

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050820\
 Data File : VN061365.D
 Acq On : 8 May 2020 16:32
 Operator : JC/MD
 Sample : PB128729ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 09 00:43:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	100414	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	185856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	181766	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	78545	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	85310	53.69	ug/l	0.00
Spiked Amount			Recovery	=	107.38%	
35) Dibromofluoromethane	7.55	113	47643	43.35	ug/l	0.00
Spiked Amount			Recovery	=	86.70%	
50) Toluene-d8	10.06	98	236070	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	12.38	95	87493	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	

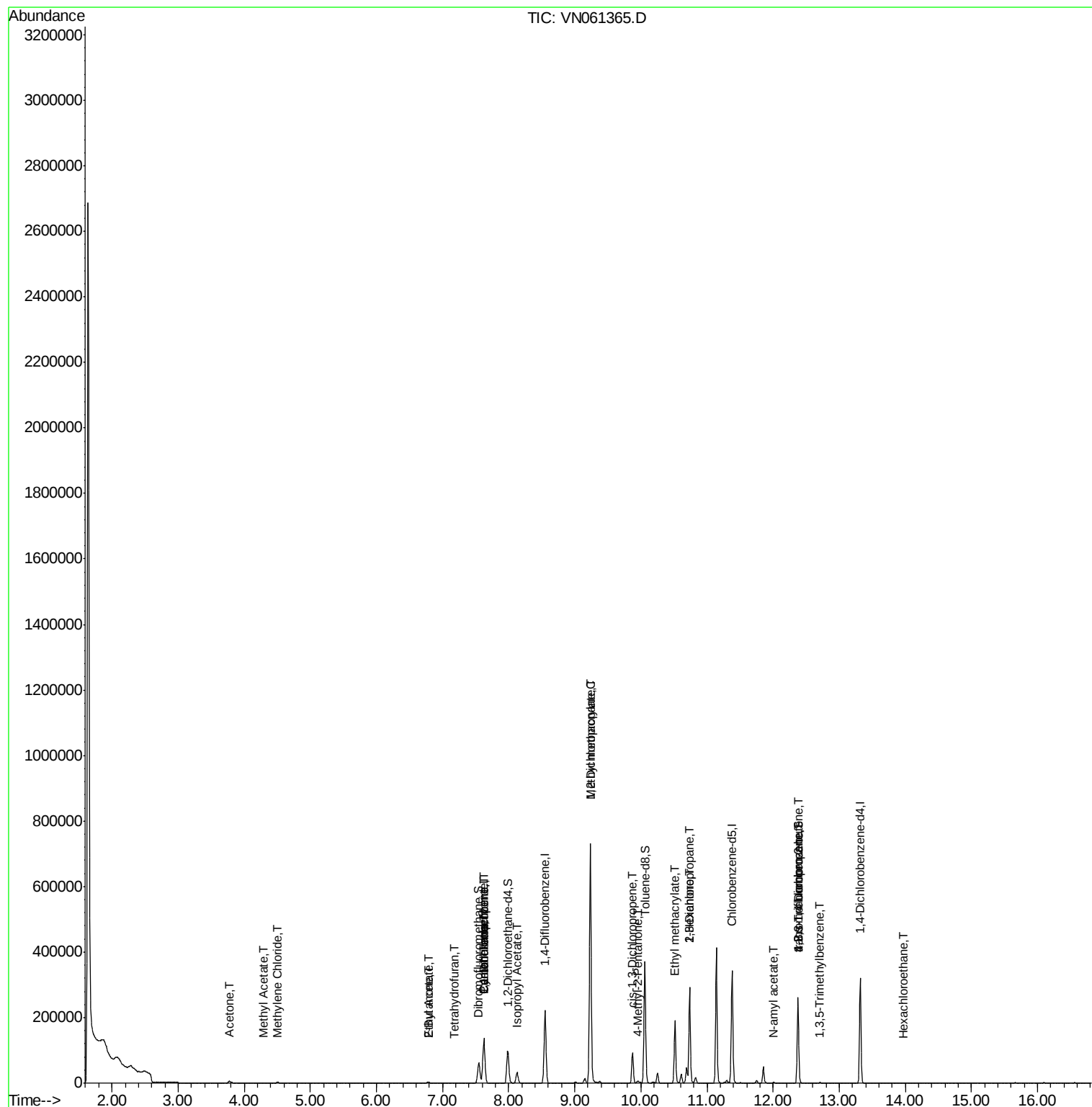
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10742	12.227	ug/l	95
18) Methyl Acetate	4.28	43	1348	1.342	ug/l #	55
20) Methylene Chloride	4.50	84	1534	1.238	ug/l	89
25) 2-Butanone	6.79	43	2378	2.529	ug/l	99
29) Tetrahydrofuran	7.18	42	450	0.711	ug/l #	37
31) Cyclohexane	7.63	56	2609	1.129	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	9462	5.086	ug/l #	49
37) Ethyl Acetate	6.79	43	2378	1.090	ug/l #	71
38) Carbon Tetrachloride	7.63	117	10760	8.335	ug/l #	17
43) Isopropyl Acetate	8.13	43	40471	11.180	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	680	0.459	ug/l #	44
48) Methyl methacrylate	9.24	41	69415	42.496	ug/l #	48
51) 4-Methyl-2-Pentanone	9.95	43	5265	2.471	ug/l	91
54) cis-1,3-Dichloropropene	9.88	75	15593	6.651	ug/l #	61
56) Ethyl methacrylate	10.51	69	583	2.965	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2735	1.168	ug/l #	43
59) 2-Hexanone	10.74	43	45185	29.149	ug/l #	52
74) N-amyl acetate	12.00	43	2231	0.763	ug/l #	46
76) 1,2,3-Trichloropropane	12.37	75	49110	29.657	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1551	0.325	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	49110	75.313	ug/l #	8
90) Hexachloroethane	13.97	117	158	7.885	ug/l #	14

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

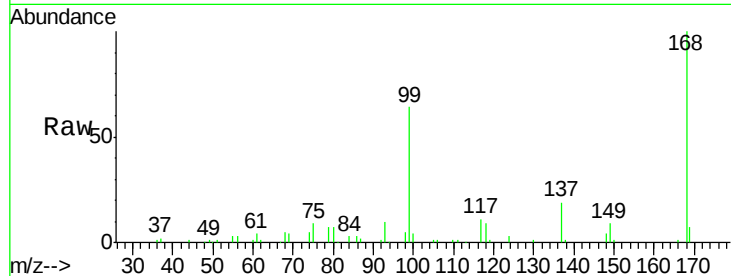
ClientSampleId :

Tot Ion:168 Resp: 100414

Ion Ratio Lower Upper

168 100

99 63.8 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

40000

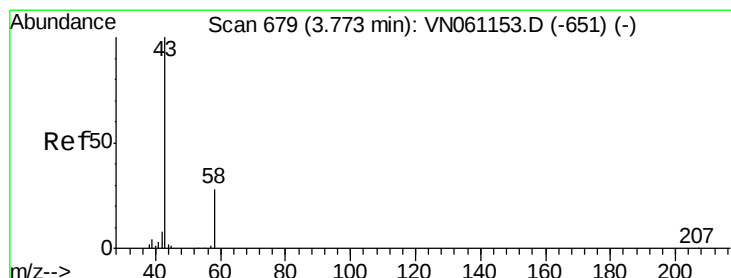
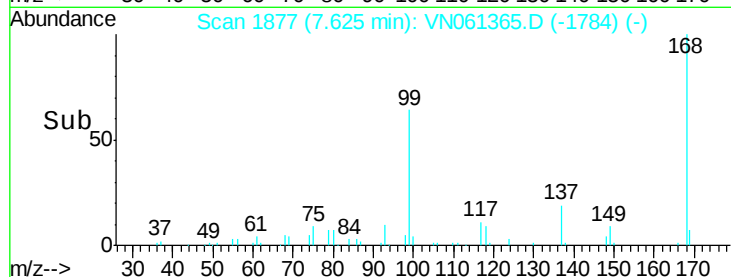
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 12.227 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061365.D

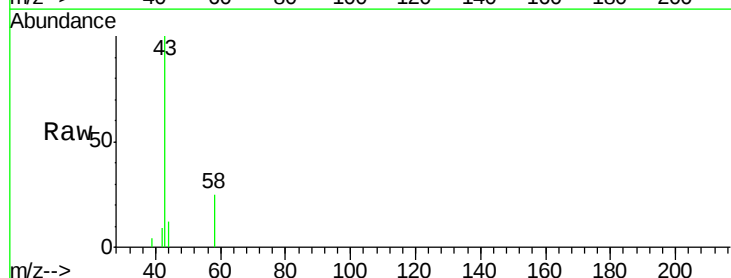
Acq: 8 May 2020 16:32

Tgt Ion: 43 Resp: 10742

Ion Ratio Lower Upper

43 100

58 25.2 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

4000

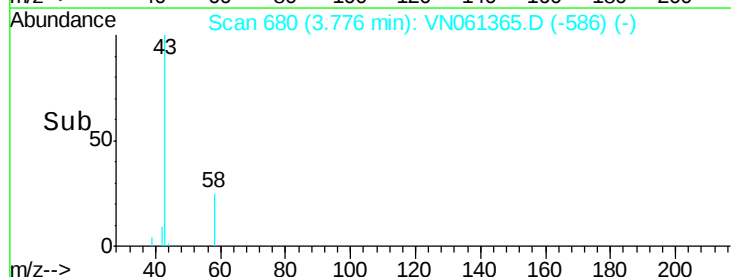
3000

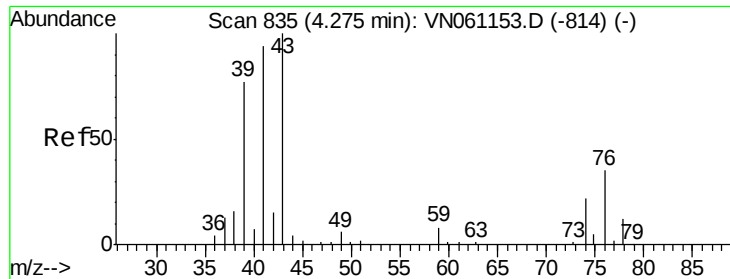
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

