

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113020\
 Data File : VX019681.D
 Acq On : 30 Nov 2020 15:34
 Operator : JC/MD
 Sample : L4900-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B2-112520-12-12.75

Quant Time: Dec 01 02:41:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	295564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	492001	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	428973	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	169393	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	186612	48.70	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.40%	
35) Dibromofluoromethane		5.46	113	148997	48.25	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.50%	
50) Toluene-d8		8.70	98	594134	49.51	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.02%	
62) 4-Bromofluorobenzene		11.12	95	195201	45.21	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.42%	

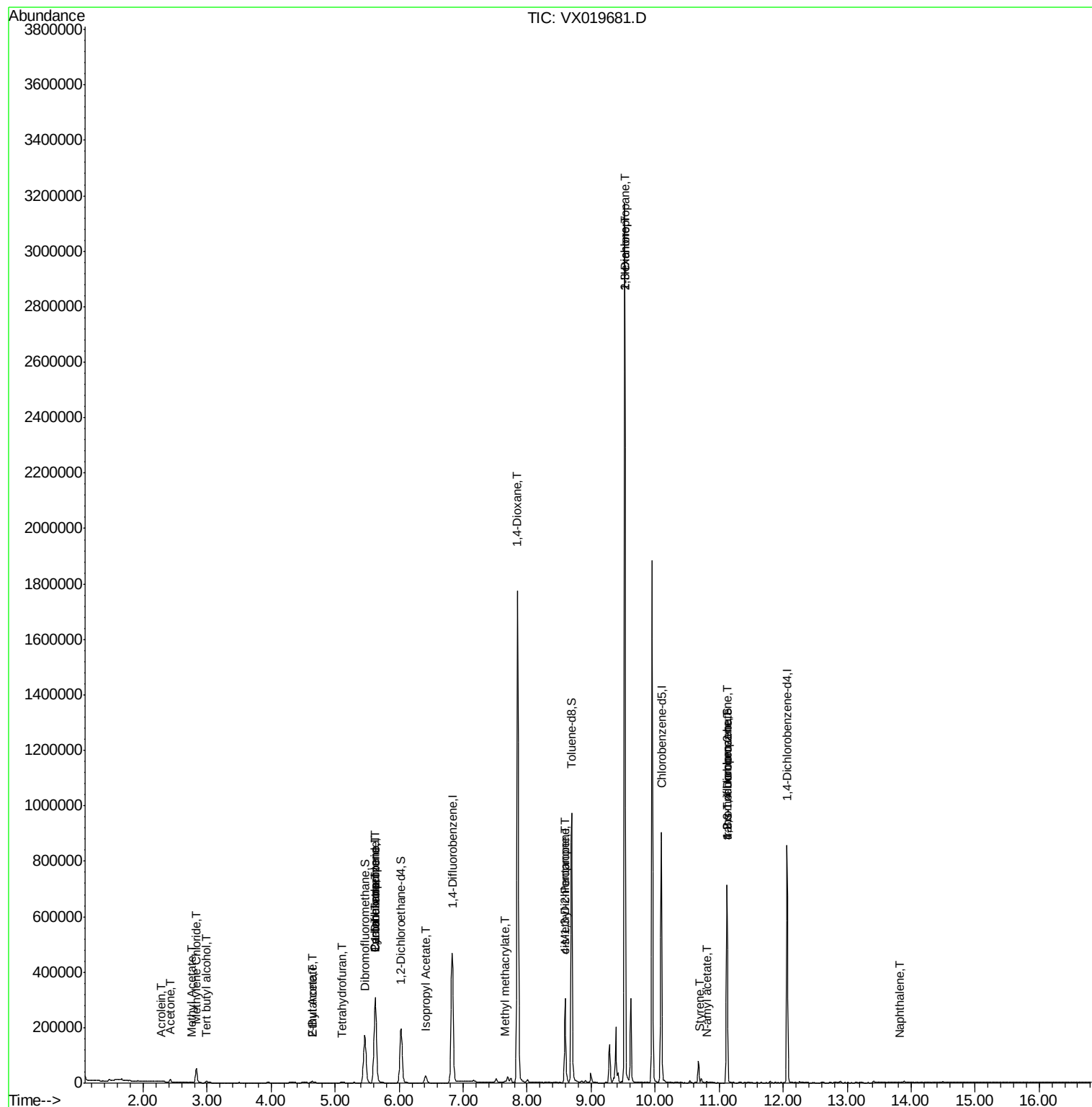
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.69	64	785	Below Cal	#	50
11) Tert butyl alcohol	3.00	59	4962	6.842	ug/l #	73
13) Acrolein	2.28	56	170	0.349	ug/l #	79
16) Acetone	2.42	43	12496	8.432	ug/l	100
18) Methyl Acetate	2.76	43	2764	1.386	ug/l	98
20) Methylene Chloride	2.83	84	24818	6.700	ug/l	97
25) 2-Butanone	4.65	43	8402	3.774	ug/l	99
29) Tetrahydrofuran	5.10	42	1857	1.307	ug/l #	68
31) Cyclohexane	5.62	56	5741	1.152	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22730	4.928	ug/l #	49
37) Ethyl Acetate	4.65	43	8402	1.940	ug/l #	65
38) Carbon Tetrachloride	5.63	117	28436	6.369	ug/l #	16
43) Isopropyl Acetate	6.42	43	32680	4.490	ug/l	99
48) Methyl methacrylate	7.65	41	7807	2.290	ug/l #	9
49) 1,4-Dioxane	7.85	88	265	3.424	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	97948	23.076	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	52570	9.466	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	28082	4.750	ug/l #	44
59) 2-Hexanone	9.52	43	329638	102.396	ug/l #	48
70) Styrene	10.70	104	120	1.657	ug/l #	56
74) N-amyl acetate	10.80	43	1860	0.424	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	94238	25.492	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	94238	67.257	ug/l #	12
95) Naphthalene	13.82	128	432	2.211	ug/l #	69

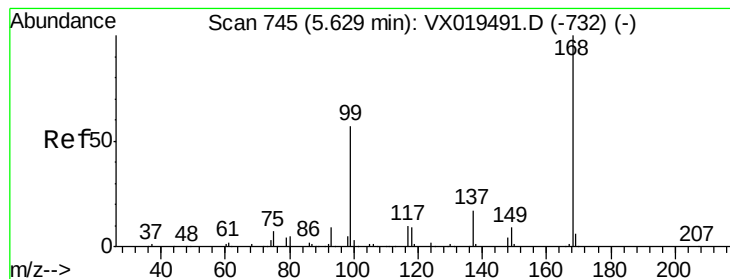
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

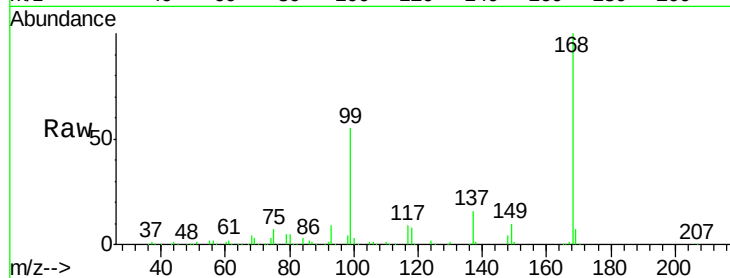
PAV-B2-112520-12-12.75

Tot Ion:168 Resp: 295564

Ion Ratio Lower Upper

168 100

99 55.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

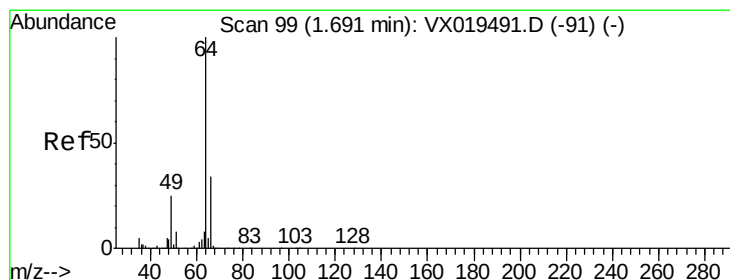
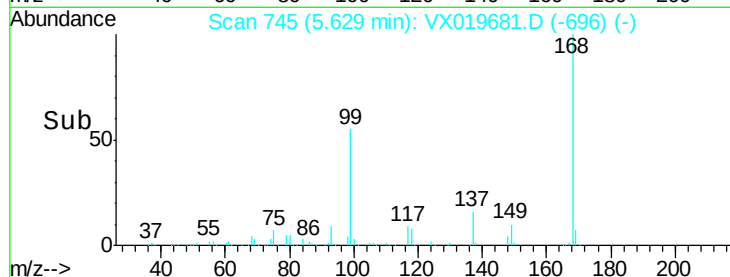
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX019681.D

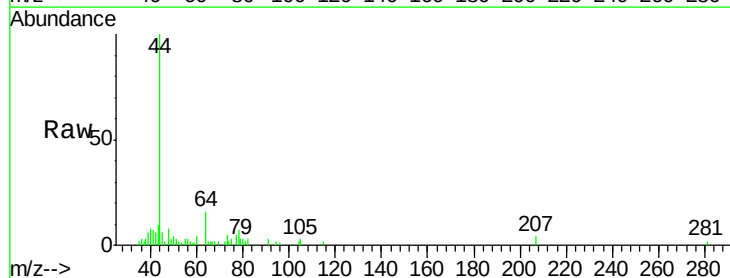
Acq: 30 Nov 2020 15:34

Tgt Ion: 64 Resp: 785

Ion Ratio Lower Upper

64 100

66 5.3 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

800

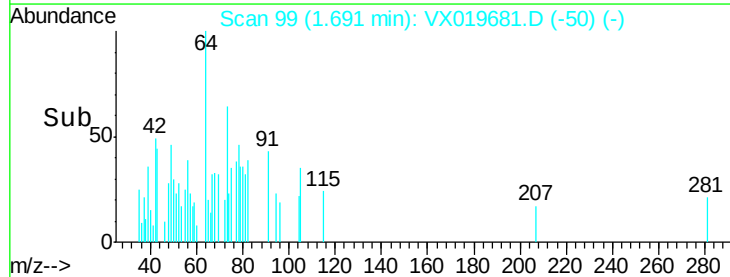
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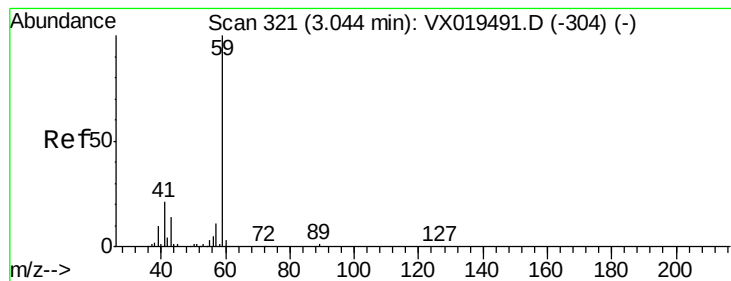
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 6.842 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

