

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061514.D
 Acq On : 20 May 2020 20:34
 Operator : JC/MD
 Sample : PB129002ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 21 01:15:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	299427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	552576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	556069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	249281	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	203128	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	
35) Dibromofluoromethane	7.55	113	140063	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	10.06	98	695636	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
62) 4-Bromofluorobenzene	12.38	95	271370	54.10	ug/l	0.00
Spiked Amount			Recovery	=	108.20%	

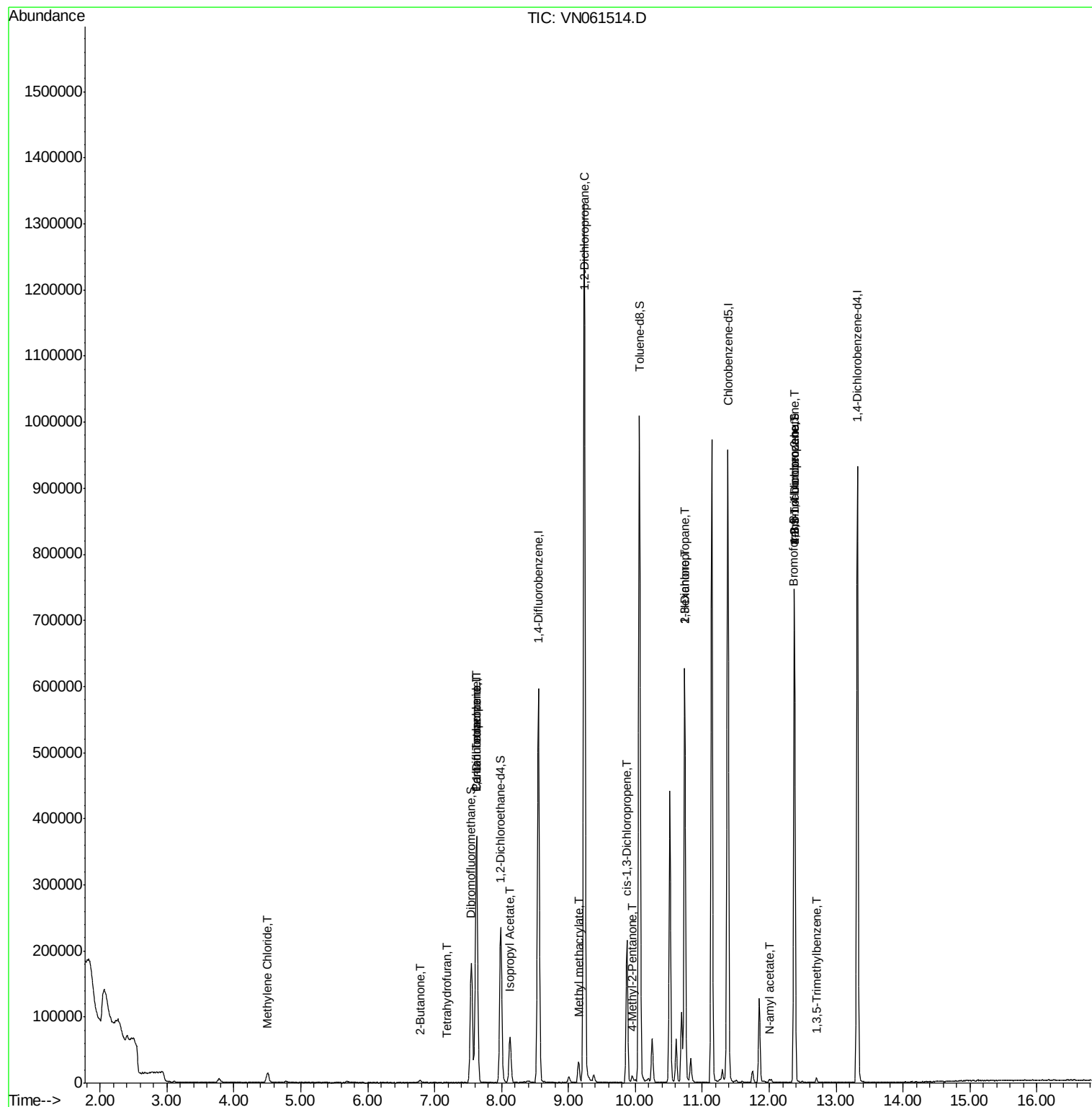
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	378	Below Cal	#	12
16) Acetone	3.77	43	10214	Below Cal		93
18) Methyl Acetate	4.28	43	2326	Below Cal	#	62
20) Methylene Chloride	4.50	84	11692	3.183	ug/l	93
25) 2-Butanone	6.79	43	1364	0.670	ug/l	92
29) Tetrahydrofuran	7.17	42	306	0.227	ug/l #	37
31) Cyclohexane	7.63	56	6531	Below Cal	#	2
36) 1,1-Dichloropropene	7.63	75	23363	4.522	ug/l #	51
38) Carbon Tetrachloride	7.62	117	32259	6.780	ug/l #	15
43) Isopropyl Acetate	8.13	43	80714	9.876	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1775	0.455	ug/l #	43
48) Methyl methacrylate	9.15	41	4099	1.086	ug/l #	9
49) 1,4-Dioxane	9.16	88	31	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6782	1.523	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	42303	6.307	ug/l #	58
57) 1,3-Dichloropropane	10.73	76	7195	1.102	ug/l #	42
59) 2-Hexanone	10.74	43	83162	25.819	ug/l #	49
71) Bromoform	12.36	173	235	2.092	ug/l #	29
74) N-amyl acetate	12.00	43	3927	0.536	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	136455	25.511	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3872	0.236	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	136455	67.674	ug/l #	12

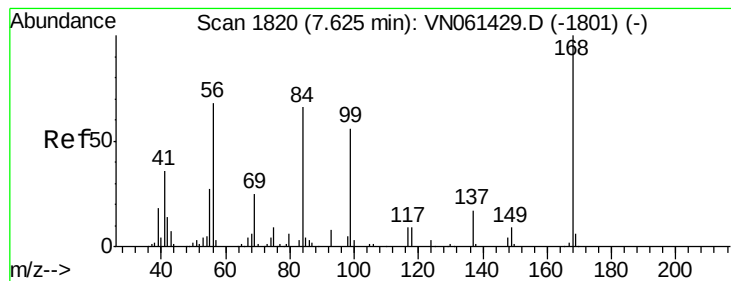
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

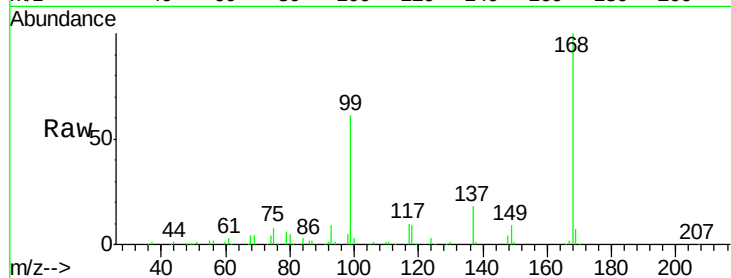
ClientSampleId :

Tot Ion:168 Resp: 299427

Ion Ratio Lower Upper

168 100

99 60.7 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

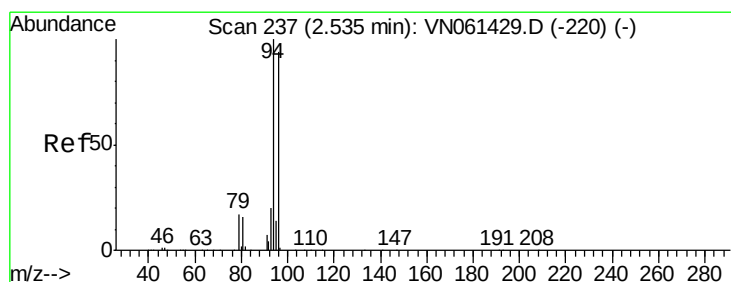
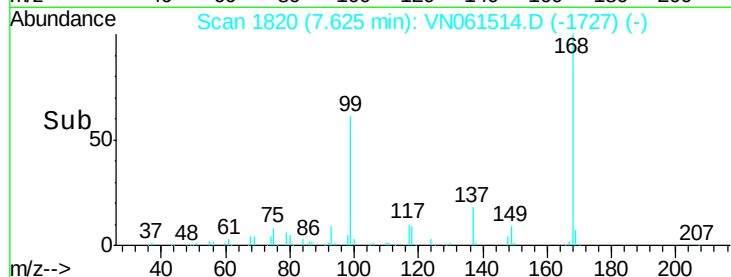
7.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061514.D

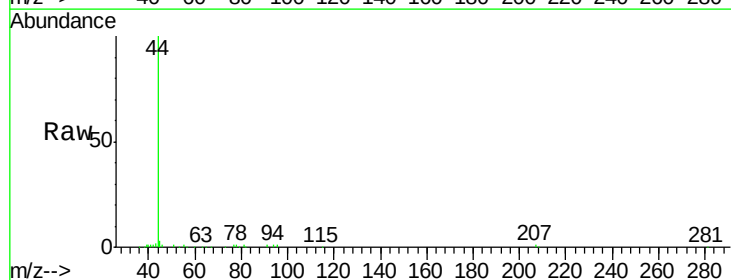
Acq: 20 May 2020 20:34

Tgt Ion: 94 Resp: 378

Ion Ratio Lower Upper

94 100

96 8.9 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

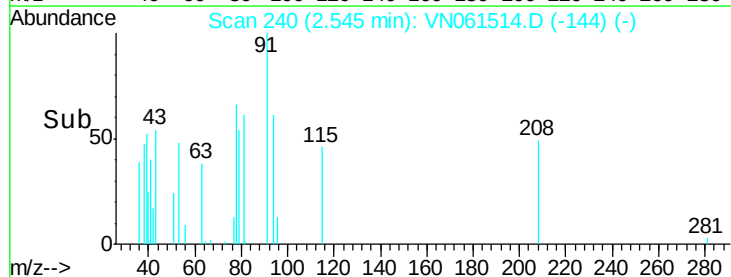
300

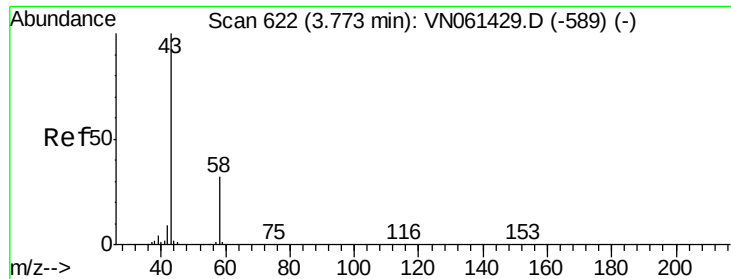
200

100

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.77 min Scan# 622

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

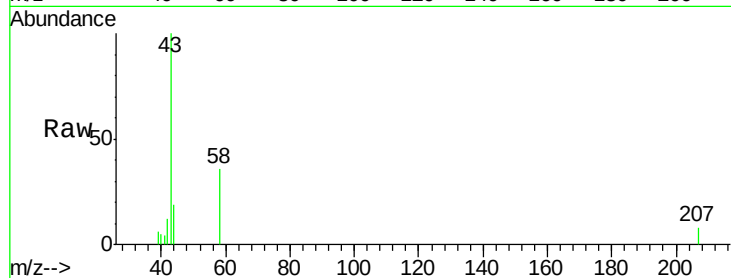
ClientSampled :

