

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016255.D
 Acq On : 15 May 2020 01:27
 Operator : JC/SP
 Sample : PB128866ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#03

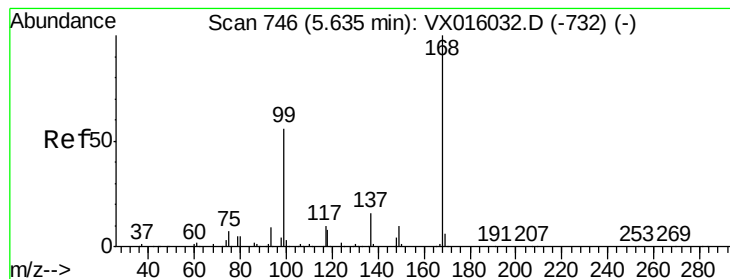
Quant Time: May 15 04:19:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	253669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	425250	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	414970	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	216470	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	154542	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
35) Dibromofluoromethane	5.47	113	126092	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	8.70	98	529453	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	11.12	95	212287	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	364	0.22	ug/l #	30
11) Tert butyl alcohol	3.00	59	2197	2.60	ug/l	99
13) Acrolein	2.27	56	420	0.80	ug/l #	53
16) Acetone	2.42	43	14446	9.70	ug/l	99
18) Methyl Acetate	2.76	43	2968	0.81	ug/l	98
20) Methylene Chloride	2.84	84	9443	3.08	ug/l	92
25) 2-Butanone	4.64	43	11208	4.67	ug/l	94
29) Tetrahydrofuran	5.10	42	1257	0.79	ug/l #	78
36) 1,1-Dichloropropene	5.63	75	18499	4.42	ug/l #	49
37) Ethyl Acetate	4.64	43	11208	2.31	ug/l #	67
38) Carbon Tetrachloride	5.64	117	25086	5.90	ug/l #	13
43) Isopropyl Acetate	6.42	43	74536	9.63	ug/l	99
48) Methyl methacrylate	7.65	41	4697	1.28	ug/l #	14
49) 1,4-Dioxane	7.86	88	228	2.59	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	69067	14.58	ug/l #	51
52) Toluene	8.76	92	1593	0.21	ug/l	84
54) cis-1,3-Dichloropropene	8.59	75	34620	6.48	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	6099	1.16	ug/l #	45
59) 2-Hexanone	9.52	43	72088	19.38	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	11.32	83	55	2.07	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	104285	21.23	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3326	0.25	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	104285	50.59	ug/l #	13
94) Hexachlorobutadiene	13.77	225	346	0.68	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

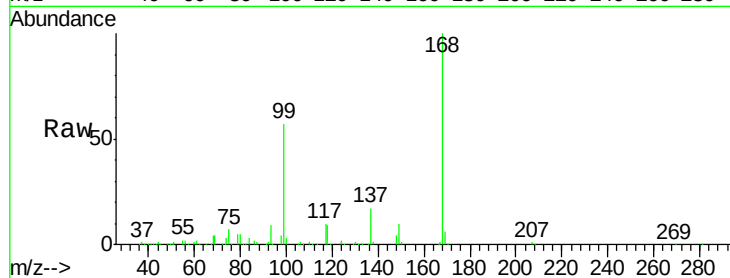
PB128866ZHE#03

Tgt Ion:168 Resp: 253669

Ion Ratio Lower Upper

168 100

99 57.1 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

80000

60000

40000

20000

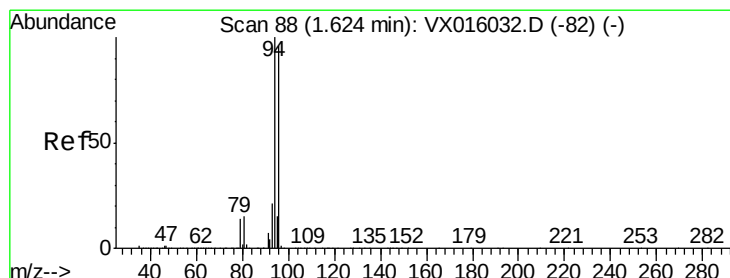
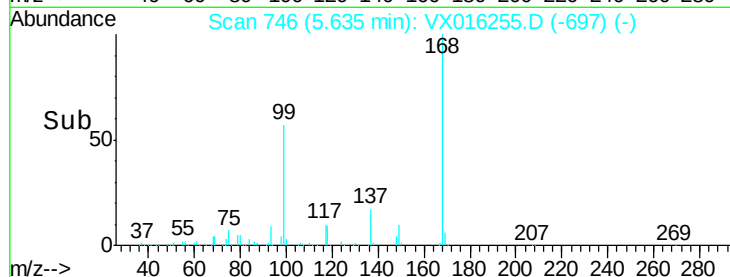
0

5.50

5.60

5.70

Time-->



#5

Bromomethane

Concen: 0.22 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016255.D

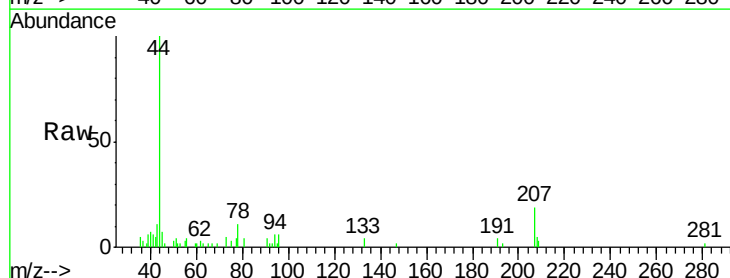
Acq: 15 May 2020 01:27

Tgt Ion: 94 Resp: 364

Ion Ratio Lower Upper

94 100

96 27.2 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

100

50

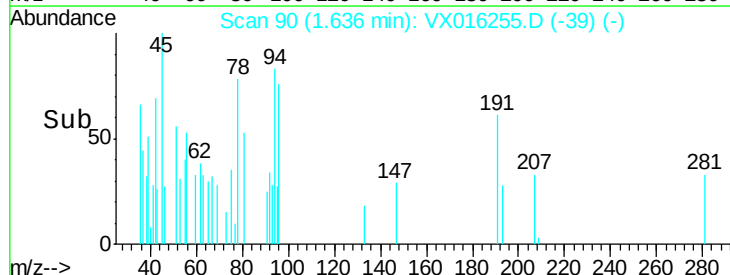
0

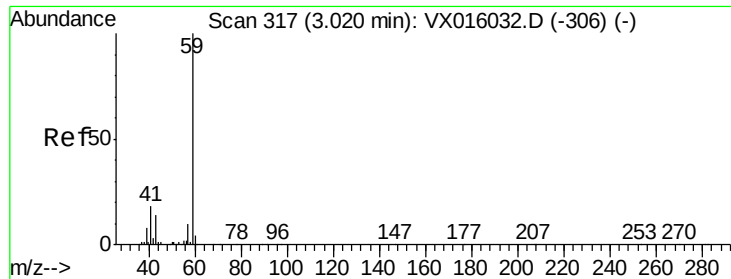
1.60

1.65

1.70

Time-->



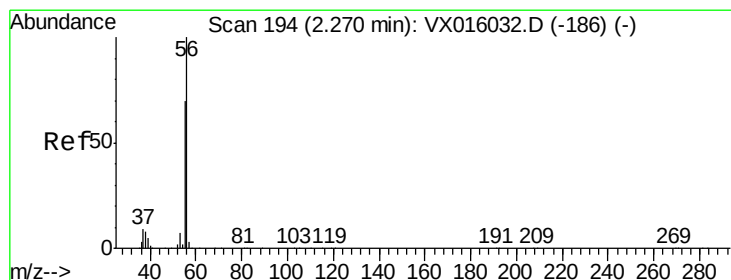
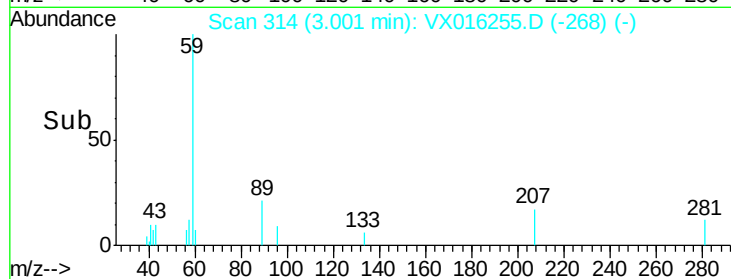
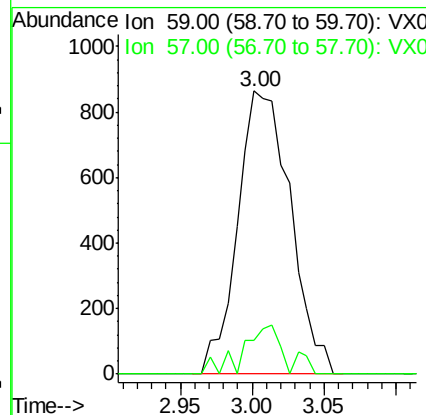
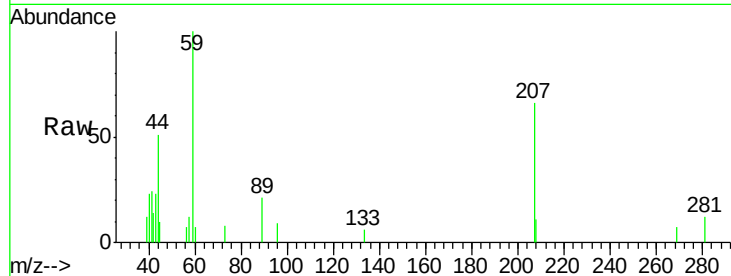


#11

Tert butyl alcohol
 Concen: 2.60 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.02 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#03

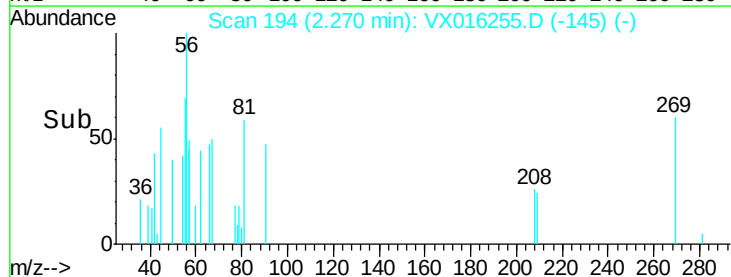
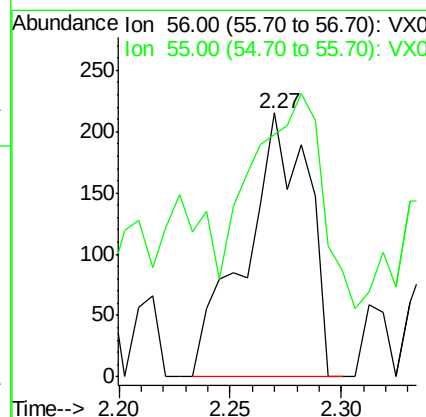
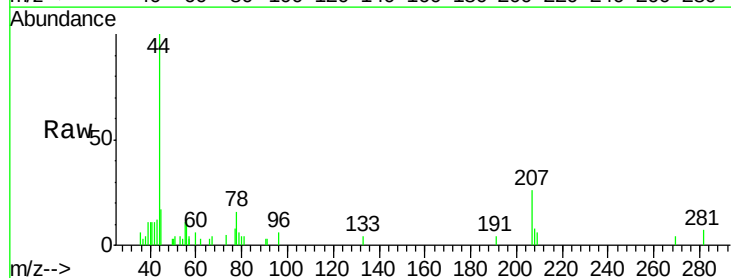
Tgt Ion: 59 Resp: 2197
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.2 12.4

