

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX101419\
 Data File : VX013048.D
 Acq On : 14 Oct 2019 13:46
 Operator : JC/SP
 Sample : K5312-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0559

Quant Time: Oct 15 01:25:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285310	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	88303	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	109234	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	5.49	113	86229	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
50) Toluene-d8	8.71	98	331377	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	11.13	95	106410	42.88	ug/l	0.00
Spiked Amount			Recovery	=	85.76%	

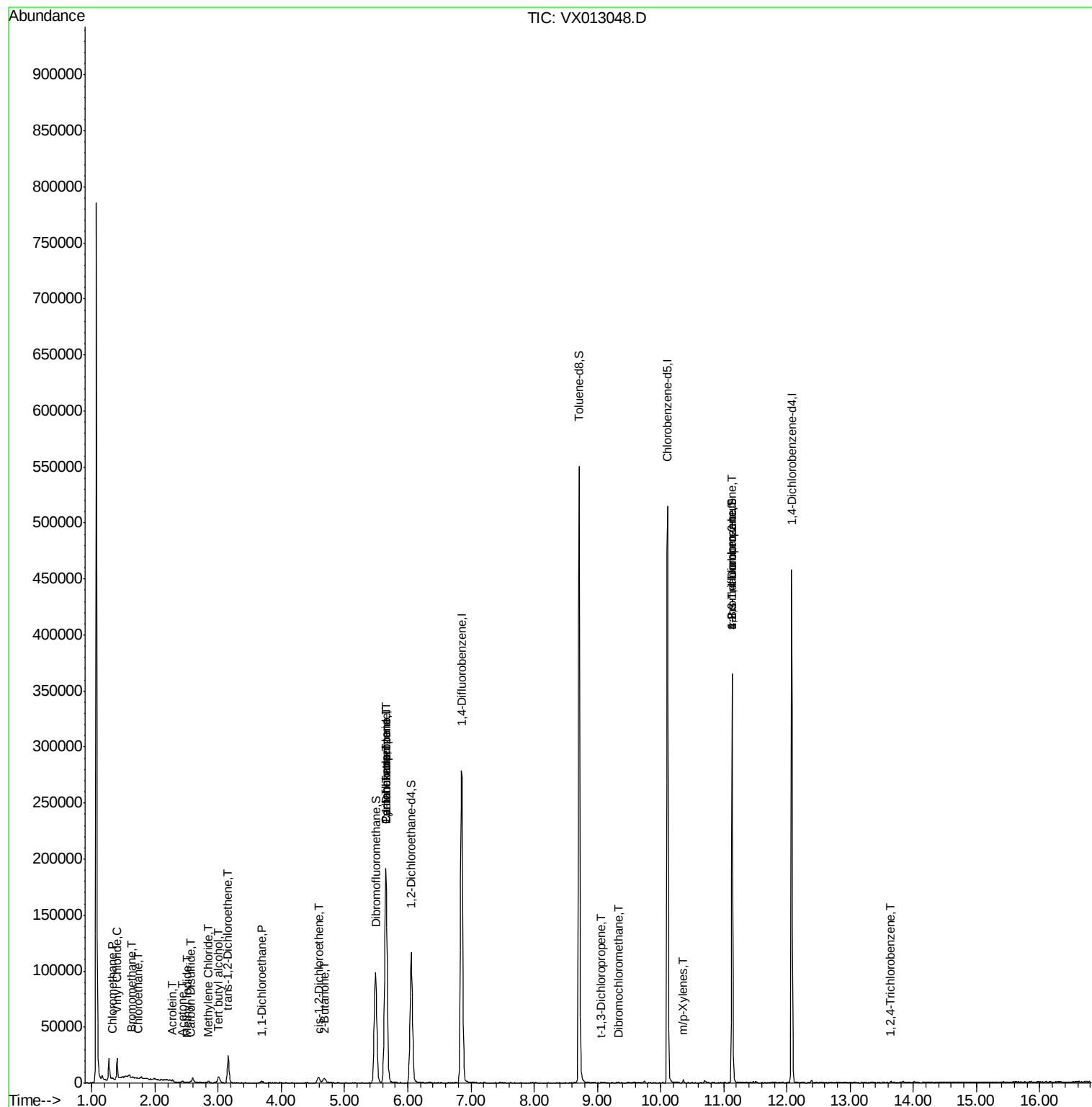
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	573	0.289	ug/l #	84
4) Vinyl Chloride	1.40	62	11115	5.434	ug/l	100
5) Bromomethane	1.64	94	480	0.565	ug/l	81
6) Chloroethane	1.73	64	359	0.653	ug/l #	76
10) Methyl Iodide	2.51	142	488	5.298	ug/l #	70
11) Tert butyl alcohol	3.01	59	4049	6.841	ug/l #	74
13) Acrolein	2.28	56	178	0.423	ug/l	89
16) Acetone	2.43	43	1735	1.474	ug/l #	86
17) Carbon Disulfide	2.56	76	1276	0.248	ug/l #	90
20) Methylene Chloride	2.85	84	577	0.267	ug/l	94
21) trans-1,2-Dichloroethene	3.16	96	10216	5.280	ug/l	91
24) 1,1-Dichloroethane	3.69	63	1979	0.571	ug/l #	81
25) 2-Butanone	4.68	43	427	0.262	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	2895	1.298	ug/l	96
31) Cyclohexane	5.65	56	3725	1.150	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14041	5.597	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18475	7.567	ug/l #	18
53) t-1,3-Dichloropropene	9.05	75	63	2.189	ug/l #	42
60) Dibromochloromethane	9.33	129	43	1.877	ug/l #	10
68) m/p-Xylenes	10.35	106	730	0.230	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	53243	27.185	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	53243	68.279	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.64	180	493	0.283	ug/l	89

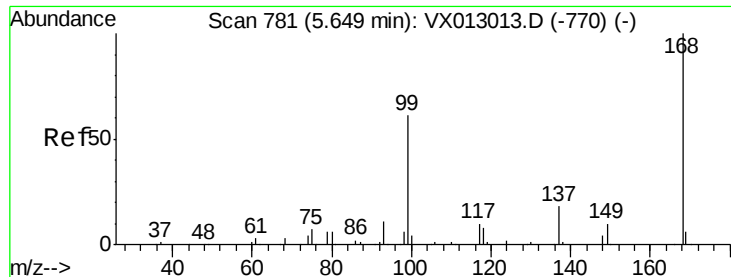
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

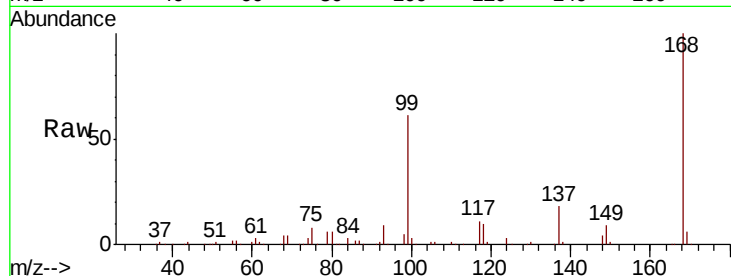
S49-0559

Tot Ion:168 Resp: 178630

Ion Ratio Lower Upper

168 100

99 60.6 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

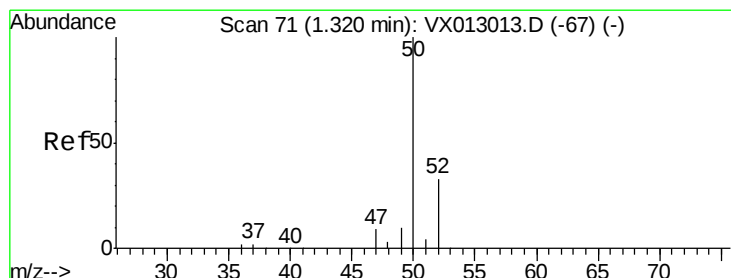
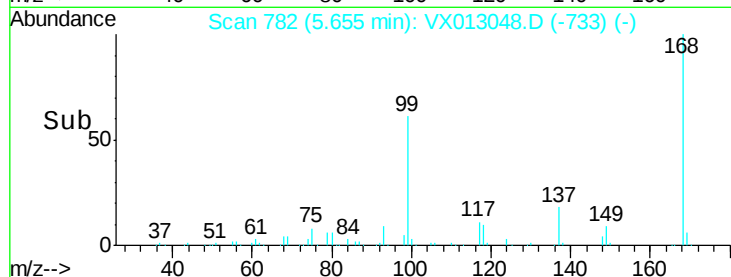
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.289 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013048.D

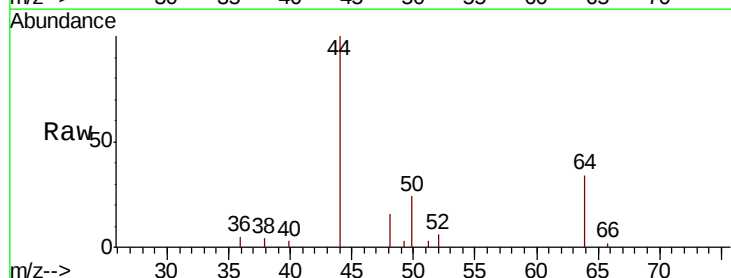
Acq: 14 Oct 2019 13:46

Tgt Ion: 50 Resp: 573

Ion Ratio Lower Upper

50 100

52 22.7 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

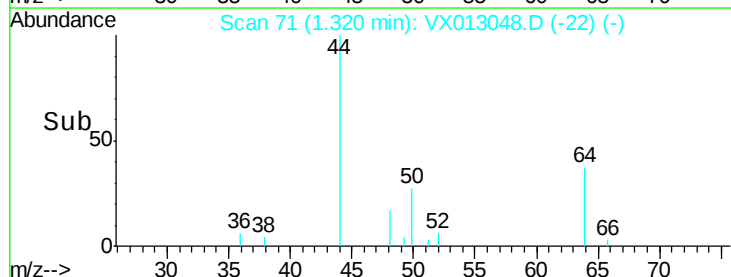
300

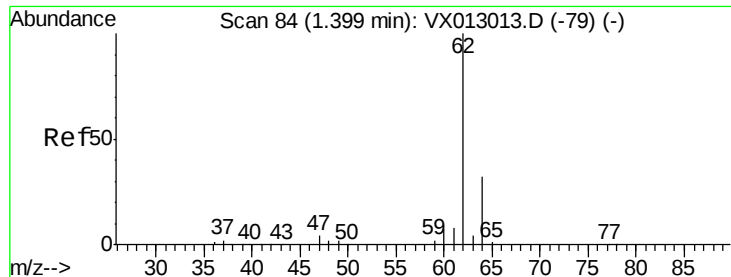
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 5.434 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampled :

