

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081119\
 Data File : VN057191.D
 Acq On : 11 Aug 2019 16:41
 Operator : JC/SP
 Sample : K4227-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1S-O-(0)

Quant Time: Aug 12 05:56:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

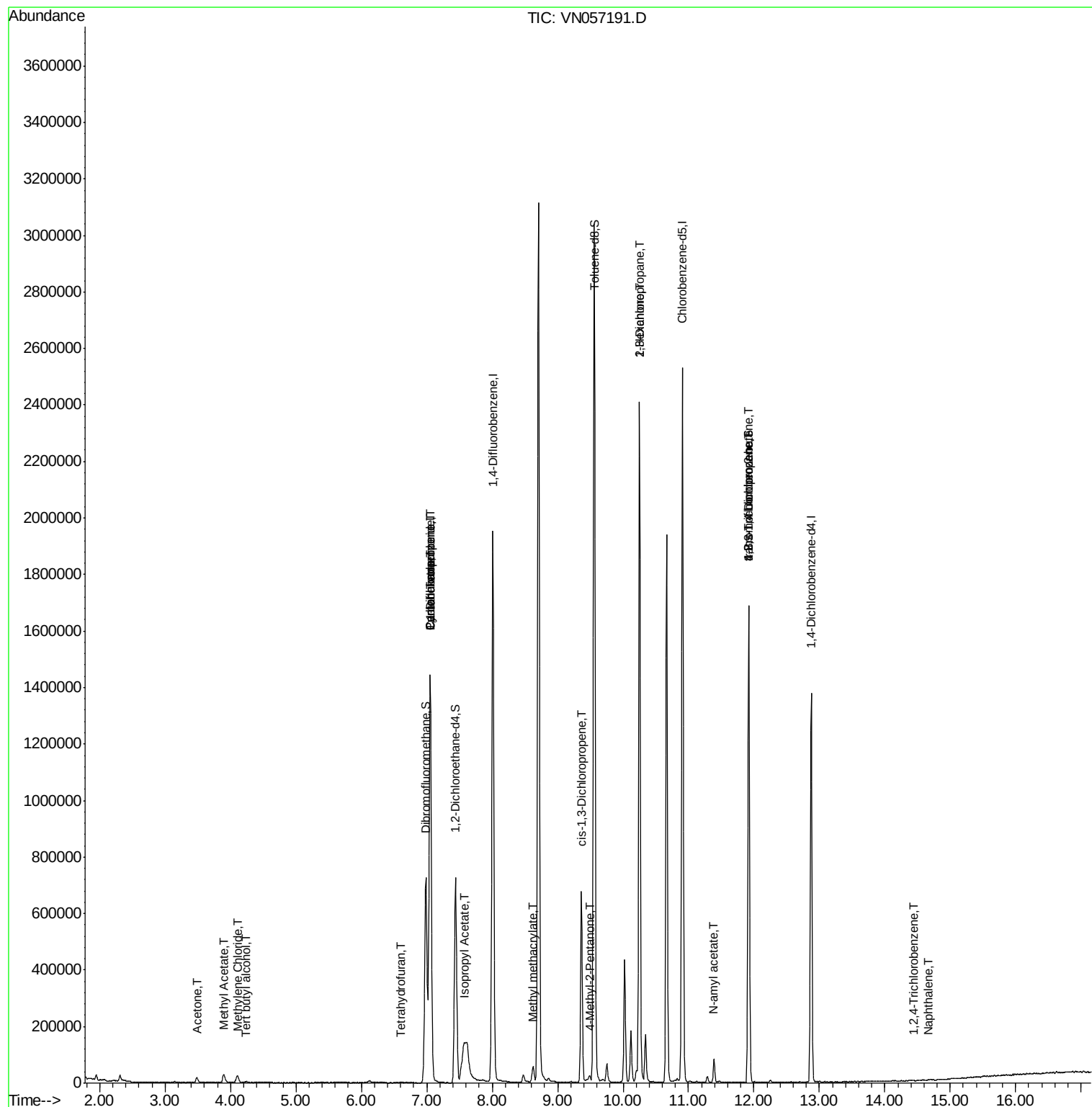
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1385932	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1948625	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1628918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	408295	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	648512	45.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.00%	
35) Dibromofluoromethane	6.98	113	591714	48.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.78%	
50) Toluene-d8	9.56	98	2278302	48.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	11.92	95	587860	39.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.00%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.24	59	3966	1.955	ug/l #	73
16) Acetone	3.48	43	24660	5.729	ug/l	100
18) Methyl Acetate	3.90	43	52890	3.513	ug/l	100
20) Methylene Chloride	4.10	84	18706	1.317	ug/l #	84
29) Tetrahydrofuran	6.61	42	1840	0.415	ug/l #	81
31) Cyclohexane	7.05	56	19770	0.956	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	84373	5.259	ug/l #	48
37) Ethyl Acetate	6.29	43	79	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	115962	6.935	ug/l #	17
43) Isopropyl Acetate	7.57	43	172926	7.662	ug/l #	65
48) Methyl methacrylate	8.62	41	20151	1.893	ug/l #	10
51) 4-Methyl-2-Pentanone	9.49	43	18834	1.434	ug/l #	34
54) cis-1,3-Dichloropropene	9.36	75	135176	6.911	ug/l #	61
57) 1,3-Dichloropropane	10.25	76	26508	1.297	ug/l #	42
59) 2-Hexanone	10.25	43	345973	38.917	ug/l #	49
73) Isopropylbenzene	11.77	105	285	Below Cal	#	48
74) N-amyl acetate	11.39	43	24937	2.410	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	11.91	83	125	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	271608	33.080	ug/l #	100
79) 2-Chlorotoluene	12.19	91	219	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	271608	97.811	ug/l #	14
83) tert-Butylbenzene	12.52	119	241	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.44	180	139	5.951	ug/l #	12
95) Naphthalene	14.67	128	237	2.824	ug/l #	69

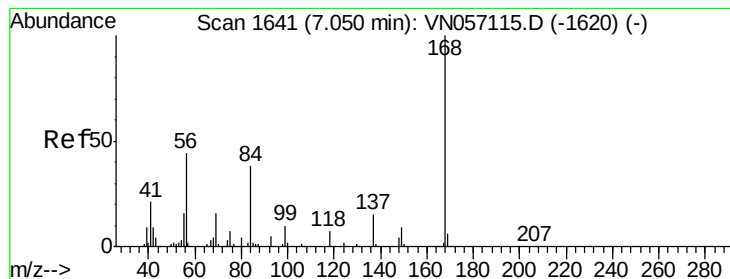
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

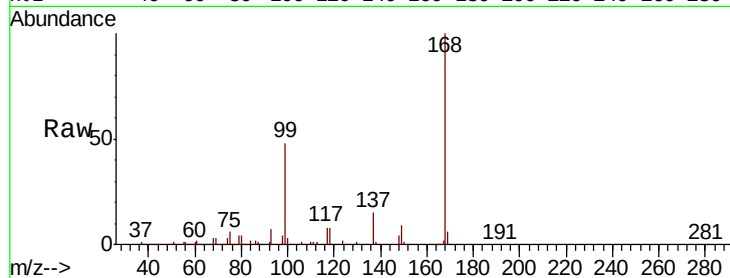
1S-O(0)

Tgt Ion:168 Resp: 1385932

Ion Ratio Lower Upper

168 100

99 47.8 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057191.D (-1548) (-)

Ion 98.90 (98.60 to 99.60): VN057191.D (-1548) (-)

7.05

600000

500000

400000

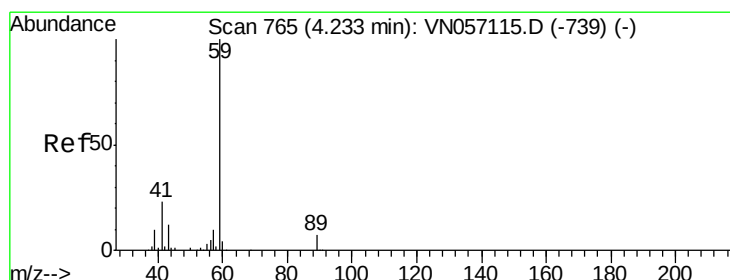
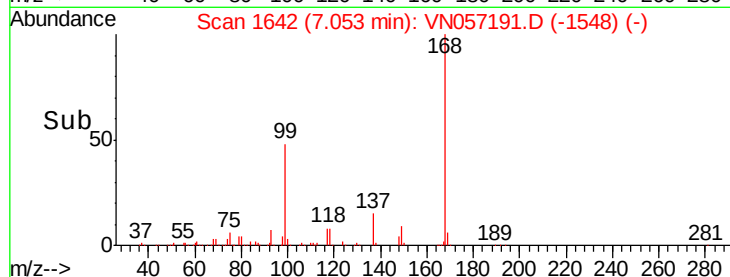
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.955 ug/l

RT: 4.24 min Scan# 767

Delta R.T. 0.01 min

Lab File: VN057191.D

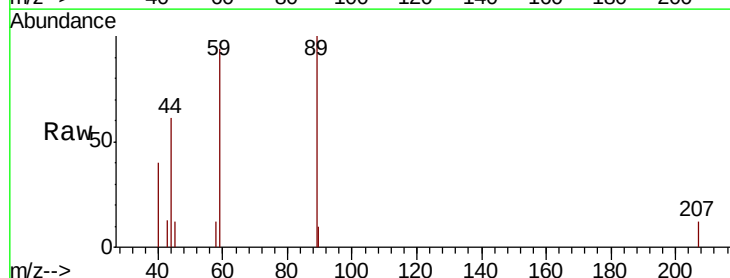
Acq: 11 Aug 2019 16:41

Tgt Ion: 59 Resp: 3966

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN057191.D (-672) (-)

Ion 57.00 (56.70 to 57.70): VN057191.D (-672) (-)

4.24

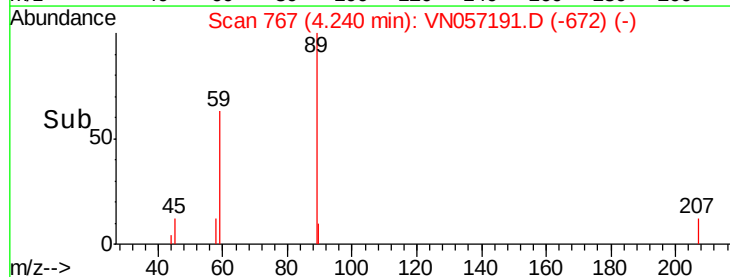
1500

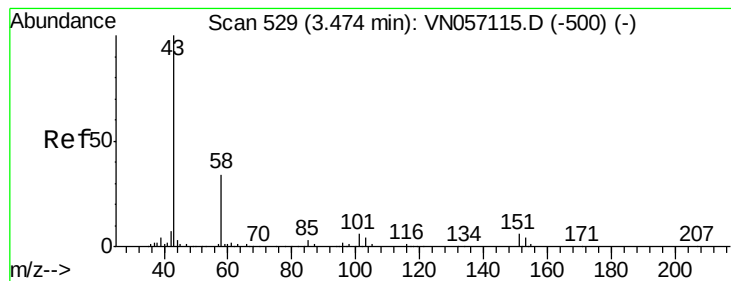
1000

500

0

Time--> 4.15 4.20 4.25 4.30





#16

Acetone

Concen: 5.729 ug/l

RT: 3.48 min Scan# 531

Delta R.T. 0.01 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampled :

