

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059910.D
 Acq On : 29 Jan 2020 14:24
 Operator : JC/MD
 Sample : L1289-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:02:23 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	207957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	316036	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	285694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	118407	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	111751	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
35) Dibromofluoromethane	7.57	113	95882	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	10.08	98	373974	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	12.40	95	126174	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	

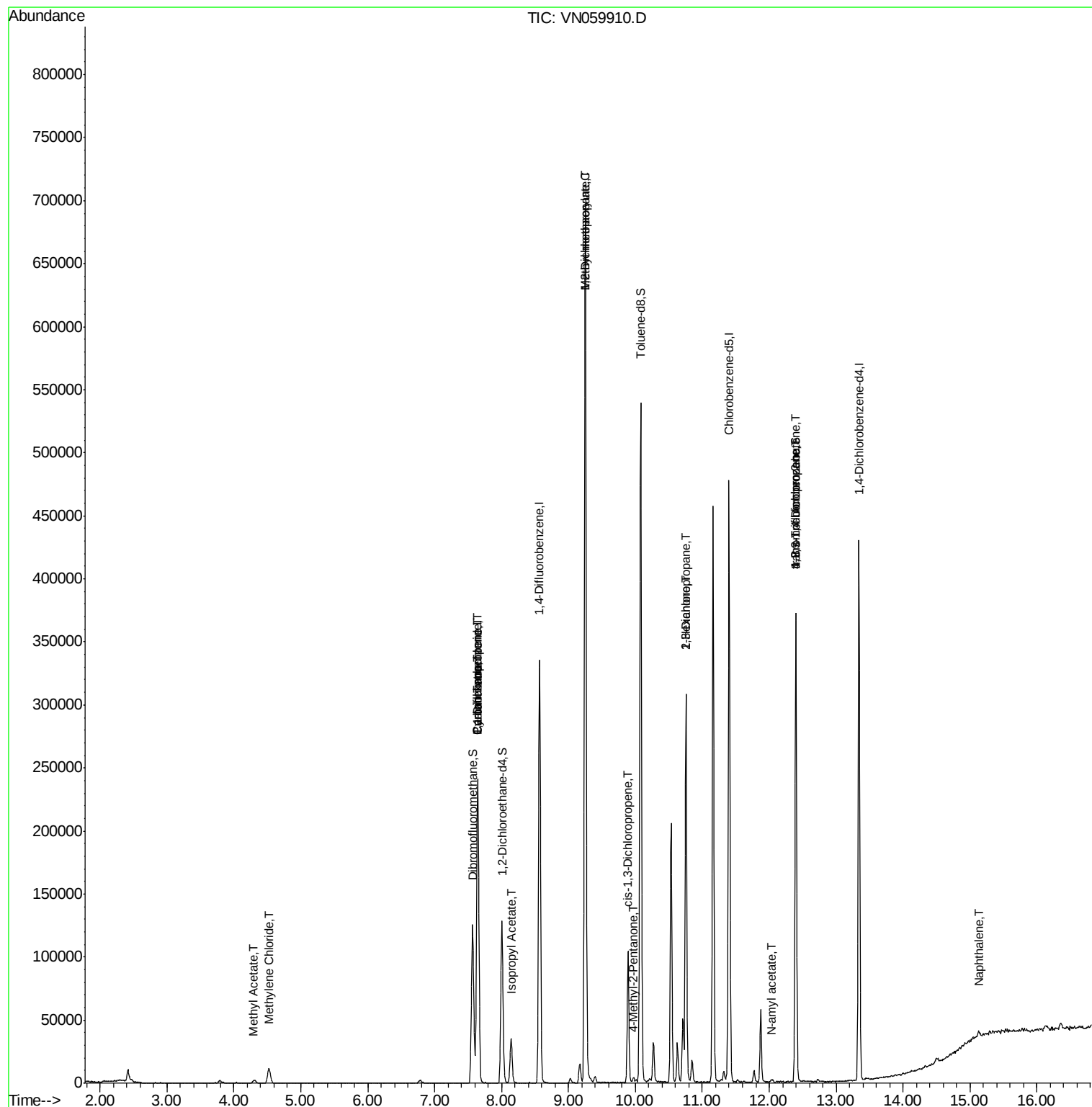
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3595	Below Cal		95
18) Methyl Acetate	4.29	43	4492	1.665	ug/l #	76
20) Methylene Chloride	4.52	84	9822	3.497	ug/l	86
31) Cyclohexane	7.64	56	3855	1.128	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13866	5.038	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18995	6.345	ug/l #	16
43) Isopropyl Acetate	8.14	43	41645	9.380	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	808	0.398	ug/l #	44
48) Methyl methacrylate	9.25	41	64893	32.676	ug/l #	46
51) 4-Methyl-2-Pentanone	9.97	43	2910	1.134	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	20059	5.914	ug/l #	57
57) 1,3-Dichloropropane	10.76	76	3323	1.019	ug/l #	42
59) 2-Hexanone	10.75	43	44066	23.305	ug/l #	54
74) N-amyl acetate	12.03	43	848	0.252	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63081	31.657	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63081	67.982	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.29	75	32	Below Cal	#	6
95) Naphthalene	15.14	128	3331	0.516	ug/l #	92

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

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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# 1826

Delta R.T. 0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

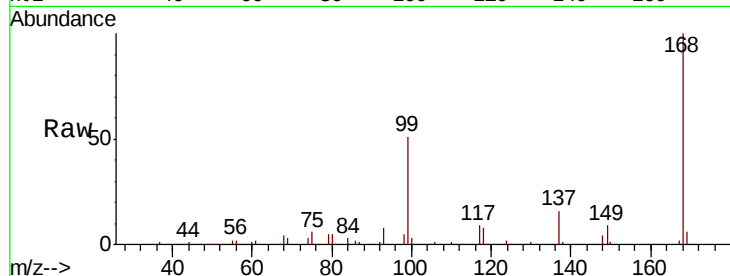
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 207957

Ion Ratio Lower Upper

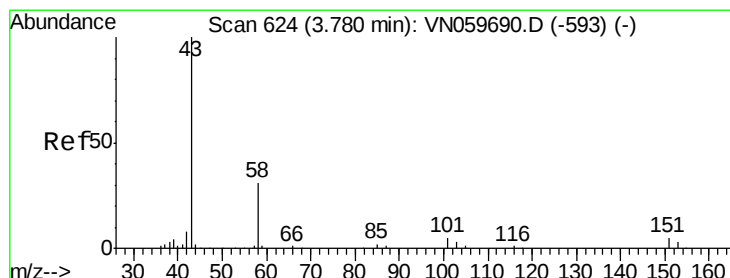
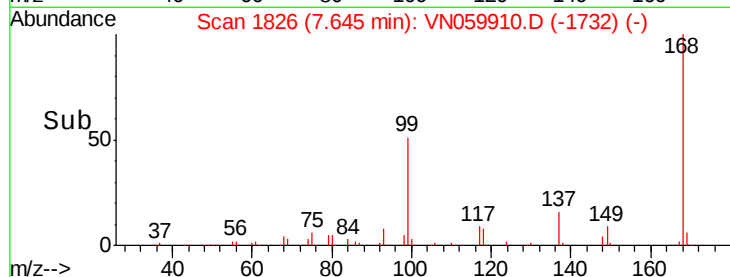
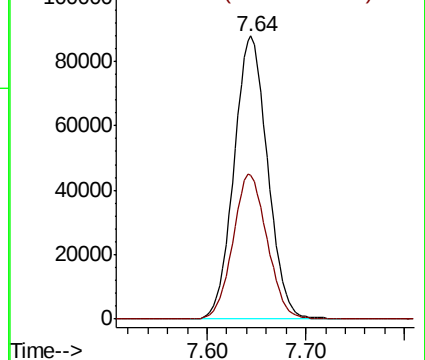
168 100

99 50.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059910.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059910.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059910.D

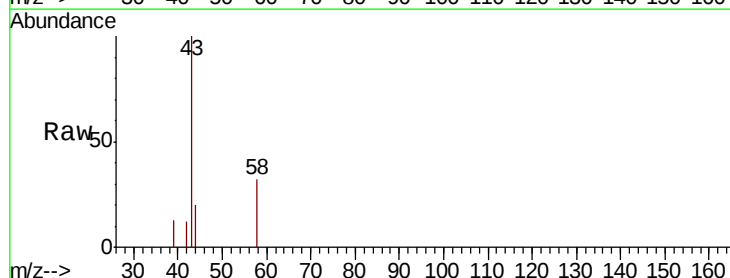
Acq: 29 Jan 2020 14:24

Tgt Ion: 43 Resp: 3595

Ion Ratio Lower Upper

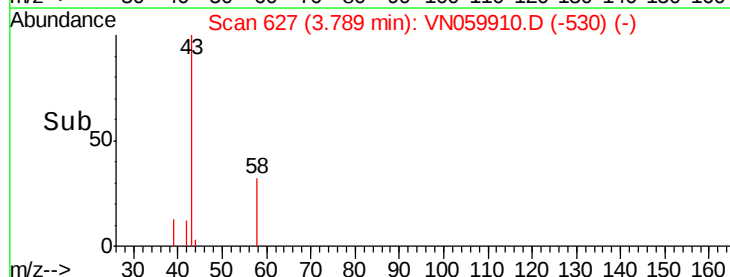
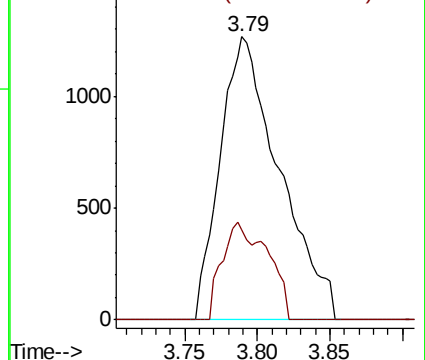
43 100

