

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091720\
 Data File : VX018472.D
 Acq On : 17 Sep 2020 17:32
 Operator : JC/SP
 Sample : L4038-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B36-091620-0-1

Quant Time: Sep 18 06:33:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	519068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	853823	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	839039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	405296	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	360865	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
35) Dibromofluoromethane	5.46	113	283342	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	8.70	98	1060409	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.12	95	406578	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	

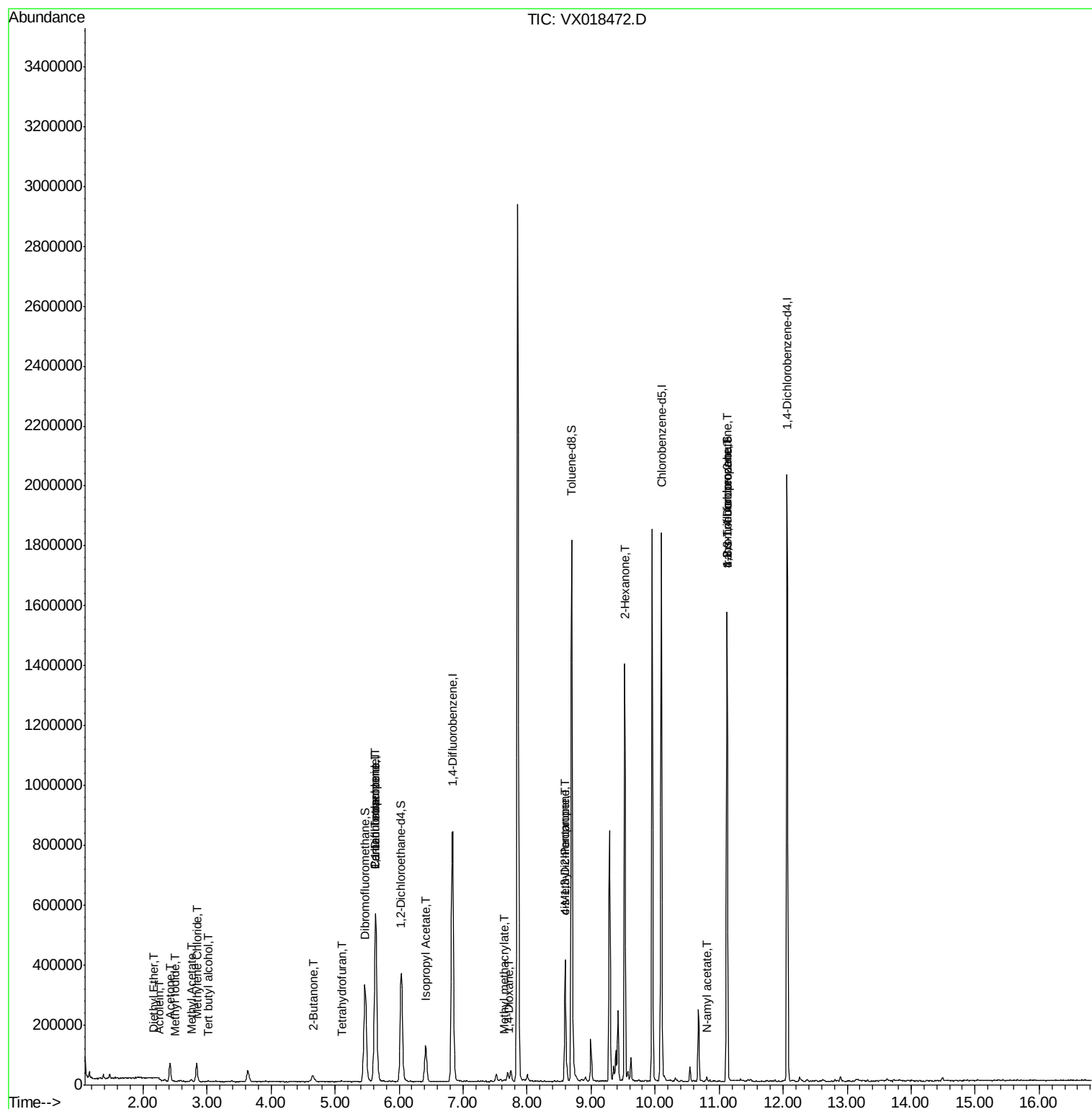
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1095	0.337	ug/l	95
10) Methyl Iodide	2.50	142	565	4.997	ug/l #	64
11) Tert butyl alcohol	3.01	59	3478	2.722	ug/l	95
13) Acrolein	2.26	56	448	0.554	ug/l #	1
16) Acetone	2.42	43	65930	23.477	ug/l	99
18) Methyl Acetate	2.76	43	9496	1.365	ug/l #	83
20) Methylene Chloride	2.84	84	28209	4.553	ug/l	99
25) 2-Butanone	4.65	43	10817	2.473	ug/l	93
29) Tetrahydrofuran	5.10	42	2705	0.981	ug/l	90
36) 1,1-Dichloropropene	5.63	75	40609	4.900	ug/l #	51
38) Carbon Tetrachloride	5.63	117	55216	6.016	ug/l #	19
43) Isopropyl Acetate	6.42	43	162322	11.053	ug/l	100
48) Methyl methacrylate	7.65	41	8130	1.137	ug/l #	17
49) 1,4-Dioxane	7.72	88	275	2.328	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	153808	17.590	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	63268	5.988	ug/l #	63
59) 2-Hexanone	9.52	43	159938	24.048	ug/l #	51
74) N-amyl acetate	10.81	43	7987	0.655	ug/l #	54
76) 1,2,3-Trichloropropane	11.12	75	205957	24.182	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	205957	61.965	ug/l #	12

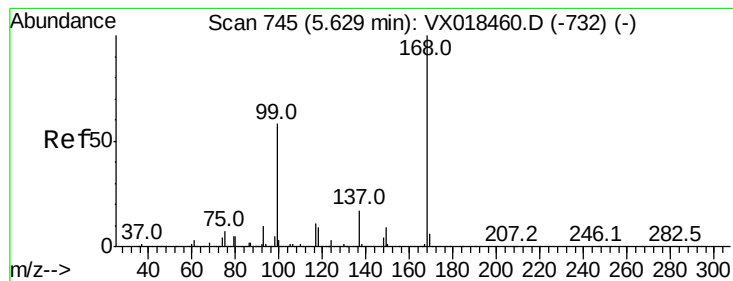
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

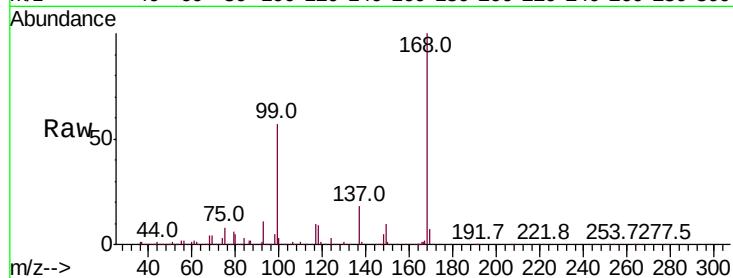
PAV-B36-091620-0-1

Tot Ion:168 Resp: 519068

Ion Ratio Lower Upper

168 100

99 56.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

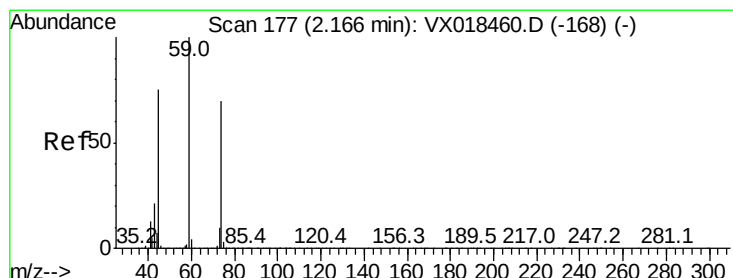
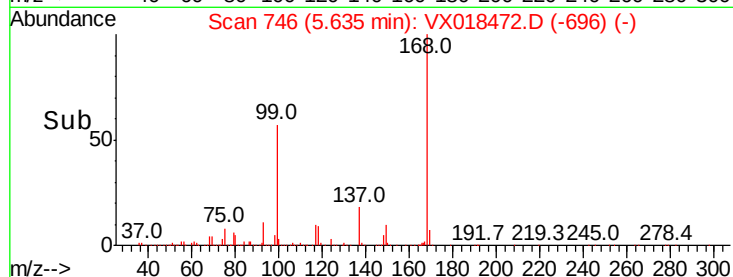
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 0.337 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX018472.D

