

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021320\
 Data File : VN060091.D
 Acq On : 13 Feb 2020 13:51
 Operator : JC/MD
 Sample : L1509-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

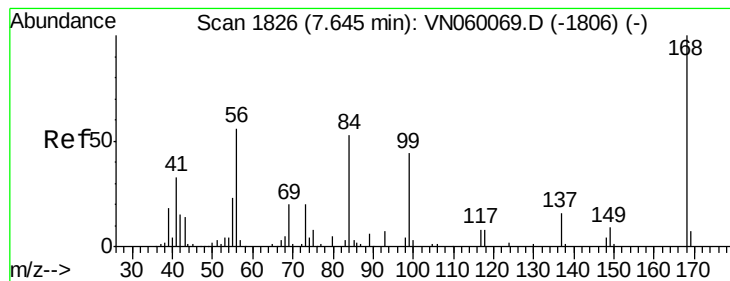
Quant Time: Feb 14 04:56:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	288745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136765	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	114636	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	7.57	113	91620	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
50) Toluene-d8	10.08	98	373804	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.40	95	135970	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7082	6.844	ug/l	97
20) Methylene Chloride	4.52	84	15143	7.335	ug/l	96
25) 2-Butanone	6.82	43	530	0.407	ug/l #	46
31) Cyclohexane	7.64	56	4029	1.201	ug/l #	15
36) 1,1-Dichloropropene	7.64	75	13822	4.818	ug/l #	48
37) Ethyl Acetate	6.82	43	530	0.204	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18399	5.906	ug/l #	15
43) Isopropyl Acetate	8.14	43	33304	7.515	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	542	0.257	ug/l #	43
48) Methyl methacrylate	9.17	41	1561	0.785	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	2361	0.920	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	15313	4.256	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	2313	0.658	ug/l #	43
59) 2-Hexanone	10.75	43	32129	16.213	ug/l #	52
74) N-amyl acetate	12.03	43	2386	0.648	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	70642	26.998	ug/l #	100
77) Bromobenzene	12.52	156	920	0.363	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	70642	66.104	ug/l #	12
90) Hexachloroethane	13.99	117	1513	0.899	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.24	75	29	Below Cal	#	1
95) Naphthalene	15.13	128	5748	0.825	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060091.D

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Instrument :

MSVOA_N

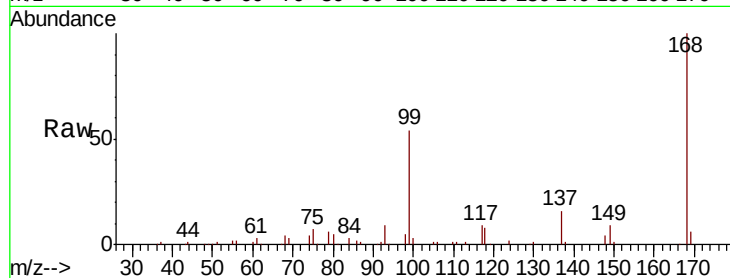
ClientSampled :

Tot Ion:168 Resp: 194958

Ion Ratio Lower Upper

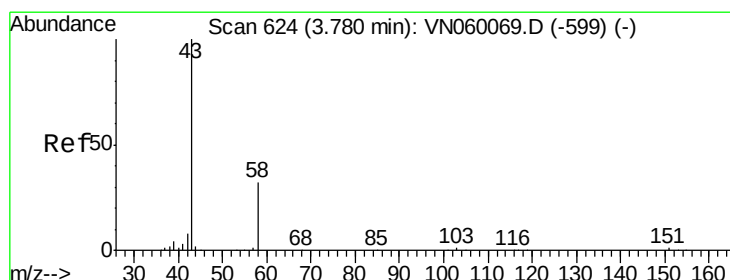
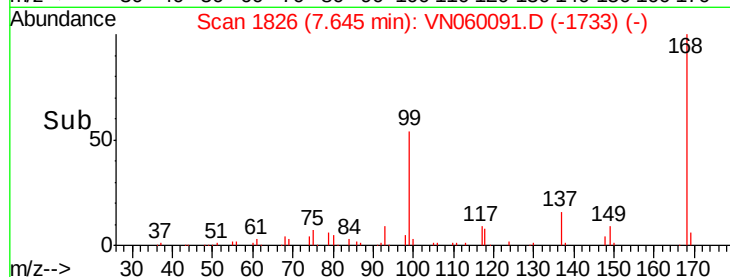
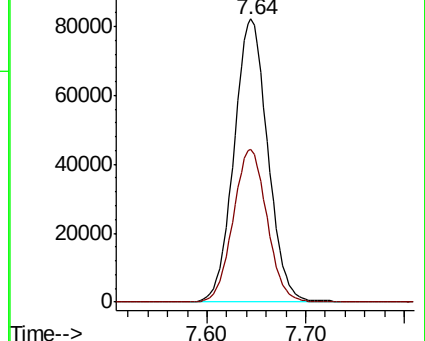
168 100

99 53.8 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.844 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060091.D

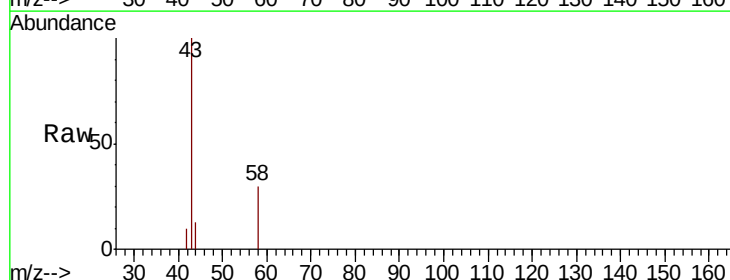
Acq: 13 Feb 2020 13:51

Tgt Ion: 43 Resp: 7082

Ion Ratio Lower Upper

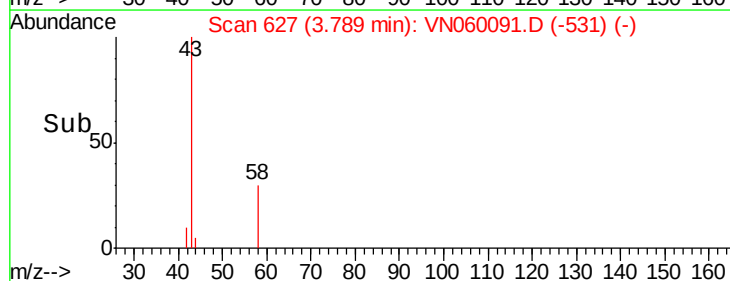
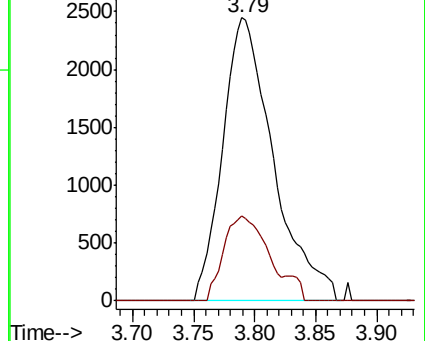
43 100

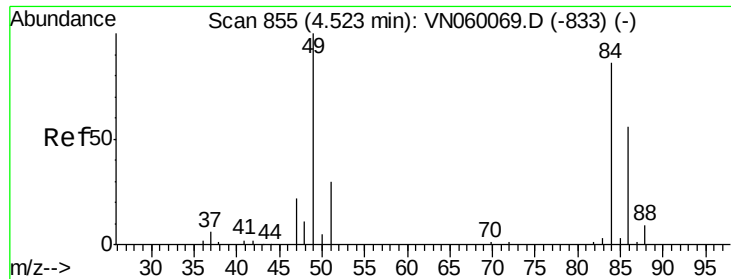
58 29.9 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

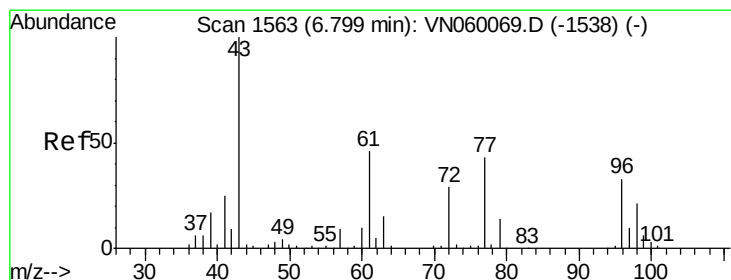
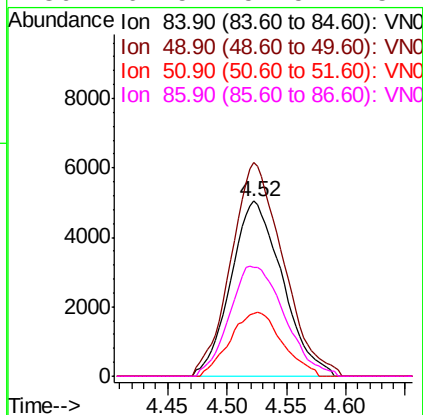
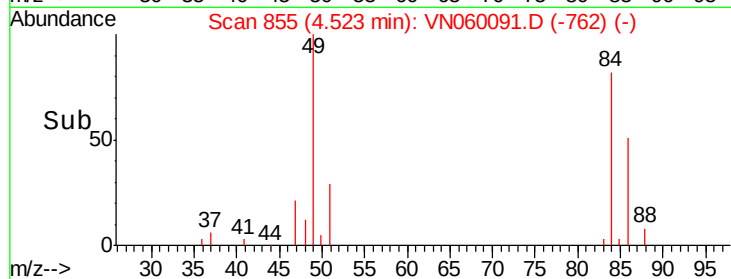
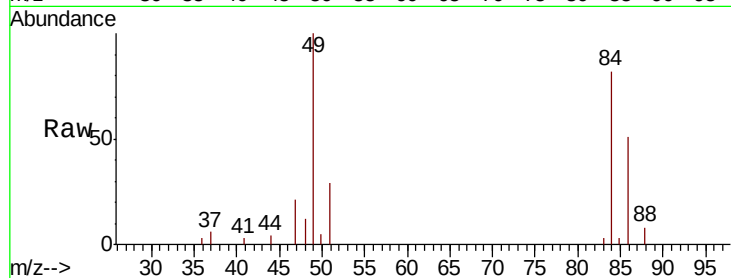




