

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060220\
 Data File : VN061623.D
 Acq On : 2 Jun 2020 16:49
 Operator : JC/MD
 Sample : L2504-04
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 03 00:51:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	308827	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.54	114	520273	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	508995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	267732	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	173680	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
35) Dibromofluoromethane	7.54	113	129885	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	10.06	98	625822	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.38	95	247770	55.53	ug/l	0.00
Spiked Amount			Recovery	=	111.06%	

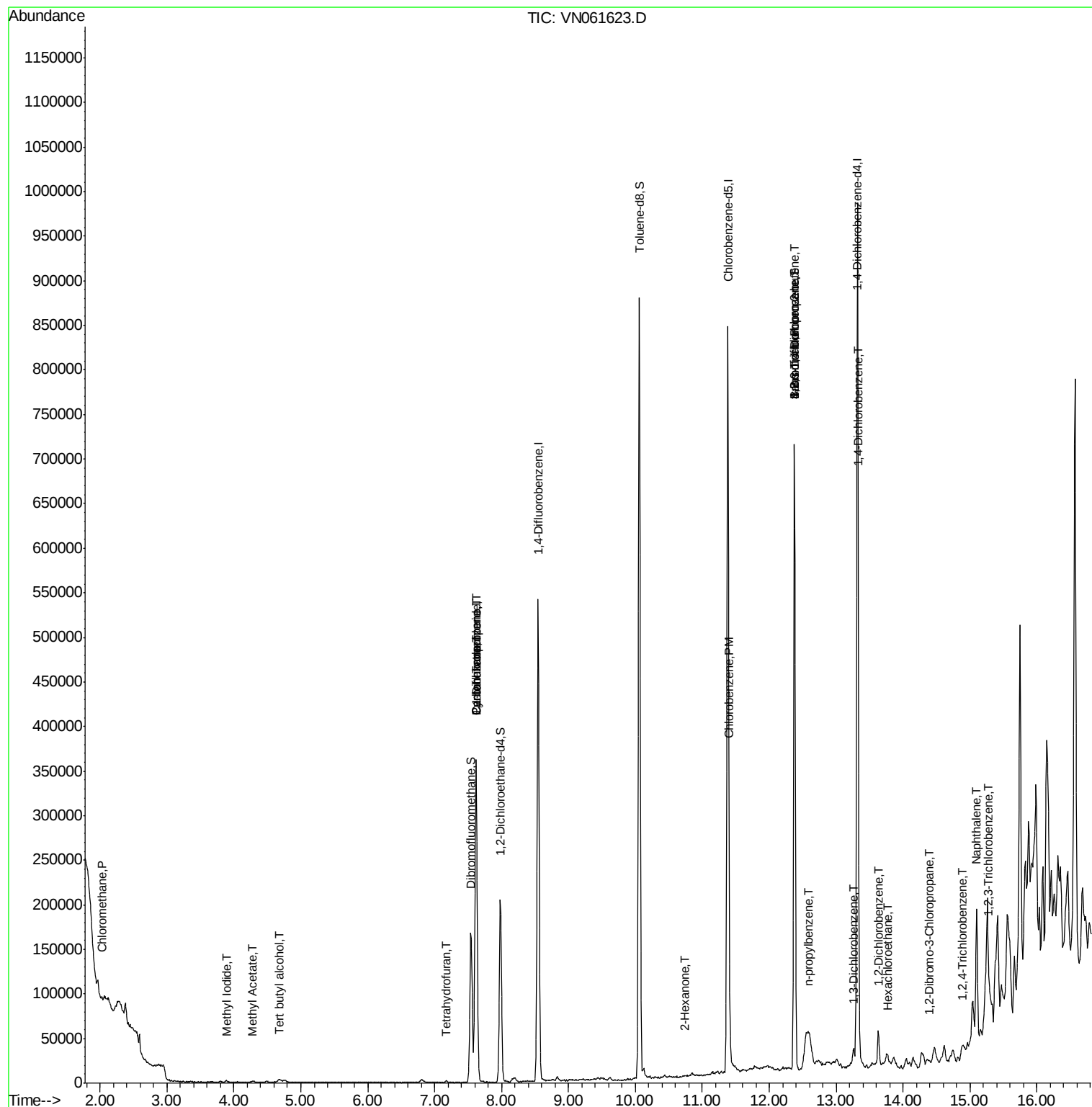
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1724	0.458	ug/l	97
10) Methyl Iodide	3.89	142	3051	0.744	ug/l #	85
11) Tert butyl alcohol	4.67	59	1085	2.217	ug/l #	72
16) Acetone	3.78	43	1077	Below Cal	#	41
18) Methyl Acetate	4.29	43	3226	0.969	ug/l #	70
20) Methylene Chloride	4.48	84	579	Below Cal	#	89
29) Tetrahydrofuran	7.17	42	1299	1.130	ug/l #	77
31) Cyclohexane	7.62	56	5719	1.103	ug/l #	6
36) 1,1-Dichloropropene	7.62	75	21352	4.636	ug/l #	44
38) Carbon Tetrachloride	7.62	117	30383	6.839	ug/l #	16
59) 2-Hexanone	10.73	43	637	0.236	ug/l	83
65) Chlorobenzene	11.41	112	31521	2.979	ug/l	98
71) Bromoform	12.38	173	1724	0.568	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	123035	25.272	ug/l #	100
78) n-propylbenzene	12.57	91	4483	0.206	ug/l #	71
81) trans-1,4-Dichloro-2-buten	12.38	75	123035	64.628	ug/l #	15
87) 1,3-Dichlorobenzene	13.26	146	5998	0.679	ug/l	92
88) 1,4-Dichlorobenzene	13.34	146	19543	2.172	ug/l	82
90) Hexachloroethane	13.77	117	423	0.223	ug/l	61
91) 1,2-Dichlorobenzene	13.63	146	14969	1.773	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.39	75	292	0.261	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.89	180	1493	0.302	ug/l #	73
95) Naphthalene	15.11	128	5834	0.388	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.28	180	1374	0.283	ug/l #	25

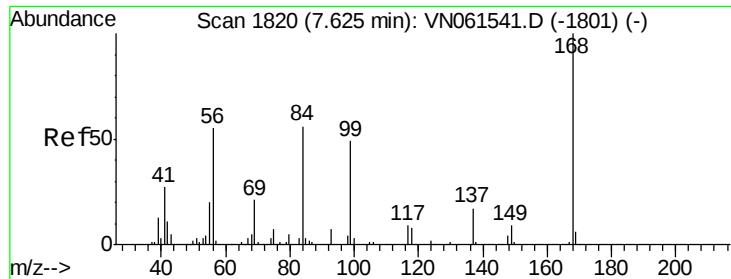
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060220\
Data File : VN061623.D
Acq On : 2 Jun 2020 16:49
Operator : JC/MD
Sample : L2504-04
Misc : 5.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 03 00:51:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.01 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

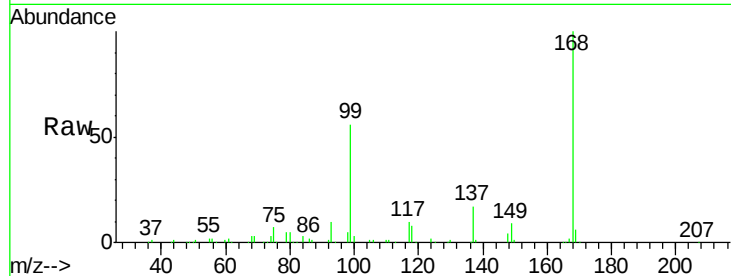
ClientSampleId :

Tot Ion:168 Resp: 308827

Ion Ratio Lower Upper

168 100

99 55.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061541.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061541.D (-1801) (-)

7.62

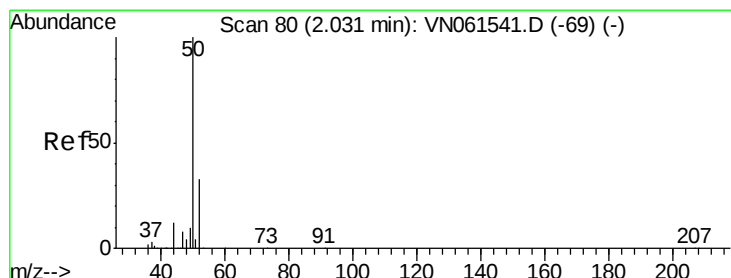
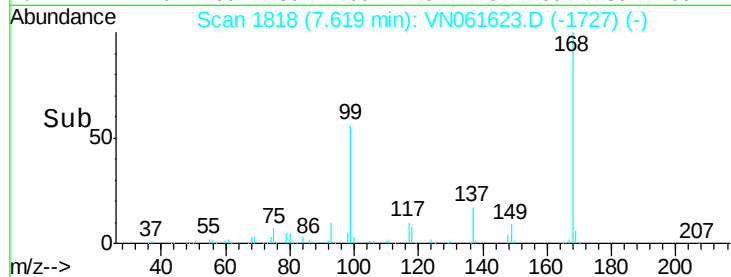
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.458 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN061623.D

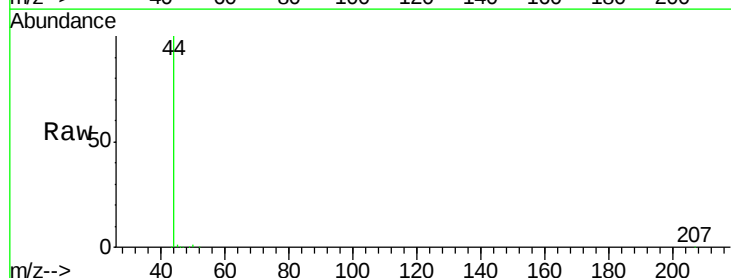
Acq: 2 Jun 2020 16:49

Tgt Ion: 50 Resp: 1724

Ion Ratio Lower Upper

50 100

52 31.7 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN061541.D (-69) (-)

Ion 51.90 (51.60 to 52.60): VN061541.D (-69) (-)

