

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055061.D
 Acq On : 15 Apr 2019 23:32
 Operator : JC/SP
 Sample : K2390-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 200050

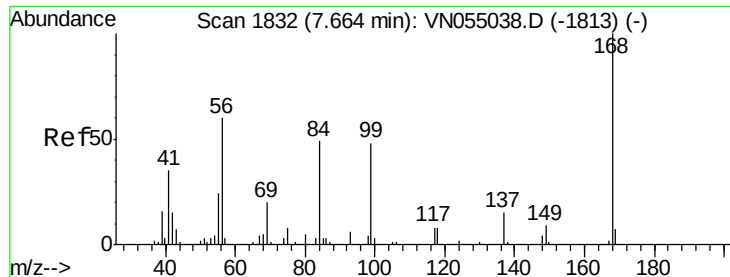
Quant Time: Apr 16 05:55:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	532954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	850598	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	711603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	223599	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	332413	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
35) Dibromofluoromethane	7.59	113	270854	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.09	98	1019711	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.40	95	296261	44.79	ug/l	0.00
Spiked Amount			Recovery	=	89.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	321	0.669	ug/l #	60
16) Acetone	3.81	43	12337	6.416	ug/l	92
18) Methyl Acetate	4.34	43	2368	Below Cal	#	76
20) Methylene Chloride	4.55	84	163804	24.234	ug/l	97
25) 2-Butanone	6.86	43	1964	0.684	ug/l #	86
29) Tetrahydrofuran	7.22	42	686	0.365	ug/l #	51
30) Chloroform	7.37	83	5587	0.507	ug/l #	83
31) Cyclohexane	7.66	56	11087	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	39780	4.961	ug/l #	50
38) Carbon Tetrachloride	7.66	117	49829	6.532	ug/l #	18
43) Isopropyl Acetate	8.17	43	12476	1.240	ug/l	99
47) Bromodichloromethane	9.40	83	1706	0.216	ug/l #	90
48) Methyl methacrylate	9.18	41	7068	1.418	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	3981	0.685	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	40516	4.723	ug/l #	67
57) 1,3-Dichloropropane	10.77	76	7847	0.864	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.91	63	98	10.771	ug/l #	50
59) 2-Hexanone	10.76	43	127675	34.980	ug/l #	54
71) Bromoform	12.40	173	3316	1.098	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	150138	37.340	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4014	0.251	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	150138	149.317	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	31	2.686	ug/l #	1
95) Naphthalene	15.13	128	4023	3.550	ug/l #	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055061.D

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Instrument :

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ClientSampleId :

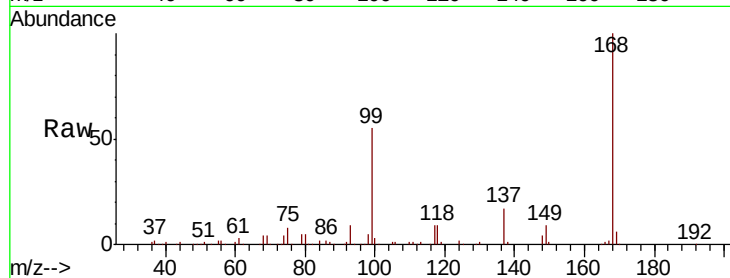
200050

Tot Ion:168 Resp: 532954

Ion Ratio Lower Upper

168 100

99 55.2 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.66

250000

200000

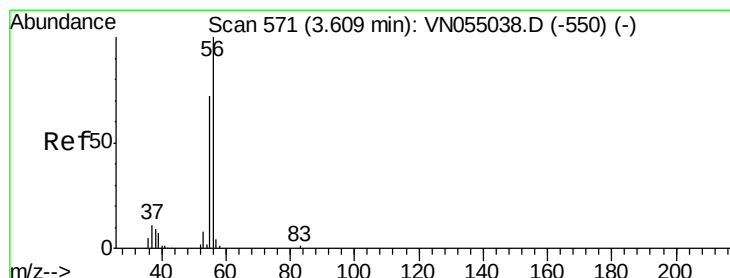
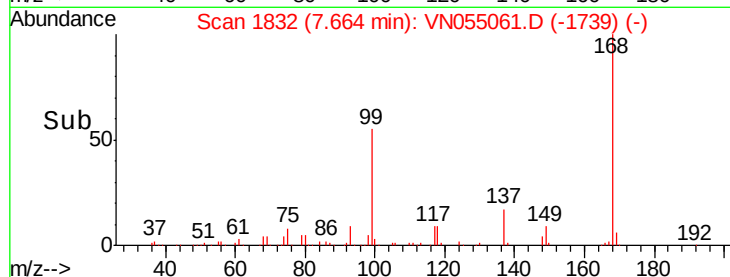
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.669 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN055061.D

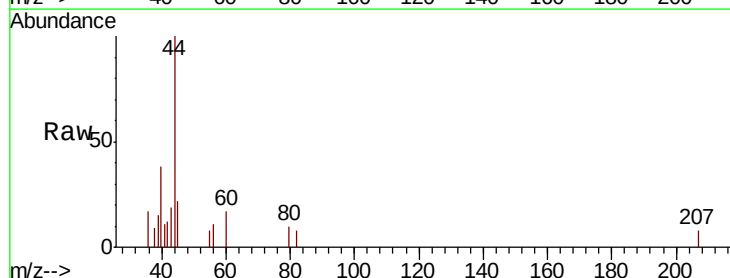
Acq: 15 Apr 2019 23:32

Tgt Ion: 56 Resp: 321

Ion Ratio Lower Upper

56 100

55 40.8 59.5 89.3#



Abundance Ion 56.00 (55.70 to 56.70): VN055038.D (-550) (-)

Ion 55.00 (54.70 to 55.70): VN055038.D (-550) (-)

3.60

250

200

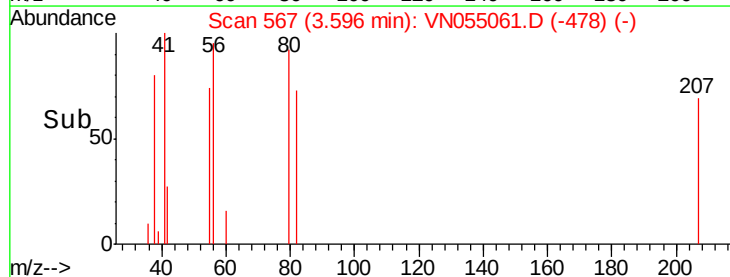
150

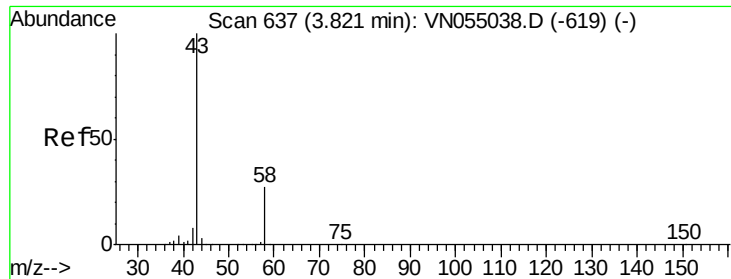
100

50

0

Time-->





#16

Acetone

Concen: 6.416 ug/l

RT: 3.81 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampled :

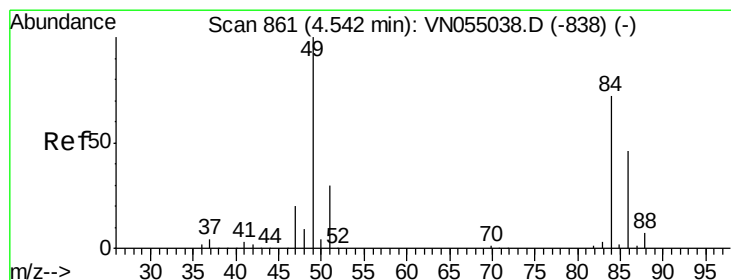
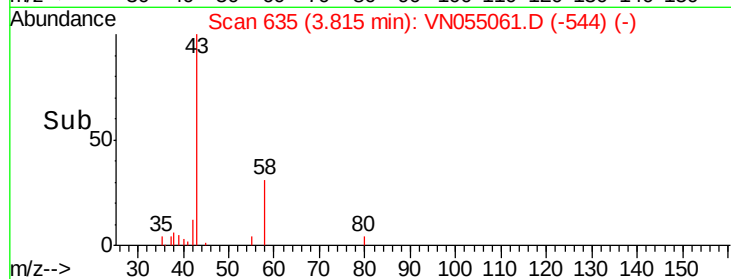
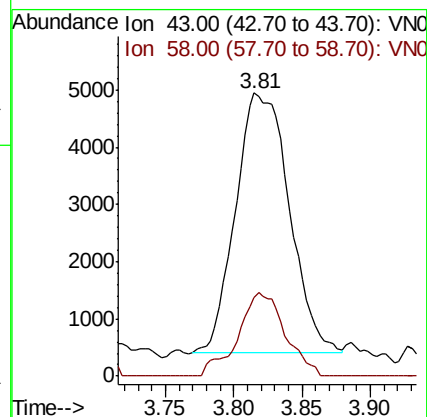
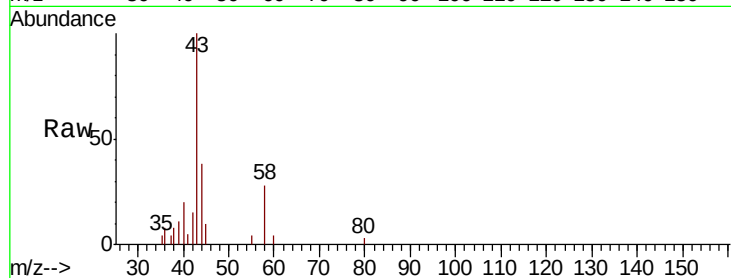
200050

Tot Ion: 43 Resp: 12337

Ion Ratio Lower Upper

43 100

58 30.3 20.9 31.3



#20

Methylene Chloride

Concen: 24.234 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.01 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Tgt Ion: 84 Resp: 163804

