

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052220\
 Data File : VX016405.D
 Acq On : 22 May 2020 12:35
 Operator : JC/SP
 Sample : L2728-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

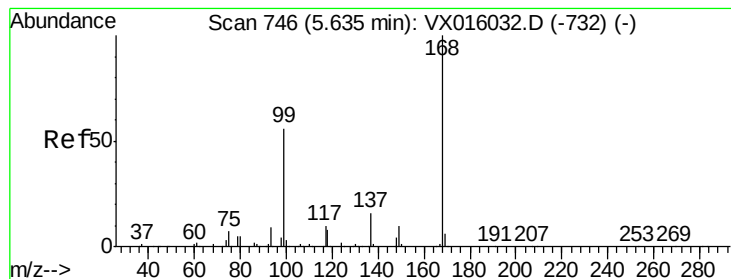
Quant Time: May 23 01:34:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	227070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	372565	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	374980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	182903	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	127712	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	
35) Dibromofluoromethane	5.47	113	108667	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	8.70	98	461092	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.12	95	184656	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	542	0.717	ug/l #	72
13) Acrolein	2.27	56	168	0.355	ug/l #	11
16) Acetone	2.42	43	13903	10.428	ug/l	93
17) Carbon Disulfide	2.56	76	994	Below Cal	#	74
18) Methyl Acetate	2.75	43	2477	0.756	ug/l	90
20) Methylene Chloride	2.84	84	4144	1.508	ug/l	89
25) 2-Butanone	4.64	43	2419	1.126	ug/l	97
29) Tetrahydrofuran	5.09	42	308	0.216	ug/l #	57
31) Cyclohexane	5.64	56	3919	0.944	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	15444	4.211	ug/l #	49
38) Carbon Tetrachloride	5.63	117	21558	5.783	ug/l #	16
43) Isopropyl Acetate	6.42	43	47248	6.967	ug/l	97
48) Methyl methacrylate	7.65	41	3307	1.029	ug/l #	14
49) 1,4-Dioxane	7.85	88	93	1.207	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	44567	10.739	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	22715	4.854	ug/l #	53
57) 1,3-Dichloropropane	9.52	76	3301	0.719	ug/l #	44
59) 2-Hexanone	9.52	43	38322	11.758	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	11.12	83	87	2.084	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	86728	20.896	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	86728	49.796	ug/l #	13
94) Hexachlorobutadiene	13.77	225	138	0.596	ug/l	84

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

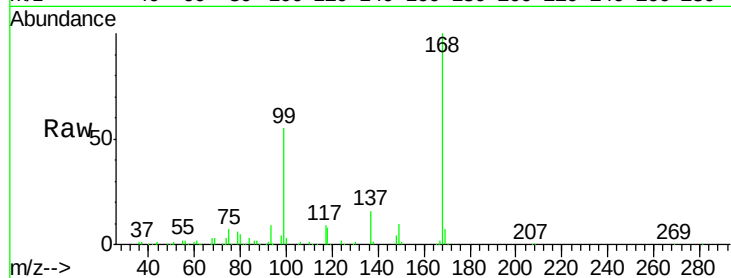
ClientSampleId :

Tot Ion:168 Resp: 227070

Ion Ratio Lower Upper

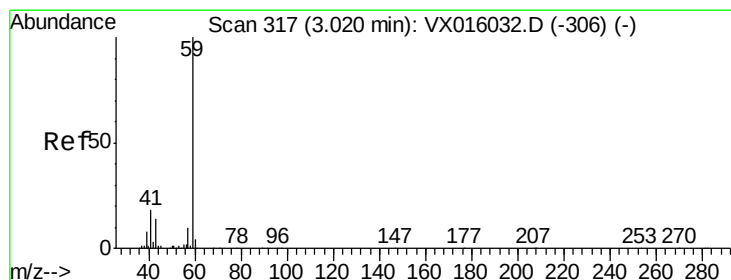
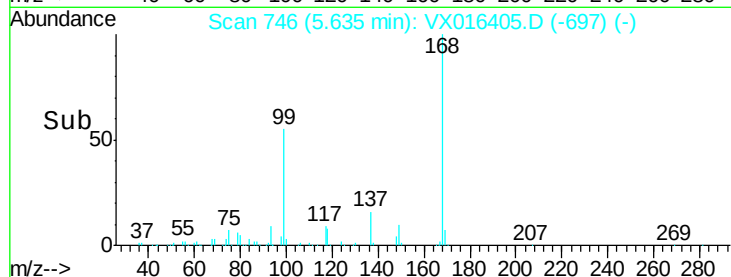
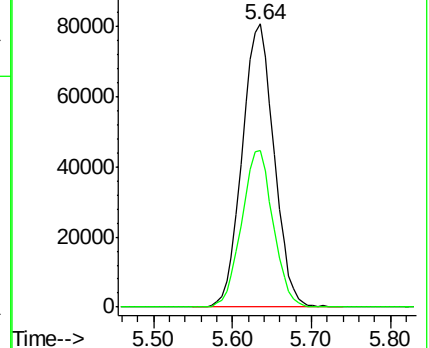
168 100

99 55.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 0.717 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016405.D

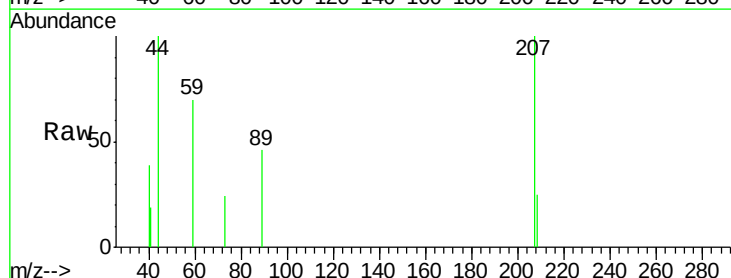
Acq: 22 May 2020 12:35

Tgt Ion: 59 Resp: 542

Ion Ratio Lower Upper

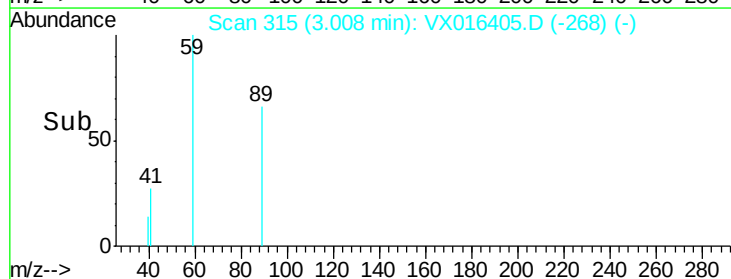
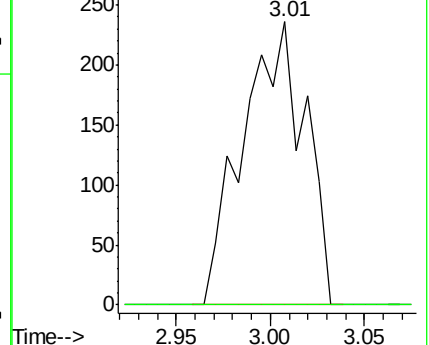
59 100

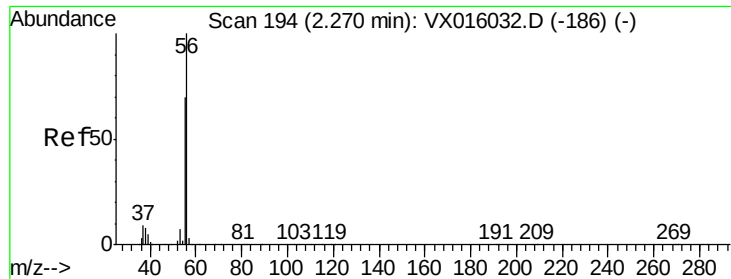
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.355 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

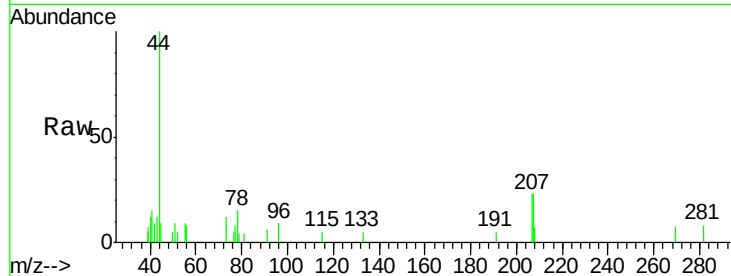
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 168

Ion Ratio Lower Upper

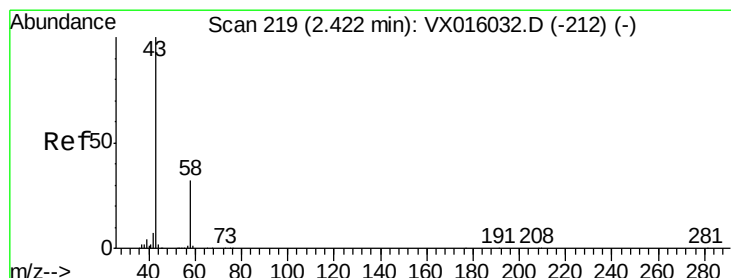
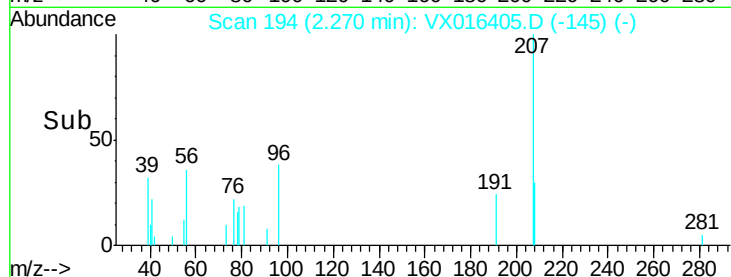
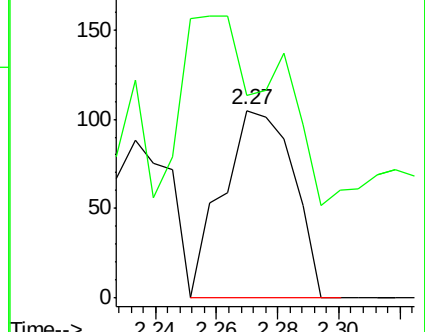
56 100

