

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055519.D
 Acq On : 10 May 2019 1:14
 Operator : JC/SP
 Sample : K2758-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 04:21:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

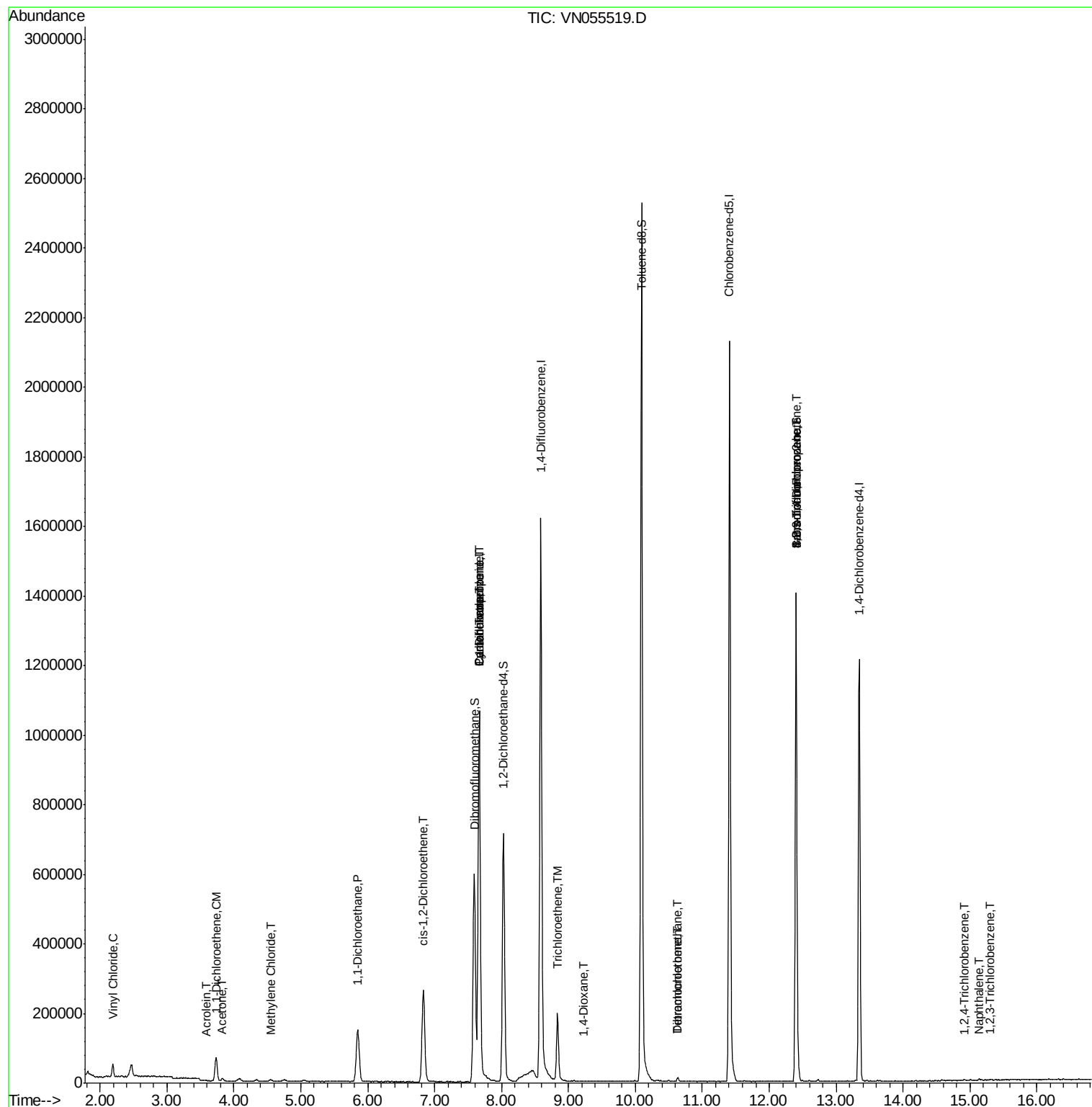
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	889127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1507290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1269364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	350730	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	605584	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
35) Dibromofluoromethane	7.59	113	468394	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	10.09	98	1841930	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
62) 4-Bromofluorobenzene	12.40	95	531311	41.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.18%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	34989	2.520	ug/l	99
12) 1,1-Dichloroethene	3.73	96	34629	3.564	ug/l	98
13) Acrolein	3.60	56	300	0.228	ug/l #	40
16) Acetone	3.82	43	11383	1.836	ug/l	99
18) Methyl Acetate	4.34	43	8644	Below Cal	#	82
20) Methylene Chloride	4.55	84	3236	0.255	ug/l #	90
24) 1,1-Dichloroethane	5.85	63	233508	10.693	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	169721	13.939	ug/l	91
31) Cyclohexane	7.67	56	18969	0.878	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	71478	4.814	ug/l #	50
38) Carbon Tetrachloride	7.67	117	86668	6.931	ug/l #	16
44) Trichloroethene	8.83	130	70948	6.470	ug/l	99
49) 1,4-Dioxane	9.21	88	474	2.051	ug/l #	1
60) Dibromochloromethane	10.63	129	2543	0.262	ug/l #	11
64) Tetrachloroethene	10.63	164	2663	0.256	ug/l	90
71) Bromoform	12.40	173	3740	0.616	ug/l #	1
73) Isopropylbenzene	12.25	105	784	Below Cal		98
75) 1,1,2,2-Tetrachloroethane	12.50	83	186	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	260354	27.268	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	260354	100.614	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	780	3.346	ug/l	78
94) Hexachlorobutadiene	15.02	225	441	Below Cal	#	51
95) Naphthalene	15.13	128	3677	3.174	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.31	180	1068	2.603	ug/l #	58

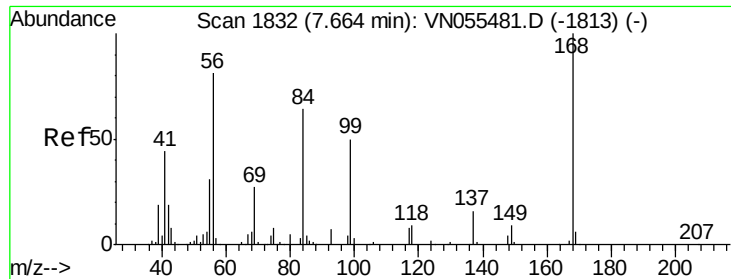
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 09 04:17:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

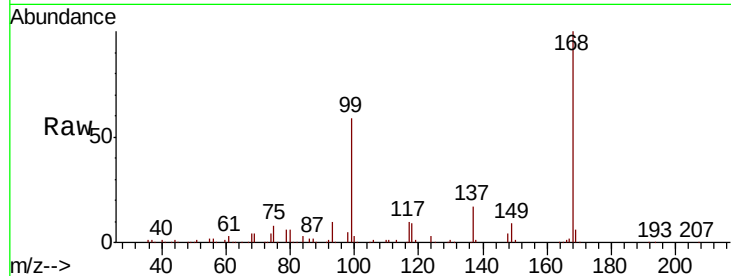
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 889127

Ion Ratio Lower Upper

168 100

99 58.6 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

300000

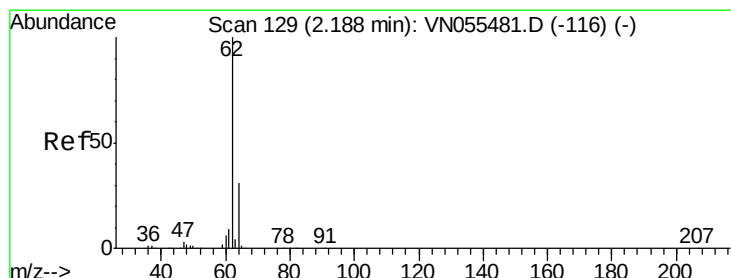
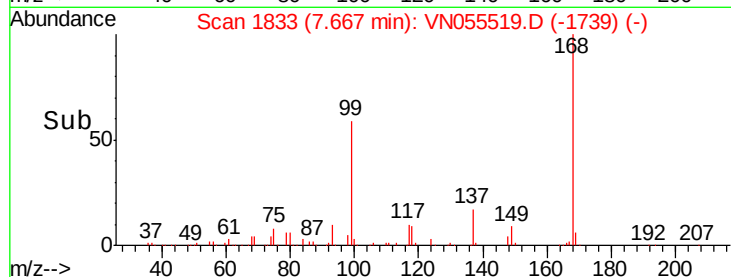
200000

