

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016207.D
 Acq On : 14 May 2020 02:47
 Operator : JC/SP
 Sample : L2505-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-051220

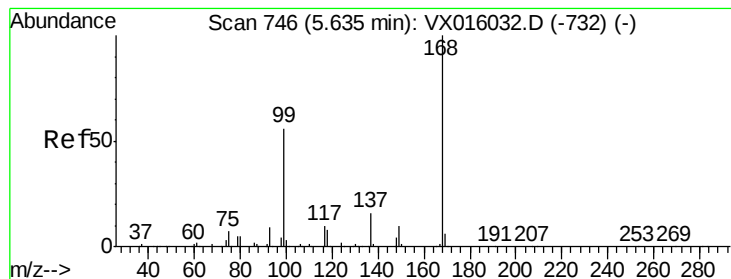
Quant Time: May 14 04:49:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	274829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	458123	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	235989	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	169902	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	5.47	113	136504	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
50) Toluene-d8	8.70	98	572800	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.12	95	230979	54.30	ug/l	0.00
Spiked Amount			Recovery	=	108.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	782	0.855	ug/l #	72
13) Acrolein	2.27	56	345	0.603	ug/l #	41
16) Acetone	2.42	43	17789	11.024	ug/l	98
17) Carbon Disulfide	2.55	76	1445	Below Cal	#	94
18) Methyl Acetate	2.75	43	3397	0.856	ug/l #	89
20) Methylene Chloride	2.84	84	5441	1.636	ug/l	98
25) 2-Butanone	4.64	43	3159	1.215	ug/l	94
29) Tetrahydrofuran	5.09	42	405	0.235	ug/l #	31
31) Cyclohexane	5.63	56	5173	1.030	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20549	4.557	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26763	5.839	ug/l #	14
43) Isopropyl Acetate	6.42	43	86702	10.397	ug/l	98
48) Methyl methacrylate	7.85	41	130496	33.023	ug/l #	41
49) 1,4-Dioxane	7.85	88	247	2.606	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	80357	15.746	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	39864	6.927	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	6450	1.142	ug/l #	49
59) 2-Hexanone	9.52	43	84118	20.989	ug/l #	50
74) N-amyl acetate	10.80	43	4694	0.586	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.12	83	164	2.100	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	113372	21.171	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	113372	50.451	ug/l #	13
94) Hexachlorobutadiene	13.76	225	154	0.586	ug/l	88

(#) = 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: VX016207.D

Acq: 14 May 2020 02:47

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ClientSampleId :

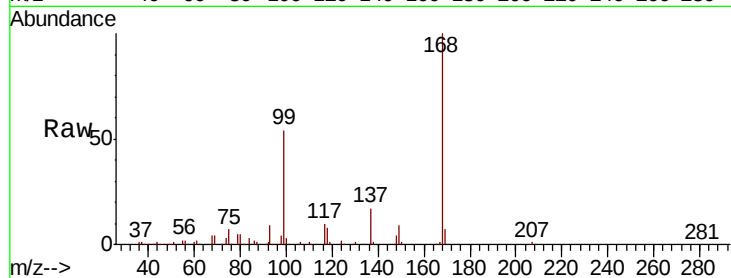
SU-02-051220

Tot Ion:168 Resp: 274829

Ion Ratio Lower Upper

168 100

99 53.7 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

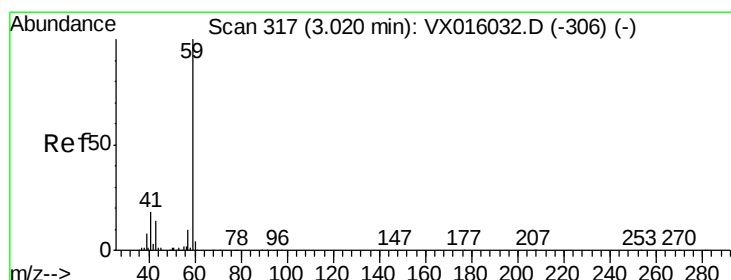
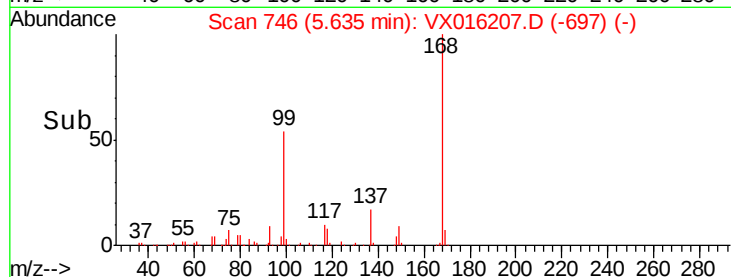
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.855 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016207.D

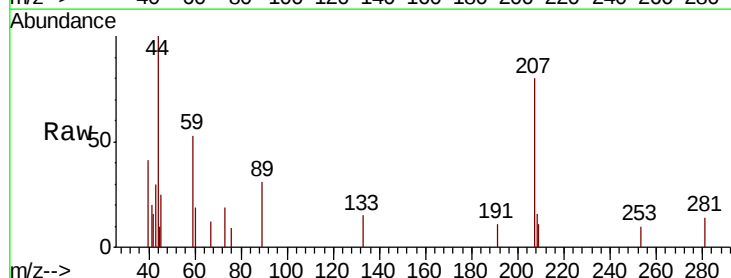
Acq: 14 May 2020 02:47

Tgt Ion: 59 Resp: 782

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

3.01

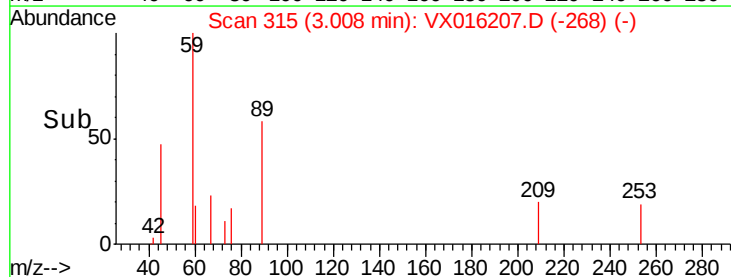
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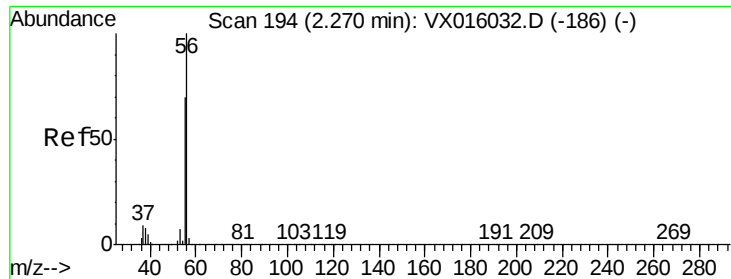
200

100

0

Time-->





#13

Acrolein

Concen: 0.603 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

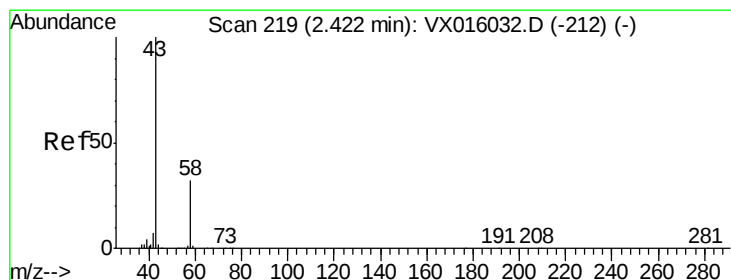
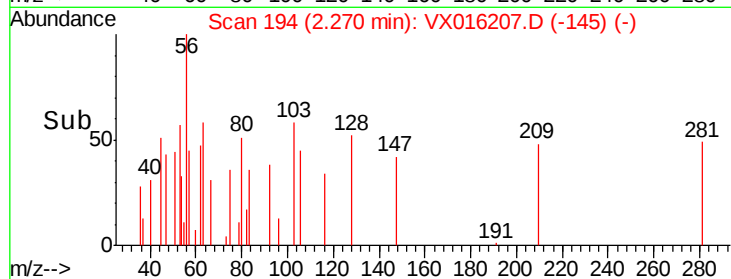
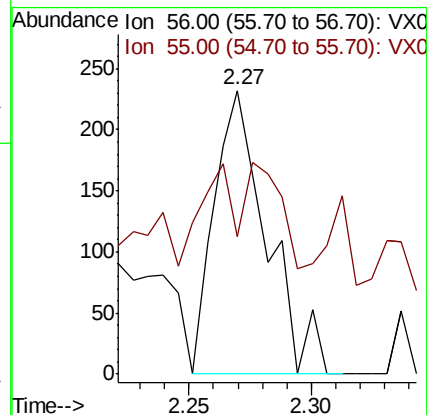
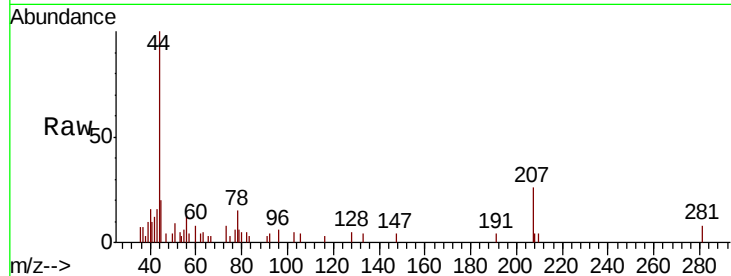
SU-02-051220

