

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056103.D
 Acq On : 7 Jun 2019 17:14
 Operator : JC/SP
 Sample : K3214-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 08 05:12:21 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	318342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	482347	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142868	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	170605	53.97	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.59	113	148673	50.24	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.09	98	617718	54.24	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	190527	49.20	ug/l	0.00
Spiked Amount						

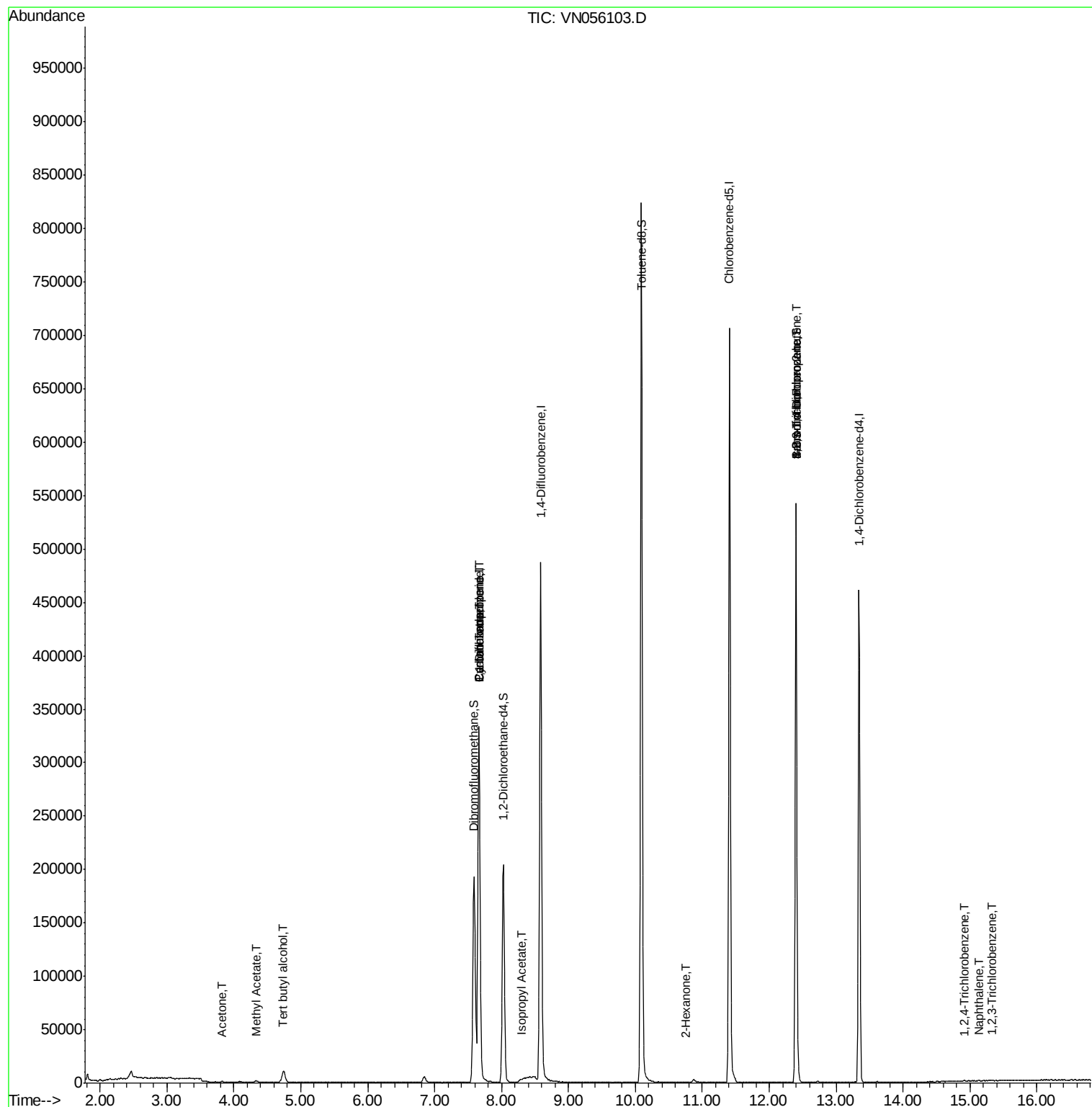
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	10098	18.358	ug/l #	74
16) Acetone	3.82	43	1300	0.860	ug/l	96
18) Methyl Acetate	4.34	43	3096	0.470	ug/l #	74
31) Cyclohexane	7.66	56	4479	0.893	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18890	4.555	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26374	6.897	ug/l #	15
43) Isopropyl Acetate	8.29	43	2712	0.454	ug/l #	53
59) 2-Hexanone	10.75	43	586	0.216	ug/l #	23
71) Bromoform	12.40	173	1154	3.158	ug/l #	1
73) Isopropylbenzene	12.25	105	105	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	86734	32.993	ug/l #	100
79) 2-Chlorotoluene	12.59	91	341	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	86734	109.874	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	525	4.452	ug/l #	69
95) Naphthalene	15.13	128	1058	3.994	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	692	3.273	ug/l #	67

(#) = 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: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

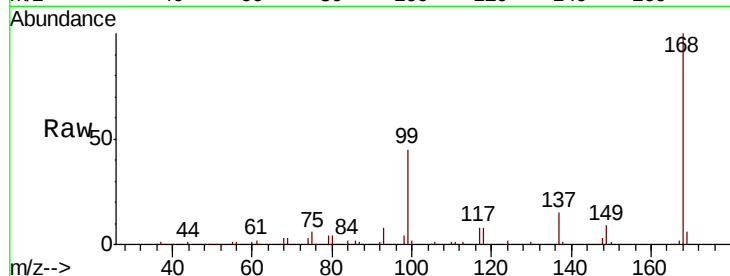
ClientSampleId :

Tot Ion:168 Resp: 318342

Ion Ratio Lower Upper

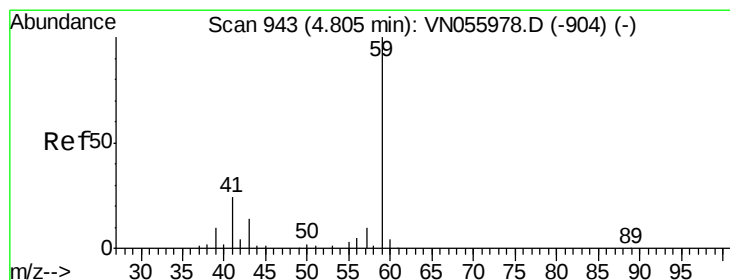
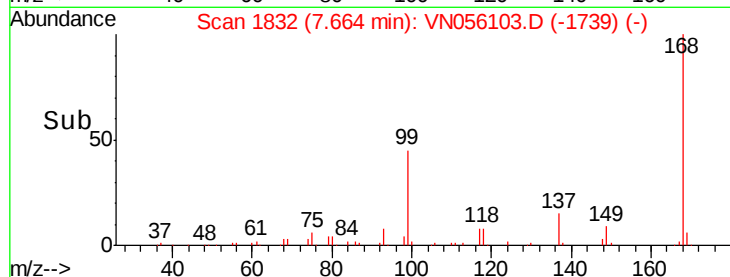
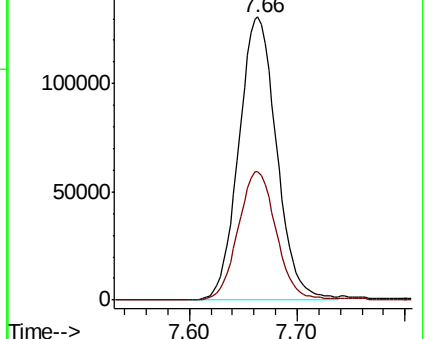
168 100

99 45.5 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) (-)