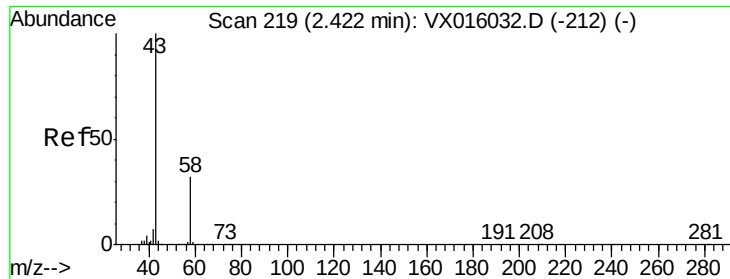


#13

Acrolein
 Concen: 0.80 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.00 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

Tgt Ion: 56 Resp: 420
 Ion Ratio Lower Upper
 56 100
 55 109.5 56.5 84.7#





#16

Acetone

Concen: 9.70 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

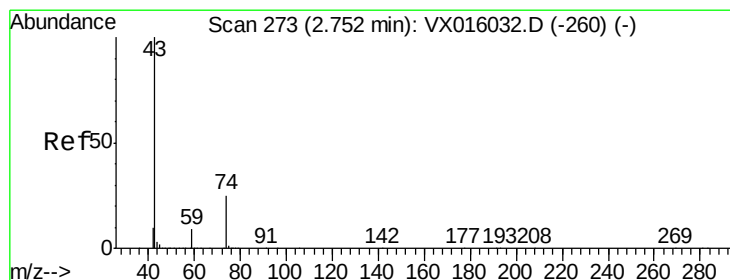
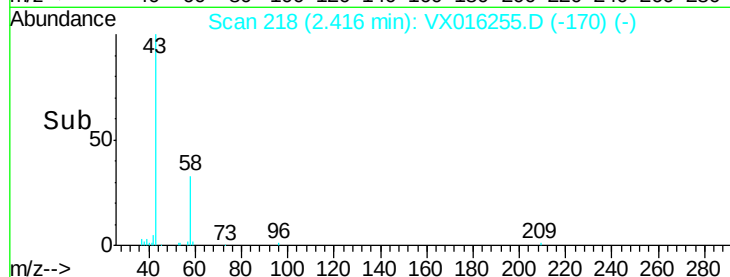
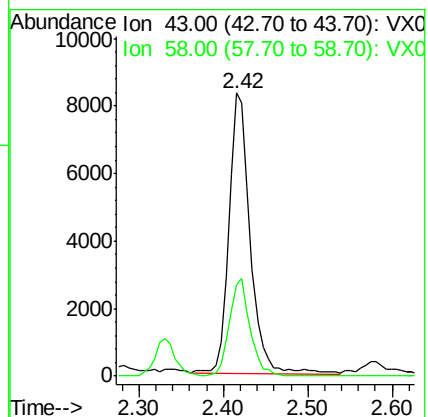
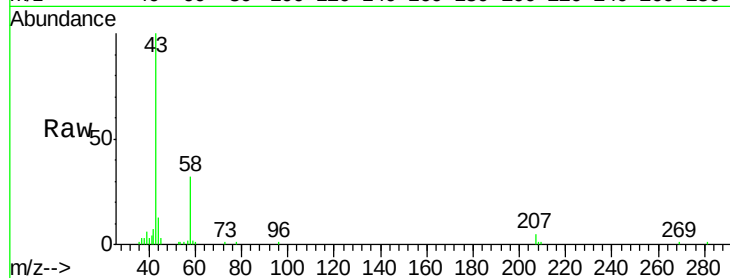
PB128866ZHE#03

Tgt Ion: 43 Resp: 14446

Ion Ratio Lower Upper

43 100

58 32.5 25.4 38.0



#18

Methyl Acetate

Concen: 0.81 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX016255.D

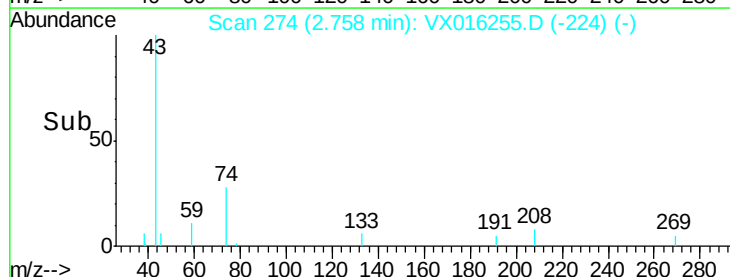
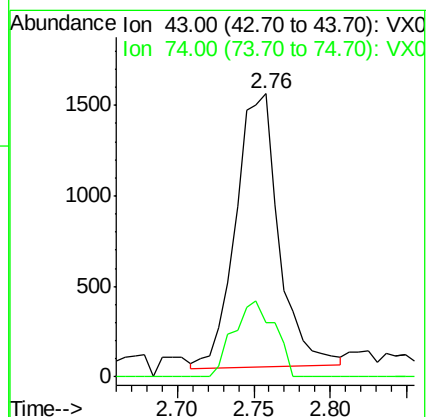
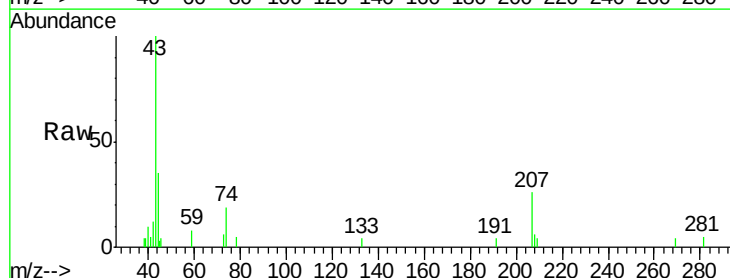
Acq: 15 May 2020 01:27

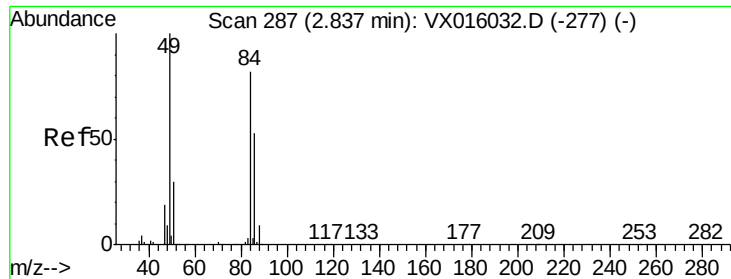
Tgt Ion: 43 Resp: 2968

Ion Ratio Lower Upper

43 100

74 26.3 20.2 30.2

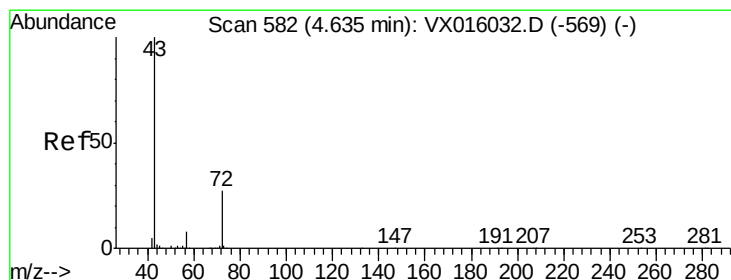
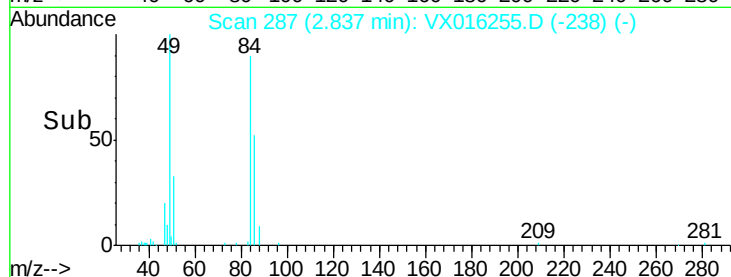
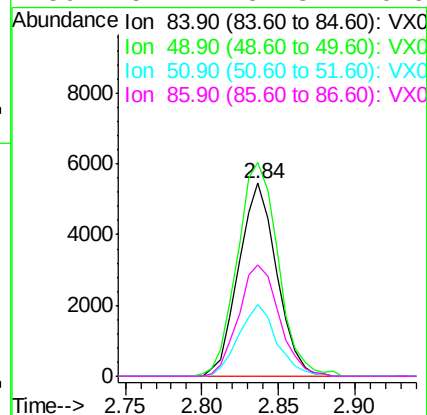
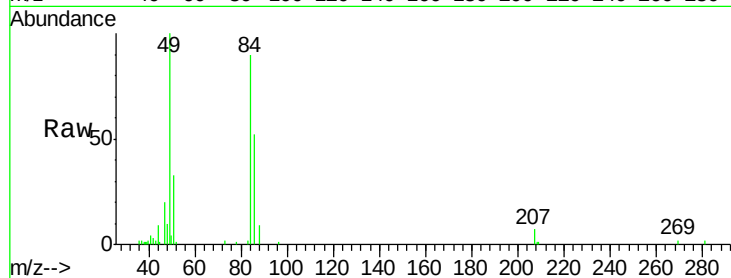




#20
Methylene Chloride
Concen: 3.08 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

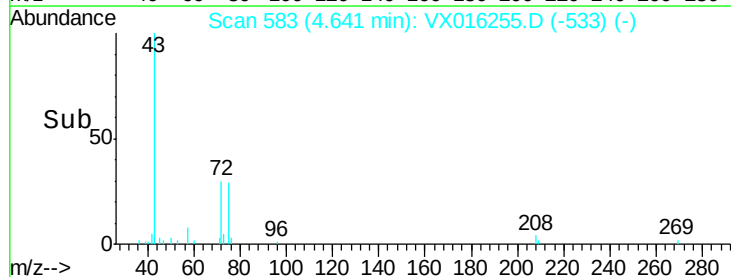
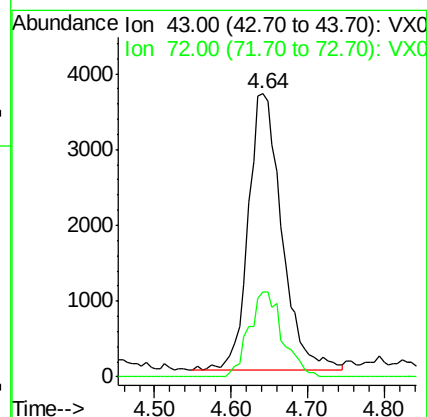
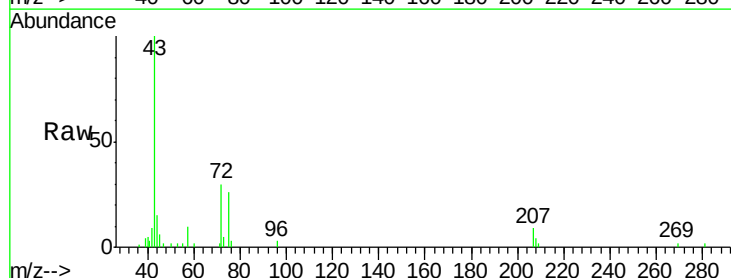
Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#03