100000

0

Time-->

7.60 7.70 7.80



#4

Vinyl Chloride

Concen: 2.520 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN055519.D

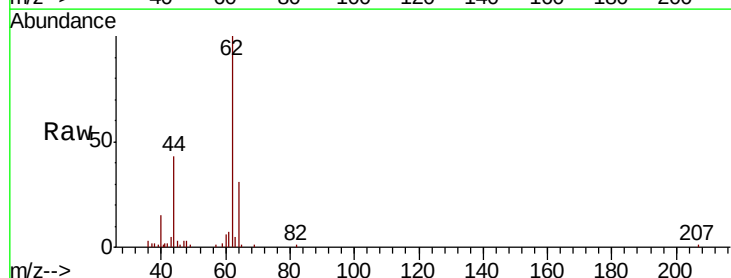
Acq: 10 May 2019 1:14

Tgt Ion: 62 Resp: 34989

Ion Ratio Lower Upper

62 100

64 30.6 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

25000

20000

15000

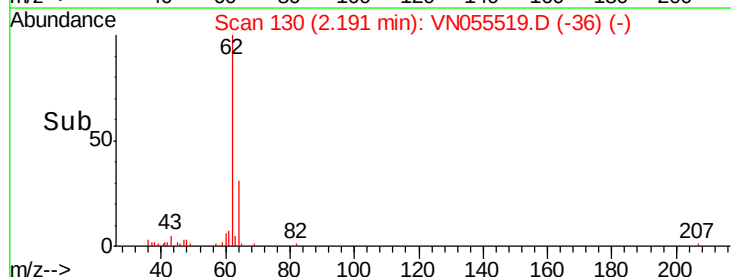
10000

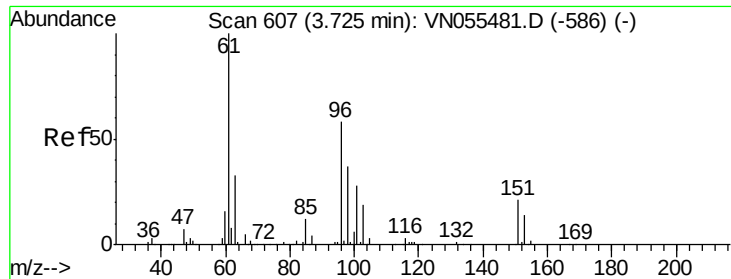
5000

0

Time-->

2.15 2.20 2.25

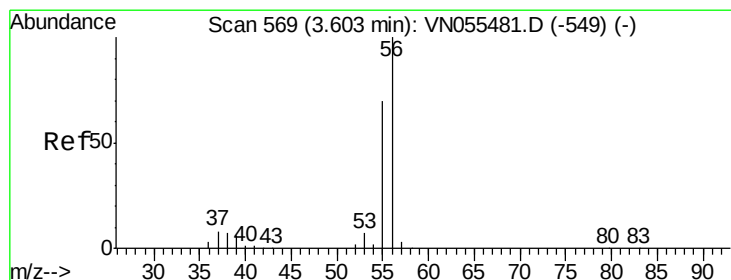
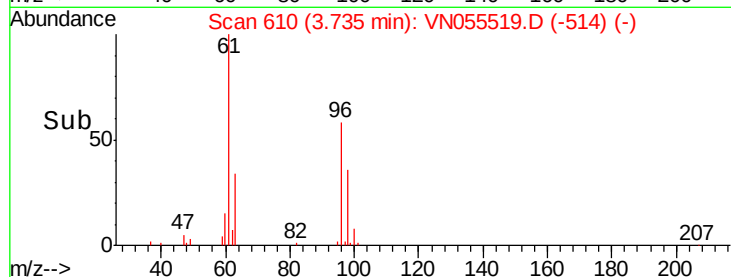
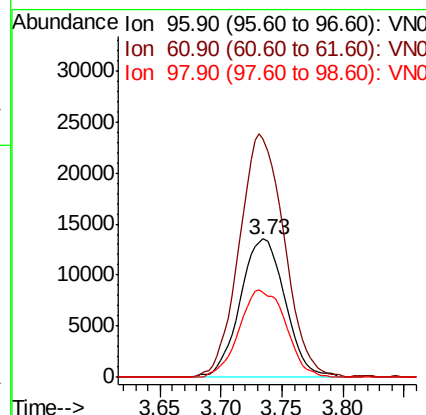
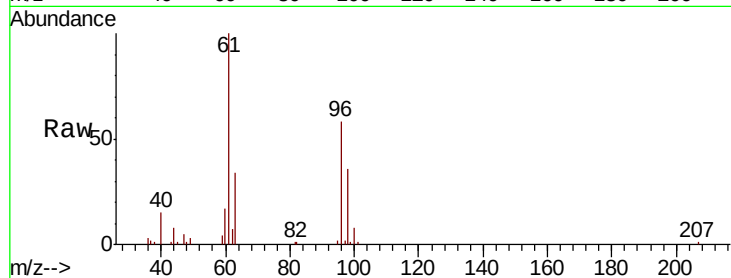




#12
 1,1-Dichloroethene
 Concen: 3.564 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.01 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

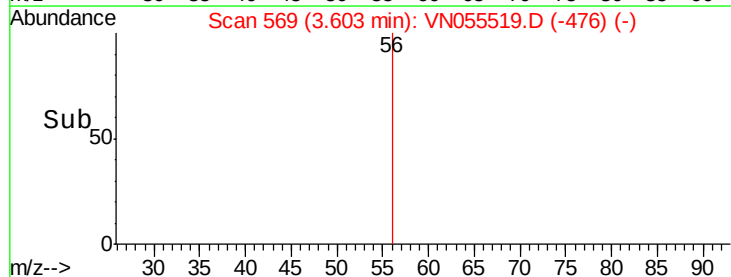
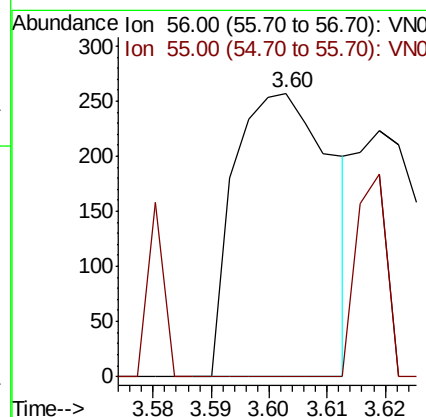
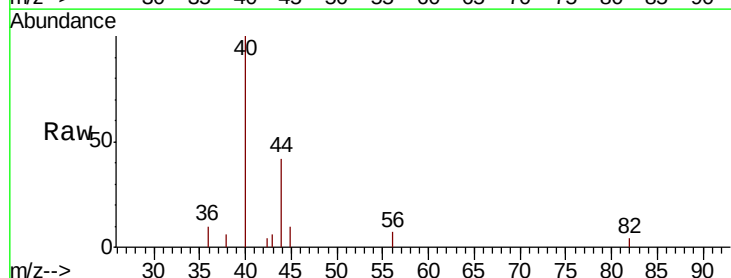
Instrument :
 MSVOA_N
 ClientSampled :

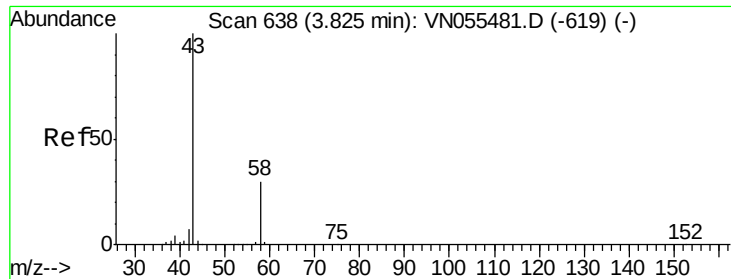
Tot Ion: 96 Resp: 34629
 Ion Ratio Lower Upper
 96 100
 61 171.8 138.7 208.1
 98 61.1 50.6 76.0



#13
 Acrolein
 Concen: 0.228 ug/l
 RT: 3.60 min Scan# 569
 Delta R.T. -0.00 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

Tgt Ion: 56 Resp: 300
 Ion Ratio Lower Upper
 56 100
 55 22.0 57.7 86.5#





#16

Acetone

Concen: 1.836 ug/l

RT: 3.82 min Scan# 638

Delta R.T. -0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

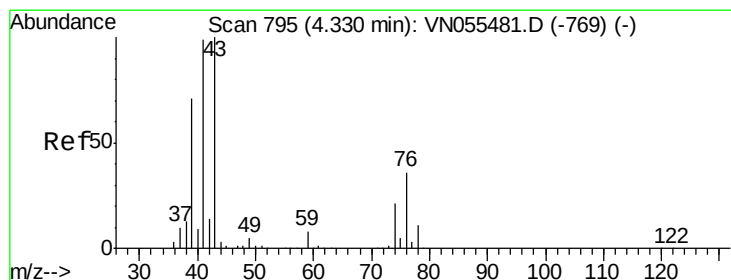
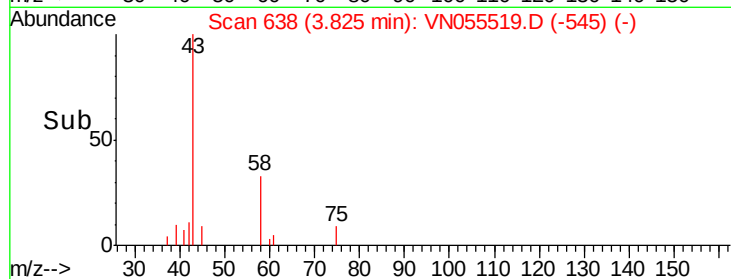
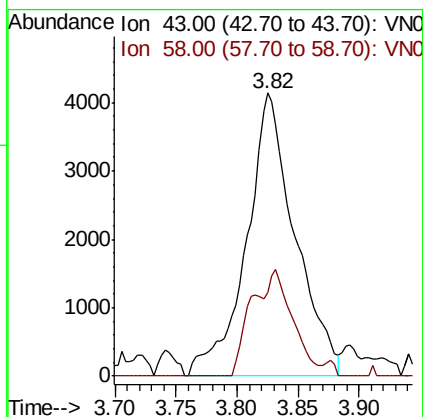
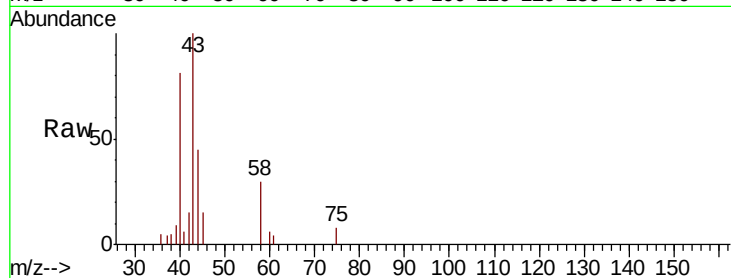
ClientSampleId :

Tot Ion: 43 Resp: 11383

Ion Ratio Lower Upper

43 100

58 29.8 24.2 36.2



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055519.D

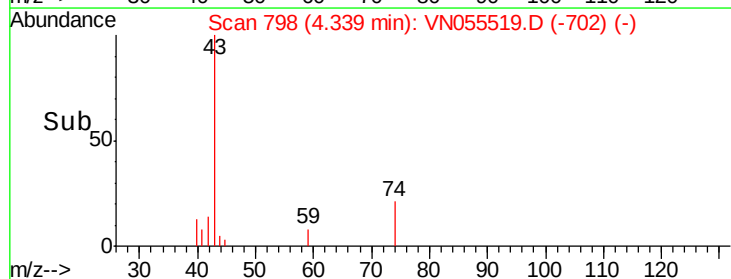
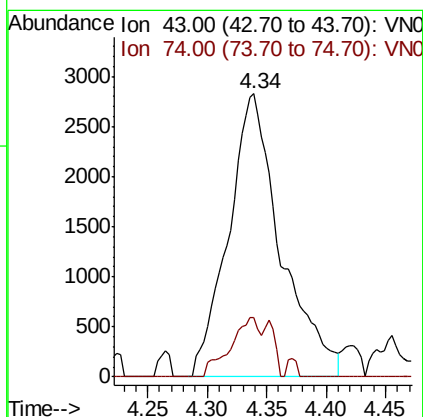
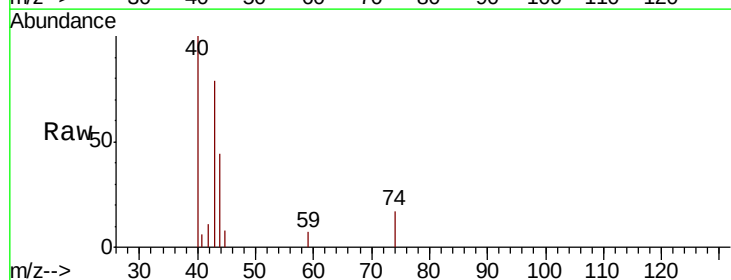
Acq: 10 May 2019 1:14

