

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058278.D
 Acq On : 23 Sep 2019 10:00
 Operator : JC/SP
 Sample : K4975-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:29:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	506434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	834876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	708556	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269733	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	380317	53.92	ug/l	0.00
Spiked Amount						
			Recovery	=	107.84%	
35) Dibromofluoromethane	7.58	113	263261	51.87	ug/l	0.00
Spiked Amount						
			Recovery	=	103.74%	
50) Toluene-d8	10.08	98	1056213	53.41	ug/l	0.00
Spiked Amount						
			Recovery	=	106.82%	
62) 4-Bromofluorobenzene	12.41	95	329102	44.80	ug/l	0.00
Spiked Amount						
			Recovery	=	89.60%	

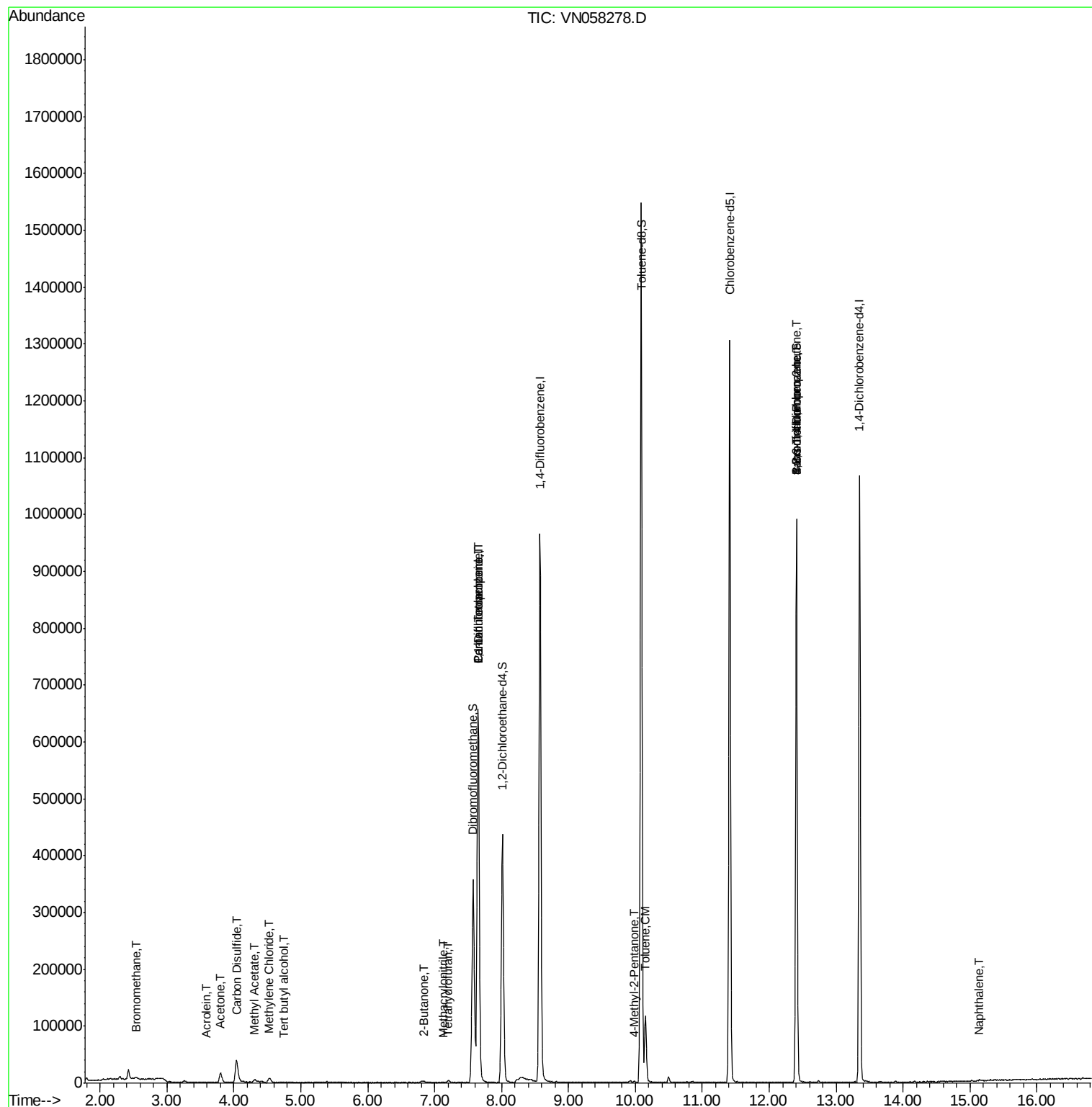
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1196	Below Cal		90
4) Vinyl Chloride	2.17	62	60	Below Cal	#	43
5) Bromomethane	2.53	94	63	0.756	ug/l #	4
6) Chloroethane	2.65	64	34	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	590	0.703	ug/l #	71
13) Acrolein	3.60	56	66	0.531	ug/l #	51
16) Acetone	3.80	43	28820	12.037	ug/l	99
17) Carbon Disulfide	4.03	76	281	0.335	ug/l #	74
18) Methyl Acetate	4.31	43	7216	1.145	ug/l #	88
20) Methylene Chloride	4.53	84	5724	1.149	ug/l #	97
25) 2-Butanone	6.84	43	4165	1.277	ug/l #	83
29) Tetrahydrofuran	7.19	42	1355	0.674	ug/l #	67
31) Cyclohexane	7.65	56	13986	Below Cal	#	21
36) 1,1-Dichloropropene	7.65	75	44316	7.361	ug/l #	51
38) Carbon Tetrachloride	7.65	117	52061	8.602	ug/l #	15
41) Methacrylonitrile	7.14	41	68	0.932	ug/l #	100
51) 4-Methyl-2-Pentanone	9.98	43	1922	0.310	ug/l #	37
52) Toluene	10.15	92	48857	4.239	ug/l	99
71) Bromoform	12.41	173	1971	4.141	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	178963	37.073	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	178963	103.363	ug/l #	5
95) Naphthalene	15.14	128	2578	0.200	ug/l #	84

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

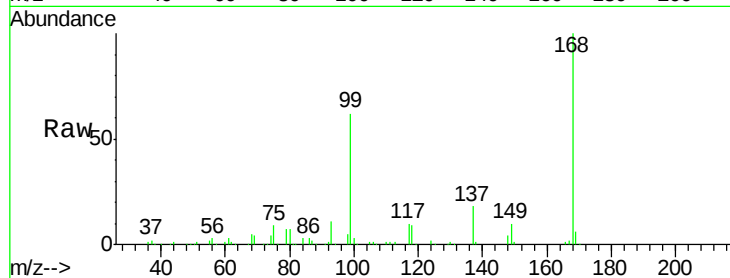
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 506434

Ion Ratio Lower Upper

168 100

99 62.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

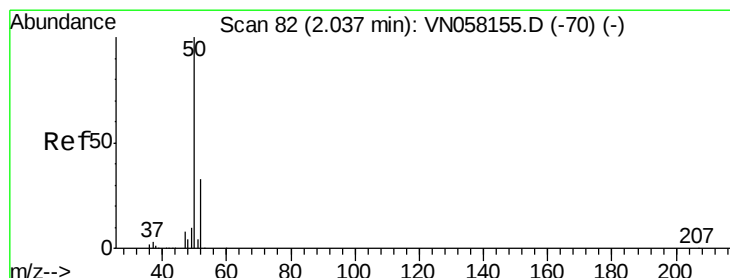
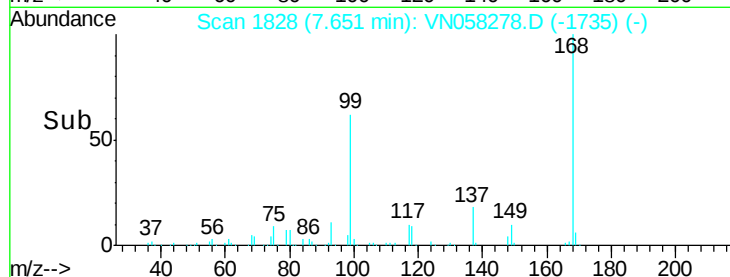
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058278.D

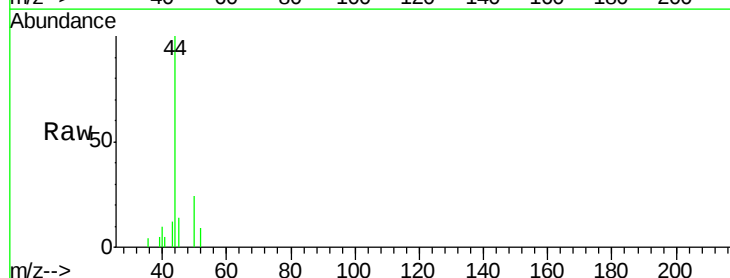
Acq: 23 Sep 2019 10:00

Tgt Ion: 50 Resp: 1196

Ion Ratio Lower Upper

50 100

52 38.5 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

1000

800

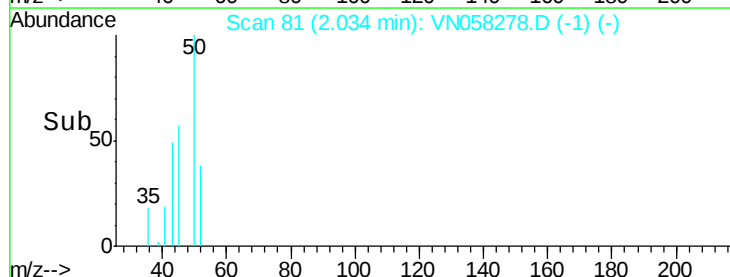
600

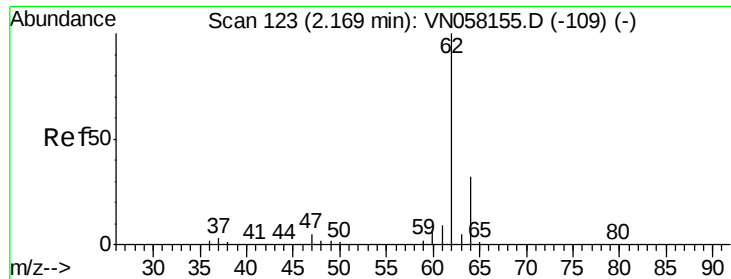
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