#11

Tert butyl alcohol

Concen: 18.358 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN056103.D

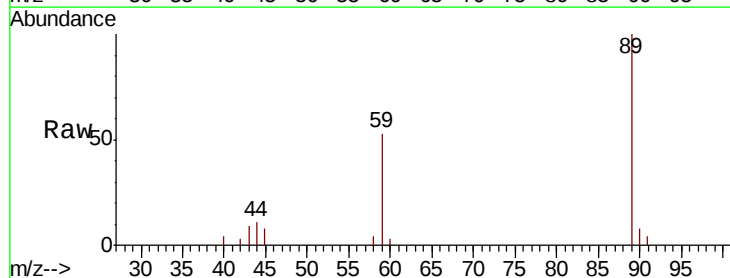
Acq: 7 Jun 2019 17:14

Tgt Ion: 59 Resp: 10098

Ion Ratio Lower Upper

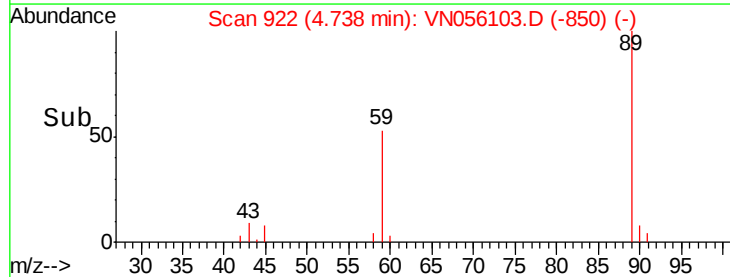
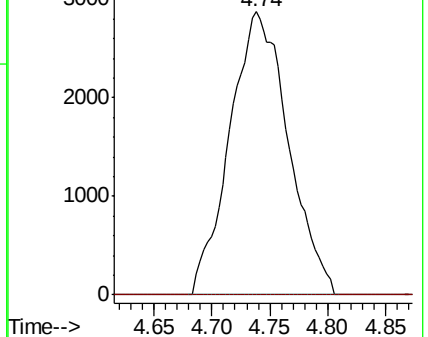
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

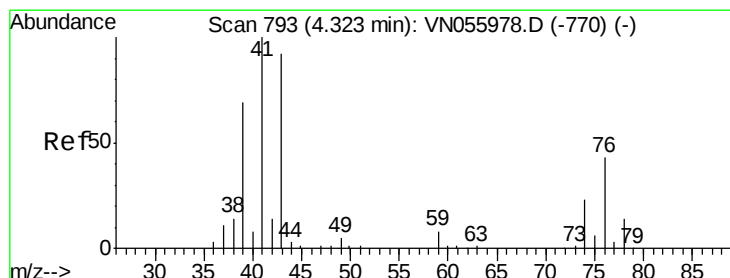
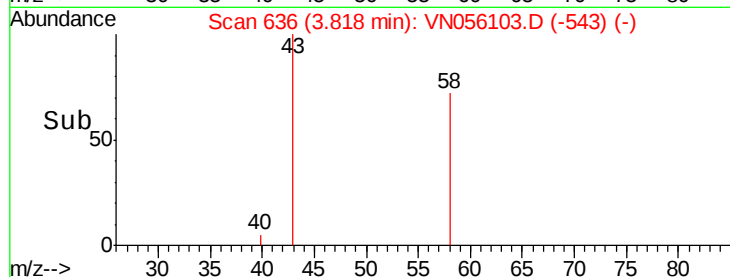
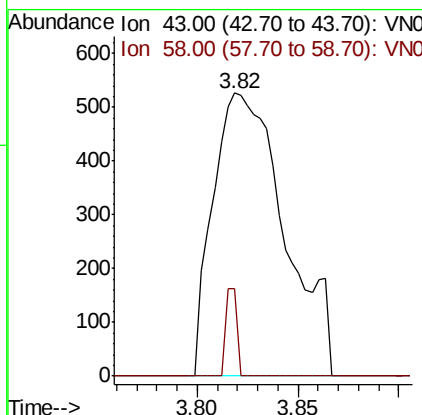
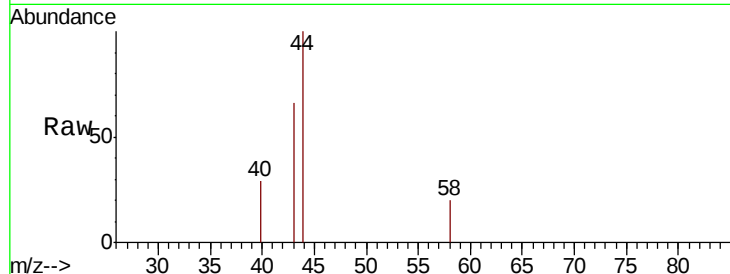




#16
Acetone
Concen: 0.860 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

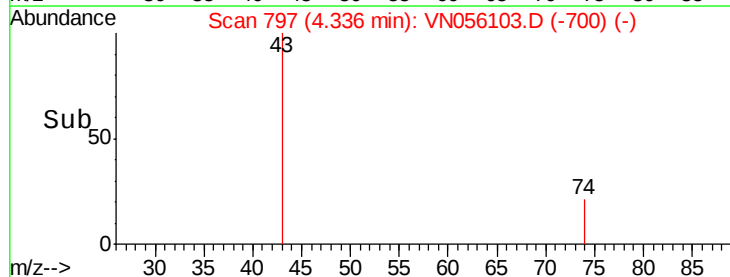
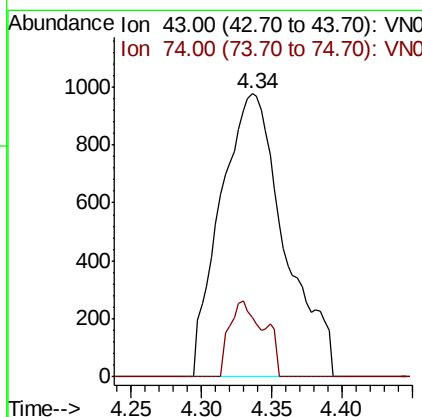
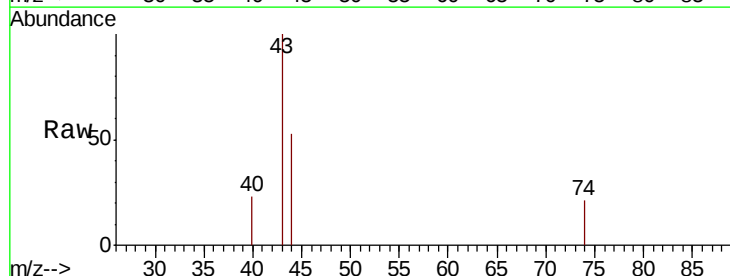
Instrument :
MSVOA_N
ClientSampled :

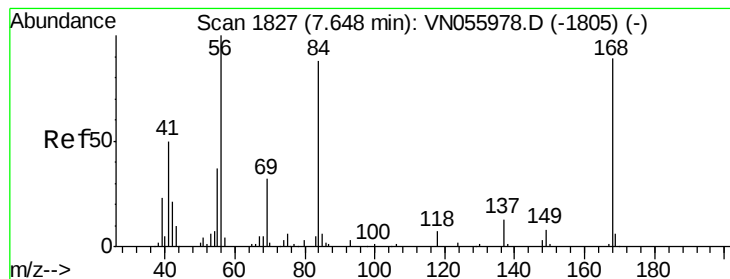
Tot Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
58 30.7 26.6 39.8



#18
Methyl Acetate
Concen: 0.470 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

Tgt Ion: 43 Resp: 3096
Ion Ratio Lower Upper
43 100
74 11.3 19.3 28.9#





#31

Cvclohexane

Concen: 0.893 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :
MSVOA_N
ClientSampled :

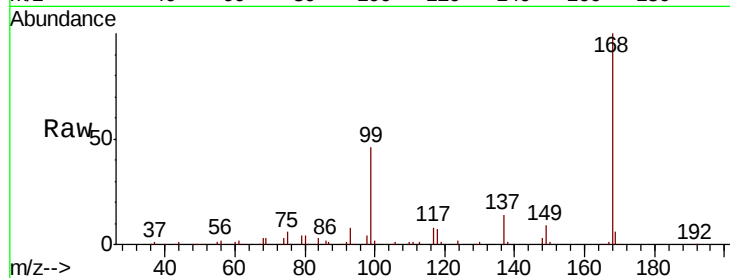
Tot Ion: 56 Resp: 4479

Ion Ratio Lower Upper

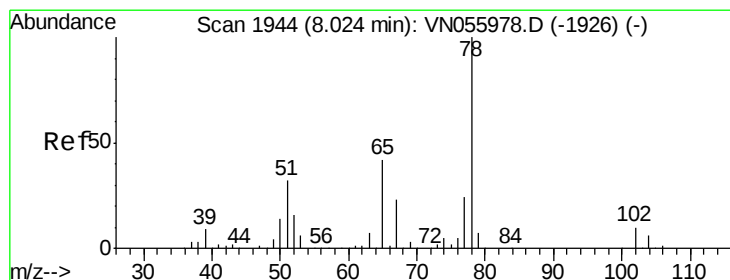
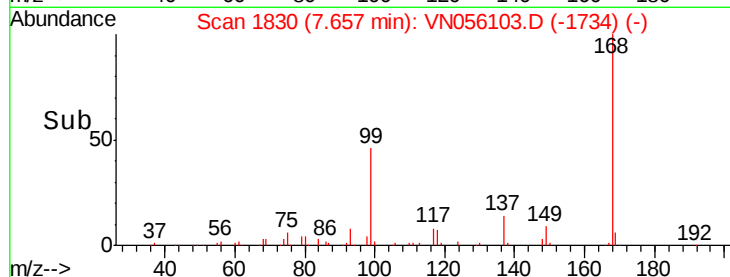
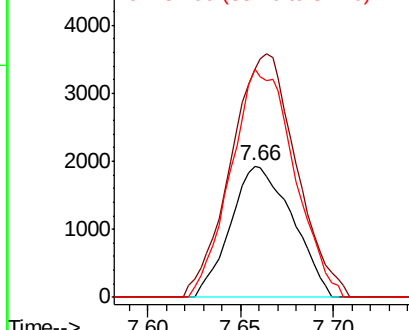
56 100