55 144.0 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: 10.428 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016405.D

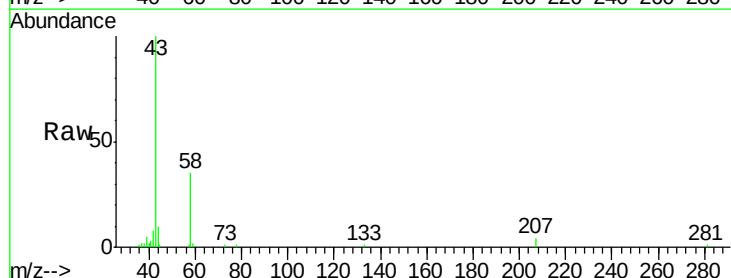
Acq: 22 May 2020 12:35

Tgt Ion: 43 Resp: 13903

Ion Ratio Lower Upper

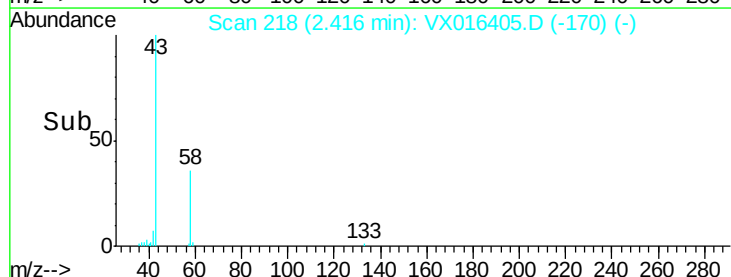
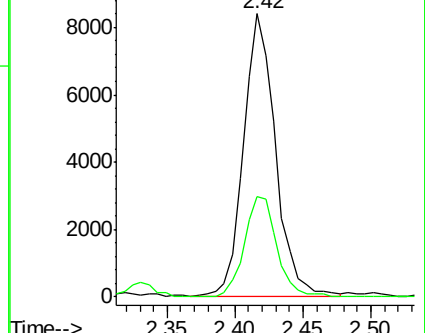
43 100

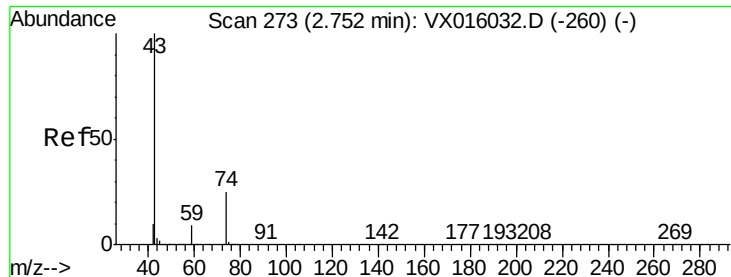
58 35.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

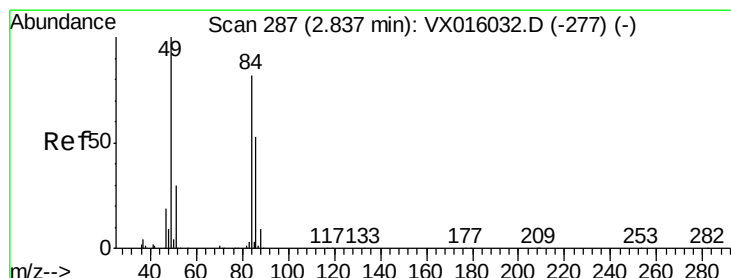
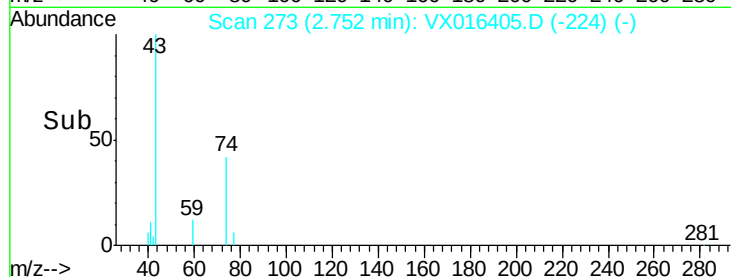
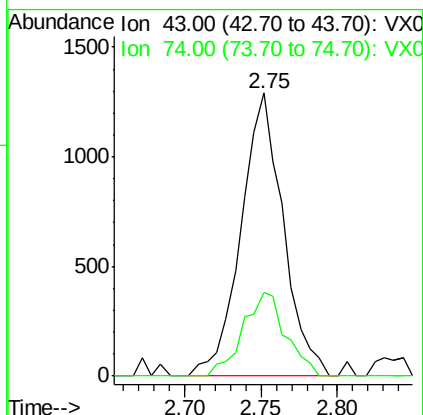
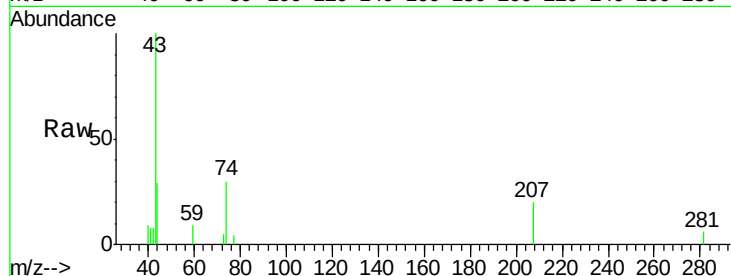




#18
Methvl Acetate
Concen: 0.756 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016405.D
Acq: 22 May 2020 12:35

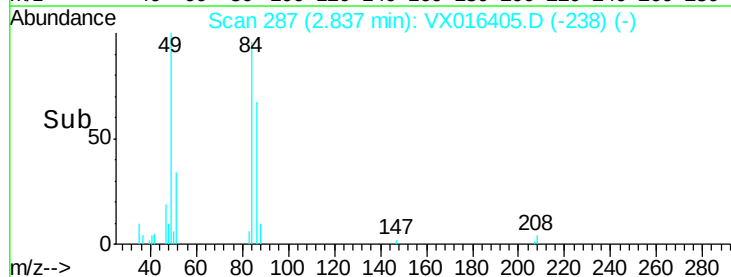
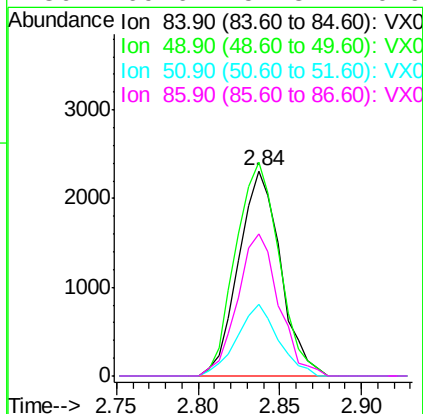
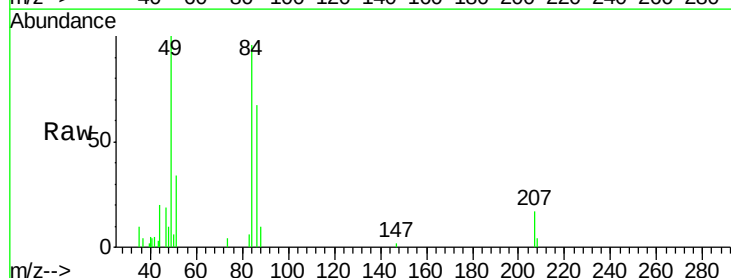
Instrument :
MSVOA_X
ClientSampled :

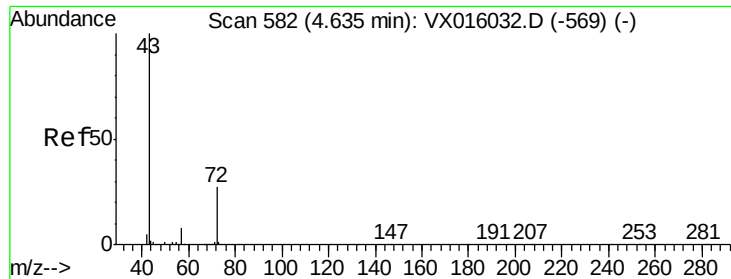
Tot Ion: 43 Resp: 2477
Ion Ratio Lower Upper
43 100
74 30.0 20.2 30.2



#20
Methylene Chloride
Concen: 1.508 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016405.D
Acq: 22 May 2020 12:35

Tgt Ion: 84 Resp: 4144
Ion Ratio Lower Upper
84 100
49 104.2 97.3 145.9
51 35.3 29.3 43.9
86 69.6 51.3 76.9