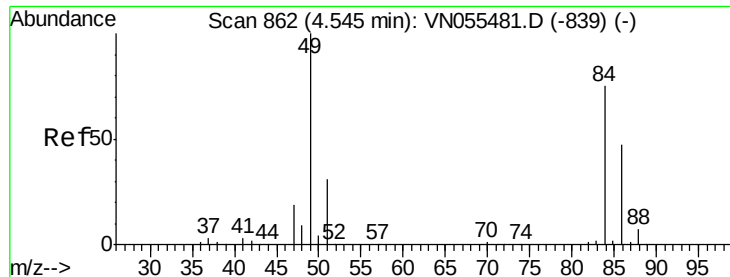
Tgt Ion: 43 Resp: 8644

Ion Ratio Lower Upper

43 100

74 11.9 16.3 24.5#

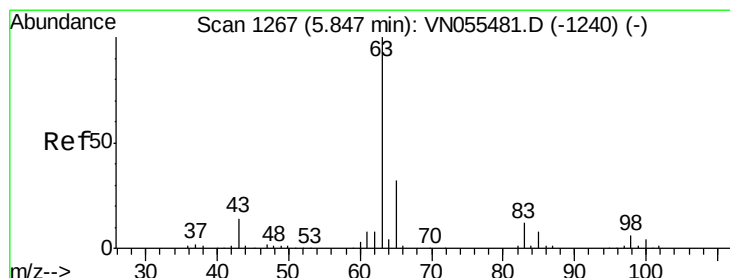
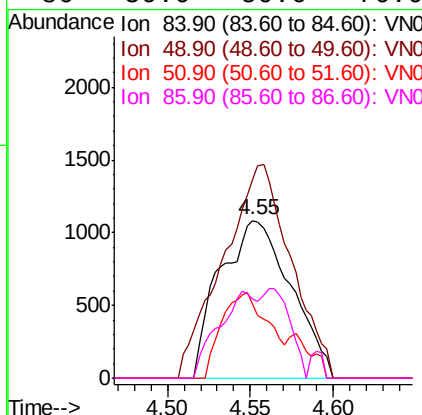
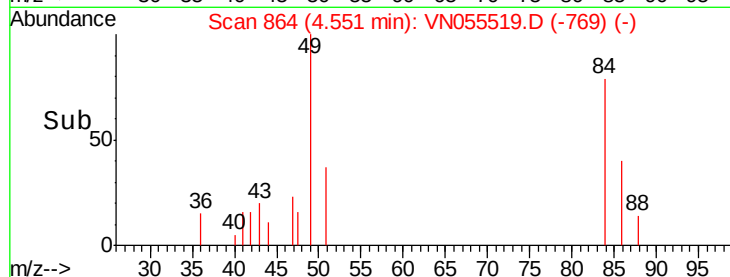
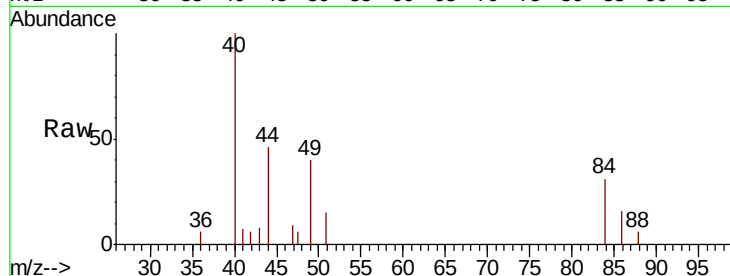




#20
Methylene Chloride
Concen: 0.255 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

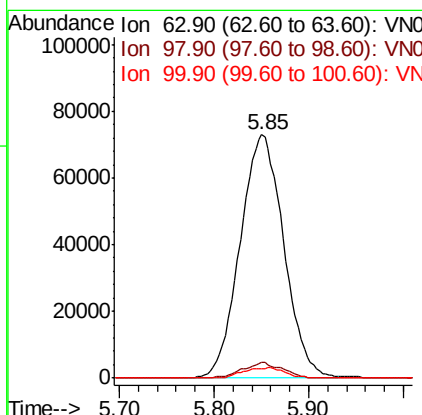
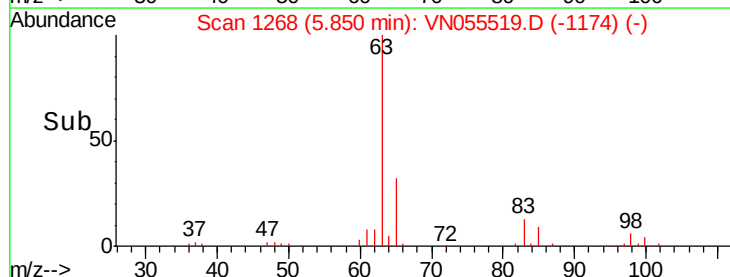
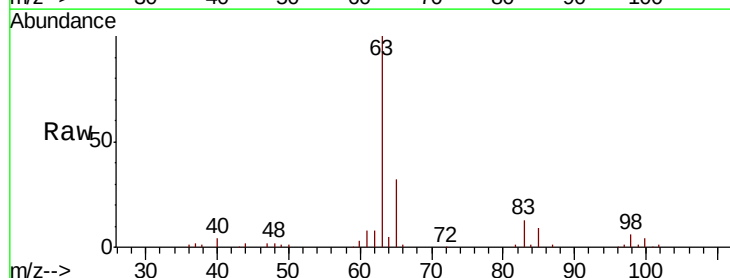
Instrument :
MSVOA_N
ClientSampled :

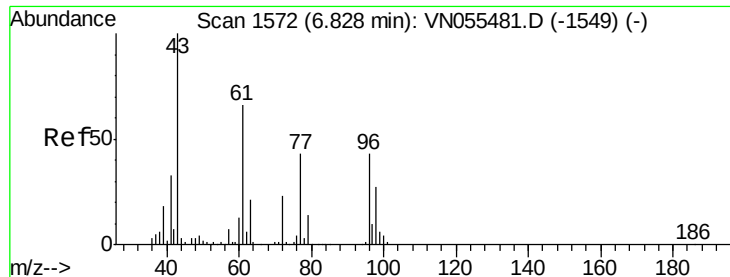
Tot Ion: 84 Resp: 3236
Ion Ratio Lower Upper
84 100
49 126.1 107.0 160.6
51 46.9 33.0 49.4
86 50.0 50.6 76.0#



#24
1,1-Dichloroethane
Concen: 10.693 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Tgt Ion: 63 Resp: 233508
Ion Ratio Lower Upper
63 100
98 6.5 3.0 9.0
100 3.9 1.9 5.7





#27

cis-1,2-Dichloroethene

Concen: 13.939 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

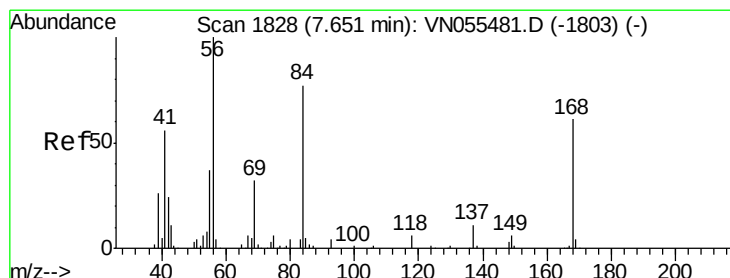
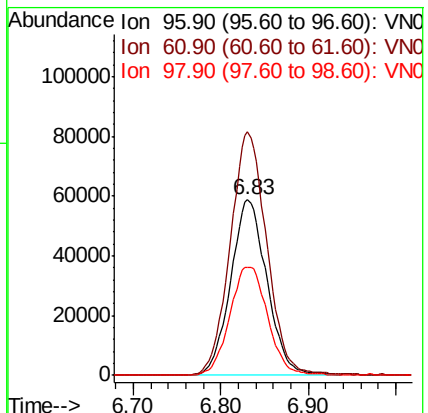
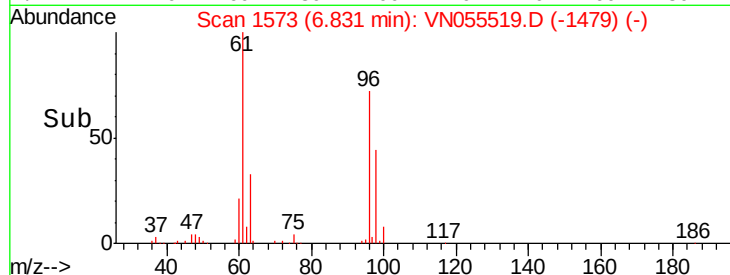
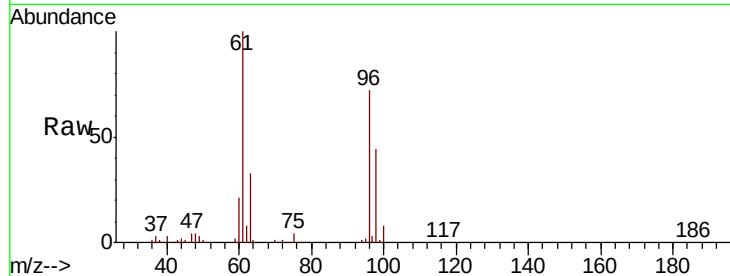
Tot Ion: 96 Resp: 169721

Ion Ratio Lower Upper

96 100

61 138.7 0.0 310.8

98 64.4 0.0 129.4



#31

Cyclohexane

Concen: 0.878 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

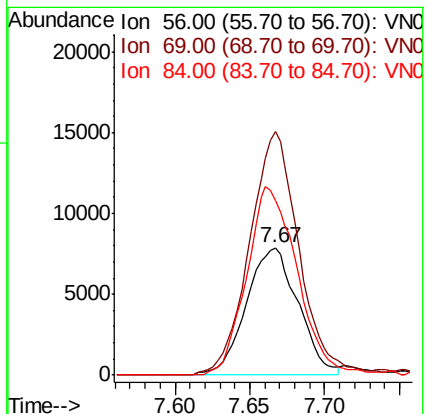
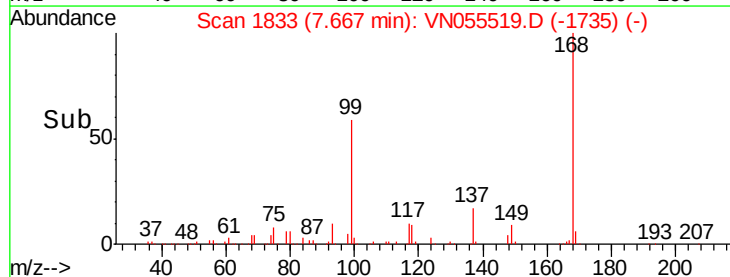
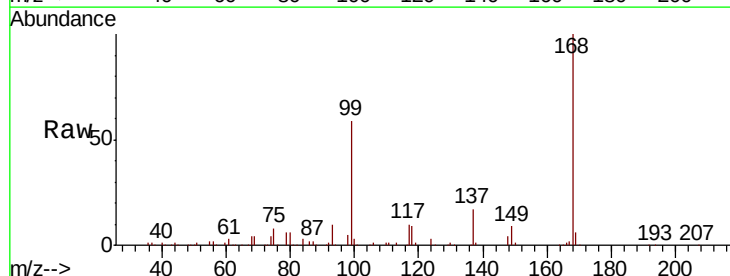
Tgt Ion: 56 Resp: 18969