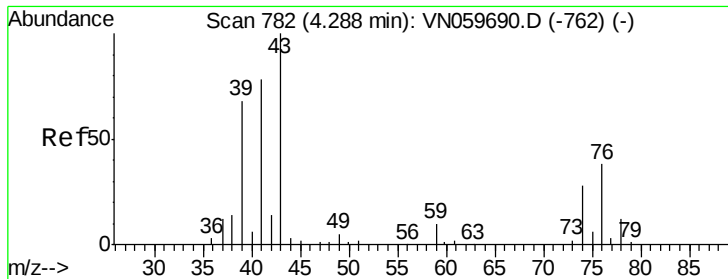
58 32.0 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059910.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059910.D (-530) (-)





#18

Methyl Acetate

Concen: 1.665 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

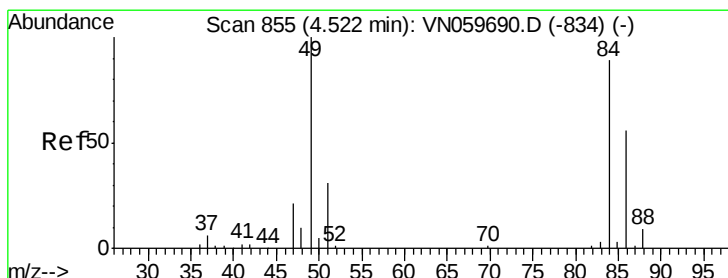
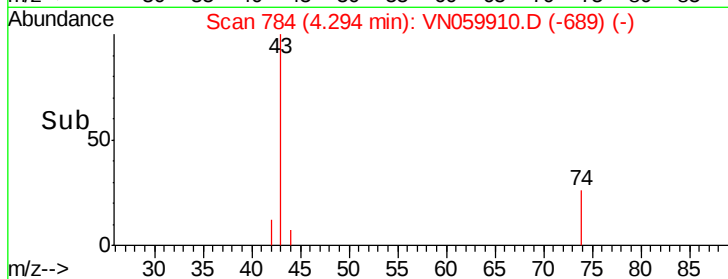
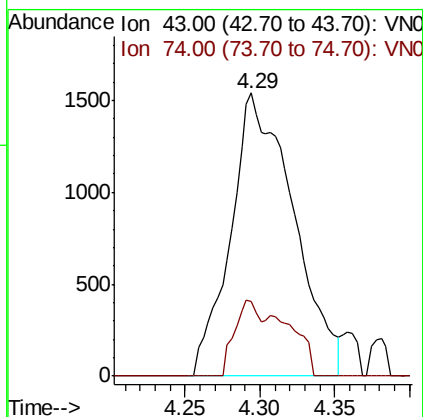
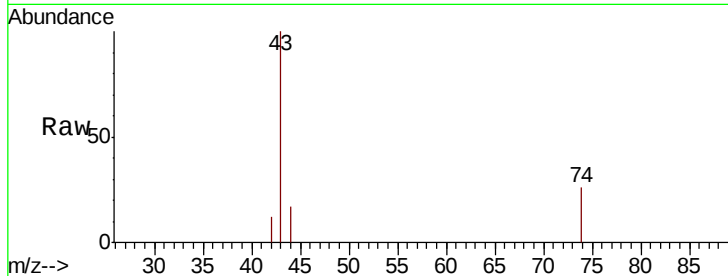
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 4492

Ion Ratio Lower Upper

43 100

74 10.6 17.5 26.3#



#20

Methylene Chloride

Concen: 3.497 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Tgt Ion: 84 Resp: 9822

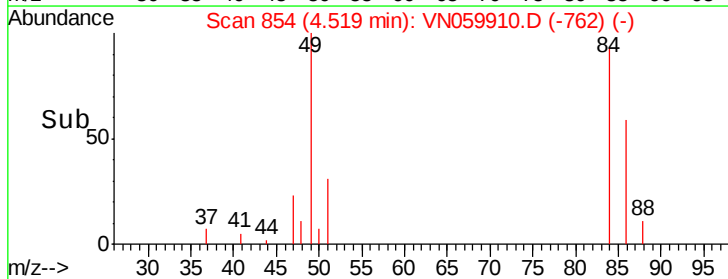
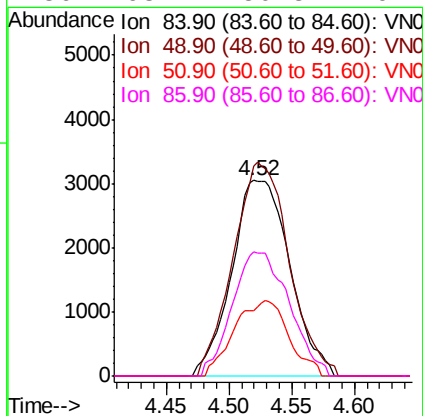
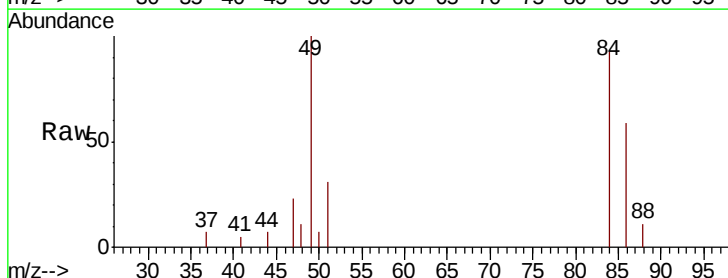
Ion Ratio Lower Upper

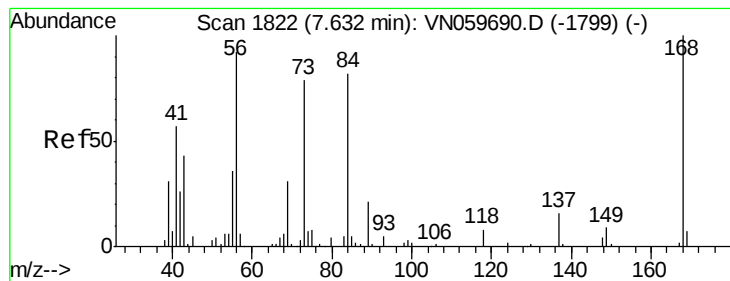
84 100

49 107.0 106.6 160.0

51 33.7 31.9 47.9

86 63.7 50.8 76.2





#31

Cyclohexane

Concen: 1.128 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

ClientSampleId :

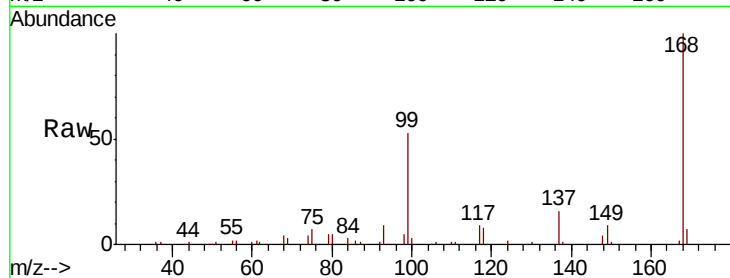
Tot Ion: 56 Resp: 3855

Ion Ratio Lower Upper

56 100

69 156.5 26.5 39.7#

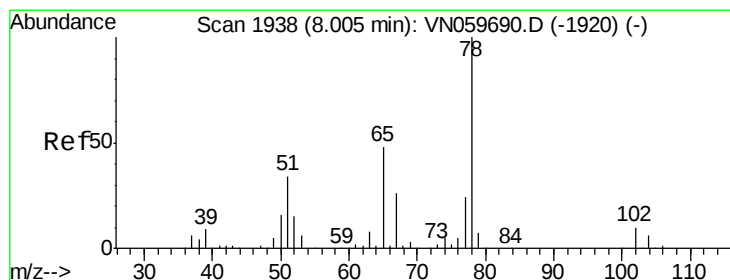
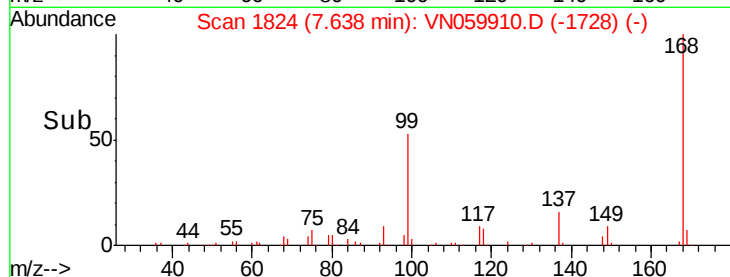
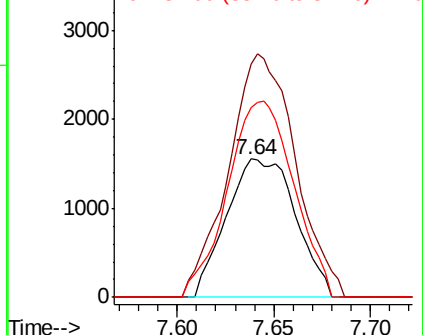
84 137.1 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.389 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059910.D

