

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060063.D
 Acq On : 11 Feb 2020 14:19
 Operator : JC/MD
 Sample : PB126730ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:23:35 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	187712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	297148	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	277880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	125817	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	111136	53.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.62%	
35) Dibromofluoromethane	7.57	113	91764	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
50) Toluene-d8	10.08	98	361073	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.40	95	129877	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	

Target Compounds

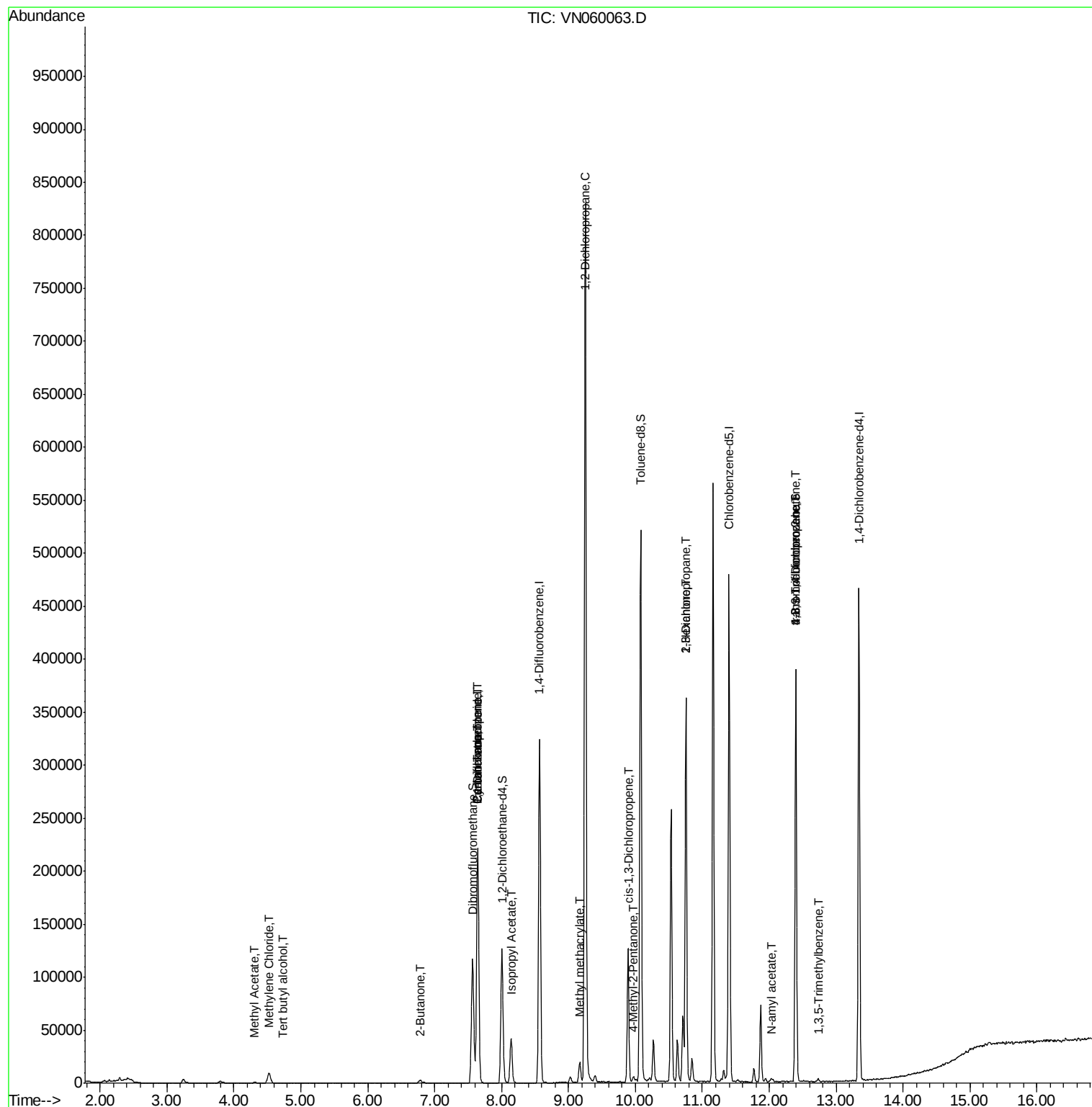
					Qvalue
11) Tert butyl alcohol	4.73	59	205	0.584 ug/l #	72
16) Acetone	3.79	43	4069	Below Cal	93
18) Methyl Acetate	4.30	43	1016	0.417 ug/l #	54
20) Methylene Chloride	4.52	84	7963	3.006 ug/l	86
25) 2-Butanone	6.80	43	395	0.335 ug/l #	50
31) Cyclohexane	7.64	56	3780	1.226 ug/l #	11
36) 1,1-Dichloropropene	7.64	75	13735	5.308 ug/l #	50
38) Carbon Tetrachloride	7.64	117	17512	6.221 ug/l #	16
43) Isopropyl Acetate	8.14	43	50563	12.112 ug/l #	91
45) 1,2-Dichloropropane	9.25	63	876	0.459 ug/l #	44
48) Methyl methacrylate	9.16	41	3066	1.642 ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3153	1.307 ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	24366	7.640 ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3850	1.256 ug/l #	42
59) 2-Hexanone	10.75	43	53404	30.039 ug/l #	54
74) N-amyl acetate	12.03	43	2819	0.787 ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67379	31.822 ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1861	0.240 ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	67379	68.338 ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.37	75	167	Below Cal #	6

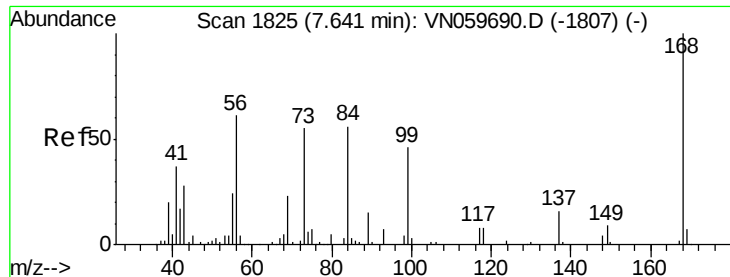
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

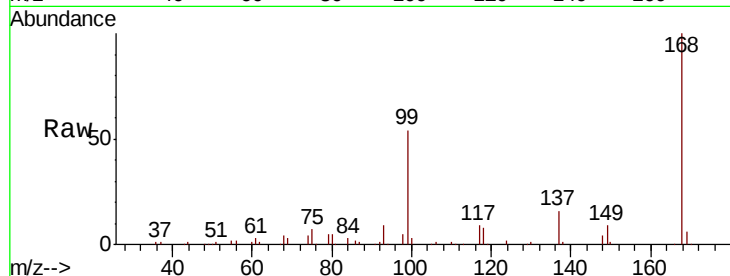
ClientSampled :

Tot Ion:168 Resp: 187712

Ion Ratio Lower Upper

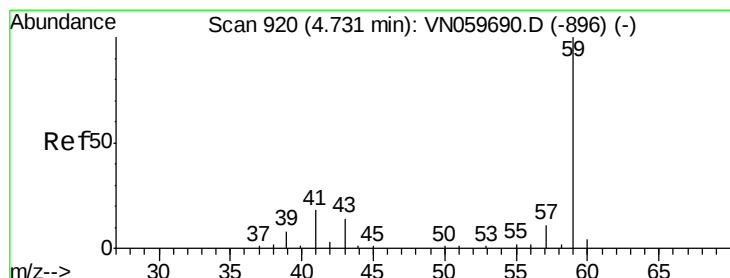
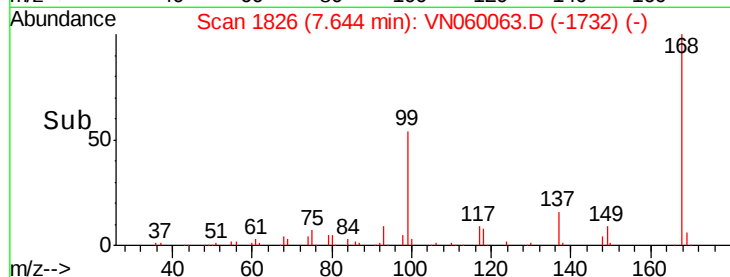
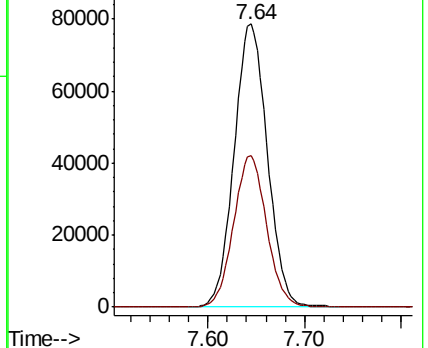
168 100

99 53.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.584 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN060063.D

