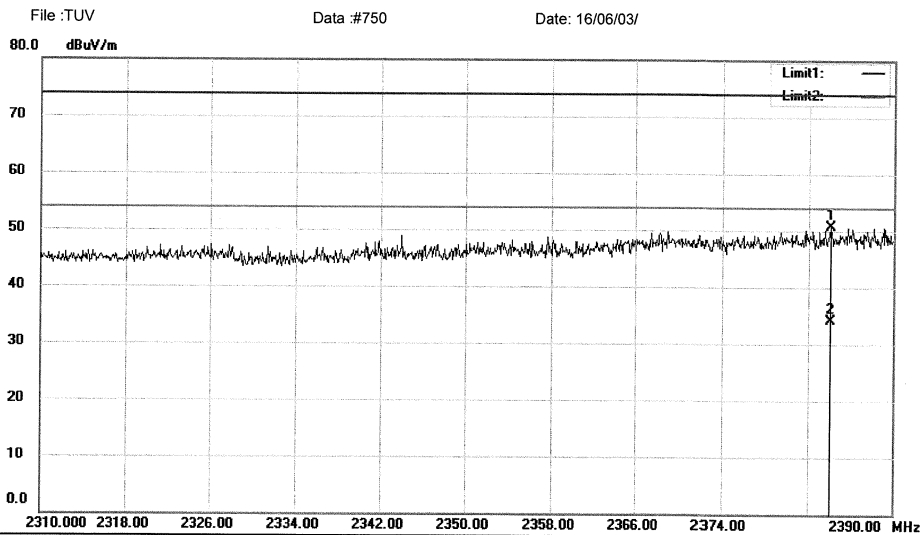


Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:DQPSK 2402
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2384.080	43.04	7.57	50.61	74.00	-23.39	peak		
2	*	2384.080	26.63	7.57	34.20	54.00	-19.80	AVG		

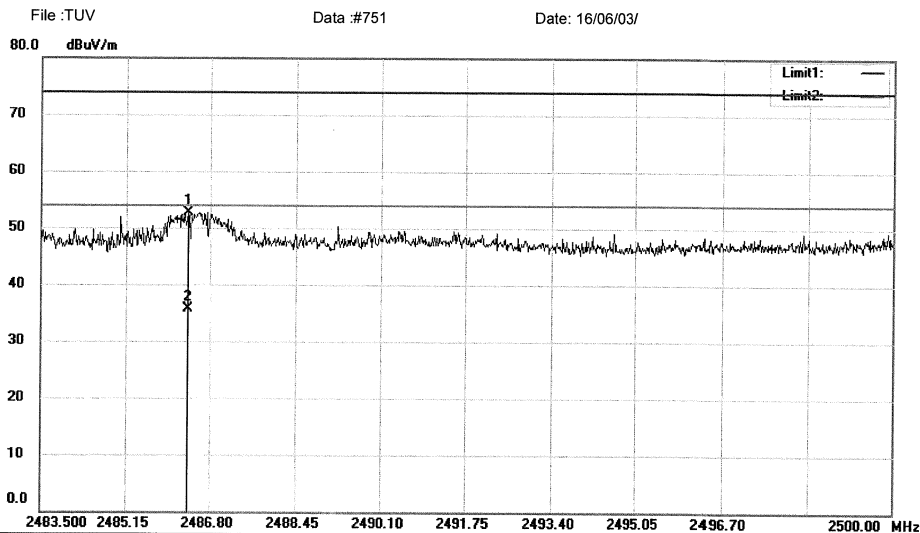
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data :#750

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:DQPSK 2480
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2486.371	44.38	8.31	52.69	74.00	-21.31	peak		
2	*	2486.371	27.39	8.31	35.70	54.00	-18.30	AVG		

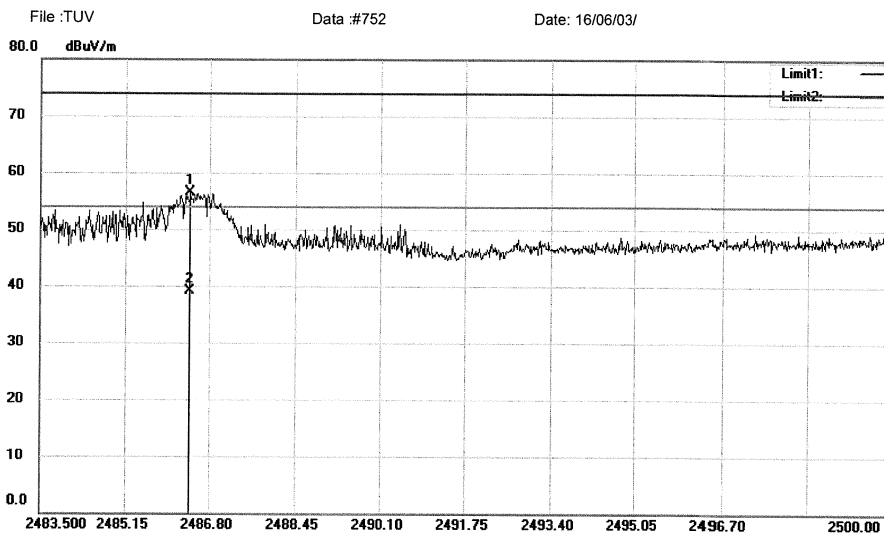
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data :#751

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: DQPSK 2480
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2486.421	48.26	8.31	56.57	74.00	-17.43	peak		
2	*	2486.421	30.79	8.31	39.10	54.00	-14.90	AVG		

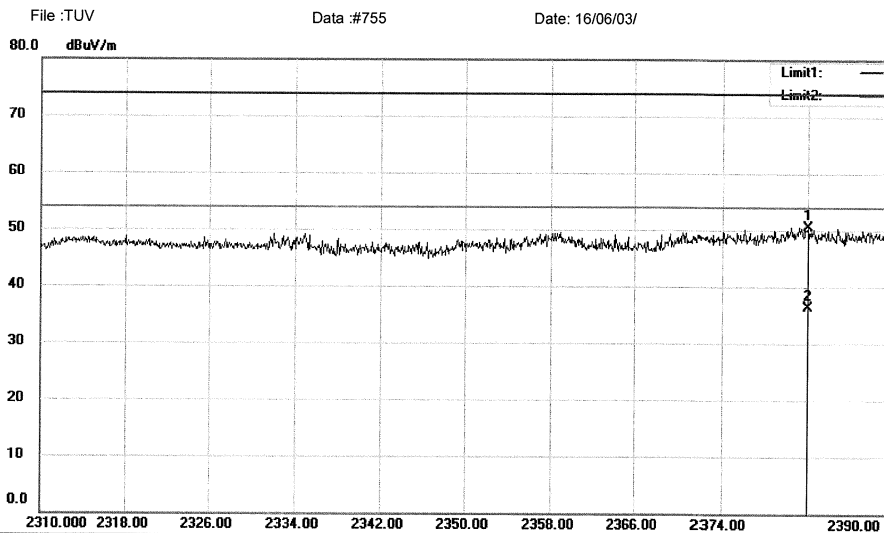
*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV\Data : #752

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: 8DPSK 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2382.080	43.04	7.55	50.59	74.00	-23.41	peak		
2	*	2382.080	28.75	7.55	36.30	54.00	-17.70	AVG		

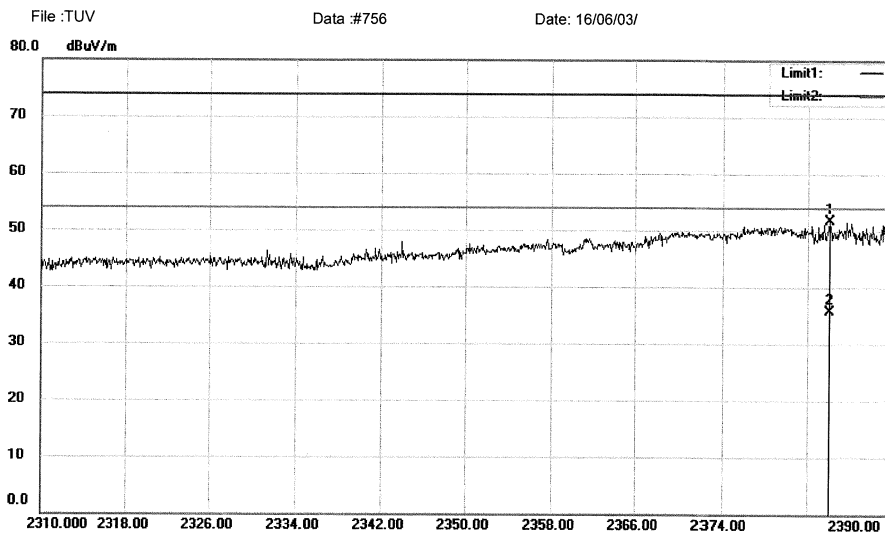
*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUV\Data: #755

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:8DPSK 2402

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2384.080	44.04	7.57	51.61	74.00	-22.39	peak		
2	*	2384.080	28.13	7.57	35.70	54.00	-18.30	AVG		

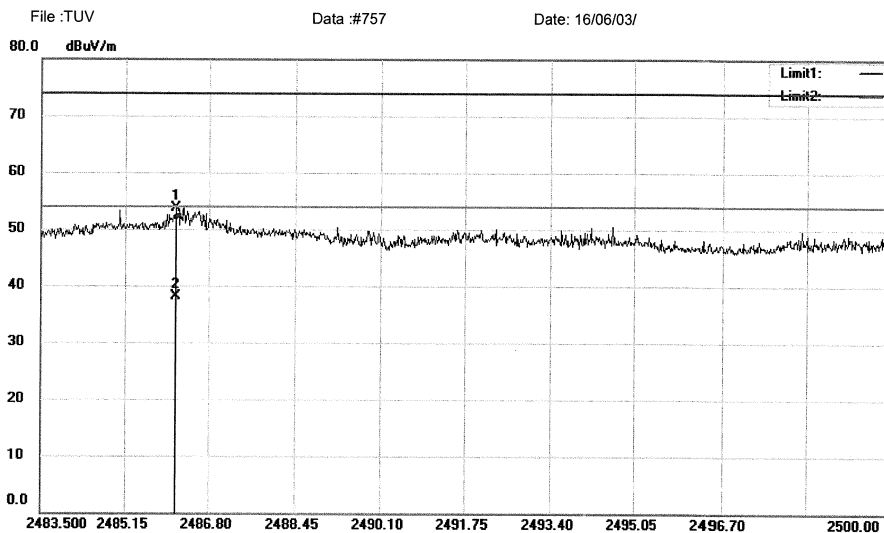
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#756

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:8DPSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2486.157	45.35	8.30	53.65	74.00	-20.35	peak		
2	*	2486.157	29.90	8.30	38.20	54.00	-15.80	AVG		

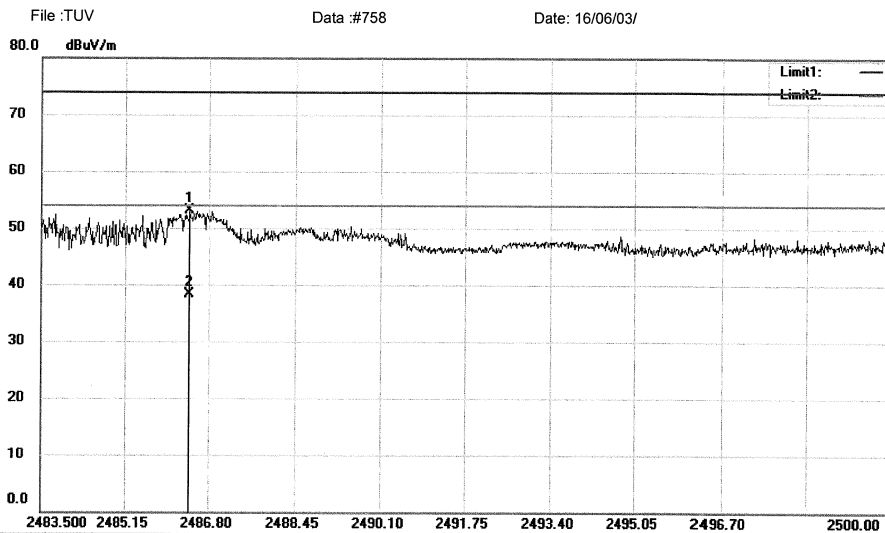
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data :#757

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:8DPSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		2486.421	44.76	8.31	53.07	74.00	-20.93	peak		
2	*	2486.421	30.09	8.31	38.40	54.00	-15.60	AVG		

