

## APPENDIX 2: Data of DFS test

### U-NII Detection Bandwidth

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , No traffic

REPORT NO : 27DE0139-HO  
REGULATION : FCC 06-96 APPENDIX 7.8.1  
DATE : 02/20/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 31%  
ENGINEER : Takahiro Hatakeda

Frequency [MHz]	Number of Trials [Times]	Number of Detected [Times]	Ratio of Detected [%]	Mark
5290	10	0	0	
5291	10	10	100	FL
5292	10	10	100	
5293	10	10	100	
5294	10	10	100	
5295	10	10	100	
5296	10	10	100	
5297	10	10	100	
5298	10	10	100	
5299	10	10	100	
5300	10	10	100	
5301	10	10	100	
5302	10	10	100	
5303	10	10	100	
5304	10	10	100	
5305	10	10	100	
5306	10	10	100	
5307	10	10	100	
5308	10	10	100	
5309	10	10	100	FH
5310	10	0	0	

**UL Apex Co., Ltd.**

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MF060b(14.06.06)

**Statistical Performance Check (Radar Type 1)**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/16/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 35%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 1

Trial #	Successful Detection
1	Yes
2	Yes
3	No
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	No
10	Yes
11	Yes
12	Yes
13	Yes
14	Yes
15	Yes
16	Yes
17	Yes
18	Yes
19	Yes
20	Yes
21	Yes
22	Yes
23	No
24	Yes
25	Yes
26	Yes
27	Yes
28	Yes
29	Yes
30	Yes

### Statistical Performance Check (Radar Type 2)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/16/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 35%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 2

Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]	Successful Detection
1	23	2.7	219	Yes
2	29	4.1	181	Yes
3	23	3.3	197	Yes
4	24	1.3	187	Yes
5	29	3.8	182	Yes
6	29	5.0	153	Yes
7	29	1.9	169	Yes
8	28	4.6	156	Yes
9	24	1.2	162	Yes
10	23	1.7	217	Yes
11	24	3.0	185	Yes
12	28	4.0	212	No
13	28	4.4	163	Yes
14	28	3.4	229	No
15	24	4.3	177	Yes
16	26	2.6	175	Yes
17	29	4.4	218	No
18	23	4.5	151	Yes
19	26	1.4	200	Yes
20	25	4.0	178	Yes
21	24	3.7	211	Yes
22	25	3.1	210	No
23	29	3.6	201	Yes
24	27	3.2	230	Yes
25	29	3.5	161	Yes
26	29	4.8	227	Yes
27	27	1.3	171	No
28	29	1.3	181	Yes
29	25	4.6	167	Yes
30	26	3.7	199	No

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MF060b(14.06.06)

### Statistical Performance Check (Radar Type 3)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/16/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 35%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 3

Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]	Successful Detection
1	16	9.8	237	No
2	16	6.9	375	No
3	16	8.4	217	Yes
4	17	6.2	435	Yes
5	18	6.4	444	Yes
6	17	6.9	341	Yes
7	18	8.9	361	Yes
8	16	8.4	352	Yes
9	18	7.4	362	Yes
10	17	7.4	352	Yes
11	17	7.1	486	No
12	18	7.8	246	Yes
13	17	8.5	332	Yes
14	16	8.1	402	Yes
15	16	8.5	341	Yes
16	18	9.7	441	Yes
17	16	6.5	209	Yes
18	16	6.9	293	Yes
19	16	7.2	241	Yes
20	17	7.7	332	Yes
21	16	6.8	350	No
22	16	7.0	322	No
23	17	6.6	442	Yes
24	17	6.2	246	Yes
25	18	10.0	419	No
26	18	9.7	232	Yes
27	17	6.4	426	Yes
28	18	6.0	375	Yes
29	18	7.9	293	Yes
30	16	9.0	334	Yes

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### Statistical Performance Check (Radar Type 4)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/16/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 35%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 4

Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]	Successful Detection
1	12	20.0	383	Yes
2	16	12.4	325	Yes
3	13	21.0	404	No
4	12	14.8	285	Yes
5	16	13.6	311	Yes
6	14	13.6	420	Yes
7	12	12.6	365	Yes
8	16	18.7	296	Yes
9	15	15.9	407	Yes
10	13	16.8	438	Yes
11	13	17.8	328	Yes
12	16	13.5	345	No
13	13	16.0	329	Yes
14	16	18.6	396	Yes
15	14	15.5	297	Yes
16	14	13.3	395	Yes
17	13	20.1	469	Yes
18	13	12.2	273	Yes
19	15	20.4	473	Yes
20	12	17.9	447	No
21	14	19.3	376	No
22	16	19.6	234	Yes
23	14	18.9	338	Yes
24	15	15.6	274	Yes
25	16	15.7	223	Yes
26	15	17.8	283	Yes
27	16	11.6	452	No
28	13	16.3	487	No
29	16	11.7	355	No
30	13	13.1	333	No

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### Statistical Performance Check (Radar Type 5)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/20/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 31%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 5

Trial #	Successful Detection
1	Yes
2	Yes
3	Yes
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
11	Yes
12	Yes
13	Yes
14	Yes
15	Yes
16	Yes
17	Yes
18	Yes
19	Yes
20	Yes
21	Yes
22	Yes
23	Yes
24	Yes
25	Yes
26	No
27	Yes
28	Yes
29	Yes
30	Yes

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MF060b(14.06.06)

**Statistical Performance Check (Radar Type 6)**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 measurement room

COMPANY : Omron Corporation  
EQUIPMENT : FA Wireless LAN Unit  
MODEL : WE70-AP  
S/N : 279651000204  
POWER : DC 24V  
Mode : IEEE802.11a , Communication

REPORT NO : 27DE0139-HO  
REGULATION : FCC15.407 APPENDIX 7.8.4  
DATE : 02/20/2007  
TEMPERATURE : 21deg.C.  
HUMIDITY : 31%  
ENGINEER : Takahiro Hatakeda

Waveform : Radar Type 6

Trial #	Successful Detection
1	Yes
2	Yes
3	Yes
4	Yes
5	Yes
6	Yes
7	Yes
8	Yes
9	Yes
10	Yes
11	Yes
12	Yes
13	Yes
14	Yes
15	Yes
16	Yes
17	Yes
18	Yes
19	Yes
20	Yes
21	Yes
22	Yes
23	Yes
24	Yes
25	Yes
26	Yes
27	Yes
28	Yes
29	Yes
30	No

**Parameter Data for Radar Type 5**

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
1	1	3	67	13	1603	1663	787310
	2	2	84	18	1979		633482
	3	2	97	16	1076		987630
	4	3	93	9	1217	1370	395747
	5	3	54	5	1935	1268	505991
	6	2	89	5	1047		567482
	7	2	78	5	1390		366813
	8	1	56	20			995353
	9	3	61	19	1409	1879	1036044
	10	1	52	17			874659
	11	1	56	19			294762

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
2	1	3	75	14	1638	1421	399704
	2	3	82	11	1380	1672	729696
	3	1	71	15			145616
	4	1	99	9			178482
	5	2	70	16	1781		185330
	6	2	64	10	1844		501595
	7	2	60	11	1126		45956
	8	2	70	10	1842		773867
	9	3	78	19	1591	1195	126476
	10	3	61	14	1682	1846	424520
	11	1	64	16			14300
	12	1	78	12			107001
	13	2	98	9	1642		314971
	14	1	79	9			756797