2.03

1000

800

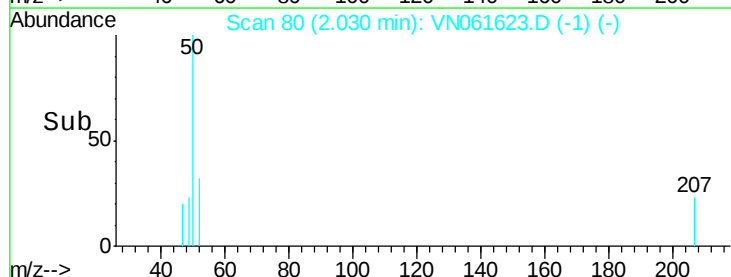
600

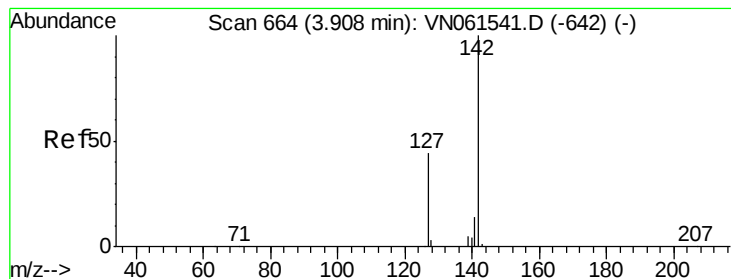
400

200

0

Time-->





#10

Methvl Iodide

Concen: 0.744 ug/l

RT: 3.89 min Scan# 657

Delta R.T. -0.02 min

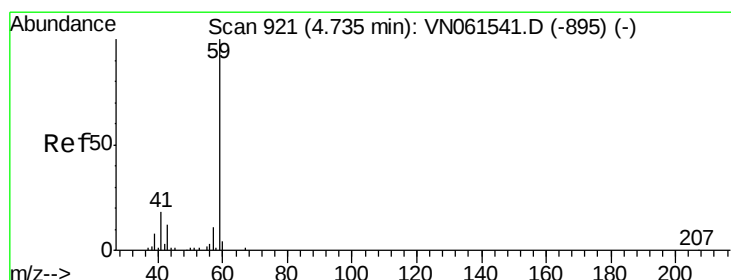
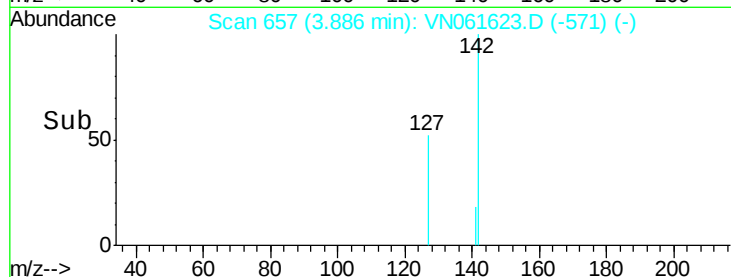
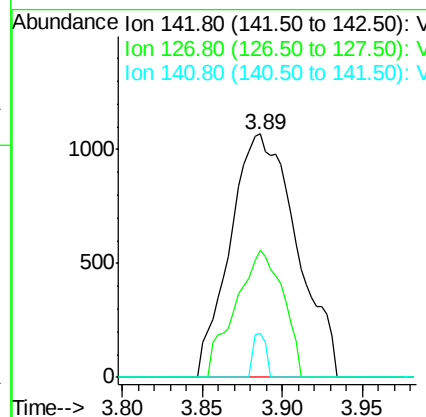
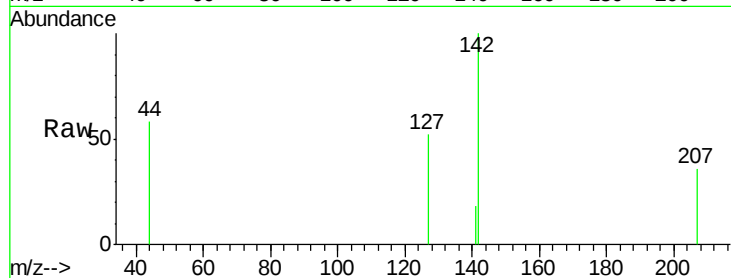
Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:142 Resp: 3051

Ion	Ratio	Lower	Upper
142	100		
127	37.3	35.5	53.3
141	3.4	11.5	17.3#



#11

Tert butyl alcohol

Concen: 2.217 ug/l

RT: 4.67 min Scan# 900

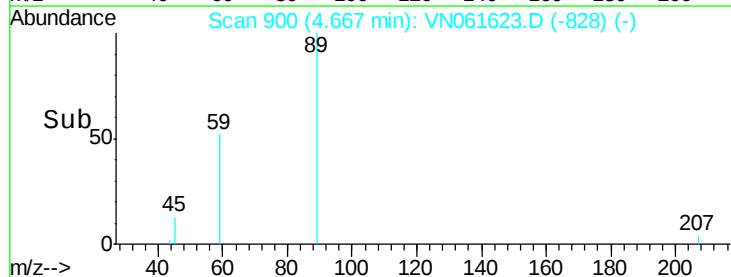
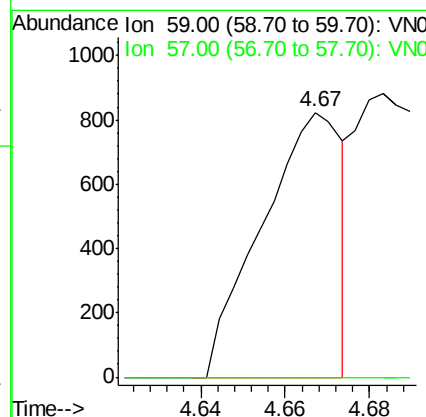
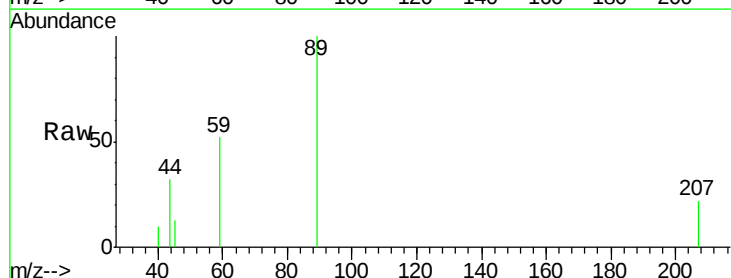
Delta R.T. -0.07 min

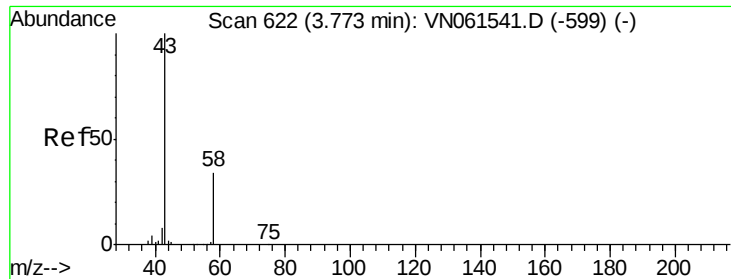
Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Tgt Ion: 59 Resp: 1085

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

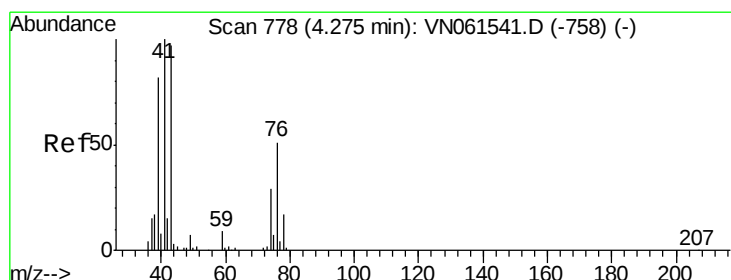
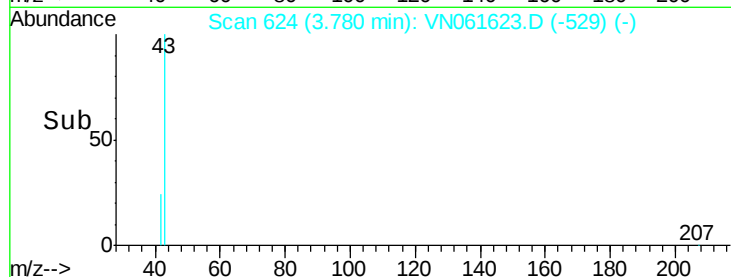
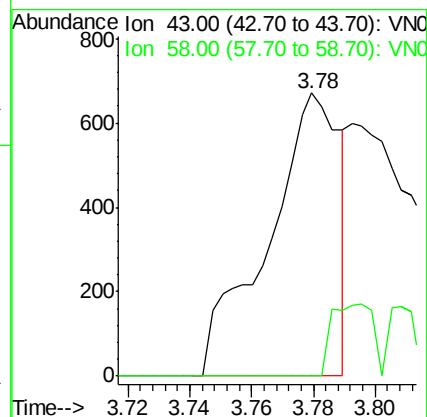
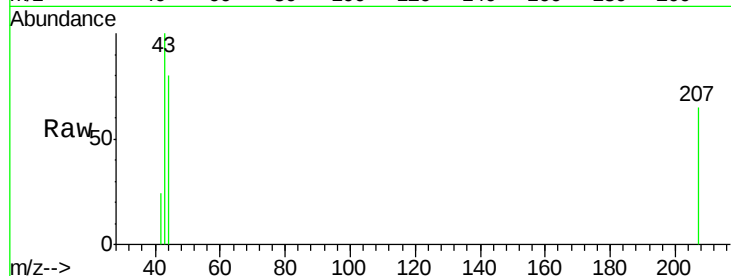
ClientSampleId :

Tot Ion: 43 Resp: 1077

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#



#18

Methyl Acetate

Concen: 0.969 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.02 min

Lab File: VN061623.D

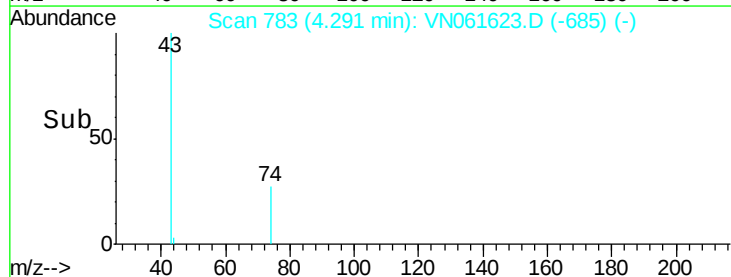
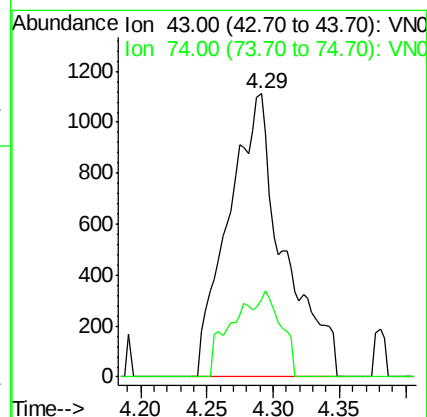
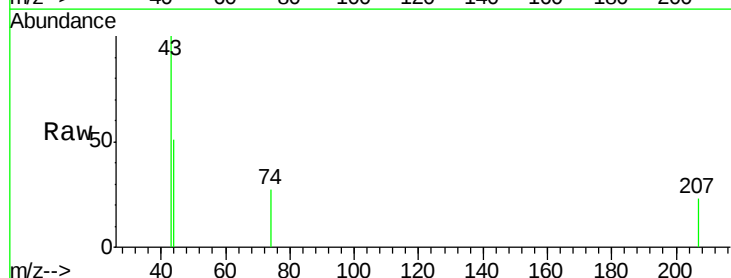
Acq: 2 Jun 2020 16:49

