

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056203.D
 Acq On : 11 Jun 2019 6:26
 Operator : JC/SP
 Sample : K3255-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 09:03:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	298338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	450579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	447819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138948	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	161115	54.39	ug/l	0.00
Spiked Amount			Recovery	=	108.78%	
35) Dibromofluoromethane	7.59	113	148985	53.89	ug/l	0.00
Spiked Amount			Recovery	=	107.78%	
50) Toluene-d8	10.09	98	589002	55.37	ug/l	0.00
Spiked Amount			Recovery	=	110.74%	
62) 4-Bromofluorobenzene	12.40	95	186526	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	

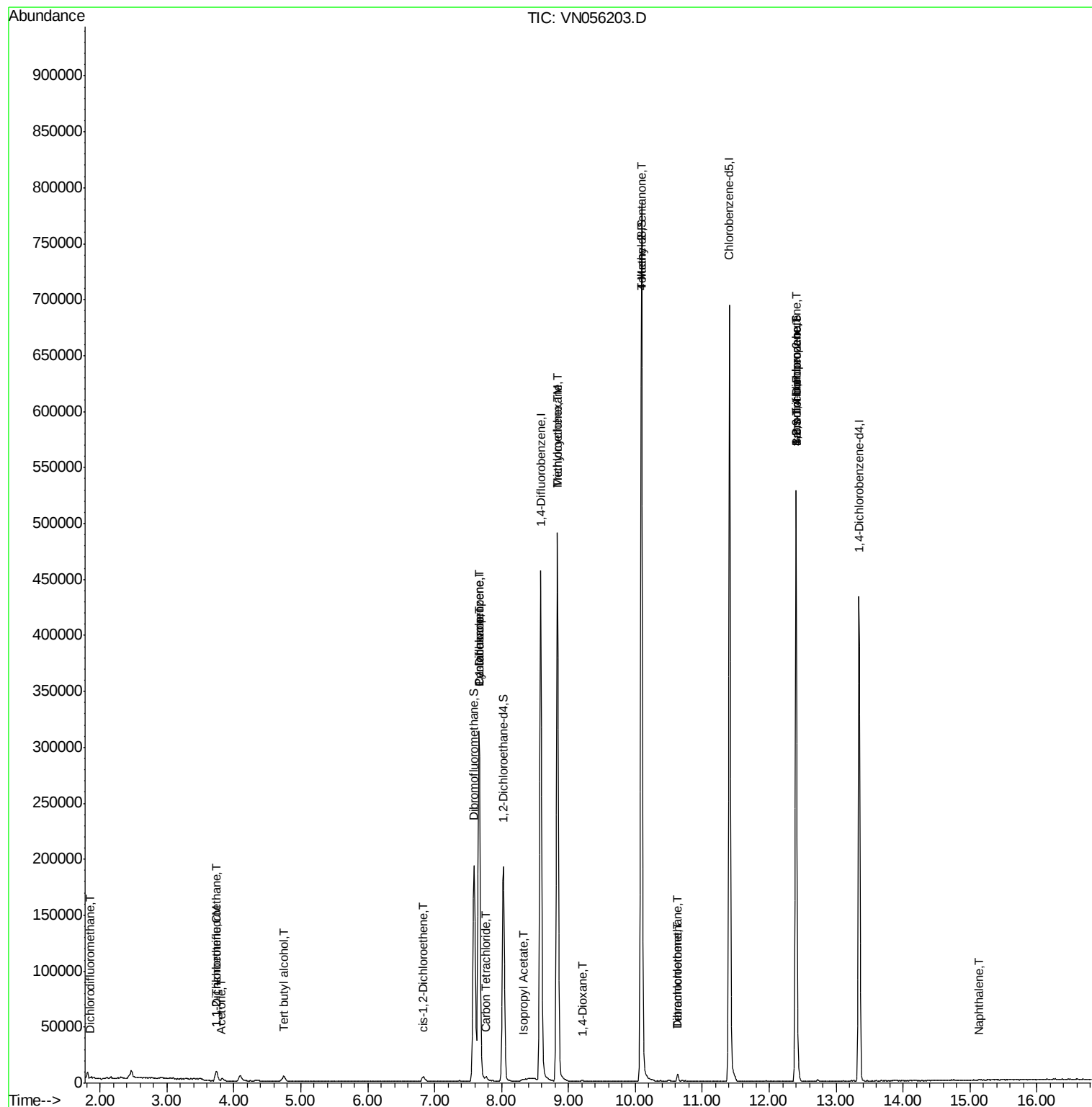
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	390	0.473	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.75	101	5346	2.125	ug/l	95
11) Tert butyl alcohol	4.74	59	4246	8.237	ug/l #	74
12) 1,1-Dichloroethene	3.73	96	832	0.332	ug/l #	67
16) Acetone	3.82	43	2119	1.496	ug/l #	82
27) cis-1,2-Dichloroethene	6.83	96	2546	0.807	ug/l	77
31) Cyclohexane	7.66	56	4333	0.922	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17546	4.529	ug/l #	47
38) Carbon Tetrachloride	7.77	117	2307	0.646	ug/l	89
39) Methylcyclohexane	8.83	83	2152	0.446	ug/l #	1
43) Isopropyl Acetate	8.32	43	1753	0.314	ug/l #	53
44) Trichloroethene	8.83	130	202656	59.934	ug/l	98
49) 1,4-Dioxane	9.20	88	317	5.373	ug/l #	70
51) 4-Methyl-2-Pentanone	10.09	43	2195	0.628	ug/l #	1
60) Dibromochloromethane	10.63	129	1297	2.837	ug/l #	11
64) Tetrachloroethene	10.63	164	1797	0.464	ug/l	93
71) Bromoform	12.40	173	947	3.089	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	84965	33.232	ug/l #	100
79) 2-Chlorotoluene	12.40	91	465	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	84965	110.670	ug/l #	15
95) Naphthalene	15.14	128	534	3.925	ug/l #	69

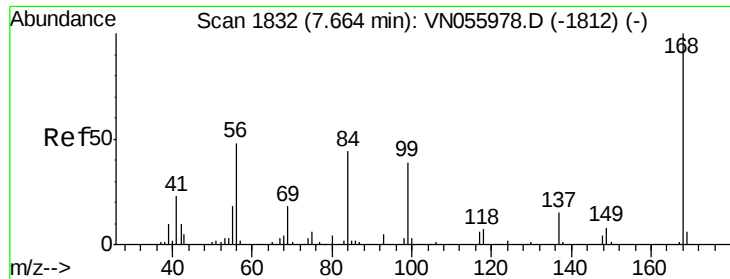
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

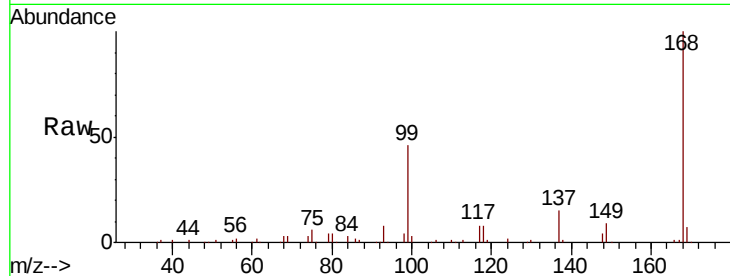
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 298338

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

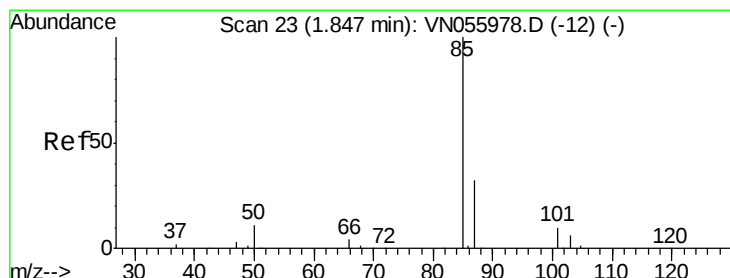
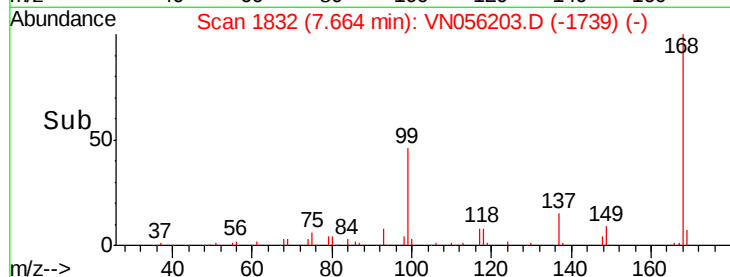
100000

50000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.473 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056203.D

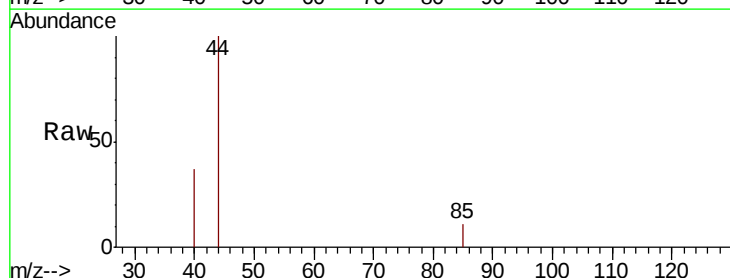
Acq: 11 Jun 2019 6:26

Tgt Ion: 85 Resp: 390

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VN055978.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055978.D (-12) (-)