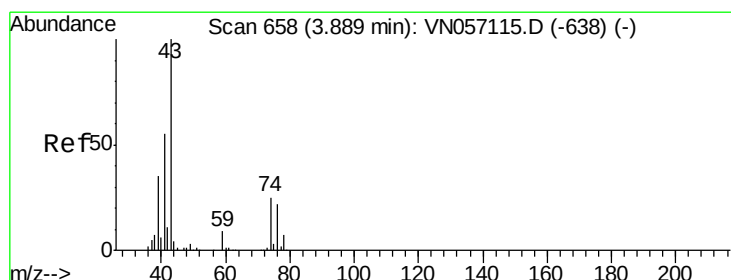
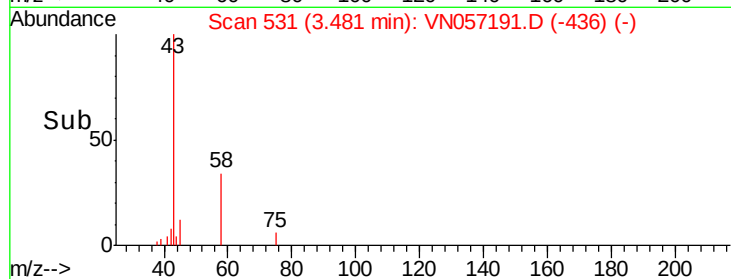
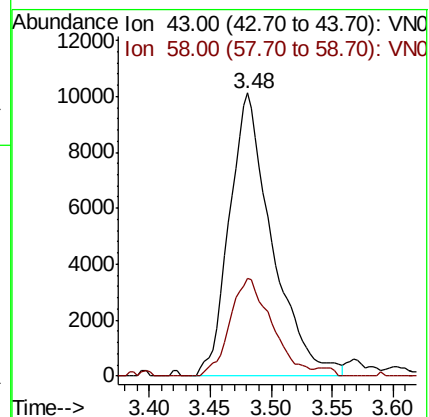
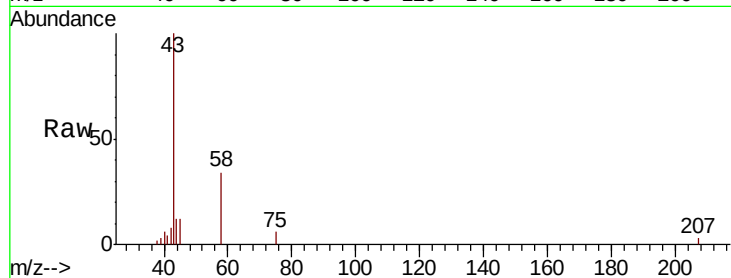
1S-O(0)

Tgt Ion: 43 Resp: 24660

Ion Ratio Lower Upper

43 100

58 34.4 27.4 41.2



#18

Methyl Acetate

Concen: 3.513 ug/l

RT: 3.90 min Scan# 661

Delta R.T. 0.01 min

Lab File: VN057191.D

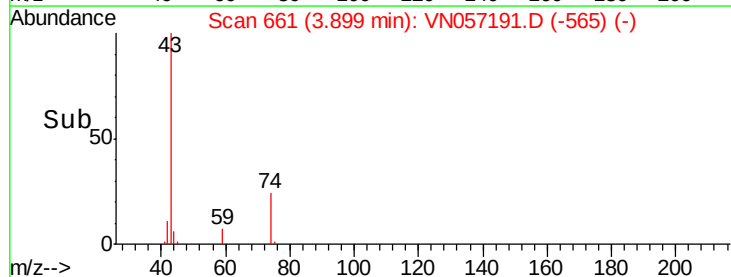
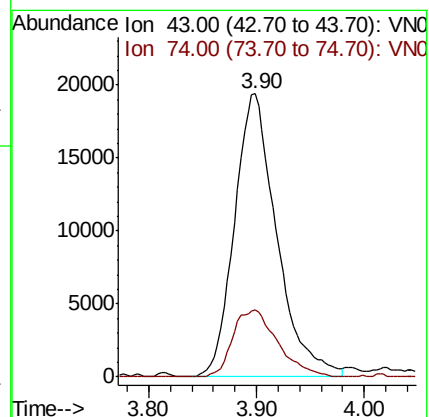
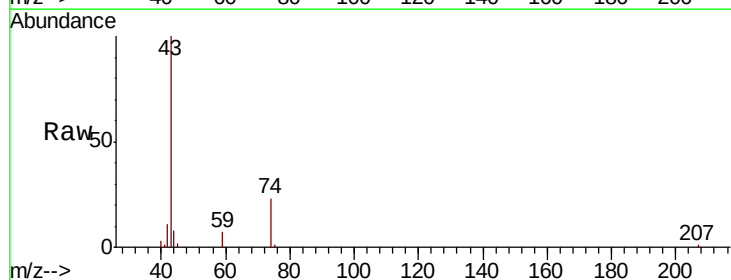
Acq: 11 Aug 2019 16:41

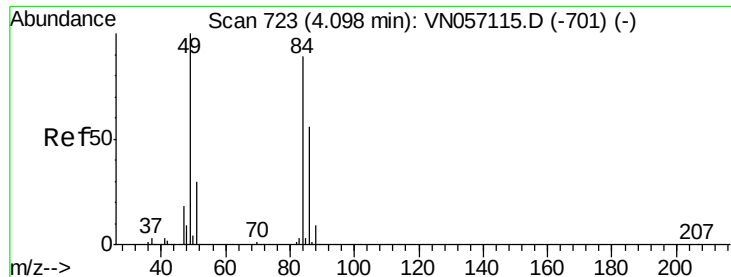
Tgt Ion: 43 Resp: 52890

Ion Ratio Lower Upper

43 100

74 25.1 20.2 30.4

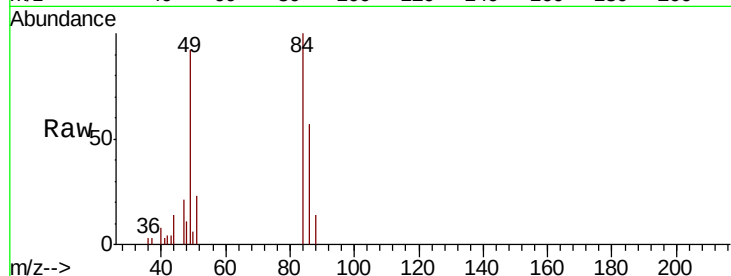




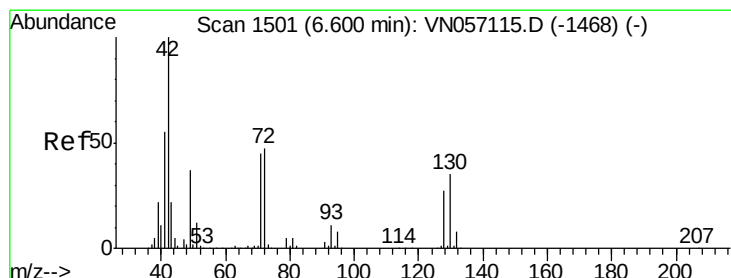
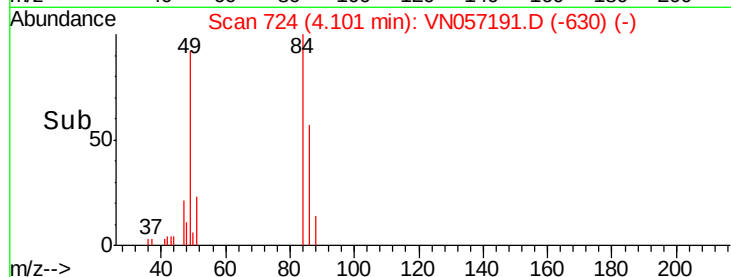
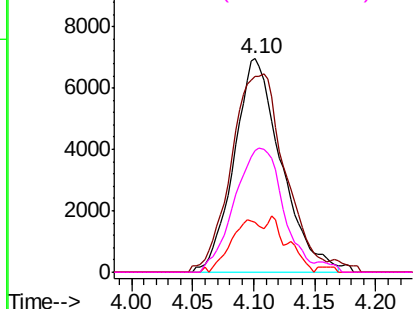
#20
Methylene Chloride
Concen: 1.317 ug/l
RT: 4.10 min Scan# 724
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Instrument :
MSVOA_N
ClientSampled :
1S-O-(0)

Tgt Ion:	84	Resp:	18706
Ion	Ratio	Lower	Upper
84	100		
49	91.8	89.5	134.3
51	23.3	27.2	40.8#
86	57.0	50.6	75.8

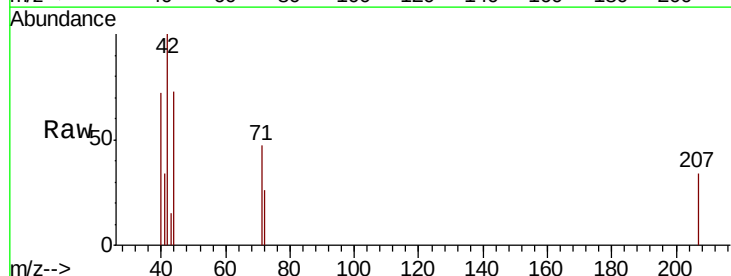


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

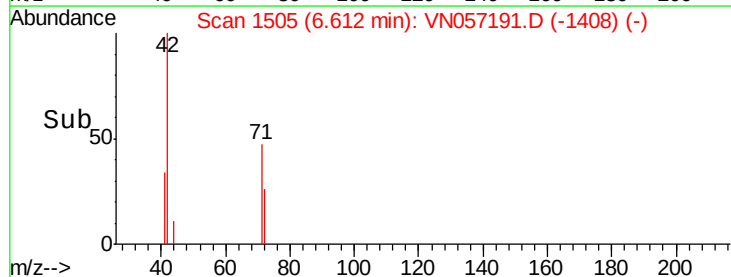
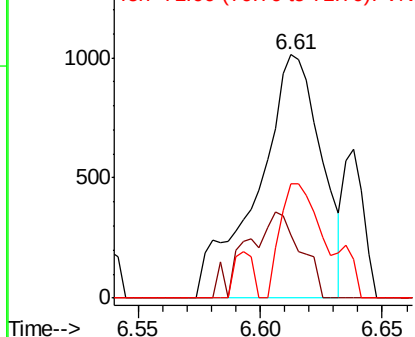


