



BTL Inc.
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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com



Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: **Horizontal**

Power: DC 5V

Distance: 3m

Mode: TX_G_2437

Temperature: 25 (C)

Humidity: 60 %

Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#14

Date: 2017-3-9

Time: 2:49:47



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		75.590	38.90	-16.52	22.38	40.00	-17.62	peak	
2		191.020	35.31	-13.99	21.32	43.50	-22.18	peak	
3	*	264.740	45.26	-13.84	31.42	46.00	-14.58	peak	
4		357.860	36.17	-10.68	25.49	46.00	-20.51	peak	
5		546.040	31.41	-4.96	26.45	46.00	-19.55	peak	
6		804.060	28.14	0.14	28.28	46.00	-17.72	peak	

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

(Reference Only)

File :FCCP_BELOW1G_1Data :#14

Page: 1

Test engineer :

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Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: **Vertical**

Power: DC 5V

Distance: 3m

Mode: TX_G_2462

Temperature: 25 (C)

Humidity: 60 %

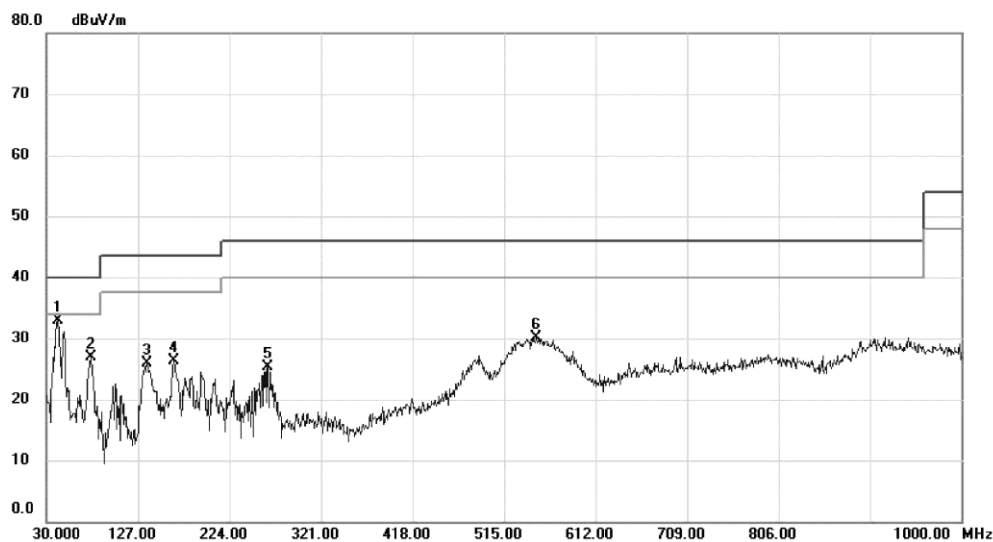
Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#6

Date: 2017-3-9

Time: 2:39:48



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	42.610	46.22	-13.36	32.86	40.00	-7.14	peak	
2		76.560	43.36	-16.41	26.95	40.00	-13.05	peak	
3		136.700	39.28	-13.28	26.00	43.50	-17.50	peak	
4		164.830	38.55	-12.20	26.35	43.50	-17.15	peak	
5		264.740	39.19	-13.84	25.35	46.00	-20.65	peak	
6		549.920	34.58	-4.55	30.03	46.00	-15.97	peak	

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

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2462

Note:

Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#15

Date: 2017-3-9

Time: 2:50:55



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		75.590	40.62	-16.52	24.10	40.00	-15.90	peak	
2		191.020	34.20	-13.99	20.21	43.50	-23.29	peak	
3	*	263.770	44.94	-13.91	31.03	46.00	-14.97	peak	
4		311.300	36.87	-10.40	26.47	46.00	-19.53	peak	
5		551.860	31.15	-4.63	26.52	46.00	-19.48	peak	
6		831.220	29.96	-0.69	29.27	46.00	-16.73	peak	

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

(Reference Only)

File :FCCP_BELOW1G_1Data :#15

Page: 1

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Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: **Vertical**

Power: DC 5V

Distance: 3m

Mode: TX_N20_2412

Temperature: 25 (C)

Humidity: 60 %

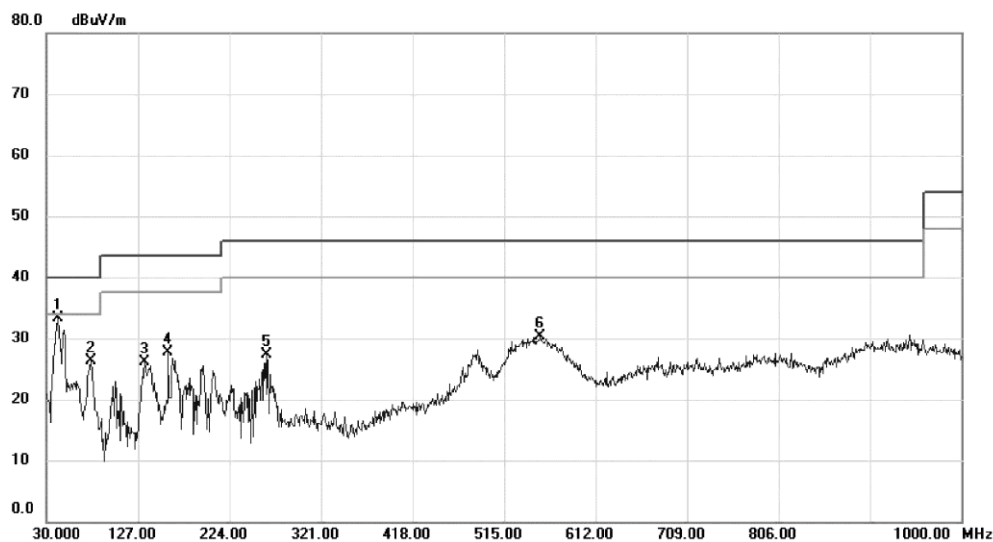
Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#7

Date: 2017-3-9

Time: 2:40:52



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	42.610	46.62	-13.36	33.26	40.00	-6.74	peak	
2		77.530	42.67	-16.31	26.36	40.00	-13.64	peak	
3		133.790	38.94	-12.88	26.06	43.50	-17.44	peak	
4		159.010	40.00	-12.22	27.78	43.50	-15.72	peak	
5		263.770	41.21	-13.91	27.30	46.00	-18.70	peak	
6		553.800	35.11	-4.73	30.38	46.00	-15.62	peak	

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

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#16

Date: 2017-3-9

Time: 2:52:12



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		75.590	38.61	-16.52	22.09	40.00	-17.91	peak	
2		191.020	34.63	-13.99	20.64	43.50	-22.86	peak	
3	*	261.830	44.85	-14.07	30.78	46.00	-15.22	peak	
4		313.240	36.47	-10.44	26.03	46.00	-19.97	peak	
5		487.840	34.85	-9.30	25.55	46.00	-20.45	peak	
6		819.580	28.53	-0.32	28.21	46.00	-17.79	peak	

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

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

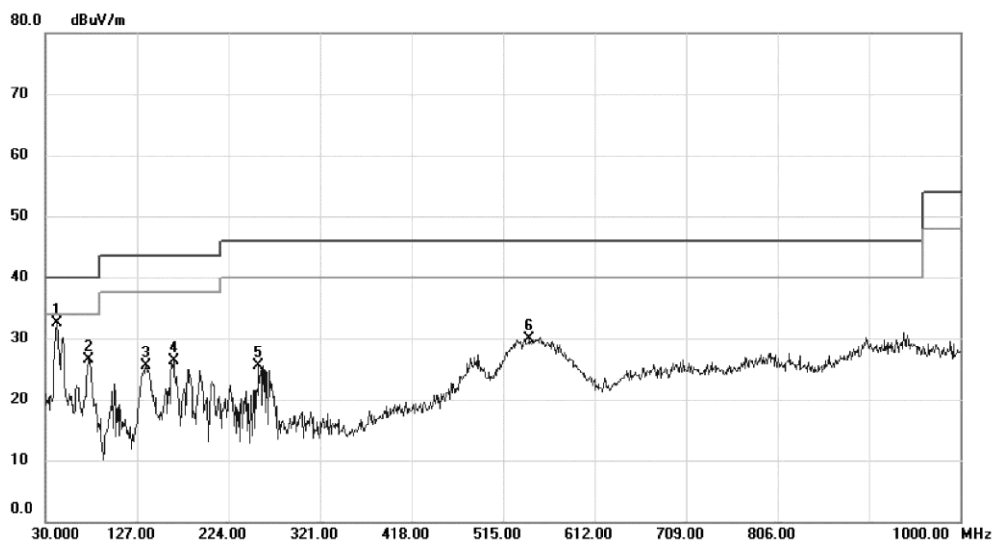
Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#8

Date: 2017-3-9

Time: 2:42:28



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	41.640	46.06	-13.56	32.50	40.00	-7.50	peak	
2		75.590	43.09	-16.52	26.57	40.00	-13.43	peak	
3		136.700	38.69	-13.28	25.41	43.50	-18.09	peak	
4		165.800	38.48	-12.21	26.27	43.50	-17.23	peak	
5		256.010	39.80	-14.20	25.60	46.00	-20.40	peak	
6		543.130	35.20	-5.25	29.95	46.00	-16.05	peak	

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

(Reference Only)

File :FCCP_BELOW1G_1Data :#8

Page: 1

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#17

Date: 2017-3-9

Time: 2:53:03



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		40.670	33.01	-13.77	19.24	40.00	-20.76	peak	
2		75.590	38.39	-16.52	21.87	40.00	-18.13	peak	
3		183.260	34.39	-13.20	21.19	43.50	-22.31	peak	
4		221.090	36.91	-14.16	22.75	46.00	-23.25	peak	
5 *		264.740	44.27	-13.84	30.43	46.00	-15.57	peak	
6		549.920	31.62	-4.55	27.07	46.00	-18.93	peak	

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

⟨Reference Only

File :FCCP_BELOW1G_1Data :#17

Page: 1

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

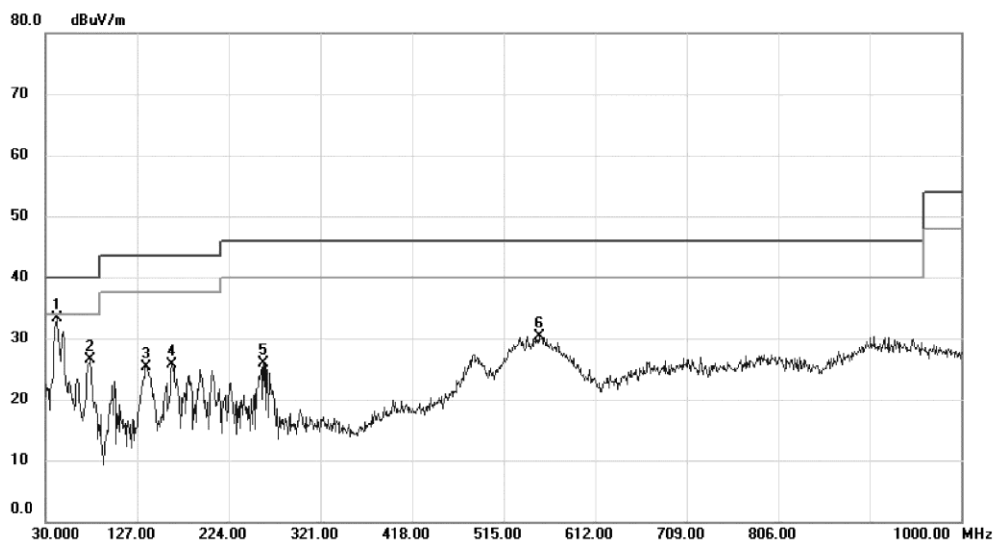
Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#9

