Test Report No.10044733 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10044733AppendixD)

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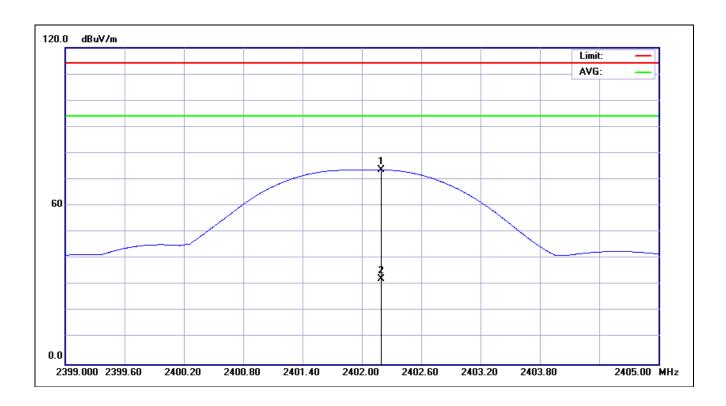
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Spurious Emissions, Fundamental and Band Edges



TUV Taiwan 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 17:13:07

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

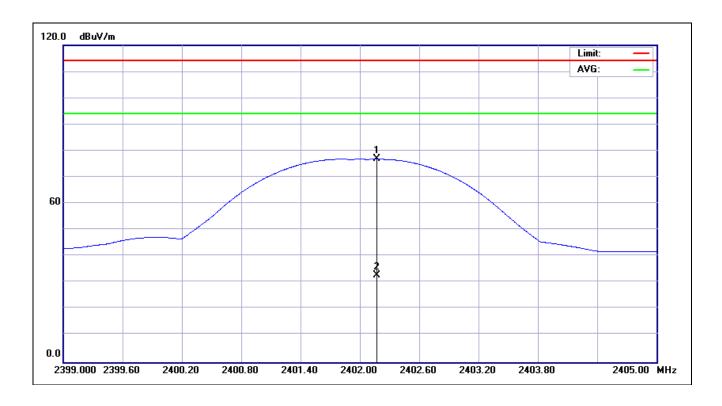
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2402.192	-7.97	81.61	73.64	114.00	-40.36	peak			
2	2402.192	-7.97	40.18	32.21	94.00	-61.79	AVG			





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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 17:14:29

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

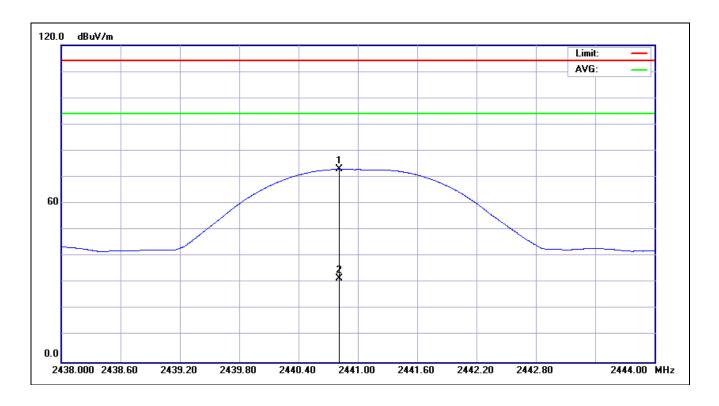
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2402.174	-7.97	84.82	76.85	114.00	-37.15	peak			
2	2402.174	-7.97	40.94	32.97	94.00	-61.03	AVG			





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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 17:11:39

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

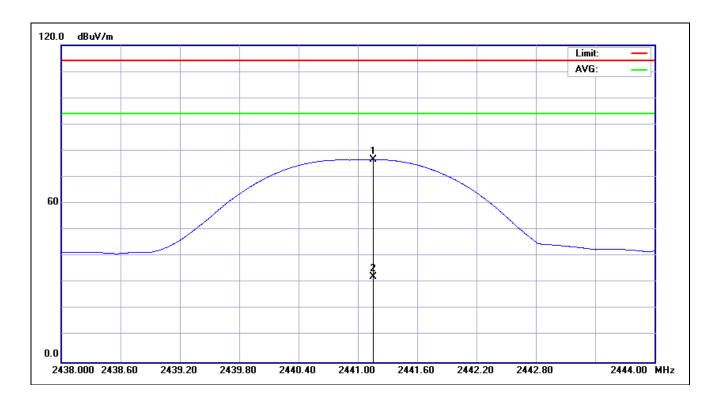
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2440.814	-7.92	80.92	73.00	114.00	-41.00	peak			
2	2440.814	-7.92	39.49	31.57	94.00	-62.43	AVG			





