

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021020\
 Data File : VN060041.D
 Acq On : 10 Feb 2020 13:17
 Operator : JC/MD
 Sample : L1438-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

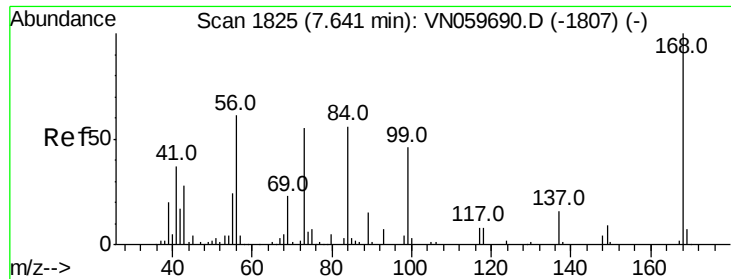
Quant Time: Feb 11 07:08:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	204983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	299151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131520	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	118008	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
35) Dibromofluoromethane	7.57	113	97087	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	10.08	98	388718	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.40	95	137319	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	176	0.459	ug/l #	72
16) Acetone	3.78	43	41238	44.901	ug/l	99
18) Methyl Acetate	4.30	43	946	0.356	ug/l #	54
20) Methylene Chloride	4.52	84	5280	1.303	ug/l	90
25) 2-Butanone	6.81	43	7145	5.543	ug/l #	86
31) Cyclohexane	7.64	56	4056	1.204	ug/l #	10
36) 1,1-Dichloropropene	7.64	75	14457	5.167	ug/l #	51
37) Ethyl Acetate	6.81	43	7145	2.723	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19762	6.493	ug/l #	16
43) Isopropyl Acetate	8.14	43	46028	10.197	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	728	0.353	ug/l #	44
48) Methyl methacrylate	9.16	41	3048	1.510	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3148	1.206	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	21346	6.190	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2747	0.829	ug/l #	42
59) 2-Hexanone	10.75	43	38543	20.050	ug/l #	57
74) N-amyl acetate	12.03	43	2293	0.613	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	70897	32.032	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	70897	68.788	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.35	75	60	Below Cal	#	6

(#) = 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: VN060041.D

Acq: 10 Feb 2020 13:17

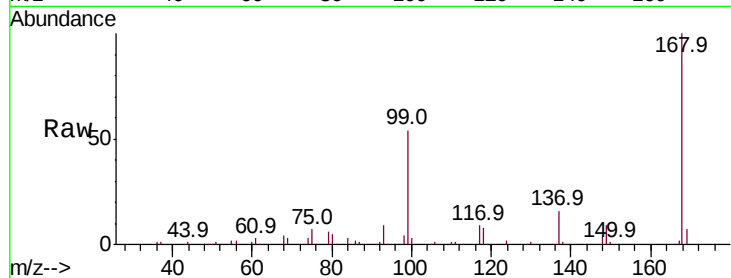
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 204983

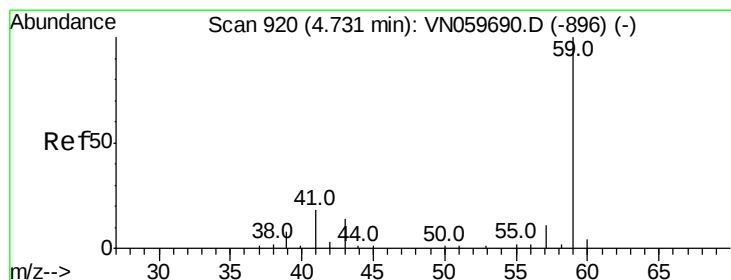
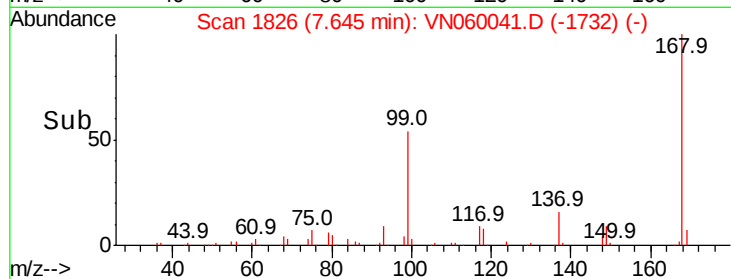
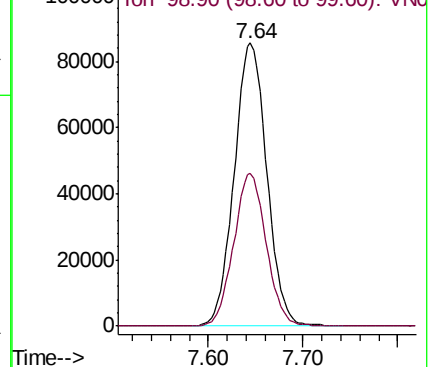
Ion Ratio Lower Upper

168 100

99 53.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN060041.D (-1732) (-)



#11

Tert butyl alcohol

Concen: 0.459 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN060041.D

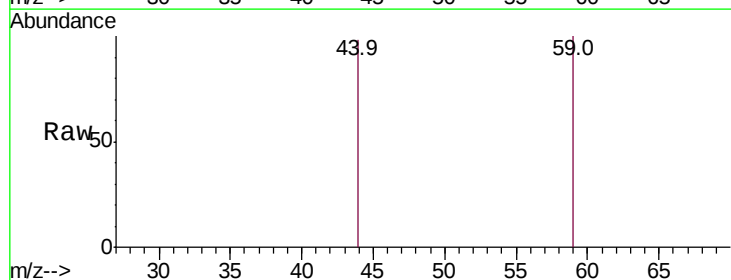
Acq: 10 Feb 2020 13:17

Tgt Ion: 59 Resp: 176

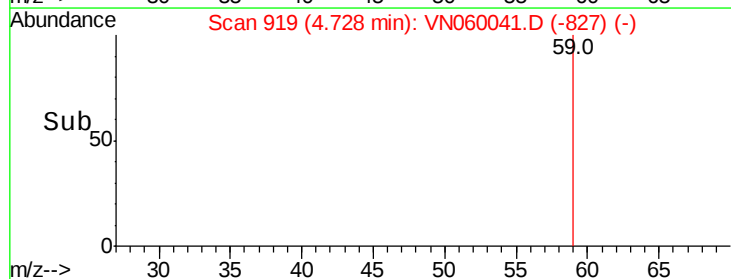
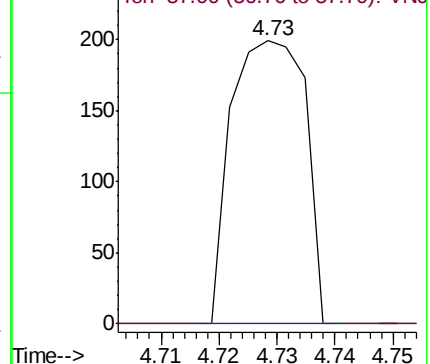
Ion Ratio Lower Upper

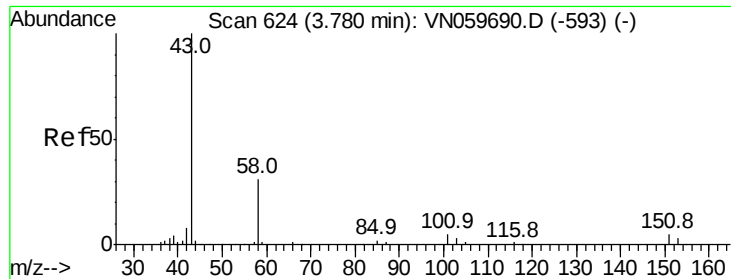
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN060041.D (-827) (-)





#16

Acetone

Concen: 44.901 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Instrument :

MSVOA_N

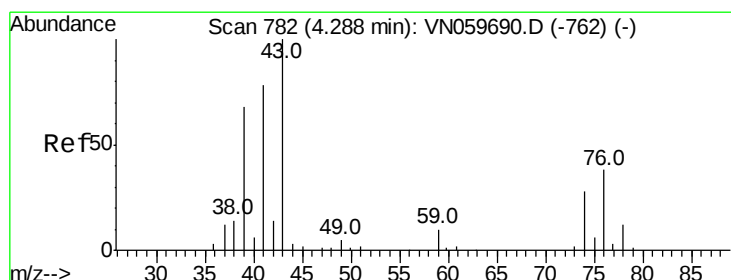
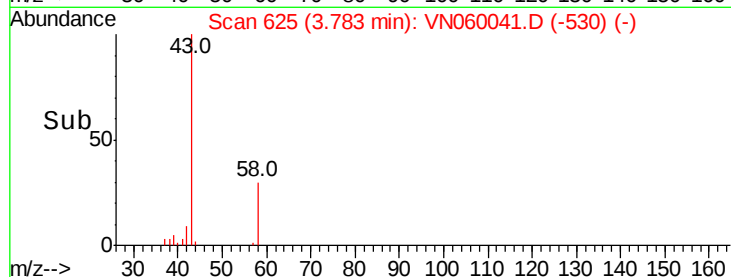
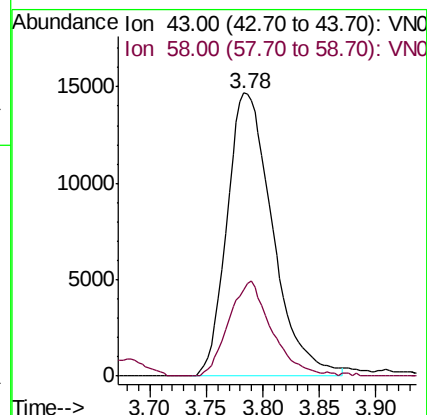
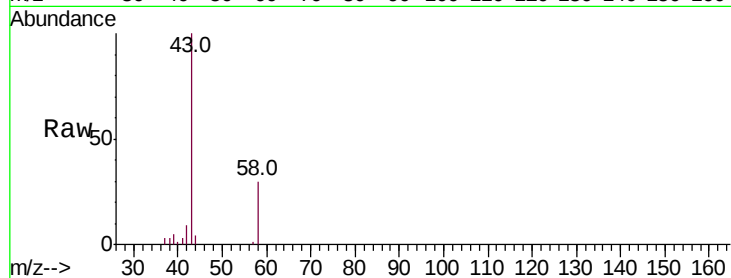
ClientSampleId :

