

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061220\
 Data File : VX016739.D
 Acq On : 12 Jun 2020 19:20
 Operator : JC/SP
 Sample : L3005-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:33:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	202672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	325113	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	341279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	176055	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	123367	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.47	113	102444	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
50) Toluene-d8	8.70	98	398648	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.12	95	160444	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	

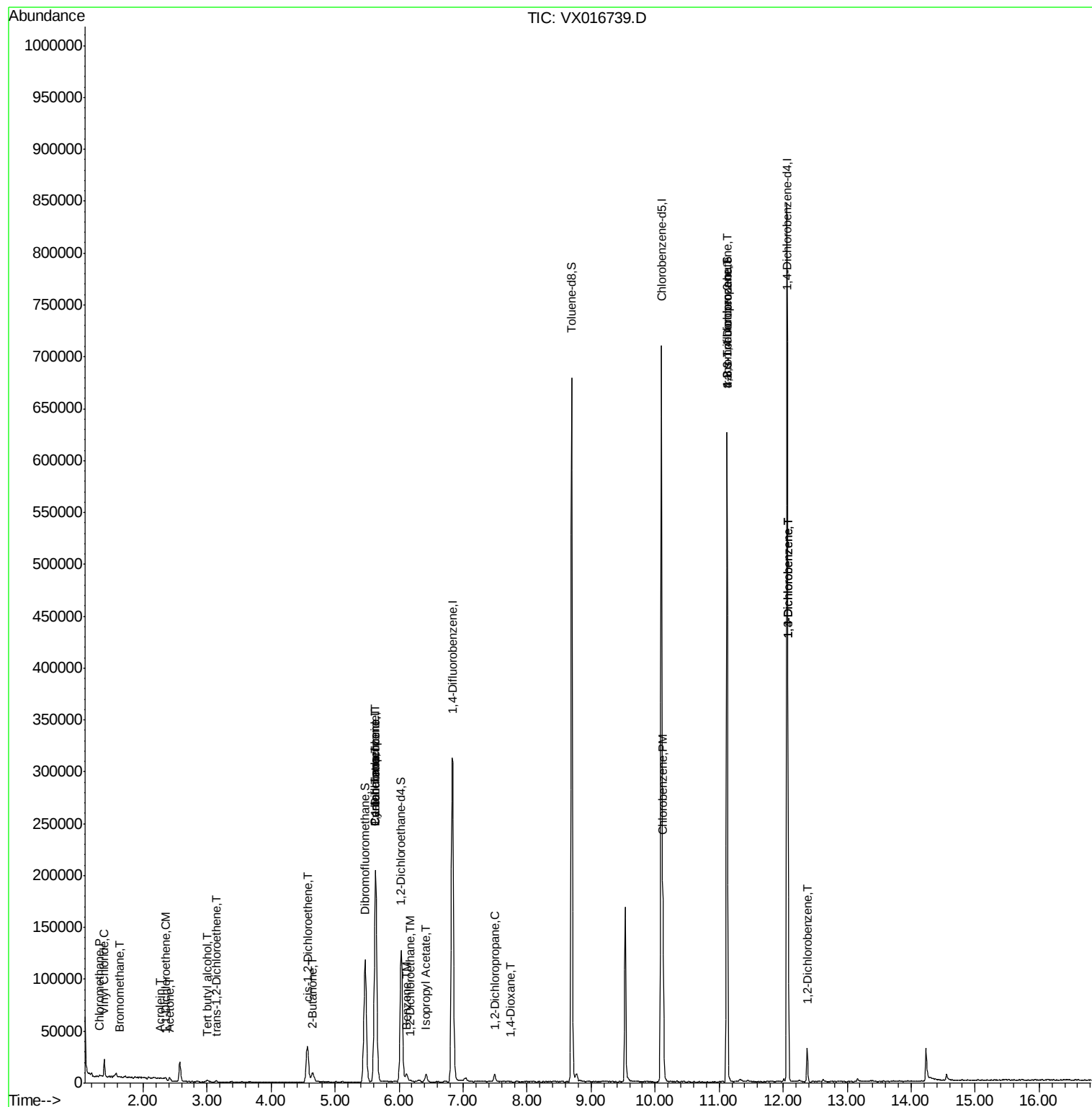
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	570	0.236	ug/l	94
4) Vinyl Chloride	1.39	62	9395	3.686	ug/l	100
5) Bromomethane	1.64	94	281	0.227	ug/l #	3
11) Tert butyl alcohol	3.01	59	1638	2.538	ug/l #	89
12) 1,1-Dichloroethene	2.35	96	764	0.392	ug/l #	69
13) Acrolein	2.26	56	188	0.685	ug/l #	8
16) Acetone	2.42	43	3621	3.284	ug/l	99
21) trans-1,2-Dichloroethene	3.14	96	713	0.331	ug/l #	55
25) 2-Butanone	4.64	43	430	0.230	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	23200	9.297	ug/l	86
31) Cyclohexane	5.63	56	3917	1.120	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	13962	4.536	ug/l #	51
38) Carbon Tetrachloride	5.64	117	19753	6.106	ug/l #	14
40) Benzene	6.12	78	8630	0.941	ug/l	95
42) 1,2-Dichloroethane	6.17	62	713	0.219	ug/l #	73
43) Isopropyl Acetate	6.43	43	1269	0.220	ug/l #	67
45) 1,2-Dichloropropane	7.49	63	2826	1.211	ug/l #	87
49) 1,4-Dioxane	7.73	88	20	0.310	ug/l #	1
65) Chlorobenzene	10.12	112	70371	10.114	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	78037	20.166	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	78037	49.605	ug/l #	14
87) 1,3-Dichlorobenzene	12.08	146	31628	5.706	ug/l	96
88) 1,4-Dichlorobenzene	12.08	146	31628	5.579	ug/l	95
91) 1,2-Dichlorobenzene	12.38	146	10709	1.994	ug/l	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

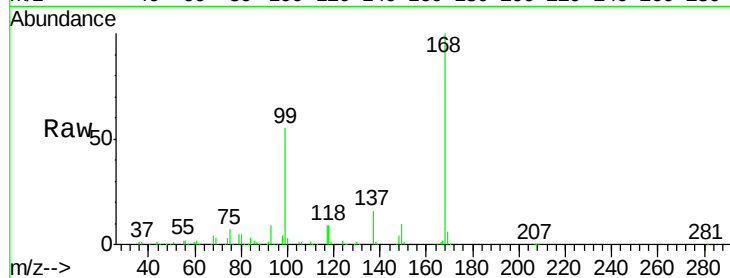
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 202672

Ion Ratio Lower Upper

168 100

99 54.8 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

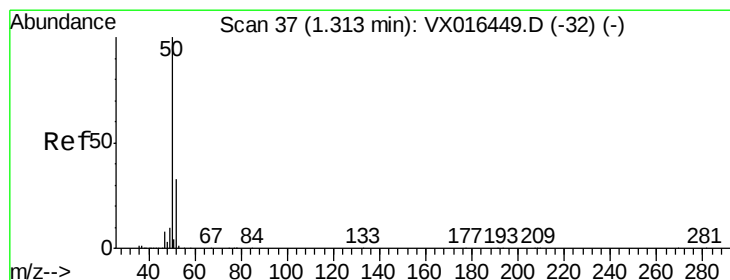
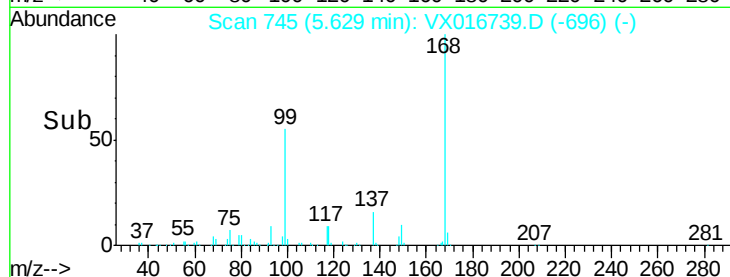
40000

20000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.236 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016739.D

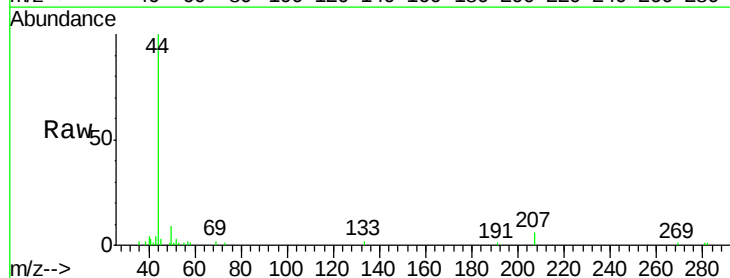
Acq: 12 Jun 2020 19:20

Tgt Ion: 50 Resp: 570

Ion Ratio Lower Upper

50 100

52 29.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

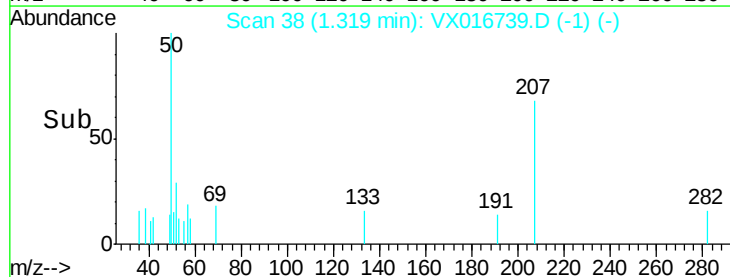
200

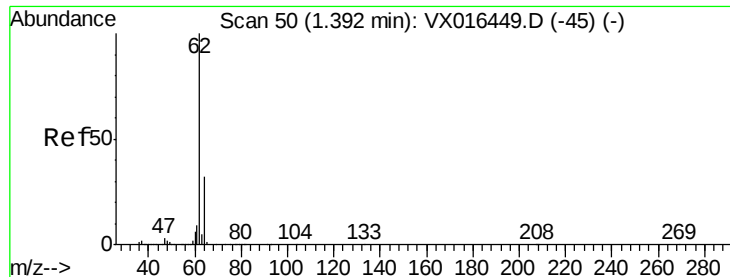
100

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 3.686 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

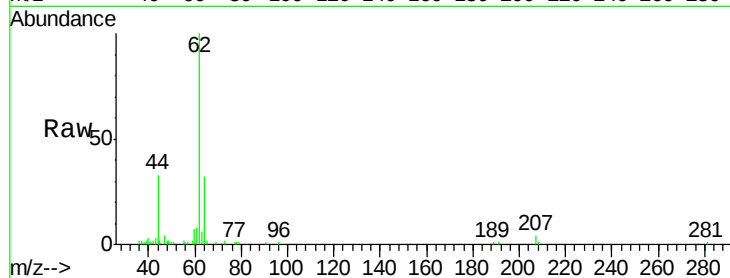
ClientSampled :