1.85

400

300

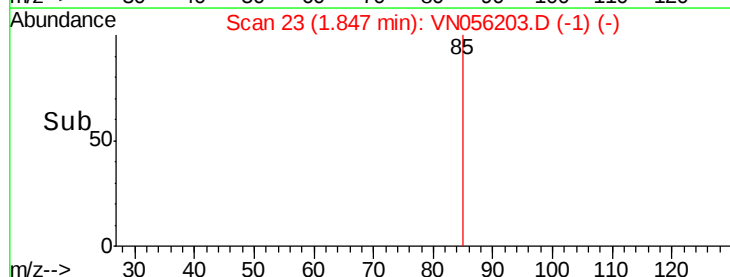
200

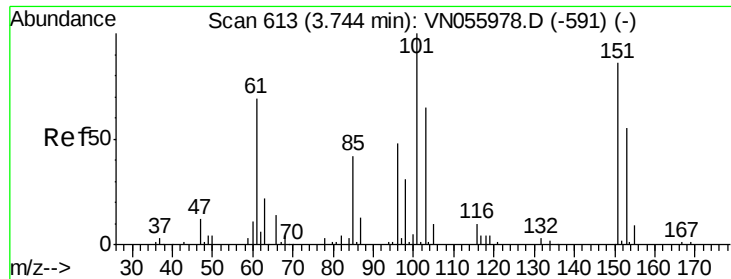
100

0

Time-->

1.82 1.84 1.86





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.125 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampleId :

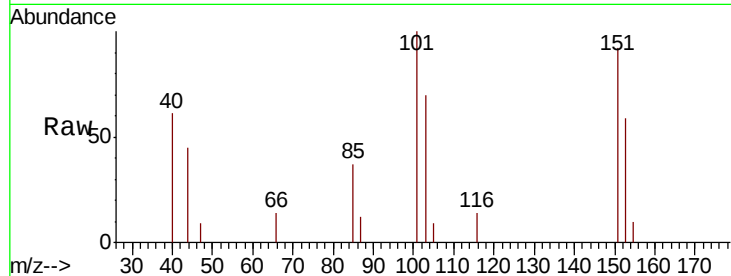
Tot Ion:101 Resp: 5346

Ion Ratio Lower Upper

101 100

85 39.2 33.4 50.2

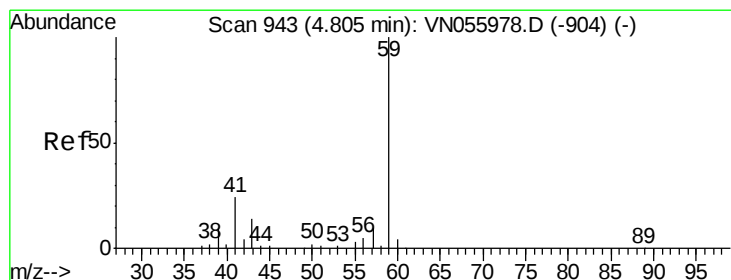
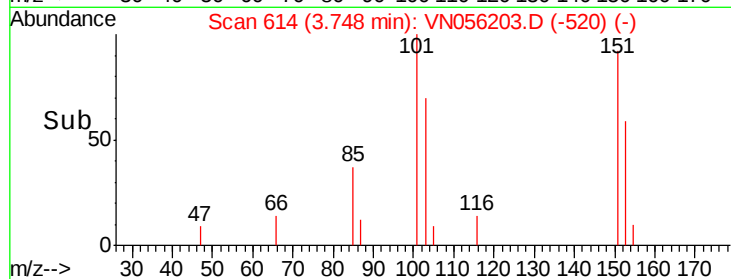
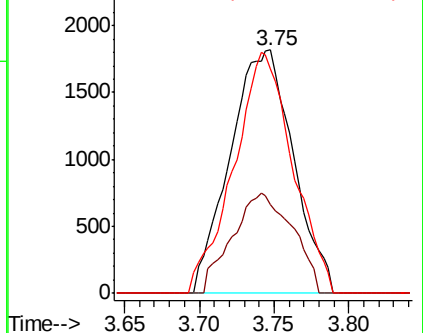
151 92.3 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 8.237 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056203.D

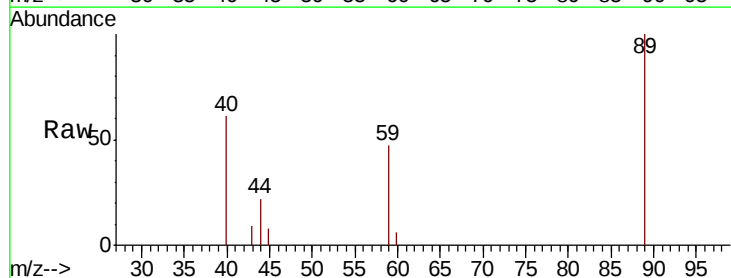
Acq: 11 Jun 2019 6:26

Tgt Ion: 59 Resp: 4246

Ion Ratio Lower Upper

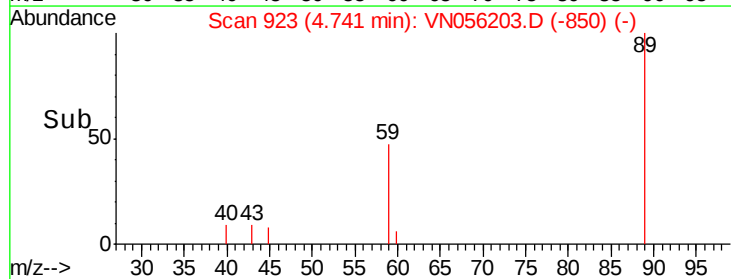
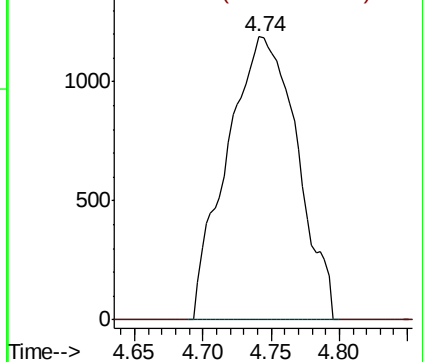
59 100

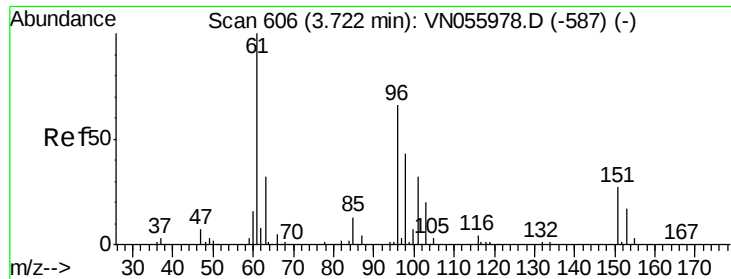
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#12

1,1-Dichloroethene

Concen: 0.332 ug/l

RT: 3.73 min Scan# 607

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampled :

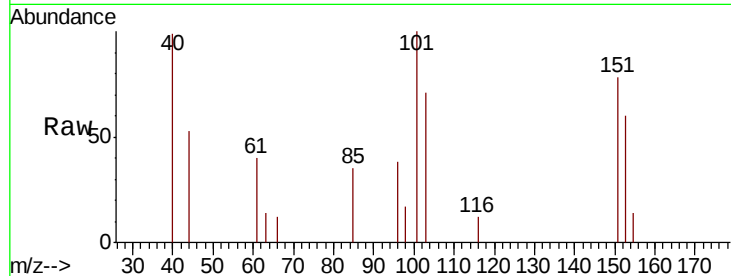
Tot Ion: 96 Resp: 832

Ion Ratio Lower Upper

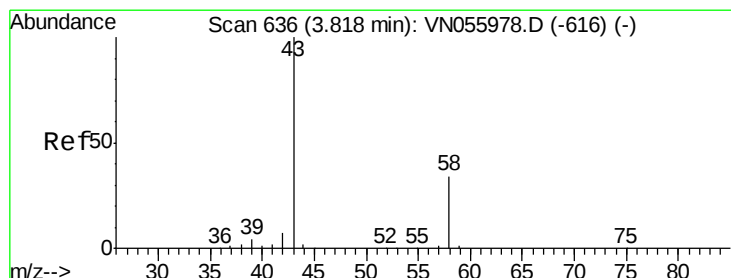
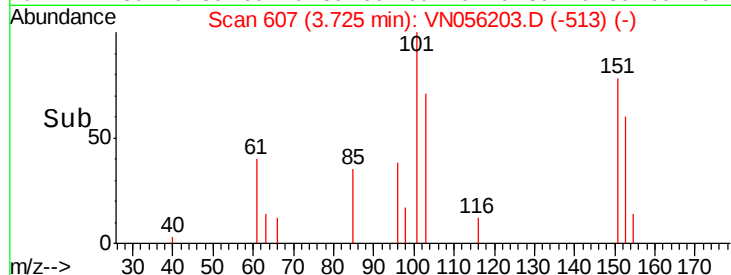
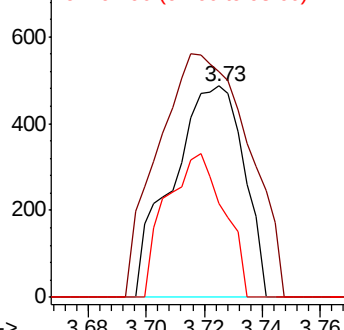
96 100

61 106.6 123.2 184.8#

98 44.1 50.4 75.6#



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#16

Acetone

Concen: 1.496 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056203.D

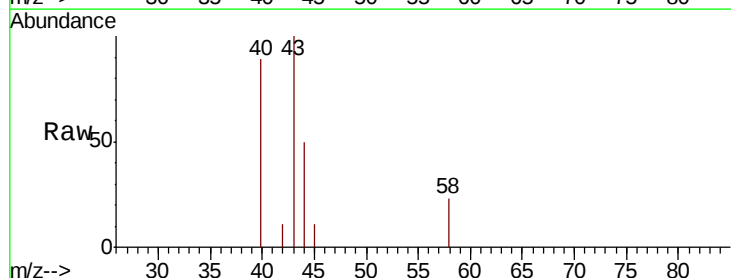
Acq: 11 Jun 2019 6:26

Tgt Ion: 43 Resp: 2119

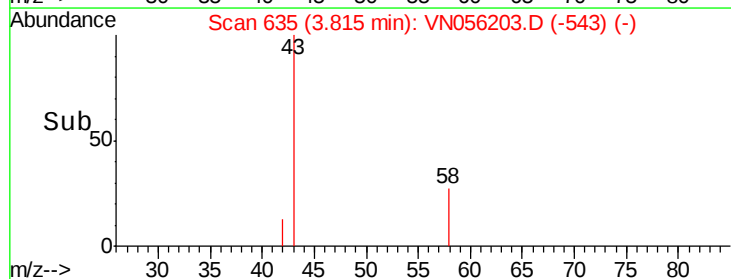
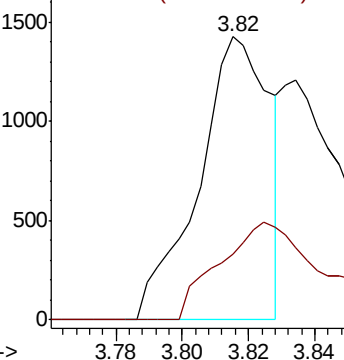
Ion Ratio Lower Upper