#20
Methvlene Chloride
Concen: 7.335 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

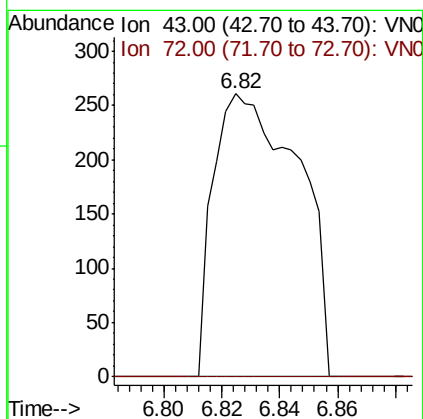
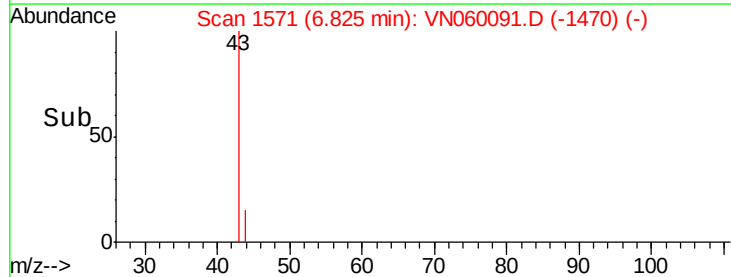
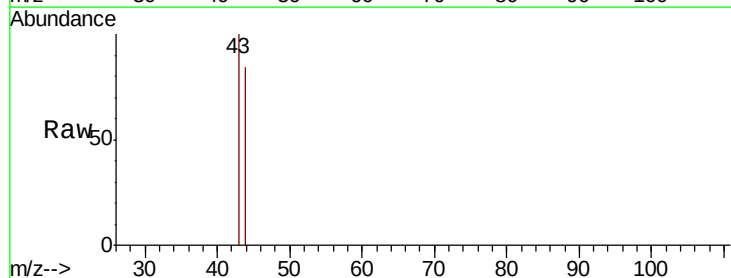
Instrument :
MSVOA_N
ClientSampleId :

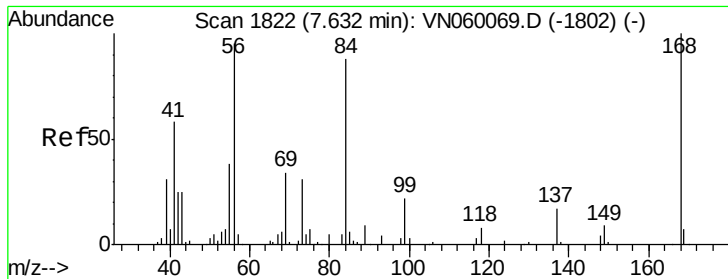
Tot Ion: 84 Resp: 15143
Ion Ratio Lower Upper
84 100
49 122.0 93.4 140.0
51 35.8 28.4 42.6
86 62.5 52.5 78.7



#25
2-Butanone
Concen: 0.407 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.03 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion: 43 Resp: 530
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#

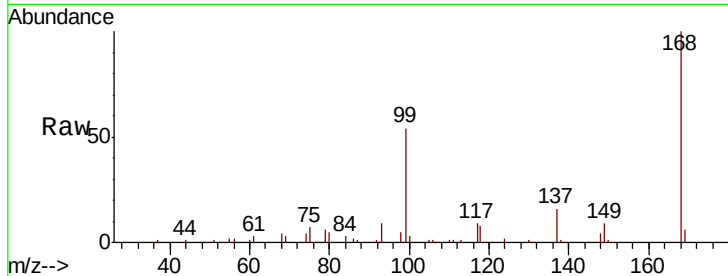




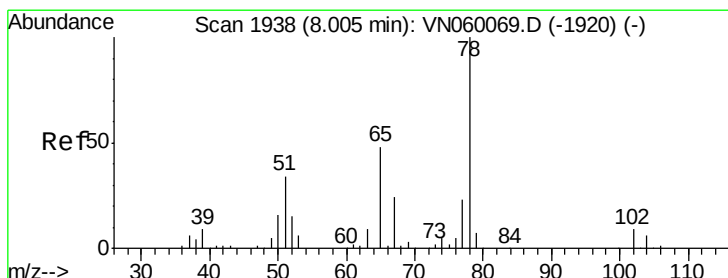
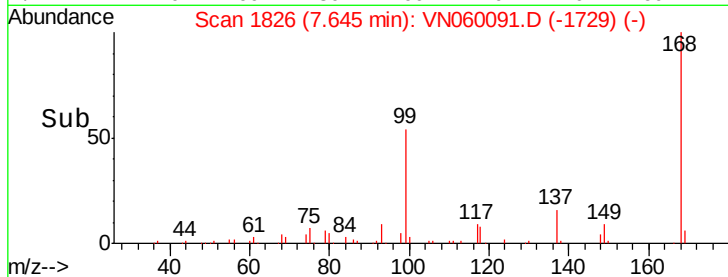
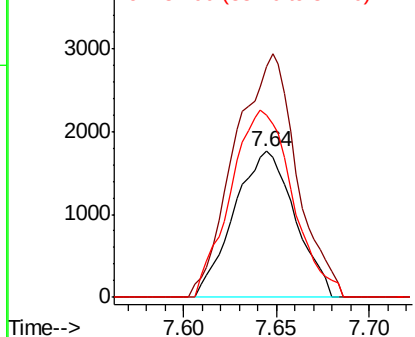
#31
Cyclohexane
Concen: 1.201 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4029
Ion Ratio Lower Upper
56 100
69 158.8 28.3 42.5#
84 124.7 72.6 108.8#

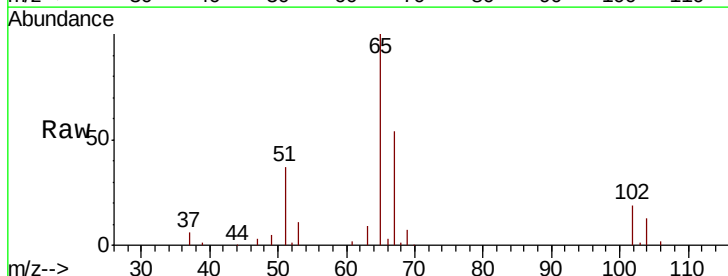


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

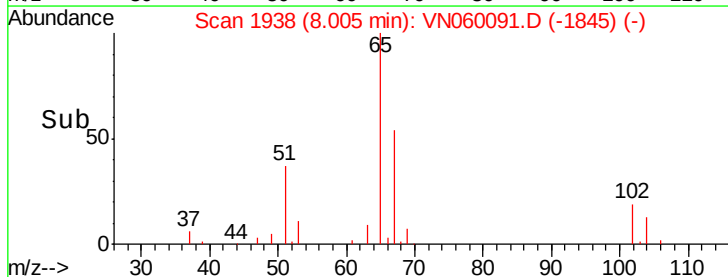
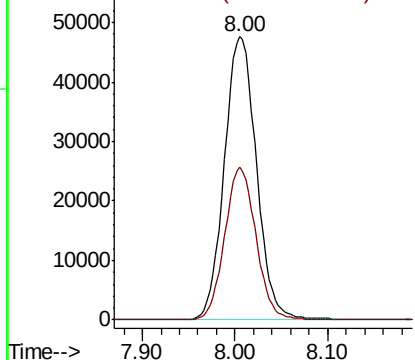


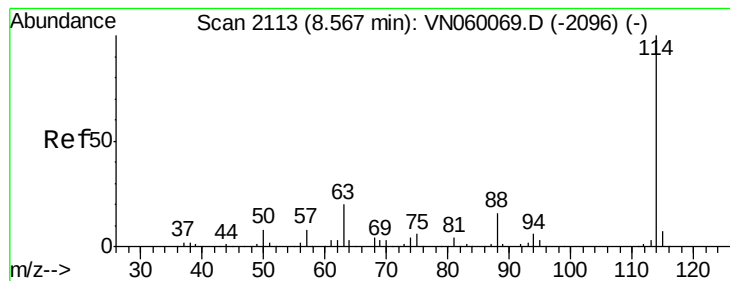
#33
1,2-Dichloroethane-d4
Concen: 48.323 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion: 65 Resp: 114636
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.0



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: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