Tot Ion: 43 Resp: 41238

Ion Ratio Lower Upper

43 100

58 30.3 23.6 35.4



#18

Methyl Acetate

Concen: 0.356 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060041.D

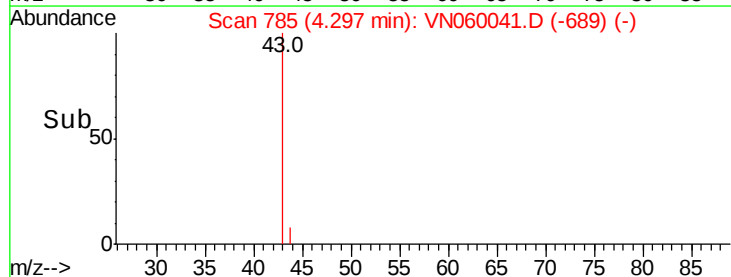
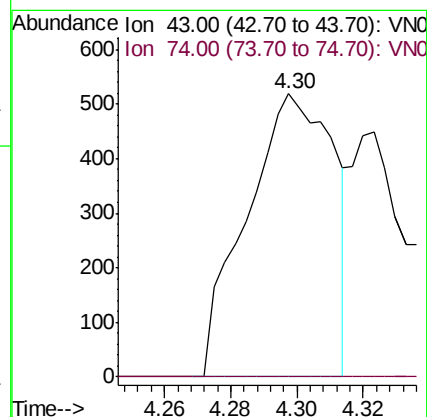
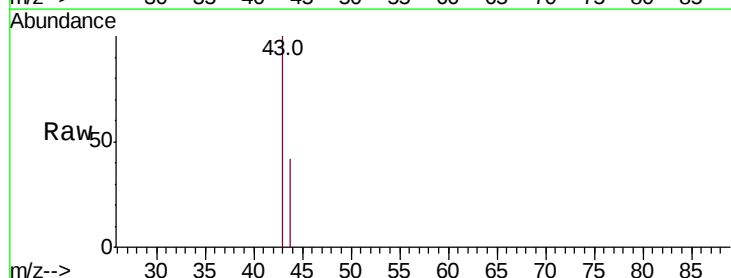
Acq: 10 Feb 2020 13:17

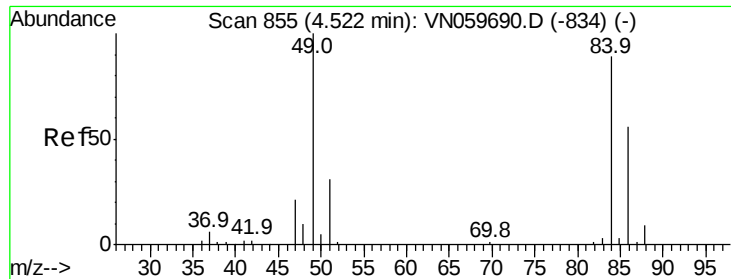
Tgt Ion: 43 Resp: 946

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

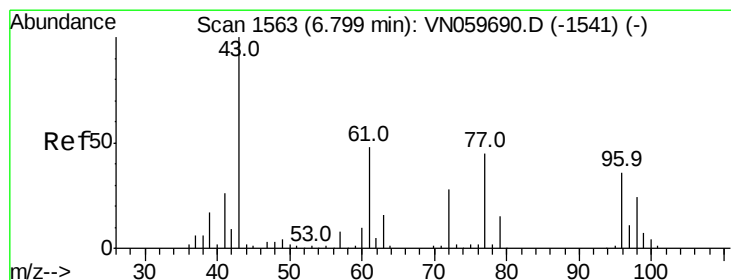
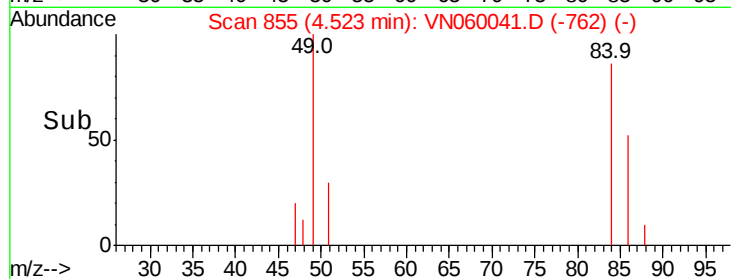
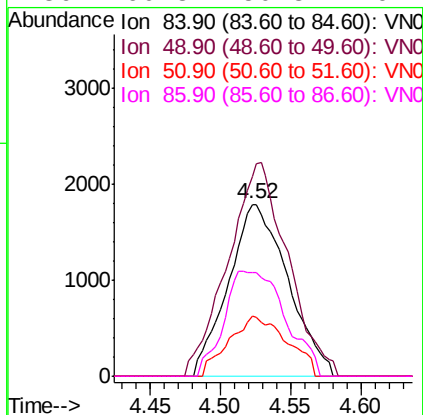
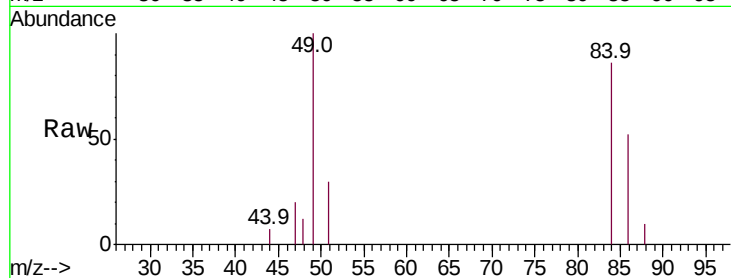




#20
Methvlene Chloride
Concen: 1.303 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

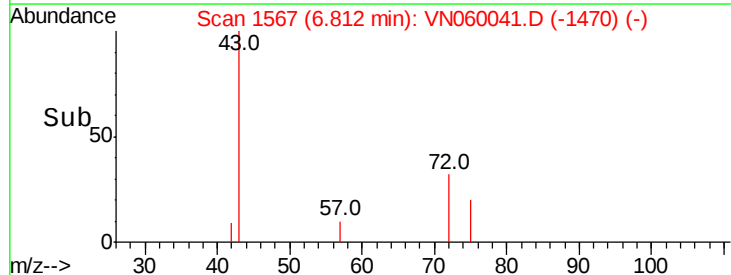
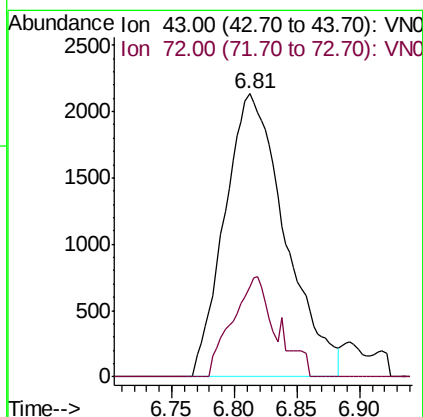
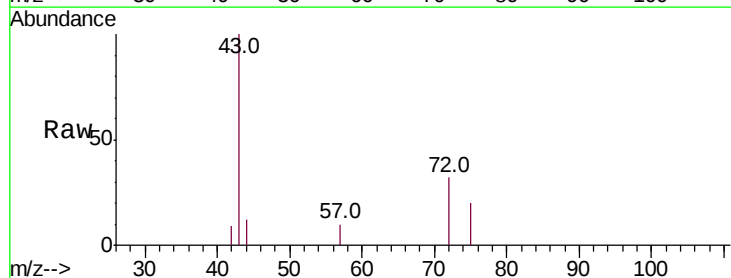
Instrument :
MSVOA_N
ClientSampleId :

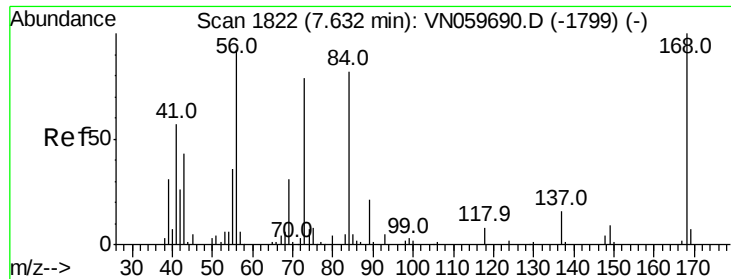
Tot Ion: 84 Resp: 5280
Ion Ratio Lower Upper
84 100
49 116.6 106.6 160.0
51 35.1 31.9 47.9
86 60.8 50.8 76.2



#25
2-Butanone
Concen: 5.543 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Tgt Ion: 43 Resp: 7145
Ion Ratio Lower Upper
43 100
72 31.7 19.9 29.9#