#25

2-Butanone

Concen: 1.126 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

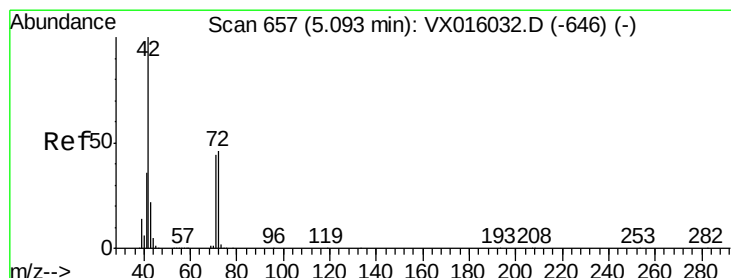
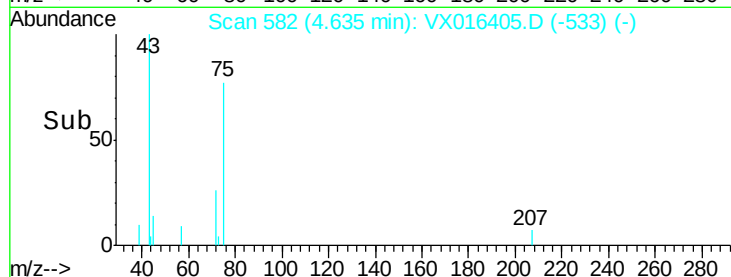
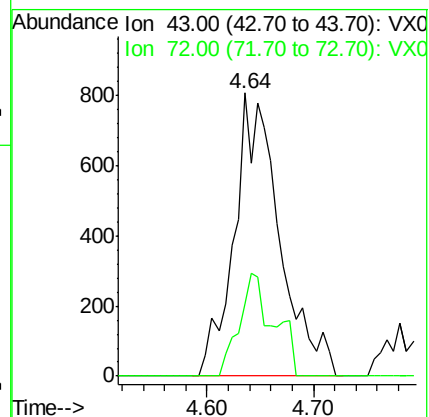
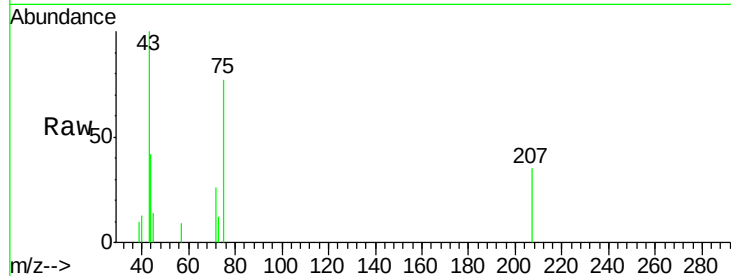
ClientSampled :

Tot Ion: 43 Resp: 2419

Ion Ratio Lower Upper

43 100

72 25.5 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 5.09 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

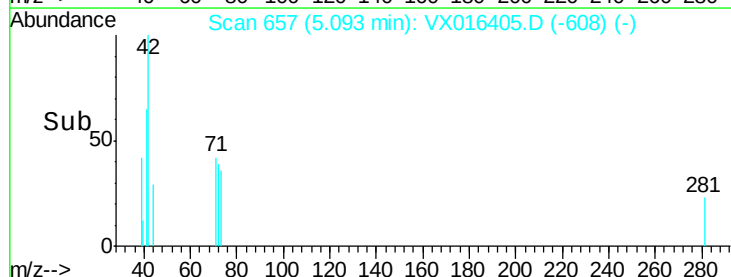
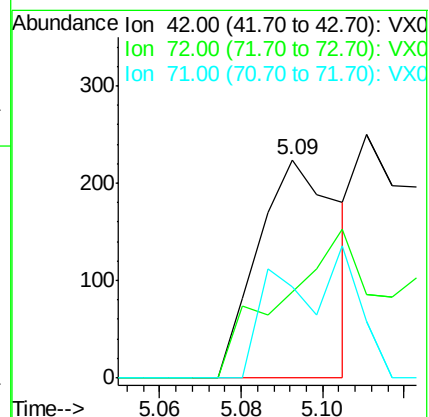
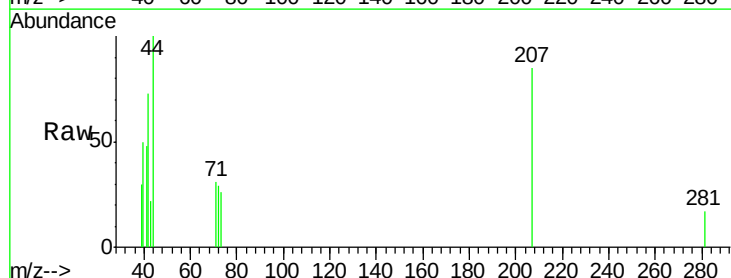
Tgt Ion: 42 Resp: 308

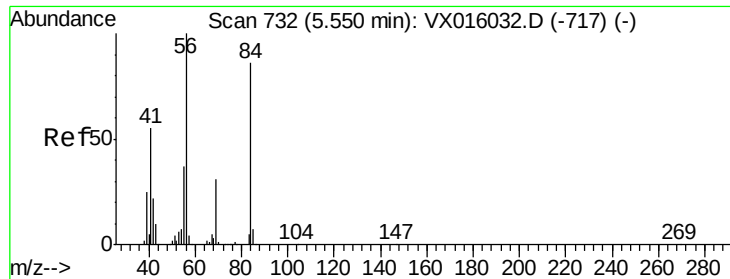
Ion Ratio Lower Upper

42 100

72 90.6 37.1 55.7#

71 54.9 34.5 51.7#

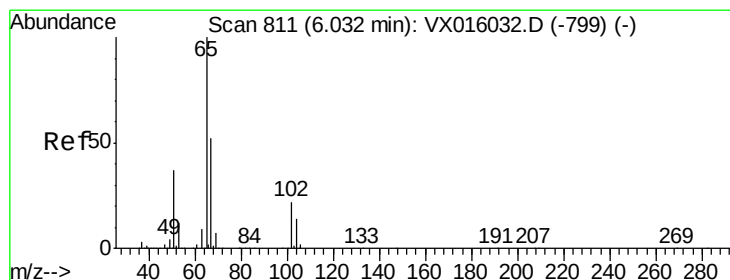
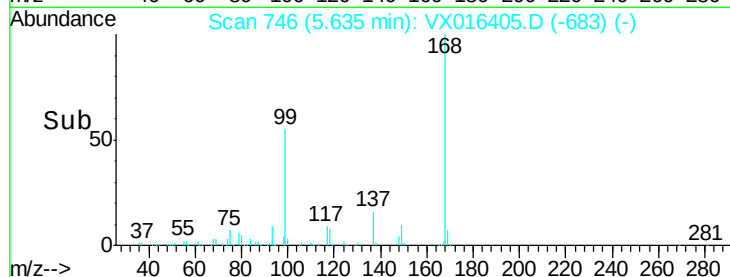
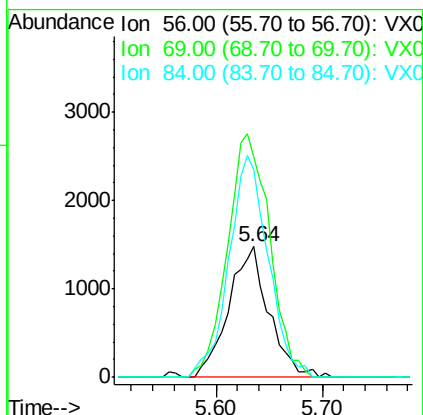
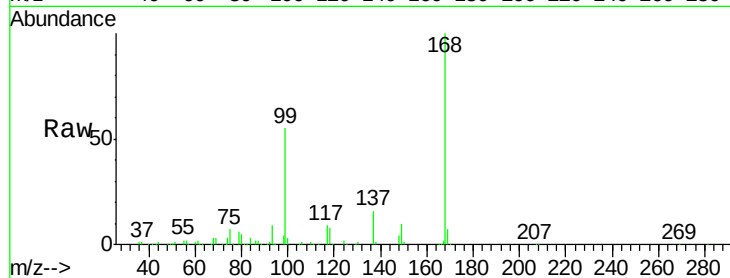




#31
Cyclohexane
Concen: 0.944 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016405.D
Acq: 22 May 2020 12:35

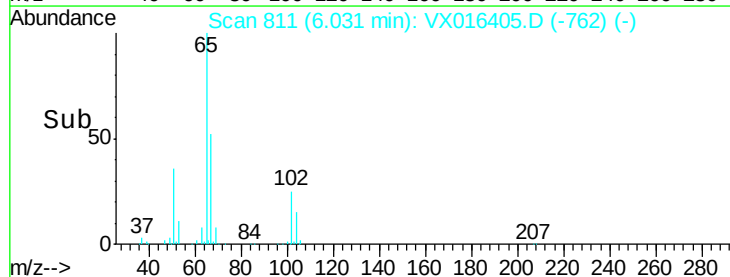
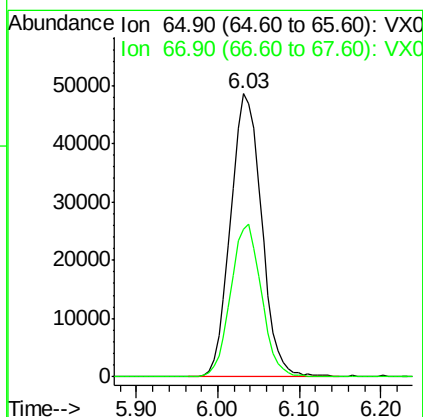
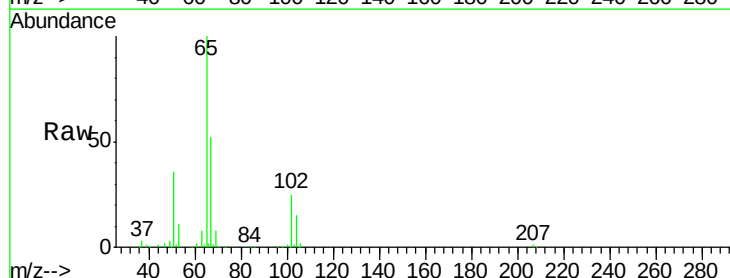
Instrument :
MSVOA_X
ClientSampled :

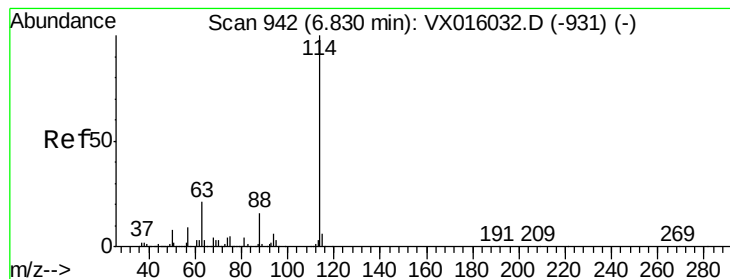
Tot Ion: 56 Resp: 3919
Ion Ratio Lower Upper
56 100
69 169.4 25.0 37.6#
84 159.8 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 42.742 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016405.D
Acq: 22 May 2020 12:35

Tgt Ion: 65 Resp: 127712
Ion Ratio Lower Upper
65 100
67 53.3 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: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :

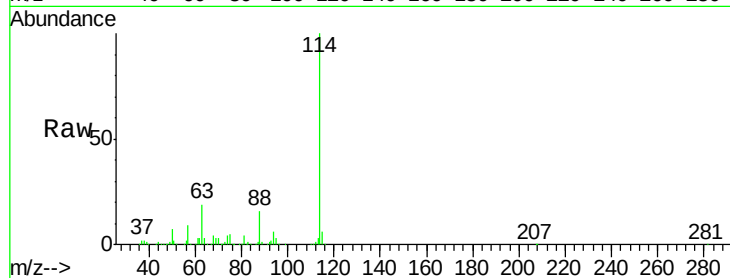
Tot Ion:114 Resp: 372565

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.8

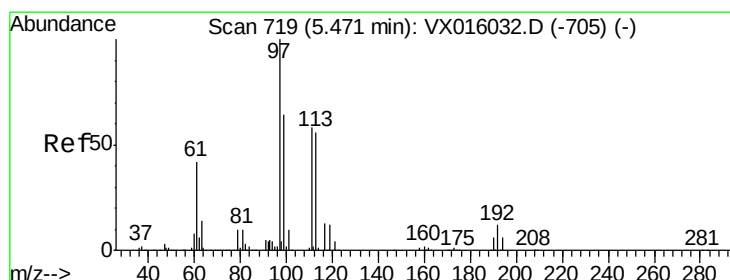
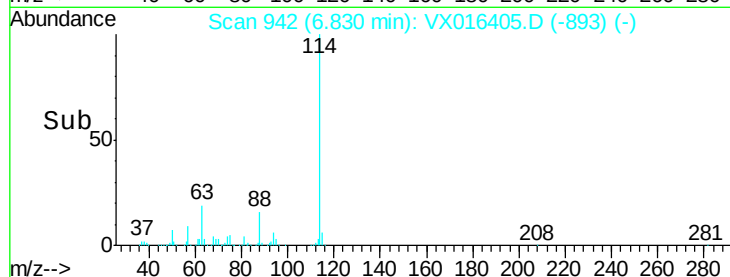
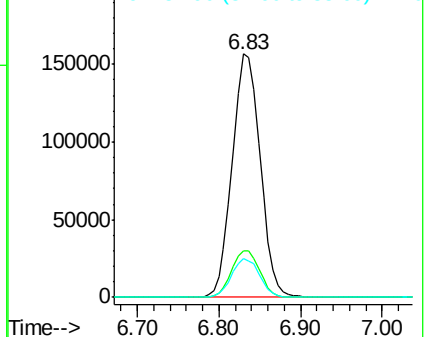
88 15.9 0.0 31.4



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: 46.038 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

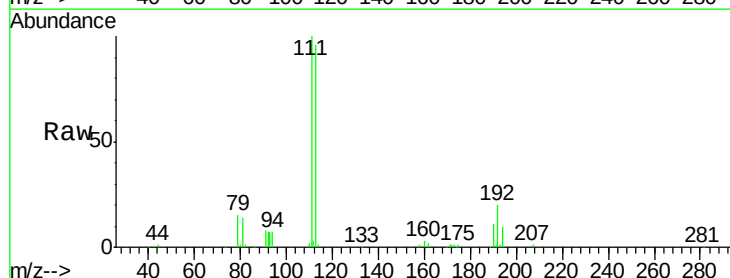
Tgt Ion:113 Resp: 108667

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

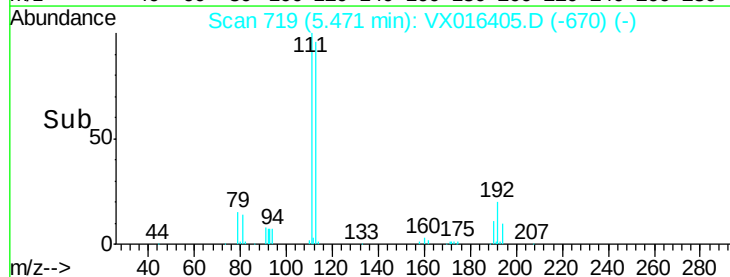
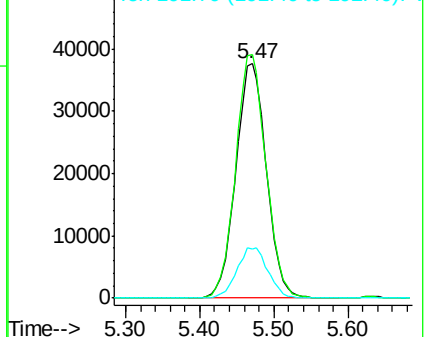
192 21.7 17.0 25.4

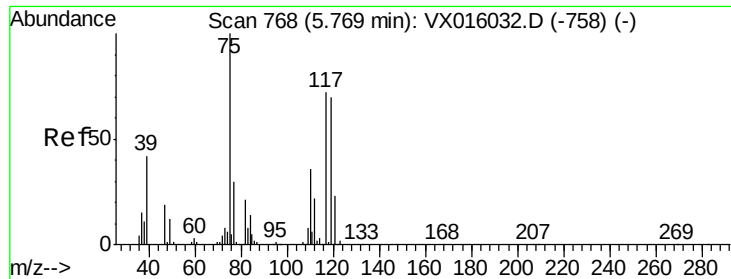


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.211 ug/l

RT: 5.64 min Scan# 746

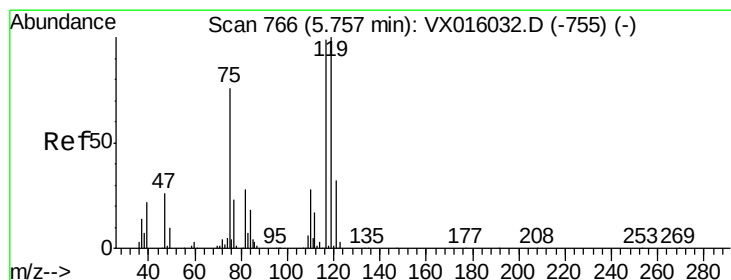
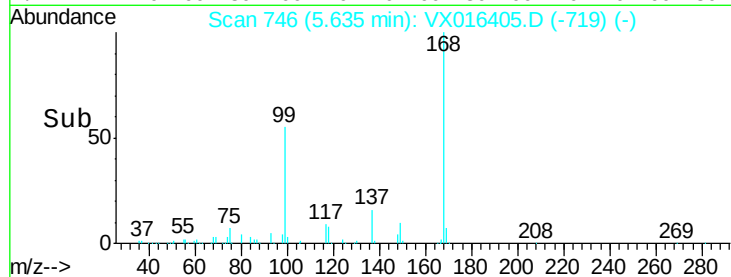
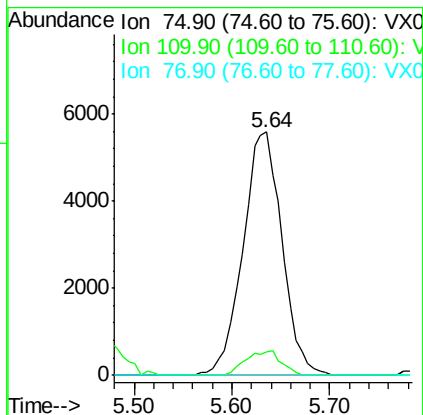
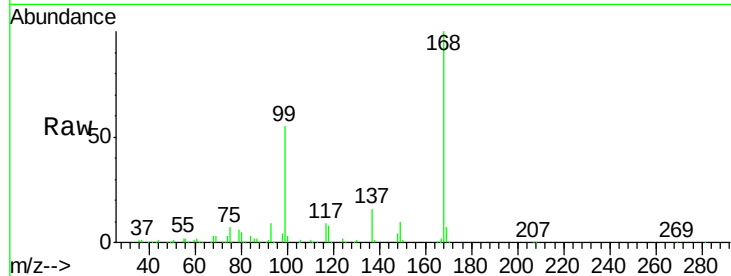
Delta R.T. -0.13 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	15444
Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	0.0	25.0	37.6#



#38

Carbon Tetrachloride

Concen: 5.783 ug/l

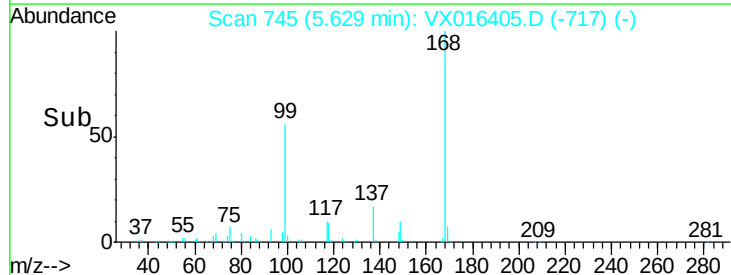
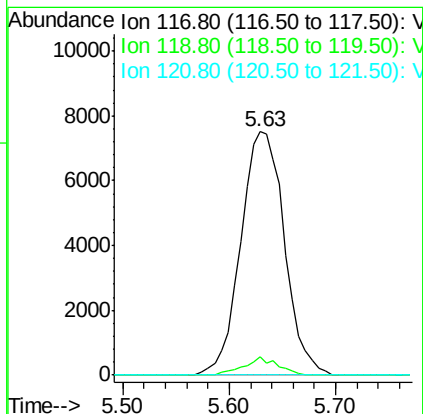
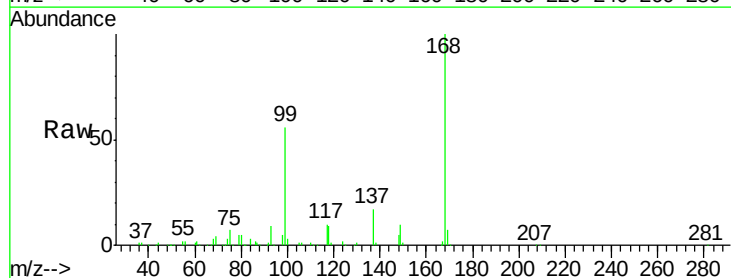
RT: 5.63 min Scan# 745