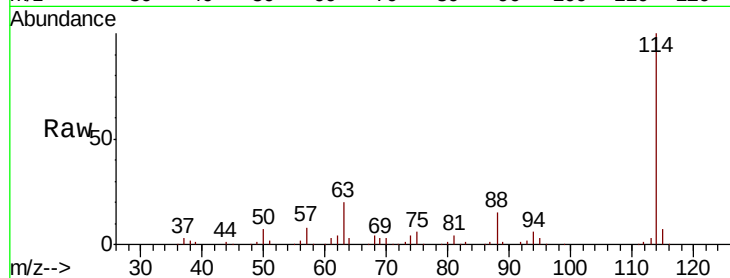
Tot Ion:114 Resp: 309717

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.0

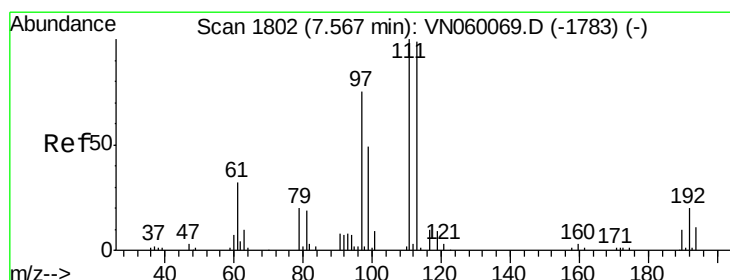
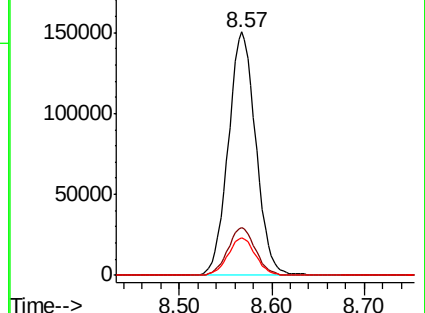
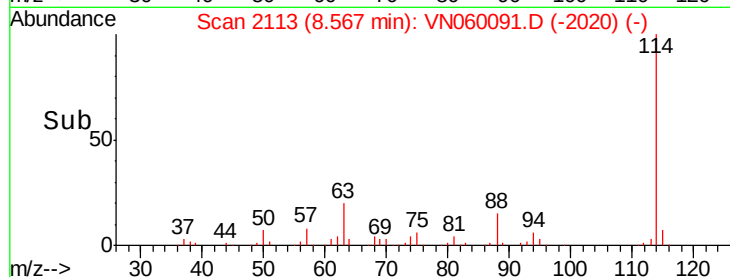
88 15.2 0.0 31.6



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: 48.124 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

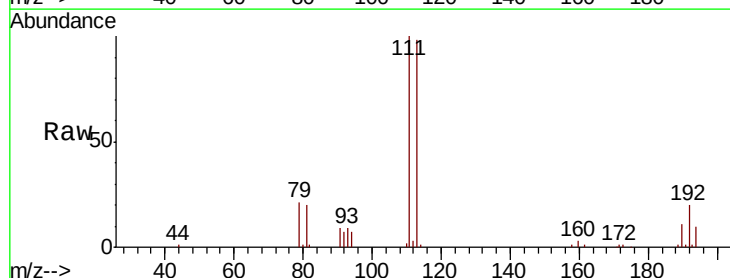
Tgt Ion:113 Resp: 91620

Ion Ratio Lower Upper

113 100

111 104.5 81.4 122.2

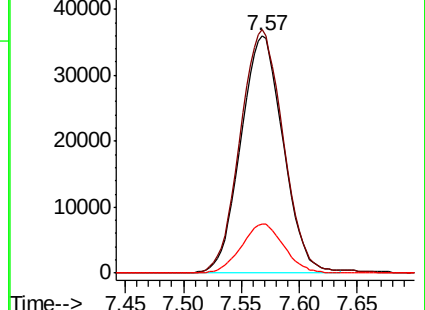
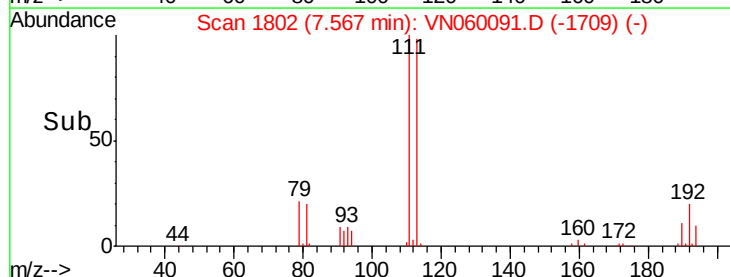
192 20.7 16.2 24.2

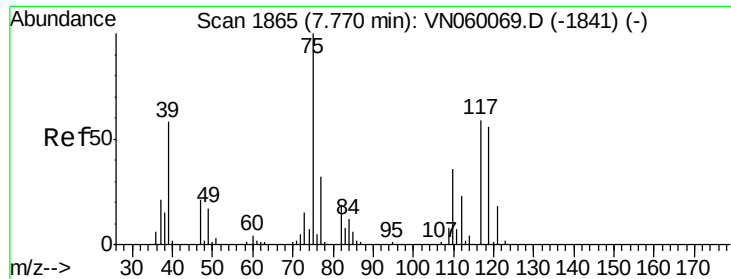


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

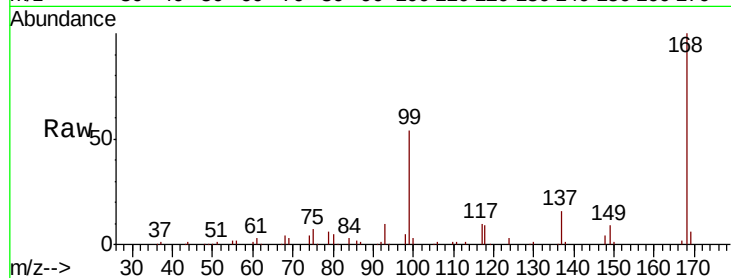




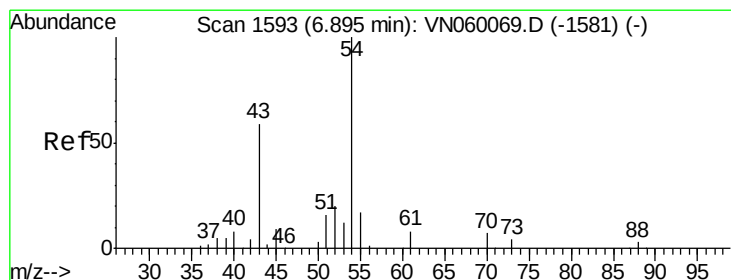
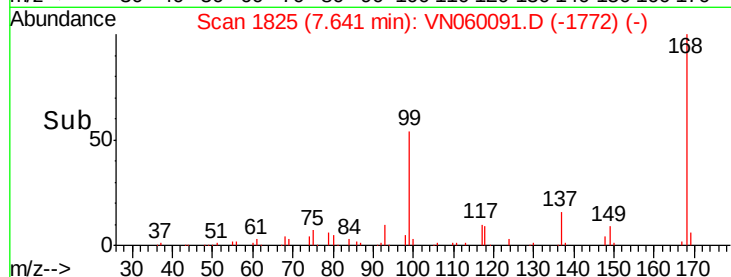
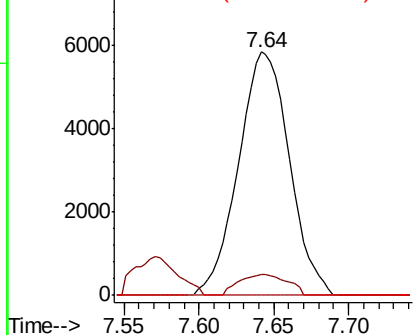
#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060091.D
 Acq: 13 Feb 2020 13:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 13822
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.1 54.3#
 77 0.0 25.1 37.7#

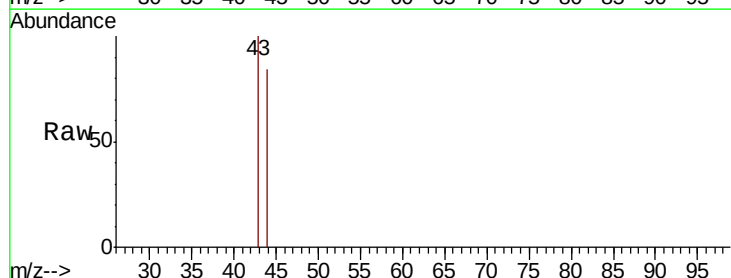


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

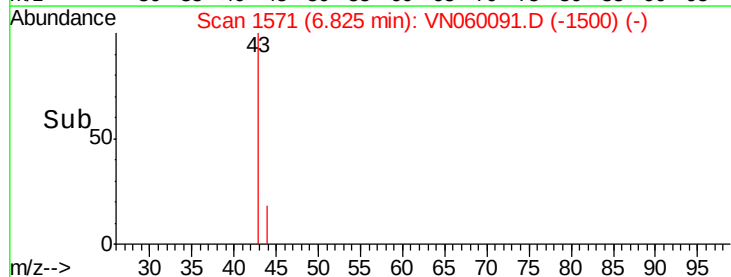
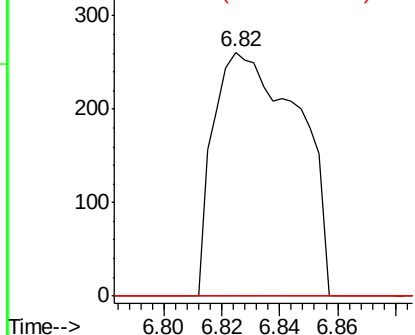


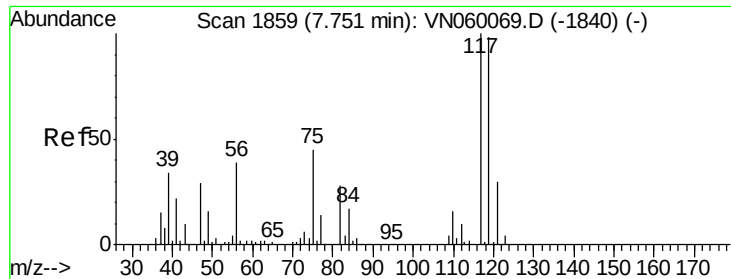
#37
 Ethyl Acetate
 Concen: 0.204 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.07 min
 Lab File: VN060091.D
 Acq: 13 Feb 2020 13:51

Tgt Ion: 43 Resp: 530
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.906 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

ClientSampled :