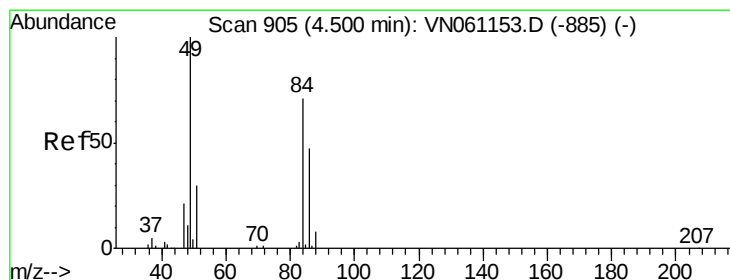
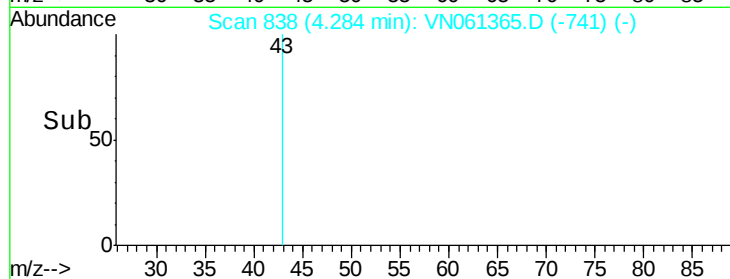
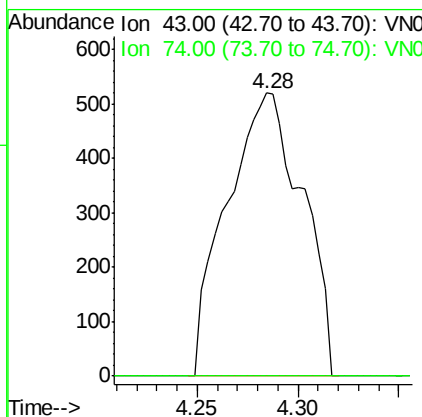
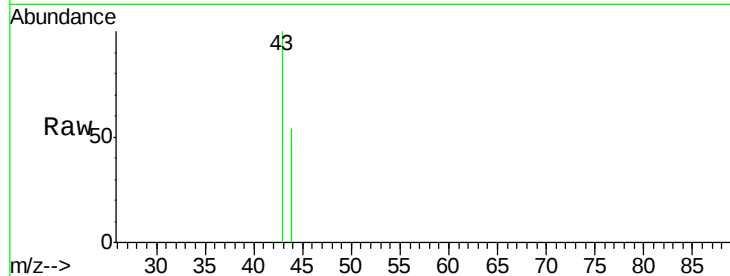




#18
Methvl Acetate
Concen: 1.342 ug/l
RT: 4.28 min Scan# 838
Delta R.T. 0.01 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

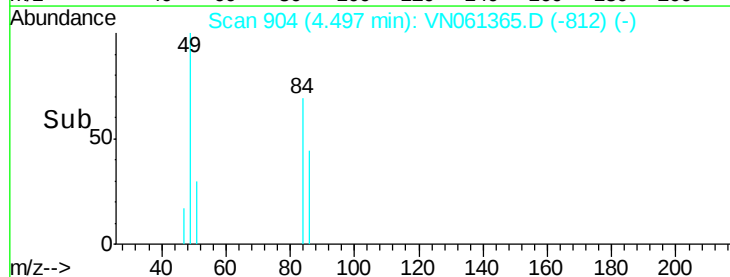
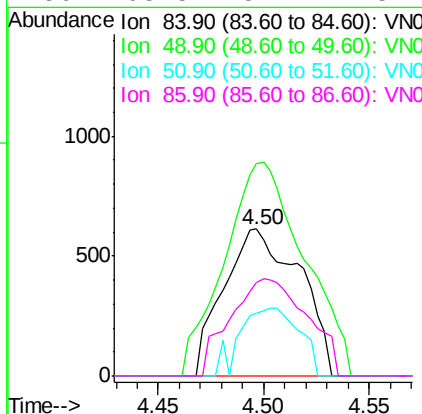
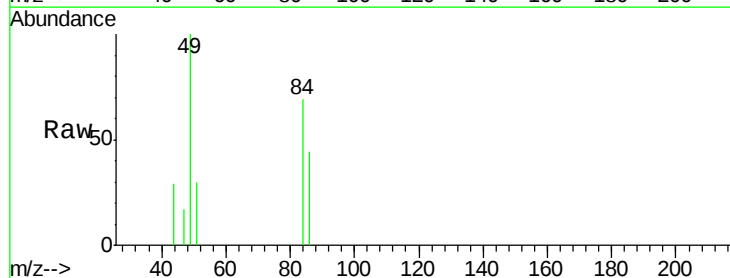
Instrument :
MSVOA_N
ClientSampleId :

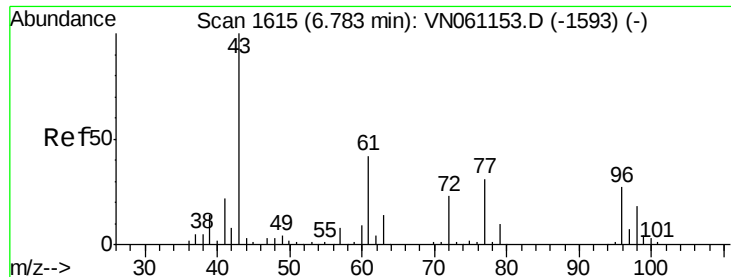
Tot Ion: 43 Resp: 1348
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 1.238 ug/l
RT: 4.50 min Scan# 904
Delta R.T. -0.00 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

Tgt Ion: 84 Resp: 1534
Ion Ratio Lower Upper
84 100
49 118.2 112.0 168.0
51 42.8 33.6 50.4
86 63.5 52.1 78.1





#25

2-Butanone

Concen: 2.529 ug/l

RT: 6.79 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

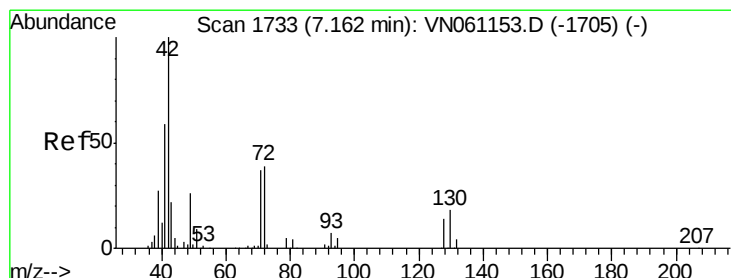
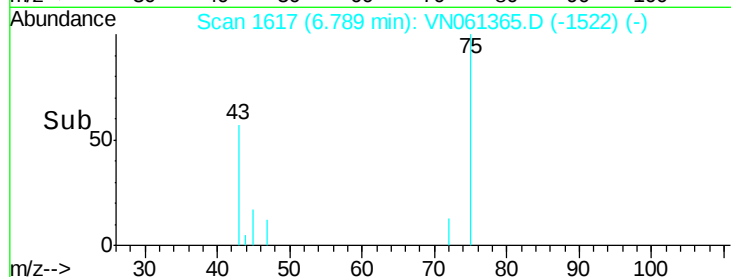
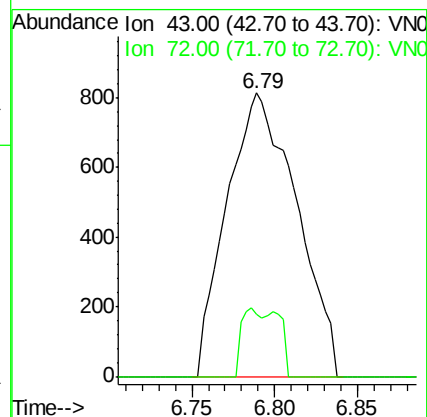
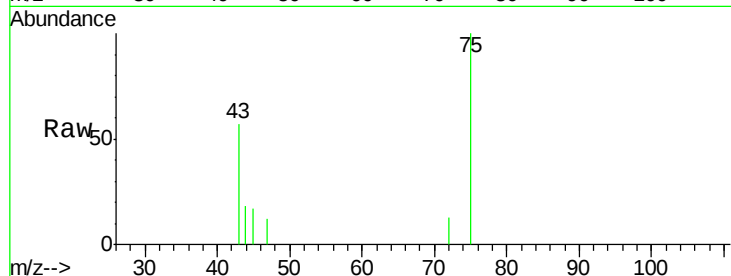
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2378

Ion Ratio Lower Upper

43 100

72 22.1 18.2 27.4



#29

Tetrahydrofuran

Concen: 0.711 ug/l

RT: 7.18 min Scan# 1739

Delta R.T. 0.02 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

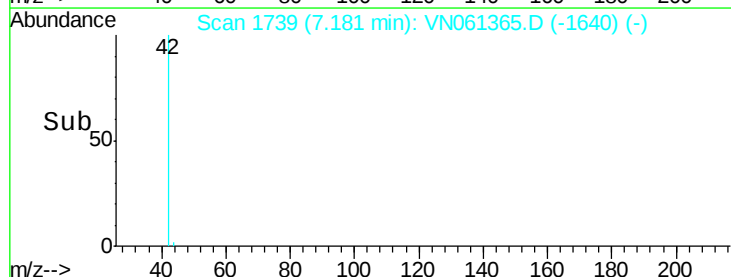
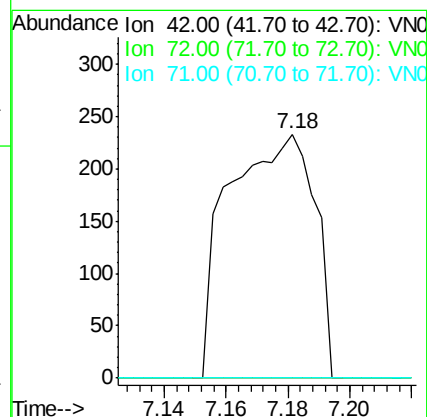
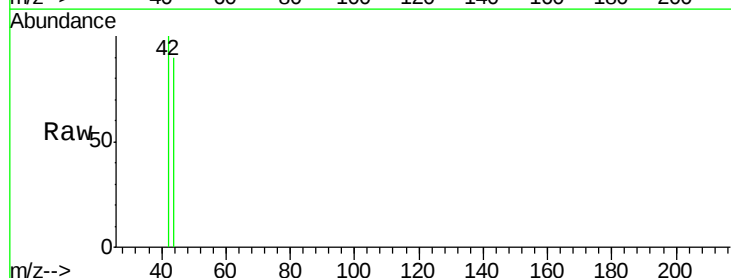
Tgt Ion: 42 Resp: 450

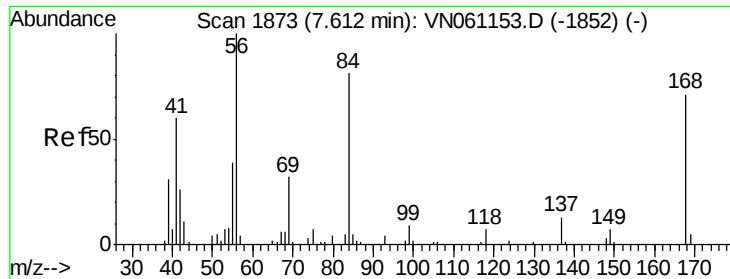
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 29.5 44.3#