Tot Ion: 56 Resp: 345

Ion Ratio Lower Upper

56 100

55 21.7 56.5 84.7#



#16

Acetone

Concen: 11.024 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016207.D

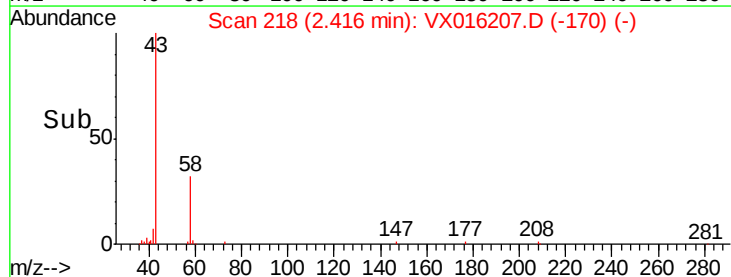
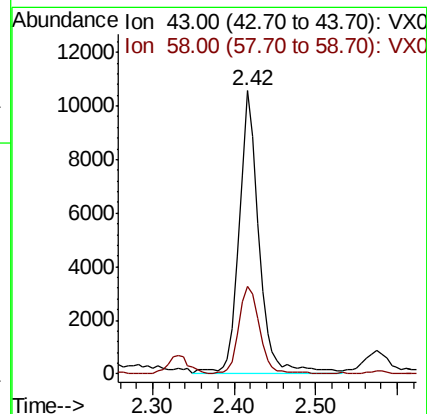
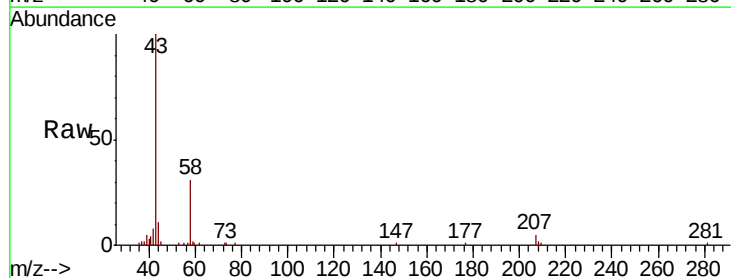
Acq: 14 May 2020 02:47

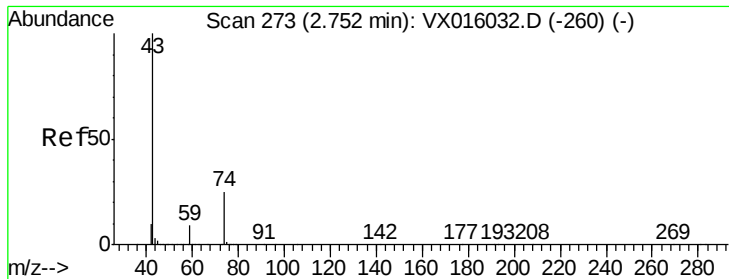
Tgt Ion: 43 Resp: 17789

Ion Ratio Lower Upper

43 100

58 30.4 25.4 38.0

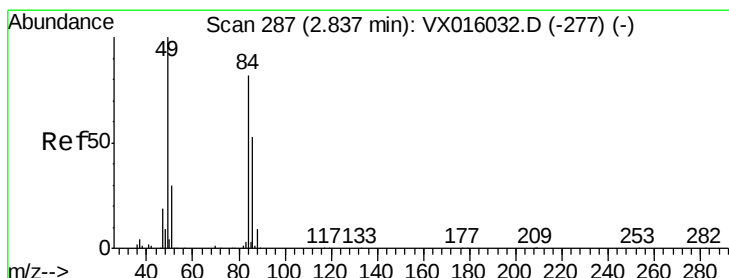
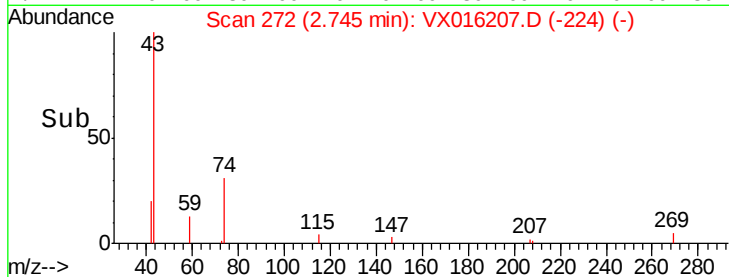
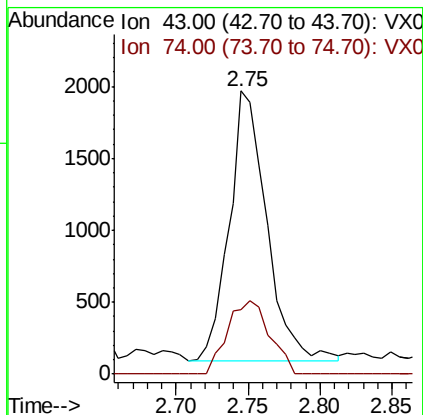
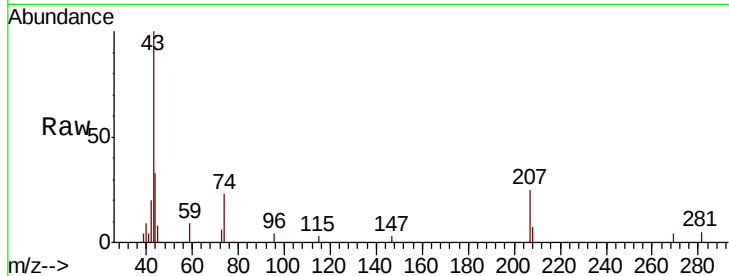




#18
Methvl Acetate
Concen: 0.856 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016207.D
Acq: 14 May 2020 02:47

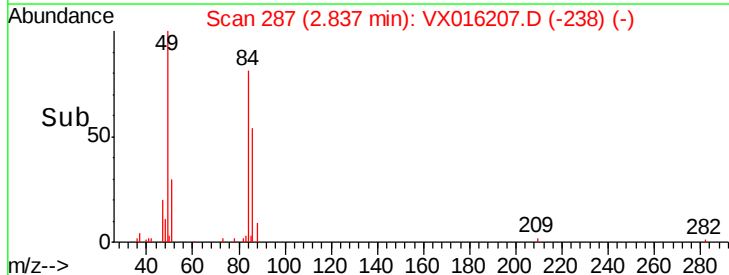
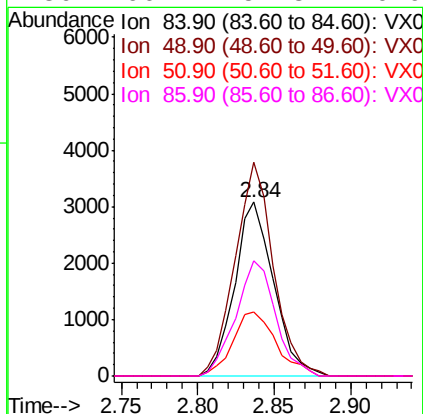
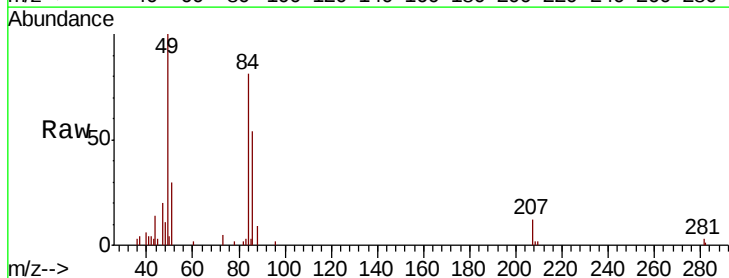
Instrument :
MSVOA_X
ClientSampleId :
SU-02-051220

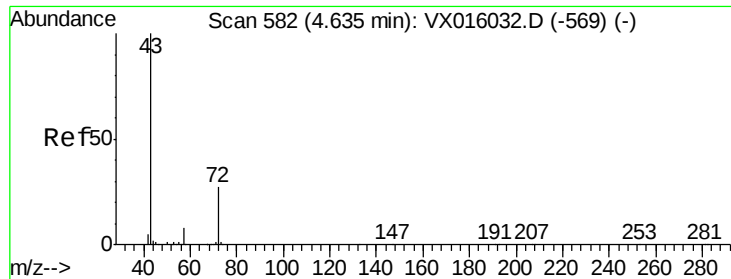
Tot Ion: 43 Resp: 3397
Ion Ratio Lower Upper
43 100
74 30.5 20.2 30.2#



#20
Methylene Chloride
Concen: 1.636 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016207.D
Acq: 14 May 2020 02:47

Tgt Ion: 84 Resp: 5441
Ion Ratio Lower Upper
84 100
49 123.0 97.3 145.9
51 37.1 29.3 43.9
86 66.4 51.3 76.9





#25

2-Butanone

Concen: 1.215 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampled :

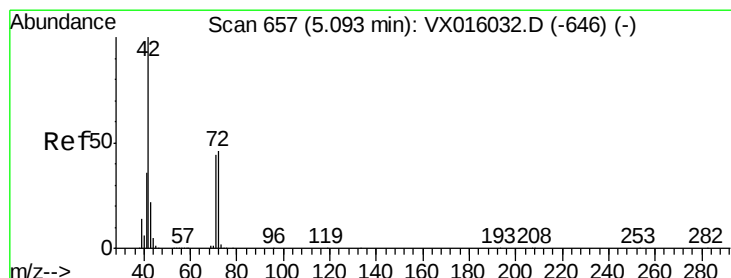
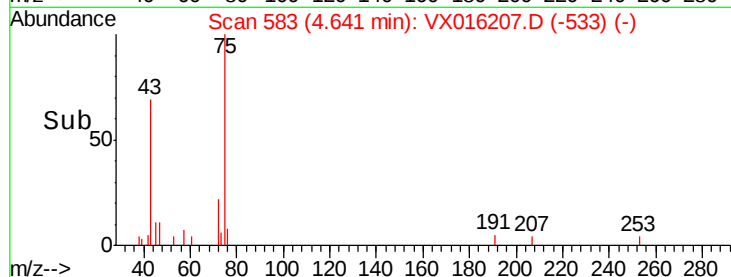
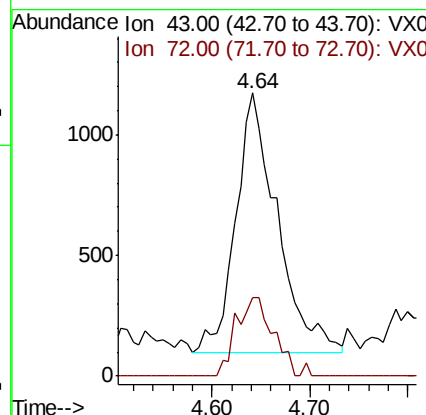
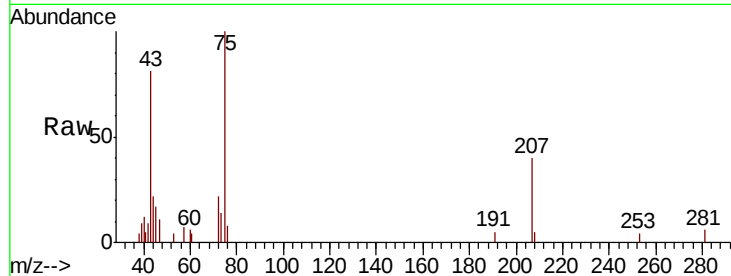
SU-02-051220