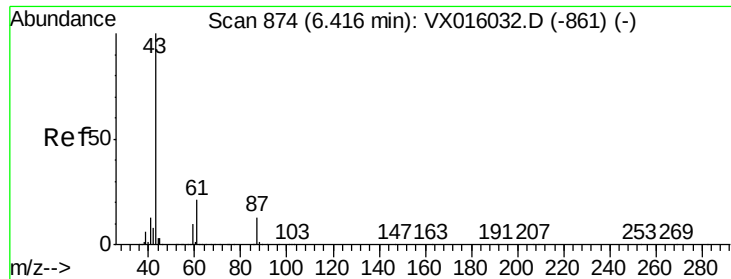
Delta R.T. -0.13 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Tgt Ion:	117	Resp:	21558
Ion	Ratio	Lower	Upper
117	100		
119	7.5	80.3	120.5#
121	0.0	25.7	38.5#





#43

Isopropyl Acetate

Concen: 6.967 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :

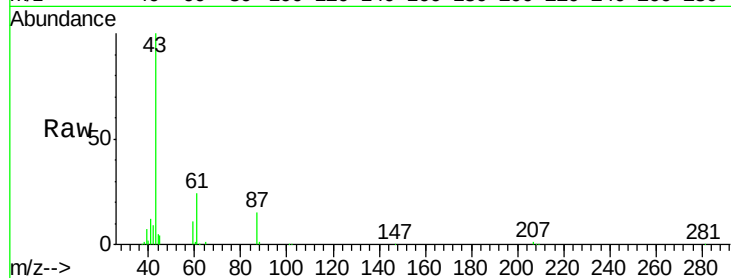
Tot Ion: 43 Resp: 47248

Ion Ratio Lower Upper

43 100

61 22.6 17.0 25.4

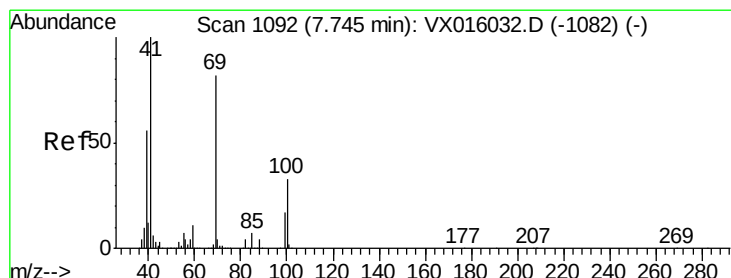
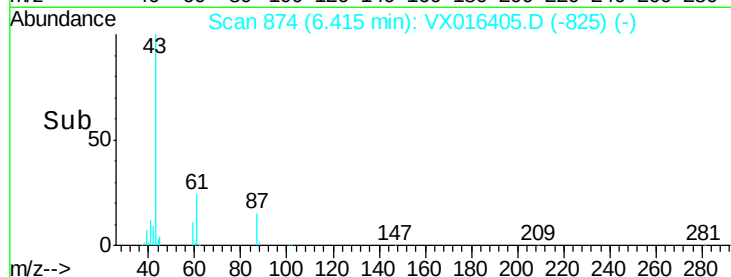
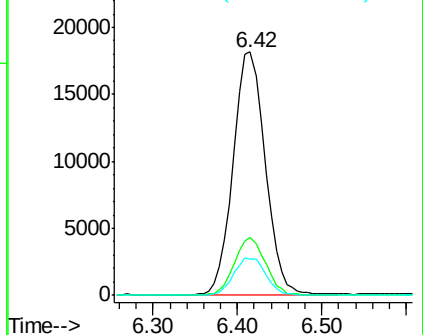
87 15.3 11.0 16.6



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: 1.029 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.10 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

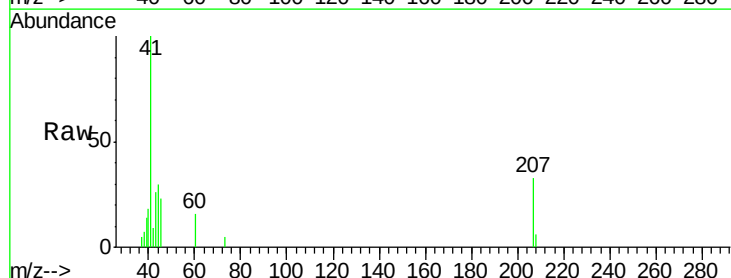
Tgt Ion: 41 Resp: 3307

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.6#

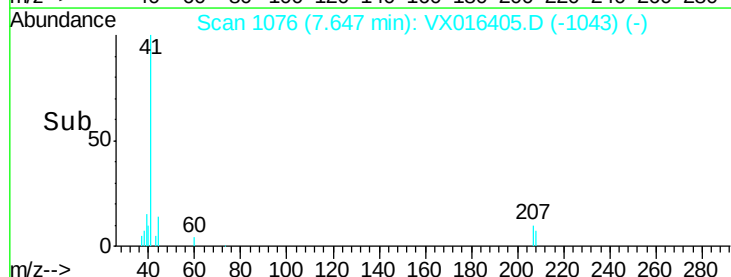
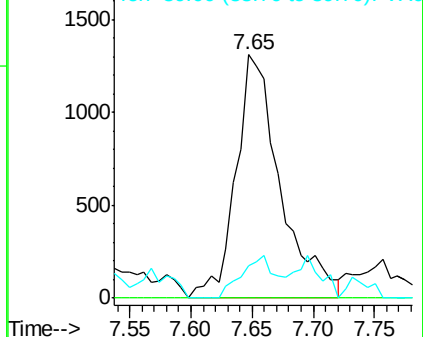
39 0.0 44.6 67.0#

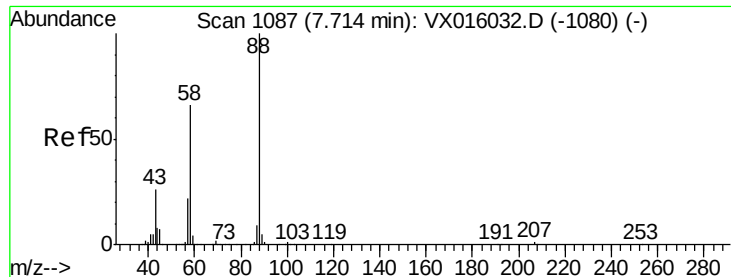


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.207 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :

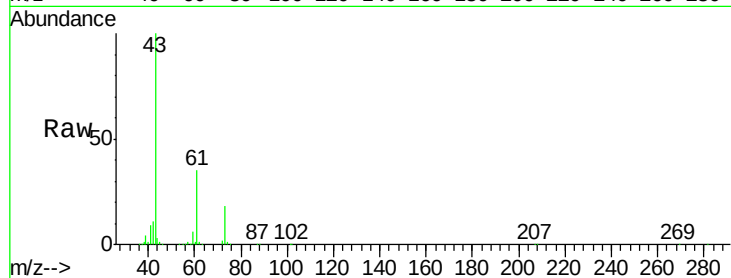
Tot Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 743163.4 25.3 37.9#

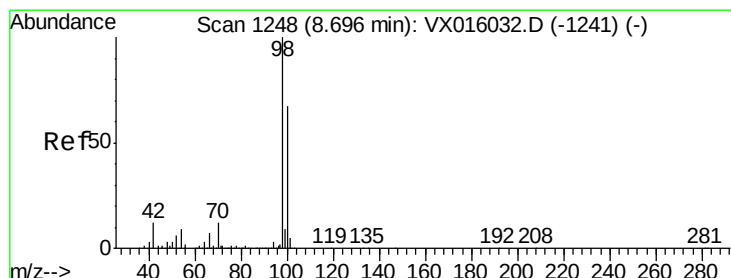
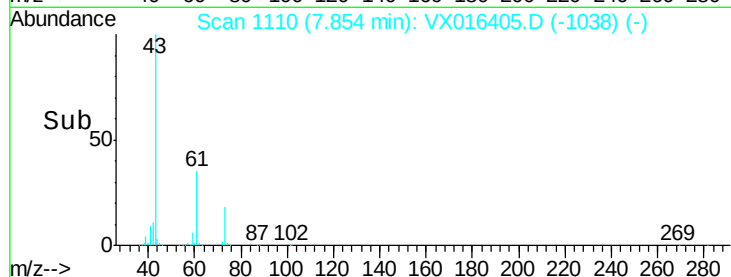
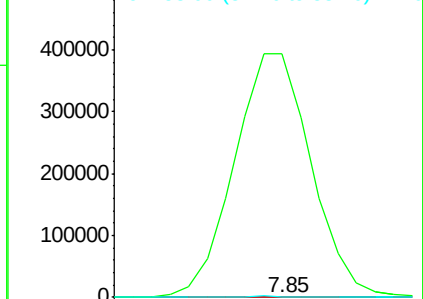
58 3515.1 55.9 83.9#



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: 50.699 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016405.D

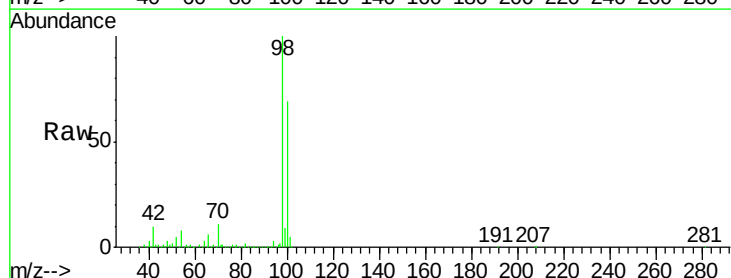
Acq: 22 May 2020 12:35

Tgt Ion: 98 Resp: 461092

Ion Ratio Lower Upper

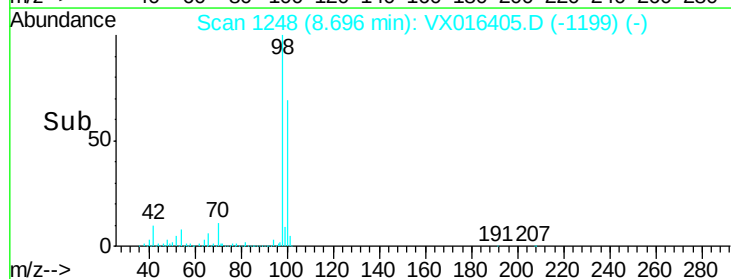
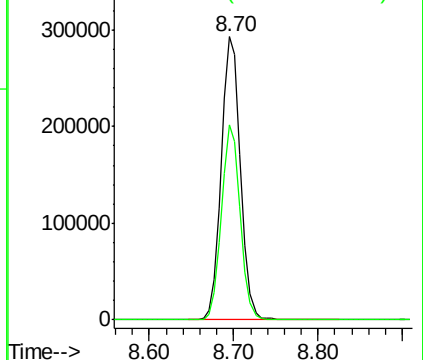
98 100