Tot Ion: 43 Resp: 10214

Ion Ratio Lower Upper

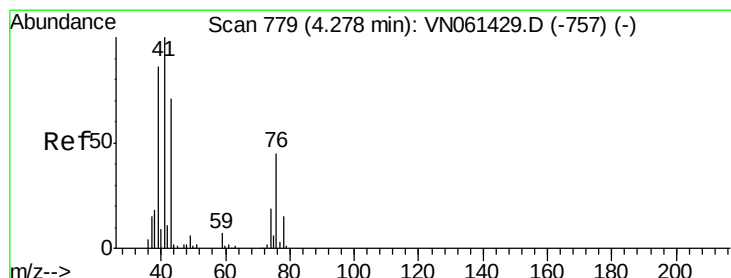
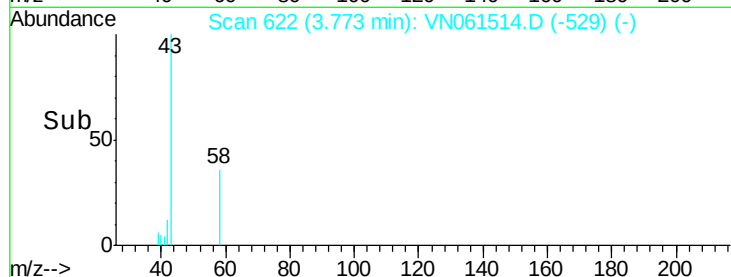
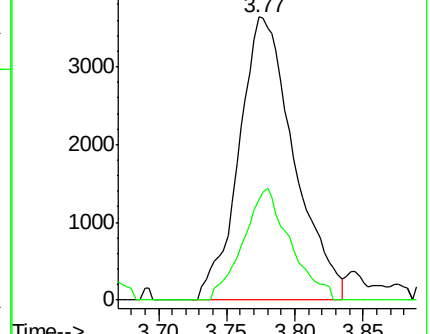
43 100

58 35.6 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN061514.D

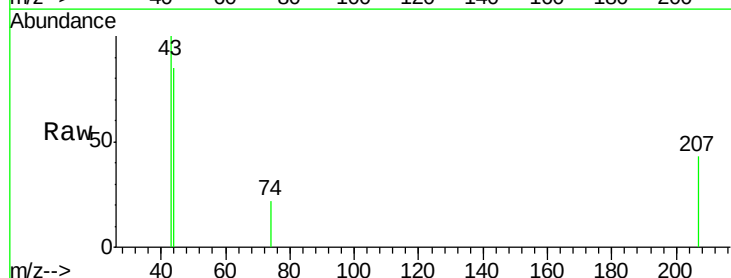
Acq: 20 May 2020 20:34

Tgt Ion: 43 Resp: 2326

Ion Ratio Lower Upper

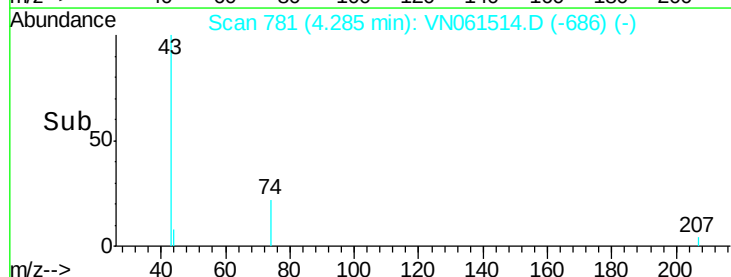
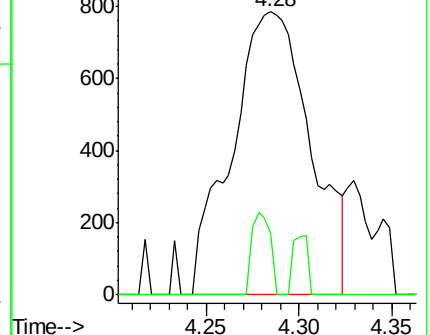
43 100

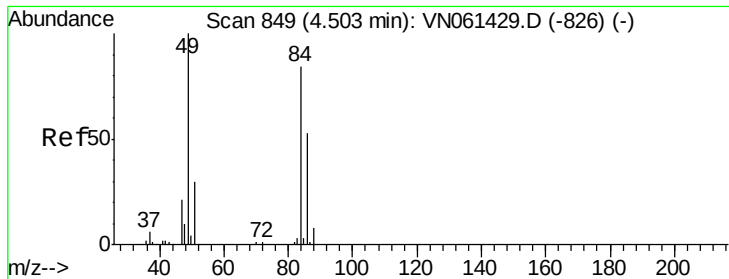
74 6.7 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

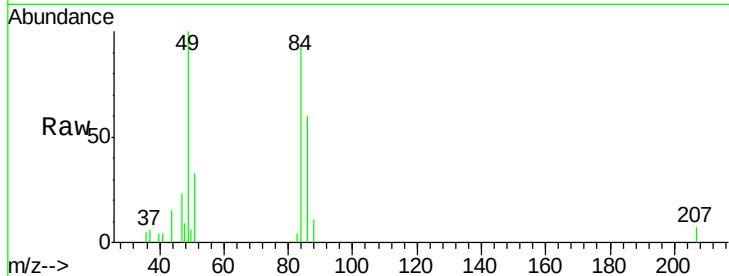




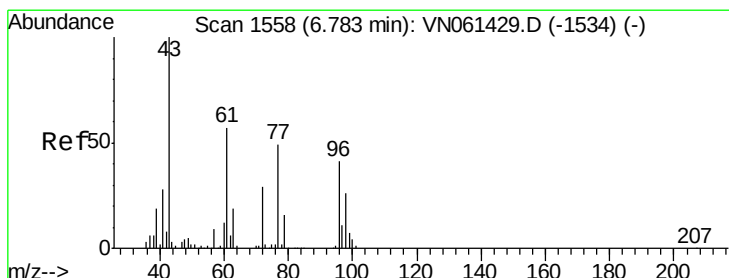
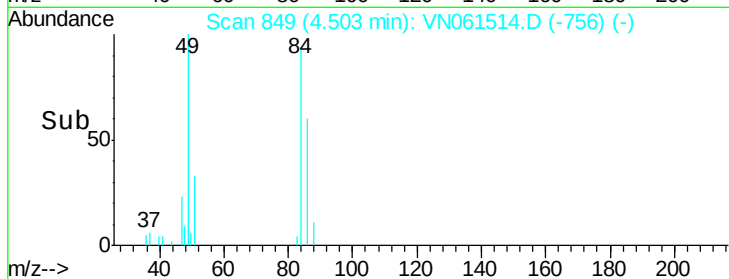
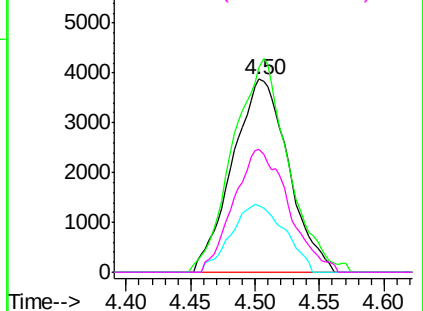
#20
Methylene Chloride
Concen: 3.183 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 11692
Ion Ratio Lower Upper
84 100
49 106.2 95.3 142.9
51 34.9 29.0 43.6
86 63.4 50.2 75.2

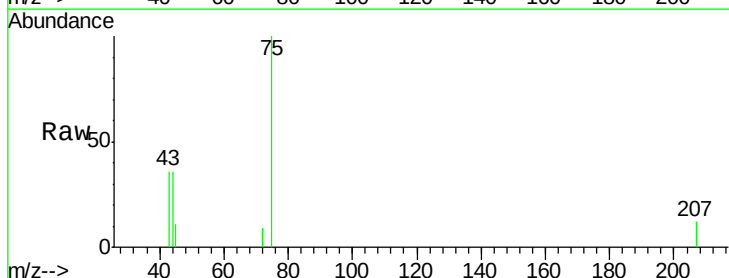


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

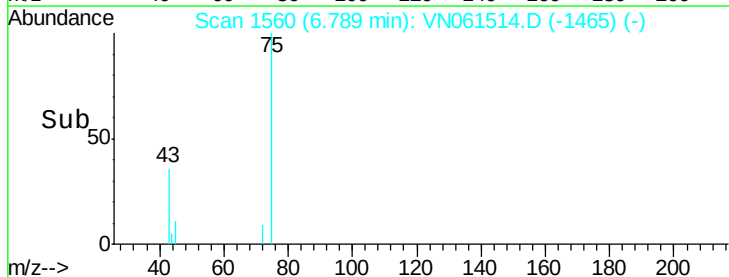
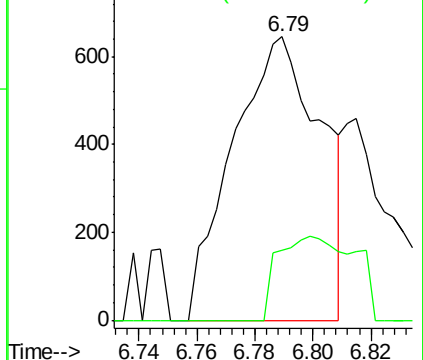