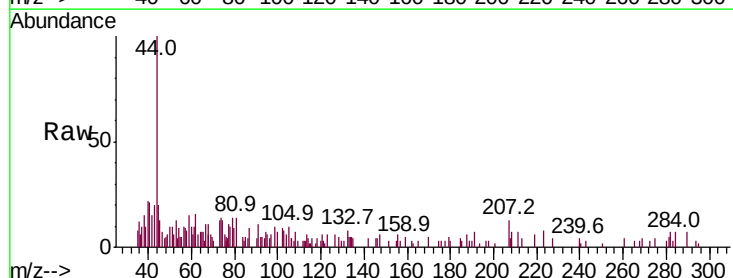
Acq: 17 Sep 2020 17:32

Tgt Ion: 74 Resp: 1095

Ion Ratio Lower Upper

74 100

45 96.3 50.7 152.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1200

1000

800

600

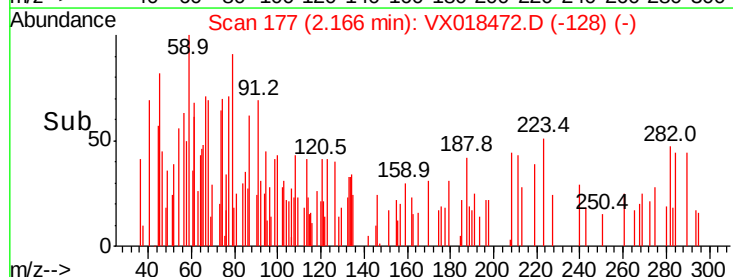
400

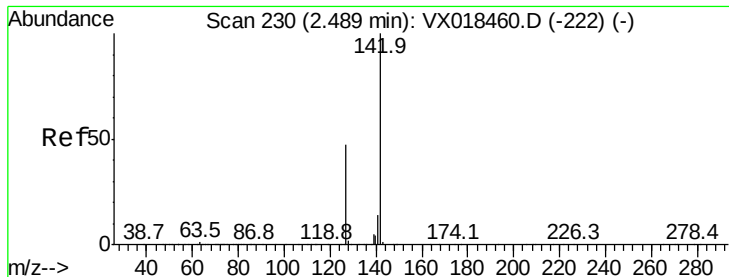
200

0

2.10 2.15 2.20

Time-->

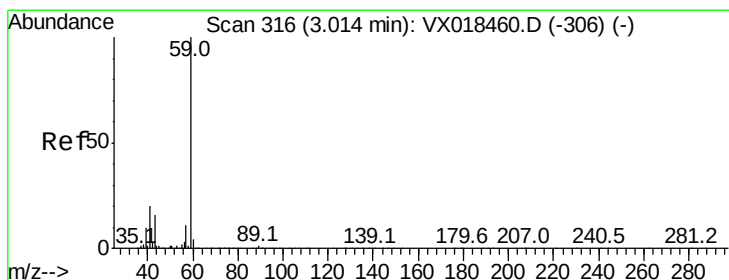
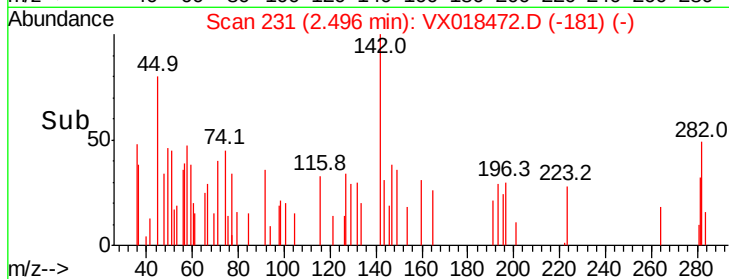
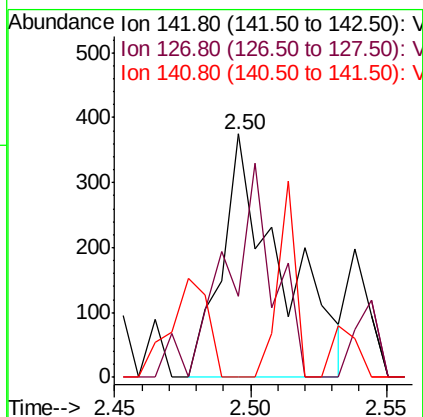
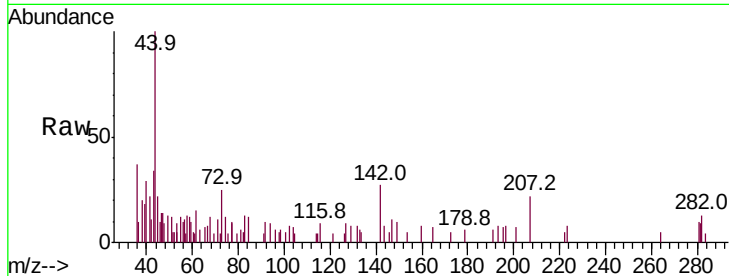




#10
Methyl Iodide
Concen: 4.997 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

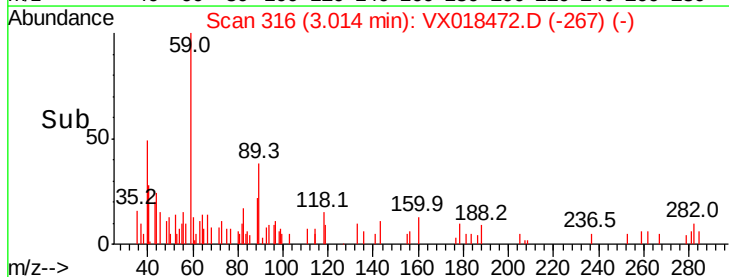
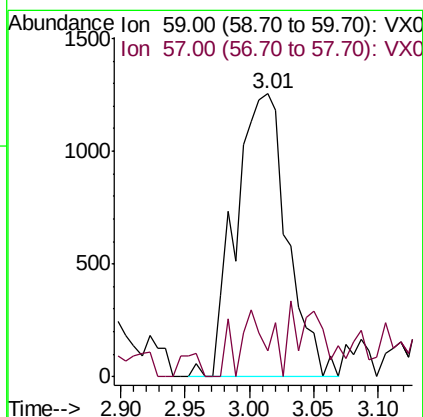
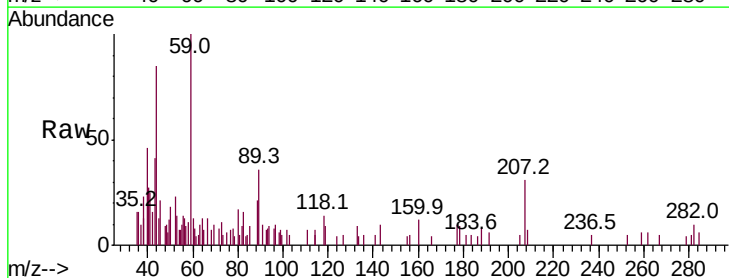
Instrument :
MSVOA_X
ClientSampleId :
PAV-B36-091620-0-1

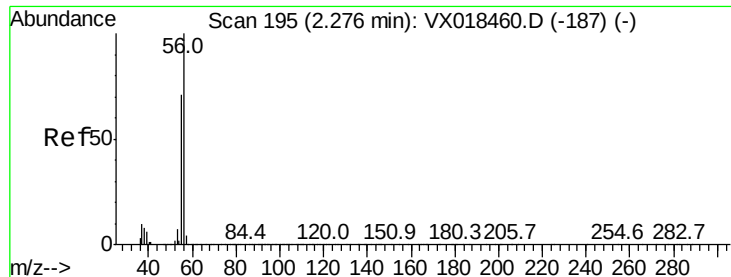
Tot Ion:142 Resp: 565
Ion Ratio Lower Upper
142 100
127 71.5 36.0 54.0#
141 23.9 11.9 17.9#



#11
Tert butyl alcohol
Concen: 2.722 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

Tgt Ion: 59 Resp: 3478
Ion Ratio Lower Upper
59 100
57 8.5 8.2 12.4





#13

Acrolein

Concen: 0.554 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

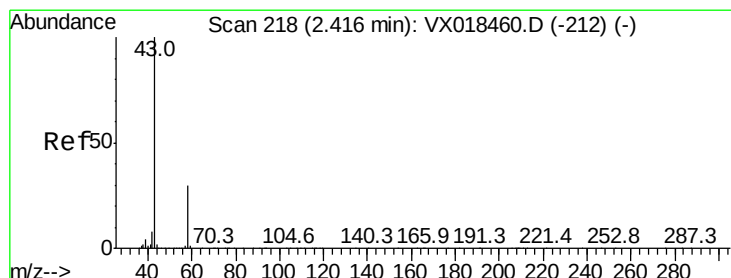
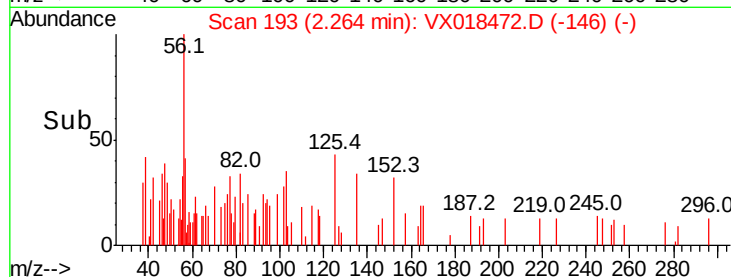
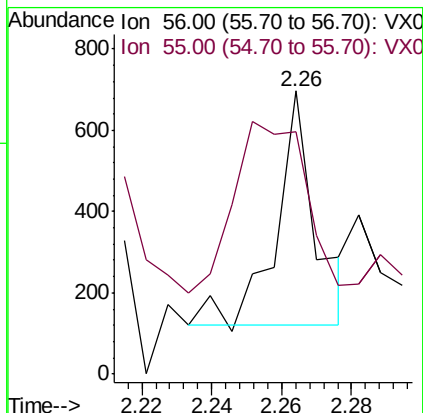
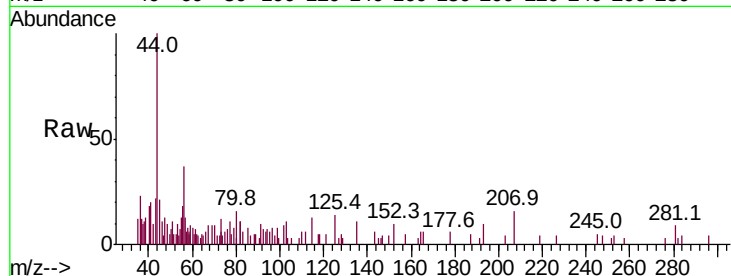
PAV-B36-091620-0-1