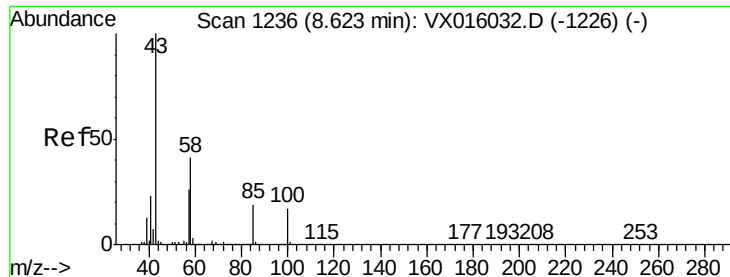
100 67.3 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 10.739 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

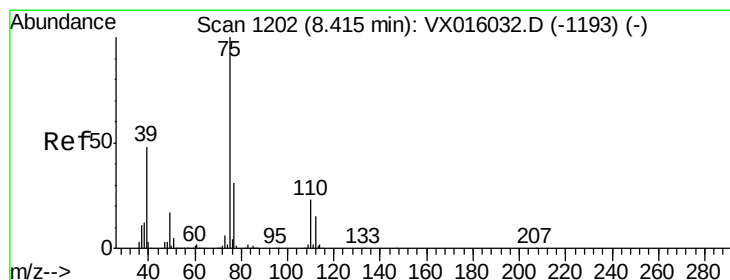
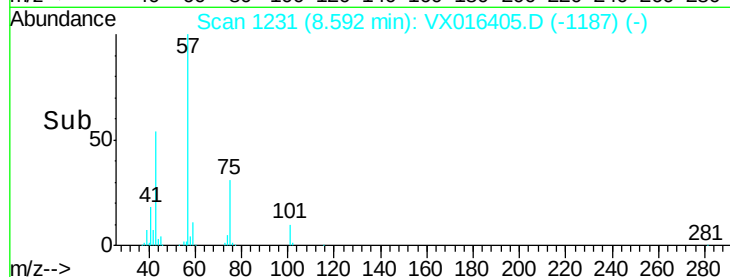
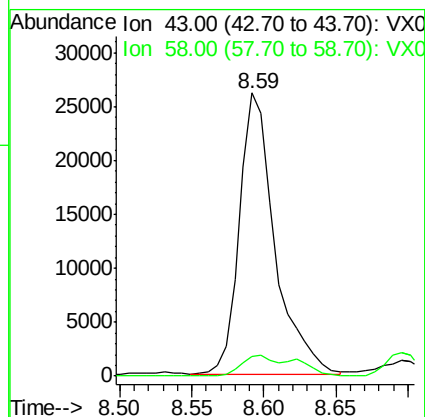
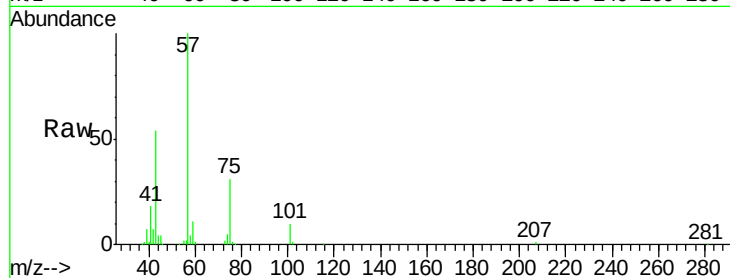
ClientSampleId :

Tot Ion: 43 Resp: 44567

Ion Ratio Lower Upper

43 100

58 7.1 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 4.854 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

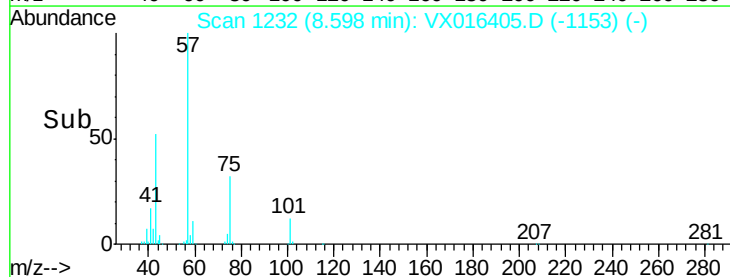
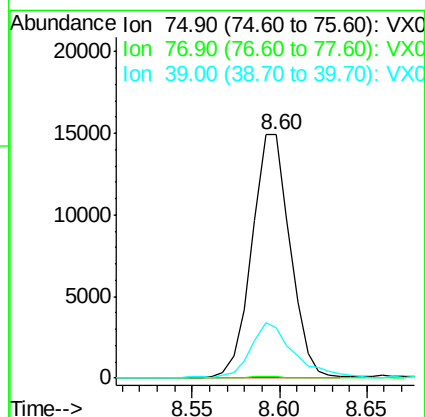
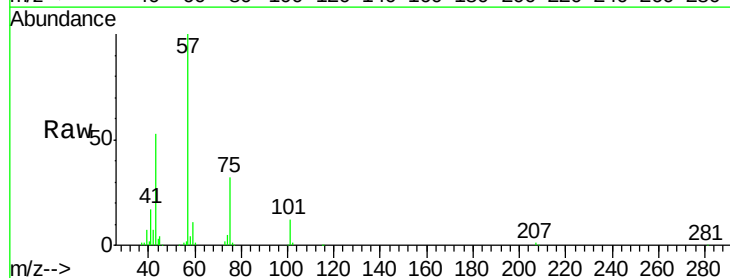
Tgt Ion: 75 Resp: 22715

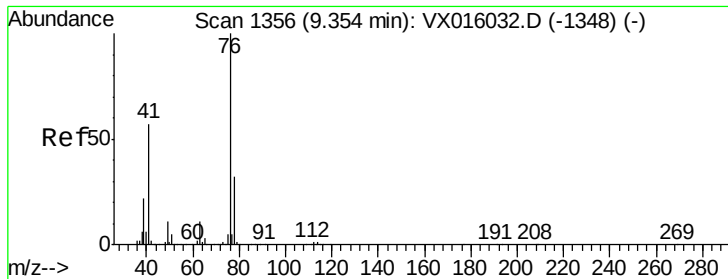
Ion Ratio Lower Upper

75 100

77 0.8 24.7 37.1#

39 20.3 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 0.719 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

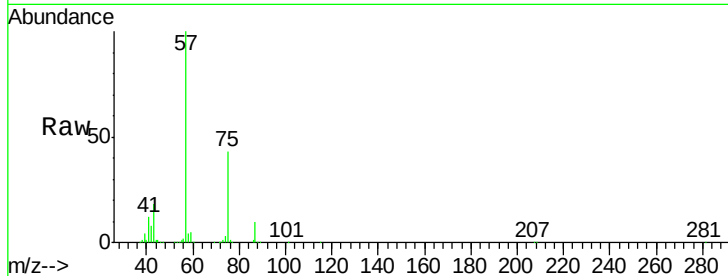
ClientSampled :

Tot Ion: 76 Resp: 3301

Ion Ratio Lower Upper

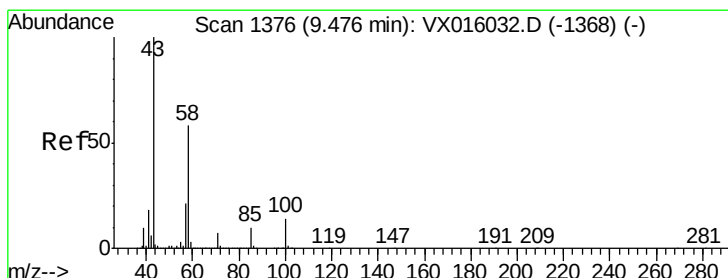
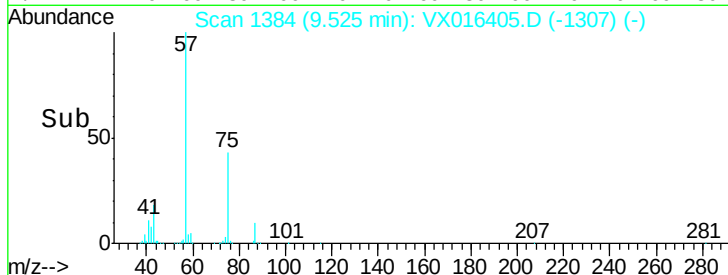
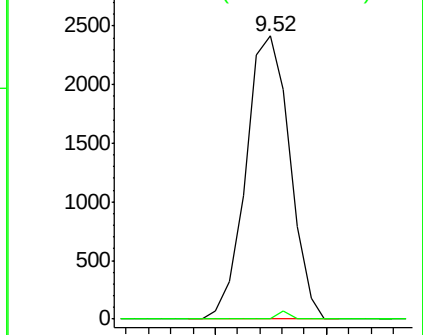
76 100

78 0.8 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: 11.758 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016405.D