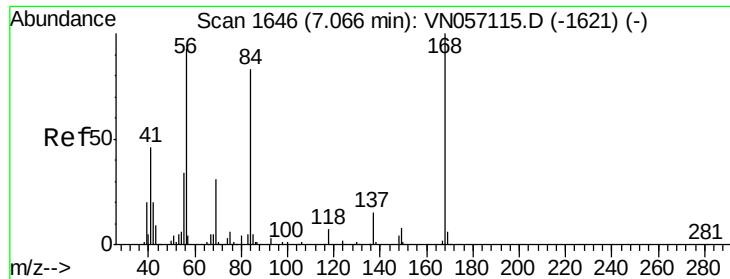
#29
Tetrahydrofuran
Concen: 0.415 ug/l
RT: 6.61 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Tgt Ion:	42	Resp:	1840
Ion	Ratio	Lower	Upper
42	100		
72	29.9	37.1	55.7#
71	34.7	34.8	52.2#



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

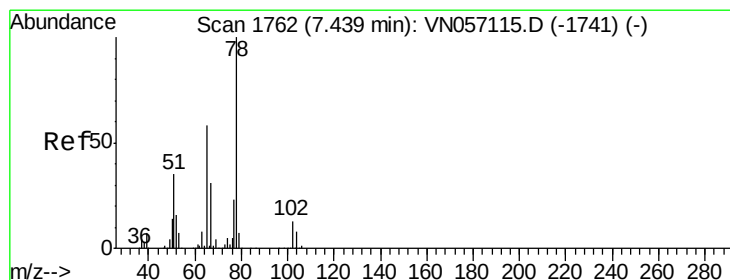
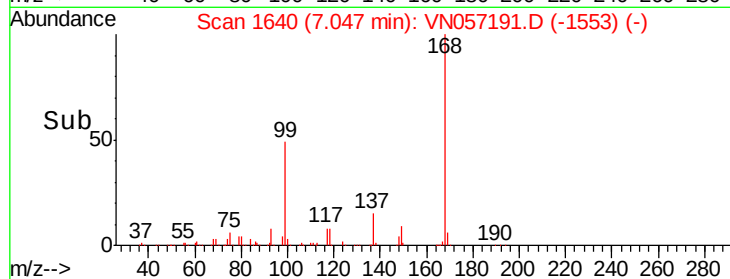
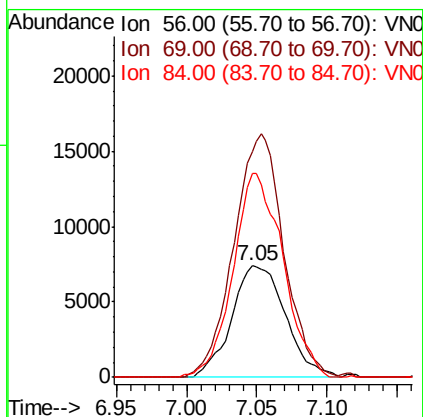
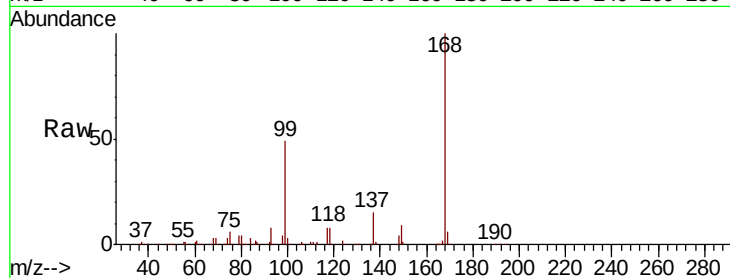




#31
Cyclohexane
Concen: 0.956 ug/l
RT: 7.05 min Scan# 1640
Delta R.T. -0.02 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

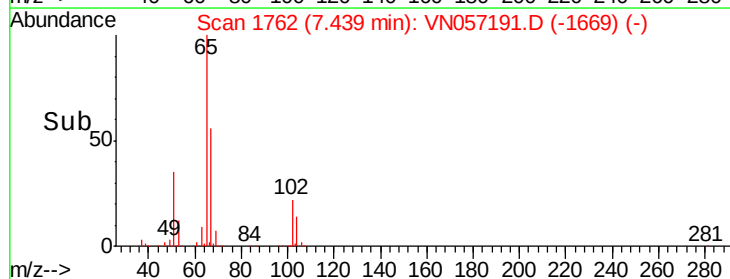
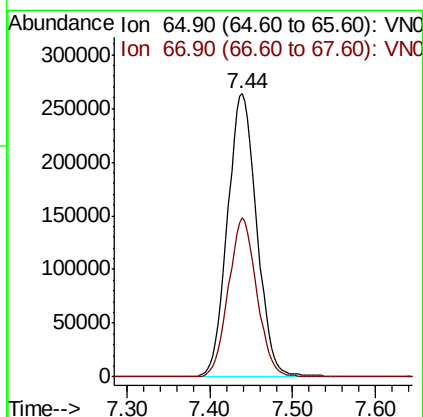
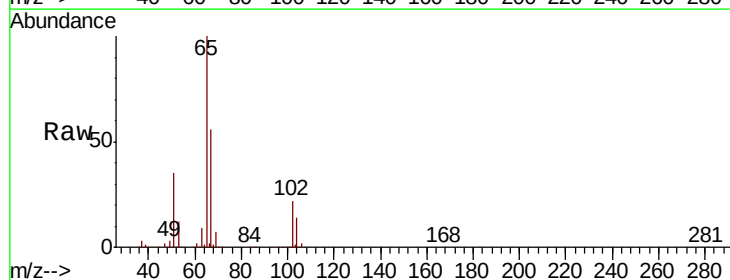
Instrument :
MSVOA_N
ClientSampleId :
1S-O-(0)

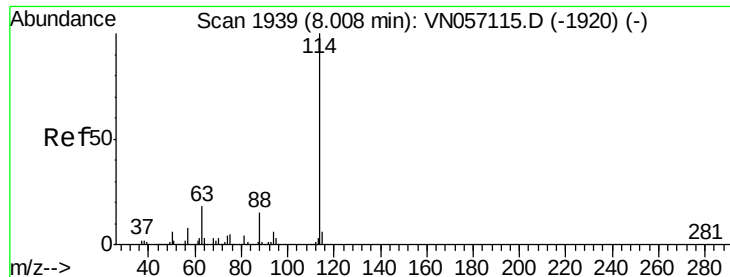
Tgt Ion: 56 Resp: 19770
Ion Ratio Lower Upper
56 100
69 200.7 26.9 40.3#
84 183.1 71.9 107.9#



#33
1,2-Dichloroethane-d4
Concen: 45.499 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Tgt Ion: 65 Resp: 648512
Ion Ratio Lower Upper
65 100
67 54.4 0.0 108.2

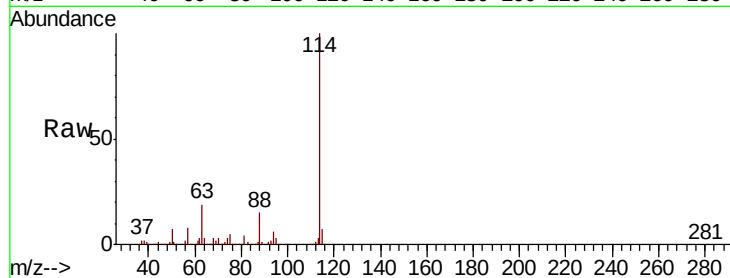




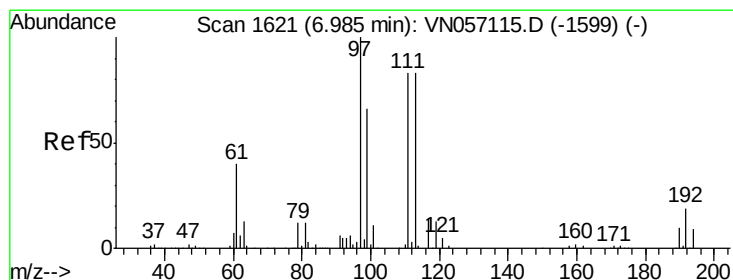
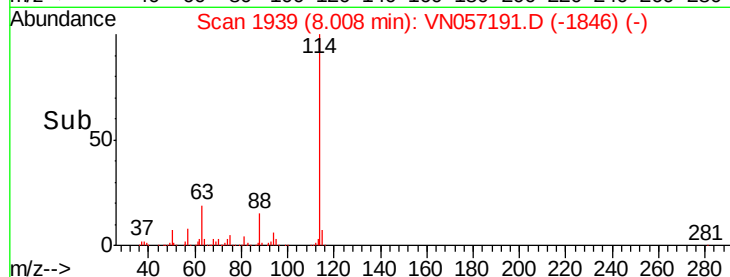
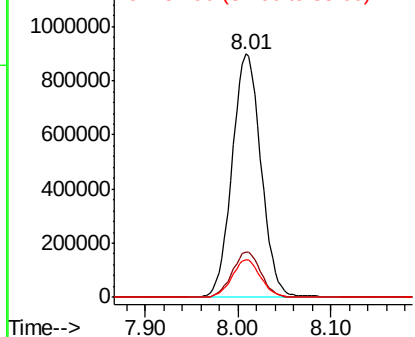
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

Instrument :
 MSVOA_N
 ClientSampleId :
 1S-O-(0)

Tgt Ion:114 Resp: 1948625
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.2
 88 15.3 0.0 30.0

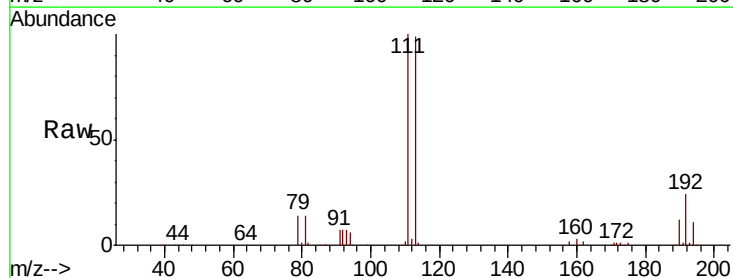


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

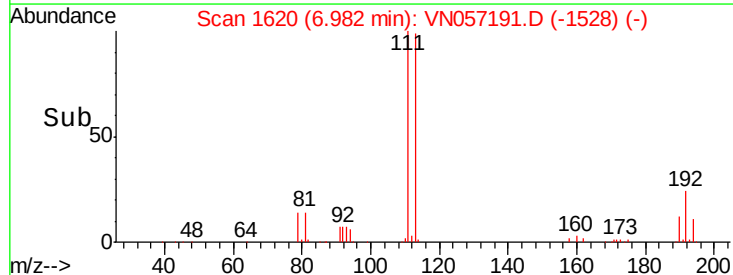
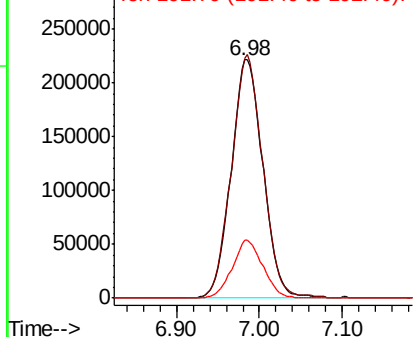