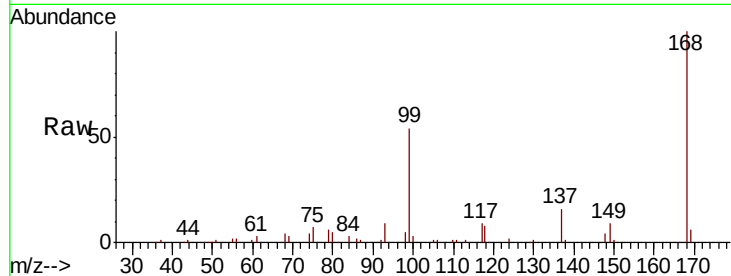
Tot Ion:117 Resp: 18399

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.4#

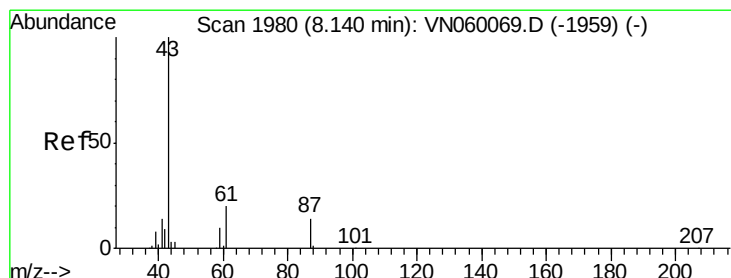
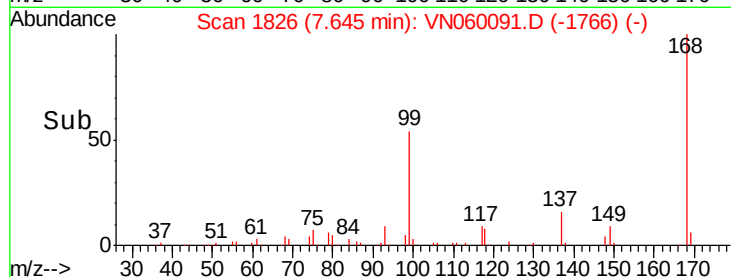
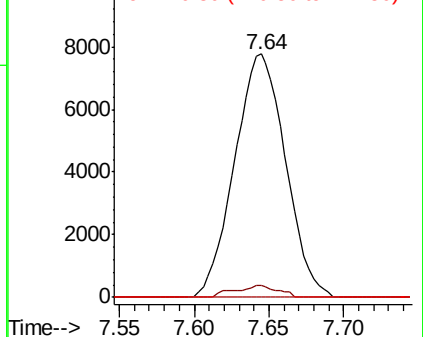
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.515 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

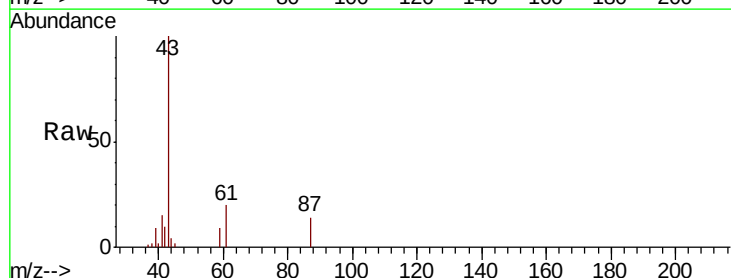
Tgt Ion: 43 Resp: 33304

Ion Ratio Lower Upper

43 100

61 19.7 21.8 32.6#

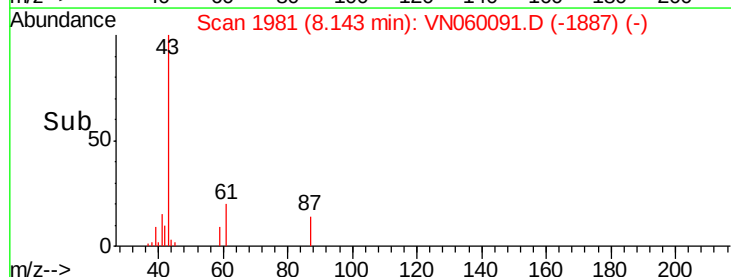
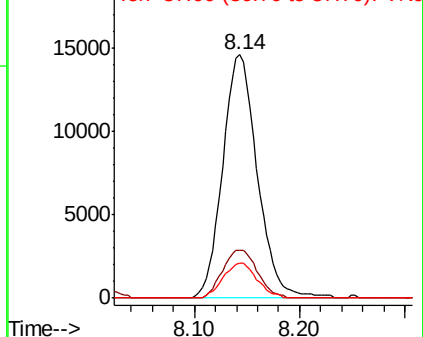
87 13.9 11.4 17.2

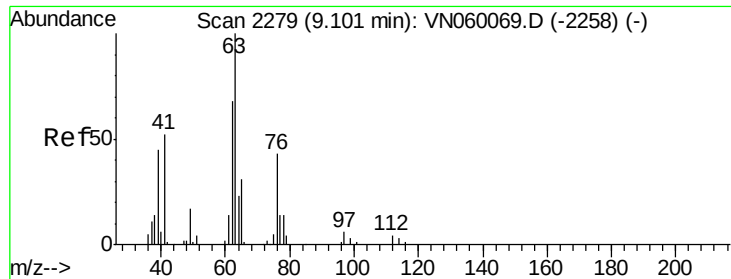


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.257 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

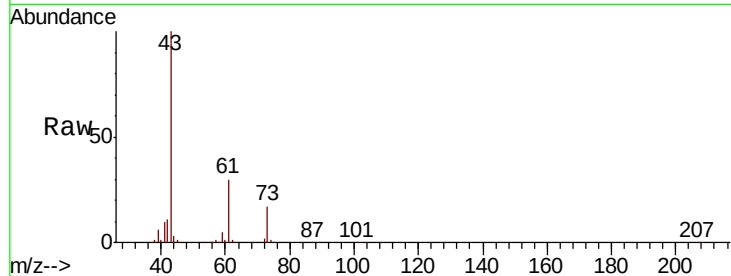
ClientSampled :

Tot Ion: 63 Resp: 542

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

400

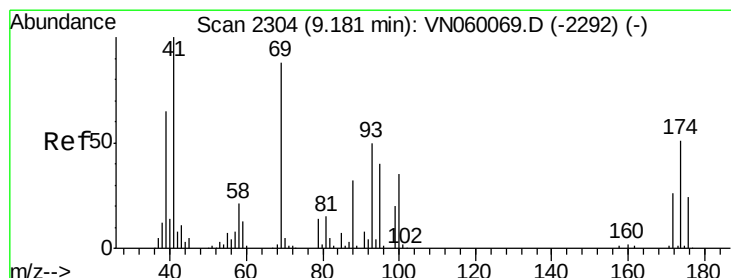
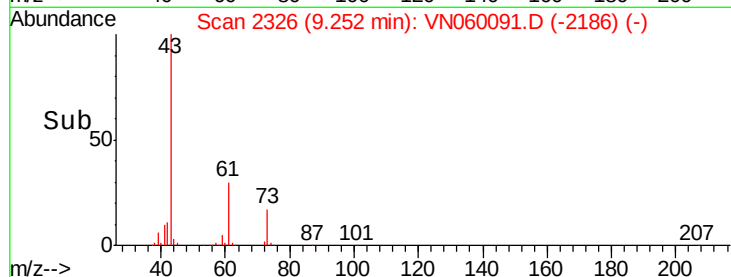
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 0.785 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

