

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059844.D
 Acq On : 24 Jan 2020 14:44
 Operator : JC/MD
 Sample : L1016-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:28:15 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

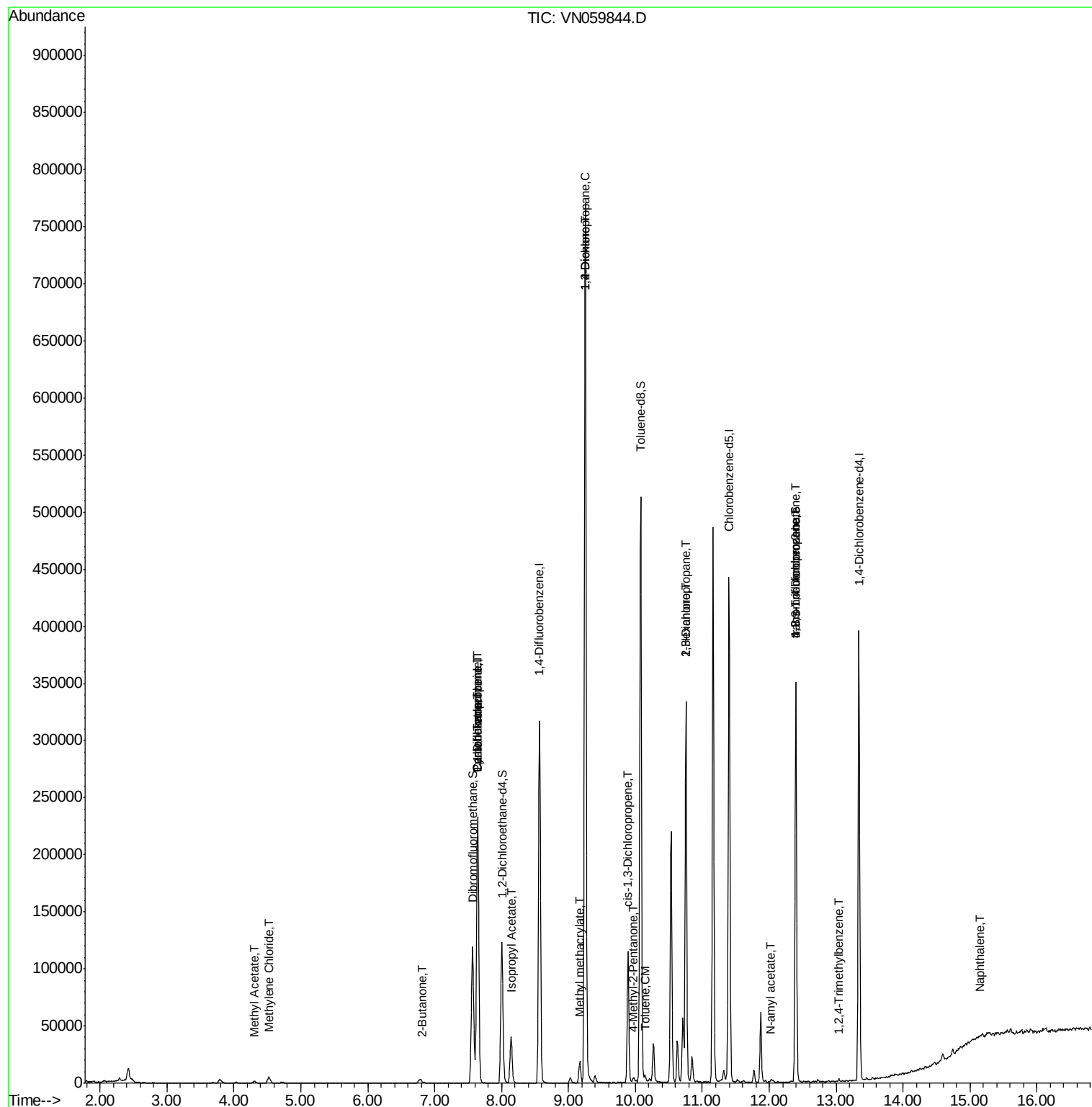
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	302159	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108788	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	106356	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	
35) Dibromofluoromethane	7.56	113	90841	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
50) Toluene-d8	10.08	98	354562	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
62) 4-Bromofluorobenzene	12.40	95	116840	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	
Target Compounds						
					Qvalue	
16) Acetone	3.79	43	5806	Below Cal		96
18) Methyl Acetate	4.29	43	1473	0.562	ug/l #	58
20) Methylene Chloride	4.52	84	4568	0.980	ug/l #	77
25) 2-Butanone	6.82	43	772	0.607	ug/l #	50
31) Cyclohexane	7.64	56	3789	1.141	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14154	5.379	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18480	6.456	ug/l #	15
43) Isopropyl Acetate	8.14	43	46416	10.934	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	784	0.404	ug/l #	44
48) Methyl methacrylate	9.17	41	2916	1.536	ug/l #	13
49) 1,4-Dioxane	9.25	88	60	1.726	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	3569	1.454	ug/l	90
52) Toluene	10.15	92	2862	0.577	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	22793	7.028	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3528	1.132	ug/l #	42
59) 2-Hexanone	10.75	43	46948	25.970	ug/l #	55
74) N-amyl acetate	12.03	43	3689	1.192	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60307	32.940	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60307	70.740	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	1810	0.273	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.28	75	238	Below Cal	#	6
95) Naphthalene	15.13	128	1484	0.250	ug/l #	69

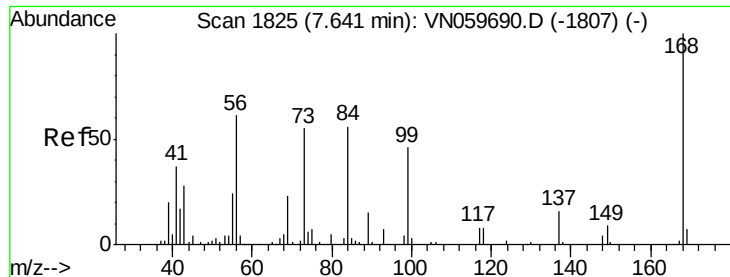
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059844.D

