

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061220\
 Data File : VX016727.D
 Acq On : 12 Jun 2020 14:47
 Operator : JC/SP
 Sample : L3001-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:29:28 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	5.64	168	221068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	352323	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	350044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	181338	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	132792	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
35) Dibromofluoromethane	5.47	113	108368	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	8.70	98	428350	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	11.12	95	171577	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	

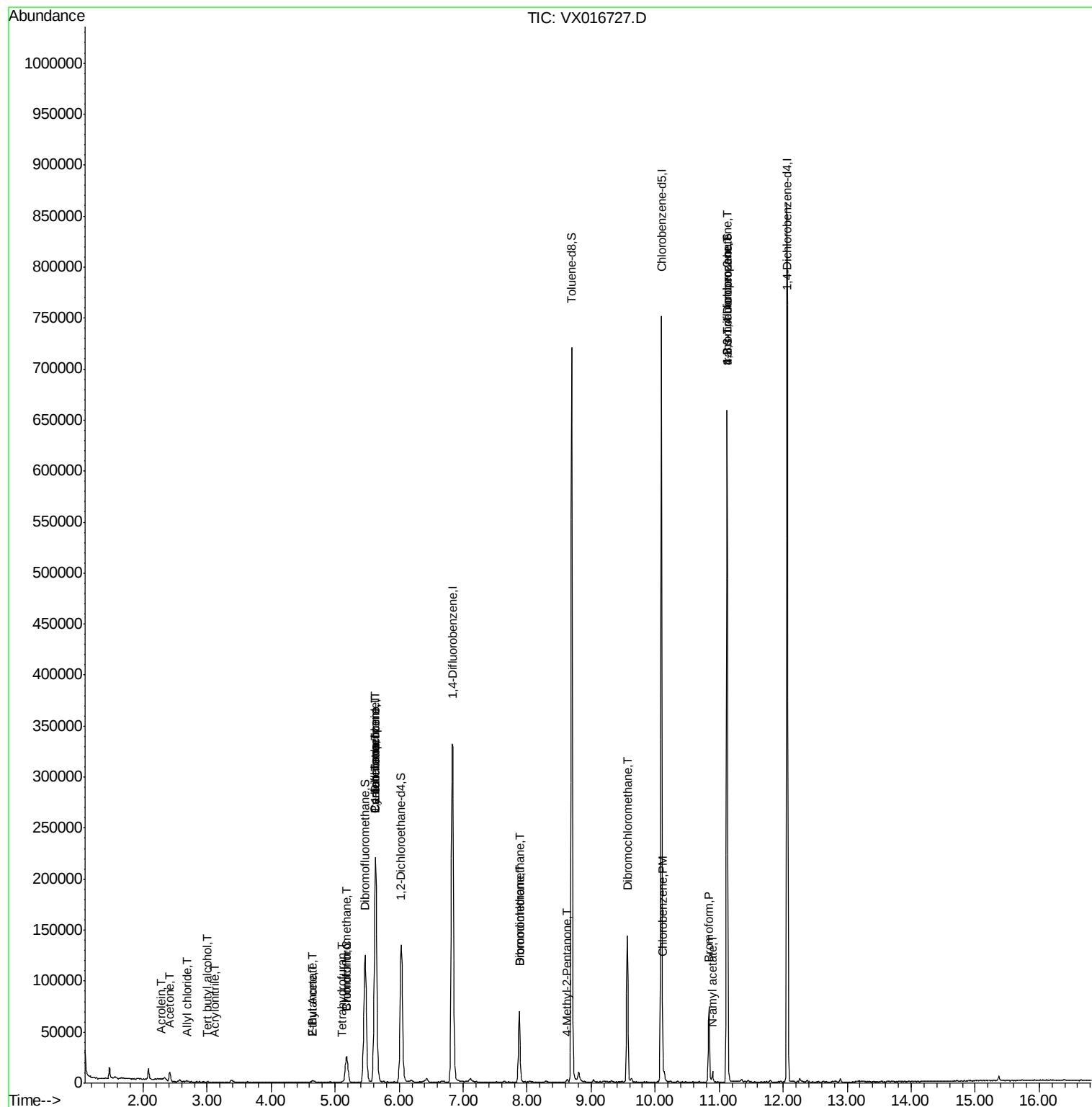
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	422	0.599	ug/l #	72
13) Acrolein	2.28	56	390	1.302	ug/l #	47
14) Allyl chloride	2.69	41	1871	0.478	ug/l #	54
15) Acrylonitrile	3.12	53	333	0.231	ug/l #	73
16) Acetone	2.42	43	9211	7.658	ug/l	97
25) 2-Butanone	4.64	43	2076	1.019	ug/l #	83
28) Bromochloromethane	5.18	49	2360	1.197	ug/l #	12
29) Tetrahydrofuran	5.10	42	366	0.278	ug/l #	78
30) Chloroform	5.18	83	31215	7.304	ug/l	97
31) Cyclohexane	5.62	56	3944	1.034	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	14540	4.359	ug/l #	53
37) Ethyl Acetate	4.64	43	2076	0.518	ug/l #	67
38) Carbon Tetrachloride	5.63	117	20694	5.903	ug/l #	17
46) Dibromomethane	7.88	93	1420	0.836	ug/l #	2
47) Bromodichloromethane	7.88	83	46988	13.360	ug/l	96
51) 4-Methyl-2-Pentanone	8.61	43	1176	0.302	ug/l #	72
60) Dibromochloromethane	9.57	129	62945	22.457	ug/l	99
65) Chlorobenzene	10.12	112	1472	0.206	ug/l	94
71) Bromoform	10.84	173	29047	12.617	ug/l #	99
74) N-amyl acetate	10.90	43	1472	0.255	ug/l #	10
76) 1,2,3-Trichloropropane	11.12	75	83595	20.973	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	83595	51.590	ug/l #	14

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

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QLast Update : Wed May 27 16:31:05 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

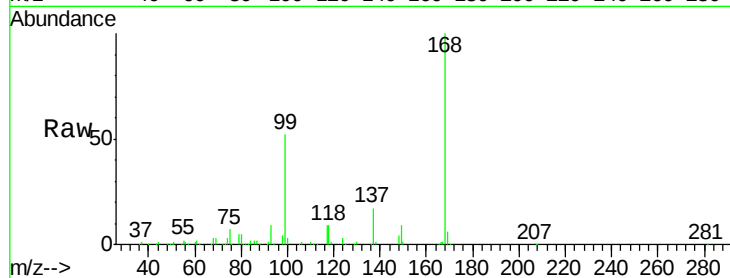
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 221068

Ion Ratio Lower Upper

168 100

99 52.3 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

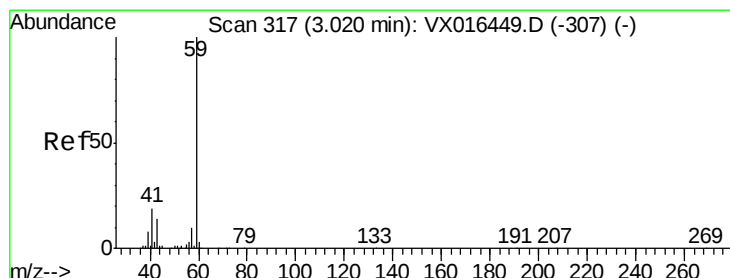
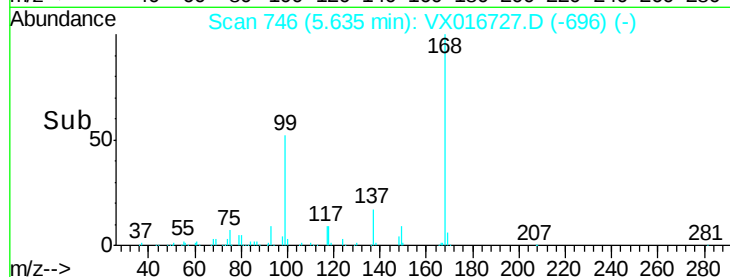
40000

20000

0

Time-->

5.50 5.60 5.70



#11

Tert butyl alcohol

Concen: 0.599 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX016727.D

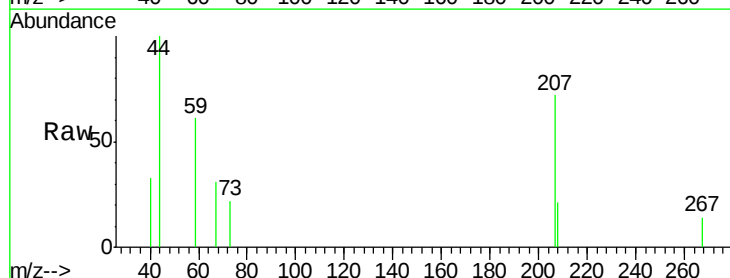
Acq: 12 Jun 2020 14:47

Tgt Ion: 59 Resp: 422

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

250

200

150

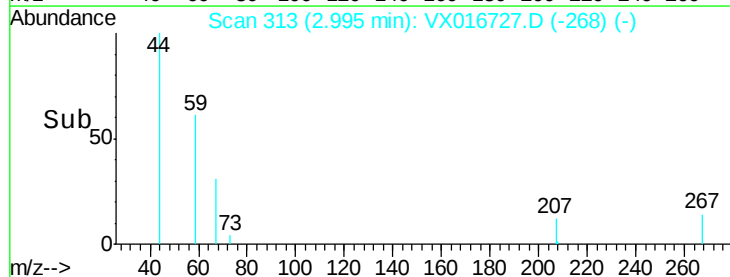
100

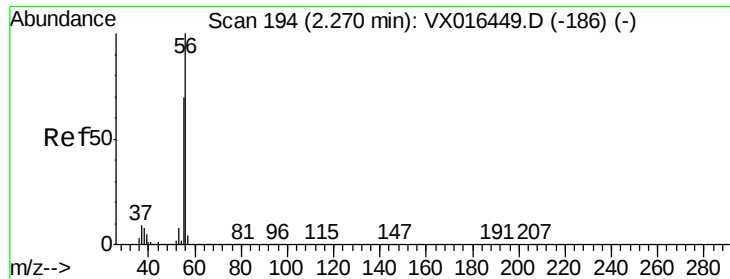
50

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 1.302 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

