

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040820\
 Data File : VN060896.D
 Acq On : 8 Apr 2020 13:24
 Operator : JC/MD
 Sample : PB128095TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 08:26:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	323686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	305078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	133543	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	125766	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
35) Dibromofluoromethane	7.56	113	98001	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	10.08	98	401915	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.40	95	149109	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	

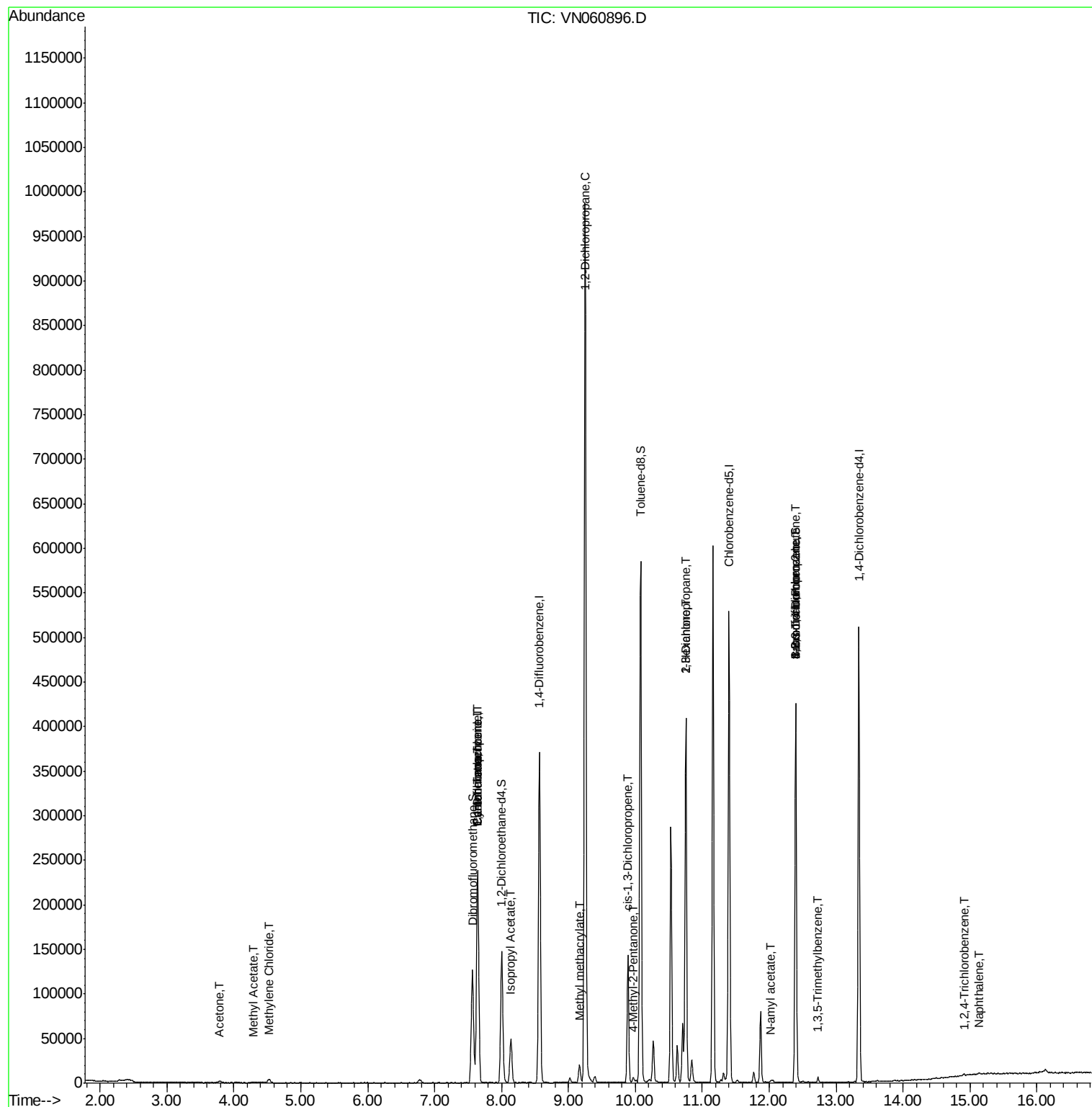
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3765	3.967	ug/l #	88
18) Methyl Acetate	4.29	43	1748	0.654	ug/l #	54
20) Methylene Chloride	4.52	84	3135	1.343	ug/l #	82
31) Cyclohexane	7.64	56	4290	0.994	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15086	4.813	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18411	6.554	ug/l #	17
43) Isopropyl Acetate	8.14	43	59296	10.617	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1168	0.468	ug/l #	43
48) Methyl methacrylate	9.16	41	2867	1.153	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4596	1.446	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	25334	6.410	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4203	1.102	ug/l #	42
59) 2-Hexanone	10.75	43	61547	26.883	ug/l #	52
71) Bromoform	12.40	173	519	1.956	ug/l #	1
74) N-amyl acetate	12.03	43	3600	0.777	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	74523	25.862	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3217	0.378	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.39	75	74523	66.421	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	562	0.225	ug/l #	71
95) Naphthalene	15.13	128	1894	0.252	ug/l #	75

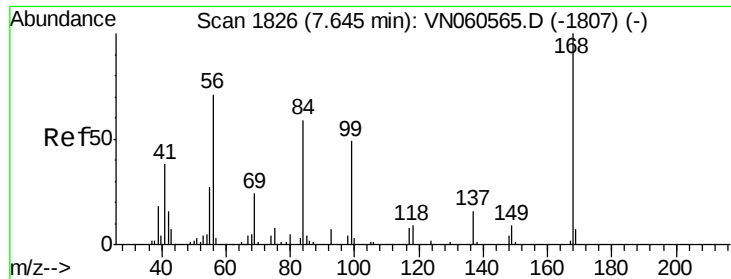
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

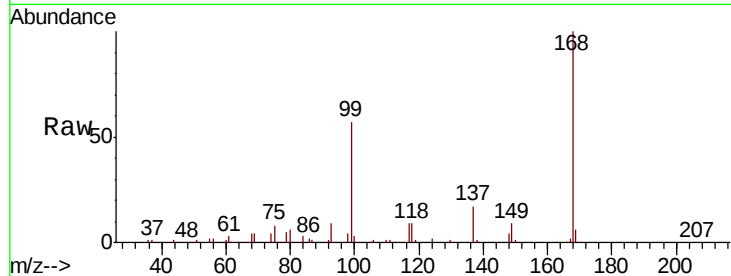
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 195198

Ion Ratio Lower Upper

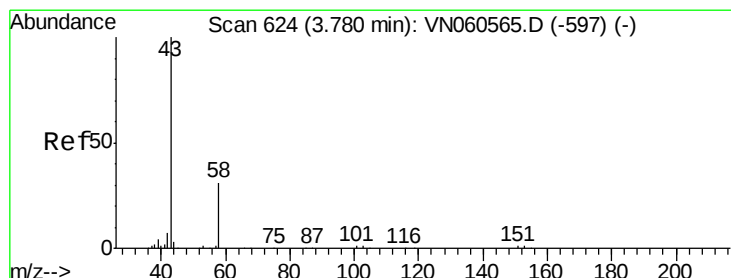
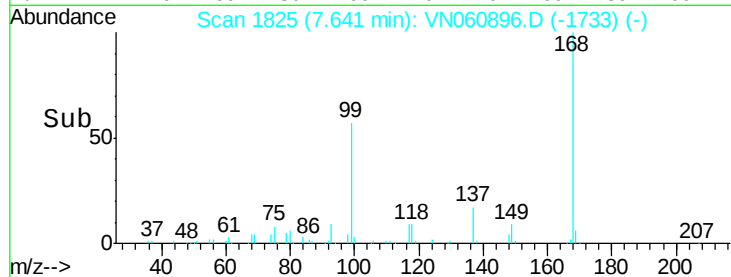
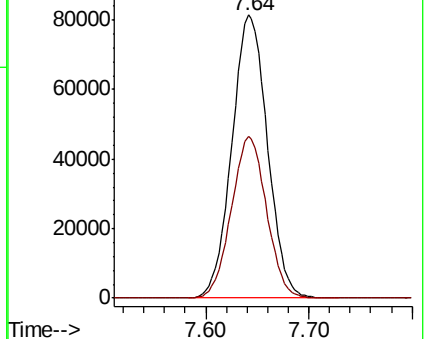
168 100

99 57.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 3.967 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060896.D

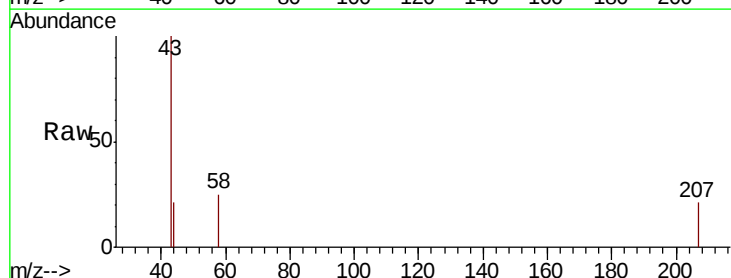
Acq: 8 Apr 2020 13:24

Tgt Ion: 43 Resp: 3765

Ion Ratio Lower Upper

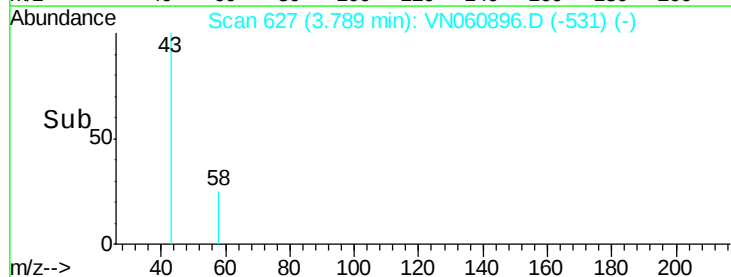
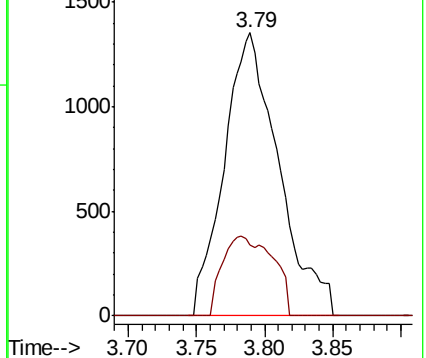
43 100