Acq: 24 Jan 2020 14:44

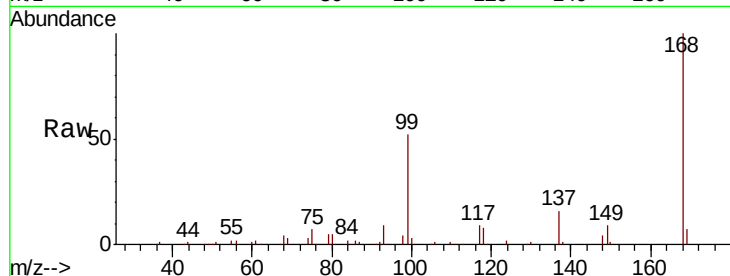
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 202185

Ion Ratio Lower Upper

168 100

99 52.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

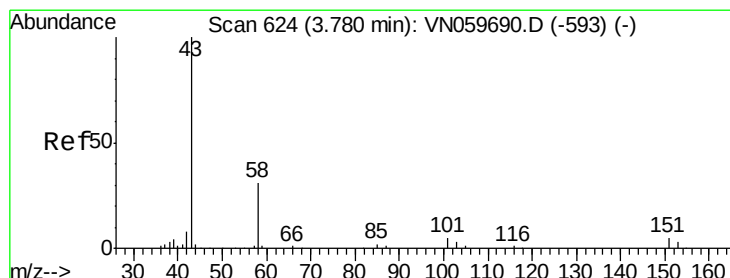
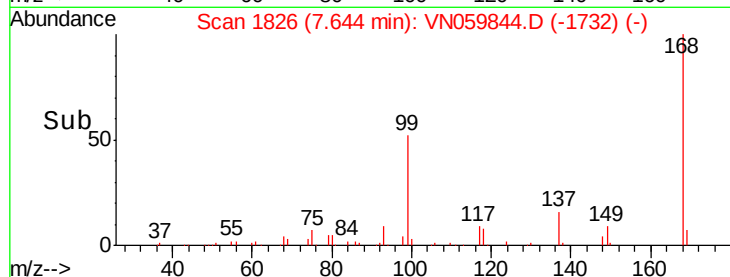
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN059844.D

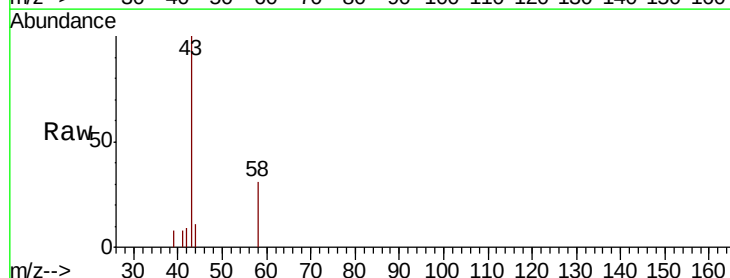
Acq: 24 Jan 2020 14:44

Tgt Ion: 43 Resp: 5806

Ion Ratio Lower Upper

43 100

58 31.4 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

2000

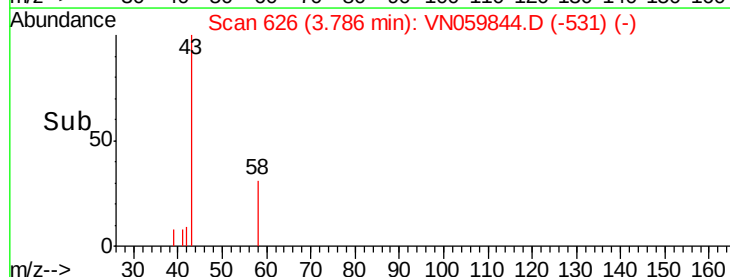
1500

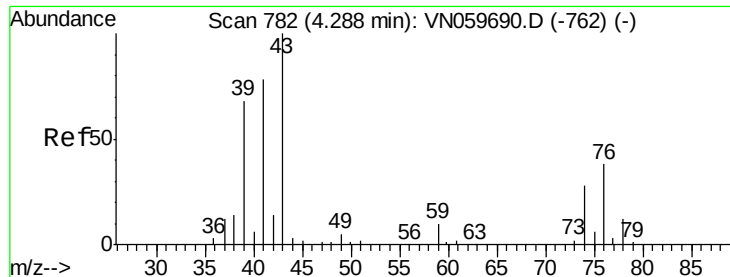
1000

500

0

Time--> 3.75 3.80 3.85

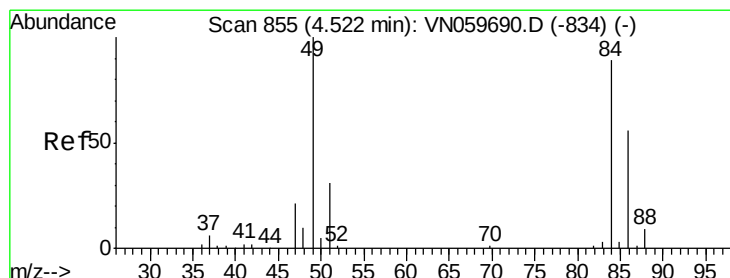
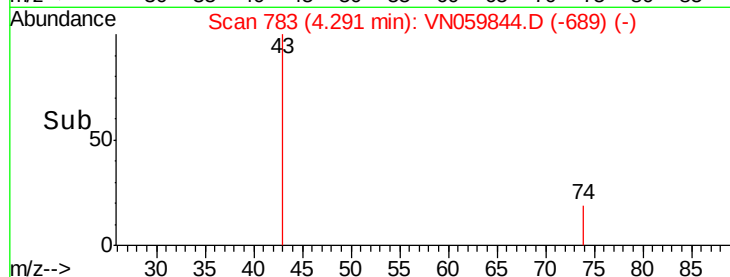
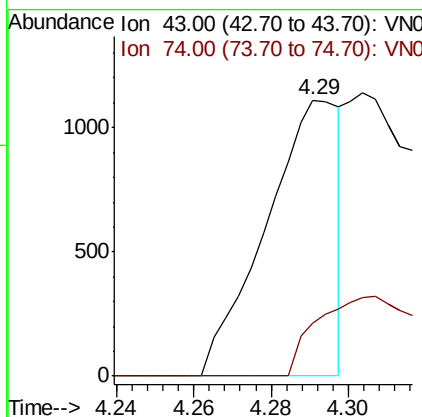
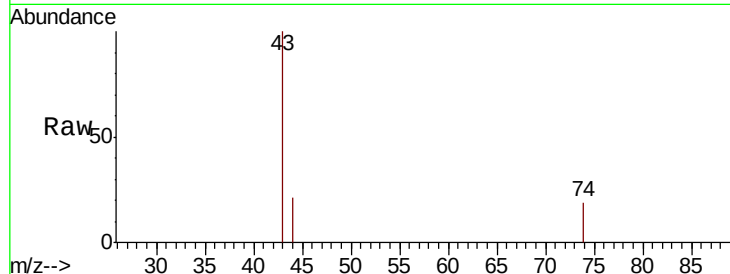