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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 17:10:11

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

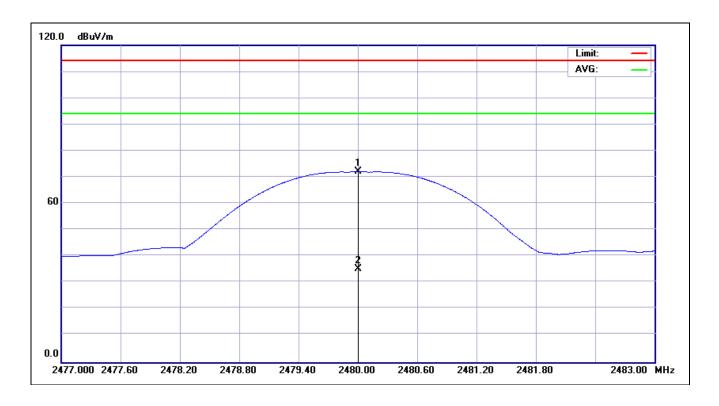
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2441.156	-7.92	84.57	76.65	114.00	-37.35	peak			
2	2441.156	-7.92	40.06	32.14	94.00	-61.86	AVG			





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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 17:03:41

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

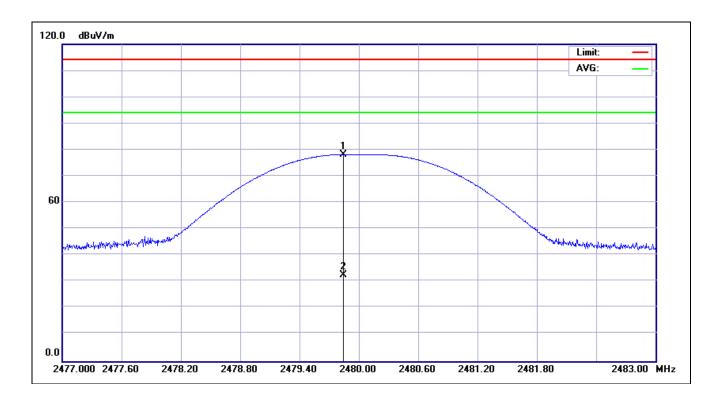
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2480.006	-7.88	79.97	72.09	114.00	-41.91	peak			
2	2480.006	-7.88	43.26	35.38	94.00	-58.62	AVG			





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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC 15.249_2.4-2.5G_3m PK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 17:08:02

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

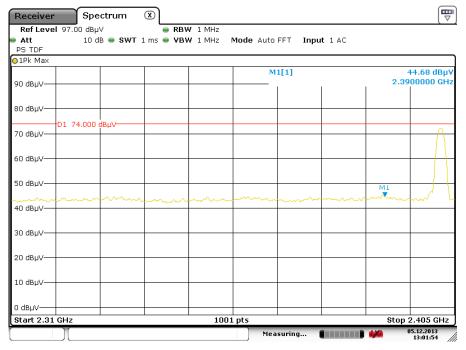
Model No.: TK1001 Test Engineer: Hugo Chang

Test Mode: BT-2480-TX

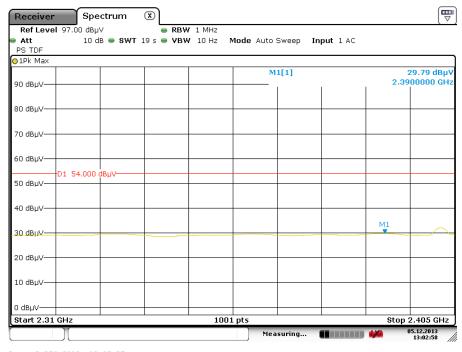
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2479.844	-7.88	86.09	78.21	114.00	-35.79	peak			
2	2479.844	-7.88	40.30	32.42	94.00	-61.58	AVG			

Radiated Bandedge

Low Channel (Hor)

