

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007953.D
 Acq On : 09 Mar 2019 01:21
 Operator : JC/SP
 Sample : K1793-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20190305

Quant Time: Mar 09 03:57:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262480	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	409953	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	391799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188522	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	144661	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
35) Dibromofluoromethane	5.50	113	133317	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
50) Toluene-d8	8.71	98	500822	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.13	95	184069	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	

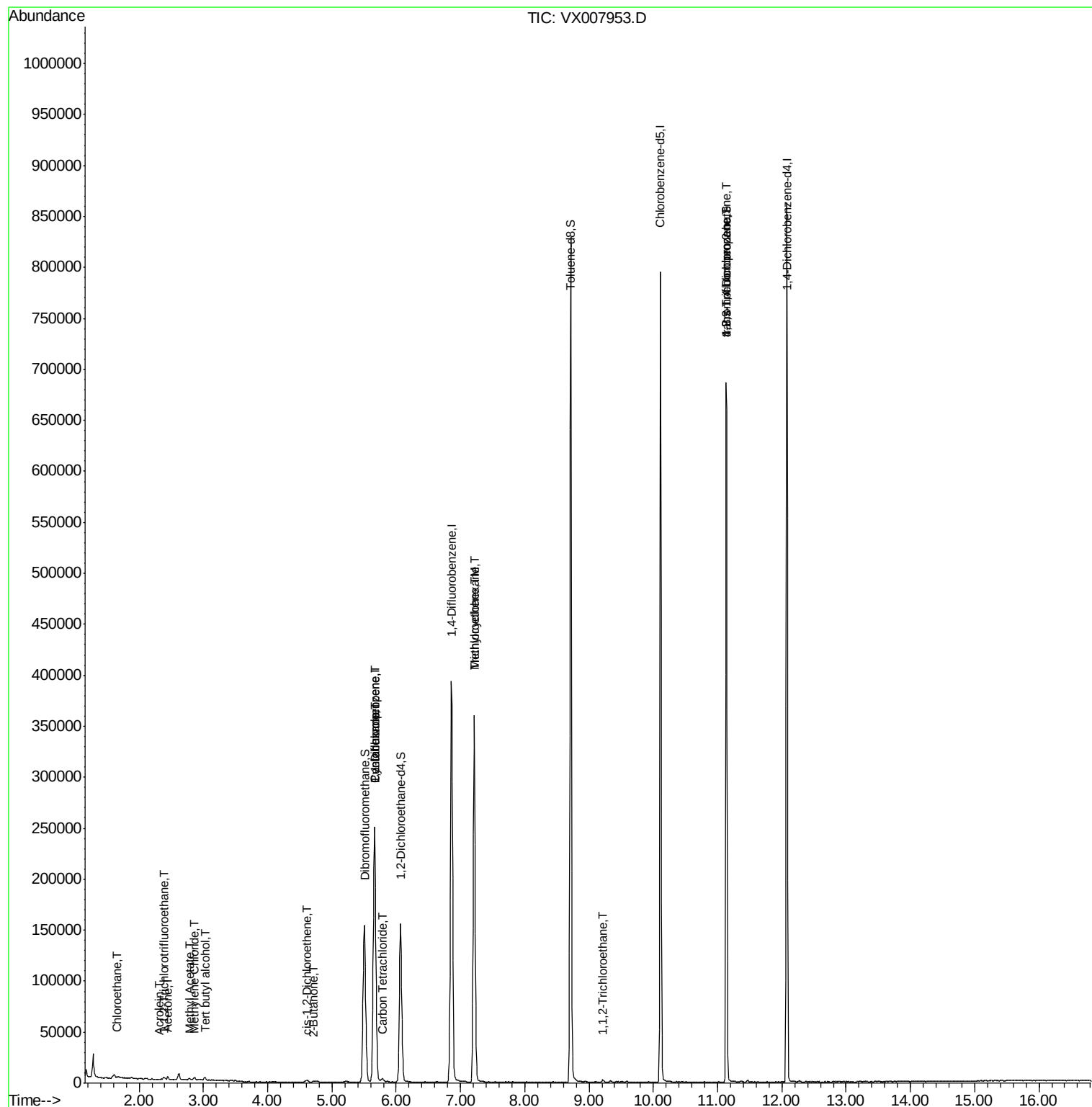
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	50	Below Cal	#	2
6) Chloroethane	1.66	64	424	0.222	ug/l #	48
9) 1,1,2-Trichlorotrifluoroet	2.40	101	744	0.321	ug/l #	88
11) Tert butyl alcohol	3.03	59	1648	2.661	ug/l #	73
13) Acrolein	2.32	56	22	1.604	ug/l #	13
16) Acetone	2.45	43	3183	1.986	ug/l	99
17) Carbon Disulfide	2.57	76	719	Below Cal	#	18
18) Methyl Acetate	2.78	43	2219	0.652	ug/l	100
20) Methylene Chloride	2.86	84	1023	0.401	ug/l #	87
25) 2-Butanone	4.71	43	1020	0.450	ug/l	90
27) cis-1,2-Dichloroethene	4.61	96	1039	0.370	ug/l	98
31) Cyclohexane	5.67	56	4139	0.973	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16615	4.476	ug/l #	49
38) Carbon Tetrachloride	5.78	117	2334	0.662	ug/l #	77
39) Methylcyclohexane	7.22	83	1697	0.377	ug/l #	1
44) Trichloroethene	7.21	130	144341	47.396	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	710	0.260	ug/l #	87
76) 1,2,3-Trichloropropane	11.13	75	85434	21.596	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	85434	69.032	ug/l #	11

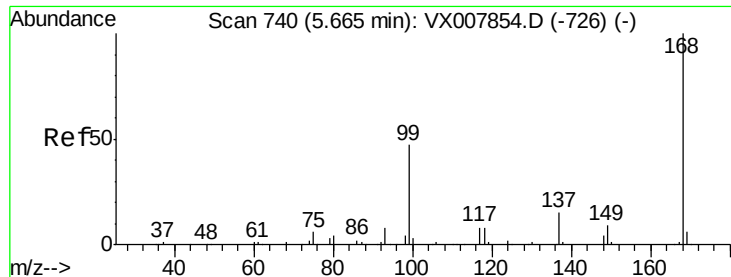
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

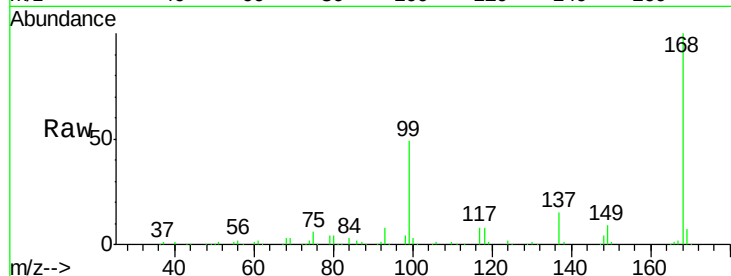
RE117D1-20190305

Tot Ion:168 Resp: 262480

Ion Ratio Lower Upper

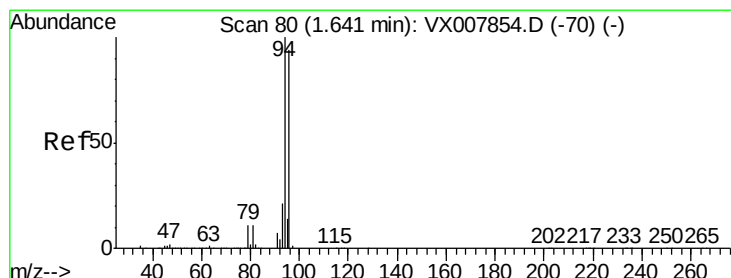
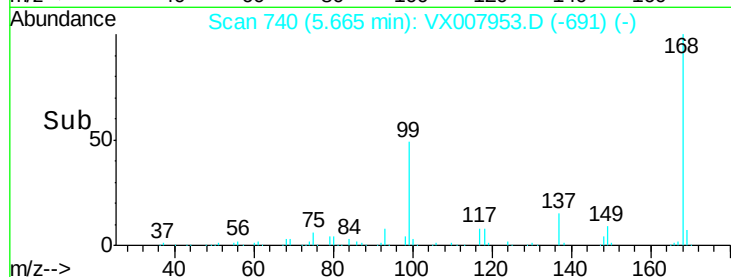
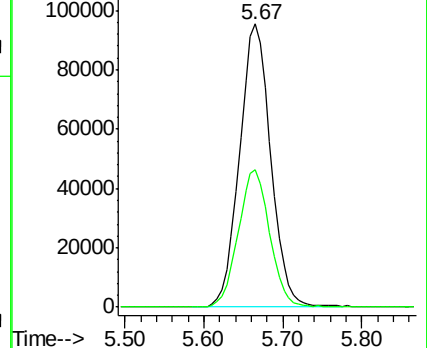
168 100