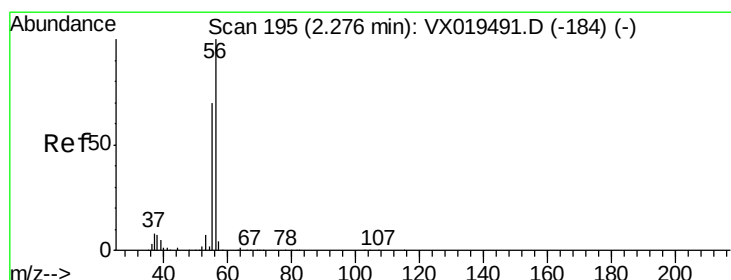
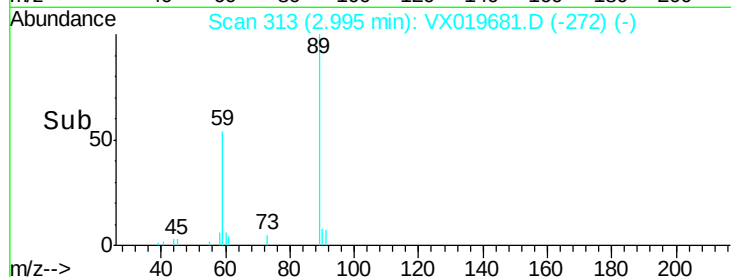
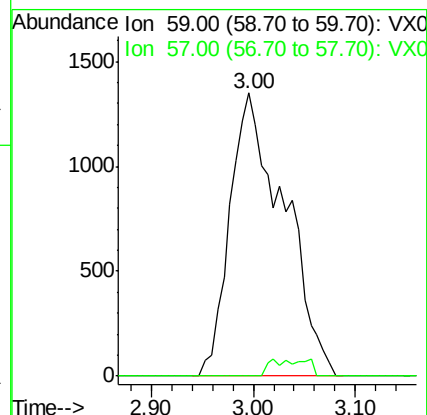
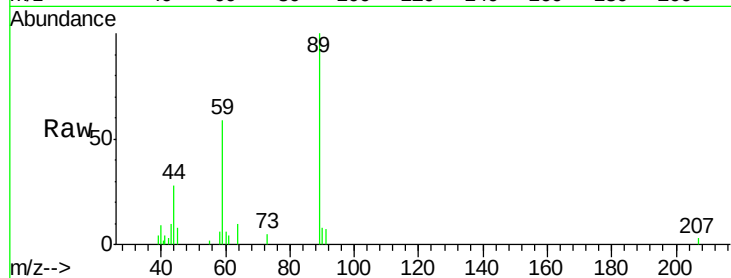
PAV-B2-112520-12-12.75

Tot Ion: 59 Resp: 4962

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



#13

Acrolein

Concen: 0.349 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019681.D

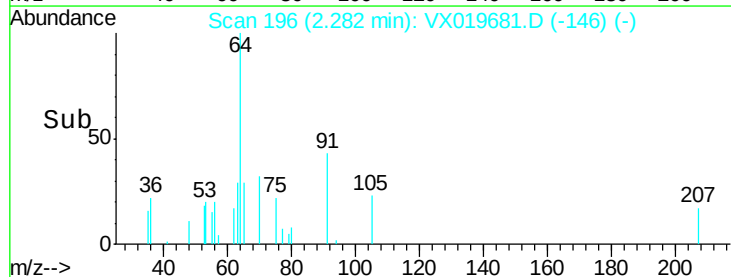
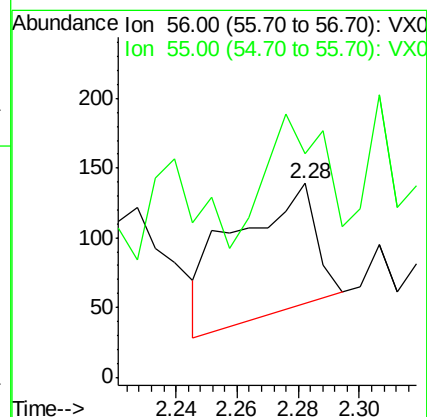
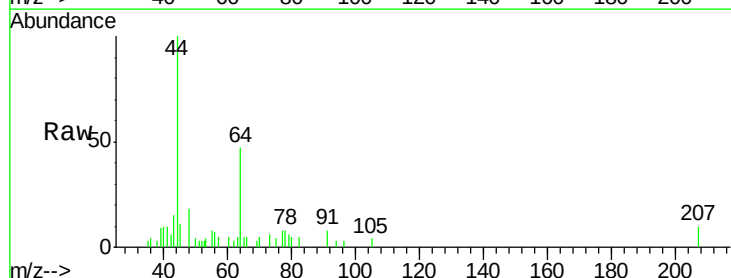
Acq: 30 Nov 2020 15:34

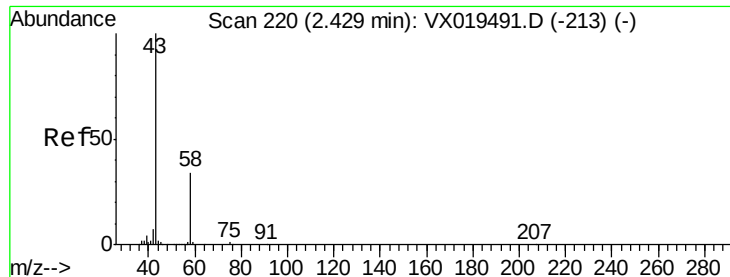
Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 86.5 55.5 83.3#





#16

Acetone

Concen: 8.432 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

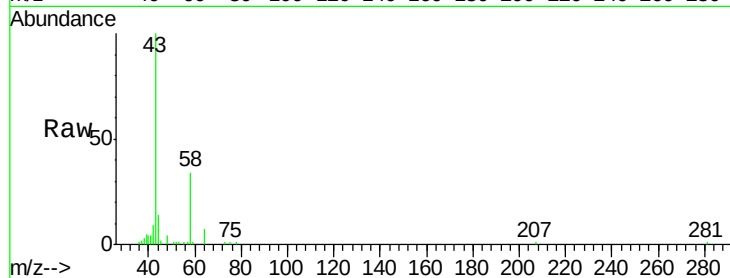
PAV-B2-112520-12-12.75

Tot Ion: 43 Resp: 12496

Ion Ratio Lower Upper

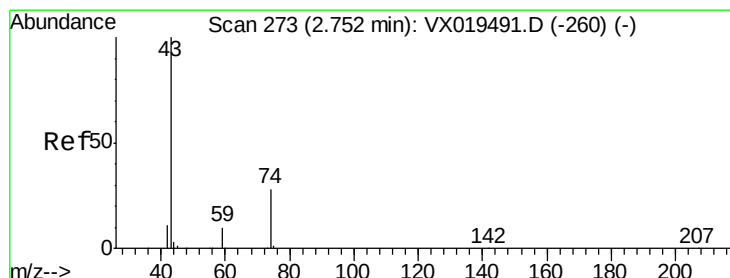
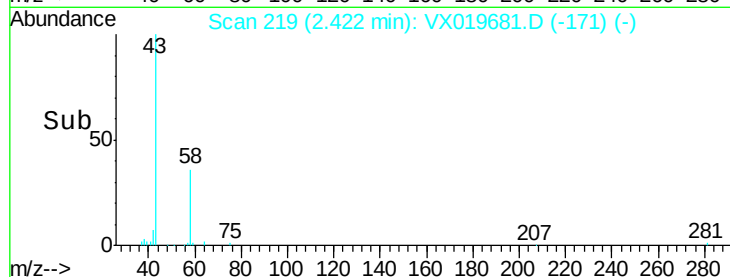
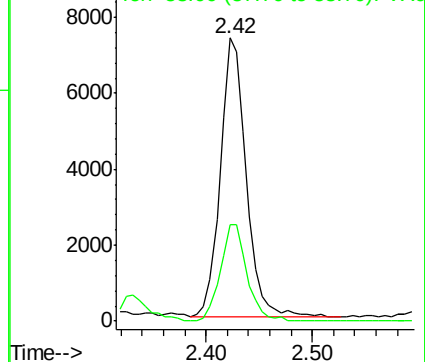
43 100

58 34.6 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.386 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX019681.D

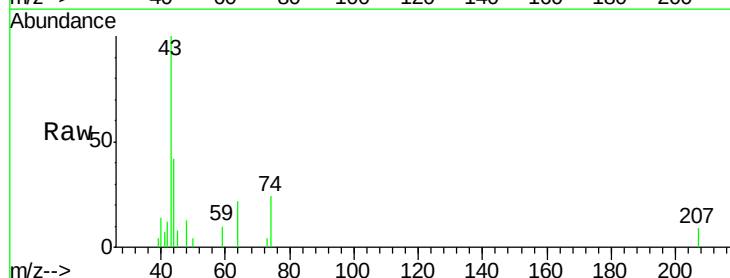
Acq: 30 Nov 2020 15:34

Tgt Ion: 43 Resp: 2764

Ion Ratio Lower Upper

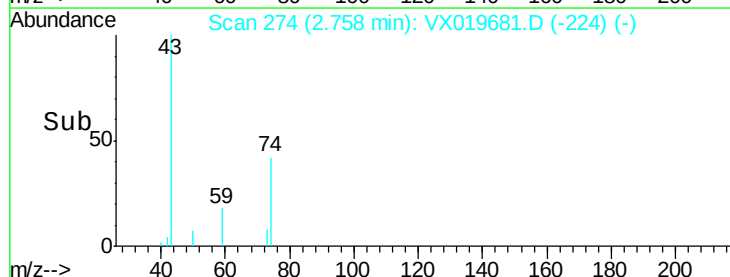
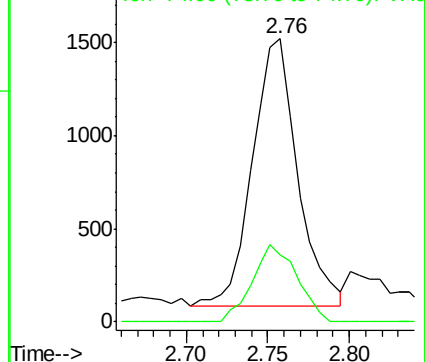
43 100

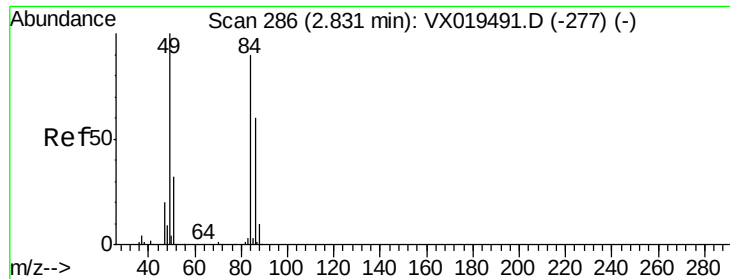
74 28.7 22.2 33.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