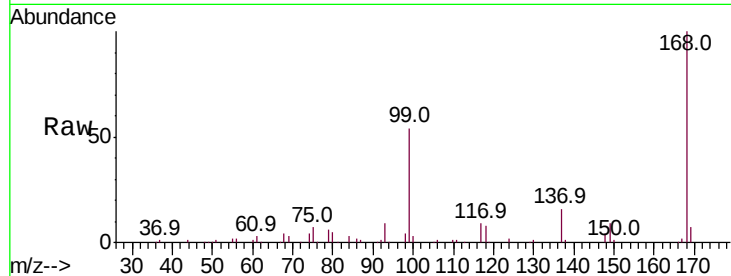




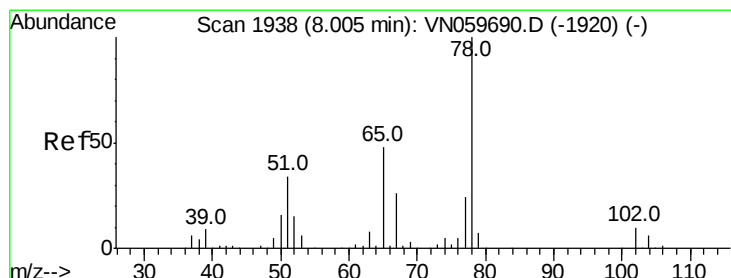
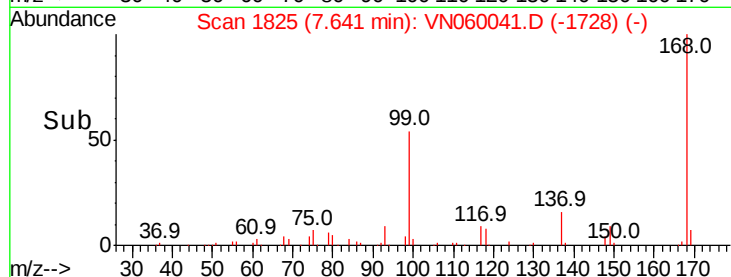
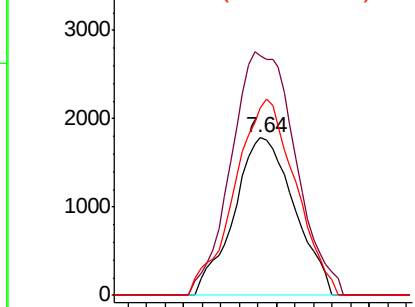
#31
Cyclohexane
Concen: 1.204 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4056
Ion Ratio Lower Upper
56 100
69 152.2 26.5 39.7#
84 118.9 65.3 97.9#

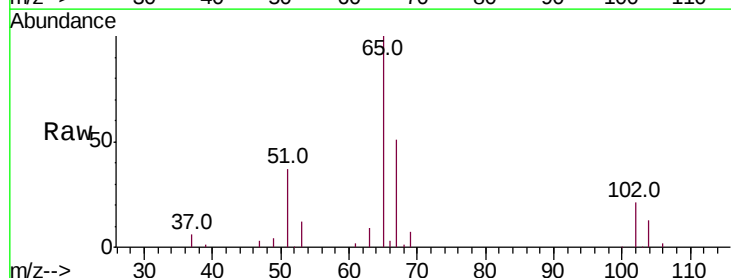


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

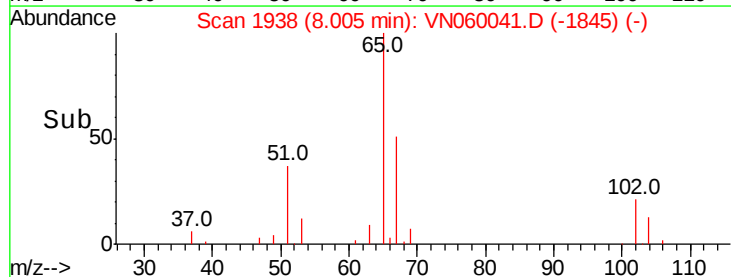
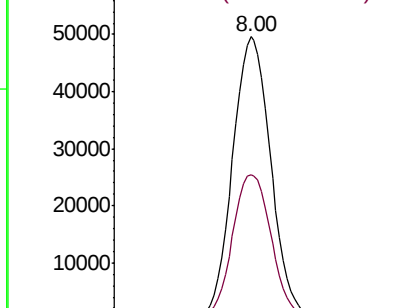


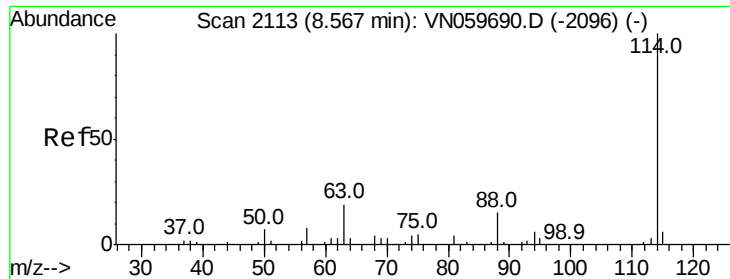
#33
1,2-Dichloroethane-d4
Concen: 51.840 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Tgt Ion: 65 Resp: 118008
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.0



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

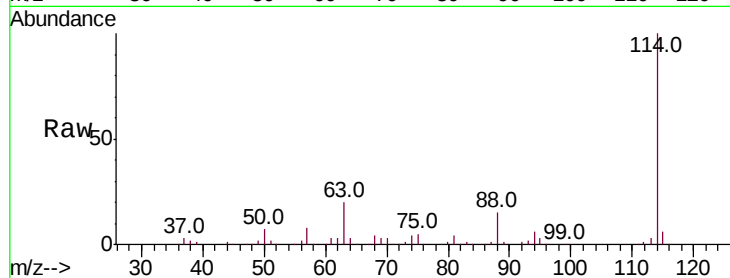




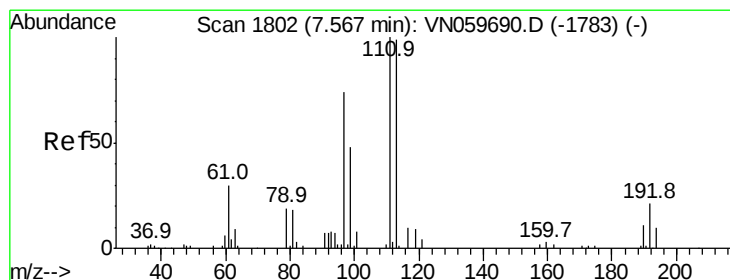
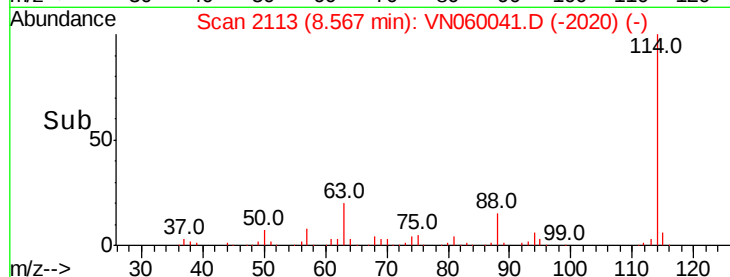
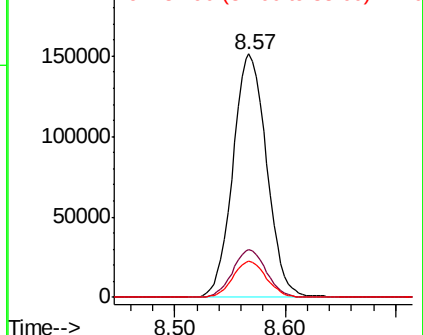
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	43.6
88	14.7	0.0	31.4

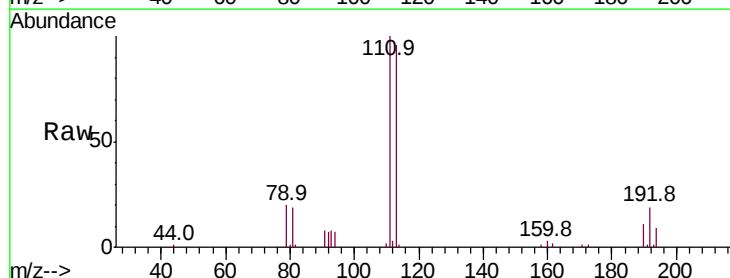


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

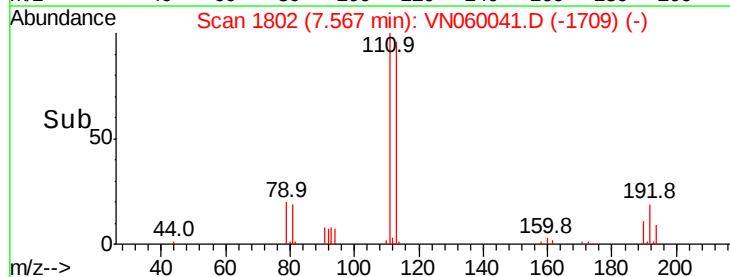
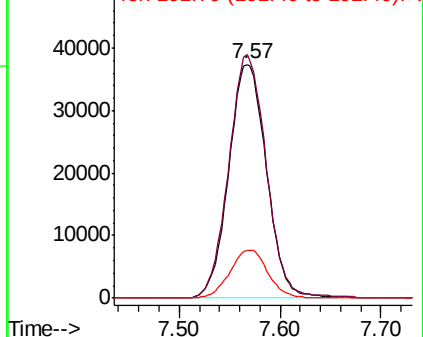