Tot Ion: 43 Resp: 3159

Ion Ratio Lower Upper

43 100

72 30.4 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.235 ug/l

RT: 5.09 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

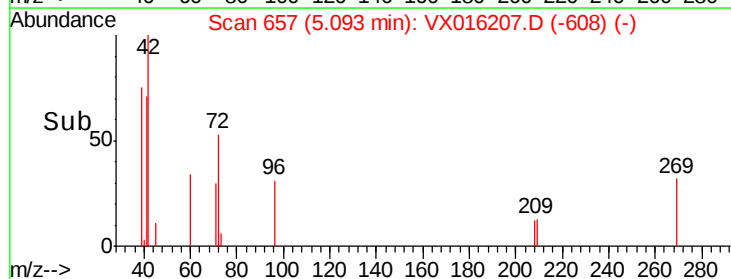
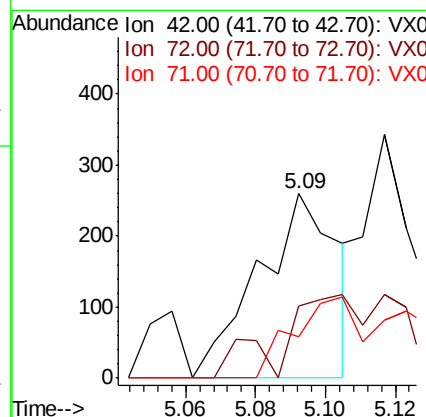
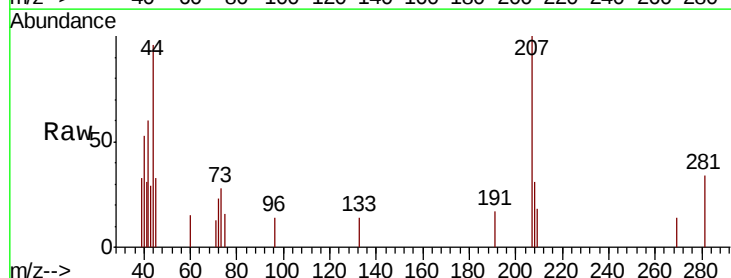
Tgt Ion: 42 Resp: 405

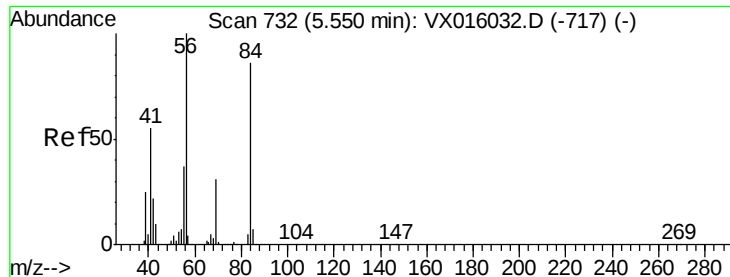
Ion Ratio Lower Upper

42 100

72 0.0 37.1 55.7#

71 0.0 34.5 51.7#

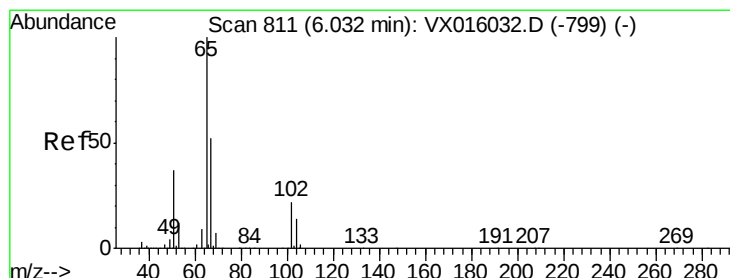
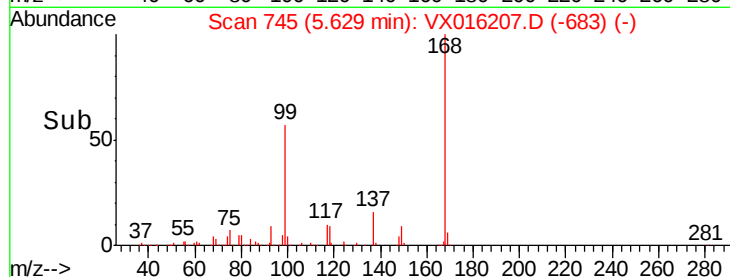
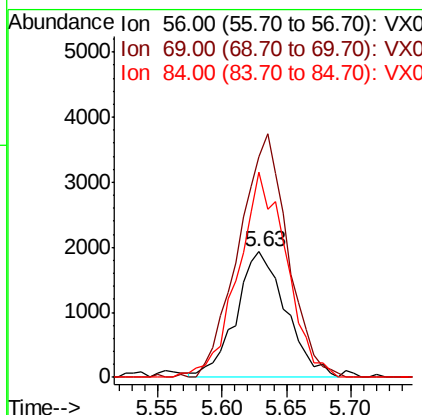
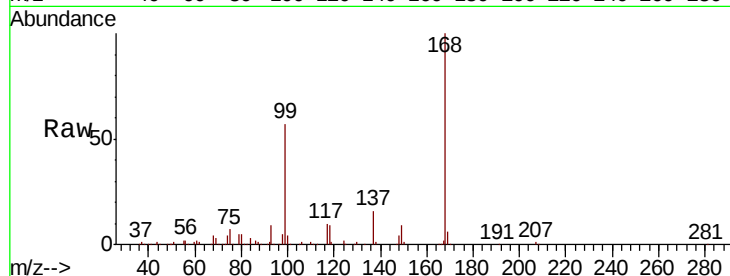




#31
Cvclohexane
Concen: 1.030 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016207.D
Acq: 14 May 2020 02:47

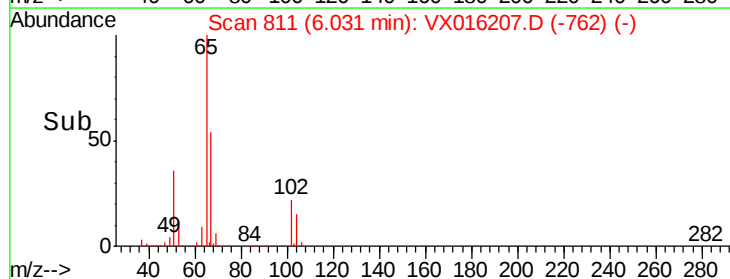
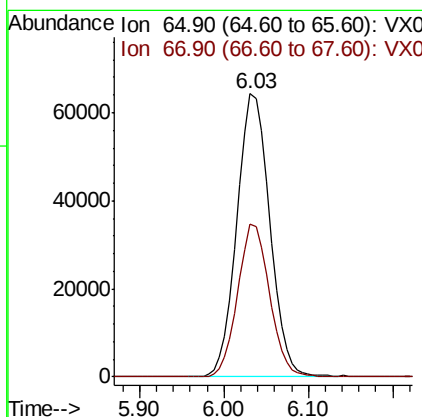
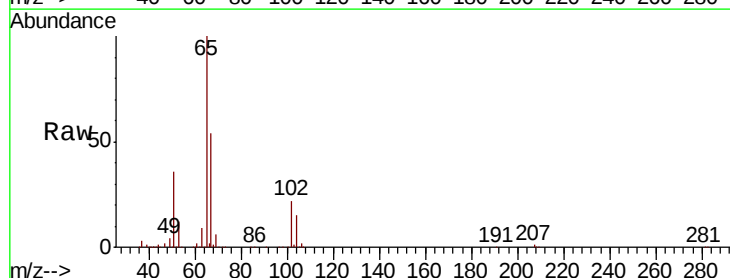
Instrument :
MSVOA_X
ClientSampleId :
SU-02-051220

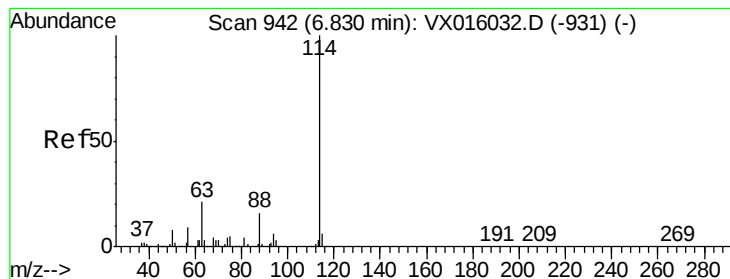
Tot Ion: 56 Resp: 5173
Ion Ratio Lower Upper
56 100
69 175.7 25.0 37.6#
84 163.6 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 46.980 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016207.D
Acq: 14 May 2020 02:47

Tgt Ion: 65 Resp: 169902
Ion Ratio Lower Upper
65 100
67 52.5 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: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

