Test Report No.50050510 50050546 001

Appendix D: Radiated Spurious Emission Data

(File: 50050510 50050546AppendixD)

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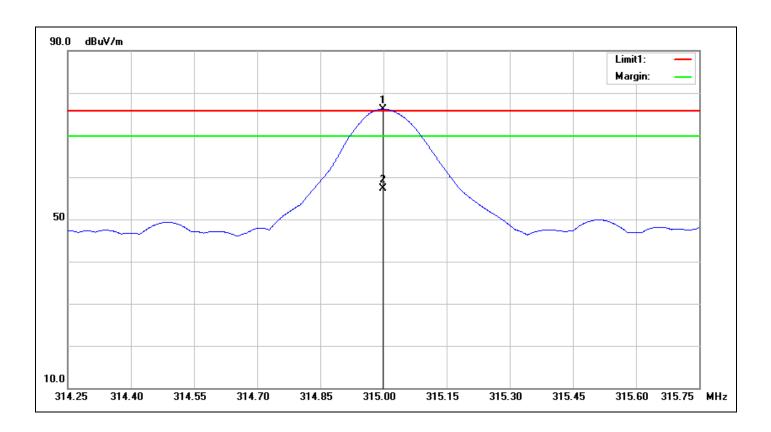
Radiated Emissions, Fundamental

Radiated Emissions, Fundamental



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

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



Service No.: 114052635-NCC Test Distance: 3m

Test Standard: NCC_315M_Fundamental 3m Ant. Polarization: Horizontal

Radiated(AV)

Test item: Radiation Emission Test Time: 2016/7/22 08:46:54

Applicant: Cub Elecparts Test Rating: DC 3V

Product: Uni TPMS Sensor Temp.(°C)/Hum.(%): 24.8(°C)/60%

Model No.: VS-61U009 Test Engineer: George Yang

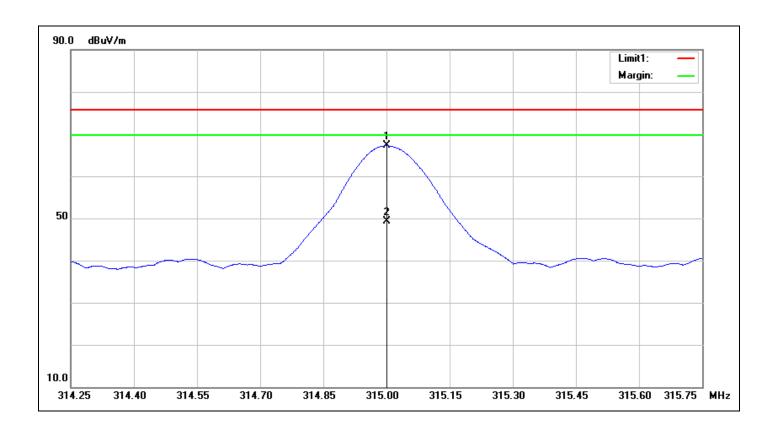
Test Mode: 315MHz-Fundamental

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	315.0000	-10.15	86.30	76.15	87.66	-11.51	peak		0	
2	315.0000	-10.15	67.45	57.30	67.66	-10.36	AVG		0	



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Service No.: 114052635-NCC Test Distance: 3m

Test Standard: NCC_315M_Fundamental 3m Ant. Polarization: Vertical

Radiated (AV)

Test item: Radiation Emission Test Time: 2016/7/22 08:47:58

Applicant: Cub Elecparts Test Rating: DC 3V

Product: Uni TPMS Sensor Temp.($^{\circ}$ C)/Hum.($^{\circ}$): 24.8($^{\circ}$ C)/60%

Model No.: VS-61U009 Test Engineer: George Yang

Test Mode: 315MHz-Fundamental

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	315.0015	-10.15	77.37	67.22	87.66	-20.44	peak			
2	315.0015	-10.15	59.55	49.40	67.66	-18.26	AVG			

