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FCC ID : WAZF8T732SKEA5S03

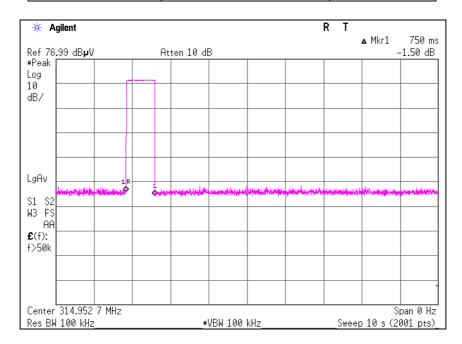
APPENDIX 2: Data of EMI test

Automatically deactivate

Test place Head Office EMC Lab. No.1 Semi Anechoic Chamber

Report No. 30AE0049-HO-01
Date 08/17/2009
Temperature/ Humidity 23 deg.C./ 63%
Engineer Hironobu Ohnishi
Mode Normal use mode

Time of	Limit	Result
Transmitting		
[sec]	[sec]	
0.750	5.00	Pass



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Radiated Emission (Electric Field Strength of Fundamental and Spurious Emission)

Test place Head Office EMC Lab. No.1 Semi Anechoic Chamber

Report No. 30AE0049-HO-01
Date 08/17/2009
Temperature/ Humidity 23 deg.C./ 63%
Engineer Hironobu Ohnishi
Mode Transmitting mode

PK

rĸ	N.												
Frequency	Detector	Read	ding	Ant	Loss	Gain	Duty	Res	sult	Limit	Ma	rgin	Remark
		[dB	uV]	Factor			Factor	[dBu	V/m]		[d	B]	Inside or Outside
[MHz]		Hor	Ver	[dB/m]	[dB]	[dB]	[dB]	Hor	Ver	[dBuV/m]	Hor	Ver	of Restricted Bands
314.976	PK	71.6	68.0	12.8	10.5	27.9	-	67.0	63.4	95.6	28.6	32.2	Carrier
370.781	PK	57.7	56.4	15.4	11.0	28.2	-	55.9	54.6	75.6	19.7	21.0	Outside
629.951	PK	31.4	34.2	19.7	12.7	28.8	-	35.0	37.8	75.6	40.6	37.8	Outside
944.927	PK	36.5	37.0	22.6	14.3	28.0	-	45.4	45.9	75.6	30.2	29.7	Outside
1259.902	PK	53.3	56.1	25.8	1.7	36.8	-	44.0	46.8	75.6	31.6	28.8	Outside
1574.878	PK	62.6	62.3	26.4	1.9	36.6	-	54.3	54.0	73.9	19.6	19.9	Inside
1889.854	PK	56.7	50.5	25.8	2.0	36.4	-	48.1	41.9	75.6	27.5	33.7	Outside
2204.829	PK	54.5	54.5	26.4	2.2	36.1	-	47.0	47.0	73.9	26.9	26.9	Inside
2519.805	PK	58.2	62.1	27.4	2.3	35.8	-	52.1	56.0	75.6	23.5	19.6	Outside
2834.780	PK	56.2	58.2	28.2	2.5	35.9	-	51.0	53.0	73.9	22.9	20.9	Inside
3149.756	PK	51.1	52.4	28.7	2.6	35.9	-	46.5	47.8	75.6	29.1	27.8	Outside

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amprifier)

PK with Duty factor

Frequency	Detector	Read	ding	Ant	Loss	Gain	Duty	Res	sult	Limit	Ma	rgin	Remark
		[dB	uV]	Factor			Factor	[dBu	V/m]		[d	B]	
[MHz]		Hor	Ver	[dB/m]	[dB]	[dB]	[dB]	Hor	Ver	[dBuV/m]	Hor	Ver	
314.976	PK	71.6	68.0	12.8	10.5	27.9	-6.1	60.9	57.3	75.6	14.7	18.3	Carrier
370.781	PK	57.7	56.4	15.4	11.0	28.2	-6.1	49.8	48.5	55.6	5.8	7.1	Outside
629.951	PK	31.4	34.2	19.7	12.7	28.8	-6.1	28.9	31.7	55.6	26.7	23.9	Outside
944.927	PK	36.5	37.0	22.6	14.3	28.0	-6.1	39.3	39.8	55.6	16.3	15.8	Outside
1259.902	PK	53.3	56.1	25.8	1.7	36.8	-6.1	37.9	40.7	55.6	17.7	14.9	Outside
1574.878	PK	62.6	62.3	26.4	1.9	36.6	-6.1	48.2	47.9	53.9	5.7	6.0	Inside
1889.854	PK	56.7	50.5	25.8	2.0	36.4	-6.1	42.0	35.8	55.6	13.6	19.8	Outside
2204.829	PK	54.5	54.5	26.4	2.2	36.1	-6.1	40.9	40.9	53.9	13.0	13.0	Inside
2519.805	PK	58.2	62.1	27.4	2.3	35.8	-6.1	46.0	49.9	55.6	9.6	5.7	Outside
2834.780	PK	56.2	58.2	28.2	2.5	35.9	-6.1	44.9	46.9	53.9	9.0	7.0	Inside
3149.756	PK	51.1	52.4	28.7	2.6	35.9	-6.1	40.4	41.7	55.6	15.2	13.9	Outside

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amprifier) + Duty factor (Refer to Duty factor data sheet)

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^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

^{*} The test above 1GHz was performed with PK detect. Average emission measurements were calculated with PK detect and Duty cycle factor.