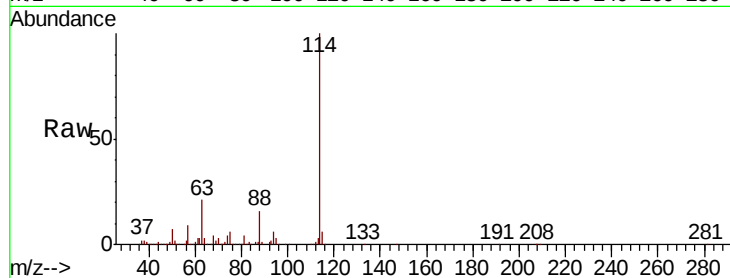
Tot Ion:114 Resp: 458123

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

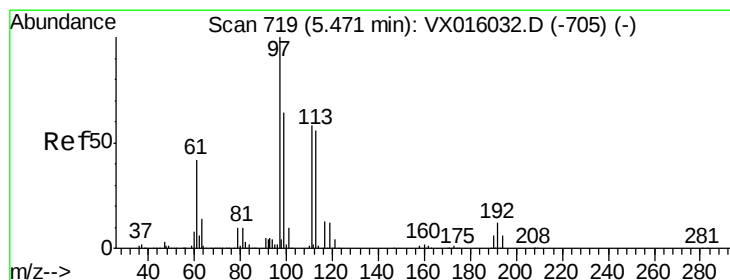
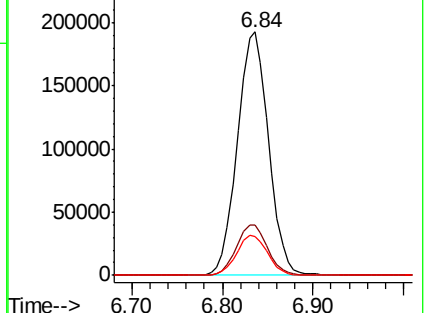
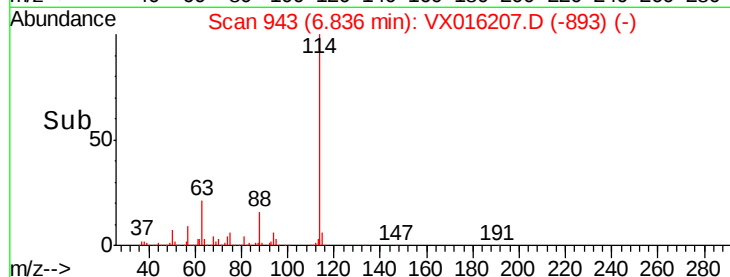
88 15.8 0.0 31.4



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: 47.031 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

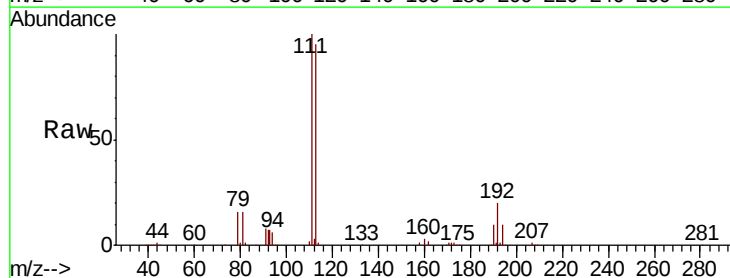
Tgt Ion:113 Resp: 136504

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

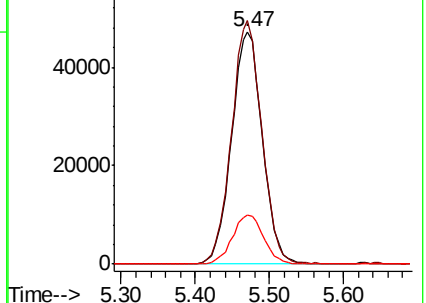
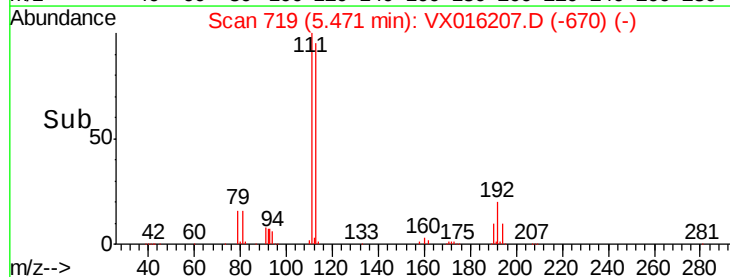
192 21.4 17.0 25.4

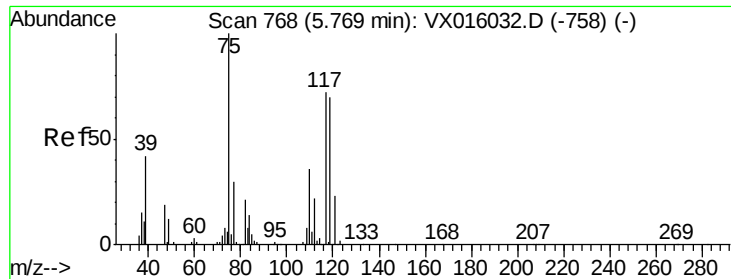


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.557 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

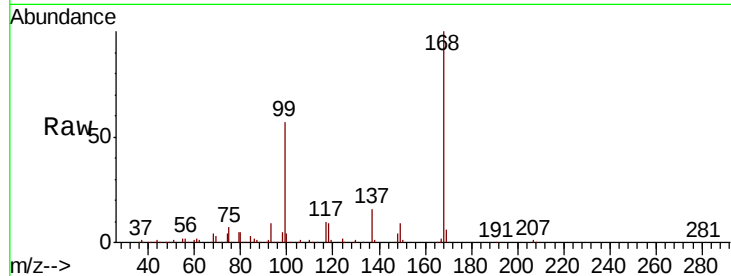
Tot Ion: 75 Resp: 20549

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.1#

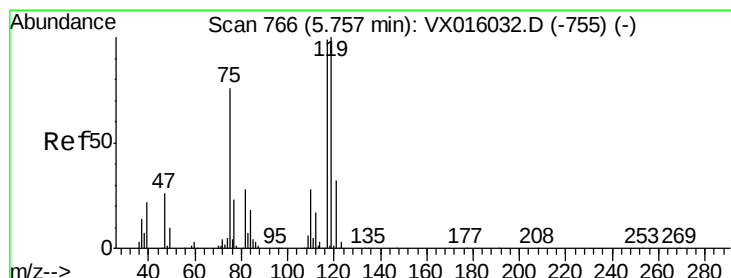
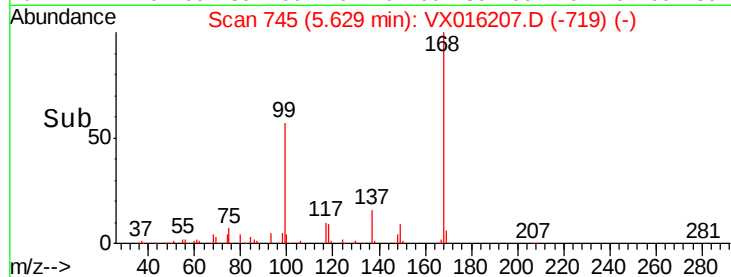
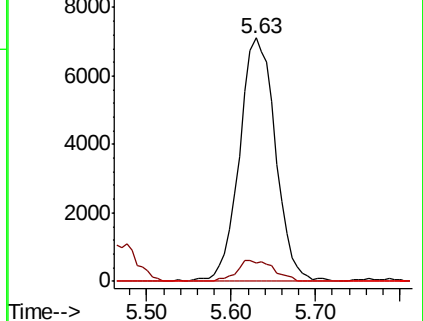
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.839 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

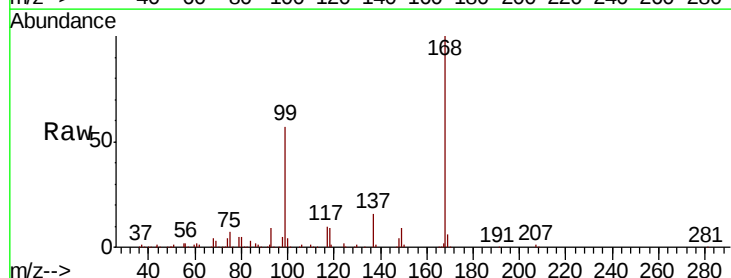
Tgt Ion: 117 Resp: 26763

Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

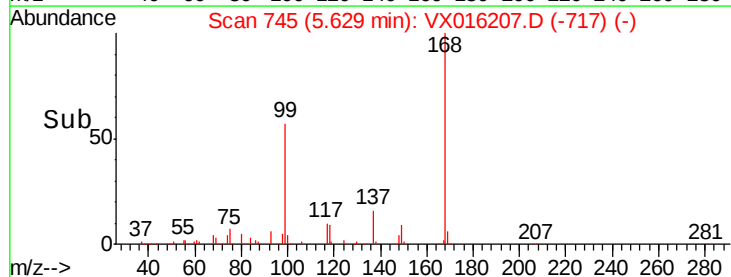
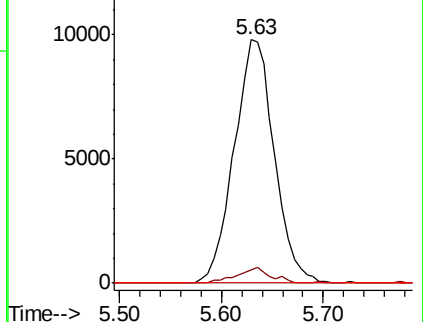
121 0.0 25.7 38.5#