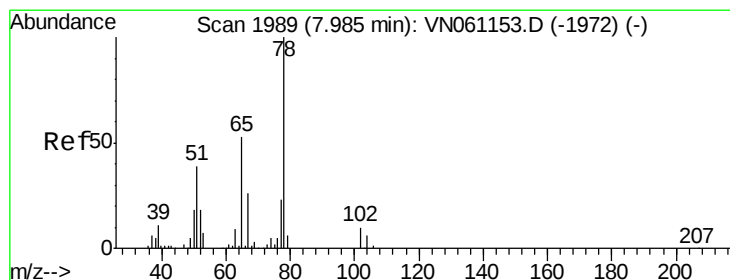
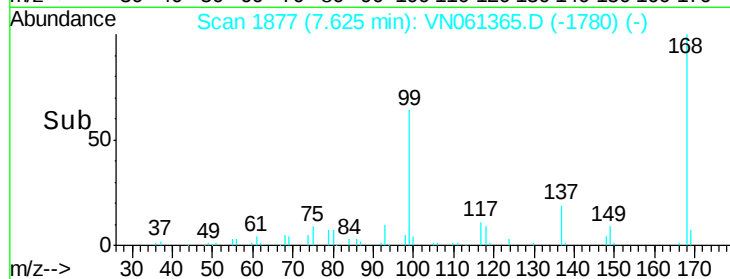
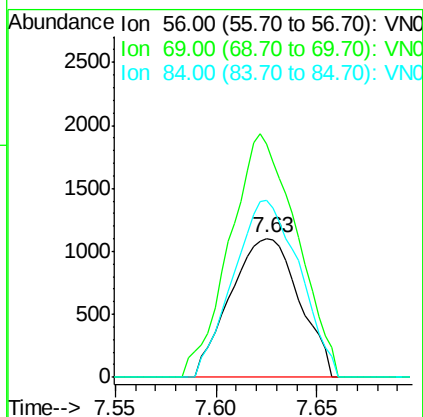
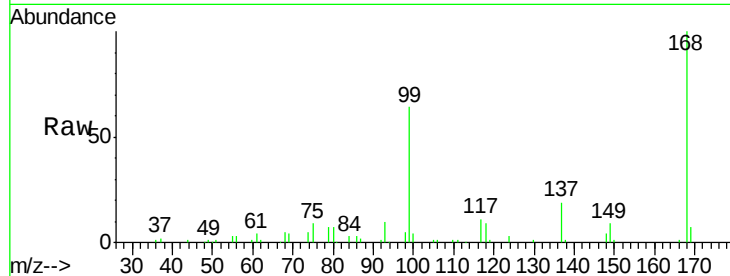




#31
Cyclohexane
Concen: 1.129 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

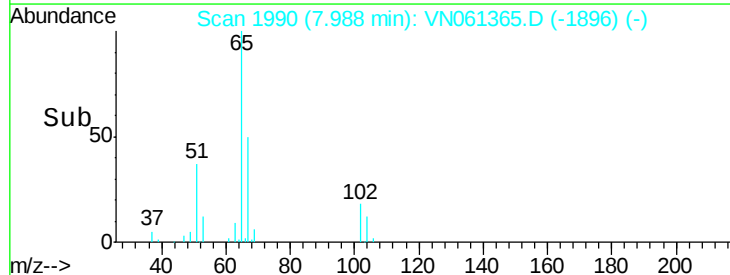
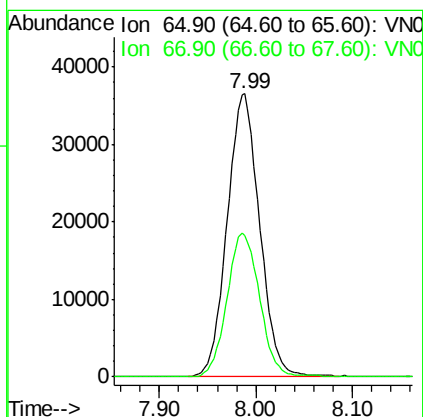
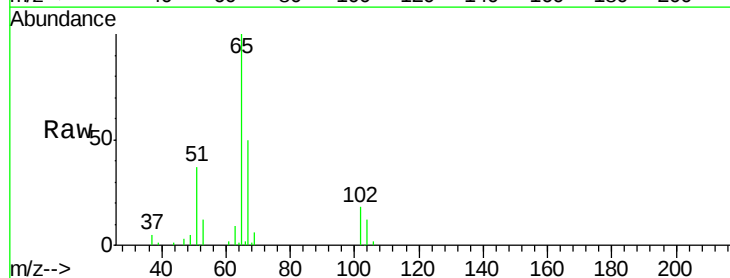
Instrument :
MSVOA_N
ClientSampled :

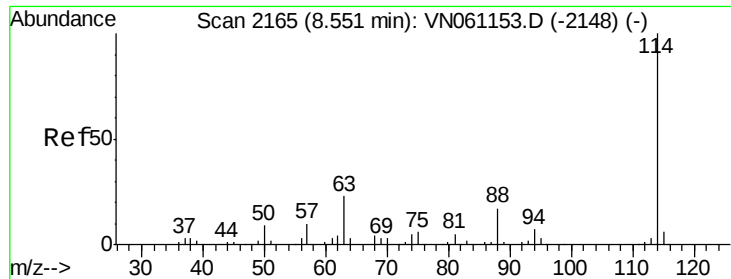
Tot Ion: 56 Resp: 2609
Ion Ratio Lower Upper
56 100
69 167.8 25.7 38.5#
84 127.2 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 53.693 ug/l
RT: 7.99 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

Tgt Ion: 65 Resp: 85310
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.6

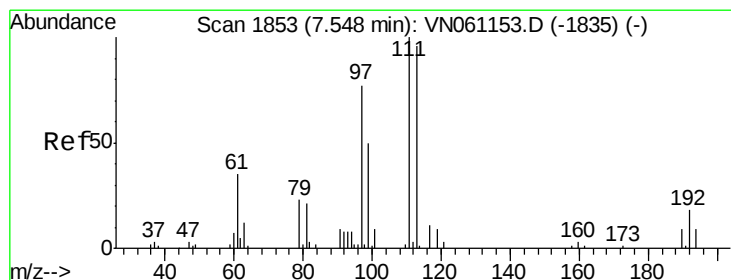
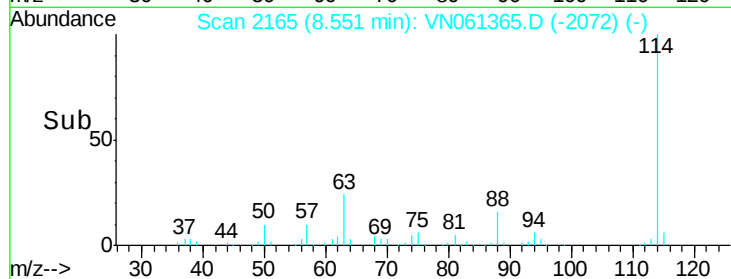
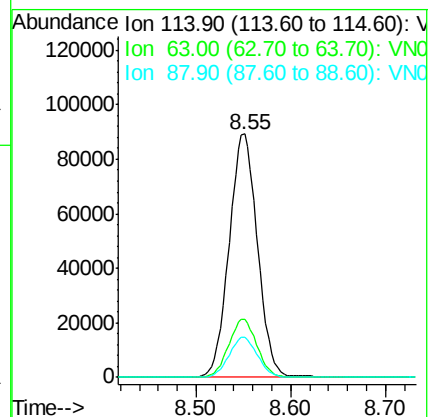
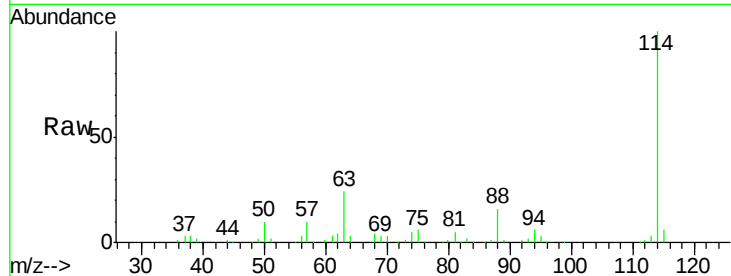




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

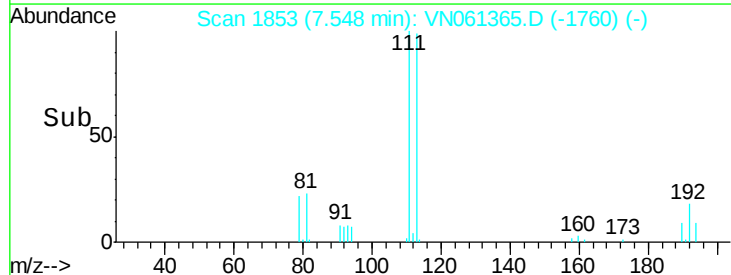
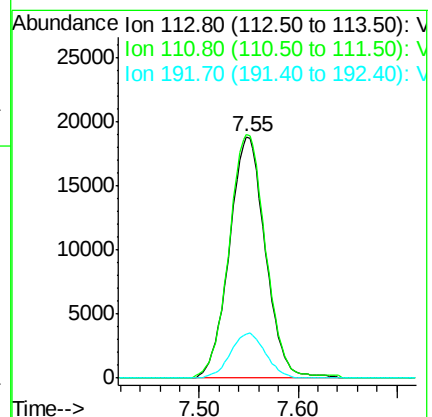
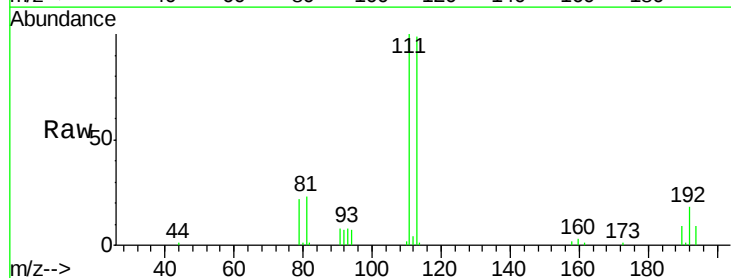
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 ClientSampleId :

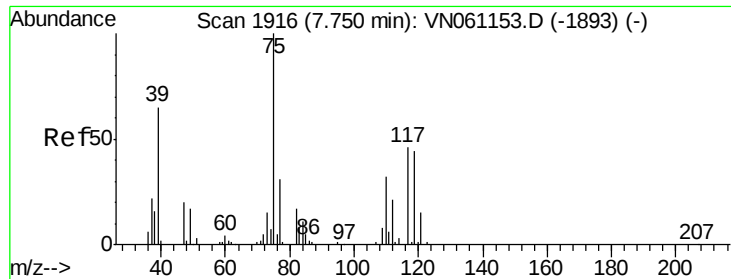
Tot Ion:114 Resp: 185856
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.6
 88 16.3 0.0 33.4