#18
Methyl Acetate
Concen: 0.562 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

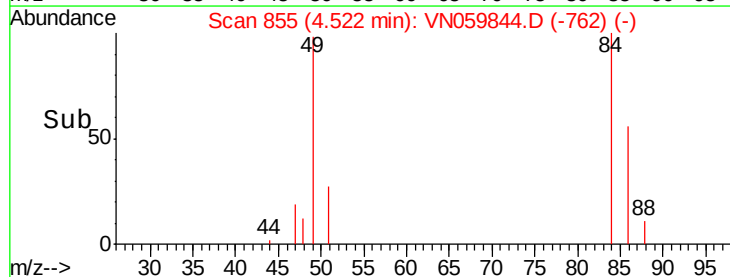
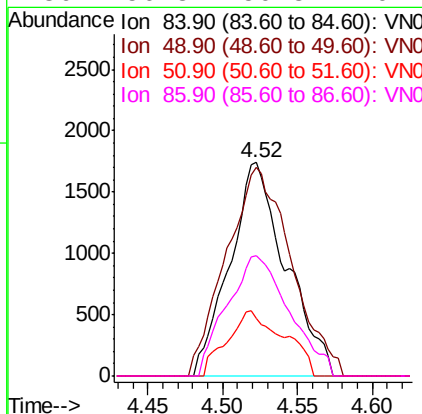
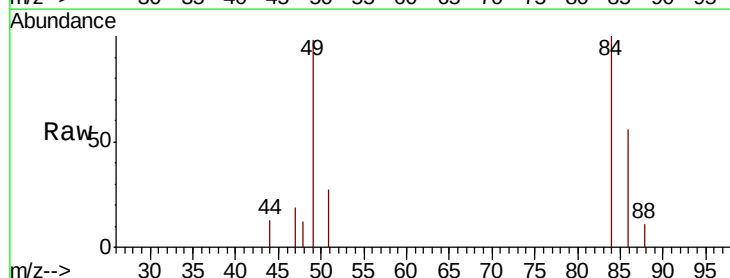
Instrument :
MSVOA_N
ClientSampled :

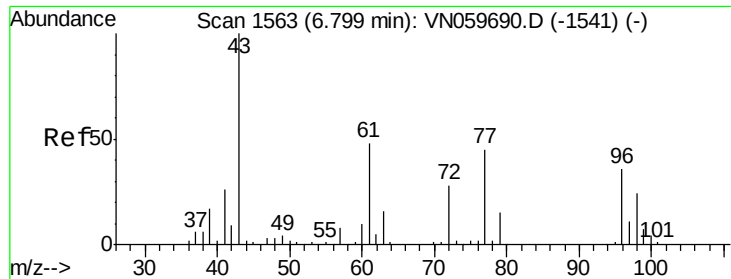
Tot Ion: 43 Resp: 1473
Ion Ratio Lower Upper
43 100
74 42.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.980 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion: 84 Resp: 4568
Ion Ratio Lower Upper
84 100
49 97.7 106.6 160.0#
51 27.3 31.9 47.9#
86 56.3 50.8 76.2

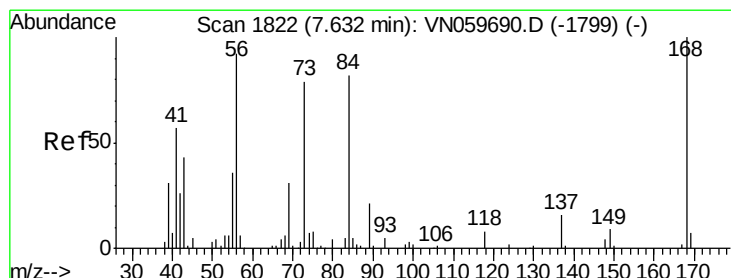
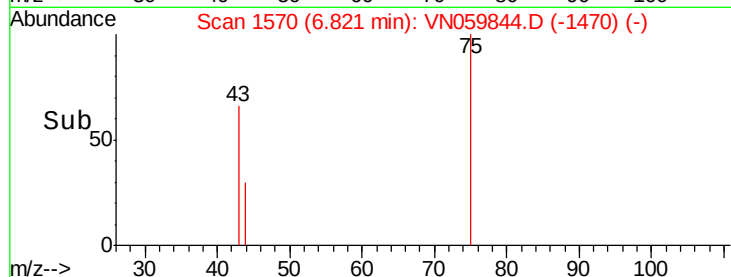
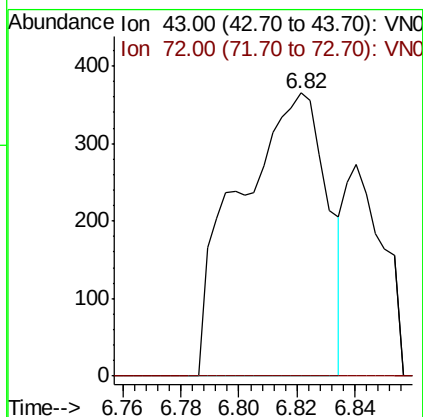
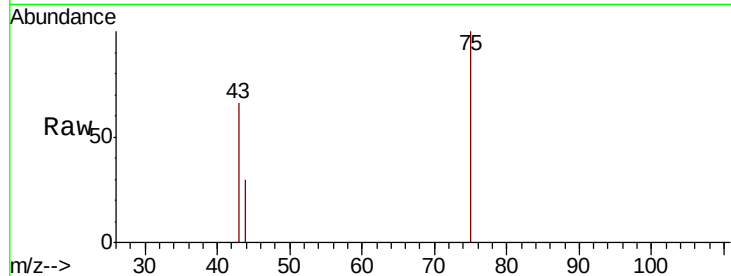




