

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059513.D
 Acq On : 6 Dec 2019 14:31
 Operator : JC/SP
 Sample : K6147-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:20:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	233042	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	374588	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	341242	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	122598	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	166559	57.53	ug/l	0.00
Spiked Amount			Recovery	=	115.06%	
35) Dibromofluoromethane	7.57	113	119300	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
50) Toluene-d8	10.08	98	471915	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.40	95	147979	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	

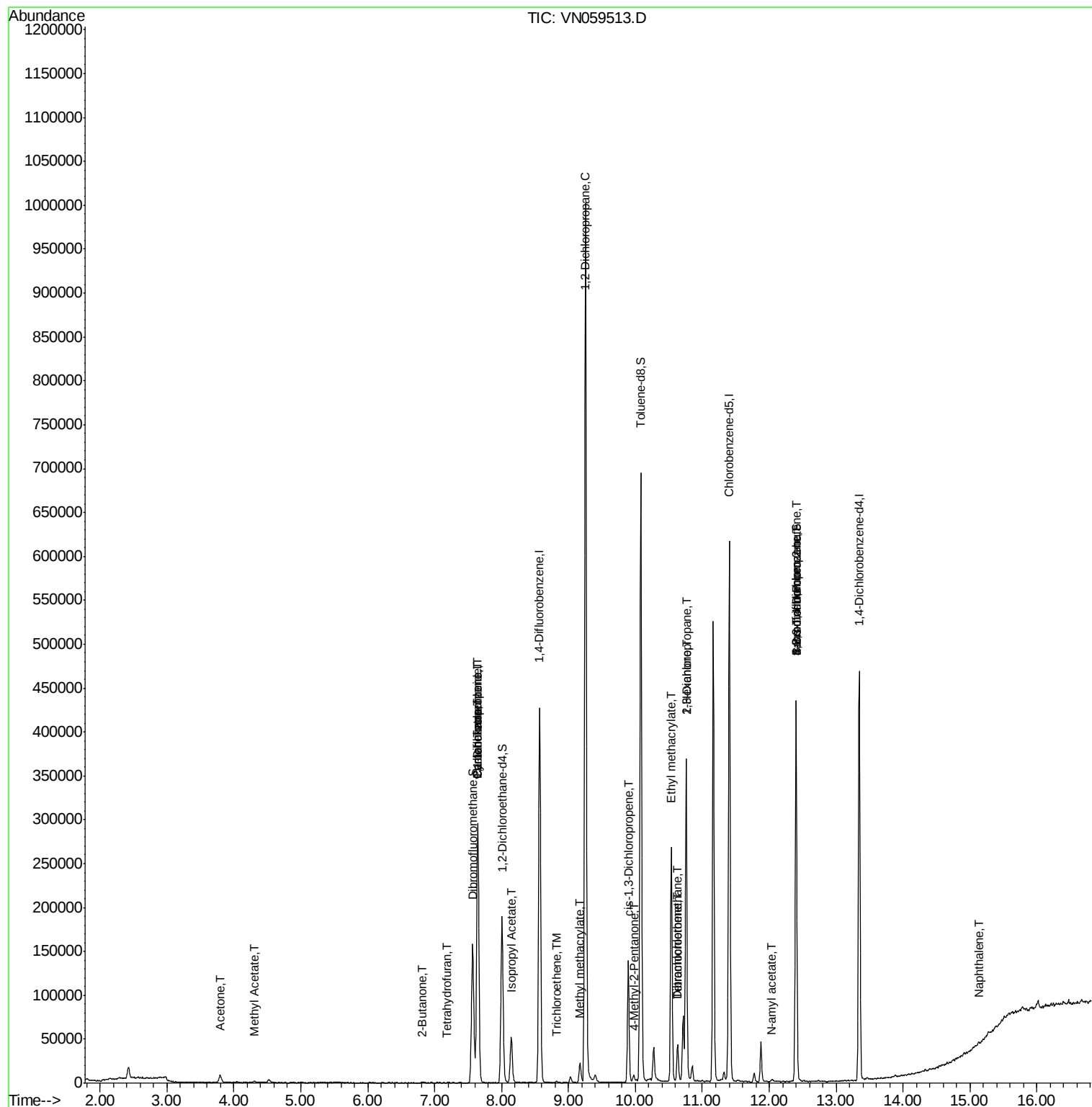
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	14109	3.597	ug/l	100
18) Methyl Acetate	4.31	43	2867	0.736	ug/l #	84
20) Methylene Chloride	4.53	84	2222	Below Cal		96
25) 2-Butanone	6.82	43	2067	0.939	ug/l #	50
29) Tetrahydrofuran	7.20	42	448	0.324	ug/l #	34
31) Cyclohexane	7.64	56	5638	1.156	ug/l #	13
36) 1,1-Dichloropropene	7.64	75	19012	4.877	ug/l #	49
38) Carbon Tetrachloride	7.64	117	22730	6.063	ug/l #	16
43) Isopropyl Acetate	8.14	43	60733	9.378	ug/l #	88
44) Trichloroethene	8.82	130	705	0.236	ug/l	87
45) 1,2-Dichloropropane	9.26	63	1100	0.361	ug/l #	44
48) Methyl methacrylate	9.17	41	3871	1.325	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6346	1.651	ug/l #	79
54) cis-1,3-Dichloropropene	9.90	75	23271	4.901	ug/l #	73
56) Ethyl methacrylate	10.54	69	1035	1.680	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3721	0.791	ug/l #	42
59) 2-Hexanone	10.76	43	55146	19.062	ug/l #	51
60) Dibromochloromethane	10.62	129	883	0.304	ug/l #	10
64) Tetrachloroethene	10.63	164	965	0.332	ug/l	96
71) Bromoform	12.41	173	949	0.454	ug/l #	1
74) N-amyl acetate	12.03	43	2953	0.746	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	79589	26.109	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79589	68.520	ug/l #	15
95) Naphthalene	15.14	128	386	2.480	ug/l #	69

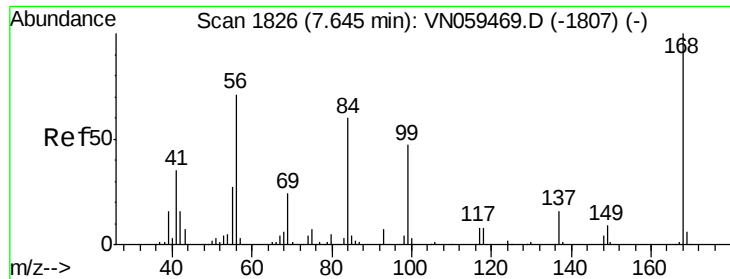
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

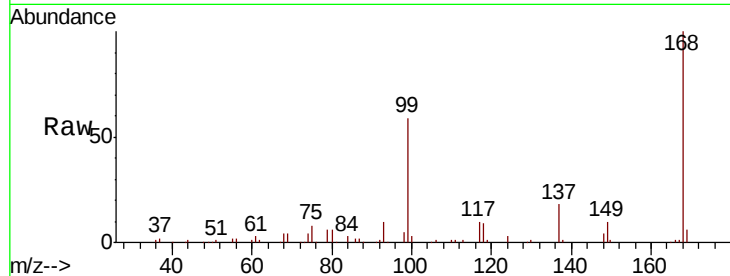
ClientSampleId :

Tot Ion:168 Resp: 233042

Ion Ratio Lower Upper

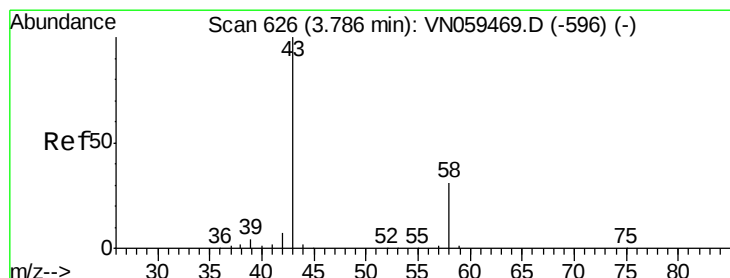
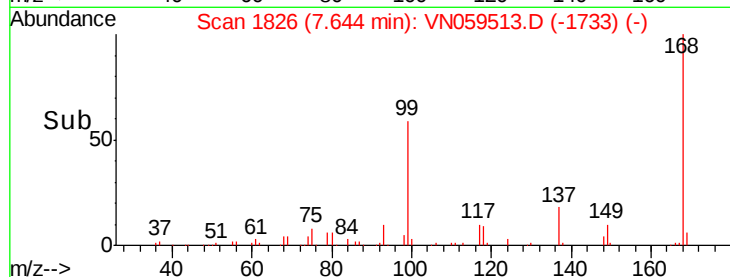
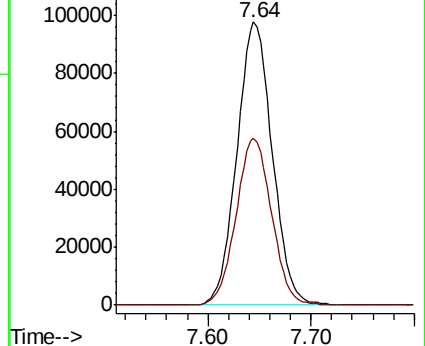
168 100

99 59.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 3.597 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059513.D

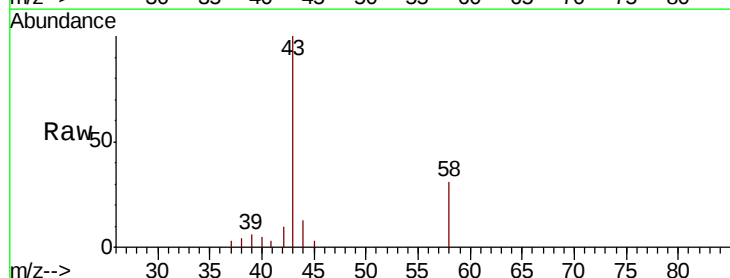
Acq: 6 Dec 2019 14:31

Tgt Ion: 43 Resp: 14109

Ion Ratio Lower Upper

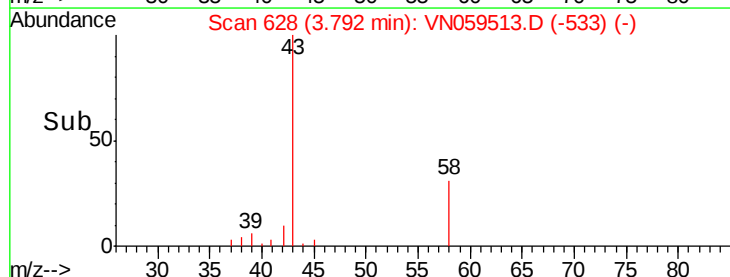
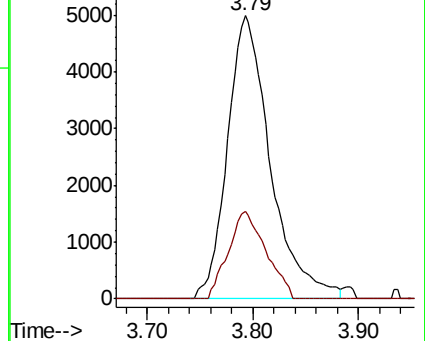
43 100

