

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060991.D
 Acq On : 16 Apr 2020 2:49
 Operator : JC/MD
 Sample : L2278-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:44:29 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	144454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	246304	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	234200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	107698	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	96854	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
35) Dibromofluoromethane	7.56	113	73565	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.08	98	307621	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.39	95	119248	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	

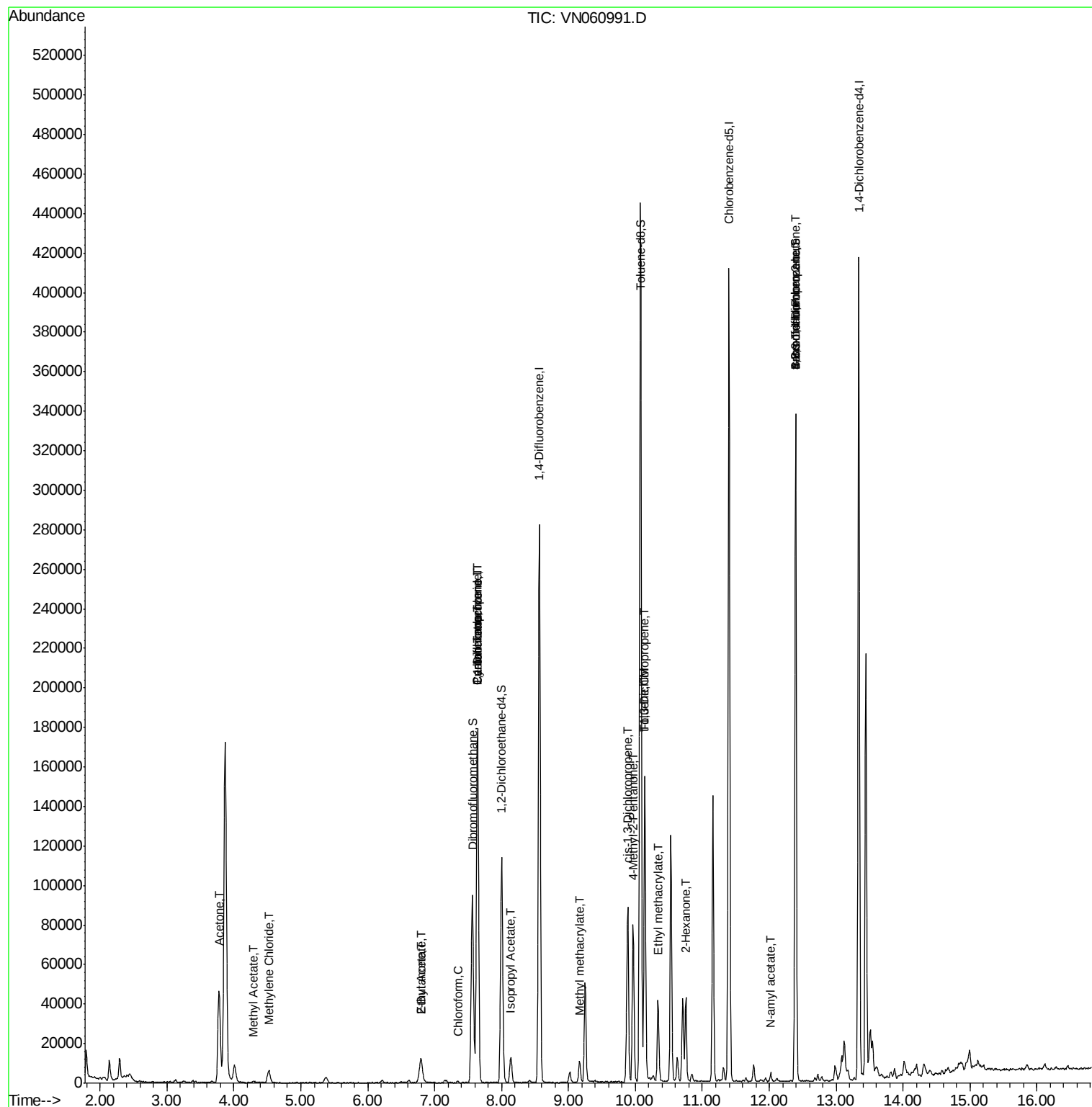
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	82225	117.058	ug/l	97
18) Methyl Acetate	4.29	43	1758	0.889	ug/l #	54
20) Methylene Chloride	4.53	84	5055	2.925	ug/l	95
25) 2-Butanone	6.80	43	22352	19.665	ug/l	97
30) Chloroform	7.35	83	974	0.321	ug/l	97
31) Cyclohexane	7.64	56	3409	1.067	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11701	4.906	ug/l #	49
37) Ethyl Acetate	6.80	43	22352	8.674	ug/l #	70
38) Carbon Tetrachloride	7.64	117	13337	6.239	ug/l #	16
43) Isopropyl Acetate	8.14	43	15781	3.713	ug/l #	90
48) Methyl methacrylate	9.16	41	2323	1.228	ug/l #	27
51) 4-Methyl-2-Pentanone	9.97	43	55927	23.125	ug/l	99
52) Toluene	10.14	92	66468	15.287	ug/l	99
53) t-1,3-Dichloropropene	10.14	75	617	0.225	ug/l #	1
54) cis-1,3-Dichloropropene	9.89	75	11061	3.678	ug/l #	63
56) Ethyl methacrylate	10.34	69	6637	2.545	ug/l #	64
59) 2-Hexanone	10.75	43	6316	3.625	ug/l #	60
71) Bromoform	12.40	173	247	1.851	ug/l #	1
74) N-amyl acetate	12.02	43	3181	0.852	ug/l #	47
76) 1,2,3-Trichloropropane	12.39	75	59497	25.602	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	59497	65.754	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: VN060991.D

Acq: 16 Apr 2020 2:49

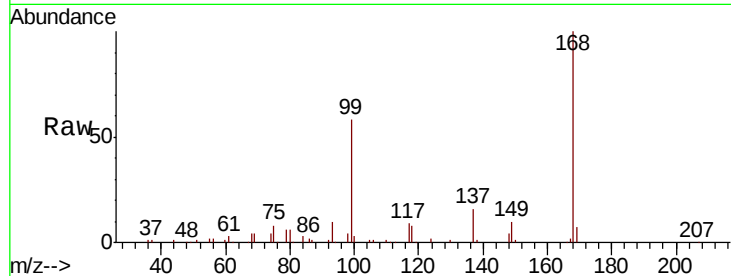
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 144454

Ion Ratio Lower Upper

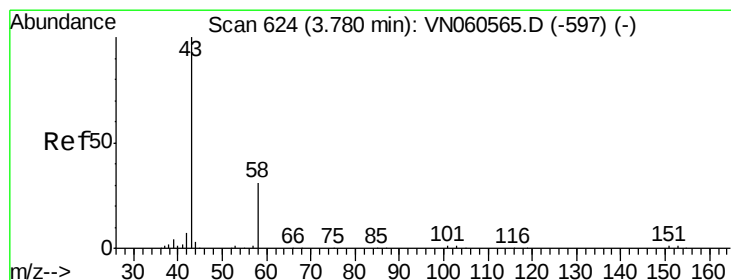
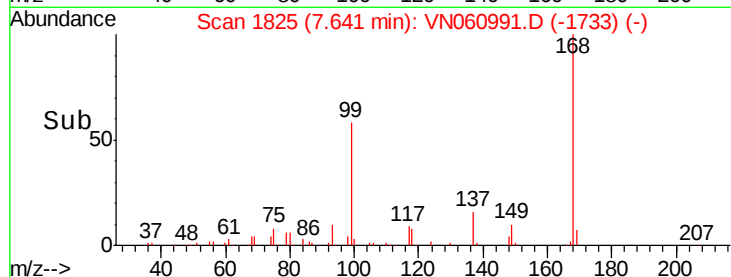
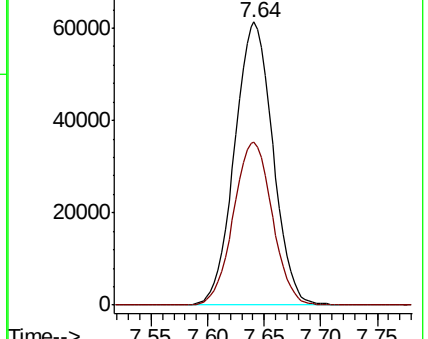
168 100

99 57.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 117.058 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060991.D

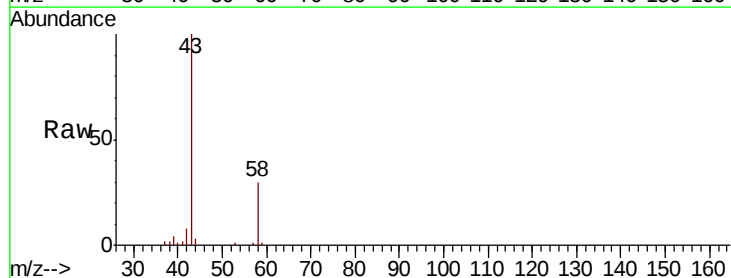
Acq: 16 Apr 2020 2:49

Tgt Ion: 43 Resp: 82225

Ion Ratio Lower Upper

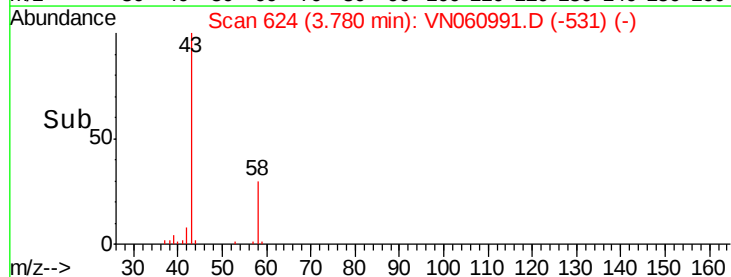
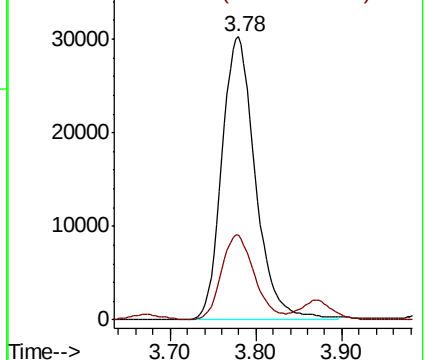
43 100