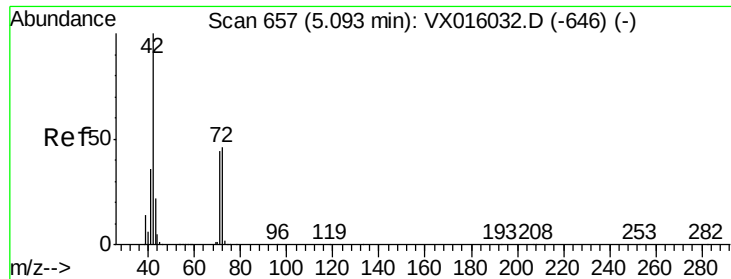
Tgt Ion:	84	Resp:	9443
Ion	Ratio	Lower	Upper
84	100		
49	110.6	97.3	145.9
51	36.9	29.3	43.9
86	57.4	51.3	76.9



#25
2-Butanone
Concen: 4.67 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

Tgt Ion:	43	Resp:	11208
Ion	Ratio	Lower	Upper
43	100		
72	30.7	21.8	32.8





#29

Tetrahydrofuran

Concen: 0.79 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

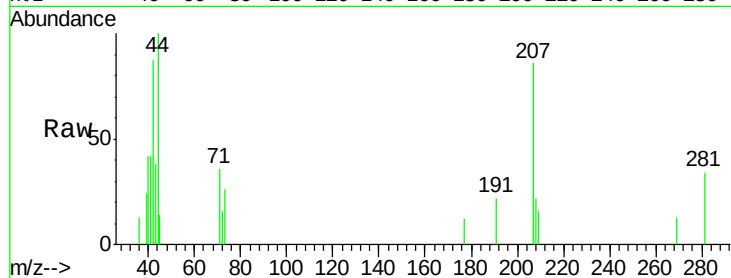
Tgt Ion: 42 Resp: 1257

Ion Ratio Lower Upper

42 100

72 32.2 37.1 55.7#

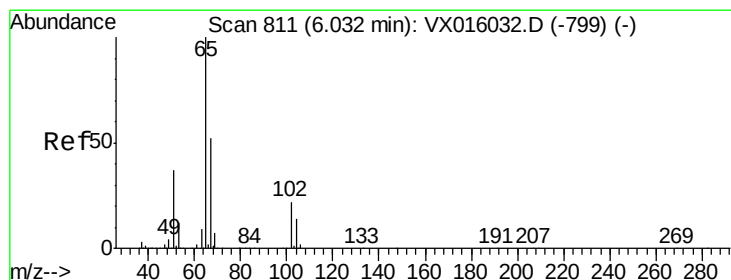
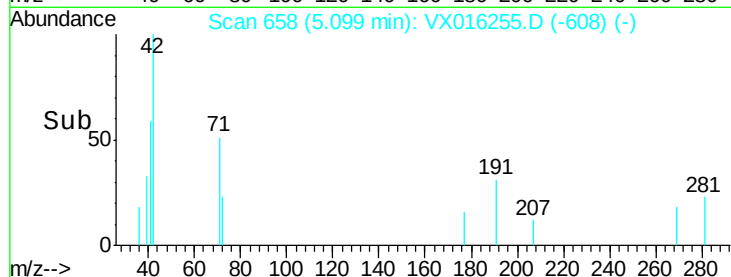
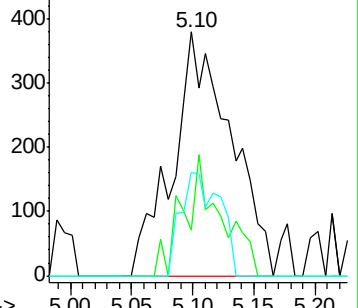
71 27.9 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.30 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016255.D

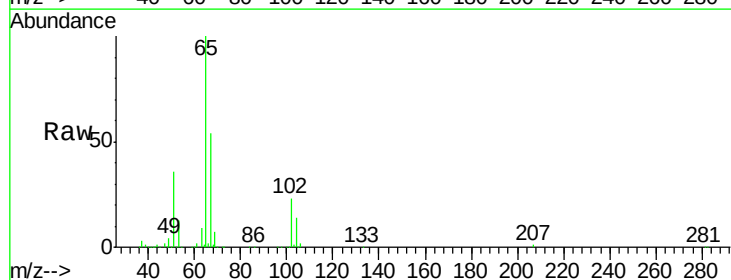
Acq: 15 May 2020 01:27

Tgt Ion: 65 Resp: 154542

Ion Ratio Lower Upper

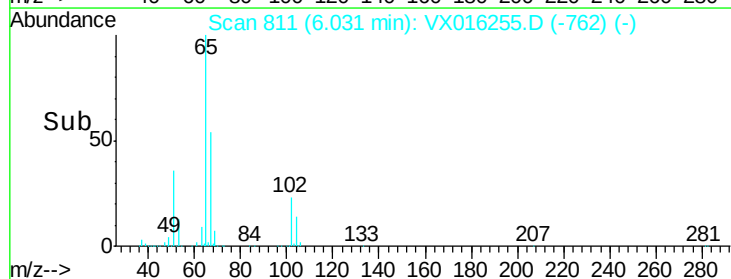
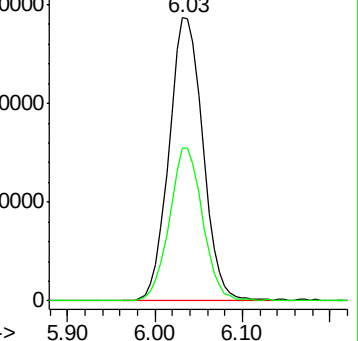
65 100

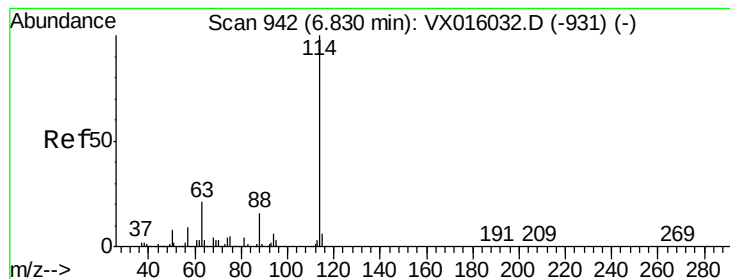
67 53.2 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

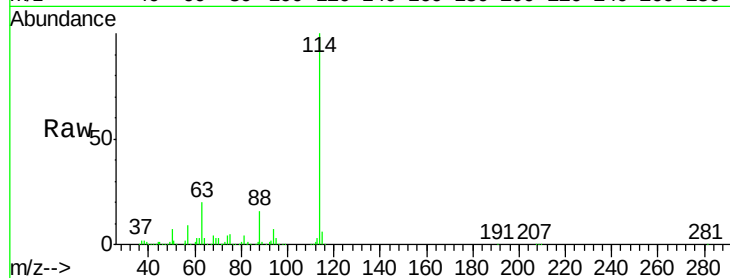
Tgt Ion:114 Resp: 425250

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.8

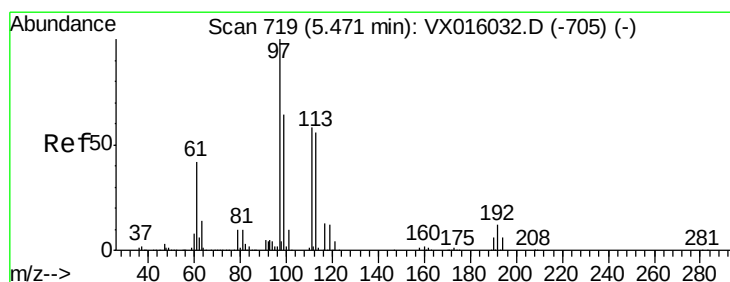
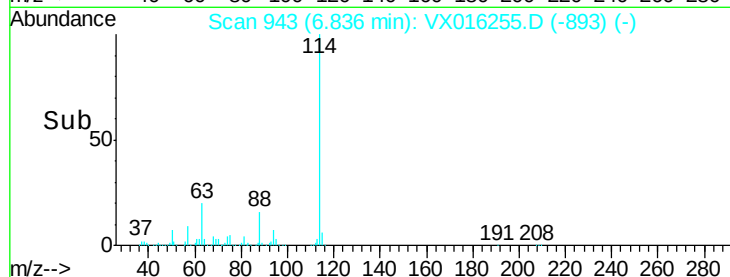
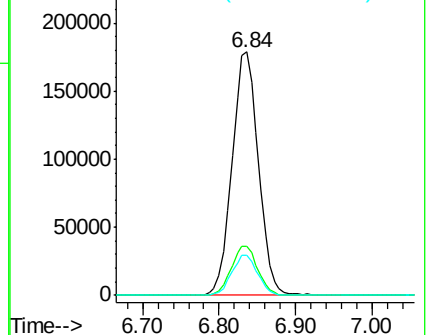
88 16.4 0.0 31.4



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: 46.80 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

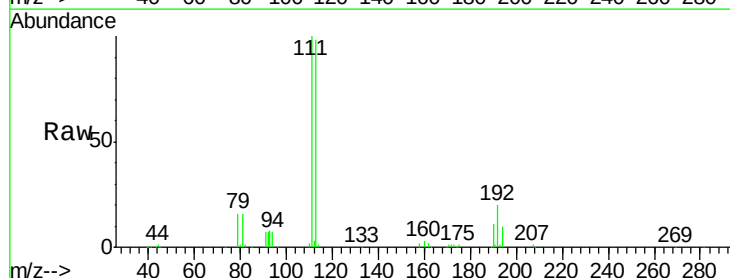
Tgt Ion:113 Resp: 126092

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

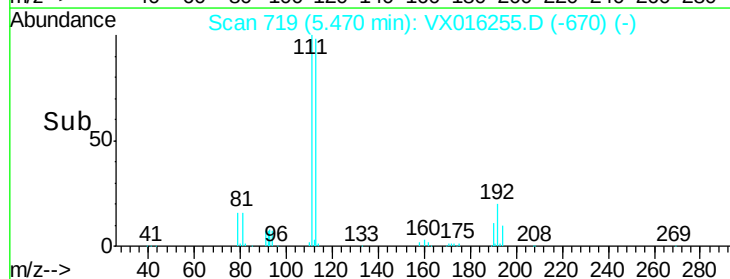
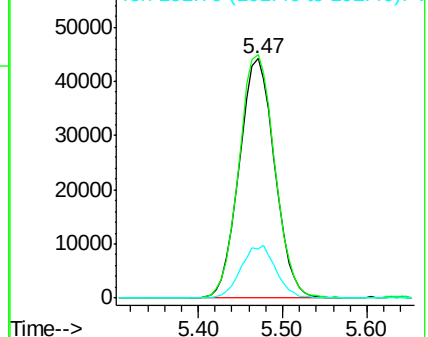
192 21.5 17.0 25.4