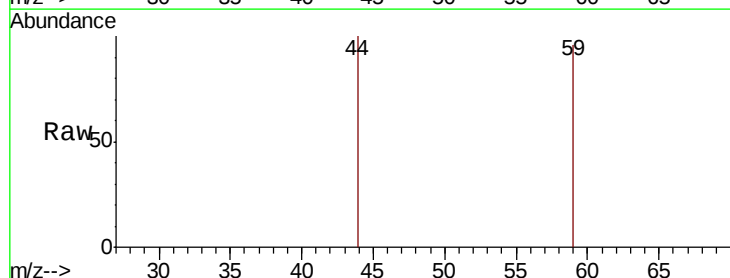
Acq: 11 Feb 2020 14:19

Tgt Ion: 59 Resp: 205

Ion Ratio Lower Upper

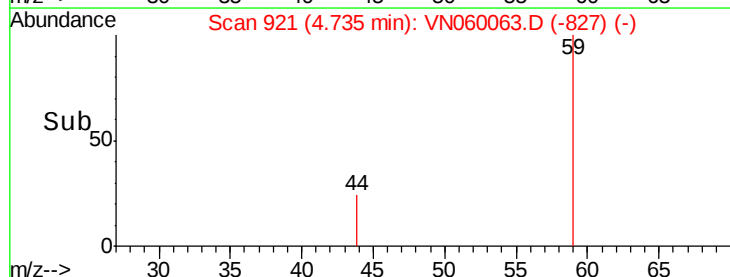
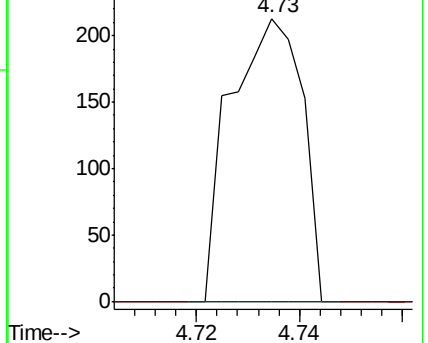
59 100

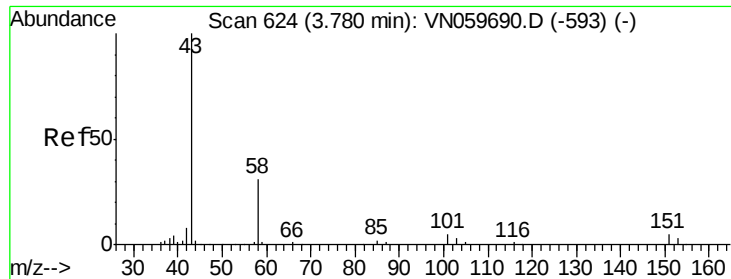
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

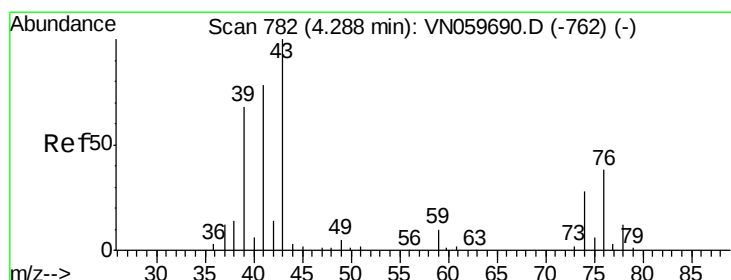
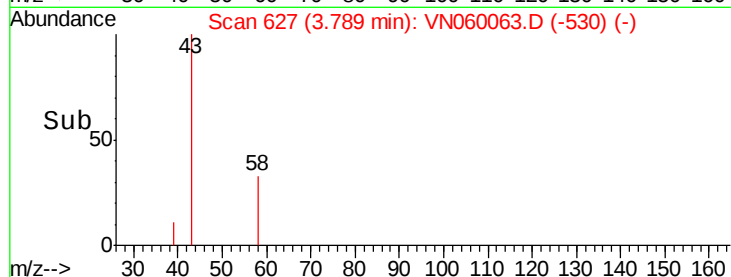
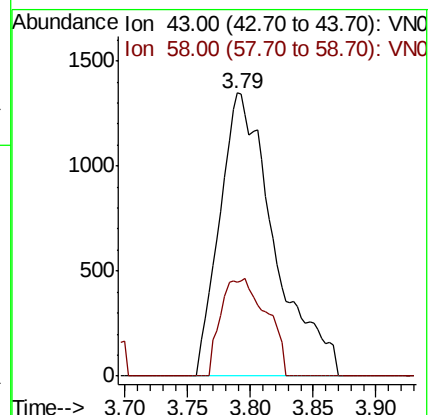
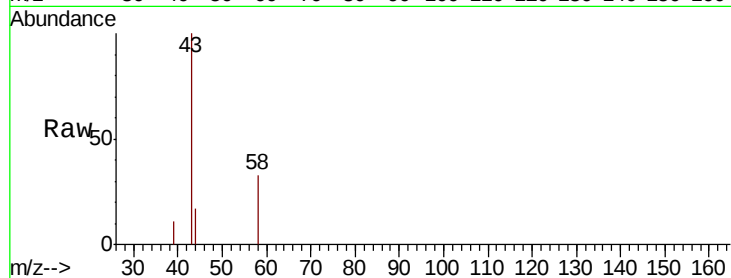
ClientSampled :

Tot Ion: 43 Resp: 4069

Ion Ratio Lower Upper

43 100

58 33.1 23.6 35.4



#18

Methyl Acetate

Concen: 0.417 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060063.D

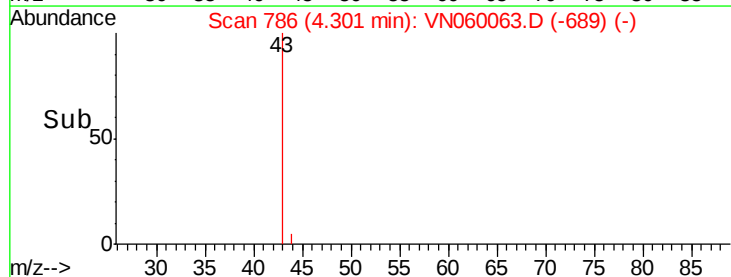
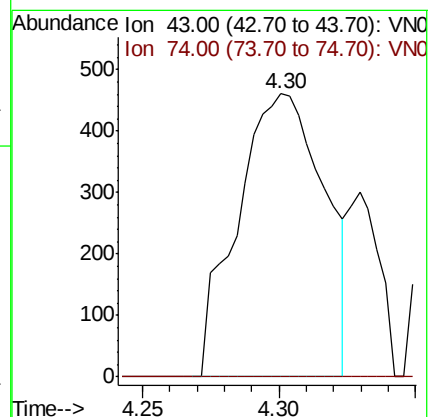
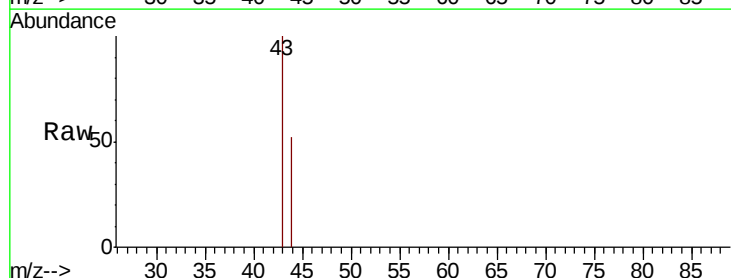
Acq: 11 Feb 2020 14:19

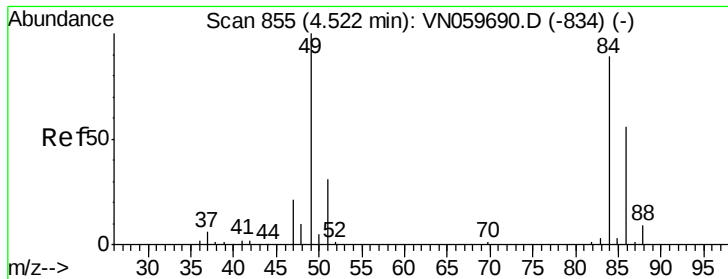
Tgt Ion: 43 Resp: 1016

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

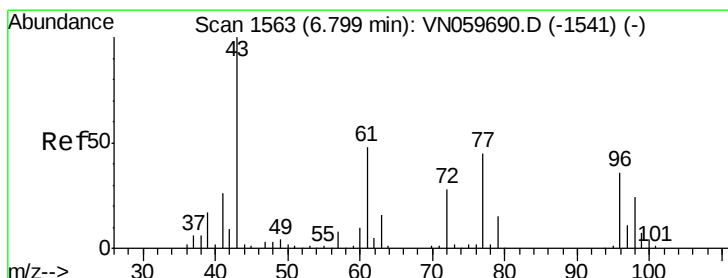
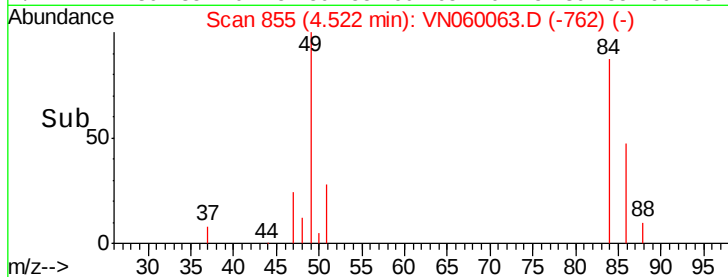
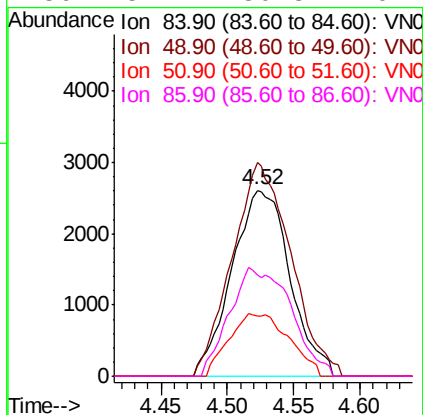
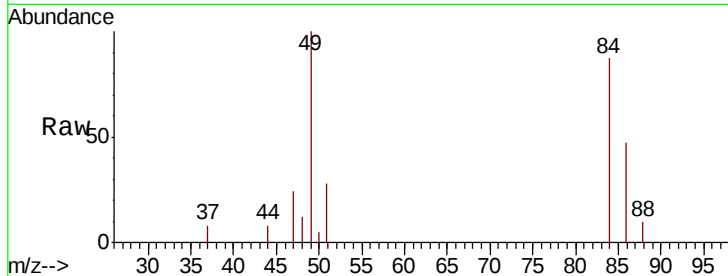