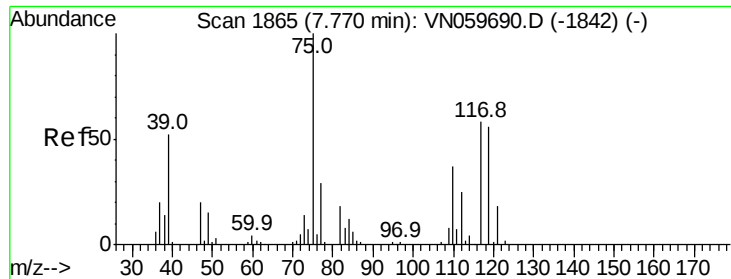
#35
 Dibromofluoromethane
 Concen: 50.669 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.5	125.3
192	20.5	15.4	23.2



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

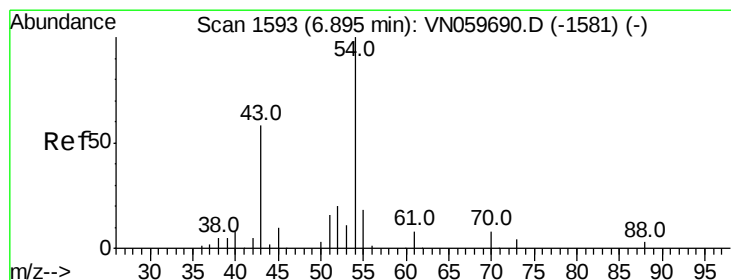
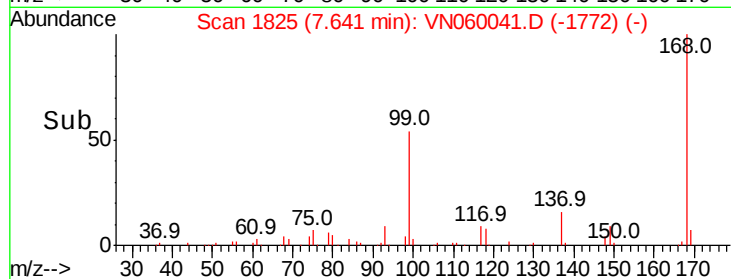
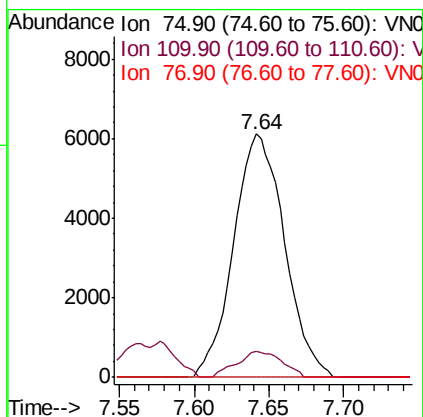
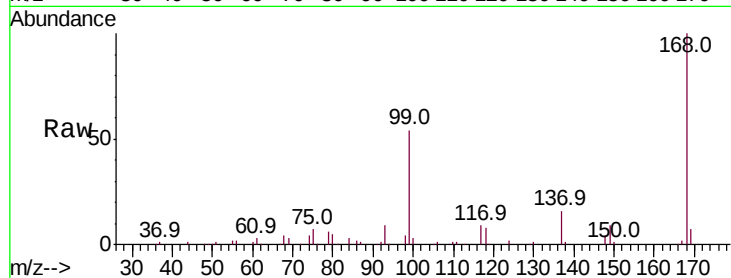




#36
 1,1-Dichloropropene
 Concen: 5.167 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

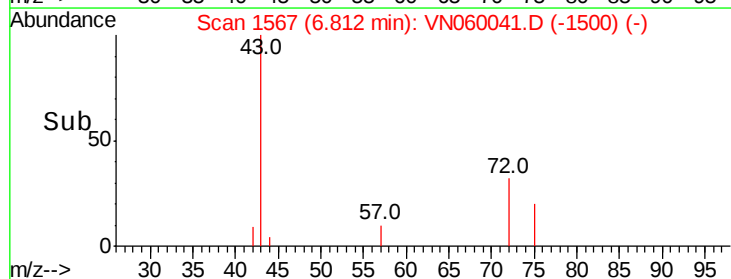
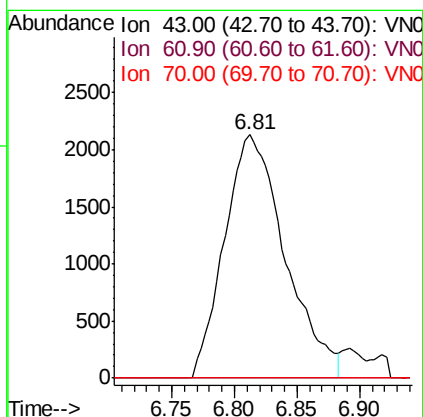
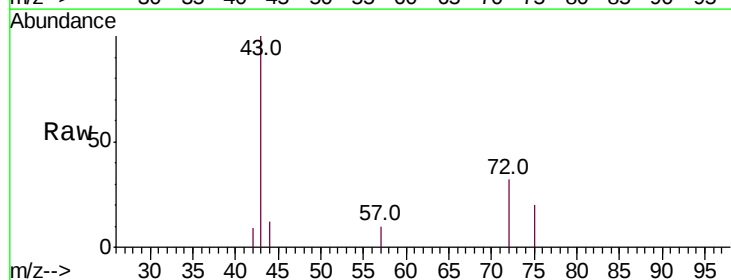
Instrument :
 MSVOA_N
 ClientSampled :

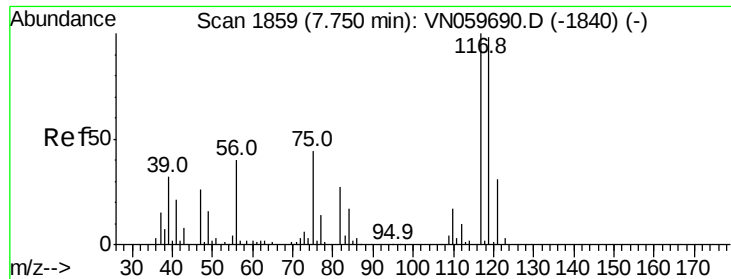
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.6	49.7#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 2.723 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.08 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	7.7	11.5#





#38

Carbon Tetrachloride

Concen: 6.493 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

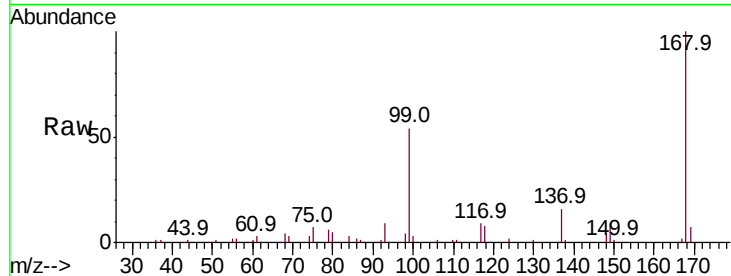
Tot Ion:117 Resp: 19762

Ion Ratio Lower Upper

117 100

119 4.9 76.5 114.7#

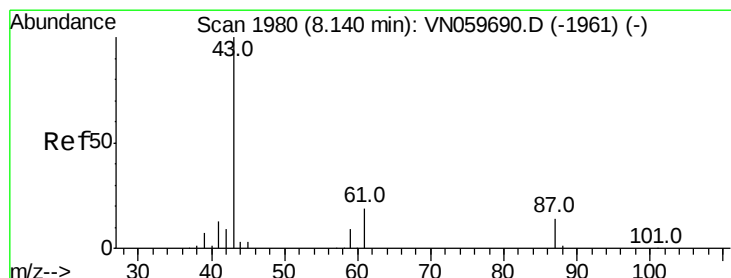
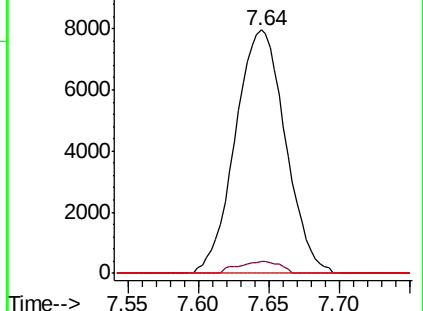
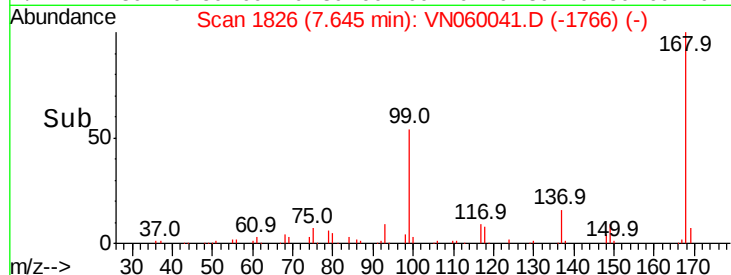
121 0.0 25.1 37.7#



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: 10.197 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