Tot Ion: 56 Resp: 448

Ion Ratio Lower Upper

56 100

55 161.6 58.2 87.4#



#16

Acetone

Concen: 23.477 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX018472.D

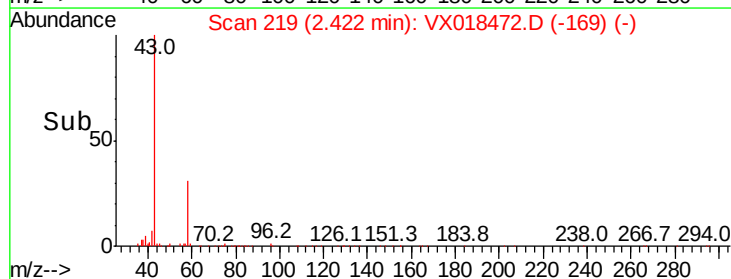
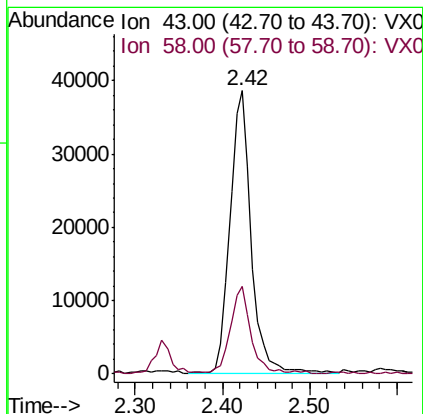
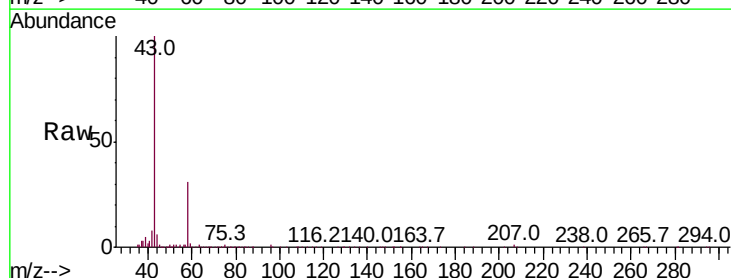
Acq: 17 Sep 2020 17:32

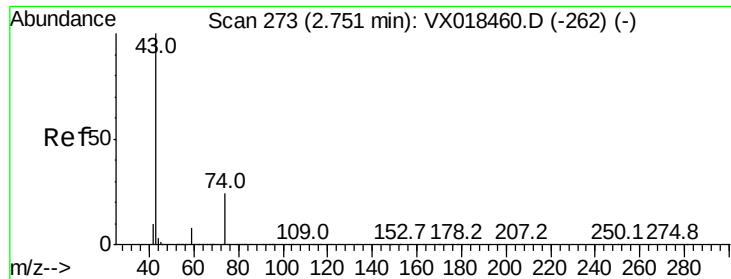
Tgt Ion: 43 Resp: 65930

Ion Ratio Lower Upper

43 100

58 30.5 24.0 36.0

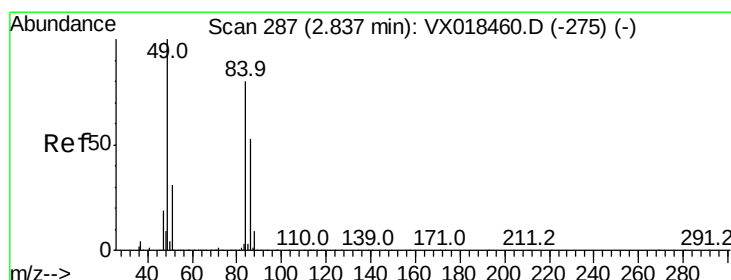
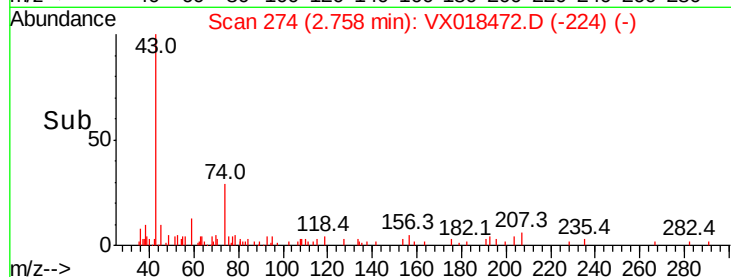
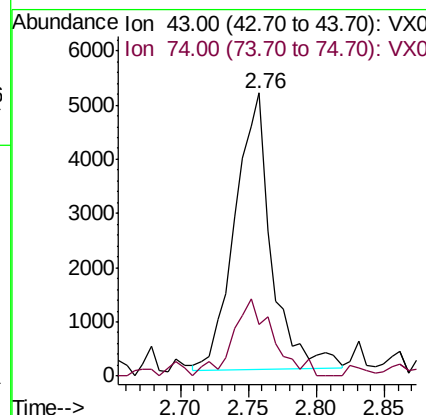
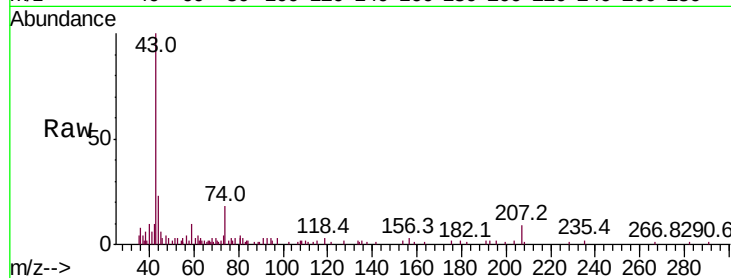




#18
Methyl Acetate
Concen: 1.365 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

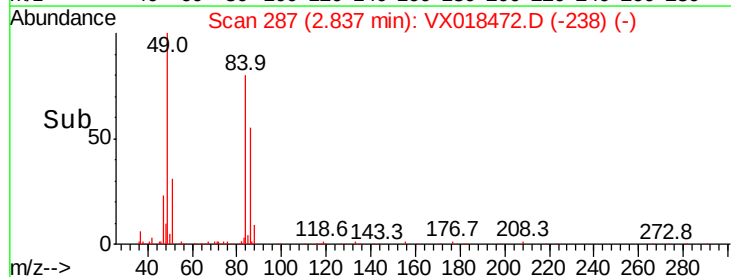
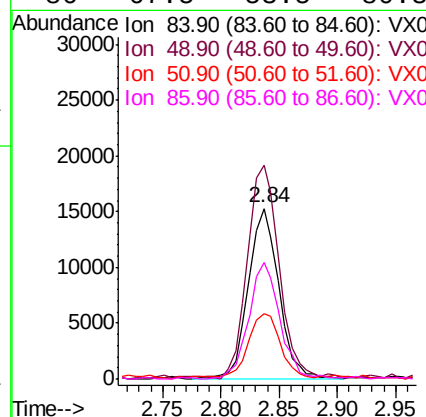
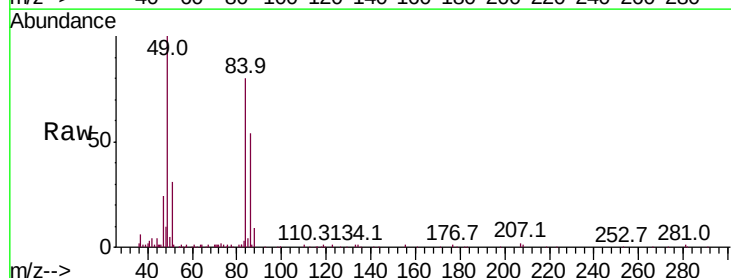
Instrument :
MSVOA_X
ClientSampleId :
PAV-B36-091620-0-1

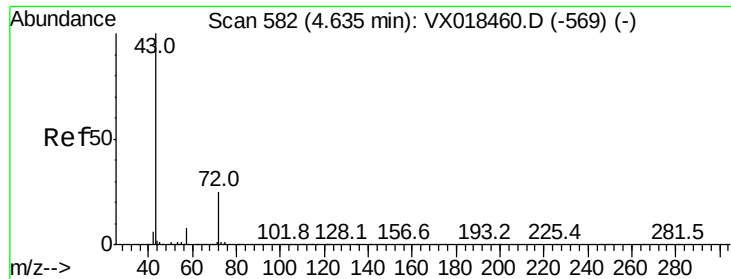
Tot Ion: 43 Resp: 9496
Ion Ratio Lower Upper
43 100
74 31.3 18.3 27.5#



#20
Methylene Chloride
Concen: 4.553 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

Tgt Ion: 84 Resp: 28209
Ion Ratio Lower Upper
84 100
49 124.5 100.6 151.0
51 36.8 30.9 46.3
86 67.5 53.5 80.3





#25

2-Butanone

Concen: 2.473 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

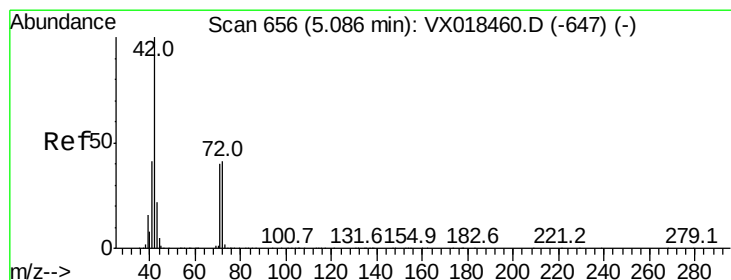
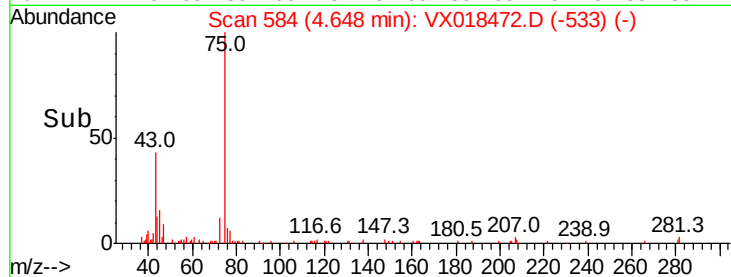
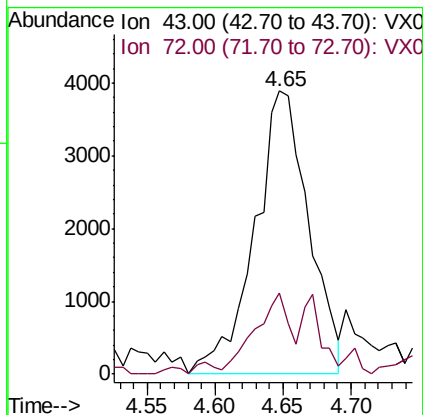
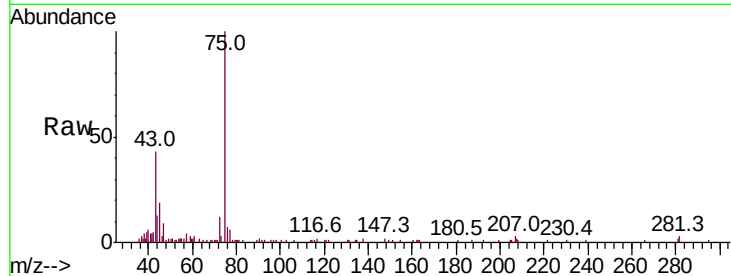
PAV-B36-091620-0-1

