

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\
 Data File : VN061132.D
 Acq On : 22 Apr 2020 17:16
 Operator : JC/MD
 Sample : VN0422WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 23 07:33:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

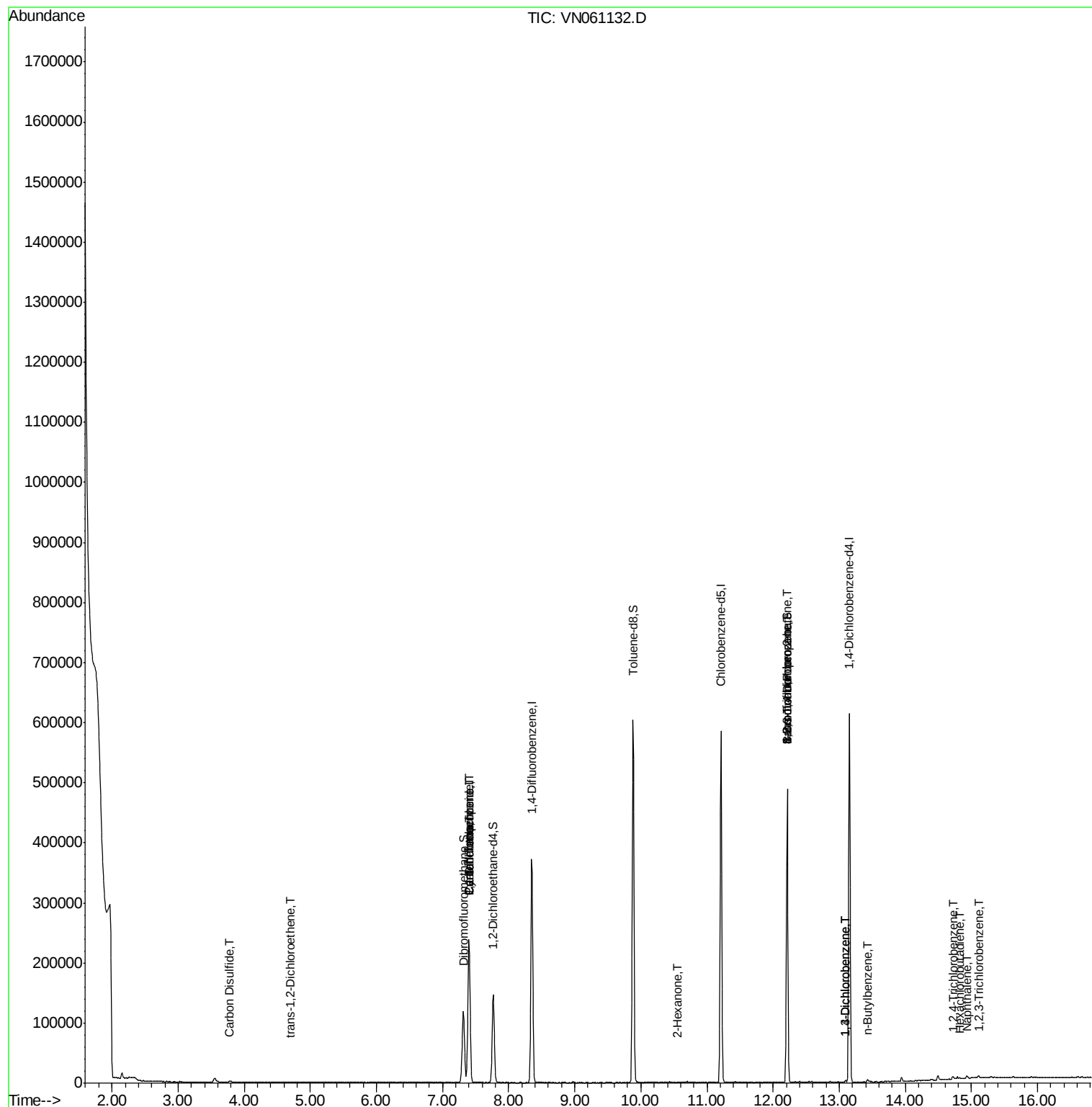
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	199338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	328701	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	316502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	154201	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.77	65	124929	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
35) Dibromofluoromethane	7.31	113	91469	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
50) Toluene-d8	9.88	98	401334	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	12.21	95	159954	53.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.26%	
Target Compounds						
					Qvalue	
14) Allyl chloride	4.02	41	58	Below Cal	#	20
16) Acetone	3.55	43	11325	Below Cal		96
17) Carbon Disulfide	3.79	76	2575	0.432	ug/l #	75
18) Methyl Acetate	3.96	43	90	Below Cal	#	51
21) trans-1,2-Dichloroethene	4.70	96	483	0.202	ug/l #	47
31) Cyclohexane	7.39	56	4621	1.139	ug/l #	8
36) 1,1-Dichloropropene	7.40	75	15367	4.783	ug/l #	48
38) Carbon Tetrachloride	7.40	117	18961	6.742	ug/l #	16
49) 1,4-Dioxane	8.98	88	1411	Below Cal	#	75
59) 2-Hexanone	10.56	43	591	0.251	ug/l #	25
71) Bromoform	12.21	173	613	0.357	ug/l #	1
76) 1,2,3-Trichloropropane	12.21	75	81018	22.778	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	81018	59.819	ug/l #	12
87) 1,3-Dichlorobenzene	13.09	146	1151	0.229	ug/l	87
88) 1,4-Dichlorobenzene	13.09	146	1151	0.225	ug/l	88
89) n-Butylbenzene	13.43	91	2335	0.253	ug/l	94
93) 1,2,4-Trichlorobenzene	14.72	180	1374	0.439	ug/l	98
94) Hexachlorobutadiene	14.82	225	447	0.327	ug/l	100
95) Naphthalene	14.93	128	3597	0.372	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.10	180	1250	0.416	ug/l #	83

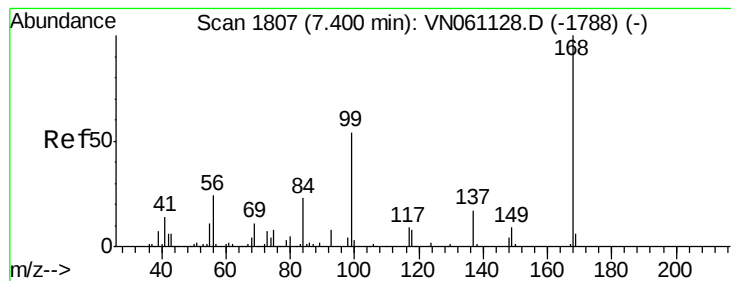
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

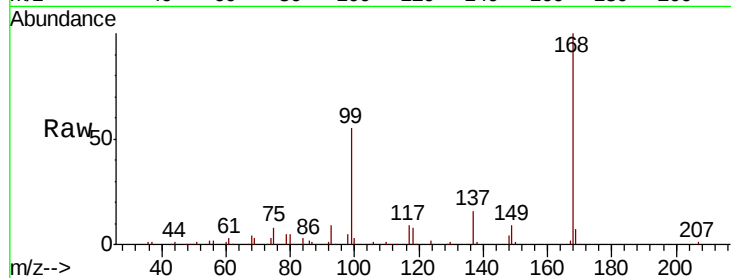
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:168 Resp: 199338

Ion Ratio Lower Upper

168 100

99 55.1 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.40

80000

60000

40000

20000

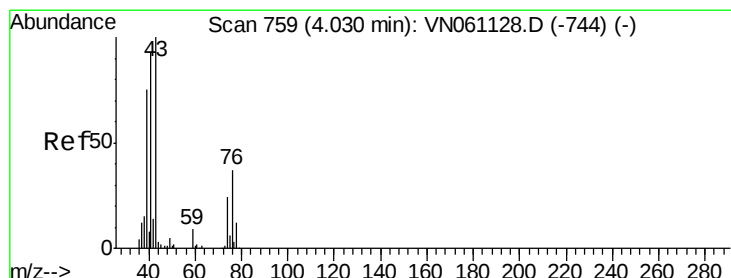
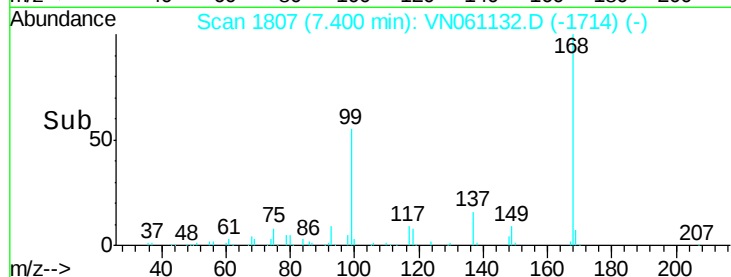
0

Time-->

7.30

7.40

7.50



#14

Allyl chloride

Concen: Below Cal

RT: 4.02 min Scan# 755

Delta R.T. -0.01 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

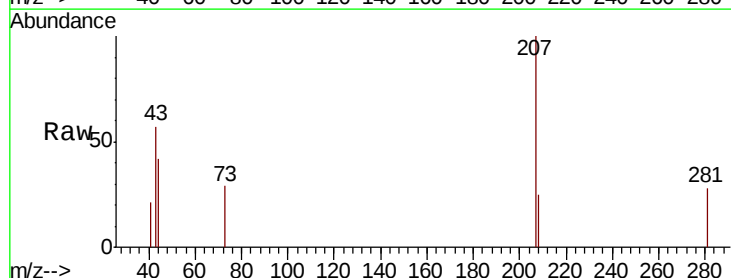
Tgt Ion: 41 Resp: 58

Ion Ratio Lower Upper

41 100

39 0.0 61.0 91.4#

76 0.0 28.9 43.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.02

200

150

100

50

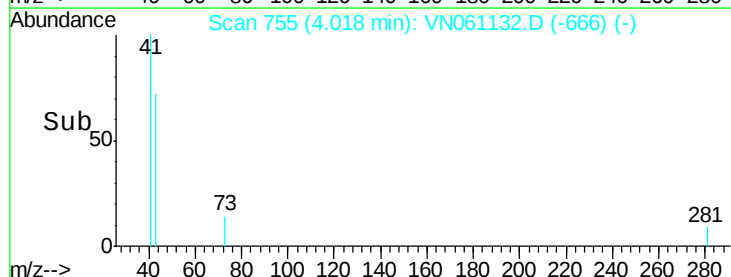
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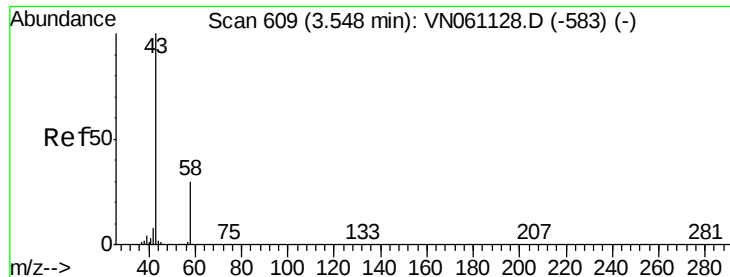
Time-->