#20
Methvlene Chloride
Concen: 3.006 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

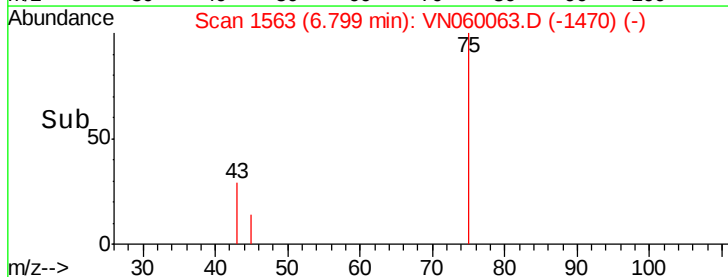
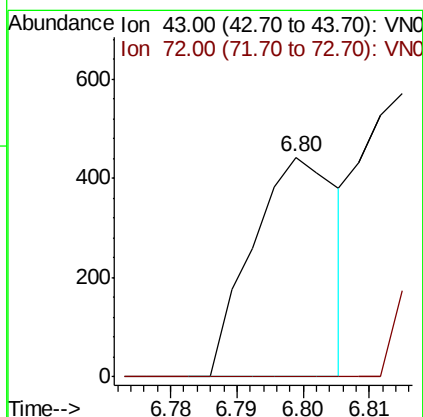
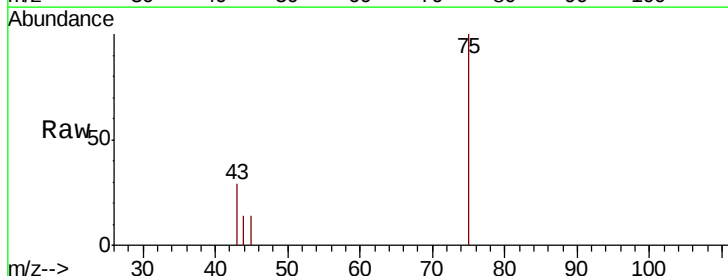
Instrument :
MSVOA_N
ClientSampled :

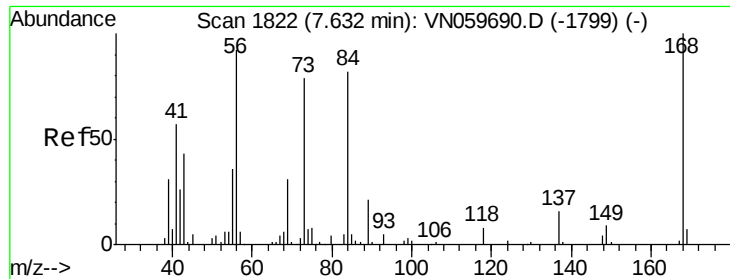
Tot Ion: 84 Resp: 7963
Ion Ratio Lower Upper
84 100
49 114.7 106.6 160.0
51 32.4 31.9 47.9
86 54.1 50.8 76.2



#25
2-Butanone
Concen: 0.335 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Tgt Ion: 43 Resp: 395
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

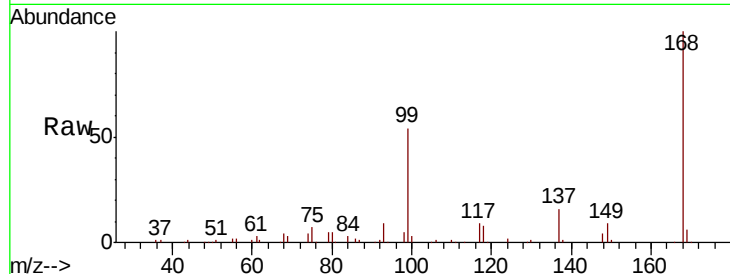




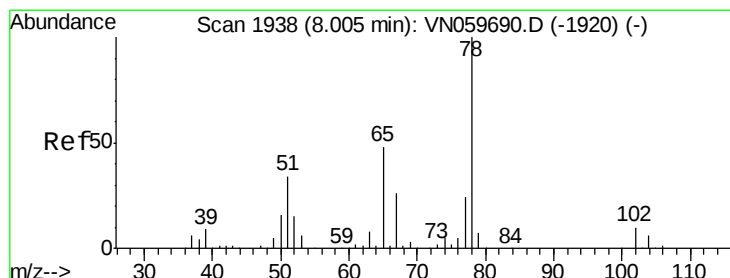
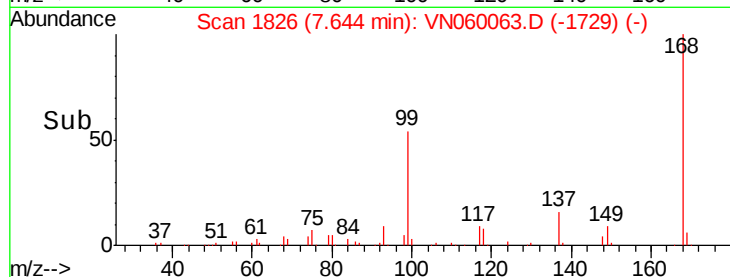
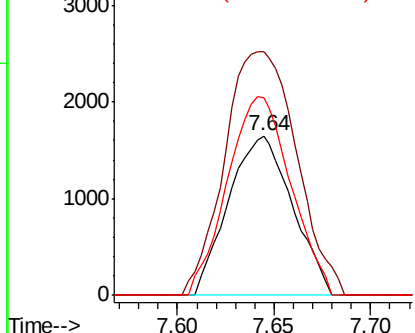
#31
Cyclohexane
Concen: 1.226 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3780
Ion Ratio Lower Upper
56 100
69 143.2 26.5 39.7#
84 123.4 65.3 97.9#

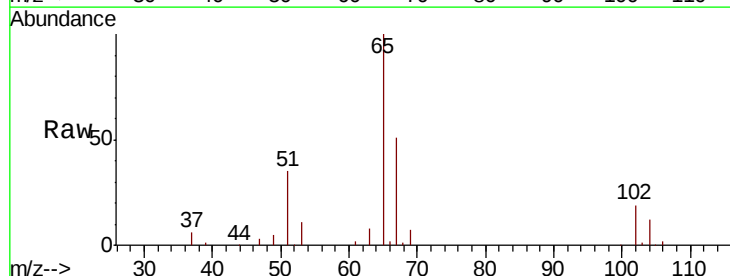


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

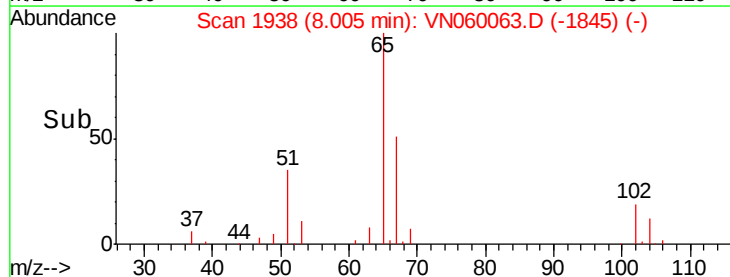
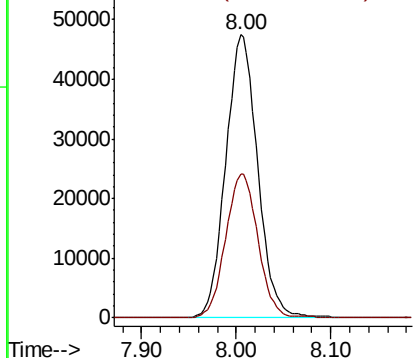


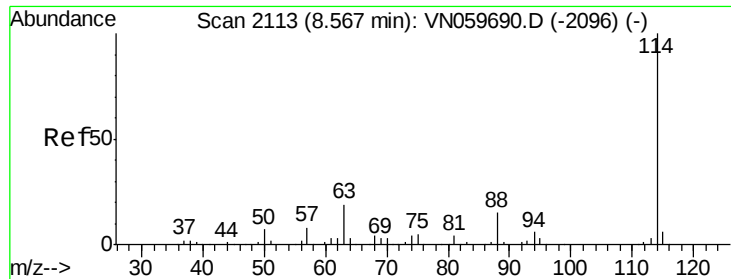
#33
1,2-Dichloroethane-d4
Concen: 53.313 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Tgt Ion: 65 Resp: 111136
Ion Ratio Lower Upper
65 100
67 51.4 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