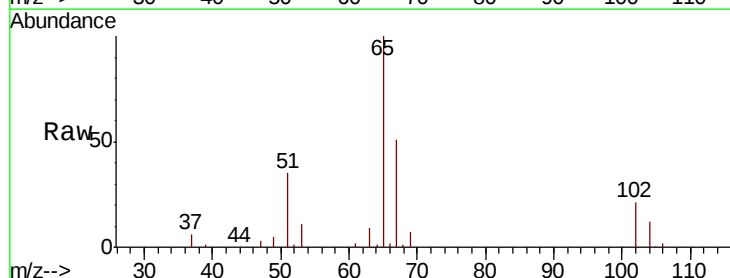
Acq: 29 Jan 2020 14:24

Tgt Ion: 65 Resp: 111751

Ion Ratio Lower Upper

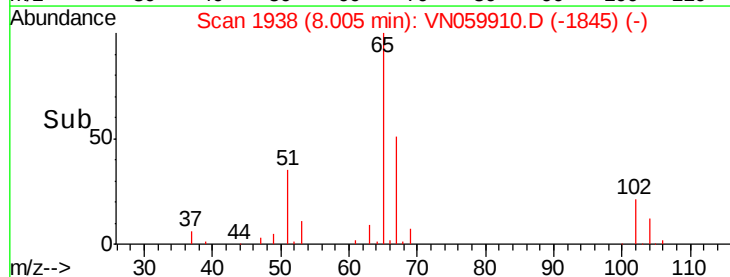
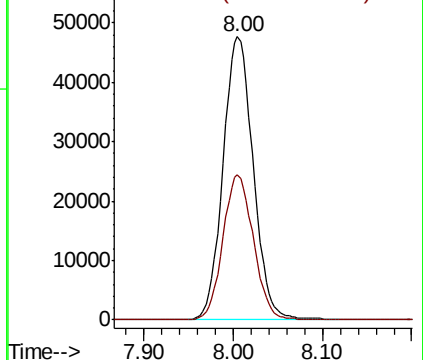
65 100

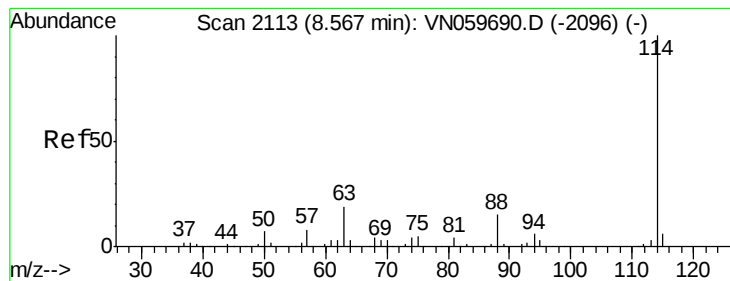
67 51.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

ClientSampleId :

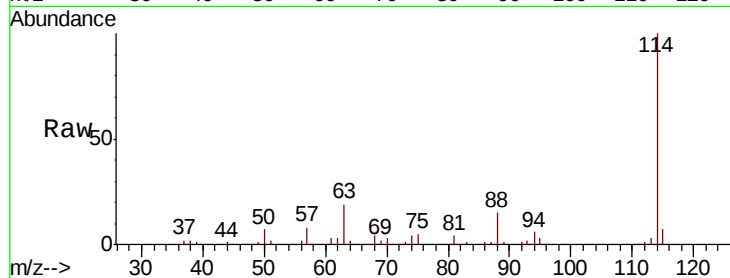
Tot Ion:114 Resp: 316036

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.6

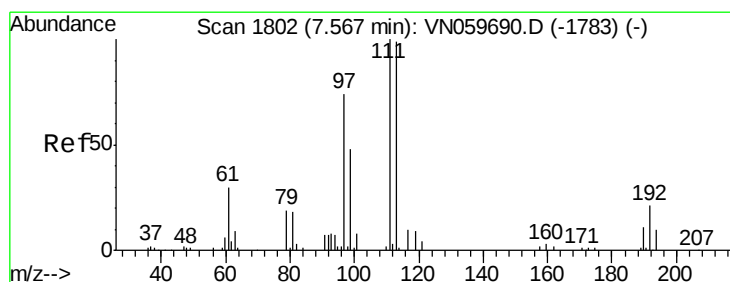
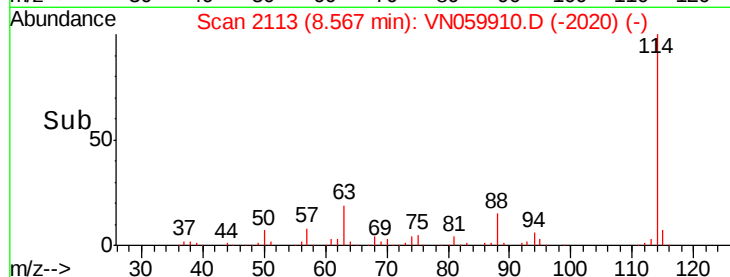
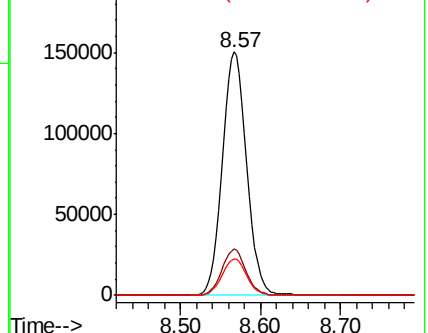
88 14.9 0.0 31.4



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: 50.875 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

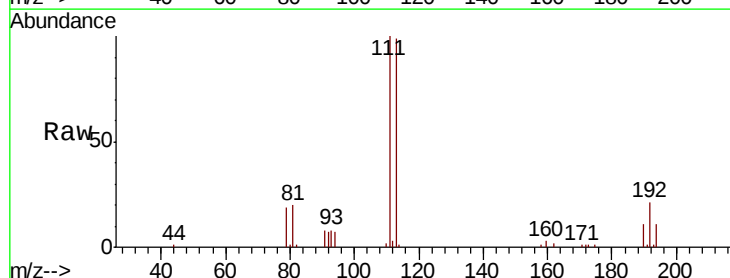
Tgt Ion:113 Resp: 95882

Ion Ratio Lower Upper

113 100

111 101.5 83.5 125.3

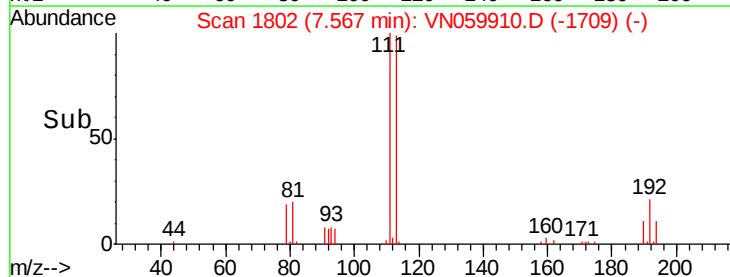
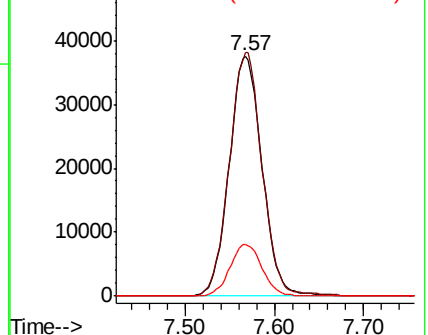
192 20.9 15.4 23.2