#25
2-Butanone
Concen: 0.607 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

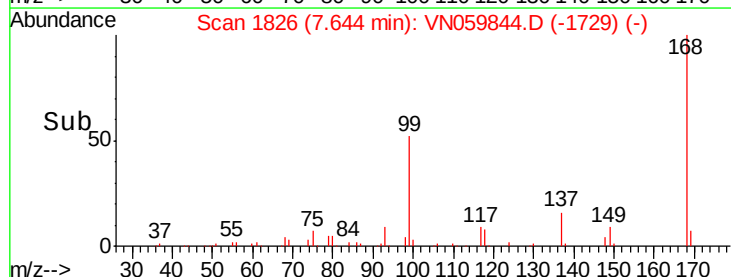
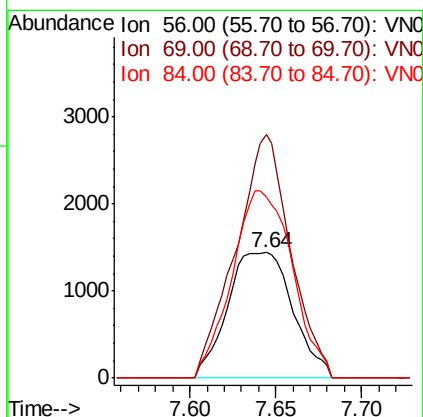
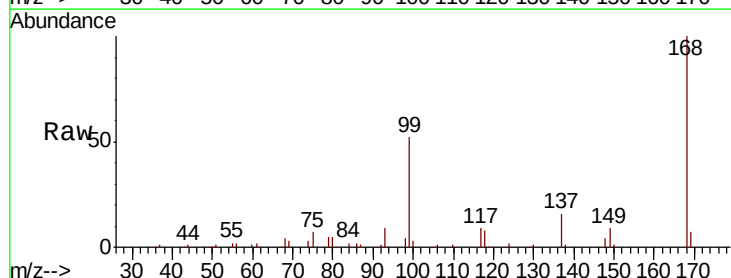
Instrument :
MSVOA_N
ClientSampled :

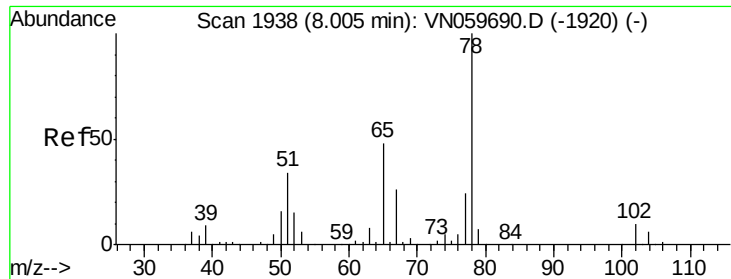
Tot Ion: 43 Resp: 772
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.141 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion: 56 Resp: 3789
Ion Ratio Lower Upper
56 100
69 194.1 26.5 39.7#
84 144.0 65.3 97.9#

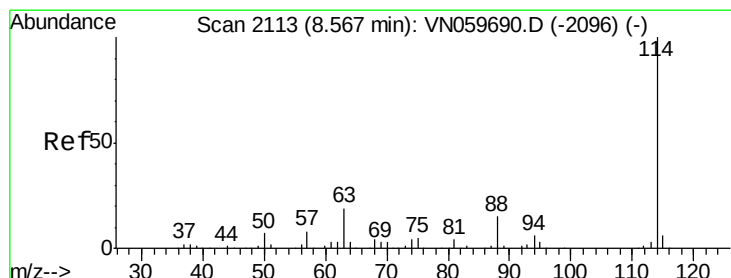
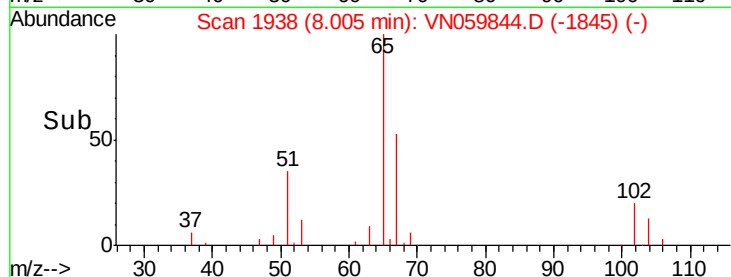
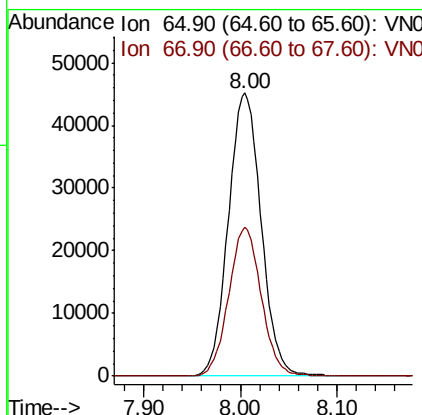
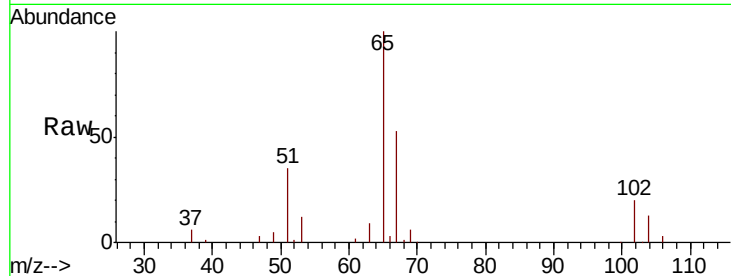