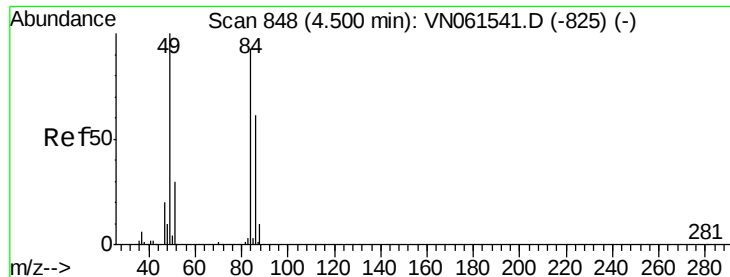
Tgt Ion: 43 Resp: 3226

Ion Ratio Lower Upper

43 100

74 13.1 23.2 34.8#

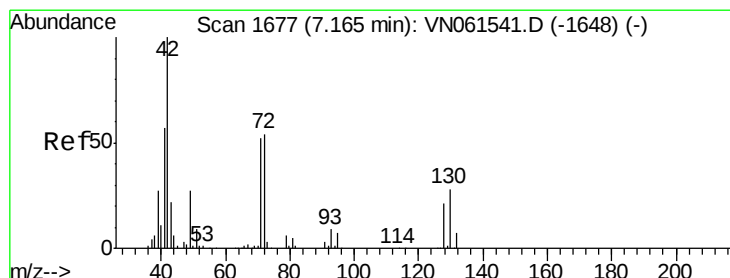
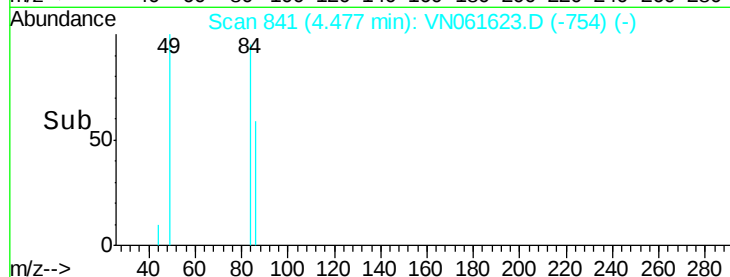
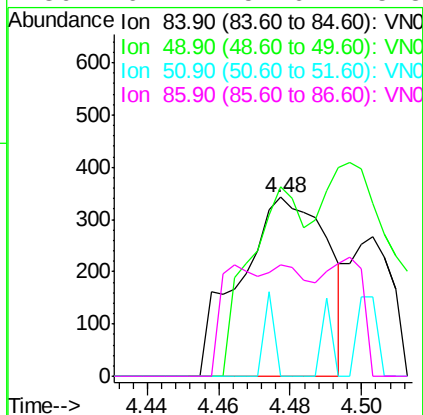
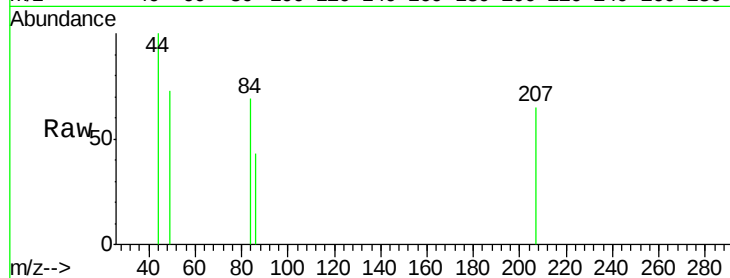




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.48 min Scan# 841
Delta R.T. -0.02 min
Lab File: VN061623.D
Acq: 2 Jun 2020 16:49

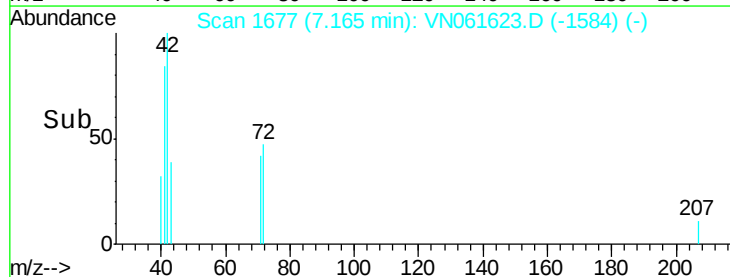
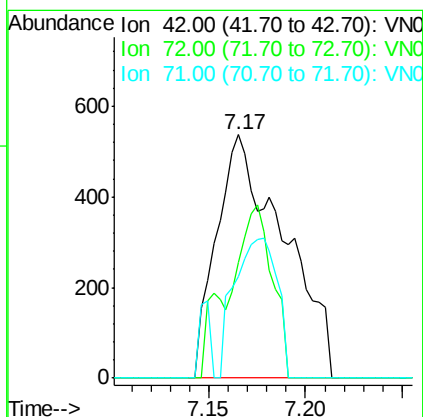
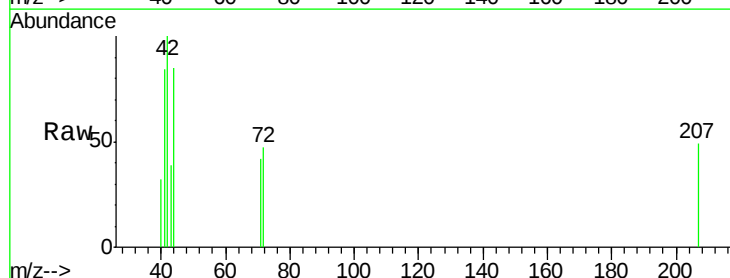
Instrument :
MSVOA_N
ClientSampled :

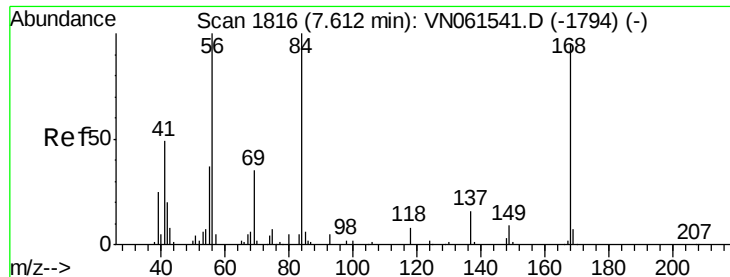
Tot Ion: 84 Resp: 579
Ion Ratio Lower Upper
84 100
49 105.5 85.8 128.8
51 0.0 26.2 39.2#
86 62.4 52.6 78.8



#29
Tetrahydrofuran
Concen: 1.130 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN061623.D
Acq: 2 Jun 2020 16:49

Tgt Ion: 42 Resp: 1299
Ion Ratio Lower Upper
42 100
72 36.2 43.6 65.4#
71 36.7 41.2 61.8#





#31

Cyclohexane

Concen: 1.103 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

ClientSampled :

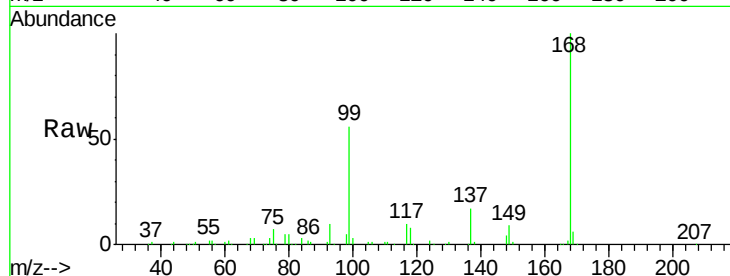
Tot Ion: 56 Resp: 5719

Ion Ratio Lower Upper

56 100

69 168.8 27.8 41.8#

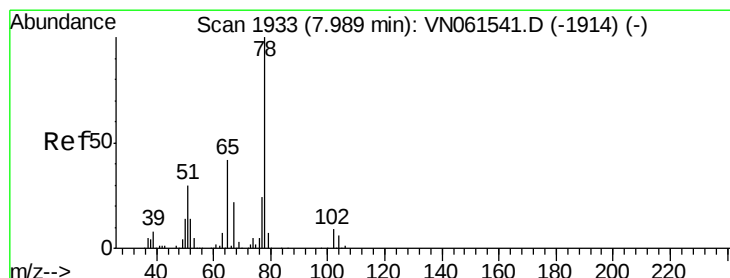
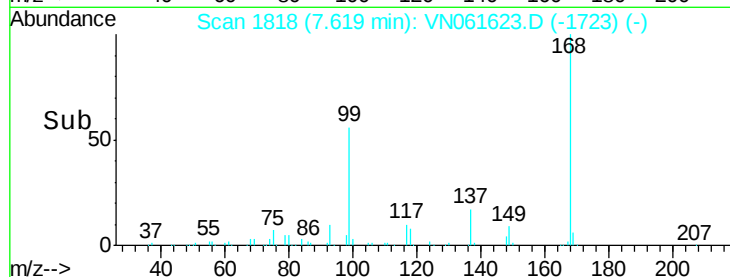
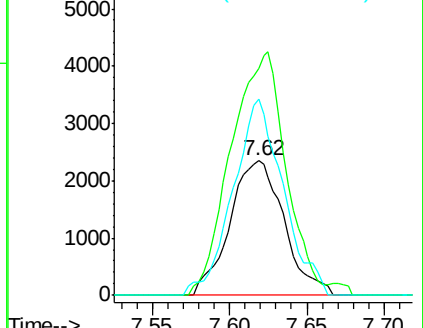
84 146.2 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061541.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061541.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061541.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.202 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.01 min

Lab File: VN061623.D

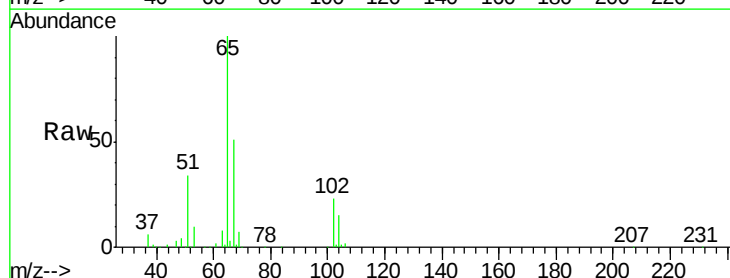
Acq: 2 Jun 2020 16:49

Tgt Ion: 65 Resp: 173680

Ion Ratio Lower Upper

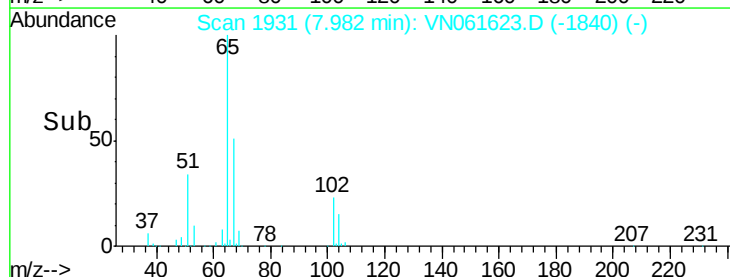
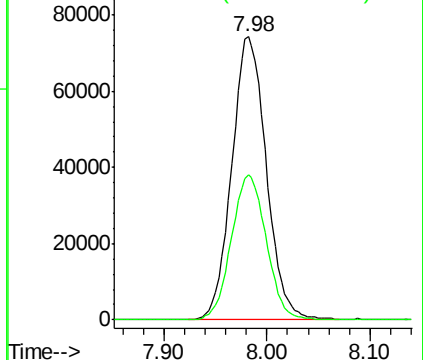
65 100

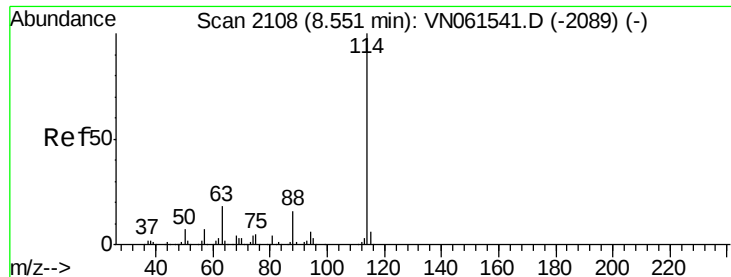
67 51.8 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061541.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN061541.D (-1914) (-)

