

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059239.D
 Acq On : 14 Nov 2019 17:12
 Operator : JC/SP
 Sample : K5842-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 06:32:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	444827	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	688846	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	589903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	214672	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	275037	50.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.60%	
35) Dibromofluoromethane	7.57	113	214450	52.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.28%	
50) Toluene-d8	10.08	98	820968	50.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.40	95	263105	45.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	90.08%	

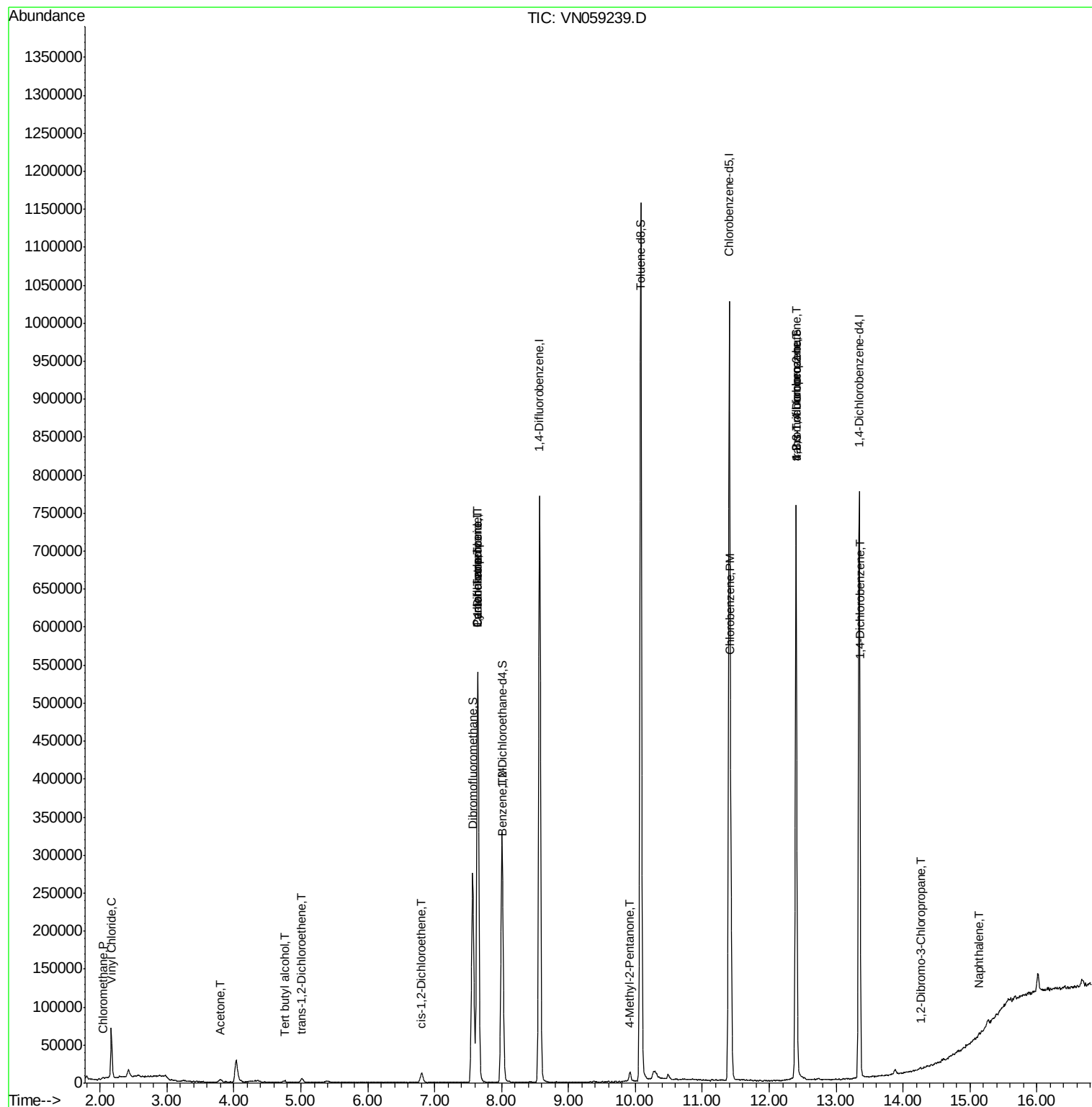
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1292	0.212	ug/l #	80
4) Vinyl Chloride	2.17	62	60778	10.290	ug/l	97
11) Tert butyl alcohol	4.75	59	3683	3.534	ug/l #	82
16) Acetone	3.79	43	5334	1.876	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	3588	0.806	ug/l	93
27) cis-1,2-Dichloroethene	6.81	96	8237	1.594	ug/l	88
31) Cyclohexane	7.64	56	8819	1.036	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	34039	5.287	ug/l #	50
38) Carbon Tetrachloride	7.65	117	42579	6.644	ug/l #	16
40) Benzene	8.03	78	16902	0.872	ug/l #	86
51) 4-Methyl-2-Pentanone	9.92	43	6409	0.992	ug/l #	36
65) Chlorobenzene	11.43	112	111196	9.670	ug/l	97
76) 1,2,3-Trichloropropane	12.40	75	129212	26.438	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	129212	69.830	ug/l #	13
88) 1,4-Dichlorobenzene	13.36	146	3235	0.481	ug/l #	70
92) 1,2-Dibromo-3-Chloropropan	14.26	75	189	0.204	ug/l #	12
95) Naphthalene	15.13	128	272	3.068	ug/l #	70

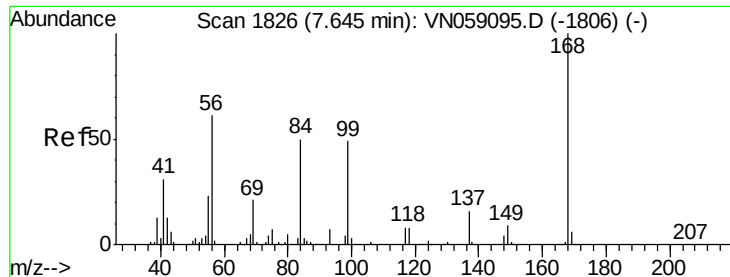
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

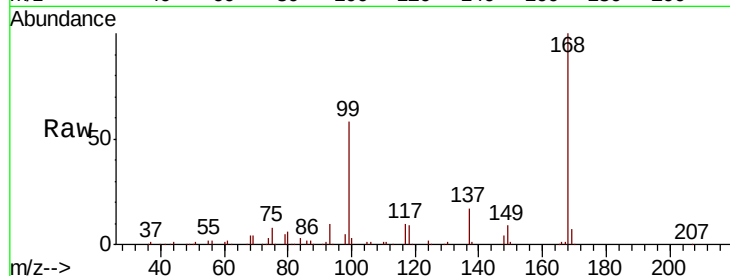
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 444827

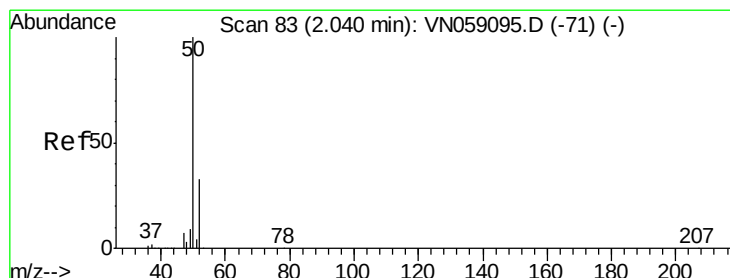
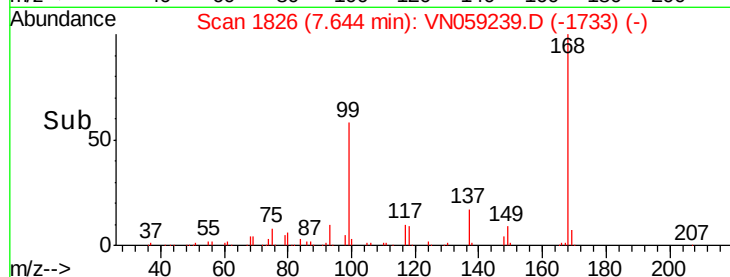
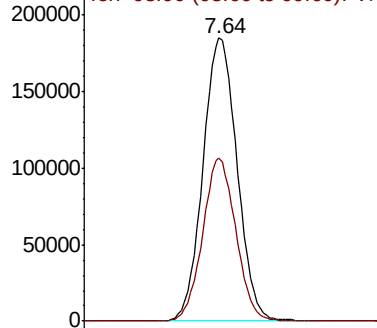
Ion Ratio Lower Upper

168 100

99 57.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.212 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059239.D