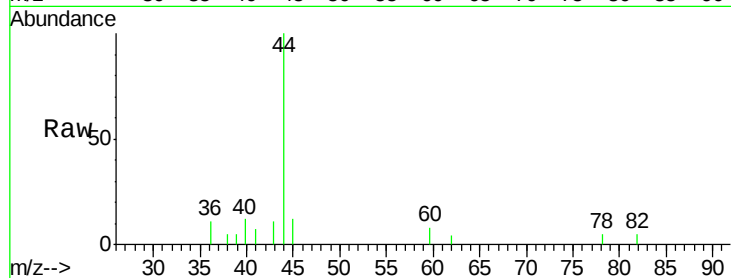
ClientSampled :

Tot Ion: 62 Resp: 60

Ion Ratio Lower Upper

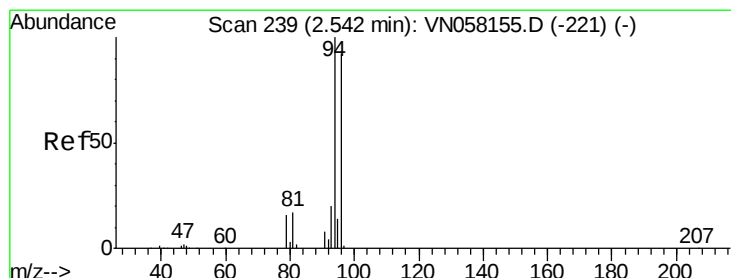
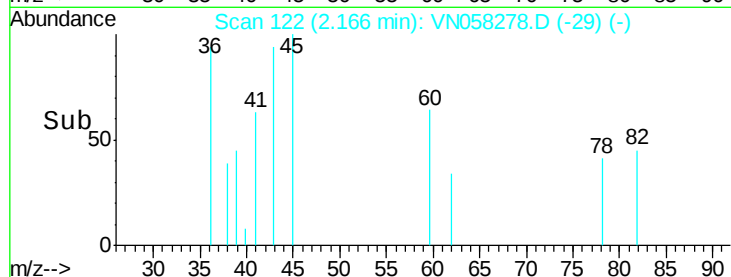
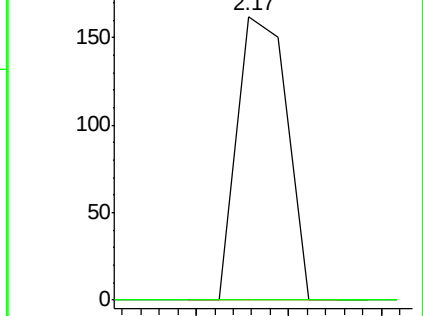
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.756 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.01 min

Lab File: VN058278.D

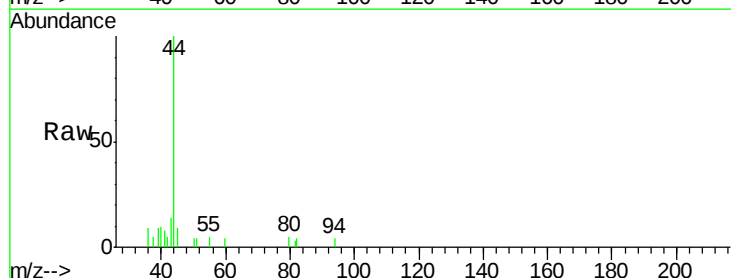
Acq: 23 Sep 2019 10:00

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

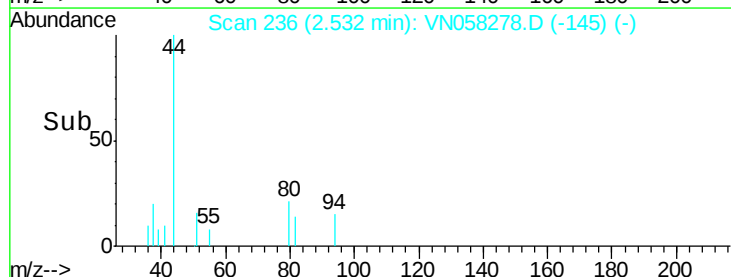
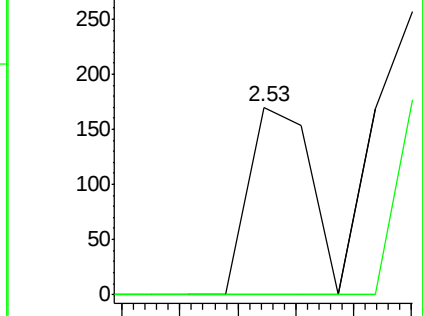
94 100

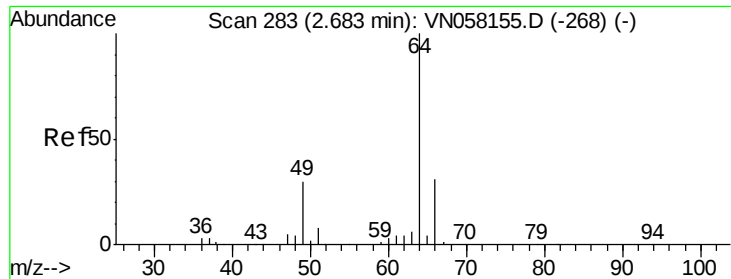
96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.65 min Scan# 274

Delta R.T. -0.03 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

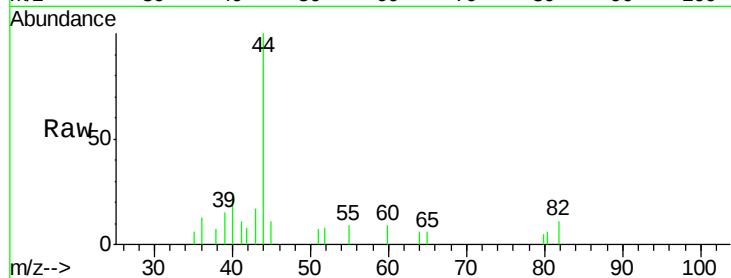
ClientSampleId :

Tot Ion: 64 Resp: 34

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN058155.D (-268) (-)

Ion 65.90 (65.60 to 66.60): VN058155.D (-268) (-)

2.65

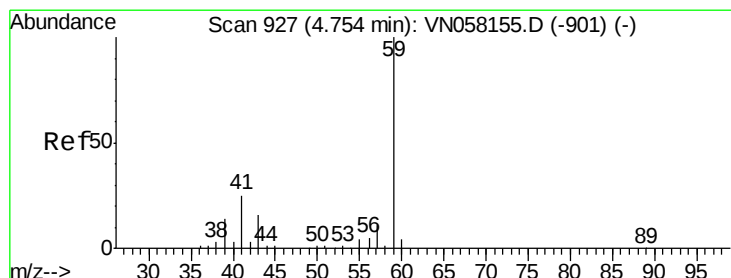
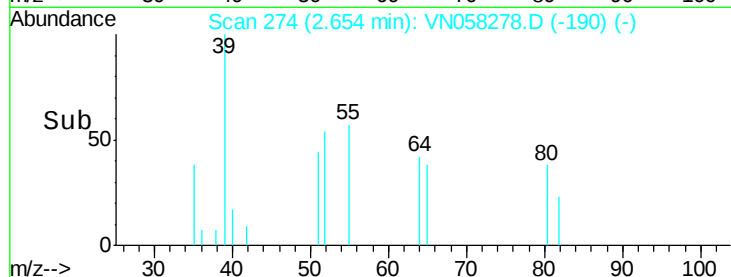
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 0.703 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN058278.D

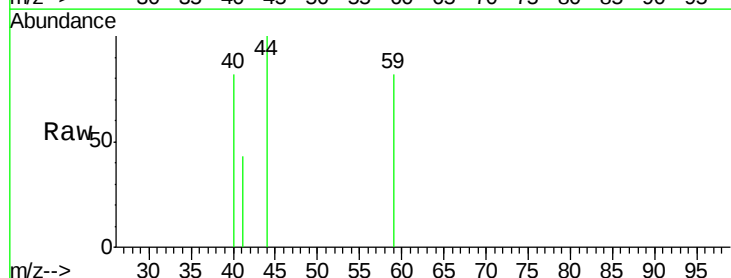
Acq: 23 Sep 2019 10:00

Tgt Ion: 59 Resp: 590

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN058155.D (-901) (-)

Ion 57.00 (56.70 to 57.70): VN058155.D (-901) (-)

4.75

400

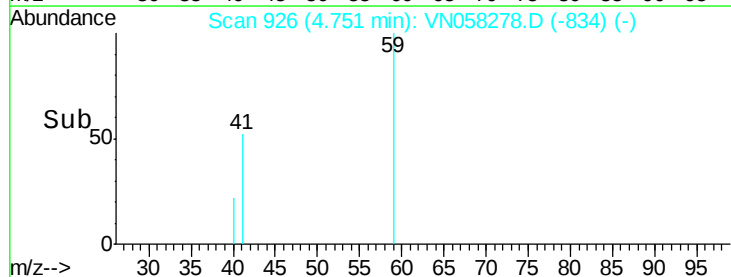
300

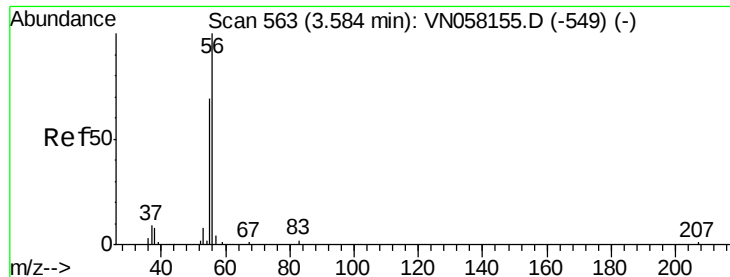
200

100

0

Time-->





#13

Acrolein

Concen: 0.531 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.02 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