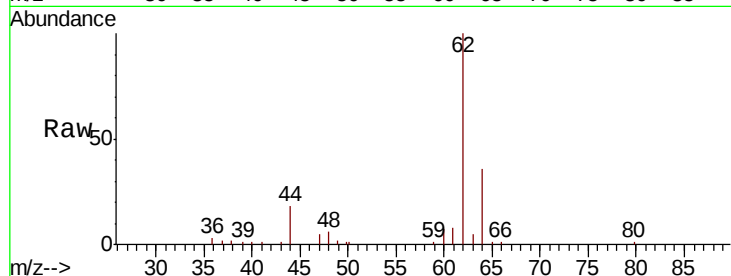
S49-0559

Tot Ion: 62 Resp: 11115

Ion Ratio Lower Upper

62 100

64 31.8 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

12000

10000

8000

6000

4000

2000

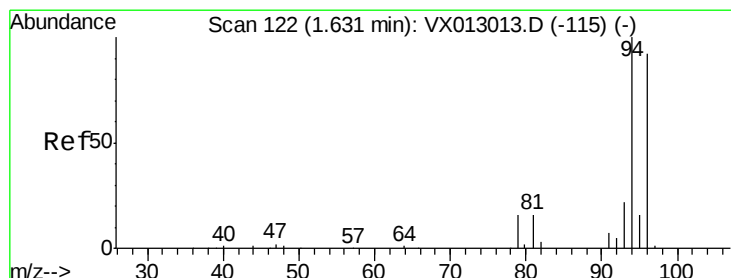
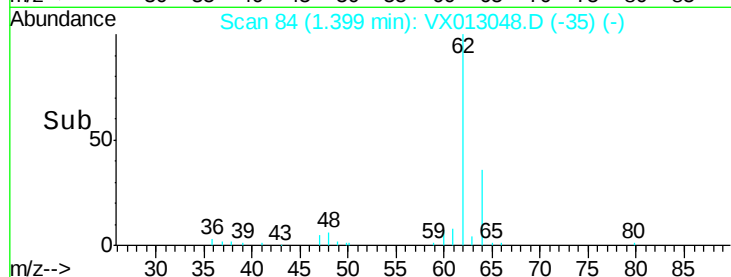
0

1.35

1.40

1.45

Time-->



#5

Bromomethane

Concen: 0.565 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013048.D

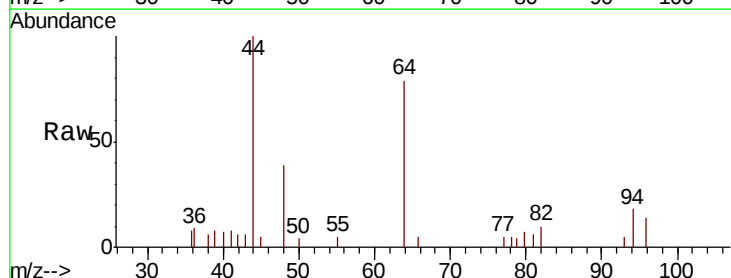
Acq: 14 Oct 2019 13:46

Tgt Ion: 94 Resp: 480

Ion Ratio Lower Upper

94 100

96 74.8 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

100

50

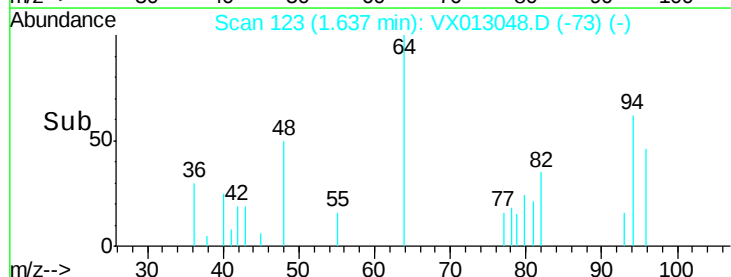
0

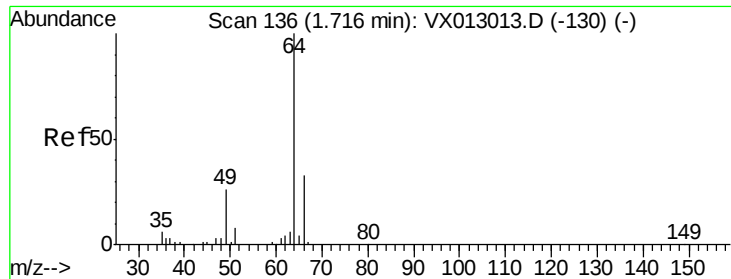
1.60

1.65

1.70

Time-->





#6

Chloroethane

Concen: 0.653 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

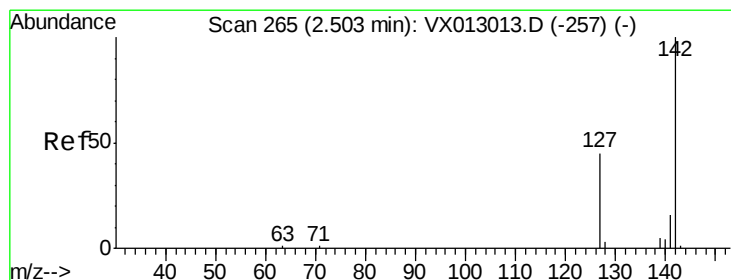
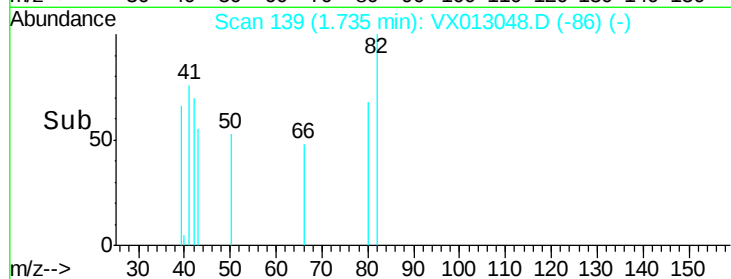
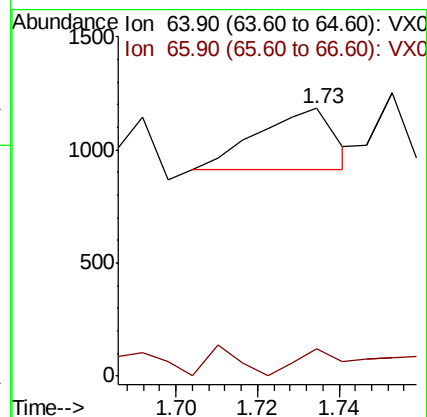
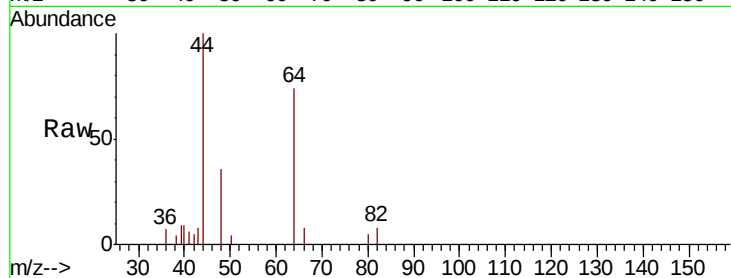
S49-0559

Tot Ion: 64 Resp: 359

Ion Ratio Lower Upper

64 100

66 45.2 25.6 38.4#



#10

Methyl Iodide

Concen: 5.298 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

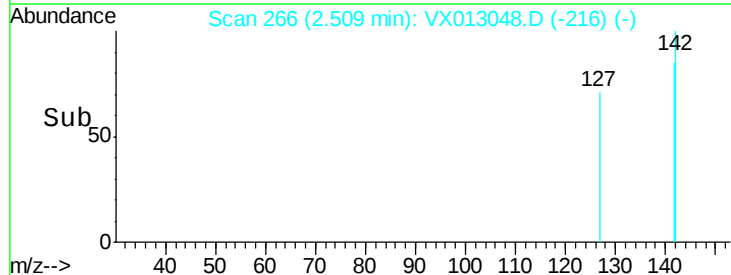
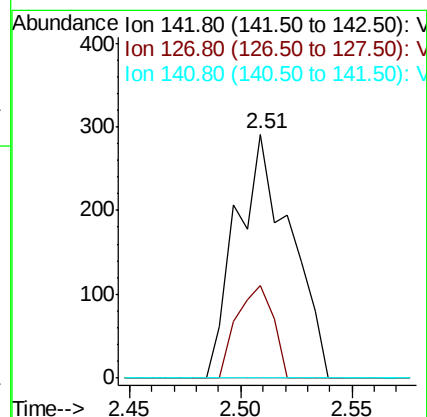
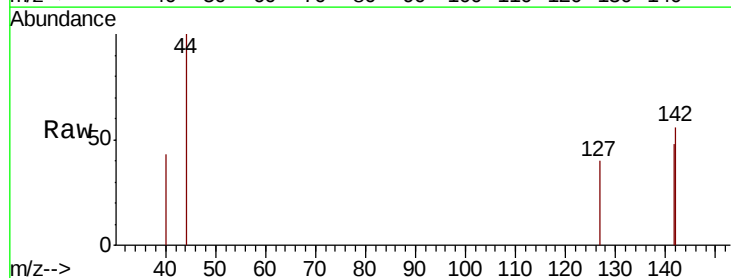
Tgt Ion: 142 Resp: 488

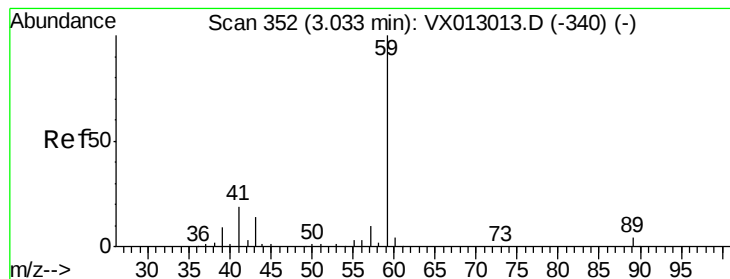
Ion Ratio Lower Upper

142 100

127 25.6 34.9 52.3#

141 0.0 11.6 17.4#



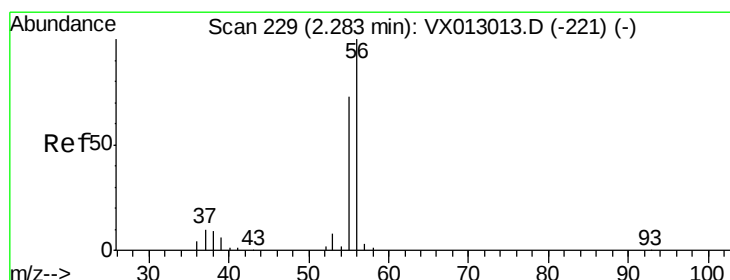
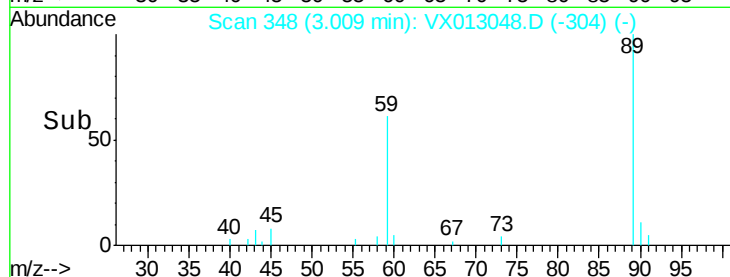
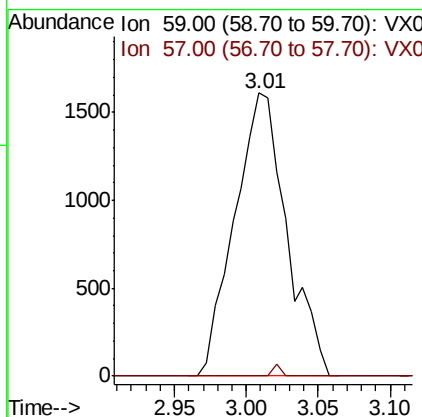
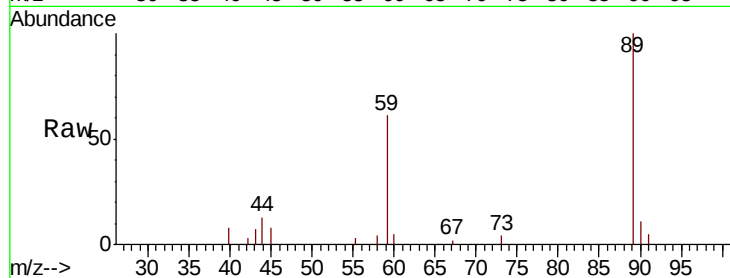