#35
 Dibromofluoromethane
 Concen: 43.351 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

Tgt Ion:113 Resp: 47643
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.9 124.3
 192 18.2 14.7 22.1

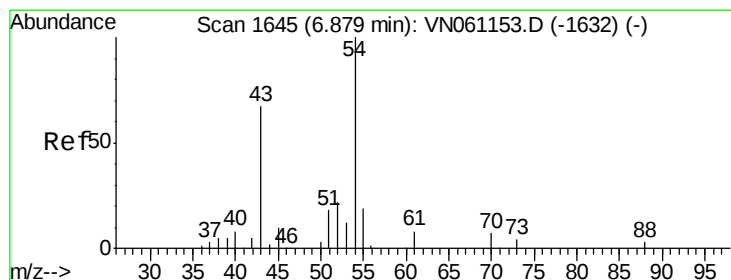
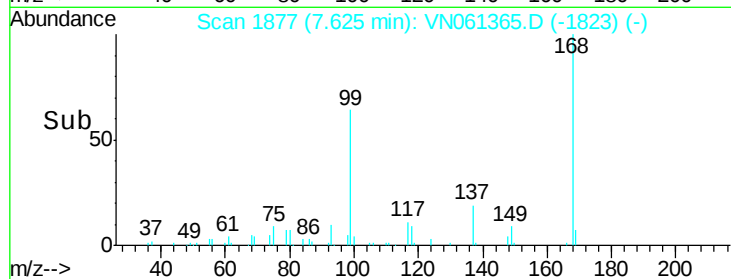
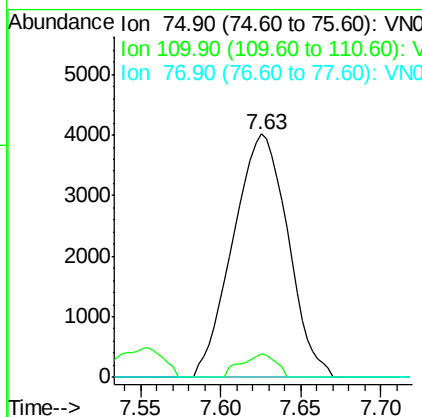
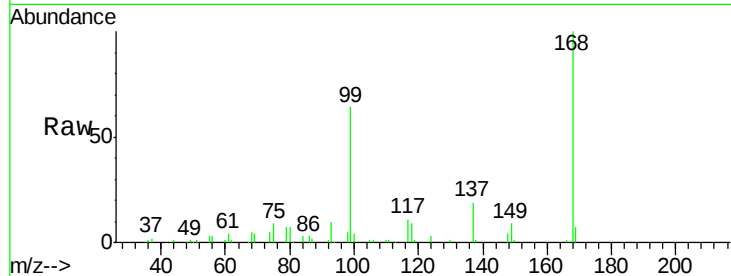




#36
 1,1-Dichloropropene
 Concen: 5.086 ug/l
 RT: 7.63 min Scan# 1877
 Delta R.T. -0.13 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

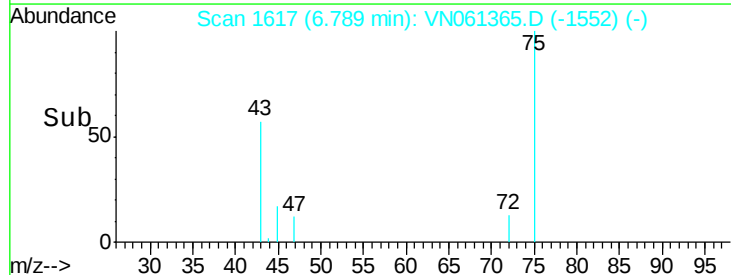
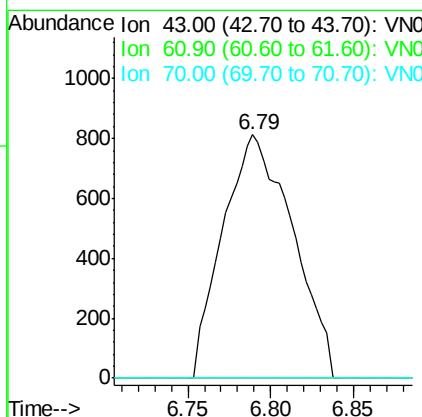
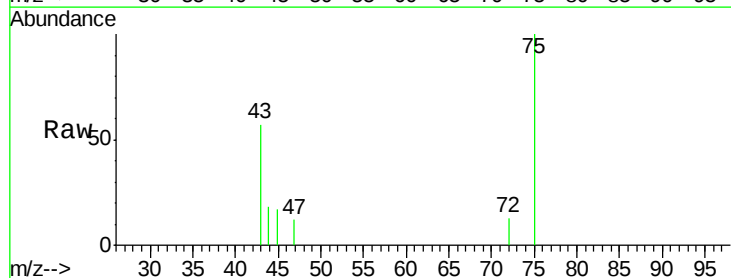
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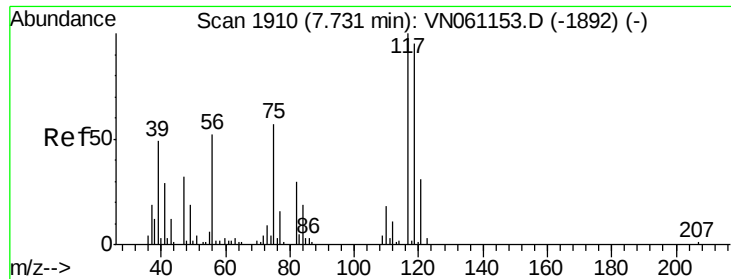
Tot Ion: 75 Resp: 9462
 Ion Ratio Lower Upper
 75 100
 110 6.1 16.0 48.0#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 1.090 ug/l
 RT: 6.79 min Scan# 1617
 Delta R.T. -0.09 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

Tgt Ion: 43 Resp: 2378
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 8.335 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

ClientSampled :

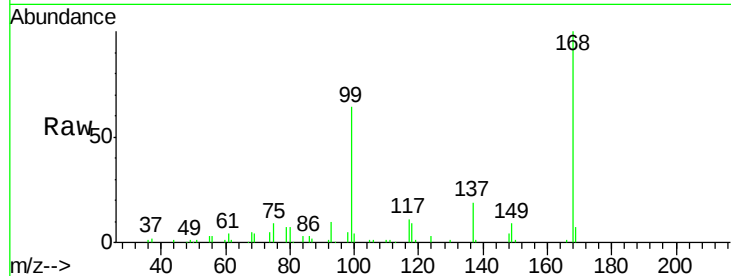
Tot Ion:117 Resp: 10760

Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.6#

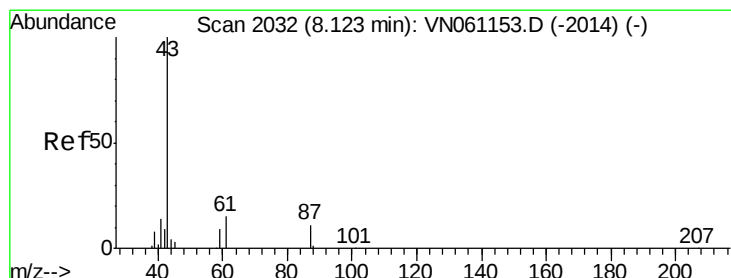
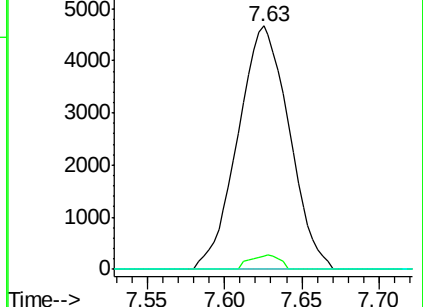
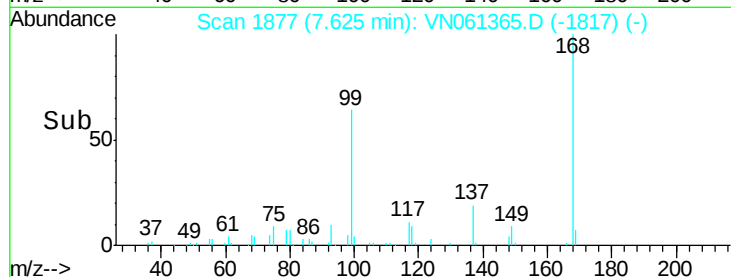
121 0.0 24.7 37.1#



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: 11.180 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

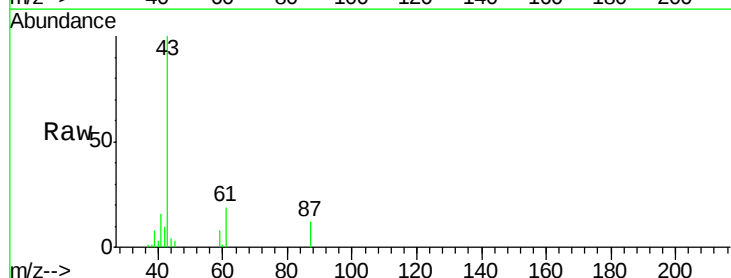
Tgt Ion: 43 Resp: 40471

Ion Ratio Lower Upper

43 100

61 17.9 19.5 29.3#

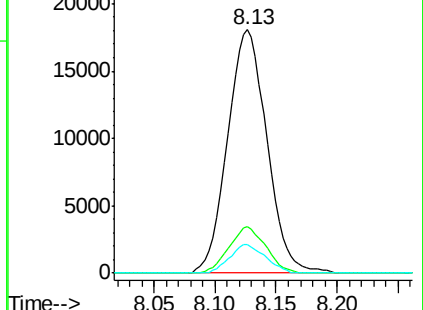
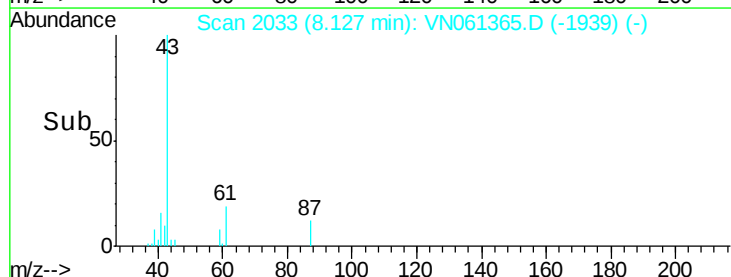
87 10.6 8.9 13.3