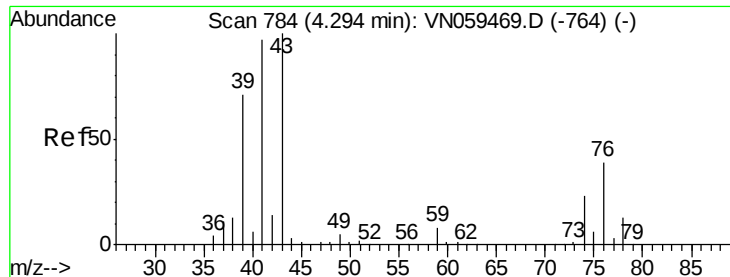
58 30.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

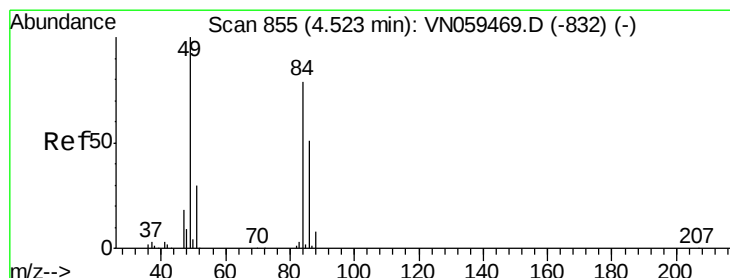
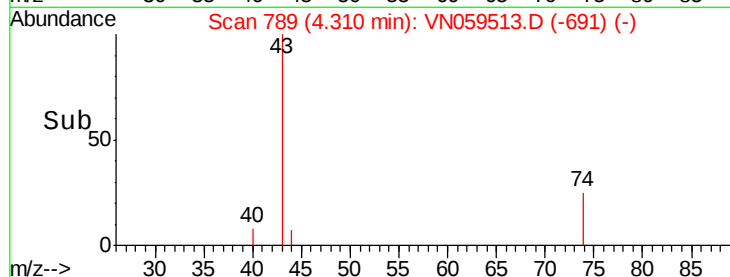
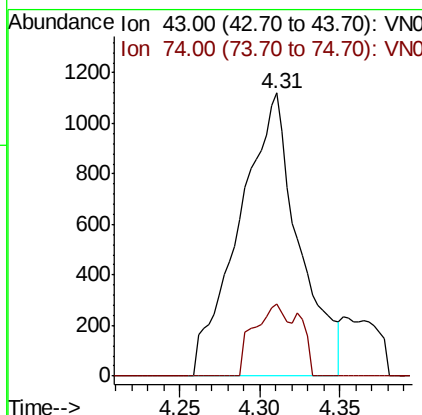
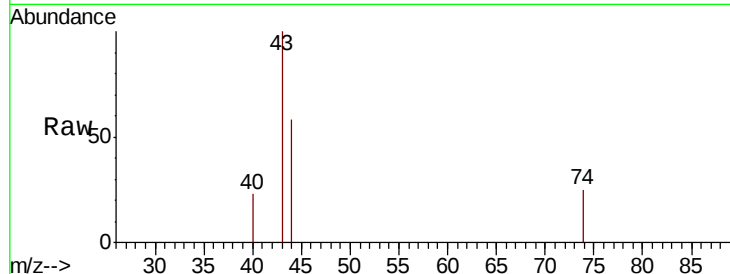




#18
Methyl Acetate
Concen: 0.736 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

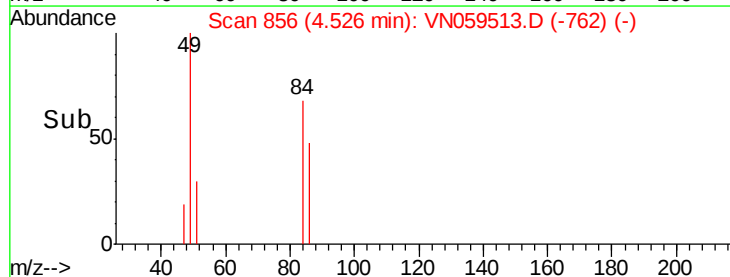
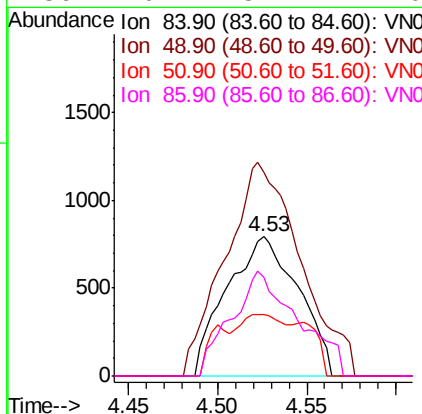
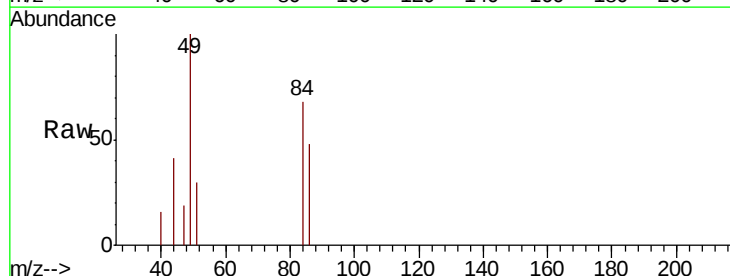
Instrument :
MSVOA_N
ClientSampled :

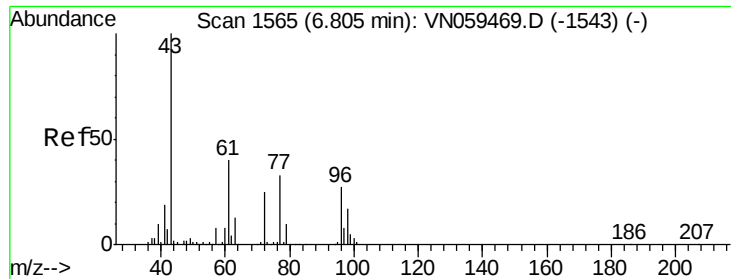
Tot Ion: 43 Resp: 2867
Ion Ratio Lower Upper
43 100
74 15.0 18.3 27.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Tgt Ion: 84 Resp: 2222
Ion Ratio Lower Upper
84 100
49 126.8 101.1 151.7
51 44.1 30.7 46.1
86 70.7 51.4 77.0

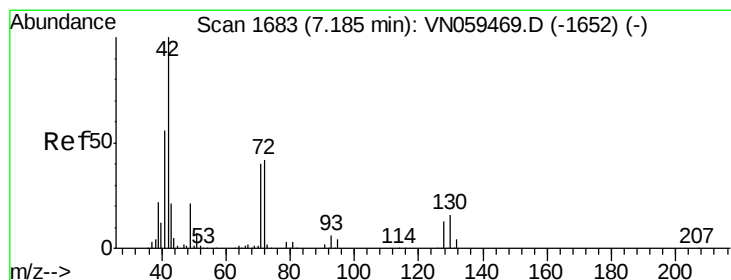
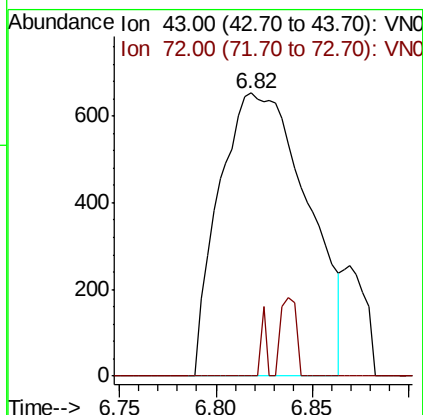
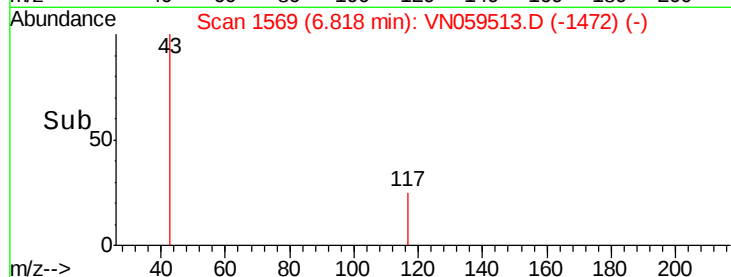
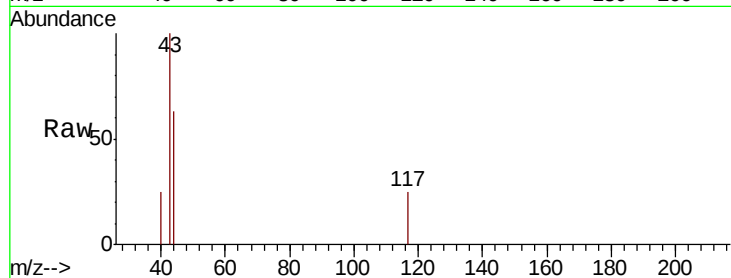




#25
2-Butanone
Concen: 0.939 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

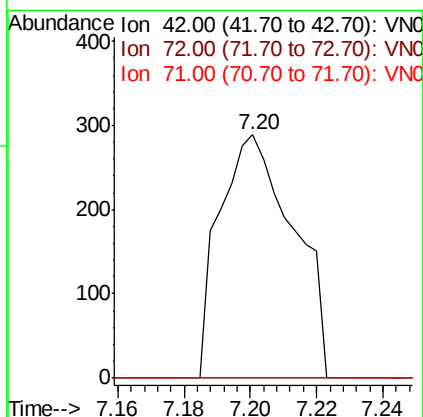
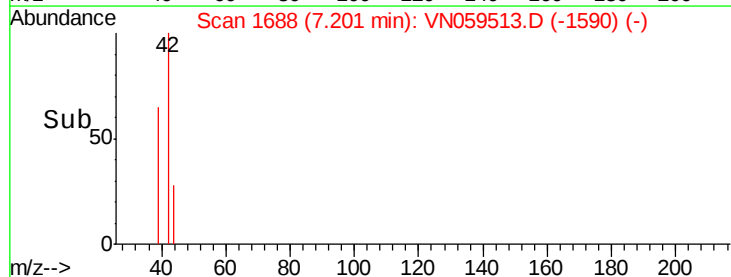
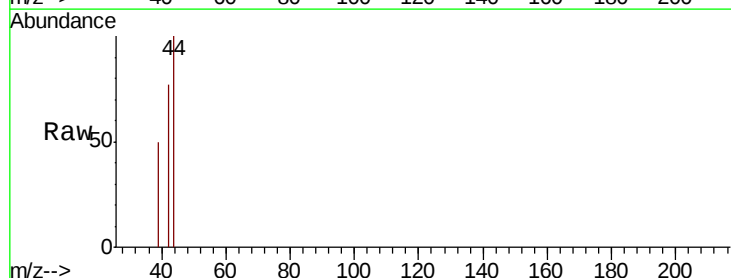
Instrument :
MSVOA_N
ClientSampled :

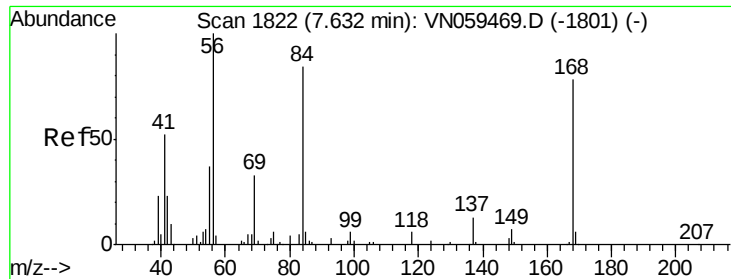
Tot Ion: 43 Resp: 2067
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.02 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Tgt Ion: 42 Resp: 448
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.0 48.0#

