

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\
 Data File : VX018426.D
 Acq On : 15 Sep 2020 22:34
 Operator : JC/SP
 Sample : L4013-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B40-091420-14-15

Quant Time: Sep 16 03:41:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	423503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	698783	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	709340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	337934	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	323553	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
35) Dibromofluoromethane	5.47	113	250999	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
50) Toluene-d8	8.70	98	889084	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.12	95	331178	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	

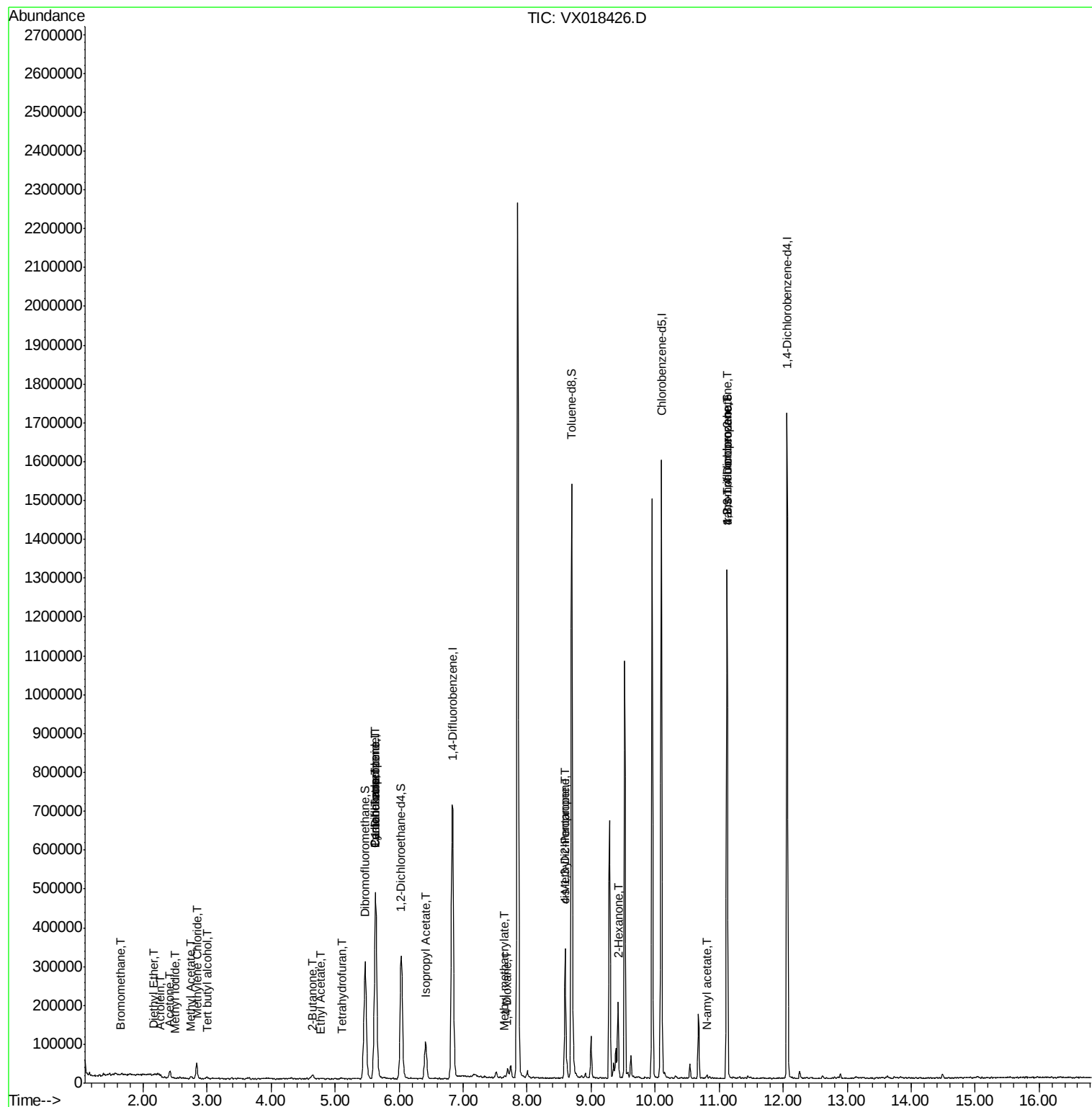
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1292	0.495	ug/l #	22
8) Diethyl Ether	2.17	74	657	0.263	ug/l	58
10) Methyl Iodide	2.50	142	243	5.338	ug/l #	65
11) Tert butyl alcohol	3.01	59	3454	3.021	ug/l #	71
13) Acrolein	2.28	56	803	1.694	ug/l #	80
16) Acetone	2.42	43	20565	8.977	ug/l	95
18) Methyl Acetate	2.75	43	7923	1.433	ug/l #	87
20) Methylene Chloride	2.84	84	18990	2.955	ug/l	92
25) 2-Butanone	4.64	43	4979	1.322	ug/l #	72
29) Tetrahydrofuran	5.10	42	865	0.361	ug/l #	36
31) Cyclohexane	5.63	56	9975	1.417	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	33725	5.233	ug/l #	52
37) Ethyl Acetate	4.78	43	2510	0.335	ug/l #	82
38) Carbon Tetrachloride	5.64	117	44827	6.172	ug/l #	17
43) Isopropyl Acetate	6.42	43	127791	10.569	ug/l	99
48) Methyl methacrylate	7.65	41	6882	1.143	ug/l #	17
49) 1,4-Dioxane	7.68	88	41	0.376	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	124845	16.716	ug/l #	55
54) cis-1,3-Dichloropropene	8.60	75	52136	6.196	ug/l #	61
59) 2-Hexanone	9.42	43	122042	21.490	ug/l #	25
74) N-amyl acetate	10.81	43	4533	0.429	ug/l #	57
76) 1,2,3-Trichloropropane	11.12	75	173168	23.035	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	173168	62.215	ug/l #	12

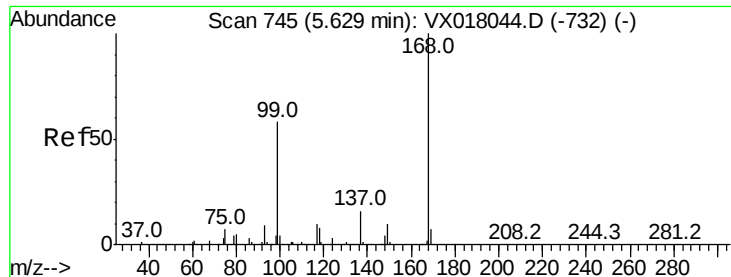
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

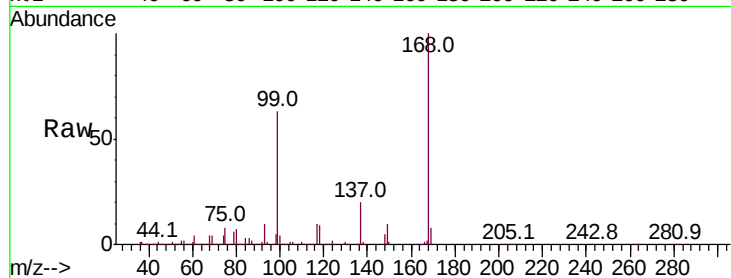
PAV-B40-091420-14-15

Tot Ion:168 Resp: 423503

Ion Ratio Lower Upper

168 100

99 63.3 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

100000

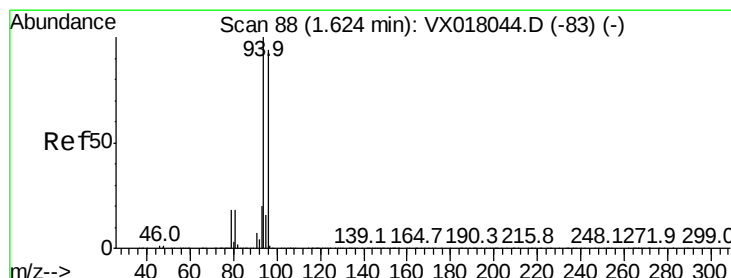
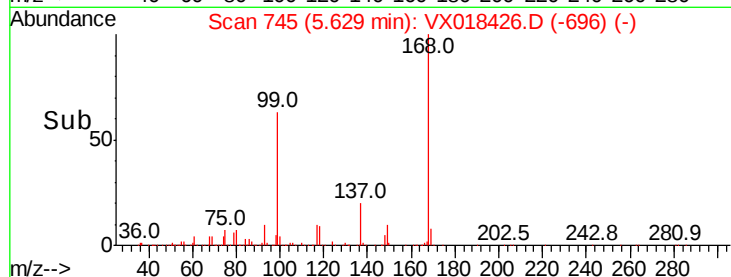
50000

0

5.50 5.60 5.70 5.80

5.63

Time-->



#5

Bromomethane

Concen: 0.495 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018426.D

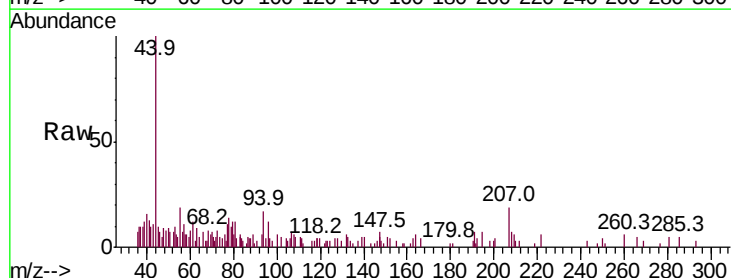
Acq: 15 Sep 2020 22:34

Tgt Ion: 94 Resp: 1292

Ion Ratio Lower Upper

94 100

96 18.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

200

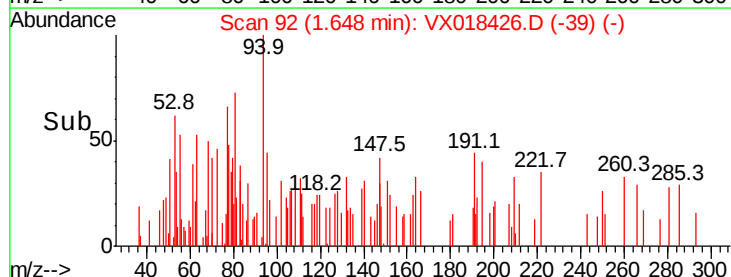
100

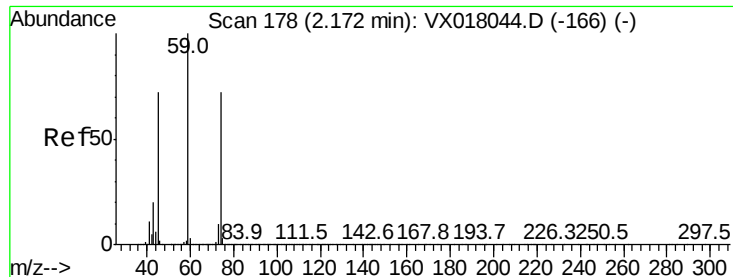
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1.55 1.60 1.65 1.70