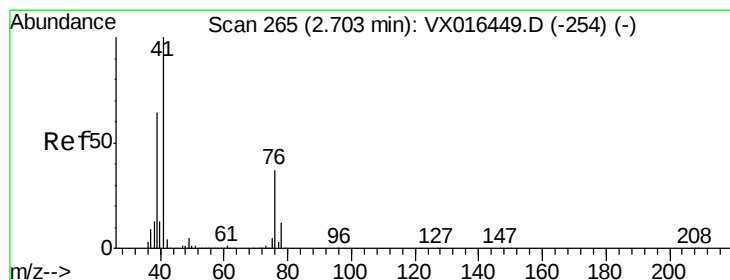
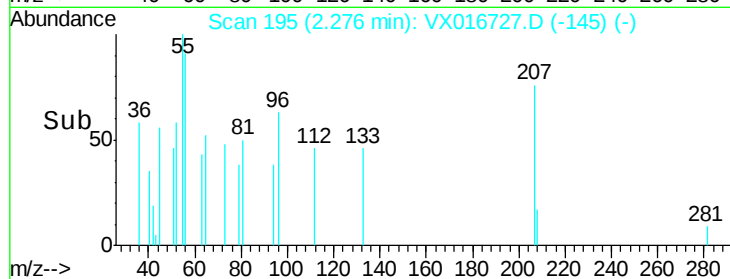
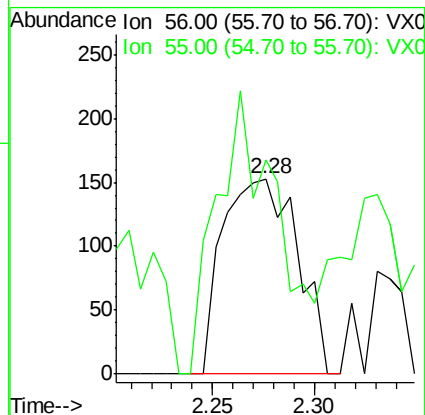
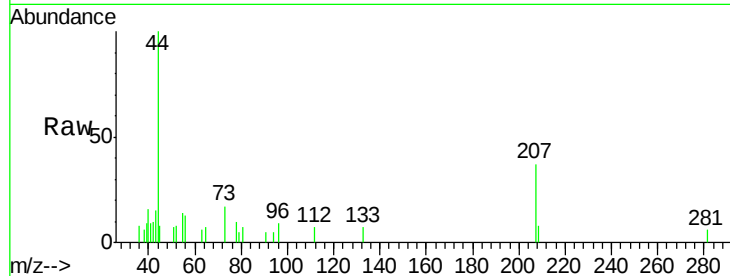
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 390

Ion Ratio Lower Upper

56 100

55 117.4 58.3 87.5#



#14

Allyl chloride

Concen: 0.478 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

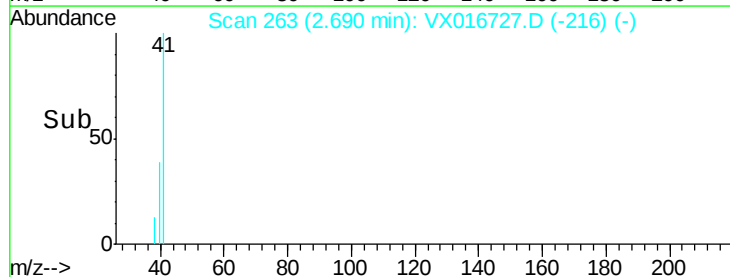
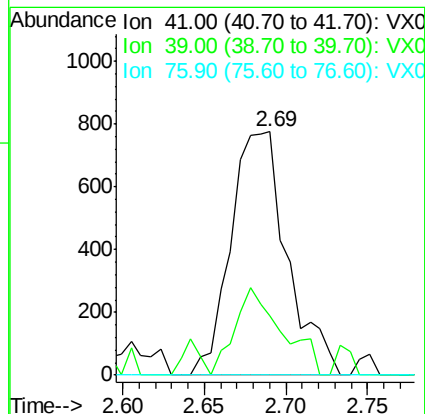
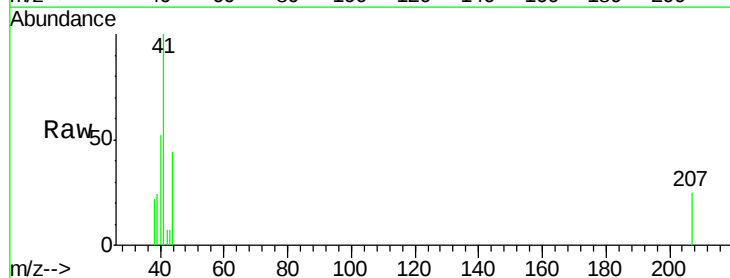
Tgt Ion: 41 Resp: 1871

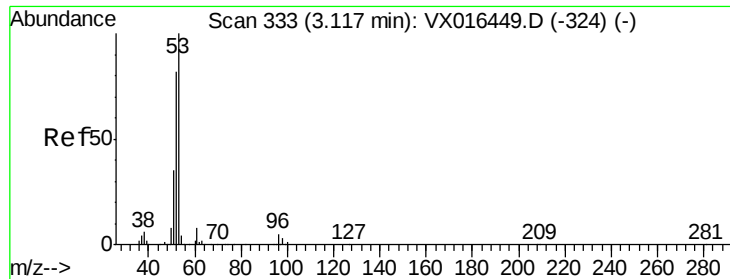
Ion Ratio Lower Upper

41 100

39 30.3 47.7 71.5#

76 0.0 26.6 40.0#





#15

Acrylonitrile

Concen: 0.231 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

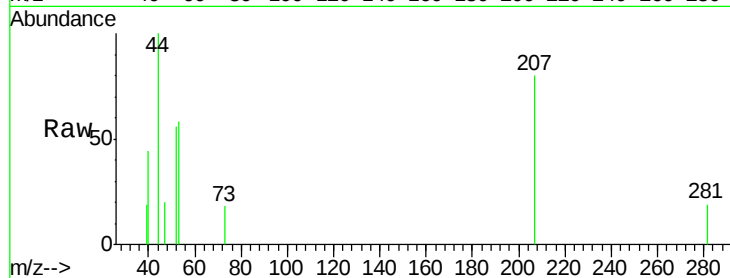
Tot Ion: 53 Resp: 333

Ion Ratio Lower Upper

53 100

52 103.3 66.7 100.1#

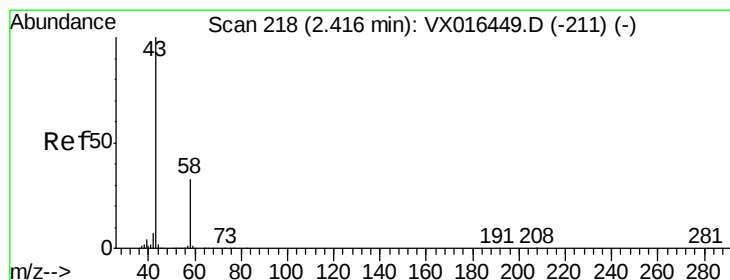
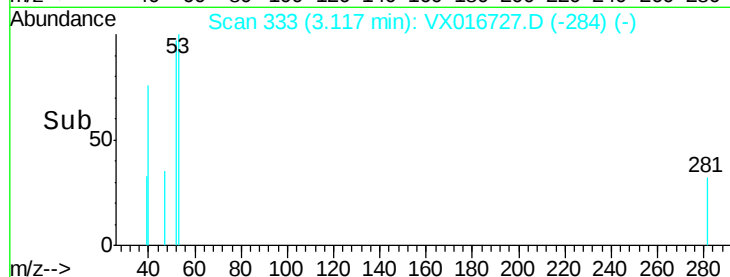
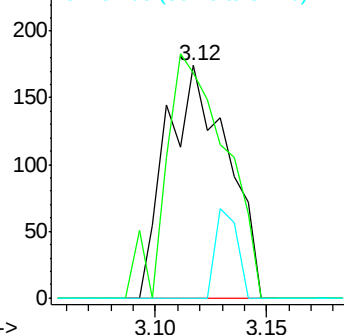
51 13.5 28.6 43.0#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 7.658 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016727.D

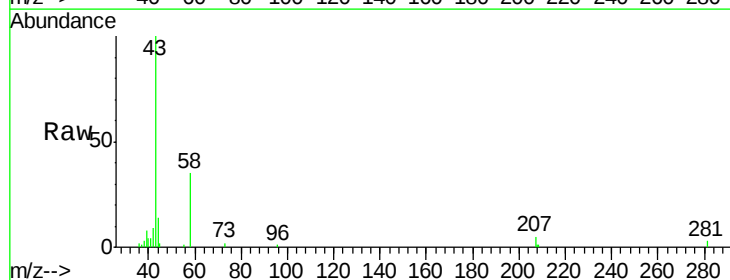
Acq: 12 Jun 2020 14:47

Tgt Ion: 43 Resp: 9211

Ion Ratio Lower Upper

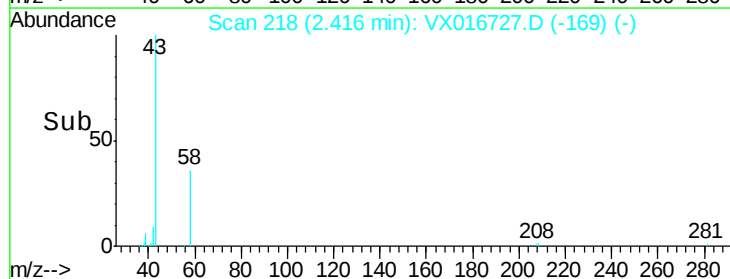
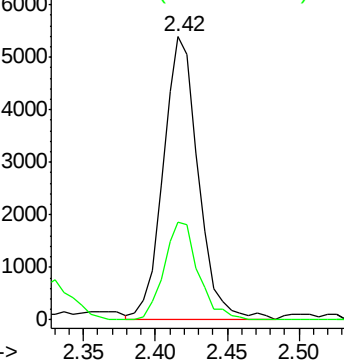
43 100

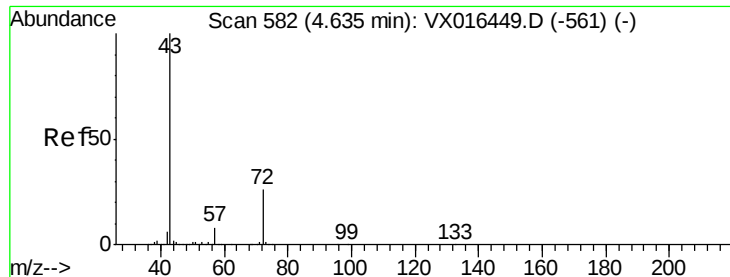
58 34.5 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