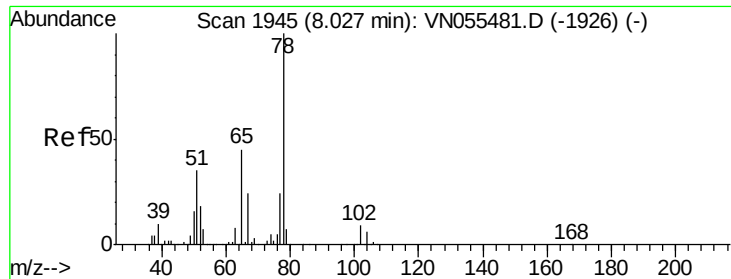
Ion Ratio Lower Upper

56 100

69 191.0 26.0 39.0#

84 136.6 61.9 92.9#

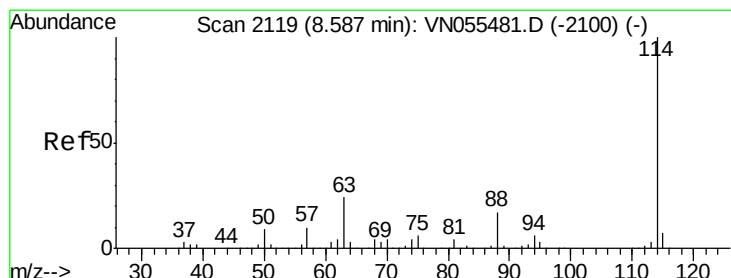
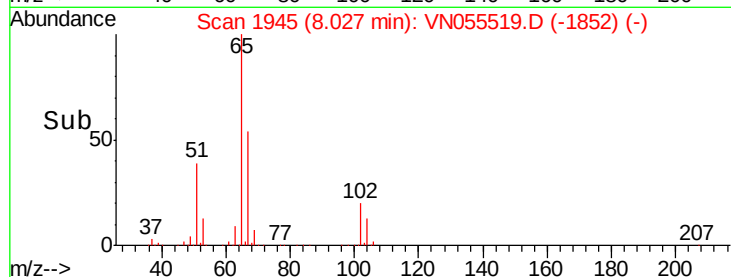
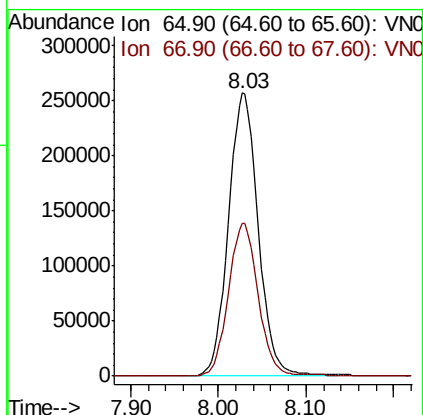
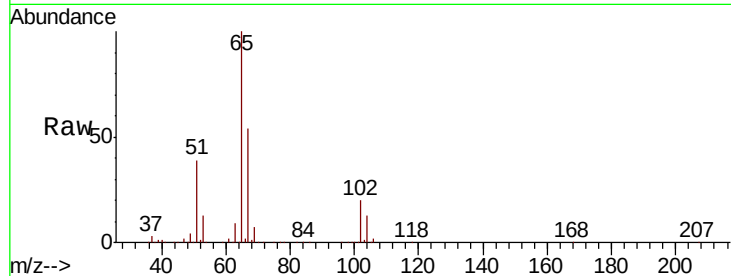




#33
 1,2-Dichloroethane-d4
 Concen: 45.236 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

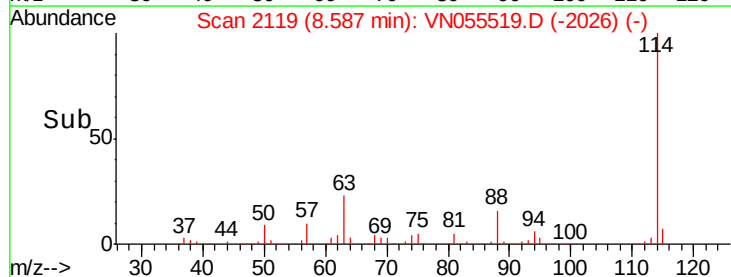
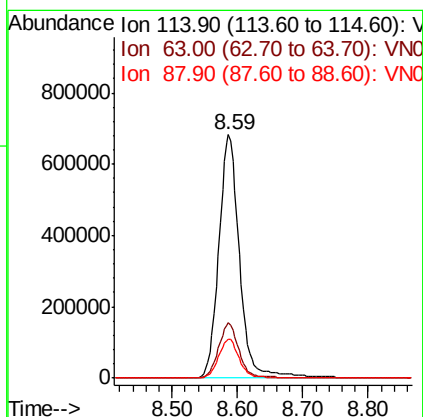
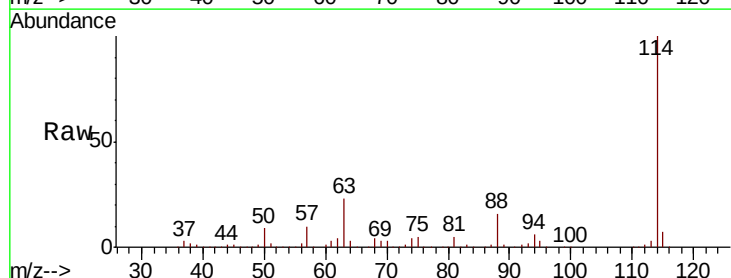
Instrument :
 MSVOA_N
 ClientSampled :

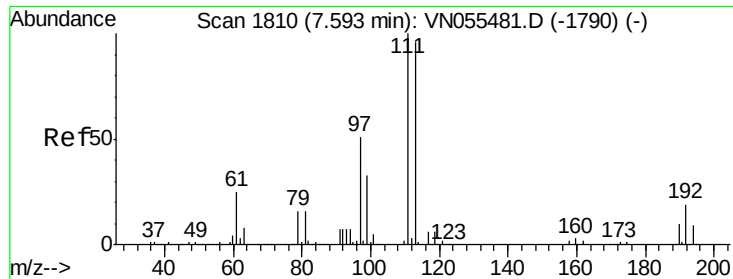
Tot Ion: 65 Resp: 605584
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

Tgt Ion: 114 Resp: 1507290
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 47.4
 88 16.2 0.0 34.0

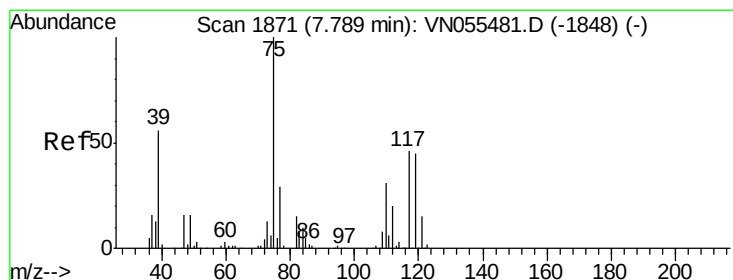
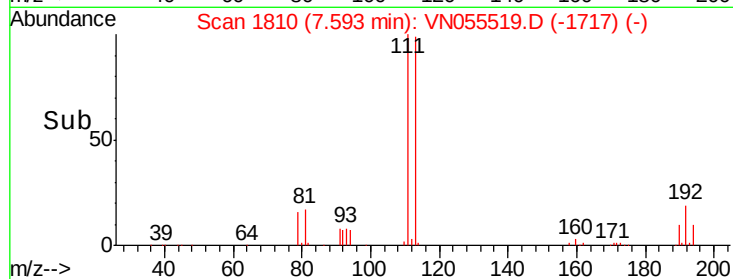
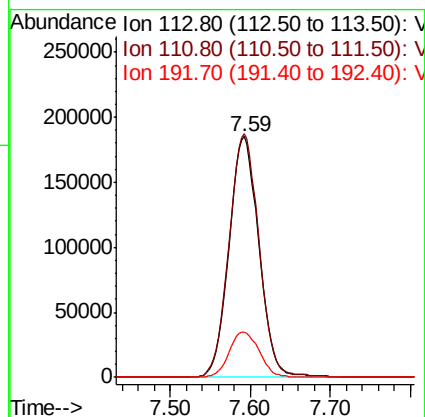
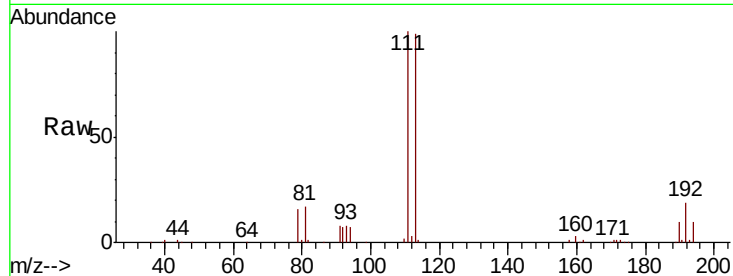




#35
 Dibromofluoromethane
 Concen: 48.173 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

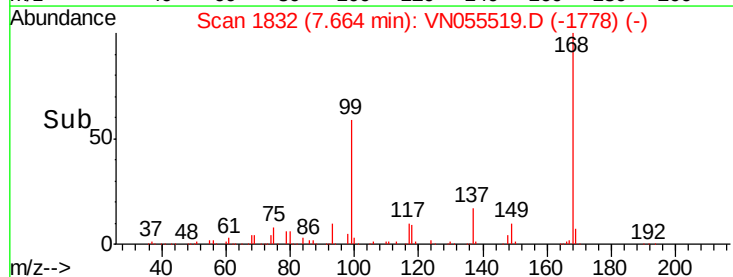
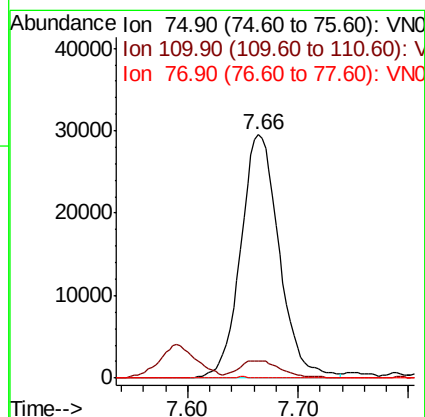
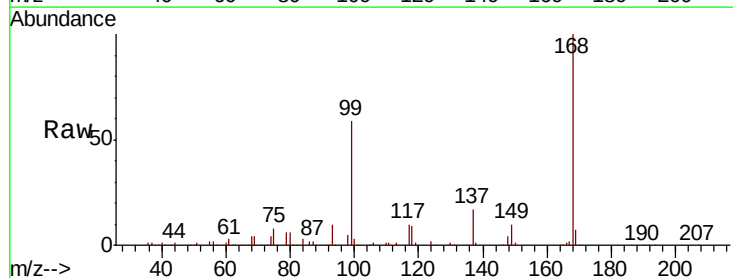
Instrument :
 MSVOA_N
 ClientSampled :

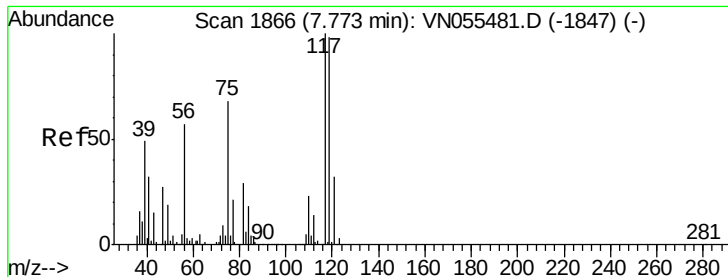
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	19.2	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.814 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	16.1	48.3#
77	0.1	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.931 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