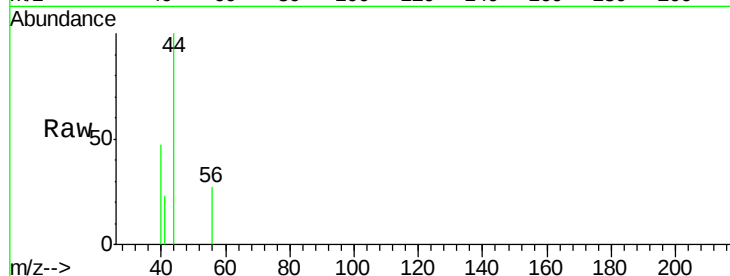
ClientSampleId :

Tot Ion: 56 Resp: 66

Ion Ratio Lower Upper

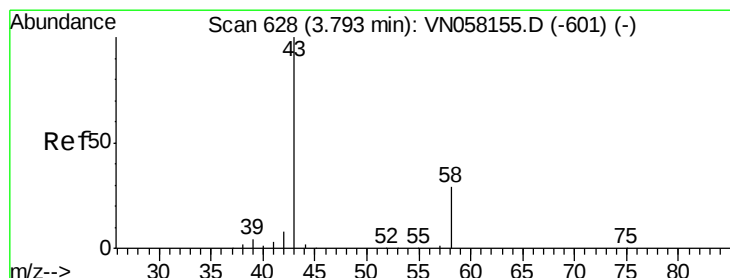
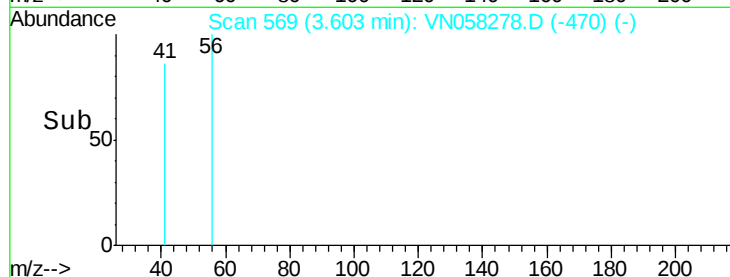
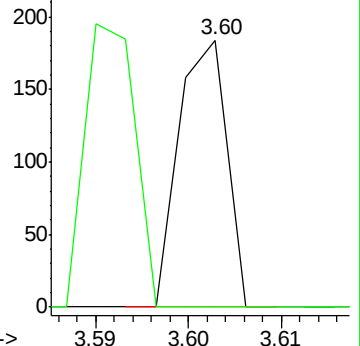
56 100

55 110.6 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 12.037 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058278.D

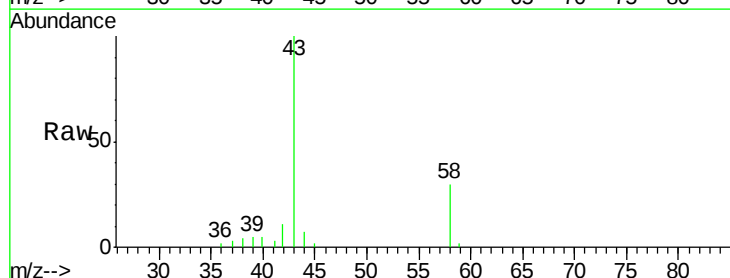
Acq: 23 Sep 2019 10:00

Tgt Ion: 43 Resp: 28820

Ion Ratio Lower Upper

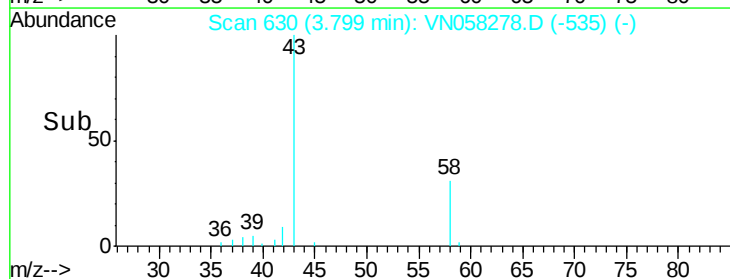
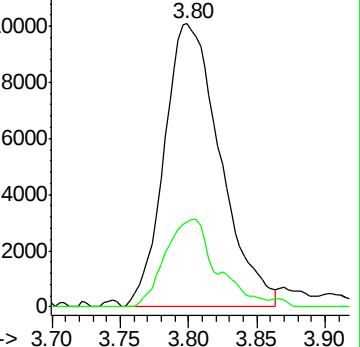
43 100

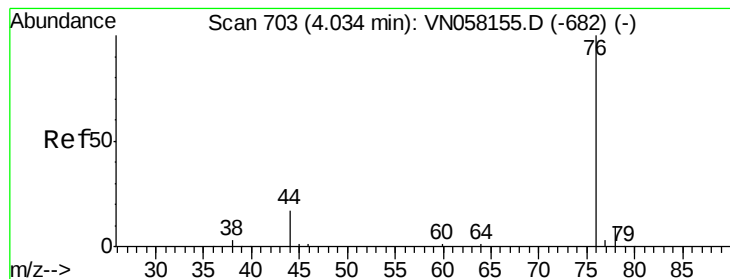
58 30.0 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.335 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

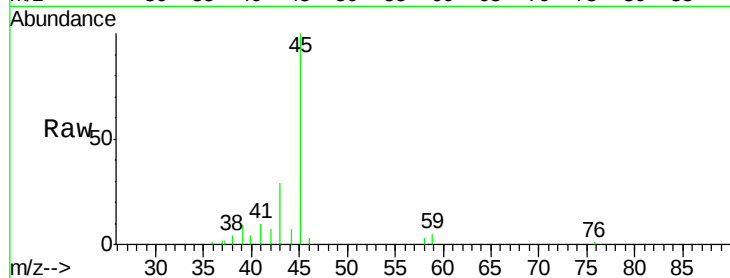
ClientSampled :

Tot Ion: 76 Resp: 281

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

250

200

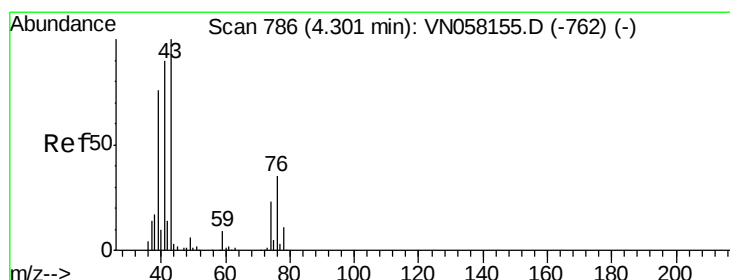
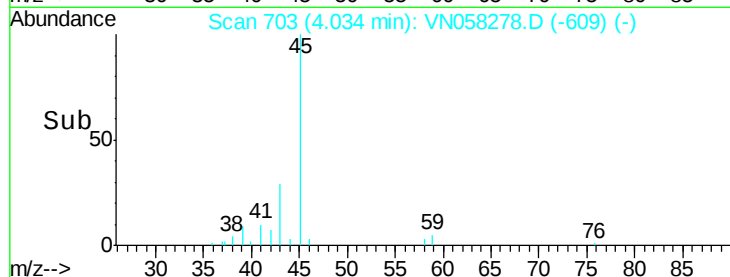
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 1.145 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058278.D

