

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013210.D
 Acq On : 24 Oct 2019 14:42
 Operator : JC/SP
 Sample : K5532-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0673

Quant Time: Oct 25 01:20:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	80648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	117509	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	115920	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	73769	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	87472	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	5.49	113	67107	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	8.71	98	243719	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.14	95	88020	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

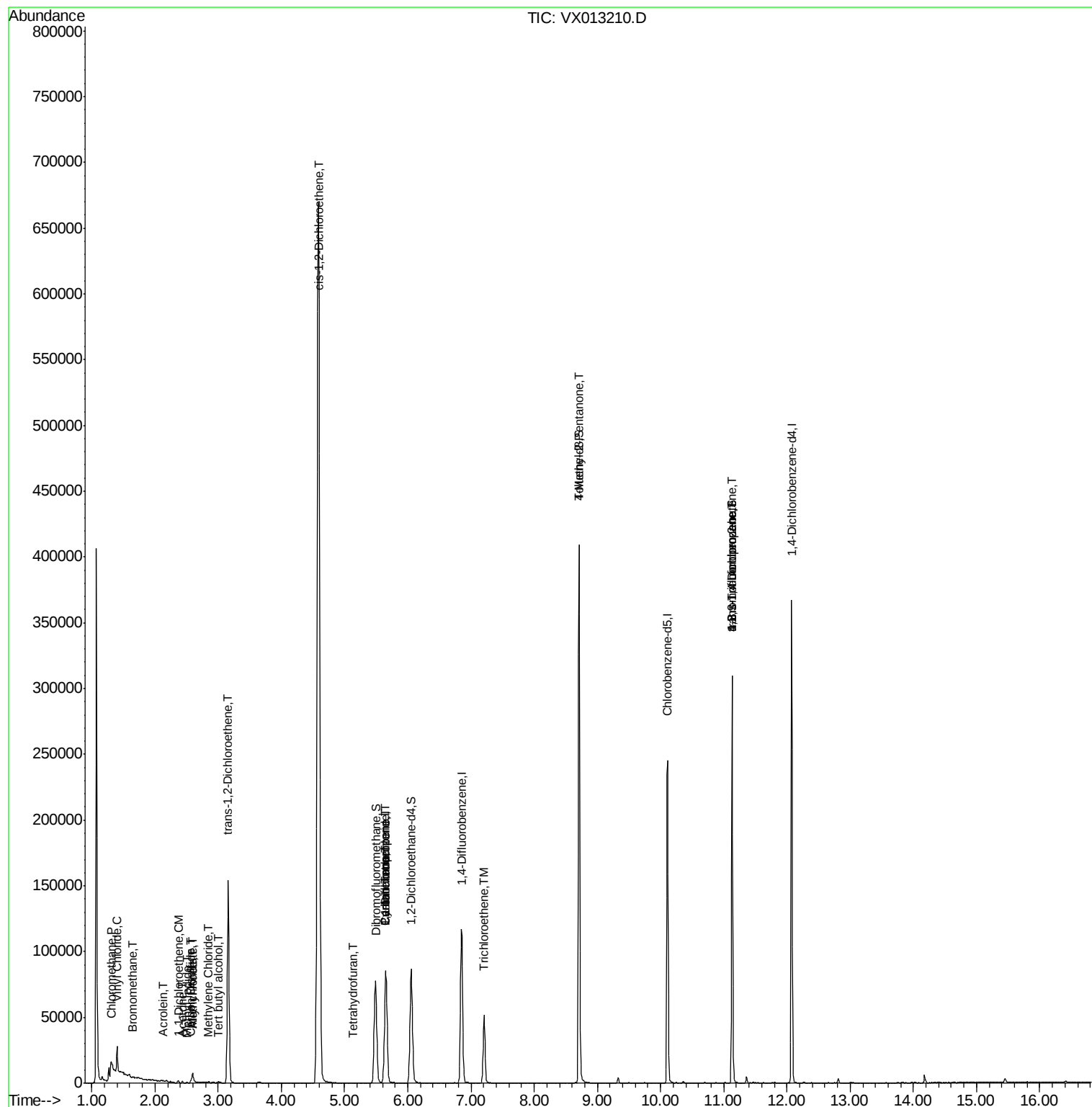
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	588	1.407	ug/l #	75
4) Vinyl Chloride	1.40	62	10261	7.007	ug/l	90
5) Bromomethane	1.65	94	200	0.258	ug/l #	53
6) Chloroethane	1.83	64	487	Below Cal	#	69
10) Methyl Iodide	2.50	142	71	3.577	ug/l #	40
11) Tert butyl alcohol	3.01	59	800	1.129	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	709	0.516	ug/l #	78
13) Acrolein	2.12	56	50	0.253	ug/l #	63
14) Allyl chloride	2.59	41	728	0.337	ug/l #	56
16) Acetone	2.44	43	1194	1.502	ug/l #	81
17) Carbon Disulfide	2.56	76	2114	0.572	ug/l	96
18) Methyl Acetate	2.59	43	1806	1.989	ug/l #	49
20) Methylene Chloride	2.84	84	238	0.448	ug/l #	62
21) trans-1,2-Dichloroethene	3.15	96	64435	45.124	ug/l	91
27) cis-1,2-Dichloroethene	4.59	96	443630	263.669	ug/l	88
29) Tetrahydrofuran	5.14	42	139	0.216	ug/l #	28
31) Cyclohexane	5.65	56	1535	0.704	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	5795	2.873	ug/l #	50
38) Carbon Tetrachloride	5.65	117	7906	3.640	ug/l #	13
44) Trichloroethene	7.21	130	20653	12.329	ug/l	95
51) 4-Methyl-2-Pentanone	8.70	43	1013	0.511	ug/l #	1
64) Tetrachloroethene	9.33	164	79	Below Cal	#	60
76) 1,2,3-Trichloropropane	11.14	75	43064	24.221	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	43064	66.558	ug/l #	10

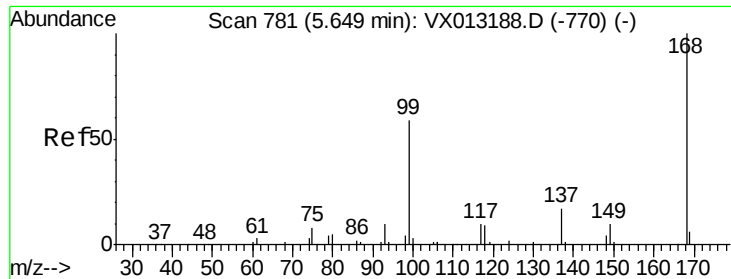
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102519\
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ClientSampleId :
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Quant Time: Oct 25 01:20:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 24 03:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

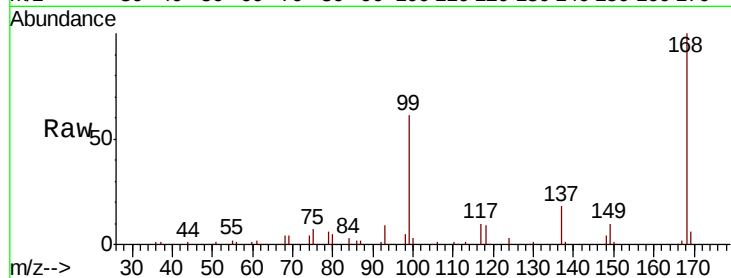
S32-0673

Tot Ion:168 Resp: 80648

Ion Ratio Lower Upper

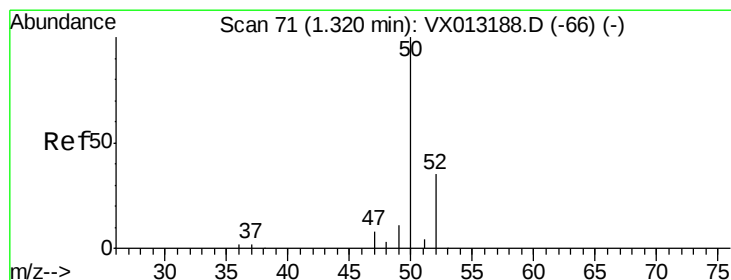
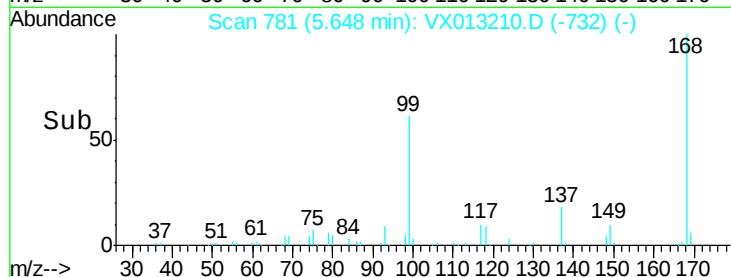
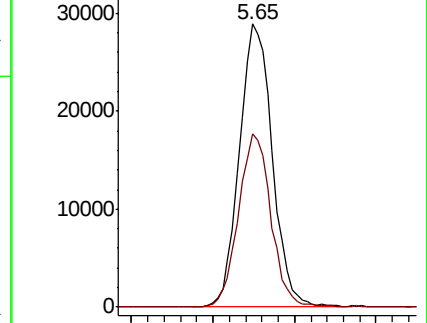
168 100

99 61.4 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 1.407 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013210.D

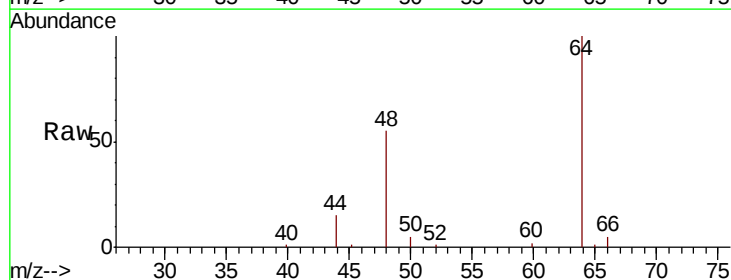
Acq: 24 Oct 2019 14:42

Tgt Ion: 50 Resp: 588

Ion Ratio Lower Upper

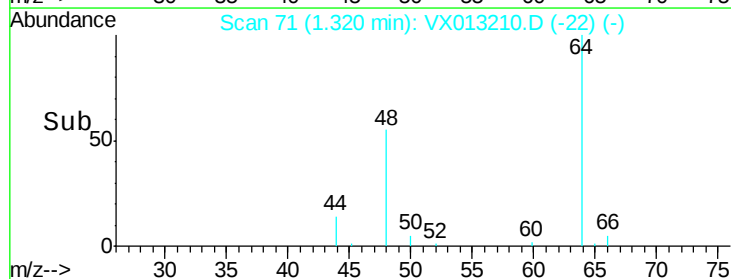
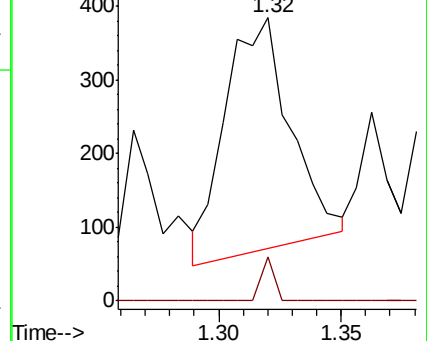
50 100