Date: 2017-3-9

Time: 2:43:31



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	41.640	46.88	-13.56	33.32	40.00	-6.68	peak	
2		77.530	42.76	-16.31	26.45	40.00	-13.55	peak	
3		136.700	38.63	-13.28	25.35	43.50	-18.15	peak	
4		163.860	37.85	-12.18	25.67	43.50	-17.83	peak	
5		260.860	39.95	-14.14	25.81	46.00	-20.19	peak	
6		552.830	35.08	-4.68	30.40	46.00	-15.60	peak	

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

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

Radiated Emission Measurement

File :FCCP_BELOW1G_1

Data :#18

Date: 2017-3-9

Time: 2:54:17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		75.590	38.54	-16.52	22.02	40.00	-17.98	peak	
2		221.090	37.20	-14.16	23.04	46.00	-22.96	peak	
3 *		266.680	44.56	-13.68	30.88	46.00	-15.12	peak	
4		310.330	37.26	-10.38	26.88	46.00	-19.12	peak	
5		543.130	31.81	-5.25	26.56	46.00	-19.44	peak	
6		801.150	27.07	0.23	27.30	46.00	-18.70	peak	

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

(Reference Only)

File :FCCP_BELOW1G_1Data :#18

Page: 1

Test engineer :

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Appendix A.15: Spurious Emissions above 1 GHz



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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03	Polarization: Vertical	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_B_2412	
Note:		

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#1

Date: 2016-11-25

Time: 9:17:52



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.890	38.95	4.85	43.80	74.00	-30.20	peak	
2	*	4823.960	33.08	4.85	37.93	54.00	-16.07	AVG	

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

⟨Reference Only


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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2412

Note:

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#2

Date: 2016-11-25

Time: 9:19:56



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.958	34.15	4.85	39.00	54.00	-15.00	AVG	
2		4824.083	39.13	4.85	43.98	74.00	-30.02	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#2

Page: 1

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2437

Note:

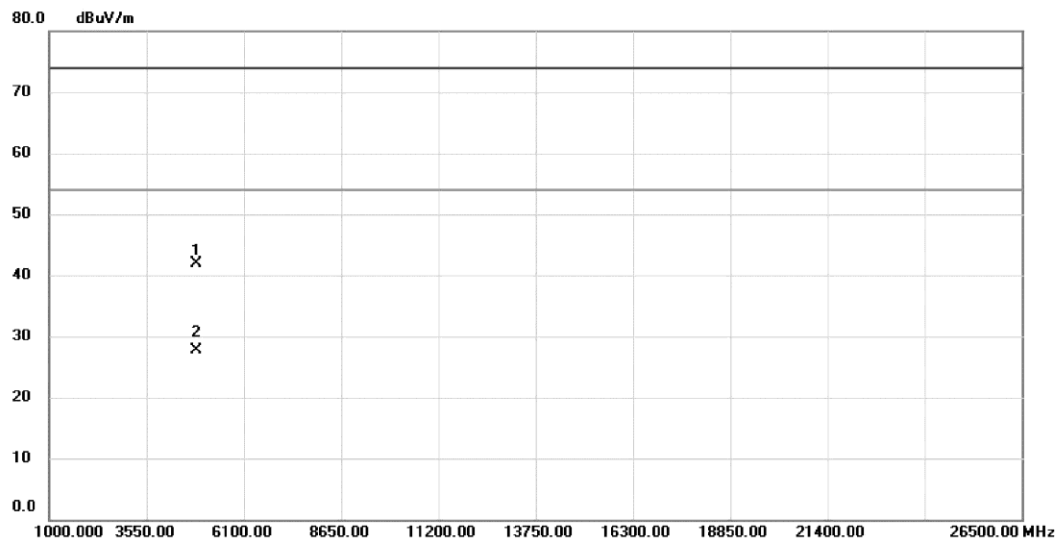
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#3

Date: 2016-11-25

Time: 9:21:58



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.318	36.92	5.06	41.98	74.00	-32.02	peak	
2	*	4874.915	22.58	5.06	27.64	54.00	-26.36	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#3

Page: 1

Test engineer :

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_B_2437	
Note:		

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#4

Date: 2016-11-25

Time: 9:23:18



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.950	46.36	5.06	51.42	54.00	-2.58	AVG	
2		4874.015	48.25	5.06	53.31	74.00	-20.69	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#4

Page: 1

Test engineer :

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 Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#5

Date: 2016-11-25

Time: 9:25:20



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.993	38.23	5.27	43.50	54.00	-10.50	AVG	
2		4924.115	41.54	5.27	46.81	74.00	-27.19	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#5

Page: 1

Test engineer :

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 Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

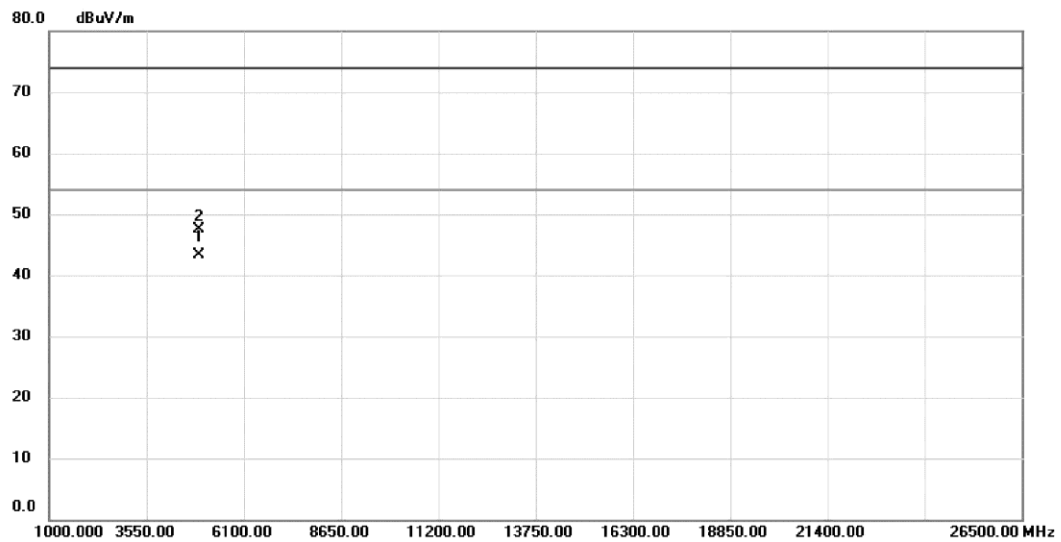
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#6

Date: 2016-11-25

Time: 9:27:59



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.953	37.98	5.27	43.25	54.00	-10.75	AVG	
2		4923.993	42.24	5.27	47.51	74.00	-26.49	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#6

Page: 1

Test engineer :

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 Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2412

Note:

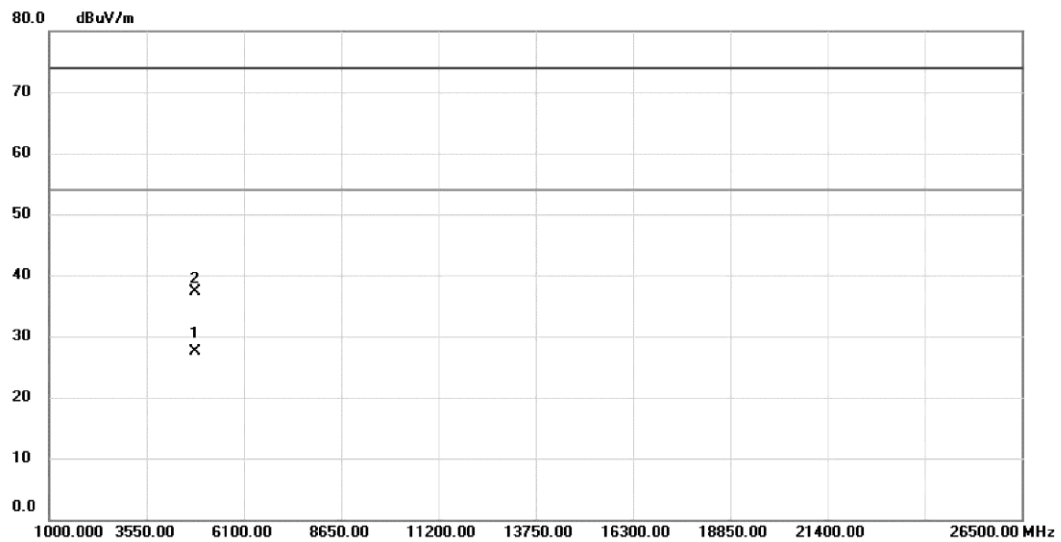
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#7

Date: 2016-11-25

Time: 9:29:47



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.015	22.73	4.85	27.58	54.00	-26.42	AVG	
2		4825.047	32.49	4.86	37.35	74.00	-36.65	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#7

Page: 1

Test engineer :

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_G_2412	
Note:		

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#8

Date: 2016-11-25

Time: 9:31:36



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.958	29.03	4.85	33.88	54.00	-20.12	AVG	
2		4824.153	38.33	4.85	43.18	74.00	-30.82	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#8

Page: 1

Test engineer :

Vincent



Neutron Engineering Inc.
 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2437

Note:

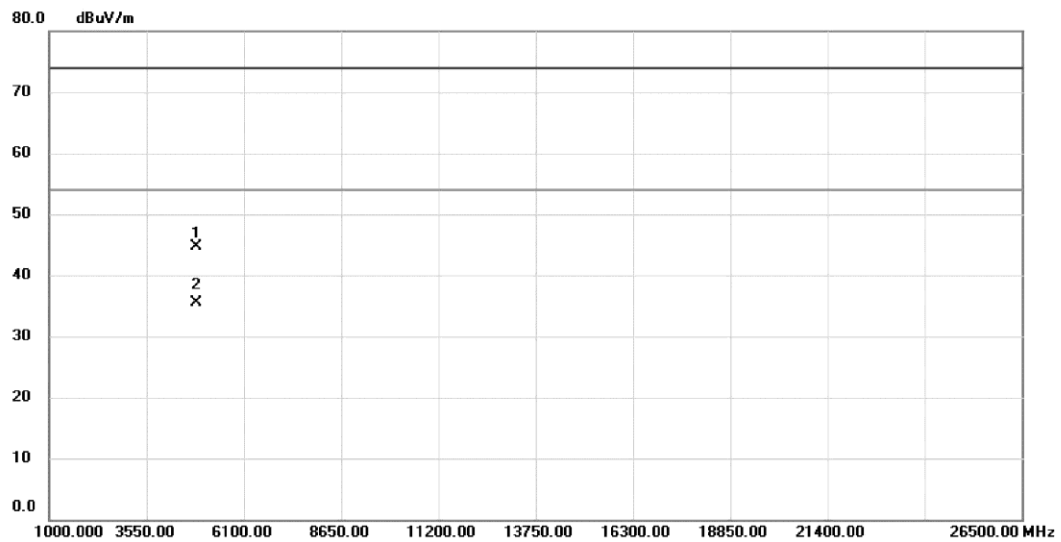
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#9

Date: 2016-11-25

Time: 9:34:09



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.705	39.68	5.06	44.74	74.00	-29.26	peak	
2 *		4874.185	30.46	5.06	35.52	54.00	-18.48	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#9

Page: 1

Test engineer :

Vincent


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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2437

Note:

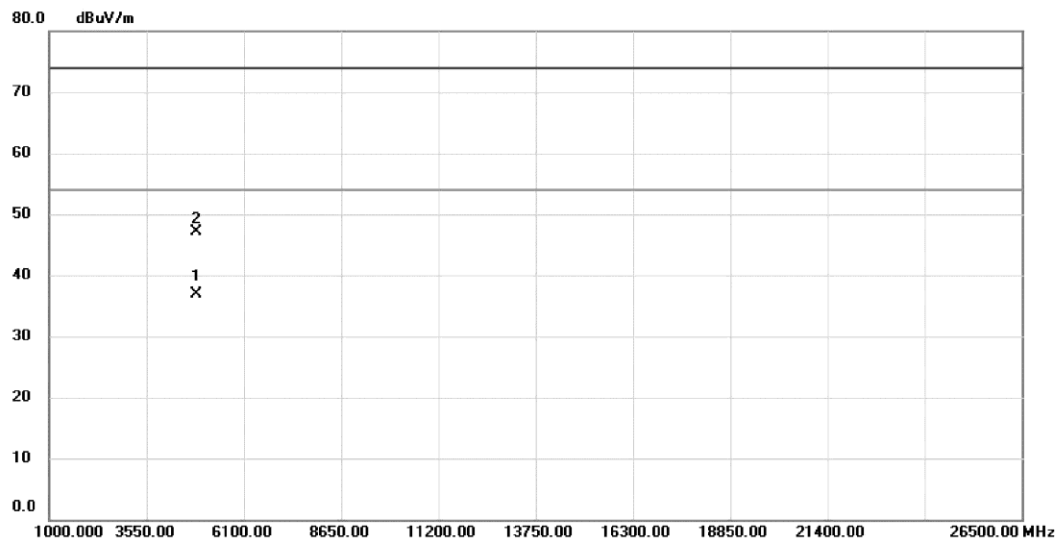
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#10

Date: 2016-11-25

Time: 9:36:51



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.920	31.75	5.06	36.81	54.00	-17.19	AVG	
2		4874.185	42.05	5.06	47.11	74.00	-26.89	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#10

Page: 1

Test engineer :

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2462

Note:

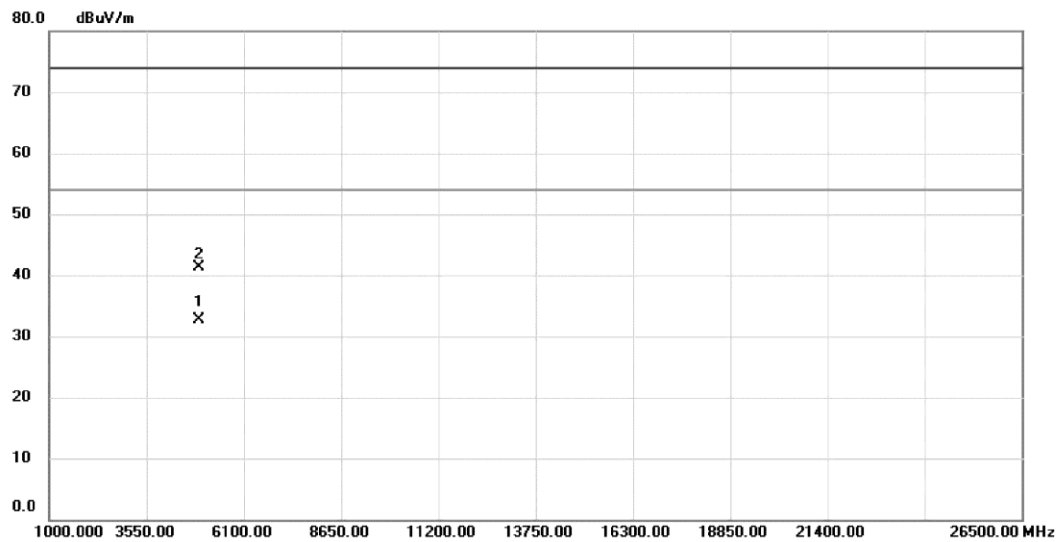
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#11

Date: 2016-11-25

Time: 9:39:49



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.600	27.49	5.27	32.76	54.00	-21.24	AVG	
2		4924.185	36.03	5.27	41.30	74.00	-32.70	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#11

Page: 1

Test engineer :

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2462

Note:

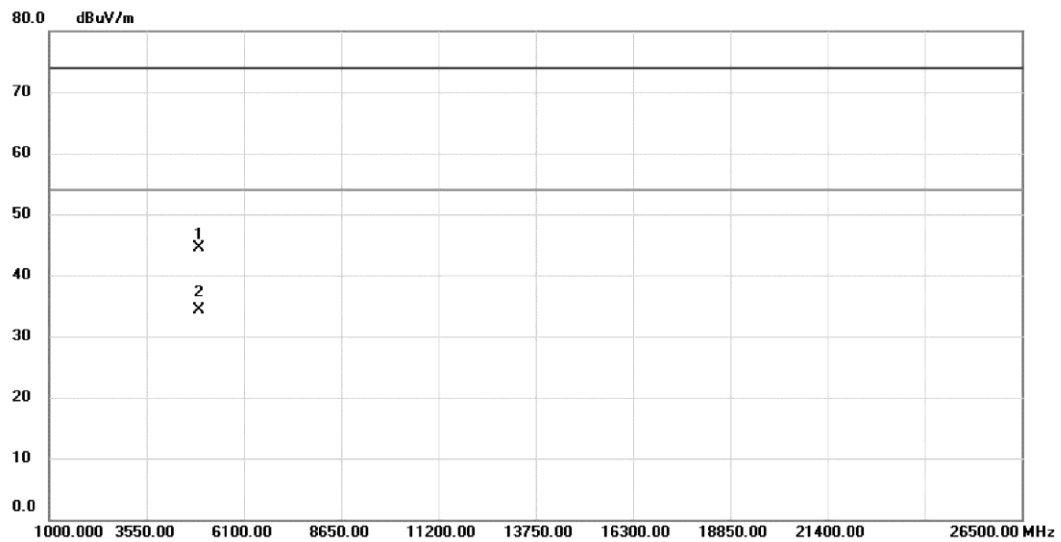
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#12

Date: 2016-11-25

Time: 9:41:06



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.882	39.16	5.27	44.43	74.00	-29.57	peak	
2 *		4923.948	29.00	5.27	34.27	54.00	-19.73	AVG	

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

⟨Reference Only



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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#13

Date: 2016-11-25

Time: 9:43:37



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.542	35.85	4.85	40.70	74.00	-33.30	peak	
2	*	4824.255	28.13	4.85	32.98	54.00	-21.02	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#13

Page: 1

Test engineer :

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#14

Date: 2016-11-25

Time: 9:45:13



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.943	39.24	4.85	44.09	74.00	-29.91	peak	
2	*	4823.975	30.07	4.85	34.92	54.00	-19.08	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#14

Page: 1

Test engineer :

Vincent



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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#15

Date: 2016-11-25

Time: 9:48:42



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.722	29.95	5.06	35.01	54.00	-18.99	AVG	
2		4874.363	37.97	5.06	43.03	74.00	-30.97	peak	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#15

Page: 1

Test engineer :

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Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_N20_2437	
Note:		

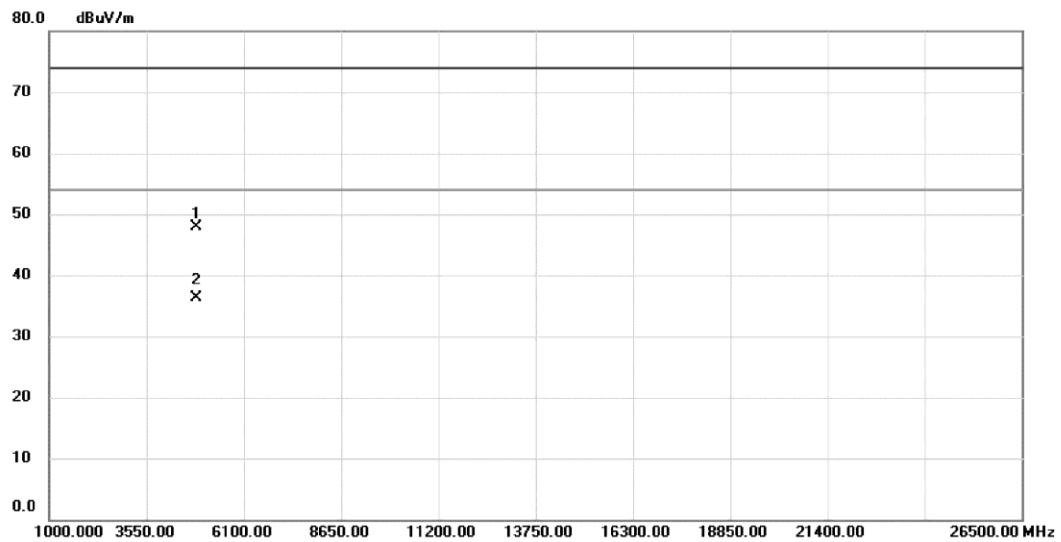
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#16

Date: 2016-11-25

Time: 9:51:57



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.865	42.94	5.06	48.00	74.00	-26.00	peak	
2 *		4873.955	31.15	5.06	36.21	54.00	-17.79	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#16

Page: 1

Test engineer :

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

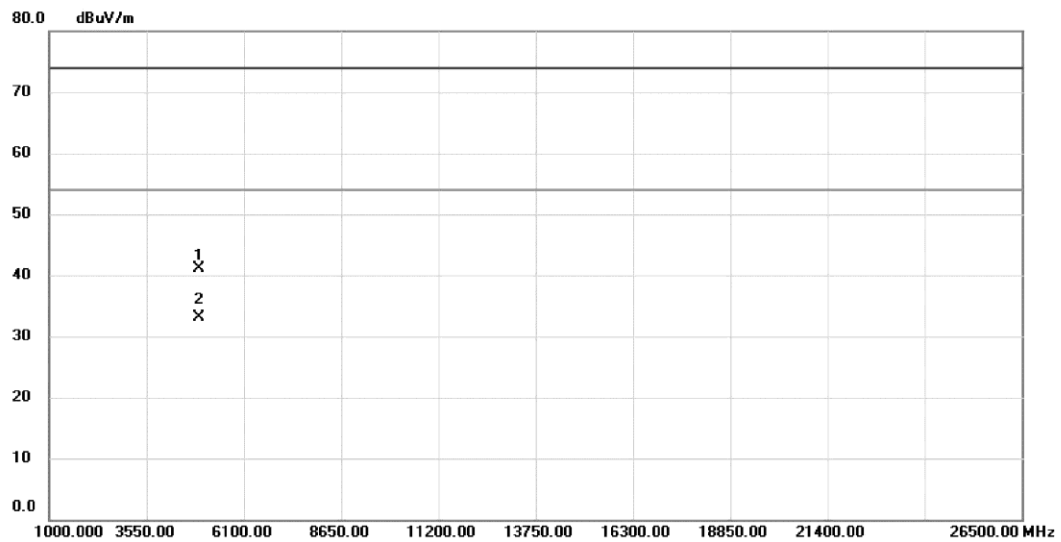
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#17

Date: 2016-11-25

Time: 9:54:07



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.515	35.87	5.27	41.14	74.00	-32.86	peak	
2	*	4923.618	27.76	5.27	33.03	54.00	-20.97	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#17

Page: 1

Test engineer :

