

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060797.D
 Acq On : 31 Mar 2020 19:29
 Operator : JC/MD
 Sample : PB127897ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:25:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	196940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	329250	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144590	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	127505	47.16	ug/l	0.00
Spiked Amount						
			Recovery	=	94.32%	
35) Dibromofluoromethane	7.56	113	97086	48.77	ug/l	0.00
Spiked Amount						
			Recovery	=	97.54%	
50) Toluene-d8	10.08	98	406241	49.96	ug/l	0.00
Spiked Amount						
			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.40	95	153857	51.63	ug/l	0.00
Spiked Amount						
			Recovery	=	103.26%	

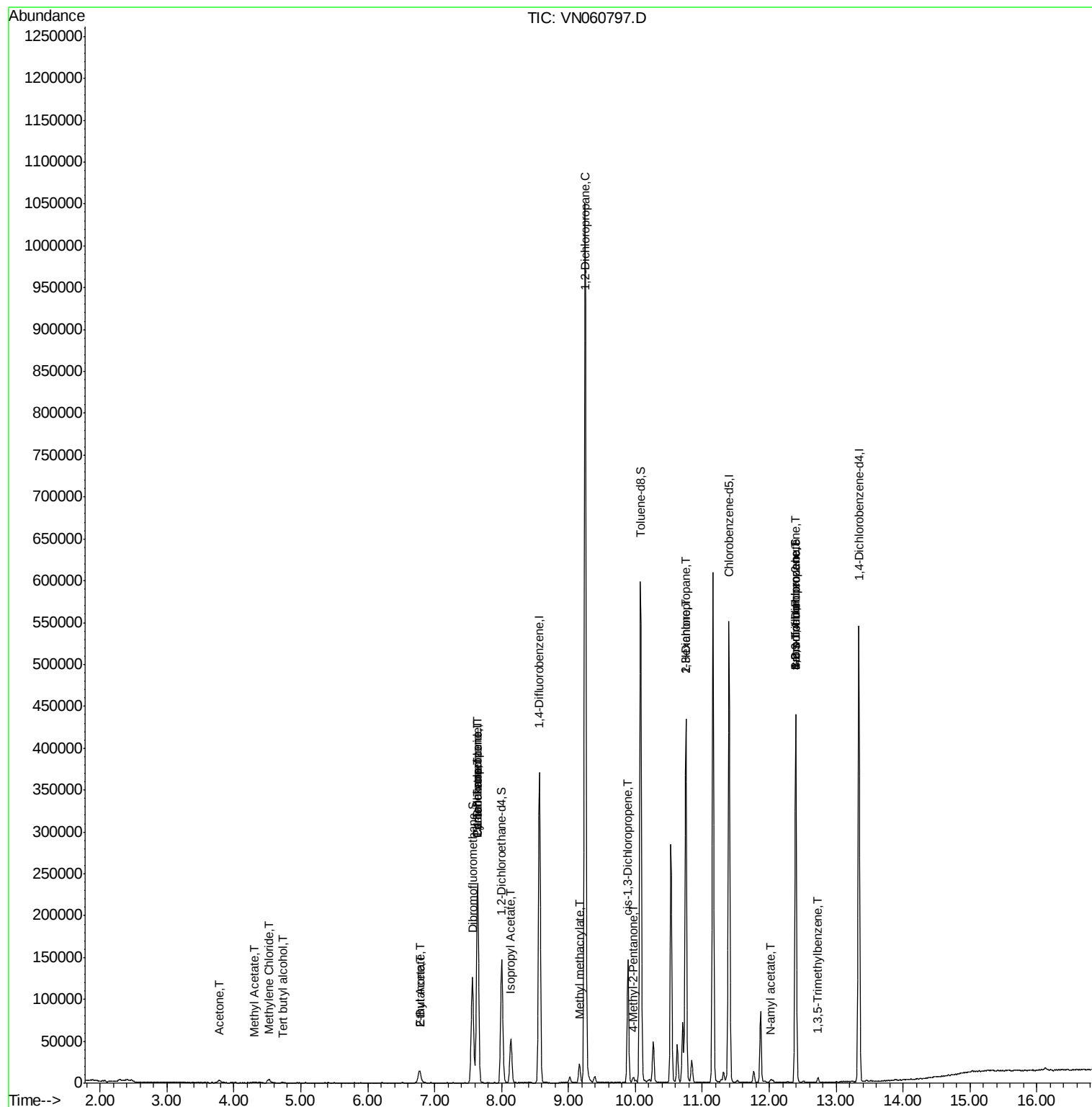
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	97	0.244	ug/l #	72
16) Acetone	3.78	43	6319	6.598	ug/l	99
18) Methyl Acetate	4.29	43	2217	0.822	ug/l #	54
20) Methylene Chloride	4.52	84	3326	1.412	ug/l	92
25) 2-Butanone	6.79	43	1190	0.768	ug/l #	50
31) Cyclohexane	7.64	56	4091	0.940	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15355	4.816	ug/l #	49
37) Ethyl Acetate	6.79	43	1190	0.345	ug/l #	63
38) Carbon Tetrachloride	7.64	117	19126	6.693	ug/l #	16
43) Isopropyl Acetate	8.14	43	63390	11.158	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1123	0.442	ug/l #	43
48) Methyl methacrylate	9.16	41	3290	1.301	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5345	1.653	ug/l #	85
54) cis-1,3-Dichloropropene	9.89	75	26021	6.472	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4243	1.093	ug/l #	42
59) 2-Hexanone	10.75	43	63715	27.359	ug/l #	52
71) Bromoform	12.39	173	258	1.815	ug/l #	1
74) N-amyl acetate	12.02	43	3102	0.619	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	79249	25.401	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3359	0.365	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.39	75	79249	65.237	ug/l #	13

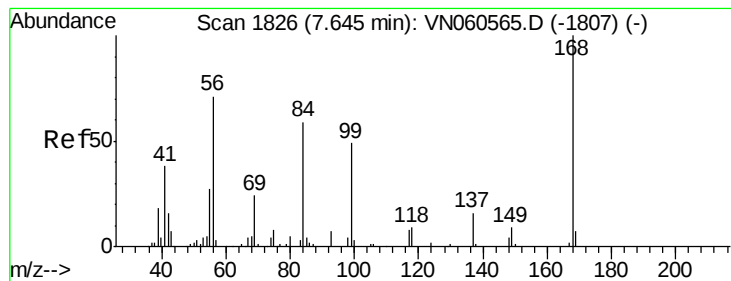
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

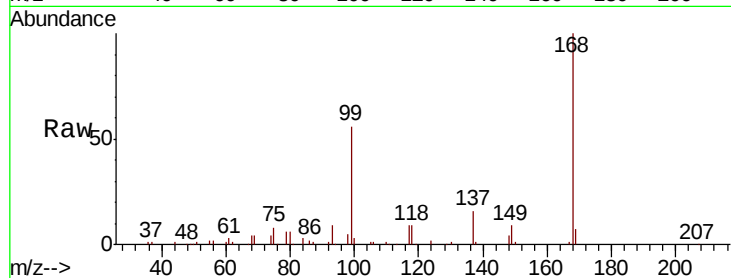
ClientSampled :

Tot Ion:168 Resp: 196940

Ion Ratio Lower Upper

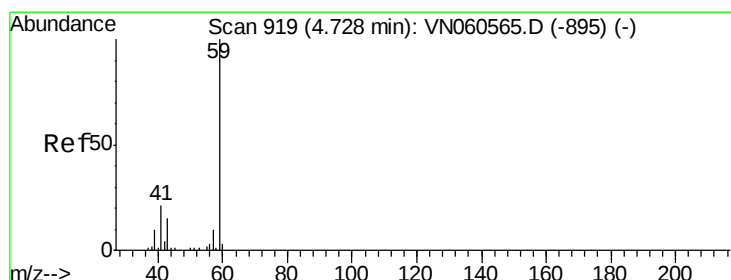
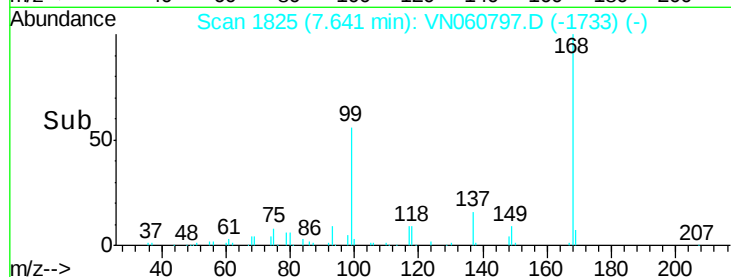
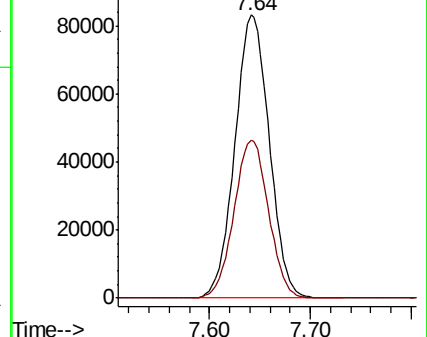
168 100

99 56.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060797.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060797.D (-1733) (-)



#11

Tert butyl alcohol

Concen: 0.244 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060797.D

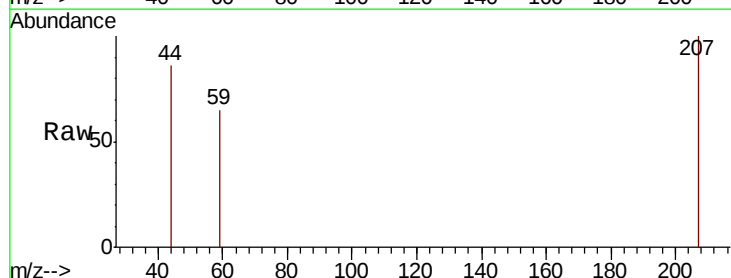
Acq: 31 Mar 2020 19:29

Tgt Ion: 59 Resp: 97

Ion Ratio Lower Upper

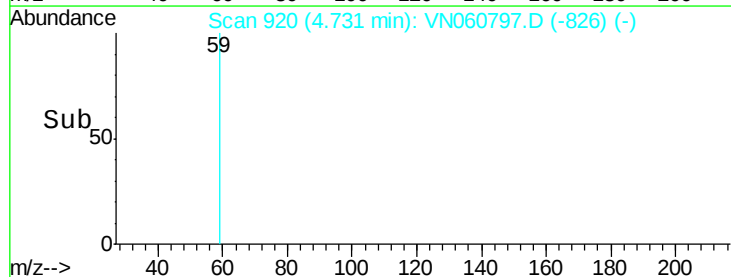
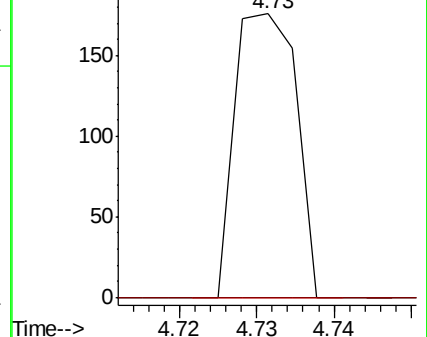
59 100