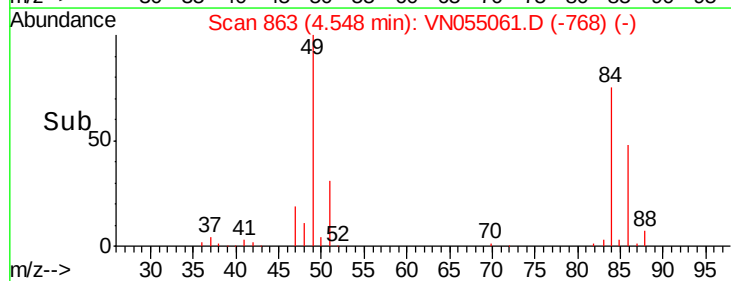
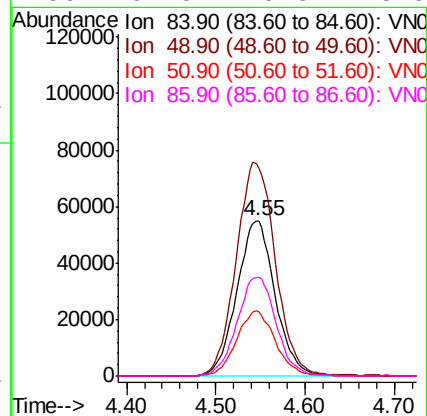
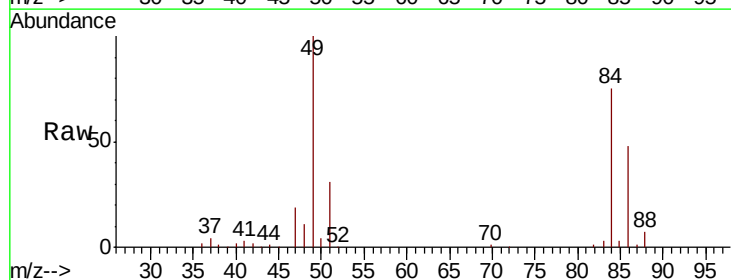
Ion Ratio Lower Upper

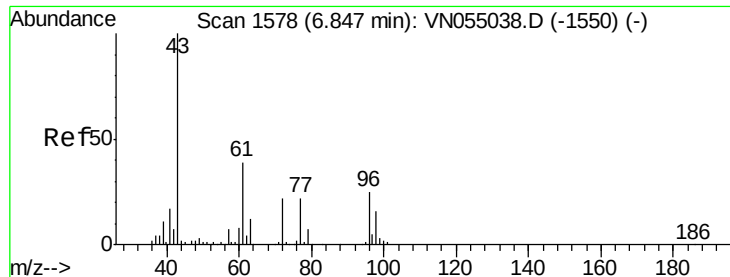
84 100

49 133.8 109.4 164.2

51 41.6 32.2 48.4

86 64.0 49.3 73.9

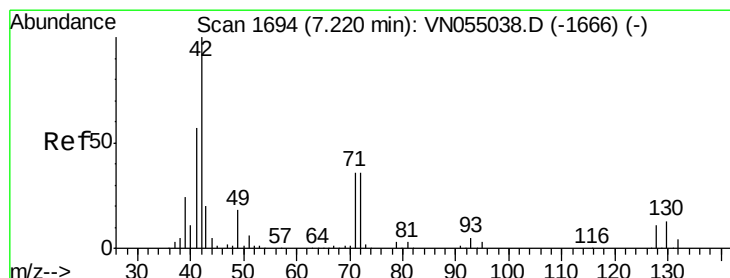
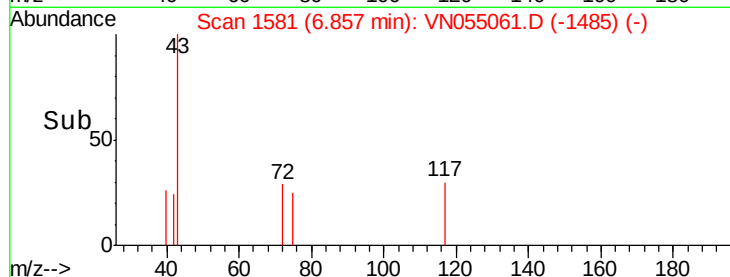
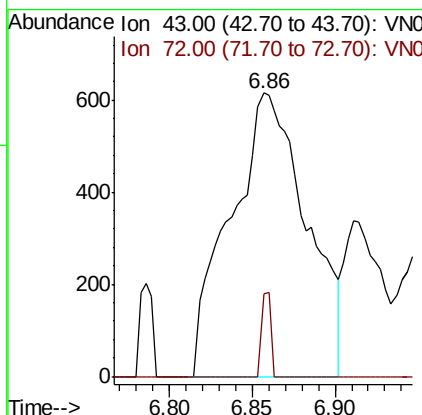
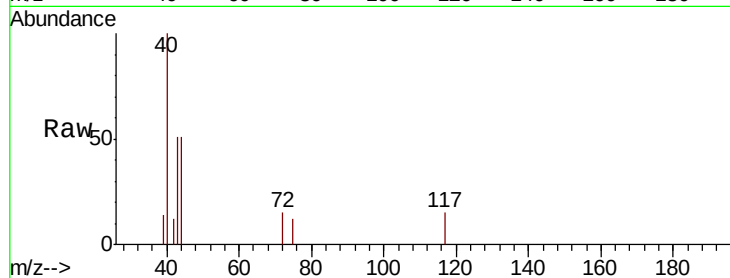




#25
 2-Butanone
 Concen: 0.684 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

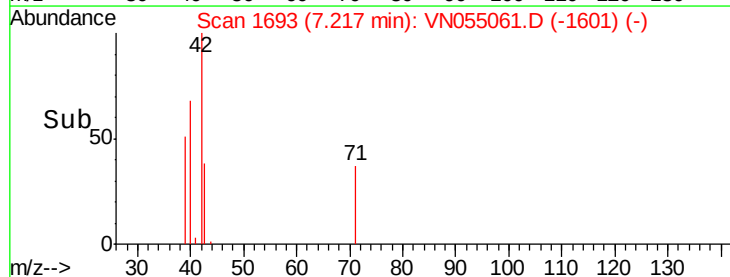
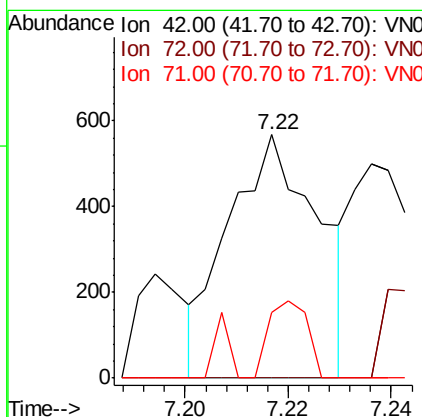
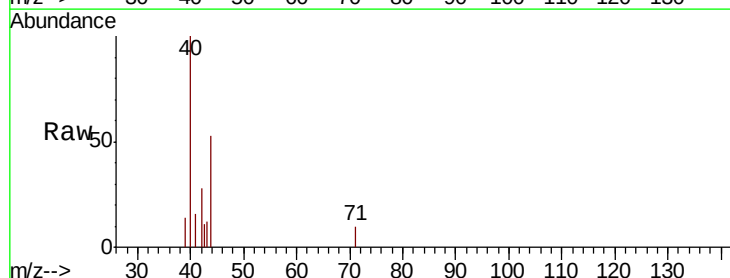
Instrument :
 MSVOA_N
 ClientSampled :
 200050

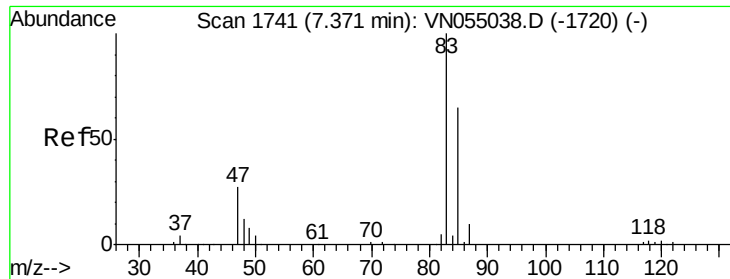
Tot Ion: 43 Resp: 1964
 Ion Ratio Lower Upper
 43 100
 72 29.3 18.1 27.1#



#29
 Tetrahydrofuran
 Concen: 0.365 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. -0.00 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Tgt Ion: 42 Resp: 686
 Ion Ratio Lower Upper
 42 100
 72 0.0 29.4 44.0#
 71 13.7 27.8 41.6#

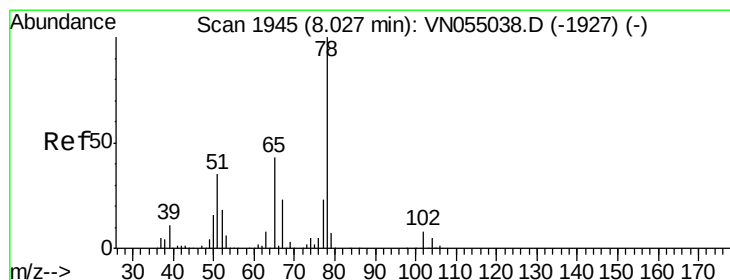
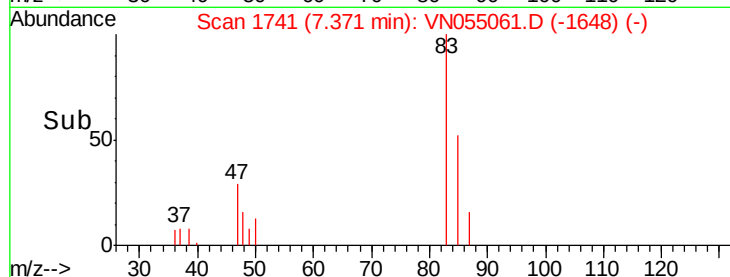
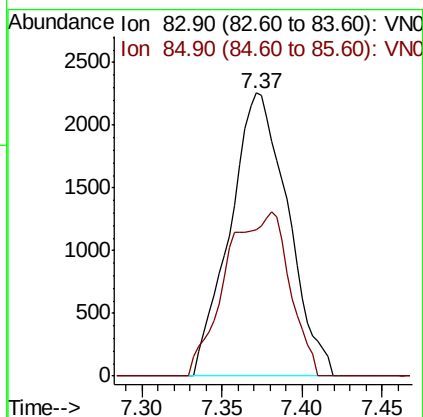
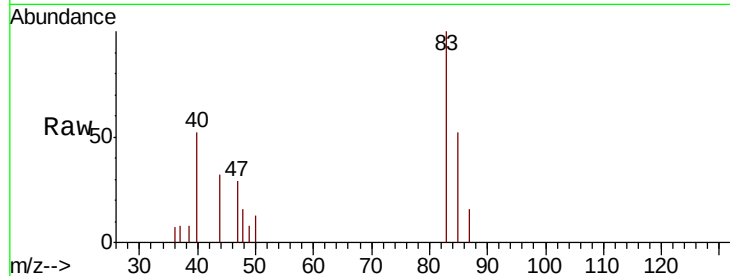