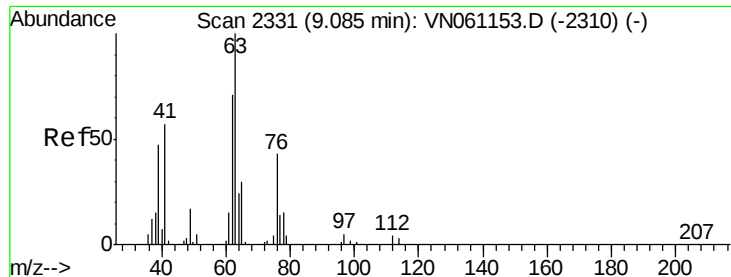


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.23 min Scan# 2377

Delta R.T. 0.15 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

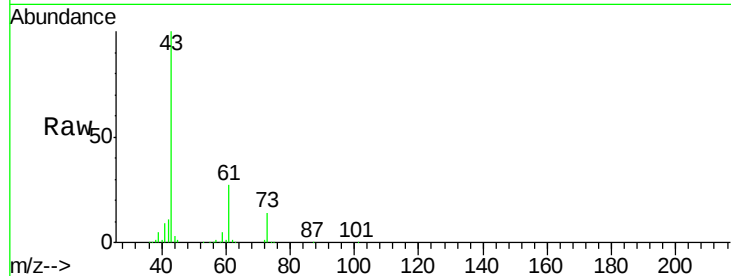
ClientSampleId :

Tot Ion: 63 Resp: 680

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

400

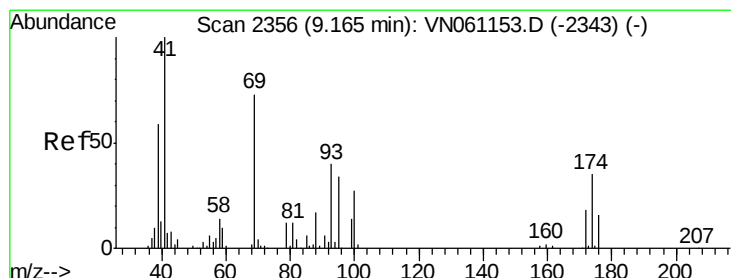
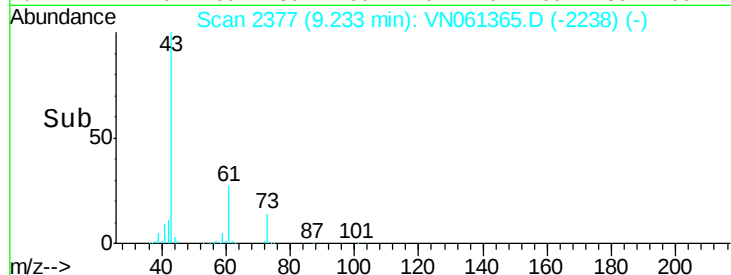
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 42.496 ug/l

RT: 9.24 min Scan# 2378

Delta R.T. 0.07 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

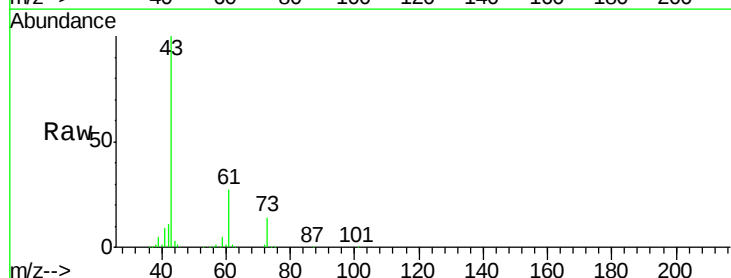
Tgt Ion: 41 Resp: 69415

Ion Ratio Lower Upper

41 100

69 0.0 60.3 90.5#

39 55.5 47.4 71.0



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

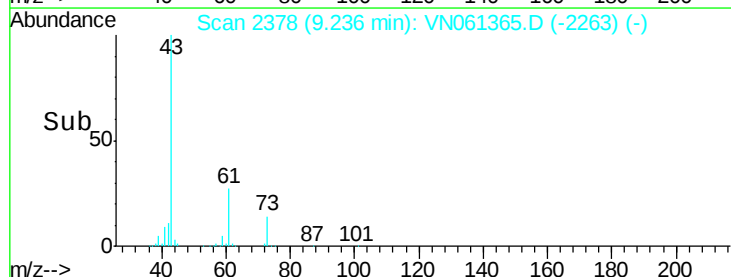
30000

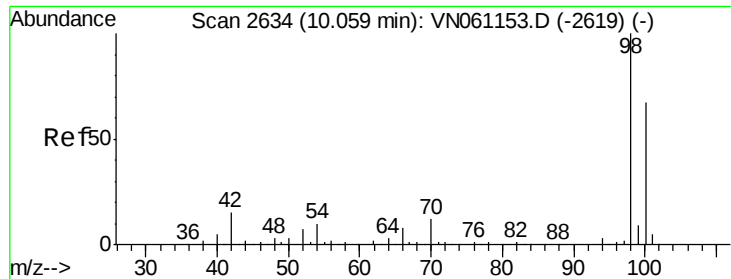
20000

10000

0

Time-->

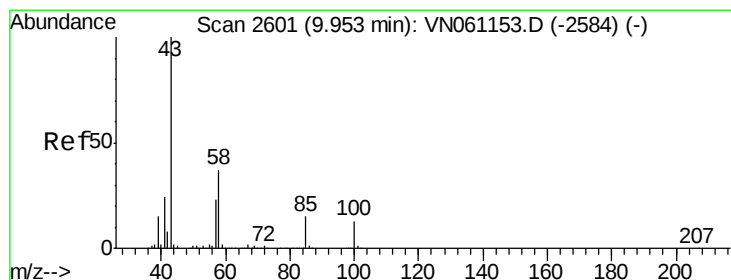
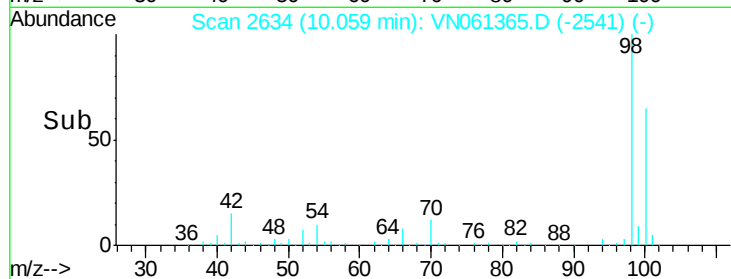
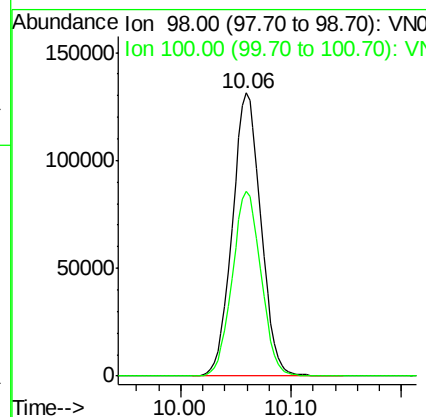
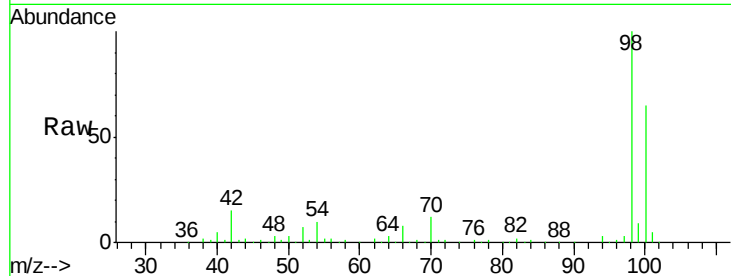




#50
Toluene-d8
Concen: 52.693 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

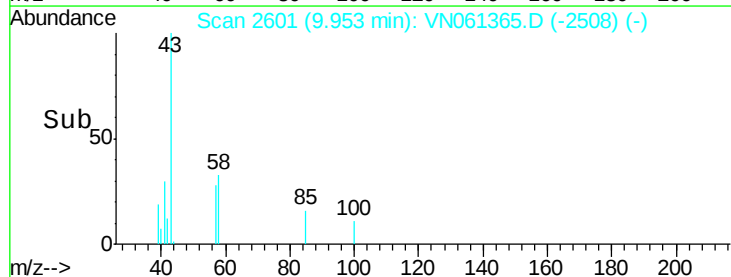
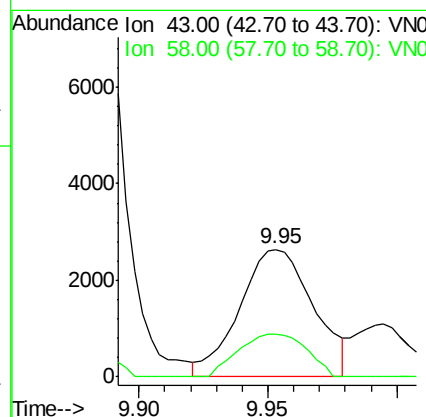
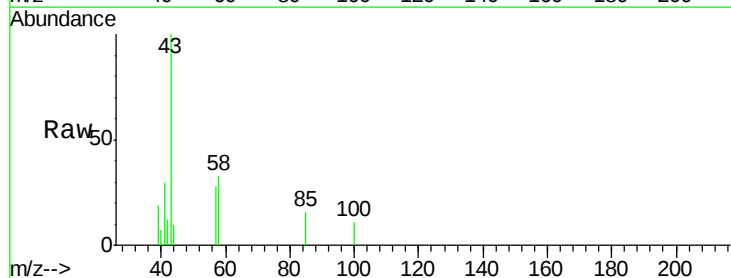
Instrument :
MSVOA_N
ClientSampled :

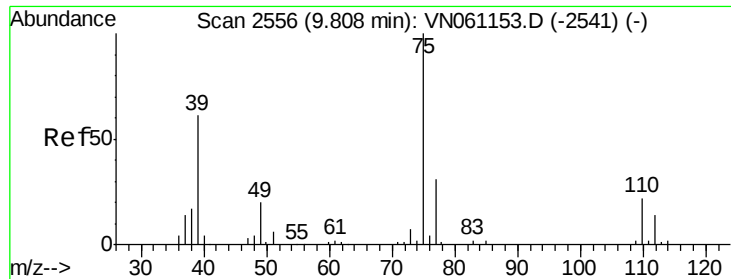
Tot Ion: 98 Resp: 236070
Ion Ratio Lower Upper
98 100
100 65.8 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 2.471 ug/l
RT: 9.95 min Scan# 2601
Delta R.T. 0.00 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