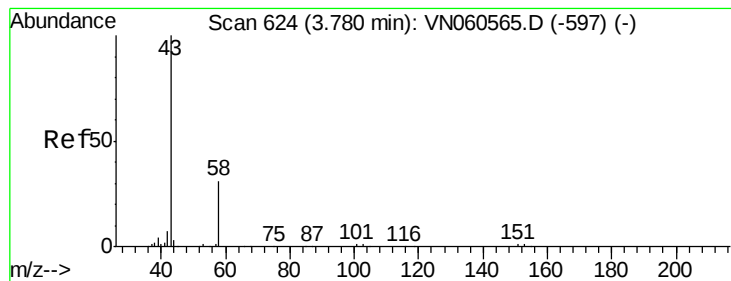
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060797.D (-826) (-)

Ion 57.00 (56.70 to 57.70): VN060797.D (-826) (-)





#16

Acetone

Concen: 6.598 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

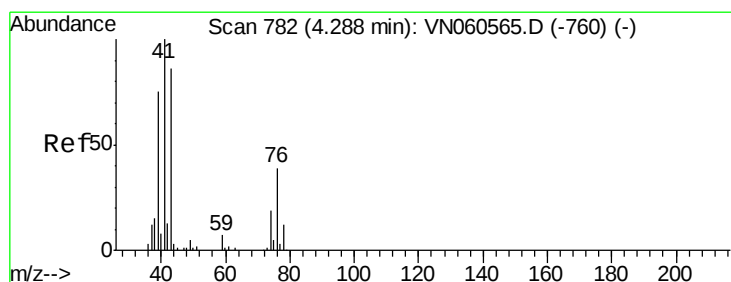
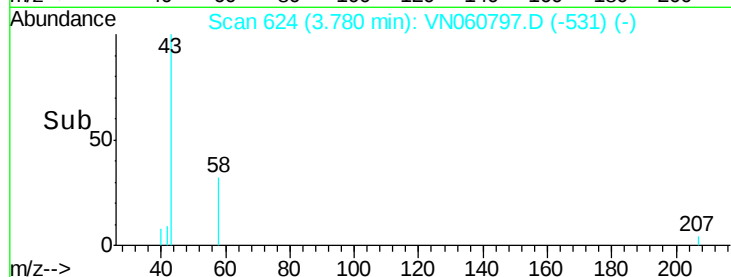
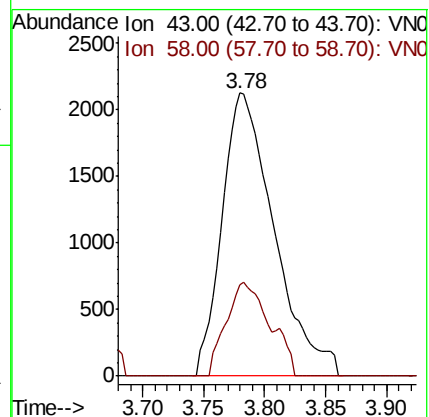
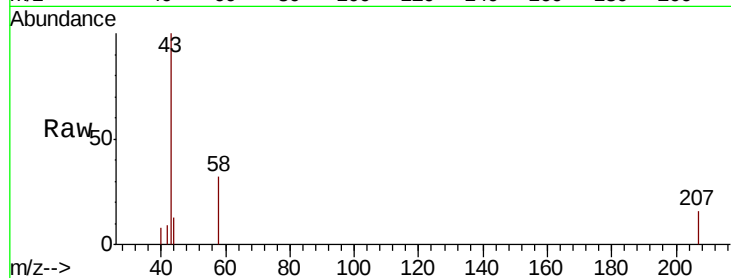
ClientSampleId :

Tot Ion: 43 Resp: 6319

Ion Ratio Lower Upper

43 100

58 32.1 25.1 37.7



#18

Methyl Acetate

Concen: 0.822 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060797.D

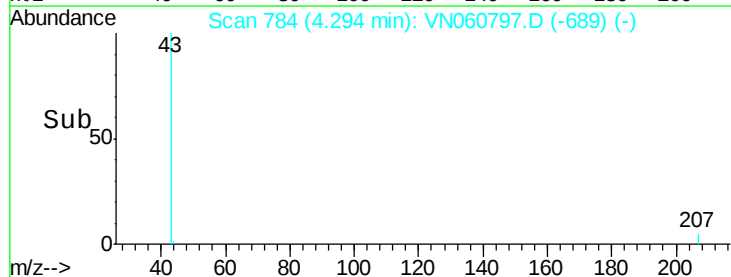
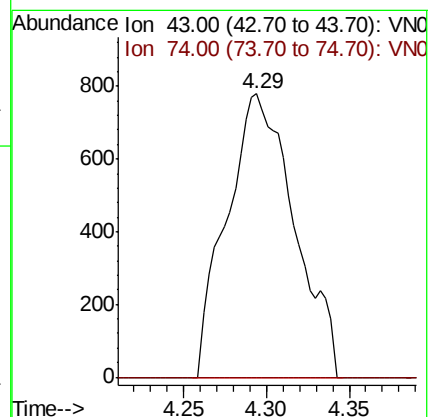
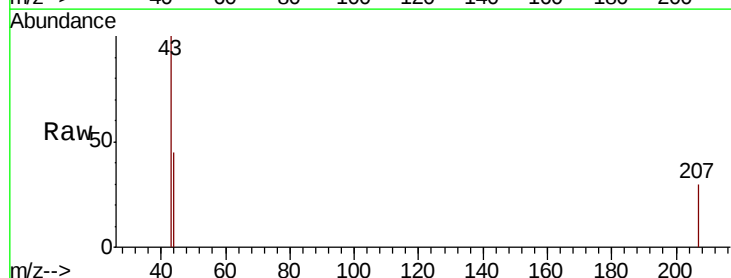
Acq: 31 Mar 2020 19:29

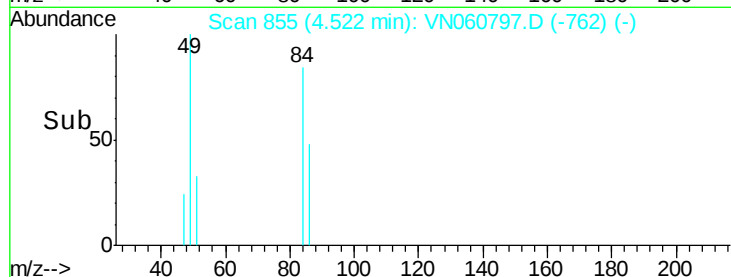
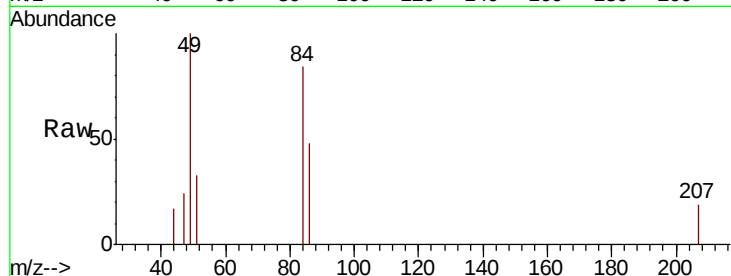
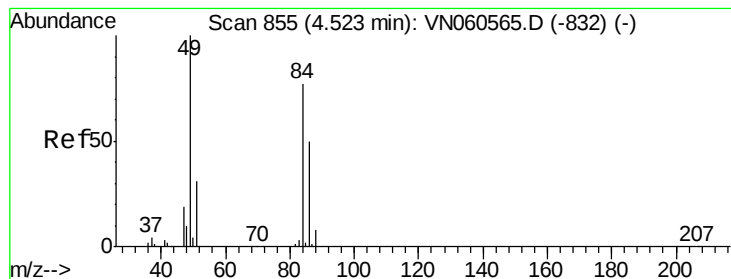
Tgt Ion: 43 Resp: 2217

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#





#20

Methylene Chloride

Concen: 1.412 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 3326

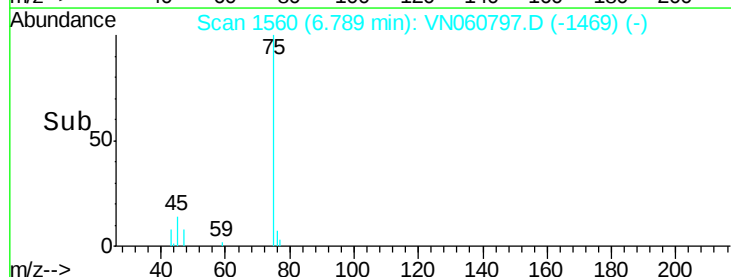
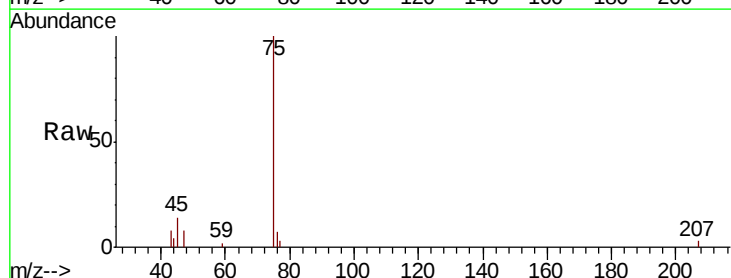
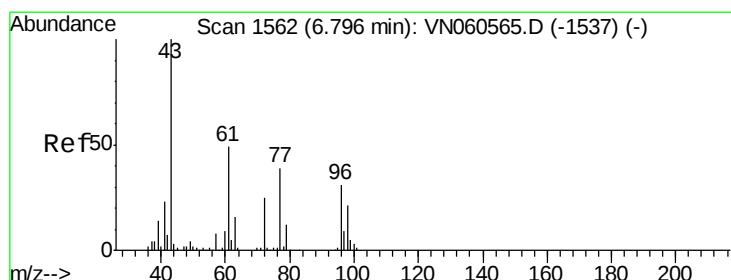
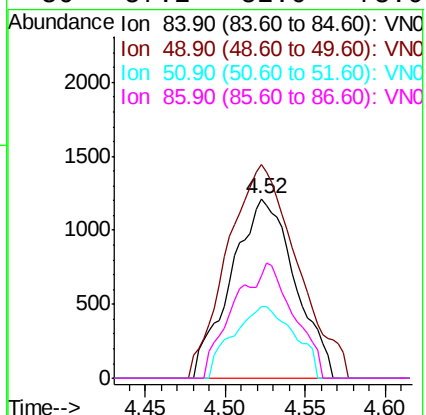
Ion Ratio Lower Upper