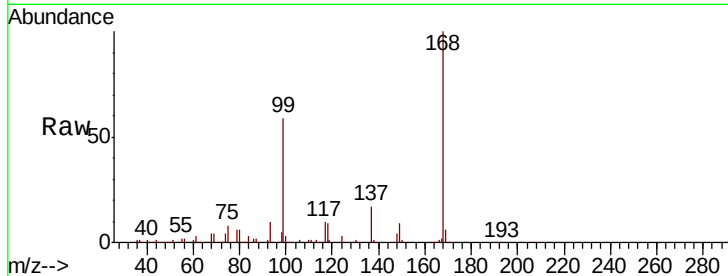
Tot Ion:117 Resp: 86668

Ion Ratio Lower Upper

117 100

119 6.0 77.8 116.6#

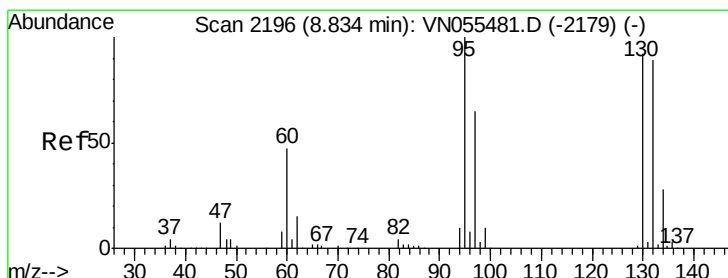
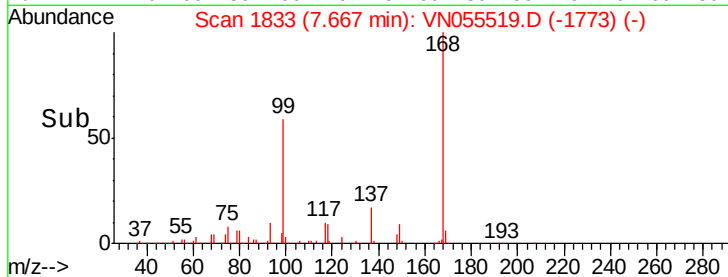
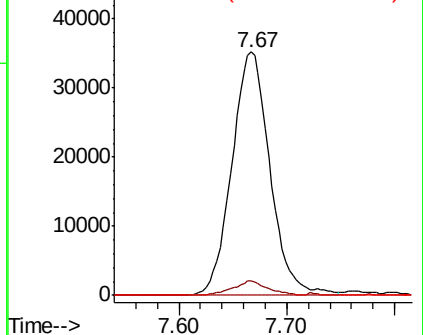
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 6.470 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055519.D

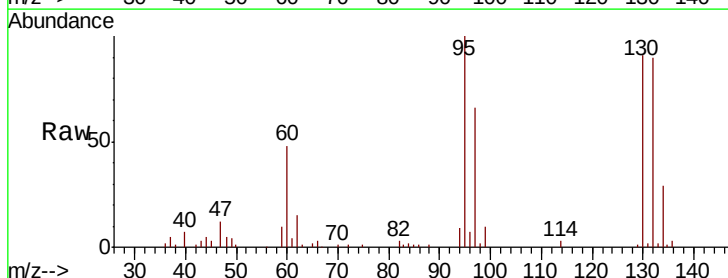
Acq: 10 May 2019 1:14

Tgt Ion:130 Resp: 70948

Ion Ratio Lower Upper

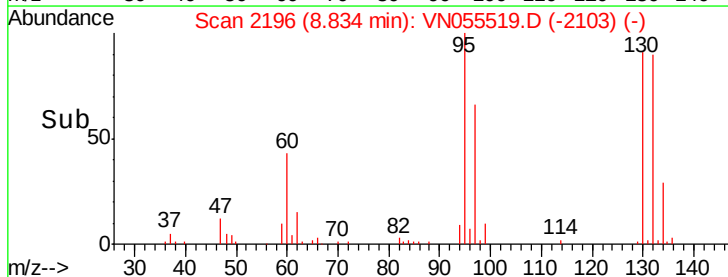
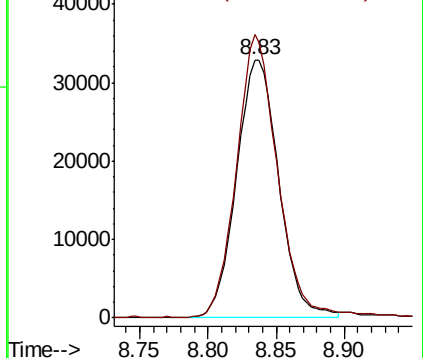
130 100

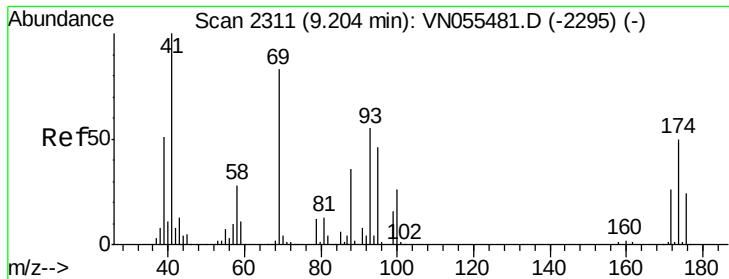
95 109.6 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

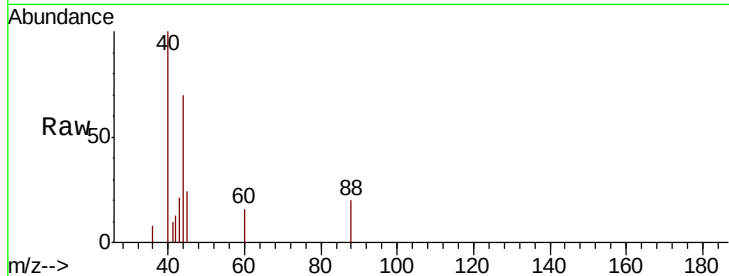




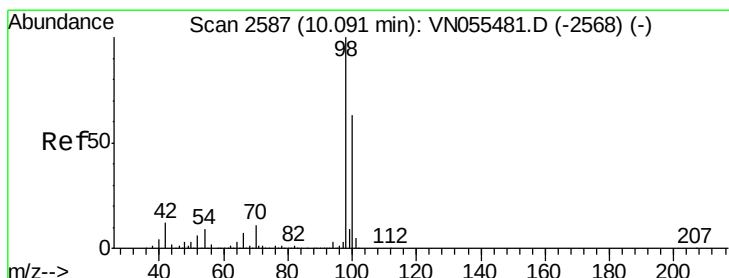
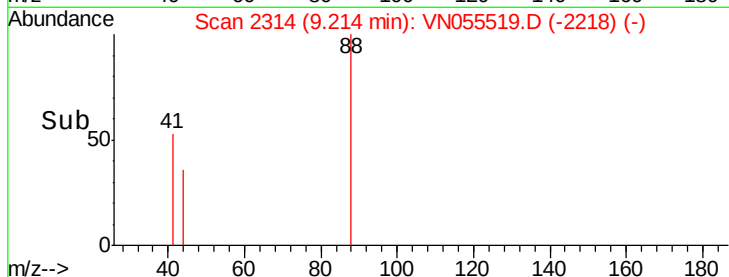
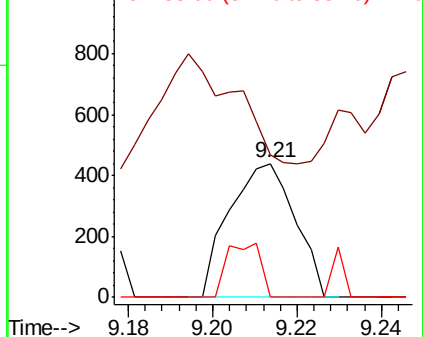
#49
1,4-Dioxane
Concen: 2.051 ug/l
RT: 9.21 min Scan# 2314
Delta R.T. 0.01 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 474
Ion Ratio Lower Upper
88 100
43 135.4 27.8 41.8#
58 20.5 61.8 92.6#

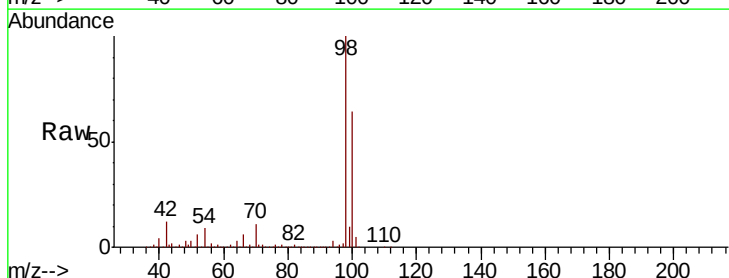


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

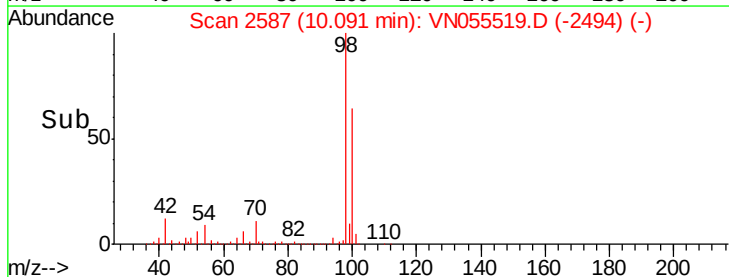
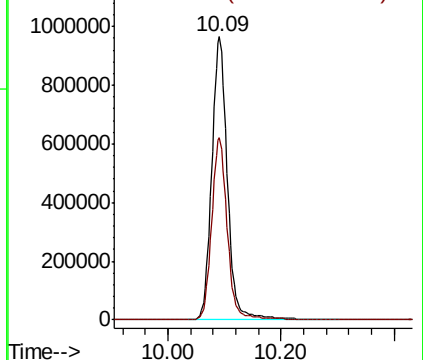


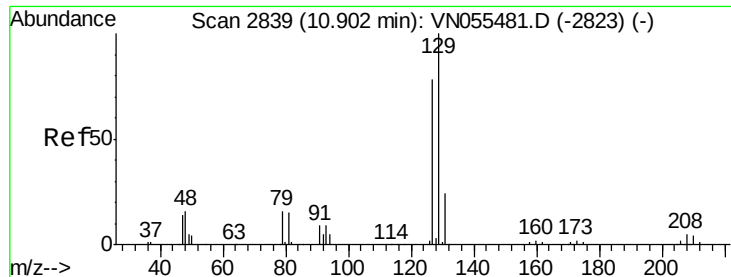
#50
Toluene-d8
Concen: 48.612 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Tgt Ion: 98 Resp: 1841930
Ion Ratio Lower Upper
98 100
100 63.5 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

