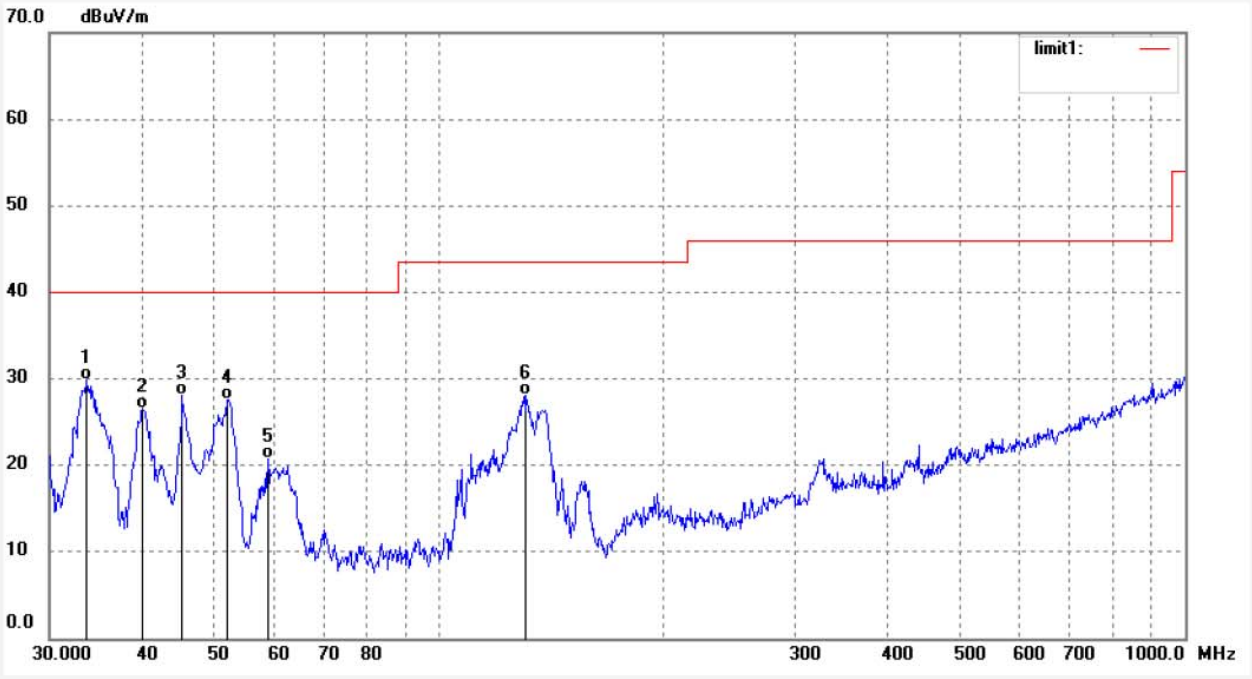
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: DING #3622	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 18:53:10
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: DING
Mode: TX 2437MHz	Distance: 3m
Model: K1	
Manufacturer: CHUANGO	

Note: Report NO.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.6881	45.51	-15.62	29.89	40.00	-10.11	QP			
2	40.0173	44.53	-18.10	26.43	40.00	-13.57	QP			
3	45.2538	47.07	-19.01	28.06	40.00	-11.94	QP			
4	51.8998	48.65	-21.11	27.54	40.00	-12.46	QP			
5	58.8979	42.55	-21.76	20.79	40.00	-19.21	QP			
6	130.7634	50.16	-22.15	28.01	43.50	-15.49	QP			

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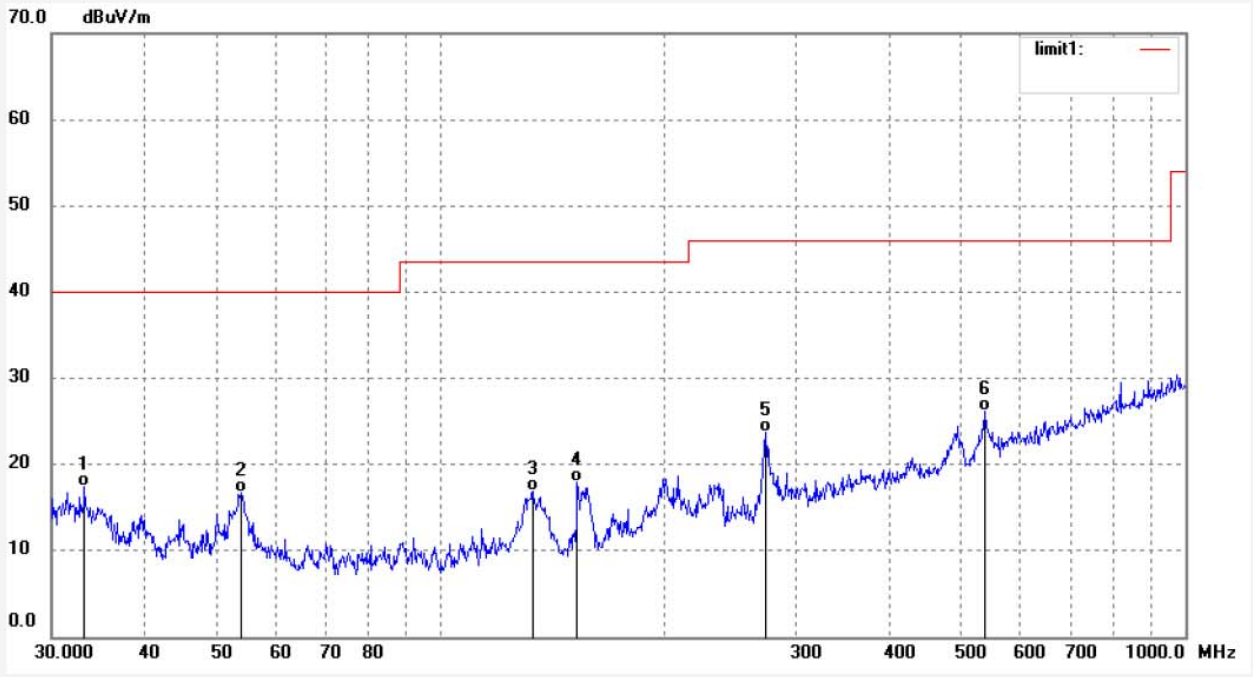
Job No.: DING #3624
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX 2462MHz
Model: K1
Manufacturer: CHUANGO

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 18:56:01
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.2180	32.92	-15.50	17.42	40.00	-22.58	QP			
2	53.9451	38.13	-21.44	16.69	40.00	-23.31	QP			
3	133.0809	39.07	-22.18	16.89	43.50	-26.61	QP			
4	152.6255	40.14	-22.13	18.01	43.50	-25.49	QP			
5	273.4838	40.73	-16.94	23.79	46.00	-22.21	QP			
6	538.8106	36.12	-9.97	26.15	46.00	-19.85	QP			

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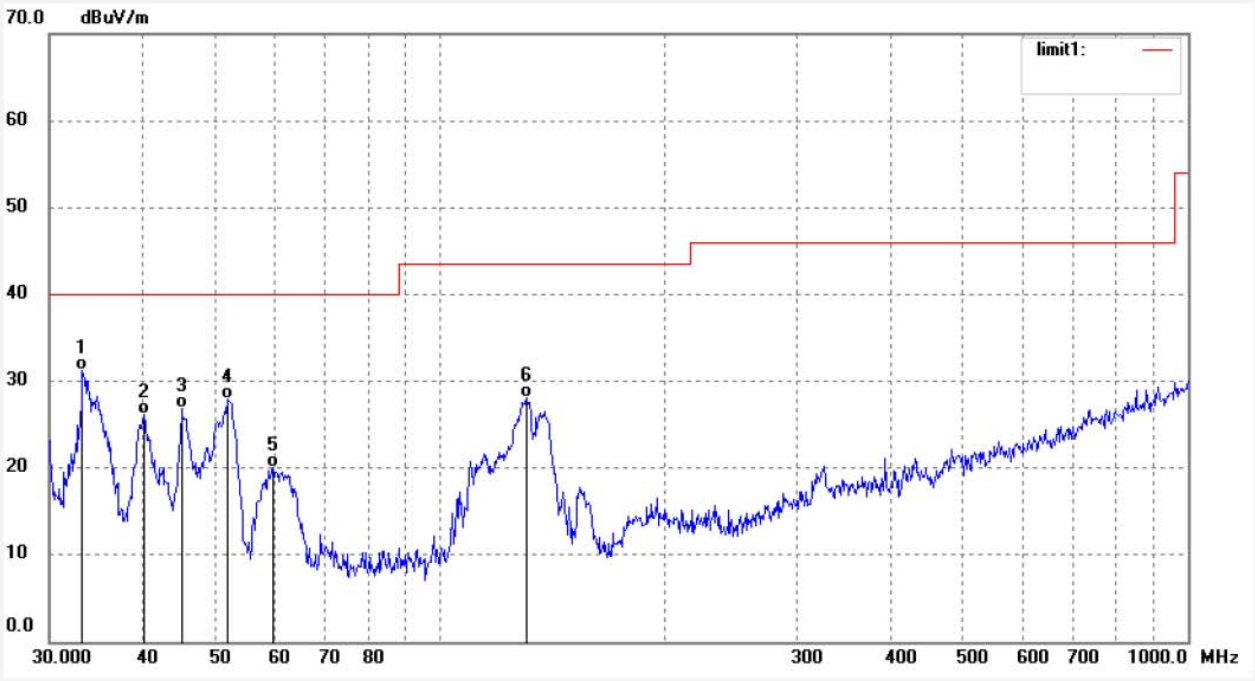
Job No.: DING #3625
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX 2462MHz
Model: K1
Manufacturer: CHUANGO

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 18:57:32
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.2180	46.79	-15.50	31.29	40.00	-8.71	QP			
2	40.1581	44.26	-18.13	26.13	40.00	-13.87	QP			
3	45.0951	45.76	-18.96	26.80	40.00	-13.20	QP			
4	52.0826	49.04	-21.14	27.90	40.00	-12.10	QP			
5	59.7315	41.85	-21.79	20.06	40.00	-19.94	QP			
6	130.3048	50.19	-22.14	28.05	43.50	-15.45	QP			

Above 1G

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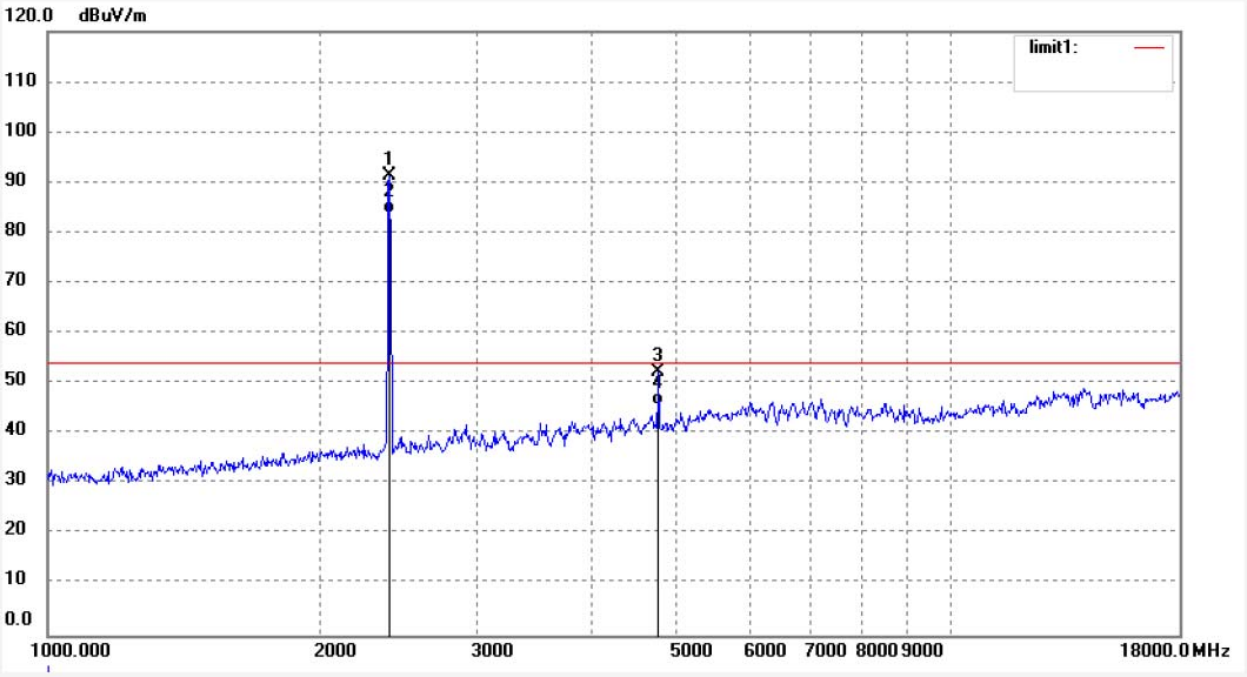
Job No.: star2017 #482
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 1 (802.11b)
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 18/55/30
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.219	95.26	-3.93	91.33			peak			
2	2412.219	87.78	-3.93	83.85			AVG			
3	4824.438	48.89	3.58	52.47	74.00	-21.53	peak			
4	4824.438	42.17	3.58	45.75	54.00	-8.25	AVG			

