

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060630.D
 Acq On : 19 Mar 2020 12:44
 Operator : JC/MD
 Sample : PB127661ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 01:48:28 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	201422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335305	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	316740	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142068	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	130429	47.17	ug/l	0.00
Spiked Amount						
			Recovery	=	94.34%	
35) Dibromofluoromethane	7.57	113	99727	49.19	ug/l	0.00
Spiked Amount						
			Recovery	=	98.38%	
50) Toluene-d8	10.08	98	415920	50.22	ug/l	0.00
Spiked Amount						
			Recovery	=	100.44%	
62) 4-Bromofluorobenzene	12.40	95	155344	51.18	ug/l	0.00
Spiked Amount						
			Recovery	=	102.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5883	6.006	ug/l	100
18) Methyl Acetate	4.29	43	1761	0.639	ug/l #	54
20) Methylene Chloride	4.52	84	6947	2.883	ug/l	99
25) 2-Butanone	6.81	43	1552	0.979	ug/l #	50
29) Tetrahydrofuran	7.19	42	226	0.202	ug/l #	35
31) Cyclohexane	7.64	56	4344	0.975	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15771	4.857	ug/l #	50
37) Ethyl Acetate	6.81	43	1552	0.442	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19358	6.652	ug/l #	17
43) Isopropyl Acetate	8.14	43	65927	11.395	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1392	0.538	ug/l #	43
48) Methyl methacrylate	9.17	41	3250	1.262	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4735	1.438	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	27770	6.783	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4707	1.191	ug/l #	42
59) 2-Hexanone	10.75	43	67783	28.581	ug/l #	52
71) Bromoform	12.39	173	359	1.864	ug/l #	1
74) N-amyl acetate	12.02	43	3607	0.732	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	77933	25.422	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3297	0.364	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	77933	65.292	ug/l #	13

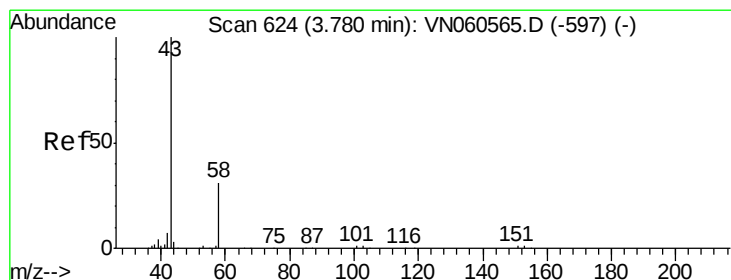
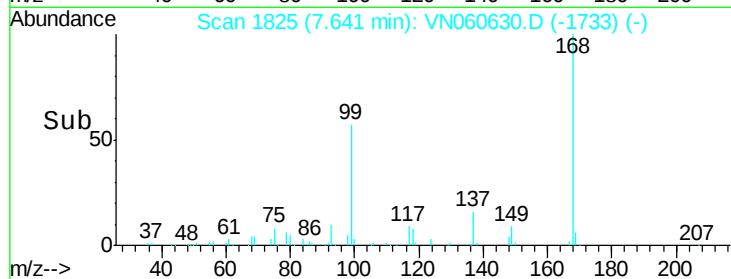
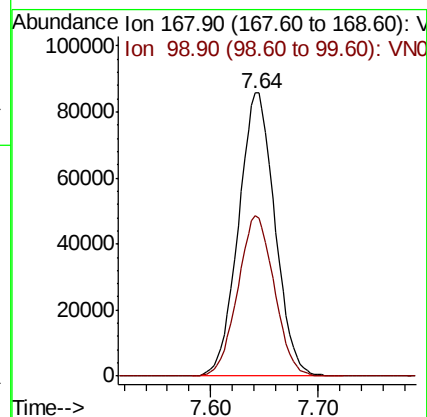
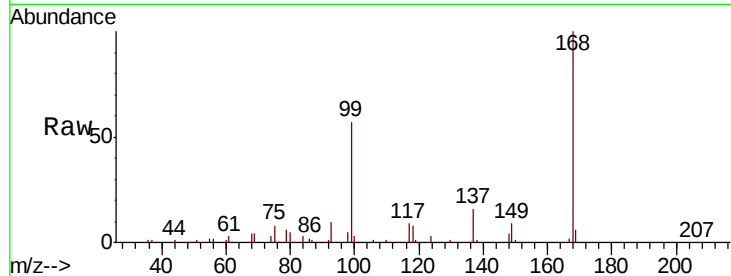
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

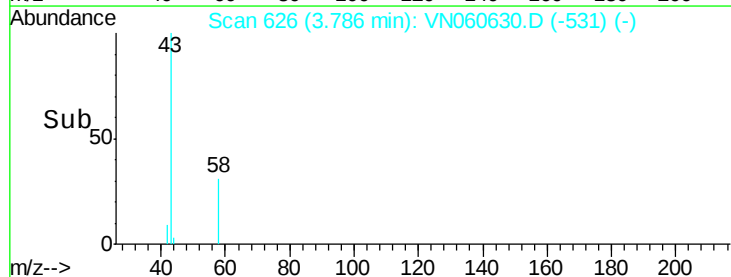
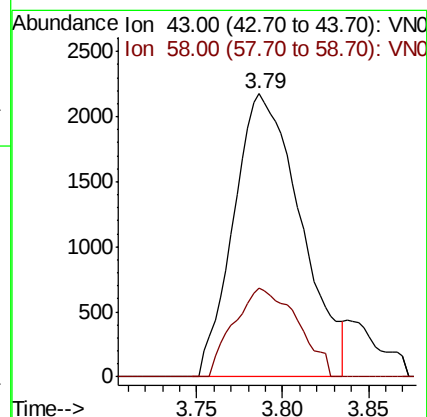
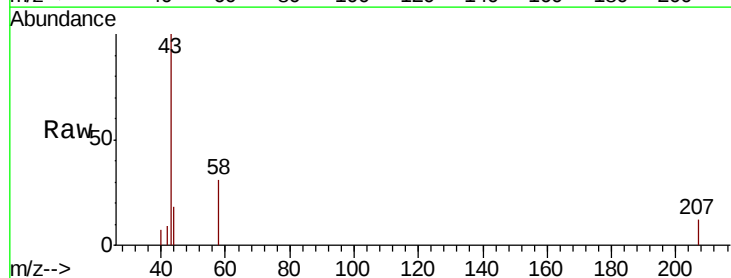
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 201422
Ion Ratio Lower Upper
168 100
99 56.7 44.0 66.0



#16
Acetone
Concen: 6.006 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion: 43 Resp: 5883
Ion Ratio Lower Upper
43 100
58 31.4 25.1 37.7

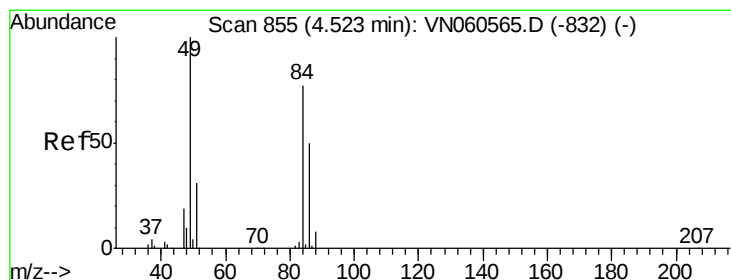
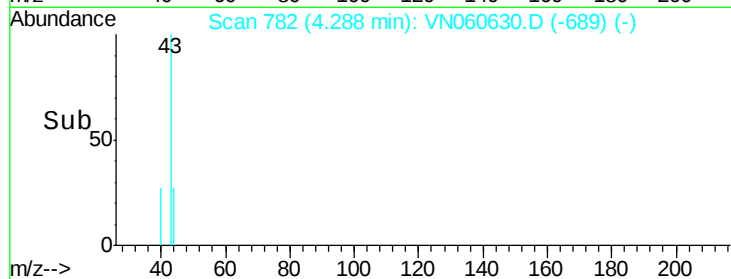
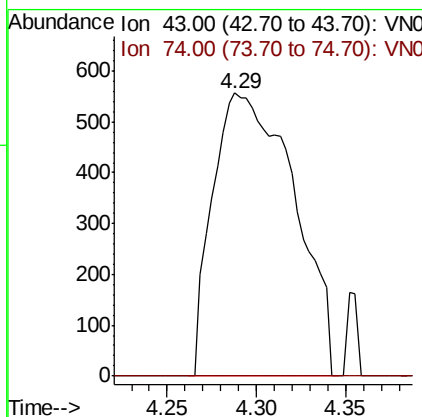
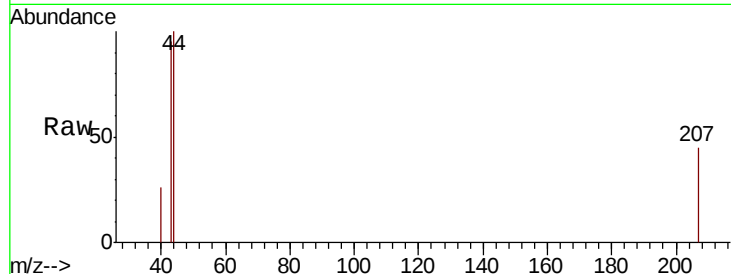




#18
Methyl Acetate
Concen: 0.639 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