1.65

Time-->

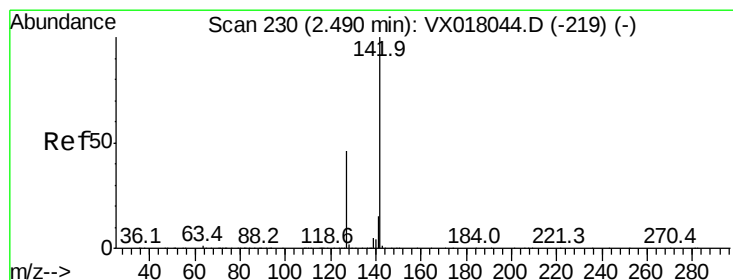
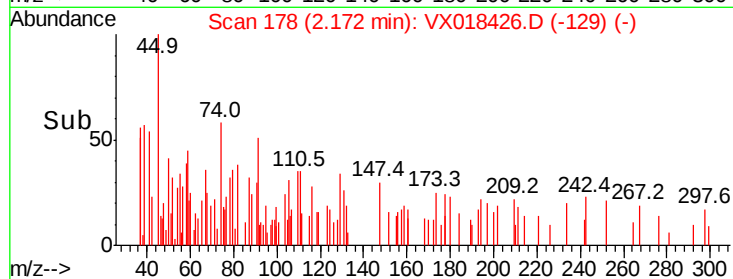
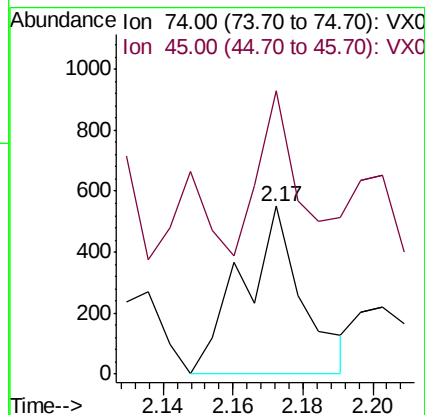
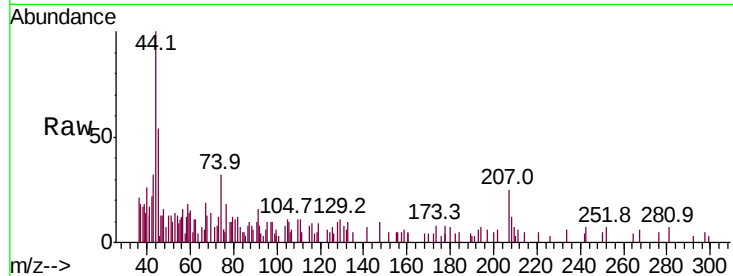




#8
Diethyl Ether
Concen: 0.263 ug/l
RT: 2.17 min Scan# 178
Delta R.T. -0.00 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

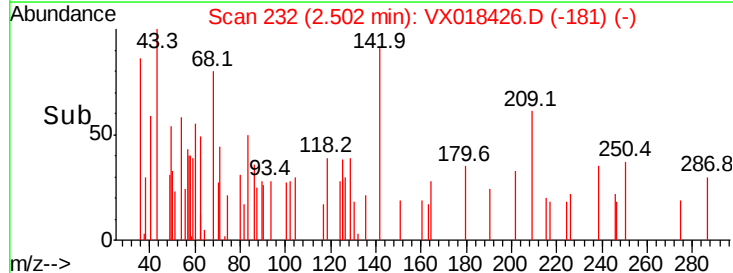
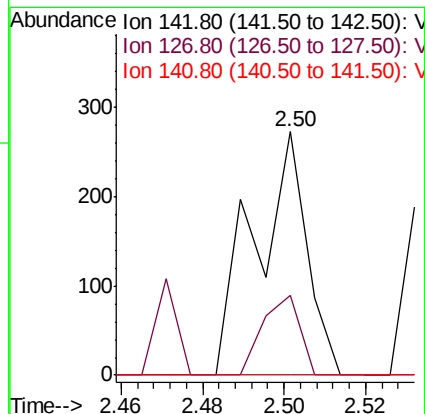
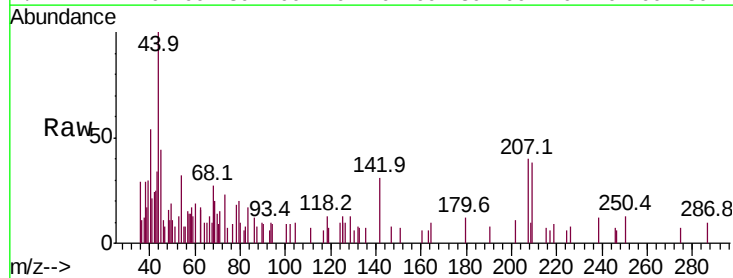
Instrument :
MSVOA_X
ClientSampleId :
PAV-B40-091420-14-15

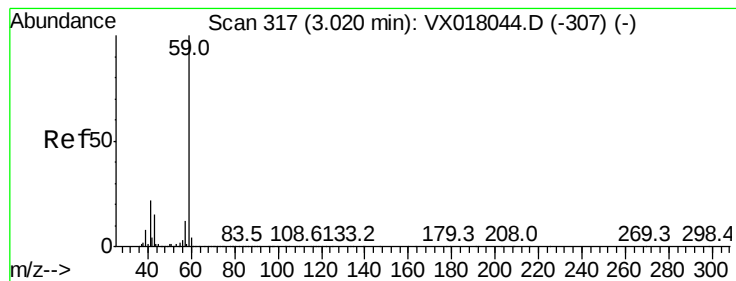
Tot Ion: 74 Resp: 657
Ion Ratio Lower Upper
74 100
45 59.1 50.7 152.3



#10
Methyl Iodide
Concen: 5.338 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

Tgt Ion: 142 Resp: 243
Ion Ratio Lower Upper
142 100
127 23.5 37.0 55.6#
141 0.0 11.5 17.3#



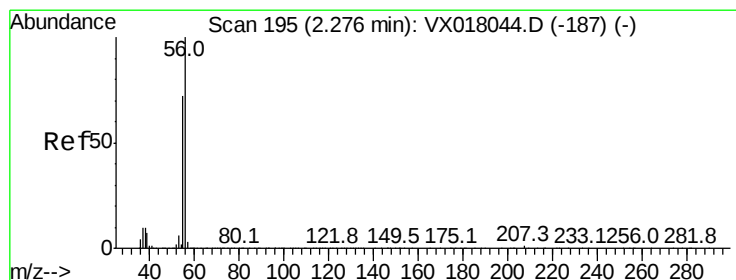
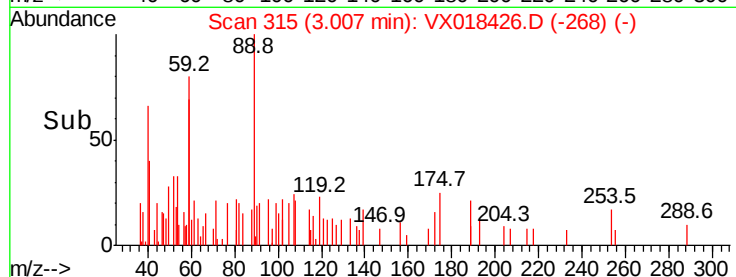
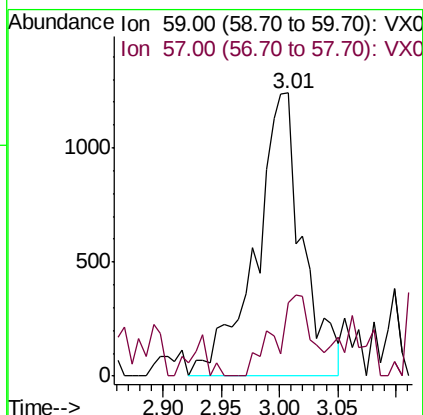
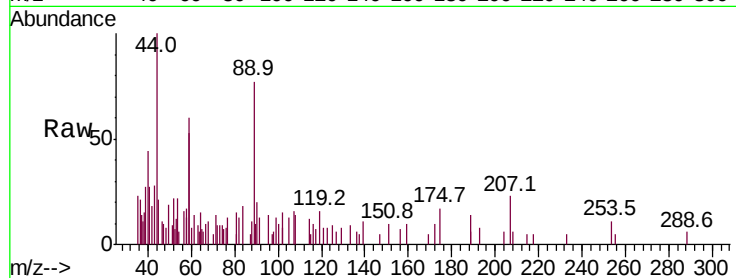


#11

Tert butyl alcohol
 Concen: 3.021 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX018426.D
 Acq: 15 Sep 2020 22:34

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B40-091420-14-15

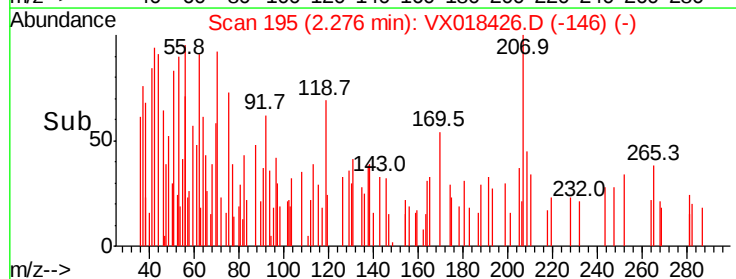
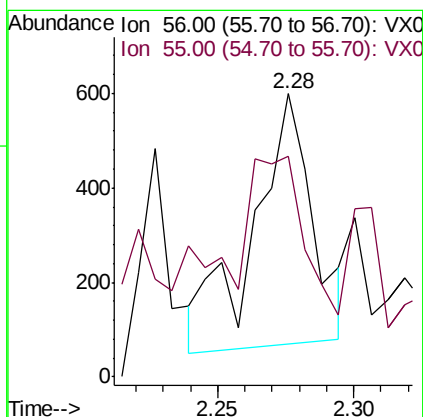
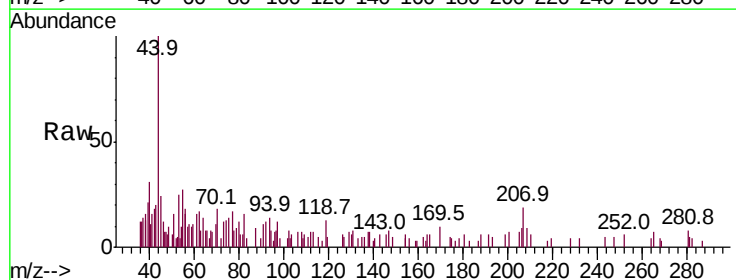
Tot Ion: 59 Resp: 3454
 Ion Ratio Lower Upper
 59 100
 57 22.1 8.9 13.3#

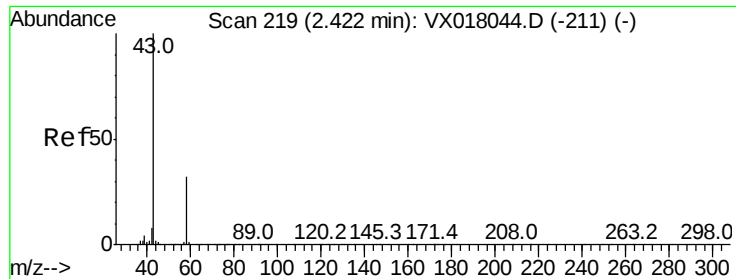


#13

Acrolein
 Concen: 1.694 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX018426.D
 Acq: 15 Sep 2020 22:34