84 100

49 119.0 103.3 154.9

51 39.8 31.6 47.4

86 57.2 52.0 78.0



#25

2-Butanone

Concen: 0.768 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VN060797.D

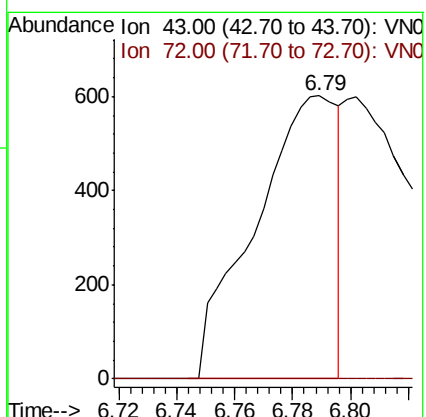
Acq: 31 Mar 2020 19:29

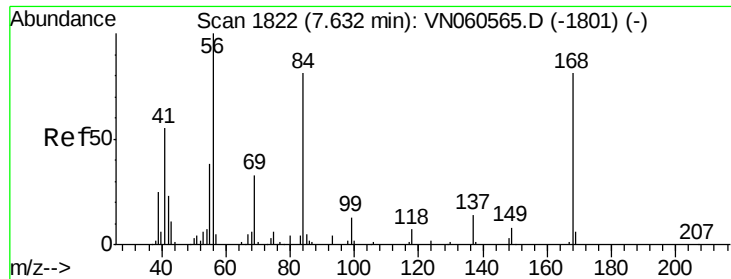
Tgt Ion: 43 Resp: 1190

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#

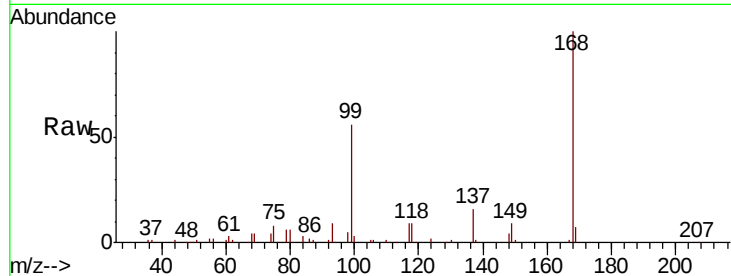




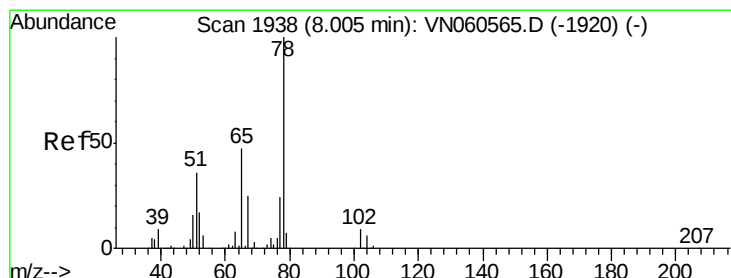
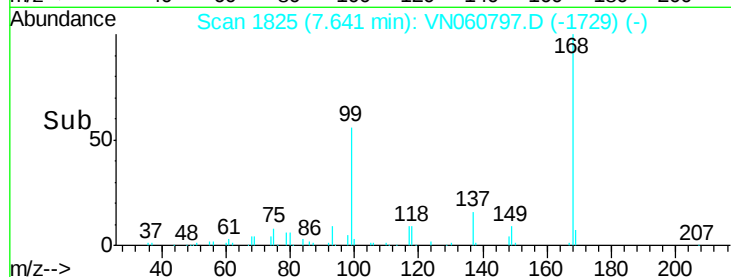
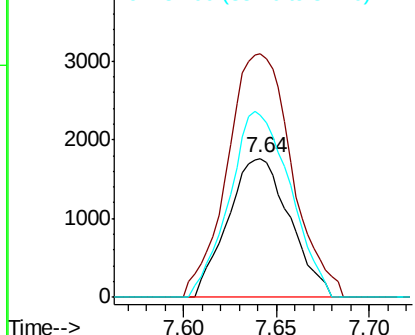
#31
Cyclohexane
Concen: 0.940 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4091
Ion Ratio Lower Upper
56 100
69 164.1 26.6 40.0#
84 131.8 64.3 96.5#

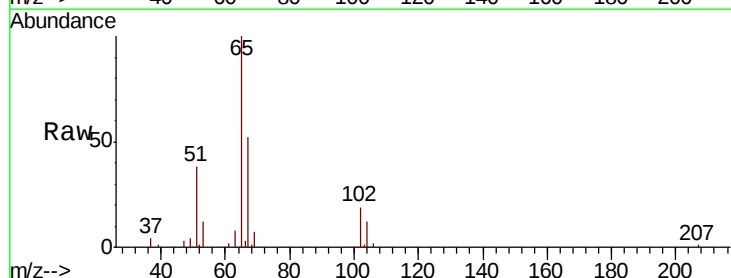


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

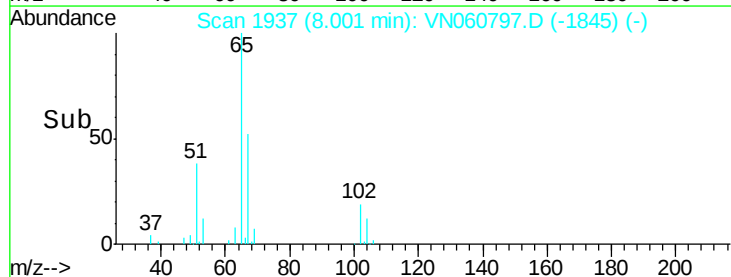
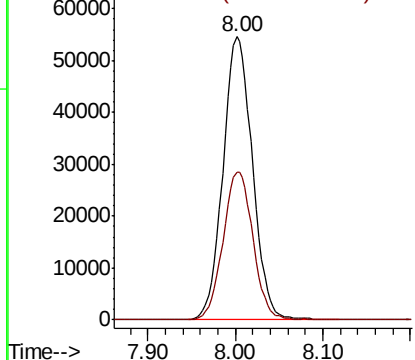


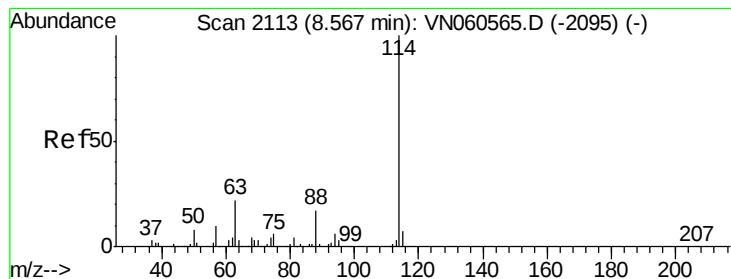
#33
1,2-Dichloroethane-d4
Concen: 47.162 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

Tgt Ion: 65 Resp: 127505
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

ClientSampleId :

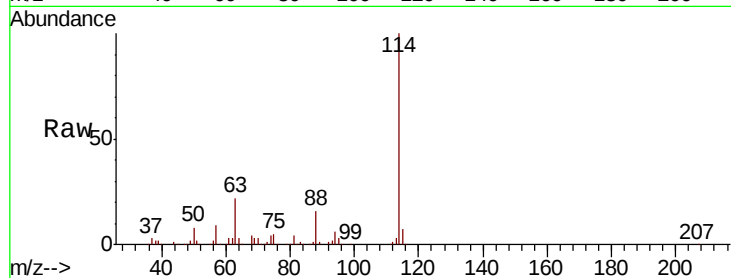
Tot Ion:114 Resp: 329250

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.8

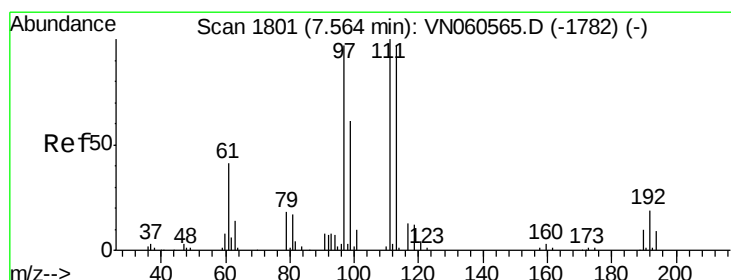
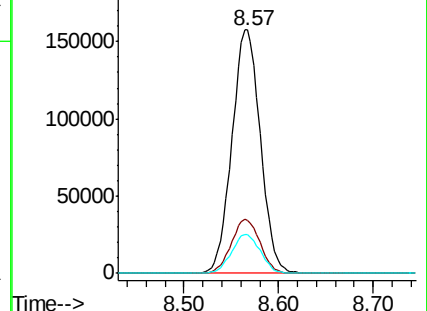
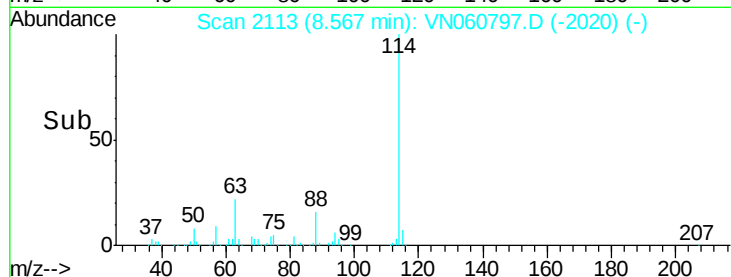
88 15.8 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.766 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

