

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016133.D
 Acq On : 08 May 2020 19:51
 Operator : JC/SP
 Sample : L2557-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:53:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	269856	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	457892	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	447324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231622	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	175926	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	5.47	113	140245	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	8.70	98	560684	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.12	95	225133	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	

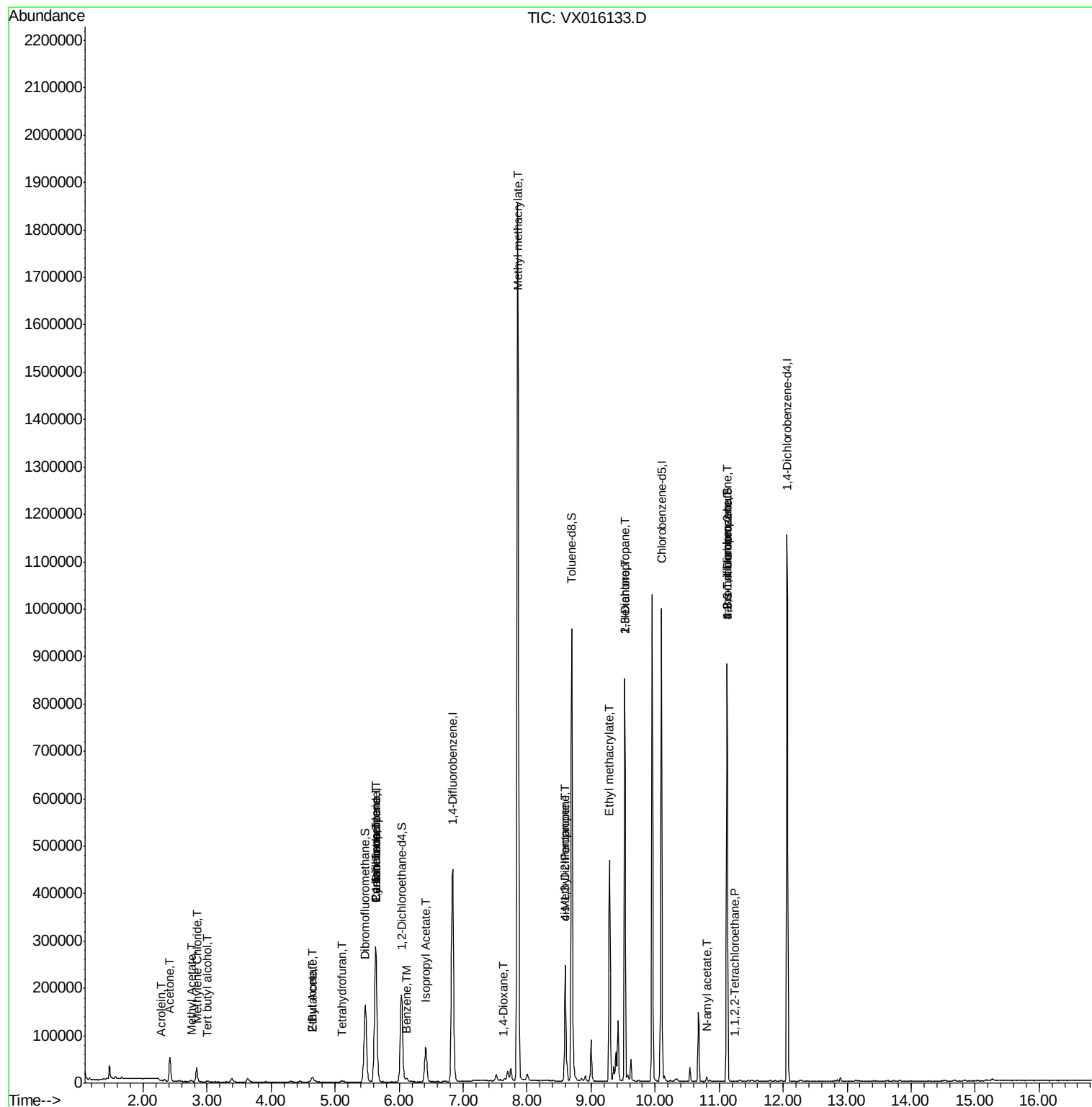
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	1272	1.417	ug/l #	84
13) Acrolein	2.28	56	351	0.625	ug/l #	52
16) Acetone	2.42	43	53046	33.479	ug/l	98
18) Methyl Acetate	2.75	43	4429	1.137	ug/l	94
20) Methylene Chloride	2.84	84	13614	4.168	ug/l	96
25) 2-Butanone	4.64	43	16336	6.398	ug/l	95
29) Tetrahydrofuran	5.10	42	3043	1.799	ug/l #	69
31) Cyclohexane	5.64	56	5508	1.117	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20519	4.552	ug/l #	49
37) Ethyl Acetate	4.64	43	16336	3.127	ug/l #	67
38) Carbon Tetrachloride	5.64	117	26563	5.798	ug/l #	14
40) Benzene	6.12	78	8297	0.629	ug/l	97
43) Isopropyl Acetate	6.42	43	98014	11.759	ug/l	99
48) Methyl methacrylate	7.85	41	152159	38.525	ug/l #	41
49) 1,4-Dioxane	7.62	88	19	0.201	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	91490	17.937	ug/l #	43
54) cis-1,3-Dichloropropene	8.60	75	40645	7.066	ug/l #	58
56) Ethyl methacrylate	9.29	69	1109	0.210	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7229	1.281	ug/l #	45
59) 2-Hexanone	9.52	43	92699	23.142	ug/l #	50
74) N-amyl acetate	10.80	43	4898	0.623	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.24	83	45	2.063	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	114269	21.740	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	114269	51.809	ug/l #	13

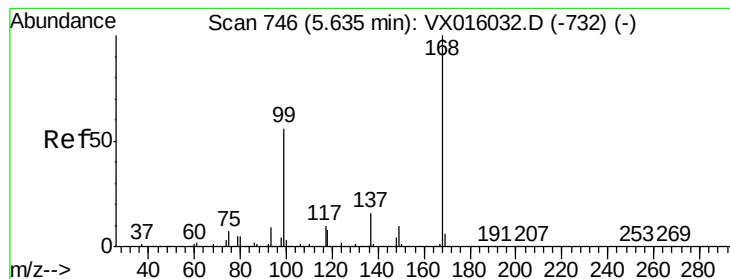
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 09 01:53:11 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

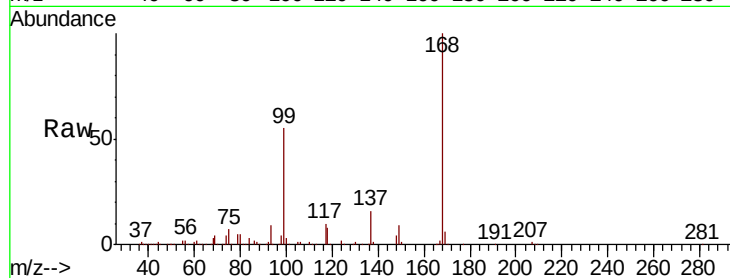
ClientSampleId :

Tot Ion:168 Resp: 269856

Ion Ratio Lower Upper

168 100

99 55.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

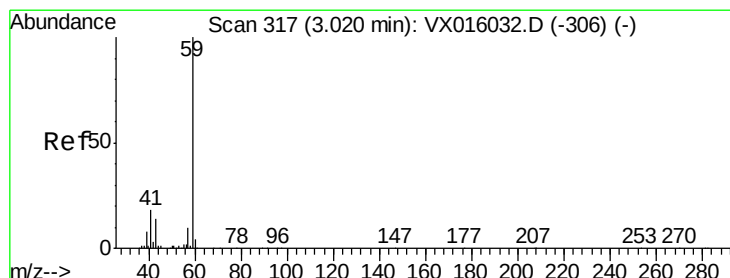
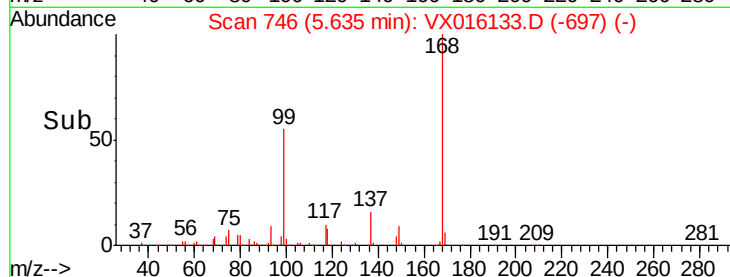
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.417 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016133.D

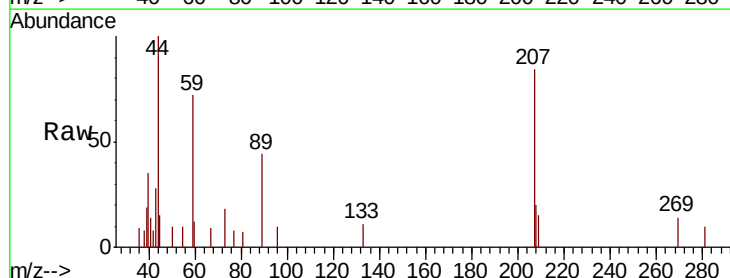
Acq: 08 May 2020 19:51

Tgt Ion: 59 Resp: 1272

Ion Ratio Lower Upper

59 100

57 4.4 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

600

500

400

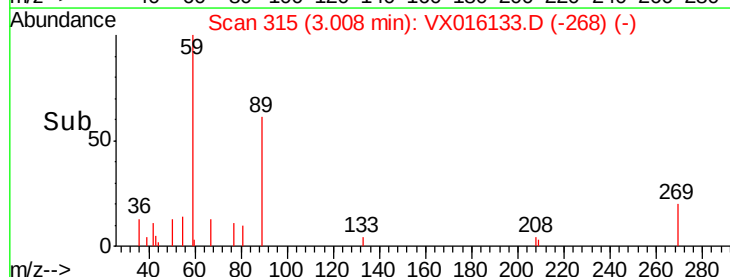
300

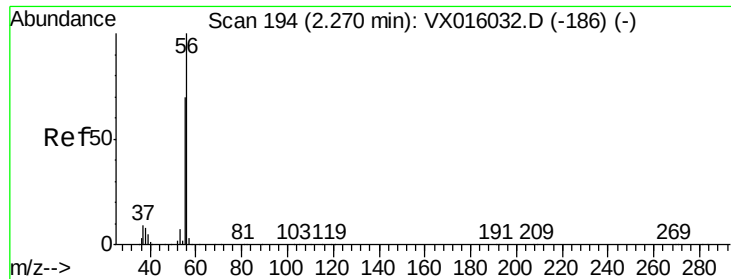
200

100

0

Time-->





#13

Acrolein

Concen: 0.625 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

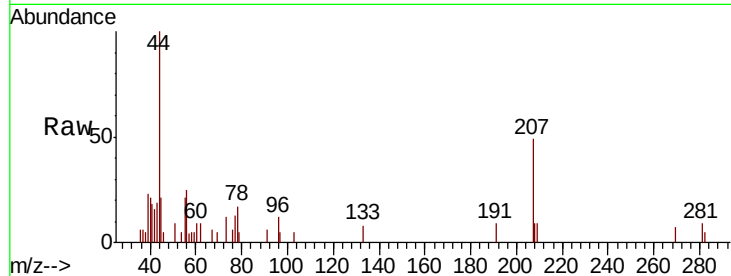
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 351