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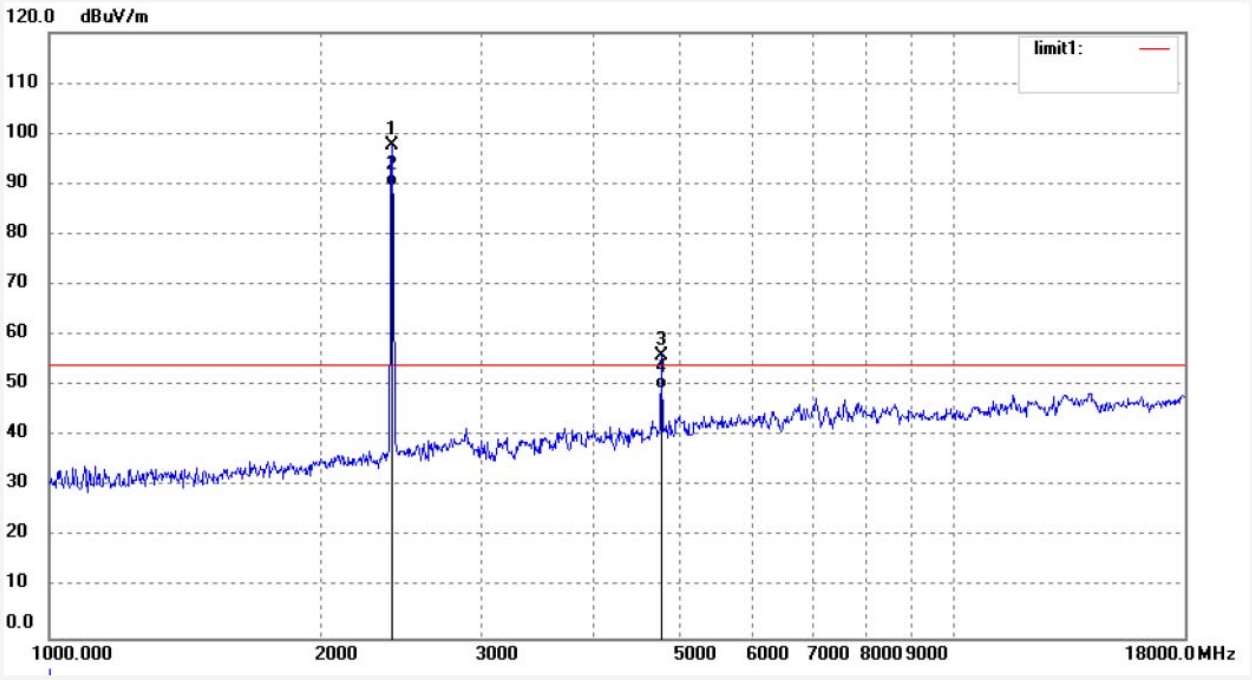
Job No.: star2017 #484
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 1 (802.11b)
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 18/57/53
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.219	101.49	-3.93	97.56			peak			
2	2412.219	93.47	-3.93	89.54			AVG			
3	4824.438	52.41	3.52	55.93	74.00	-18.07	peak			
4	4824.438	45.87	3.52	49.39	54.00	-4.61	AVG			

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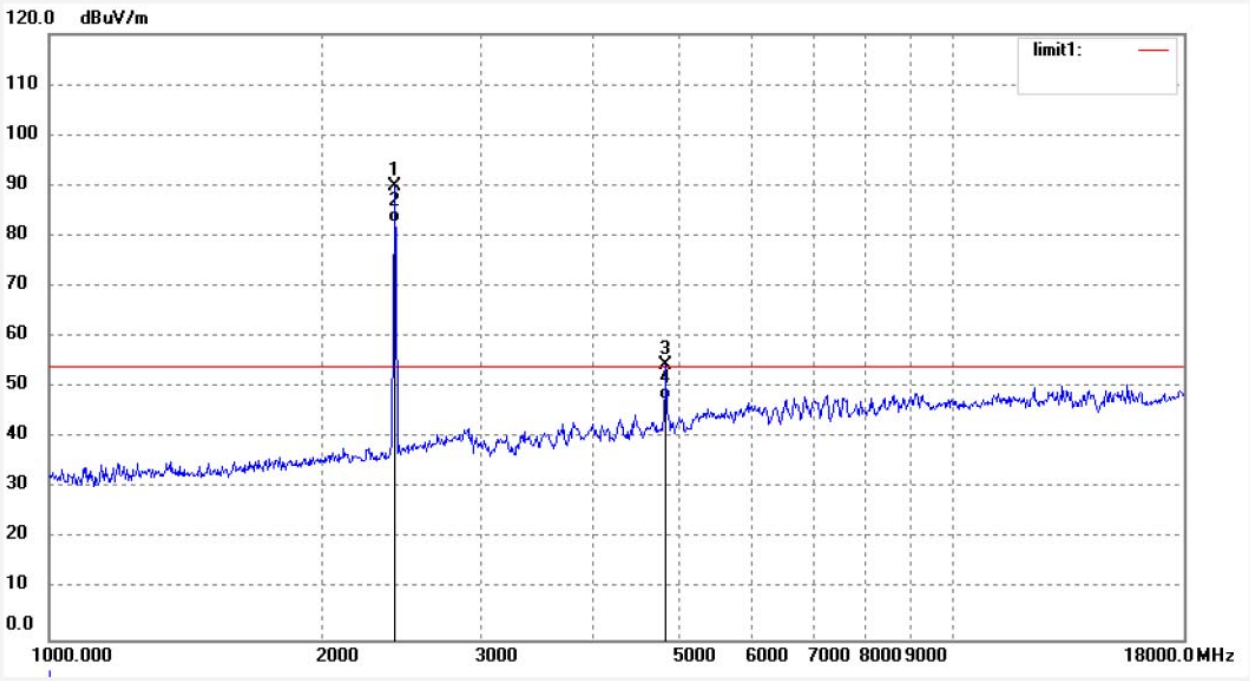
Job No.: star2017 #486	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/02/37
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.100	93.68	-3.83	89.85			peak			
2	2437.100	86.40	-3.83	82.57			AVG			
3	4874.200	50.70	3.82	54.52	74.00	-19.48	peak			
4	4874.200	43.62	3.82	47.44	54.00	-6.56	AVG			

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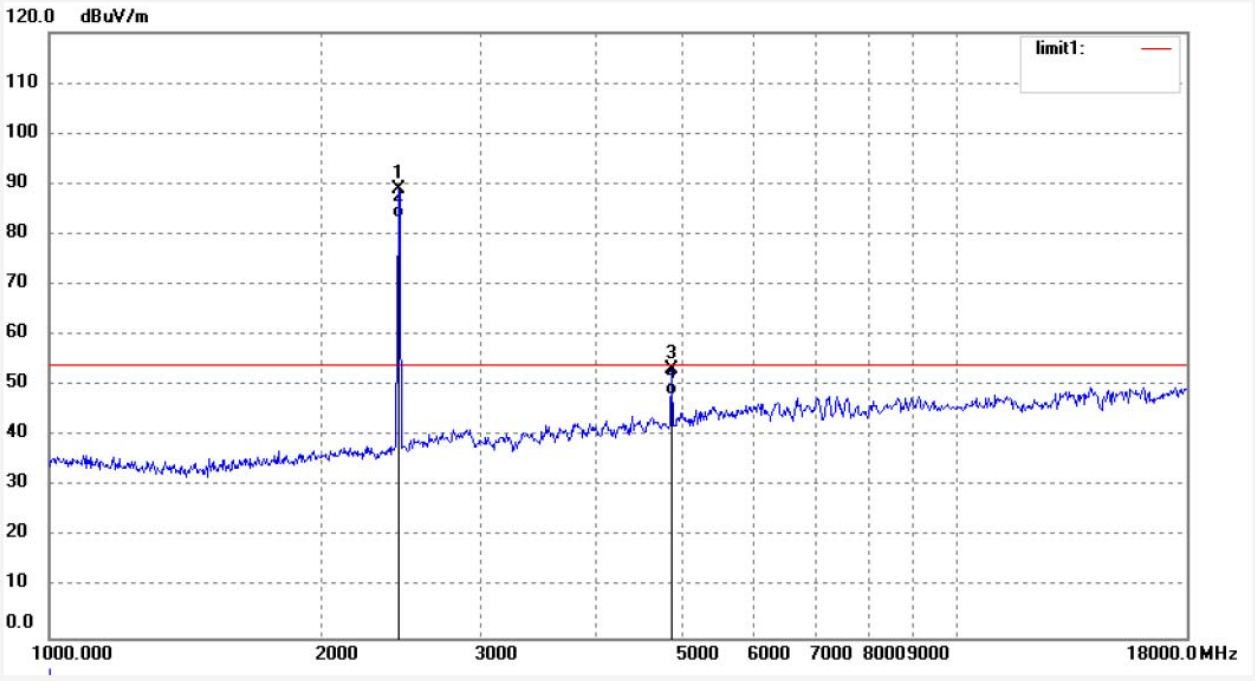
Job No.: star2017 #487
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 11 (802.11b)
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/07/04
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	92.58	-3.77	88.81			peak			
2	2462.124	87.10	-3.77	83.33			AVG			
3	4924.248	49.26	4.00	53.26	74.00	-20.74	peak			
4	4924.248	44.30	4.00	48.30	54.00	-5.70	AVG			

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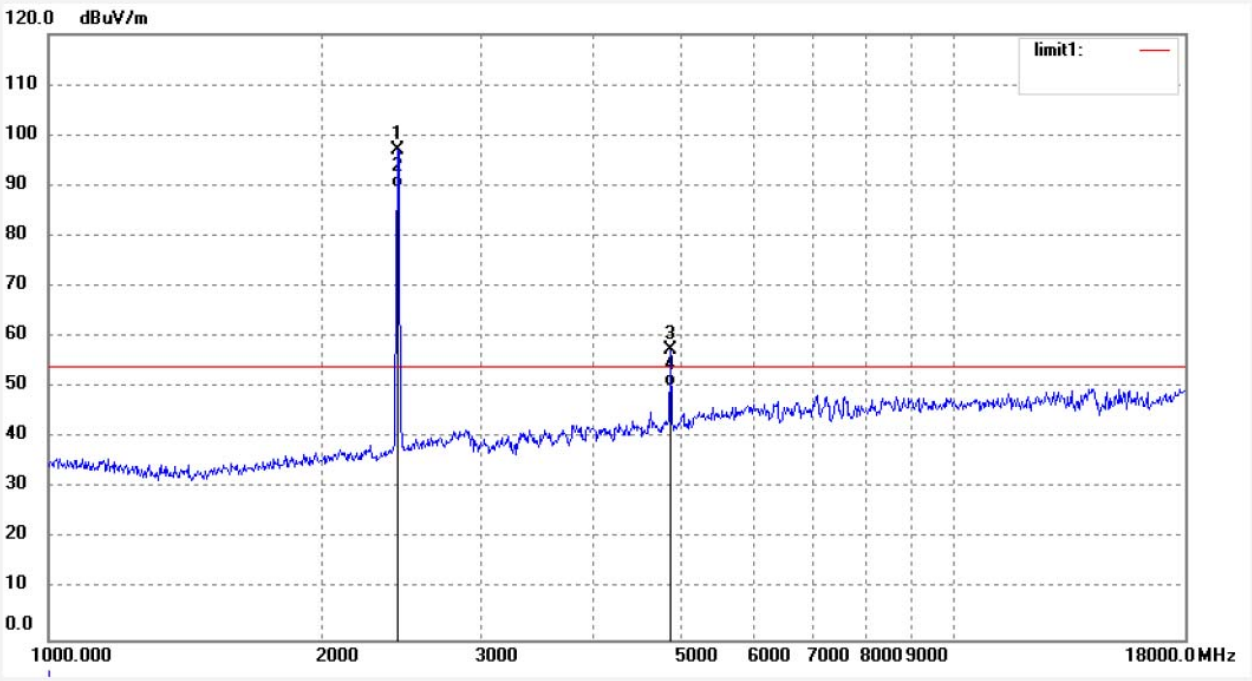
Job No.: star2017 #488	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/08/54
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	100.87	-3.77	97.10			peak			
2	2462.124	93.40	-3.77	89.63			AVG			
3	4924.248	53.40	4.06	57.46	74.00	-16.54	peak			
4	4924.248	46.17	4.06	50.23	54.00	-3.77	AVG			

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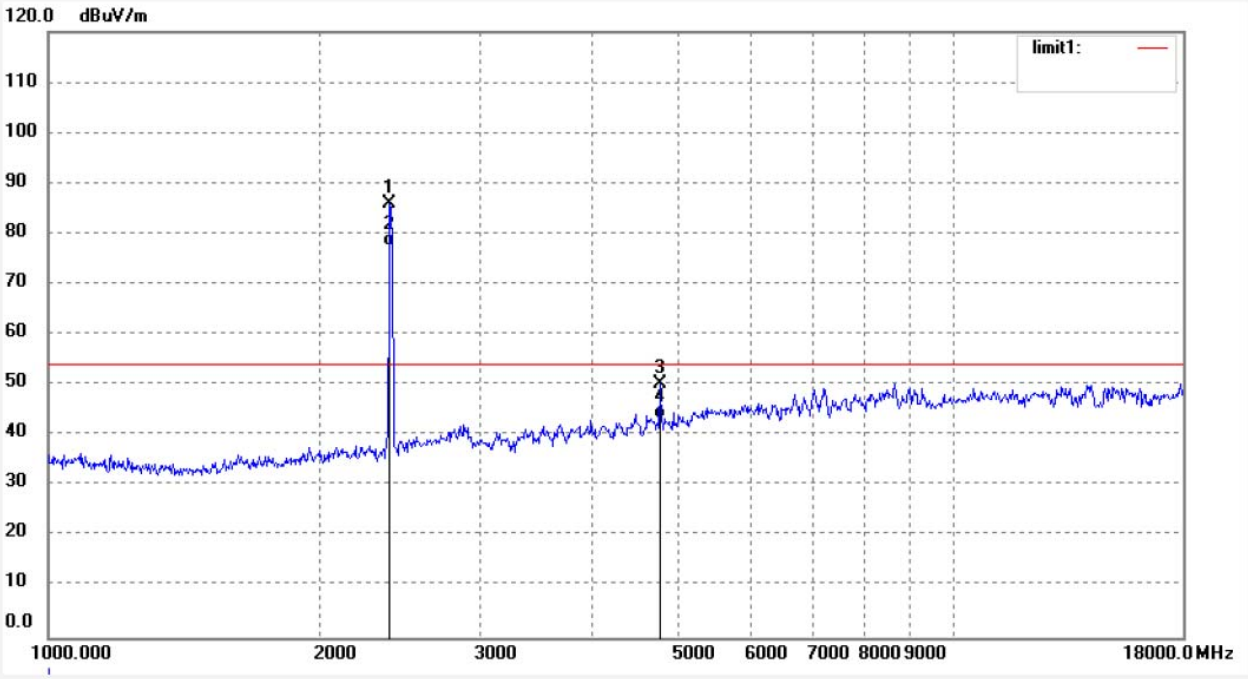
Job No.: star2017 #490	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/13/18
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.059	89.99	-3.97	86.02			peak			
2	2412.059	81.47	-3.97	77.50			AVG			
3	4824.118	46.66	3.52	50.18	74.00	-23.82	peak			
4	4824.118	39.76	3.52	43.28	54.00	-10.72	AVG			