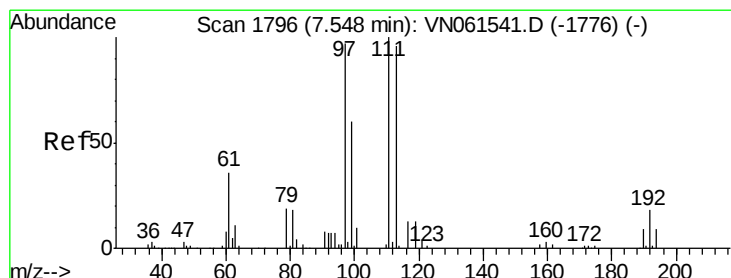
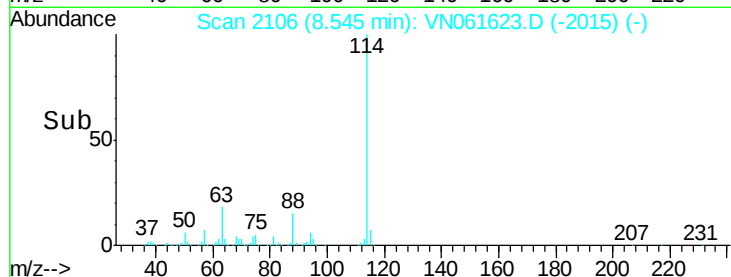
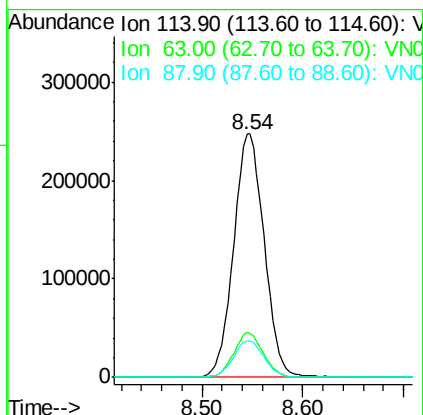
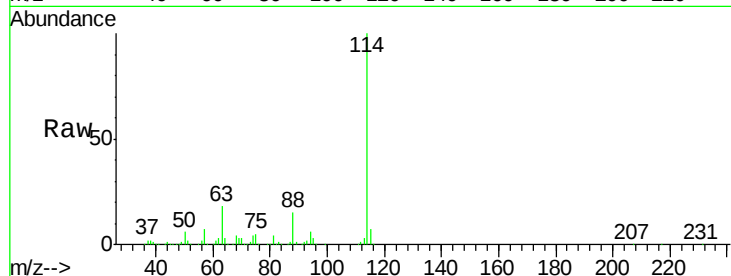




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.54 min Scan# 2106
 Delta R.T. -0.01 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

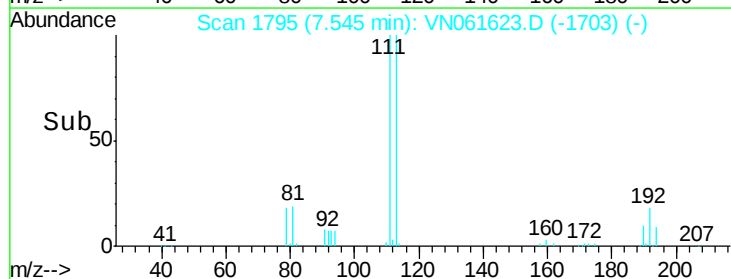
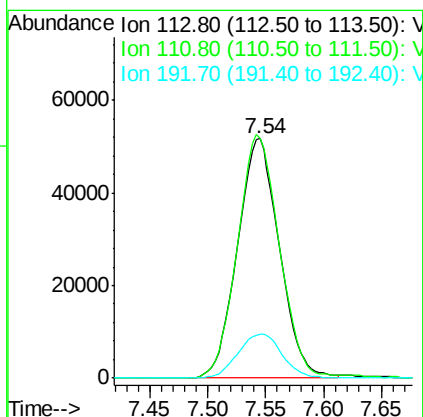
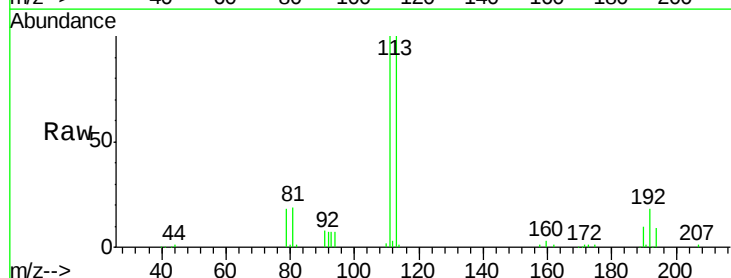
Instrument :
 MSVOA_N
 ClientSampleId :

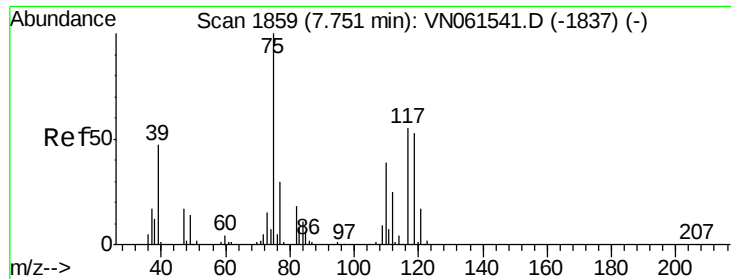
Tot Ion:114 Resp: 520273
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 35.8
 88 15.1 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 49.213 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

Tgt Ion:113 Resp: 129885
 Ion Ratio Lower Upper
 113 100
 111 101.5 83.4 125.0
 192 19.2 15.4 23.2

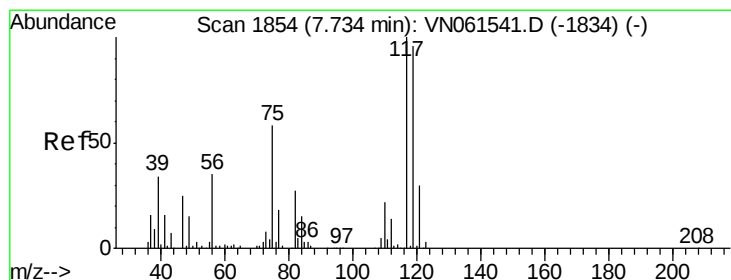
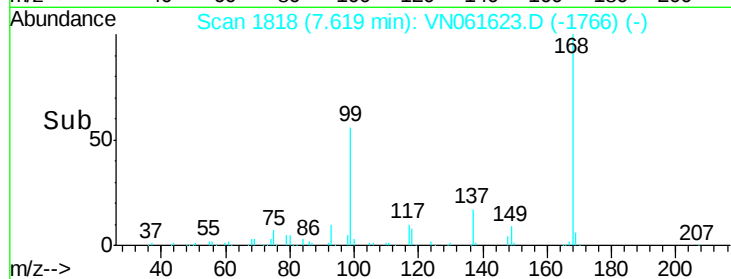
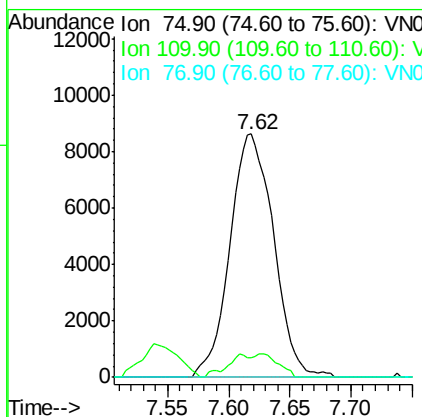
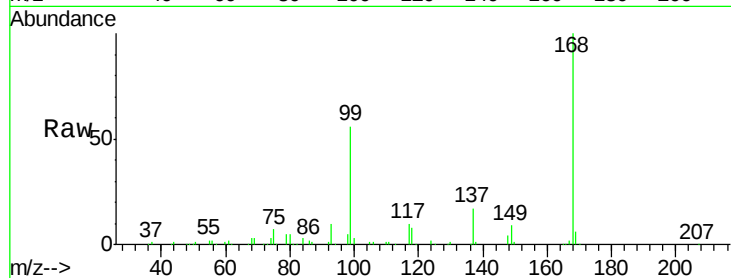




#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

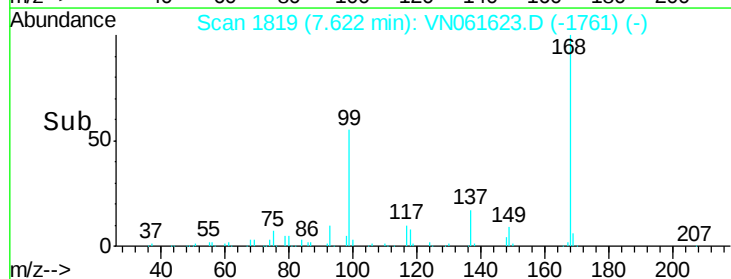
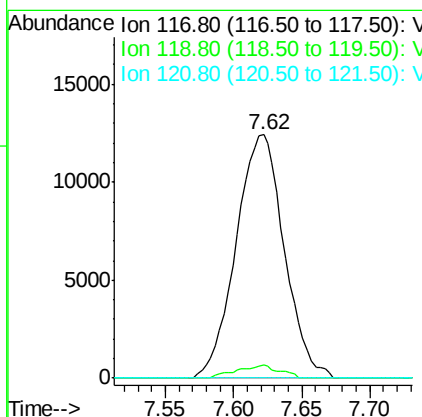
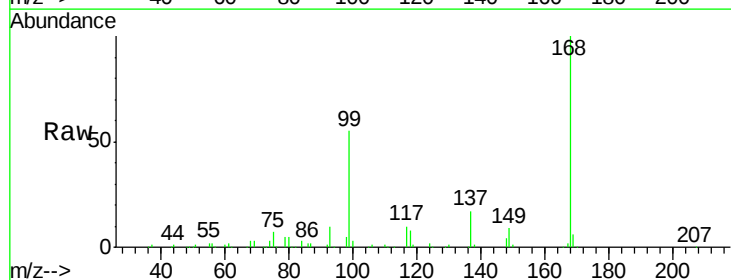
Instrument :
 MSVOA_N
 ClientSampled :

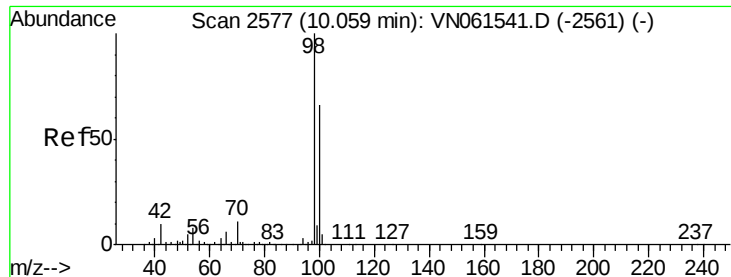
Tot Ion	75	Resp	21352
Ion Ratio	100	Lower	Upper
75	100		
110	5.3	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.839 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

Tgt Ion	117	Resp	30383
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.2	76.5	114.7#
121	0.0	24.1	36.1#





#50

Toluene-d8

Concen: 51.168 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

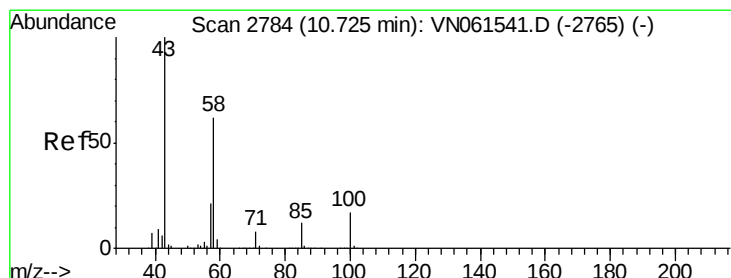
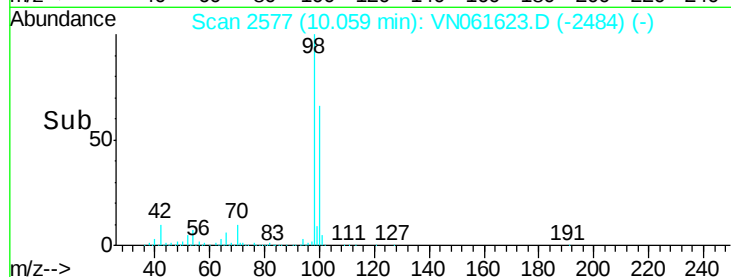
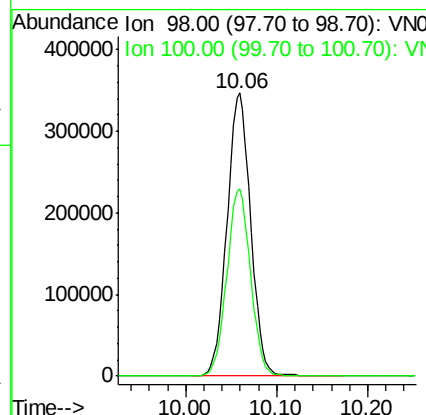
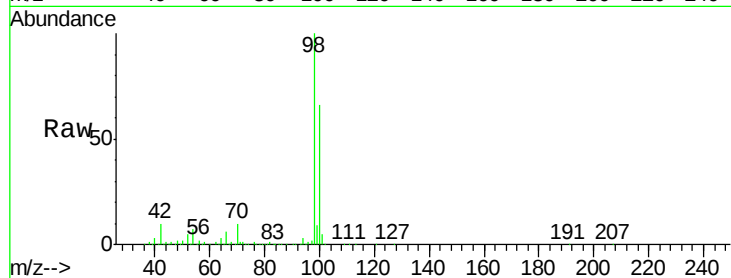
ClientSampled :