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

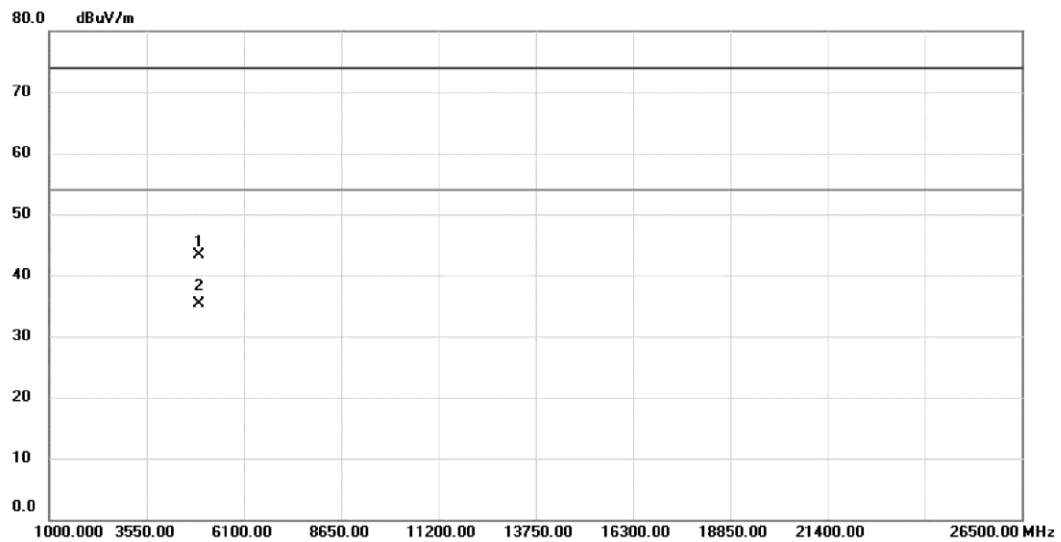
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#18

Date: 2016-11-25

Time: 9:56:13



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.882	38.08	5.27	43.35	74.00	-30.65	peak	
2 *		4924.010	30.05	5.27	35.32	54.00	-18.68	AVG	

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

⟨Reference Only

File :FCCP_ABOVE1G\Data :#18

Page: 1

Test engineer :

Vincent

Appendix B.5: Radiated Emission in Restrictd band

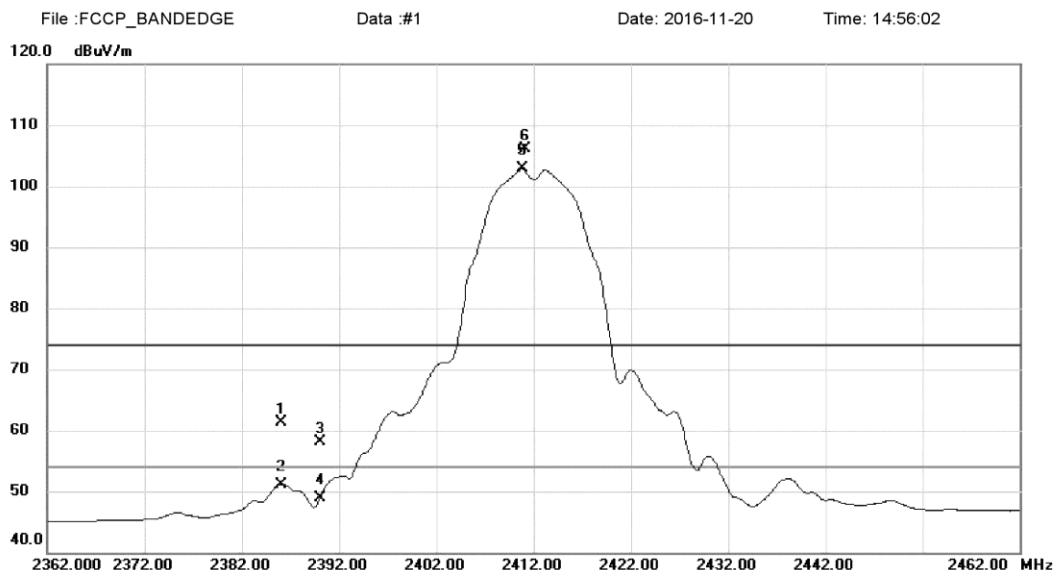


Neutron Engineering Inc.
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Site: DG-CB03	Polarization: Vertical	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_B_2412	
Note:		

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2386.000	28.37	33.00	61.37	74.00	-12.63	peak	
2		2386.000	18.10	33.00	51.10	54.00	-2.90	AVG	
3		2390.000	25.01	33.01	58.02	74.00	-15.98	peak	
4		2390.000	15.89	33.01	48.90	54.00	-5.10	AVG	
5	*	2410.850	69.76	33.09	102.85	54.00	48.85	AVG	No Limit
6	X	2411.200	72.95	33.10	106.05	74.00	32.05	peak	No Limit

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

⟨Reference Only


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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2412

Note:

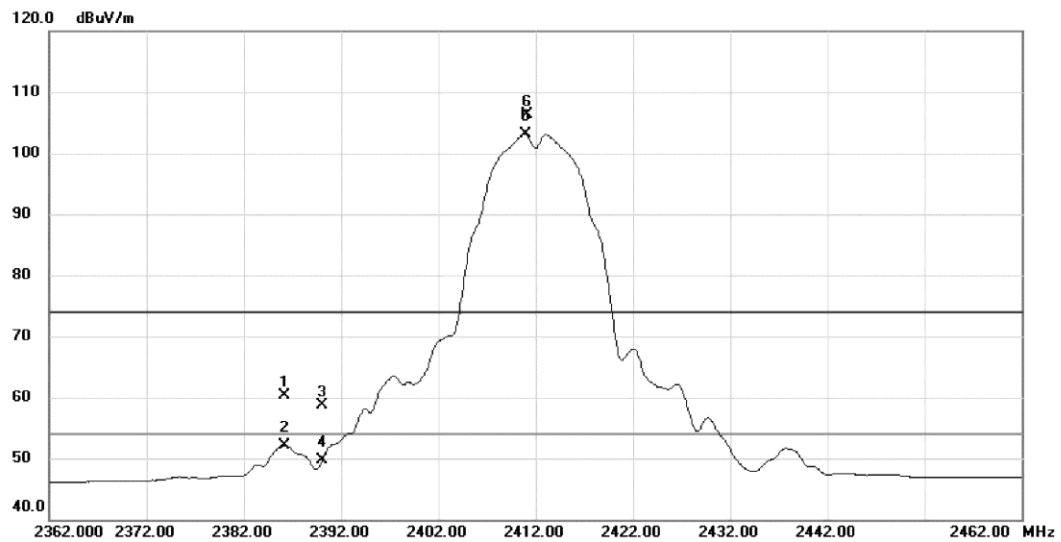
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#2

Date: 2016-11-20

Time: 14:01:31



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2386.250	27.33	33.00	60.33	74.00	-13.67	peak	
2		2386.250	19.06	33.00	52.06	54.00	-1.94	AVG	
3		2390.000	25.65	33.01	58.66	74.00	-15.34	peak	
4		2390.000	16.60	33.01	49.61	54.00	-4.39	AVG	
5	*	2410.950	70.03	33.10	103.13	54.00	49.13	AVG	No Limit
6	X	2411.150	73.12	33.10	106.22	74.00	32.22	peak	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#2

Page: 1

Test engineer :

Vincent



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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2437

Note:

Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#3

Date: 2016-11-20

Time: 14:53:05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.900	72.78	33.20	105.98	54.00	51.98	AVG	No Limit
2	X	2436.150	75.78	33.21	108.99	74.00	34.99	peak	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#3

Page: 1

Test engineer :

Vincent



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Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_B_2437	
Note:		

Radiated Emission Measurement

File :FCCP_BANDEDGE

Data :#4

Date: 2016-11-20

Time: 14:03:55



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.800	72.75	33.20	105.95	54.00	51.95	AVG	No Limit
2	X	2436.200	75.81	33.21	109.02	74.00	35.02	peak	No Limit

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

⟨Reference Only


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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

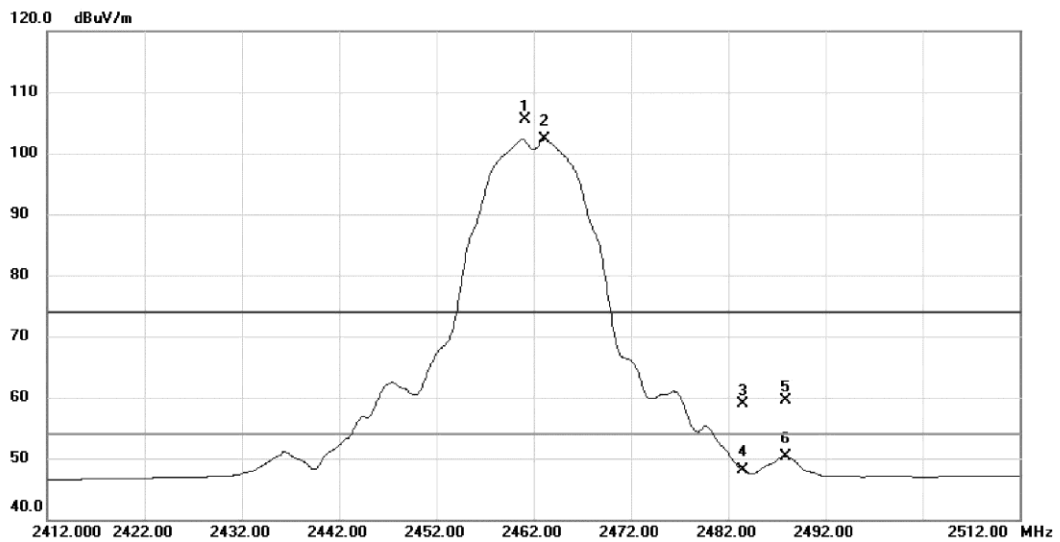
Radiated Emission Measurement

File :FCCP_BANDEDGE

Data :#5

Date: 2016-11-20

Time: 14:51:29



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.150	72.24	33.31	105.55	74.00	31.55	peak	No Limit
2	*	2463.200	69.08	33.31	102.39	54.00	48.39	AVG	No Limit
3		2483.500	25.57	33.40	58.97	74.00	-15.03	peak	
4		2483.500	14.74	33.40	48.14	54.00	-5.86	AVG	
5		2487.900	26.00	33.42	59.42	74.00	-14.58	peak	
6		2487.900	16.88	33.42	50.30	54.00	-3.70	AVG	

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

⟨Reference Only



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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

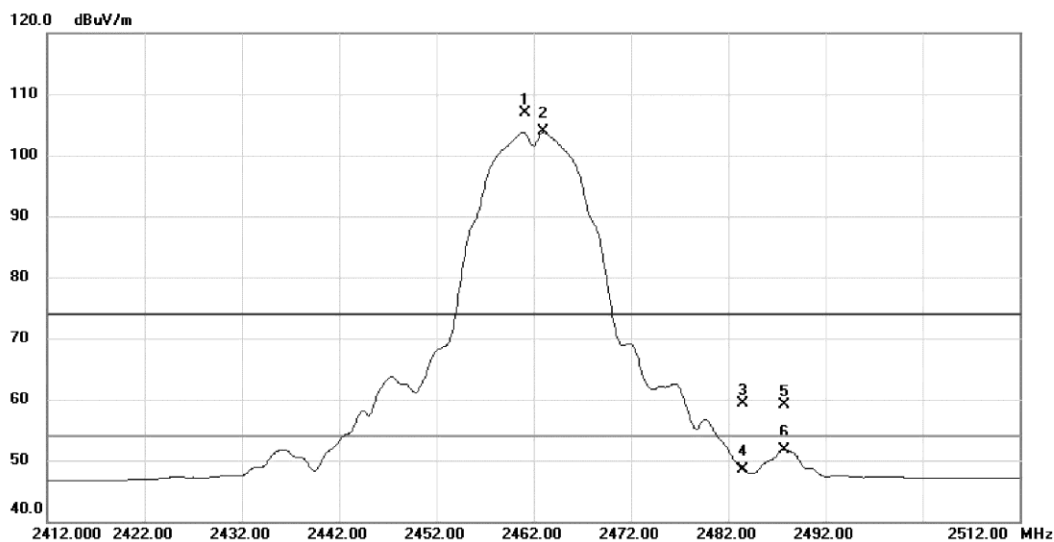
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#6

