

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059162.D
 Acq On : 11 Nov 2019 15:38
 Operator : JC/SP
 Sample : PB124652TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 00:43:25 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	435542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	680229	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	587539	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208625	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	284596	53.16	ug/l	0.00
Spiked Amount						
			Recovery	=	106.32%	
35) Dibromofluoromethane	7.57	113	212706	52.37	ug/l	0.00
Spiked Amount						
			Recovery	=	104.74%	
50) Toluene-d8	10.08	98	827768	51.74	ug/l	0.00
Spiked Amount						
			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.40	95	258540	44.82	ug/l	0.00
Spiked Amount						
			Recovery	=	89.64%	

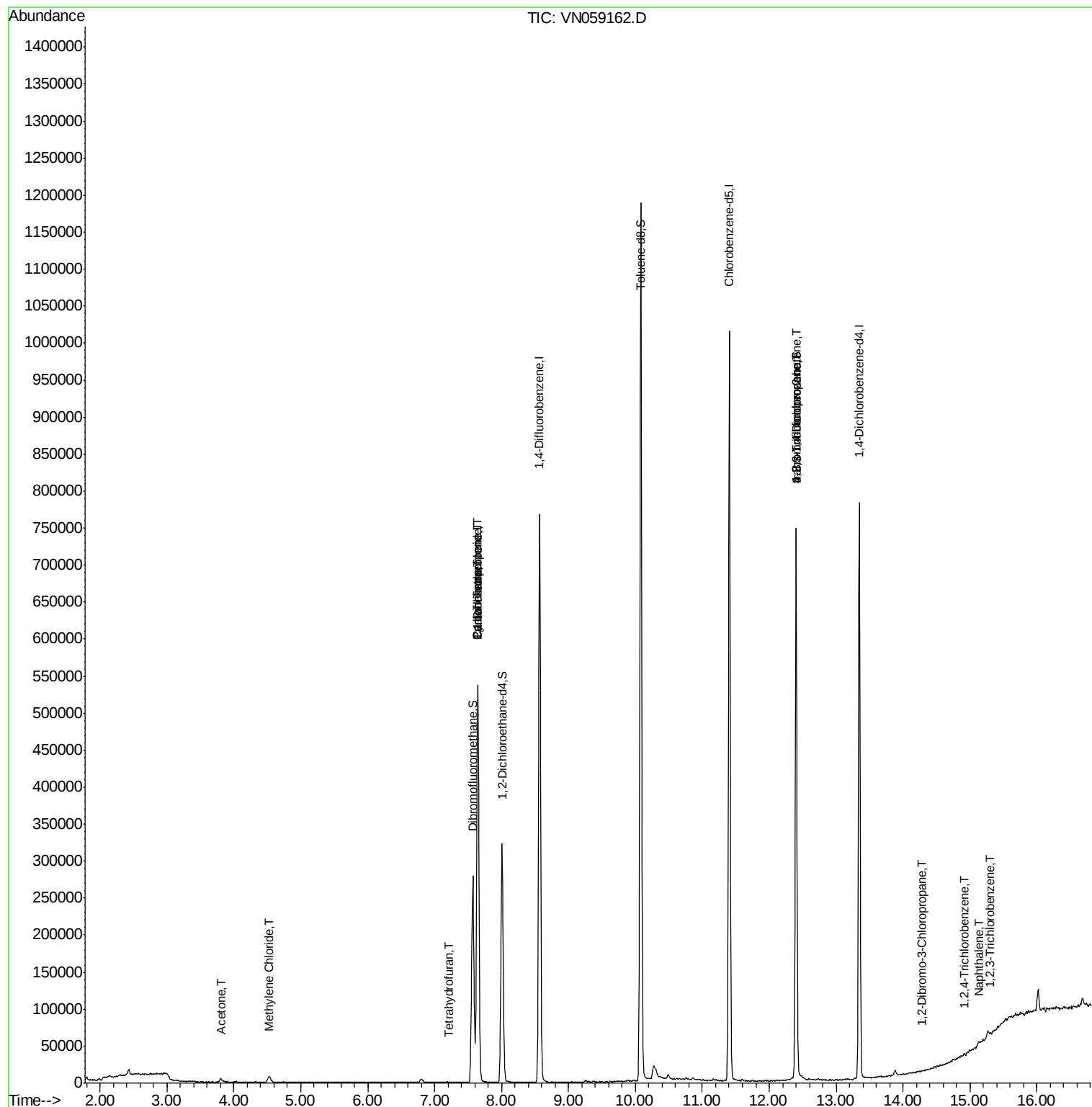
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	4971	1.785	ug/l	100
20) Methylene Chloride	4.52	84	3514	0.724	ug/l	96
29) Tetrahydrofuran	7.21	42	532	0.228	ug/l #	35
31) Cyclohexane	7.65	56	9255	1.110	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32986	5.188	ug/l #	49
38) Carbon Tetrachloride	7.65	117	41911	6.623	ug/l #	16
76) 1,2,3-Trichloropropane	12.40	75	130754	27.529	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	130754	72.712	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.28	75	424	0.437	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.92	180	519	3.171	ug/l	84
95) Naphthalene	15.13	128	2534	3.265	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.30	180	724	0.201	ug/l	99

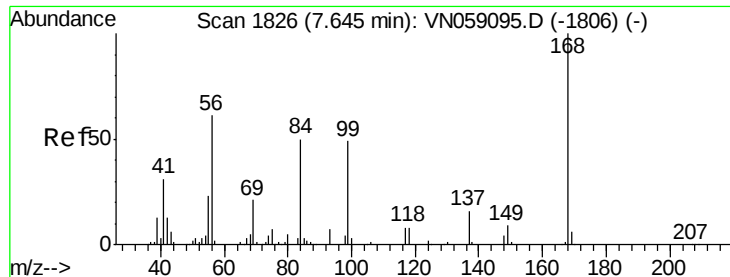
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 07 04:00:41 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: VN059162.D

Acq: 11 Nov 2019 15:38

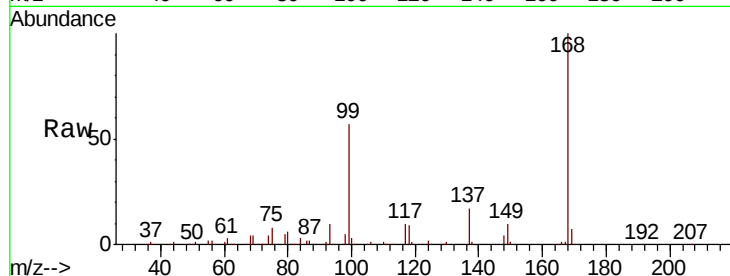
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 435542