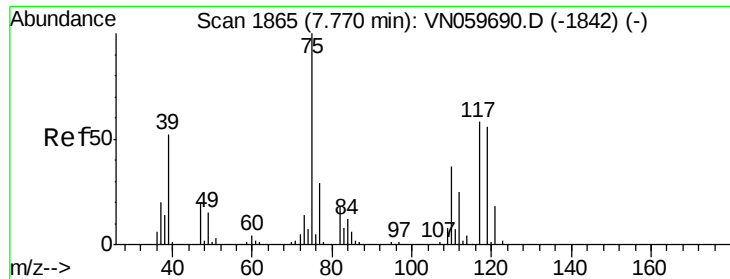


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

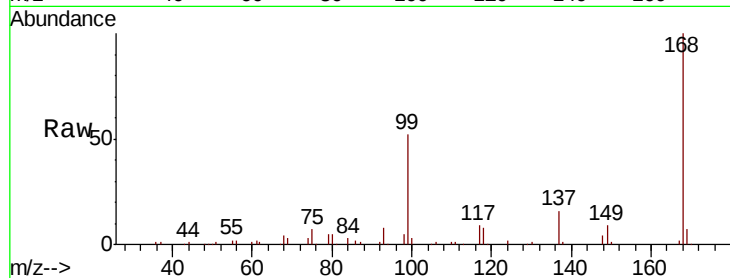




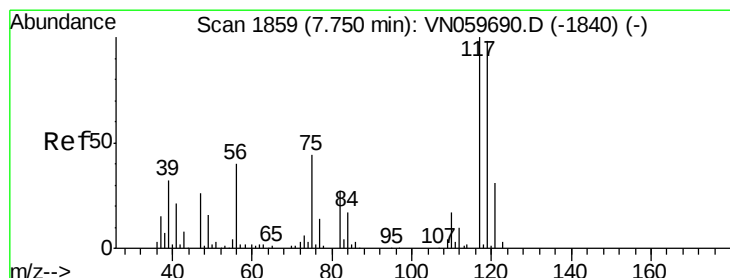
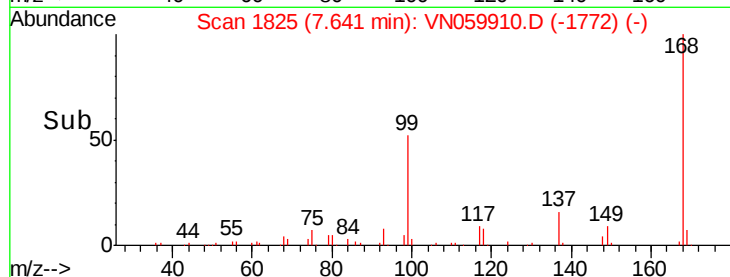
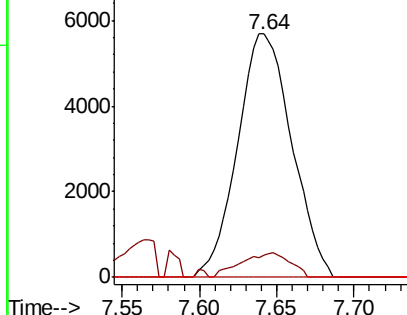
#36
 1,1-Dichloropropene
 Concen: 5.038 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13866
Ion Ratio	Lower	Upper	
75	100		
110	9.1	16.6	49.7#
77	0.0	25.1	37.7#

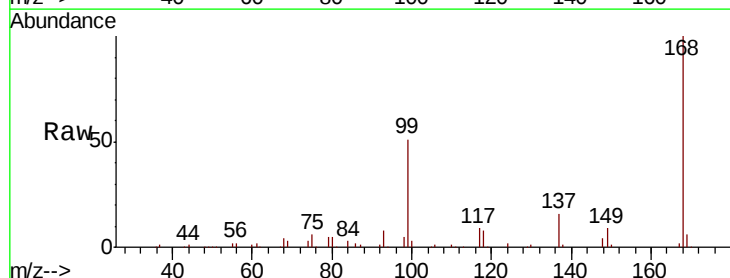


Abundance Ion 74.90 (74.60 to 75.60): VN059910.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059910.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059910.D (-1772) (-)

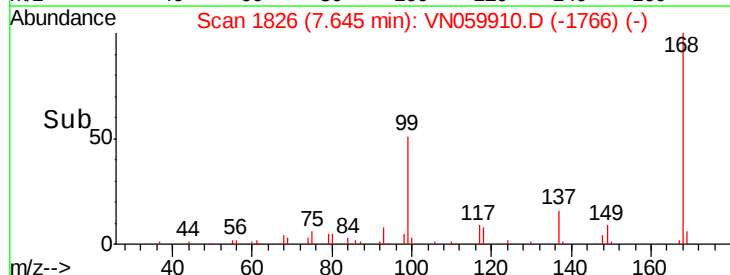
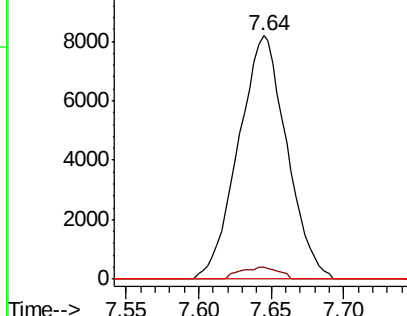


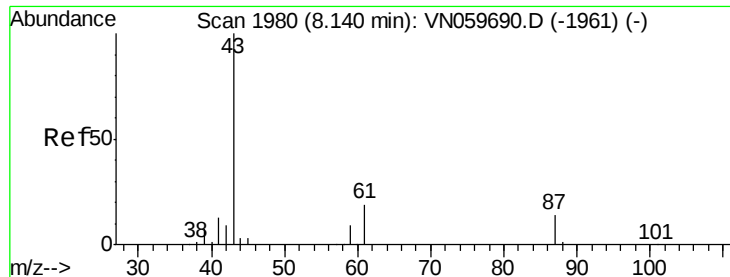
#38
 Carbon Tetrachloride
 Concen: 6.345 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

Tgt Ion	117	Resp	18995
Ion Ratio	Lower	Upper	
117	100		
119	4.9	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059910.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059910.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059910.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 9.380 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

ClientSampled :

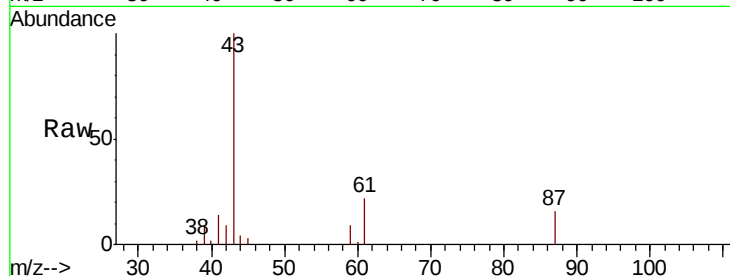
Tot Ion: 43 Resp: 41645

Ion Ratio Lower Upper

43 100

61 21.2 20.2 30.2

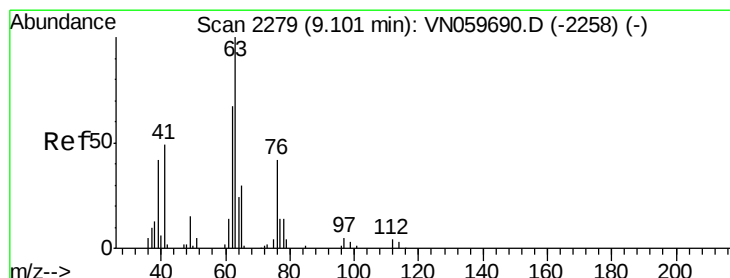
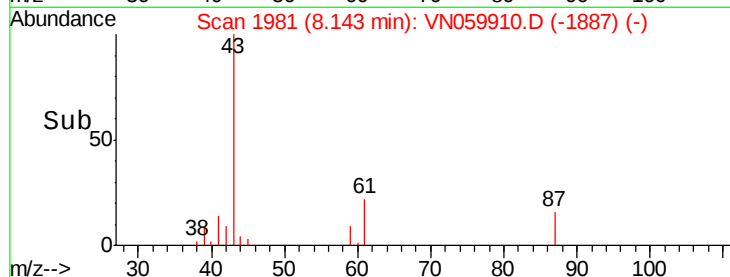
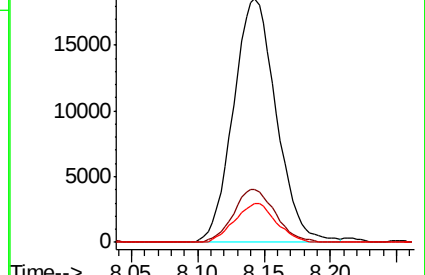
87 15.3 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059910.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN059910.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN059910.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.398 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059910.D

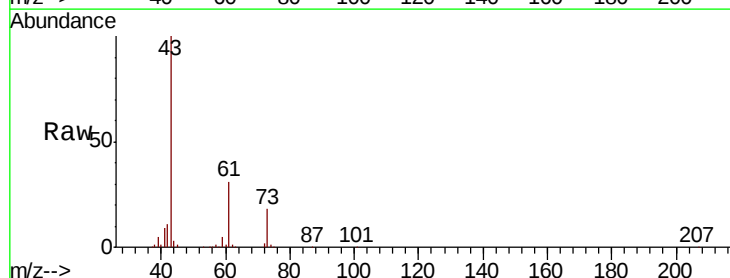
Acq: 29 Jan 2020 14:24

Tgt Ion: 63 Resp: 808

Ion Ratio Lower Upper

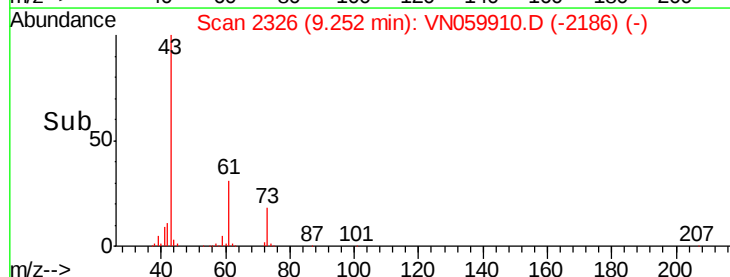
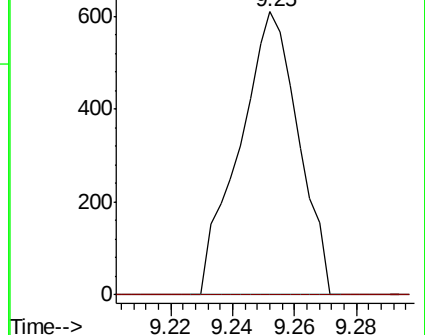
63 100

