

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061022.D
 Acq On : 16 Apr 2020 19:20
 Operator : JC/MD
 Sample : L2284-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 17 04:00:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	164452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	275072	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	258645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	114604	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	109081	51.84	ug/l	0.00
Spiked Amount						
			Recovery	=	103.68%	
35) Dibromofluoromethane	7.56	113	82460	51.33	ug/l	0.00
Spiked Amount						
			Recovery	=	102.66%	
50) Toluene-d8	10.08	98	343820	56.64	ug/l	0.00
Spiked Amount						
			Recovery	=	113.28%	
62) 4-Bromofluorobenzene	12.39	95	127870	53.75	ug/l	0.00
Spiked Amount						
			Recovery	=	107.50%	

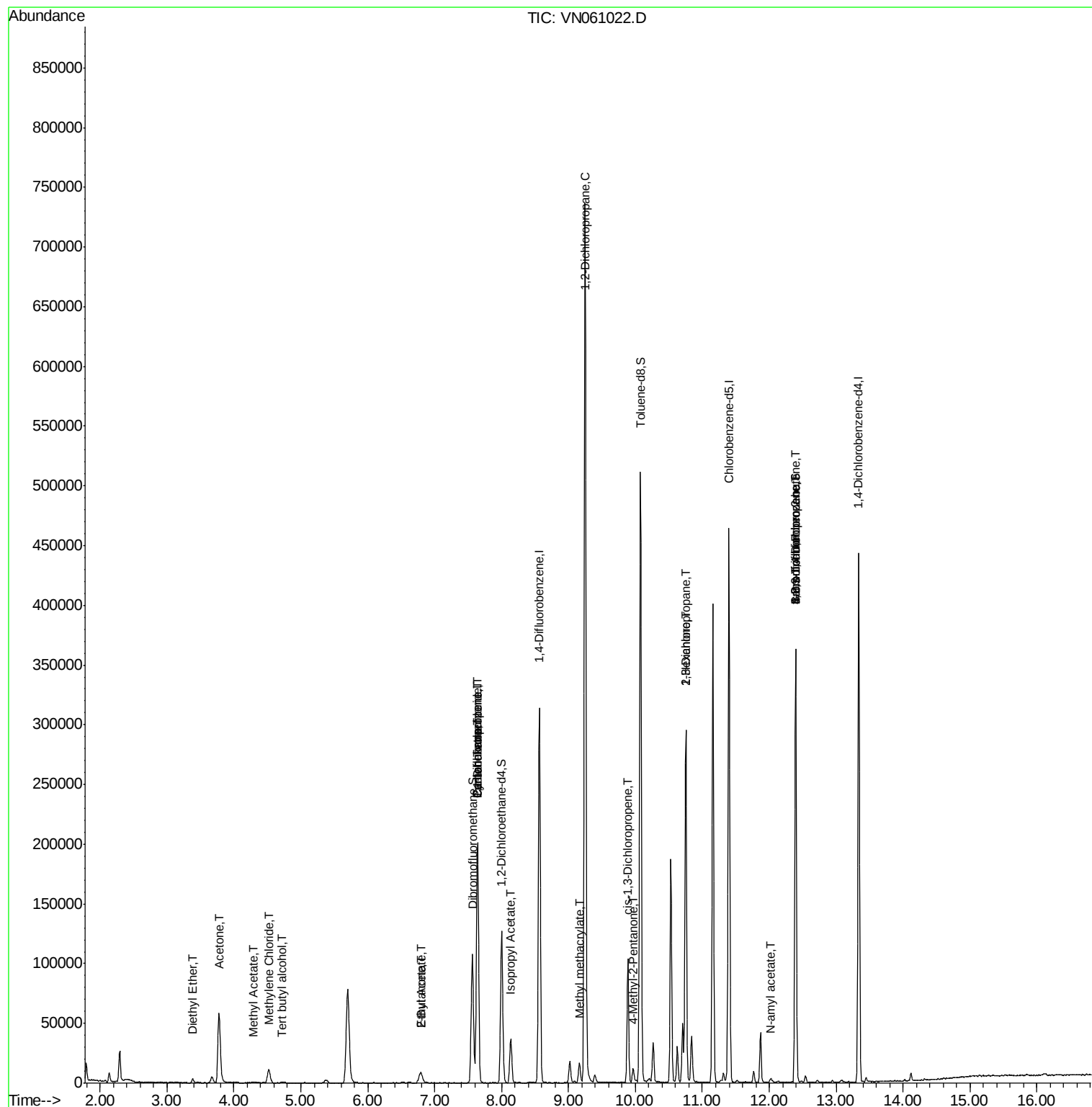
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	1761	1.468	ug/l	94
11) Tert butyl alcohol	4.73	59	2253	6.035	ug/l #	73
16) Acetone	3.78	43	101322	109.407	ug/l	100
18) Methyl Acetate	4.29	43	934	0.322	ug/l #	54
20) Methylene Chloride	4.53	84	8708	4.307	ug/l	98
25) 2-Butanone	6.80	43	14026	9.884	ug/l	98
31) Cyclohexane	7.64	56	3600	0.919	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13081	4.608	ug/l #	49
37) Ethyl Acetate	6.80	43	14026	4.551	ug/l #	69
38) Carbon Tetrachloride	7.64	117	16083	6.807	ug/l #	14
43) Isopropyl Acetate	8.14	43	44276	8.833	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	834	0.367	ug/l #	43
48) Methyl methacrylate	9.16	41	2576	1.163	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8781	3.039	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	18122	5.161	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2797	0.820	ug/l #	43
59) 2-Hexanone	10.75	43	46244	22.190	ug/l #	54
71) Bromoform	12.39	173	812	0.569	ug/l #	1
74) N-amyl acetate	12.02	43	3140	0.735	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	64642	25.643	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	64642	63.251	ug/l #	12

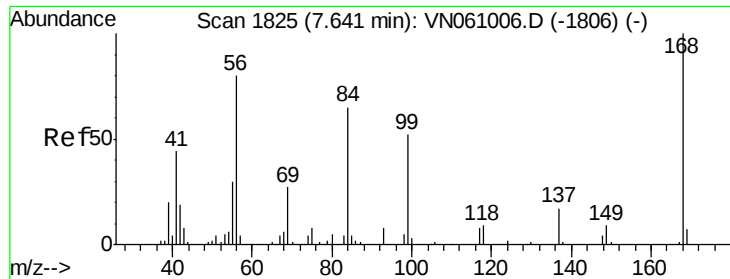
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 17 04:00:36 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

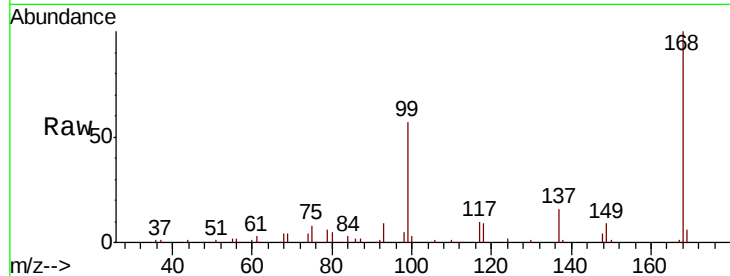
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 164452

Ion Ratio Lower Upper

168 100

99 57.3 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

60000

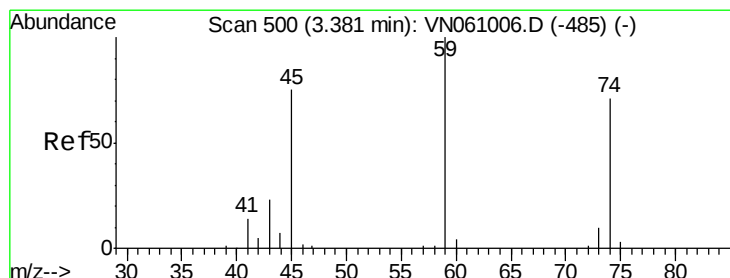
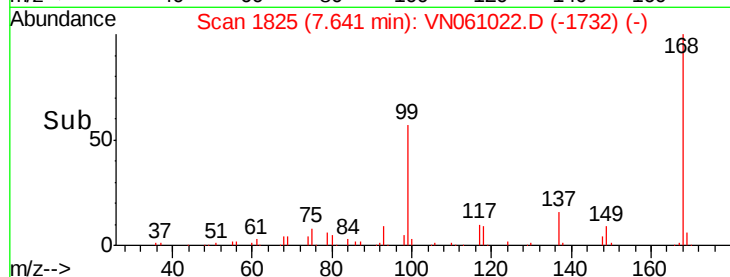
40000

20000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 1.468 ug/l

RT: 3.39 min Scan# 502

Delta R.T. 0.01 min

Lab File: VN061022.D

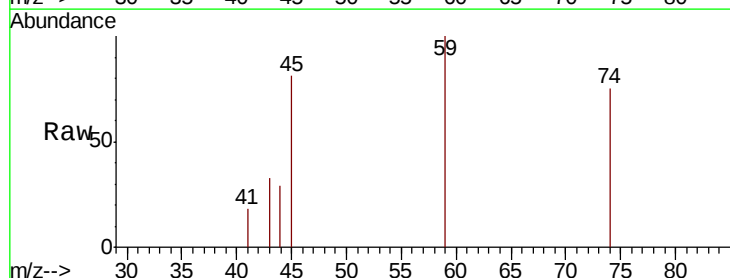
Acq: 16 Apr 2020 19:20

Tgt Ion: 74 Resp: 1761

Ion Ratio Lower Upper

74 100

45 100.2 52.9 158.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.39

1000

800

600

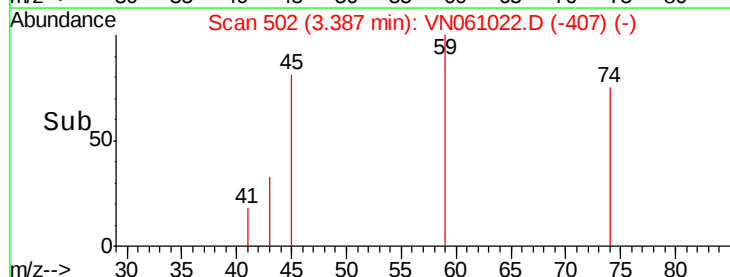
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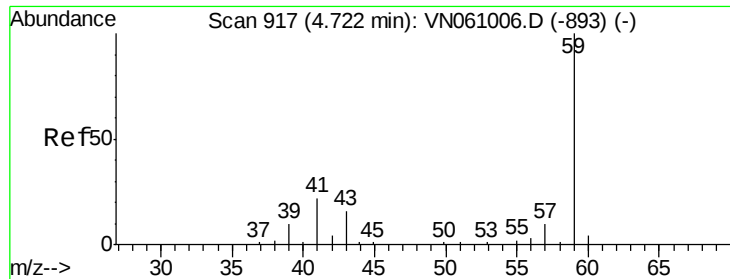
200