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
3	1	3	71	14	1554	1597	354826
	2	1	68	11			516495
	3	3	78	5	1354	1592	584005
	4	2	78	5	1907		370866
	5	1	69	12			481374
	6	2	88	10	1907		443818
	7	3	86	13	1431	1566	339487
	8	3	54	14	1883	1941	291686
	9	3	58	19	1182	1748	541762
	10	3	95	11	1956	1670	385016
	11	1	63	12			483899
	12	3	79	7	1918	1407	154749
	13	2	85	16	1766		336740
	14	1	72	8			24667
	15	3	98	20	1363	1002	115418
	16	3	80	9	1591	1487	182119
	17	3	52	16	1119	1298	273074
	18	3	62	6	1647	1660	217840
	19	3	62	16	1211	1142	466455
	20	2	75	15	1010		546826



Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
4	1	2	70	15	1000		343125
	2	2	99	8	1597		549625
	3	2	86	7	1739		259405
	4	3	86	10	1120	1385	91269
	5	1	50	14			263960
	6	1	65	5			532307
	7	1	73	5			170588
	8	2	95	7	1287		715072
	9	2	93	11	1131		634036
	10	2	71	13	1708		7812
	11	3	95	10	1575	1858	287992
	12	3	56	18	1772	1318	542592
	13	2	92	13	1182		21445
	14	2	80	5	1982		602985
	15	2	75	6	1869		671530

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
5	1	3	99	14	1338	1405	909048
	2	1	67	18			223291
	3	3	66	16	1066	1064	520138
	4	3	87	15	1578	1643	547402
	5	1	86	6			19901
	6	1	77	9			265765
	7	2	82	7	1558		810461
	8	1	84	11			757720
	9	3	58	18	1963	1849	536211
	10	1	67	16			389184
	11	3	58	5	1152	1208	253338
	12	1	53	14			441423
	13	1	72	17			357283

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
6	1	2	71	20	1000		571500
	2	3	90	10	1805	1810	50434
	3	3	73	7	1697	1746	542599
	4	2	50	6	1621		357211
	5	2	58	5	1967		533859
	6	2	82	20	1736		638924
	7	2	71	6	1876		531441
	8	2	52	10	1689		12035
	9	3	87	18	1650	1846	602416
	10	2	54	12	1160		516304
	11	3	75	13	1262	1647	83298
	12	1	60	12			199351
	13	3	98	13	1666	1292	325376
	14	2	91	18	1481		278940
	15	2	100	7	2000		104208
	16	1	67	14			29169
	17	3	59	15	1459	1776	228776
	18	2	75	8	1542		59738

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
7	1	1	53	7			524
	2	2	79	10	1380		333455
	3	1	93	14			40986
	4	3	58	13	1154	1752	350025
	5	2	77	15	1043		456005
	6	3	68	10	1418	1366	873008
	7	2	83	10	1849		891945
	8	3	62	9	1149	1914	857344
	9	3	72	13	1822	1265	36036
	10	1	76	10			617103
	11	3	85	14	1471	1686	421490
	12	1	86	5			596543
	13	1	62	6			376975

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
8	1	1	60	10			504
	2	3	82	6	1924	1031	547152
	3	2	91	19	1453		611789
	4	2	66	13	1041		414106
	5	1	98	19			601793
	6	1	99	8			571960
	7	1	61	6			726738
	8	2	75	11	1528		277050
	9	2	97	15	1117		113383
	10	3	88	17	1341	1230	761165
	11	1	59	20			311415
	12	3	84	12	1691	1942	596490
	13	3	94	9	1798	1306	79307

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
9	1	3	58	5	1865	1905	276826
	2	3	87	18	1247	1305	140862
	3	1	89	10			405341
	4	1	81	14			346429
	5	2	68	5	1083		736324
	6	3	85	11	1077	1408	212358
	7	2	83	10	1227		105718
	8	2	97	17	1471		71362
	9	1	71	16			739378
	10	1	79	16			648109
	11	2	82	20	1112		835410
	12	2	82	8	1385		483058
	13	1	58	10			484509
	14	2	92	7	1762		753425