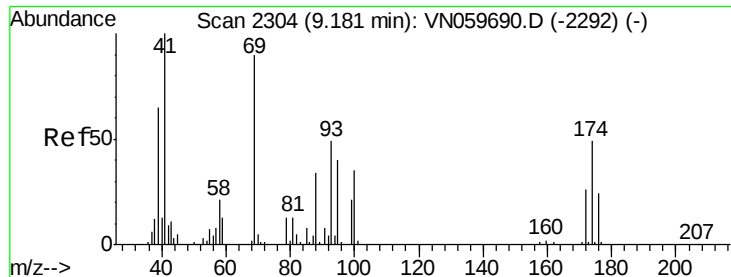
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059910.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059910.D (-2186) (-)

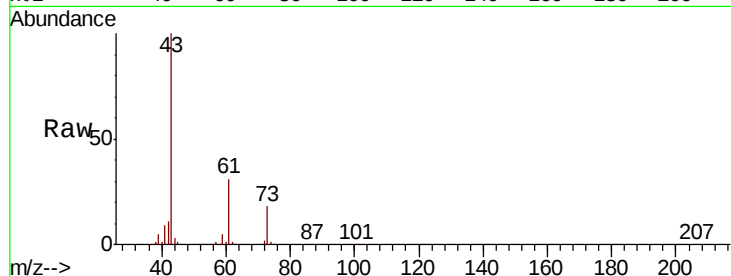




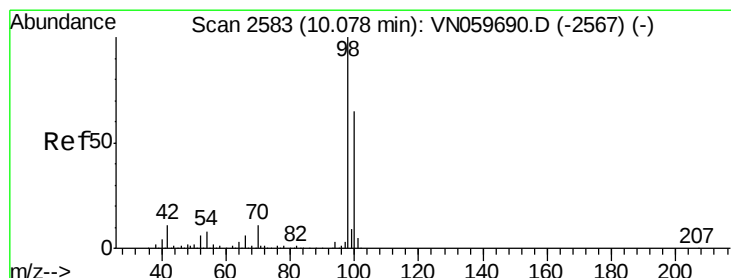
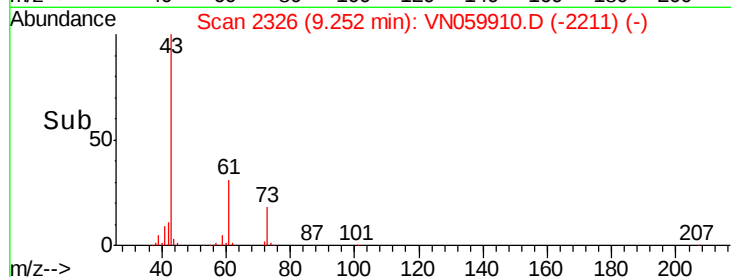
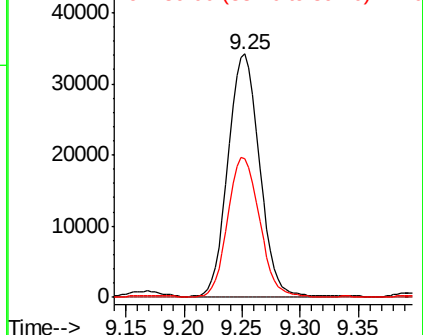
#48
Methvl methacrylate
Concen: 32.676 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.07 min
Lab File: VN059910.D
Acq: 29 Jan 2020 14:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 64893
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 57.7 51.3 76.9

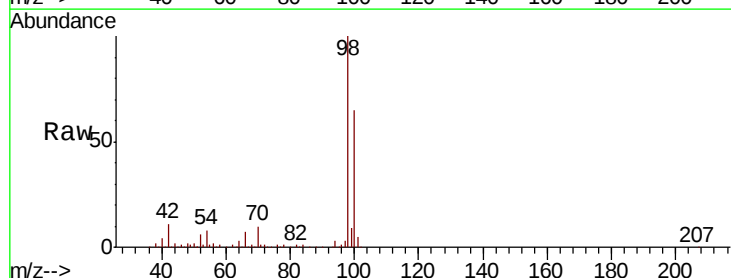


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

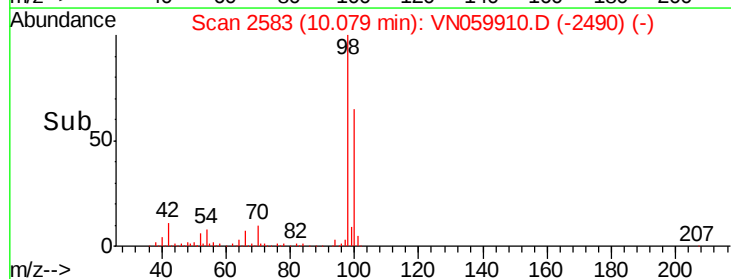
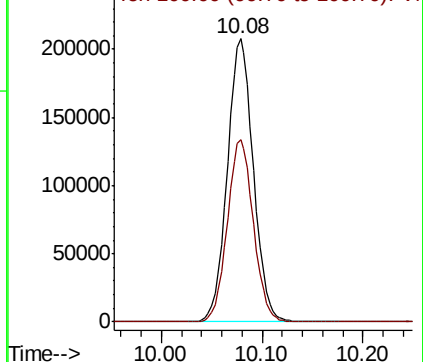


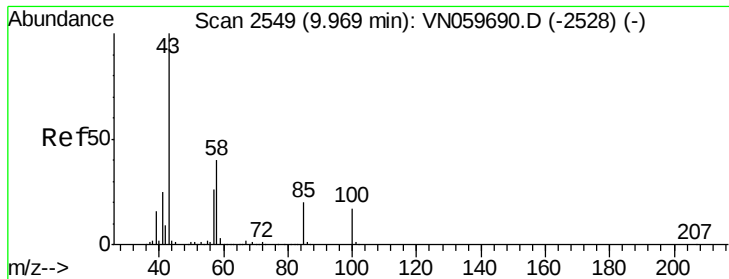
#50
Toluene-d8
Concen: 51.214 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059910.D
Acq: 29 Jan 2020 14:24

Tgt Ion: 98 Resp: 373974
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

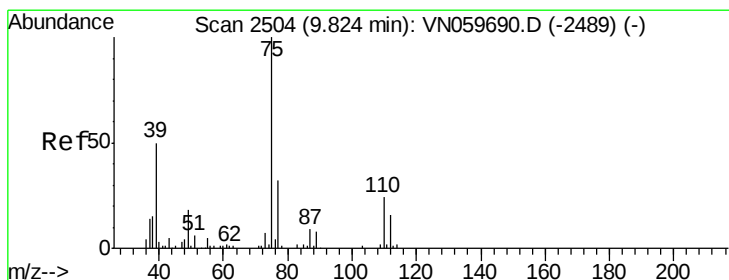
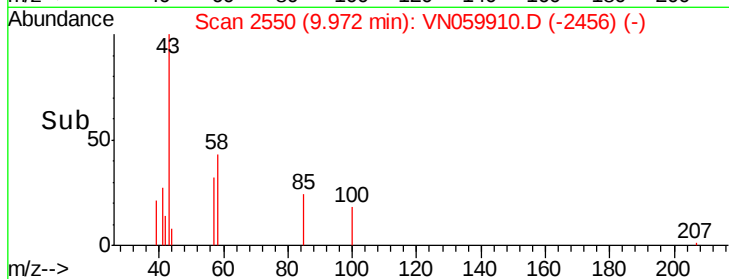
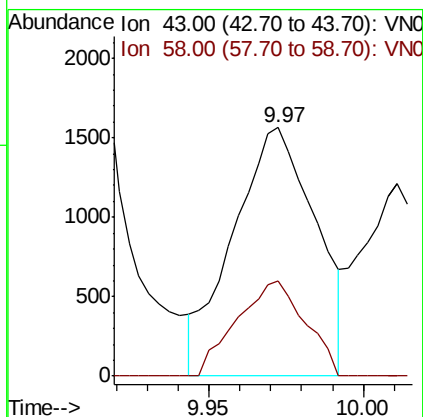
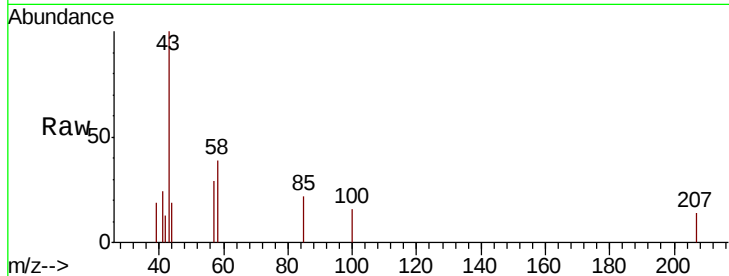




#51
 4-Methyl-2-Pentanone
 Concen: 1.134 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