69 164.5 25.6 38.4#

84 173.5 67.4 101.0#



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



#33

1,2-Dichloroethane-d4

Concen: 53.974 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056103.D

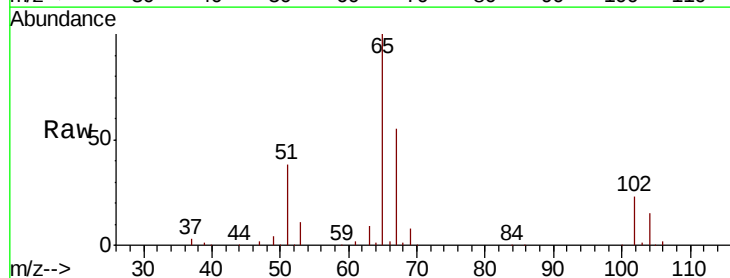
Acq: 7 Jun 2019 17:14

Tgt Ion: 65 Resp: 170605

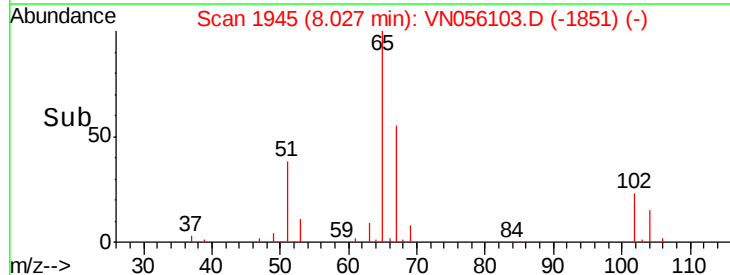
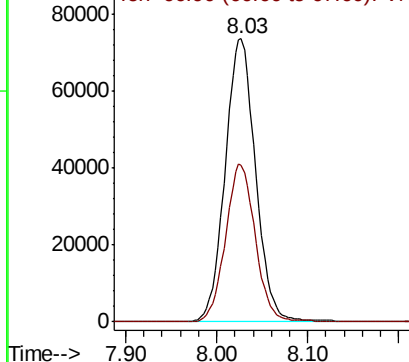
Ion Ratio Lower Upper

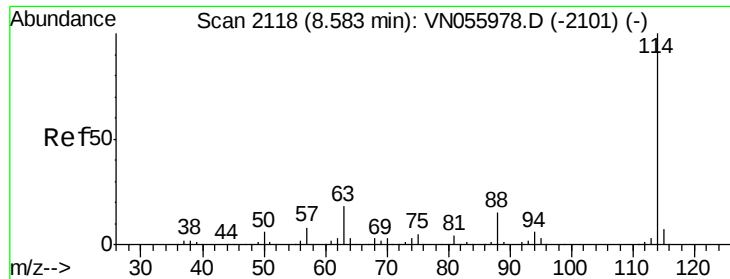
65 100

67 54.6 0.0 109.2



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

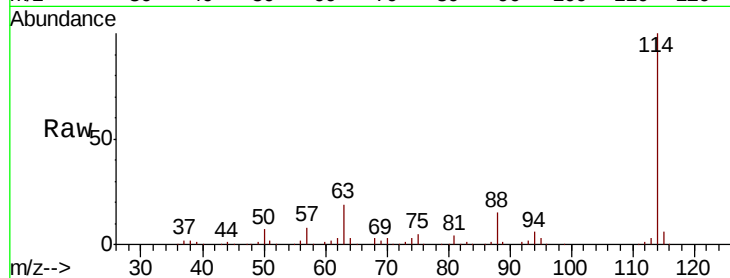




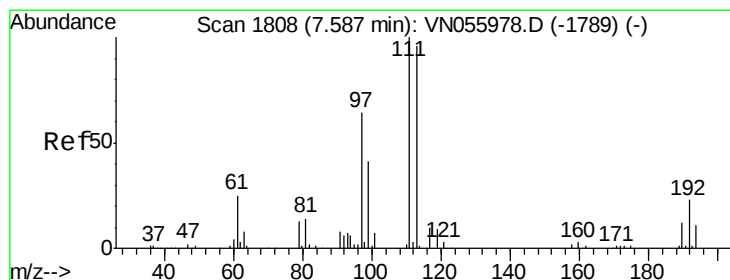
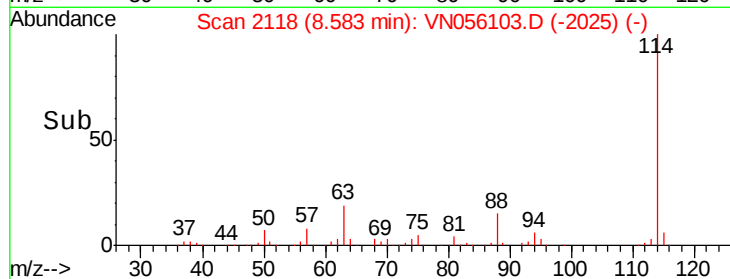
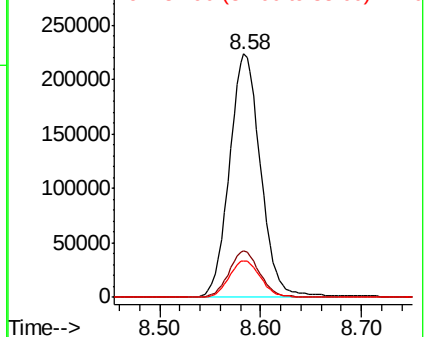
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 482347
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.2
88 15.0 0.0 31.0

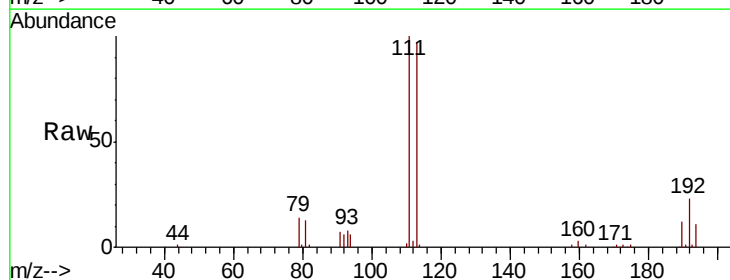


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

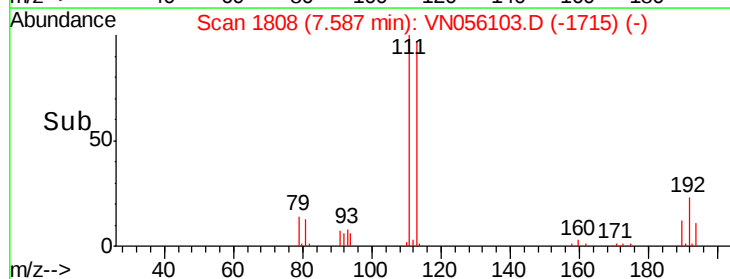
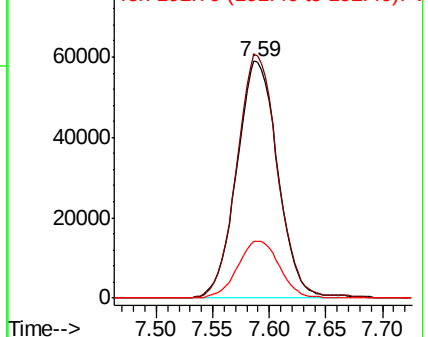