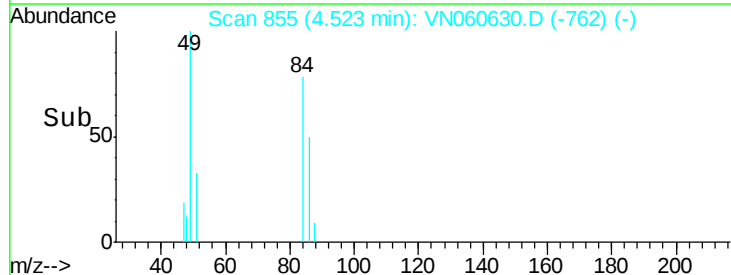
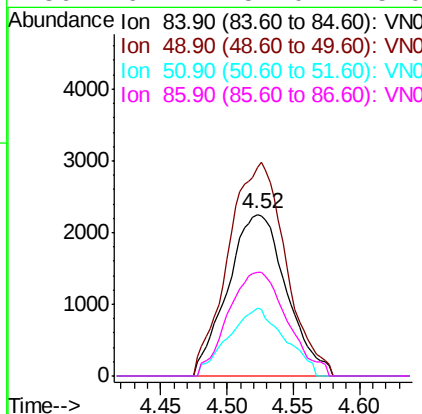
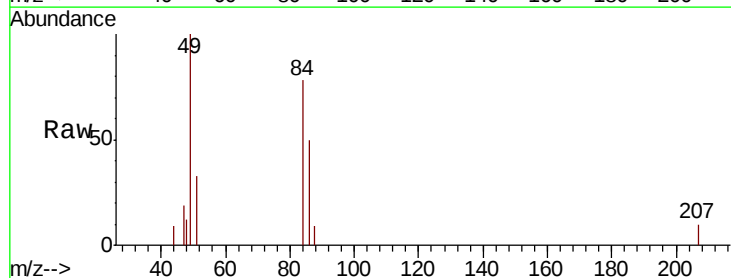
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1761
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.883 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion: 84 Resp: 6947
Ion Ratio Lower Upper
84 100
49 128.5 103.3 154.9
51 42.0 31.6 47.4
86 64.4 52.0 78.0





#25

2-Butanone

Concen: 0.979 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

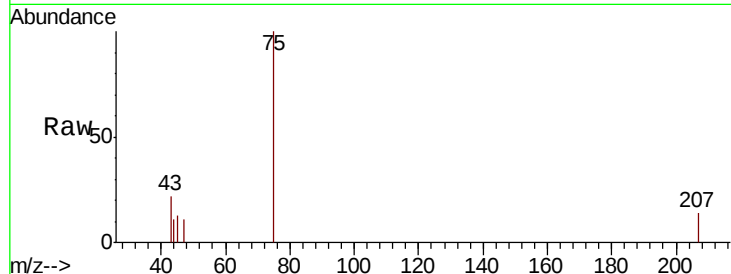
ClientSampleId :

Tot Ion: 43 Resp: 1552

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

6.81

400

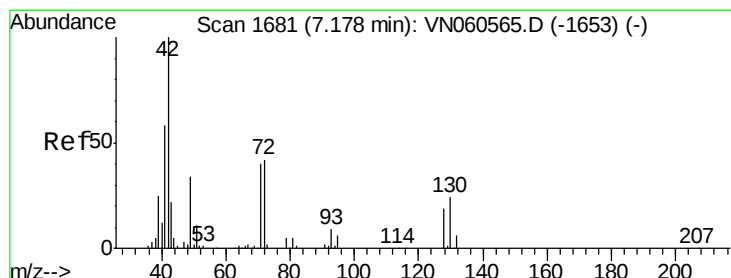
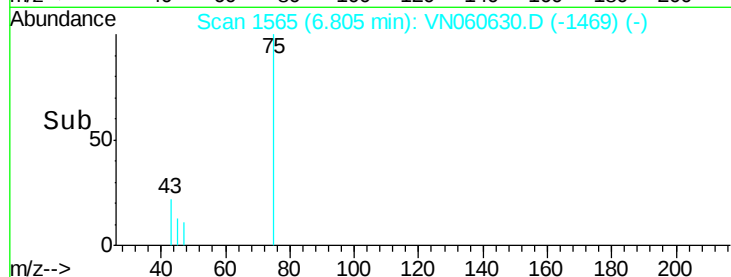
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

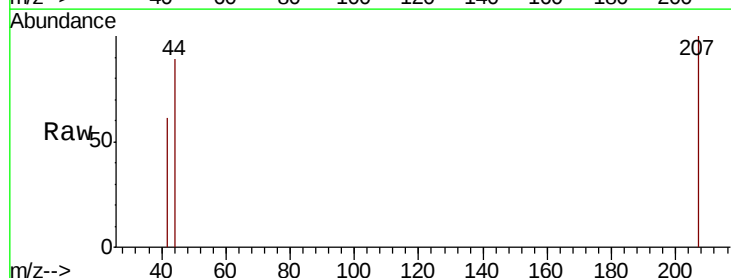
Tgt Ion: 42 Resp: 226

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

250

200

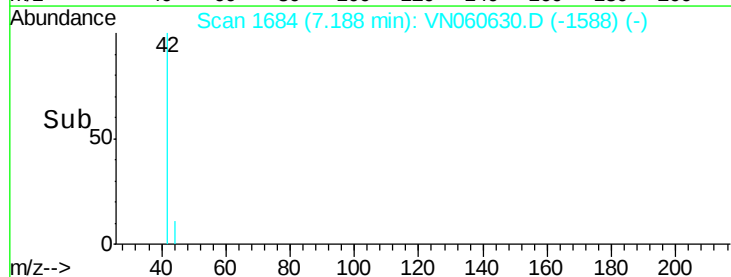
150

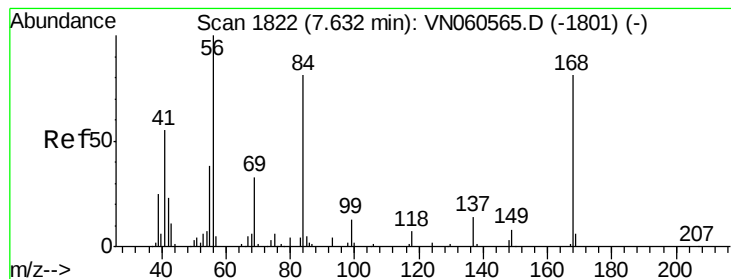
100

50

0

Time-->





#31

Cyclohexane

Concen: 0.975 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :
MSVOA_N
ClientSampled :

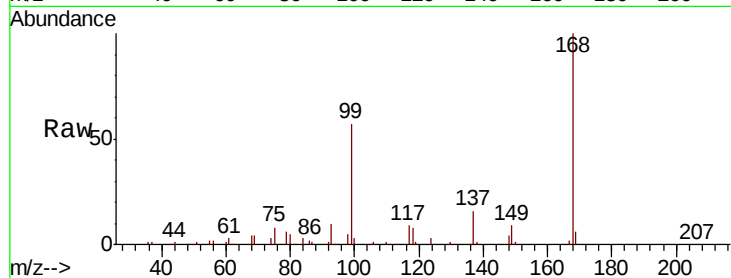
Tot Ion: 56 Resp: 4344

Ion Ratio Lower Upper

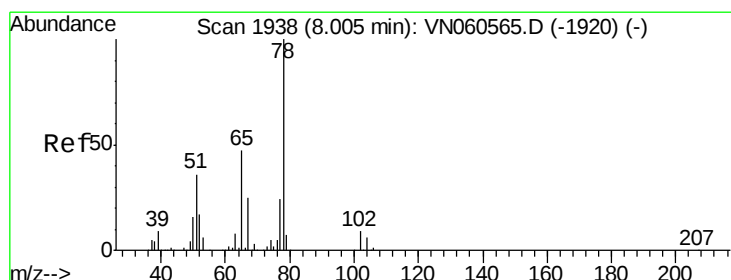
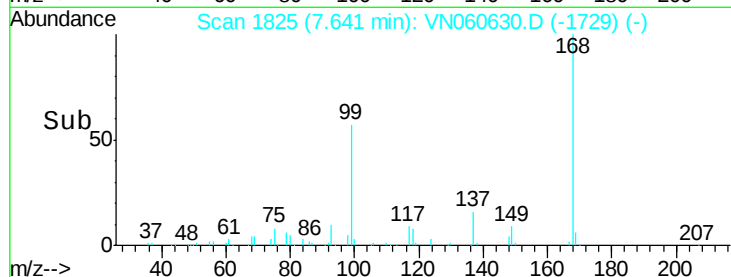
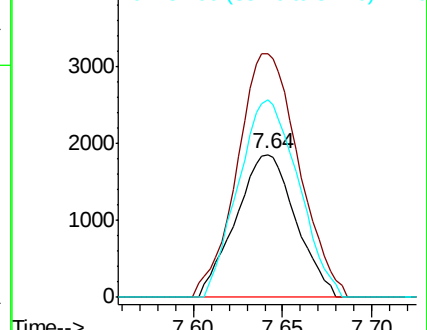
56 100

69 170.1 26.6 40.0#

84 138.3 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: 47.170 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060630.D