#30
 Chloroform
 Concen: 0.507 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

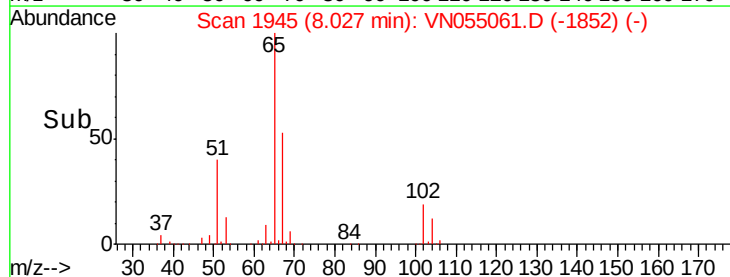
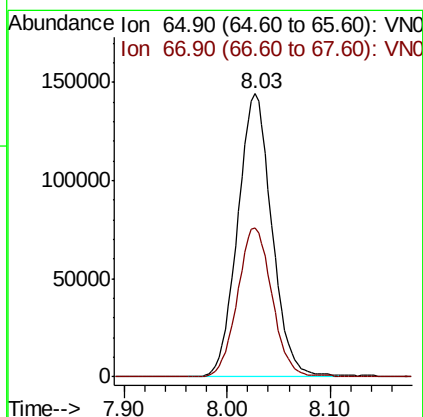
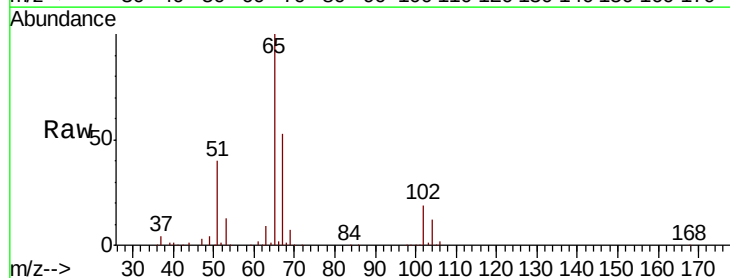
Instrument :
 MSVOA_N
 ClientSampled :
 200050

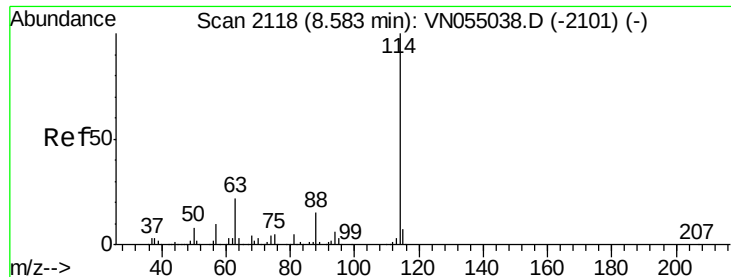
Tot Ion: 83 Resp: 5587
 Ion Ratio Lower Upper
 83 100
 85 51.6 51.8 77.6#



#33
 1,2-Dichloroethane-d4
 Concen: 46.923 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Tgt Ion: 65 Resp: 332413
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampleId :

200050

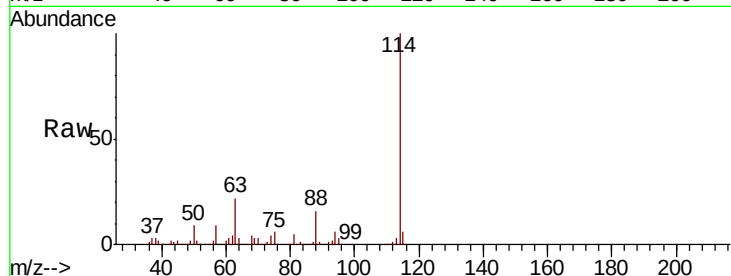
Tot Ion:114 Resp: 850598

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.2

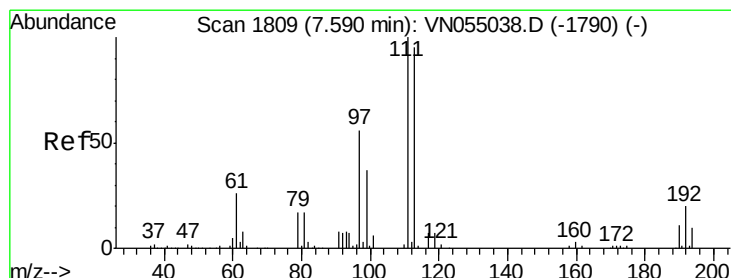
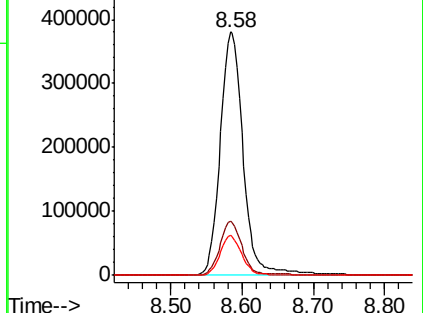
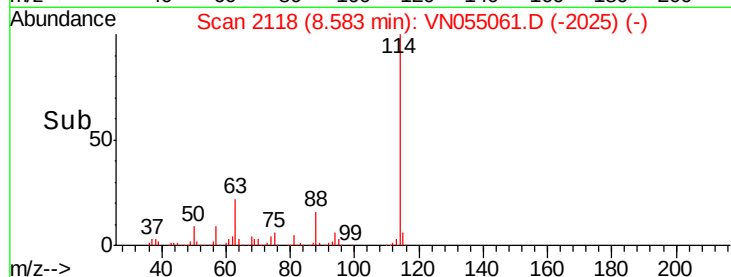
88 16.3 0.0 31.8



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: 47.647 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

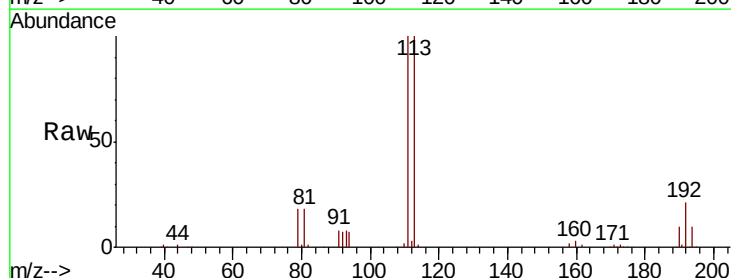
Tgt Ion:113 Resp: 270854

Ion Ratio Lower Upper

113 100

111 101.9 82.1 123.1

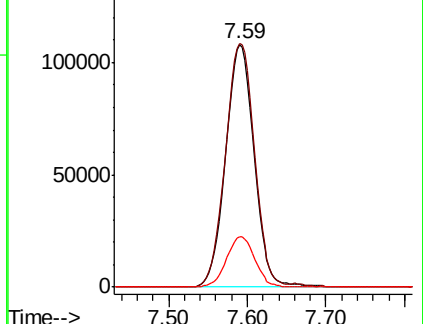
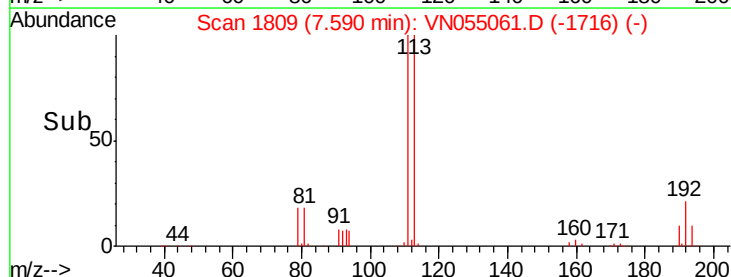
192 20.8 16.5 24.7

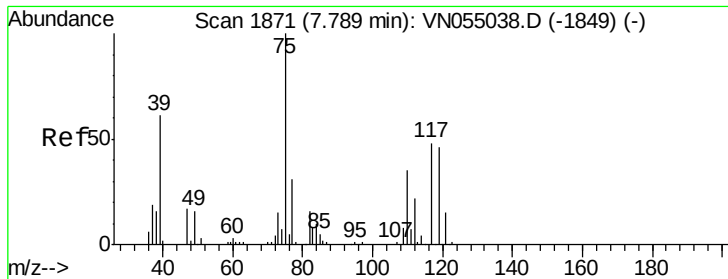


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

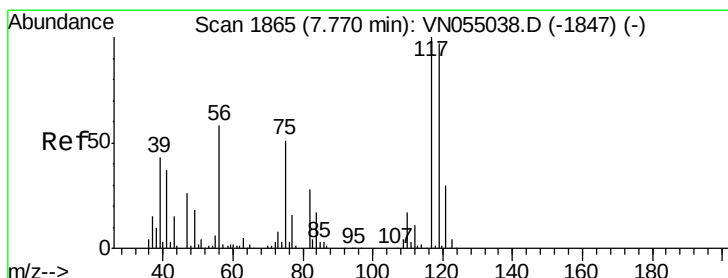
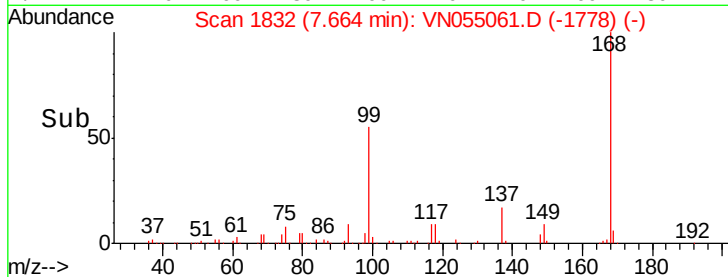
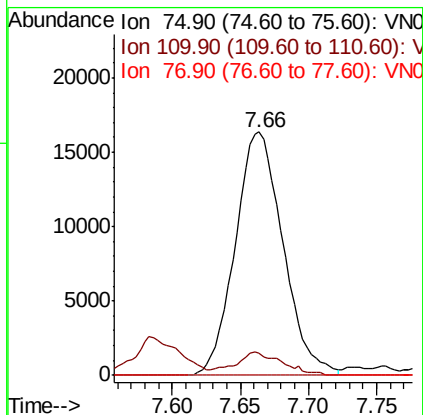
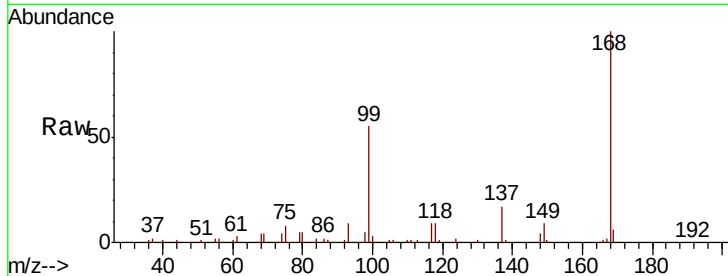