99 48.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007953.D

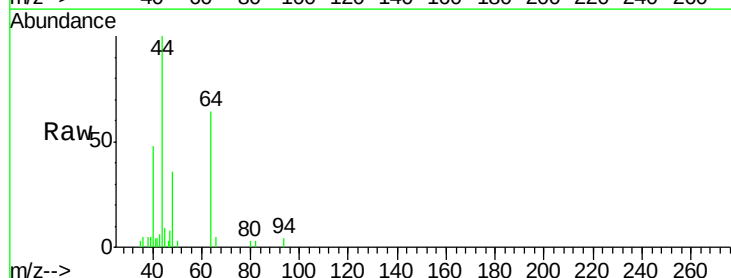
Acq: 09 Mar 2019 01:21

Tgt Ion: 94 Resp: 50

Ion Ratio Lower Upper

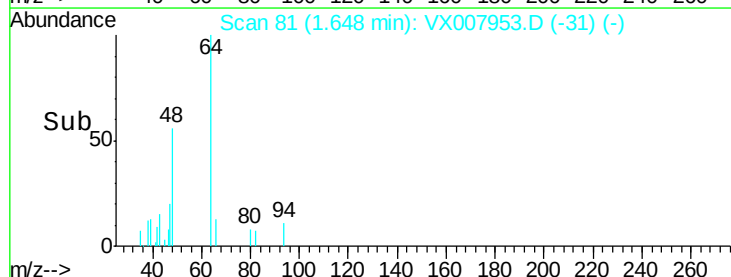
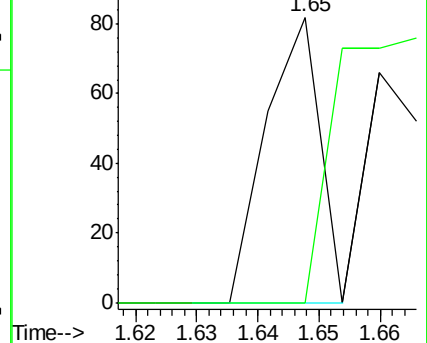
94 100

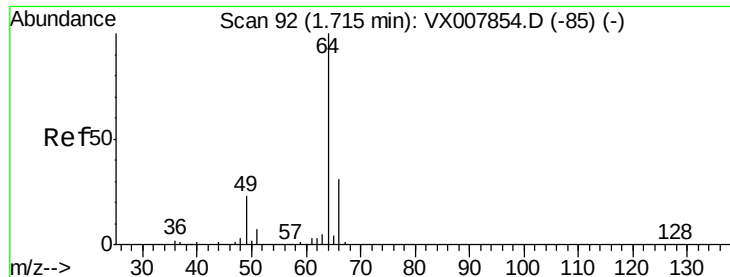
96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.222 ug/l

RT: 1.66 min Scan# 83

Delta R.T. -0.05 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

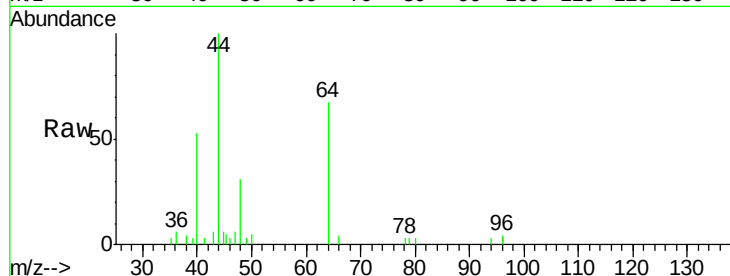
RE117D1-20190305

Tot Ion: 64 Resp: 424

Ion Ratio Lower Upper

64 100

66 2.5 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

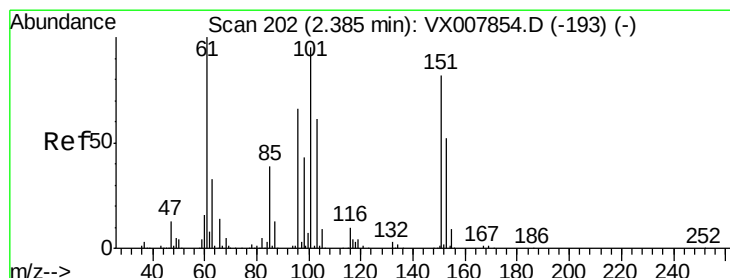
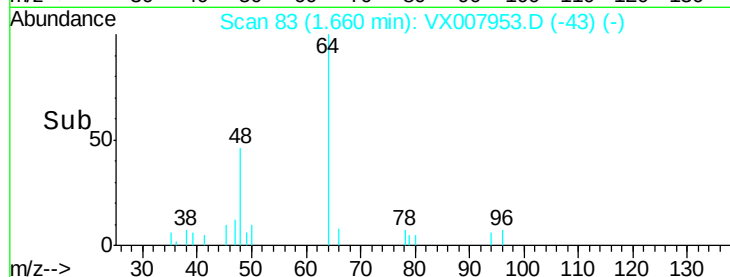
1.66

1000

500

0

Time--> 1.62 1.64 1.66 1.68



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.321 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

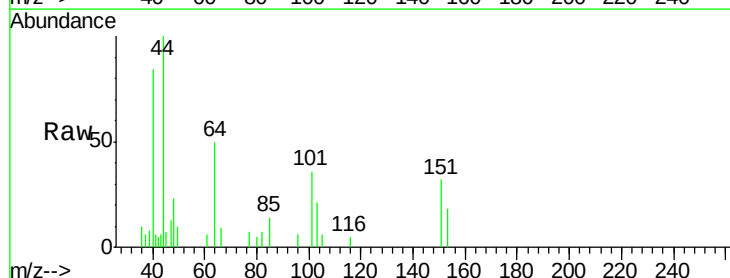
Tgt Ion:101 Resp: 744

Ion Ratio Lower Upper

101 100

85 54.8 33.8 50.6#

151 93.3 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.40

400

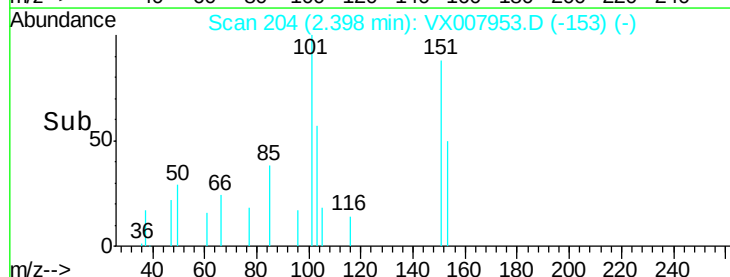
300

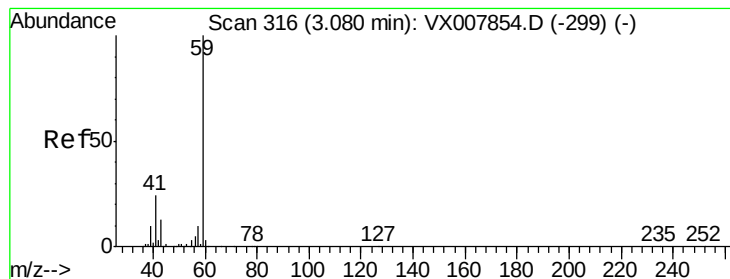
200

100

0

Time--> 2.35 2.40 2.45



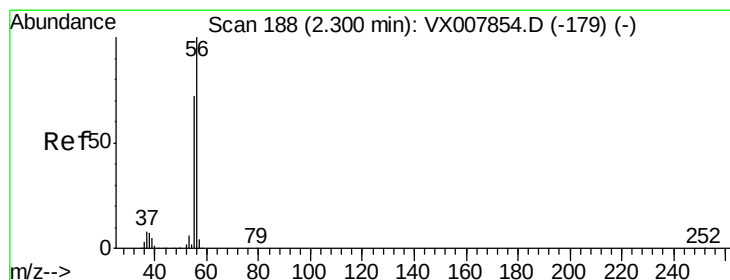
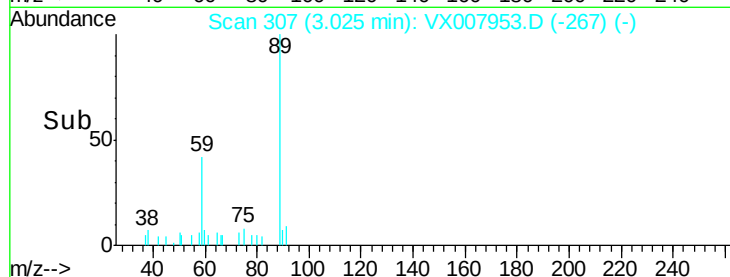
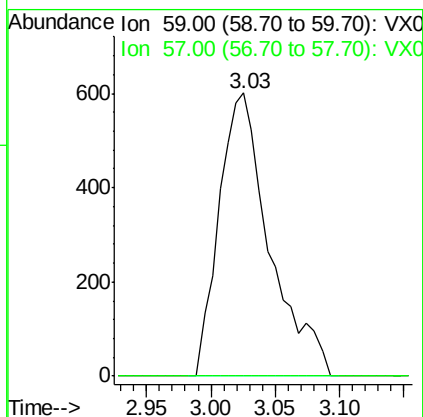
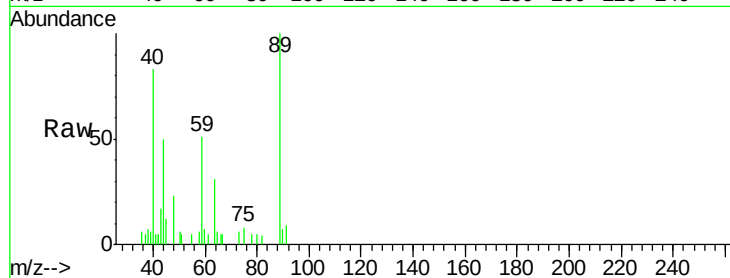


#11

Tert butyl alcohol
 Concen: 2.661 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX007953.D
 Acq: 09 Mar 2019 01:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20190305