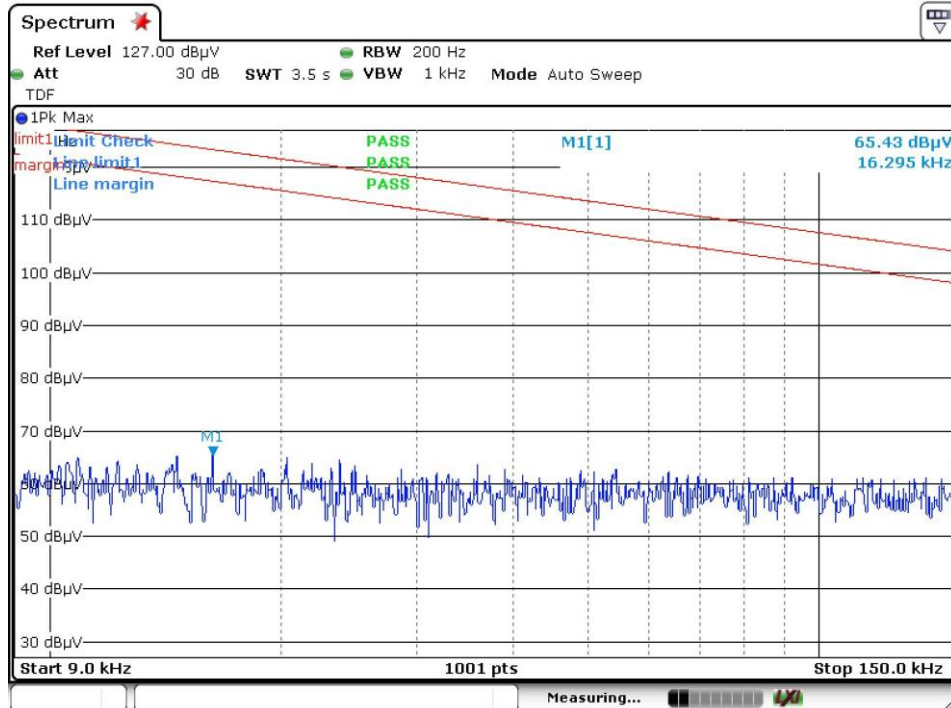
*:Maximum data x:Over limit !:over margin

Operator: KK

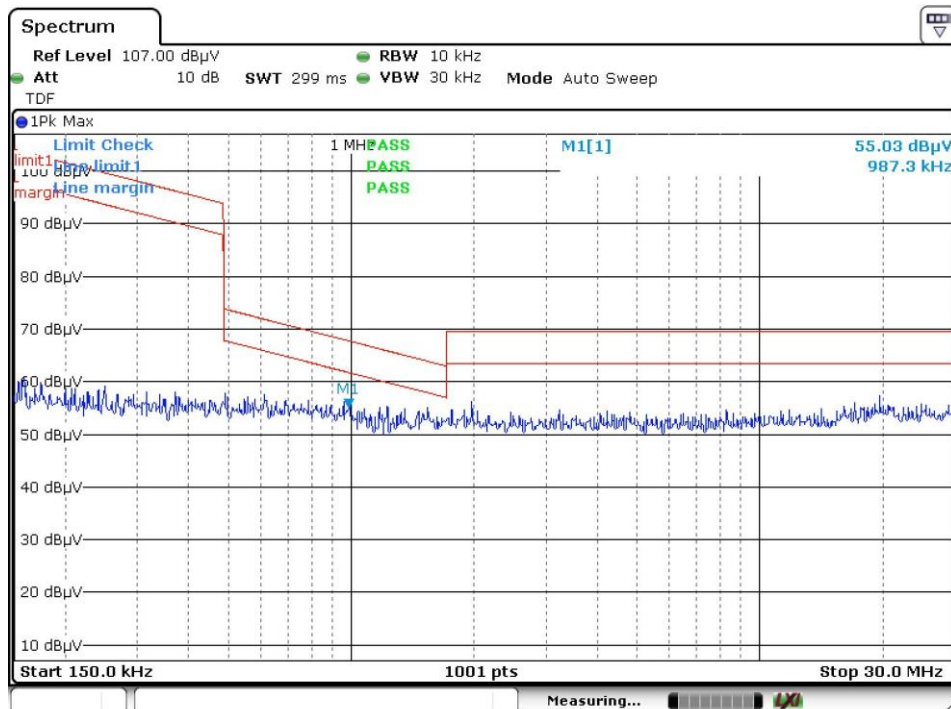
File :TUV\Data :#758

Page: 1

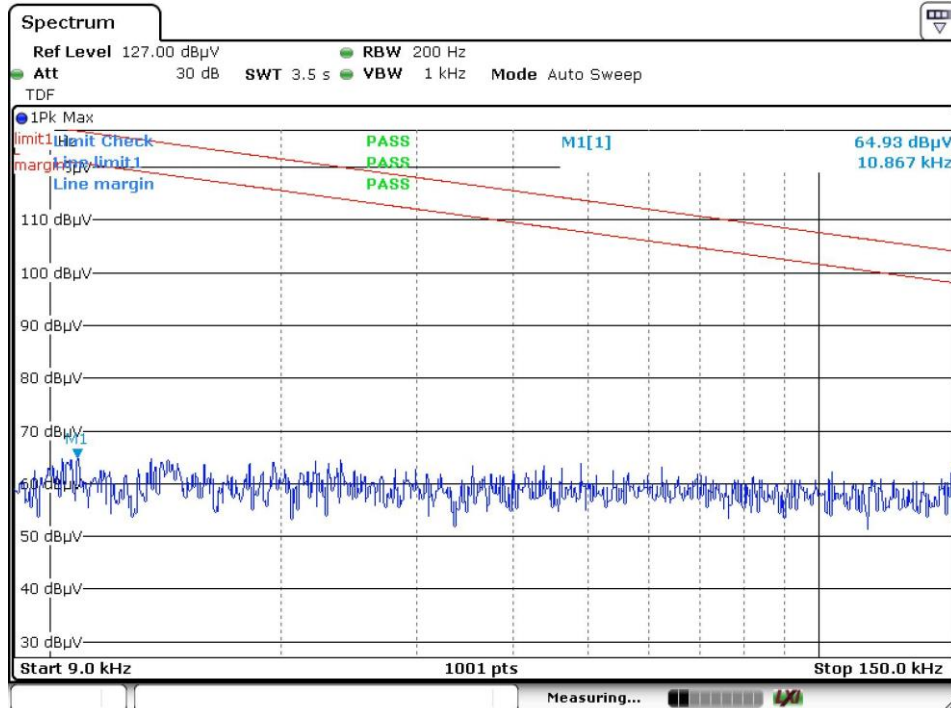
Test Plot of 2402MHz-X of Low Energy mode



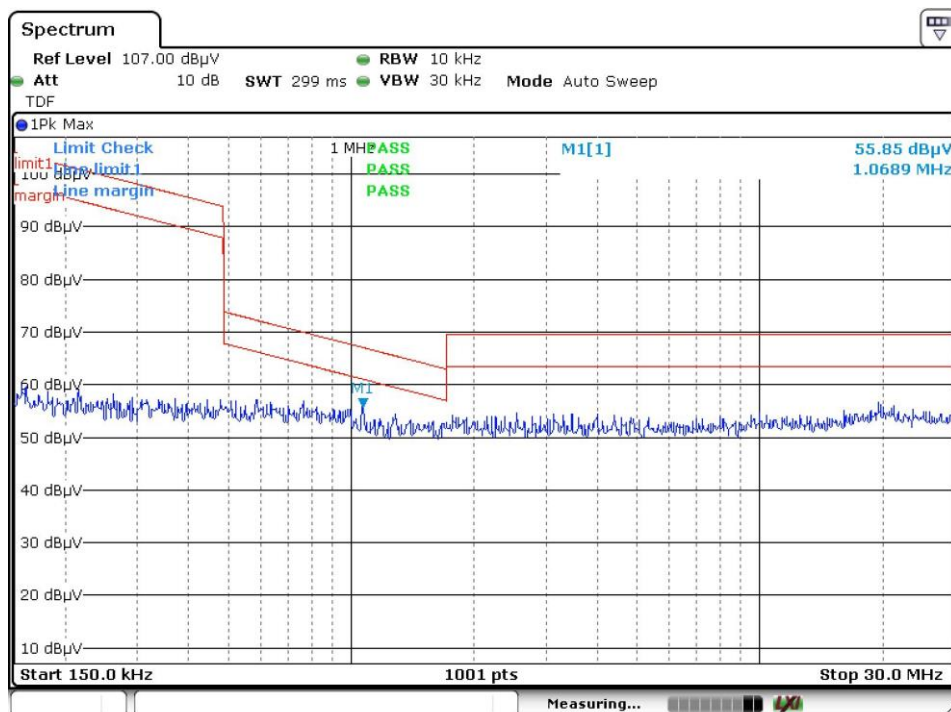
P



P

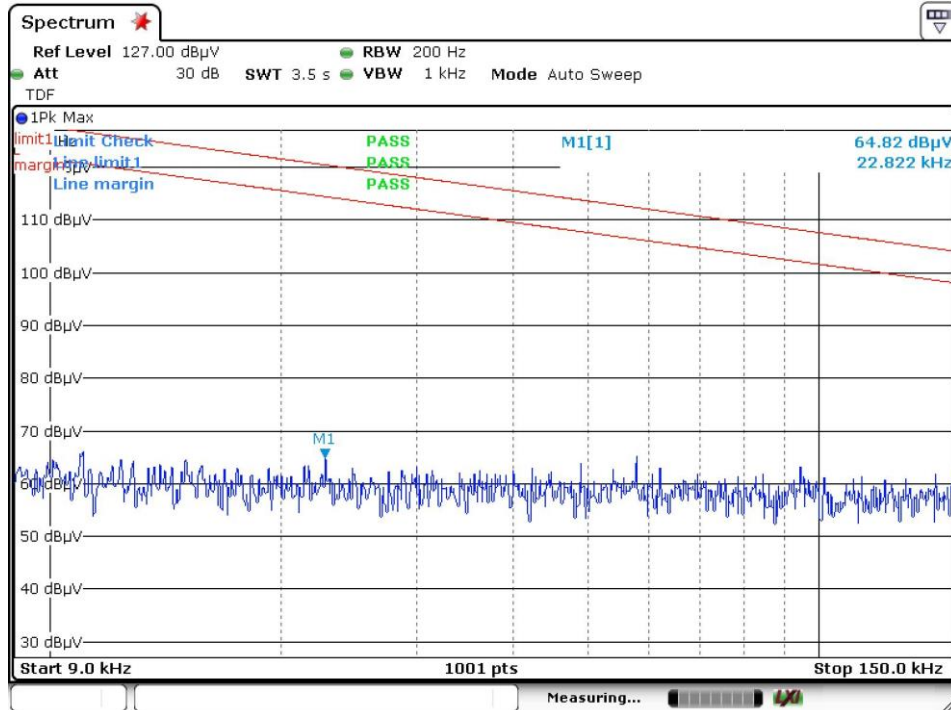
Test Plot of 2402MHz-Y of Low Energy mode