Tot Ion: 98 Resp: 625822

Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



#59

2-Hexanone

Concen: 0.236 ug/l

RT: 10.73 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VN061623.D

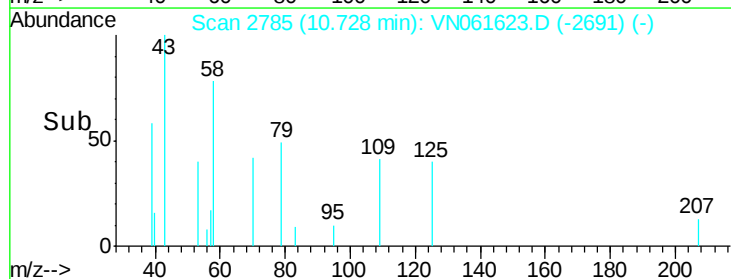
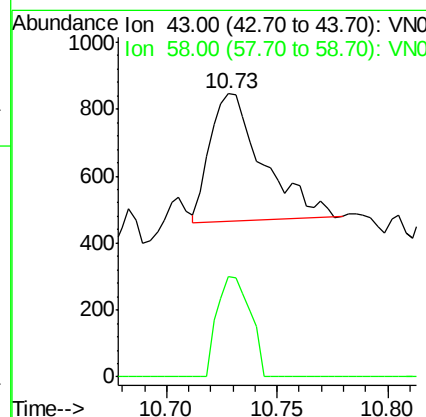
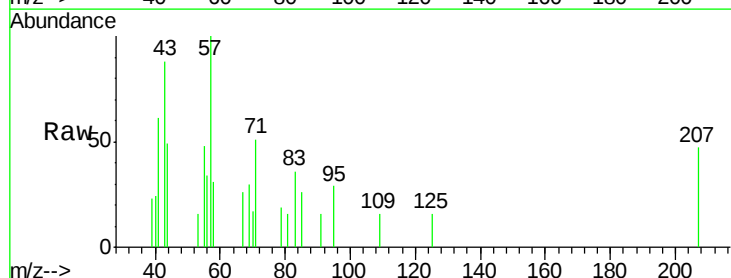
Acq: 2 Jun 2020 16:49

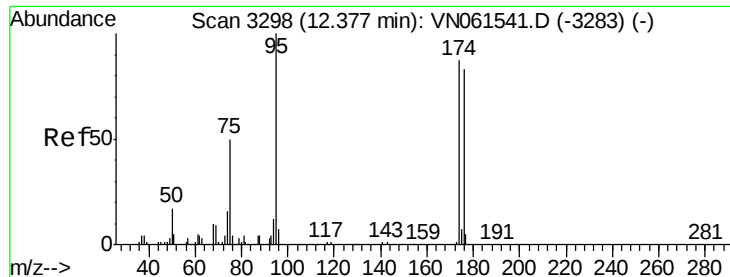
Tgt Ion: 43 Resp: 637

Ion Ratio Lower Upper

43 100

58 48.5 30.7 92.1

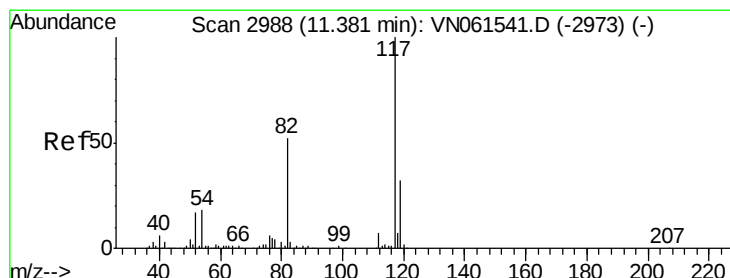
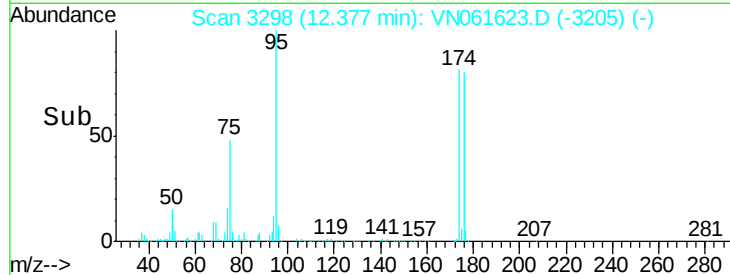
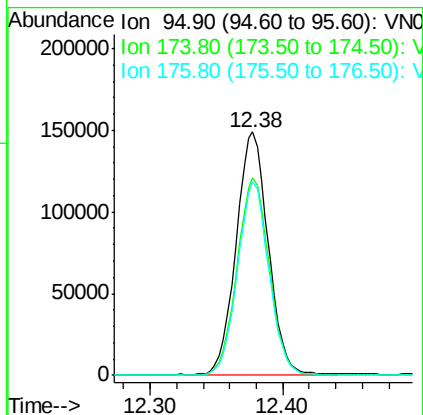
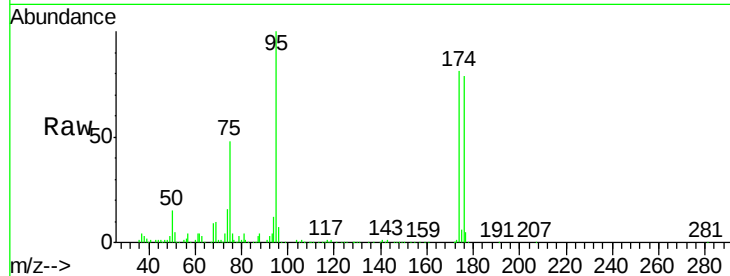




#62
4-Bromofluorobenzene
Concen: 55.527 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061623.D
Acq: 2 Jun 2020 16:49

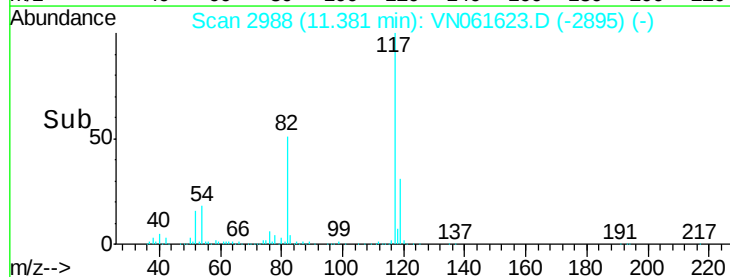
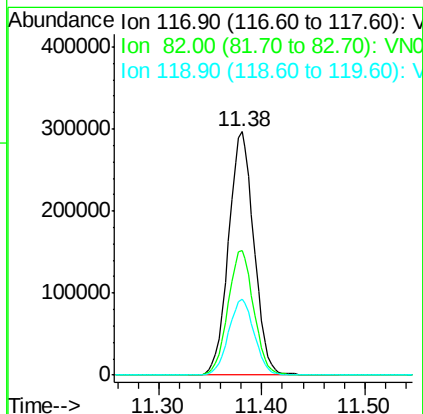
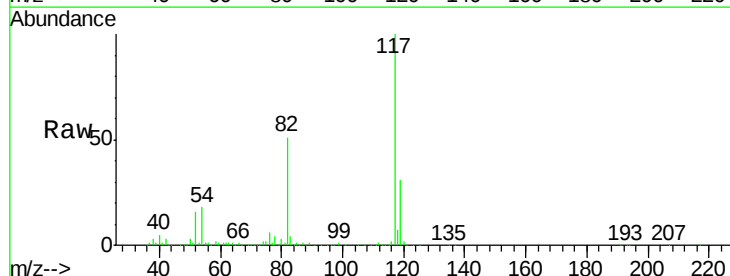
Instrument :
MSVOA_N
ClientSampled :

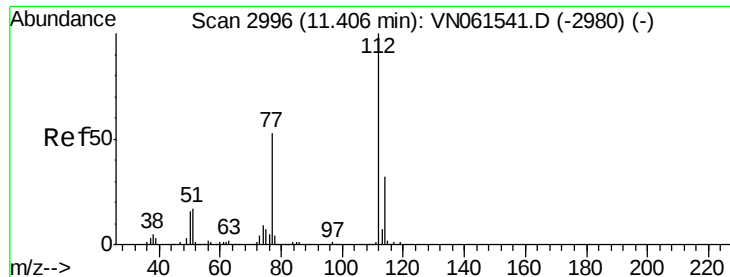
Tot Ion: 95 Resp: 247770
Ion Ratio Lower Upper
95 100
174 82.6 0.0 172.8
176 78.6 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061623.D
Acq: 2 Jun 2020 16:49

Tgt Ion: 117 Resp: 508995
Ion Ratio Lower Upper
117 100
82 51.2 41.5 62.3
119 31.3 25.6 38.4





#65

Chlorobenzene

Concen: 2.979 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

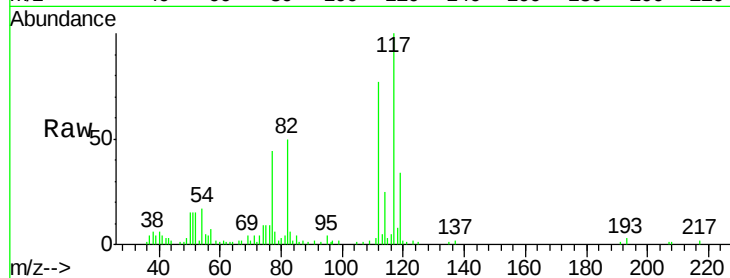
ClientSampleId :

Tot Ion:112 Resp: 31521

Ion Ratio Lower Upper

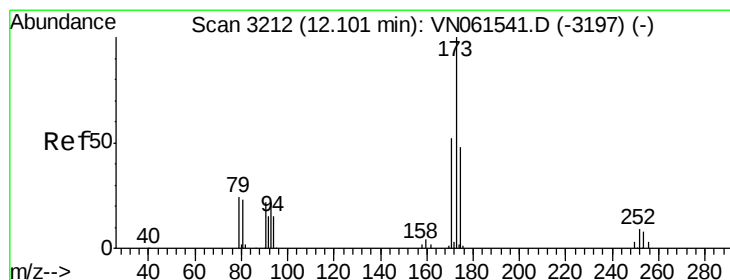
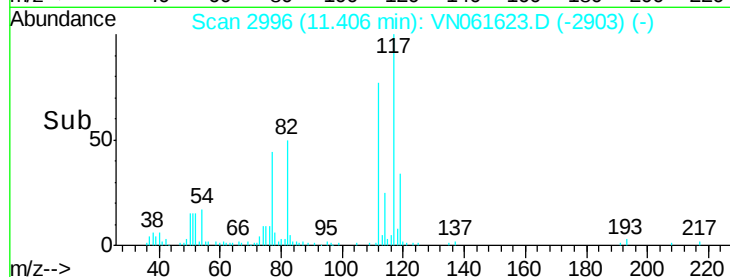
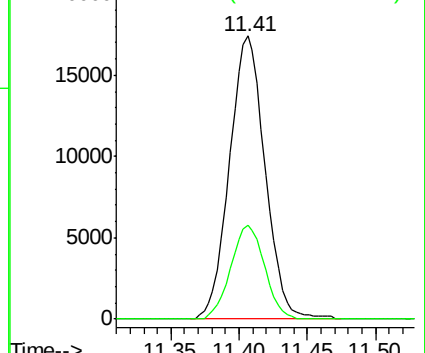
112 100

