

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051120\
 Data File : VX016156.D
 Acq On : 11 May 2020 17:58
 Operator : JC/SP
 Sample : PB128761ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#06

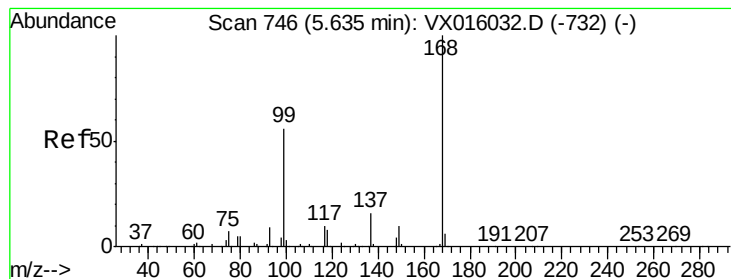
Quant Time: May 12 07:00:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	290723	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	484168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	469133	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	244997	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	179338	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
35) Dibromofluoromethane	5.47	113	144676	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	8.70	98	598309	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	11.12	95	240198	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	2792	2.886	ug/l	96
13) Acrolein	2.25	56	236	0.390	ug/l #	73
16) Acetone	2.42	43	15681	9.187	ug/l	99
17) Carbon Disulfide	2.56	76	1265	Below Cal	#	88
18) Methyl Acetate	2.75	43	3705	0.883	ug/l	98
20) Methylene Chloride	2.84	84	5935	1.687	ug/l	97
25) 2-Butanone	4.64	43	10483	3.811	ug/l	92
29) Tetrahydrofuran	5.12	42	1671	0.917	ug/l #	39
31) Cyclohexane	5.63	56	5727	1.078	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	21699	4.553	ug/l #	49
37) Ethyl Acetate	4.64	43	10483	1.898	ug/l #	67
38) Carbon Tetrachloride	5.64	117	27624	5.702	ug/l #	14
43) Isopropyl Acetate	6.42	43	86957	9.866	ug/l	99
48) Methyl methacrylate	7.85	41	133208	31.896	ug/l #	41
49) 1,4-Dioxane	7.85	88	262	2.616	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	82618	15.318	ug/l #	52
52) Toluene	8.77	92	2855	0.328	ug/l	98
54) cis-1,3-Dichloropropene	8.60	75	40120	6.596	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	6836	1.146	ug/l #	45
59) 2-Hexanone	9.52	43	86369	20.391	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	11.31	83	132	2.089	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	120443	21.664	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	5594	0.372	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	120443	51.627	ug/l #	13

(#) = 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: VX016156.D

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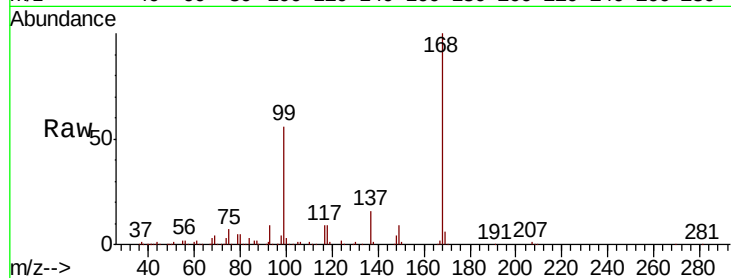
PB128761ZHE#06

Tot Ion:168 Resp: 290723

Ion Ratio Lower Upper

168 100

99 55.9 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

120000

100000

80000

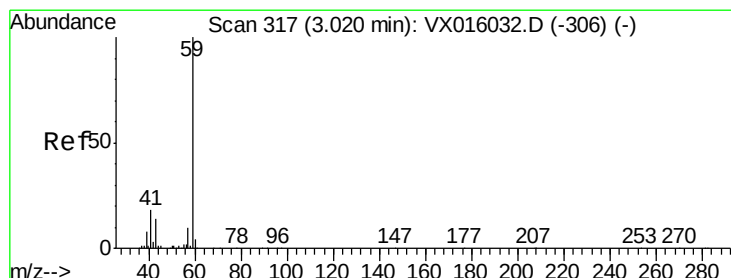
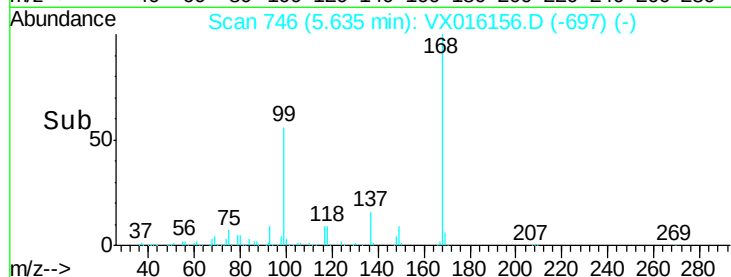
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.886 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016156.D

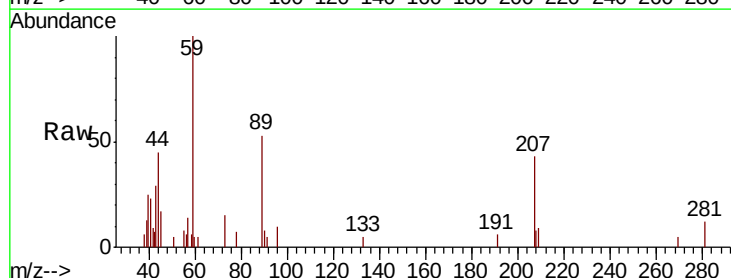
Acq: 11 May 2020 17:58

Tgt Ion: 59 Resp: 2792

Ion Ratio Lower Upper

59 100

57 11.7 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

1200

1000

800

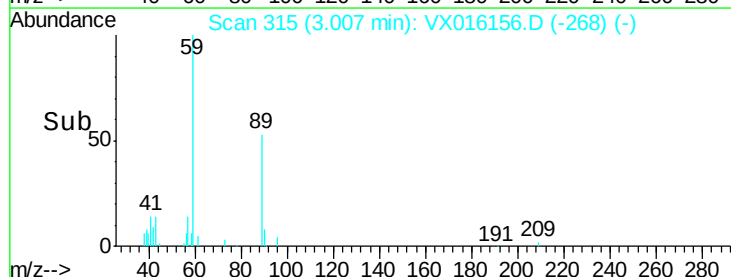
600

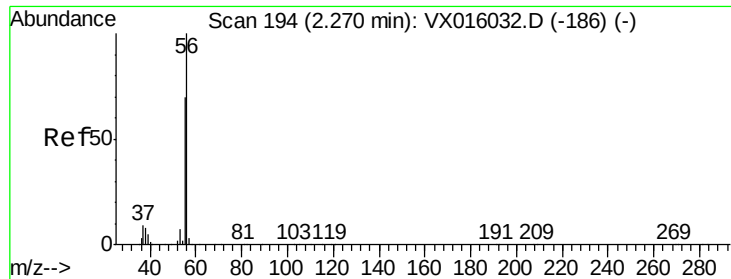
400

200

0

Time-->





#13

Acrolein

Concen: 0.390 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

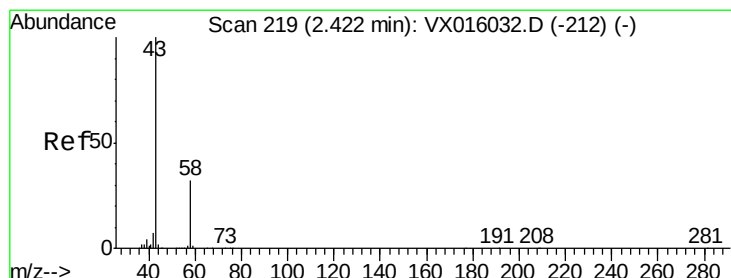
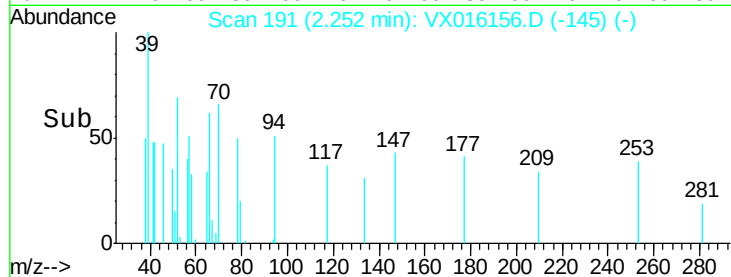
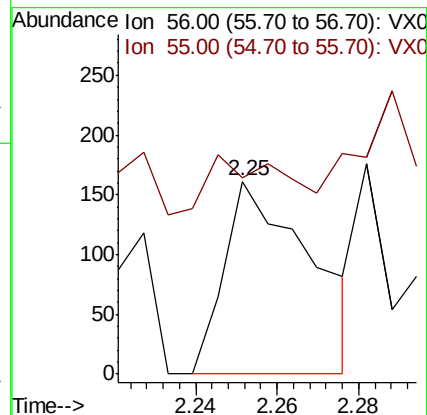
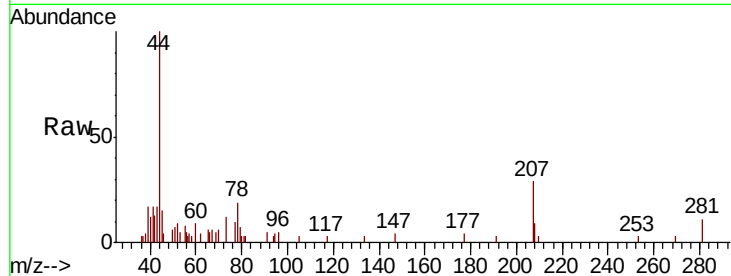
PB128761ZHE#06