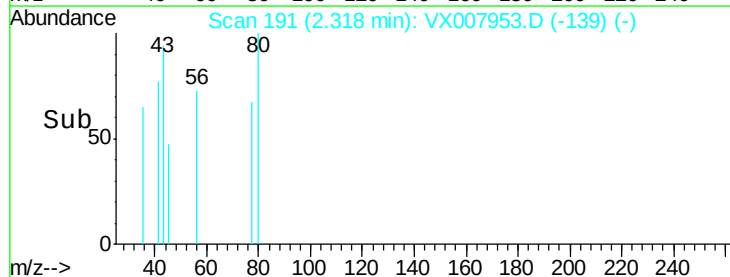
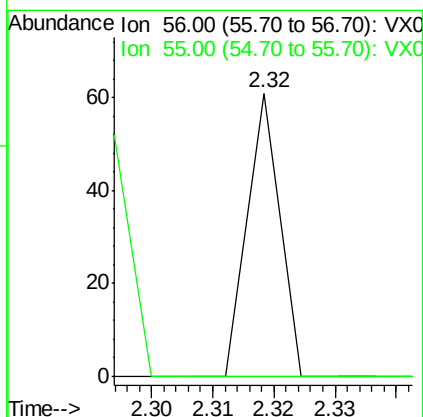
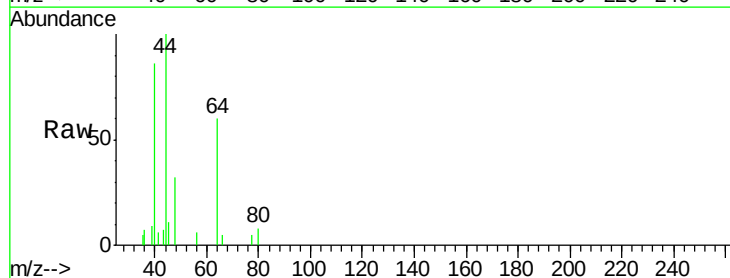
Tot Ion: 59 Resp: 1648
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

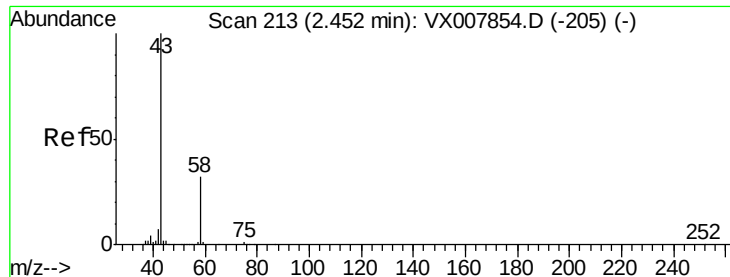


#13

Acrolein
 Concen: 1.604 ug/l
 RT: 2.32 min Scan# 191
 Delta R.T. 0.02 min
 Lab File: VX007953.D
 Acq: 09 Mar 2019 01:21

Tgt Ion: 56 Resp: 22
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.8 86.6#





#16

Acetone

Concen: 1.986 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

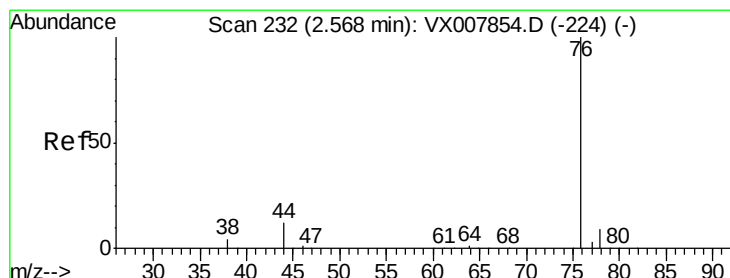
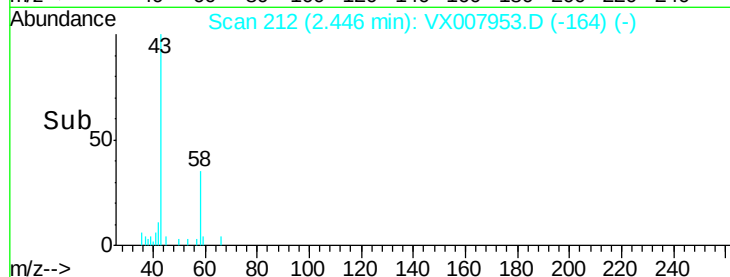
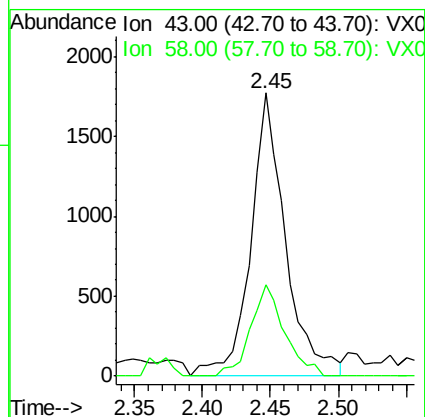
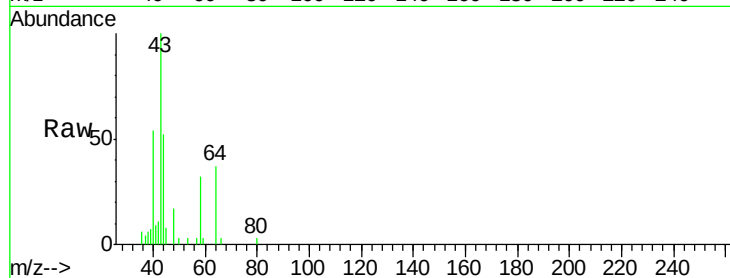
RE117D1-20190305

Tot Ion: 43 Resp: 3183

Ion Ratio Lower Upper

43 100

58 32.4 25.5 38.3



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX007953.D

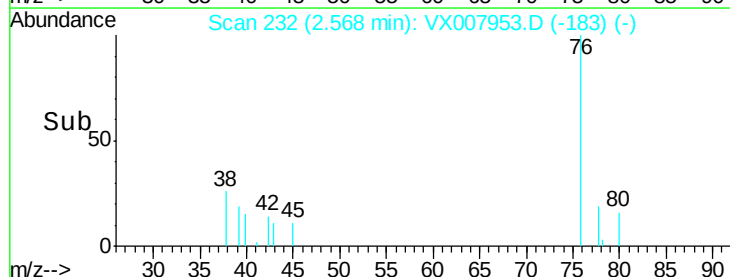
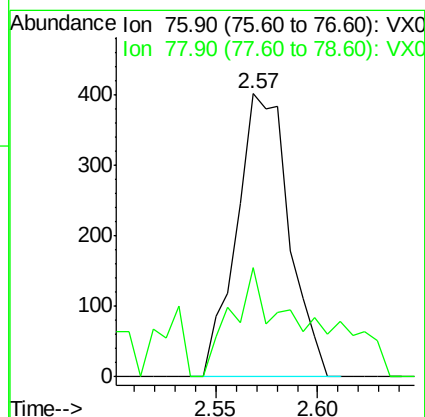
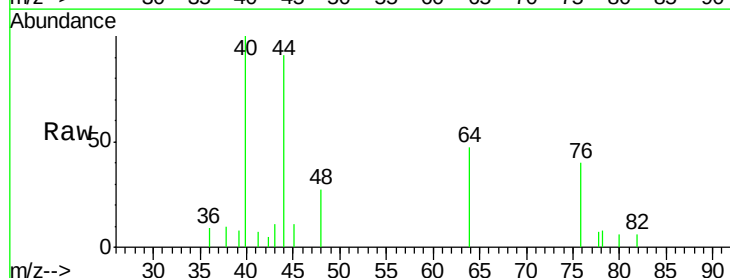
Acq: 09 Mar 2019 01:21

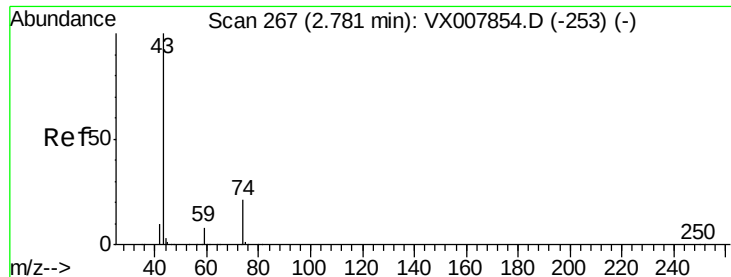
Tgt Ion: 76 Resp: 719

Ion Ratio Lower Upper

76 100

78 38.6 7.2 10.8#





#18

Methyl Acetate

Concen: 0.652 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

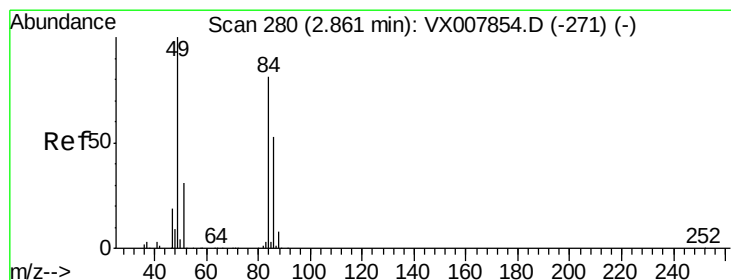
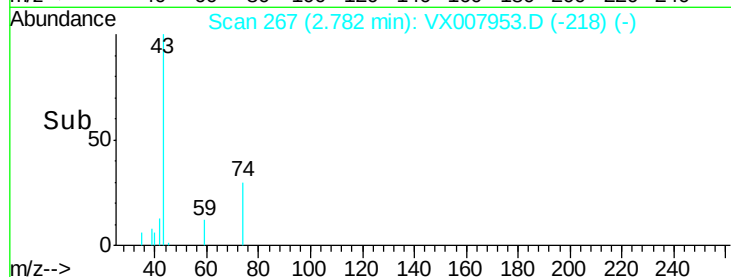
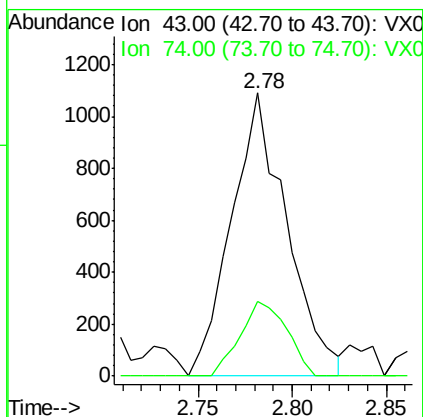
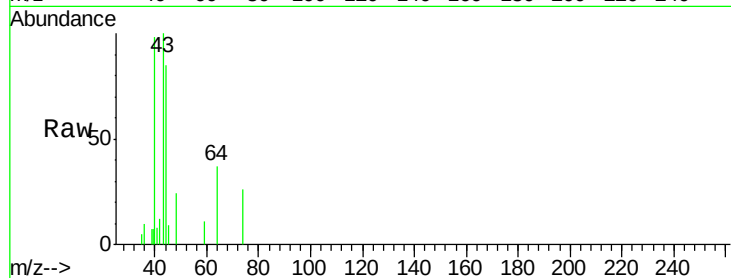
RE117D1-20190305