4.01

4.02

4.03





#16

Acetone

Concen: Below Cal

RT: 3.55 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

Instrument :

MSVOA_V

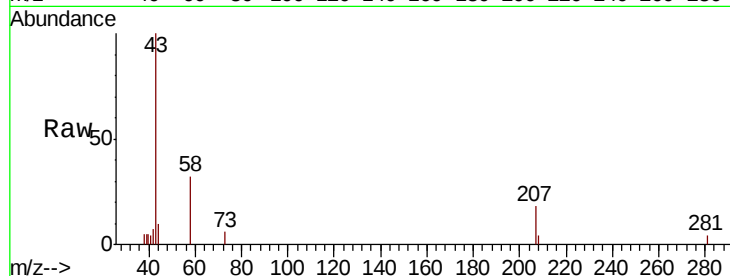
ClientSampled :

Tot Ion: 43 Resp: 11325

Ion Ratio Lower Upper

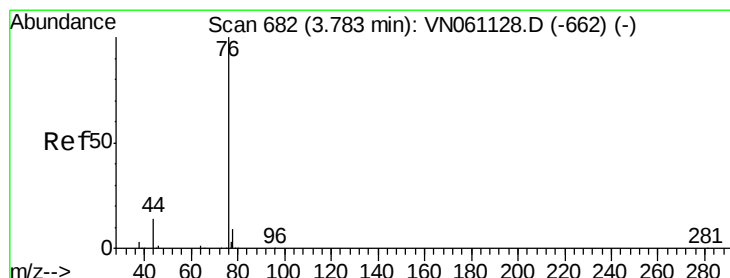
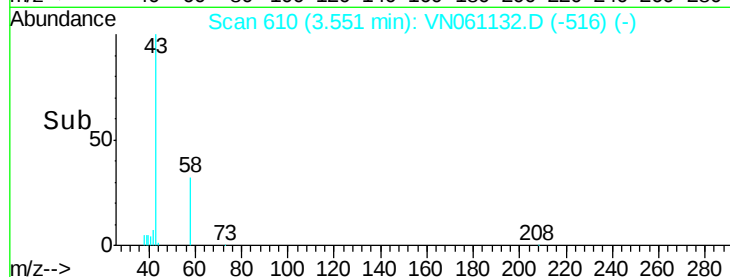
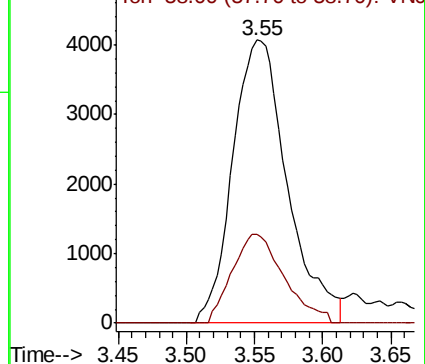
43 100

58 31.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.432 ug/l

RT: 3.79 min Scan# 684

Delta R.T. 0.01 min

Lab File: VN061132.D

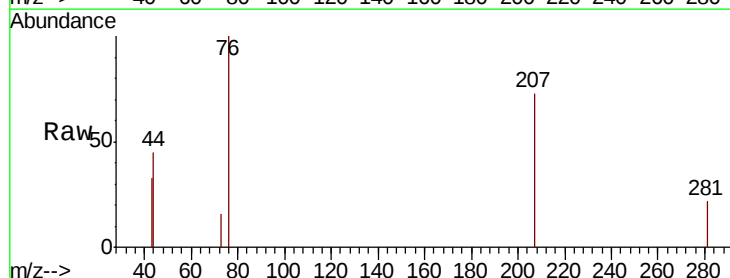
Acq: 22 Apr 2020 17:16

Tgt Ion: 76 Resp: 2575

Ion Ratio Lower Upper

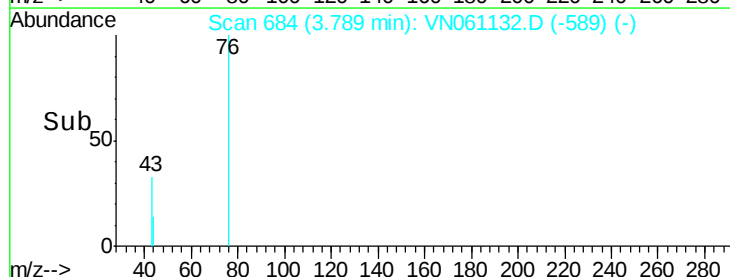
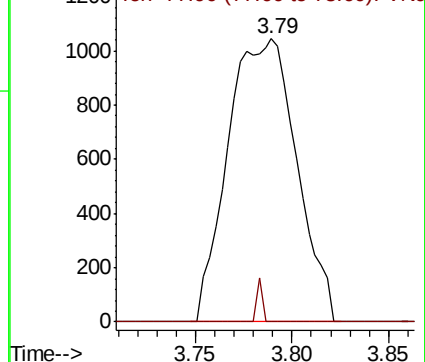
76 100

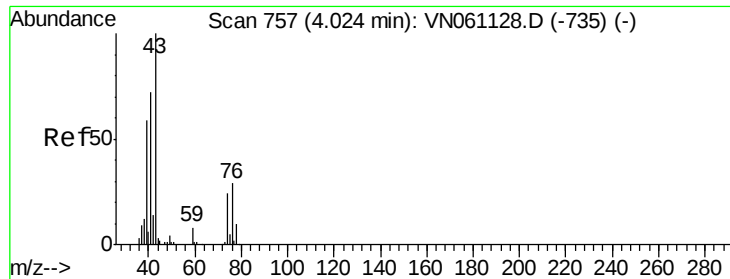
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

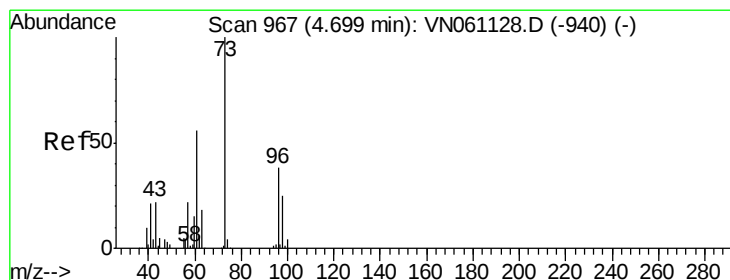
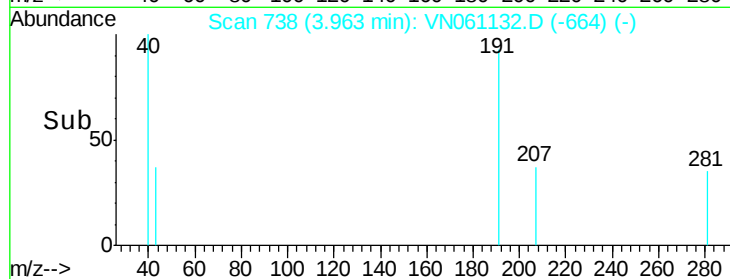
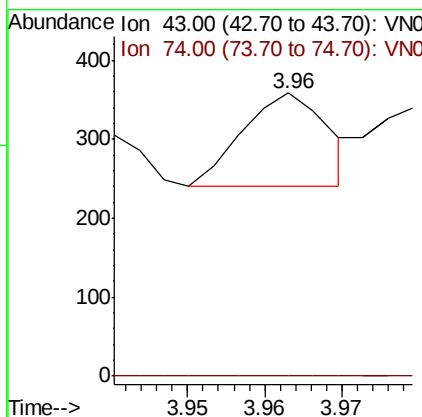
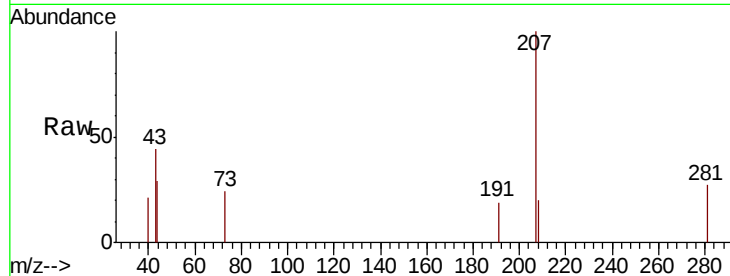




#18
Methvl Acetate
Concen: Below Cal
RT: 3.96 min Scan# 738
Delta R.T. -0.06 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