Tot Ion: 43 Resp: 10817

Ion Ratio Lower Upper

43 100

72 28.7 20.2 30.4



#29

Tetrahydrofuran

Concen: 0.981 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

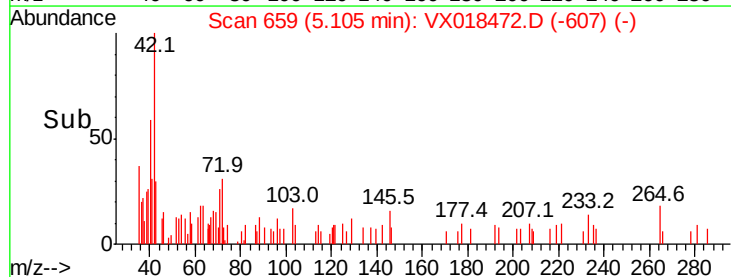
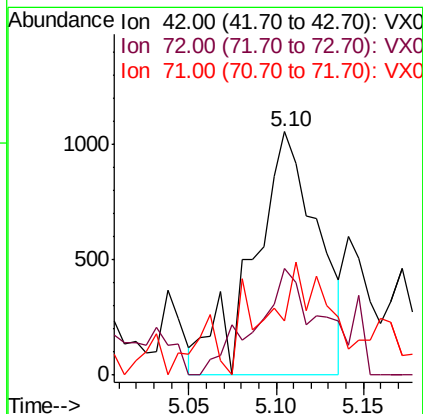
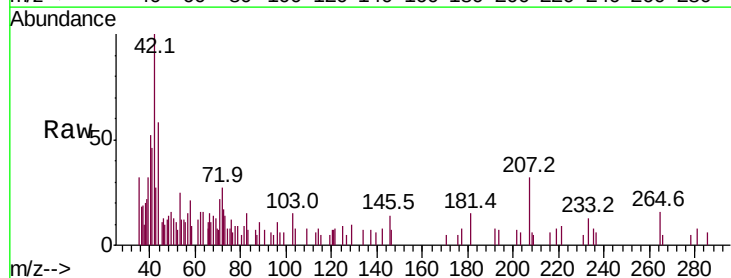
Tgt Ion: 42 Resp: 2705

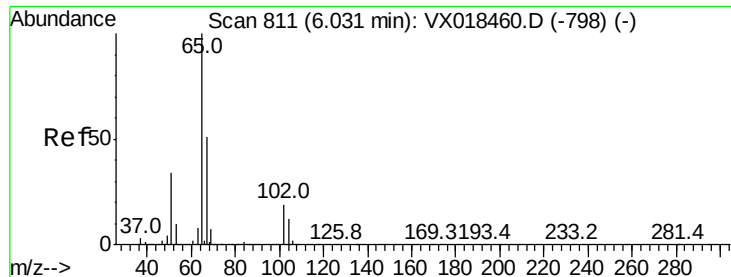
Ion Ratio Lower Upper

42 100

72 48.0 34.3 51.5

71 32.3 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 49.144 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

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ClientSampleId :

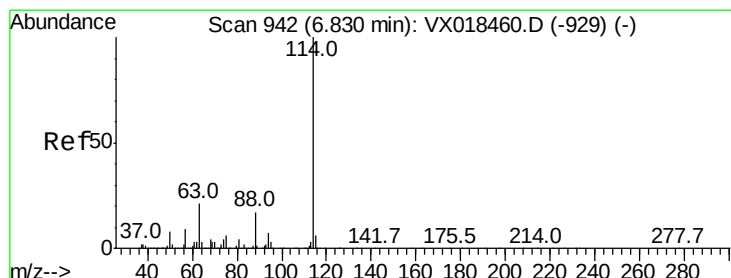
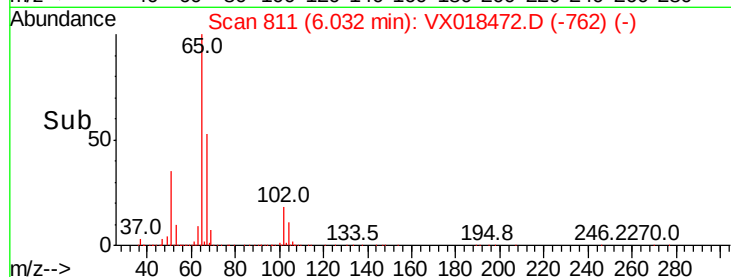
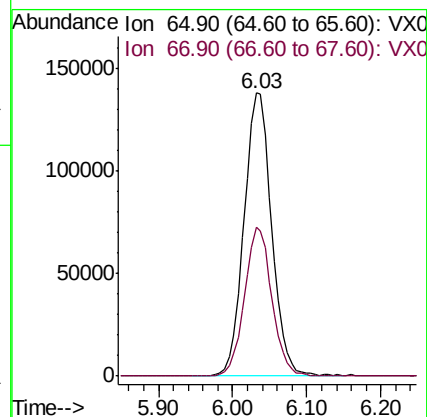
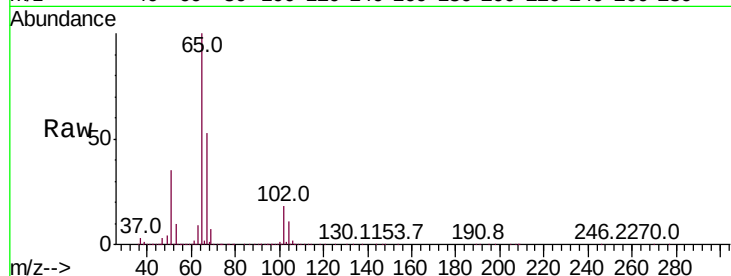
PAV-B36-091620-0-1

Tot Ion: 65 Resp: 360865

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

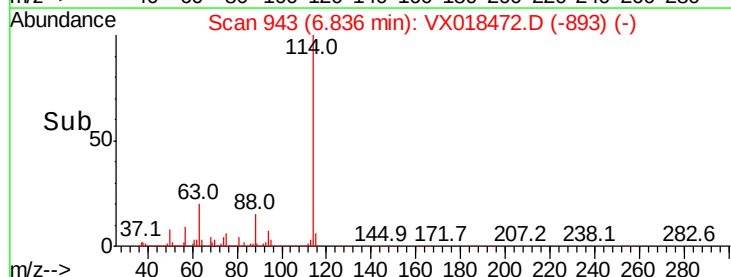
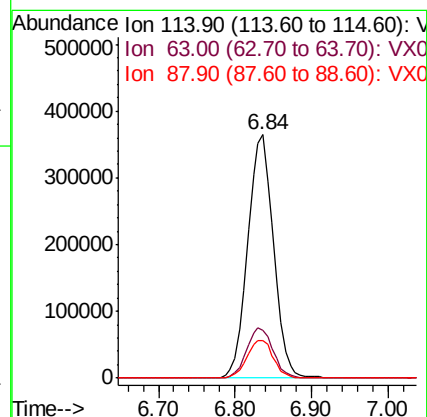
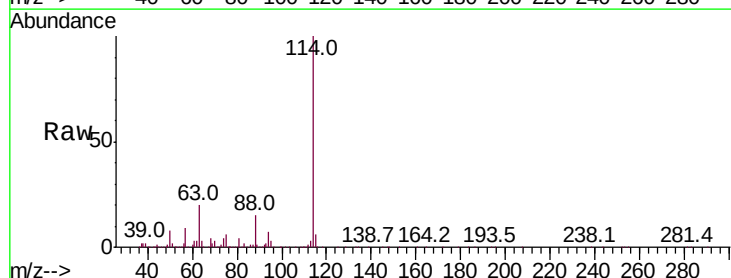
Tgt Ion: 114 Resp: 853823

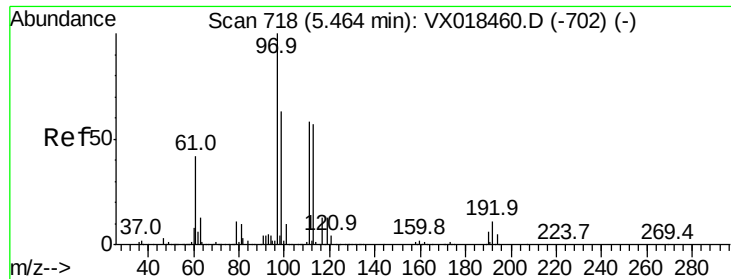
Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

88 15.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 48.003 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX018472.D

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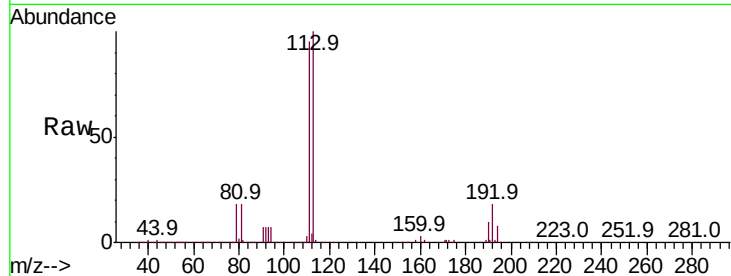
Tot Ion:113 Resp: 283342