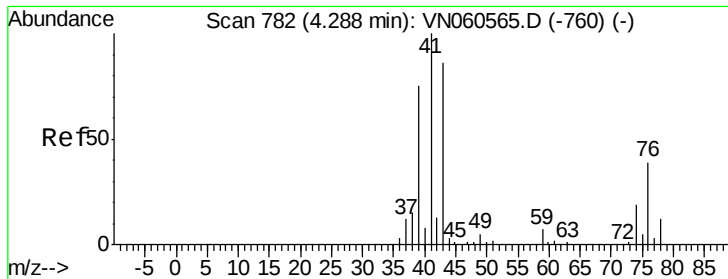
58 29.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

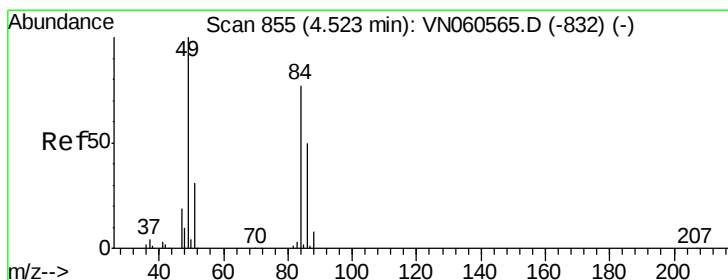
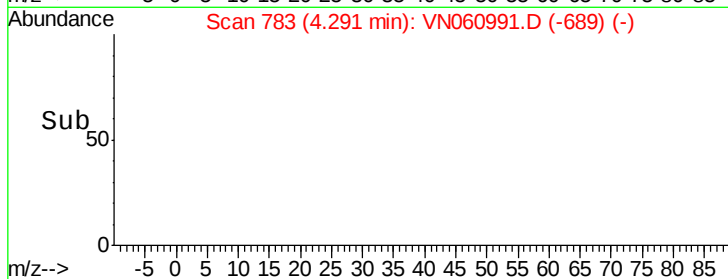
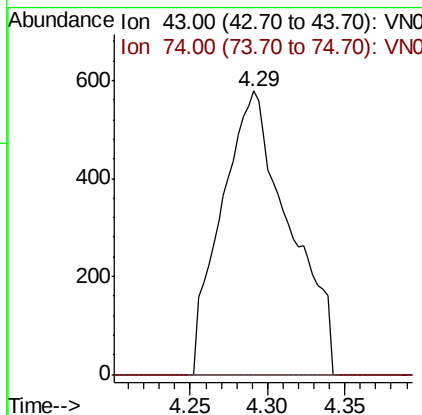
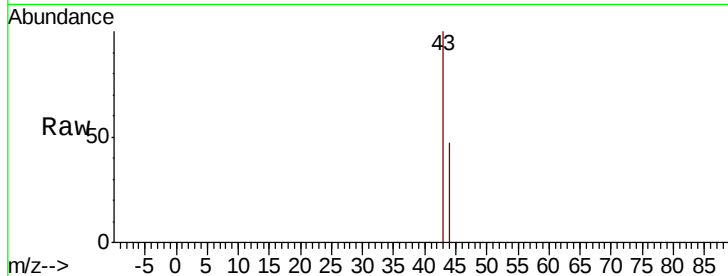




#18
Methyl Acetate
Concen: 0.889 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

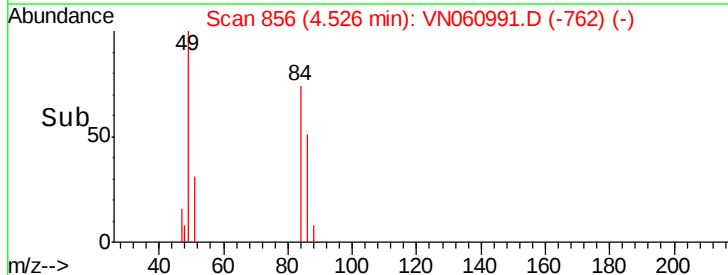
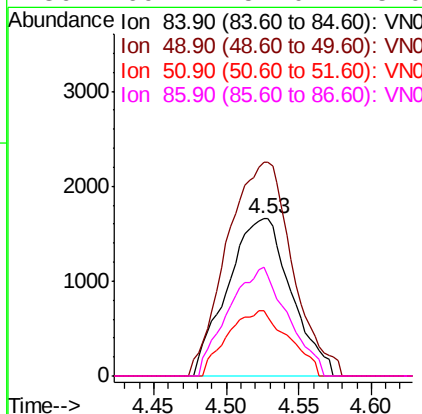
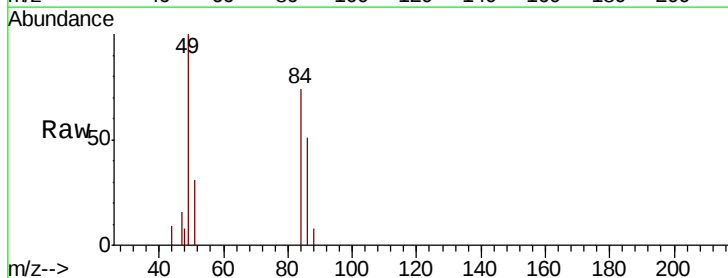
Instrument :
MSVOA_N
ClientSampled :

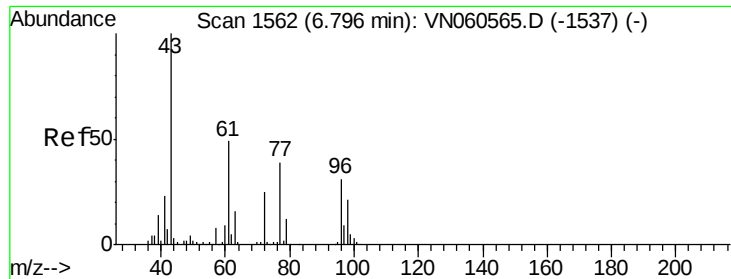
Tot Ion: 43 Resp: 1758
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.925 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

Tgt Ion: 84 Resp: 5055
Ion Ratio Lower Upper
84 100
49 135.9 103.3 154.9
51 41.8 31.6 47.4
86 69.1 52.0 78.0





#25

2-Butanone

Concen: 19.665 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

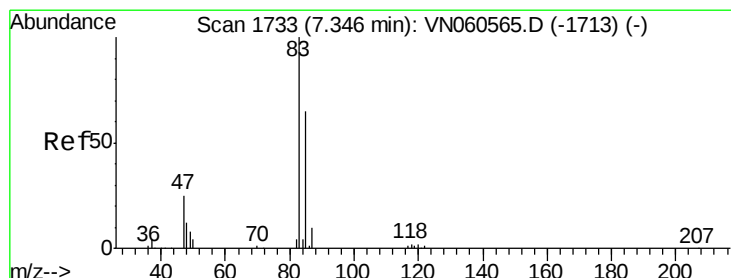
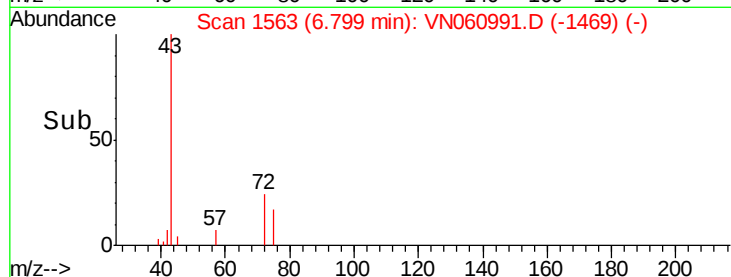
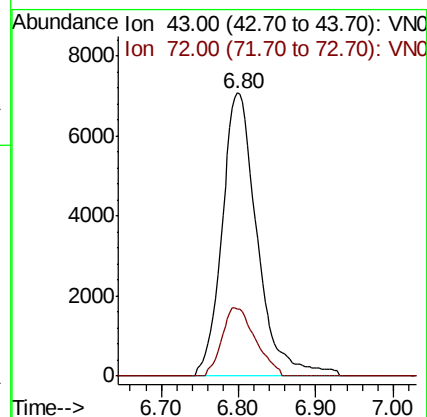
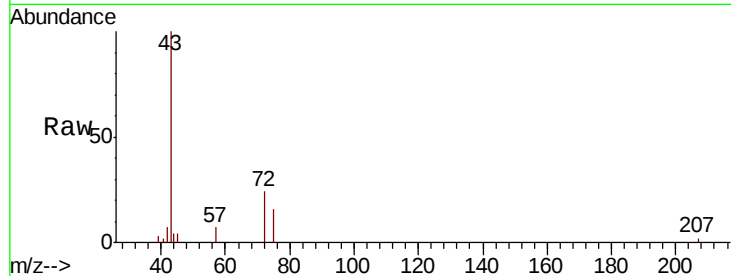
ClientSampled :

Tot Ion: 43 Resp: 22352

Ion Ratio Lower Upper

43 100

72 23.9 20.4 30.6



#30

Chloroform

Concen: 0.321 ug/l

RT: 7.35 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VN060991.D

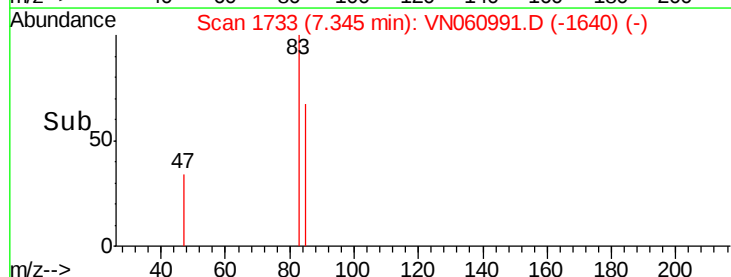
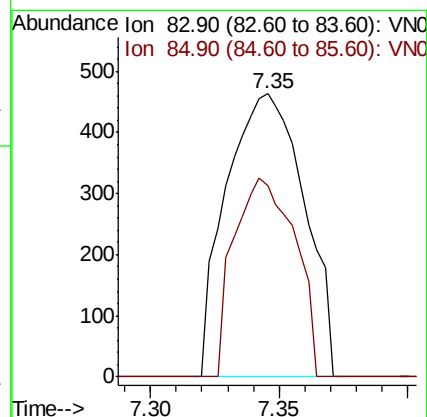
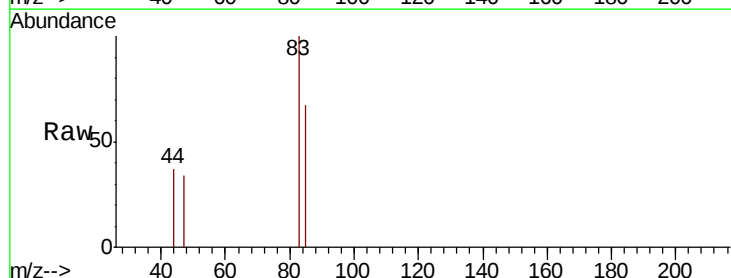
Acq: 16 Apr 2020 2:49