#33
 1,2-Dichloroethane-d4
 Concen: 47.368 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

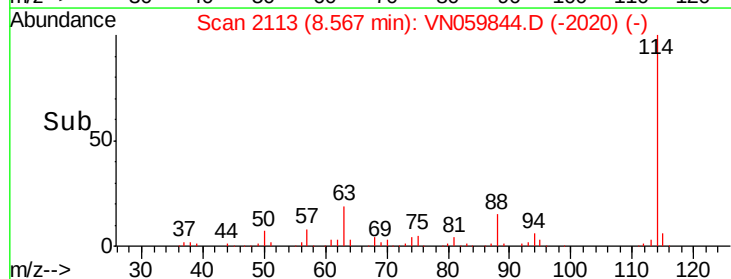
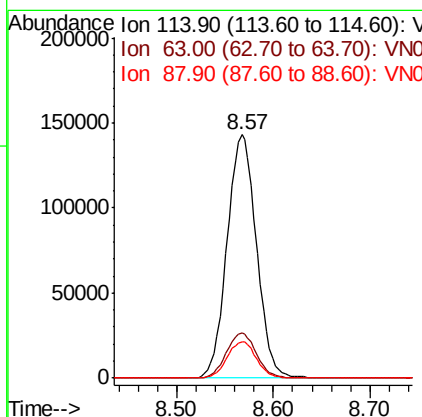
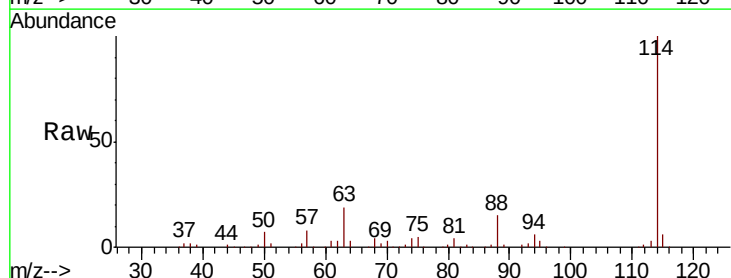
Instrument :
 MSVOA_N
 ClientSampled :

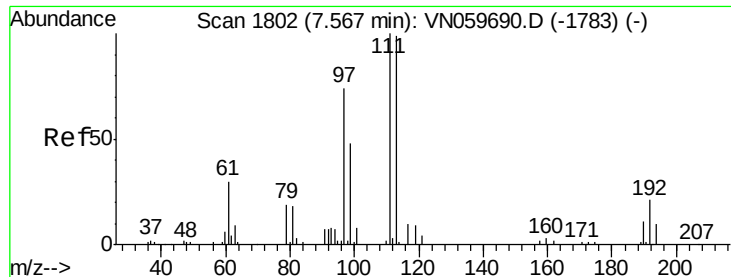
Tot Ion: 65 Resp: 106356
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

Tgt Ion: 114 Resp: 302159
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 14.7 0.0 31.4

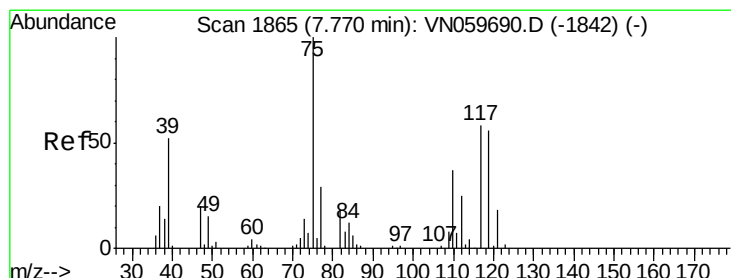
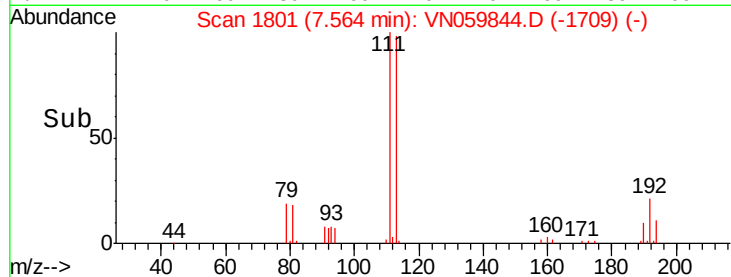
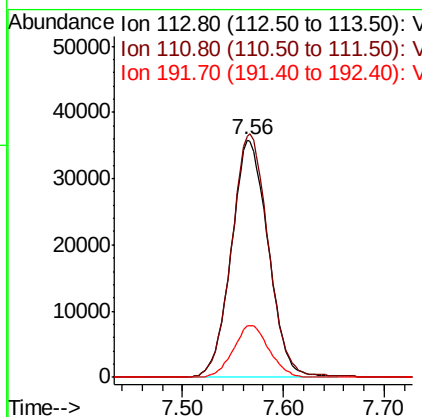
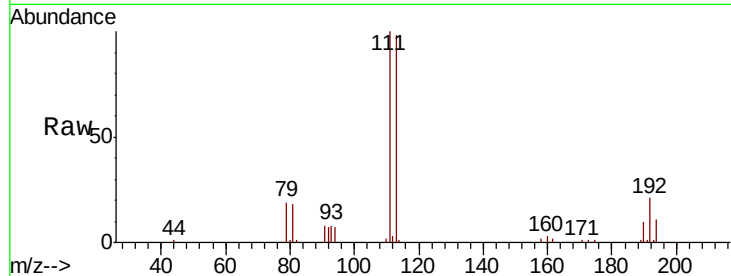




#35
 Dibromofluoromethane
 Concen: 50.414 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