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.2

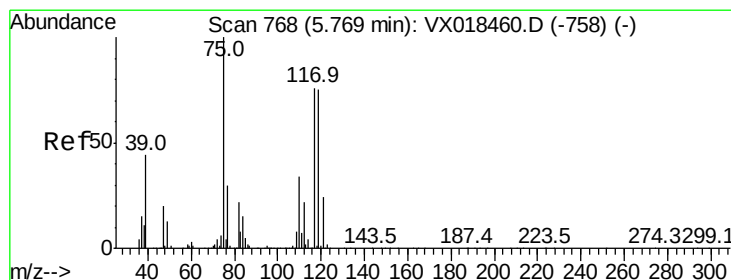
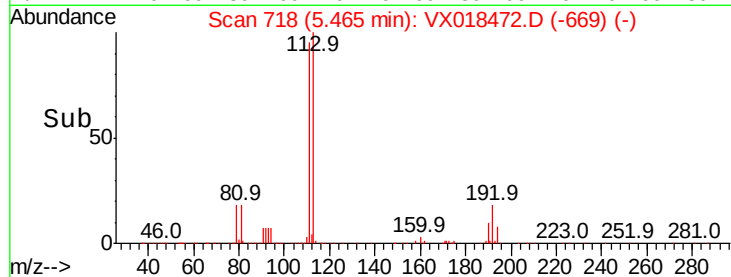
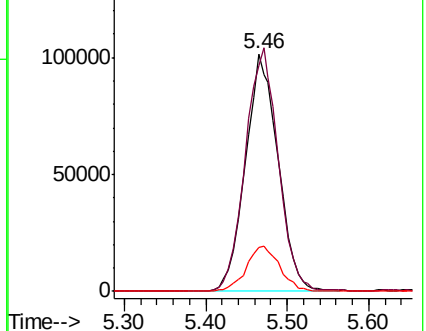
192 19.4 16.6 24.8



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: 4.900 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

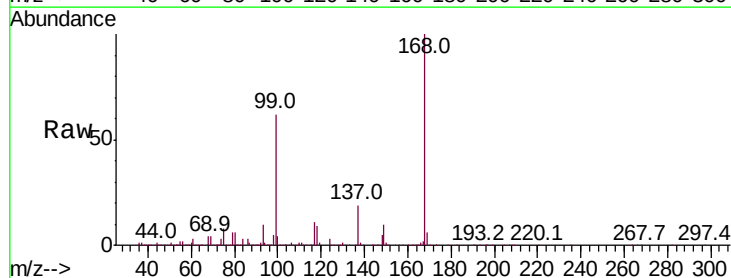
Tgt Ion: 75 Resp: 40609

Ion Ratio Lower Upper

75 100

110 11.0 17.6 52.8#

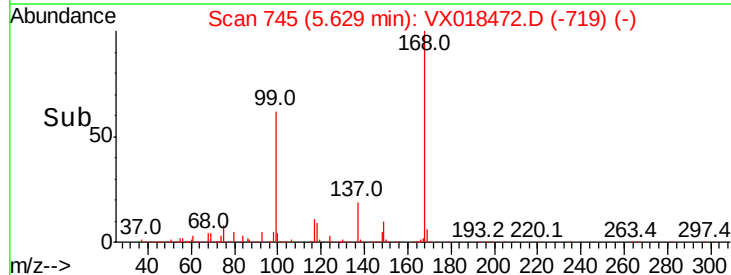
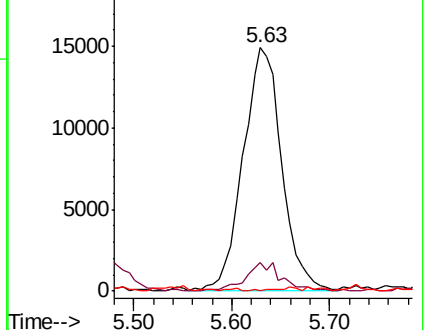
77 0.0 25.0 37.6#

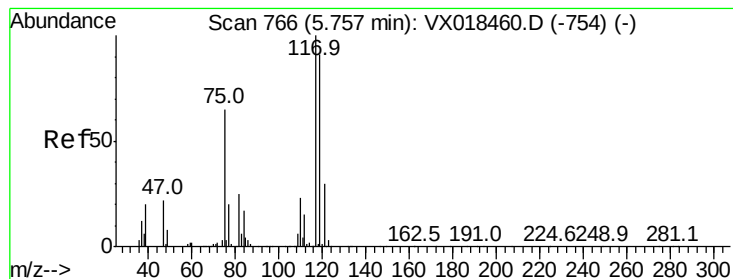


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.016 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

PAV-B36-091620-0-1

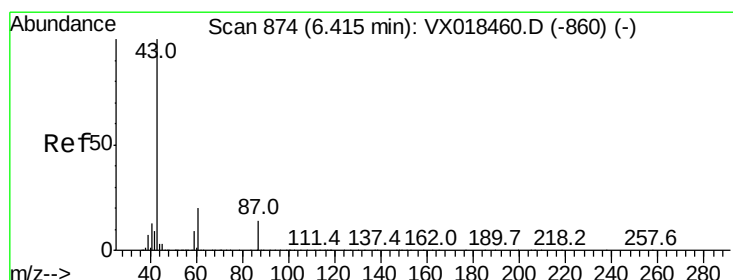
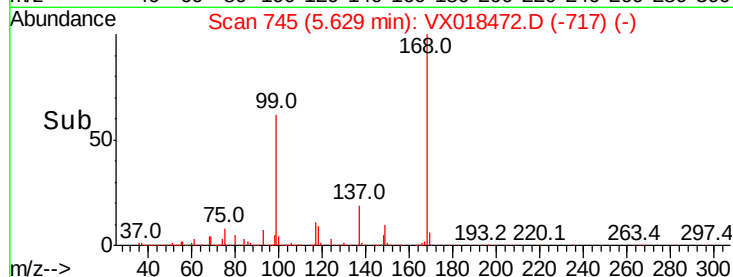
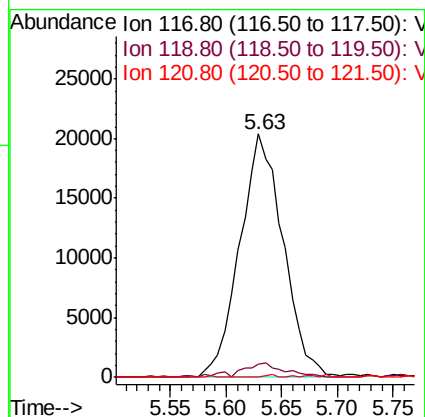
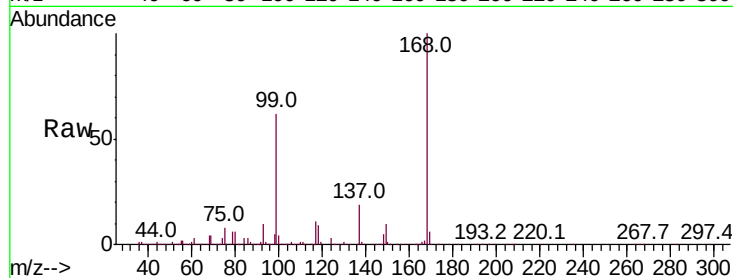
Tot Ion:117 Resp: 55216

Ion Ratio Lower Upper

117 100

119 5.3 72.3 108.5#

121 0.0 23.8 35.8#



#43

Isopropyl Acetate

Concen: 11.053 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

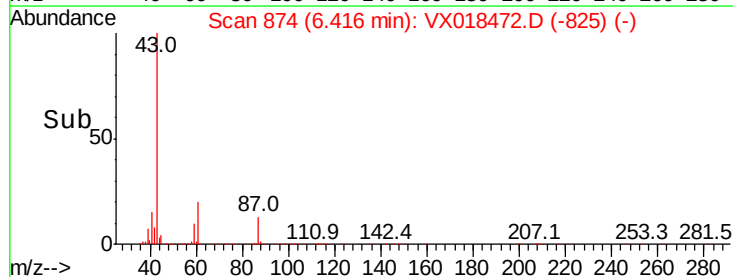
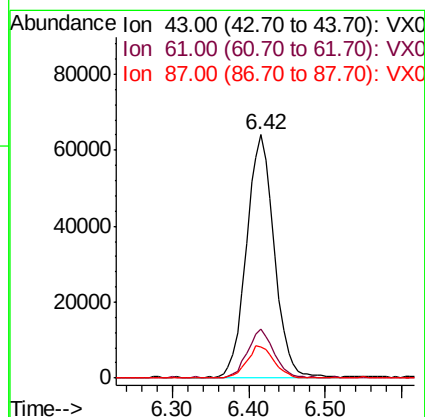
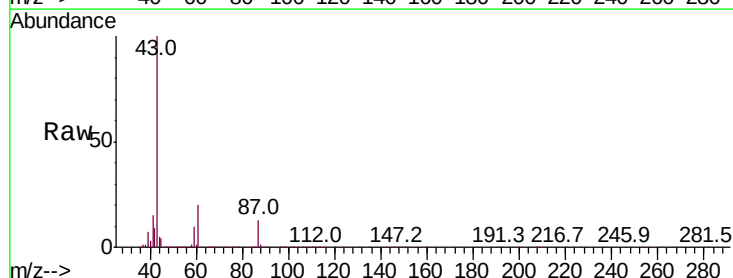
Tgt Ion: 43 Resp: 162322