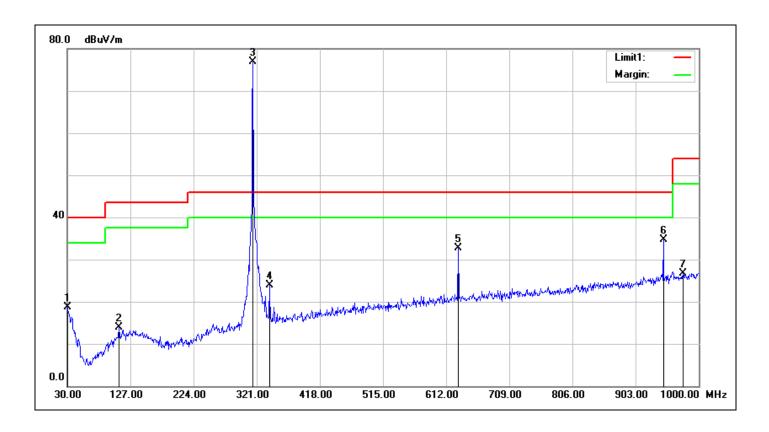
Spurious Emissions, TX Mode, 30M-1G



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Service No.: 114052635-NCC Test Distance: 3m

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

Test item: Radiation Emission Test Time: 2016/7/15 11:27:29

Applicant: Cub Electrats Test Rating: DC 3V

Product: Uni TPMS Sensor Temp.(°C)/Hum.(%): 22.6(°C)/56%

Model No.: VS-61U009 Test Engineer: George Yang

Test Mode: 315MHz-TX

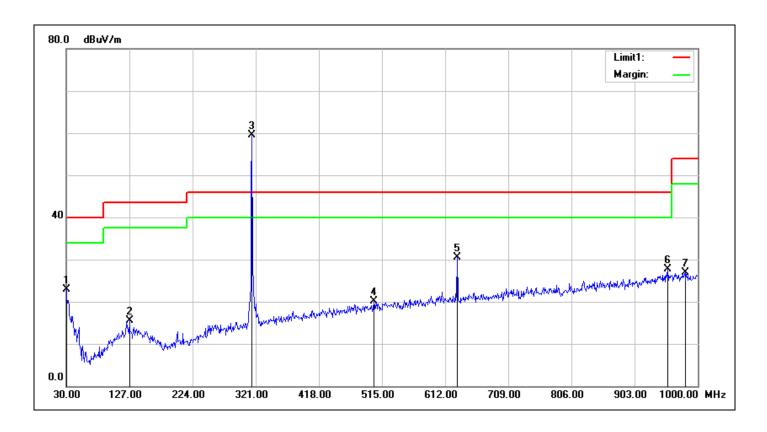
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	30.0000	-5.85	24.52	18.67	40.00	-21.33	QP	100	264	
2	109.5400	-13.63	27.44	13.81	43.50	-29.69	QP	100	221	
3	315.0000	-10.15	87.05	76.90	46.00	30.90	QP	100	174	Fundamental
4	340.3999	-9.59	33.50	23.91	46.00	-22.09	QP	100	181	
5	630.0000	-5.62	38.29	32.67	46.00	-13.33	QP	100	171	
6	945.0000	-0.67	35.43	34.76	46.00	-11.24	QP	100	157	
7	975.7500	-0.25	26.95	26.70	54.00	-27.30	QP	100	133	



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Service No.: 114052635-NCC

Test Standard: NCC Class B 3M Radiation

Test item: **Radiation Emission**

Applicant: Cub Elecparts

Product: Uni TPMS Sensor

Model No.: VS-61U009

Test Mode: 315MHz-TX

Remark: ASK

Test Distance:	3m
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Ant. Polarization: Vertical

Test Time: 2016/7/15 11:28:33

Test Rating: DC 3V

Temp.(°C)/Hum.(%): 22.6(°C)/56%

Test Engineer: George Yang

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	30.0000	-5.85	28.67	22.82	40.00	-17.18	QP	100	301	
2	127.0000	-12.77	28.21	15.44	43.50	-28.06	QP	100	123	
3	315.0000	-10.15	69.65	59.50	46.00	13.50	QP	100	325	Fundamental
4	502.3900	-7.29	27.45	20.16	46.00	-25.84	QP	100	285	
5	630.0000	-5.62	36.06	30.44	46.00	-15.56	QP	100	184	
6	954.4100	-0.47	28.17	27.70	46.00	-18.30	QP	100	166	
7	980.6000	-0.20	27.01	26.81	54.00	-27.19	QP	100	216	