Tot Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 48.3 56.5 84.7#



#16

Acetone

Concen: 9.187 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016156.D

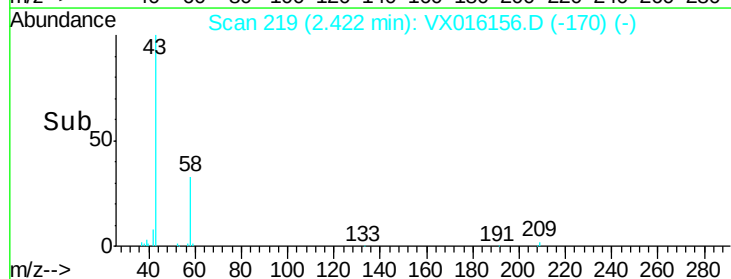
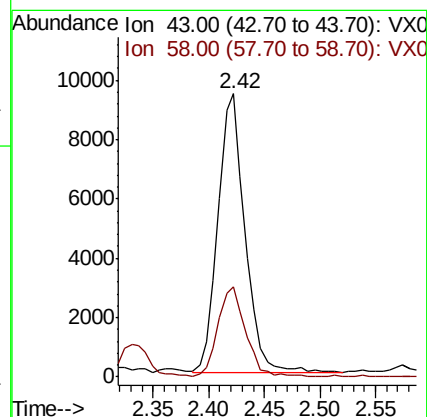
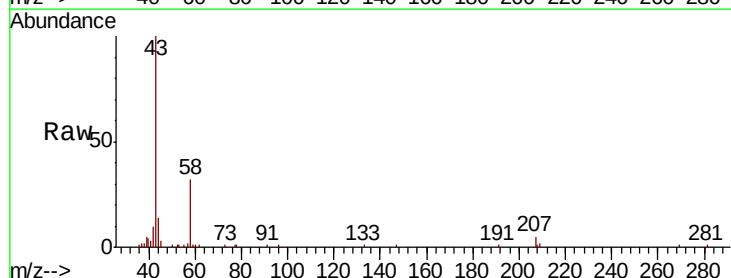
Acq: 11 May 2020 17:58

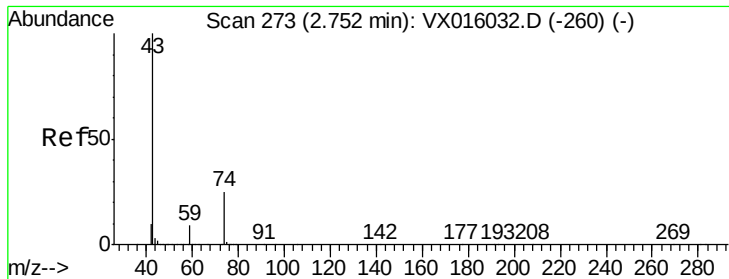
Tgt Ion: 43 Resp: 15681

Ion Ratio Lower Upper

43 100

58 32.3 25.4 38.0





#18

Methvl Acetate

Concen: 0.883 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

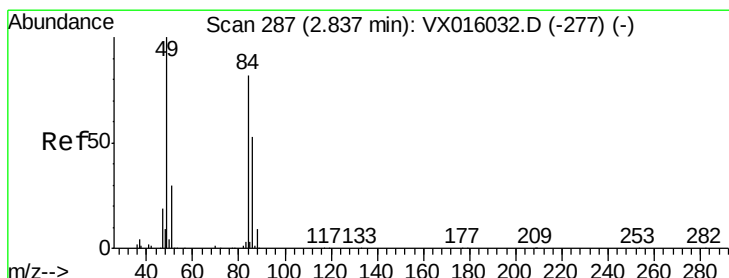
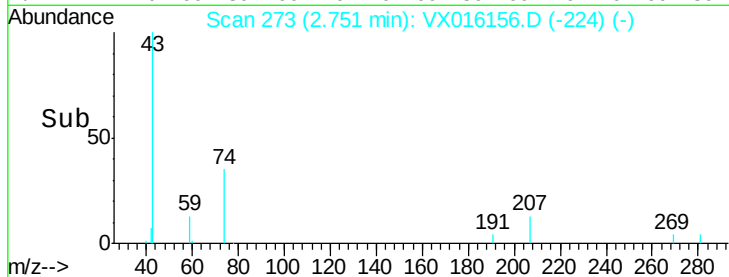
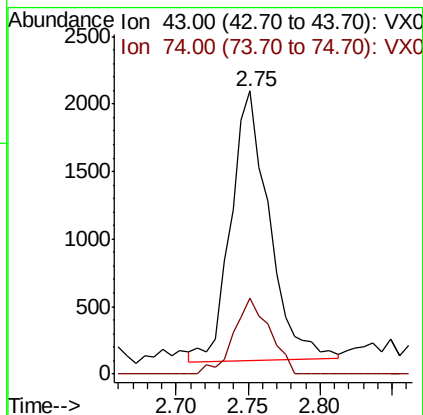
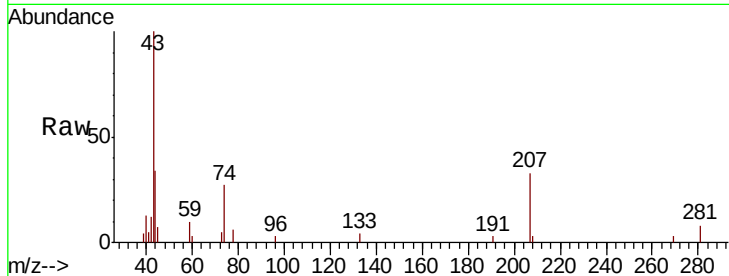
PB128761ZHE#06

Tot Ion: 43 Resp: 3705

Ion Ratio Lower Upper

43 100

74 26.5 20.2 30.2



#20

Methylene Chloride

Concen: 1.687 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Tgt Ion: 84 Resp: 5935

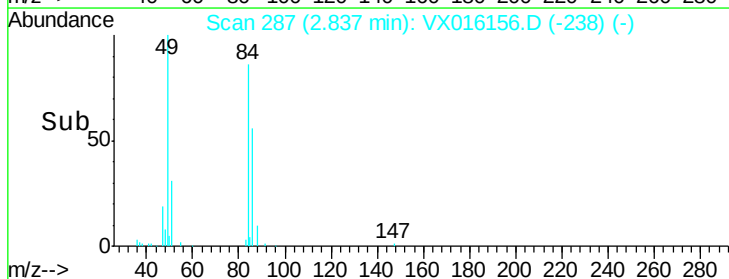
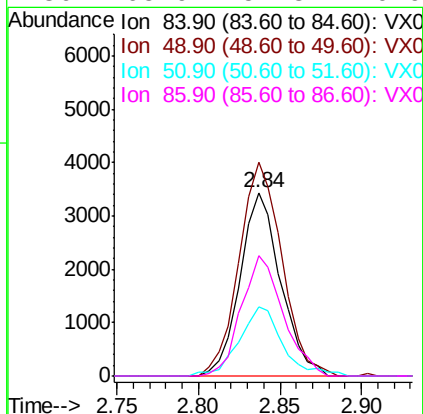
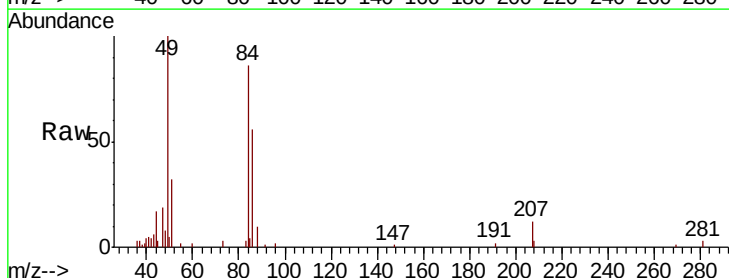
Ion Ratio Lower Upper

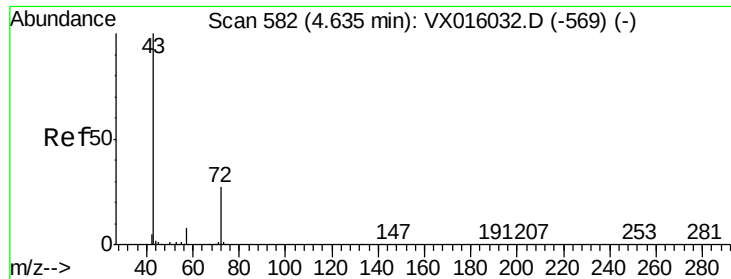
84 100

49 116.7 97.3 145.9

51 37.6 29.3 43.9

86 65.9 51.3 76.9





#25

2-Butanone

Concen: 3.811 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

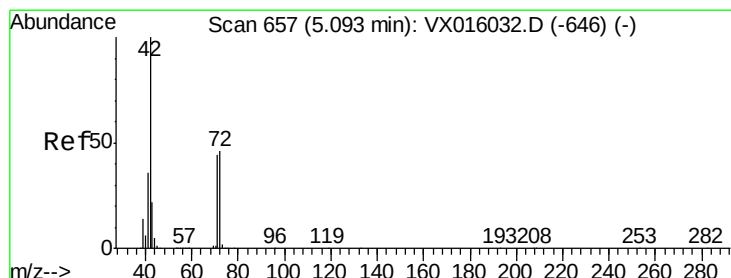
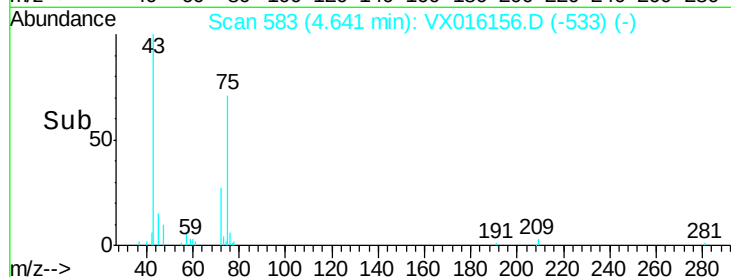
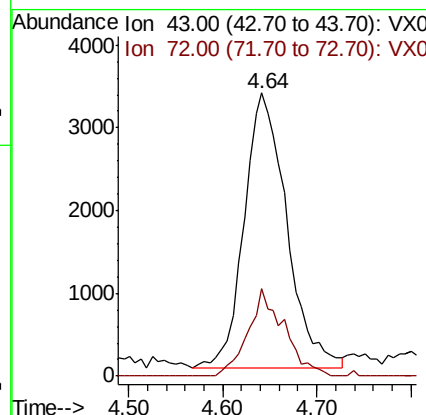
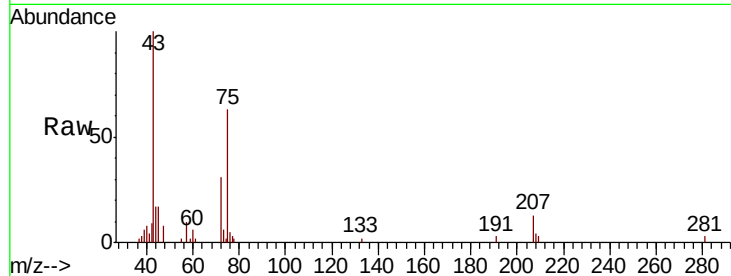
PB128761ZHE#06