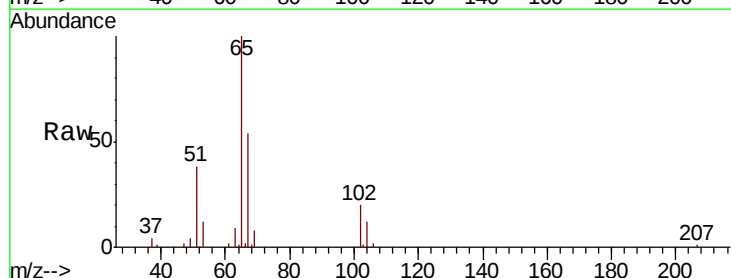
Acq: 19 Mar 2020 12:44

Tgt Ion: 65 Resp: 130429

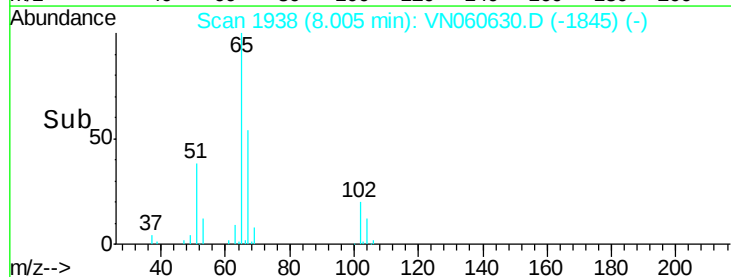
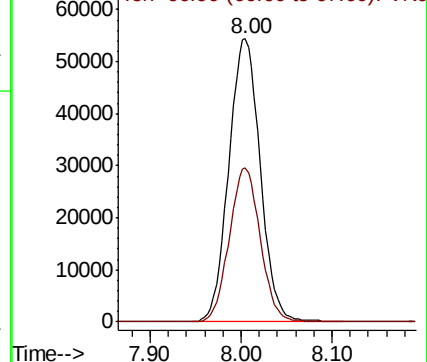
Ion Ratio Lower Upper

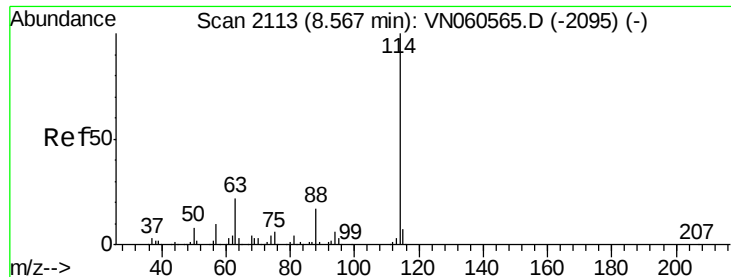
65 100

67 53.6 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: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

ClientSampleId :

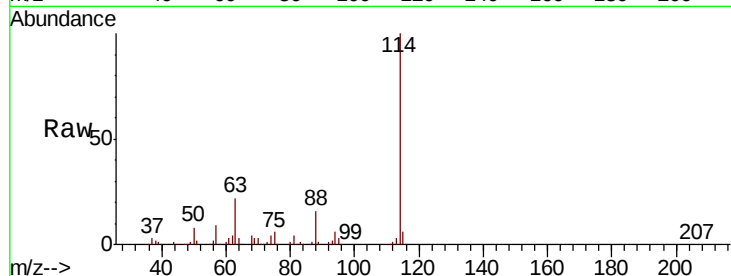
Tot Ion:114 Resp: 335305

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.8

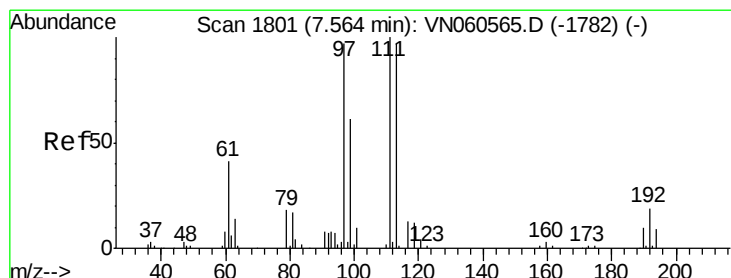
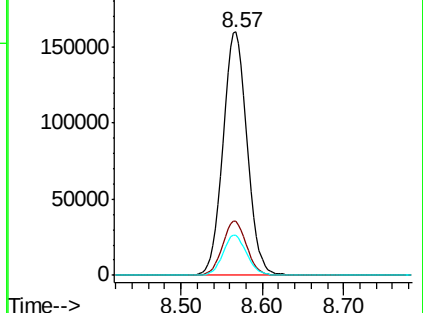
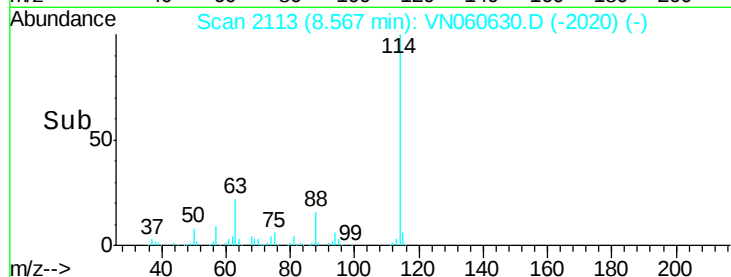
88 16.4 0.0 33.0



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: 49.188 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

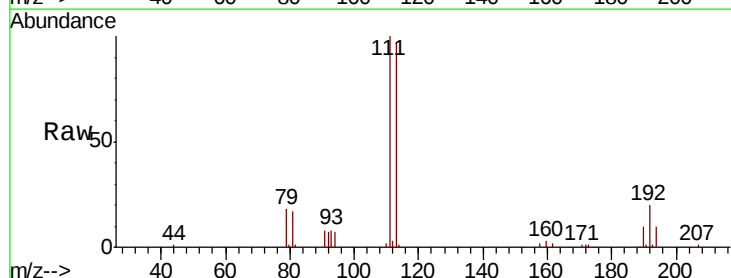
Tgt Ion:113 Resp: 99727

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

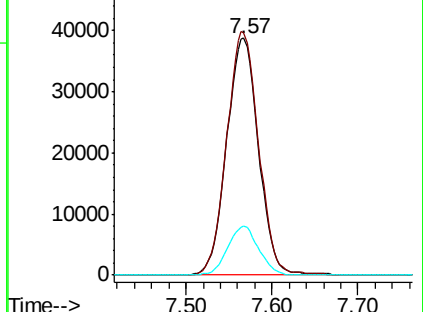
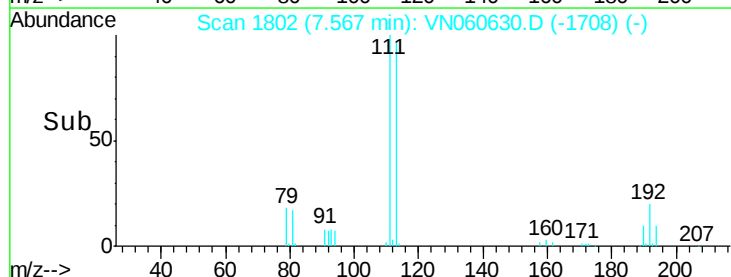
192 20.1 15.8 23.8

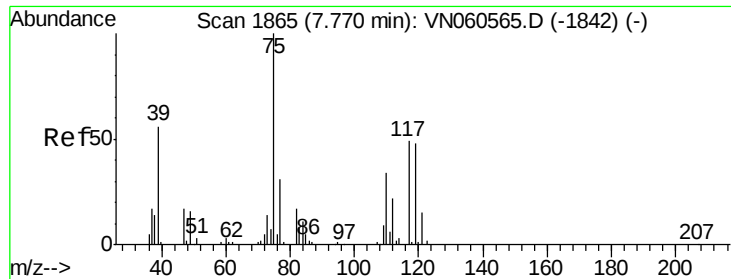


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

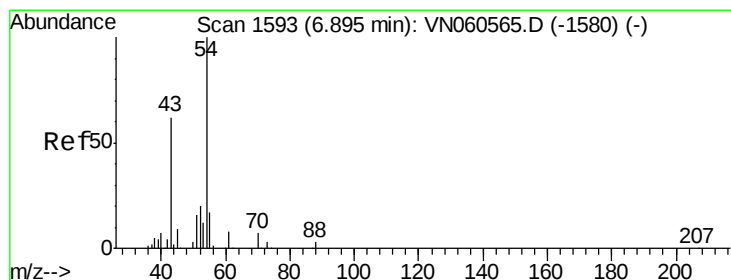
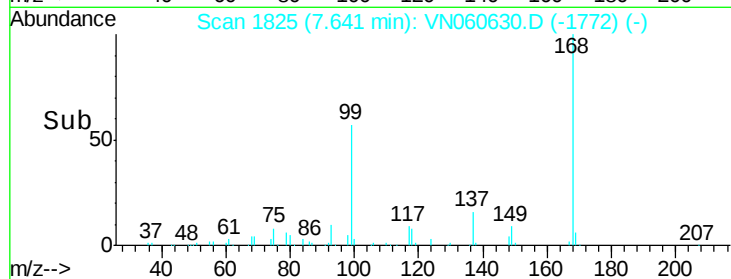
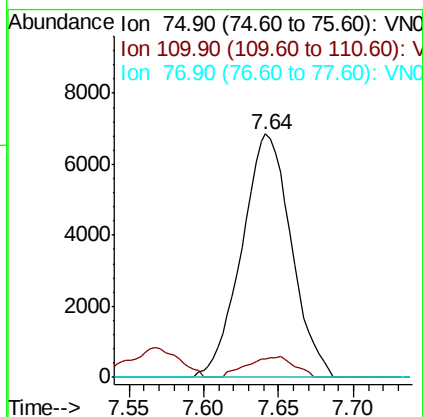
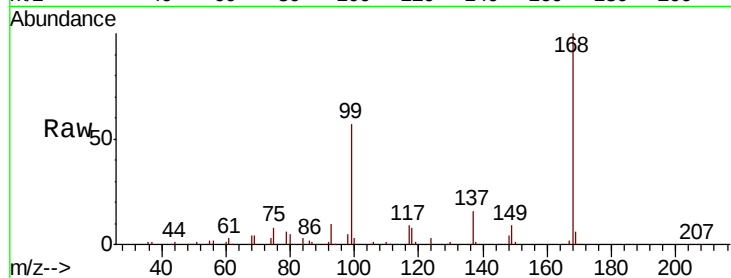