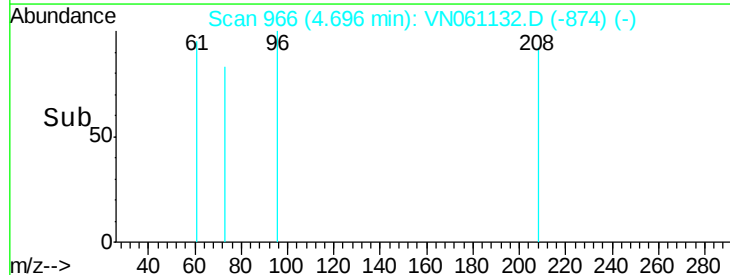
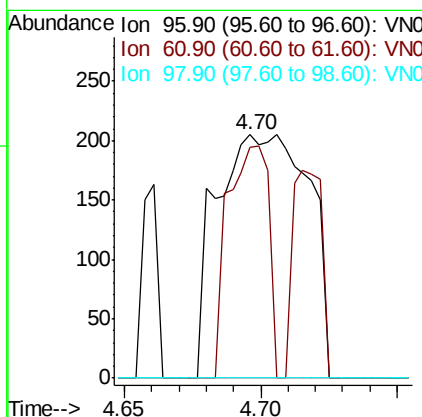
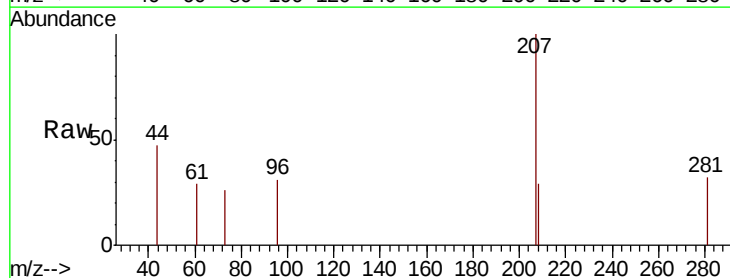
Instrument :
MSVOA_V
ClientSampleId :

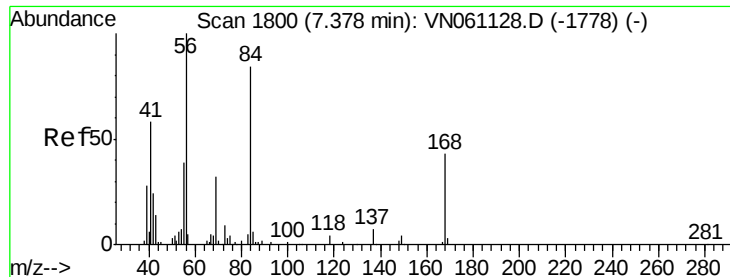
Tot Ion: 43 Resp: 90
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#21
trans-1,2-Dichloroethene
Concen: 0.202 ug/l
RT: 4.70 min Scan# 966
Delta R.T. -0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Tgt Ion: 96 Resp: 483
Ion Ratio Lower Upper
96 100
61 94.6 116.4 174.6#
98 0.0 51.4 77.2#

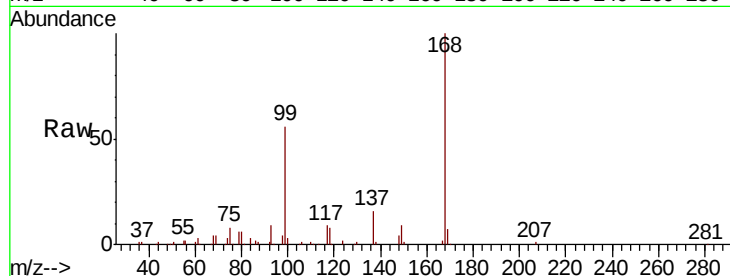




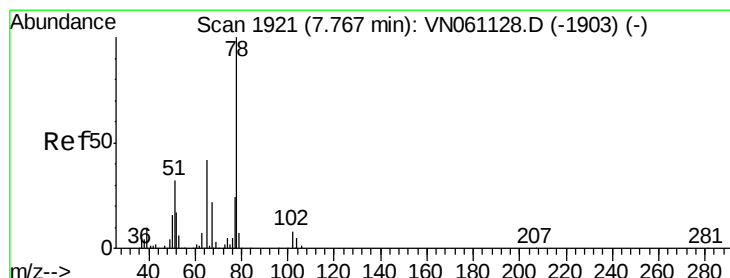
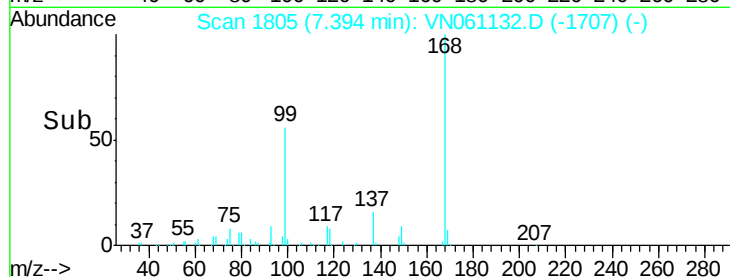
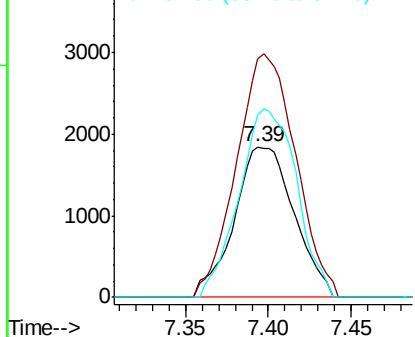
#31
Cyclohexane
Concen: 1.139 ug/l
RT: 7.39 min Scan# 1805
Delta R.T. 0.02 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 4621
Ion Ratio Lower Upper
56 100
69 158.6 25.9 38.9#
84 120.8 67.4 101.0#

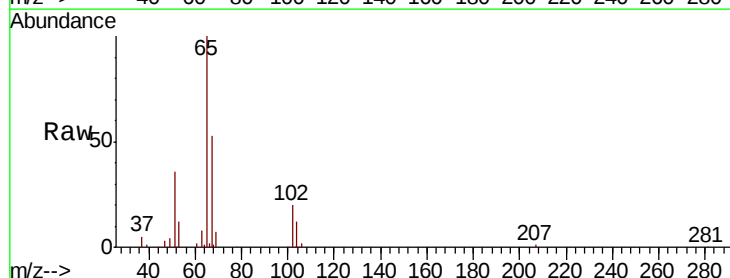


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

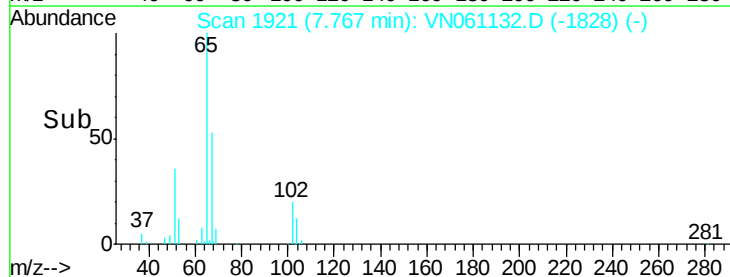
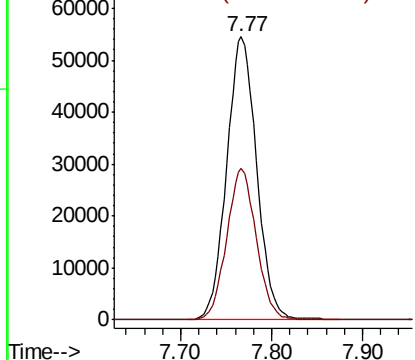


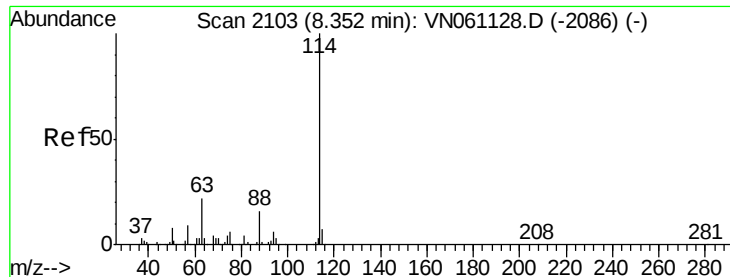
#33
1,2-Dichloroethane-d4
Concen: 47.265 ug/l
RT: 7.77 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Tgt Ion: 65 Resp: 124929
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

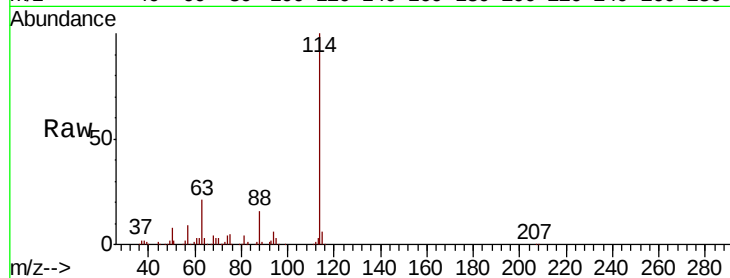




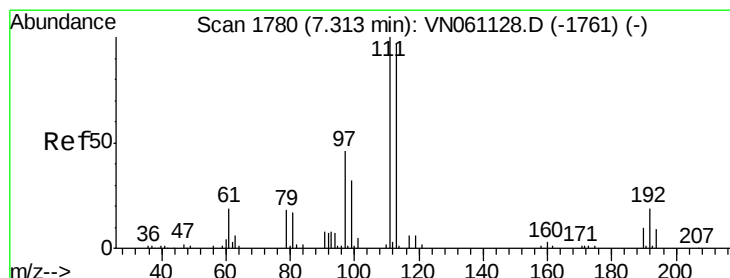
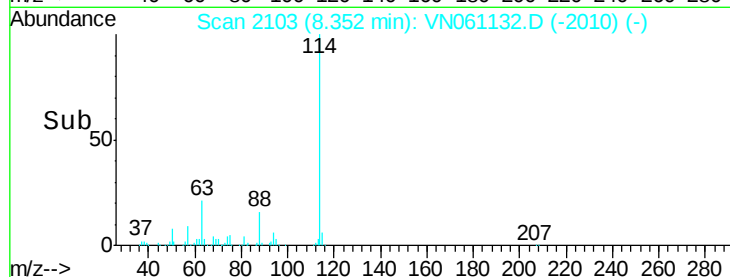
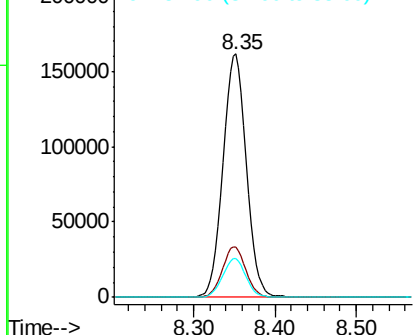
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.35 min Scan# 2103
 Delta R.T. 0.00 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:114 Resp: 328701
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 43.2
 88 15.8 0.0 32.4