0

3.35 3.40

Time-->

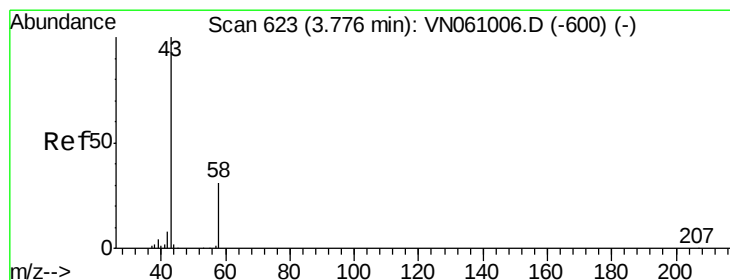
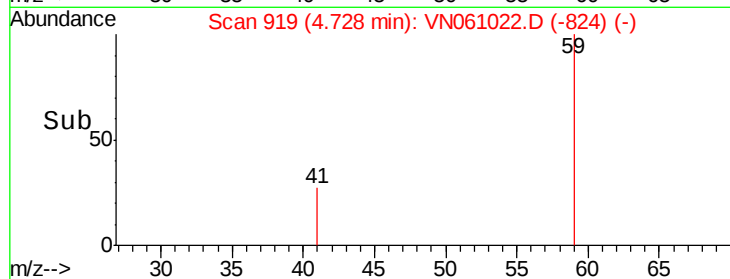
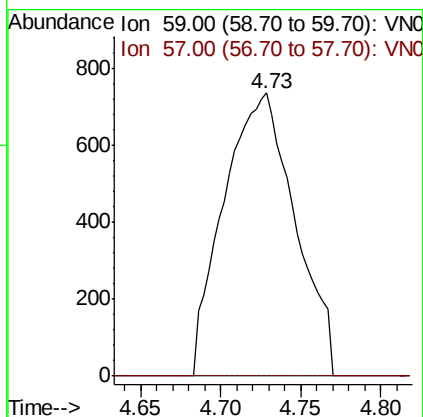
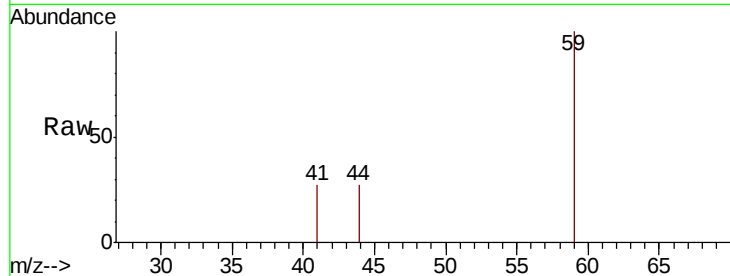




#11
Tert butyl alcohol
Concen: 6.035 ug/l
RT: 4.73 min Scan# 919
Delta R.T. 0.01 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

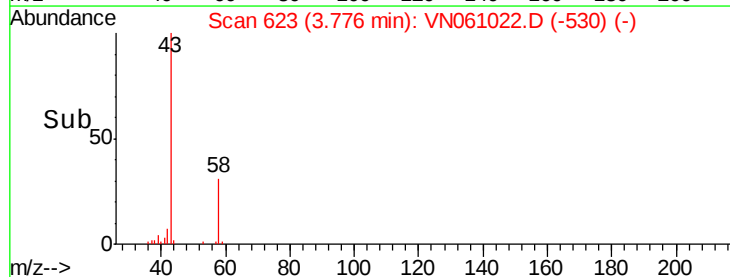
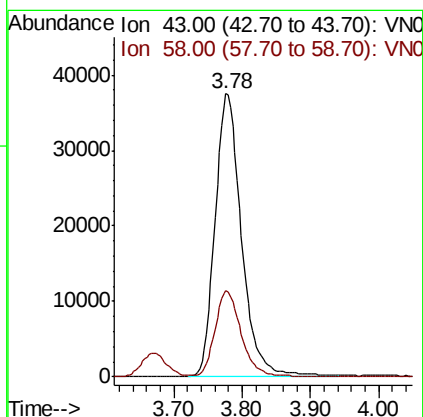
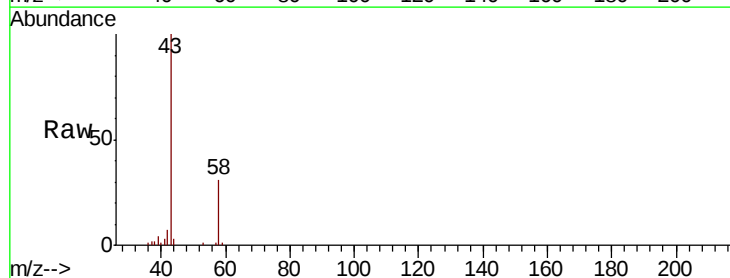
Instrument :
MSVOA_N
ClientSampled :

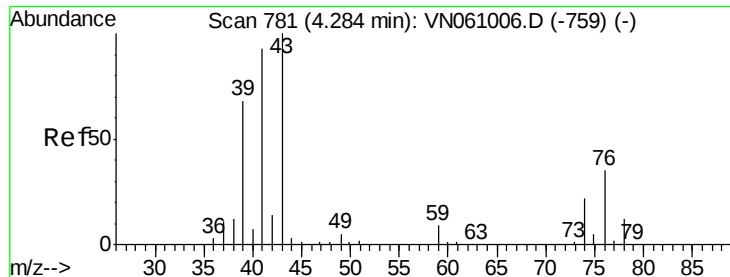
Tot Ion: 59 Resp: 2253
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 109.407 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Tgt Ion: 43 Resp: 101322
Ion Ratio Lower Upper
43 100
58 30.5 24.6 37.0

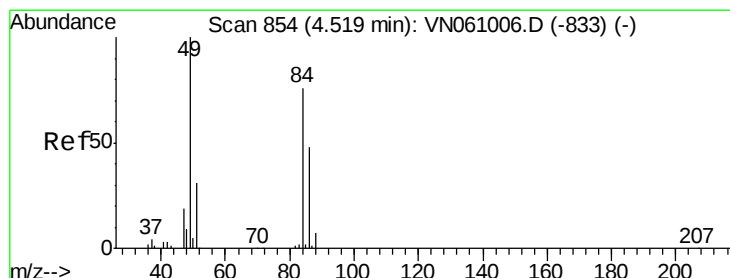
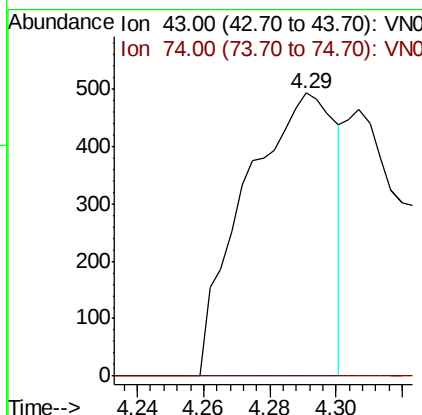
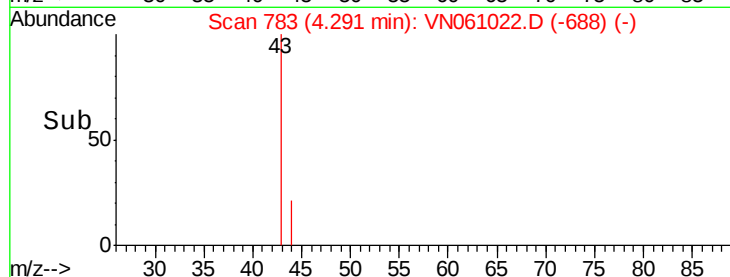
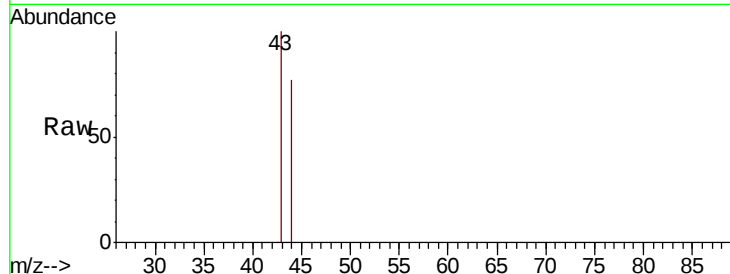




#18
Methyl Acetate
Concen: 0.322 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

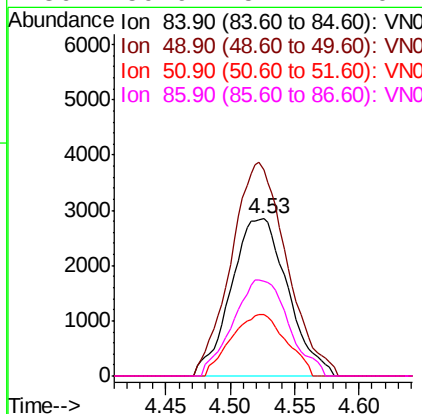
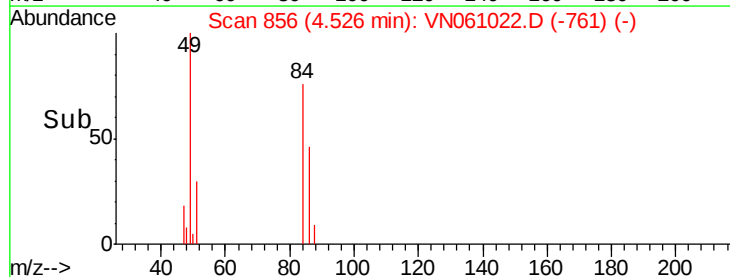
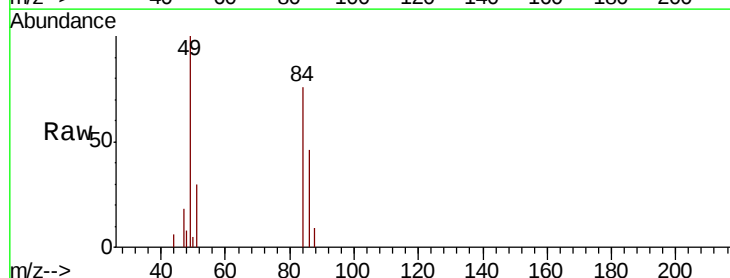
Instrument :
MSVOA_N
ClientSampled :

