

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059791.D
 Acq On : 20 Jan 2020 16:54
 Operator : JC/MD
 Sample : L1014-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:19:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	209501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	310884	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	270266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109100	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	109032	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
35) Dibromofluoromethane	7.57	113	94727	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
50) Toluene-d8	10.08	98	362152	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.40	95	117264	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

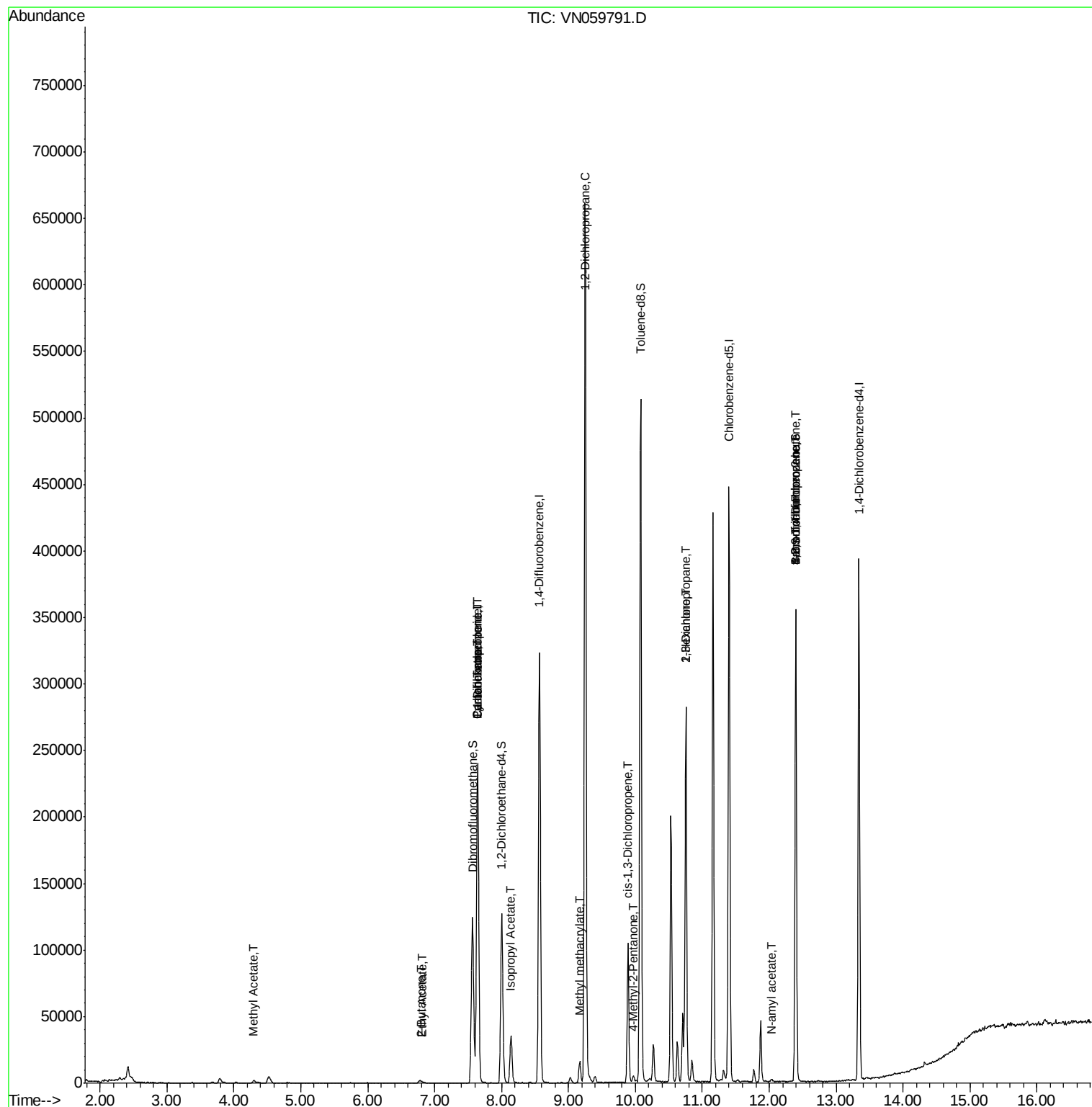
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6207	Below Cal		97
18) Methyl Acetate	4.30	43	3519	1.295	ug/l #	73
20) Methylene Chloride	4.52	84	1935	Below Cal	#	81
25) 2-Butanone	6.81	43	366	0.278	ug/l #	50
31) Cyclohexane	7.64	56	3754	1.091	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13470	4.975	ug/l #	51
37) Ethyl Acetate	6.82	43	767	0.302	ug/l #	69
38) Carbon Tetrachloride	7.64	117	18770	6.374	ug/l #	16
43) Isopropyl Acetate	8.14	43	43096	9.867	ug/l	91
45) 1,2-Dichloropropane	9.25	63	806	0.403	ug/l #	44
48) Methyl methacrylate	9.17	41	2312	1.183	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3494	1.384	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	20237	6.065	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	2953	0.921	ug/l #	42
59) 2-Hexanone	10.75	43	39102	21.023	ug/l #	55
71) Bromoform	12.39	173	441	0.268	ug/l #	1
74) N-amyl acetate	12.03	43	1945	0.626	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	58941	32.102	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	58941	68.940	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.31	75	164	Below Cal	#	6

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

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Quant Time: Jan 21 01:19:31 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

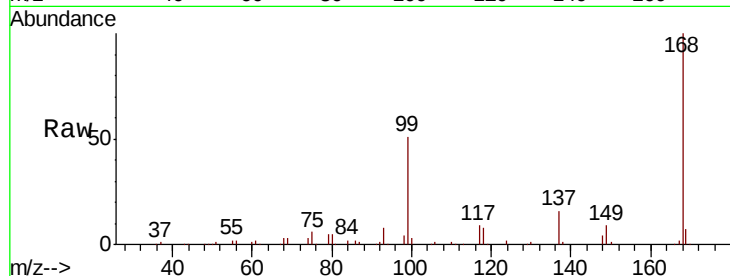
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 209501

Ion Ratio Lower Upper

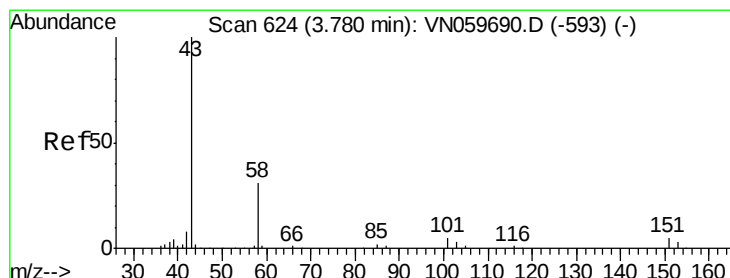
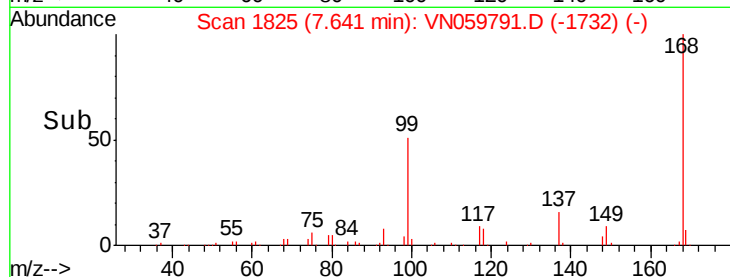
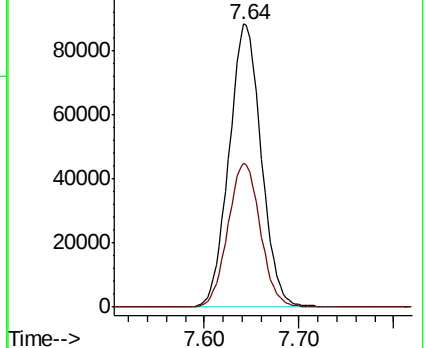
168 100

99 51.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059791.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059791.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059791.D

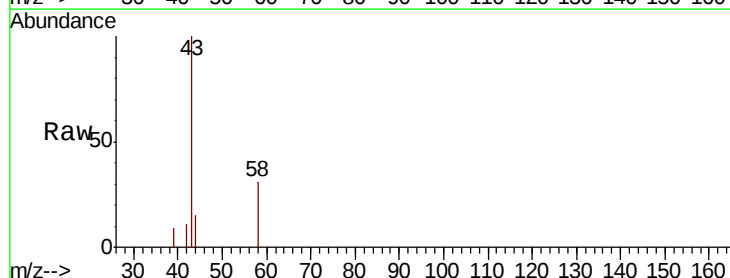
Acq: 20 Jan 2020 16:54

Tgt Ion: 43 Resp: 6207

Ion Ratio Lower Upper

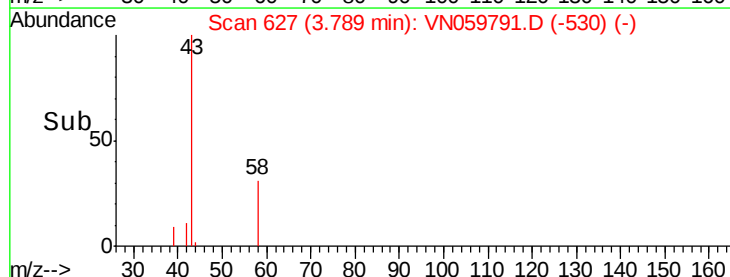
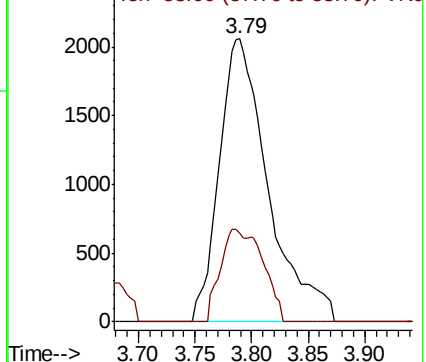
43 100