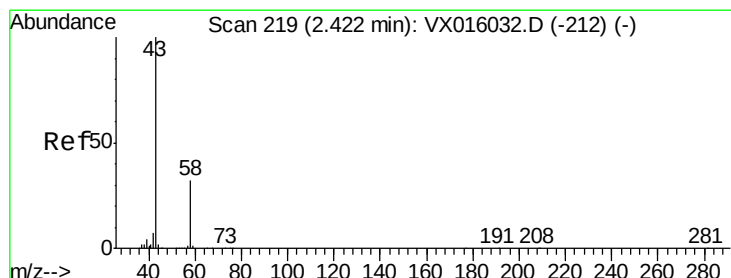
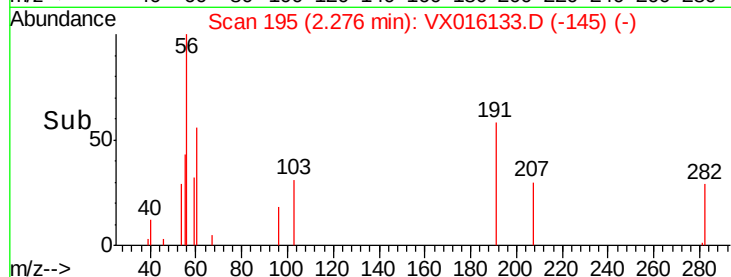
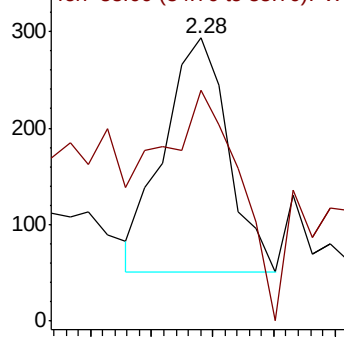
Ion Ratio Lower Upper

56 100

55 110.5 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 33.479 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016133.D

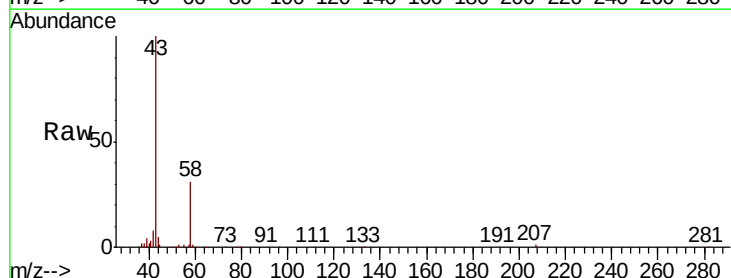
Acq: 08 May 2020 19:51

Tgt Ion: 43 Resp: 53046

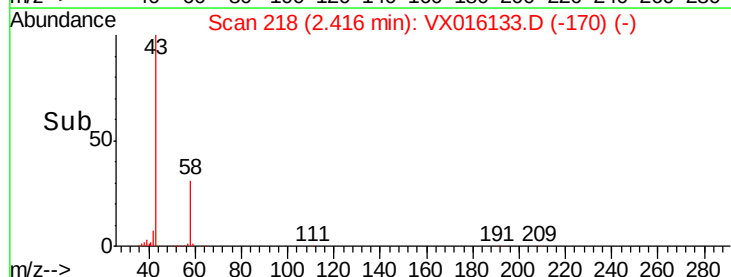
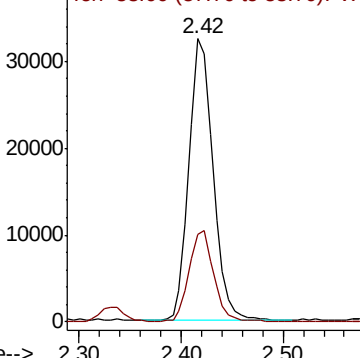
Ion Ratio Lower Upper

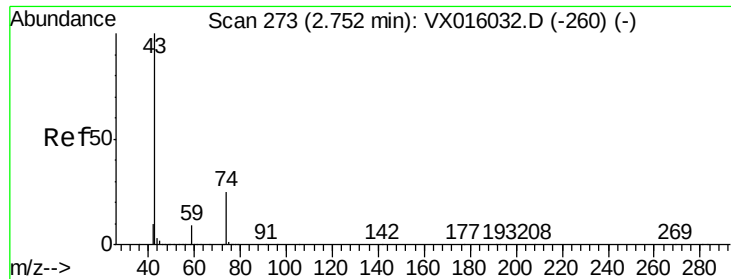
43 100

58 30.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

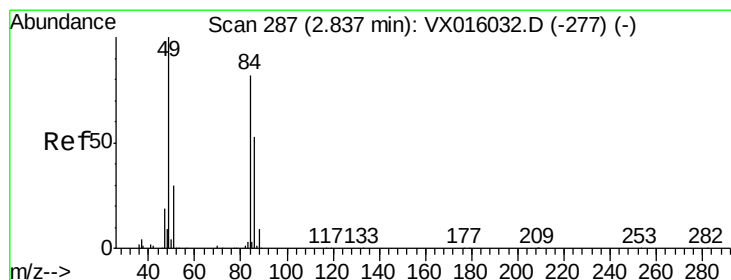
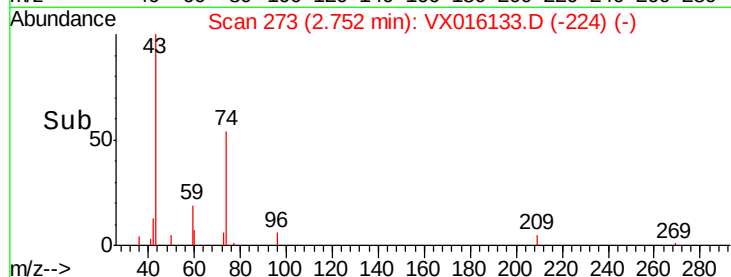
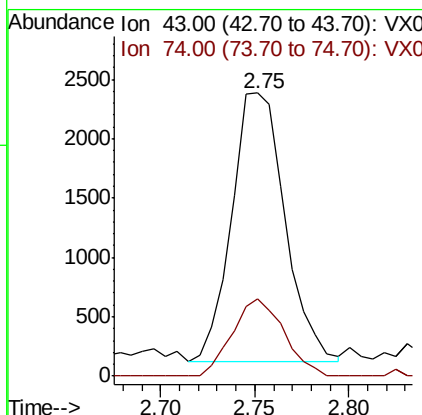
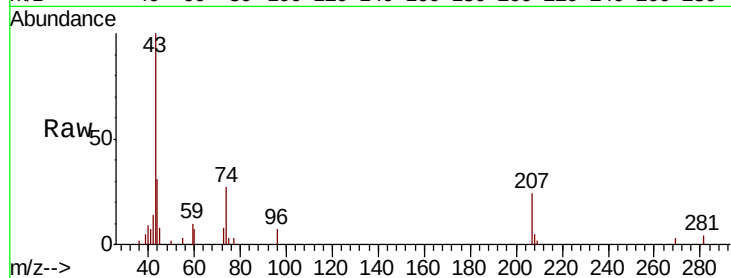




#18
Methyl Acetate
Concen: 1.137 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

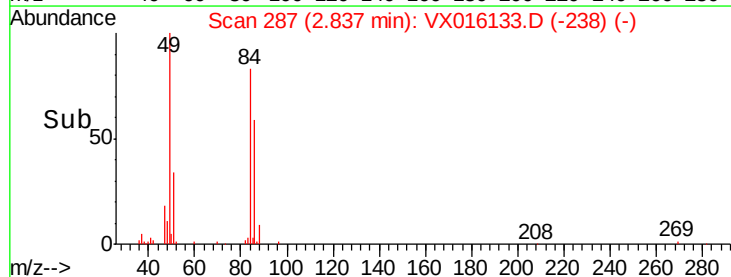
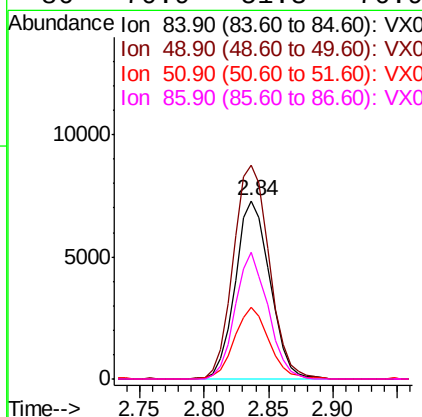
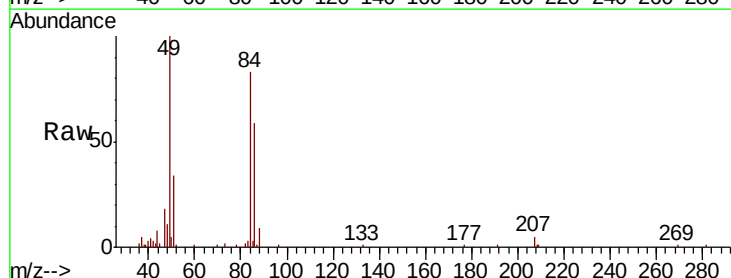
Instrument :
MSVOA_X
ClientSampled :

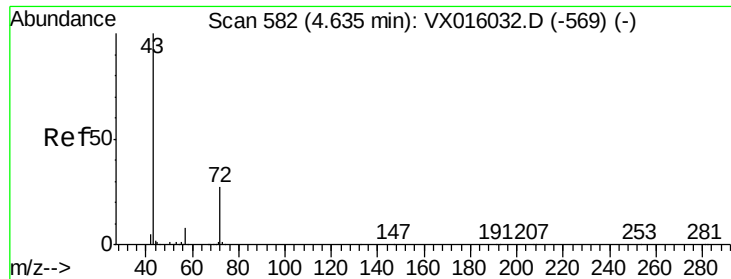
Tot Ion: 43 Resp: 4429
Ion Ratio Lower Upper
43 100
74 28.0 20.2 30.2



#20
Methylene Chloride
Concen: 4.168 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 84 Resp: 13614
Ion Ratio Lower Upper
84 100
49 119.9 97.3 145.9
51 40.6 29.3 43.9
86 70.9 51.3 76.9