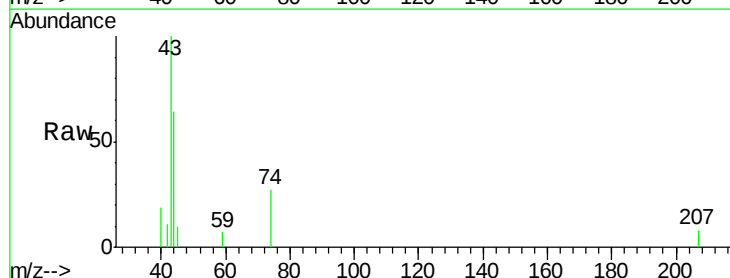
Acq: 23 Sep 2019 10:00

Tgt Ion: 43 Resp: 7216

Ion Ratio Lower Upper

43 100

74 16.9 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

2500

2000

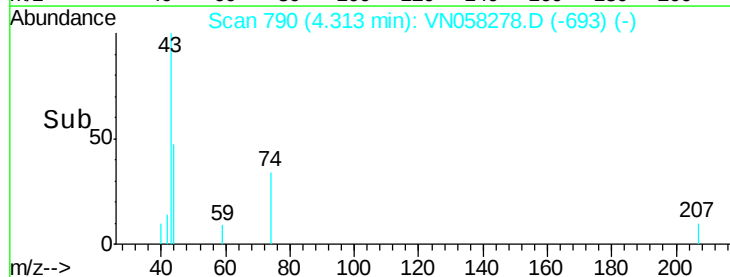
1500

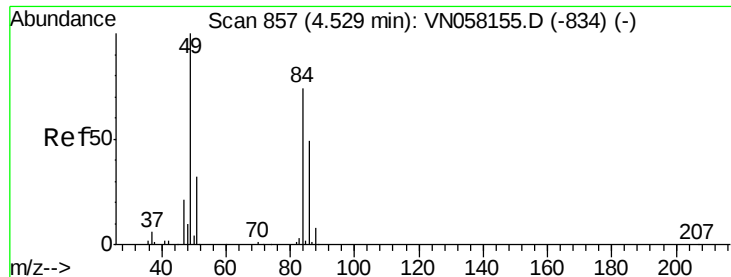
1000

500

0

Time-->

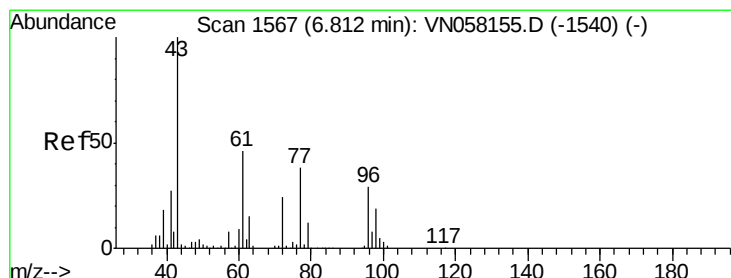
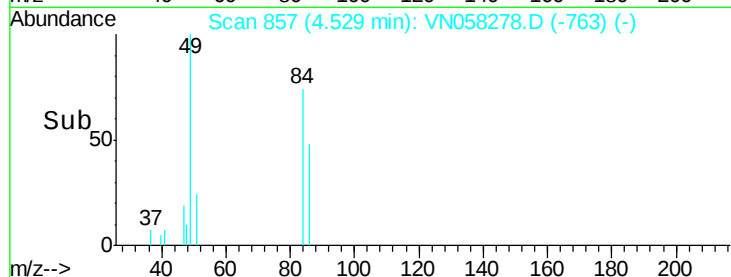
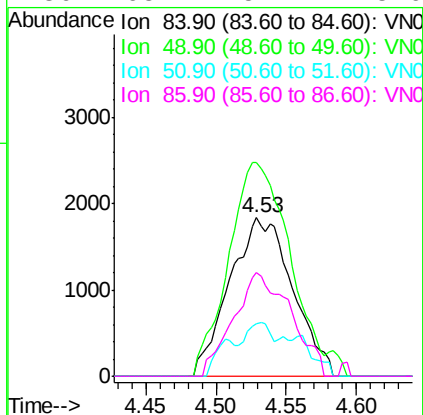
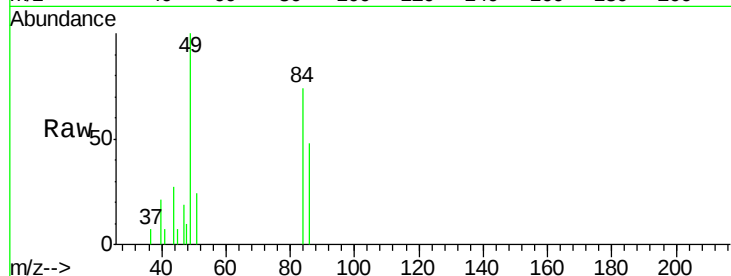




#20
Methvlene Chloride
Concen: 1.149 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

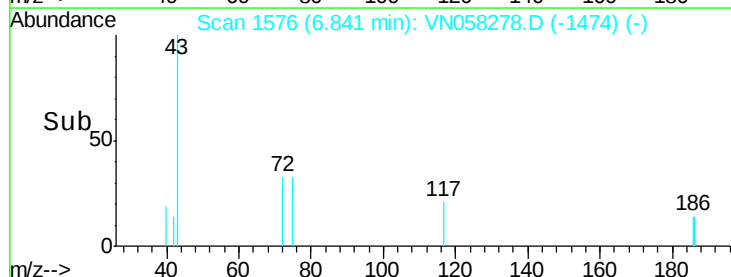
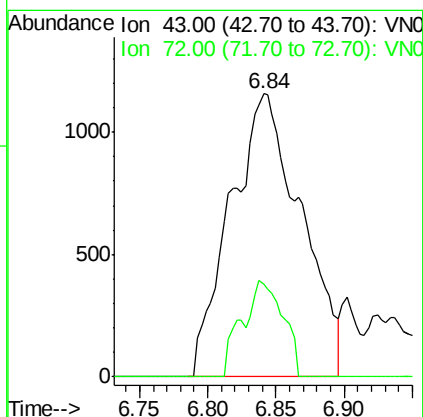
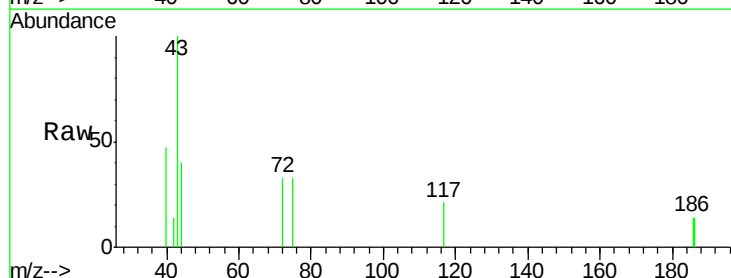
Instrument :
MSVOA_N
ClientSampled :

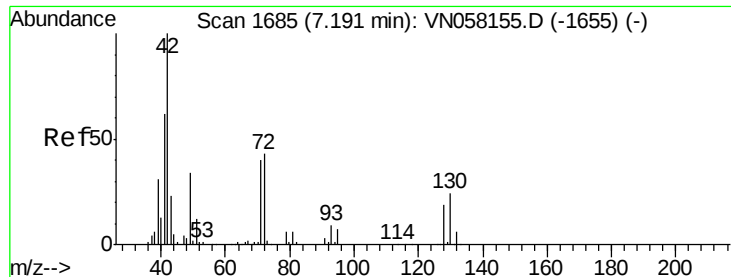
Tot Ion	84	Resp	5724
Ion	Ratio	Lower	Upper
84	100		
49	134.6	107.5	161.3
51	32.8	33.9	50.9#
86	65.2	52.4	78.6



#25
2-Butanone
Concen: 1.277 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.03 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

Tgt Ion	43	Resp	4165
Ion	Ratio	Lower	Upper
43	100		
72	32.7	19.5	29.3#

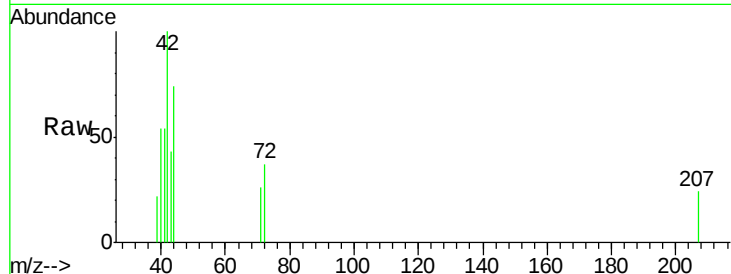




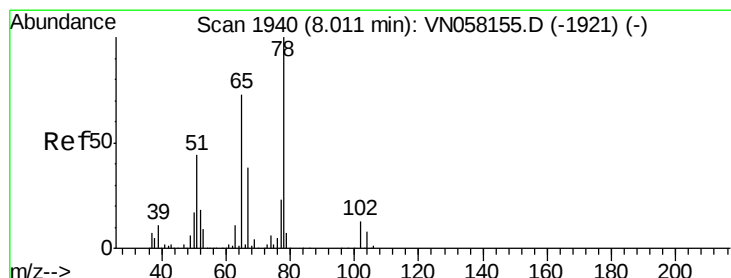
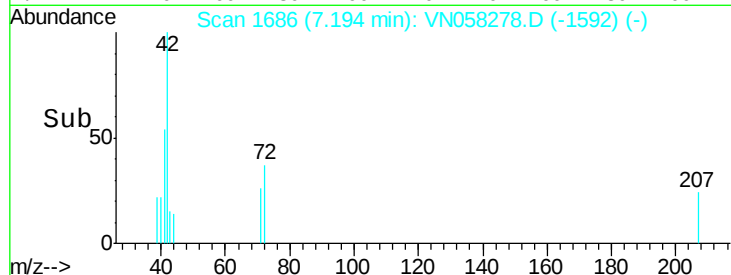
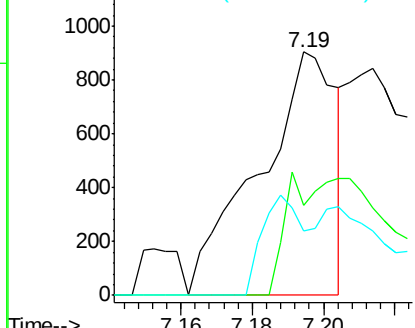
#29
Tetrahydrofuran
Concen: 0.674 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 1355
Ion Ratio Lower Upper
42 100
72 64.1 33.8 50.6#
71 20.4 31.4 47.0#

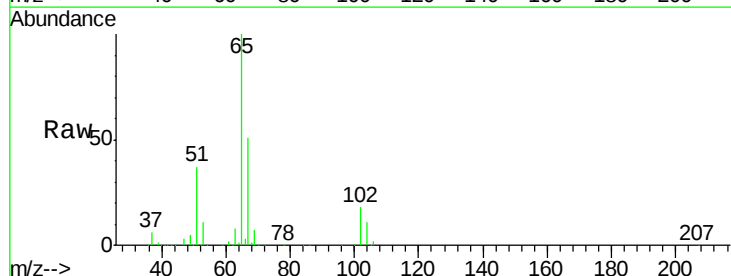


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

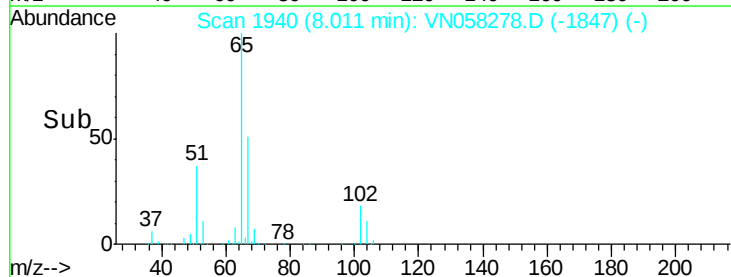
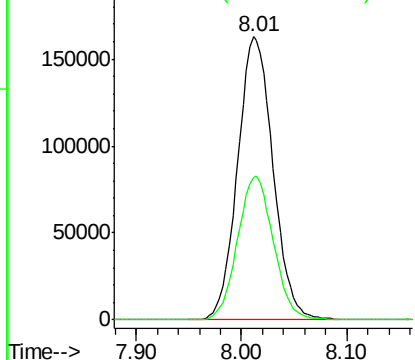


