

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059222.D
 Acq On : 14 Nov 2019 10:57
 Operator : JC/SP
 Sample : K5822-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 06:26:37 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	7.65	168	428125	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	666464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	584252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	212653	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	274521	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
35) Dibromofluoromethane	7.57	113	212309	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
50) Toluene-d8	10.08	98	805826	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.40	95	255899	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	2047	2.041	ug/l #	72
16) Acetone	3.80	43	28220	10.312	ug/l	96
25) 2-Butanone	6.83	43	5701	1.581	ug/l	97
29) Tetrahydrofuran	7.20	42	736	0.321	ug/l #	74
31) Cyclohexane	7.65	56	8930	1.090	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	34086	5.472	ug/l #	50
37) Ethyl Acetate	6.83	43	5701	0.823	ug/l #	69
38) Carbon Tetrachloride	7.64	117	40893	6.595	ug/l #	17
52) Toluene	10.15	92	7901	0.703	ug/l	94
71) Bromoform	12.41	173	1596	0.480	ug/l #	1
74) N-amyl acetate	12.03	43	49382	7.534	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	126969	26.226	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	126969	69.269	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.28	75	273	0.286	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	345	3.128	ug/l #	75
95) Naphthalene	15.13	128	8509	3.770	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

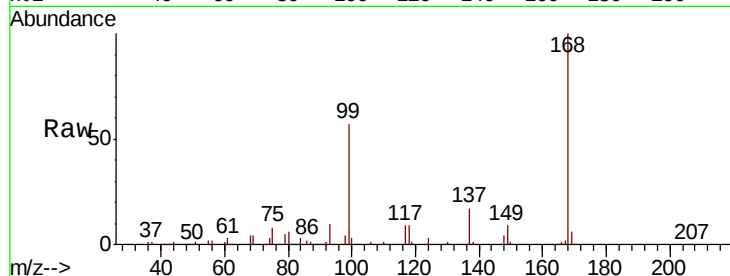
ClientSampled :

Tot Ion:168 Resp: 428125

Ion Ratio Lower Upper

168 100

99 56.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059095.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN059095.D (-1806) (-)

7.65

200000

150000

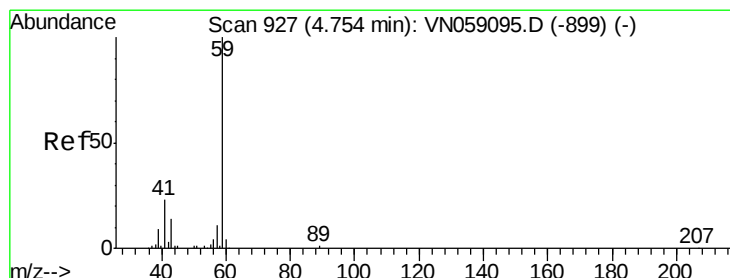
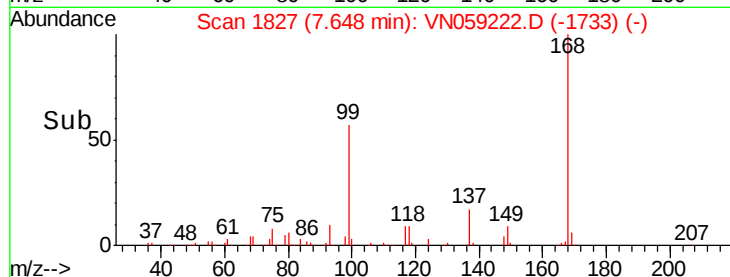
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 2.041 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN059222.D

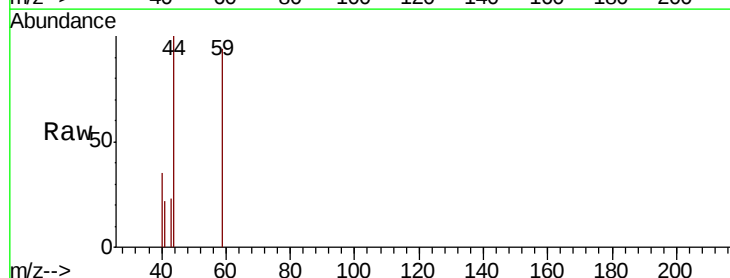
Acq: 14 Nov 2019 10:57

Tgt Ion: 59 Resp: 2047

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN059095.D (-899) (-)

Ion 57.00 (56.70 to 57.70): VN059095.D (-899) (-)

4.76

800

600

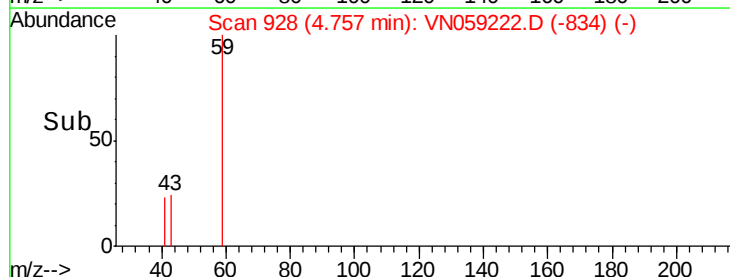
400

200

0

4.70 4.75 4.80 4.85

Time-->





#16

Acetone

Concen: 10.312 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

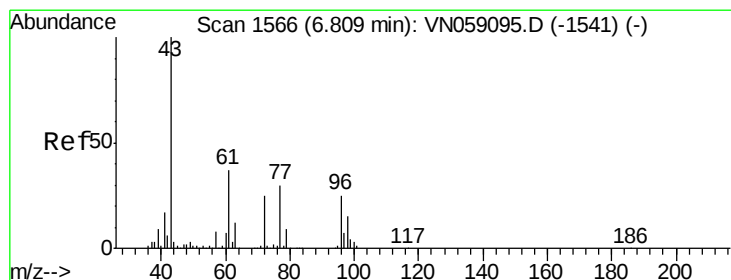
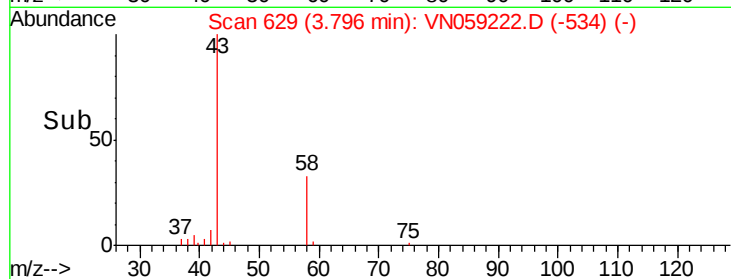
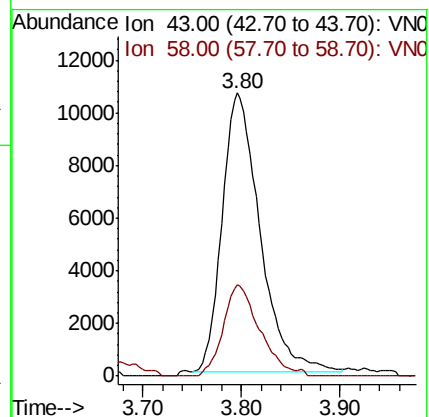
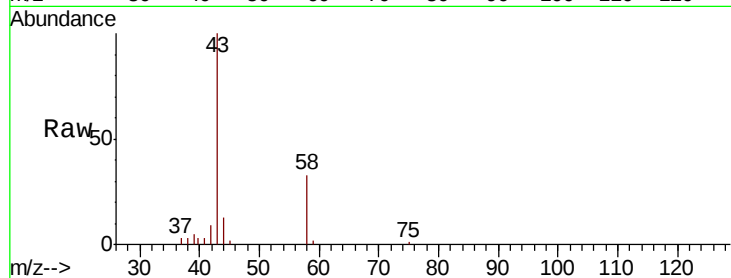
ClientSampled :