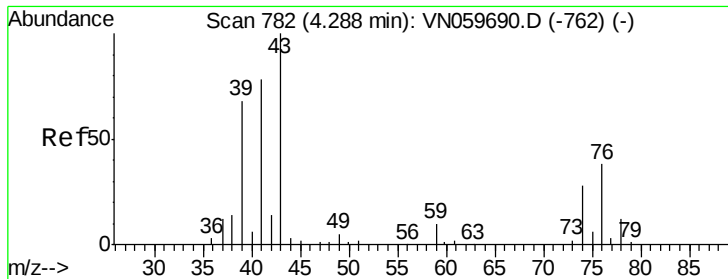
58 31.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059791.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059791.D (-530) (-)

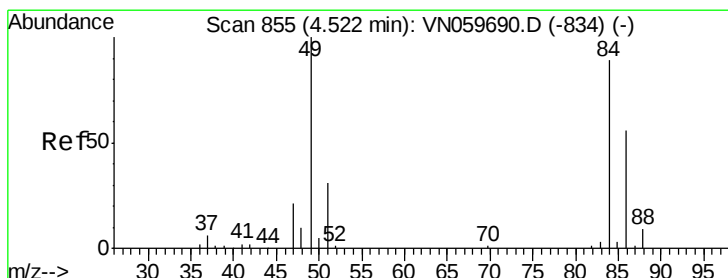
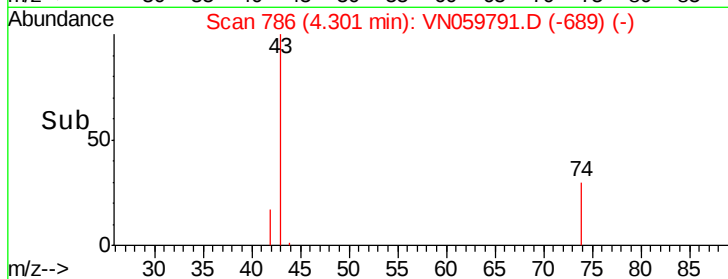
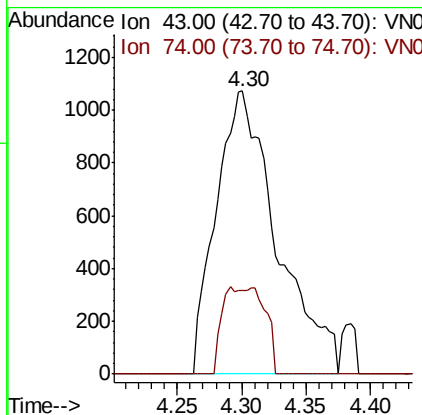
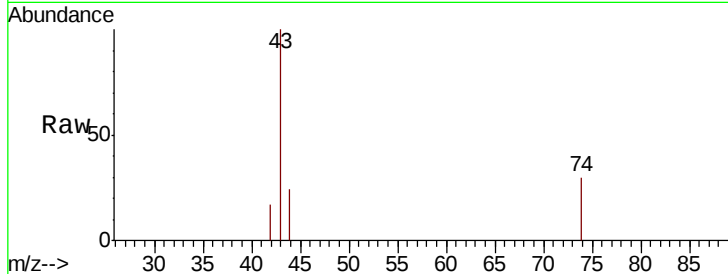




#18
Methyl Acetate
Concen: 1.295 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

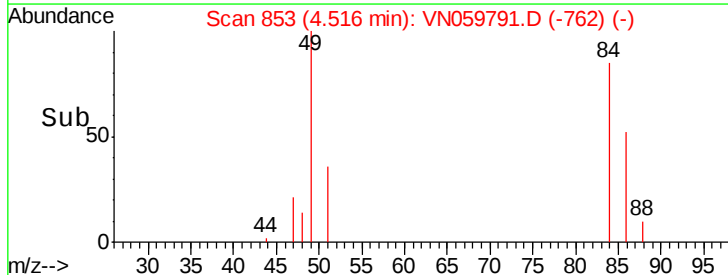
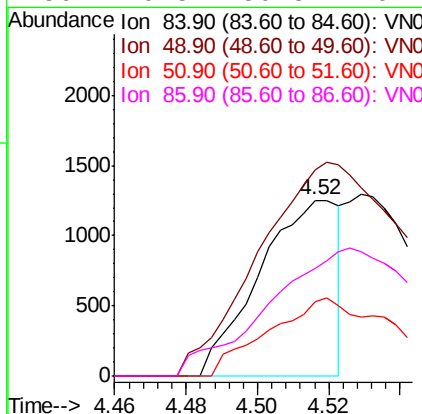
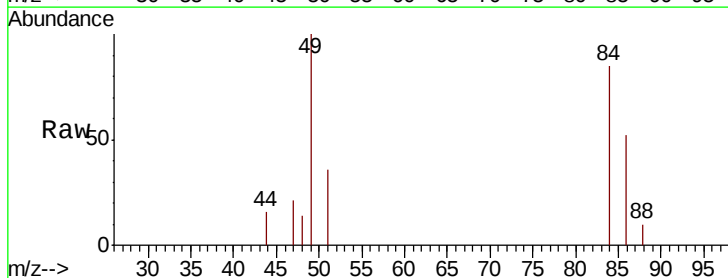
Instrument :
MSVOA_N
ClientSampleId :

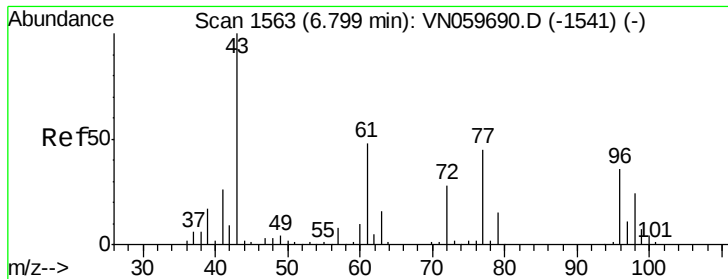
Tot Ion: 43 Resp: 3519
Ion Ratio Lower Upper
43 100
74 9.0 17.5 26.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

Tgt Ion: 84 Resp: 1935
Ion Ratio Lower Upper
84 100
49 104.2 106.6 160.0#
51 42.5 31.9 47.9
86 49.5 50.8 76.2#

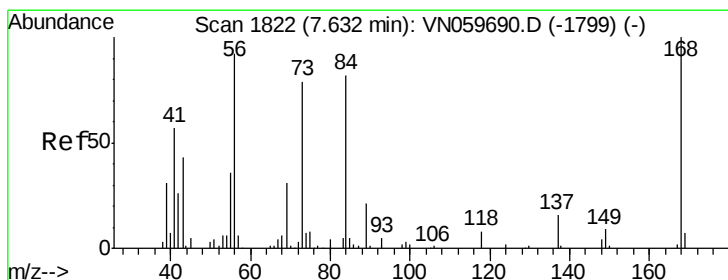
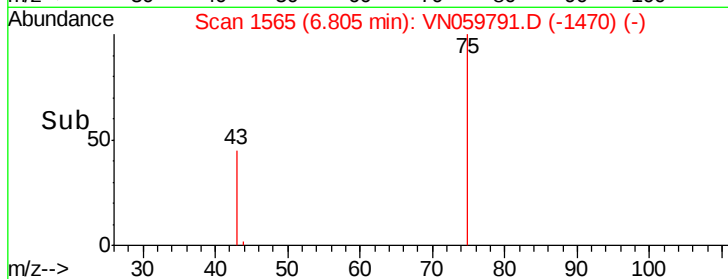
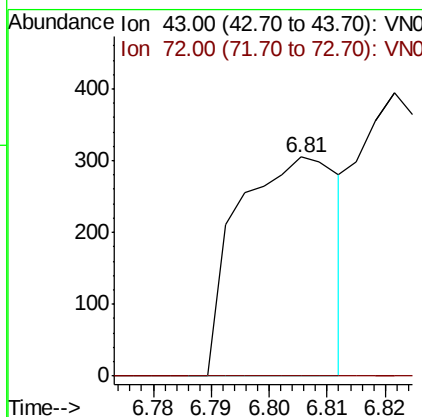
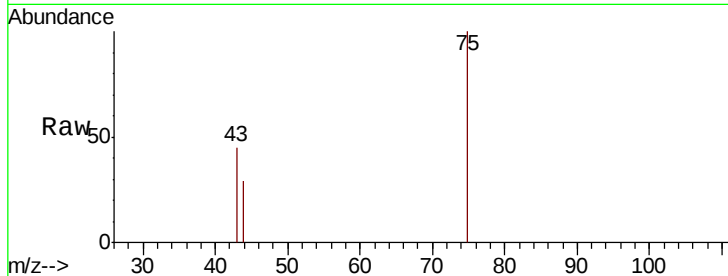




#25
2-Butanone
Concen: 0.278 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