Tot Ion: 43 Resp: 10483

Ion Ratio Lower Upper

43 100

72 31.6 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.917 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

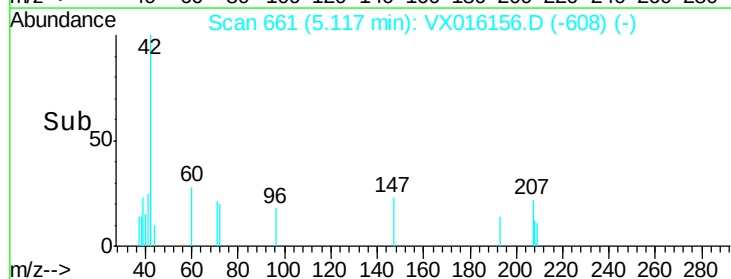
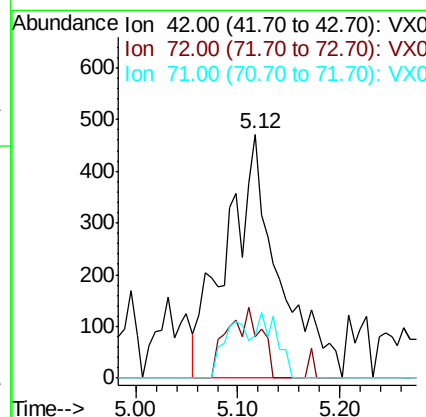
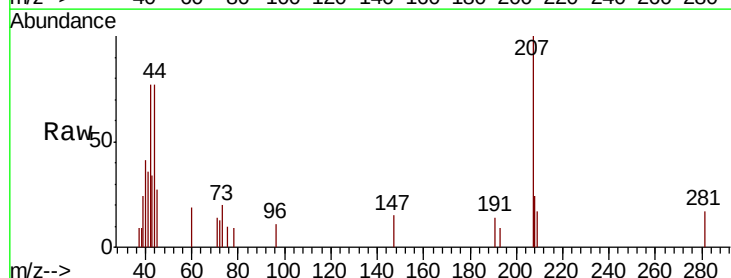
Tgt Ion: 42 Resp: 1671

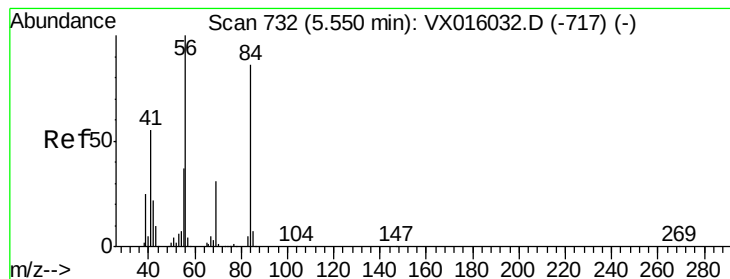
Ion Ratio Lower Upper

42 100

72 0.0 37.1 55.7#

71 9.6 34.5 51.7#





#31

Cyclohexane

Concen: 1.078 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#06

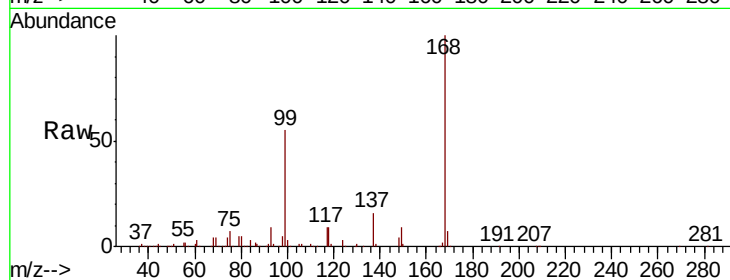
Tot Ion: 56 Resp: 5727

Ion Ratio Lower Upper

56 100

69 206.7 25.0 37.6#

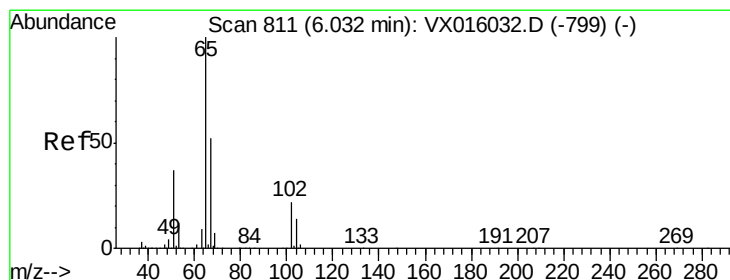
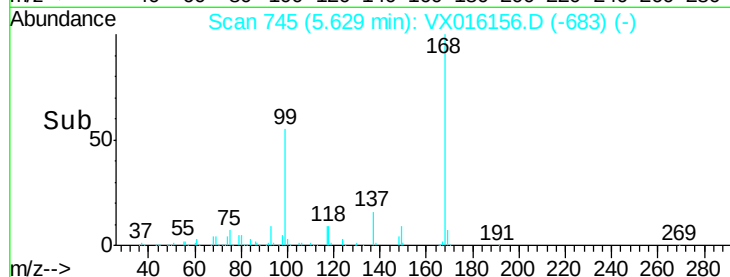
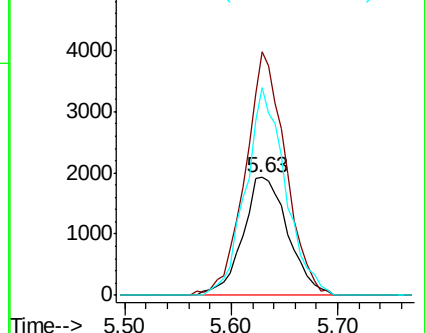
84 176.3 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.878 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016156.D

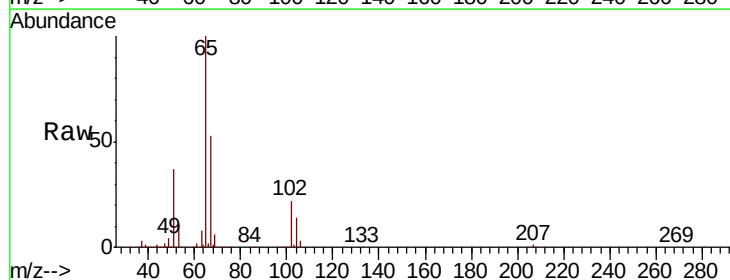
Acq: 11 May 2020 17:58

Tgt Ion: 65 Resp: 179338

Ion Ratio Lower Upper

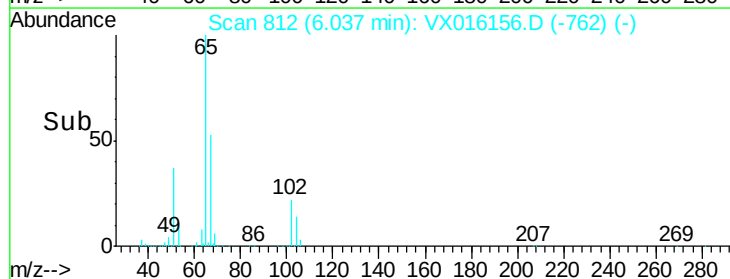
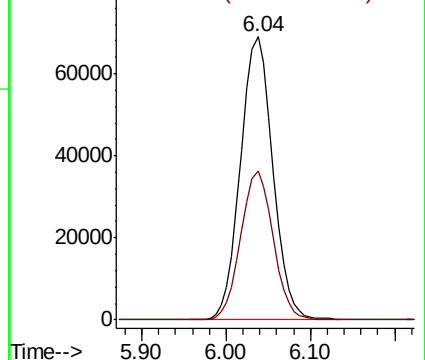
65 100

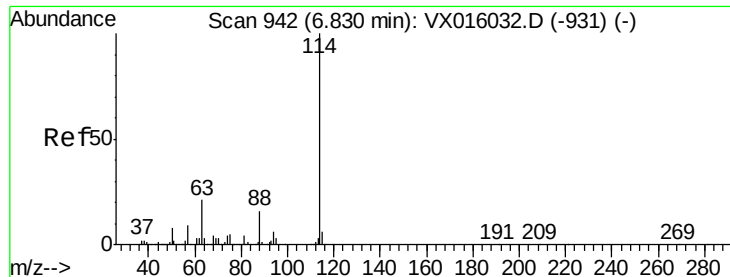
67 52.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

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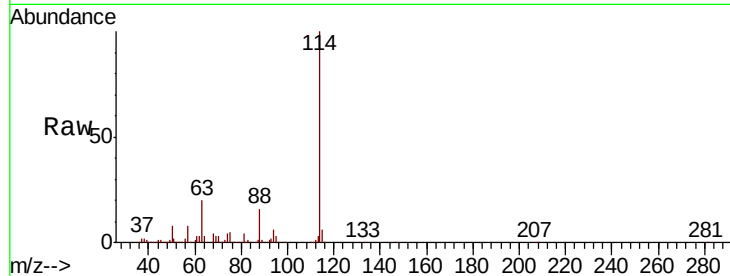
Tot Ion:114 Resp: 484168

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

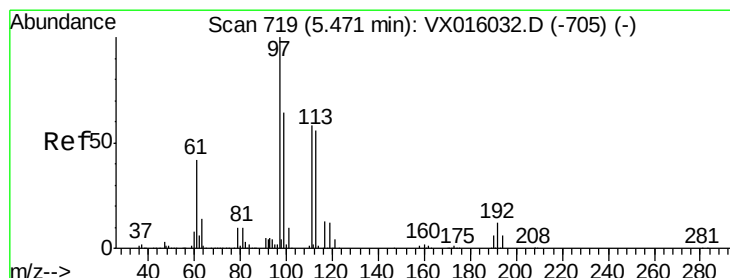
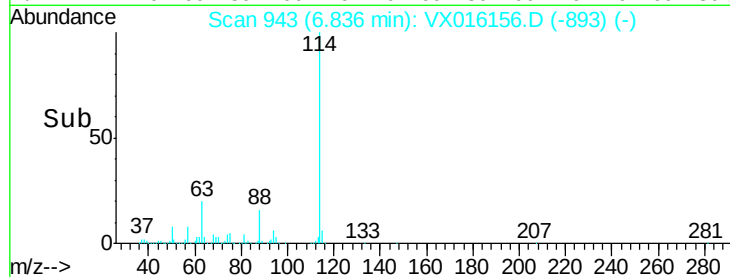
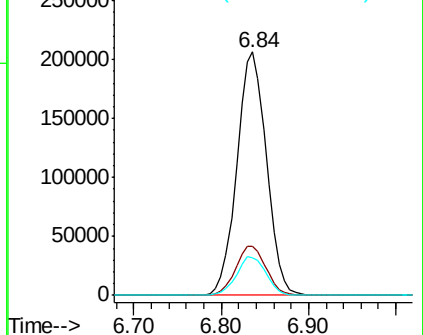
88 15.7 0.0 31.4