Ion Ratio Lower Upper

168 100

99 57.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

200000

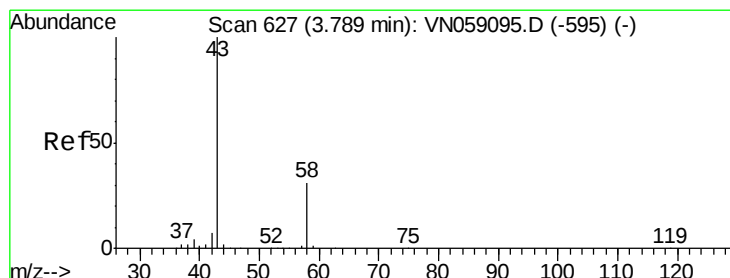
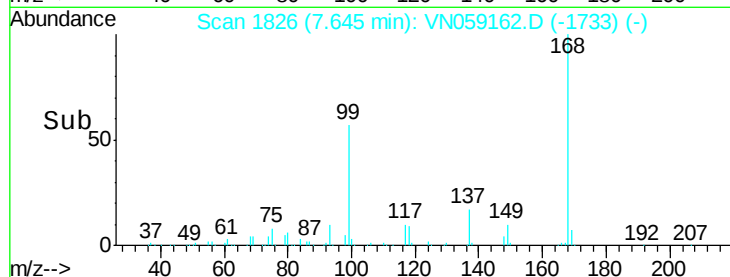
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 1.785 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059162.D

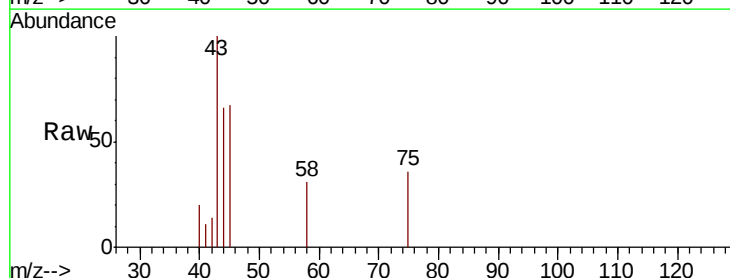
Acq: 11 Nov 2019 15:38

Tgt Ion: 43 Resp: 4971

Ion Ratio Lower Upper

43 100

58 31.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000

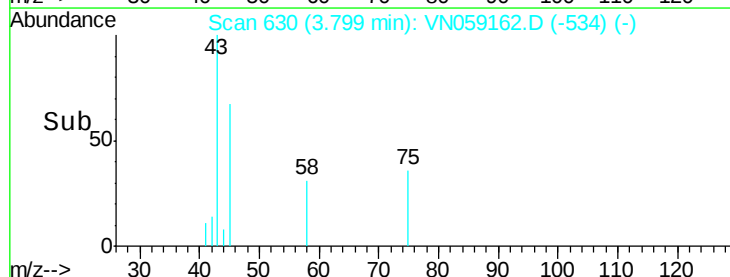
1500

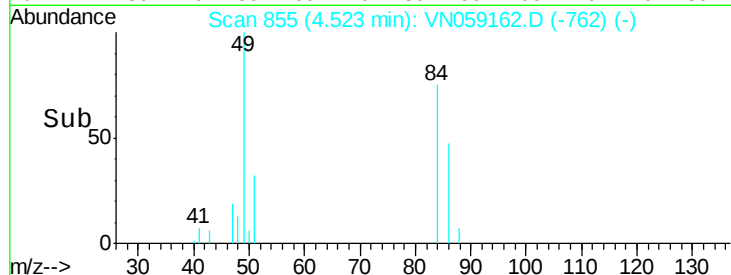
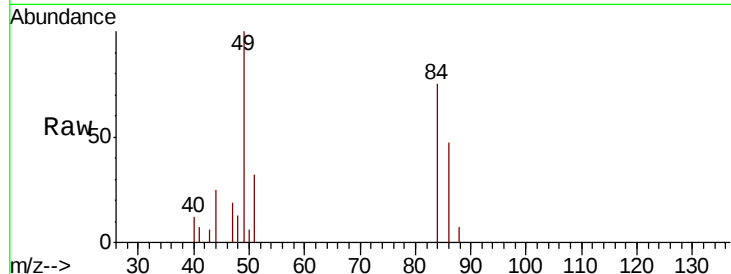
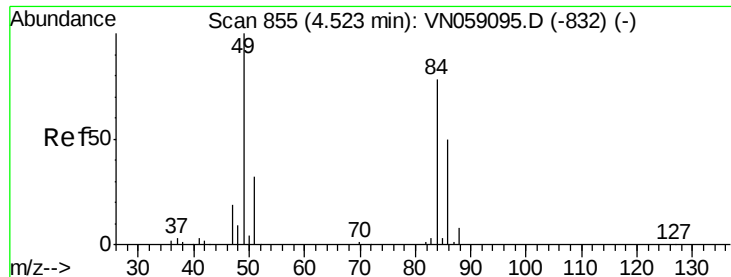
1000

500

0

Time--> 3.70 3.75 3.80 3.85 3.90

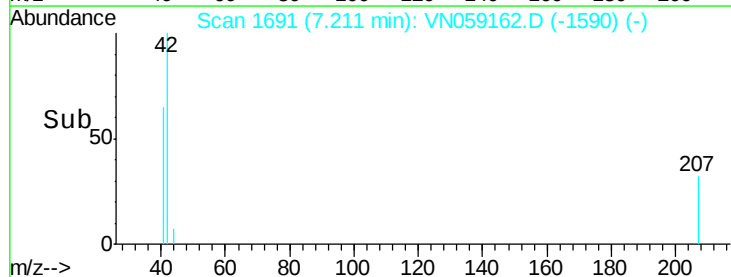
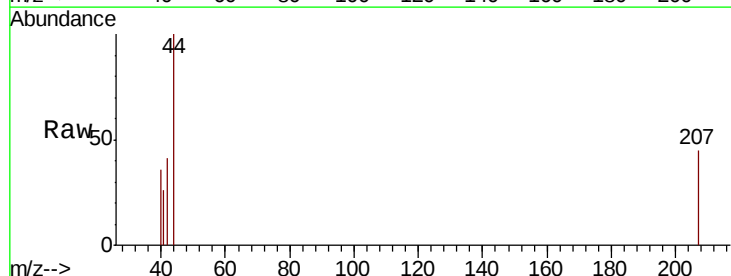
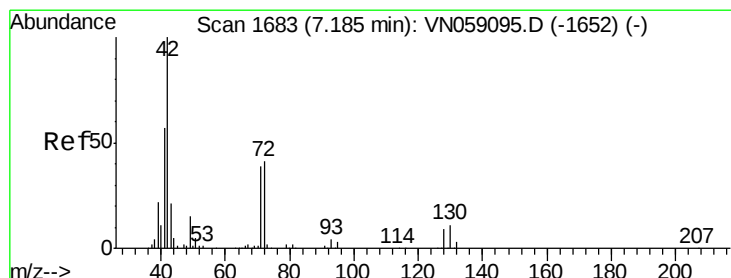
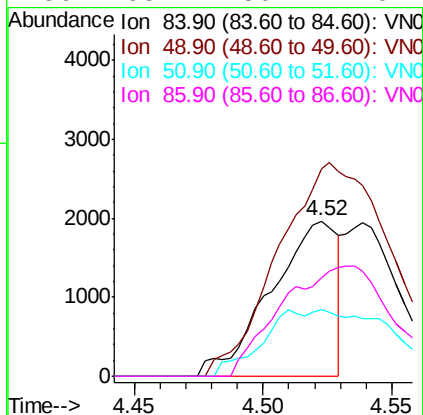




#20
Methvlene Chloride
Concen: 0.724 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059162.D
Acq: 11 Nov 2019 15:38