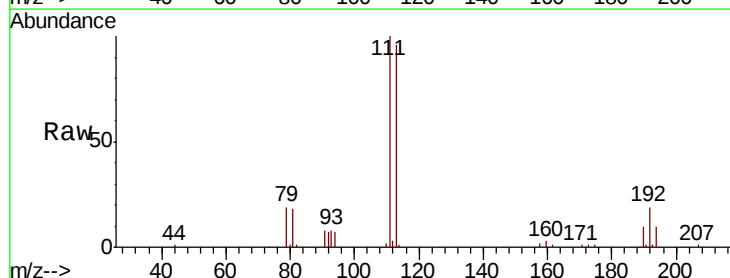


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

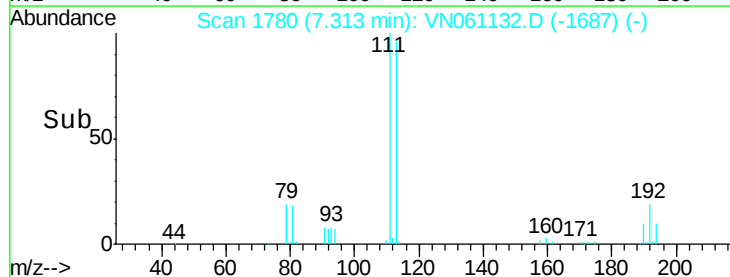
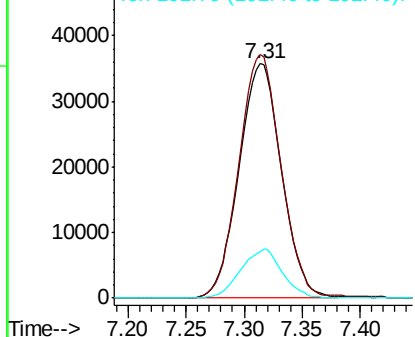


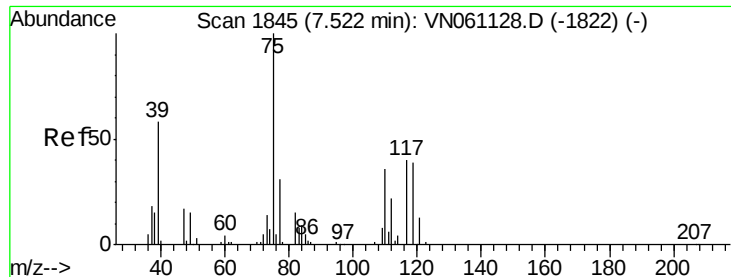
#35
 Dibromofluoromethane
 Concen: 48.761 ug/l
 RT: 7.31 min Scan# 1780
 Delta R.T. 0.00 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

Tgt Ion:113 Resp: 91469
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.0 124.6
 192 20.4 15.8 23.6



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

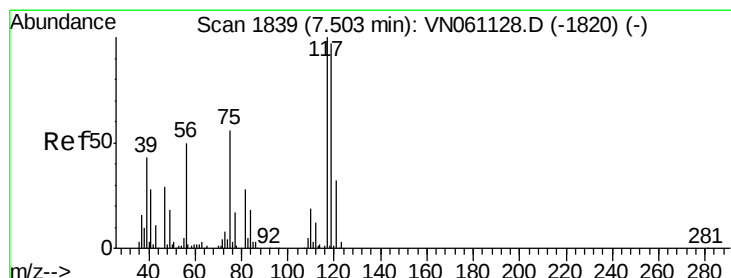
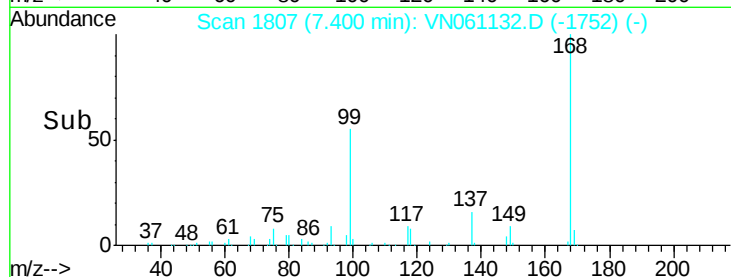
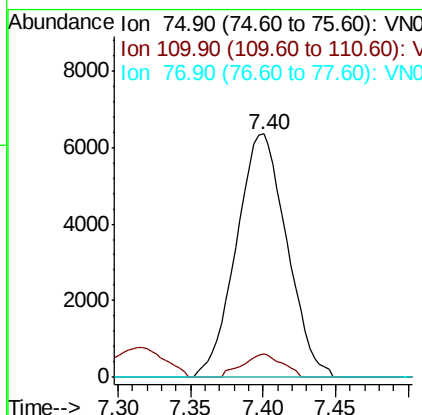
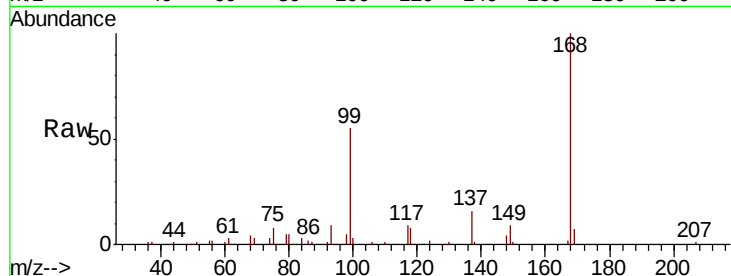




#36
 1,1-Dichloropropene
 Concen: 4.783 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.12 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

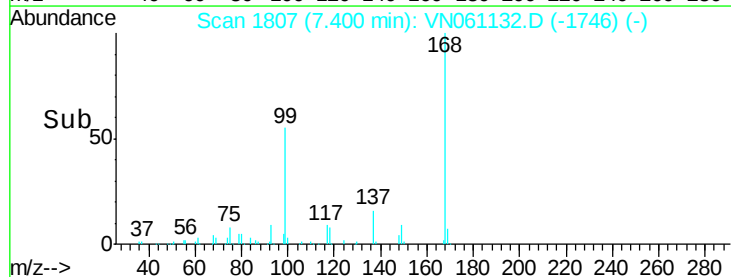
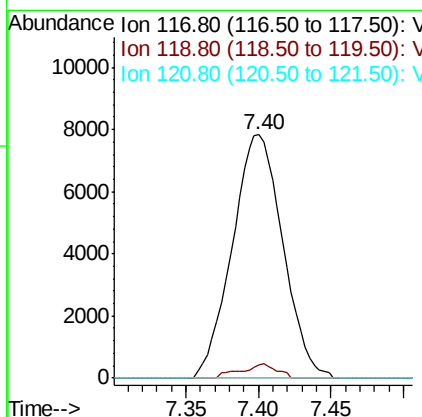
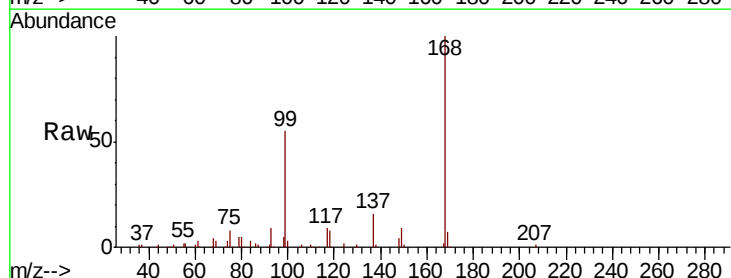
Instrument :
 MSVOA_V
 ClientSampleId :

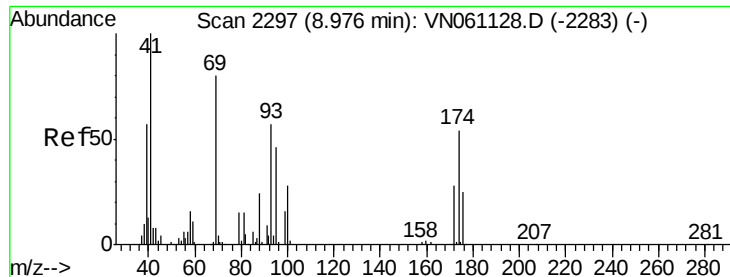
Tot Ion	75	Resp	15367
Ion Ratio	100	Lower	Upper
75	100		
110	7.4	17.7	53.1#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.742 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.10 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

Tgt Ion	117	Resp	18961
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.3	76.9	115.3#
121	0.0	25.0	37.6#

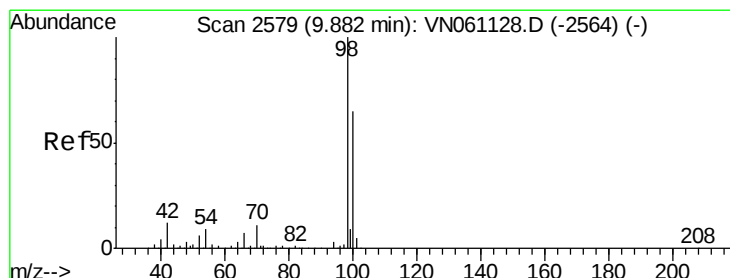
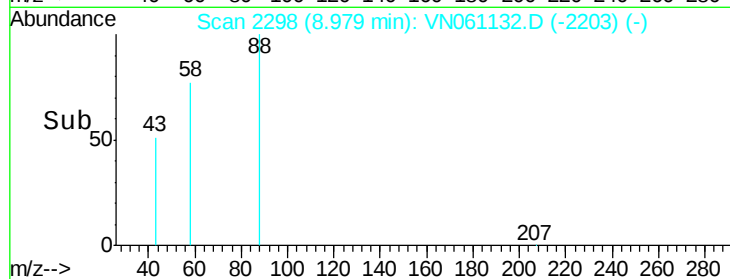
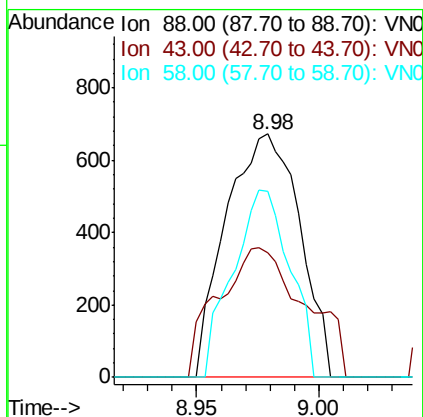
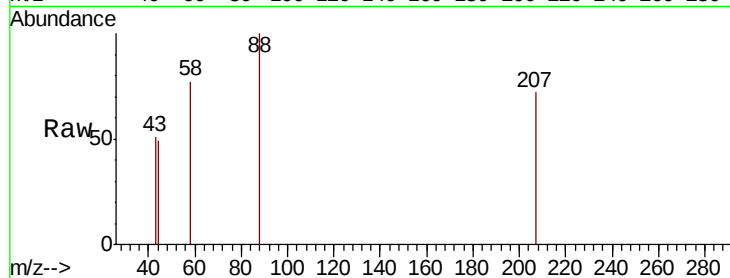