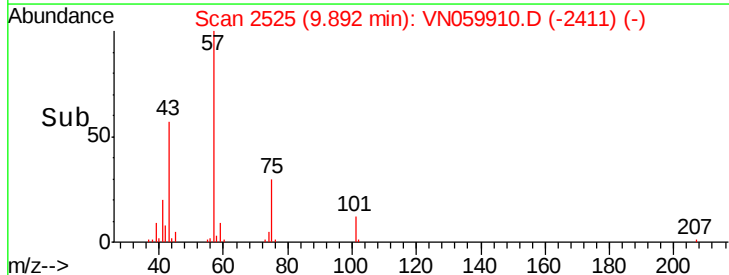
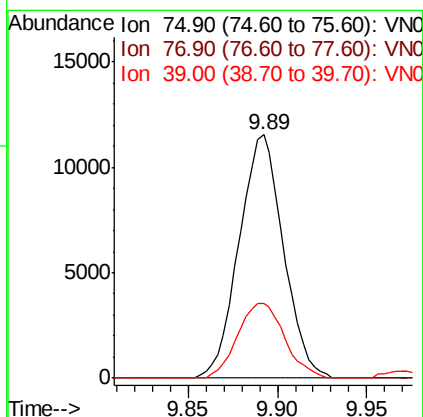
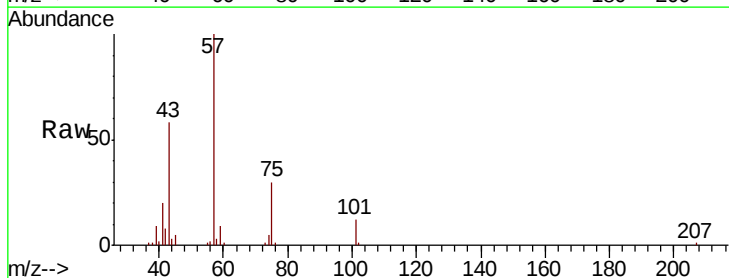
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 2910
 Ion Ratio Lower Upper
 43 100
 58 31.6 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.914 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

Tgt Ion: 75 Resp: 20059
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 30.9 46.1 69.1#

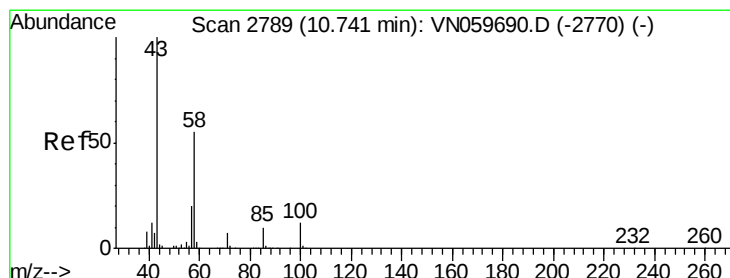
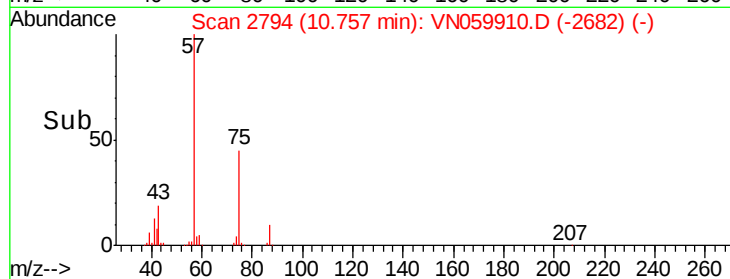
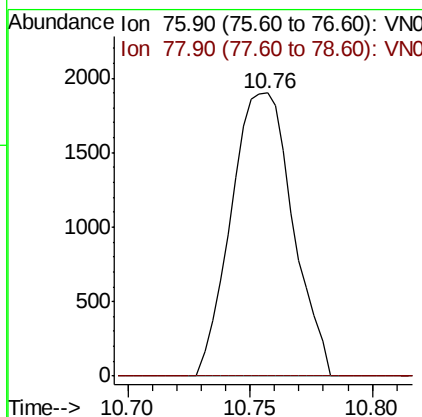
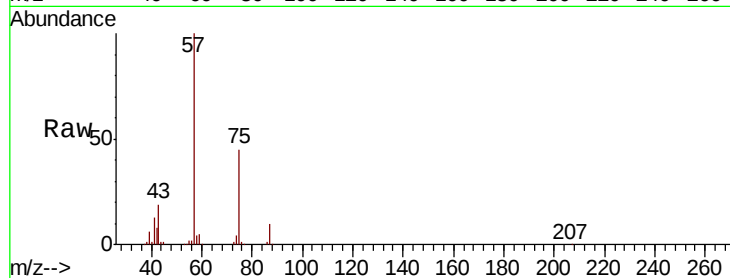




#57
 1,3-Dichloropropane
 Concen: 1.019 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

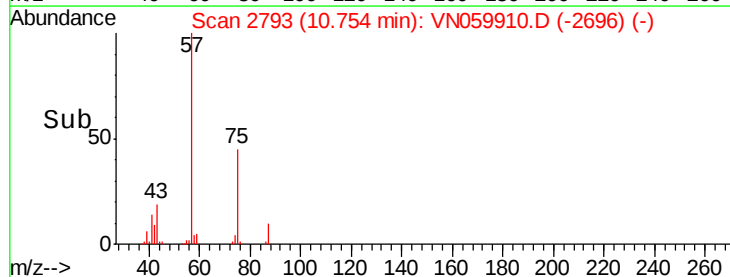
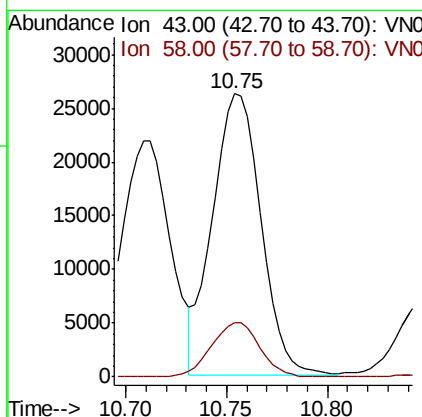
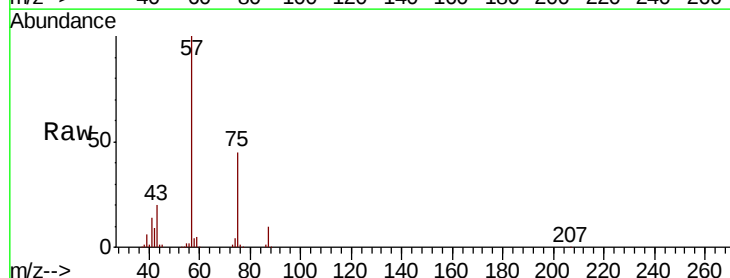
Instrument :
 MSVOA_N
 ClientSampled :

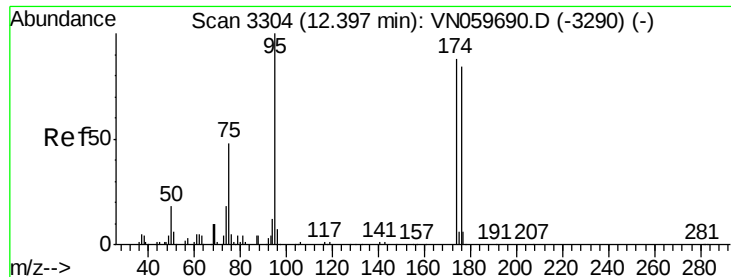
Tot Ion: 76 Resp: 3323
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 23.305 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059910.D
 Acq: 29 Jan 2020 14:24

Tgt Ion: 43 Resp: 44066
 Ion Ratio Lower Upper
 43 100
 58 19.1 25.8 77.3#

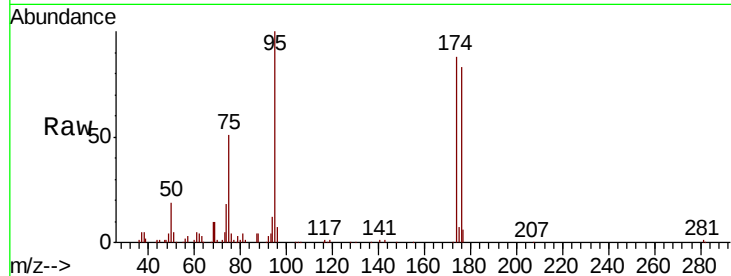




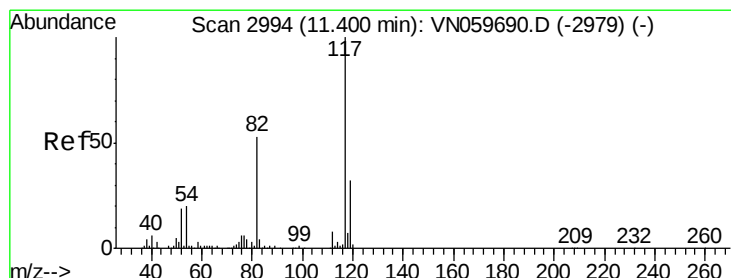
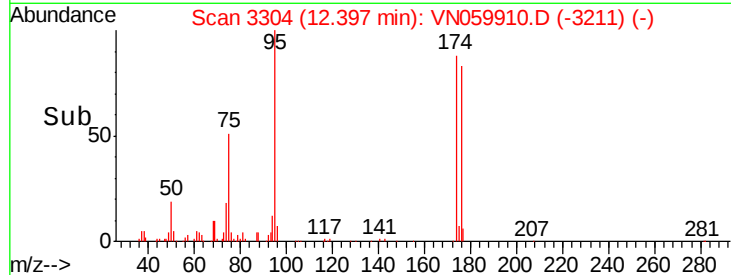
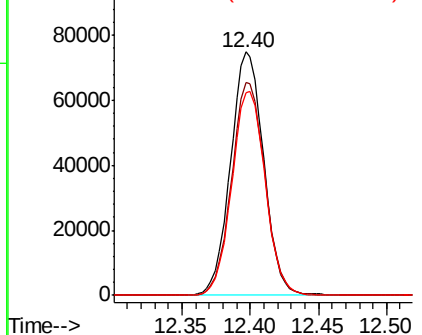
#62
4-Bromofluorobenzene
Concen: 47.931 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059910.D
Acq: 29 Jan 2020 14:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 126174
Ion Ratio Lower Upper
95 100
174 88.1 0.0 151.4
176 84.6 0.0 146.0