#36
 1,1-Dichloropropene
 Concen: 4.961 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

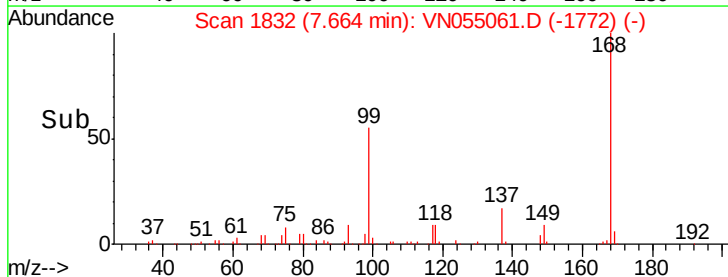
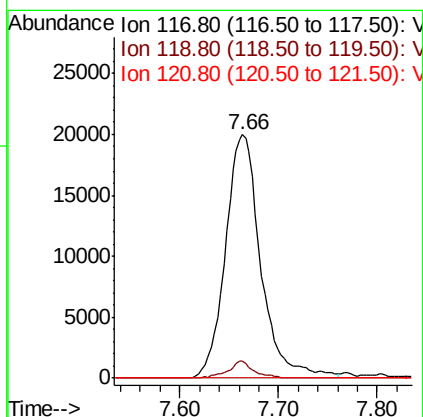
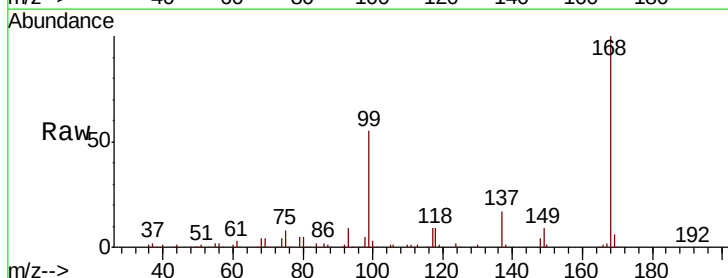
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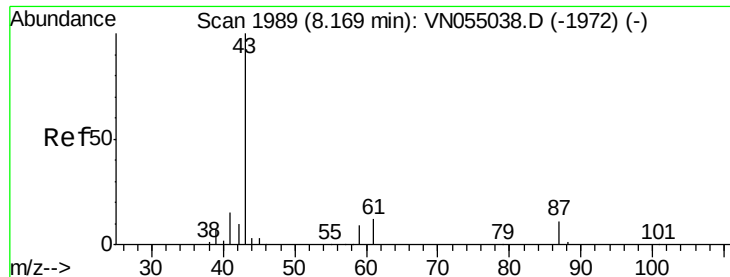
Tot Ion: 75 Resp: 39780
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.5 52.5#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.532 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Tgt Ion: 117 Resp: 49829
 Ion Ratio Lower Upper
 117 100
 119 7.0 76.3 114.5#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 1.240 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampleId :

200050

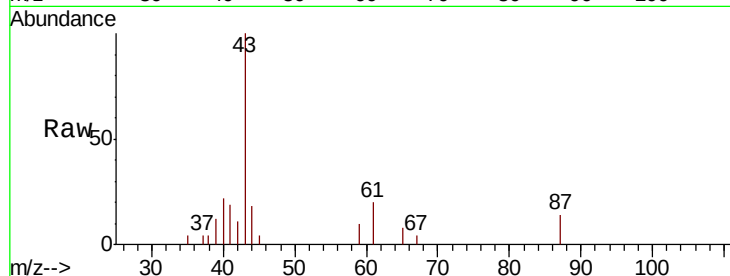
Tot Ion: 43 Resp: 12476

Ion Ratio Lower Upper

43 100

61 17.8 14.3 21.5

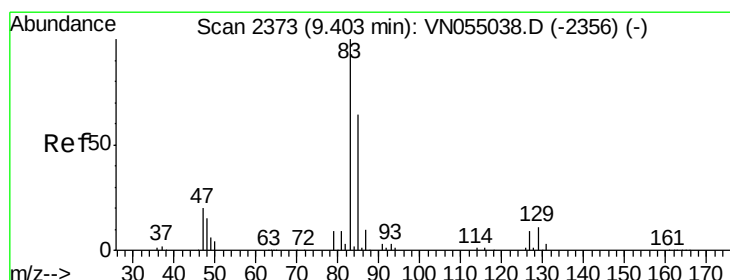
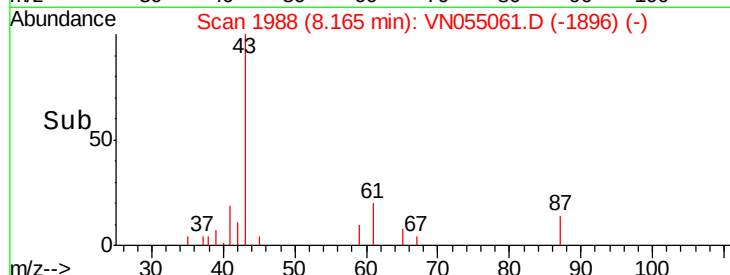
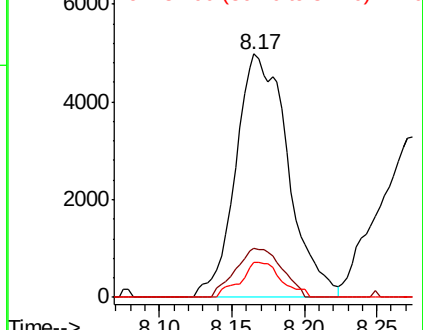
87 11.4 8.6 13.0



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



#47

Bromodichloromethane

Concen: 0.216 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

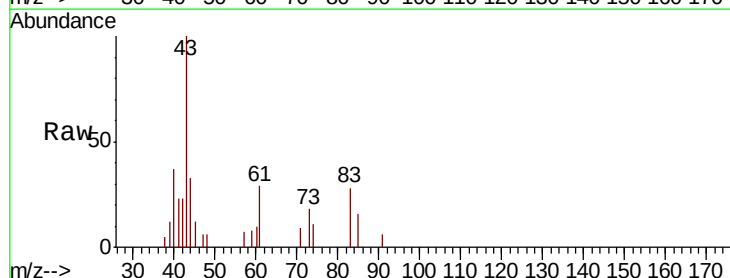
Tgt Ion: 83 Resp: 1706

Ion Ratio Lower Upper

83 100

85 57.6 51.2 76.8

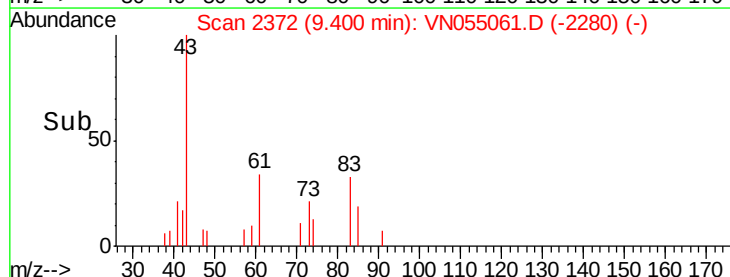
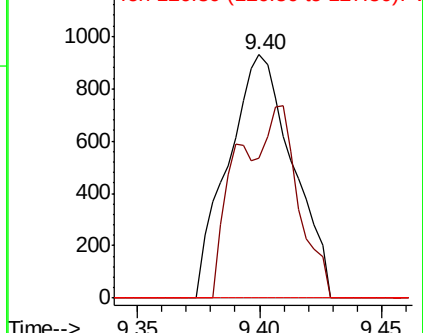
127 0.0 6.8 10.2#