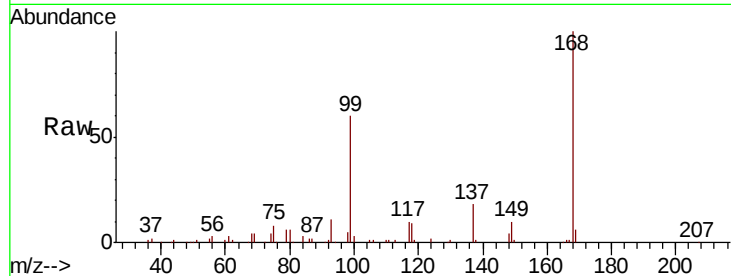




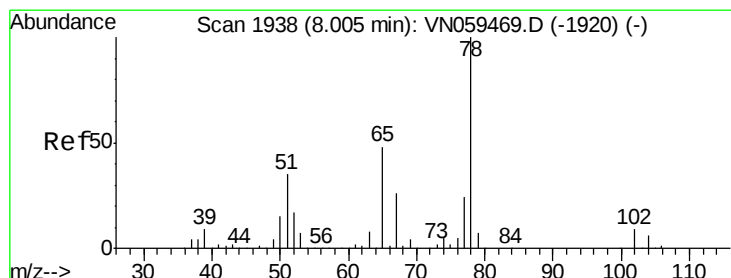
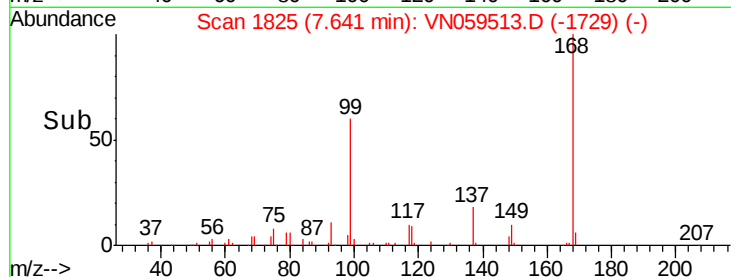
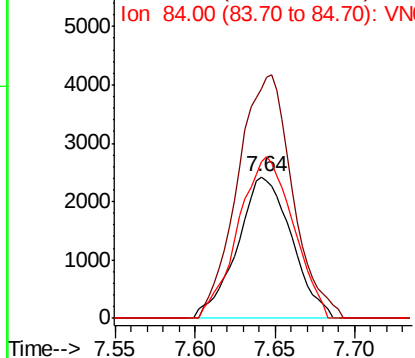
#31
Cyclohexane
Concen: 1.156 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5638
Ion Ratio Lower Upper
56 100
69 162.4 26.2 39.4#
84 110.8 66.8 100.2#

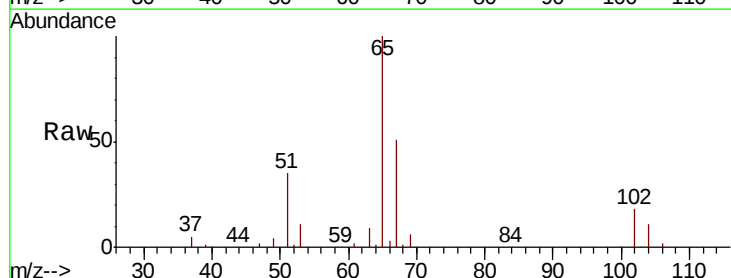


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

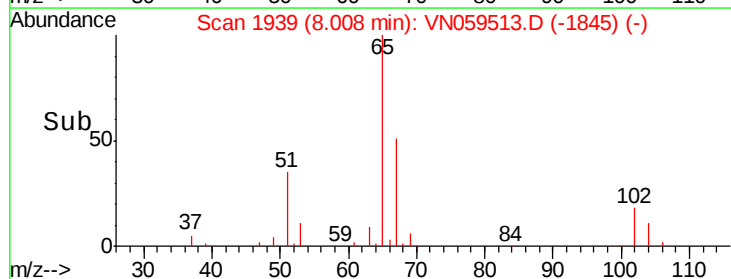
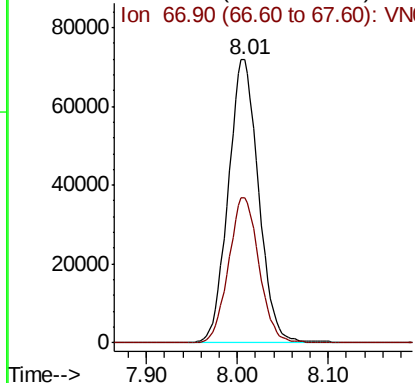


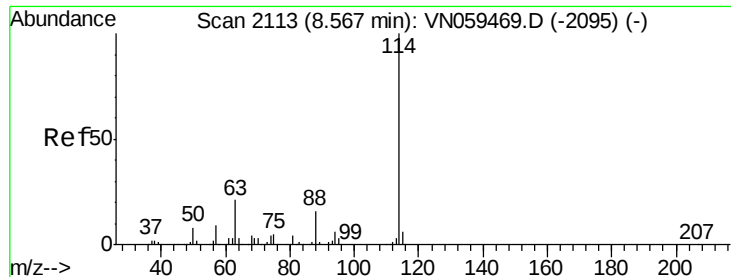
#33
1,2-Dichloroethane-d4
Concen: 57.533 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Tgt Ion: 65 Resp: 166559
Ion Ratio Lower Upper
65 100
67 51.4 0.0 107.4



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# 2114

Delta R.T. 0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

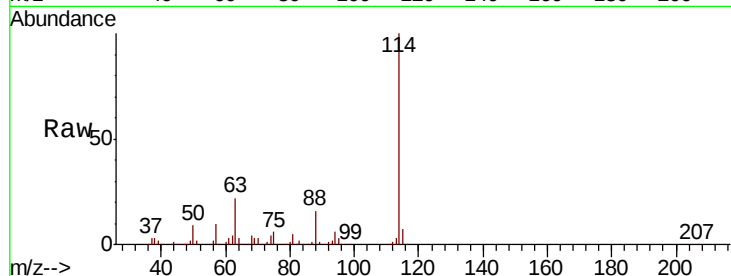
Tot Ion:114 Resp: 374588

Ion Ratio Lower Upper

114 100

63 22.0 0.0 42.4

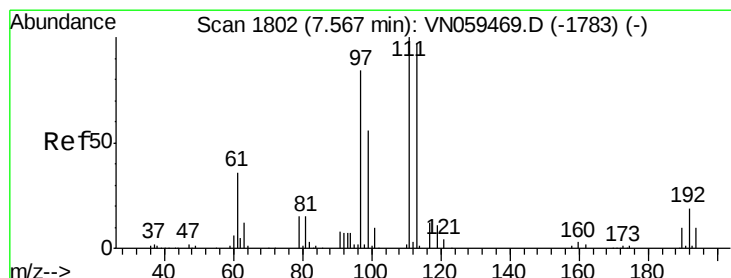
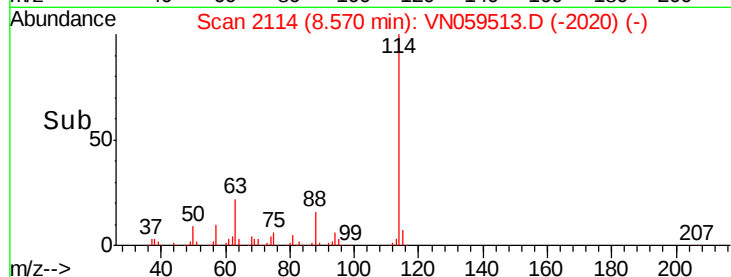
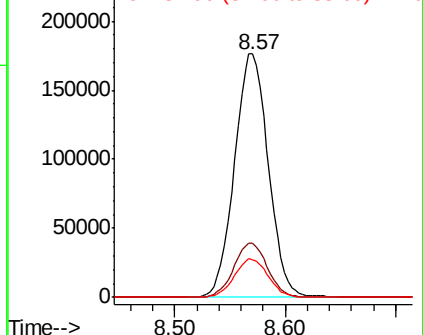
88 15.6 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.135 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

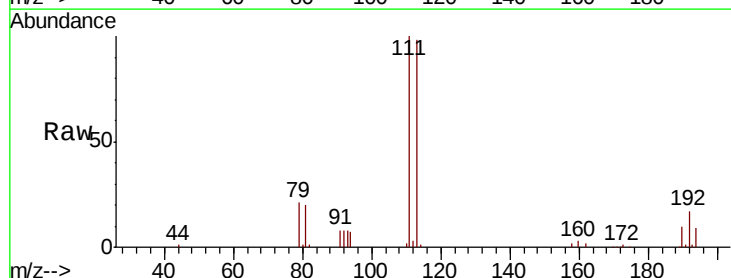
Tgt Ion:113 Resp: 119300

Ion Ratio Lower Upper

113 100

111 103.3 82.5 123.7

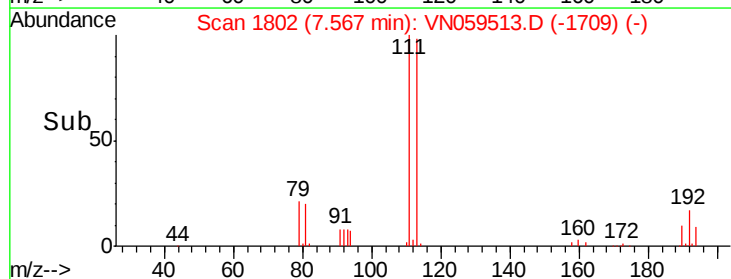
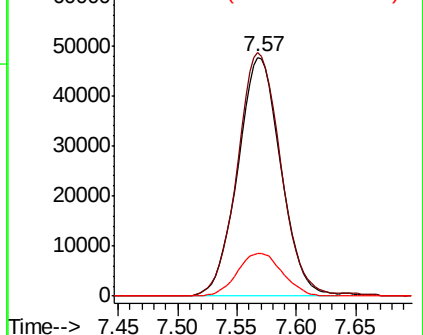
192 18.8 16.1 24.1