Tot Ion: 62 Resp: 9395

Ion Ratio Lower Upper

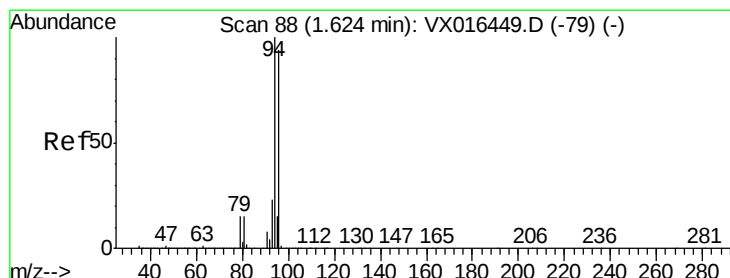
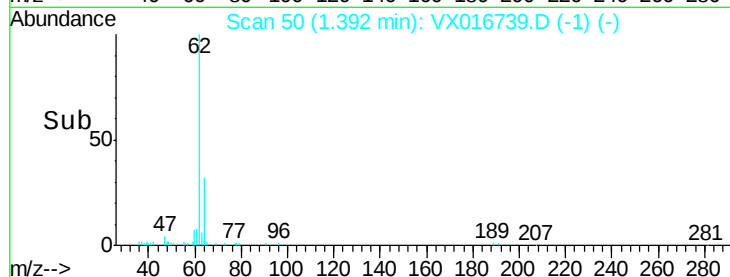
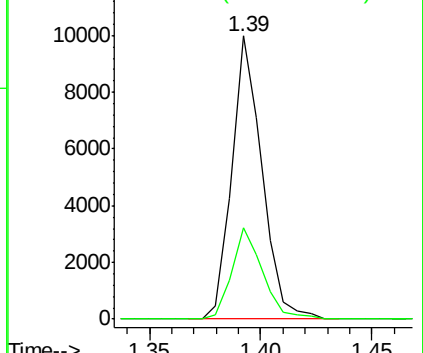
62 100

64 32.3 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016739.D

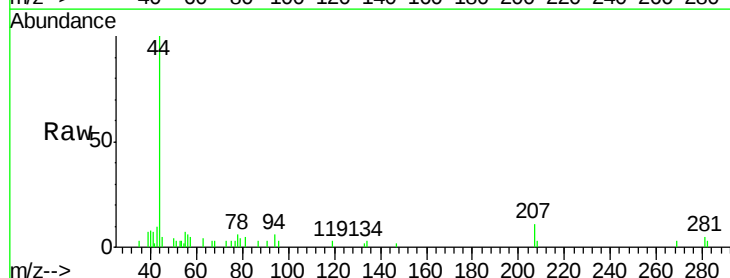
Acq: 12 Jun 2020 19:20

Tgt Ion: 94 Resp: 281

Ion Ratio Lower Upper

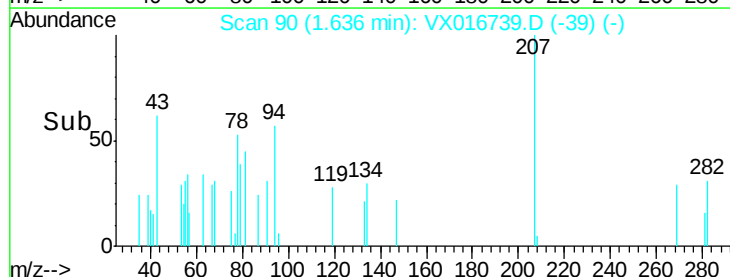
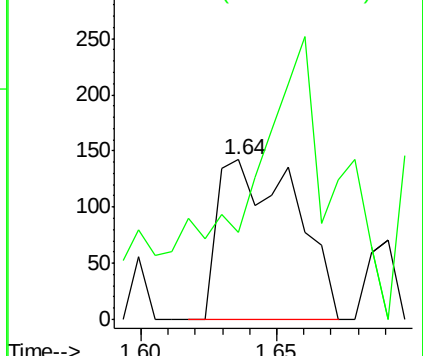
94 100

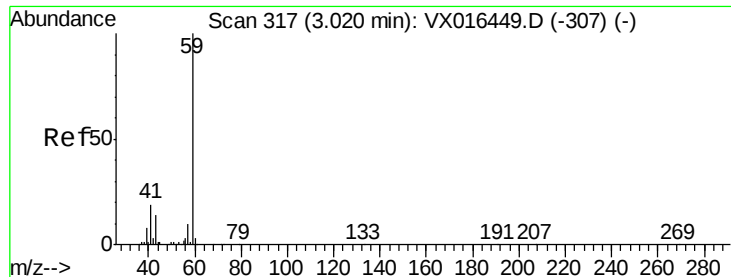
96 0.0 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

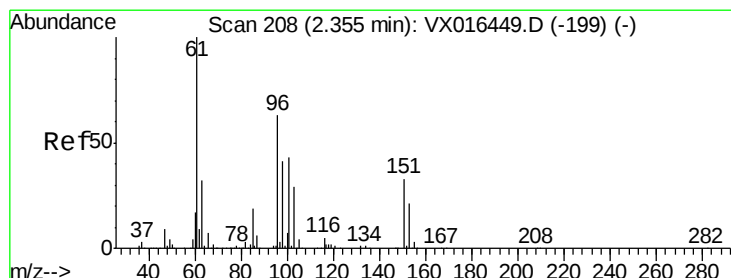
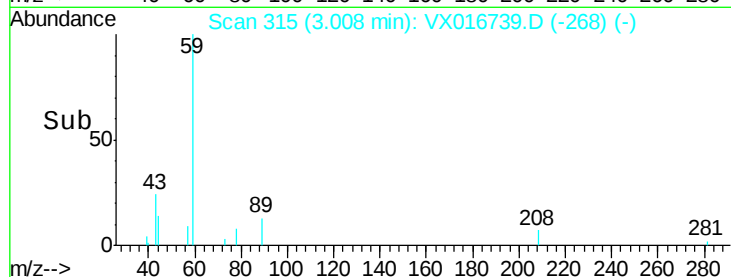
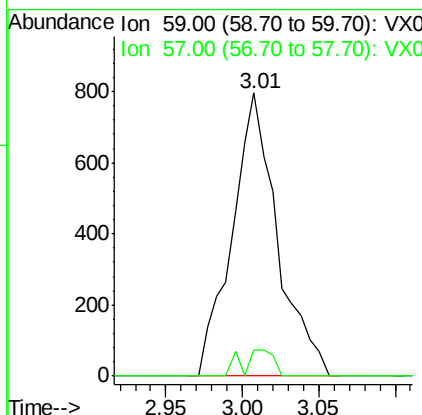
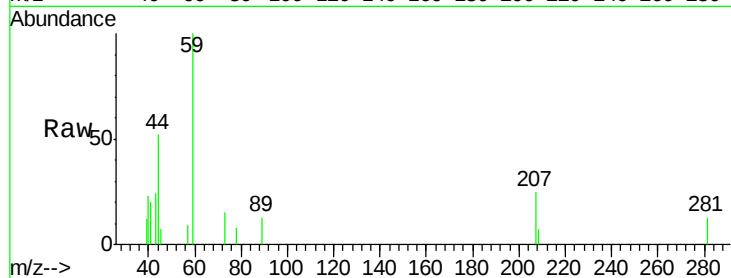




#11
Tert butyl alcohol
Concen: 2.538 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

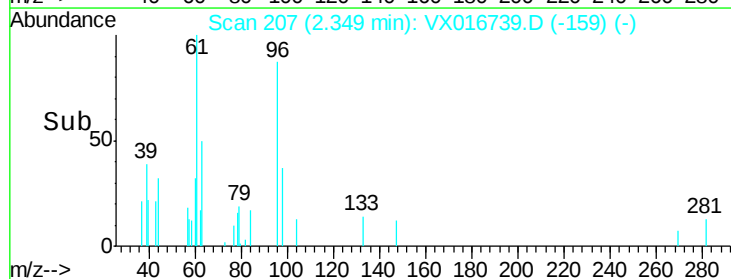
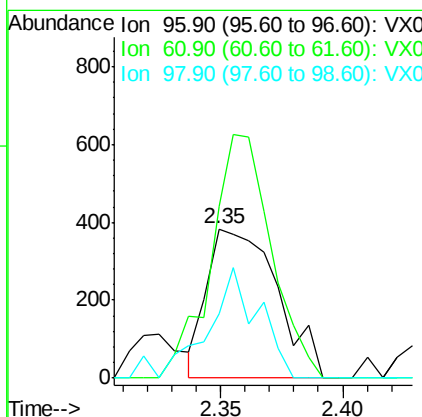
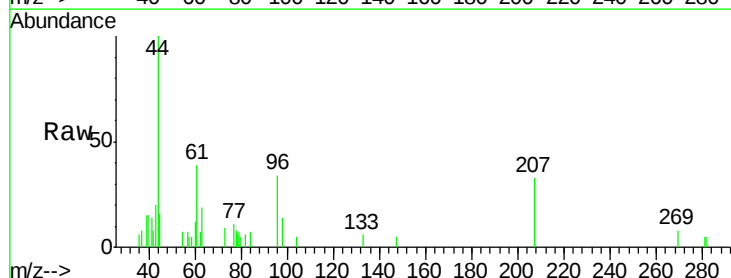
Instrument :
MSVOA_X
ClientSampleId :

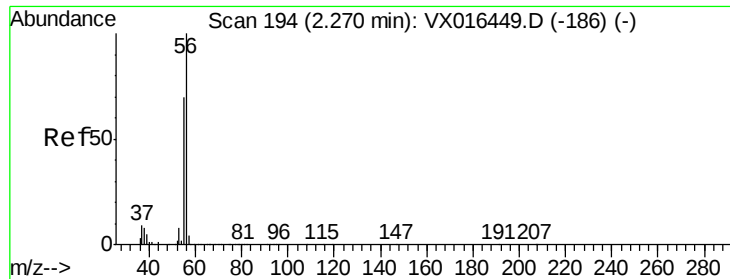
Tot Ion: 59 Resp: 1638
Ion Ratio Lower Upper
59 100
57 6.2 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 0.392 ug/l
RT: 2.35 min Scan# 207
Delta R.T. -0.01 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

Tgt Ion: 96 Resp: 764
Ion Ratio Lower Upper
96 100
61 114.8 126.6 189.8#
98 43.0 51.3 76.9#





#13

Acrolein

Concen: 0.685 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

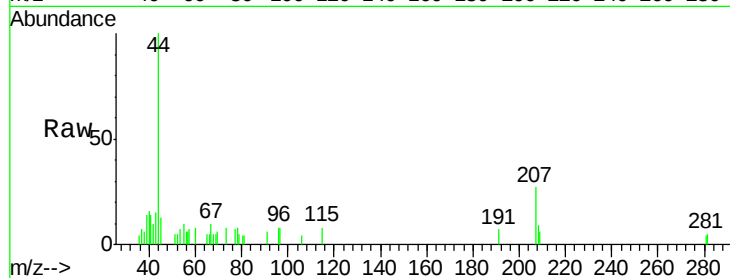
ClientSampled :