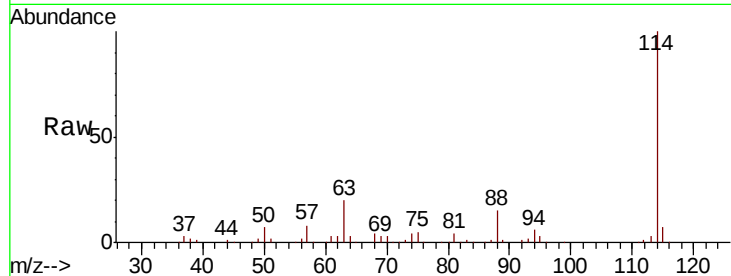




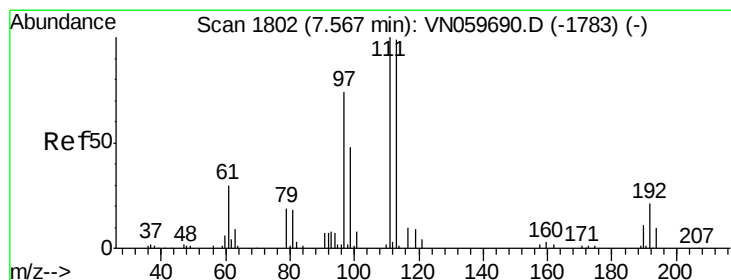
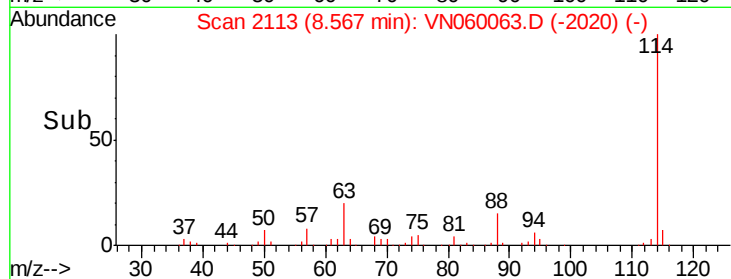
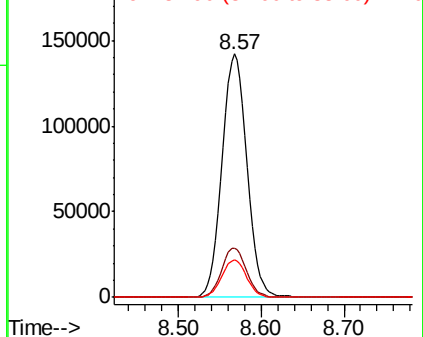
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060063.D
 Acq: 11 Feb 2020 14:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 297148
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 43.6
 88 15.4 0.0 31.4

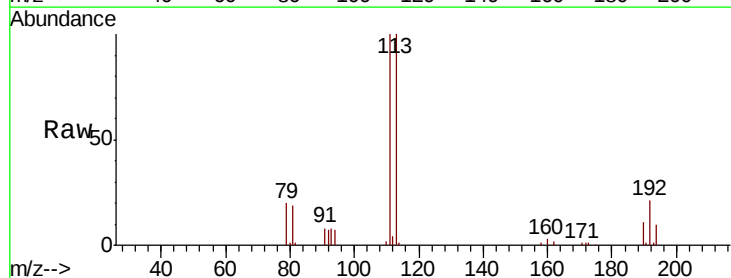


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

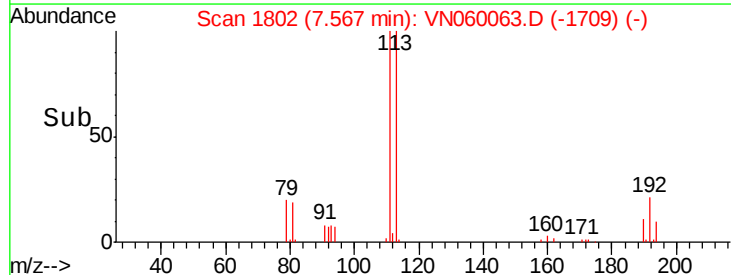
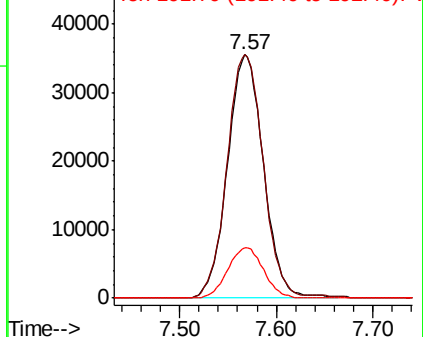


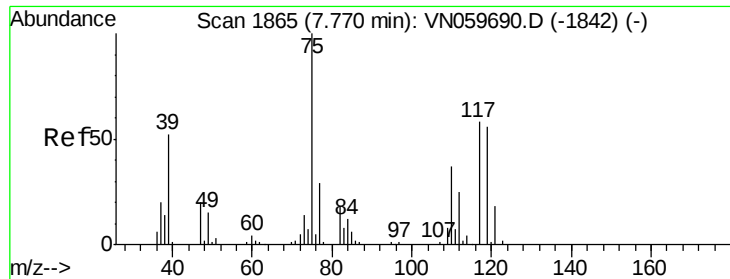
#35
 Dibromofluoromethane
 Concen: 51.785 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060063.D
 Acq: 11 Feb 2020 14:19

Tgt Ion:113 Resp: 91764
 Ion Ratio Lower Upper
 113 100
 111 101.1 83.5 125.3
 192 20.5 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

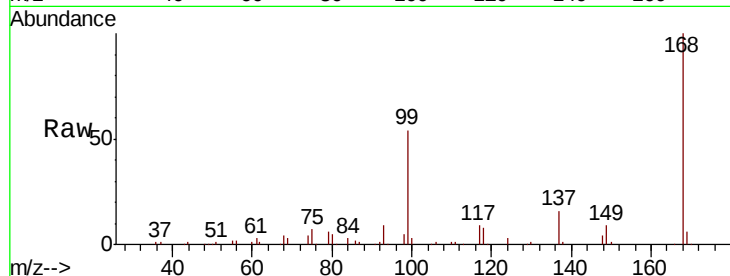




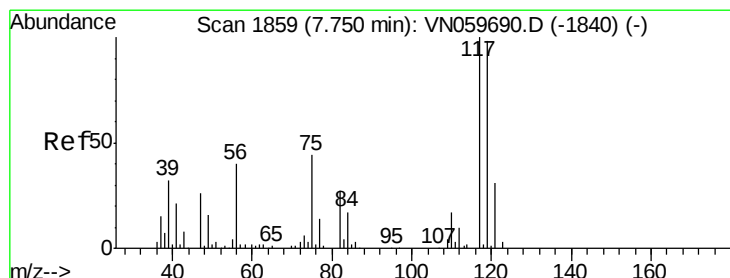
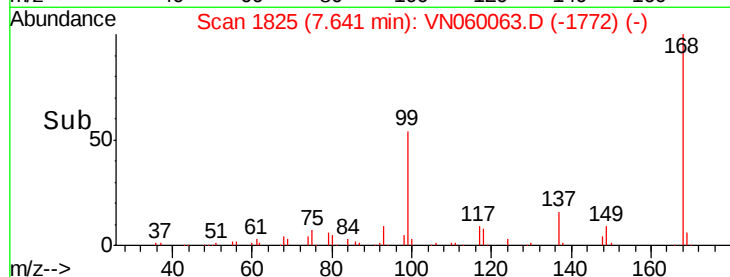
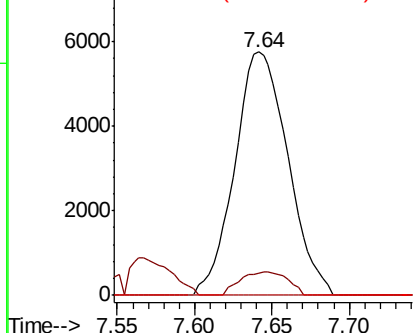
#36
 1,1-Dichloropropene
 Concen: 5.308 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060063.D
 Acq: 11 Feb 2020 14:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13735
Ion Ratio	Lower	Upper	
75	100		
110	8.5	16.6	49.7#
77	0.0	25.1	37.7#

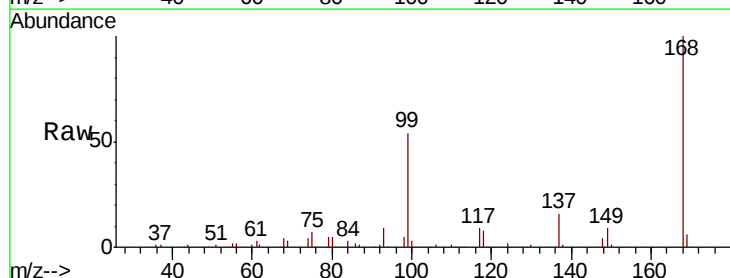


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

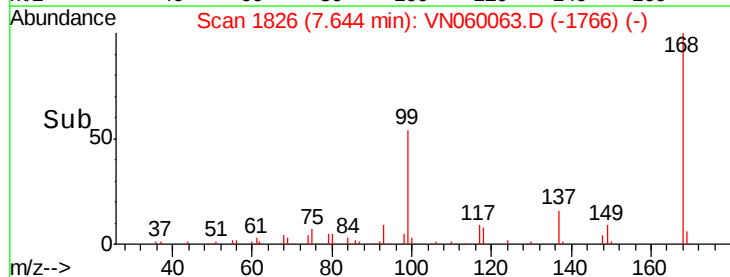
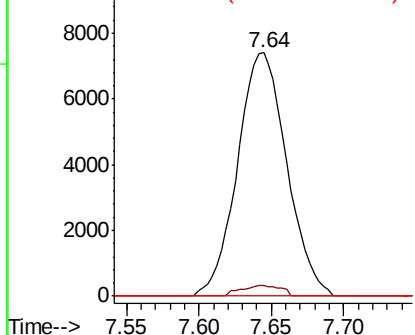


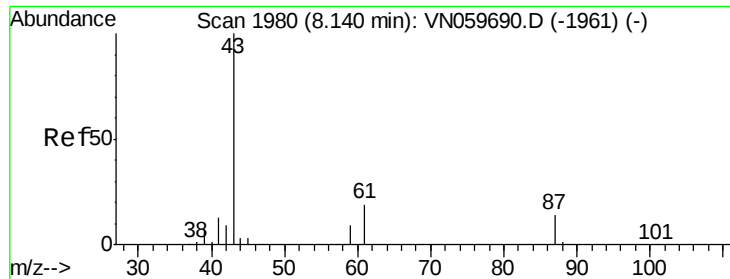
#38
 Carbon Tetrachloride
 Concen: 6.221 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060063.D
 Acq: 11 Feb 2020 14:19