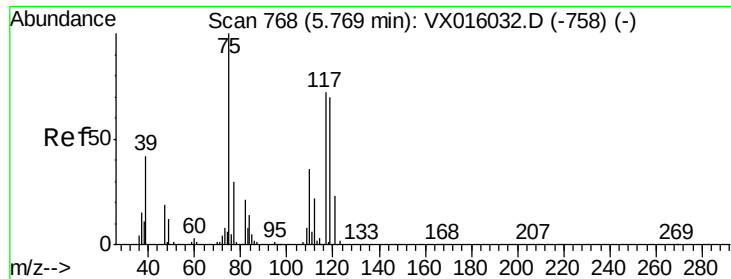


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.42 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

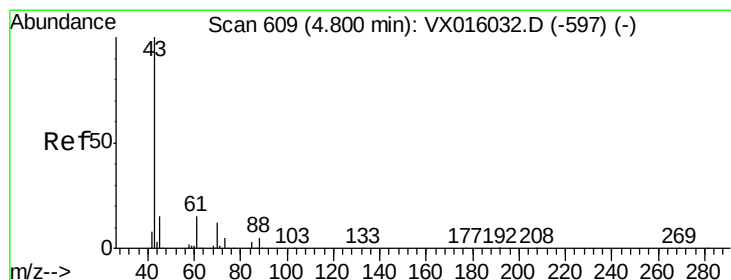
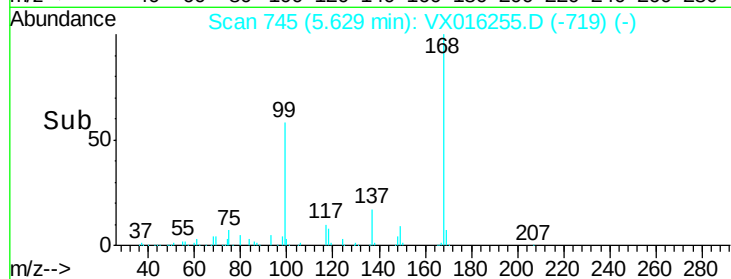
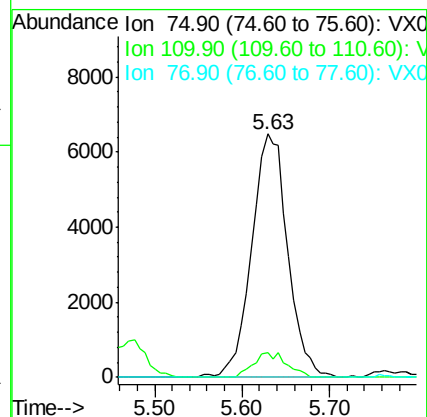
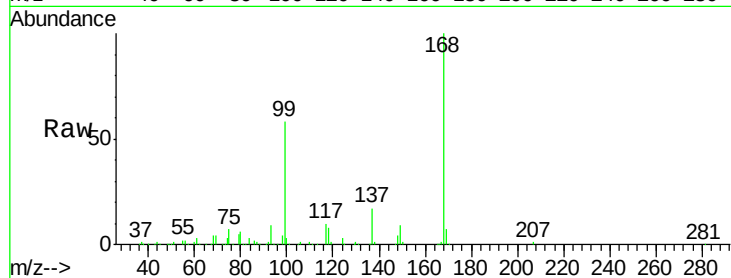
Tgt Ion: 75 Resp: 18499

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 2.31 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

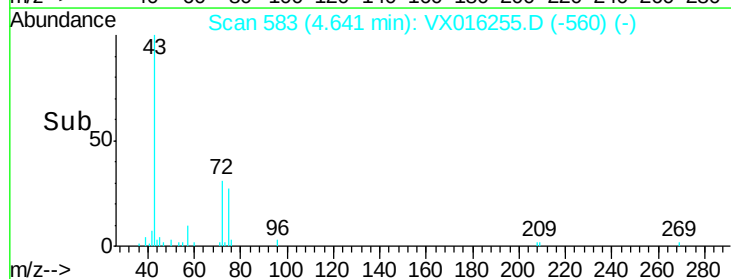
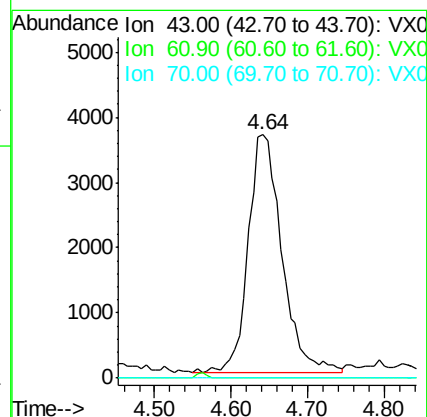
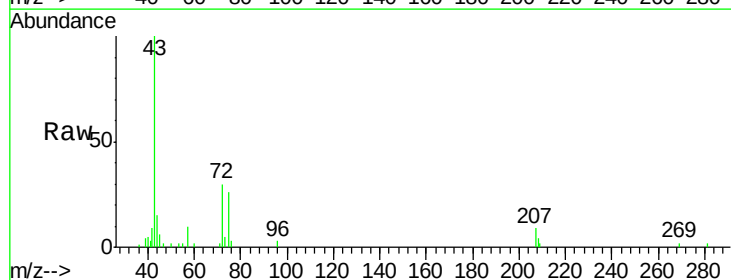
Tgt Ion: 43 Resp: 11208

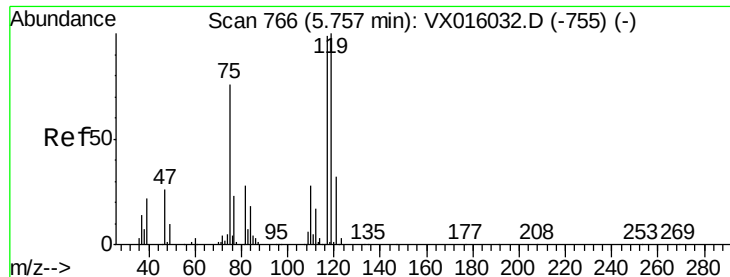
Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 5.90 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

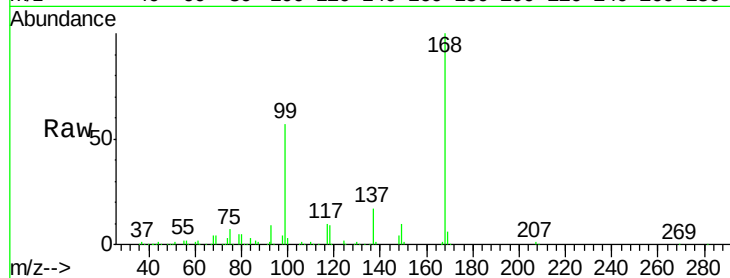
Tgt Ion:117 Resp: 25086

Ion Ratio Lower Upper

117 100

119 4.1 80.3 120.5#

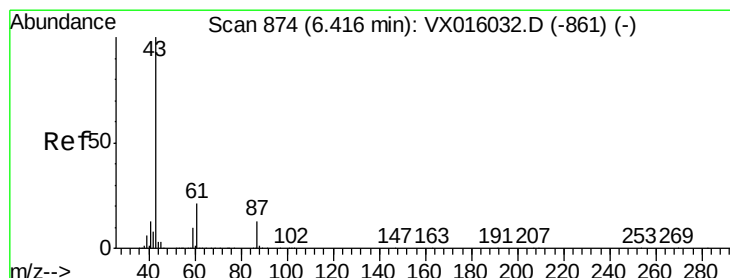
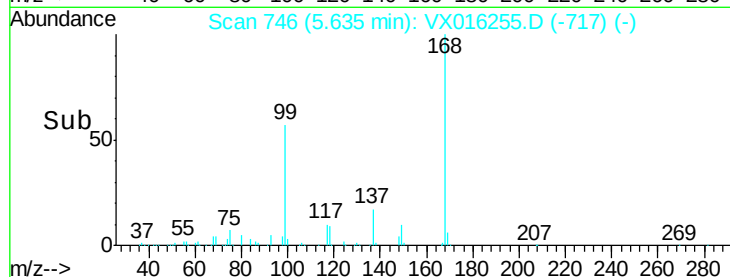
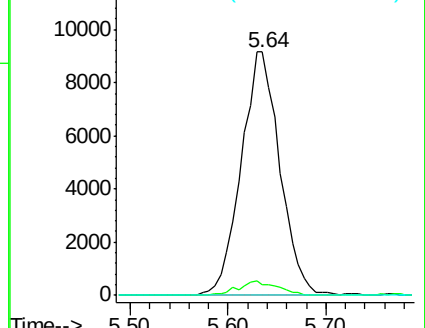
121 0.0 25.7 38.5#



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: 9.63 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

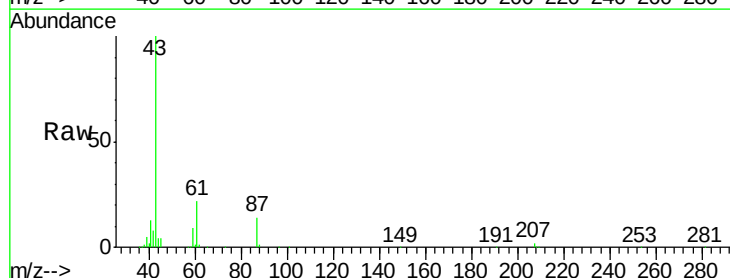
Tgt Ion: 43 Resp: 74536

Ion Ratio Lower Upper

43 100

61 21.9 17.0 25.4

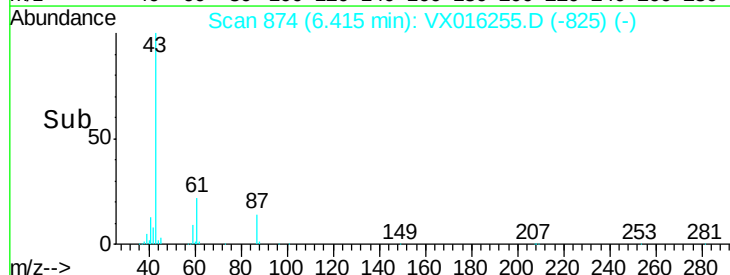
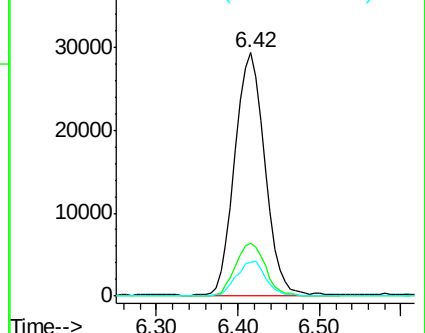
87 14.1 11.0 16.6