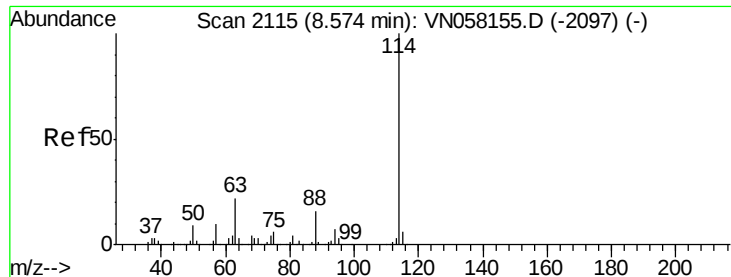
#33
1,2-Dichloroethane-d4
Concen: 53.918 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

Tgt Ion: 65 Resp: 380317
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.4



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

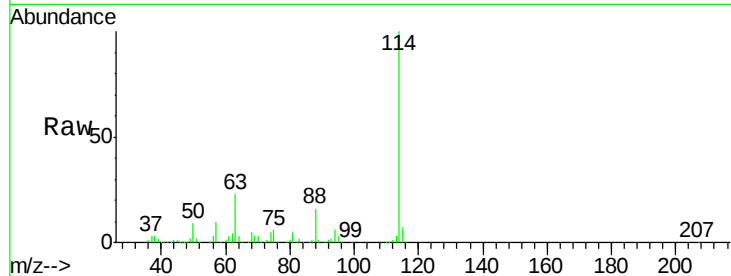




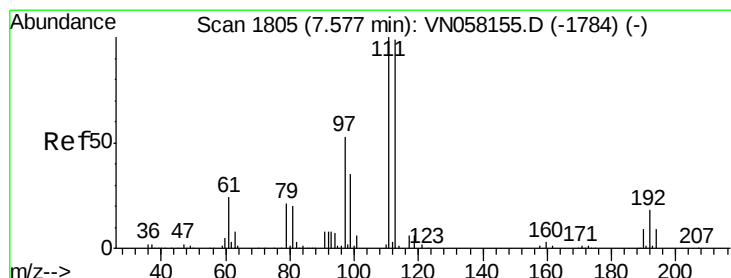
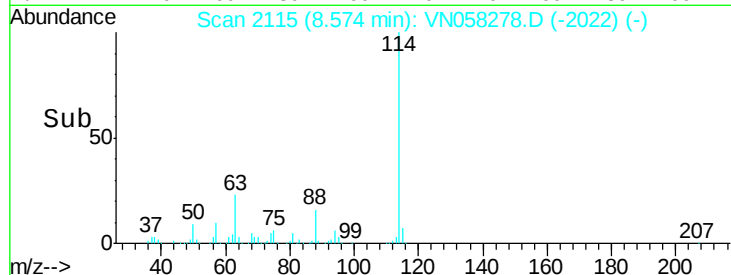
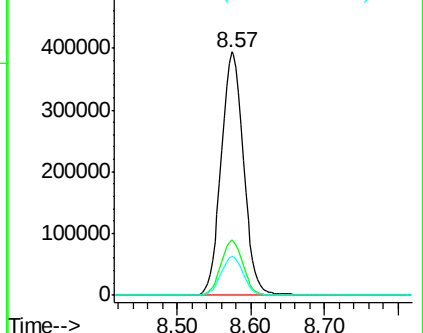
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058278.D
 Acq: 23 Sep 2019 10:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.2
88	16.0	0.0	31.6

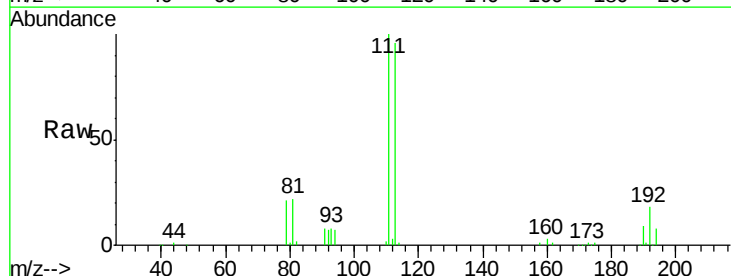


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

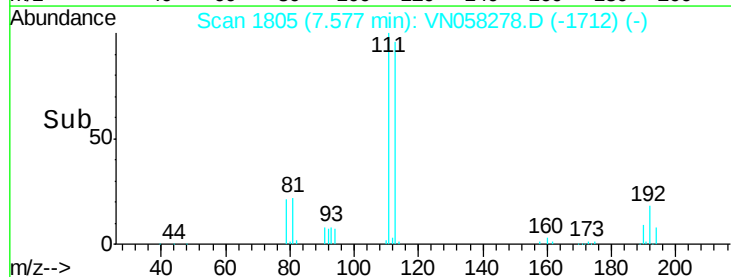
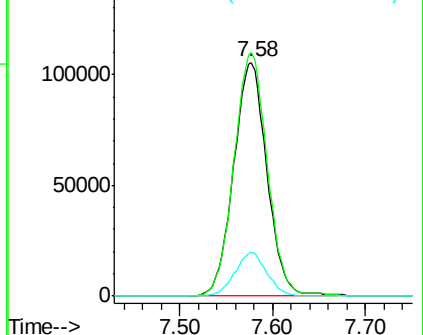


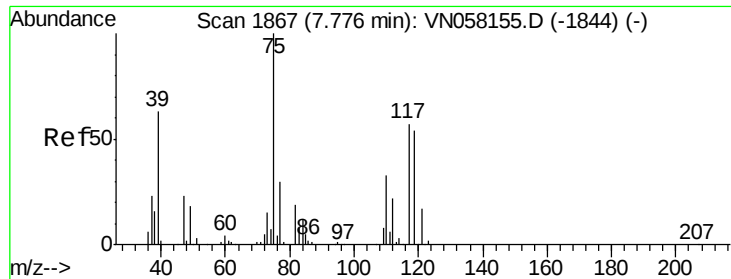
#35
 Dibromofluoromethane
 Concen: 51.870 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058278.D
 Acq: 23 Sep 2019 10:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	18.0	14.5	21.7



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

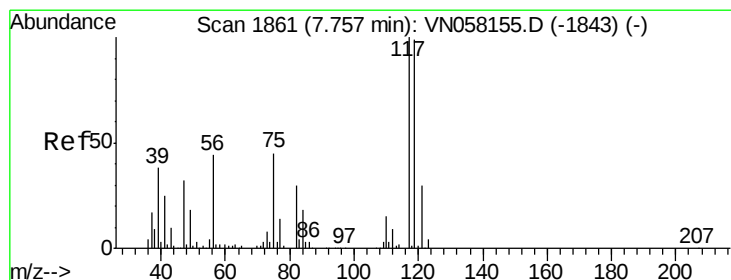
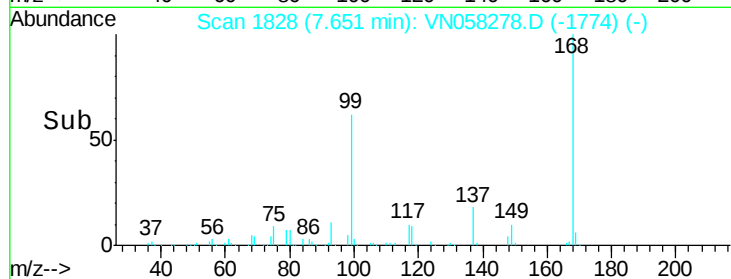
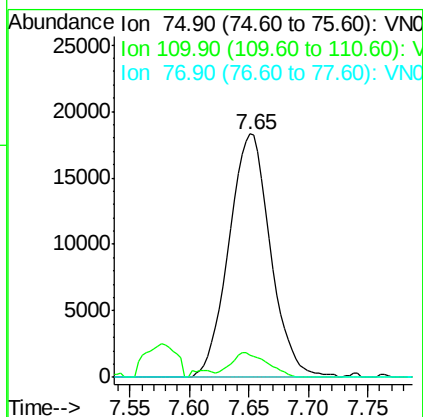
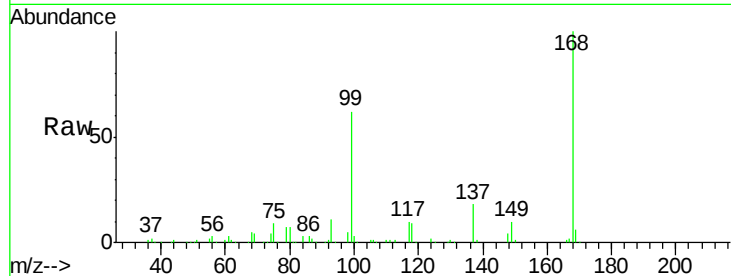




#36
 1,1-Dichloropropene
 Concen: 7.361 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058278.D
 Acq: 23 Sep 2019 10:00

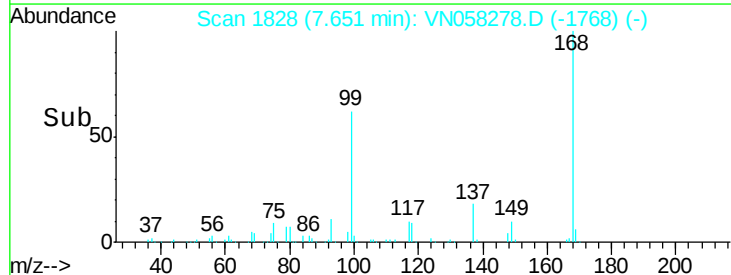
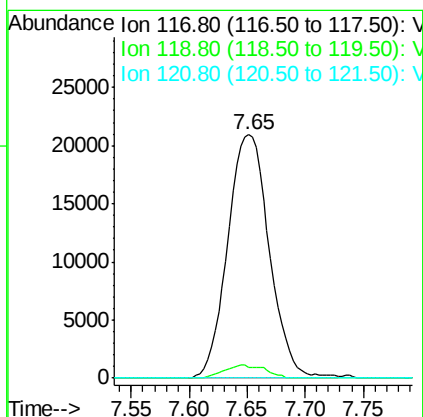
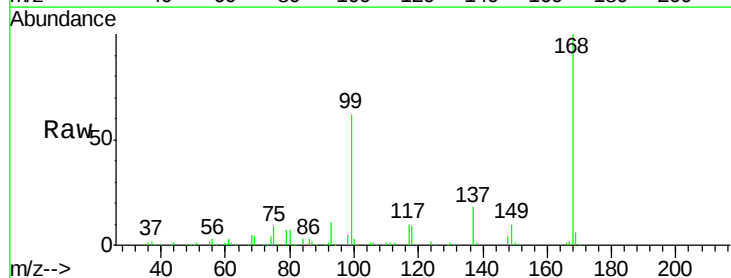
Instrument :
 MSVOA_N
 ClientSampleId :