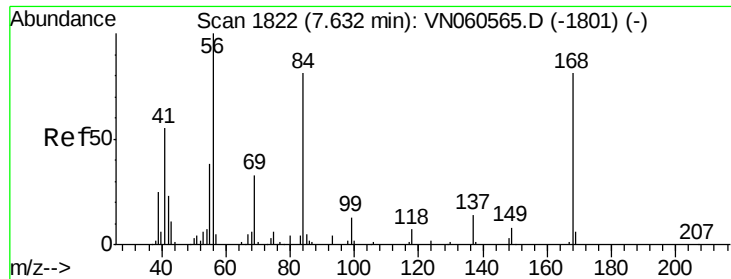
Tgt Ion: 83 Resp: 974

Ion Ratio Lower Upper

83 100

85 67.4 51.8 77.8

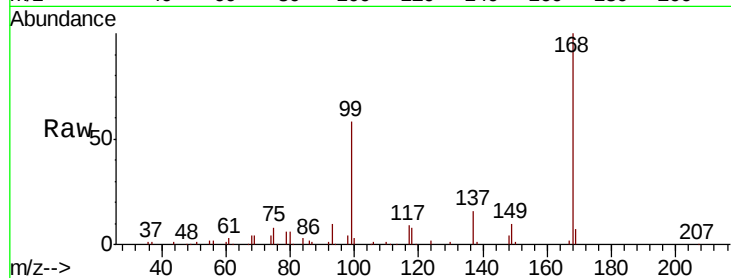




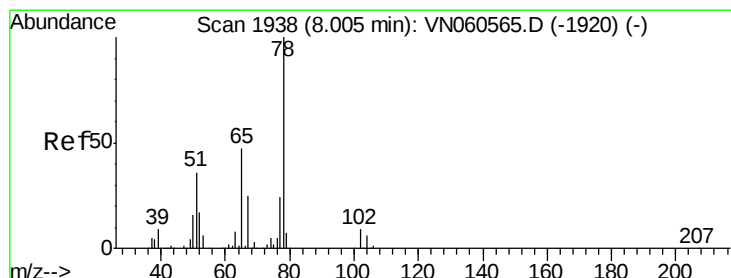
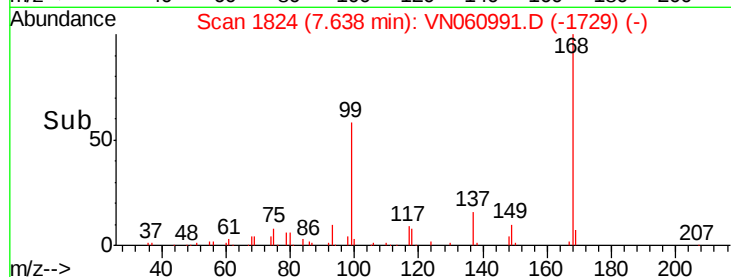
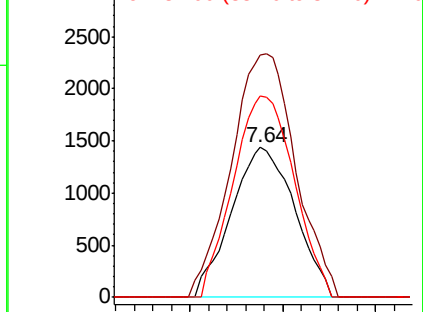
#31
Cyclohexane
Concen: 1.067 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3409
Ion Ratio Lower Upper
56 100
69 161.5 26.6 40.0#
84 134.2 64.3 96.5#

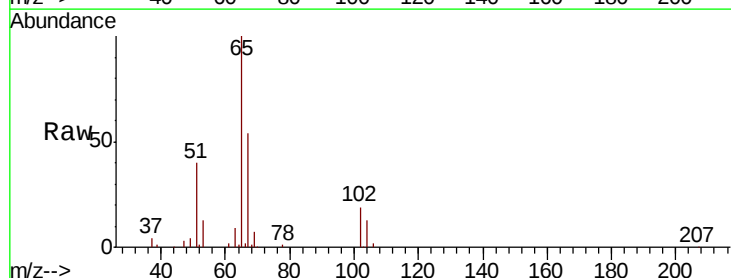


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

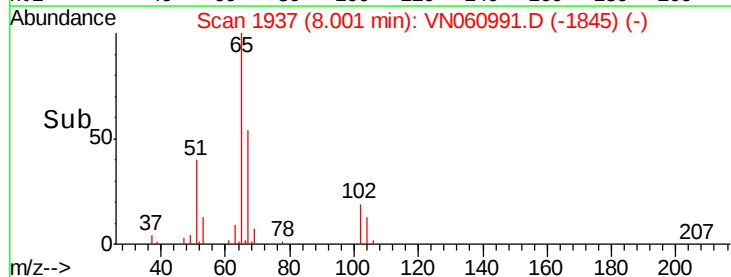
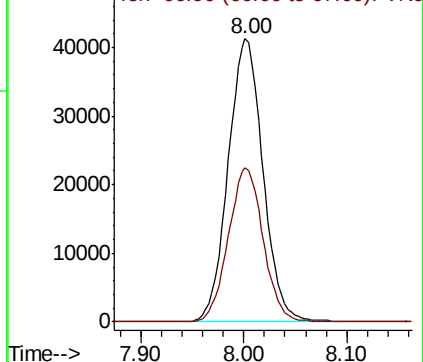


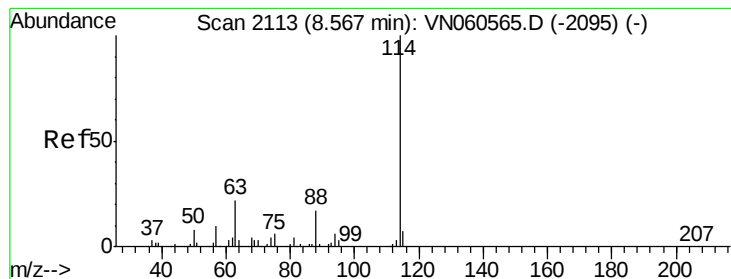
#33
1,2-Dichloroethane-d4
Concen: 48.842 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

Tgt Ion: 65 Resp: 96854
Ion Ratio Lower Upper
65 100
67 54.3 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: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

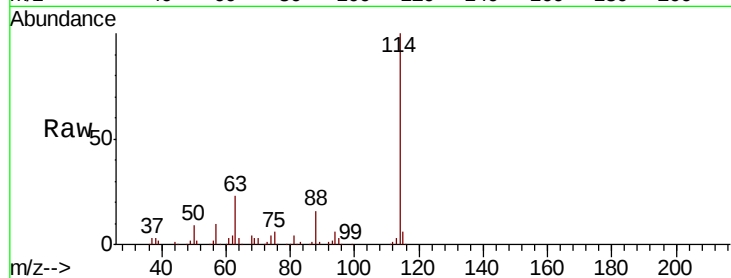
Tot Ion:114 Resp: 246304

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

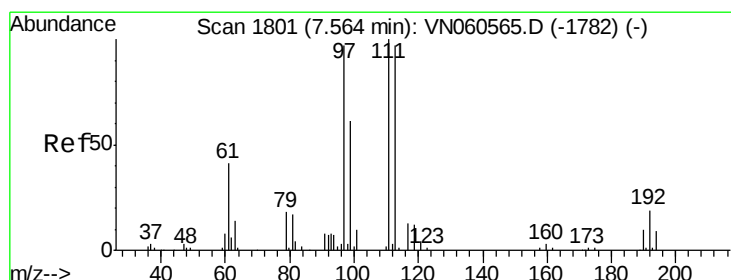
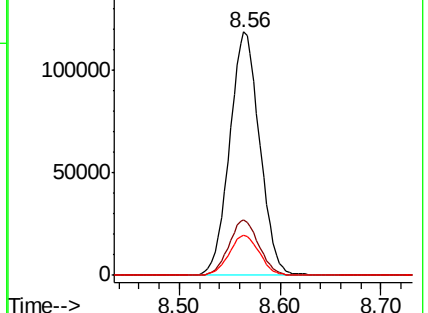
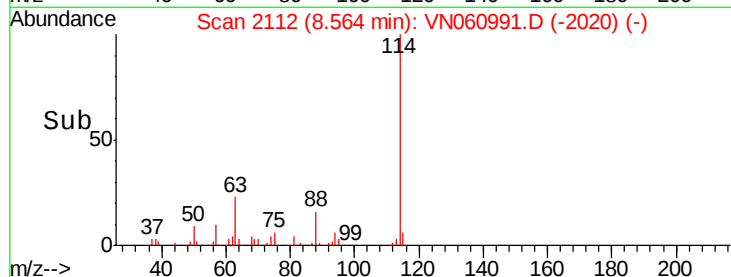
88 16.4 0.0 33.0



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: 49.395 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