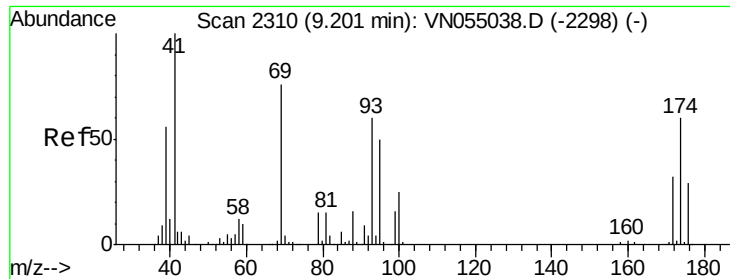


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

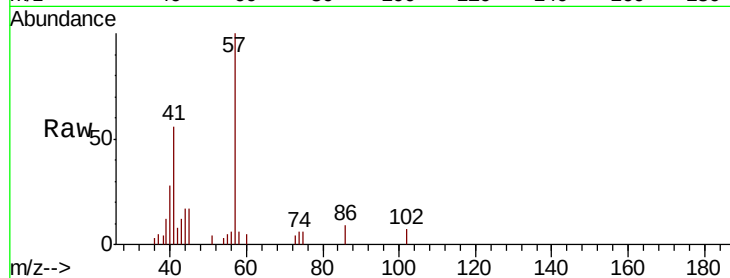




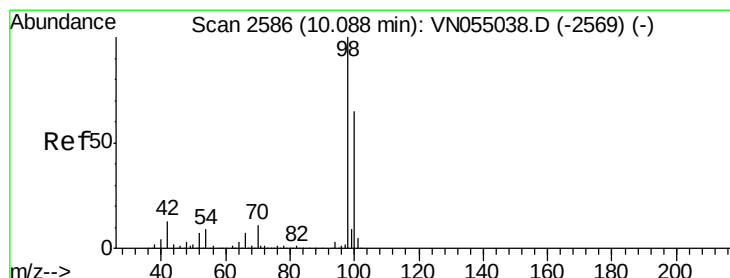
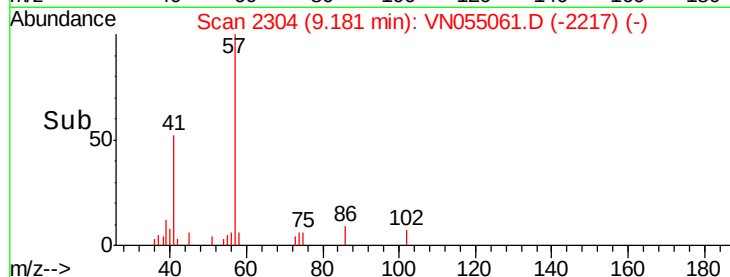
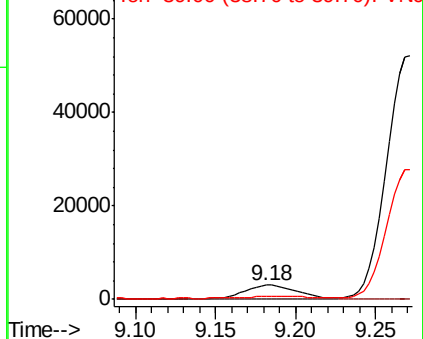
#48
Methvl methacrylate
Concen: 1.418 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

Instrument :
MSVOA_N
ClientSampleId :
200050

Tot Ion: 41 Resp: 7068
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#

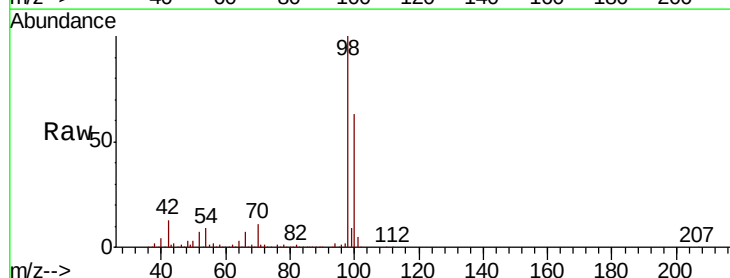


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

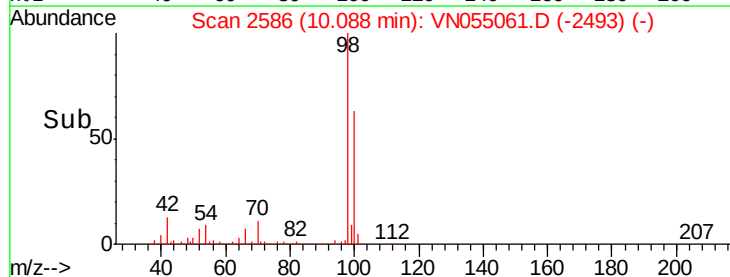
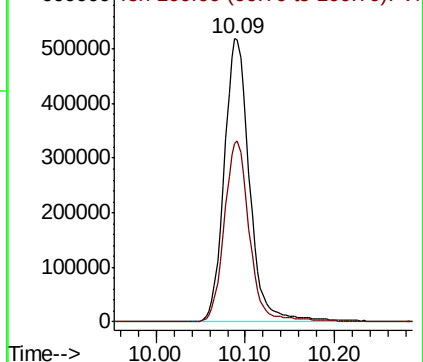


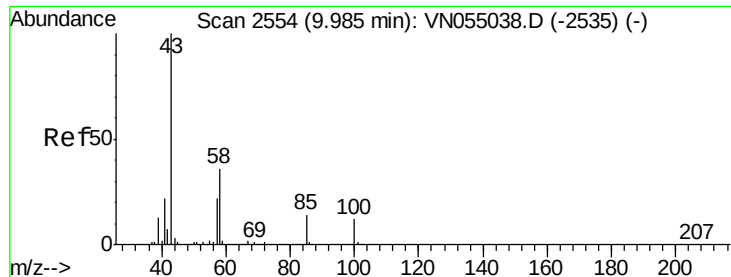
#50
Toluene-d8
Concen: 50.119 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

Tgt Ion: 98 Resp: 1019711
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



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





#51

4-Methyl-2-Pentanone

Concen: 0.685 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampled :

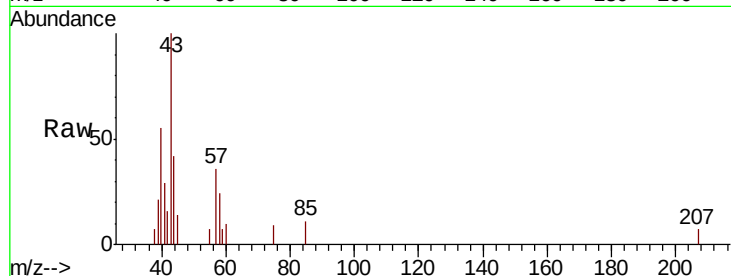
200050

Tot Ion: 43 Resp: 3981

Ion Ratio Lower Upper

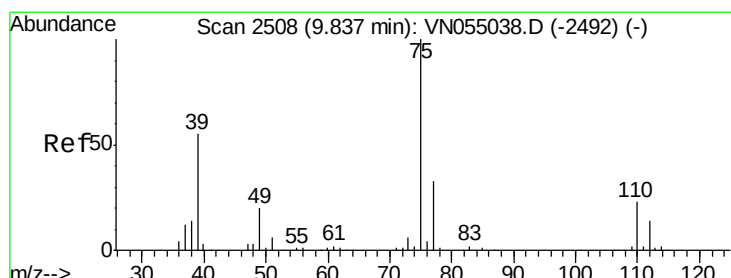
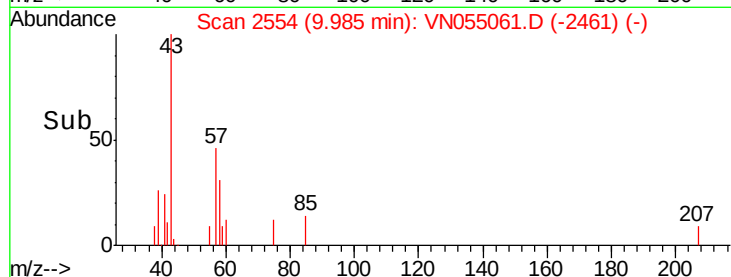
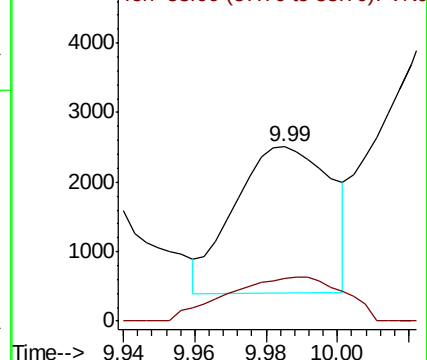
43 100

58 35.7 29.0 43.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.723 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

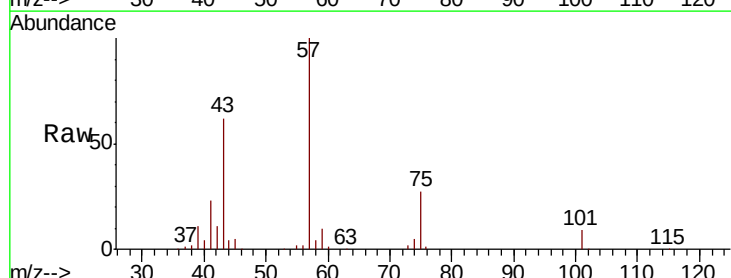
Tgt Ion: 75 Resp: 40516

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

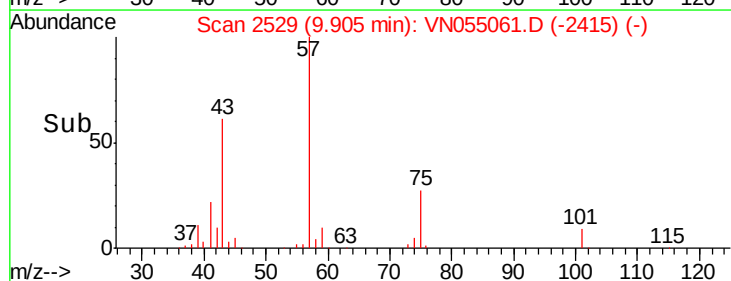
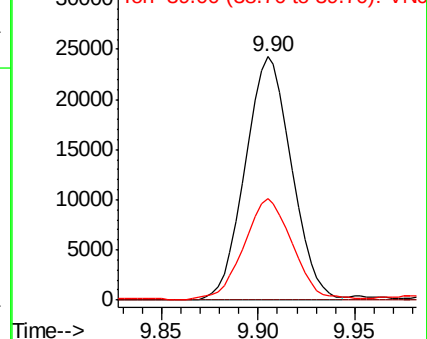
39 41.0 43.8 65.8#