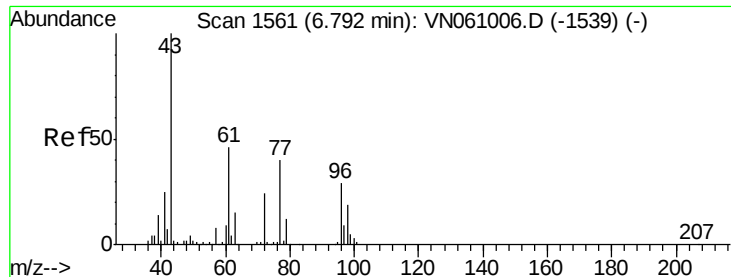
Tot Ion: 43 Resp: 934
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 4.307 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.01 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Tgt Ion: 84 Resp: 8708
Ion Ratio Lower Upper
84 100
49 130.7 105.8 158.6
51 39.0 32.4 48.6
86 59.9 51.1 76.7

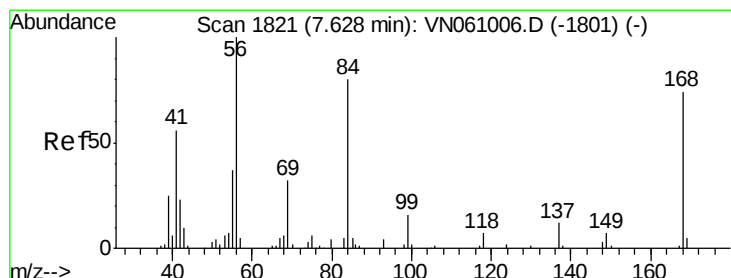
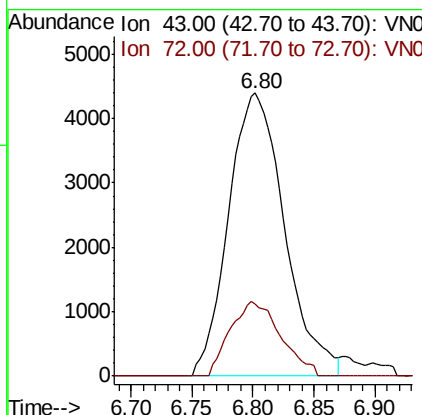
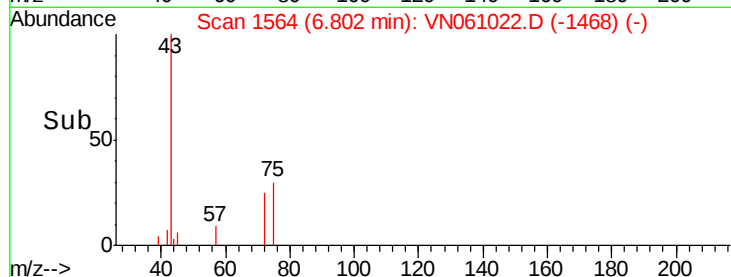
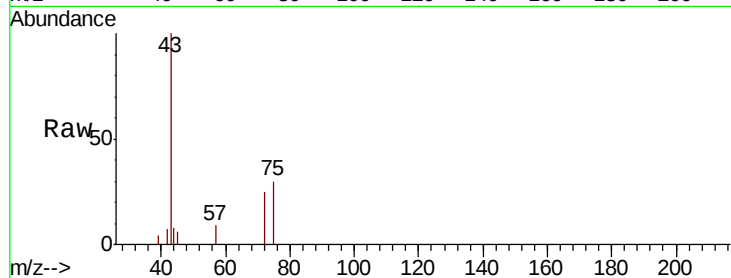




#25
2-Butanone
Concen: 9.884 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

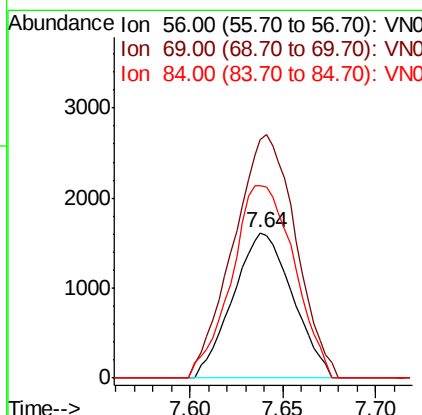
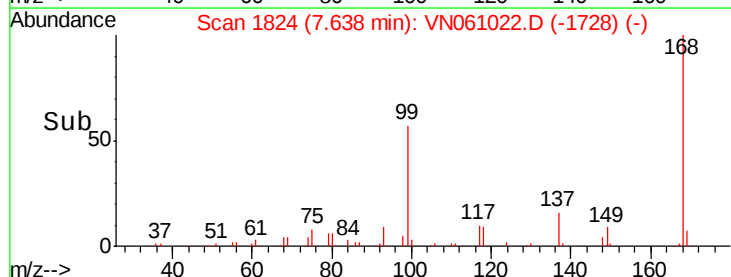
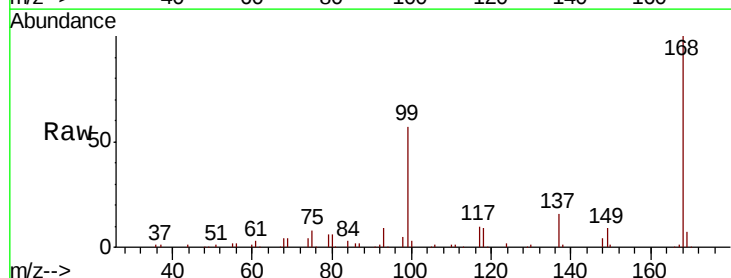
Instrument :
MSVOA_N
ClientSampleId :

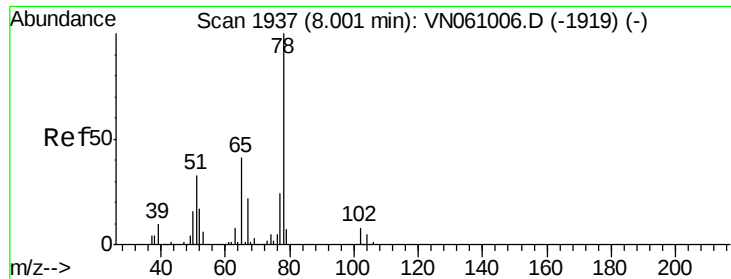
Tot Ion: 43 Resp: 14026
Ion Ratio Lower Upper
43 100
72 25.3 19.6 29.4



#31
Cyclohexane
Concen: 0.919 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Tgt Ion: 56 Resp: 3600
Ion Ratio Lower Upper
56 100
69 164.4 25.6 38.4#
84 132.4 63.4 95.2#

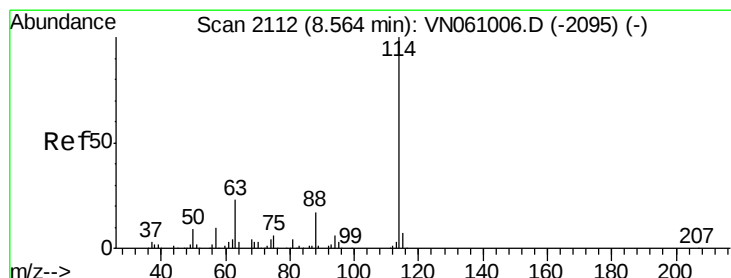
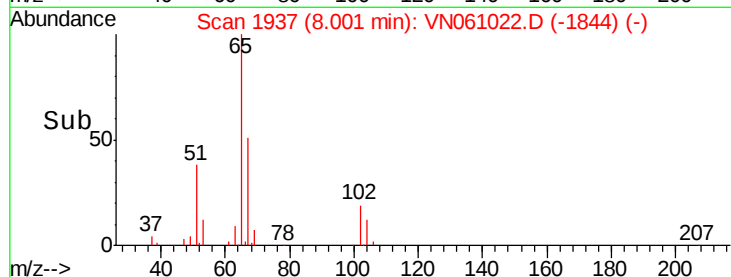
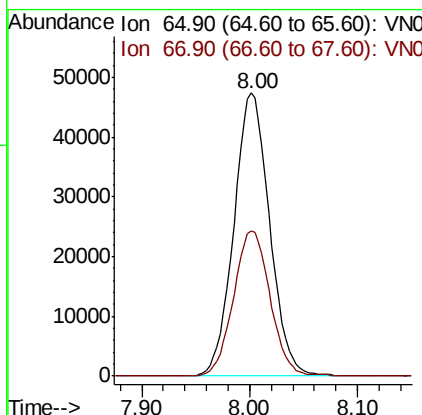
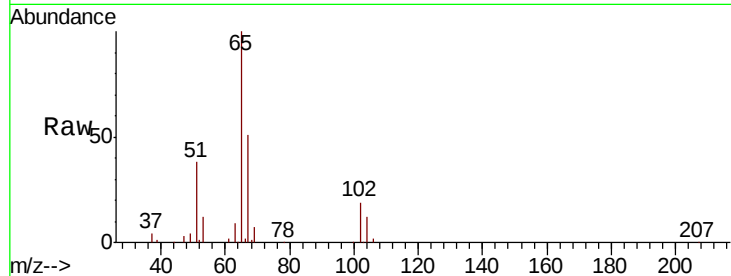




#33
 1,2-Dichloroethane-d4
 Concen: 51.843 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061022.D
 Acq: 16 Apr 2020 19:20