114 33.0 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 0.568 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

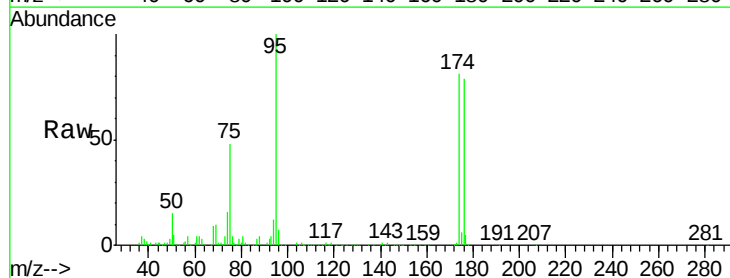
Tgt Ion:173 Resp: 1724

Ion Ratio Lower Upper

173 100

175 716.5 24.4 73.2#

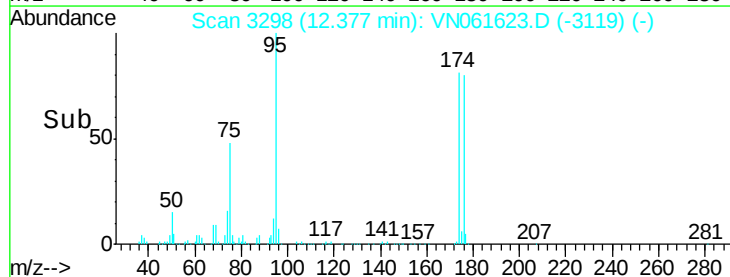
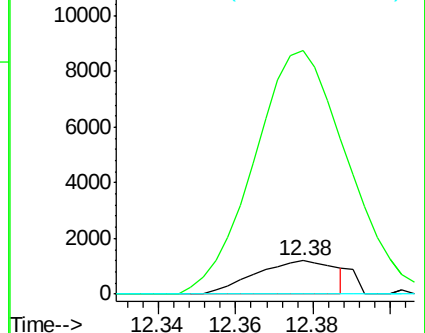
254 0.0 0.0 0.0

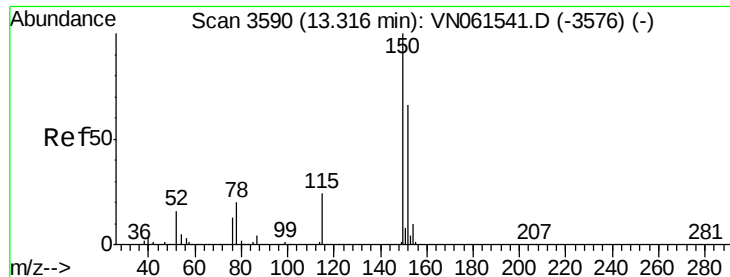


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3591

Delta R.T. 0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

ClientSampled :

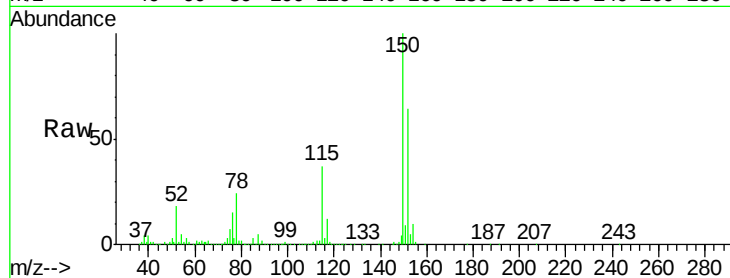
Tot Ion:152 Resp: 267732

Ion Ratio Lower Upper

152 100

115 58.4 28.0 84.0

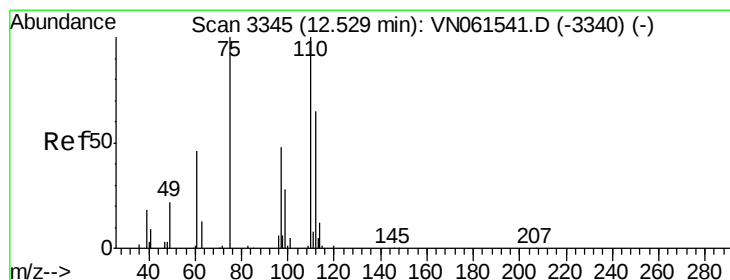
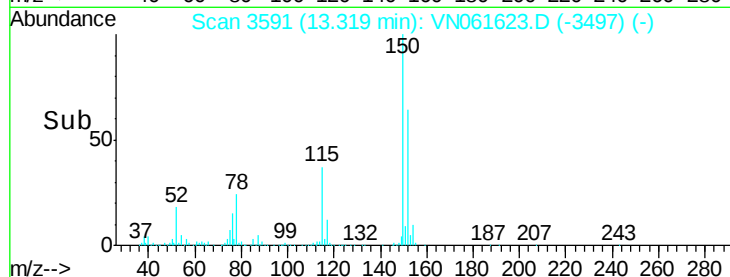
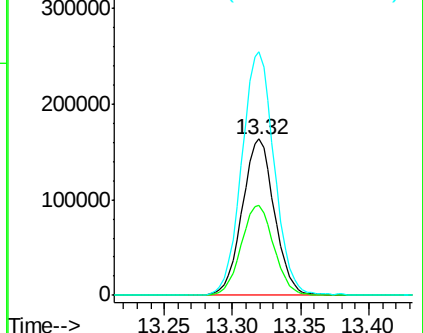
150 156.5 0.0 344.0



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



#76

1,2,3-Trichloropropane

Concen: 25.272 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061623.D

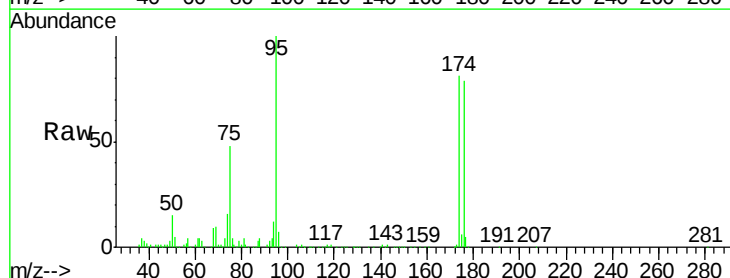
Acq: 2 Jun 2020 16:49

Tgt Ion: 75 Resp: 123035

Ion Ratio Lower Upper

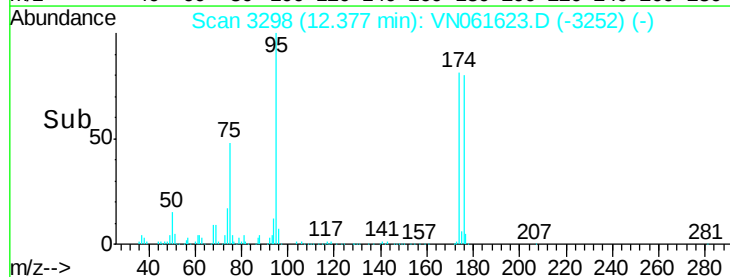
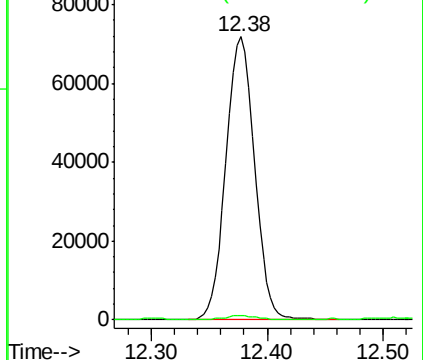
75 100

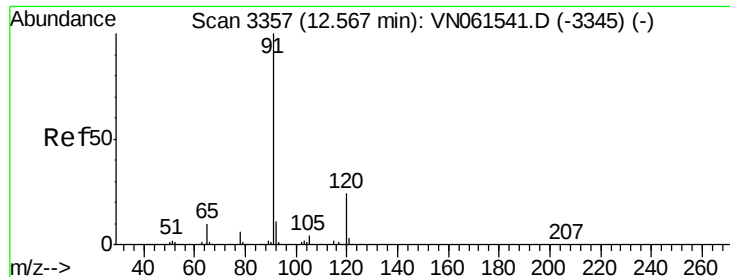
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#78

n-propylbenzene

Concen: 0.206 ug/l

RT: 12.57 min Scan# 3358

Delta R.T. 0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

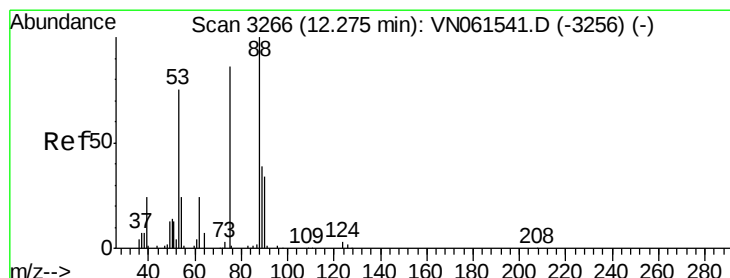
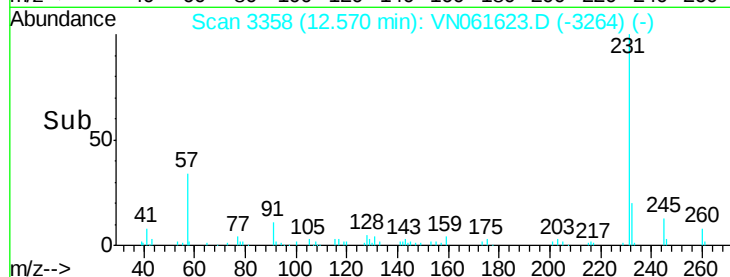
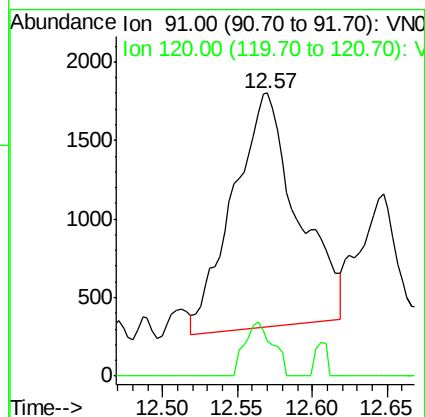
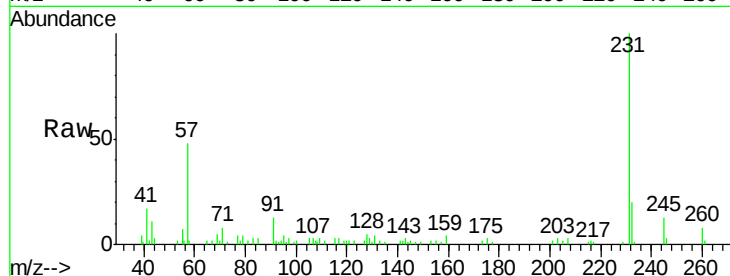
ClientSampleId :