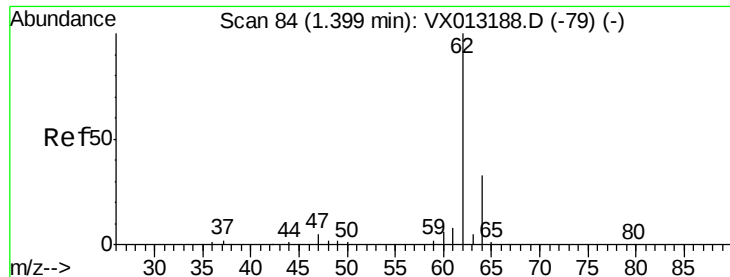
52 20.3 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 7.007 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

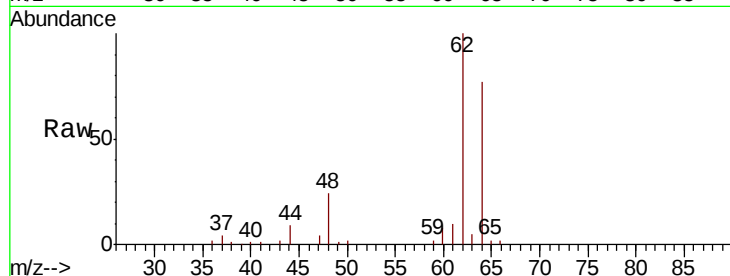
S32-0673

Tot Ion: 62 Resp: 10261

Ion Ratio Lower Upper

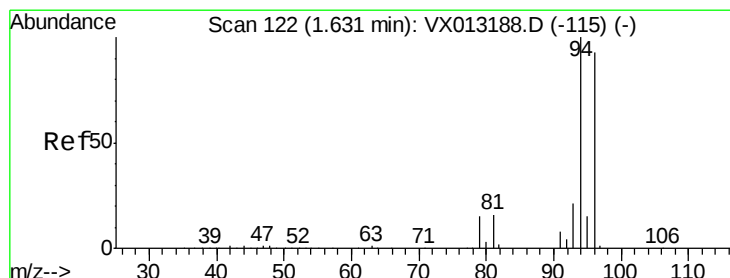
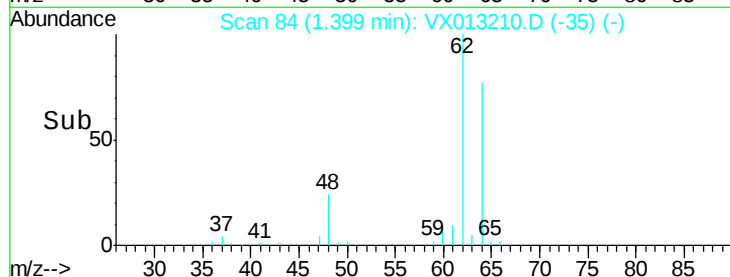
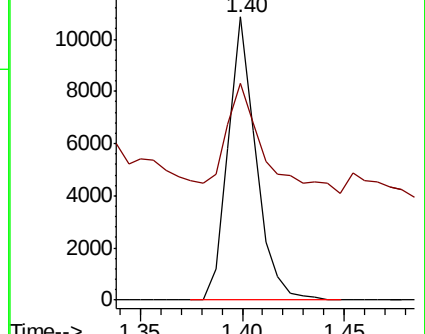
62 100

64 38.7 26.4 39.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.258 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013210.D

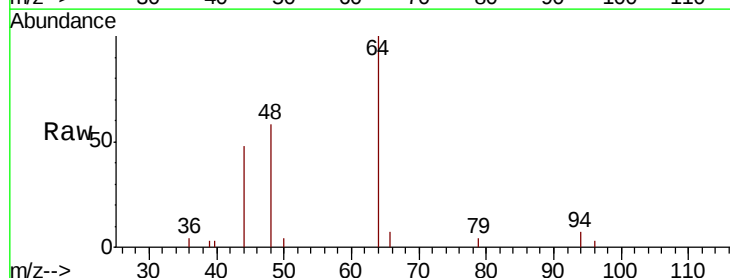
Acq: 24 Oct 2019 14:42

Tgt Ion: 94 Resp: 200

Ion Ratio Lower Upper

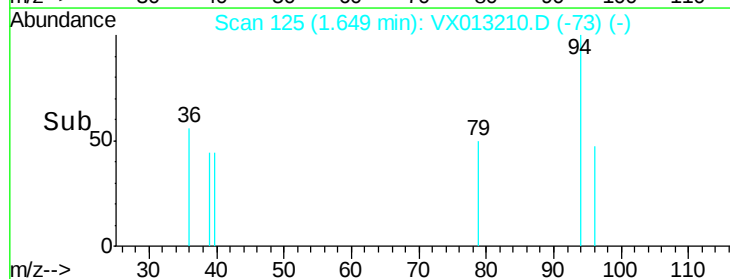
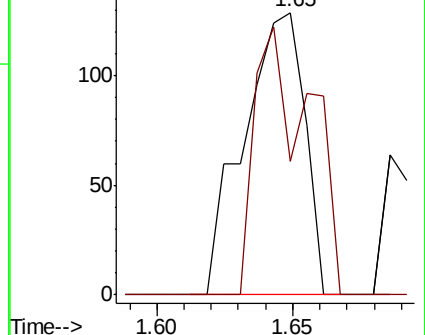
94 100

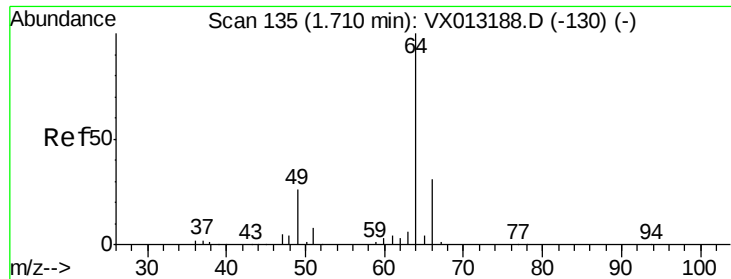
96 47.3 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.83 min Scan# 155

Delta R.T. 0.12 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

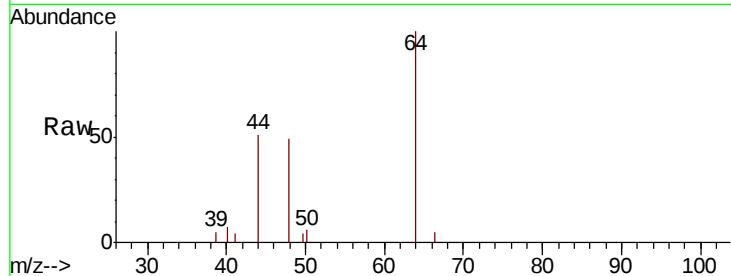
S32-0673

Tot Ion: 64 Resp: 487

Ion Ratio Lower Upper

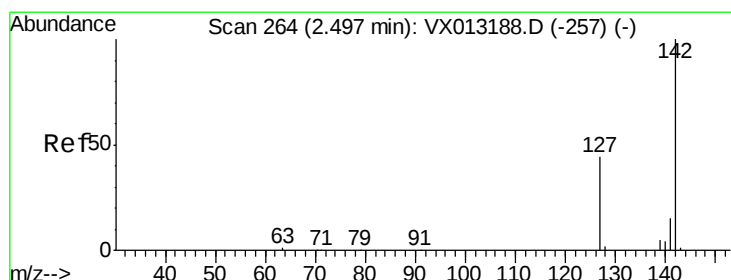
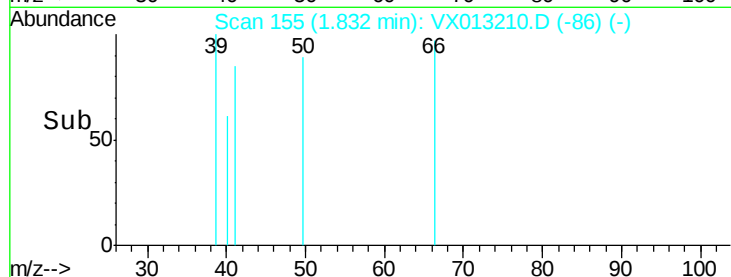
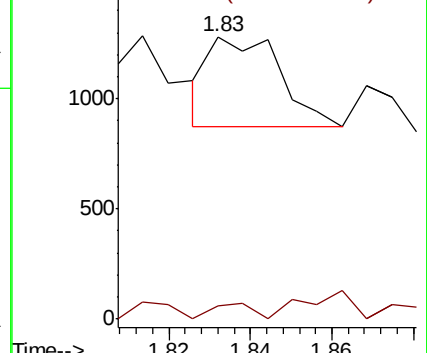
64 100

66 14.5 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 3.577 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

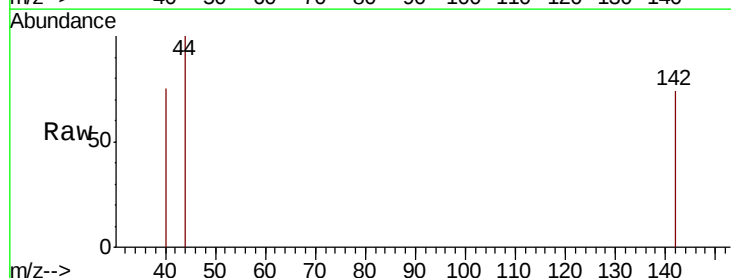
Tgt Ion: 142 Resp: 71

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

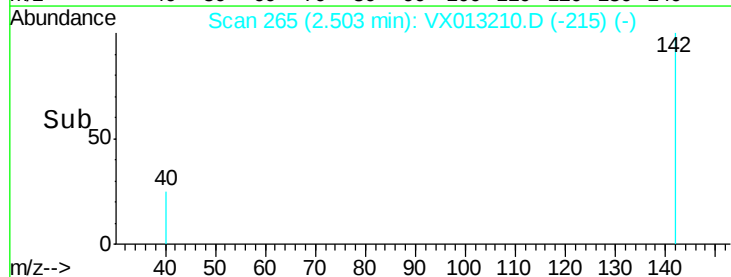
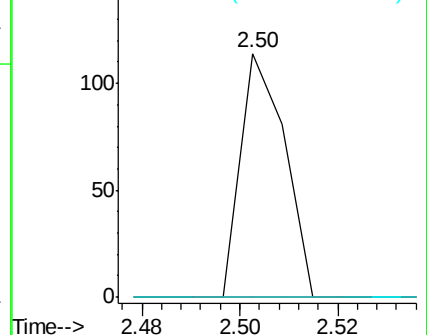
141 0.0 11.6 17.4#