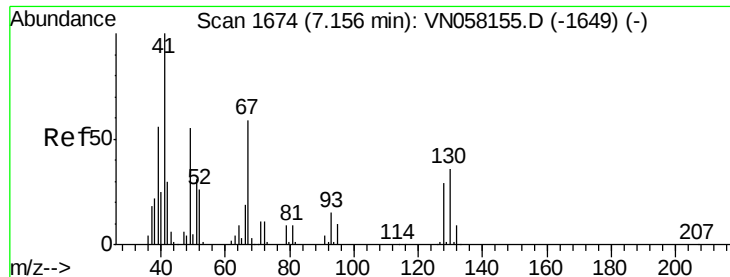
Tot Ion	75	Resp	44316
Ion Ratio	Lower	Upper	
75	100		
110	8.9	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.602 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058278.D
 Acq: 23 Sep 2019 10:00

Tgt Ion	117	Resp	52061
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.6	78.6	117.8#
121	0.0	24.1	36.1#

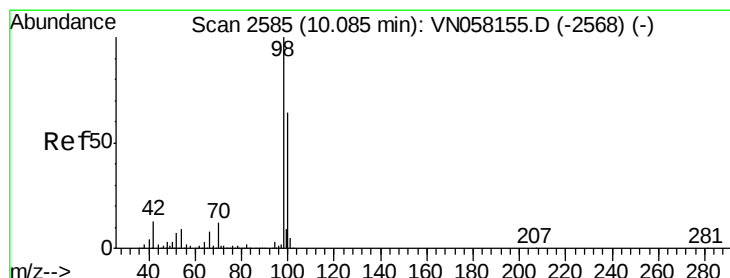
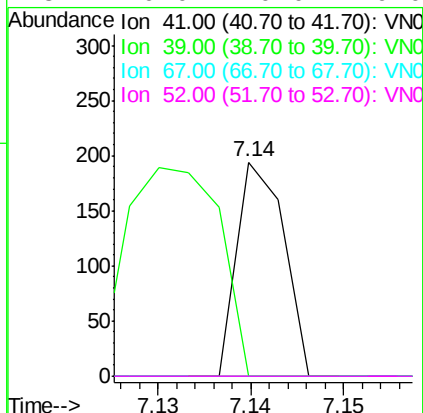
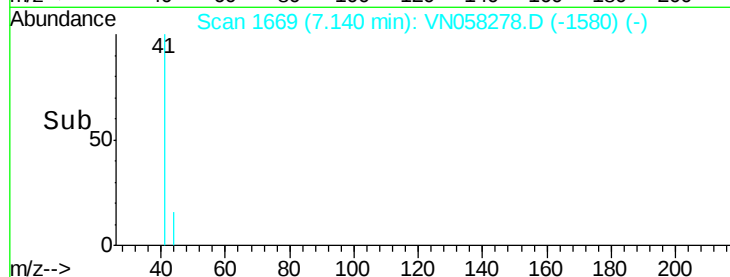
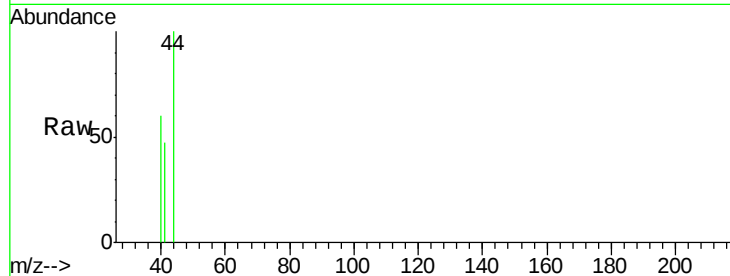




#41
Methacrylonitrile
Concen: 0.932 ug/l
RT: 7.14 min Scan# 1669
Delta R.T. -0.02 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

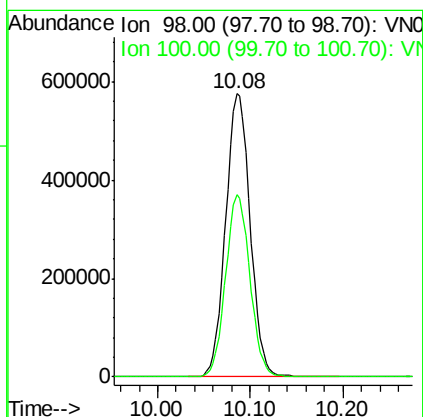
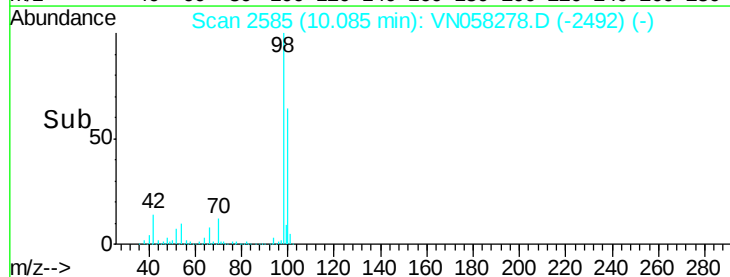
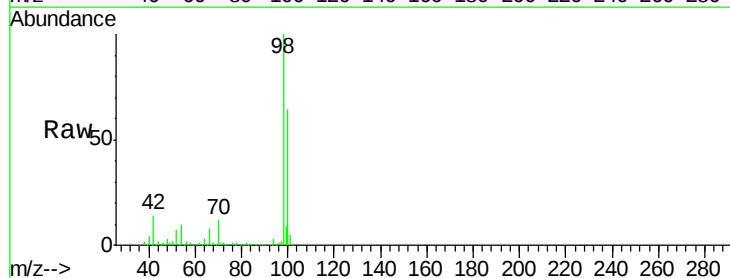
Instrument :
MSVOA_N
ClientSampleId :

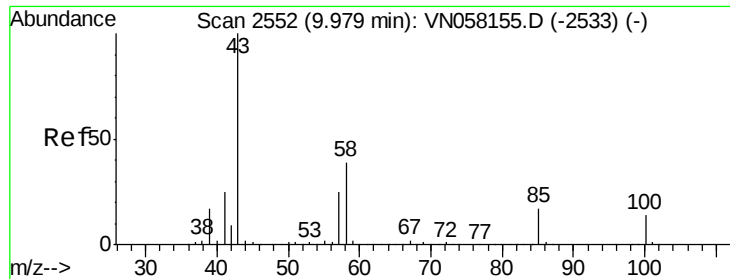
Tot Ion:	41	Resp:	68
Ion	Ratio	Lower	Upper
41	100		
39	192.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 53.413 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058278.D
Acq: 23 Sep 2019 10:00

Tgt Ion:	98	Resp:	1056213
Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 0.310 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

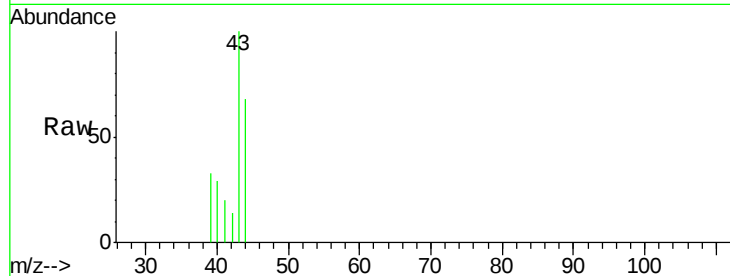
ClientSampled :

Tot Ion: 43 Resp: 1922

Ion Ratio Lower Upper

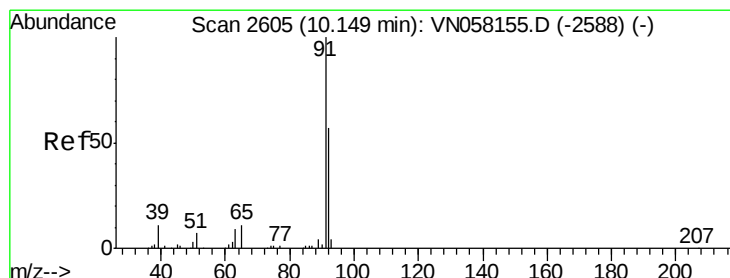
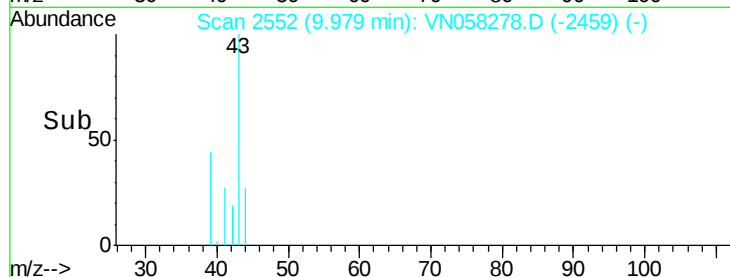
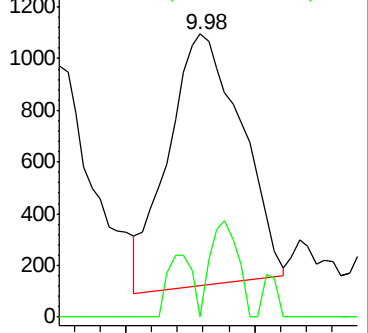
43 100

58 0.0 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.239 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058278.D