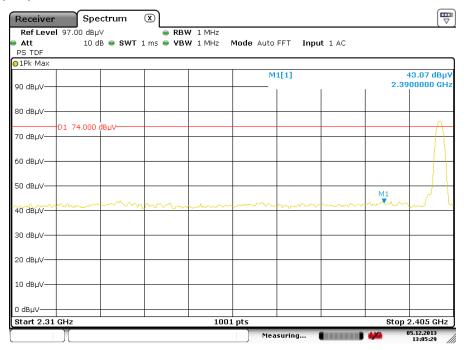


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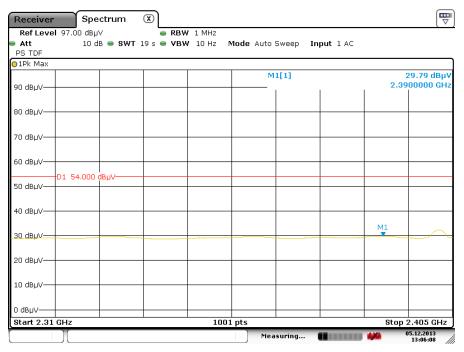


Date: 5.DEC.2013 13:02:57

Low Channel (Ver)

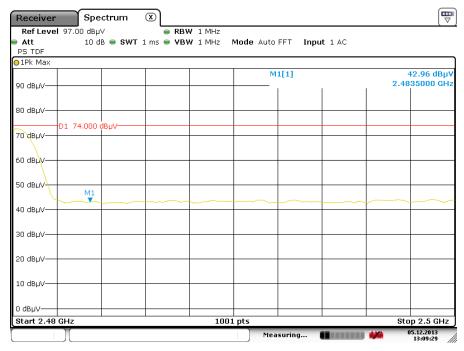


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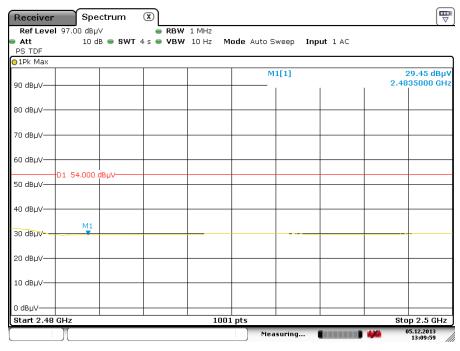


Date: 5.DEC.2013 13:06:08

High Channel (Hor)

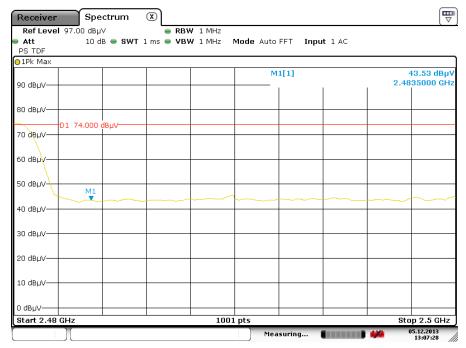


Date: 5.DEC.2013 13:09:29

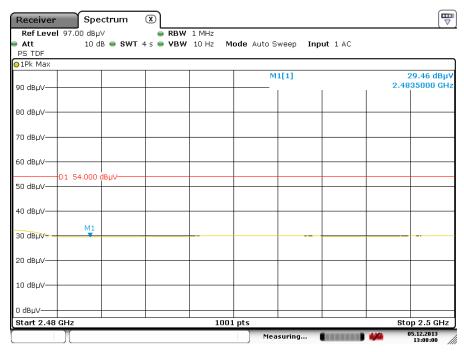


Date: 5.DEC.2013 13:09:59

High Channel (Ver)



Date: 5.DEC.2013 13:07:28



Date: 5.DEC.2013 13:08:00

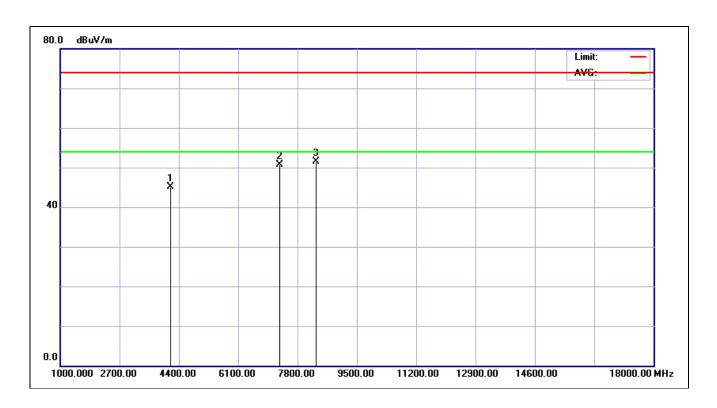
Spurious Emissions, TX Mode, 1-18G



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 14:34:16

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53% Model No.: TK1001 Test Engineer: Hugo Chang