Tot Ion: 43 Resp: 28220

Ion Ratio Lower Upper

43 100

58 33.0 24.9 37.3



#25

2-Butanone

Concen: 1.581 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN059222.D

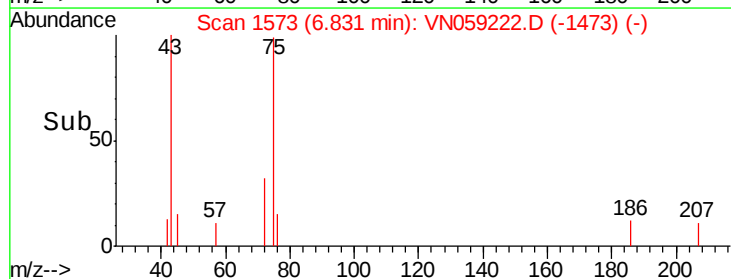
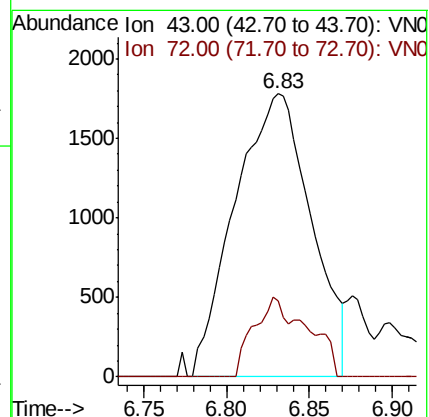
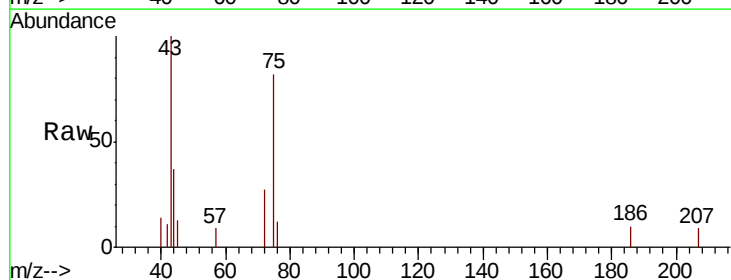
Acq: 14 Nov 2019 10:57

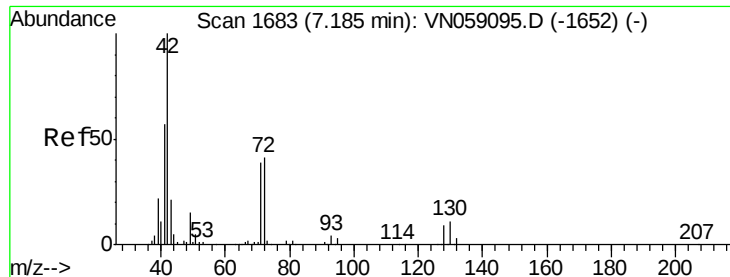
Tgt Ion: 43 Resp: 5701

Ion Ratio Lower Upper

43 100

72 26.7 20.3 30.5





#29

Tetrahydrofuran

Concen: 0.321 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.02 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

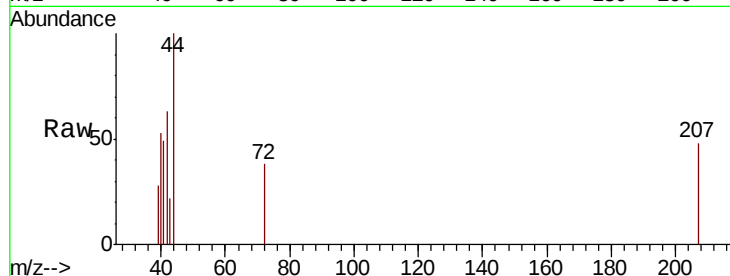
Tot Ion: 42 Resp: 736

Ion Ratio Lower Upper

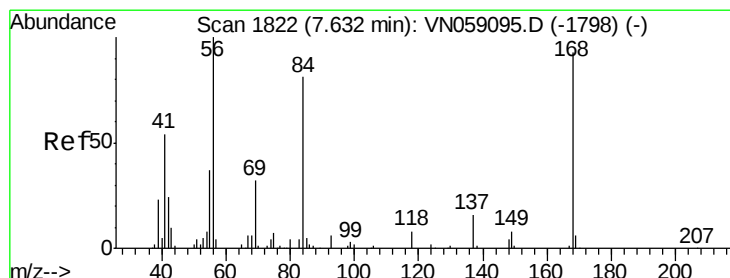
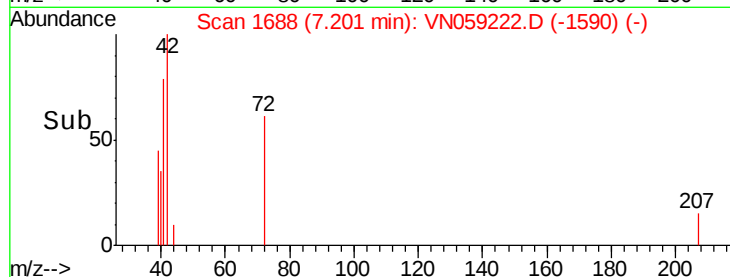
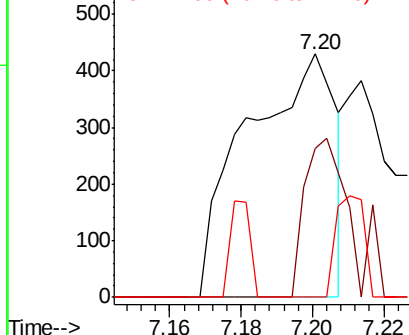
42 100

72 33.6 33.1 49.7

71 13.5 30.9 46.3#



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



#31

Cyclohexane

Concen: 1.090 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

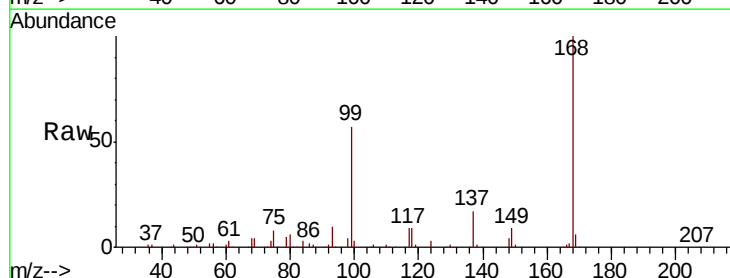
Tgt Ion: 56 Resp: 8930

Ion Ratio Lower Upper

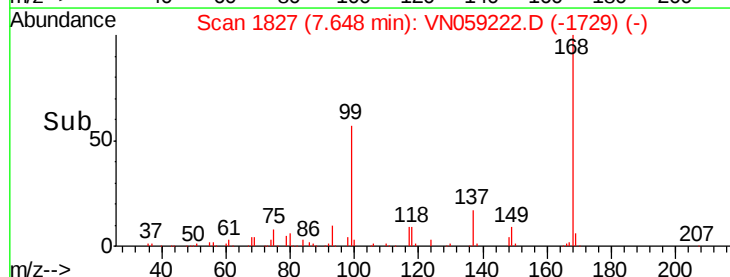
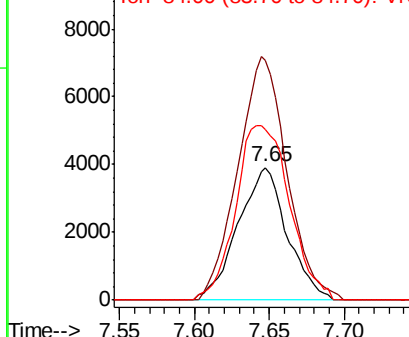
56 100

