

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061746.D
 Acq On : 11 Jun 2020 14:54
 Operator : JC/MD
 Sample : L2988-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D2-20200608

Quant Time: Jun 12 05:10:32 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	7.63	168	292651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	499887	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	487227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221248	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	162886	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	7.55	113	141272	55.71	ug/l	0.00
Spiked Amount			Recovery	=	111.42%	
50) Toluene-d8	10.06	98	592550	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.38	95	205902	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	

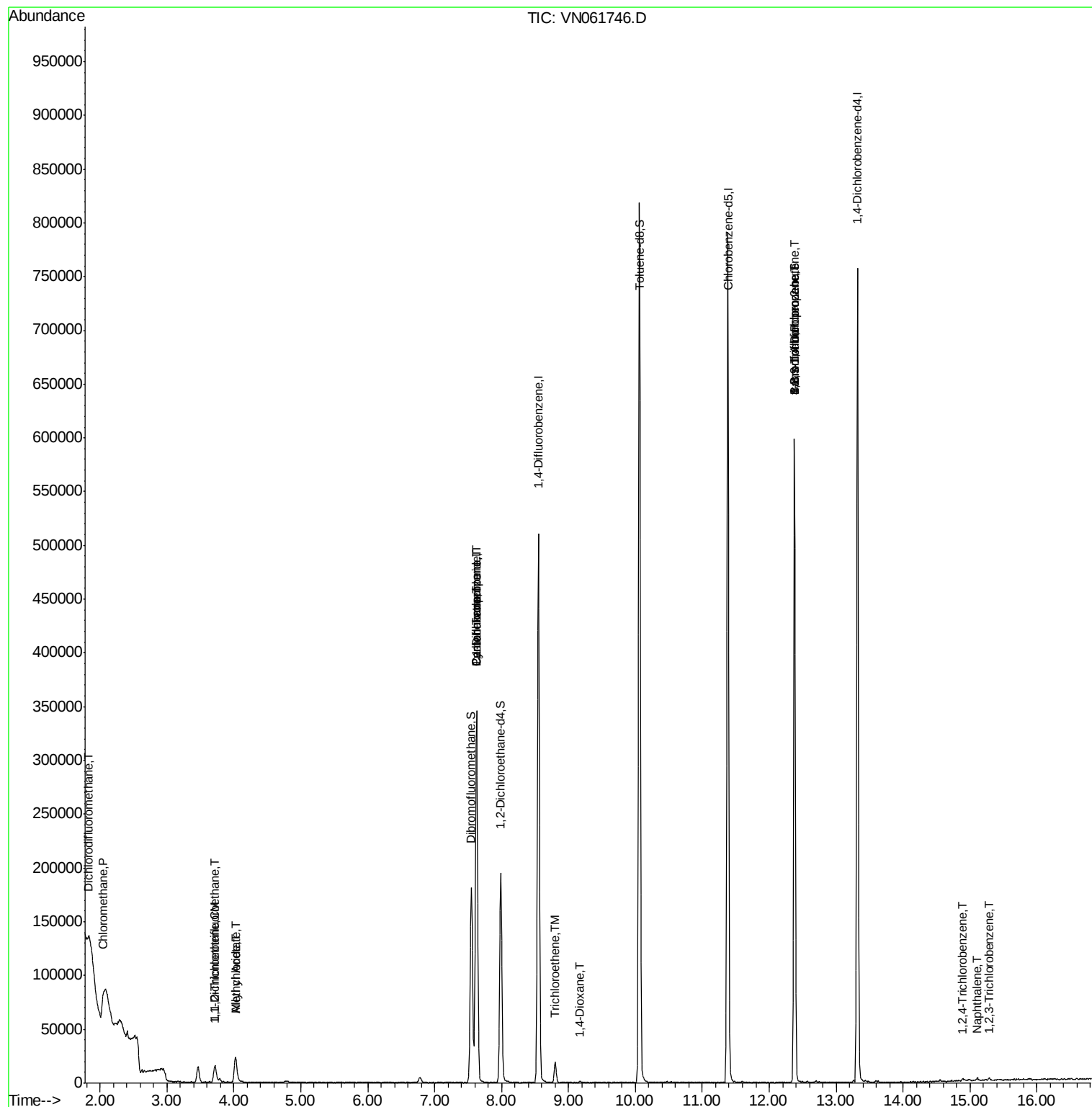
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	4898	2.564	ug/l	100
3) Chloromethane	2.04	50	877	0.246	ug/l #	85
9) 1,1,2-Trichlorotrifluoroet	3.72	101	9762	3.488	ug/l	93
12) 1,1-Dichloroethene	3.70	96	721	0.241	ug/l #	36
14) Allyl chloride	4.02	41	3945	1.009	ug/l #	82
16) Acetone	3.79	43	5110	Below Cal	#	86
18) Methyl Acetate	4.02	43	9065	2.872	ug/l #	46
31) Cyclohexane	7.62	56	4970	1.011	ug/l #	17
36) 1,1-Dichloropropene	7.62	75	19503	4.407	ug/l #	49
38) Carbon Tetrachloride	7.63	117	28066	6.575	ug/l #	16
44) Trichloroethene	8.80	130	7835	1.867	ug/l	94
49) 1,4-Dioxane	9.16	88	546	12.216	ug/l #	87
71) Bromoform	12.38	173	1931	0.665	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	99486	24.728	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	99486	63.237	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.89	180	844	0.207	ug/l #	91
95) Naphthalene	15.11	128	2821	0.227	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.29	180	975	0.243	ug/l #	79

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

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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: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

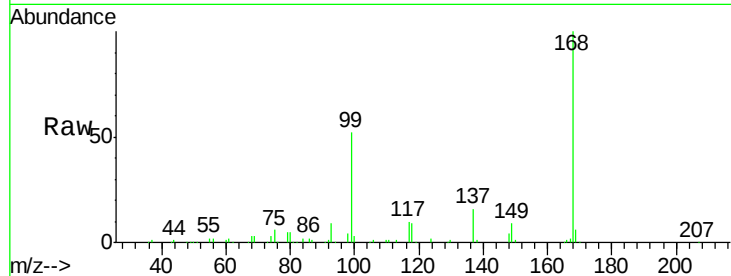
RE132D2-20200608

Tot Ion:168 Resp: 292651

Ion Ratio Lower Upper

168 100

99 52.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

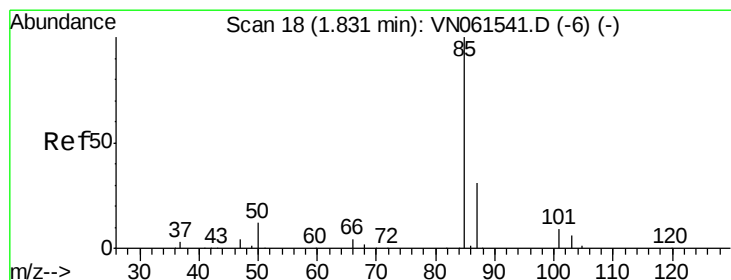
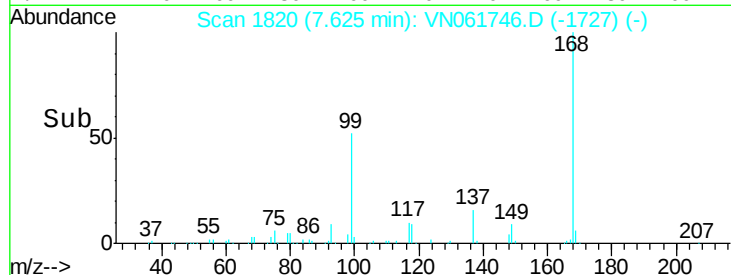
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.564 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061746.D

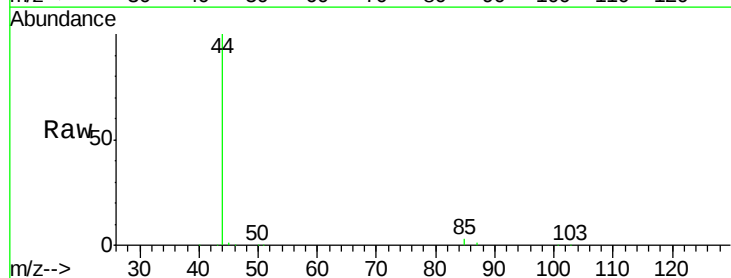
Acq: 11 Jun 2020 14:54

Tgt Ion: 85 Resp: 4898

Ion Ratio Lower Upper

85 100

87 31.0 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

4000

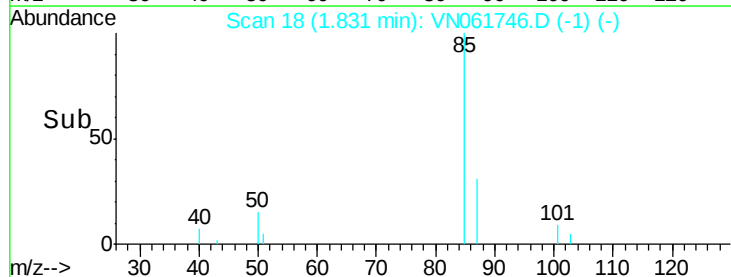
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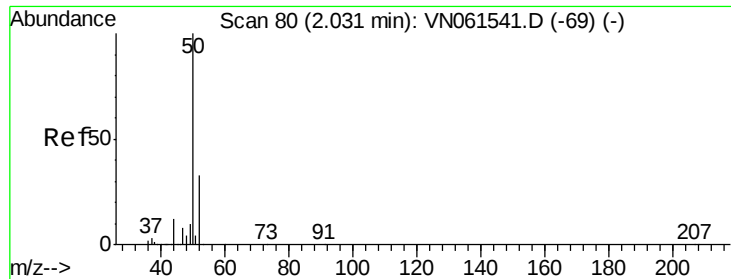
2000