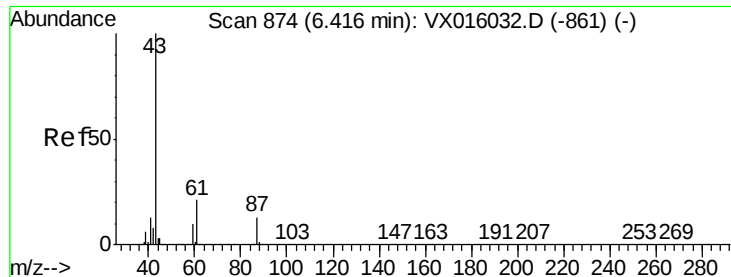


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



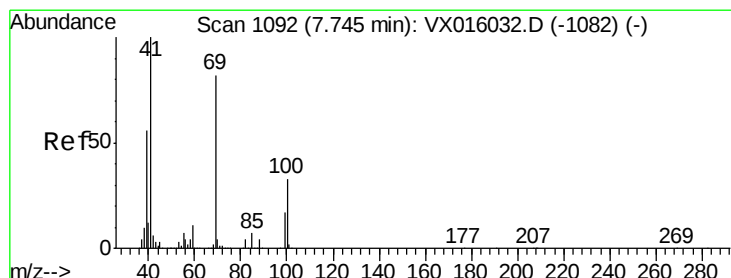
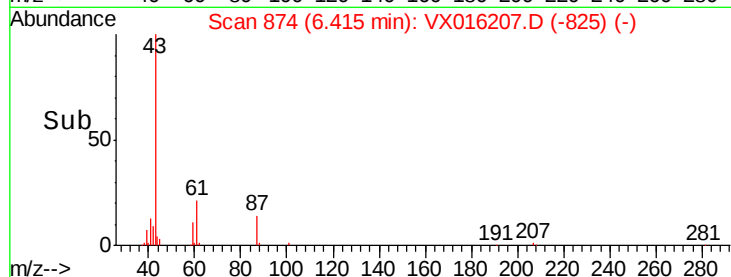
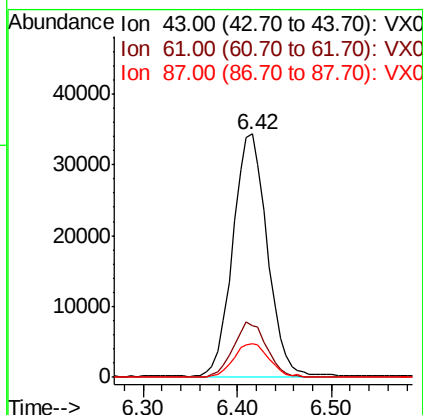
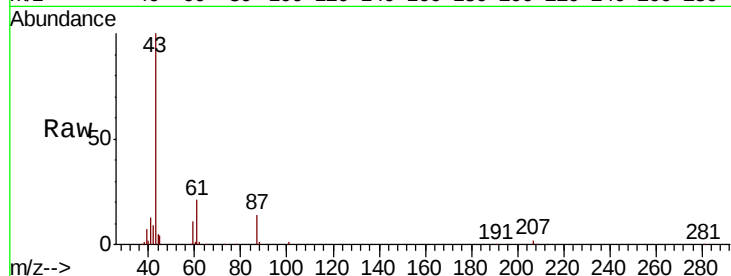


#43

Isopropyl Acetate
 Concen: 10.397 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX016207.D
 Acq: 14 May 2020 02:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-051220

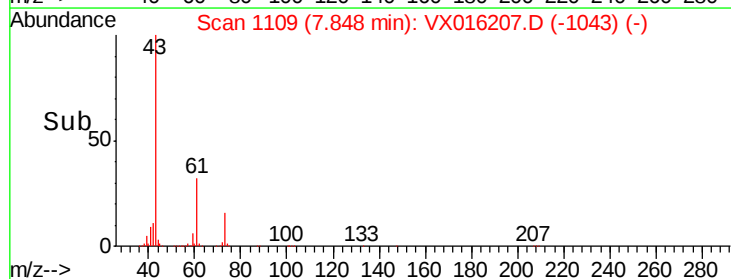
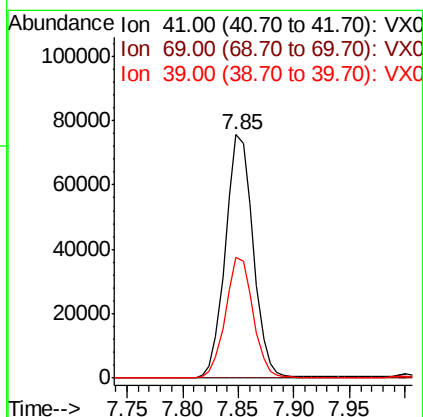
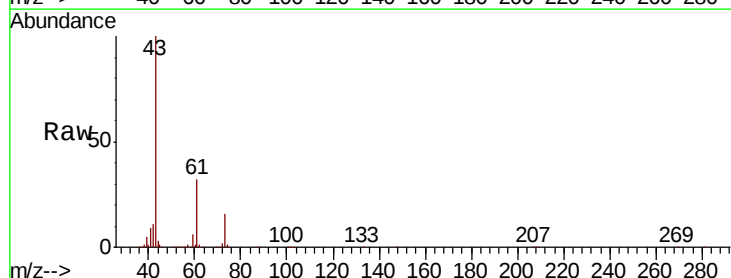
Tot Ion	Ratio	Lower	Upper
43	100		
61	22.2	17.0	25.4
87	14.5	11.0	16.6

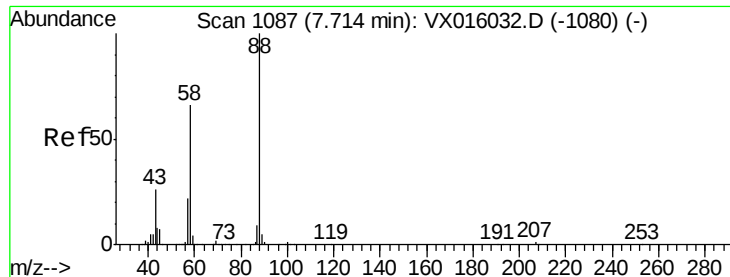


#48

Methyl methacrylate
 Concen: 33.023 ug/l
 RT: 7.85 min Scan# 1109
 Delta R.T. 0.10 min
 Lab File: VX016207.D
 Acq: 14 May 2020 02:47

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.2	67.8	101.6#
39	49.7	44.6	67.0





#49

1,4-Dioxane

Concen: 2.606 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.13 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

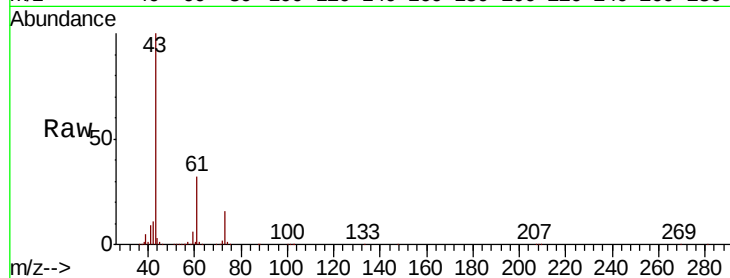
Tot Ion: 88 Resp: 247

Ion Ratio Lower Upper

88 100

43 583306.1 25.3 37.9#

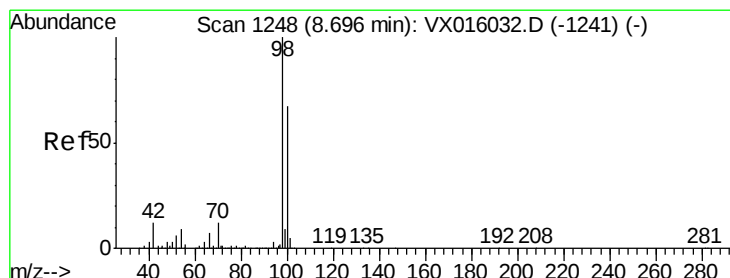
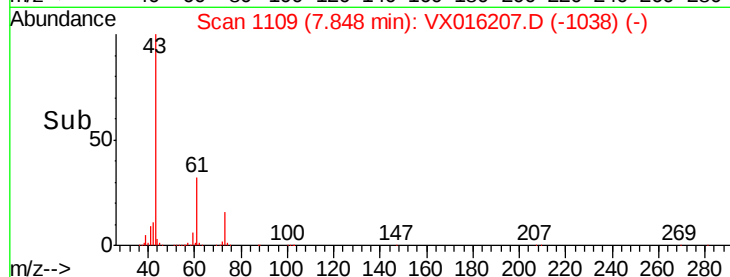
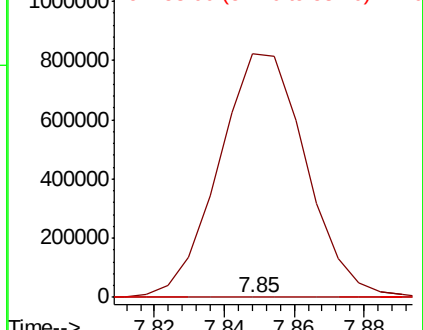
58 2548.6 55.9 83.9#



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: 51.220 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016207.D

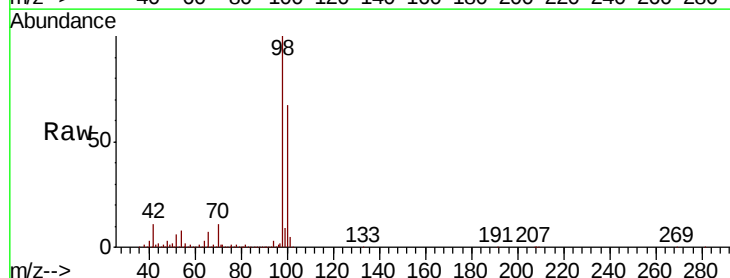
Acq: 14 May 2020 02:47

Tgt Ion: 98 Resp: 572800

Ion Ratio Lower Upper

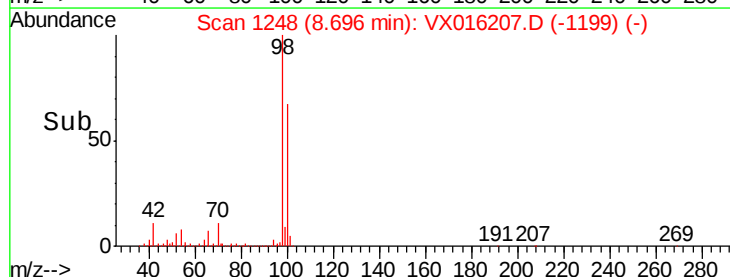
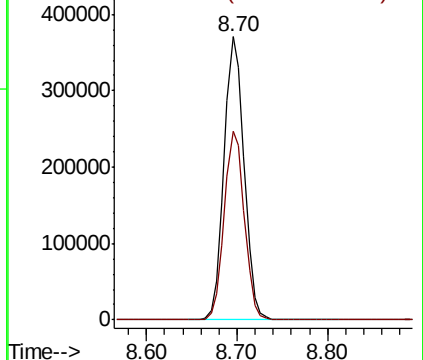
98 100

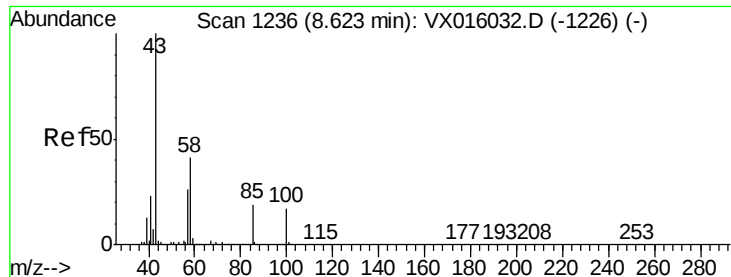
100 67.1 53.7 80.5



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: 15.746 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