P

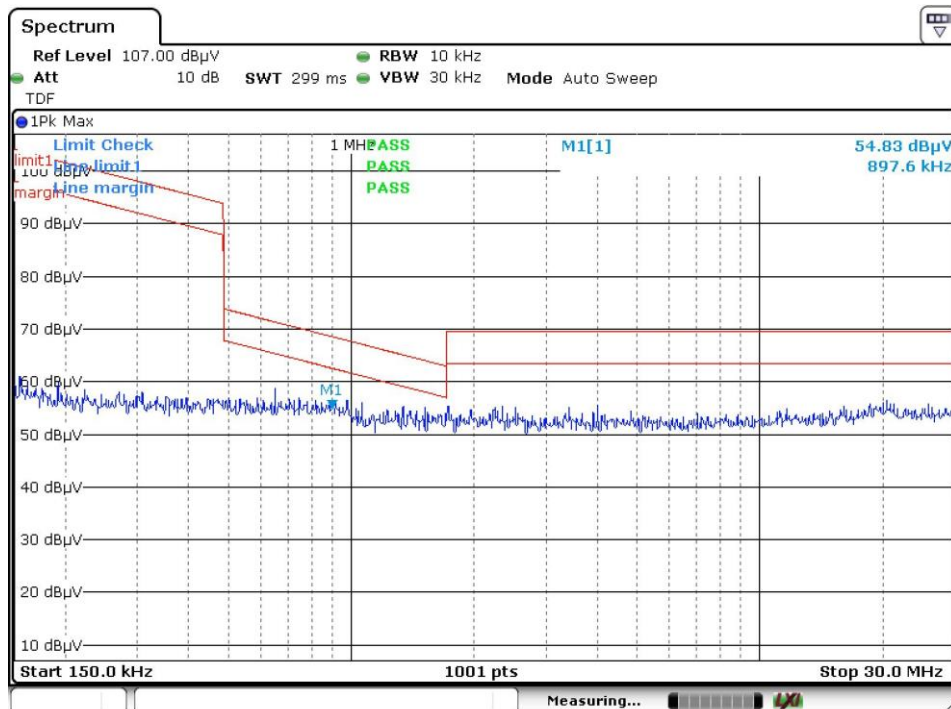


P

Test Plot of 2402MHz-Z of Low Energy mode

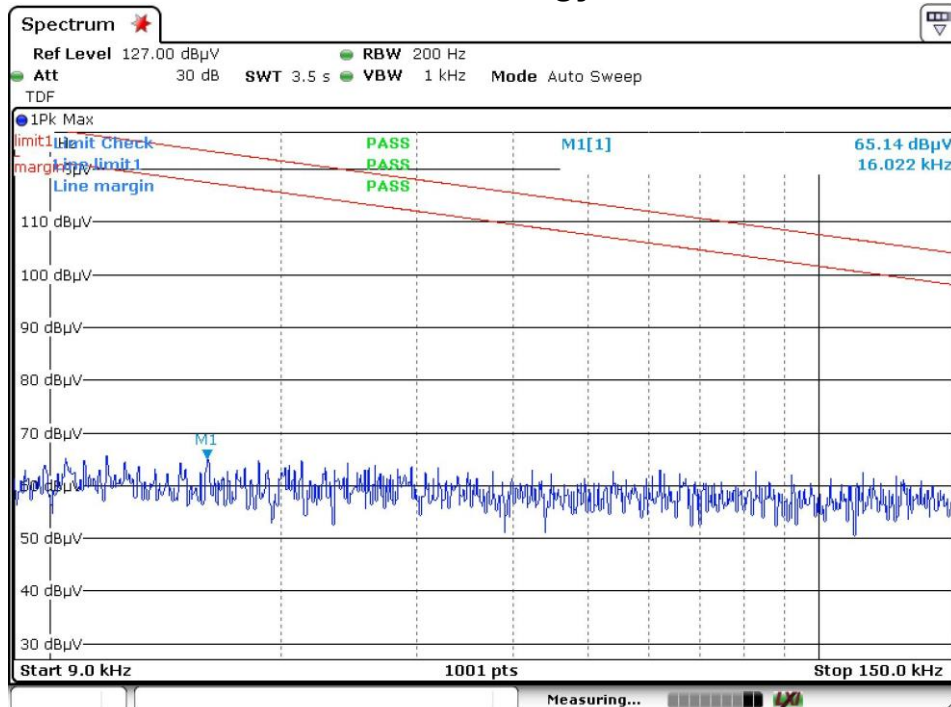


P

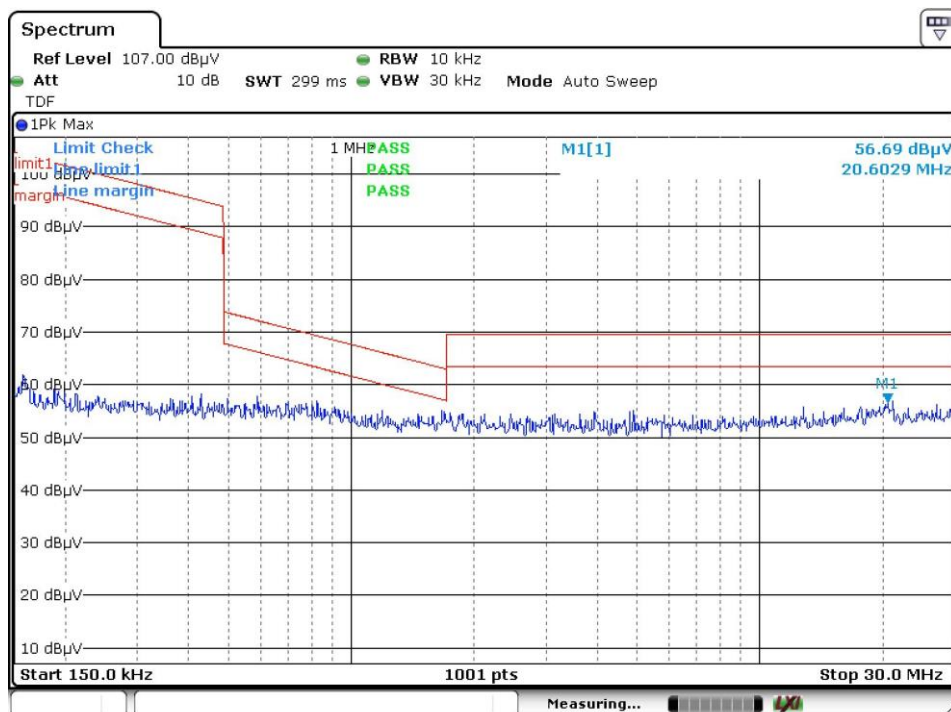


P

Test Plot of 2440MHz-X of Low Energy mode

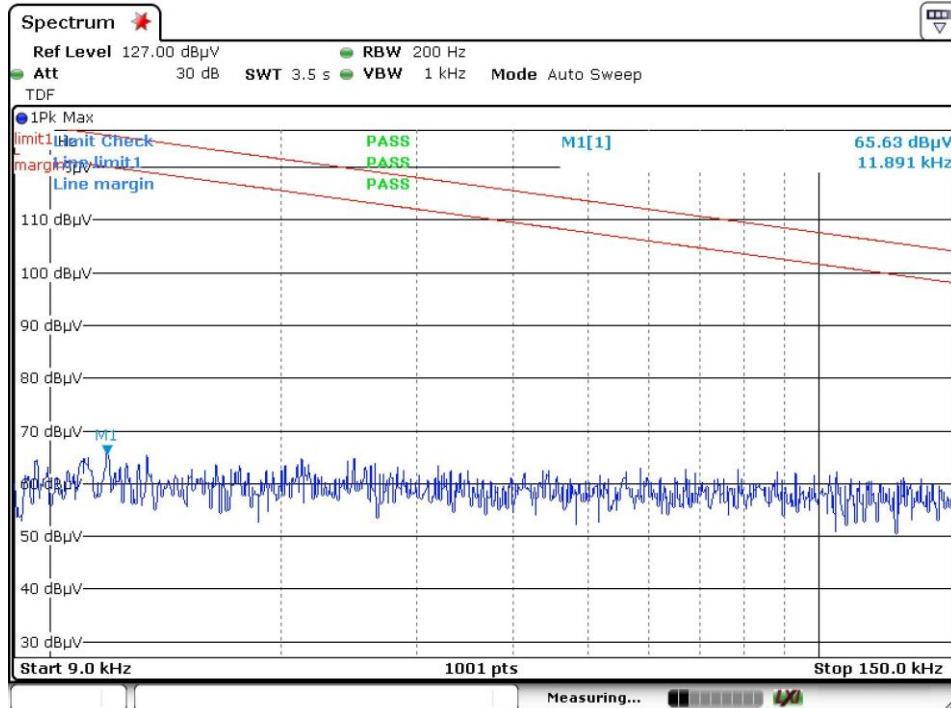


P

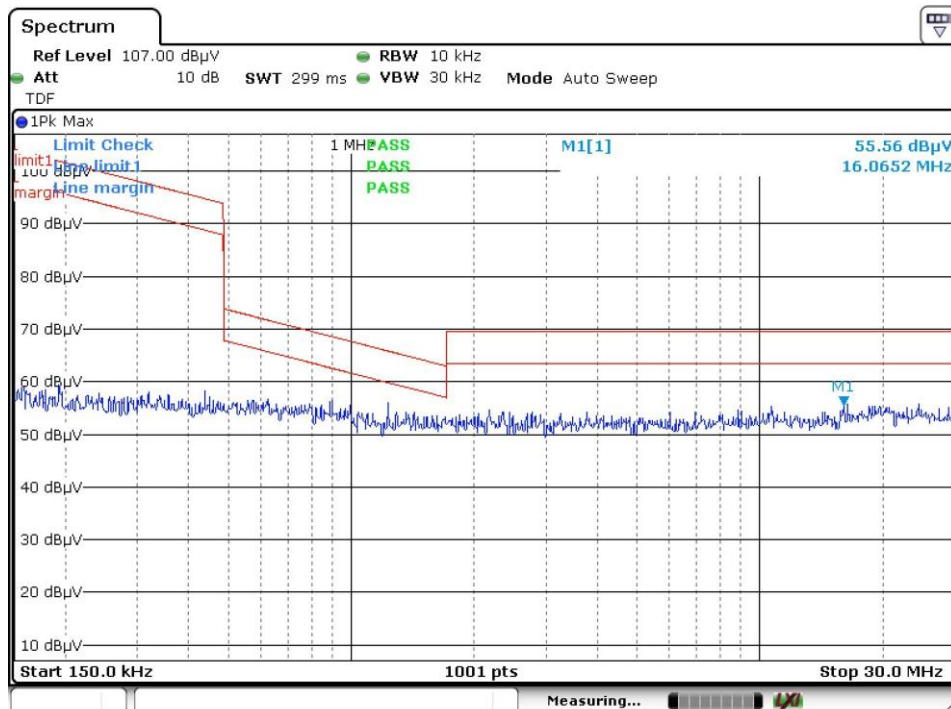


P

Test Plot of 2440MHz-Y of Low Energy mode

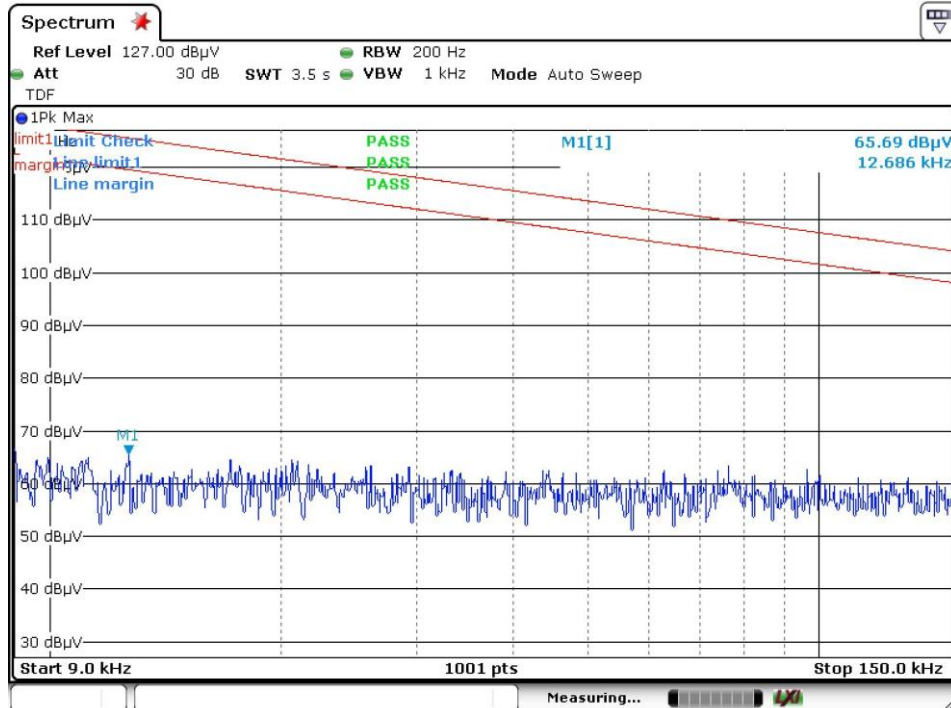


P

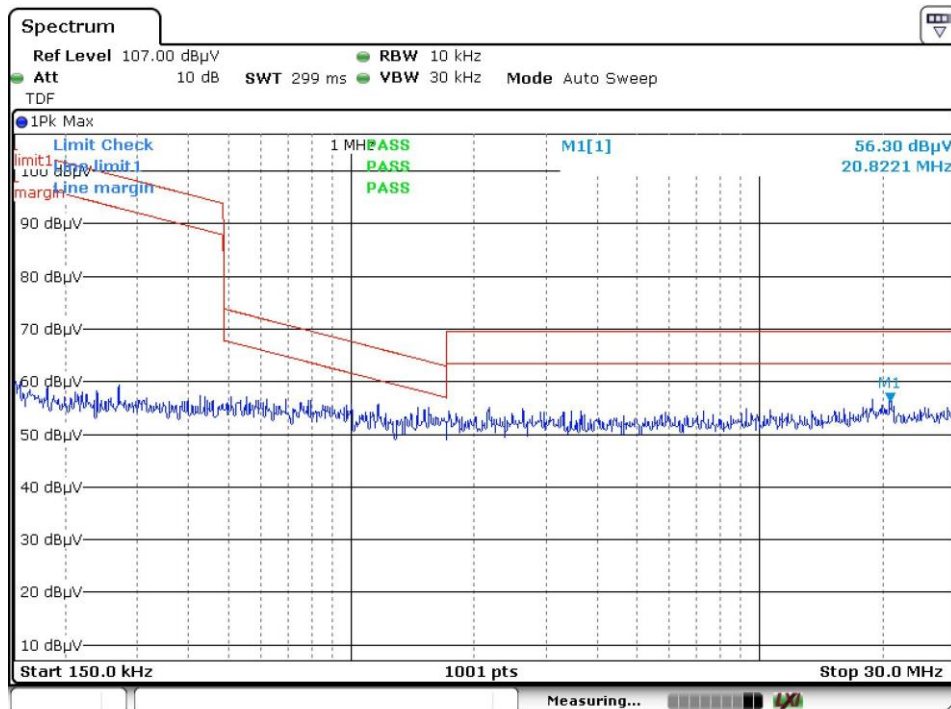


P

Test Plot of 2440MHz-Z of Low Energy mode

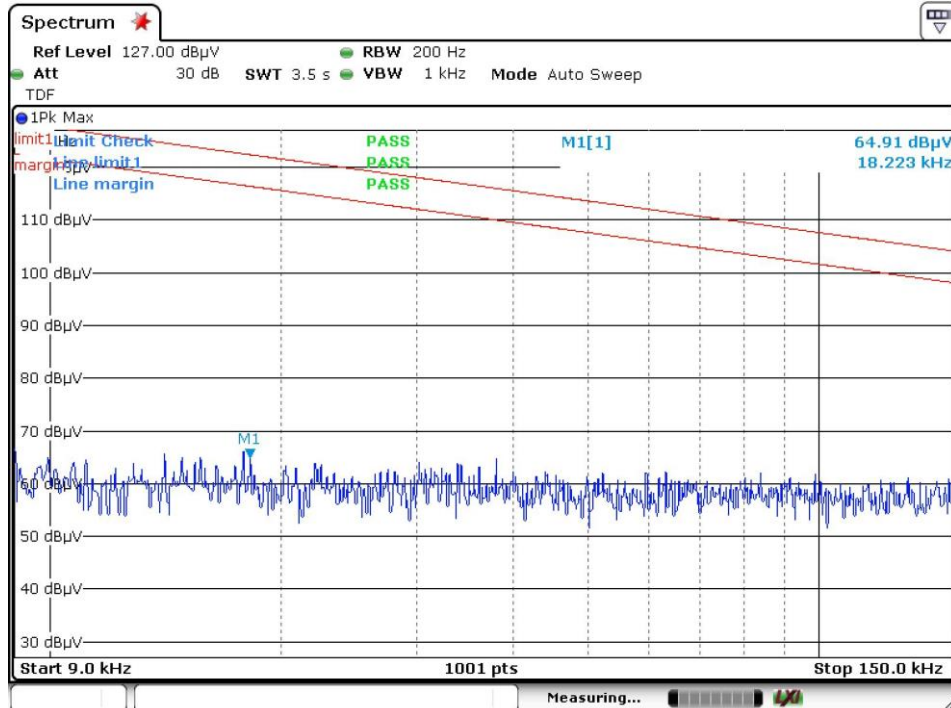


P

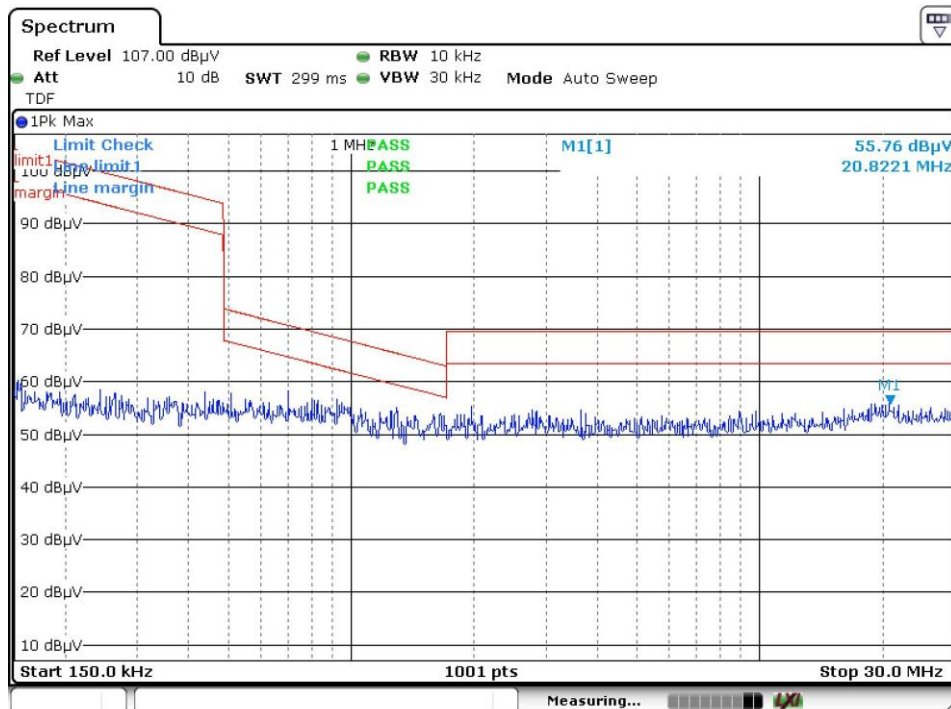


P

Test Plot of 2480MHz-X of Low Energy mode

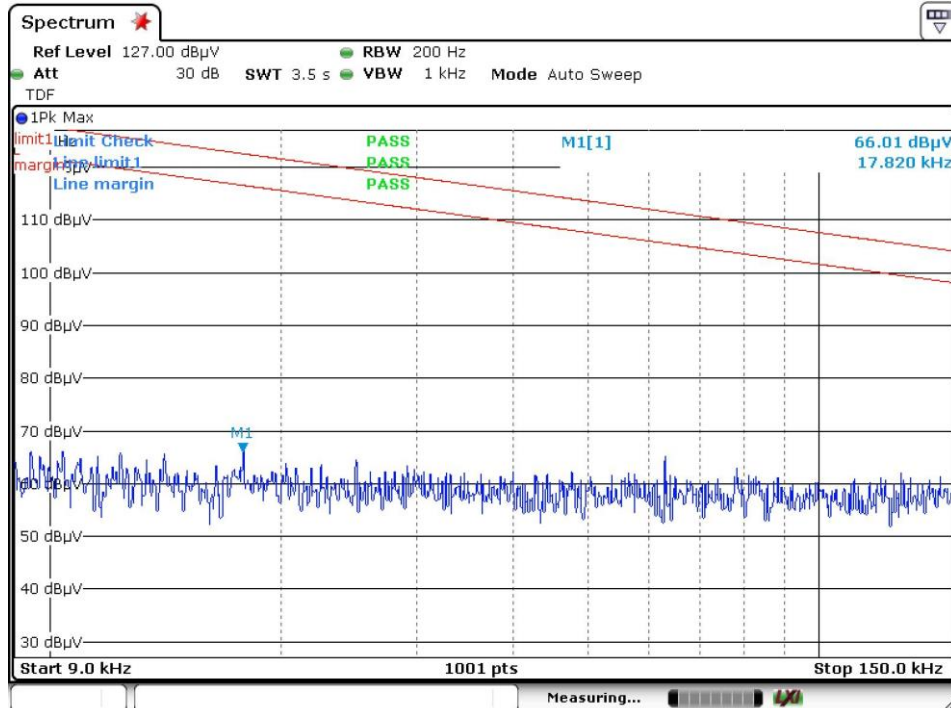


P

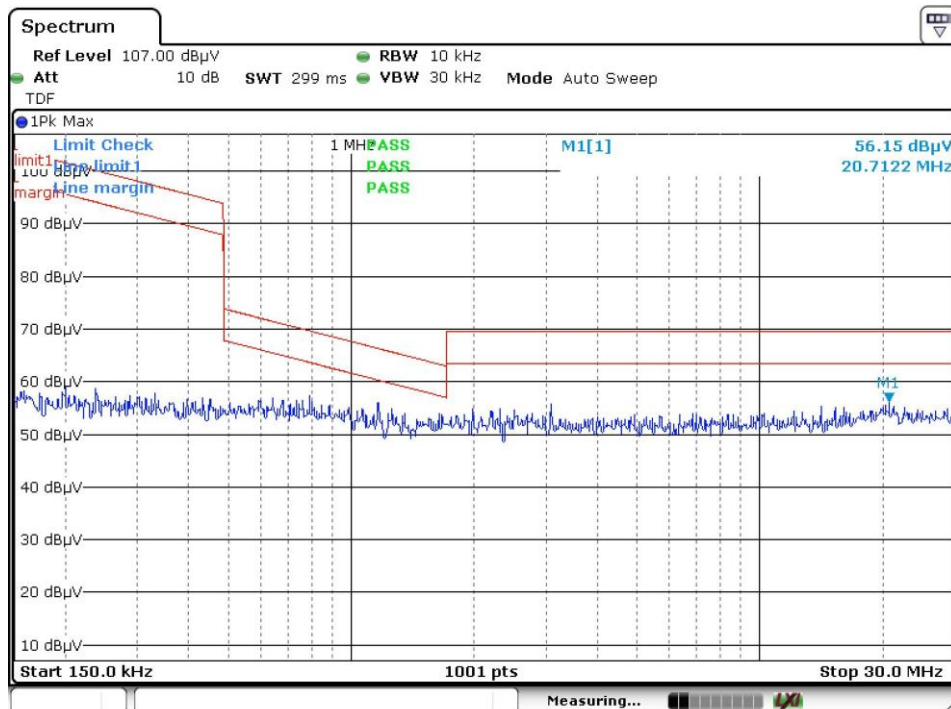


P

Test Plot of 2480MHz-Y of Low Energy mode

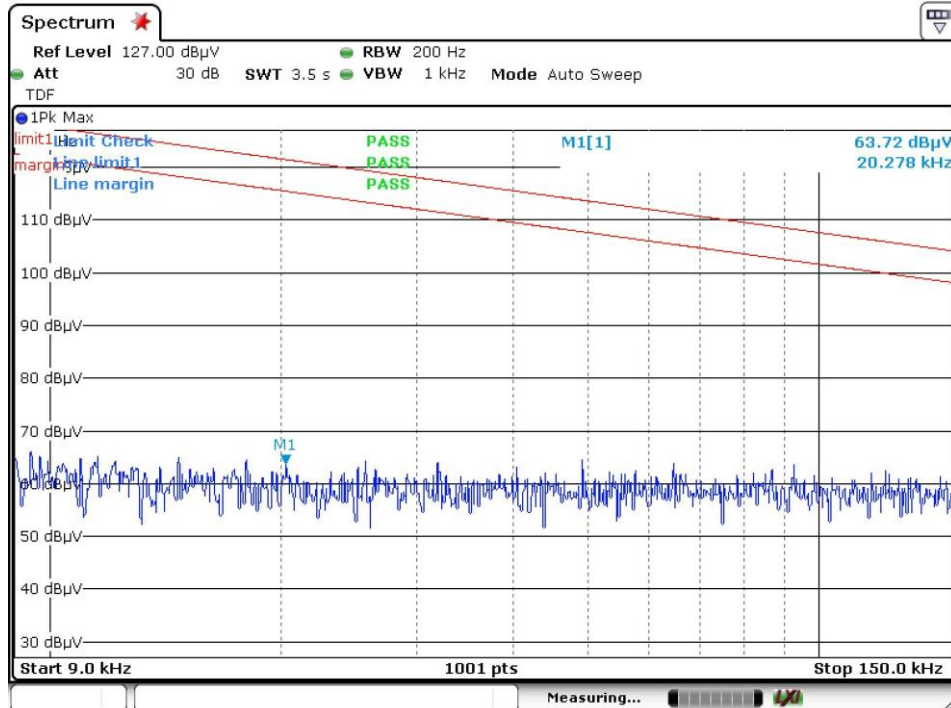


P

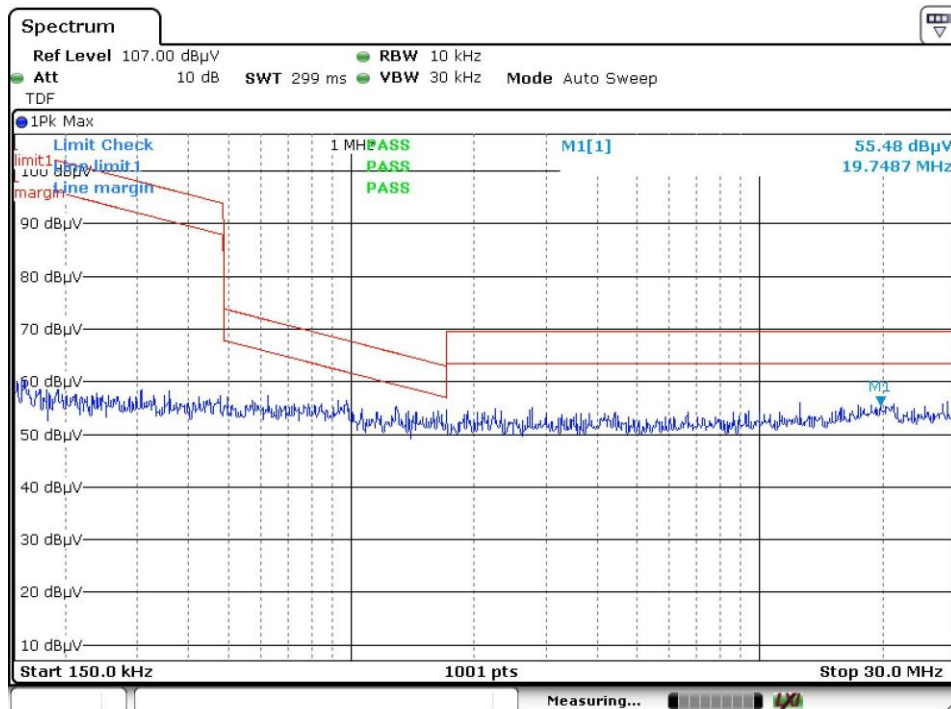


P

Test Plot of 2480MHz-Z of Low Energy mode



P

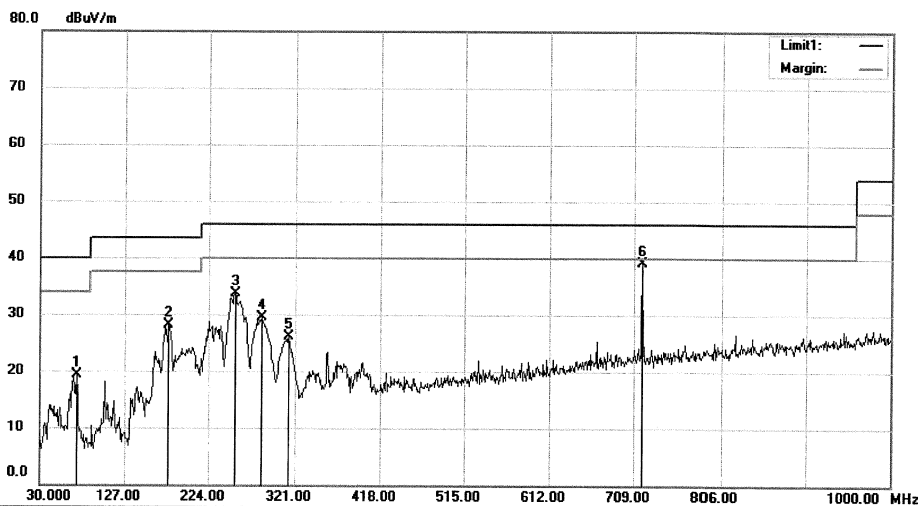


P

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#645 Date: 2016/05/27



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		71.7100	37.59	-18.25	19.34	40.00	-20.66	QP		
2		178.4100	45.35	-17.17	28.18	43.50	-15.32	QP		
3		254.0700	46.91	-13.28	33.63	46.00	-12.37	QP		
4		284.1400	41.85	-12.28	29.57	46.00	-16.43	QP		