#11

Tert butyl alcohol
 Concen: 6.841 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX013048.D
 Acq: 14 Oct 2019 13:46

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0559

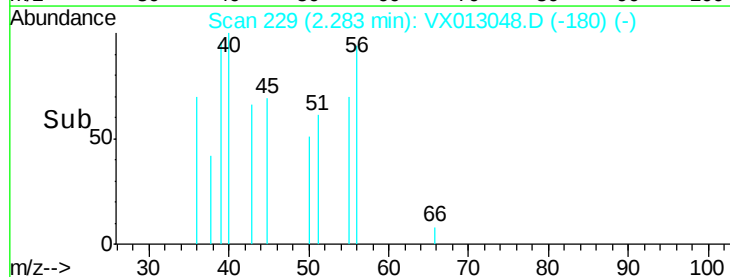
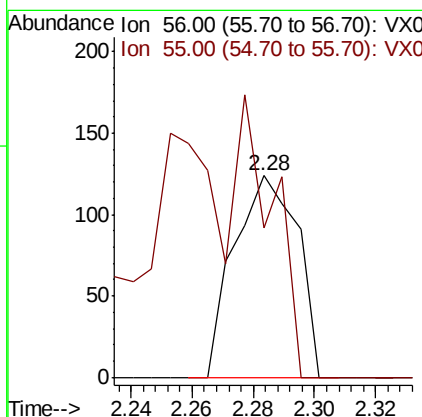
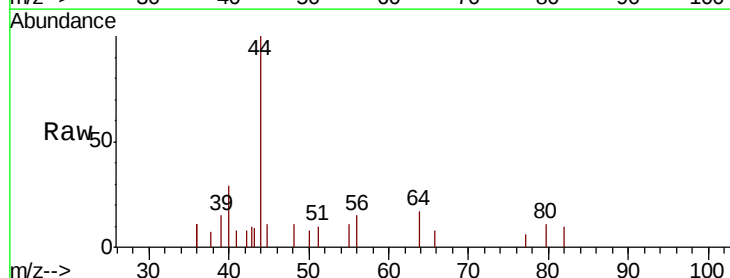
Tot Ion: 59 Resp: 4049
 Ion Ratio Lower Upper
 59 100
 57 0.6 8.3 12.5#

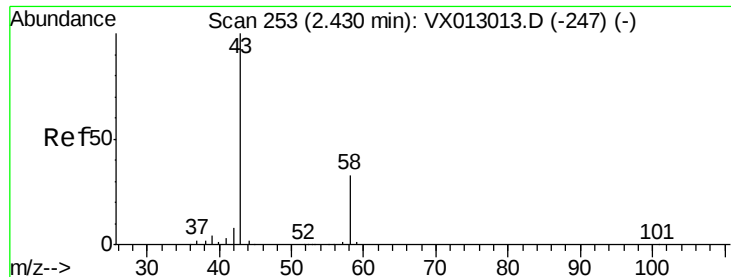


#13

Acrolein
 Concen: 0.423 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX013048.D
 Acq: 14 Oct 2019 13:46

Tgt Ion: 56 Resp: 178
 Ion Ratio Lower Upper
 56 100
 55 79.8 56.6 85.0





#16

Acetone

Concen: 1.474 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampled :

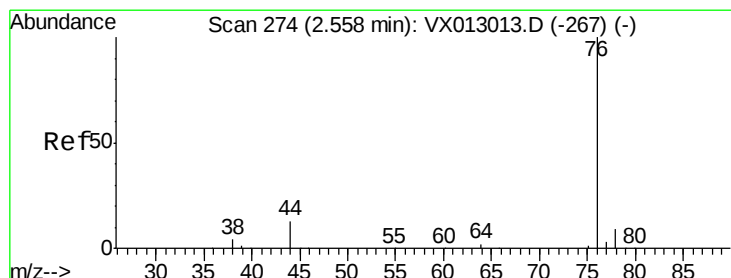
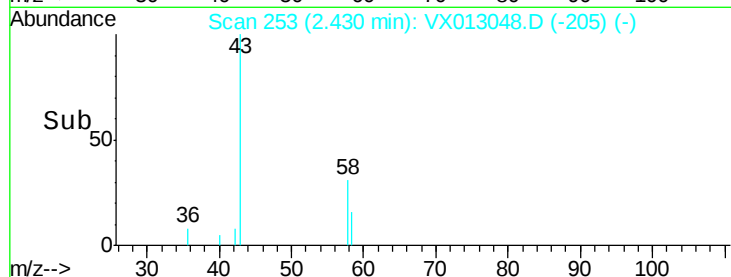
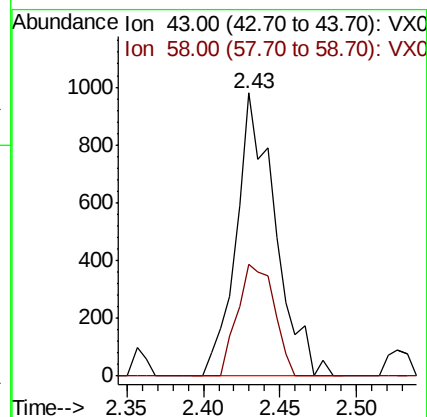
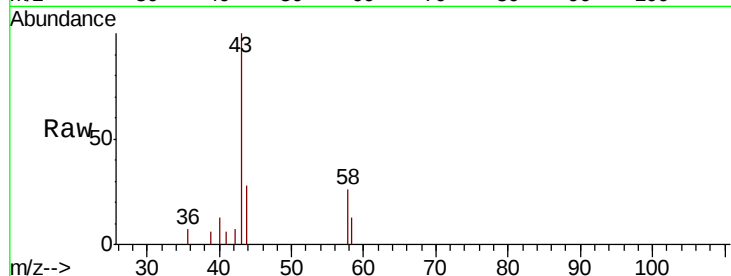
S49-0559

Tot Ion: 43 Resp: 1735

Ion Ratio Lower Upper

43 100

58 39.7 25.4 38.2#



#17

Carbon Disulfide

Concen: 0.248 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX013048.D

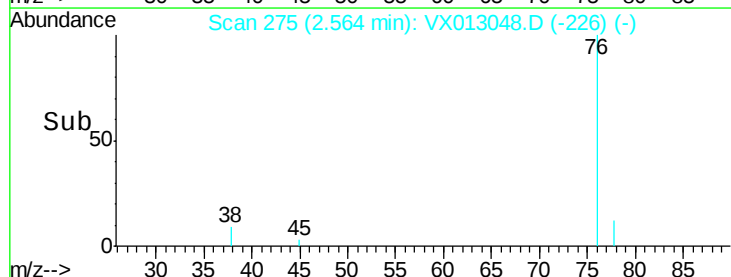
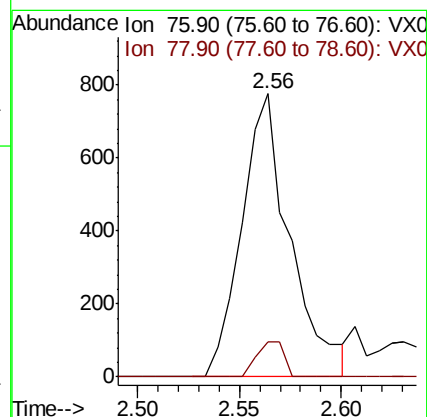
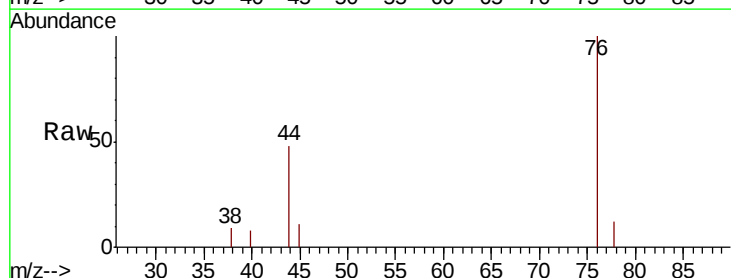
Acq: 14 Oct 2019 13:46

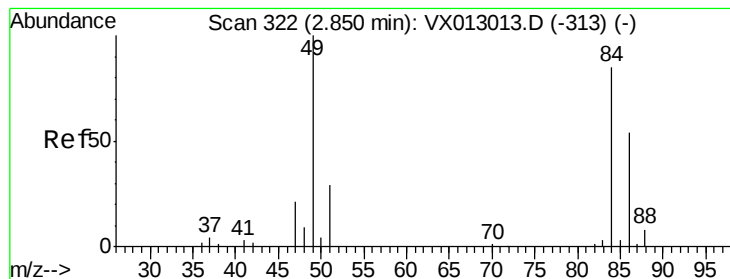
Tgt Ion: 76 Resp: 1276

Ion Ratio Lower Upper

76 100

78 12.5 7.1 10.7#





#20

Methylene Chloride

Concen: 0.267 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampled :

S49-0559

Tot Ion: 84 Resp: 577

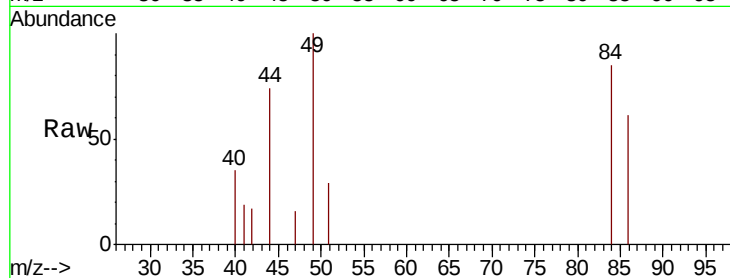
Ion Ratio Lower Upper

84 100

49 117.1 96.6 144.8

51 33.6 30.7 46.1

86 71.7 51.0 76.6

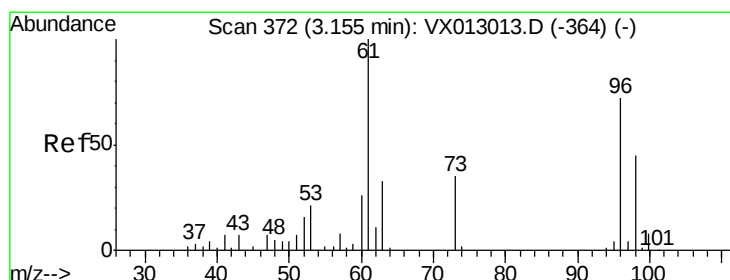
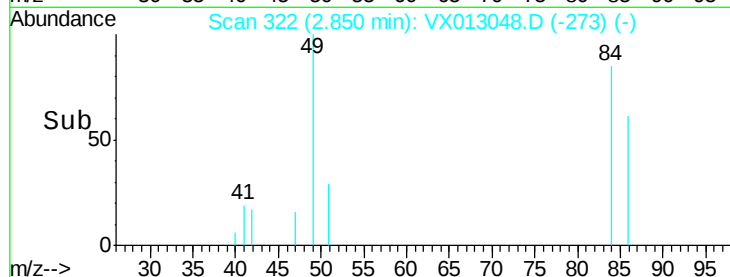
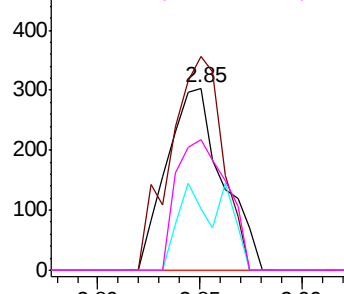


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 5.280 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

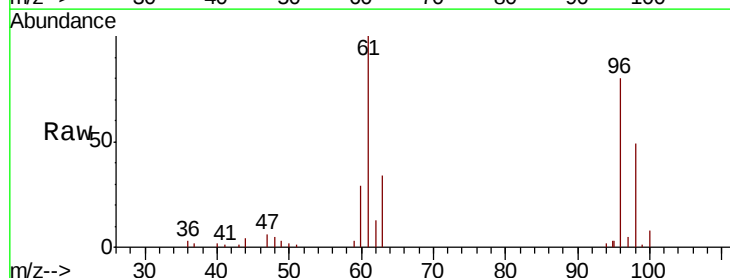
Tgt Ion: 96 Resp: 10216

Ion Ratio Lower Upper

96 100

61 124.9 110.4 165.6

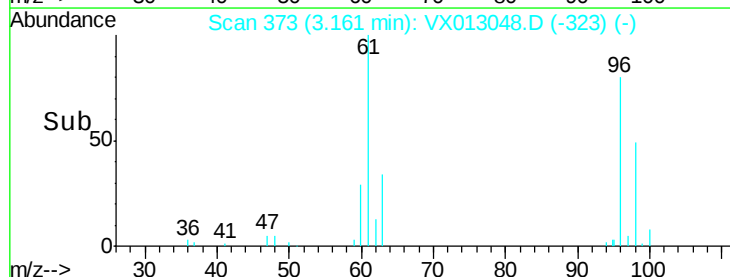
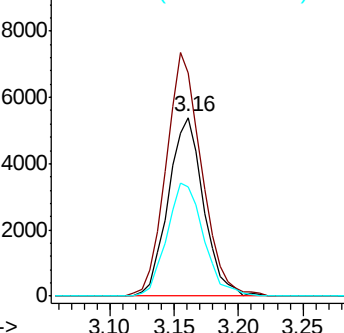
98 61.0 51.5 77.3

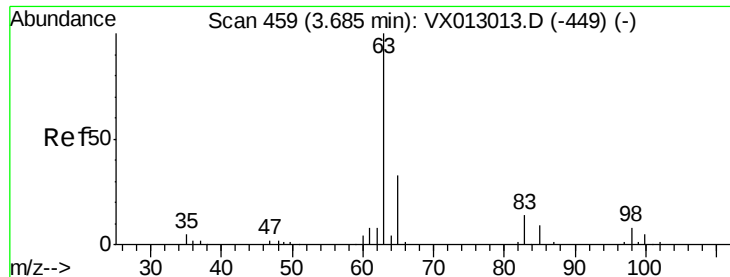


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 0.571 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

S49-0559

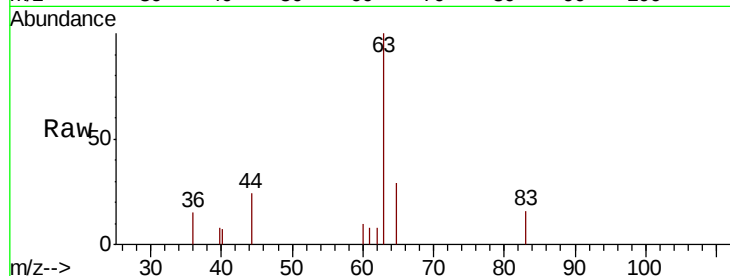
Tot Ion: 63 Resp: 1979

Ion Ratio Lower Upper

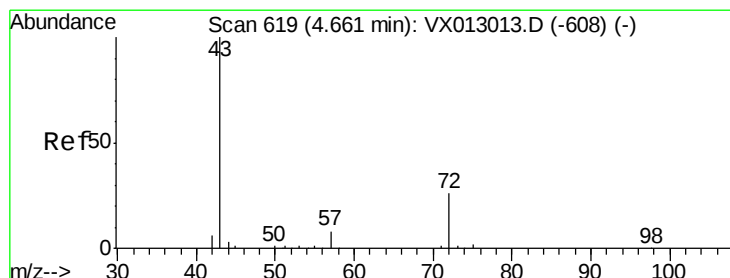
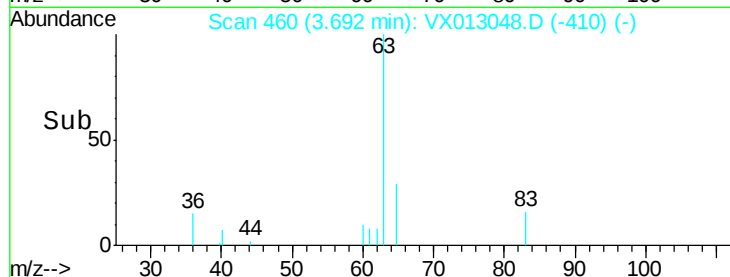
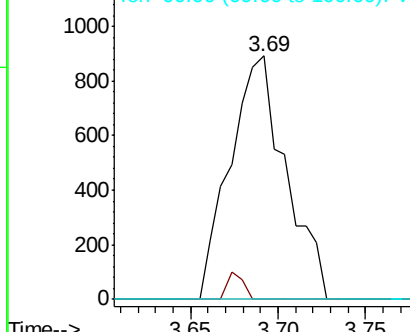
63 100

98 0.0 3.9 11.5#

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.262 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013048.D

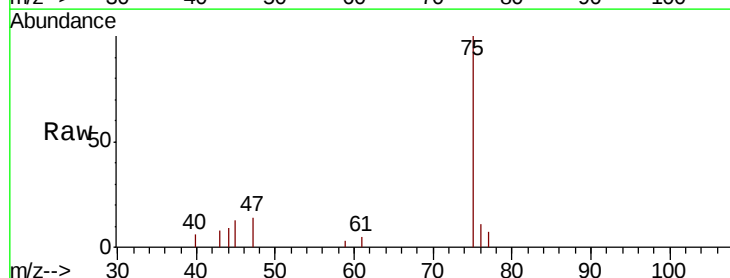
Acq: 14 Oct 2019 13:46

Tgt Ion: 43 Resp: 427

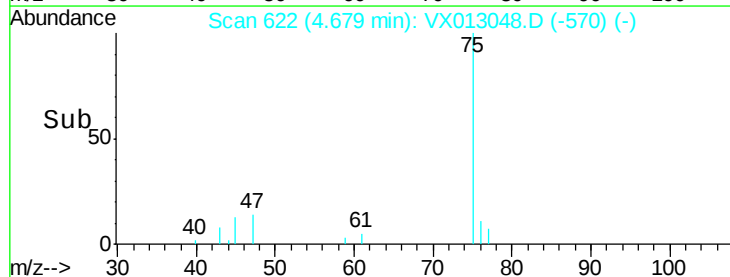
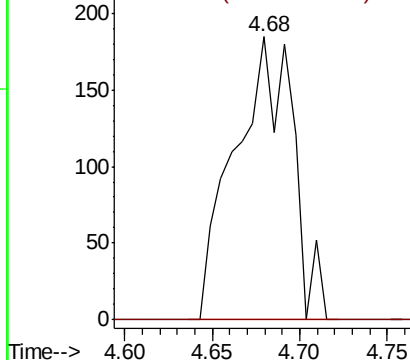
Ion Ratio Lower Upper

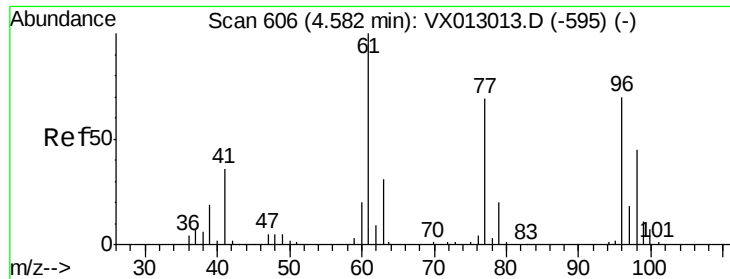
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