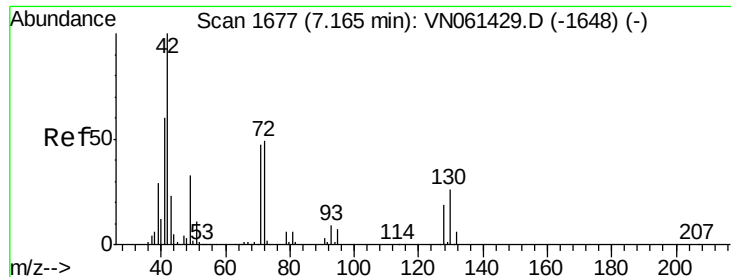
#25
2-Butanone
Concen: 0.670 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

Tgt Ion: 43 Resp: 1364
Ion Ratio Lower Upper
43 100
72 24.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

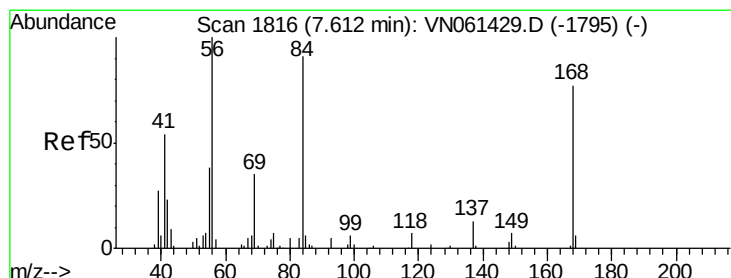
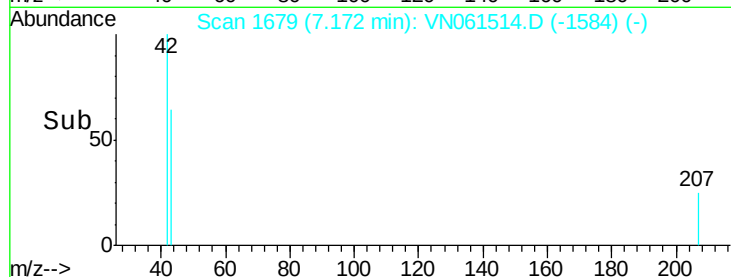
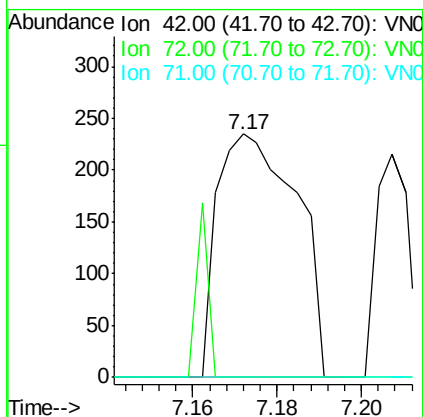
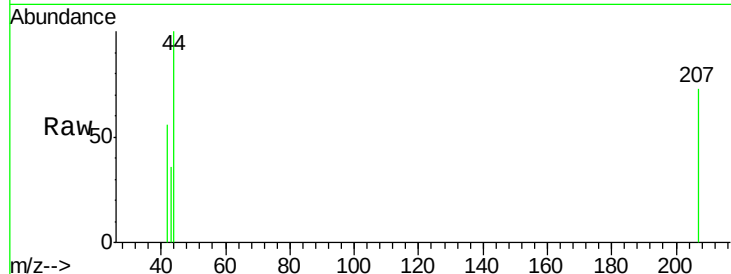




#29
Tetrahydrofuran
Concen: 0.227 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

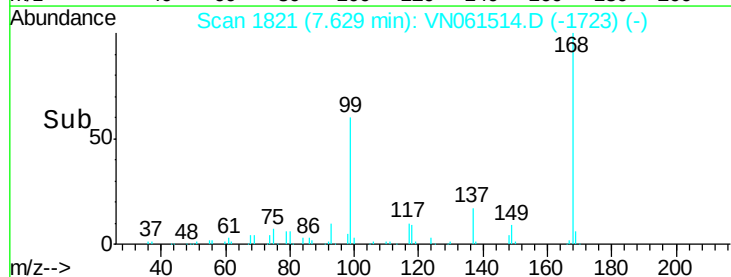
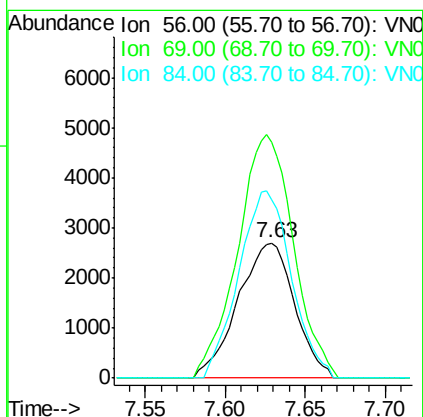
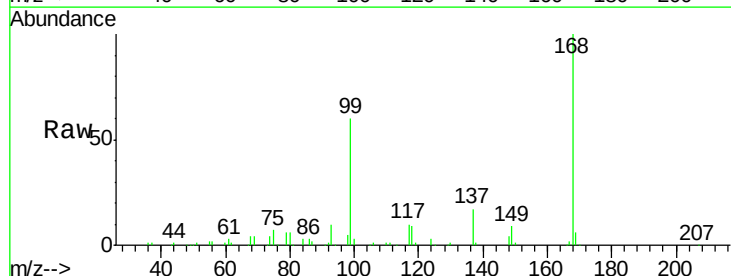
Instrument :
MSVOA_N
ClientSampled :

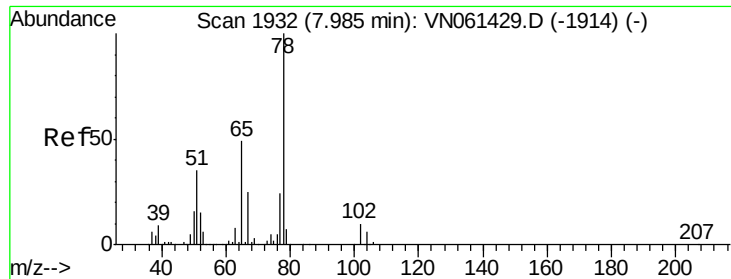
Tot Ion: 42 Resp: 306
Ion Ratio Lower Upper
42 100
72 10.5 39.0 58.6#
71 0.0 36.9 55.3#



#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

Tgt Ion: 56 Resp: 6531
Ion Ratio Lower Upper
56 100
69 175.3 27.8 41.6#
84 131.9 72.7 109.1#

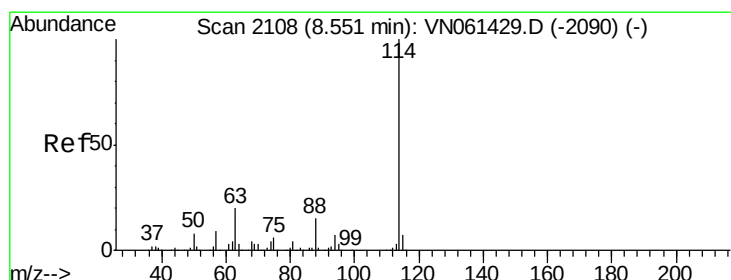
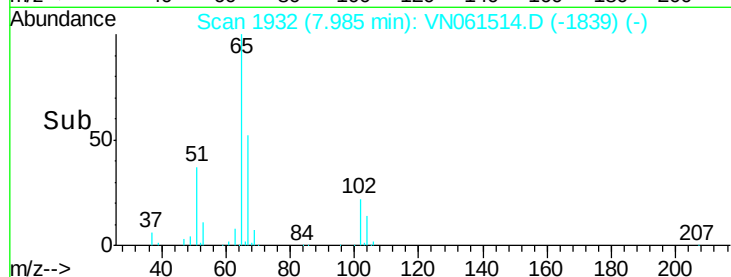
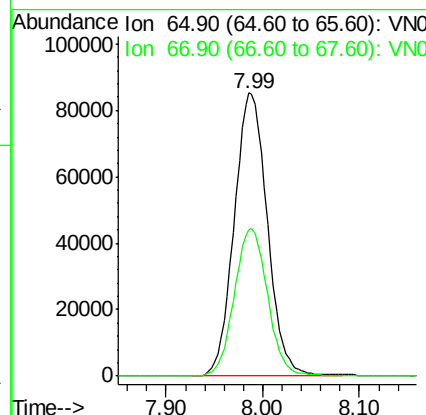
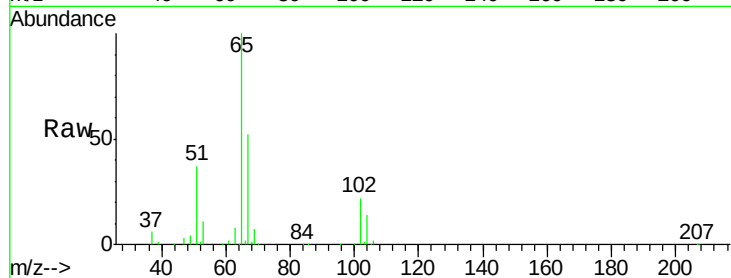




#33
 1,2-Dichloroethane-d4
 Concen: 45.455 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. 0.00 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

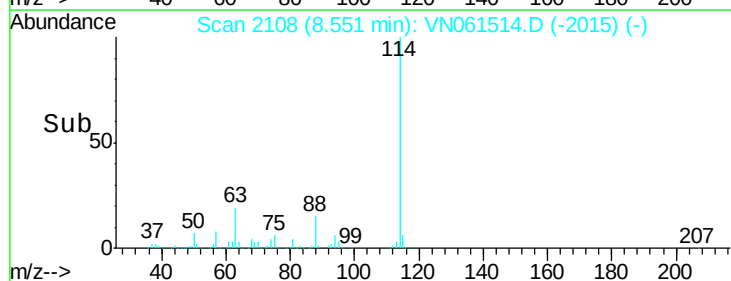
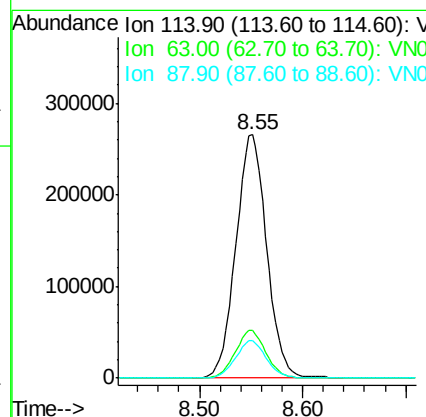
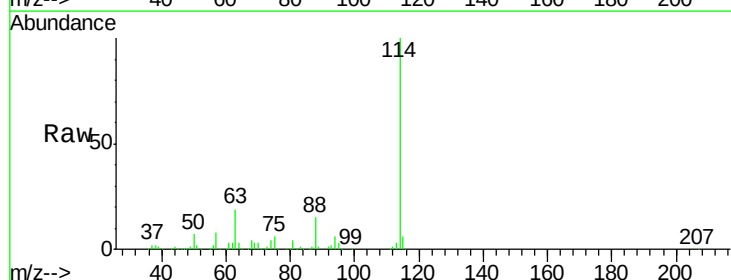
Instrument :
 MSVOA_N
 ClientSampleId :