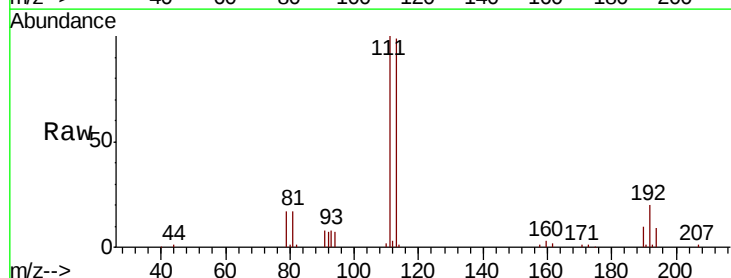
Tgt Ion:113 Resp: 97086

Ion Ratio Lower Upper

113 100

111 103.7 82.9 124.3

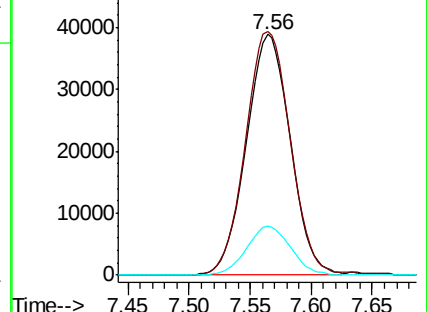
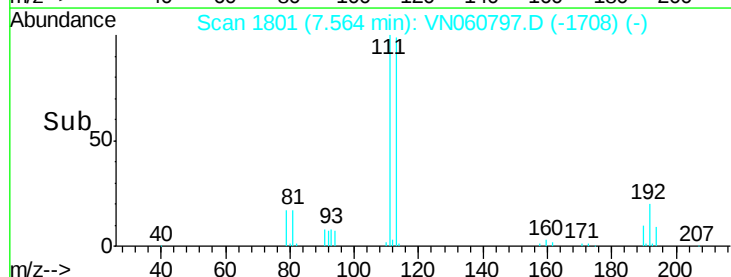
192 20.2 15.8 23.8

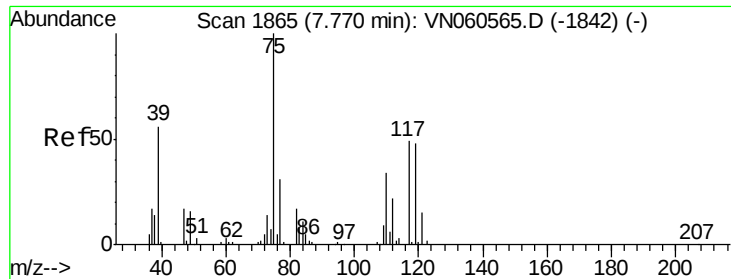


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

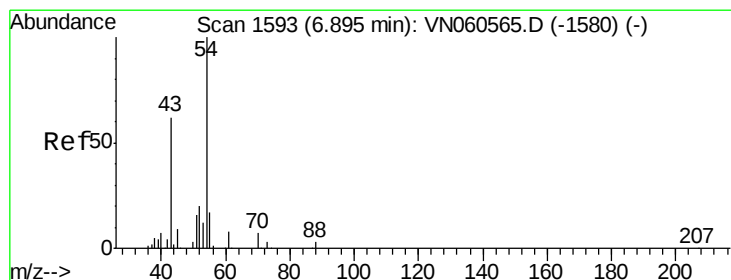
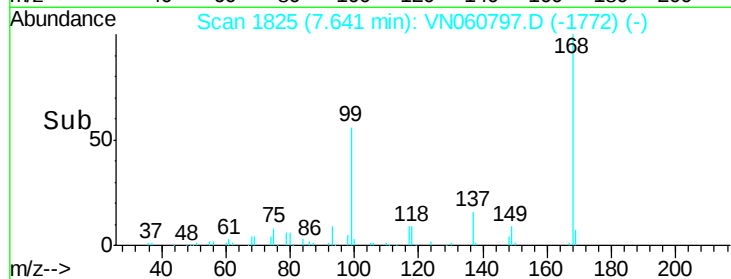
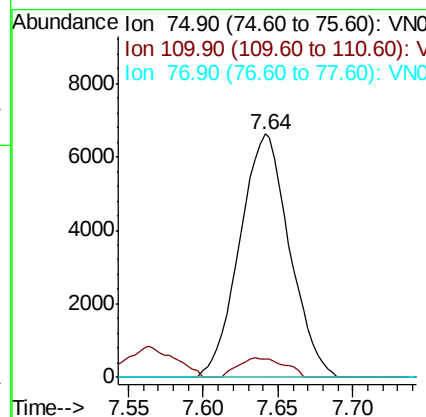
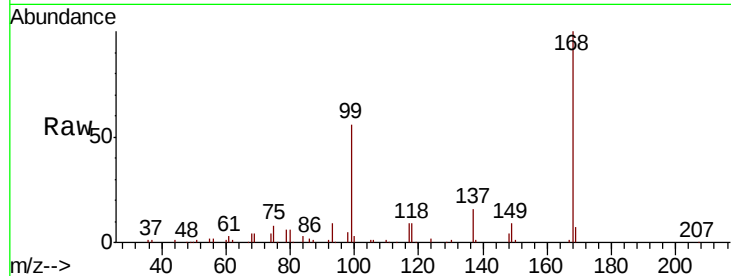




#36
 1,1-Dichloropropene
 Concen: 4.816 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

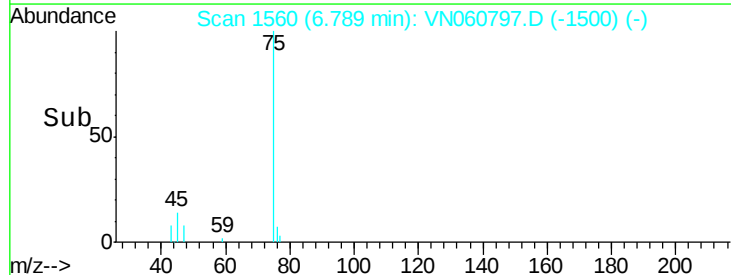
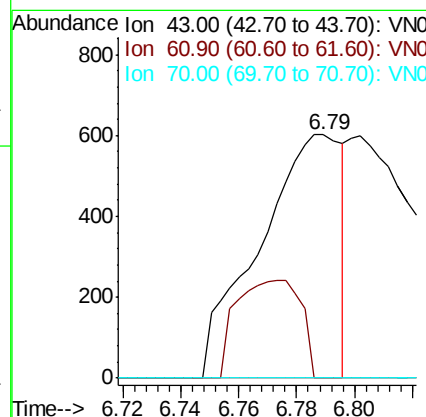
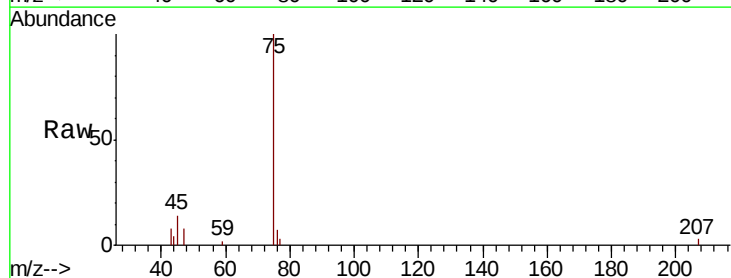
Instrument :
 MSVOA_N
 ClientSampleId :

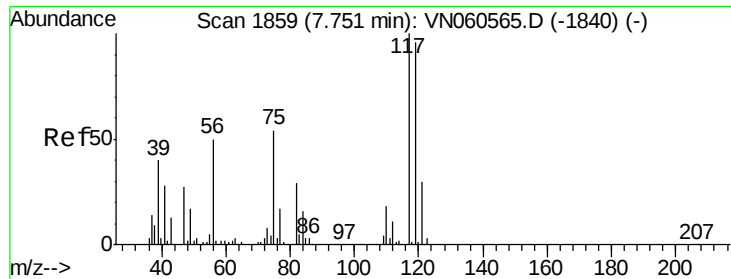
Tot Ion	75	Resp	15355
Ion Ratio	100	Lower	Upper
75	100		
110	7.4	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.345 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. -0.11 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

Tgt Ion	43	Resp	1190
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	31.1	10.6	15.8#
70	0.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 6.693 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

ClientSampled :

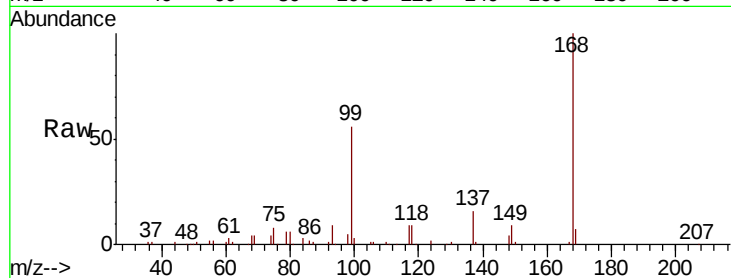
Tot Ion:117 Resp: 19126

Ion Ratio Lower Upper

117 100

119 4.9 76.2 114.2#

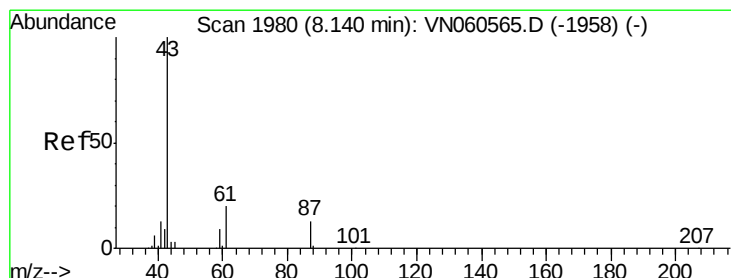
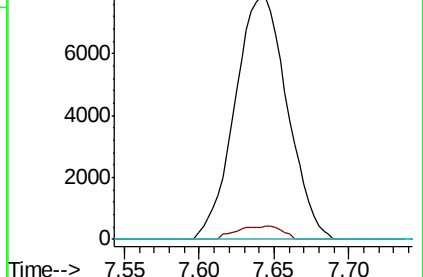
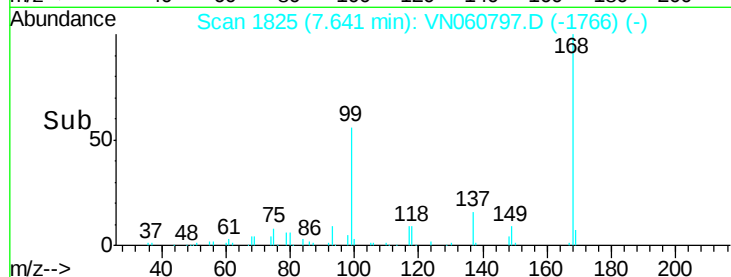
121 0.0 23.7 35.5#