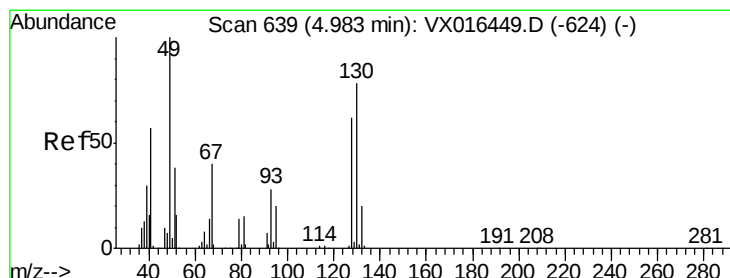
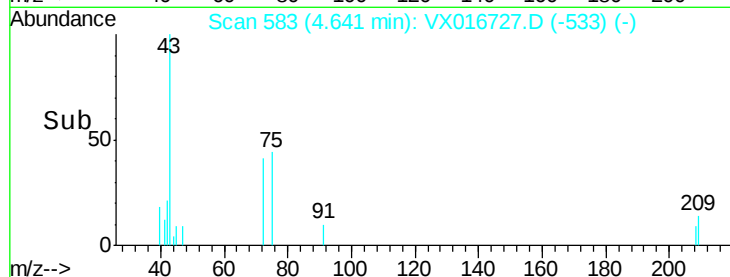
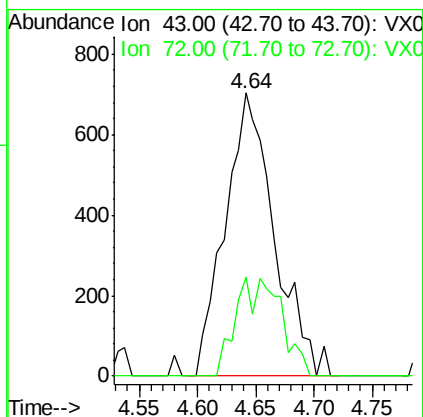
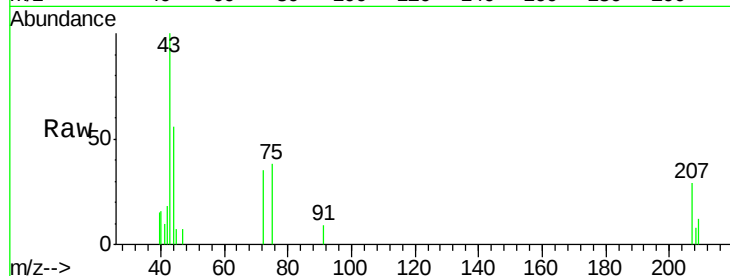




#25
2-Butanone
Concen: 1.019 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

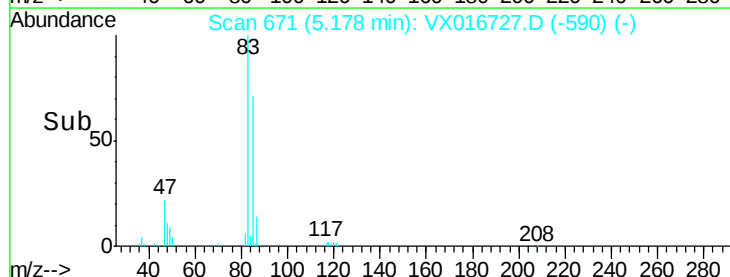
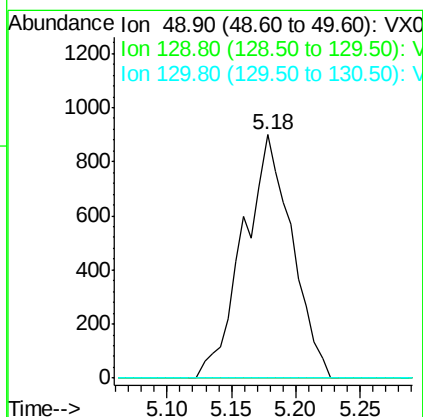
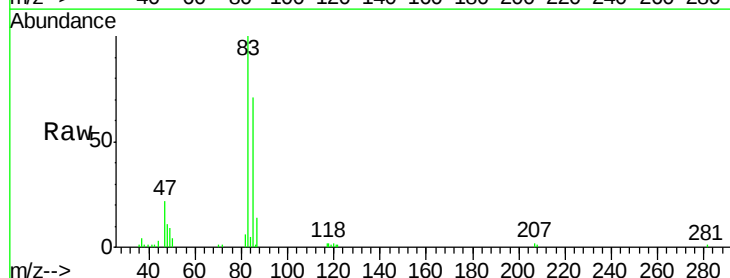
Instrument :
MSVOA_X
ClientSampleId :

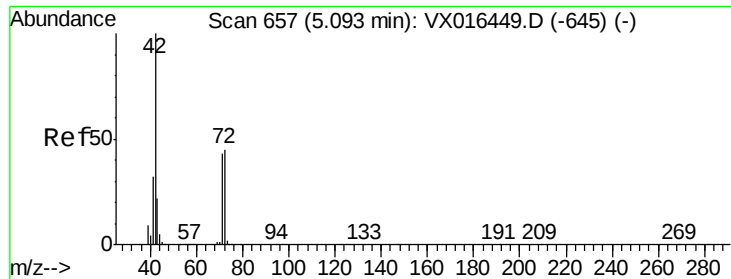
Tot Ion: 43 Resp: 2076
Ion Ratio Lower Upper
43 100
72 35.1 21.0 31.6#



#28
Bromochloromethane
Concen: 1.197 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.19 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

Tgt Ion: 49 Resp: 2360
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 63.0 94.4#





#29

Tetrahydrofuran

Concen: 0.278 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016727.D

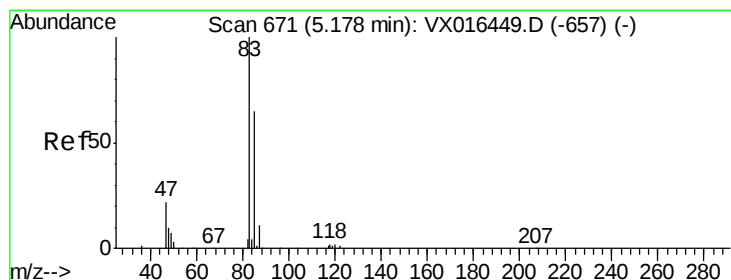
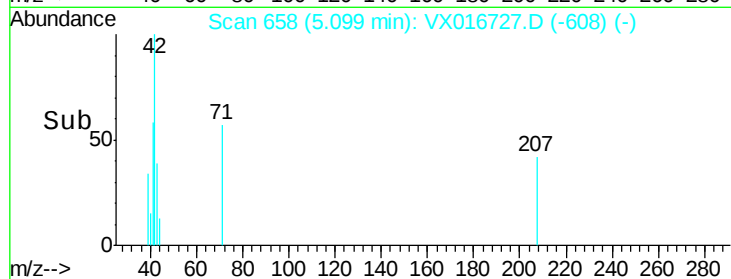
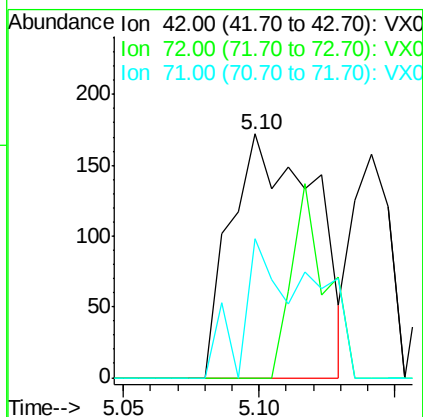
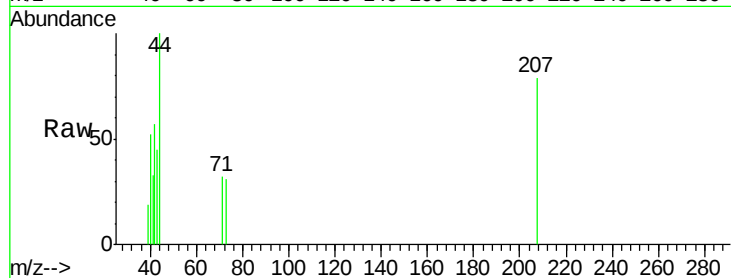
Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	366
Ion	Ratio	Lower	Upper
42	100		
72	32.8	37.0	55.4#
71	27.3	34.1	51.1#



#30

Chloroform

Concen: 7.304 ug/l

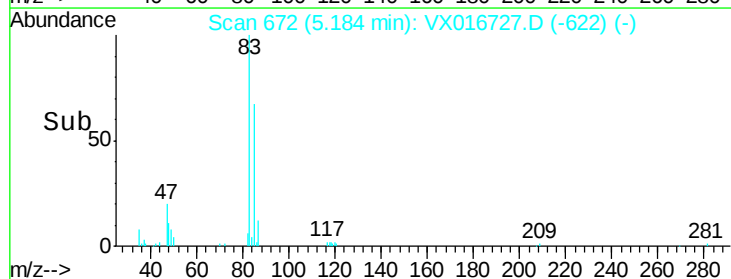
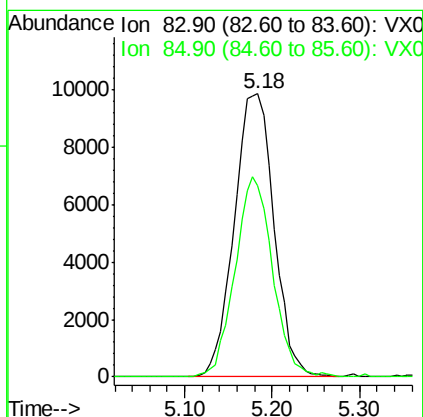
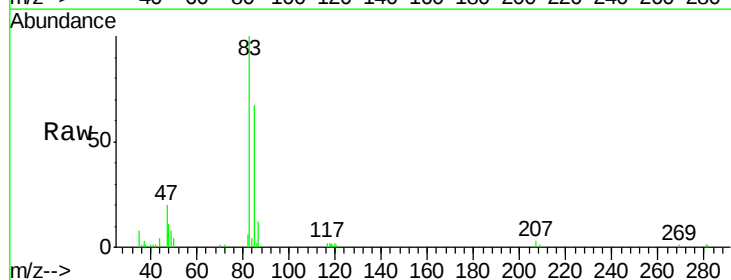
RT: 5.18 min Scan# 672

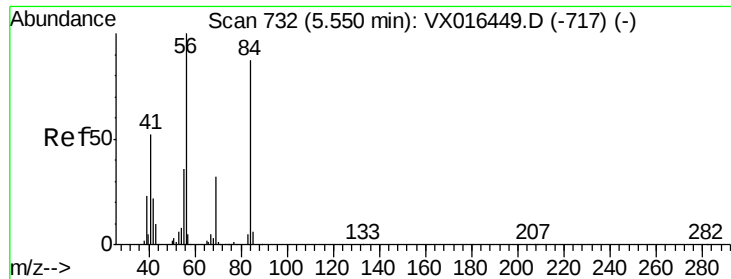
Delta R.T. 0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Tgt Ion:	83	Resp:	31215
Ion	Ratio	Lower	Upper
83	100		
85	67.4	52.0	78.0