Date: 2016-11-20

Time: 14:05:59



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.150	73.57	33.31	106.88	74.00	32.88	peak	No Limit
2	*	2463.050	70.52	33.31	103.83	54.00	49.83	AVG	No Limit
3		2483.500	25.91	33.40	59.31	74.00	-14.69	peak	
4		2483.500	15.13	33.40	48.53	54.00	-5.47	AVG	
5		2487.750	25.67	33.42	59.09	74.00	-14.91	peak	
6		2487.750	18.32	33.42	51.74	54.00	-2.26	AVG	

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#6

Page: 1

Test engineer :

Vincent



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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2412

Note:

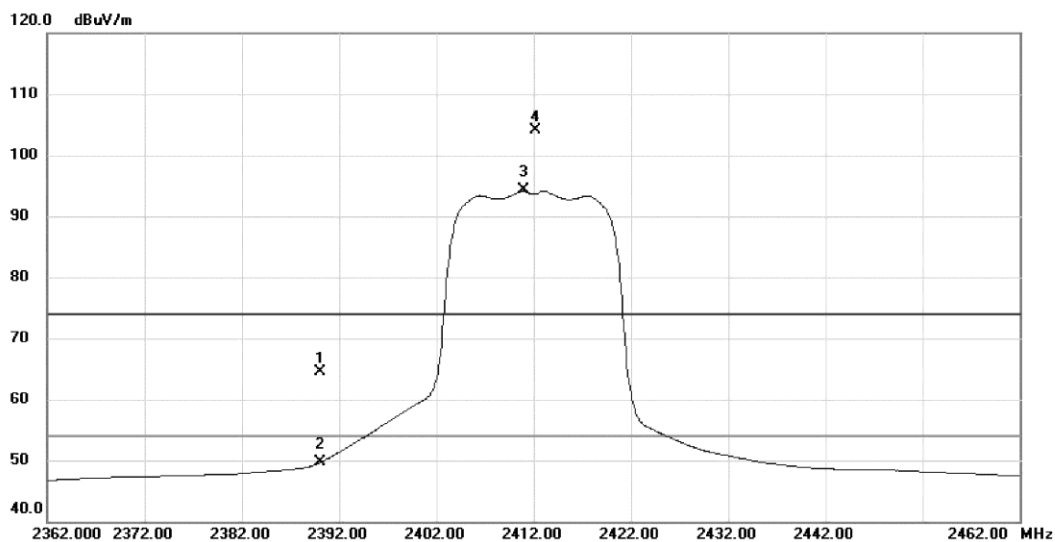
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#7

Date: 2016-11-20

Time: 14:49:53



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.46	33.01	64.47	74.00	-9.53	peak	
2		2390.000	16.64	33.01	49.65	54.00	-4.35	AVG	
3	*	2411.000	61.11	33.10	94.21	54.00	40.21	AVG	No Limit
4	X	2412.200	71.04	33.10	104.14	74.00	30.14	peak	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#7

Page: 1

Test engineer :

Vincent


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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2412

Note:

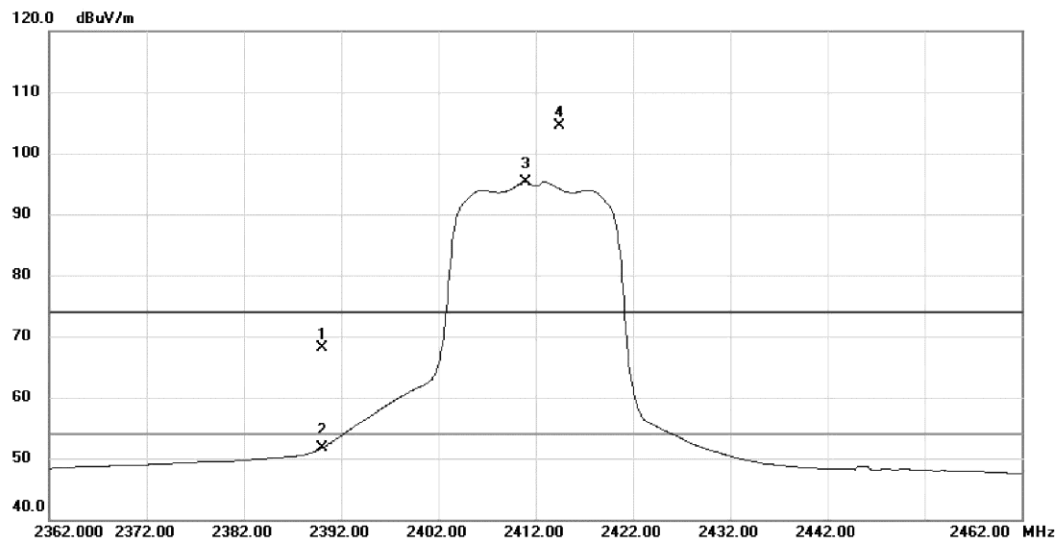
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#8

Date: 2016-11-20

Time: 14:10:50



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	35.03	33.01	68.04	74.00	-5.96	peak	
2		2390.000	18.71	33.01	51.72	54.00	-2.28	AVG	
3 *		2411.000	62.22	33.10	95.32	54.00	41.32	AVG	No Limit
4 X		2414.400	71.48	33.12	104.60	74.00	30.60	peak	No Limit

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

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Site: DG-CB03	Polarization: Vertical	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_G_2437	
Note:		

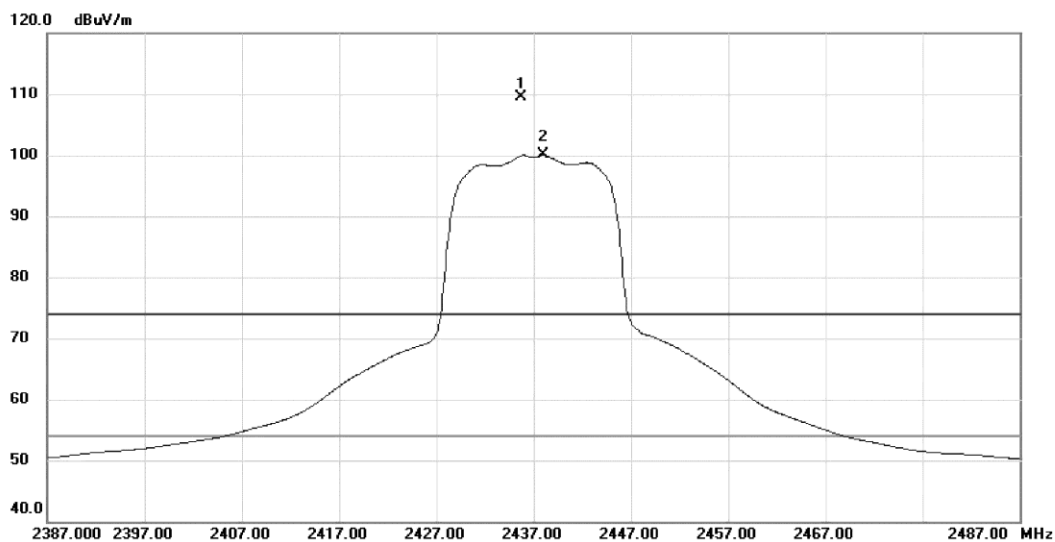
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#9

Date: 2016-11-20

Time: 14:47:53



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2435.700	76.21	33.20	109.41	74.00	35.41	peak	No Limit
2	*	2438.050	66.87	33.21	100.08	54.00	46.08	AVG	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#9

Page: 1

Test engineer :

Vincent

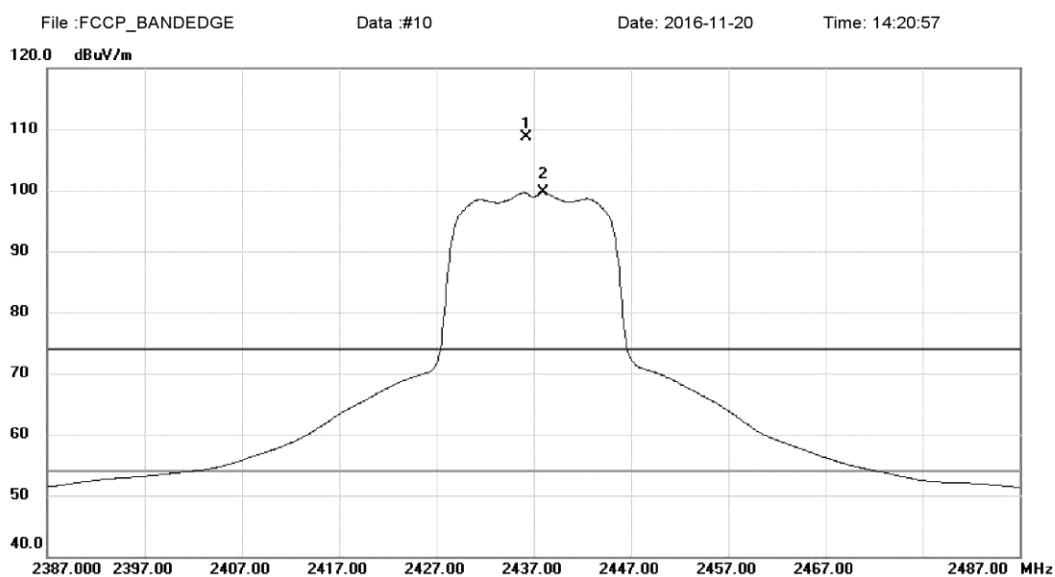


Neutron Engineering Inc.
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Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_G_2437	
Note:		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2436.250	75.54	33.21	108.75	74.00	34.75	peak	No Limit
2	*	2437.950	66.42	33.21	99.63	54.00	45.63	AVG	No Limit

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

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2462

Note:

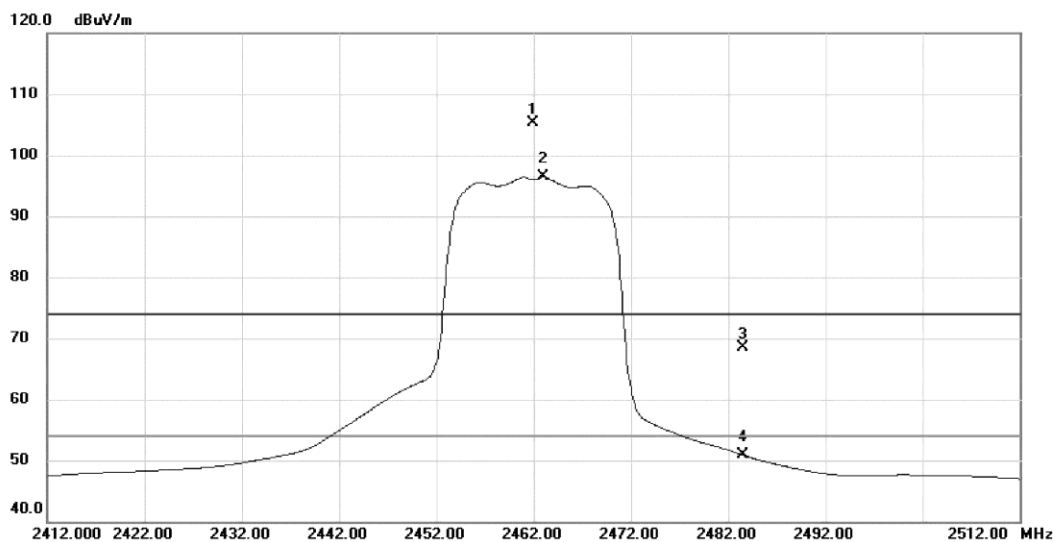
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#11