5		314.2100	37.55	-11.42	26.13	46.00	-19.87	QP		
6	*	718.7000	43.07	-3.97	39.10	46.00	-6.90	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#645

Page: 1

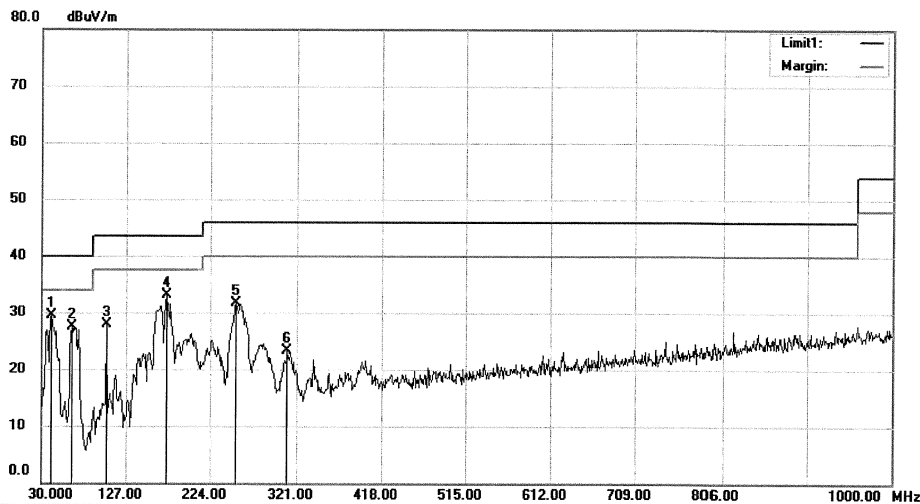
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

Radiated Emission Measurement

File :TUV

Data :#646

Date: 2016/05/27



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		40.6700	44.90	-15.34	29.56	40.00	-10.44	QP		
2		63.9500	43.88	-16.30	27.58	40.00	-12.42	QP		
3		103.7200	43.29	-15.30	27.99	43.50	-15.51	QP		
4	*	173.5600	50.28	-17.20	33.08	43.50	-10.42	QP		
5		253.1000	44.94	-13.33	31.61	46.00	-14.39	QP		
6		310.3300	34.85	-11.47	23.38	46.00	-22.62	QP		

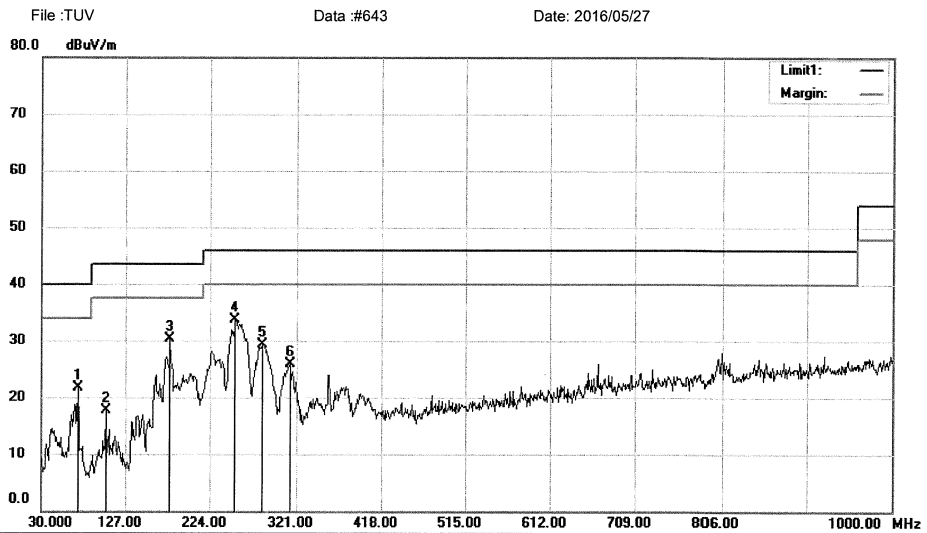
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#646

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2440
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		71.7100	39.91	-18.25	21.66	40.00	-18.34	QP		
2		103.7200	32.93	-15.30	17.63	43.50	-25.87	QP		
3		178.4100	47.48	-17.17	30.31	43.50	-13.19	QP		
4	*	252.1300	47.16	-13.37	33.79	46.00	-12.21	QP		
5		283.1700	41.71	-12.32	29.39	46.00	-16.61	QP		
6		313.2400	37.41	-11.43	25.98	46.00	-20.02	QP		

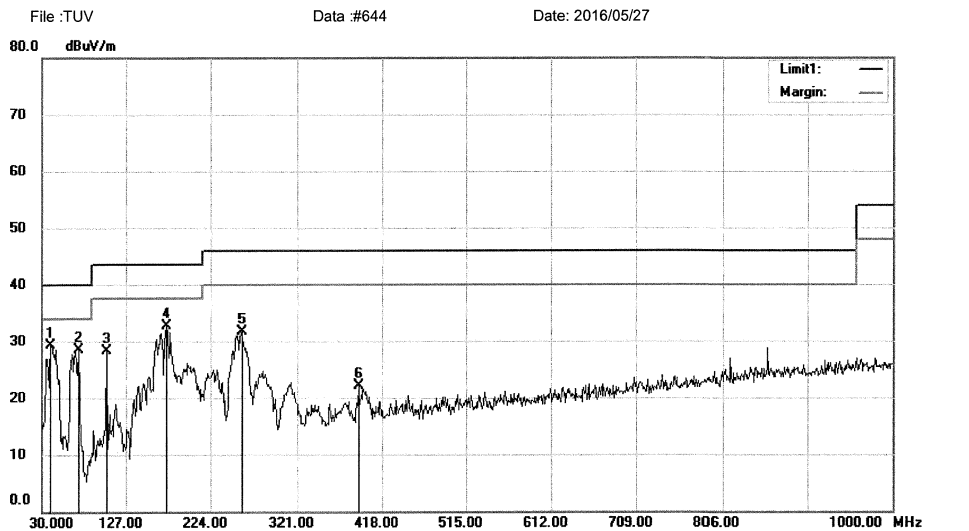