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

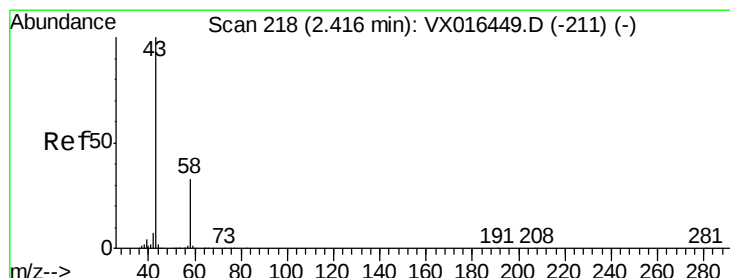
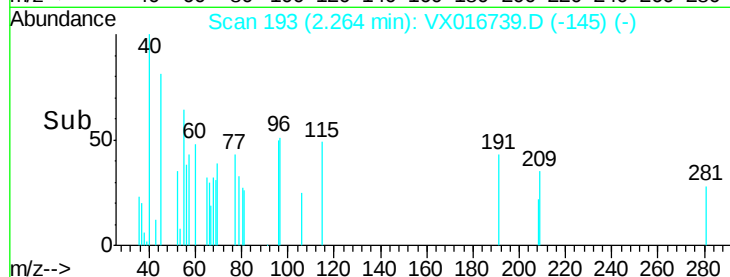
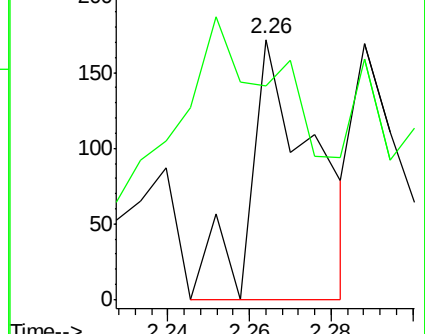
56 100

55 150.0 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.284 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016739.D

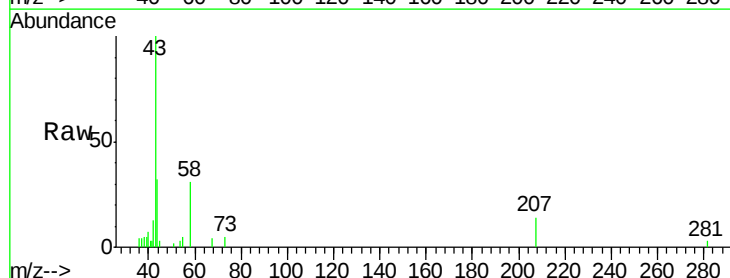
Acq: 12 Jun 2020 19:20

Tgt Ion: 43 Resp: 3621

Ion Ratio Lower Upper

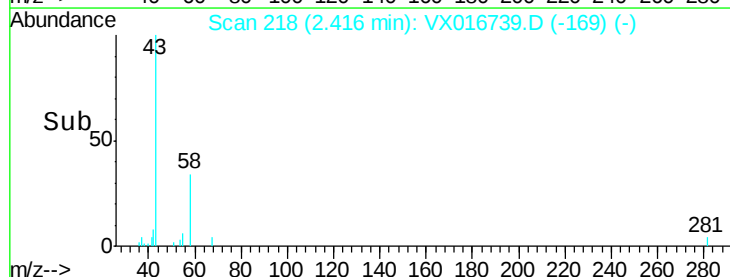
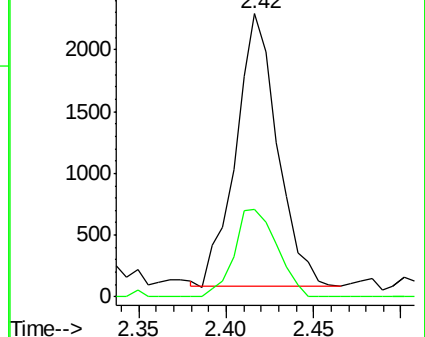
43 100

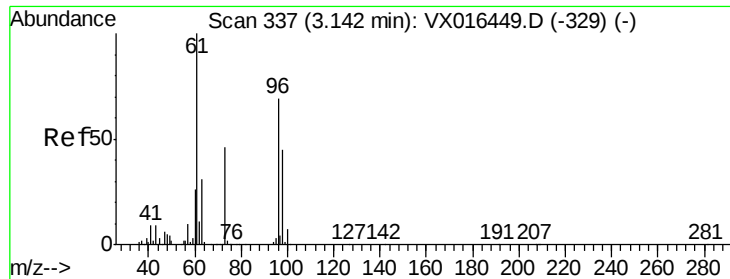
58 32.0 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.331 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

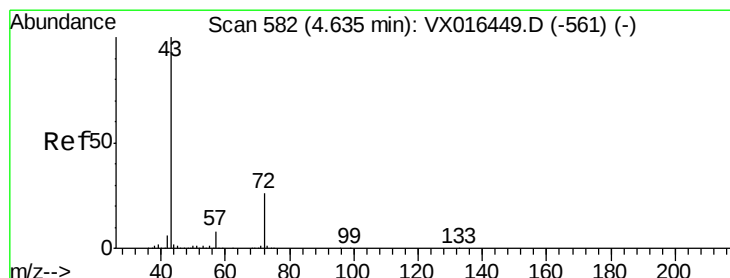
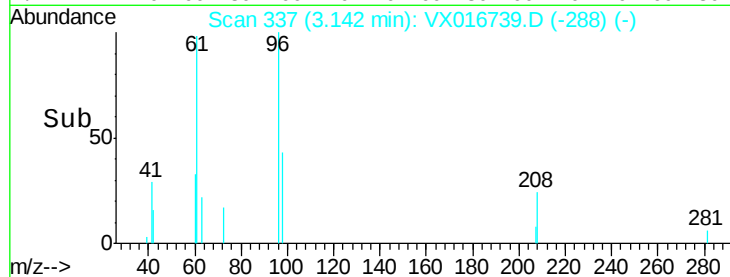
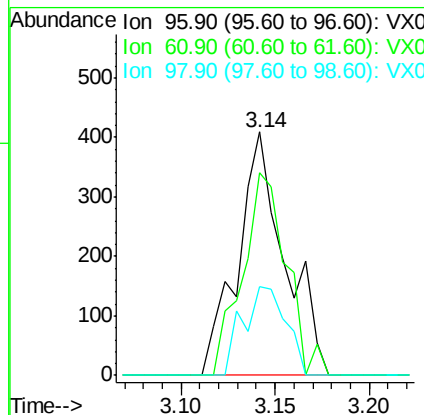
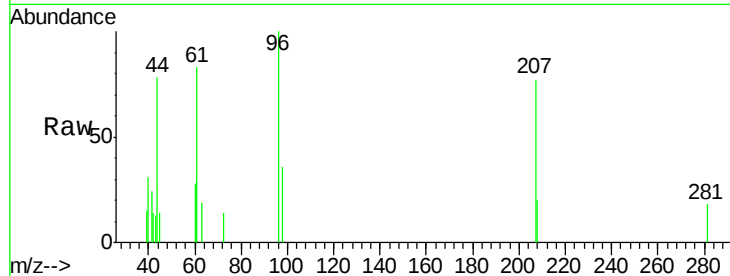
Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 713

Ion	Ratio	Lower	Upper
96	100		
61	83.4	115.3	172.9#
98	36.4	51.9	77.9#



#25

2-Butanone

Concen: 0.230 ug/l

RT: 4.64 min Scan# 583

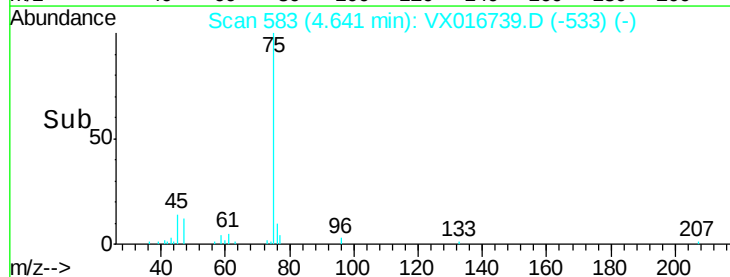
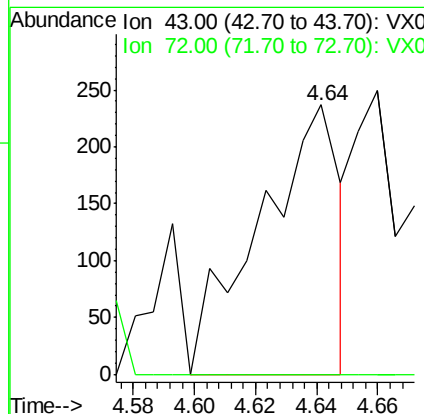
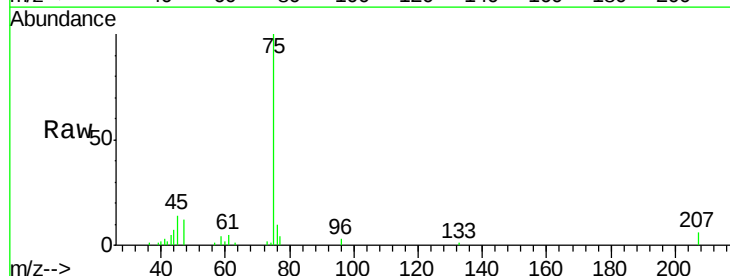
Delta R.T. 0.01 min

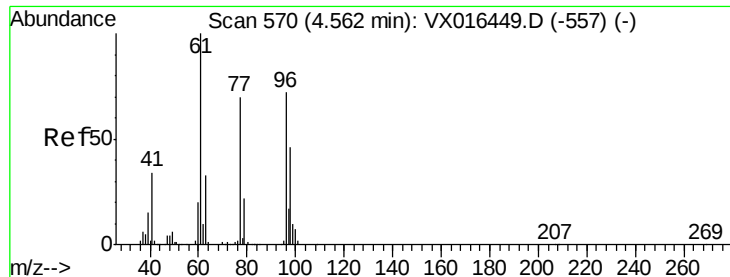
Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Tgt Ion: 43 Resp: 430

Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.0	31.6#



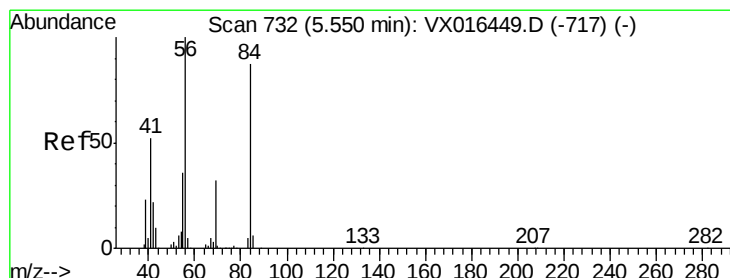
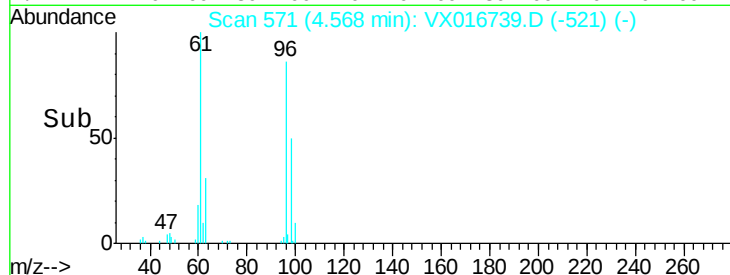
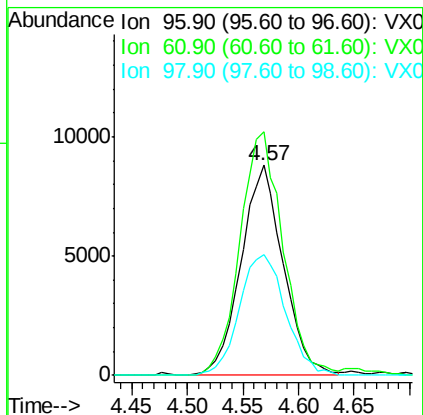
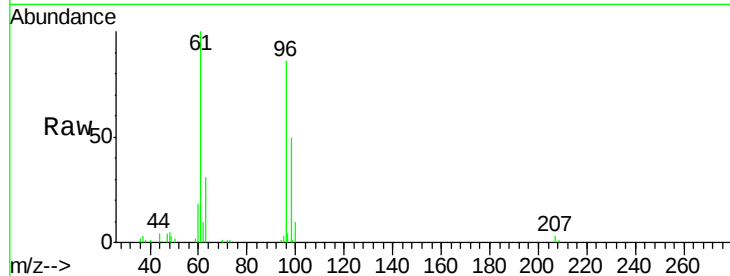