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: 47.165 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

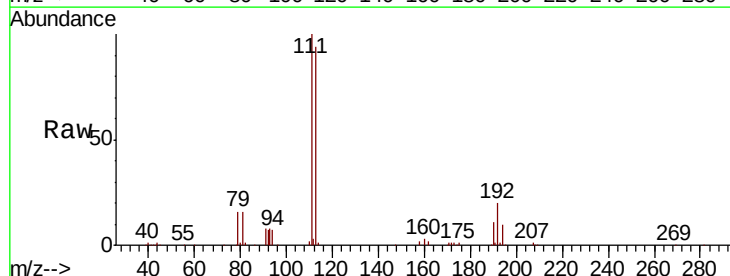
Tgt Ion:113 Resp: 144676

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

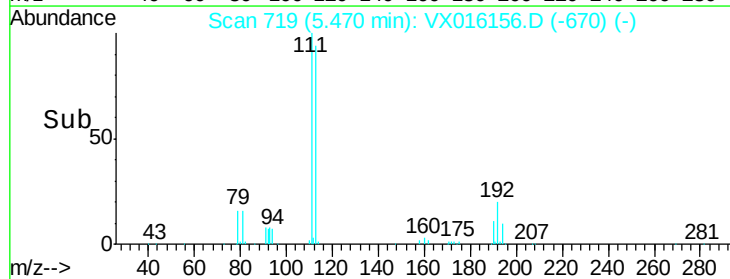
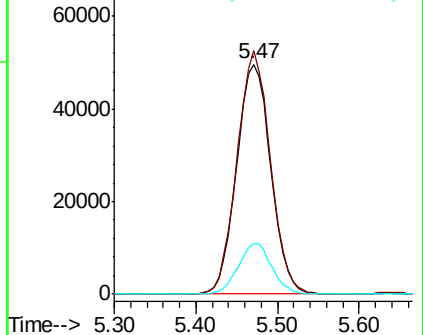
192 21.7 17.0 25.4

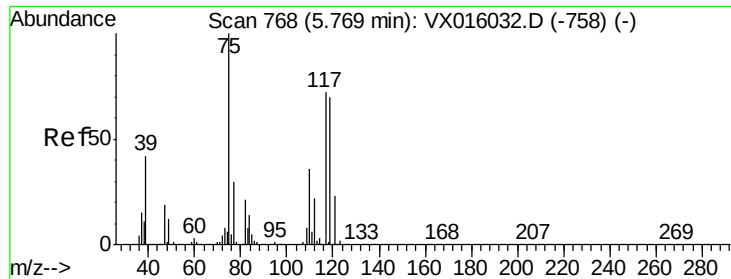


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.553 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016156.D

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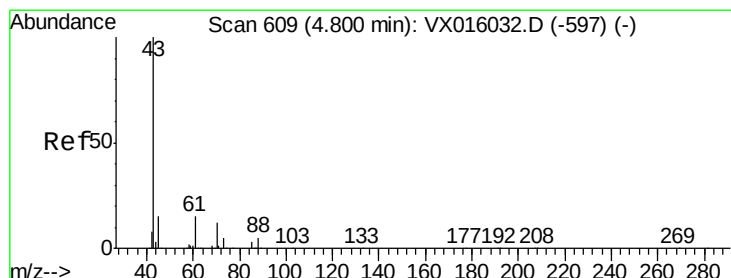
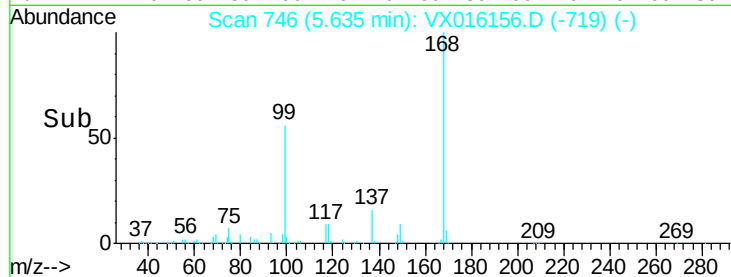
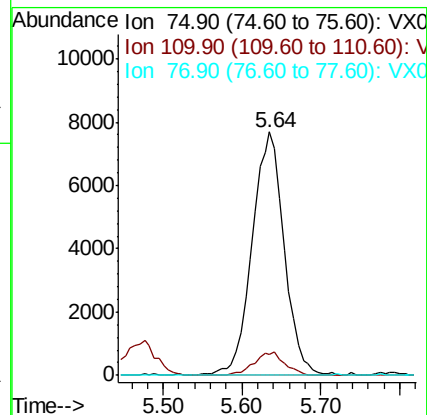
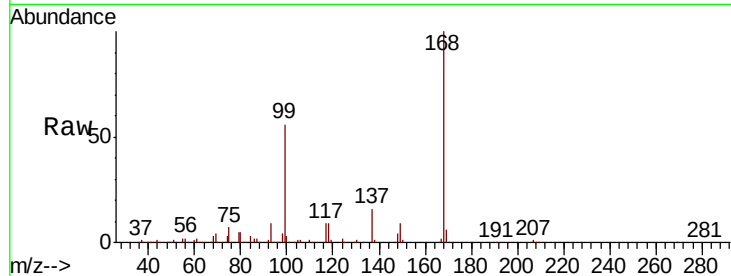
Tot Ion: 75 Resp: 21699

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 1.898 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

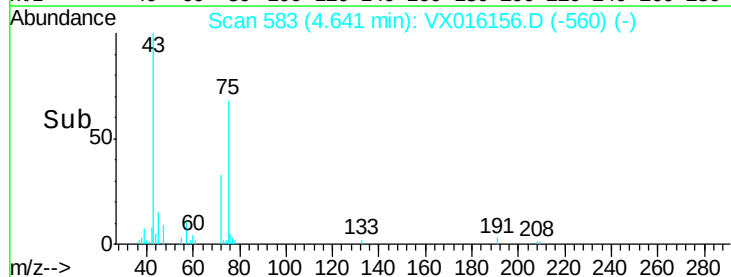
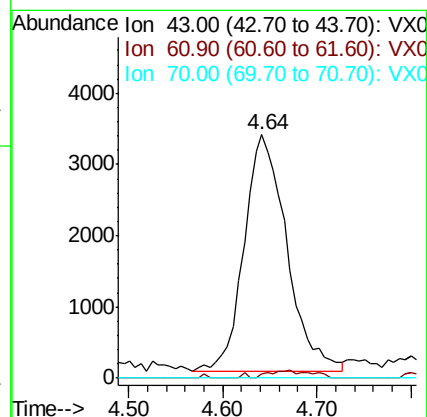
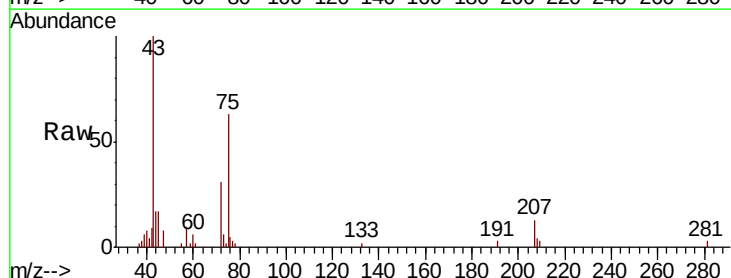
Tgt Ion: 43 Resp: 10483

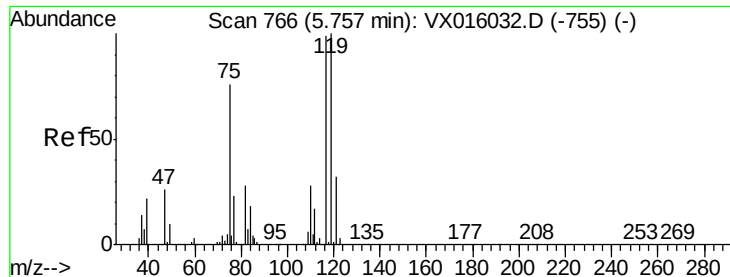
Ion Ratio Lower Upper

43 100

61 0.3 11.7 17.5#

70 0.0 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 5.702 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#06

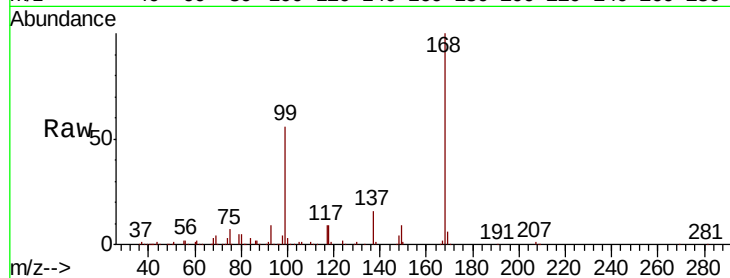
Tot Ion:117 Resp: 27624

Ion Ratio Lower Upper

117 100

119 5.6 80.3 120.5#

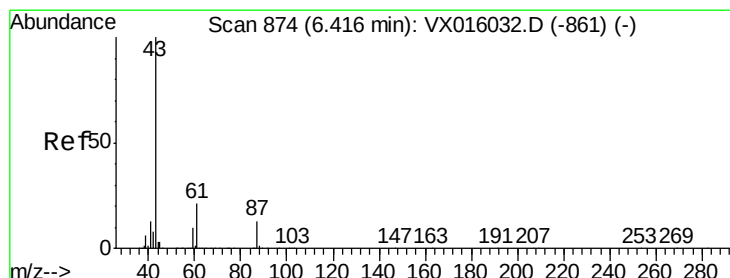
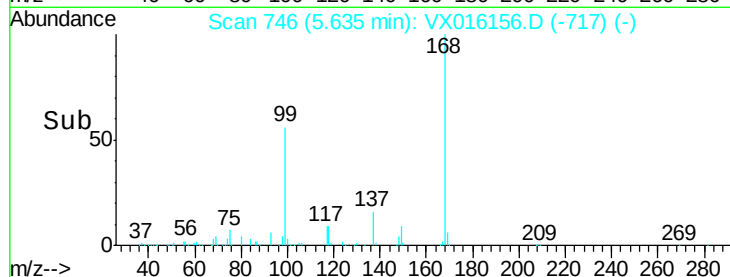
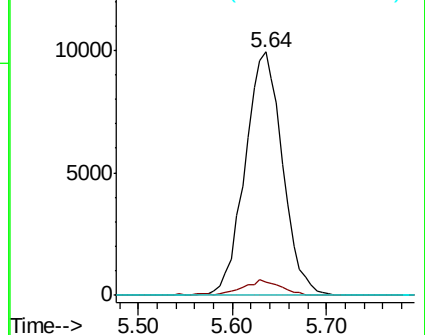
121 0.0 25.7 38.5#



