

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN013020\
 Data File : VN059931.D
 Acq On : 30 Jan 2020 16:08
 Operator : JC/MD
 Sample : L1014-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 16:55:41 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	195715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	297198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	275947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	123891	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	106863	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
35) Dibromofluoromethane	7.57	113	89985	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.08	98	357314	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
62) 4-Bromofluorobenzene	12.40	95	124496	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	

Target Compounds

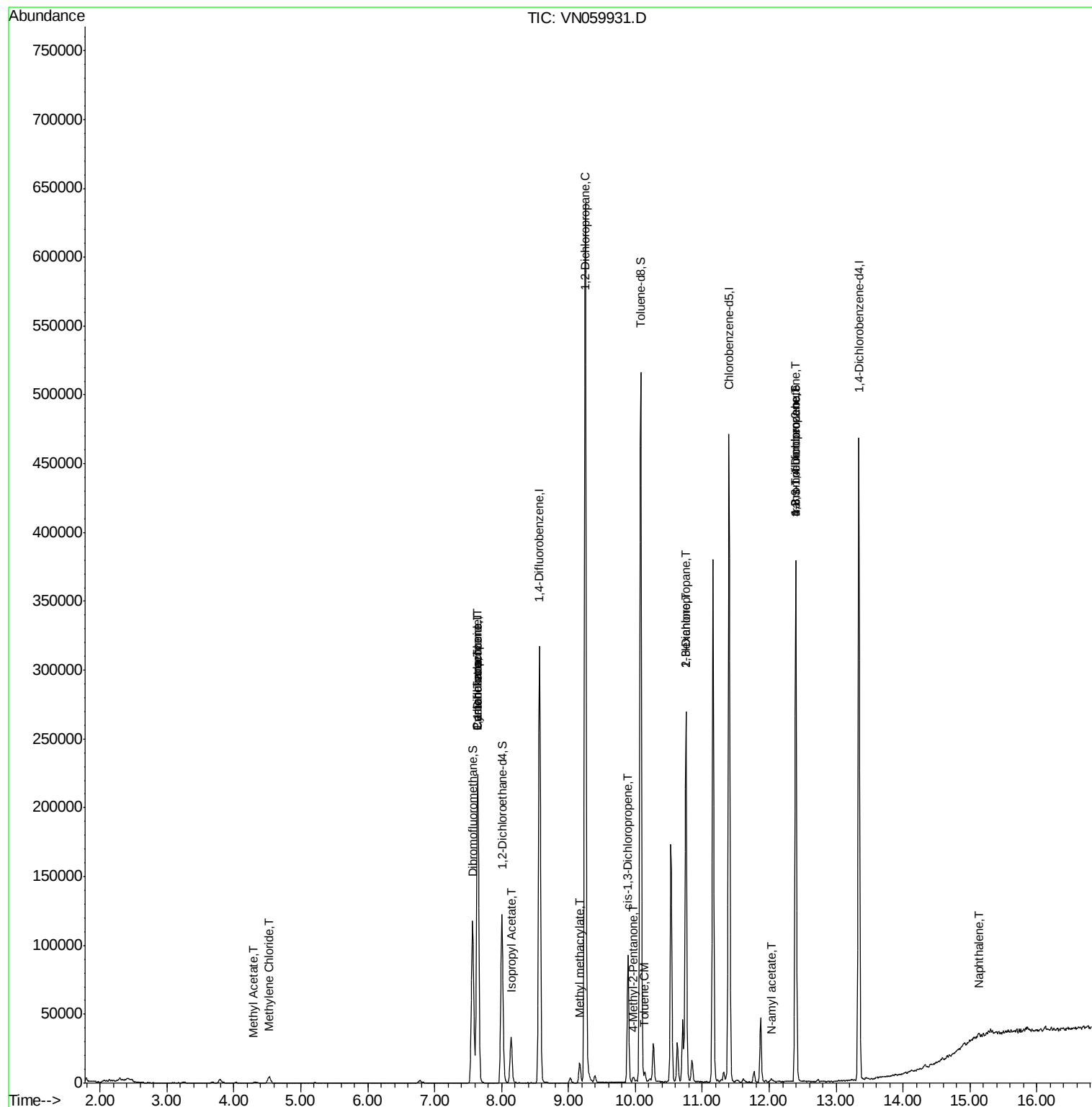
					Qvalue	
16) Acetone	3.79	43	4915	Below Cal		99
18) Methyl Acetate	4.29	43	572	0.225 ug/l #		54
20) Methylene Chloride	4.53	84	3823	0.667 ug/l		88
31) Cyclohexane	7.64	56	3688	1.147 ug/l #		1
36) 1,1-Dichloropropene	7.64	75	13102	5.062 ug/l #		50
38) Carbon Tetrachloride	7.64	117	18216	6.470 ug/l #		16
43) Isopropyl Acetate	8.14	43	38547	9.232 ug/l		91
45) 1,2-Dichloropropane	9.25	63	708	0.371 ug/l #		44
48) Methyl methacrylate	9.16	41	2112	1.131 ug/l #		13
51) 4-Methyl-2-Pentanone	9.97	43	2195	0.909 ug/l		92
52) Toluene	10.14	92	3383	0.694 ug/l		93
54) cis-1,3-Dichloropropene	9.89	75	17362	5.443 ug/l #		60
57) 1,3-Dichloropropane	10.75	76	2812	0.917 ug/l #		42
59) 2-Hexanone	10.75	43	37069	20.848 ug/l #		57
74) N-amyl acetate	12.02	43	1893	0.537 ug/l #		45
76) 1,2,3-Trichloropropane	12.40	75	63287	30.354 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	63287	65.185 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	14.32	75	60	Below Cal #		6
95) Naphthalene	15.13	128	2329	0.345 ug/l #		83

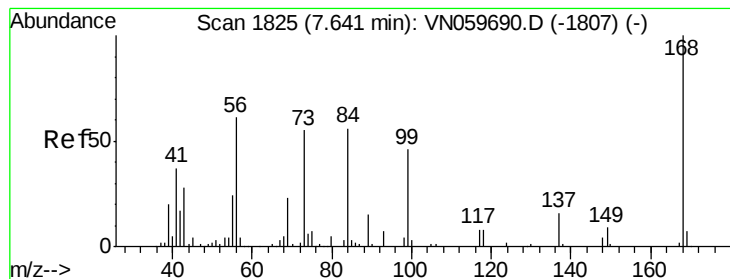
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

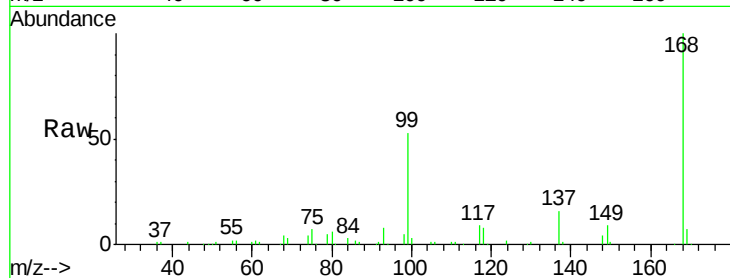
ClientSampled :

Tot Ion:168 Resp: 195715

Ion Ratio Lower Upper

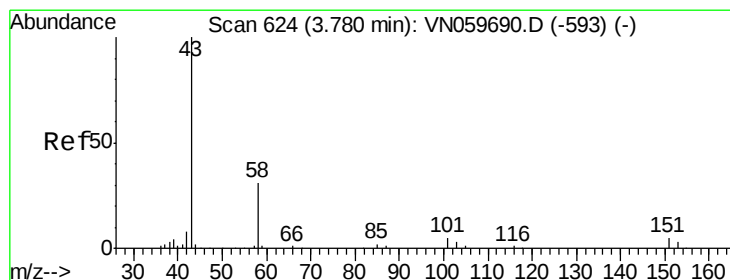
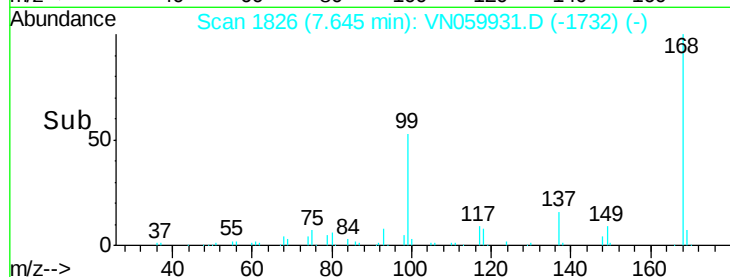
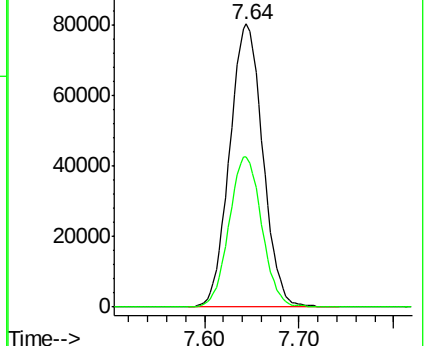
168 100