#36
 1,1-Dichloropropene
 Concen: 4.857 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060630.D
 Acq: 19 Mar 2020 12:44

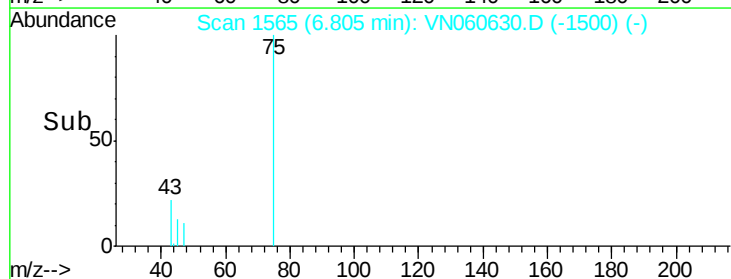
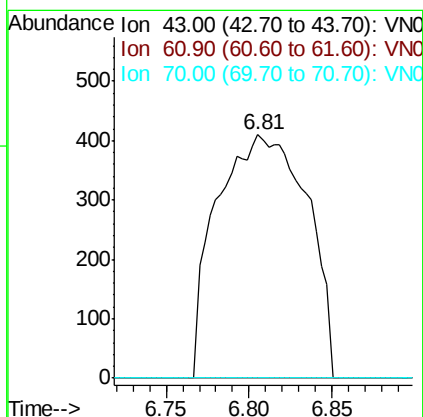
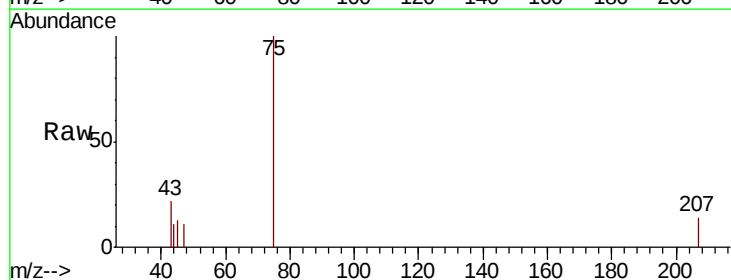
Instrument :
 MSVOA_N
 ClientSampled :

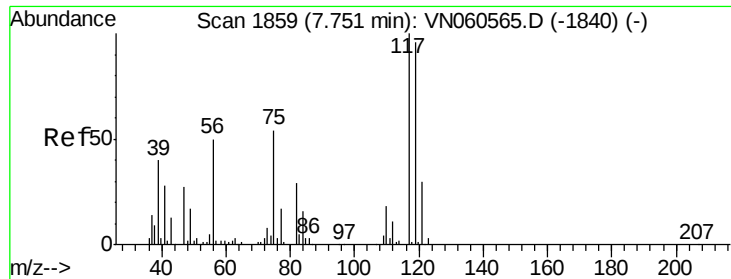
Tot Ion	75	Resp	15771
Ion Ratio	Lower	Upper	
75	100		
110	8.1	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.442 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.09 min
 Lab File: VN060630.D
 Acq: 19 Mar 2020 12:44

Tgt Ion	43	Resp	1552
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#

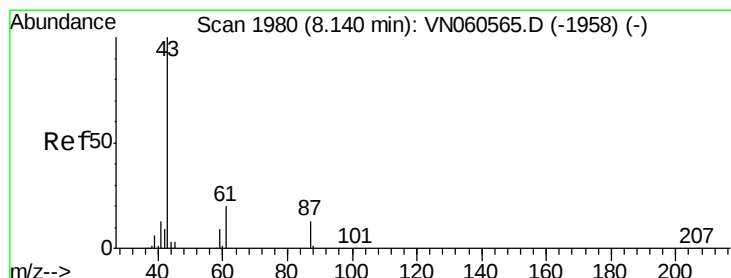
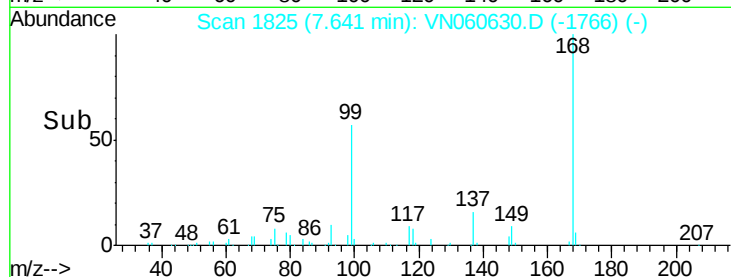
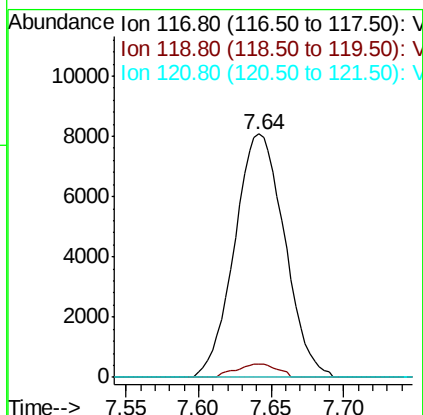
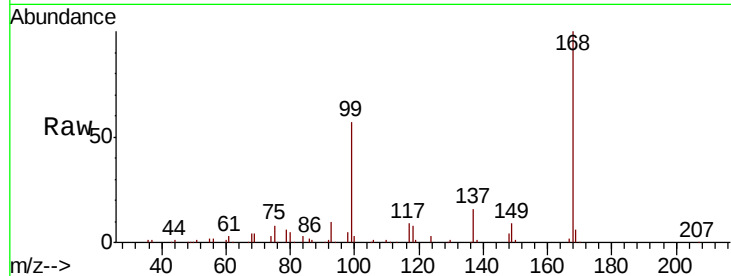




#38
Carbon Tetrachloride
Concen: 6.652 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

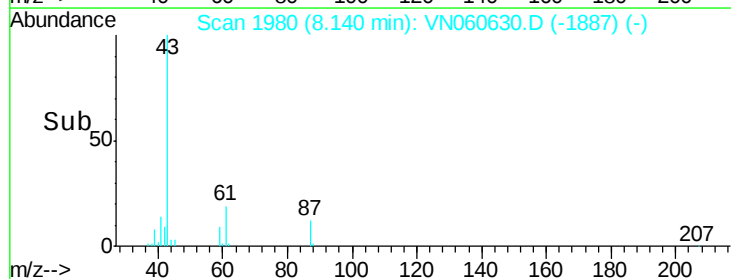
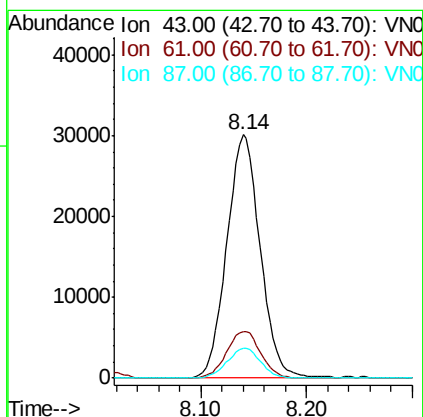
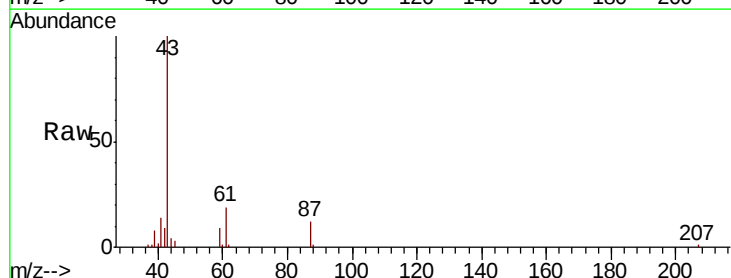
Instrument :
MSVOA_N
ClientSampleId :

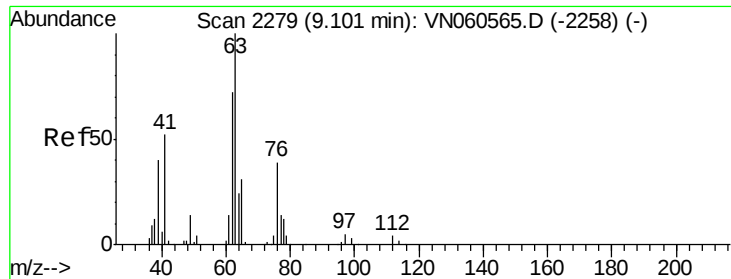
Tot Ion:117 Resp: 19358
Ion Ratio Lower Upper
117 100
119 5.7 76.2 114.2#
121 0.0 23.7 35.5#