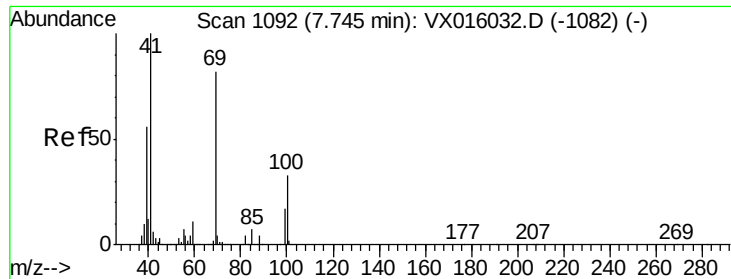


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

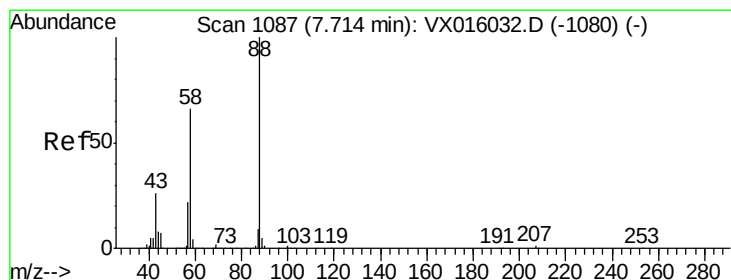
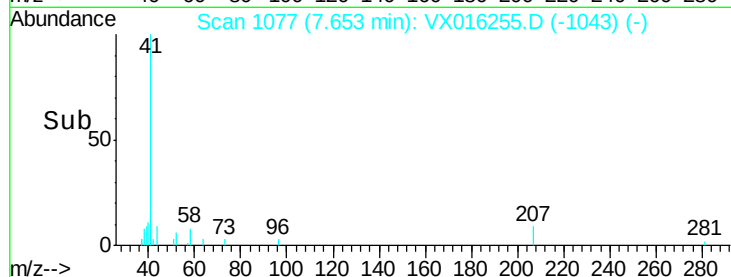
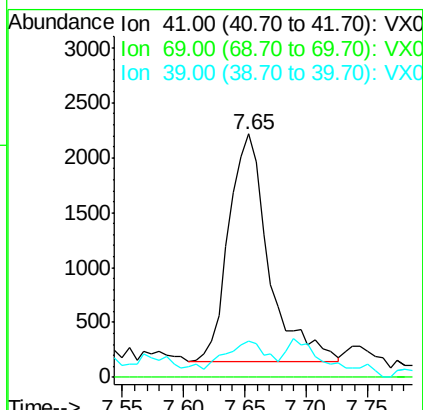
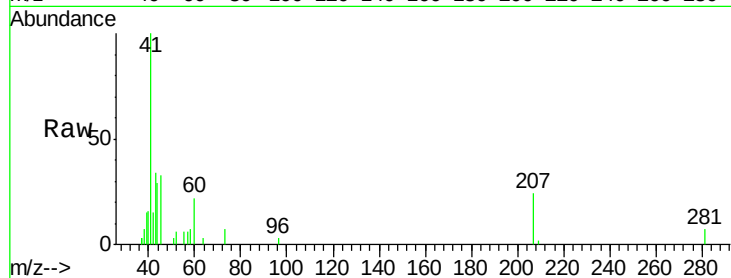




#48
Methyl methacrylate
Concen: 1.28 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

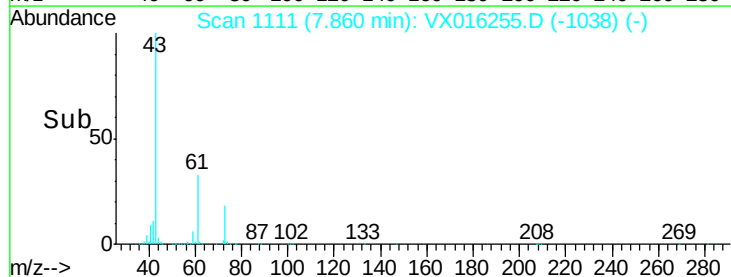
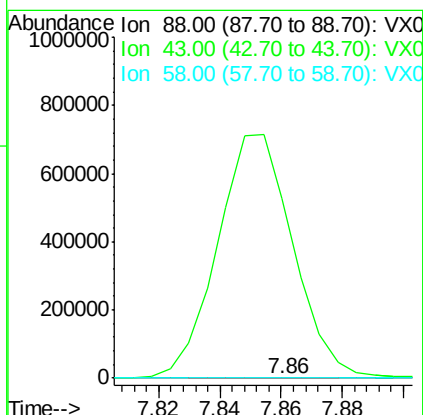
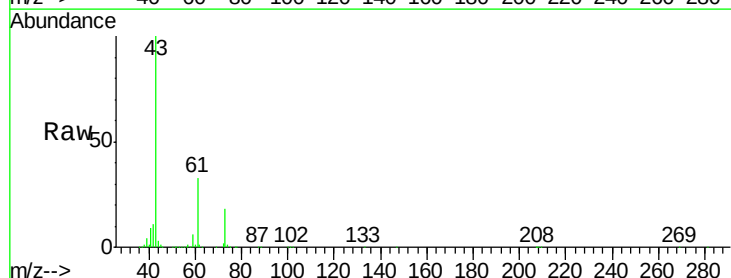
Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#03

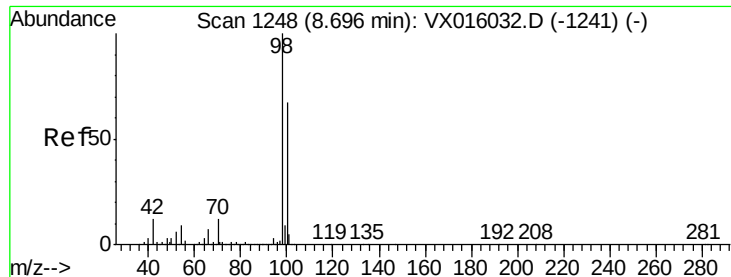
Tgt Ion: 41 Resp: 4697
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.59 ug/l
RT: 7.86 min Scan# 1111
Delta R.T. 0.15 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

Tgt Ion: 88 Resp: 228
Ion Ratio Lower Upper
88 100
43 542742.1 25.3 37.9#
58 2295.2 55.9 83.9#





#50

Toluene-d8

Concen: 51.00 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

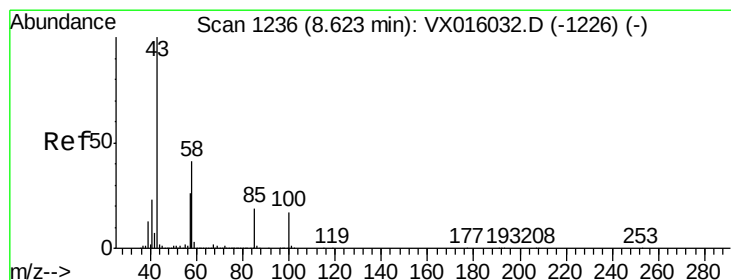
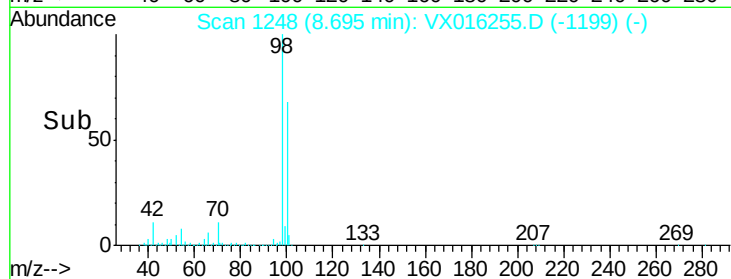
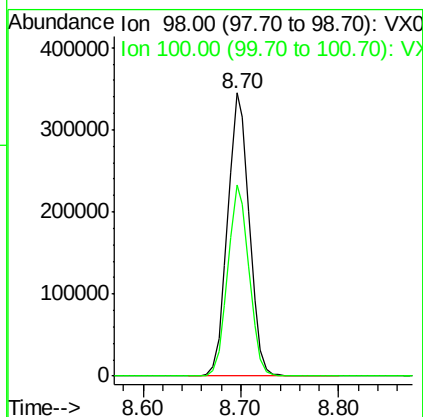
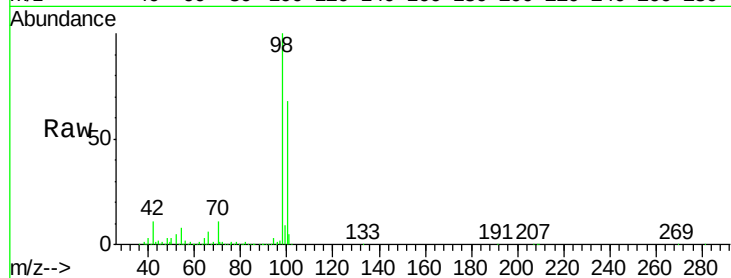
PB128866ZHE#03

Tgt Ion: 98 Resp: 529453

Ion Ratio Lower Upper

98 100

100 66.5 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 14.58 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016255.D

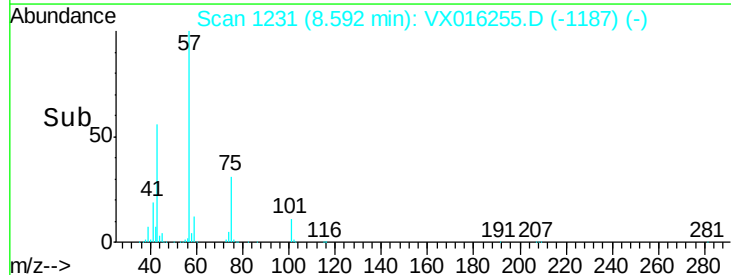
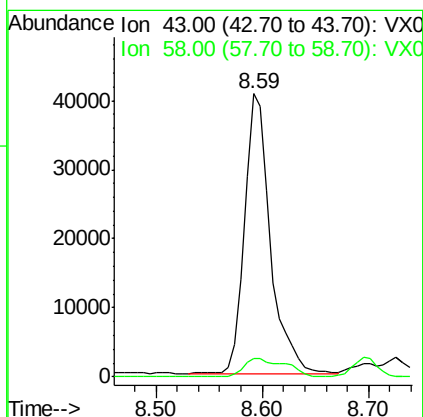
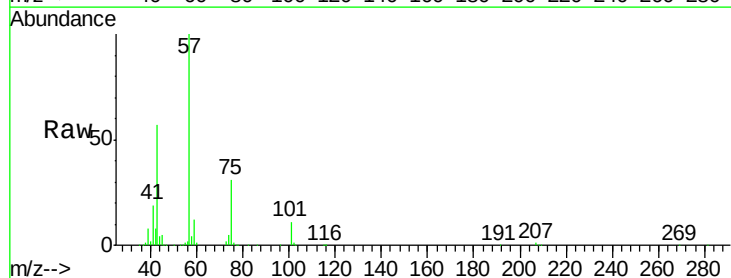
Acq: 15 May 2020 01:27