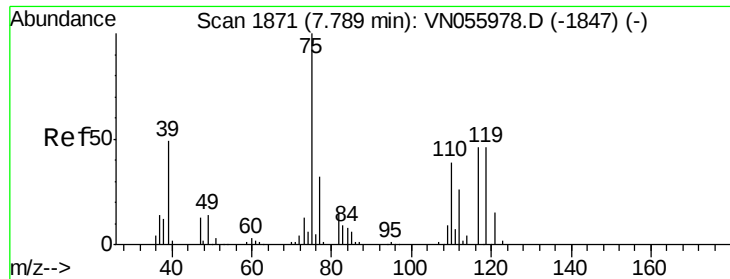
#35
Dibromofluoromethane
Concen: 50.238 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

Tgt Ion:113 Resp: 148673
Ion Ratio Lower Upper
113 100
111 101.8 81.9 122.9
192 24.6 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

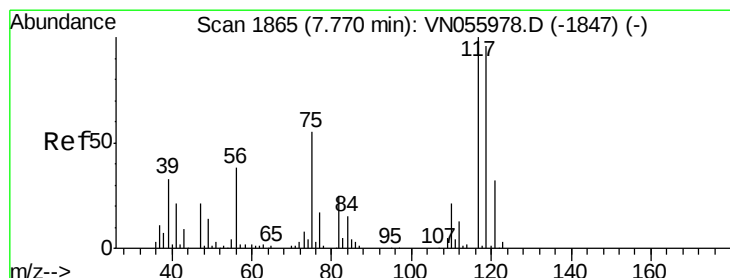
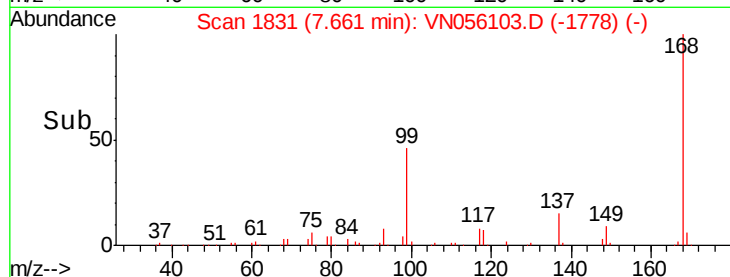
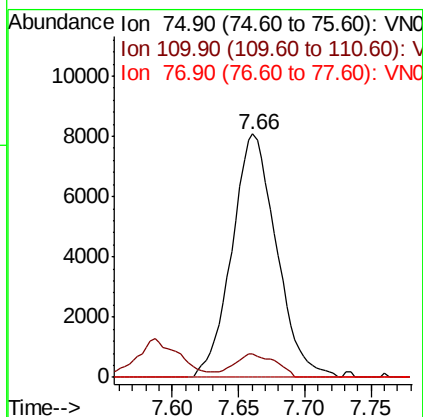
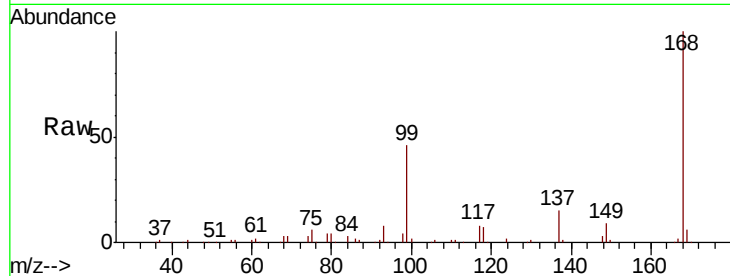




#36
 1,1-Dichloropropene
 Concen: 4.555 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056103.D
 Acq: 7 Jun 2019 17:14

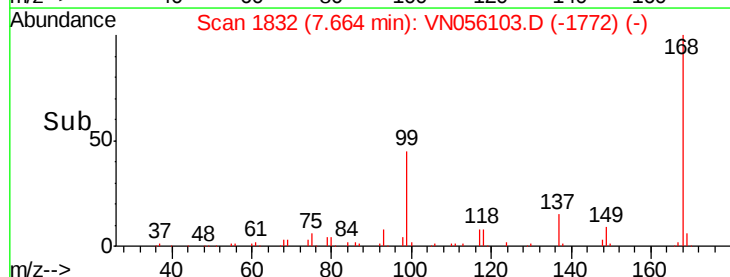
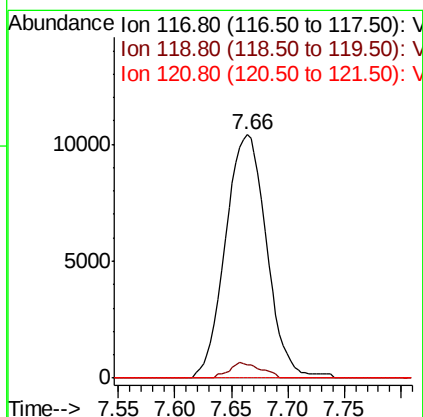
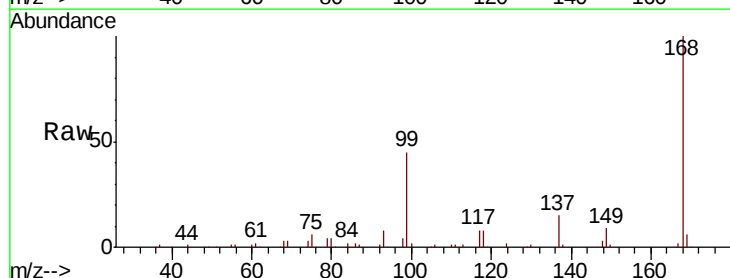
Instrument :
 MSVOA_N
 ClientSampleId :

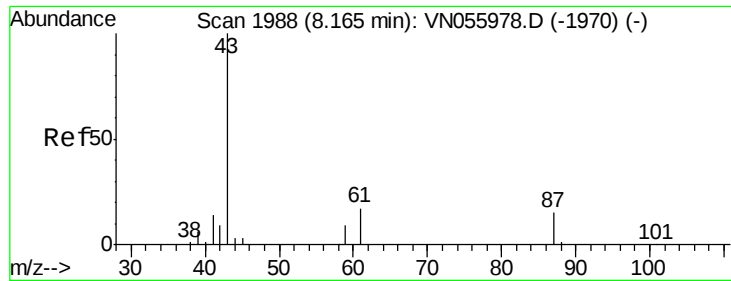
Tot Ion	75	Resp	18890
Ion Ratio	Lower	Upper	
75	100		
110	9.4	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.897 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056103.D
 Acq: 7 Jun 2019 17:14

Tgt Ion	117	Resp	26374
Ion Ratio	Lower	Upper	
117	100		
119	5.4	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.454 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

ClientSampleId :

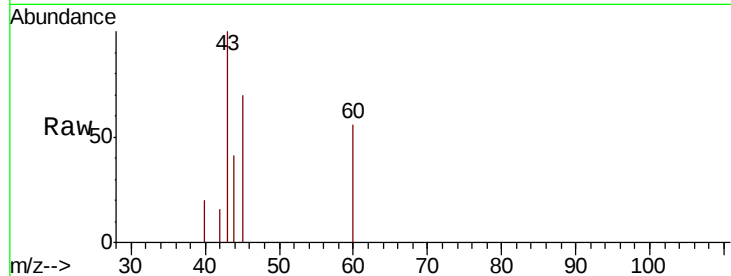
Tot Ion: 43 Resp: 2712

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

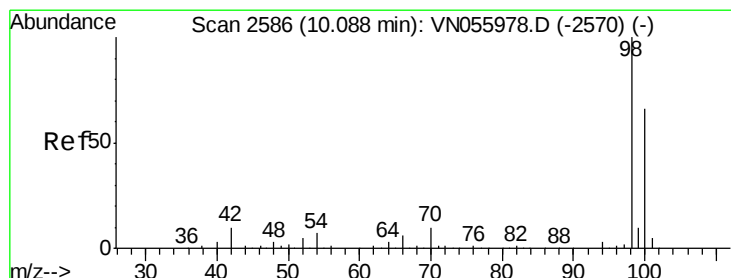
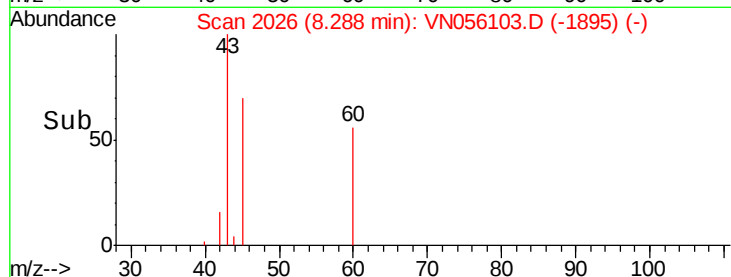
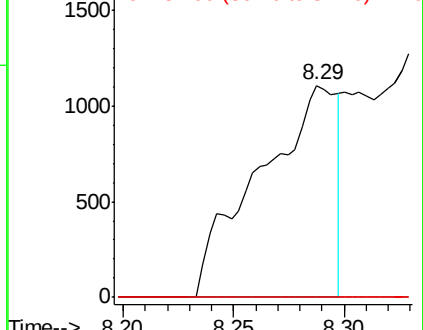
87 0.0 11.4 17.2#