*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData: #643

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3

Limit: (RE)FCC PART 15 CLASS B

EUT: MID

M/N: NS-P16AT08

Mode:BLE 2440

Note:

 Polarization: **Vertical**

Power: AC 120V/60Hz

Temperature: 24 C

Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	39.7000	44.97	-15.59	29.38	40.00	-10.62	QP		
2		71.7100	46.68	-18.25	28.43	40.00	-11.57	QP		
3		103.7200	43.67	-15.30	28.37	43.50	-15.13	QP		
4		174.5300	49.81	-17.20	32.61	43.50	-10.89	QP		
5		258.9200	44.74	-13.04	31.70	46.00	-14.30	QP		
6		390.8400	31.93	-9.76	22.17	46.00	-23.83	QP		

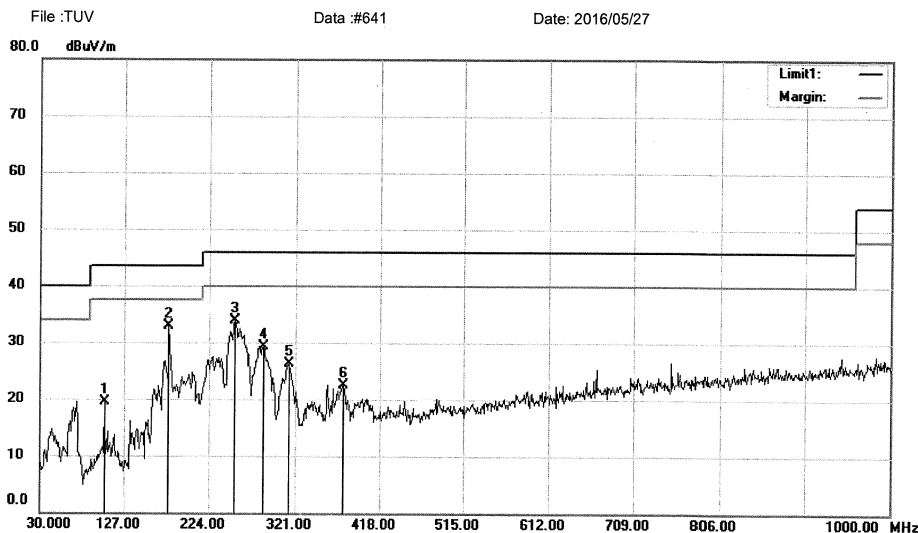
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#644

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2480
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment					
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		103.7200	34.86	-15.30	19.56	43.50	-23.94	QP		
2	*	178.4100	50.02	-17.17	32.85	43.50	-10.65	QP		
3		253.1000	47.19	-13.33	33.86	46.00	-12.14	QP		
4		285.1100	41.57	-12.23	29.34	46.00	-16.66	QP		
5		313.2400	37.70	-11.43	26.27	46.00	-19.73	QP		
6		376.2900	32.71	-10.25	22.46	46.00	-23.54	QP		

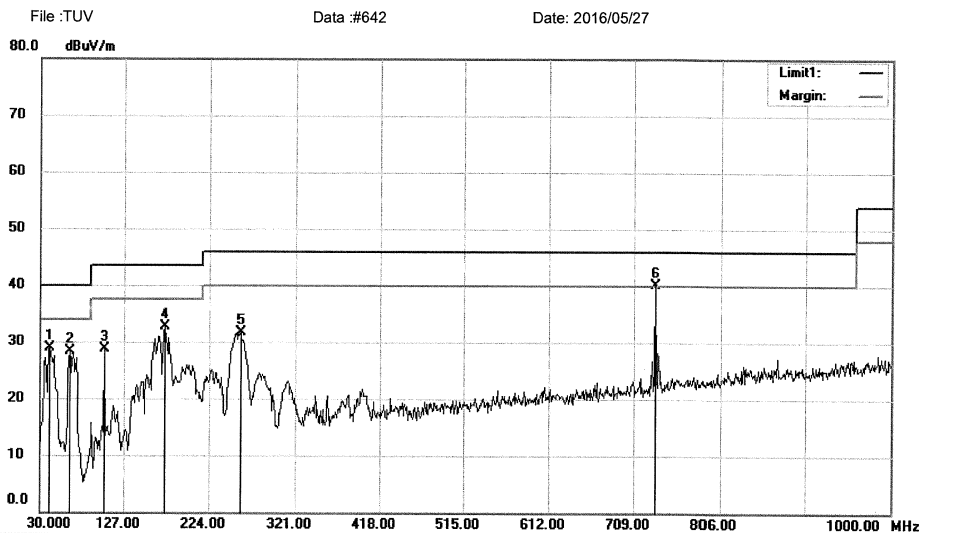
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#641