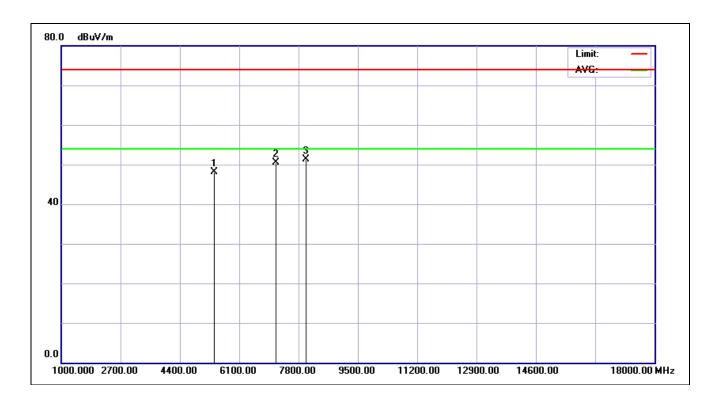
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4162.000	-4.67	49.80	45.13	74.00	-28.87	peak	100	27	
2	7290.000	5.67	45.12	50.79	74.00	-23.21	peak	100	76	
3	8327.000	6.30	45.13	51.43	74.00	-22.57	peak	100	285	



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 14:35:24

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

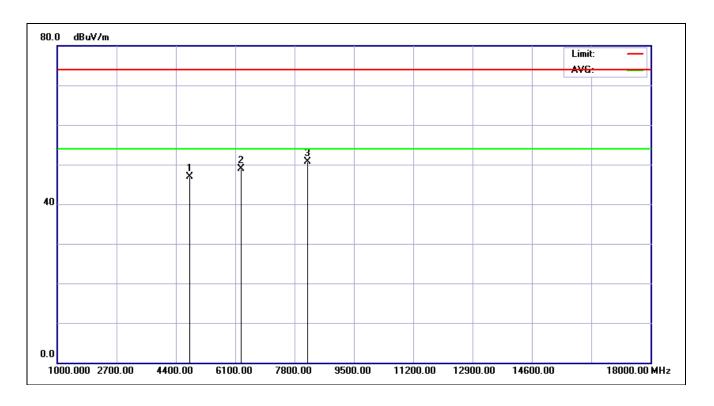
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	5386.000	-0.21	48.35	48.14	74.00	-25.86	peak	100	113	
2	7154.000	5.29	45.28	50.57	74.00	-23.43	peak	100	122	
3	8021.000	6.03	45.19	51.22	74.00	-22.78	peak	100	273	



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 14:30:46

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

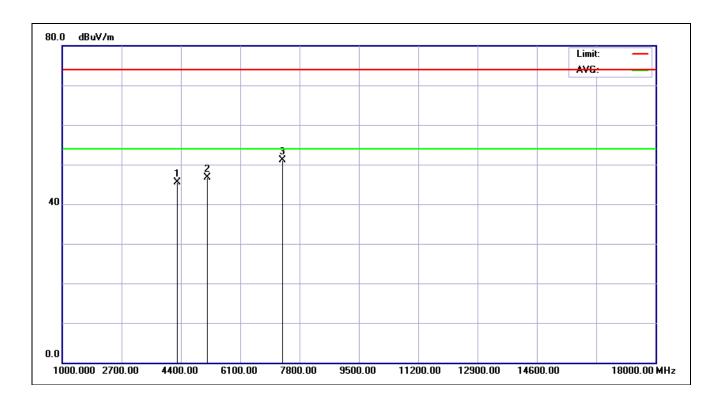
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4791.000	-2.62	49.47	46.85	74.00	-27.15	peak	100	102	
2	6270.000	4.65	44.33	48.98	74.00	-25.02	peak	100	188	
3	8174.000	6.16	44.64	50.80	74.00	-23.20	peak	100	0	