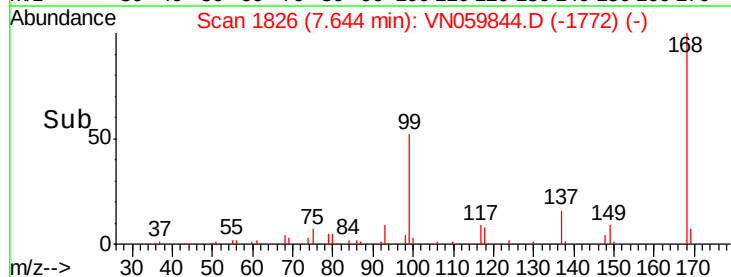
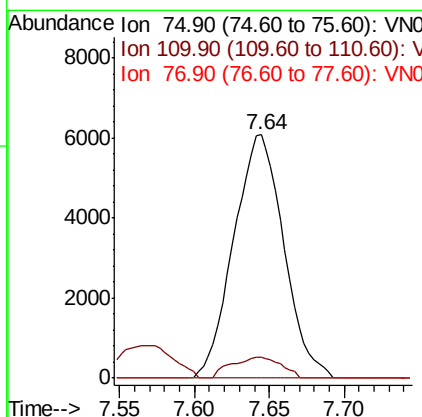
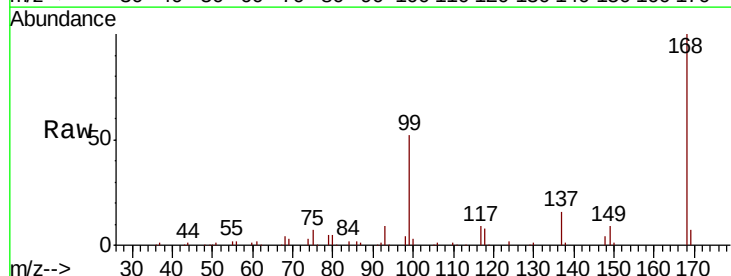
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 MSVOA_N
 ClientSampleId :

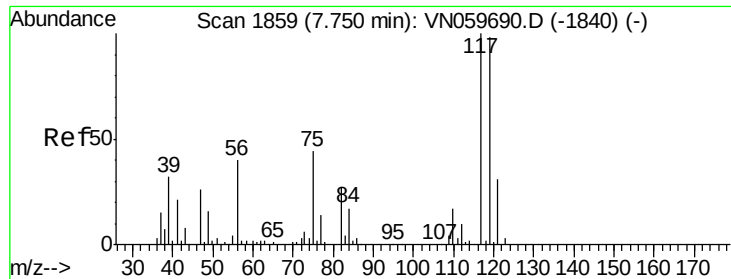
Tot Ion:113 Resp: 90841
 Ion Ratio Lower Upper
 113 100
 111 101.6 83.5 125.3
 192 21.1 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.379 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

Tgt Ion: 75 Resp: 14154
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.456 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059844.D

Acq: 24 Jan 2020 14:44

Instrument :

MSVOA_N

ClientSampleId :

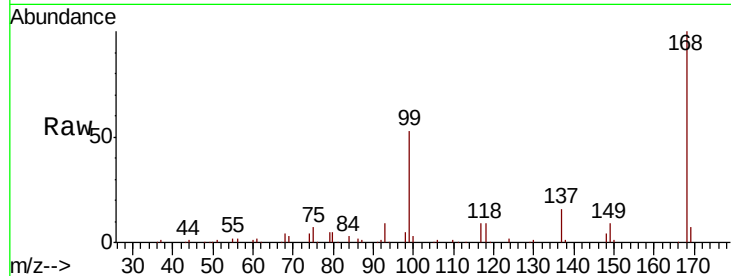
Tot Ion:117 Resp: 18480

Ion Ratio Lower Upper

117 100

119 4.4 76.5 114.7#

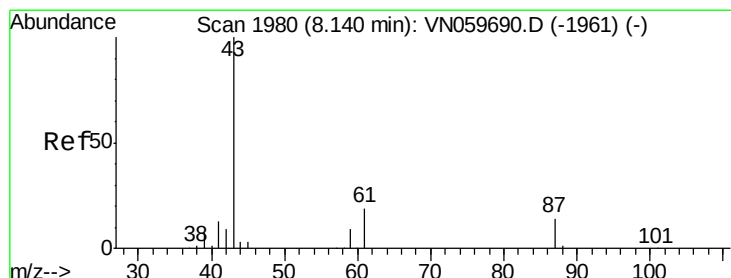
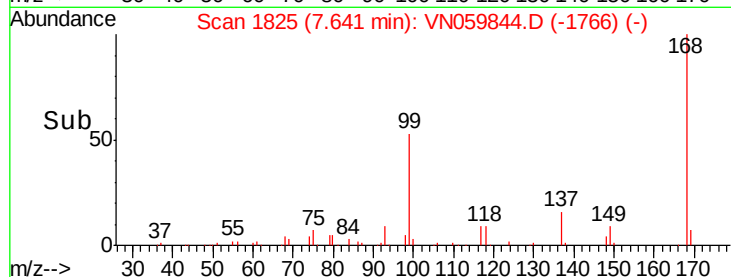
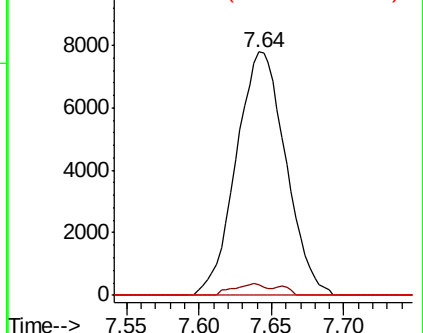
121 0.0 25.1 37.7#



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: 10.934 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059844.D