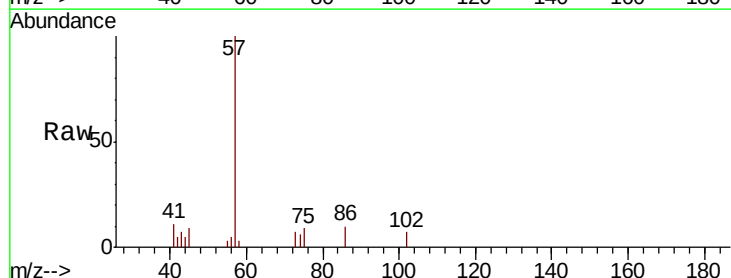
Tgt Ion: 41 Resp: 1561

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

39 0.0 54.1 81.1#



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

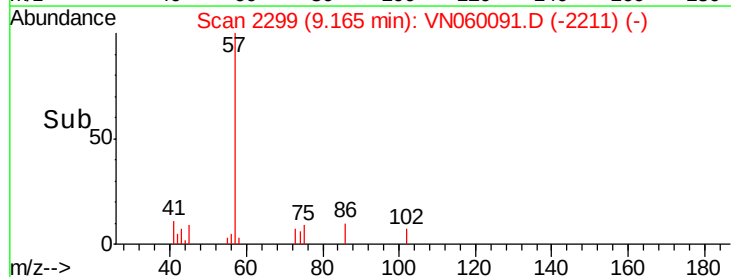
15000

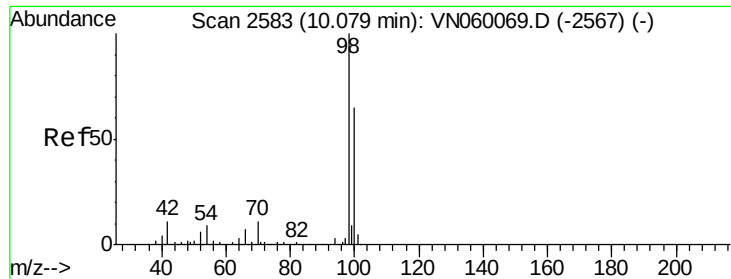
10000

5000

0

Time-->

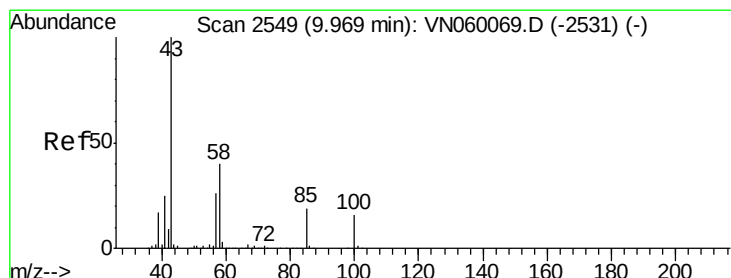
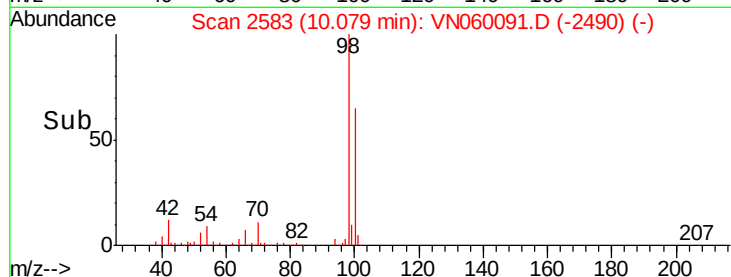
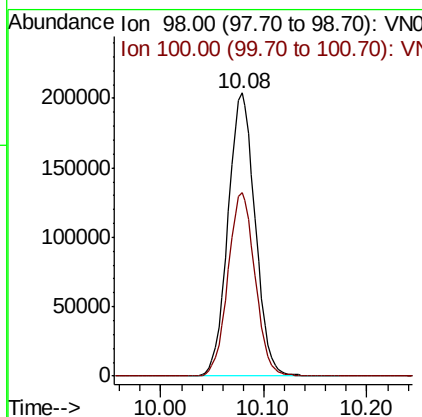
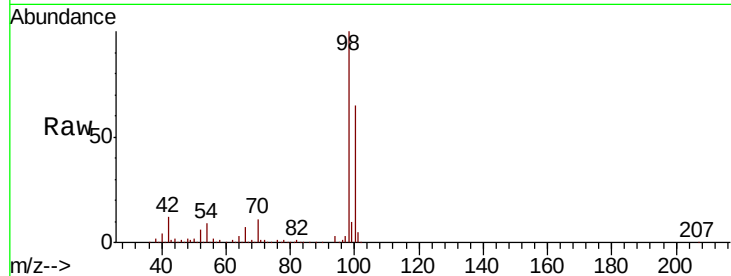




#50
Toluene-d8
Concen: 49.859 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

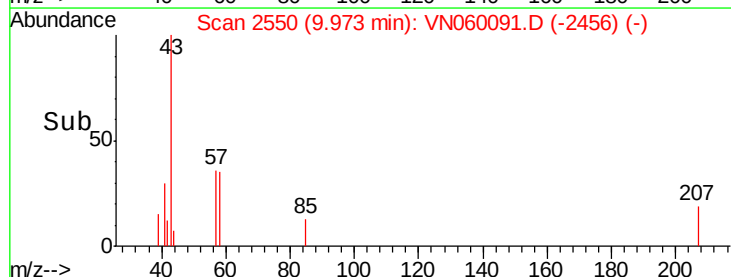
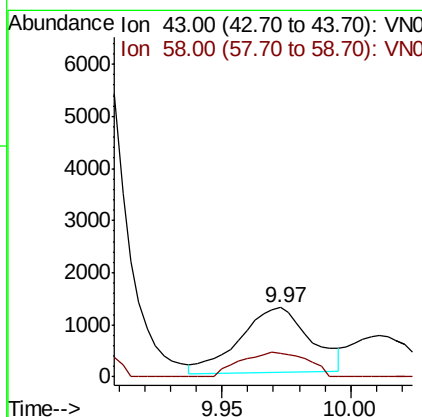
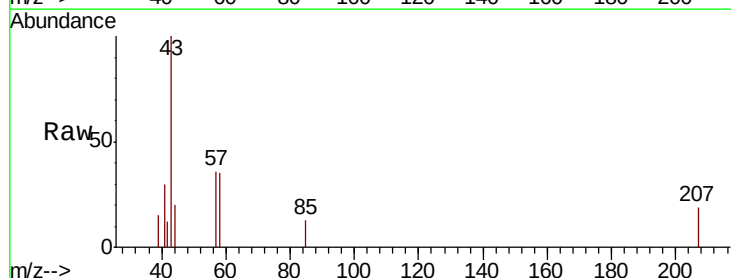
Instrument :
MSVOA_N
ClientSampled :

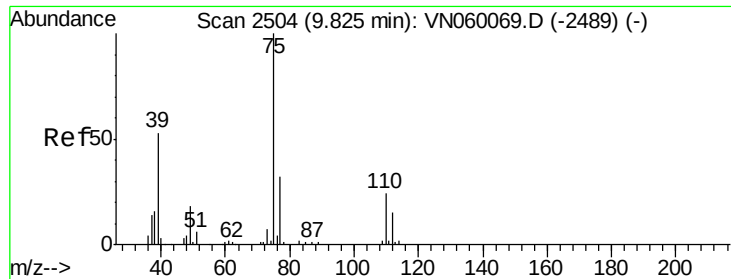
Tot Ion: 98 Resp: 373804
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.920 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion: 43 Resp: 2361
Ion Ratio Lower Upper
43 100
58 36.3 31.8 47.8





#54

cis-1,3-Dichloropropene

Concen: 4.256 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

ClientSampled :

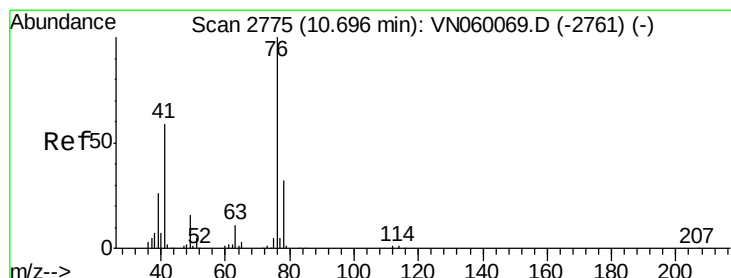
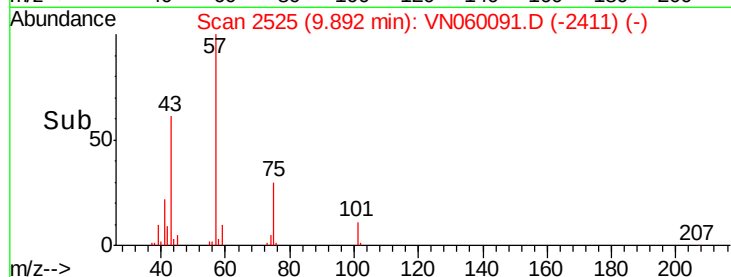
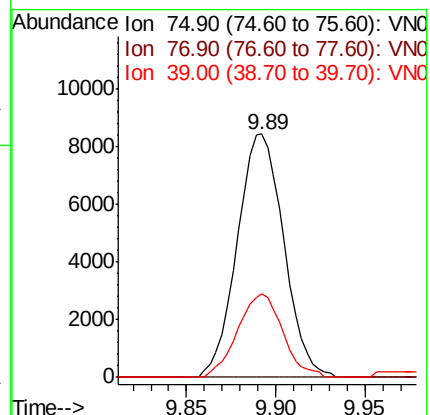
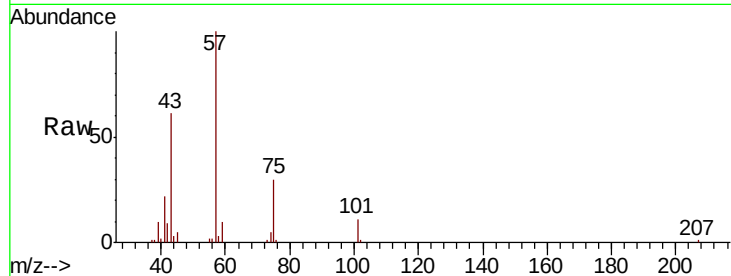
Tot Ion: 75 Resp: 15313

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 34.3 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.658 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060091.D

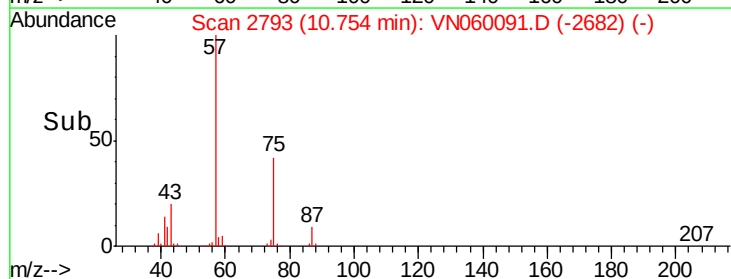
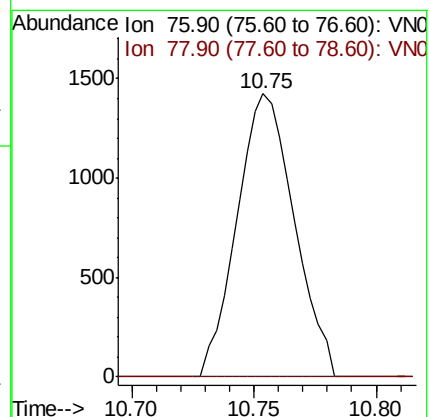
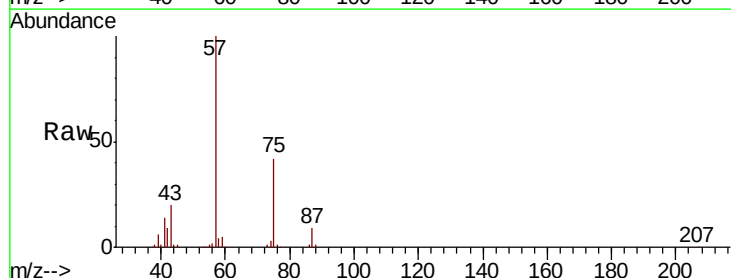
Acq: 13 Feb 2020 13:51