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
10	1	3	53	19	1255	1000	305421
	2	2	76	20	1463		424398
	3	2	86	11	1391		217420
	4	3	98	18	1486	1556	222556
	5	3	72	12	1023	1903	362323
	6	3	88	15	1856	1701	519262
	7	1	54	17			369743
	8	3	73	7	1158	1172	407037
	9	3	77	14	1673	1759	414057
	10	2	99	10	1023		673410
	11	1	96	15			252814
	12	2	93	9	1316		304490
	13	3	81	11	1973	1000	644286
	14	3	71	17	1008	1542	491827

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
11	1	3	86	9	1482	1591	295751
	2	2	90	12	1148		773375
	3	1	78	10			558103
	4	1	98	19			742635
	5	3	65	13	1957	1195	688902
	6	3	66	17	1436	1414	816958
	7	3	89	7	1830	1205	769512
	8	3	99	20	1521	1719	628991
	9	1	80	20			302841
	10	1	83	10			569027
	11	1	97	19			65765
	12	2	71	13	1457		906380
	13	3	72	20	1607	1808	444643

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
12	1	1	86	11			1050
	2	3	92	9	1683	1276	413403
	3	1	91	9			1010951
	4	2	68	6	1068		1060968
	5	2	81	6	1342		113937
	6	2	100	12	1925		770145
	7	3	60	17	1934	1996	621231
	8	3	52	9	1061	1335	23319
	9	2	94	14	1994		142413
	10	1	76	8			973152
	11	3	74	8	1199	1234	537609

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
13	1	1	91	10			686
	2	3	67	18	1268	1612	473439
	3	2	73	17	1064		71164
	4	1	72	10			16567
	5	3	52	10	1151	1900	490626
	6	1	81	15			559868
	7	3	66	18	1518	1216	753159
	8	3	57	6	1699	1047	203105
	9	3	53	8	1857	1026	449107
	10	3	71	8	1702	1390	67586
	11	3	92	14	1551	1124	675510
	12	2	96	7	1452		134347
	13	1	78	9			129258
	14	2	88	13	1994		659580
	15	3	70	5	1461	1909	510462

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
14	1	3	55	14	1488	1781	733797
	2	3	100	19	1910	1436	525297
	3	2	64	20	1284		1066693
	4	1	50	18			1248457
	5	3	67	6	1501	1186	317626
	6	2	88	6	1013		1029091
	7	1	92	8			1190849
	8	3	69	16	1225	1499	712549
	9	1	79	10			127685

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
15	1	3	79	20	1982	1315	49296
	2	2	72	15	1956		302357
	3	3	84	19	1568	1180	624762
	4	3	52	15	1149	1200	520895
	5	2	65	11	1571		472199
	6	3	65	6	1811	1343	504815
	7	1	87	14			776640
	8	3	99	12	1116	1413	609620
	9	3	66	16	1405	1373	673753
	10	1	61	15			909830
	11	3	74	7	1084	1798	385667
	12	3	78	8	1901	1706	417754
	13	3	71	19	1929	1120	312837

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
16	1	1	91	10			490
	2	3	74	20	1327	1467	558870
	3	3	82	7	1451	1885	135997
	4	3	59	12	1713	1721	308445
	5	3	66	14	1596	1905	841545
	6	2	84	18	1796		1096431
	7	2	56	18	1468		463799
	8	2	86	11	1043		319978

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
17	1	2	56	15	1000		84501
	2	3	80	12	1626	1055	624910
	3	3	84	9	1841	1604	167823
	4	3	80	13	1960	1754	1059249
	5	3	61	20	1268	1895	564121
	6	1	80	8			504997
	7	3	61	10	1237	1577	235368
	8	3	51	15	1007	1332	726774
	9	3	95	11	1519	1030	812283
	10	1	89	12			177226
	11	2	67	10	1947		665191

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
18	1	3	81	18	1784	1318	123343
	2	2	68	10	1643		321132
	3	1	52	16			892791
	4	2	76	11	1515		941363
	5	2	52	19	1733		686844
	6	2	79	19	1445		569196
	7	3	61	18	1510	1793	1376
	8	3	55	16	1488	1514	889225
	9	1	59	5			118615
	10	2	50	5	1185		89899
	11	3	94	18	1807	1154	546672