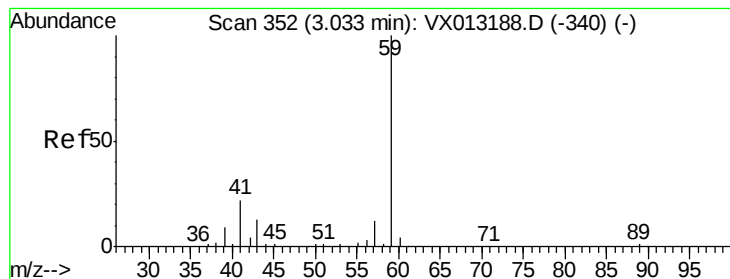


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



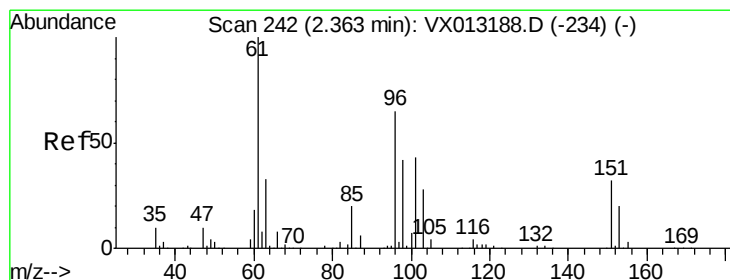
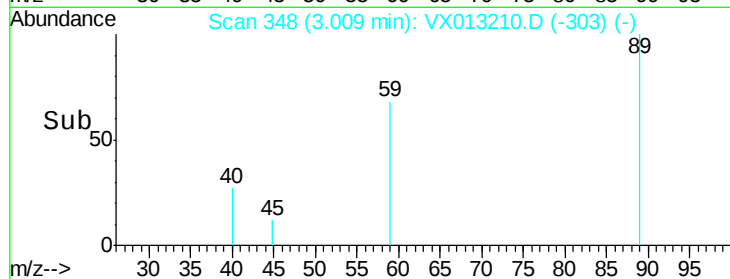
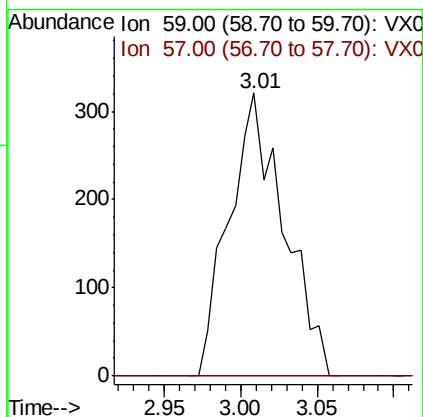
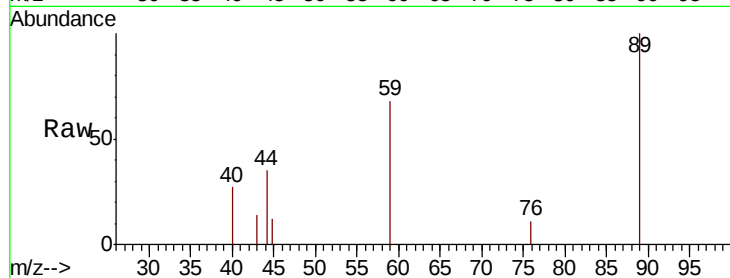


#11

Tert butyl alcohol
 Concen: 1.129 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0673

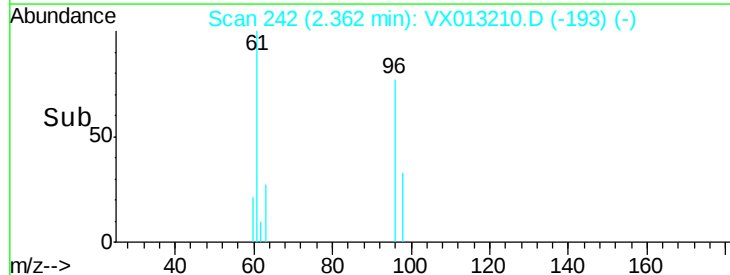
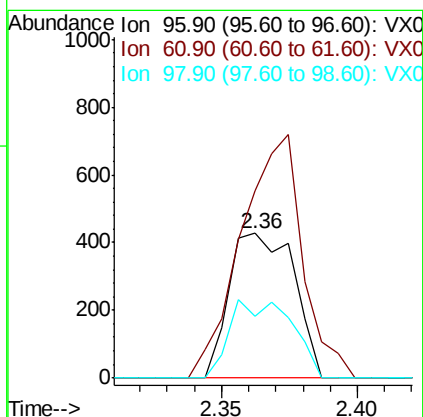
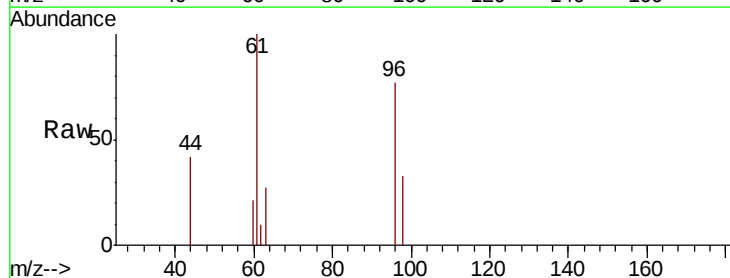
Tot Ion: 59 Resp: 800
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

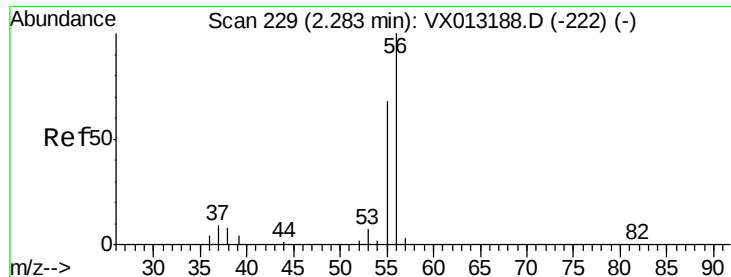


#12

1,1-Dichloroethene
 Concen: 0.516 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. -0.00 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

Tgt Ion: 96 Resp: 709
 Ion Ratio Lower Upper
 96 100
 61 129.4 123.8 185.8
 98 43.0 51.6 77.4#





#13

Acrolein

Concen: 0.253 ug/l

RT: 2.12 min Scan# 202

Delta R.T. -0.16 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

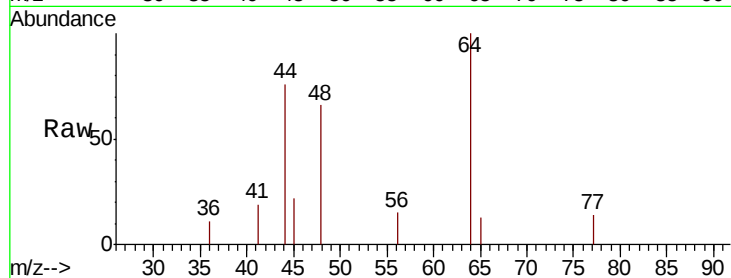
S32-0673

Tot Ion: 56 Resp: 50

Ion Ratio Lower Upper

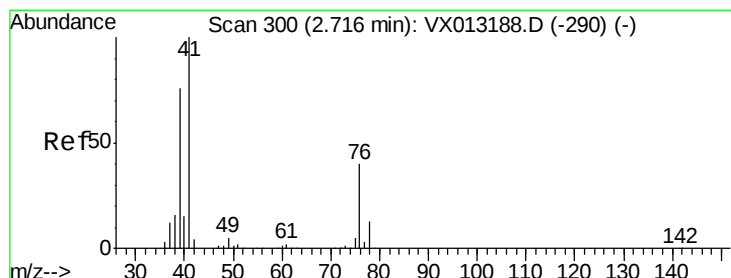
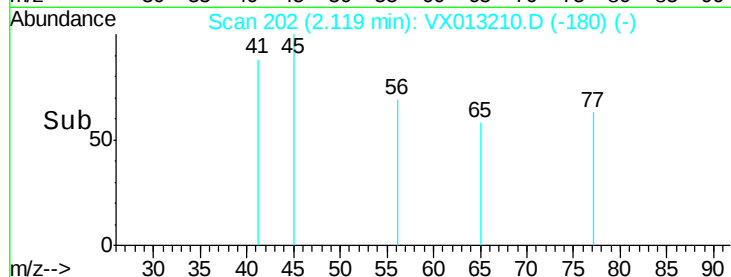
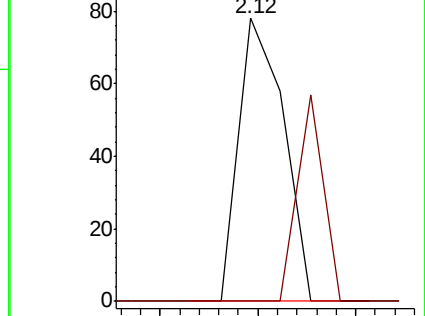
56 100

55 42.0 58.9 88.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.337 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

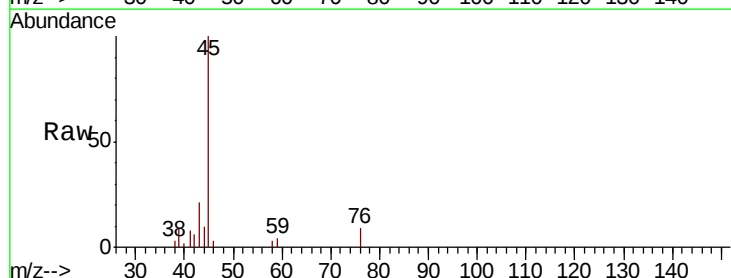
Tgt Ion: 41 Resp: 728

Ion Ratio Lower Upper

41 100

39 95.3 54.6 81.8#

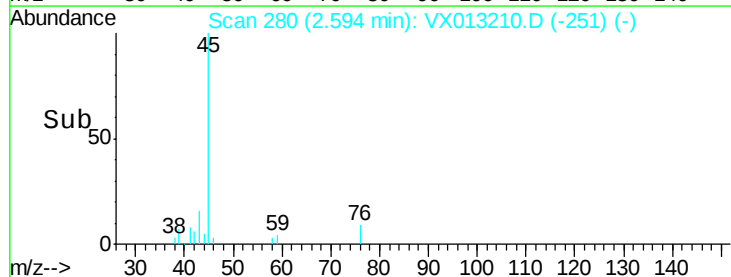
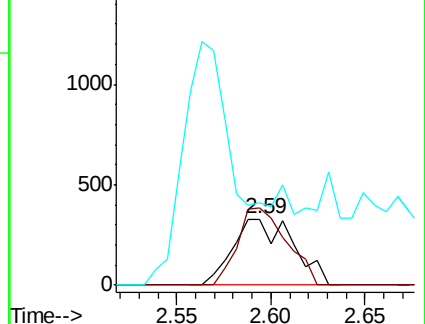
76 0.0 29.8 44.6#

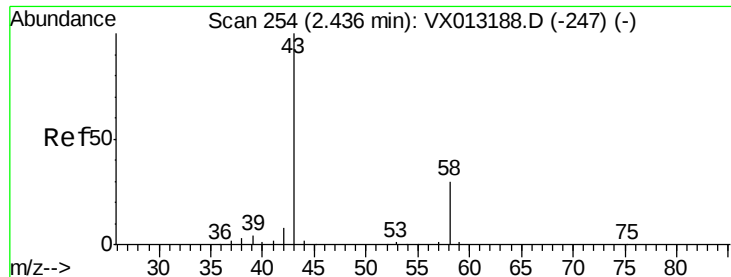


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 1.502 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