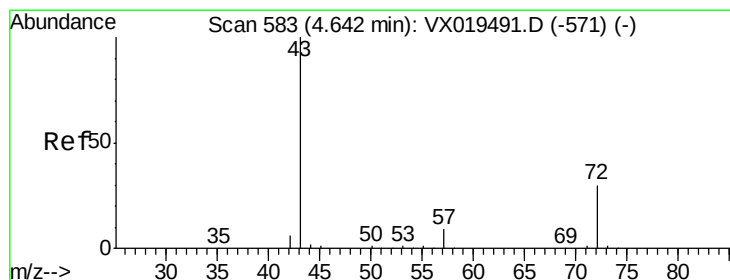
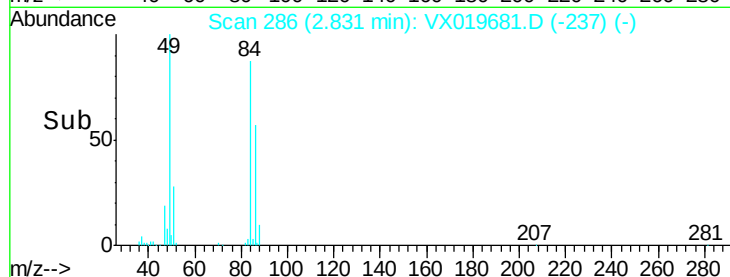
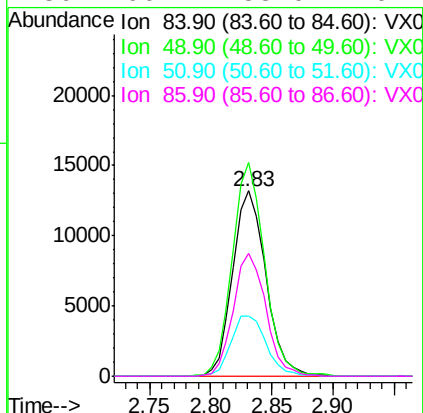
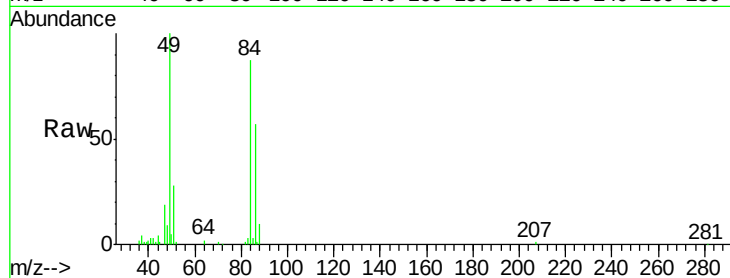




#20
Methvlene Chloride
Concen: 6.700 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

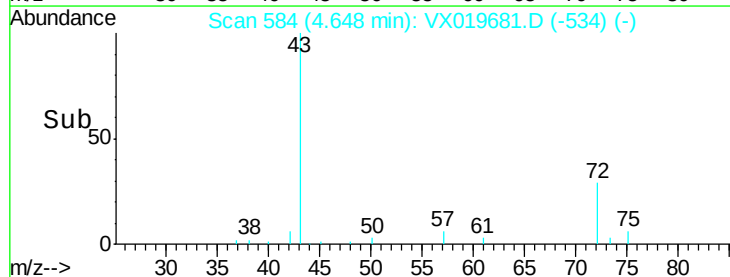
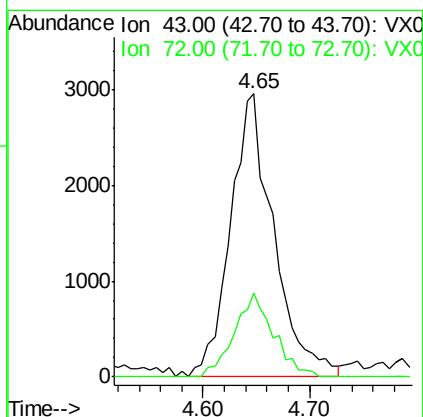
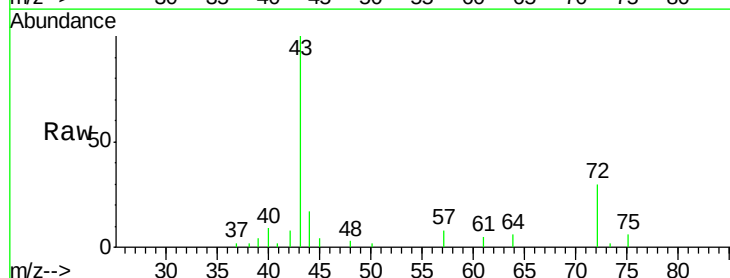
Instrument :
MSVOA_X
ClientSampleId :
PAV-B2-112520-12-12.75

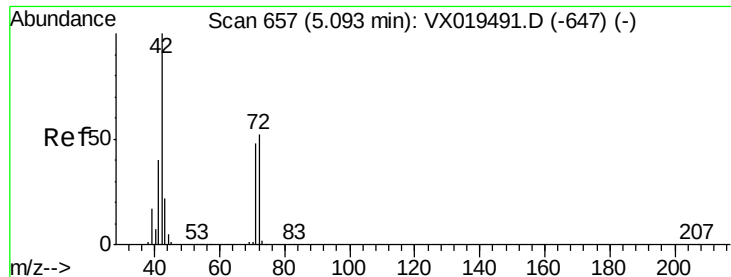
Tot Ion:	84	Resp:	24818
Ion	Ratio	Lower	Upper
84	100		
49	115.2	88.5	132.7
51	32.8	28.0	42.0
86	66.2	53.0	79.4



#25
2-Butanone
Concen: 3.774 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Tgt Ion:	43	Resp:	8402
Ion	Ratio	Lower	Upper
43	100		
72	29.5	24.0	36.0

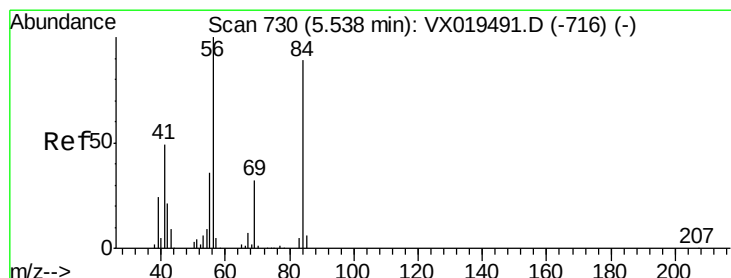
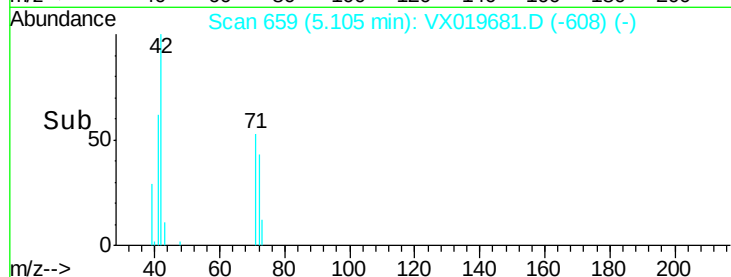
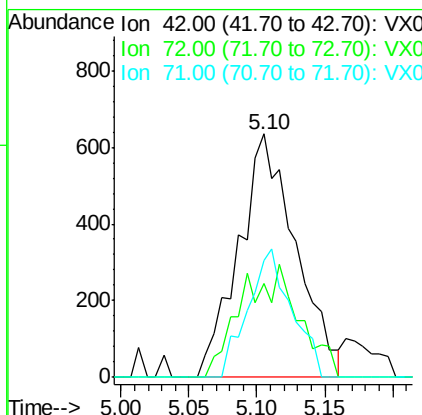
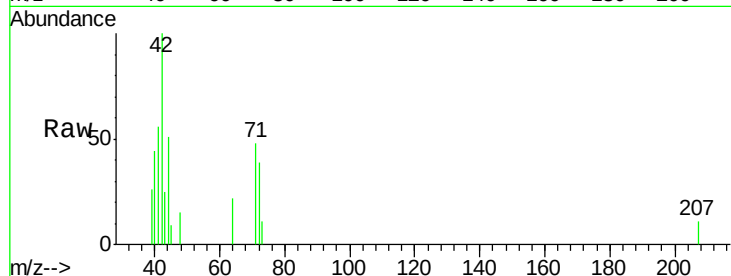




#29
Tetrahydrofuran
Concen: 1.307 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

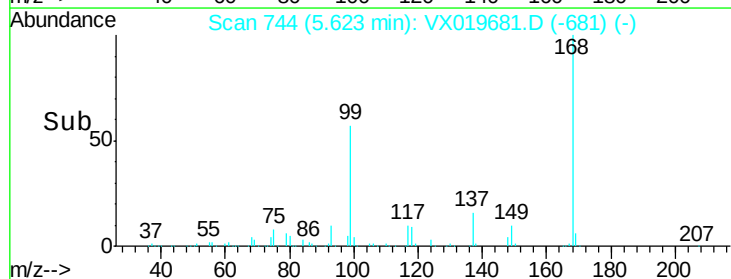
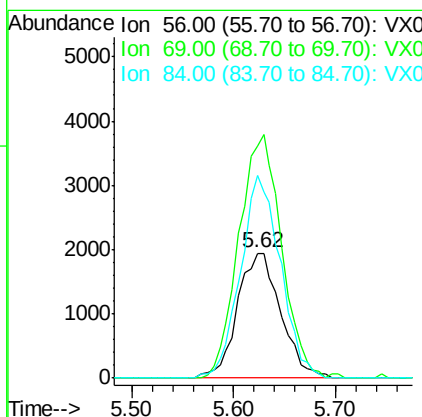
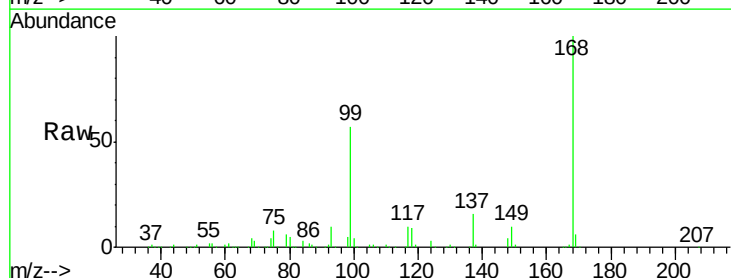
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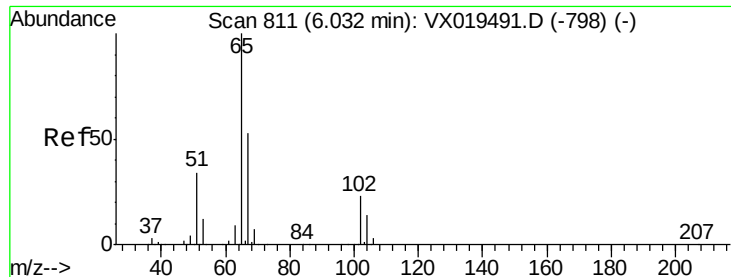
Tot Ion: 42 Resp: 1857
Ion Ratio Lower Upper
42 100
72 17.8 42.6 63.8#
71 40.3 39.0 58.6



#31
Cyclohexane
Concen: 1.152 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Tgt Ion: 56 Resp: 5741
Ion Ratio Lower Upper
56 100
69 185.5 25.5 38.3#
84 162.7 71.1 106.7#