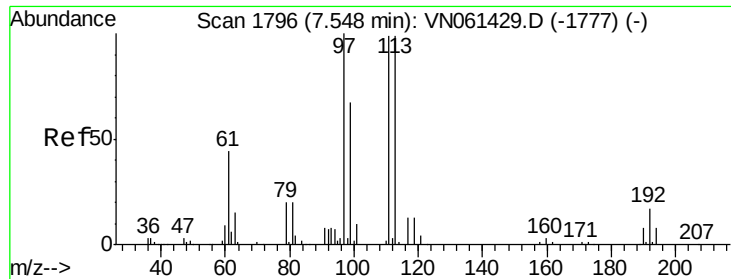
Tot Ion: 65 Resp: 203128
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Tgt Ion: 114 Resp: 552576
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.8
 88 15.3 0.0 30.8

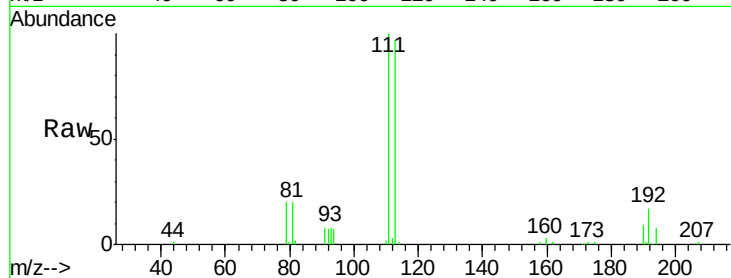




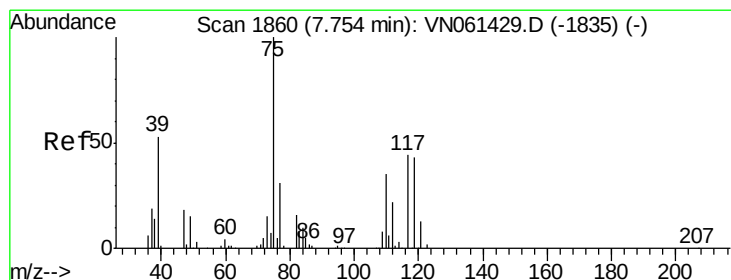
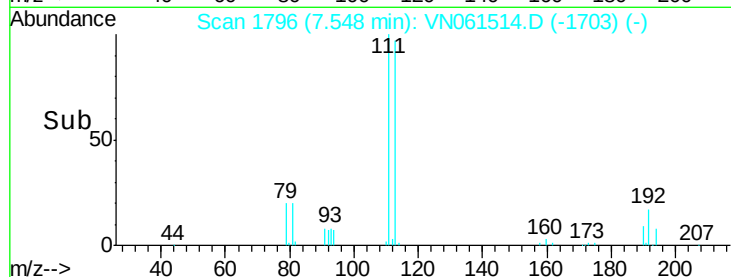
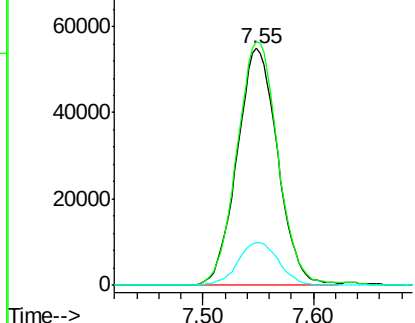
#35
 Dibromofluoromethane
 Concen: 48.384 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.4	80.6	121.0
192	18.2	13.2	19.8

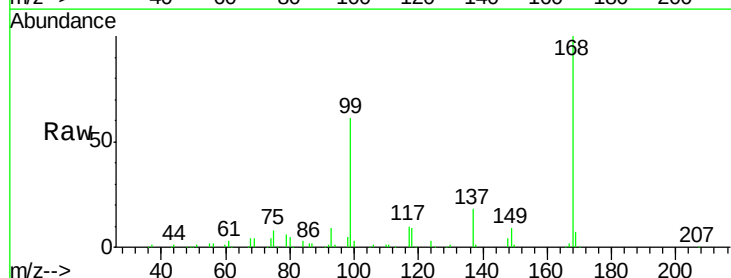


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

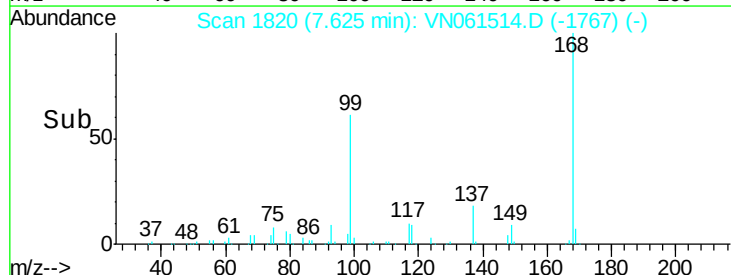
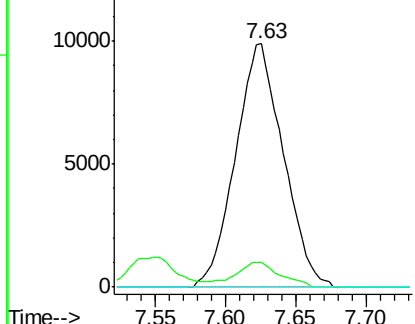


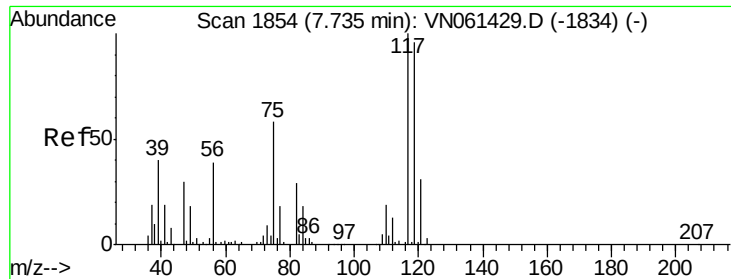
#36
 1,1-Dichloropropene
 Concen: 4.522 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.3	51.9#
77	0.0	24.9	37.3#



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

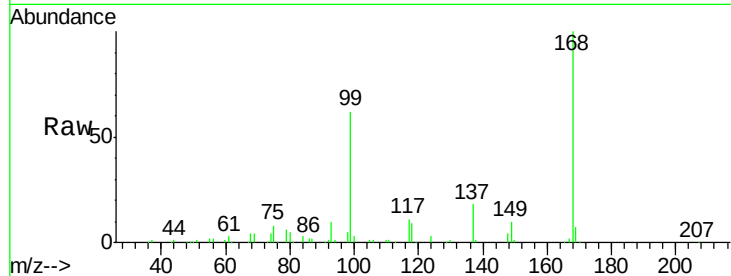




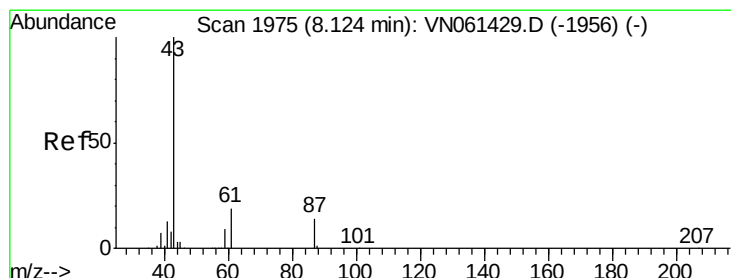
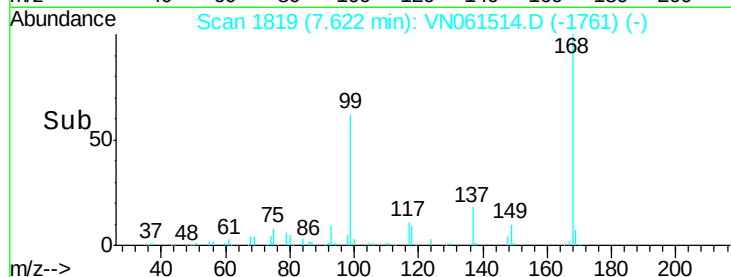
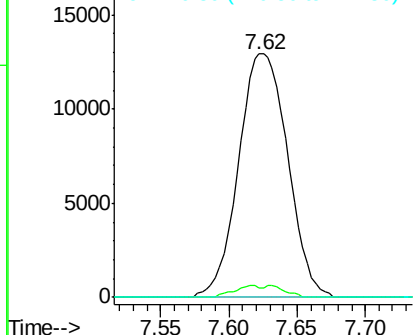
#38
Carbon Tetrachloride
Concen: 6.780 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 32259
Ion Ratio Lower Upper
117 100
119 4.1 77.0 115.6#
121 0.0 24.7 37.1#

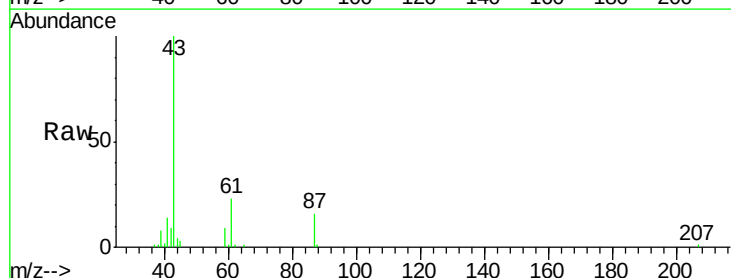


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

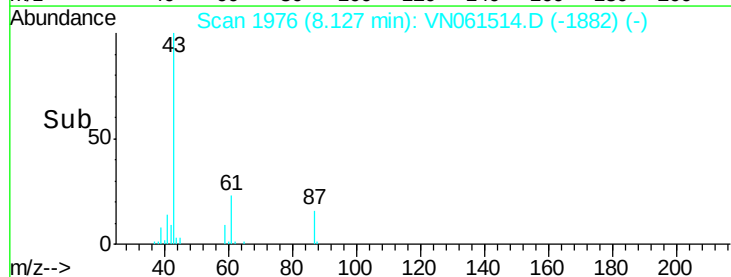
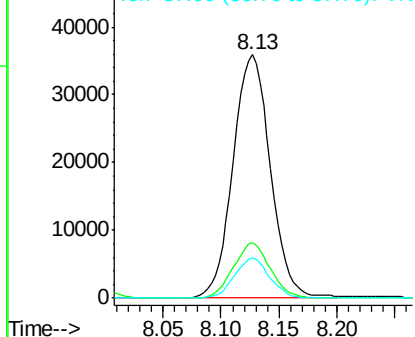