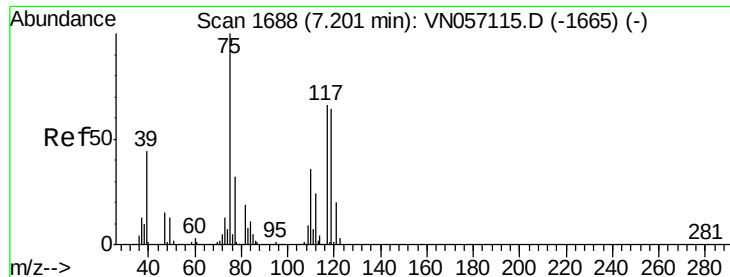
#35
 Dibromofluoromethane
 Concen: 48.390 ug/l
 RT: 6.98 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

Tgt Ion:113 Resp: 591714
 Ion Ratio Lower Upper
 113 100
 111 100.7 81.3 121.9
 192 23.5 19.0 28.4



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

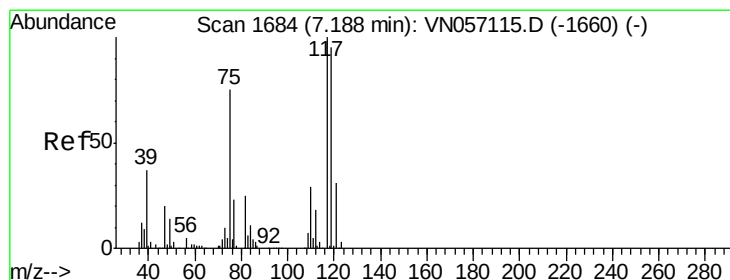
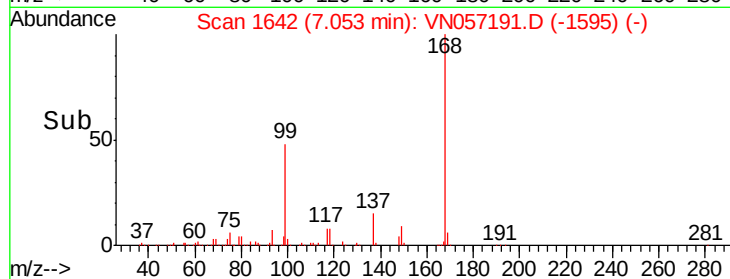
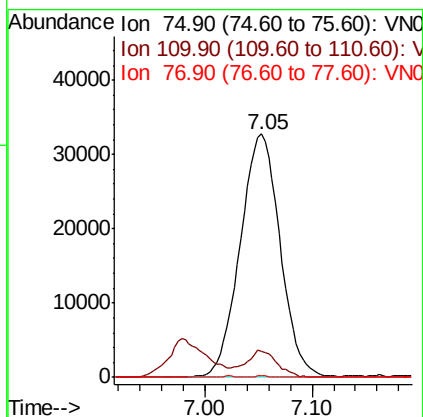
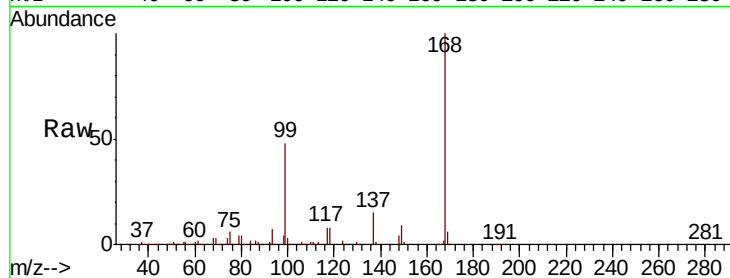




#36
 1,1-Dichloropropene
 Concen: 5.259 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.15 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

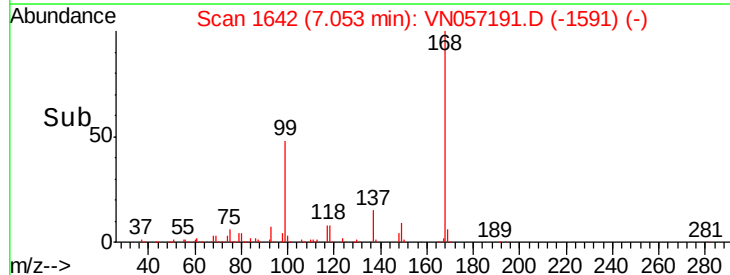
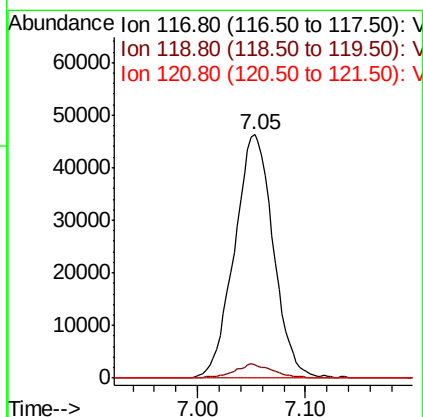
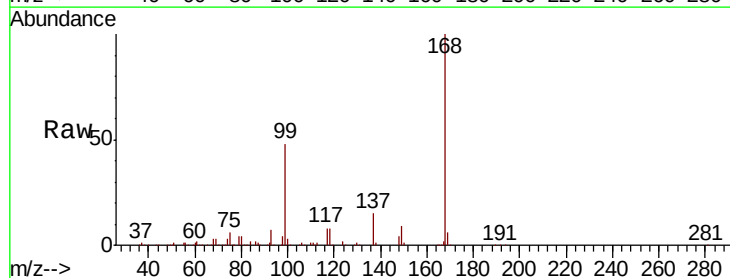
Instrument :
 MSVOA_N
 ClientSampleId :
 1S-O-(0)

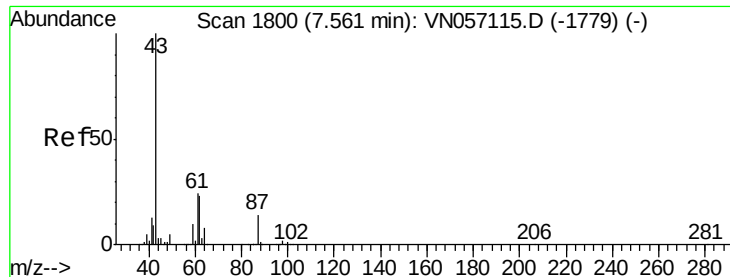
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.7	56.1#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.935 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.14 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	75.8	113.6#
121	0.0	24.4	36.6#





#43

Isopropyl Acetate

Concen: 7.662 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.01 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

1S-O(0)

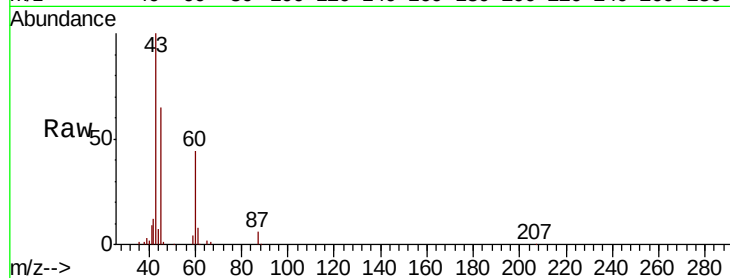
Tgt Ion: 43 Resp: 172926

Ion Ratio Lower Upper

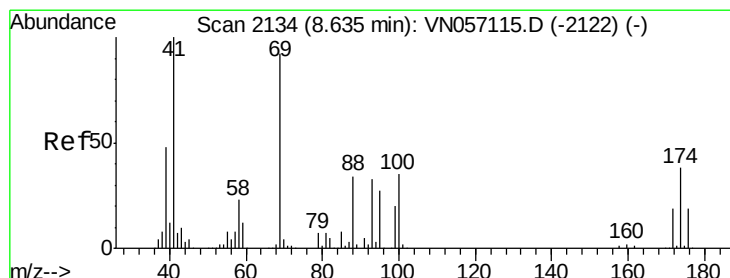
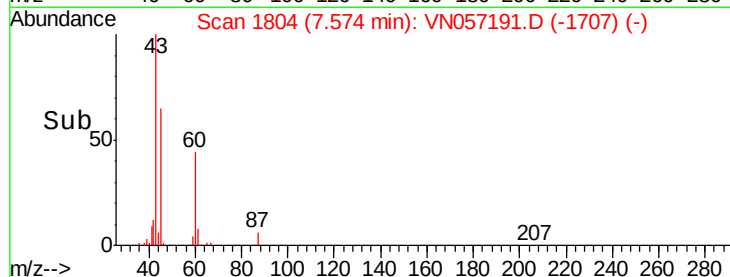
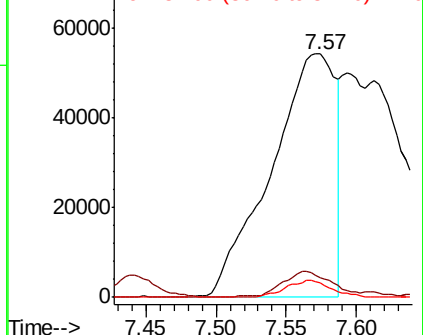
43 100

61 8.3 24.2 36.2#

87 4.8 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.893 ug/l

RT: 8.62 min Scan# 2128

Delta R.T. -0.02 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

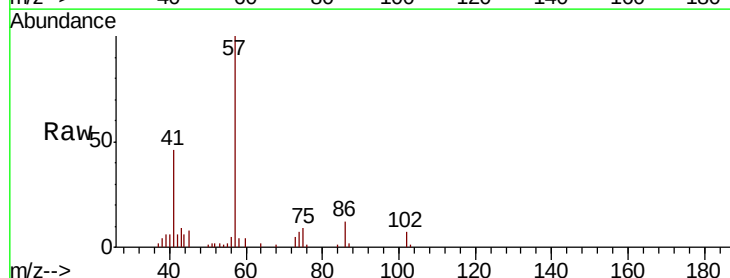
Tgt Ion: 41 Resp: 20151

Ion Ratio Lower Upper

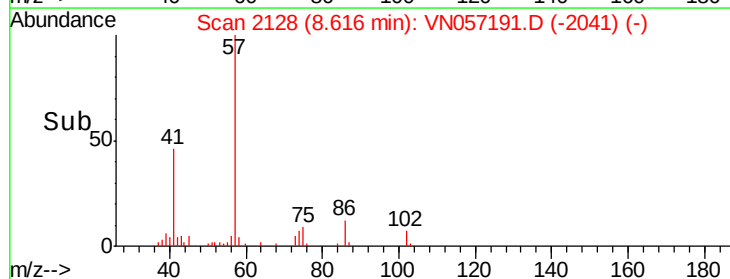
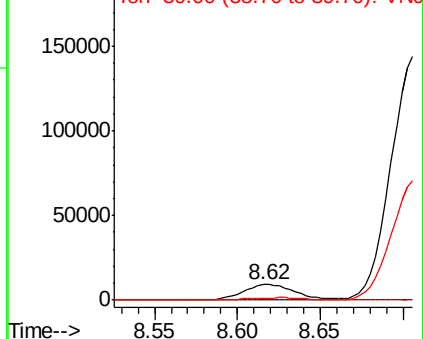
41 100