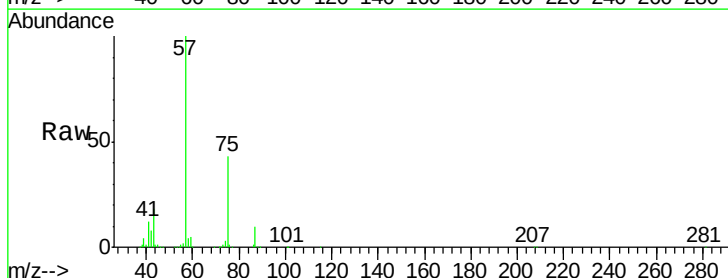
Acq: 22 May 2020 12:35

Tgt Ion: 43 Resp: 38322

Ion Ratio Lower Upper

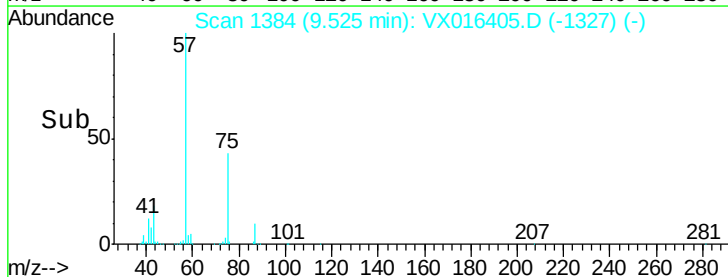
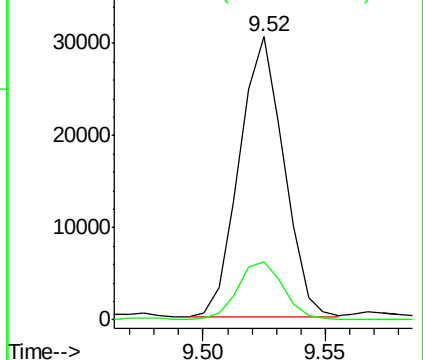
43 100

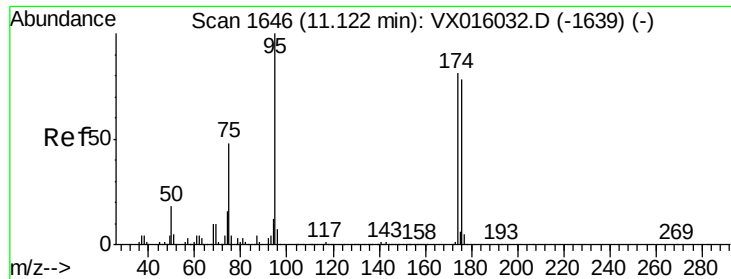
58 21.6 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.382 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :

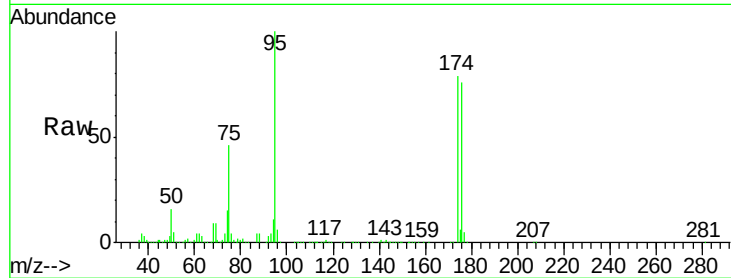
Tot Ion: 95 Resp: 184656

Ion Ratio Lower Upper

95 100

174 81.1 0.0 159.4

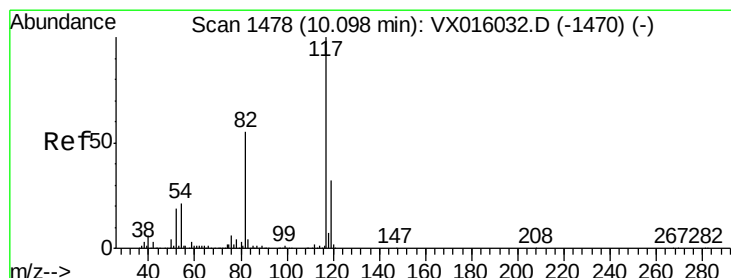
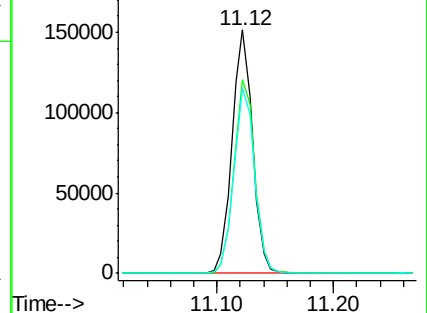
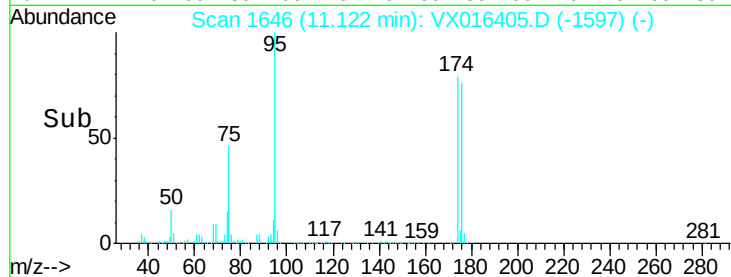
176 77.5 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016405.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016405.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016405.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

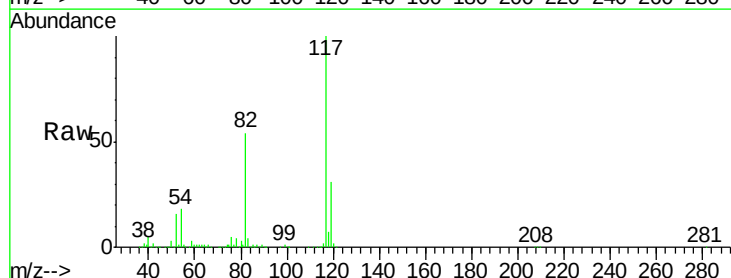
Tgt Ion: 117 Resp: 374980

Ion Ratio Lower Upper

117 100

82 53.8 44.4 66.6

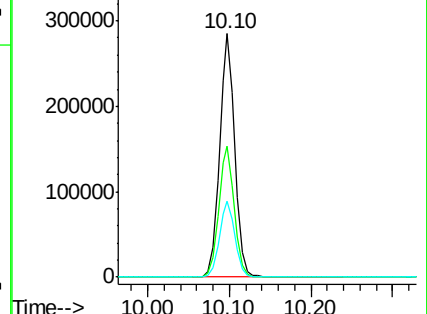
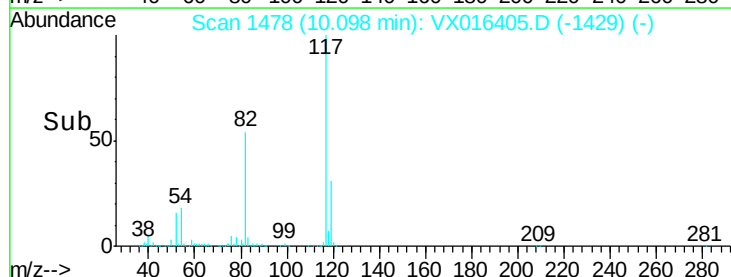
119 31.2 25.5 38.3

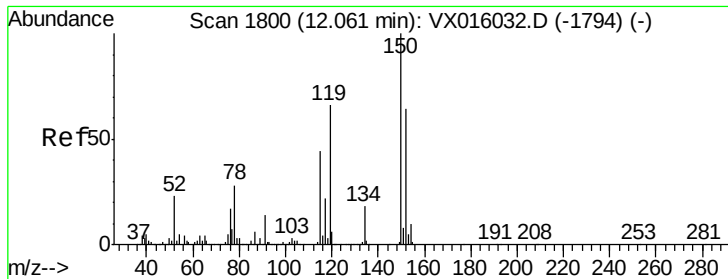


Abundance Ion 116.90 (116.60 to 117.60): VX016405.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016405.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016405.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :

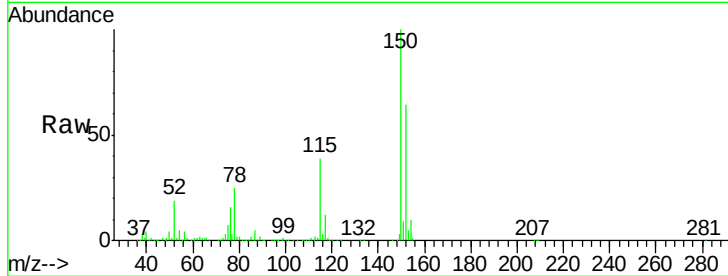
Tot Ion:152 Resp: 182903

Ion Ratio Lower Upper

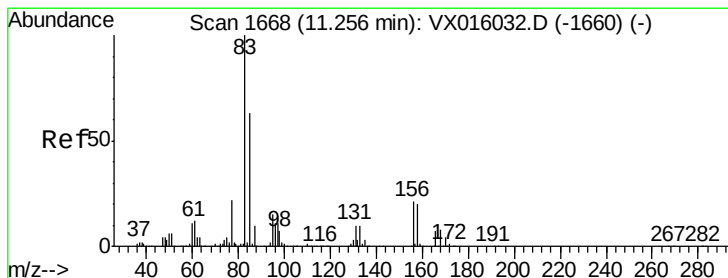
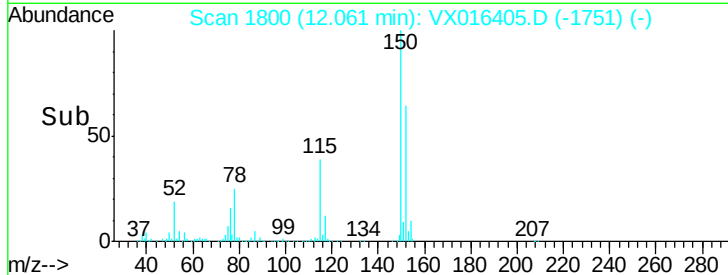
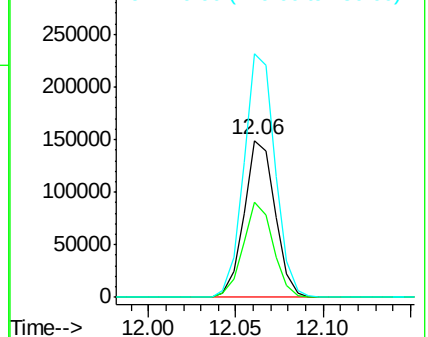
152 100