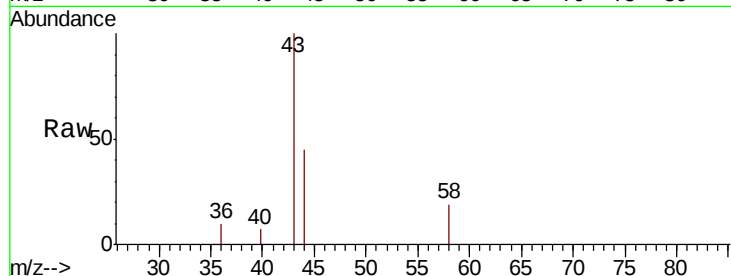
S32-0673

Tot Ion: 43 Resp: 1194

Ion Ratio Lower Upper

43 100

58 19.4 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

800

600

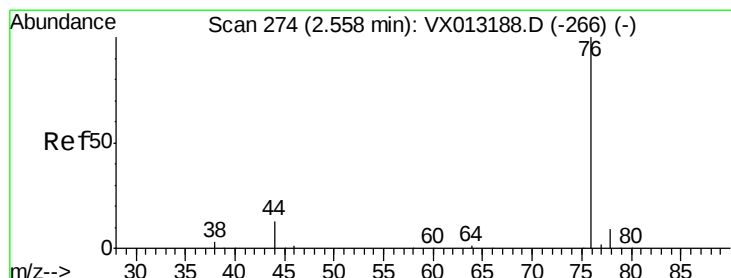
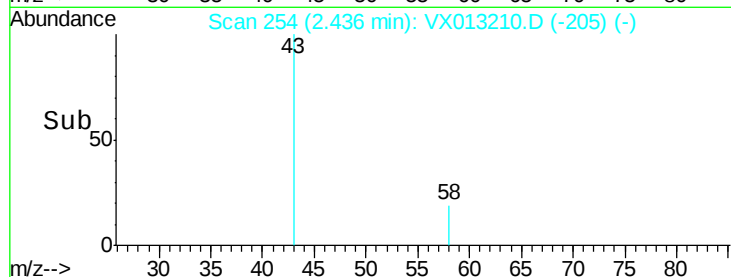
400

200

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.572 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013210.D

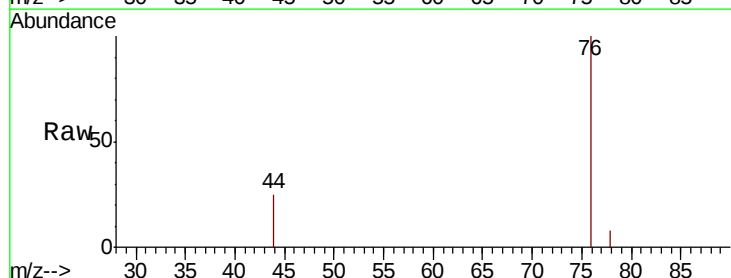
Acq: 24 Oct 2019 14:42

Tgt Ion: 76 Resp: 2114

Ion Ratio Lower Upper

76 100

78 7.7 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

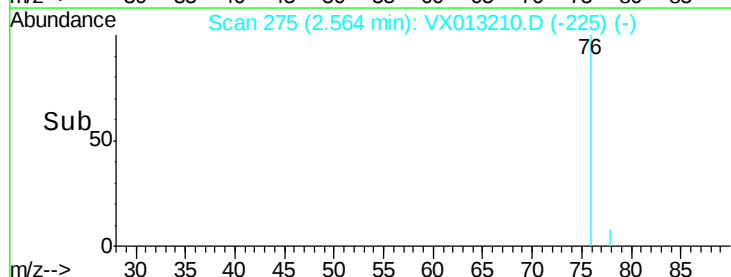
1000

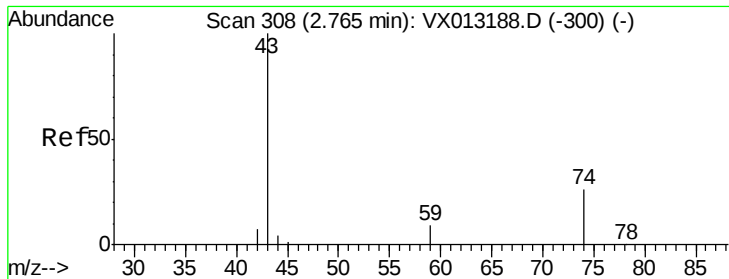
500

0

2.50 2.55 2.60

Time-->

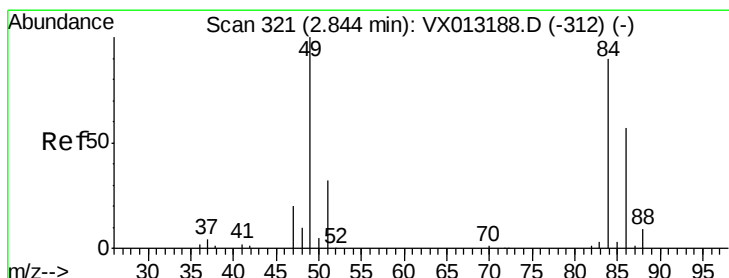
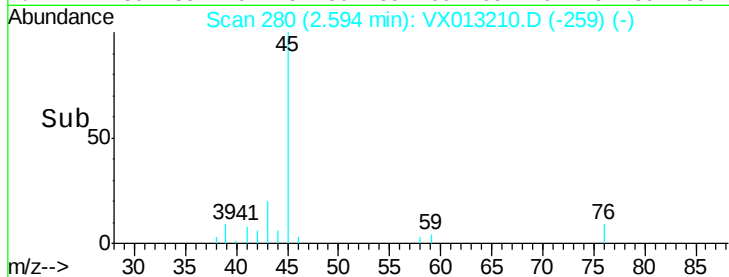
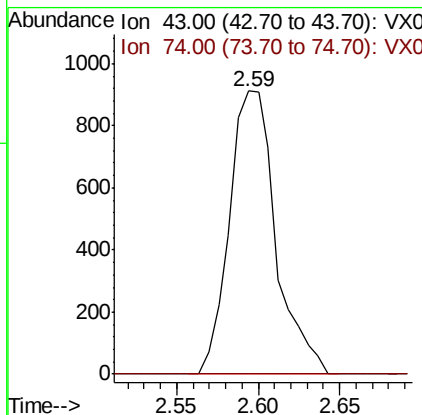
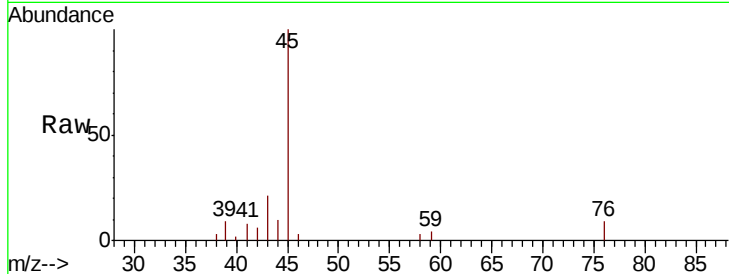




#18
Methvl Acetate
Concen: 1.989 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

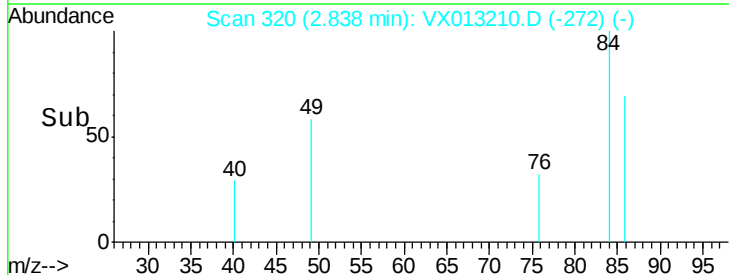
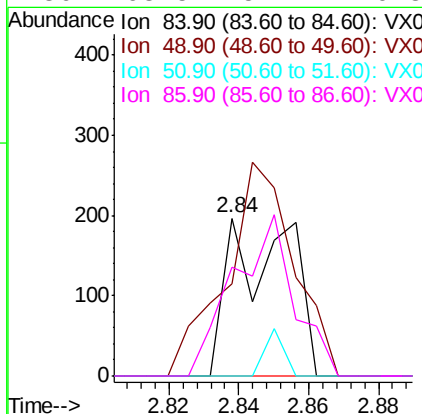
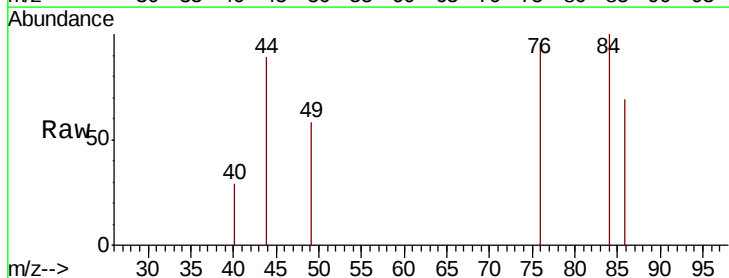
Instrument :
MSVOA_X
ClientSampled :
S32-0673

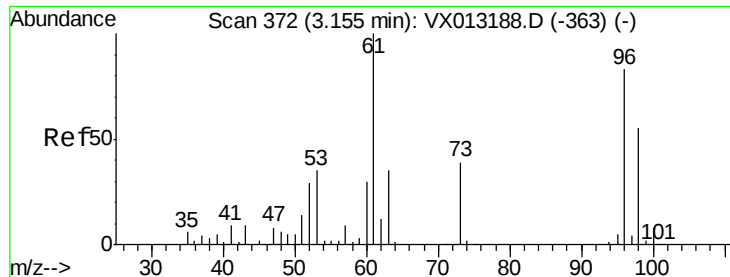
Tot Ion: 43 Resp: 1806
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 0.448 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

Tgt Ion: 84 Resp: 238
Ion Ratio Lower Upper
84 100
49 58.4 89.2 133.8#
51 0.0 28.8 43.2#
86 68.5 51.2 76.8

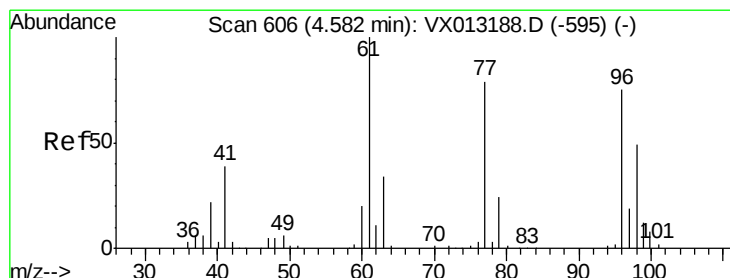
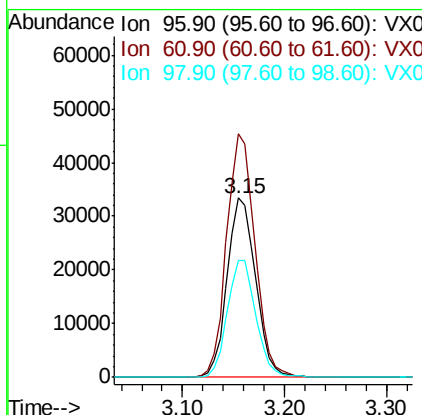
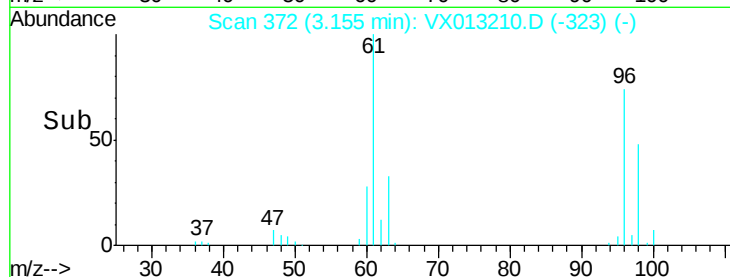
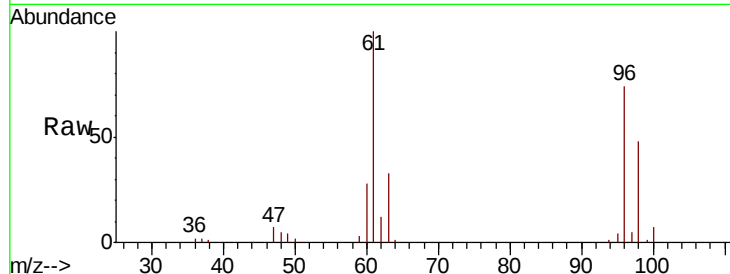