Tot Ion: 91 Resp: 4483

Ion Ratio Lower Upper

91 100

120 10.0 12.3 36.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.628 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

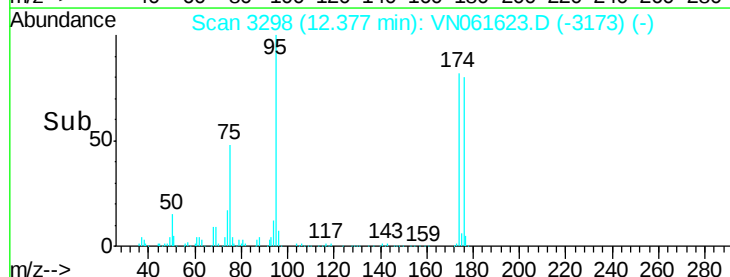
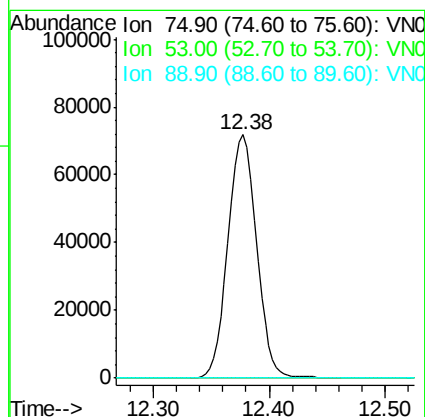
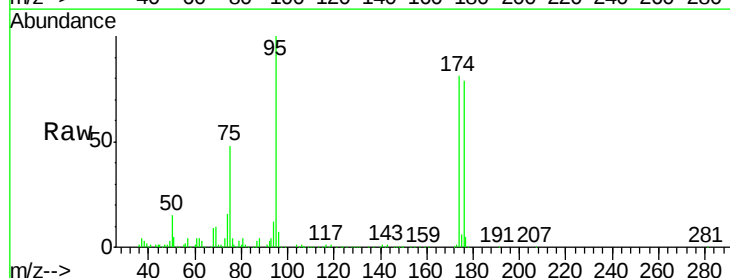
Tgt Ion: 75 Resp: 123035

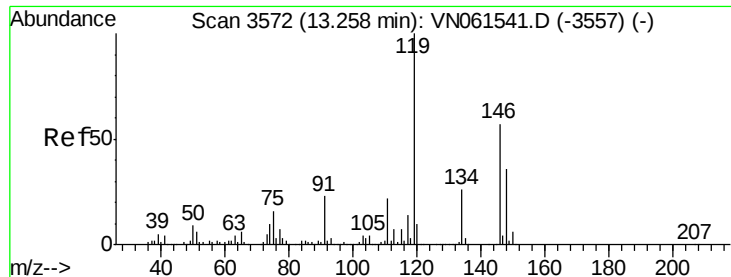
Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

89 0.0 37.1 55.7#

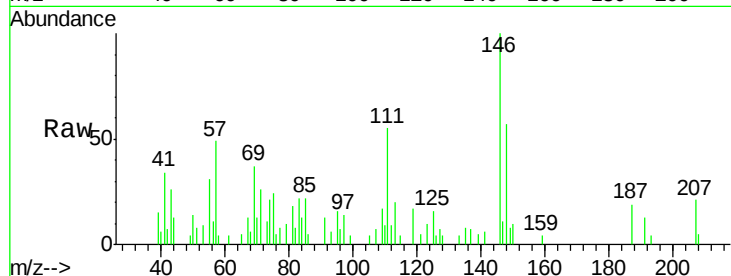




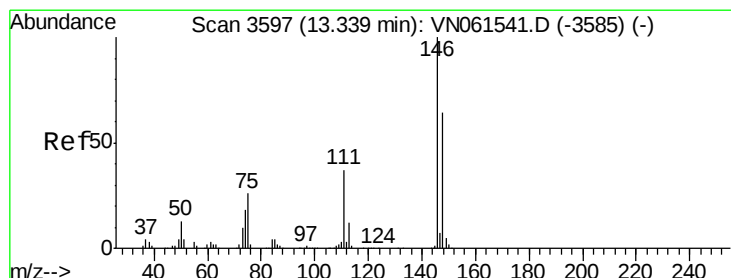
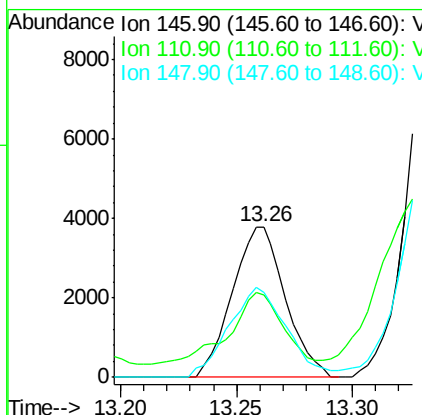
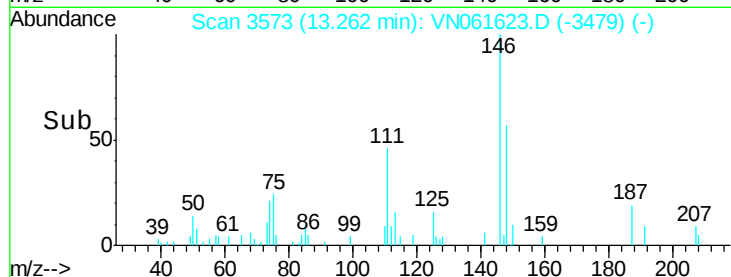
#87
 1,3-Dichlorobenzene
 Concen: 0.679 ug/l
 RT: 13.26 min Scan# 3573
 Delta R.T. 0.00 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 5998
 Ion Ratio Lower Upper
 146 100
 111 48.2 19.2 57.6
 148 65.5 31.7 95.1

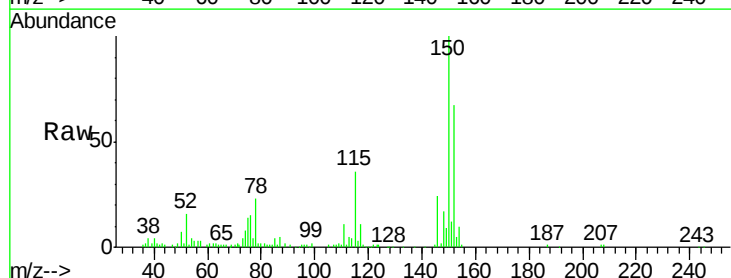


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

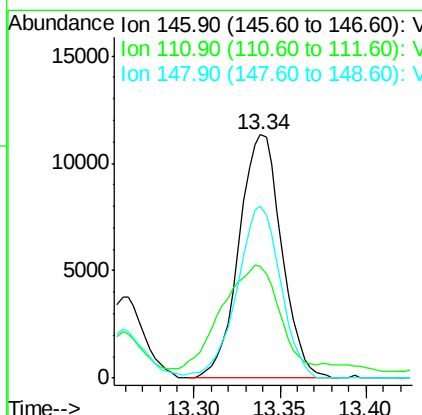
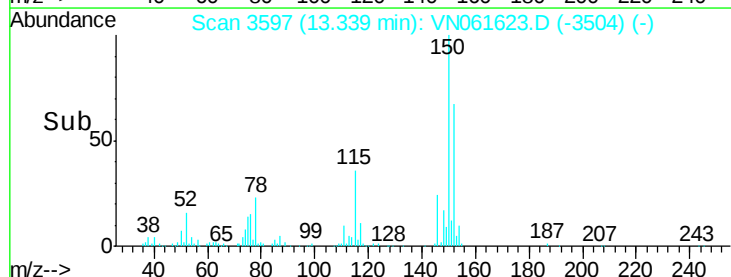


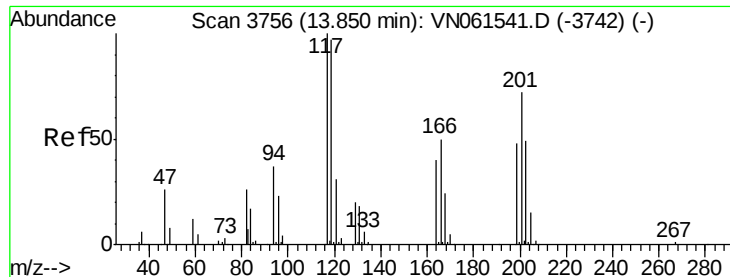
#88
 1,4-Dichlorobenzene
 Concen: 2.172 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN061623.D
 Acq: 2 Jun 2020 16:49

Tgt Ion:146 Resp: 19543
 Ion Ratio Lower Upper
 146 100
 111 56.0 18.9 56.9
 148 72.0 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 0.223 ug/l

RT: 13.77 min Scan# 3732

Delta R.T. -0.08 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

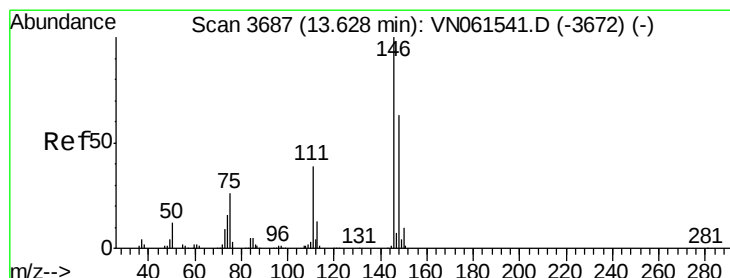
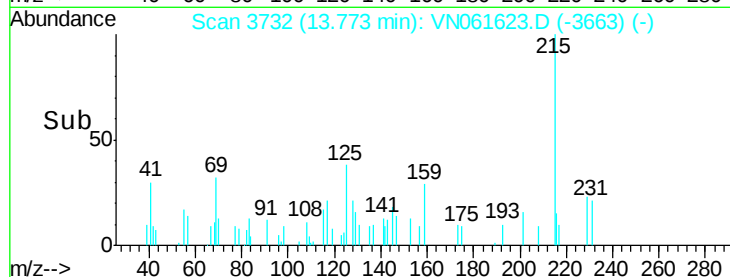
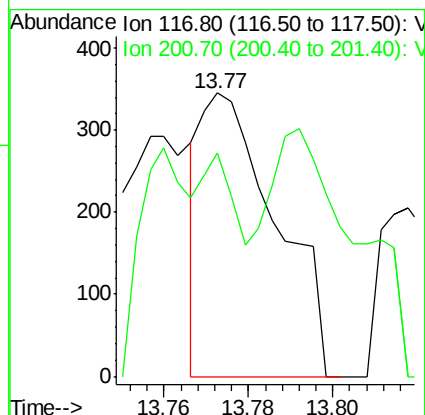
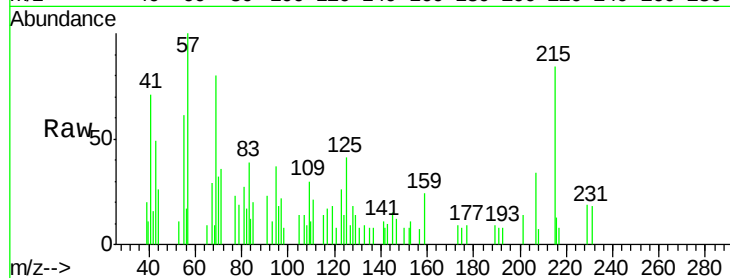
ClientSampleId :