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 14:31:53

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

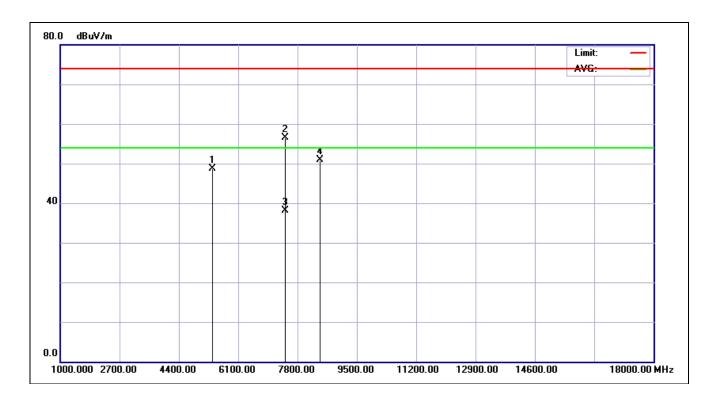
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4298.000	-4.15	49.71	45.56	74.00	-28.44	peak	100	209	
2	5165.000	-1.29	48.04	46.75	74.00	-27.25	peak	100	151	
3	7307.000	5.73	45.41	51.14	74.00	-22.86	peak	100	319	



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 14:01:07

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

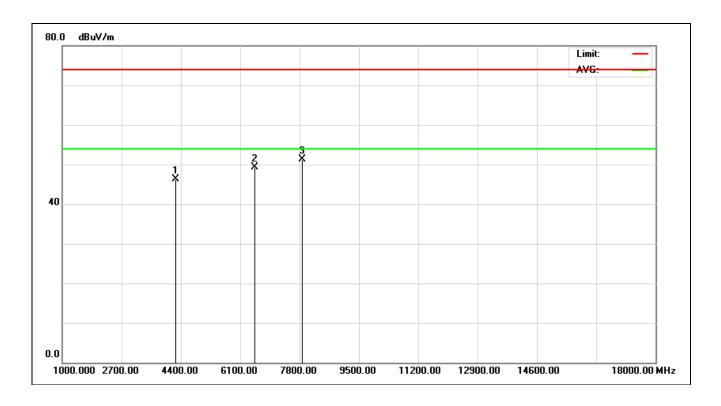
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	5352.000	-0.38	48.99	48.61	74.00	-25.39	peak	100	120	
2	7443.000	6.10	50.36	56.46	74.00	-17.54	peak	100	141	
3	7443.000	6.10	31.97	38.07	54.00	-15.93	AVG	100	141	
4	8446.000	6.39	44.46	50.85	74.00	-23.15	peak	100	241	



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 13:59:36

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 19.8($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4247.000	-4.34	50.72	46.38	74.00	-27.62	peak	100	144	
2	6525.000	5.43	43.85	49.28	74.00	-24.72	peak	100	341	
3	7868.000	6.07	45.20	51.27	74.00	-22.73	peak	100	74	

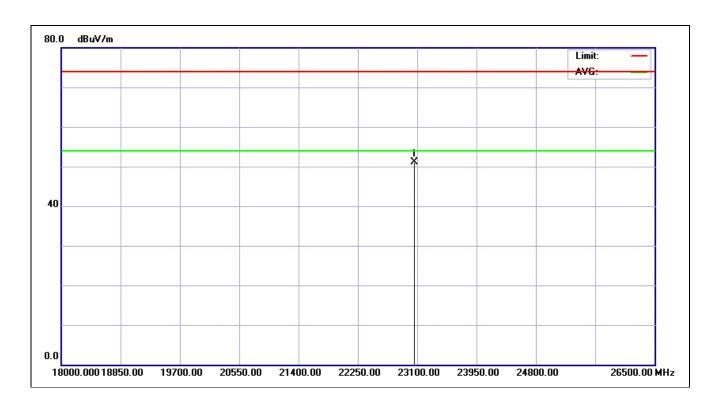
Spurious Emissions, TX Mode, 18-26G



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 15:32:09

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

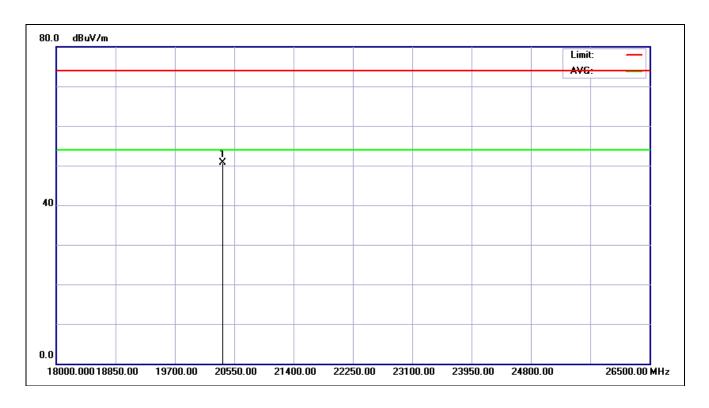
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23057.500	30.27	20.85	51.12	74.00	-22.88	peak			