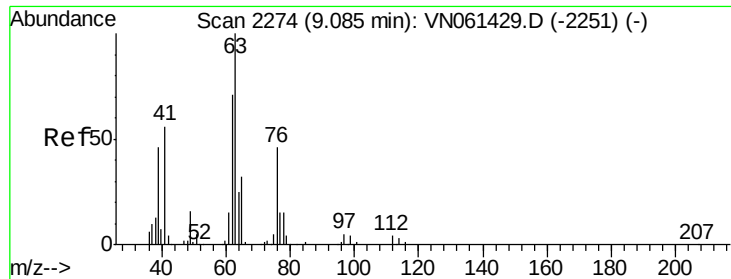
#43
Isopropyl Acetate
Concen: 9.876 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061514.D
Acq: 20 May 2020 20:34

Tgt Ion: 43 Resp: 80714
Ion Ratio Lower Upper
43 100
61 22.1 23.0 34.4#
87 15.3 11.6 17.4



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

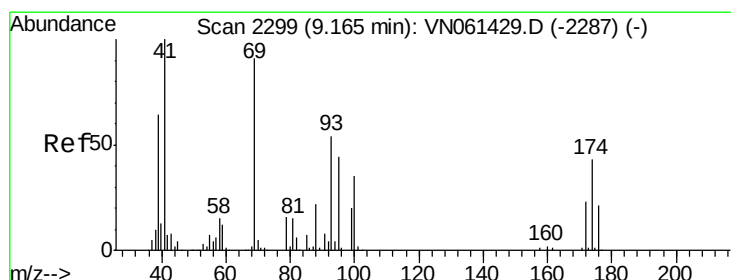
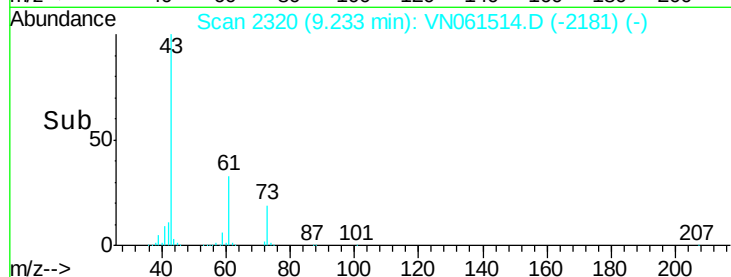
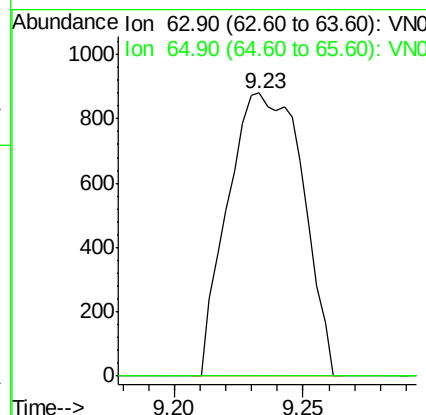
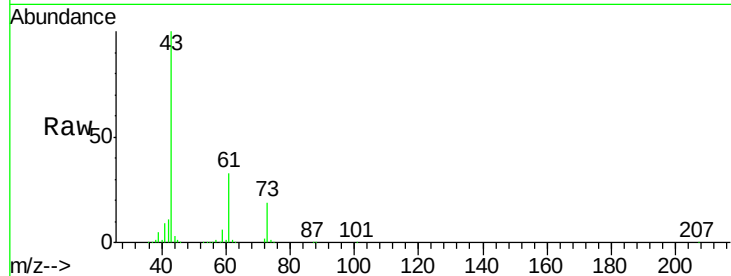




#45
 1,2-Dichloropropane
 Concen: 0.455 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

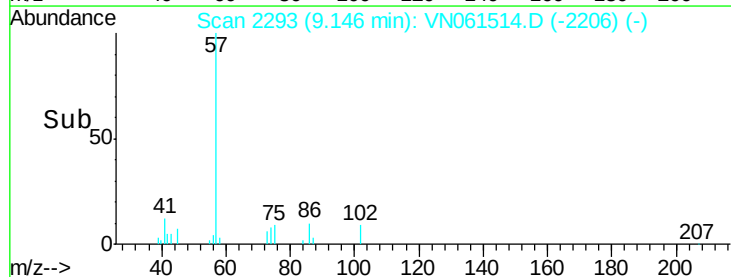
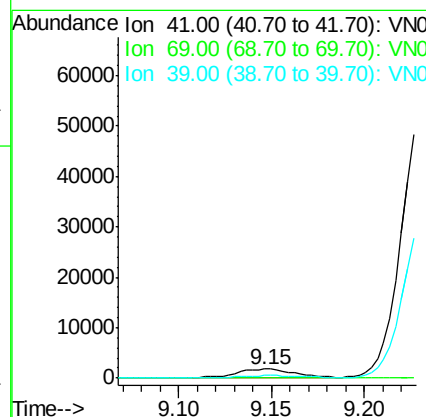
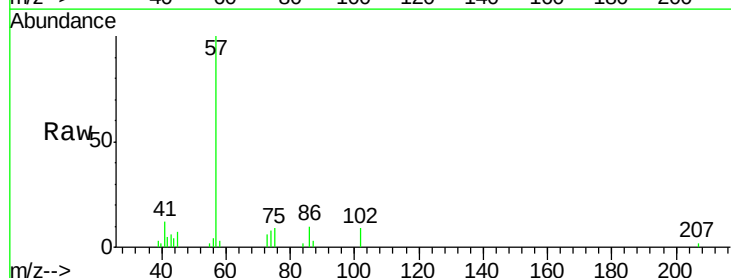
Instrument :
 MSVOA_N
 ClientSampled :

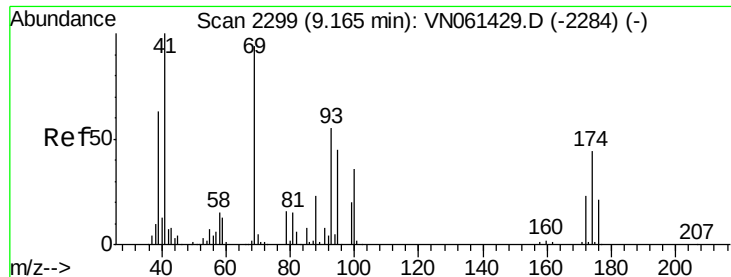
Tot Ion: 63 Resp: 1775
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 1.086 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Tgt Ion: 41 Resp: 4099
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 0.0 52.6 79.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.16 min Scan# 2296

Delta R.T. -0.01 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

ClientSampled :

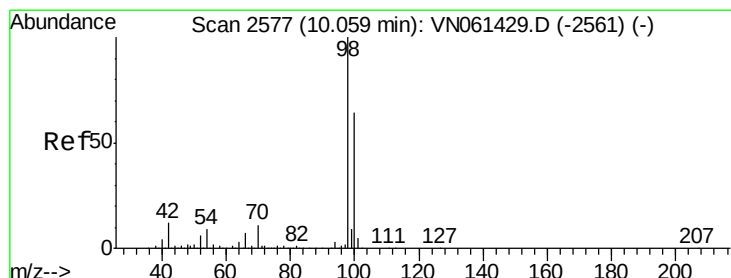
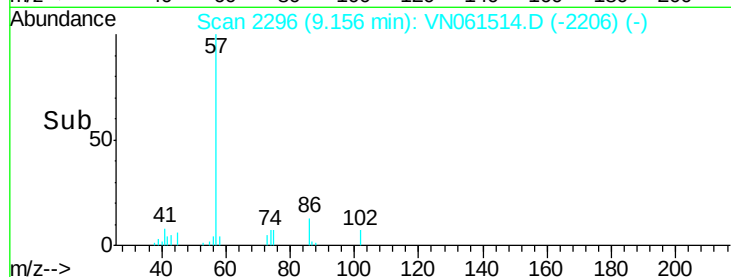
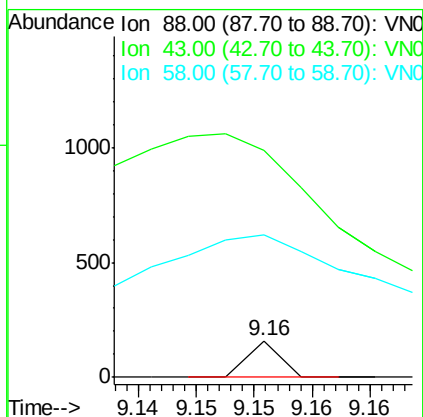
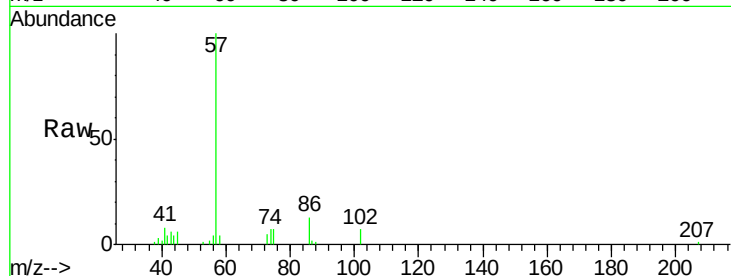
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 0.0 26.3 39.5#