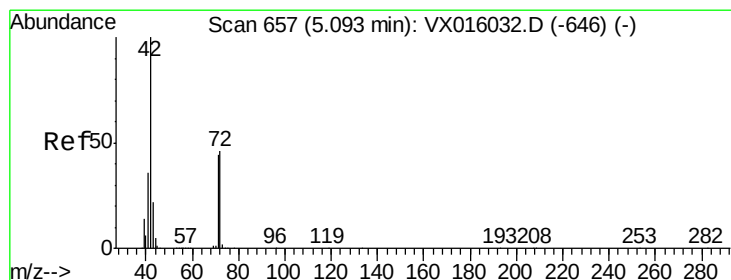
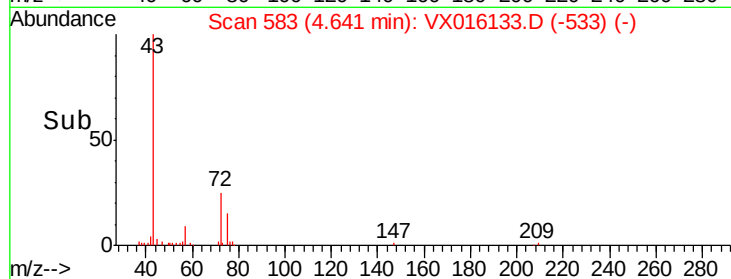
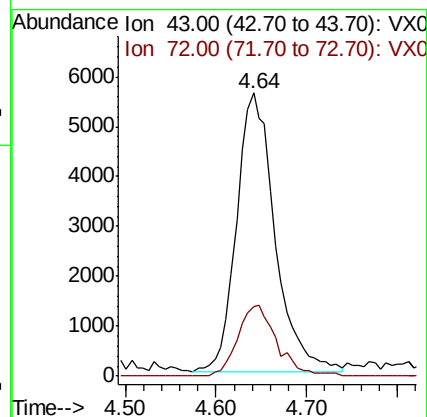
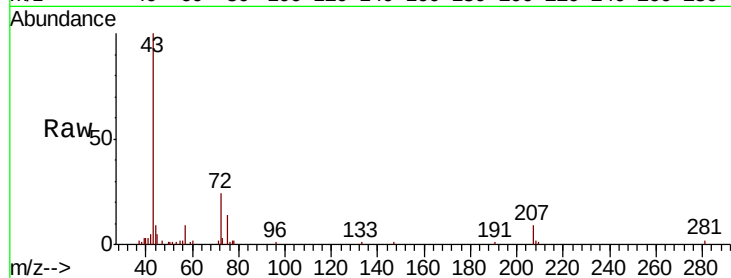




#25
2-Butanone
Concen: 6.398 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

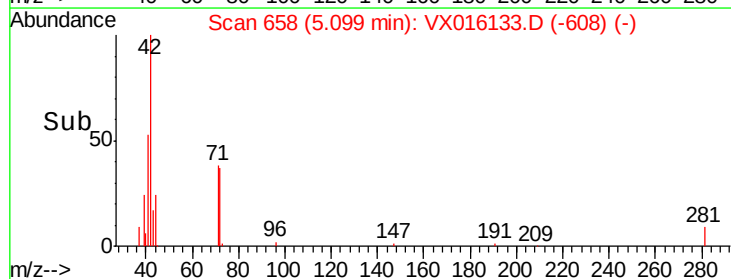
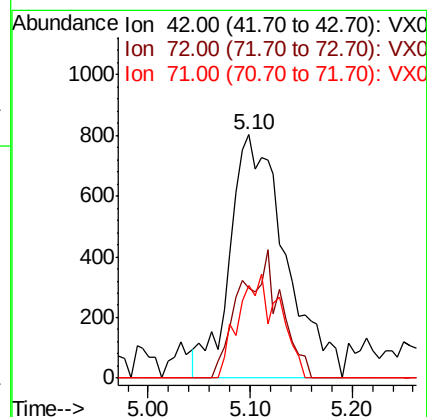
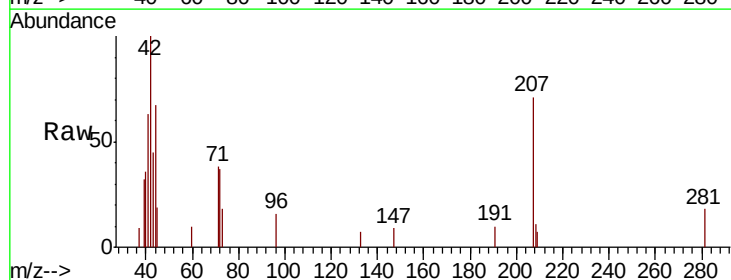
Instrument :
MSVOA_X
ClientSampleId :

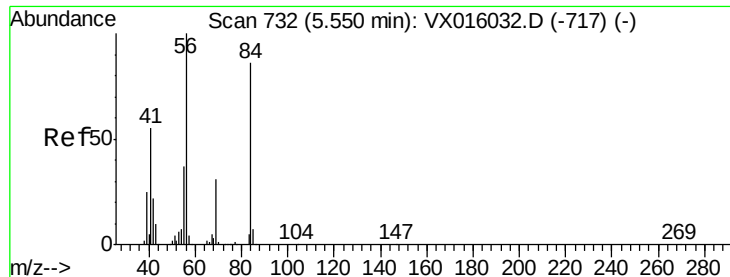
Tot Ion: 43 Resp: 16336
Ion Ratio Lower Upper
43 100
72 24.8 21.8 32.8



#29
Tetrahydrofuran
Concen: 1.799 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 42 Resp: 3043
Ion Ratio Lower Upper
42 100
72 18.0 37.1 55.7#
71 31.4 34.5 51.7#

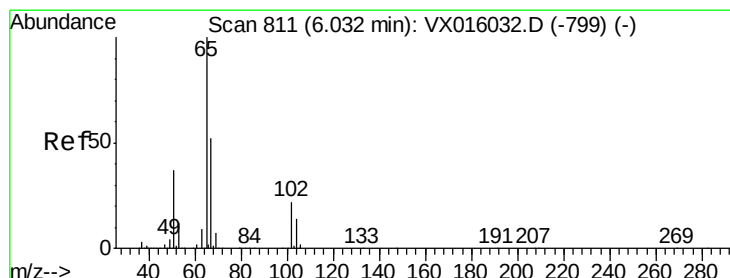
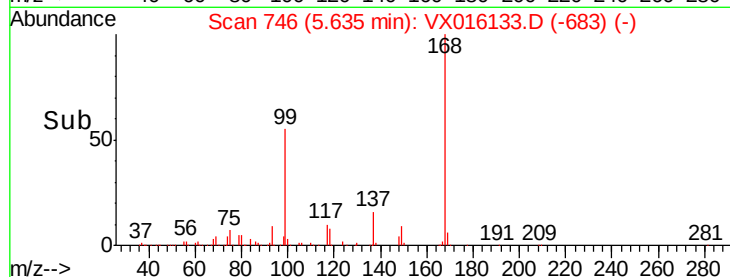
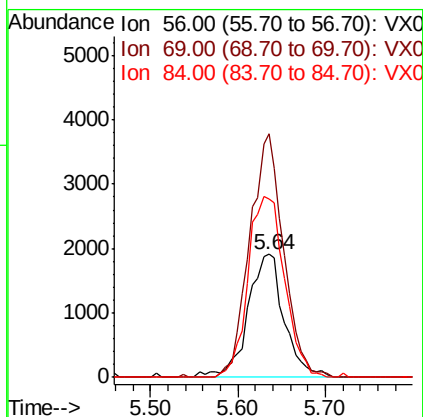
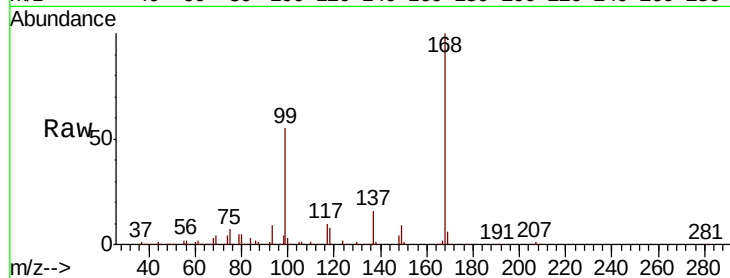




#31
Cyclohexane
Concen: 1.117 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

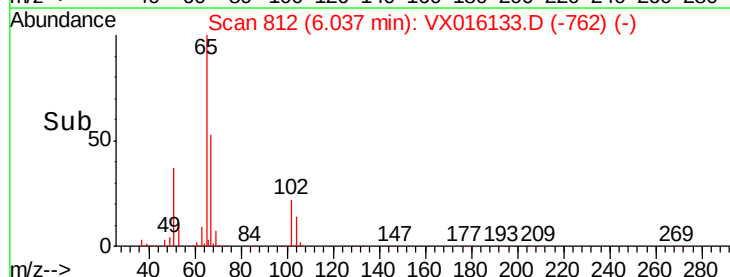
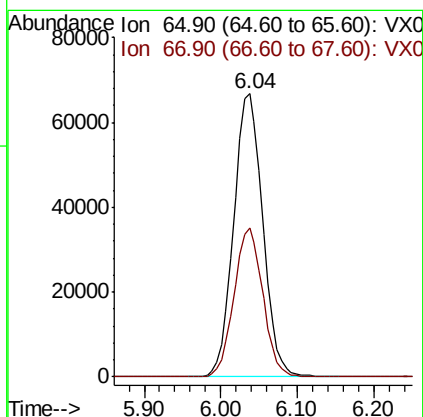
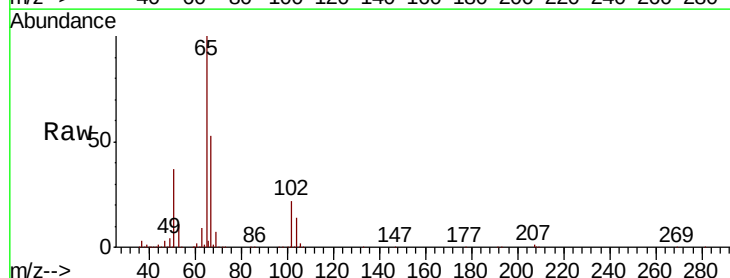
Instrument :
MSVOA_X
ClientSampleId :

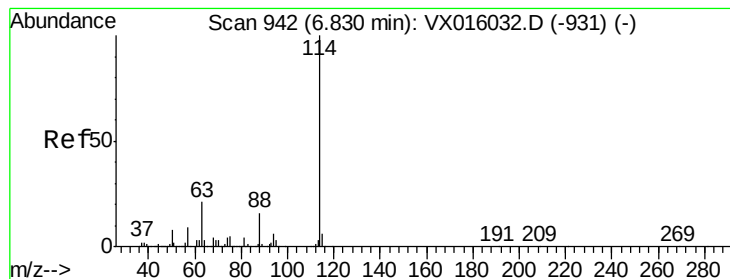
Tot Ion: 56 Resp: 5508
Ion Ratio Lower Upper
56 100
69 197.9 25.0 37.6#
84 145.4 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 49.542 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 65 Resp: 175926
Ion Ratio Lower Upper
65 100
67 52.0 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: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