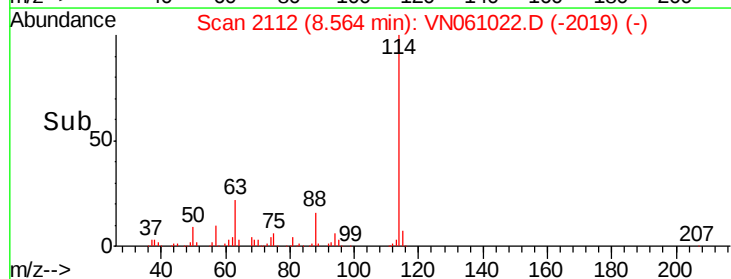
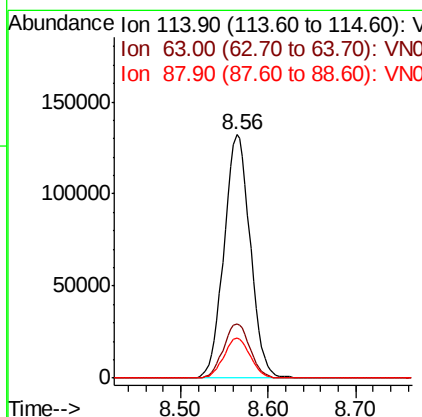
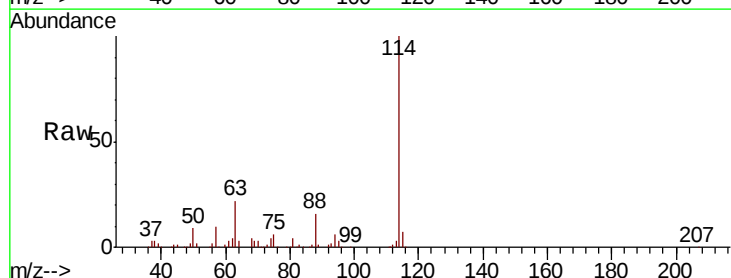
Instrument :
 MSVOA_N
 ClientSampled :

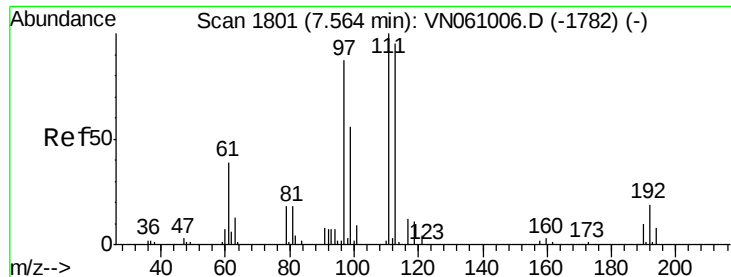
Tot Ion: 65 Resp: 109081
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061022.D
 Acq: 16 Apr 2020 19:20

Tgt Ion: 114 Resp: 275072
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 46.2
 88 16.3 0.0 33.4

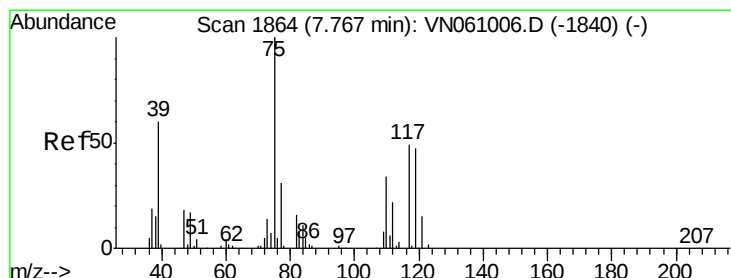
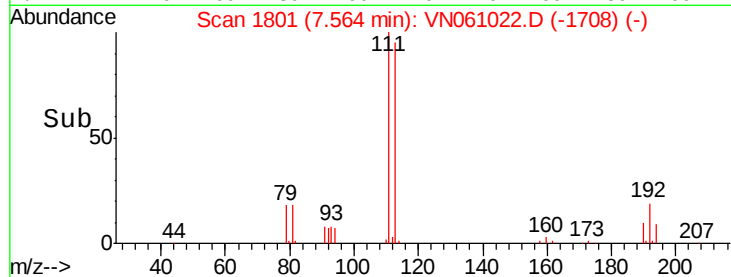
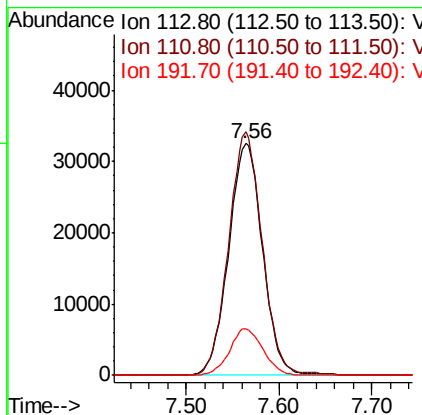
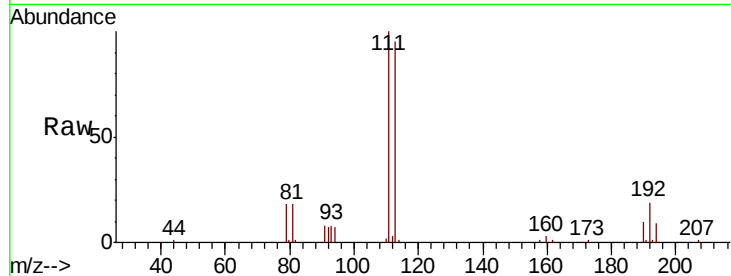




#35
 Dibromofluoromethane
 Concen: 51.333 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061022.D
 Acq: 16 Apr 2020 19:20

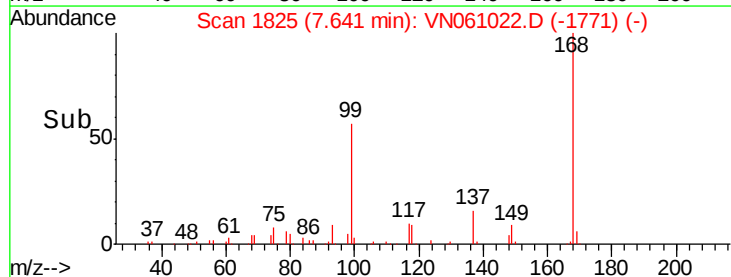
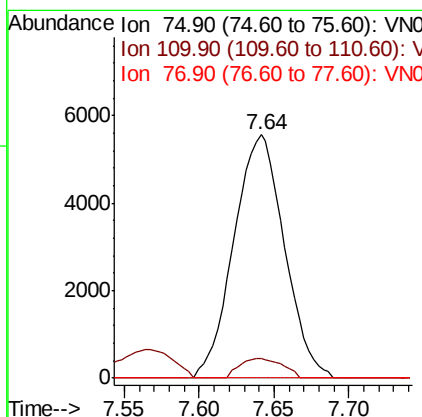
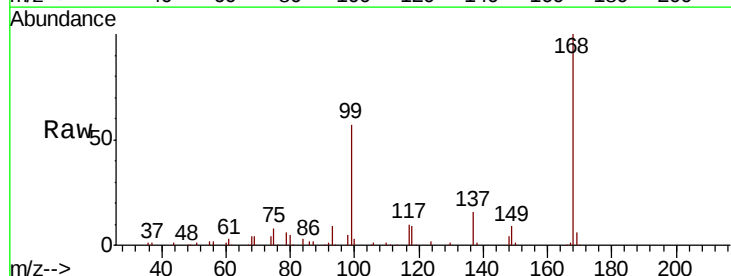
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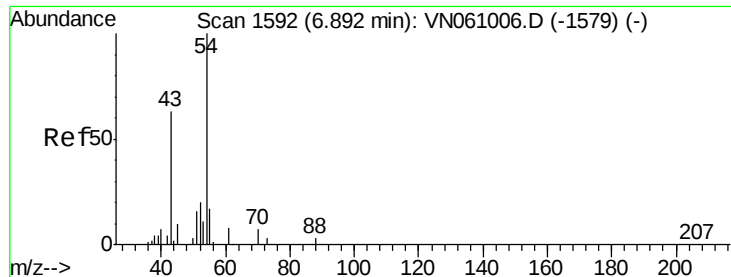
Tot Ion:113 Resp: 82460
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.4 125.2
 192 19.7 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.608 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN061022.D
 Acq: 16 Apr 2020 19:20

Tgt Ion: 75 Resp: 13081
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.8 50.3#
 77 0.0 24.7 37.1#

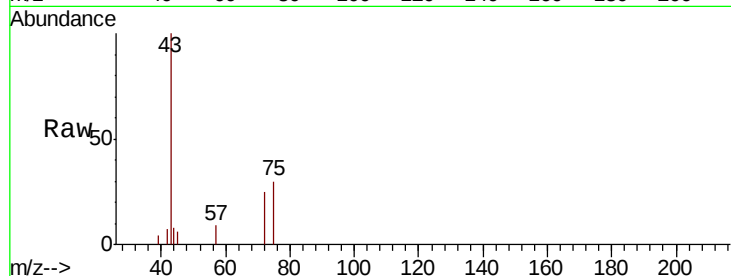




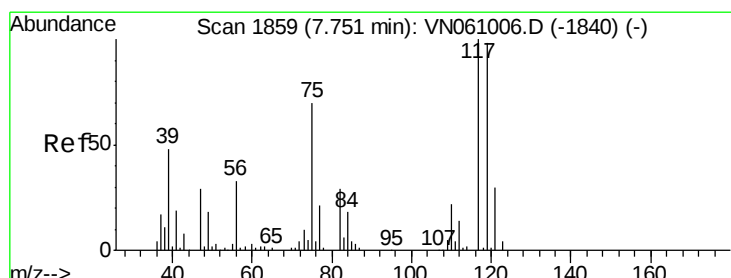
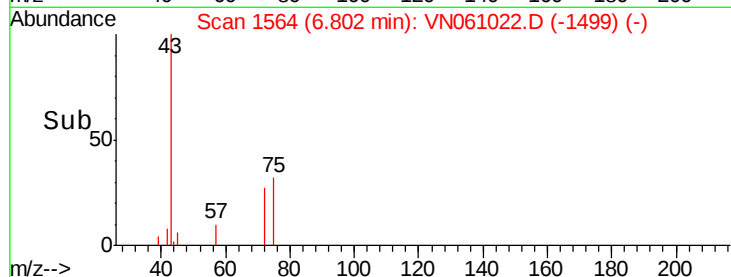
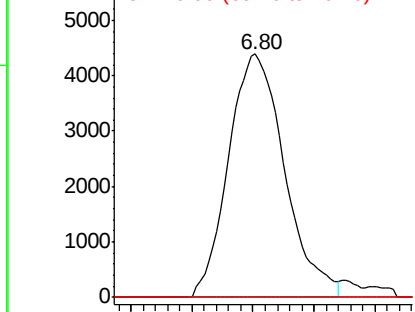
#37
Ethyl Acetate
Concen: 4.551 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 14026
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