58 3841.9 54.1 81.1#



#50

Toluene-d8

Concen: 51.810 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061514.D

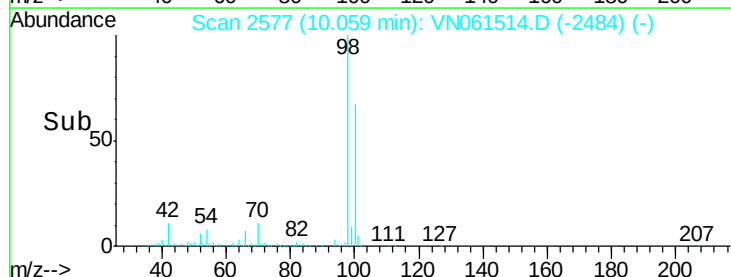
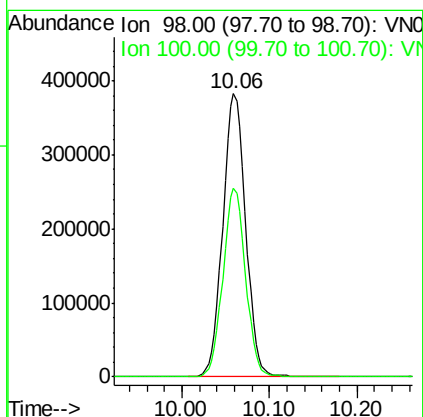
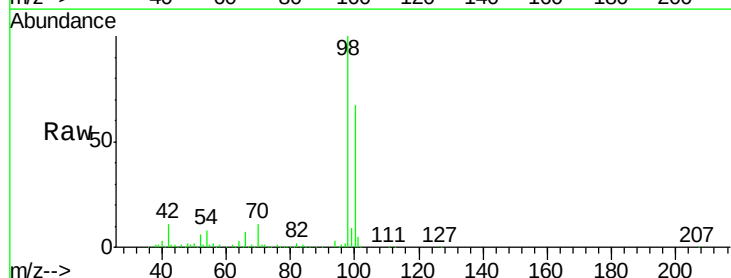
Acq: 20 May 2020 20:34

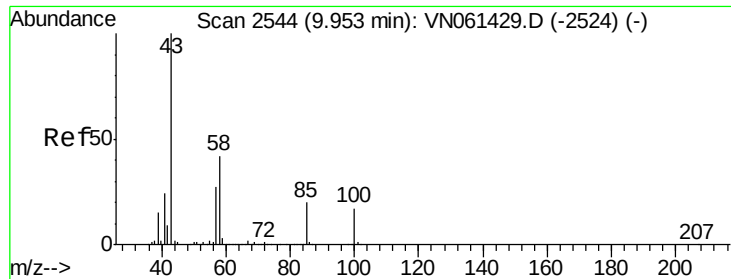
Tgt Ion: 98 Resp: 695636

Ion Ratio Lower Upper

98 100

100 65.8 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.523 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

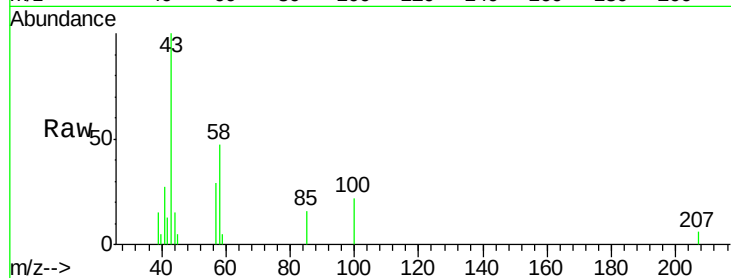
ClientSampled :

Tot Ion: 43 Resp: 6782

Ion Ratio Lower Upper

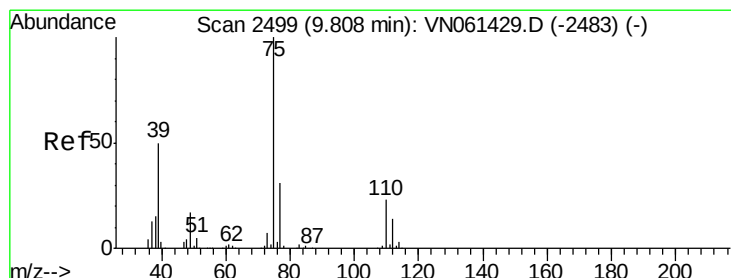
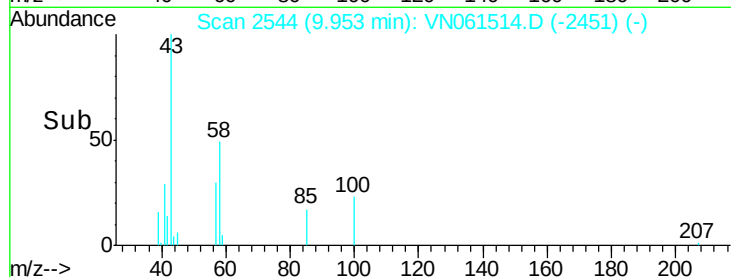
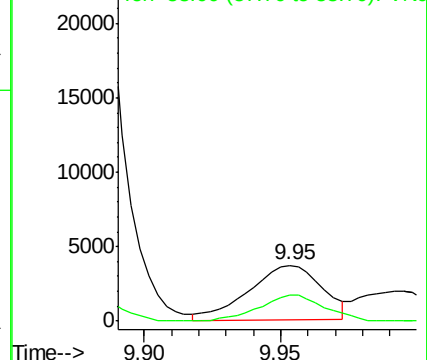
43 100

58 42.9 33.4 50.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.307 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

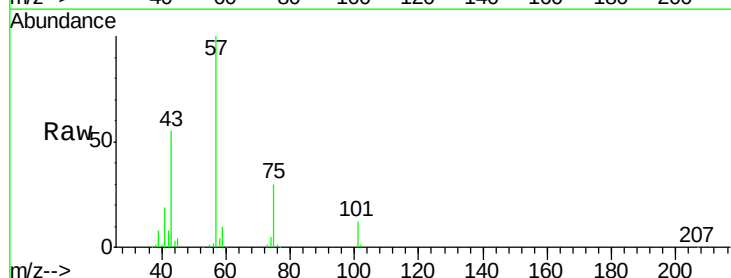
Tgt Ion: 75 Resp: 42303

Ion Ratio Lower Upper

75 100

77 1.0 24.8 37.2#

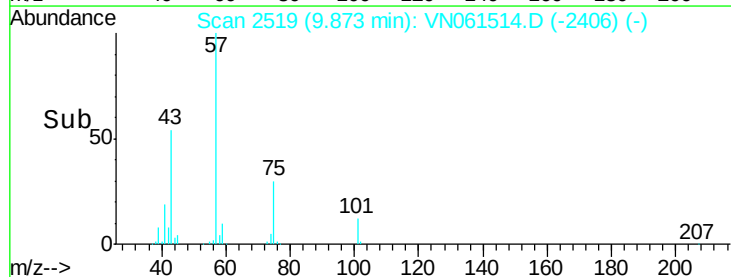
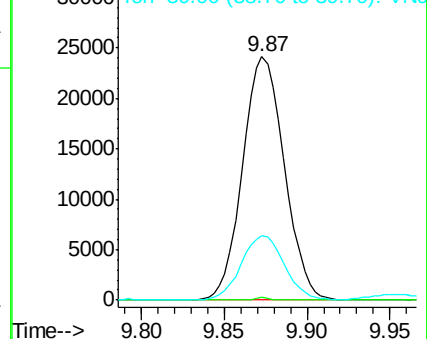
39 26.3 39.8 59.6#

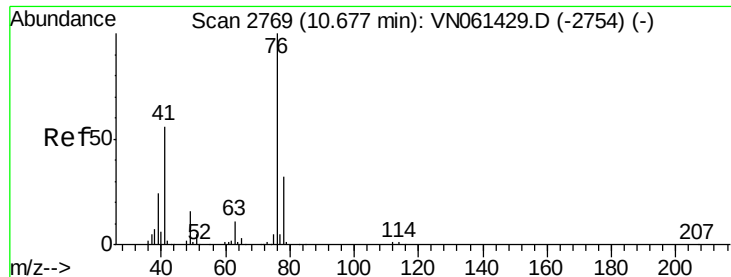


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.102 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

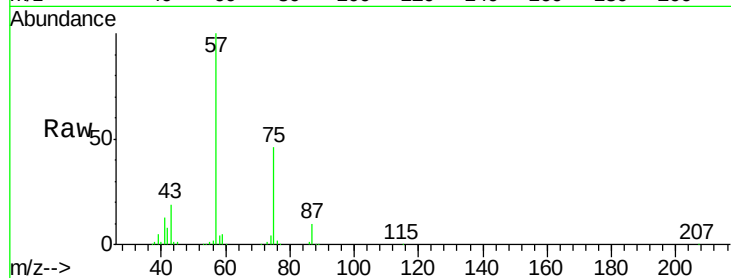
ClientSampled :

Tot Ion: 76 Resp: 7195

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.73

5000

4000

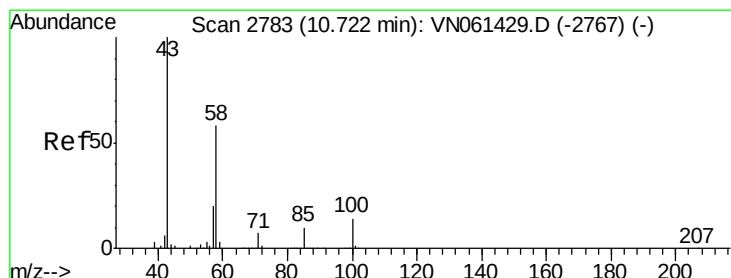
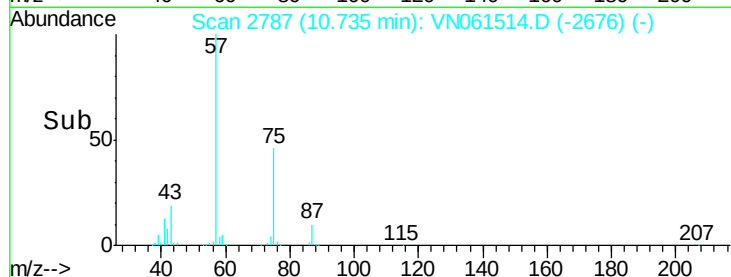
3000