#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 8.98 min Scan# 2298
 Delta R.T. 0.00 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

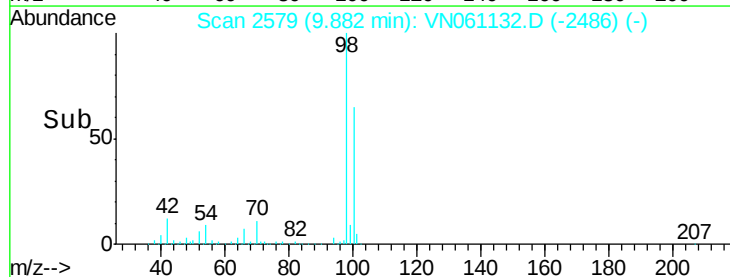
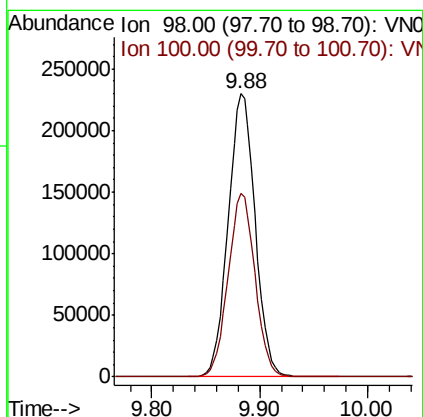
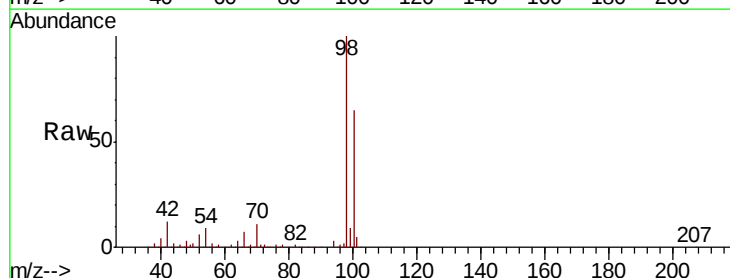
Instrument :
 MSVOA_V
 ClientSampleId :

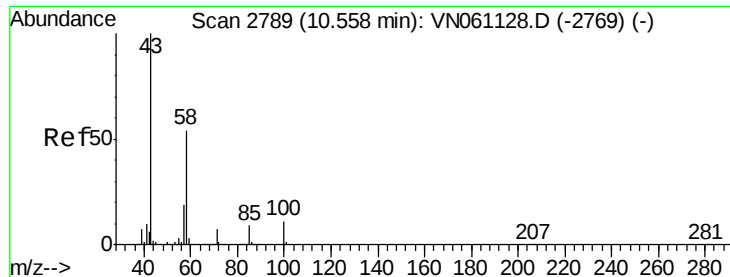
Tot Ion: 88 Resp: 1411
 Ion Ratio Lower Upper
 88 100
 43 62.6 29.0 43.4#
 58 59.5 57.8 86.6



#50
 Toluene-d8
 Concen: 49.927 ug/l
 RT: 9.88 min Scan# 2579
 Delta R.T. 0.00 min
 Lab File: VN061132.D
 Acq: 22 Apr 2020 17:16

Tgt Ion: 98 Resp: 401334
 Ion Ratio Lower Upper
 98 100
 100 64.6 51.8 77.6

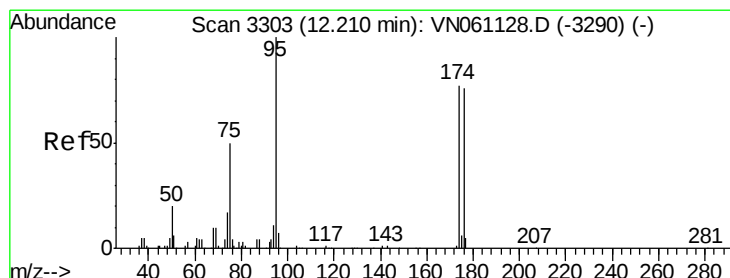
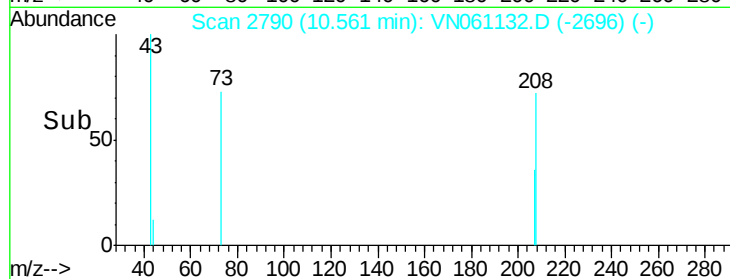
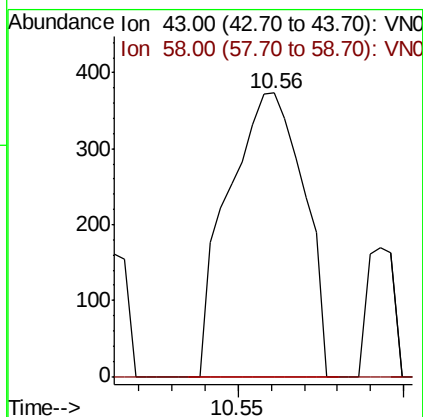
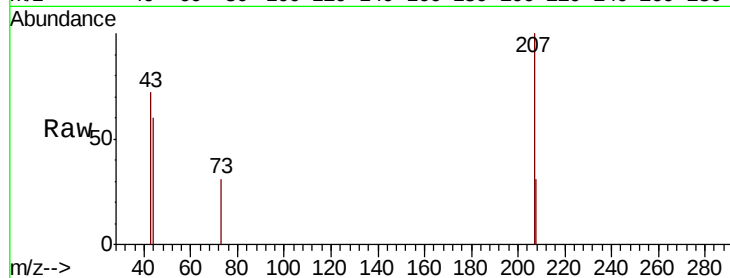




#59
2-Hexanone
Concen: 0.251 ug/l
RT: 10.56 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

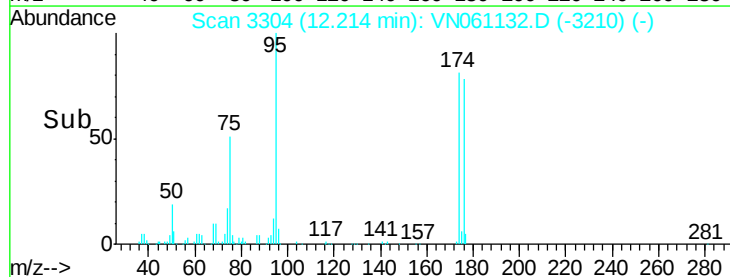
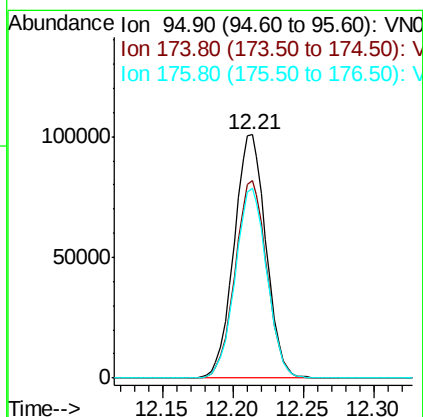
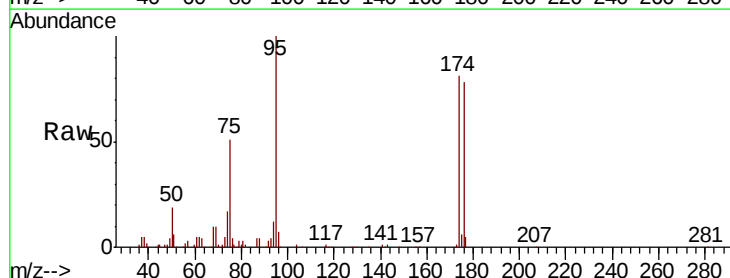
Instrument :
MSVOA_V
ClientSampleId :

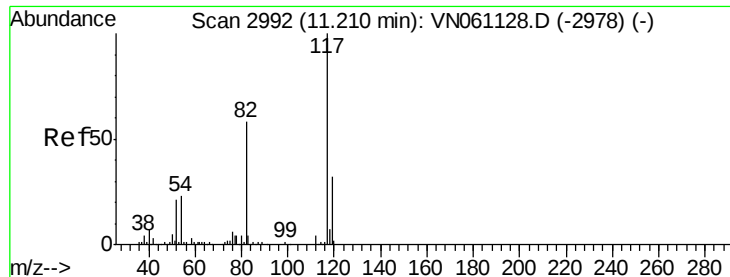
Tot Ion: 43 Resp: 591
Ion Ratio Lower Upper
43 100
58 0.0 26.9 80.6#



#62
4-Bromofluorobenzene
Concen: 53.132 ug/l
RT: 12.21 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Tgt Ion: 95 Resp: 159954
Ion Ratio Lower Upper
95 100
174 80.4 0.0 157.6
176 77.2 0.0 154.4