#43
Isopropyl Acetate
Concen: 11.395 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion: 43 Resp: 65927
Ion Ratio Lower Upper
43 100
61 19.5 20.7 31.1#
87 12.1 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.538 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

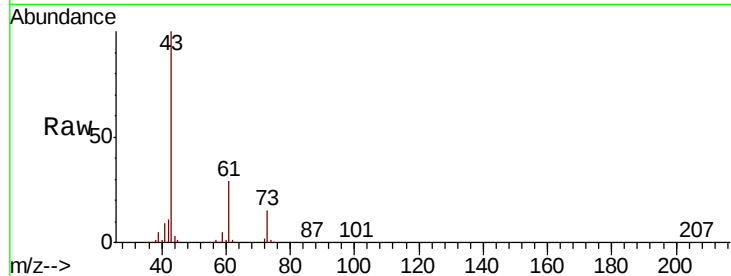
ClientSampled :

Tot Ion: 63 Resp: 1392

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

9.25

800

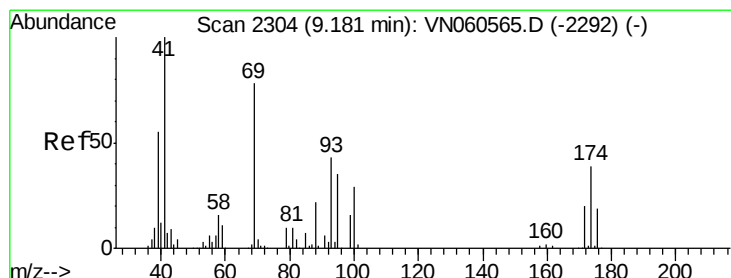
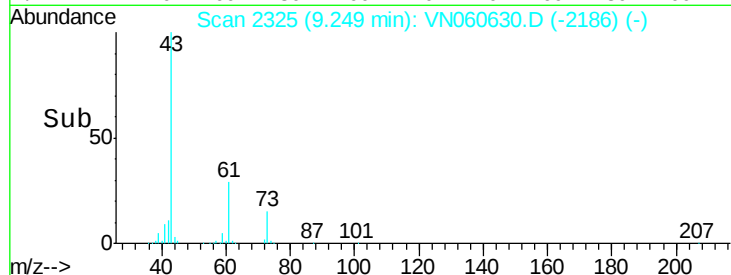
600

400

200

0

Time--> 9.20 9.25



#48

Methyl methacrylate

Concen: 1.262 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

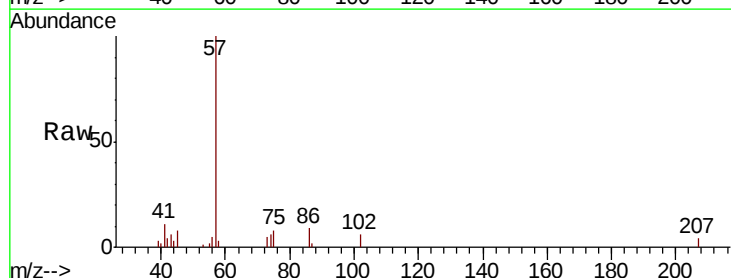
Tgt Ion: 41 Resp: 3250

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 0.0 44.0 66.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

25000

20000

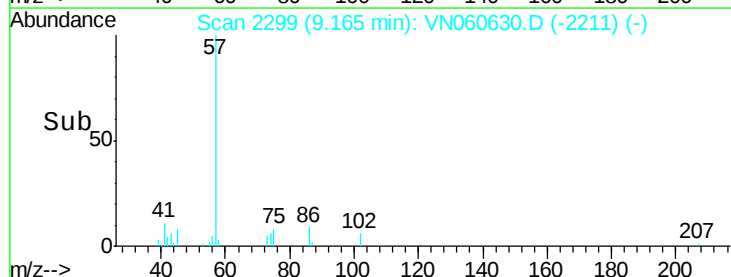
15000

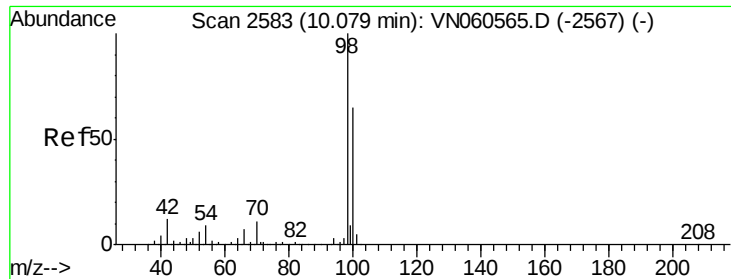
10000

5000

0

Time--> 9.10 9.15 9.20

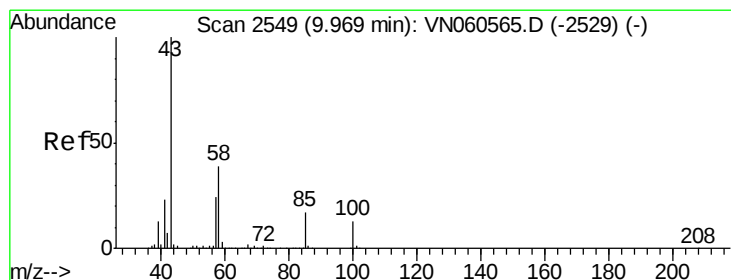
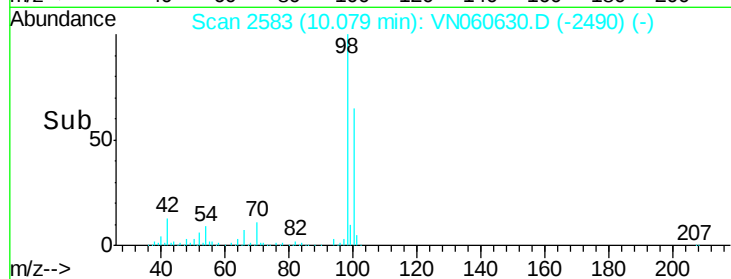
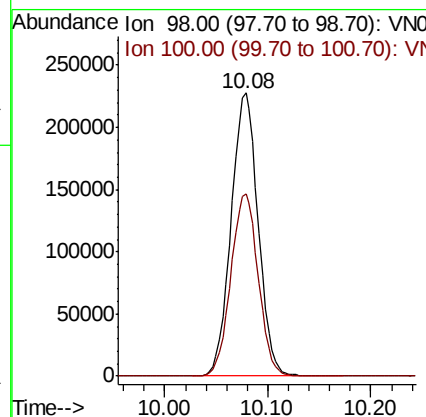
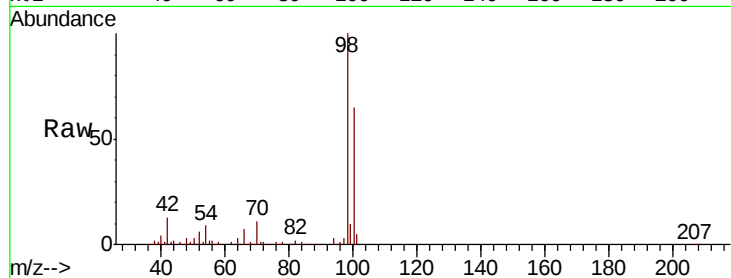




#50
Toluene-d8
Concen: 50.223 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

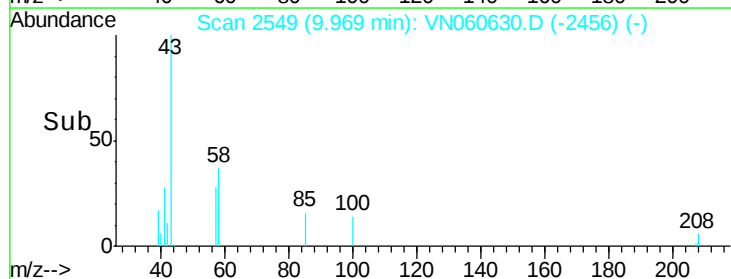
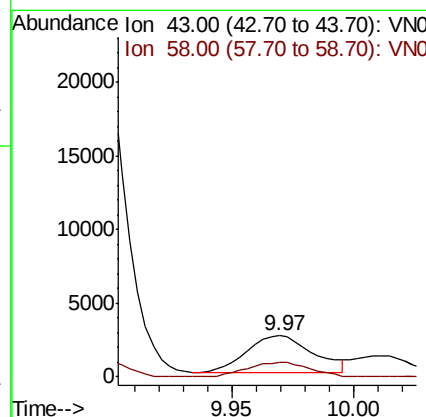
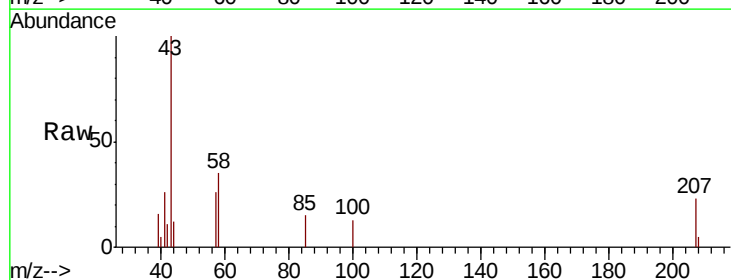
Instrument :
MSVOA_N
ClientSampled :