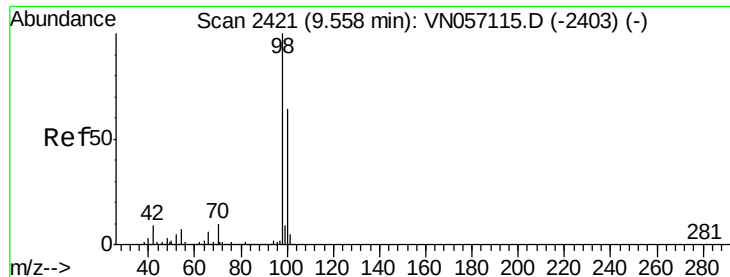
69 0.0 77.5 116.3#

39 0.0 39.8 59.6#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

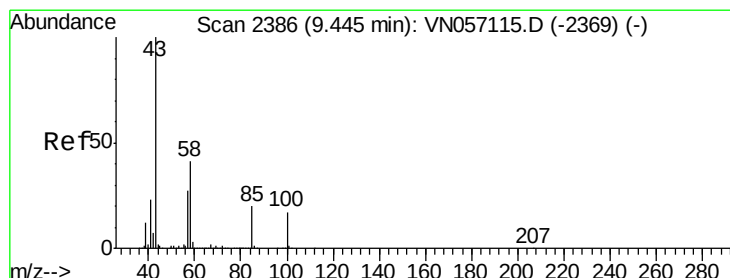
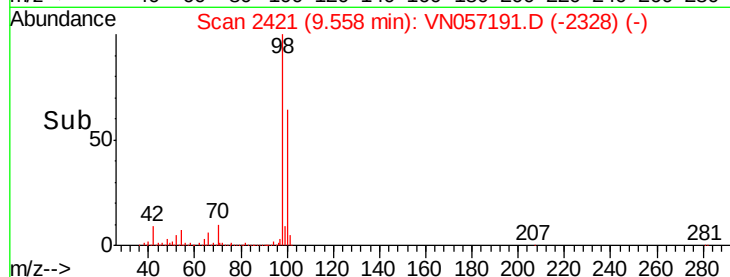
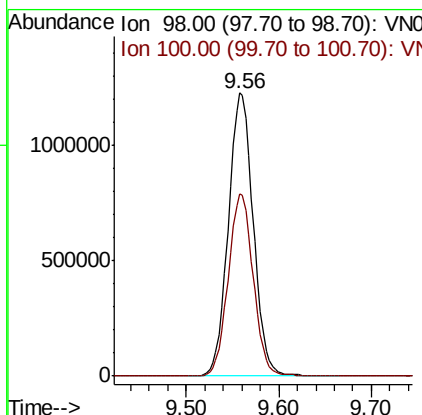
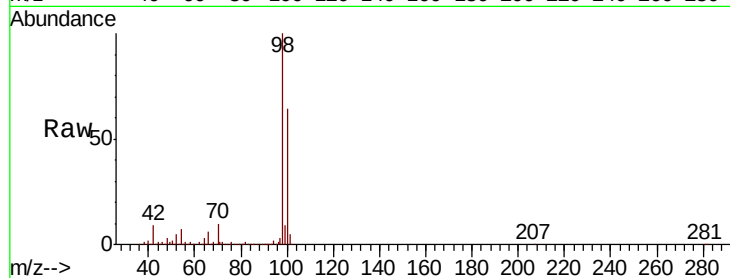




#50
Toluene-d8
Concen: 48.701 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

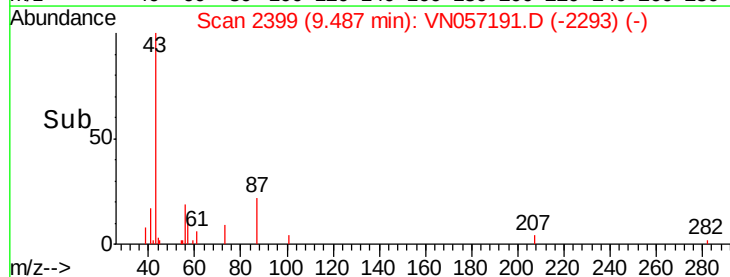
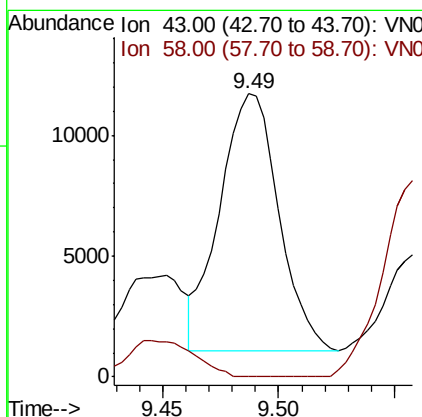
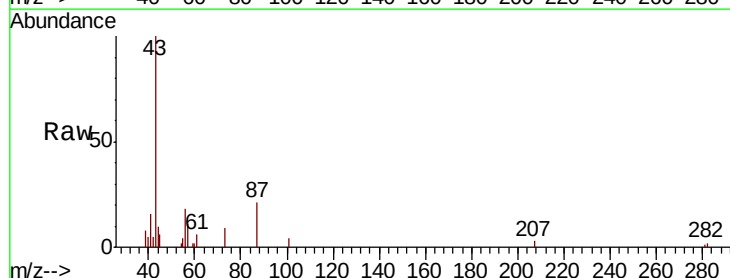
Instrument :
MSVOA_N
ClientSampled :
1S-O(0)

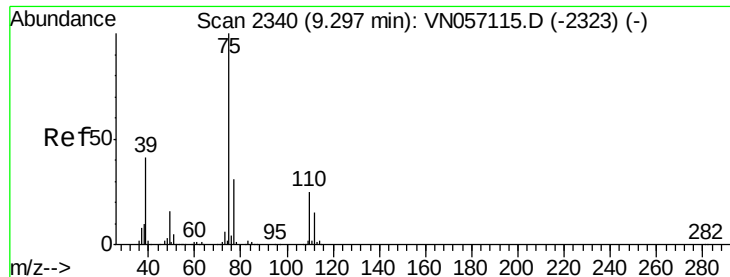
Tgt Ion: 98 Resp: 2278302
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.434 ug/l
RT: 9.49 min Scan# 2399
Delta R.T. 0.04 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Tgt Ion: 43 Resp: 18834
Ion Ratio Lower Upper
43 100
58 0.0 33.2 49.8#





#54

cis-1,3-Dichloropropene

Concen: 6.911 ug/l

RT: 9.36 min Scan# 2360

Delta R.T. 0.06 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

1S-O(0)

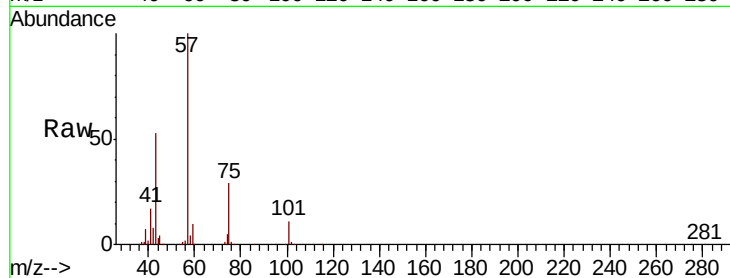
Tgt Ion: 75 Resp: 135176

Ion Ratio Lower Upper

75 100

77 0.7 25.1 37.7#

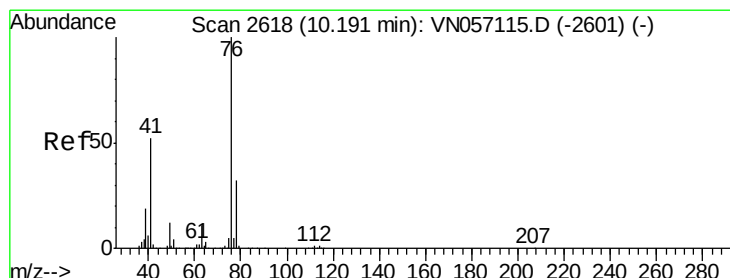
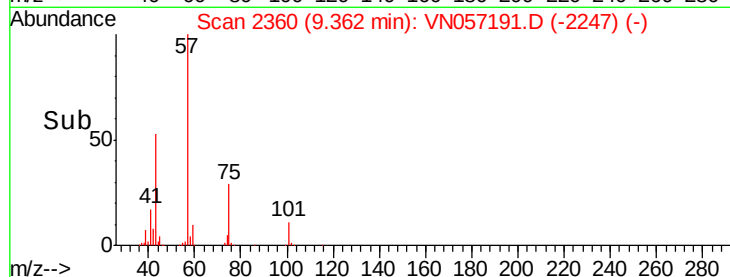
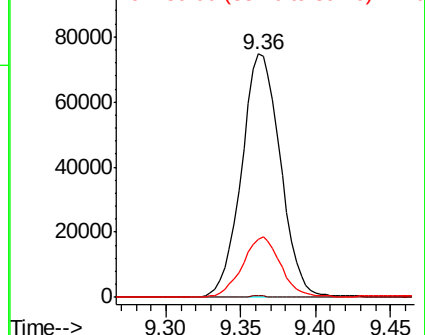
39 24.1 32.5 48.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.297 ug/l

RT: 10.25 min Scan# 2636

Delta R.T. 0.06 min

Lab File: VN057191.D

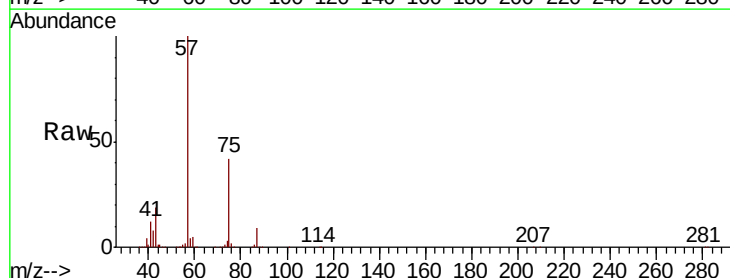
Acq: 11 Aug 2019 16:41

Tgt Ion: 76 Resp: 26508

Ion Ratio Lower Upper

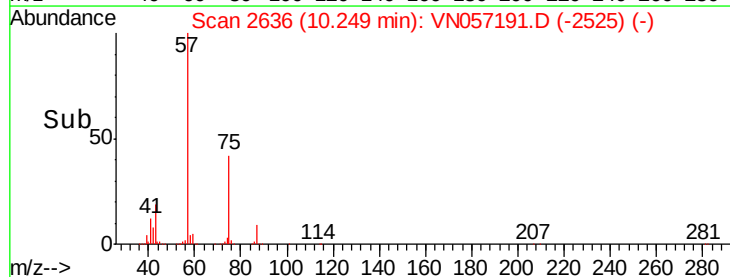
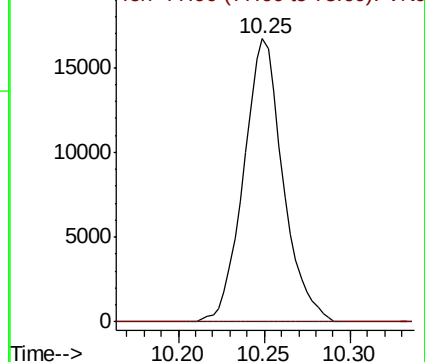
76 100