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 15:32:36

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

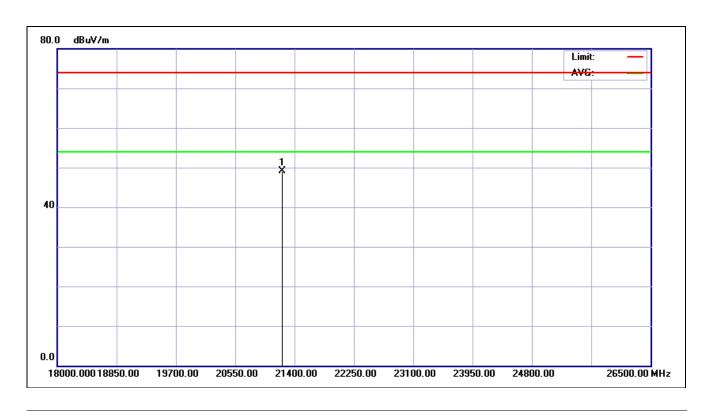
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	20380.000	29.51	21.23	50.74	74.00	-23.26	peak			



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 15:33:41

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

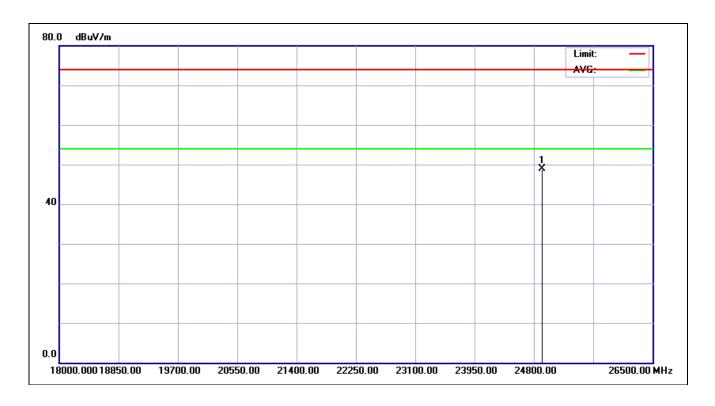
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21221.500	29.51	19.66	49.17	74.00	-24.83	peak			



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 15:34:57

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.(°C)/Hum.(%): 20(°C)/53%

Maddal No. 2. Tit/1004

Model No.: TK1001 Test Engineer: Hugo Chang

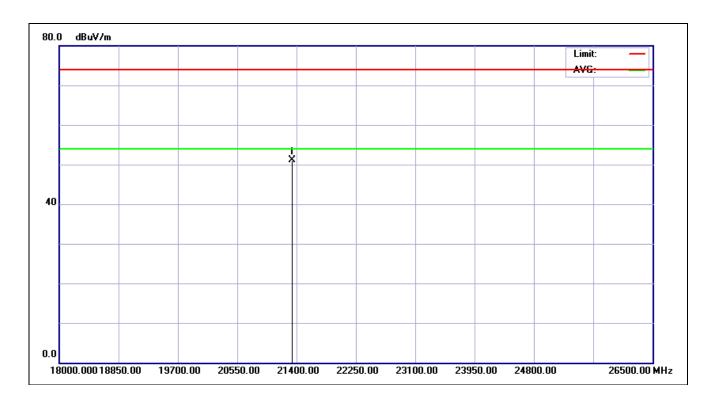
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	24919.000	30.51	18.46	48.97	74.00	-25.03	peak			



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/5 15:35:38

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20($^{\circ}$)/53%

Model No.: TK1001 Test Engineer: Hugo Chang

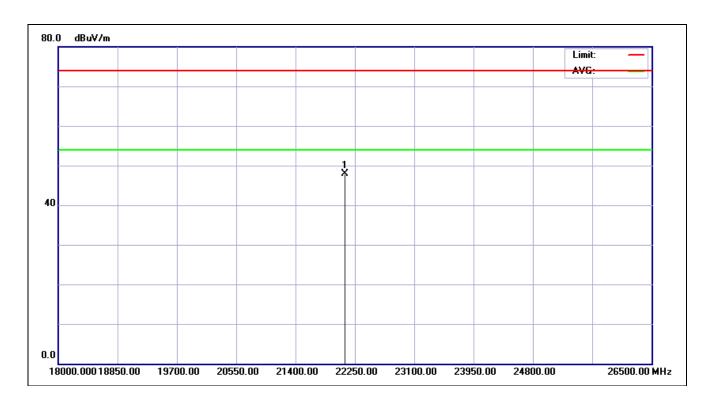
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21332.000	29.49	21.61	51.10	74.00	-22.90	peak			