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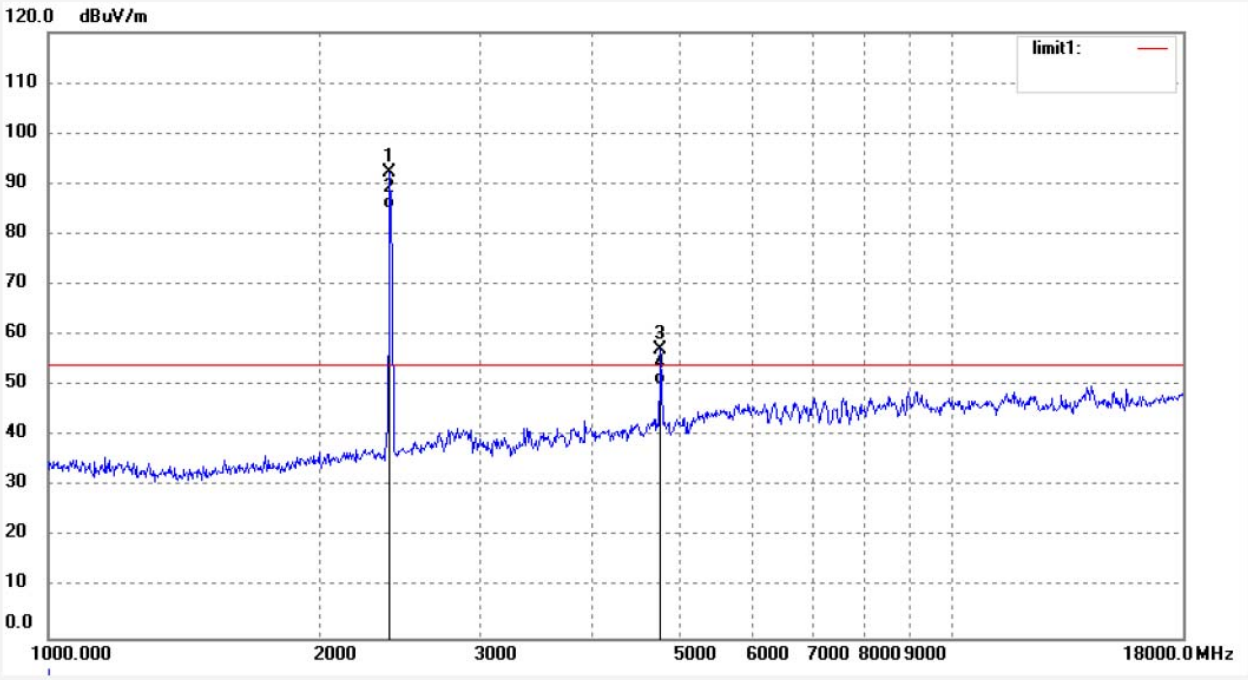
Job No.: star2017 #489	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/11/30
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.059	96.09	-3.97	92.12			peak			
2	2412.059	89.10	-3.97	85.13			AVG			
3	4824.118	53.54	3.58	57.12	74.00	-16.88	peak			
4	4824.118	46.57	3.58	50.15	54.00	-3.85	AVG			

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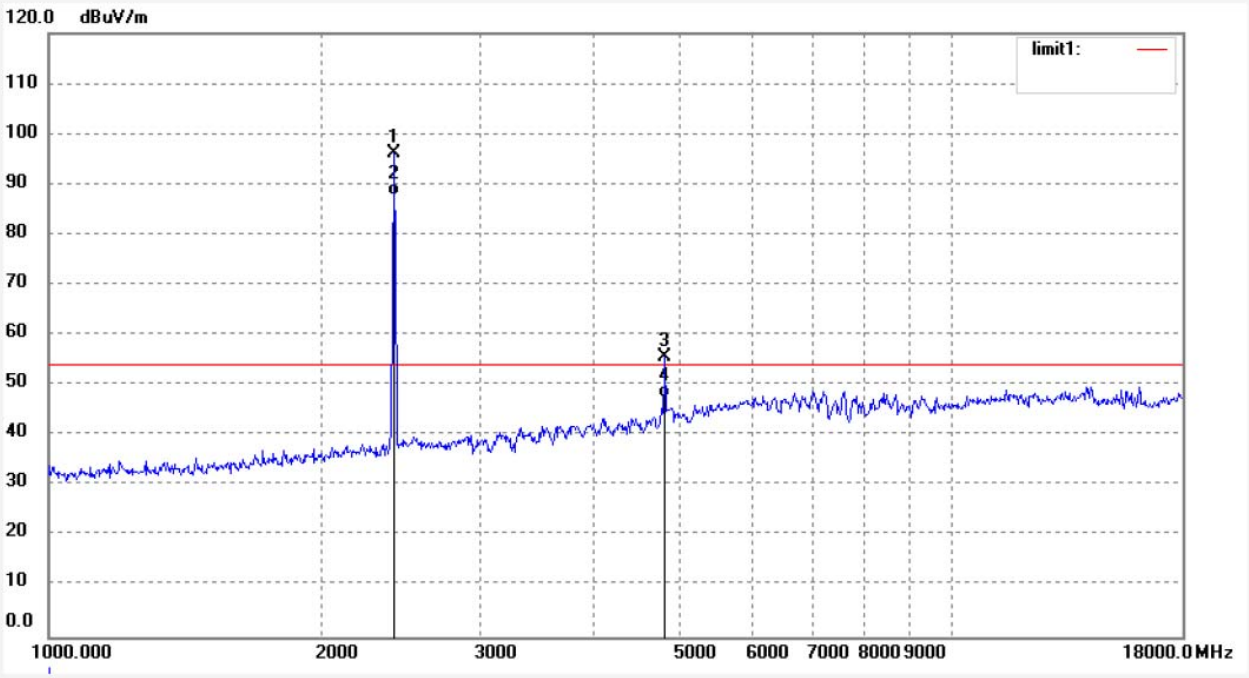
Job No.: star2017 #485
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 6 (802.11b)
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/01/09
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.100	99.98	-3.87	96.11			peak			
2	2437.100	91.70	-3.87	87.83			AVG			
3	4874.200	51.77	3.82	55.59	74.00	-18.41	peak			
4	4874.200	43.67	3.82	47.49	54.00	-6.51	AVG			

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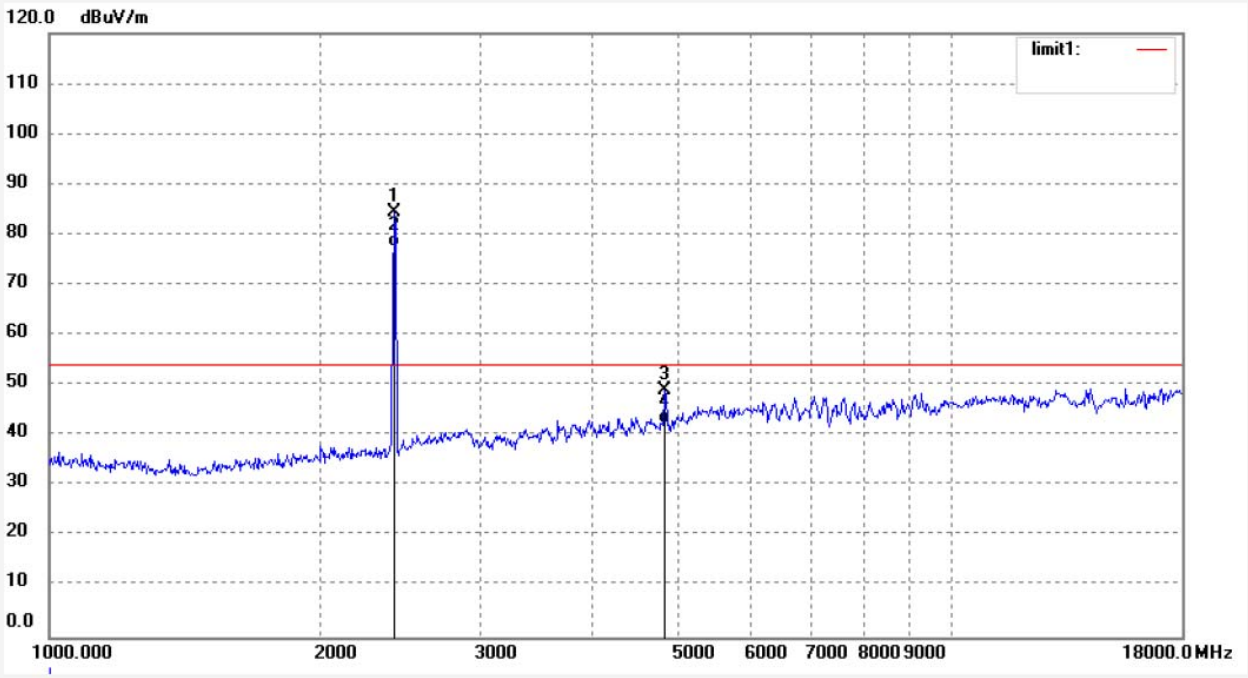
Job No.: star2017 #491
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 6 (802.11g)
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/16/27
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.121	88.14	-3.83	84.31			peak			
2	2437.121	81.47	-3.83	77.64			AVG			
3	4874.242	45.32	3.82	49.14	74.00	-24.86	peak			
4	4874.242	38.67	3.82	42.49	54.00	-11.51	AVG			

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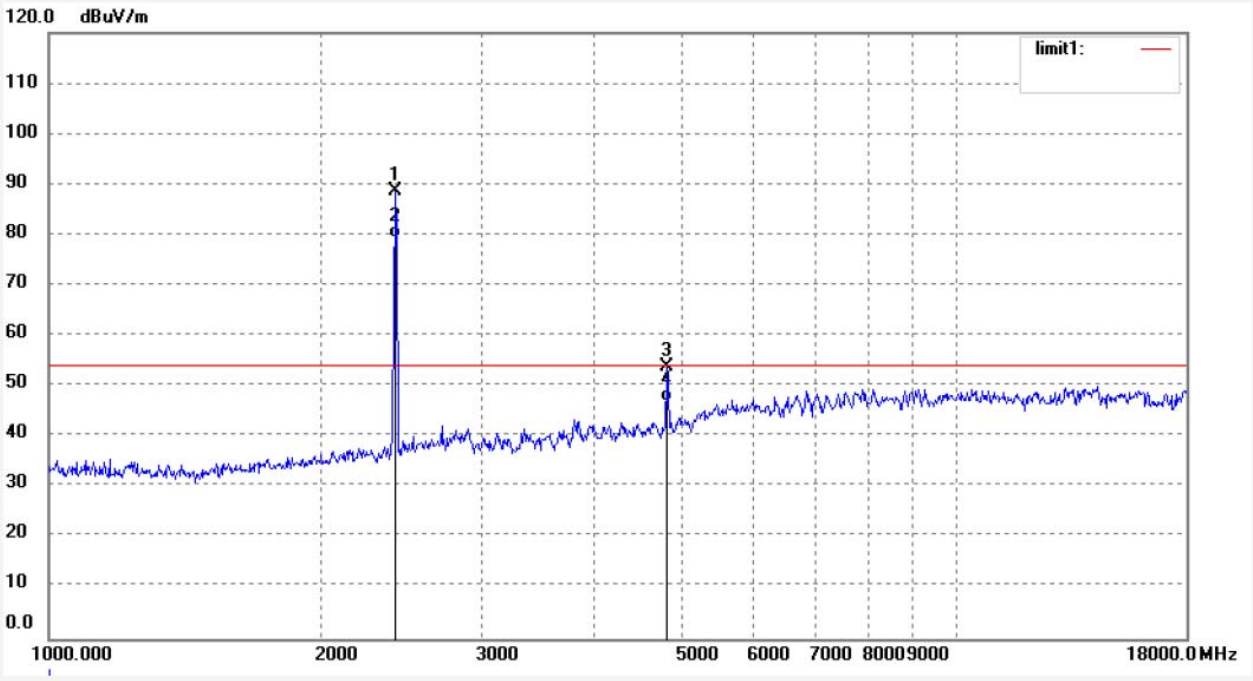
Job No.: star2017 #492	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/17/31
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.121	92.49	-3.83	88.66			peak			
2	2437.121	83.10	-3.83	79.27			AVG			
3	4874.242	50.08	3.82	53.90	74.00	-20.10	peak			
4	4874.242	43.27	3.82	47.09	54.00	-6.91	AVG			