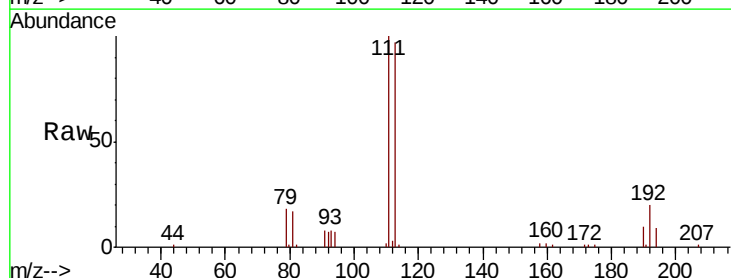
Tgt Ion:113 Resp: 73565

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

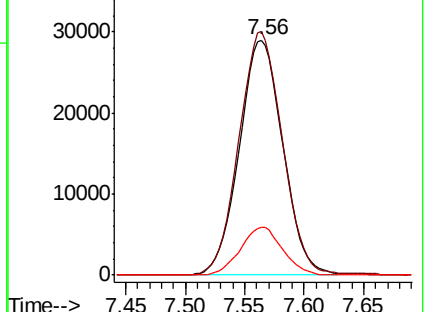
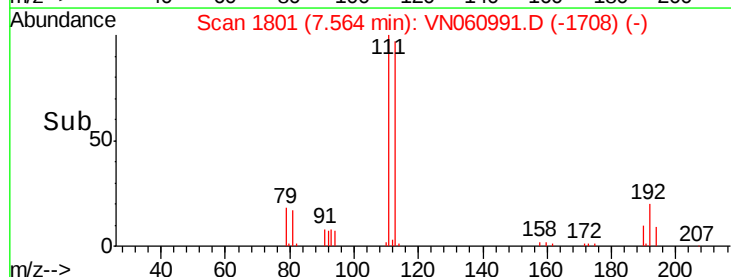
192 19.7 15.8 23.8

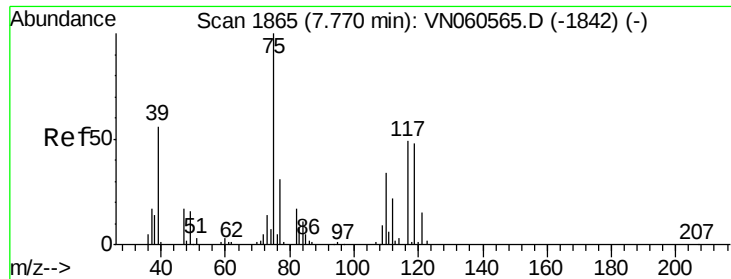


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

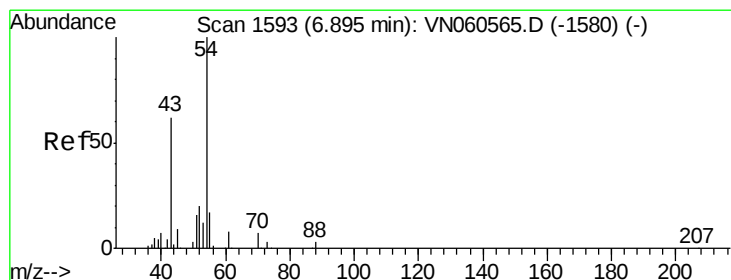
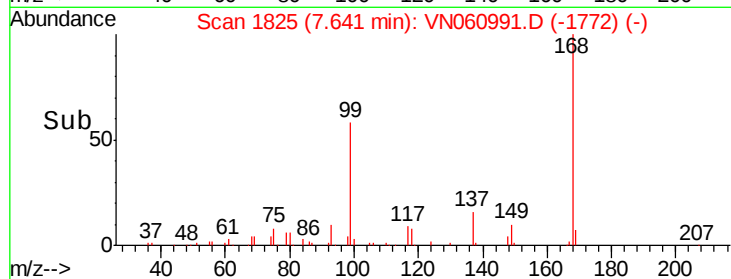
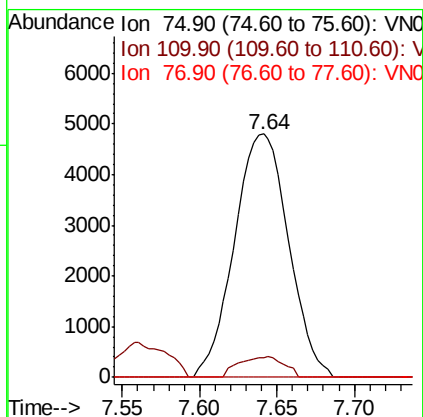
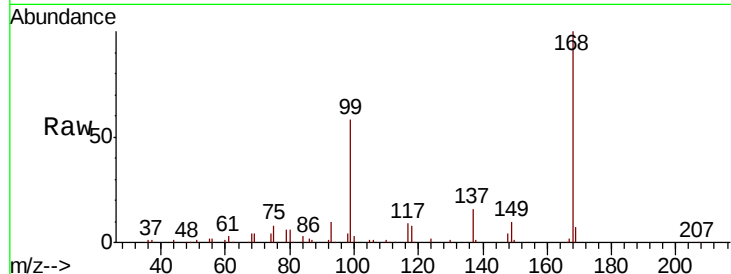




#36
 1,1-Dichloropropene
 Concen: 4.906 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060991.D
 Acq: 16 Apr 2020 2:49

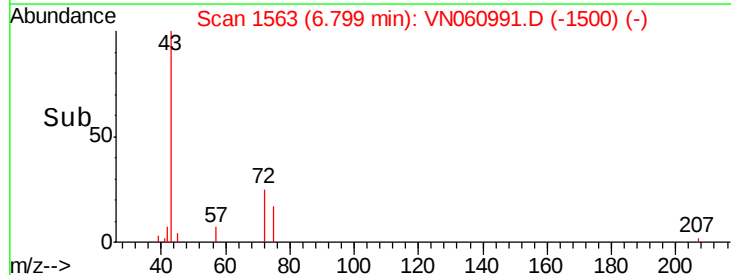
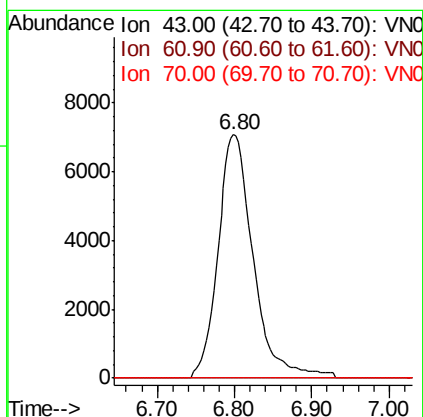
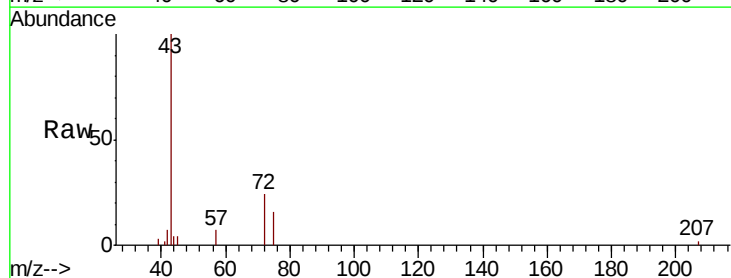
Instrument :
 MSVOA_N
 ClientSampleId :

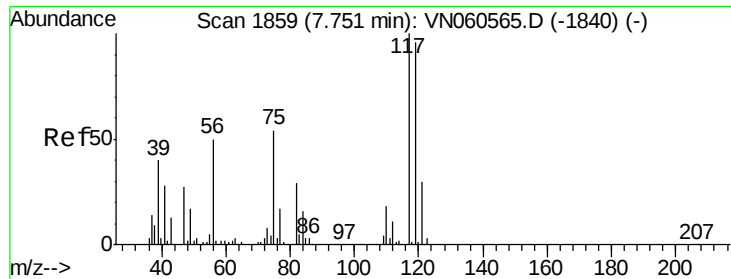
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 8.674 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060991.D
 Acq: 16 Apr 2020 2:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 6.239 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

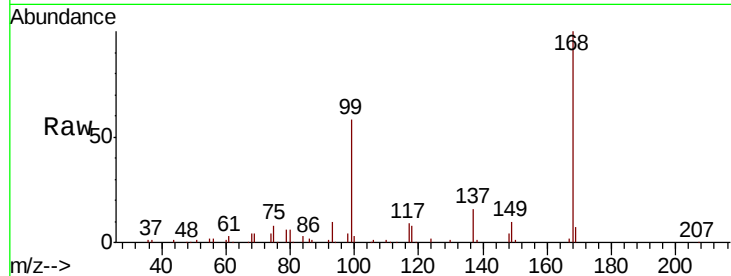
Tot Ion:117 Resp: 13337

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

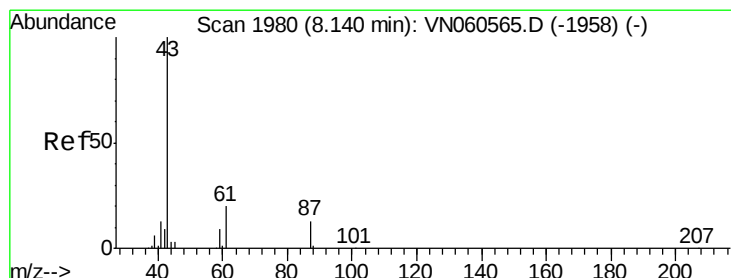
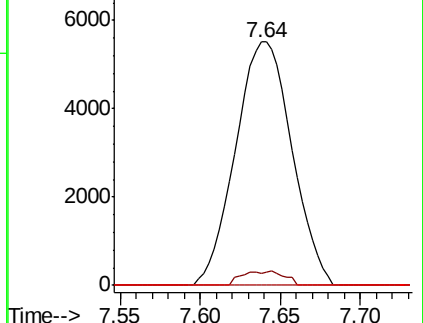
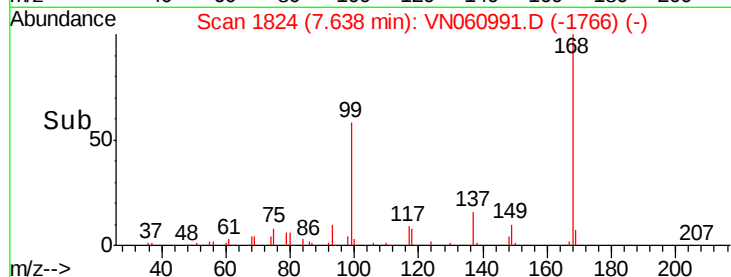
121 0.0 23.7 35.5#



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: 3.713 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