Tot Ion: 43 Resp: 2219

Ion Ratio Lower Upper

43 100

74 22.3 17.8 26.6



#20

Methylene Chloride

Concen: 0.401 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Tgt Ion: 84 Resp: 1023

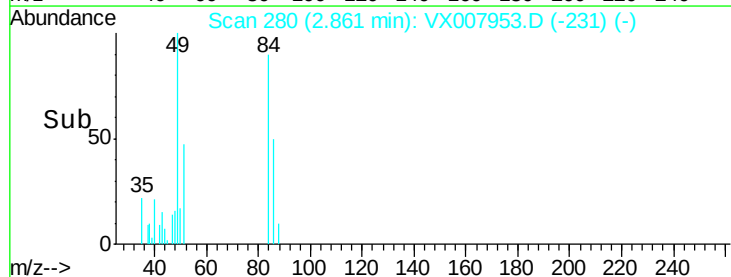
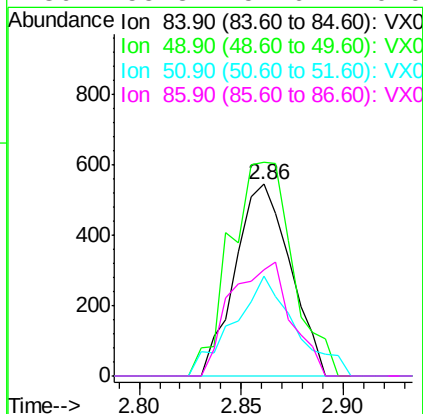
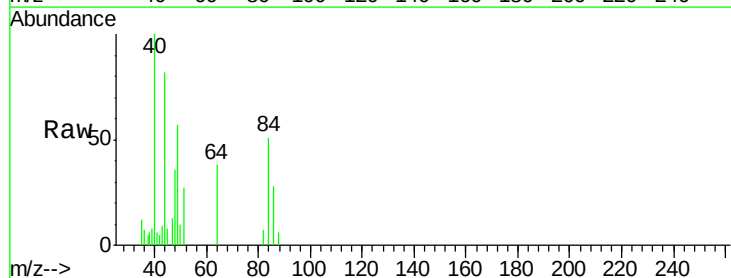
Ion Ratio Lower Upper

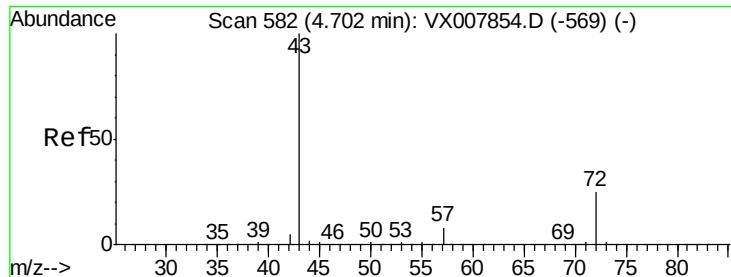
84 100

49 111.4 99.3 148.9

51 51.8 31.3 46.9#

86 55.3 52.6 79.0





#25

2-Butanone

Concen: 0.450 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

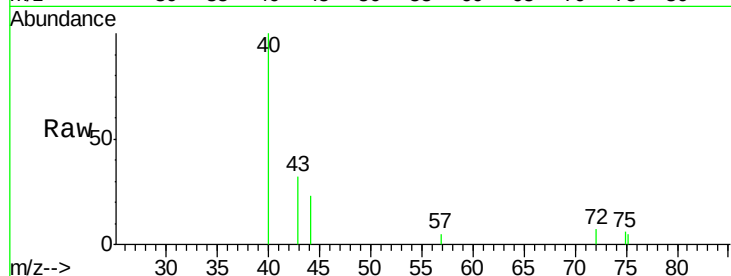
RE117D1-20190305

Tot Ion: 43 Resp: 1020

Ion Ratio Lower Upper

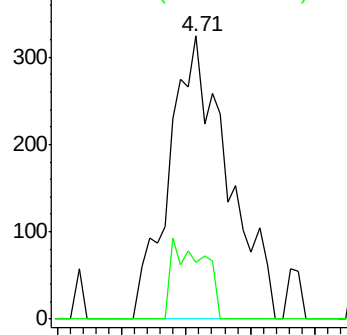
43 100

72 20.1 19.9 29.9

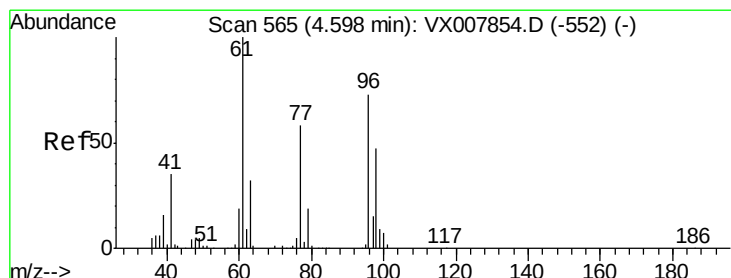
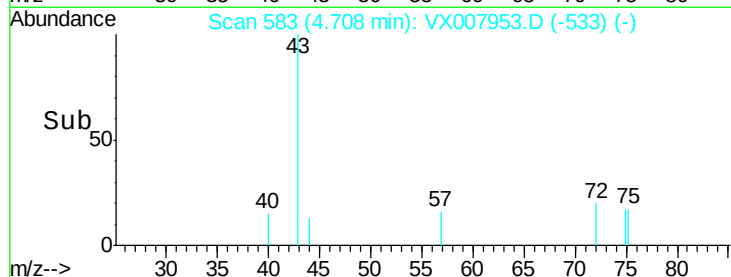


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.370 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

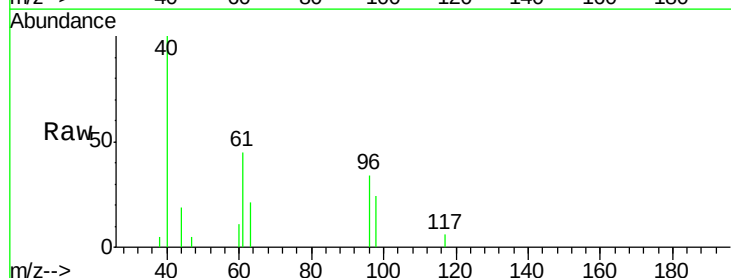
Tgt Ion: 96 Resp: 1039

Ion Ratio Lower Upper

96 100

61 145.2 0.0 288.0

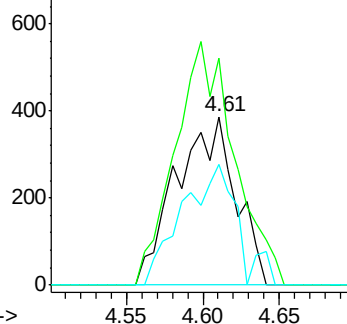
98 67.3 0.0 129.0



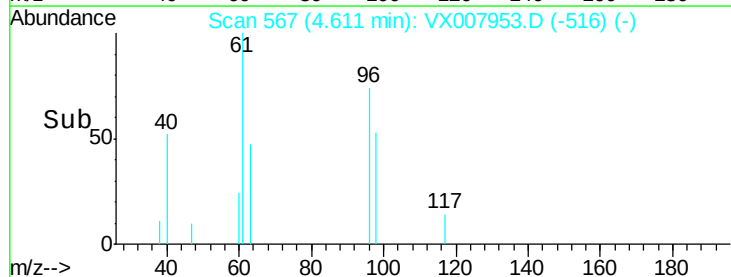
Abundance Ion 95.90 (95.60 to 96.60): VX0

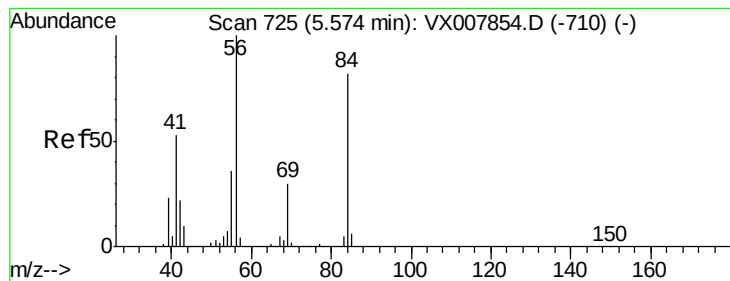
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->