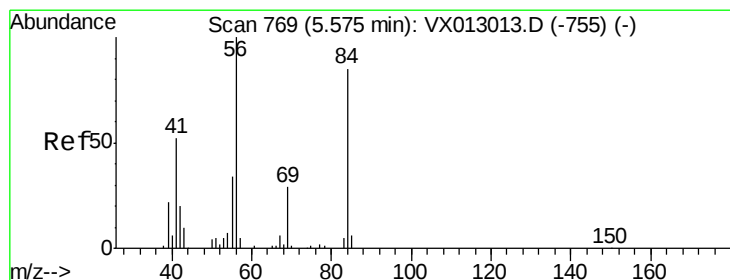
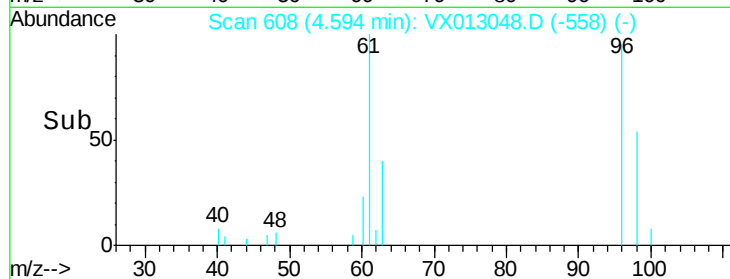
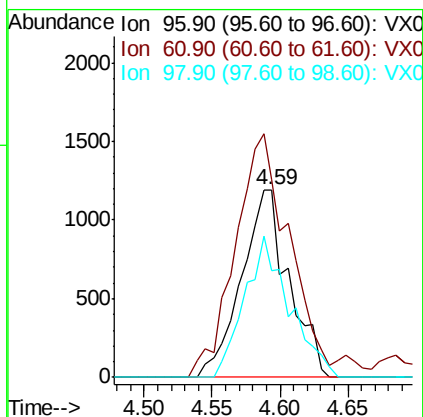
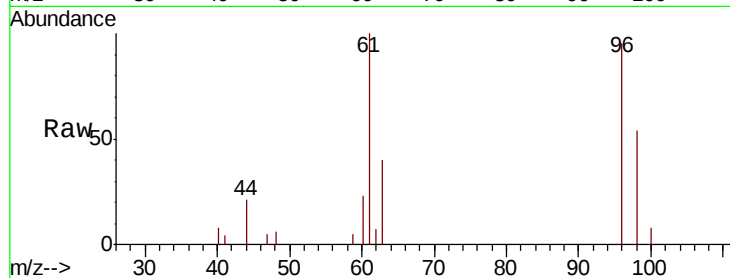


#27

cis-1,2-Dichloroethene
 Concen: 1.298 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX013048.D
 Acq: 14 Oct 2019 13:46

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0559

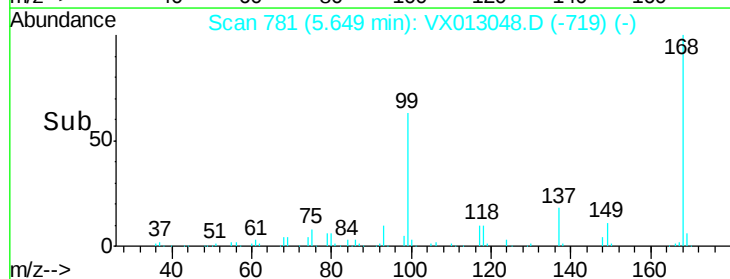
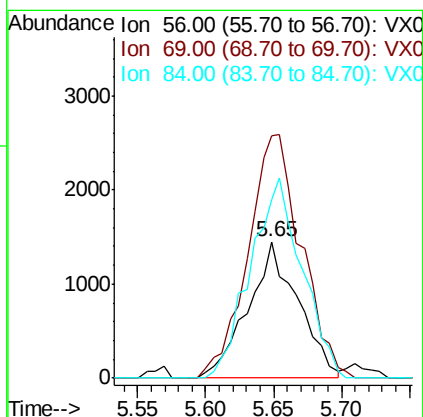
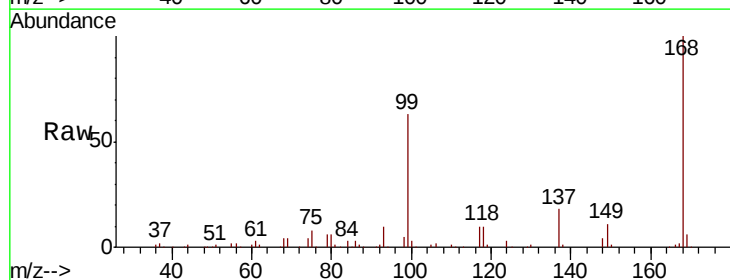
Tot Ion: 96 Resp: 2895
 Ion Ratio Lower Upper
 96 100
 61 147.8 0.0 290.6
 98 71.9 0.0 128.8

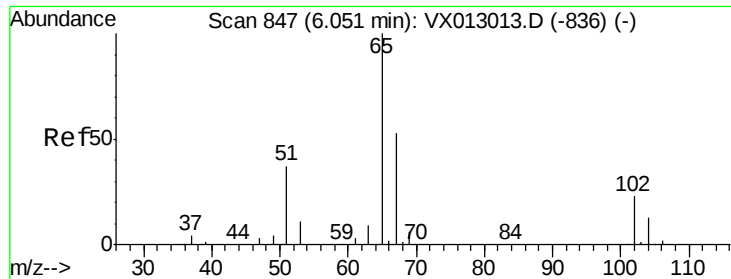


#31

Cyclohexane
 Concen: 1.150 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX013048.D
 Acq: 14 Oct 2019 13:46

Tgt Ion: 56 Resp: 3725
 Ion Ratio Lower Upper
 56 100
 69 177.8 25.2 37.8#
 84 130.8 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 48.926 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

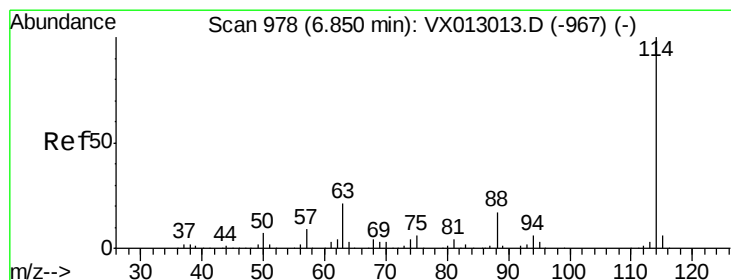
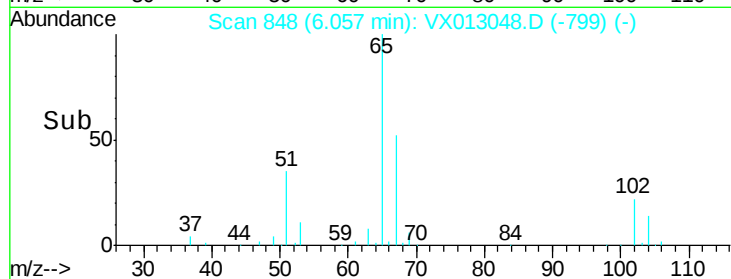
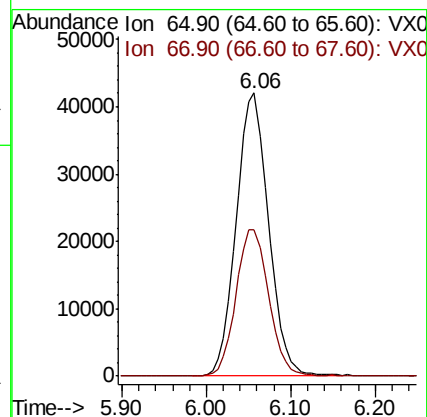
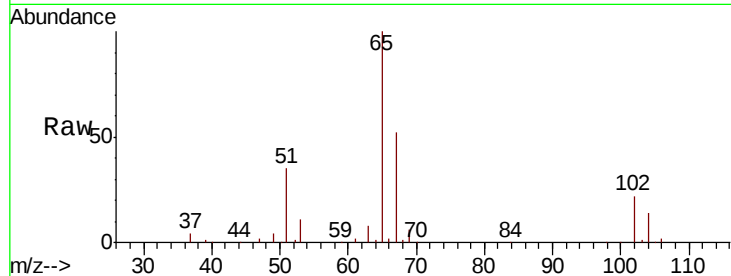
S49-0559

Tot Ion: 65 Resp: 109234

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

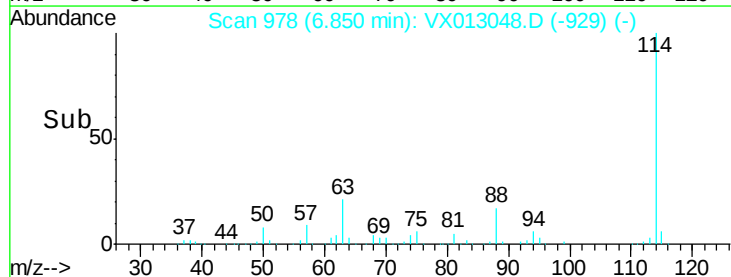
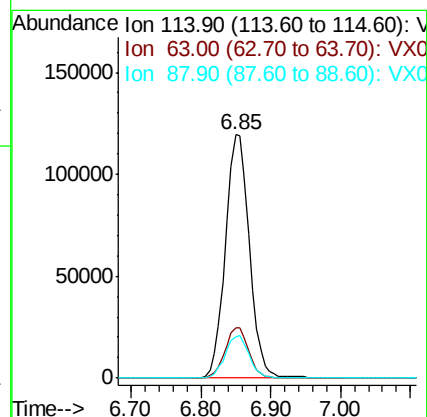
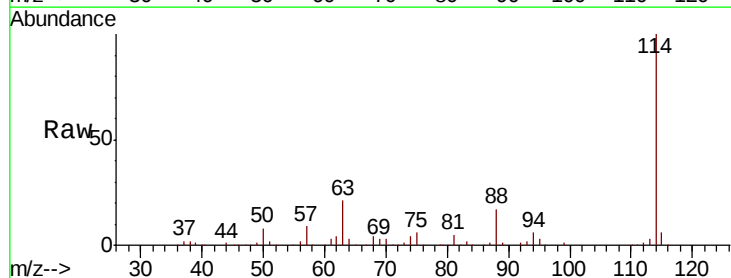
Tgt Ion: 114 Resp: 285310

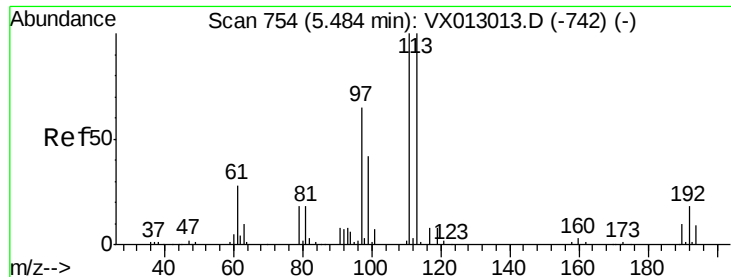
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.658 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