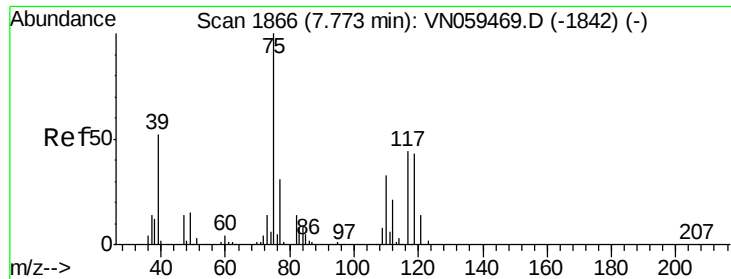


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

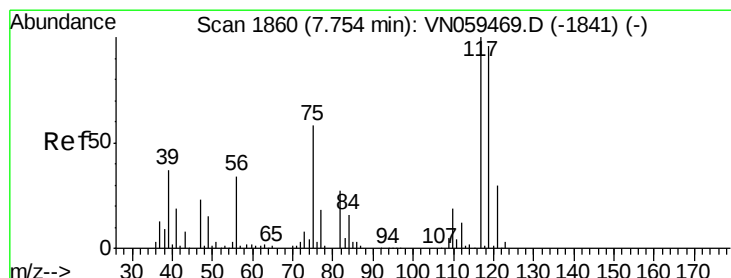
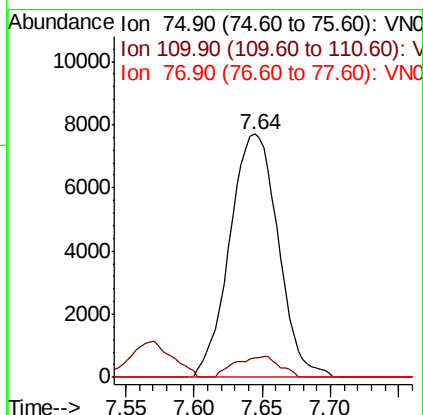
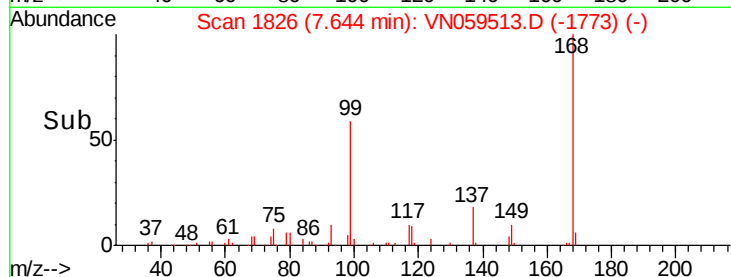
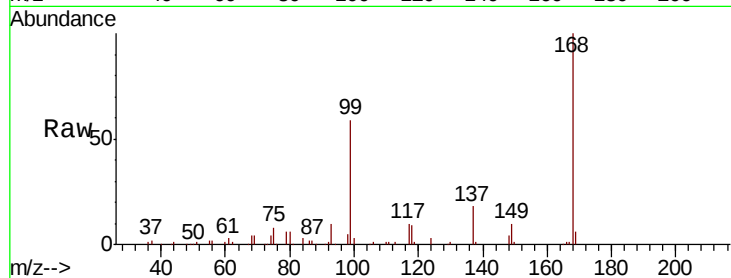




#36
 1,1-Dichloropropene
 Concen: 4.877 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

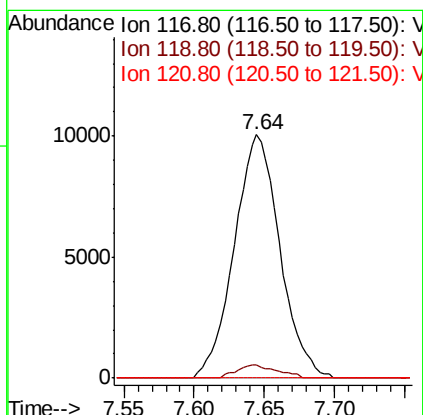
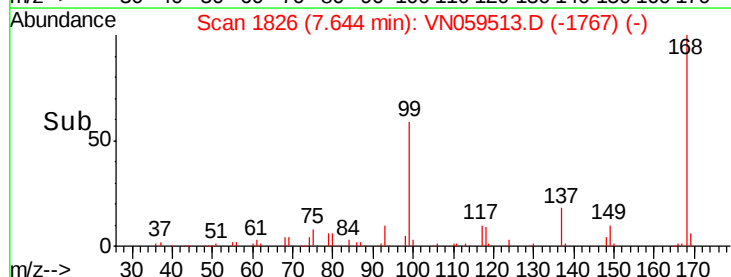
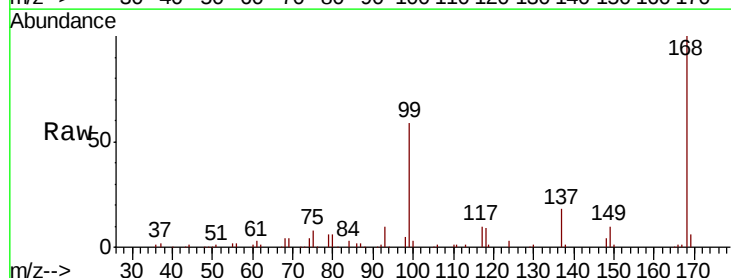
Instrument :
 MSVOA_N
 ClientSampleId :

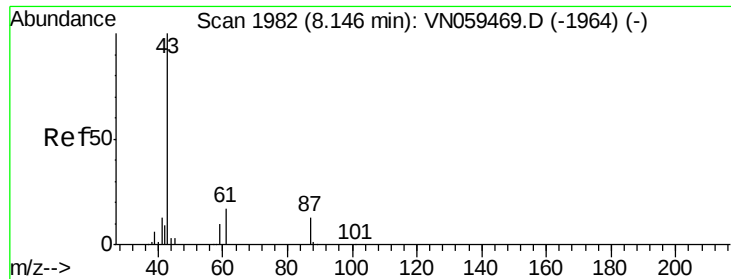
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.9	50.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.063 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.6	114.8#
121	0.0	24.0	36.0#

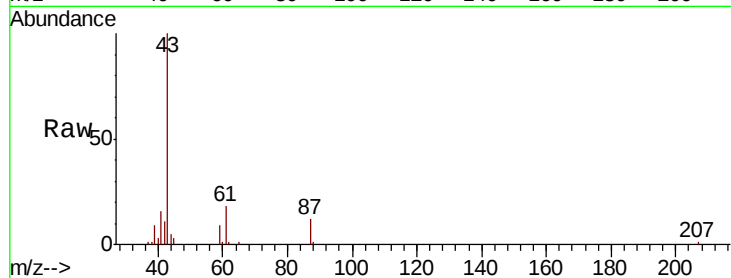




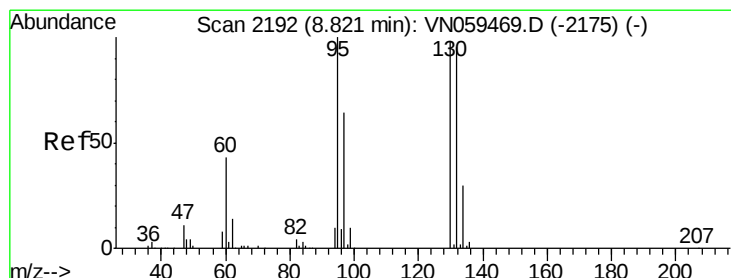
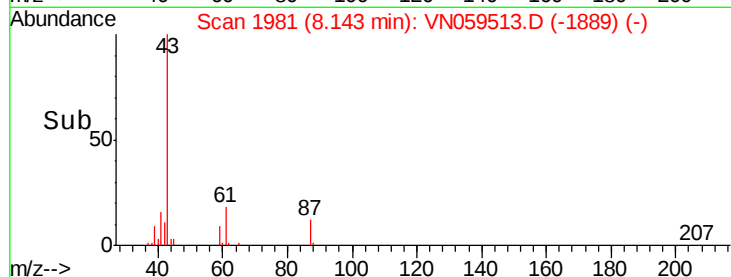
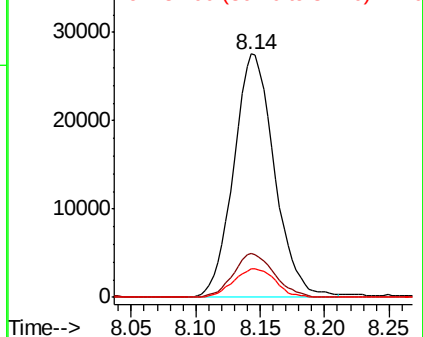
#43
Isopropyl Acetate
Concen: 9.378 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 60733
Ion Ratio Lower Upper
43 100
61 18.0 21.0 31.6#
87 12.1 10.4 15.6

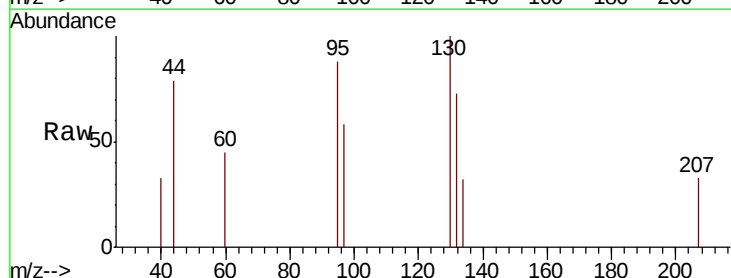


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

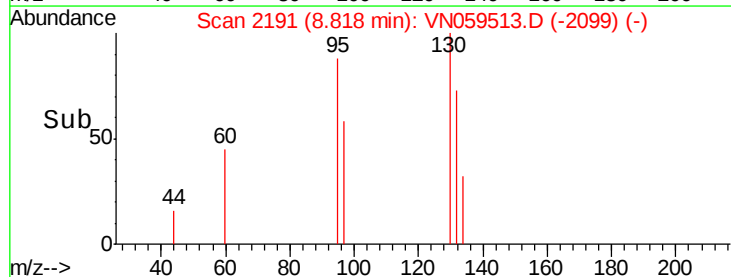
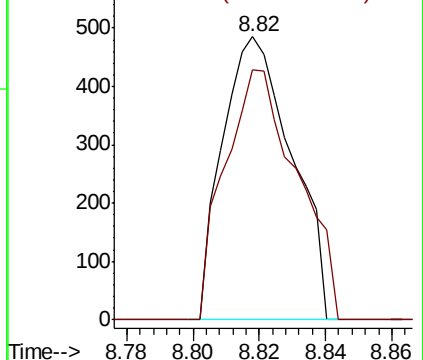


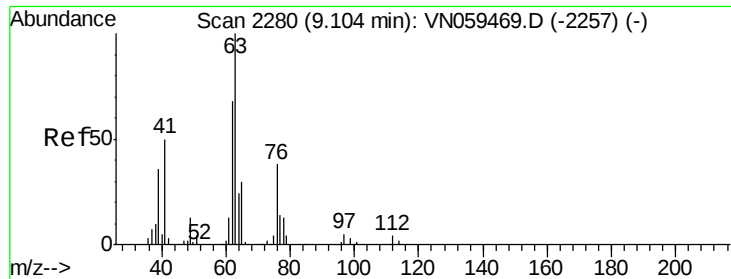
#44
Trichloroethene
Concen: 0.236 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Tgt Ion:130 Resp: 705
Ion Ratio Lower Upper
130 100
95 88.5 0.0 203.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