1000

0

Time-->





#3

Chloromethane

Concen: 0.246 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

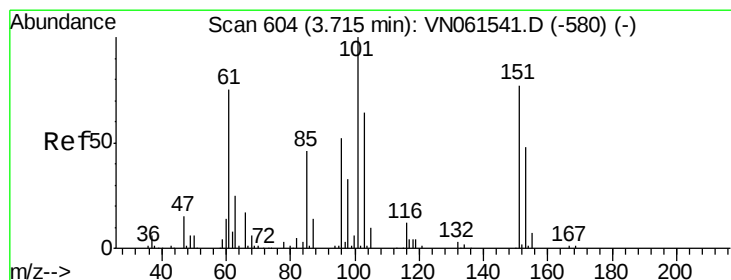
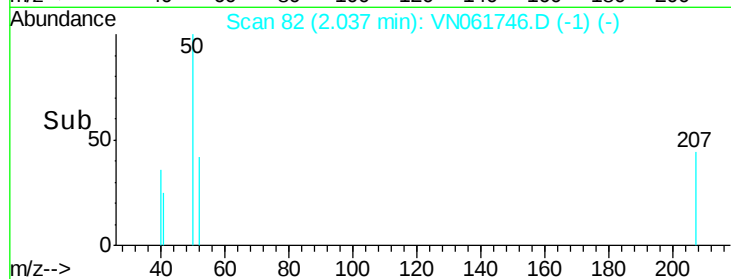
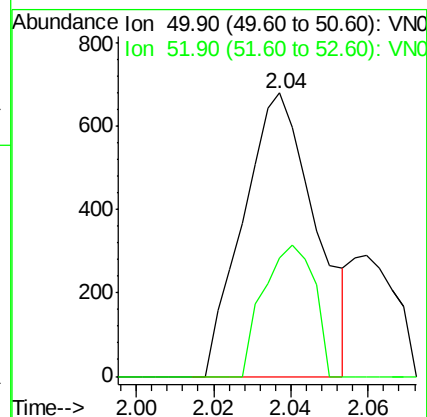
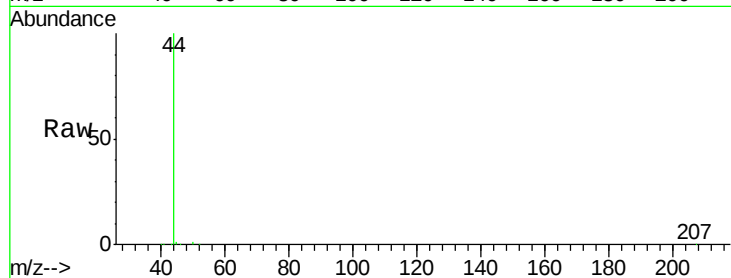
RE132D2-20200608

Tot Ion: 50 Resp: 877

Ion Ratio Lower Upper

50 100

52 41.7 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.488 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

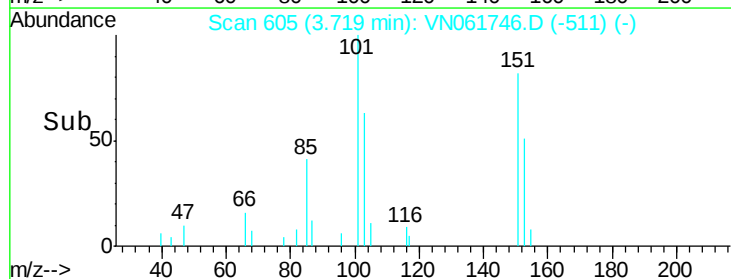
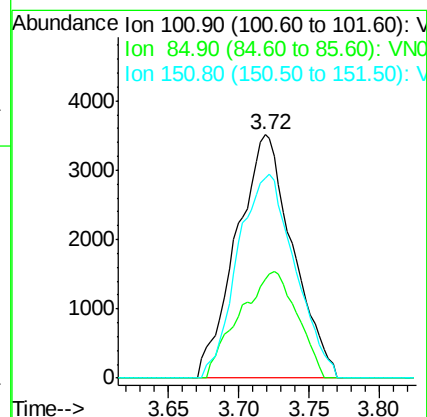
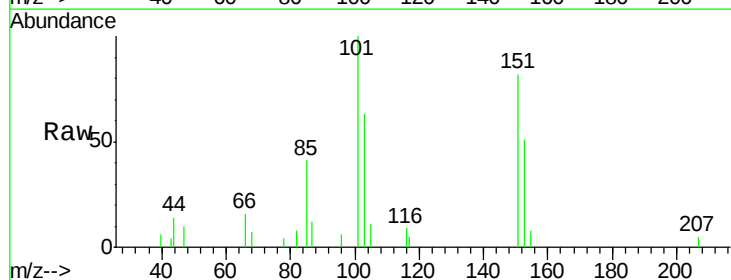
Tgt Ion: 101 Resp: 9762

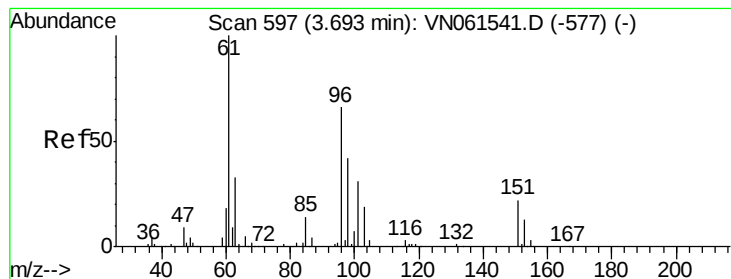
Ion Ratio Lower Upper

101 100

85 44.8 35.2 52.8

151 85.0 61.0 91.6





#12

1,1-Dichloroethene

Concen: 0.241 ug/l

RT: 3.70 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20200608

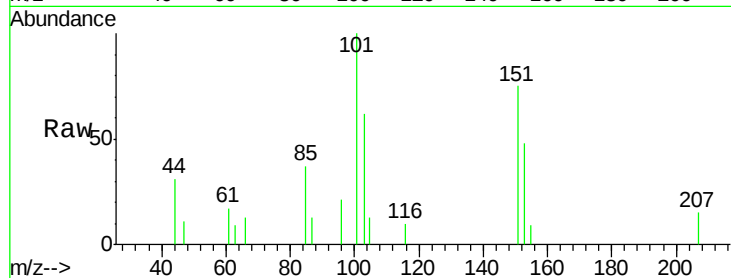
Tot Ion: 96 Resp: 721

Ion Ratio Lower Upper

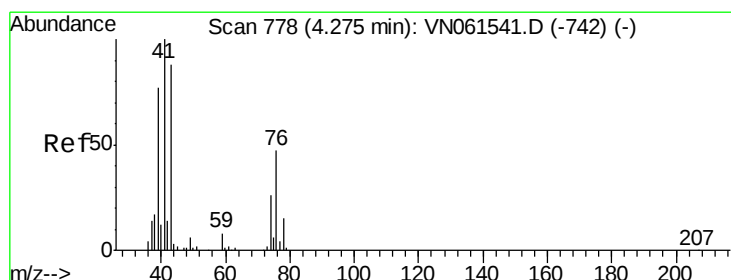
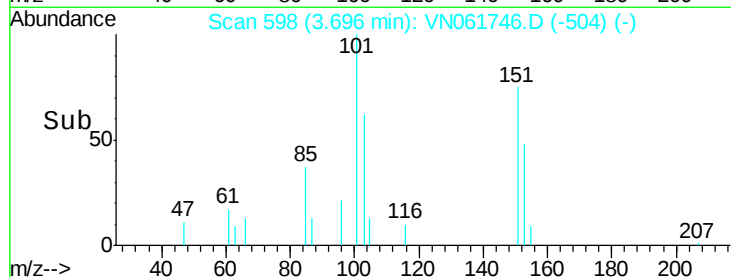
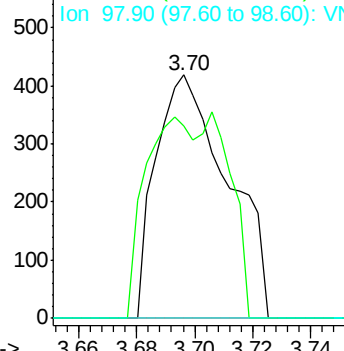
96 100