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: FCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/5 15:36:42

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20($^{\circ}$)/53% Model No.: TK1001 Test Engineer: Hugo Chang

Model No.: TK1001 Test Engineer: Hugo Cl
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	22105.500	29.31	18.63	47.94	74.00	-26.06	peak			

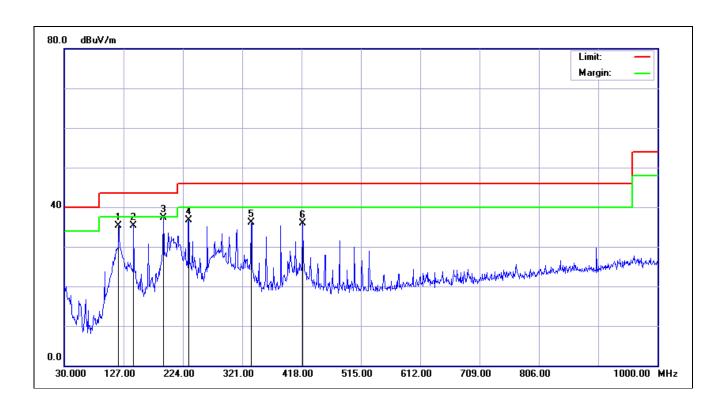
Spurious Emissions, TX Mode, 30M-1G



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Service No.: 114015157-RF Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/12/3 14:45:02

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.($^{\circ}$)/Hum.($^{\circ}$): 20.3($^{\circ}$)/52% Model No.: TK1001 Test Engineer: Hugo Chang

Test Mode: TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	119.2399	-13.36	48.58	35.22	43.50	-8.28	QP	200	76	
2	143.4900	-13.03	48.43	35.40	43.50	-8.10	QP	200	216	
3	191.9900	-15.47	52.77	37.30	43.50	-6.20	QP	200	157	
4	233.6999	-13.23	50.00	36.77	46.00	-9.23	QP	200	106	

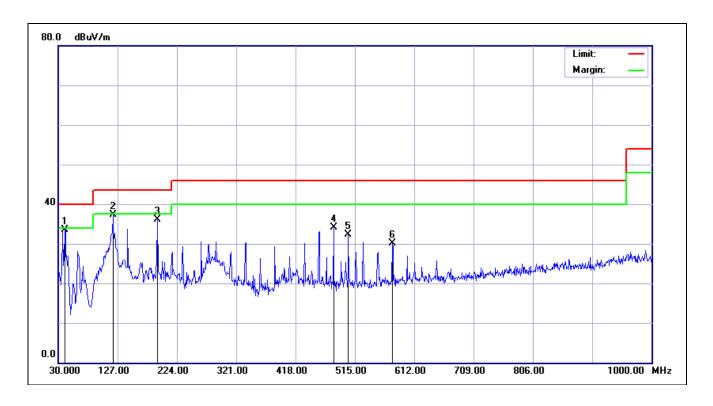
5	336.5199	-9.74	45.86	36.12	46.00	-9.88	QP	200	111	
6	419.9399	-8.35	44.16	35.81	46.00	-10.19	QP	200	205	

TÜVRheinland

TUV Taiwan

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114015157-RF Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/12/3 14:46:10

Applicant: ICHIA Test Rating: DC 5V

Product: Bluetooth keyboard Temp.(°C)/Hum.(%): 20.3(°C)/52%

Model No.: TK1001 Test Engineer: Hugo Chang

Test Mode: TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	40.6699	-11.98	45.53	33.55	40.00	-6.45	QP	100	236	
2	119.2400	-13.36	50.65	37.29	43.50	-6.21	QP	100	336	
3	191.9900	-15.47	51.50	36.03	43.50	-7.47	QP	100	206	
4	480.0800	-7.56	41.66	34.10	46.00	-11.90	QP	100	167	
5	504.3300	-7.27	39.64	32.37	46.00	-13.63	QP	100	182	
6	576.1100	-6.41	36.59	30.18	46.00	-15.82	QP	100	86	