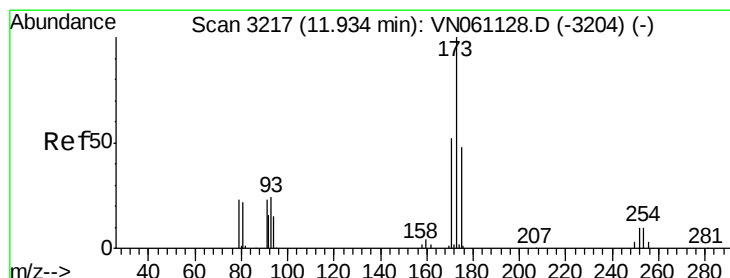
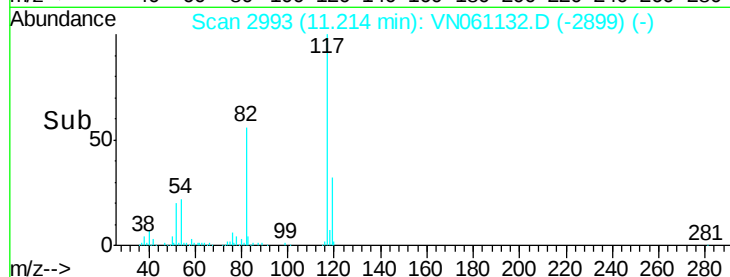
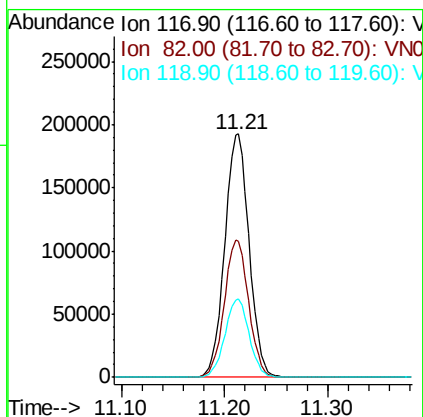
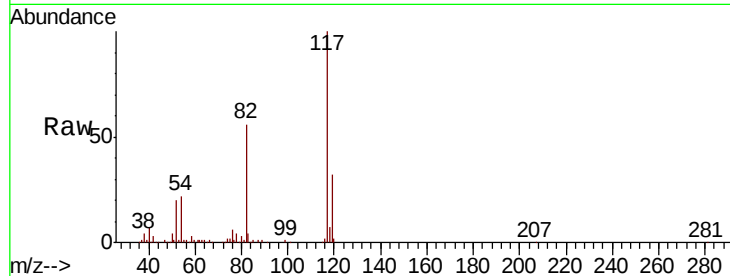




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.21 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

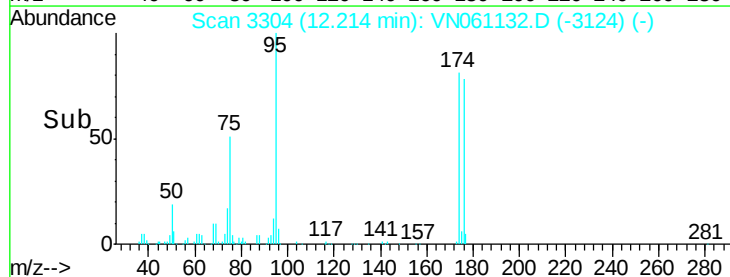
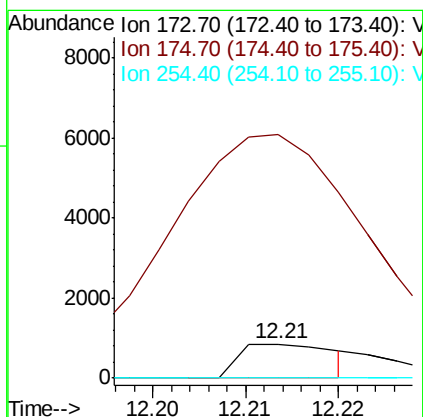
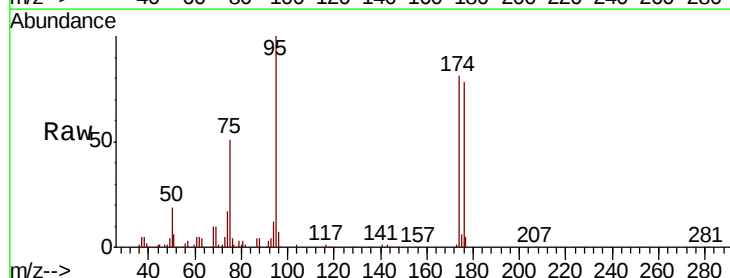
Instrument :
MSVOA_V
ClientSampled :

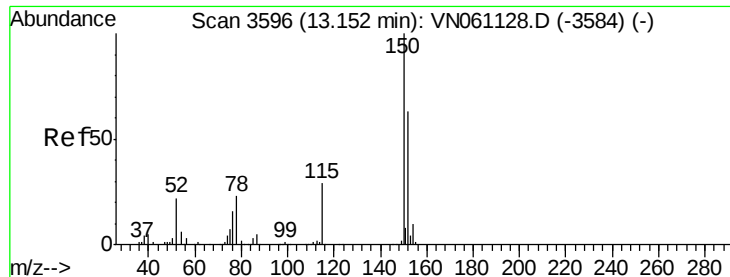
Tot Ion:117 Resp: 316502
Ion Ratio Lower Upper
117 100
82 55.9 46.0 69.0
119 32.2 25.9 38.9



#71
Bromoform
Concen: 0.357 ug/l
RT: 12.21 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Tgt Ion:173 Resp: 613
Ion Ratio Lower Upper
173 100
175 1254.6 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

Instrument :

MSVOA_V

ClientSampleId :

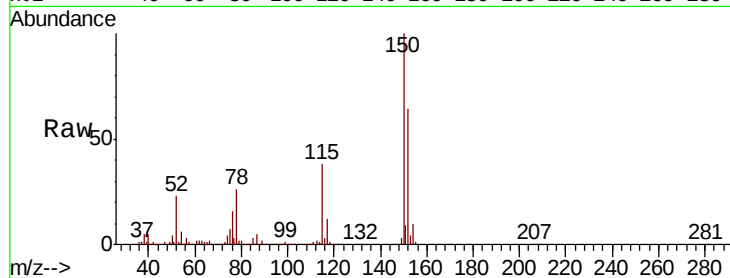
Tot Ion:152 Resp: 154201

Ion Ratio Lower Upper

152 100

115 59.0 29.8 89.5

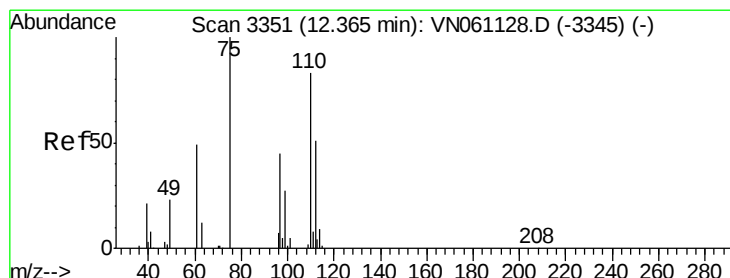
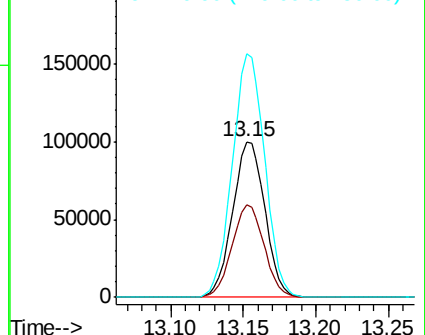
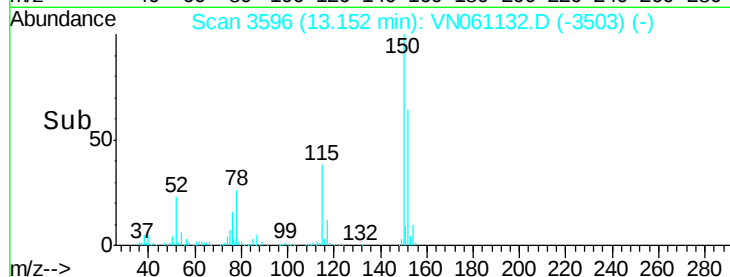
150 157.0 0.0 348.6



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: 22.778 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061132.D

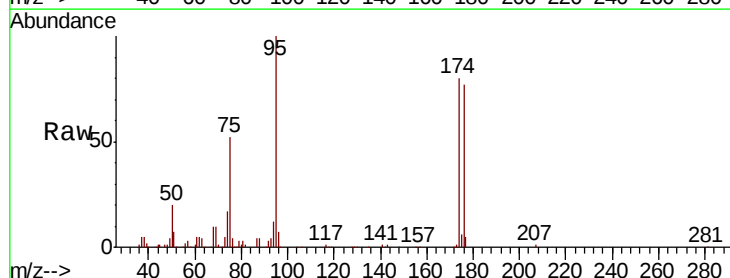
Acq: 22 Apr 2020 17:16

Tgt Ion: 75 Resp: 81018

Ion Ratio Lower Upper

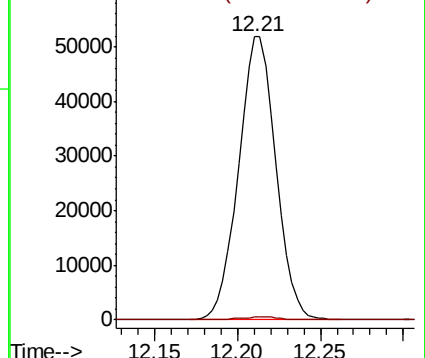
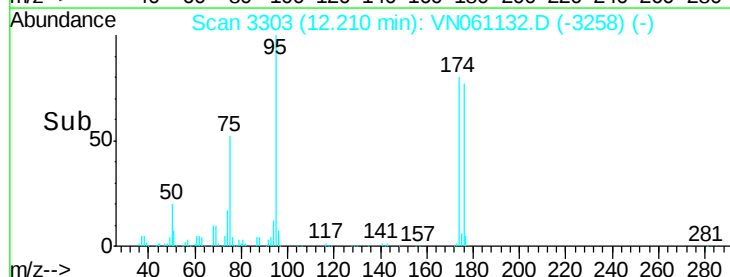
75 100