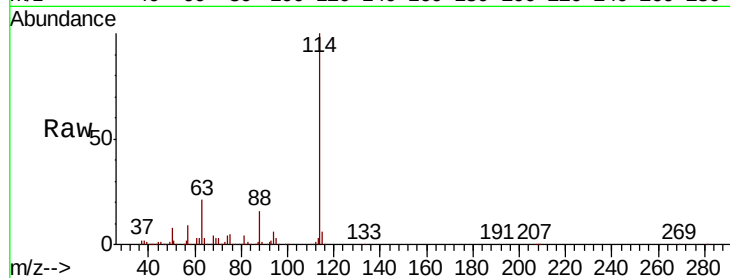
Tot Ion:114 Resp: 457892

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.8

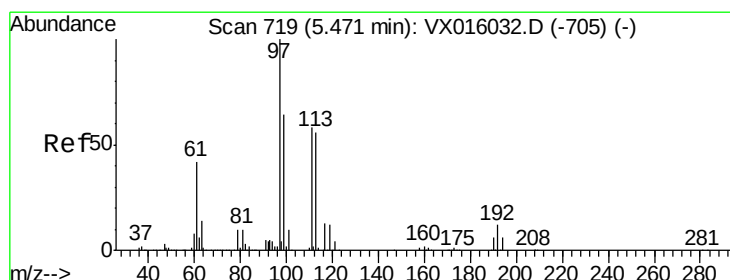
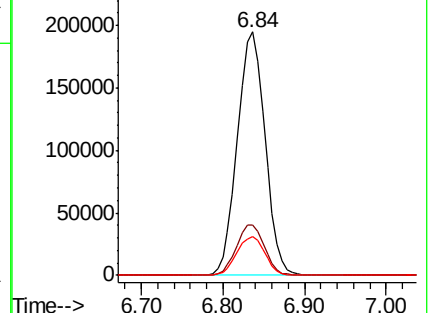
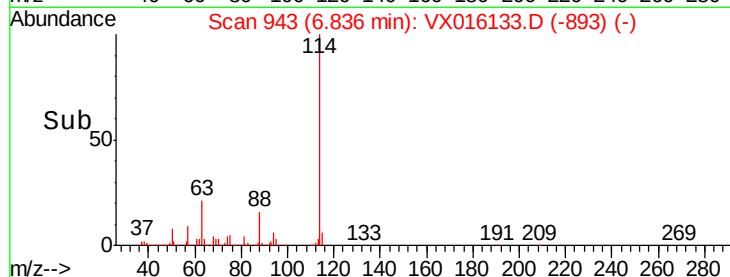
88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.345 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

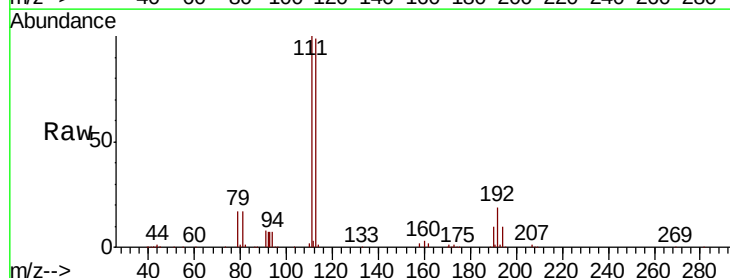
Tgt Ion:113 Resp: 140245

Ion Ratio Lower Upper

113 100

111 102.5 81.6 122.4

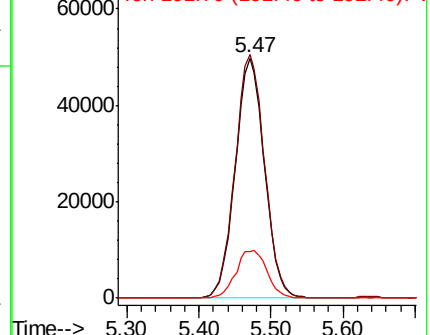
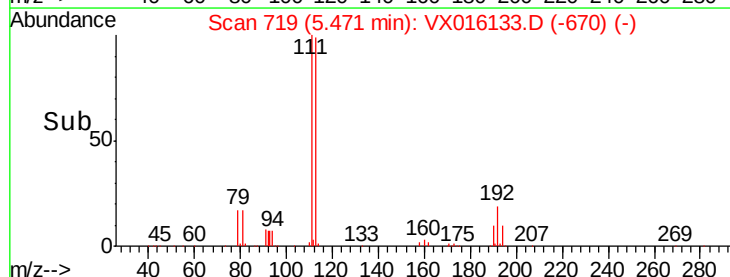
192 21.1 17.0 25.4

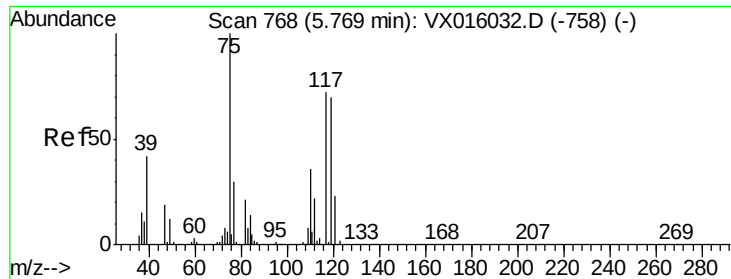


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.552 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

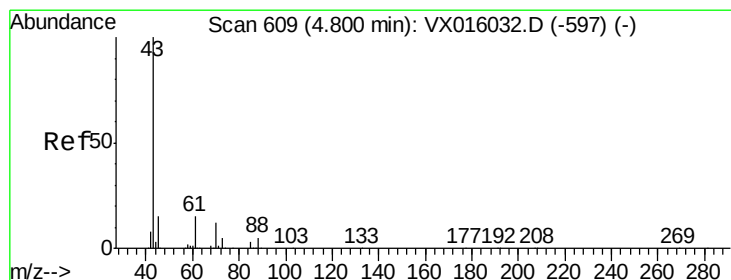
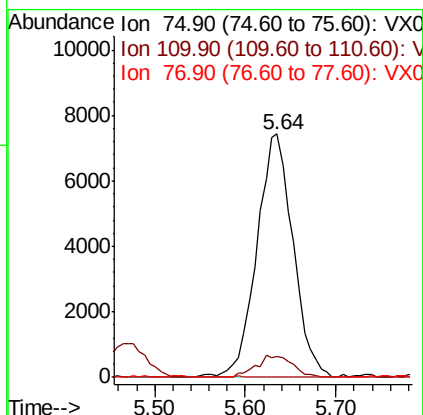
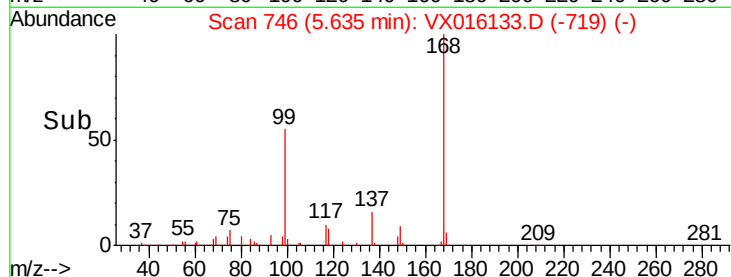
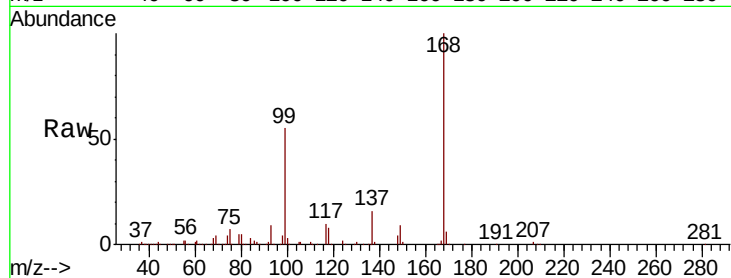
Tot Ion: 75 Resp: 20519

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 3.127 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

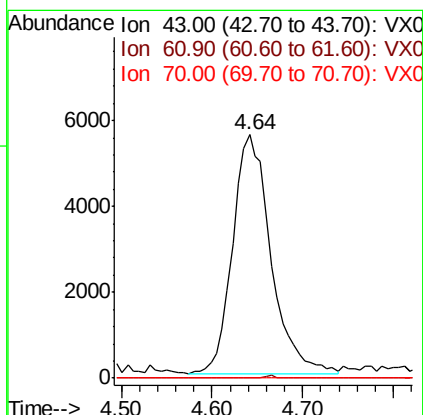
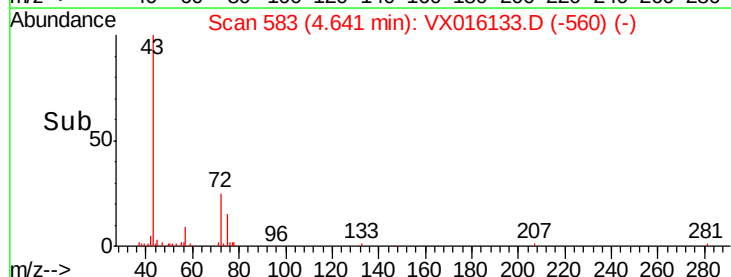
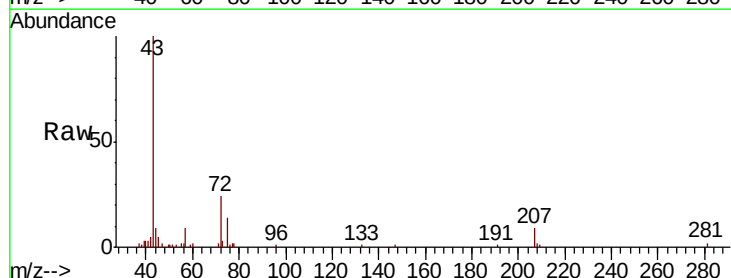
Tgt Ion: 43 Resp: 16336

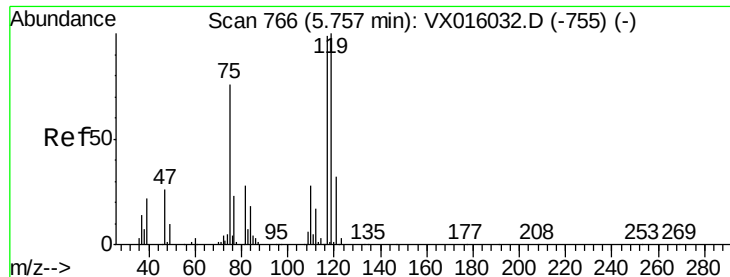
Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 9.3 13.9#

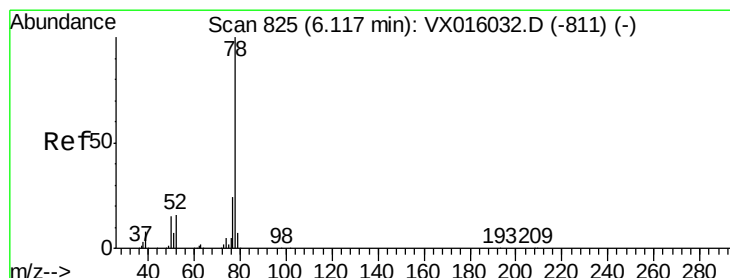
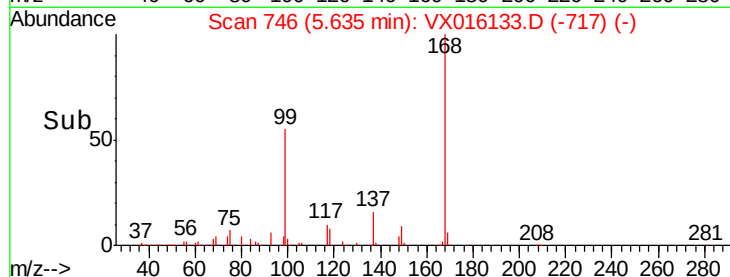
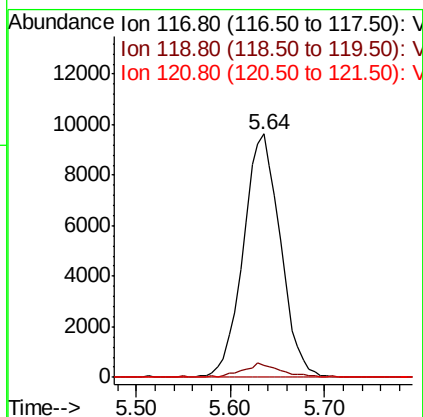
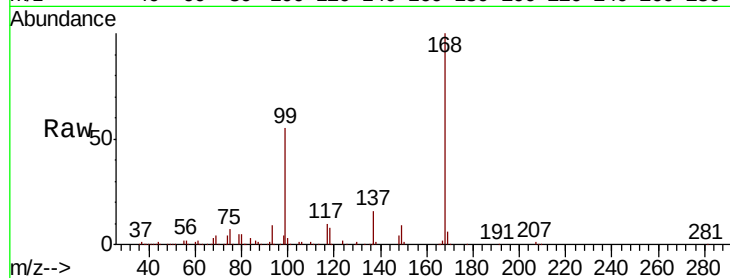