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) (-)



#50

Toluene-d8

Concen: 54.245 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056103.D

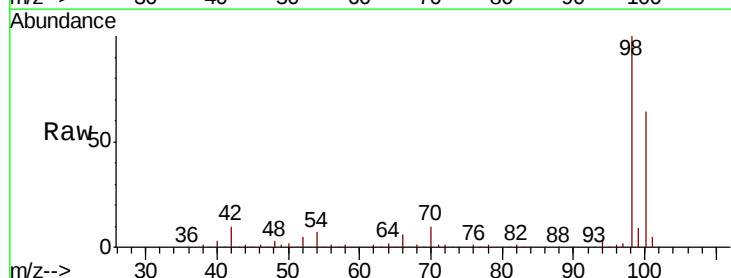
Acq: 7 Jun 2019 17:14

Tgt Ion: 98 Resp: 617718

Ion Ratio Lower Upper

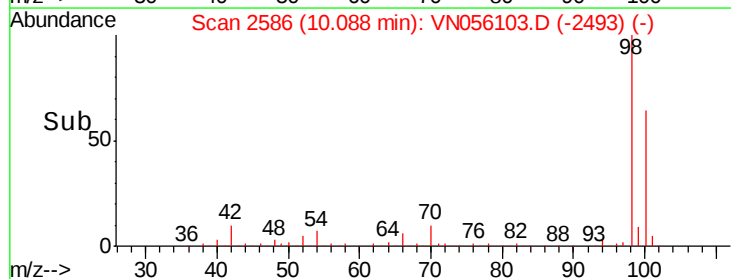
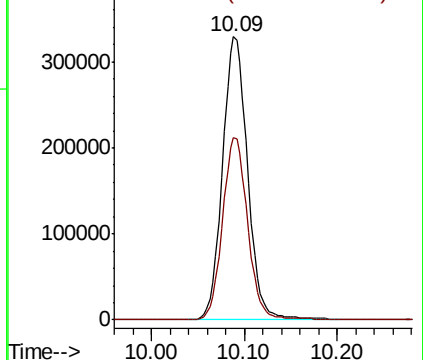
98 100

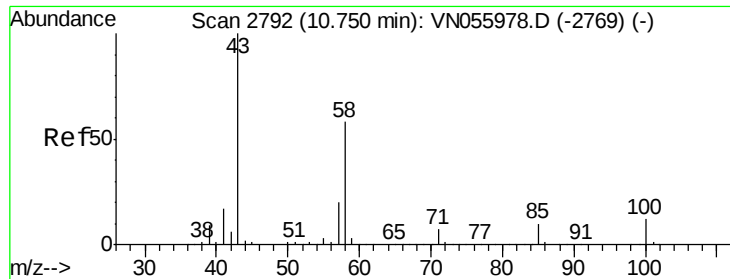
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

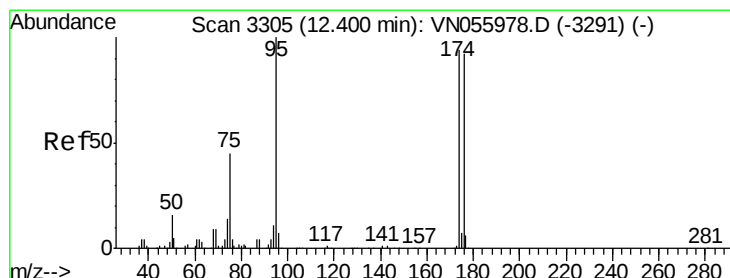
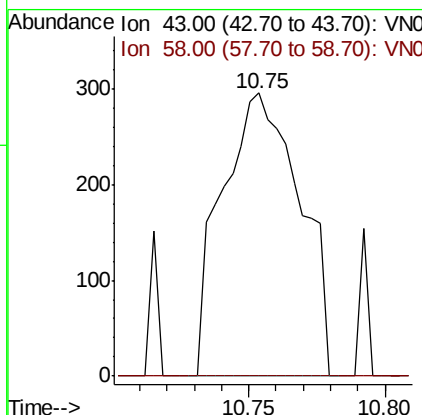
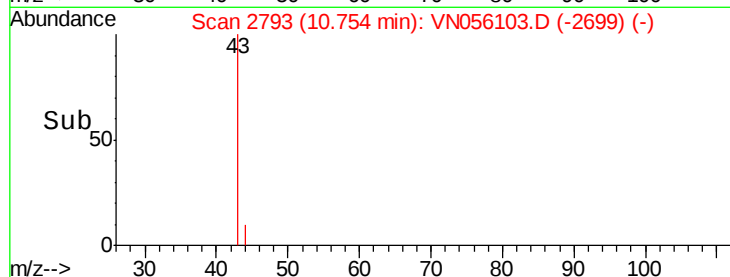
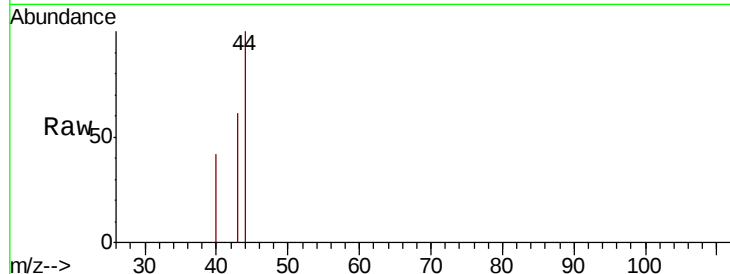




#59
2-Hexanone
Concen: 0.216 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

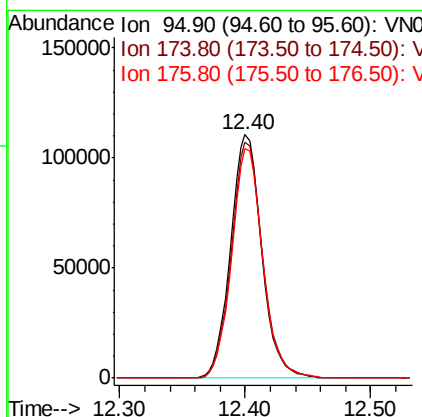
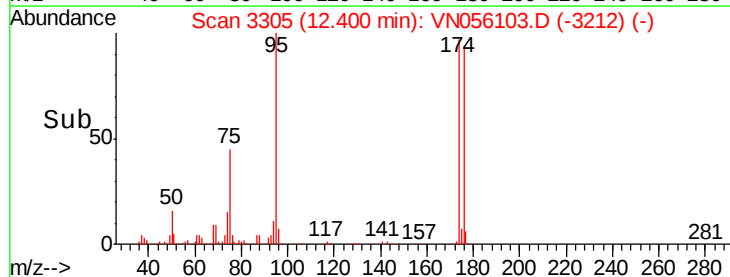
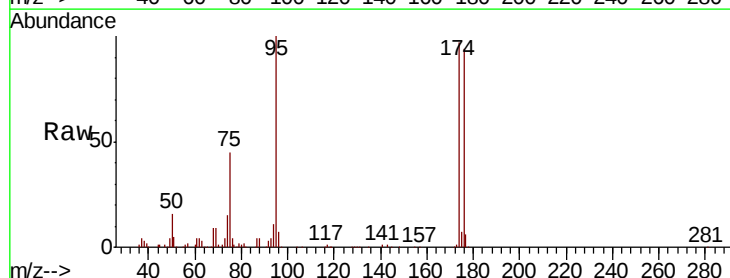
Instrument :
MSVOA_N
ClientSampleId :

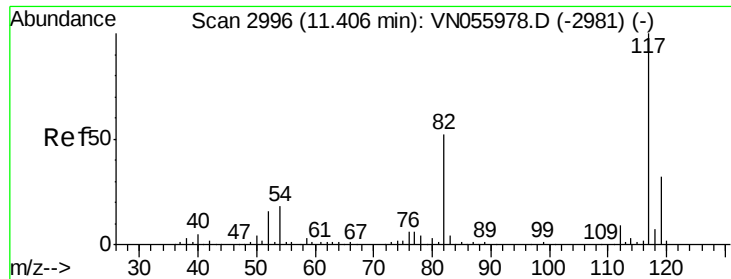
Tot Ion: 43 Resp: 586
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 49.198 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