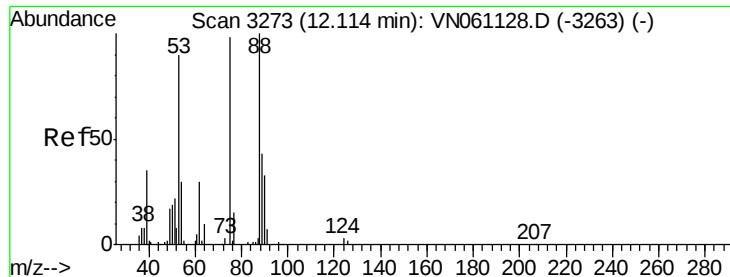
77 0.9 0.0 0.0#



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: 59.819 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

Instrument :

MSVOA_V

ClientSampleId :

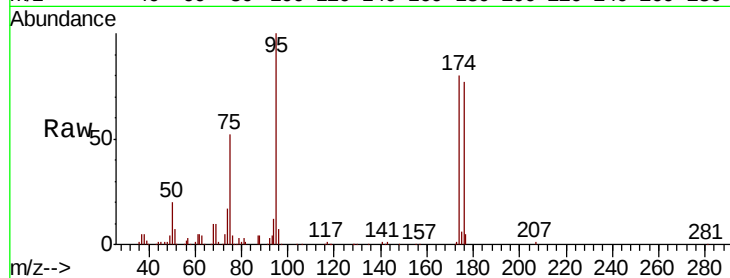
Tot Ion: 75 Resp: 81018

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

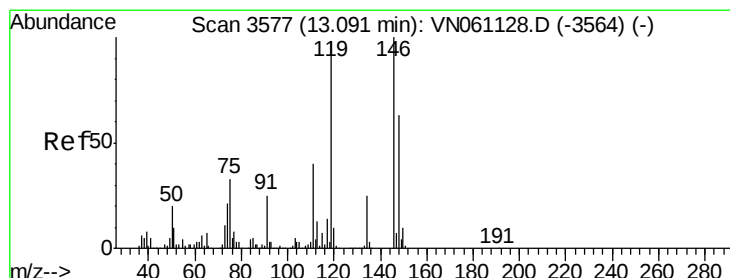
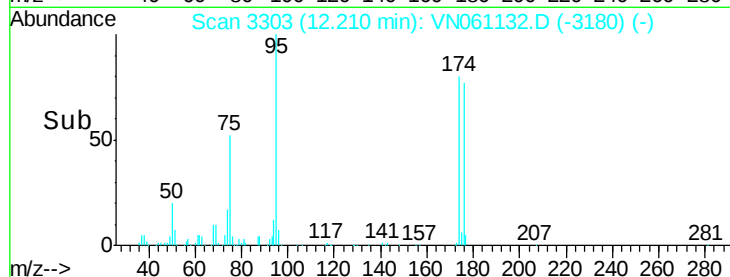
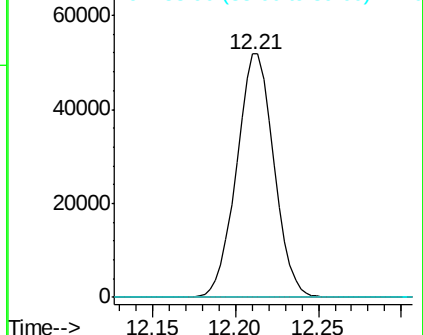
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061132.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN061132.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN061132.D (-3180) (-)



#87

1,3-Dichlorobenzene

Concen: 0.229 ug/l

RT: 13.09 min Scan# 3577

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

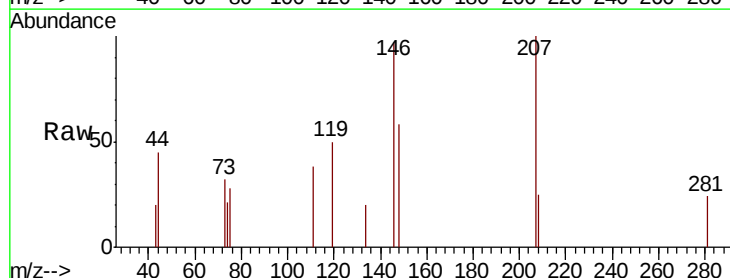
Tgt Ion: 146 Resp: 1151

Ion Ratio Lower Upper

146 100

111 31.9 20.3 60.9

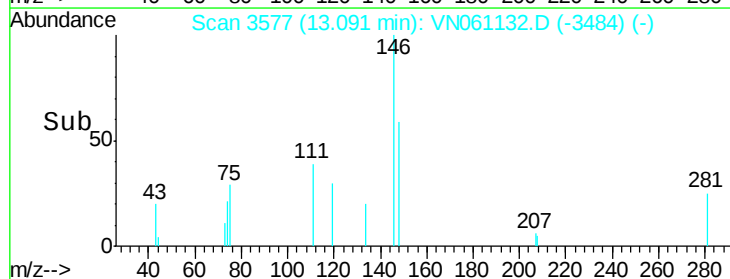
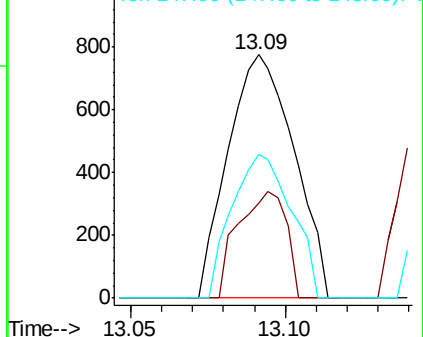
148 53.7 31.9 95.5

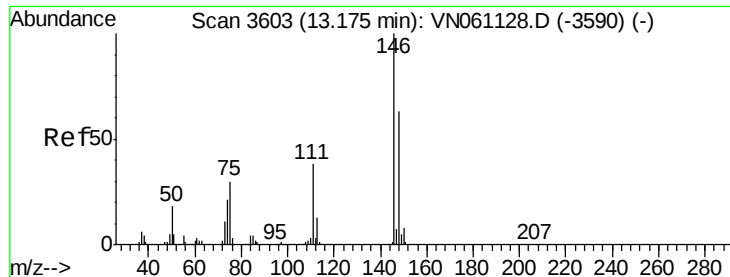


Abundance Ion 145.90 (145.60 to 146.60): VN061132.D (-3484) (-)

Ion 110.90 (110.60 to 111.60): VN061132.D (-3484) (-)

Ion 147.90 (147.60 to 148.60): VN061132.D (-3484) (-)





#88

1,4-Dichlorobenzene

Concen: 0.225 ug/l

RT: 13.09 min Scan# 3577

Delta R.T. -0.08 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

Instrument :

MSVOA_V

ClientSampled :

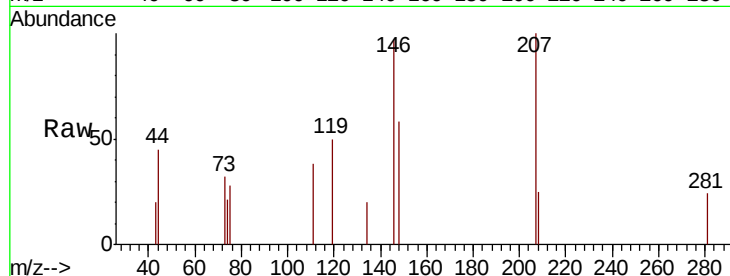
Tot Ion:146 Resp: 1151

Ion Ratio Lower Upper

146 100

111 31.9 19.7 59.1

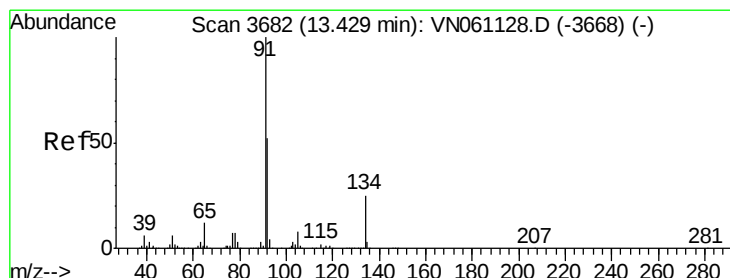
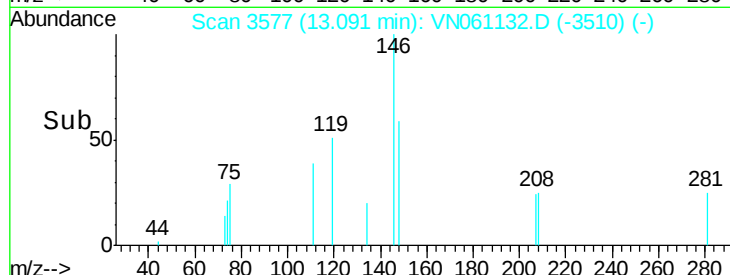
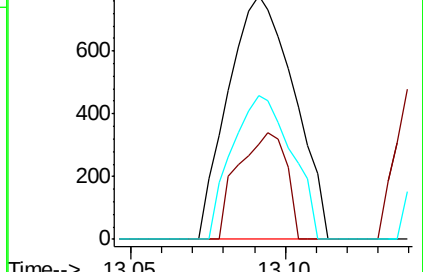
148 53.7 31.8 95.3



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



#89

n-Butylbenzene

Concen: 0.253 ug/l

RT: 13.43 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

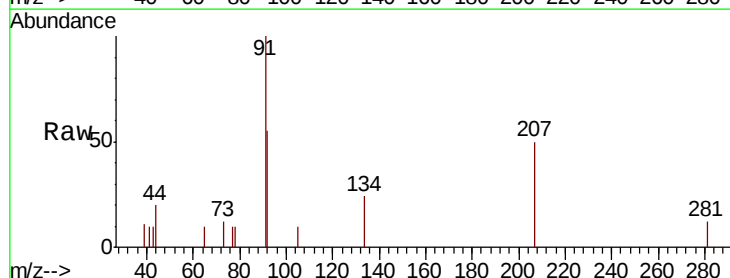
Tgt Ion: 91 Resp: 2335

Ion Ratio Lower Upper

91 100

92 49.3 26.1 78.2

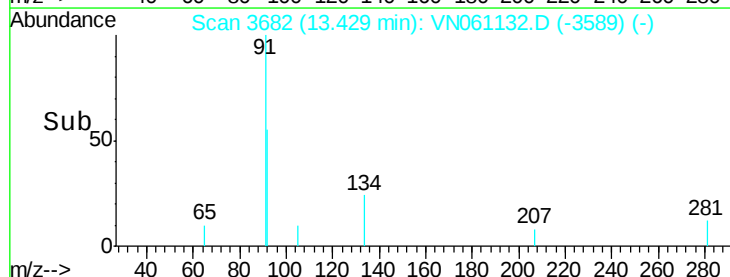
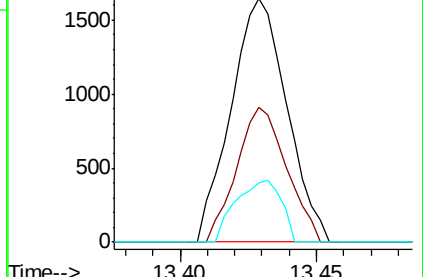
134 20.6 12.6 37.6