#38
Carbon Tetrachloride
Concen: 5.798 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

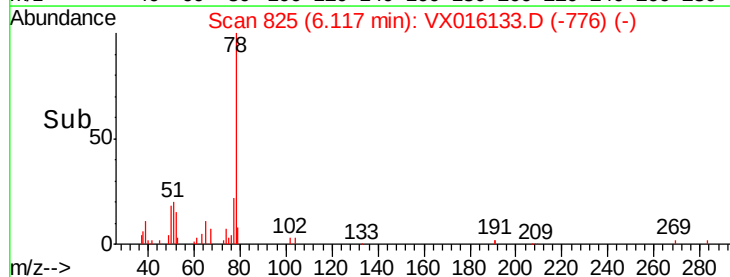
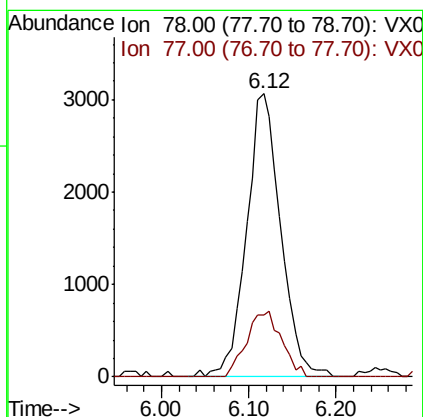
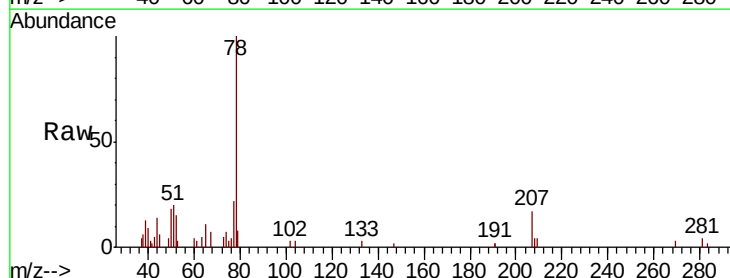
Instrument :
MSVOA_X
ClientSampled :

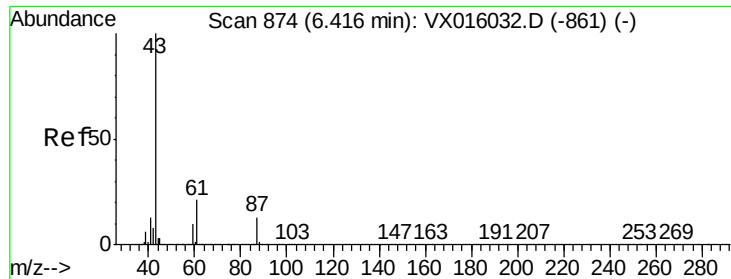
Tot Ion:117 Resp: 26563
Ion Ratio Lower Upper
117 100
119 4.6 80.3 120.5#
121 0.0 25.7 38.5#



#40
Benzene
Concen: 0.629 ug/l
RT: 6.12 min Scan# 825
Delta R.T. -0.00 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 78 Resp: 8297
Ion Ratio Lower Upper
78 100
77 22.0 19.0 28.4





#43

Isopropyl Acetate

Concen: 11.759 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

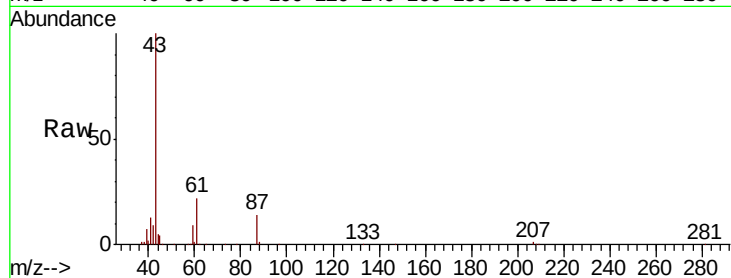
Tot Ion: 43 Resp: 98014

Ion Ratio Lower Upper

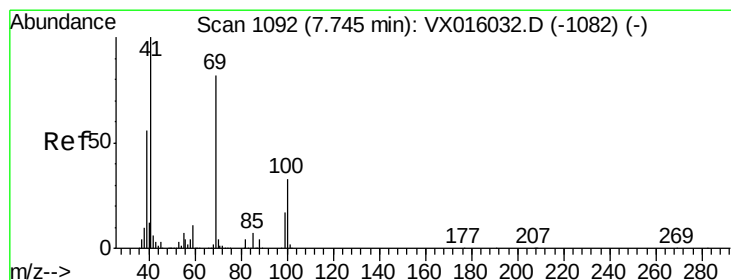
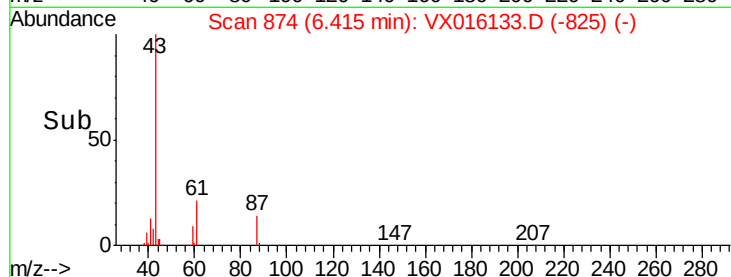
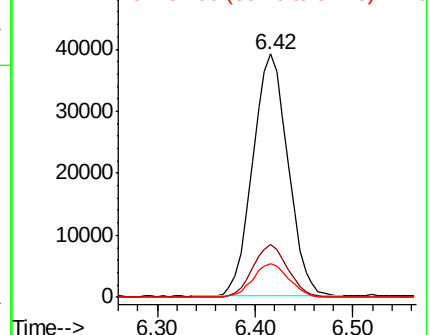
43 100

61 21.8 17.0 25.4

87 14.1 11.0 16.6



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



#48

Methyl methacrylate

Concen: 38.525 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.11 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

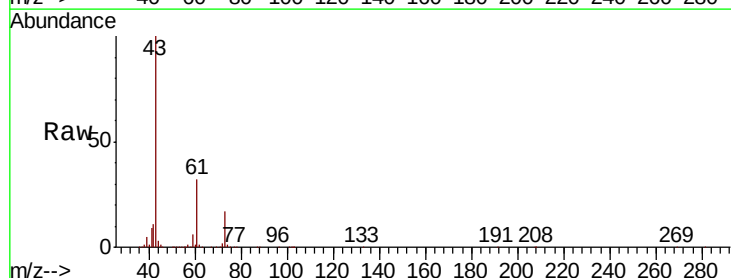
Tgt Ion: 41 Resp: 152159

Ion Ratio Lower Upper

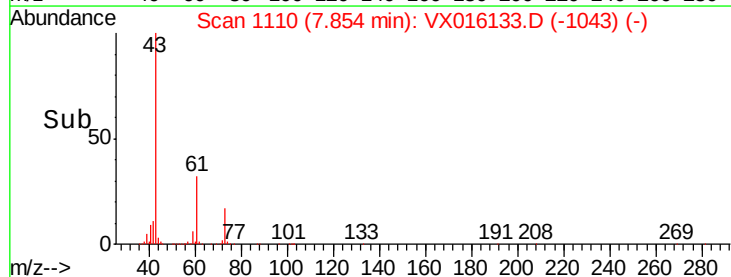
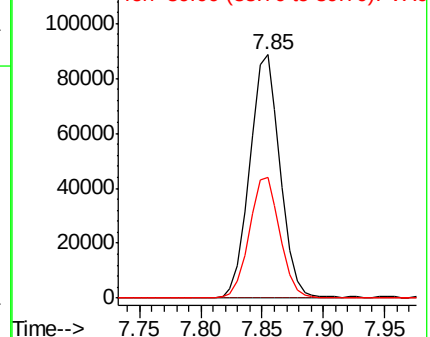
41 100

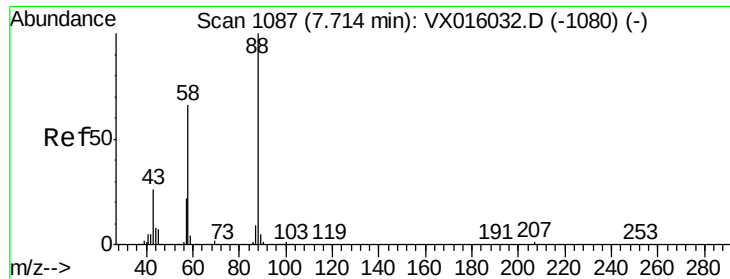
69 0.2 67.8 101.6#

39 50.6 44.6 67.0



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

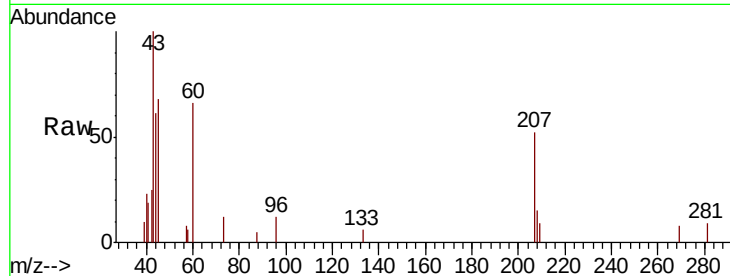




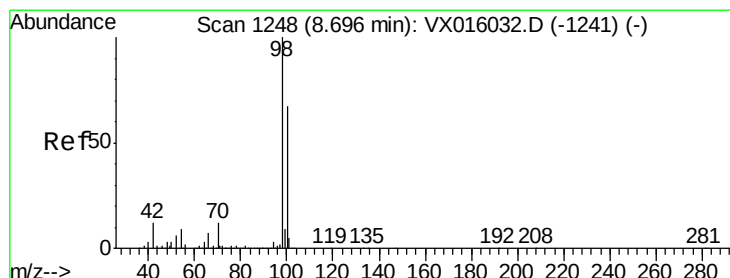
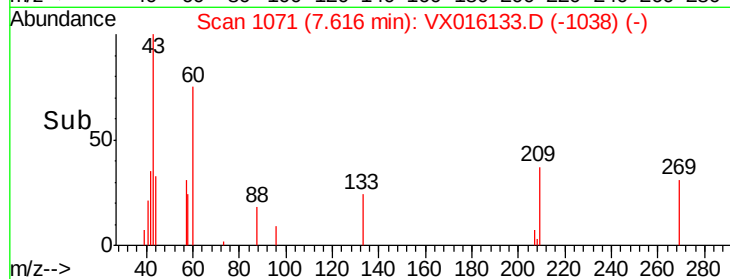
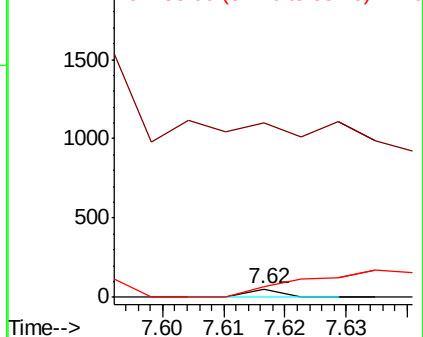
#49
1,4-Dioxane
Concen: 0.201 ug/l
RT: 7.62 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 1689.5 55.9 83.9#