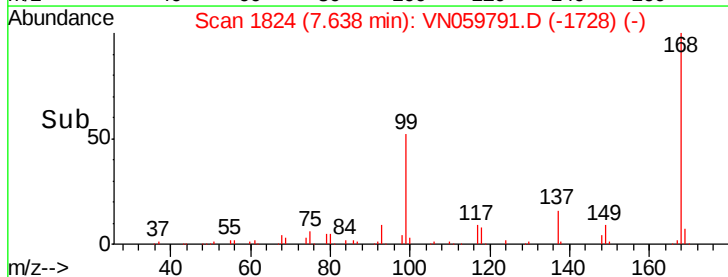
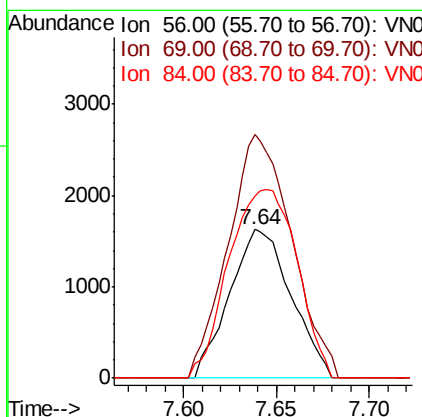
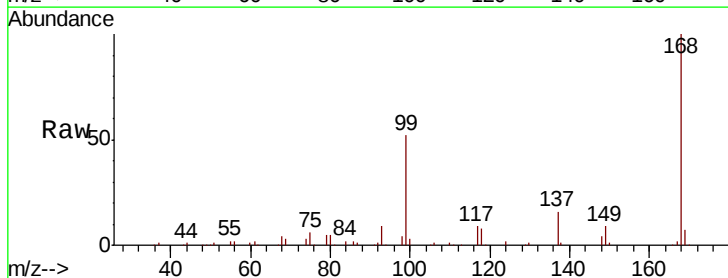
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 366
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.091 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

Tgt Ion: 56 Resp: 3754
Ion Ratio Lower Upper
56 100
69 164.1 26.5 39.7#
84 123.0 65.3 97.9#

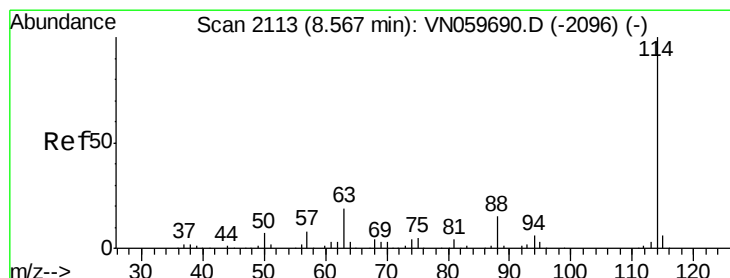
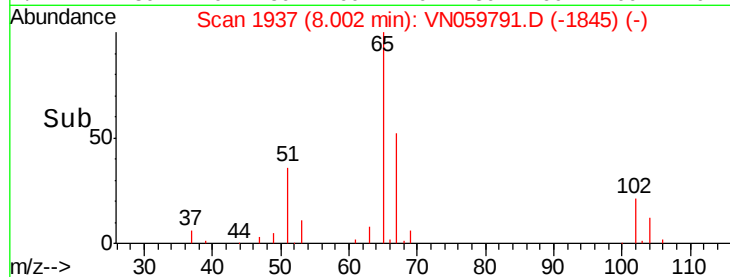
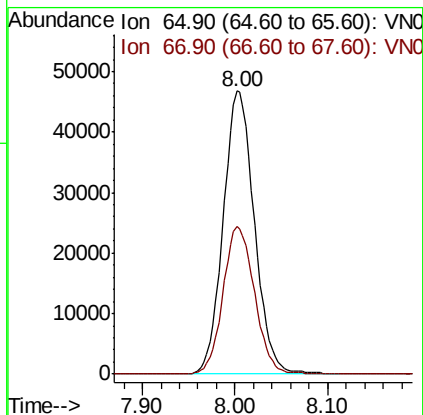
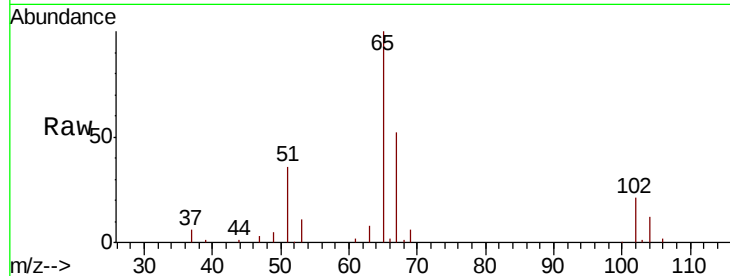




#33
 1,2-Dichloroethane-d4
 Concen: 46.864 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN059791.D
 Acq: 20 Jan 2020 16:54

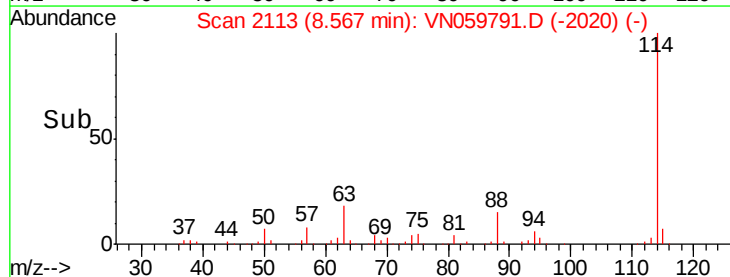
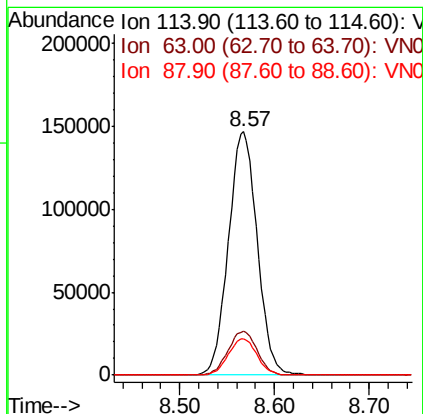
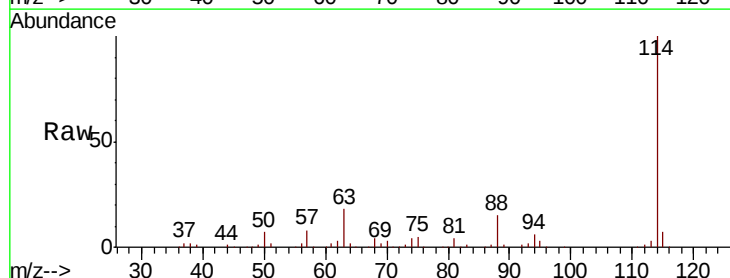
Instrument :
 MSVOA_N
 ClientSampled :

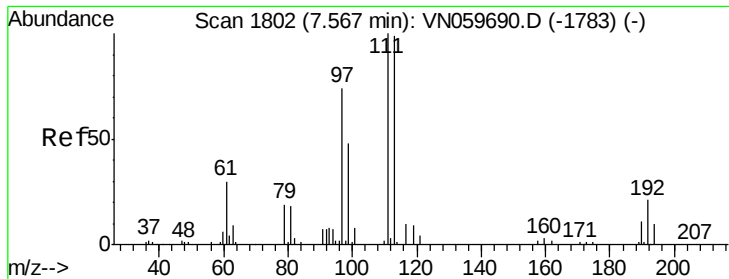
Tot Ion: 65 Resp: 109032
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059791.D
 Acq: 20 Jan 2020 16:54

Tgt Ion: 114 Resp: 310884
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 43.6
 88 14.9 0.0 31.4

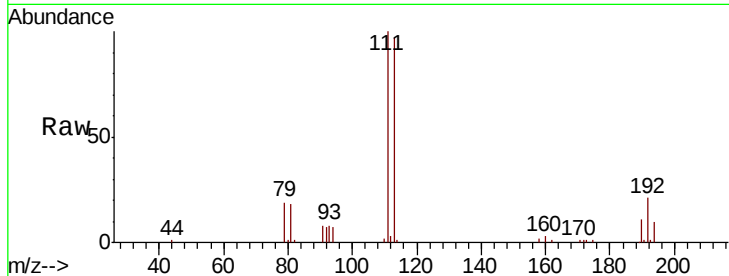




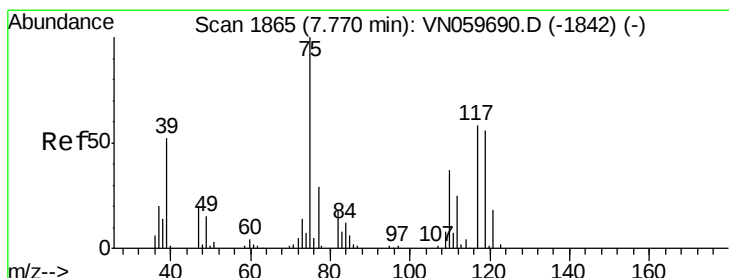
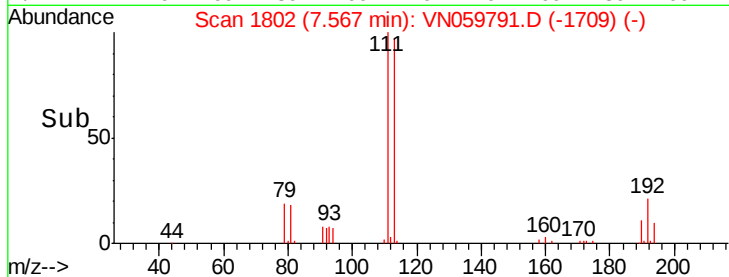
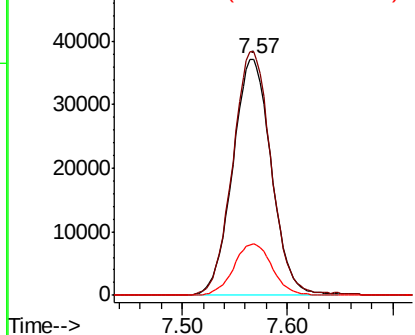
#35
 Dibromofluoromethane
 Concen: 51.095 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059791.D
 Acq: 20 Jan 2020 16:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 94727
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.5 125.3
 192 21.6 15.4 23.2