61 79.0 120.5 180.7#

98 0.0 50.8 76.2#



Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#14

Allyl chloride

Concen: 1.009 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

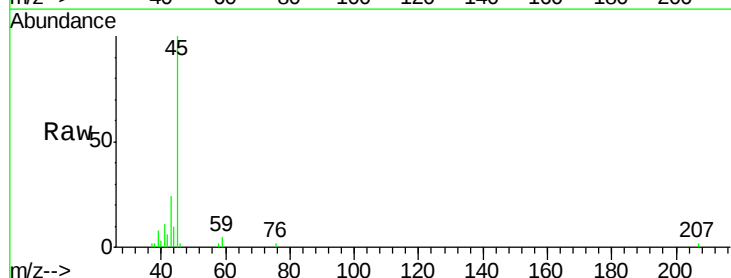
Tgt Ion: 41 Resp: 3945

Ion Ratio Lower Upper

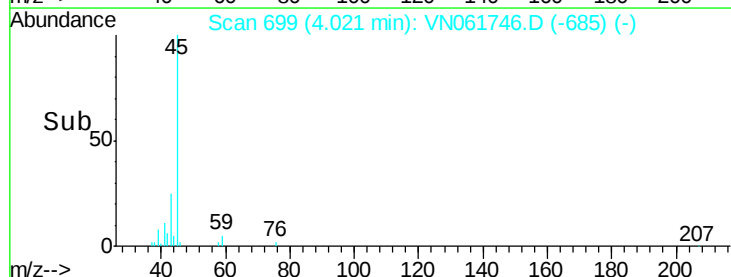
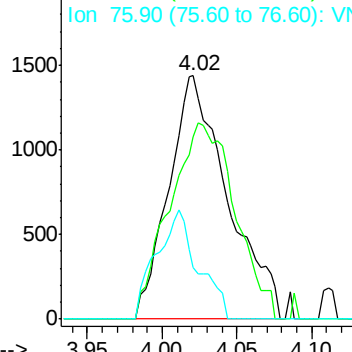
41 100

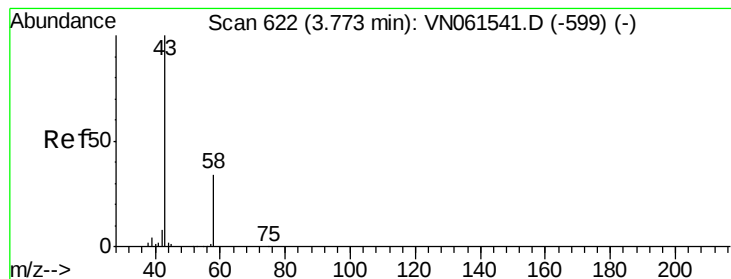
39 89.2 58.6 88.0#

76 31.4 34.2 51.4#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 75.90 (75.60 to 76.60): VNC





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

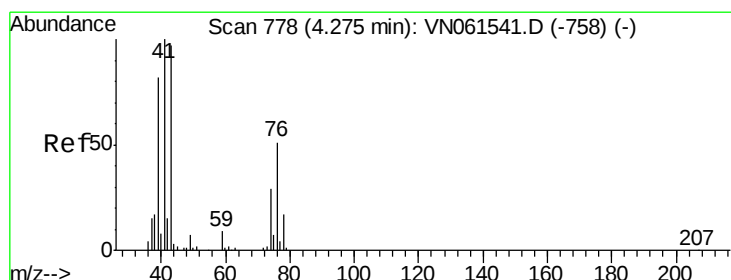
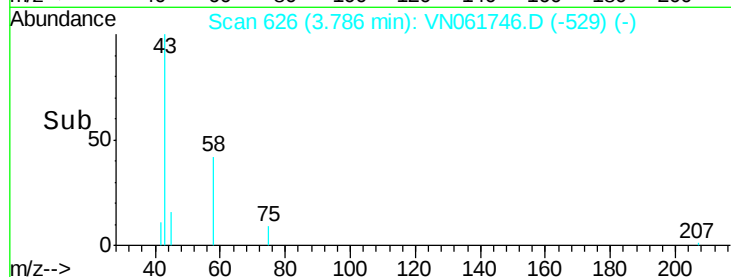
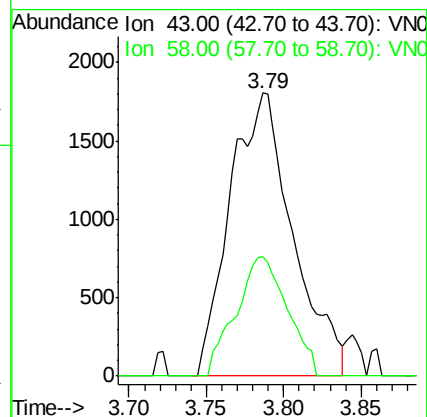
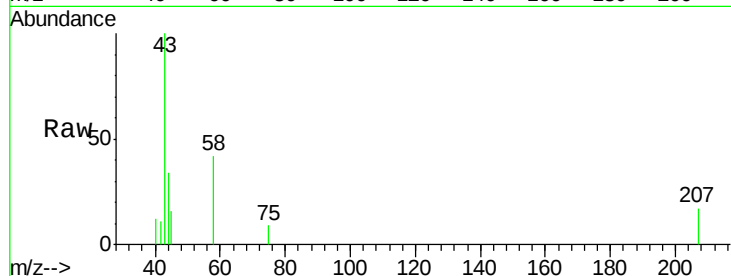
RE132D2-20200608

Tot Ion: 43 Resp: 5110

Ion Ratio Lower Upper

43 100

58 42.0 27.2 40.8#



#18

Methyl Acetate

Concen: 2.872 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061746.D

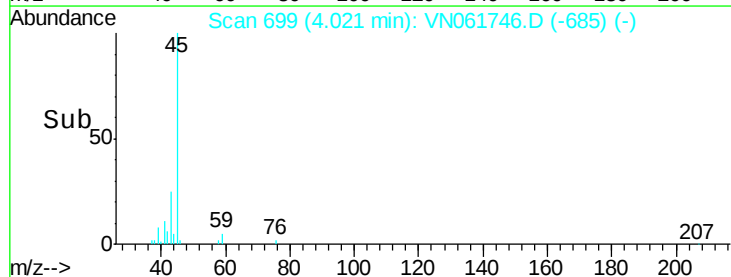
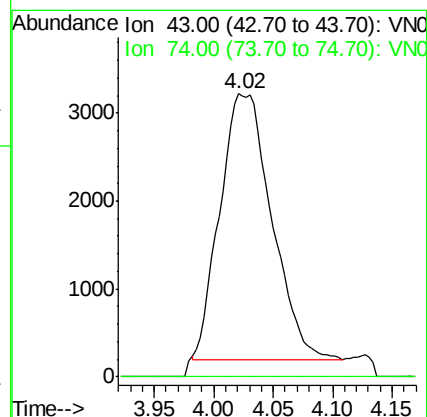
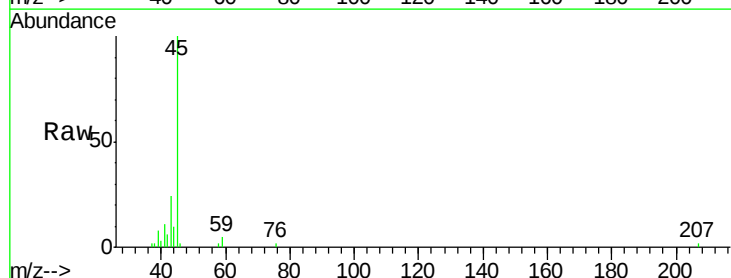
Acq: 11 Jun 2020 14:54