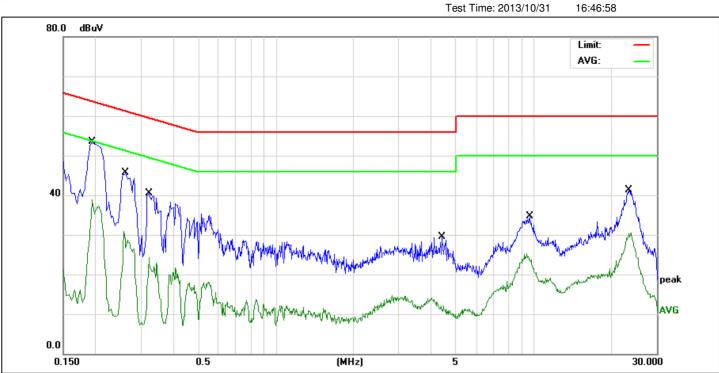
Mains Spurious Emissions



Site: Conduction 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018

Test Time: 2013/10/31



Service No.: 114015157

Test Standard: FCC Part 15 Class B Conduction

Test item: **Conducted Emission** L1 Phase:

Applicant: ICHIA Temp.(°C)/Hum.(%): 26(℃) / 54 %

Product: Bluetooth keyboard **Power Rating:** AC 120V/60Hz Model No.: Test Engineer: **Hugo Chang** XXX

Test Mode: Charge mode

No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1940	9.60	41.37	50.97	63.86	-12.89	QP	Р	
2	0.1940	9.60	24.04	33.64	53.86	-20.22	AVG	Р	
3	0.2620	9.59	32.22	41.81	61.36	-19.55	QP	Р	
4	0.2620	9.59	17.88	27.47	51.36	-23.89	AVG	Р	
5	0.3220	9.59	26.59	36.18	59.65	-23.47	QP	Р	
6	0.3220	9.59	9.87	19.46	49.65	-30.19	AVG	Р	
7	4.4220	9.64	8.44	18.08	56.00	-37.92	QP	Р	
8	4.4220	9.64	0.05	9.69	46.00	-36.31	AVG	Р	
9	9.6820	9.71	17.56	27.27	60.00	-32.73	QP	Р	
10	9.6820	9.71	12.26	21.97	50.00	-28.03	AVG	Р	
11	23.3020	9.82	26.16	35.98	60.00	-24.02	QP	Р	
12	23.3020	9.82	19.06	28.88	50.00	-21.12	AVG	Р	



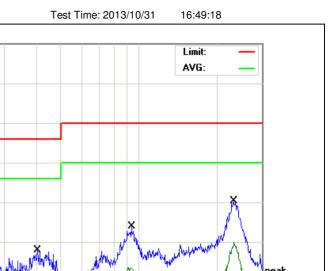
80.0

dBuV

TUV Taiwan

Site: Conduction 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



AVG

30.000

0.150 Service No.: 114015157

0.0

Test Standard: FCC Part 15 Class B Conduction

0.5

Test item: **Conducted Emission** Ν Phase:

Applicant: ICHIA Temp.(°C)/Hum.(%): 26(°C) / 54 %

(MHz)

5

Product: Bluetooth keyboard **Power Rating:** AC 120V/60Hz Model No.: Test Engineer: **Hugo Chang** XXX

Test Mode: Charge mode

No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1940	9.57	41.01	50.58	63.86	-13.28	QP	Р	
2	0.1940	9.57	24.08	33.65	53.86	-20.21	AVG	Р	
3	0.2580	9.56	31.69	41.25	61.49	-20.24	QP	Р	
4	0.2580	9.56	16.14	25.70	51.49	-25.79	AVG	Р	
5	0.3220	9.57	26.15	35.72	59.65	-23.93	QP	Р	
6	0.3220	9.57	9.43	19.00	49.65	-30.65	AVG	Р	
7	4.0500	9.60	9.72	19.32	56.00	-36.68	QP	Р	
8	4.0500	9.60	1.84	11.44	46.00	-34.56	AVG	Р	
9	9.3580	9.67	18.06	27.73	60.00	-32.27	QP	Р	
10	9.3580	9.67	12.99	22.66	50.00	-27.34	AVG	Р	
11	23.3540	9.86	24.42	34.28	60.00	-25.72	QP	Р	
12	23.3540	9.86	17.32	27.18	50.00	-22.82	AVG	Р	