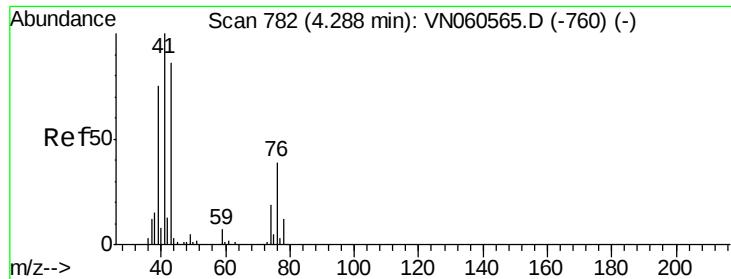
58 24.8 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

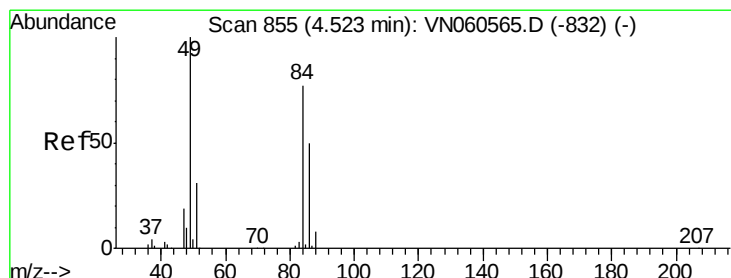
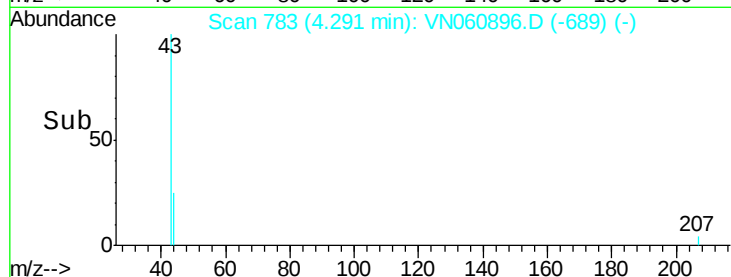
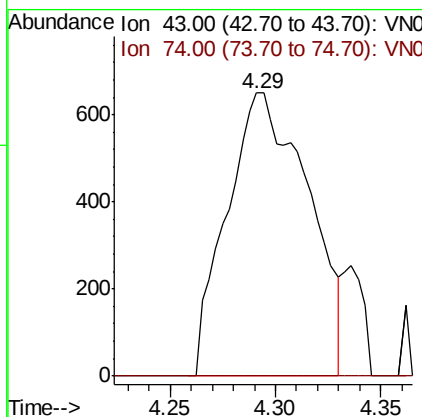
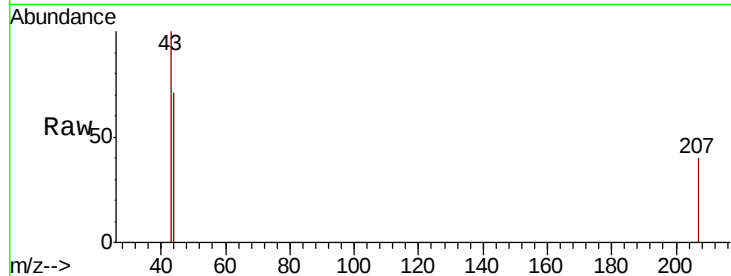




#18
Methyl Acetate
Concen: 0.654 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

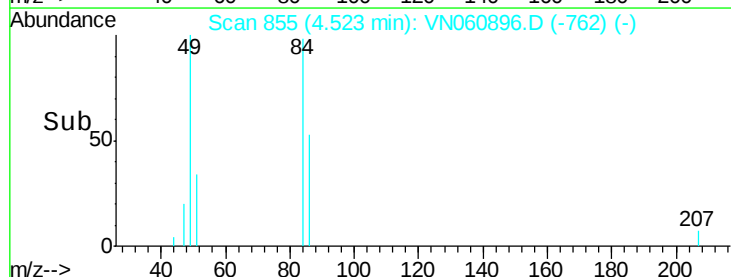
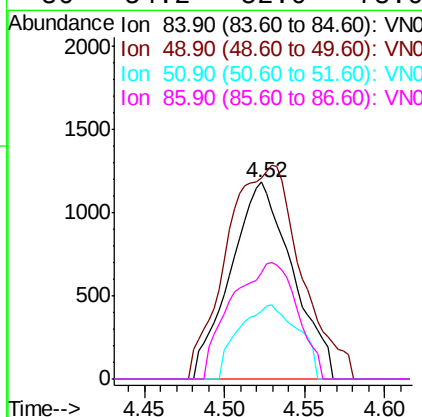
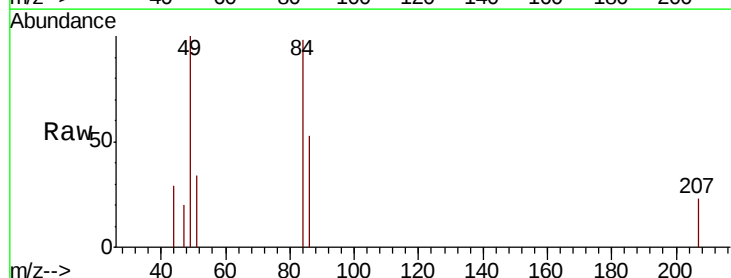
Instrument :
MSVOA_N
ClientSampleId :

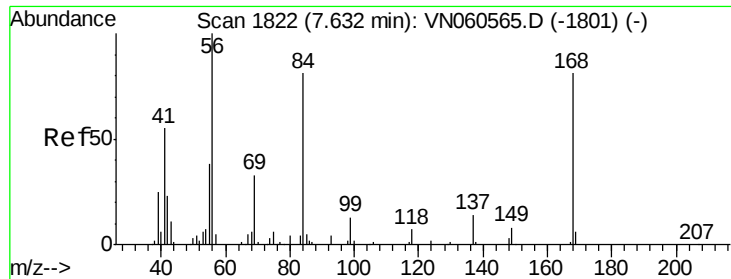
Tot Ion: 43 Resp: 1748
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.343 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion: 84 Resp: 3135
Ion Ratio Lower Upper
84 100
49 102.0 103.3 154.9#
51 34.3 31.6 47.4
86 54.2 52.0 78.0

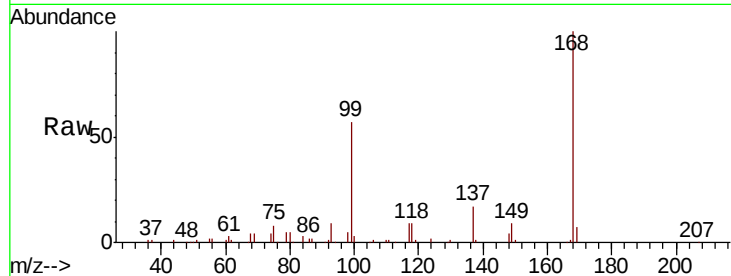




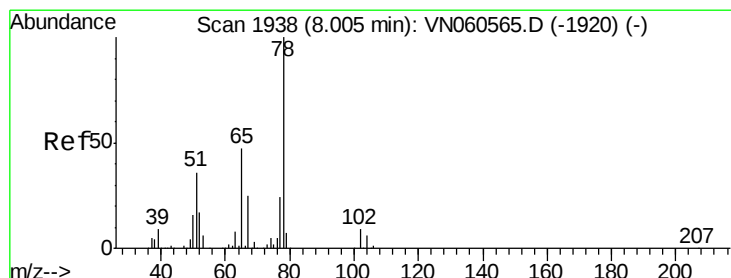
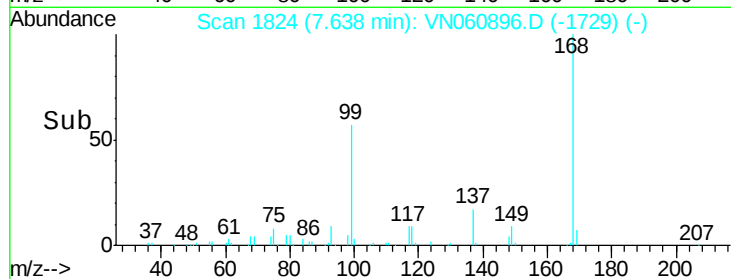
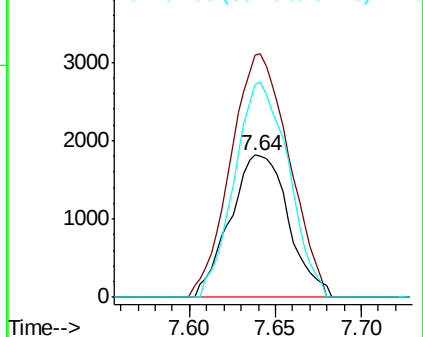
#31
Cyclohexane
Concen: 0.994 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4290
Ion Ratio Lower Upper
56 100
69 170.5 26.6 40.0#
84 149.4 64.3 96.5#