S49-0559

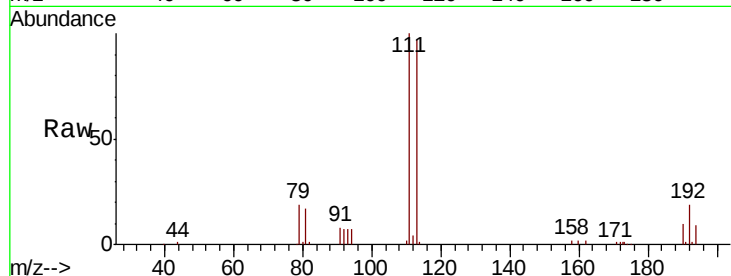
Tot Ion:113 Resp: 86229

Ion Ratio Lower Upper

113 100

111 103.9 83.2 124.8

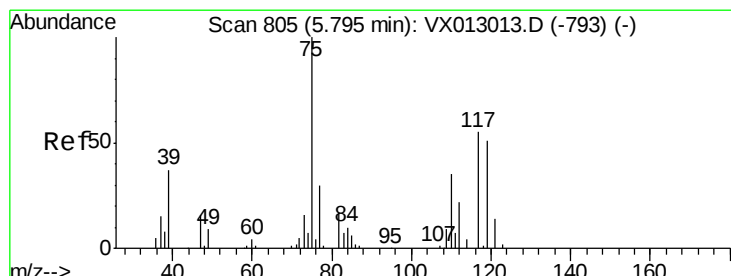
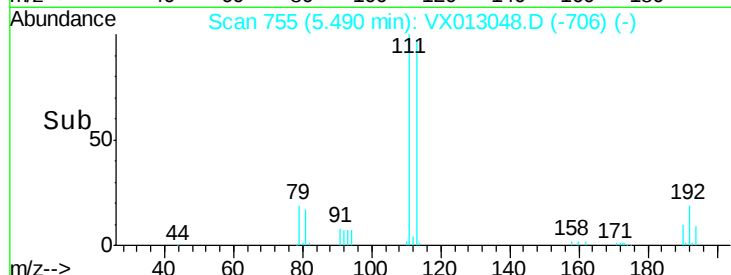
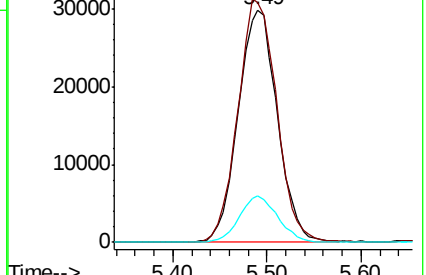
192 19.5 15.4 23.2



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: 5.597 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

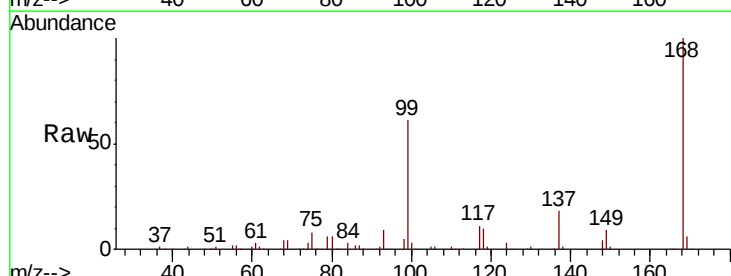
Tgt Ion: 75 Resp: 14041

Ion Ratio Lower Upper

75 100

110 9.9 17.6 52.9#

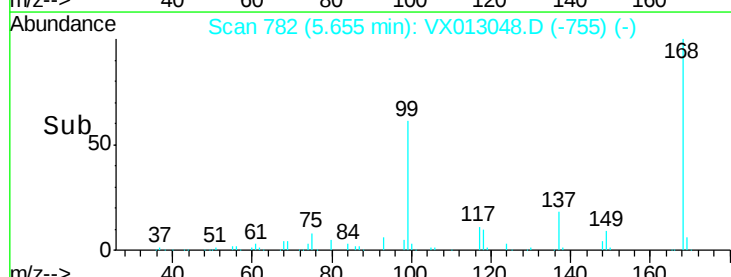
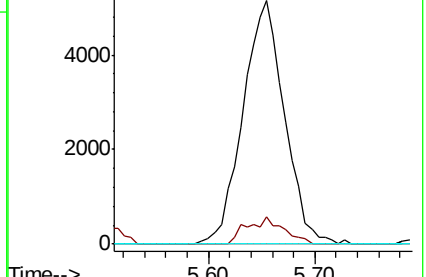
77 0.0 24.4 36.6#

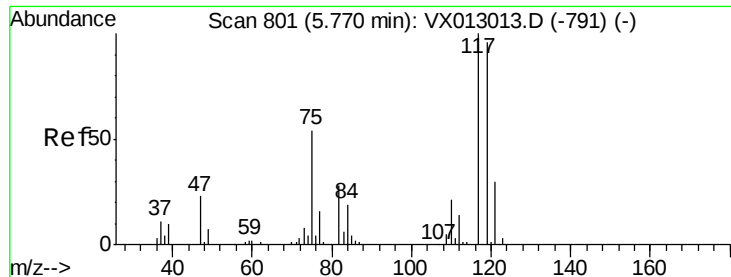


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

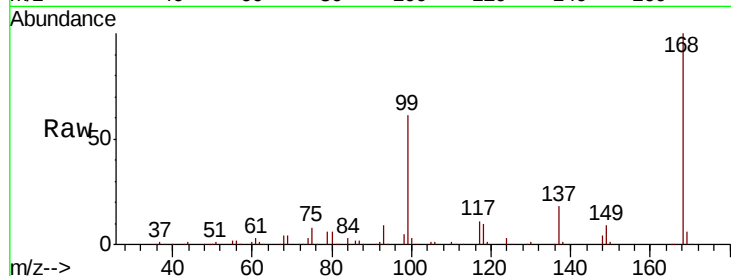




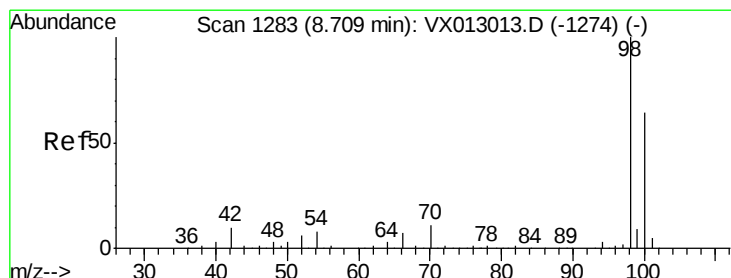
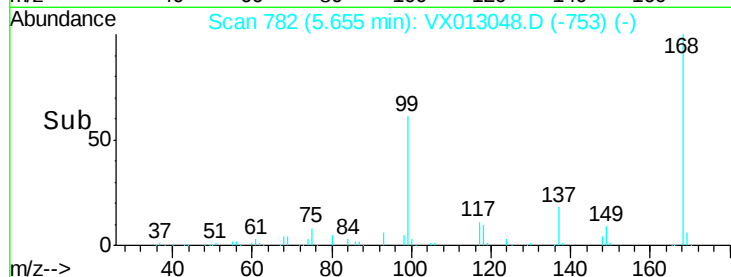
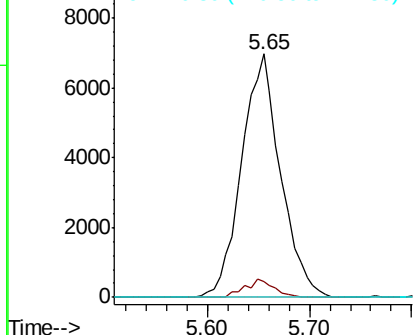
#38
Carbon Tetrachloride
Concen: 7.567 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013048.D
Acq: 14 Oct 2019 13:46

Instrument :
MSVOA_X
ClientSampleId :
S49-0559

Tot Ion:117 Resp: 18475
Ion Ratio Lower Upper
117 100
119 6.2 74.5 111.7#
121 0.0 24.2 36.4#

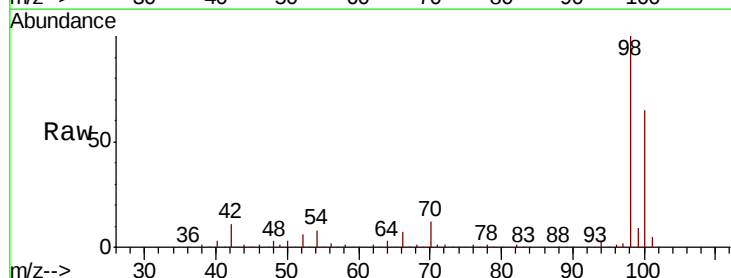


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

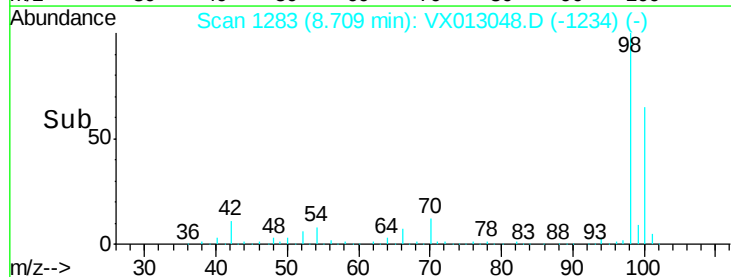
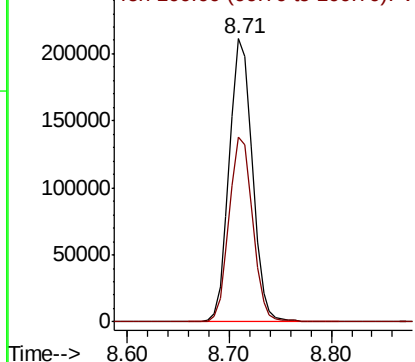


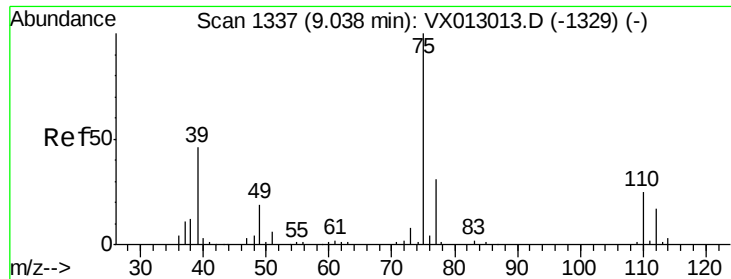
#50
Toluene-d8
Concen: 51.885 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013048.D
Acq: 14 Oct 2019 13:46