99 53.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059931.D

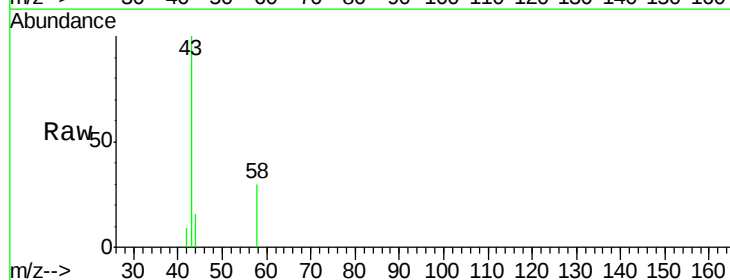
Acq: 30 Jan 2020 16:08

Tgt Ion: 43 Resp: 4915

Ion Ratio Lower Upper

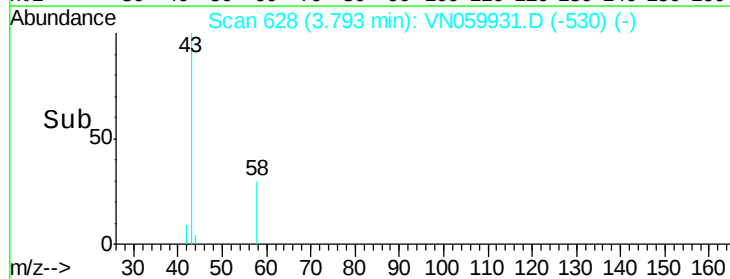
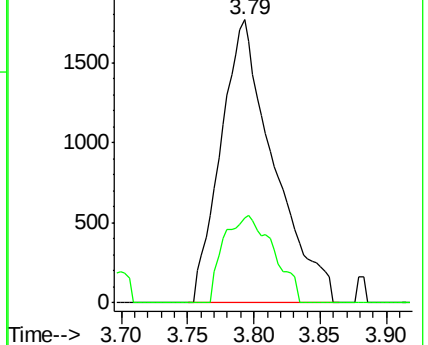
43 100

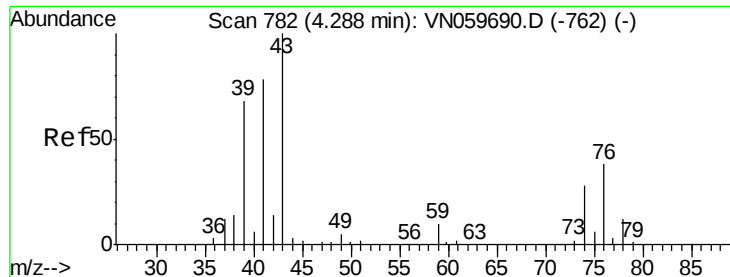
58 30.1 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

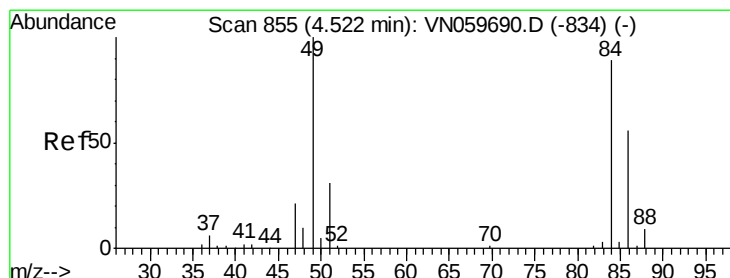
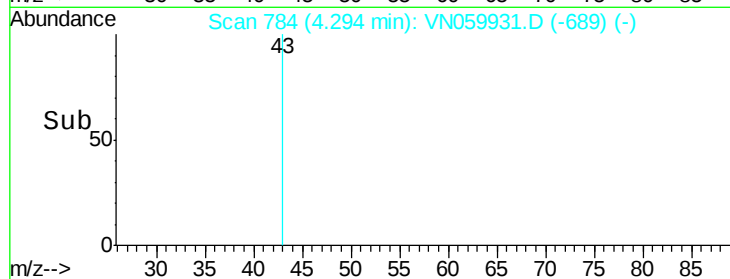
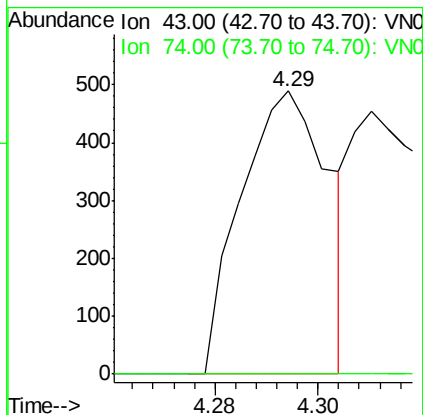
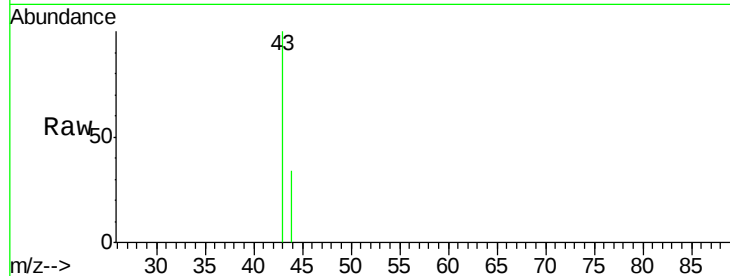




#18
Methyl Acetate
Concen: 0.225 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

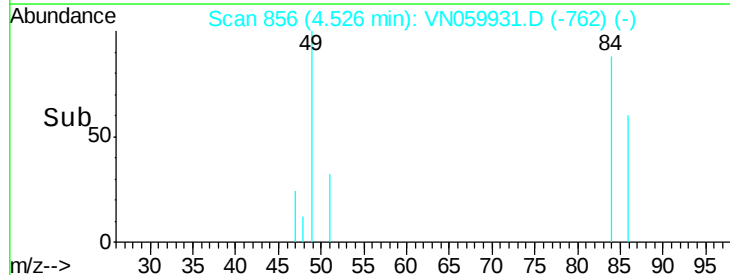
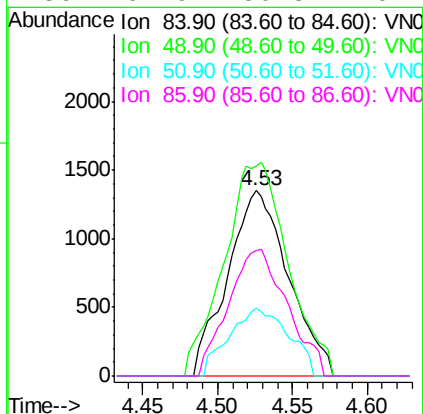
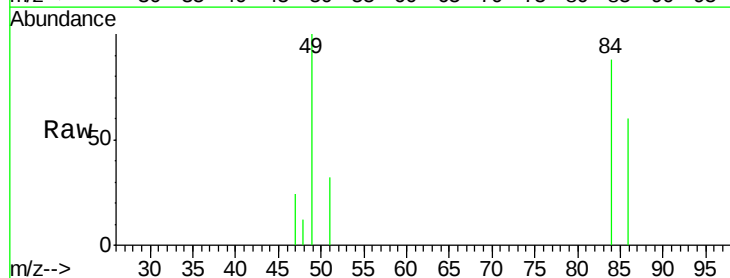
Instrument :
MSVOA_N
ClientSampled :

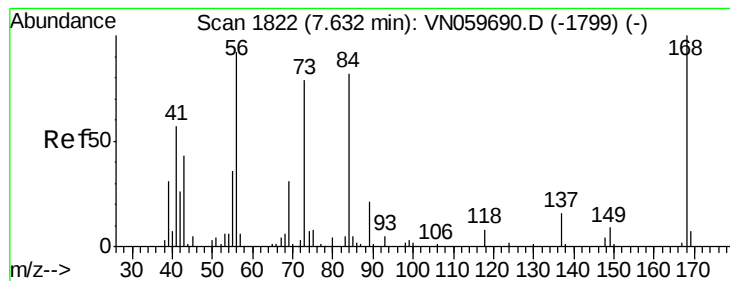
Tot Ion: 43 Resp: 572
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.667 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Tgt Ion: 84 Resp: 3823
Ion Ratio Lower Upper
84 100
49 113.6 106.6 160.0
51 36.3 31.9 47.9
86 67.9 50.8 76.2





#31

Cyclohexane

Concen: 1.147 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

ClientSampled :

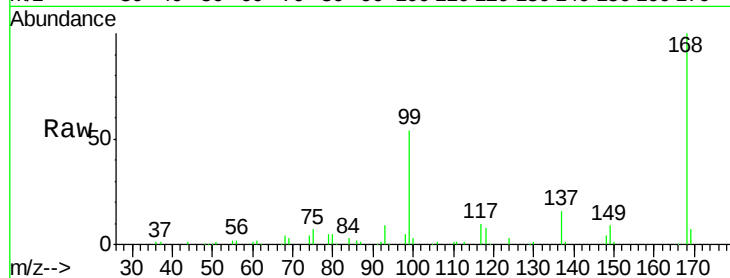
Tot Ion: 56 Resp: 3688

Ion Ratio Lower Upper

56 100

69 159.3 26.5 39.7#

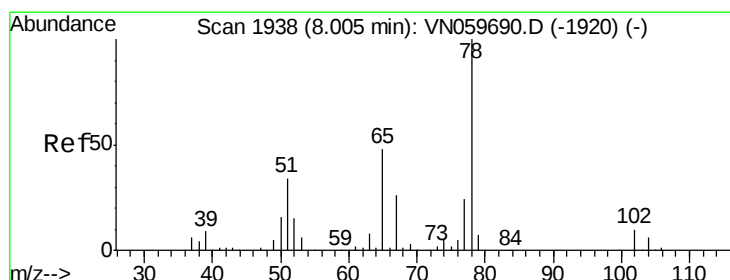
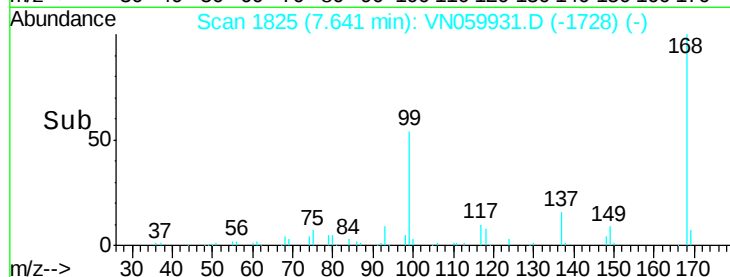
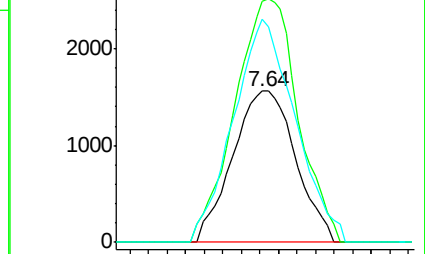
84 147.1 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059931.D (-1728) (-)