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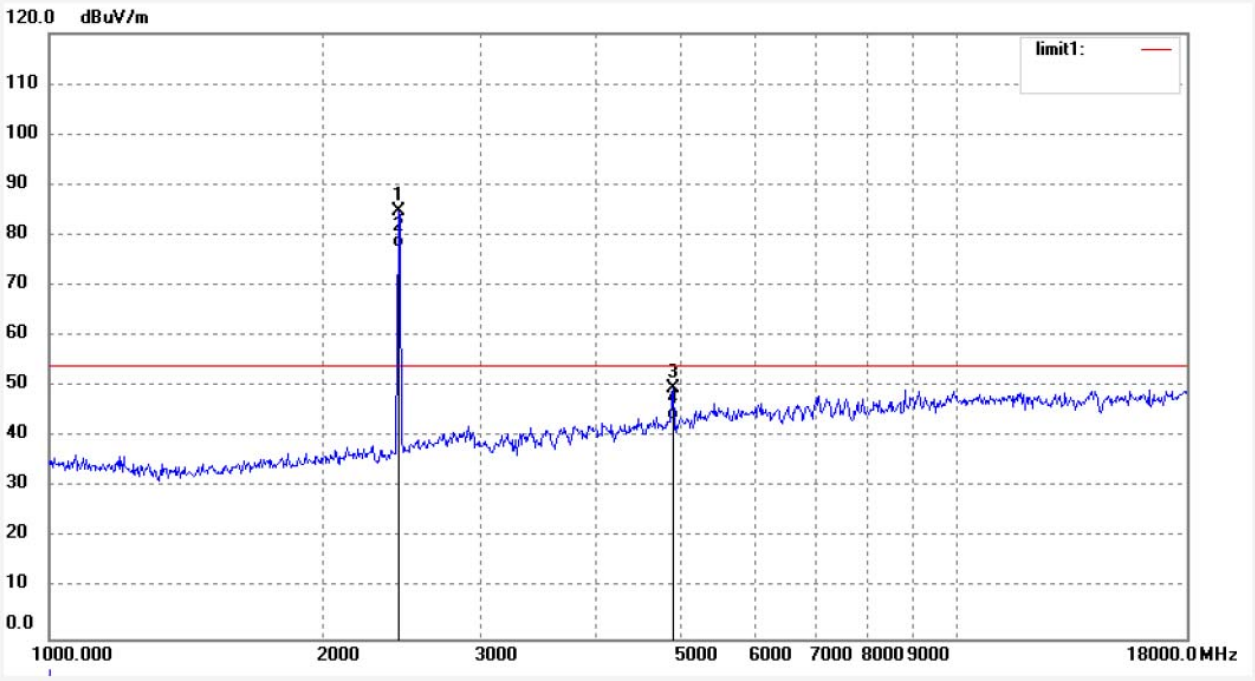
Job No.: star2017 #494	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/21/35
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	88.57	-3.77	84.80			peak			
2	2462.124	81.27	-3.77	77.50			AVG			
3	4924.248	45.45	4.11	49.56	74.00	-24.44	peak			
4	4924.248	39.13	4.11	43.24	54.00	-10.76	AVG			

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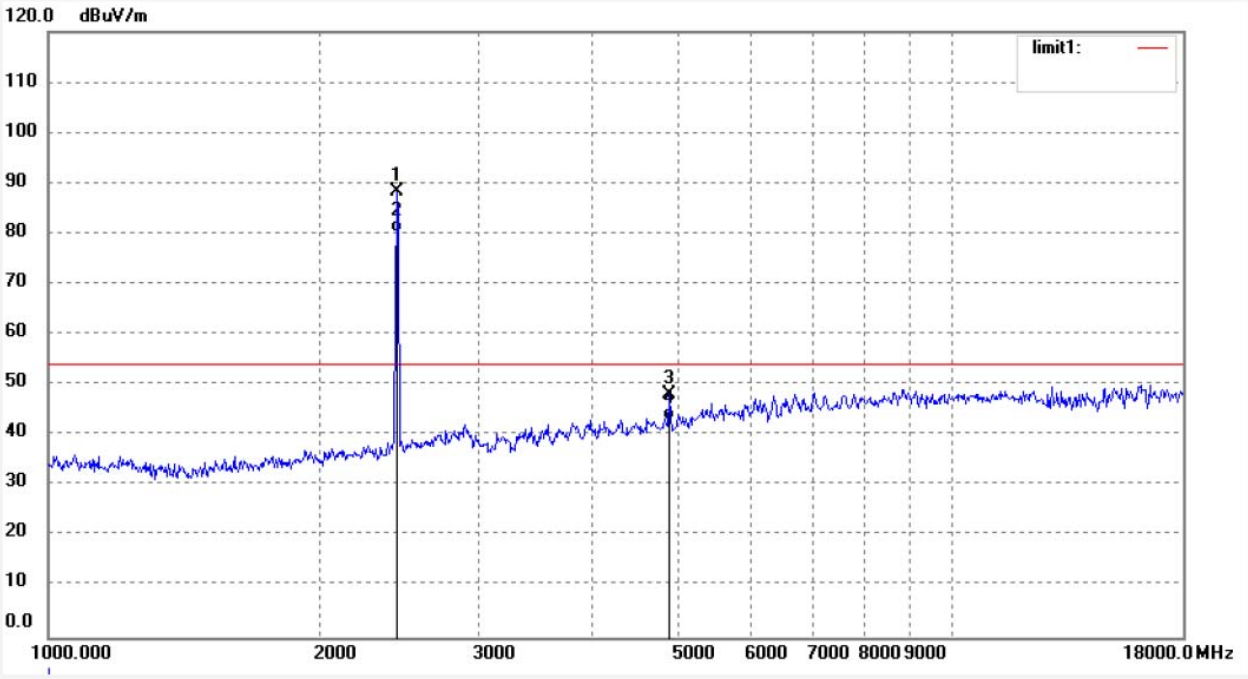
Job No.: star2017 #493	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/20/02
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	92.17	-3.77	88.40			peak			
2	2462.124	84.00	-3.77	80.23			AVG			
3	4924.248	44.03	4.06	48.09	74.00	-25.91	peak			
4	4924.248	39.10	4.06	43.16	54.00	-10.84	AVG			

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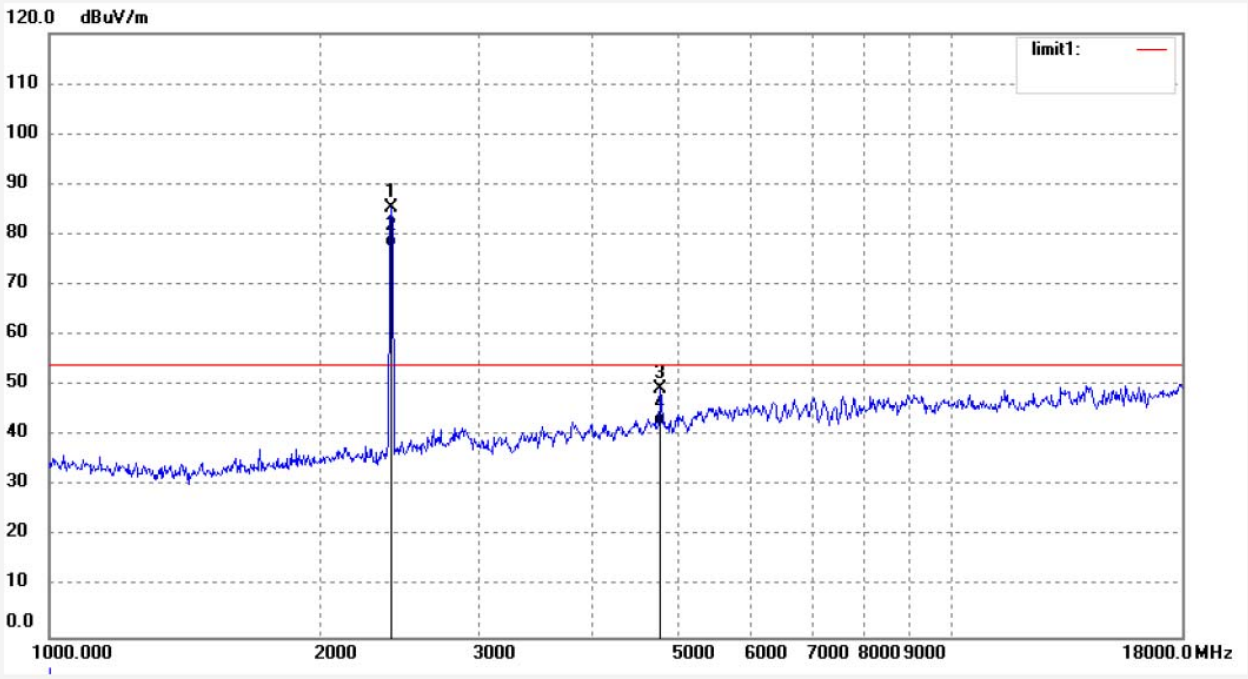
Job No.: star2017 #495
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 1 (802.11n)20MHz
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/24/34
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.119	89.15	-3.93	85.22			peak			
2	2412.119	81.37	-3.93	77.44			AVG			
3	4824.238	45.63	3.58	49.21	74.00	-24.79	peak			
4	4824.238	38.47	3.58	42.05	54.00	-11.95	AVG			

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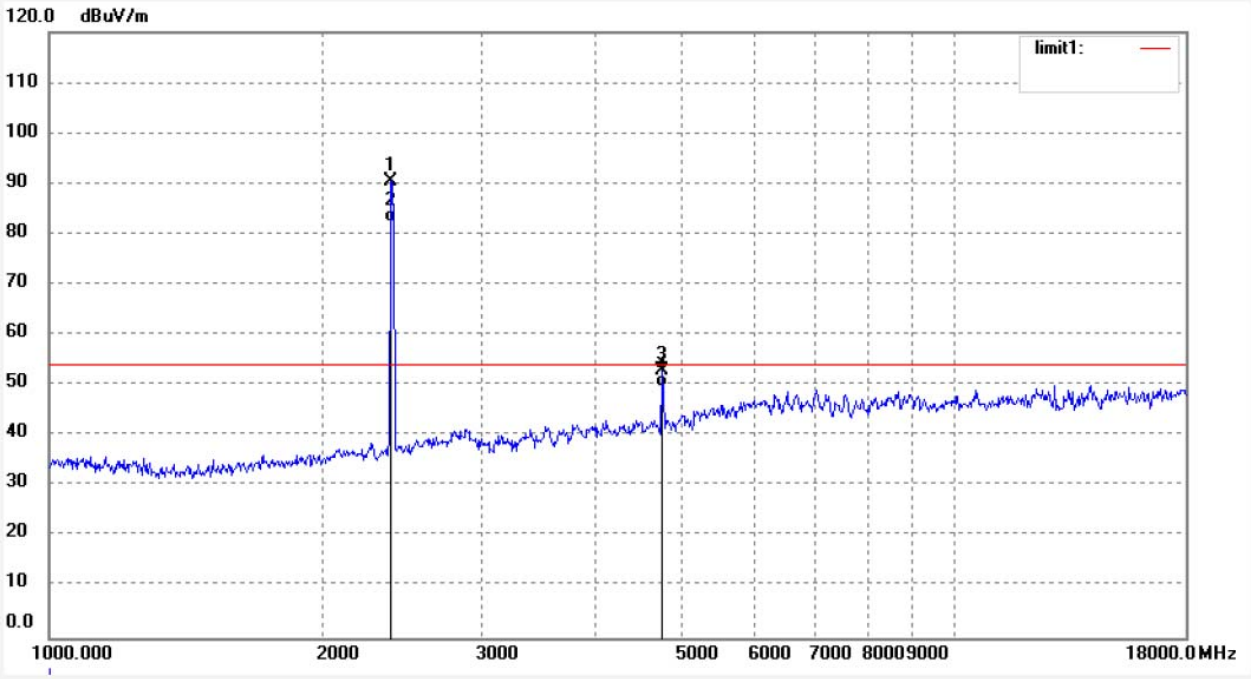
Job No.: star2017 #496
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 1 (802.11n)20MHz
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/25/56
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.159	94.41	-3.97	90.44			peak			
2	2412.159	86.40	-3.97	82.43			AVG			
3	4824.318	49.25	3.58	52.83	74.00	-21.17	peak			
4	4824.318	46.20	3.58	49.78	54.00	-4.22	AVG			

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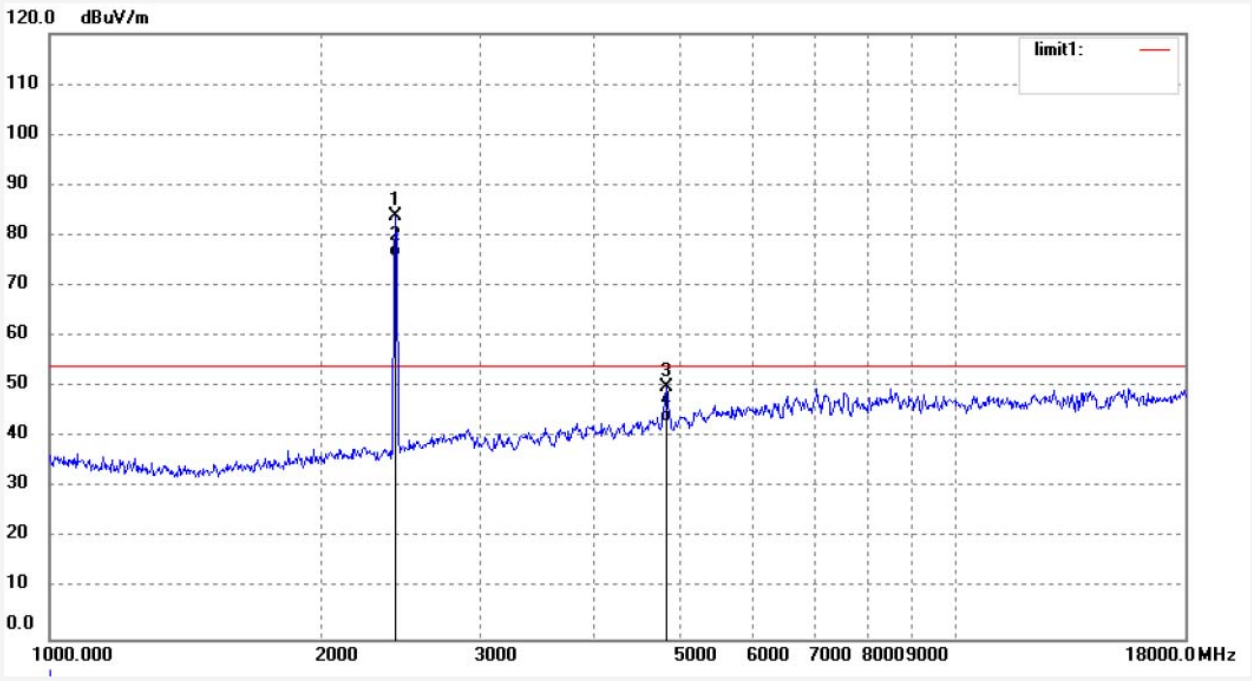
Job No.: star2017 #498
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 6 (802.11n)20MHz
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/30/26
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.100	87.72	-3.87	83.85			peak			
2	2437.100	79.70	-3.87	75.83			AVG			
3	4874.200	46.20	3.75	49.95	74.00	-24.05	peak			
4	4874.200	39.42	3.75	43.17	54.00	-10.83	AVG			