#27

cis-1,2-Dichloroethene
Concen: 9.297 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

Instrument :
MSVOA_X
ClientSampled :

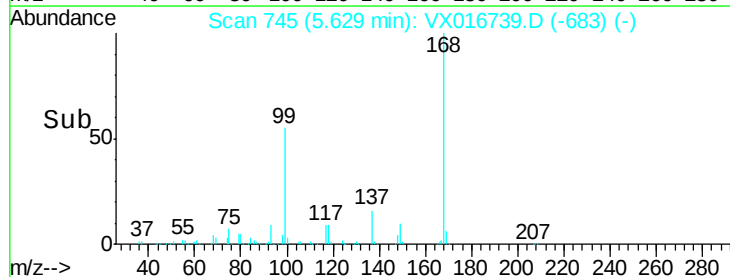
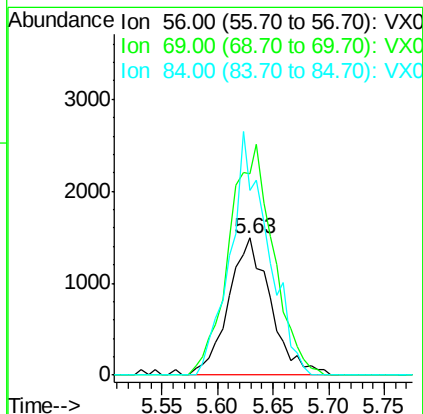
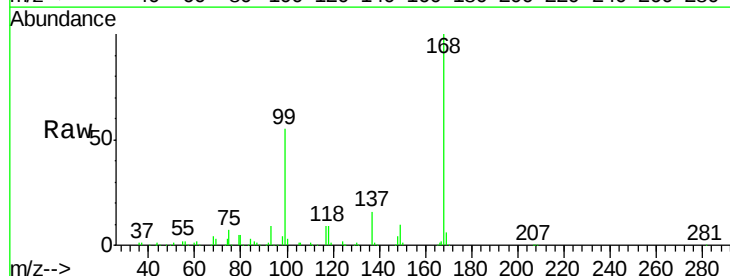
Tot Ion	96	Resp	23200
Ion	Ratio	Lower	Upper
96	100		
61	118.4	0.0	284.6
98	62.8	0.0	127.2

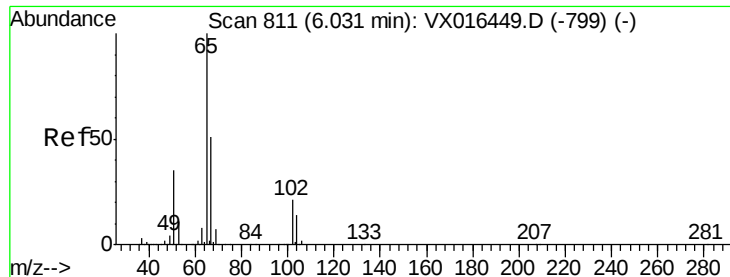


#31

Cyclohexane
Concen: 1.120 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

Tgt Ion	56	Resp	3917
Ion	Ratio	Lower	Upper
56	100		
69	147.6	25.7	38.5#
84	134.8	70.0	105.0#

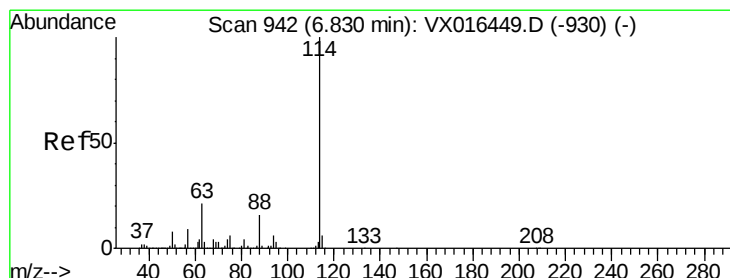
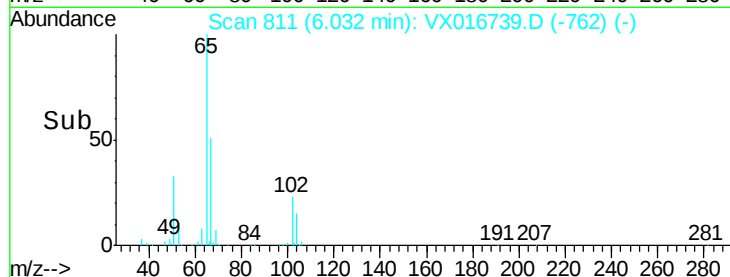
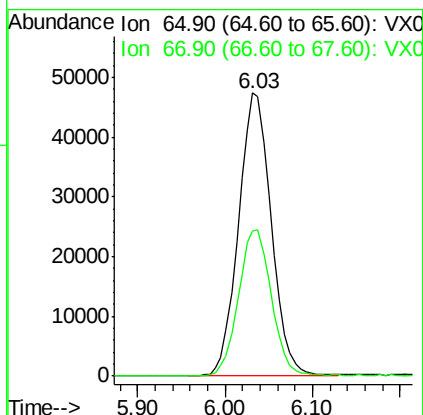
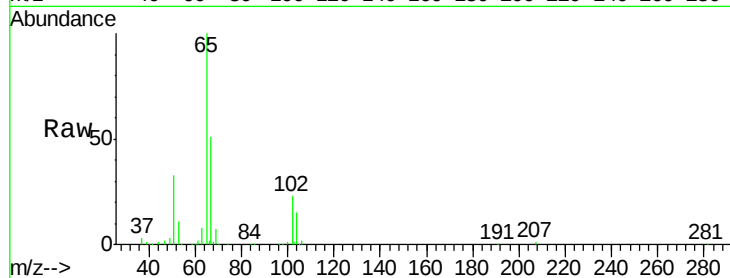




#33
 1,2-Dichloroethane-d4
 Concen: 49.015 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016739.D
 Acq: 12 Jun 2020 19:20

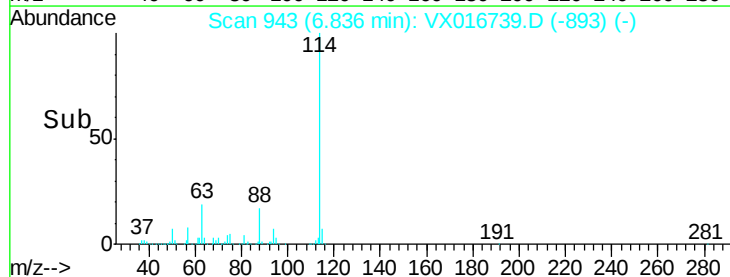
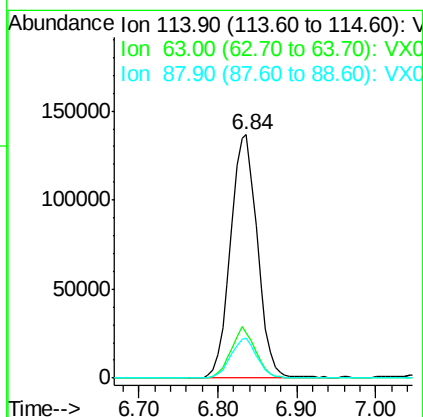
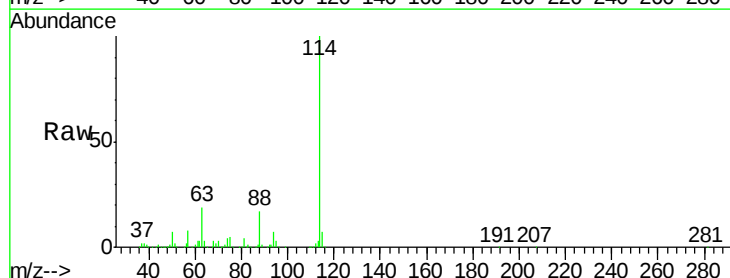
Instrument :
 MSVOA_X
 ClientSampleId :

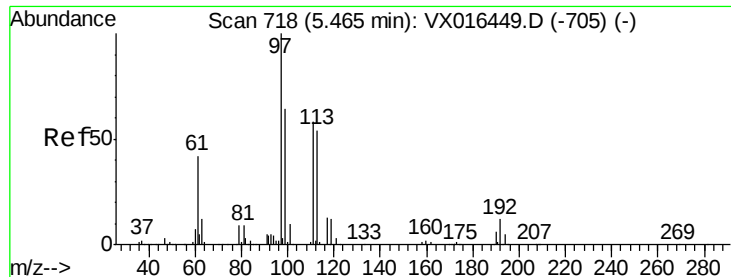
Tot Ion: 65 Resp: 123367
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016739.D
 Acq: 12 Jun 2020 19:20

Tgt Ion: 114 Resp: 325113
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 42.6
 88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.174 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