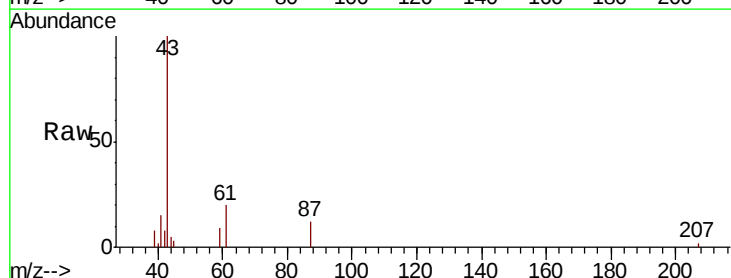
Tgt Ion: 43 Resp: 15781

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

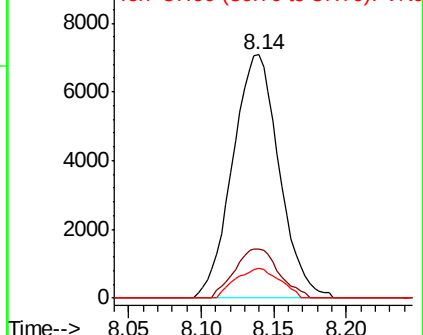
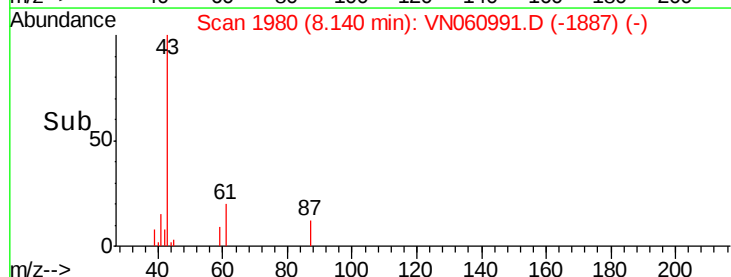
87 11.7 9.8 14.8

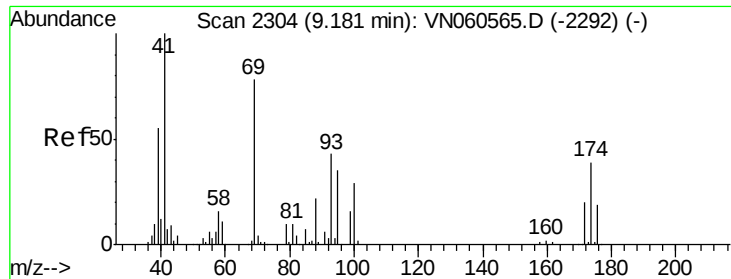


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

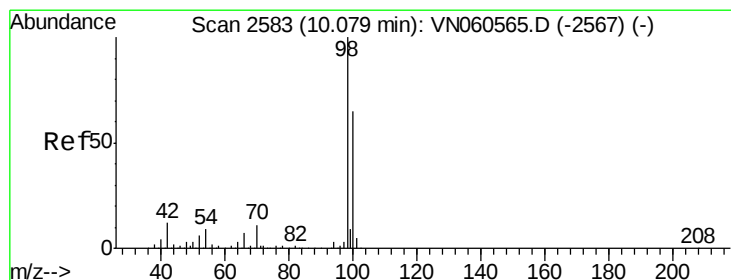
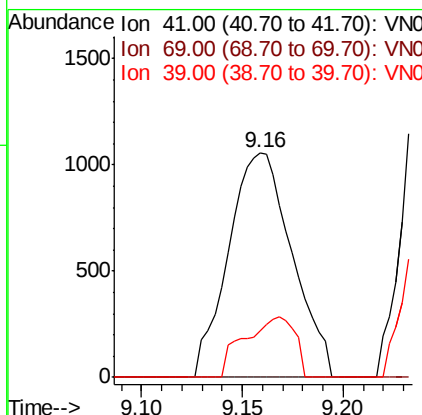
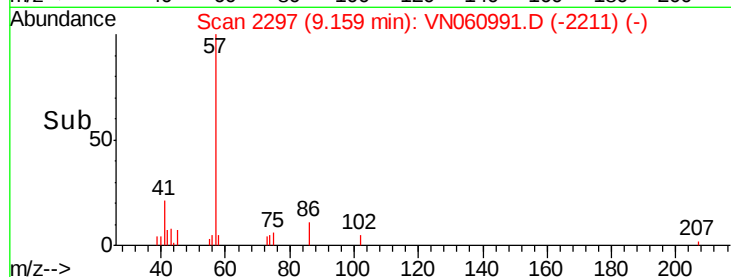
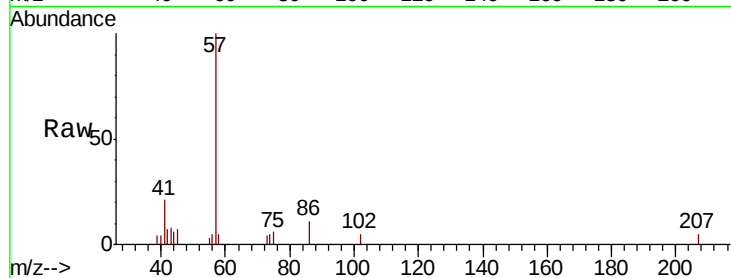




#48
Methvl methacrylate
Concen: 1.228 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

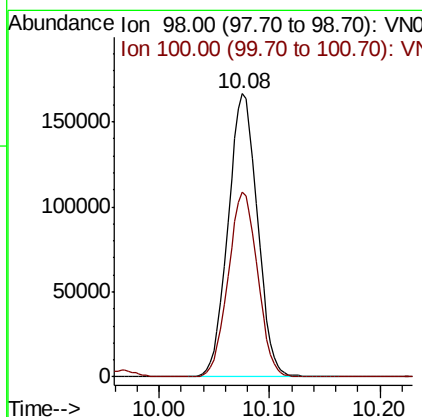
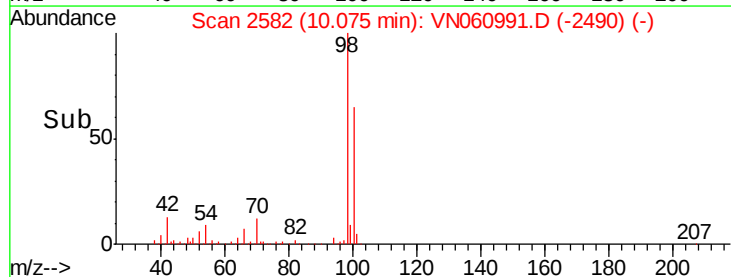
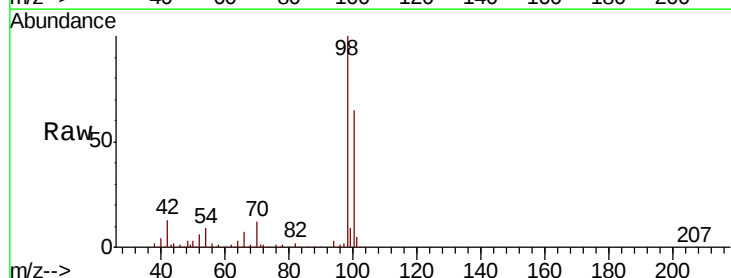
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2323
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 21.6 44.0 66.0#



#50
Toluene-d8
Concen: 50.568 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

Tgt Ion: 98 Resp: 307621
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 23.125 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

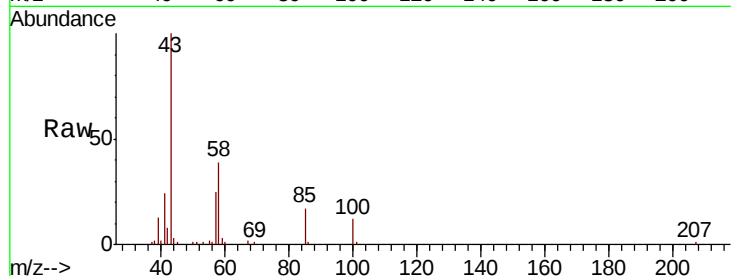
ClientSampleId :

Tot Ion: 43 Resp: 55927

Ion Ratio Lower Upper

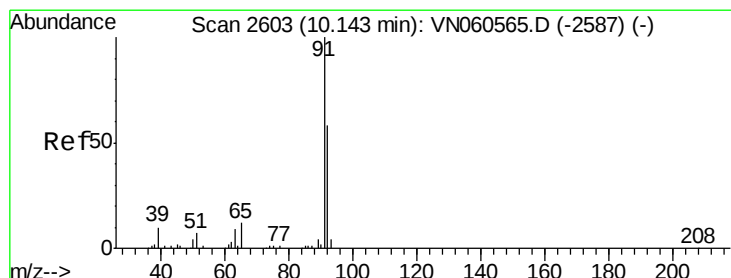
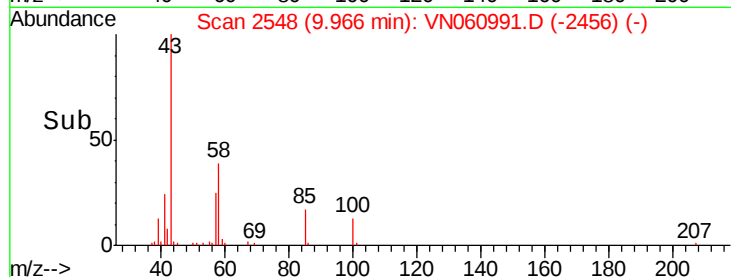
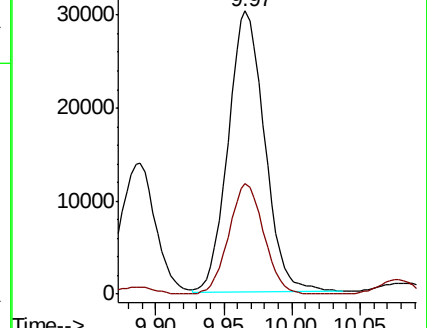
43 100

58 37.9 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)