Tgt Ion: 43 Resp: 5265
Ion Ratio Lower Upper
43 100
58 30.8 29.1 43.7



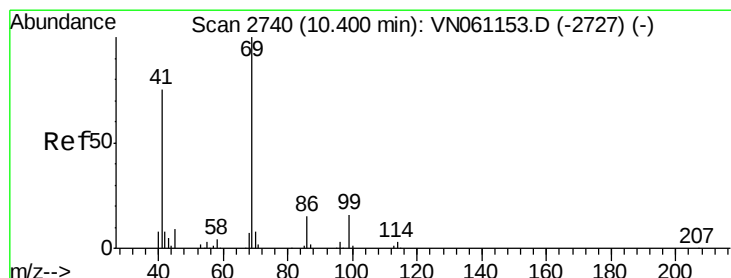
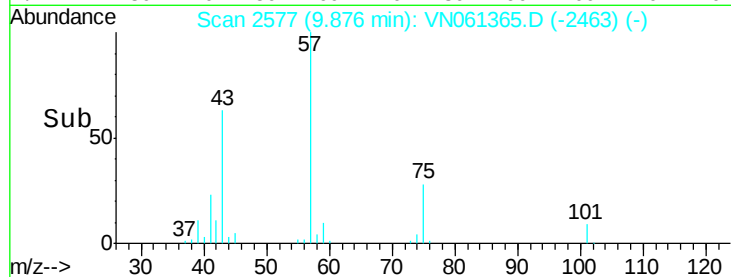
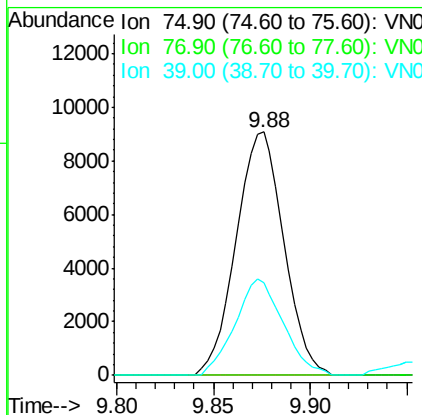
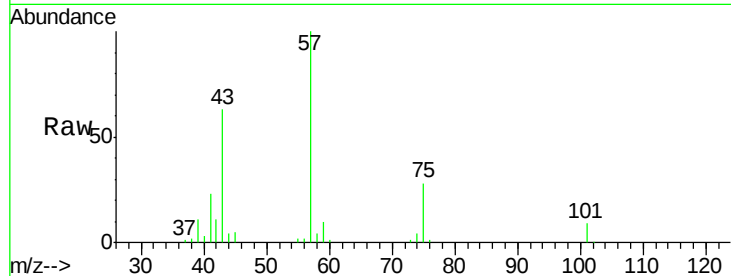


#54

cis-1,3-Dichloropropene
Concen: 6.651 ug/l
RT: 9.88 min Scan# 2577
Delta R.T. 0.07 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

Instrument :
MSVOA_N
ClientSampled :

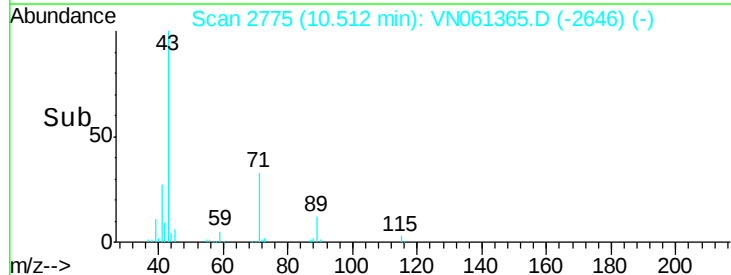
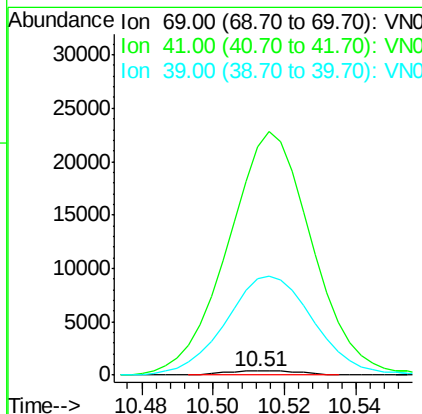
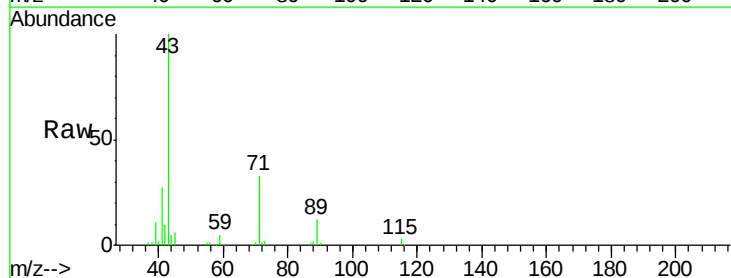
Tot Ion: 75 Resp: 15593
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 37.8 48.7 73.1#

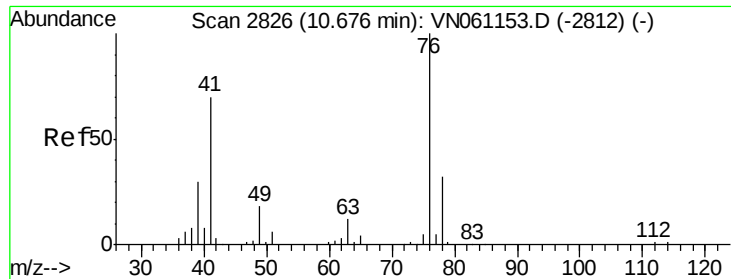


#56

Ethyl methacrylate
Concen: 2.965 ug/l
RT: 10.51 min Scan# 2775
Delta R.T. 0.11 min
Lab File: VN061365.D
Acq: 8 May 2020 16:32

Tgt Ion: 69 Resp: 583
Ion Ratio Lower Upper
69 100
41 6451.3 60.3 90.5#
39 2709.8 35.9 53.9#





#57

1,3-Dichloropropane

Concen: 1.168 ug/l

RT: 10.73 min Scan# 2844

Delta R.T. 0.06 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

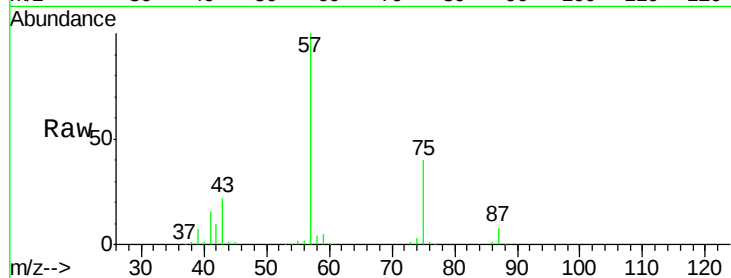
ClientSampleId :

Tot Ion: 76 Resp: 2735

Ion Ratio Lower Upper

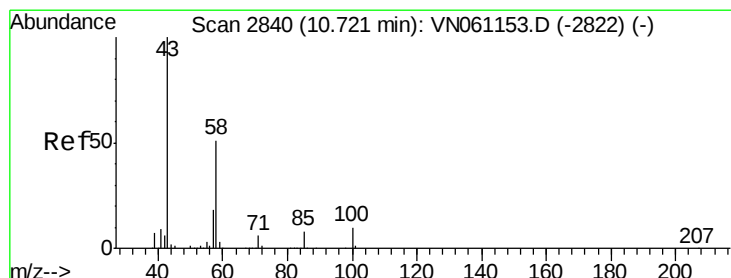
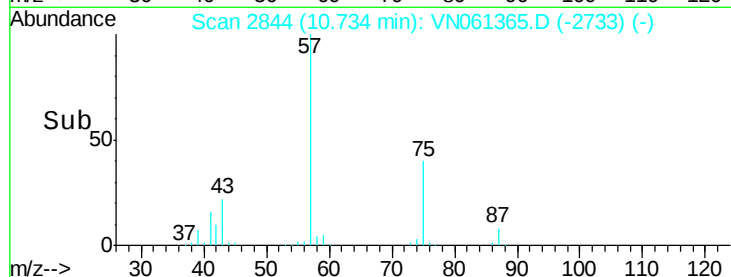
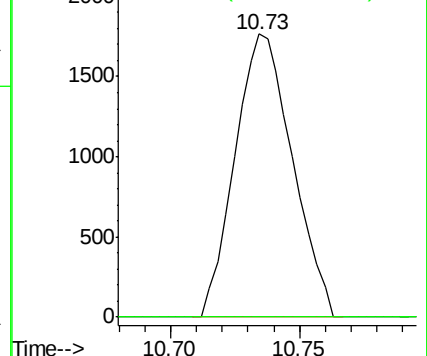
76 100

78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 29.149 ug/l

RT: 10.74 min Scan# 2845

Delta R.T. 0.02 min

Lab File: VN061365.D

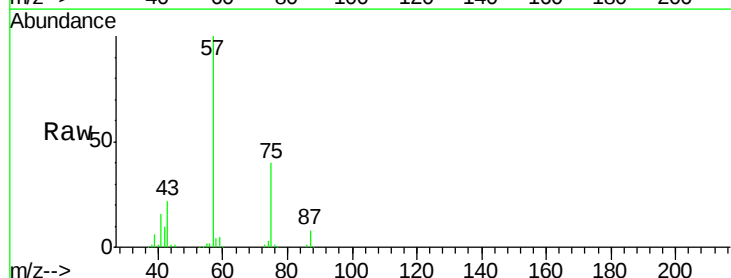
Acq: 8 May 2020 16:32

Tgt Ion: 43 Resp: 45185

Ion Ratio Lower Upper

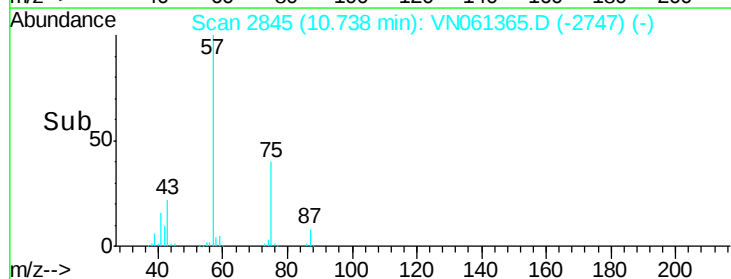
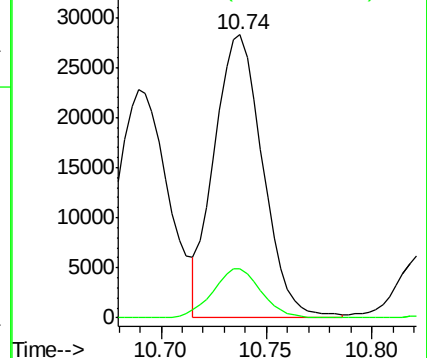
43 100