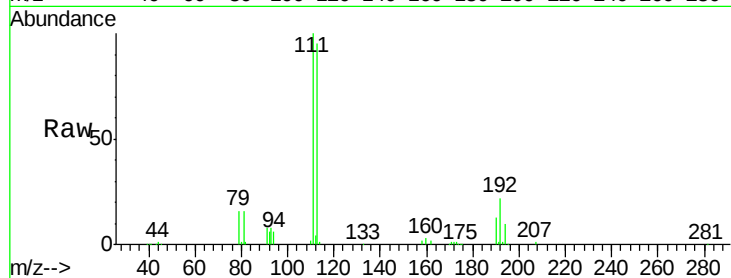
Tot Ion:113 Resp: 102444

Ion Ratio Lower Upper

113 100

111 102.0 83.0 124.6

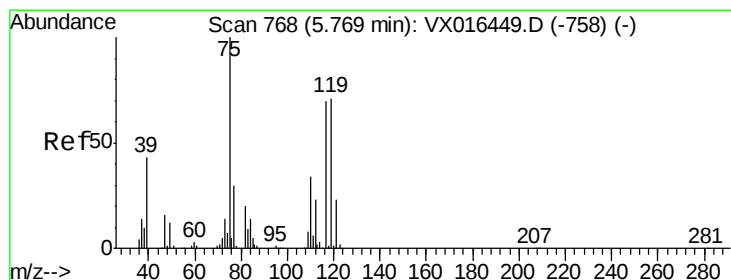
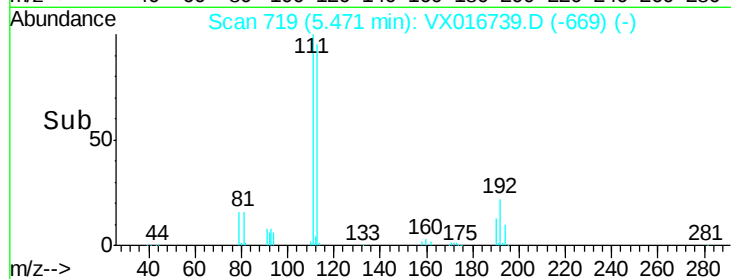
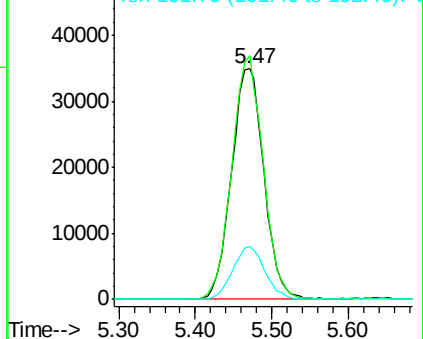
192 22.7 17.7 26.5



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: 4.536 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

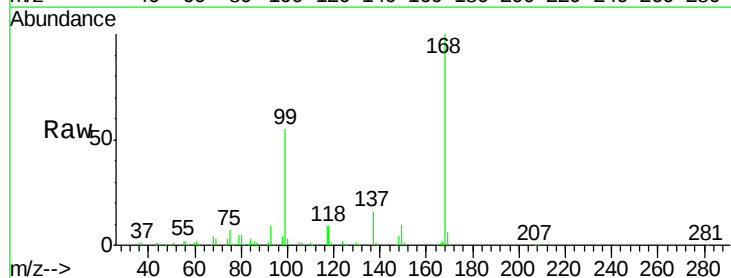
Tgt Ion: 75 Resp: 13962

Ion Ratio Lower Upper

75 100

110 10.3 17.4 52.3#

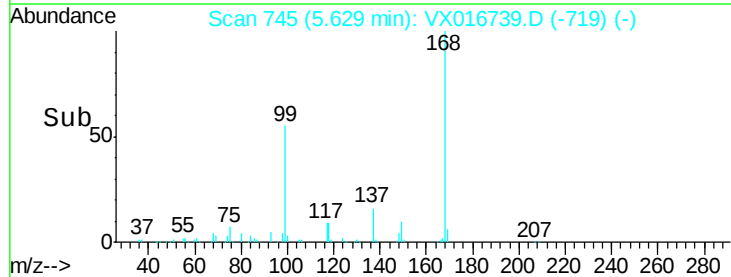
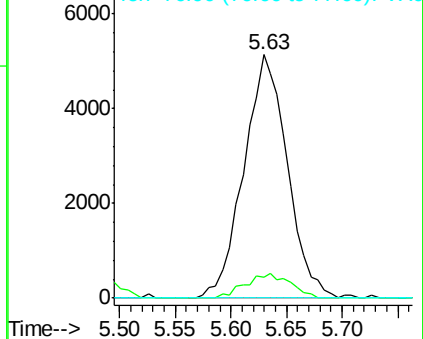
77 0.0 24.2 36.4#

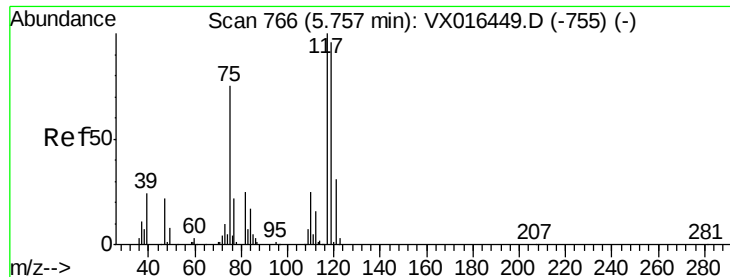


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.106 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

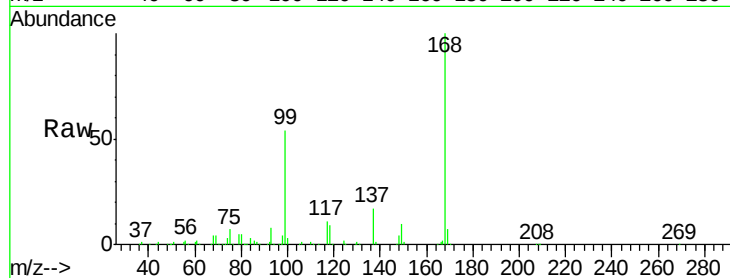
Tot Ion:117 Resp: 19753

Ion Ratio Lower Upper

117 100

119 2.6 76.3 114.5#

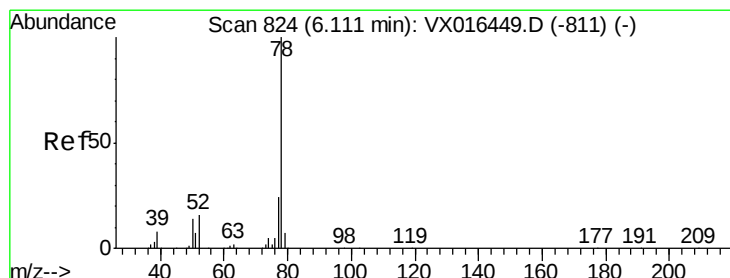
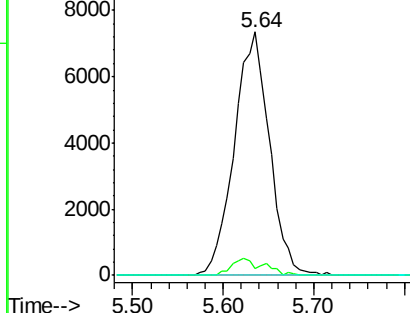
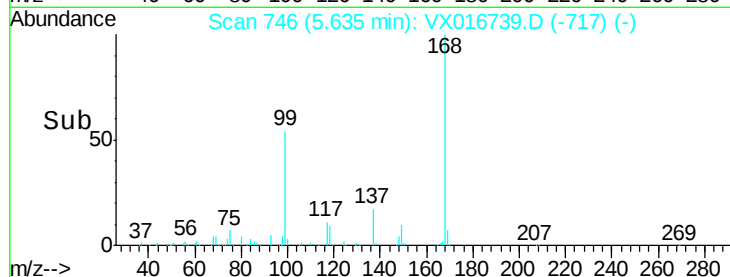
121 0.0 24.6 37.0#



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



#40

Benzene

Concen: 0.941 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX016739.D

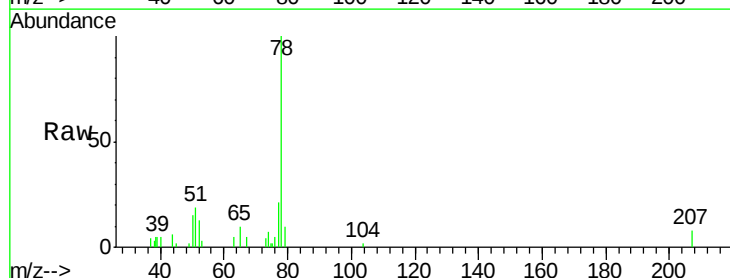
Acq: 12 Jun 2020 19:20

Tgt Ion: 78 Resp: 8630

Ion Ratio Lower Upper

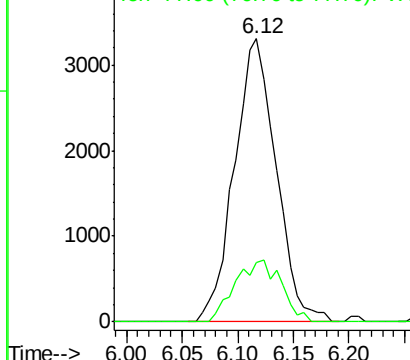
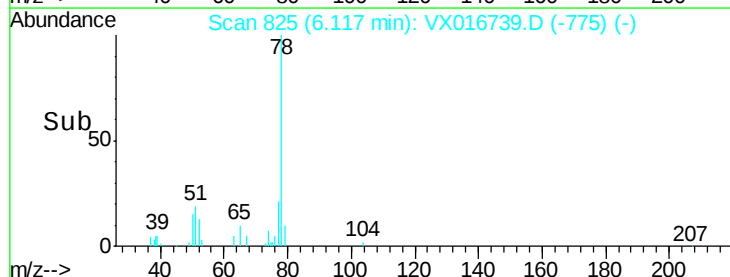
78 100

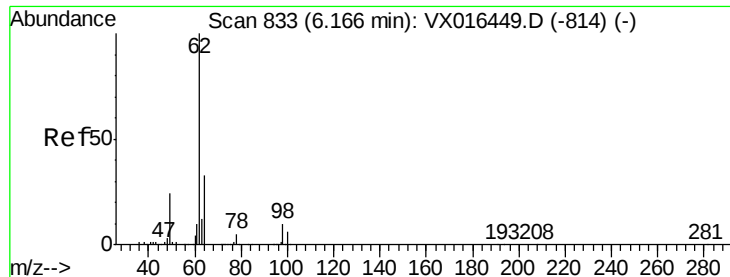
77 21.1 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.219 ug/l

RT: 6.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

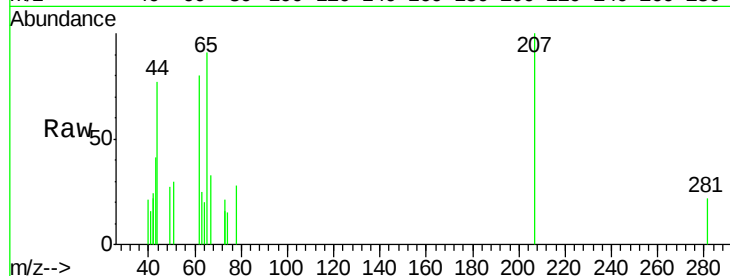
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 62 Resp: 713