Ion 69.00 (68.70 to 69.70): VN059931.D (-1728) (-)

Ion 84.00 (83.70 to 84.70): VN059931.D (-1728) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.167 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059931.D

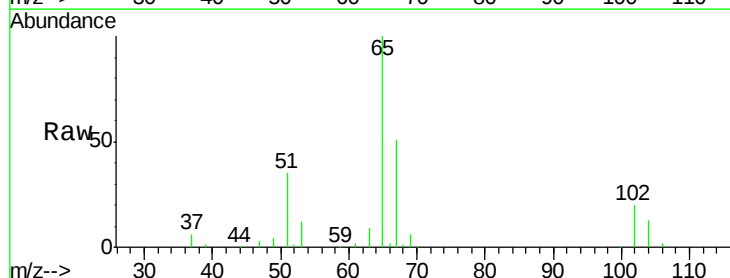
Acq: 30 Jan 2020 16:08

Tgt Ion: 65 Resp: 106863

Ion Ratio Lower Upper

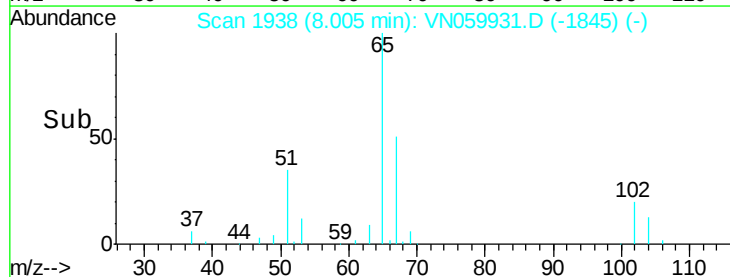
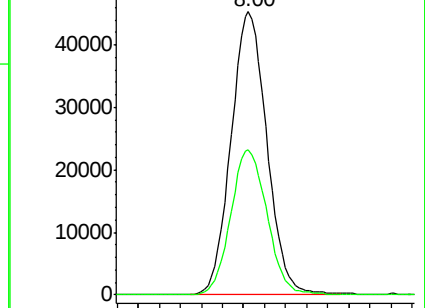
65 100

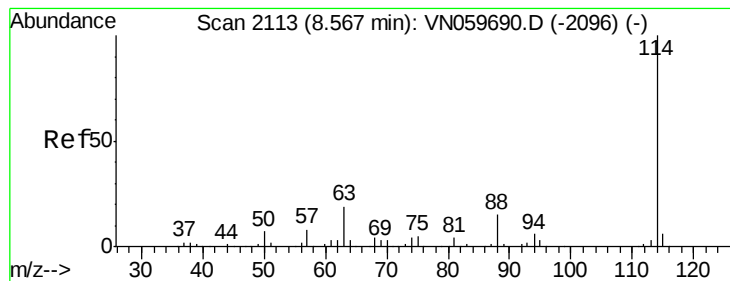
67 52.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059931.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059931.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

ClientSampleId :

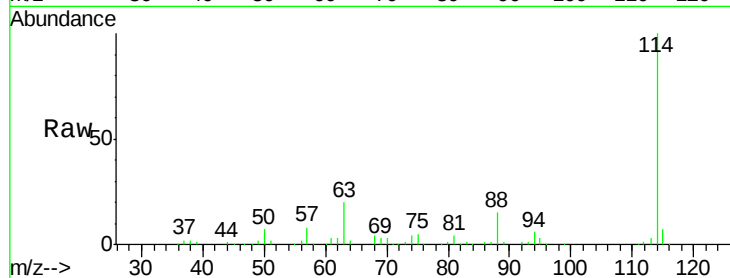
Tot Ion:114 Resp: 297198

Ion Ratio Lower Upper

114 100

63 19.5 0.0 43.6

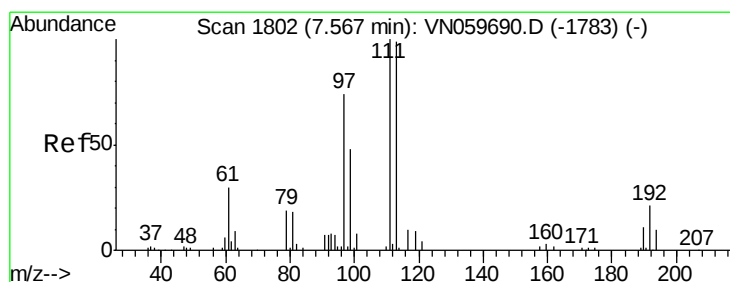
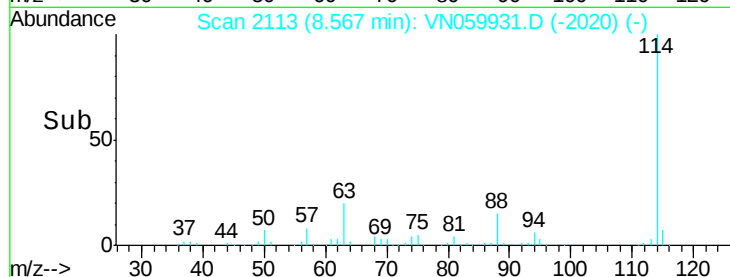
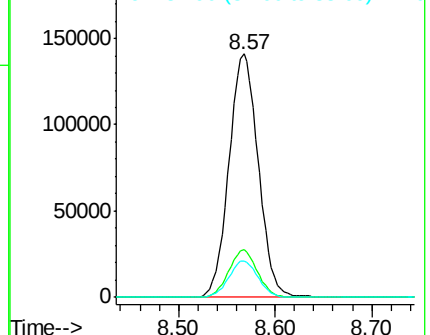
88 14.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.772 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

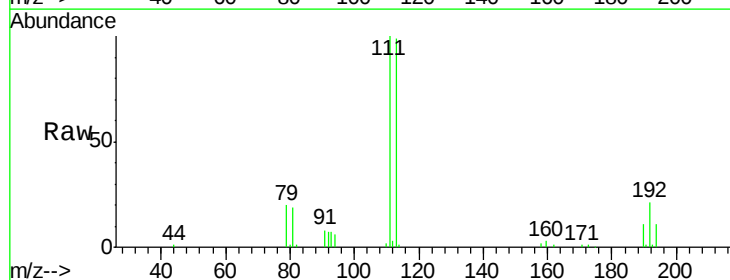
Tgt Ion:113 Resp: 89985

Ion Ratio Lower Upper

113 100

111 102.3 83.5 125.3

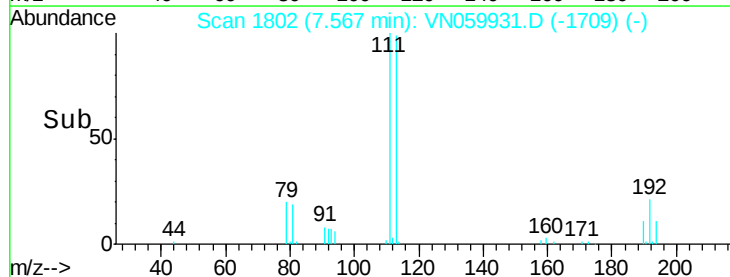
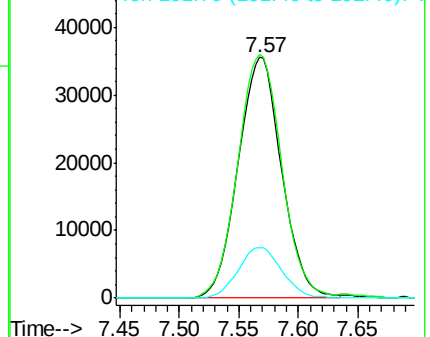
192 21.2 15.4 23.2