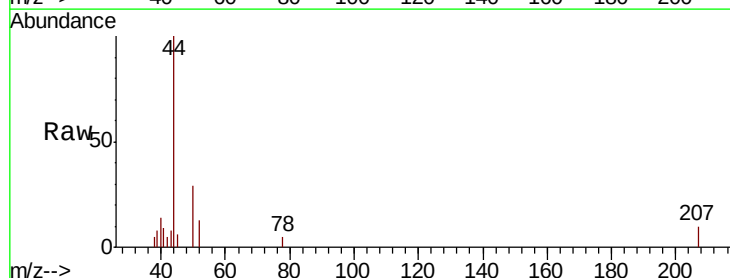
Acq: 14 Nov 2019 17:12

Tgt Ion: 50 Resp: 1292

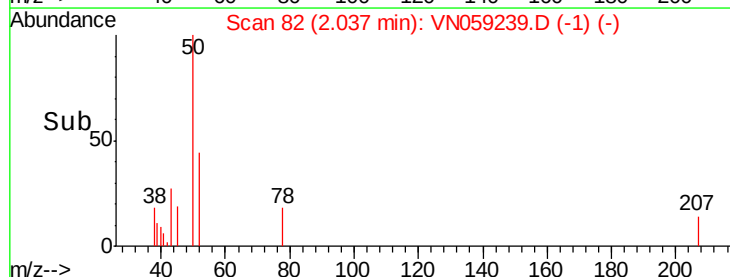
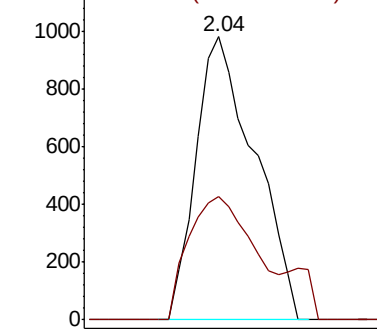
Ion Ratio Lower Upper

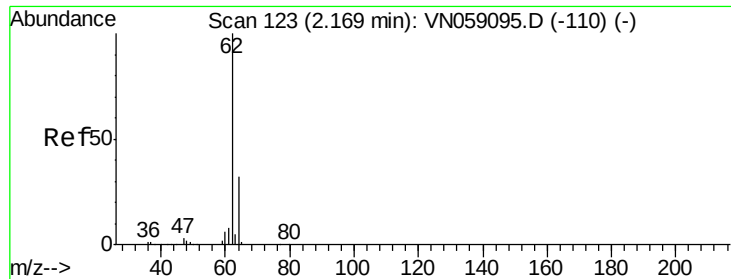
50 100

52 43.5 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN
Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 10.290 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

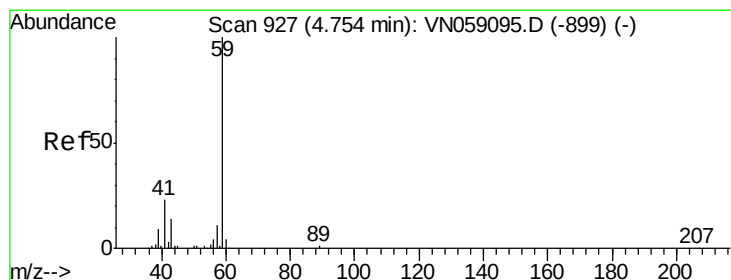
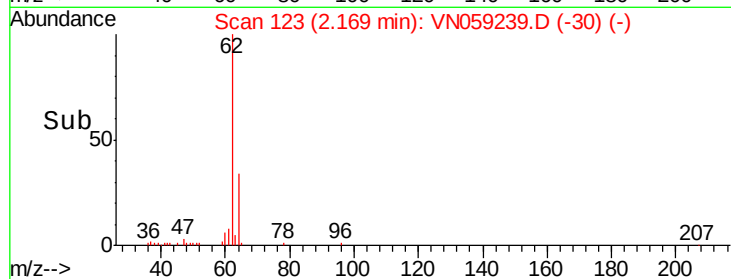
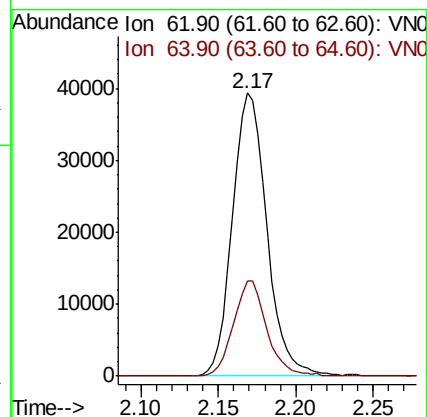
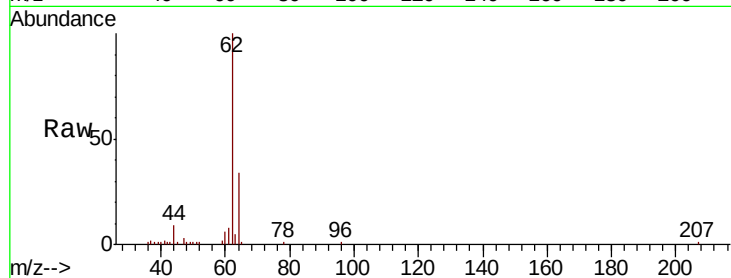
ClientSampled :

Tot Ion: 62 Resp: 60778

Ion Ratio Lower Upper

62 100

64 33.7 25.4 38.2



#11

Tert butyl alcohol

Concen: 3.534 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN059239.D

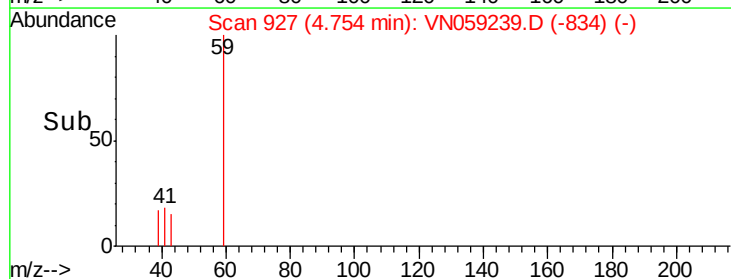
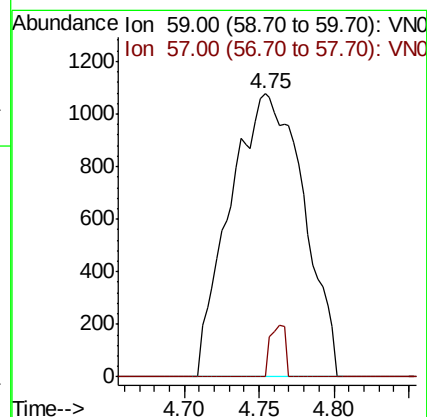
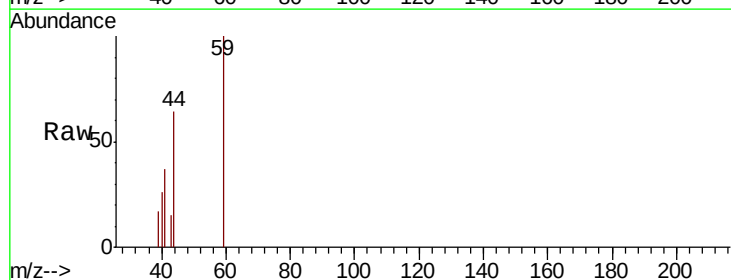
Acq: 14 Nov 2019 17:12

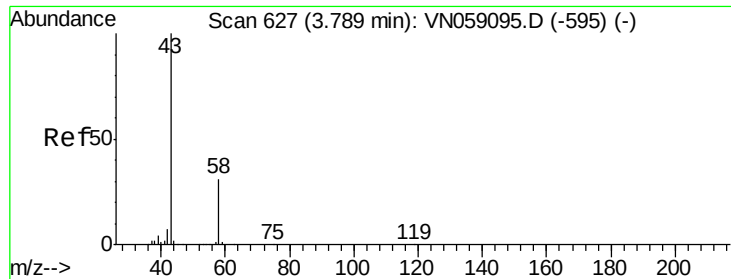
Tgt Ion: 59 Resp: 3683

Ion Ratio Lower Upper

59 100

57 3.7 8.3 12.5#





#16

Acetone

Concen: 1.876 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

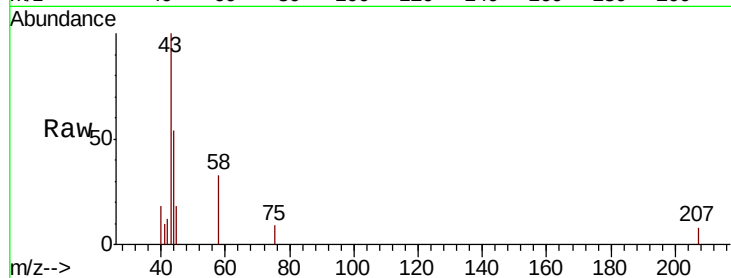
ClientSampled :