Ion Ratio Lower Upper

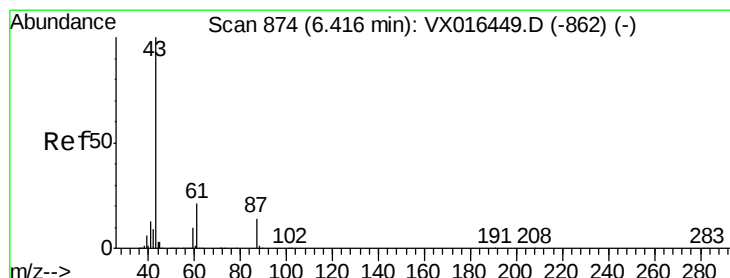
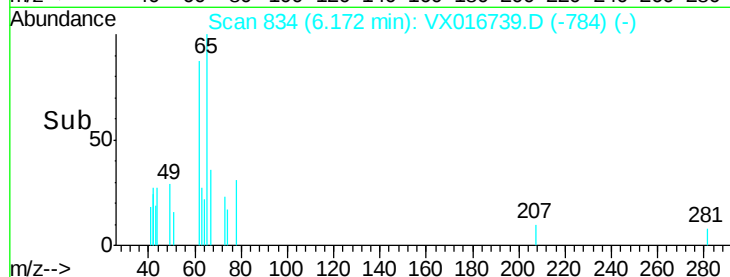
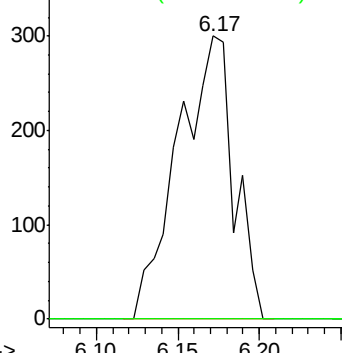
62 100

98 0.0 0.0 19.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#43

Isopropyl Acetate

Concen: 0.220 ug/l

RT: 6.43 min Scan# 876

Delta R.T. 0.01 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

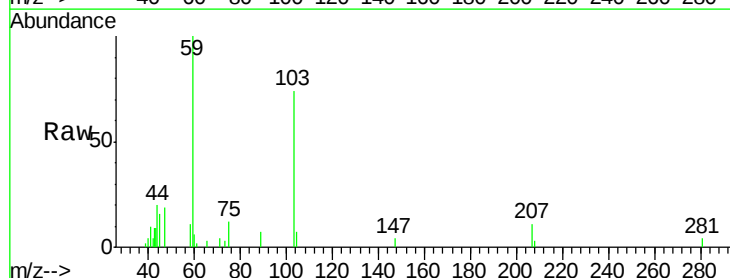
Tgt Ion: 43 Resp: 1269

Ion Ratio Lower Upper

43 100

61 5.9 16.8 25.2#

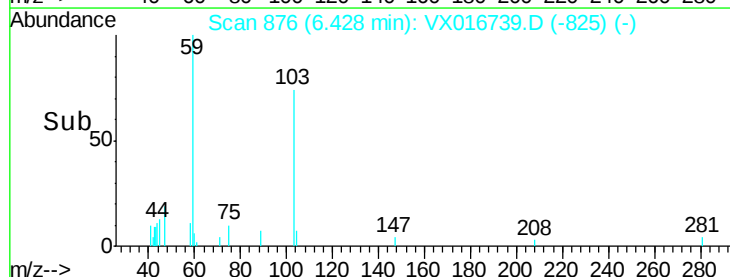
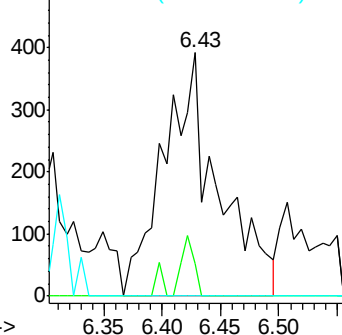
87 0.0 11.2 16.8#

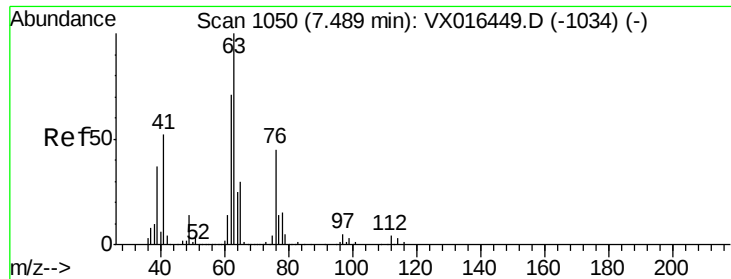


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#45

1,2-Dichloropropane

Concen: 1.211 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

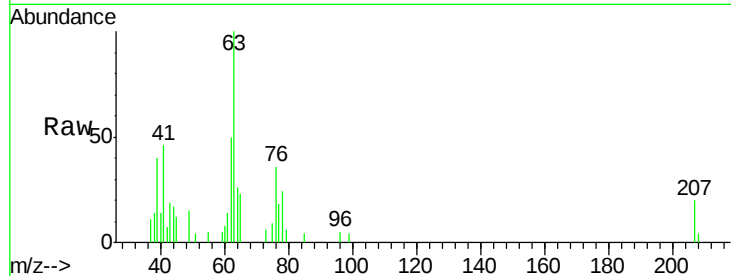
ClientSampled :

Tot Ion: 63 Resp: 2826

Ion Ratio Lower Upper

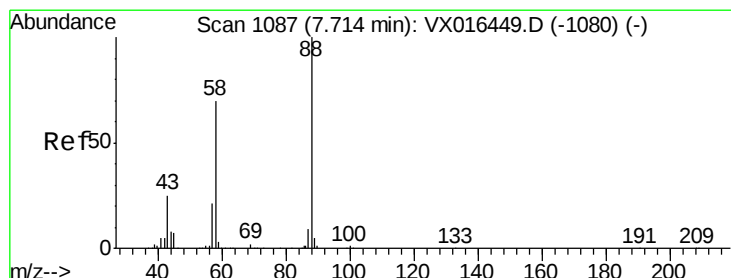
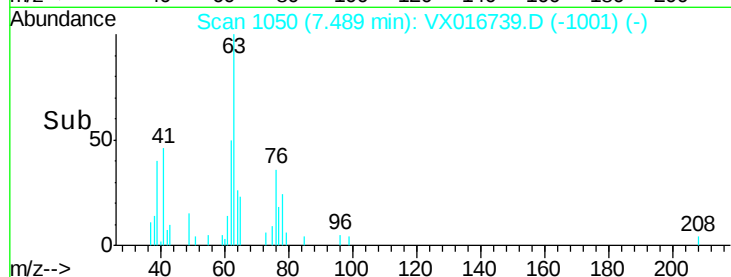
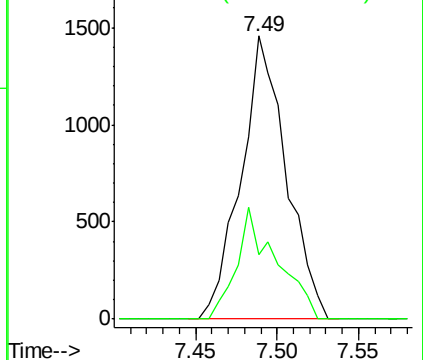
63 100

65 22.9 24.2 36.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#49

1,4-Dioxane

Concen: 0.310 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

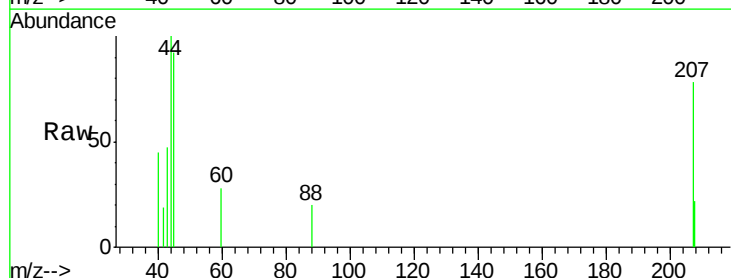
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 635.0 24.2 36.4#

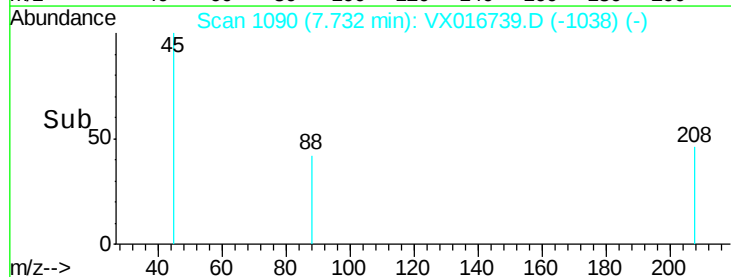
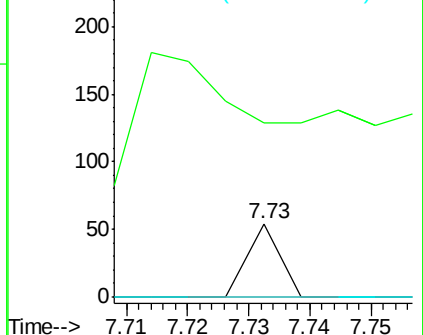
58 0.0 56.5 84.7#

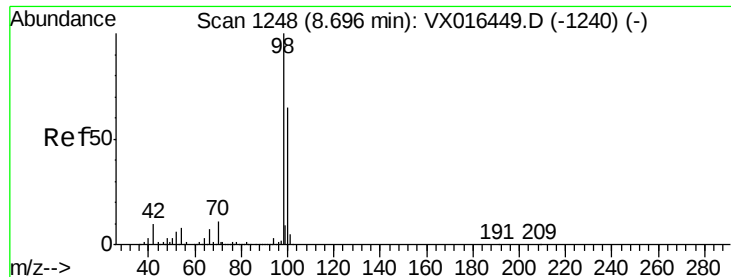


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.163 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

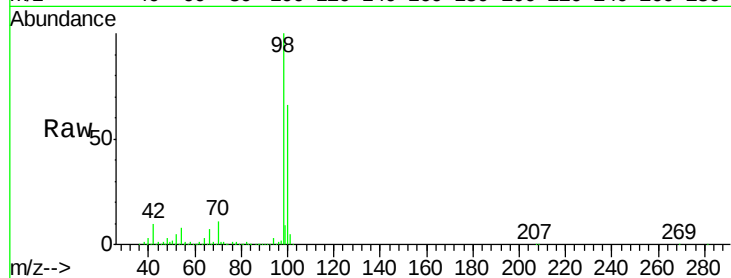
ClientSampleId :

Tot Ion: 98 Resp: 398648

Ion Ratio Lower Upper

98 100

100 67.0 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

250000

200000

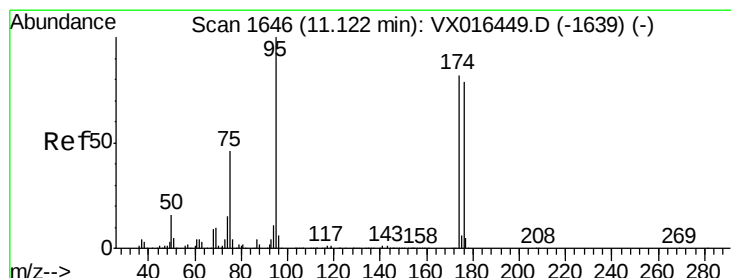
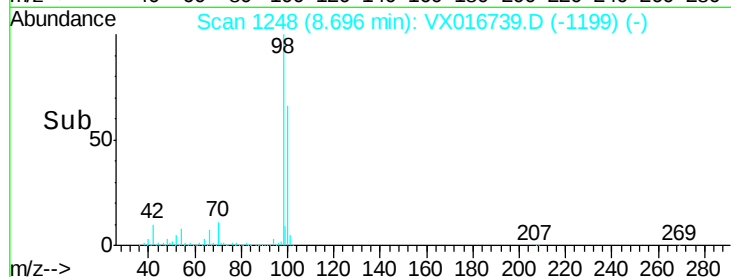
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75