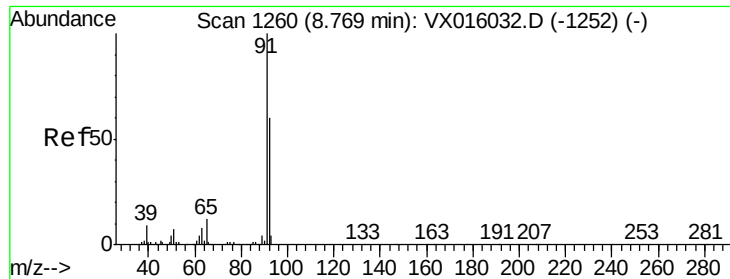
Tgt Ion: 43 Resp: 69067

Ion Ratio Lower Upper

43 100

58 10.8 33.0 49.4#





#52

Toluene

Concen: 0.21 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

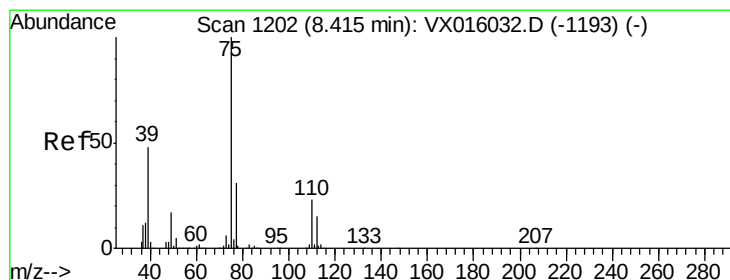
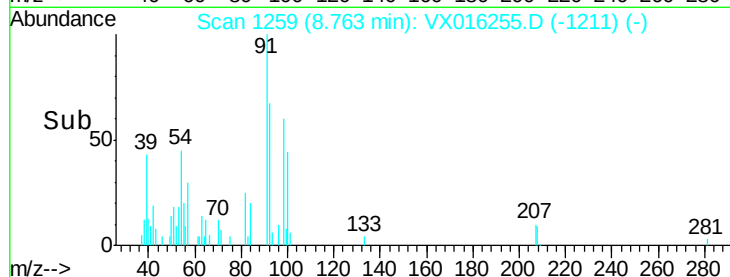
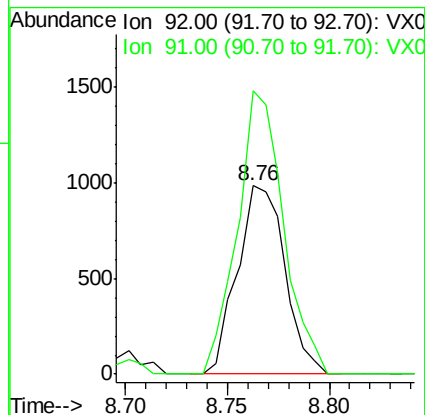
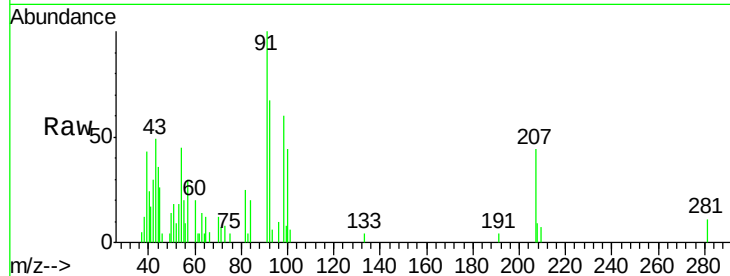
PB128866ZHE#03

Tgt Ion: 92 Resp: 1593

Ion Ratio Lower Upper

92 100

91 146.1 134.5 201.7



#54

cis-1,3-Dichloropropene

Concen: 6.48 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

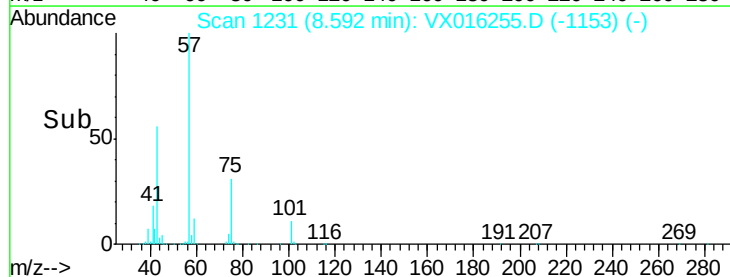
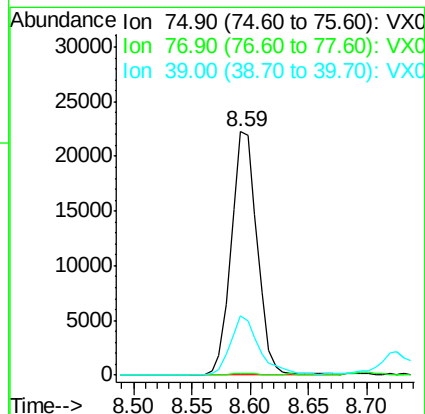
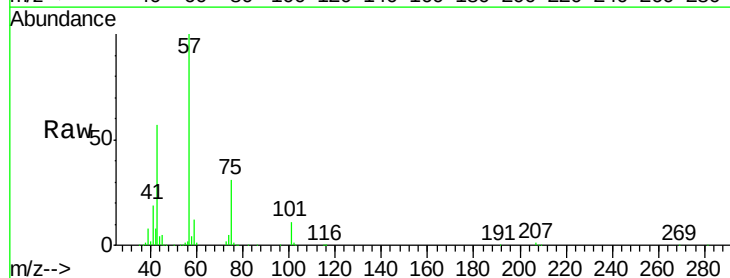
Tgt Ion: 75 Resp: 34620

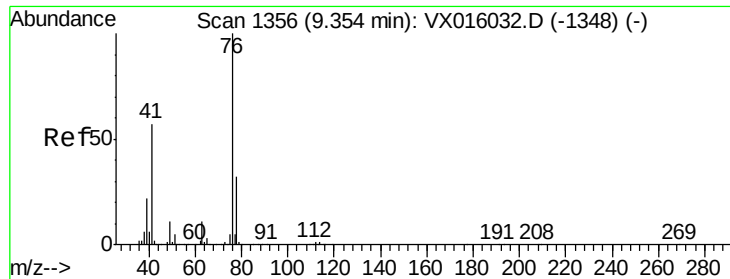
Ion Ratio Lower Upper

75 100

77 0.8 24.7 37.1#

39 23.9 38.7 58.1#

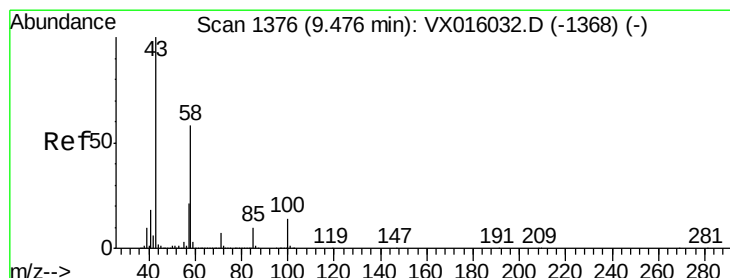
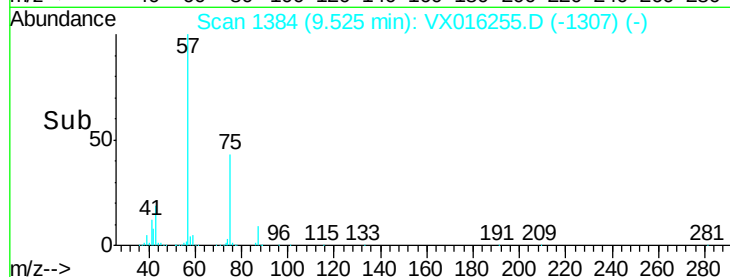
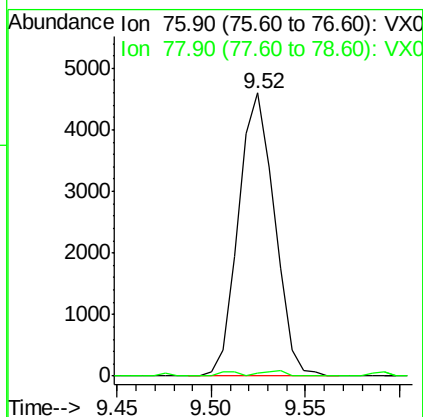
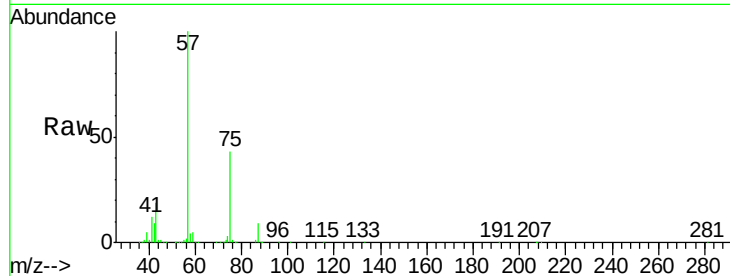




#57
 1,3-Dichloropropane
 Concen: 1.16 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

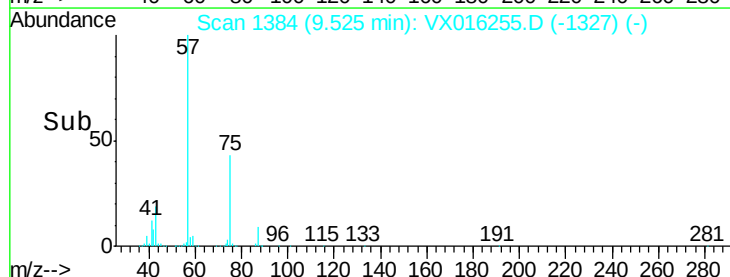
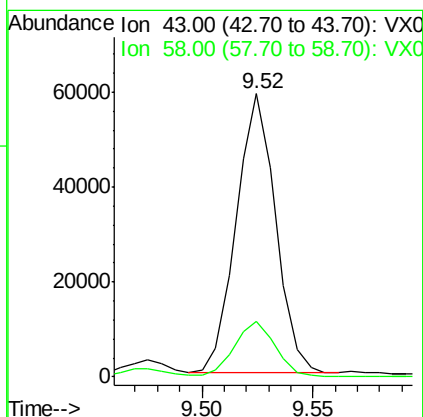
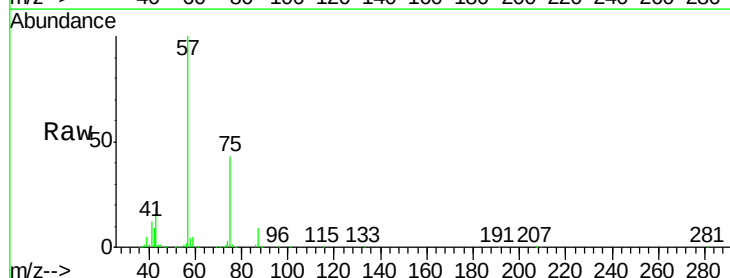
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#03