#52

Toluene

Concen: 15.287 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060991.D

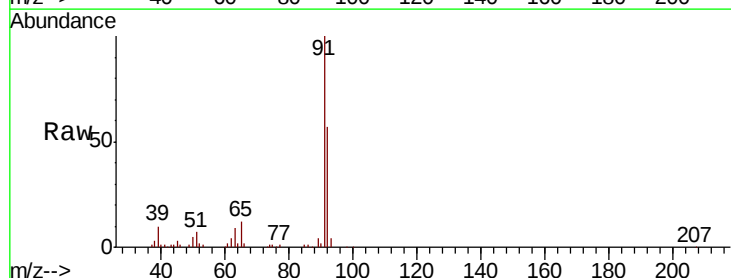
Acq: 16 Apr 2020 2:49

Tgt Ion: 92 Resp: 66468

Ion Ratio Lower Upper

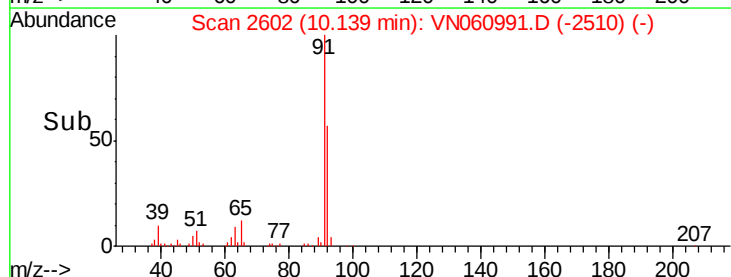
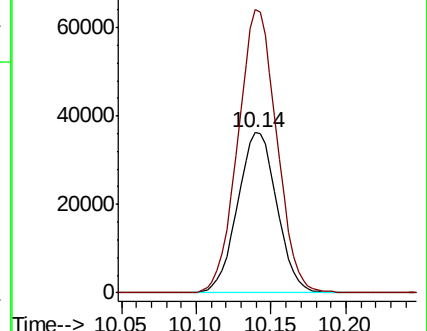
92 100

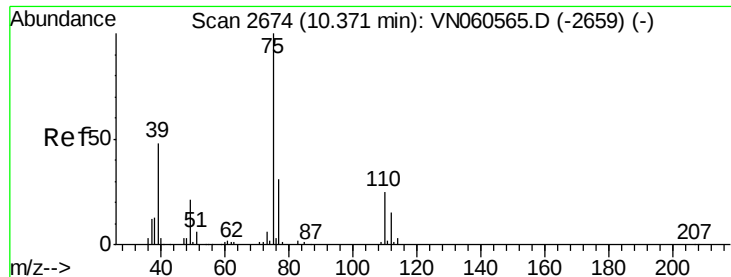
91 173.9 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060565.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN060565.D (-2587) (-)

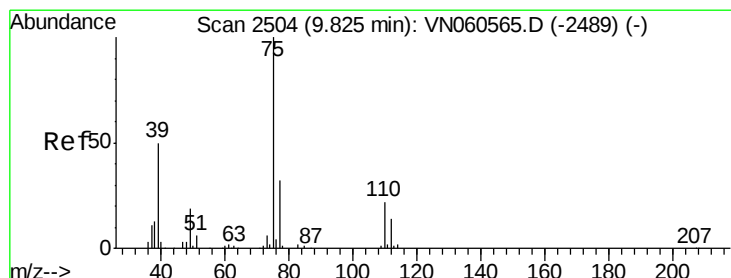
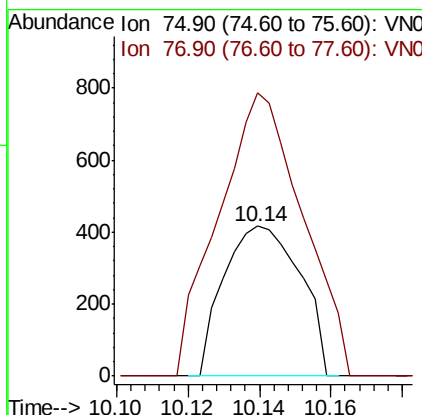
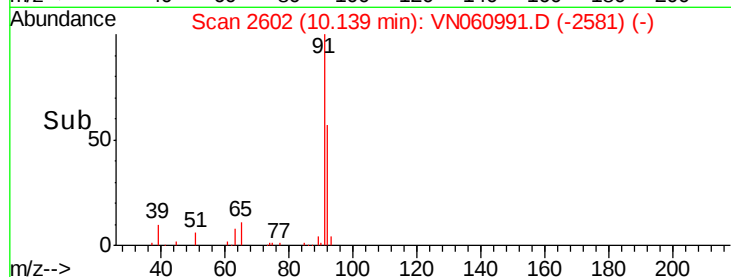
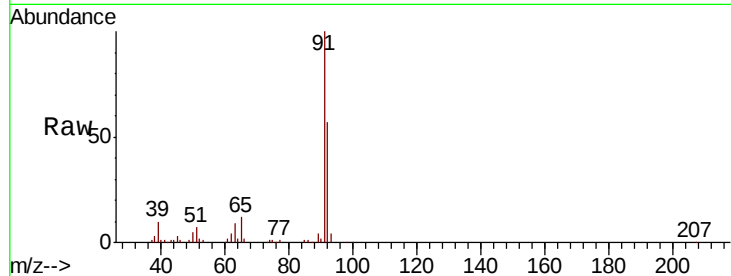




#53
t-1,3-Dichloropropene
Concen: 0.225 ug/l
RT: 10.14 min Scan# 2602
Delta R.T. -0.23 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

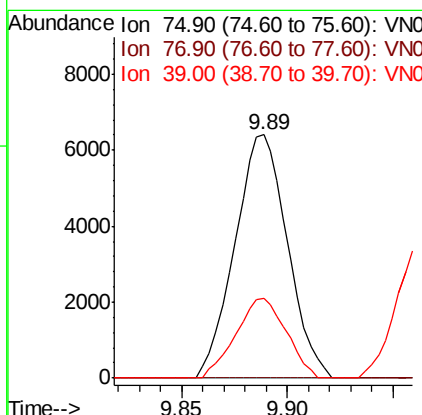
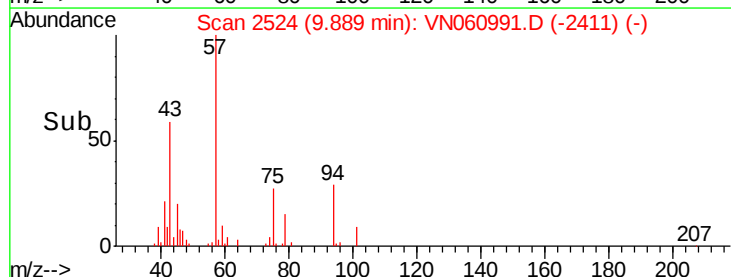
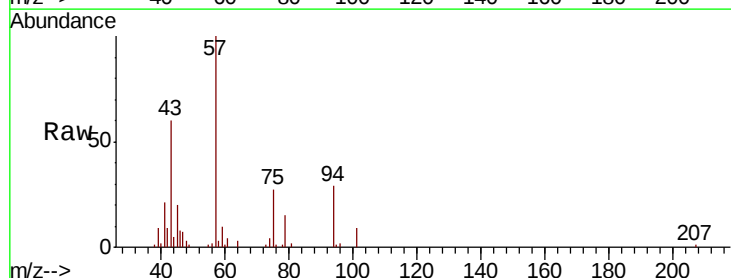
Instrument :
MSVOA_N
ClientSampled :

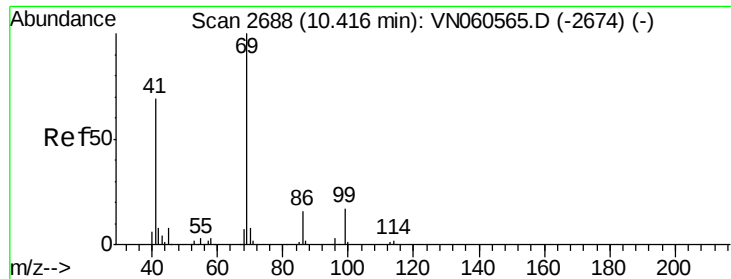
Tot Ion: 75 Resp: 617
Ion Ratio Lower Upper
75 100
77 146.8 25.1 37.7#



#54
cis-1,3-Dichloropropene
Concen: 3.678 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060991.D
Acq: 16 Apr 2020 2:49

Tgt Ion: 75 Resp: 11061
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 33.0 40.2 60.4#





#56

Ethyl methacrylate

Concen: 2.545 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

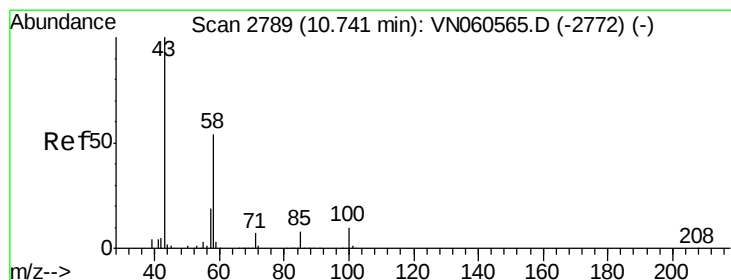
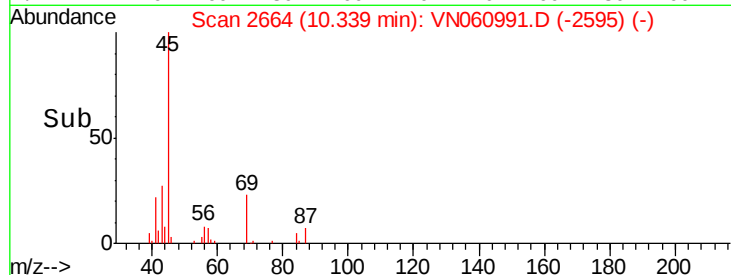
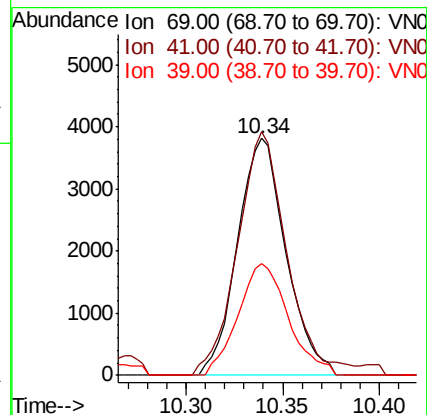
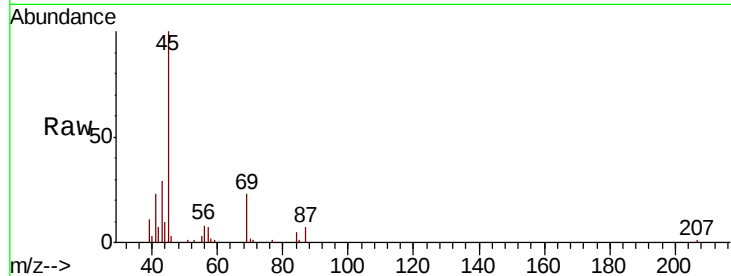
Tot Ion: 69 Resp: 6637