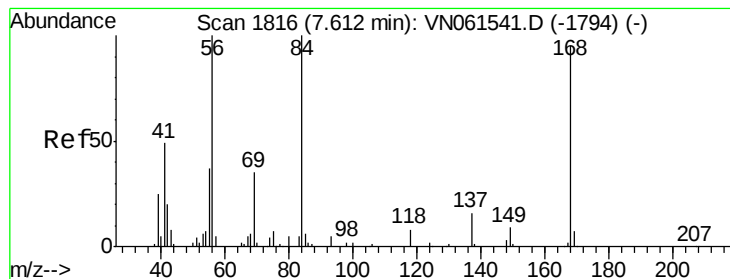
Tgt Ion: 43 Resp: 9065

Ion Ratio Lower Upper

43 100

74 0.0 23.2 34.8#





#31

Cyclohexane

Concen: 1.011 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20200608

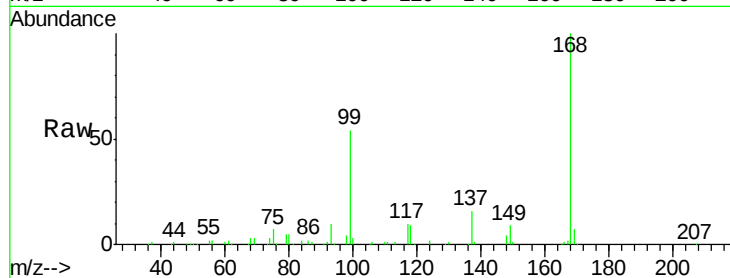
Tot Ion: 56 Resp: 4970

Ion Ratio Lower Upper

56 100

69 151.3 27.8 41.8#

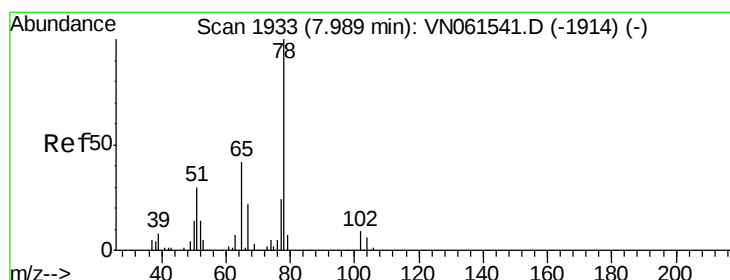
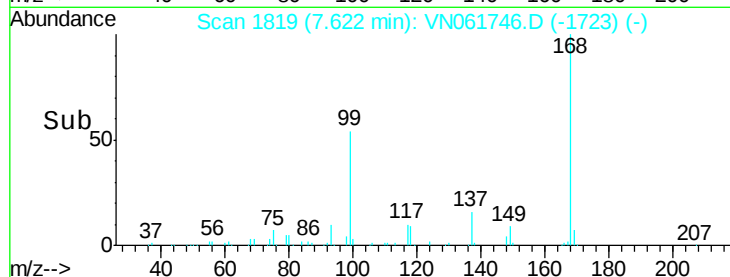
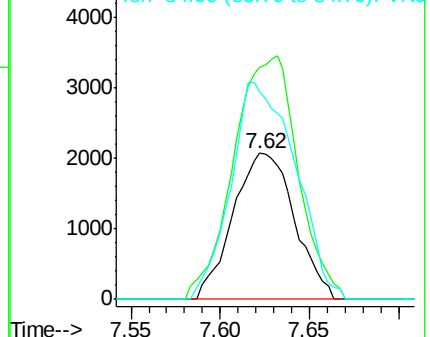
84 142.1 79.9 119.9#



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: 46.716 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061746.D

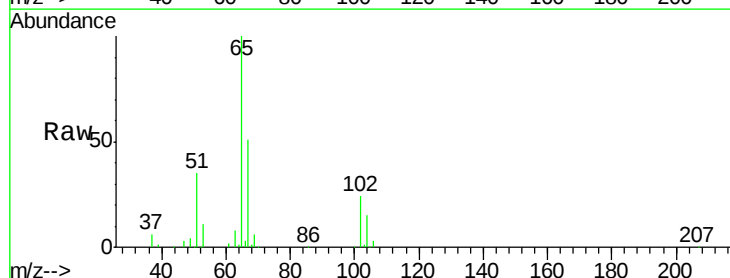
Acq: 11 Jun 2020 14:54

Tgt Ion: 65 Resp: 162886

Ion Ratio Lower Upper

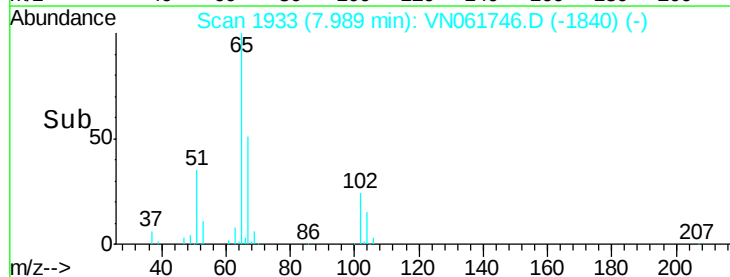
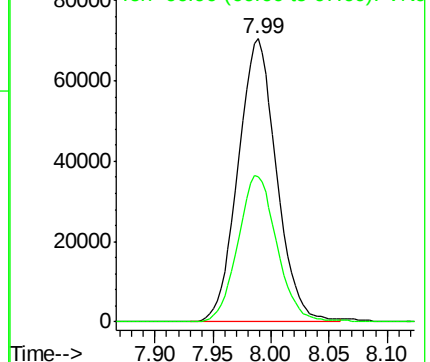
65 100

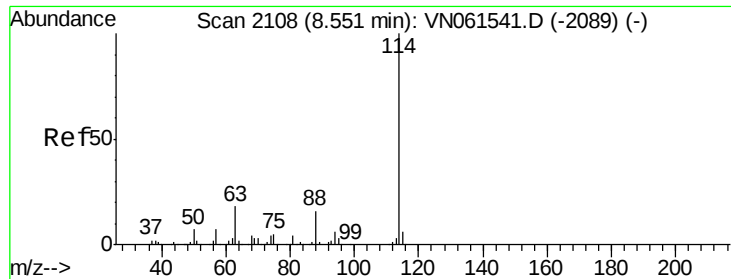
67 52.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

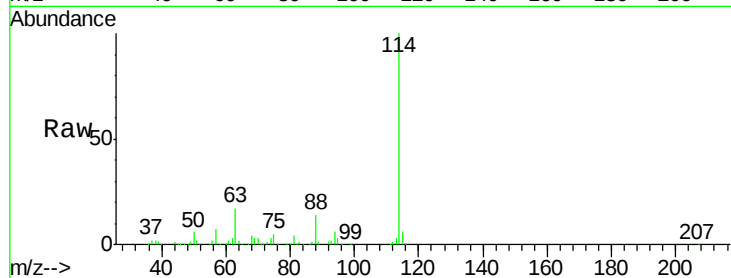




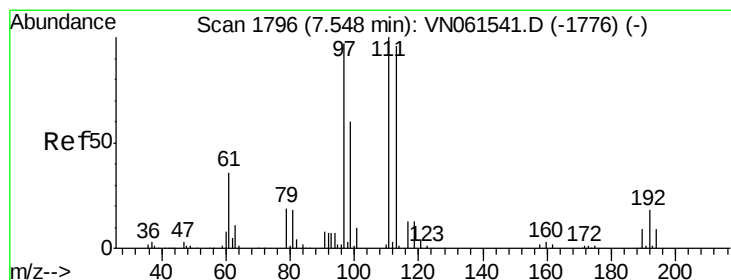
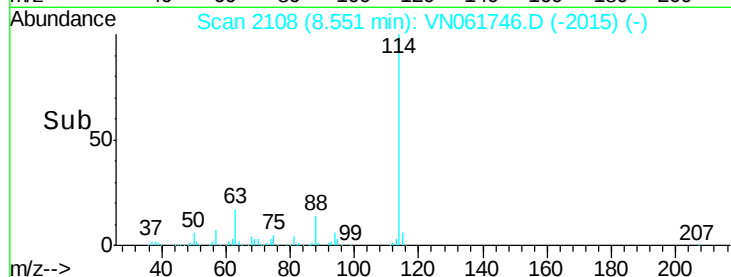
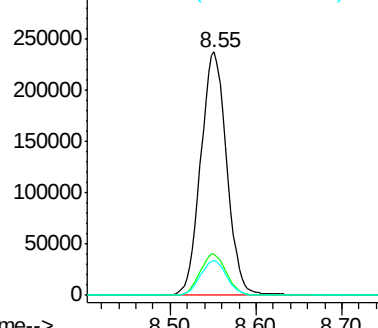
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061746.D
 Acq: 11 Jun 2020 14:54

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 RE132D2-20200608

Tot Ion	Ratio	Lower	Upper
114	100		
63	16.8	0.0	35.8
88	14.2	0.0	31.0

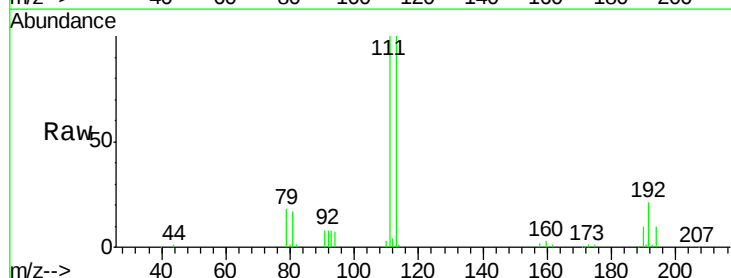


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

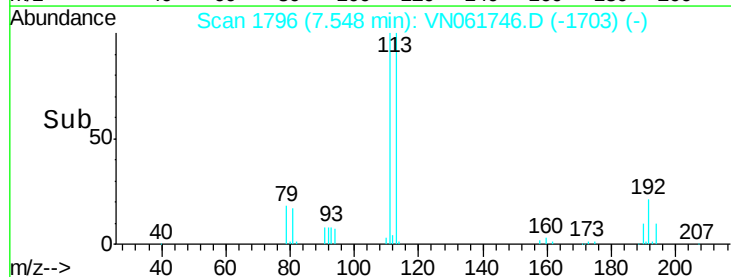
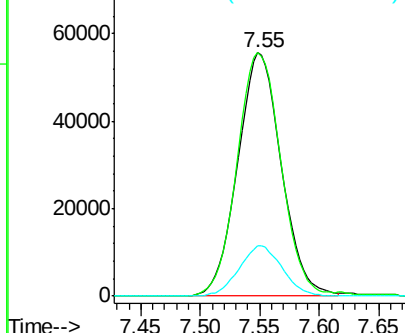