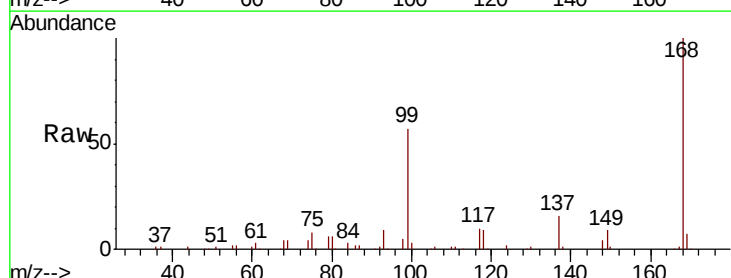


Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-1579) (-)
Ion 60.90 (60.60 to 61.60): VN061006.D (-1579) (-)
Ion 70.00 (69.70 to 70.70): VN061006.D (-1579) (-)

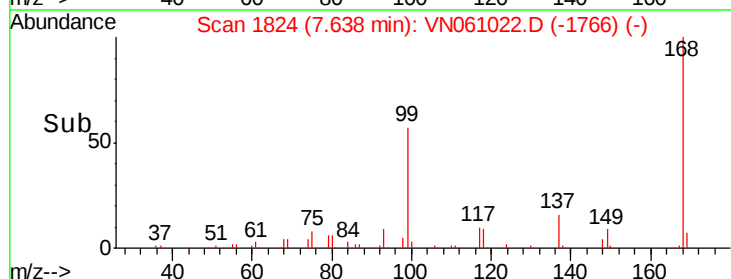
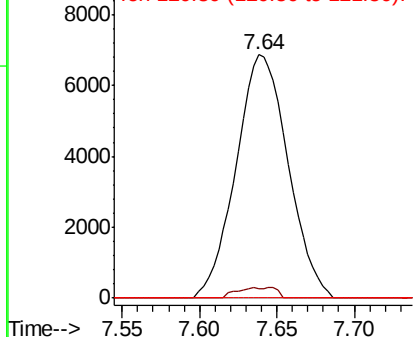


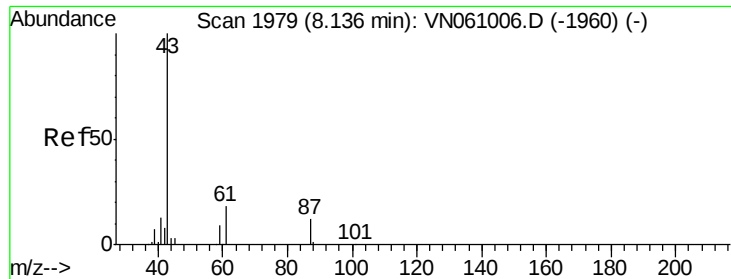
#38
Carbon Tetrachloride
Concen: 6.807 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Tgt Ion: 117 Resp: 16083
Ion Ratio Lower Upper
117 100
119 4.0 78.1 117.1#
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN061006.D (-1840) (-)
Ion 118.80 (118.50 to 119.50): VN061006.D (-1840) (-)
Ion 120.80 (120.50 to 121.50): VN061006.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 8.833 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

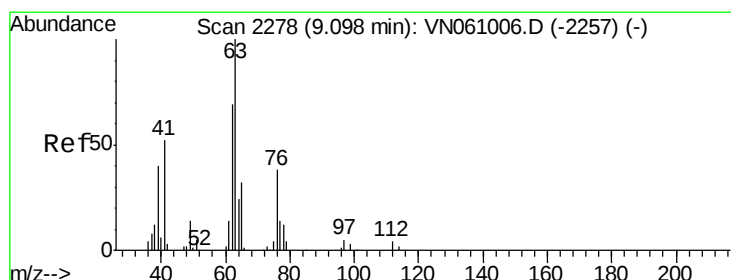
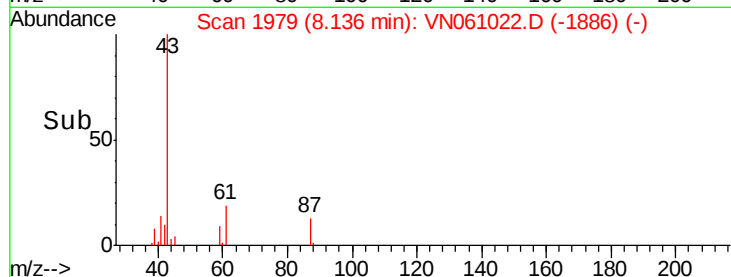
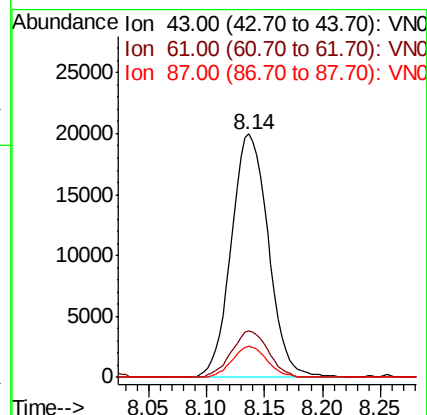
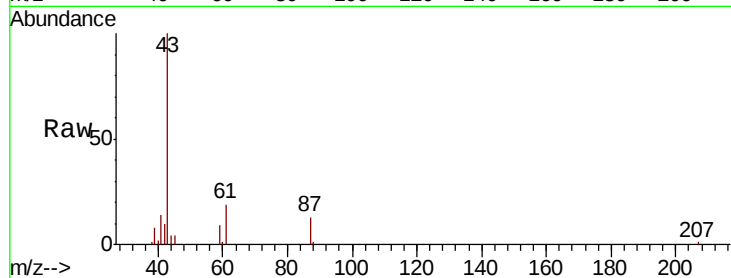
Tot Ion: 43 Resp: 44276

Ion Ratio Lower Upper

43 100

61 18.8 20.3 30.5#

87 12.0 9.4 14.2



#45

1,2-Dichloropropane

Concen: 0.367 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.15 min

Lab File: VN061022.D

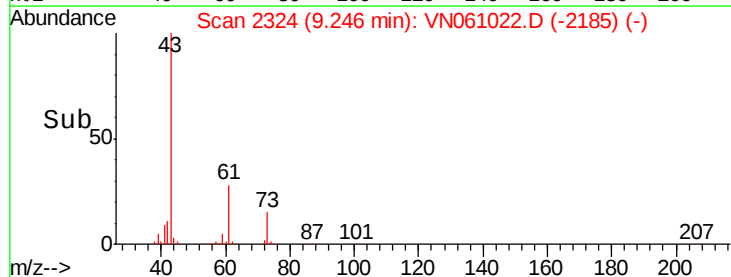
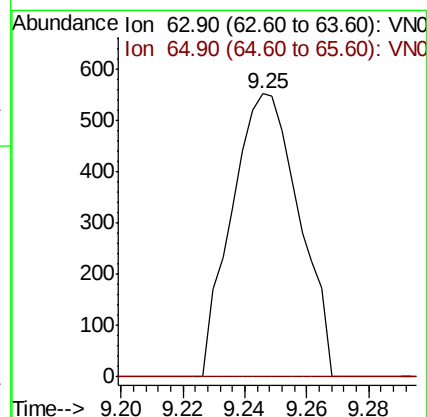
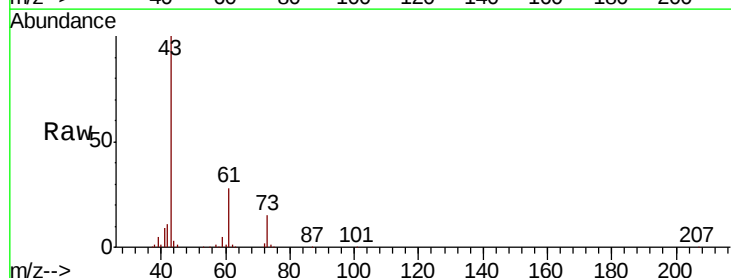
Acq: 16 Apr 2020 19:20

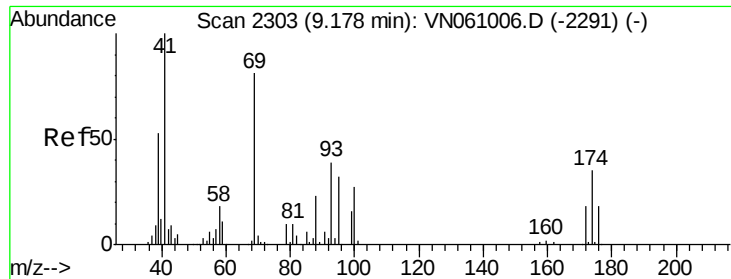
Tgt Ion: 63 Resp: 834

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#

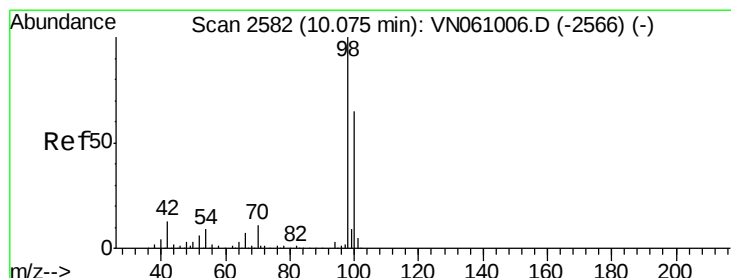
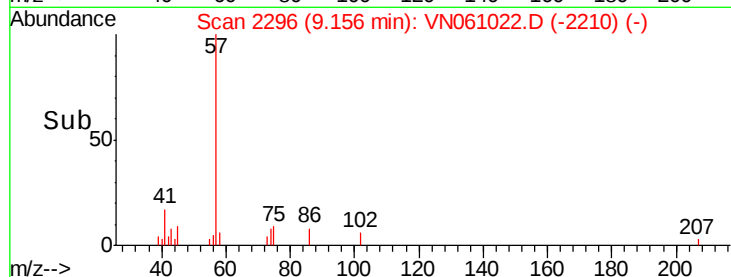
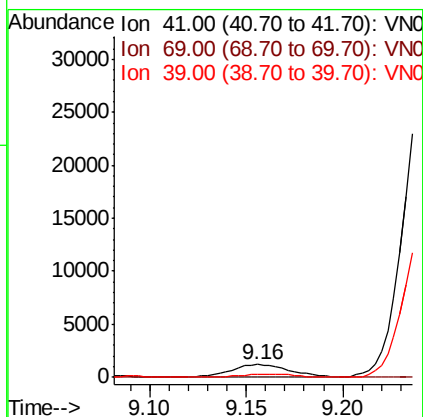
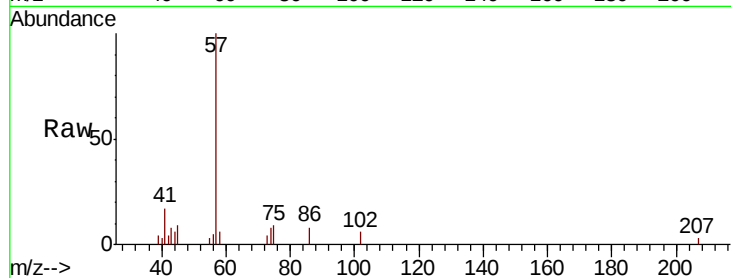