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2480
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		40.6700	44.30	-15.34	28.96	40.00	-11.04	QP		
2		63.9500	44.69	-16.30	28.39	40.00	-11.61	QP		
3		103.7200	43.93	-15.30	28.63	43.50	-14.87	QP		
4		173.5600	49.94	-17.20	32.74	43.50	-10.76	QP		
5		258.9200	44.72	-13.04	31.68	46.00	-14.32	QP		
6	*	734.2200	43.77	-3.76	40.01	46.00	-5.99	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

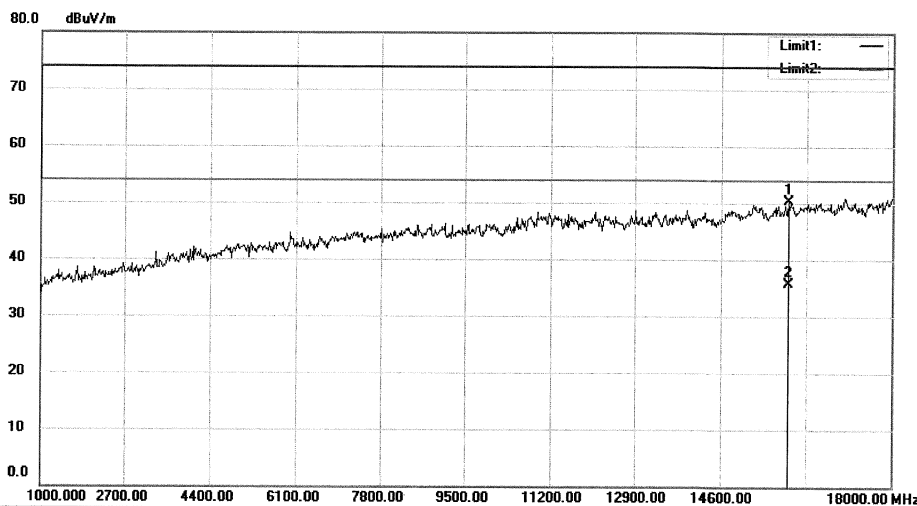
File: TUVData: #642

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#702 Date: 16/06/03/



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		15943.00	62.82	-12.57	50.25	74.00	-23.75	peak		
2	*	15943.00	48.37	-12.57	35.80	54.00	-18.20	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

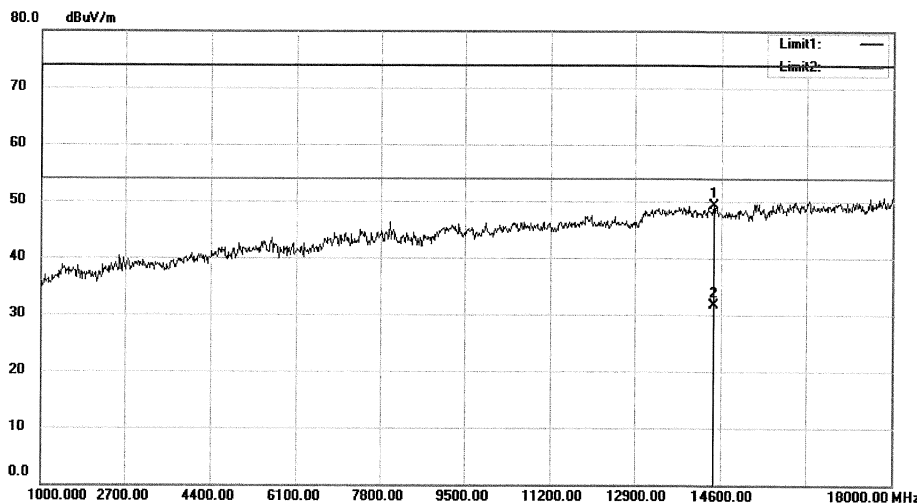
File :TUVData :#702

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#701 Date: 16/06/03/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		14447.00	57.94	-8.61	49.33	74.00	-24.67	peak		
2	*	14447.00	40.41	-8.61	31.80	54.00	-22.20	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

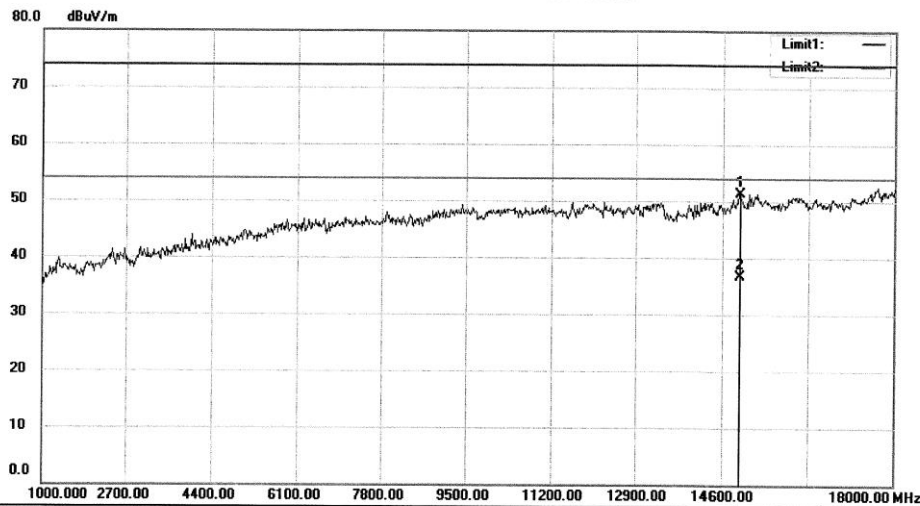
File :TUVData :#701

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File: TUV Data: #703 Date: 16/06/03/



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: MID

M/N: NS-P16AT08

Mode: BLE 2440

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Temperature: 24 C

Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		14940.00	60.88	-9.48	51.40	74.00	-22.60	peak		
2	*	14940.00	46.18	-9.48	36.70	54.00	-17.30	AVG		

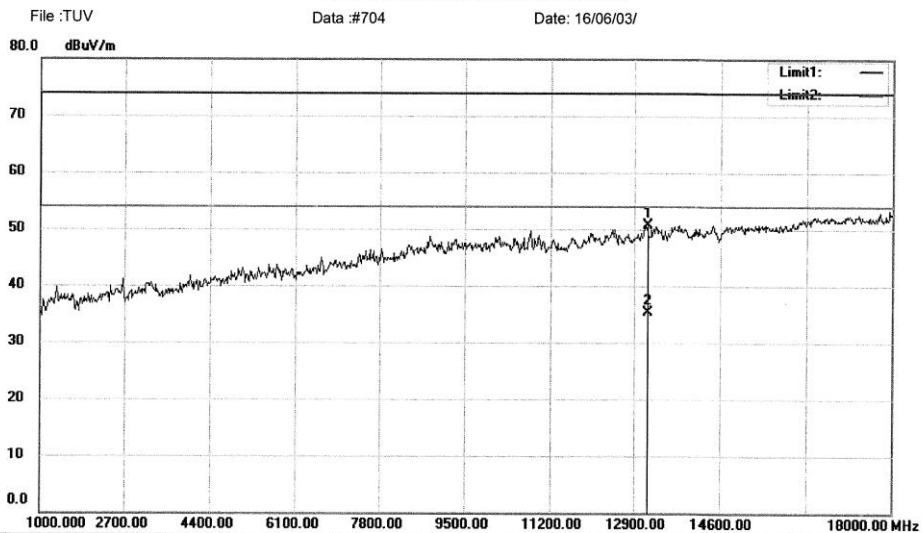
*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData :#703

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2440
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		13172.00	62.53	-11.87	50.66	74.00	-23.34	peak		
2	*	13172.00	47.27	-11.87	35.40	54.00	-18.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

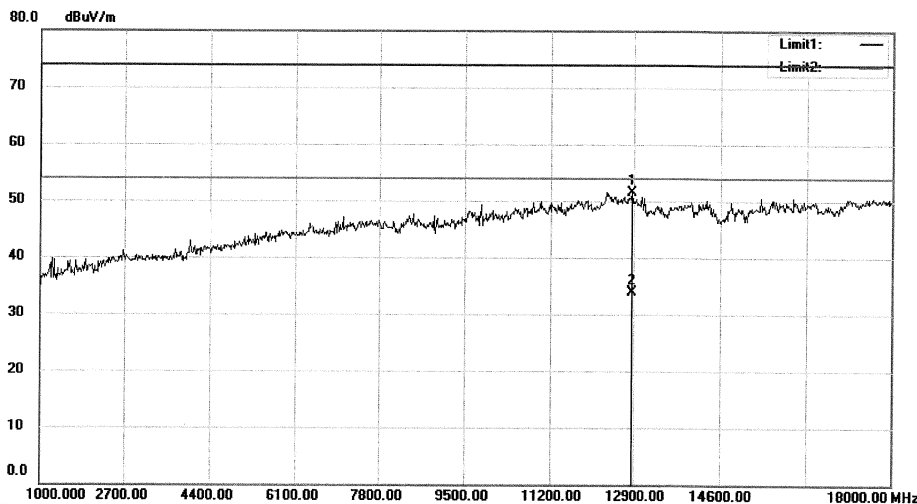
File: TUVData: #704

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File: TUV Data: #706 Date: 16/06/03/



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2480
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		12866.00	64.30	-12.83	51.47	74.00	-22.53	peak		
2	*	12866.00	46.83	-12.83	34.00	54.00	-20.00	AVG		

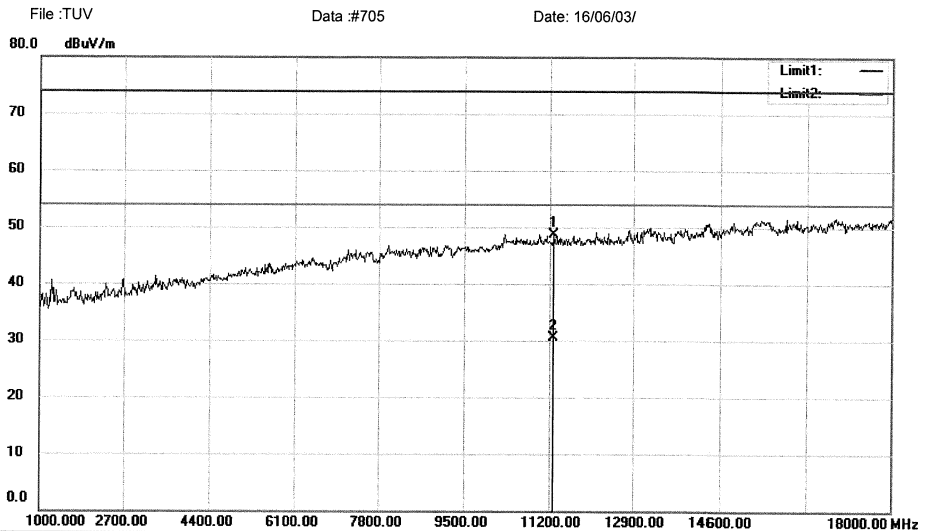
*:Maximum data x:Over limit !:over margin

Operator:

File: TUVData: #706

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2480
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		11285.00	62.23	-13.43	48.80	74.00	-25.20	peak		
2	*	11285.00	44.03	-13.43	30.60	54.00	-23.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

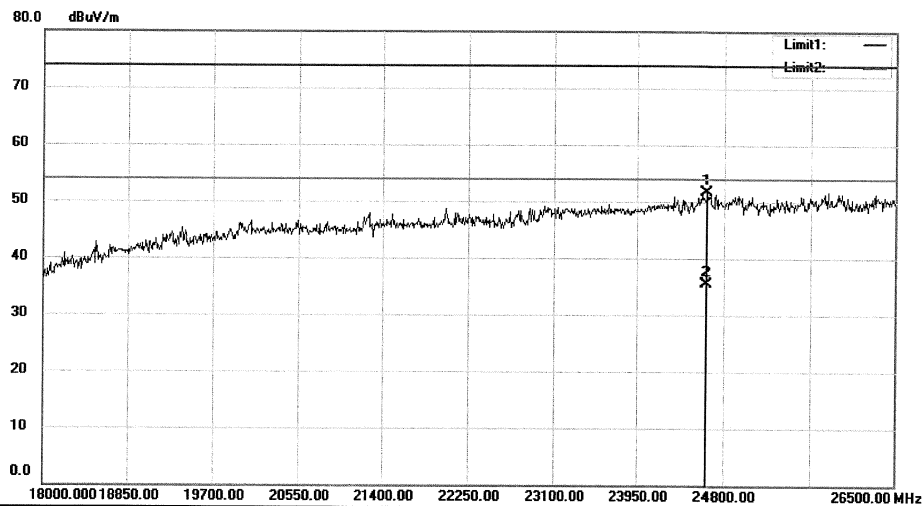
File: TUVData: #705

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#725 Date: 16/06/03/



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode: BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24638.50	88.82	-37.05	51.77	74.00	-22.23	peak		
2	*	24638.50	72.65	-37.05	35.60	54.00	-18.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