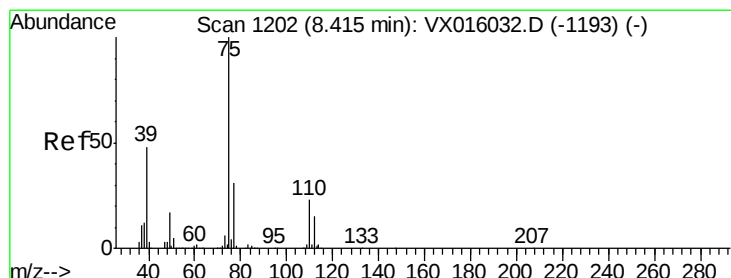
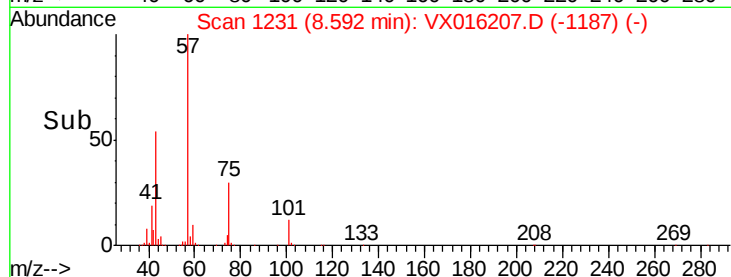
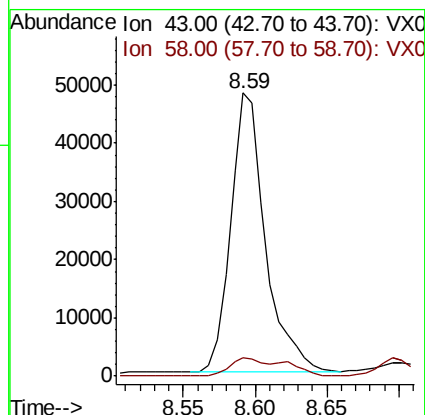
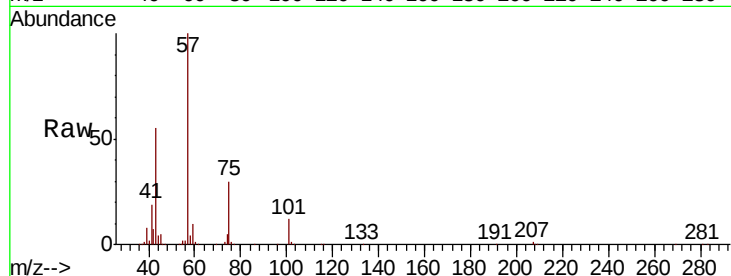
SU-02-051220

Tot Ion: 43 Resp: 80357

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 6.927 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

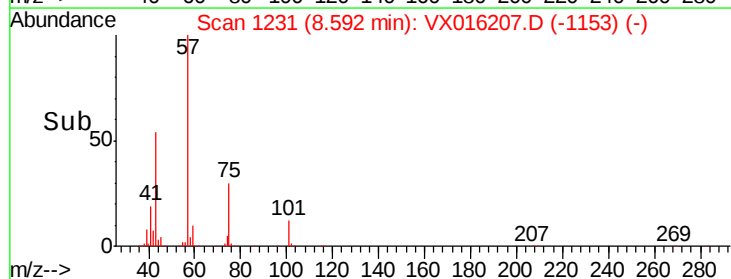
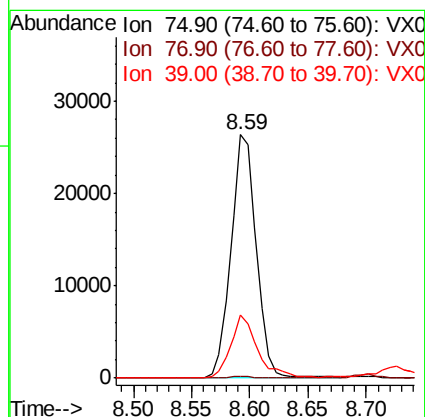
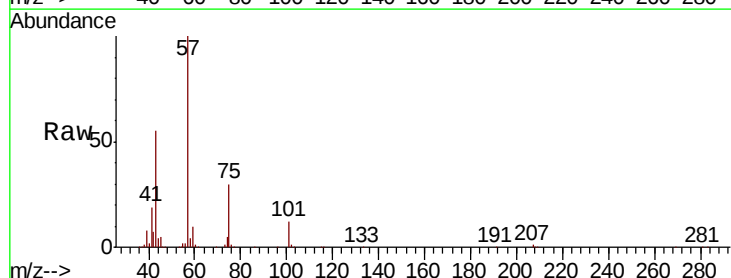
Tgt Ion: 75 Resp: 39864

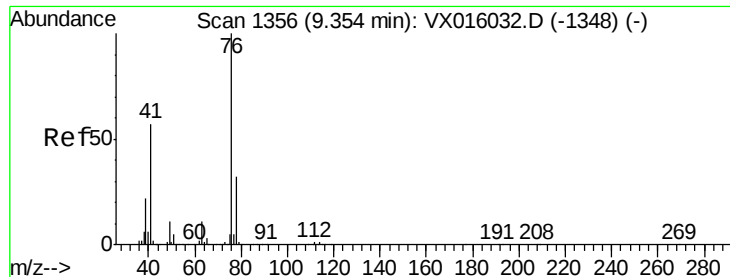
Ion Ratio Lower Upper

75 100

77 0.6 24.7 37.1#

39 25.9 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 1.142 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampled :

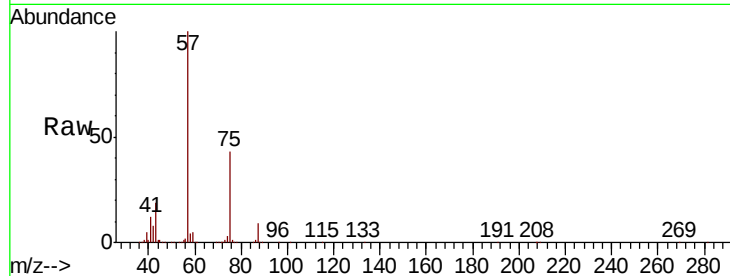
SU-02-051220

Tot Ion: 76 Resp: 6450

Ion Ratio Lower Upper

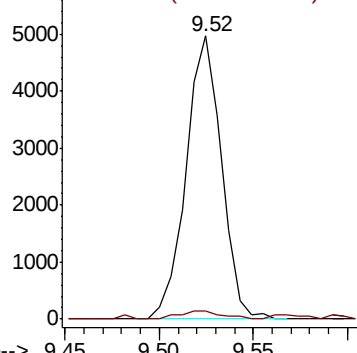
76 100

78 3.6 25.9 38.9#

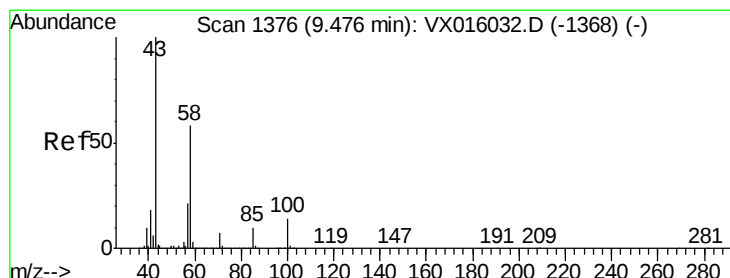
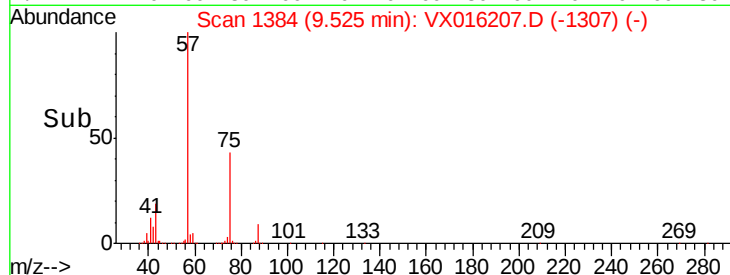


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#59

2-Hexanone

Concen: 20.989 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016207.D

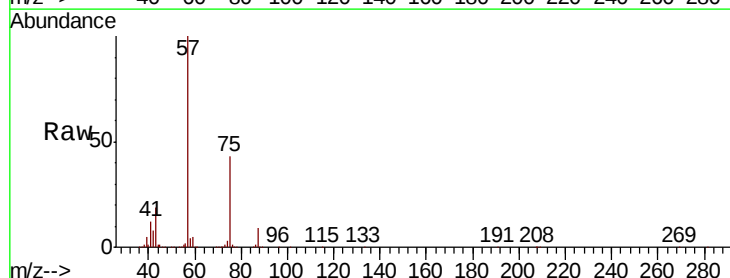
Acq: 14 May 2020 02:47

Tgt Ion: 43 Resp: 84118

Ion Ratio Lower Upper

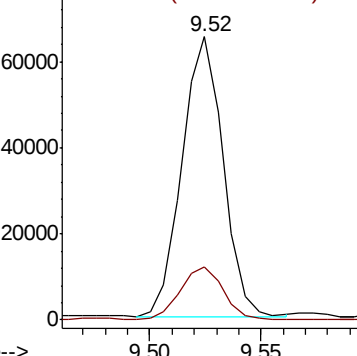
43 100

58 20.0 28.6 85.9#

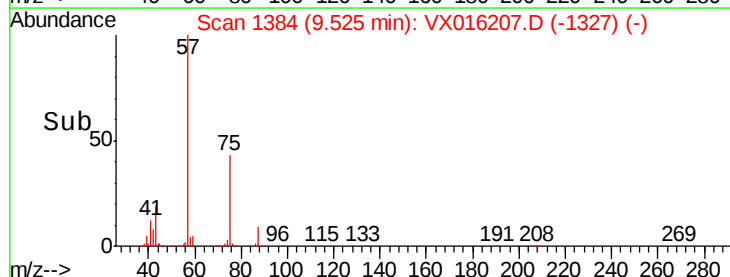


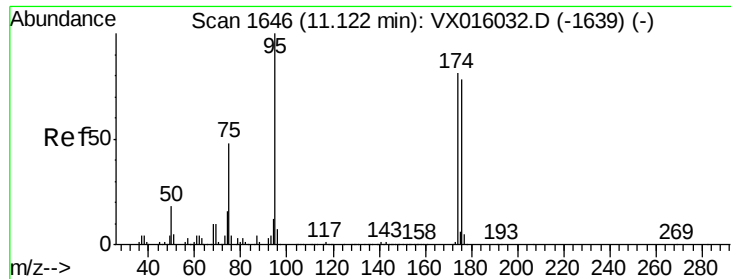
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 54.303 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