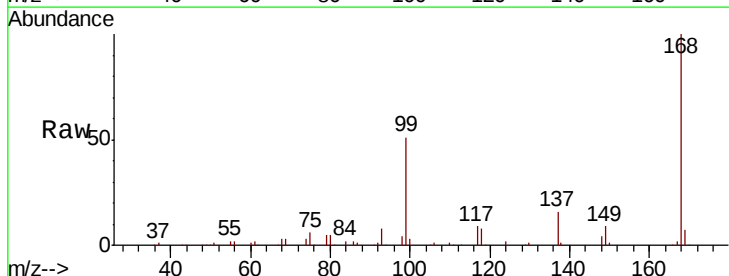


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

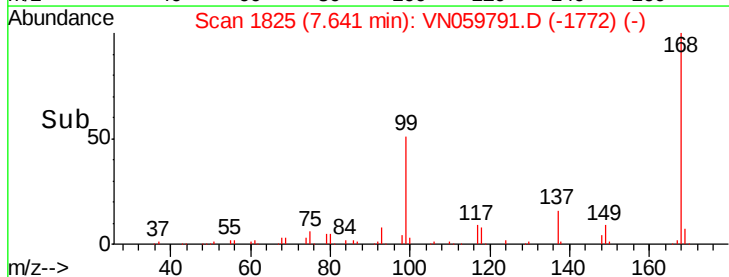
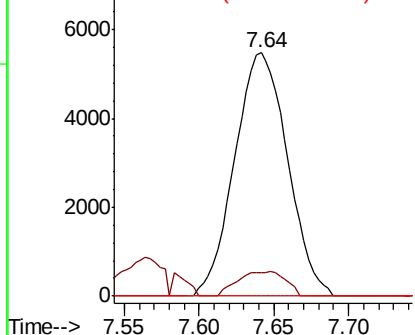


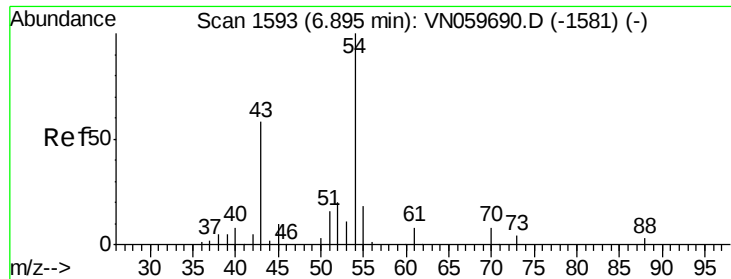
#36
 1,1-Dichloropropene
 Concen: 4.975 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059791.D
 Acq: 20 Jan 2020 16:54

Tgt Ion: 75 Resp: 13470
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.6 49.7#
 77 0.0 25.1 37.7#



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

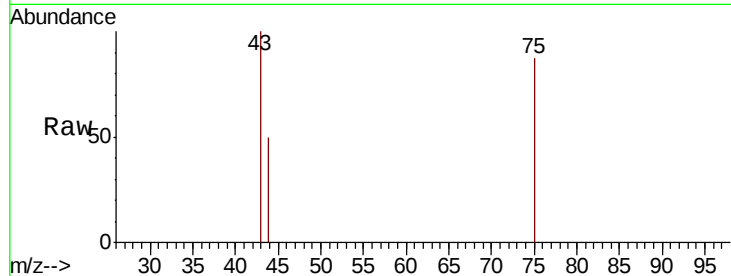




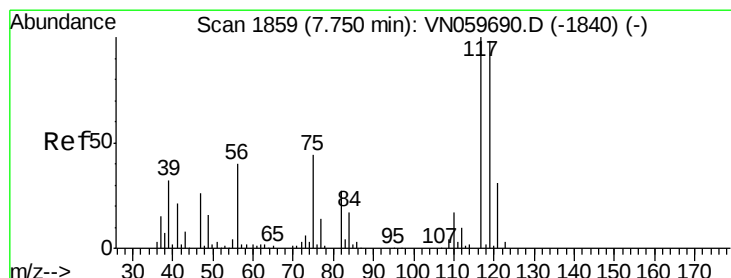
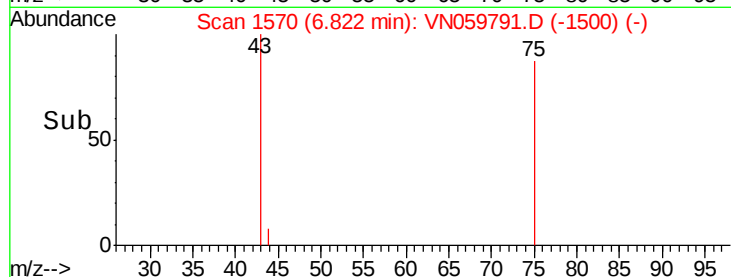
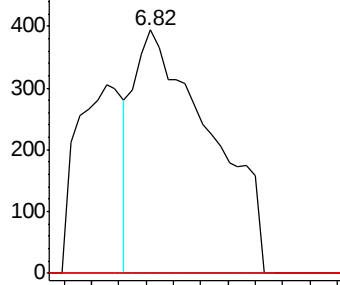
#37
Ethyl Acetate
Concen: 0.302 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.07 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 767
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

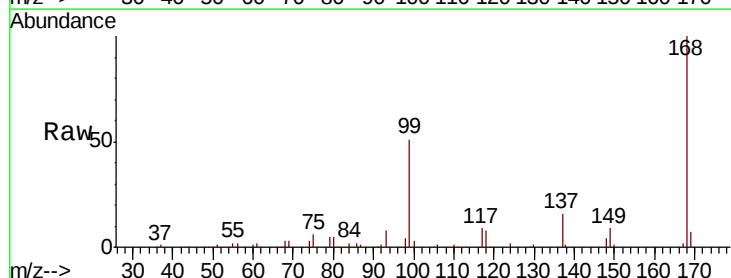


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

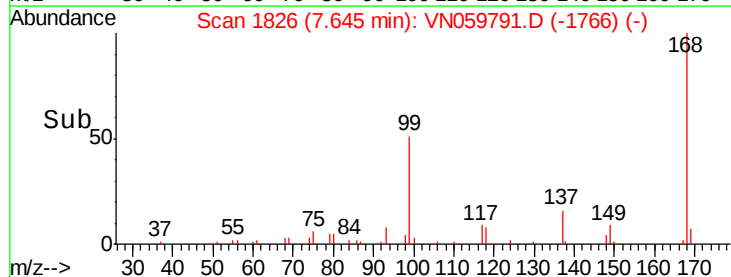
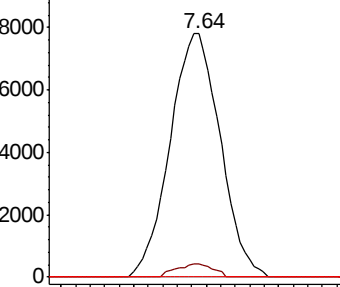


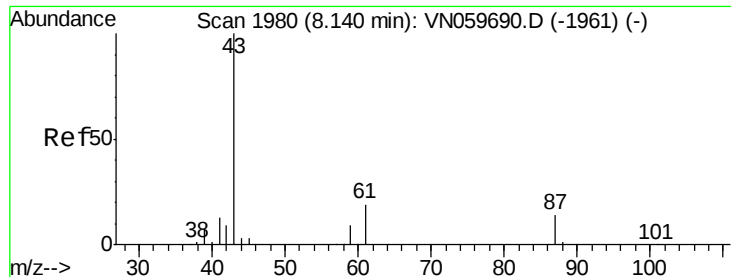
#38
Carbon Tetrachloride
Concen: 6.374 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

Tgt Ion: 117 Resp: 18770
Ion Ratio Lower Upper
117 100
119 5.4 76.5 114.7#
121 0.0 25.1 37.7#



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





#43

Isopropyl Acetate

Concen: 9.867 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

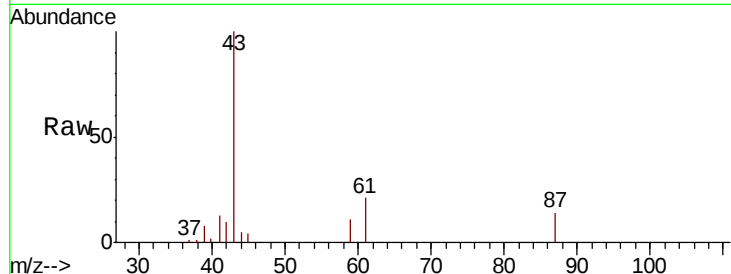
Tot Ion: 43 Resp: 43096

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

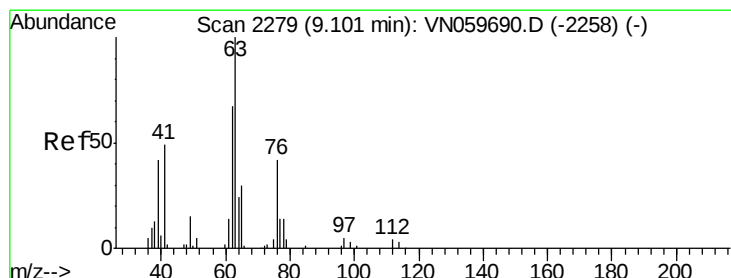
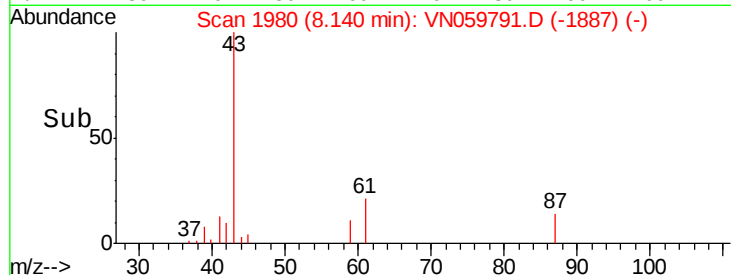
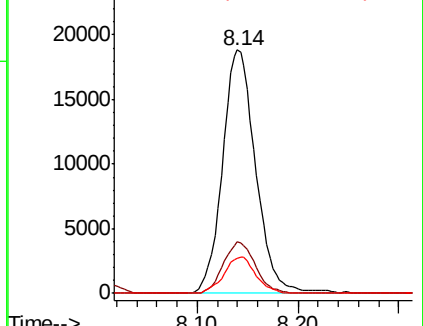
87 14.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN059791.D (-2186) (-)