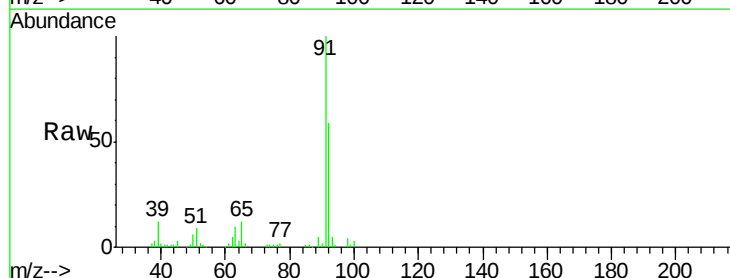
Acq: 23 Sep 2019 10:00

Tgt Ion: 92 Resp: 48857

Ion Ratio Lower Upper

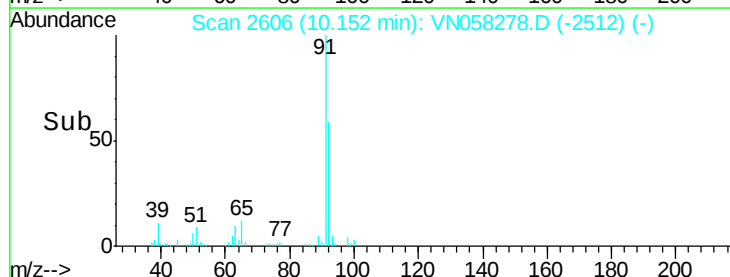
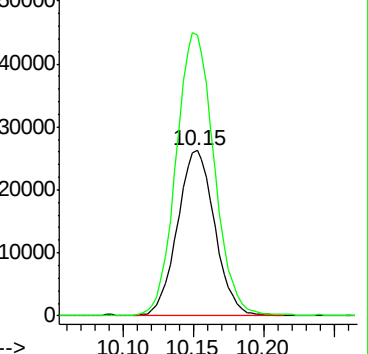
92 100

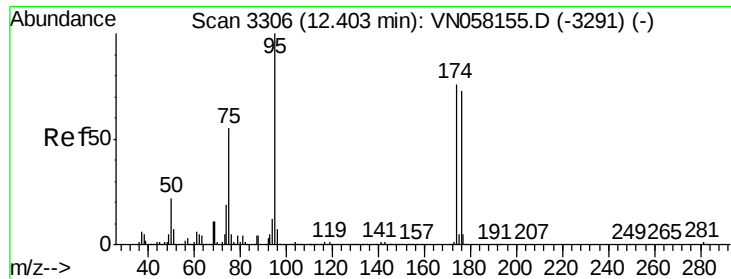
91 174.0 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.803 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

ClientSampleId :

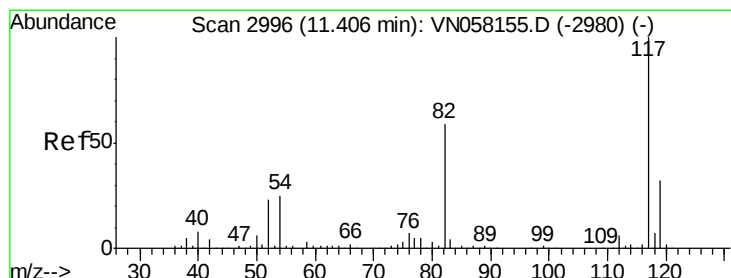
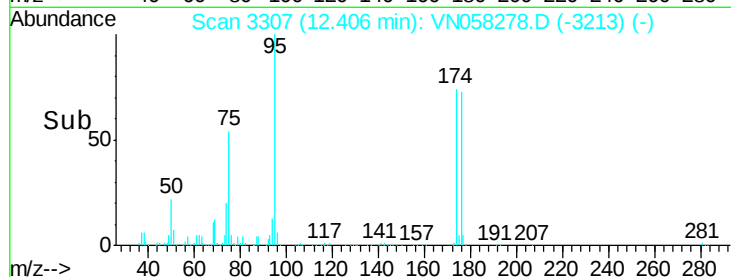
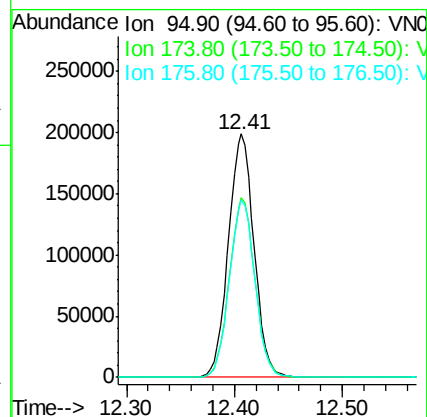
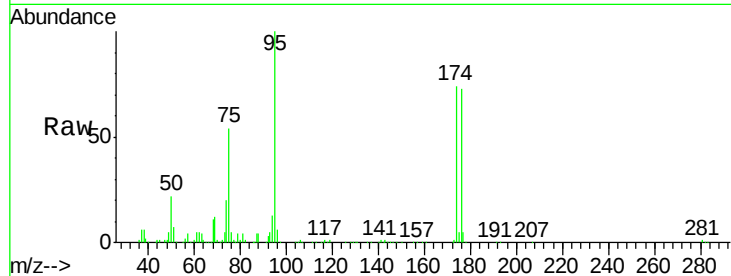
Tot Ion: 95 Resp: 329102

Ion Ratio Lower Upper

95 100

174 73.8 0.0 152.2

176 72.8 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

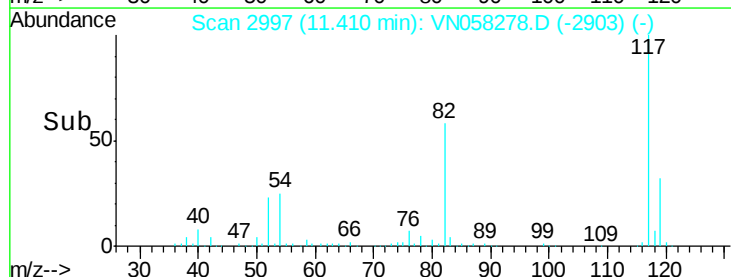
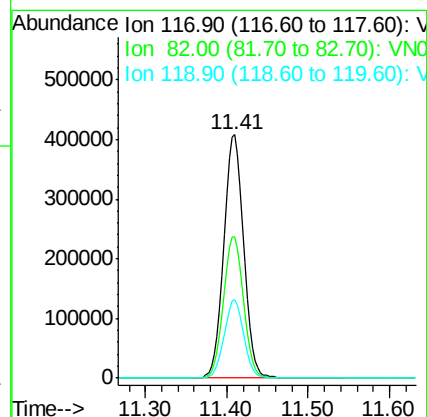
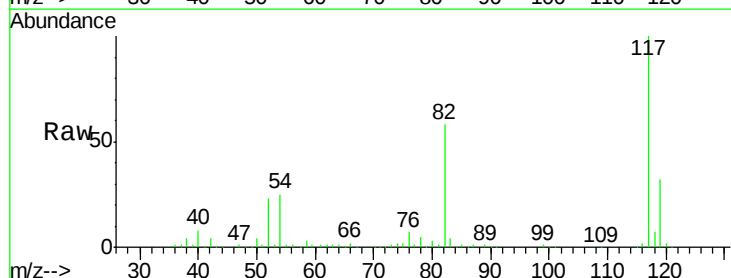
Tgt Ion: 117 Resp: 708556

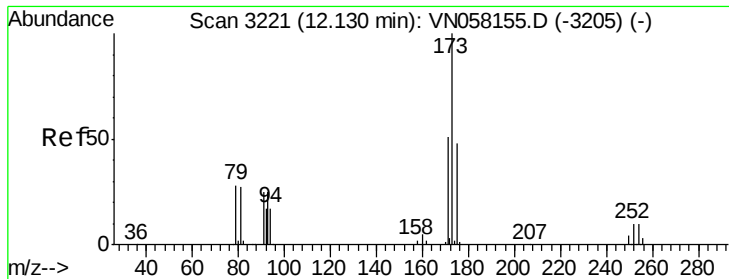
Ion Ratio Lower Upper

117 100

82 58.0 46.9 70.3

119 32.2 25.3 37.9





#71

Bromoform

Concen: 4.141 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

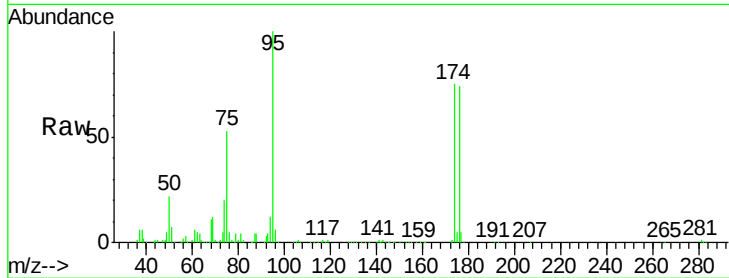
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:173 Resp: 1971

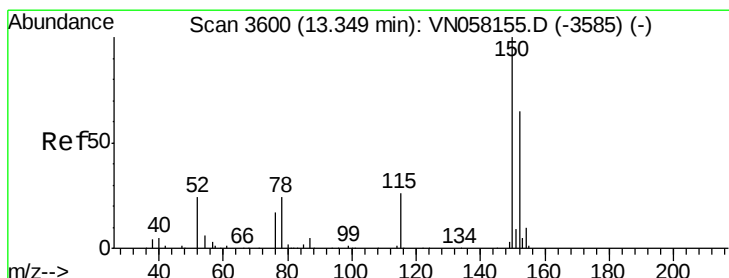
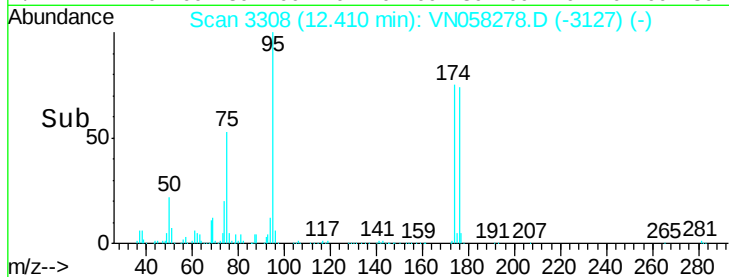
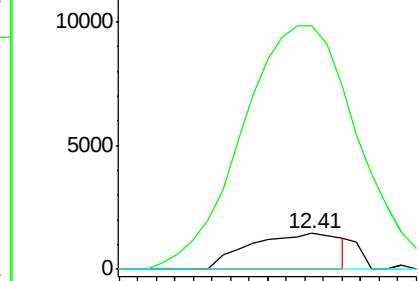
Ion	Ratio	Lower	Upper
173	100		
175	719.2	24.2	72.6#
254	0.0	0.1	0.1#