Tgt Ion: 95 Resp: 190527
Ion Ratio Lower Upper
95 100
174 96.7 0.0 191.0
176 94.0 0.0 185.2

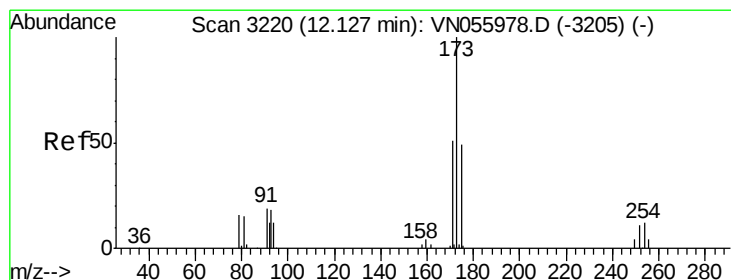
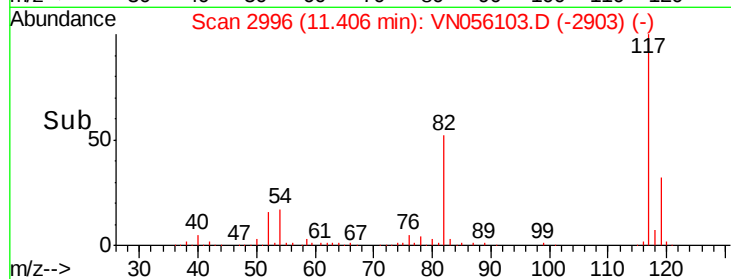
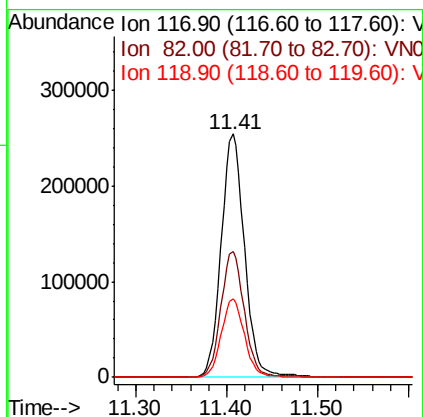
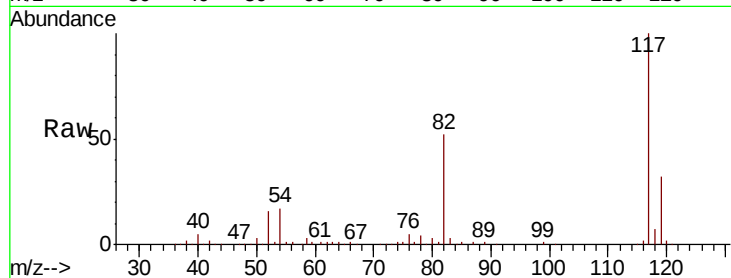




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

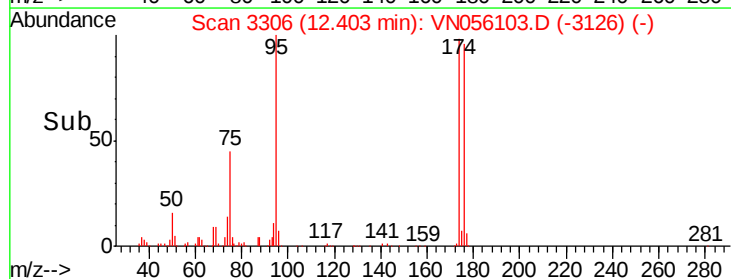
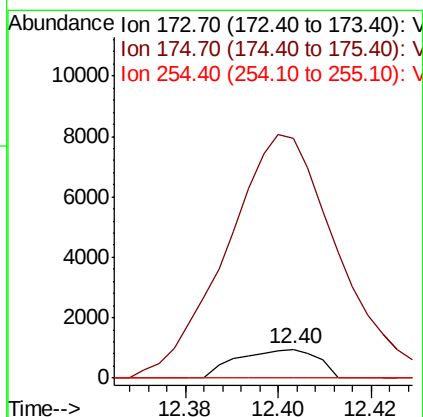
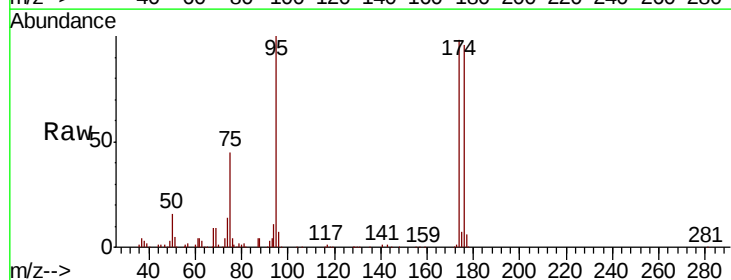
Instrument :
MSVOA_N
ClientSampleId :

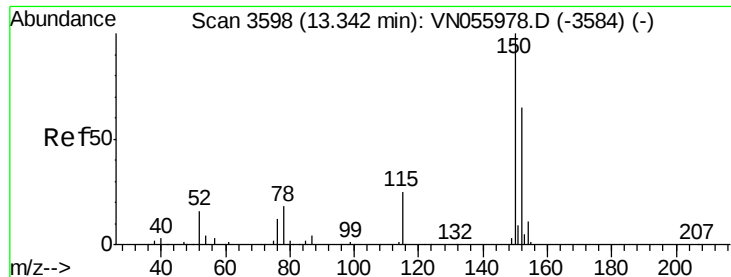
Tot Ion:117 Resp: 454388
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.3 25.4 38.0



#71
Bromoform
Concen: 3.158 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056103.D
Acq: 7 Jun 2019 17:14

Tgt Ion:173 Resp: 1154
Ion Ratio Lower Upper
173 100
175 1020.3 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: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

ClientSampled :

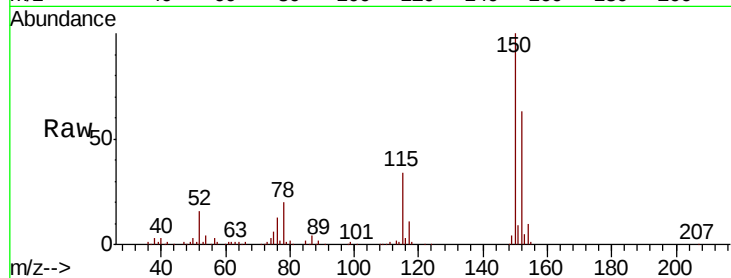
Tot Ion:152 Resp: 142868

Ion Ratio Lower Upper

152 100

115 52.9 27.0 81.0

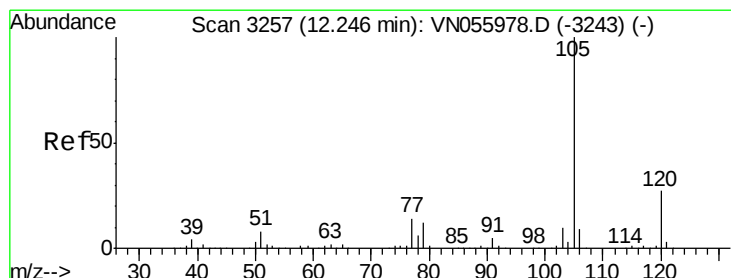
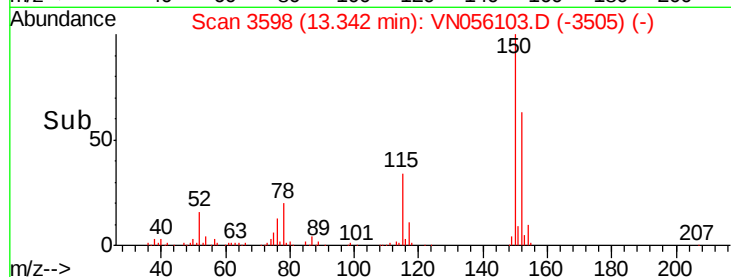
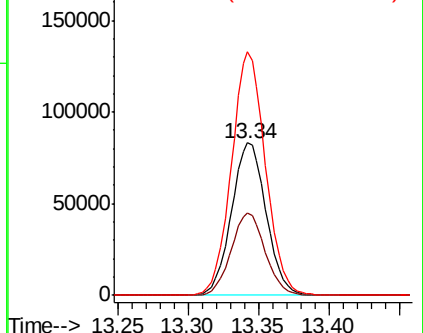
150 156.6 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056103.D