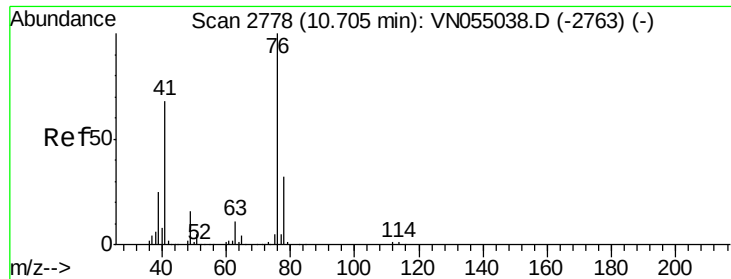


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

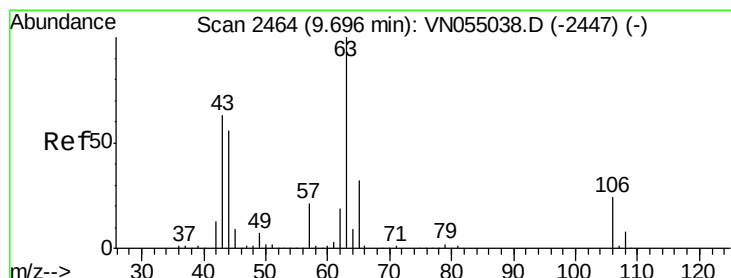
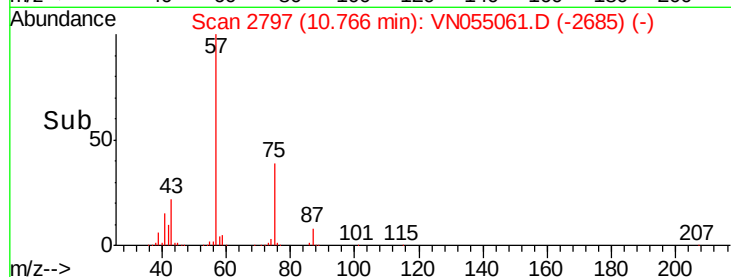
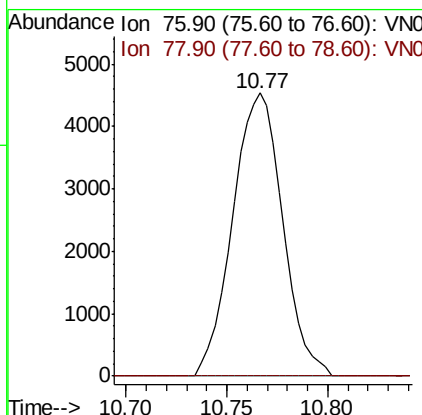
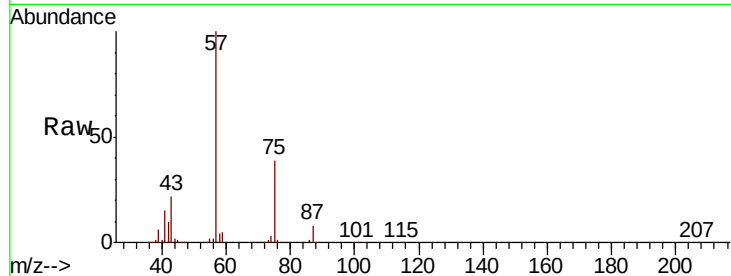




#57
 1,3-Dichloropropane
 Concen: 0.864 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

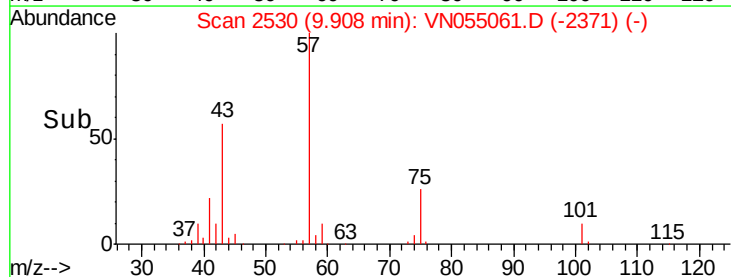
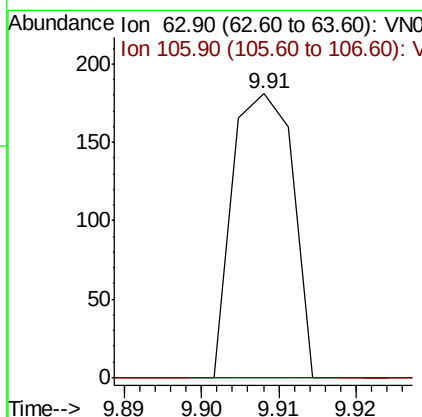
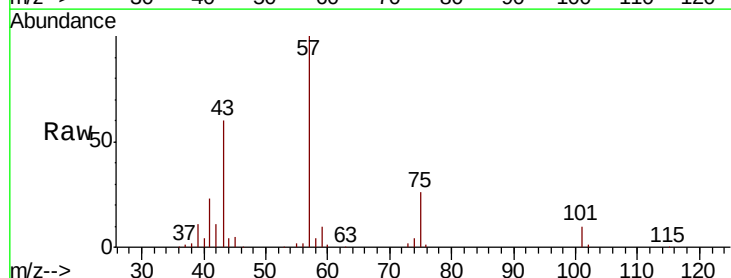
Instrument :
 MSVOA_N
 ClientSampled :
 200050

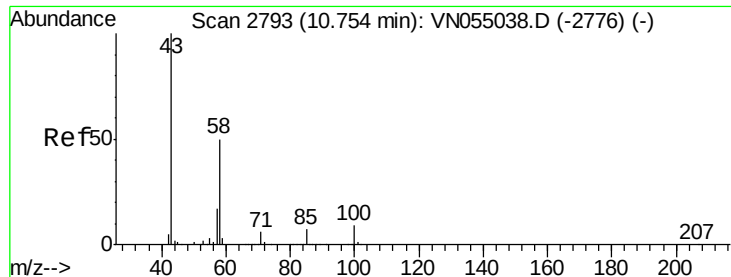
Tot Ion: 76 Resp: 7847
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.771 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.21 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Tgt Ion: 63 Resp: 98
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.0 30.0#

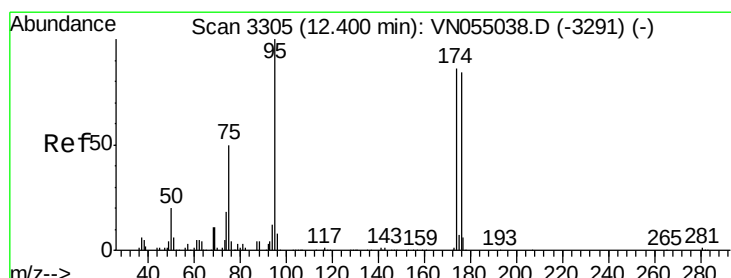
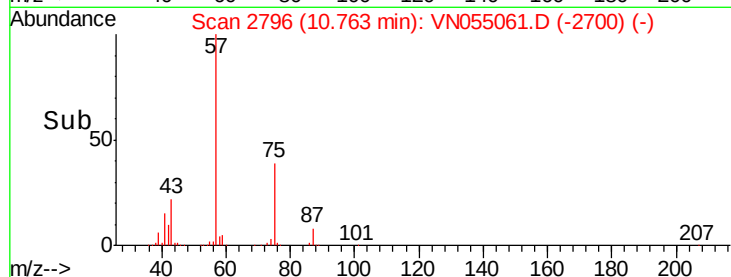
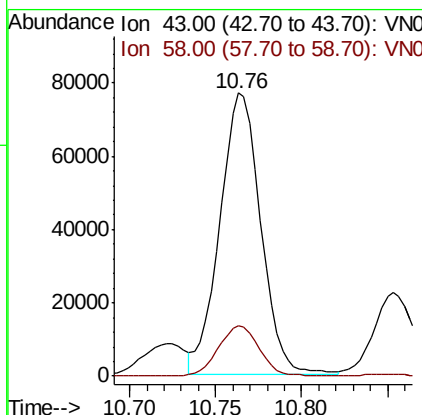
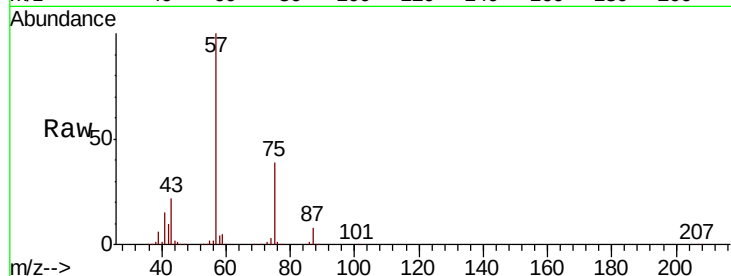




#59
2-Hexanone
Concen: 34.980 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

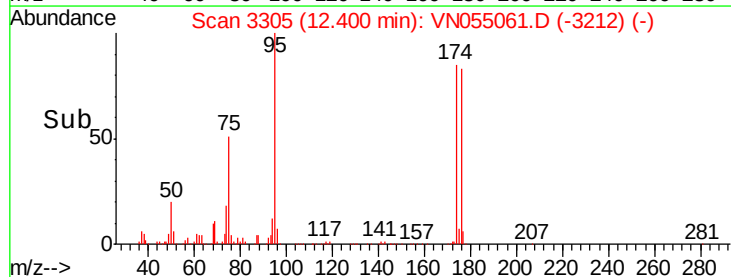
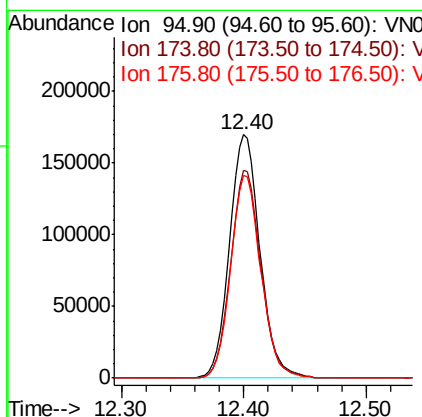
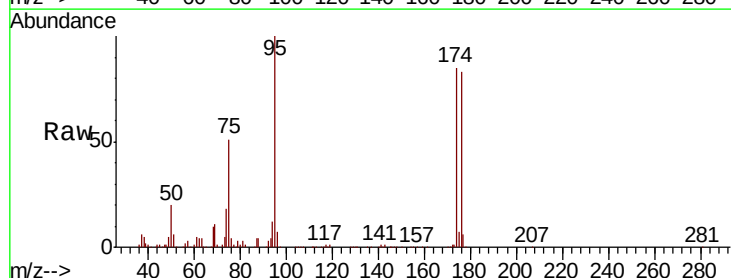
Instrument :
MSVOA_N
ClientSampled :
200050

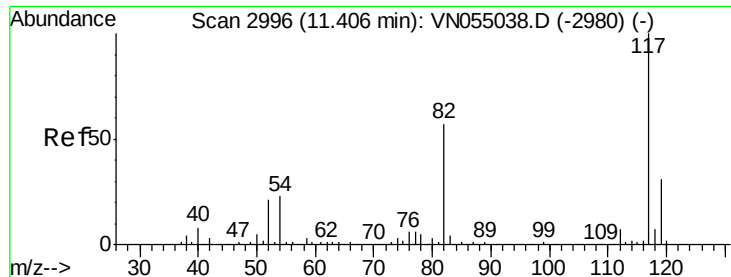
Tot Ion: 43 Resp: 127675
Ion Ratio Lower Upper
43 100
58 18.0 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 44.791 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