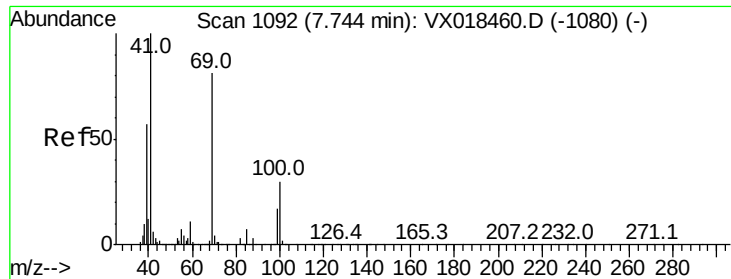
Ion Ratio Lower Upper

43 100

61 19.3 15.7 23.5

87 13.1 10.4 15.6

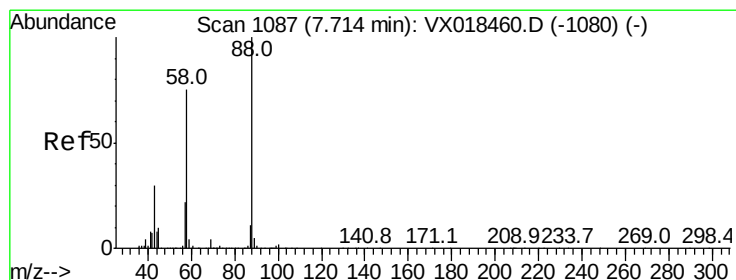
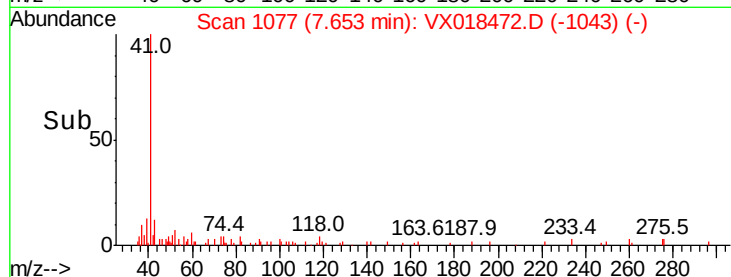
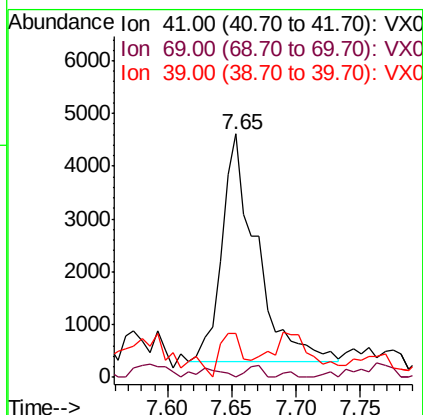
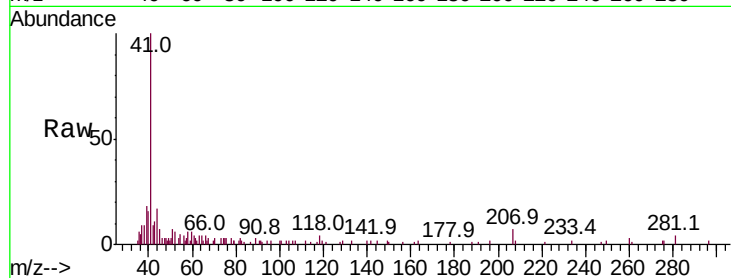




#48
Methvl methacrylate
Concen: 1.137 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

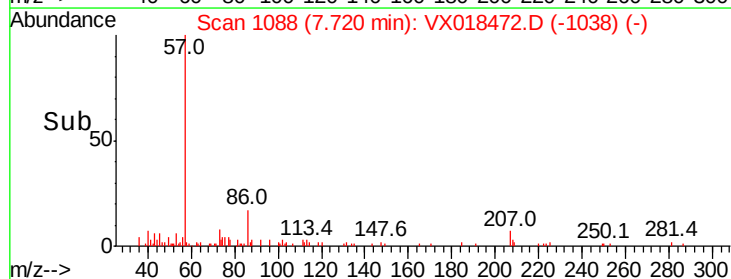
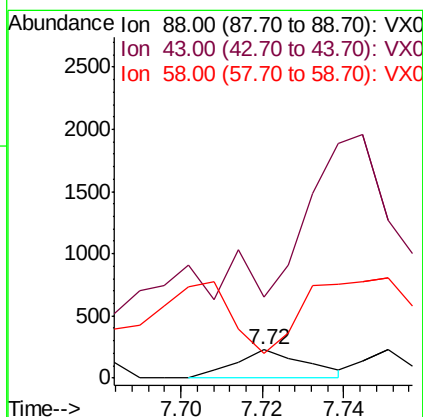
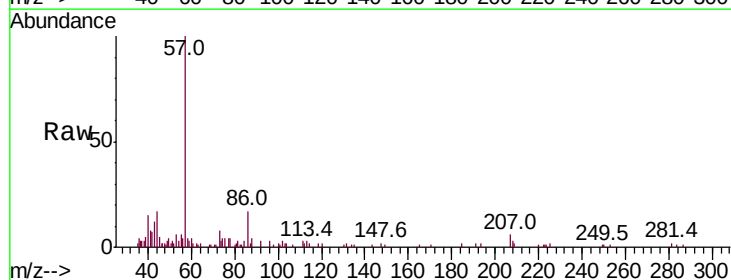
Instrument :
MSVOA_X
ClientSampleId :
PAV-B36-091620-0-1

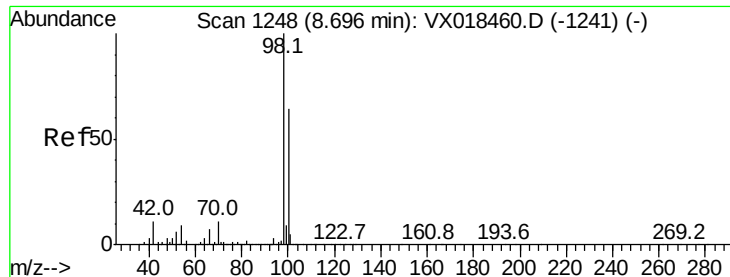
Tot Ion	Ratio	Lower	Upper
41	100		
69	2.3	63.7	95.5#
39	0.0	45.0	67.4#



#49
1,4-Dioxane
Concen: 2.328 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.9	44.9#
58	323.6	59.0	88.6#





#50

Toluene-d8

Concen: 49.445 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

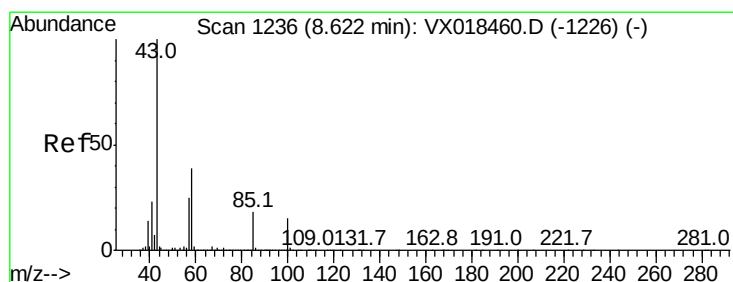
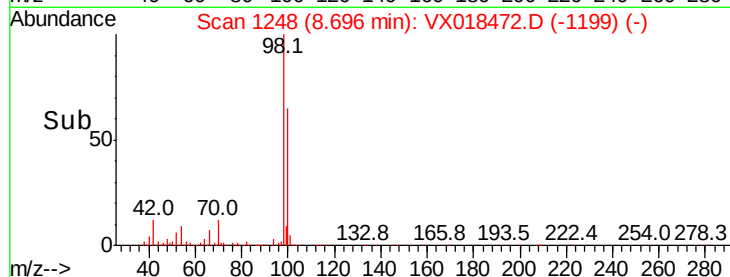
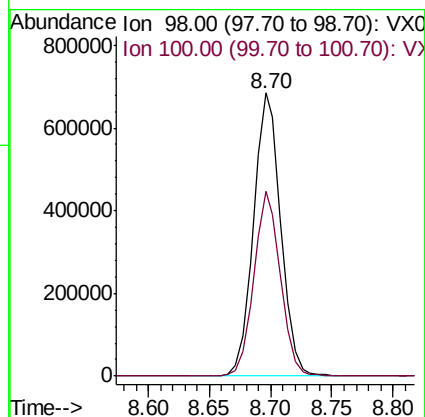
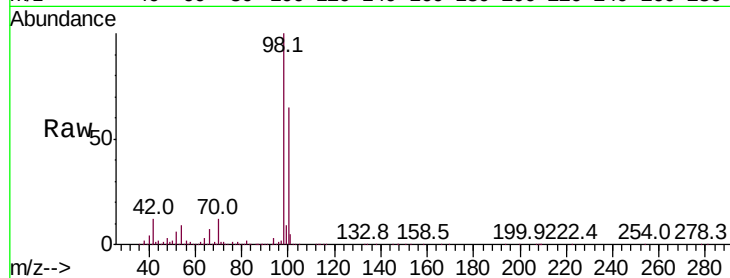
PAV-B36-091620-0-1

Tot Ion: 98 Resp: 1060409

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 17.590 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018472.D

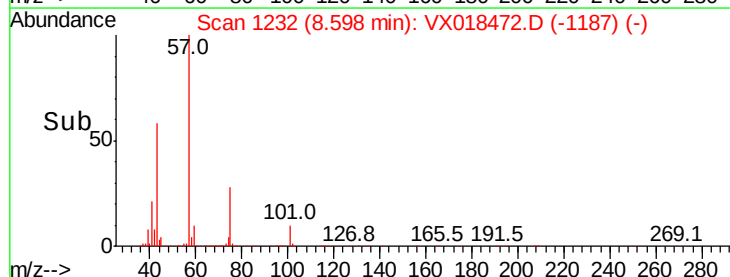
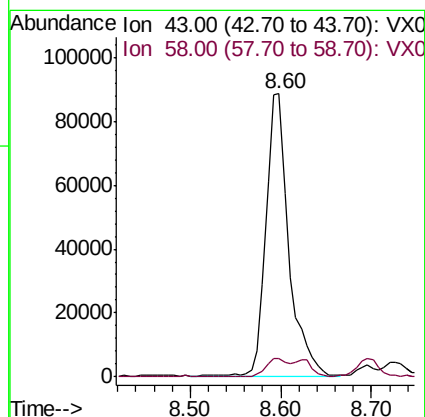
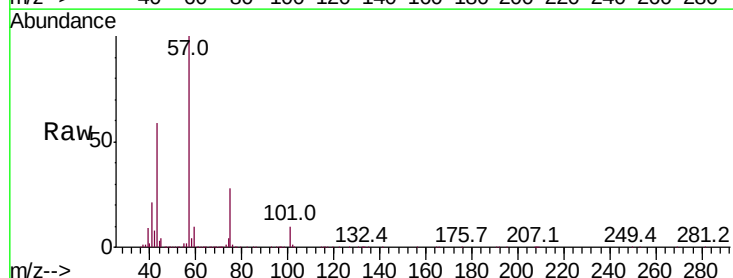
Acq: 17 Sep 2020 17:32