#48
Methvl methacrylate
Concen: 1.163 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.02 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

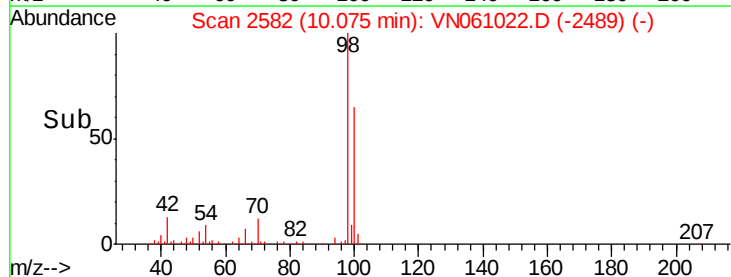
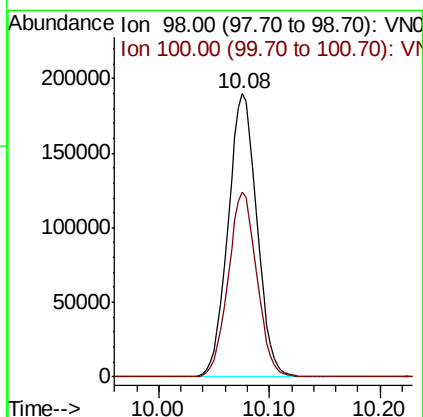
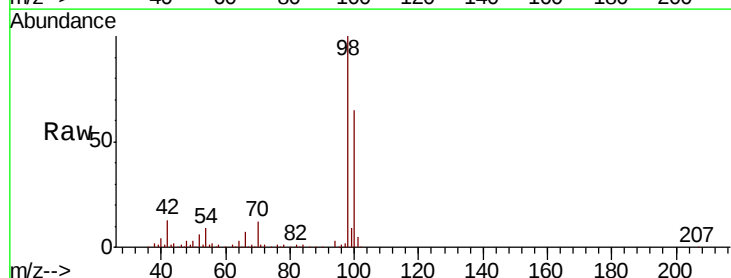
Instrument :
MSVOA_N
ClientSampled :

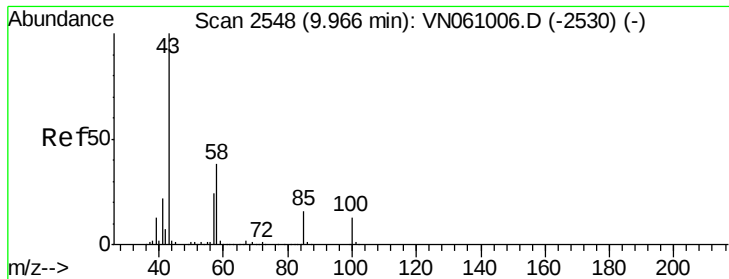
Tot Ion: 41 Resp: 2576
Ion Ratio Lower Upper
41 100
69 0.0 65.3 97.9#
39 0.0 45.2 67.8#



#50
Toluene-d8
Concen: 56.641 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061022.D
Acq: 16 Apr 2020 19:20

Tgt Ion: 98 Resp: 343820
Ion Ratio Lower Upper
98 100
100 64.8 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 3.039 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

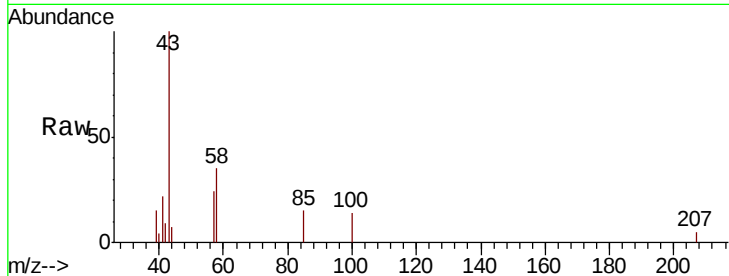
ClientSampleId :

Tot Ion: 43 Resp: 8781

Ion Ratio Lower Upper

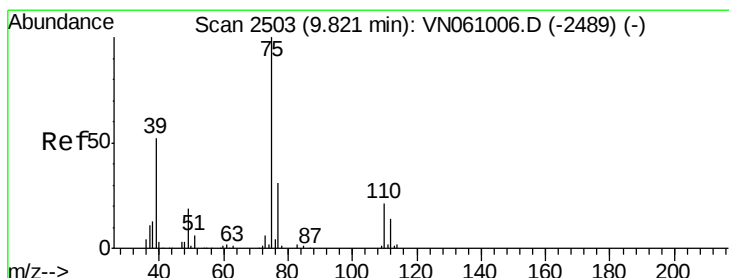
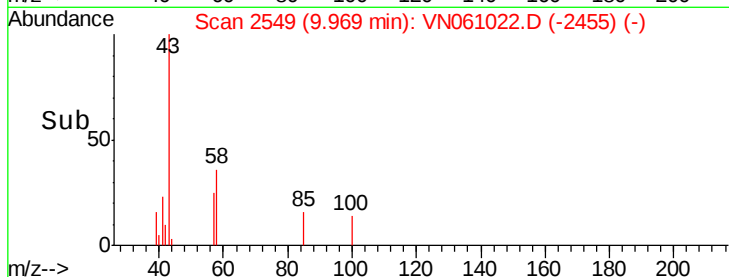
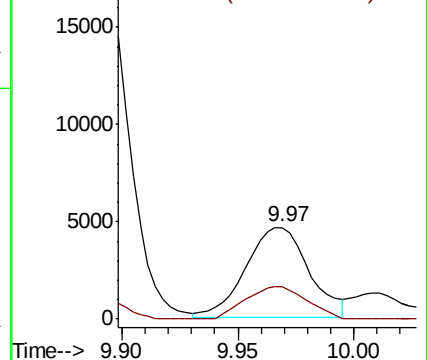
43 100

58 34.8 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-2530) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.161 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

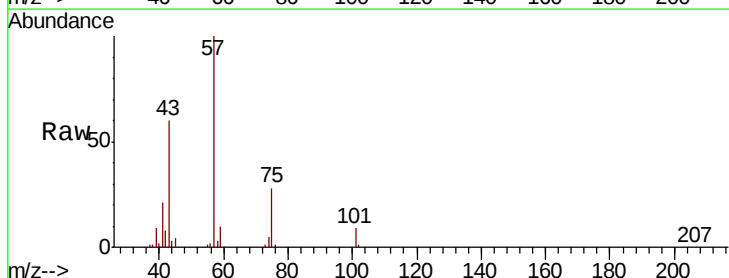
Tgt Ion: 75 Resp: 18122

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

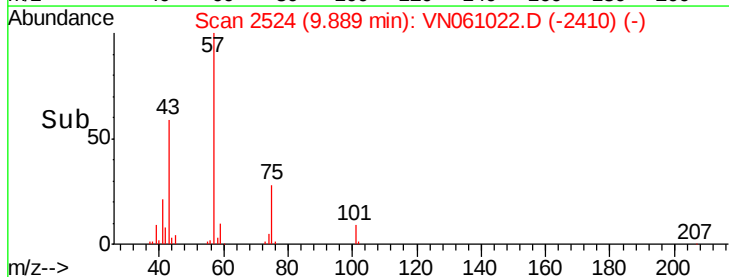
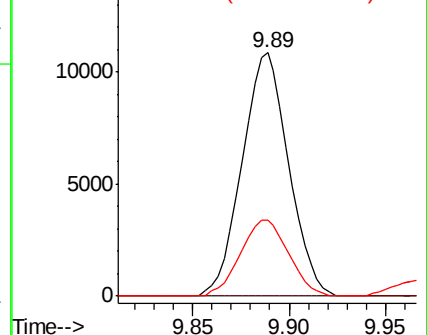
39 31.4 41.4 62.2#

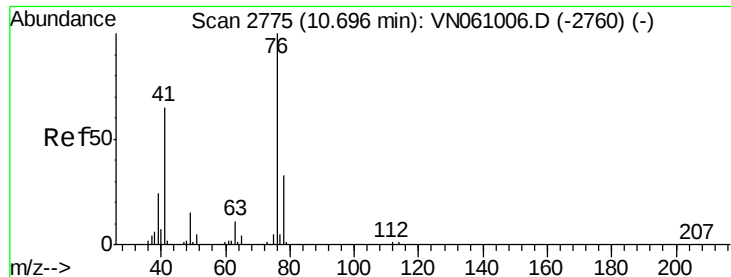


Abundance Ion 74.90 (74.60 to 75.60): VN061006.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN061006.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN061006.D (-2489) (-)





#57

1,3-Dichloropropane

Concen: 0.820 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

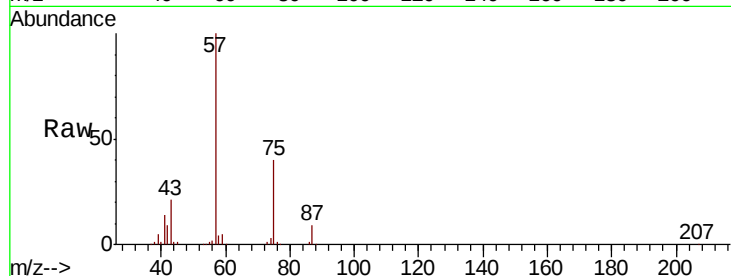
ClientSampleId :