2000

1000

0

Time-->



#59

2-Hexanone

Concen: 25.819 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061514.D

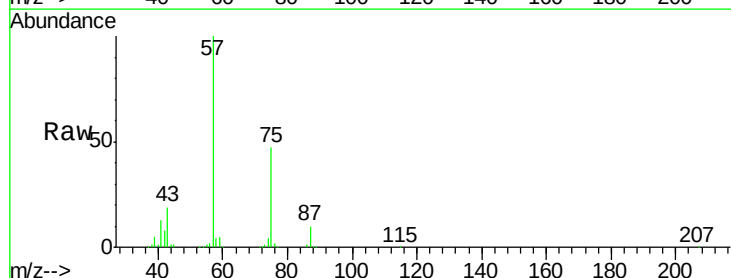
Acq: 20 May 2020 20:34

Tgt Ion: 43 Resp: 83162

Ion Ratio Lower Upper

43 100

58 20.2 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

60000

50000

40000

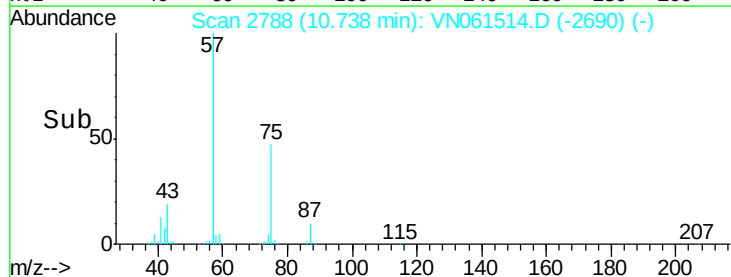
30000

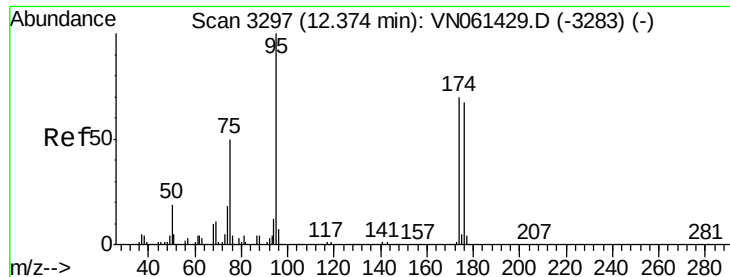
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 54.097 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

ClientSampled :

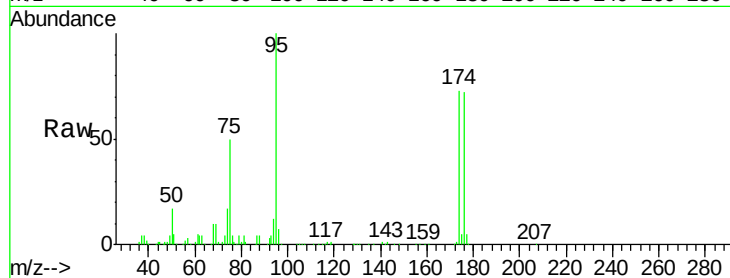
Tot Ion: 95 Resp: 271370

Ion Ratio Lower Upper

95 100

174 72.6 0.0 141.2

176 70.9 0.0 137.6

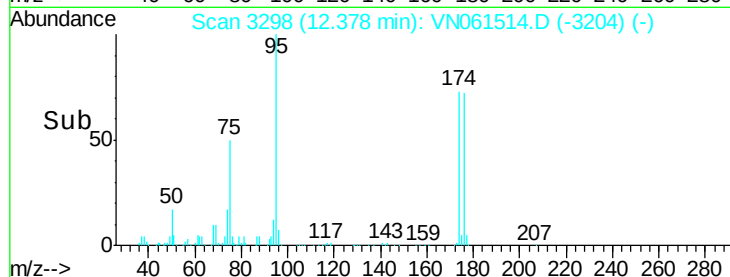


Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)

Time-->

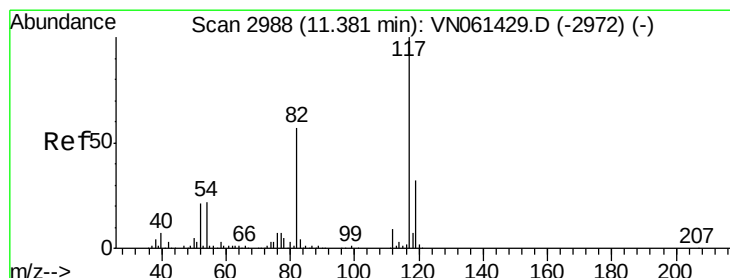


Abundance Ion 94.90 (94.60 to 95.60): VN061514.D (-3204) (-)

Ion 173.80 (173.50 to 174.50): VN061514.D (-3204) (-)

Ion 175.80 (175.50 to 176.50): VN061514.D (-3204) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

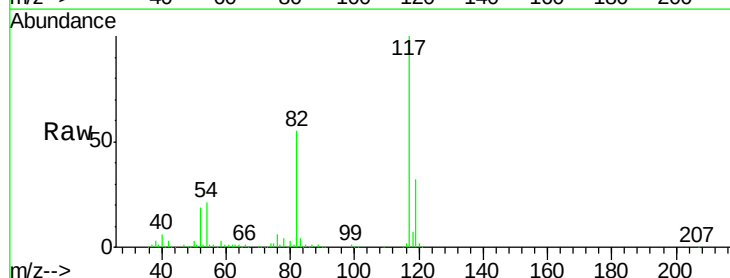
Tgt Ion: 117 Resp: 556069

Ion Ratio Lower Upper

117 100

82 55.3 45.2 67.8

119 32.2 25.3 37.9

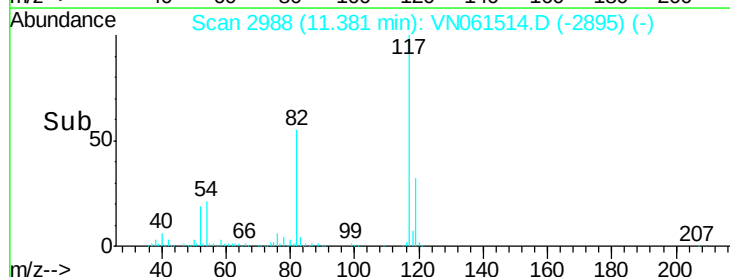


Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

Ion 82.00 (81.70 to 82.70): VN061429.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN061429.D (-2972) (-)

Time-->

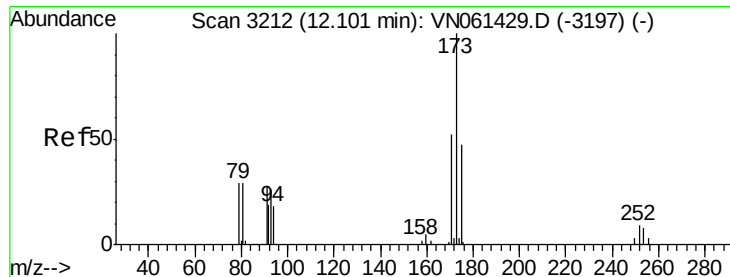


Abundance Ion 116.90 (116.60 to 117.60): VN061514.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061514.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061514.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 2.092 ug/l

RT: 12.36 min Scan# 3293

Delta R.T. 0.26 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

ClientSampleId :

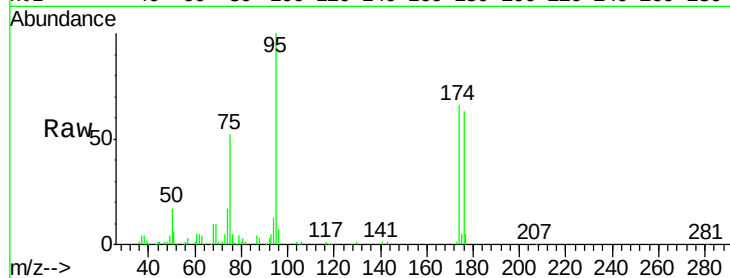
Tot Ion:173 Resp: 235

Ion Ratio Lower Upper

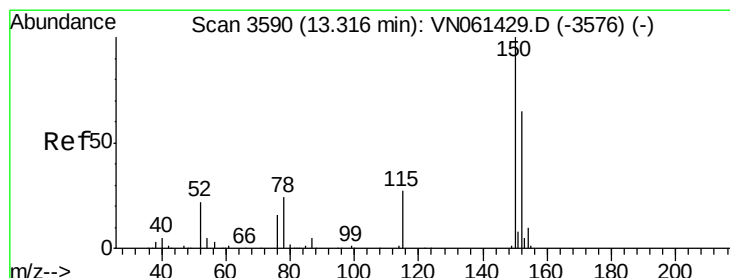
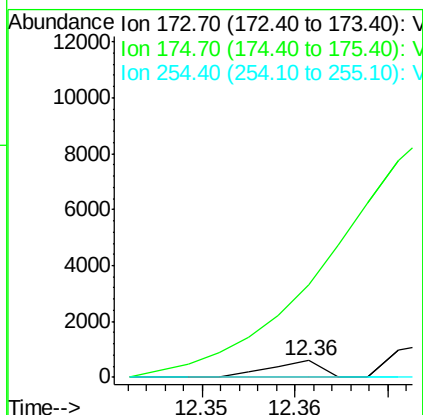
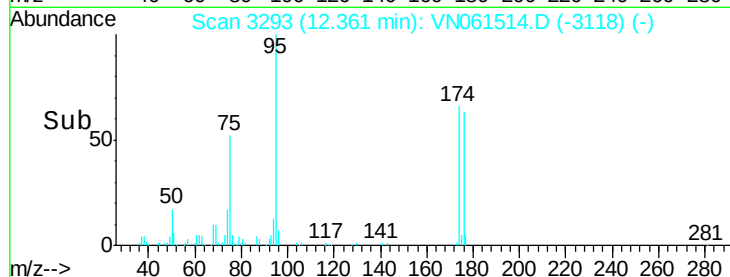
173 100

175 0.0 23.9 71.8#

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: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

