

From: Shigeru Kinoshita
To: Mike Kuo
Cc: ?? ??; ?? ??; ?? ?
Subject: Re: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524

Dear Mr.Mike Kuo
Thank you for good advice and your suggestions.
Please confirmed the three Attaced files.
1.KL80020490S.pdf:Revised Test Report of part24
2.AntennaConductedPlot.pdf: Harmonics frequency plot in Antenna Conducted Emission
3.Additional Report.pdf: Spurious frequency plot in Antenna Conducted Emission

Question #6: Please confirm page 5 of 46
Question #7: Please confirm page 30 of 46 Add items : Spectrum Analyzer
Setting RBW, VBW etc

Question #9: Please confirm AntennaConductedPlot.pdf & Additional Report.pdf

Best Regards

Shigeru Kinoshita

----- Original Message -----

From: "Mike Kuo" <MKUO@CCSEMC.com>
To: "'Shigeru Kinoshita'"
Subject: RE: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524

> Hi Shigeru:
>
> Question #6 : if the power was measured with power meter, please change the
> revised test report to indicate the power was measured with power meter.
> (
> In the revised test report, it indicated the spectrum analyzer was used.)
>
> Best Regards
>
> Mike Kuo
>
> -----Original Message-----
> From: Shigeru Kinoshita
> To: Mike Kuo
> Subject: Re: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524
>
>
> Dear Mike Kuo
> Thr JQA ansewrs for Question #6,#7,#9.of Part24 Test Report.
>
> > Question #6: Transmitting Power (TP):Page Page 5 of 46 of Part 24
> test
> > report. The description indicates that spectrum analyzer was used but
> the
> > diagram indicates the power meter. Please explain.
> >

> > CCS : Received revised test report. Per the test report, Transmitting
> power
> > was measured with Spectrum Analyzer. Please provide spectrum plots with
> > instrument setting indicated.
> >
> JQA: In the JQA, The transmitter Power is measurd with a power Meter, not
> used the Spectrum Analyzer.
>
>
> > Question #7: Transmitting Power (EIRP) : Page 30 of 46. Please
provide
> > the correction factor used to calculate the EIRP. Please indicate the
> > spectrum analyzer reading, SG reading, the antenna gain and cable lost.
> > Please also provide the instrument setting of spectrum analyzer used
> during
> > the tests.
> >
> > CCS: Per revised test report, all information have been included except
> for
> > the instrument setting. Please provide RBW and VBW used during EIRP
> > measurement.
> >
> JQA :
> Please refer to the attached file 'Description of EIRP.pdf', revised
> paper(draft) of Page30.
>
>
> > Question #9: Please provide antenna conducted spurious emission plots.
> >
> > CCS : No spectrum plots are included in the revised test report, please
> > provide the plots.
> >
> JQA: The antenna conducted spurious emisiion test is re-testing now.
>
> Best Regards
>
> JAPAN QUALITY ASSURANCE ORGANIZATION(JQA)
> KITA-KANSAI TESTING CENTER
> TESTING DEPT. EMC DIV.
> Shigeru Kinoshita
> e-mail: kinoshita-shigeru@jqa.jp
> ----- Original Message -----
> From: "Mike Kuo" <MKUO@CCSEMC.com>
> To: "'Y.Uchida'"
> Subject: FW: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524
>
>
> > Hi Mr. Uchida:
> >
> > Please only address question #6, #7, and #9. All other replies to rest
of
> > questions are O.K.
> >
> > Best Regards
> >
> > Mike Kuo
> >

> > -----Original Message-----
> > From: CERTADM
> > Sent: Friday, January 17, 2003 4:04 PM
> > To: 'mkuo@ccsemc.com'
> > Subject: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524
> >
> >
> > Notice_content
> > -----
> > This notice is to recap the previous questions asked and the replies you
> > have provided so far:
> >
> > Administrative review portion:
> >
> > Question #1: Please provide EUT's Internal and External photos.
> >
> > CCS: Files received. No more question on this item.
> >
> > Question #2: Please provide EUT's Tune up procedure. Tune up procedure
> > normally is confidential document to the manufacturer. If tune up
> > procedure
> > is considered as confidential document, please also modify the request
> > for
> > confidentiality letter to include this document.
> >
> > CCS: Files received. Since there is no revised confidentiality letter
> > provided, tune up procedure will not be granted as confidential
> > document.
> >
> > Question #3: Please provide theory of operation to address the
> > requirements
> > listed in section 2.1033(c) (6)(8)(10)(13) of FCC rules. Theory of
> > operation is normally considered as confidential document to the
> > manufacturer. If request for confidential is desired, please modify
> > request
> > for confidentiality letter to include this document.
> >
> > CCS : File received. Since there is no revised confidentiality letter
> > provided, theory of operation will not be granted as confidential
> > document.
> >
> > Question #4: User Manual file titled ' GS-200-Safety ". In this 7 pages
> > user manual, it mentioned RF Exposure warning statement. However,
> > there is no place mentioned the body worn instruction to the end user.
> > Please provide it. In addition, the Exposure to Radio Wave section, it
> > listed some general guideline to the end user but with some blank
> > information. If measured SAR value is not desired to list in the user
> > manual, please modify this section. (FCC does not require the
> > manufacturer
> > to list the highest measured head and body worn SAR value in the user
> > manual
> >).
> >
> > CCS: Files received. No more question on this item.
> >
> > Question #5: FCC Part 24 report has security protection. Please provide
> > test