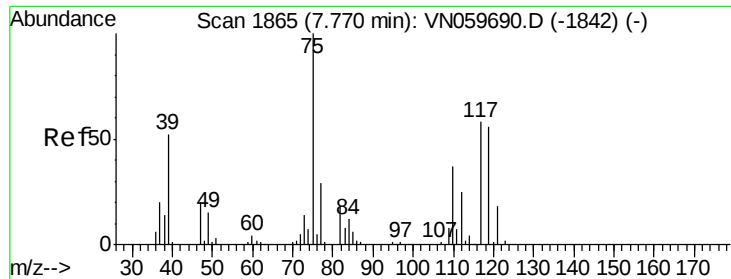


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

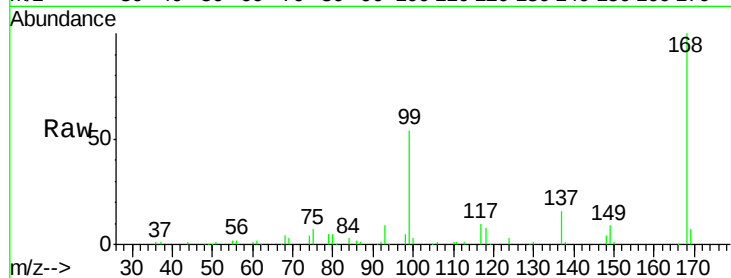




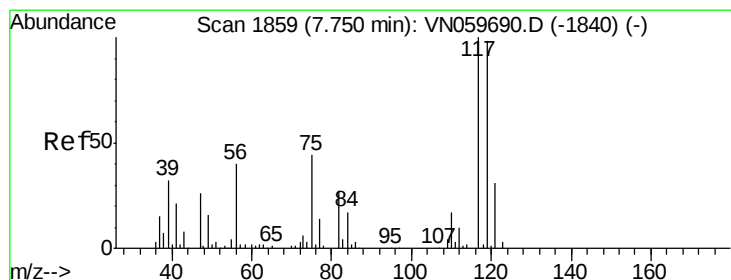
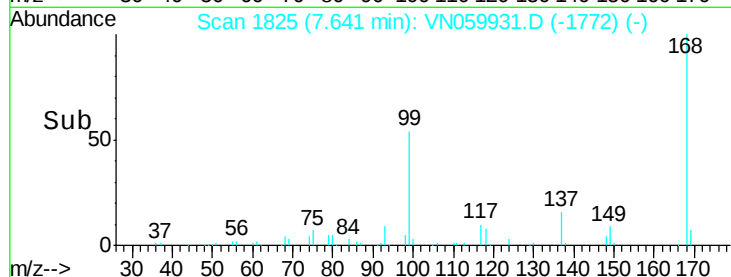
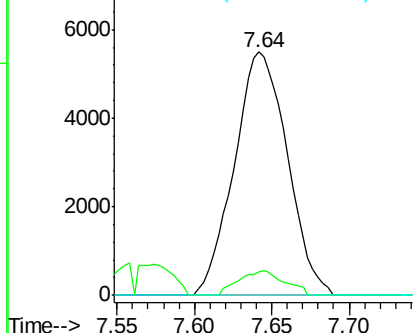
#36
 1,1-Dichloropropene
 Concen: 5.062 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 13102
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.6 49.7#
 77 0.0 25.1 37.7#

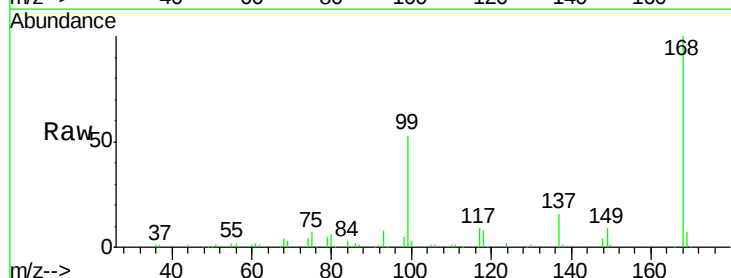


Abundance Ion 74.90 (74.60 to 75.60): VN059931.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059931.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059931.D (-1772) (-)

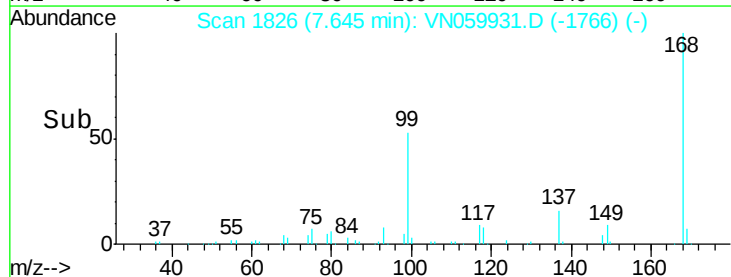
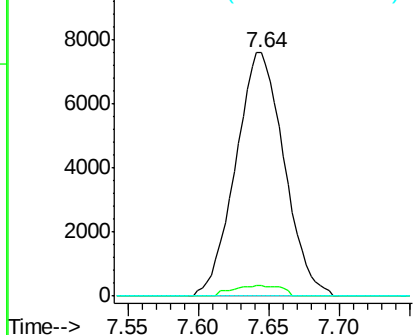


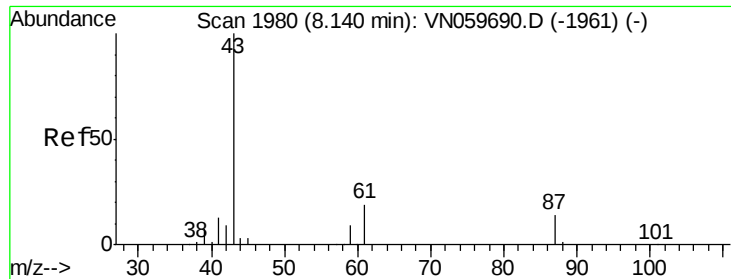
#38
 Carbon Tetrachloride
 Concen: 6.470 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

Tgt Ion: 117 Resp: 18216
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.5 114.7#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059931.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059931.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059931.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 9.232 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

ClientSampled :

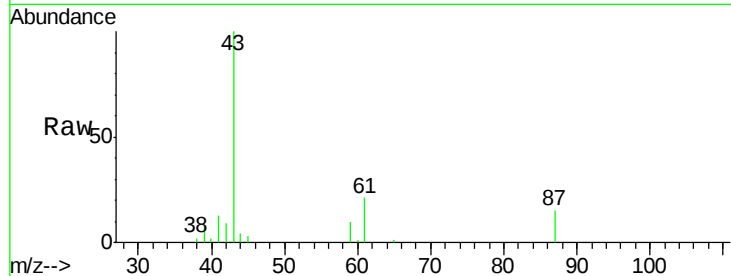
Tot Ion: 43 Resp: 38547

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

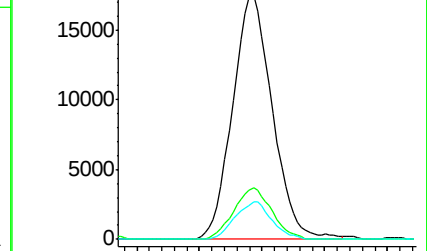
87 14.2 9.5 14.3



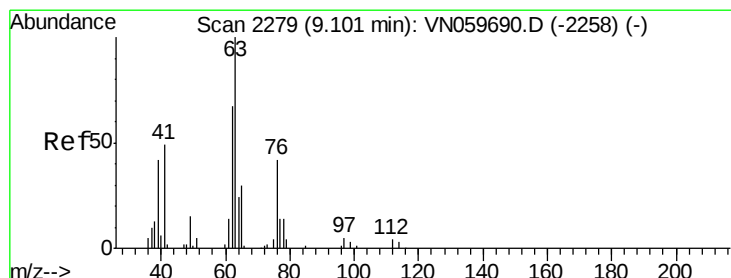
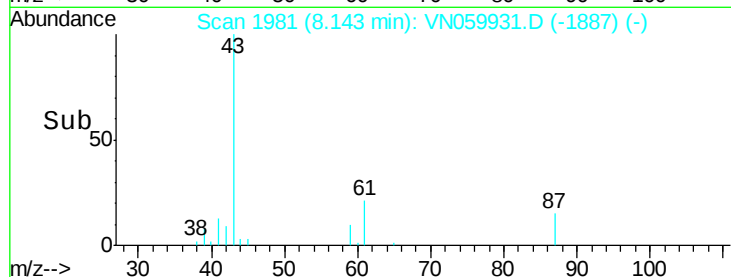
Abundance Ion 43.00 (42.70 to 43.70): VN059931.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN059931.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN059931.D (-1987) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.371 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059931.D

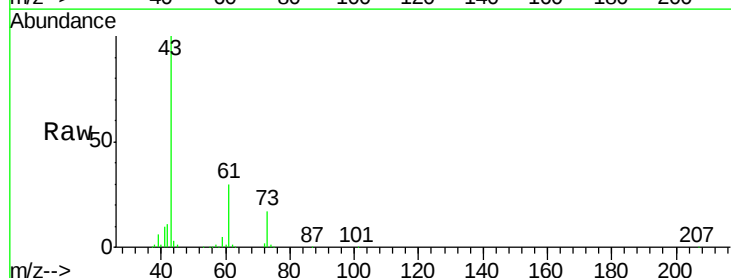
Acq: 30 Jan 2020 16:08

Tgt Ion: 63 Resp: 708

Ion Ratio Lower Upper

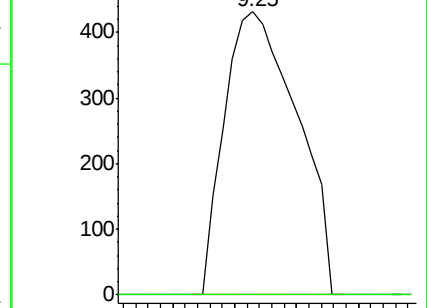
63 100

65 0.0 24.9 37.3#

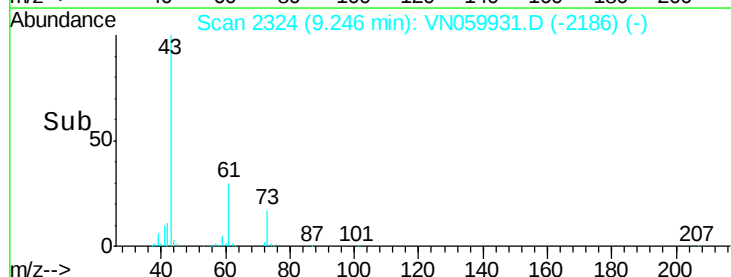


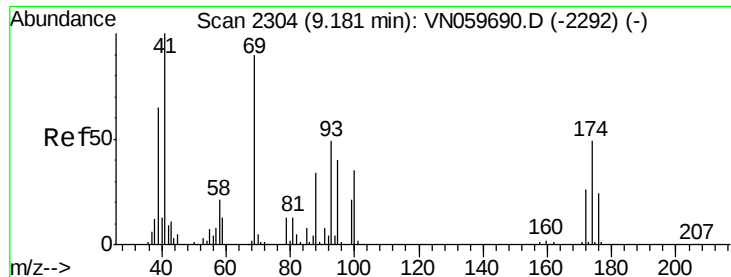
Abundance Ion 62.90 (62.60 to 63.60): VN059931.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059931.D (-2186) (-)