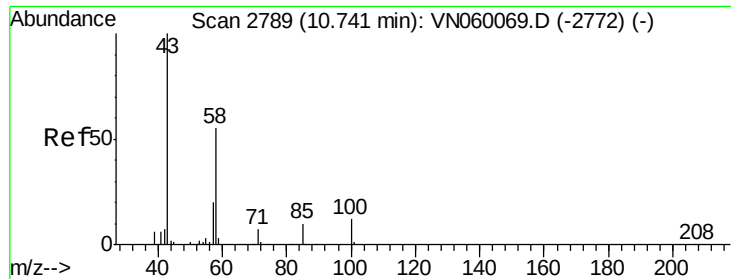
Tgt Ion: 76 Resp: 2313

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#

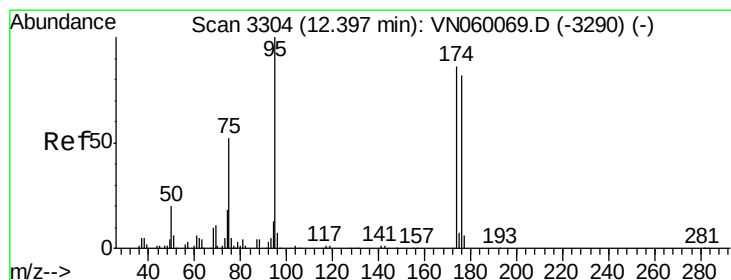
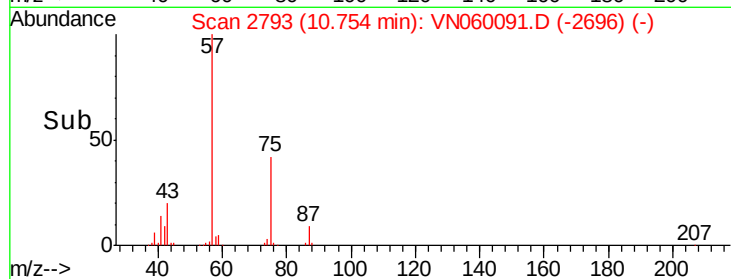
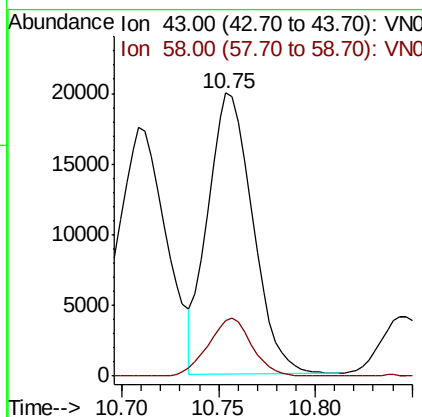
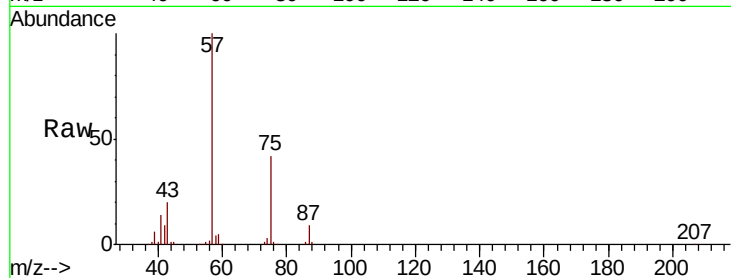




#59
2-Hexanone
Concen: 16.213 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

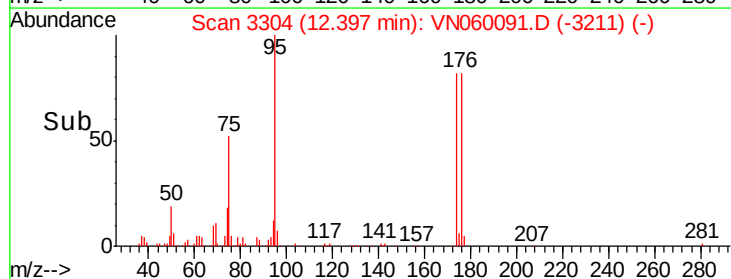
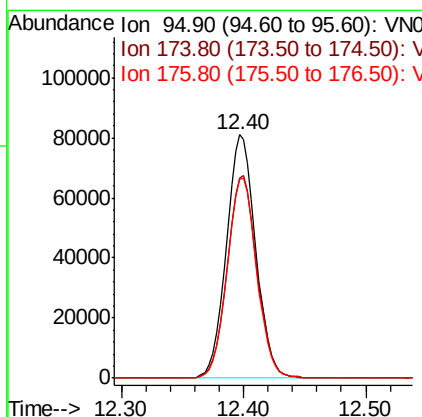
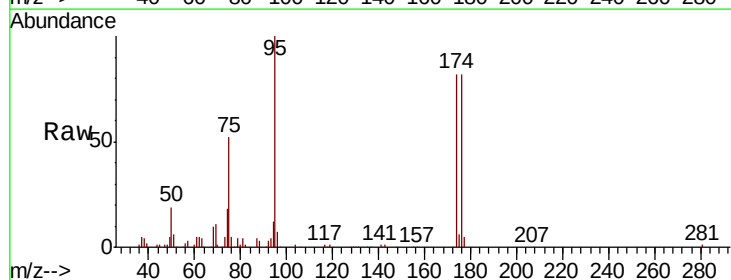
Instrument :
MSVOA_N
ClientSampled :

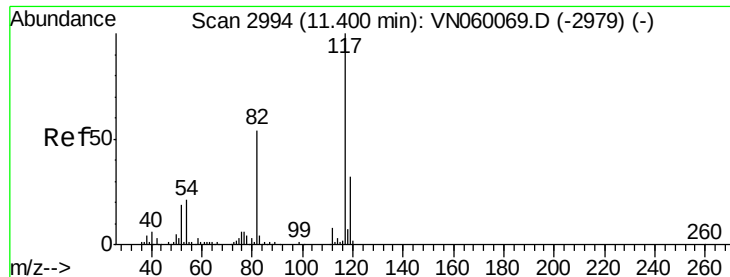
Tot Ion: 43 Resp: 32129
Ion Ratio Lower Upper
43 100
58 19.9 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.356 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion: 95 Resp: 135970
Ion Ratio Lower Upper
95 100
174 84.4 0.0 169.8
176 82.9 0.0 164.8

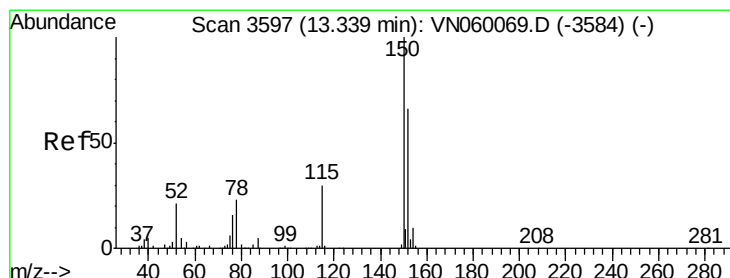
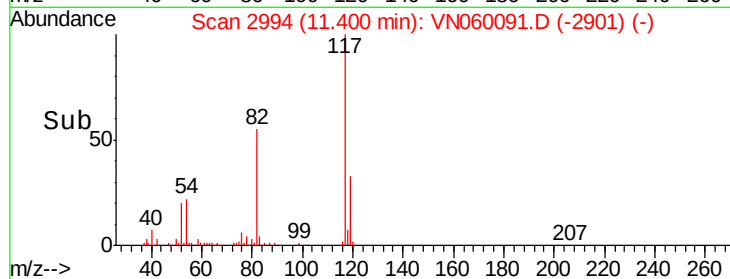
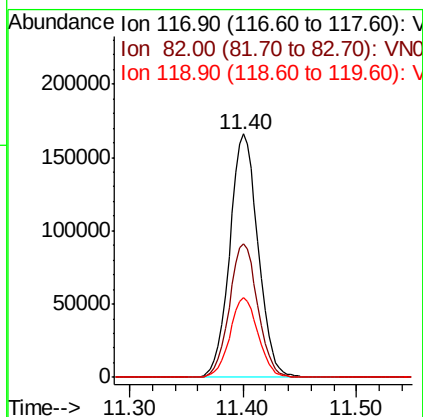
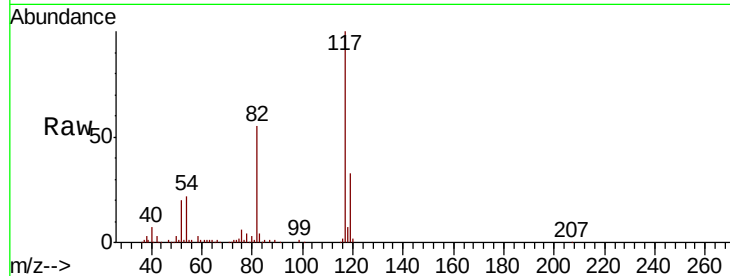