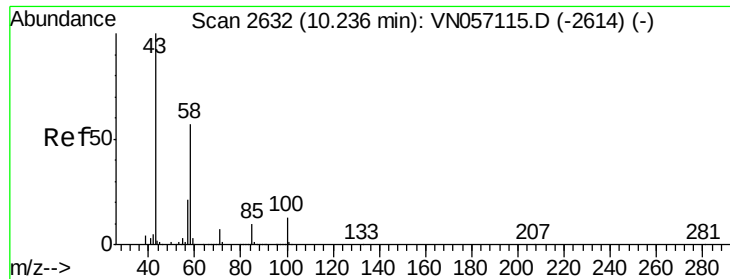
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

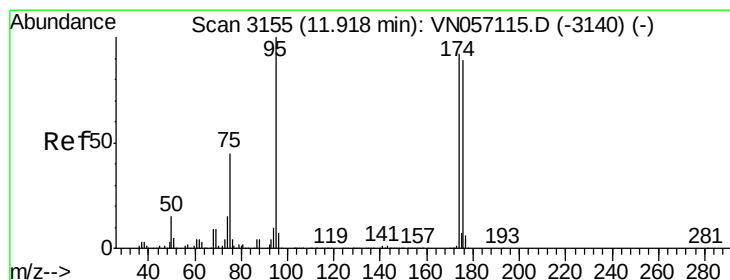
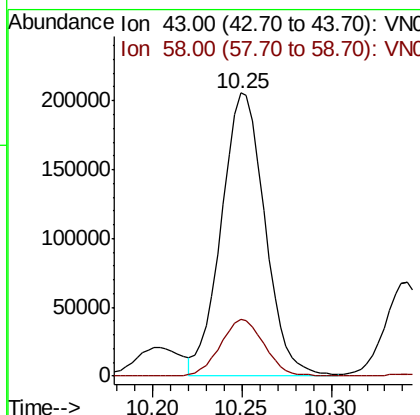
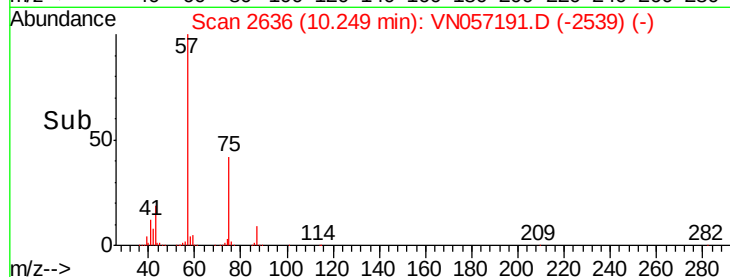
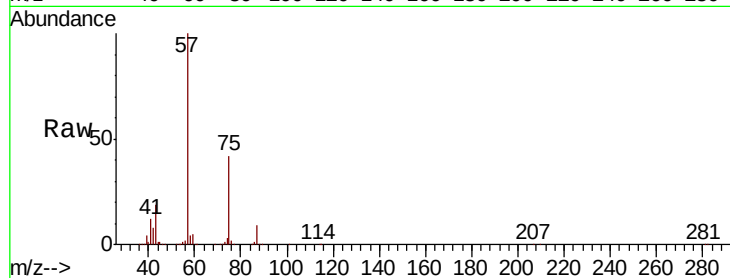




#59
2-Hexanone
Concen: 38.917 ug/l
RT: 10.25 min Scan# 2636
Delta R.T. 0.01 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

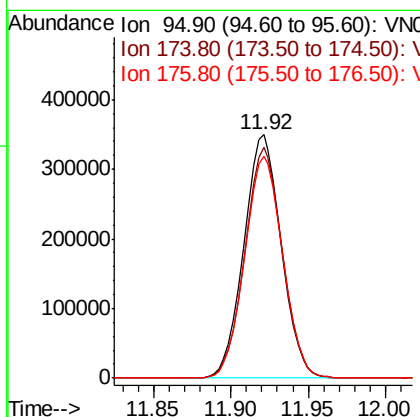
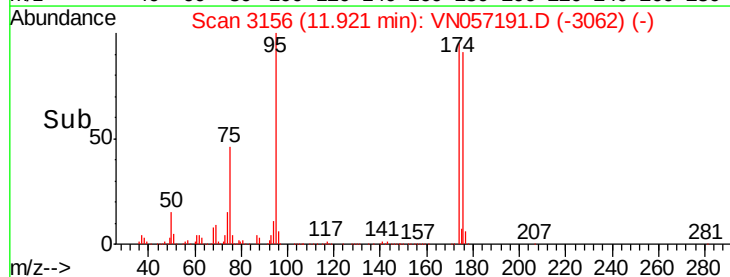
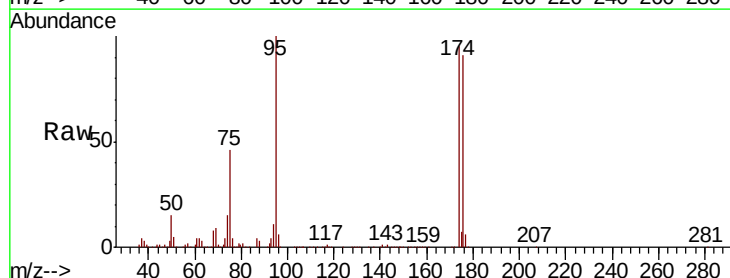
Instrument :
MSVOA_N
ClientSampleId :
1S-O(0)

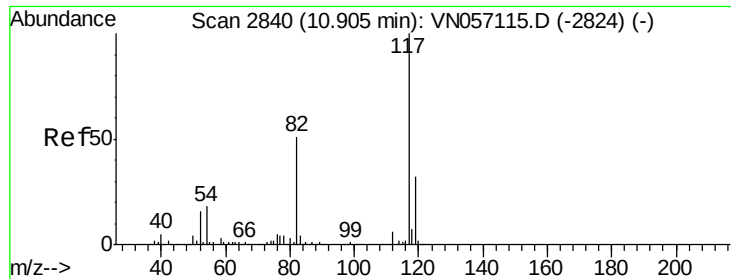
Tgt Ion: 43 Resp: 345973
Ion Ratio Lower Upper
43 100
58 20.5 29.2 87.6#



#62
4-Bromofluorobenzene
Concen: 39.000 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Tgt Ion: 95 Resp: 587860
Ion Ratio Lower Upper
95 100
174 94.9 0.0 185.0
176 92.7 0.0 181.2

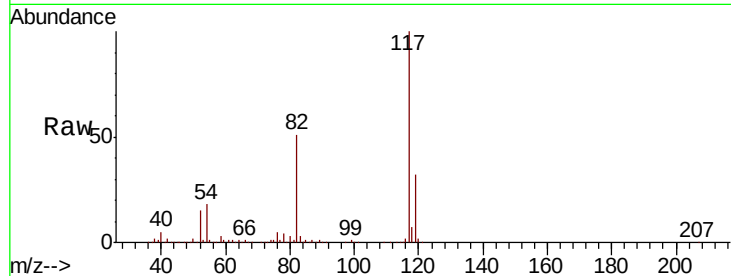




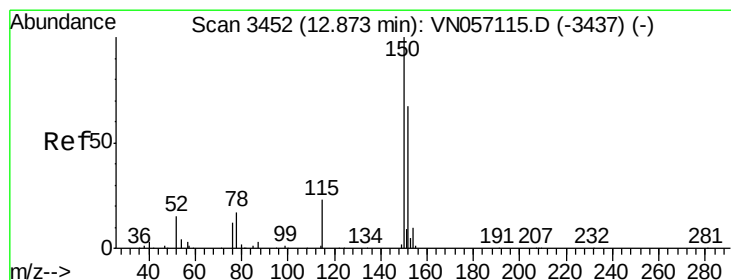
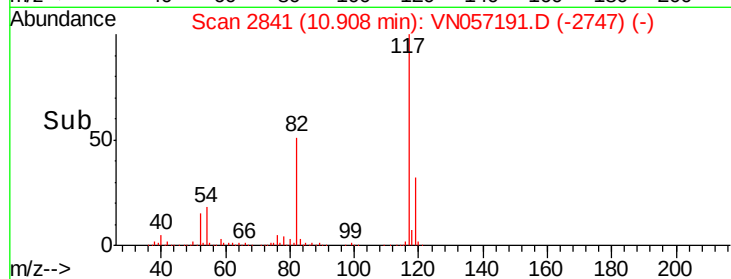
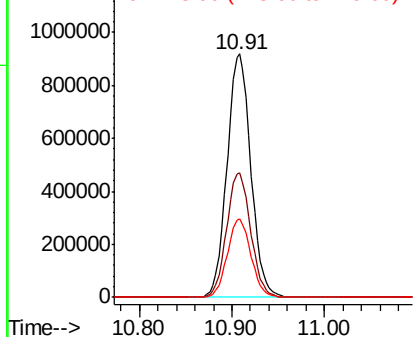
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Instrument :
MSVOA_N
ClientSampleId :
1S-O-(0)

Tgt Ion:117 Resp: 1628918
Ion Ratio Lower Upper
117 100
82 51.1 40.8 61.2
119 32.0 25.7 38.5

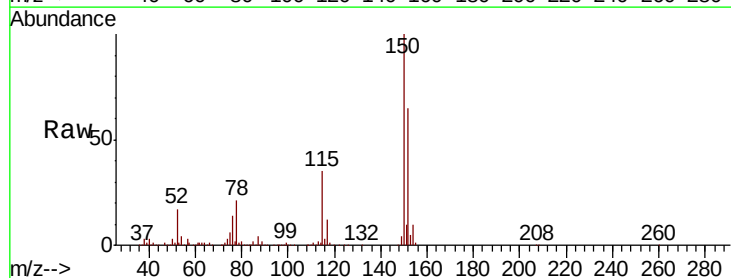


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

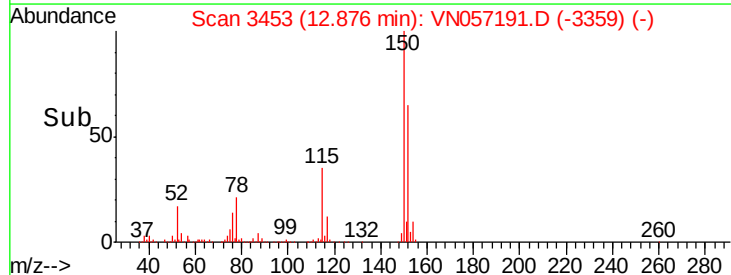
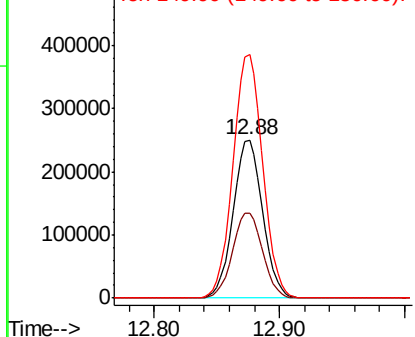