Time-->

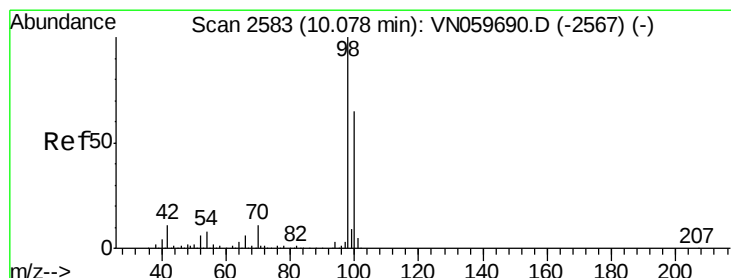
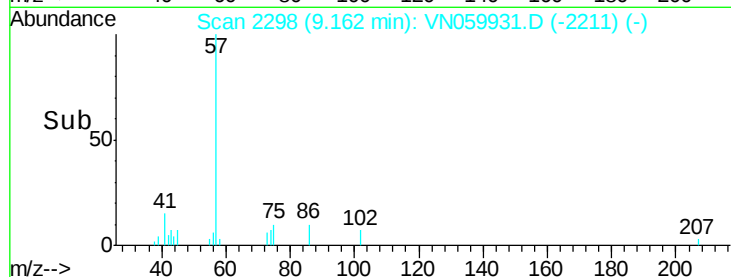
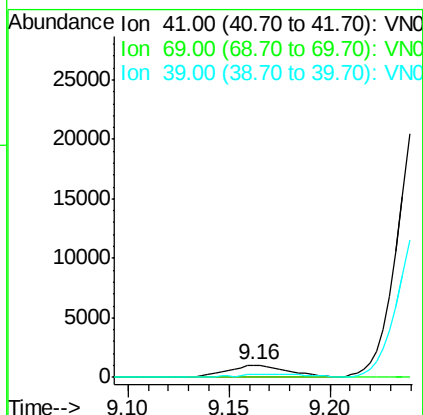
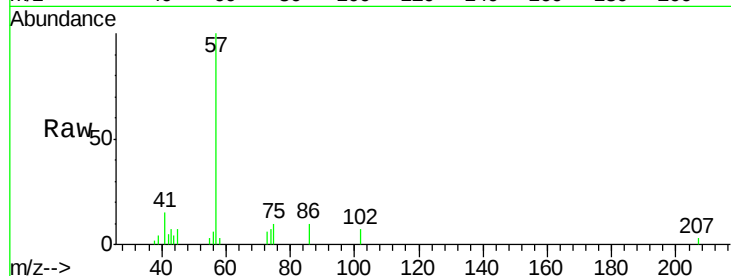




#48
Methvl methacrylate
Concen: 1.131 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

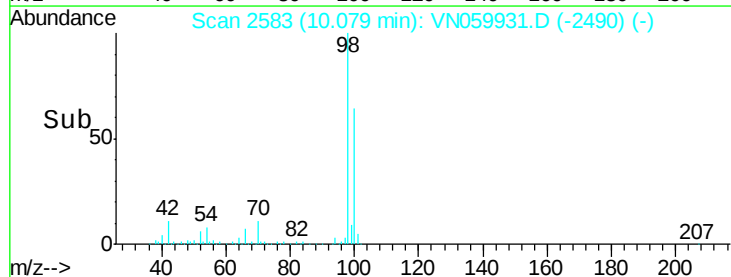
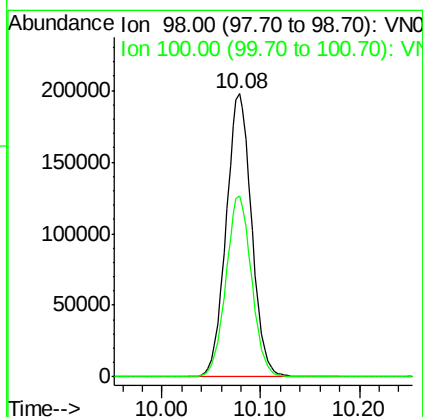
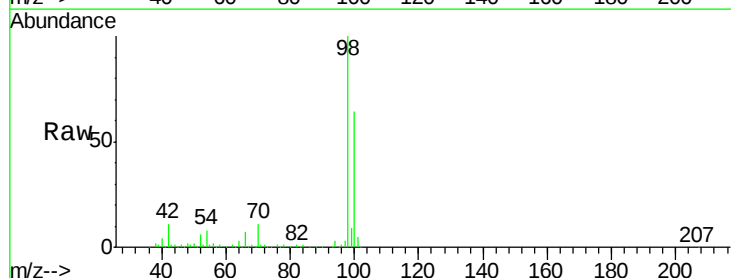
Instrument :
MSVOA_N
ClientSampled :

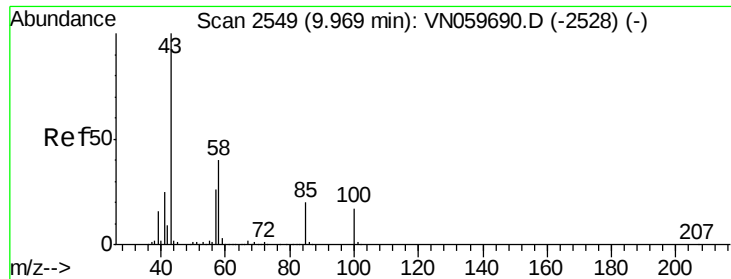
Tot Ion: 41 Resp: 2112
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 52.034 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Tgt Ion: 98 Resp: 357314
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8

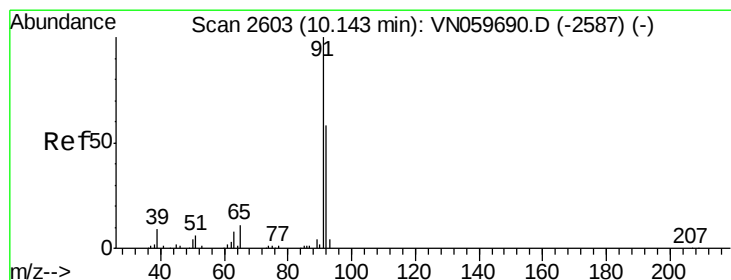
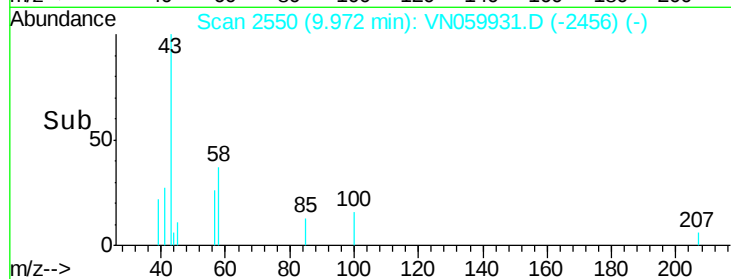
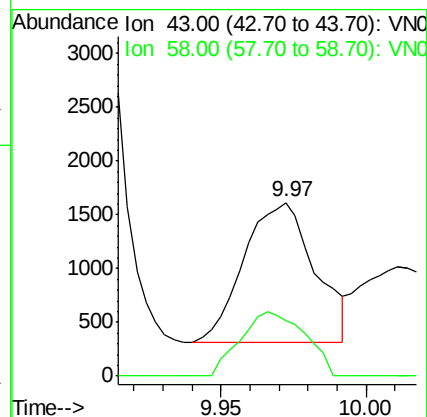
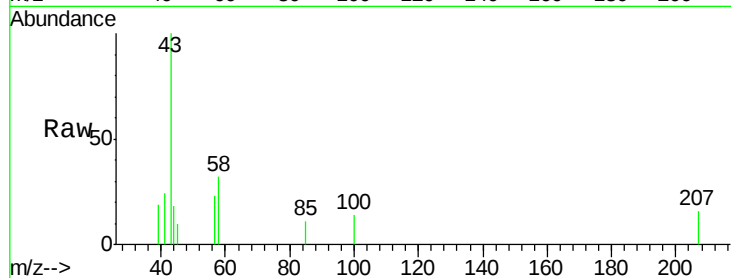




#51
 4-Methyl-2-Pentanone
 Concen: 0.909 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

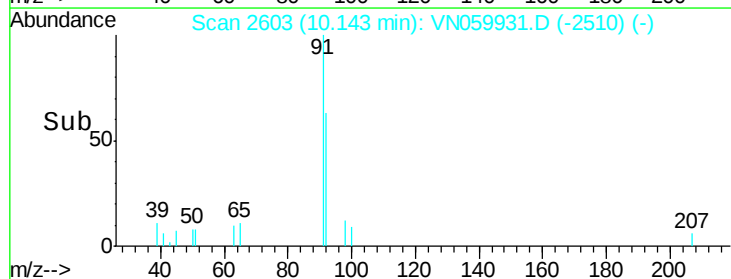
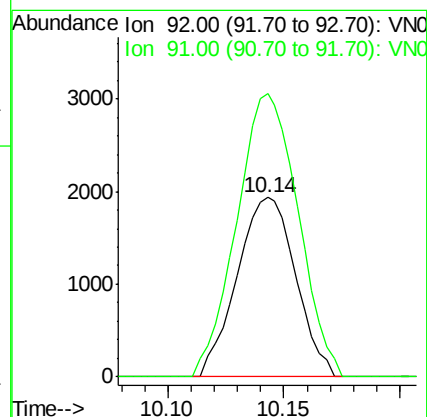
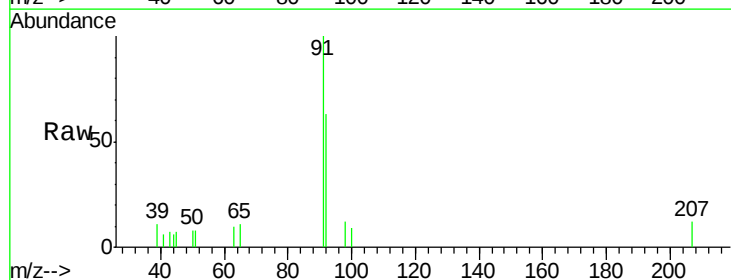
Instrument :
 MSVOA_N
 ClientSampled :