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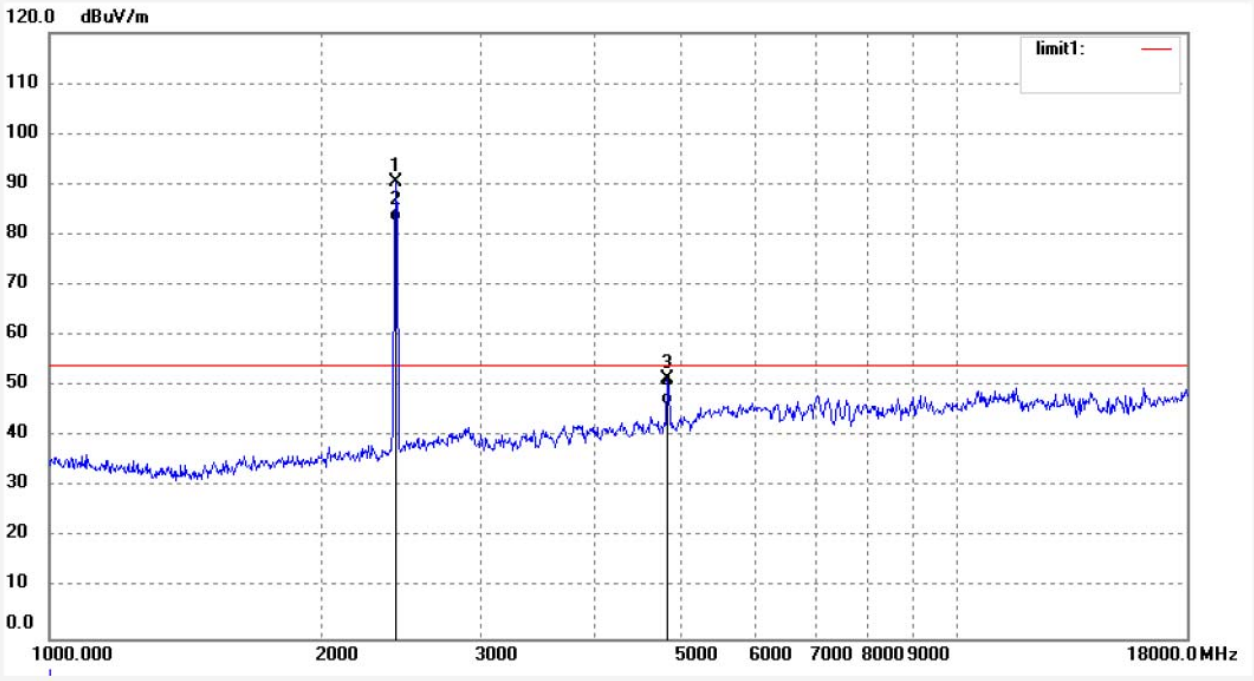
Job No.: star2017 #497	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/28/08
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 6 (802.11n)20MHz	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.100	94.44	-3.87	90.57			peak			
2	2437.100	86.47	-3.87	82.60			AVG			
3	4874.200	47.60	3.75	51.35	74.00	-22.65	peak			
4	4874.200	42.59	3.75	46.34	54.00	-7.66	AVG			

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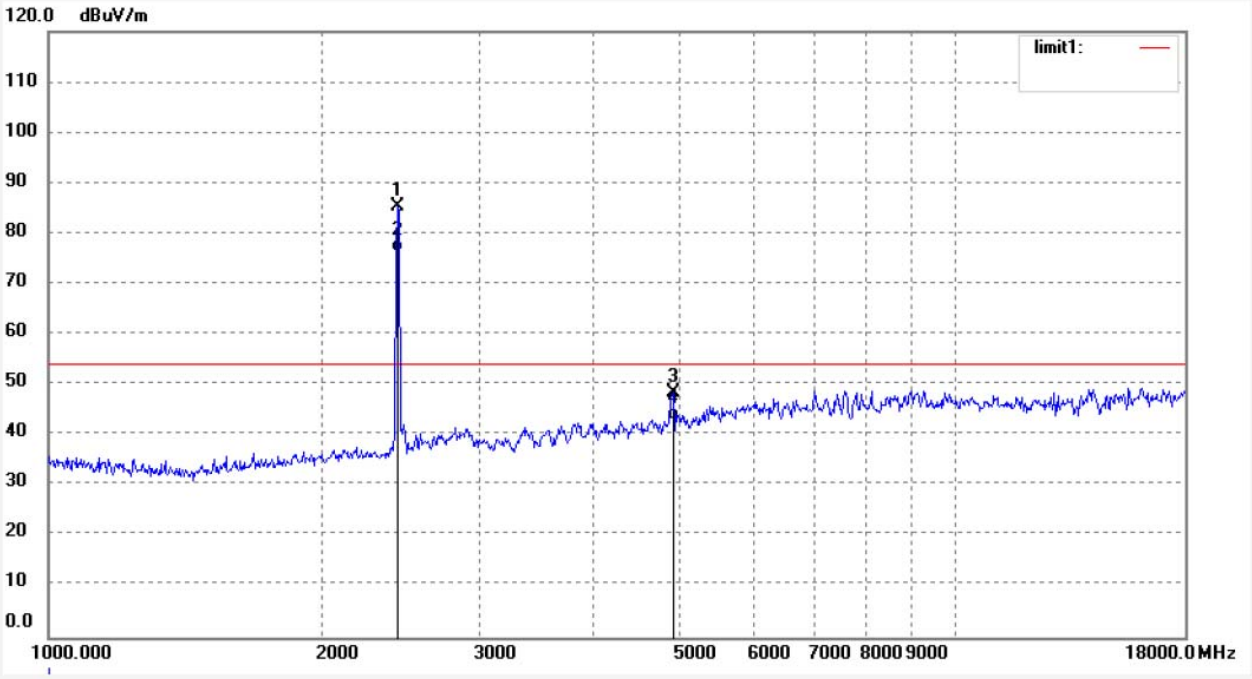
Job No.: star2017 #499	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/32/27
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 11 (802.11n)20MHz	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	89.27	-3.77	85.50			peak			
2	2462.124	80.00	-3.77	76.23			AVG			
3	4924.248	44.34	4.18	48.52	74.00	-25.48	peak			
4	4924.248	38.74	4.18	42.92	54.00	-11.08	AVG			

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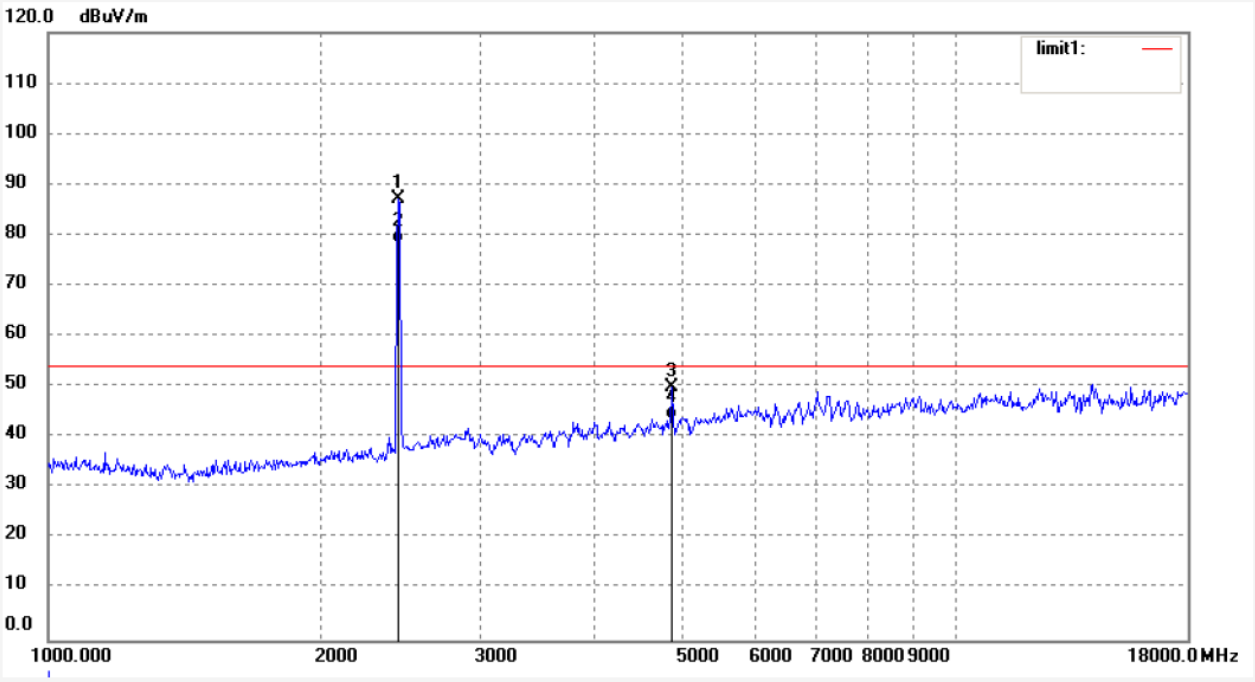
Job No.: star2017 #500
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 11 (802.11n)20MHz
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/33/58
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.124	90.91	-3.77	87.14			peak			
2	2462.124	82.17	-3.77	78.40			AVG			
3	4924.248	45.91	4.06	49.97	74.00	-24.03	peak			
4	4924.248	39.57	4.06	43.63	54.00	-10.37	AVG			

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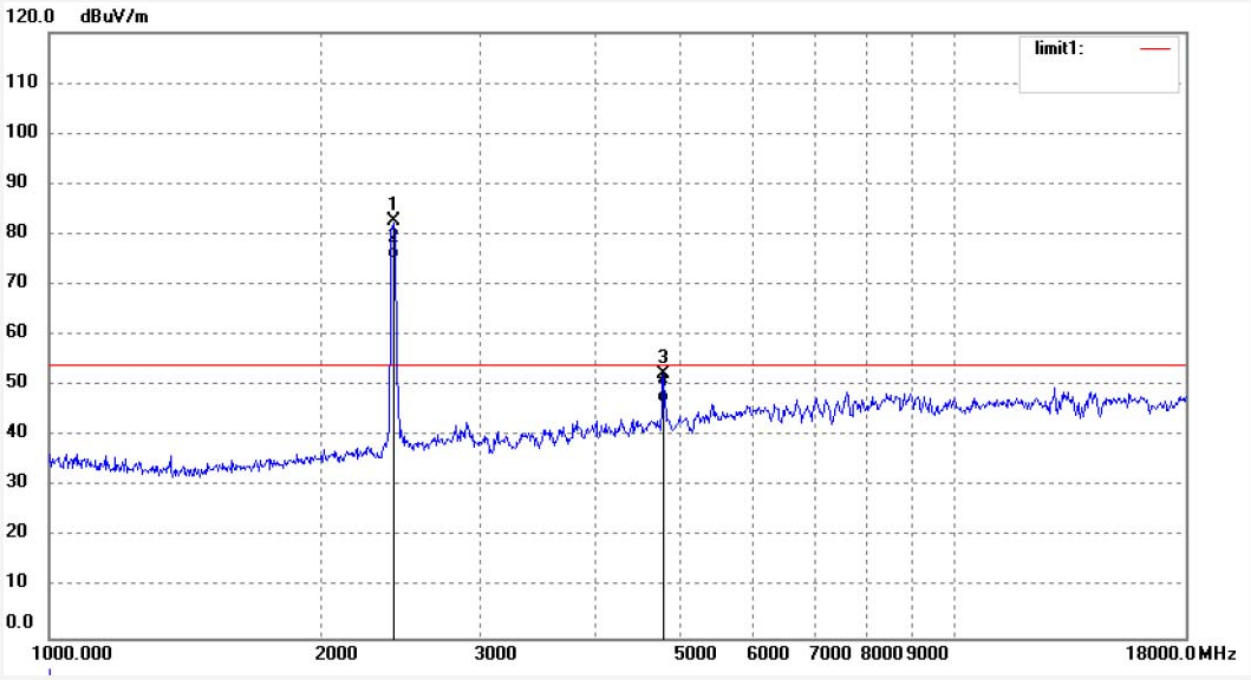
Job No.: star2017 #502
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 3 (802.11n)40MHz
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/40/30
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.100	86.44	-3.93	82.51			peak			
2	2422.100	79.10	-3.93	75.17			AVG			
3	4844.200	48.57	3.63	52.20	74.00	-21.80	peak			
4	4844.200	43.17	3.63	46.80	54.00	-7.20	AVG			

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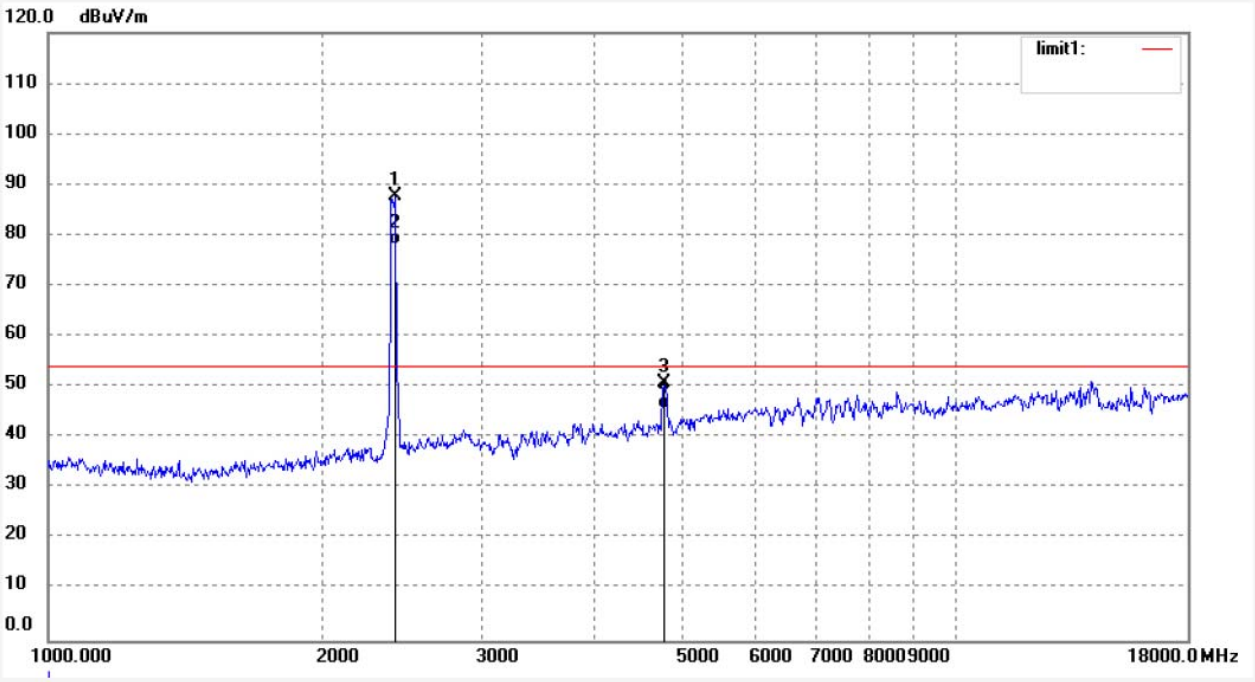
Job No.: star2017 #501
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 3 (802.11n)40MHz
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/38/52
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.100	91.60	-3.87	87.73			peak			
2	2422.100	82.14	-3.87	78.27			AVG			
3	4844.200	47.07	3.63	50.70	74.00	-23.30	peak			
4	4844.200	42.06	3.63	45.69	54.00	-8.31	AVG			