Date: 2016-11-20

Time: 14:43:52



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.950	71.92	33.31	105.23	74.00	31.23	peak	No Limit
2	*	2463.050	63.20	33.31	96.51	54.00	42.51	AVG	No Limit
3		2483.500	35.09	33.40	68.49	74.00	-5.51	peak	
4		2483.500	17.49	33.40	50.89	54.00	-3.11	AVG	

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

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File :FCCP_BANDEGE\Data :#11

Page: 1

Test engineer :

Vincent



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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_G_2462	
Note:		

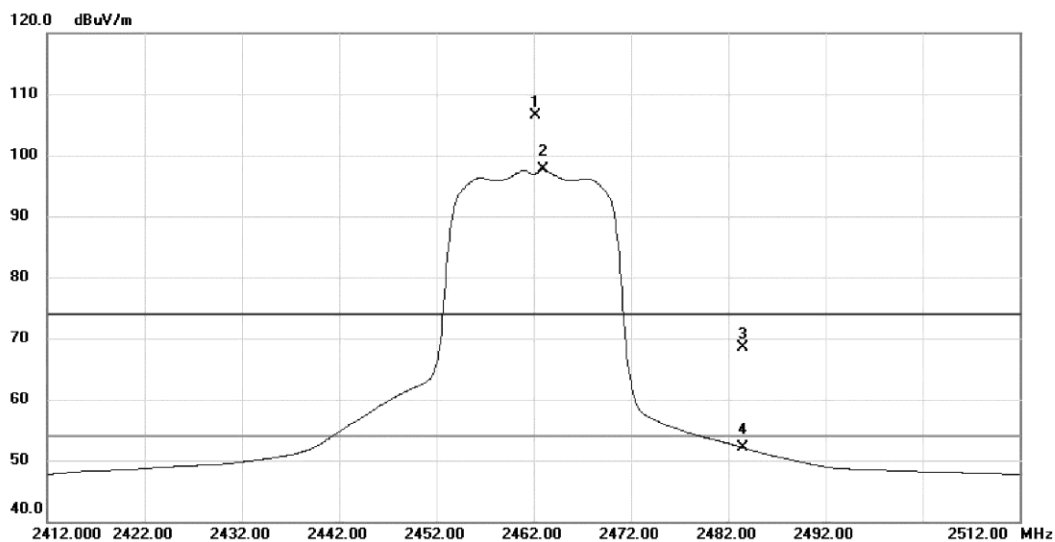
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#12

Date: 2016-11-20

Time: 14:24:07



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.150	73.21	33.31	106.52	74.00	32.52	peak	No Limit
2	*	2462.950	64.31	33.31	97.62	54.00	43.62	AVG	No Limit
3		2483.500	35.01	33.40	68.41	74.00	-5.59	peak	
4		2483.500	18.73	33.40	52.13	54.00	-1.87	AVG	

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

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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

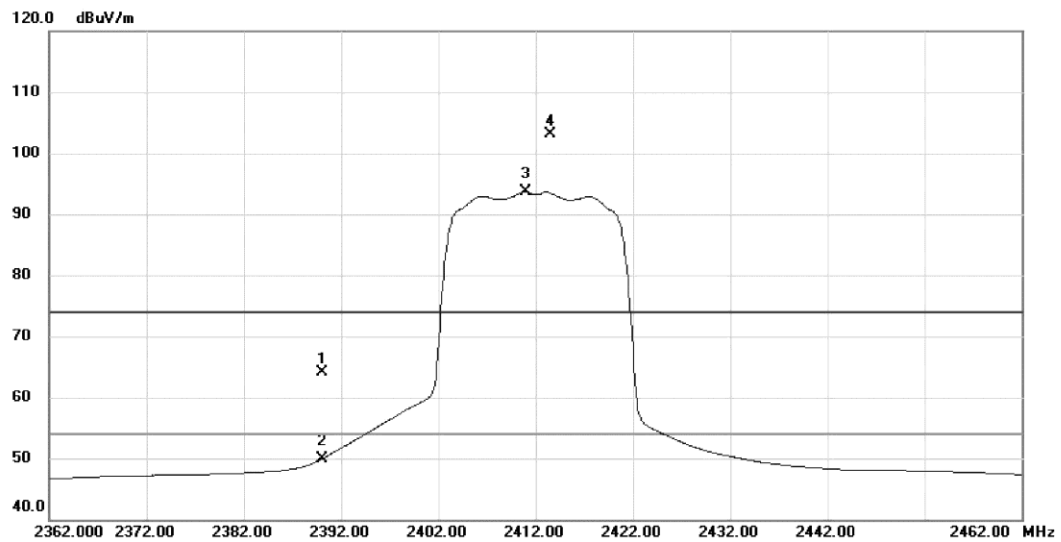
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#13

Date: 2016-11-20

Time: 14:42:29



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	31.13	33.01	64.14	74.00	-9.86	peak	
2		2390.000	16.93	33.01	49.94	54.00	-4.06	AVG	
3	*	2411.000	60.69	33.10	93.79	54.00	39.79	AVG	No Limit
4	X	2413.600	69.93	33.11	103.04	74.00	29.04	peak	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#13

Page: 1

Test engineer :

Vincent


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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

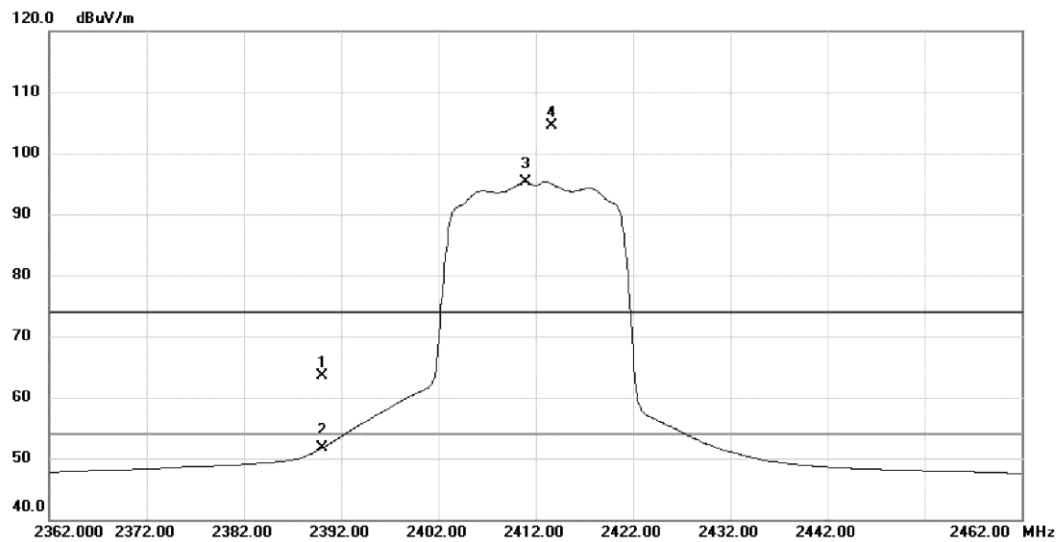
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#14

Date: 2016-11-20

Time: 14:27:29



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	30.51	33.01	63.52	74.00	-10.48	peak	
2		2390.000	18.71	33.01	51.72	54.00	-2.28	AVG	
3	*	2411.000	62.29	33.10	95.39	54.00	41.39	AVG	No Limit
4	X	2413.700	71.41	33.11	104.52	74.00	30.52	peak	No Limit

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

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Site: DG-CB03	Polarization: Vertical	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_N20_2437	
Note:		

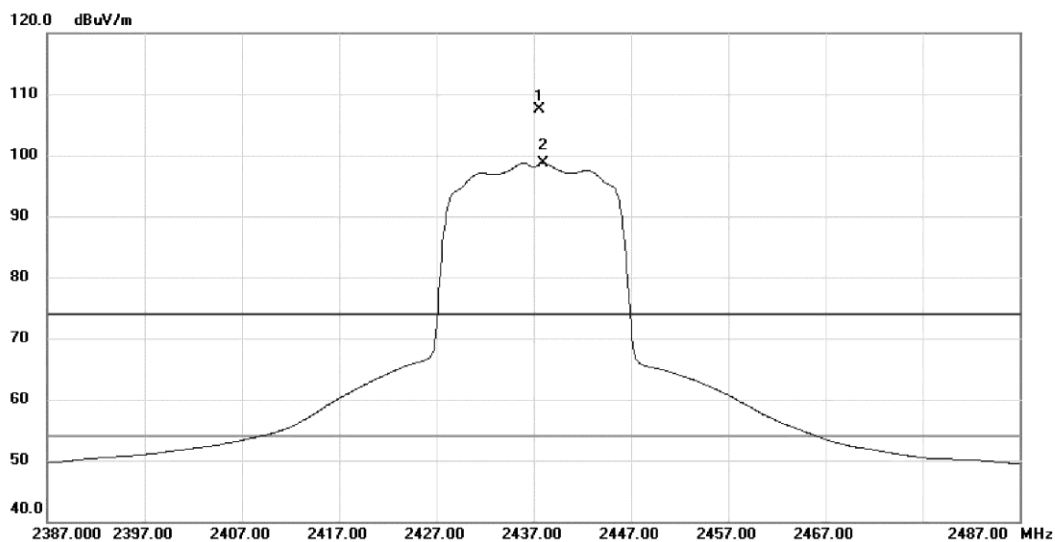
Radiated Emission Measurement

File :FCCP_BANDEDGE

Data :#15

Date: 2016-11-20

Time: 14:40:05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.600	74.33	33.21	107.54	74.00	33.54	peak	No Limit
2	*	2437.950	65.56	33.21	98.77	54.00	44.77	AVG	No Limit

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

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Site: DG-CB03

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

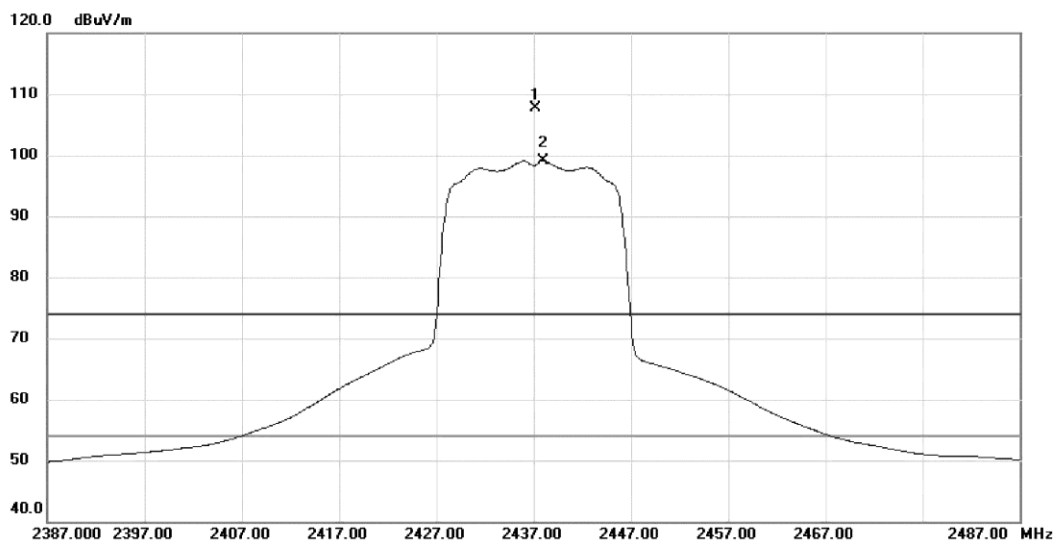
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#16

Date: 2016-11-20

Time: 14:30:05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.150	74.58	33.21	107.79	74.00	33.79	peak	No Limit
2	*	2438.000	65.88	33.21	99.09	54.00	45.09	AVG	No Limit