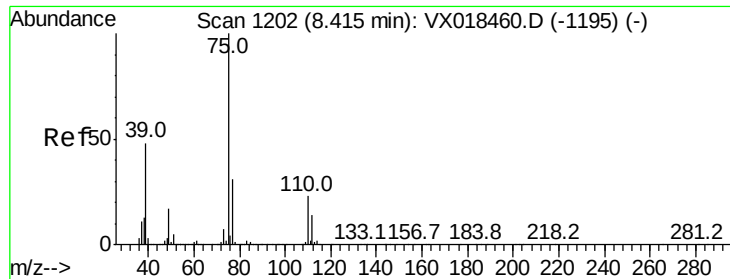
Tgt Ion: 43 Resp: 153808

Ion Ratio Lower Upper

43 100

58 6.7 30.9 46.3#

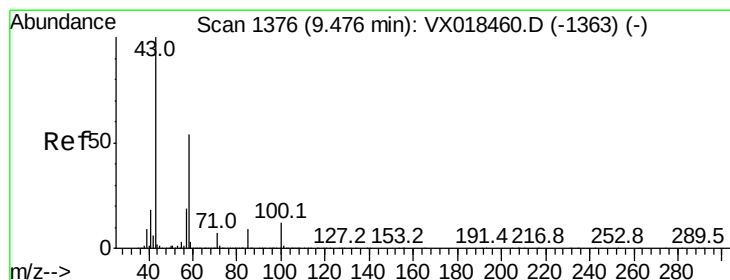
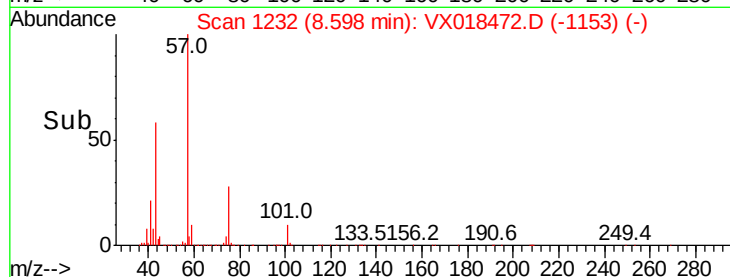
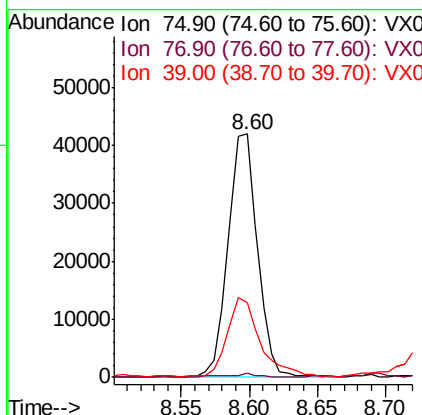
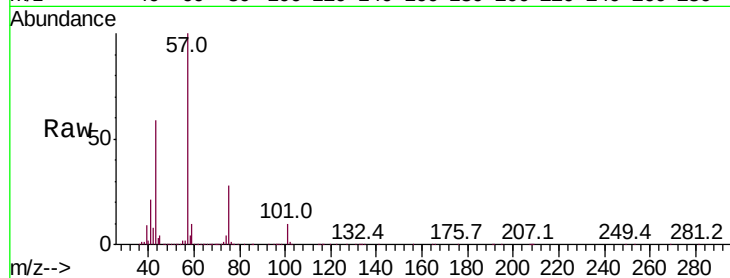




#54
 cis-1,3-Dichloropropene
 Concen: 5.988 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX018472.D
 Acq: 17 Sep 2020 17:32

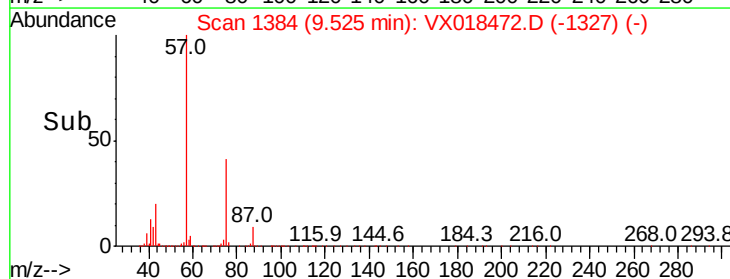
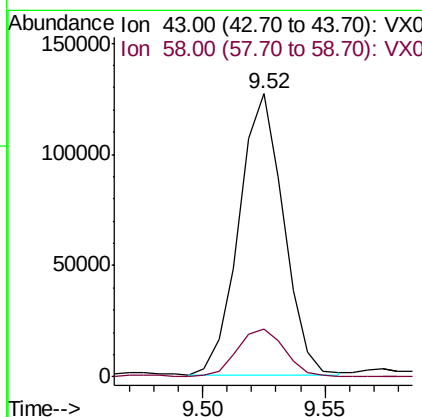
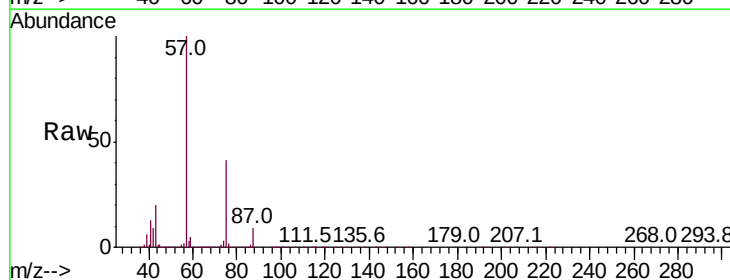
Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B36-091620-0-1

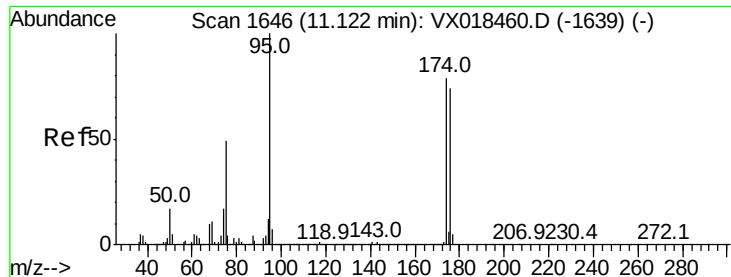
Tot Ion: 75 Resp: 63268
 Ion Ratio Lower Upper
 75 100
 77 1.3 24.8 37.2#
 39 30.2 38.6 58.0#



#59
 2-Hexanone
 Concen: 24.048 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX018472.D
 Acq: 17 Sep 2020 17:32

Tgt Ion: 43 Resp: 159938
 Ion Ratio Lower Upper
 43 100
 58 18.3 26.5 79.4#

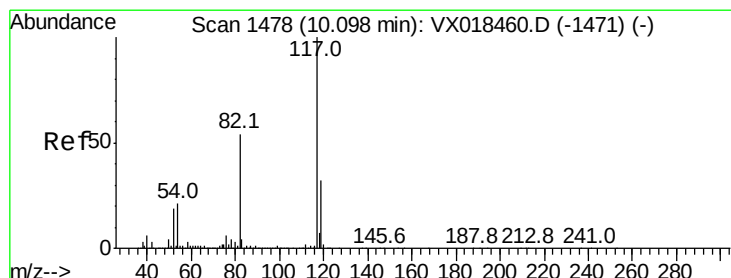
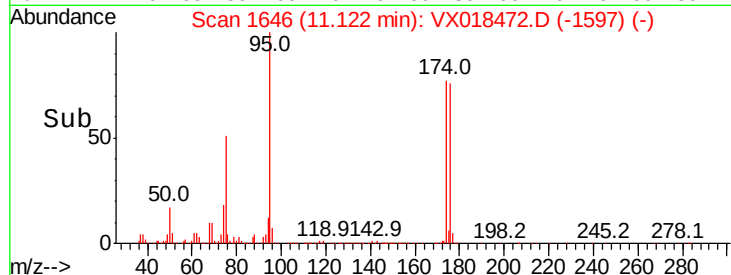
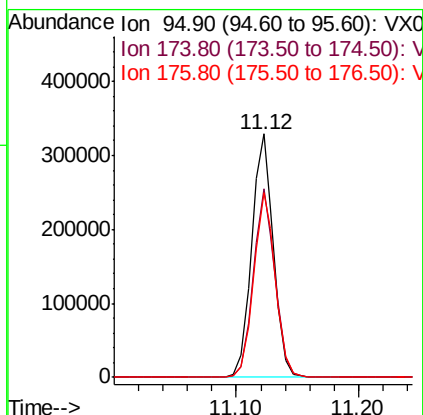
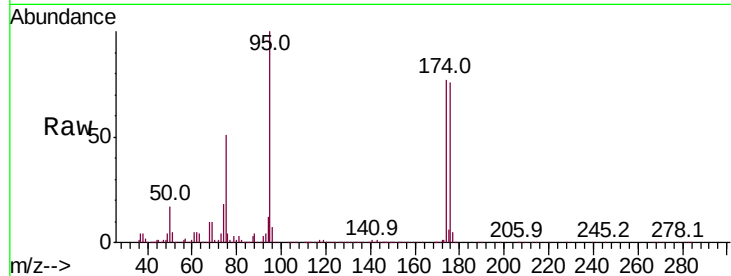




#62
4-Bromofluorobenzene
Concen: 47.660 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

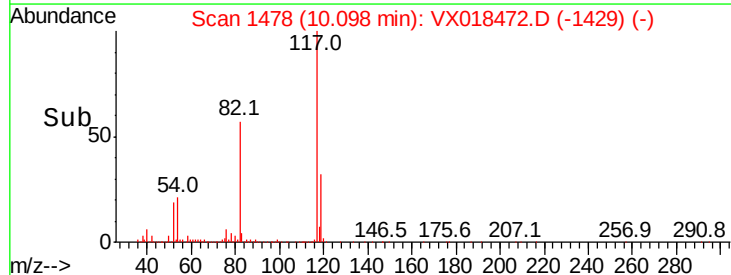
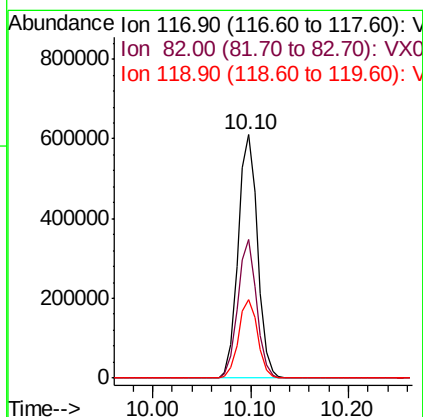
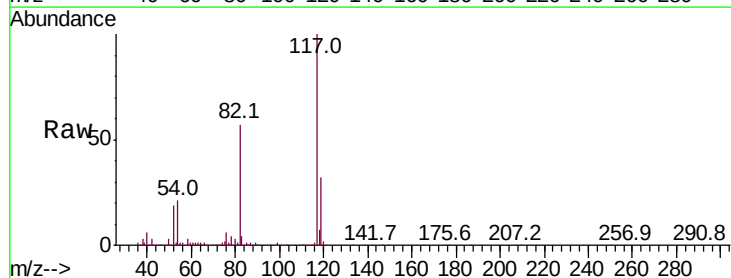
Instrument :
MSVOA_X
ClientSampleId :
PAV-B36-091620-0-1