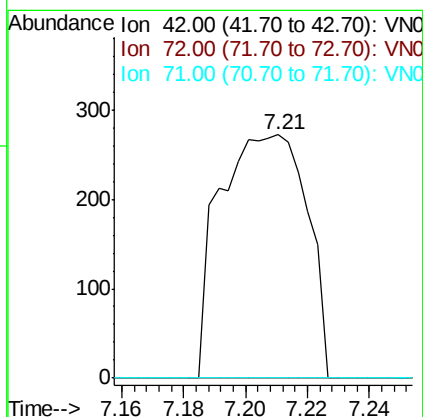
Instrument :
MSVOA_N
ClientSampled :

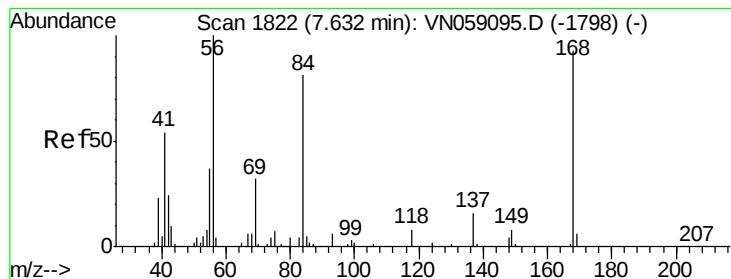
Tot Ion:	84	Resp:	3514
Ion	Ratio	Lower	Upper
84	100		
49	133.8	102.0	153.0
51	42.9	32.2	48.2
86	63.4	50.7	76.1



#29
Tetrahydrofuran
Concen: 0.228 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.03 min
Lab File: VN059162.D
Acq: 11 Nov 2019 15:38

Tgt Ion:	42	Resp:	532
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.1	49.7#
71	0.0	30.9	46.3#





#31

Cyclohexane

Concen: 1.110 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

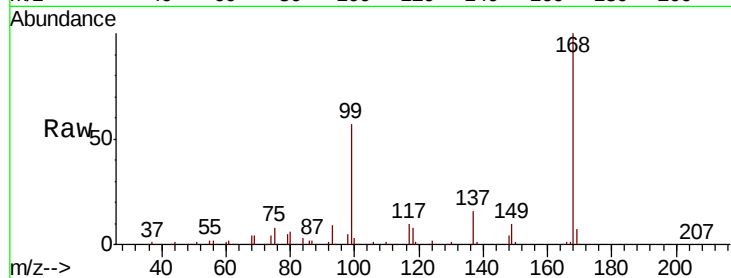
Tot Ion: 56 Resp: 9255

Ion Ratio Lower Upper

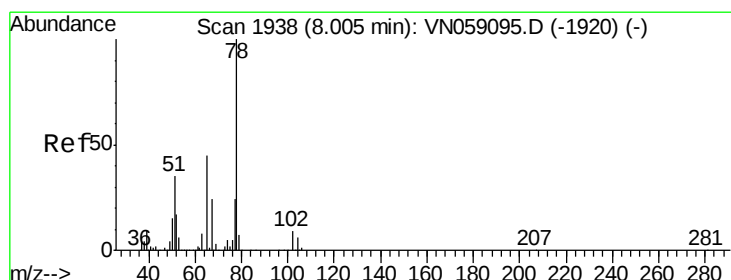
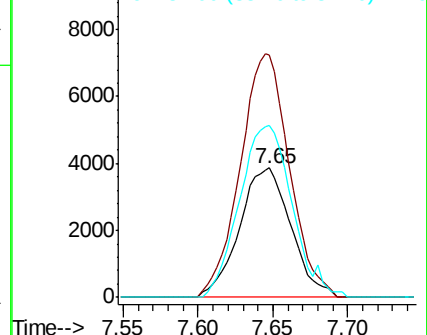
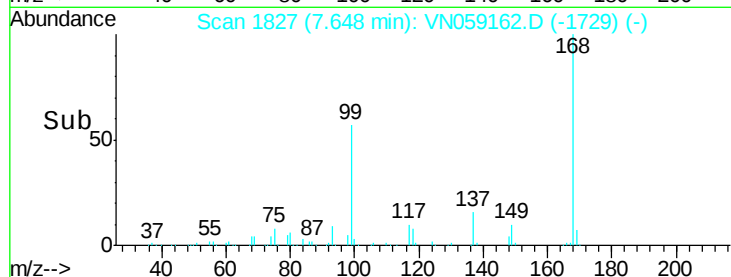
56 100

69 187.9 25.8 38.8#

84 133.0 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VN059162.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.156 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059162.D

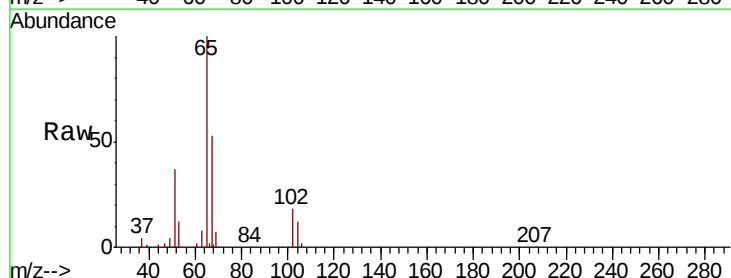
Acq: 11 Nov 2019 15:38

Tgt Ion: 65 Resp: 284596

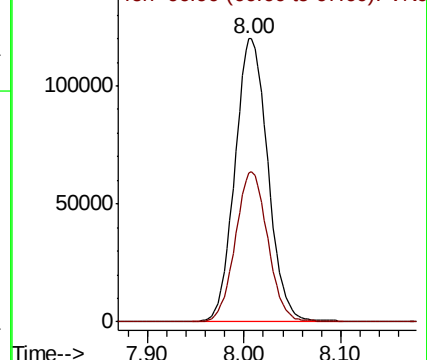
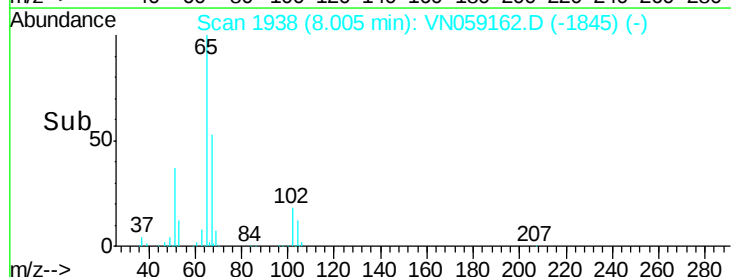
Ion Ratio Lower Upper

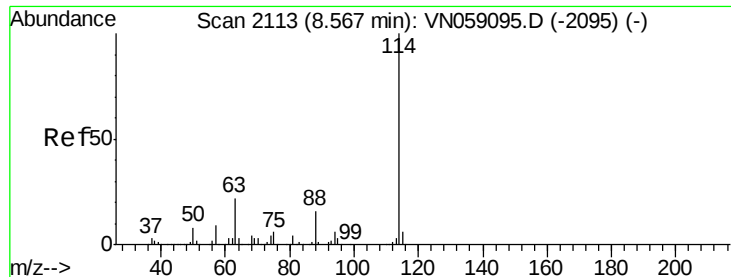
65 100

67 52.1 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059162.D (-1845) (-)