Tot Ion: 43 Resp: 5334

Ion Ratio Lower Upper

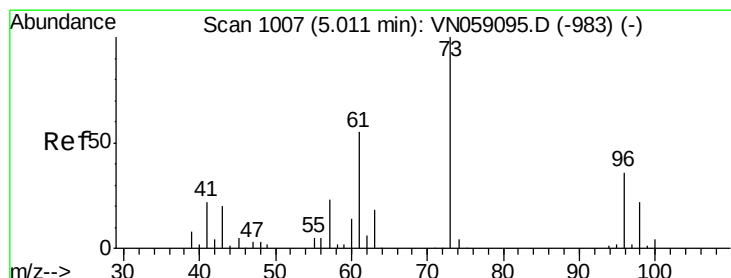
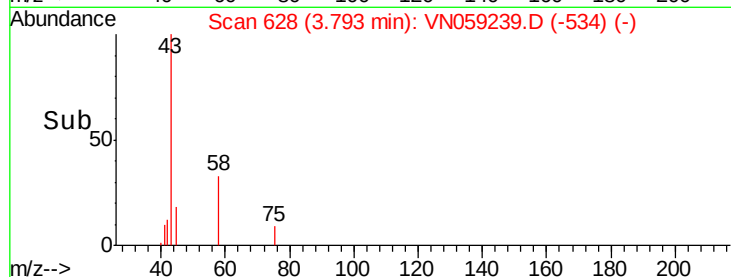
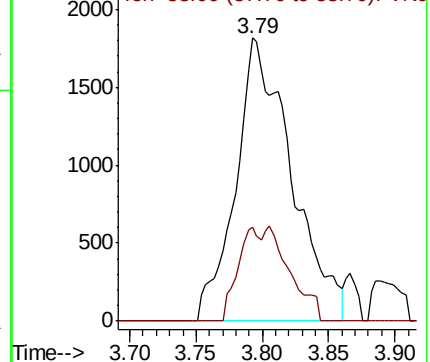
43 100

58 33.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.806 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

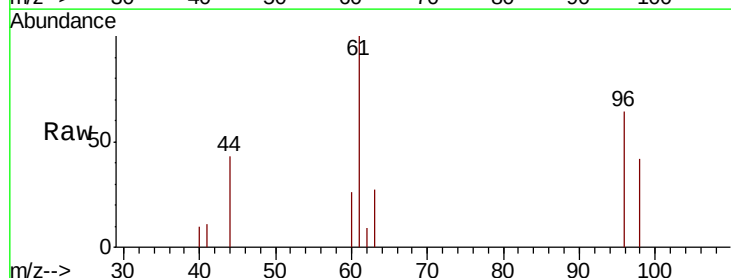
Tgt Ion: 96 Resp: 3588

Ion Ratio Lower Upper

96 100

61 142.1 122.6 183.8

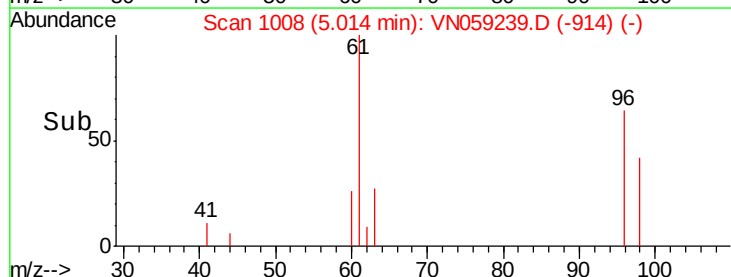
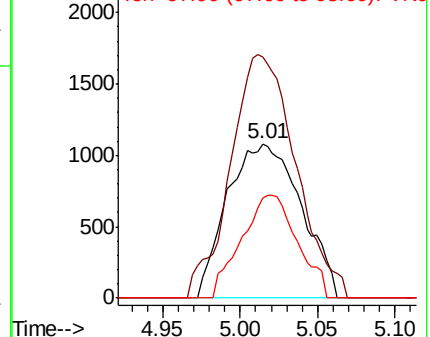
98 65.4 50.3 75.5

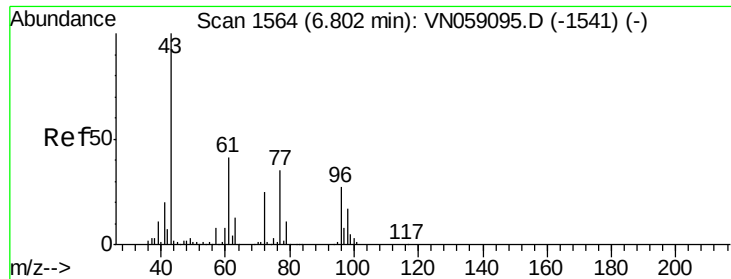


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 1.594 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

ClientSampled :

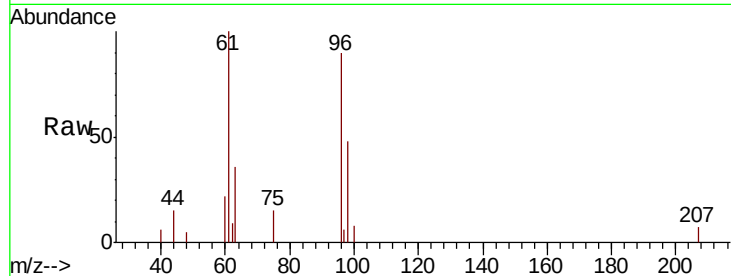
Tot Ion: 96 Resp: 8237

Ion Ratio Lower Upper

96 100

61 133.9 0.0 311.6

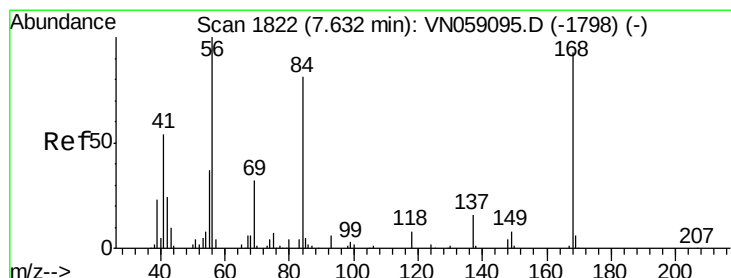
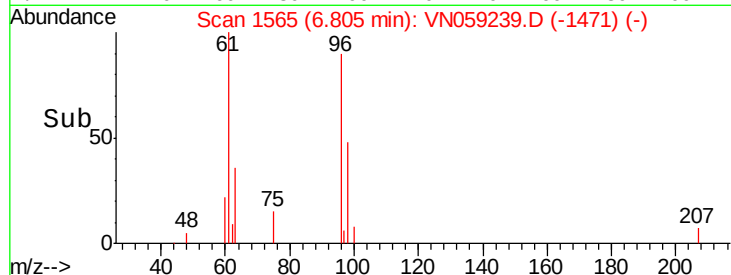
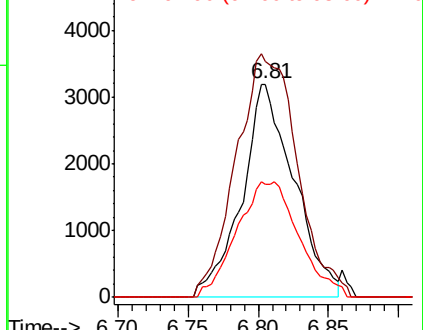
98 64.4 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN059239.D (-1541) (-)

Ion 60.90 (60.60 to 61.60): VN059239.D (-1541) (-)

Ion 97.90 (97.60 to 98.60): VN059239.D (-1541) (-)



#31

Cyclohexane

Concen: 1.036 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

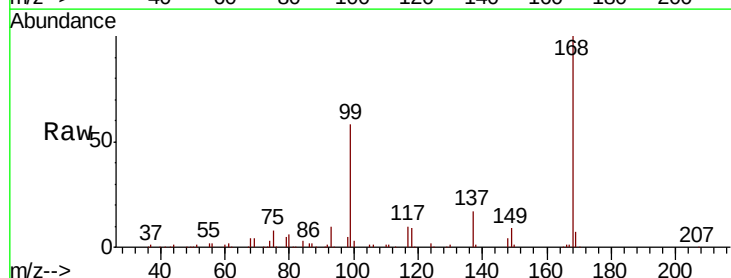
Tgt Ion: 56 Resp: 8819

Ion Ratio Lower Upper

56 100

69 191.5 25.8 38.8#

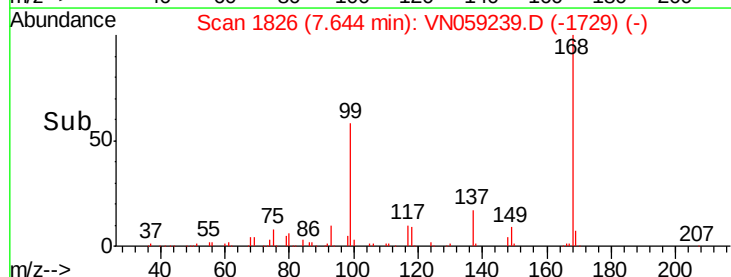
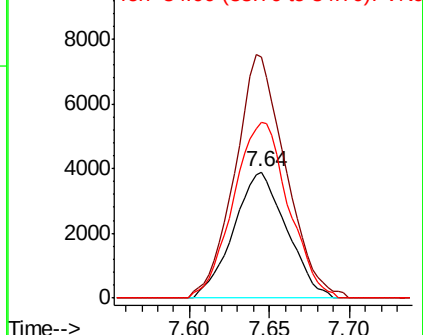
84 140.1 65.0 97.4#