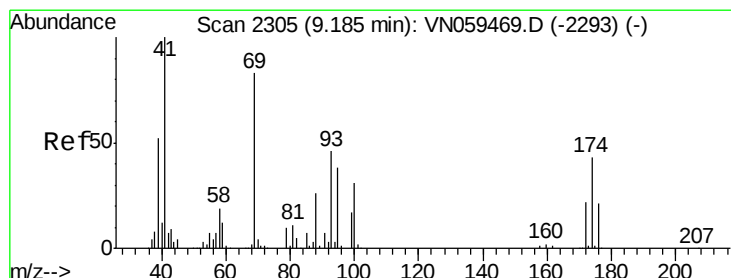
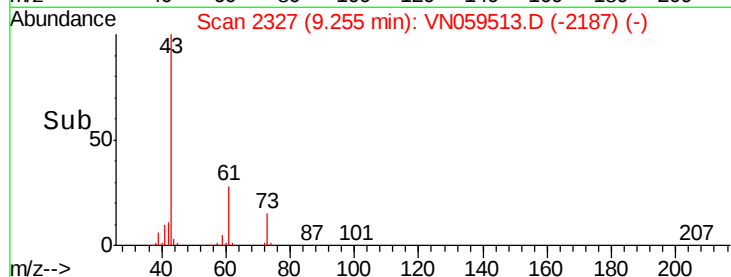
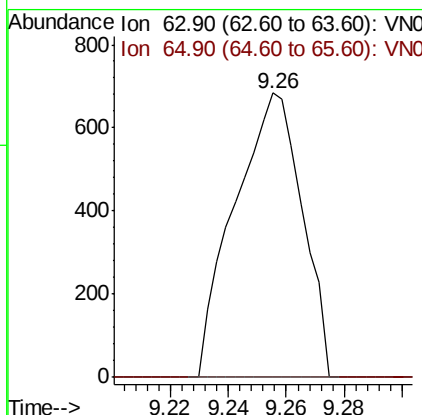
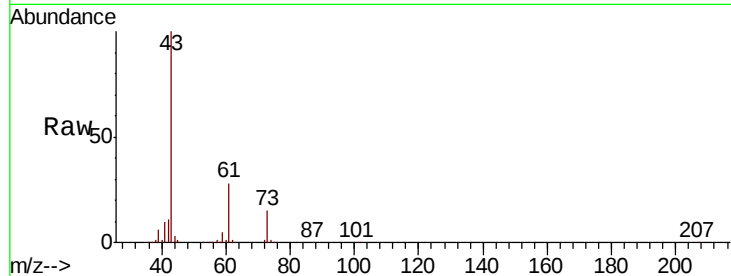




#45
 1,2-Dichloropropane
 Concen: 0.361 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

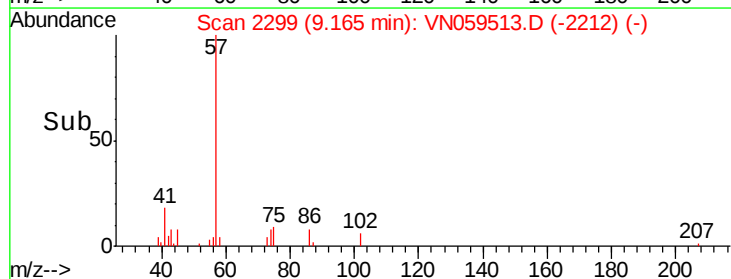
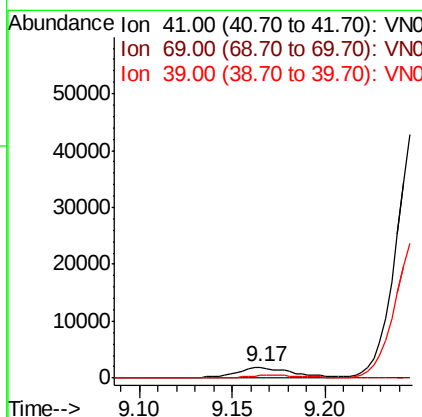
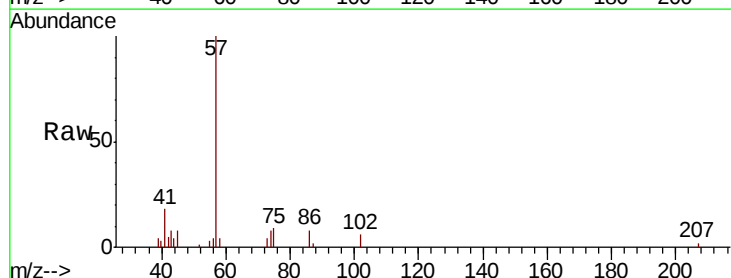
Instrument :
 MSVOA_N
 ClientSampleId :

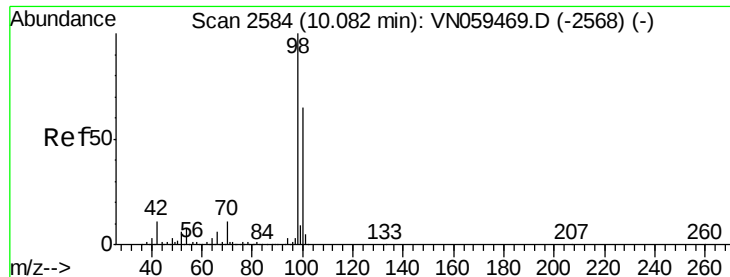
Tot Ion: 63 Resp: 1100
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.325 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

Tgt Ion: 41 Resp: 3871
 Ion Ratio Lower Upper
 41 100
 69 0.0 68.6 103.0#
 39 0.0 43.2 64.8#





#50

Toluene-d8

Concen: 51.303 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

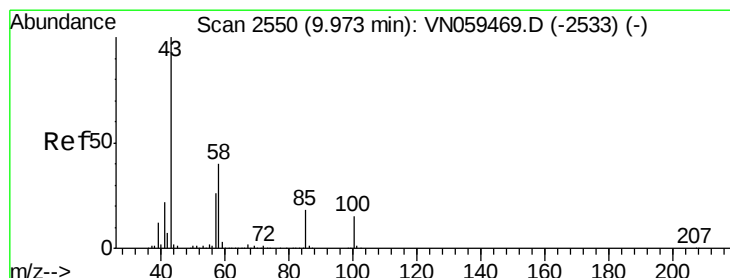
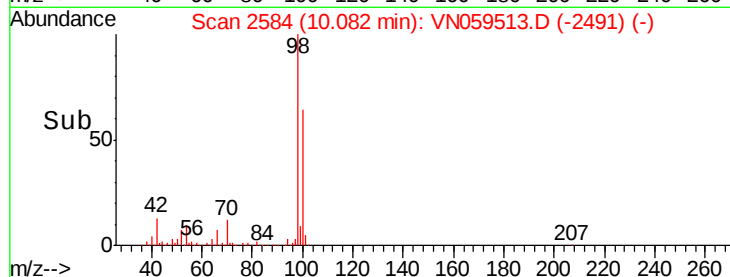
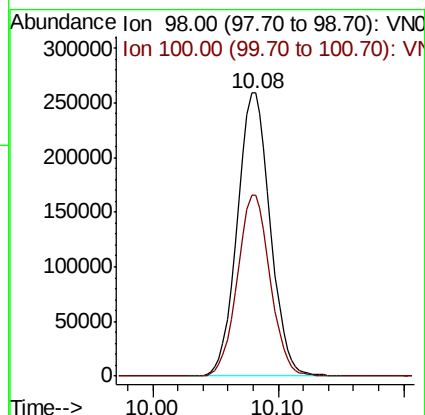
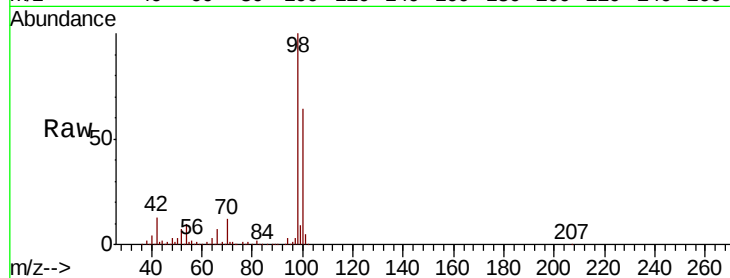
ClientSampleId :

Tot Ion: 98 Resp: 471915

Ion Ratio Lower Upper

98 100

100 64.0 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 1.651 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059513.D

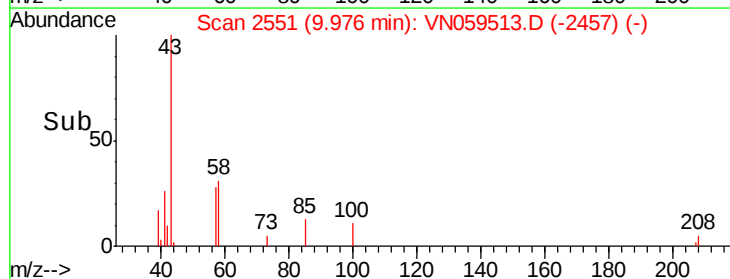
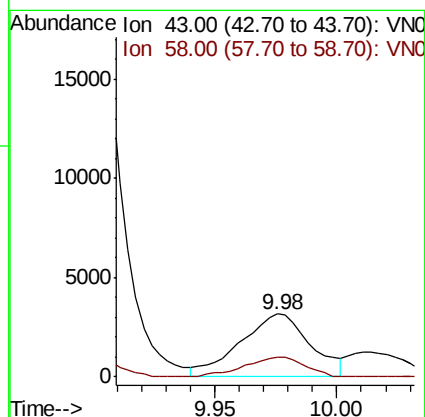
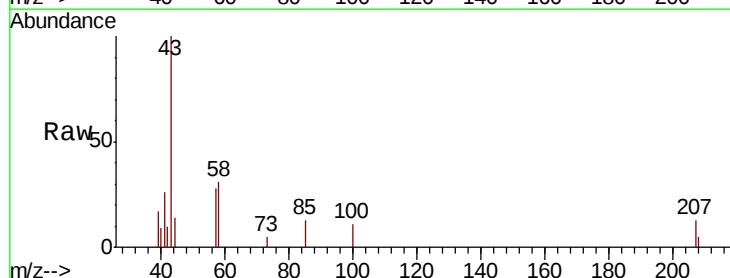
Acq: 6 Dec 2019 14:31

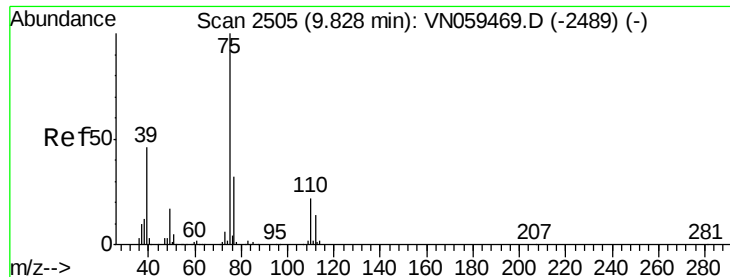
Tgt Ion: 43 Resp: 6346

Ion Ratio Lower Upper

43 100

58 26.8 32.1 48.1#



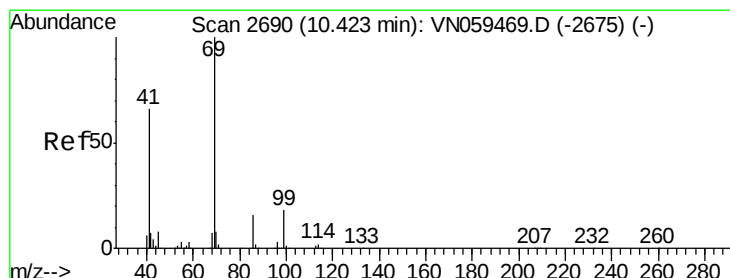
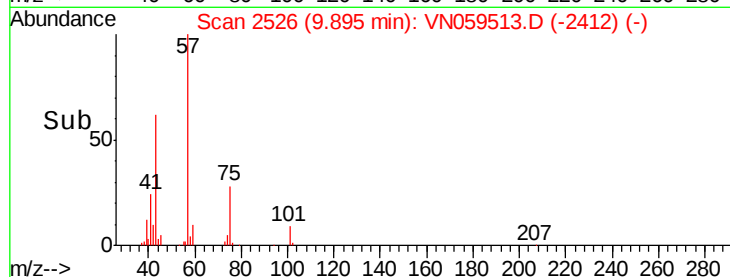
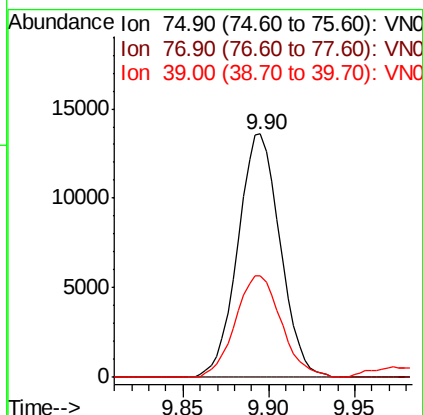
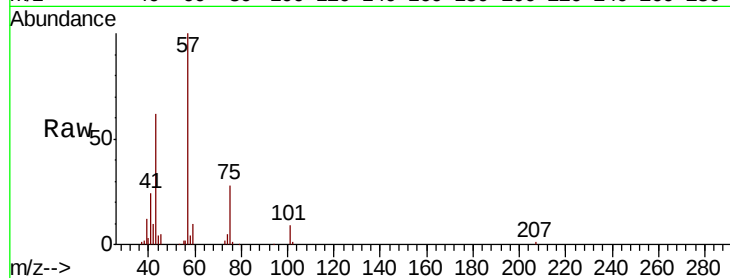