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
19	1	1	75	19			190
	2	1	99	15			311610
	3	2	60	8	1111		830392
	4	3	94	5	1307	1908	381976
	5	2	70	13	1726		640573
	6	3	58	15	1956	1562	855974
	7	2	63	13	1936		281147
	8	3	62	8	1951	1610	758115
	9	1	97	14			477741
	10	3	56	10	1959	1410	842995
	11	2	62	10	1633		102409
	12	2	98	20	1954		642609
	13	3	50	5	1375	1848	766387

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
20	1	3	88	11	1295	1497	454143
	2	3	67	8	1617	1318	395183
	3	3	60	13	1581	1911	831638
	4	1	88	5			145276
	5	1	52	10			183414
	6	2	53	12	1929		175104
	7	3	78	8	1560	1929	660300
	8	1	83	8			314143
	9	3	72	12	1211	1068	286869
	10	2	59	9	1663		293765

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
21	1	3	60	17	1456	1390	286464
	2	1	51	6			456283
	3	1	89	14			74290
	4	2	59	7	1962		362153
	5	1	99	11			413163
	6	2	81	12	1631		238326
	7	1	91	20			241603
	8	1	92	5			587151
	9	1	55	7			370551
	10	2	59	5	1817		255783
	11	3	57	15	1451	1926	465286
	12	3	79	17	1309	1572	55122
	13	2	57	15	1149		625413
	14	1	54	20			4895
	15	1	56	18			172530
	16	3	87	19	1427	1615	165296
	17	2	52	13	1887		633296
	18	2	80	15	1589		609787

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
22	1	2	97	11	1000		1070017
	2	2	81	13	1843		481389
	3	1	64	9			676342
	4	1	84	7			13715
	5	3	82	9	1047	1638	1038713
	6	1	62	20			79934
	7	1	77	19			1038423
	8	3	94	10	1412	1625	979284
	9	1	84	8			632989
	10	2	81	11	1238		665019

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
23	1	3	81	11	1409	1583	632783
	2	2	53	14	1678		213805
	3	1	61	12			794049
	4	1	61	8			507396
	5	3	84	18	1679	1053	672612
	6	2	62	20	1736		849437
	7	1	69	10			398782
	8	2	100	20	1486		212654
	9	3	93	13	1183	1944	183326
	10	2	75	15	1014		89346
	11	2	59	7	1764		253010
	12	1	70	19			404356

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
24	1	3	83	11	1068	1372	134476
	2	1	100	5			403140
	3	2	76	7	1005		493341
	4	2	71	18	1245		409969
	5	3	87	7	1387	1195	529836
	6	3	60	17	1636	1163	418410
	7	1	98	17			179720
	8	1	56	16			390092
	9	3	88	20	1344	1674	468817
	10	3	61	19	1455	1909	337935
	11	2	83	10	1126		25146
	12	1	52	12			595381
	13	2	55	19	1272		10437
	14	1	81	8			15023
	15	1	87	15			131105
	16	2	94	7	1397		124468
	17	3	53	15	1970	1668	127460
	18	1	73	19			496588
	19	1	82	15			511450

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
25	1	3	73	18	1506	1053	588098
	2	2	98	11	1278		576663
	3	1	96	12			535671
	4	3	73	20	1771	1394	142333
	5	2	98	8	1342		494157
	6	2	69	13	1206		519350
	7	1	81	9			85025
	8	2	92	14	1578		451325
	9	3	97	8	1755	1399	308339
	10	1	87	14			315855
	11	3	84	9	1375	1006	406968
	12	2	89	5	1657		662000
	13	3	92	5	1671	1845	393865
	14	2	62	17	1992		610788
	15	2	75	5	1107		656876
	16	1	78	7			717109