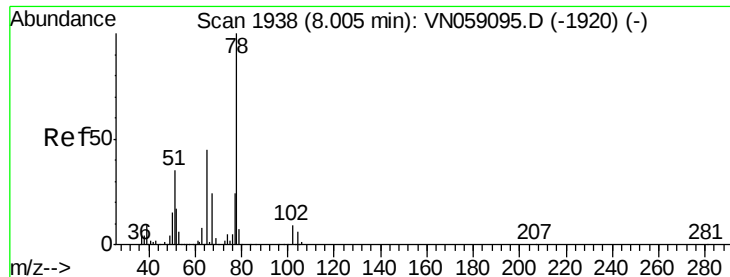
69 181.7 25.8 38.8#

84 129.2 65.0 97.4#



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

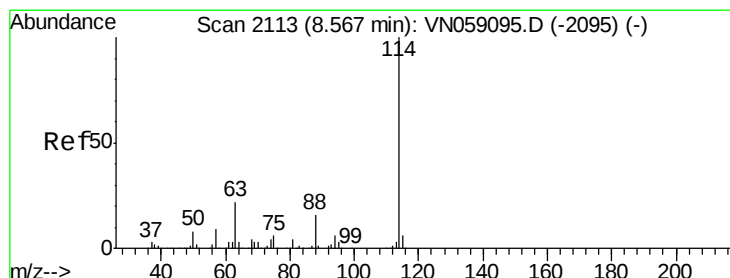
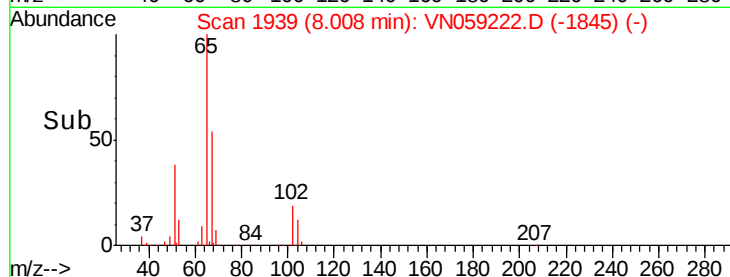
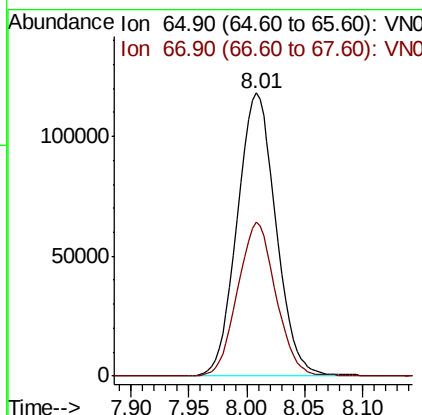
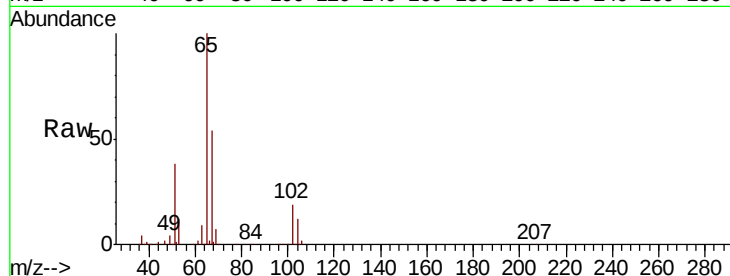




#33
 1,2-Dichloroethane-d4
 Concen: 52.163 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

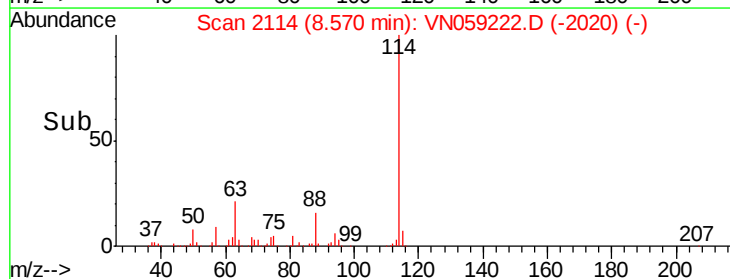
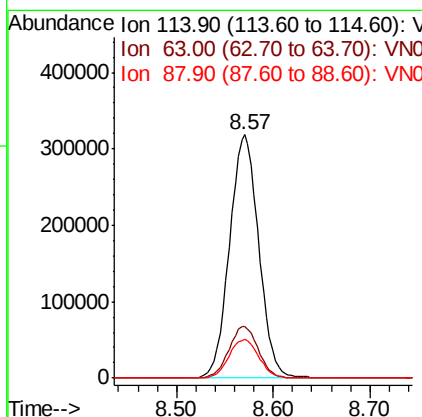
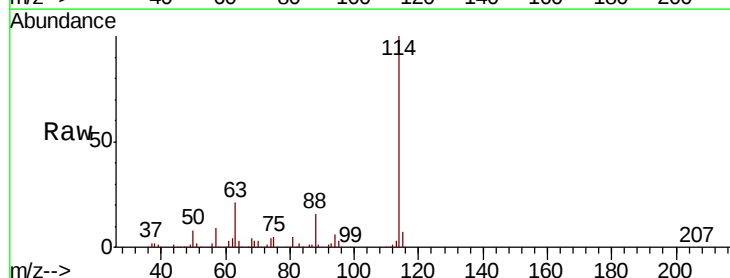
Instrument :
 MSVOA_N
 ClientSampled :

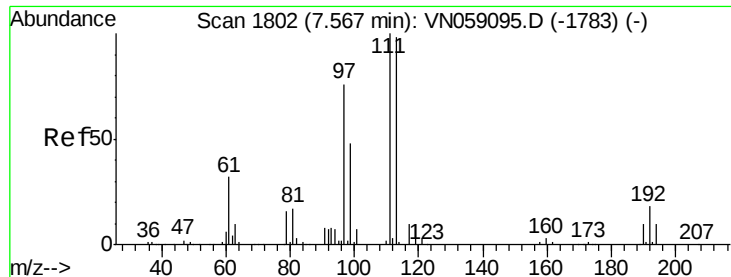
Tot Ion: 65 Resp: 274521
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

Tgt Ion: 114 Resp: 666464
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.4
 88 15.8 0.0 32.2

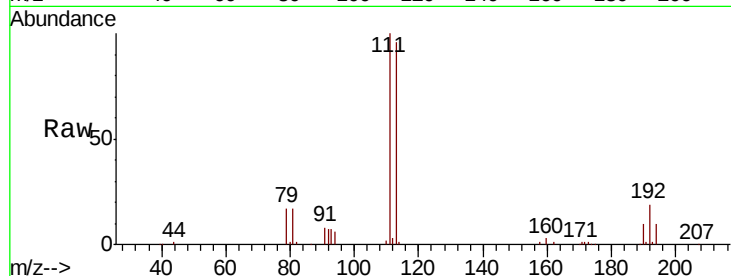




#35
 Dibromofluoromethane
 Concen: 53.351 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.8	124.2
192	20.1	16.1	24.1

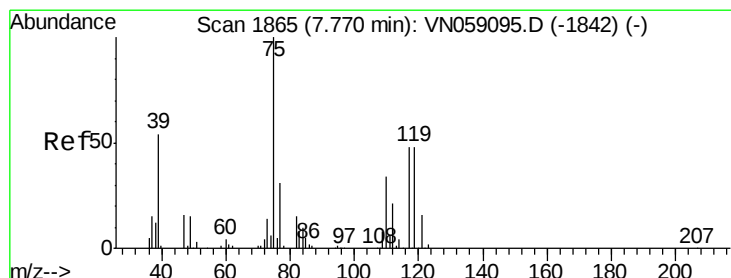
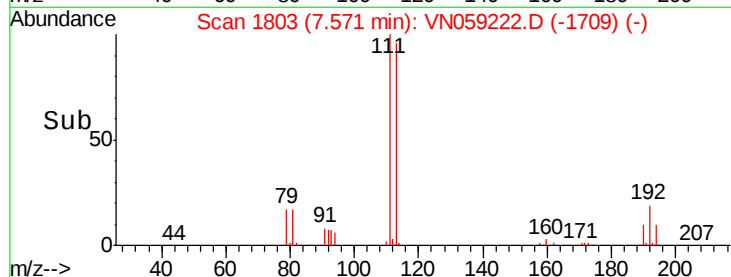
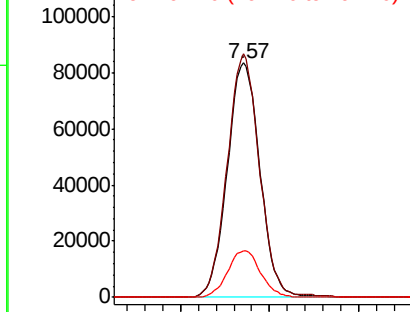