Tgt Ion: 56 Resp: 803
 Ion Ratio Lower Upper
 56 100
 55 54.8 57.0 85.6#

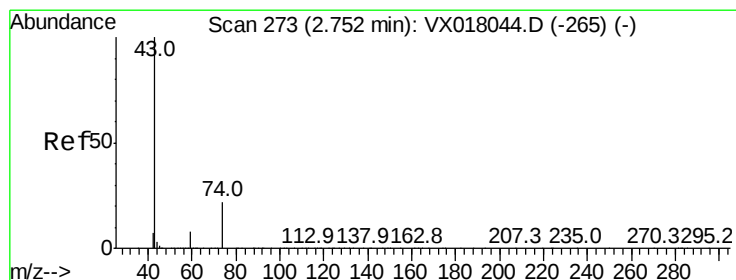
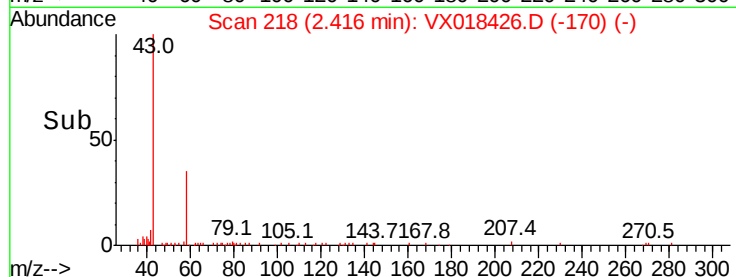
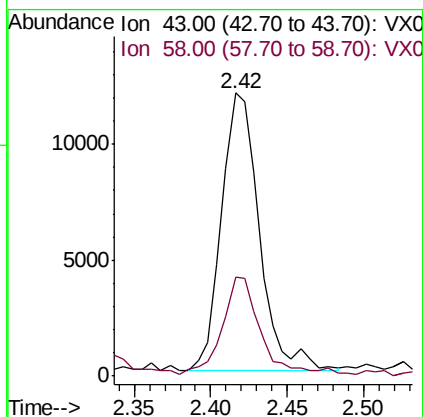
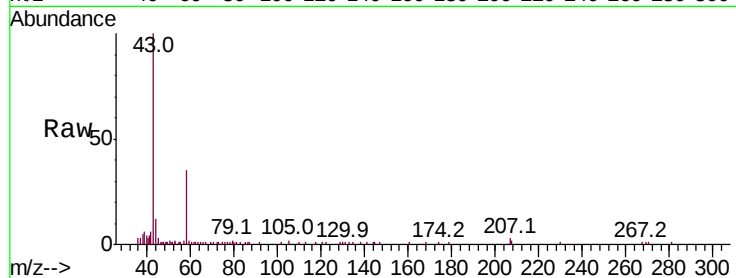




#16
Acetone
Concen: 8.977 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

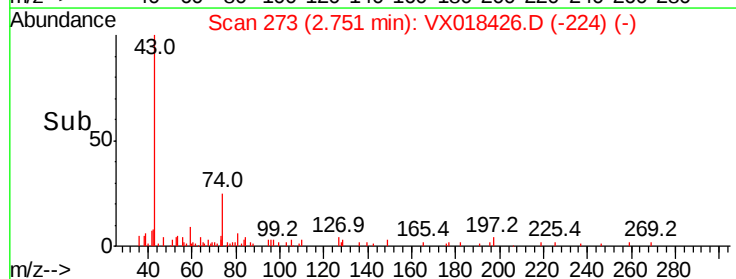
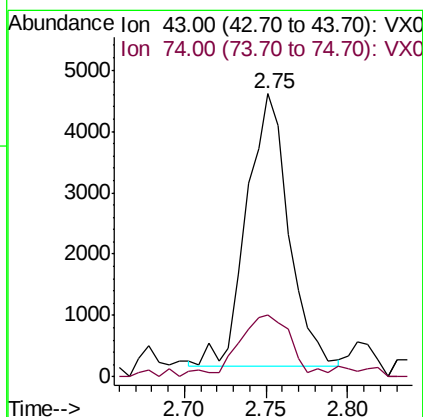
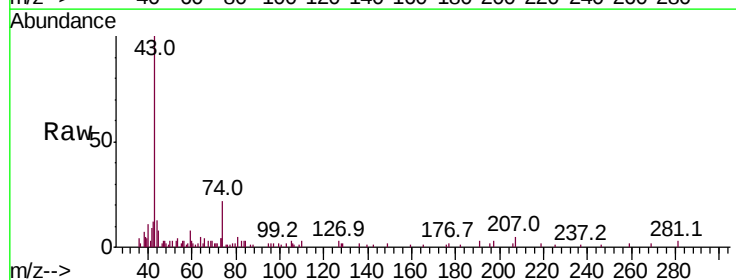
Instrument :
MSVOA_X
ClientSampleId :
PAV-B40-091420-14-15

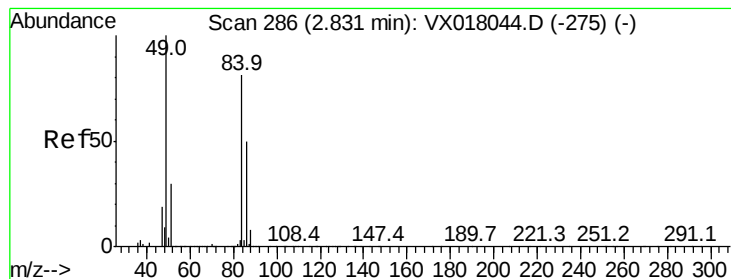
Tot Ion: 43 Resp: 20565
Ion Ratio Lower Upper
43 100
58 34.7 25.5 38.3



#18
Methyl Acetate
Concen: 1.433 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

Tgt Ion: 43 Resp: 7923
Ion Ratio Lower Upper
43 100
74 28.9 18.2 27.4#





#20

Methylene Chloride

Concen: 2.955 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

Tot Ion: 84 Resp: 18990

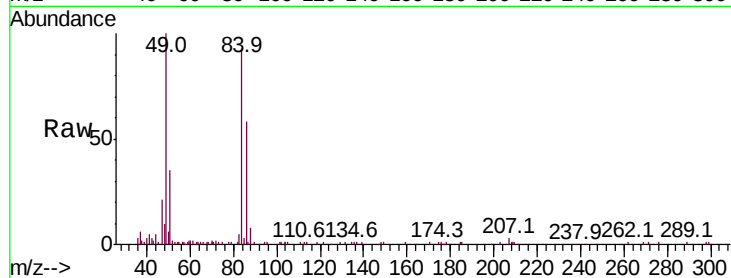
Ion Ratio Lower Upper

84 100

49 107.8 98.6 148.0

51 35.9 29.6 44.4

86 62.9 49.8 74.6

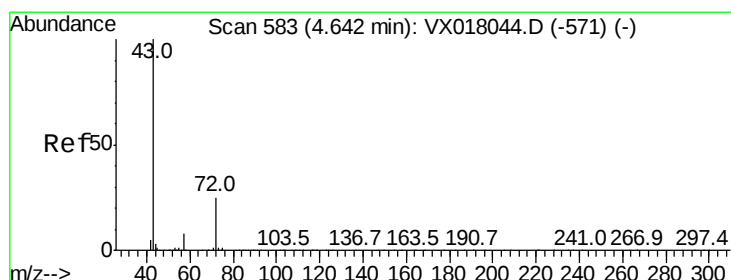
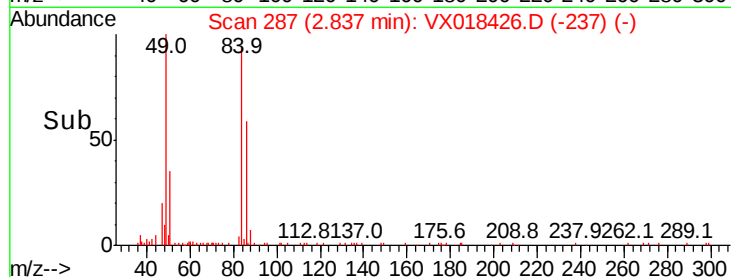
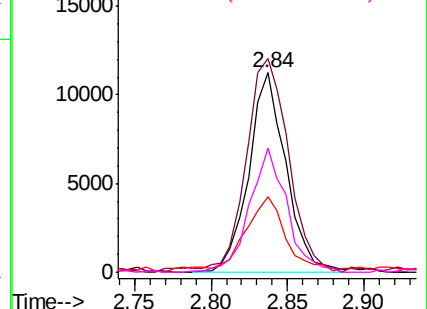


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.322 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018426.D

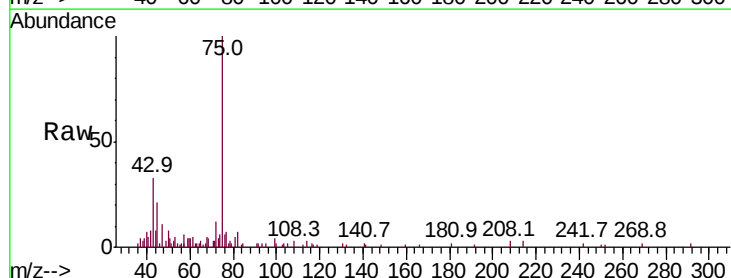
Acq: 15 Sep 2020 22:34

Tgt Ion: 43 Resp: 4979

Ion Ratio Lower Upper

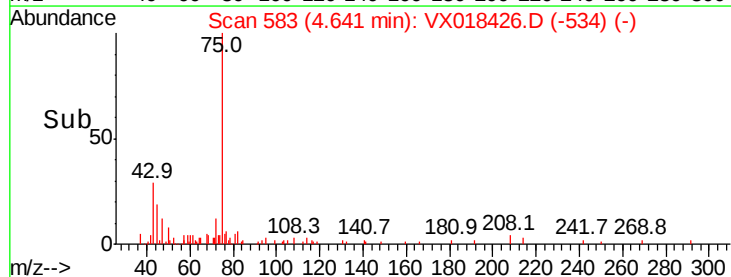
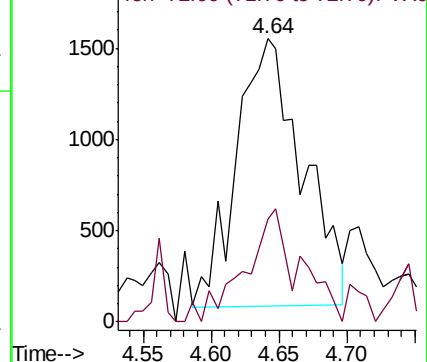
43 100