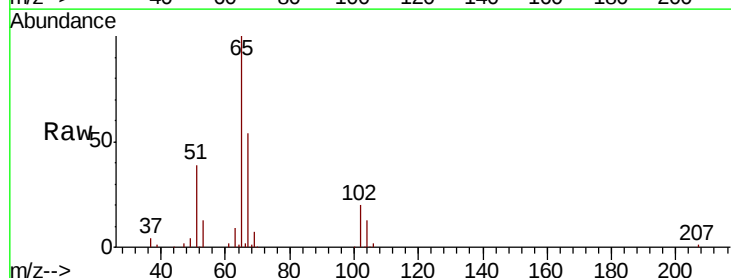


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

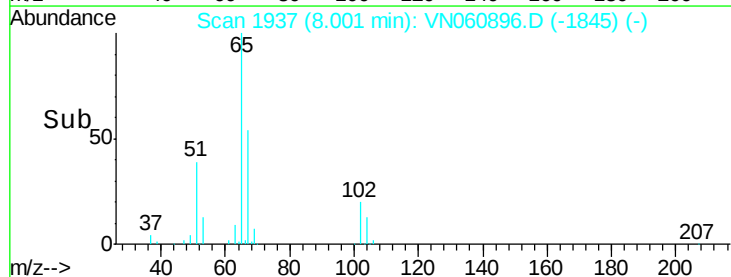
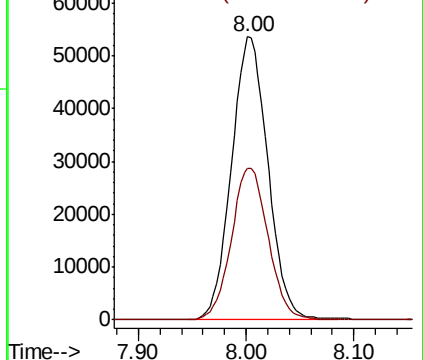


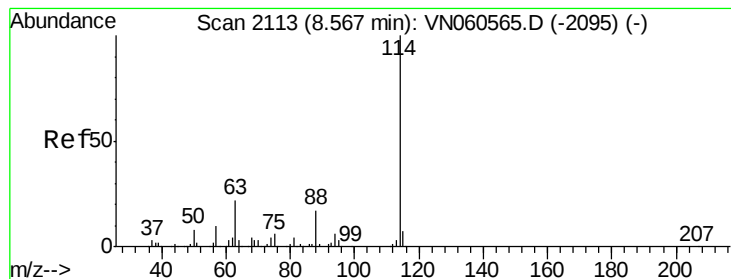
#33
1,2-Dichloroethane-d4
Concen: 46.934 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion: 65 Resp: 125766
Ion Ratio Lower Upper
65 100
67 54.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

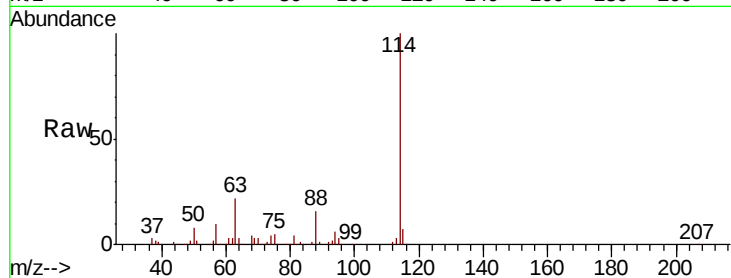
Tot Ion:114 Resp: 323686

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.8

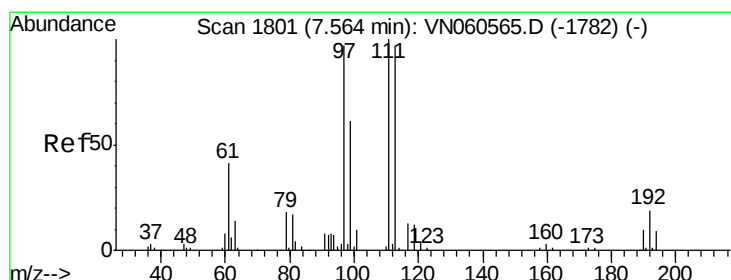
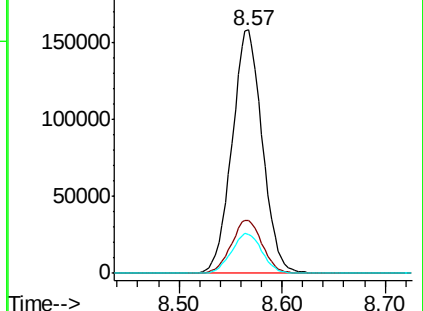
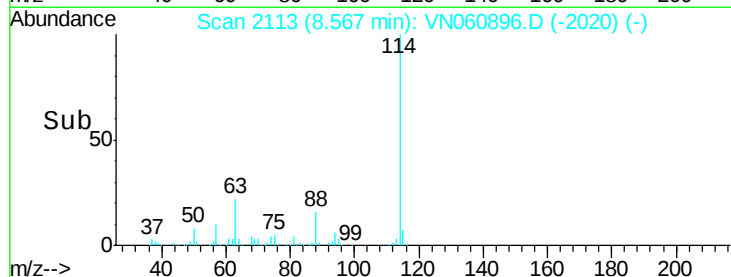
88 16.1 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.071 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

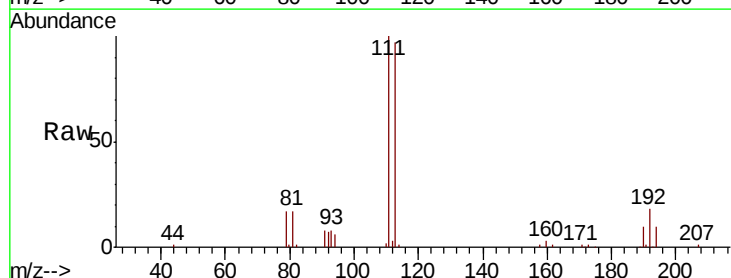
Tgt Ion:113 Resp: 98001

Ion Ratio Lower Upper

113 100

111 102.0 82.9 124.3

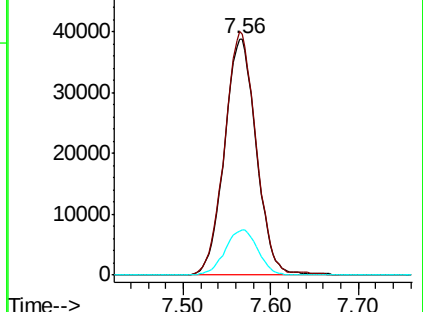
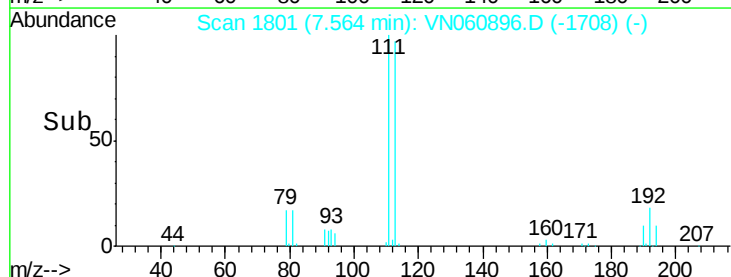
192 19.6 15.8 23.8

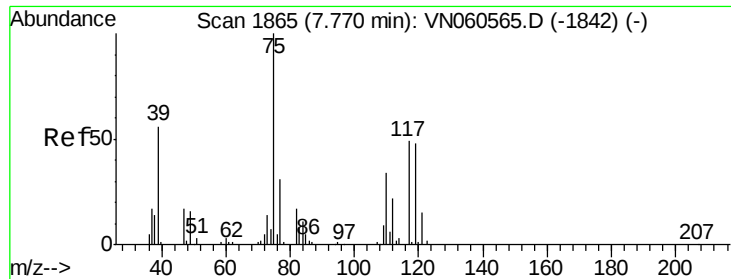


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

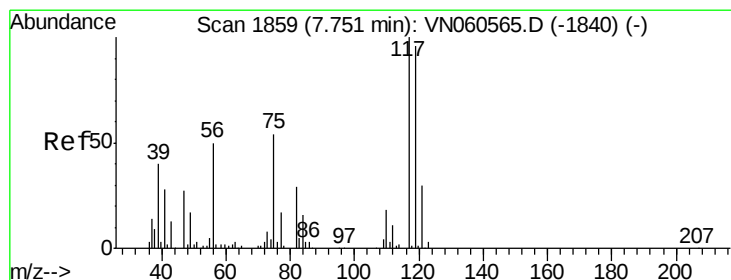
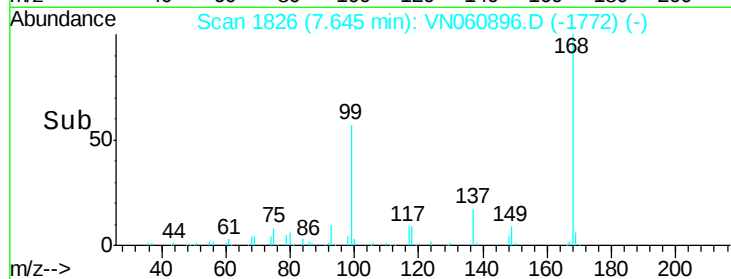
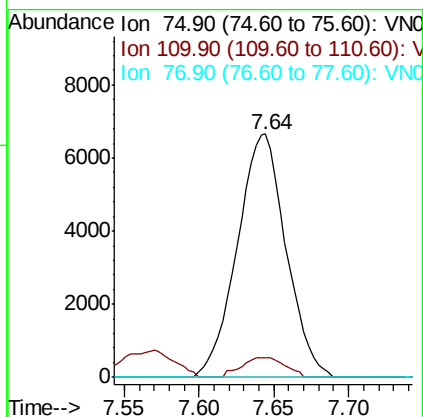
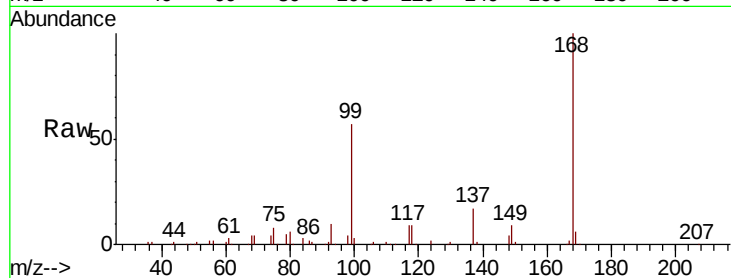