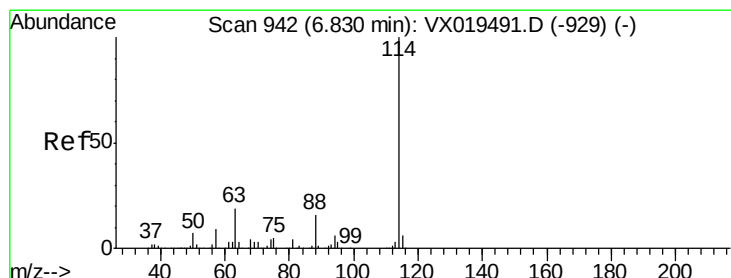
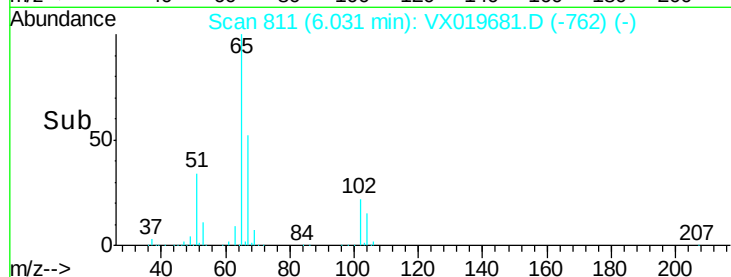
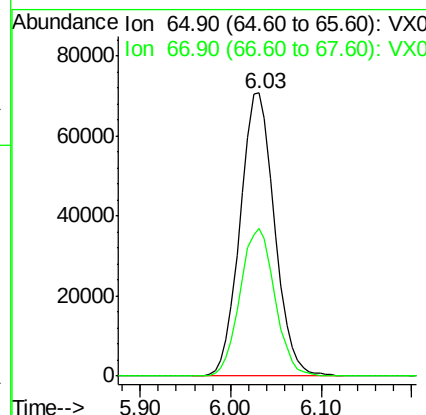
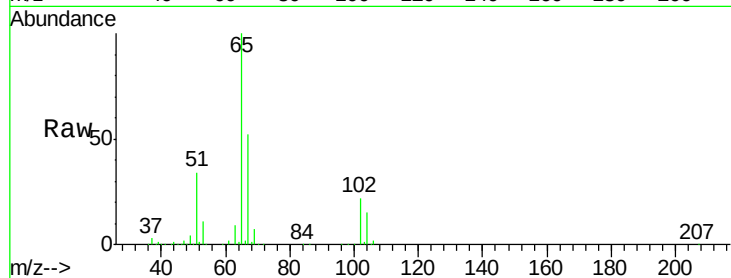




#33
 1,2-Dichloroethane-d4
 Concen: 48.695 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

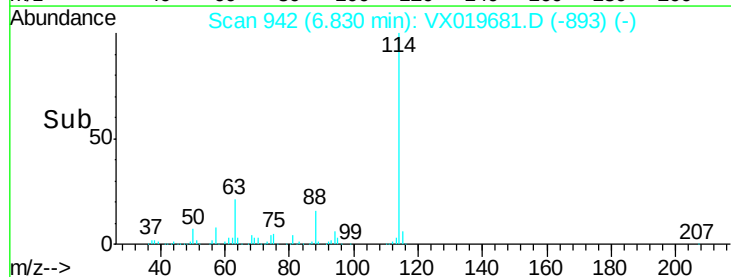
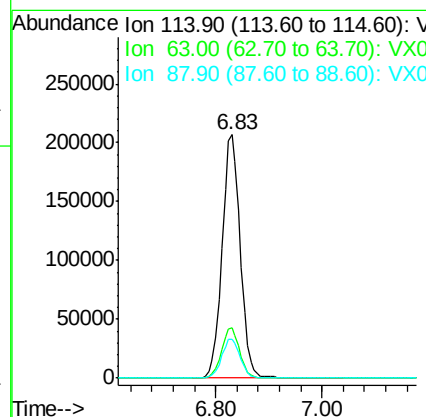
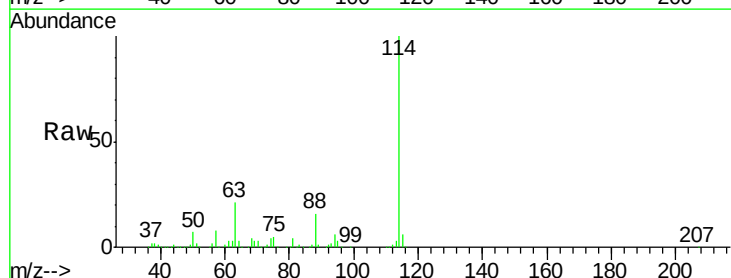
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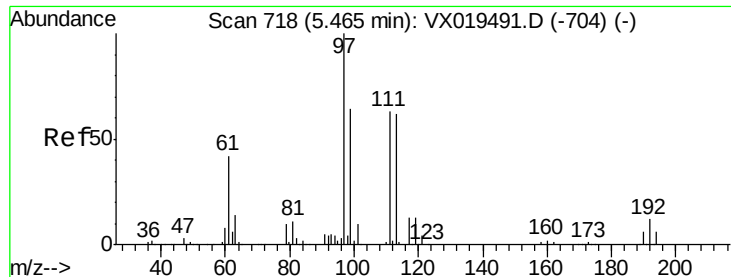
Tot Ion: 65 Resp: 186612
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

Tgt Ion: 114 Resp: 492001
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 38.8
 88 16.2 0.0 31.6

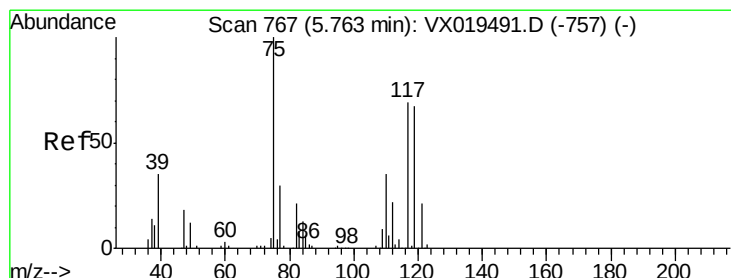
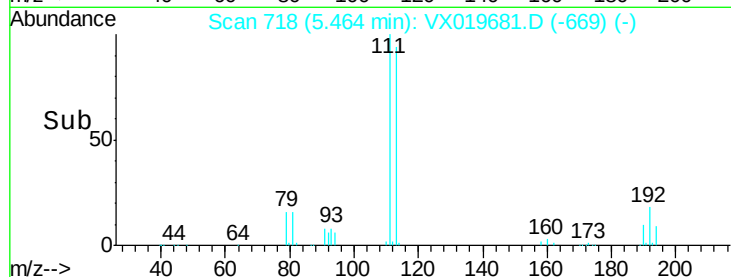
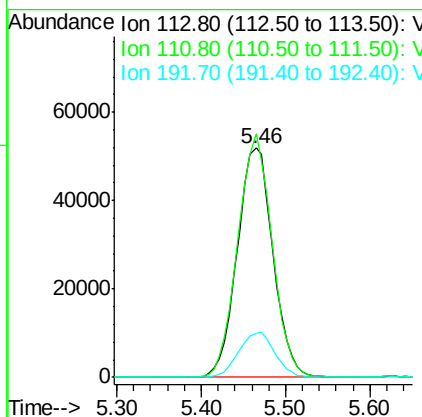
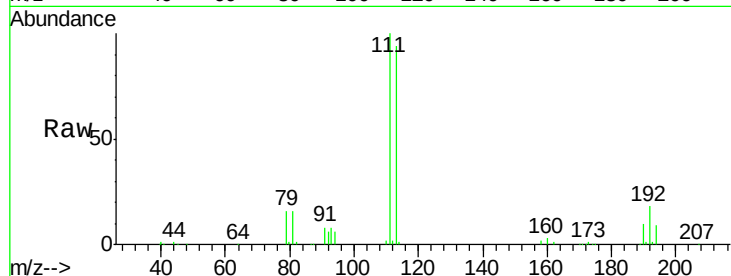




#35
 Dibromofluoromethane
 Concen: 48.246 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

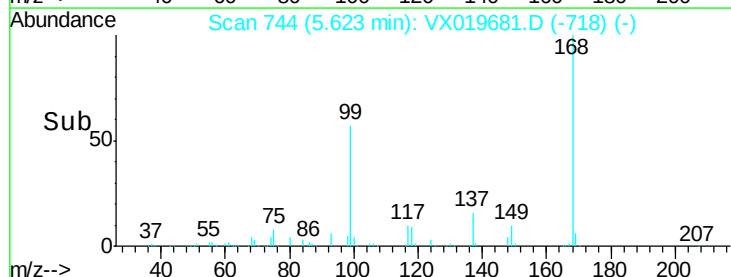
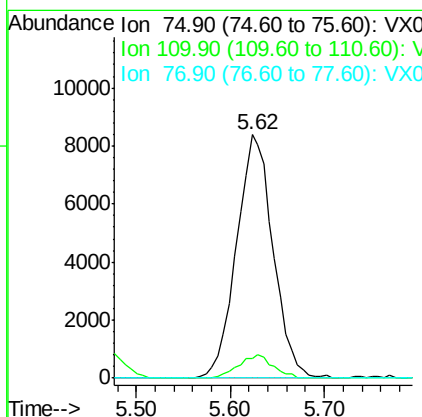
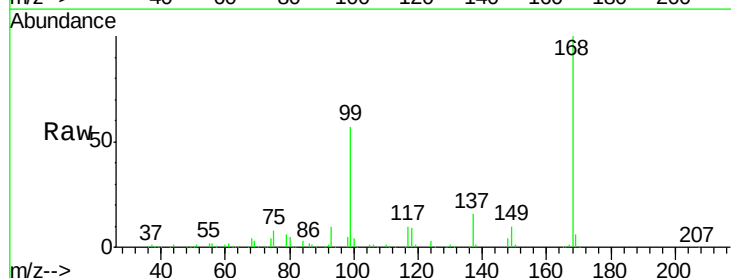
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 ClientSampleId :
 PAV-B2-112520-12-12.75

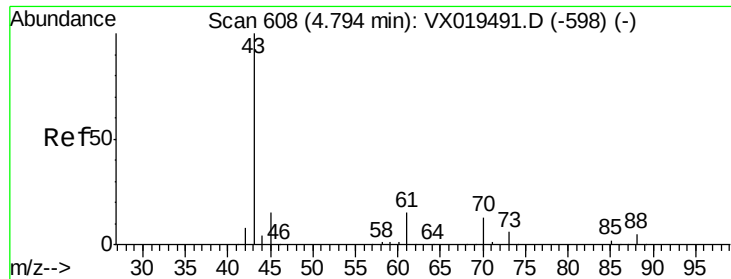
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.5	122.3
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.928 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.3#
77	0.0	24.2	36.4#

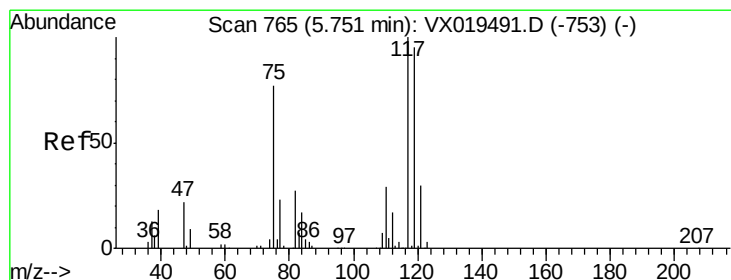
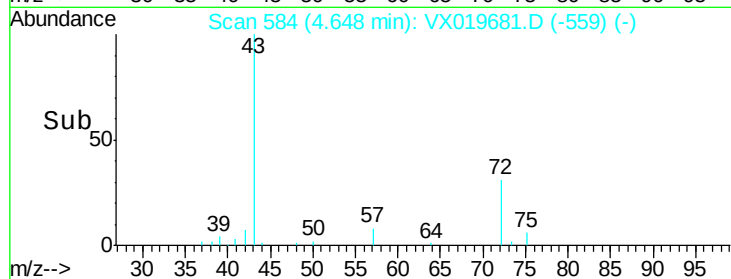
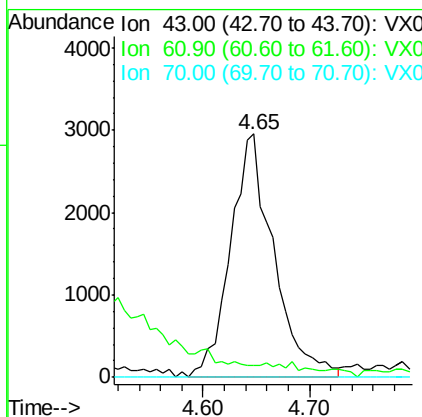
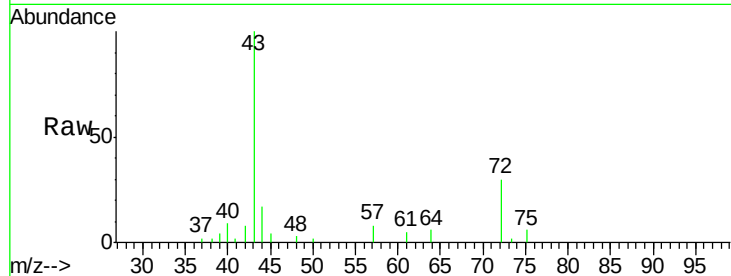