#62

4-Bromofluorobenzene

Concen: 53.291 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

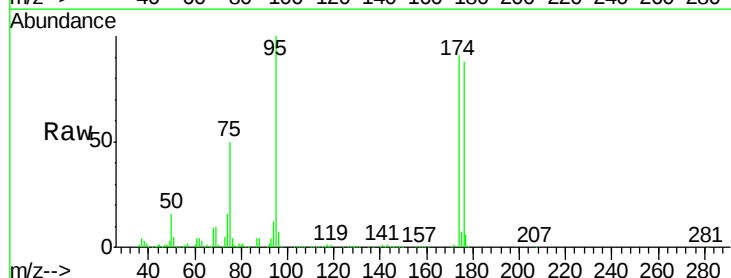
Tgt Ion: 95 Resp: 160444

Ion Ratio Lower Upper

95 100

174 88.5 0.0 163.0

176 85.1 0.0 156.8



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

11.12

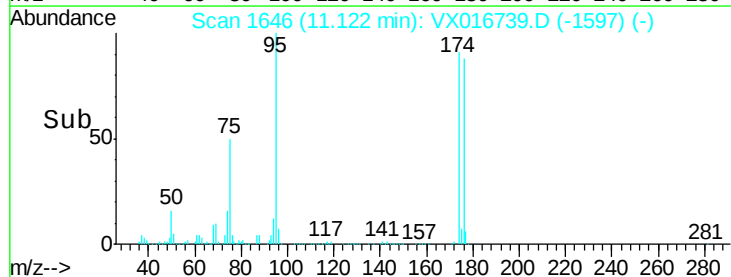
150000

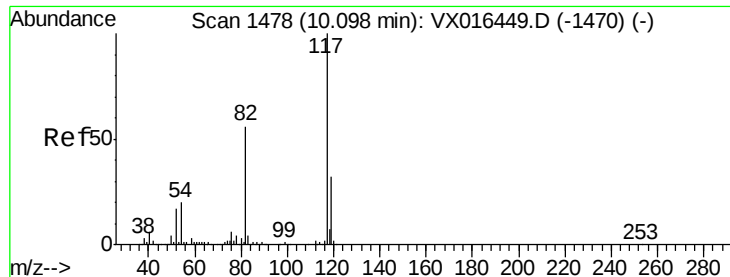
100000

50000

0

Time--> 11.10 11.20

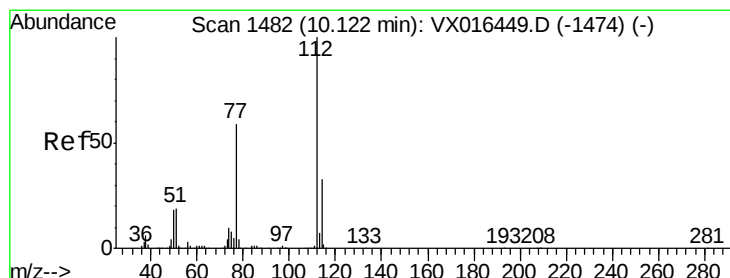
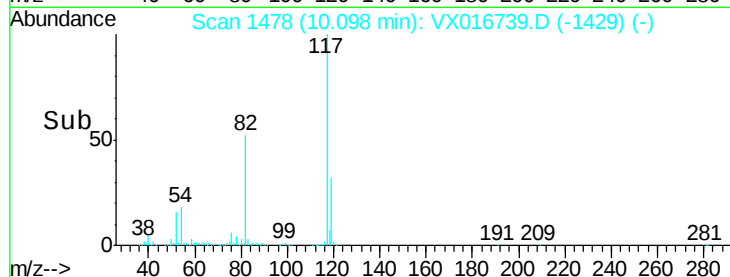
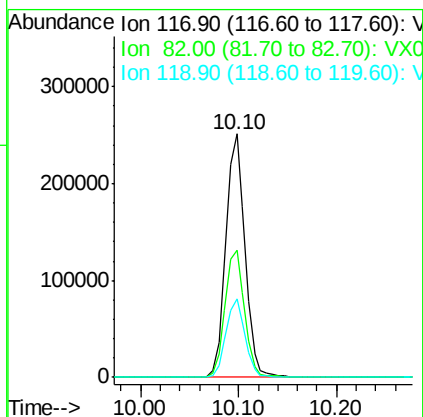
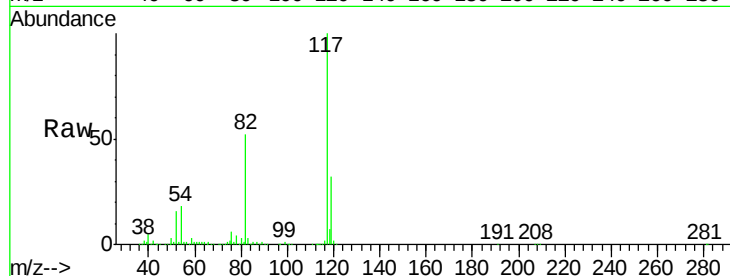




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

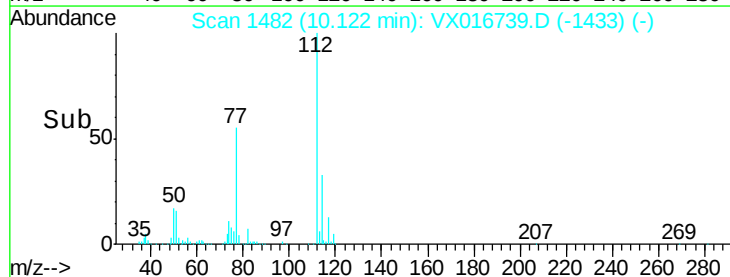
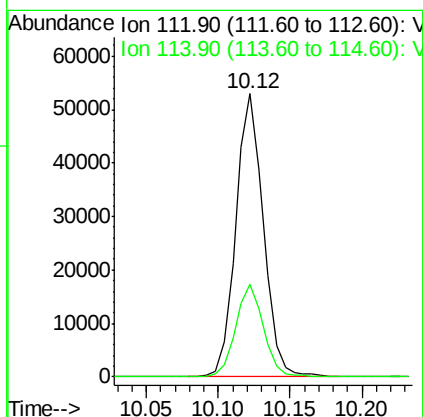
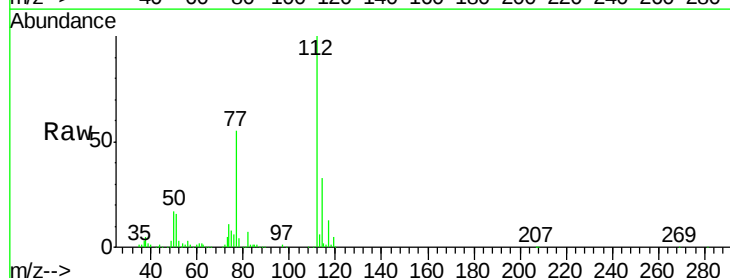
Instrument :
MSVOA_X
ClientSampleId :

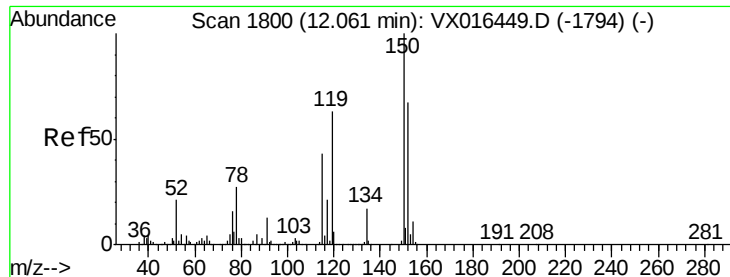
Tot Ion:117 Resp: 341279
Ion Ratio Lower Upper
117 100
82 52.2 45.0 67.6
119 32.4 25.8 38.8



#65
Chlorobenzene
Concen: 10.114 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

Tgt Ion:112 Resp: 70371
Ion Ratio Lower Upper
112 100
114 32.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016739.D

Acq: 12 Jun 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

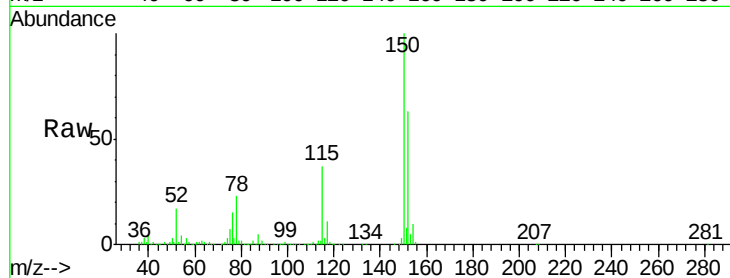
Tot Ion:152 Resp: 176055

Ion Ratio Lower Upper

152 100

115 57.6 39.9 119.6

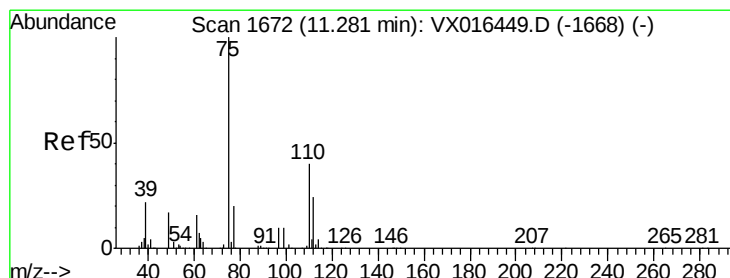
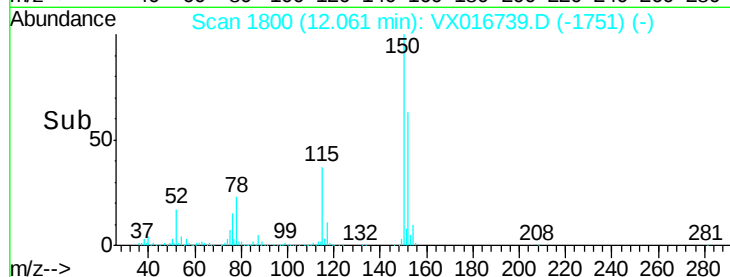
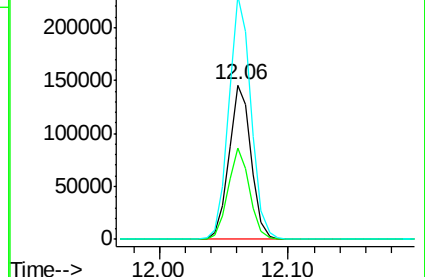
150 159.2 0.0 341.0



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: 20.166 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016739.D