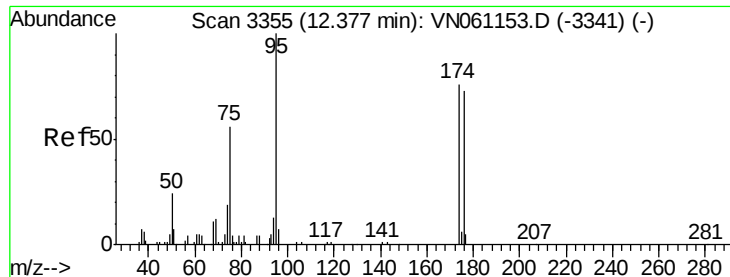
58 17.4 25.4 76.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.895 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

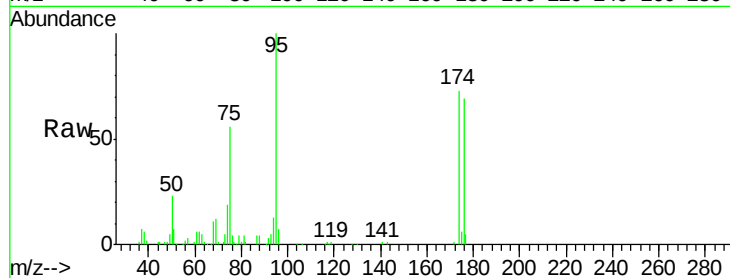
Tot Ion: 95 Resp: 87493

Ion Ratio Lower Upper

95 100

174 73.3 0.0 149.4

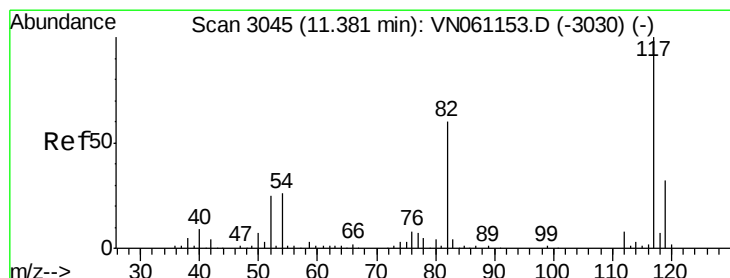
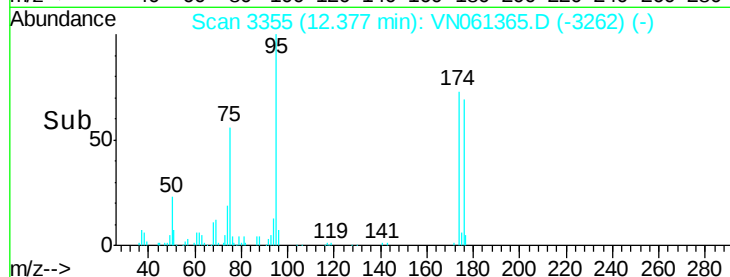
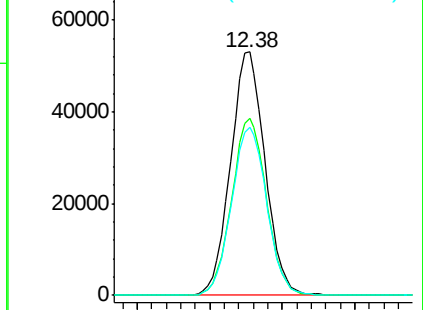
176 70.5 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061153.D (-3341) (-)

Ion 173.80 (173.50 to 174.50): VN061153.D (-3341) (-)

Ion 175.80 (175.50 to 176.50): VN061153.D (-3341) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

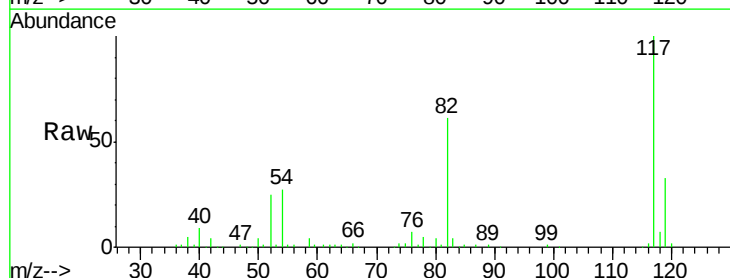
Tgt Ion: 117 Resp: 181766

Ion Ratio Lower Upper

117 100

82 61.3 47.8 71.8

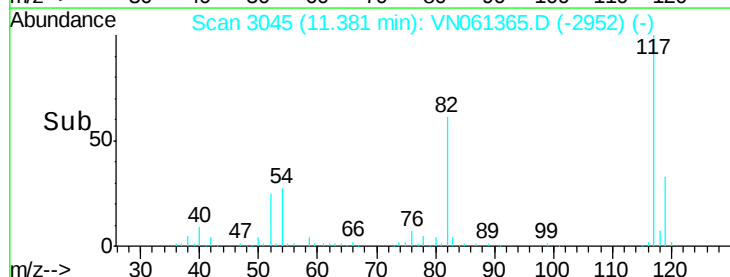
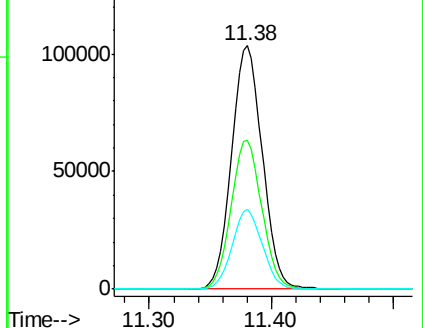
119 32.6 25.8 38.6

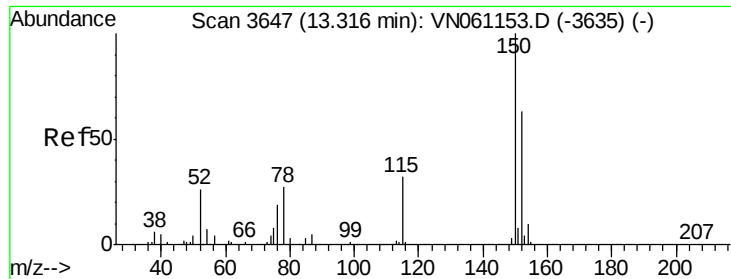


Abundance Ion 116.90 (116.60 to 117.60): VN061153.D (-3030) (-)

Ion 82.00 (81.70 to 82.70): VN061153.D (-3030) (-)

Ion 118.90 (118.60 to 119.60): VN061153.D (-3030) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

ClientSampled :

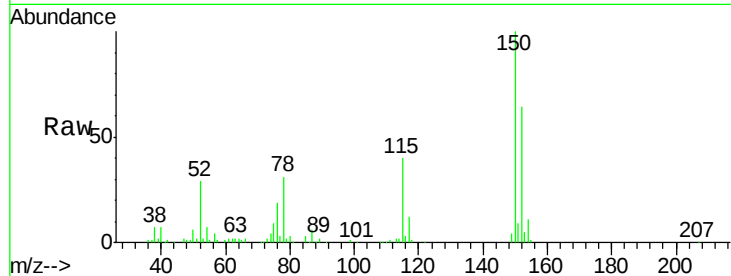
Tot Ion:152 Resp: 78545

Ion Ratio Lower Upper

152 100

115 62.0 31.0 93.0

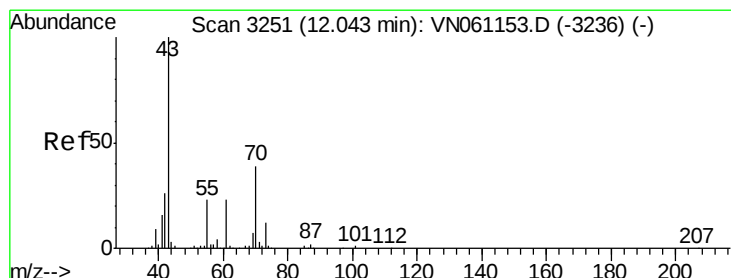
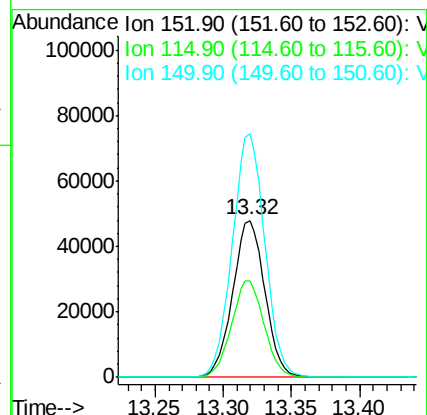
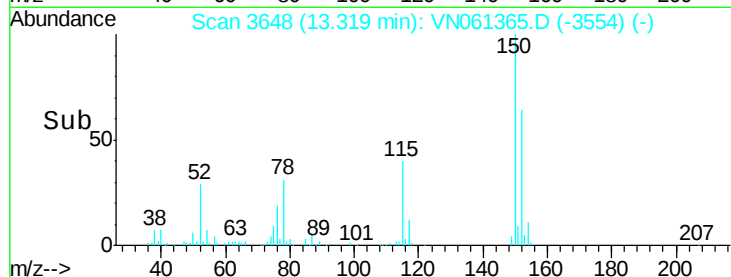
150 156.9 0.0 351.8



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: 0.763 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Tgt Ion: 43 Resp: 2231

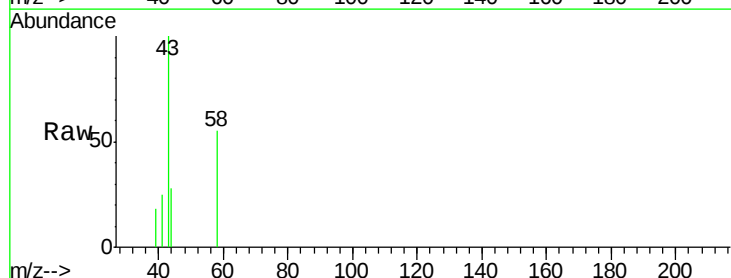
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

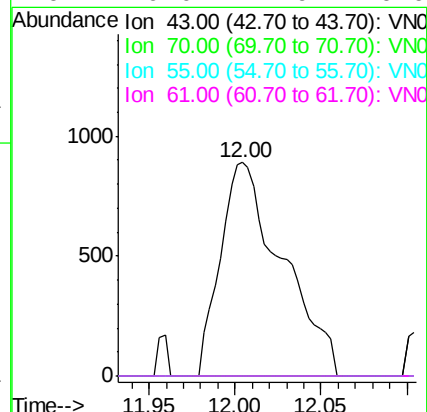
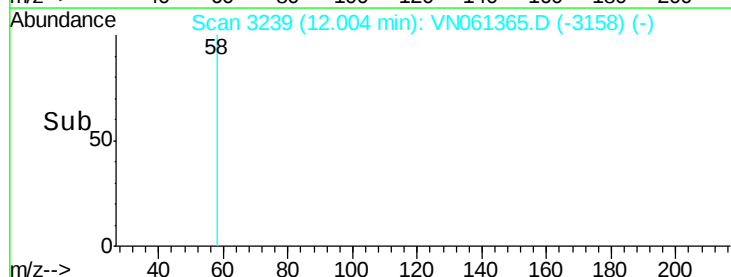