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

⟨Reference Only

File :FCCP_BANDEGE\Data :#16

Page: 1

Test engineer :

Vincent



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Site: DG-CB03

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

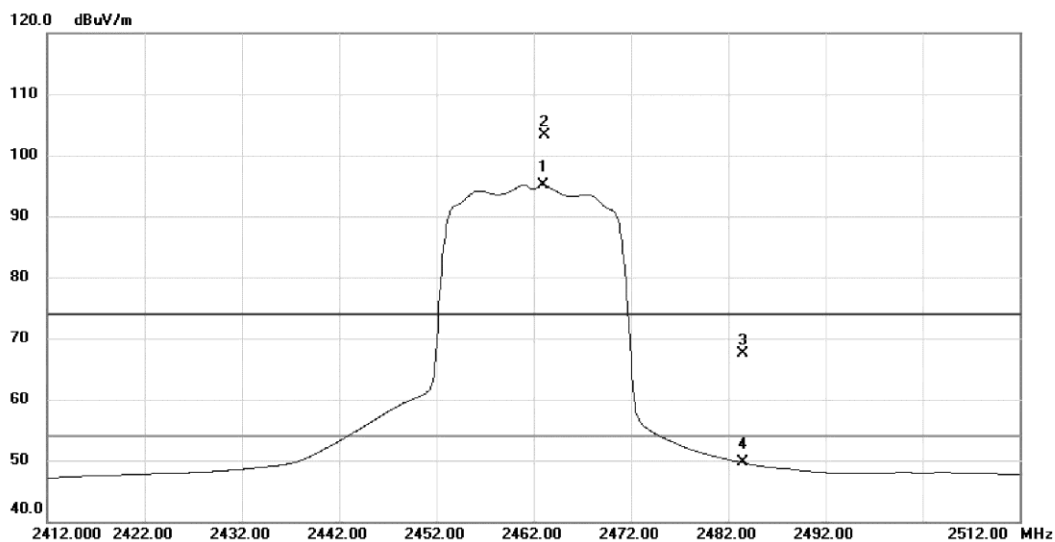
Radiated Emission Measurement

File :FCCP_BANDEGE

Data :#17

Date: 2016-11-20

Time: 14:37:22



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2462.950	61.84	33.31	95.15	54.00	41.15	AVG	No Limit
2	X	2463.150	70.00	33.31	103.31	74.00	29.31	peak	No Limit
3		2483.500	34.12	33.40	67.52	74.00	-6.48	peak	
4		2483.500	16.24	33.40	49.64	54.00	-4.36	AVG	

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

⟨Reference Only

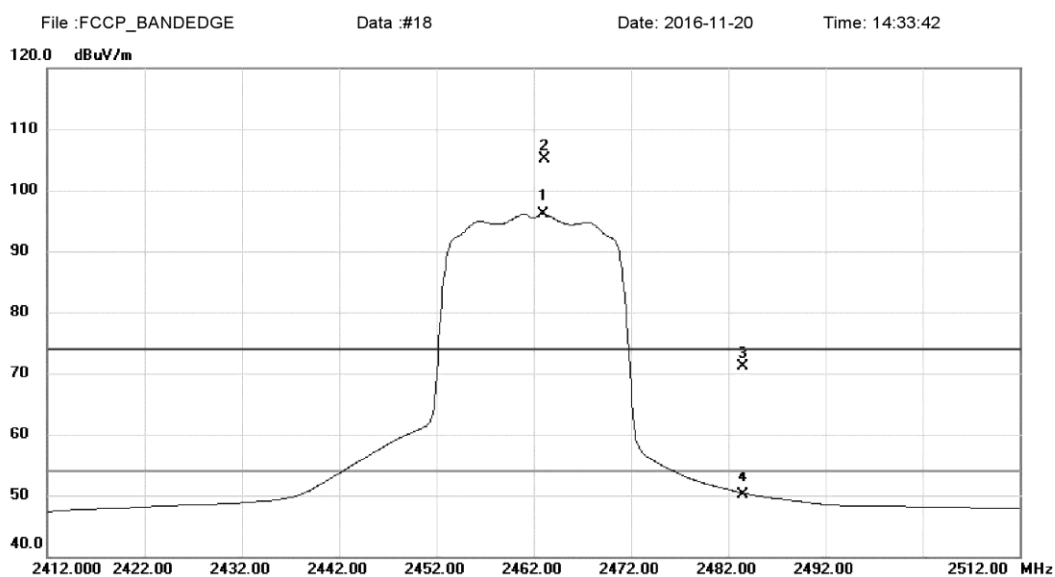


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Site: DG-CB03	Polarization: Horizontal	Temperature: 25 (C)
Limit: FCC RF_15.247_3M_(Peak)	Power: DC 5V	Humidity: 60 %
EUT: Swann Wireless HD Smart Security Camera	Distance: 3m	
M/N: SWWHD-INTCAM	Mode: TX_N20_2462	
Note:		

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2462.950	62.86	33.31	96.17	54.00	42.17	AVG	No Limit
2	X	2463.150	71.88	33.31	105.19	74.00	31.19	peak	No Limit
3		2483.500	37.69	33.40	71.09	74.00	-2.91	peak	
4		2483.500	16.77	33.40	50.17	54.00	-3.83	AVG	

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

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Appendix A.16: Test Results of Radiated Emissions

Battery charging only



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www.newbtl.com



Site: DG-CB02

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

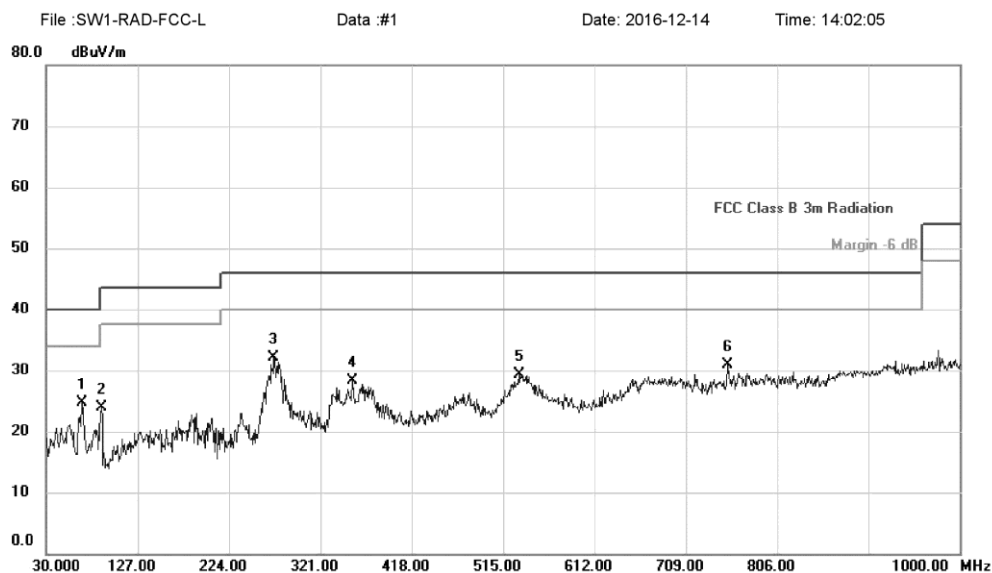
Distance: 3m

Mode: FULL SYSTEM(Charge)

Temperature: 25 (C)

Humidity: 60 %

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		68.3150	39.49	-14.72	24.77	40.00	-15.23	QP	
2		88.2000	40.23	-16.34	23.89	43.50	-19.61	QP	
3	*	271.5300	44.12	-12.00	32.12	46.00	-13.88	QP	
4		354.9500	38.62	-10.41	28.21	46.00	-17.79	QP	
5		531.9750	34.85	-5.61	29.24	46.00	-16.76	QP	
6		754.1050	31.73	-0.75	30.98	46.00	-15.02	QP	

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

<Reference Only


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Site: DG-CB02

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC Class B 3m Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: FULL SYSTEM(Charge)

Note:

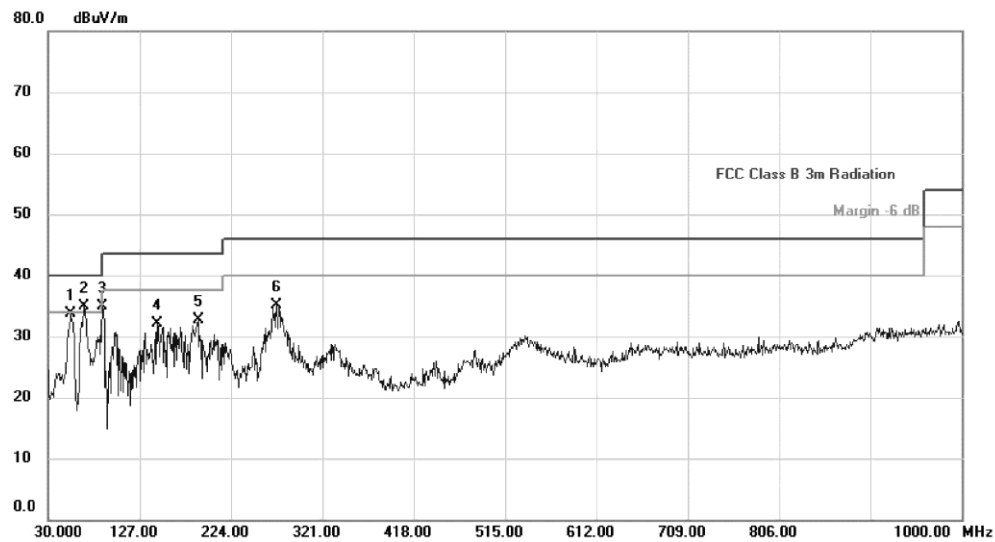
Radiated Emission Measurement

File :SW1-RAD-FCC-L

Data :#2

Date: 2016-12-14

Time: 14:04:23



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		54.2500	45.86	-12.25	33.61	40.00	-6.39	QP	
2	*	68.3150	49.72	-14.72	35.00	40.00	-5.00	QP	
3	!	87.7150	51.19	-16.32	34.87	40.00	-5.13	QP	
4		145.4300	43.96	-11.90	32.06	43.50	-11.44	QP	
5		189.5650	45.92	-13.15	32.77	43.50	-10.73	QP	
6		272.9850	47.10	-11.96	35.14	46.00	-10.86	QP	

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

〈Reference Only

File :SW1-RAD-FCC-LData :#2

Page: 1

Test engineer :

Joyce



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Site: DG-CB02

Limit: FCC above 1G ClassB 3m Radiation(peak)

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3M

Mode: FULL SYSTEM(Charge)

Temperature: 25 (C)