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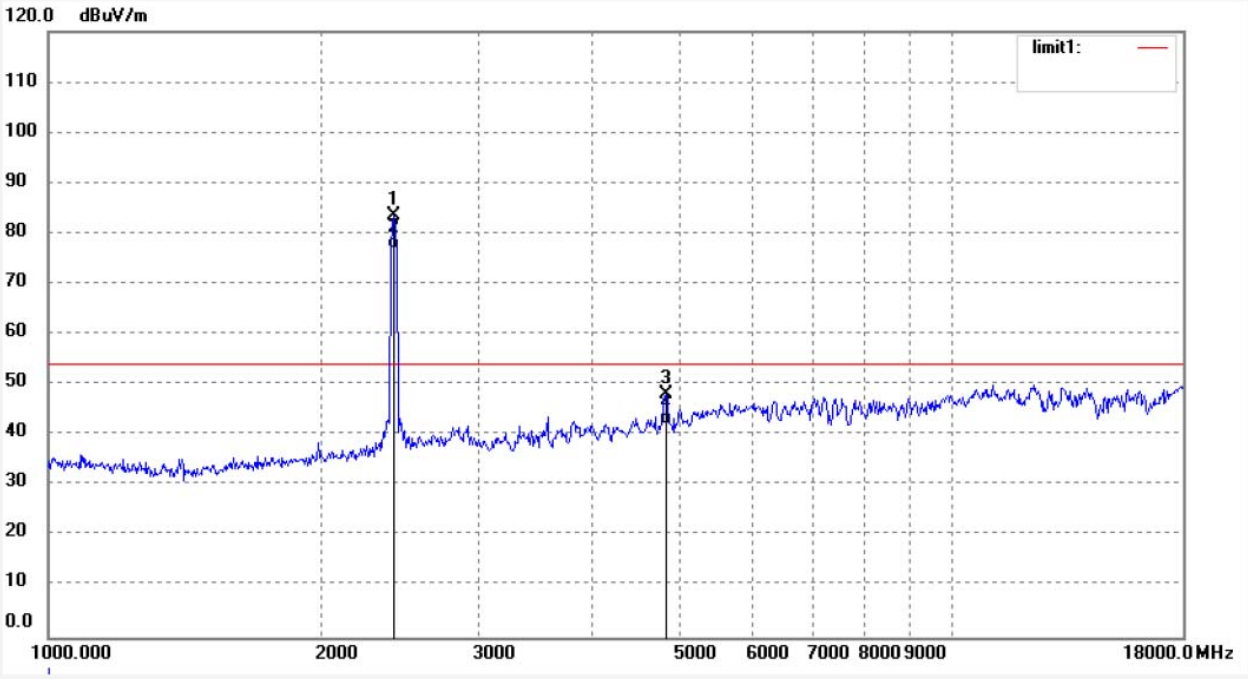
Job No.: star2017 #503
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 6 (802.11n)40MHz
Model: K1
Manufacturer: Chuango

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/42/21
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.121	87.42	-3.83	83.59			peak			
2	2437.121	80.70	-3.83	76.87			AVG			
3	4874.242	44.13	3.88	48.01	74.00	-25.99	peak			
4	4874.242	38.14	3.88	42.02	54.00	-11.98	AVG			

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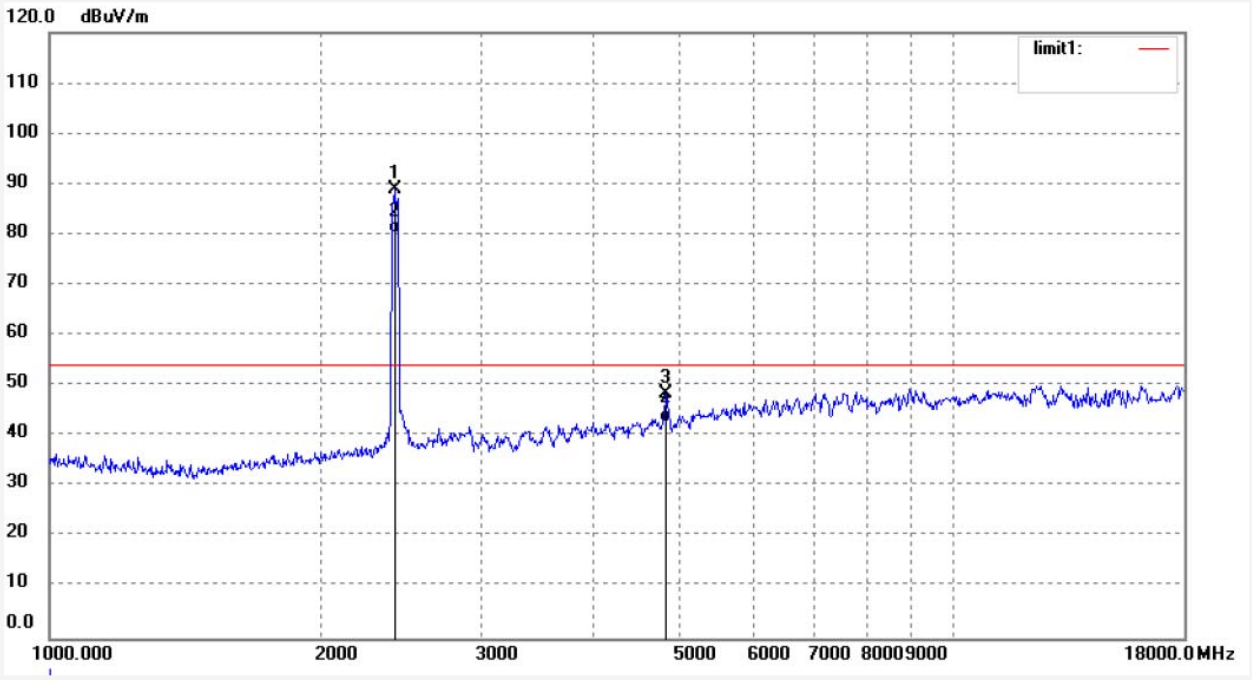
Job No.: star2017 #504	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/44/06
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 6 (802.11n)40MHz	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.121	92.69	-3.87	88.82			peak			
2	2437.121	84.17	-3.87	80.30			AVG			
3	4874.242	44.80	3.75	48.55	74.00	-25.45	peak			
4	4874.242	39.10	3.75	42.85	54.00	-11.15	AVG			

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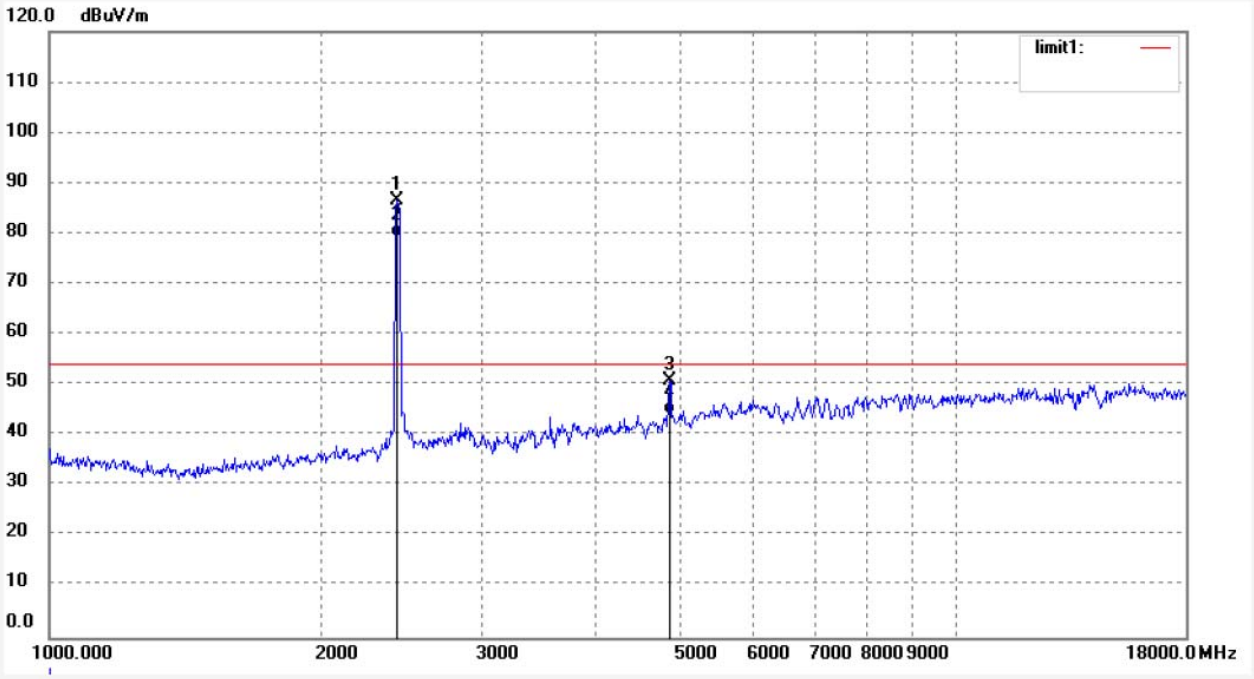
Job No.: star2017 #506	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2017/05/18
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 19/48/31
EUT: K1 SMARTHOME DIY KIT	Engineer Signature: star
Mode: TX Channel 9 (802.11n)40MHz	Distance: 3m
Model: K1	
Manufacturer: Chuango	

Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.124	90.46	-3.80	86.66			peak			
2	2452.124	83.17	-3.80	79.37			AVG			
3	4904.248	46.96	3.94	50.90	74.00	-23.10	peak			
4	4904.248	40.26	3.94	44.20	54.00	-9.80	AVG			

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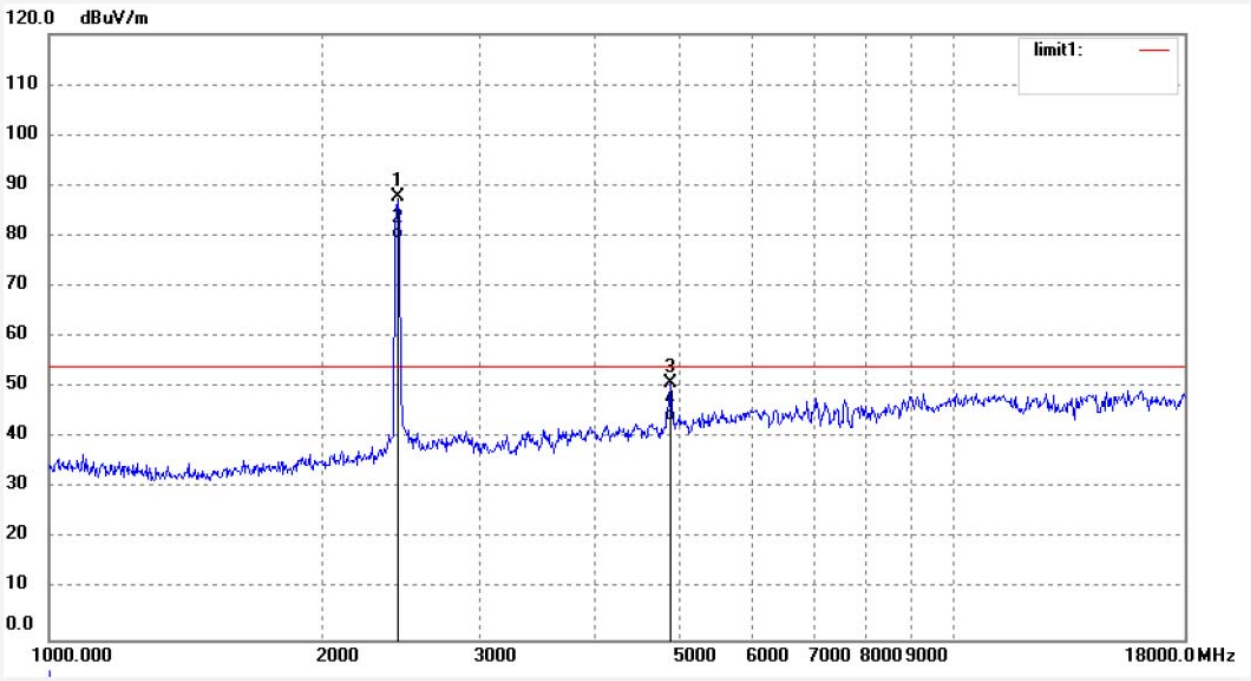
Job No.: star2017 #505
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: K1 SMARTHOME DIY KIT
Mode: TX Channel 9 (802.11n)40MHz
Model: K1
Manufacturer: Chuango

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2017/05/18
Time: 19/46/59
Engineer Signature: star
Distance: 3m

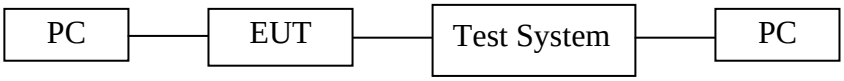
Note: Report No.:ATE20170747



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.124	91.66	-3.77	87.89			peak			
2	2452.124	83.17	-3.77	79.40			AVG			
3	4904.248	46.74	4.00	50.74	74.00	-23.26	peak			
4	4904.248	39.47	4.00	43.47	54.00	-10.53	AVG			

12.99% OCCUPIED BANDWIDTH

12.1.Block Diagram of Test Setup



12.2.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.3.Operating Condition of EUT

12.3.1.Setup the EUT and simulator as shown as Section 12.1.

