. Margin = Amplitude - limit, *if margin is minus means under limit.*
2. Corrected Amplitude = Reading Amplitude – Correction Factors
3. Correction factor = Antenna factor + Cable Loss – Amplitude gain
(For example : 30MHz correction factor = 15.5 – (–15.26) = 30.76 dB/m)
4. Attenuation required = 43 + 10 log (0.388 W) = 38.89
Limit = 121.12 – 38.89 = 82.23

Report No.: G1515923, walkie-talkie, FCC Part 95, Subpart B – Certification

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Measurement Result (CH01): (Horizontal for 1 GHz ~ 18 GHz)

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 m)	
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (cm)	Table (°)	(dB)	(dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1.84	72.23	100.00	88	-8.67	63.56	82.23	-18.67
2.30	61.13	100.00	147	-8.67	52.46	82.23	-29.77
2.76	64.47	100.00	310	-6.84	57.63	82.23	-24.60
3.24	65.97	100.00	81	-6.84	59.13	82.23	-23.10
3.69	67.60	100.00	290	-5.64	61.96	82.23	-20.27
4.16	69.10	100.00	157	-5.64	63.46	82.23	-18.77
4.61	55.22	100.00	102	3.91	59.13	82.23	-23.10
5.08	54.22	100.00	331	3.91	58.13	82.23	-24.10
5.55	45.74	100.00	7	9.72	55.46	82.23	-26.77
6.00	44.07	100.00	208	9.72	53.79	82.23	-28.44
6.47	38.57	100.00	35	9.72	48.29	82.23	-33.94
6.94	35.41	100.00	2	9.72	45.13	82.23	-37.10
7.40	38.24	100.00	231	9.72	47.96	82.23	-34.27
7.86	35.07	100.00	227	9.72	44.79	82.23	-37.44
8.82	34.41	100.00	328	9.72	44.13	82.23	-38.10
9.24	36.07	100.00	95	9.72	45.79	82.23	-36.44

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected

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Measurement Result (CH01): (Vertical for 1 GHz ~ 18 GHz)

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 m)	
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (cm)	Table (°)	(dB)	(dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1.84	72.23	100.00	211	-8.67	63.56	82.23	-18.67
2.30	61.13	100.00	181	-8.67	52.46	82.23	-29.77
2.76	64.47	100.00	71	-6.84	57.63	82.23	-24.60
3.24	65.97	100.00	318	-6.84	59.13	82.23	-23.10
3.69	67.60	100.00	94	-5.64	61.96	82.23	-20.27
4.16	69.10	100.00	5	-5.64	63.46	82.23	-18.77
4.61	55.22	100.00	172	3.91	59.13	82.23	-23.10
5.08	54.22	100.00	327	3.91	58.13	82.23	-24.10
5.55	45.74	100.00	135	9.72	55.46	82.23	-26.77
6.00	44.07	100.00	18	9.72	53.79	82.23	-28.44
6.47	38.57	100.00	229	9.72	48.29	82.23	-33.94
6.94	35.41	100.00	330	9.72	45.13	82.23	-37.10
7.40	38.24	100.00	192	9.72	47.96	82.23	-34.27
7.86	35.07	100.00	328	9.72	44.79	82.23	-37.44
8.82	34.41	100.00	201	9.72	44.13	82.23	-38.10
9.24	36.07	100.00	90	9.72	45.79	82.23	-36.44

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Measurement Result (CH14): (Horizontal for 1 GHz ~ 18 GHz)

Radiated Emission				Correction Factors	Corrected	FCC Class B (3 m)	
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (cm)	Table (°)	(dB)	Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1.86	65.30	100.00	91	-8.67	56.63	82.23	-25.60
2.35	64.96	100.00	334	-8.67	56.29	82.23	-25.94
2.78	63.30	100.00	208	-6.84	56.46	82.23	-25.77
3.27	67.13	100.00	52	-6.84	60.29	82.23	-21.94
3.73	68.27	100.00	274	-5.64	62.63	82.23	-19.60
4.20	66.77	100.00	114	-5.64	61.13	82.23	-21.10
4.67	48.38	100.00	207	3.91	52.29	82.23	-29.94
5.14	53.55	100.00	308	3.91	57.46	82.23	-24.77
5.60	41.41	100.00	208	9.72	51.13	82.23	-31.10
6.07	40.41	100.00	29	9.72	50.13	82.23	-32.10
6.54	32.41	100.00	336	9.72	42.13	82.23	-40.10
7.01	33.24	100.00	272	9.72	42.96	82.23	-39.27
7.49	36.24	100.00	300	9.72	45.96	82.23	-36.27
7.94	34.41	100.00	341	9.72	44.13	82.23	-38.10
8.41	43.95	100.00	195	9.72	53.67	82.23	-28.56
8.89	40.95	100.00	105	9.72	50.67	82.23	-31.56

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Measurement Result (CH14): (Vertical for 1 GHz ~ 18 GHz)