Ion 61.00 (60.70 to 61.70): VN059791.D (-2186) (-)

Ion 87.00 (86.70 to 87.70): VN059791.D (-2186) (-)



#45

1,2-Dichloropropane

Concen: 0.403 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059791.D

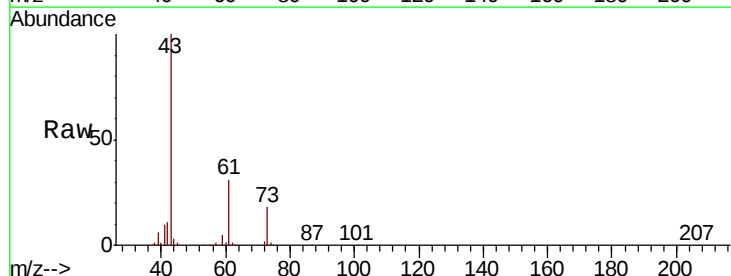
Acq: 20 Jan 2020 16:54

Tgt Ion: 63 Resp: 806

Ion Ratio Lower Upper

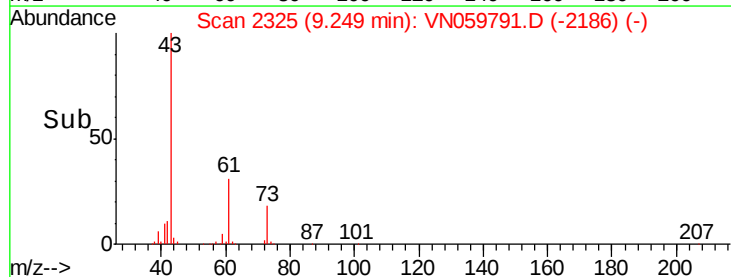
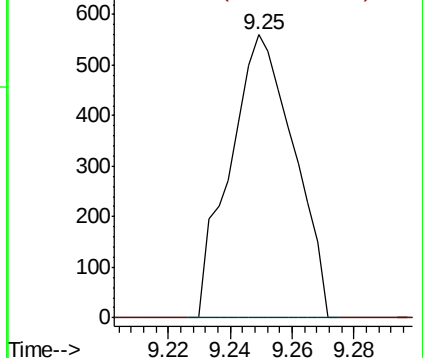
63 100

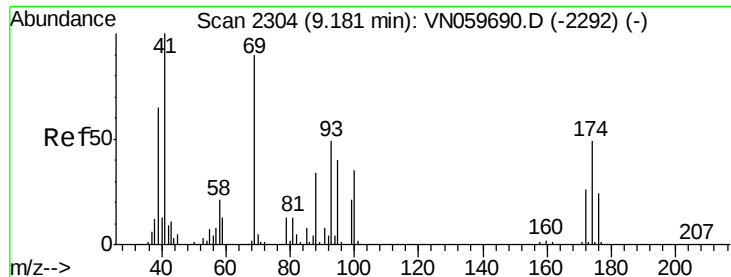
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059791.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059791.D (-2186) (-)

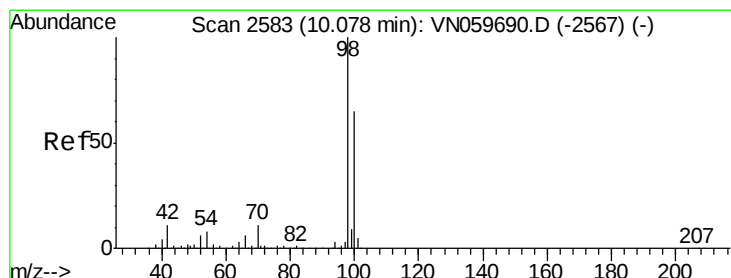
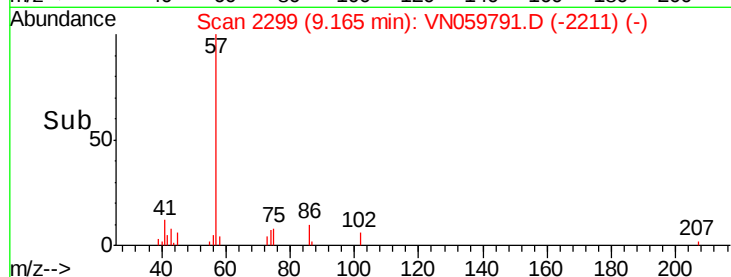
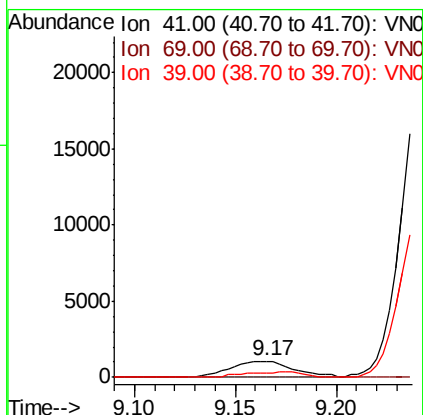
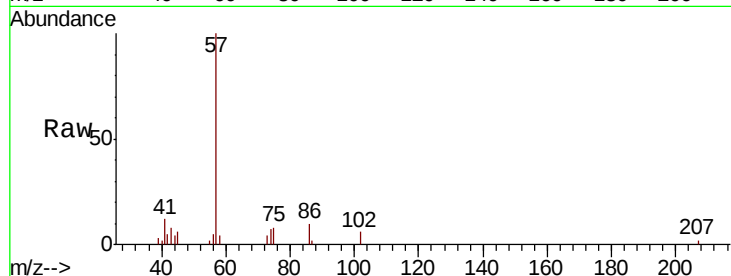




#48
Methvl methacrylate
Concen: 1.183 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

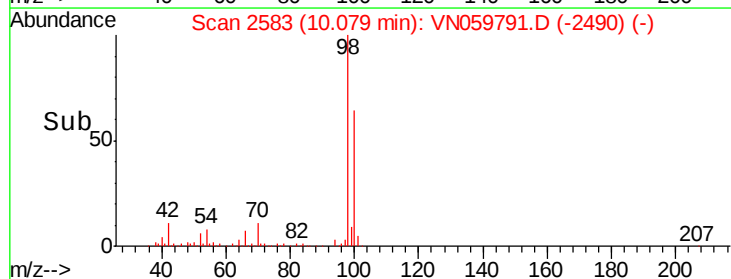
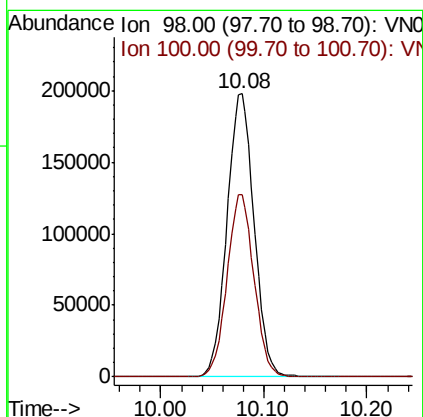
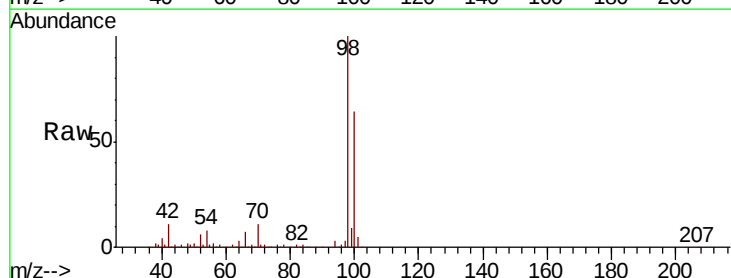
Instrument :
MSVOA_N
ClientSampleId :

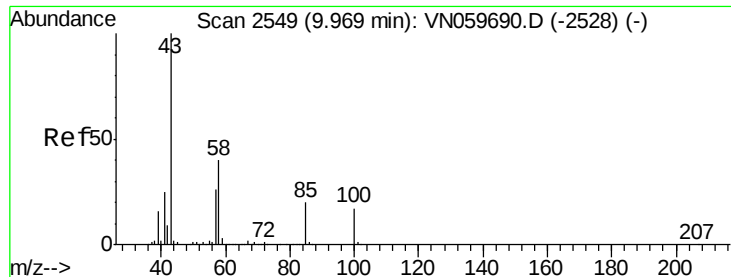
Tot Ion: 41 Resp: 2312
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.417 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059791.D
Acq: 20 Jan 2020 16:54

Tgt Ion: 98 Resp: 362152
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.384 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