#31

Cyclohexane

Concen: 0.973 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

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RE117D1-20190305

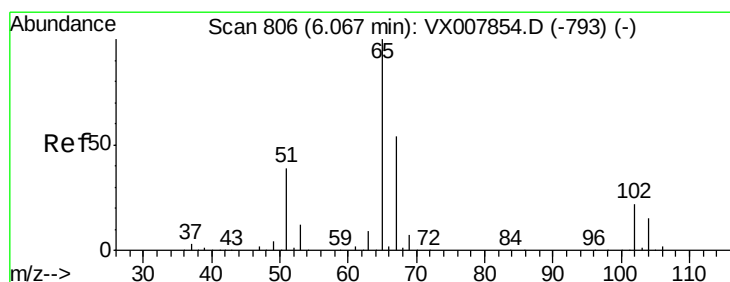
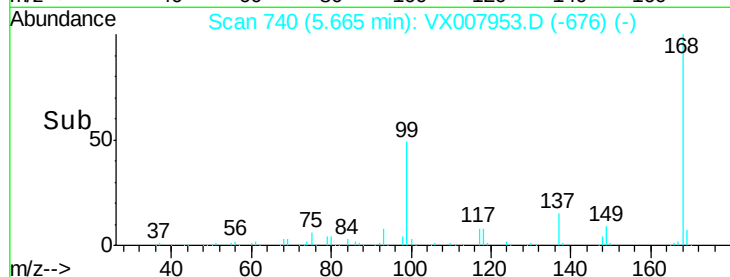
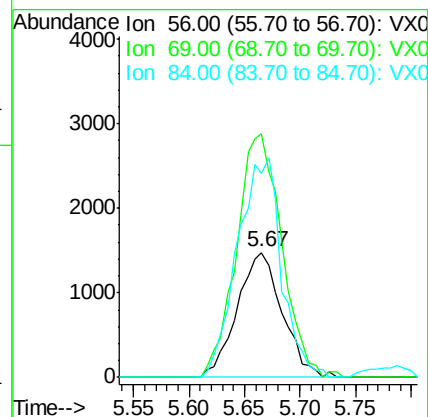
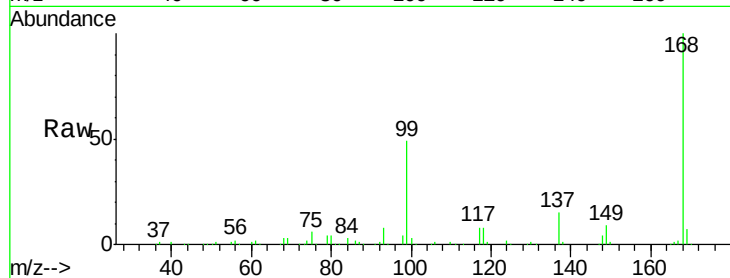
Tot Ion: 56 Resp: 4139

Ion Ratio Lower Upper

56 100

69 195.0 24.0 36.0#

84 162.9 65.3 97.9#



#33

1,2-Dichloroethane-d4

Concen: 52.245 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007953.D

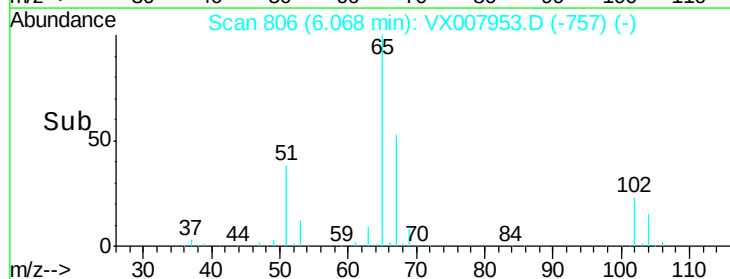
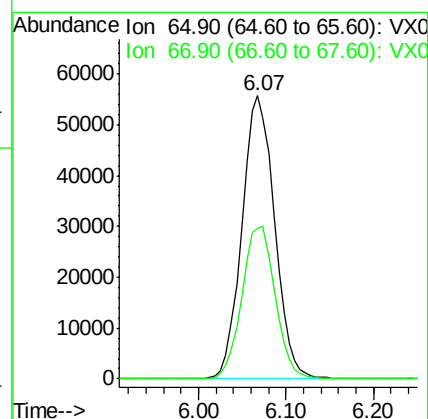
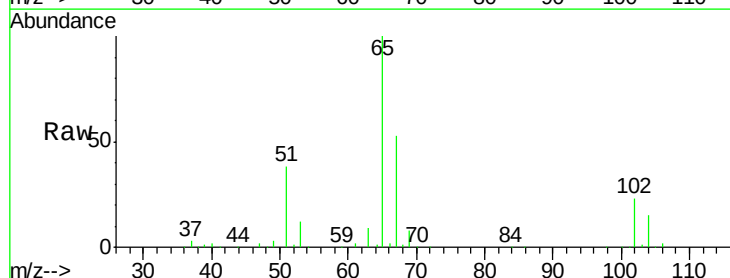
Acq: 09 Mar 2019 01:21

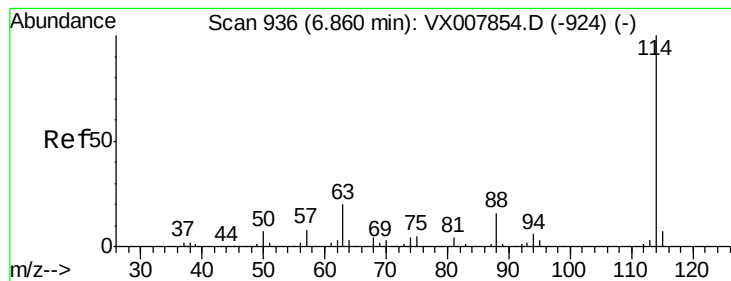
Tgt Ion: 65 Resp: 144661

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20190305

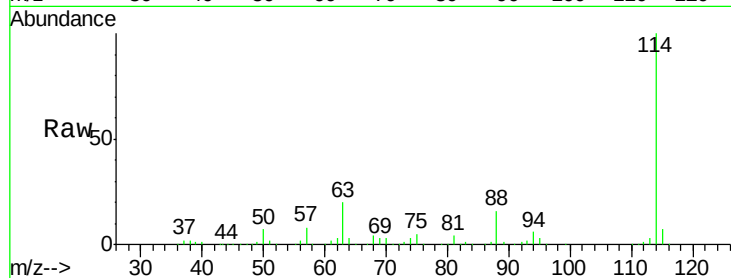
Tot Ion:114 Resp: 409953

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.8

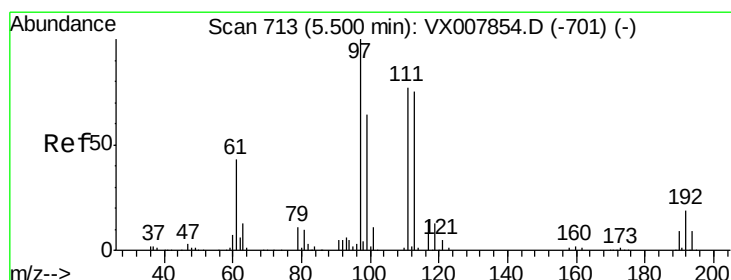
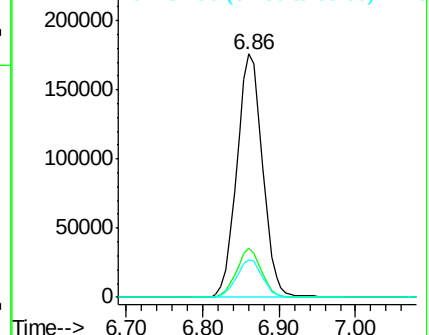
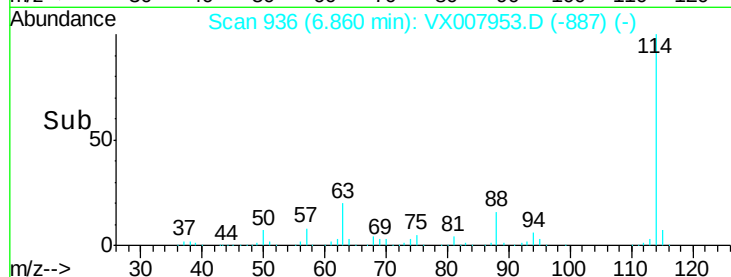
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.839 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

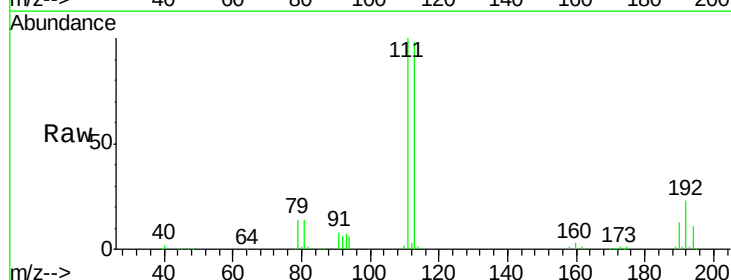
Tgt Ion:113 Resp: 133317

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

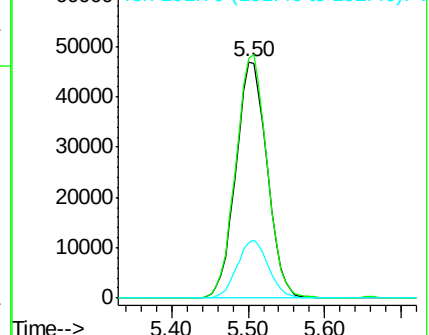
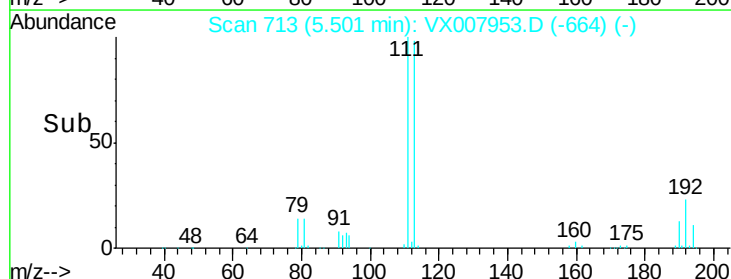
192 24.5 19.4 29.0