Abundance

Ion 112.80 (112.50 to 113.50): V

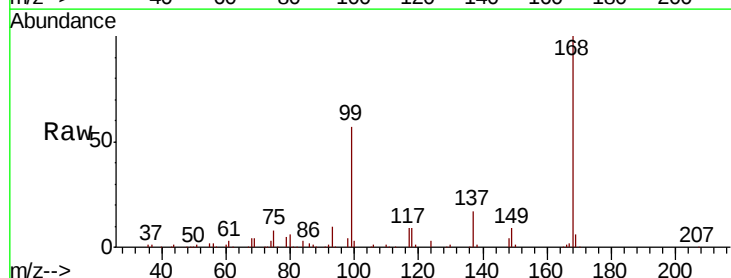
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.472 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.12 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.1	51.2#
77	0.0	24.8	37.2#

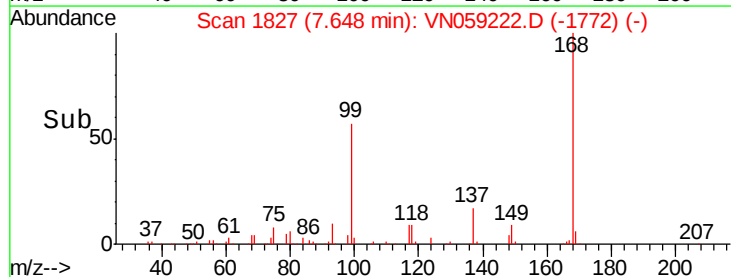
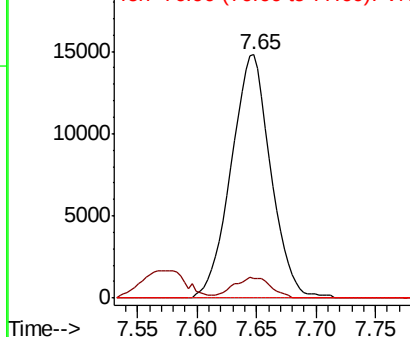


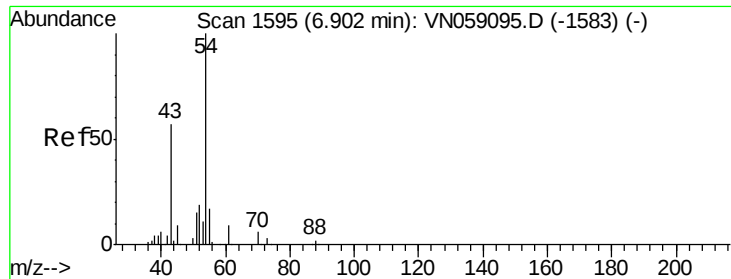
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

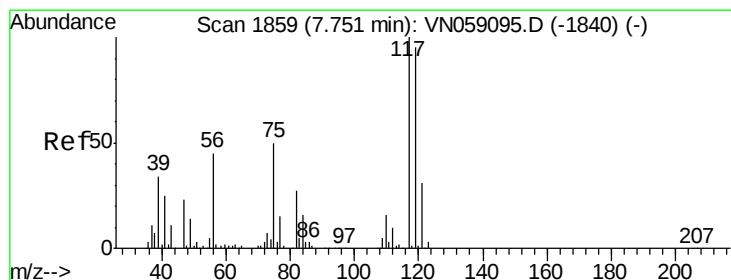
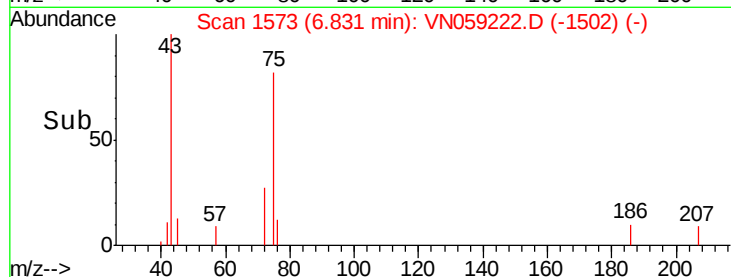
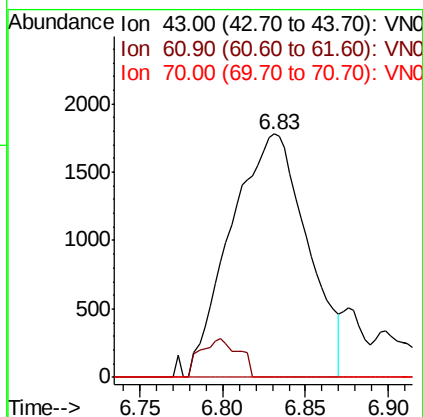
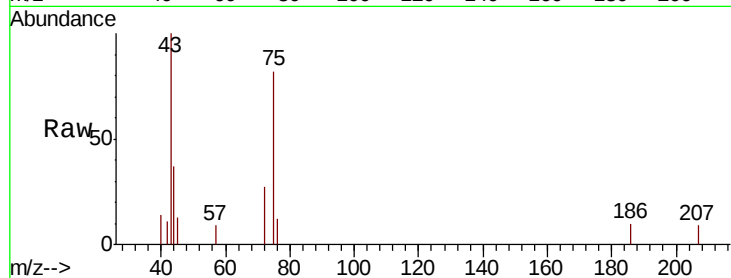




#37
Ethyl Acetate
Concen: 0.823 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.07 min
Lab File: VN059222.D
Acq: 14 Nov 2019 10:57

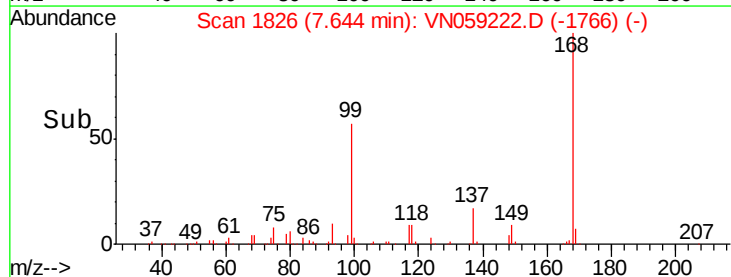
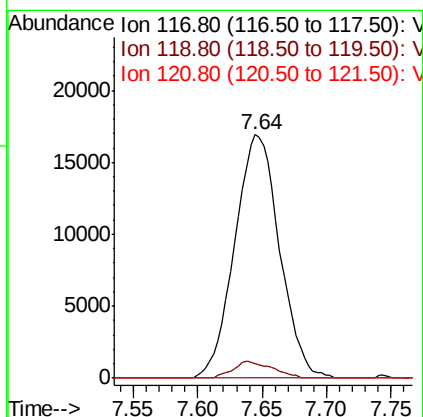
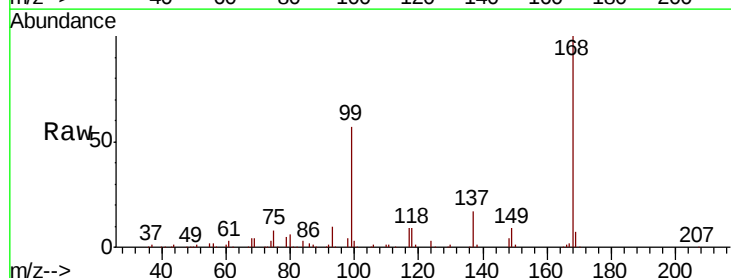
Instrument :
MSVOA_N
ClientSampleId :