Tgt Ion	117	Resp	17512
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.5	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: 12.112 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

ClientSampleId :

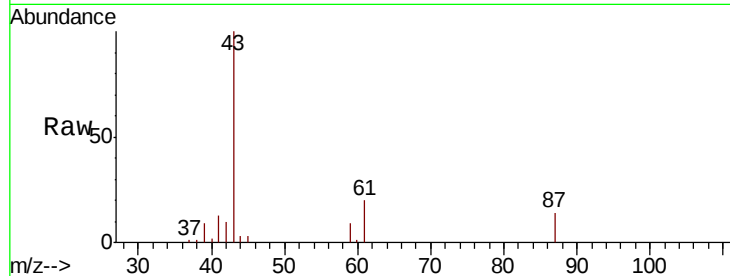
Tot Ion: 43 Resp: 50563

Ion Ratio Lower Upper

43 100

61 19.8 20.2 30.2#

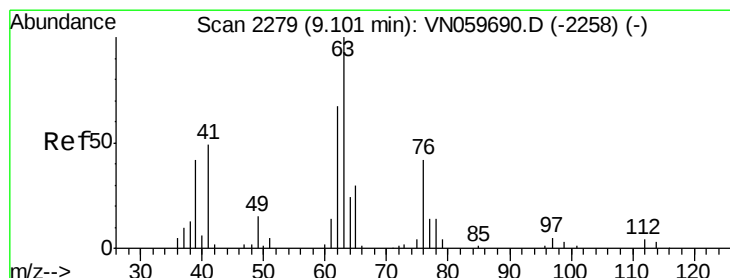
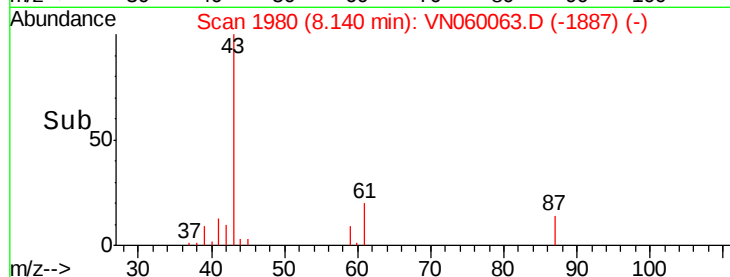
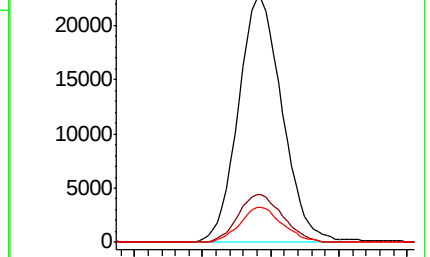
87 13.7 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN060063.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN060063.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN060063.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060063.D

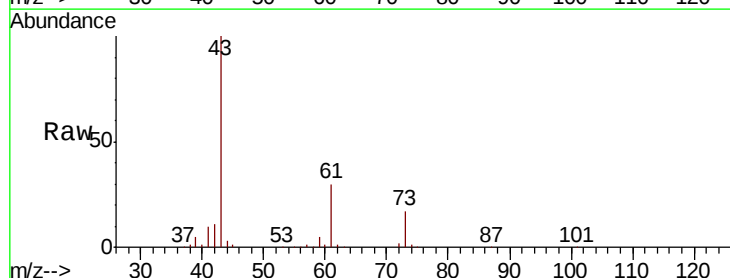
Acq: 11 Feb 2020 14:19

Tgt Ion: 63 Resp: 876

Ion Ratio Lower Upper

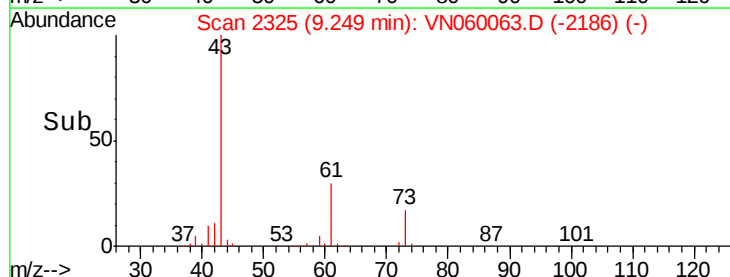
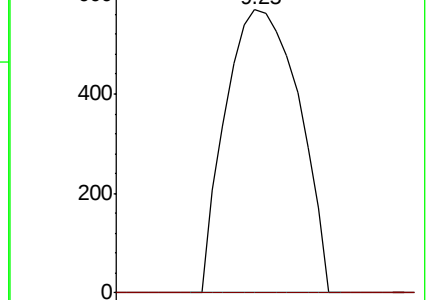
63 100

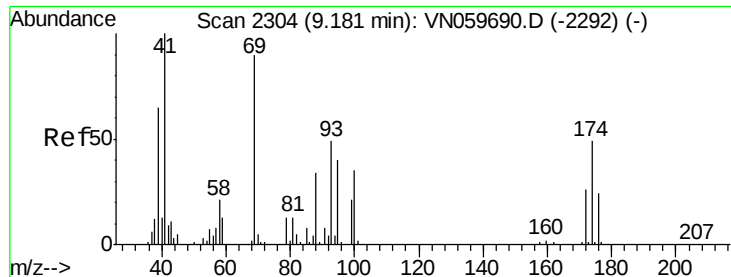
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN060063.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060063.D (-2325) (-)

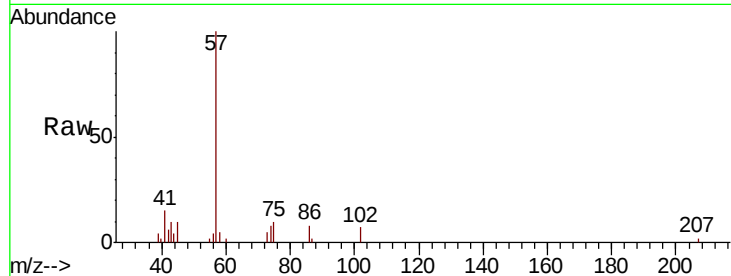




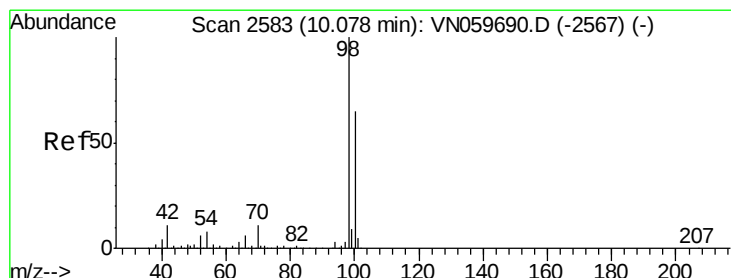
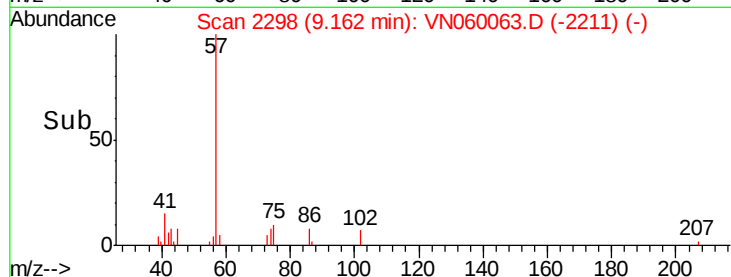
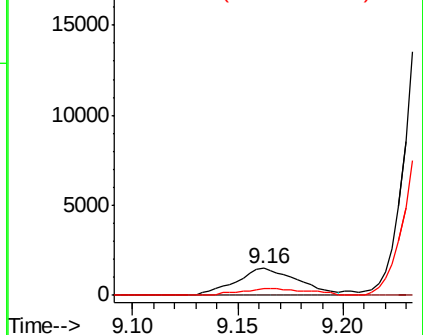
#48
Methvl methacrylate
Concen: 1.642 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Instrument :
MSVOA_N
ClientSampled :

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

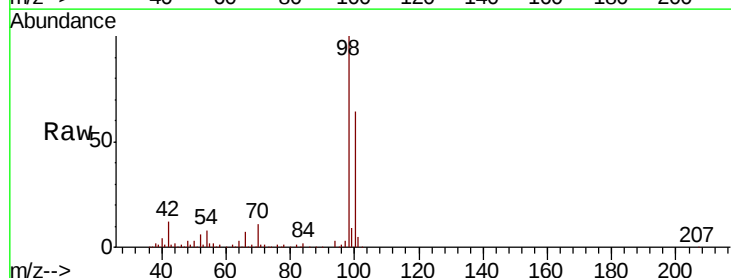


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

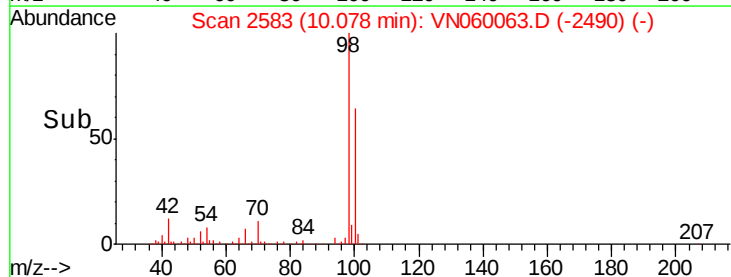
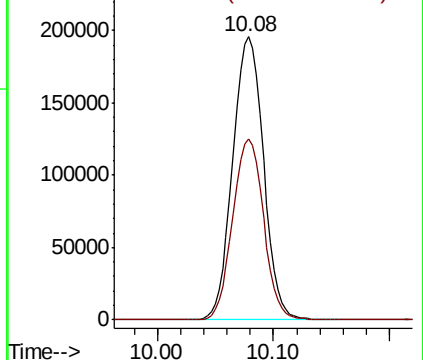