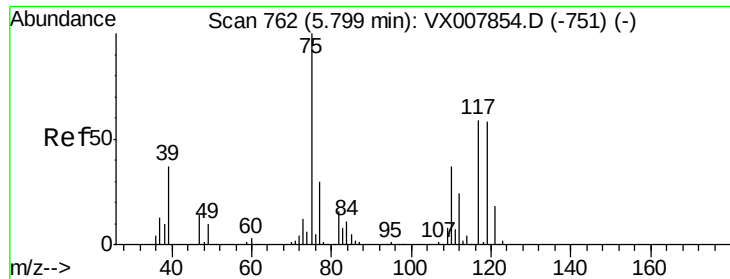


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.476 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20190305

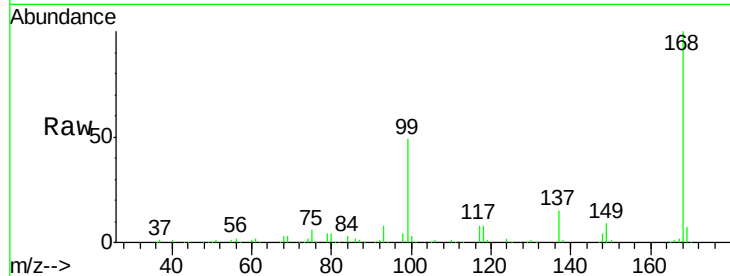
Tot Ion: 75 Resp: 16615

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.0#

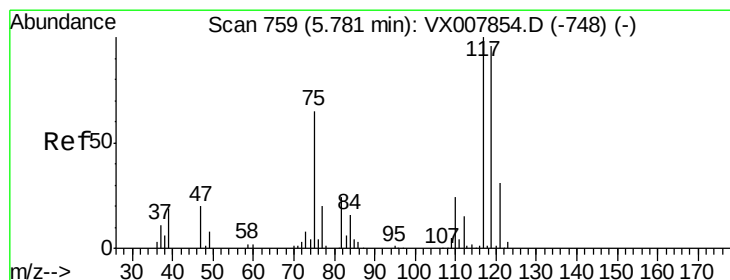
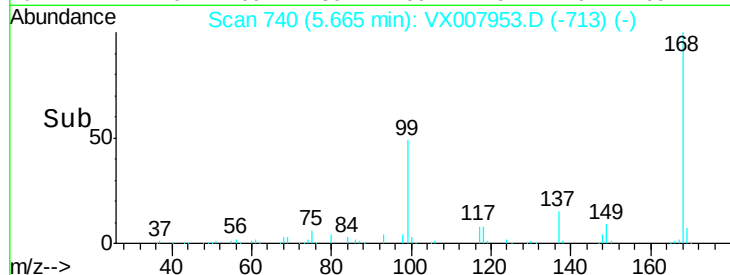
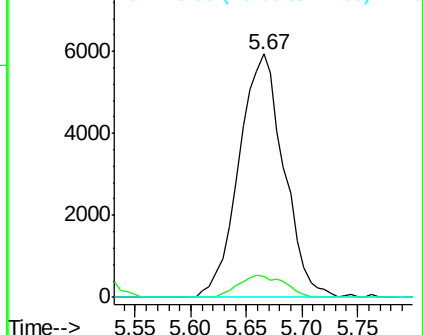
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 0.662 ug/l

RT: 5.78 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

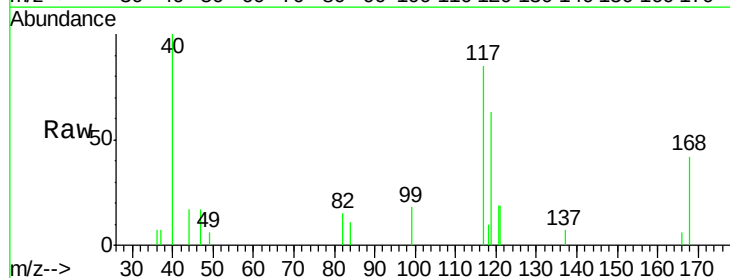
Tgt Ion: 117 Resp: 2334

Ion Ratio Lower Upper

117 100

119 73.7 76.2 114.2#

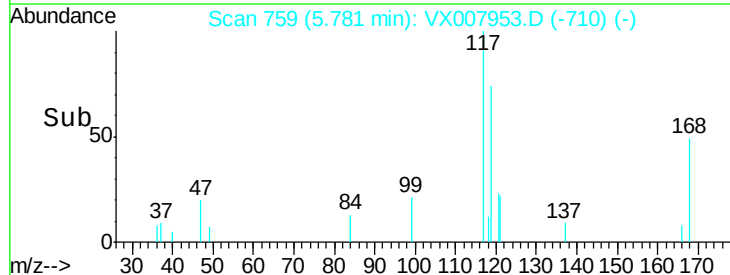
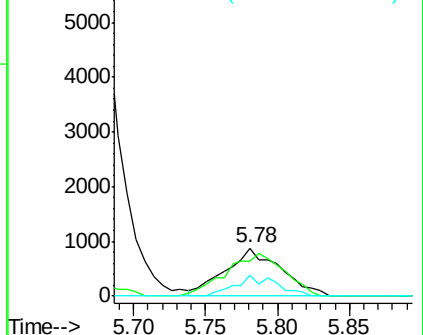
121 44.3 24.6 36.8#

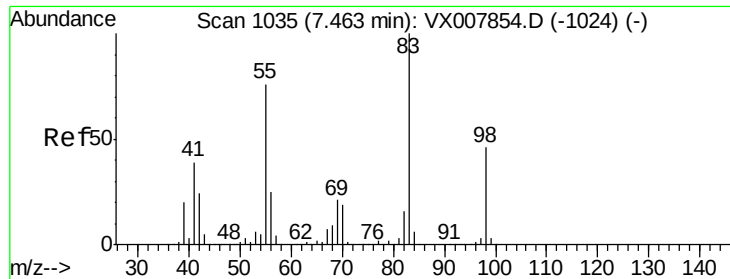


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

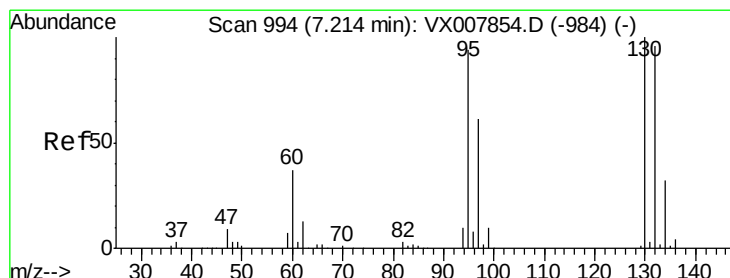
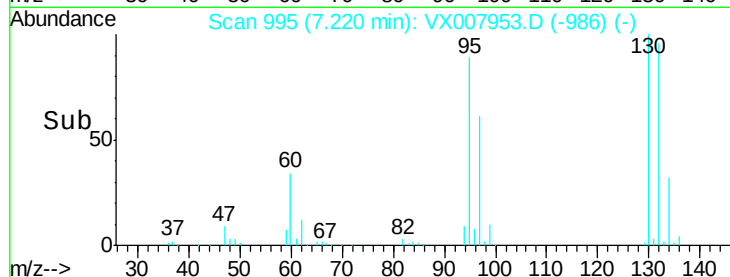
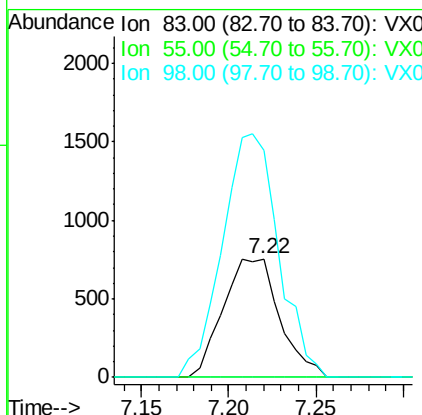
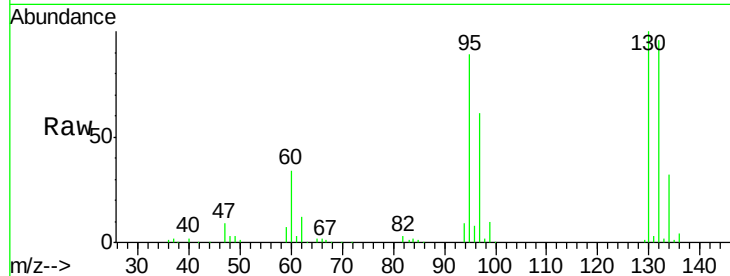




#39
Methylvlcyclohexane
Concen: 0.377 ug/l
RT: 7.22 min Scan# 995
Delta R.T. -0.24 min
Lab File: VX007953.D
Acq: 09 Mar 2019 01:21