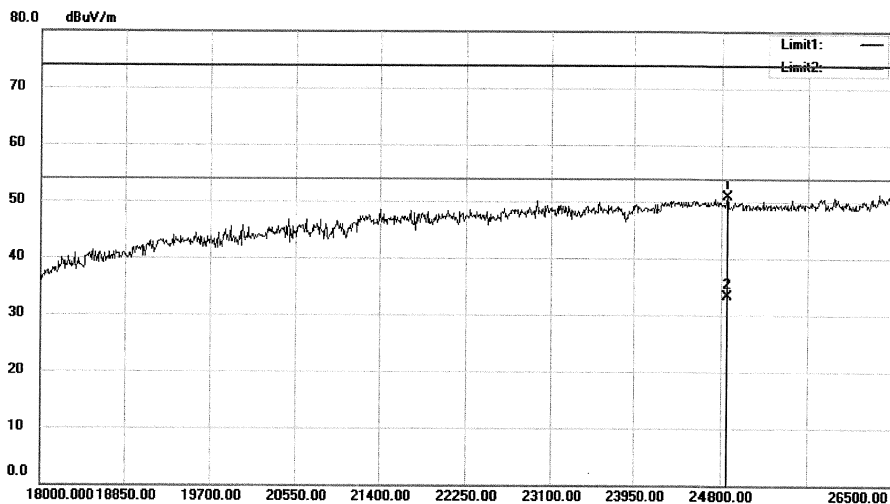
File :TUVData :#725

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#726 Date: 16/06/03/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24859.50	87.91	-37.03	50.88	74.00	-23.12	peak		
2	*	24859.50	70.43	-37.03	33.40	54.00	-20.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#726

Page: 1

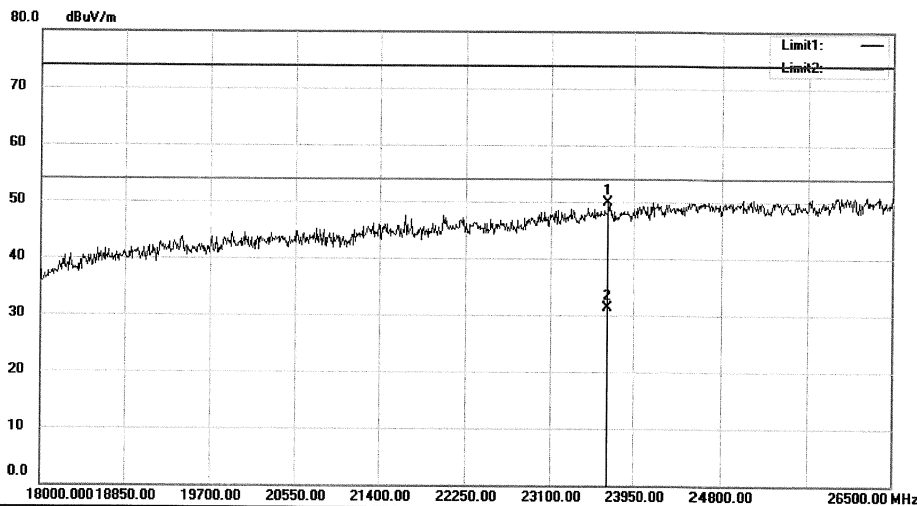
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV

Data :#727

Date: 16/06/03/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		23686.50	87.34	-37.46	49.88	74.00	-24.12	peak		
2	*	23686.50	68.86	-37.46	31.40	54.00	-22.60	AVG		

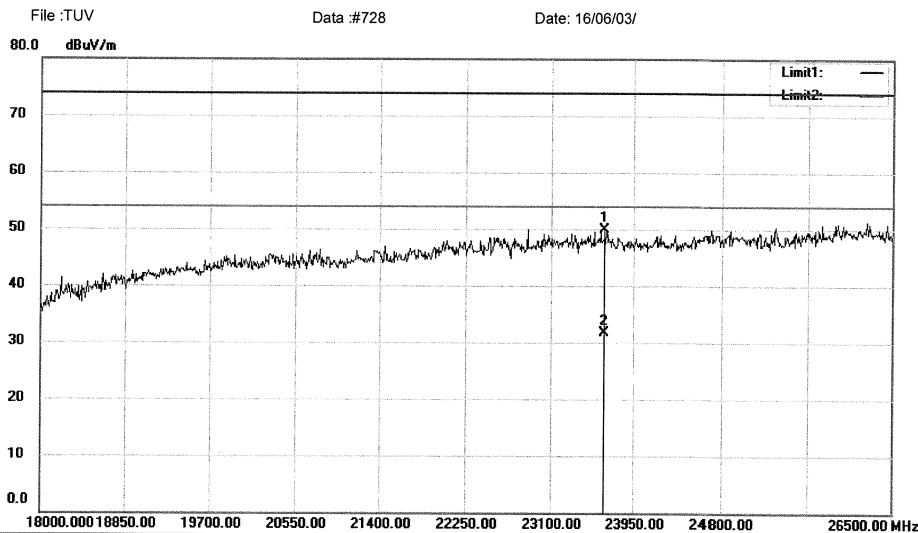
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#727

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2440
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		23652.50	87.41	-37.49	49.92	74.00	-24.08	peak		
2	*	23652.50	69.19	-37.49	31.70	54.00	-22.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

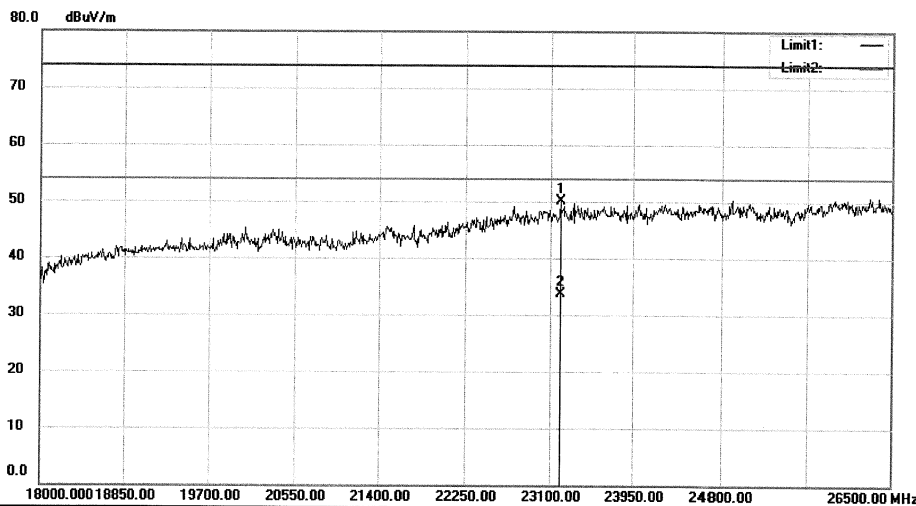
File :TUVData :#728

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#729 Date: 16/06/03/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2480
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		23202.00	88.06	-37.97	50.09	74.00	-23.91			peak
2	*	23202.00	71.77	-37.97	33.80	54.00	-20.20			AVG

*:Maximum data x:Over limit !:over margin

Operator: KK

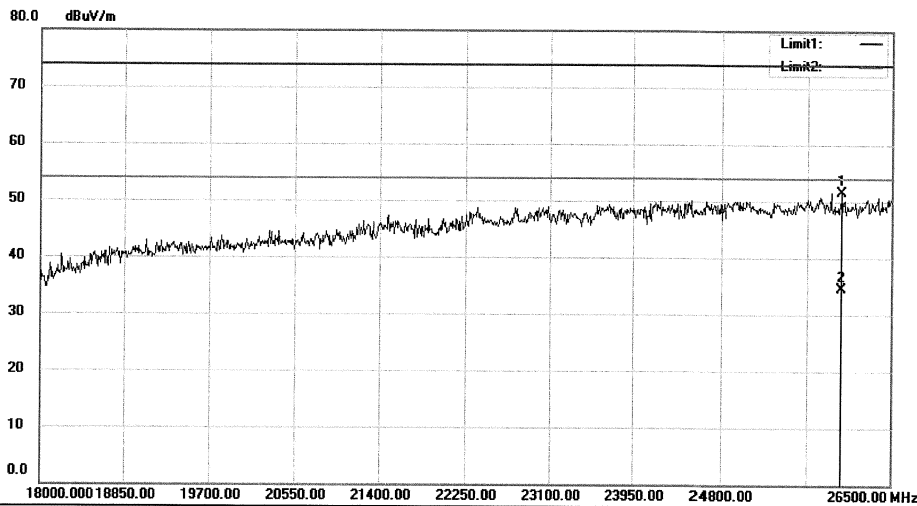
File :TUVData :#729

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV Data :#730 Date: 16/06/03/



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode: BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		25998.50	87.37	-35.79	51.58	74.00	-22.42	peak		
2	*	25998.50	70.29	-35.79	34.50	54.00	-19.50	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#730

Page: 1

Prüfbericht - Nr.: 50046347 001
Test Report No.
Seite 135 von 148
Page 135 of 148

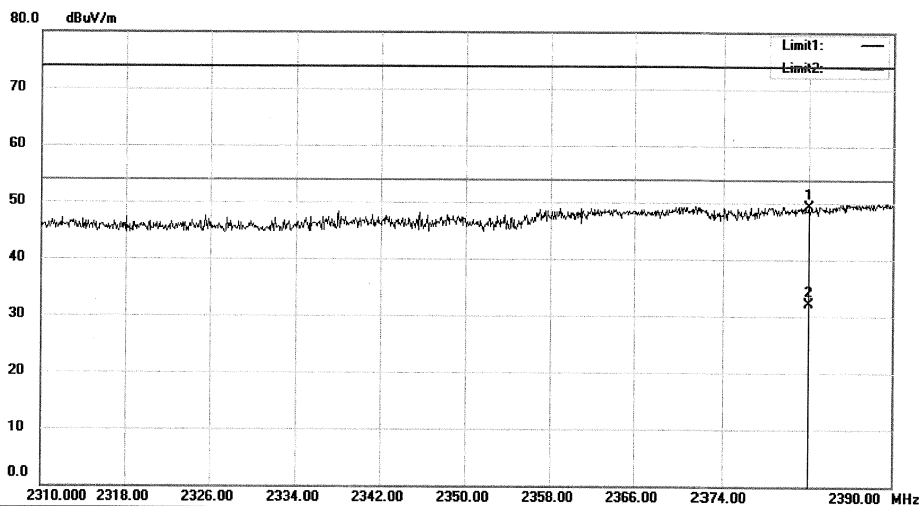
Test Plot of Band Edge of Bluetooth Low Energy mode

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282



Radiated Emission Measurement

File :TUV Data :#767 Date: 16/06/03/



Site 3m Chamber #3
 Limit: (RE)FCC PART 15 C
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2402
 Note:

Polarization: **Horizontal** Temperature: 24 C
 Power: AC 120V/60Hz Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		2382.000	41.75	7.55	49.30	74.00	-24.70	peak		
2	*	2382.000	24.55	7.55	32.10	54.00	-21.90	AVG		

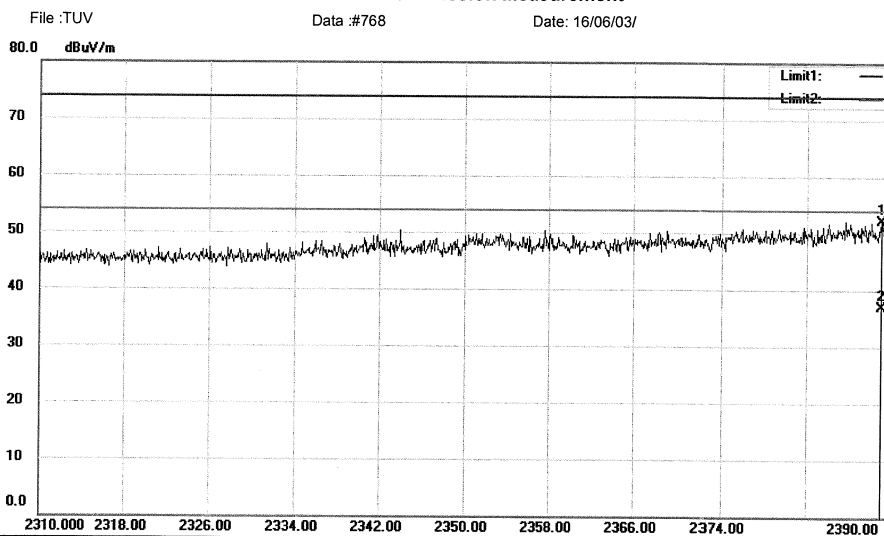
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data :#767