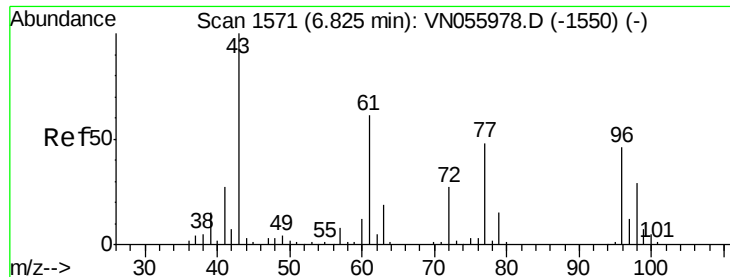
43 100

58 23.1 26.6 39.8#



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





#27

cis-1,2-Dichloroethene

Concen: 0.807 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampled :

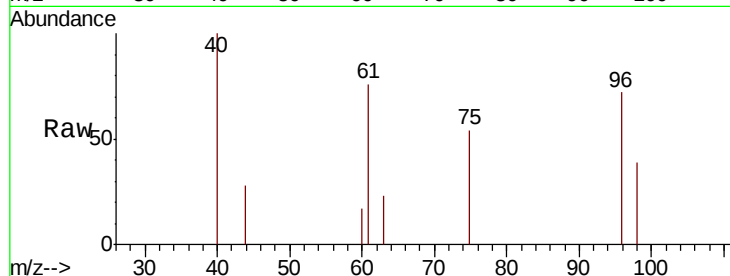
Tot Ion: 96 Resp: 2546

Ion Ratio Lower Upper

96 100

61 118.3 0.0 275.8

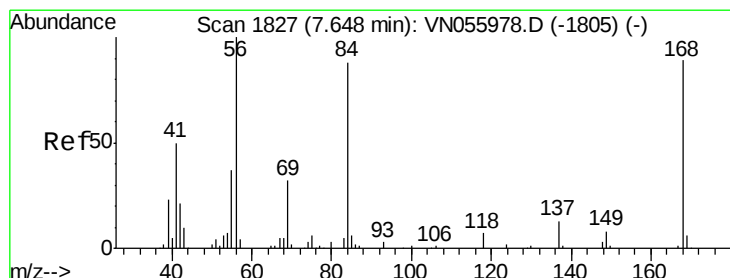
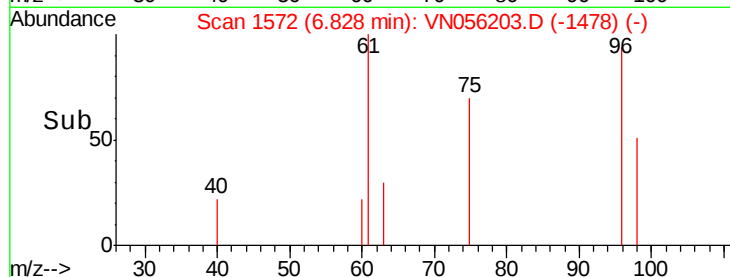
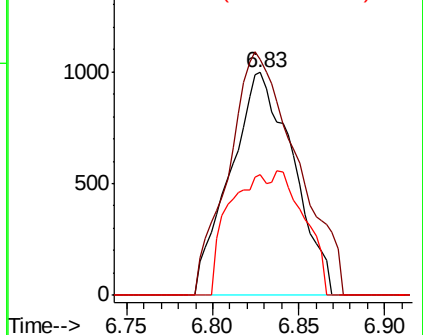
98 33.6 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.922 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

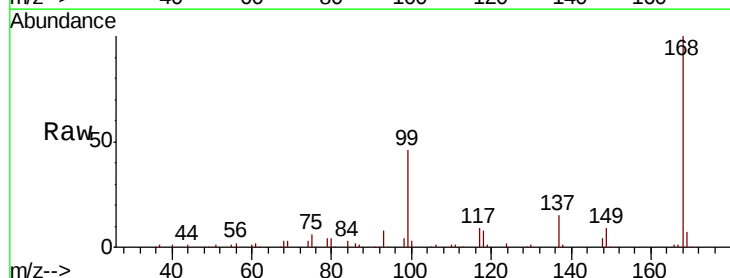
Tgt Ion: 56 Resp: 4333

Ion Ratio Lower Upper

56 100

69 167.0 25.6 38.4#

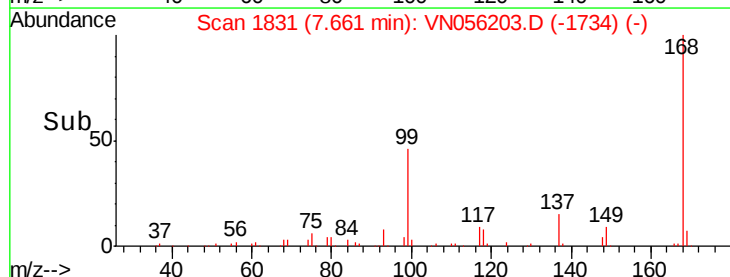
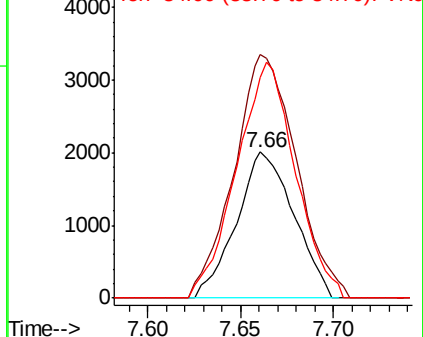
84 151.2 67.4 101.0#

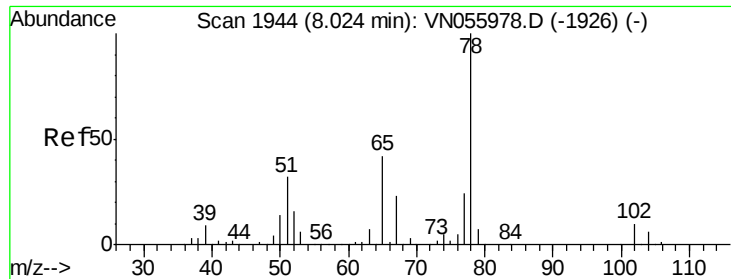


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

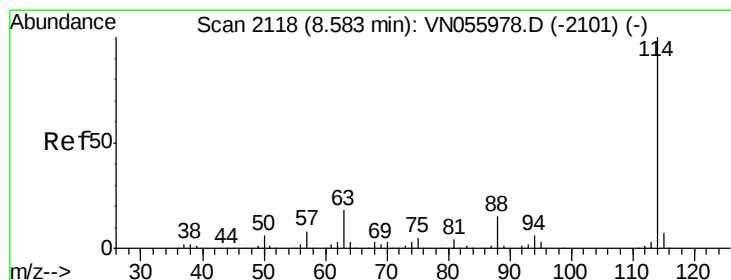
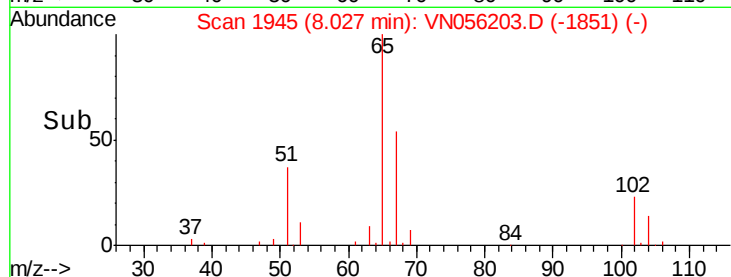
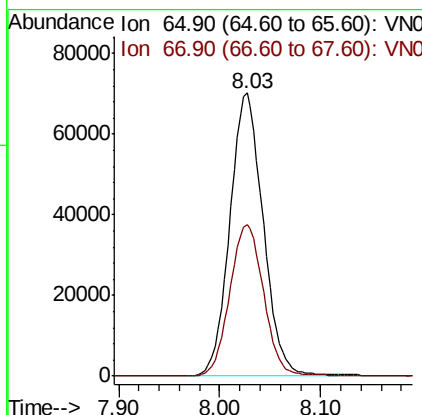
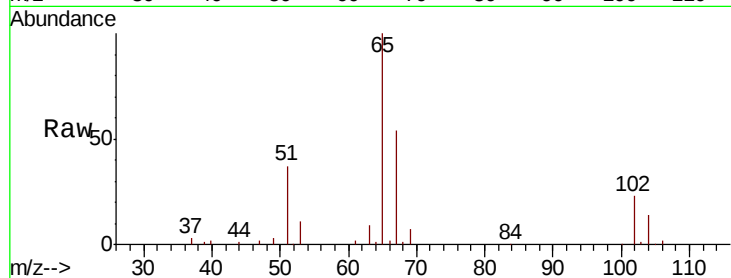




#33
 1,2-Dichloroethane-d4
 Concen: 54.390 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056203.D
 Acq: 11 Jun 2019 6:26