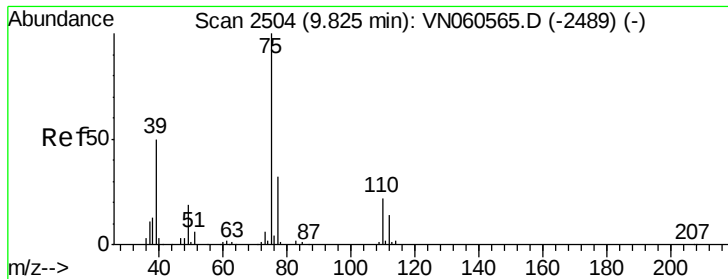
Tot Ion: 98 Resp: 415920
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.438 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion: 43 Resp: 4735
Ion Ratio Lower Upper
43 100
58 37.0 30.8 46.2



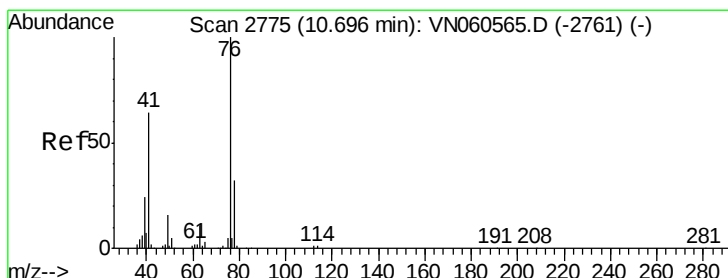
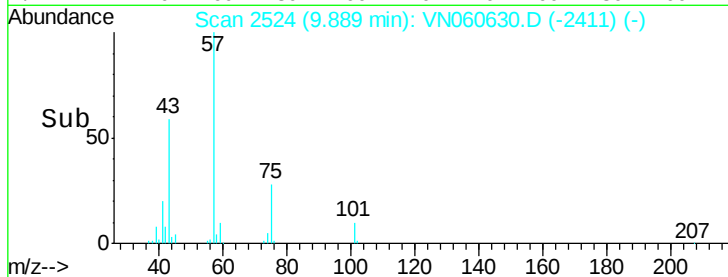
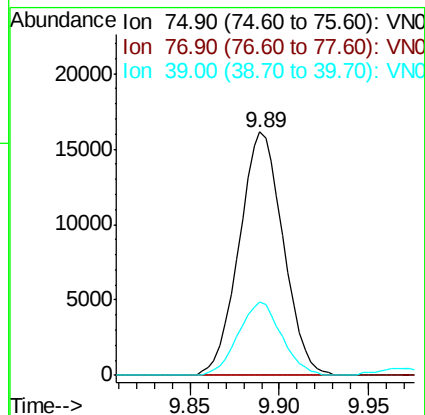
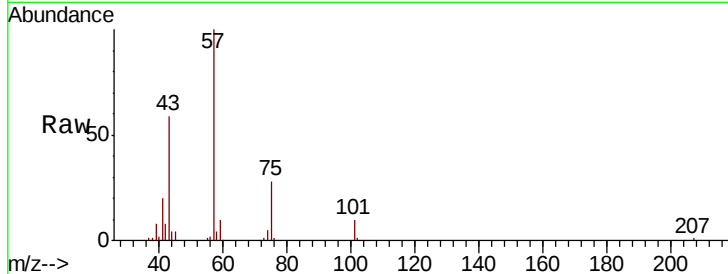


#54

cis-1,3-Dichloropropene
 Concen: 6.783 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060630.D
 Acq: 19 Mar 2020 12:44

Instrument :
 MSVOA_N
 ClientSampleId :

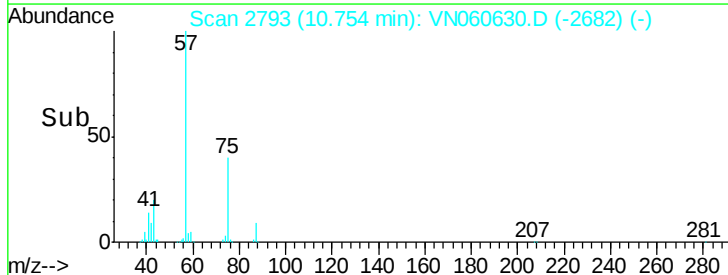
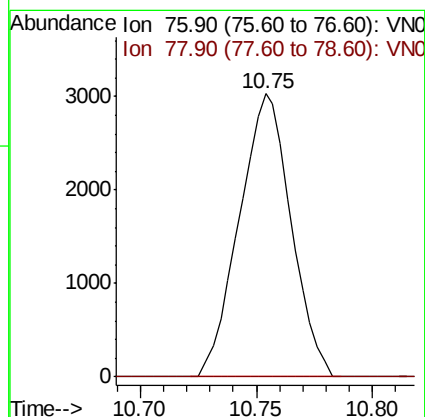
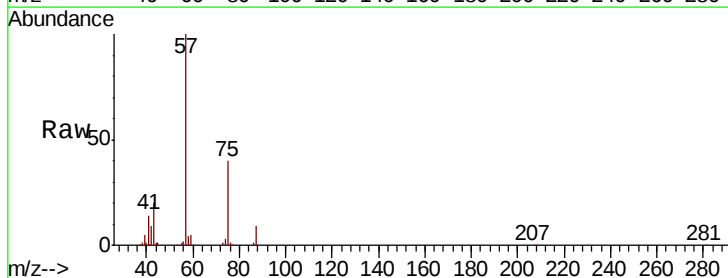
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.4	38.0#
39	30.0	40.2	60.4#

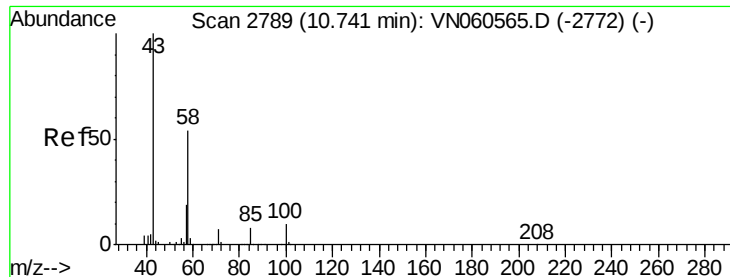


#57

1,3-Dichloropropane
 Concen: 1.191 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060630.D
 Acq: 19 Mar 2020 12:44

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.6#

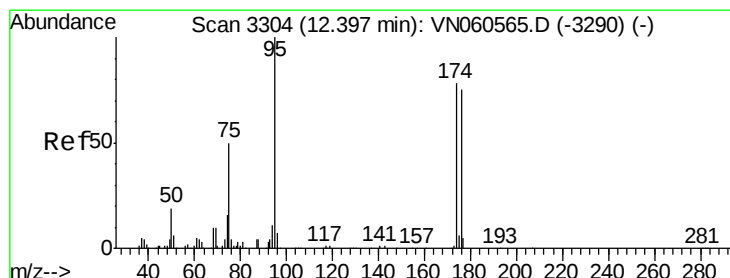
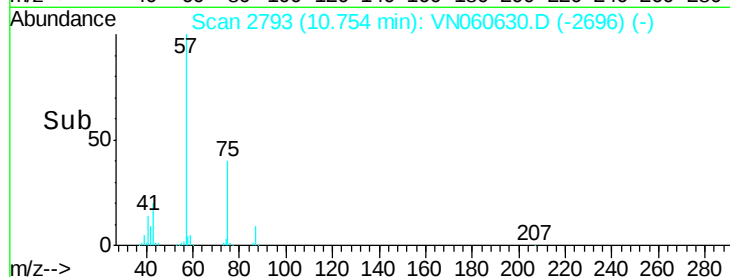
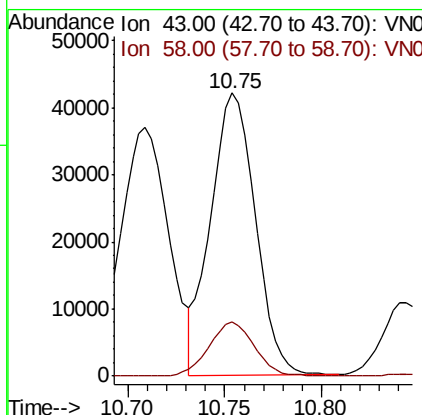
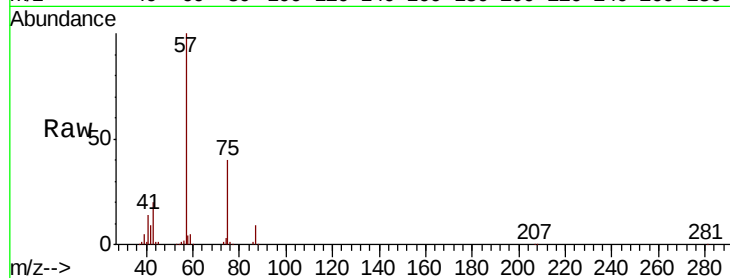




#59
2-Hexanone
Concen: 28.581 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