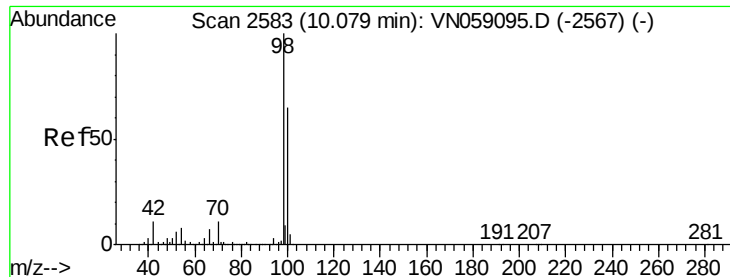
Tot Ion: 43 Resp: 5701
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 6.595 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059222.D
Acq: 14 Nov 2019 10:57

Tgt Ion: 117 Resp: 40893
Ion Ratio Lower Upper
117 100
119 6.0 75.6 113.4#
121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 51.409 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

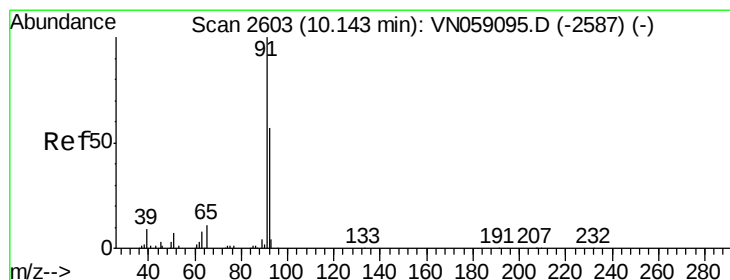
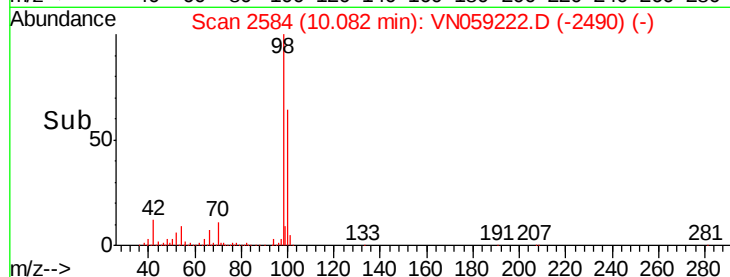
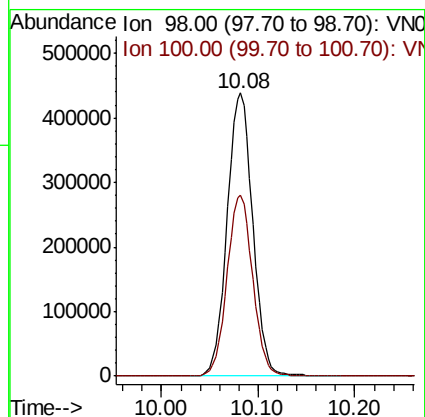
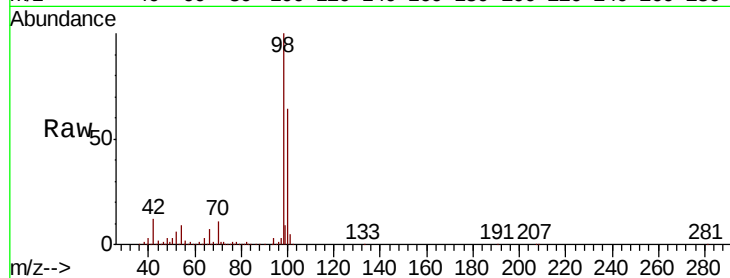
ClientSampleId :

Tot Ion: 98 Resp: 805826

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#52

Toluene

Concen: 0.703 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059222.D

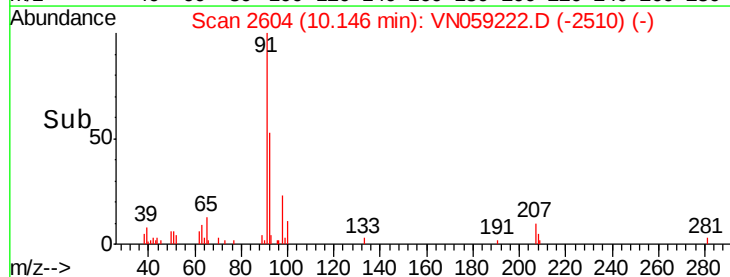
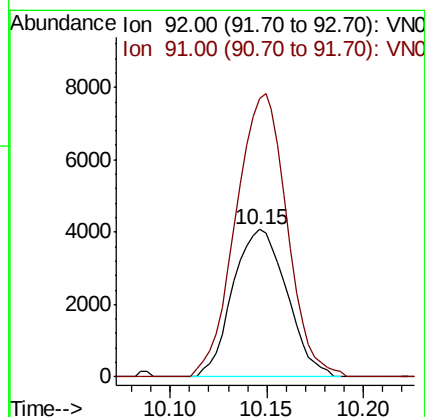
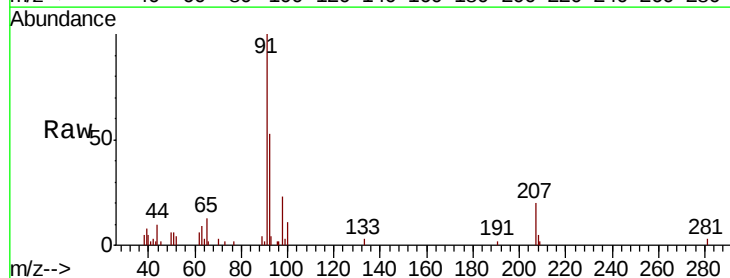
Acq: 14 Nov 2019 10:57

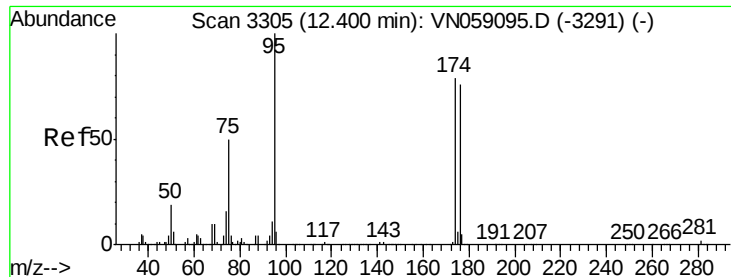
Tgt Ion: 92 Resp: 7901

Ion Ratio Lower Upper

92 100

91 182.5 139.5 209.3

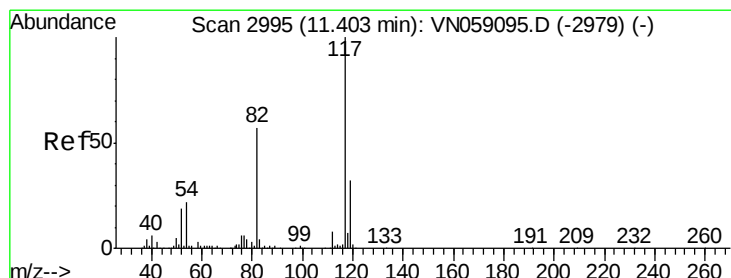
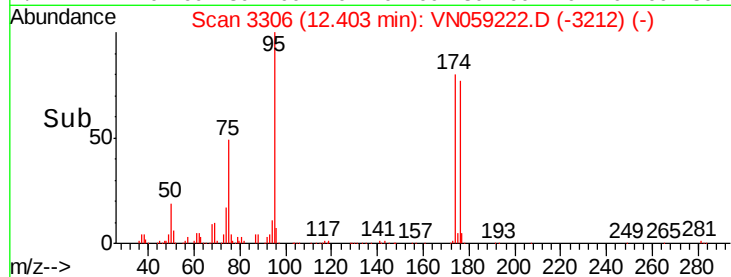
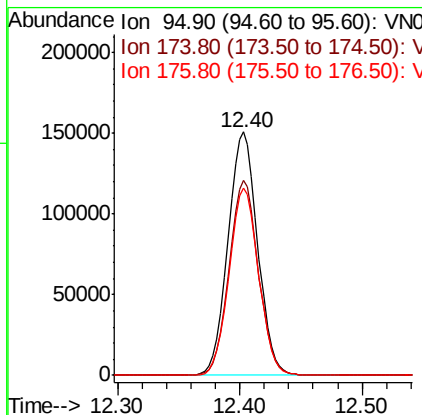
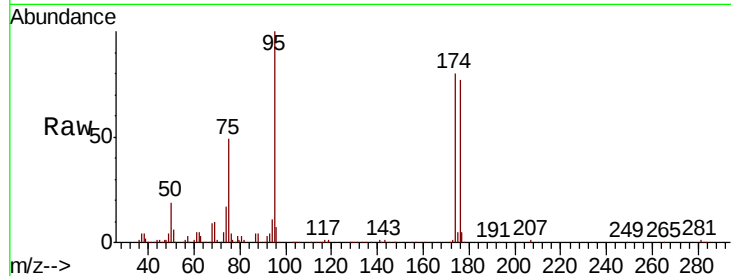