Tgt Ion: 95 Resp: 296261
Ion Ratio Lower Upper
95 100
174 84.7 0.0 174.4
176 82.5 0.0 166.8

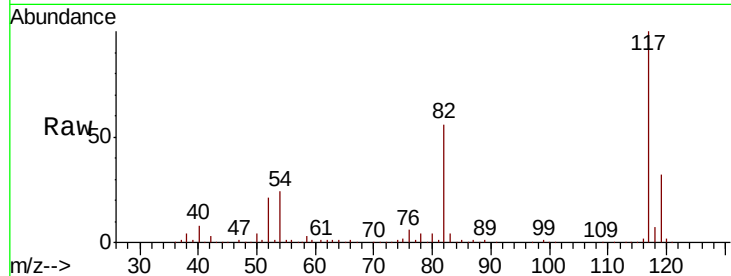




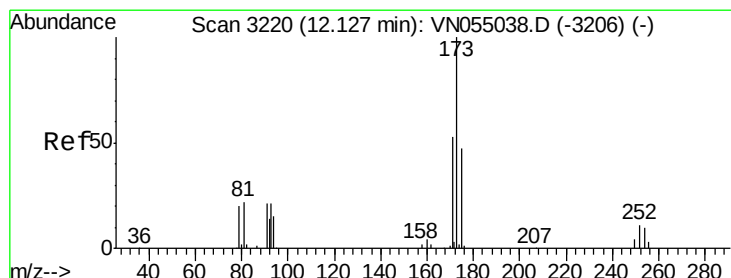
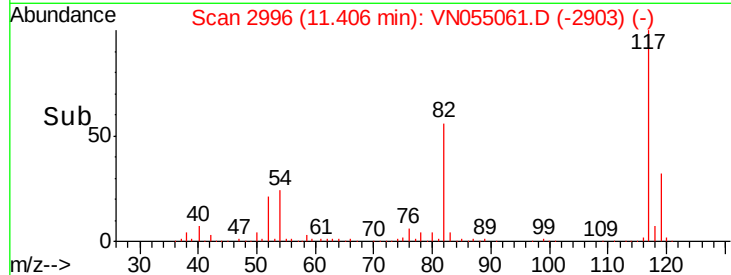
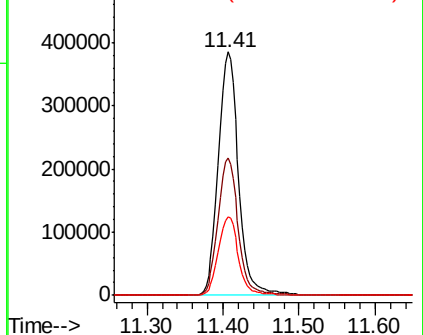
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

Instrument :
MSVOA_N
ClientSampled :
200050

Tot Ion:117 Resp: 711603
Ion Ratio Lower Upper
117 100
82 56.2 44.6 66.8
119 32.5 25.5 38.3

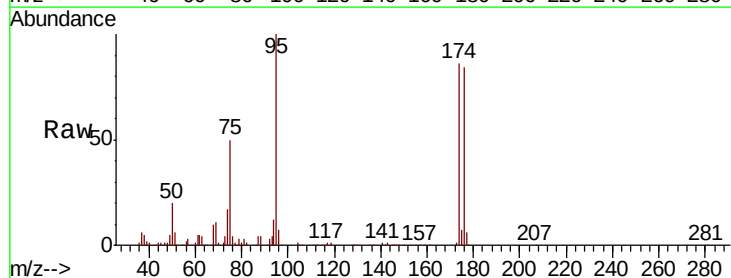


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

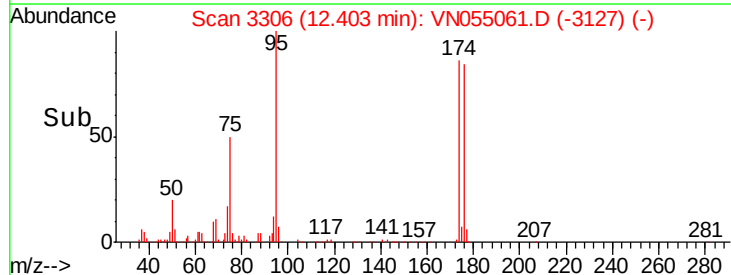
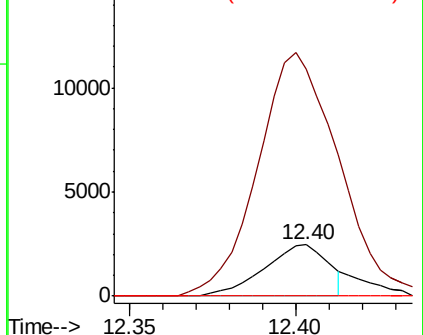


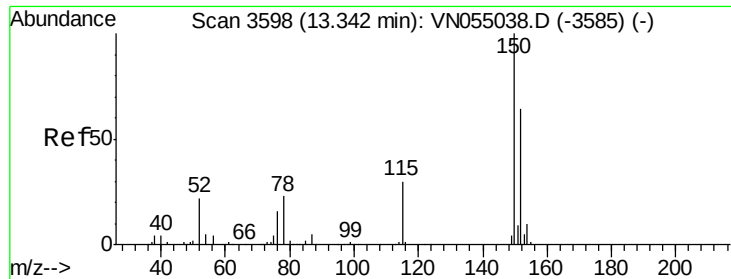
#71
Bromoform
Concen: 1.098 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055061.D
Acq: 15 Apr 2019 23:32

Tgt Ion:173 Resp: 3316
Ion Ratio Lower Upper
173 100
175 518.0 24.3 73.0#
254 0.0 0.1 0.1#



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# 3598

Delta R.T. 0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampled :

200050

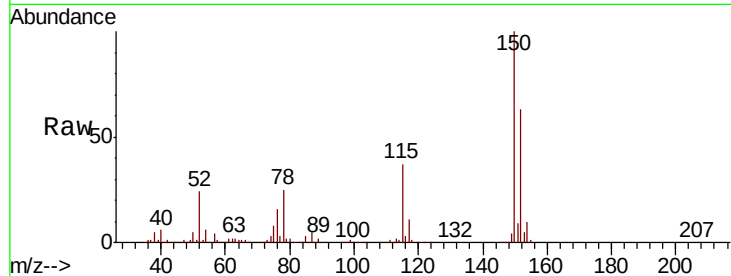
Tot Ion:152 Resp: 223599

Ion Ratio Lower Upper

152 100

115 58.9 28.5 85.6

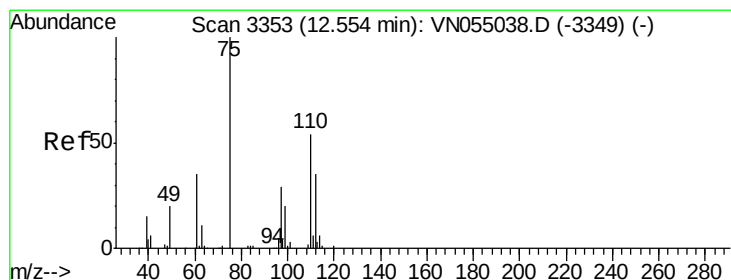
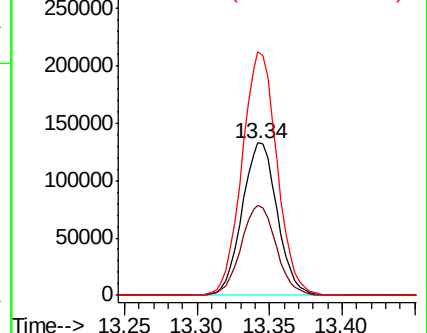
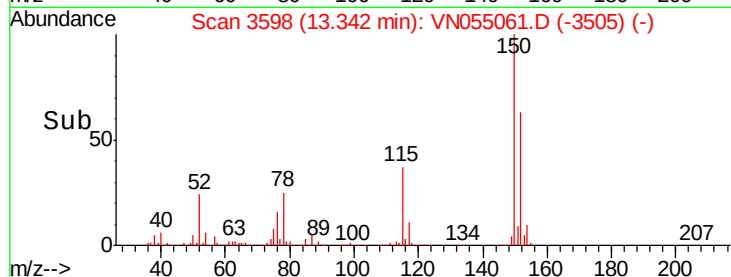
150 159.1 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 37.340 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055061.D

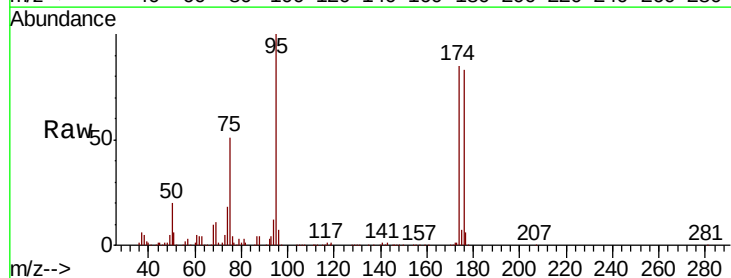
Acq: 15 Apr 2019 23:32

Tgt Ion: 75 Resp: 150138

Ion Ratio Lower Upper

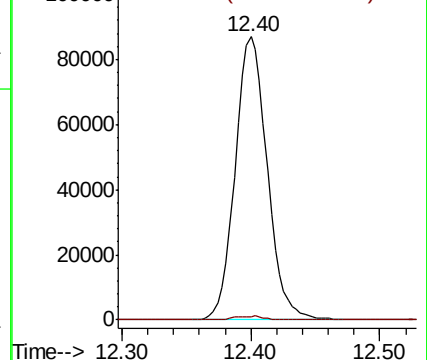
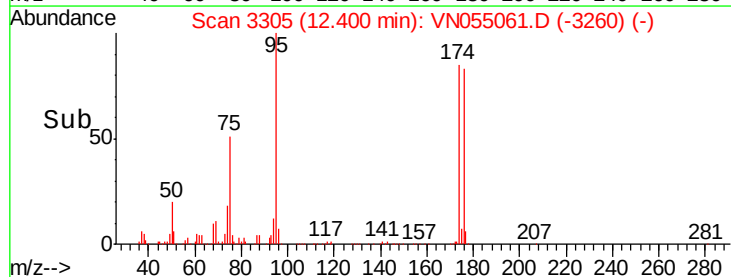
75 100