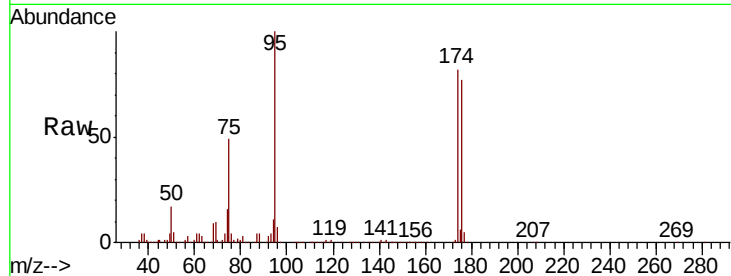
Tot Ion: 95 Resp: 230979

Ion Ratio Lower Upper

95 100

174 81.5 0.0 159.4

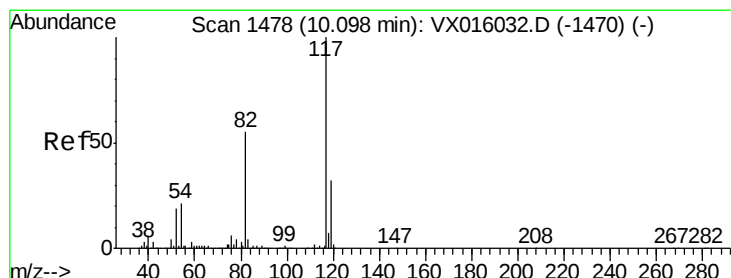
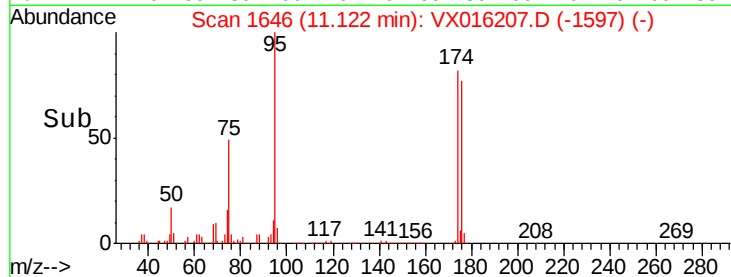
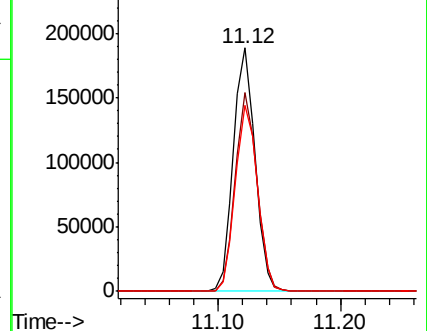
176 78.2 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016207.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016207.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016207.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

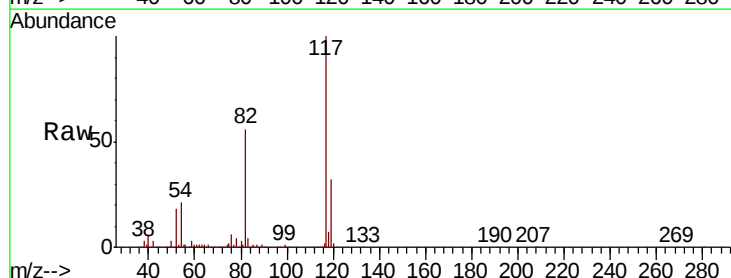
Tgt Ion: 117 Resp: 455602

Ion Ratio Lower Upper

117 100

82 55.6 44.4 66.6

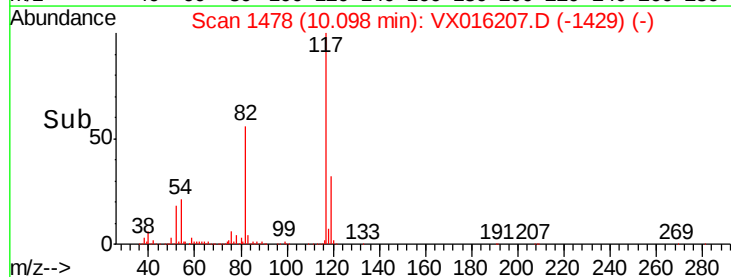
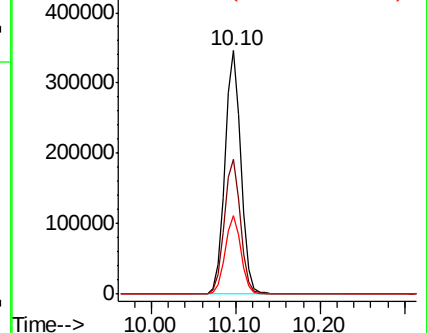
119 32.1 25.5 38.3

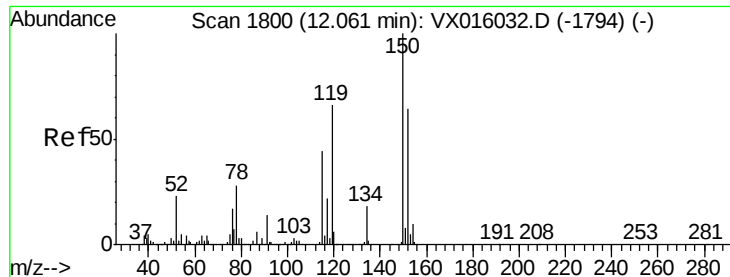


Abundance Ion 116.90 (116.60 to 117.60): VX016207.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016207.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016207.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: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

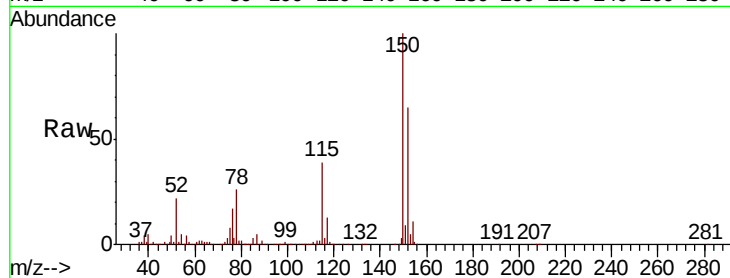
Tot Ion:152 Resp: 235989

Ion Ratio Lower Upper

152 100

115 59.4 41.3 124.1

150 155.6 0.0 352.2

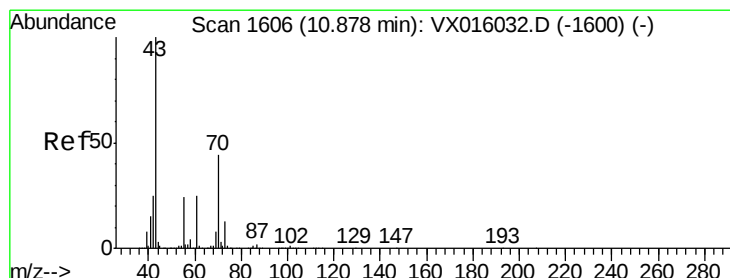
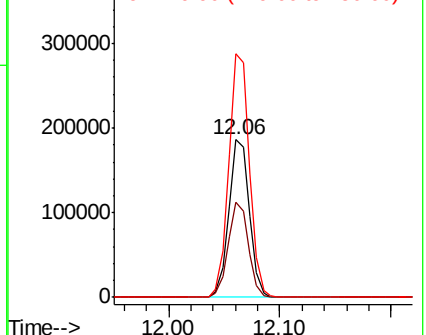
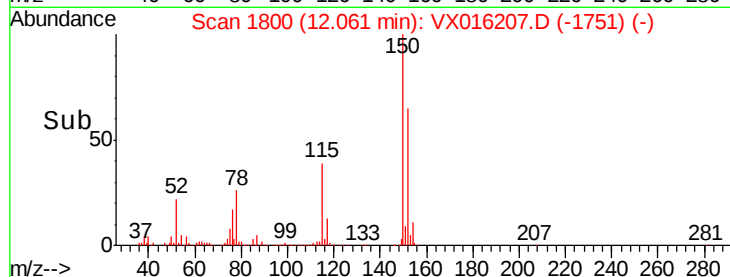


Abundance

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-ethyl acetate

Concen: 0.586 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Tgt Ion: 43 Resp: 4694

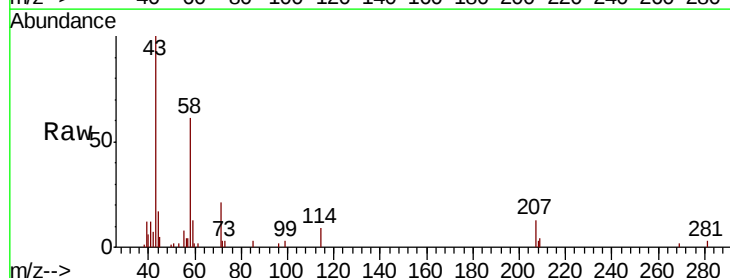
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 11.4 19.7 29.5#