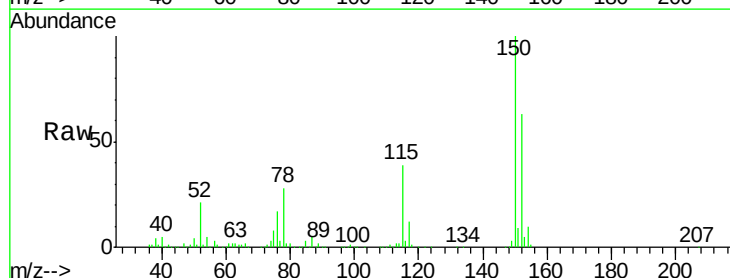
Tgt Ion:152 Resp: 249281

Ion Ratio Lower Upper

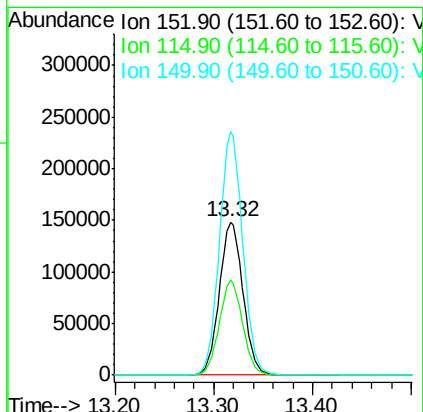
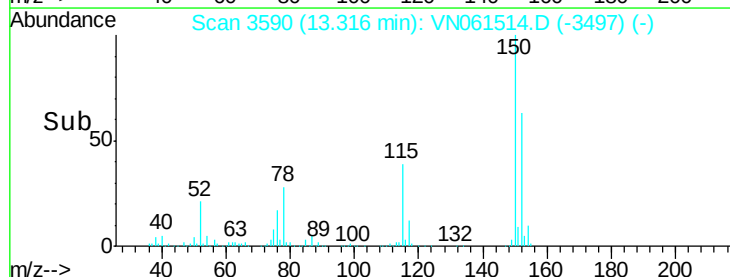
152 100

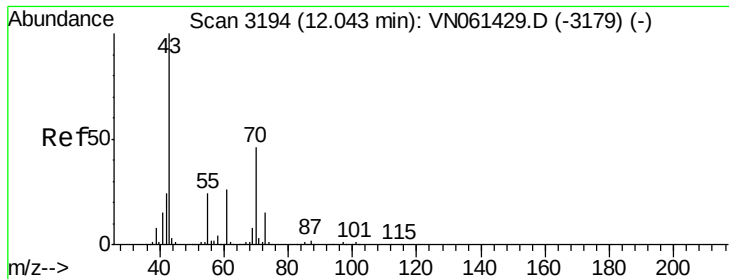
115 61.0 30.9 92.5

150 157.2 0.0 349.2



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: 0.536 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061514.D

Acq: 20 May 2020 20:34

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3927

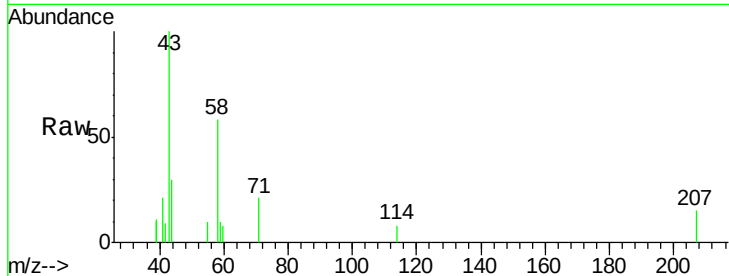
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 3.4 19.5 29.3#

61 0.0 20.8 31.2#

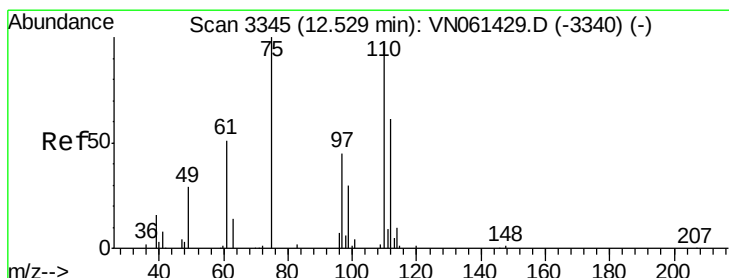
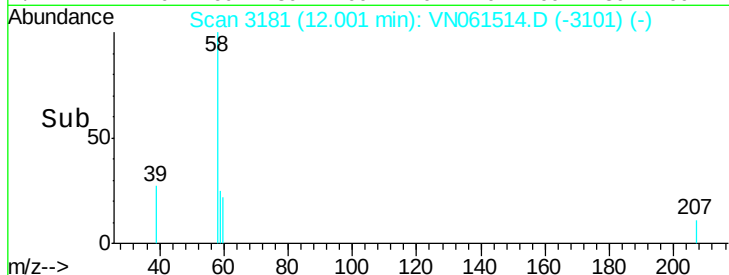
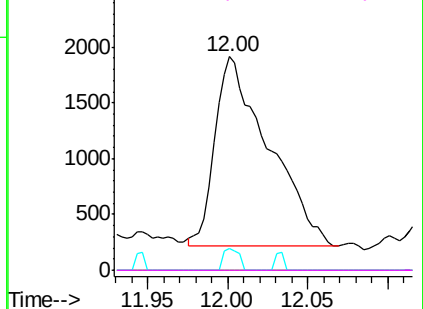


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.511 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061514.D

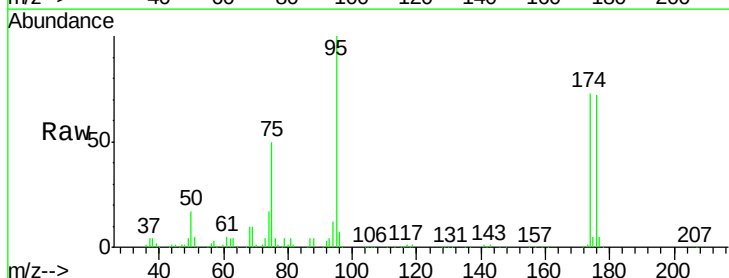
Acq: 20 May 2020 20:34

Tgt Ion: 75 Resp: 136455

Ion Ratio Lower Upper

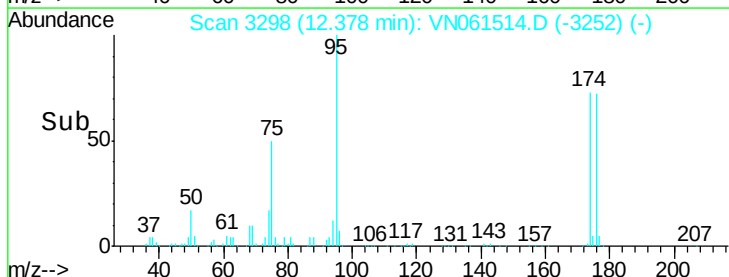
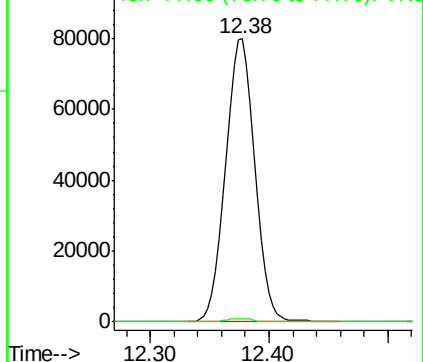
75 100

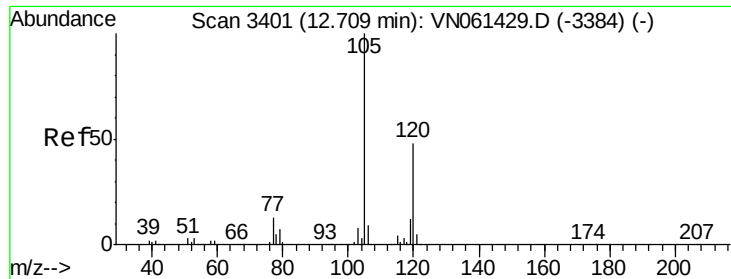
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

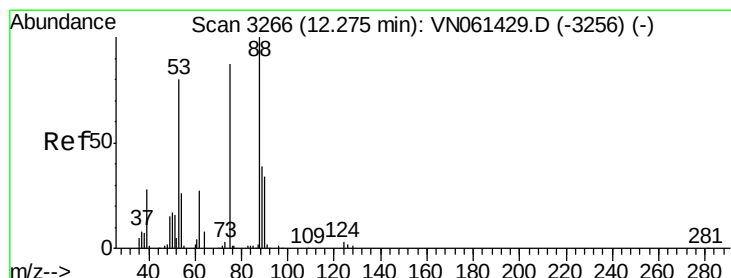
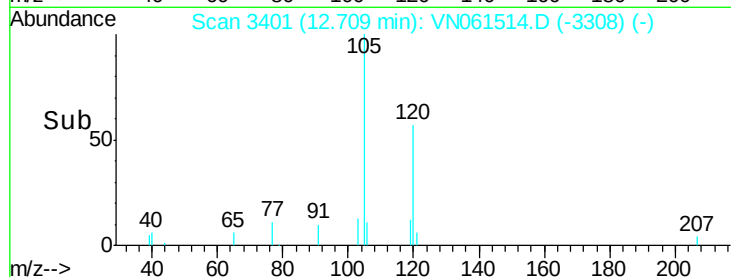
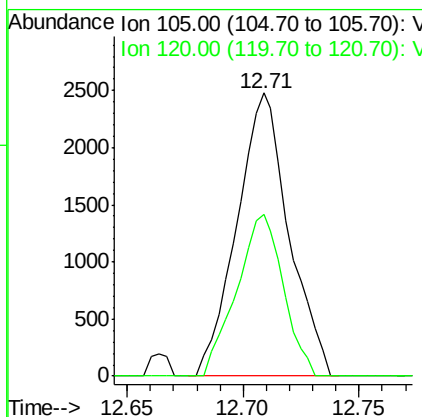
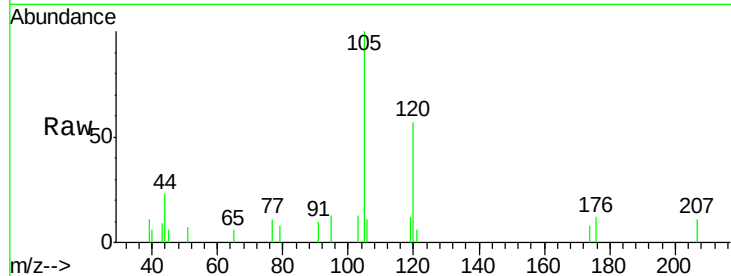




#80
 1,3,5-Trimethylbenzene
 Concen: 0.236 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:105 Resp: 3872
 Ion Ratio Lower Upper
 105 100
 120 51.2 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.674 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061514.D
 Acq: 20 May 2020 20:34

Tgt Ion: 75 Resp: 136455
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.2 112.8#
 89 0.0 38.2 57.4#