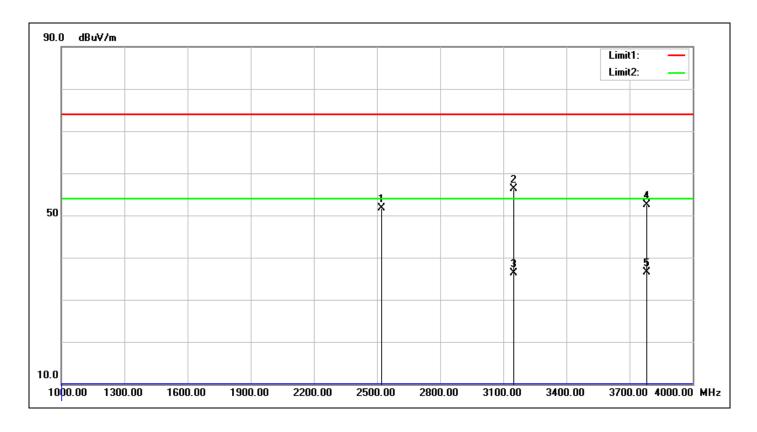
Spurious Emissions, TX Mode, 1-4G



TUV Taiwan

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



Service No.: 114052635-NCC Test Distance: 3m

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

Test item: Radiation Emission Test Time: 2016/7/15 11:41:00

Applicant: Cub Elecparts Test Rating: DC 3V

Product: Uni TPMS Sensor Temp.(°C)/Hum.(%): 22.6(°C)/56%

Model No.: VS-61U009 Test Engineer: George Yang

Test Mode: 315MHz-TX

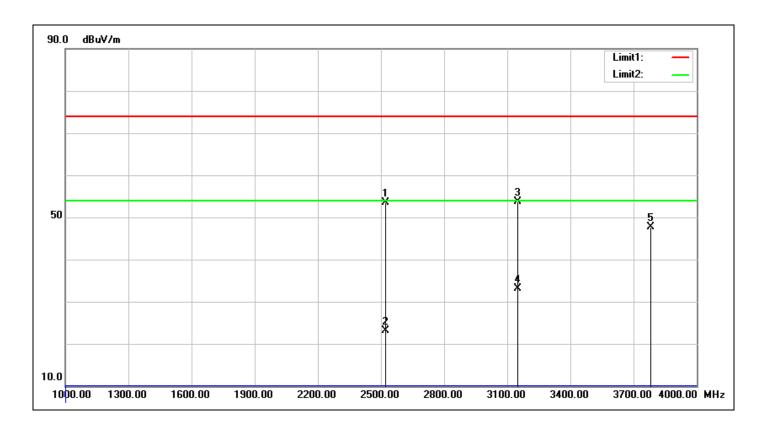
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2520.000	-7.90	59.70	51.80	74.00	-22.20	peak	100	243	
2	3150.000	-6.98	63.24	56.26	74.00	-17.74	peak	100	104	
3	3150.000	-6.98	43.38	36.40	54.00	-17.60	AVG	100	104	
4	3780.000	-6.06	58.52	52.46	74.00	-21.54	peak	100	102	
5	3780.000	-6.06	42.56	36.50	54.00	-17.50	AVG	100	102	



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Service No.: 114052635-NCC Test Distance: 3m

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

Test item: Radiation Emission Test Time: 2016/7/15 11:42:04

Applicant: Cub Electrats Test Rating: DC 3V

Product: Uni TPMS Sensor Temp.($^{\circ}$ C)/Hum.($^{\circ}$): 22.6($^{\circ}$ C)/56%

Model No.: VS-61U009 Test Engineer: George Yang

Test Mode: 315MHz-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	2520.000	-7.90	61.40	53.50	74.00	-20.50	peak	100	216	
2	2520.000	-7.90	31.00	23.10	54.00	-30.90	AVG	100	216	
3	3150.000	-6.98	60.65	53.67	74.00	-20.33	peak	100	150	
4	3150.000	-6.98	40.08	33.10	54.00	-20.90	AVG	100	150	
5	3781.000	-6.06	53.86	47.80	74.00	-26.20	peak	100	54	