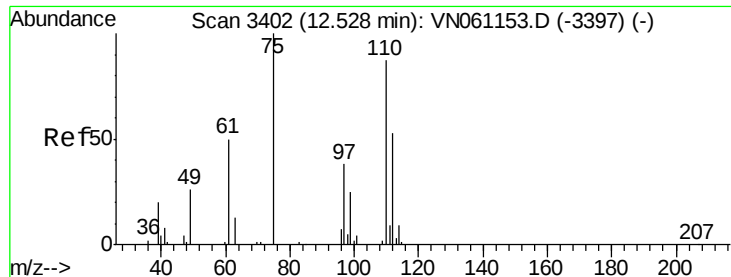
Abundance Ion 43.00 (42.70 to 43.70): V

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

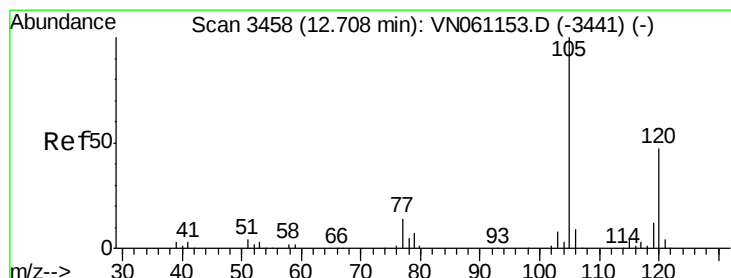
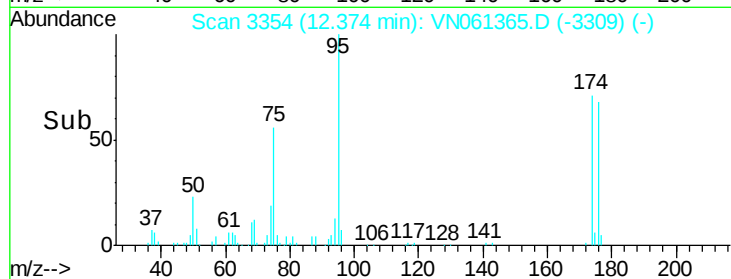
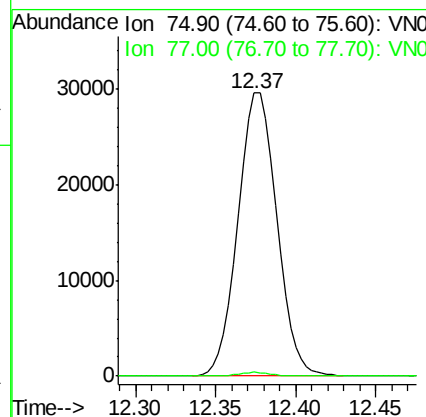
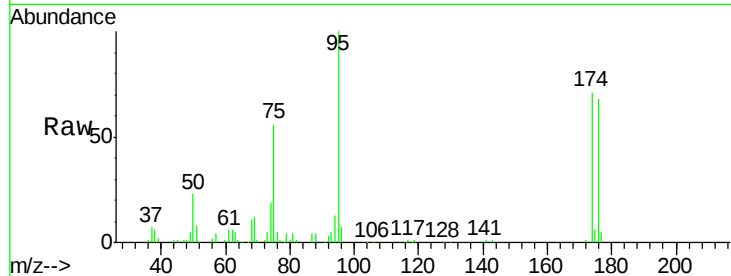




#76
 1,2,3-Trichloropropane
 Concen: 29.657 ug/l
 RT: 12.37 min Scan# 3354
 Delta R.T. -0.15 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

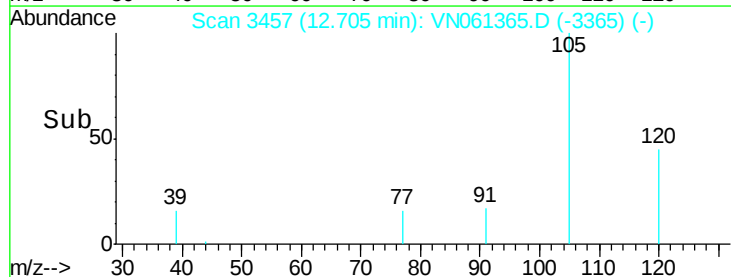
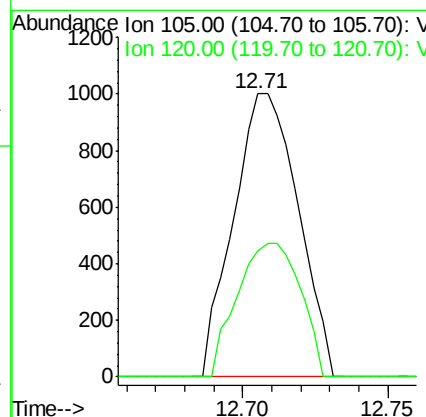
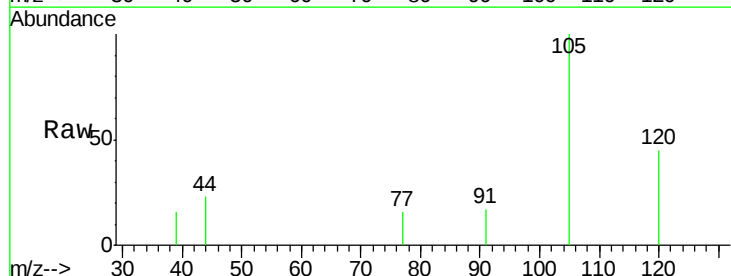
Instrument :
 MSVOA_N
 ClientSampled :

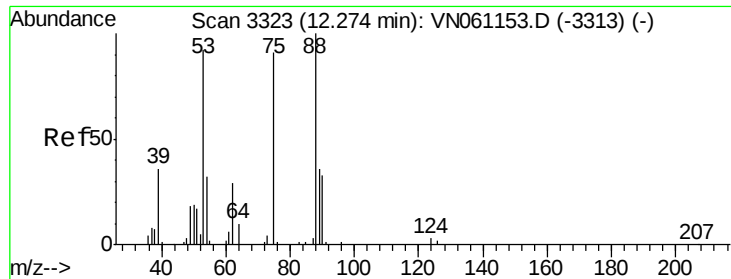
Tot Ion: 75 Resp: 49110
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.325 ug/l
 RT: 12.71 min Scan# 3457
 Delta R.T. -0.00 min
 Lab File: VN061365.D
 Acq: 8 May 2020 16:32

Tgt Ion:105 Resp: 1551
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 75.313 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.10 min

Lab File: VN061365.D

Acq: 8 May 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

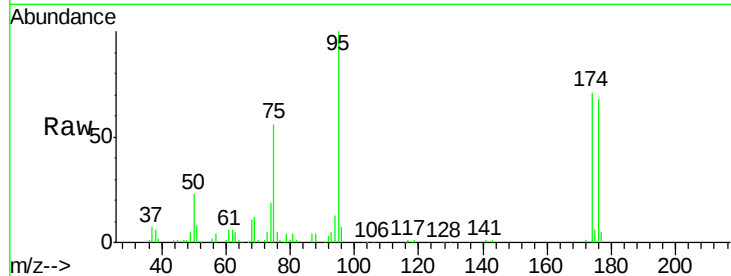
Tot Ion: 75 Resp: 49110

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

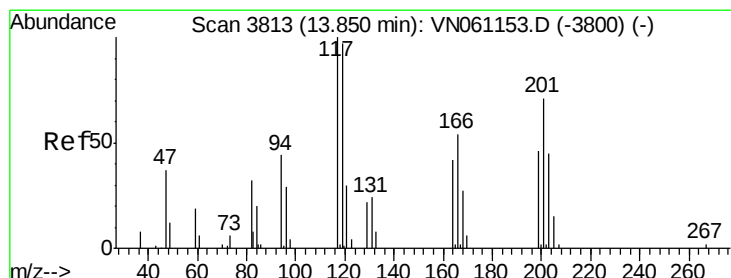
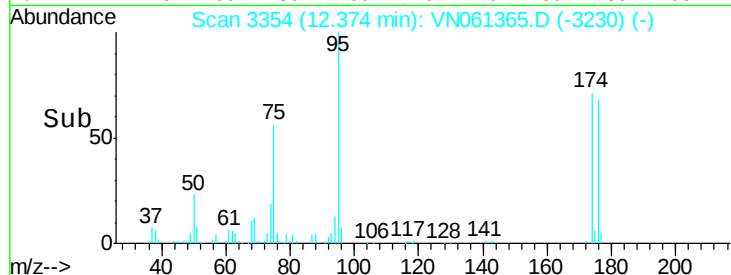
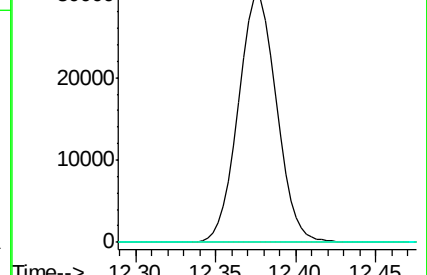
89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN061153.D (-3313) (-)

Ion 53.00 (52.70 to 53.70): VN061153.D (-3313) (-)

Ion 88.90 (88.60 to 89.60): VN061153.D (-3313) (-)



#90

Hexachloroethane

Concen: 7.885 ug/l

RT: 13.97 min Scan# 3850

Delta R.T. 0.12 min

Lab File: VN061365.D

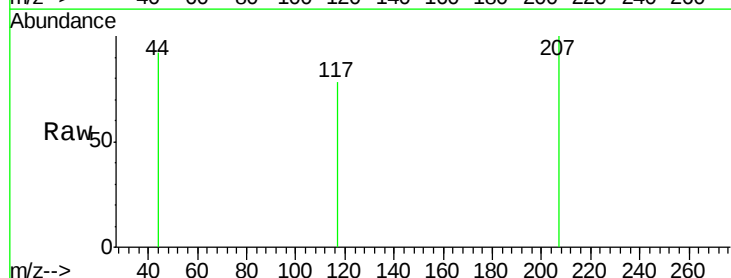
Acq: 8 May 2020 16:32

Tgt Ion: 117 Resp: 158

Ion Ratio Lower Upper

117 100

201 0.0 35.5 106.7#



Abundance Ion 116.80 (116.50 to 117.50): VN061153.D (-3800) (-)

Ion 200.70 (200.40 to 201.40): VN061153.D (-3800) (-)