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: NS-P16AT08
 Mode:BLE 2402
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		2389.040	44.44	7.60	52.04	74.00	-21.96	peak		
2	*	2389.040	29.30	7.60	36.90	54.00	-17.10	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

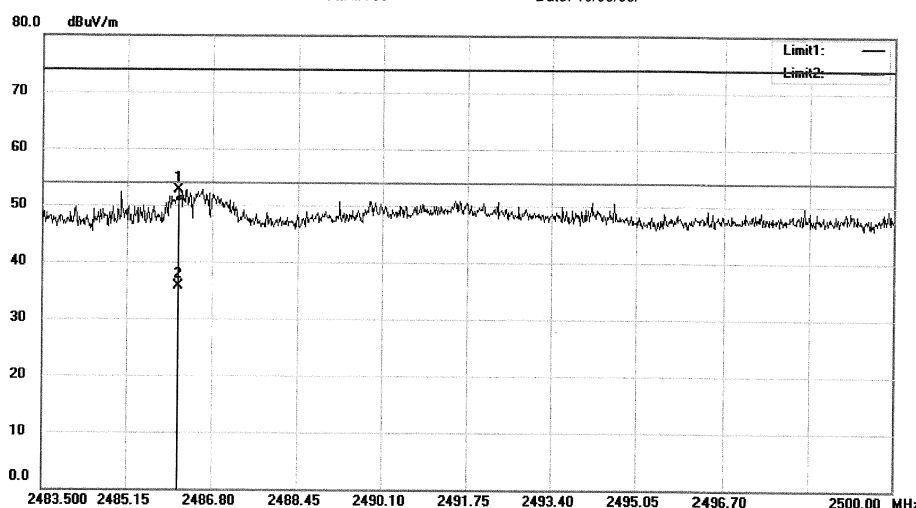
File :TUV\Data :#768

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File : TUV Data : #769 Date : 16/06/03/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode: BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2486.157	44.35	8.30	52.65	74.00	-21.35	peak		
2	*	2486.157	27.40	8.30	35.70	54.00	-18.30	AVG		

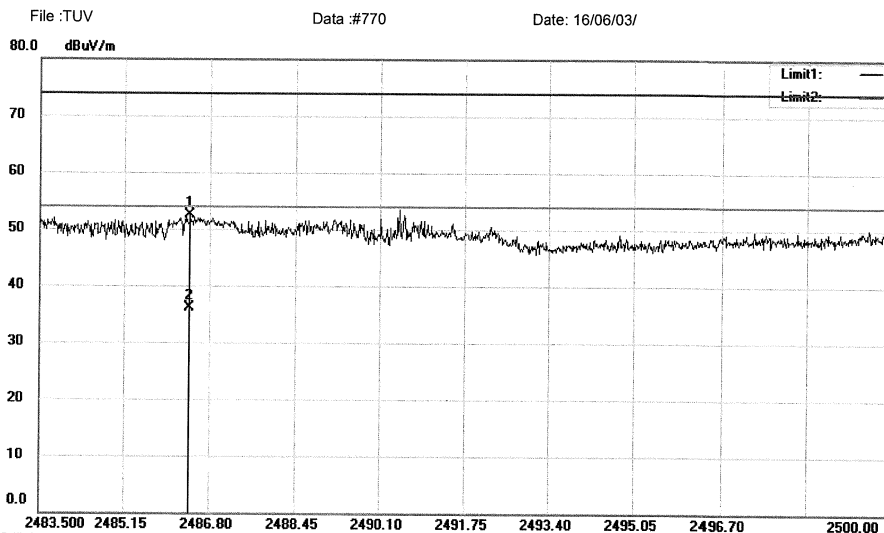
*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV\Data : #769

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: NS-P16AT08

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		2486.421	44.26	8.31	52.57	74.00	-21.43	peak		
2	*	2486.421	27.89	8.31	36.20	54.00	-17.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data :#770

Page: 1

5.1.8 Frequency Separation

RESULT:
Pass

Date of testing : 2016-05-26
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.10: 2013
 Limit : $\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth,
 whichever is greater
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.000	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.000	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.000	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

Prüfbericht - Nr.: 50046347 001

Test Report No.

Seite 140 von 148

Page 140 of 148

5.1.9 Number of hopping frequency**RESULT:****Pass**

Date of testing : 2016-05-26
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 15: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥ 15	Pass

5.1.10 Time of Occupancy

RESULT:
Pass

Date of testing : 2016-05-27
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.10: 2013
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101kPa

Table 16: Test result of Time of Occupancy

Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
BDR	DH1	2402	0.404	320	129.28	400
		2441	0.400	320	128.00	400
		2480	0.396	320	126.72	400
	DH3	2402	1.652	165	272.58	400
		2441	1.638	165	270.27	400
		2480	1.652	165	272.58	400
	DH5	2402	2.900	112	324.80	400
		2441	2.900	112	324.80	400
		2480	2.900	112	324.80	400
EDR	DH1	2402	0.372	320	119.04	400
		2441	0.372	320	119.04	400
		2480	0.368	320	117.76	400
	DH3	2402	1.652	165	272.58	400
		2441	1.645	165	271.43	400
		2480	1.652	165	272.58	400
	DH5	2402	2.830	112	316.96	400
		2441	2.820	112	316.96	400
		2480	2.820	112	316.96	400

Prüfbericht - Nr.: 50046347 001

Test Report No.

Seite 142 von 148

Page 142 of 148

5.1.11 Conducted emissions**RESULT:****Pass**

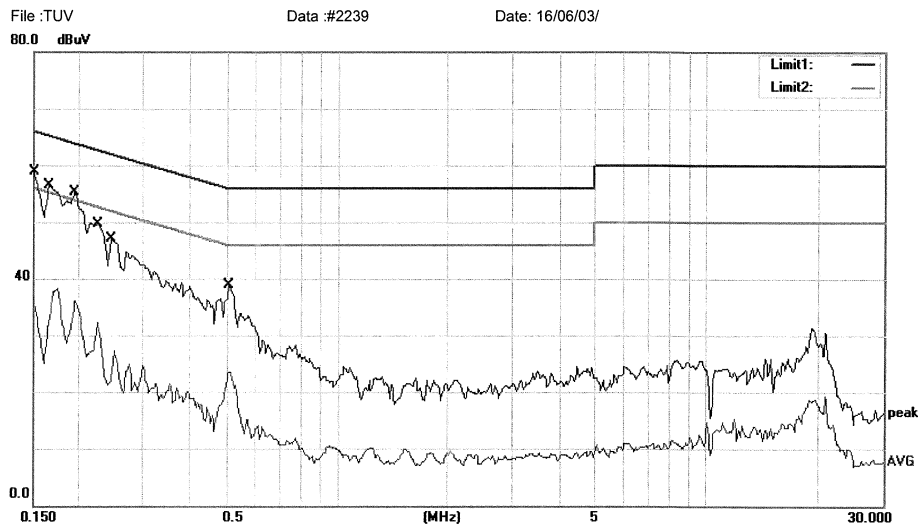
Date of testing	:	2016-06-03
Test standard	:	FCC Part 15.207
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

Conducted Emission Measurement


Site Conduction #1

Phase: L1

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC120V/60Hz

Humidity: 55 %

EUT: MID

M/N: NS-P16AT08

Mode: BT 4.0

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	58.86	0.00	58.86	66.00	-7.14	QP	
2		0.1500	36.62	0.00	36.62	56.00	-19.38	AVG	
3		0.1658	56.33	0.00	56.33	65.17	-8.84	QP	
4		0.1658	38.36	0.00	38.36	55.17	-16.81	AVG	
5		0.1950	55.31	0.00	55.31	63.82	-8.51	QP	
6		0.1950	36.18	0.00	36.18	53.82	-17.64	AVG	
7		0.2255	49.61	0.00	49.61	62.61	-13.00	QP	
8		0.2255	32.37	0.00	32.37	52.61	-20.24	AVG	
9		0.2450	47.16	0.00	47.16	61.92	-14.76	QP	
10		0.2450	27.26	0.00	27.26	51.92	-24.66	AVG	
11		0.5100	38.85	0.00	38.85	56.00	-17.15	QP	
12		0.5100	23.59	0.00	23.59	46.00	-22.41	AVG	

*:Maximum data x:Over limit !:over margin

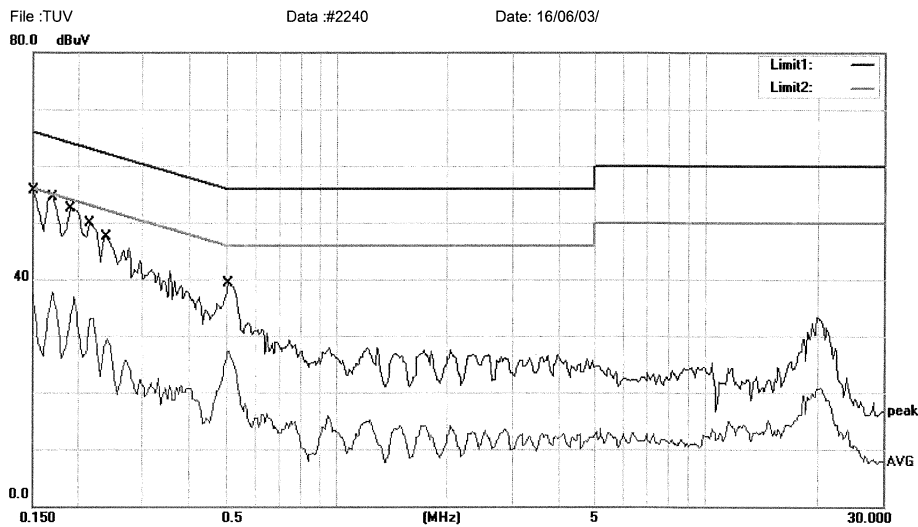
Comment: Factor build in receiver.

Operator: CSL

File :TUVData :#2239

Page: 1

Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Conducted Emission Measurement


Site: Conduction #1

 Phase: *N*
 Power: AC120V/60Hz

 Temperature: 22
 Humidity: 55 %

 Limit: (CE)FCC PART 15 class B_QP
 EUT: MID
 M/N: NS-P16AT08
 Mode: BT 4.0
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit		Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	55.80	0.00	55.80	66.00	-10.20	QP	
2		0.1500	37.40	0.00	37.40	56.00	-18.60	AVG	
3		0.1700	54.60	0.00	54.60	64.96	-10.36	QP	
4		0.1700	37.67	0.00	37.67	54.96	-17.29	AVG	
5		0.1904	52.43	0.00	52.43	64.02	-11.59	QP	
6		0.1904	36.94	0.00	36.94	54.02	-17.08	AVG	
7		0.2150	49.91	0.00	49.91	63.01	-13.10	QP	
8		0.2150	33.14	0.00	33.14	53.01	-19.87	AVG	
9		0.2404	47.25	0.00	47.25	62.08	-14.83	QP	
10		0.2404	29.47	0.00	29.47	52.08	-22.61	AVG	
11		0.5100	39.38	0.00	39.38	56.00	-16.62	QP	
12		0.5100	27.30	0.00	27.30	46.00	-18.70	AVG	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File : TUVData : #2240

Page: 1

7. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty	6
Table 3: Technical Specification of Bluetooth (BDR & EDR mode)	8
Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode).....	8
Table 5: Technical Specification of Bluetooth (Low Energy mode).....	9
Table 6: RF channel and frequency of Bluetooth (Low Energy mode)	9
Table 7: Test result of Peak Output Power of Bluetooth (BDR mode)	15
Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)	15
Table 9: Test result of Peak Output Power of Bluetooth (Low Energy mode)	15
Table 10: Test result of 20dB and 99% Bandwidth of BDR mode	16
Table 11: Test result of 20dB and 99% Bandwidth of EDR mode	16
Table 12: Test result of 6dB Bandwidth and 99% Bandwidth of Bluetooth, Low Energy mode.....	17
Table 13: Test result of power spectral density.....	31
Table 14: Test result of Frequency Separation	139
Table 15: Test result of Number of hopping frequency	140
Table 16: Test result of Time of Occupancy.....	141

8. List of Photographs

Photograph 1: Set-up for Spurious Emissions for below 30MHz	145
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz	145
Photograph 3: Set-up for Spurious Emissions for 1 - 18GHz.....	146
Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz.....	146
Photograph 5: Set-up for Conducted Emission.....	147