Tot Ion: 76 Resp: 2797

Ion Ratio Lower Upper

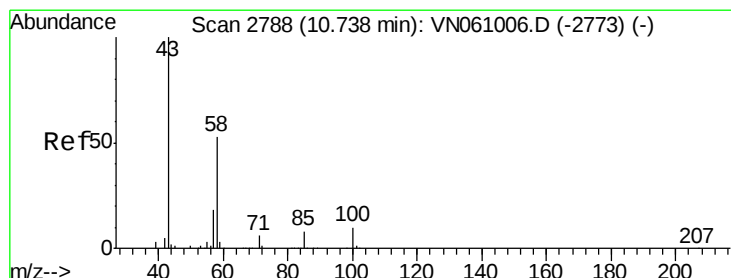
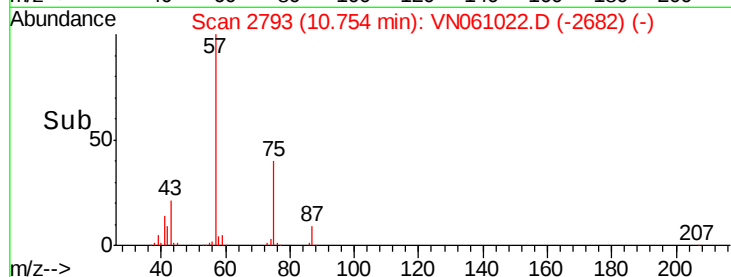
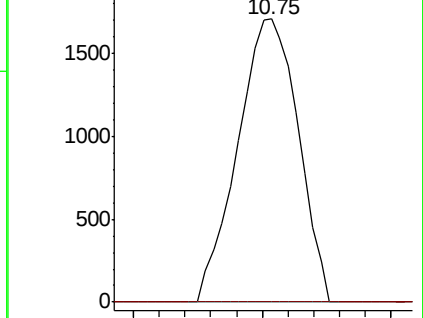
76 100

78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.190 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.02 min

Lab File: VN061022.D

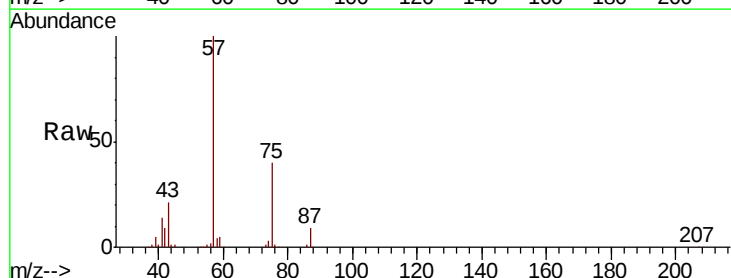
Acq: 16 Apr 2020 19:20

Tgt Ion: 43 Resp: 46244

Ion Ratio Lower Upper

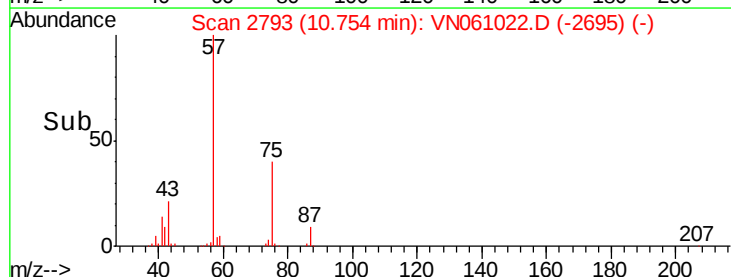
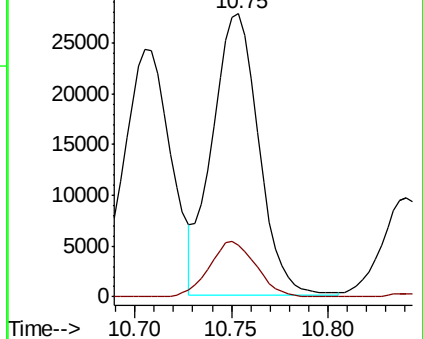
43 100

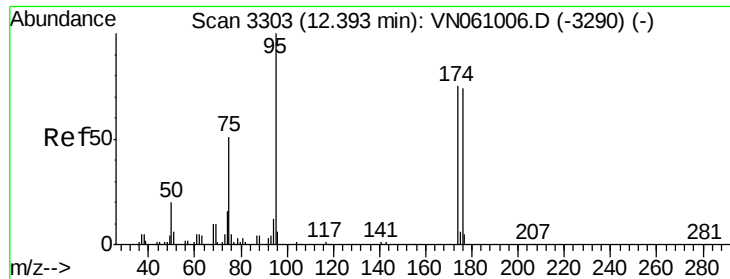
58 19.9 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 53.747 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

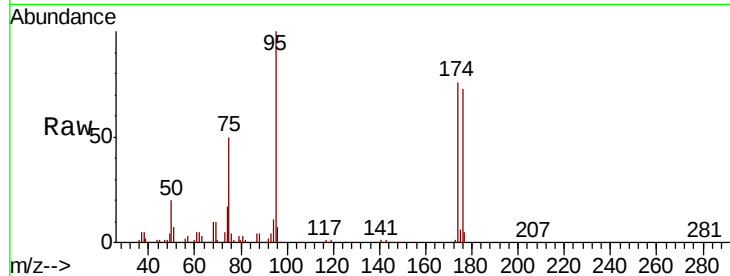
Tot Ion: 95 Resp: 127870

Ion Ratio Lower Upper

95 100

174 76.5 0.0 151.2

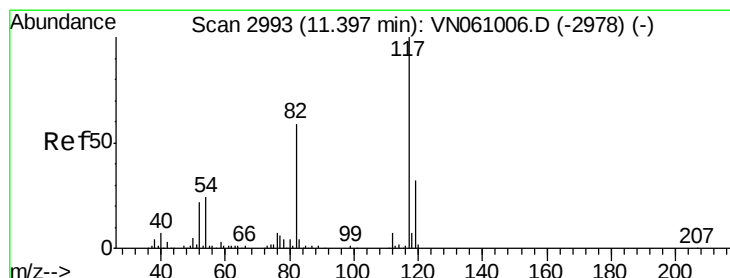
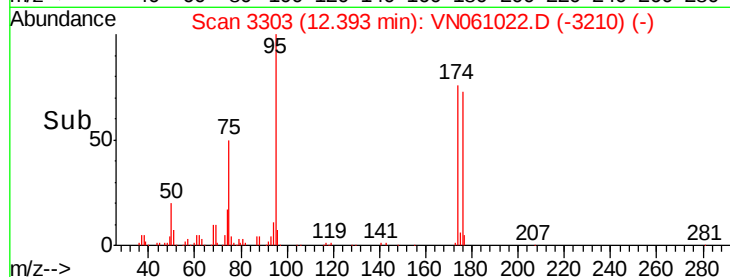
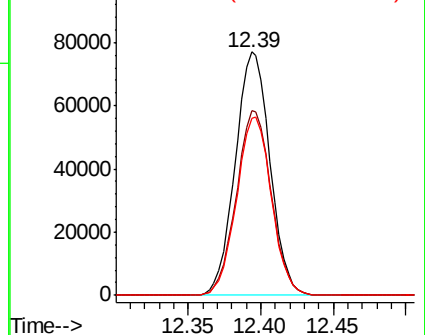
176 73.4 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

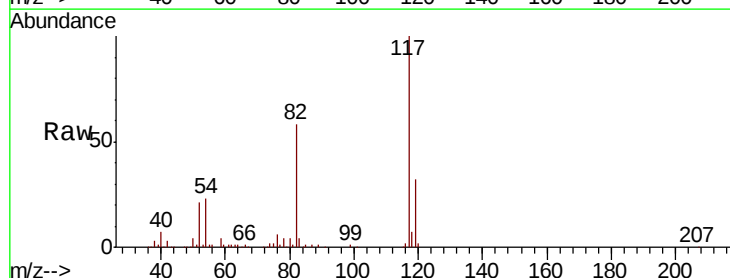
Tgt Ion: 117 Resp: 258645

Ion Ratio Lower Upper

117 100

82 58.1 47.1 70.7

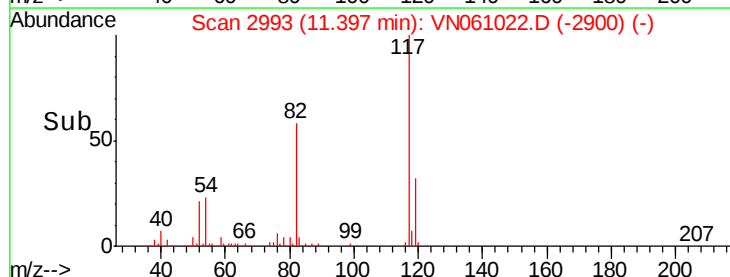
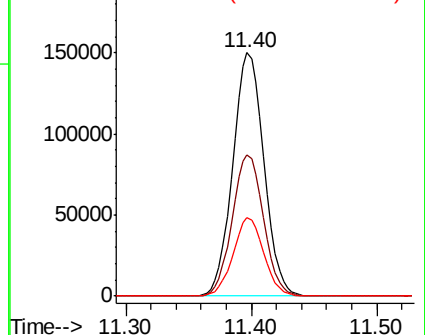
119 32.0 25.7 38.5

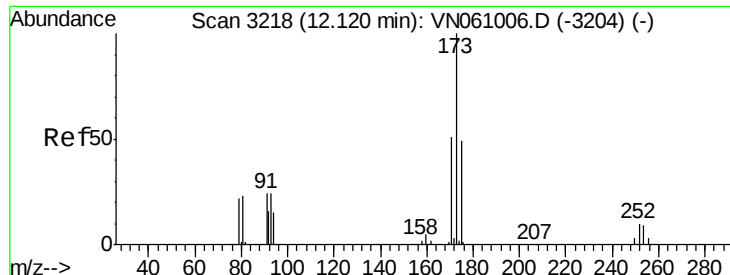


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)