#37
Ethyl Acetate
Concen: 1.940 ug/l
RT: 4.65 min Scan# 584
Delta R.T. -0.15 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

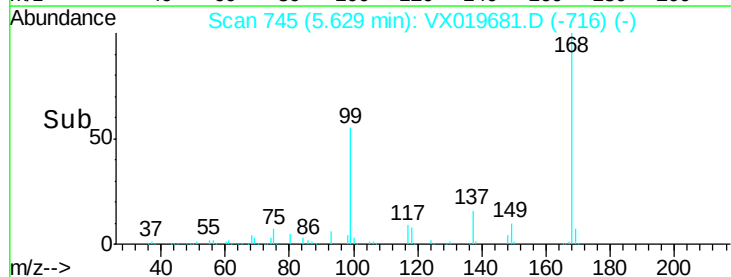
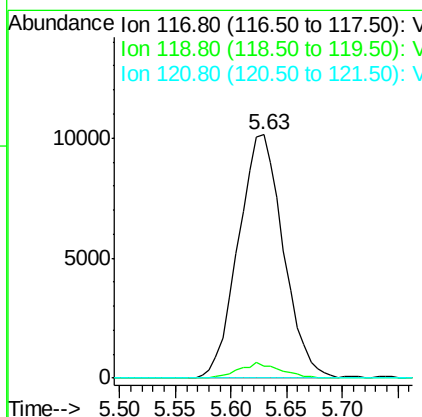
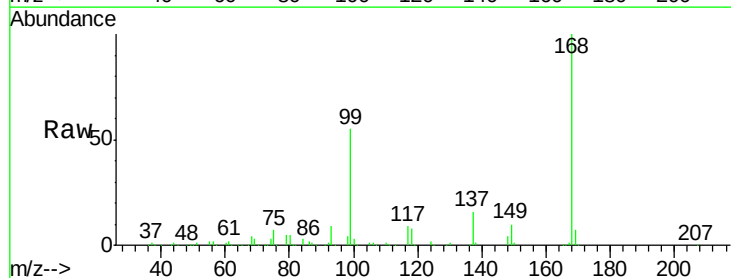
Instrument :
MSVOA_X
ClientSampleId :
PAV-B2-112520-12-12.75

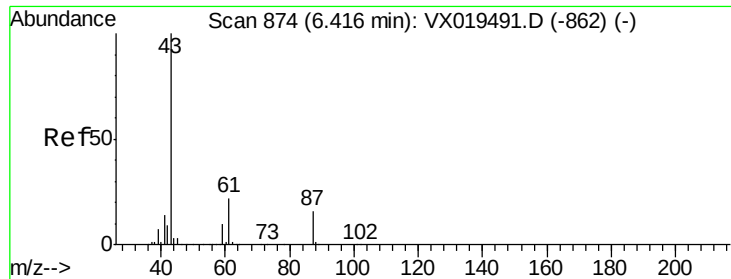
Tot Ion: 43 Resp: 8402
Ion Ratio Lower Upper
43 100
61 0.0 12.7 19.1#
70 0.0 10.2 15.2#



#38
Carbon Tetrachloride
Concen: 6.369 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Tgt Ion: 117 Resp: 28436
Ion Ratio Lower Upper
117 100
119 5.0 75.9 113.9#
121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 4.490 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B2-112520-12-12.75

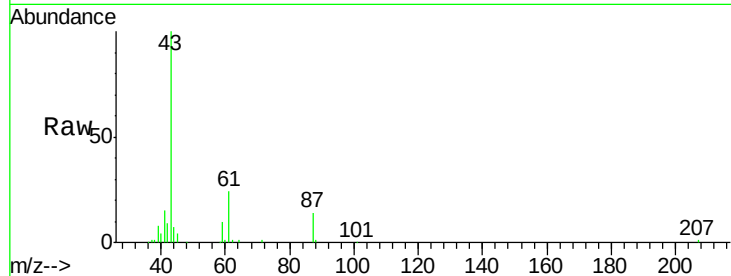
Tot Ion: 43 Resp: 32680

Ion Ratio Lower Upper

43 100

61 23.2 18.2 27.2

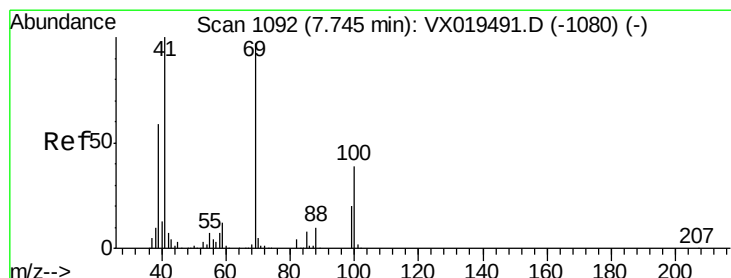
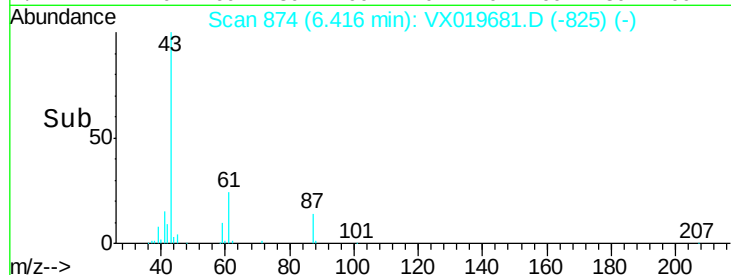
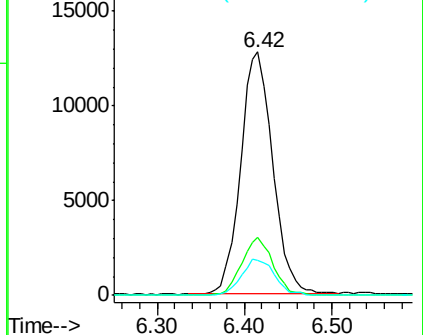
87 15.2 12.6 18.8



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: 2.290 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

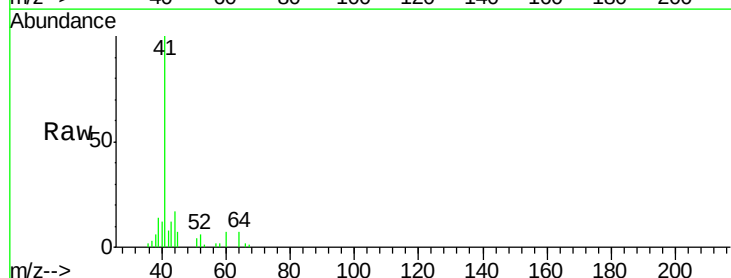
Tgt Ion: 41 Resp: 7807

Ion Ratio Lower Upper

41 100

69 0.0 77.0 115.6#

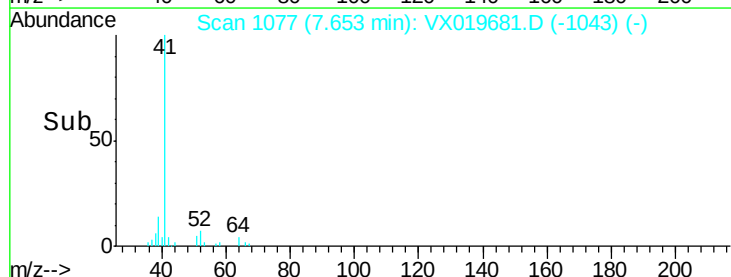
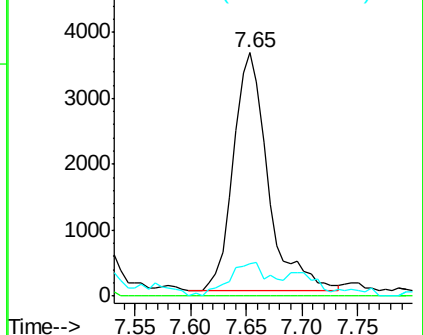
39 0.0 45.6 68.4#

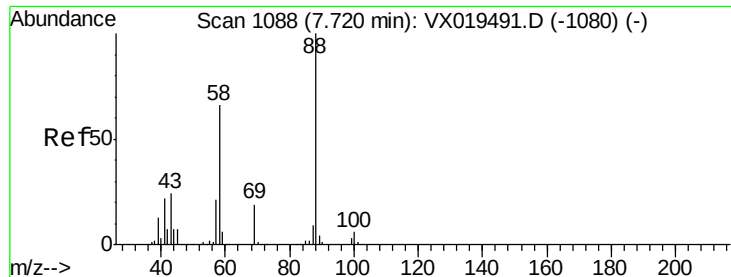


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

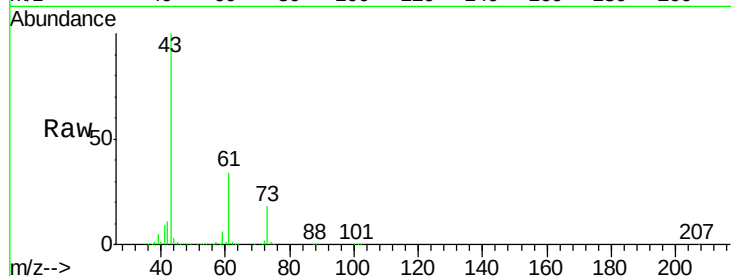




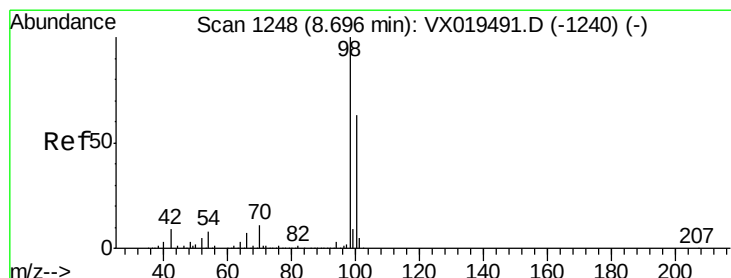
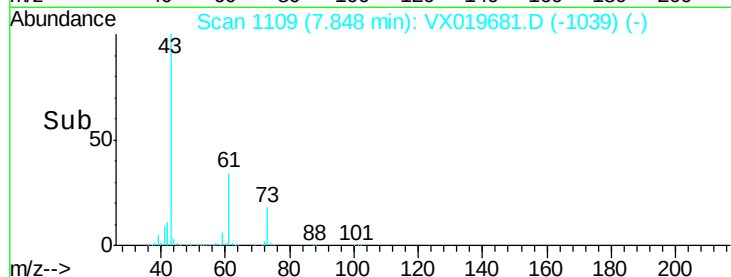
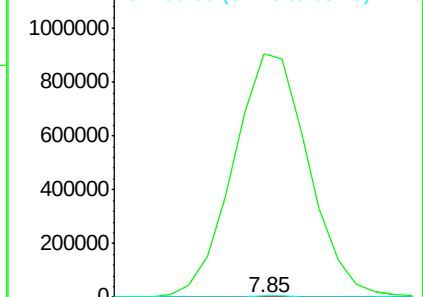
#49
1,4-Dioxane
Concen: 3.424 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
PAV-B2-112520-12-12.75