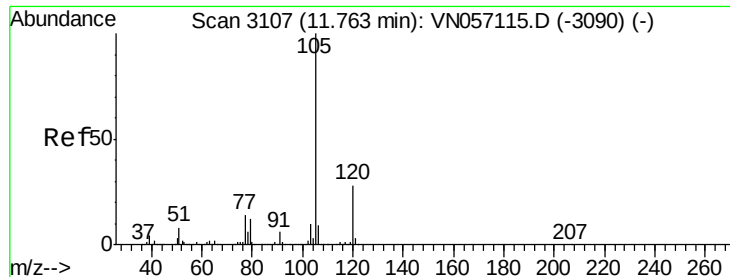
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.88 min Scan# 3453
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Tgt Ion:152 Resp: 408295
Ion Ratio Lower Upper
152 100
115 54.8 27.5 82.5
150 155.3 0.0 341.6



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.77 min Scan# 3108

Delta R.T. 0.00 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

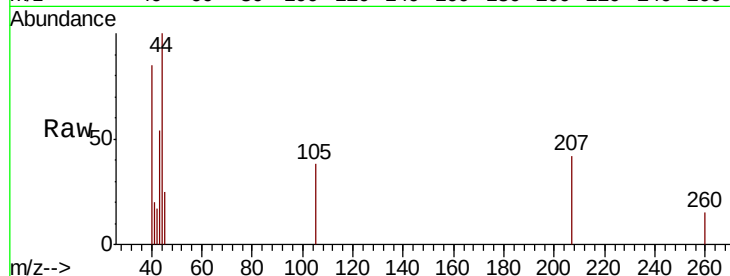
1S-O(0)

Tgt Ion: 105 Resp: 285

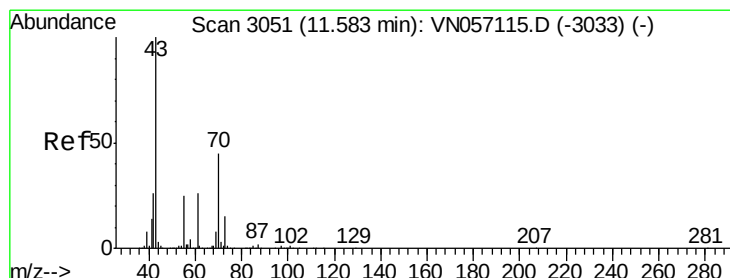
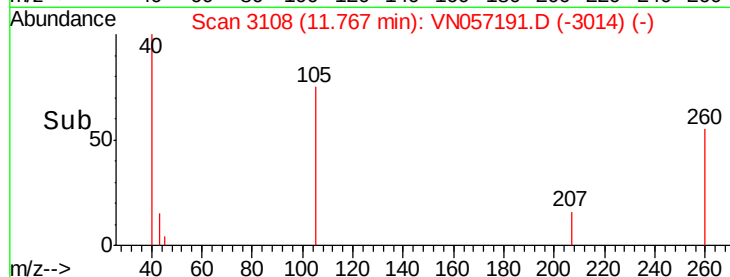
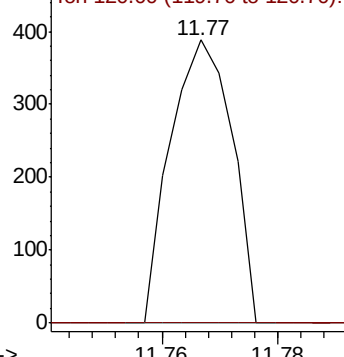
Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V



#74

N-ethyl acetate

Concen: 2.410 ug/l

RT: 11.39 min Scan# 2991

Delta R.T. -0.19 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Tgt Ion: 43 Resp: 24937

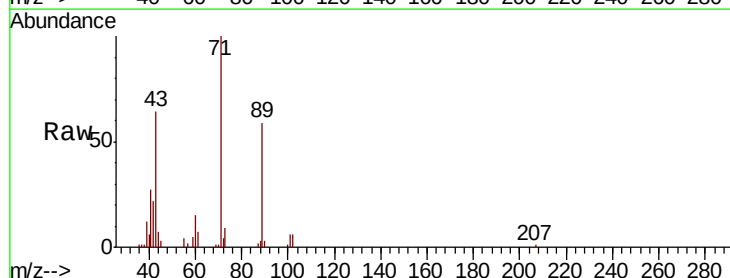
Ion Ratio Lower Upper

43 100

70 1.3 36.8 55.2#

55 5.5 20.6 31.0#

61 10.3 21.0 31.4#

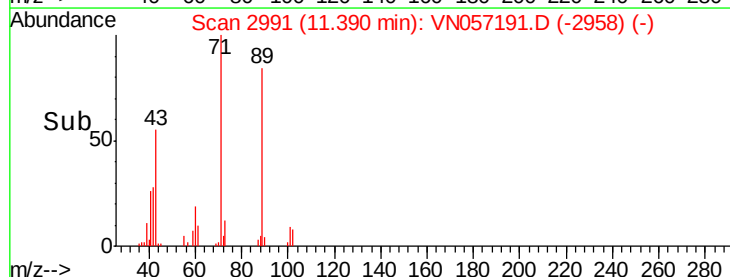
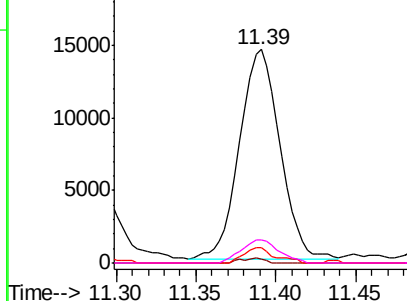


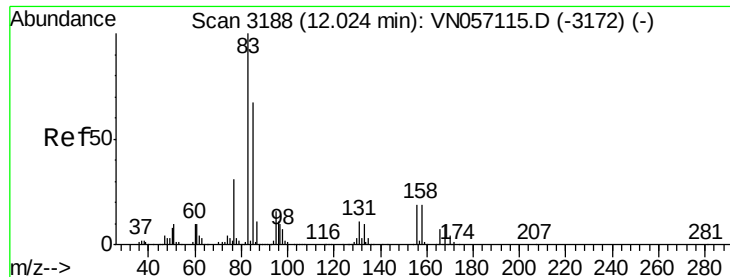
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3154

Delta R.T. -0.11 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Instrument :

MSVOA_N

ClientSampleId :

1S-O(0)

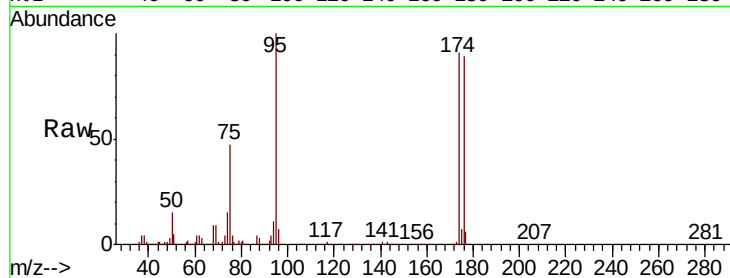
Tgt Ion: 83 Resp: 125

Ion Ratio Lower Upper

83 100

131 811.2 5.5 16.4#

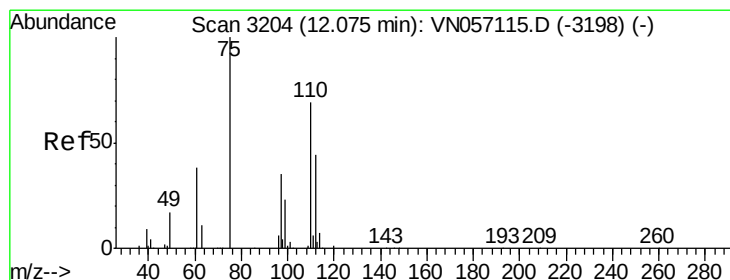
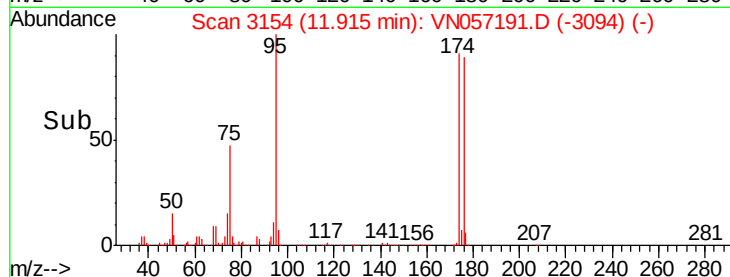
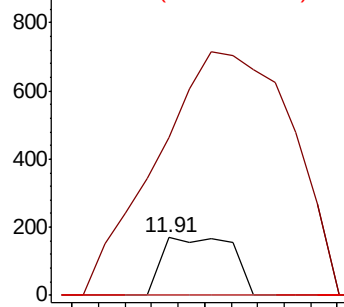
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 33.080 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057191.D

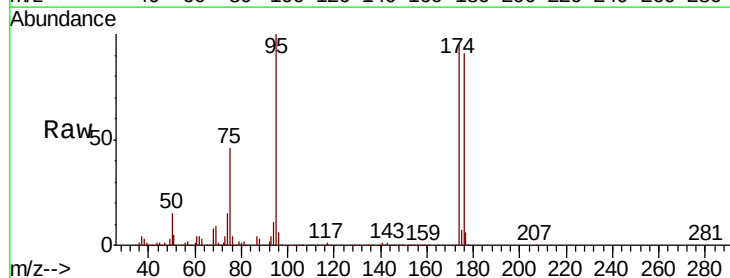
Acq: 11 Aug 2019 16:41

Tgt Ion: 75 Resp: 271608

Ion Ratio Lower Upper

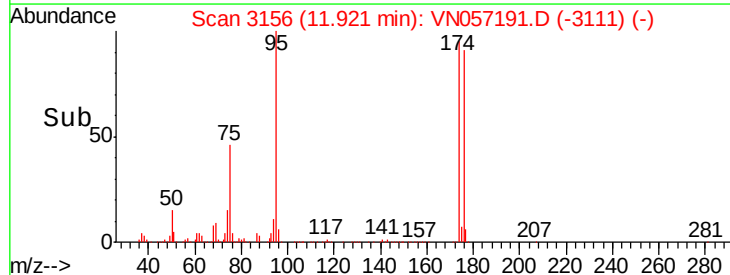
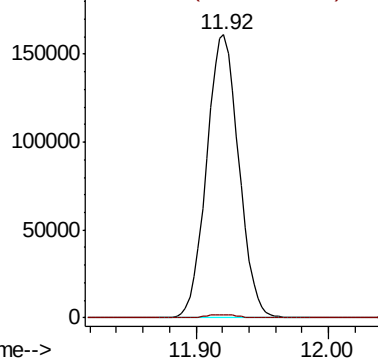
75 100

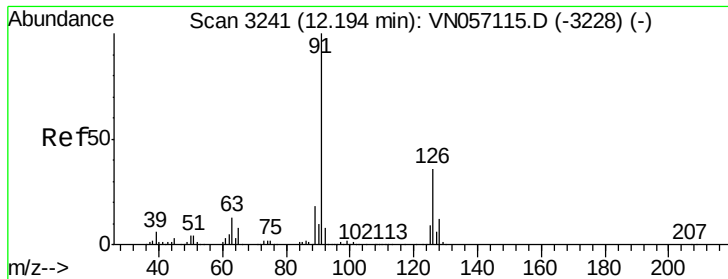
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