#21
 trans-1,2-Dichloroethene
 Concen: 45.124 ug/l
 RT: 3.15 min Scan# 372
 Delta R.T. -0.00 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

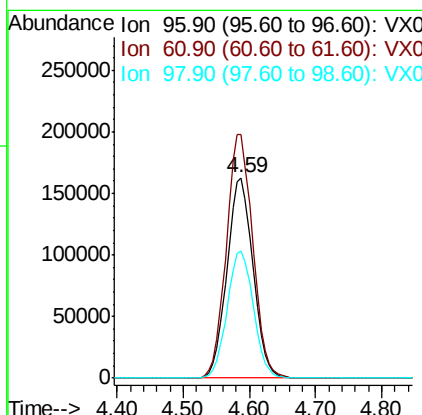
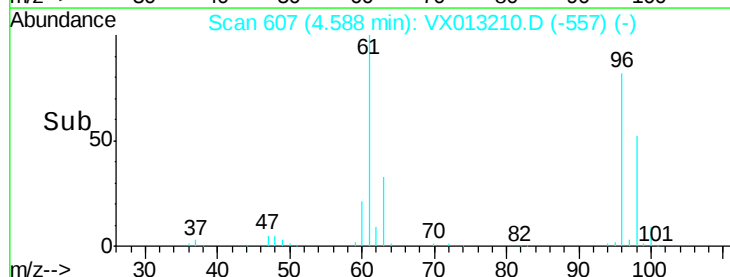
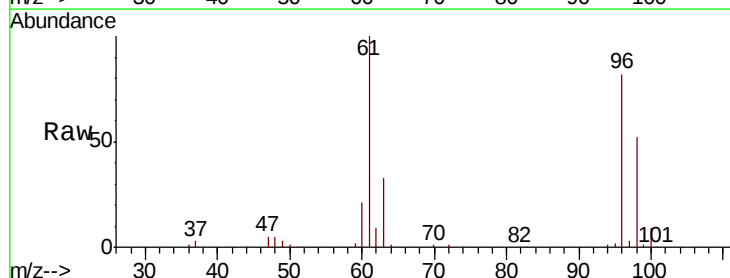
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0673

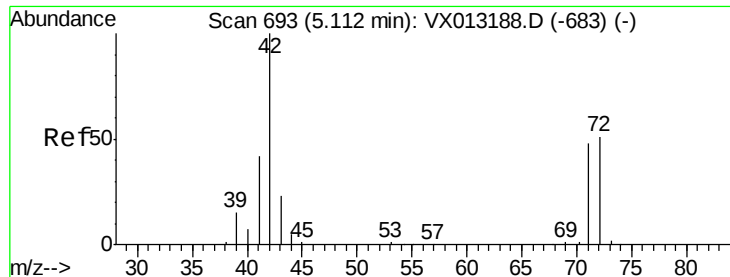
Tot Ion: 96 Resp: 64435
 Ion Ratio Lower Upper
 96 100
 61 135.9 96.9 145.3
 98 65.1 53.0 79.4



#27
 cis-1,2-Dichloroethene
 Concen: 263.669 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

Tgt Ion: 96 Resp: 443630
 Ion Ratio Lower Upper
 96 100
 61 123.4 0.0 290.4
 98 64.2 0.0 130.4

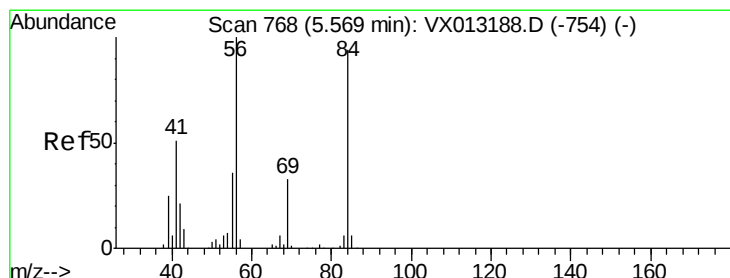
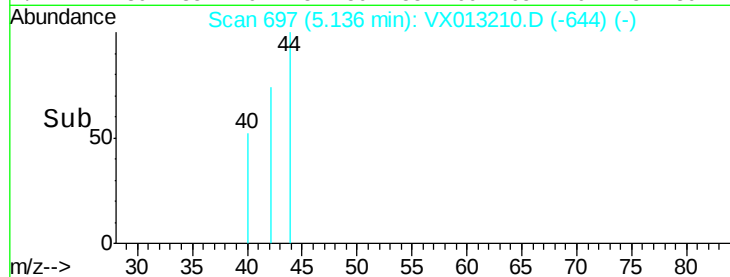
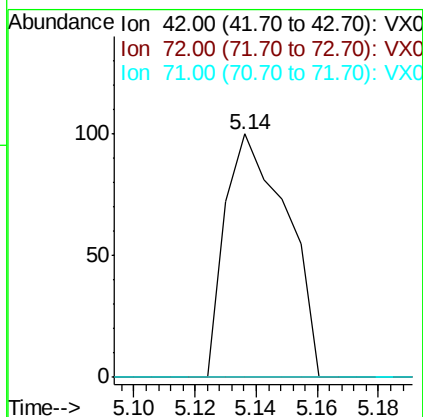
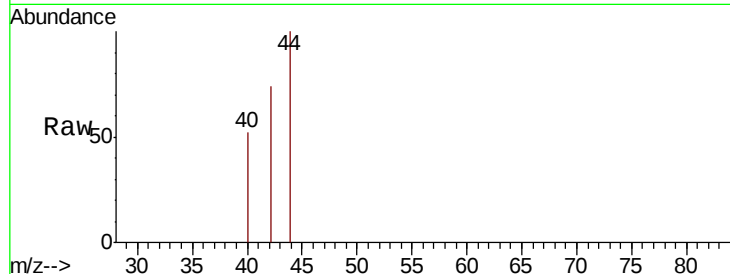




#29
Tetrahydrofuran
Concen: 0.216 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

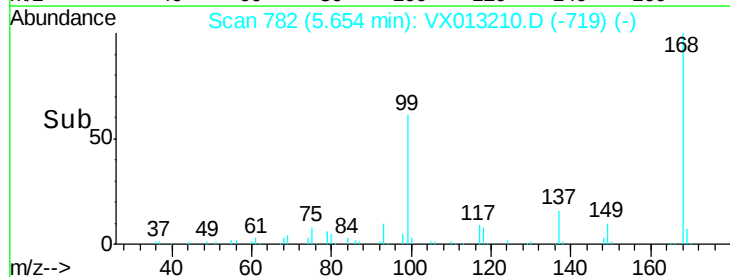
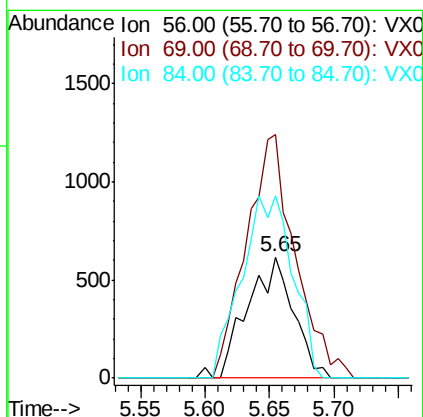
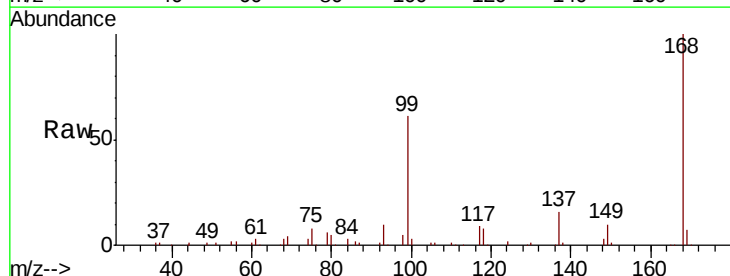
Instrument :
MSVOA_X
ClientSampleId :
S32-0673

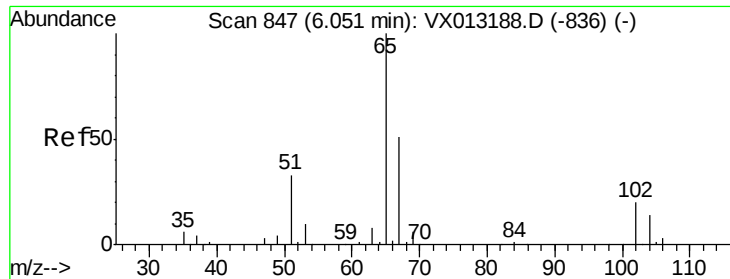
Tot Ion: 42 Resp: 139
Ion Ratio Lower Upper
42 100
72 0.0 40.9 61.3#
71 0.0 38.6 57.8#



#31
Cyclohexane
Concen: 0.704 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

Tgt Ion: 56 Resp: 1535
Ion Ratio Lower Upper
56 100
69 200.8 26.3 39.5#
84 150.0 73.8 110.6#

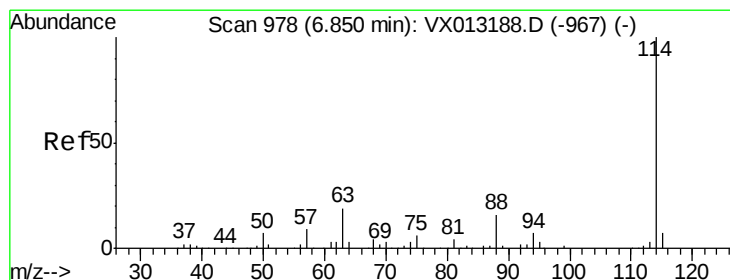
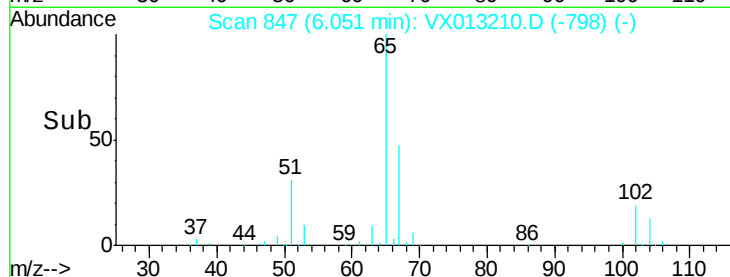
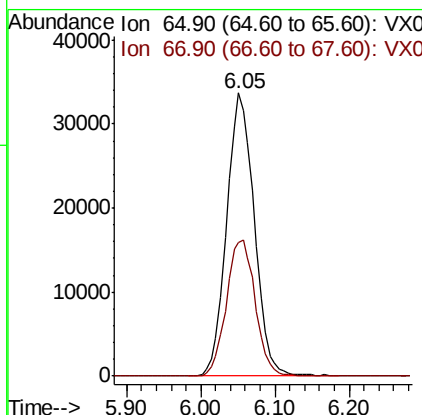
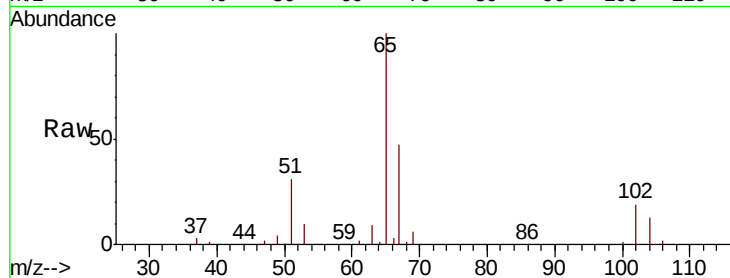