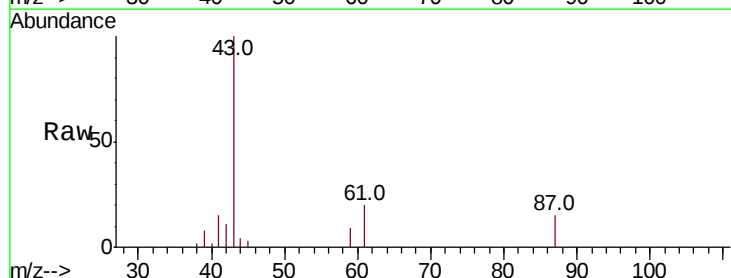
Tgt Ion: 43 Resp: 46028

Ion Ratio Lower Upper

43 100

61 19.5 20.2 30.2#

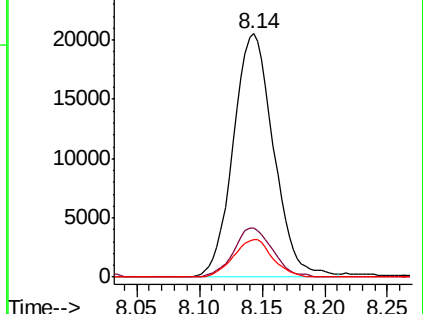
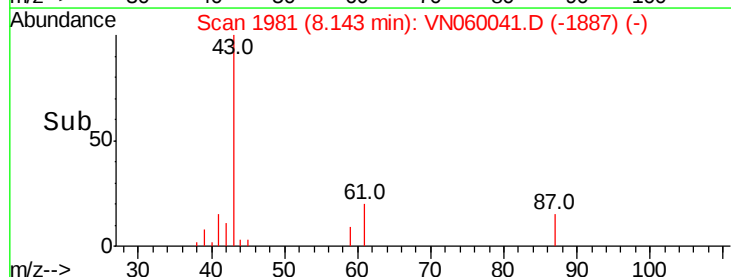
87 14.8 9.5 14.3#

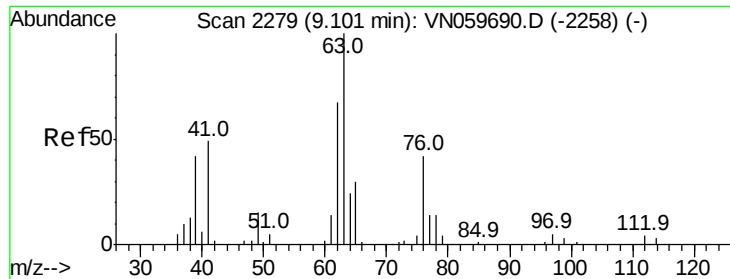


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

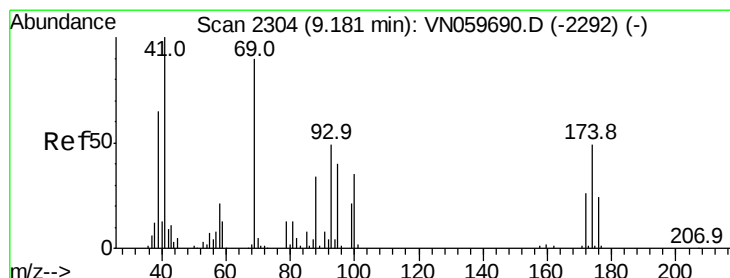
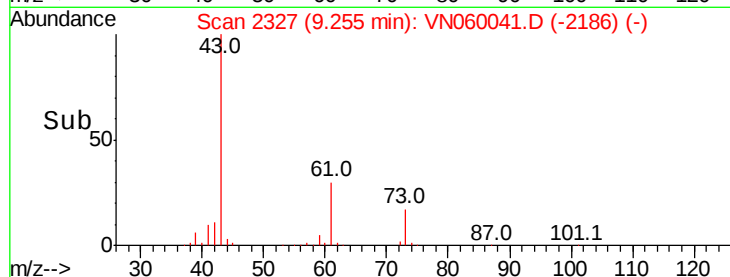
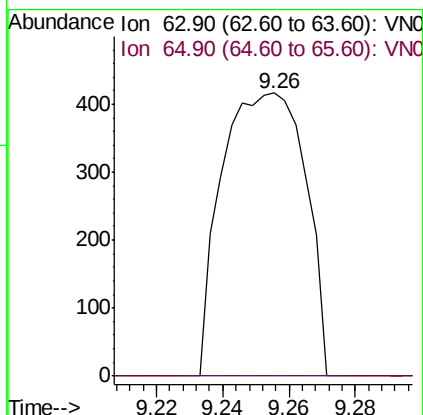
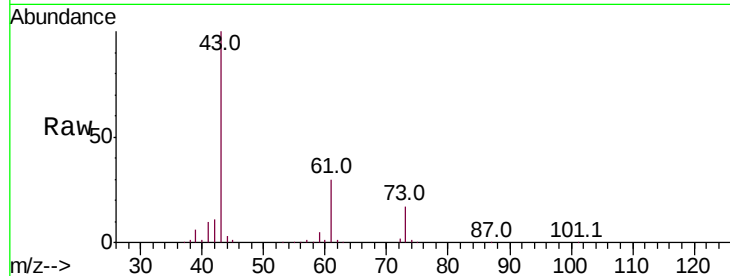




#45
 1,2-Dichloropropane
 Concen: 0.353 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

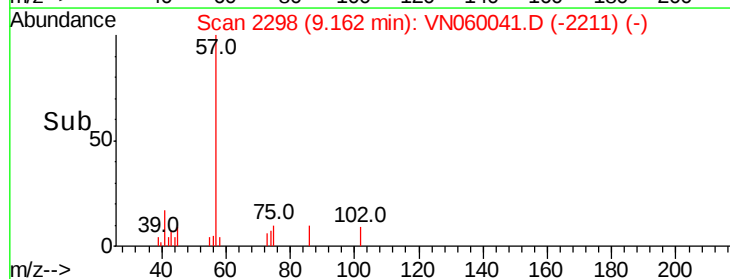
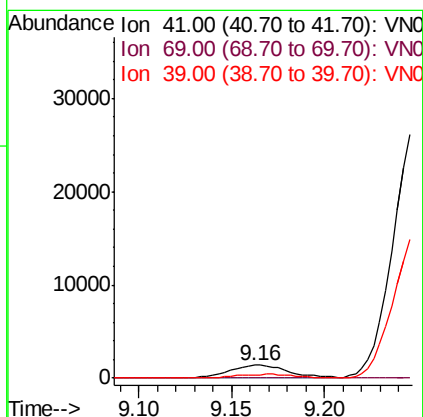
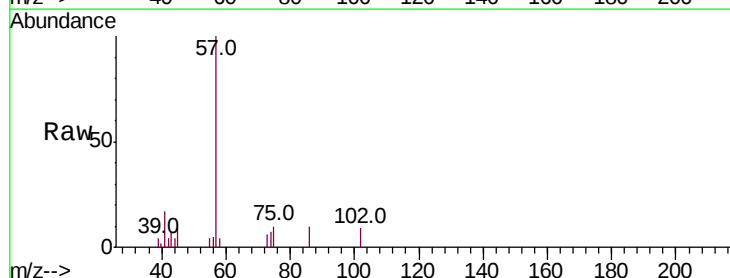
Instrument :
 MSVOA_N
 ClientSampleId :

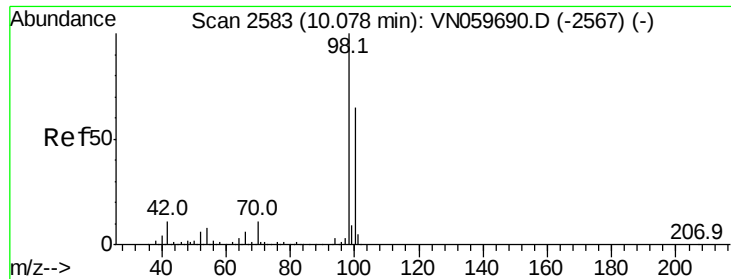
Tot Ion: 63 Resp: 728
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.510 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060041.D
 Acq: 10 Feb 2020 13:17

Tgt Ion: 41 Resp: 3048
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#

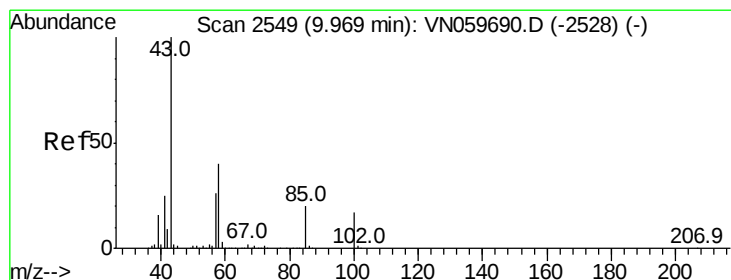
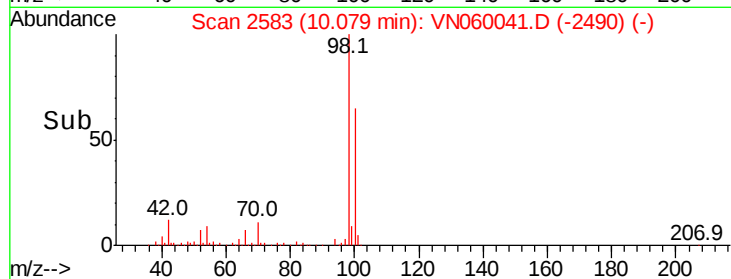
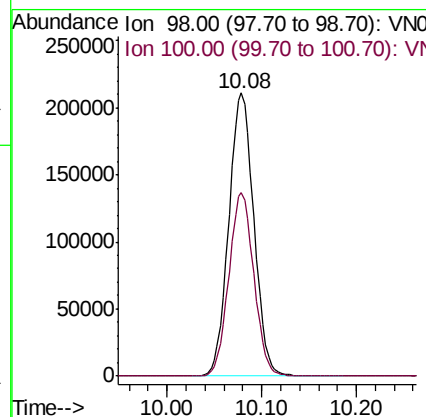
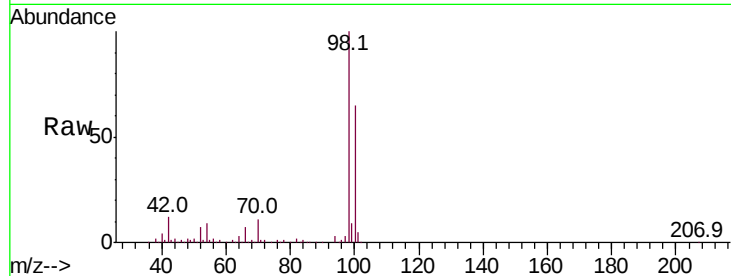