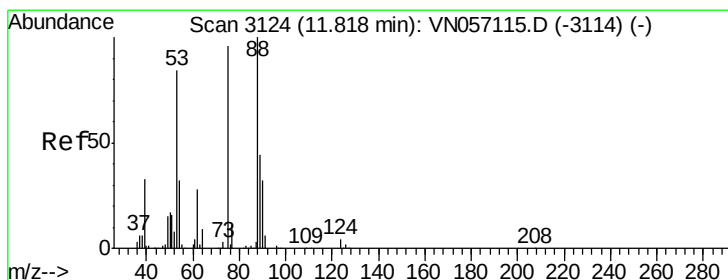
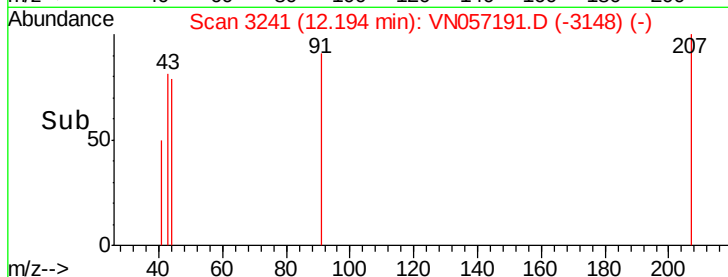
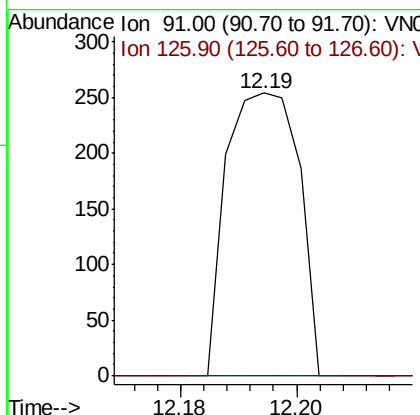
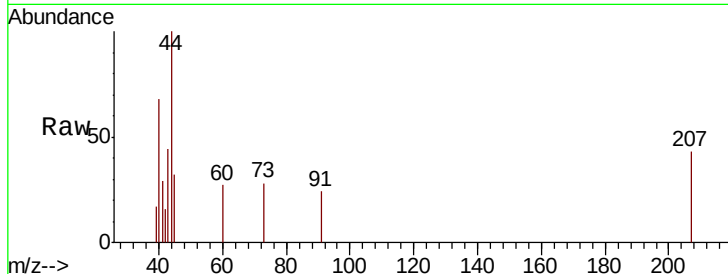




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.19 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

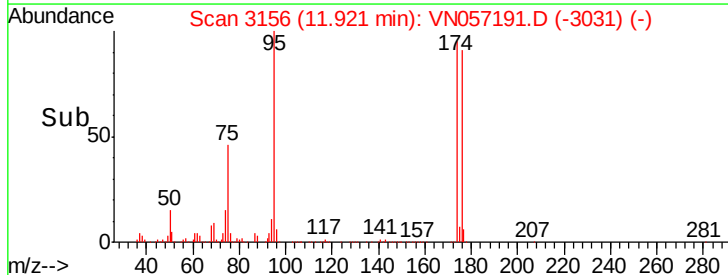
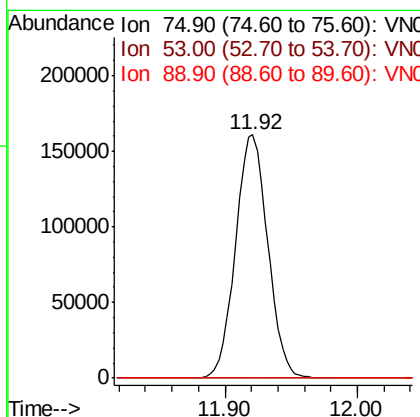
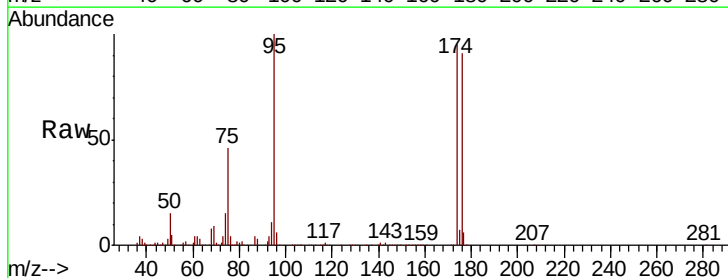
Instrument :
 MSVOA_N
 ClientSampleId :
 1S-O-(0)

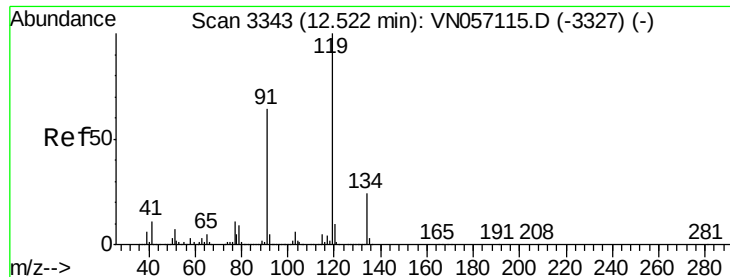
Tgt Ion: 91 Resp: 219
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.811 ug/l
 RT: 11.92 min Scan# 3156
 Delta R.T. 0.10 min
 Lab File: VN057191.D
 Acq: 11 Aug 2019 16:41

Tgt Ion: 75 Resp: 271608
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 106.0#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

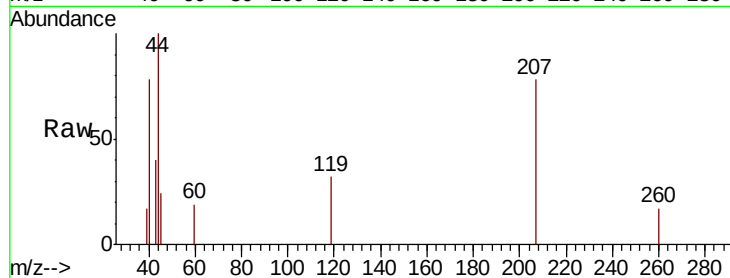
Instrument :

MSVOA_N

ClientSampleId :

1S-O(0)

Tgt Ion:	119	Resp:	241
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.4	94.2#
134	0.0	13.2	39.6#



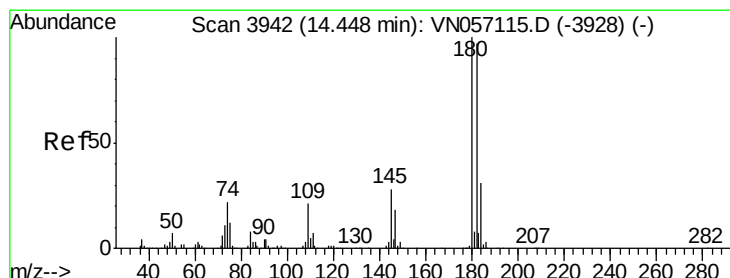
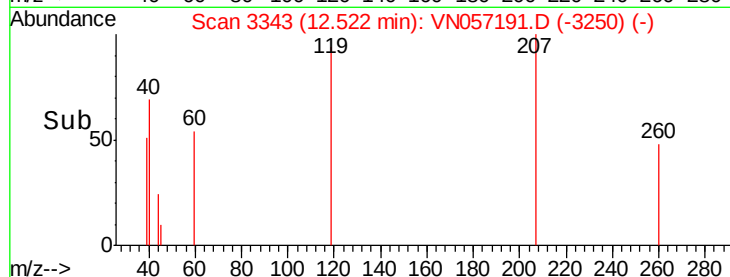
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V

12.52

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 5.951 ug/l

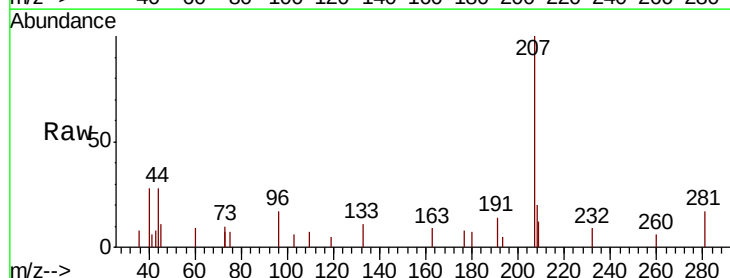
RT: 14.44 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN057191.D

Acq: 11 Aug 2019 16:41

Tgt Ion:	180	Resp:	139
Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.6#
145	0.0	14.1	42.2#



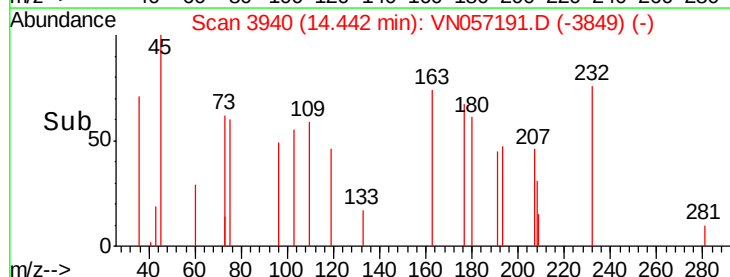
Abundance Ion 179.80 (179.50 to 180.50): V

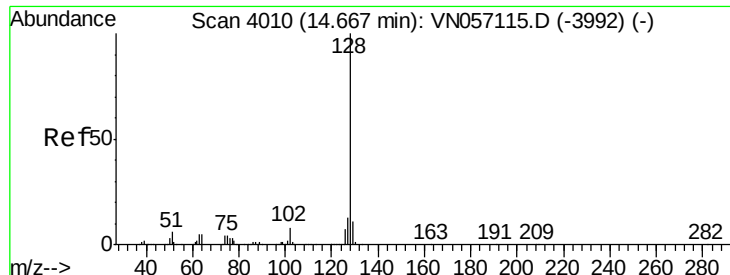
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.44

Time-->

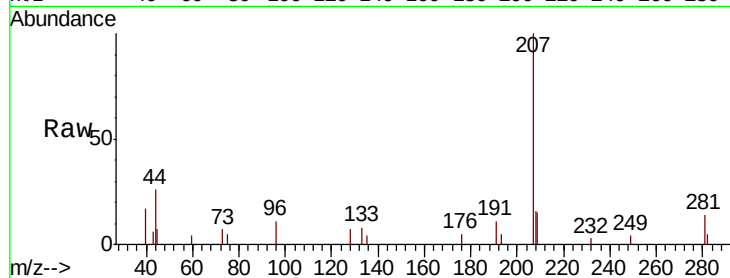




#95
Naphthalene
Concen: 2.824 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VN057191.D
Acq: 11 Aug 2019 16:41

Instrument :
MSVOA_N
ClientSampleId :
1S-O(0)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	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