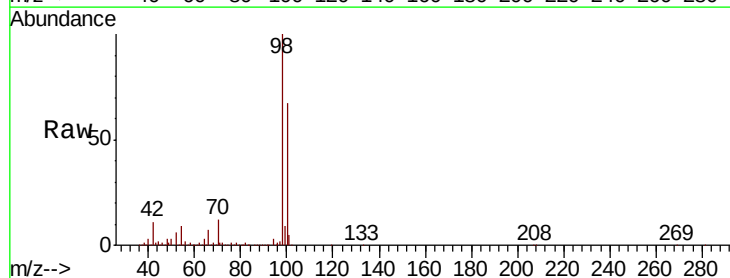


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

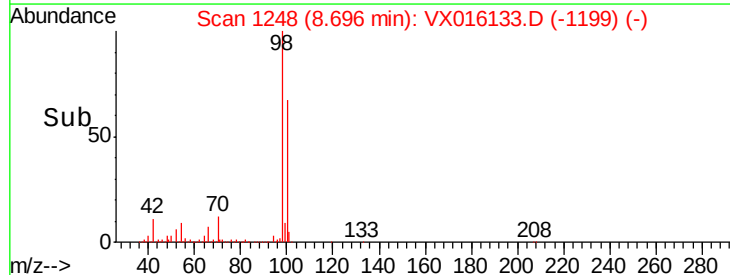
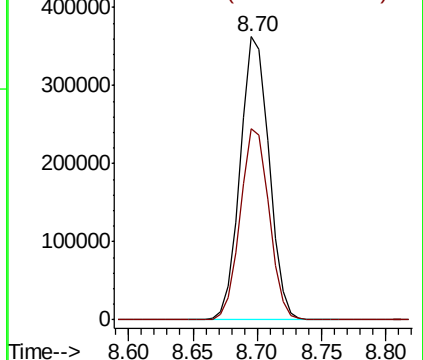


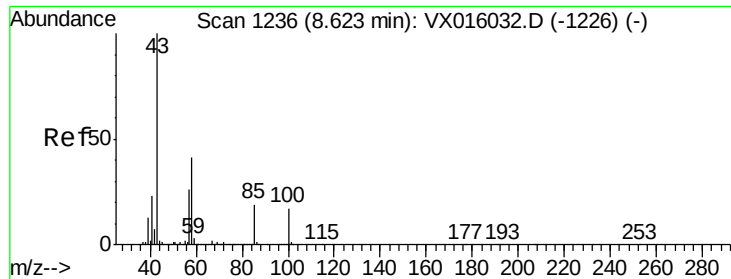
#50
Toluene-d8
Concen: 50.162 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 98 Resp: 560684
Ion Ratio Lower Upper
98 100
100 67.4 53.7 80.5



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: 17.937 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

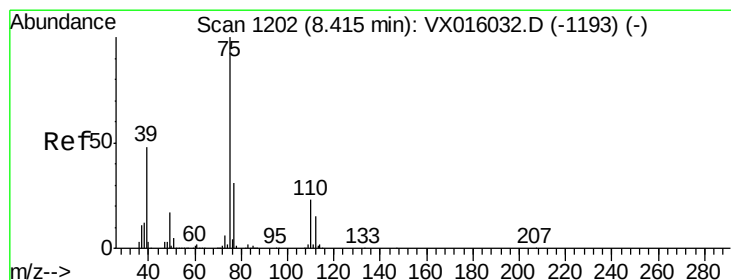
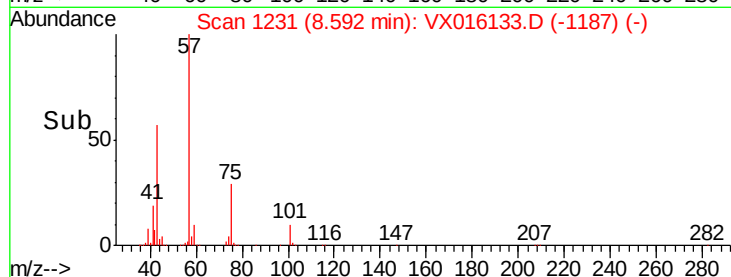
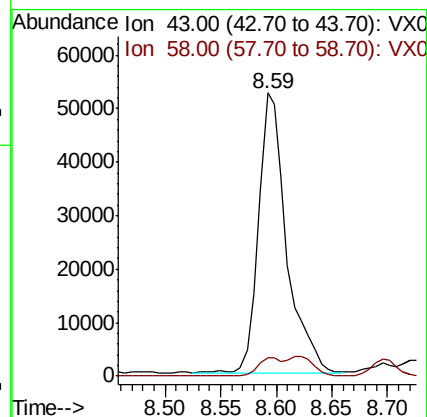
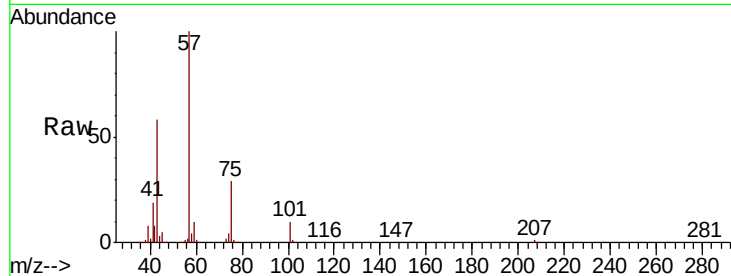
ClientSampleId :

Tot Ion: 43 Resp: 91490

Ion Ratio Lower Upper

43 100

58 5.6 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 7.066 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

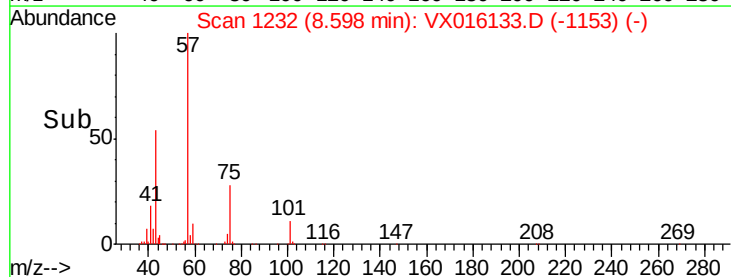
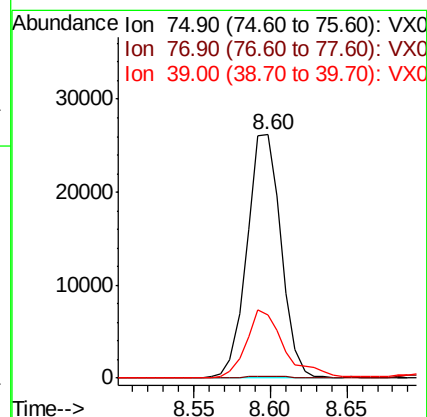
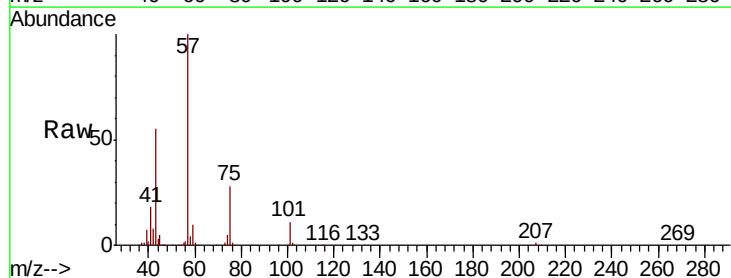
Tgt Ion: 75 Resp: 40645

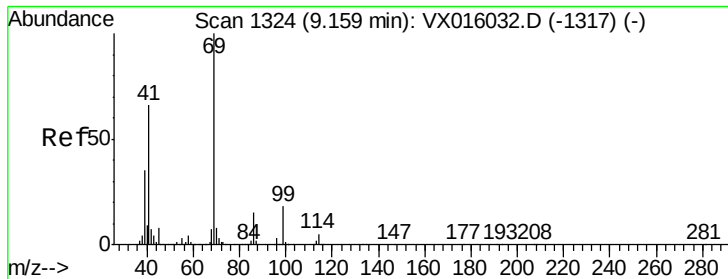
Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

39 25.7 38.7 58.1#





#56

Ethyl methacrylate

Concen: 0.210 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

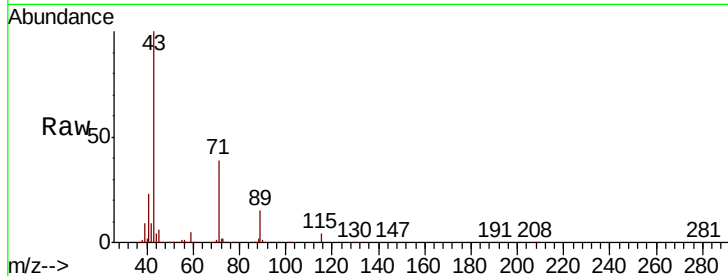
Tot Ion: 69 Resp: 1109

Ion Ratio Lower Upper

69 100

41 5964.4 52.2 78.4#

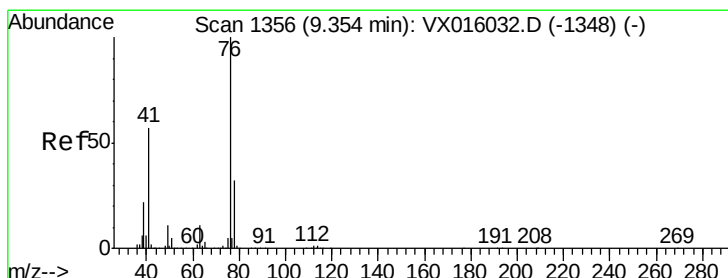
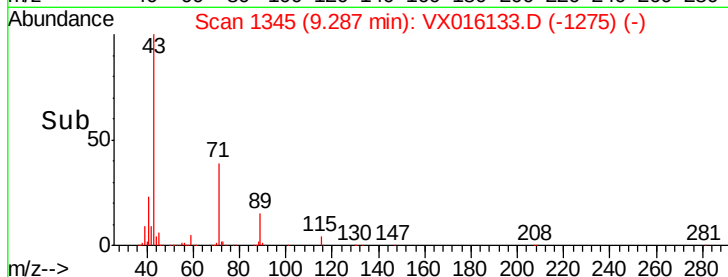
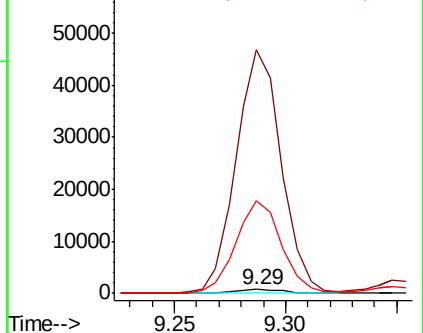
39 2292.3 28.2 42.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.281 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016133.D