#33
 1,2-Dichloroethane-d4
 Concen: 51.857 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

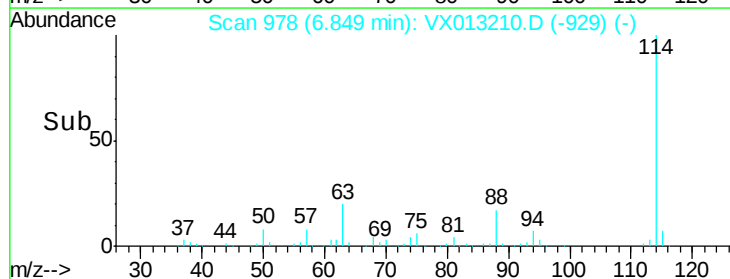
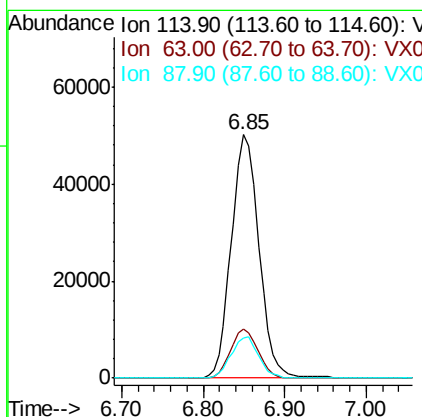
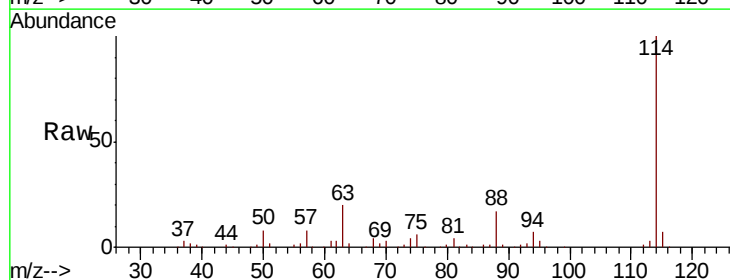
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0673

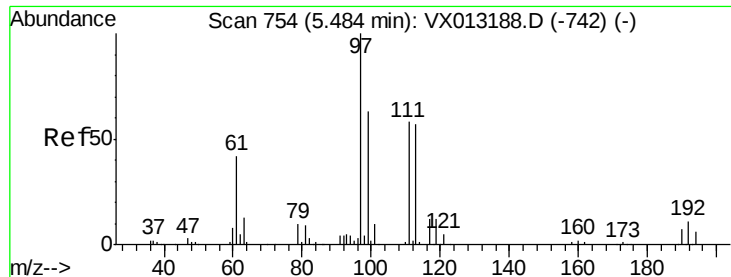
Tot Ion: 65 Resp: 87472
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013210.D
 Acq: 24 Oct 2019 14:42

Tgt Ion: 114 Resp: 117509
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 16.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 51.211 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

S32-0673

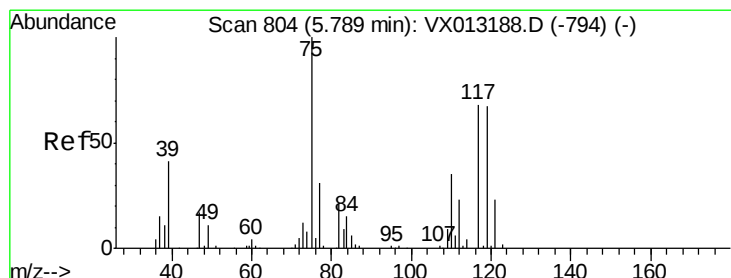
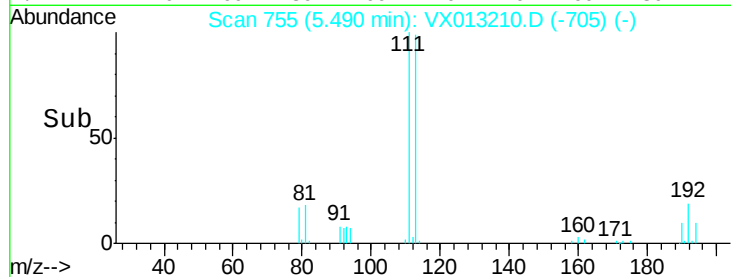
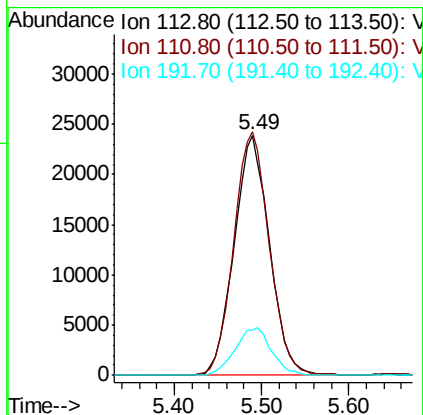
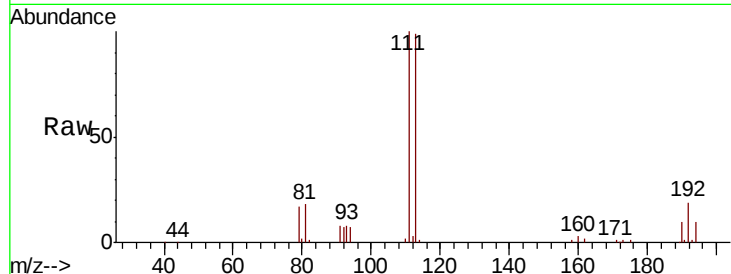
Tot Ion:113 Resp: 67107

Ion Ratio Lower Upper

113 100

111 101.8 80.3 120.5

192 20.2 15.9 23.9



#36

1,1-Dichloropropene

Concen: 2.873 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

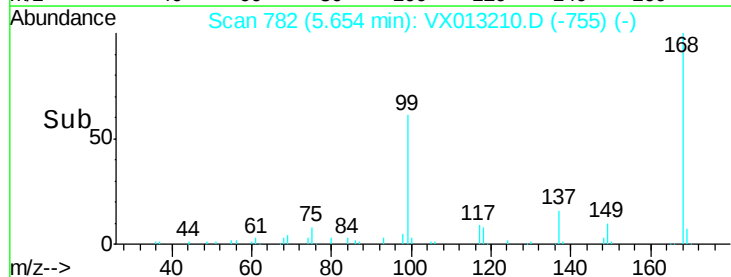
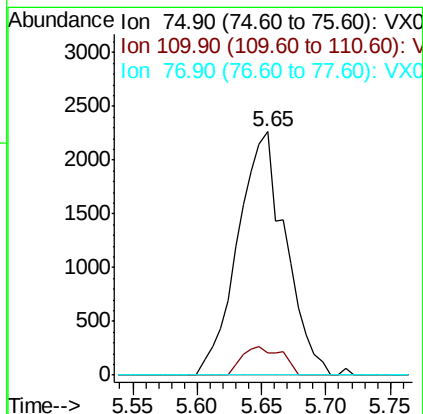
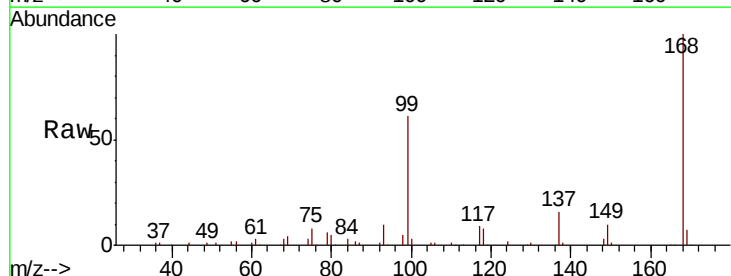
Tgt Ion: 75 Resp: 5795

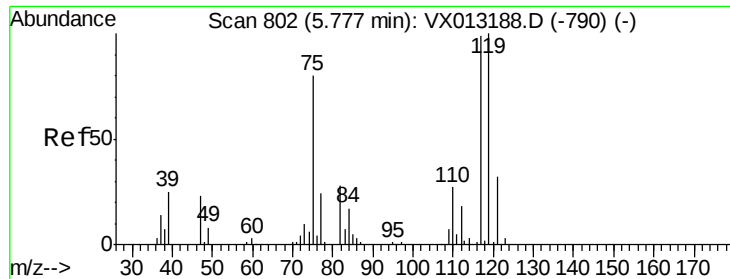
Ion Ratio Lower Upper

75 100

110 9.9 17.6 52.9#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 3.640 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

S32-0673

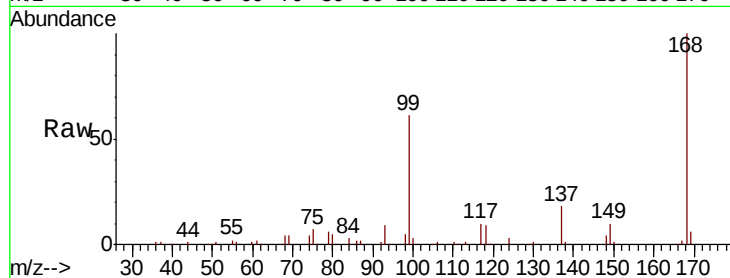
Tot Ion:117 Resp: 7906

Ion Ratio Lower Upper

117 100

119 3.8 80.1 120.1#

121 0.0 25.5 38.3#

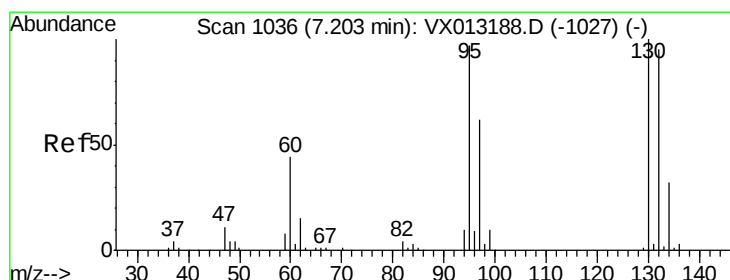
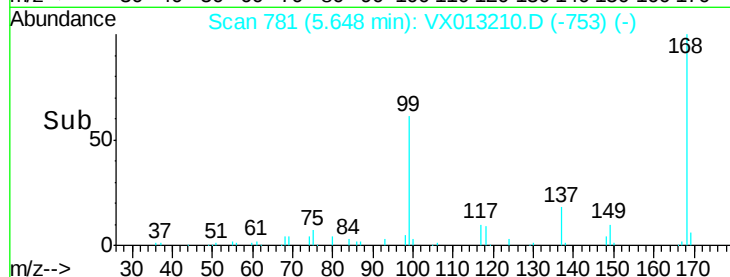
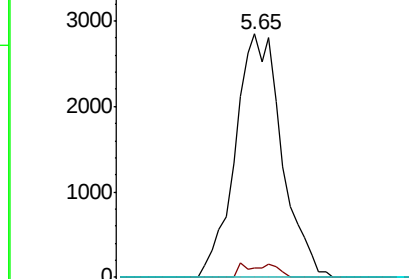