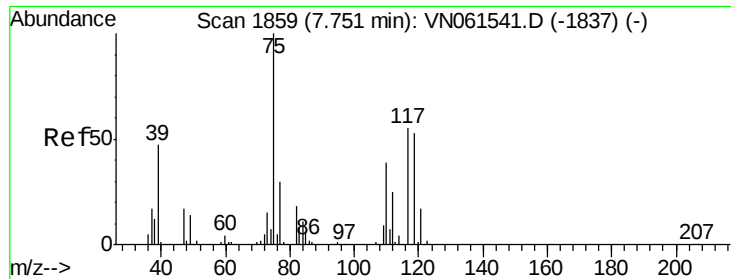
#35
 Dibromofluoromethane
 Concen: 55.710 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061746.D
 Acq: 11 Jun 2020 14:54

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	83.4	125.0
192	20.4	15.4	23.2



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

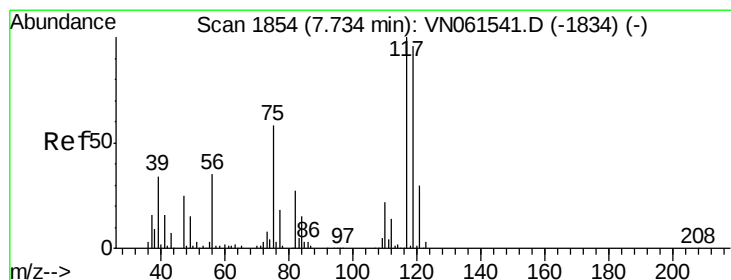
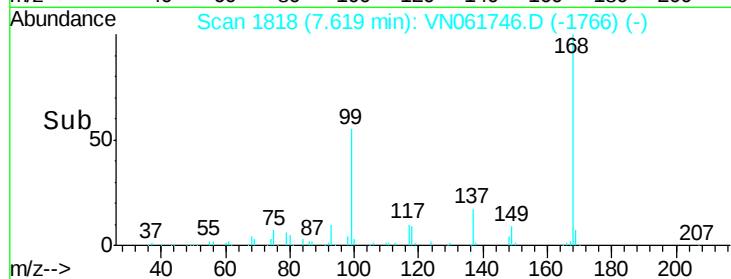
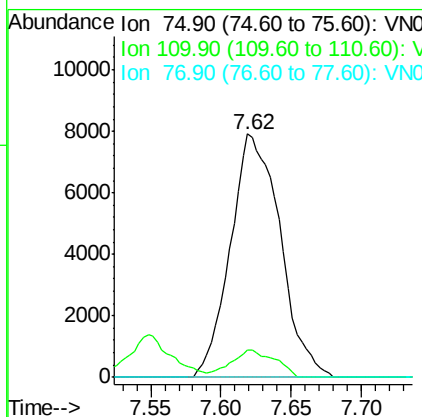
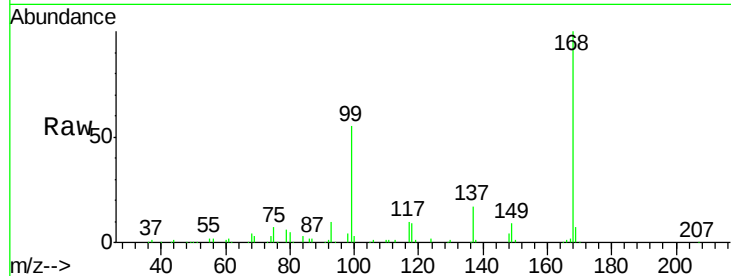




#36
 1,1-Dichloropropene
 Concen: 4.407 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061746.D
 Acq: 11 Jun 2020 14:54

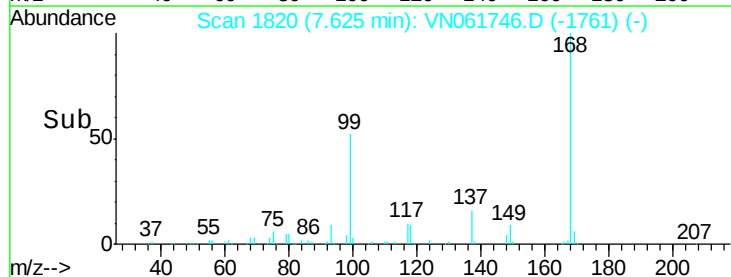
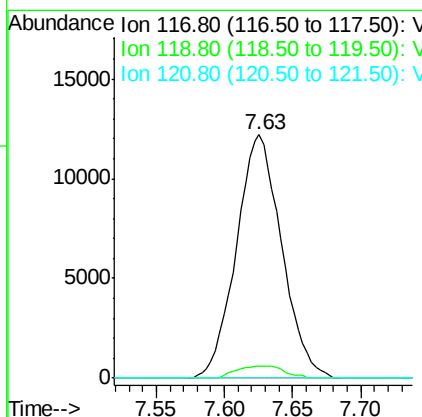
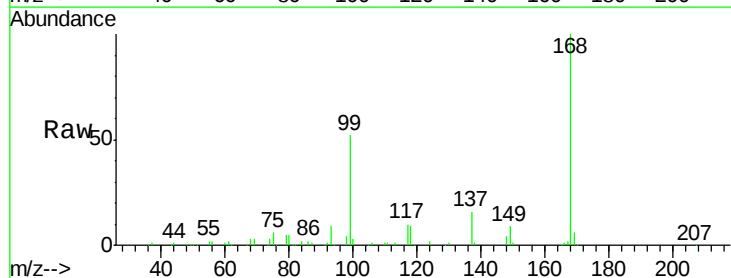
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D2-20200608

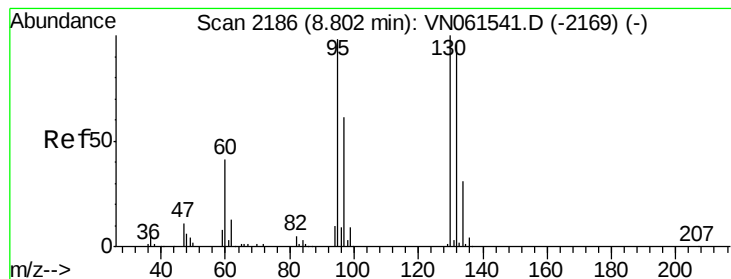
Tot Ion	75	Resp	19503
Ion Ratio	Lower	Upper	
75	100		
110	10.0	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.575 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061746.D
 Acq: 11 Jun 2020 14:54

Tgt Ion	117	Resp	28066
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.0	76.5	114.7#
121	0.0	24.1	36.1#





#44

Trichloroethene

Concen: 1.867 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

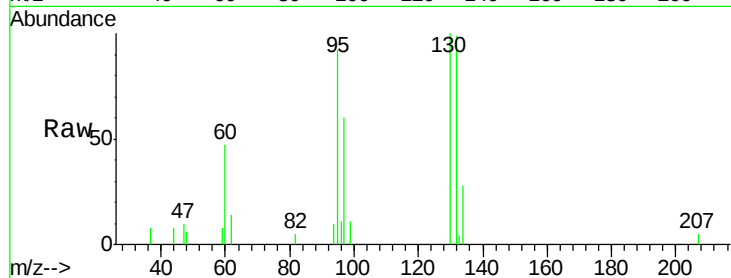
RE132D2-20200608

Tot Ion:130 Resp: 7835

Ion Ratio Lower Upper

130 100

95 91.9 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.80

4000

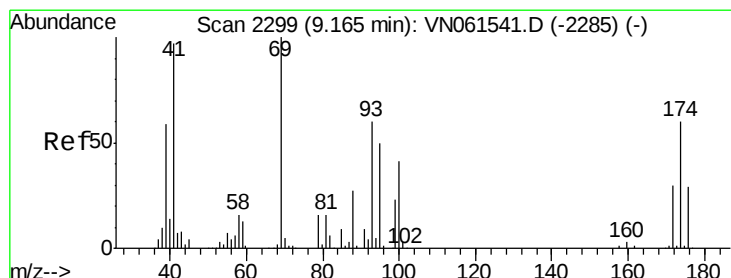
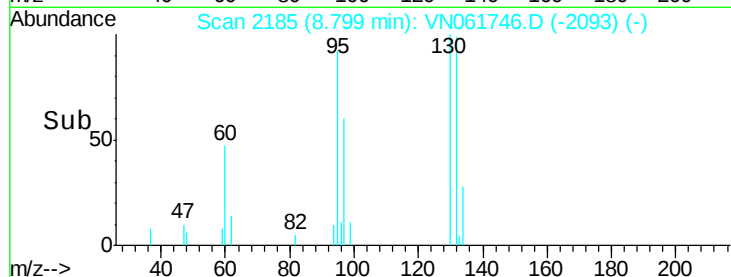
3000