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: 9.866 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

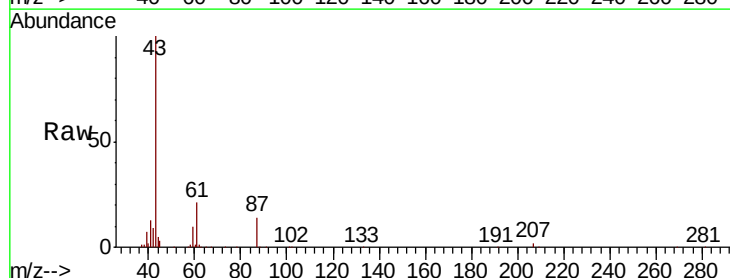
Tgt Ion: 43 Resp: 86957

Ion Ratio Lower Upper

43 100

61 21.7 17.0 25.4

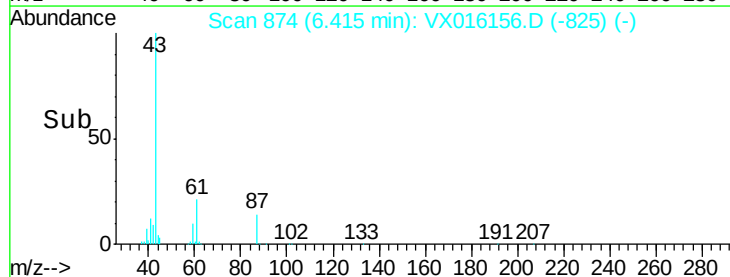
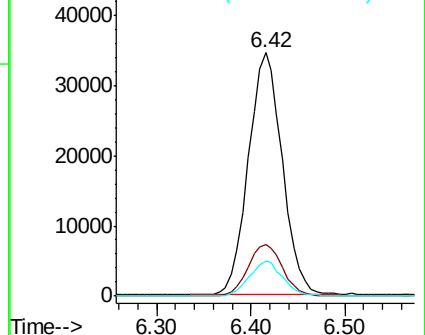
87 14.3 11.0 16.6

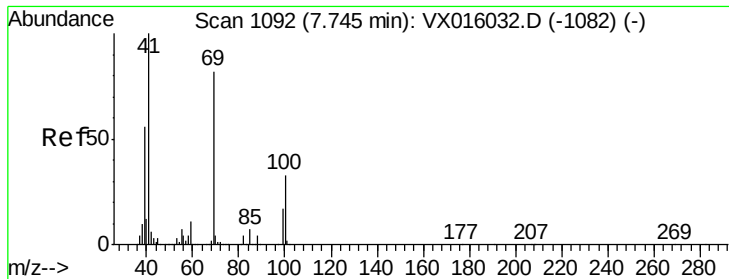


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 31.896 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.11 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#06

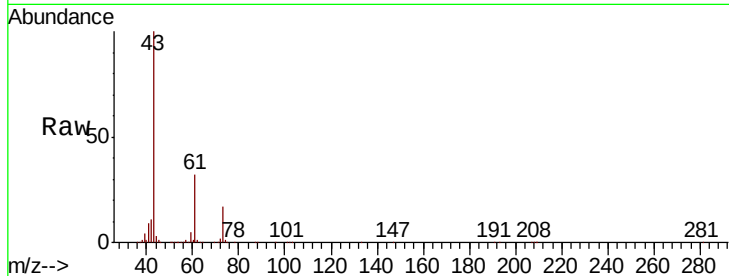
Tot Ion: 41 Resp: 133208

Ion Ratio Lower Upper

41 100

69 0.2 67.8 101.6#

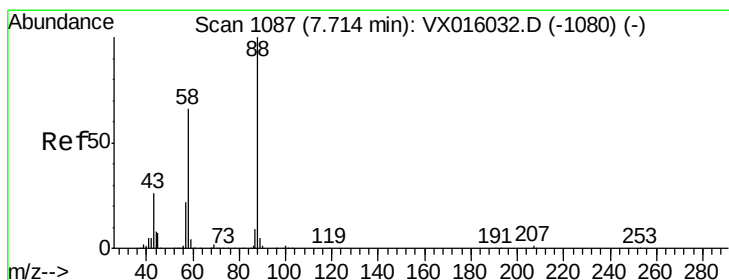
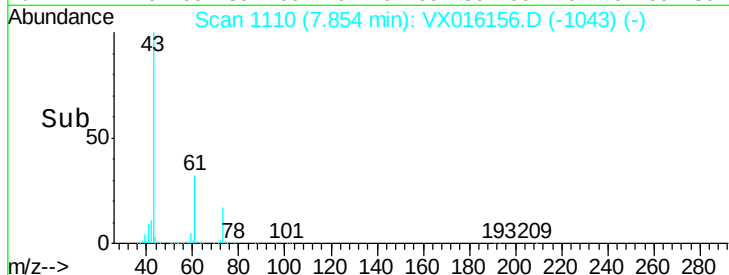
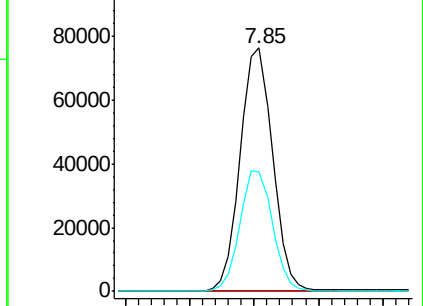
39 50.3 44.6 67.0



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: 2.616 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

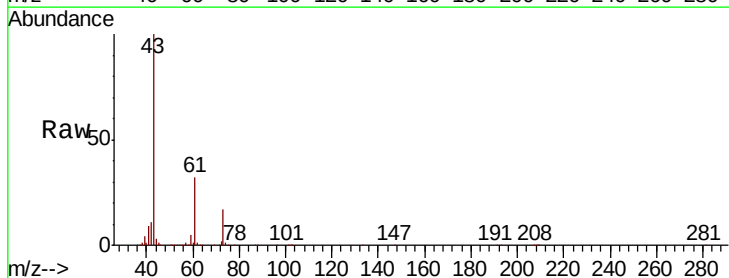
Tgt Ion: 88 Resp: 262

Ion Ratio Lower Upper

88 100

43 561982.4 25.3 37.9#

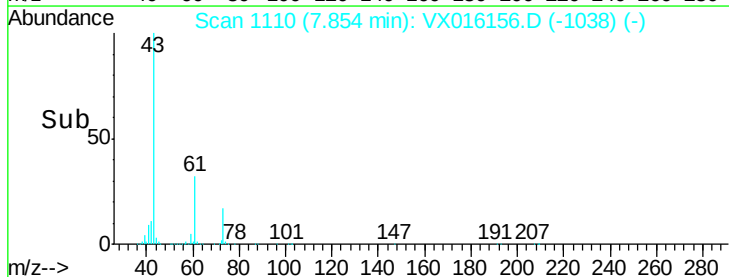
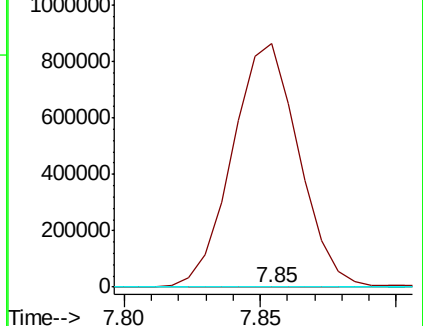
58 2348.1 55.9 83.9#

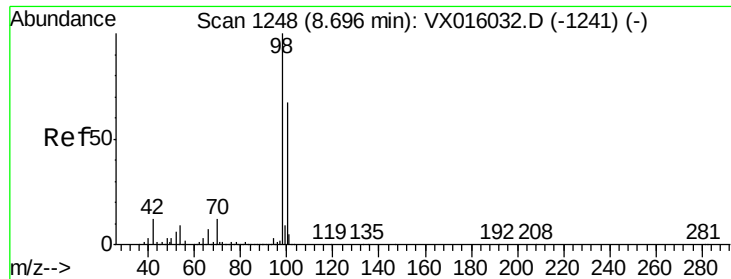


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.623 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

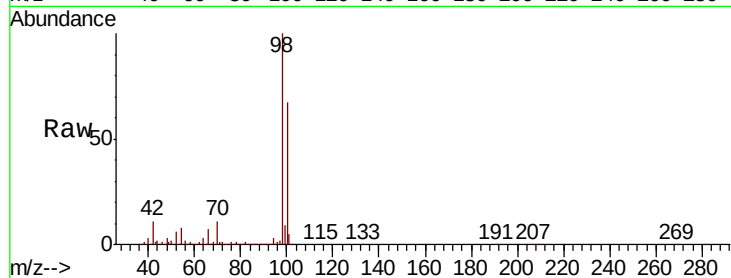
PB128761ZHE#06

Tot Ion: 98 Resp: 598309

Ion Ratio Lower Upper

98 100

100 66.9 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

400000

300000

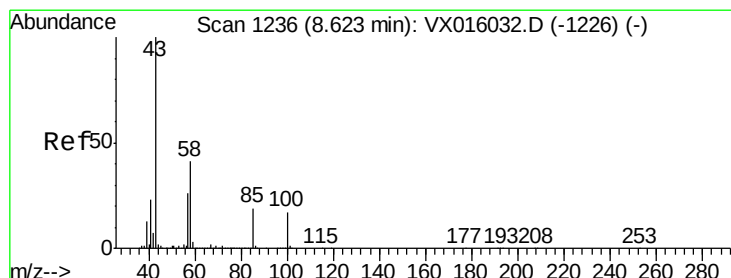
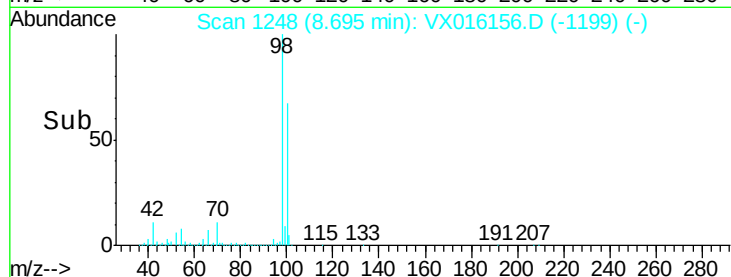
200000