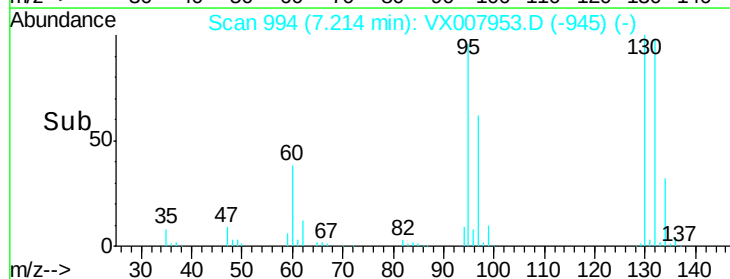
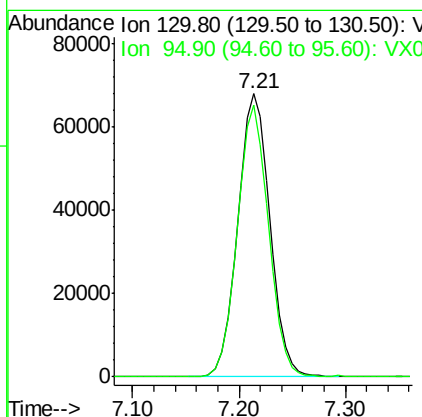
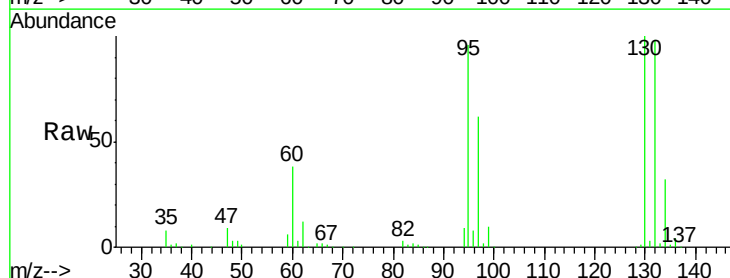
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20190305

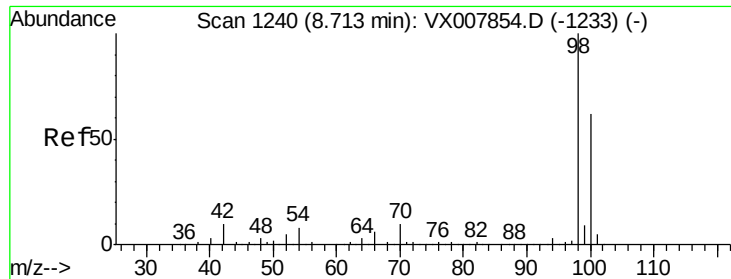
Tot Ion: 83 Resp: 1697
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 191.1 36.5 54.7#



#44
Trichloroethene
Concen: 47.396 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX007953.D
Acq: 09 Mar 2019 01:21

Tgt Ion:130 Resp: 144341
Ion Ratio Lower Upper
130 100
95 96.1 0.0 188.0





#50

Toluene-d8

Concen: 52.003 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

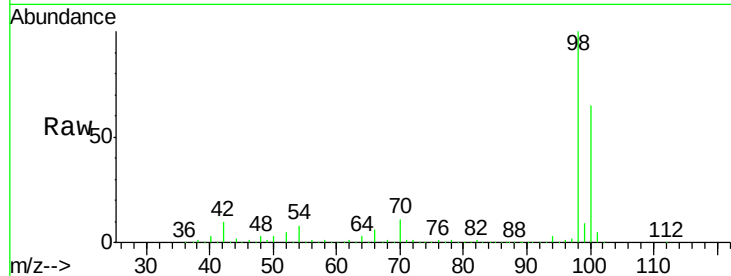
RE117D1-20190305

Tot Ion: 98 Resp: 500822

Ion Ratio Lower Upper

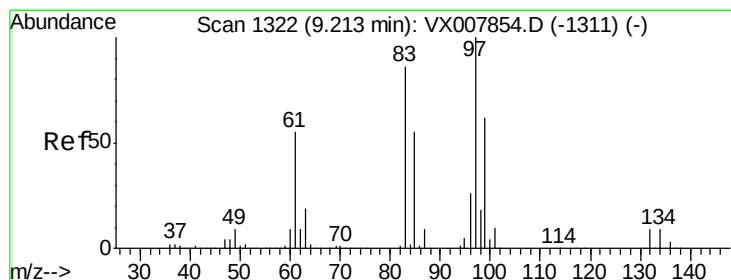
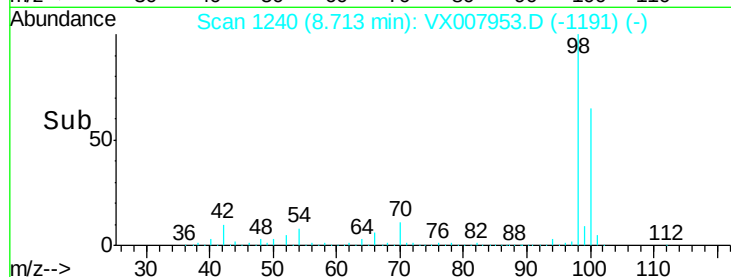
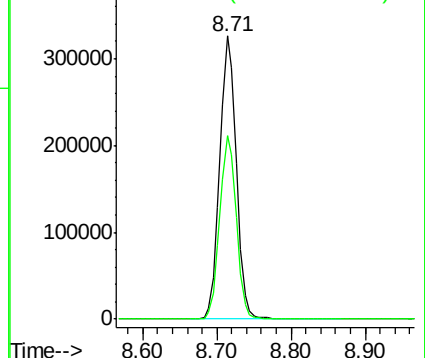
98 100

100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.260 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Tgt Ion: 97 Resp: 710

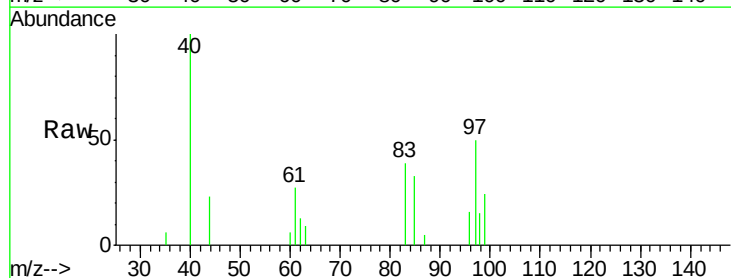
Ion Ratio Lower Upper

97 100

83 77.3 69.1 103.7

85 65.7 44.3 66.5

99 48.6 49.8 74.8#

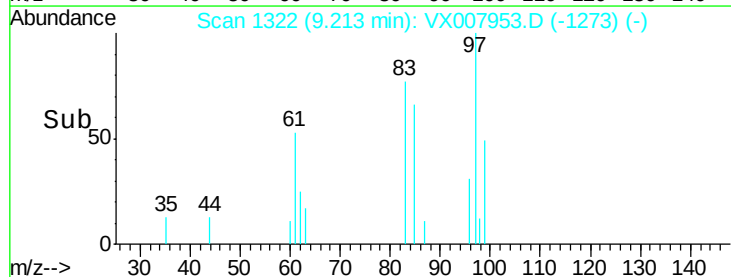
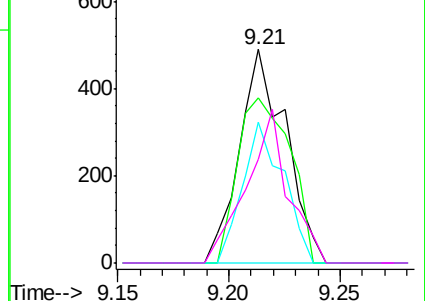


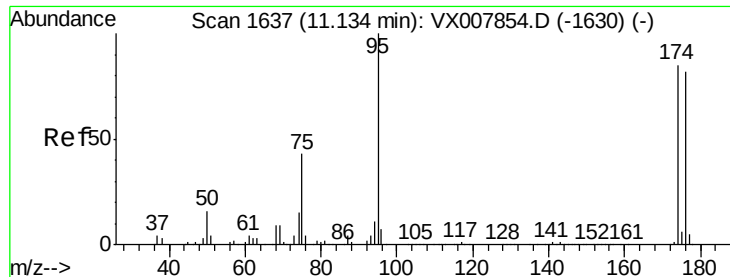
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0





#62

4-Bromofluorobenzene

Concen: 54.514 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20190305

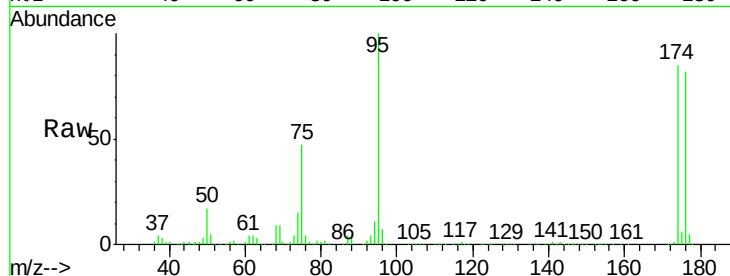
Tot Ion: 95 Resp: 184069

Ion Ratio Lower Upper

95 100

174 91.8 0.0 182.8

176 89.6 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX007854.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007854.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007854.D (-1630) (-)