2000

1000

0

Time-->



#49

1,4-Dioxane

Concen: 12.216 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

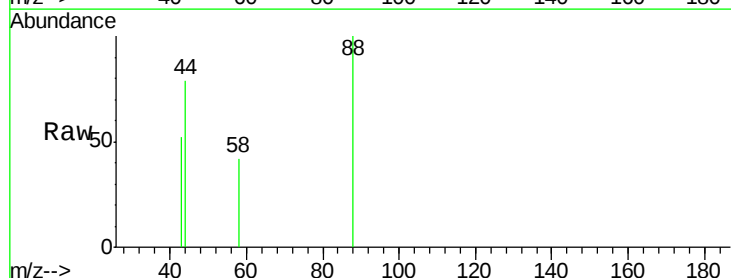
Tgt Ion: 88 Resp: 546

Ion Ratio Lower Upper

88 100

43 47.1 23.1 34.7#

58 63.0 48.3 72.5



Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

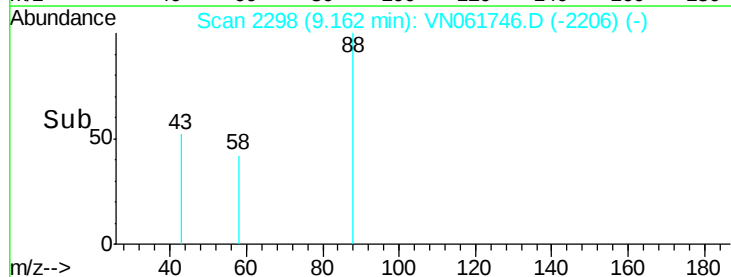
600

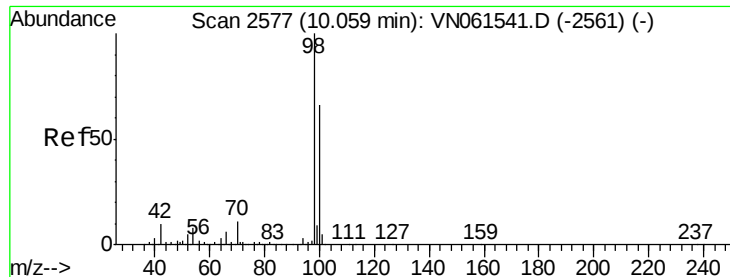
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.424 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

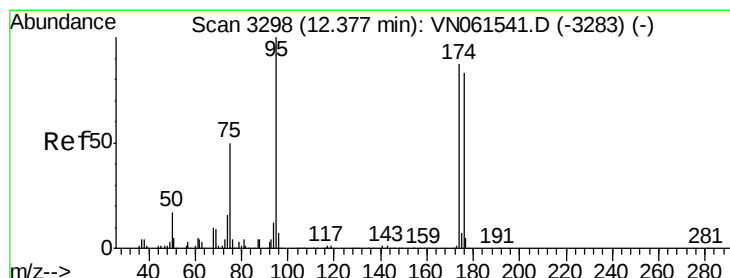
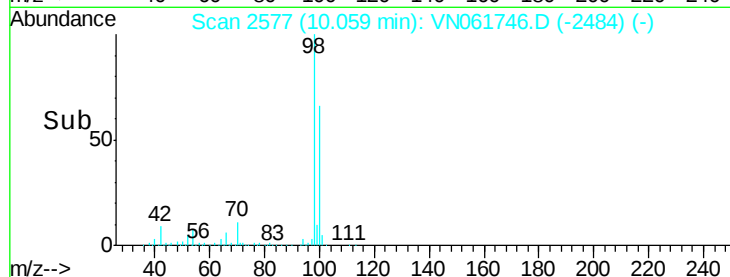
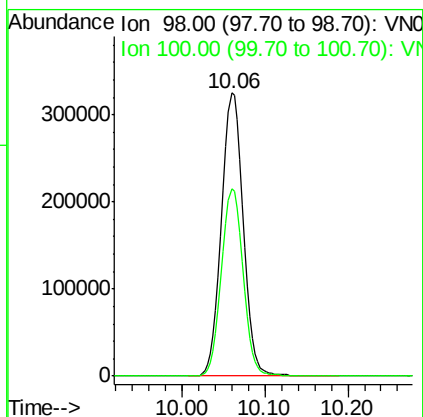
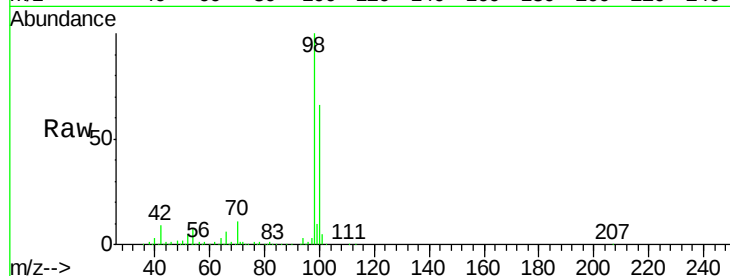
RE132D2-20200608

Tot Ion: 98 Resp: 592550

Ion Ratio Lower Upper

98 100

100 66.1 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 48.026 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061746.D

Acq: 11 Jun 2020 14:54

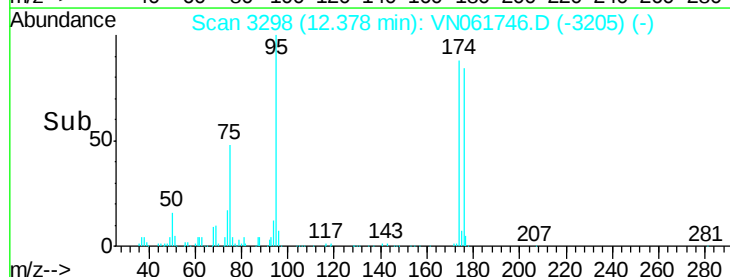
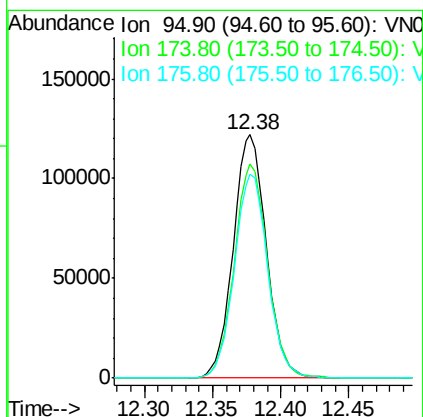
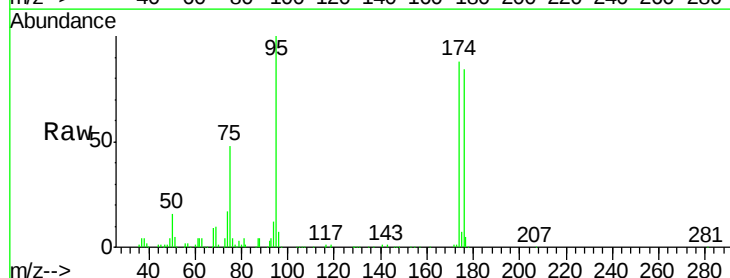
Tgt Ion: 95 Resp: 205902

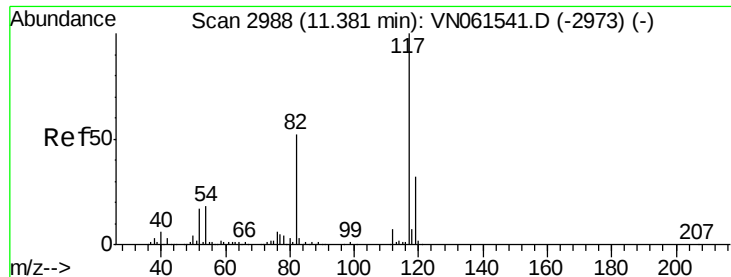
Ion Ratio Lower Upper

95 100

174 88.5 0.0 172.8

176 84.6 0.0 164.8

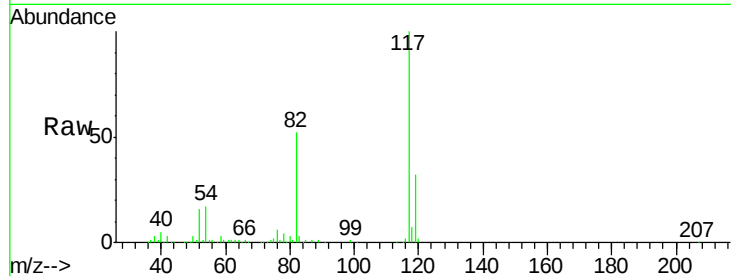




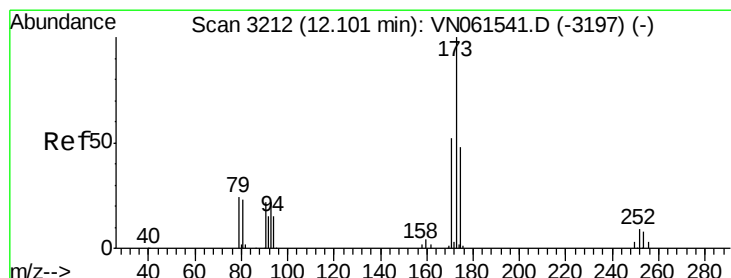
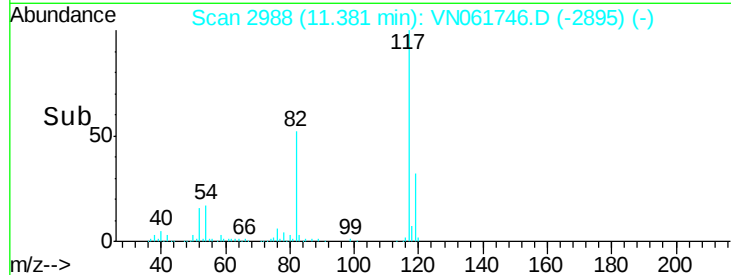
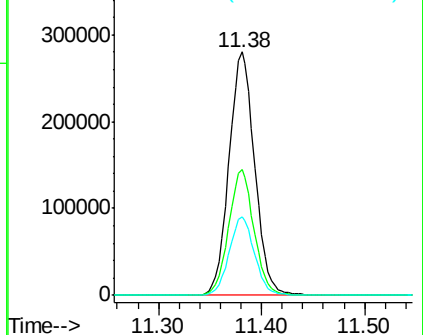
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