100000

0

Time-->

8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 15.318 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX016156.D

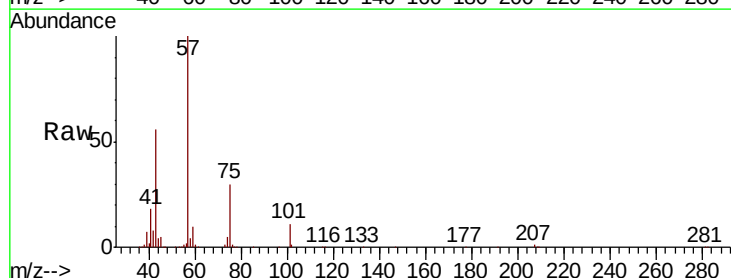
Acq: 11 May 2020 17:58

Tgt Ion: 43 Resp: 82618

Ion Ratio Lower Upper

43 100

58 10.9 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.60

60000

50000

40000

30000

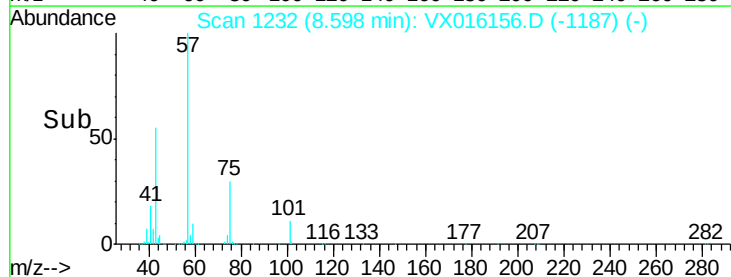
20000

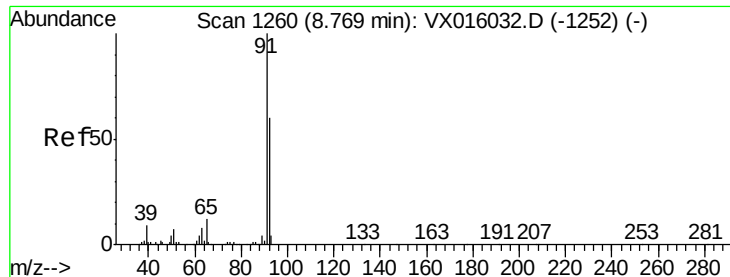
10000

0

Time-->

8.50 8.55 8.60 8.65 8.70





#52

Toluene

Concen: 0.328 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

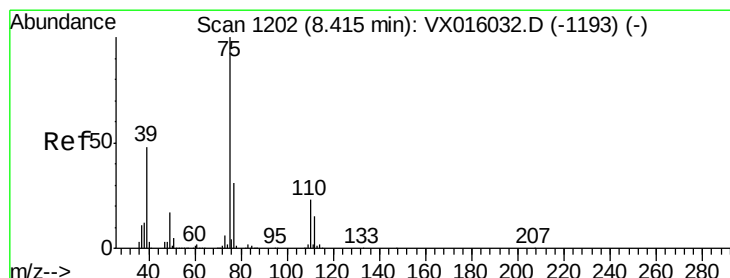
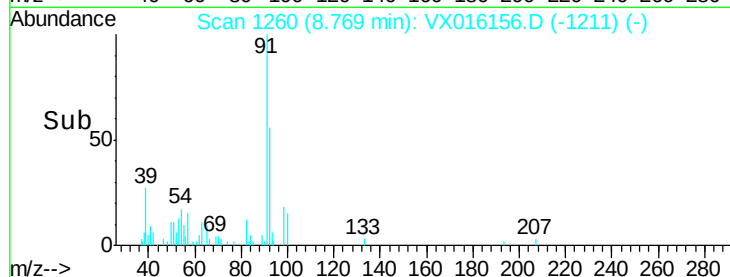
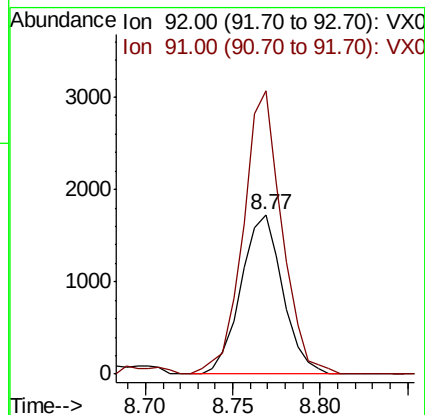
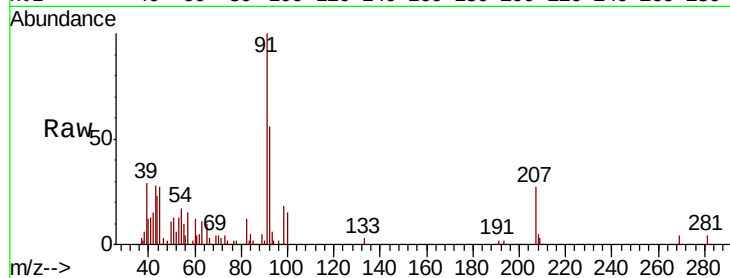
PB128761ZHE#06

Tot Ion: 92 Resp: 2855

Ion Ratio Lower Upper

92 100

91 165.1 134.5 201.7



#54

cis-1,3-Dichloropropene

Concen: 6.596 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

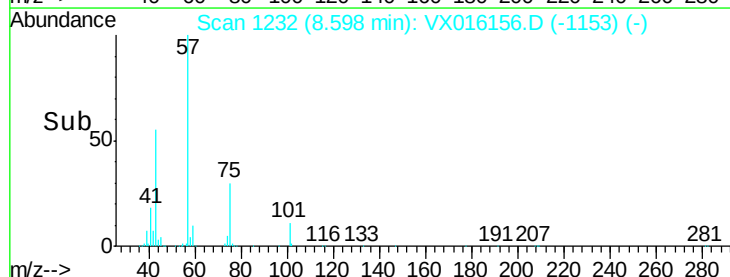
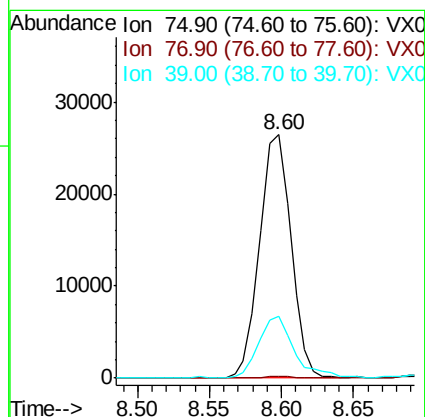
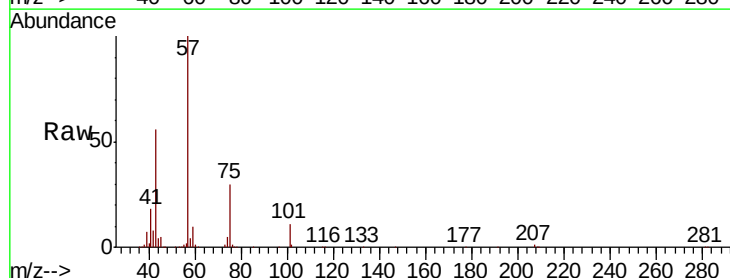
Tgt Ion: 75 Resp: 40120

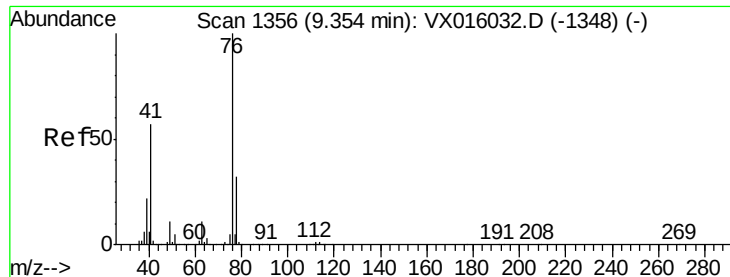
Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

39 24.9 38.7 58.1#

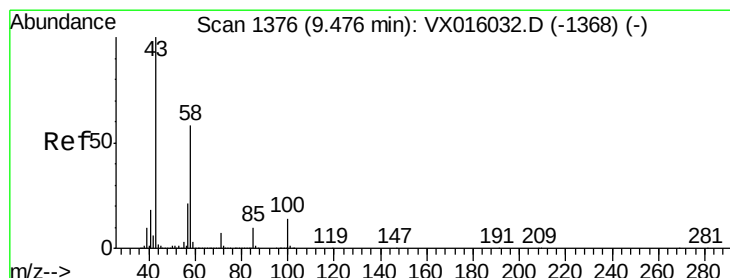
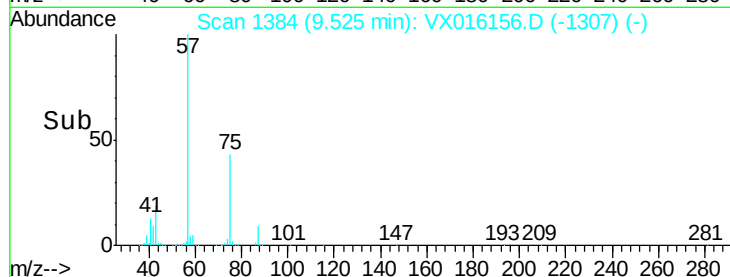
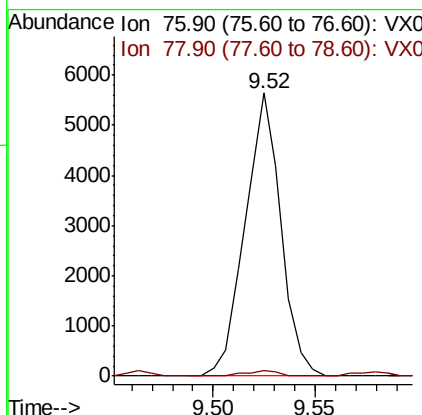
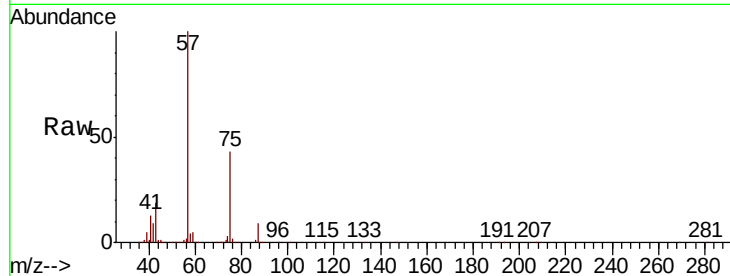