Tgt Ion: 98 Resp: 331377
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

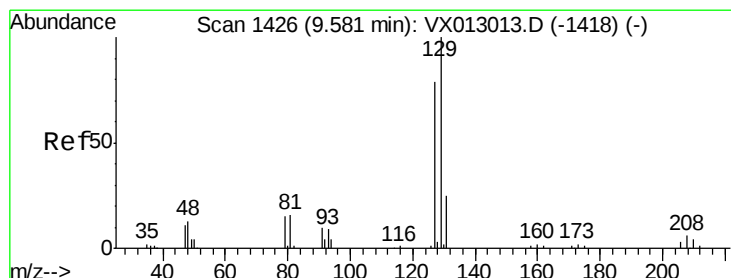
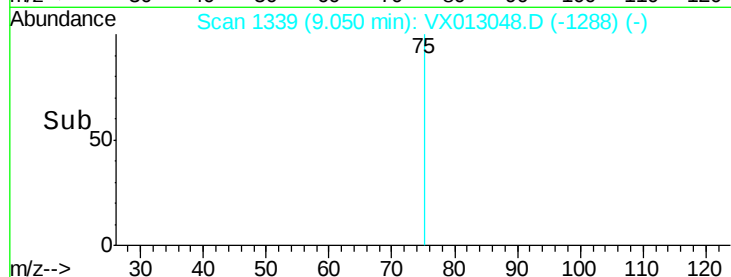
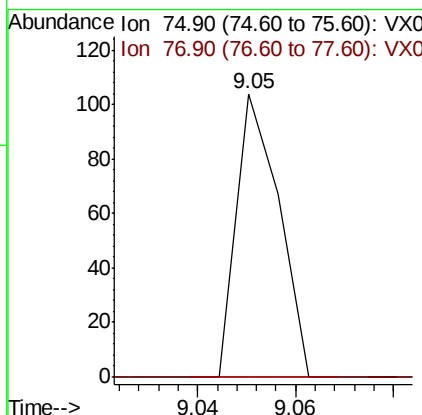
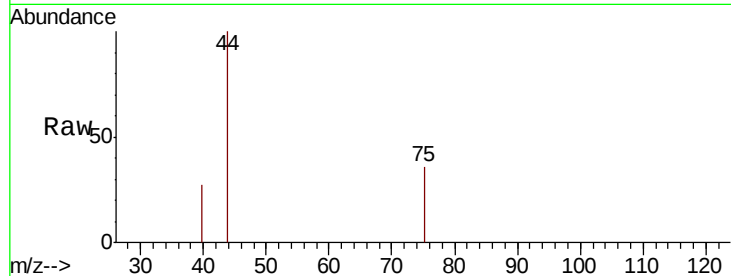




#53
t-1,3-Dichloropropene
Concen: 2.189 ug/l
RT: 9.05 min Scan# 1339
Delta R.T. 0.01 min
Lab File: VX013048.D
Acq: 14 Oct 2019 13:46

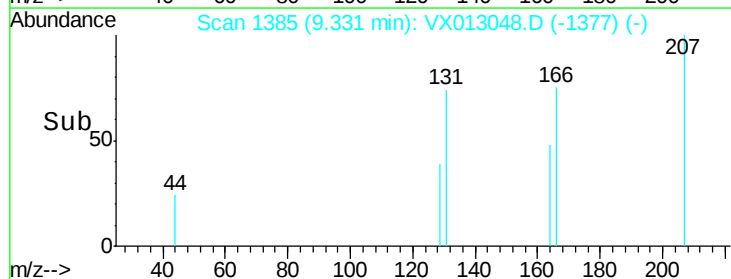
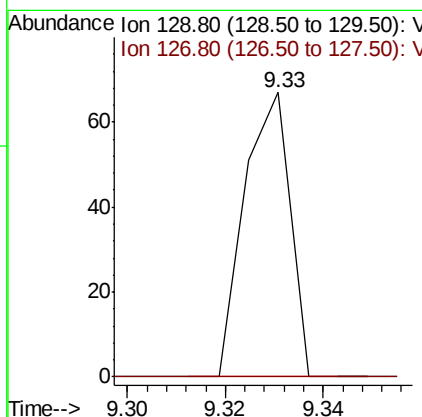
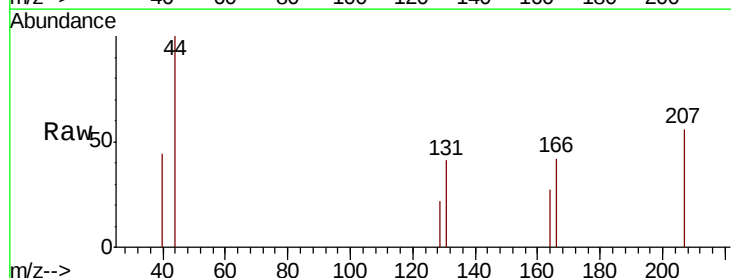
Instrument :
MSVOA_X
ClientSampled :
S49-0559

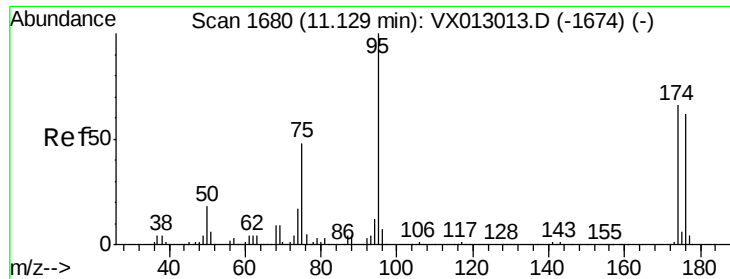
Tot Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#



#60
Dibromochloromethane
Concen: 1.877 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX013048.D
Acq: 14 Oct 2019 13:46

Tgt Ion:129 Resp: 43
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#





#62

4-Bromofluorobenzene

Concen: 42.879 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampled :

S49-0559

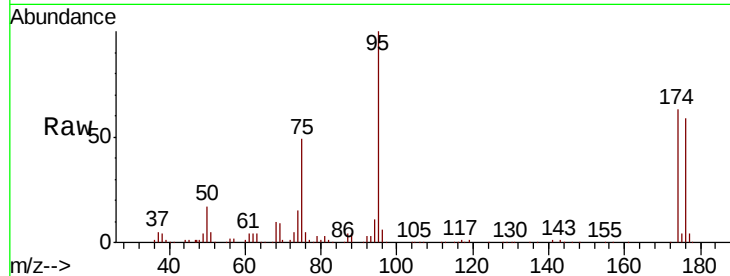
Tot Ion: 95 Resp: 106410

Ion Ratio Lower Upper

95 100

174 73.1 0.0 143.4

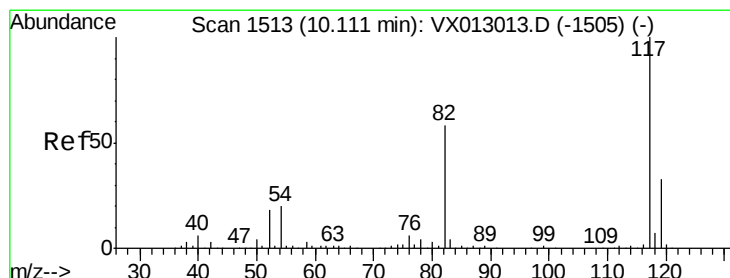
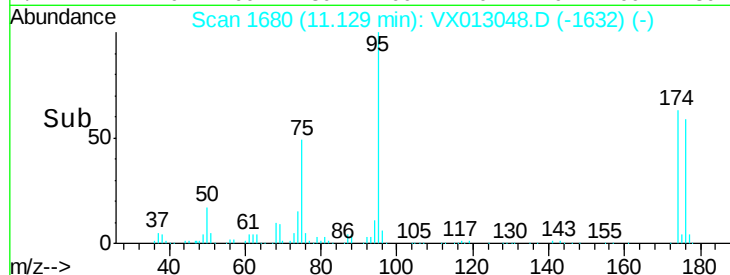
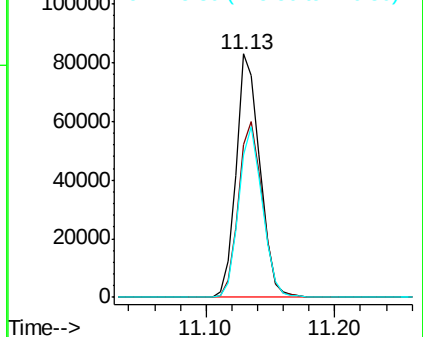
176 69.7 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

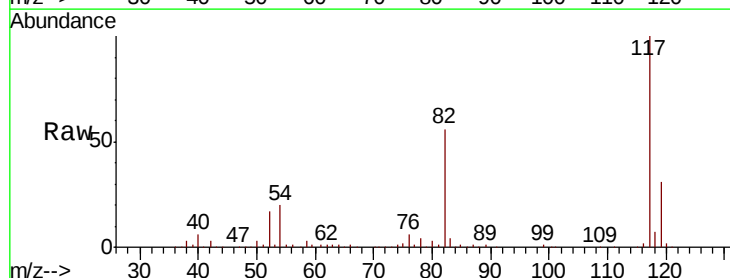
Tgt Ion: 117 Resp: 240574

Ion Ratio Lower Upper

117 100

82 56.3 44.1 66.1

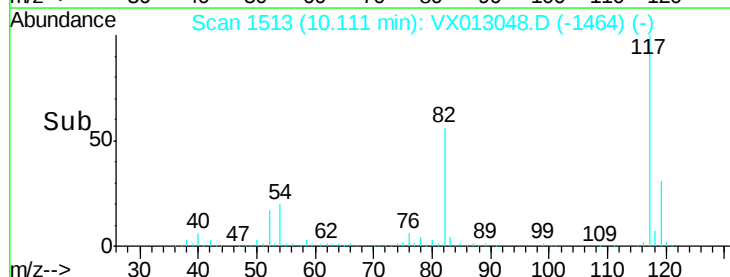
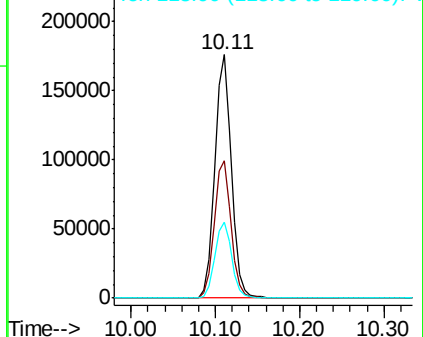
119 31.2 25.8 38.8