Humidity: 60 %

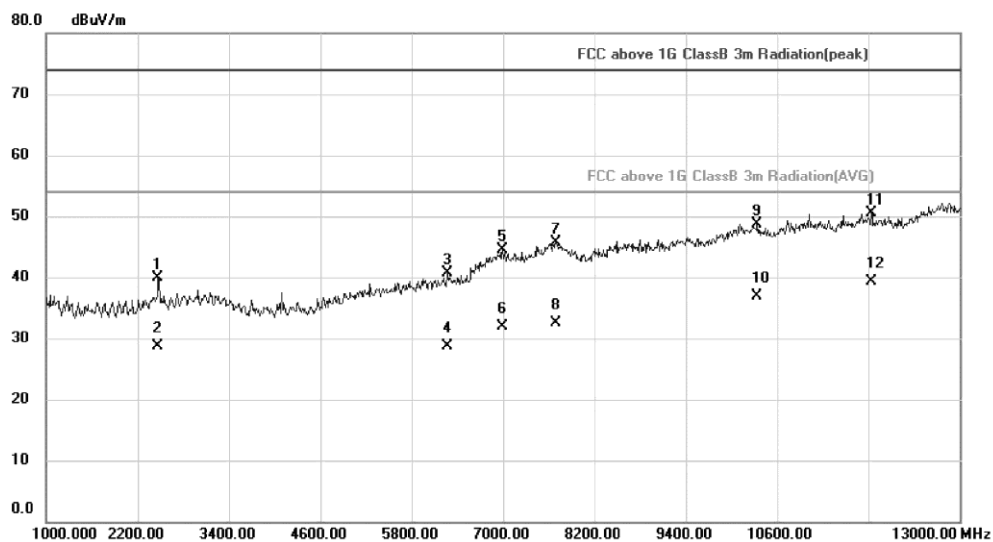
Radiated Emission Measurement

File :SW1-RAD-FCC-H

Data :#1

Date: 2016-12-14

Time: 14:29:59



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2470.000	39.99	0.01	40.00	74.00	-34.00	peak	
2		2470.000	28.67	0.01	28.68	54.00	-25.32	AVG	
3		6268.000	31.57	9.11	40.68	74.00	-33.32	peak	
4		6268.000	19.63	9.11	28.74	54.00	-25.26	AVG	
5		6988.000	33.05	11.38	44.43	74.00	-29.57	peak	
6		6988.000	20.60	11.38	31.98	54.00	-22.02	AVG	
7		7702.000	33.04	12.59	45.63	74.00	-28.37	peak	
8		7702.000	19.88	12.59	32.47	54.00	-21.53	AVG	
9		10336.00	32.47	16.31	48.78	74.00	-25.22	peak	
10		10336.00	20.67	16.31	36.98	54.00	-17.02	AVG	
11		11836.00	32.86	17.64	50.50	74.00	-23.50	peak	
12	*	11836.00	21.69	17.64	39.33	54.00	-14.67	AVG	

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

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www.newbtl.com


Site: DG-CB02

Polarization: **Horizontal**

Temperature: 25 (C)

Limit: FCC above 1G ClassB 3m Radiation(peak)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3M

M/N: SWWHD-INTCAM

Mode: FULL SYSTEM(Charge)

Note:

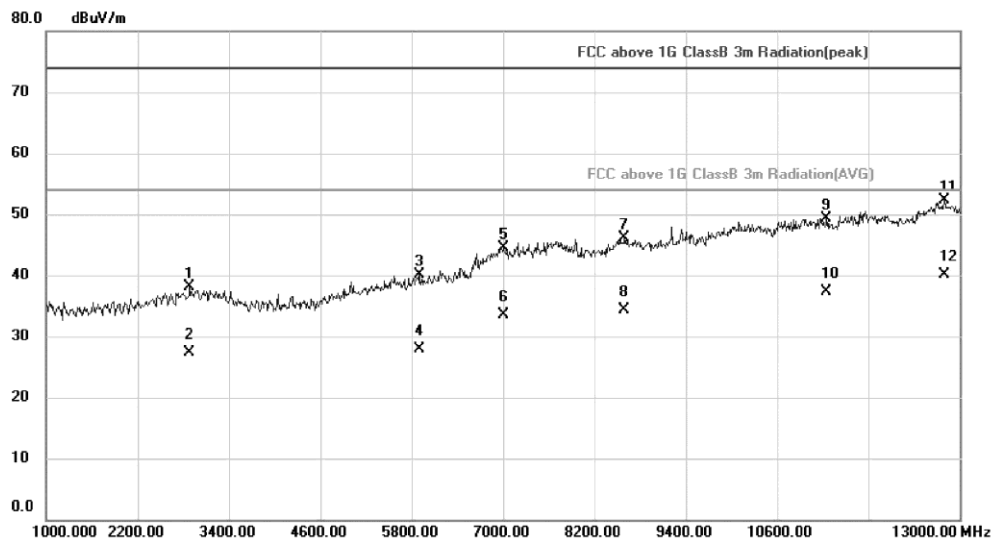
Radiated Emission Measurement

File :SW1-RAD-FCC-H

Data :#2

Date: 2016-12-14

Time: 14:31:45



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2884.000	36.26	1.88	38.14	74.00	-35.86	peak	
2		2884.000	25.44	1.88	27.32	54.00	-26.68	AVG	
3		5896.000	31.66	8.37	40.03	74.00	-33.97	peak	
4		5896.000	19.46	8.37	27.83	54.00	-26.17	AVG	
5		7012.000	33.11	11.45	44.56	74.00	-29.44	peak	
6		7012.000	22.13	11.45	33.58	54.00	-20.42	AVG	
7		8596.000	32.46	13.61	46.07	74.00	-27.93	peak	
8		8596.000	20.68	13.61	34.29	54.00	-19.71	AVG	
9		11248.00	31.72	17.54	49.26	74.00	-24.74	peak	
10		11248.00	19.68	17.54	37.22	54.00	-16.78	AVG	
11		12802.00	33.68	18.53	52.21	74.00	-21.79	peak	
12	*	12802.00	21.63	18.53	40.16	54.00	-13.84	AVG	

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

⟨Reference Only

Appendix A.17: Test Results of Conducted Emissions

Wi-Fi operation with Battery charging



No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com



Site: DG-C02	Phase: L1	Temperature: 25 (C)
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 53 %
EUT: Swann Wireless HD Smart Security Camera	Distance:	
M/N: SWWHD-INTCAM	Mode: TX	
Note:		

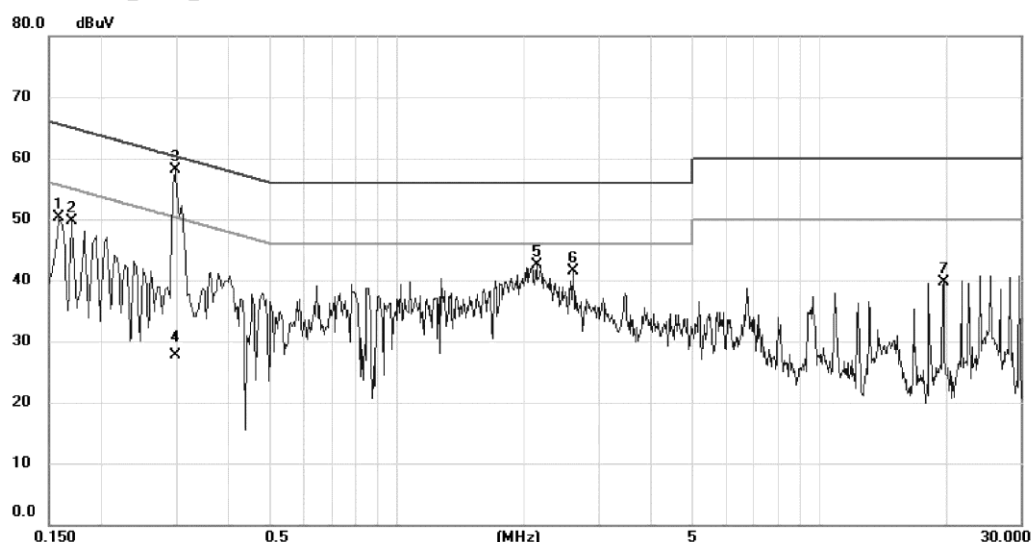
Conducted Emission Measurement

File :FCCP_COND_1

Data :#1

Date: 2016-11-21

Time: 9:29:55



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1580	40.81	9.52	50.33	65.57	-15.24	peak	
2		0.1700	40.21	9.52	49.73	64.96	-15.23	peak	
3	*	0.2980	48.63	9.53	58.16	60.30	-2.14	peak	
4		0.2980	18.13	9.53	27.66	50.30	-22.64	AVG	
5		2.1380	32.62	9.95	42.57	56.00	-13.43	peak	
6		2.6100	31.41	10.09	41.50	56.00	-14.50	peak	
7		19.6420	29.37	10.40	39.77	60.00	-20.23	peak	

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

⟨Reference Only


BTL Inc.
do the best

 No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China.
 Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792
www.newbtl.com


Site: DG-C02

Phase: **N**

Temperature: 25 (C)

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Swann Wireless HD Smart Security Camera

Distance:

M/N: SWWHD-INTCAM

Mode: TX

Note:

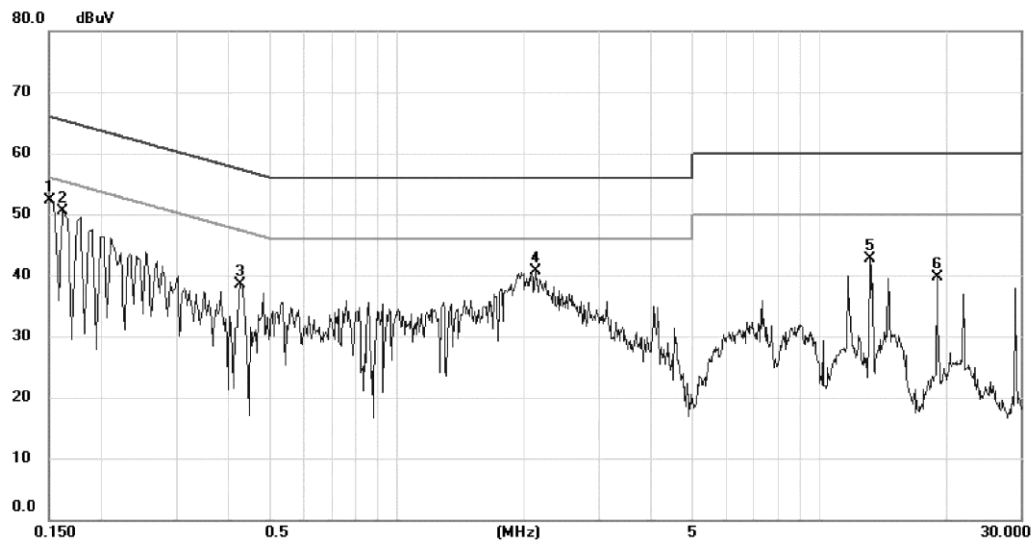
Conducted Emission Measurement

File : FCCP_COND_1

Data : #2

Date: 2016-11-21

Time: 9:33:29



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	42.72	9.52	52.24	66.00	-13.76	peak	
2		0.1620	40.98	9.46	50.44	65.36	-14.92	peak	
3		0.4260	29.15	9.44	38.59	57.33	-18.74	peak	
4		2.1260	31.01	9.72	40.73	56.00	-15.27	peak	
5		13.1740	32.46	10.34	42.80	60.00	-17.20	peak	
6		18.9780	29.19	10.47	39.66	60.00	-20.34	peak	

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

⟨Reference Only

File : FCCP_COND_1Data : #2

Page: 1

Test engineer :

Chay

Appendix B

Test Results of RF Exposure

APPENDIX B.1: RF EXPOSURE COMPLIANCE 2

Appendix B.1: RF Exposure Compliance

Radio Frequency Exposure Compliance

RESULT:

Pass

Test standard : FCC 1.1310
FCC KDB publication 447498 D01 v06

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation

According to the formula

$$Pd = \frac{P_{out} * G}{4R^2 \pi}$$

Where

Pd = power density in mW/cm² or W/m²

Pout = output power to antenna in mW or W

G = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

In here

Pout = 22.94dBm = 196.79mW

G = 3dBi = 2.0 (numeric)

R = 20cm

For Wi-Fi operation:

$$Pd = \frac{P_{out} * G}{4R^2 \pi} = \frac{196.79 * 2.0}{4 * 20^2 * 3.14159} = 0.0783 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2 \text{ for FCC limit}$$

The summed maximum permissible exposure (MPE) level is 0.0783mW/cm². It is less than MPE limit 1mW/cm² for FCC, therefore the device compliance with MPE limit.