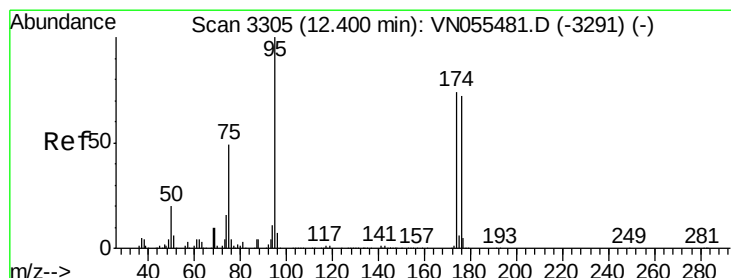
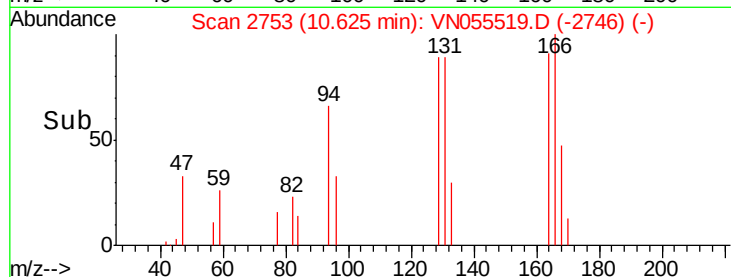
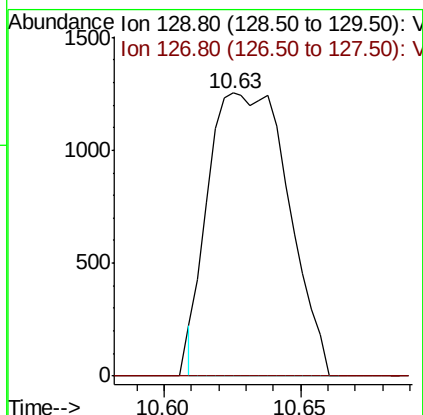
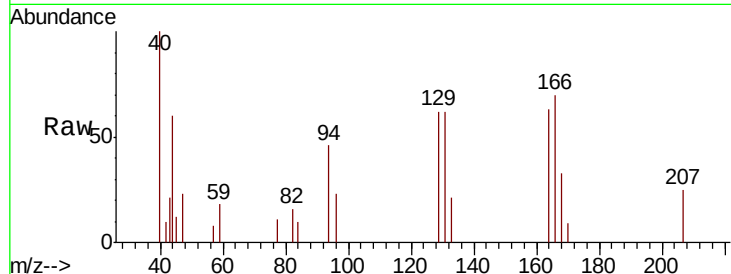




#60
Dibromochloromethane
Concen: 0.262 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.28 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

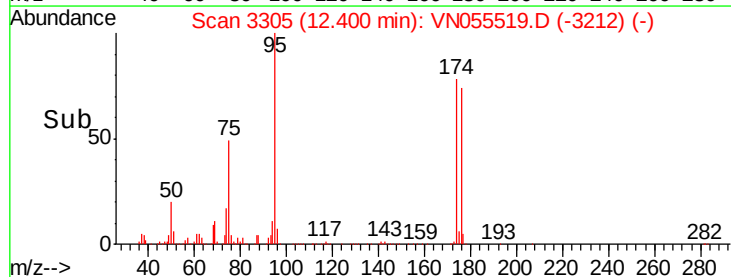
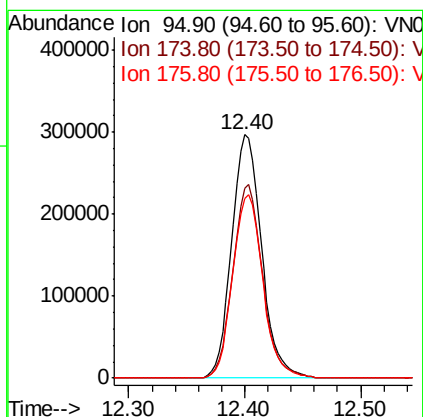
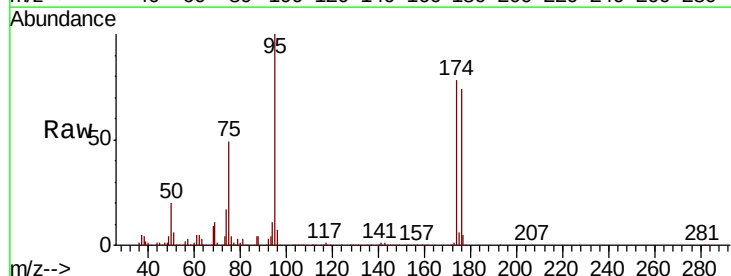
Instrument :
MSVOA_N
ClientSampled :

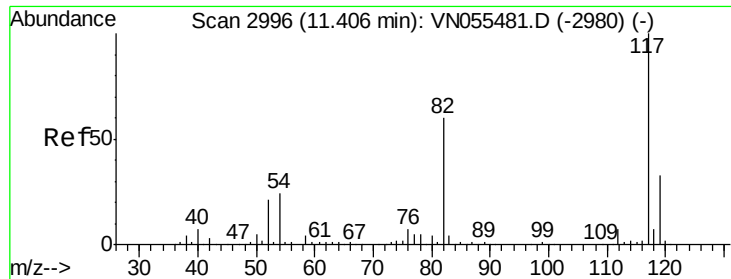
Tot Ion:129 Resp: 2543
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 41.586 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Tgt Ion: 95 Resp: 531311
Ion Ratio Lower Upper
95 100
174 78.8 0.0 152.2
176 75.9 0.0 147.8

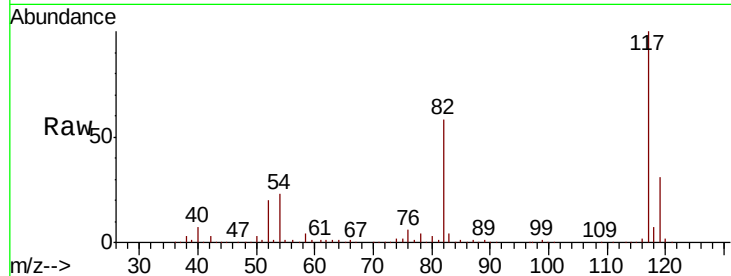




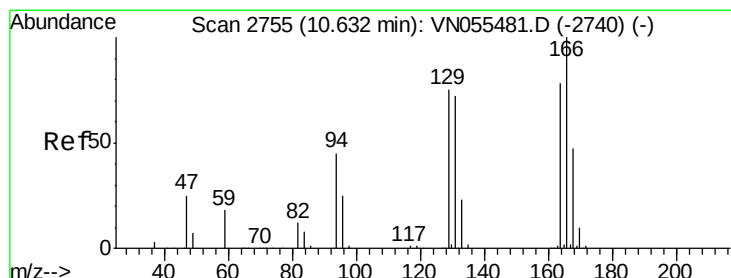
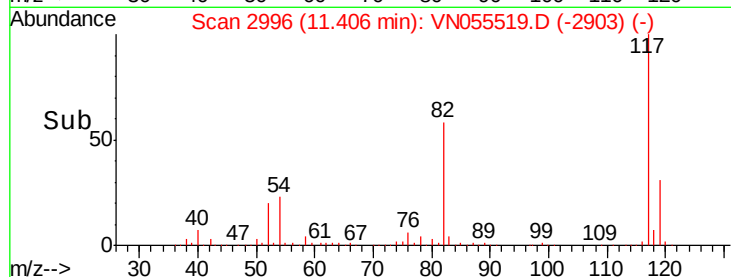
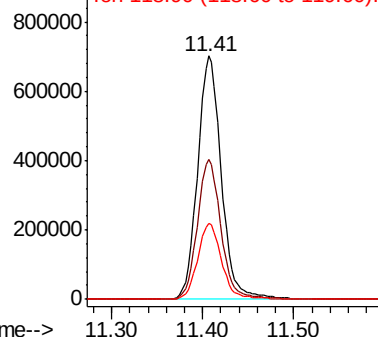
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1269364
Ion Ratio Lower Upper
117 100
82 57.5 48.0 72.0
119 31.4 26.0 39.0

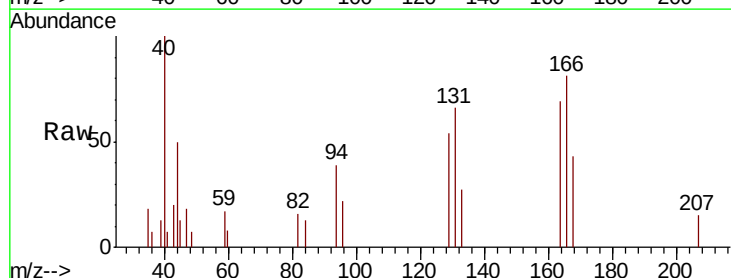


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

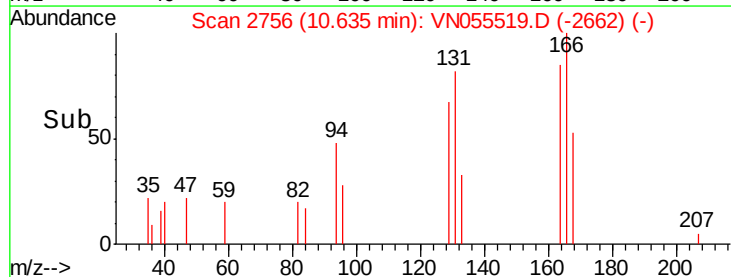
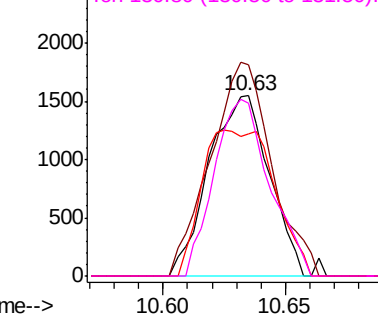


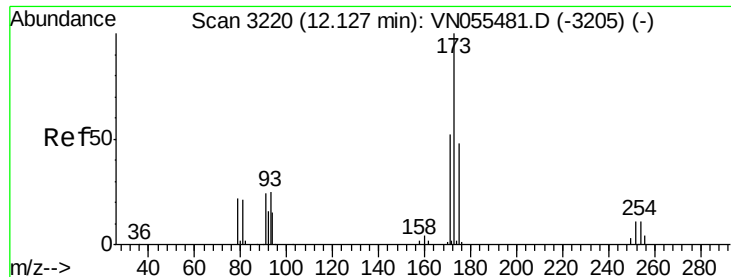
#64
Tetrachloroethene
Concen: 0.256 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN055519.D
Acq: 10 May 2019 1:14

Tgt Ion:164 Resp: 2663
Ion Ratio Lower Upper
164 100
166 117.6 102.6 153.8
129 78.8 77.0 115.6
131 96.2 73.7 110.5



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.616 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