#50
Toluene-d8
Concen: 52.360 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

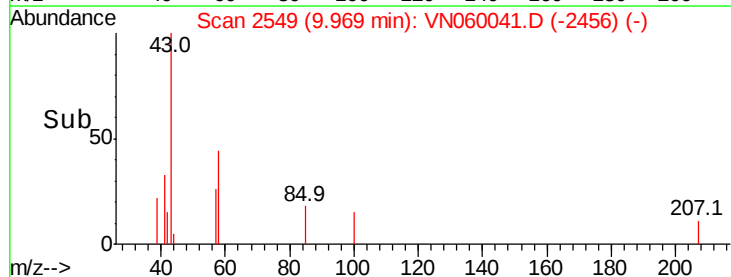
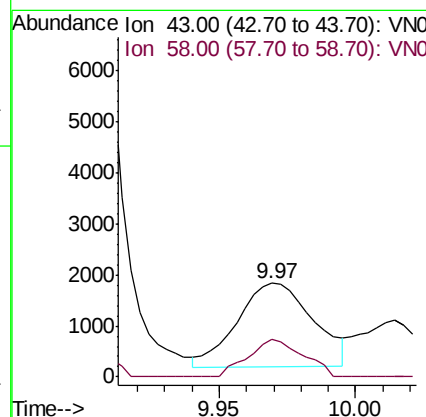
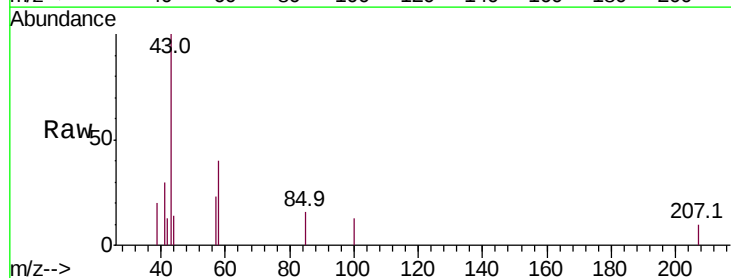
Instrument :
MSVOA_N
ClientSampleId :

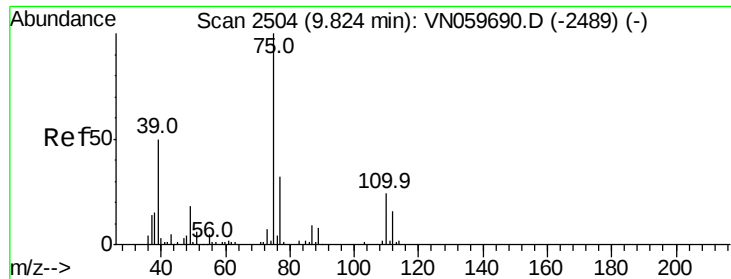
Tot Ion: 98 Resp: 388718
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.206 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Tgt Ion: 43 Resp: 3148
Ion Ratio Lower Upper
43 100
58 32.8 29.8 44.8





#54

cis-1,3-Dichloropropene

Concen: 6.190 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

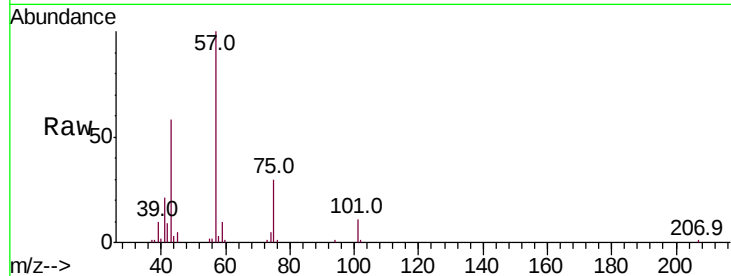
Tot Ion: 75 Resp: 21346

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

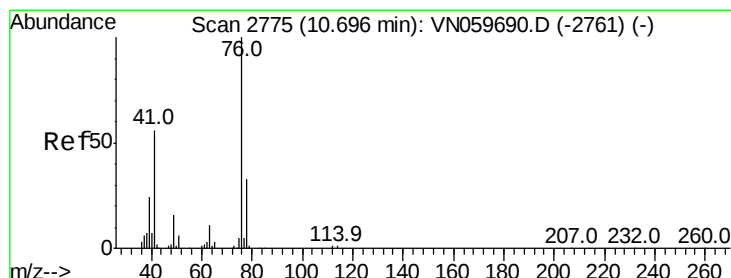
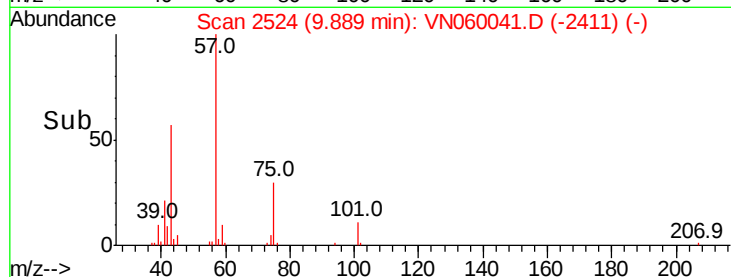
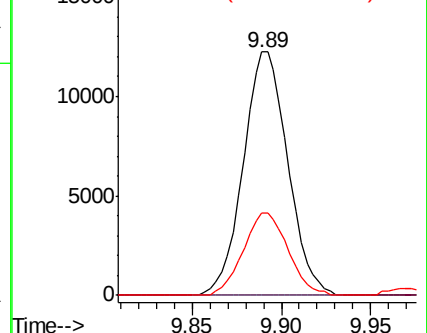
39 33.6 46.1 69.1#



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: 0.829 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060041.D

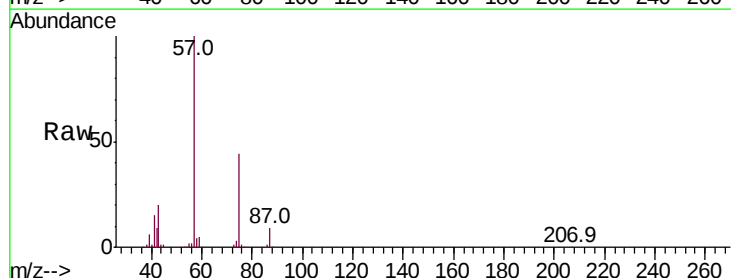
Acq: 10 Feb 2020 13:17

Tgt Ion: 76 Resp: 2747

Ion Ratio Lower Upper

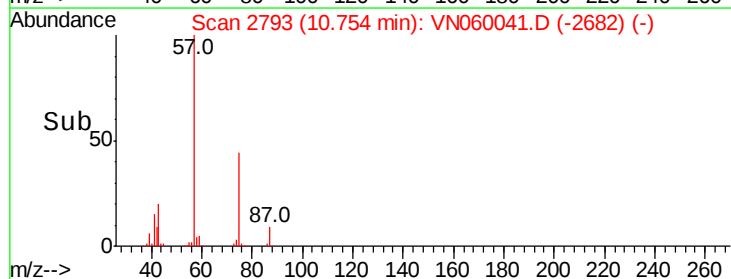
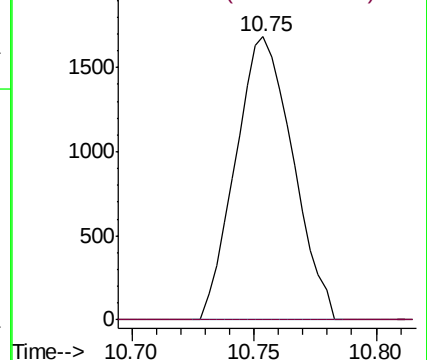
76 100

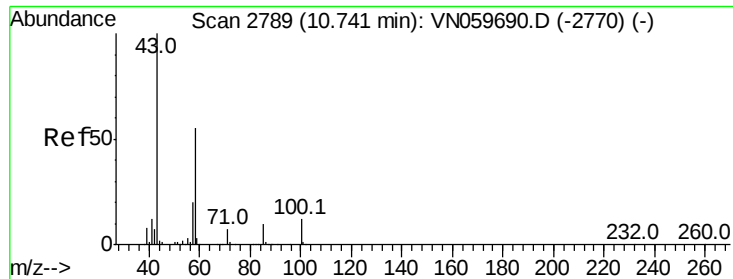
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