11.13

150000

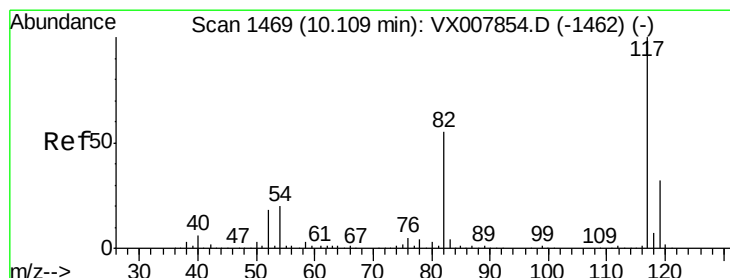
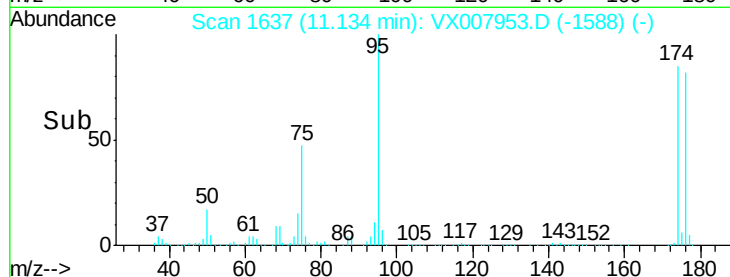
100000

50000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

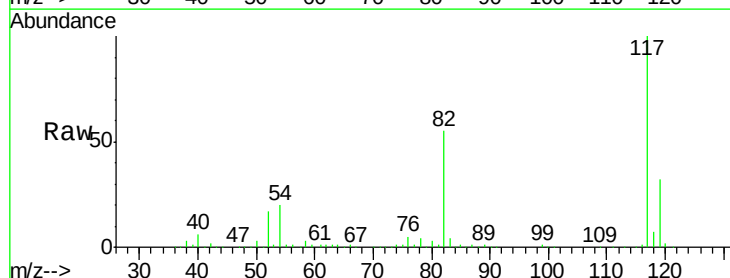
Tgt Ion: 117 Resp: 391799

Ion Ratio Lower Upper

117 100

82 54.6 44.3 66.5

119 31.9 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX007854.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX007854.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX007854.D (-1462) (-)

10.11

300000

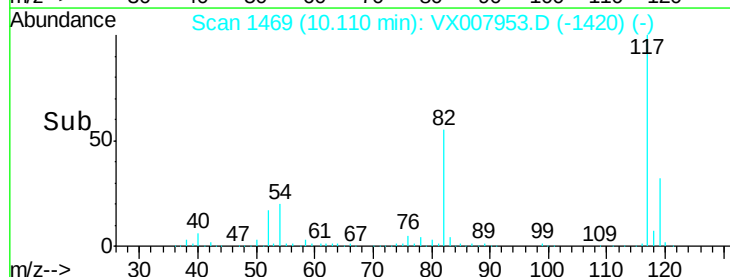
200000

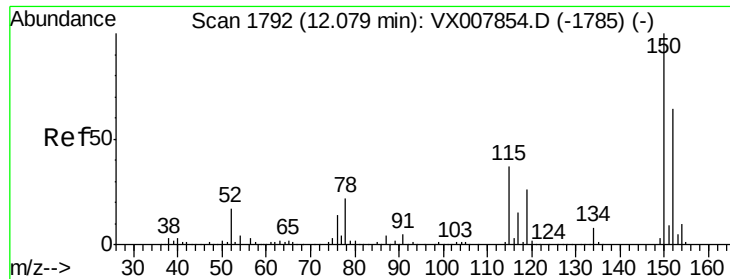
100000

0

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20190305

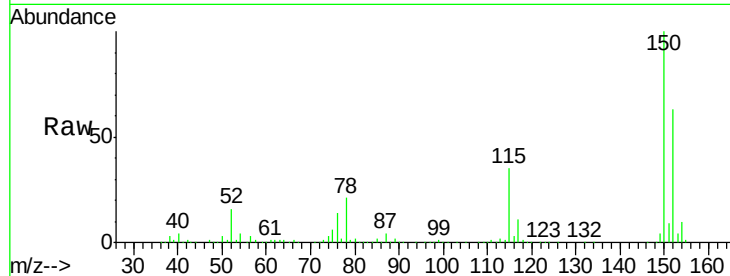
Tot Ion:152 Resp: 188522

Ion Ratio Lower Upper

152 100

115 55.2 38.6 115.7

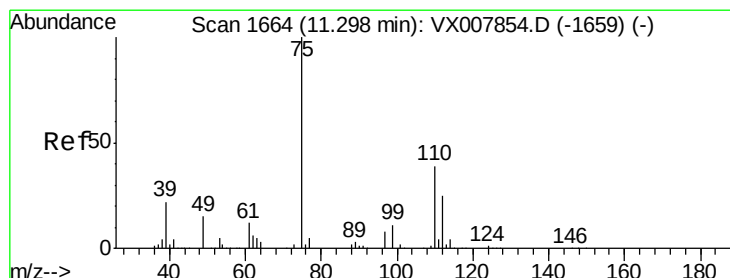
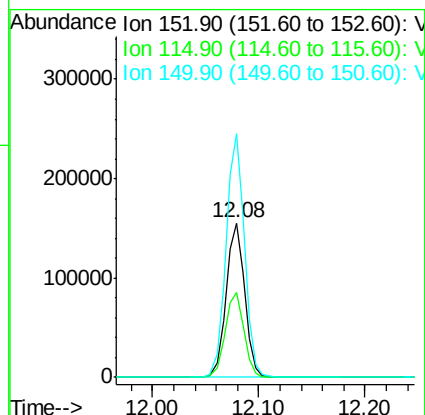
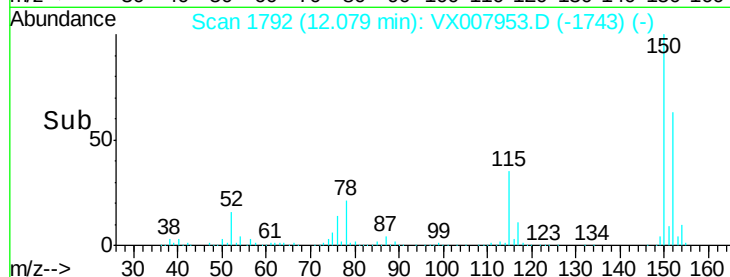
150 156.9 0.0 348.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.596 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007953.D

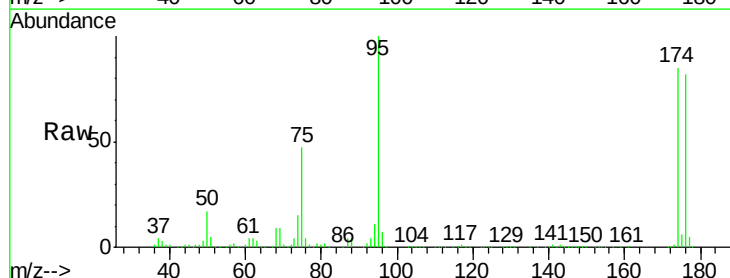
Acq: 09 Mar 2019 01:21

Tgt Ion: 75 Resp: 85434

Ion Ratio Lower Upper

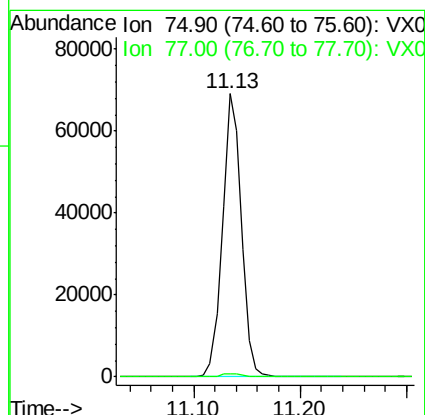
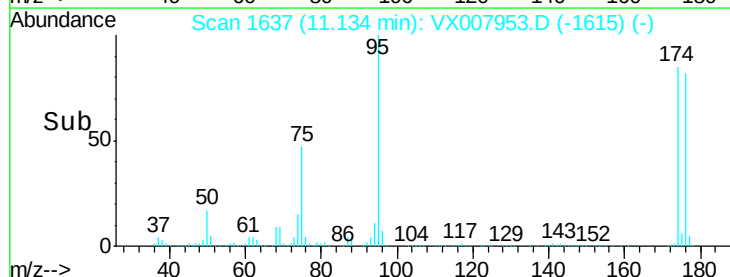
75 100

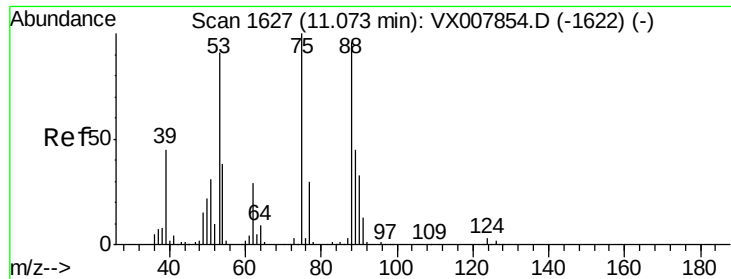
77 1.2 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.032 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007953.D

Acq: 09 Mar 2019 01:21

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20190305

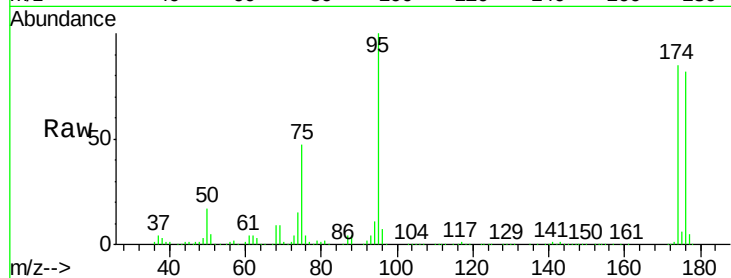
Tot Ion: 75 Resp: 85434

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