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

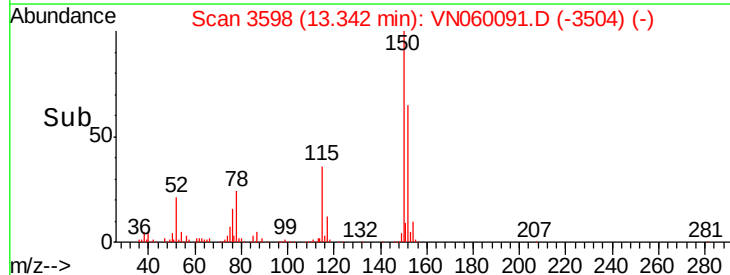
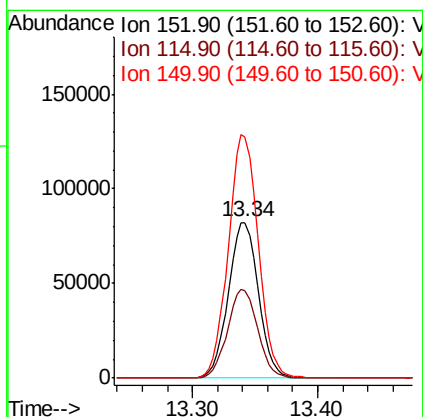
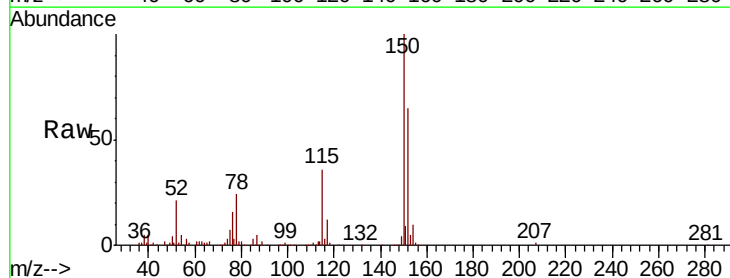
Instrument :
MSVOA_N
ClientSampled :

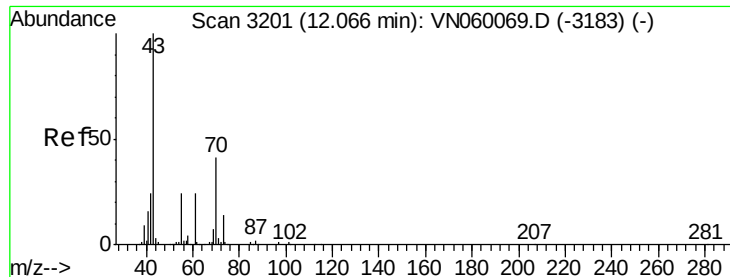
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	43.4	65.0
119	32.6	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.9	86.8
150	156.0	0.0	342.4

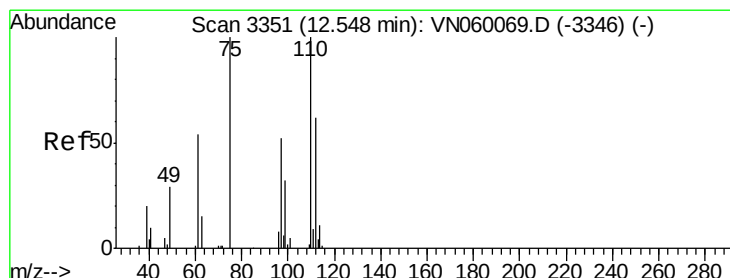
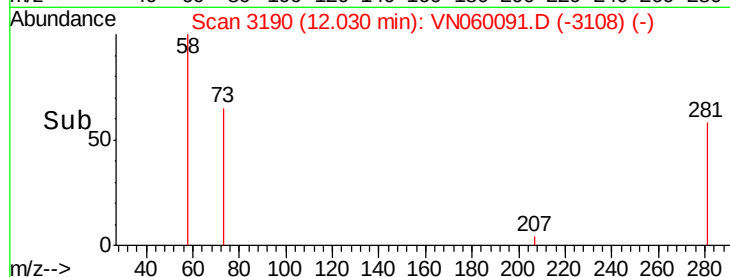
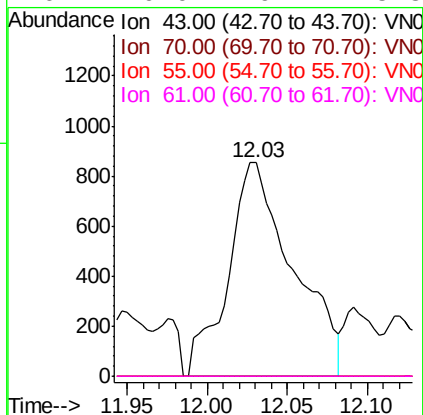
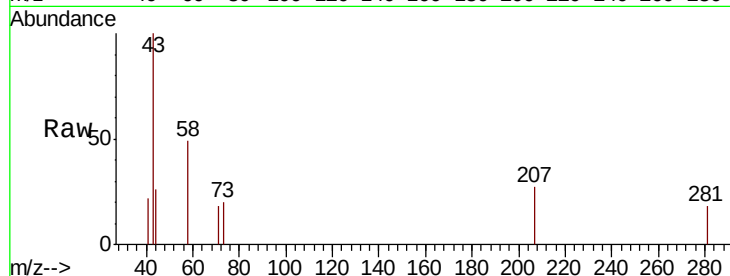




#74
N-amvl acetate
Concen: 0.648 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.04 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

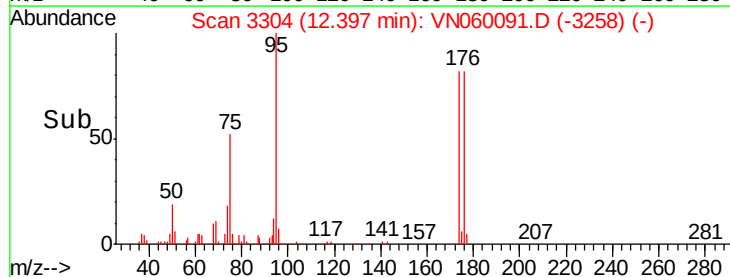
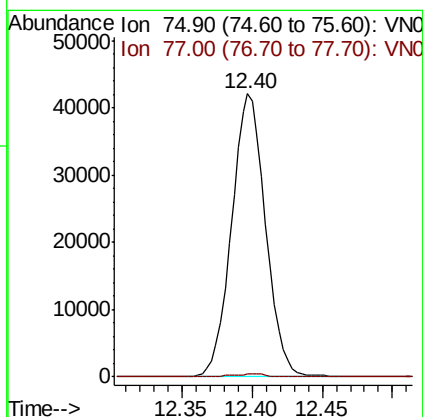
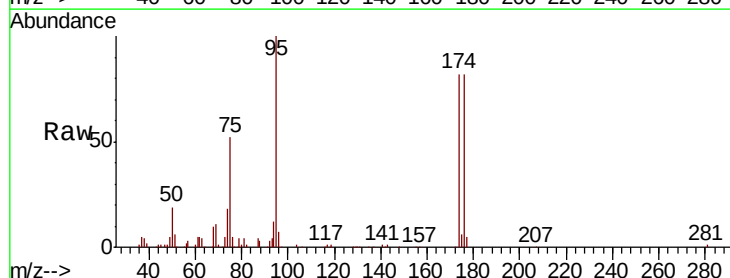
Instrument :
MSVOA_N
ClientSampleId :

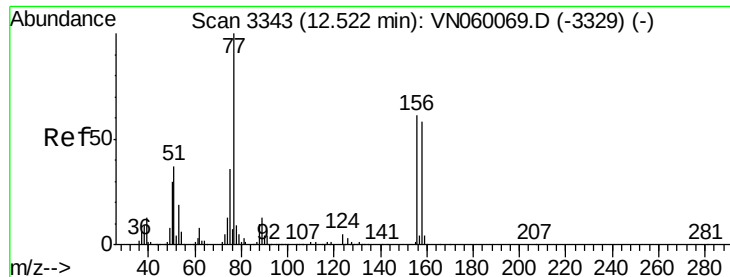
Tot Ion:	43	Resp:	2386
Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.0#
55	0.0	18.8	28.2#
61	0.0	19.2	28.8#



#76
1,2,3-Trichloropropane
Concen: 26.998 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060091.D
Acq: 13 Feb 2020 13:51

Tgt Ion:	75	Resp:	70642
Ion	Ratio	Lower	Upper
75	100		
77	0.9	0.0	0.0#





#77

Bromobenzene

Concen: 0.363 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

ClientSampled :

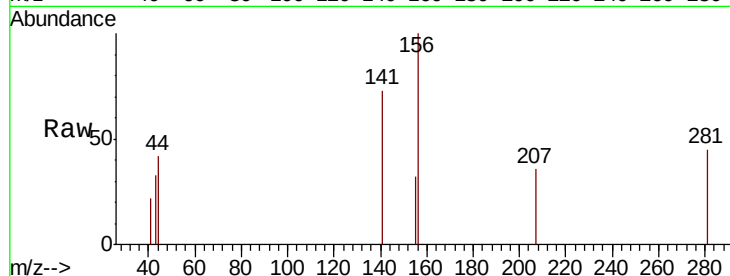
Tot Ion:156 Resp: 920

Ion Ratio Lower Upper

156 100

77 0.0 98.7 296.1#

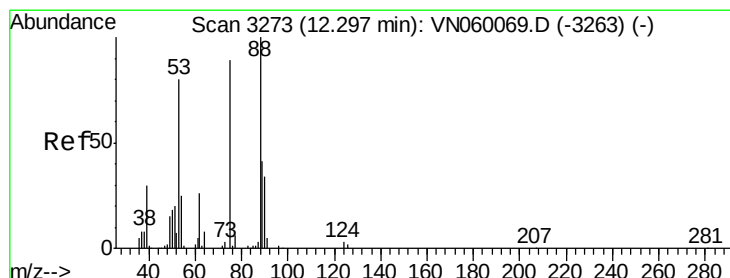
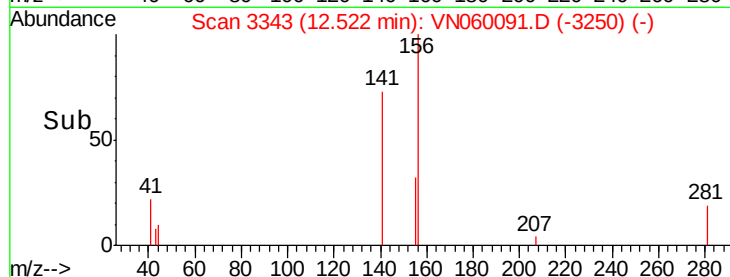
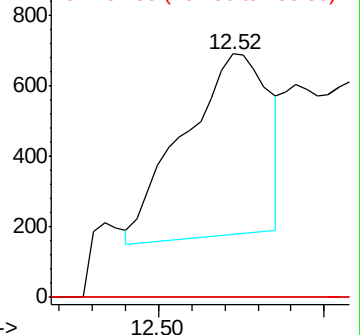
158 0.0 48.1 144.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.104 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