Radiated Emission				Correction Factors	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dB μ V/m)	Margin (dB)
1.86	76.96	100.00	277	-8.67	68.29	82.23	-13.94
2.35	60.46	100.00	108	-8.67	51.79	82.23	-30.44
2.78	59.97	100.00	174	-6.84	53.13	82.23	-29.10
3.27	63.97	100.00	128	-6.84	57.13	82.23	-25.10
3.73	63.27	100.00	331	-5.64	57.63	82.23	-24.60
4.20	66.60	100.00	224	-5.64	60.96	82.23	-21.27
4.67	42.22	100.00	265	3.91	46.13	82.23	-36.10
5.14	47.22	100.00	75	3.91	51.13	82.23	-31.10
5.60	45.41	100.00	37	9.72	55.13	82.23	-27.10
6.07	38.91	100.00	246	9.72	48.63	82.23	-33.60
6.54	36.41	100.00	162	9.72	46.13	82.23	-36.10
7.01	33.07	100.00	94	9.72	42.79	82.23	-39.44
7.49	39.07	100.00	154	9.72	48.79	82.23	-33.44
7.94	39.24	100.00	329	9.72	48.96	82.23	-33.27

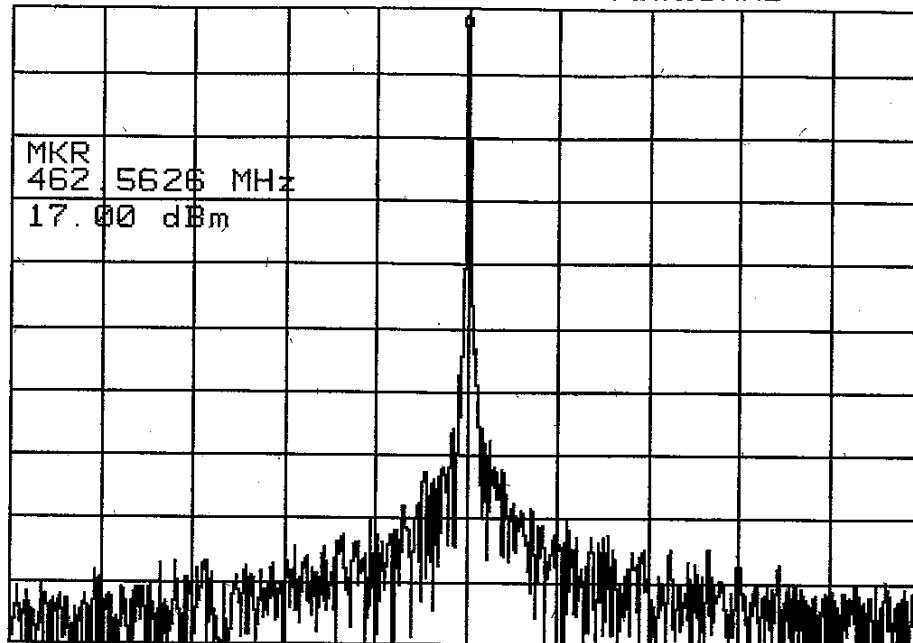
*ATTEN 30dB

RL 20.0dBm

10dB/

MKR 17.00dBm

462.5626MHz



CH1

SPAN : 100 kHz

CENTER 462.5626MHz

SPAN 100.0kHz

*RBW 100Hz

VBW 100Hz

SWP 8.00sec

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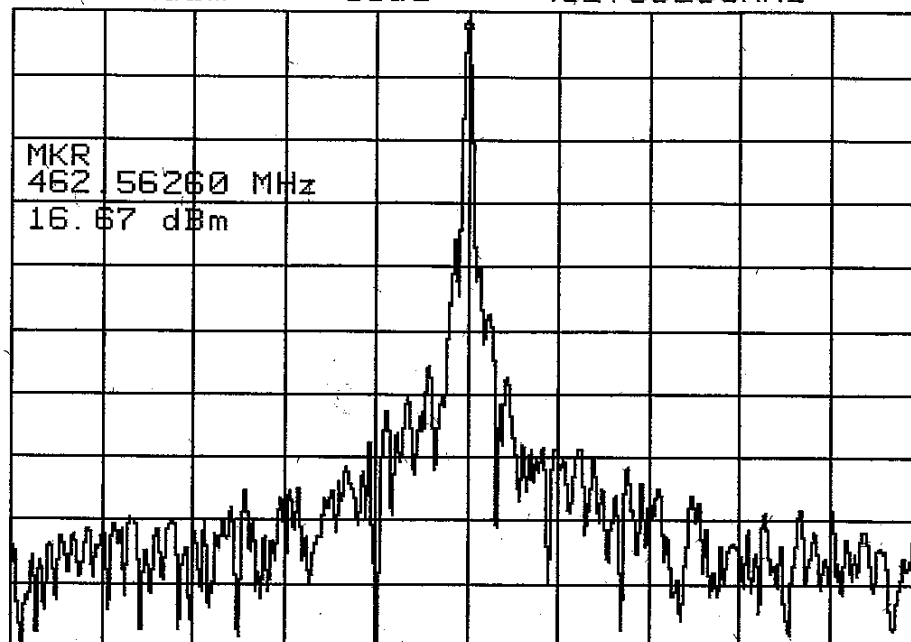
*ATTEN 30dB