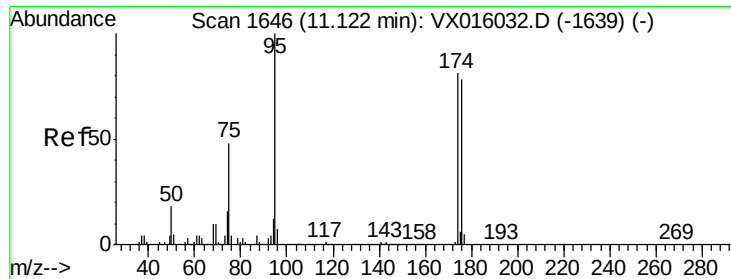
Tgt Ion: 76 Resp: 6099
 Ion Ratio Lower Upper
 76 100
 78 1.3 25.9 38.9#



#59
 2-Hexanone
 Concen: 19.38 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

Tgt Ion: 43 Resp: 72088
 Ion Ratio Lower Upper
 43 100
 58 21.3 28.6 85.9#

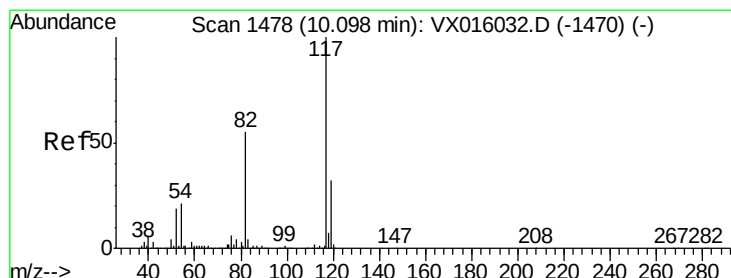
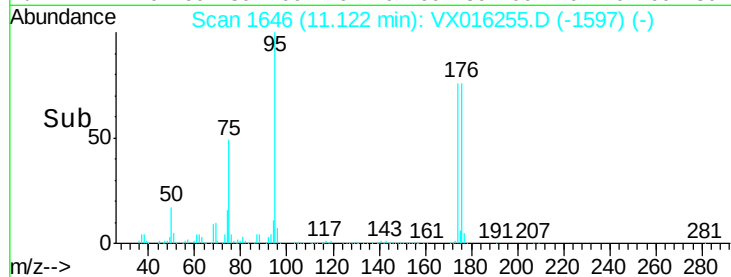
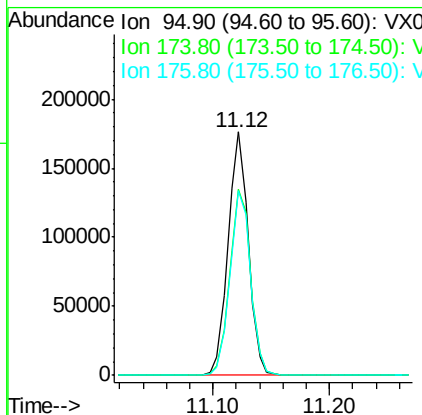
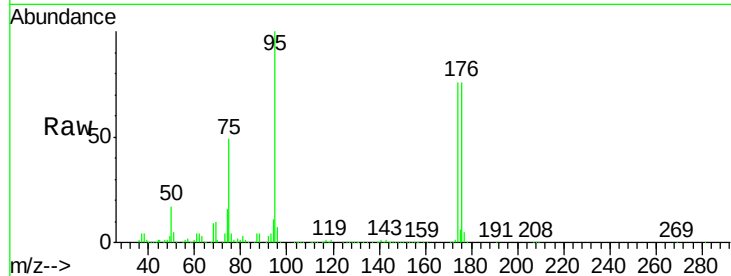




#62
4-Bromofluorobenzene
Concen: 53.77 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

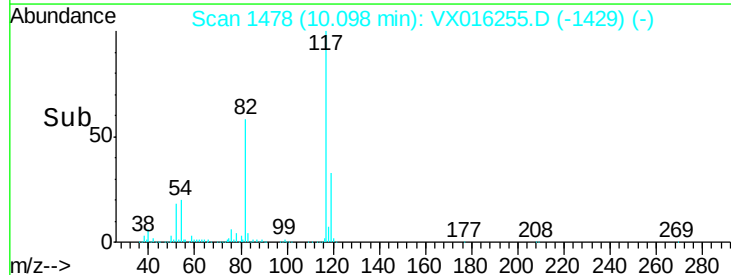
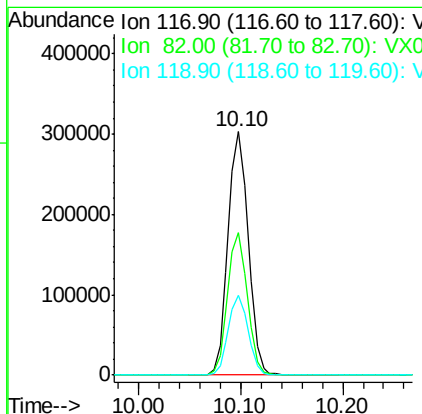
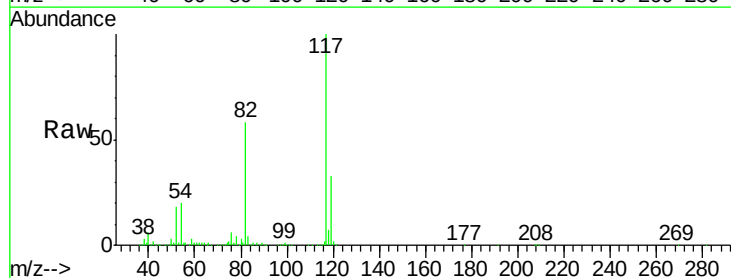
Instrument :
MSVOA_X
ClientSampleId :
PB128866ZHE#03

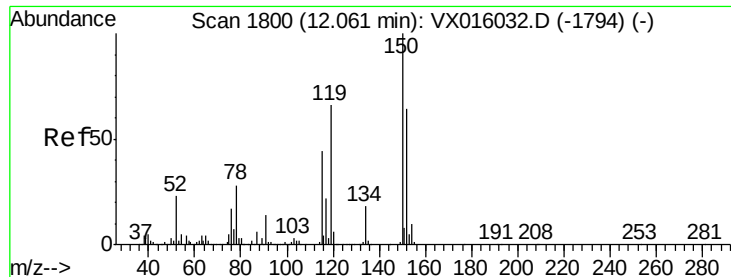
Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.1	0.0	159.4
176	77.7	0.0	157.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016255.D
Acq: 15 May 2020 01:27

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.3	44.4	66.6
119	32.7	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

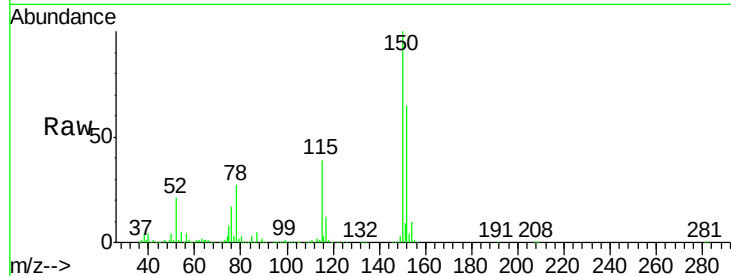
Tgt Ion:152 Resp: 216470

Ion Ratio Lower Upper

152 100

115 58.6 41.3 124.1

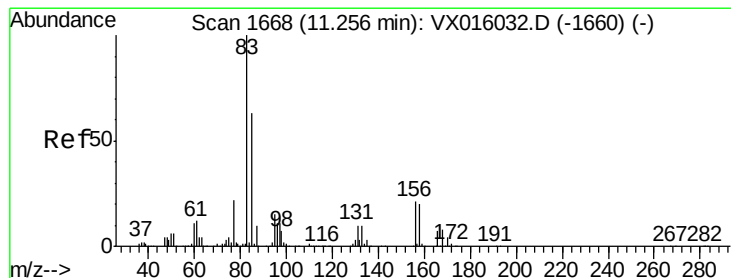
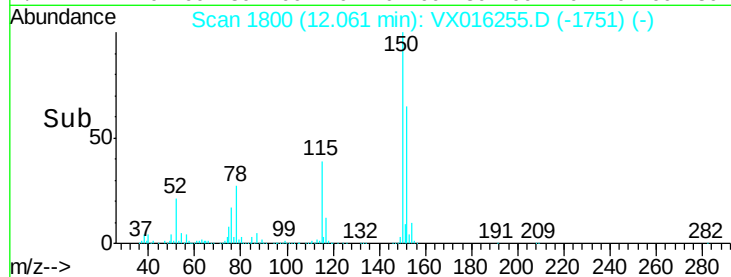
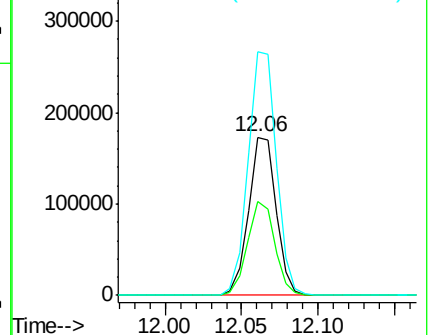
150 157.6 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.07 ug/l