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

5.65



#44

Trichloroethene

Concen: 12.329 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013210.D

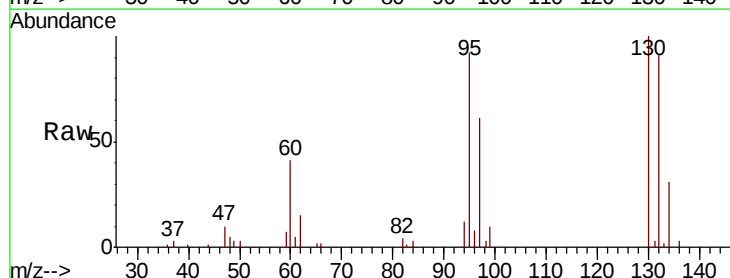
Acq: 24 Oct 2019 14:42

Tgt Ion:130 Resp: 20653

Ion Ratio Lower Upper

130 100

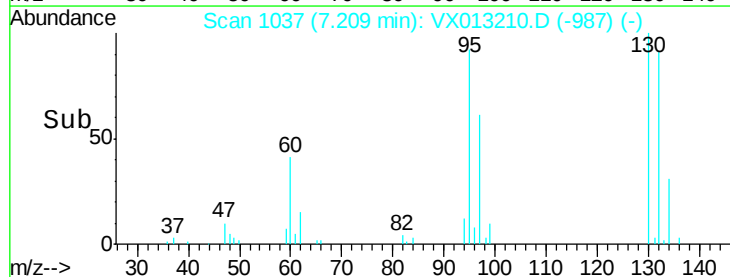
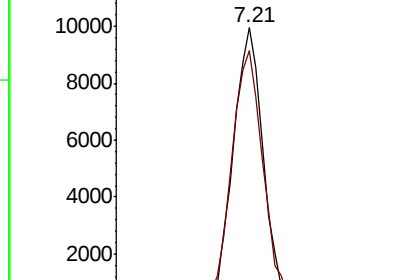
95 91.9 0.0 193.6

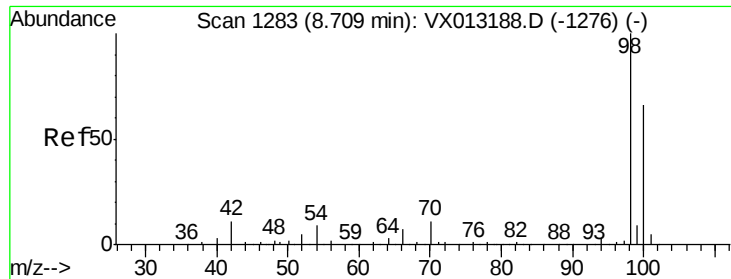


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

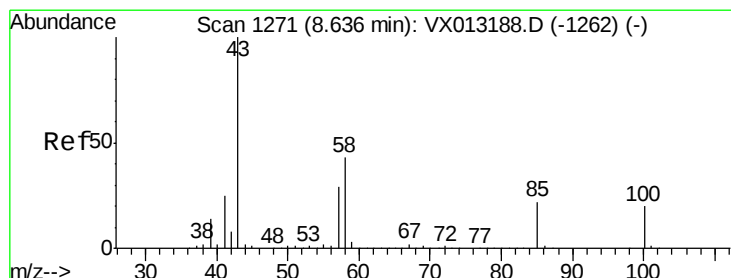
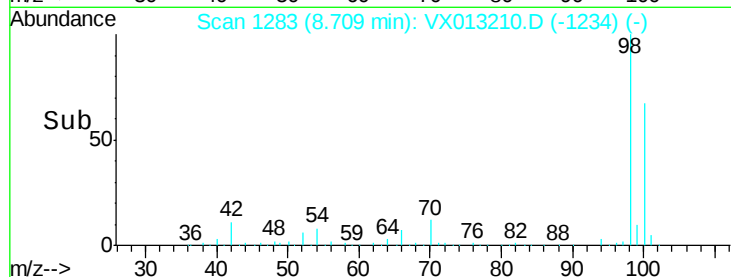
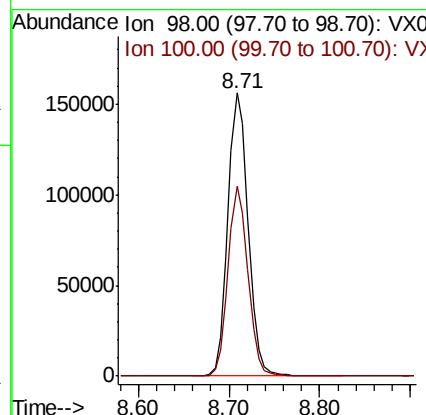
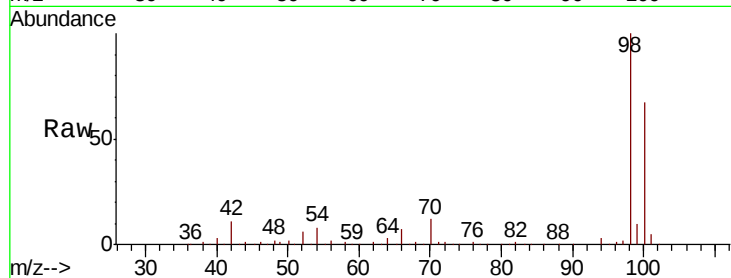




#50
Toluene-d8
Concen: 50.187 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

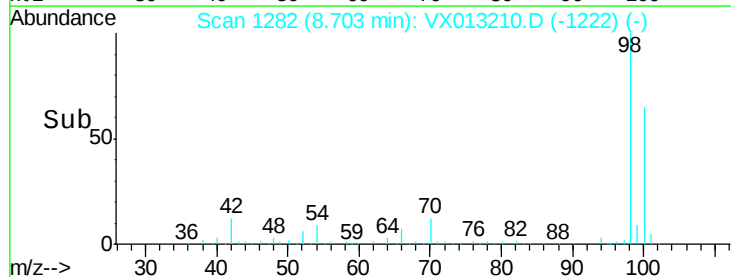
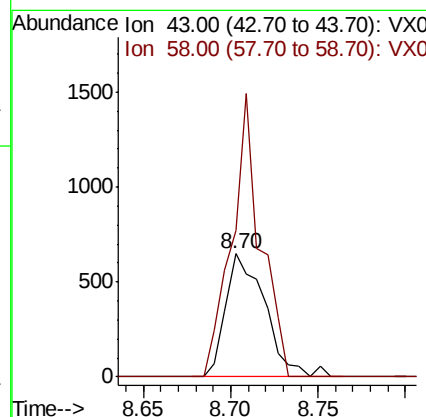
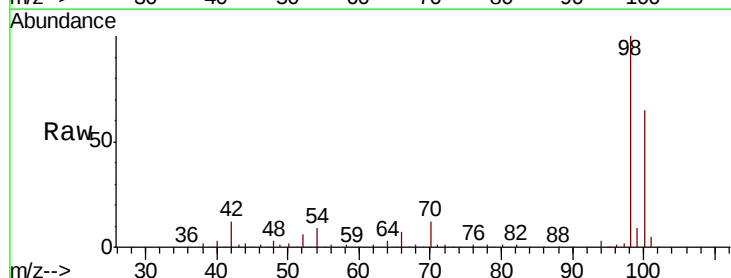
Instrument :
MSVOA_X
ClientSampleId :
S32-0673

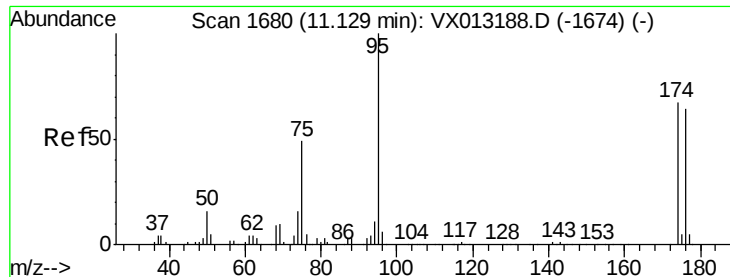
Tot Ion: 98 Resp: 243719
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 0.511 ug/l
RT: 8.70 min Scan# 1282
Delta R.T. 0.07 min
Lab File: VX013210.D
Acq: 24 Oct 2019 14:42

Tgt Ion: 43 Resp: 1013
Ion Ratio Lower Upper
43 100
58 169.8 33.9 50.9#





#62

4-Bromofluorobenzene

Concen: 45.794 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

S32-0673

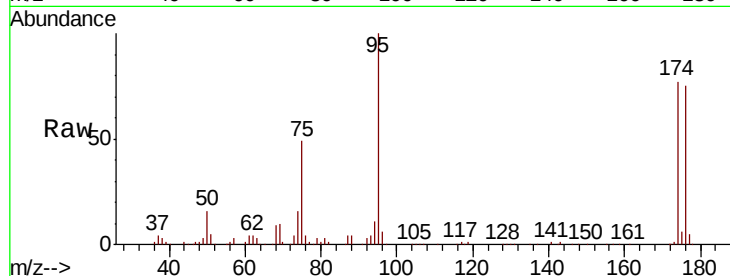
Tot Ion: 95 Resp: 88020

Ion Ratio Lower Upper

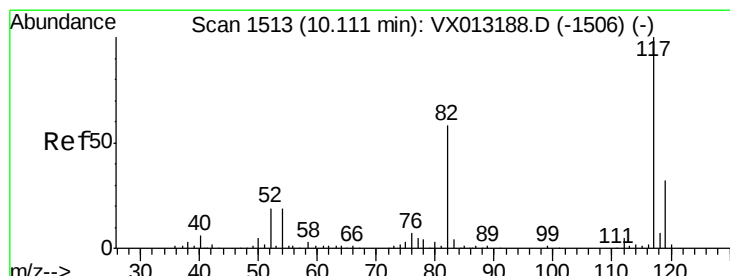
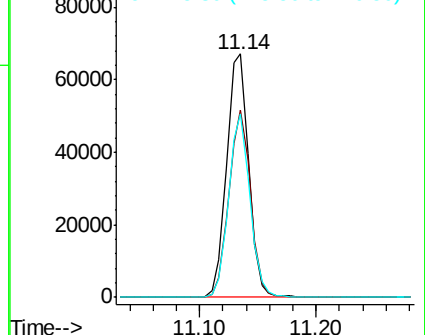
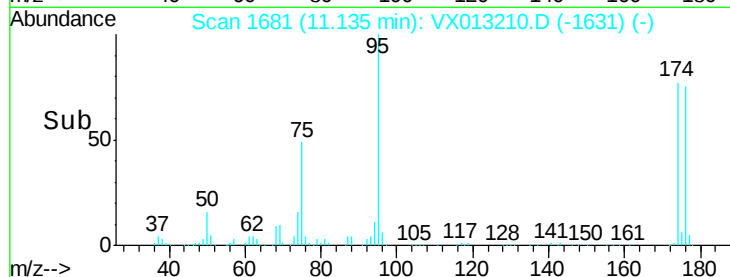
95 100

174 75.7 0.0 152.4

176 72.9 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VX013210.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