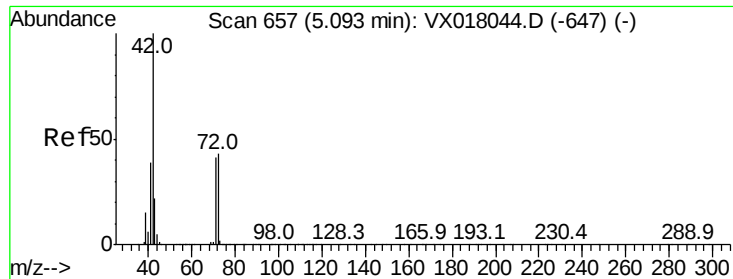
72 38.5 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

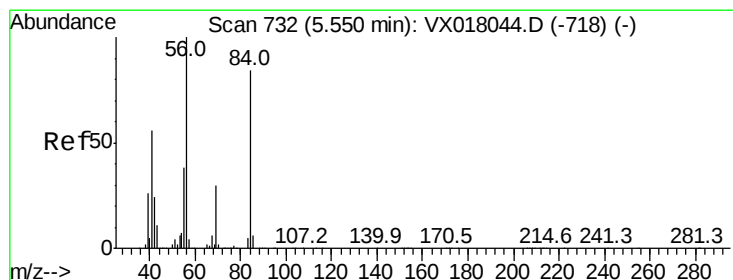
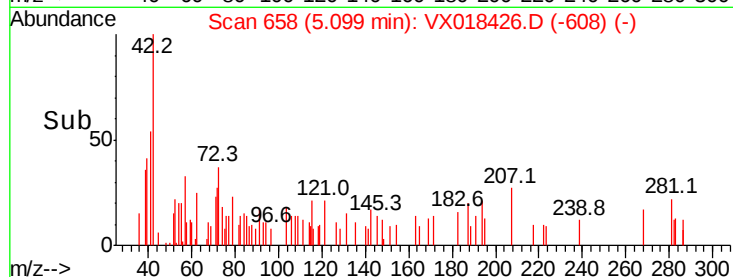
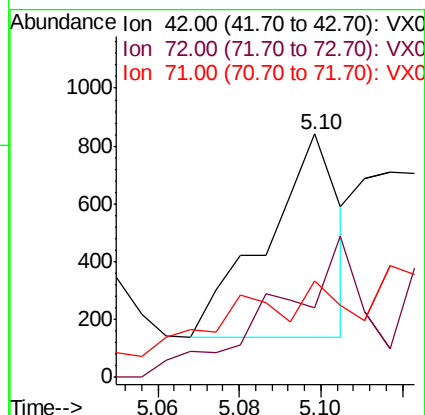
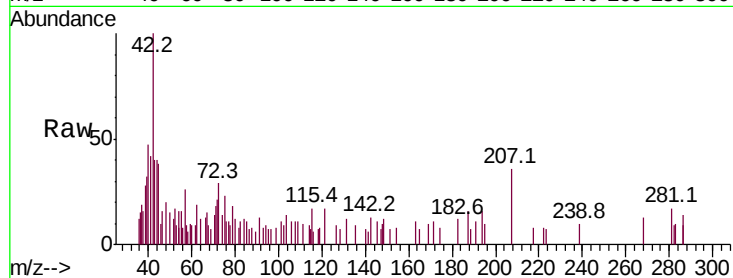




#29
Tetrahydrofuran
Concen: 0.361 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

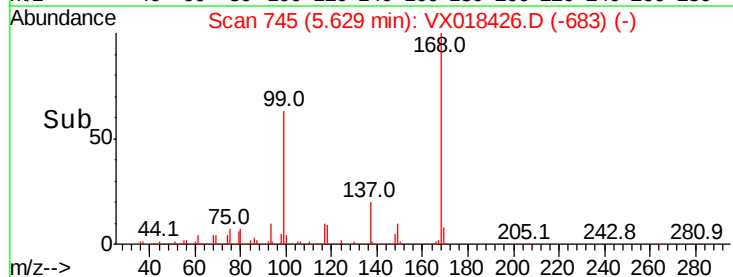
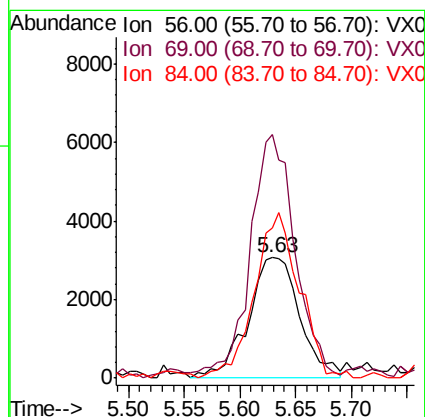
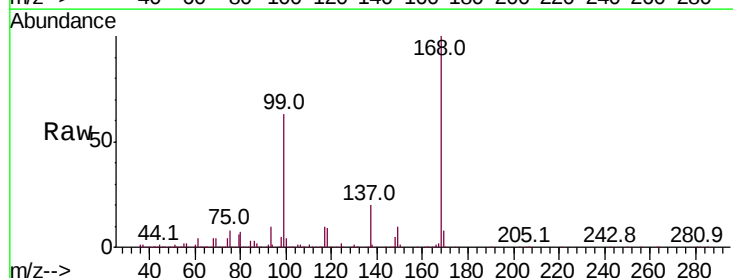
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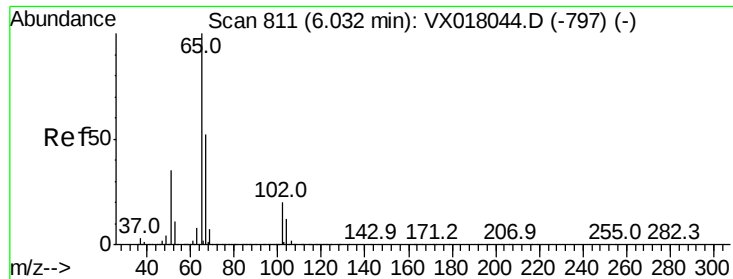
Tot Ion: 42 Resp: 865
Ion Ratio Lower Upper
42 100
72 82.9 34.2 51.4#
71 0.0 32.1 48.1#



#31
Cyclohexane
Concen: 1.417 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

Tgt Ion: 56 Resp: 9975
Ion Ratio Lower Upper
56 100
69 199.6 23.9 35.9#
84 122.0 67.0 100.4#





#33

1,2-Dichloroethane-d4

Concen: 55.033 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

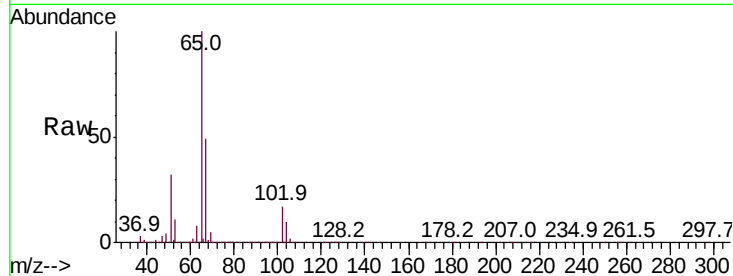
PAV-B40-091420-14-15

Tot Ion: 65 Resp: 323553

Ion Ratio Lower Upper

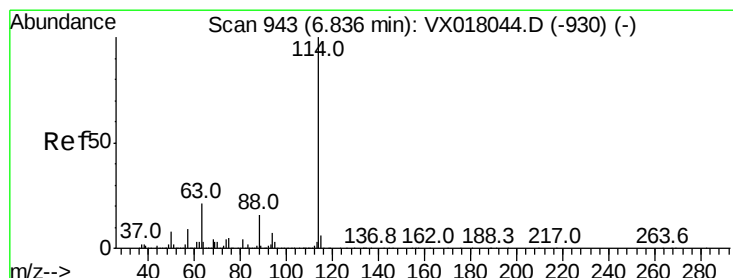
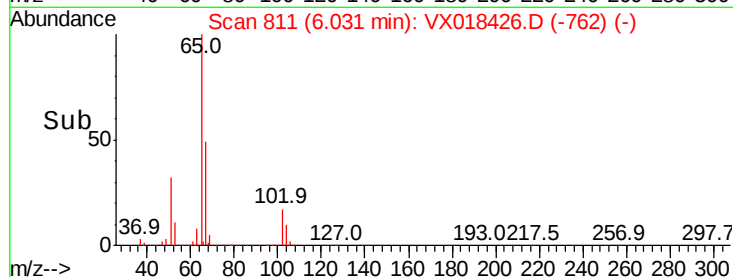
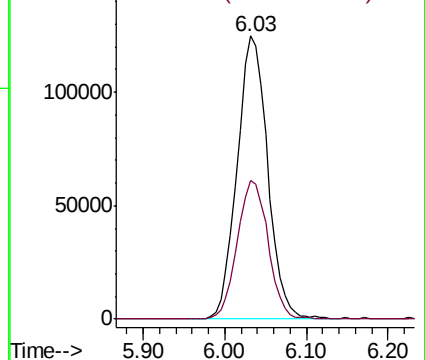
65 100

67 49.4 0.0 105.8



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: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

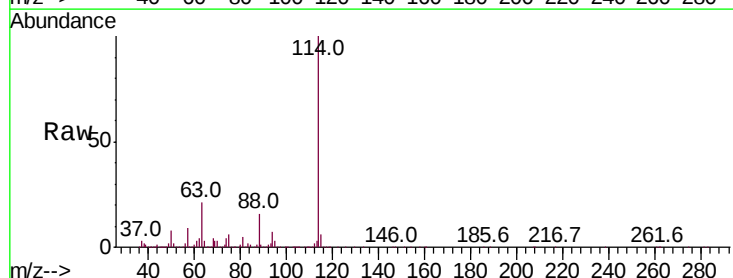
Tgt Ion: 114 Resp: 698783

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

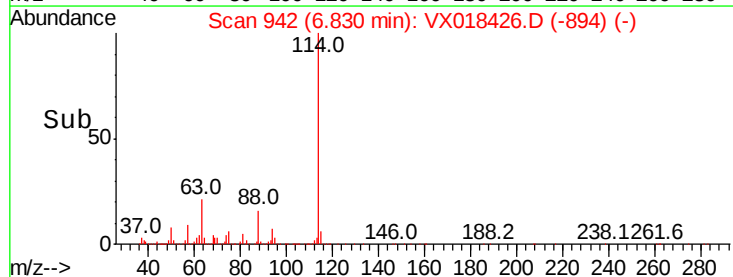
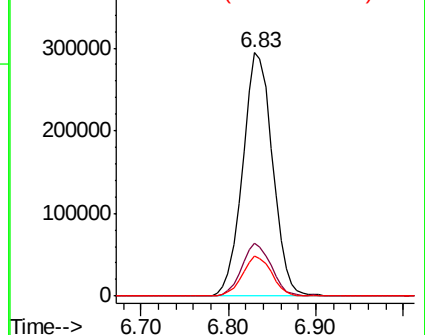
88 16.2 0.0 31.8

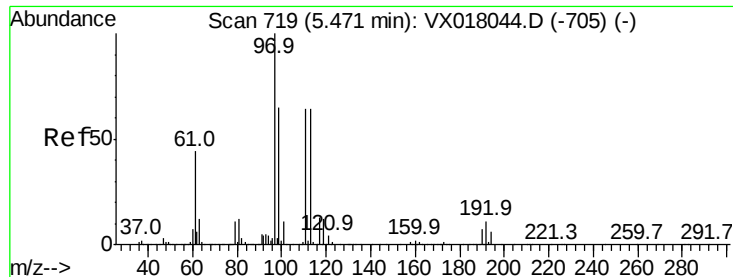


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.741 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