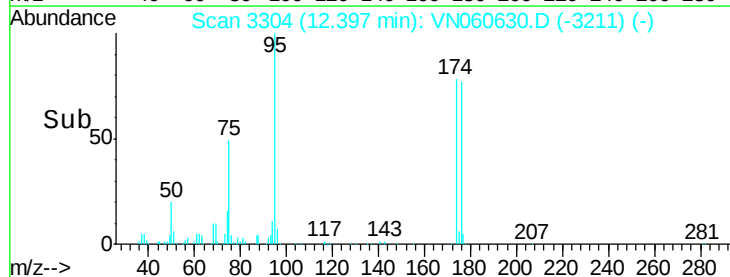
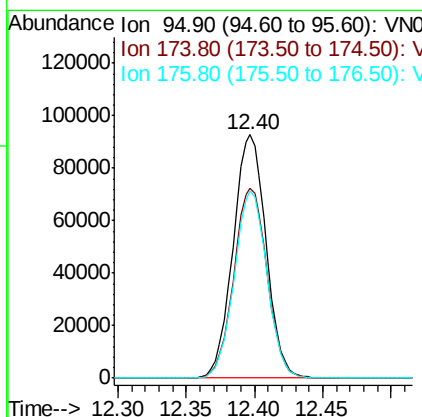
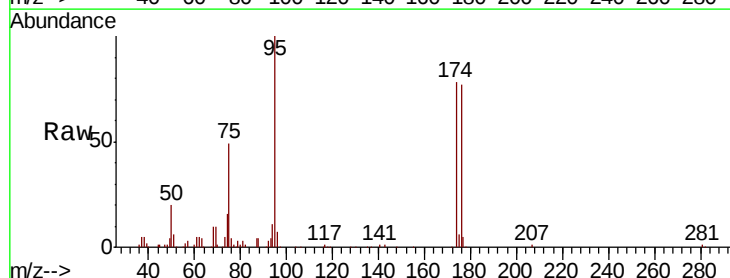
Instrument :
MSVOA_N
ClientSampleId :

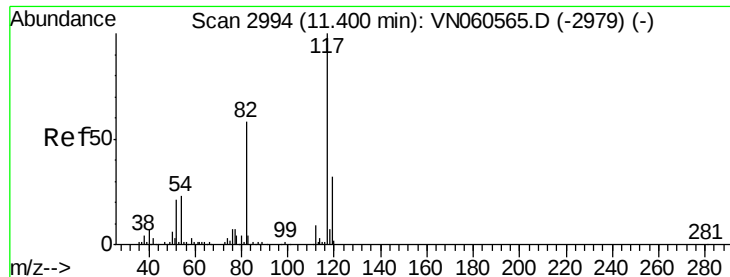
Tot Ion: 43 Resp: 67783
Ion Ratio Lower Upper
43 100
58 19.4 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.183 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion: 95 Resp: 155344
Ion Ratio Lower Upper
95 100
174 78.9 0.0 157.6
176 76.4 0.0 150.6

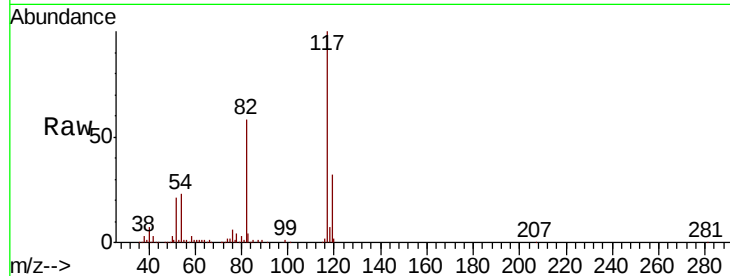




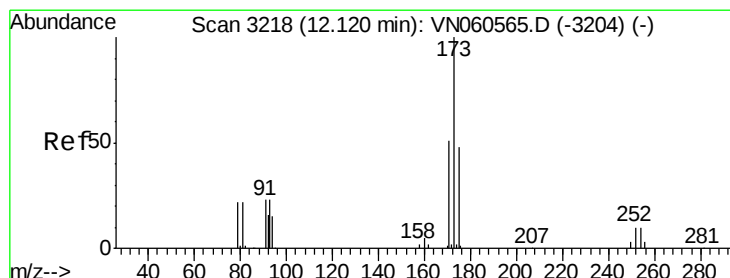
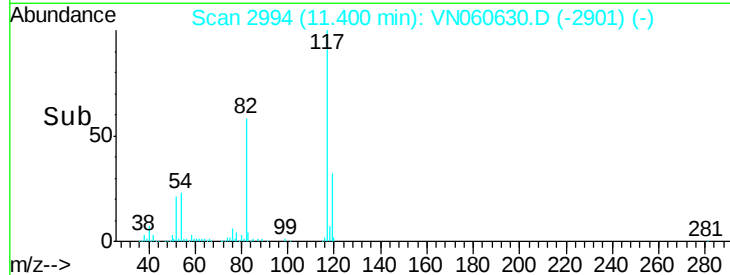
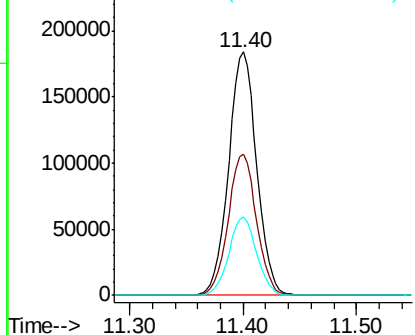
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 316740
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 32.2 25.5 38.3

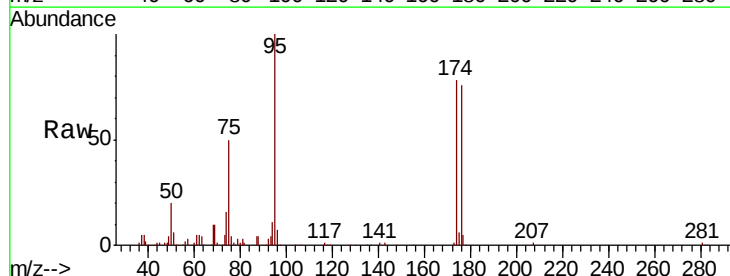


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

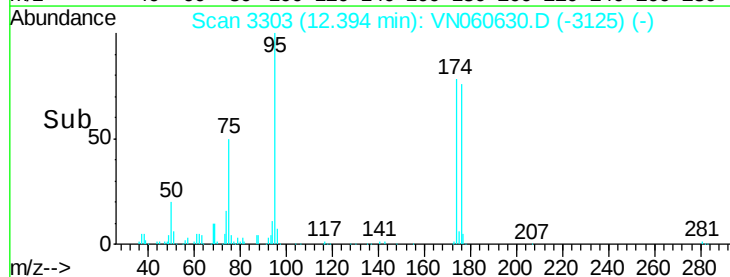
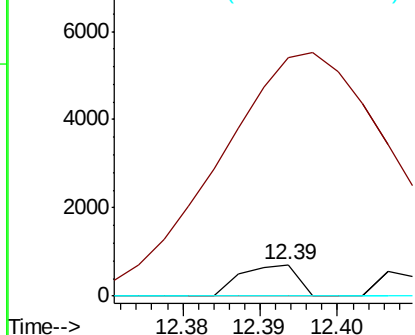


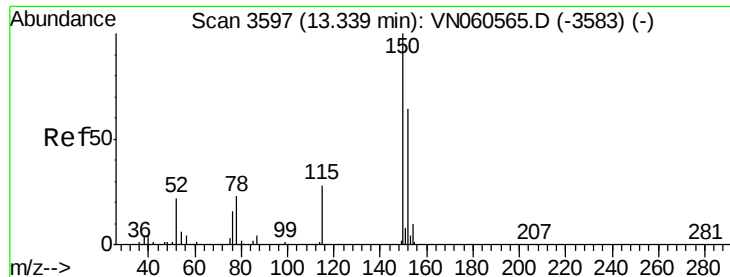
#71
Bromoform
Concen: 1.864 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060630.D
Acq: 19 Mar 2020 12:44

Tgt Ion:173 Resp: 359
Ion Ratio Lower Upper
173 100
175 2138.4 24.1 72.4#
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: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

ClientSampleId :

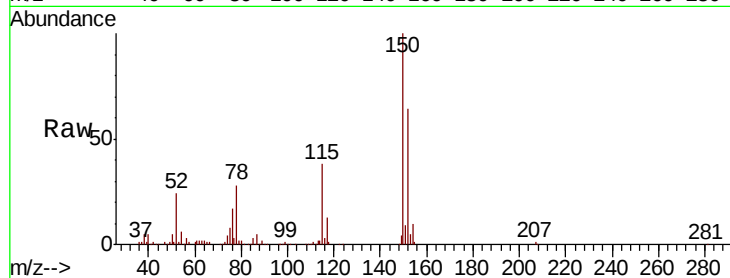
Tot Ion:152 Resp: 142068

Ion Ratio Lower Upper

152 100

115 59.8 30.2 90.6

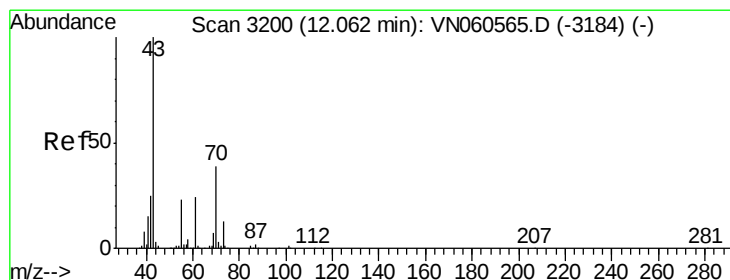
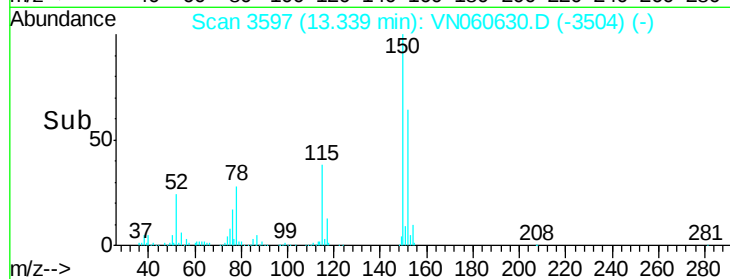
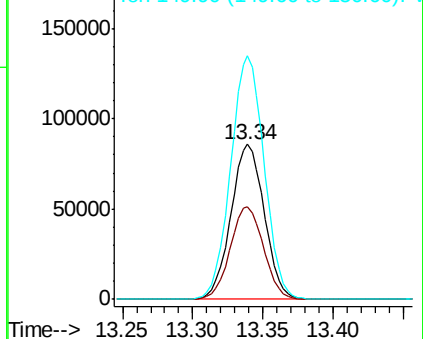
150 157.5 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.732 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Tgt Ion: 43 Resp: 3607