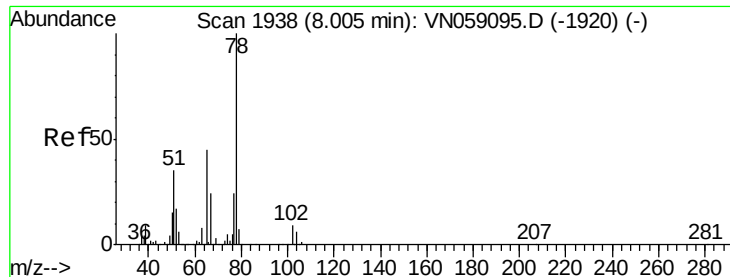


Abundance Ion 56.00 (55.70 to 56.70): VN059239.D (-1798) (-)

Ion 69.00 (68.70 to 69.70): VN059239.D (-1798) (-)

Ion 84.00 (83.70 to 84.70): VN059239.D (-1798) (-)

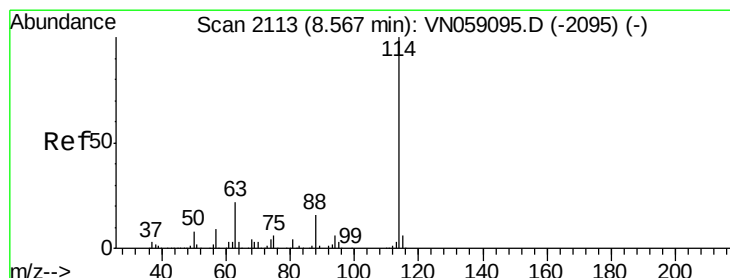
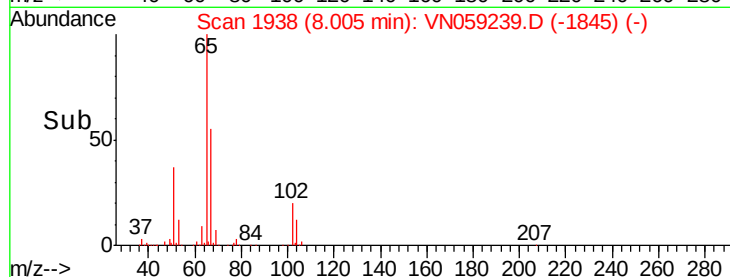
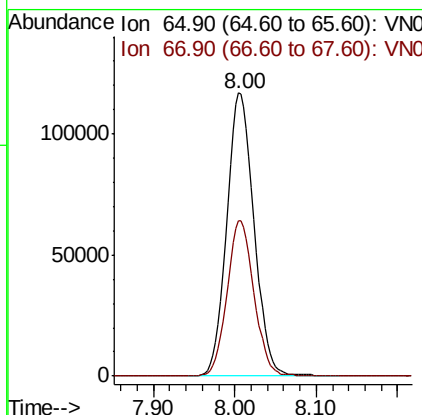
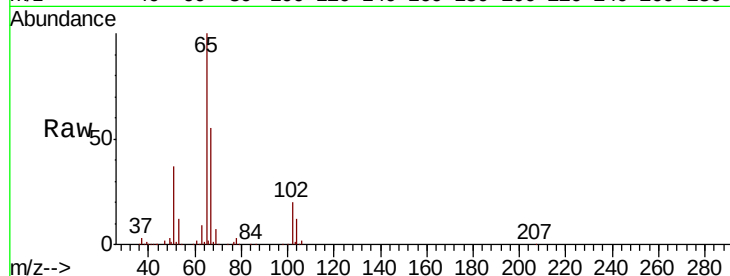




#33
 1,2-Dichloroethane-d4
 Concen: 50.299 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059239.D
 Acq: 14 Nov 2019 17:12

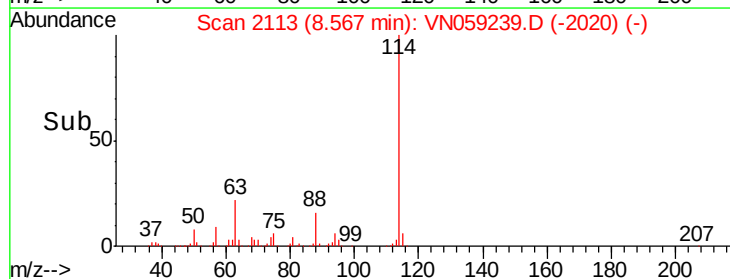
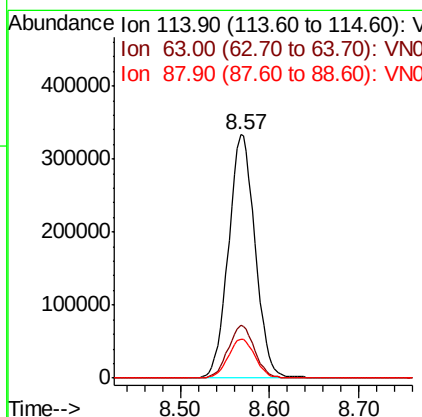
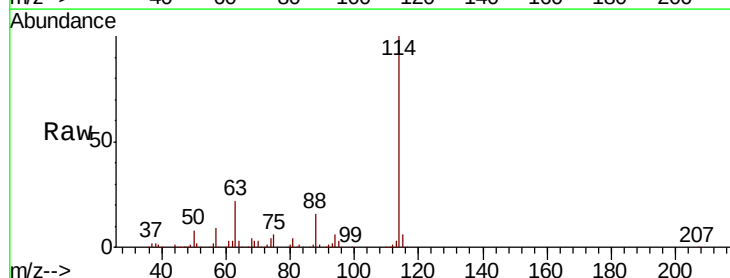
Instrument :
 MSVOA_N
 ClientSampled :

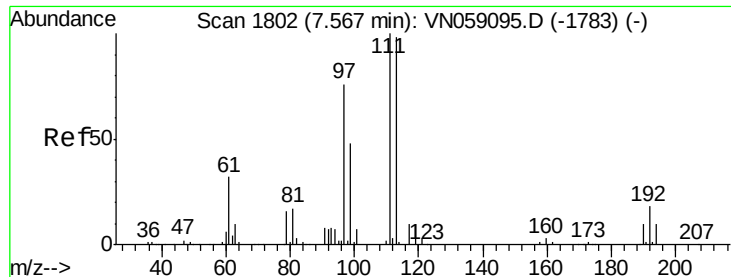
Tot Ion: 65 Resp: 275037
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059239.D
 Acq: 14 Nov 2019 17:12

Tgt Ion: 114 Resp: 688846
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.4
 88 16.2 0.0 32.2

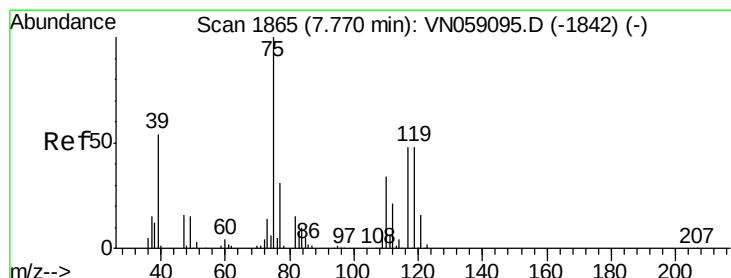
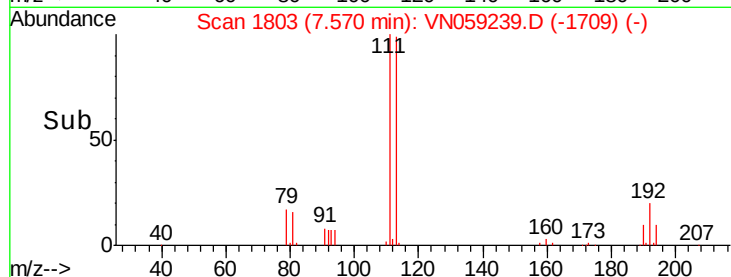
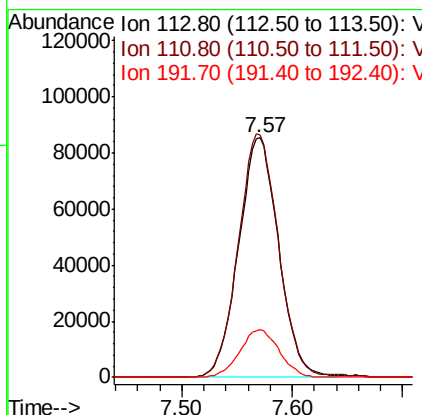
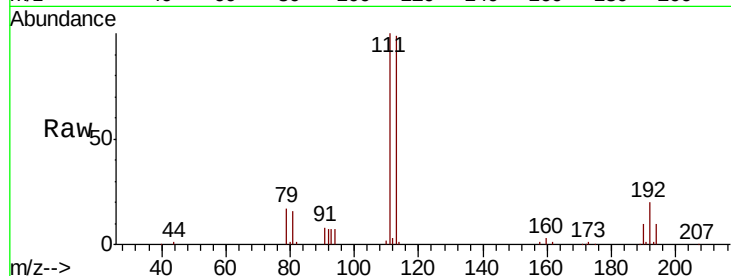




#35
 Dibromofluoromethane
 Concen: 52.139 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059239.D
 Acq: 14 Nov 2019 17:12