#62
4-Bromofluorobenzene
Concen: 45.278 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059222.D
Acq: 14 Nov 2019 10:57

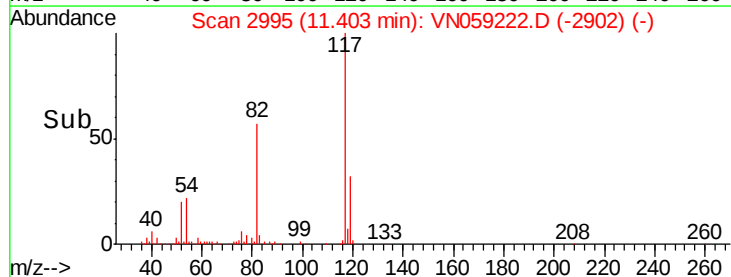
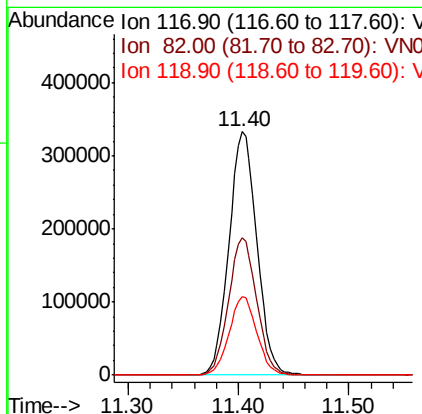
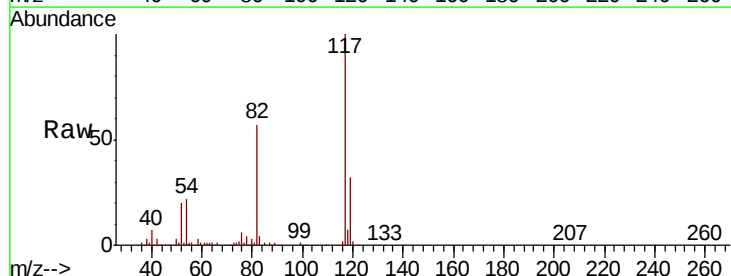
Instrument :
MSVOA_N
ClientSampleId :

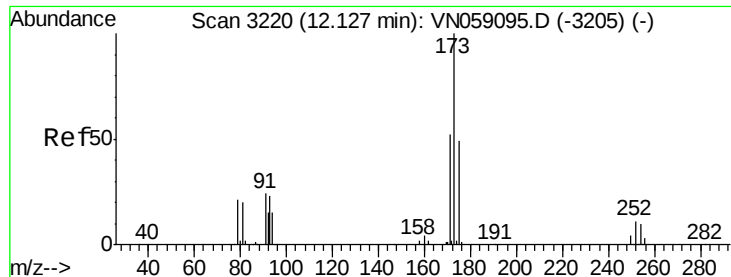
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	158.2
176	76.6	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059222.D
Acq: 14 Nov 2019 10:57

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	32.0	25.8	38.6





#71

Bromoform

Concen: 0.480 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

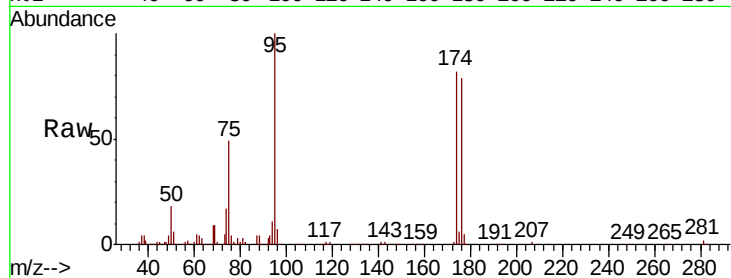
Tot Ion:173 Resp: 1596

Ion Ratio Lower Upper

173 100

175 766.5 24.2 72.6#

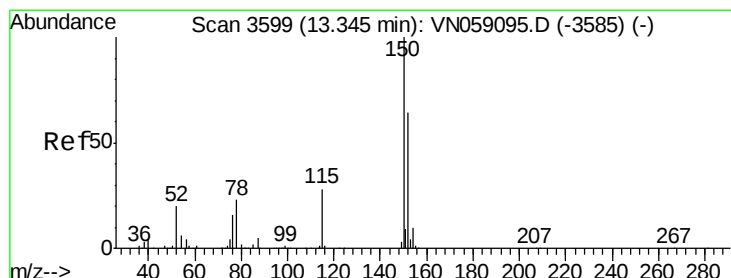
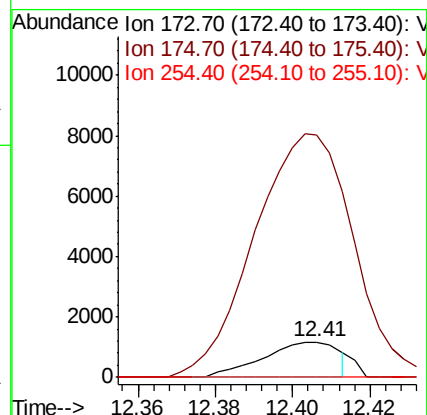
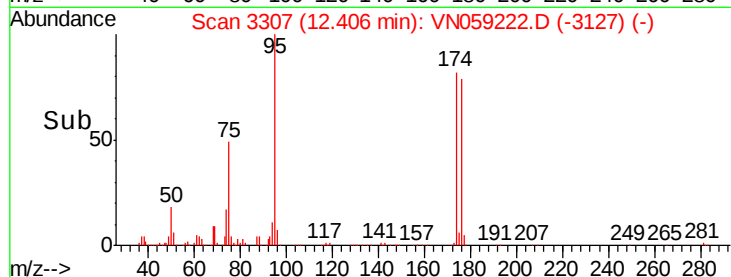
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

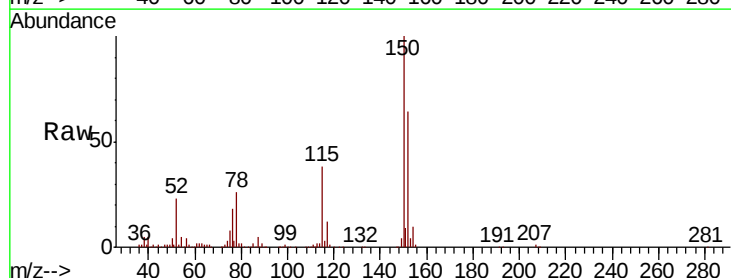
Tgt Ion:152 Resp: 212653

Ion Ratio Lower Upper

152 100

115 58.4 29.4 88.2

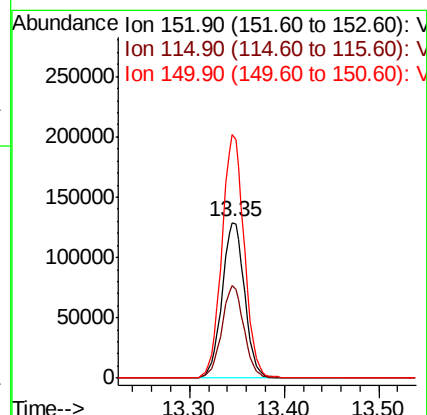
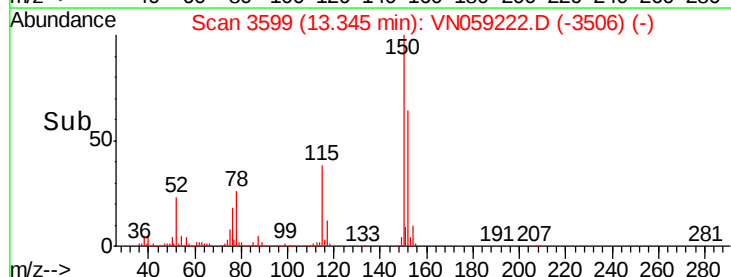
150 154.9 0.0 345.8