#36
 1,1-Dichloropropene
 Concen: 4.813 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060896.D
 Acq: 8 Apr 2020 13:24

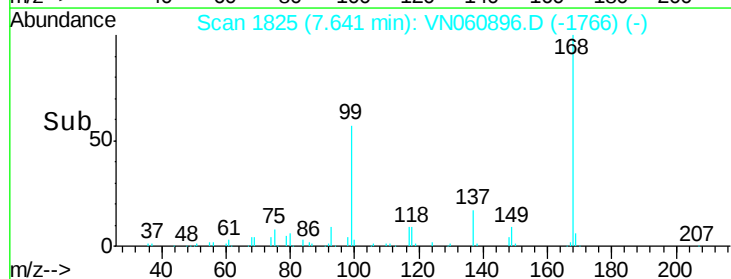
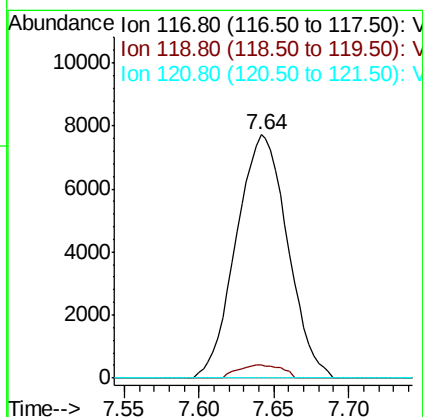
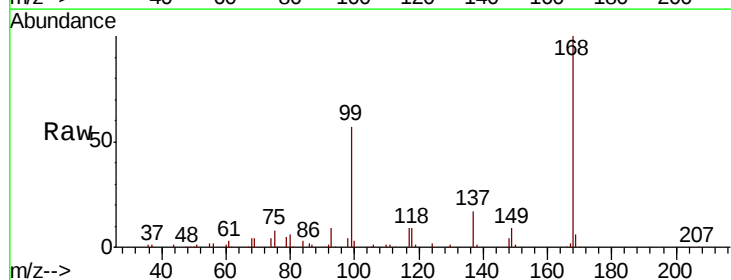
Instrument :
 MSVOA_N
 ClientSampled :

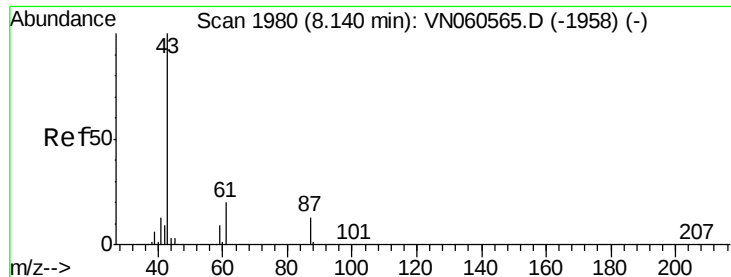
Tot Ion	75	Resp	15086
Ion Ratio	100	Lower	Upper
75	100		
110	7.2	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.554 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060896.D
 Acq: 8 Apr 2020 13:24

Tgt Ion	117	Resp	18411
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.4	76.2	114.2#
121	0.0	23.7	35.5#

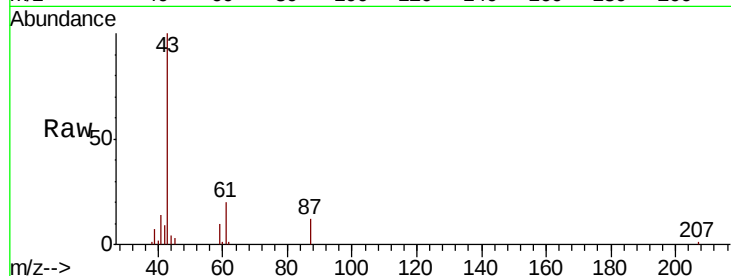




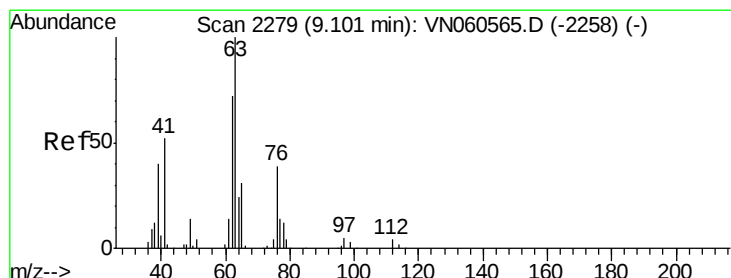
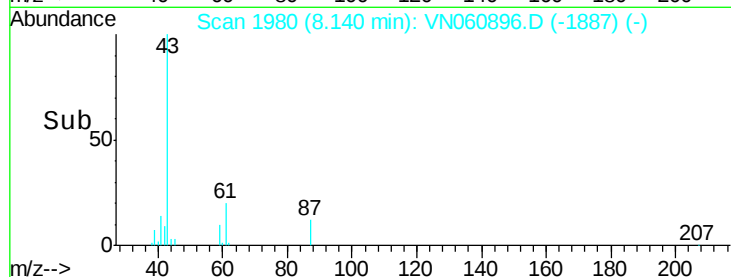
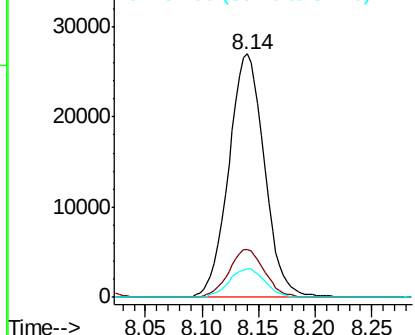
#43
Isopropyl Acetate
Concen: 10.617 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 59296
Ion Ratio Lower Upper
43 100
61 19.4 20.7 31.1#
87 11.7 9.8 14.8

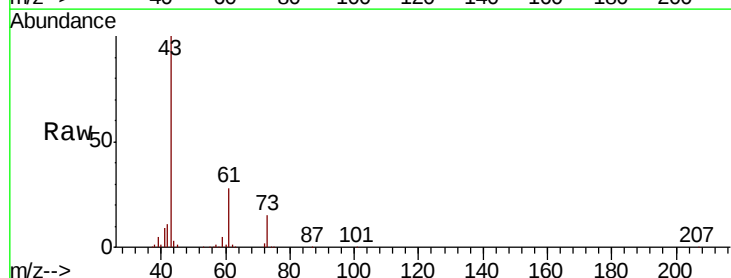


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

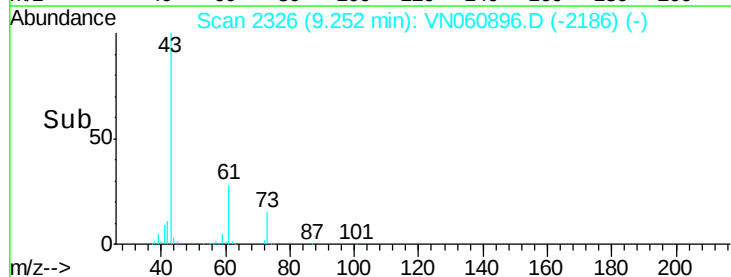
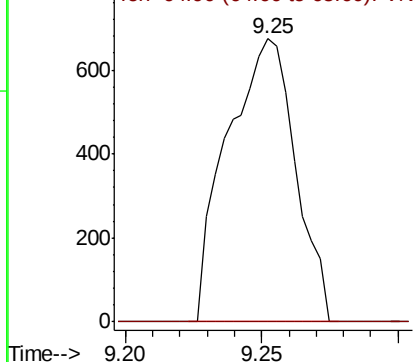


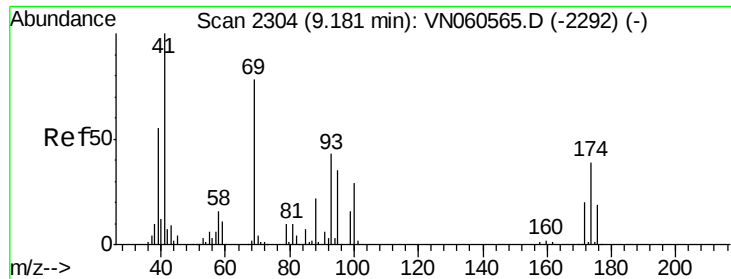
#45
1,2-Dichloropropane
Concen: 0.468 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.15 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion: 63 Resp: 1168
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

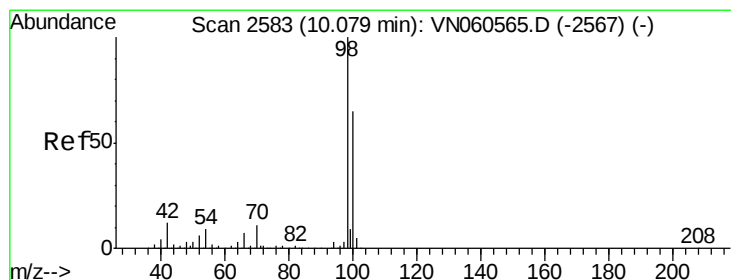
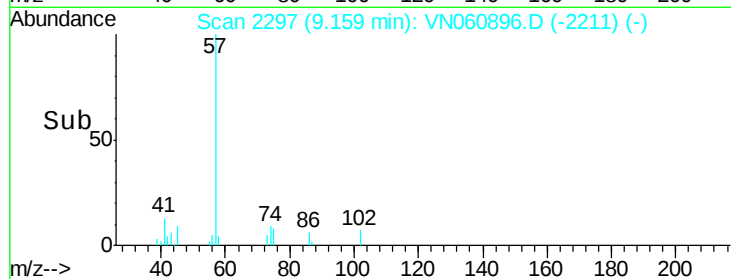
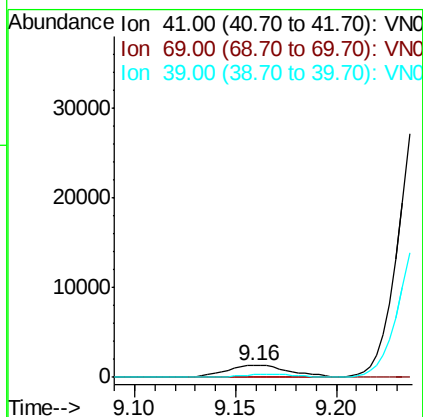
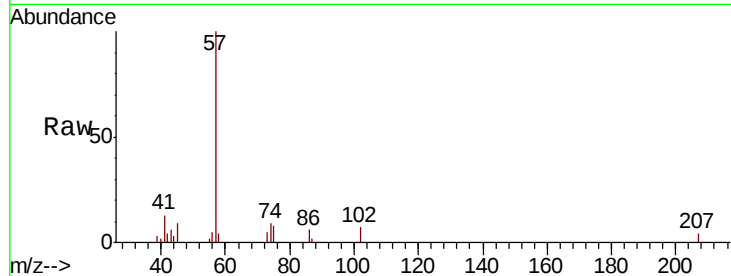