#54

cis-1,3-Dichloropropene
Concen: 4.901 ug/l
RT: 9.90 min Scan# 2526
Delta R.T. 0.07 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Instrument :
MSVOA_N
ClientSampleId :

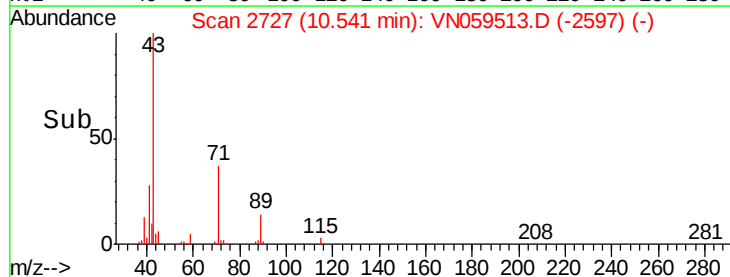
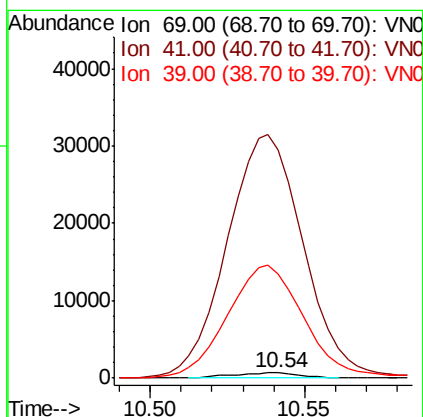
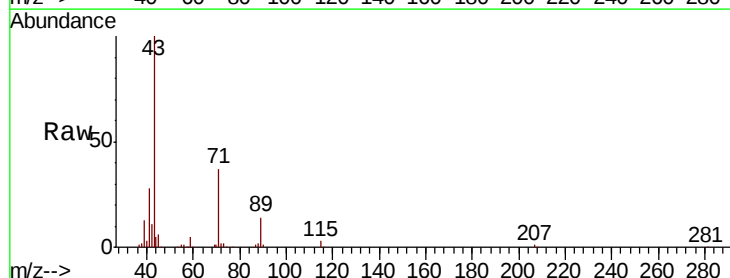
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.7	38.5#
39	41.9	36.6	54.8

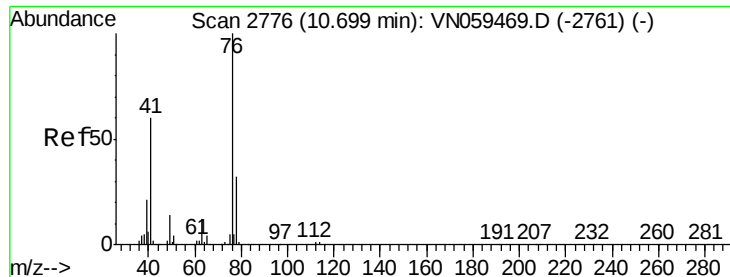


#56

Ethyl methacrylate
Concen: 1.680 ug/l
RT: 10.54 min Scan# 2727
Delta R.T. 0.12 min
Lab File: VN059513.D
Acq: 6 Dec 2019 14:31

Tgt Ion	Ratio	Lower	Upper
69	100		
41	5243.2	52.7	79.1#
39	2429.3	25.0	37.6#

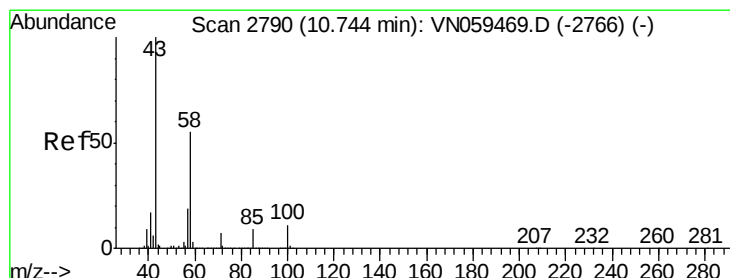
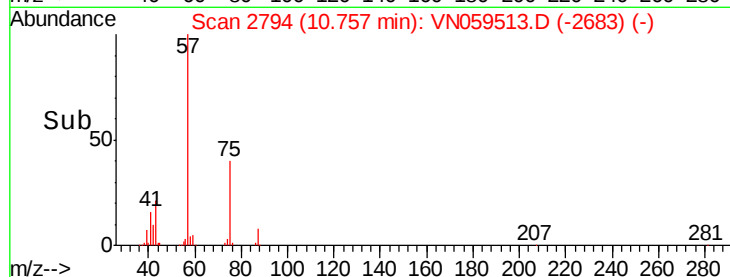
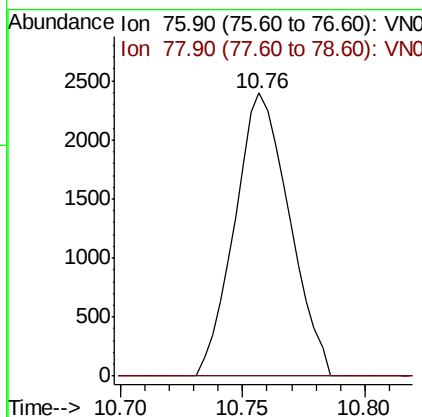
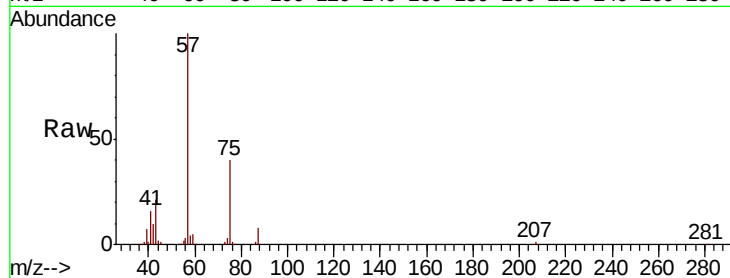




#57
 1,3-Dichloropropane
 Concen: 0.791 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

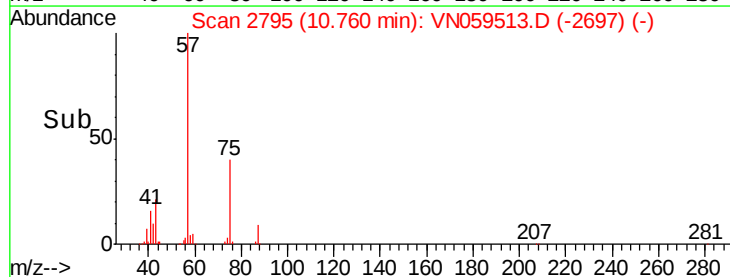
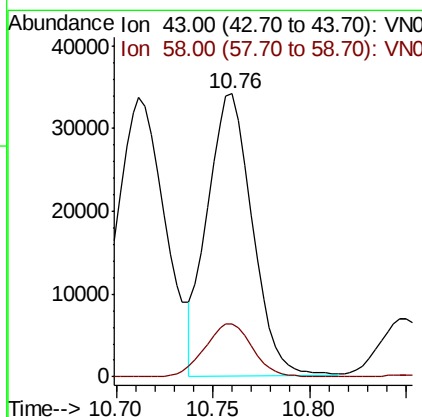
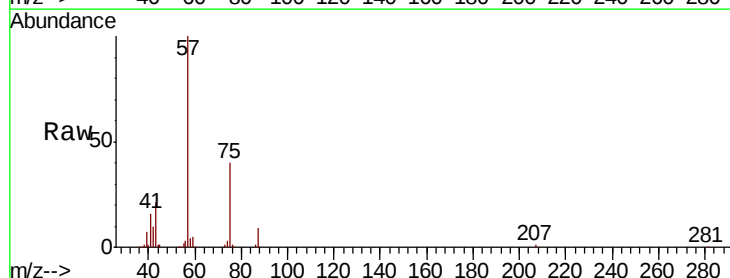
Instrument :
 MSVOA_N
 ClientSampled :

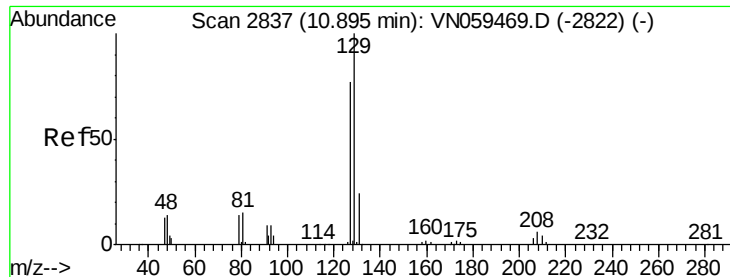
Tot Ion: 76 Resp: 3721
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 19.062 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.02 min
 Lab File: VN059513.D
 Acq: 6 Dec 2019 14:31

Tgt Ion: 43 Resp: 55146
 Ion Ratio Lower Upper
 43 100
 58 19.9 27.7 83.0#





#60

Dibromochloromethane

Concen: 0.304 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.27 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

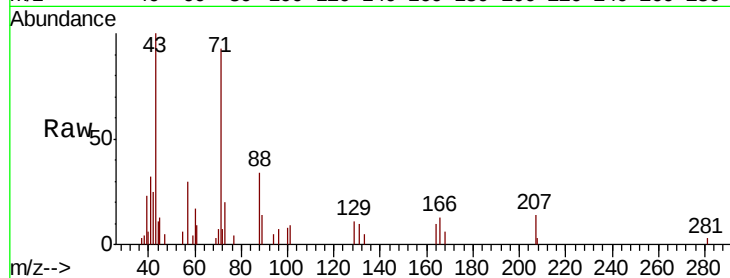
ClientSampleId :