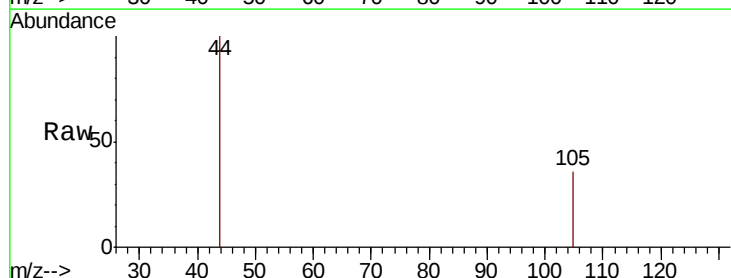
Acq: 7 Jun 2019 17:14

Tgt Ion:105 Resp: 105

Ion Ratio Lower Upper

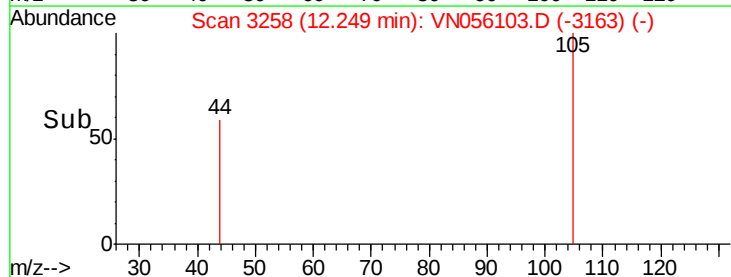
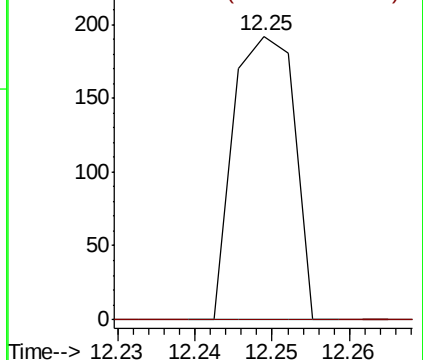
105 100

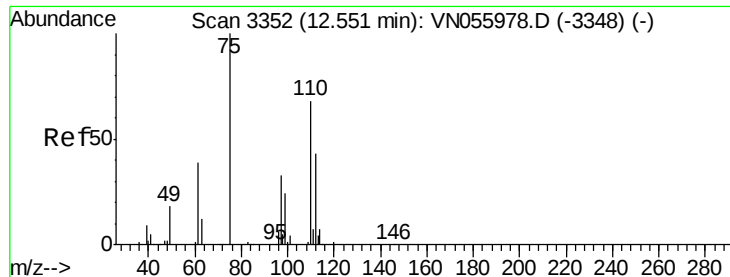
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.993 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

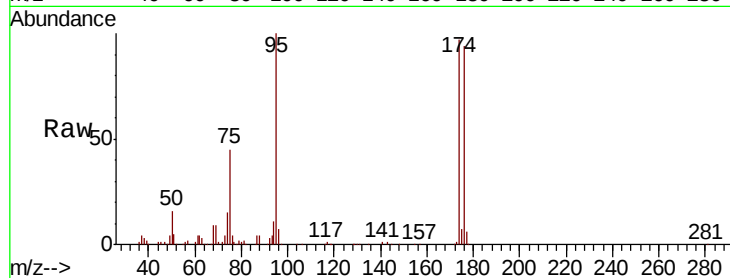
ClientSampled :

Tot Ion: 75 Resp: 86734

Ion Ratio Lower Upper

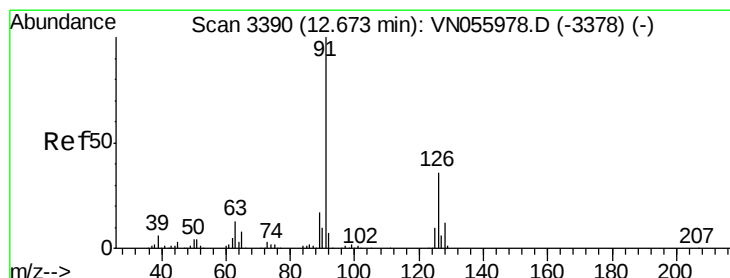
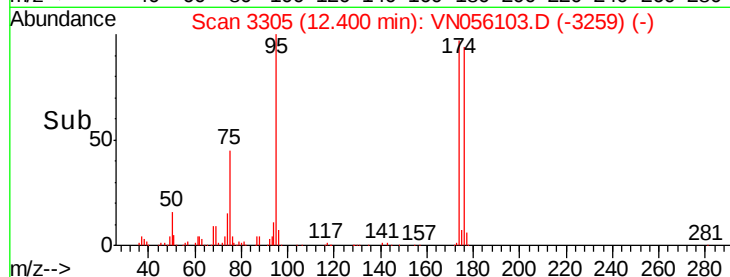
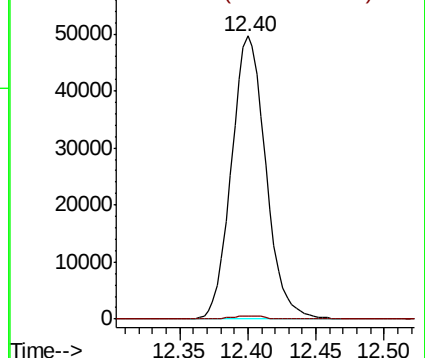
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056103.D

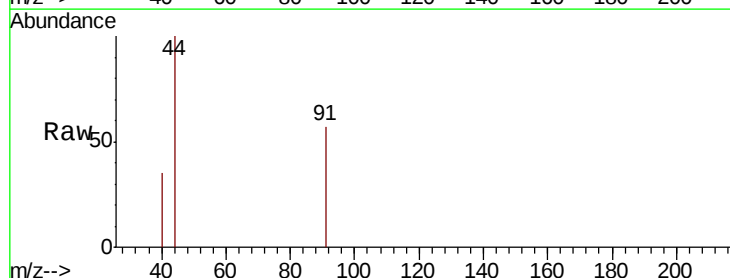
Acq: 7 Jun 2019 17:14

Tgt Ion: 91 Resp: 341

Ion Ratio Lower Upper

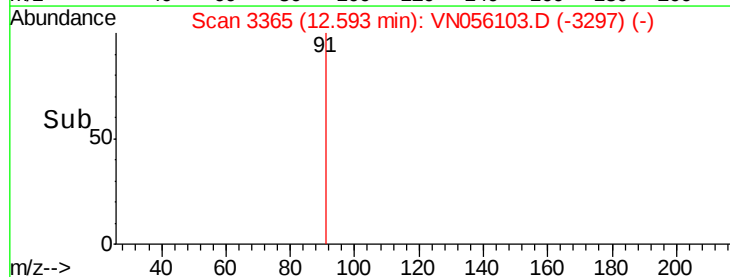
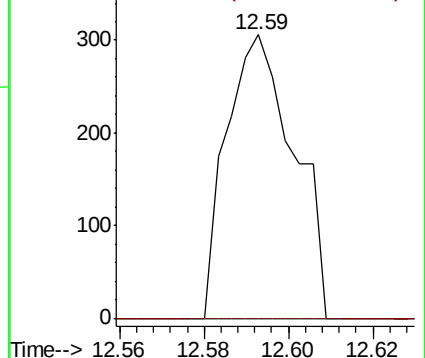
91 100

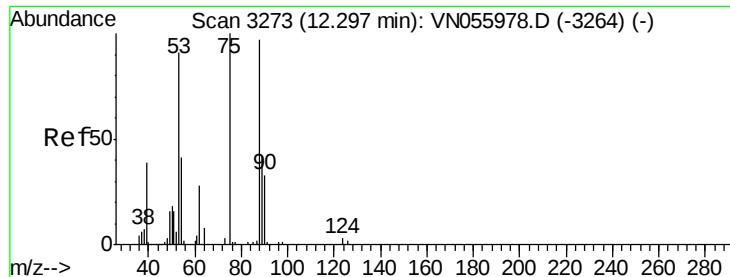
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.874 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

ClientSampleId :