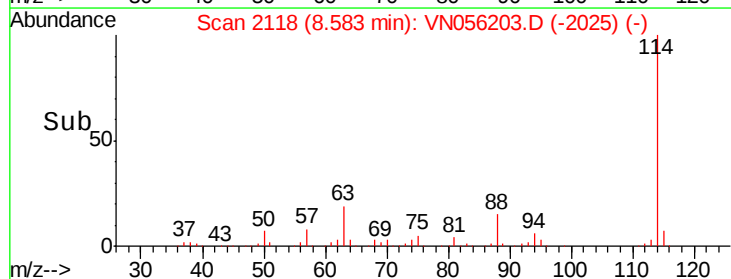
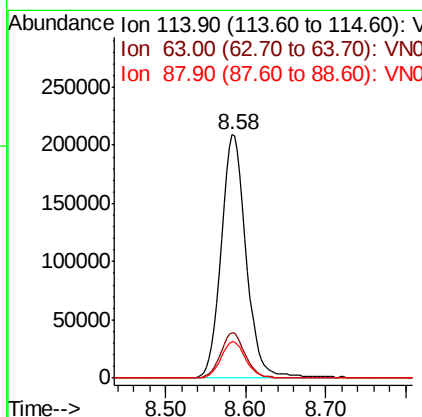
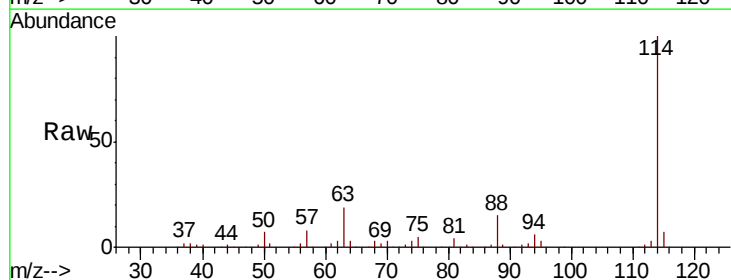
Instrument :
 MSVOA_N
 ClientSampleId :

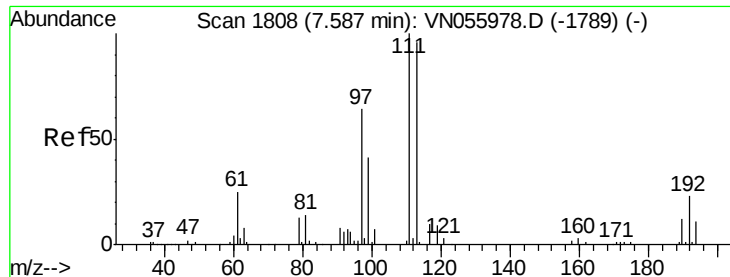
Tot Ion: 65 Resp: 161115
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056203.D
 Acq: 11 Jun 2019 6:26

Tgt Ion: 114 Resp: 450579
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.0 0.0 31.0

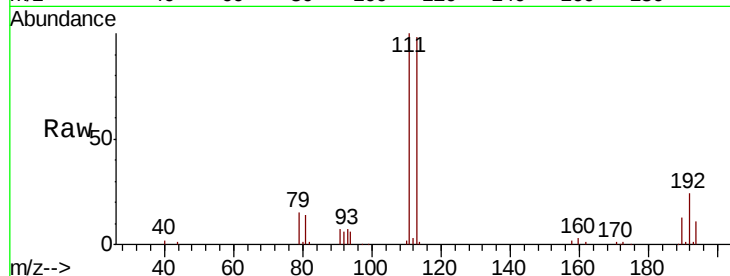




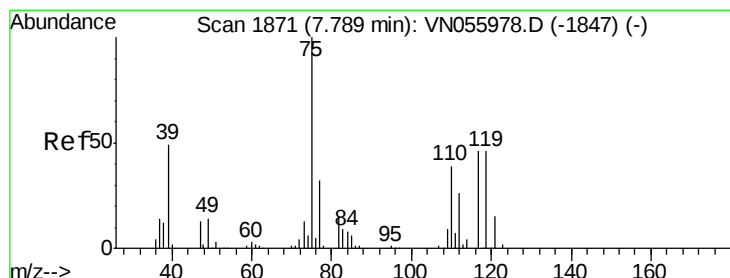
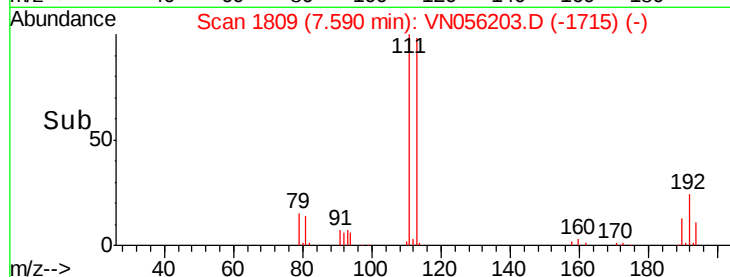
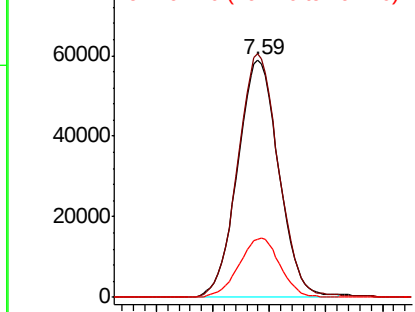
#35
Dibromofluoromethane
Concen: 53.893 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.9	122.9
192	24.9	19.5	29.3

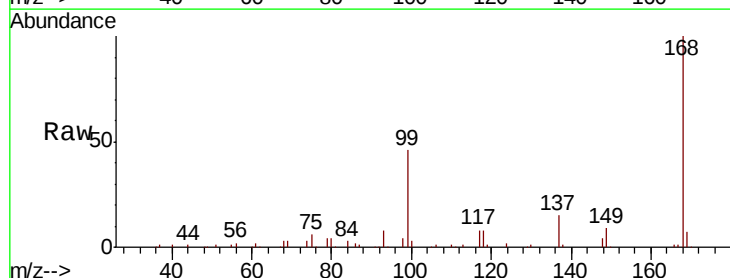


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

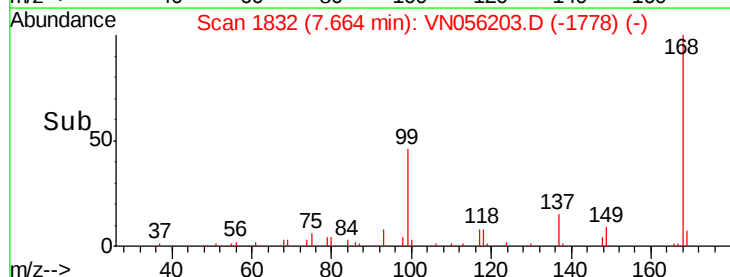
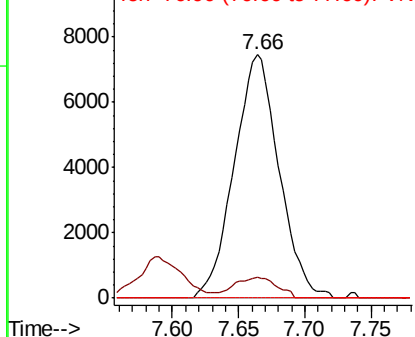


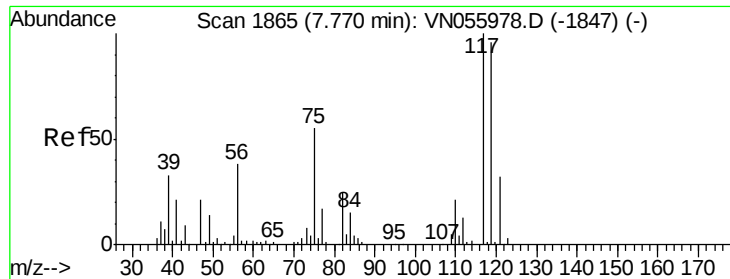
#36
1,1-Dichloropropene
Concen: 4.529 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	19.0	57.0#
77	0.0	25.1	37.7#



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

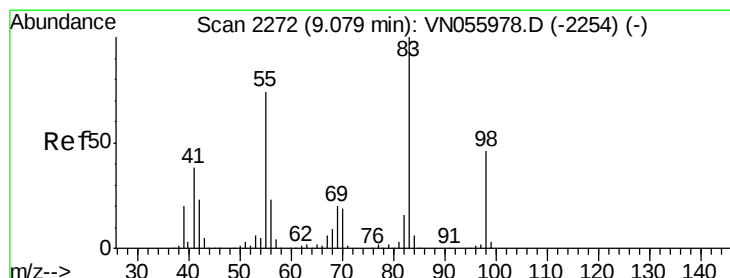
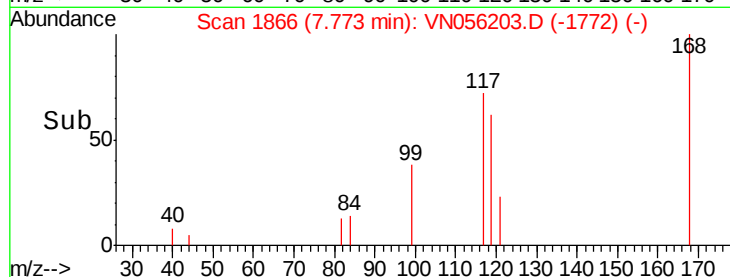
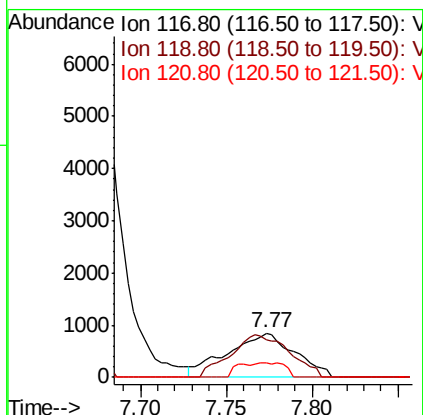
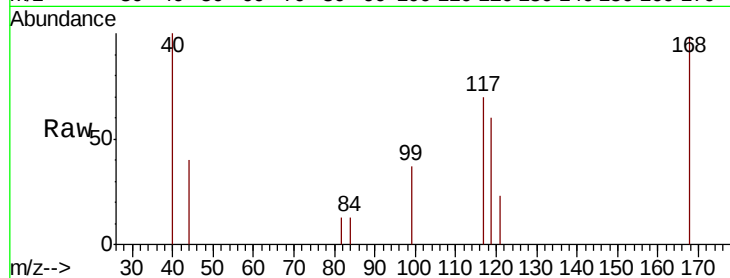