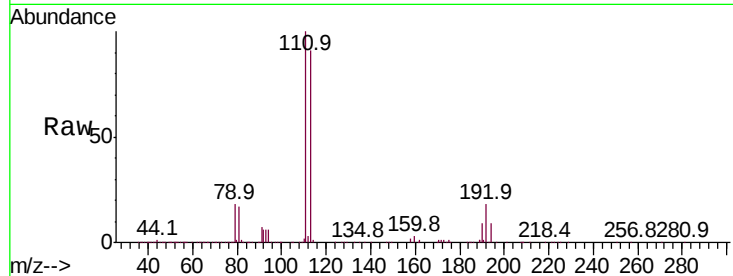
Tot Ion:113 Resp: 250999

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

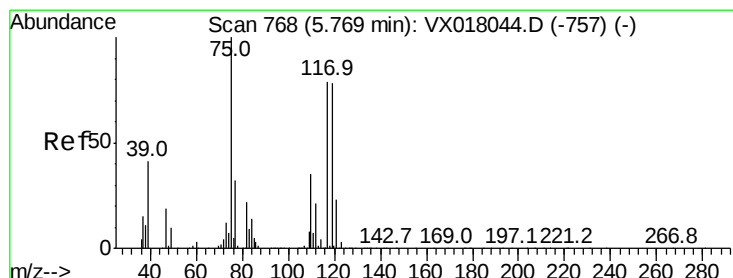
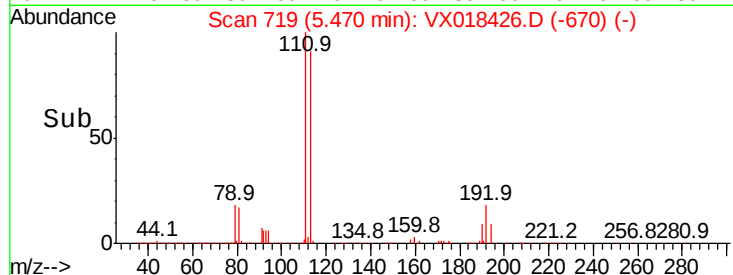
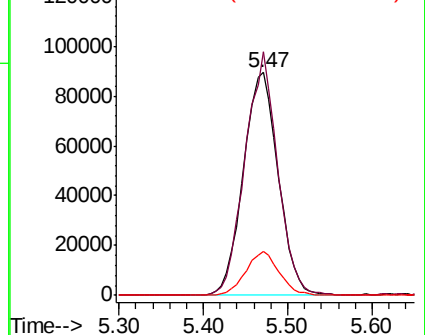
192 18.8 15.8 23.8



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: 5.233 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

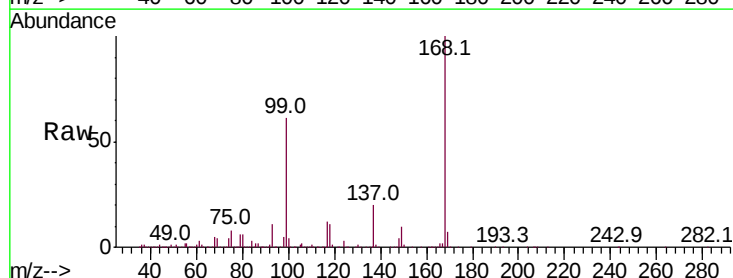
Tgt Ion: 75 Resp: 33725

Ion Ratio Lower Upper

75 100

110 10.7 18.0 54.0#

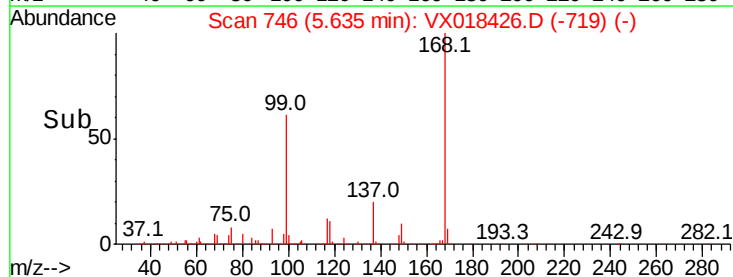
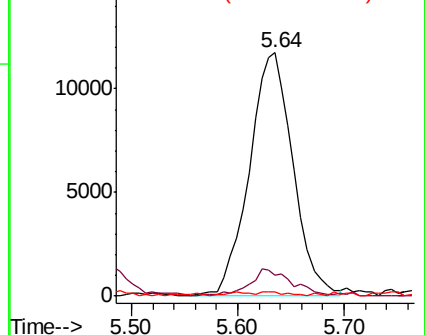
77 1.1 24.4 36.6#

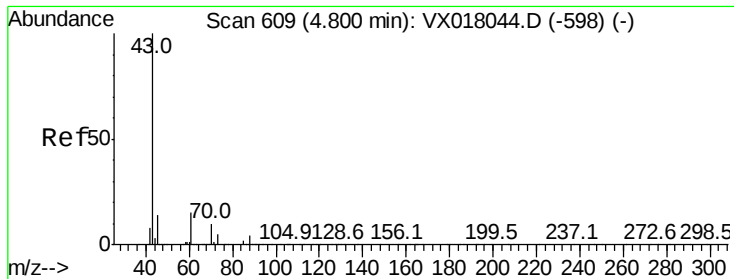


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.335 ug/l

RT: 4.78 min Scan# 605

Delta R.T. -0.02 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

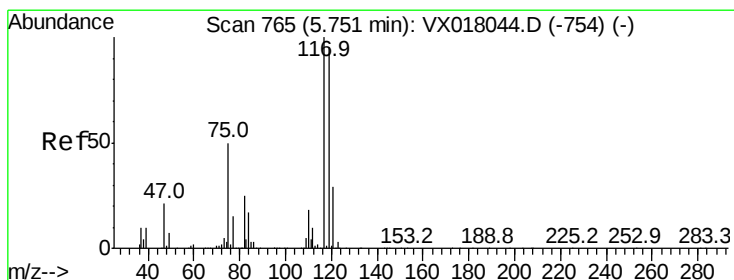
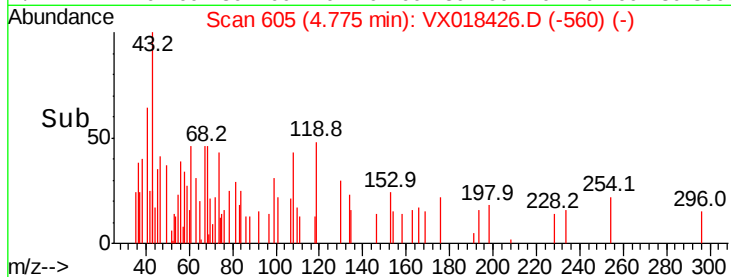
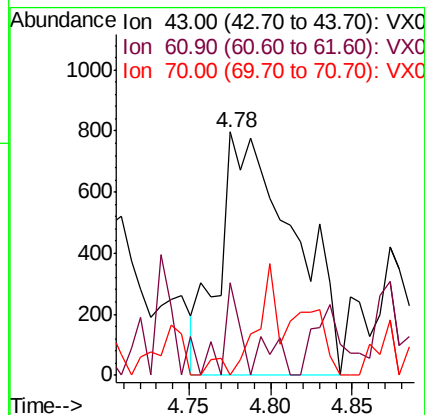
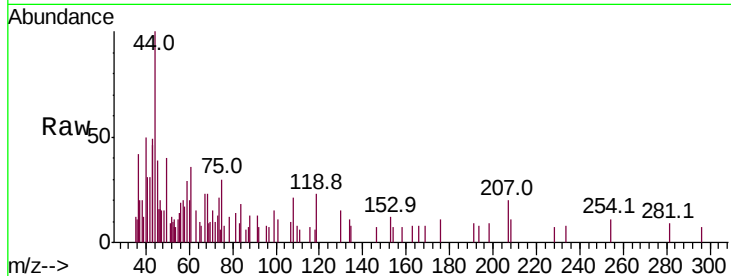
Tot Ion: 43 Resp: 2510

Ion Ratio Lower Upper

43 100

61 8.2 11.3 16.9#

70 1.5 8.2 12.4#



#38

Carbon Tetrachloride

Concen: 6.172 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

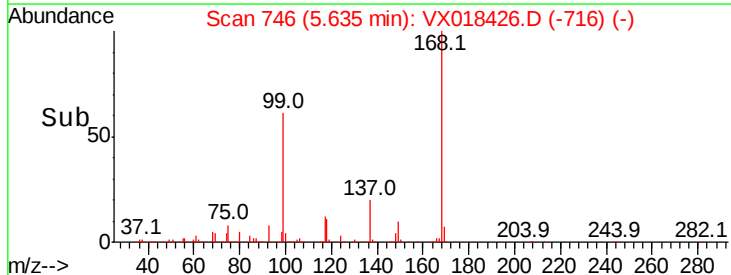
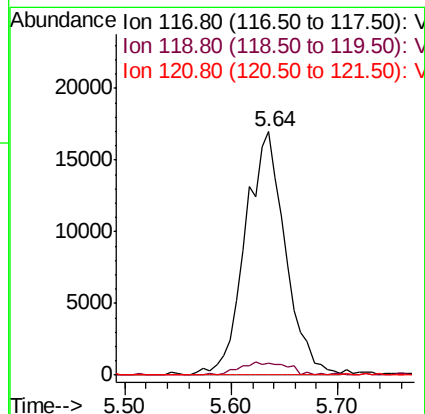
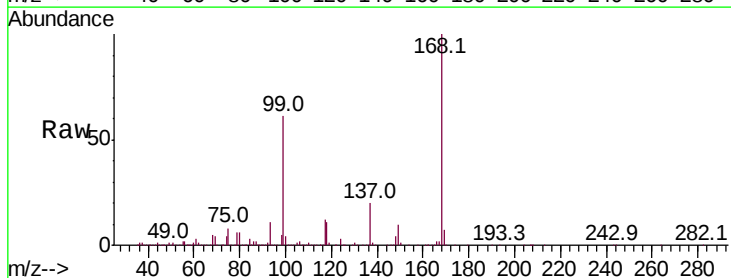
Tgt Ion: 117 Resp: 44827

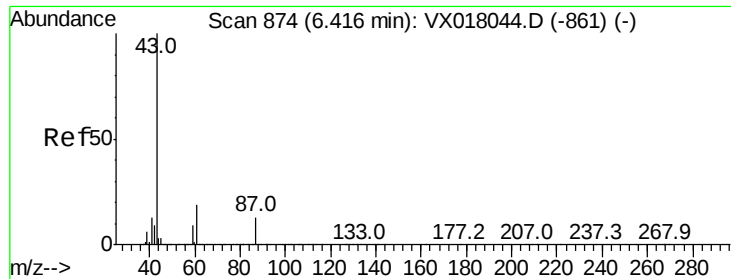
Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.6#