Ion Ratio Lower Upper

69 100

41 104.8 55.4 83.2#

39 48.9 29.4 44.0#



#59

2-Hexanone

Concen: 3.625 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN060991.D

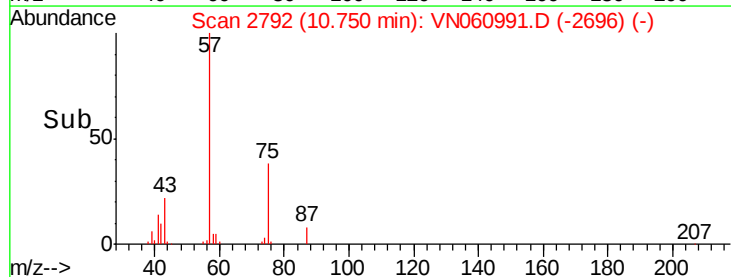
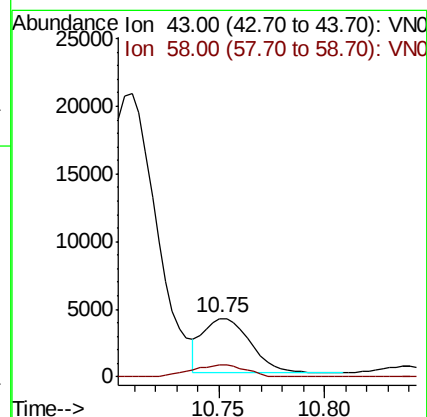
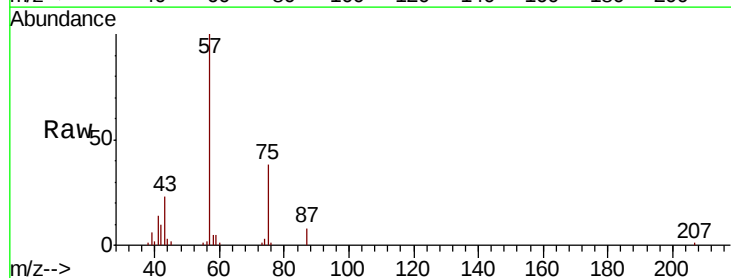
Acq: 16 Apr 2020 2:49

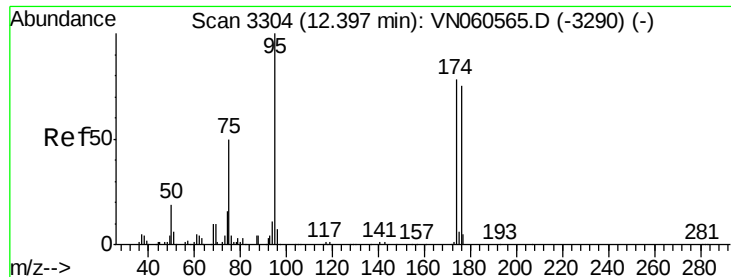
Tgt Ion: 43 Resp: 6316

Ion Ratio Lower Upper

43 100

58 25.0 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 53.488 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

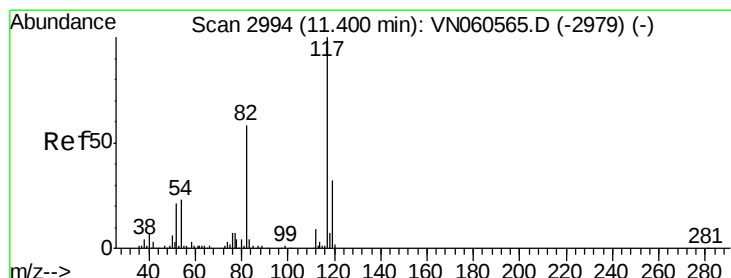
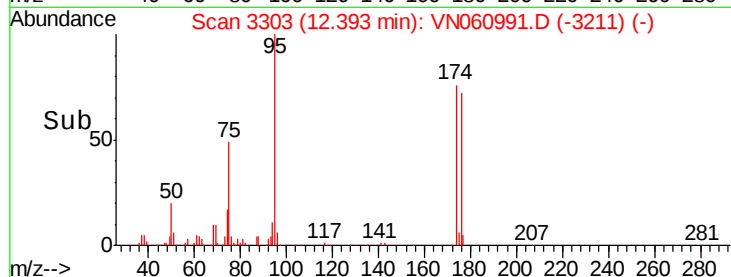
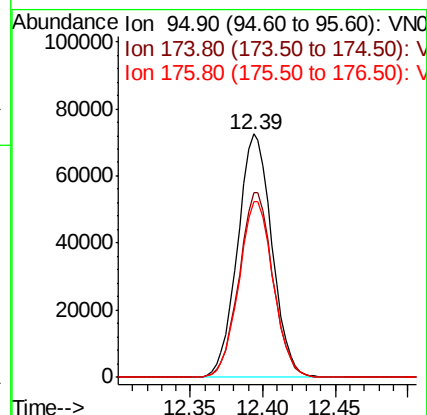
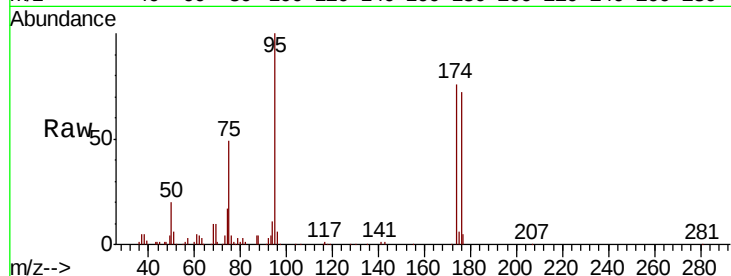
Tot Ion: 95 Resp: 119248

Ion Ratio Lower Upper

95 100

174 74.8 0.0 157.6

176 72.4 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: VN060991.D

Acq: 16 Apr 2020 2:49

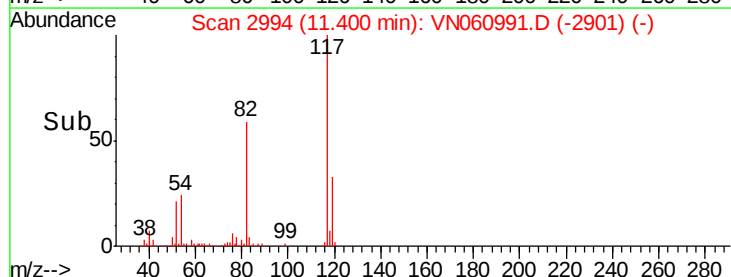
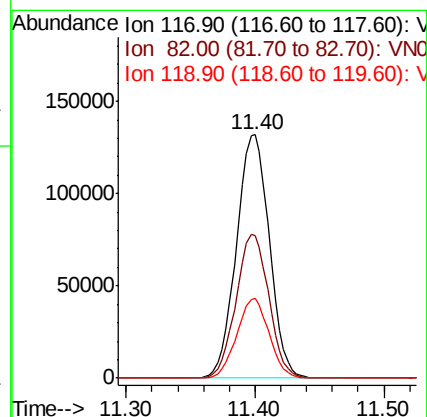
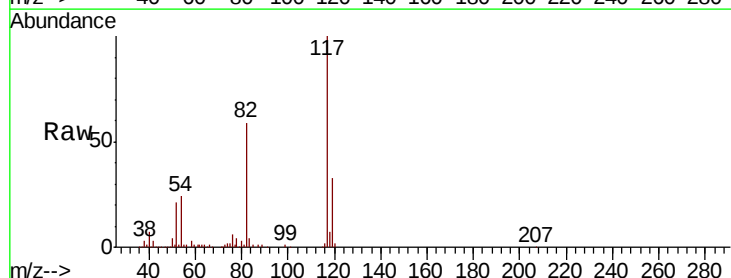
Tgt Ion: 117 Resp: 234200

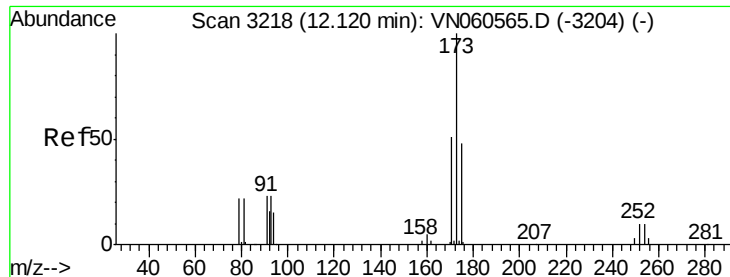
Ion Ratio Lower Upper

117 100

82 58.6 46.7 70.1

119 32.6 25.5 38.3





#71

Bromoform

Concen: 1.851 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

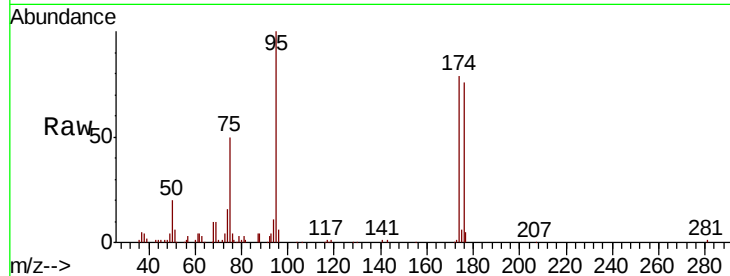
Tot Ion:173 Resp: 247

Ion Ratio Lower Upper

173 100

175 2381.4 24.1 72.4#

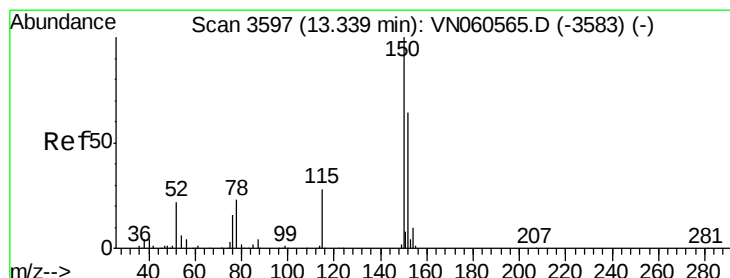
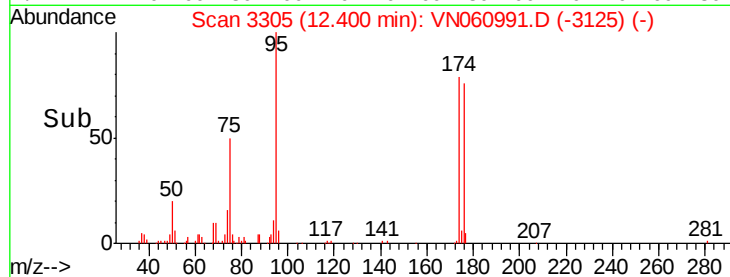
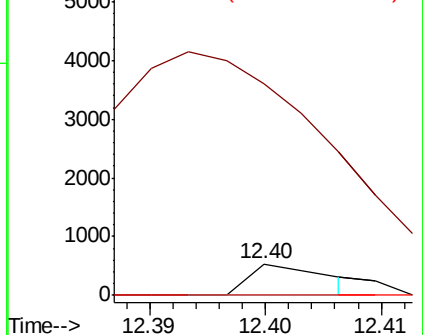
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