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: 11.158 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

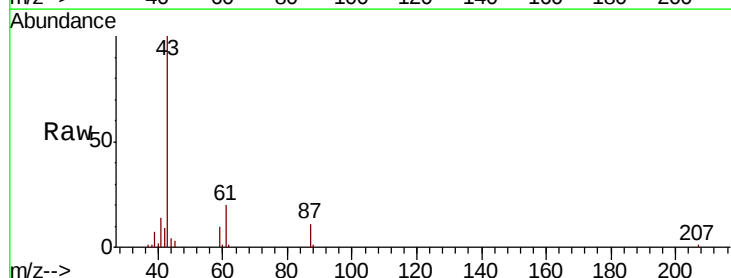
Tgt Ion: 43 Resp: 63390

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

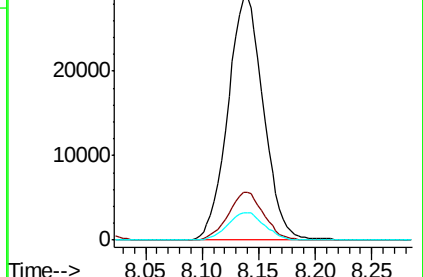
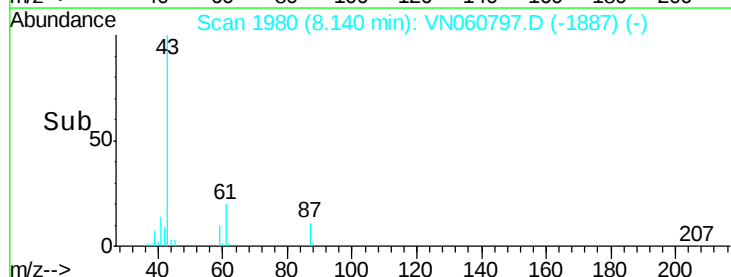
87 11.5 9.8 14.8

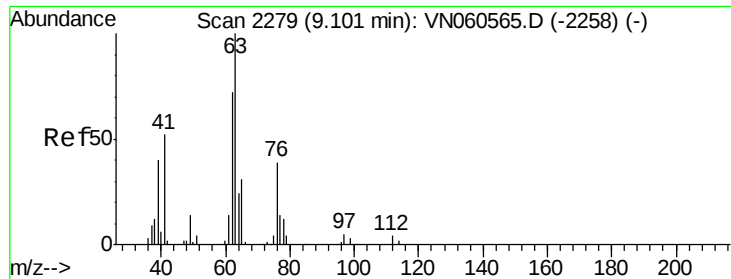


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

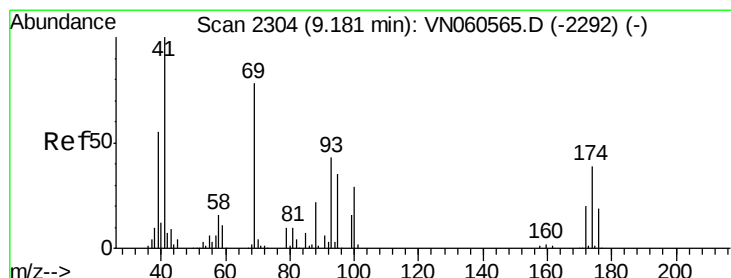
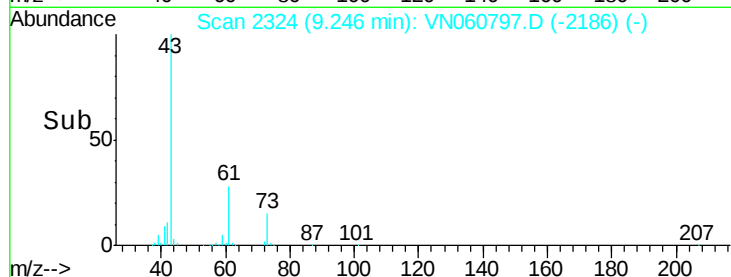
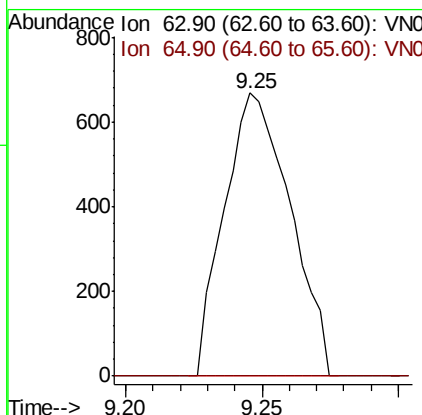
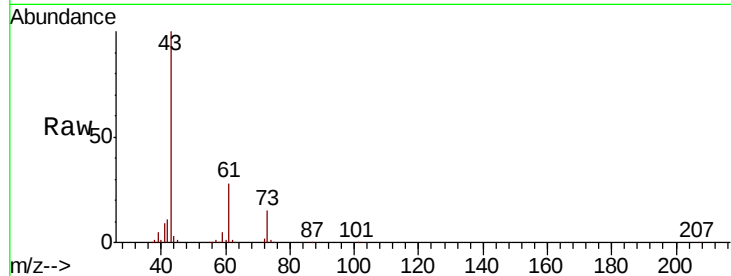




#45
 1,2-Dichloropropane
 Concen: 0.442 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

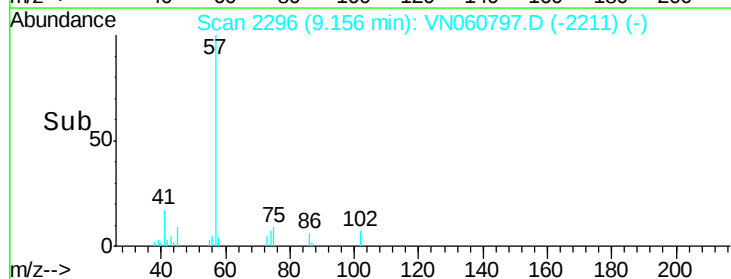
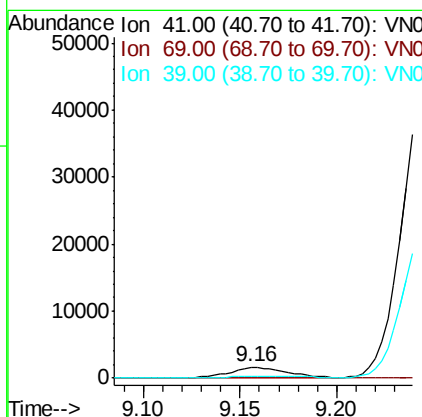
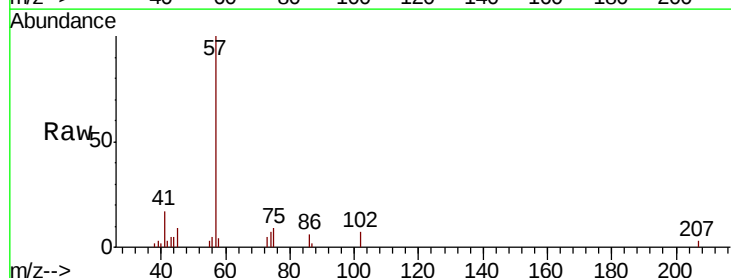
Instrument :
 MSVOA_N
 ClientSampleId :

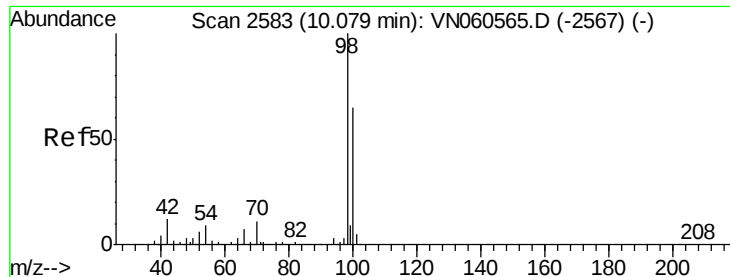
Tot Ion: 63 Resp: 1123
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.301 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.03 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

Tgt Ion: 41 Resp: 3290
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

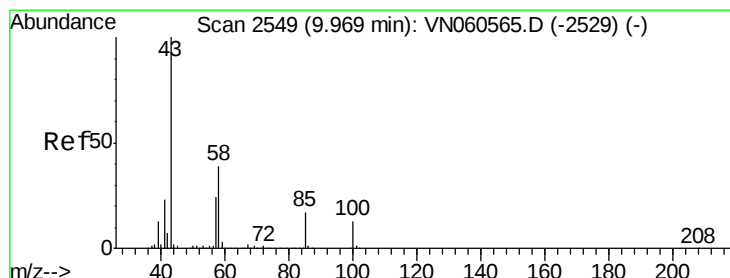
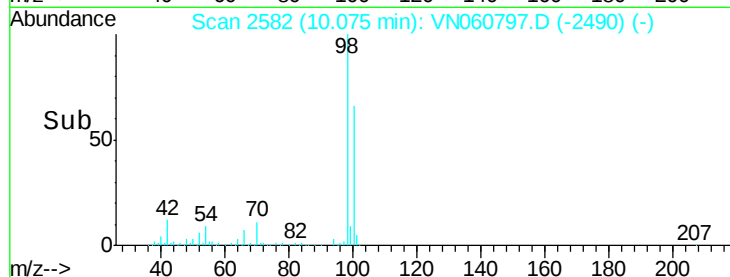
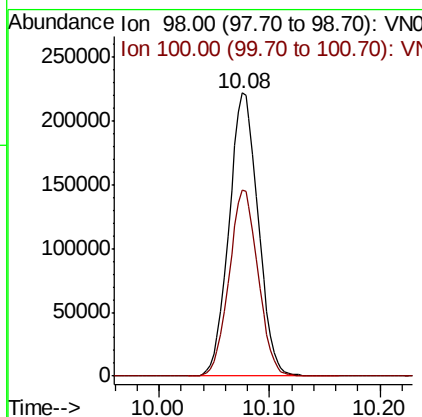
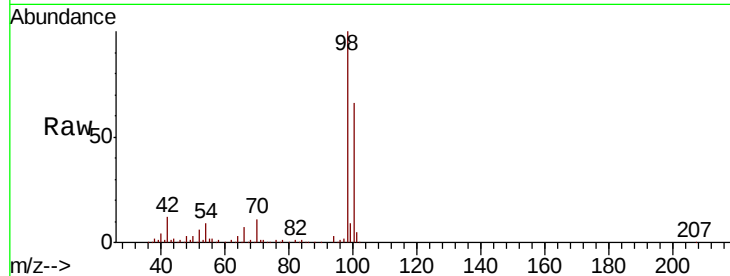