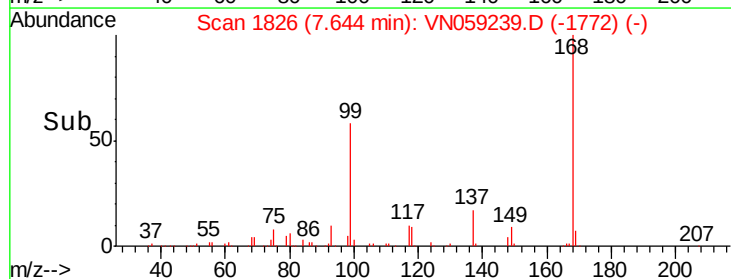
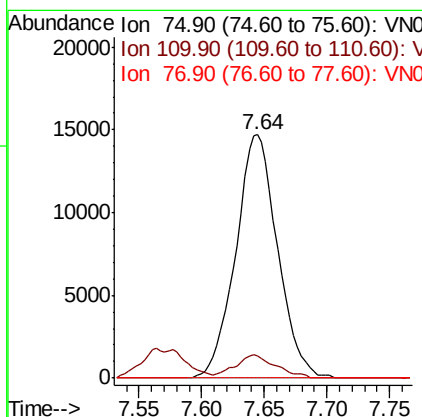
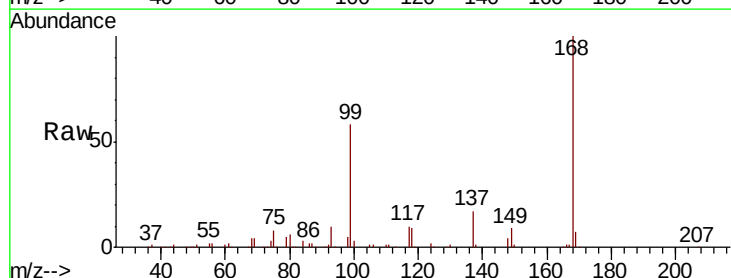
Instrument :
 MSVOA_N
 ClientSampled :

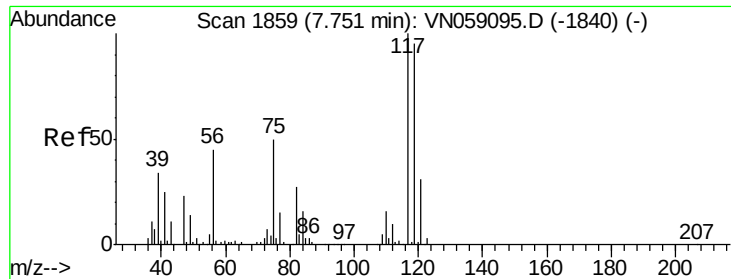
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.8	124.2
192	19.7	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.287 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059239.D
 Acq: 14 Nov 2019 17:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.1	51.2#
77	0.0	24.8	37.2#

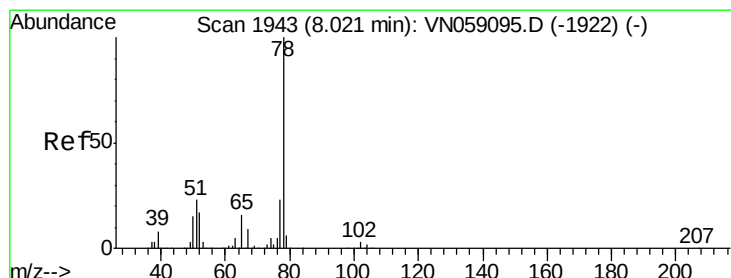
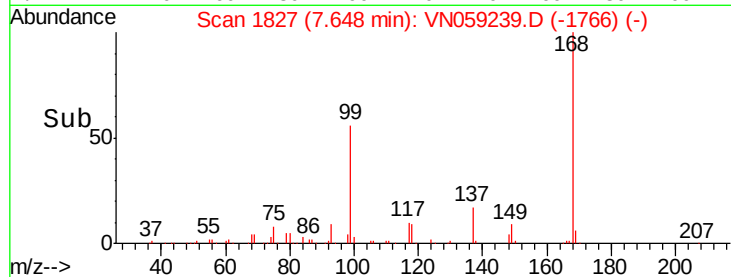
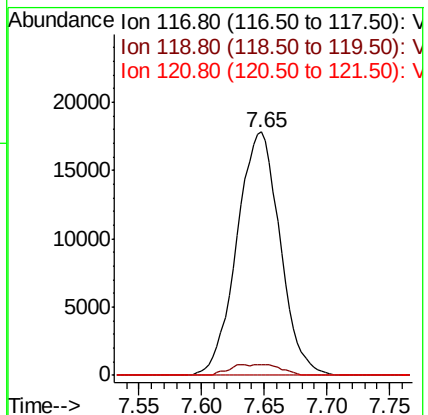
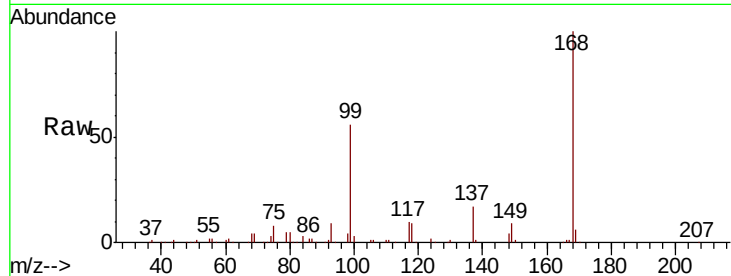




#38
Carbon Tetrachloride
Concen: 6.644 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.10 min
Lab File: VN059239.D
Acq: 14 Nov 2019 17:12

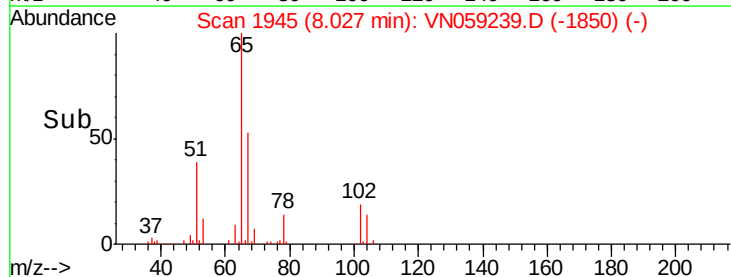
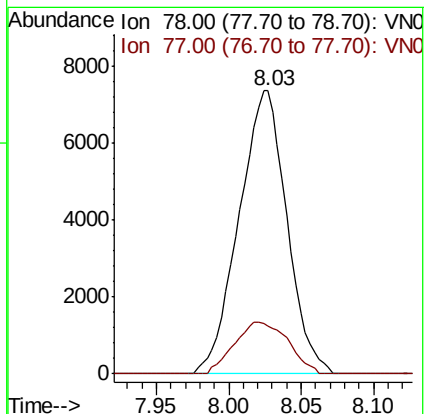
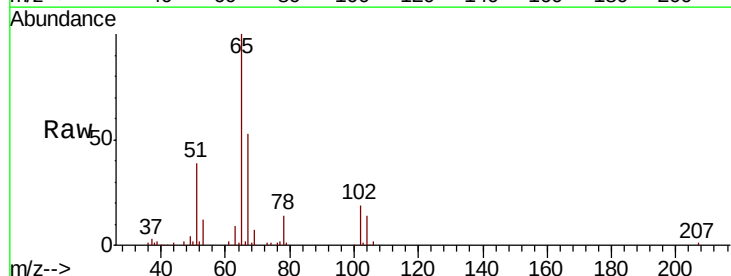
Instrument :
MSVOA_N
ClientSampled :

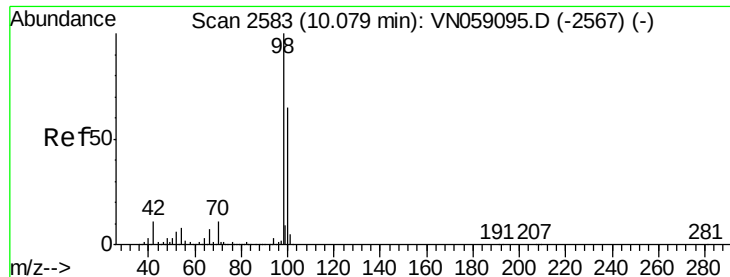
Tot Ion:117 Resp: 42579
Ion Ratio Lower Upper
117 100
119 4.3 75.6 113.4#
121 0.0 24.6 36.8#



#40
Benzene
Concen: 0.872 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.01 min
Lab File: VN059239.D
Acq: 14 Nov 2019 17:12