RT: 11.32 min Scan# 1679

Delta R.T. 0.07 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

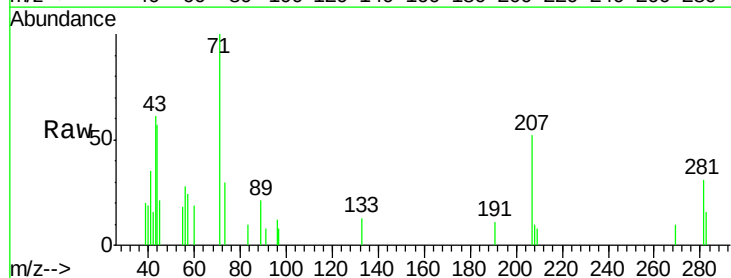
Tgt Ion: 83 Resp: 55

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

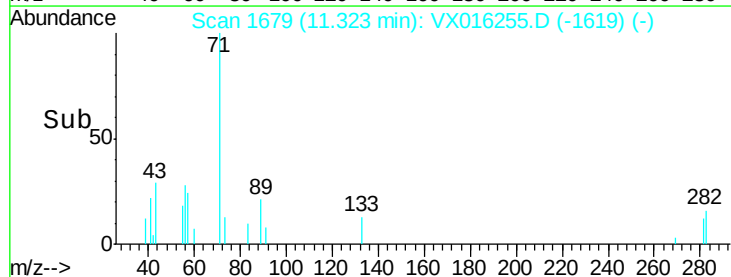
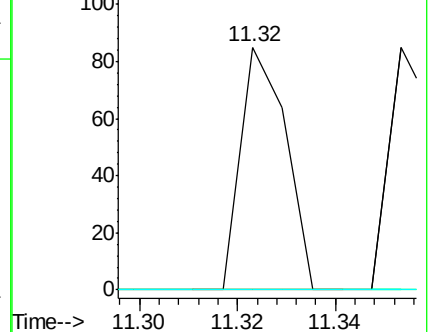
85 0.0 32.0 96.0#

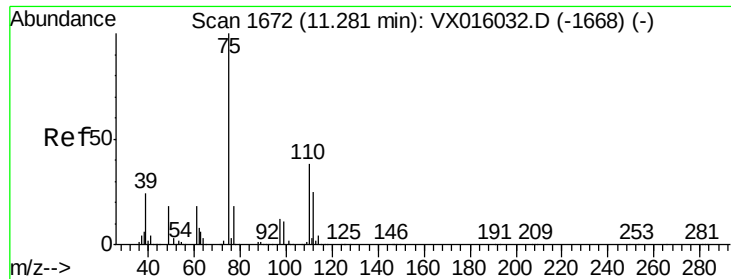


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

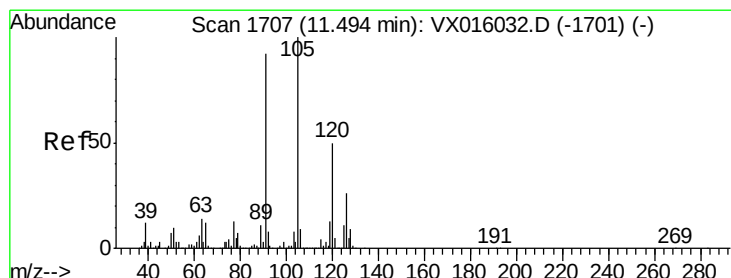
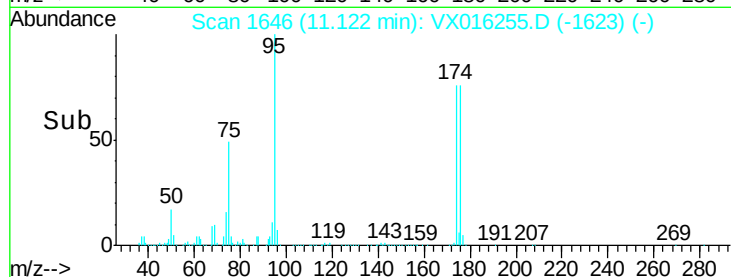
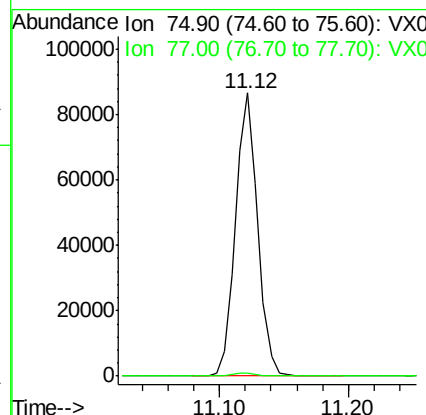
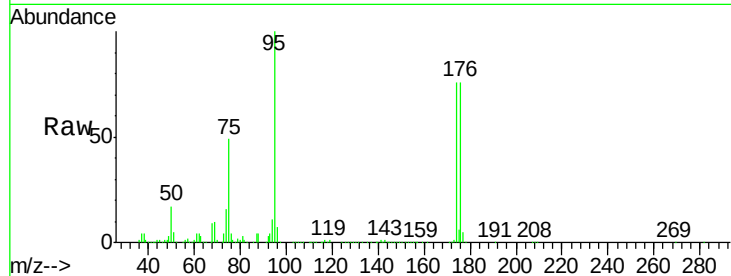




#76
 1,2,3-Trichloropropane
 Concen: 21.23 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

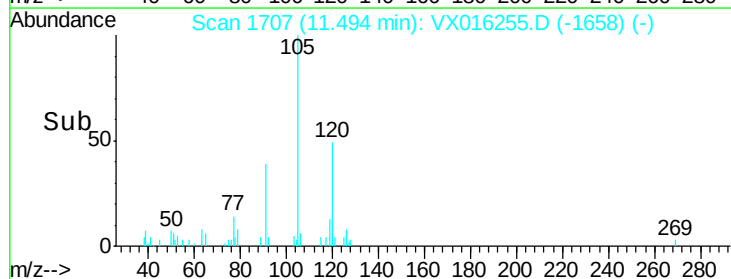
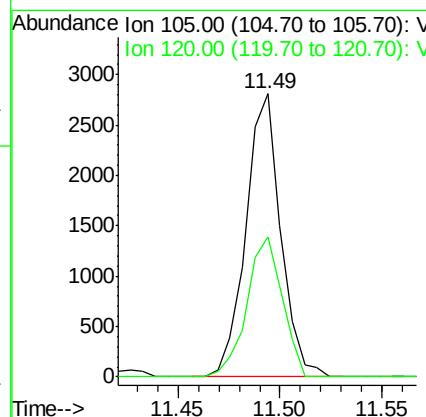
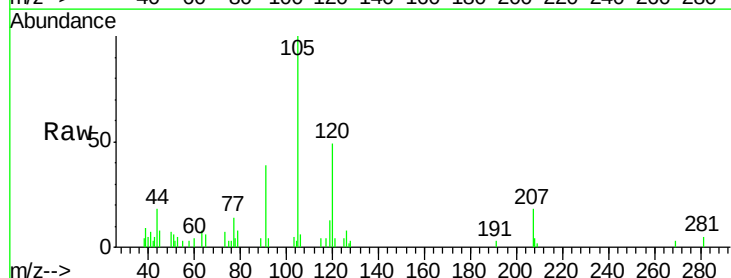
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128866ZHE#03

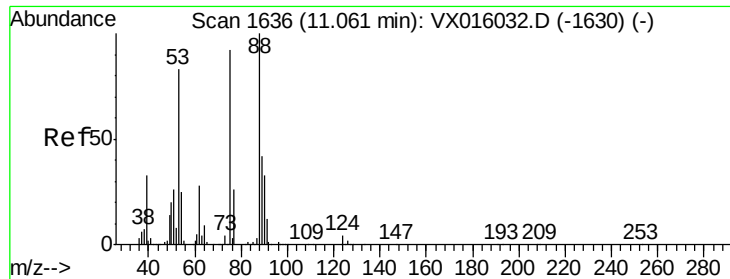
Tgt Ion: 75 Resp: 104285
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.2 63.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX016255.D
 Acq: 15 May 2020 01:27

Tgt Ion: 105 Resp: 3326
 Ion Ratio Lower Upper
 105 100
 120 50.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 50.59 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

Instrument :

MSVOA_X

ClientSampleId :

PB128866ZHE#03

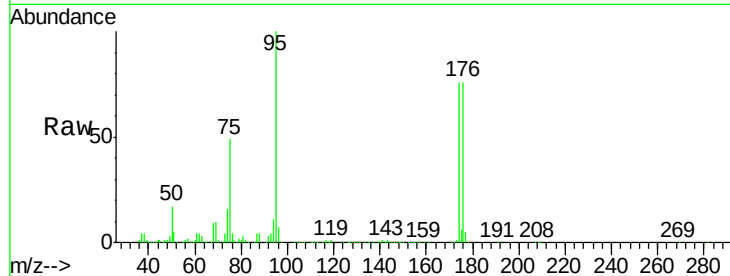
Tgt Ion: 75 Resp: 104285

Ion Ratio Lower Upper

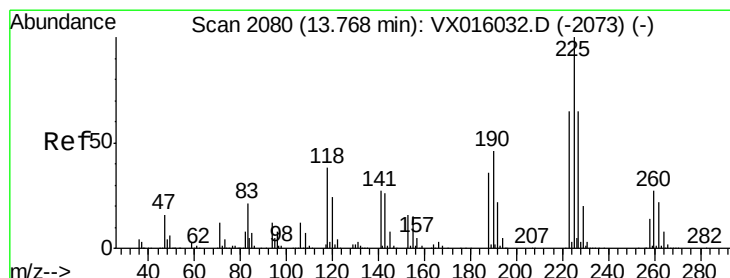
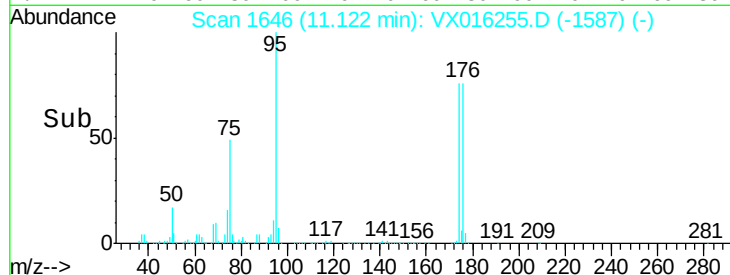
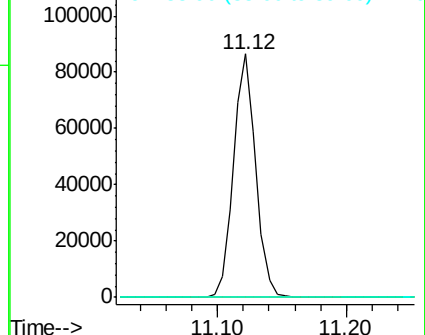
75 100

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: 0.68 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016255.D

Acq: 15 May 2020 01:27

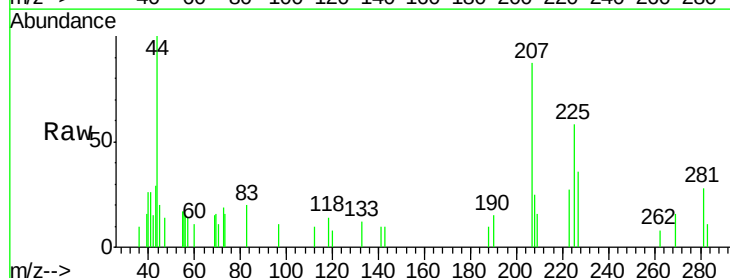
Tgt Ion: 225 Resp: 346

Ion Ratio Lower Upper

225 100

223 68.8 32.3 96.9

227 68.5 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