Instrument :
MSVOA_N
ClientSampleId :
RE132D2-20200608

Tot Ion:117 Resp: 487227
Ion Ratio Lower Upper
117 100
82 51.8 41.5 62.3
119 32.1 25.6 38.4

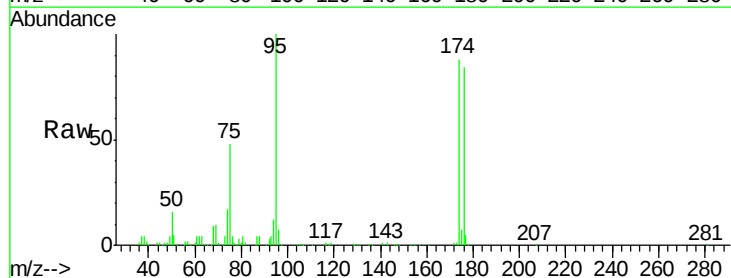


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

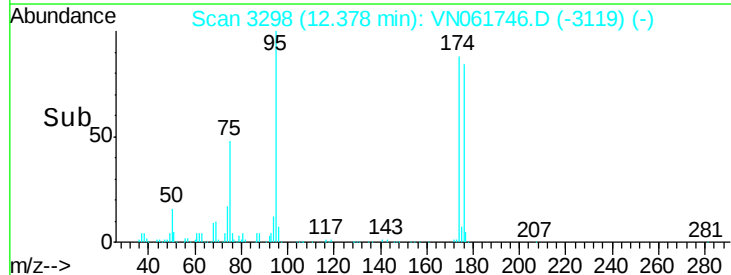
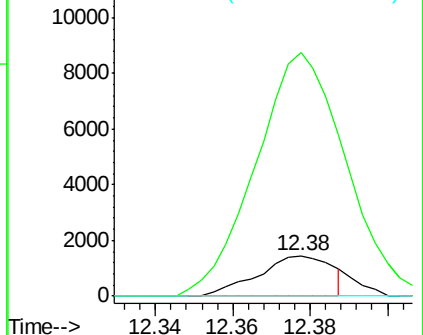


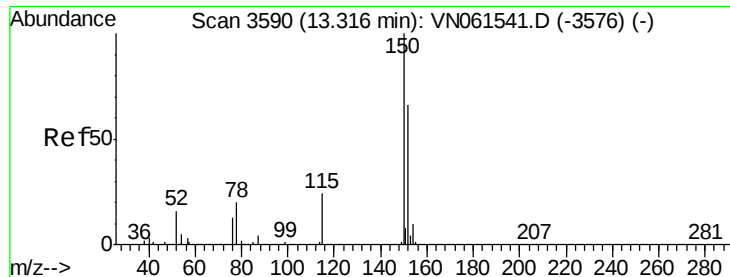
#71
Bromoform
Concen: 0.665 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

Tgt Ion:173 Resp: 1931
Ion Ratio Lower Upper
173 100
175 618.9 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: VN061746.D

Acq: 11 Jun 2020 14:54

Instrument :

MSVOA_N

ClientSampleId :

RE132D2-20200608

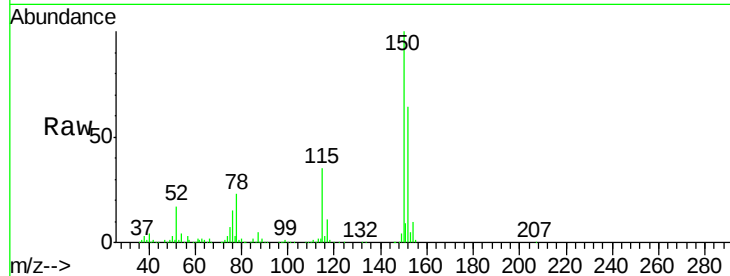
Tot Ion:152 Resp: 221248

Ion Ratio Lower Upper

152 100

115 54.1 28.0 84.0

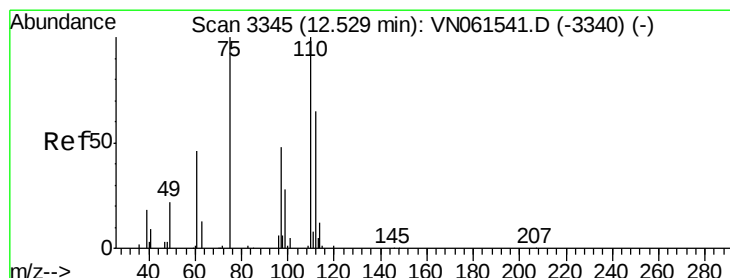
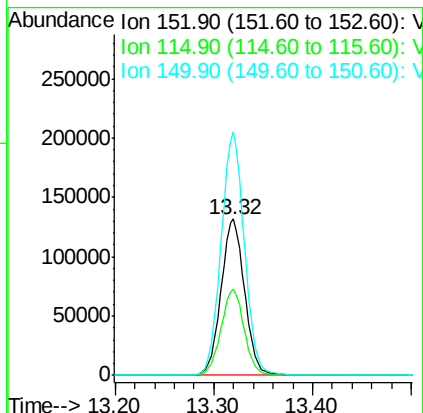
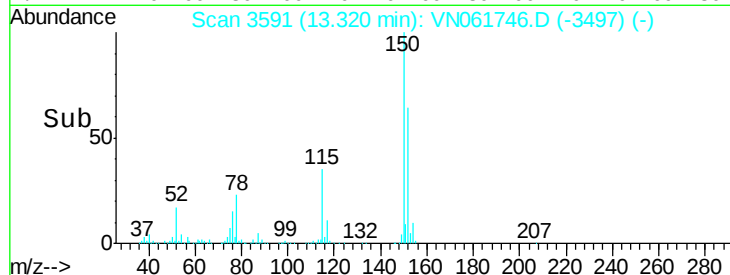
150 153.8 0.0 344.0



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: 24.728 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061746.D

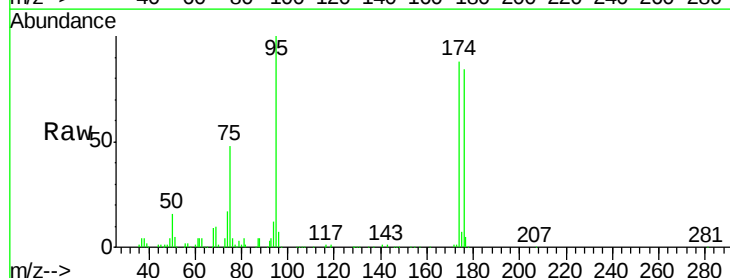
Acq: 11 Jun 2020 14:54

Tgt Ion: 75 Resp: 99486

Ion Ratio Lower Upper

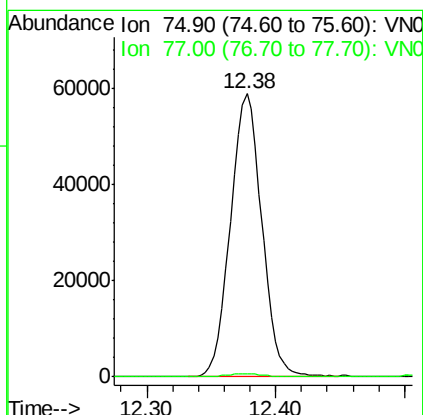
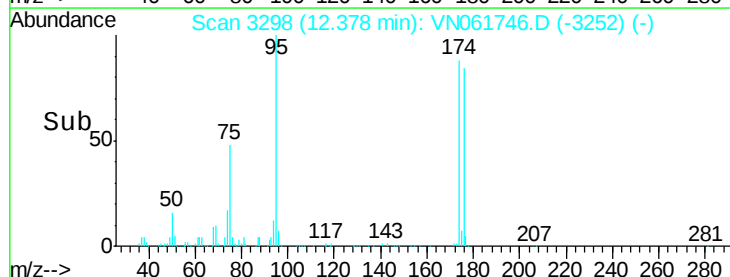
75 100

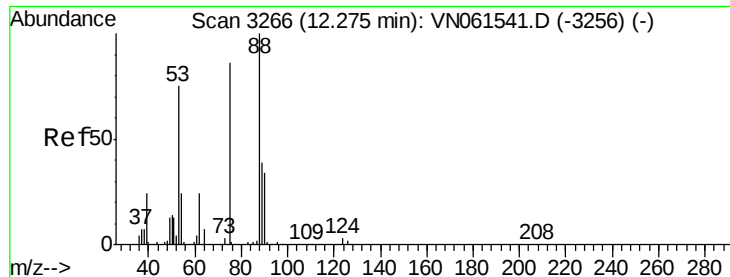
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