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
26	1	1	51	19			974
	2	1	53	17			574569
	3	2	85	7	1763		542958
	4	1	91	15			739383
	5	3	91	5	1245	1114	909496
	6	3	78	5	1043	1121	591291
	7	1	77	15			382558
	8	2	61	7	1349		979186
	9	3	100	5	1537	1318	77262
	10	1	75	10			1078669
	11	3	92	12	1966	1561	766944

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
27	1	3	90	13	1624	1470	452379
	2	1	84	7			28730
	3	3	98	15	1737	1655	319188
	4	3	84	17	1896	1189	612251
	5	2	81	11	1048		586202
	6	2	99	7	1086		369413
	7	3	91	15	1966	2000	122232
	8	2	72	18	1281		85034
	9	1	94	18			335501
	10	2	83	15	1972		297917
	11	1	92	5			344164
	12	1	77	10			529272
	13	1	90	13			491706
	14	1	52	6			37446
	15	1	54	12			345559
	16	3	90	11	1602	1139	189380
	17	3	52	18	1870	1761	283352
	18	1	62	5			458515
	19	1	93	6			33043

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
28	1	2	78	17	1000		766534
	2	1	58	10			741439
	3	1	88	14			228051
	4	3	76	12	1487	1215	717470
	5	3	57	15	1388	1617	840883
	6	3	63	8	1686	1902	103308
	7	2	68	8	1138		688686
	8	2	63	5	1915		770816
	9	3	50	17	1039	1599	25716
	10	3	68	14	1892	1731	346721
	11	1	71	9			574707
	12	3	82	17	1802	1904	674196
	13	3	96	18	1917	1428	712773
	14	3	82	12	1363	1658	823892

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
29	1	1	51	20			476
	2	2	76	14	1574		208574
	3	1	70	19			373434
	4	1	80	8			45821
	5	1	67	6			682379
	6	1	55	14			88418
	7	1	96	16			548604
	8	3	57	9	1652	1988	889031
	9	1	93	7			127670
	10	2	76	19	1876		781760
	11	2	55	8	1809		185455
	12	1	67	18			537443
	13	3	54	9	1339	1800	765308



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Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
30	1	1	74	19			1486
	2	3	58	10	1785	1128	1093746
	3	1	70	17			504456
	4	2	89	7	1633		924822
	5	2	88	11	1842		97735
	6	1	83	18			866406
	7	3	78	9	1879	1420	295338
	8	1	89	14			393600

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MF060b(14.06.06)

**Parameter Data for Radar Type 6**

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
1	39	114	5297
	71	210	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
2	10	27	5309
	14	39	5296

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
3	6	15	5300
	39	114	5308
	59	174	5309
	61	180	5304
	91	270	5294

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
4	25	72	5295
	27	78	5308
	60	177	5299
	62	183	5296

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
5	19	54	5291
	71	210	5294
	76	225	5296
	80	237	5308
	89	264	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
6	4	9	5299
	64	189	5304

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
7	5	12	5305
	13	36	5301
	29	84	5299
	39	114	5293
	53	156	5302

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
8	10	27	5291
	36	105	5304
	39	114	5309
	40	117	5294
	64	189	5306

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
9	7	18	5299
	24	69	5304
	64	189	5291
	84	249	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
10	23	66	5300
	56	165	5305
	66	195	5308
	91	270	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
11	4	9	5302
	47	138	5292
	49	144	5293
	76	225	5305

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
12	20	57	5291
	61	180	5303
	79	234	5309
	87	258	5301
	100	297	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
13	34	99	5299
	91	270	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
14	11	30	5302
	17	48	5303
	23	66	5300
	39	114	5305
	55	162	5291
	81	240	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
15	20	57	5309
	22	63	5291
	34	99	5297
	51	150	5303
	62	183	5301
	77	228	5291
	81	240	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
9	7	18	5299
	24	69	5304
	64	189	5291
	84	249	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
10	23	66	5300
	56	165	5305
	66	195	5308
	91	270	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
11	4	9	5302
	47	138	5292
	49	144	5293
	76	225	5305