Tgt Ion: 78 Resp: 16902
Ion Ratio Lower Upper
78 100
77 16.9 18.8 28.2#





#50

Toluene-d8

Concen: 50.674 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

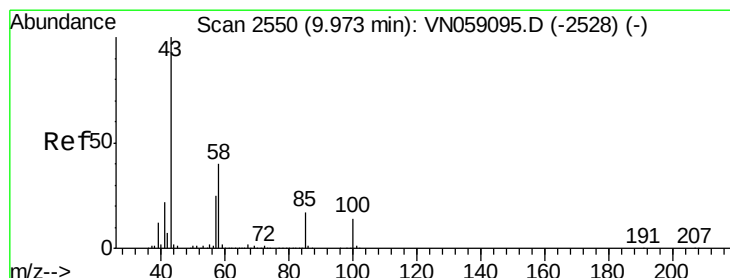
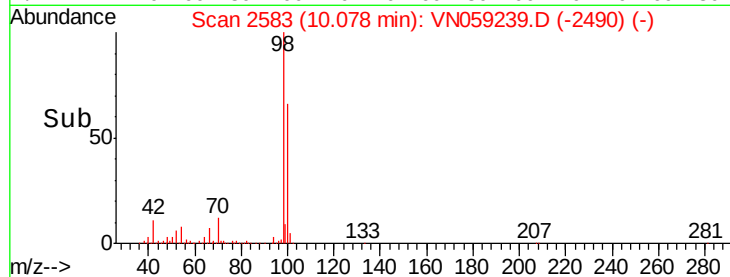
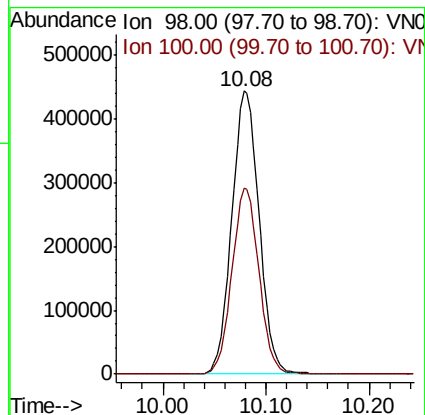
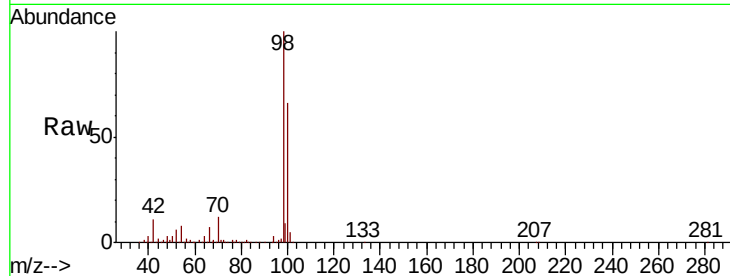
ClientSampled :

Tot Ion: 98 Resp: 820968

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.992 ug/l

RT: 9.92 min Scan# 2534

Delta R.T. -0.05 min

Lab File: VN059239.D

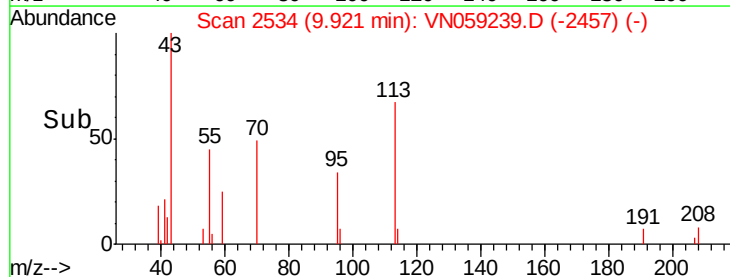
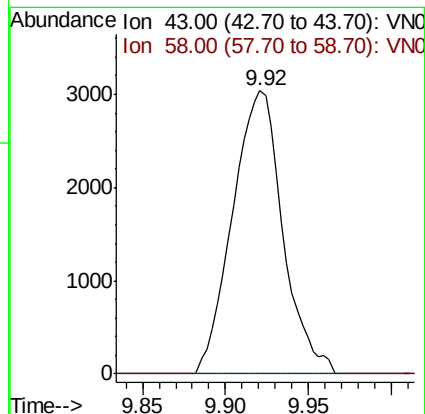
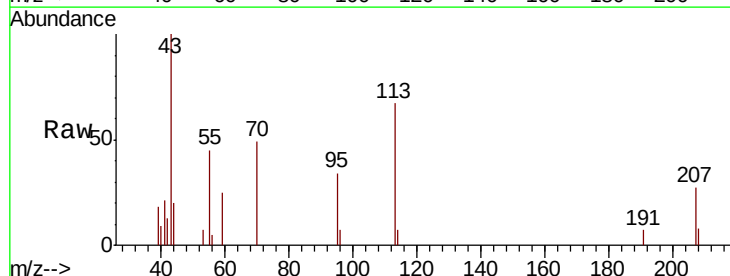
Acq: 14 Nov 2019 17:12

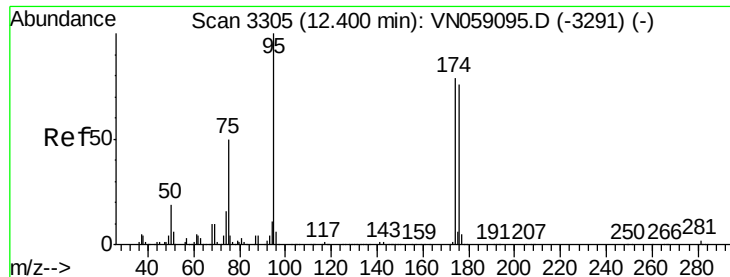
Tgt Ion: 43 Resp: 6409

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#

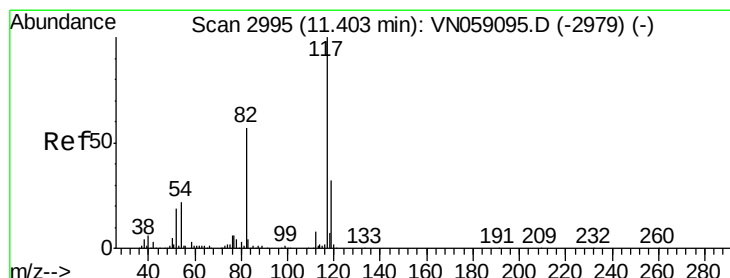
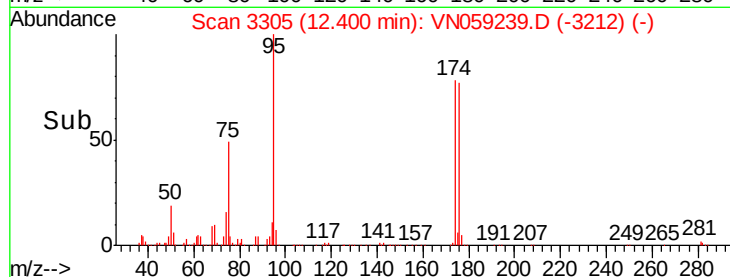
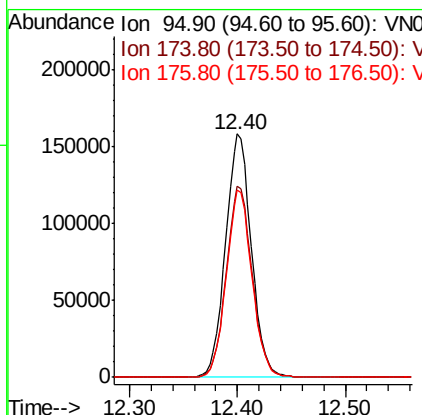
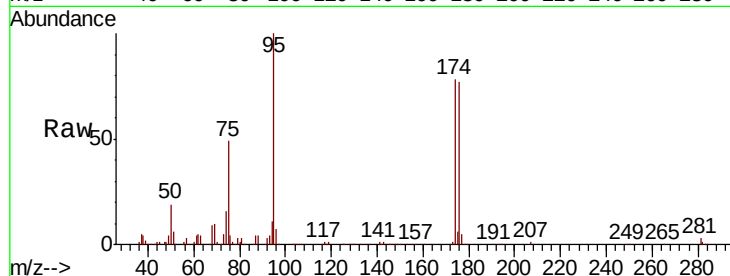




#62
4-Bromofluorobenzene
Concen: 45.041 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059239.D
Acq: 14 Nov 2019 17:12

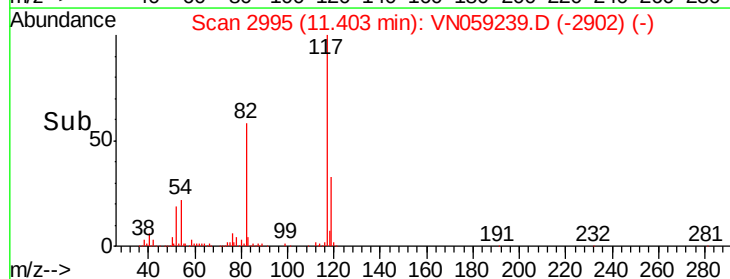
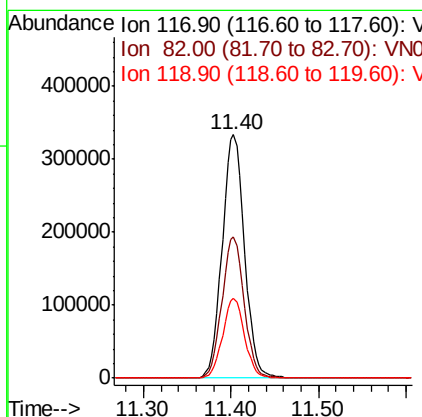
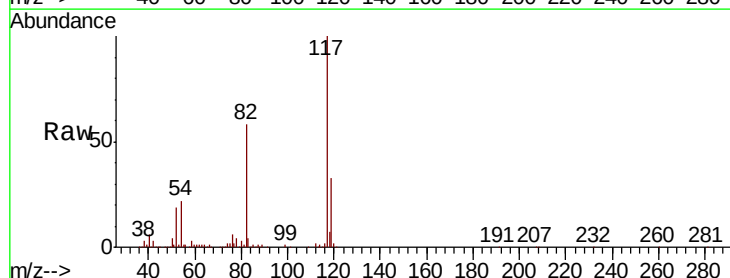
Instrument :
MSVOA_N
ClientSampleId :