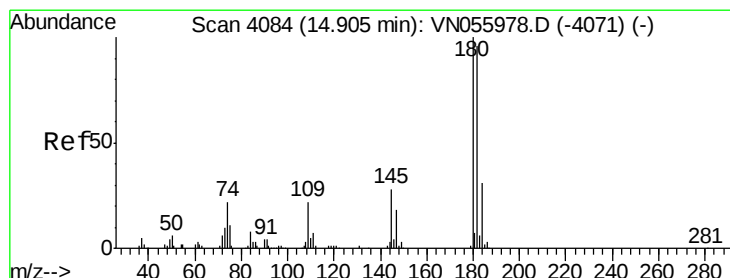
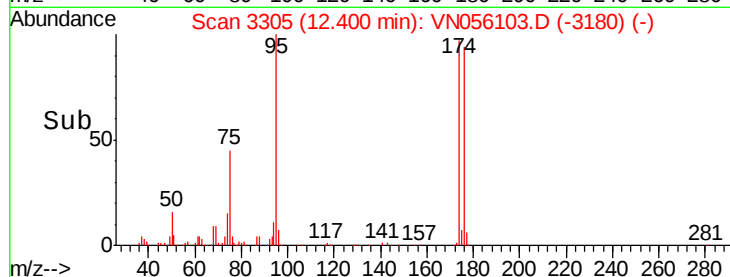
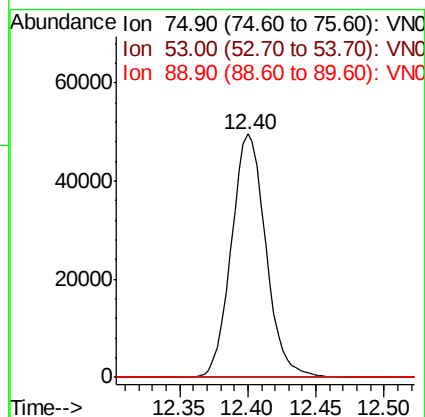
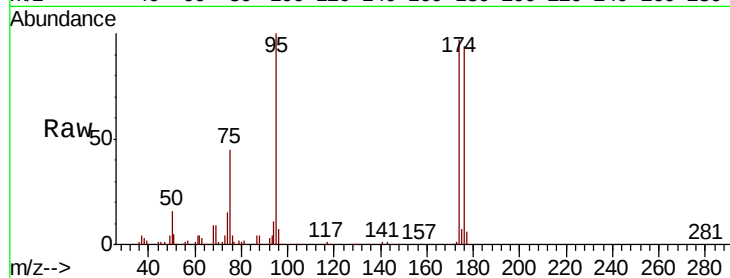
Tot Ion: 75 Resp: 86734

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



#93

1,2,4-Trichlorobenzene

Concen: 4.452 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

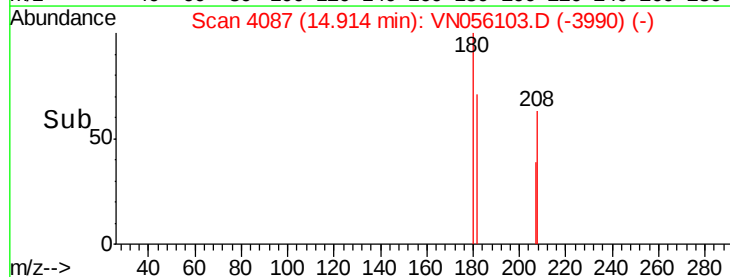
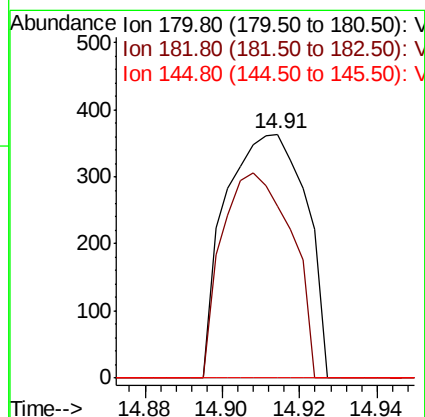
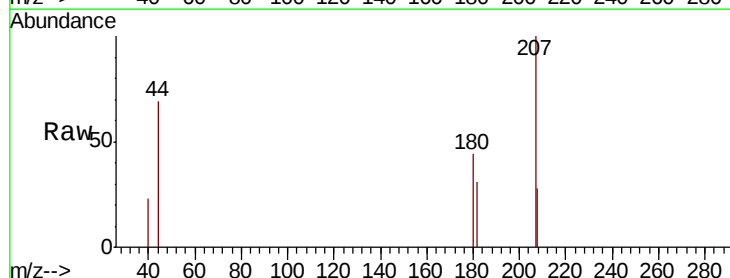
Tgt Ion:180 Resp: 525

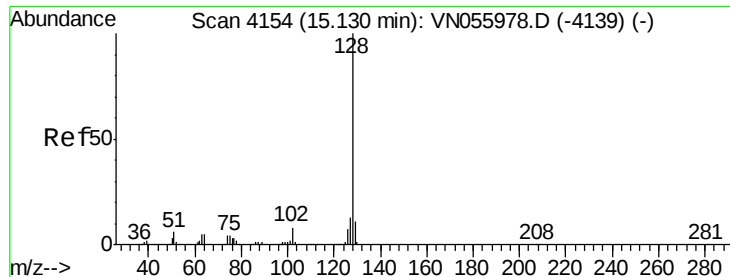
Ion Ratio Lower Upper

180 100

182 72.4 48.3 144.9

145 0.0 14.0 41.9#





#95

Naphthalene

Concen: 3.994 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

Instrument :

MSVOA_N

ClientSampleId :

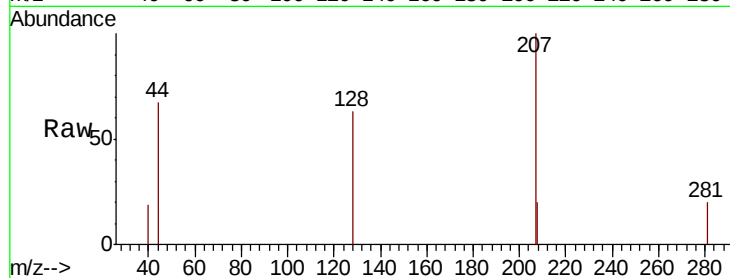
Tot Ion:128 Resp: 1058

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



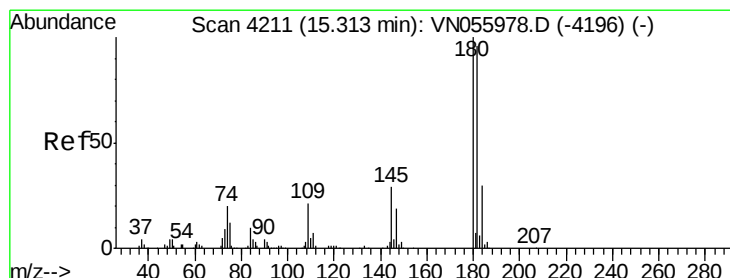
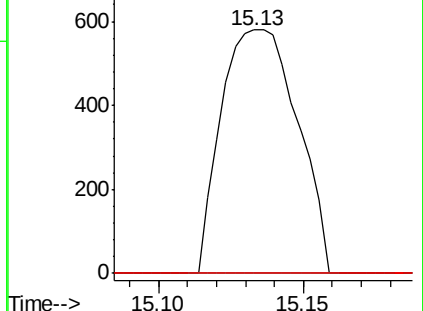
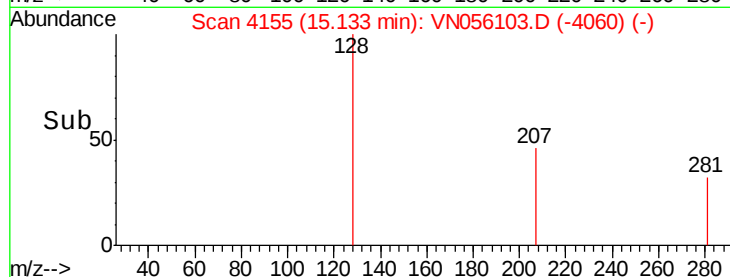
Abundance

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

15.13



#96

1,2,3-Trichlorobenzene

Concen: 3.273 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN056103.D

Acq: 7 Jun 2019 17:14

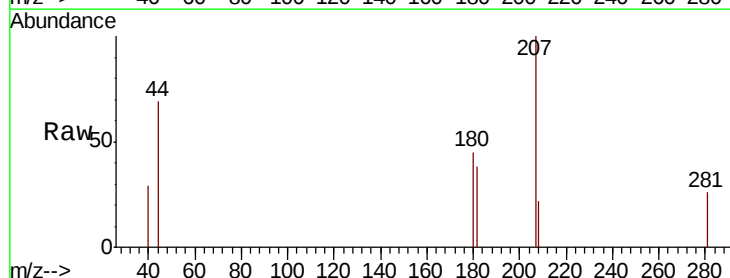
Tgt Ion:180 Resp: 692

Ion Ratio Lower Upper

180 100

182 65.9 47.9 143.7

145 9.0 14.9 44.7#



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

15.32