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
12	20	57	5291
	61	180	5303
	79	234	5309
	87	258	5301
	100	297	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
13	34	99	5299
	91	270	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
14	11	30	5302
	17	48	5303
	23	66	5300
	39	114	5305
	55	162	5291
	81	240	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
15	20	57	5309
	22	63	5291
	34	99	5297
	51	150	5303
	62	183	5301
	77	228	5291
	81	240	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
16	49	144	5305
	50	147	5296
	58	171	5295
	82	243	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
17	34	99	5305
	49	144	5296
	54	159	5304
	77	228	5295
	84	249	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
18	42	123	5296
	54	159	5302
	80	237	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
19	4	9	5294
	56	165	5298
	63	186	5291
	82	243	5295
	89	264	5297
	100	297	5304

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
20	22	63	5291
	65	192	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
21	22	63	5300
	55	162	5295
	93	276	5293
	96	285	5304

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
22	7	18	5304
	26	75	5303
	40	117	5309
	55	162	5295
	72	213	5297

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
23	9	24	5301
	10	27	5309
	35	102	5306
	50	147	5308
	75	222	5293
	92	273	5295

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
24	14	39	5303
	21	60	5295
	46	135	5292
	84	249	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
25	61	180	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
26	4	9	5291
	64	189	5293
	69	204	5297
	93	276	5299

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
27	18	51	5305
	59	174	5292
	87	258	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
28	18	51	5295
	53	156	5303

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
29	16	45	5306
	20	57	5291
	53	156	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
30	73	216	5291

### APPENDIX 3:Test instruments

#### EMI Test Equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MOS-14	Thermo-Hygrometer	Custom	CTH-180	DFS	2006/01/19 * 24
MSG-05	Signal Generator	Agilent	E4438C	DFS	2006/06/03 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	DFS	2006/09/13 * 12
MPSC-01	Power splitters/Combiners	Mini-Circuit	ZFSC-2-2500	DFS	2006/09/20 * 12
MPSC-02	Power Splitters/Combiners	Mini-Circuit	ZFSC-2-10G	DFS	2006/09/25 * 12
MPSC-04	Power Splitters/Combiners	Mini-Circuit	ZFSC-2-10G	DFS	2007/01/17 * 12
MPD-01	PowerDivider DC to 26.5GHz	Agilent	11636B	DFS	2006/03/18 * 12
MCC-05	Microwave Cable 1G-40GHz 2m	Storm	421-011 ( 90-1394-079 )	DFS	2007/01/12 * 12
MCC-06	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	DFS	2006/02/02 * 12
MCC-36	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	DFS	2006/11/13 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	DFS	2006/11/13 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	DFS	2006/11/13 * 12
MAT-21	Attenuator(20dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-120	DFS	2007/01/11 * 12
MAT-22	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	DFS	2006/03/18 * 12
MAT-37	Attenuator(10dB)1-40GHz	Weinschel	54A-10	DFS	2006/12/12 * 12
MAT-38	Attenuator(10dB)1-40GHz	Weinschel	54A-10	DFS	2006/12/12 * 12
MAT-39	Attenuator(20dB)1-40GHz	Weinschel	54A-20	DFS	2006/12/12 * 12
MAT-40	Attenuator(20dB)1-40GHz	Weinschel	54A-20	DFS	2006/12/12 * 12
MSW-07	Stopwatch	RS	694	DFS	2006/11/21 * 60
MSTW-30	Signal Studio Software for DFS	Agilent	N7620A-101	DFS	-
MSTW-31	Radar Generating Software for DFS	Agilent	-	DFS	-
MLE-07	Note PC	IBM	T30 ( = 2366-LJ7)	DFS	-

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.

DFS: Dynamic Frequency Selection

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MF060b(14.06.06)