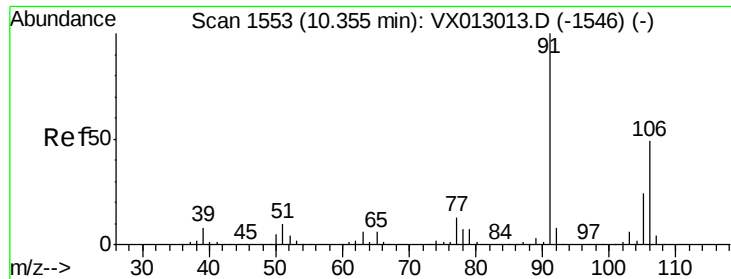


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xvlenes

Concen: 0.230 ug/l

RT: 10.35 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

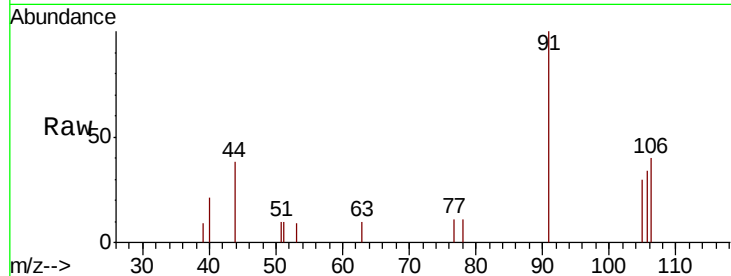
S49-0559

Tot Ion:106 Resp: 730

Ion Ratio Lower Upper

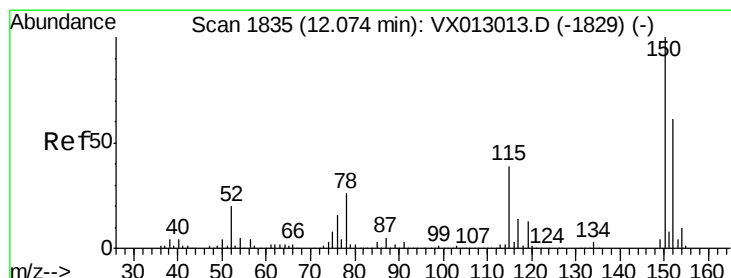
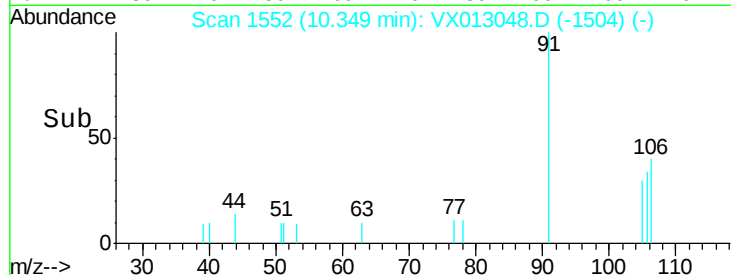
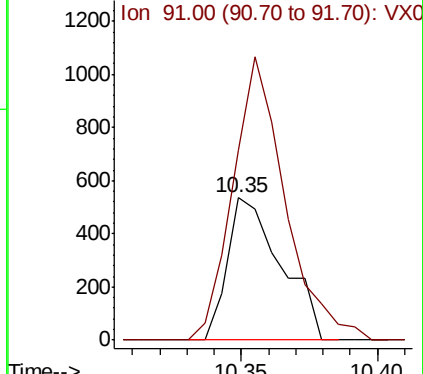
106 100

91 195.6 165.3 247.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

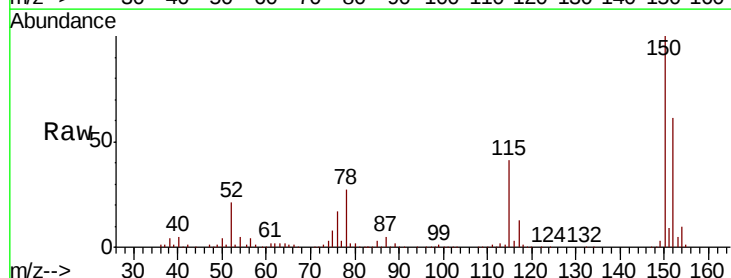
Tgt Ion:152 Resp: 88303

Ion Ratio Lower Upper

152 100

115 66.1 44.5 133.5

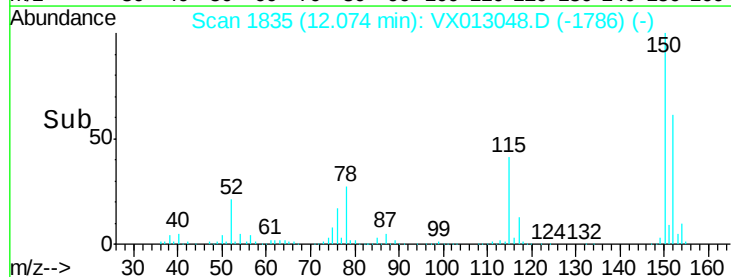
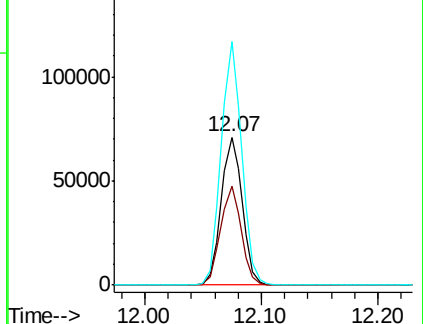
150 161.0 0.0 353.4

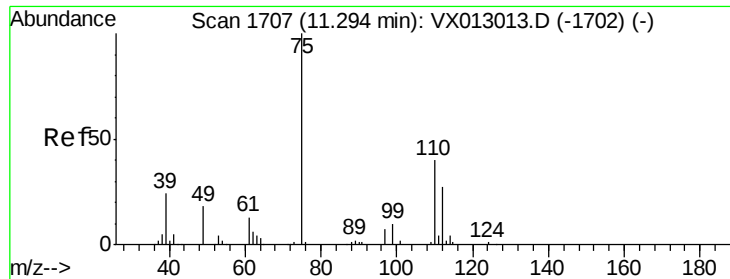


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.185 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

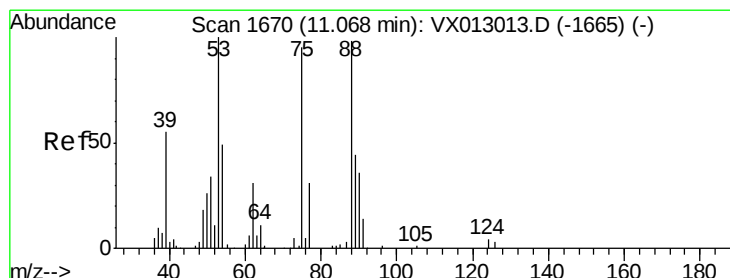
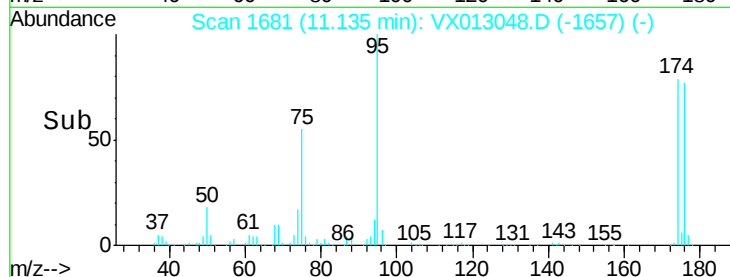
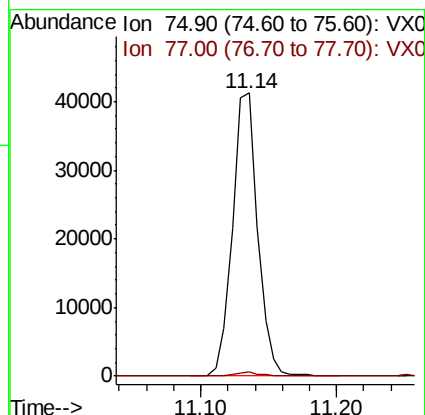
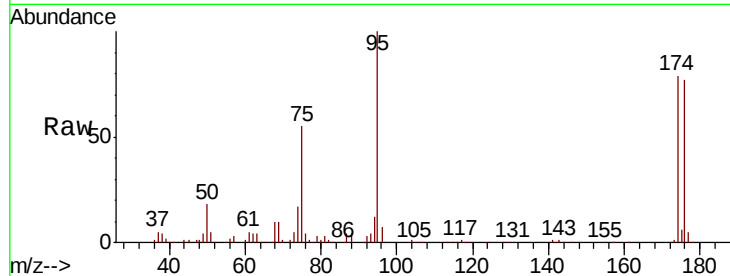
S49-0559

Tot Ion: 75 Resp: 53243

Ion Ratio Lower Upper

75 100

77 1.3 22.9 68.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.279 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

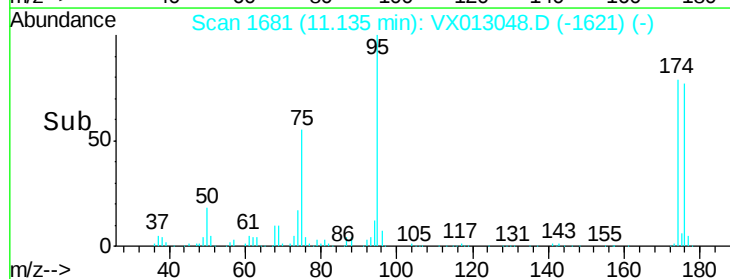
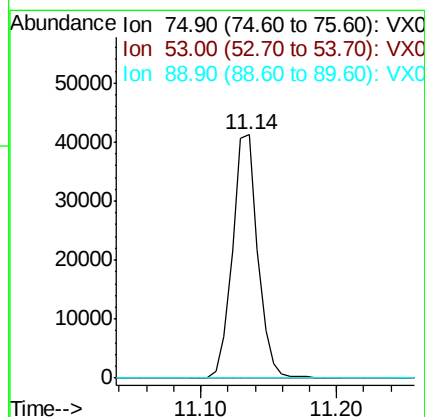
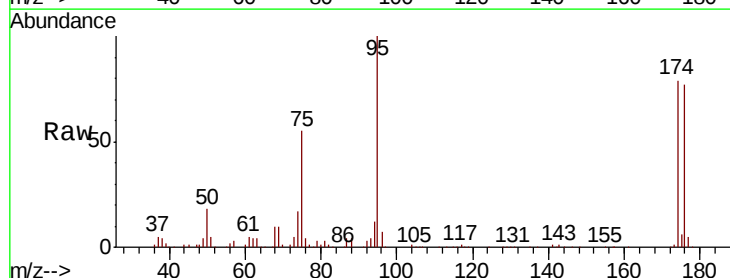
Tgt Ion: 75 Resp: 53243

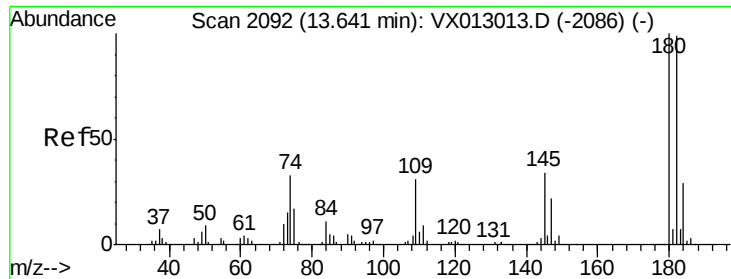
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.283 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX013048.D

Acq: 14 Oct 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

S49-0559

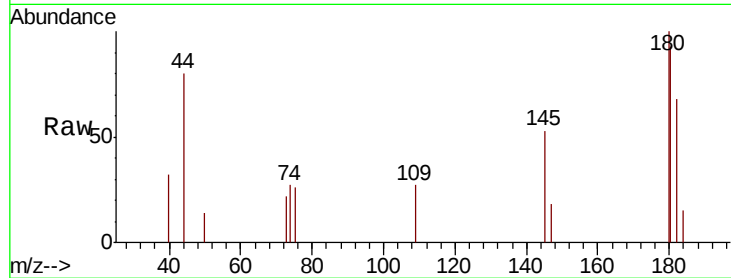
Tot Ion:180 Resp: 493

Ion Ratio Lower Upper

180 100

182 81.7 46.8 140.4

145 27.6 16.2 48.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