#57
 1,3-Dichloropropane
 Concen: 1.146 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX016156.D
 Acq: 11 May 2020 17:58

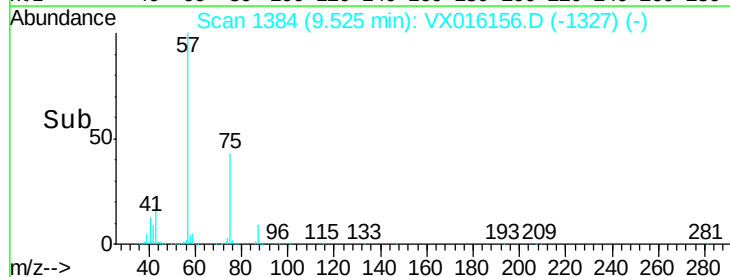
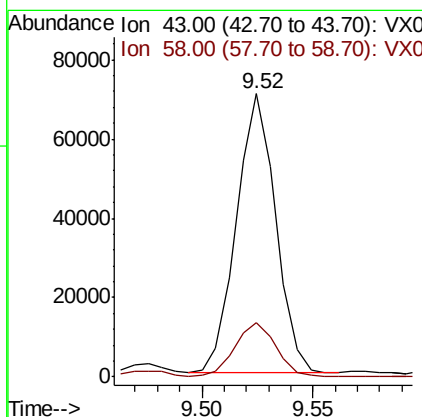
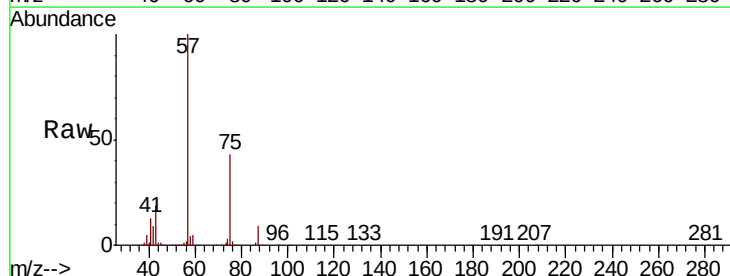
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#06

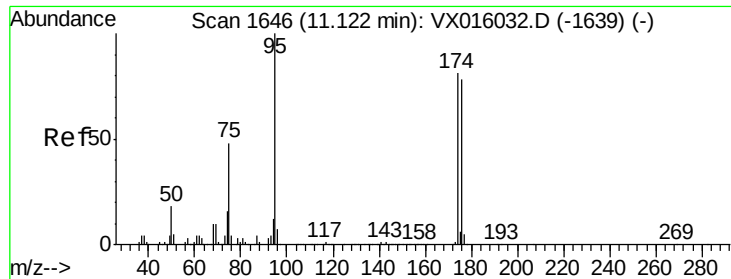
Tot Ion: 76 Resp: 6836
 Ion Ratio Lower Upper
 76 100
 78 1.6 25.9 38.9#



#59
 2-Hexanone
 Concen: 20.391 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX016156.D
 Acq: 11 May 2020 17:58

Tgt Ion: 43 Resp: 86369
 Ion Ratio Lower Upper
 43 100
 58 20.6 28.6 85.9#





#62

4-Bromofluorobenzene

Concen: 53.432 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#06

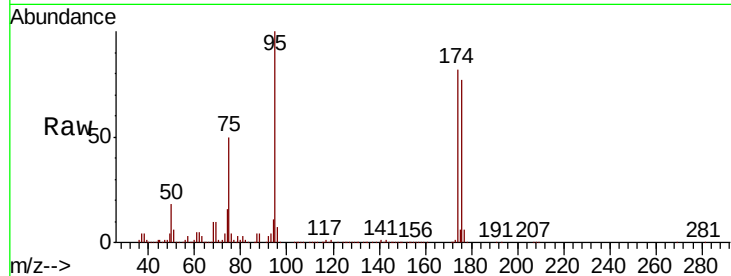
Tot Ion: 95 Resp: 240198

Ion Ratio Lower Upper

95 100

174 82.6 0.0 159.4

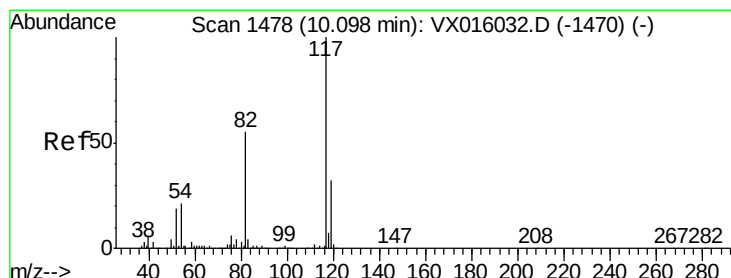
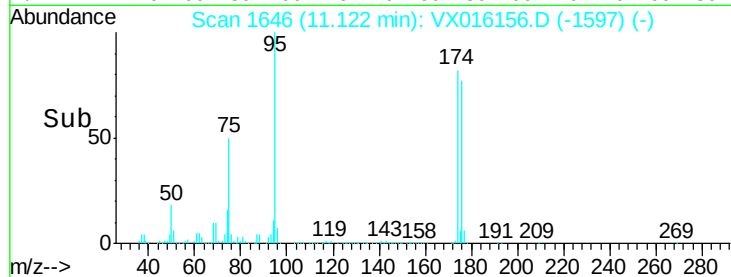
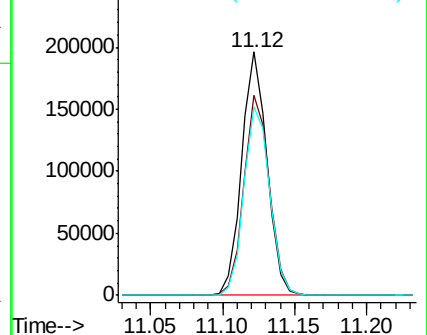
176 79.0 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

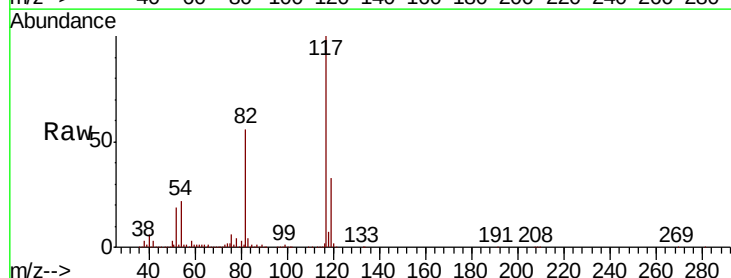
Tgt Ion: 117 Resp: 469133

Ion Ratio Lower Upper

117 100

82 56.1 44.4 66.6

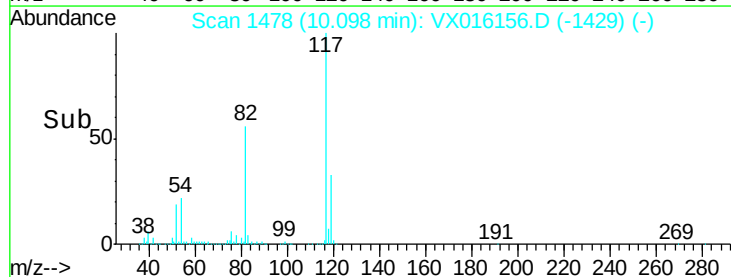
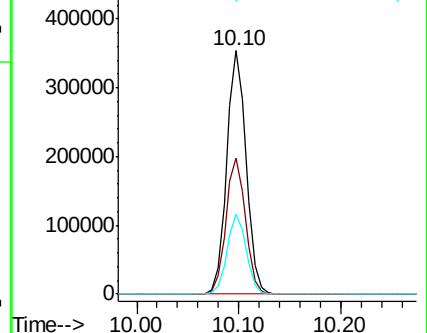
119 32.6 25.5 38.3