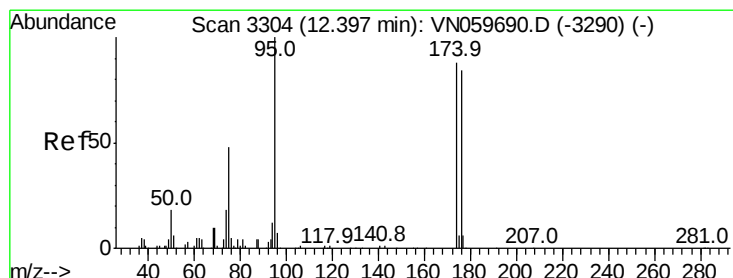
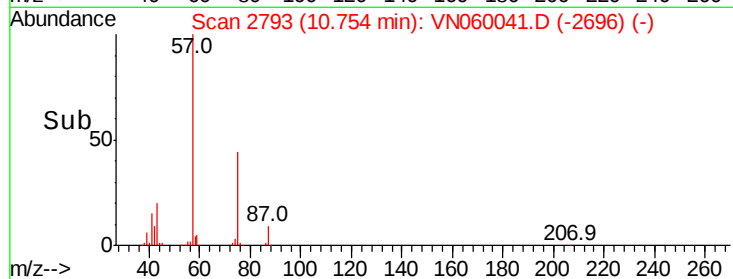
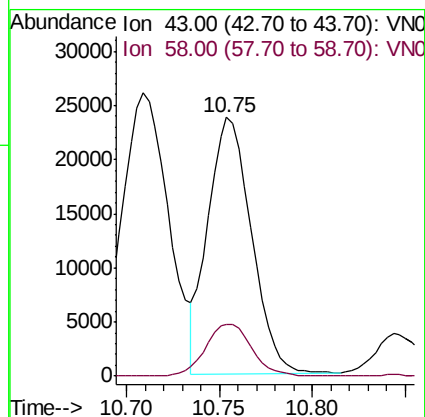
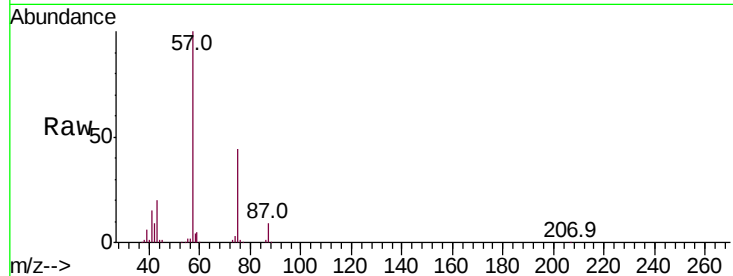




#59
2-Hexanone
Concen: 20.050 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

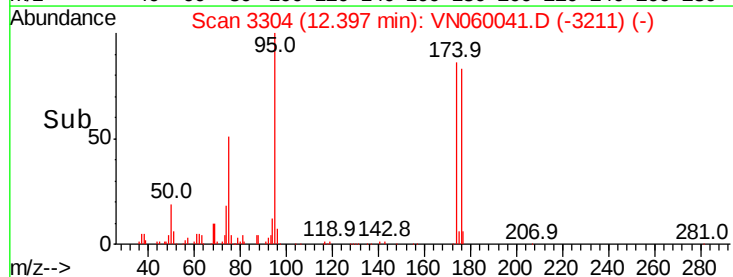
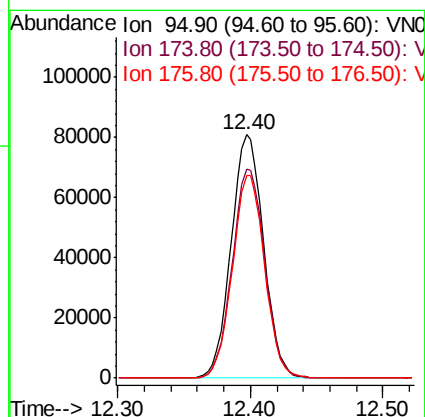
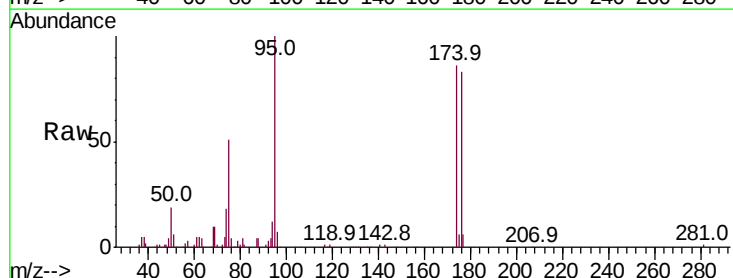
Instrument :
MSVOA_N
ClientSampleId :

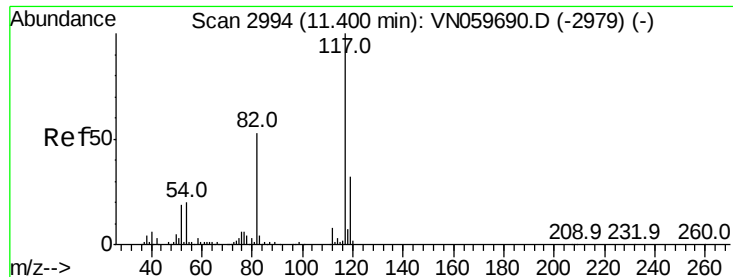
Tot Ion: 43 Resp: 38543
Ion Ratio Lower Upper
43 100
58 21.5 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 51.309 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Tgt Ion: 95 Resp: 137319
Ion Ratio Lower Upper
95 100
174 86.2 0.0 151.4
176 82.7 0.0 146.0

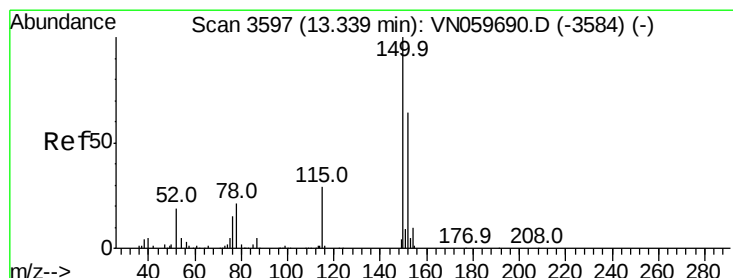
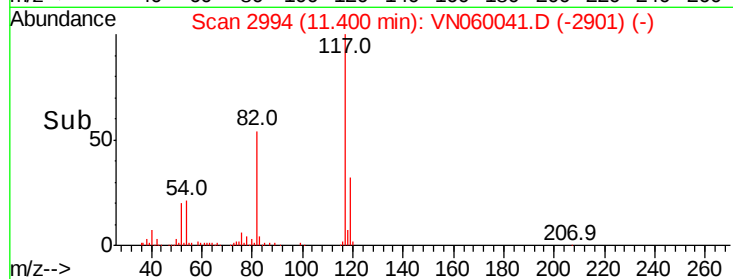
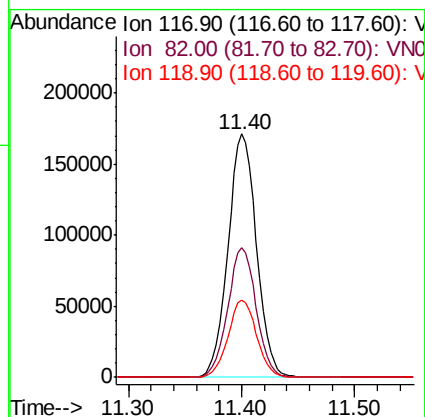
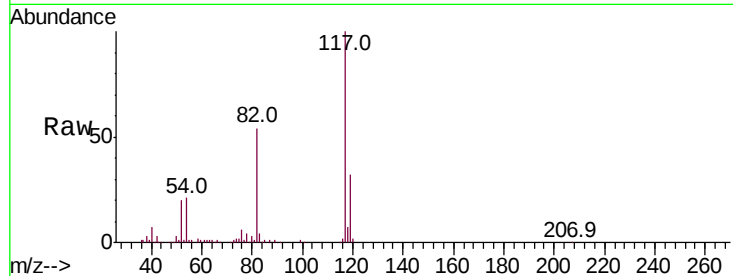




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

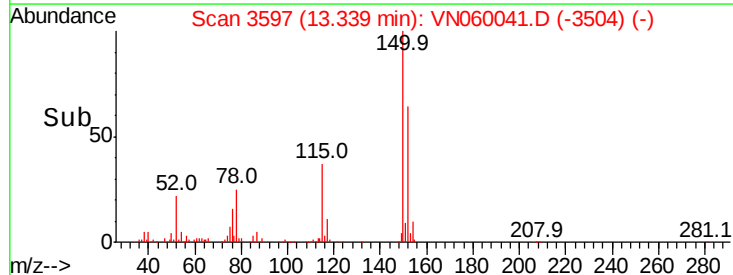
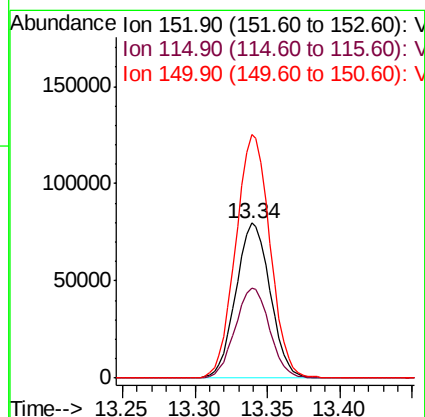
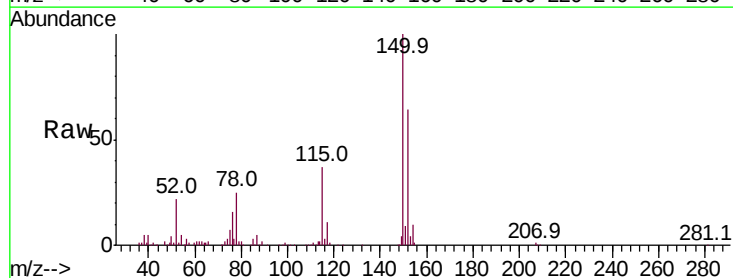
Instrument :
MSVOA_N
ClientSampleId :