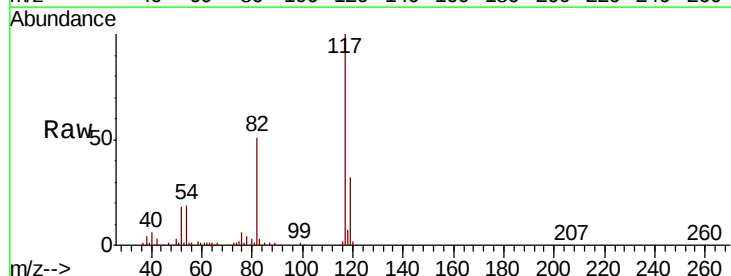


Abundance Ion 94.90 (94.60 to 95.60): VN059910.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059910.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059910.D (-3290) (-)

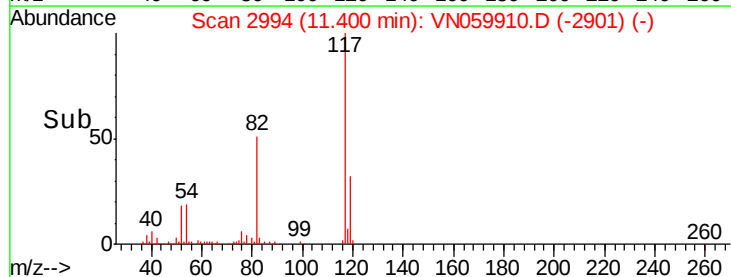
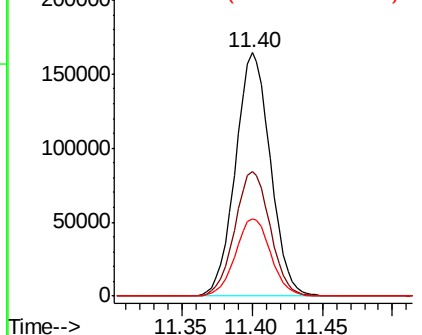


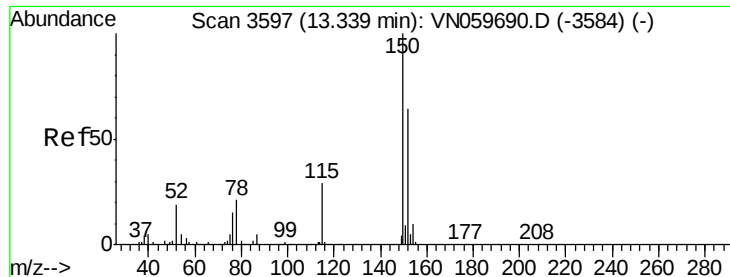
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059910.D
Acq: 29 Jan 2020 14:24

Tgt Ion: 117 Resp: 285694
Ion Ratio Lower Upper
117 100
82 51.4 45.9 68.9
119 32.0 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN059910.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059910.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059910.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

ClientSampleId :

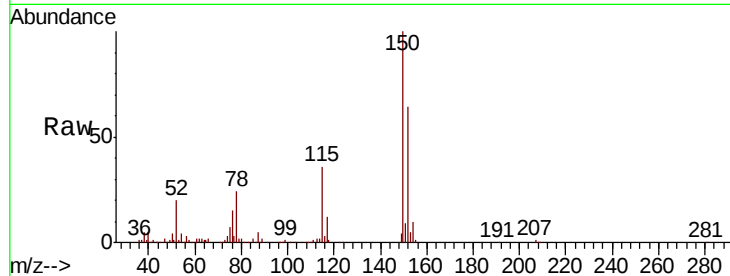
Tot Ion:152 Resp: 118407

Ion Ratio Lower Upper

152 100

115 57.2 30.3 90.9

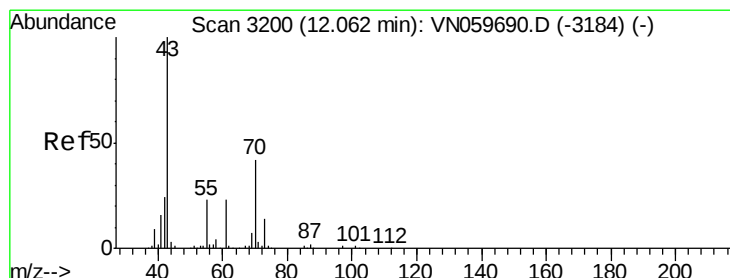
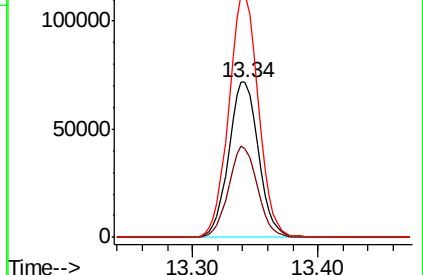
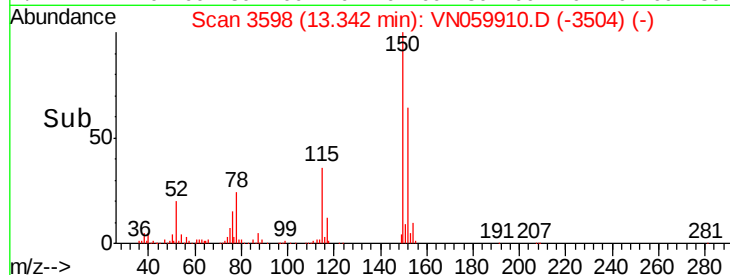
150 155.5 0.0 345.2



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-ethyl acetate

Concen: 0.252 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Tgt Ion: 43 Resp: 848

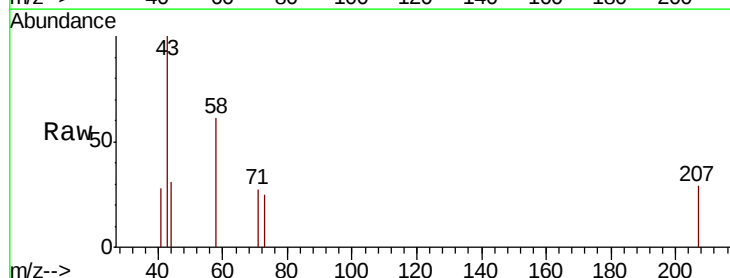
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

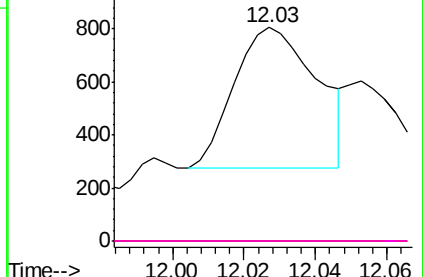
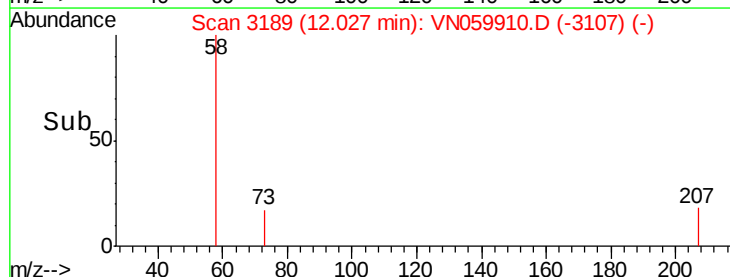


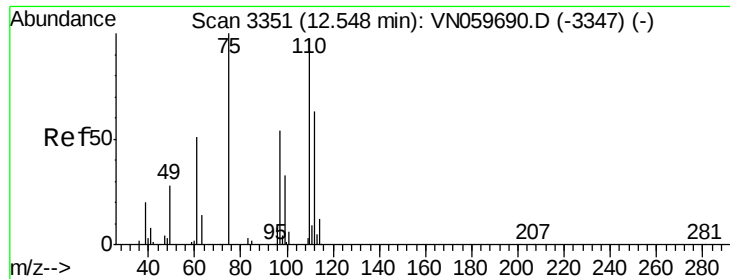
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.657 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