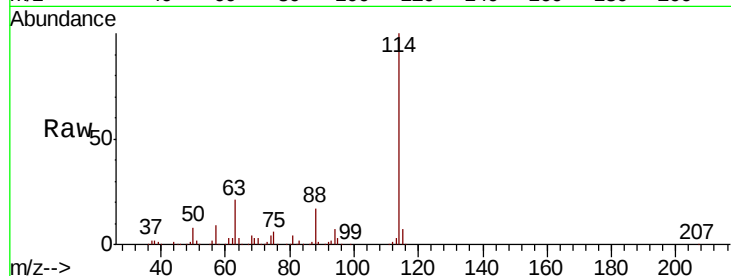




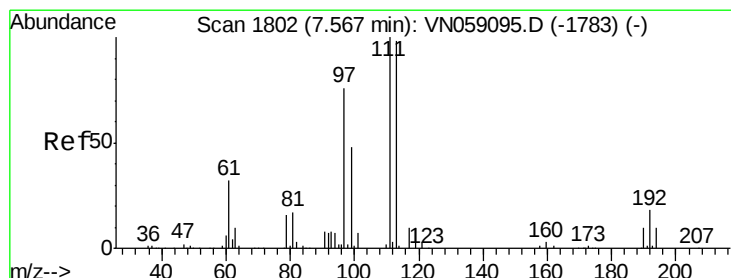
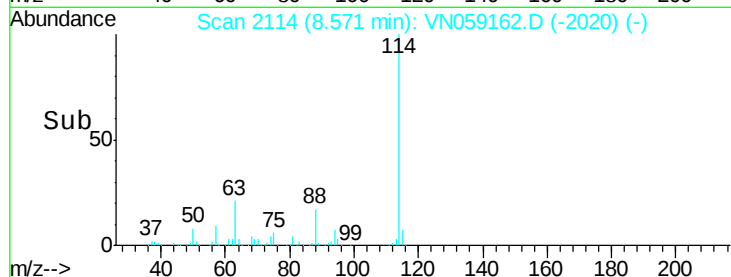
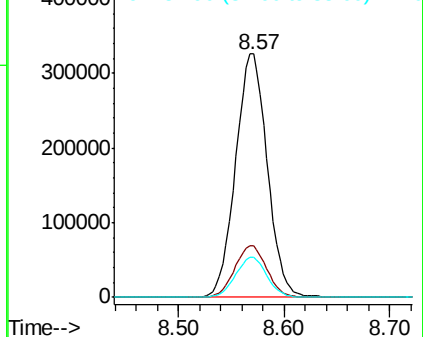
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059162.D
 Acq: 11 Nov 2019 15:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.4
88	16.6	0.0	32.2

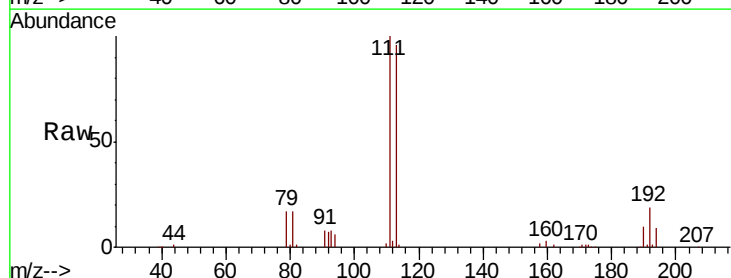


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

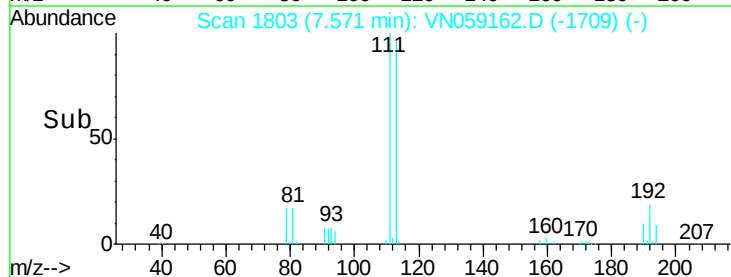
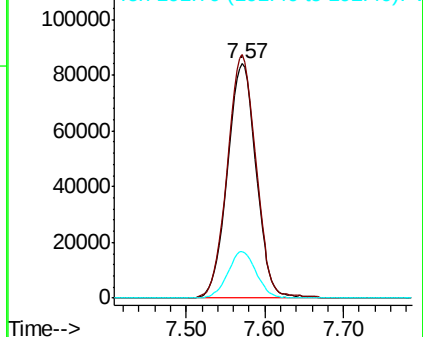


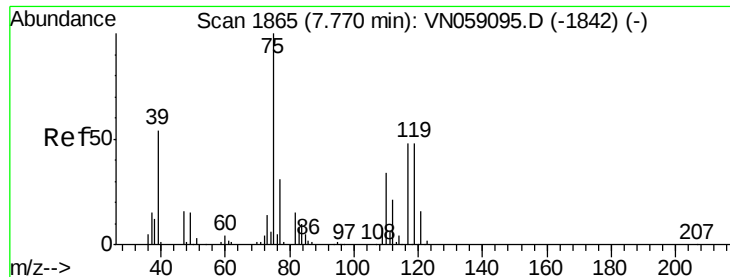
#35
 Dibromofluoromethane
 Concen: 52.370 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059162.D
 Acq: 11 Nov 2019 15:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.8	124.2
192	19.8	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: 5.188 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :
MSVOA_N
ClientSampled :

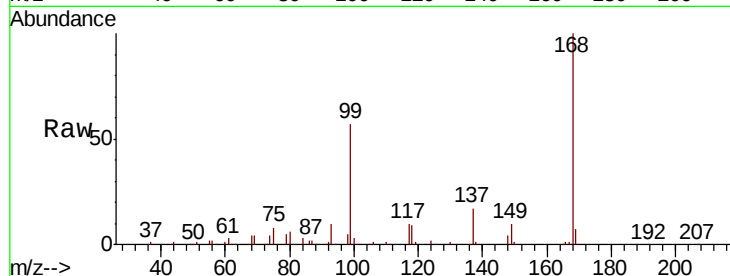
Tot Ion: 75 Resp: 32986

Ion Ratio Lower Upper

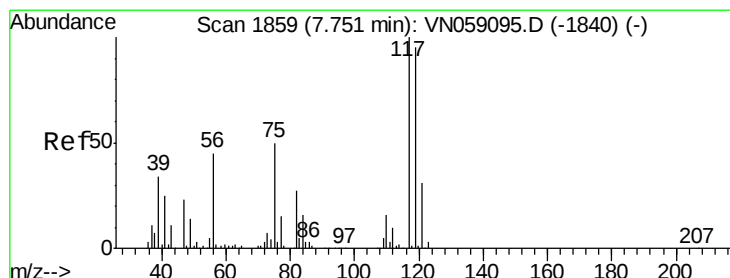
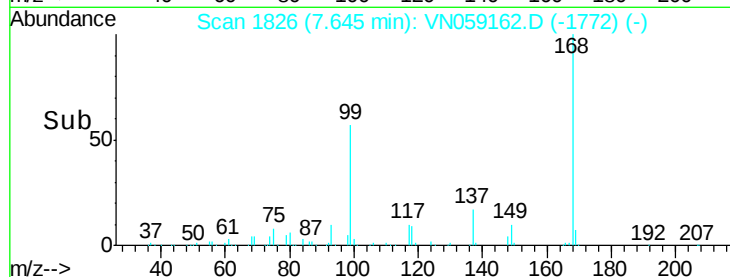
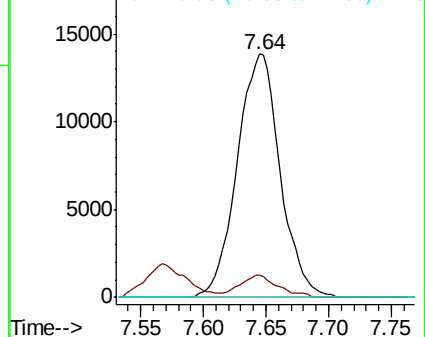
75 100