Tot Ion:117 Resp: 423

Ion Ratio Lower Upper

117 100

201 105.9 36.7 110.1



#91

1,2-Dichlorobenzene

Concen: 1.773 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

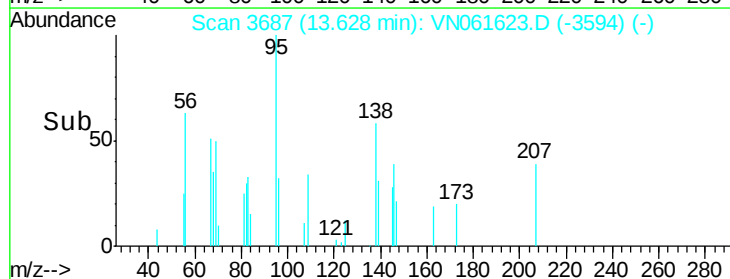
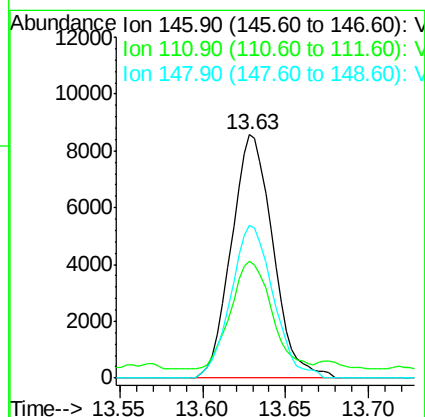
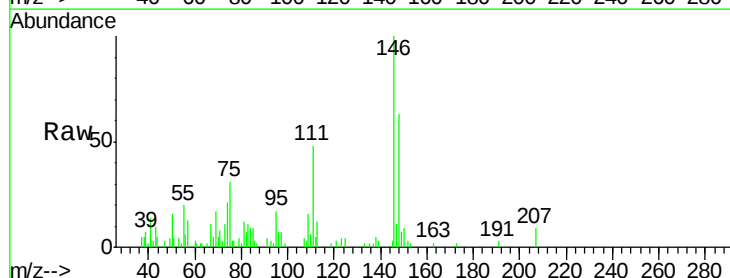
Tgt Ion:146 Resp: 14969

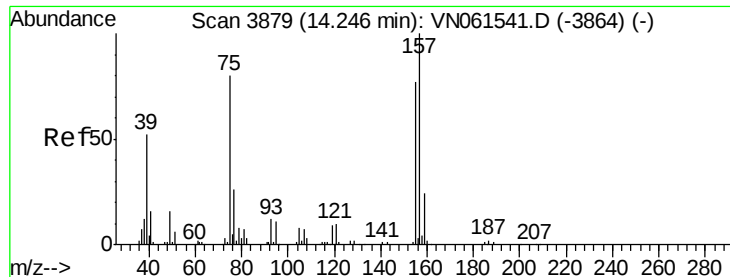
Ion Ratio Lower Upper

146 100

111 43.7 20.1 60.2

148 64.1 31.9 95.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.261 ug/l

RT: 14.39 min Scan# 3925

Delta R.T. 0.15 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

ClientSampled :

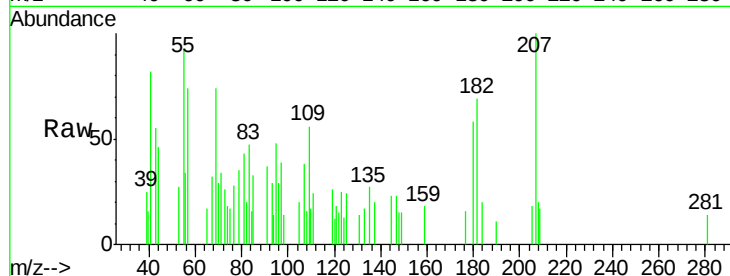
Tot Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

155 0.0 47.1 141.4#

157 0.0 60.3 180.8#

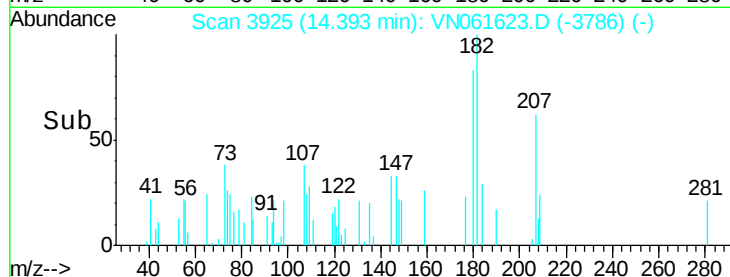


Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3864) (-)

Ion 154.80 (154.50 to 155.50): VN061541.D (-3864) (-)

Ion 156.80 (156.50 to 157.50): VN061541.D (-3864) (-)

Time-->



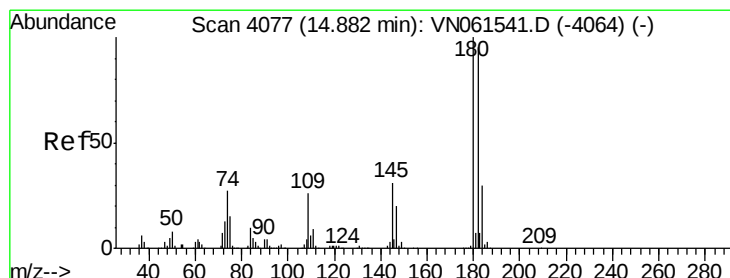
Abundance

Ion 74.90 (74.60 to 75.60): VN061541.D (-3864) (-)

Ion 154.80 (154.50 to 155.50): VN061541.D (-3864) (-)

Ion 156.80 (156.50 to 157.50): VN061541.D (-3864) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.302 ug/l

RT: 14.89 min Scan# 4078

Delta R.T. 0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

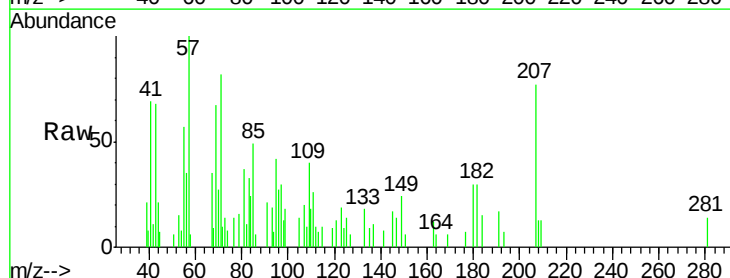
Tgt Ion: 180 Resp: 1493

Ion Ratio Lower Upper

180 100

182 110.6 47.8 143.3

145 64.5 15.5 46.5#

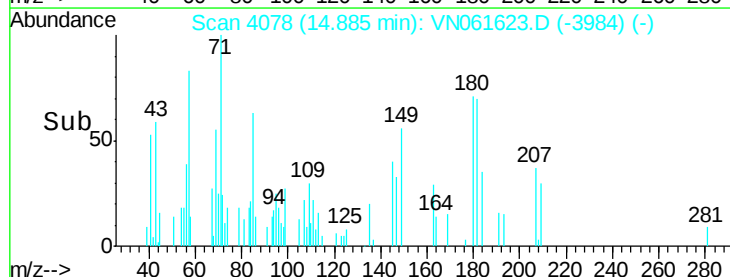


Abundance Ion 179.80 (179.50 to 180.50): VN061541.D (-4064) (-)

Ion 181.80 (181.50 to 182.50): VN061541.D (-4064) (-)

Ion 144.80 (144.50 to 145.50): VN061541.D (-4064) (-)

Time-->



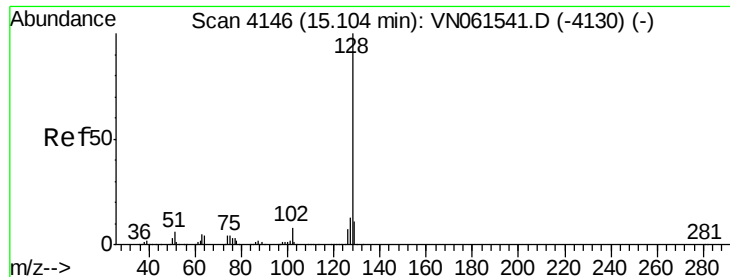
Abundance

Ion 179.80 (179.50 to 180.50): VN061541.D (-4064) (-)

Ion 181.80 (181.50 to 182.50): VN061541.D (-4064) (-)

Ion 144.80 (144.50 to 145.50): VN061541.D (-4064) (-)

Time-->



#95

Naphthalene

Concen: 0.388 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

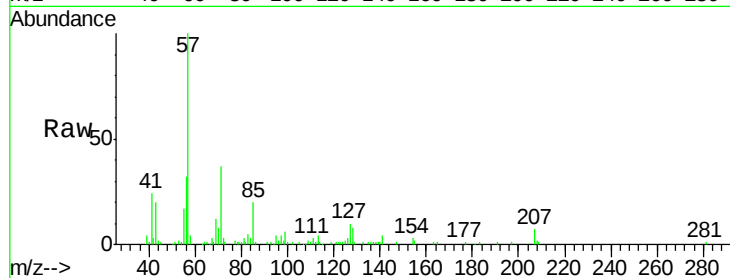
Tot Ion:128 Resp: 5834

Ion Ratio Lower Upper

128 100

127 162.4 10.0 15.0#

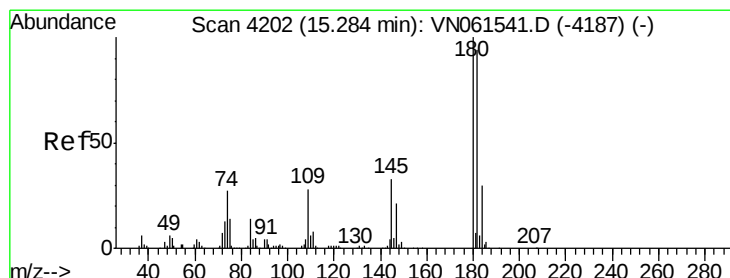
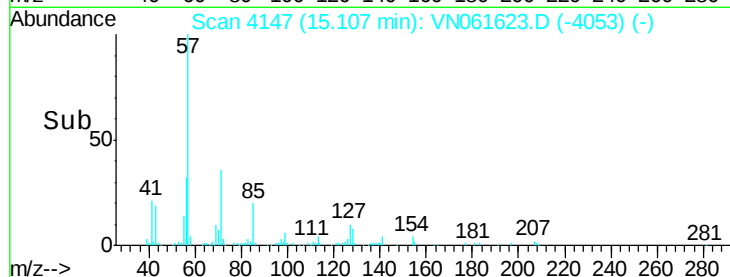
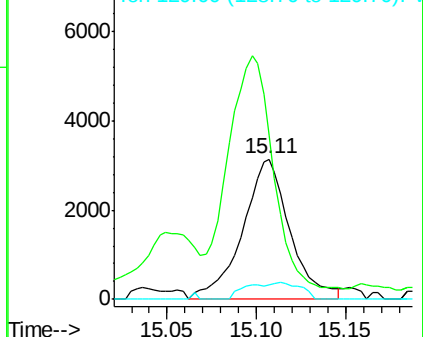
129 13.7 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.283 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. -0.00 min

Lab File: VN061623.D

Acq: 2 Jun 2020 16:49

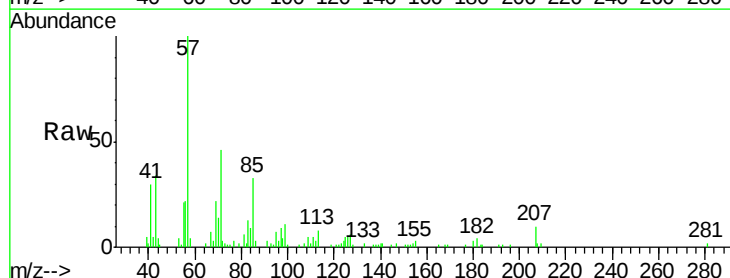
Tgt Ion:180 Resp: 1374

Ion Ratio Lower Upper

180 100

182 0.0 47.1 141.3#

145 38.9 16.3 48.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