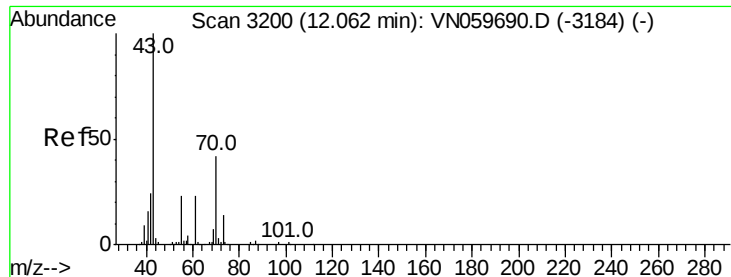
Tot Ion:117 Resp: 299151
Ion Ratio Lower Upper
117 100
82 53.5 45.9 68.9
119 31.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060041.D
Acq: 10 Feb 2020 13:17

Tgt Ion:152 Resp: 131520
Ion Ratio Lower Upper
152 100
115 58.3 30.3 90.9
150 157.4 0.0 345.2





#74

N-amvl acetate

Concen: 0.613 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2293

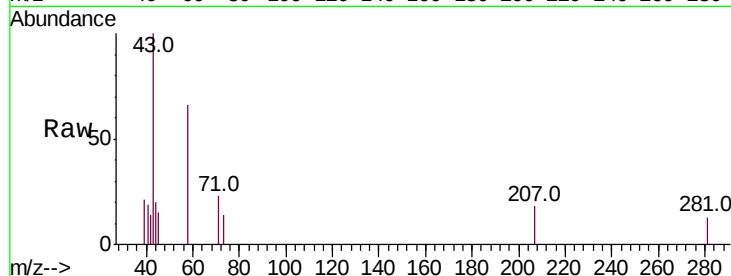
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 3.2 19.8 29.6#

61 0.0 18.3 27.5#

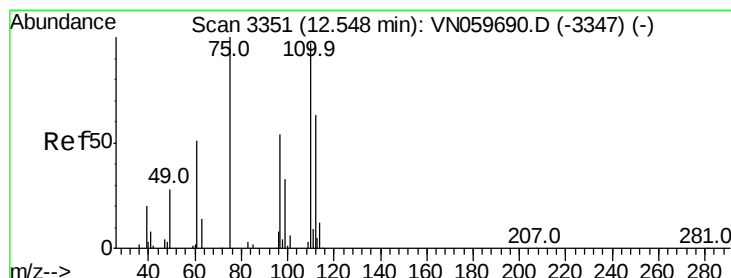
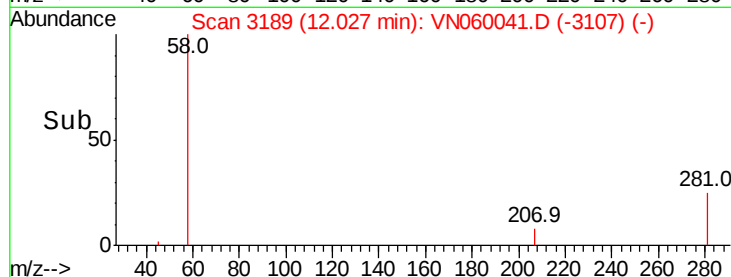
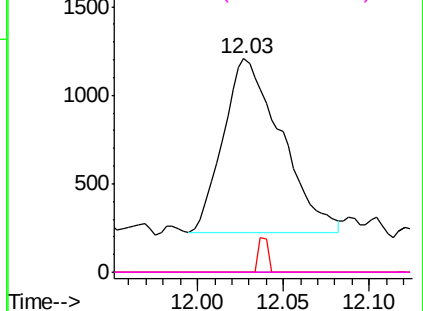


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 32.032 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060041.D

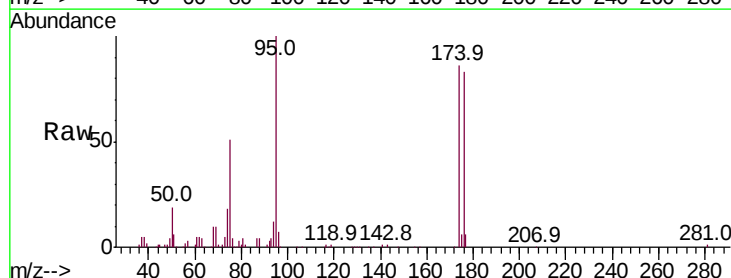
Acq: 10 Feb 2020 13:17

Tgt Ion: 75 Resp: 70897

Ion Ratio Lower Upper

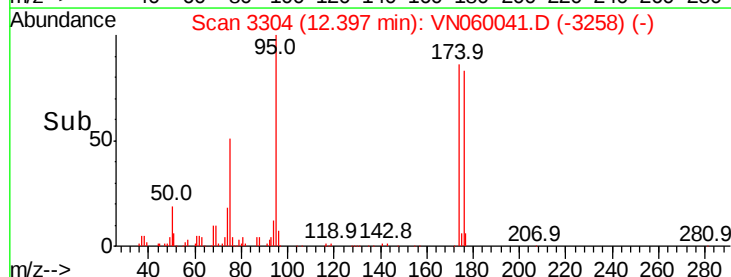
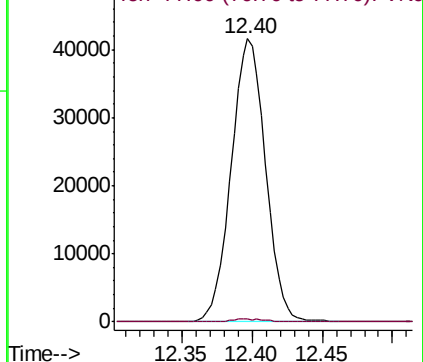
75 100

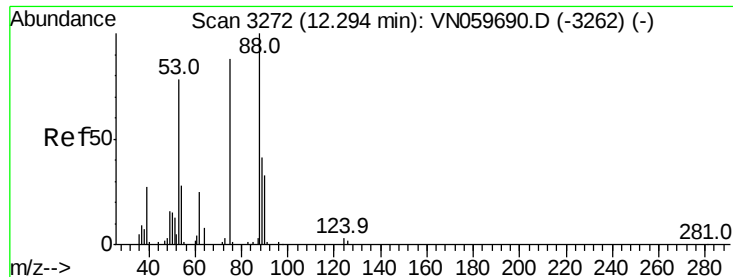
77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.788 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Instrument :

MSVOA_N

ClientSampled :

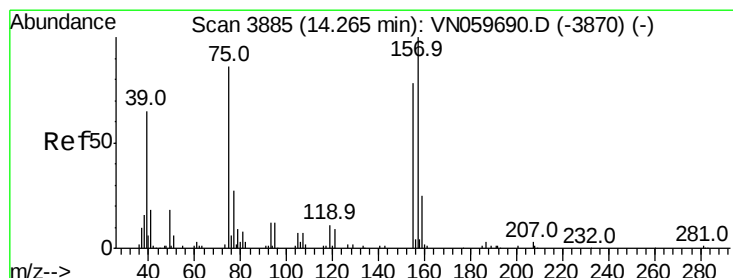
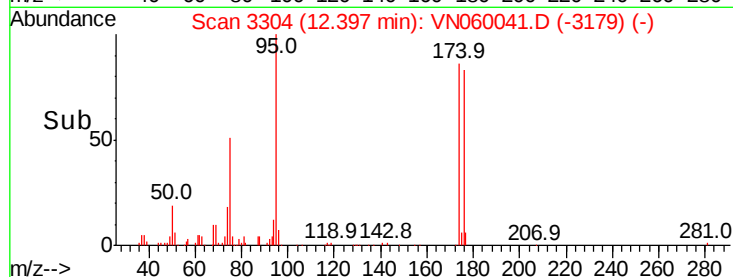
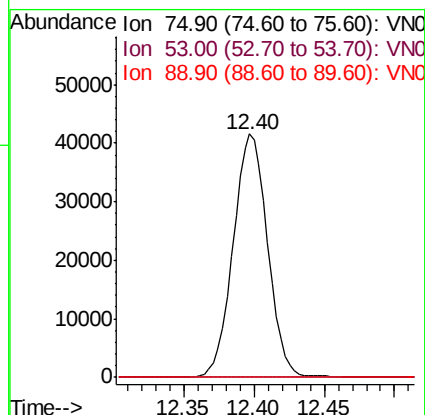
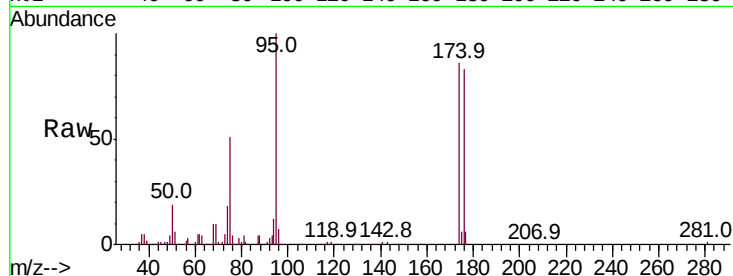
Tot Ion: 75 Resp: 70897

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.35 min Scan# 3910

Delta R.T. 0.08 min

Lab File: VN060041.D

Acq: 10 Feb 2020 13:17

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#