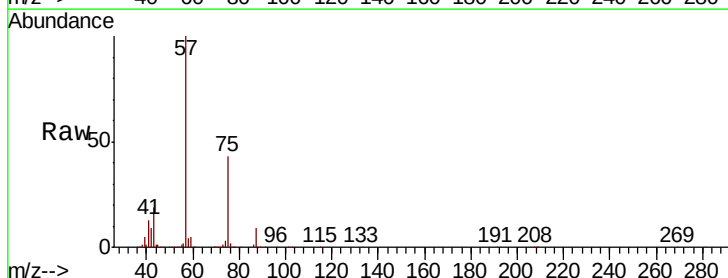
Acq: 08 May 2020 19:51

Tgt Ion: 76 Resp: 7229

Ion Ratio Lower Upper

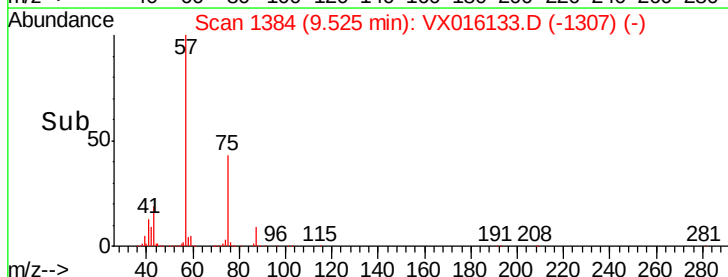
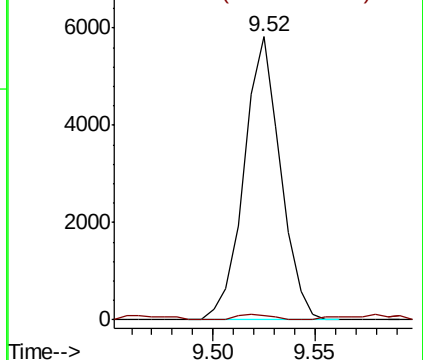
76 100

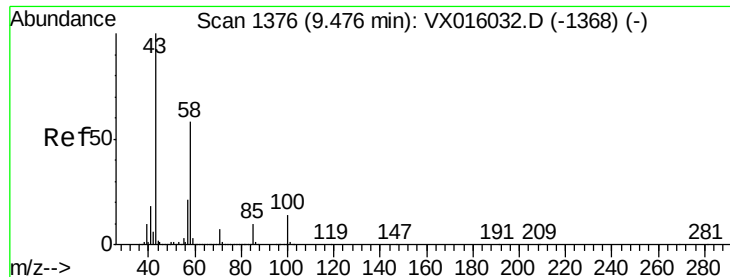
78 1.7 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

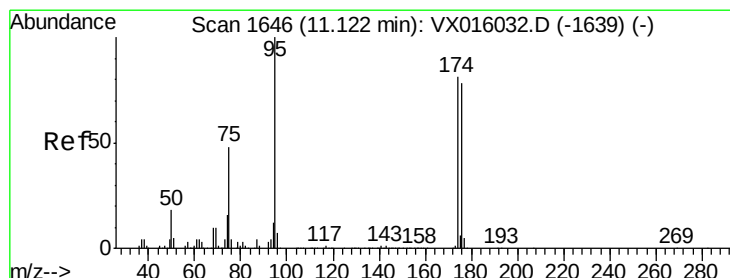
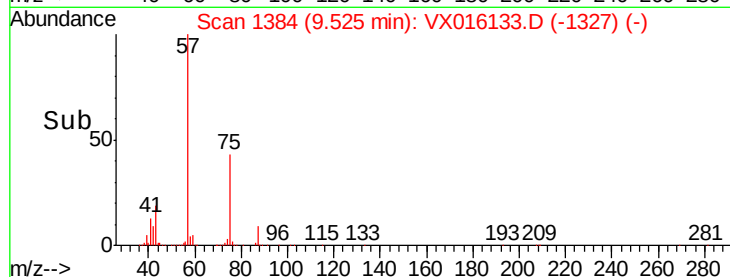
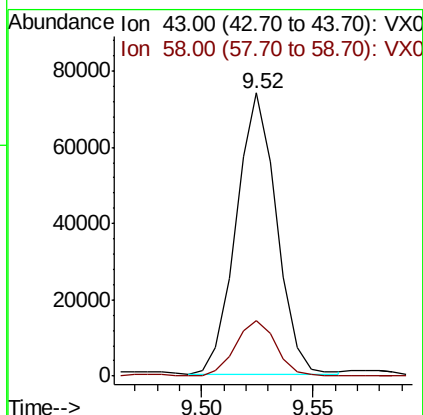
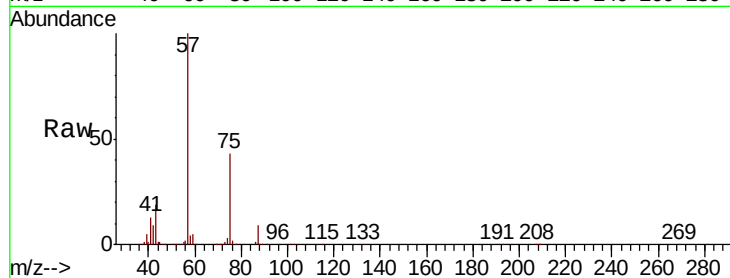




#59
2-Hexanone
Concen: 23.142 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

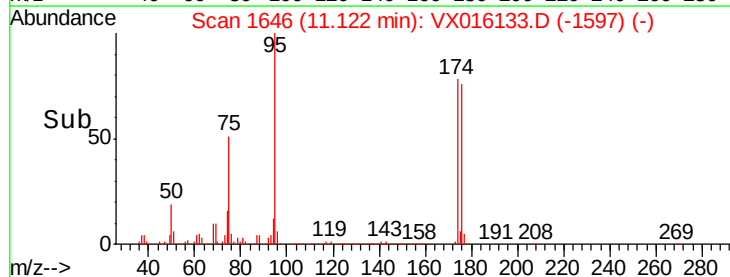
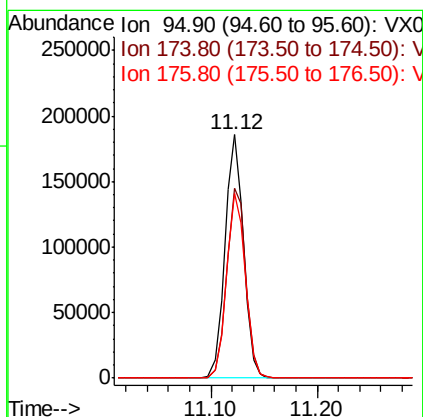
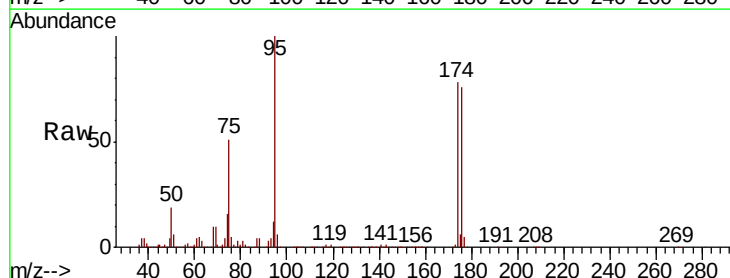
Instrument :
MSVOA_X
ClientSampled :

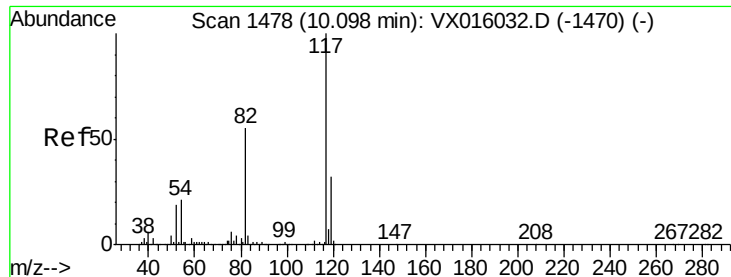
Tot Ion: 43 Resp: 92699
Ion Ratio Lower Upper
43 100
58 20.3 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 52.955 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016133.D
Acq: 08 May 2020 19:51

Tgt Ion: 95 Resp: 225133
Ion Ratio Lower Upper
95 100
174 80.8 0.0 159.4
176 77.6 0.0 157.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

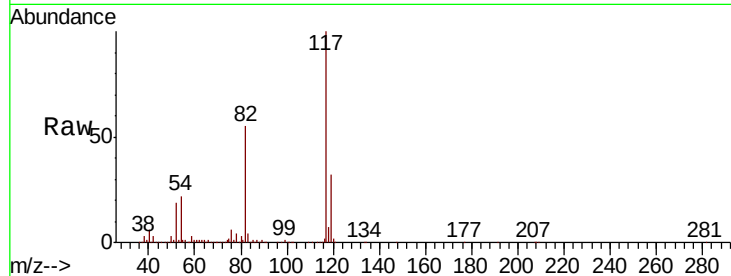
Tot Ion:117 Resp: 447324

Ion Ratio Lower Upper

117 100

82 55.2 44.4 66.6

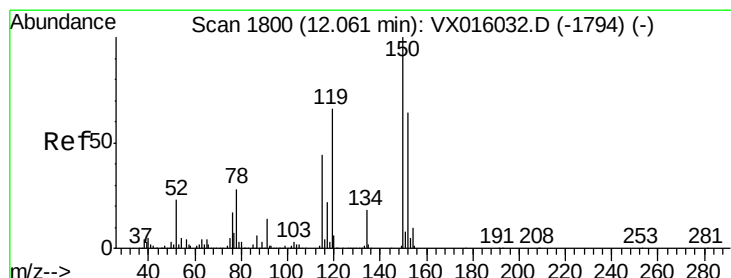
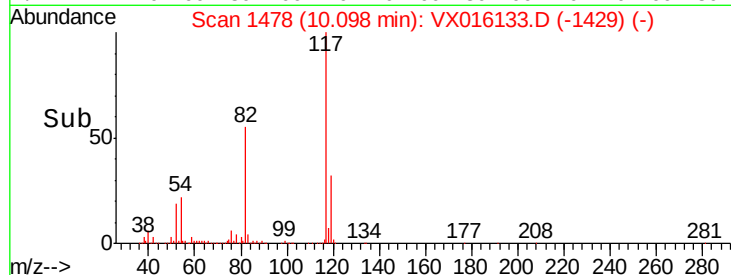
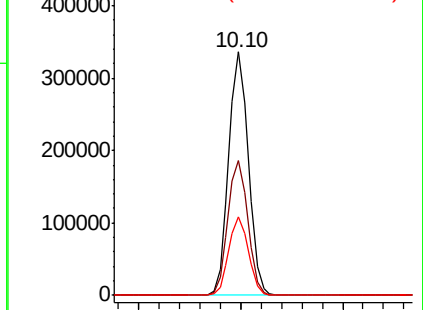
119 32.5 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