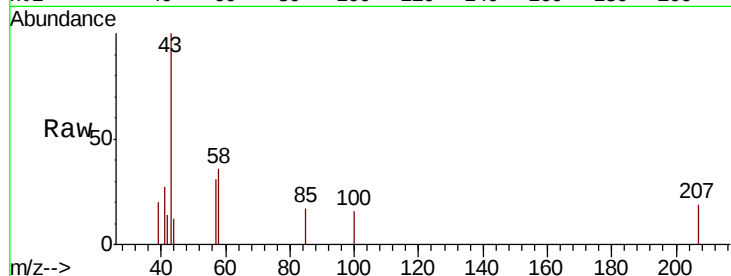
ClientSampled :

Tot Ion: 43 Resp: 3494

Ion Ratio Lower Upper

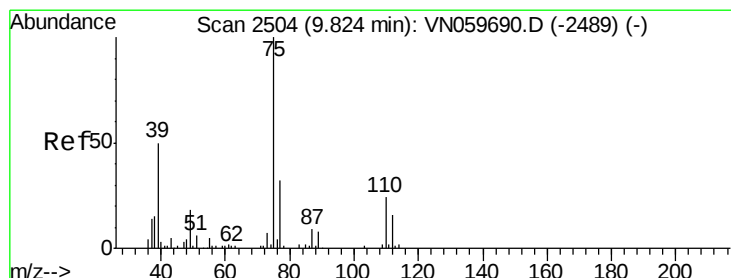
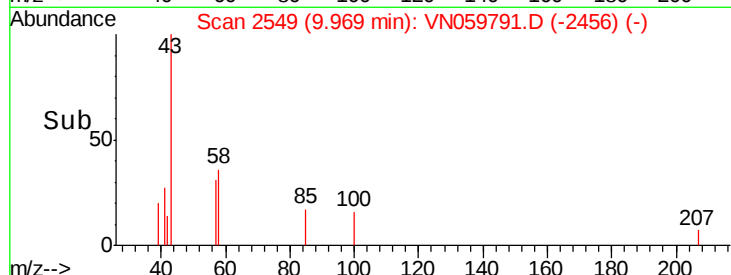
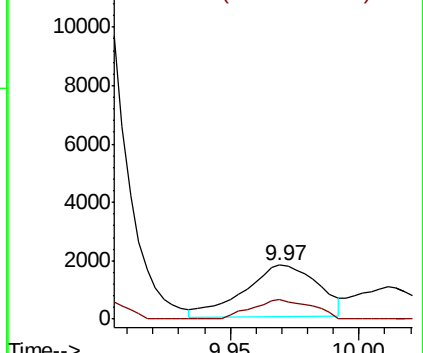
43 100

58 31.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059791.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN059791.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.065 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

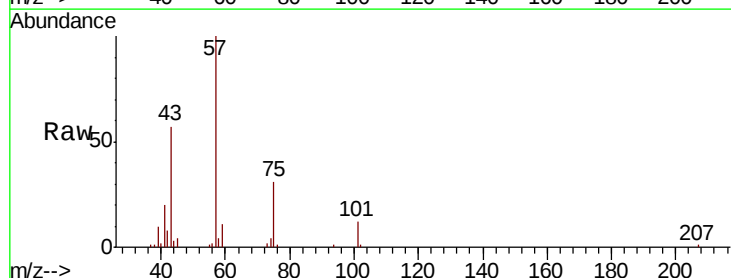
Tgt Ion: 75 Resp: 20237

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

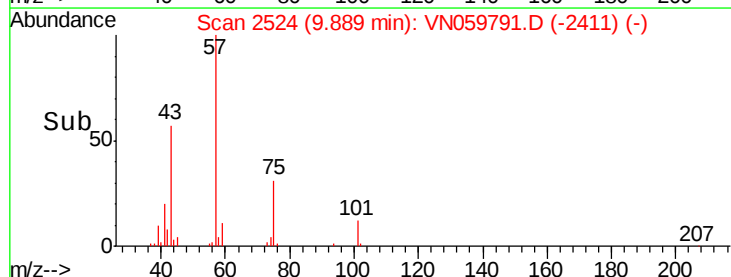
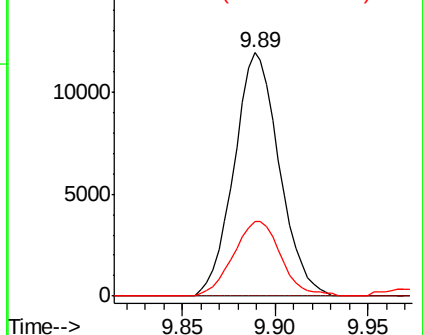
39 30.6 46.1 69.1#

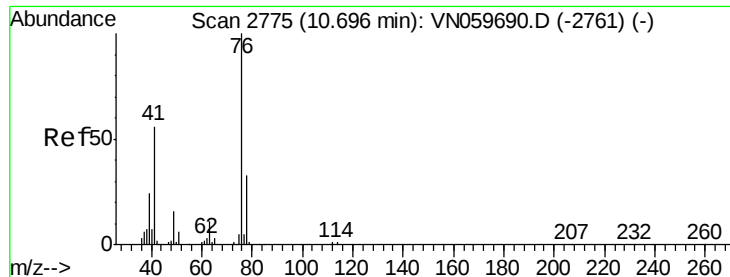


Abundance Ion 74.90 (74.60 to 75.60): VN059791.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN059791.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN059791.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 0.921 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

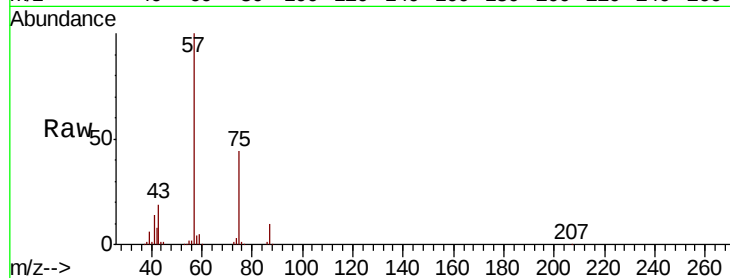
ClientSampled :

Tot Ion: 76 Resp: 2953

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

2000

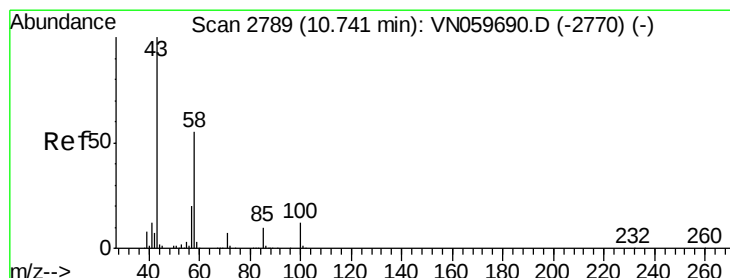
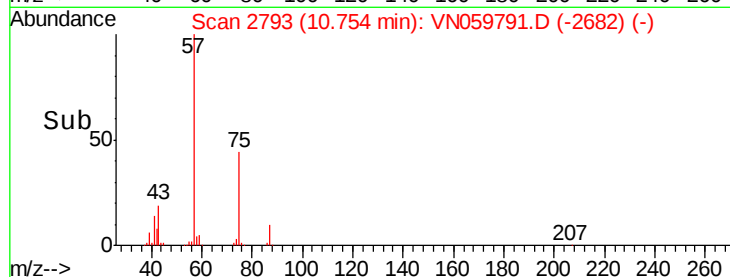
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 21.023 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059791.D

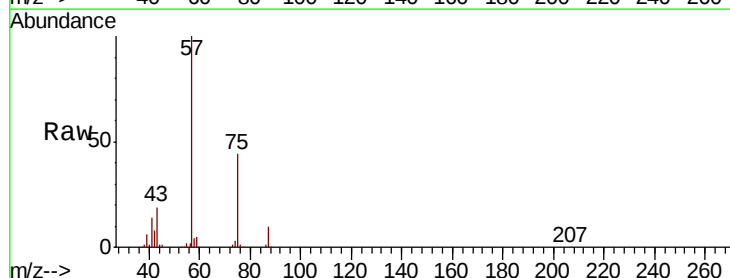
Acq: 20 Jan 2020 16:54

Tgt Ion: 43 Resp: 39102

Ion Ratio Lower Upper

43 100

58 20.0 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

25000

20000

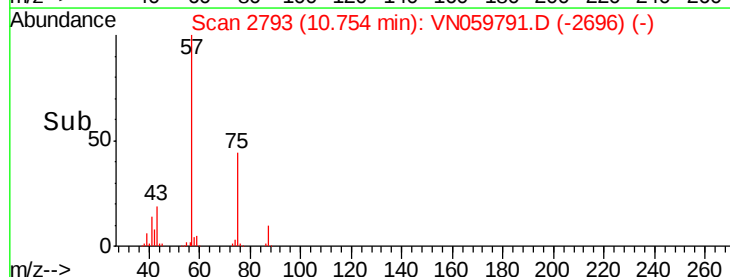
15000

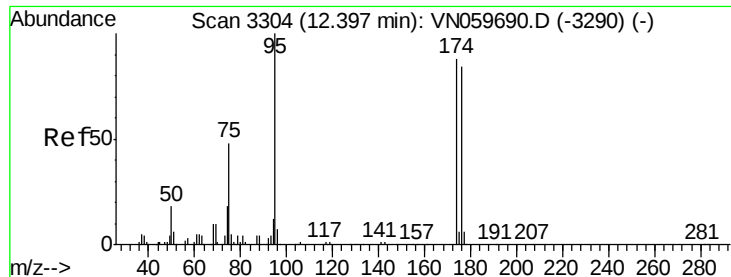
10000

5000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 45.285 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