Acq: 24 Jan 2020 14:44

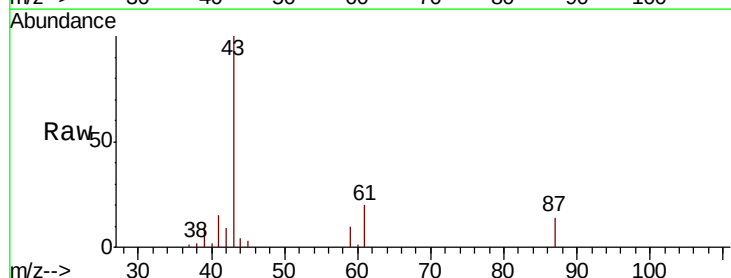
Tgt Ion: 43 Resp: 46416

Ion Ratio Lower Upper

43 100

61 21.1 20.2 30.2

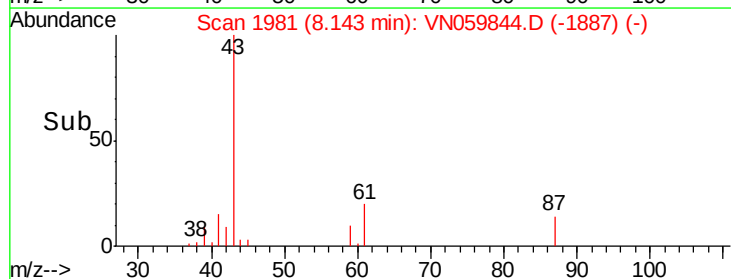
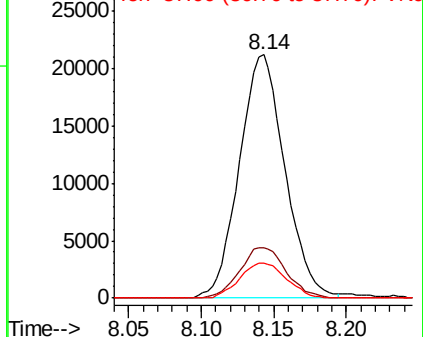
87 14.7 9.5 14.3#

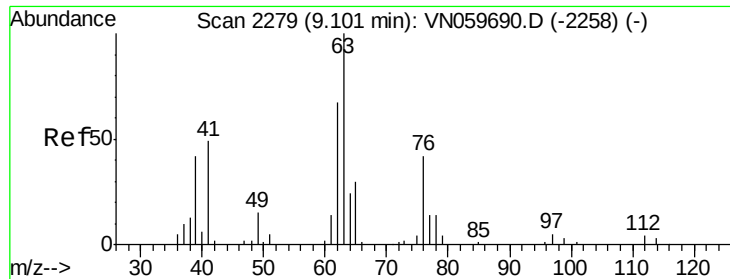


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

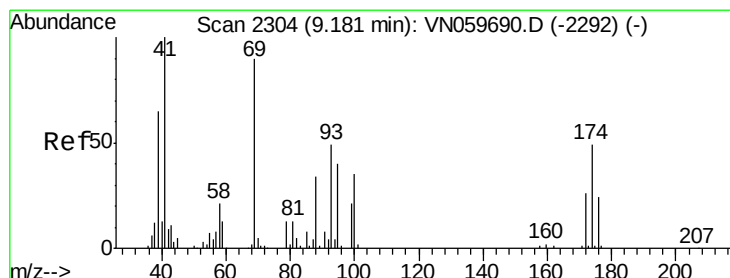
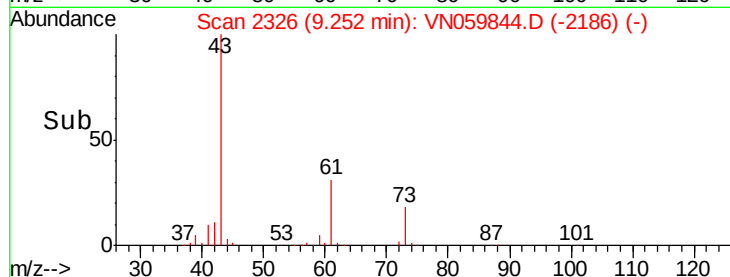
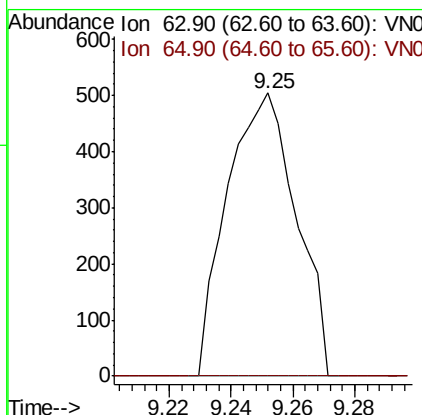
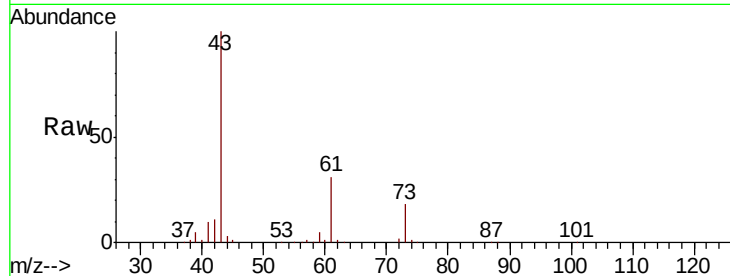




#45
 1,2-Dichloropropane
 Concen: 0.404 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

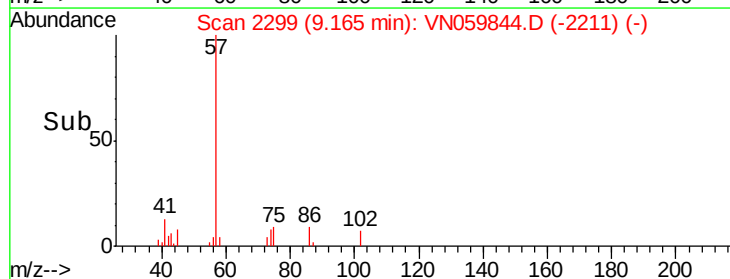
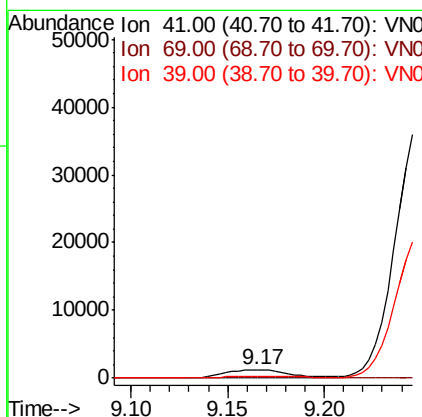
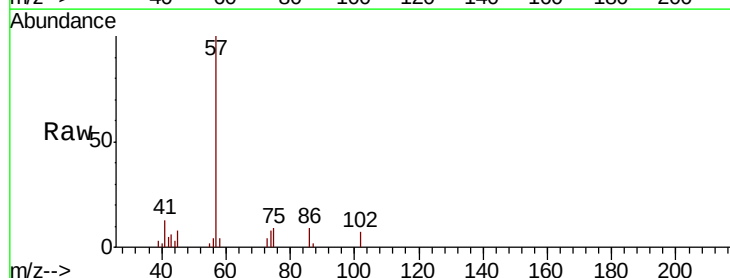
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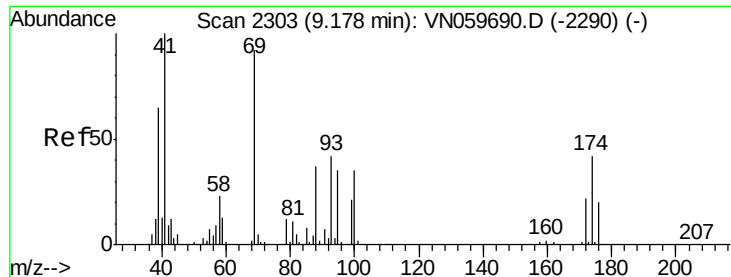
Tot Ion: 63 Resp: 784
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.536 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