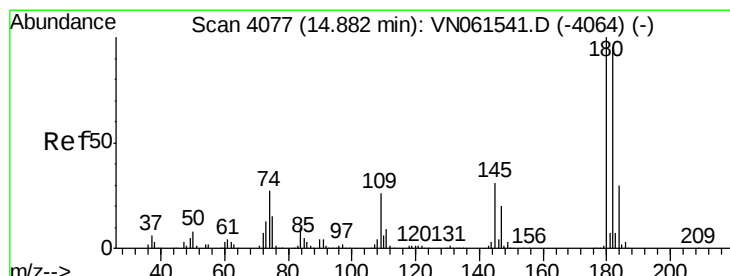
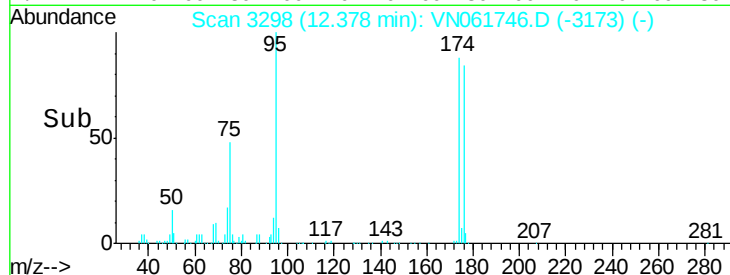
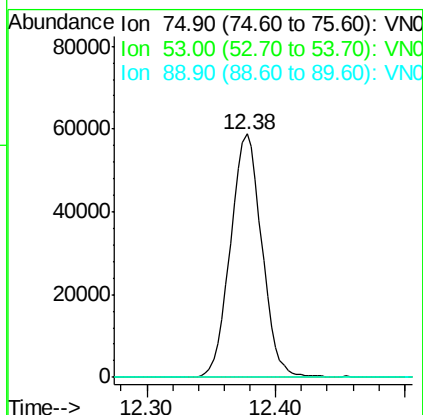
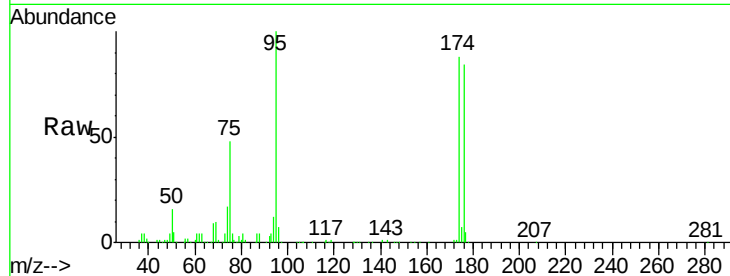




#81
trans-1,4-Dichloro-2-butene
Concen: 63.237 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

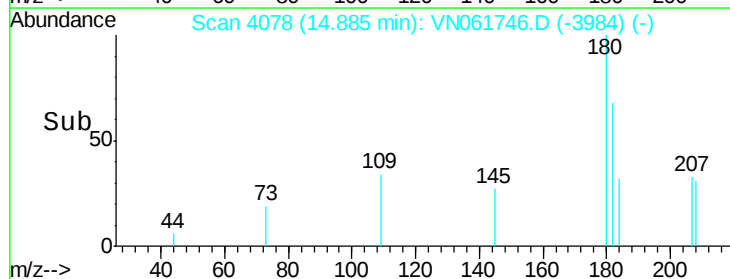
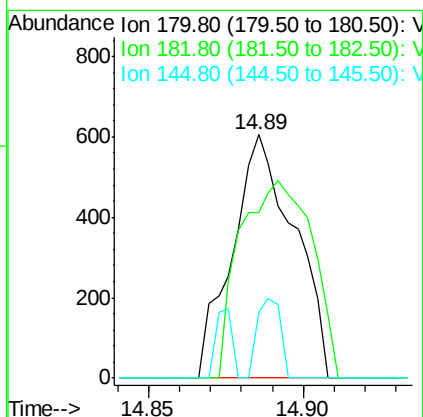
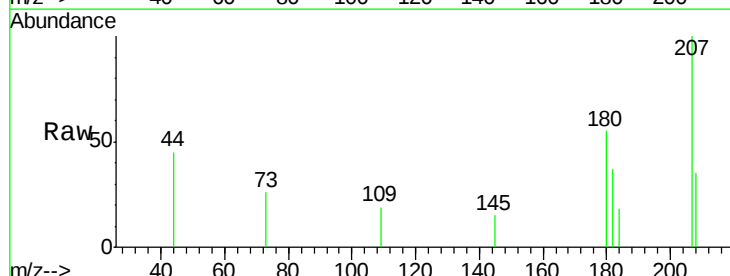
Instrument :
MSVOA_N
ClientSampleId :
RE132D2-20200608

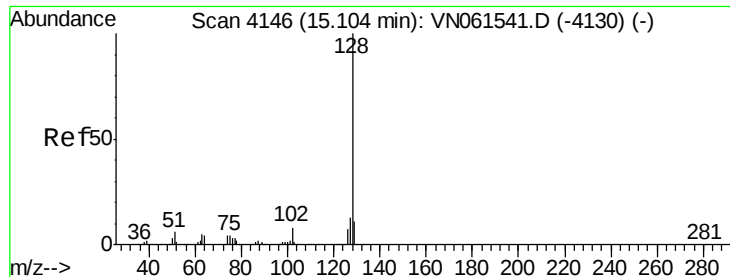
Tot Ion: 75 Resp: 99486
Ion Ratio Lower Upper
75 100
53 0.0 67.8 101.8#
89 0.0 37.1 55.7#



#93
1,2,4-Trichlorobenzene
Concen: 0.207 ug/l
RT: 14.89 min Scan# 4078
Delta R.T. 0.00 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

Tgt Ion: 180 Resp: 844
Ion Ratio Lower Upper
180 100
182 94.1 47.8 143.3
145 12.4 15.5 46.5#

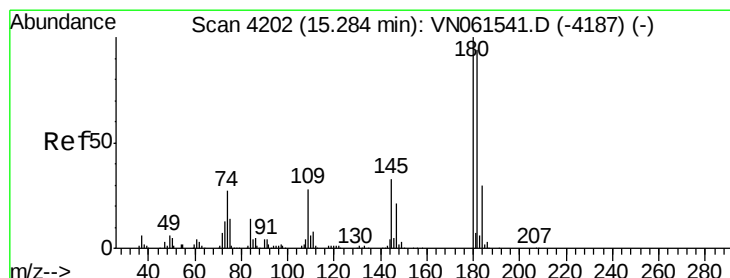
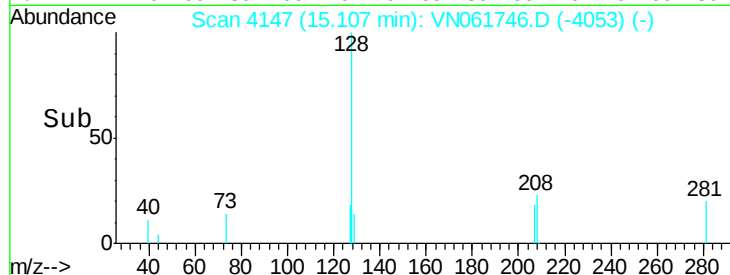
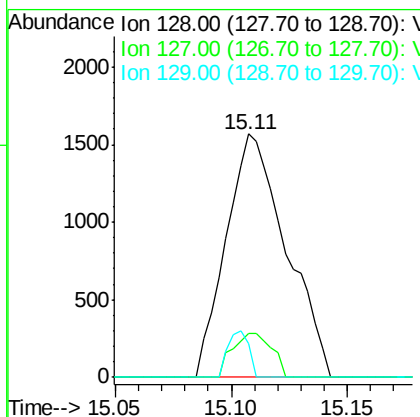
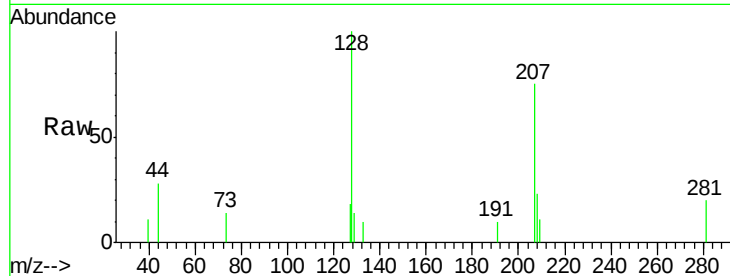




#95
Naphthalene
Concen: 0.227 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

Instrument :
MSVOA_N
ClientSampleId :
RE132D2-20200608

Tot Ion:128 Resp: 2821
Ion Ratio Lower Upper
128 100
127 11.8 10.0 15.0
129 6.6 8.5 12.7#



#96
1,2,3-Trichlorobenzene
Concen: 0.243 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. 0.01 min
Lab File: VN061746.D
Acq: 11 Jun 2020 14:54

Tgt Ion:180 Resp: 975
Ion Ratio Lower Upper
180 100
182 78.1 47.1 141.3
145 13.4 16.3 48.9#