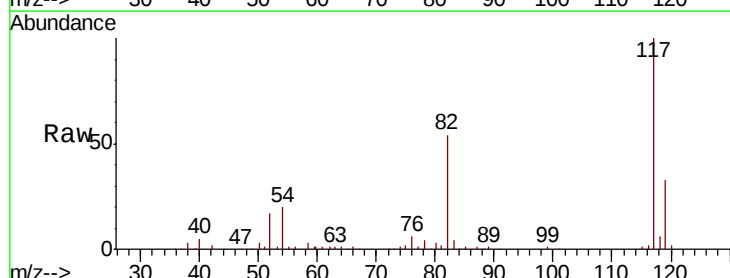
Tgt Ion: 117 Resp: 115920

Ion Ratio Lower Upper

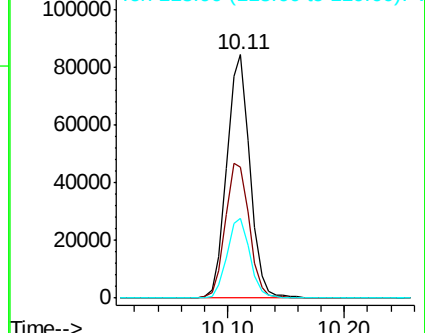
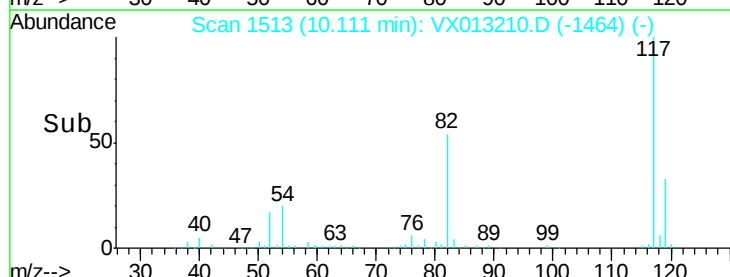
117 100

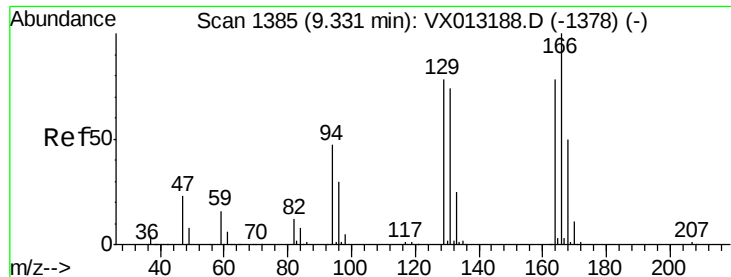
82 53.8 46.5 69.7

119 32.8 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VX013210.D (-1464) (-)





#64

Tetrachloroethene

Concen: Below Cal

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

S32-0673

Tot Ion:164 Resp: 79

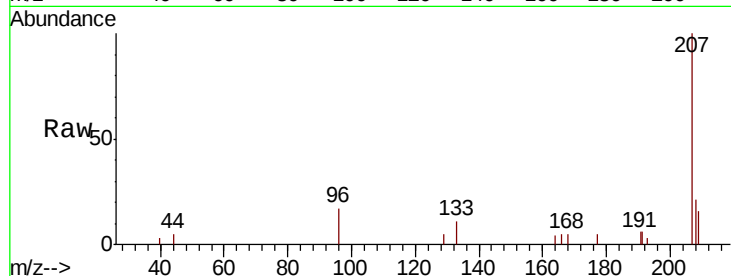
Ion Ratio Lower Upper

164 100

166 108.6 102.2 153.4

129 116.0 79.8 119.8

131 0.0 75.3 112.9#

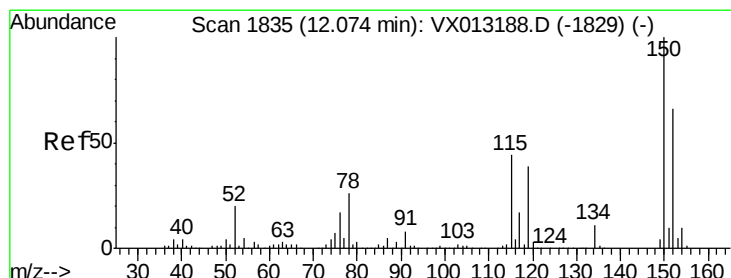
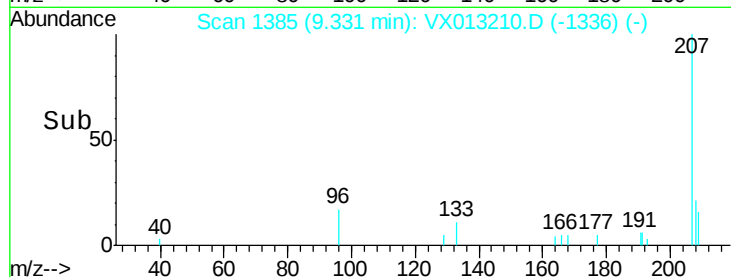
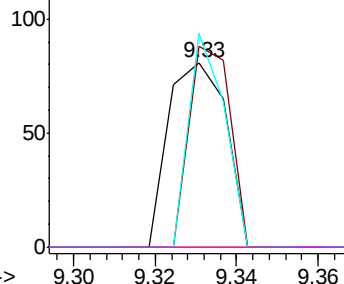


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

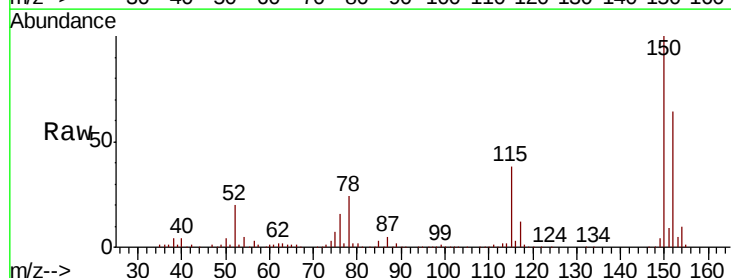
Tgt Ion:152 Resp: 73769

Ion Ratio Lower Upper

152 100

115 61.5 46.6 139.8

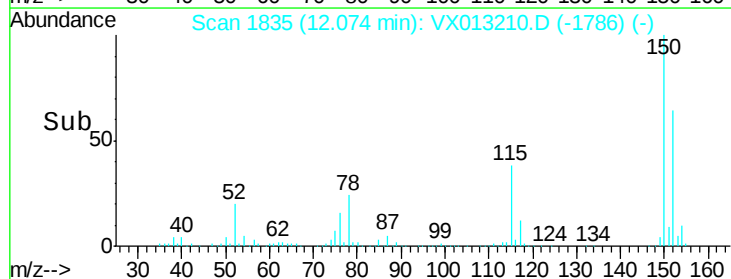
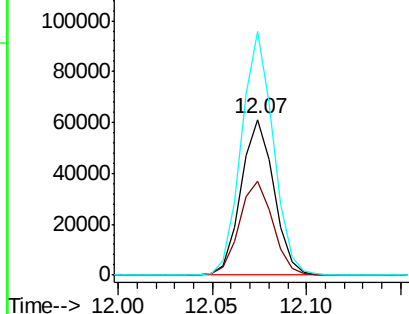
150 152.9 0.0 354.0

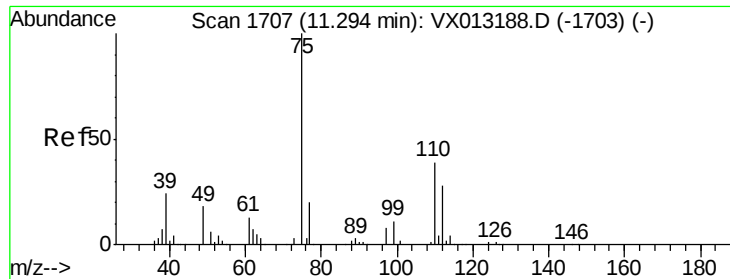


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.221 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013210.D

Acq: 24 Oct 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

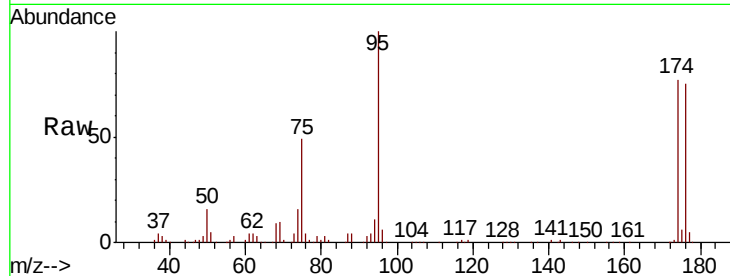
S32-0673

Tot Ion: 75 Resp: 43064

Ion Ratio Lower Upper

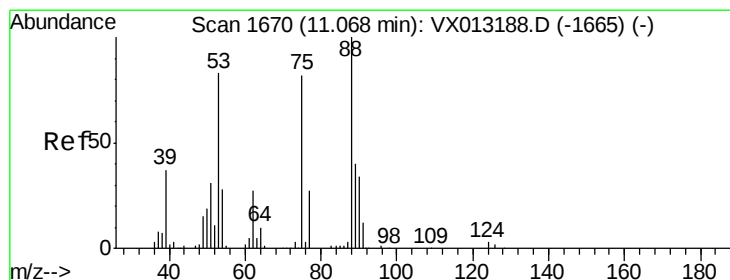
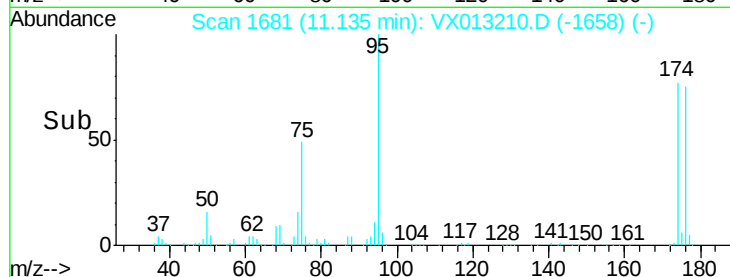
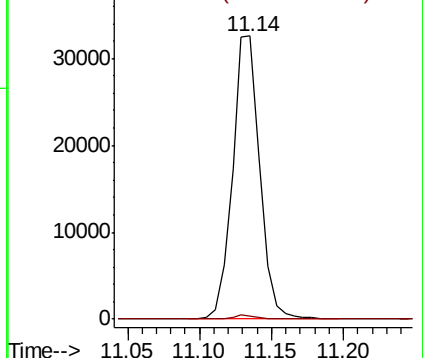
75 100

77 1.3 19.1 57.5#



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: 66.558 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

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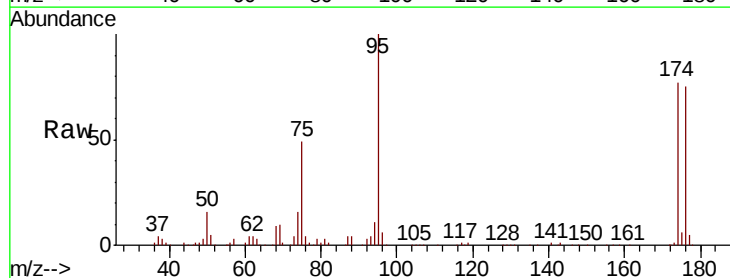
Tgt Ion: 75 Resp: 43064

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#



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