#48
Methvl methacrylate
Concen: 1.153 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

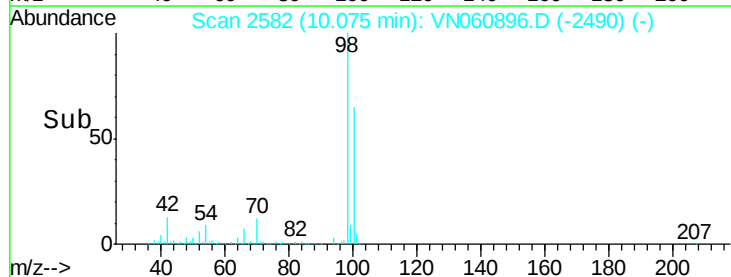
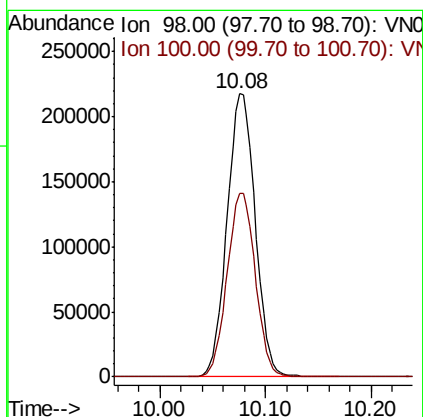
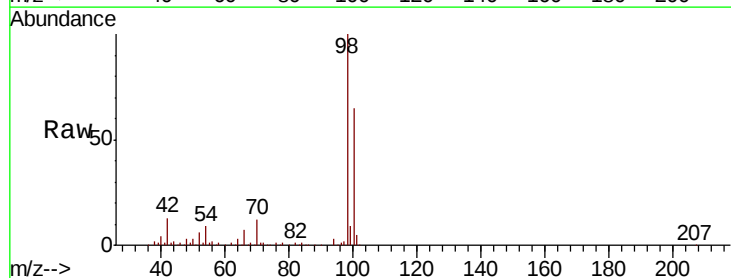
Instrument :
MSVOA_N
ClientSampleId :

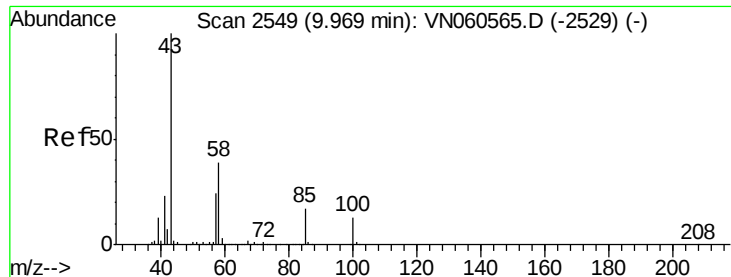
Tot Ion: 41 Resp: 2867
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.274 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion: 98 Resp: 401915
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.446 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

Instrument :

MSVOA_N

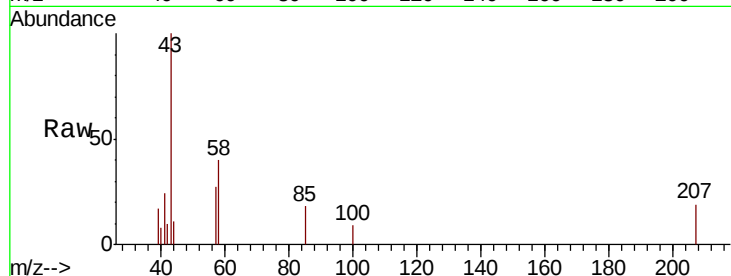
ClientSampled :

Tot Ion: 43 Resp: 4596

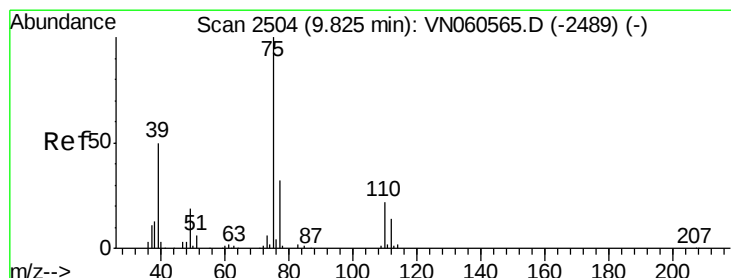
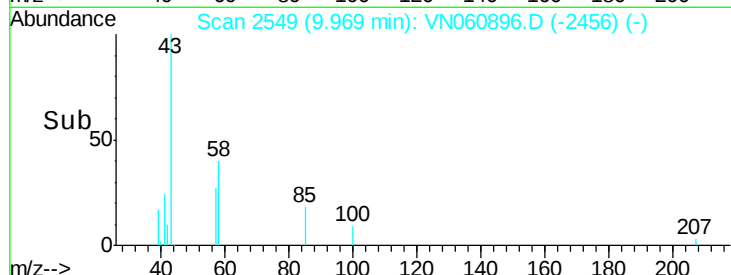
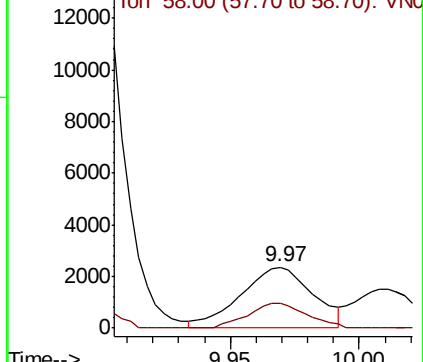
Ion Ratio Lower Upper

43 100

58 33.7 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060896.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.410 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

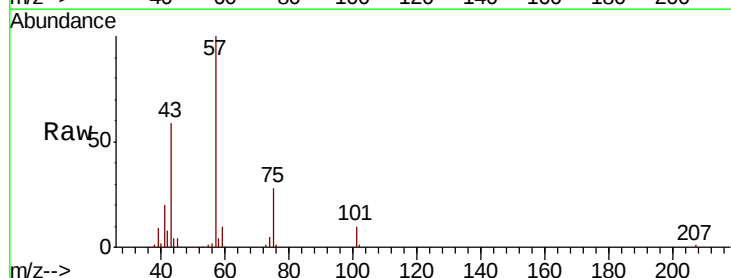
Tgt Ion: 75 Resp: 25334

Ion Ratio Lower Upper

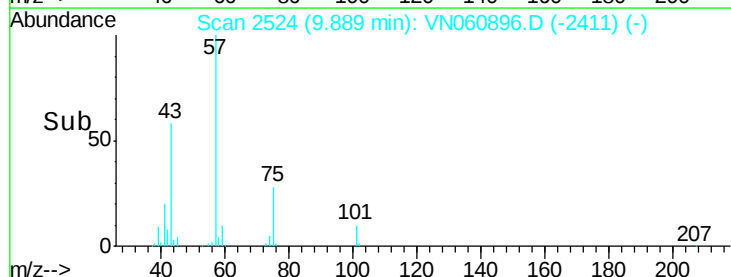
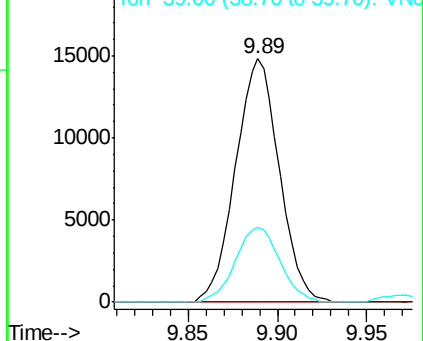
75 100

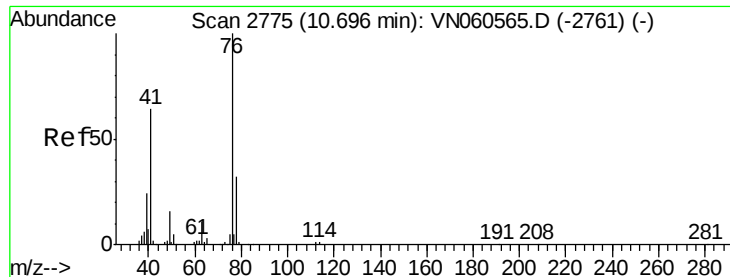
77 0.0 25.4 38.0#

39 30.8 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060896.D (-2411) (-)