> > setup photo file.
> >
> > CCS: File received. No more question on this item.
> >
> > FCC Part 24 technical portion:
> >
> >
> > Question #6: Transmitting Power (TP):Page Page 5 of 46 of Part 24
test
> > report. The description indicates that spectrum analyzer was used but
the
> > diagram indicates the power meter. Please explain.
> >
> > CCS : Received revised test report. Per the test report, Transmitting
> power
> > was measured with Spectrum Analyzer. Please provide spectrum plots with
> > instrument setting indicated.
> >
> > Question #7: Transmitting Power (EIRP) : Page 30 of 46. Please
provide
> > the correction factor used to calculate the EIRP. Please indicate the
> > spectrum analyzer reading, SG reading, the antenna gain and cable loss.
> > Please also provide the instrument setting of spectrum analyzer used
> during
> > the tests.
> >
> > CCS: Per revised test report, all information have been included except
> for
> > the instrument setting. Please provide RBW and VBW used during EIRP
> > measurement.
> >
> > Question #8 Unwanted radiation measurement, page 31 of 46. Based upon
the
> > measurement procedures described in page 10 of 46 of test report, the
> > unwanted radiation measurement did not use substitution method. Please
> > note: for licensed radio, the radiated spurious emission must be
measured
> > with substitution method, it is not a field strength measurement.
Please
> > redo the tests and provide additional test data.
> >
> > CCS: Per revised test report, radiated spurious emission was measured
> again
> > with substitution method. No more question on this item.
> >
> > Question #9: Please provide antenna conducted spurious emission plots.
> >
> > CCS : No spectrum plots are included in the revised test report, please
> > provide the plots.
> >
> > SAR portion:
> >
> > Question #10: Please provide a duty cycle plot to verify the duty cycle
is
> > 11.7%.
> >
> > CCS : SAR test report has been resubmitted. Duty cycle plot is included

> and
> > verified. No more question on this item.
> >
> > Question #11: What is the liquid depth used during the test ?
> >
> > CCS: SAR test report has been resubmitted. Liquid depth is 15.1cm per
the
> > test report. No more question on this item.
> >
> > Question #12: Please explain the reason to use the conversion factor of
> 5.4
> > for head. The probe calibration file indicates the conversion factor
for
> > 1800MHz/head should be 5.5.
> >
> > CCS: Revised SAR test report has been resubmitted. Conversion factor
used
> > agree with probe calibration file. No more question on this item.
> >
> > Question #13: The conversion factor for body worn SAR and head SAR are
> > identical. For body worn SAR tests, body worn conversion factor shall
be
> > used. Please provide body worn SAR plot with body conversion factor and
> > provide the probe calibration file.
> >
> > CCS :Revised SAR test report has been resubmitted. Conversion factor
for
> > body has been used and verified per probe calibration file. No more
> > question on this item.
> >
> > Question #14: Please explain why the conducted output power measured
> during
> > SAR tests are lower than those readings reported in FCC Part 24 report.
> Per
> > FCC instruction, the conducted output power used during SAR test shall
be
> > greater or equal to those number in the EMC report.
> >
> > CCS : The max. conducted output power reported in the revised Sar report
> is
> > 29.58dBm Vs Part 24 test report :29.69dBm. The tune up procedure
> indicates
> > 28.8dBm. The power used during SAR is higher than the max. power in the
> > tune up procedure but it is within the power tolerance. No more
question
> on
> > this item.
> >
> > Question #15: Please explain the reason that the output power used for
> GPRS
> > modulation is lower the GSM modulation but the duty cycle is the same.
> >
> > CCS: The output power listed in the revised SAR test report, the output
> > power are in agreement. No more question on this item.
> >
> > Question #16: Please provide detail description on how the modulation
and

> > power were used and selected. Is it equipped with test mode or base
> station
> > simulator was used ?
> >
> > CCS: Test mode and modulation description has been documented in the
> revised
> > test report, no more question on this item.
> >
> > Best Regards
> >
> > Mike Kuo
> > The items indicated above must be submitted before processing can
continue
> > on the above referenced application. Failure to provide the requested
> > information within 60 days of the original e-mail date may result in
> > application dismissal and forfeiture of the filing fee. Also, please
note
> > that partial responses increase processing time and should not be
> submitted.
> > Any questions about the content of this correspondence should be
directed
> to
> > the e-mail address listed below the name of the sender.