Tot Ion:129 Resp: 883

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.62

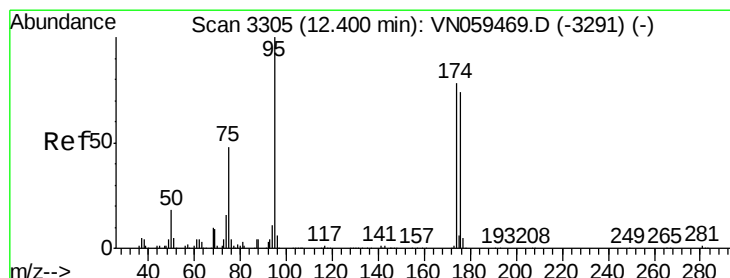
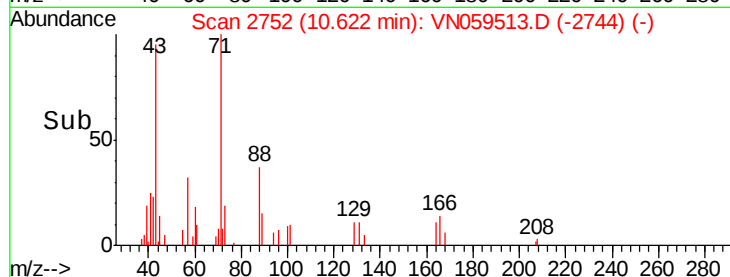
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.064 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

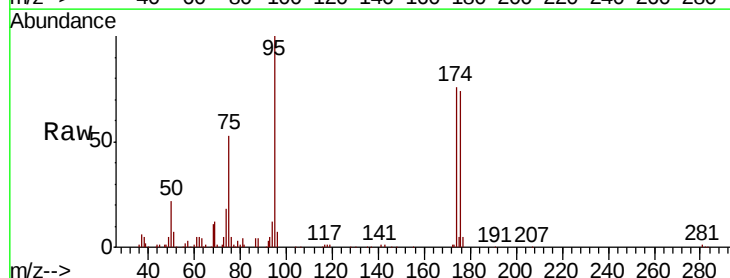
Tgt Ion: 95 Resp: 147979

Ion Ratio Lower Upper

95 100

174 77.4 0.0 157.0

176 74.9 0.0 152.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

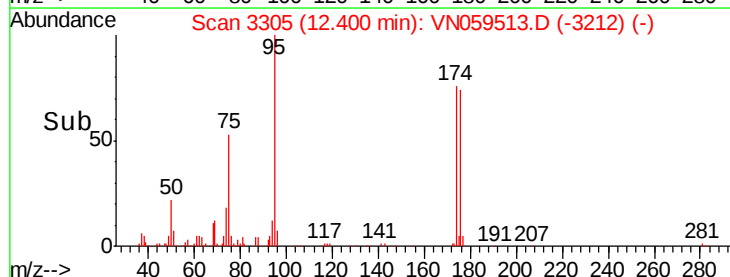
60000

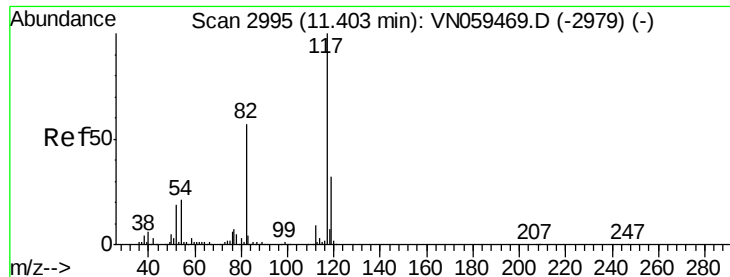
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

ClientSampled :

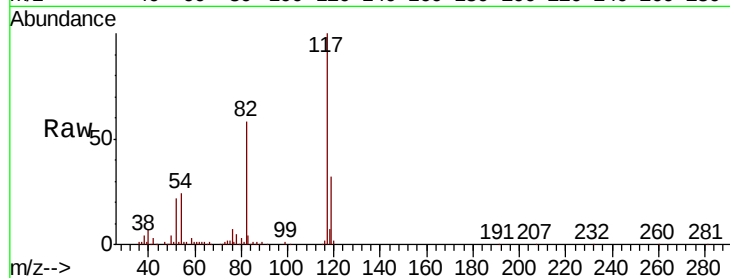
Tot Ion:117 Resp: 341242

Ion Ratio Lower Upper

117 100

82 57.6 45.8 68.8

119 32.0 25.4 38.0

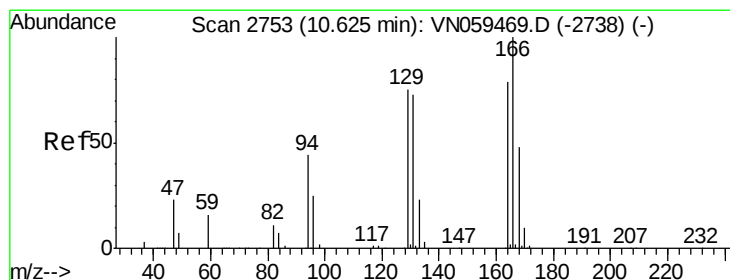
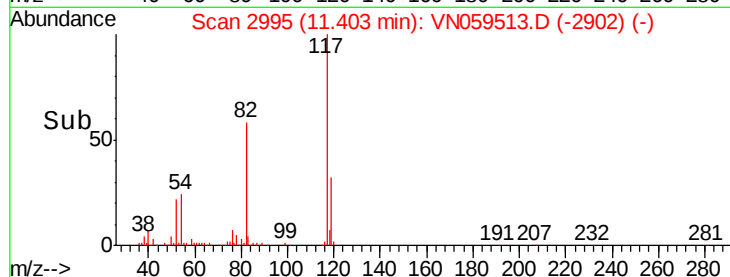
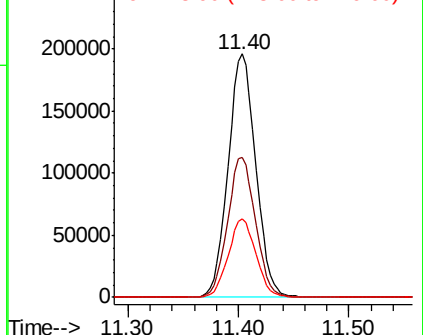


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.332 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Tgt Ion:164 Resp: 965

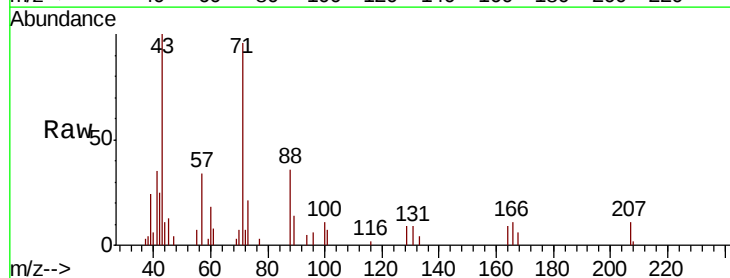
Ion Ratio Lower Upper

164 100

166 122.0 101.2 151.8

129 97.6 76.1 114.1

131 97.8 73.7 110.5



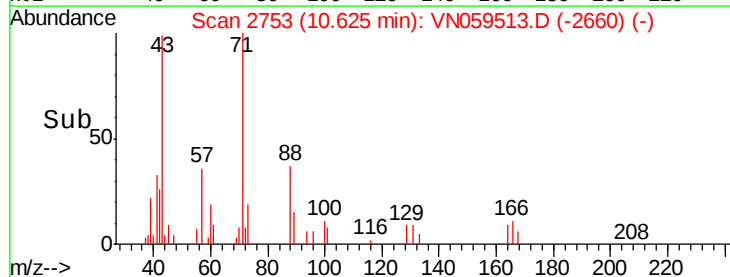
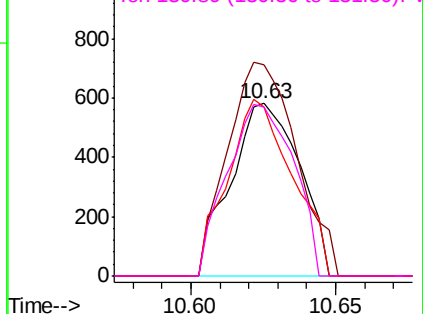
Abundance

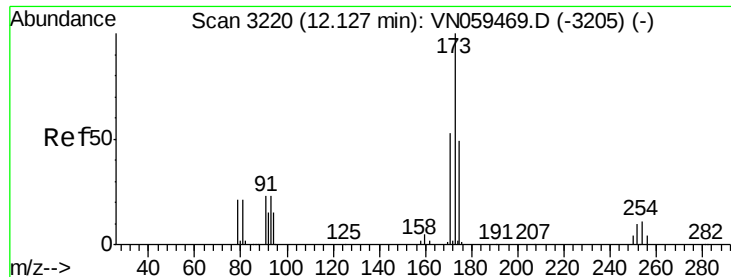
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.454 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

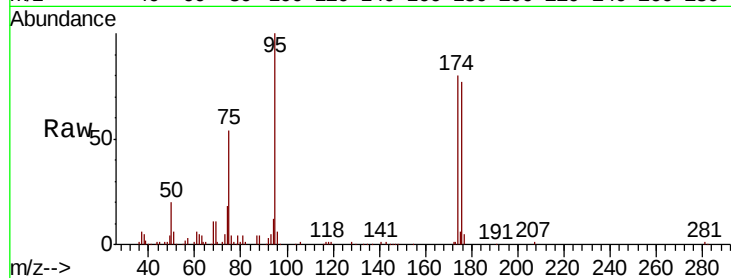
Tot Ion:173 Resp: 949

Ion Ratio Lower Upper

173 100

175 764.5 24.3 73.0#

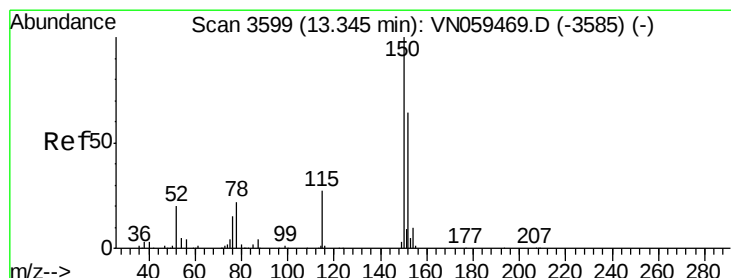
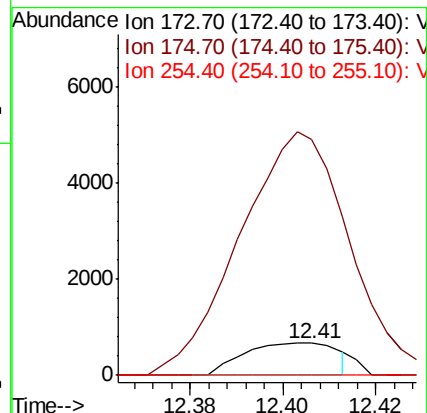
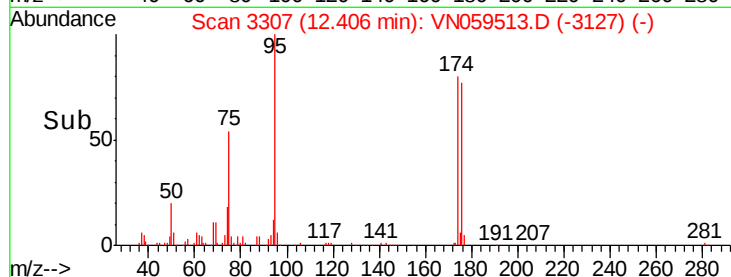
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