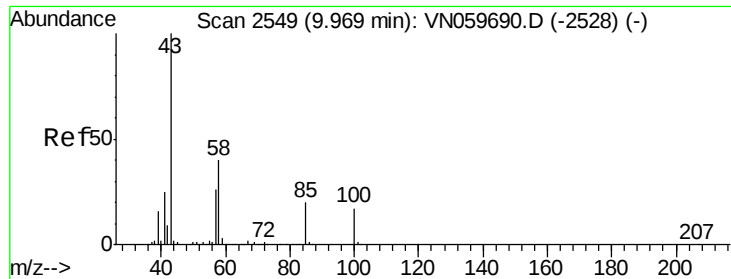
#50
Toluene-d8
Concen: 52.591 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	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: 1.307 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

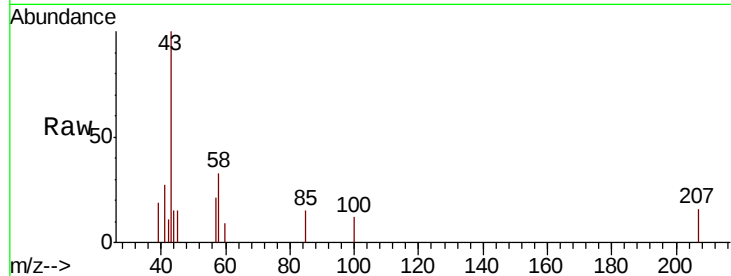
ClientSampled :

Tot Ion: 43 Resp: 3153

Ion Ratio Lower Upper

43 100

58 37.2 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

2000

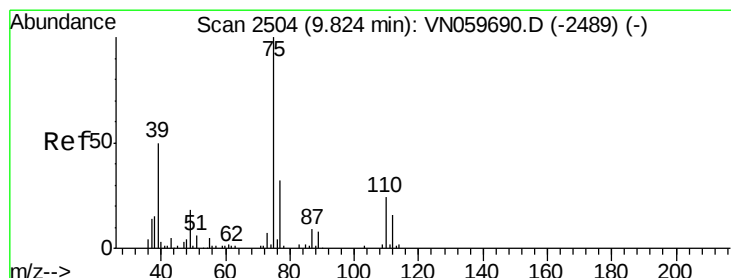
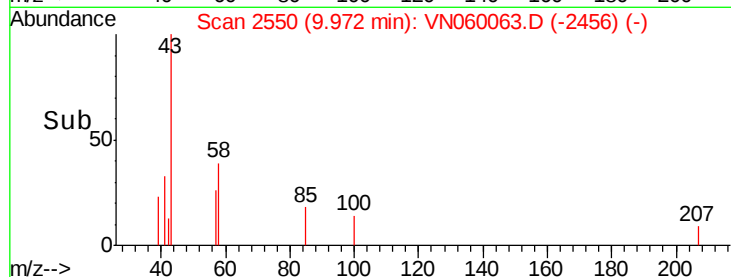
1000

0

9.95

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.640 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

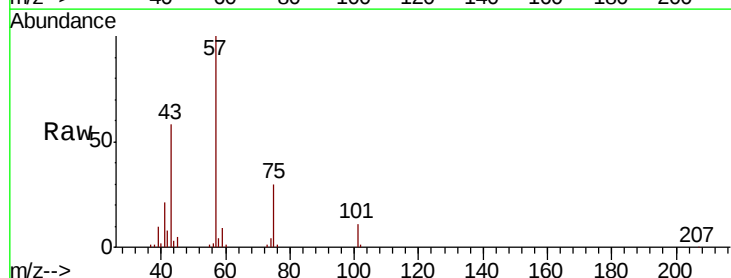
Tgt Ion: 75 Resp: 24366

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 32.9 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

15000

10000

5000

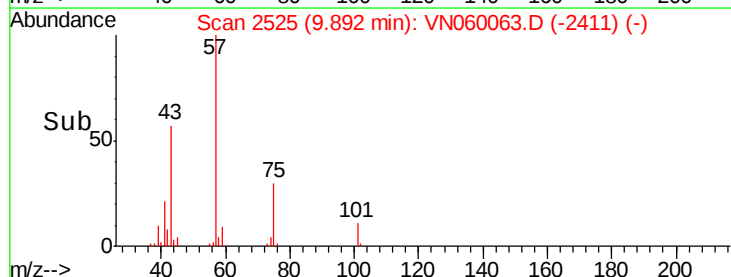
0

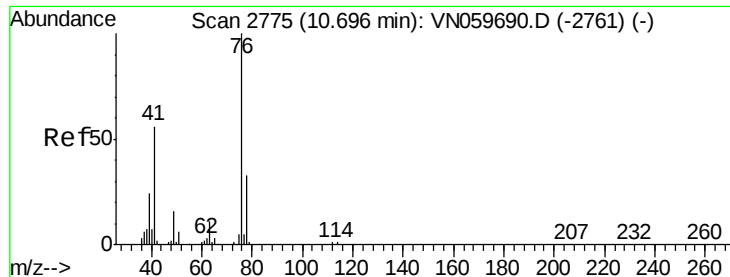
9.85

9.90

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 1.256 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

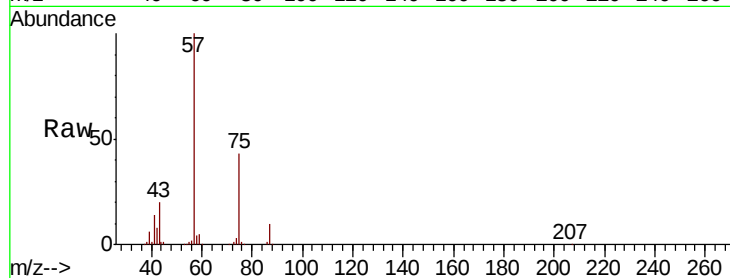
ClientSampled :

Tot Ion: 76 Resp: 3850

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

2500

2000

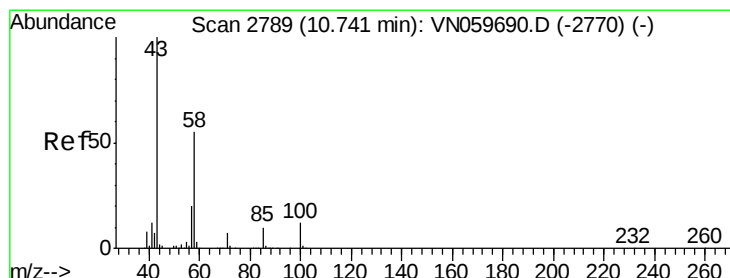
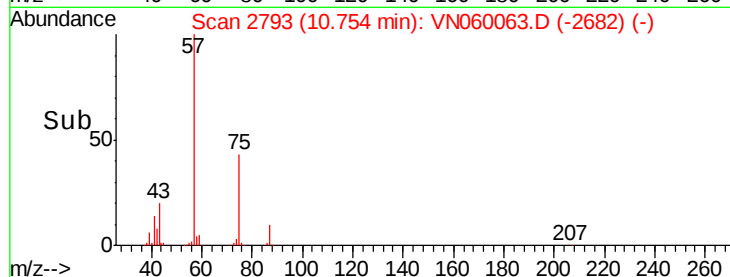
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 30.039 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060063.D

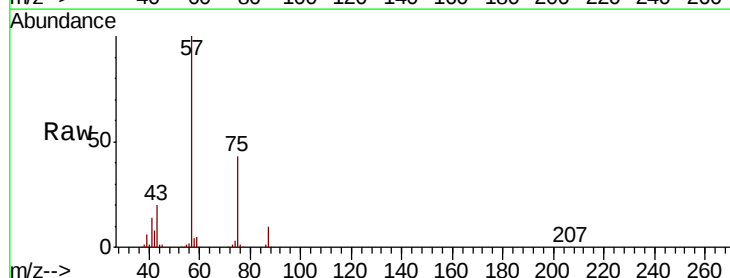
Acq: 11 Feb 2020 14:19

Tgt Ion: 43 Resp: 53404

Ion Ratio Lower Upper

43 100

58 19.7 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

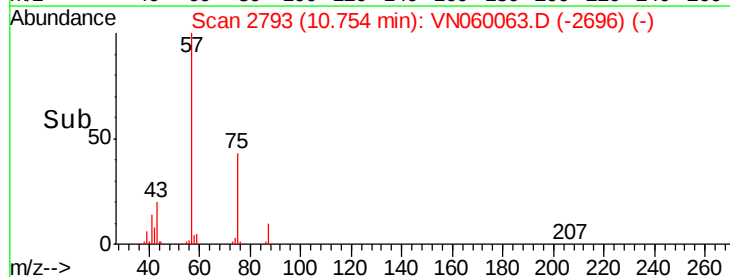
30000

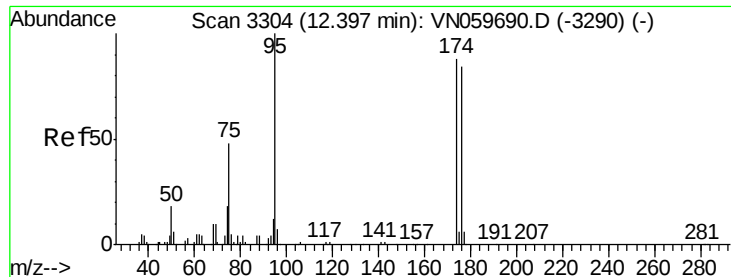
20000

10000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 52.474 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