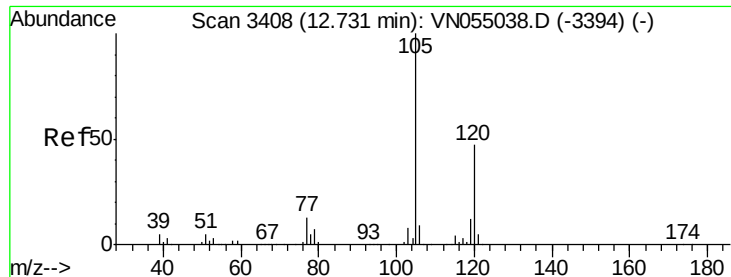
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.251 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

Instrument :

MSVOA_N

ClientSampleId :

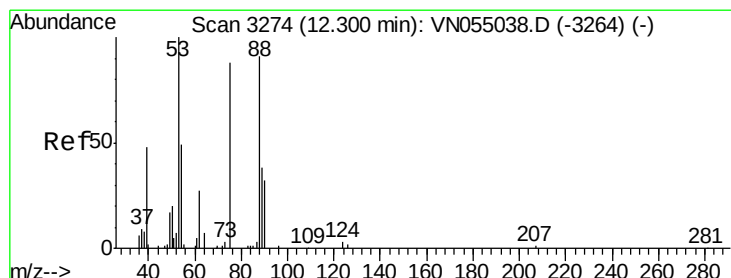
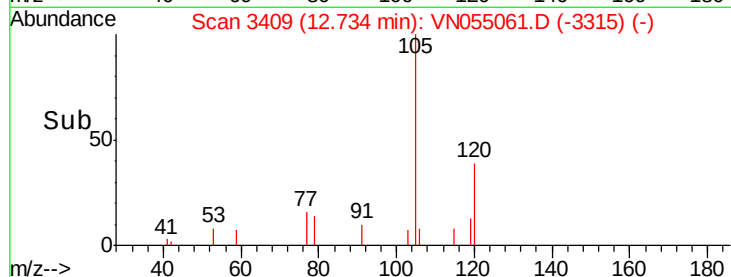
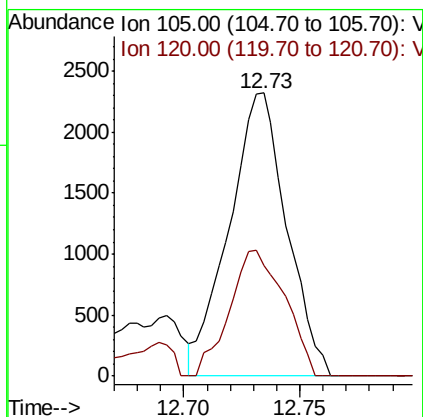
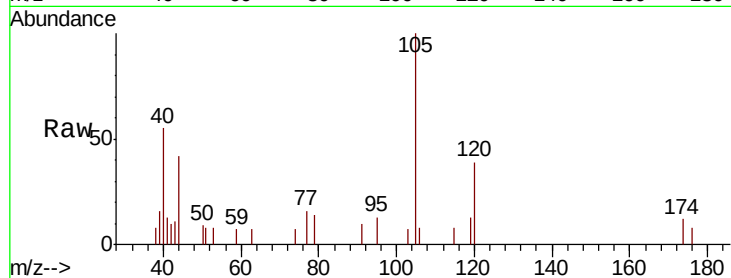
200050

Tot Ion:105 Resp: 4014

Ion Ratio Lower Upper

105 100

120 42.4 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 149.317 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055061.D

Acq: 15 Apr 2019 23:32

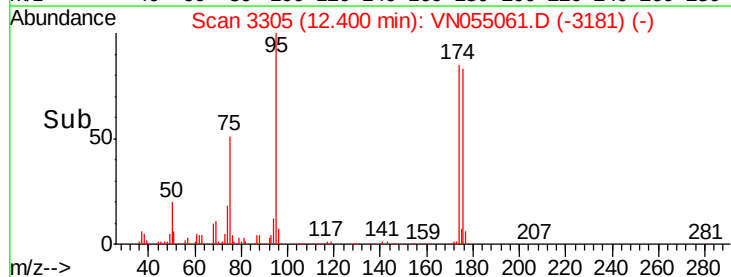
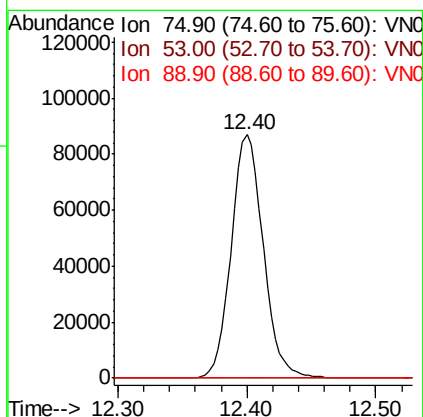
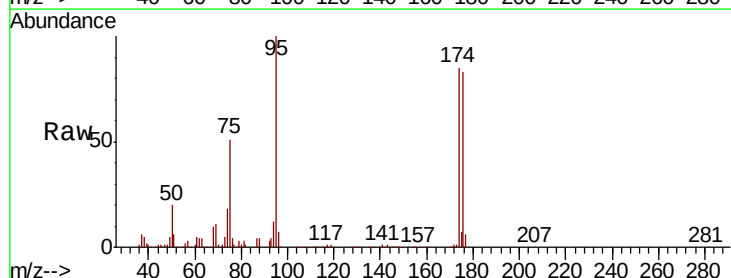
Tgt Ion: 75 Resp: 150138

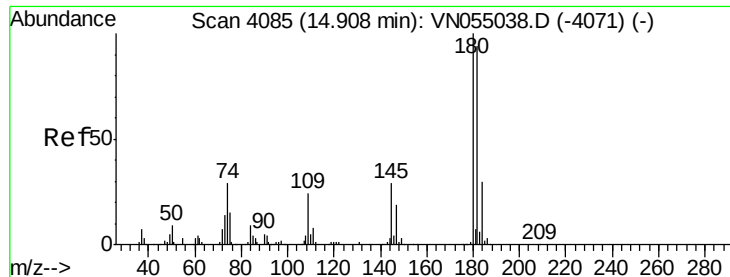
Ion Ratio Lower Upper

75 100

53 0.1 96.3 144.5#

89 0.0 38.6 57.8#

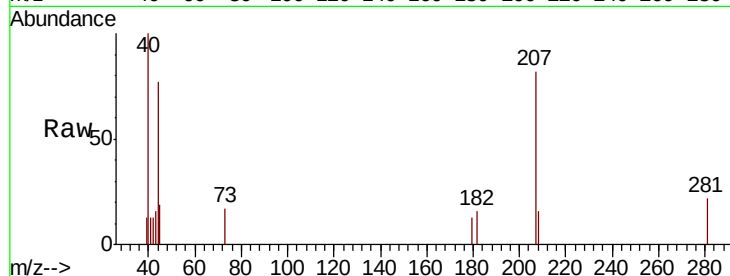




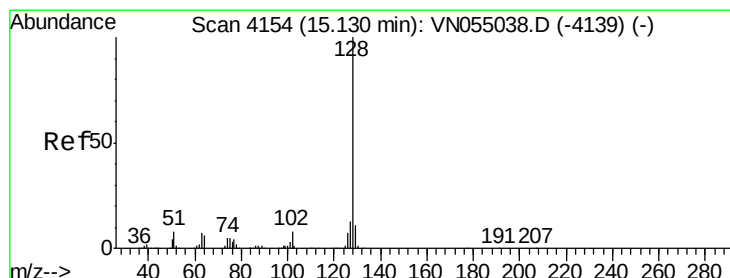
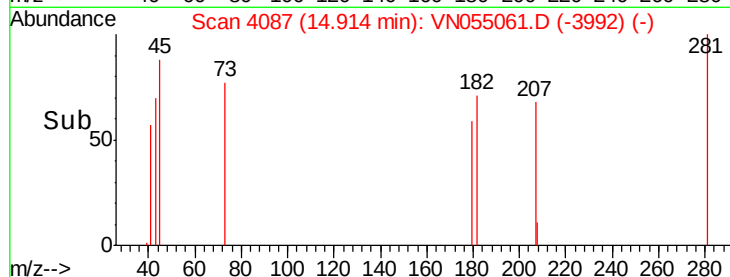
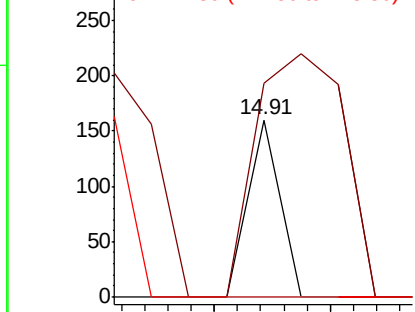
#93
 1,2,4-Trichlorobenzene
 Concen: 2.686 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Instrument :
 MSVOA_N
 ClientSampleId :
 200050

Tot Ion:180 Resp: 31
 Ion Ratio Lower Upper
 180 100
 182 377.4 47.5 142.6#
 145 0.0 14.2 42.8#

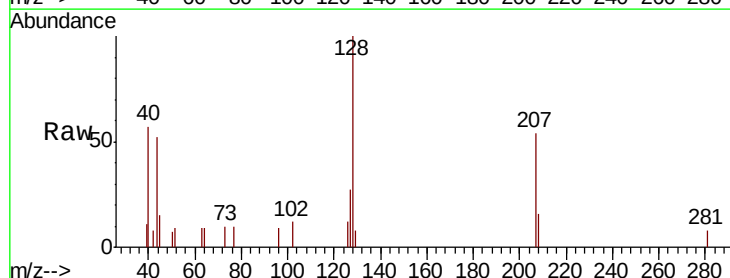


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.550 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN055061.D
 Acq: 15 Apr 2019 23:32

Tgt Ion:128 Resp: 4023
 Ion Ratio Lower Upper
 128 100
 127 15.9 10.1 15.1#
 129 9.4 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