110 8.1 17.1 51.2#

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.623 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.10 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

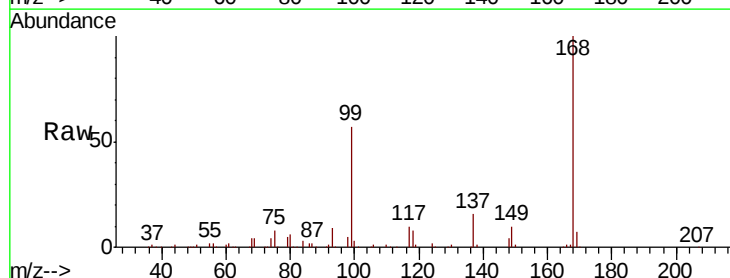
Tgt Ion: 117 Resp: 41911

Ion Ratio Lower Upper

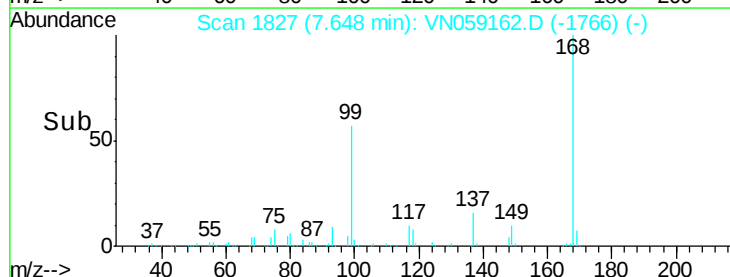
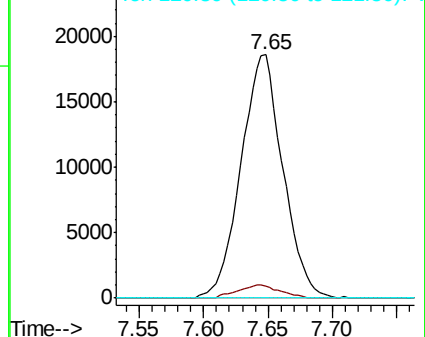
117 100

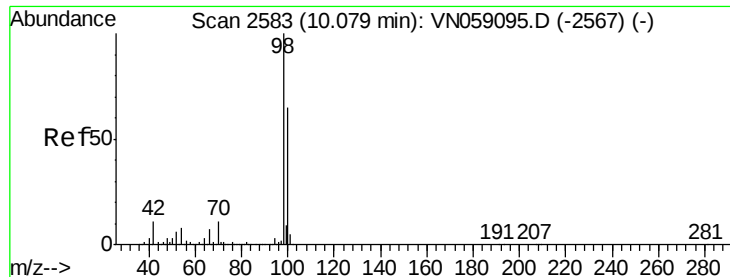
119 5.0 75.6 113.4#

121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.741 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

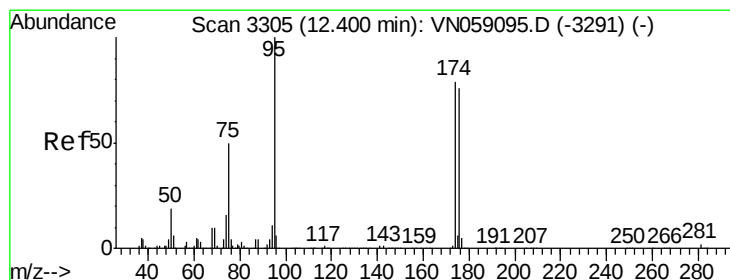
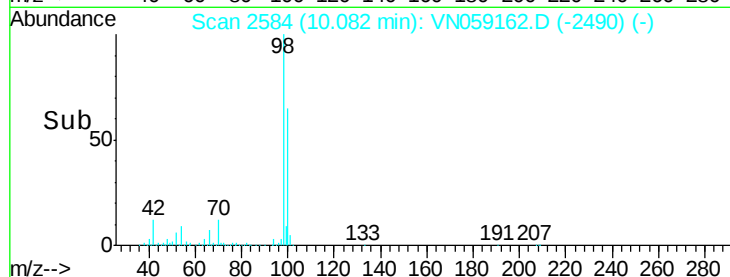
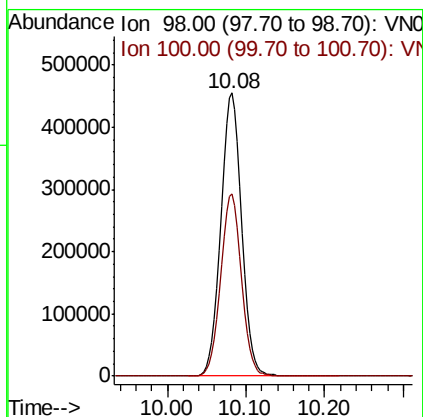
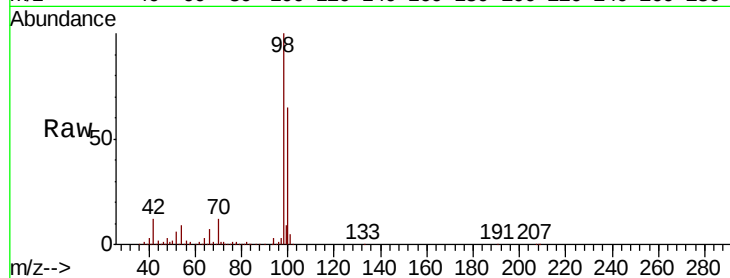
ClientSampled :

Tot Ion: 98 Resp: 827768

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 44.820 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