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# 3601

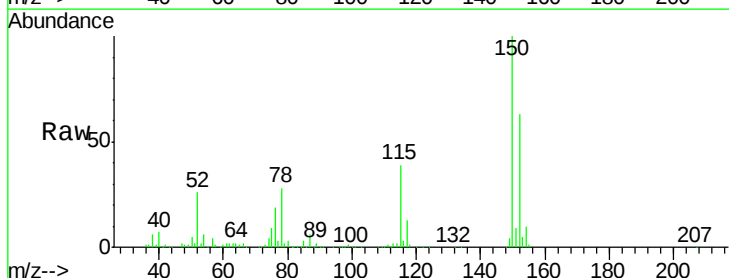
Delta R.T. 0.00 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Tgt Ion:152 Resp: 269733

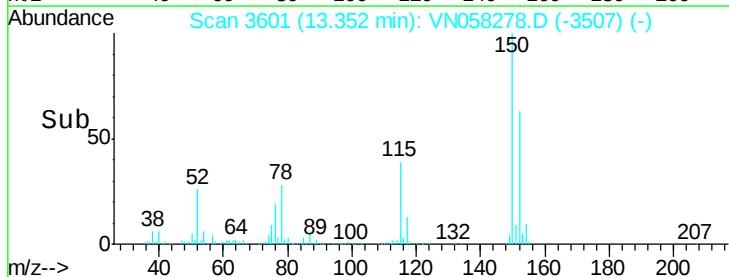
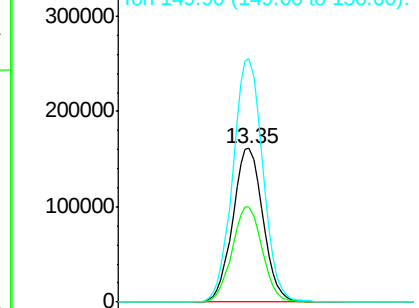
Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.1	90.3
150	157.5	0.0	346.4

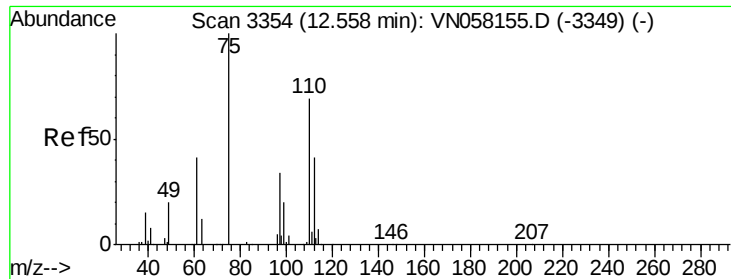


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.073 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

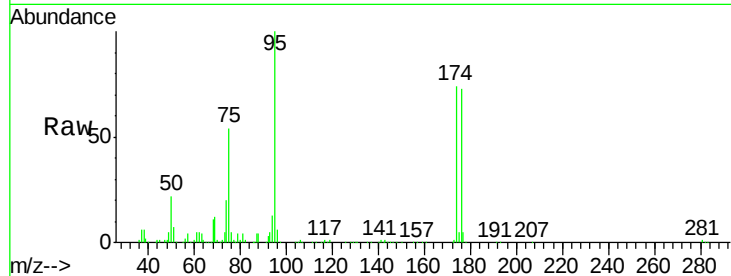
ClientSampled :

Tot Ion: 75 Resp: 178963

Ion Ratio Lower Upper

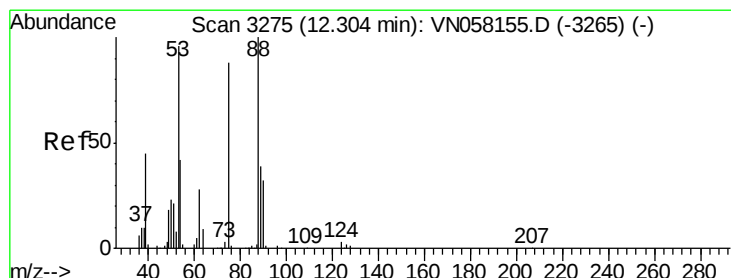
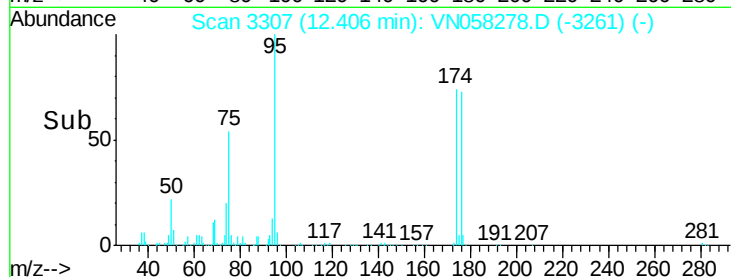
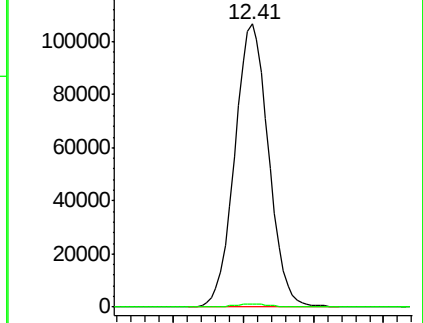
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 103.363 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

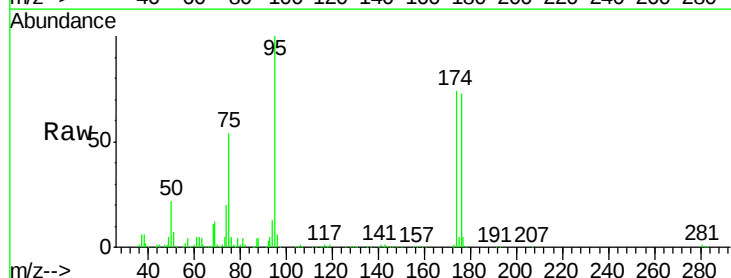
Tgt Ion: 75 Resp: 178963

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

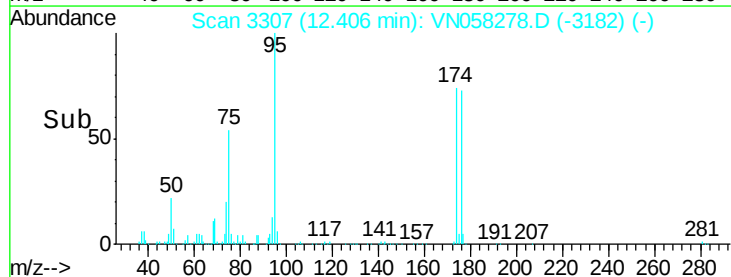
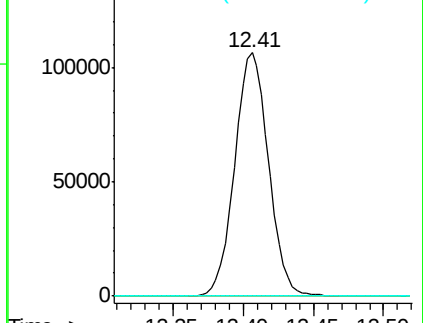
89 0.0 36.2 54.2#

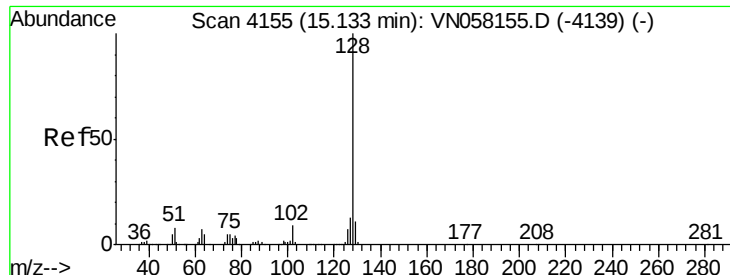


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 0.200 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

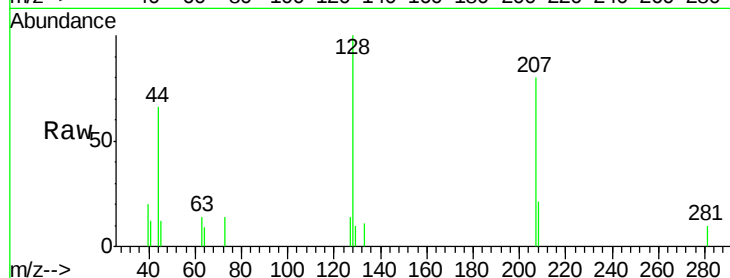
Lab File: VN058278.D

Acq: 23 Sep 2019 10:00

Instrument :

MSVOA_N

ClientSampleId :



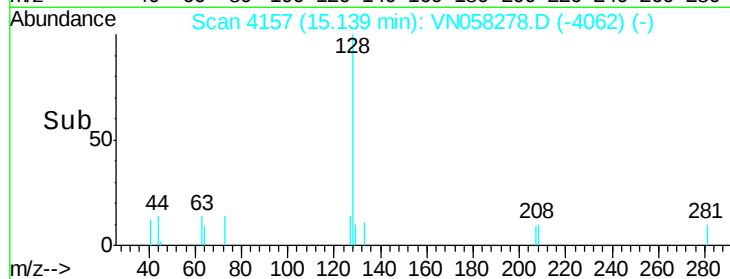
Tot Ion:128 Resp: 2578

Ion Ratio Lower Upper

128 100

127 7.3 10.2 15.2#

129 3.5 8.6 12.8#



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