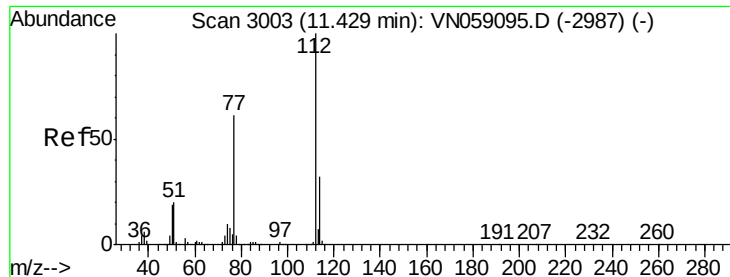
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	158.2
176	76.7	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059239.D
Acq: 14 Nov 2019 17:12

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.8	68.8
119	32.7	25.8	38.6





#65

Chlorobenzene

Concen: 9.670 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

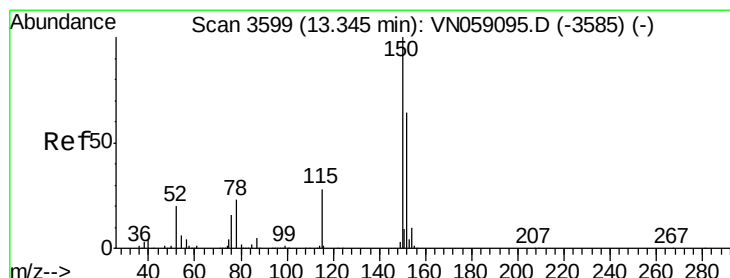
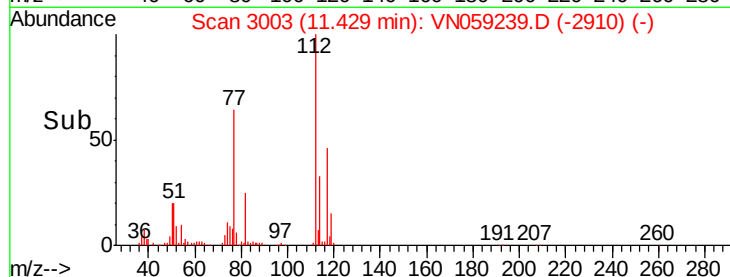
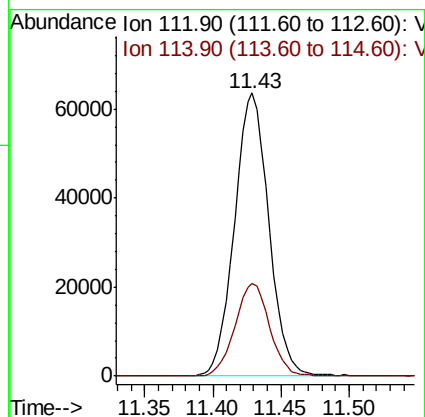
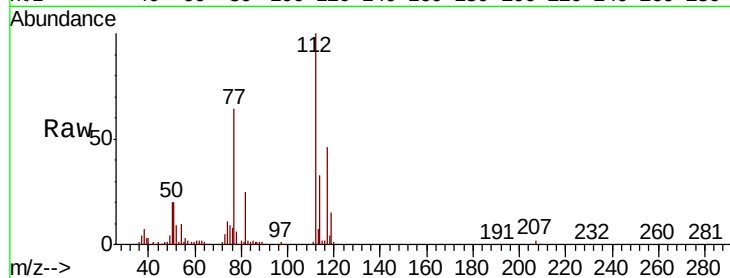
ClientSampleId :

Tot Ion:112 Resp: 111196

Ion Ratio Lower Upper

112 100

114 32.9 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

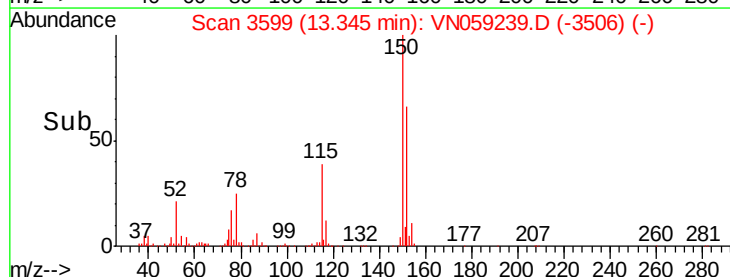
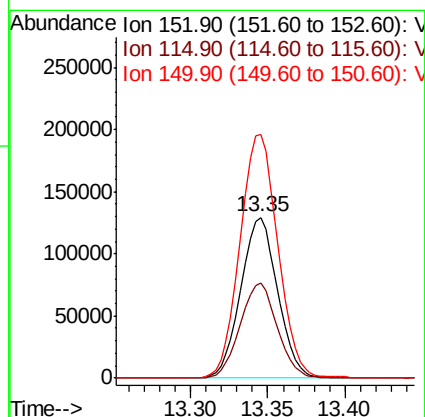
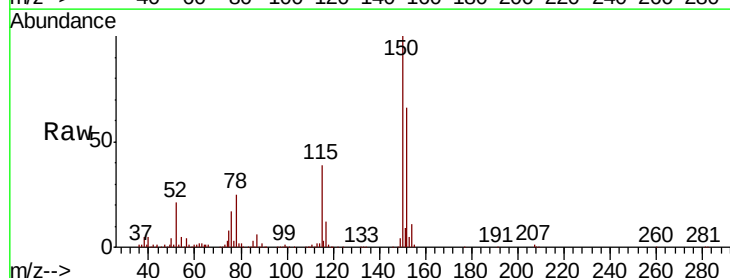
Tgt Ion:152 Resp: 214672

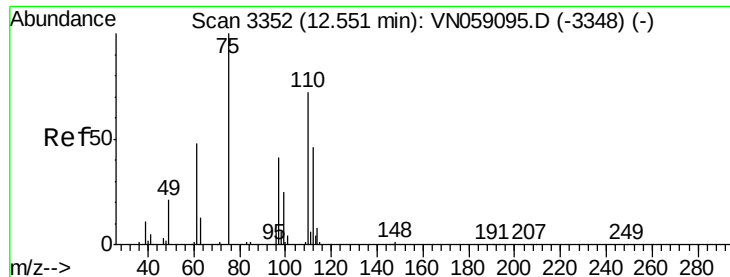
Ion Ratio Lower Upper

152 100

115 59.6 29.4 88.2

150 155.8 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 26.438 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

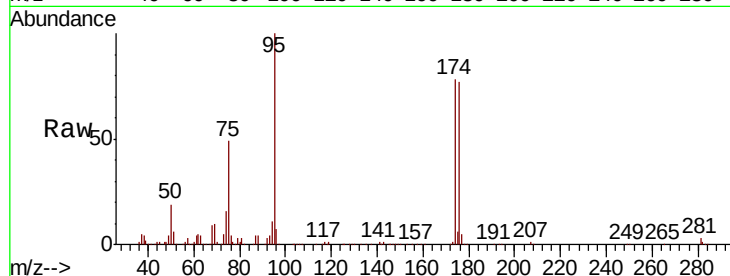
ClientSampled :

Tot Ion: 75 Resp: 129212

Ion Ratio Lower Upper

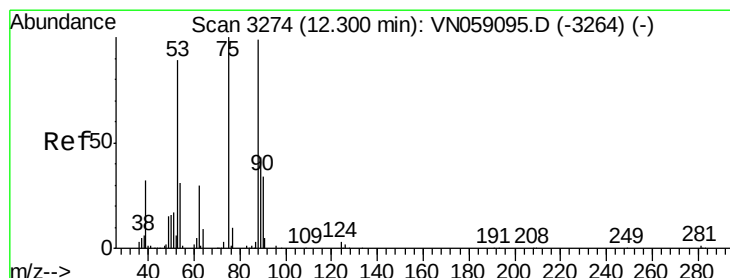
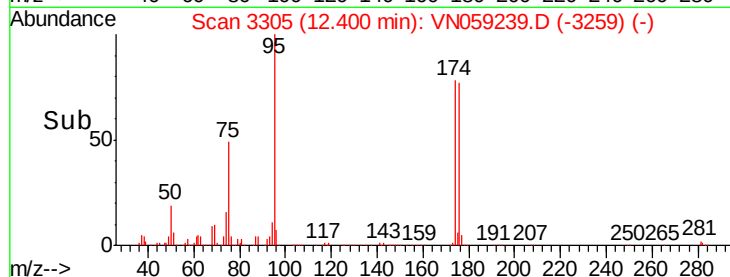
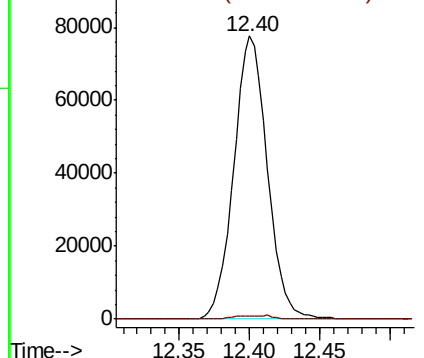
75 100