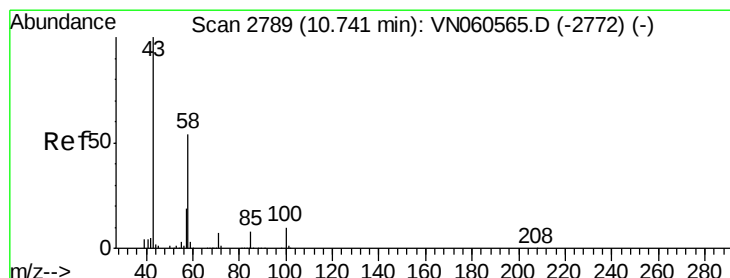
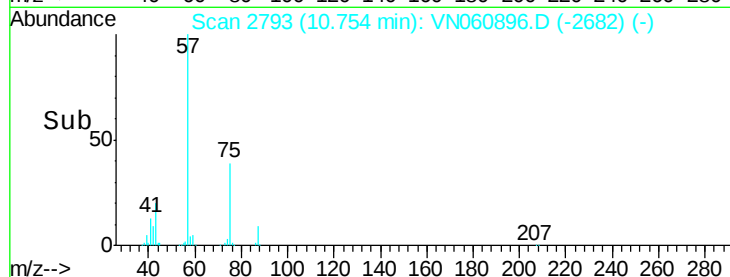
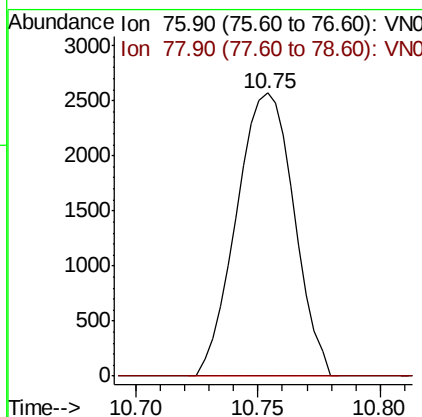
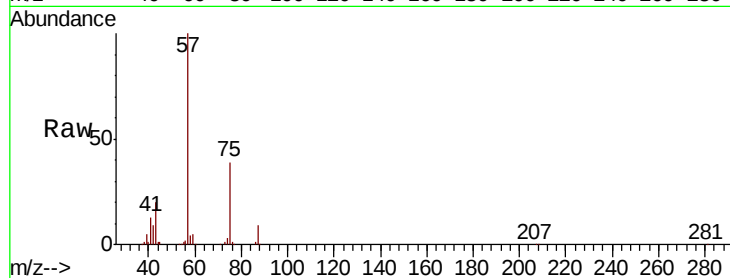




#57
 1,3-Dichloropropane
 Concen: 1.102 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060896.D
 Acq: 8 Apr 2020 13:24

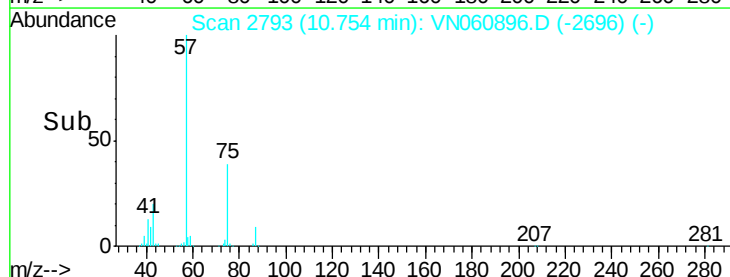
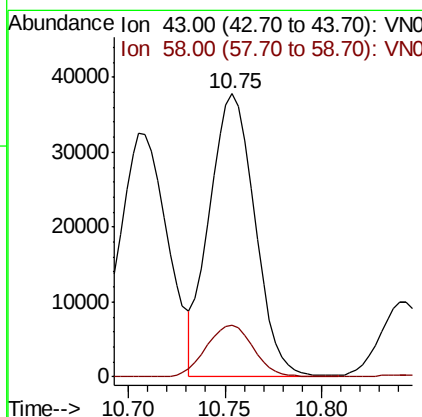
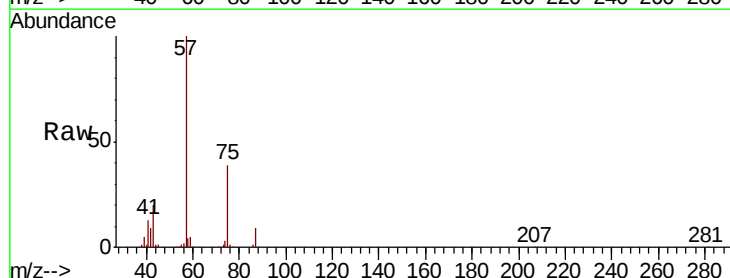
Instrument :
 MSVOA_N
 ClientSampled :

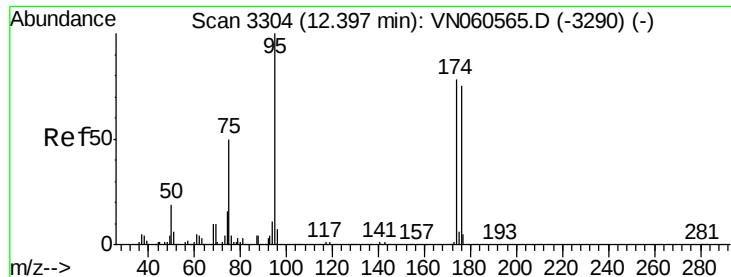
Tot Ion: 76 Resp: 4203
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 26.883 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060896.D
 Acq: 8 Apr 2020 13:24

Tgt Ion: 43 Resp: 61547
 Ion Ratio Lower Upper
 43 100
 58 19.2 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.893 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

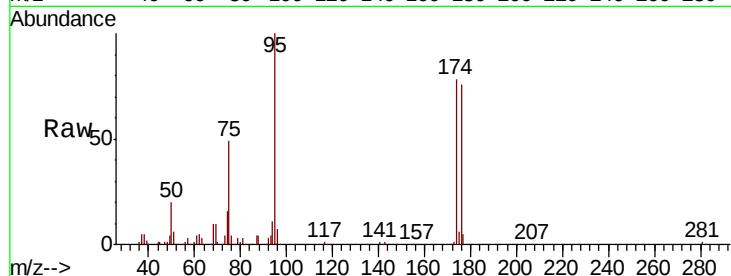
Tot Ion: 95 Resp: 149109

Ion Ratio Lower Upper

95 100

174 78.9 0.0 157.6

176 76.0 0.0 150.6

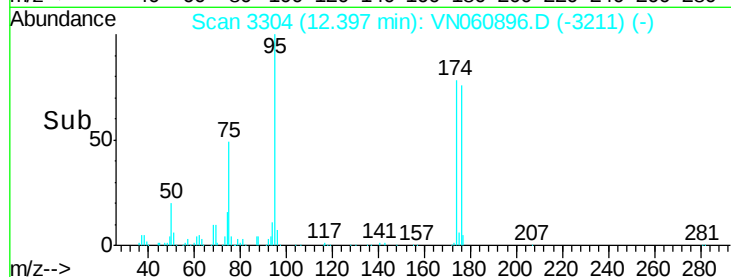


Abundance Ion 94.90 (94.60 to 95.60): VN060896.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060896.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060896.D (-3290) (-)

Time--> 12.30 12.35 12.40 12.45

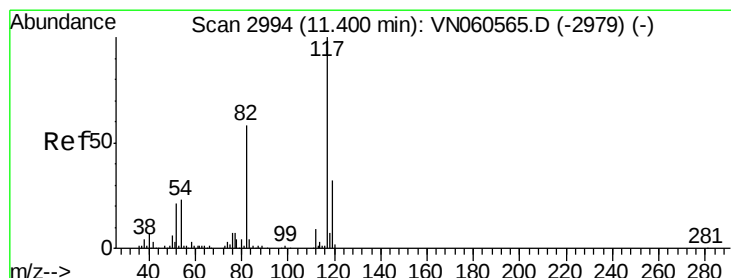


Abundance Ion 94.90 (94.60 to 95.60): VN060896.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060896.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060896.D (-3211) (-)

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

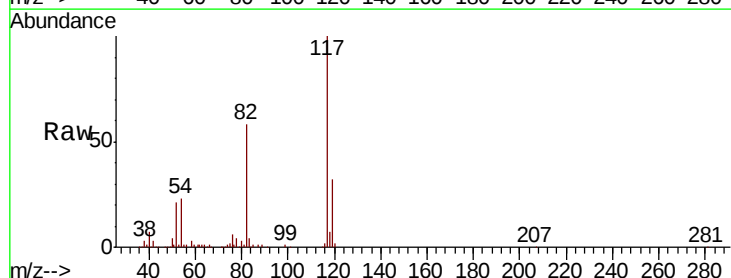
Tgt Ion: 117 Resp: 305078

Ion Ratio Lower Upper

117 100

82 58.3 46.7 70.1

119 31.9 25.5 38.3

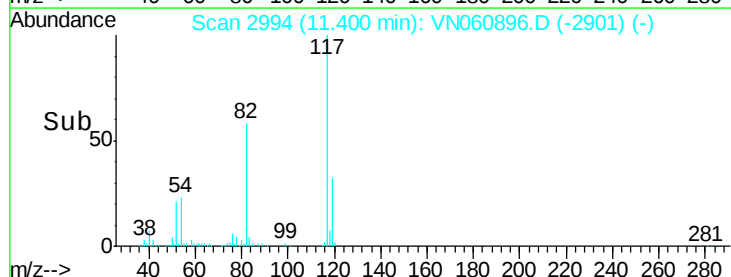


Abundance Ion 116.90 (116.60 to 117.60): VN060896.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060896.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060896.D (-2979) (-)

Time--> 11.30 11.40 11.50

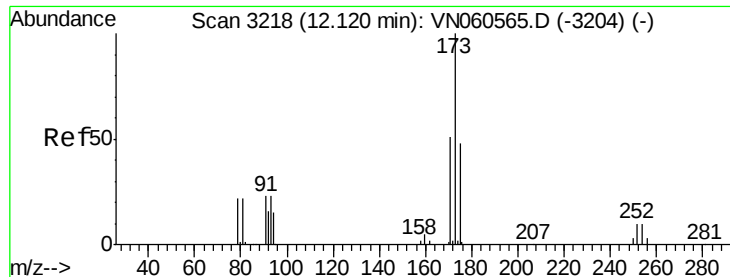


Abundance Ion 116.90 (116.60 to 117.60): VN060896.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060896.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060896.D (-2901) (-)