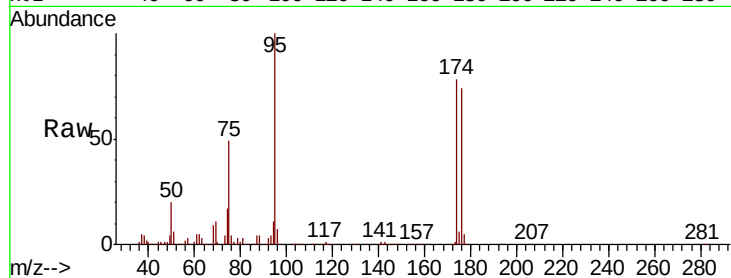
Tot Ion:173 Resp: 3740

Ion Ratio Lower Upper

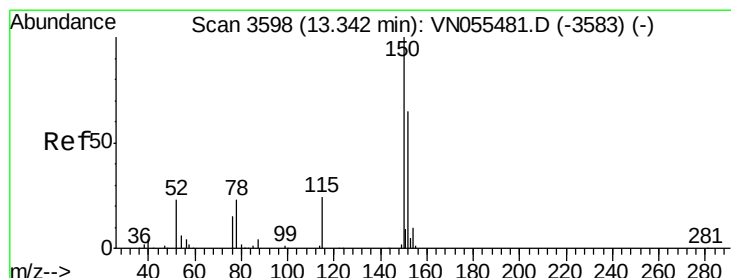
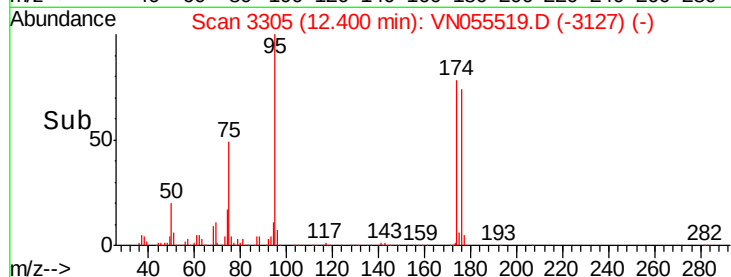
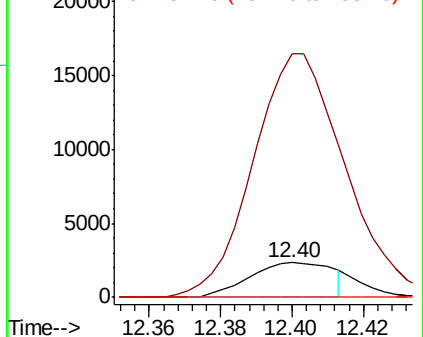
173 100

175 657.3 24.1 72.4#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

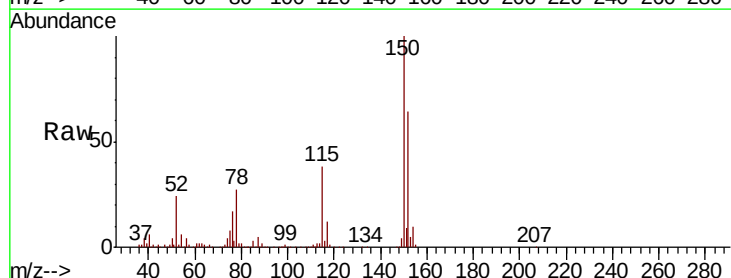
Tgt Ion:152 Resp: 350730

Ion Ratio Lower Upper

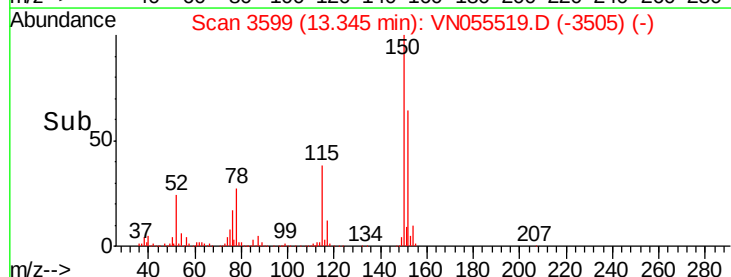
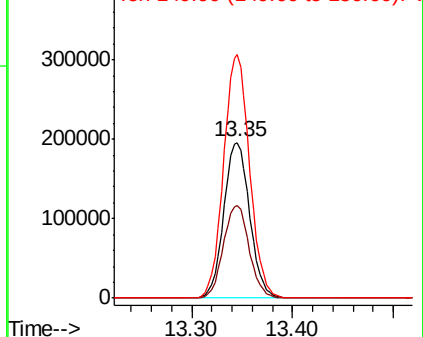
152 100

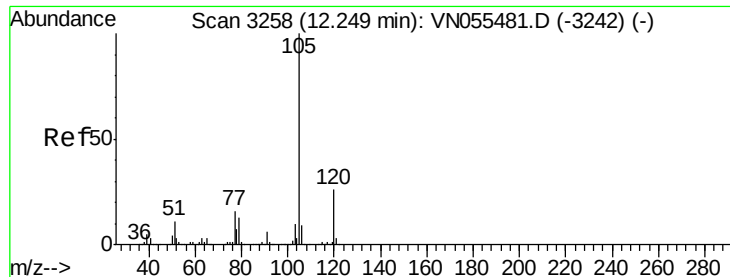
115 59.6 30.1 90.5

150 157.1 0.0 355.0



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

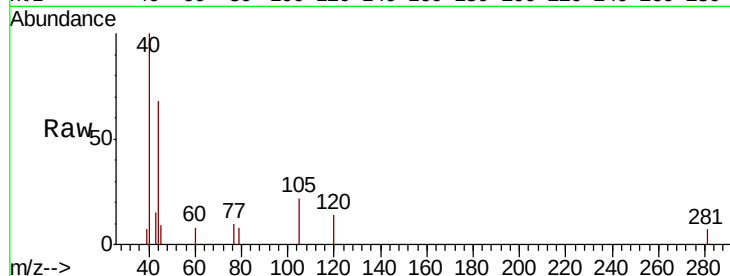
ClientSampled :

Tot Ion: 105.00 Resp: 784

Ion Ratio Lower Upper

105 100

120 25.1 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

500

400

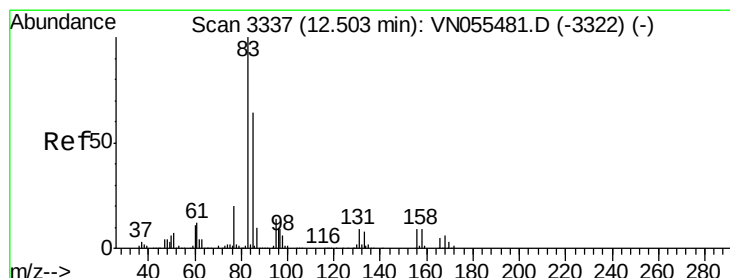
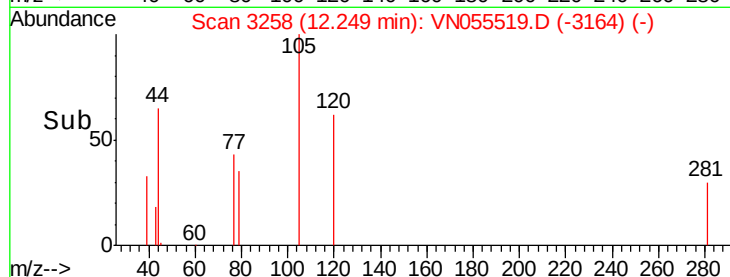
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

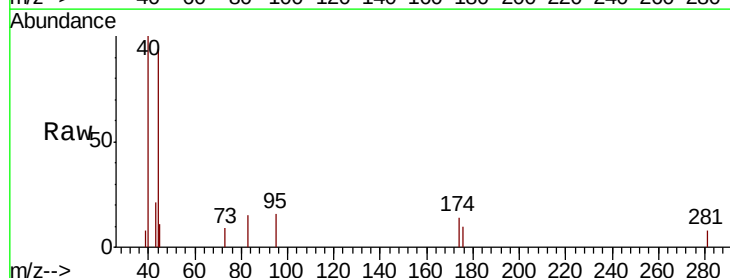
Tgt Ion: 83 Resp: 186

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

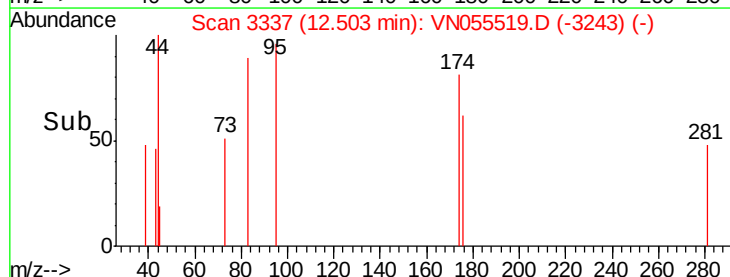
300

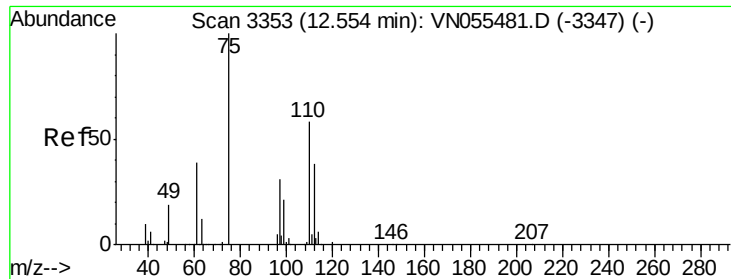
200

100

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 27.268 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

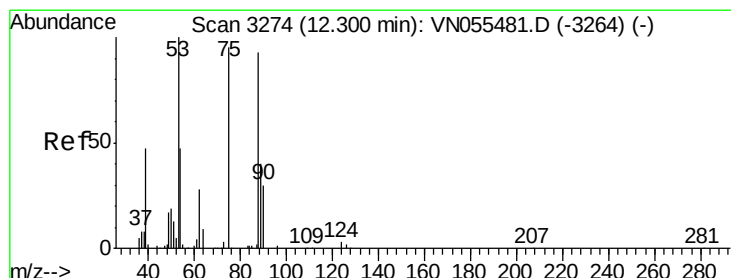
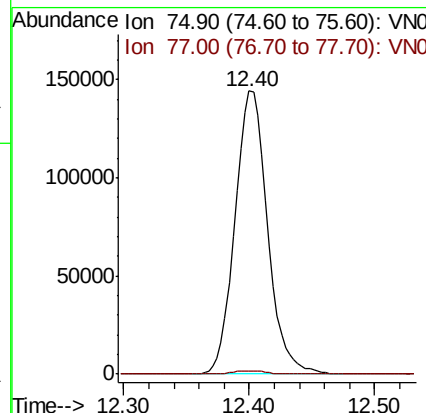
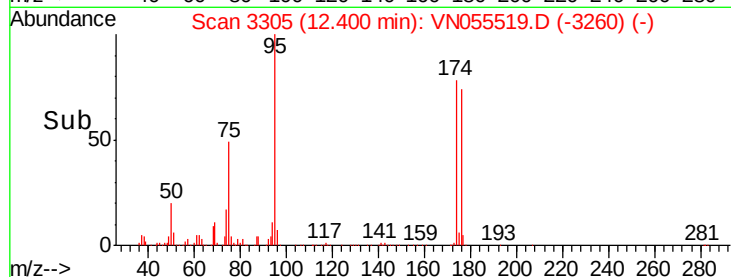
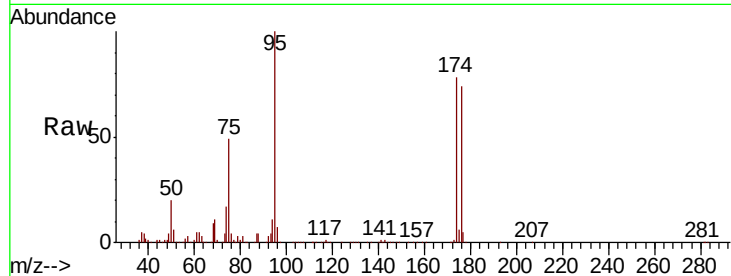
ClientSampleId :

Tot Ion: 75 Resp: 260354

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 100.614 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