#50
Toluene-d8
Concen: 49.956 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

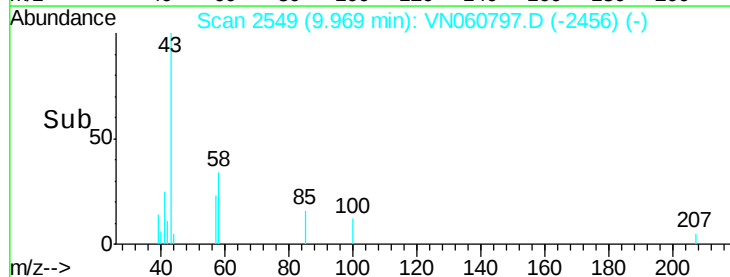
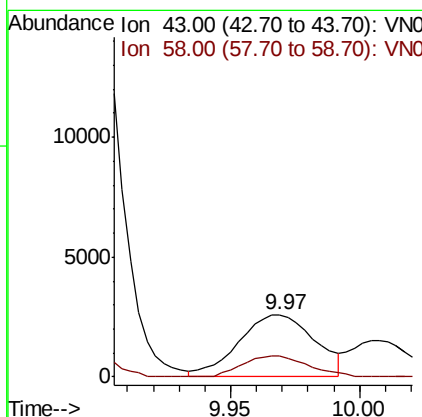
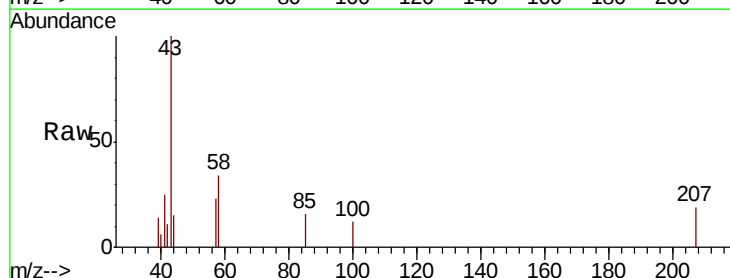
Instrument :
MSVOA_N
ClientSampled :

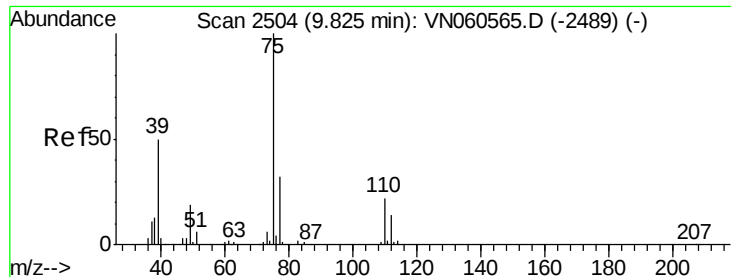
Tot Ion: 98 Resp: 406241
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.653 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

Tgt Ion: 43 Resp: 5345
Ion Ratio Lower Upper
43 100
58 29.5 30.8 46.2#



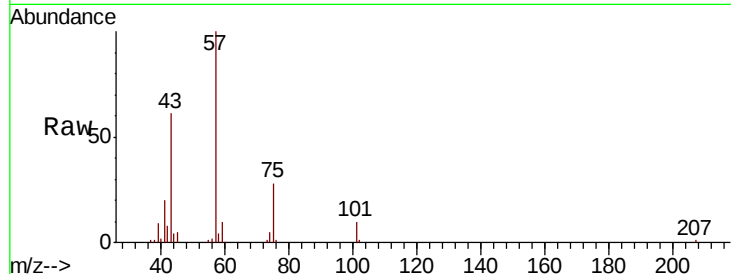


#54

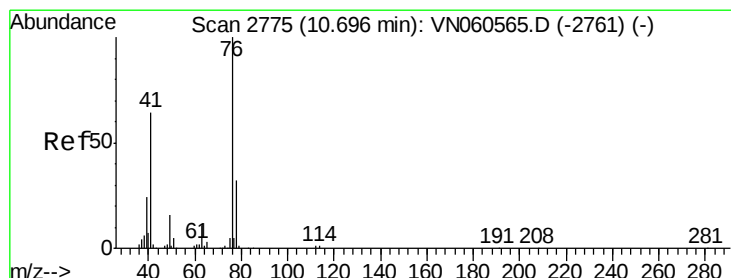
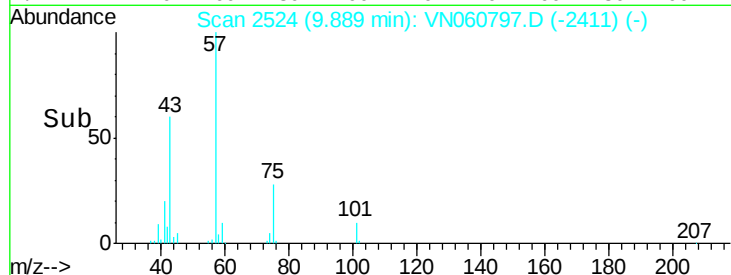
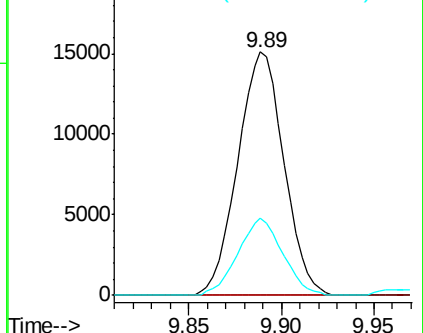
cis-1,3-Dichloropropene
 Concen: 6.472 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 26021
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.5 40.2 60.4#



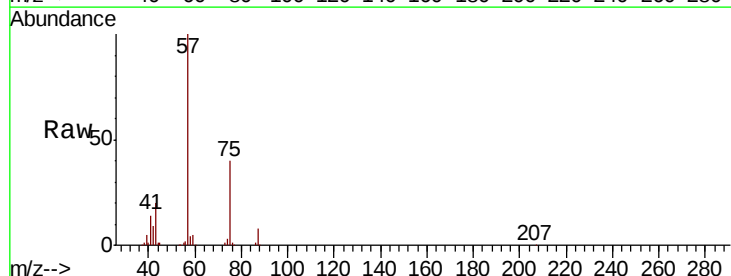
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



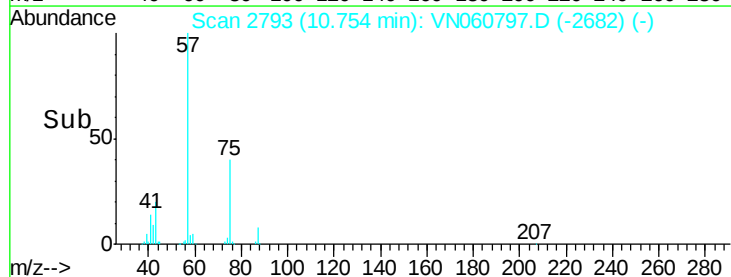
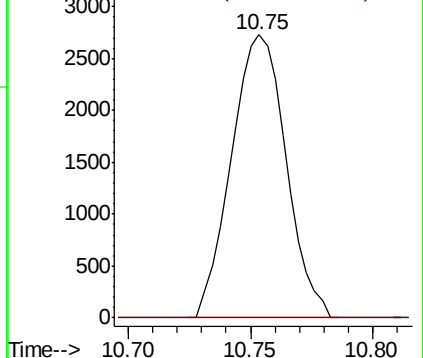
#57

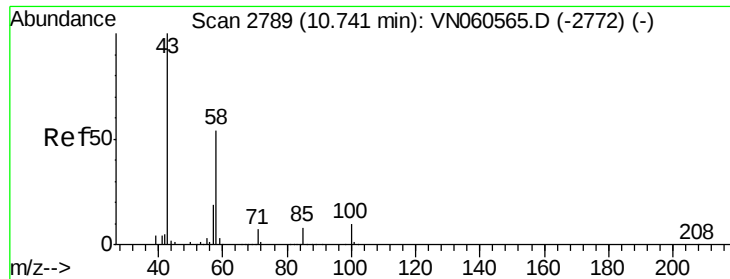
1,3-Dichloropropane
 Concen: 1.093 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060797.D
 Acq: 31 Mar 2020 19:29