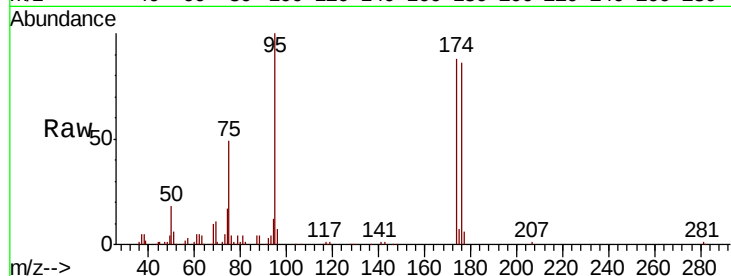
Tot Ion: 95 Resp: 117264

Ion Ratio Lower Upper

95 100

174 88.6 0.0 151.4

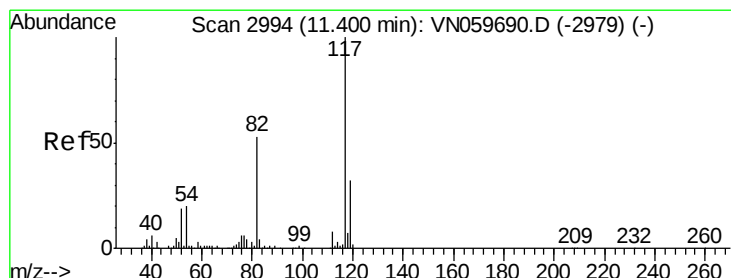
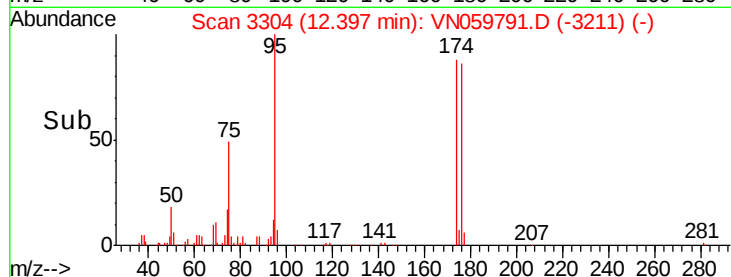
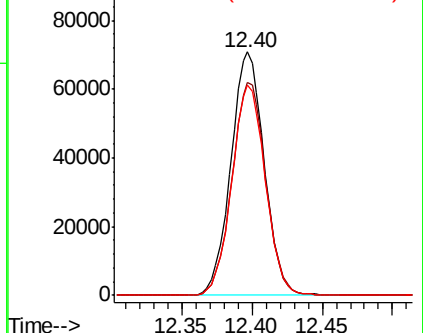
176 87.0 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

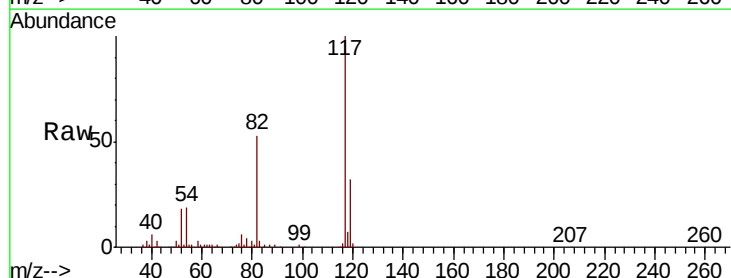
Tgt Ion: 117 Resp: 270266

Ion Ratio Lower Upper

117 100

82 52.7 45.9 68.9

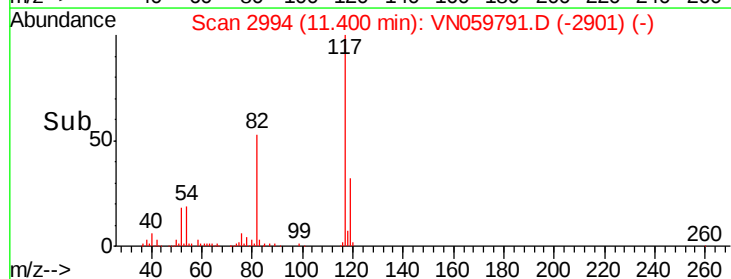
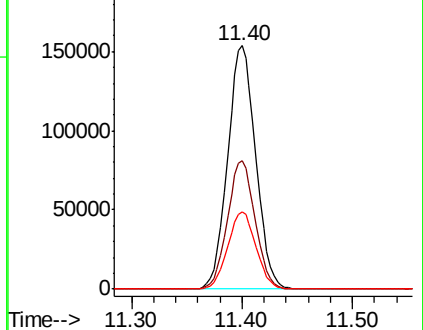
119 31.8 25.5 38.3

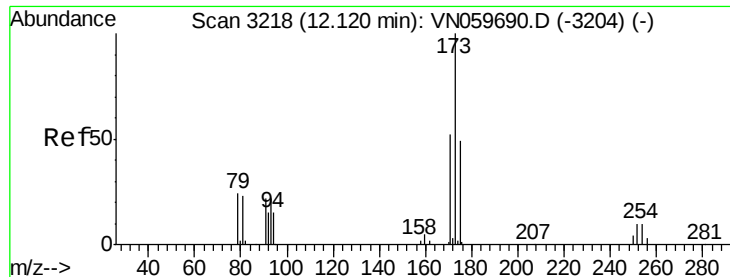


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#71

Bromoform

Concen: 0.268 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

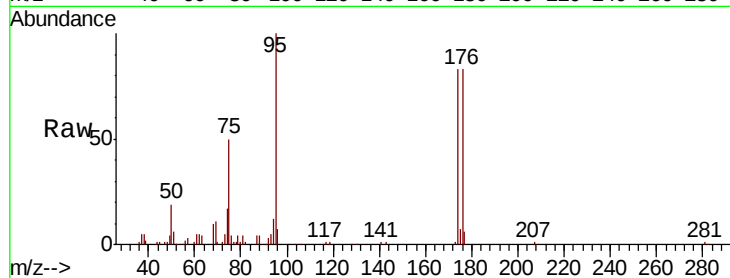
Tot Ion:173 Resp: 441

Ion Ratio Lower Upper

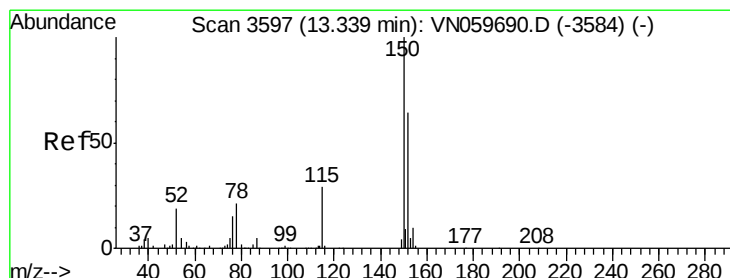
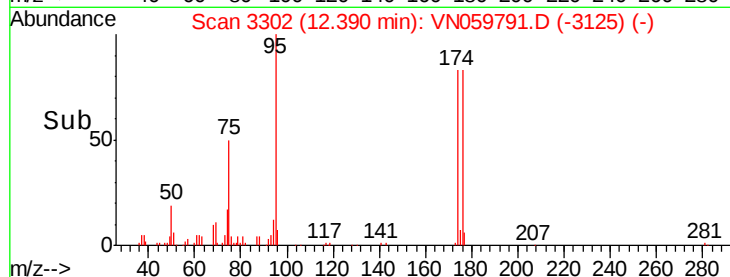
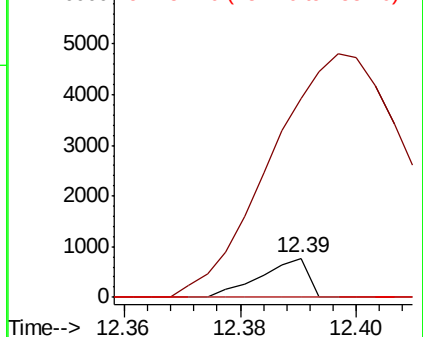
173 100

175 1509.1 23.8 71.4#

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

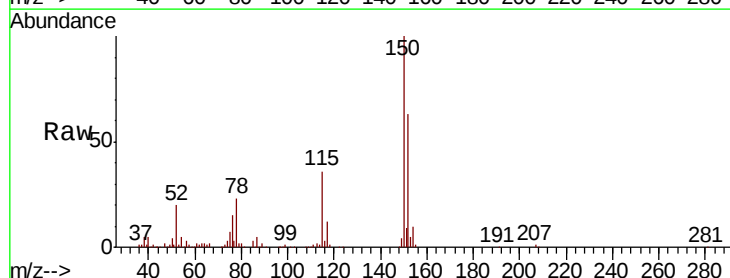
Tgt Ion:152 Resp: 109100

Ion Ratio Lower Upper

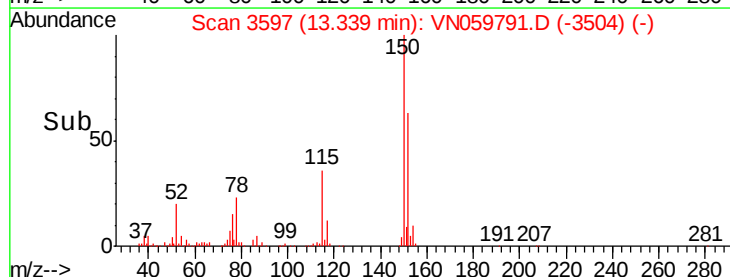
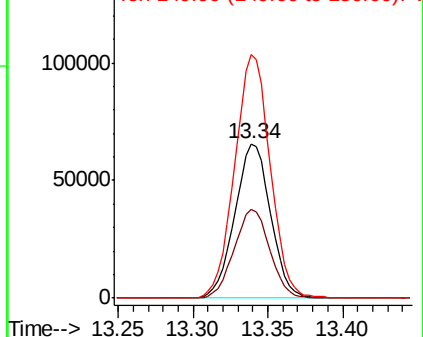
152 100