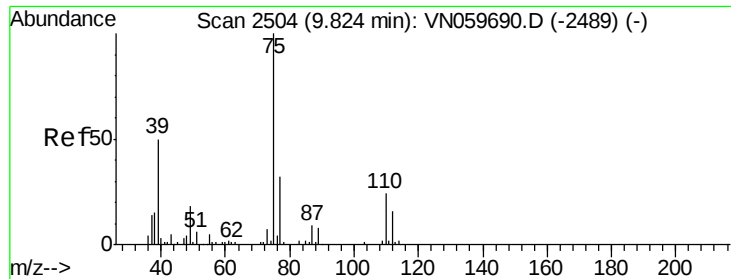
Tot Ion: 43 Resp: 2195
 Ion Ratio Lower Upper
 43 100
 58 42.2 29.8 44.8



#52
 Toluene
 Concen: 0.694 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. 0.00 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

Tgt Ion: 92 Resp: 3383
 Ion Ratio Lower Upper
 92 100
 91 166.1 140.4 210.6



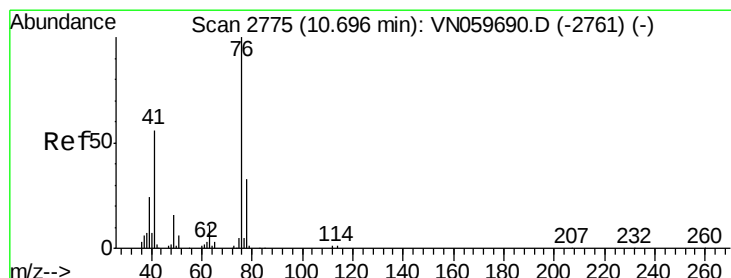
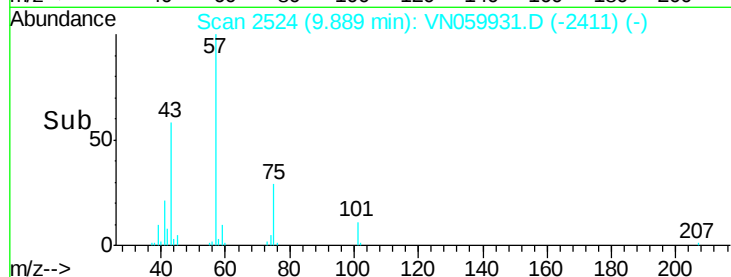
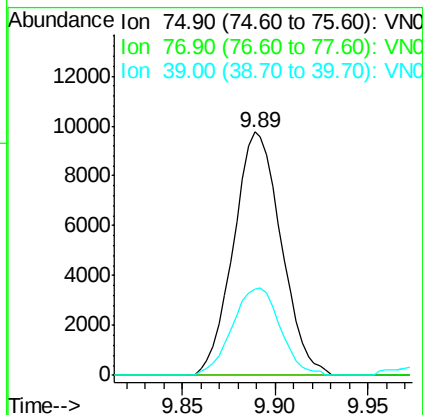
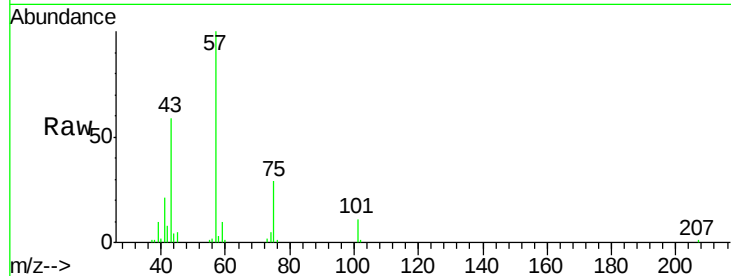


#54

cis-1,3-Dichloropropene
 Concen: 5.443 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

Instrument :
 MSVOA_N
 ClientSampleId :

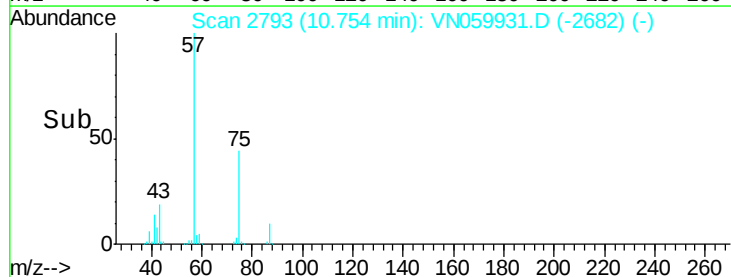
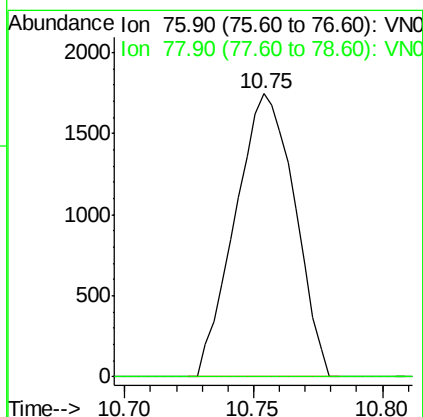
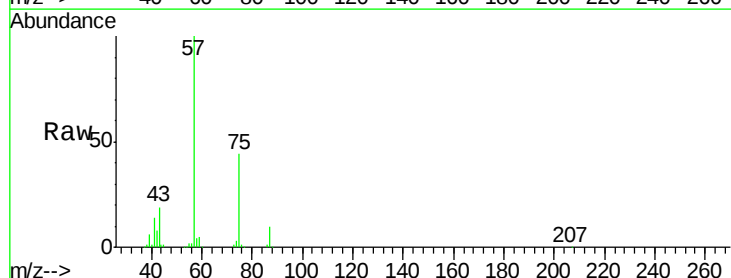
Tot Ion: 75 Resp: 17362
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 35.3 46.1 69.1#

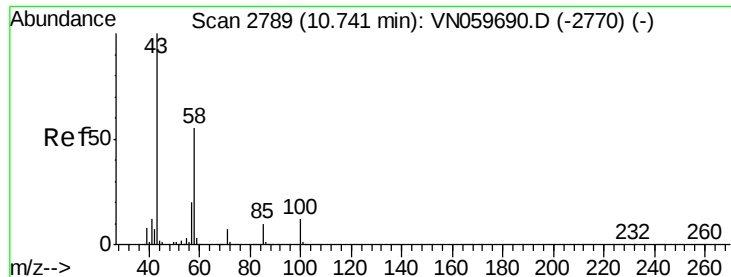


#57

1,3-Dichloropropane
 Concen: 0.917 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059931.D
 Acq: 30 Jan 2020 16:08

Tgt Ion: 76 Resp: 2812
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

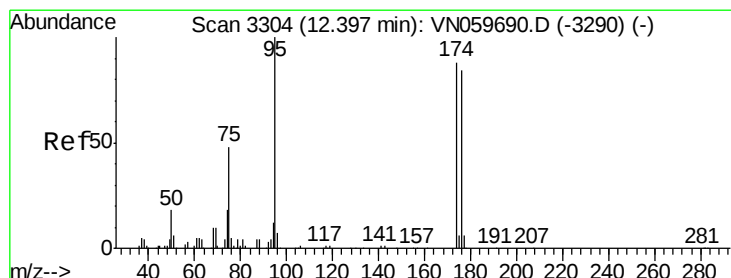
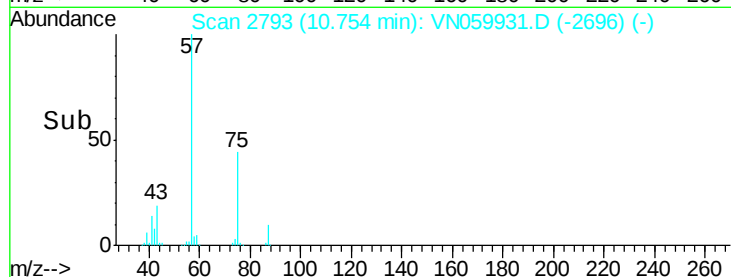
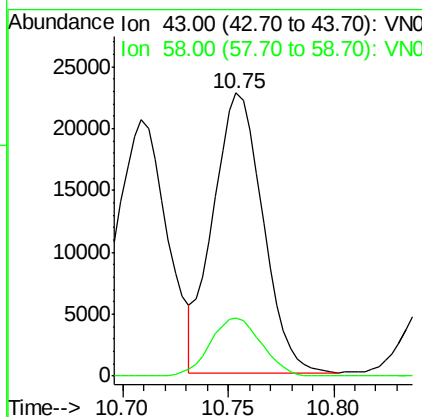
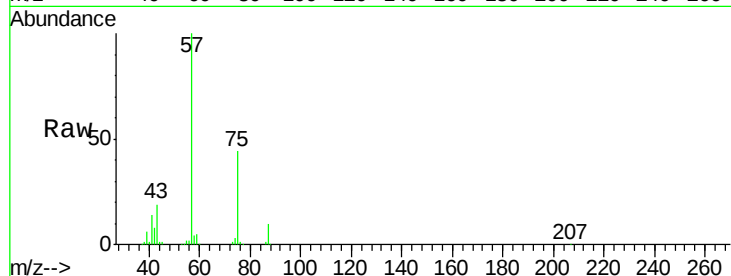




#59
2-Hexanone
Concen: 20.848 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