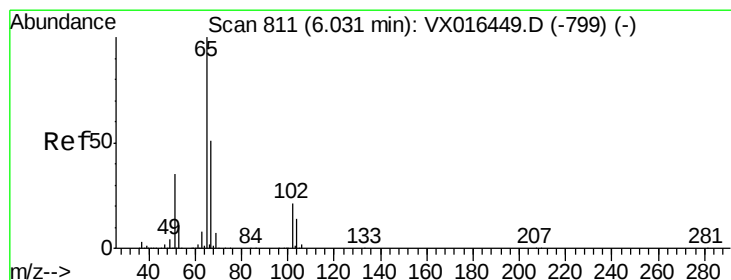
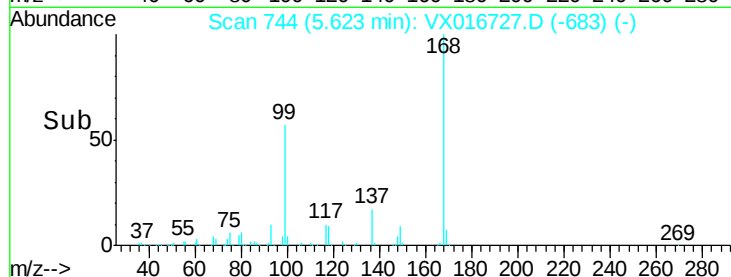
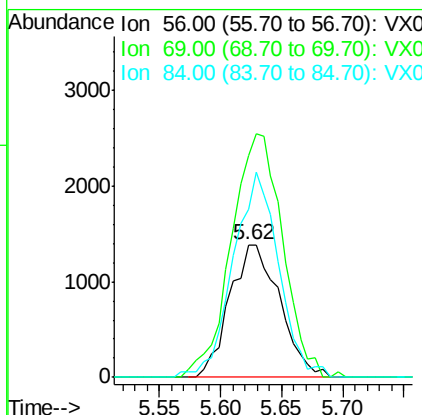
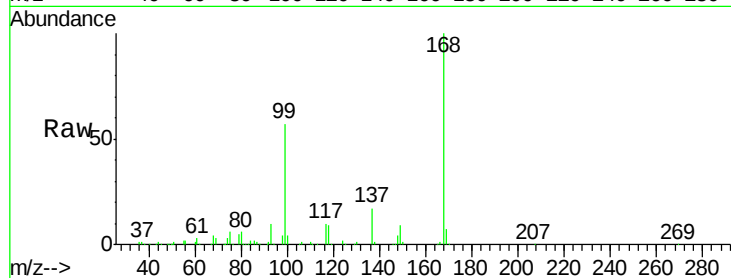




#31
Cyclohexane
Concen: 1.034 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

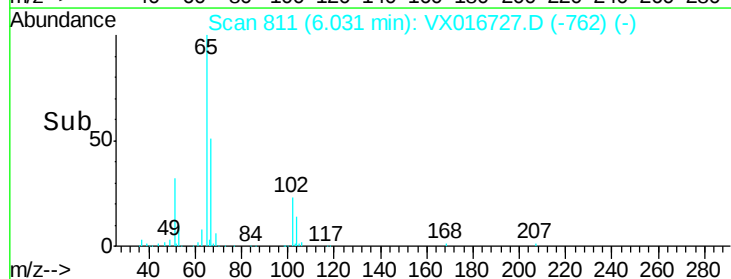
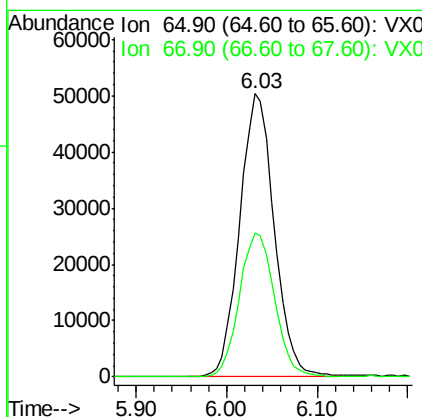
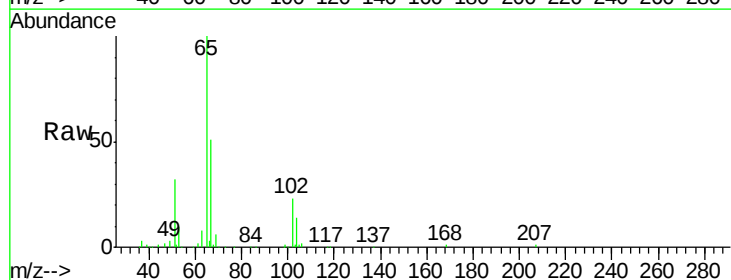
Instrument :
MSVOA_X
ClientSampled :

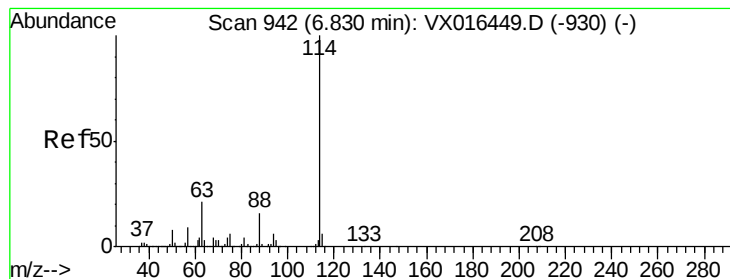
Tot Ion: 56 Resp: 3944
Ion Ratio Lower Upper
56 100
69 162.7 25.7 38.5#
84 126.2 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.369 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

Tgt Ion: 65 Resp: 132792
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

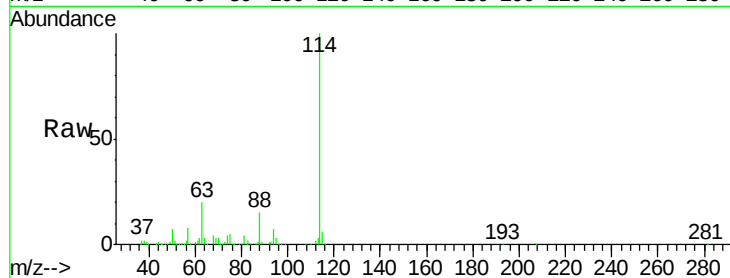
Tot Ion:114 Resp: 352323

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

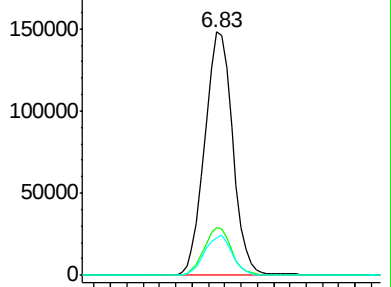
88 15.3 0.0 32.8



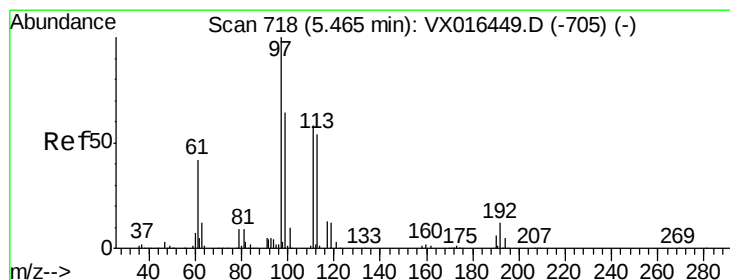
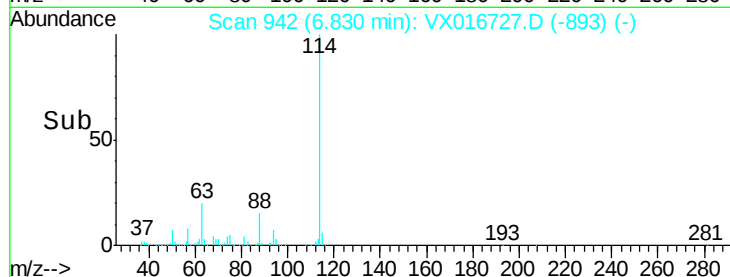
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



Time-->



#35

Dibromofluoromethane

Concen: 49.953 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

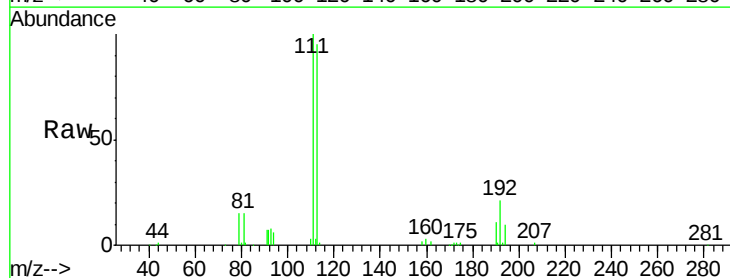
Tgt Ion:113 Resp: 108368

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.6

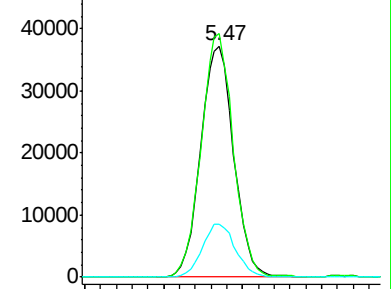
192 22.9 17.7 26.5



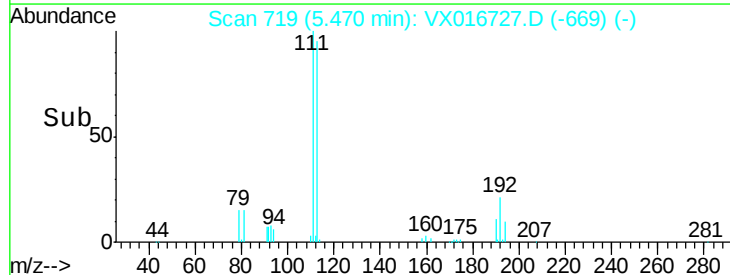
Abundance Ion 112.80 (112.50 to 113.50): V