ClientSampled :

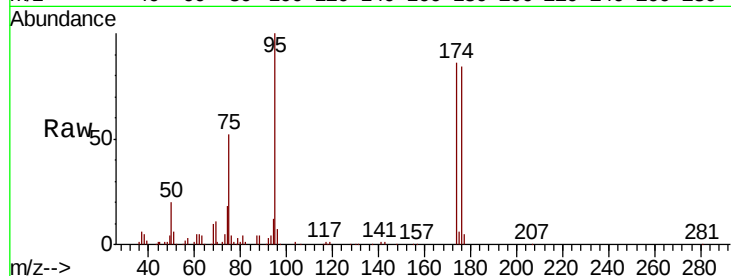
Tot Ion: 95 Resp: 129877

Ion Ratio Lower Upper

95 100

174 85.3 0.0 151.4

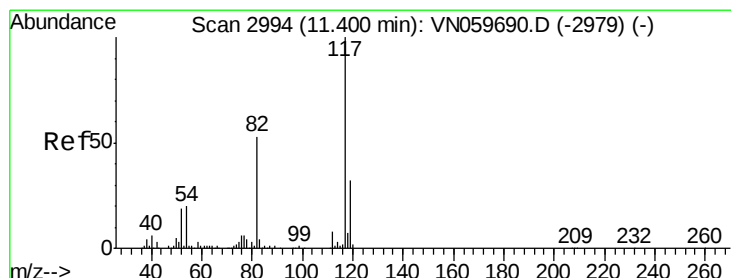
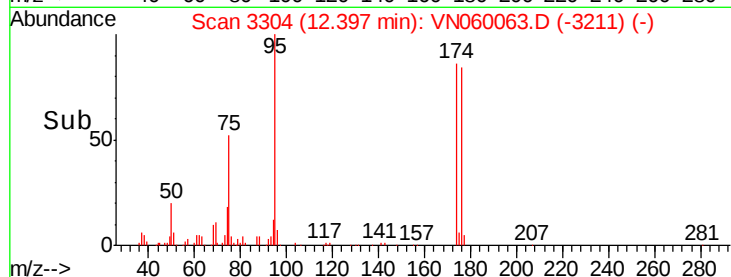
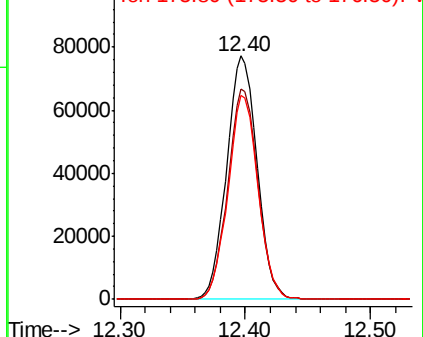
176 82.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN060063.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060063.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060063.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

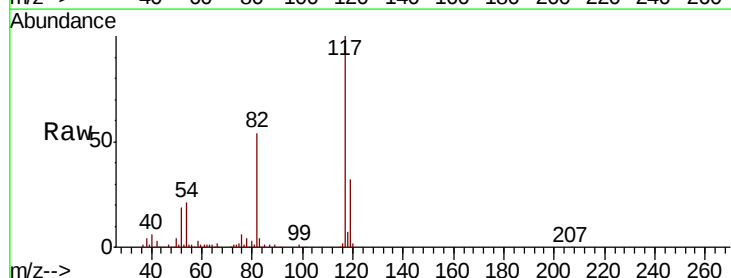
Tgt Ion: 117 Resp: 277880

Ion Ratio Lower Upper

117 100

82 53.5 45.9 68.9

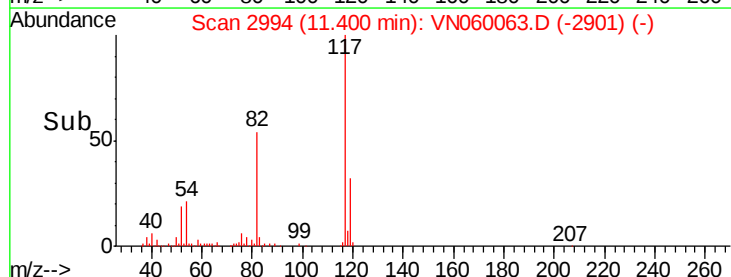
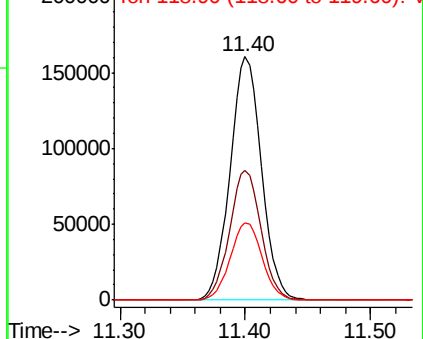
119 31.8 25.5 38.3

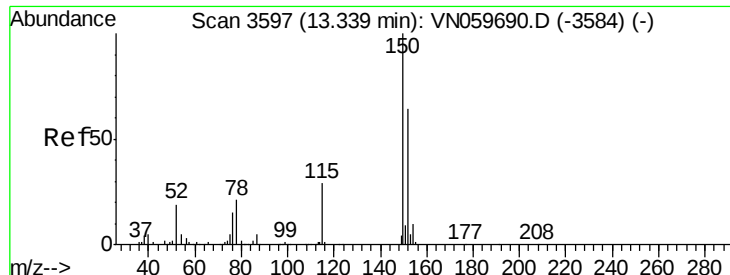


Abundance Ion 116.90 (116.60 to 117.60): VN060063.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060063.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060063.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

ClientSampleId :

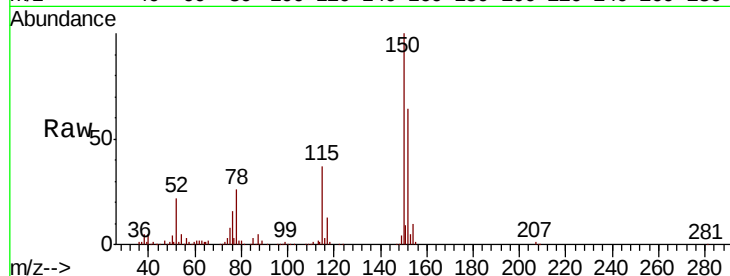
Tot Ion:152 Resp: 125817

Ion Ratio Lower Upper

152 100

115 58.4 30.3 90.9

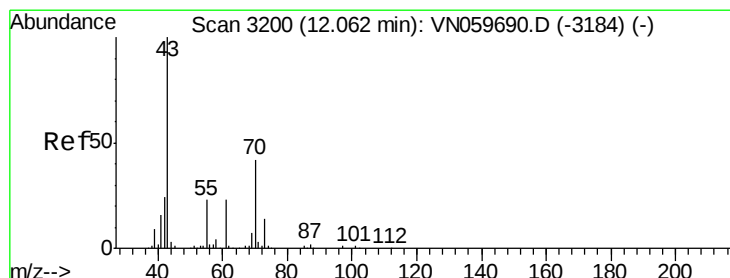
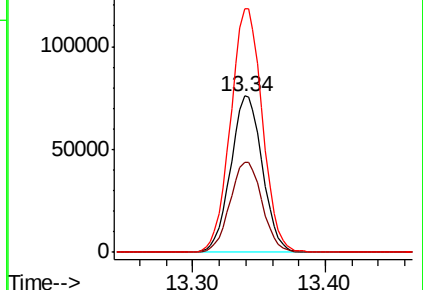
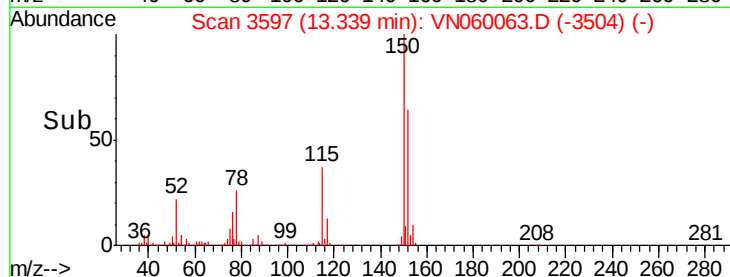
150 157.0 0.0 345.2



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: 0.787 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Tgt Ion: 43 Resp: 2819

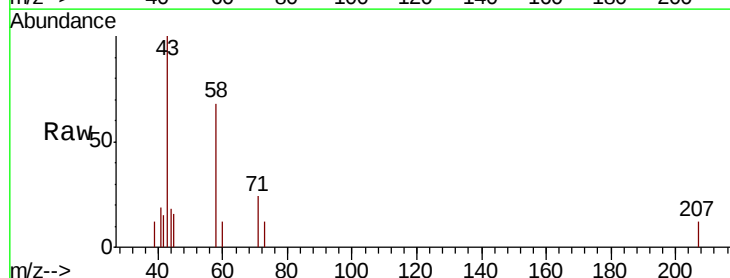
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