Tgt Ion: 76 Resp: 4243
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

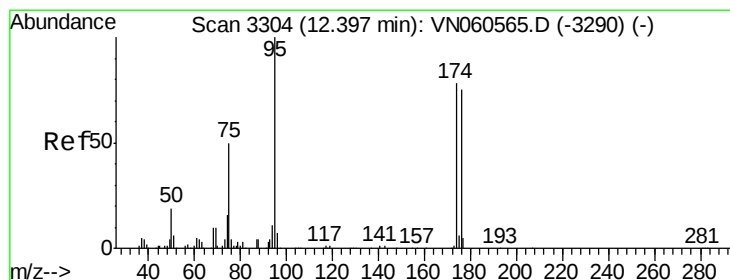
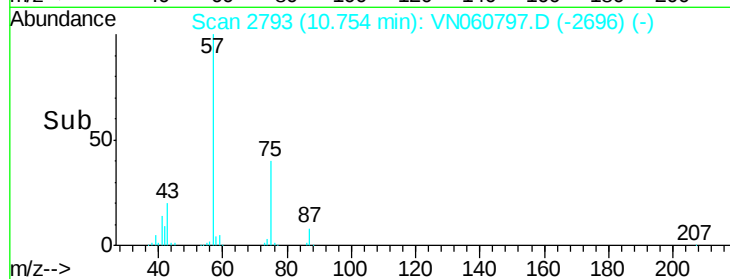
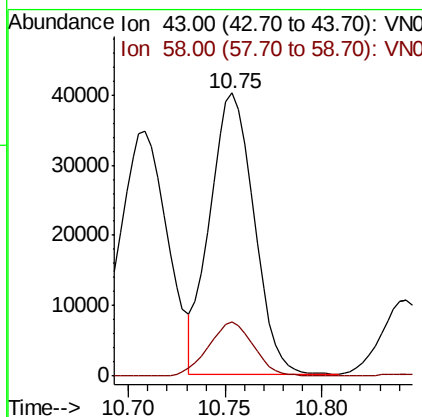
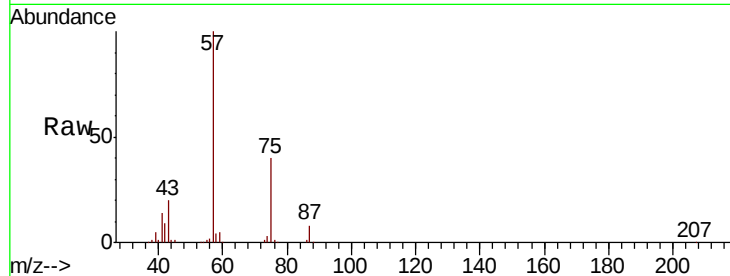




#59
2-Hexanone
Concen: 27.359 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

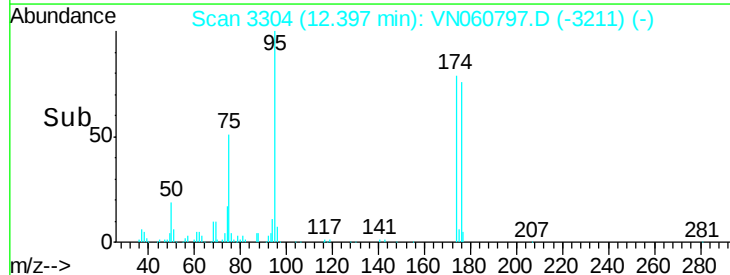
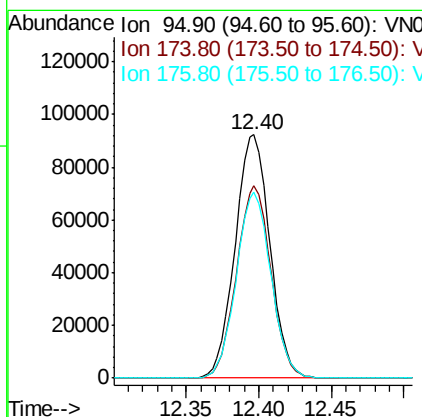
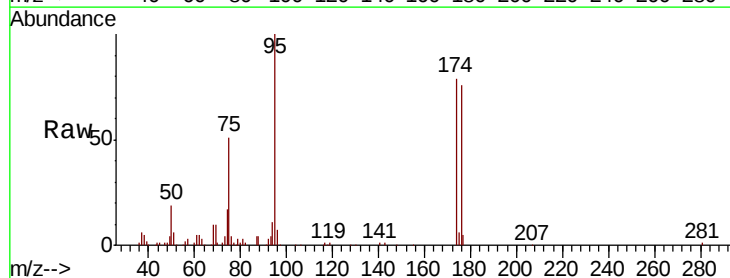
Instrument :
MSVOA_N
ClientSampleId :

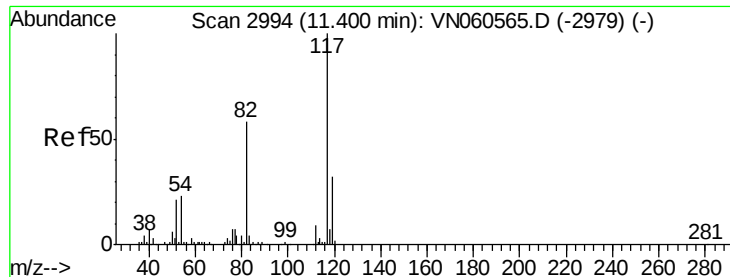
Tot Ion: 43 Resp: 63715
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.626 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

Tgt Ion: 95 Resp: 153857
Ion Ratio Lower Upper
95 100
174 78.5 0.0 157.6
176 76.1 0.0 150.6

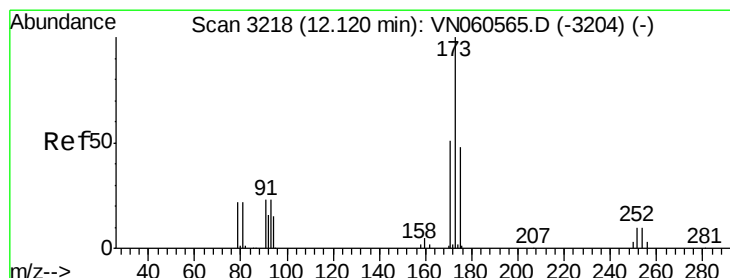
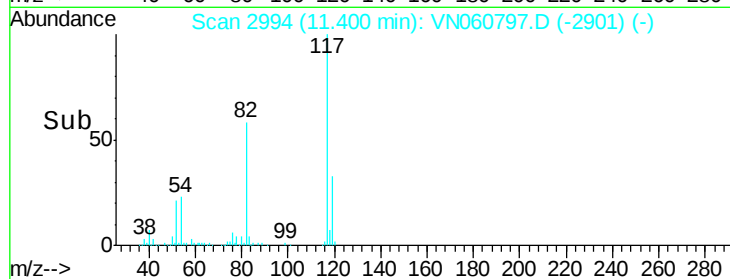
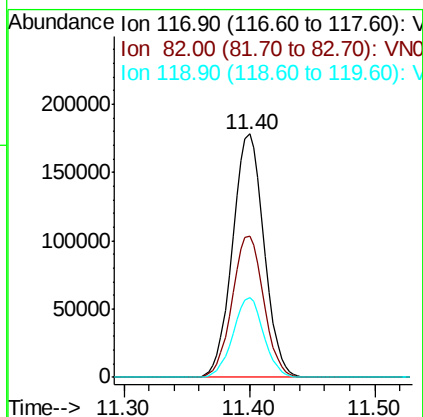
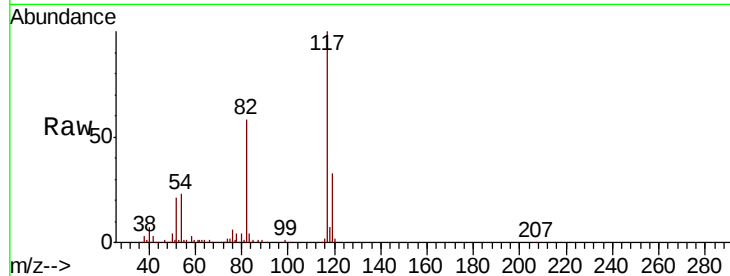




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

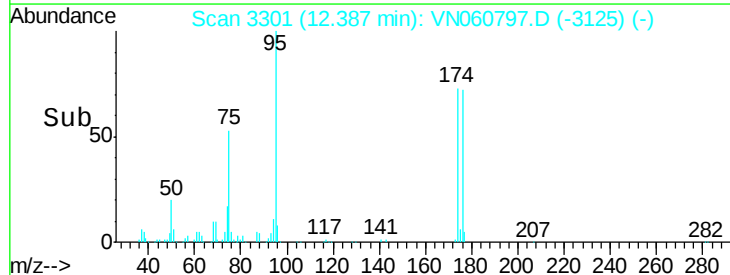
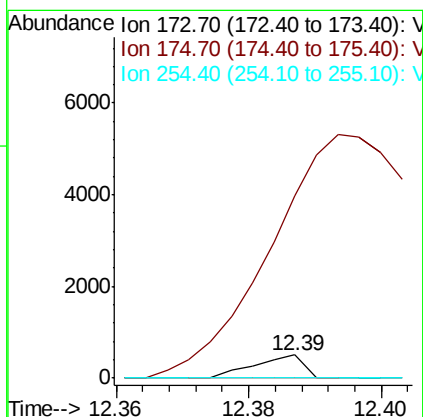
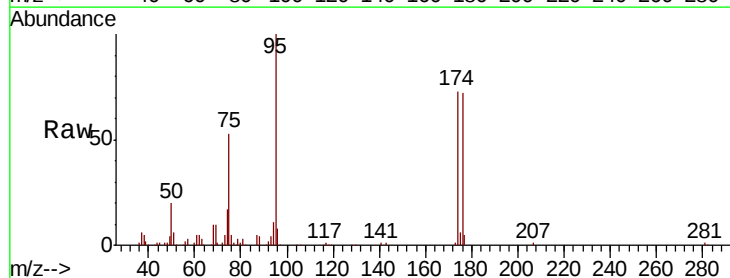
Instrument :
MSVOA_N
ClientSampled :

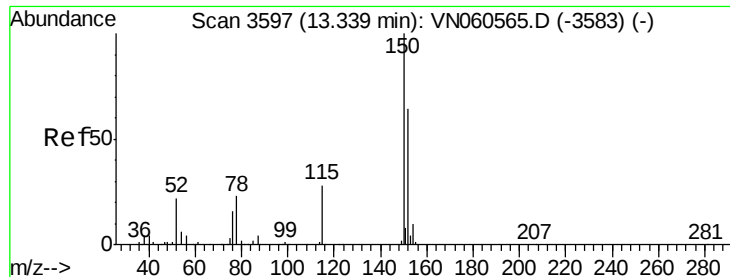
Tot Ion:117 Resp: 311288
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 32.7 25.5 38.3



#71
Bromoform
Concen: 1.815 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.27 min
Lab File: VN060797.D
Acq: 31 Mar 2020 19:29

Tgt Ion:173 Resp: 258
Ion Ratio Lower Upper
173 100
175 2986.8 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

ClientSampled :