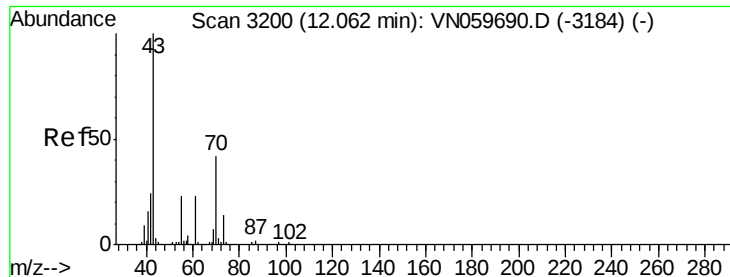
115 57.4 30.3 90.9

150 157.1 0.0 345.2



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: 0.626 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1945

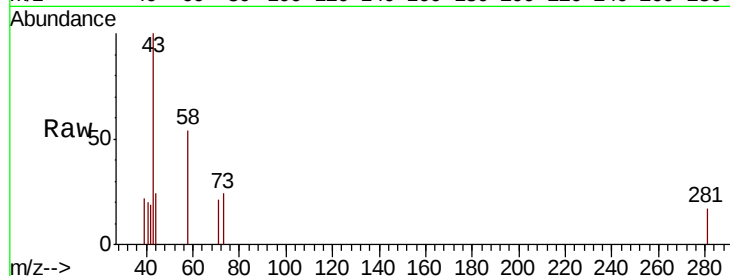
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

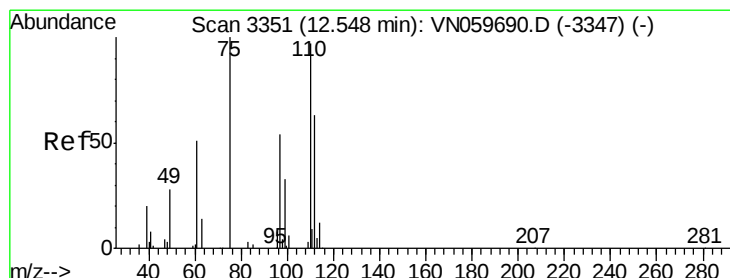
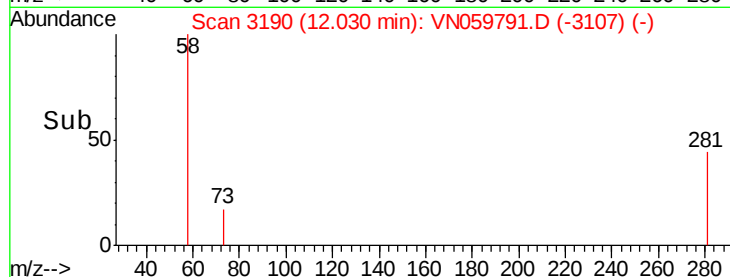
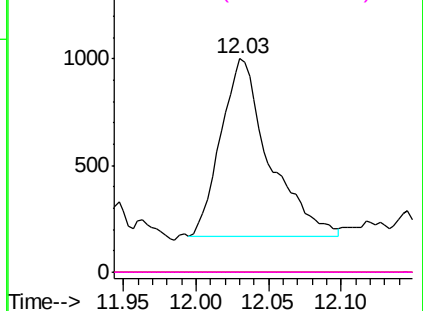


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 32.102 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059791.D

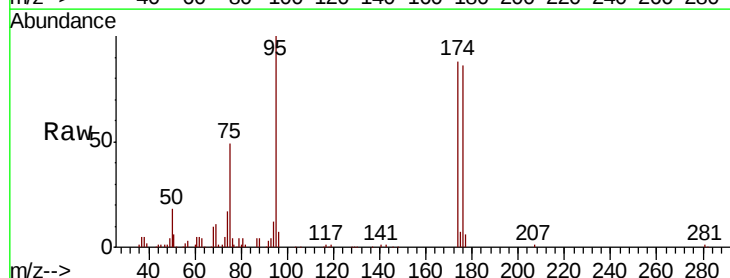
Acq: 20 Jan 2020 16:54

Tgt Ion: 75 Resp: 58941

Ion Ratio Lower Upper

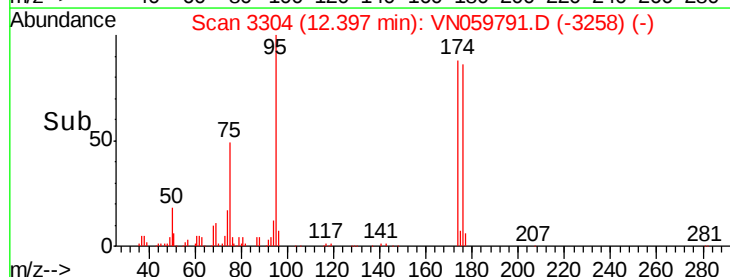
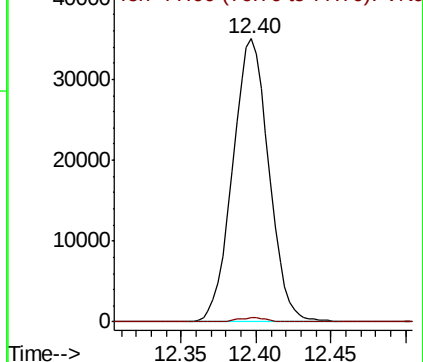
75 100

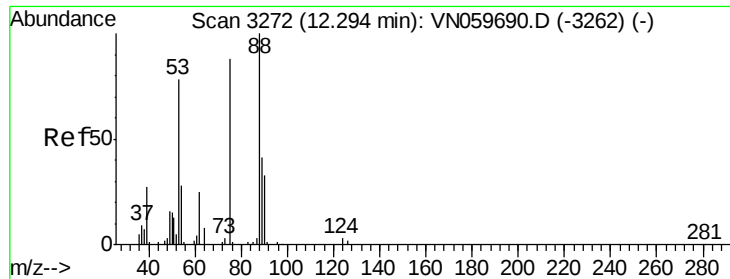
77 1.0 0.0 0.0#



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: 68.940 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

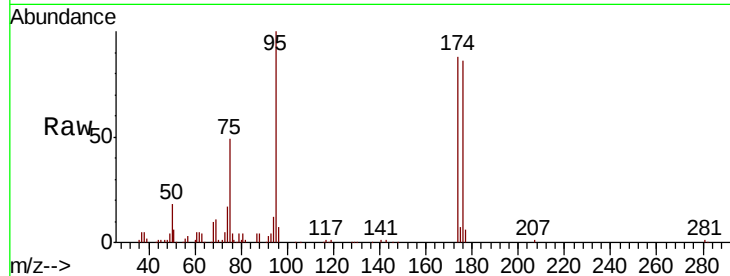
Tot Ion: 75 Resp: 58941

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

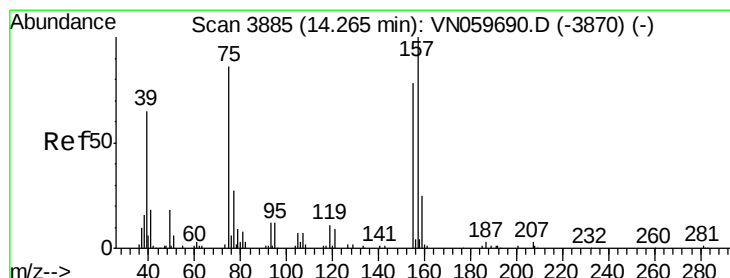
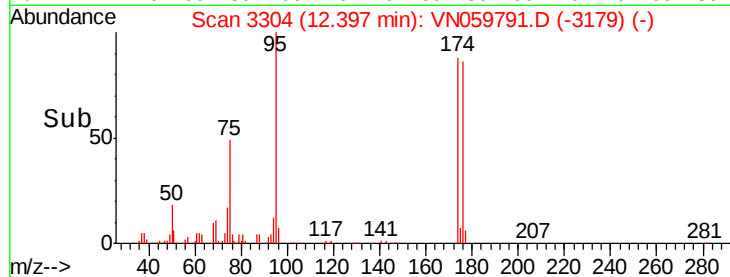
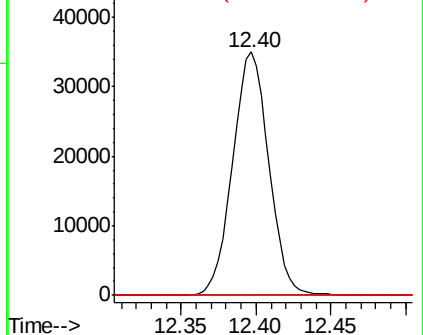
89 0.0 35.4 53.2#



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: Below Cal

RT: 14.31 min Scan# 3898

Delta R.T. 0.04 min

Lab File: VN059791.D

Acq: 20 Jan 2020 16:54

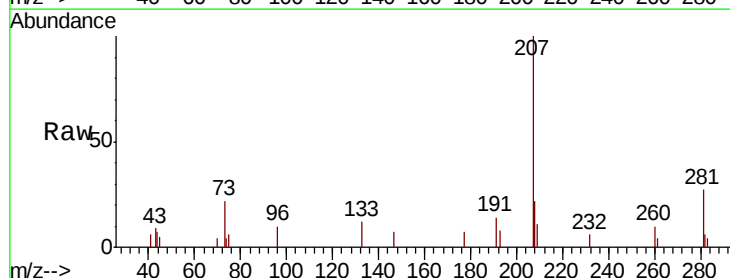
Tgt Ion: 75 Resp: 164

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



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