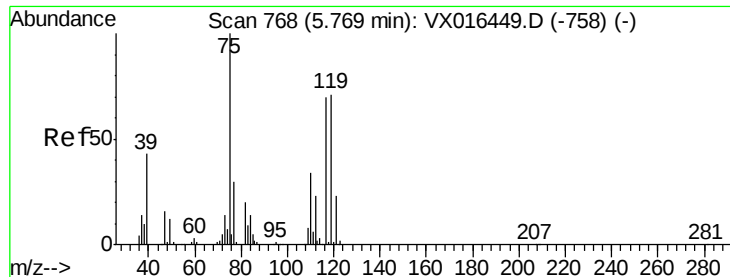
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->

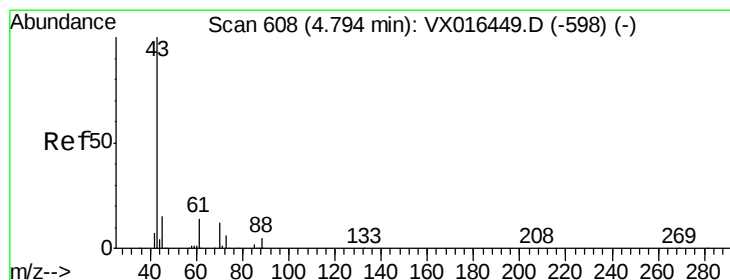
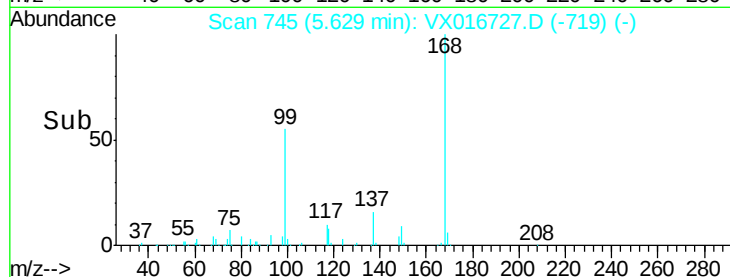
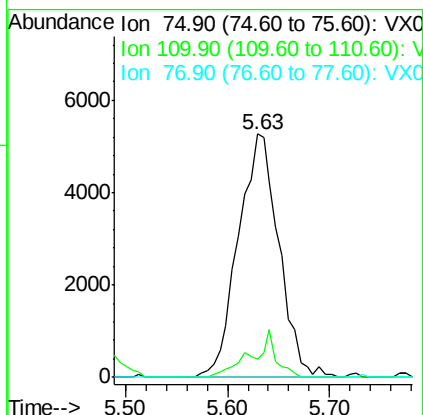
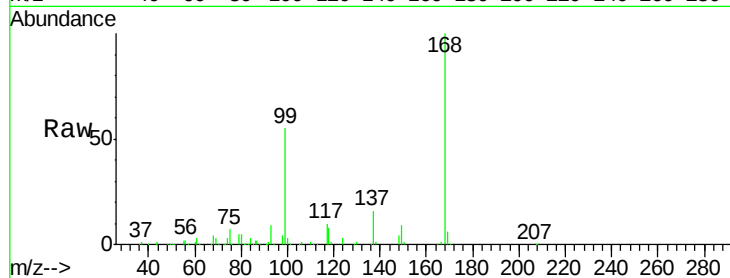




#36
 1,1-Dichloropropene
 Concen: 4.359 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016727.D
 Acq: 12 Jun 2020 14:47

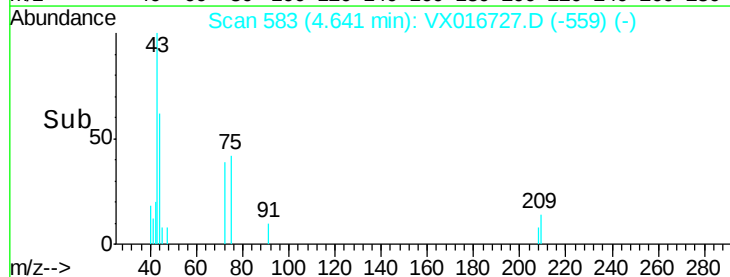
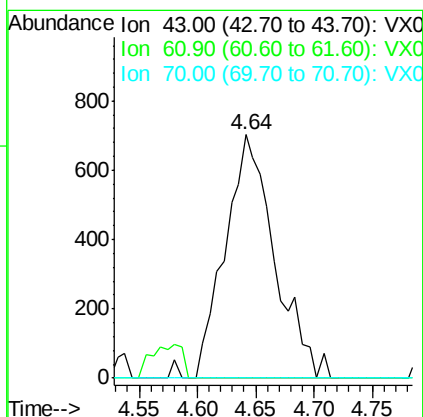
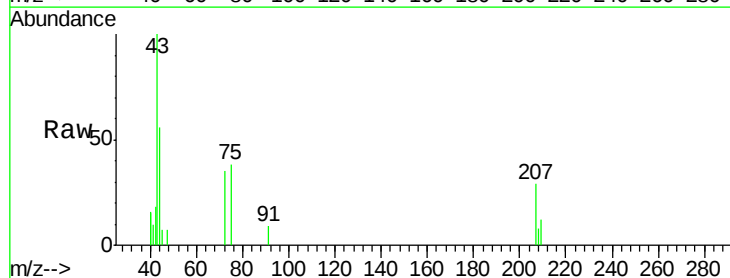
Instrument :
 MSVOA_X
 ClientSampleId :

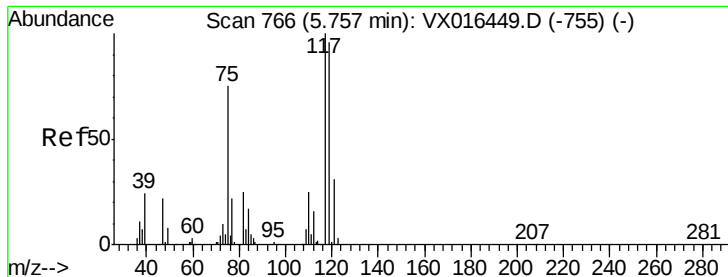
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.9	17.4	52.3#
77	0.0	24.2	36.4#



#37
 Ethyl Acetate
 Concen: 0.518 ug/l
 RT: 4.64 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX016727.D
 Acq: 12 Jun 2020 14:47

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	9.3	13.9#





#38

Carbon Tetrachloride

Concen: 5.903 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

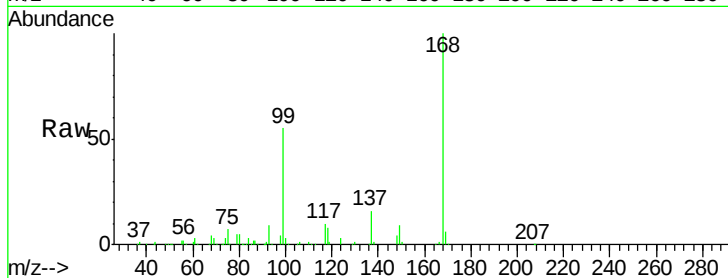
Tot Ion:117 Resp: 20694

Ion Ratio Lower Upper

117 100

119 6.1 76.3 114.5#

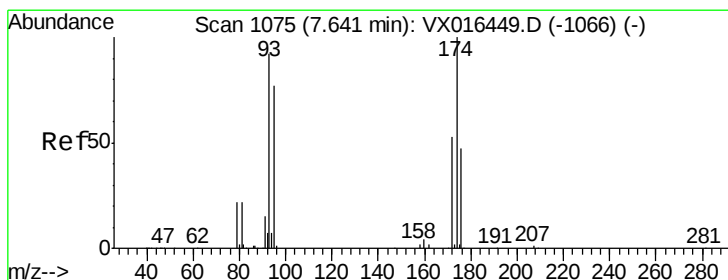
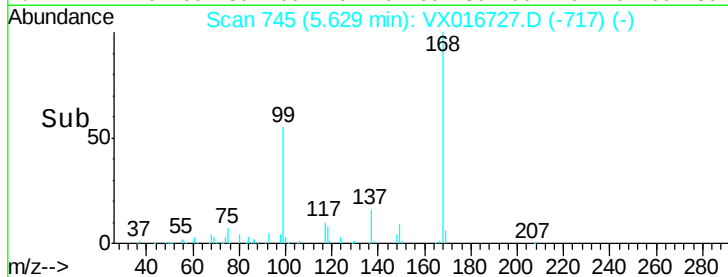
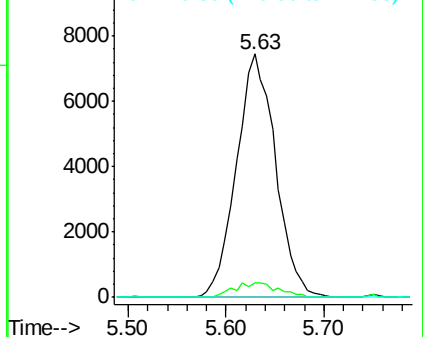
121 0.0 24.6 37.0#



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



#46

Dibromomethane

Concen: 0.836 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.24 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

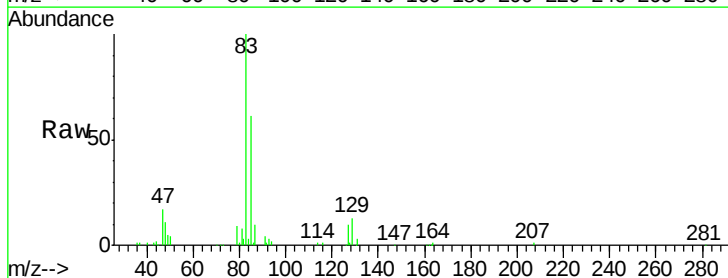
Tgt Ion: 93 Resp: 1420

Ion Ratio Lower Upper

93 100

95 0.0 66.6 100.0#

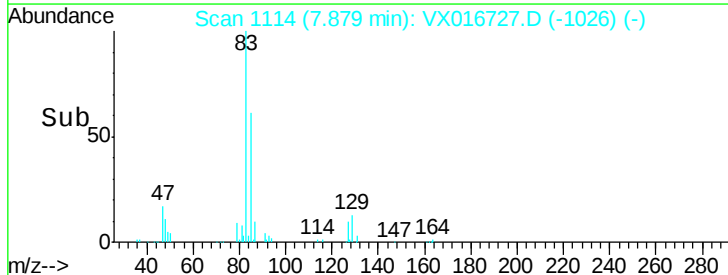
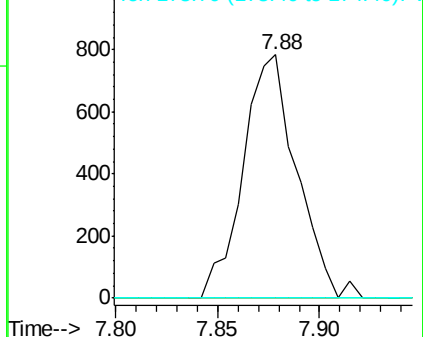
174 0.0 86.2 129.4#