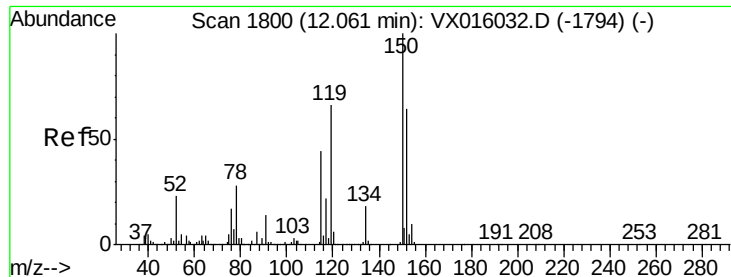


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#06

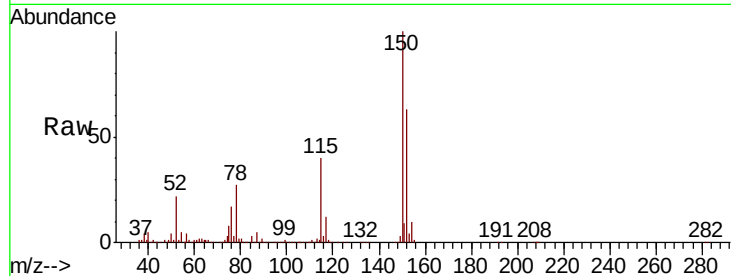
Tot Ion:152 Resp: 244997

Ion Ratio Lower Upper

152 100

115 59.4 41.3 124.1

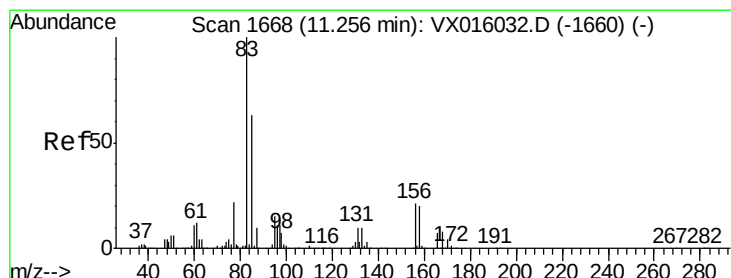
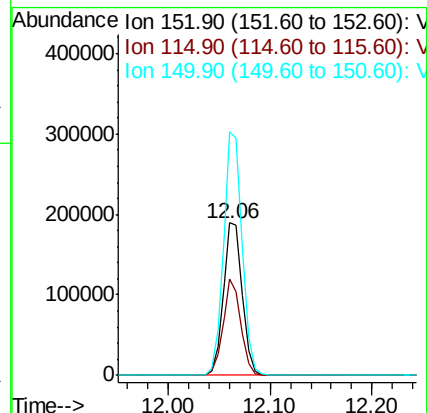
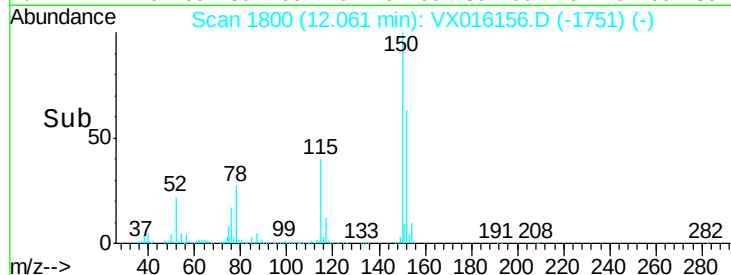
150 157.8 0.0 352.2



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: 2.089 ug/l

RT: 11.31 min Scan# 1677

Delta R.T. 0.05 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

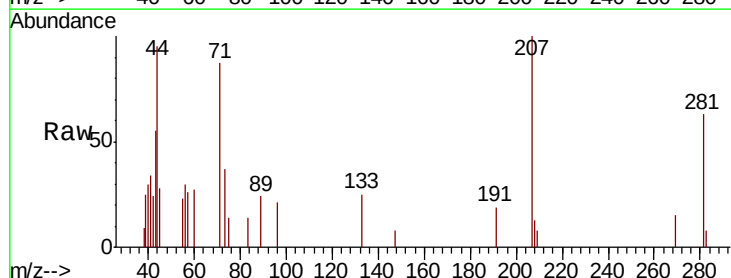
Tgt Ion: 83 Resp: 132

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

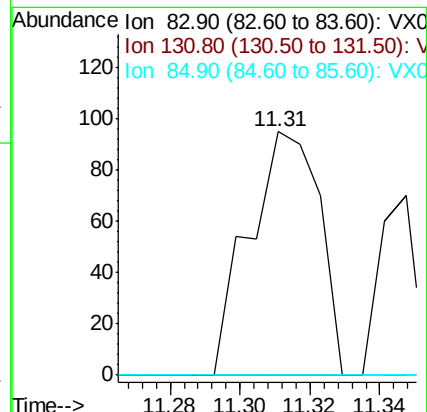
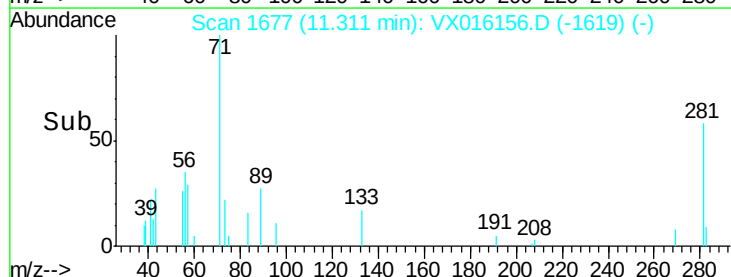
85 0.0 32.0 96.0#

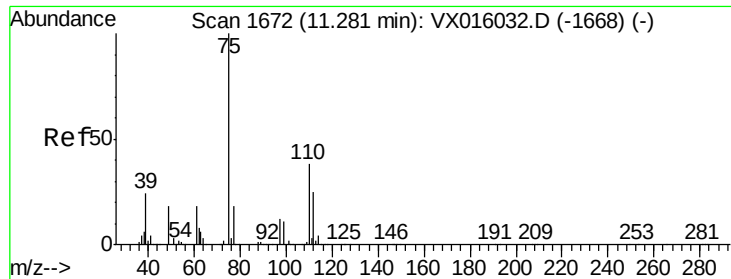


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.664 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016156.D

Acq: 11 May 2020 17:58

Instrument :

MSVOA_X

ClientSampleId :

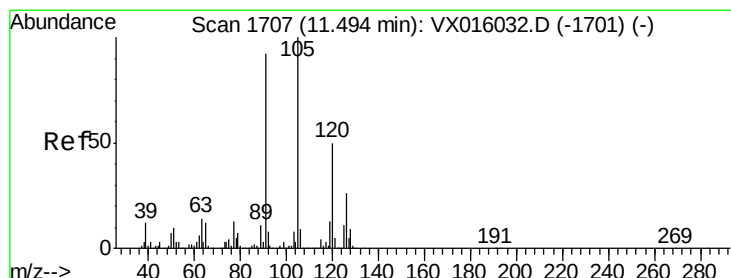
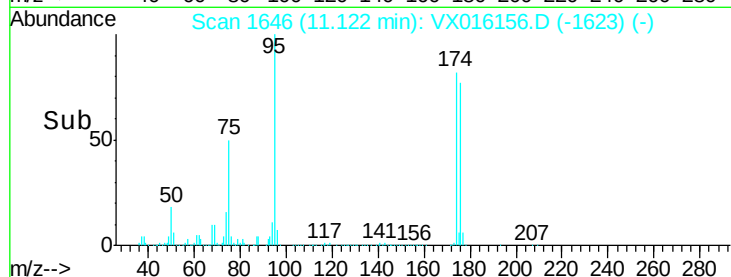
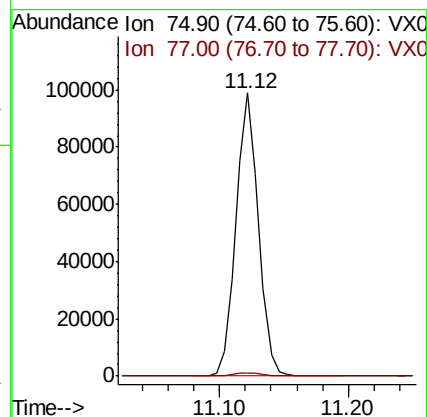
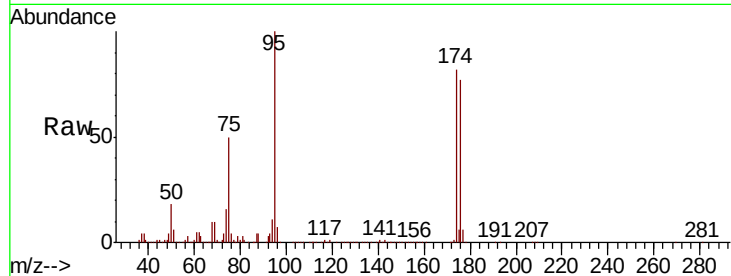
PB128761ZHE#06

Tot Ion: 75 Resp: 120443

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#80

1,3,5-Trimethylbenzene

Concen: 0.372 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016156.D

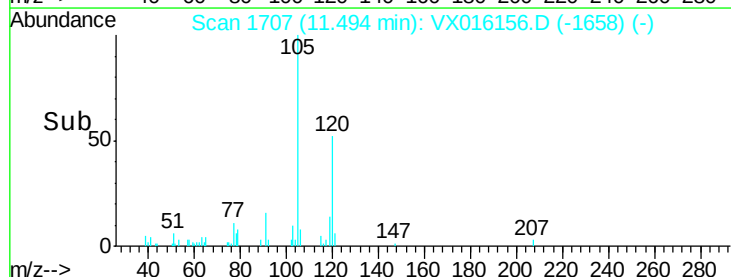
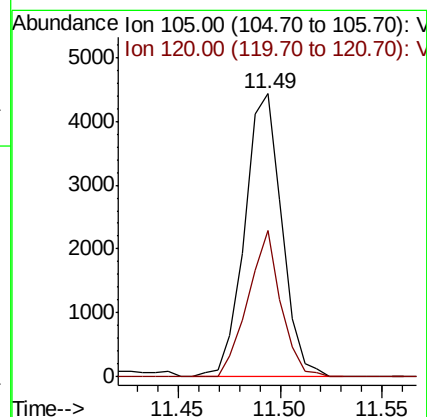
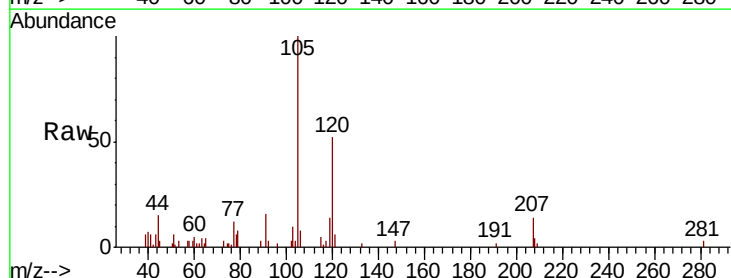
Acq: 11 May 2020 17:58

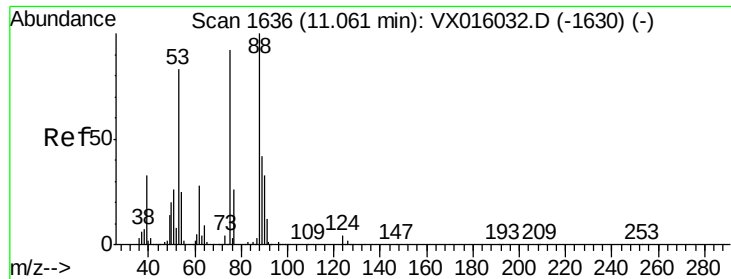
Tgt Ion: 105 Resp: 5594

Ion Ratio Lower Upper

105 100

120 45.8 24.6 74.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 51.627 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016156.D
 Acq: 11 May 2020 17:58

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#06

Tot Ion: 75 Resp: 120443
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.1 109.7#
 89 0.0 36.7 55.1#