RL 20.0dBm

10dB/

MKR 16.67dBm

462.56260MHz



CENTER 462.56260MHz
*RBW 100Hz VBW 100Hz

SPAN 20.00kHz
SWP 1.60sec

SPAN 20kHz

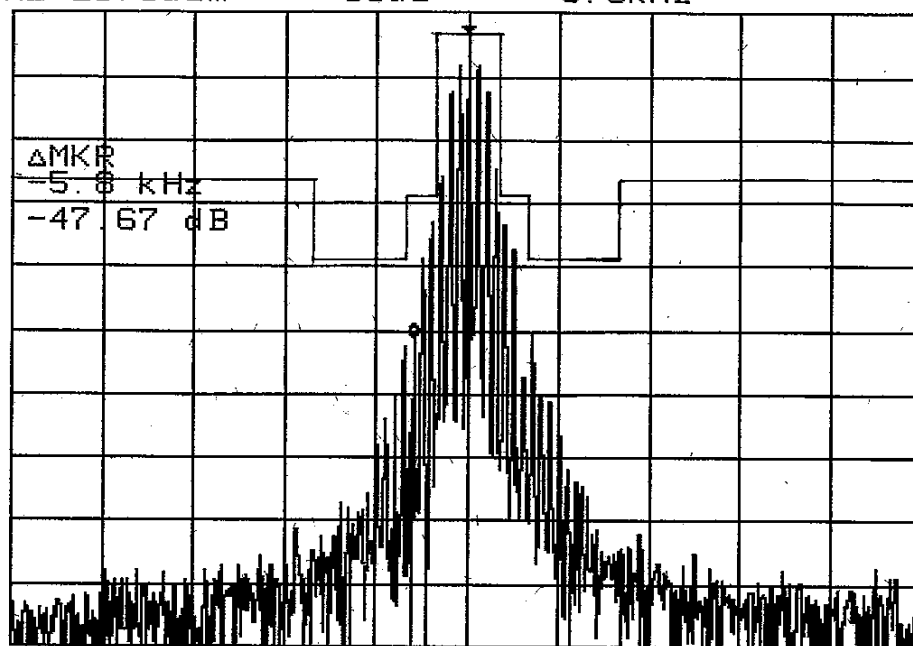
*ATTEN 30dB

RL 20.0dBm

10dB/

ΔMKR -47.67dB

-5.8kHz



CENTER 462.5626MHz

*RBW 100Hz

VBW 100Hz

SPAN 100.0kHz

SWP 8.00sec

SPAN : 100 kHz

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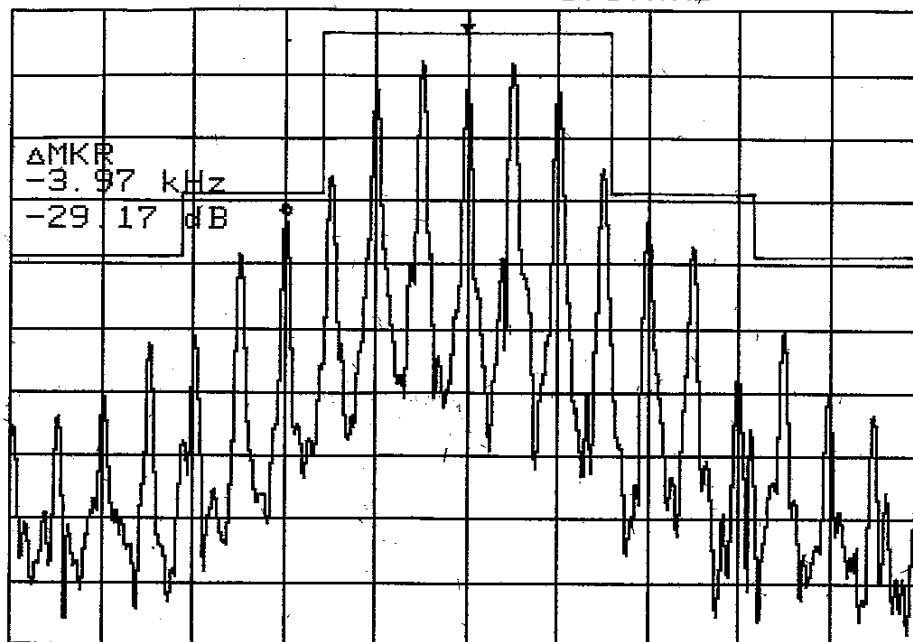
*ATTEN 30dB

RL 20.0dBm

10dB/

ΔMKR -29.17dB

-3.97kHz



CENTER 462.56260MHz

*RBW 100Hz

VBW 100Hz

SPAN 20.00kHz

SWP 1.60sec

SPAN 20kHz

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