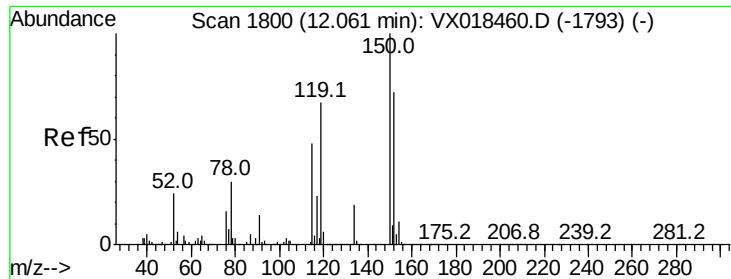
Tot Ion: 95 Resp: 406578
Ion Ratio Lower Upper
95 100
174 77.3 0.0 161.4
176 76.1 0.0 151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018472.D
Acq: 17 Sep 2020 17:32

Tgt Ion: 117 Resp: 839039
Ion Ratio Lower Upper
117 100
82 56.7 43.3 64.9
119 32.2 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

PAV-B36-091620-0-1

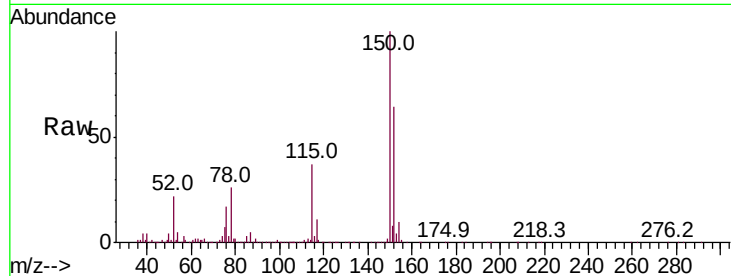
Tot Ion:152 Resp: 405296

Ion Ratio Lower Upper

152 100

115 59.1 41.8 125.4

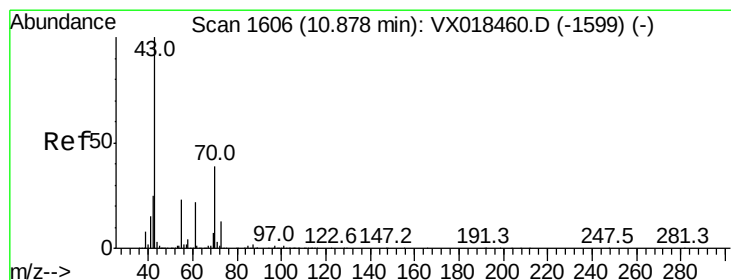
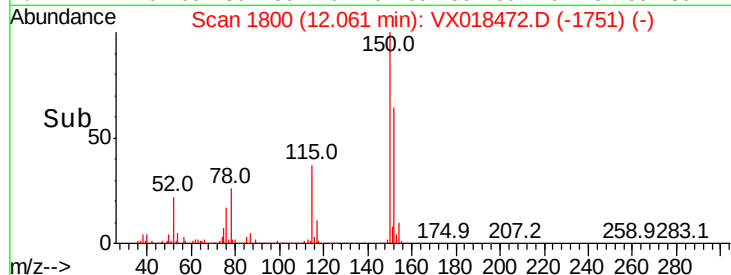
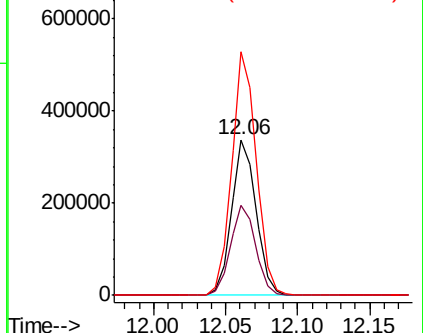
150 156.2 0.0 342.4



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: 0.655 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Tgt Ion: 43 Resp: 7987

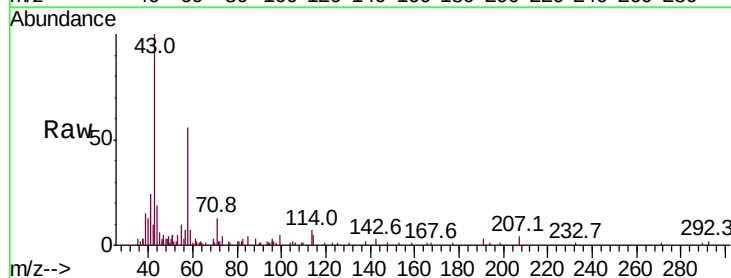
Ion Ratio Lower Upper

43 100

70 2.8 32.2 48.4#

55 15.1 18.8 28.2#

61 0.0 19.0 28.4#

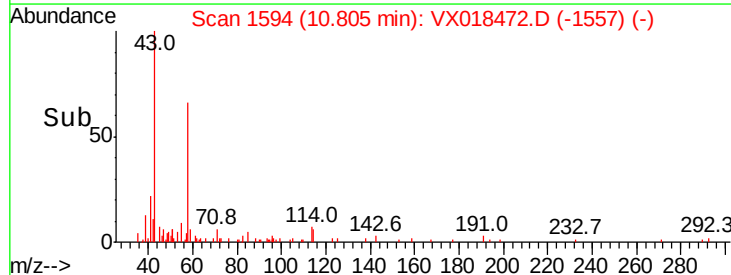
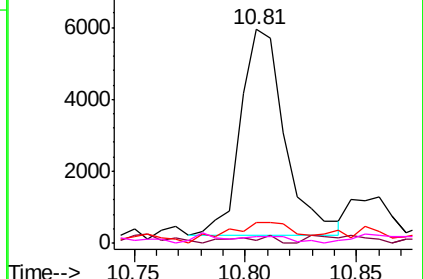


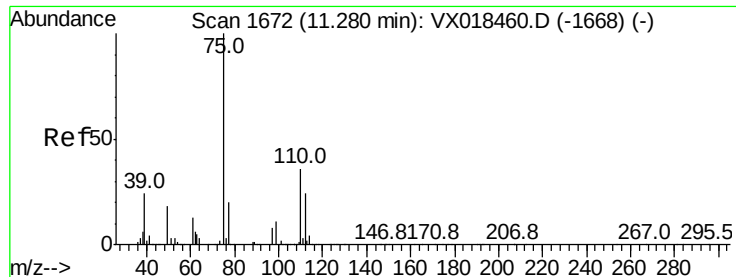
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 24.182 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

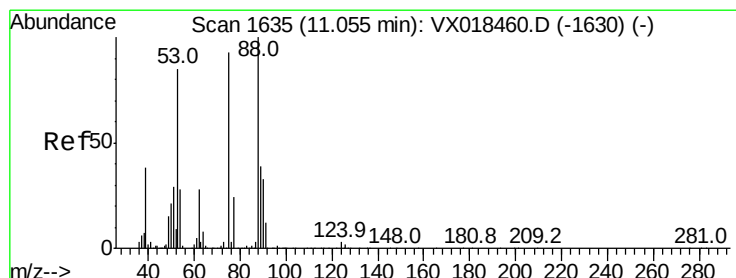
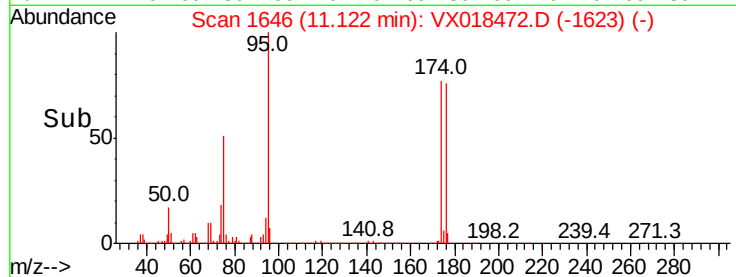
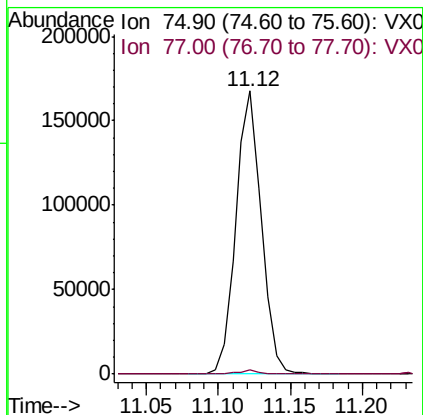
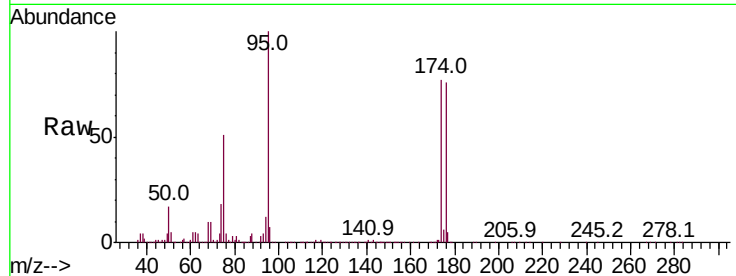
PAV-B36-091620-0-1

Tot Ion: 75 Resp: 205957

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.965 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018472.D

Acq: 17 Sep 2020 17:32

Tgt Ion: 75 Resp: 205957

Ion Ratio Lower Upper

75 100

53 0.3 74.6 111.8#

89 0.1 36.2 54.4#