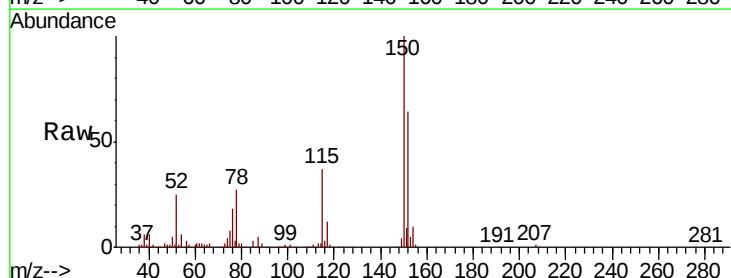
Tgt Ion:152 Resp: 122598

Ion Ratio Lower Upper

152 100

115 59.5 29.2 87.6

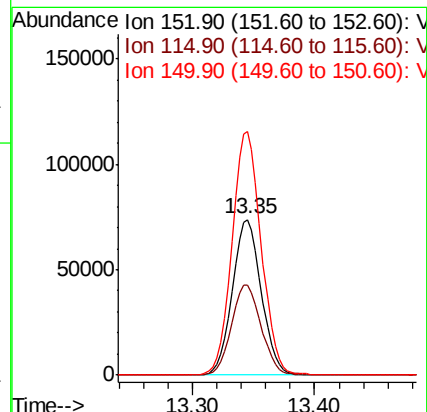
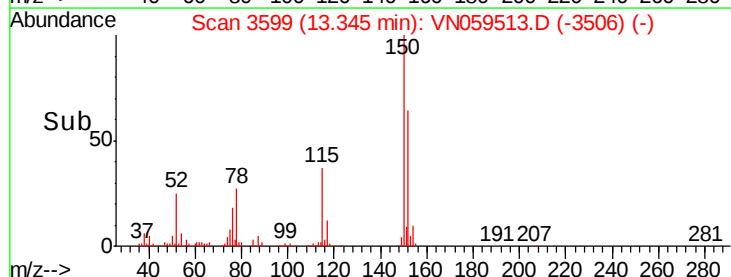
150 156.7 0.0 352.8

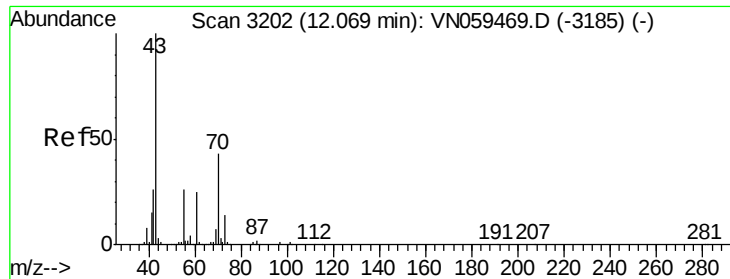


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.746 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2953

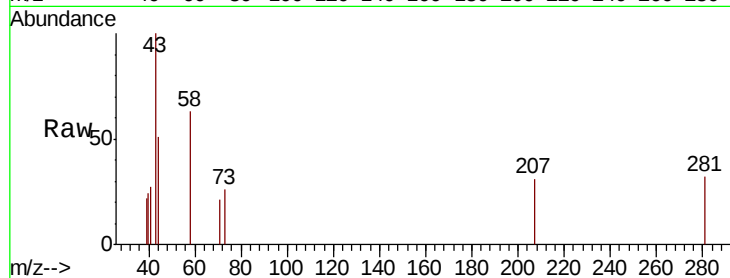
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 0.0 20.6 31.0#

61 0.0 19.3 28.9#

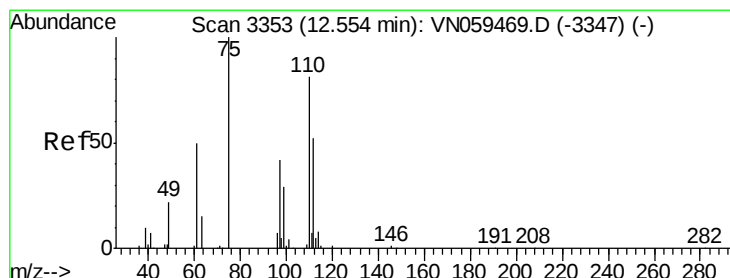
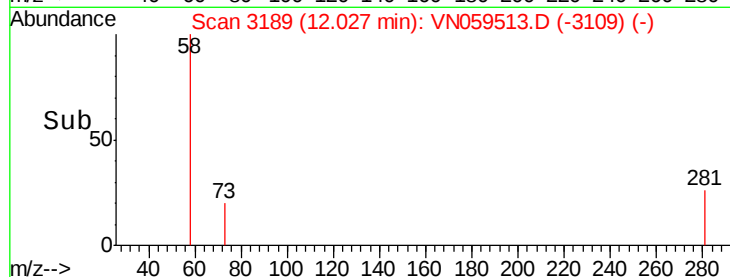
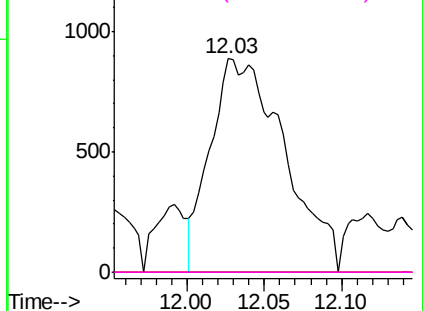


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 26.109 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059513.D

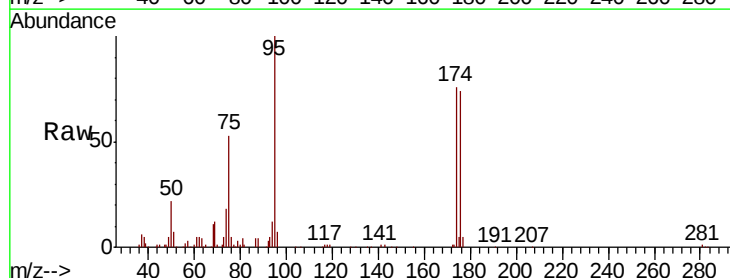
Acq: 6 Dec 2019 14:31

Tgt Ion: 75 Resp: 79589

Ion Ratio Lower Upper

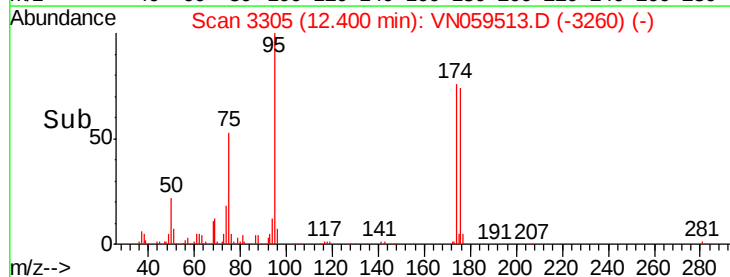
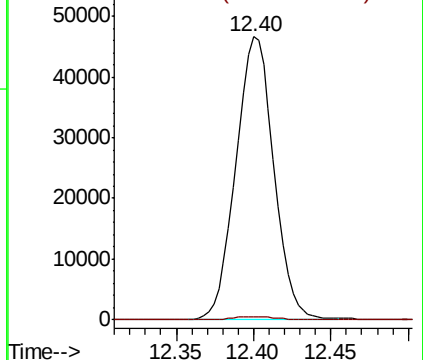
75 100

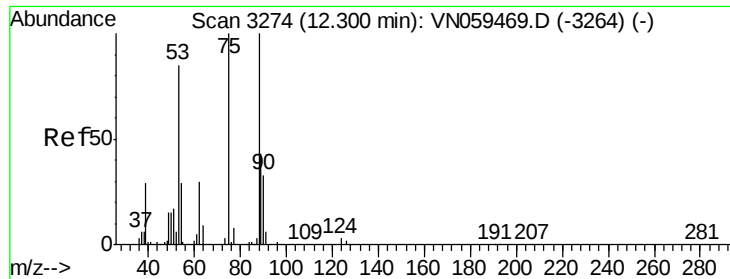
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 68.520 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

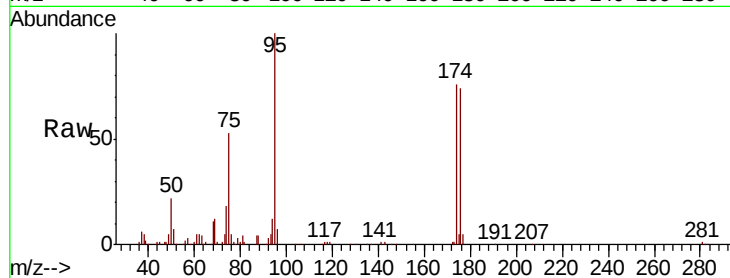
Tot Ion: 75 Resp: 79589

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

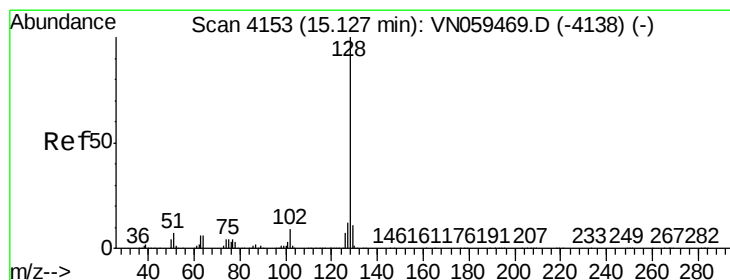
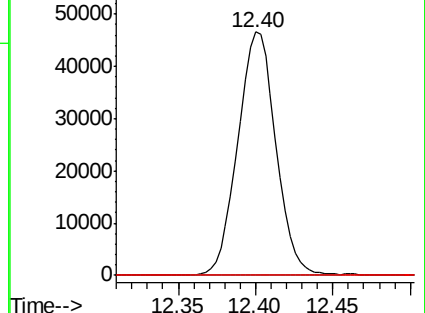
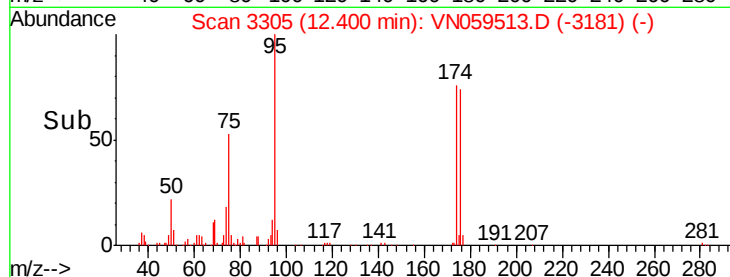
89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059513.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN059513.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN059513.D (-3181) (-)



#95

Naphthalene

Concen: 2.480 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN059513.D

Acq: 6 Dec 2019 14:31

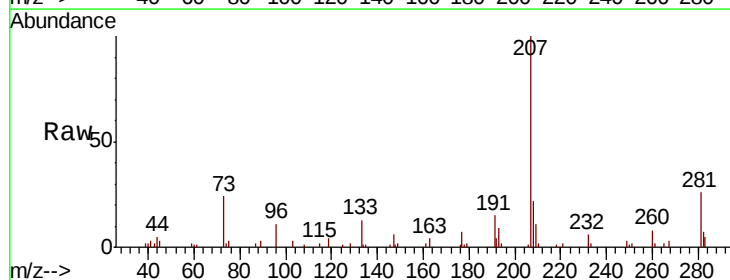
Tgt Ion: 128 Resp: 386

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN059513.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN059513.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN059513.D (-4060) (-)