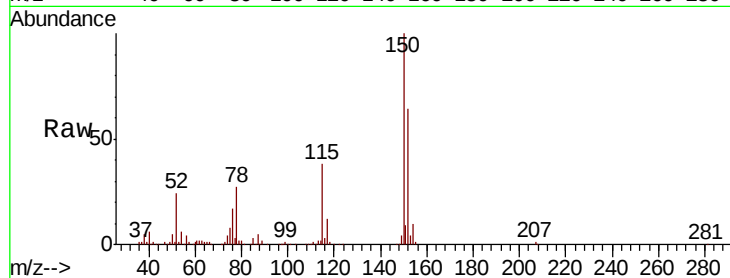
Tot Ion:152 Resp: 144590

Ion Ratio Lower Upper

152 100

115 60.6 30.2 90.6

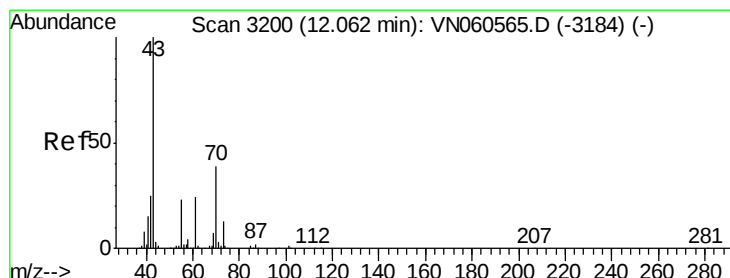
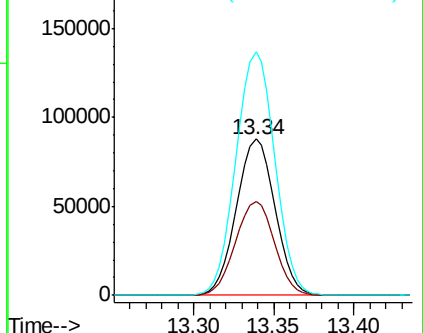
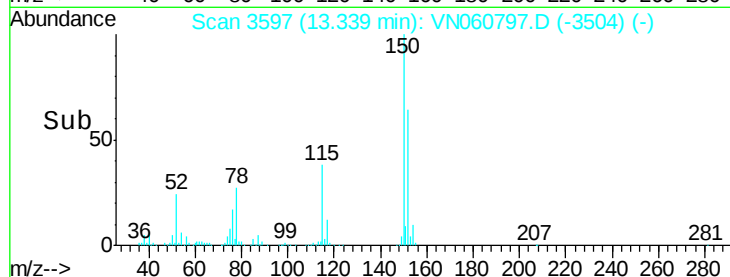
150 157.1 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.619 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Tgt Ion: 43 Resp: 3102

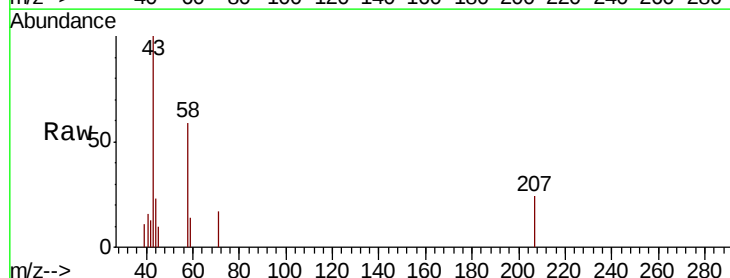
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

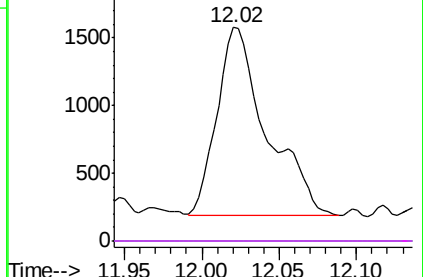
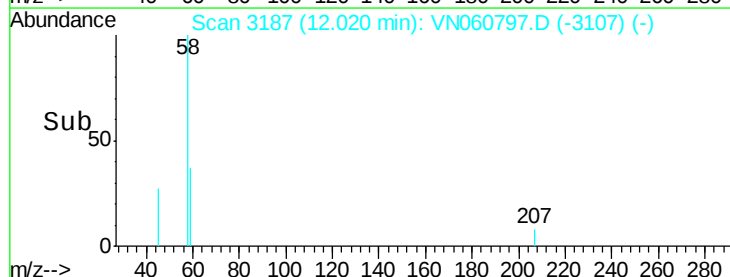


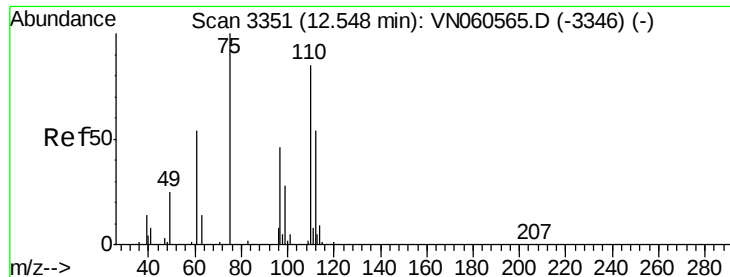
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.401 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

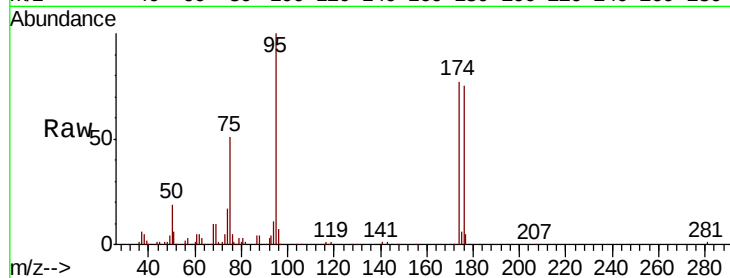
ClientSampled :

Tot Ion: 75 Resp: 79249

Ion Ratio Lower Upper

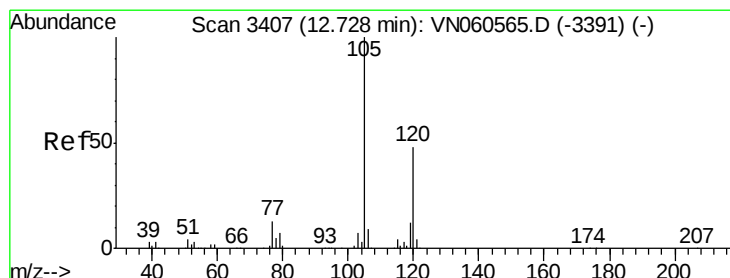
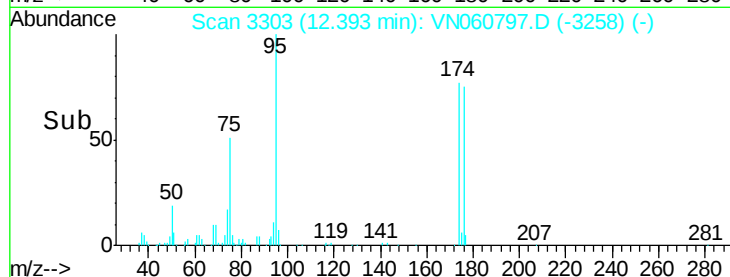
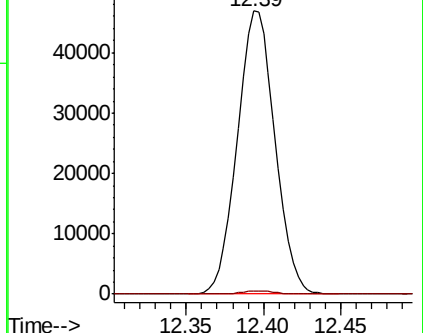
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060797.D (-3303) (-)

Ion 77.00 (76.70 to 77.70): VN060797.D (-3303) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.365 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060797.D

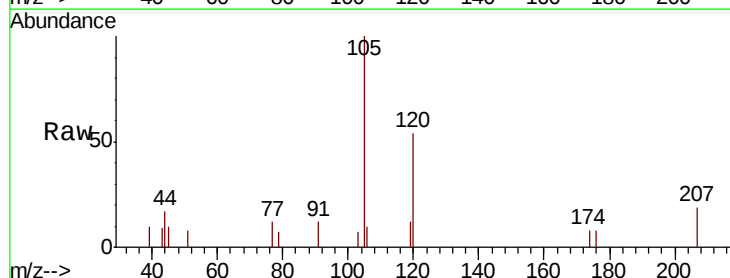
Acq: 31 Mar 2020 19:29

Tgt Ion:105 Resp: 3359

Ion Ratio Lower Upper

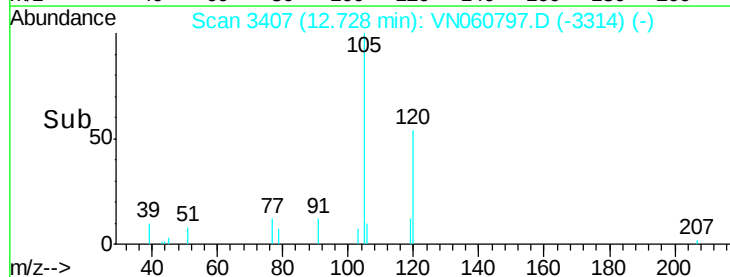
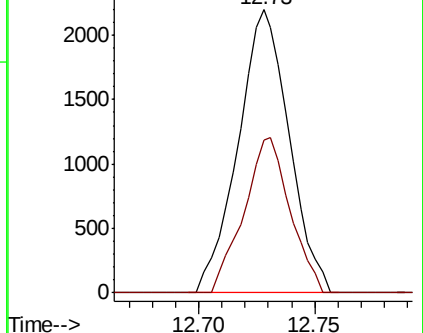
105 100

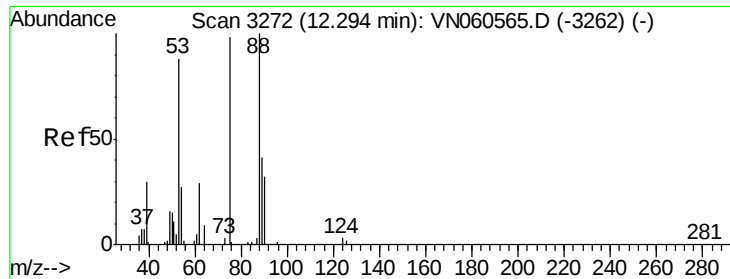
120 49.8 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060797.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060797.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 65.237 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060797.D

Acq: 31 Mar 2020 19:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 79249

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