Tot Ion: 88 Resp: 265
Ion Ratio Lower Upper
88 100
43 589761.9 23.8 35.6#
58 2895.8 54.2 81.2#

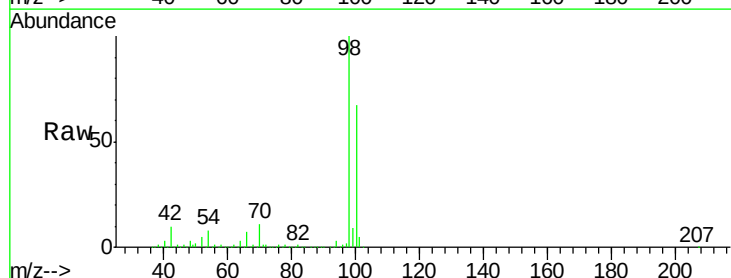


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

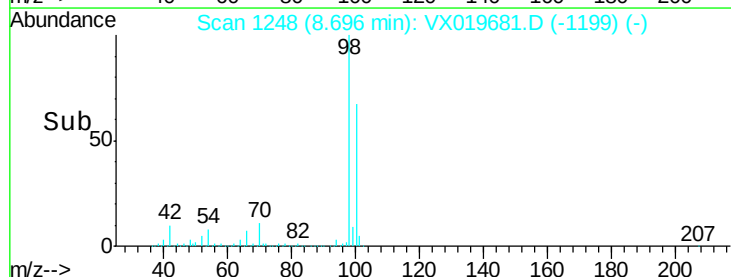
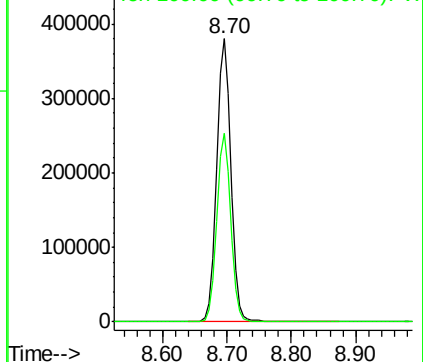


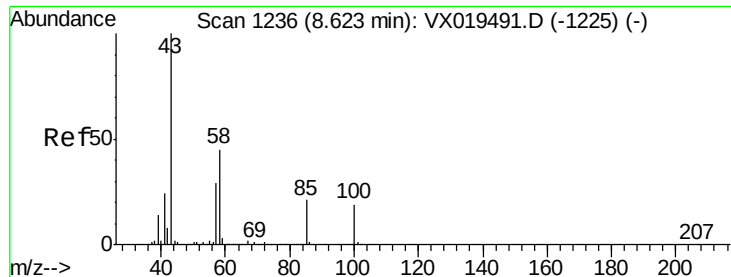
#50
Toluene-d8
Concen: 49.508 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Tgt Ion: 98 Resp: 594134
Ion Ratio Lower Upper
98 100
100 66.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 23.076 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

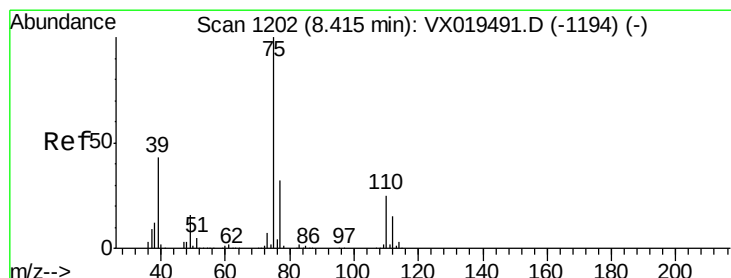
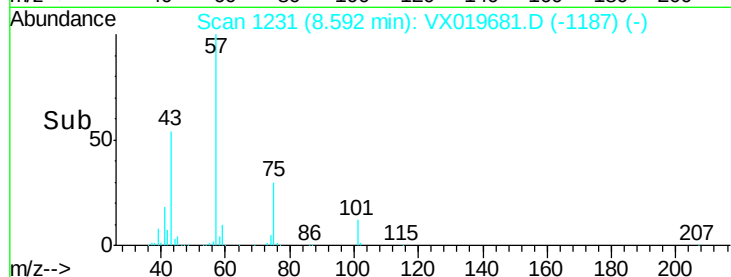
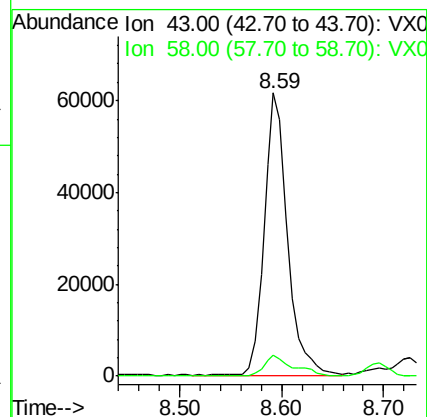
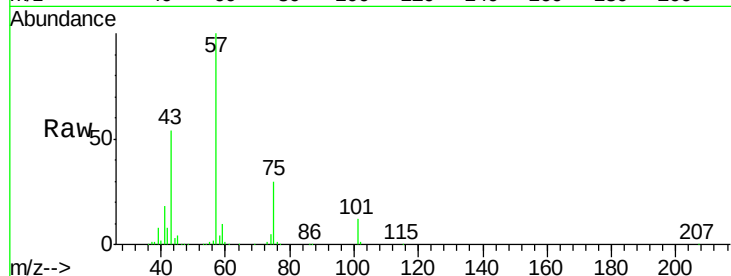
PAV-B2-112520-12-12.75

Tot Ion: 43 Resp: 97948

Ion Ratio Lower Upper

43 100

58 9.3 35.1 52.7#



#54

cis-1,3-Dichloropropene

Concen: 9.466 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

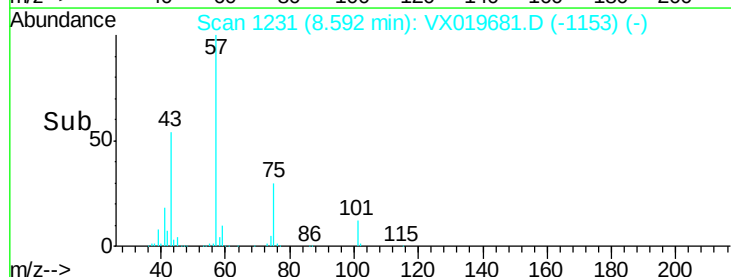
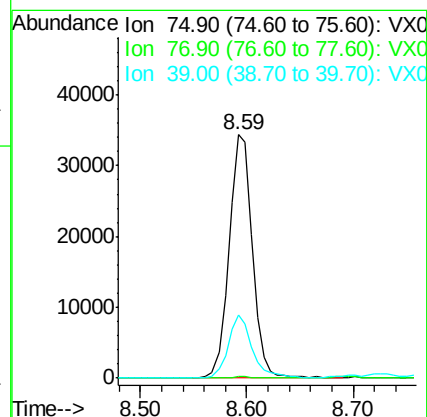
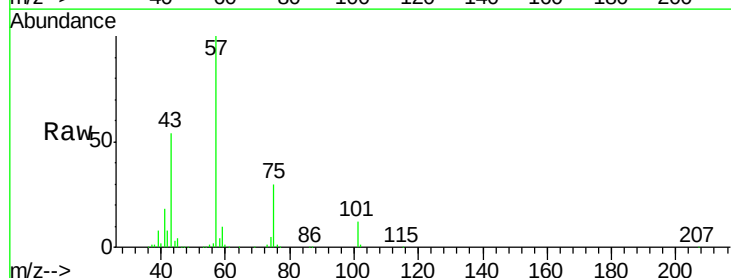
Tgt Ion: 75 Resp: 52570

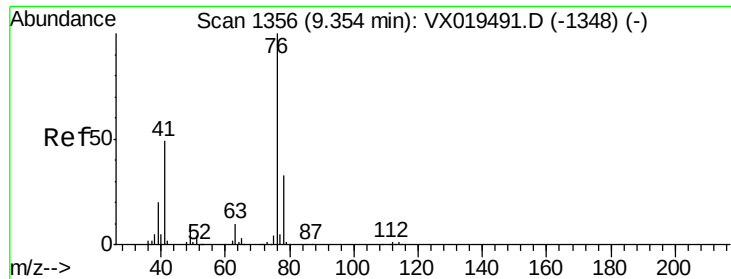
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 26.0 34.6 51.8#

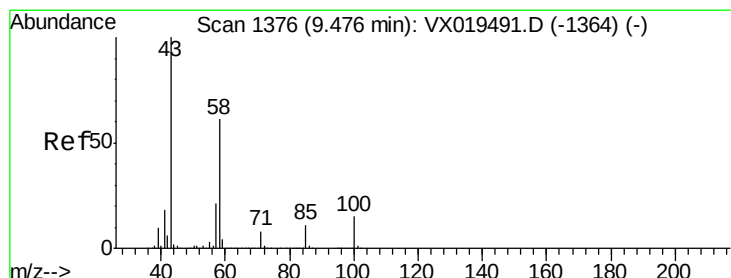
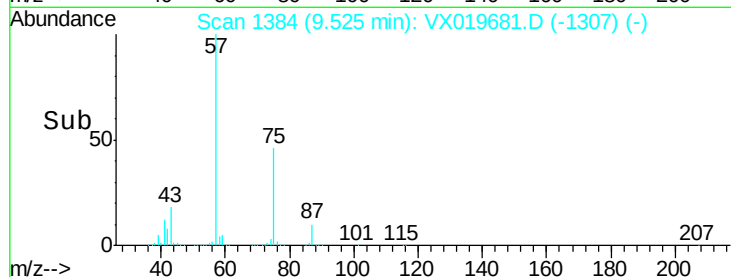
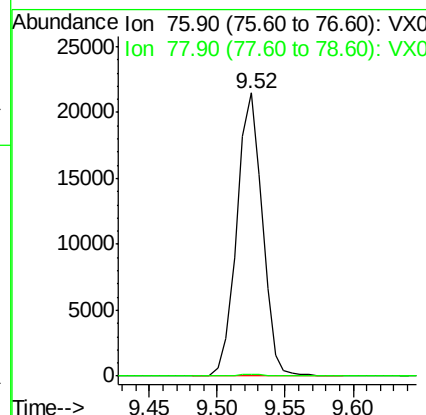
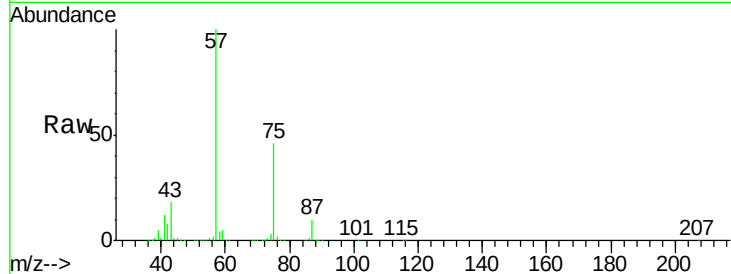