#38
Carbon Tetrachloride
Concen: 0.646 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

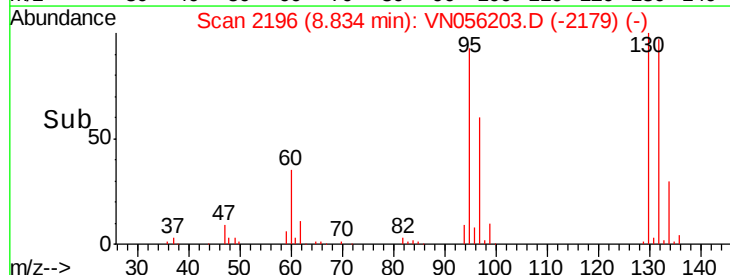
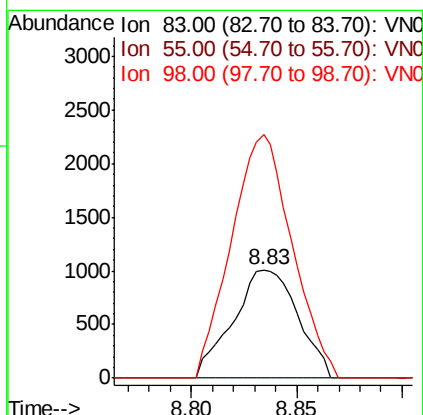
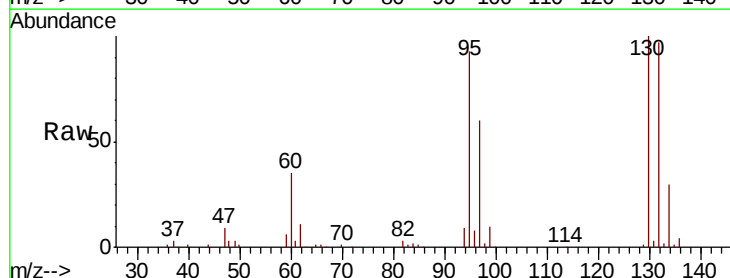
Instrument :
MSVOA_N
ClientSampled :

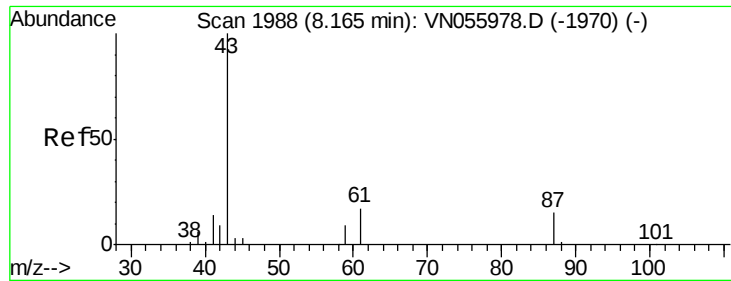
Tot Ion:117 Resp: 2307
Ion Ratio Lower Upper
117 100
119 85.8 79.0 118.6
121 32.6 24.7 37.1



#39
Methylcyclohexane
Concen: 0.446 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

Tgt Ion: 83 Resp: 2152
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 224.3 36.6 54.8#





#43

Isopropyl Acetate

Concen: 0.314 ug/l

RT: 8.32 min Scan# 2037

Delta R.T. 0.16 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampleId :

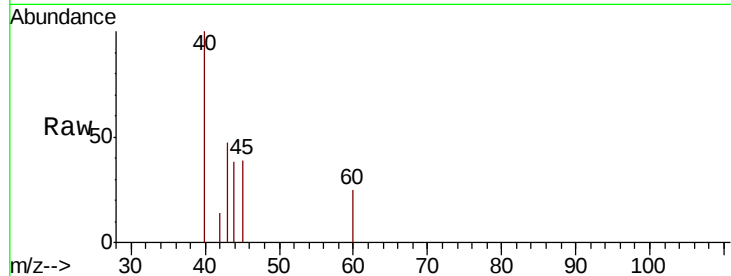
Tot Ion: 43 Resp: 1753

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

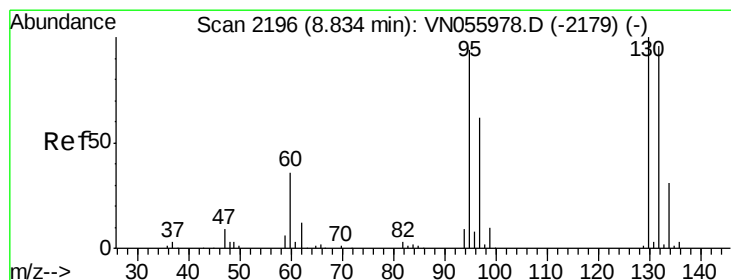
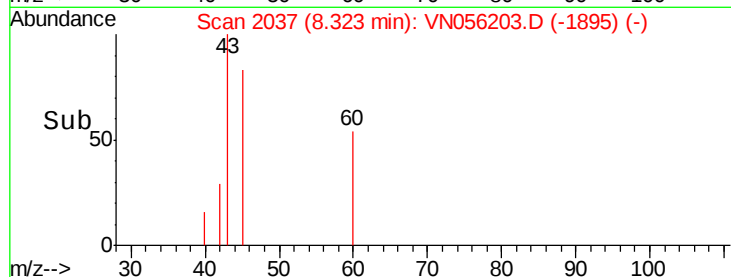
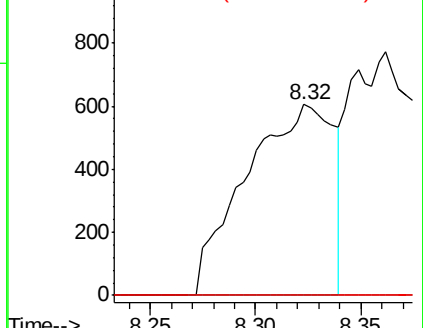
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#44

Trichloroethene

Concen: 59.934 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056203.D

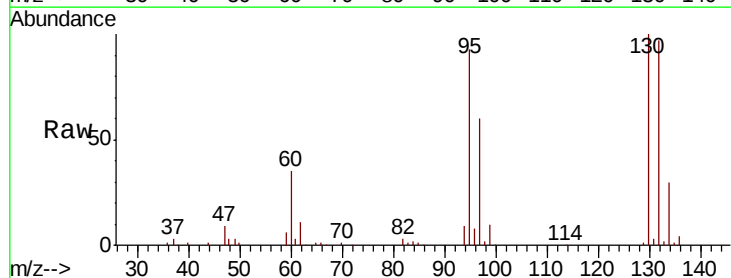
Acq: 11 Jun 2019 6:26

Tgt Ion: 130 Resp: 202656

Ion Ratio Lower Upper

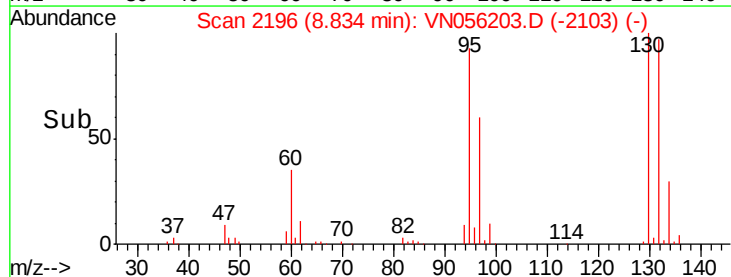
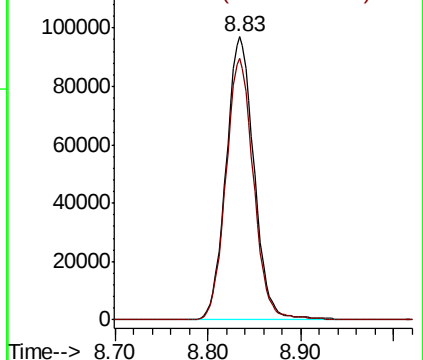
130 100

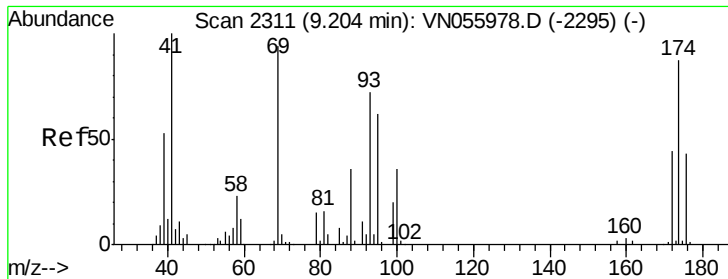
95 92.5 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)