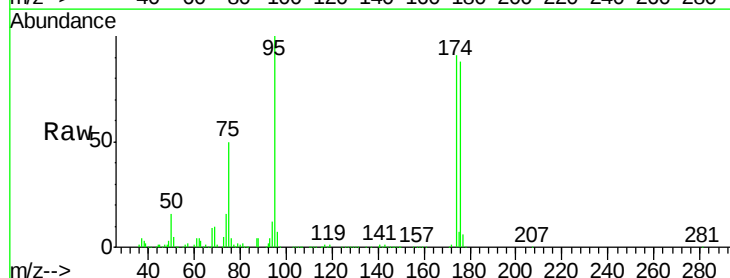
Acq: 12 Jun 2020 19:20

Tgt Ion: 75 Resp: 78037

Ion Ratio Lower Upper

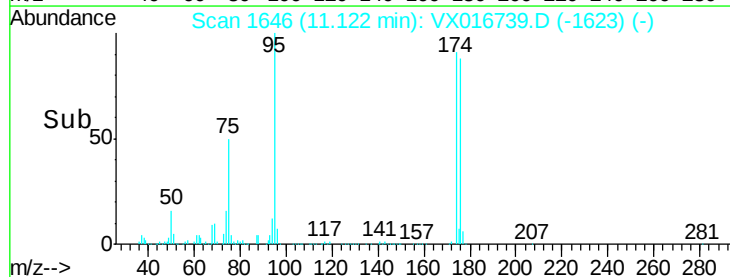
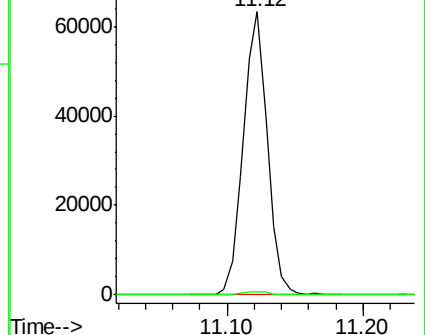
75 100

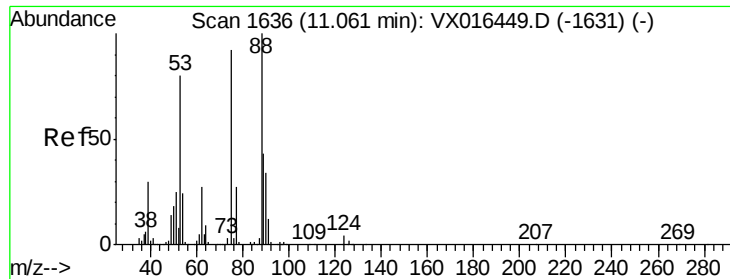
77 1.4 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

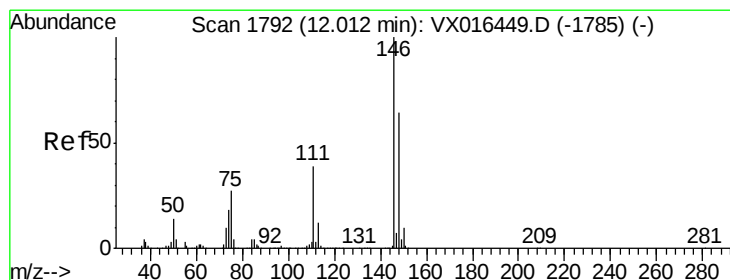
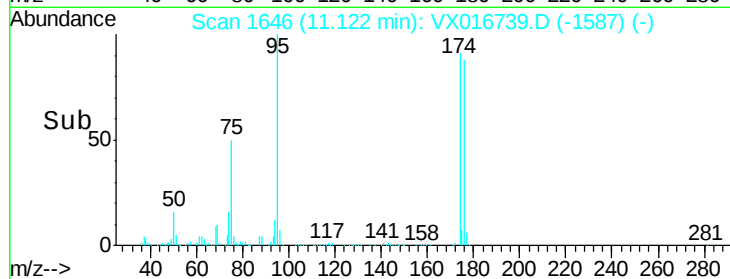
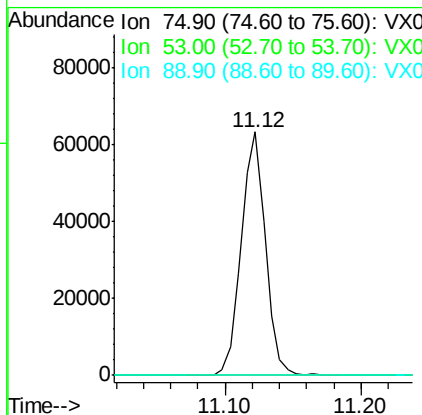
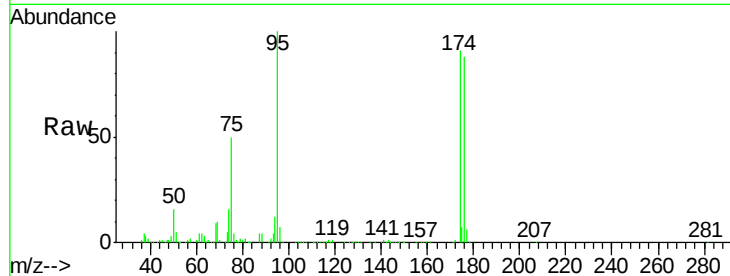




#81
trans-1,4-Dichloro-2-butene
Concen: 49.605 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

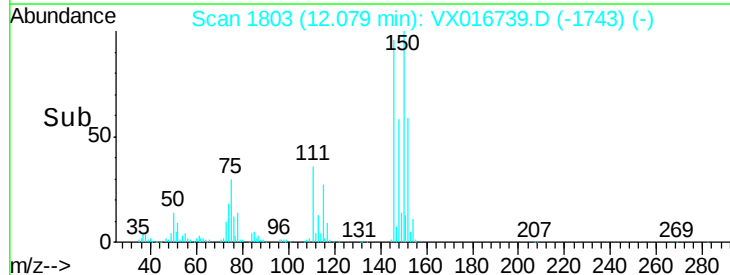
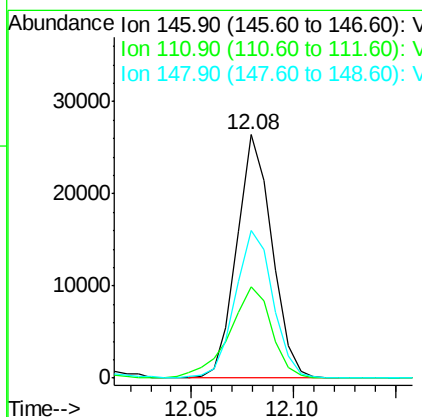
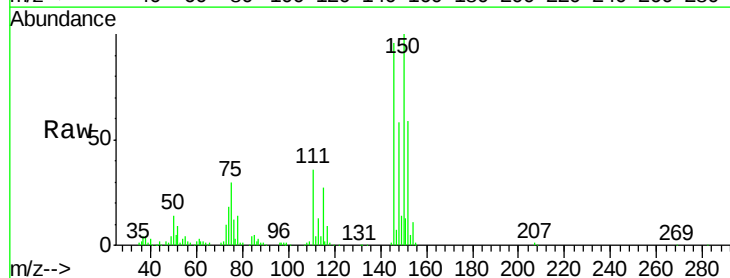
Instrument :
MSVOA_X
ClientSampleId :

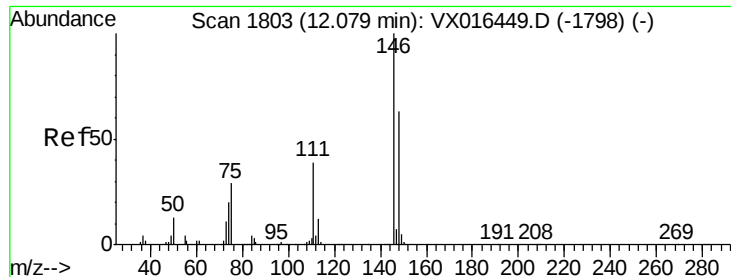
Tot Ion: 75 Resp: 78037
Ion Ratio Lower Upper
75 100
53 0.1 71.3 106.9#
89 0.0 36.6 55.0#



#87
1,3-Dichlorobenzene
Concen: 5.706 ug/l
RT: 12.08 min Scan# 1803
Delta R.T. 0.07 min
Lab File: VX016739.D
Acq: 12 Jun 2020 19:20

Tgt Ion: 146 Resp: 31628
Ion Ratio Lower Upper
146 100
111 44.6 20.0 60.0
148 64.9 31.9 95.5

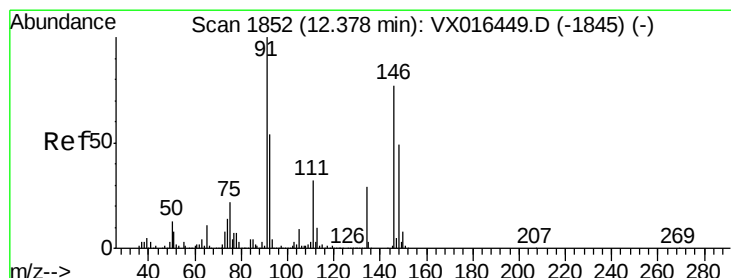
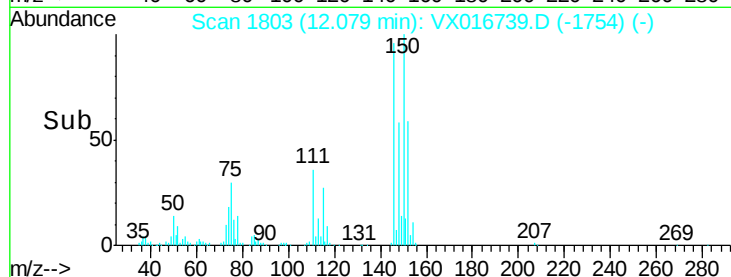
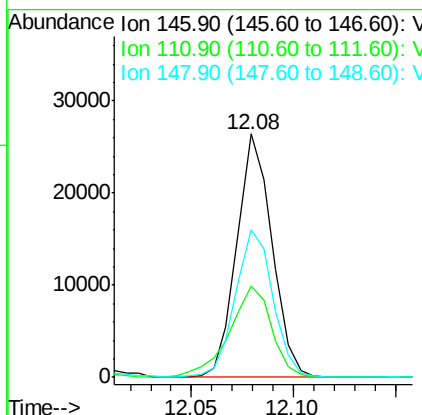
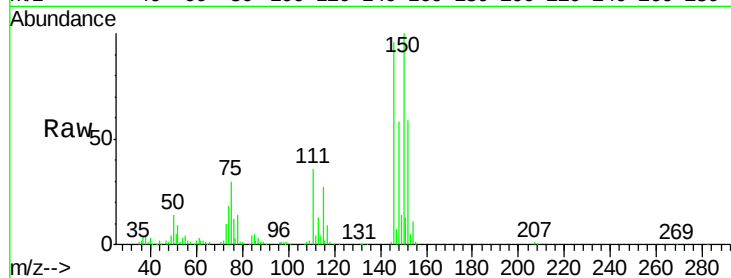




#88
 1,4-Dichlorobenzene
 Concen: 5.579 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX016739.D
 Acq: 12 Jun 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.6	19.4	58.2
148	64.9	31.4	94.3



#91
 1,2-Dichlorobenzene
 Concen: 1.994 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX016739.D
 Acq: 12 Jun 2020 19:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.4	64.3
148	62.5	31.9	95.7