#71

Bromoform

Concen: 0.569 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

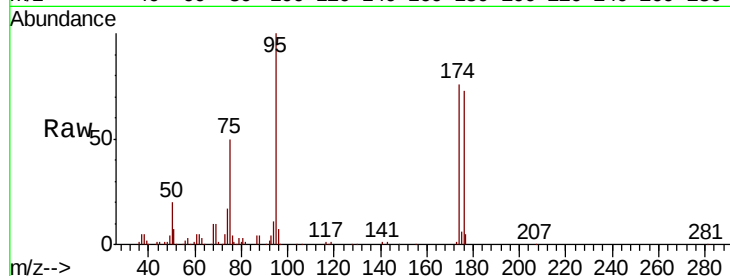
Tot Ion:173 Resp: 812

Ion Ratio Lower Upper

173 100

175 781.8 24.5 73.5#

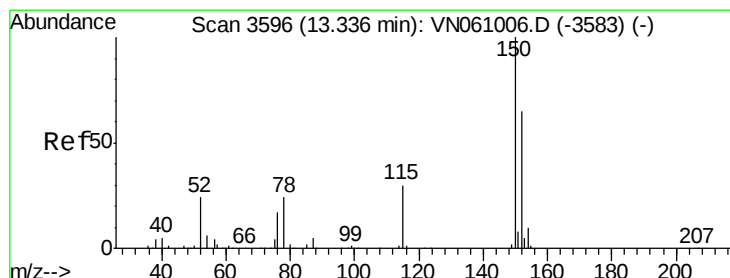
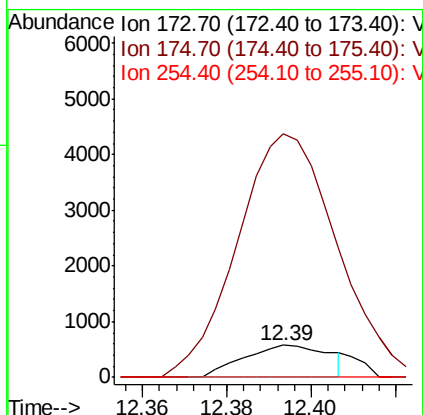
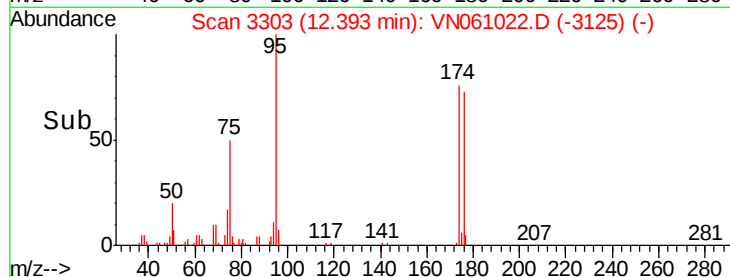
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

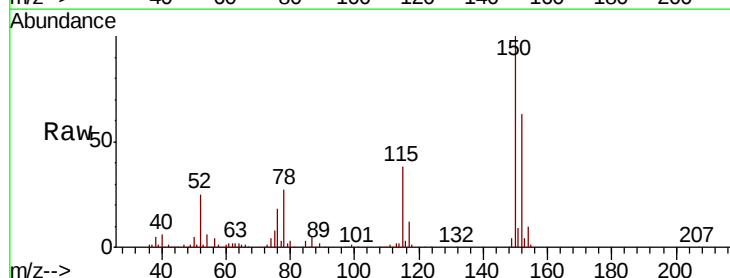
Tgt Ion:152 Resp: 114604

Ion Ratio Lower Upper

152 100

115 60.5 30.8 92.4

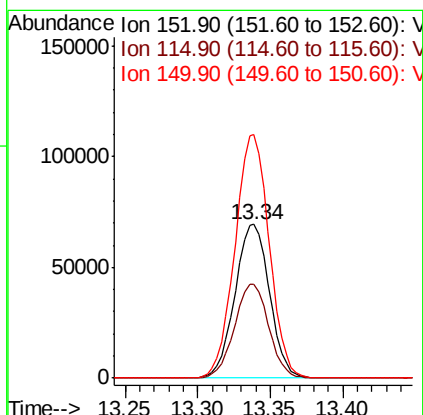
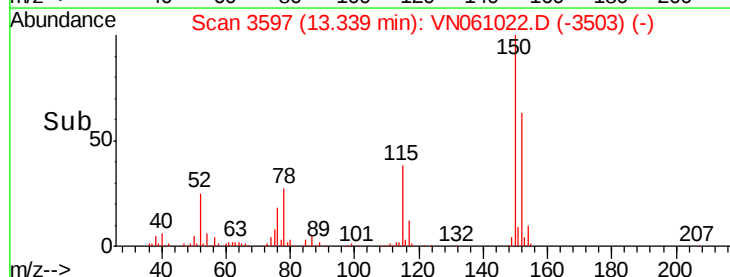
150 157.5 0.0 349.0

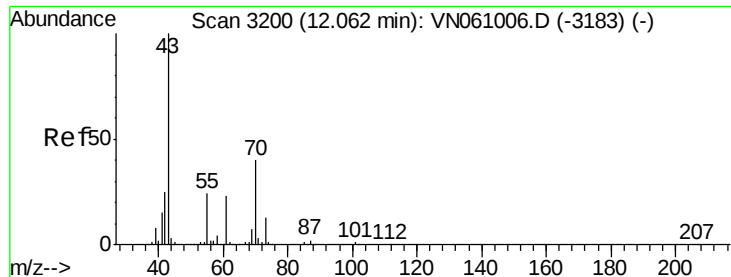


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.735 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN061022.D

Acq: 16 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3140

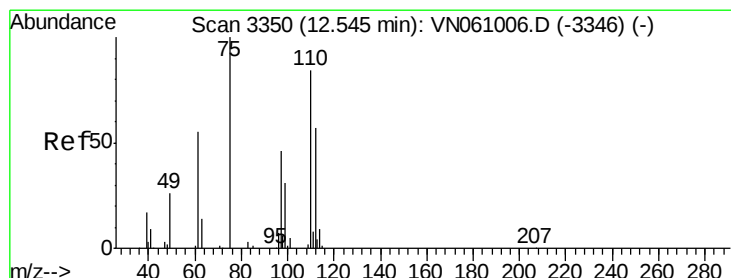
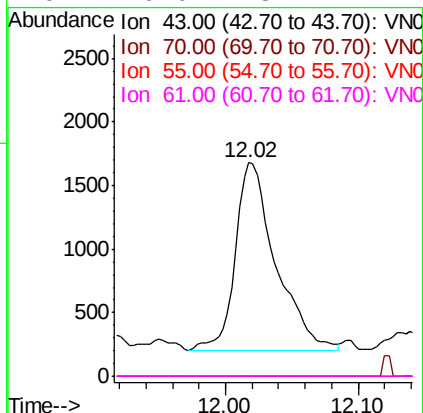
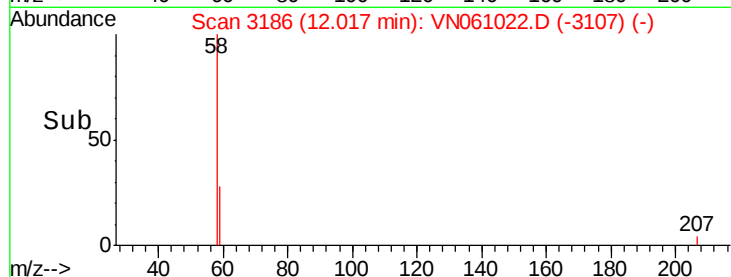
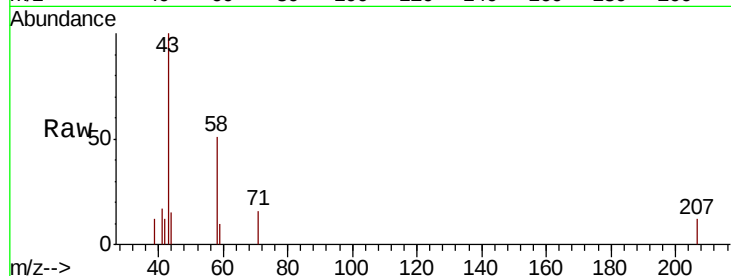
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 0.0 18.6 27.8#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 25.643 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061022.D

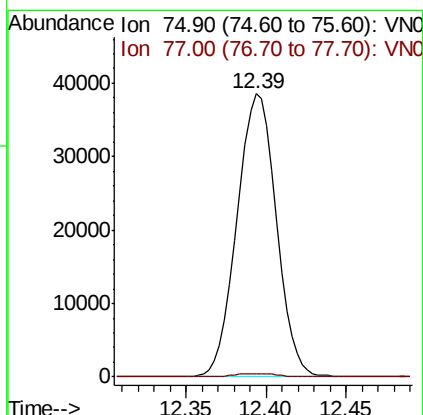
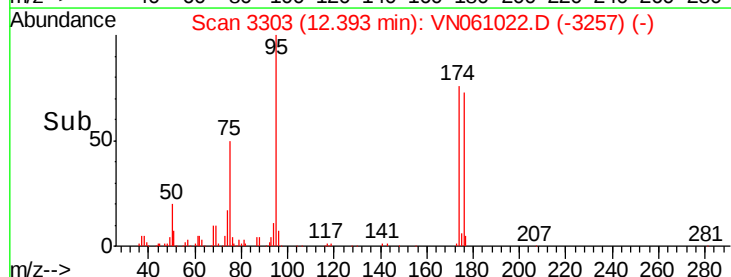
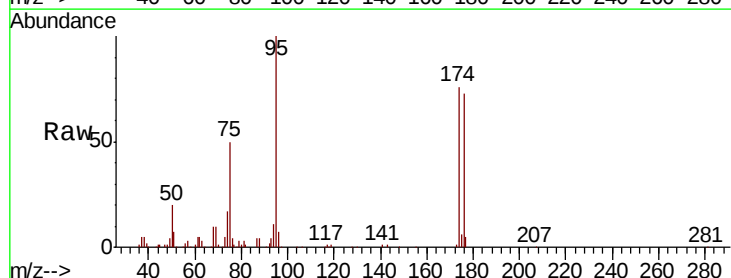
Acq: 16 Apr 2020 19:20

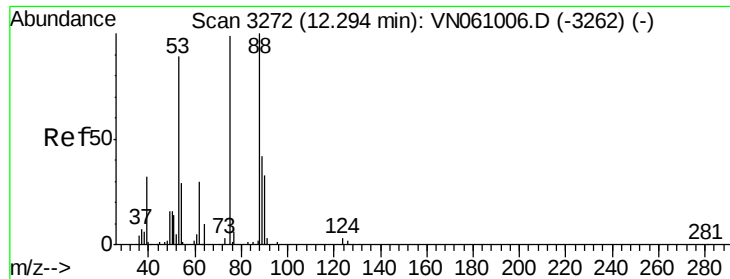
Tgt Ion: 75 Resp: 64642

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.251 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN061022.D
 Acq: 16 Apr 2020 19:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 64642
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 34.6 52.0#