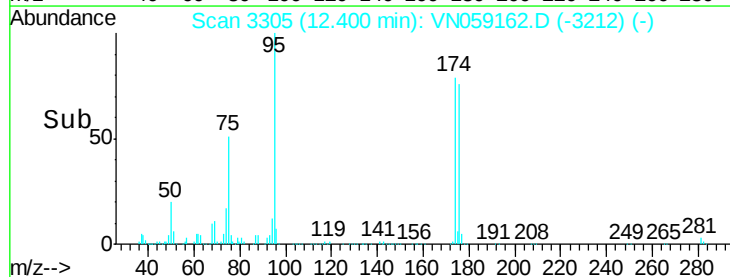
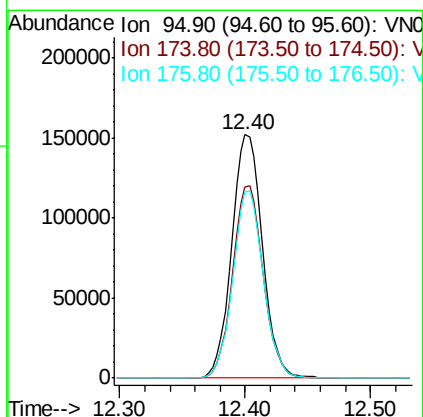
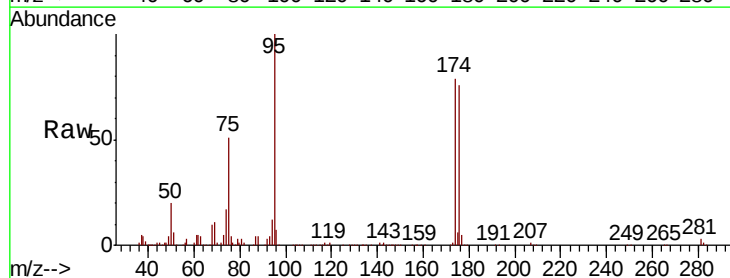
Tgt Ion: 95 Resp: 258540

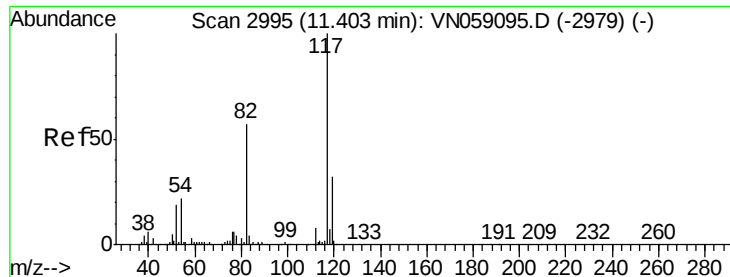
Ion Ratio Lower Upper

95 100

174 78.5 0.0 158.2

176 76.1 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: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

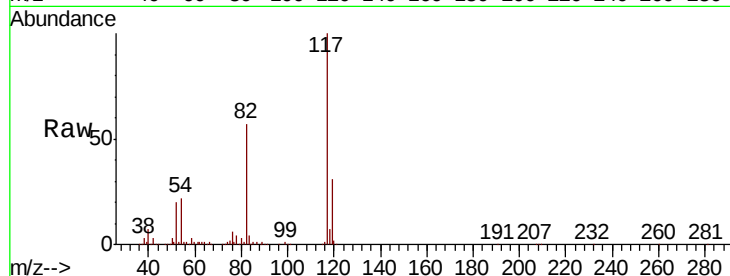
Tot Ion:117 Resp: 587539

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.8

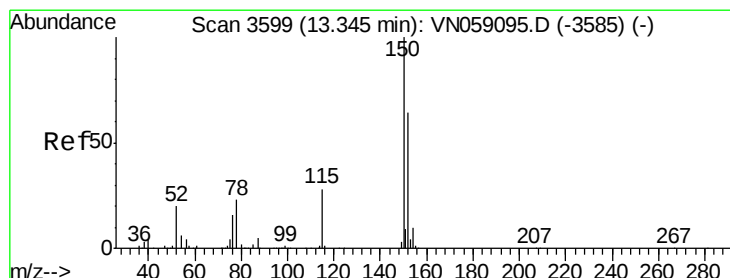
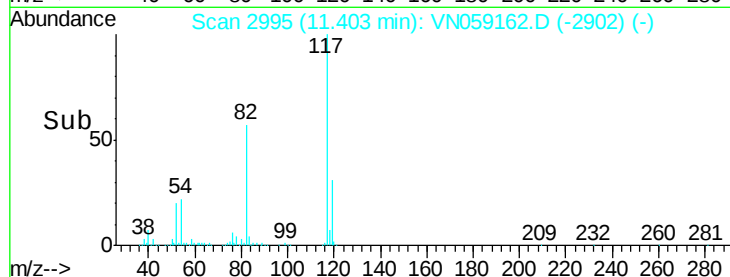
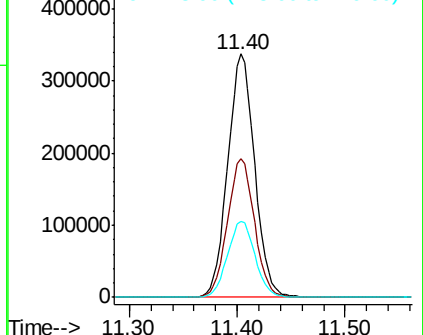
119 31.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): 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: VN059162.D

Acq: 11 Nov 2019 15:38

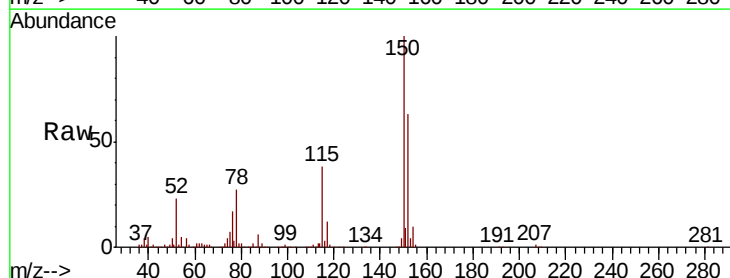
Tgt Ion:152 Resp: 208625

Ion Ratio Lower Upper

152 100

115 60.5 29.4 88.2

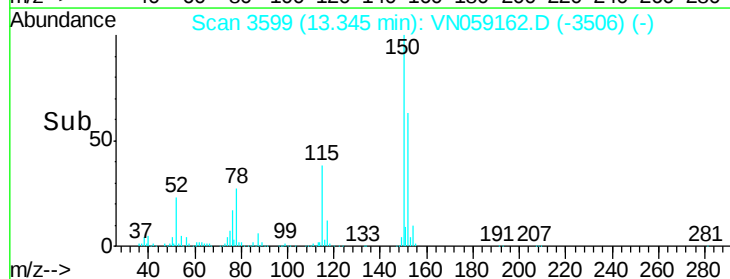
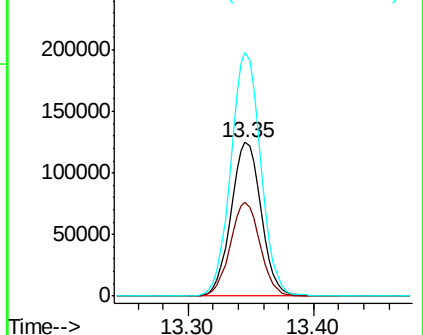
150 157.5 0.0 345.8

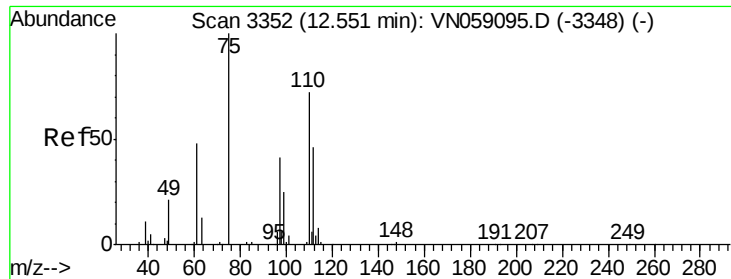


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.529 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