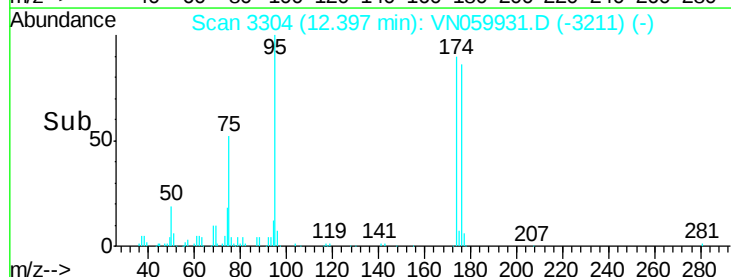
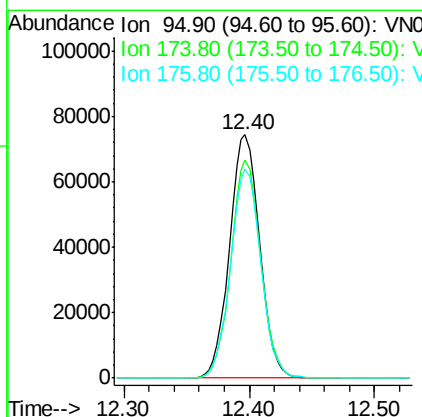
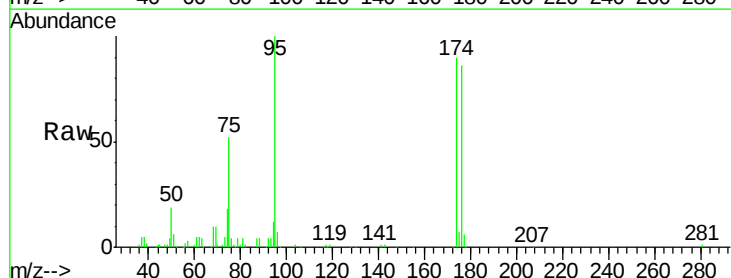
Instrument :
MSVOA_N
ClientSampled :

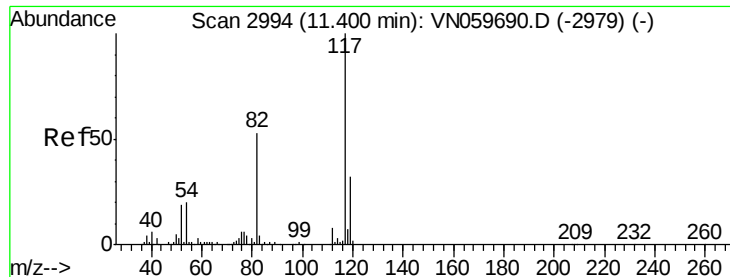
Tot Ion: 43 Resp: 37069
Ion Ratio Lower Upper
43 100
58 21.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 50.291 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Tgt Ion: 95 Resp: 124496
Ion Ratio Lower Upper
95 100
174 88.2 0.0 151.4
176 86.0 0.0 146.0

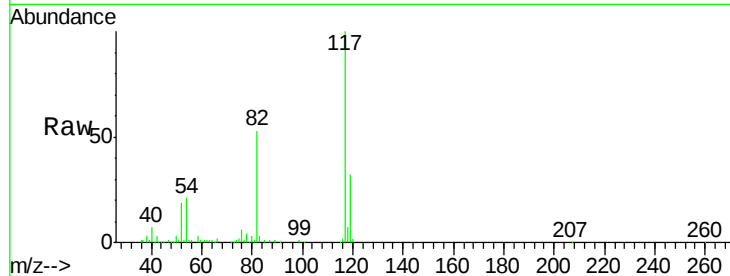




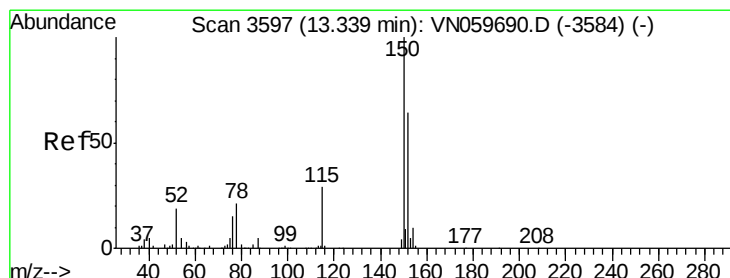
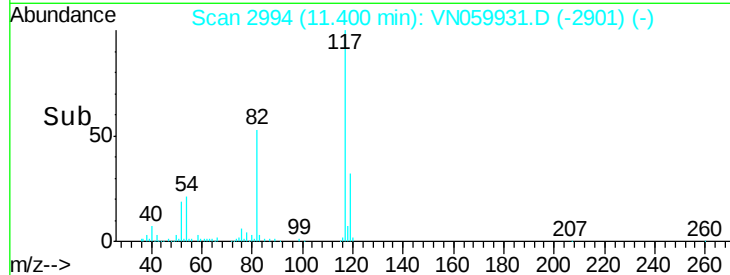
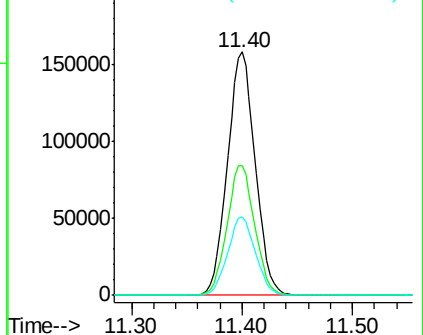
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 275947
Ion Ratio Lower Upper
117 100
82 53.4 45.9 68.9
119 32.2 25.5 38.3

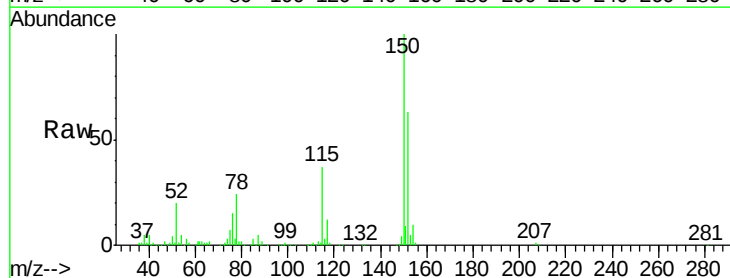


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

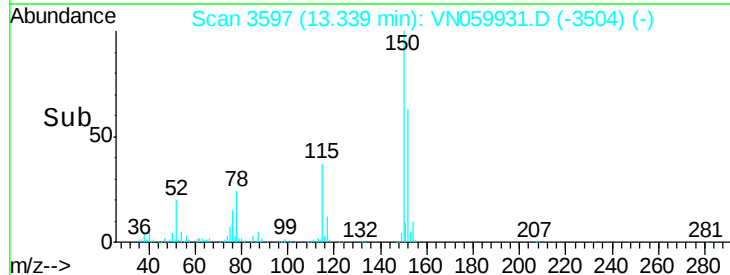
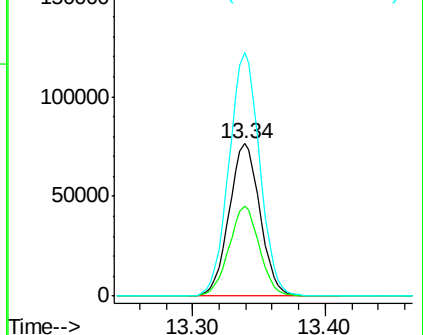


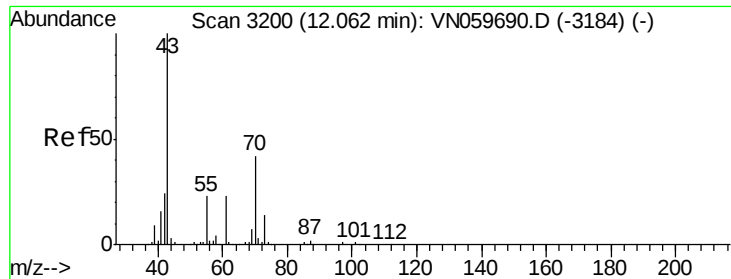
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Tgt Ion:152 Resp: 123891
Ion Ratio Lower Upper
152 100
115 58.1 30.3 90.9
150 158.8 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: 0.537 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1893

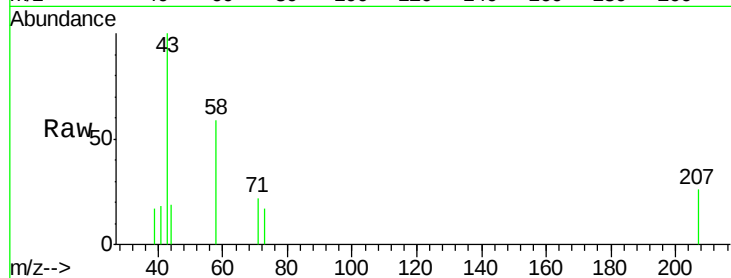
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

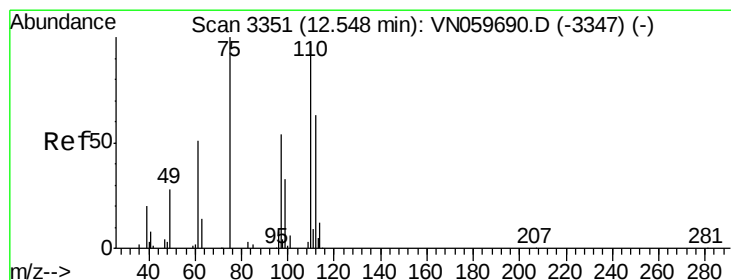
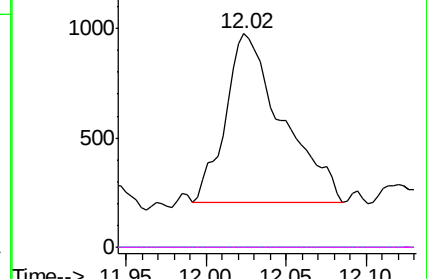
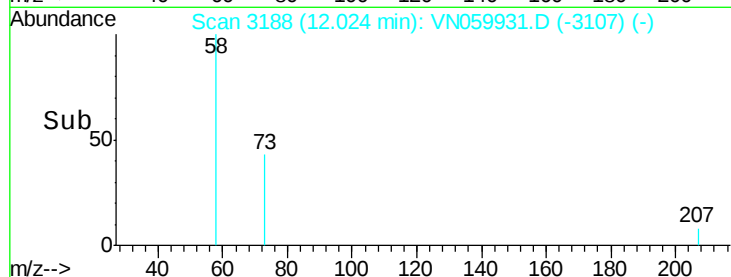