^{*} Duty Factor was calculated with the assumption of the worst condition in 100msec.

^{*} All the measured noise was pulse emission.

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-20dB and 99% Occupied Bandwidth

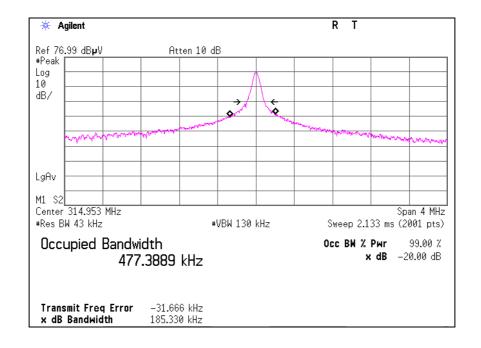
Test place Head Office EMC Lab. No.1 Semi Anechoic Chamber

Report No. 30AE0049-HO-01
Date 08/17/2009
Temperature/ Humidity 23 deg.C./ 63%
Engineer Hironobu Ohnishi
Mode Normal use mode

Bandwidth Limit : Fundamental Frequency 314.95 MHz x 0.25% = 787.37 kHz

-20dB Bandwidth [kHz]	Bandwidth Limit [kHz]	Result
185.33	787.37	Pass

99% Occupied Bandwidth	Bandwidth Limit	Result
[kHz]	[kHz]	
477.39	787.37	Pass



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Duty Cycle

Test place Head Office EMC Lab. No.1 Semi Anechoic Chamber

Report No. 30AE0049-HO-01
Date 08/17/2009
Temperature/ Humidity 23 deg.C./ 63%
Engineer Hironobu Ohnishi
Mode Normal use mode

		ON time(One pulse)	ON time(in 100ms)
Type	Times	[ms]	[ms]
A	37	0.800	29.60
В	12	1.635	19.62

^{*1)}ON time(in 100ms) = Times * ON time(One pulse)

(Total)

ON time	Cycle	Duty	Duty
[ms]	[ms]	(On time/Cycle)	[dB]
49.22	100.00	0.492	-6.15

^{*3)}ON time = Type A's ON time (in 100ms) + Type B's ON time (in 100ms)

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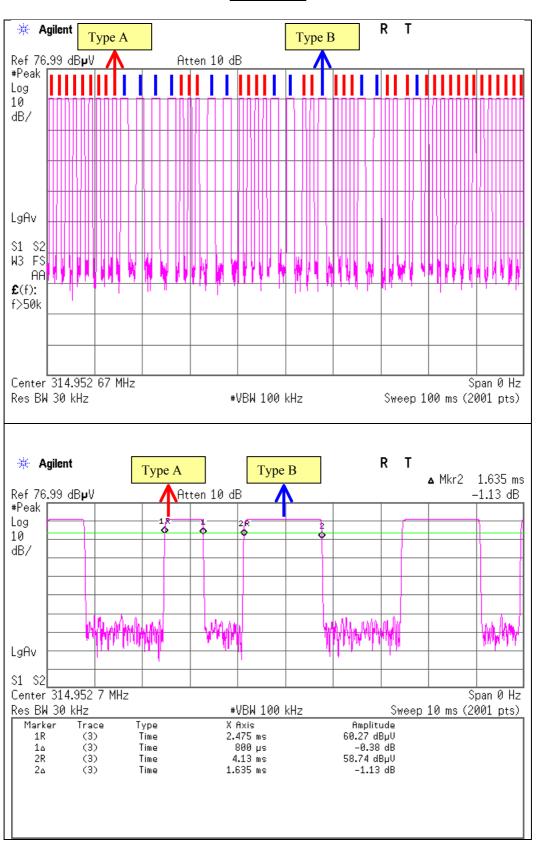
^{*2)} The train of pulses was exceeding 100msec, and that sampled 100msec was the worst case against the pulse train.

^{*4)}Duty = 20log10(ON time/Cycle)

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Duty Cycle



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APPENDIX 3:Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date *
Control No.	Thstrument	Manufacturer	Wiodel No	Serial No	1 est Item	Interval(month)
MAEC-01	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 10m	DA-06881	RE	2009/06/26 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	MOS01	RE	2009/02/06 * 12
MJM-01	Measure	KDS	ES19-55	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	100084	RE	2008/12/01 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032007	RE	2008/11/12 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	9143B006	RE	2008/11/12 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	BL1069	RE	2008/11/14 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent /TSJ	-	-	RE	2008/10/02 * 12
MPA-04	Pre Amplifier	Agilent	8447D	2944A09965	RE	2009/07/03 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	253	RE	2009/06/15 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	233010(1m) / 292410(5m)	RE	2008/09/09 * 12
MPA-01	Pre Amplifier	Agilent	8449B	3008A01671	RE	2009/02/12 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	RE	2009/02/25 * 12

The expiration date of the calibration is the end of the expired month.

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item:

RE: Radiated emission, 99% Occupied Bandwidth, -20dB bandwidth, Automatically deactivate and Duty cycle tests

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