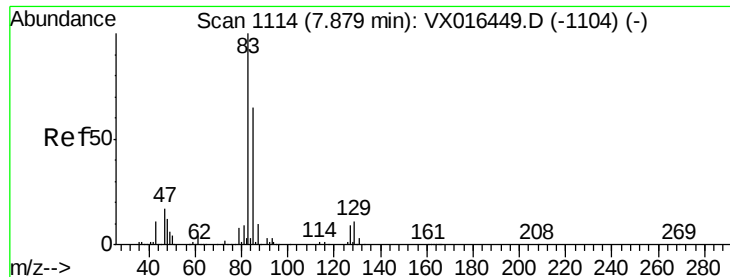


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 13.360 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

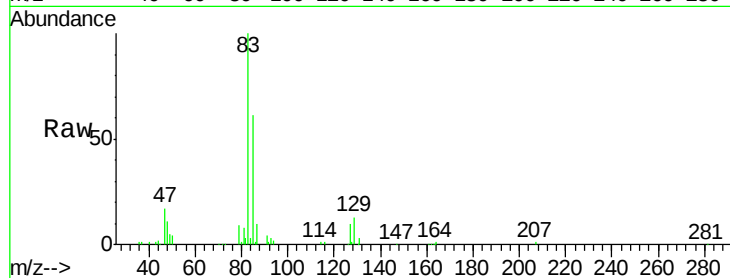
Tot Ion: 83 Resp: 46988

Ion Ratio Lower Upper

83 100

85 61.2 52.0 78.0

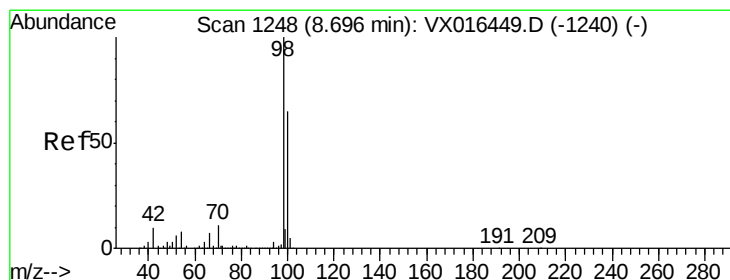
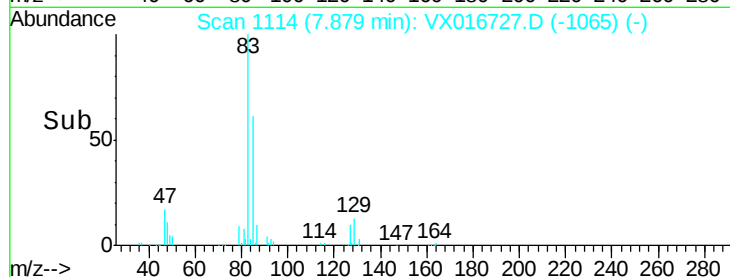
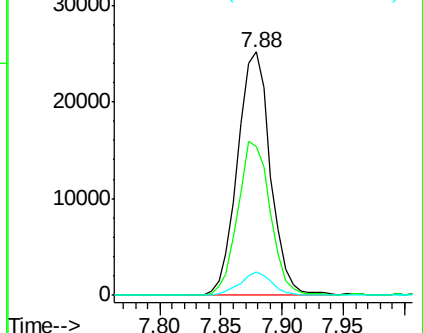
127 9.9 7.4 11.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 50.729 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016727.D

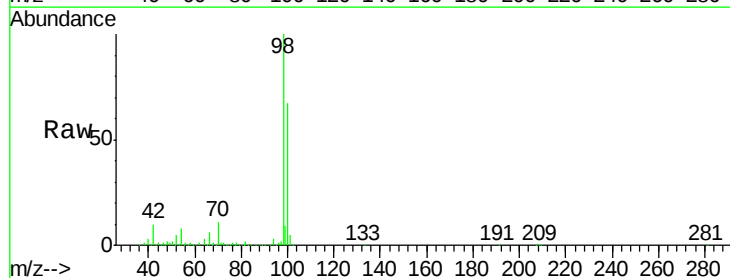
Acq: 12 Jun 2020 14:47

Tgt Ion: 98 Resp: 428350

Ion Ratio Lower Upper

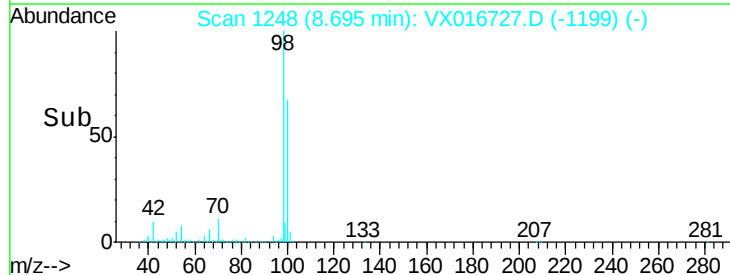
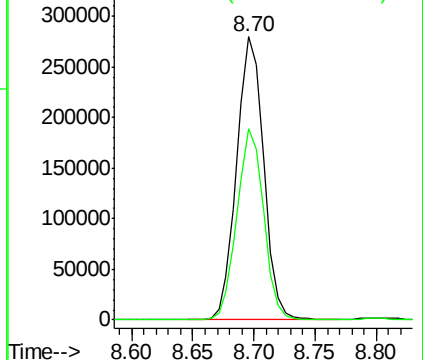
98 100

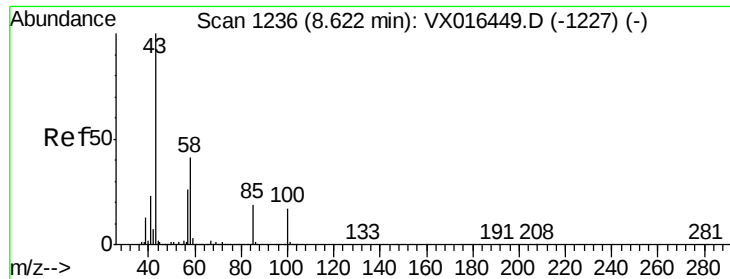
100 66.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.302 ug/l

RT: 8.61 min Scan# 1234

Delta R.T. -0.01 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

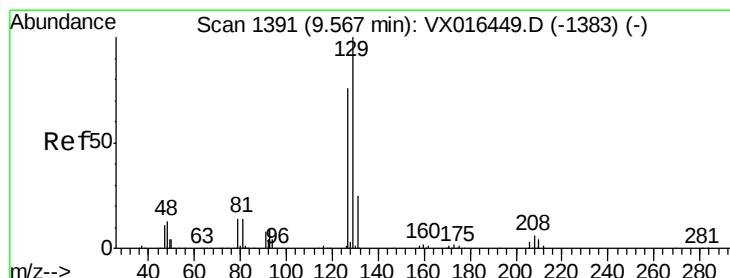
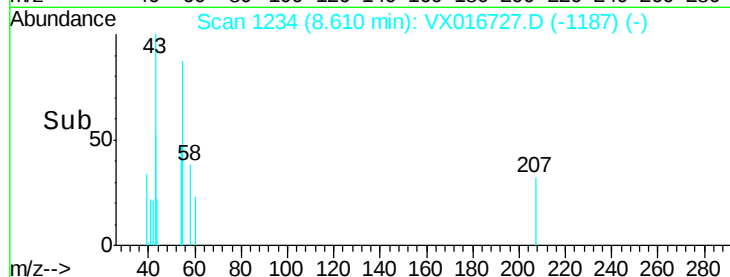
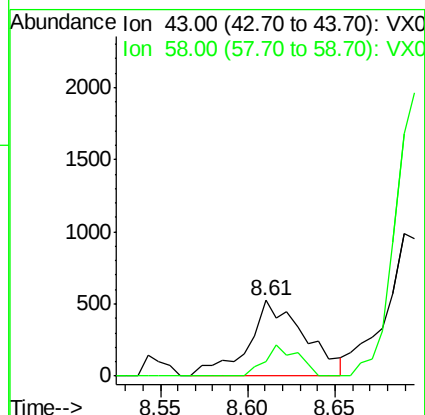
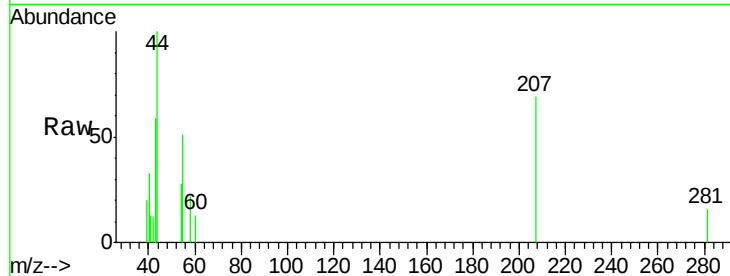
ClientSampleId :

Tot Ion: 43 Resp: 1176

Ion Ratio Lower Upper

43 100

58 23.9 33.0 49.6#



#60

Dibromochloromethane

Concen: 22.457 ug/l

RT: 9.57 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VX016727.D

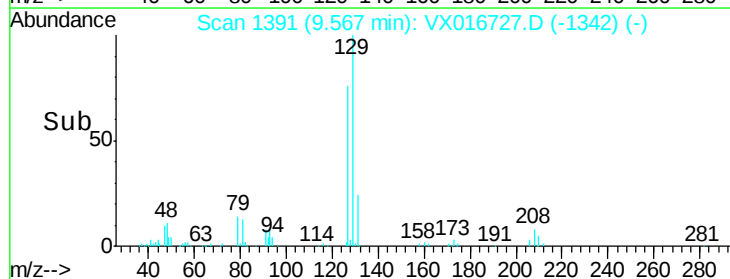
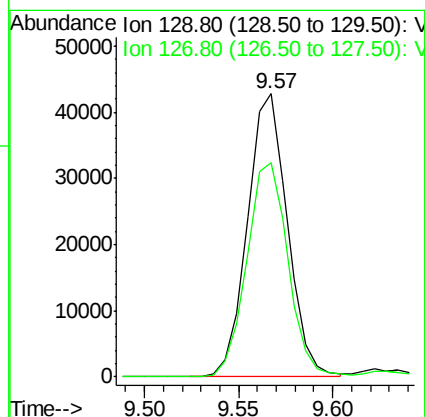
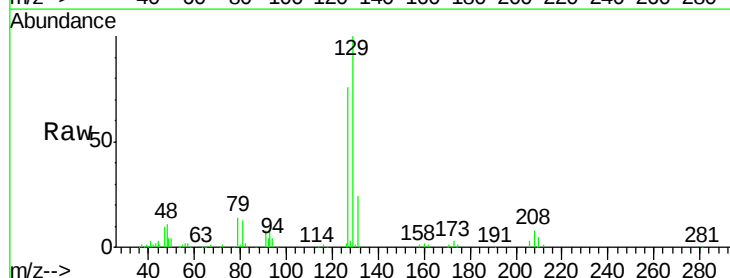
Acq: 12 Jun 2020 14:47