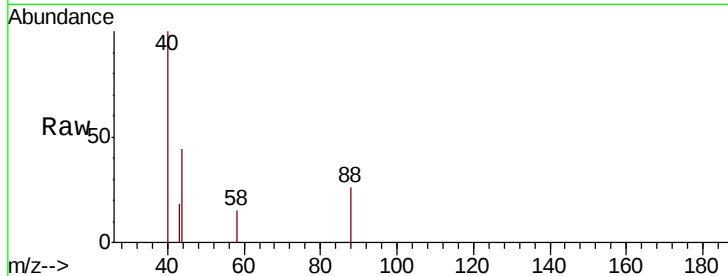




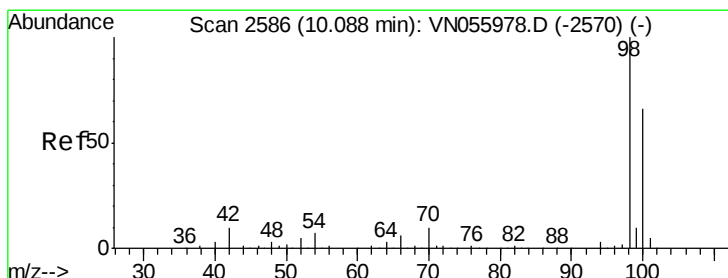
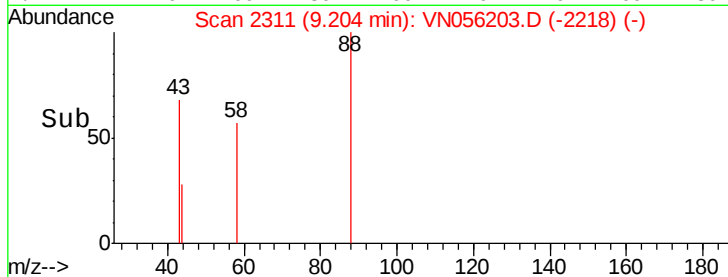
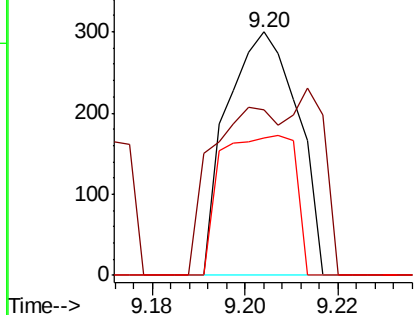
#49
 1,4-Dioxane
 Concen: 5.373 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN056203.D
 Acq: 11 Jun 2019 6:26

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 88 Resp: 317
 Ion Ratio Lower Upper
 88 100
 43 66.9 20.5 30.7#
 58 60.3 55.8 83.6

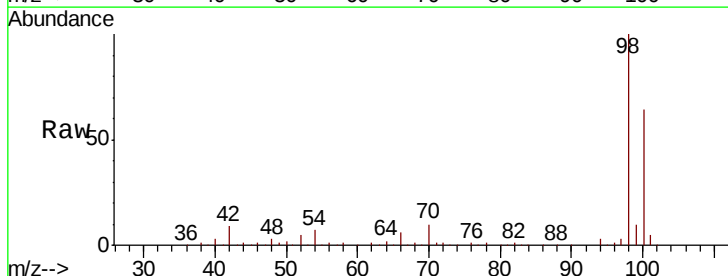


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

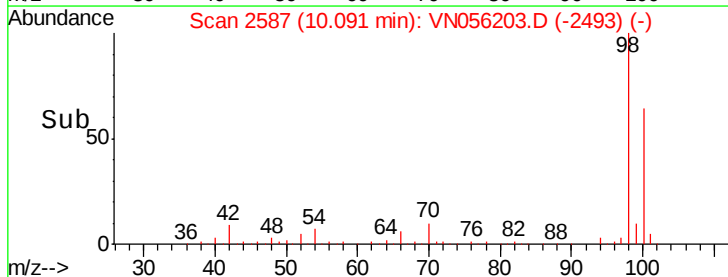
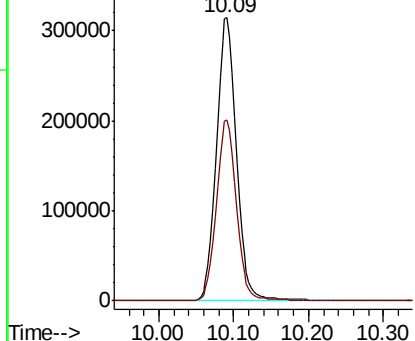


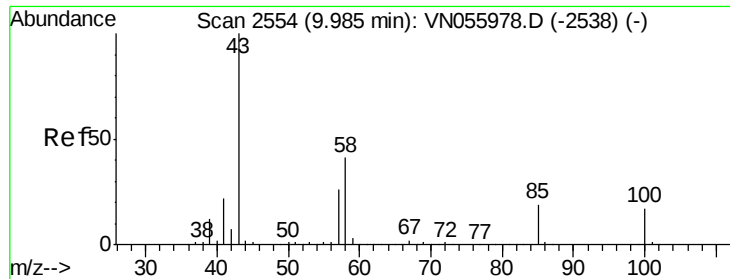
#50
 Toluene-d8
 Concen: 55.370 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN056203.D
 Acq: 11 Jun 2019 6:26

Tgt Ion: 98 Resp: 589002
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.9 77.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.628 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

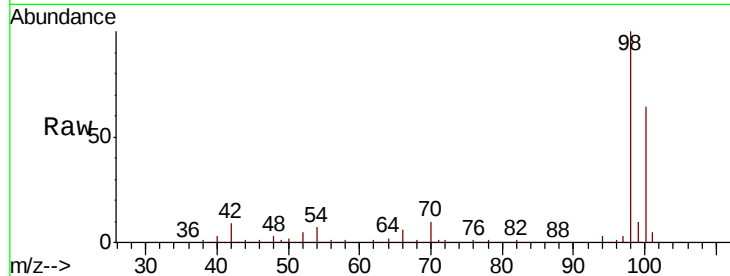
ClientSampled :

Tot Ion: 43 Resp: 2195

Ion Ratio Lower Upper

43 100

58 185.1 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

1500

1000

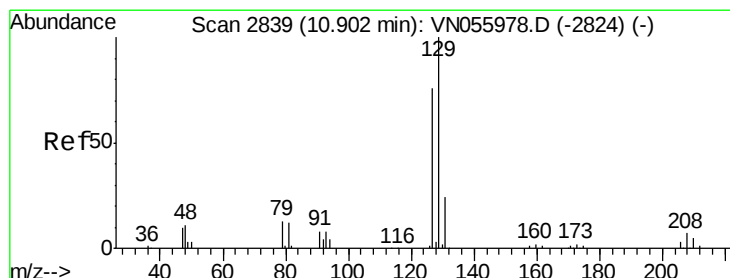
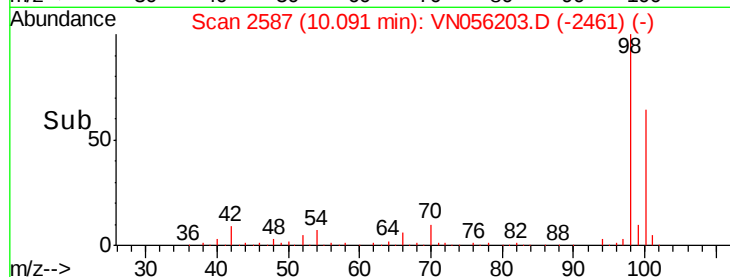
500

0

10.05

10.10

Time-->



#60

Dibromochloromethane

Concen: 2.837 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056203.D

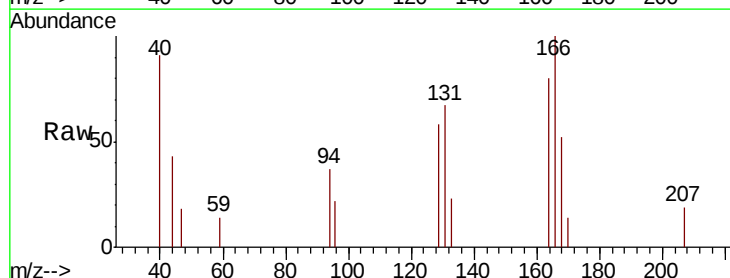
Acq: 11 Jun 2019 6:26

Tgt Ion: 129 Resp: 1297

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): VN055978.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN055978.D (-2824) (-)

800

600

400

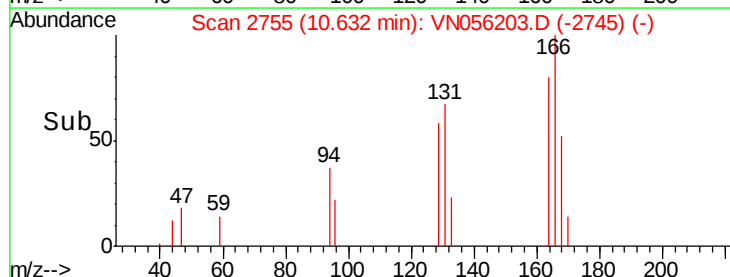
200

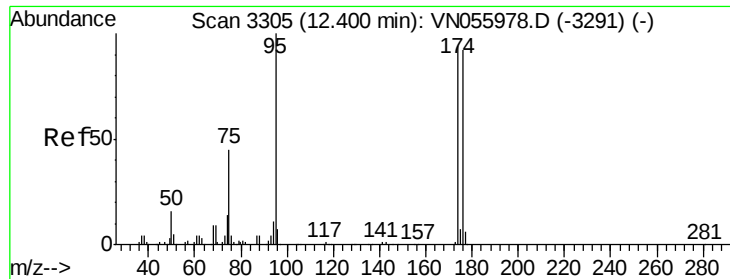
0

10.60

10.65

Time-->





#62

4-Bromofluorobenzene

Concen: 51.561 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampled :

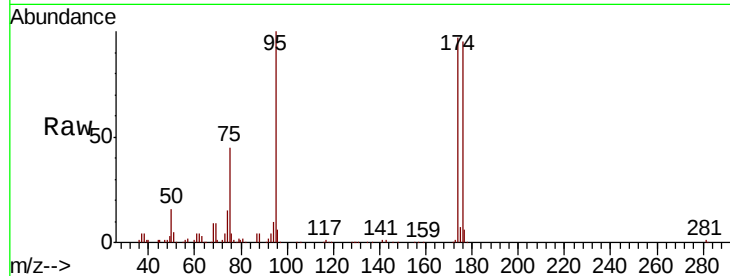
Tot Ion: 95 Resp: 186526

Ion Ratio Lower Upper

95 100

174 98.6 0.0 191.0

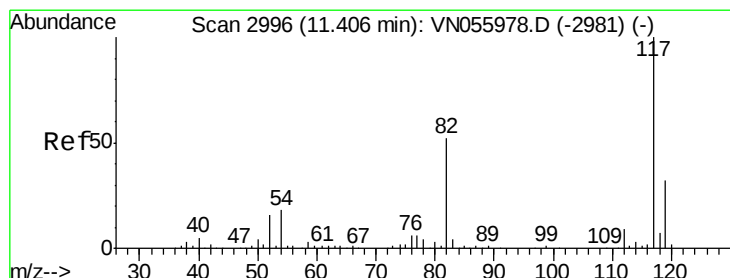
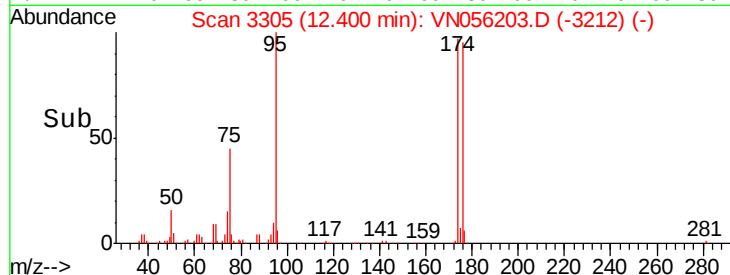
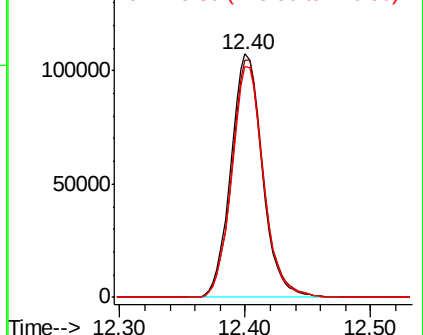
176 95.3 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

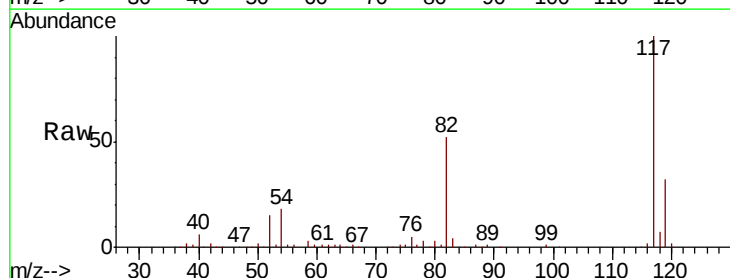
Tgt Ion: 117 Resp: 447819

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.8

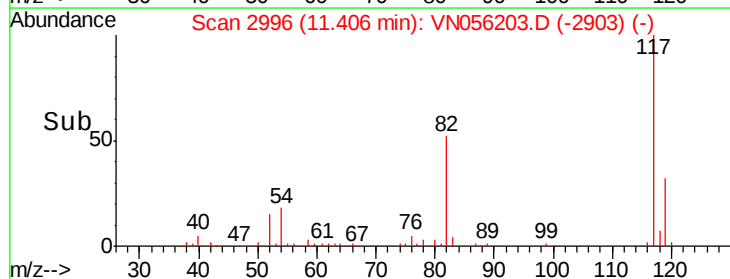
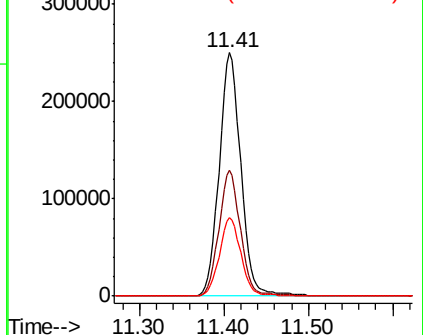
119 32.3 25.4 38.0

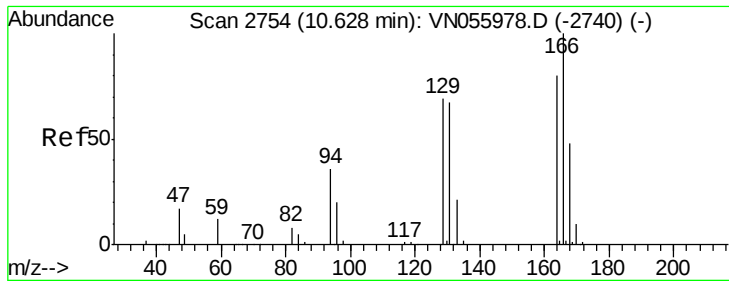


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.464 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

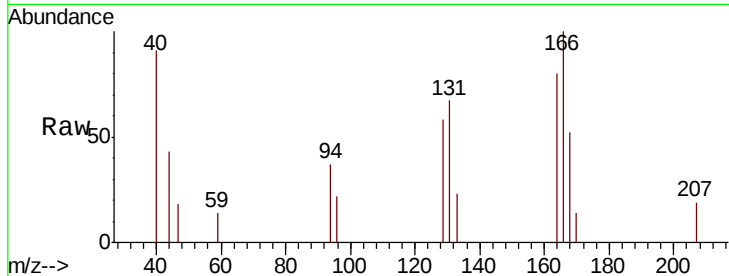
Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:164 Resp: 1797

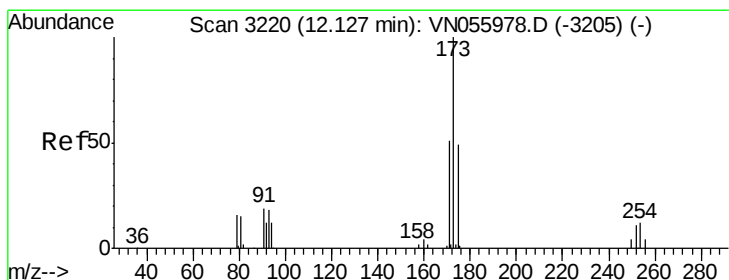
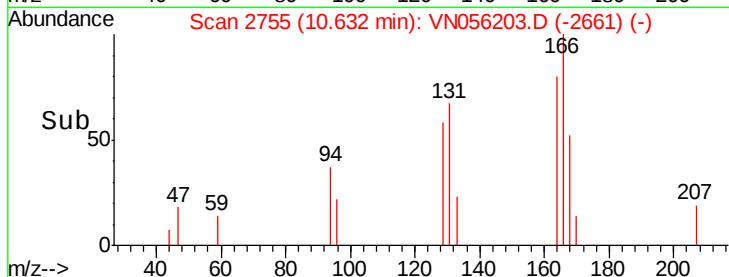
Ion Ratio Lower Upper

164 100

166 124.5 103.0 154.6

129 72.8 70.6 105.8

131 82.9 68.6 102.8



#71

Bromoform

Concen: 3.089 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

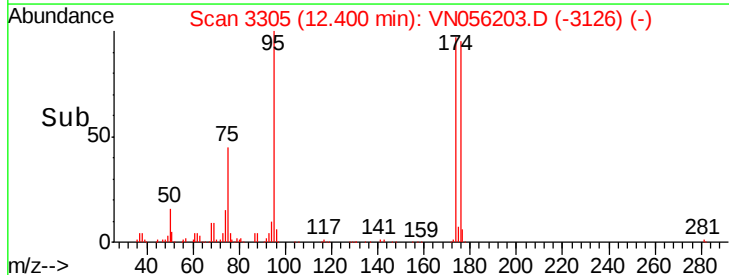
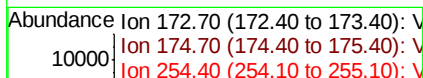
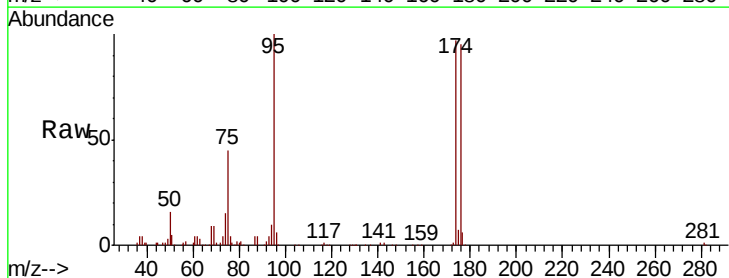
Tgt Ion:173 Resp: 947

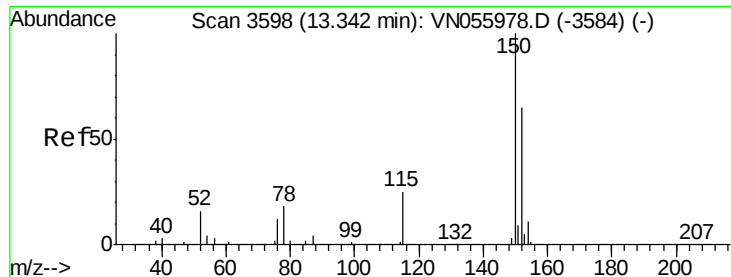
Ion Ratio Lower Upper

173 100

175 1203.0 24.3 72.8#

254 0.0 0.0 0.0



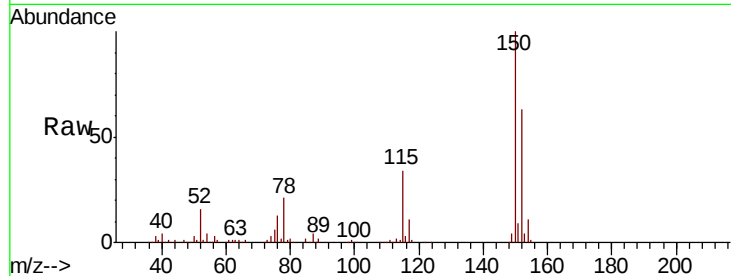


#72

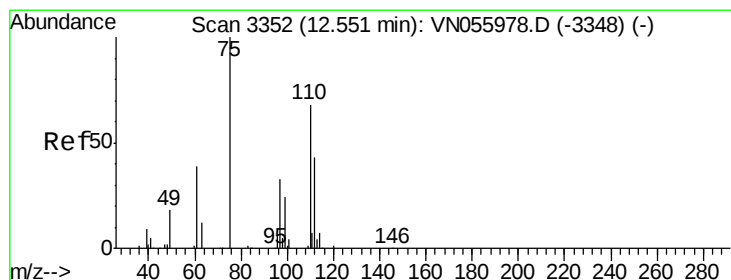
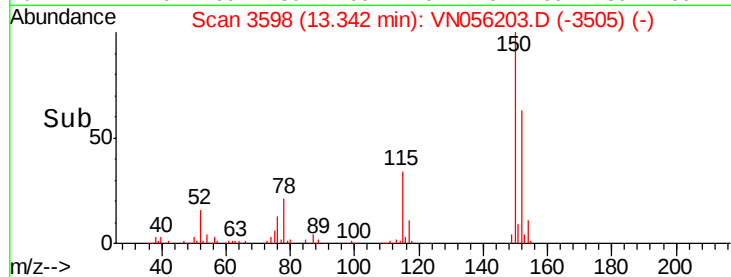
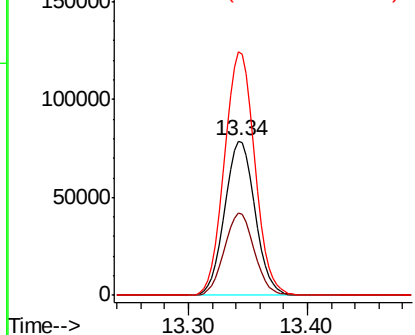
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 138948
Ion Ratio Lower Upper
152 100
115 52.8 27.0 81.0
150 158.2 0.0 343.2