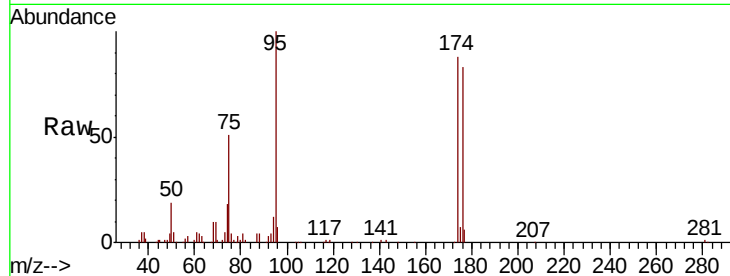
ClientSampleId :

Tot Ion: 75 Resp: 63081

Ion Ratio Lower Upper

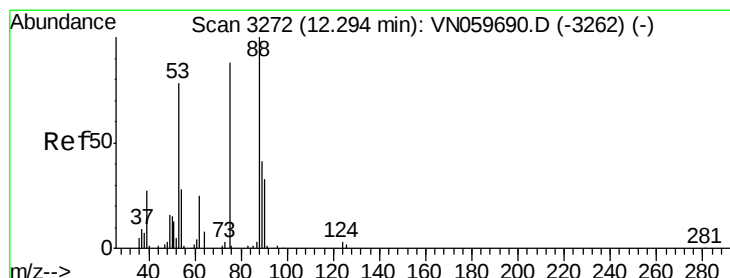
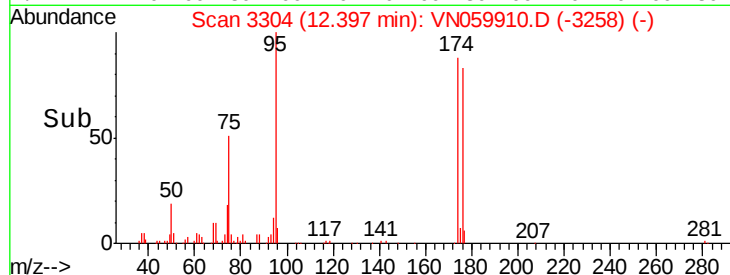
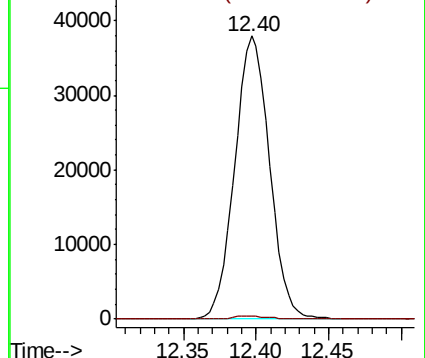
75 100

77 1.0 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: 67.982 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

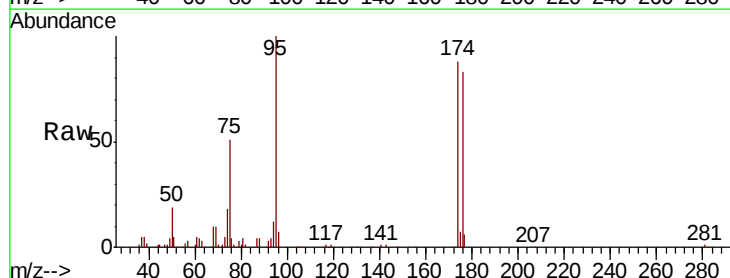
Tgt Ion: 75 Resp: 63081

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

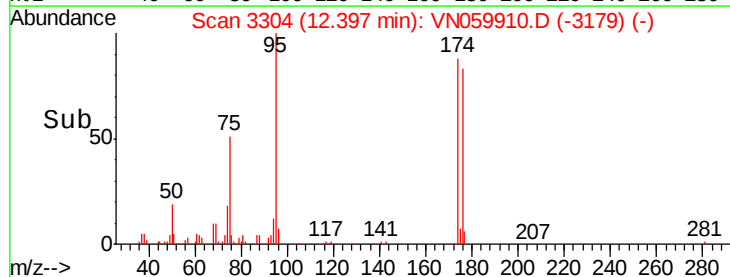
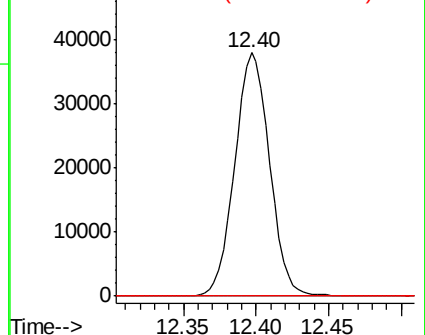
89 0.0 35.4 53.2#

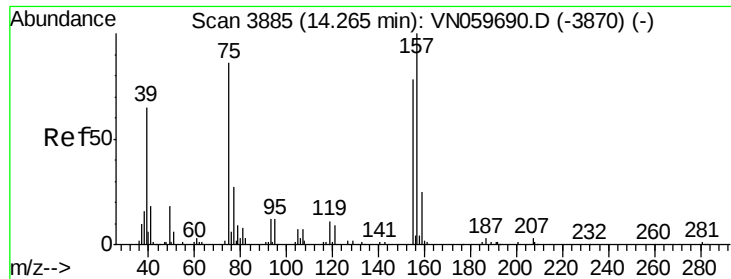


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 14.29 min Scan# 3892

Delta R.T. 0.02 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

Instrument :

MSVOA_N

ClientSampleId :

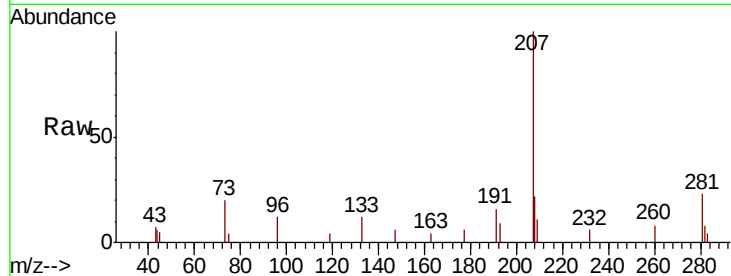
Tot Ion: 75 Resp: 32

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

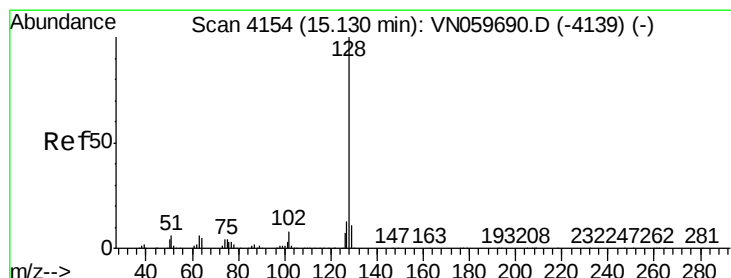
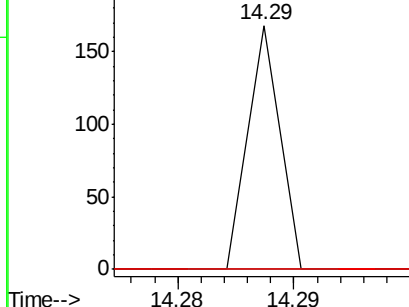
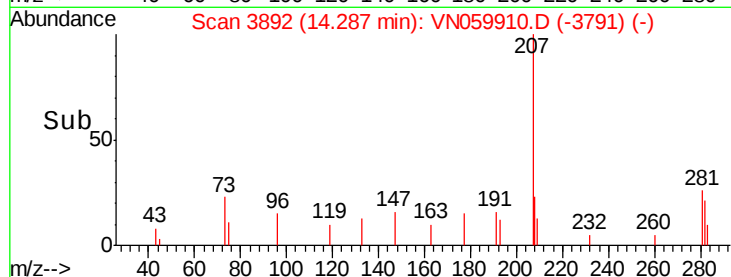
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059910.D (-3870) (-)

Ion 154.80 (154.50 to 155.50): VN059910.D (-3870) (-)

Ion 156.80 (156.50 to 157.50): VN059910.D (-3870) (-)



#95

Naphthalene

Concen: 0.516 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN059910.D

Acq: 29 Jan 2020 14:24

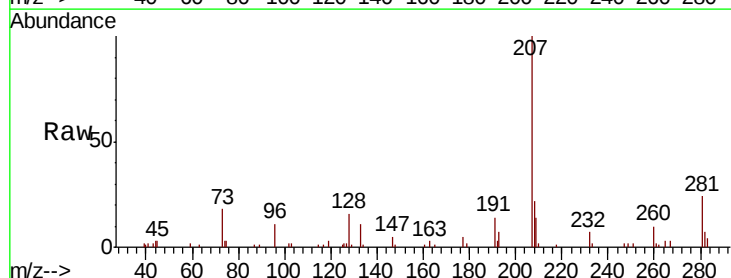
Tgt Ion: 128 Resp: 3331

Ion Ratio Lower Upper

128 100

127 10.1 10.4 15.6#

129 7.4 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN059910.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN059910.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN059910.D (-4139) (-)