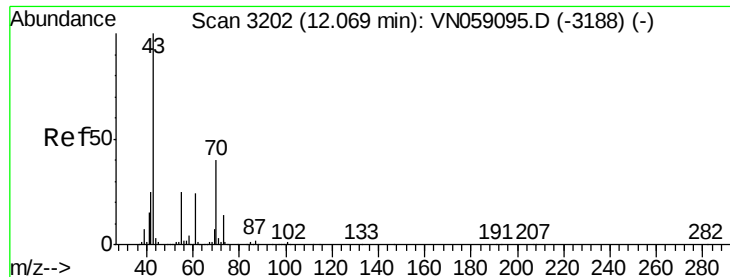


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 7.534 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 49382

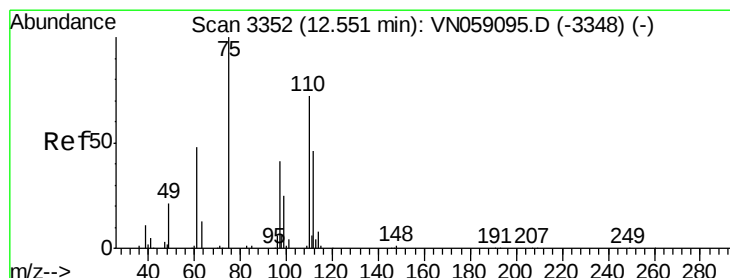
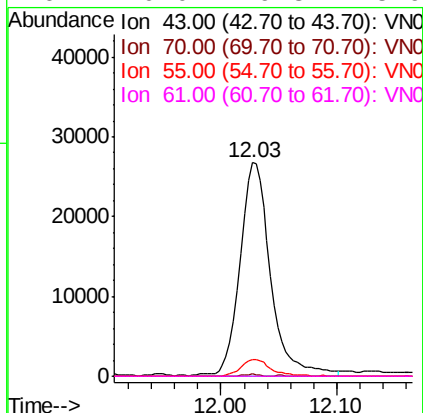
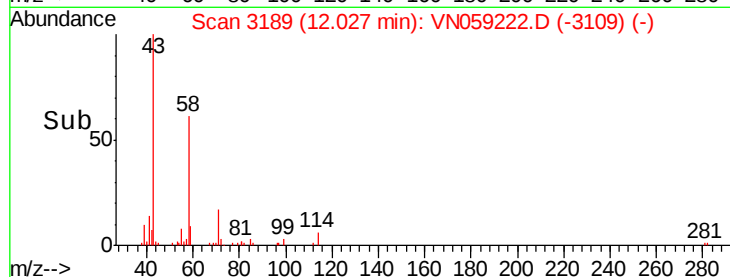
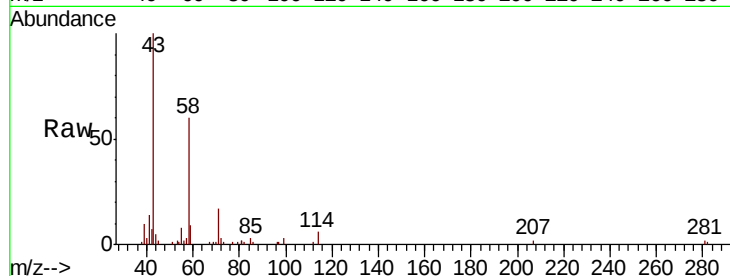
Ion Ratio Lower Upper

43 100

70 0.5 32.2 48.4#

55 7.7 20.4 30.6#

61 0.0 19.3 28.9#



#76

1,2,3-Trichloropropane

Concen: 26.226 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059222.D

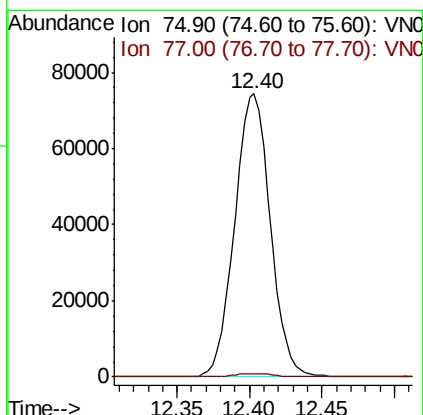
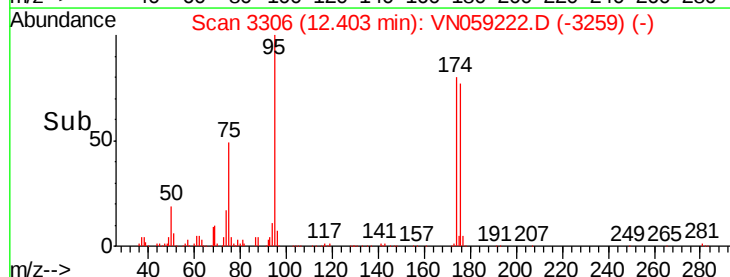
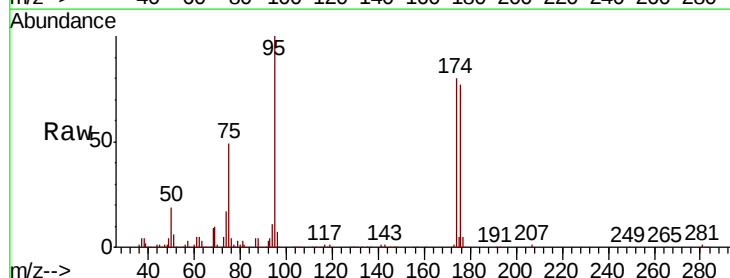
Acq: 14 Nov 2019 10:57

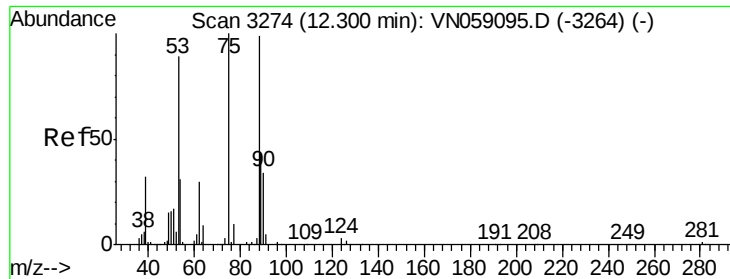
Tgt Ion: 75 Resp: 126969

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 69.269 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