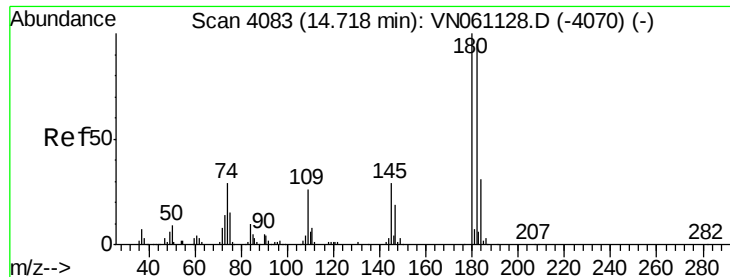


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 0.439 ug/l

RT: 14.72 min Scan# 4083

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

Instrument :

MSVOA_V

ClientSampled :

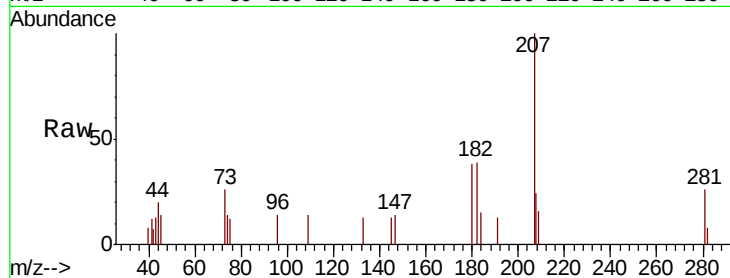
Tot Ion:180 Resp: 1374

Ion Ratio Lower Upper

180 100

182 93.7 47.9 143.7

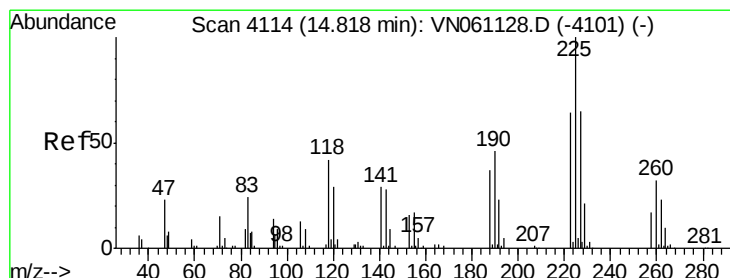
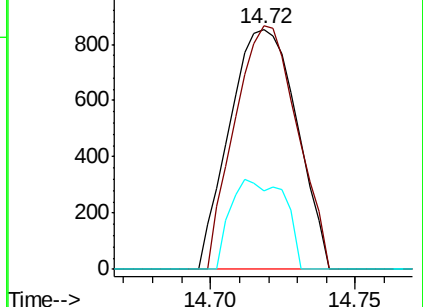
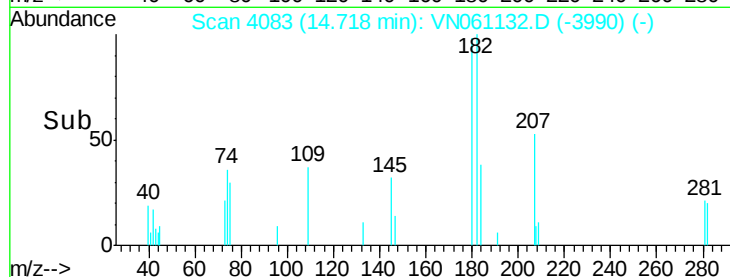
145 29.9 15.2 45.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.327 ug/l

RT: 14.82 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VN061132.D

Acq: 22 Apr 2020 17:16

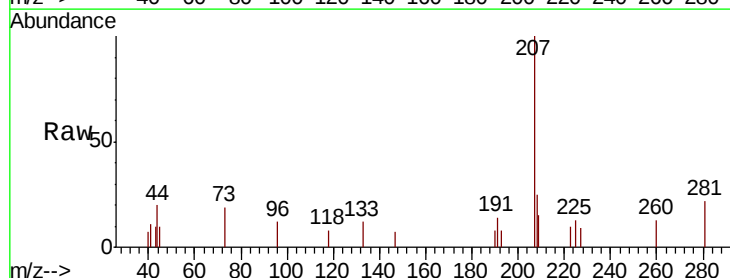
Tgt Ion:225 Resp: 447

Ion Ratio Lower Upper

225 100

223 63.3 31.6 95.0

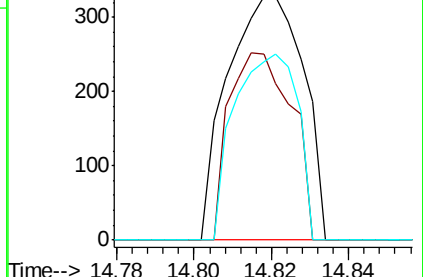
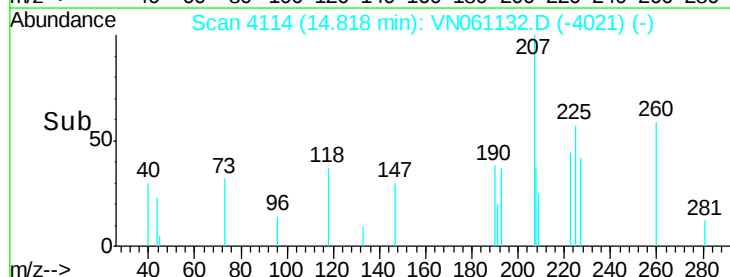
227 63.5 32.0 96.2

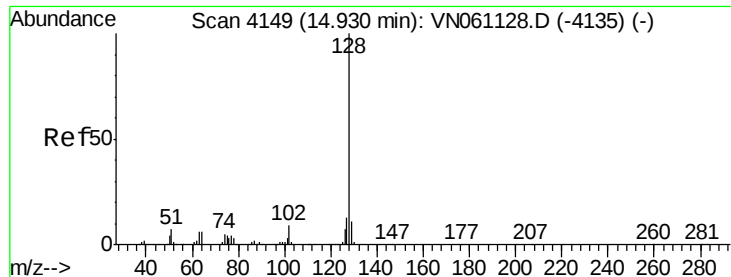


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

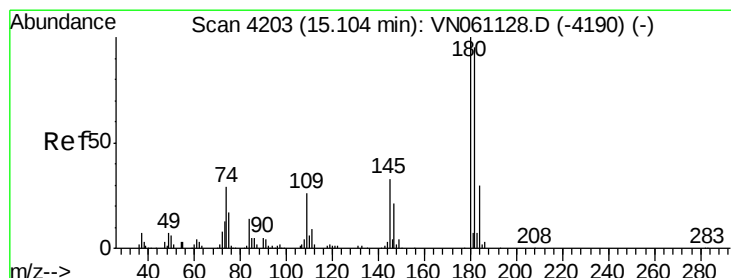
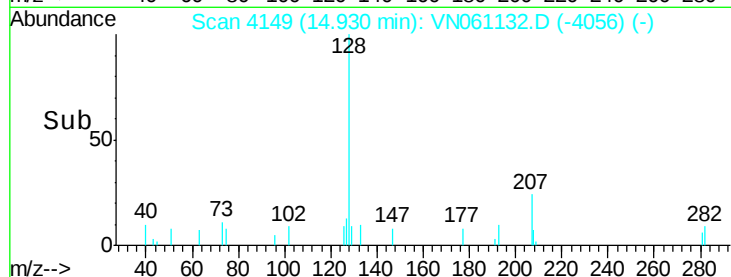
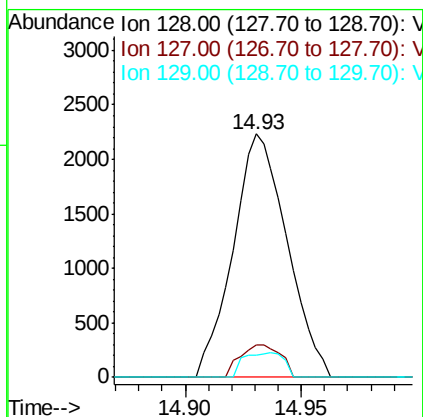
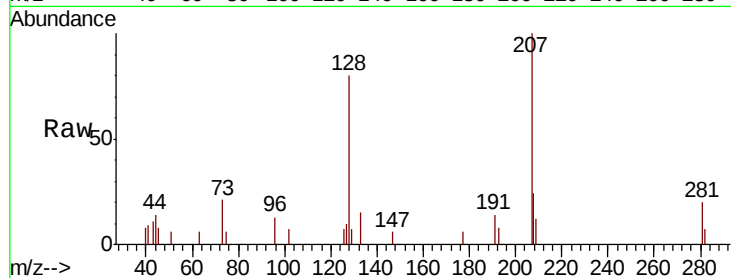




#95
Naphthalene
Concen: 0.372 ug/l
RT: 14.93 min Scan# 4149
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 3597
Ion Ratio Lower Upper
128 100
127 10.0 10.2 15.4#
129 7.5 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.416 ug/l
RT: 15.10 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061132.D
Acq: 22 Apr 2020 17:16

Tgt Ion:180 Resp: 1250
Ion Ratio Lower Upper
180 100
182 84.9 47.7 143.1
145 12.2 16.3 48.8#