121 0.5 23.4 35.0#



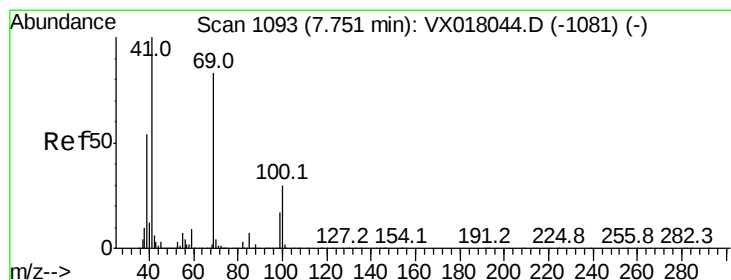
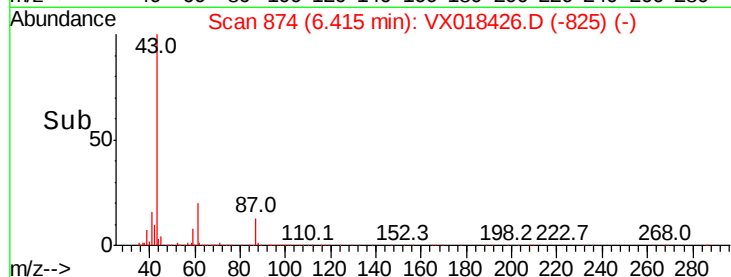
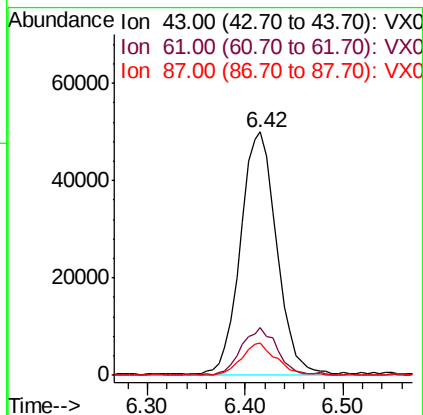
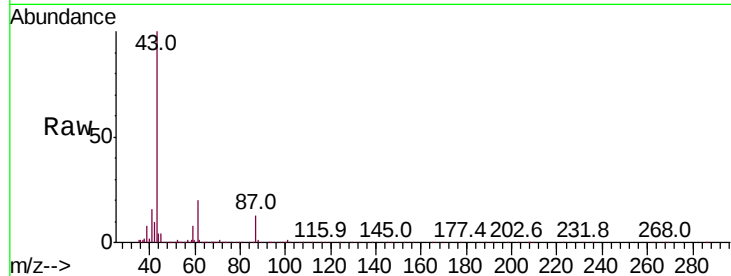


#43

Isopropyl Acetate
 Concen: 10.569 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX018426.D
 Acq: 15 Sep 2020 22:34

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B40-091420-14-15

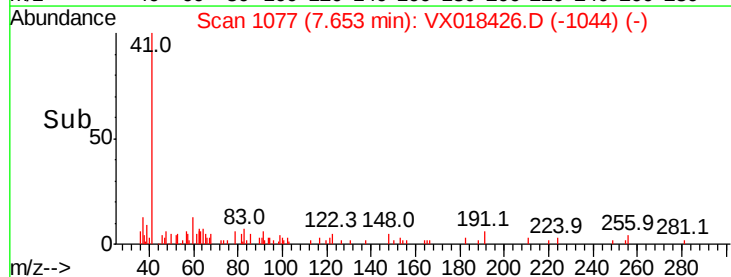
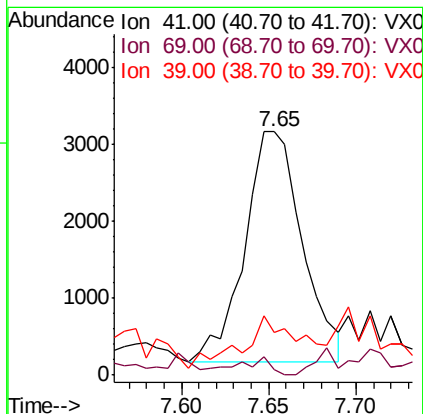
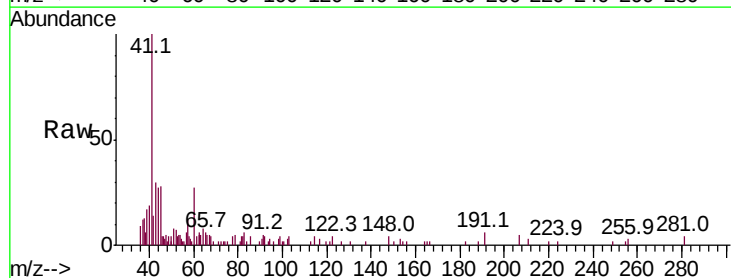
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.7	23.5
87	12.9	10.3	15.5

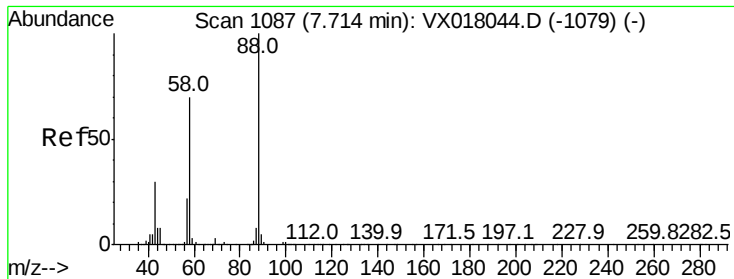


#48

Methyl methacrylate
 Concen: 1.143 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.10 min
 Lab File: VX018426.D
 Acq: 15 Sep 2020 22:34

Tgt Ion	Ratio	Lower	Upper
41	100		
69	4.2	65.5	98.3#
39	0.0	44.5	66.7#





#49

1,4-Dioxane

Concen: 0.376 ug/l

RT: 7.68 min Scan# 1082

Delta R.T. -0.03 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

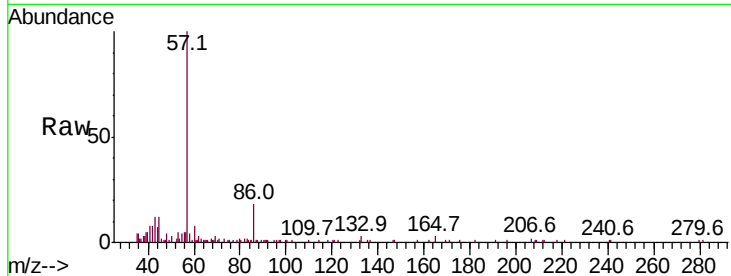
Tot Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

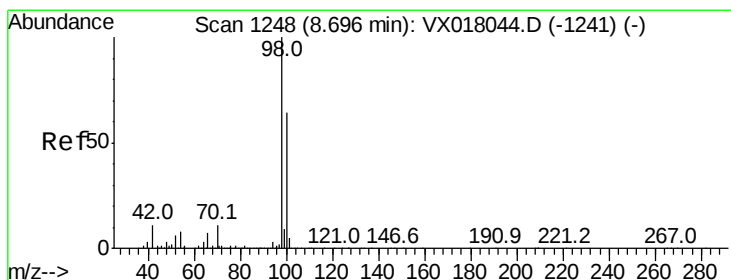
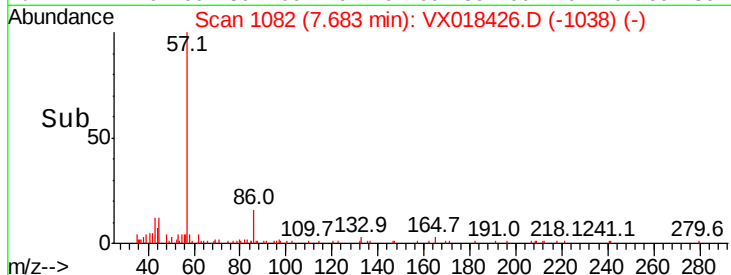
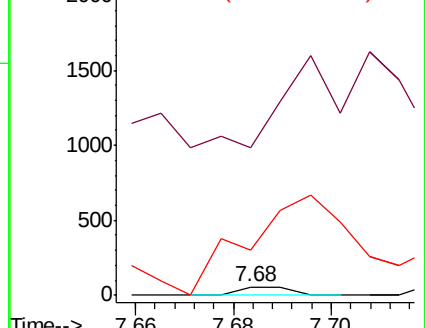
58 2543.9 56.4 84.6#



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: 50.159 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018426.D

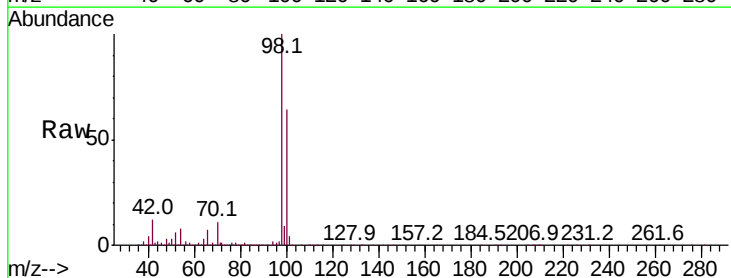
Acq: 15 Sep 2020 22:34

Tgt Ion: 98 Resp: 889084

Ion Ratio Lower Upper

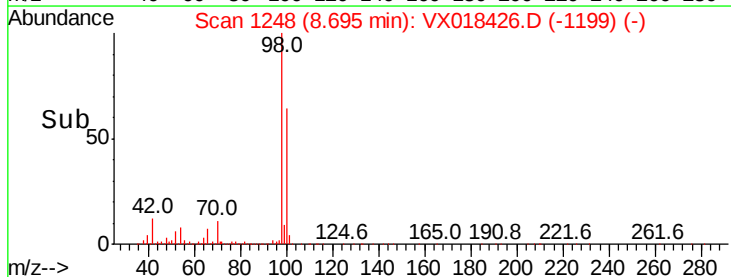
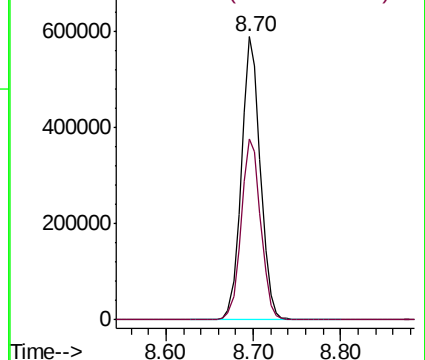
98 100

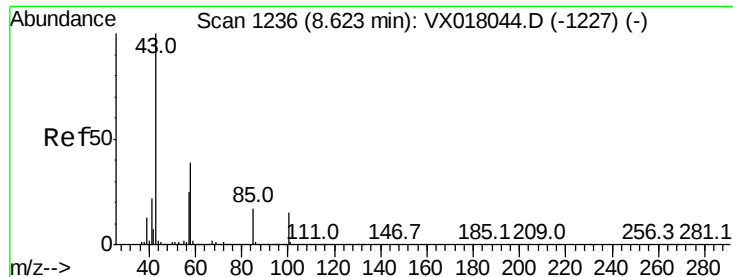
100 65.8 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 16.716 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