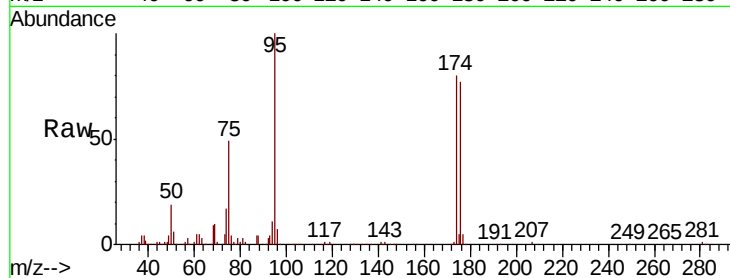
Tot Ion: 75 Resp: 126969

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

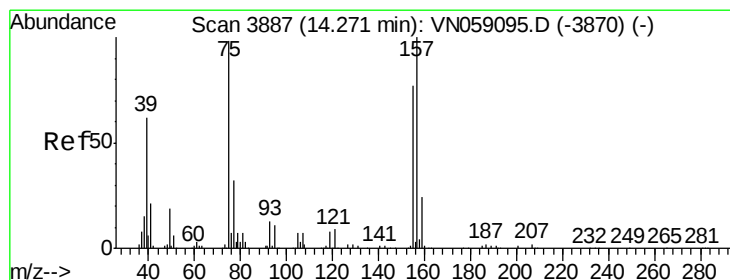
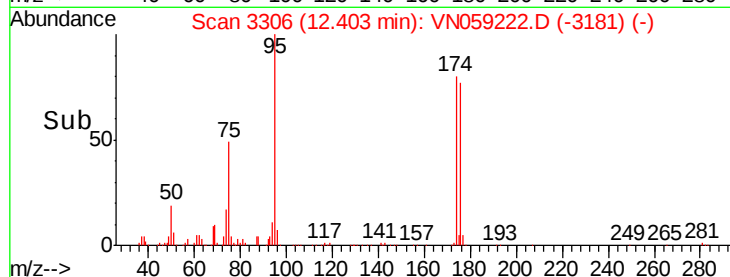
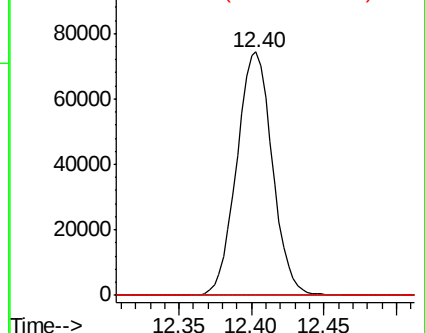
89 0.1 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.286 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.01 min

Lab File: VN059222.D

Acq: 14 Nov 2019 10:57

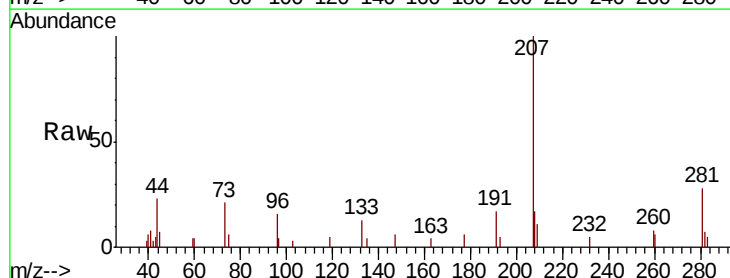
Tgt Ion: 75 Resp: 273

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

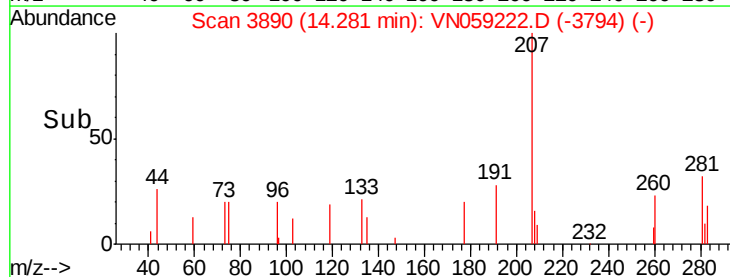
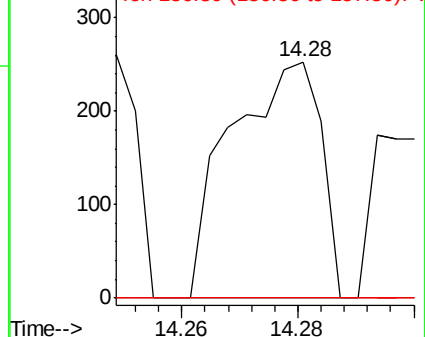
157 0.0 51.8 155.5#

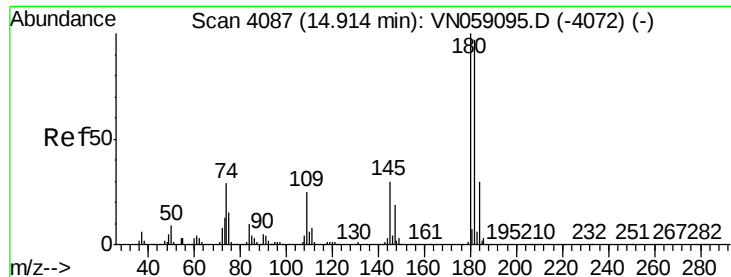


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

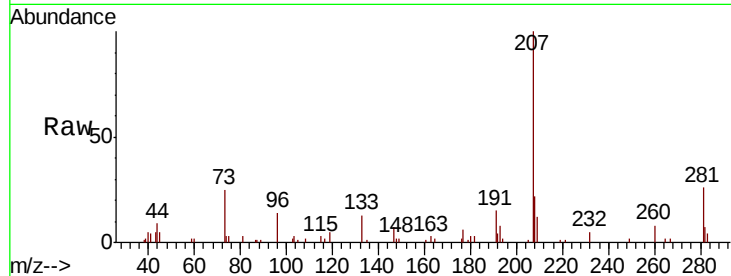




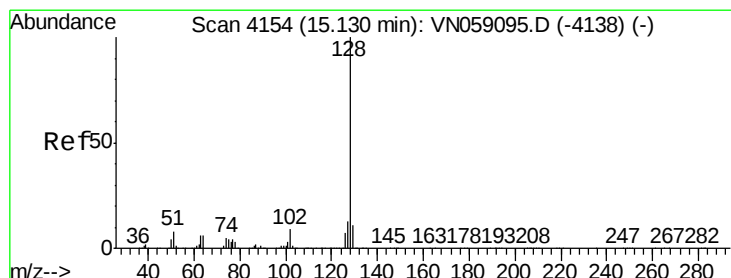
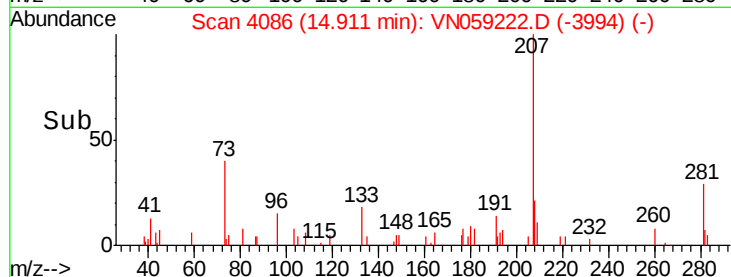
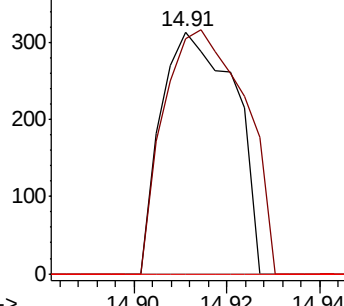
#93
 1,2,4-Trichlorobenzene
 Concen: 3.128 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 345
 Ion Ratio Lower Upper
 180 100
 182 111.6 48.1 144.3
 145 0.0 15.1 45.3#

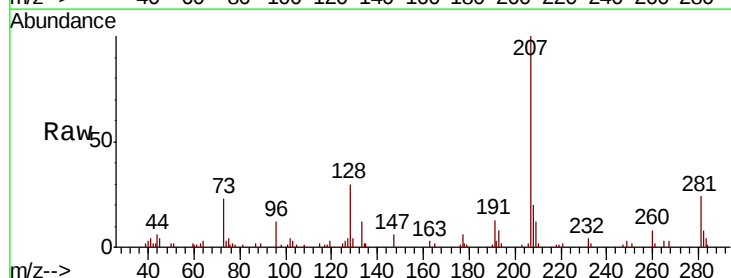


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.770 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059222.D
 Acq: 14 Nov 2019 10:57

Tgt Ion:128 Resp: 8509
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.2 15.2
 129 10.6 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