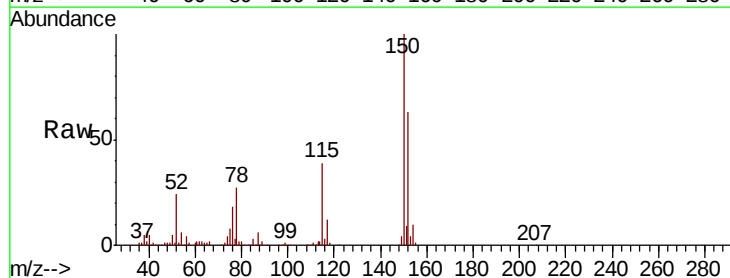
Tgt Ion:152 Resp: 107698

Ion Ratio Lower Upper

152 100

115 61.2 30.2 90.6

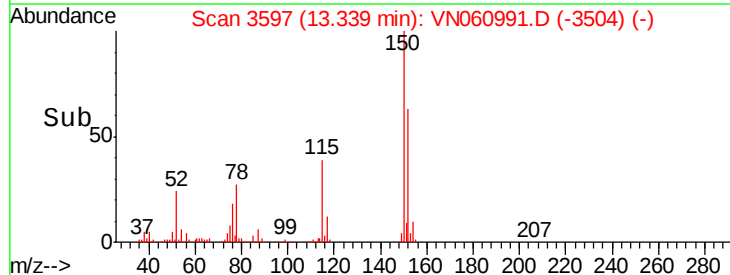
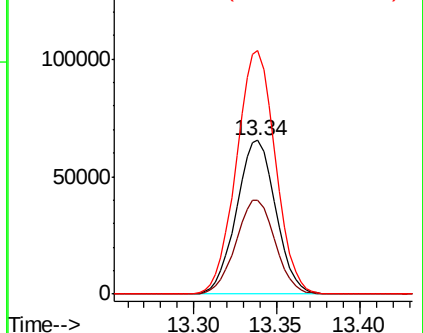
150 157.6 0.0 350.2

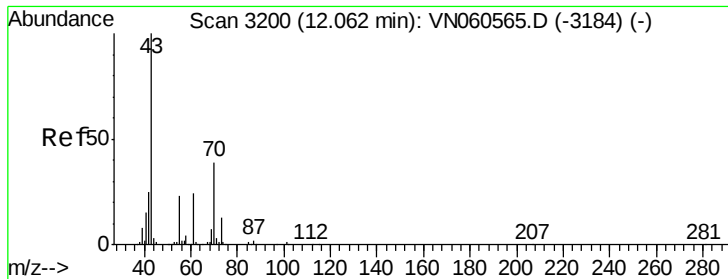


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.852 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3181

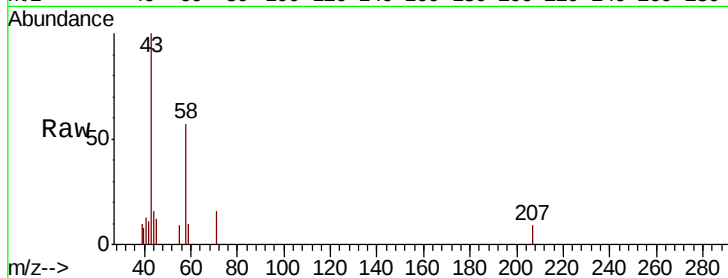
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 3.5 18.6 27.8#

61 0.0 18.9 28.3#

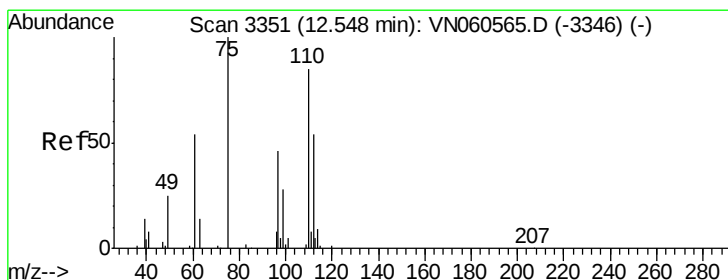
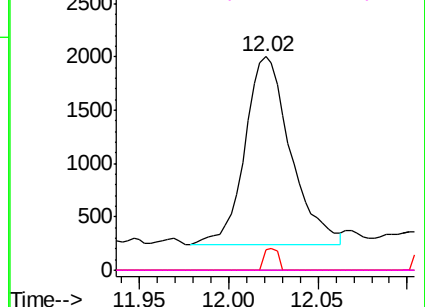
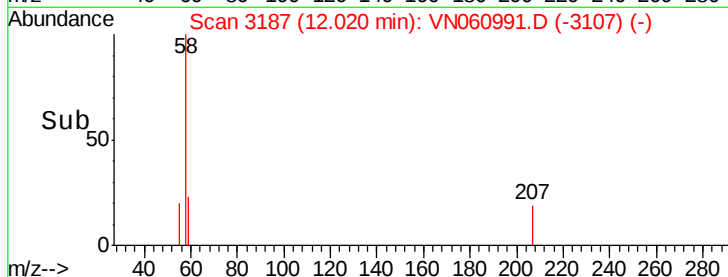


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.602 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060991.D

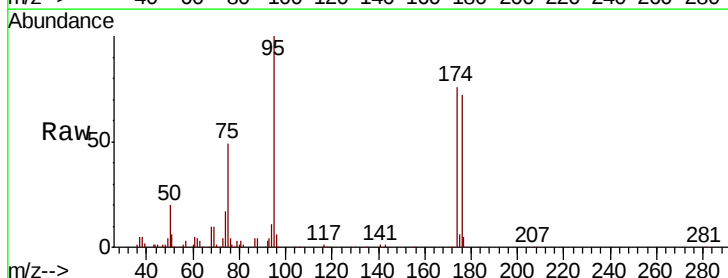
Acq: 16 Apr 2020 2:49

Tgt Ion: 75 Resp: 59497

Ion Ratio Lower Upper

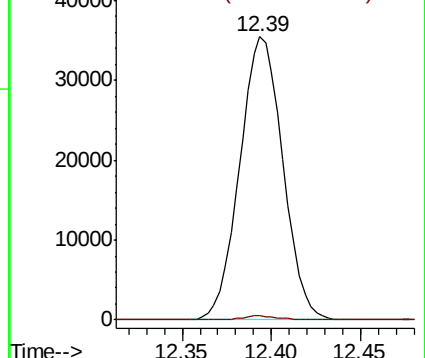
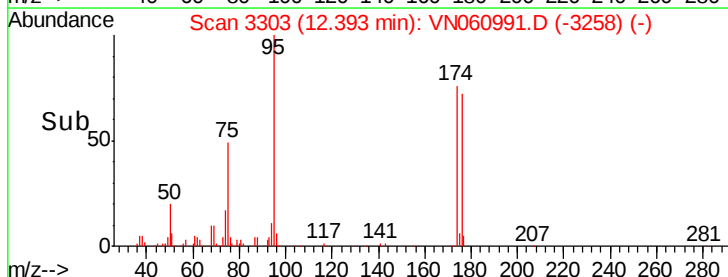
75 100

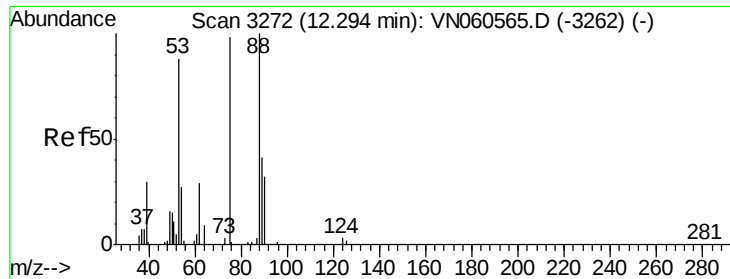
77 1.1 0.0 0.0#



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: 65.754 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060991.D

Acq: 16 Apr 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

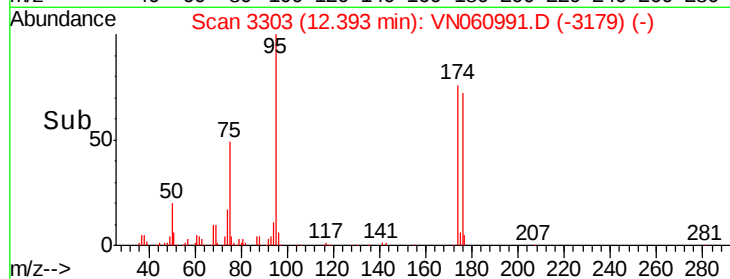
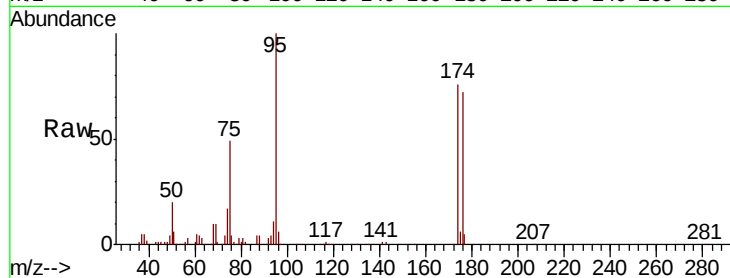
Tot Ion: 75 Resp: 59497

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