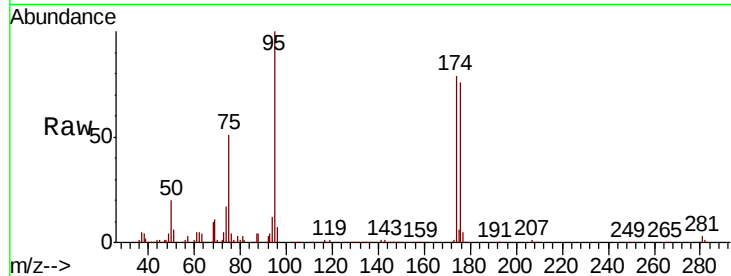
ClientSampleId :

Tot Ion: 75 Resp: 130754

Ion Ratio Lower Upper

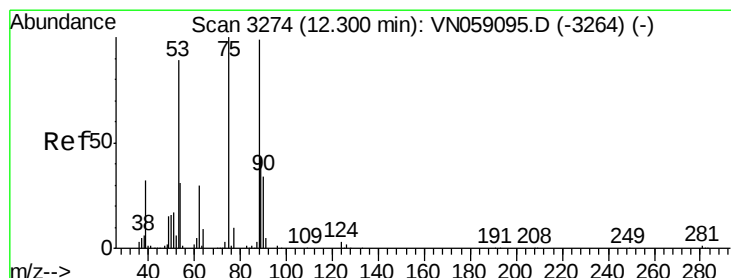
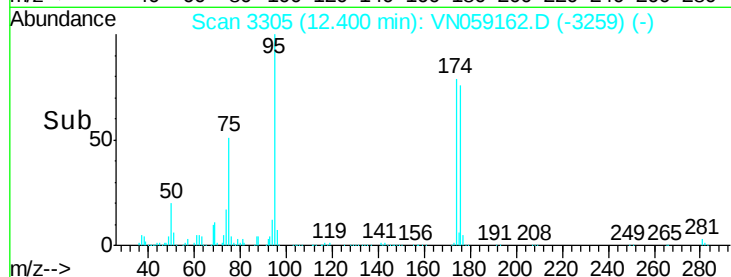
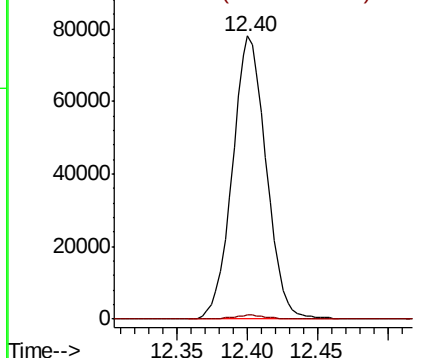
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.712 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

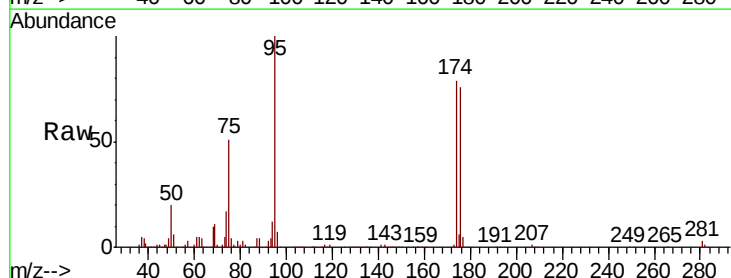
Tgt Ion: 75 Resp: 130754

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

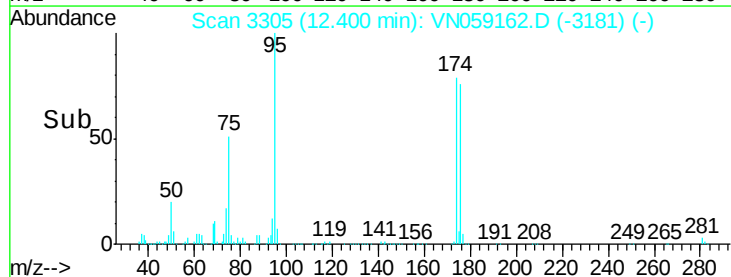
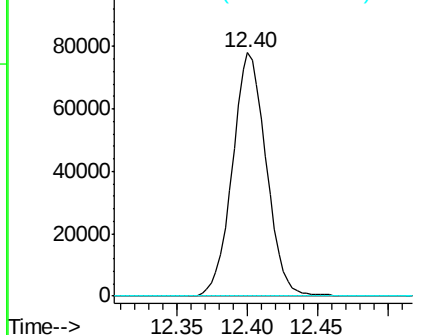
89 0.0 35.8 53.8#

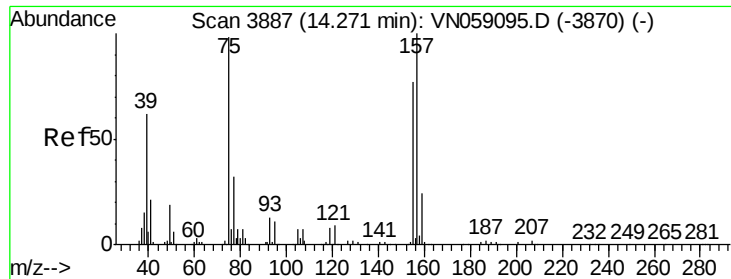


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 0.437 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.01 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

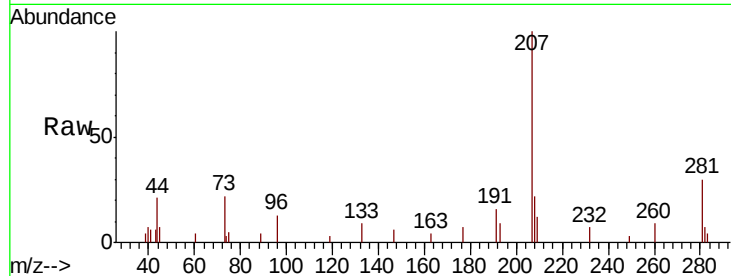
Tot Ion: 75 Resp: 424

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#

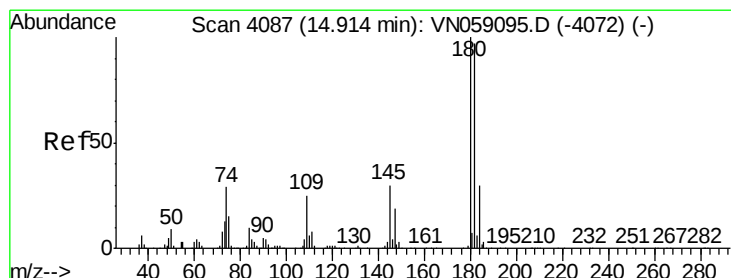
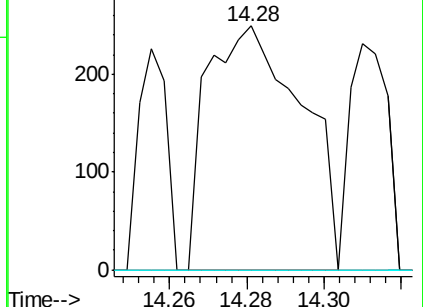
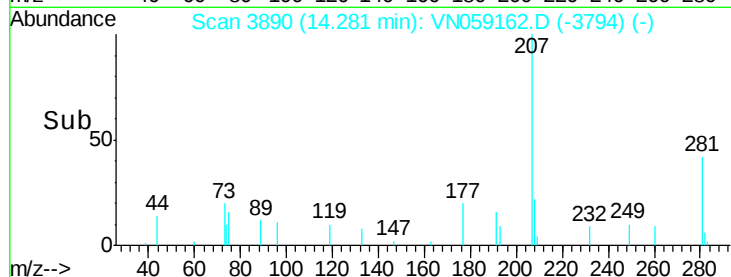