#57
 1,3-Dichloropropane
 Concen: 4.750 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

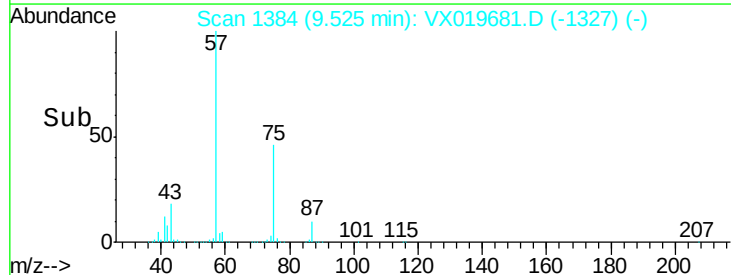
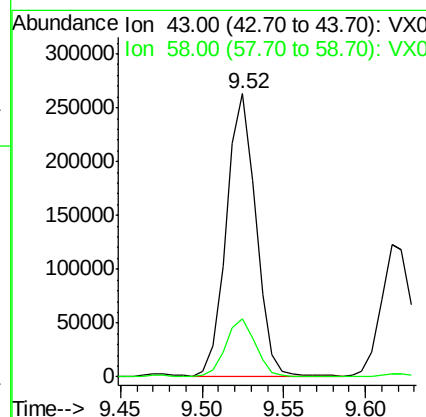
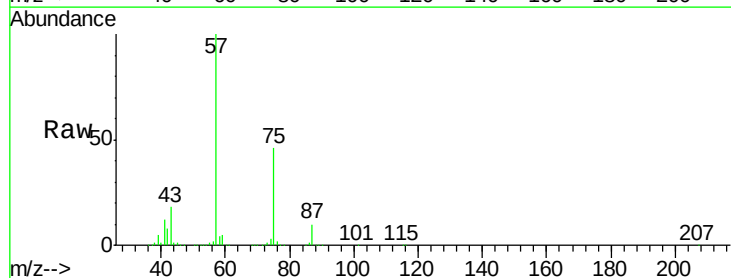
Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B2-112520-12-12.75

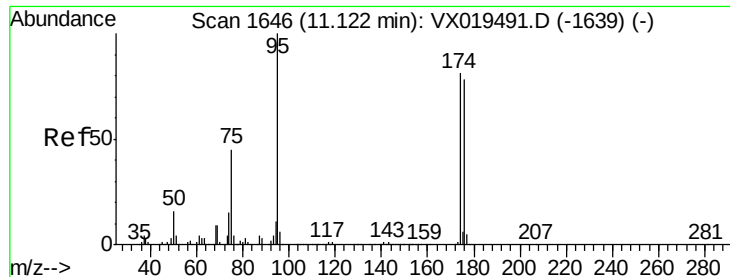
Tot Ion: 76 Resp: 28082
 Ion Ratio Lower Upper
 76 100
 78 0.6 25.7 38.5#



#59
 2-Hexanone
 Concen: 102.396 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019681.D
 Acq: 30 Nov 2020 15:34

Tgt Ion: 43 Resp: 329638
 Ion Ratio Lower Upper
 43 100
 58 21.1 30.6 91.6#





#62

4-Bromofluorobenzene

Concen: 45.209 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B2-112520-12-12.75

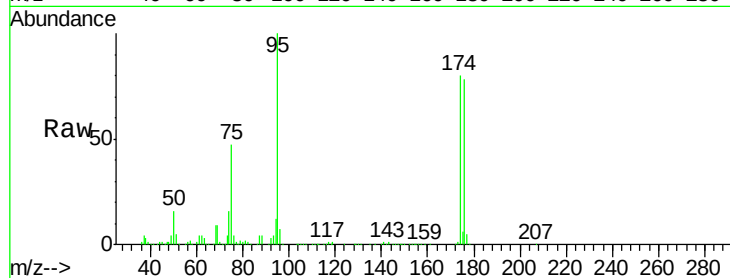
Tot Ion: 95 Resp: 195201

Ion Ratio Lower Upper

95 100

174 75.5 0.0 156.2

176 76.1 0.0 151.4



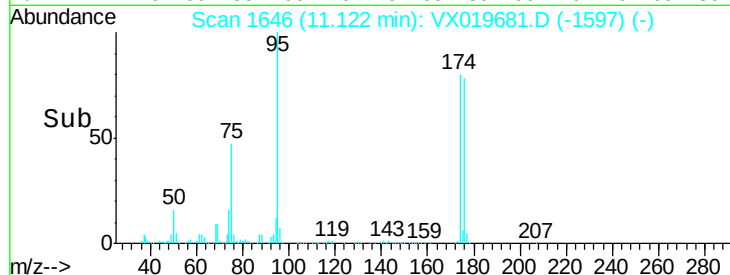
Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

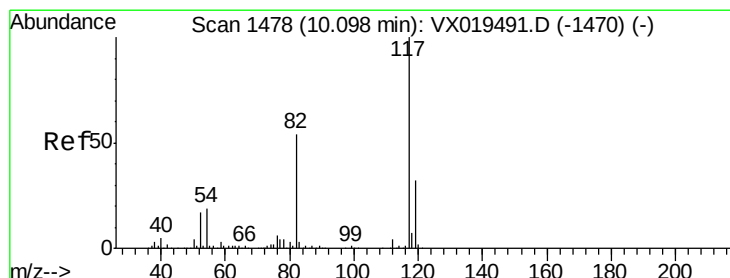
Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)

11.12

11.10 11.20



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

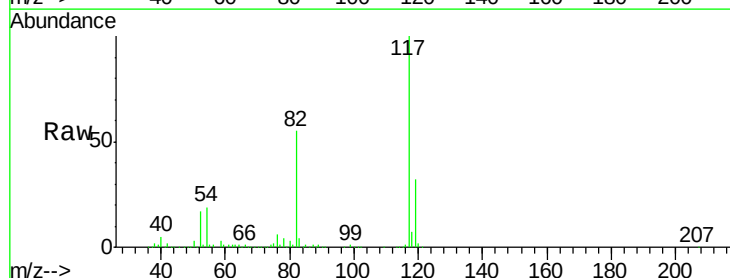
Tgt Ion: 117 Resp: 428973

Ion Ratio Lower Upper

117 100

82 55.0 43.0 64.4

119 31.7 25.6 38.4



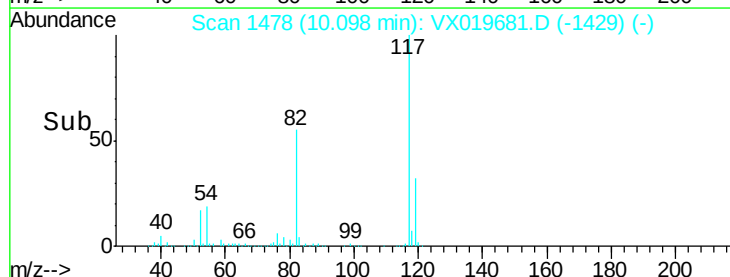
Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

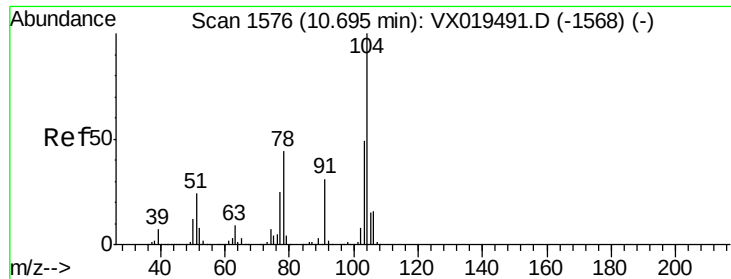
Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

10.10

10.00 10.20



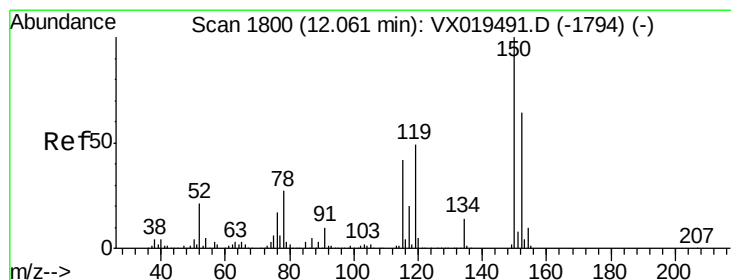
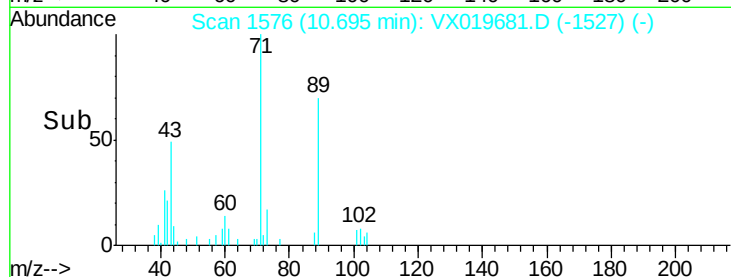
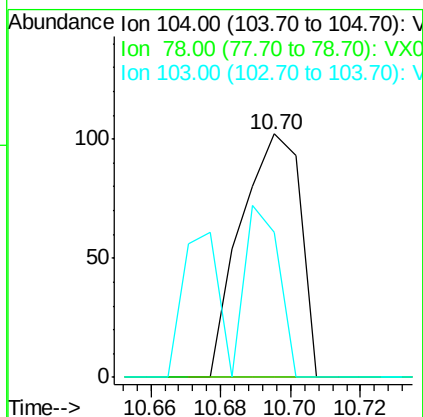
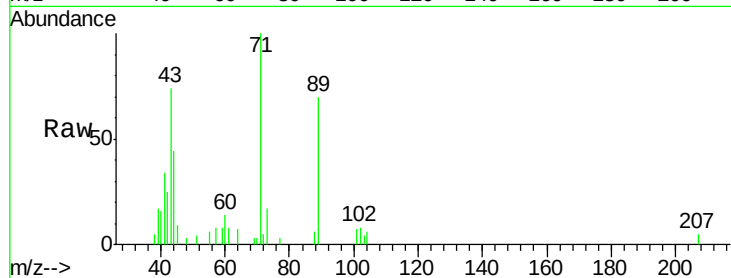
Time-->