12.3.2.Turn on the power of all equipment.

12.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

12.4.Test Procedure

12.4.1.The transmitter output was connected to the spectrum analyzer through a low loss cable. The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

12.4.2.The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

12.4.3.A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

12.4.4.Set SPA “Meas” function, Select “Occupied Bandwidth” function, Select “99% Power Bandwidth”. The frequency of the upper and lower markers indicating the edges of the transmitters “99% Power” emission bandwidth shall be recorded to automate by SPA.

12.5.Measurement Result

The test was performed with 802.11b		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	15.038
Middle	2437	15.018
High	2462	14.973

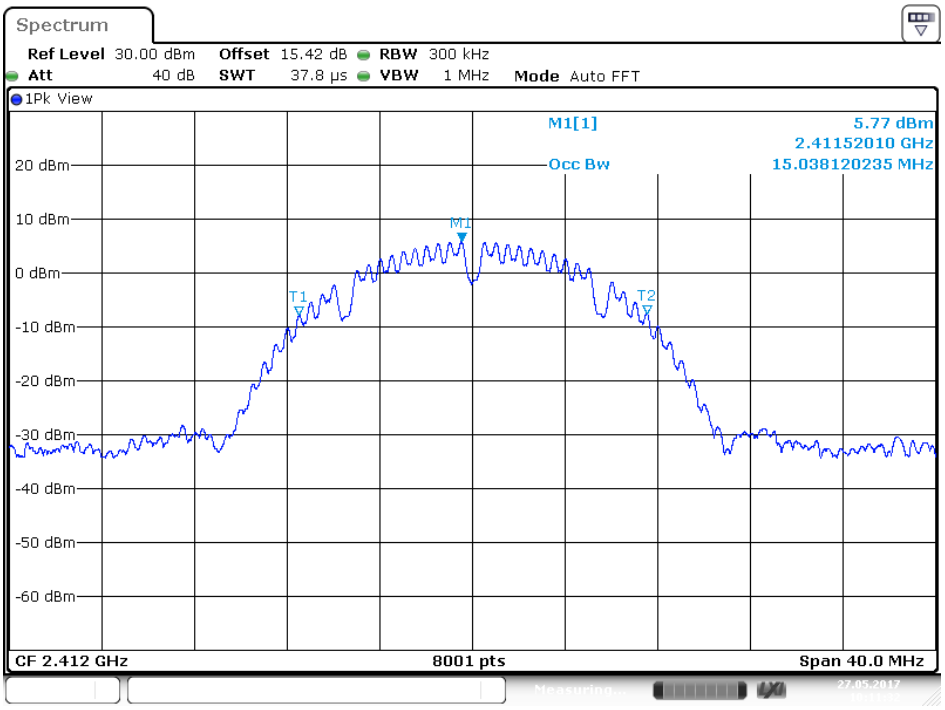
The test was performed with 802.11g		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	16.773
Middle	2437	16.968
High	2462	16.703

The test was performed with 802.11n (Bandwidth: 20 MHz)		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	18.063
Middle	2437	17.993
High	2462	17.958

The test was performed with 802.11n (Bandwidth: 40 MHz)		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2422	36.455
Middle	2437	36.435
High	2452	36.455

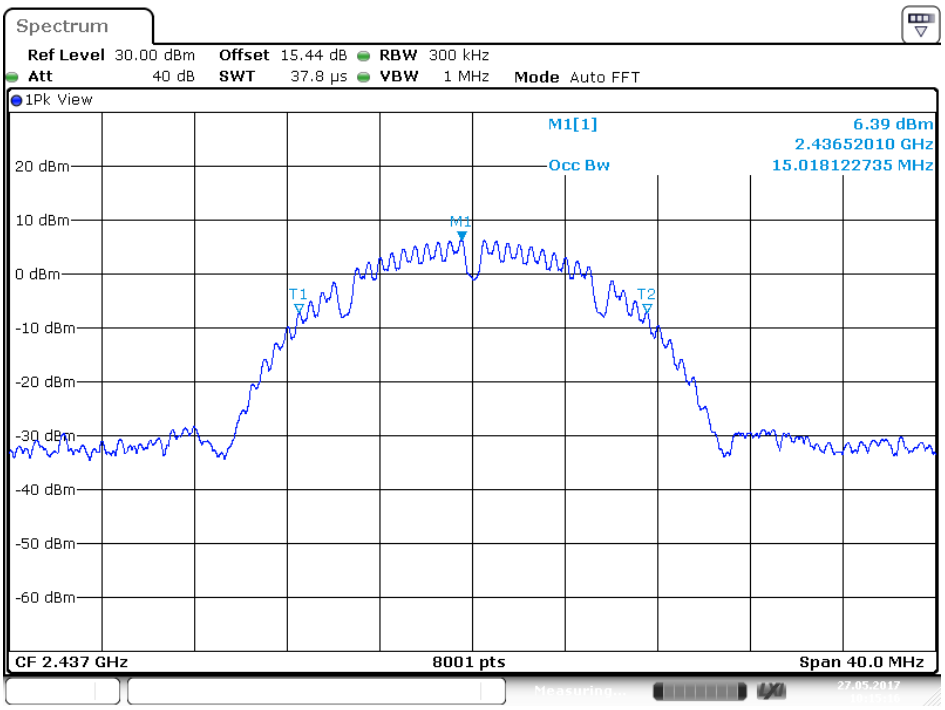
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