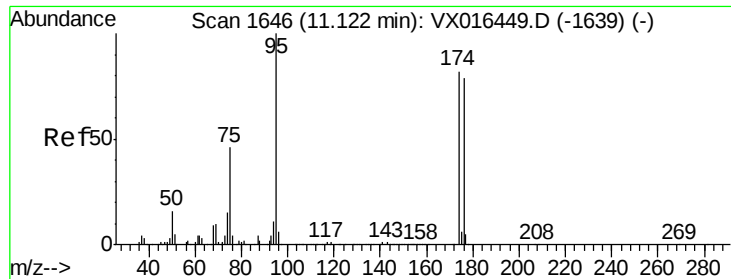
Tgt Ion:129 Resp: 62945

Ion Ratio Lower Upper

129 100

127 78.0 38.6 116.0





#62

4-Bromofluorobenzene

Concen: 52.588 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

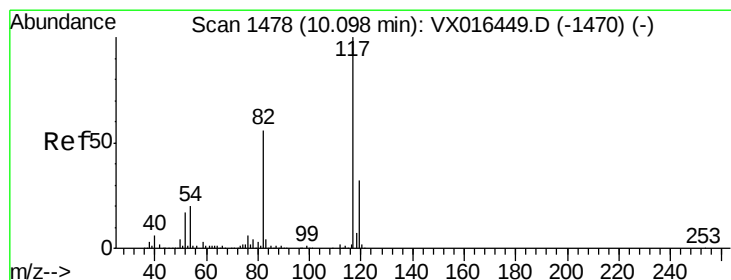
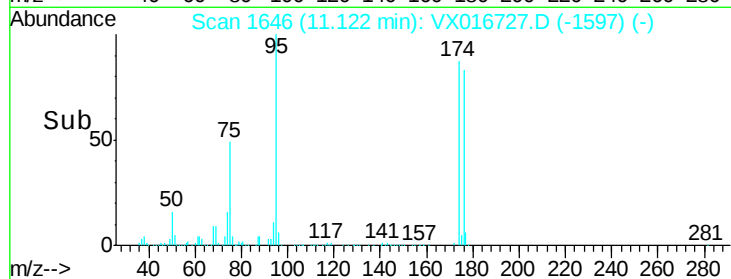
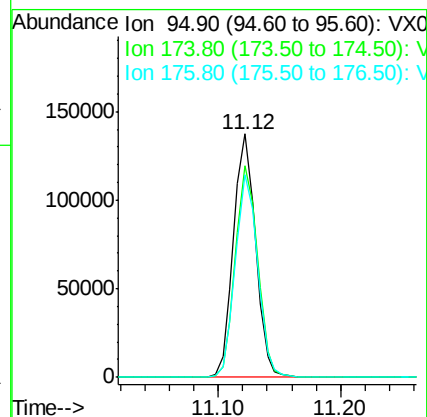
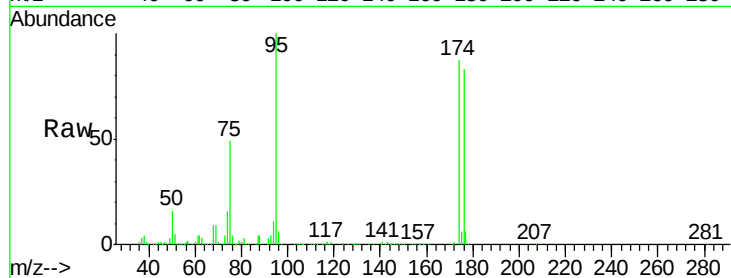
Tot Ion: 95 Resp: 171577

Ion Ratio Lower Upper

95 100

174 87.7 0.0 163.0

176 83.8 0.0 156.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

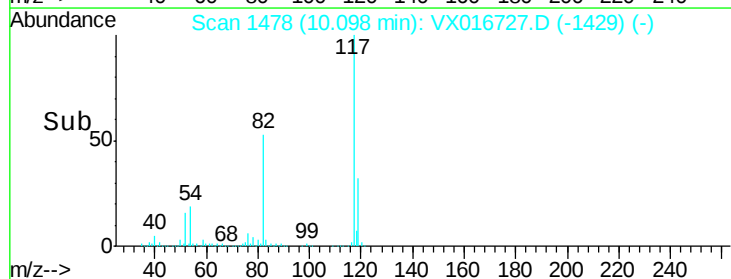
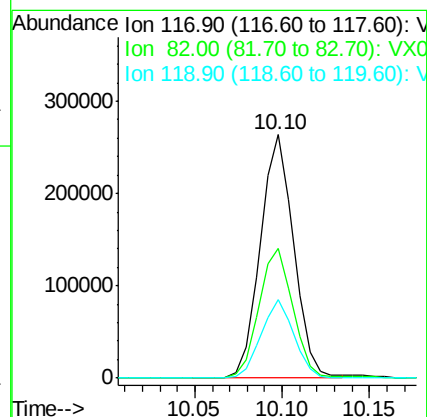
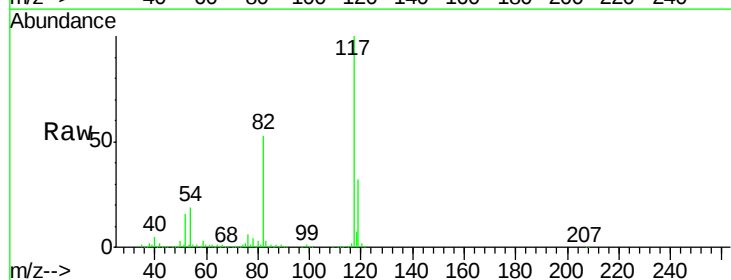
Tgt Ion: 117 Resp: 350044

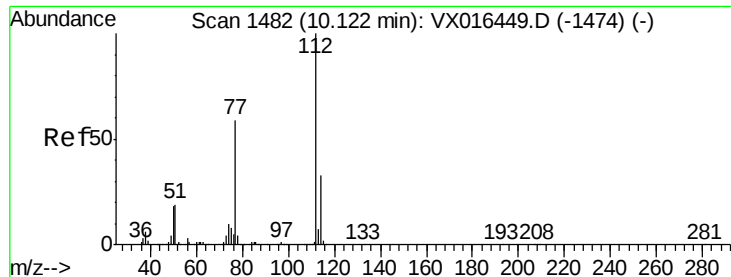
Ion Ratio Lower Upper

117 100

82 53.4 45.0 67.6

119 32.4 25.8 38.8

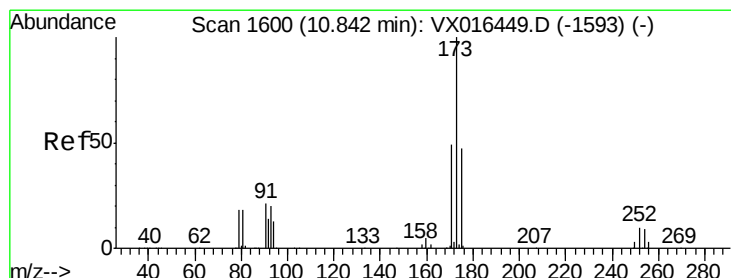
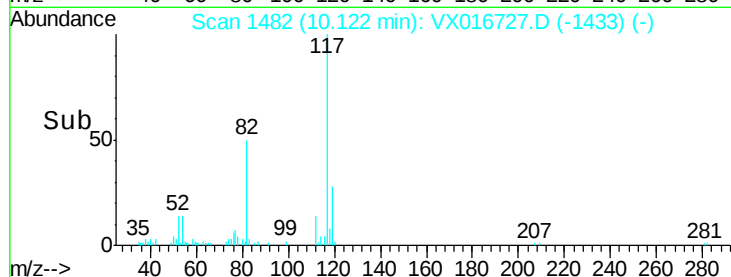
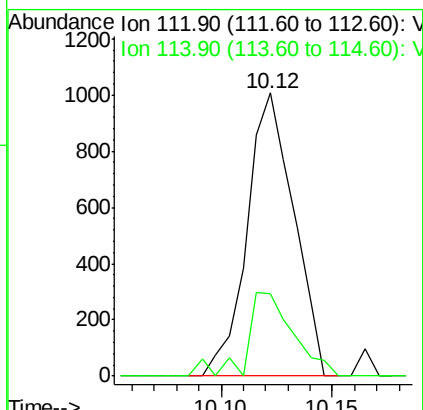
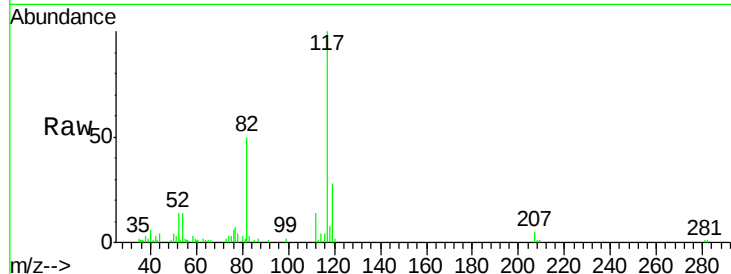




#65
Chlorobenzene
Concen: 0.206 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