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.354 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059931.D

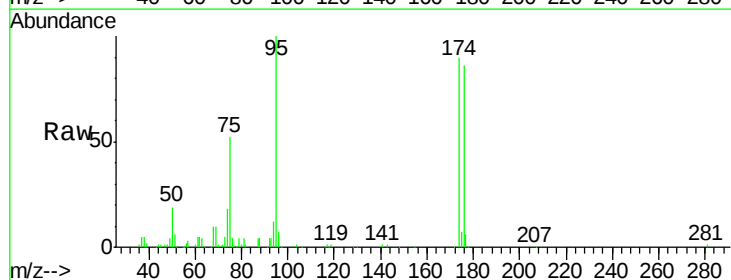
Acq: 30 Jan 2020 16:08

Tgt Ion: 75 Resp: 63287

Ion Ratio Lower Upper

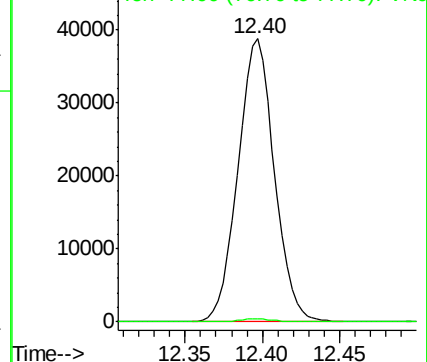
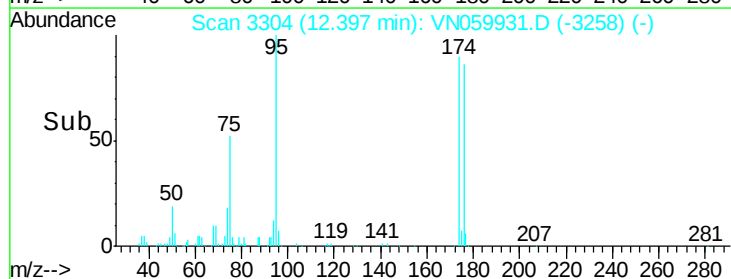
75 100

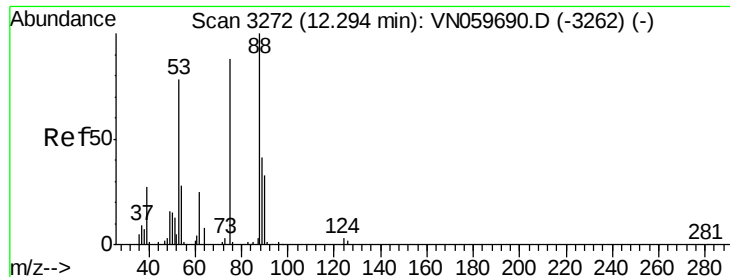
77 0.9 0.0 0.0#



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: 65.185 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

Instrument :

MSVOA_N

ClientSampled :

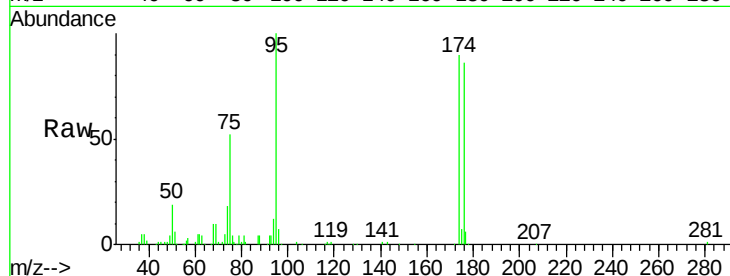
Tot Ion: 75 Resp: 63287

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

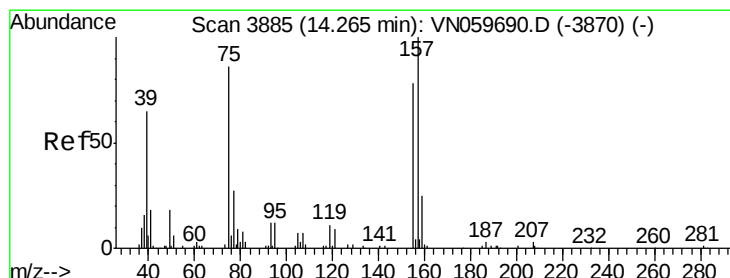
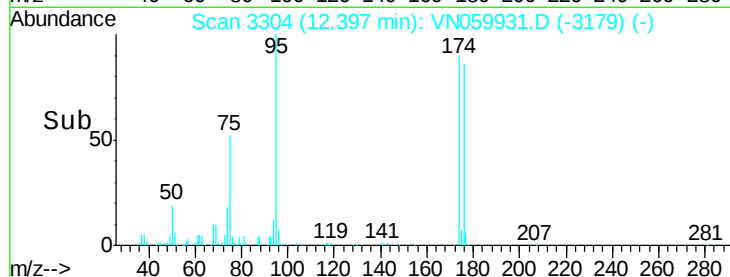
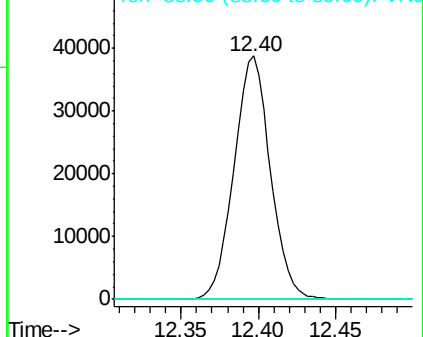
89 0.0 35.4 53.2#



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: 14.32 min Scan# 3902

Delta R.T. 0.06 min

Lab File: VN059931.D

Acq: 30 Jan 2020 16:08

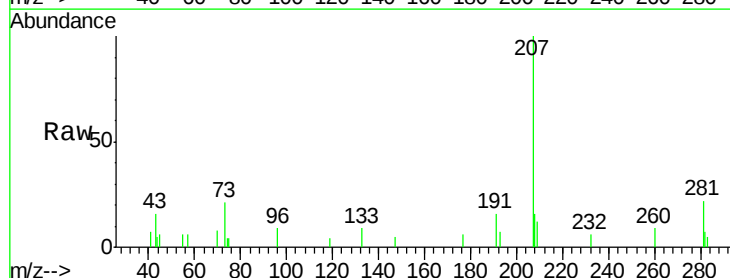
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

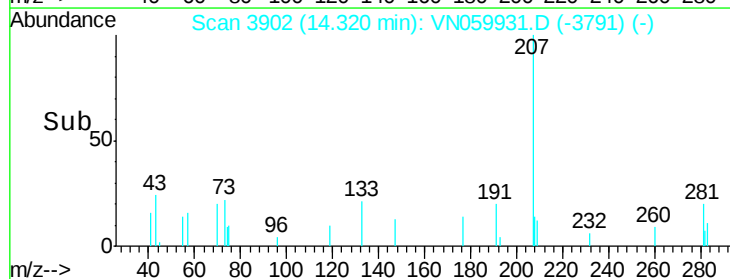
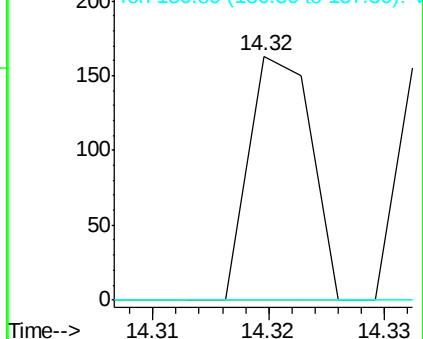
157 0.0 48.4 145.2#

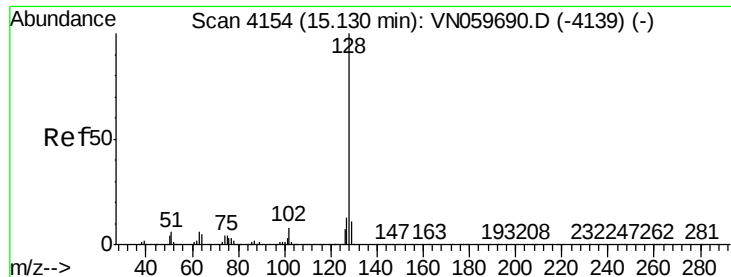


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

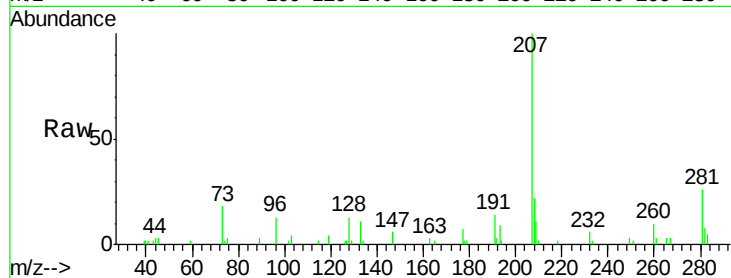




#95
Naphthalene
Concen: 0.345 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059931.D
Acq: 30 Jan 2020 16:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.0	10.4	15.6#
129	4.3	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