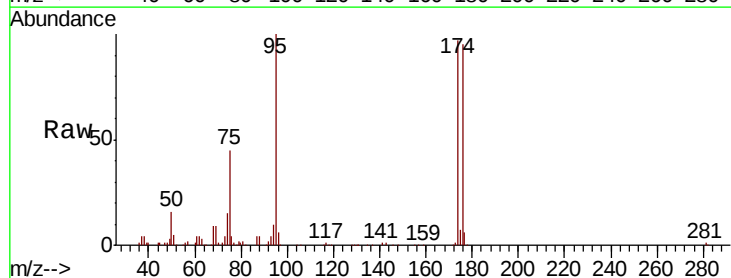
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



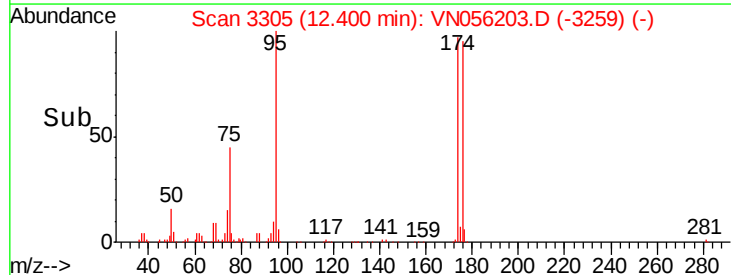
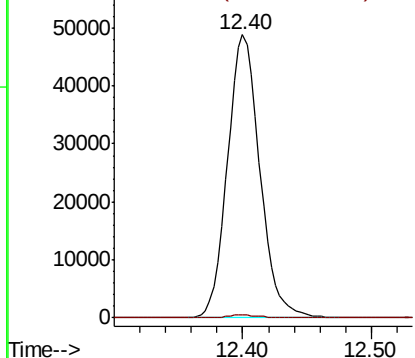
#76

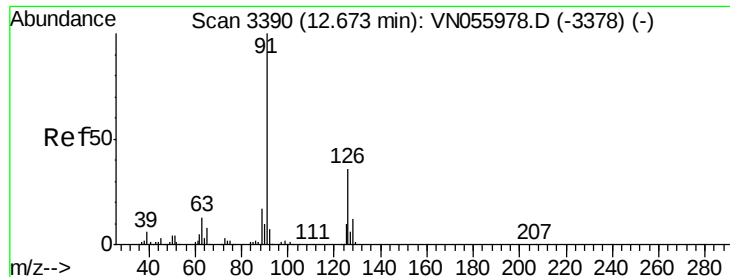
1,2,3-Trichloropropane
Concen: 33.232 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056203.D
Acq: 11 Jun 2019 6:26

Tgt Ion: 75 Resp: 84965
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





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

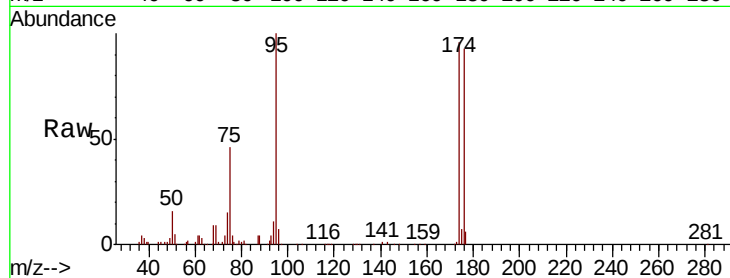
ClientSampled :

Tot Ion: 91 Resp: 465

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): VNO

12.40

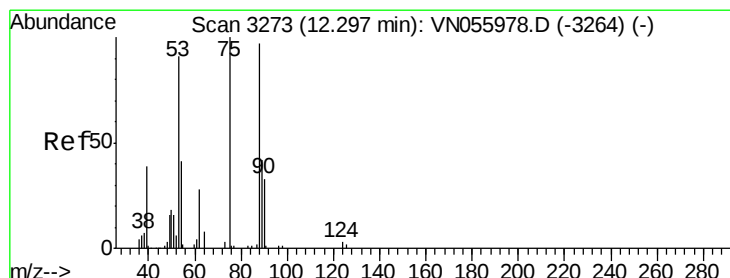
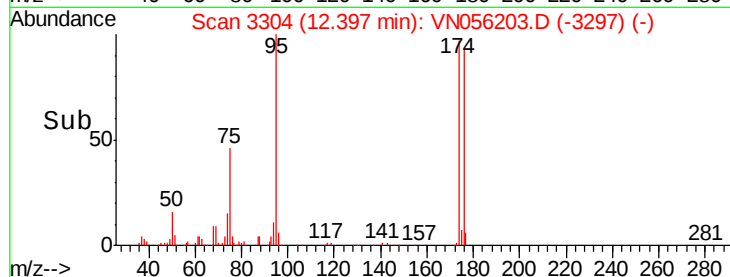
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.670 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

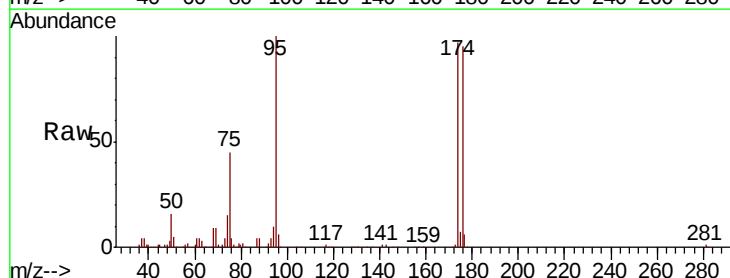
Tgt Ion: 75 Resp: 84965

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

60000

50000

40000

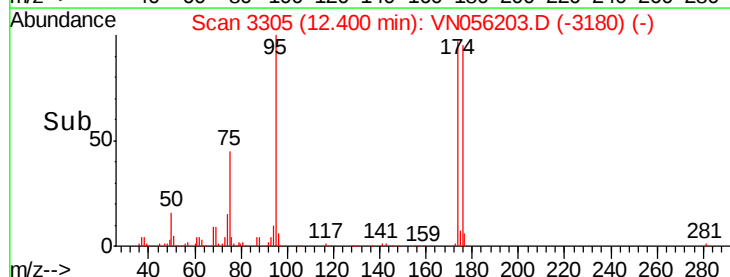
30000

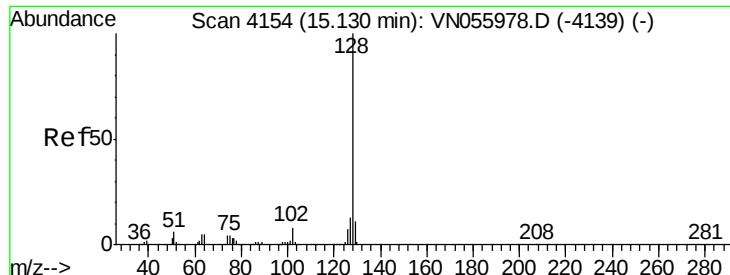
20000

10000

0

Time-->





#95

Naphthalene

Concen: 3.925 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

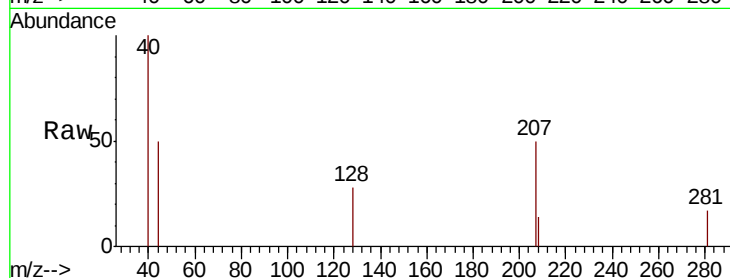
Lab File: VN056203.D

Acq: 11 Jun 2019 6:26

Instrument :

MSVOA_N

ClientSampleId :



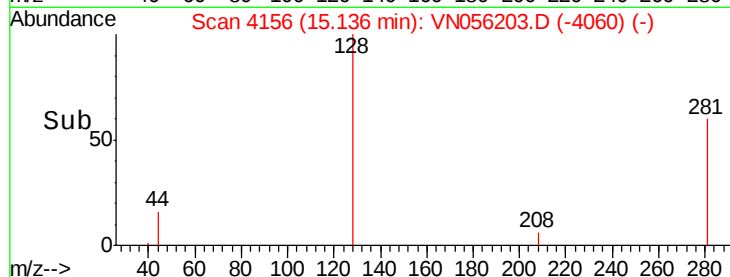
Tot Ion:128 Resp: 534

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