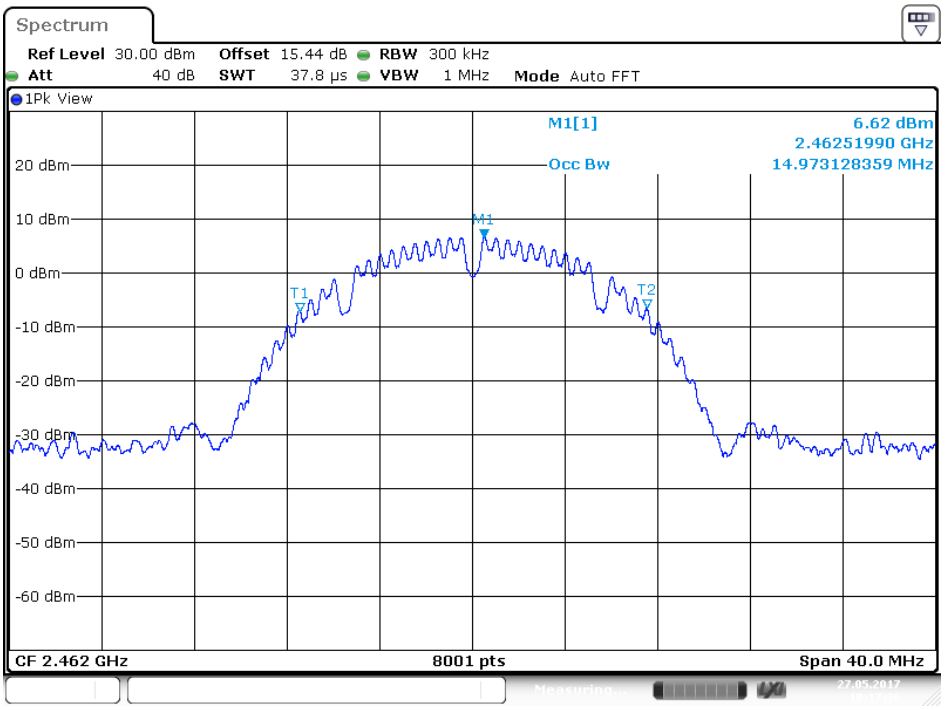
Date: 27.MAY.2017 10:11:33

802.11b Channel Middle 2437MHz



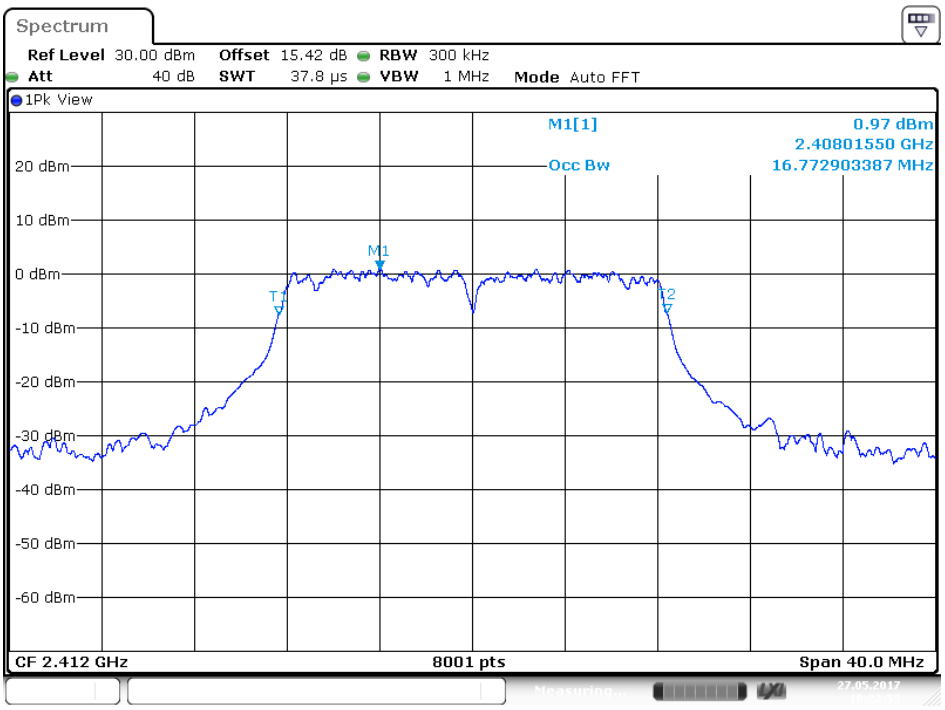
Date: 27.MAY.2017 10:15:17

802.11b Channel High 2462MHz



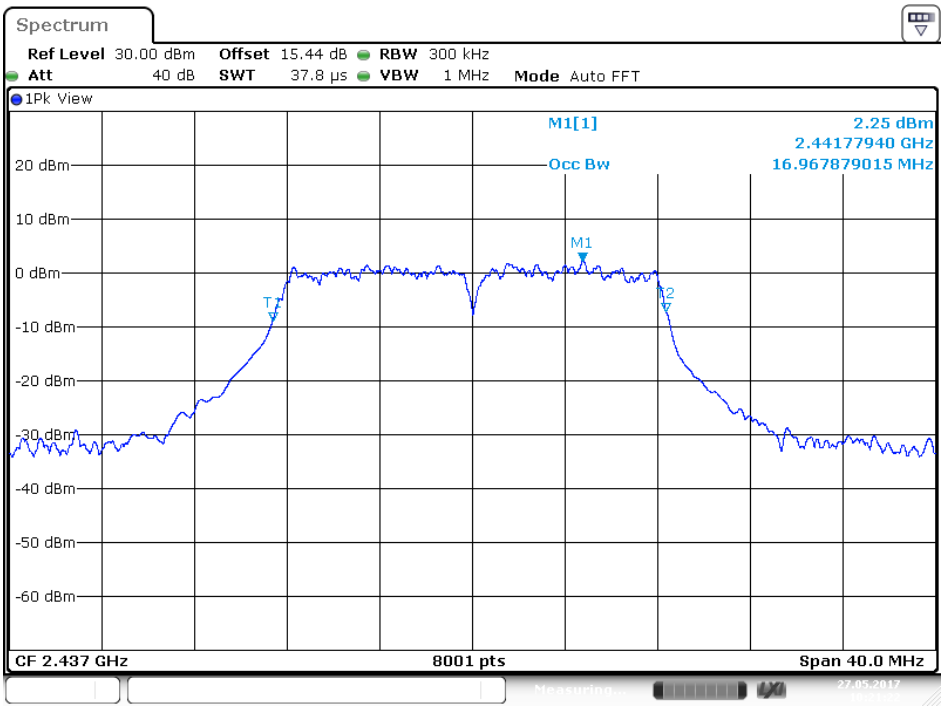
Date: 27.MAY.2017 10:17:36

802.11g Channel Low 2412MHz



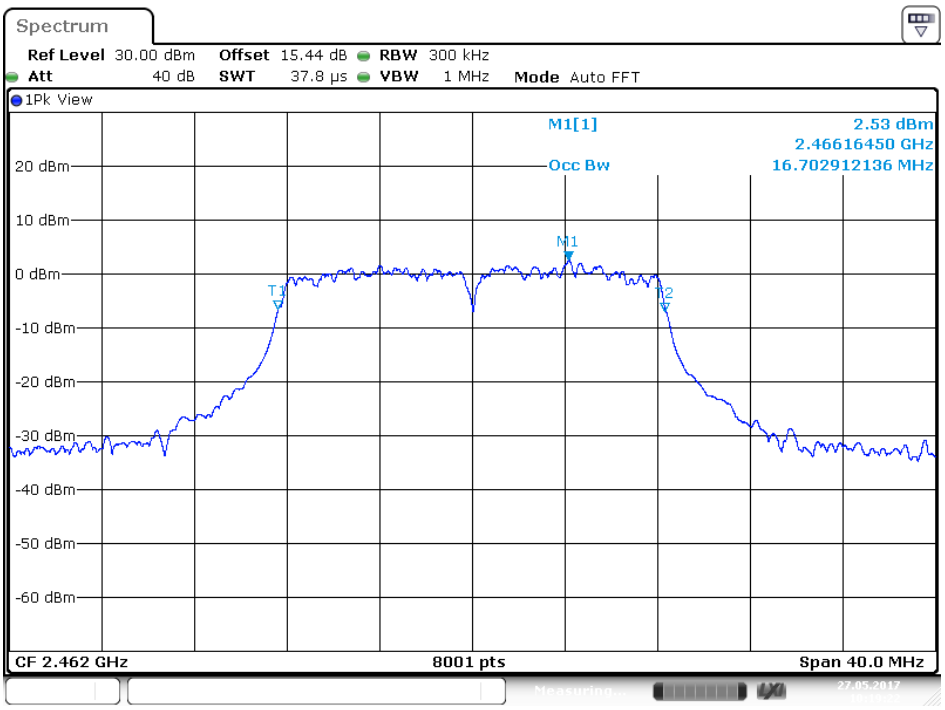
Date: 27.MAY.2017 10:22:56

802.11g Channel Middle 2437MHz



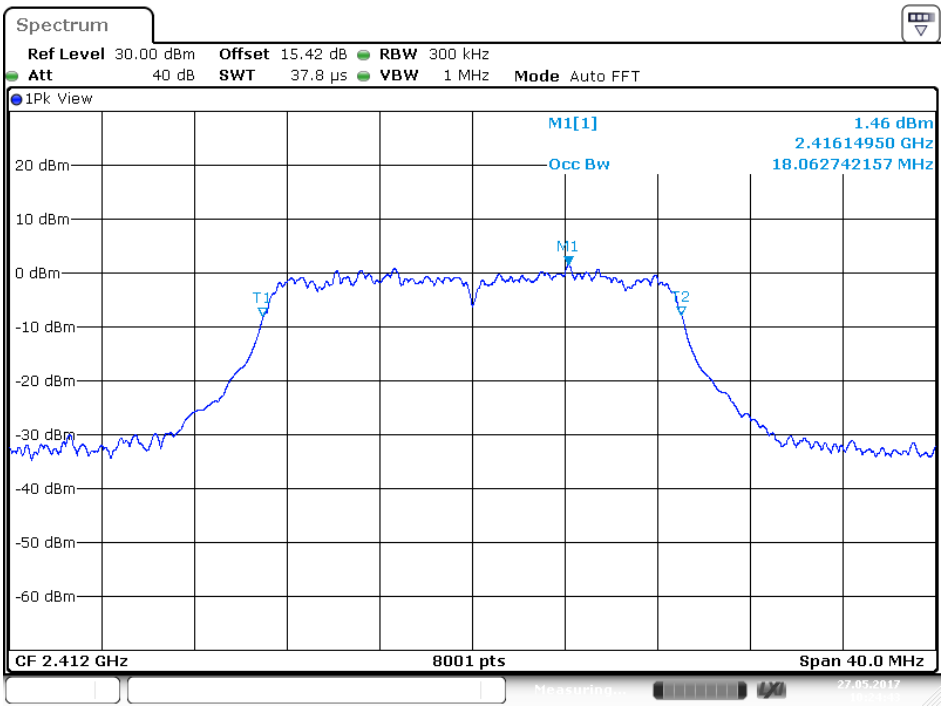
Date: 27.MAY.2017 10:21:22

802.11g Channel High 2462MHz



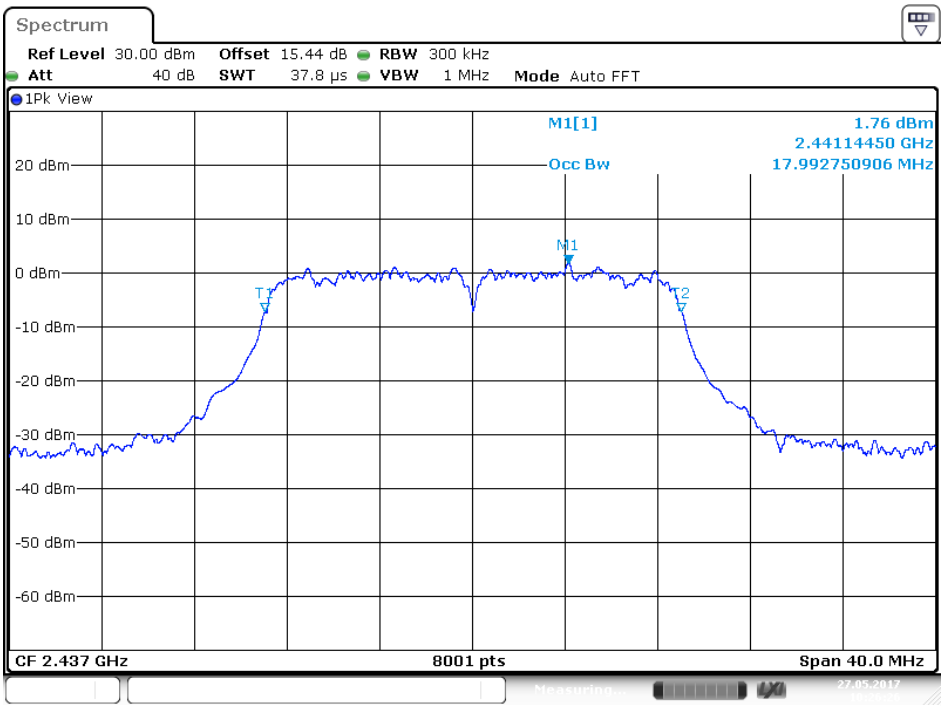
Date: 27.MAY.2017 10:19:23

802.11n Channel Low 2412MHz (20MHz)



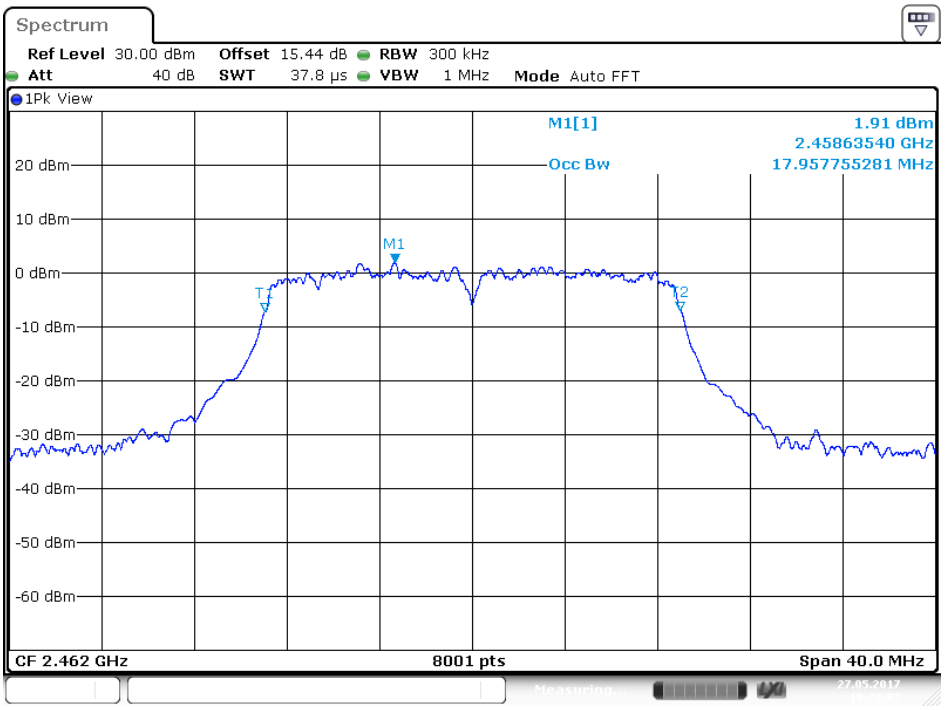
Date: 27.MAY.2017 10:24:44

802.11n Channel Middle 2437MHz(20MHz)



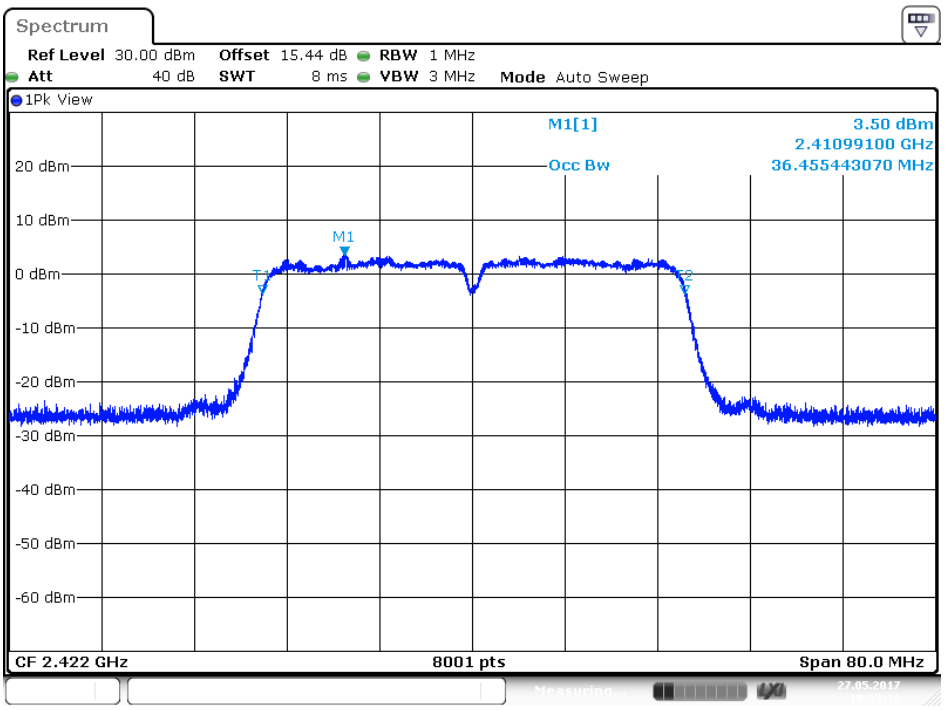
Date: 27.MAY.2017 10:26:27

802.11n Channel High 2462MHz(20MHz)



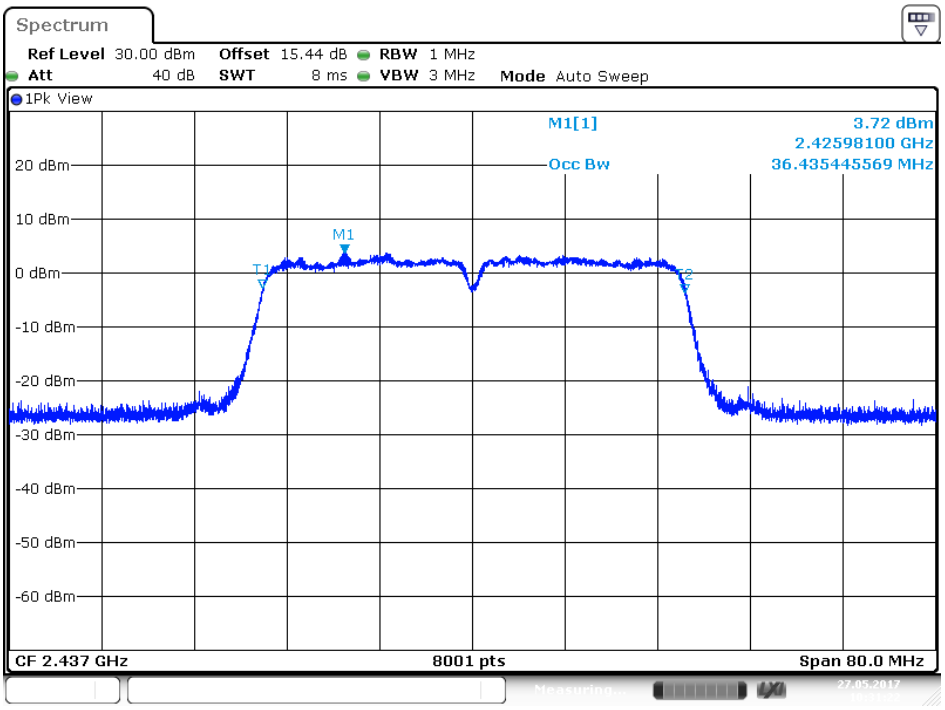
Date: 27.MAY.2017 10:28:03

802.11n Channel Low 2422MHz (40MHz)



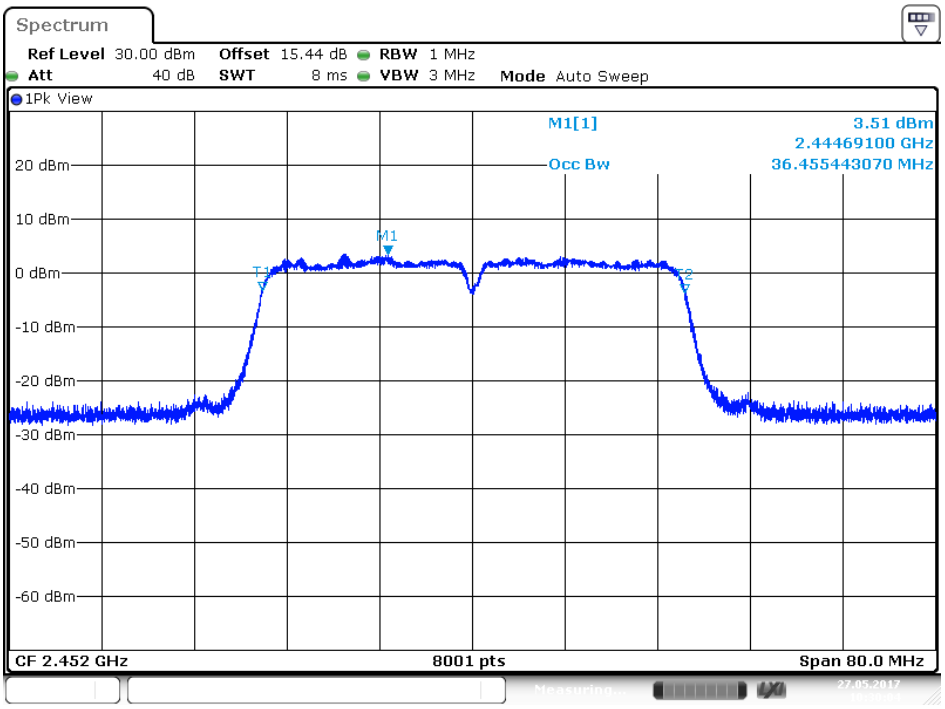
Date: 27.MAY.2017 10:33:13

802.11n Channel Middle 2437MHz(40MHz)



Date: 27.MAY.2017 10:31:22

802.11n Channel High 2452MHz(40MHz)



Date: 27.MAY.2017 10:30:05

13. ANTENNA REQUIREMENT

13.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.