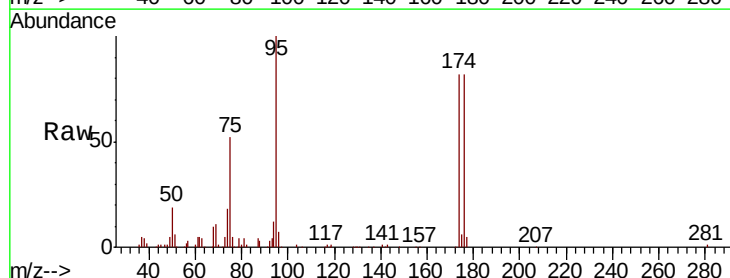
Tgt Ion: 75 Resp: 70642

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

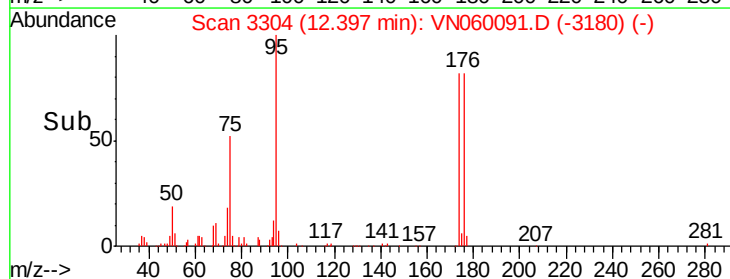
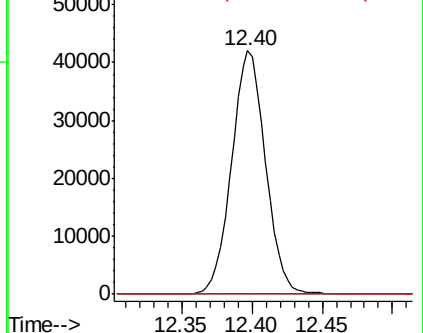
89 0.0 37.0 55.4#

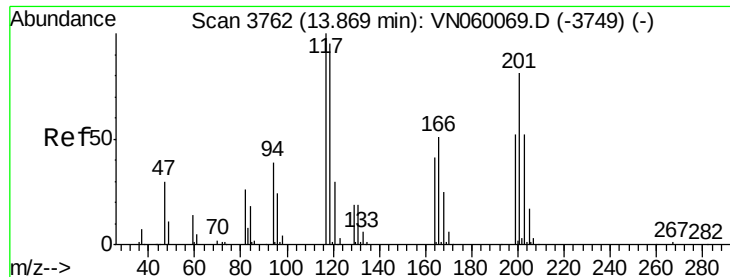


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: 0.899 ug/l

RT: 13.99 min Scan# 3800

Delta R.T. 0.12 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

Instrument :

MSVOA_N

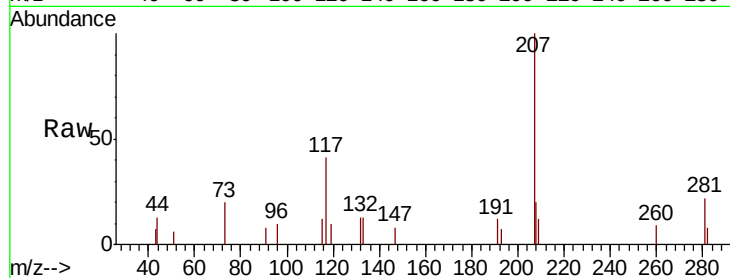
ClientSampleId :

Tot Ion:117 Resp: 1513

Ion Ratio Lower Upper

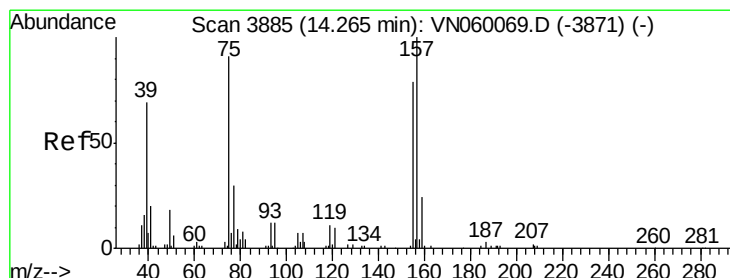
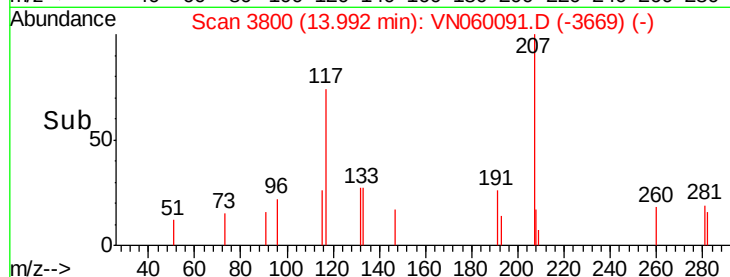
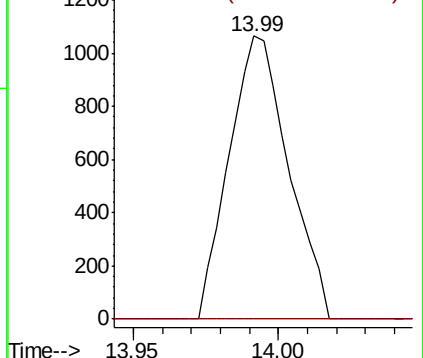
117 100

201 0.0 41.7 125.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.24 min Scan# 3878

Delta R.T. -0.02 min

Lab File: VN060091.D

Acq: 13 Feb 2020 13:51

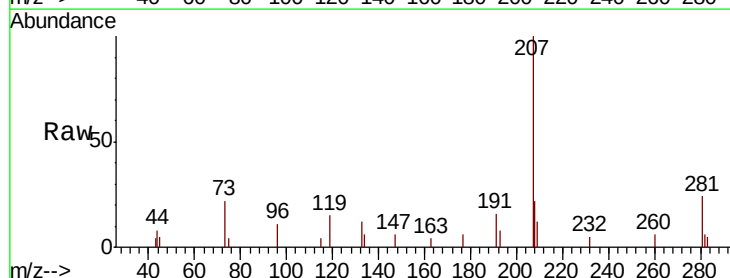
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

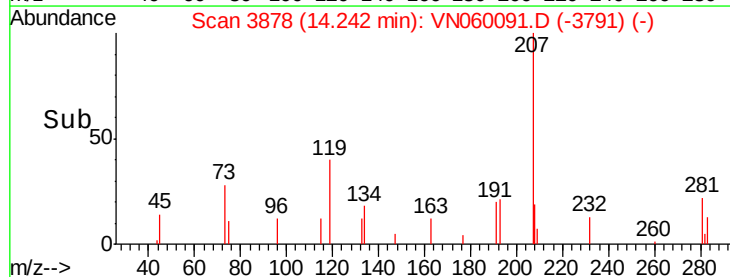
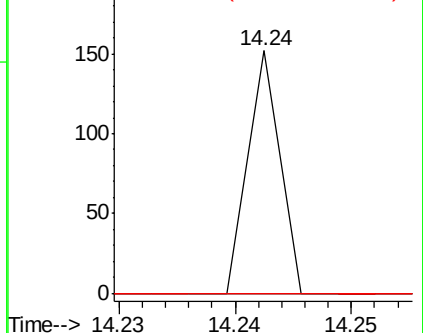
157 0.0 54.9 164.5#

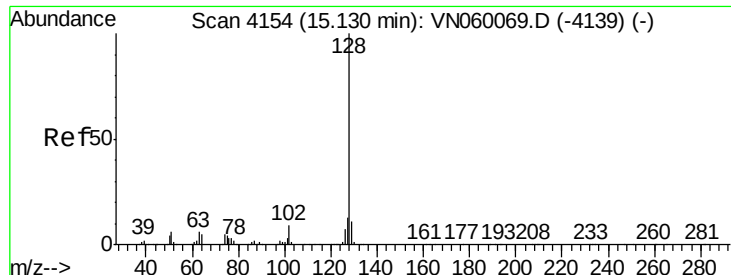


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

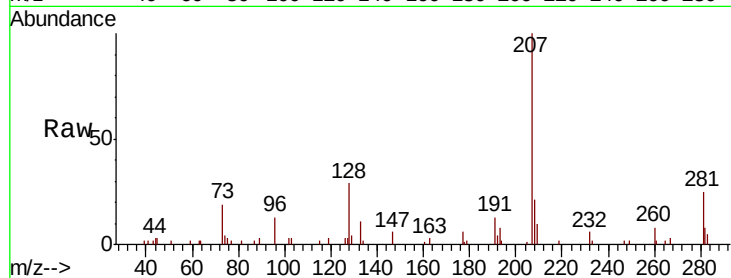




#95
 Naphthalene
 Concen: 0.825 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN060091.D
 Acq: 13 Feb 2020 13:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.3	15.5
129	10.0	8.6	13.0



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