Abundance Ion 74.90 (74.60 to 75.60): VN059162.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN059162.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN059162.D (-3794) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.171 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

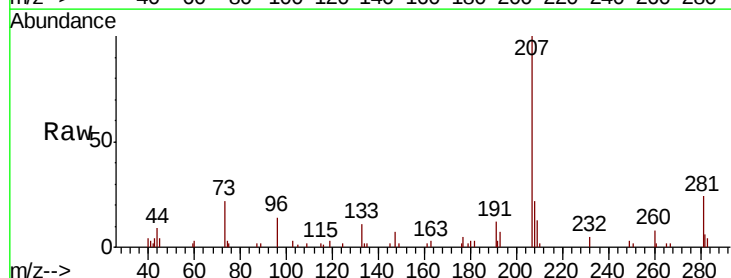
Tgt Ion: 180 Resp: 519

Ion Ratio Lower Upper

180 100

182 76.5 48.1 144.3

145 29.7 15.1 45.3

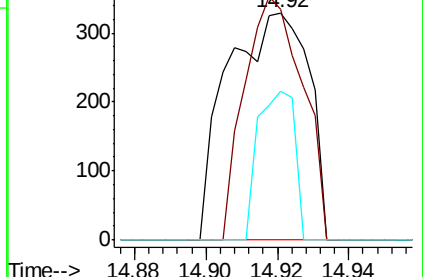
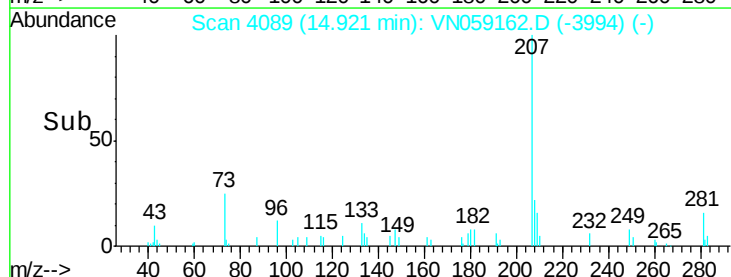


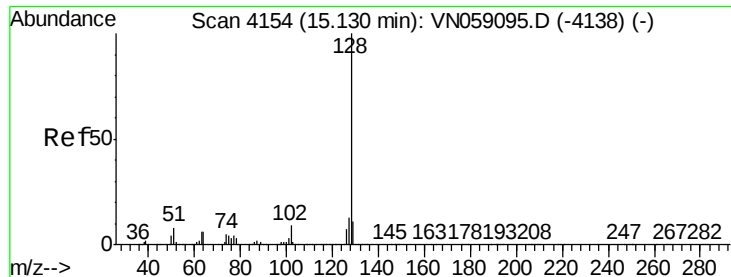
Abundance Ion 179.80 (179.50 to 180.50): VN059162.D (-3994) (-)

Ion 181.80 (181.50 to 182.50): VN059162.D (-3994) (-)

Ion 144.80 (144.50 to 145.50): VN059162.D (-3994) (-)

Time-->





#95

Naphthalene

Concen: 3.265 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

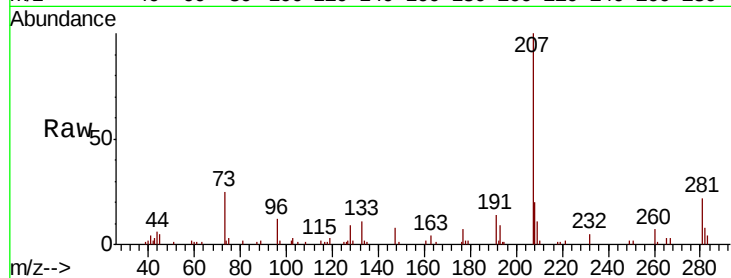
Tot Ion:128 Resp: 2534

Ion Ratio Lower Upper

128 100

127 9.7 10.2 15.2#

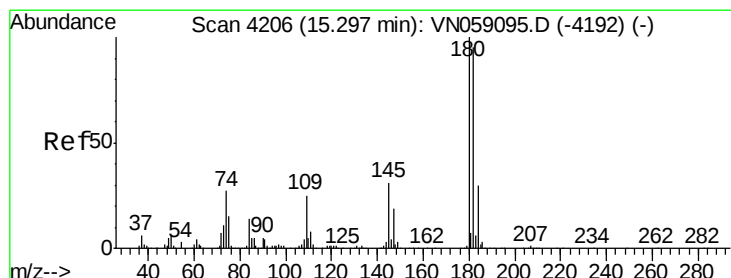
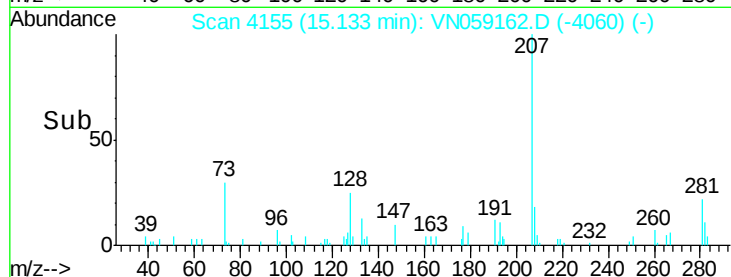
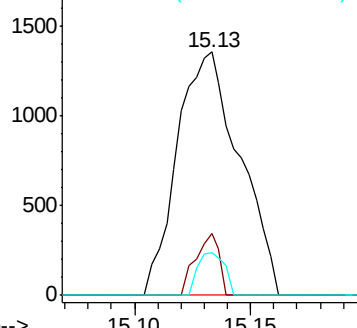
129 7.6 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.201 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059162.D

Acq: 11 Nov 2019 15:38

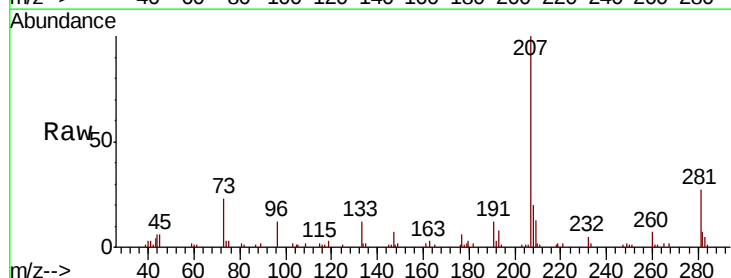
Tgt Ion:180 Resp: 724

Ion Ratio Lower Upper

180 100

182 95.4 47.3 141.8

145 32.3 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