61 0.0 20.9 31.3#



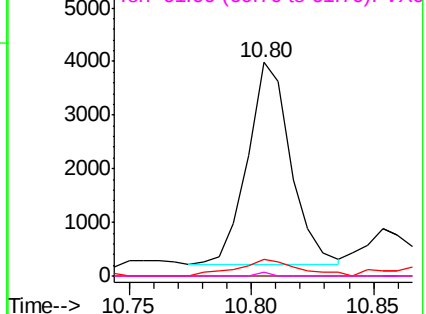
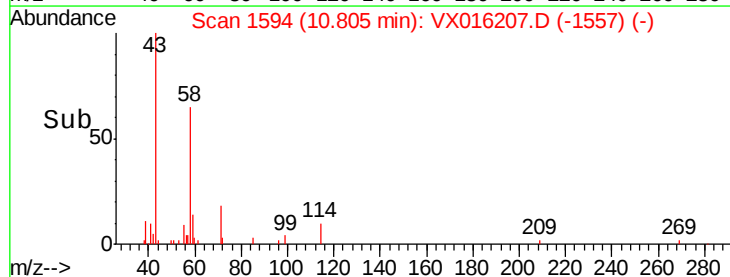
Abundance

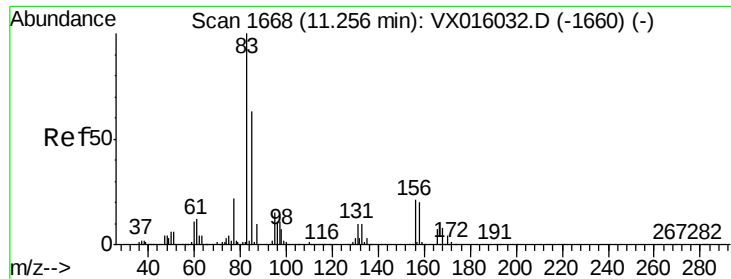
Ion 43.00 (42.70 to 43.70): VX0

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: 2.100 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

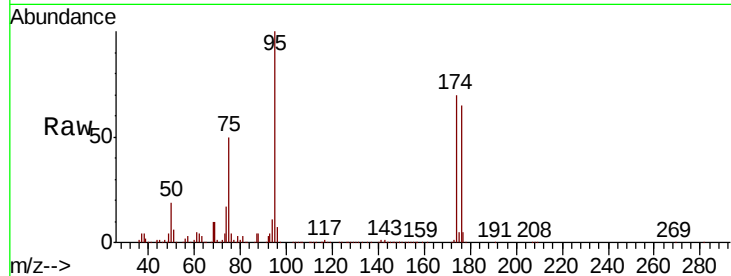
Tot Ion: 83 Resp: 164

Ion Ratio Lower Upper

83 100

131 178.7 5.1 15.4#

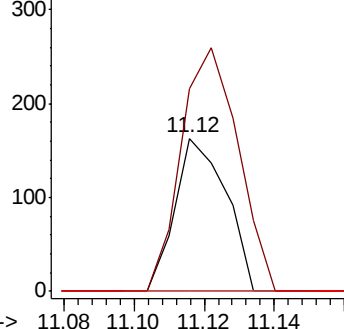
85 0.0 32.0 96.0#



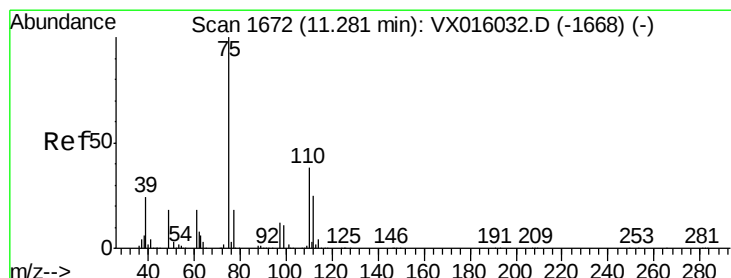
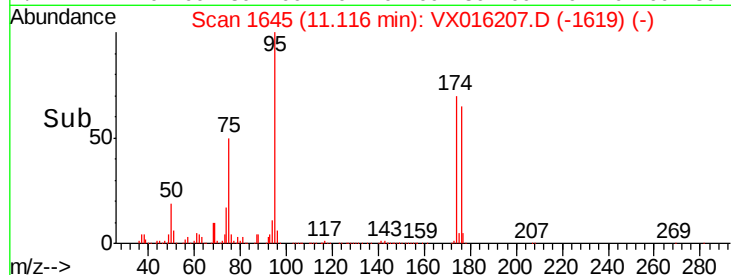
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.171 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016207.D

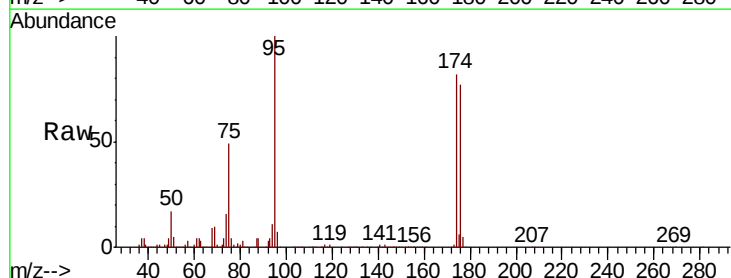
Acq: 14 May 2020 02:47

Tgt Ion: 75 Resp: 113372

Ion Ratio Lower Upper

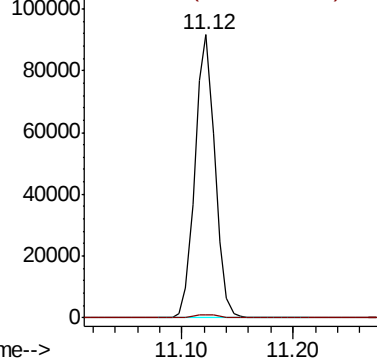
75 100

77 1.4 21.2 63.6#

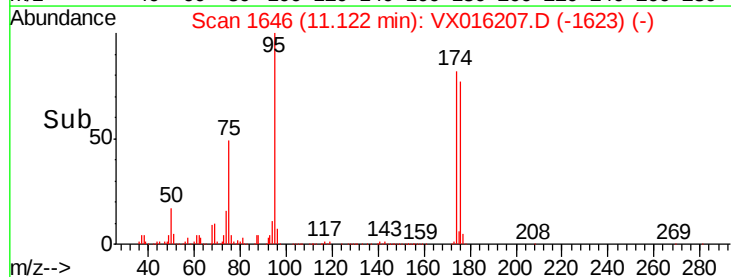


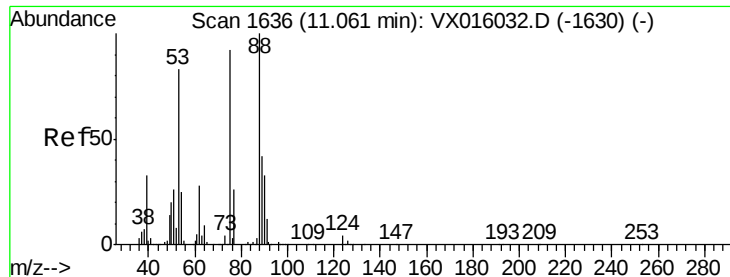
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 50.451 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

SU-02-051220

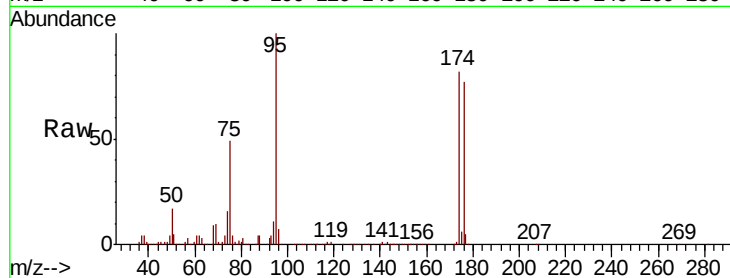
Tot Ion: 75 Resp: 113372

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

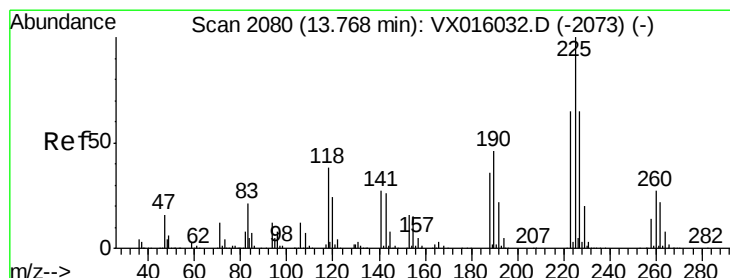
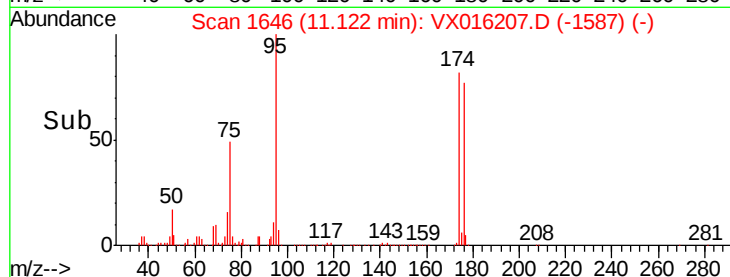
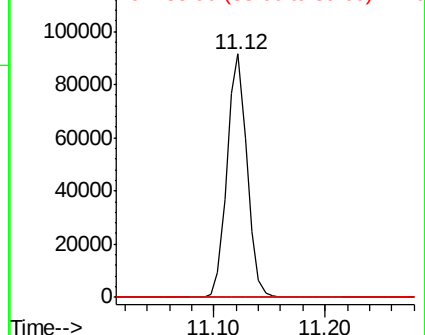


Abundance

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



#94

Hexachlorobutadiene

Concen: 0.586 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016207.D

Acq: 14 May 2020 02:47

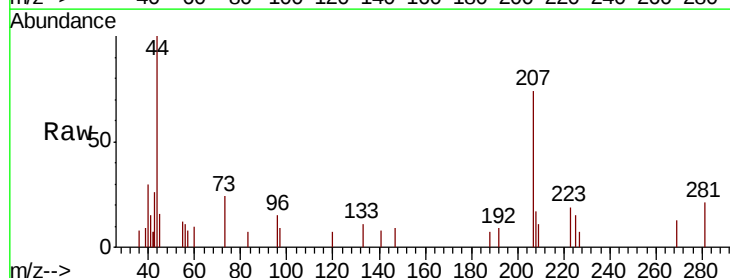
Tgt Ion: 225 Resp: 154

Ion Ratio Lower Upper

225 100

223 74.7 32.3 96.9

227 54.5 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