77 1.4 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: 69.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

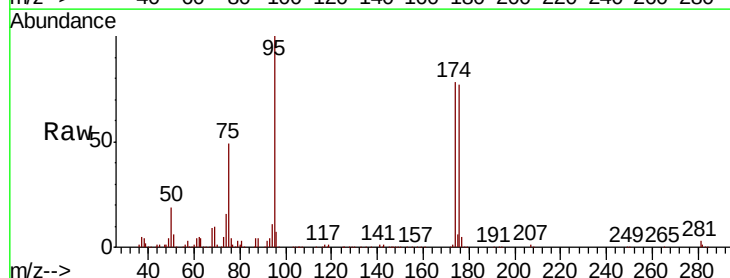
Tgt Ion: 75 Resp: 129212

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

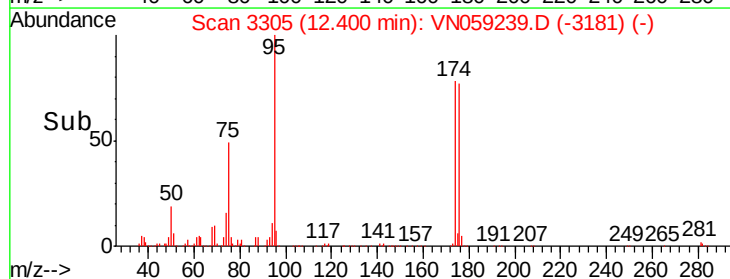
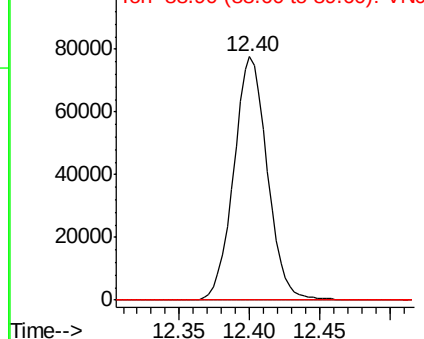
89 0.0 35.8 53.8#

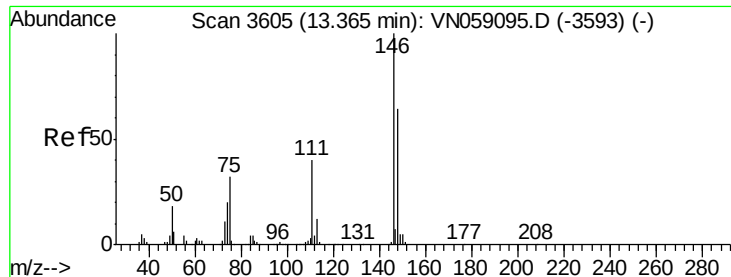


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#88

1,4-Dichlorobenzene

Concen: 0.481 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

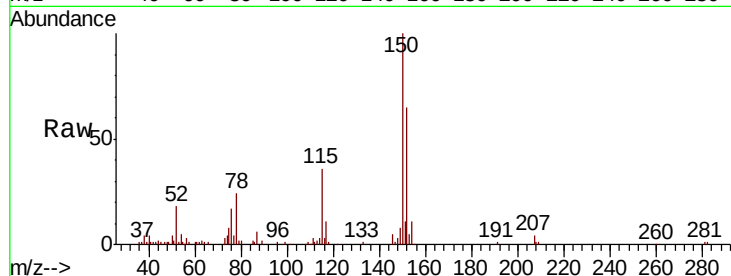
Tot Ion:146 Resp: 3235

Ion Ratio Lower Upper

146 100

111 0.0 20.3 60.9#

148 70.0 31.9 95.7

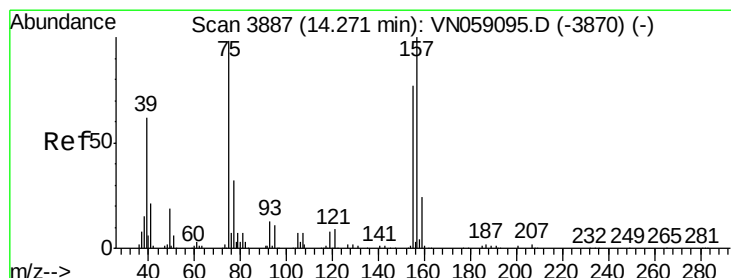
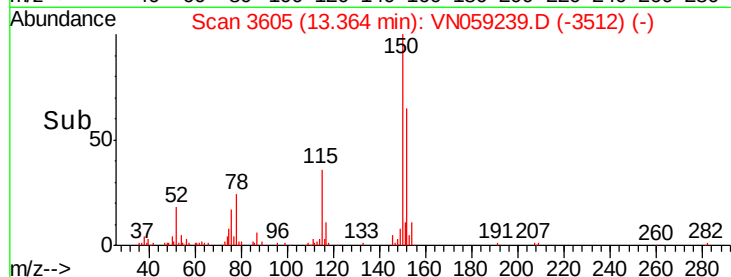
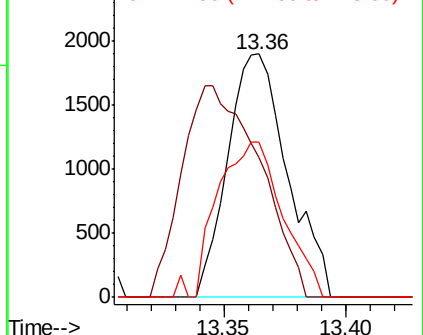


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.204 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.01 min

Lab File: VN059239.D

Acq: 14 Nov 2019 17:12

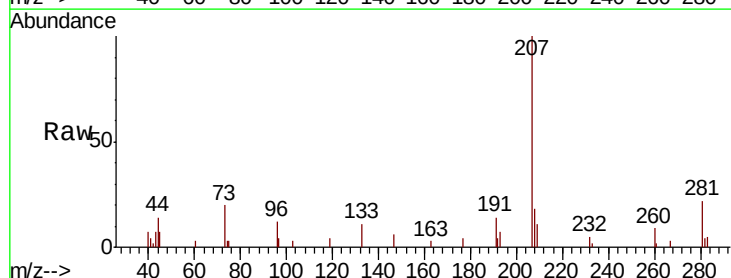
Tgt Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

155 18.5 40.2 120.6#

157 0.0 51.8 155.5#

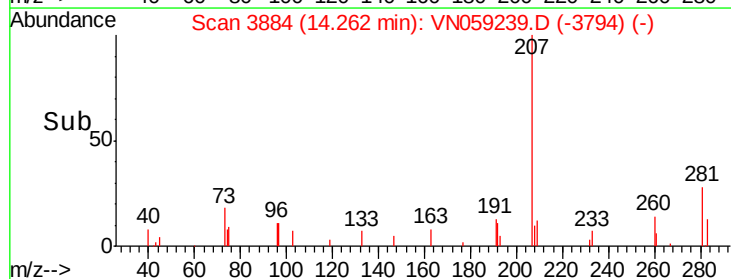
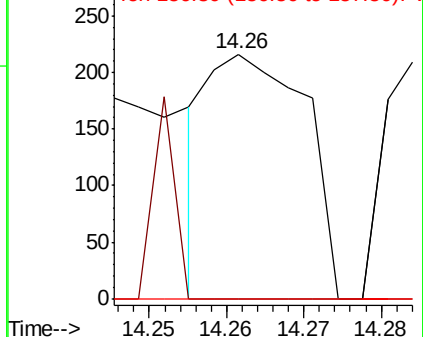


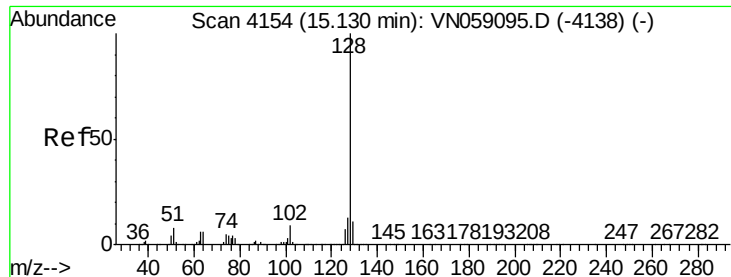
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

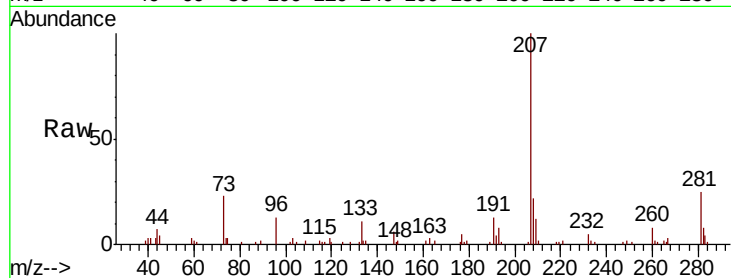




#95
Naphthalene
Concen: 3.068 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059239.D
Acq: 14 Nov 2019 17:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	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