115 58.8 41.3 124.1

150 156.8 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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.084 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016405.D

Acq: 22 May 2020 12:35

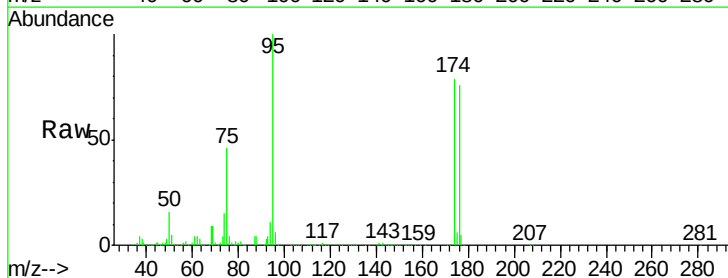
Tgt Ion: 83 Resp: 87

Ion Ratio Lower Upper

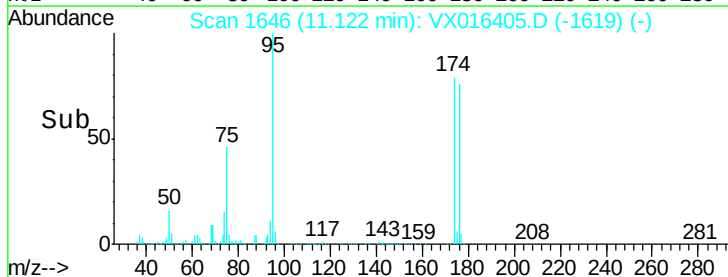
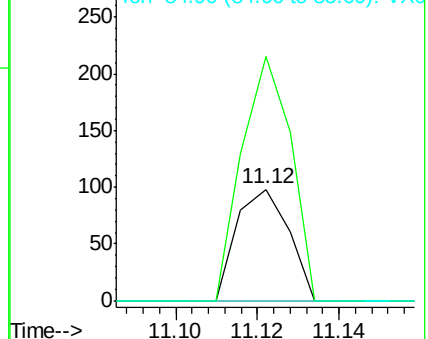
83 100

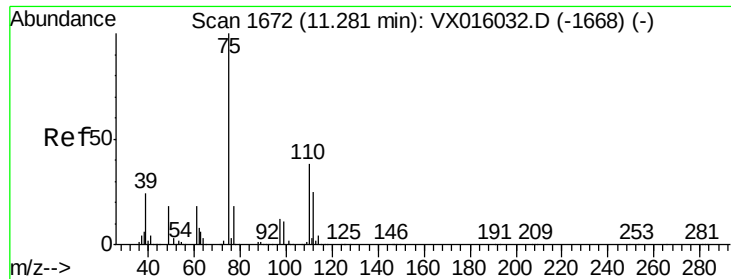
131 208.0 5.1 15.4#

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

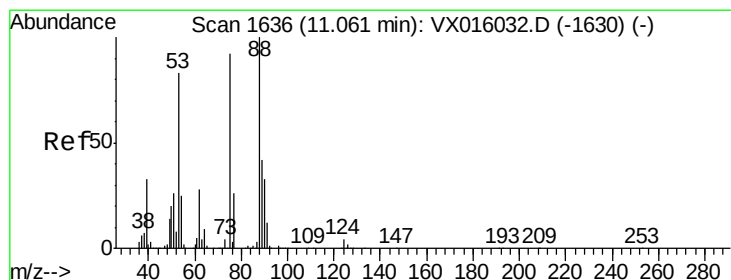
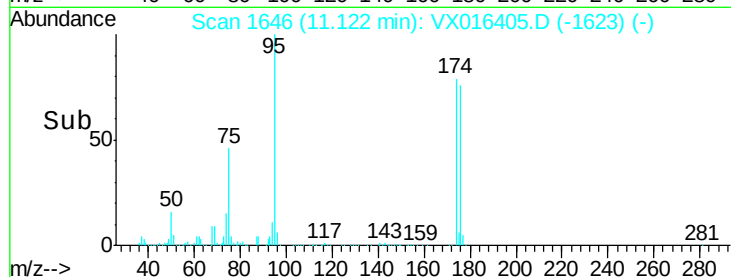
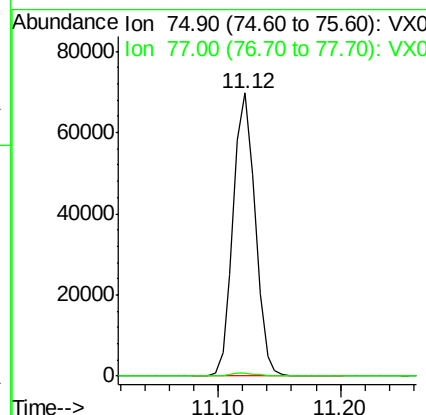
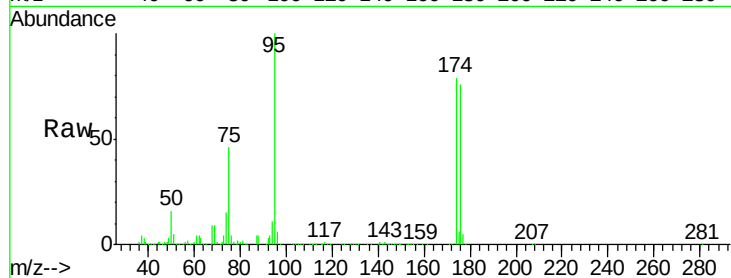




#76
 1,2,3-Trichloropropane
 Concen: 20.896 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016405.D
 Acq: 22 May 2020 12:35

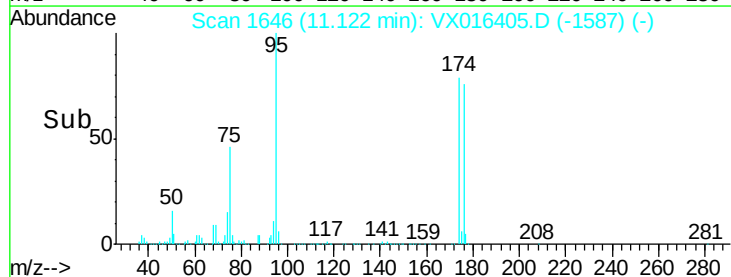
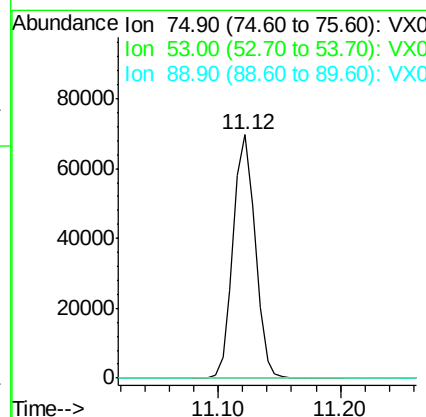
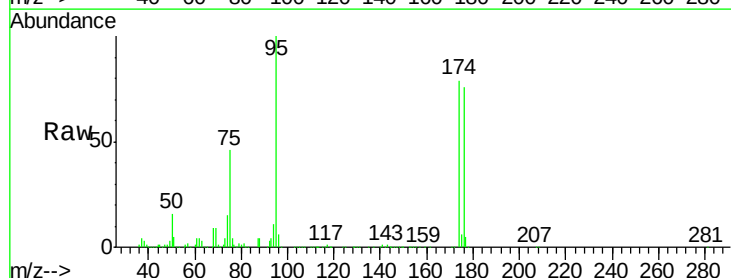
Instrument :
 MSVOA_X
 ClientSampleId :

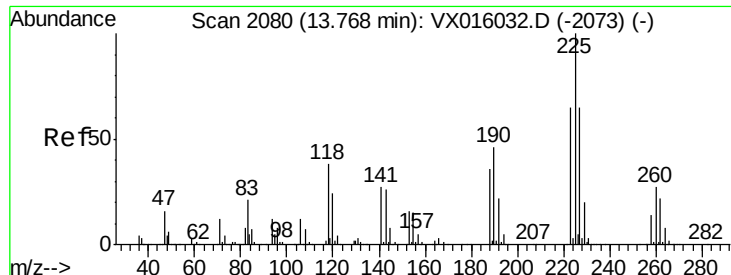
Tot Ion: 75 Resp: 86728
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 49.796 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016405.D
 Acq: 22 May 2020 12:35

Tgt Ion: 75 Resp: 86728
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.596 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

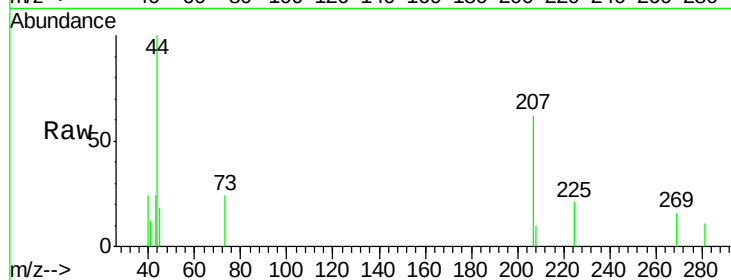
Lab File: VX016405.D

Acq: 22 May 2020 12:35

Instrument :

MSVOA_X

ClientSampleId :



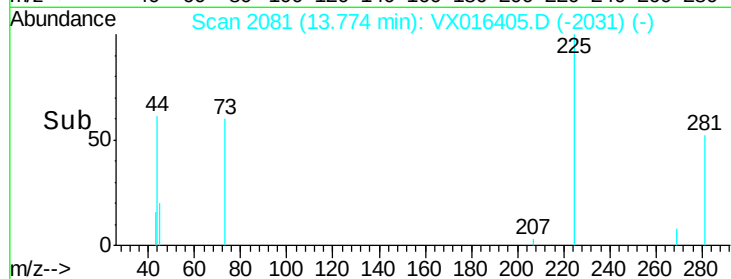
Tot Ion:225 Resp: 138

Ion Ratio Lower Upper

225 100

223 58.0 32.3 96.9

227 45.7 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

13.77

100

50

0

Time-->

13.74 13.76 13.78 13.80