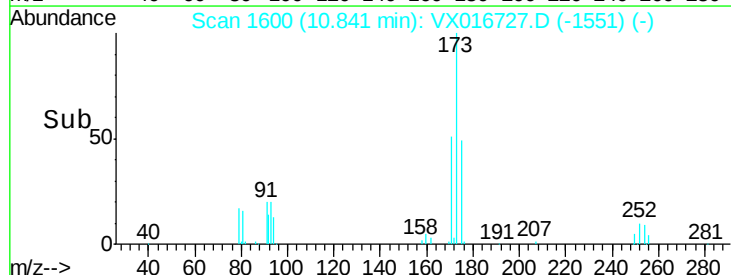
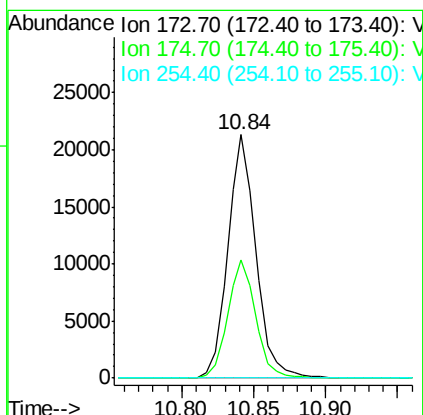
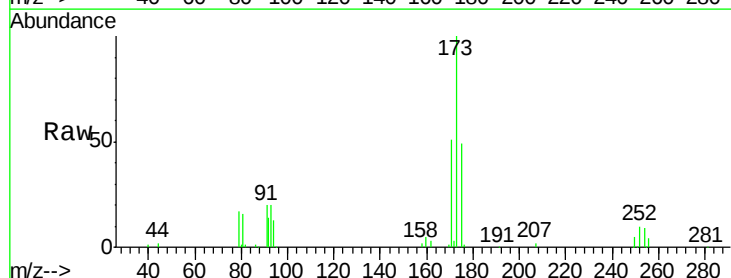
Instrument :
MSVOA_X
ClientSampled :

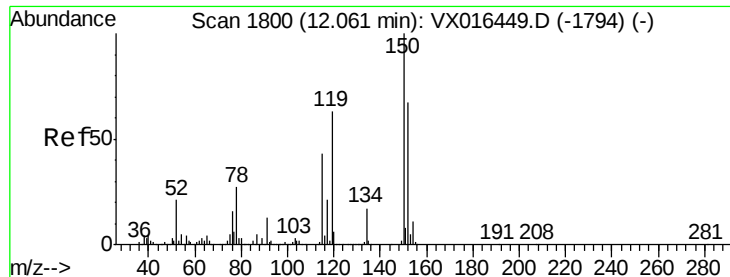
Tot Ion:112 Resp: 1472
Ion Ratio Lower Upper
112 100
114 29.1 26.0 39.0



#71
Bromoform
Concen: 12.617 ug/l
RT: 10.84 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VX016727.D
Acq: 12 Jun 2020 14:47

Tgt Ion:173 Resp: 29047
Ion Ratio Lower Upper
173 100
175 48.6 23.9 71.7
254 0.2 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

ClientSampleId :

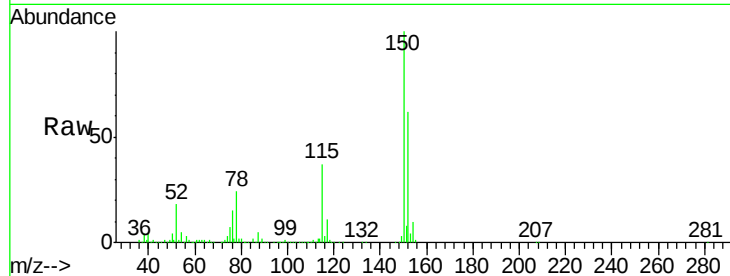
Tot Ion:152 Resp: 181338

Ion Ratio Lower Upper

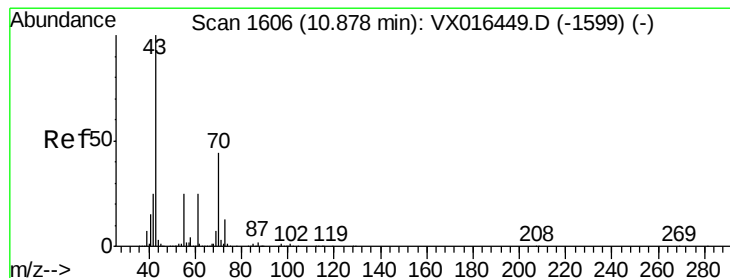
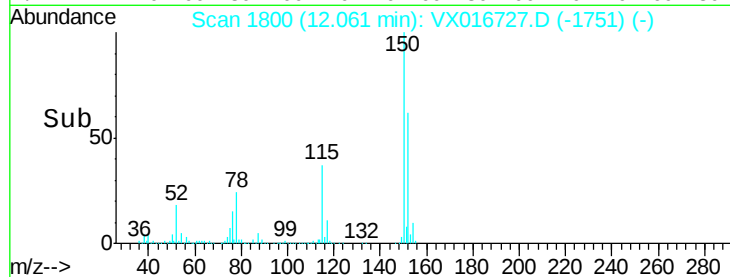
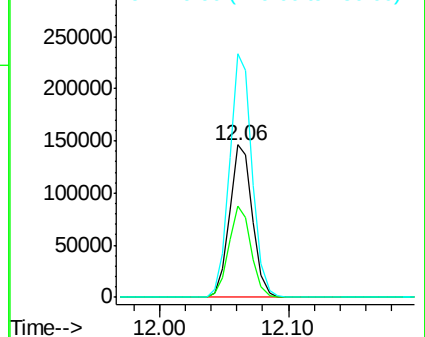
152 100

115 58.7 39.9 119.6

150 158.2 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



#74

N-ethyl acetate

Concen: 0.255 ug/l

RT: 10.90 min Scan# 1609

Delta R.T. 0.02 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Tgt Ion: 43 Resp: 1472

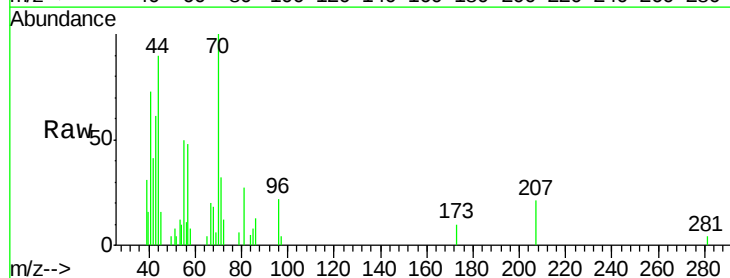
Ion Ratio Lower Upper

43 100

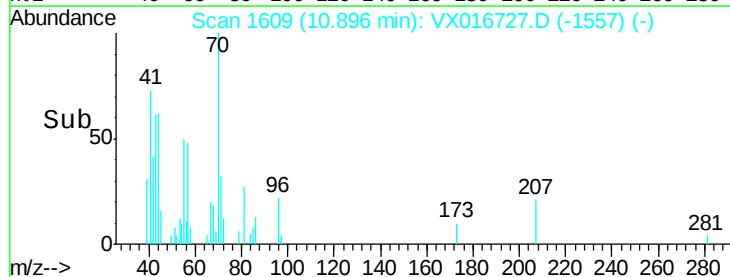
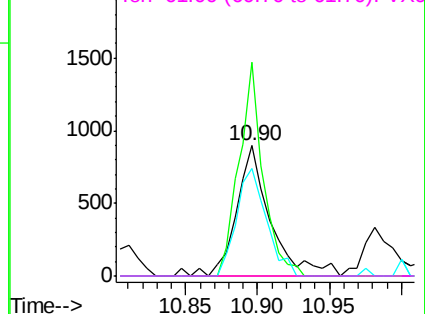
70 117.1 36.1 54.1#

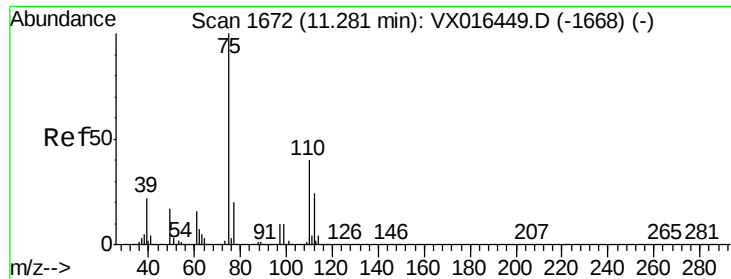
55 73.2 20.2 30.4#

61 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.973 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Instrument :

MSVOA_X

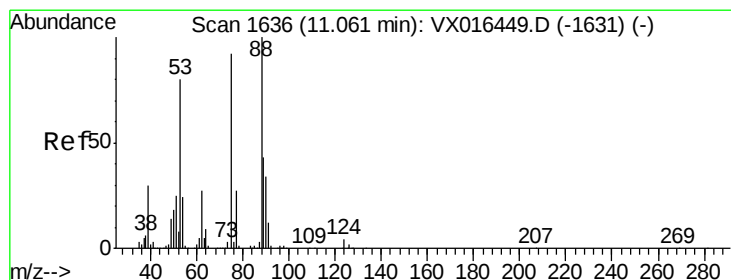
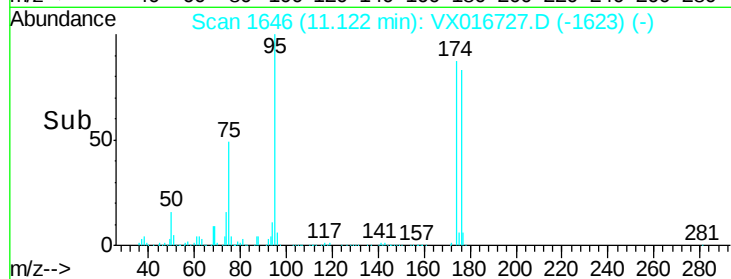
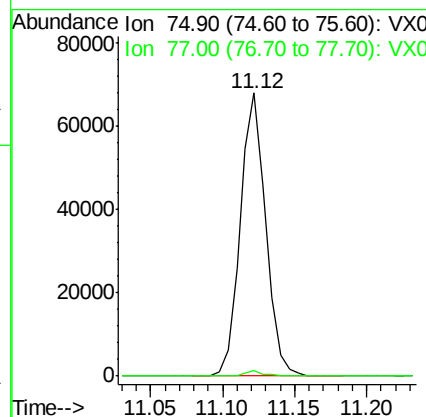
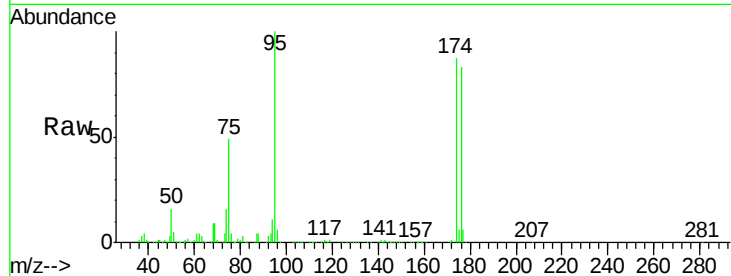
ClientSampleId :

Tot Ion: 75 Resp: 83595

Ion Ratio Lower Upper

75 100

77 1.5 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.590 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016727.D

Acq: 12 Jun 2020 14:47

Tgt Ion: 75 Resp: 83595

Ion Ratio Lower Upper

75 100

53 0.2 71.3 106.9#

89 0.0 36.6 55.0#