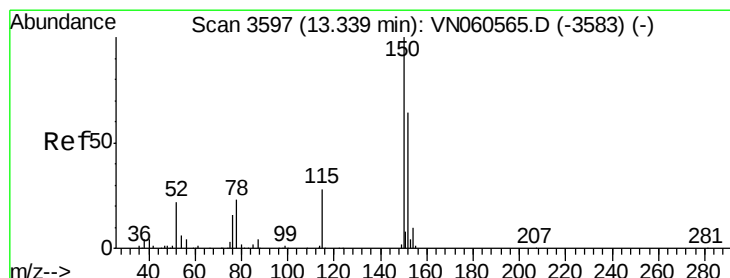
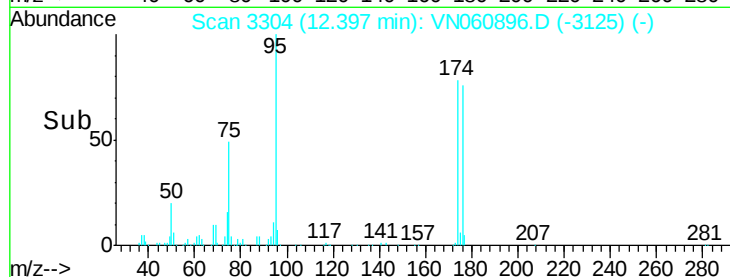
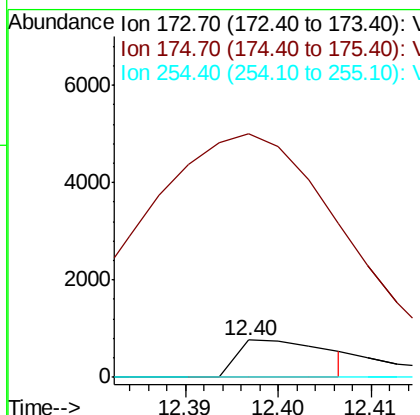
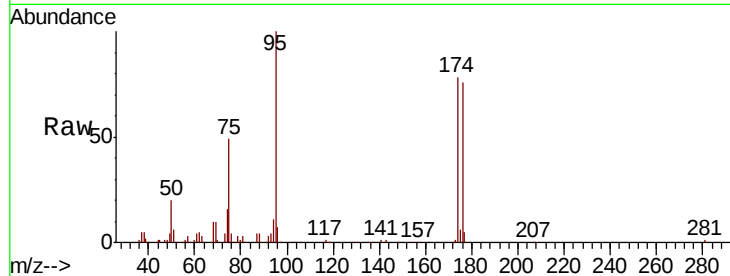
Time--> 11.30 11.40 11.50



#71
Bromoform
Concen: 1.956 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

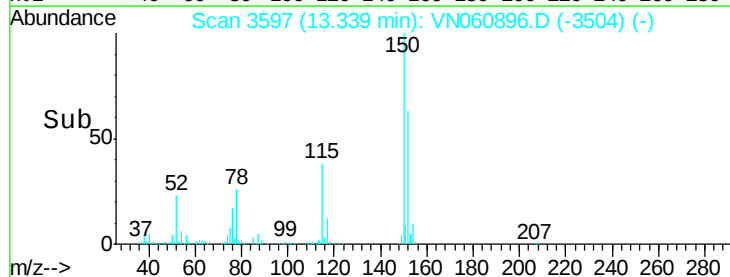
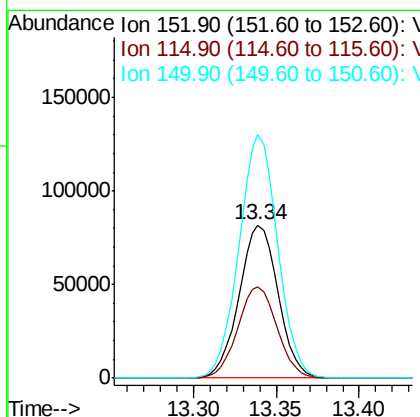
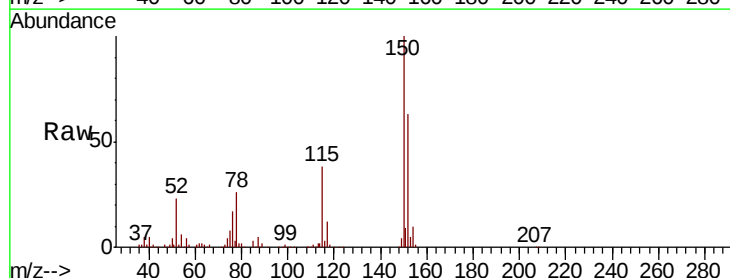
Instrument :
MSVOA_N
ClientSampled :

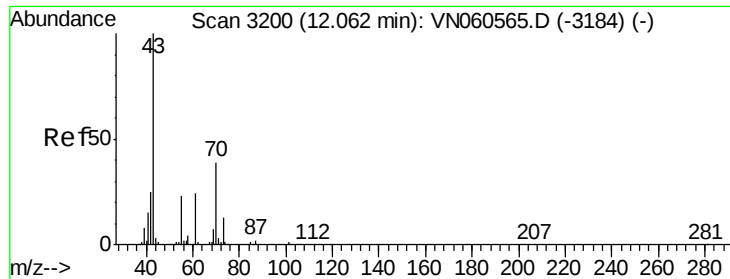
Tot Ion:173 Resp: 519
Ion Ratio Lower Upper
173 100
175 1380.0 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion:152 Resp: 133543
Ion Ratio Lower Upper
152 100
115 60.3 30.2 90.6
150 157.7 0.0 350.2

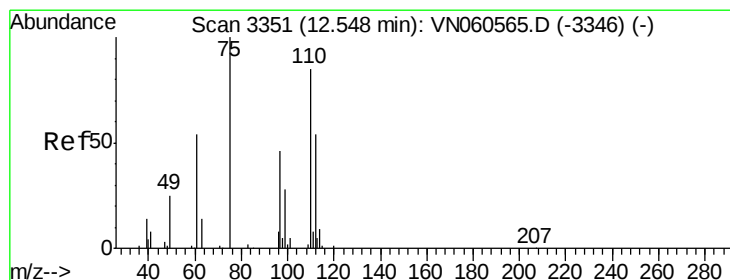
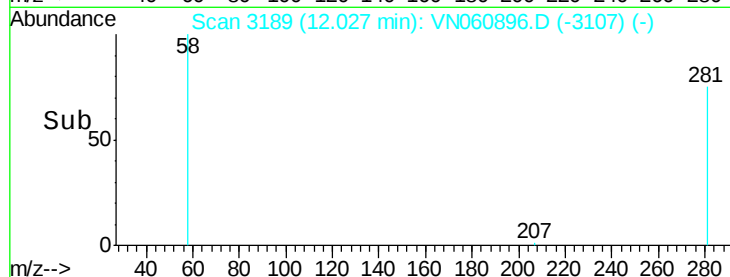
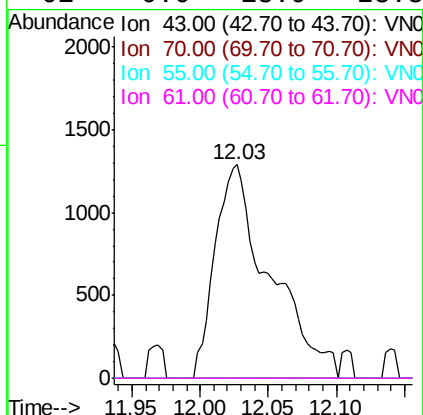
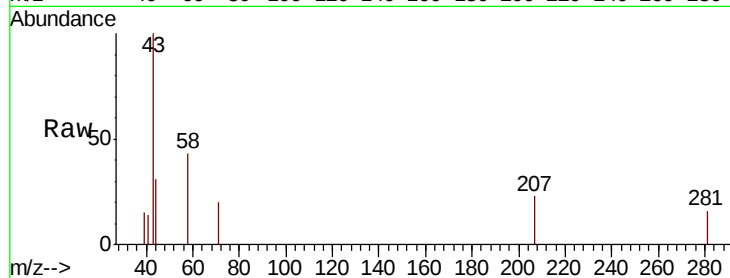




#74
N-amvl acetate
Concen: 0.777 ug/l
RT: 12.03 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

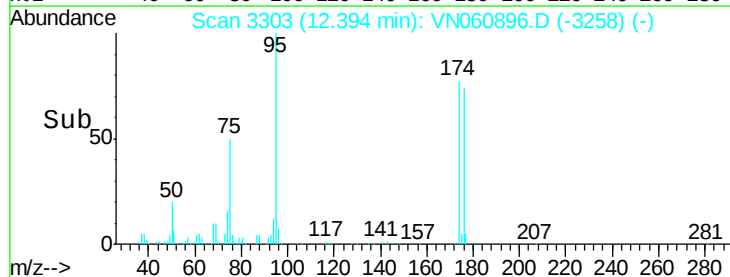
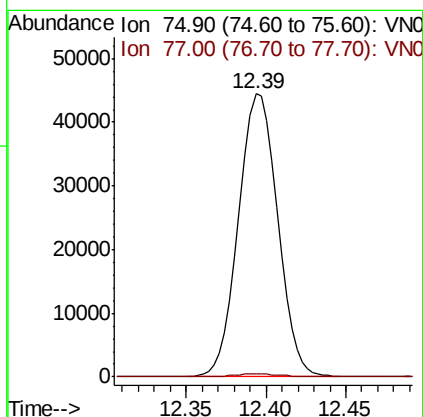
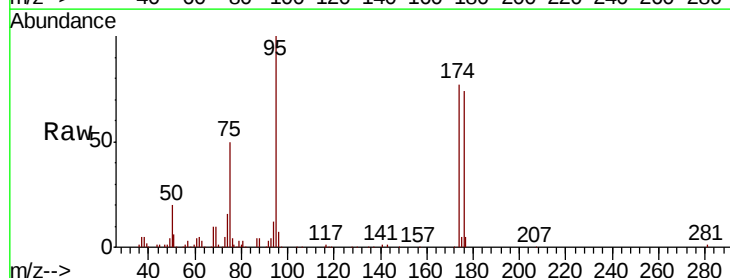
Instrument :
MSVOA_N
ClientSampleId :