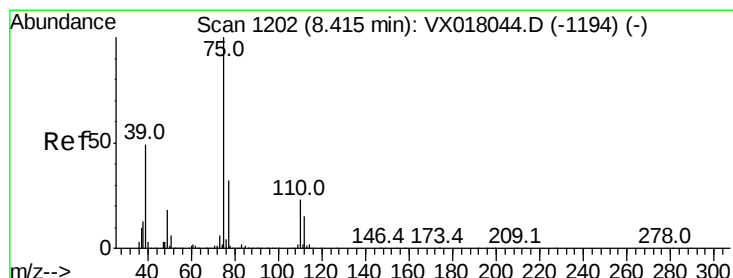
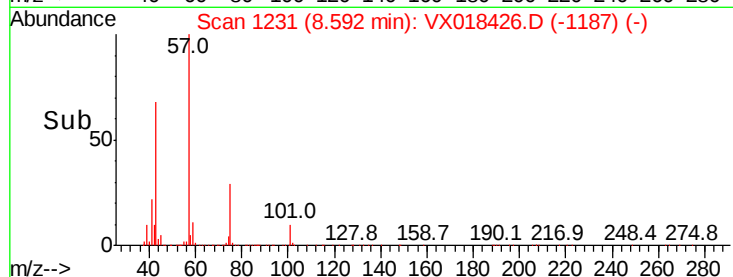
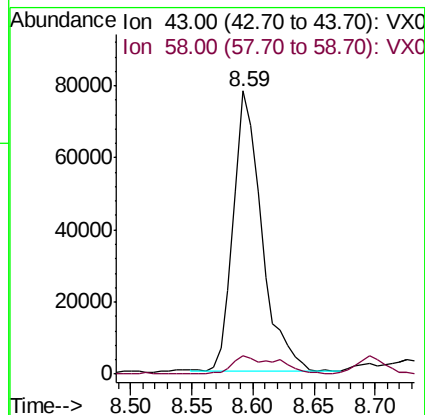
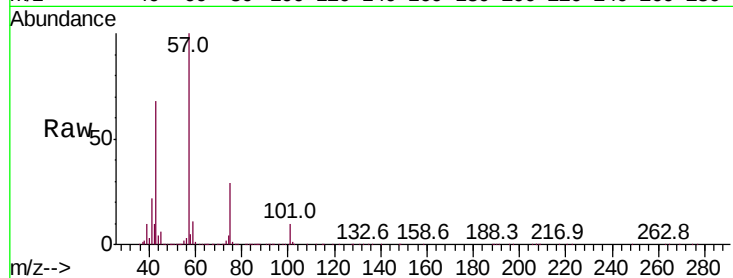
PAV-B40-091420-14-15

Tot Ion: 43 Resp: 124845

Ion Ratio Lower Upper

43 100

58 10.9 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 6.196 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

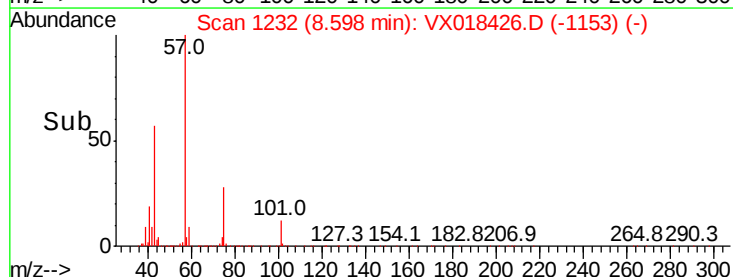
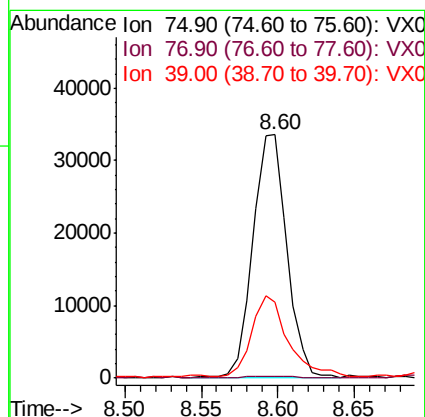
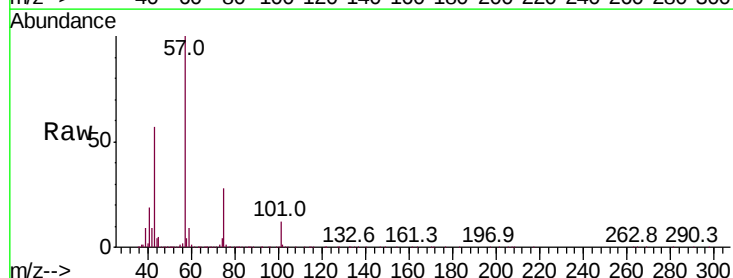
Tgt Ion: 75 Resp: 52136

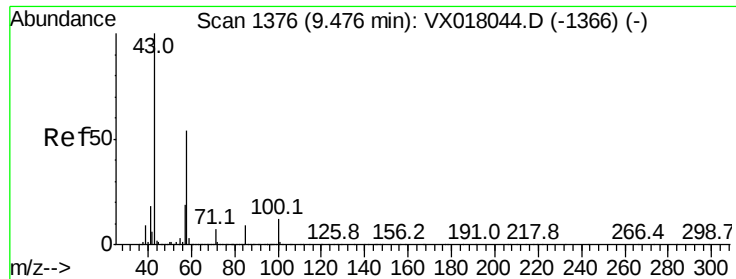
Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

39 29.8 38.8 58.2#

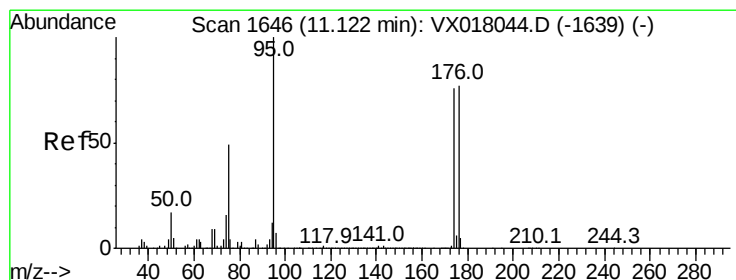
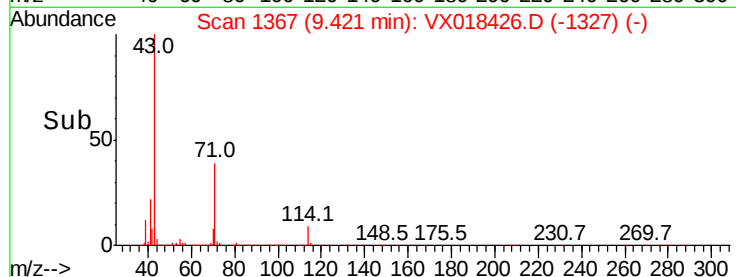
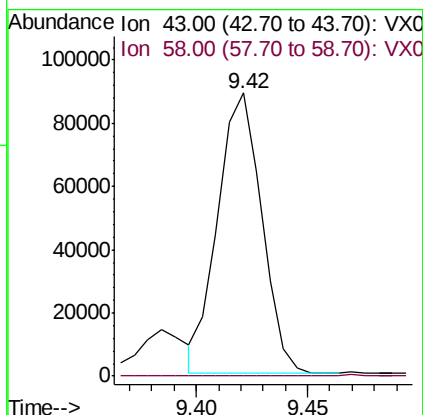
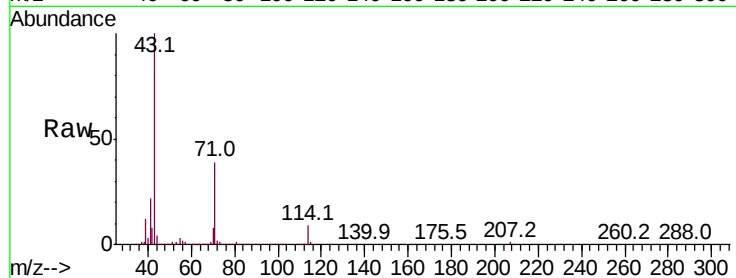




#59
2-Hexanone
Concen: 21.490 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.06 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

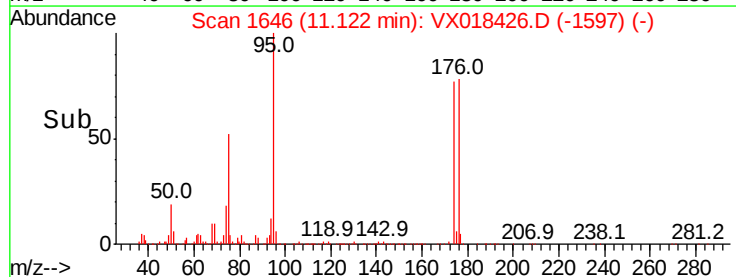
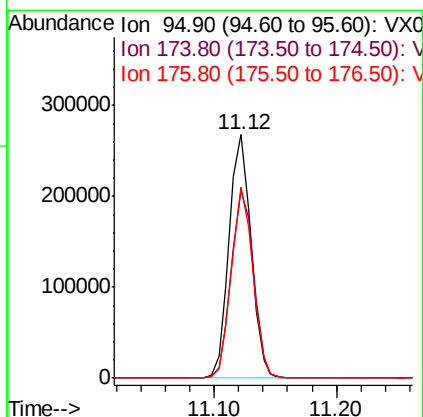
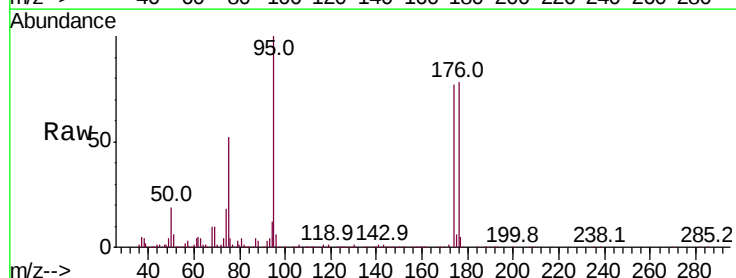
Instrument :
MSVOA_X
ClientSampleId :
PAV-B40-091420-14-15

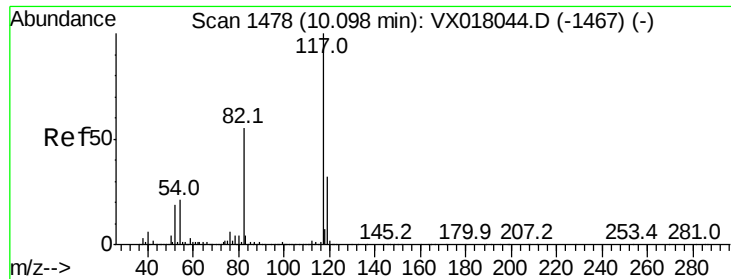
Tot Ion: 43 Resp: 122042
Ion Ratio Lower Upper
43 100
58 0.0 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 47.488 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

Tgt Ion: 95 Resp: 331178
Ion Ratio Lower Upper
95 100
174 78.8 0.0 160.2
176 77.1 0.0 155.8