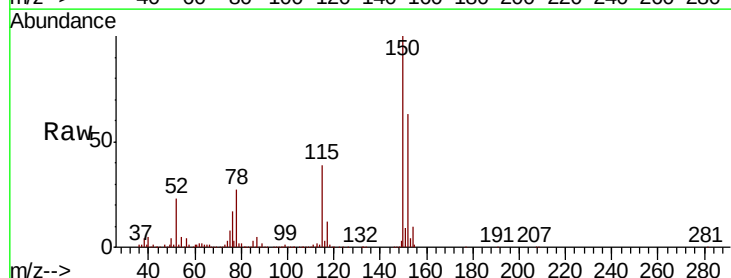
Tgt Ion:152 Resp: 231622

Ion Ratio Lower Upper

152 100

115 59.5 41.3 124.1

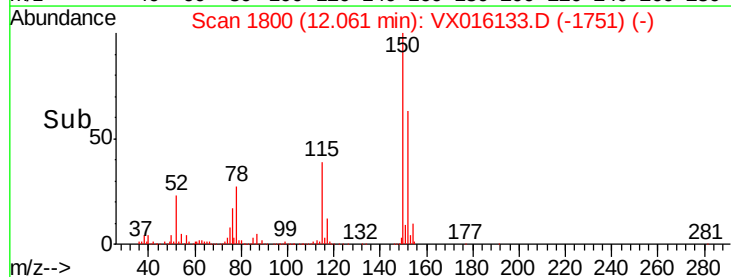
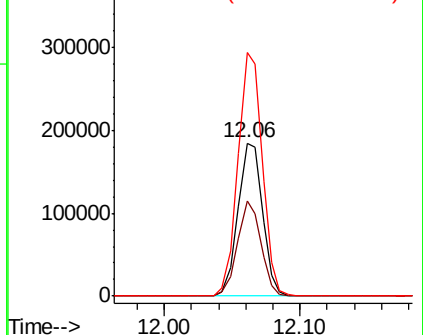
150 157.9 0.0 352.2

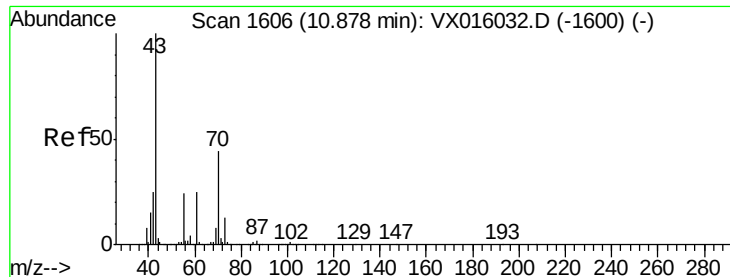


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.623 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 4898

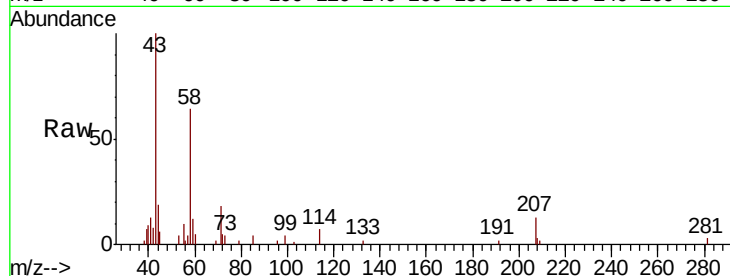
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 9.9 19.7 29.5#

61 0.0 20.9 31.3#

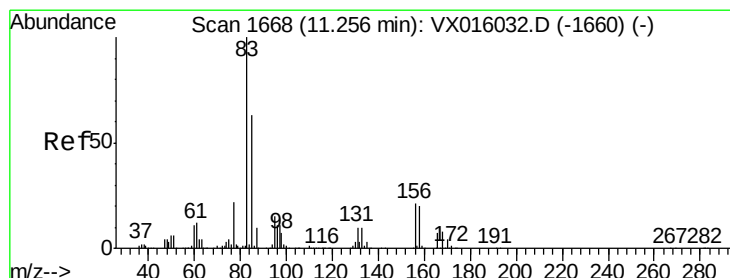
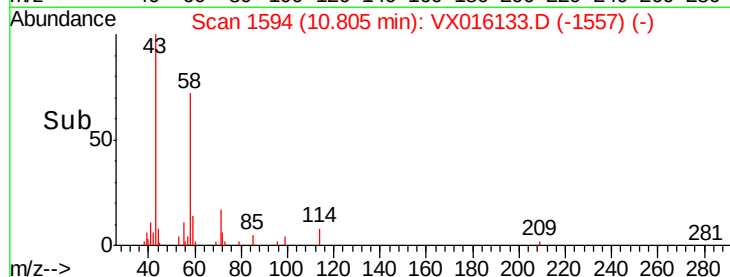
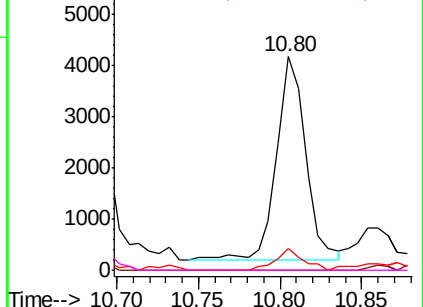


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.063 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. -0.02 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

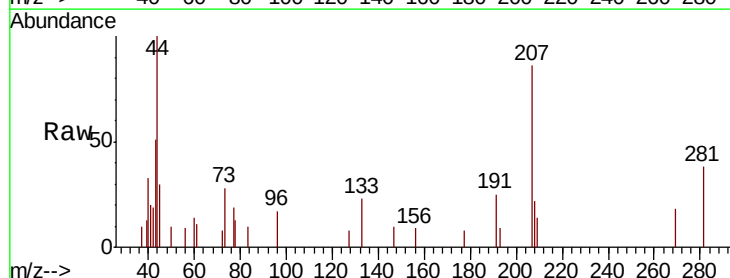
Tgt Ion: 83 Resp: 45

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

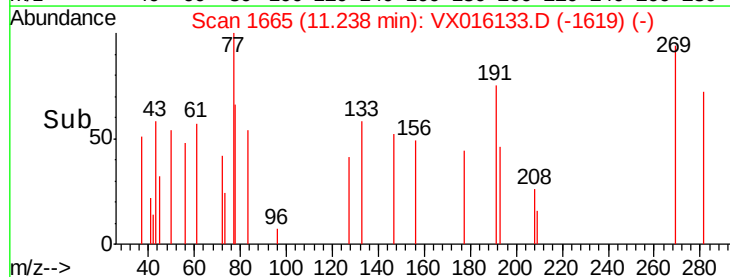
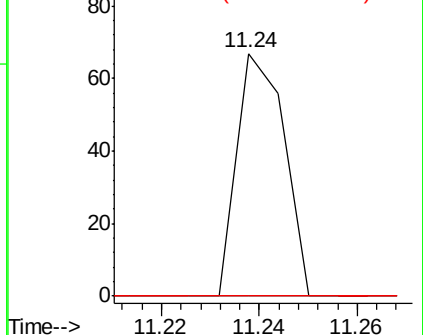
85 0.0 32.0 96.0#

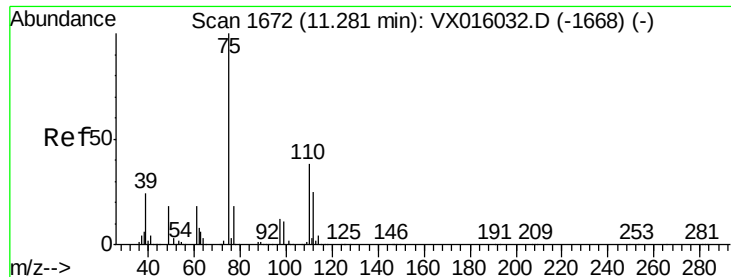


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.740 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

Instrument :

MSVOA_X

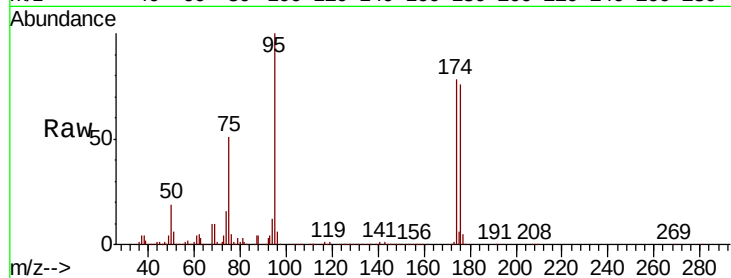
ClientSampleId :

Tot Ion: 75 Resp: 114269

Ion Ratio Lower Upper

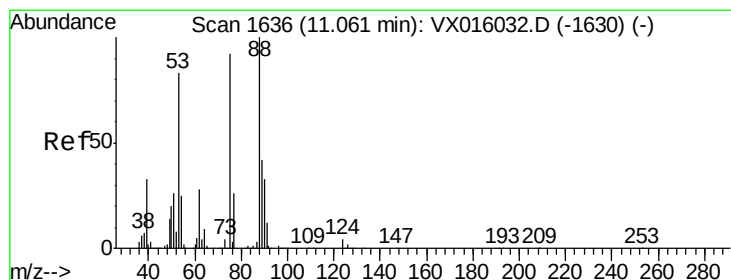
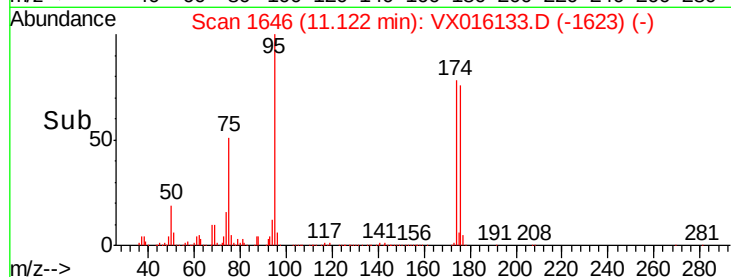
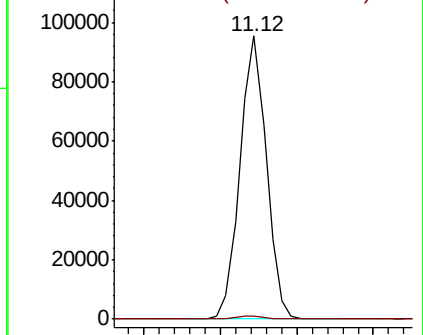
75 100

77 1.4 21.2 63.6#



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: 51.809 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016133.D

Acq: 08 May 2020 19:51

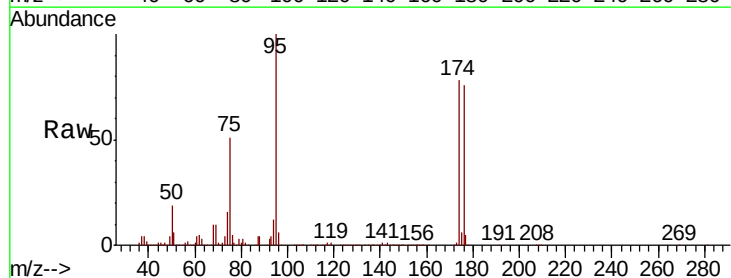
Tgt Ion: 75 Resp: 114269

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