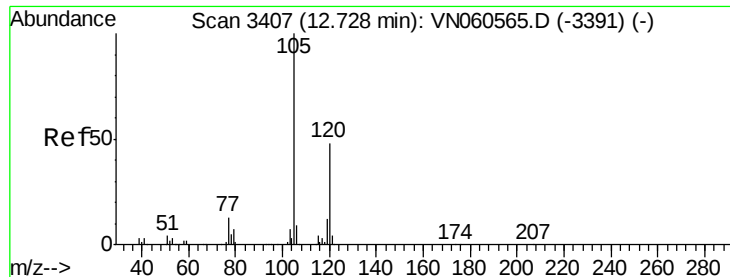
Tot Ion: 43 Resp: 3600
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 0.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 25.862 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.15 min
Lab File: VN060896.D
Acq: 8 Apr 2020 13:24

Tgt Ion: 75 Resp: 74523
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.378 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

Instrument :

MSVOA_N

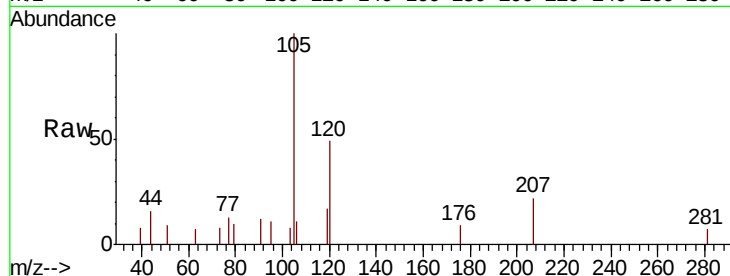
ClientSampled :

Tot Ion:105 Resp: 3217

Ion Ratio Lower Upper

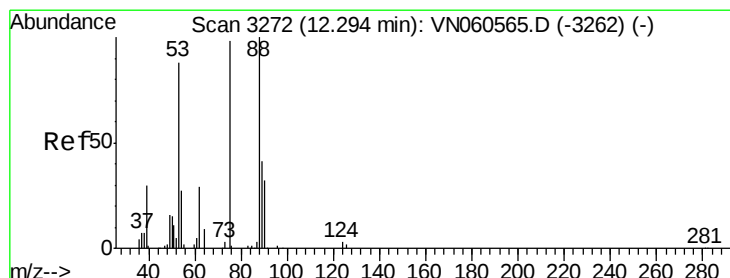
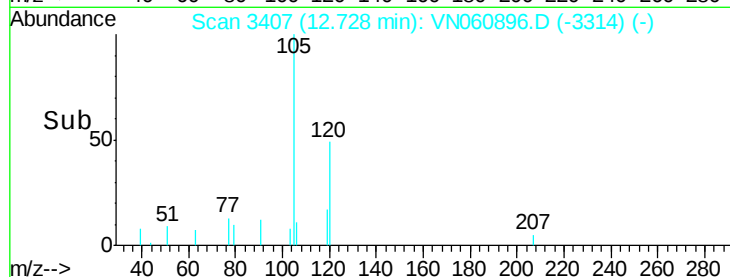
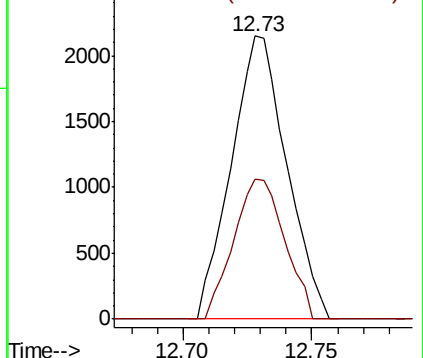
105 100

120 45.7 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.421 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

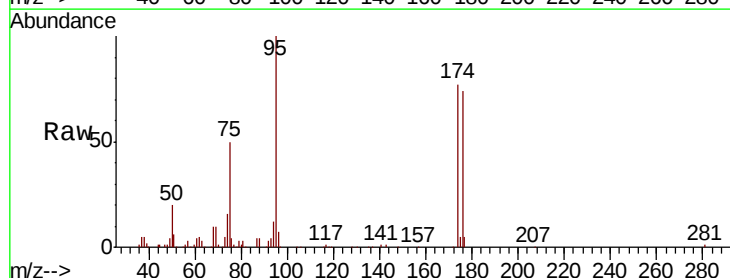
Tgt Ion: 75 Resp: 74523

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

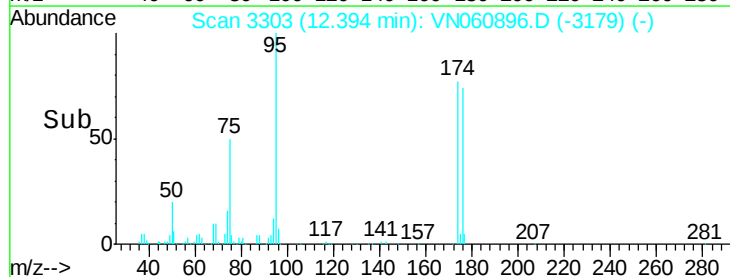
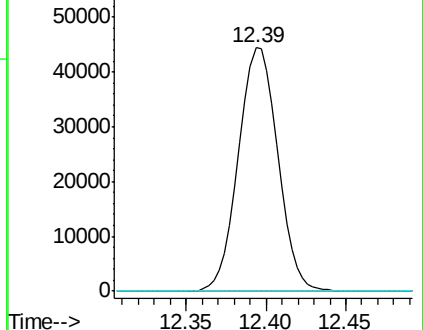
89 0.0 34.8 52.2#

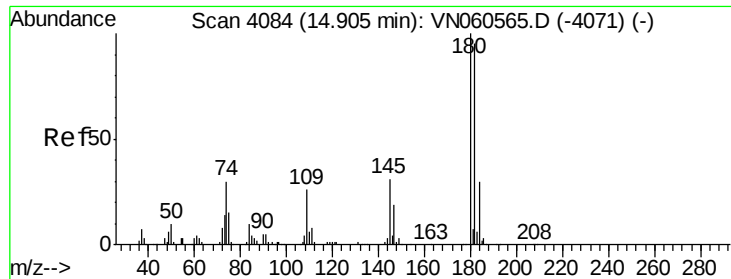


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 0.225 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

Instrument :

MSVOA_N

ClientSampled :

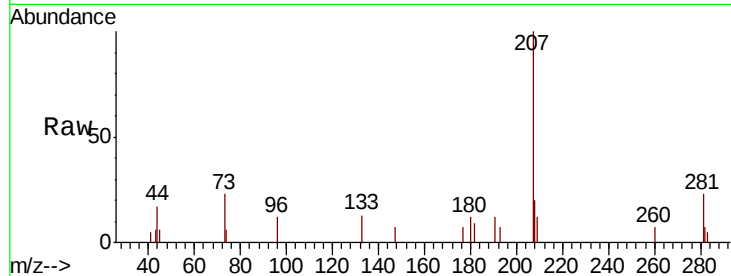
Tot Ion:180 Resp: 562

Ion Ratio Lower Upper

180 100

182 72.6 47.9 143.8

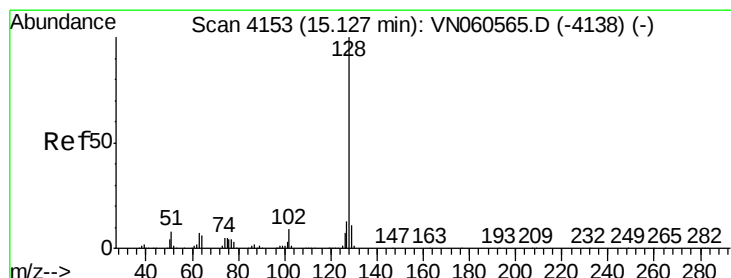
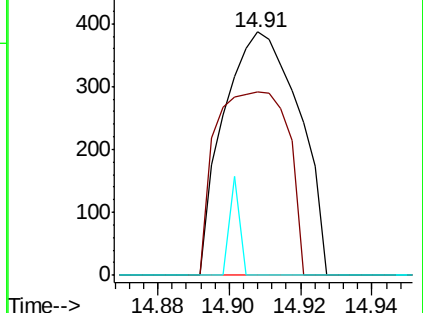
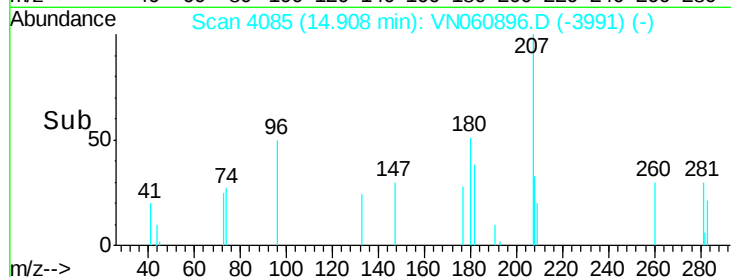
145 5.3 15.4 46.2#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 0.252 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060896.D

Acq: 8 Apr 2020 13:24

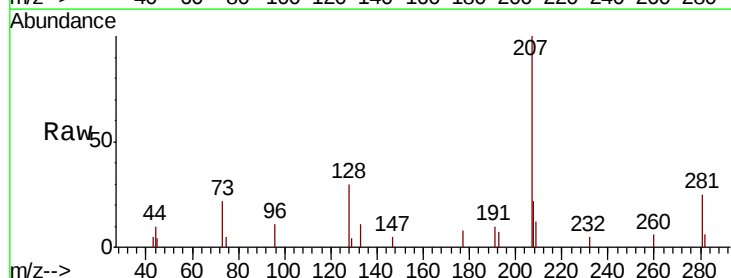
Tgt Ion:128 Resp: 1894

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 4.9 8.8 13.2#



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