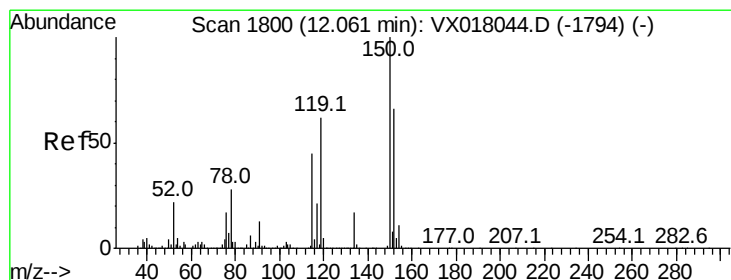
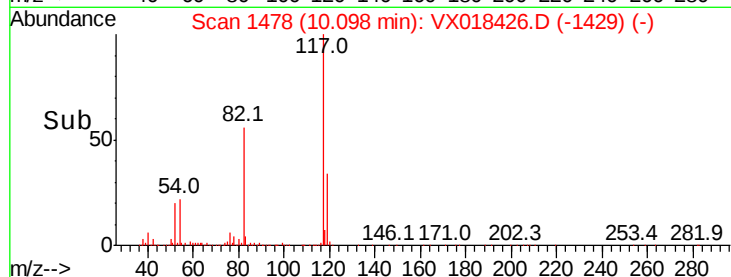
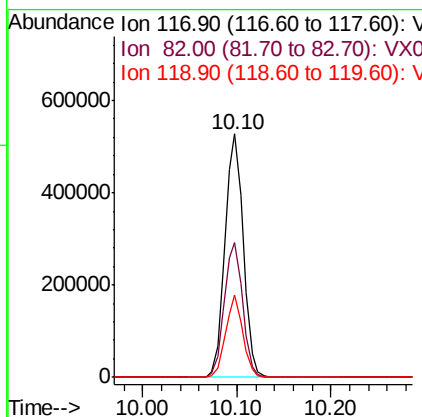
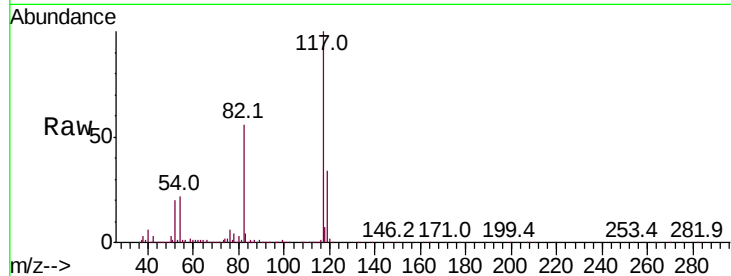




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

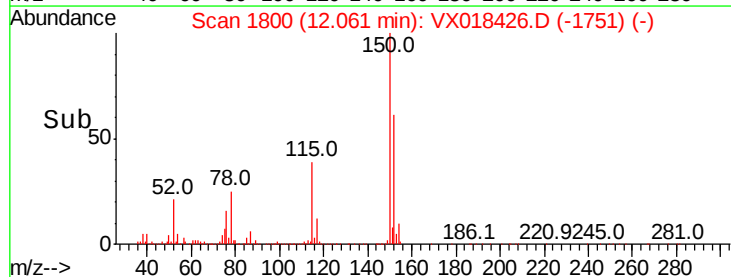
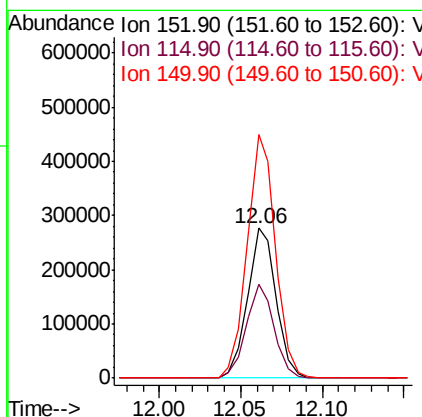
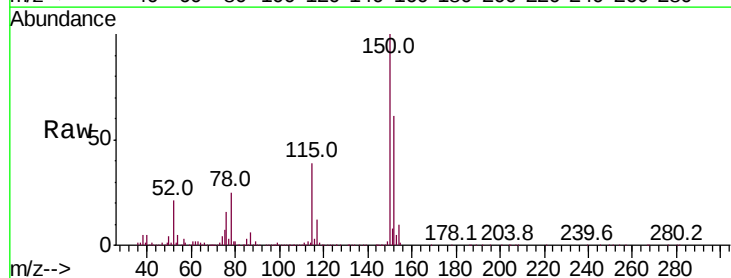
Instrument :
MSVOA_X
ClientSampleId :
PAV-B40-091420-14-15

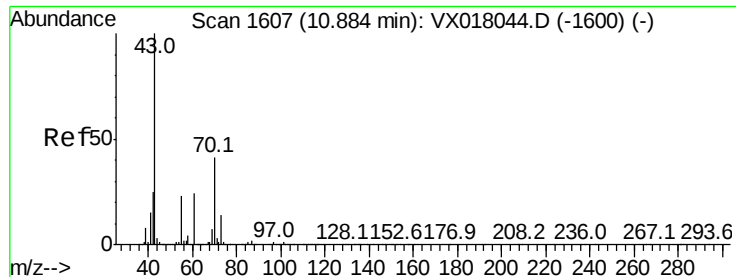
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.2	66.2
119	33.7	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018426.D
Acq: 15 Sep 2020 22:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.2	41.5	124.5
150	161.0	0.0	343.8





#74

N-amvl acetate

Concen: 0.429 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

Tot Ion: 43 Resp: 4533

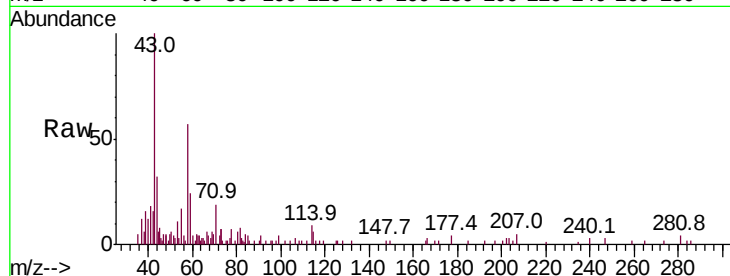
Ion Ratio Lower Upper

43 100

70 4.9 32.3 48.5#

55 16.7 18.2 27.2#

61 0.0 18.9 28.3#

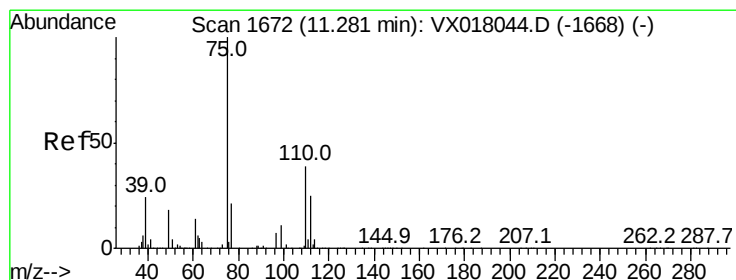
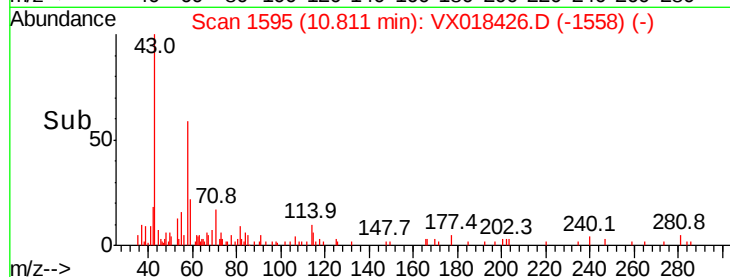
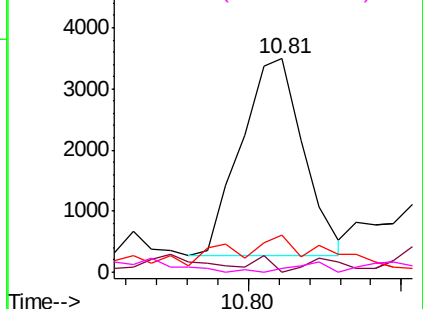


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.035 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018426.D

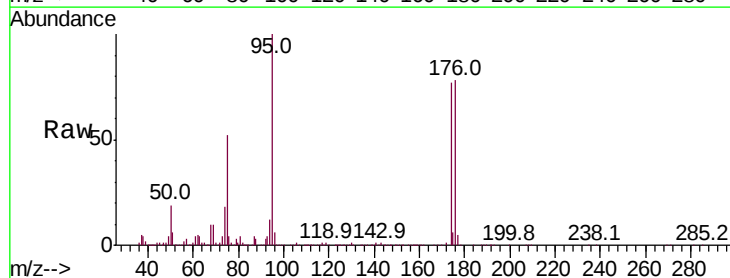
Acq: 15 Sep 2020 22:34

Tgt Ion: 75 Resp: 173168

Ion Ratio Lower Upper

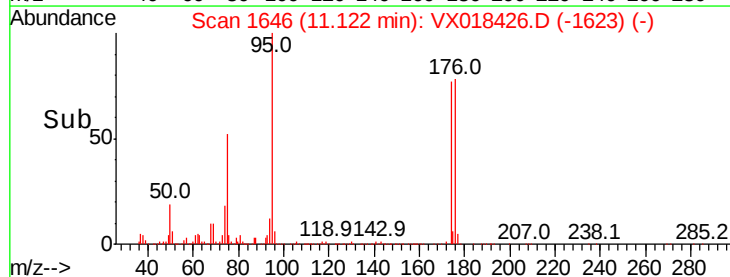
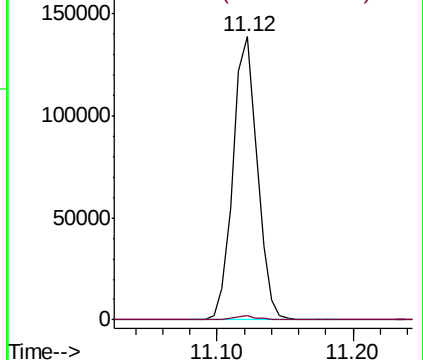
75 100

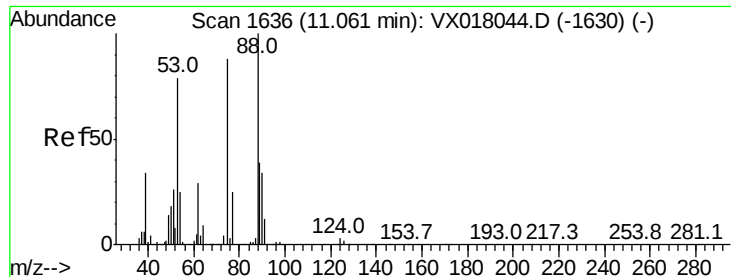
77 1.6 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.215 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018426.D

Acq: 15 Sep 2020 22:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B40-091420-14-15

Tot Ion: 75 Resp: 173168

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.1 36.6 54.8#