#70
Stvrene
Concen: 1.657 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

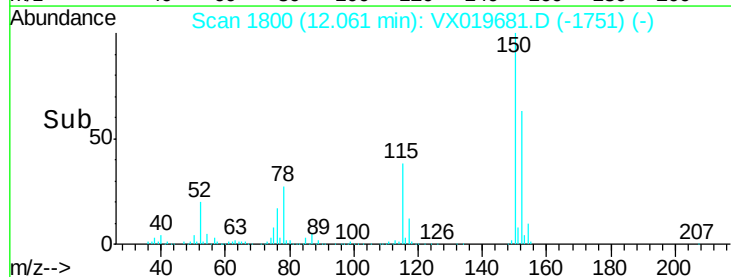
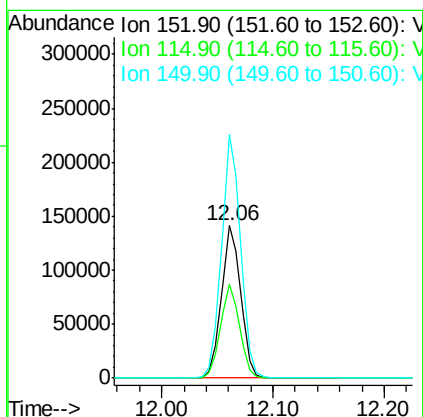
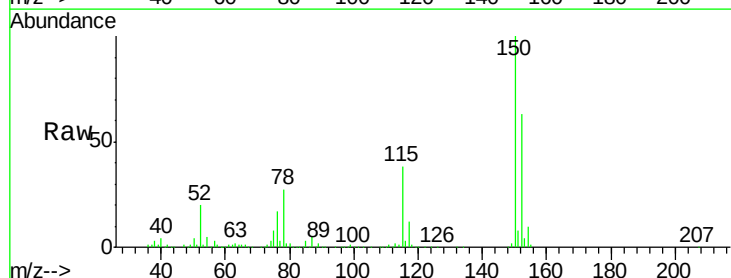
Instrument :
MSVOA_X
ClientSampleId :
PAV-B2-112520-12-12.75

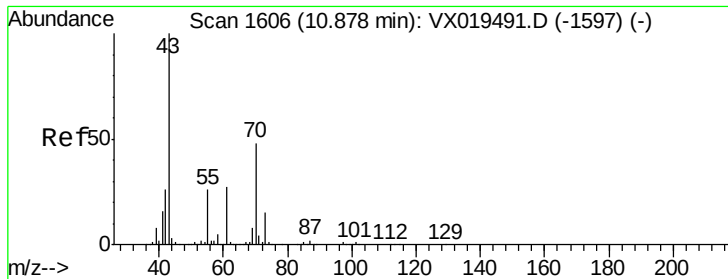
Tot Ion:104 Resp: 120
Ion Ratio Lower Upper
104 100
78 0.0 39.5 59.3#
103 40.8 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019681.D
Acq: 30 Nov 2020 15:34

Tgt Ion:152 Resp: 169393
Ion Ratio Lower Upper
152 100
115 60.5 41.8 125.4
150 158.1 0.0 348.2





#74

N-amvl acetate

Concen: 0.424 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B2-112520-12-12.75

Tot Ion: 43 Resp: 1860

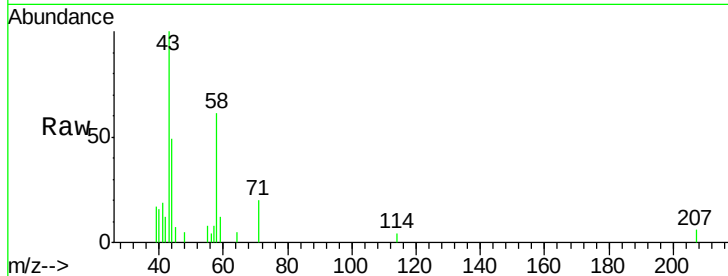
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 11.2 21.8 32.6#

61 0.0 22.2 33.4#

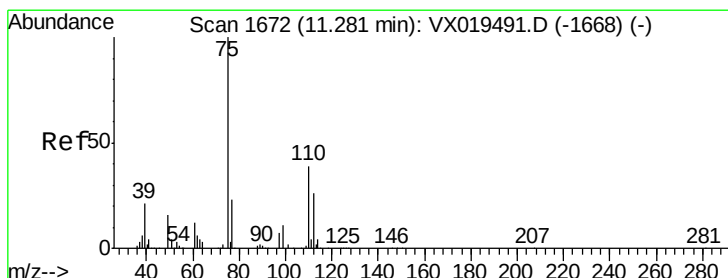
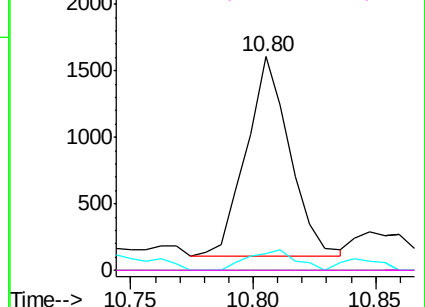
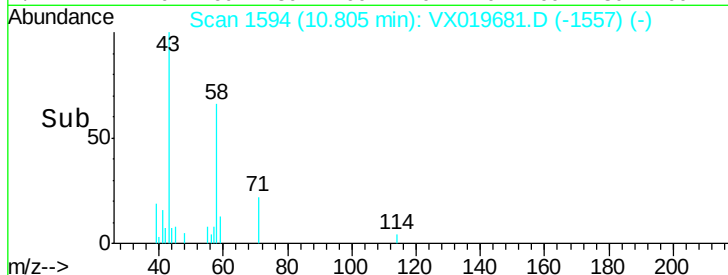


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.492 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019681.D

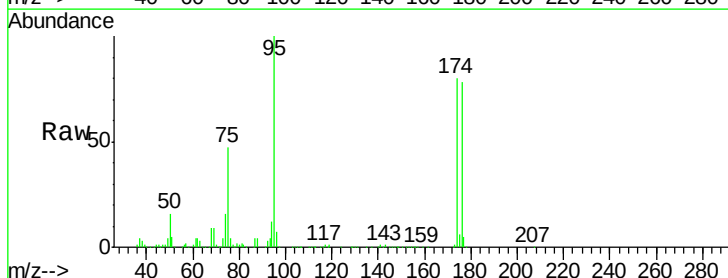
Acq: 30 Nov 2020 15:34

Tgt Ion: 75 Resp: 94238

Ion Ratio Lower Upper

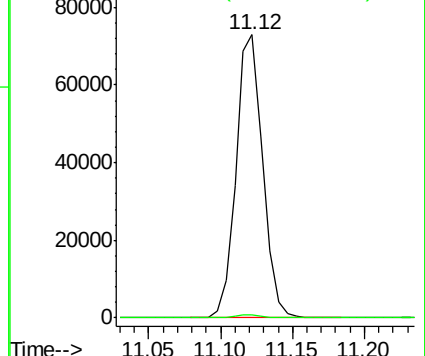
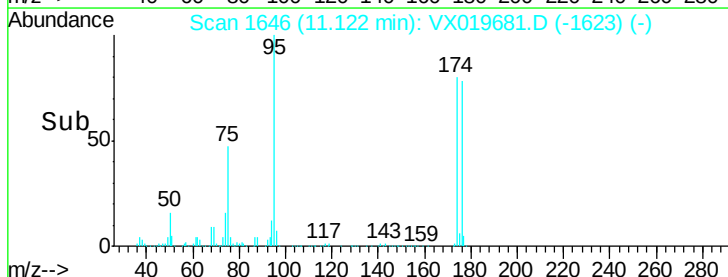
75 100

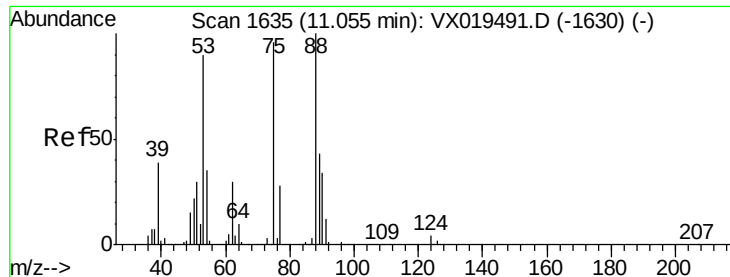
77 1.2 20.0 60.0#



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: 67.257 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

PAV-B2-112520-12-12.75

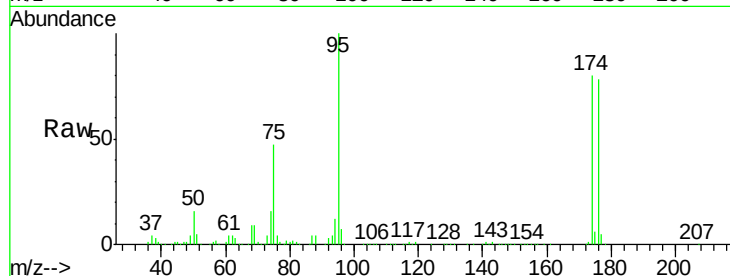
Tot Ion: 75 Resp: 94238

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

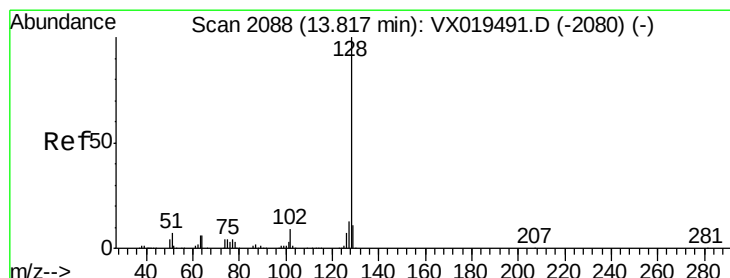
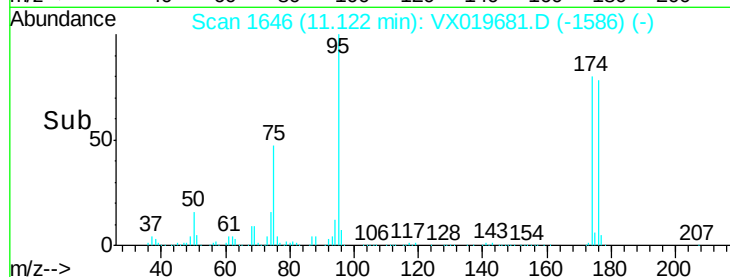
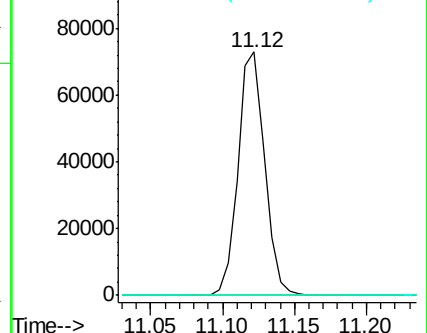
89 0.0 37.3 55.9#



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



#95

Naphthalene

Concen: 2.211 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX019681.D

Acq: 30 Nov 2020 15:34

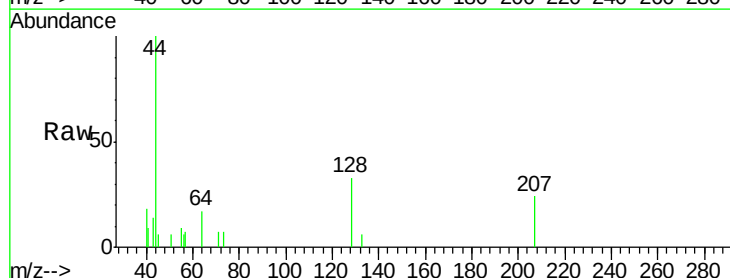
Tgt Ion: 128 Resp: 432

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