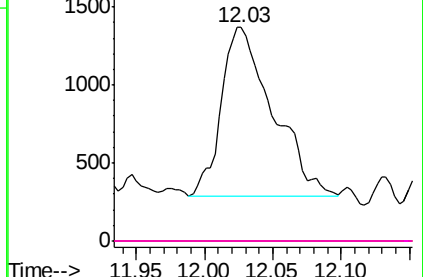
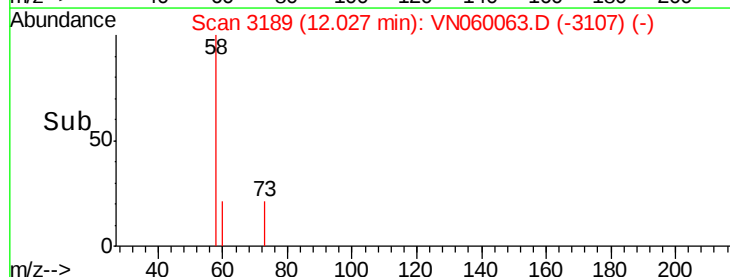


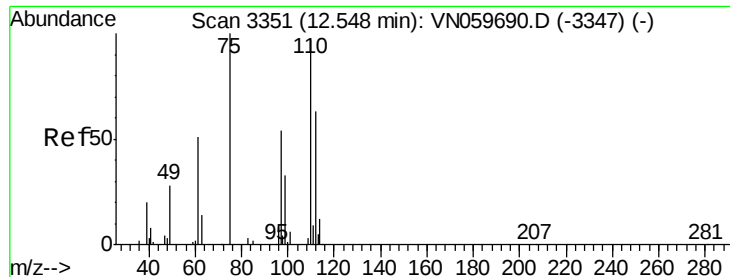
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.822 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060063.D

Acq: 11 Feb 2020 14:19

Instrument :

MSVOA_N

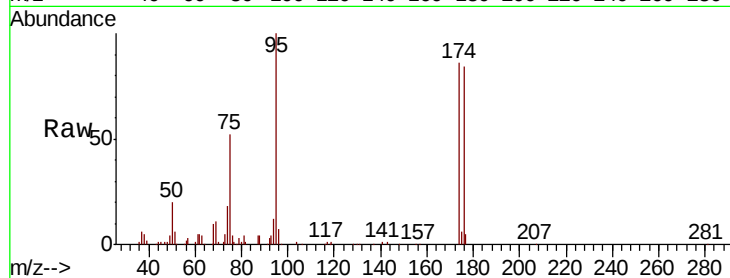
ClientSampled :

Tot Ion: 75 Resp: 67379

Ion Ratio Lower Upper

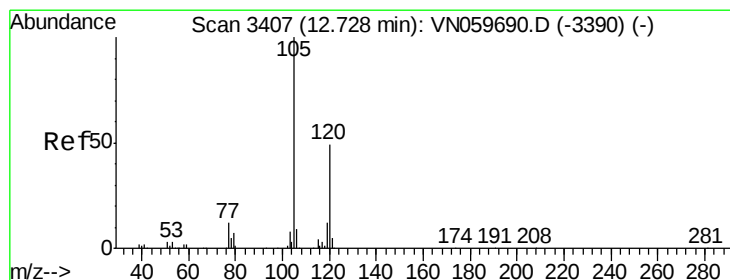
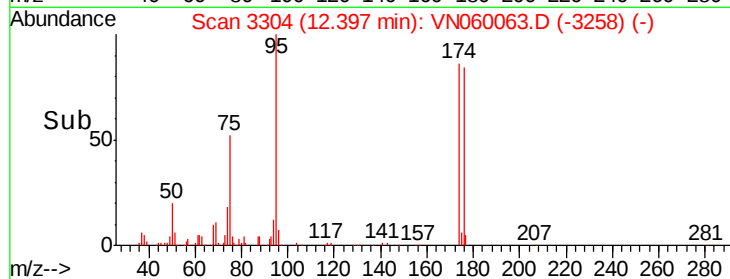
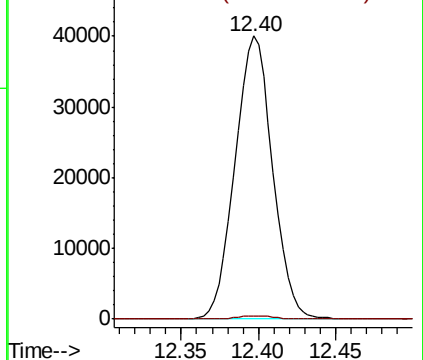
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.240 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060063.D

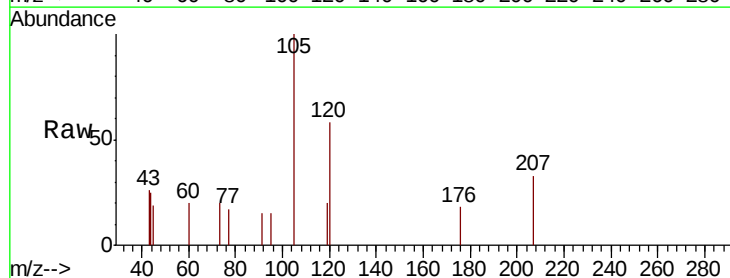
Acq: 11 Feb 2020 14:19

Tgt Ion: 105 Resp: 1861

Ion Ratio Lower Upper

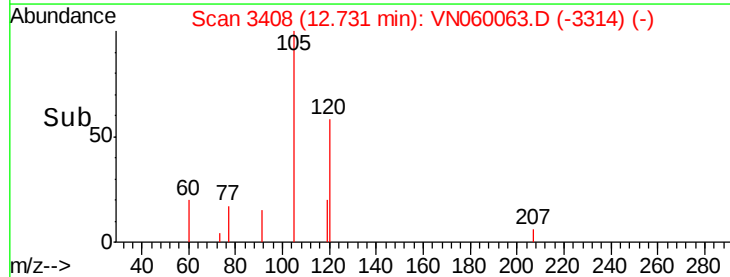
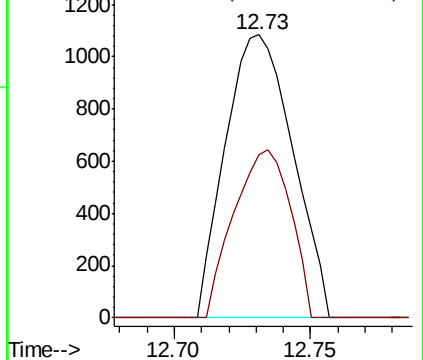
105 100

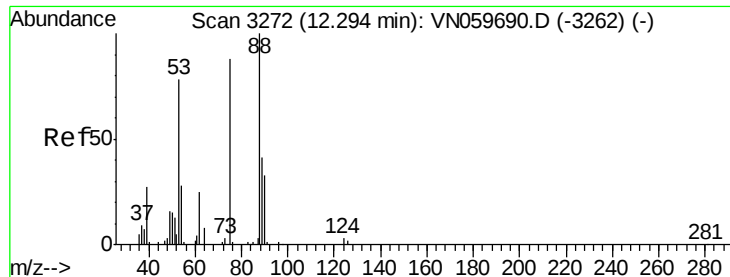
120 50.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

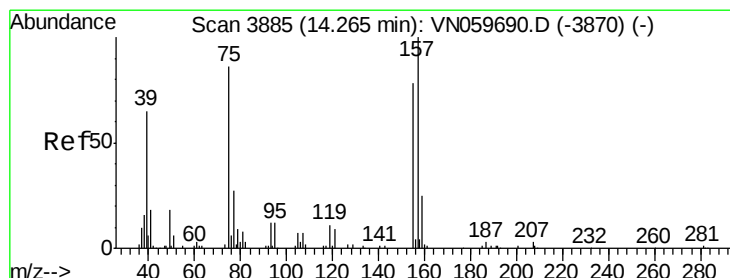
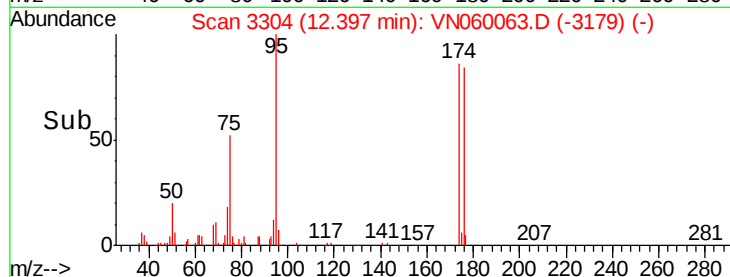
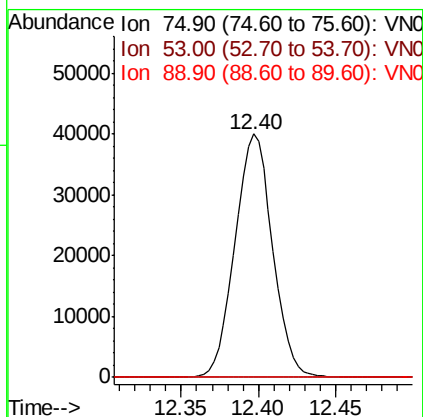
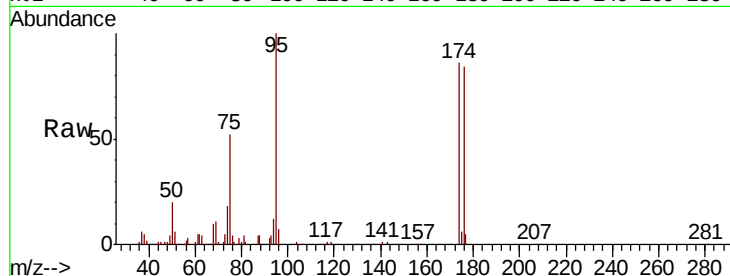




#81
trans-1,4-Dichloro-2-butene
Concen: 68.338 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 67379
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.37 min Scan# 3918
Delta R.T. 0.11 min
Lab File: VN060063.D
Acq: 11 Feb 2020 14:19

Tgt Ion: 75 Resp: 167
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