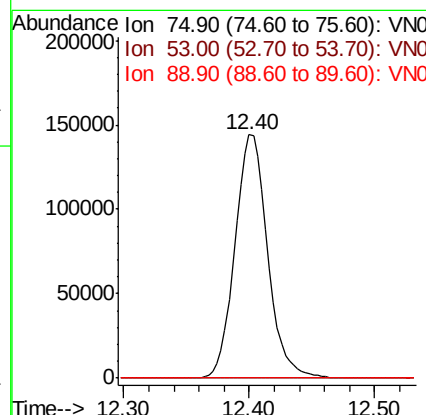
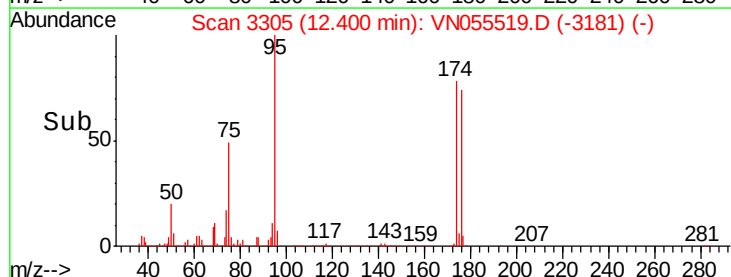
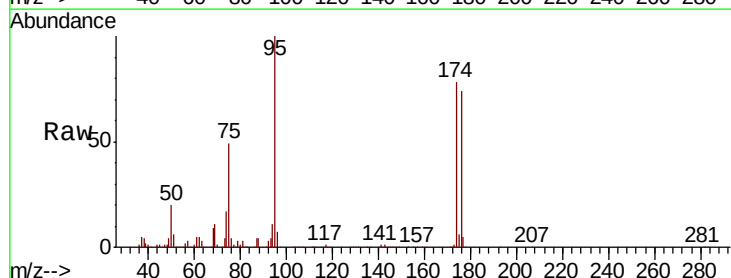
Tgt Ion: 75 Resp: 260354

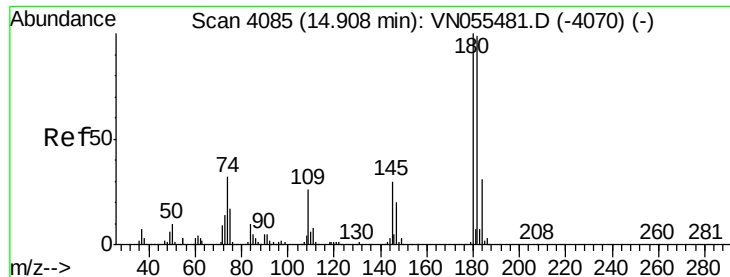
Ion Ratio Lower Upper

75 100

53 0.1 86.5 129.7#

89 0.0 35.7 53.5#

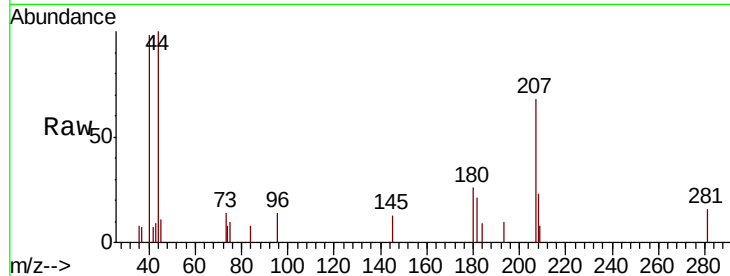




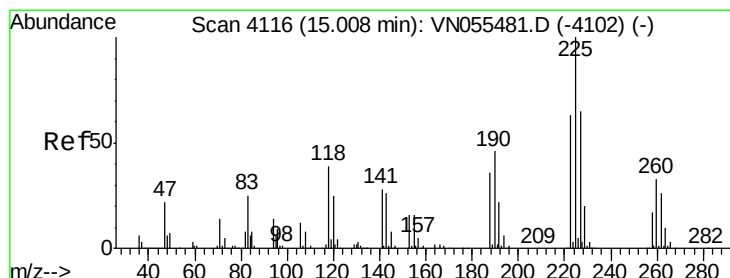
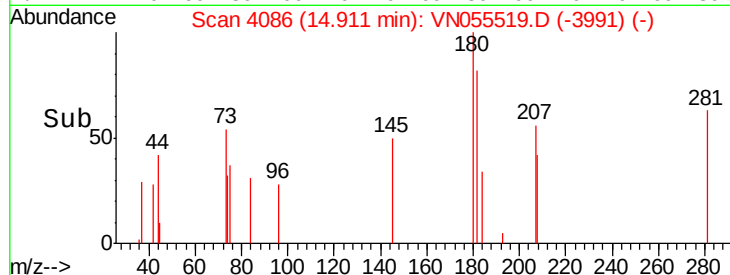
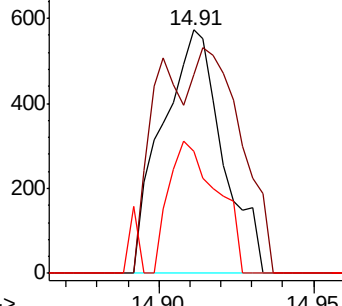
#93
 1,2,4-Trichlorobenzene
 Concen: 3.346 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 780
 Ion Ratio Lower Upper
 180 100
 182 76.7 48.7 146.1
 145 43.8 15.3 45.9

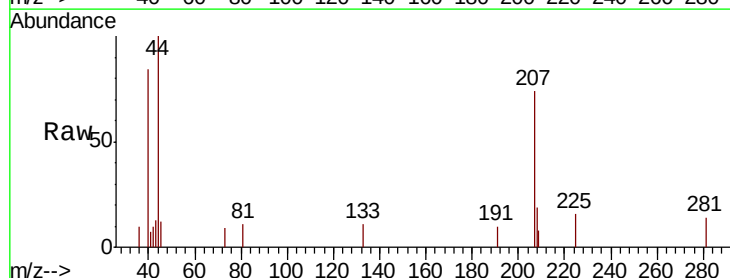


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

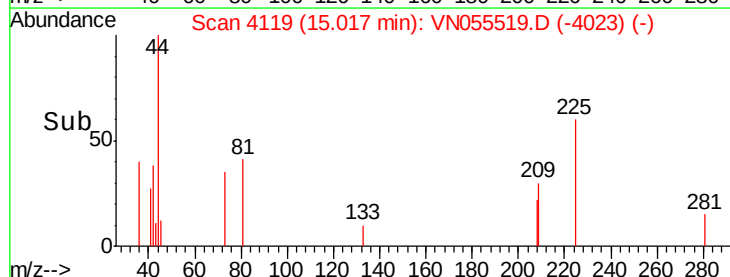
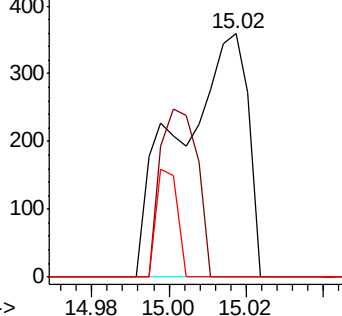


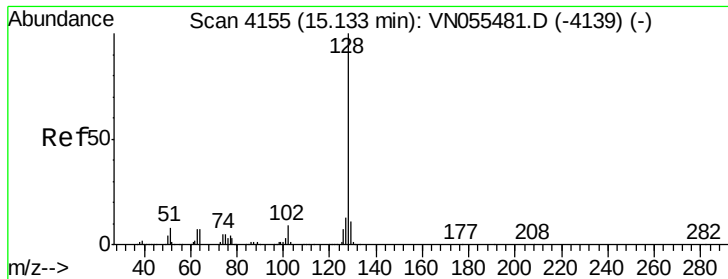
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.01 min
 Lab File: VN055519.D
 Acq: 10 May 2019 1:14

Tgt Ion:225 Resp: 441
 Ion Ratio Lower Upper
 225 100
 223 37.2 31.4 94.3
 227 13.6 32.0 96.0#



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: 3.174 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

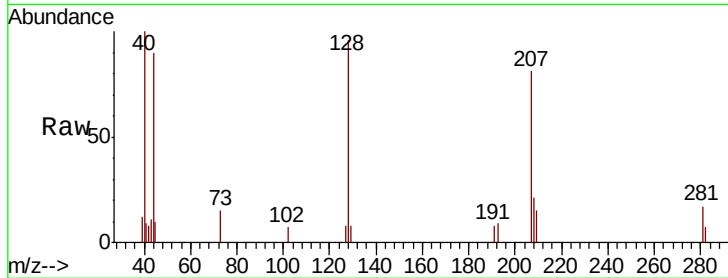
Tot Ion:128 Resp: 3677

Ion Ratio Lower Upper

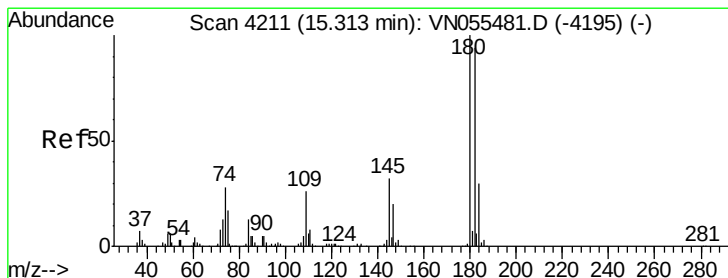
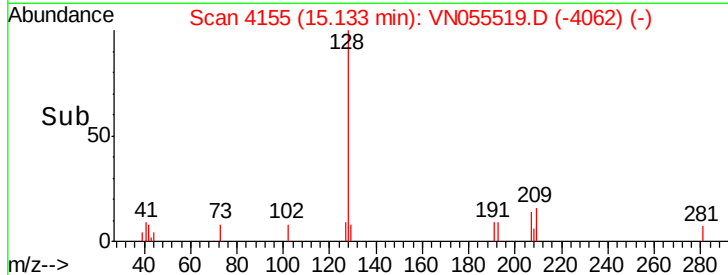
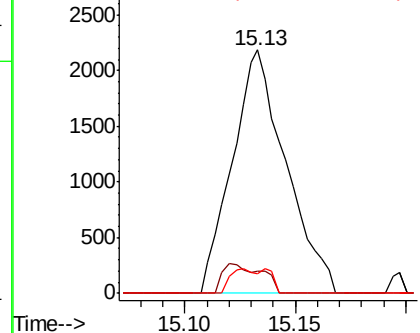
128 100

127 8.8 10.0 15.0#

129 7.2 8.8 13.2#



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: 2.603 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055519.D

Acq: 10 May 2019 1:14

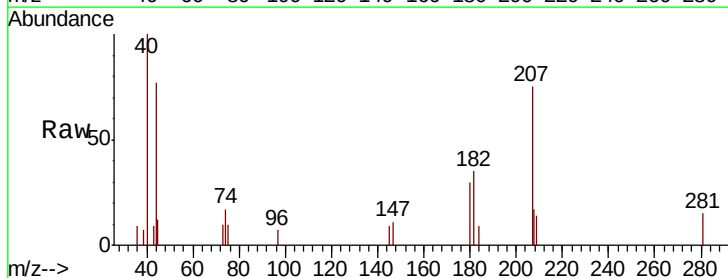
Tgt Ion:180 Resp: 1068

Ion Ratio Lower Upper

180 100

182 138.5 47.1 141.3

145 13.9 15.8 47.4#



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