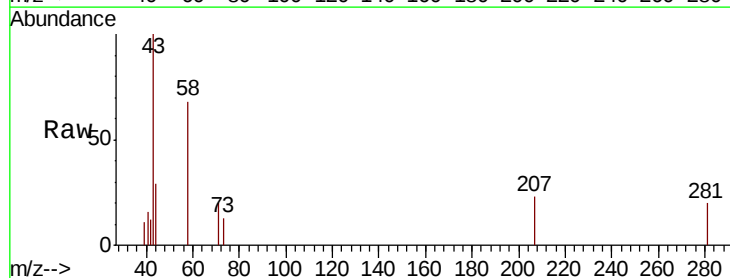
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

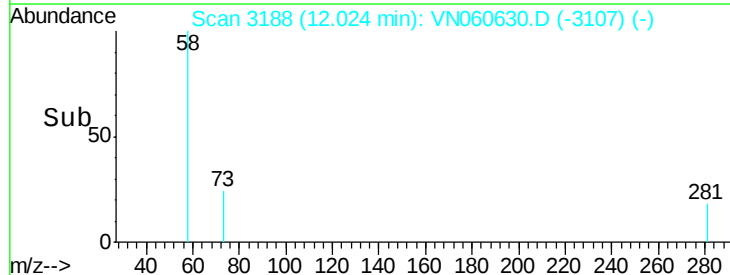
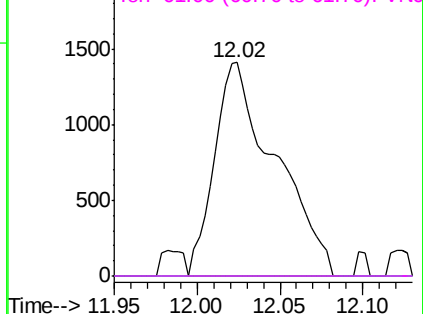


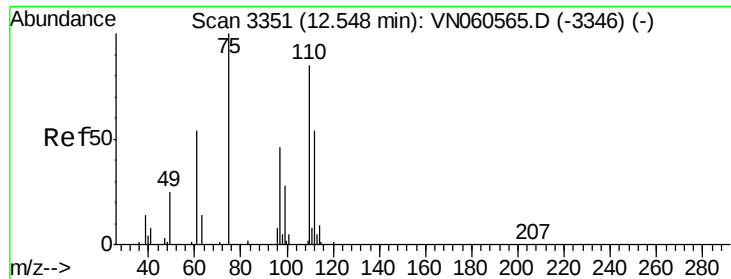
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 25.422 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

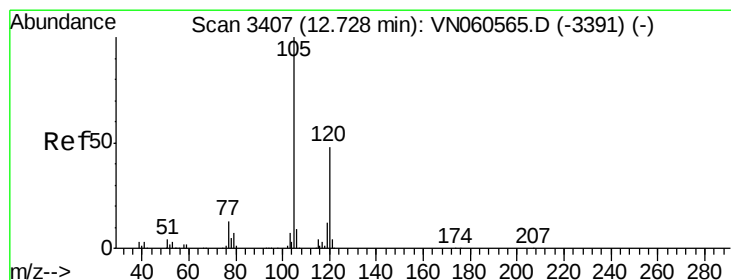
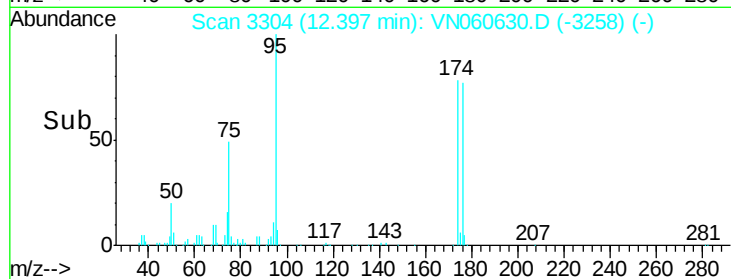
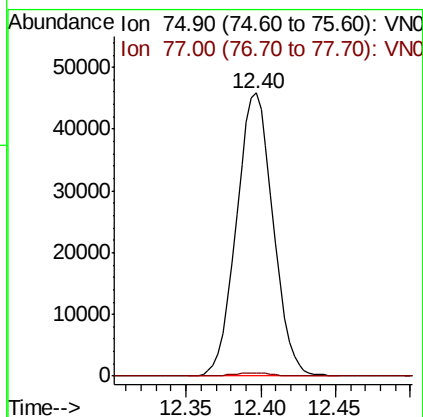
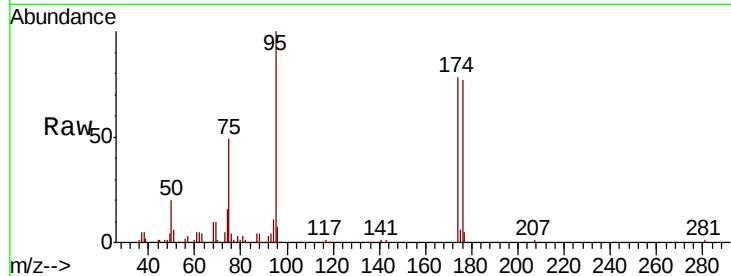
ClientSampled :

Tot Ion: 75 Resp: 77933

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.364 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060630.D

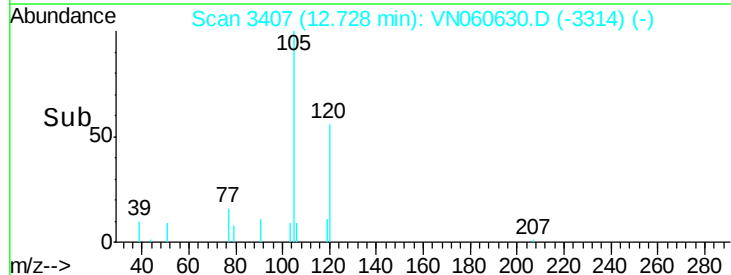
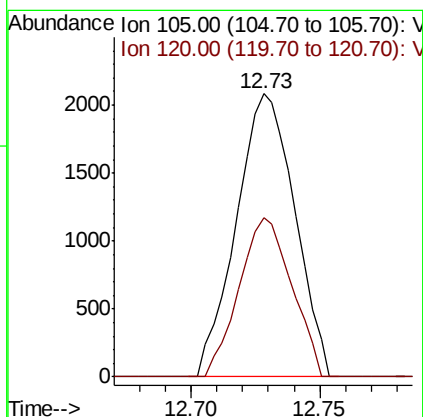
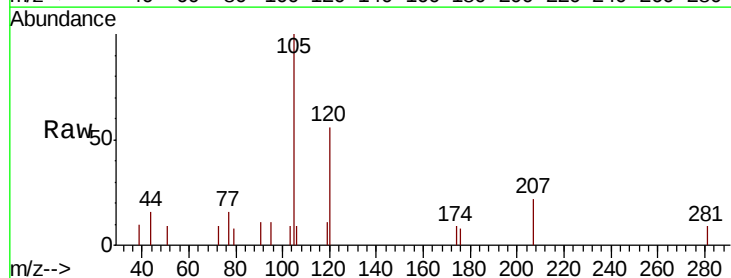
Acq: 19 Mar 2020 12:44

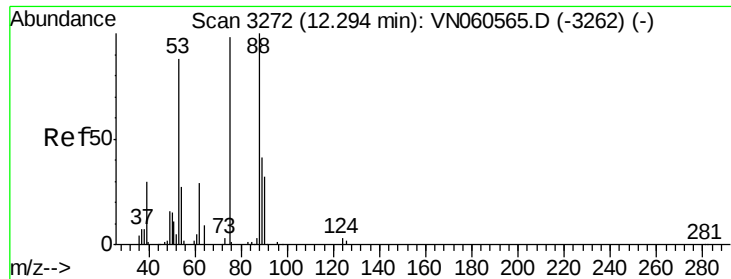
Tgt Ion: 105 Resp: 3297

Ion Ratio Lower Upper

105 100

120 50.7 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 65.292 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060630.D

Acq: 19 Mar 2020 12:44

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 77933

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