Tgt Ion: 41 Resp: 2916
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#49

1,4-Dioxane

Concen: 1.726 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.07 min

Lab File: VN059844.D

Acq: 24 Jan 2020 14:44

Instrument :

MSVOA_N

ClientSampled :

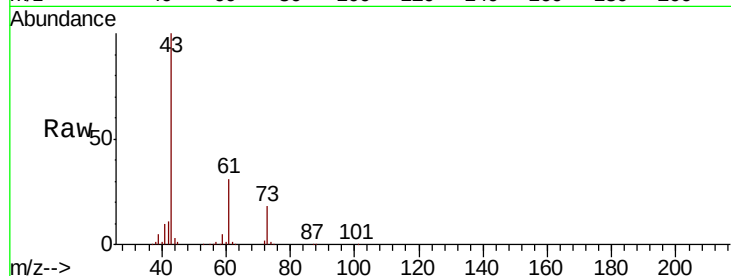
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 1247776.7 29.7 44.5#

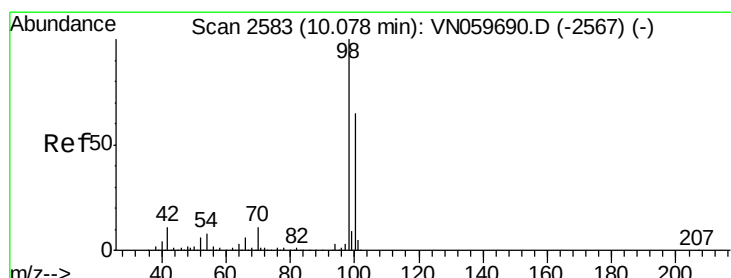
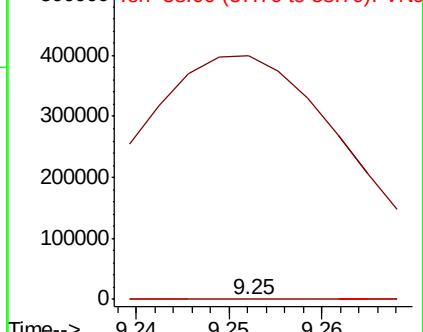
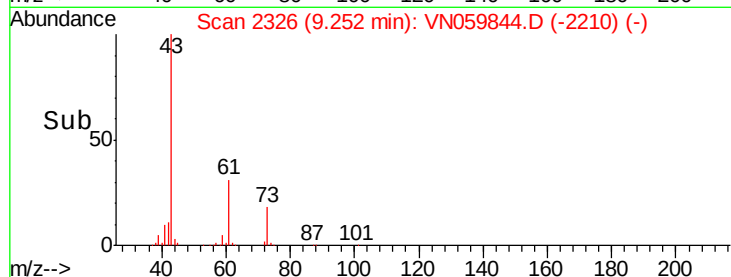
58 5186.7 56.6 85.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.786 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059844.D

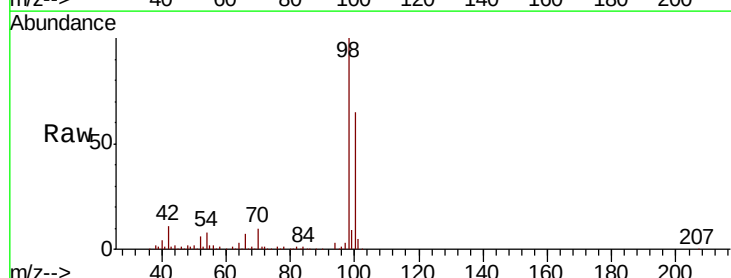
Acq: 24 Jan 2020 14:44

Tgt Ion: 98 Resp: 354562

Ion Ratio Lower Upper

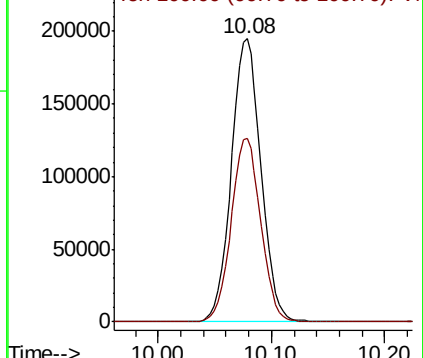
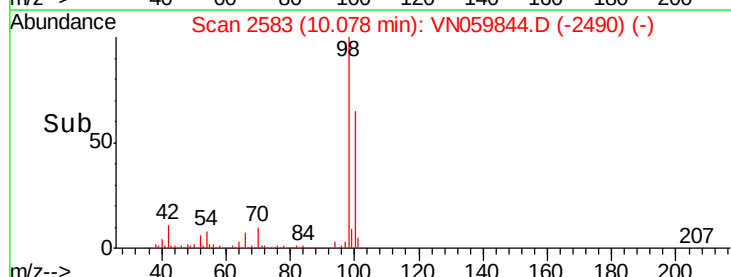
98 100

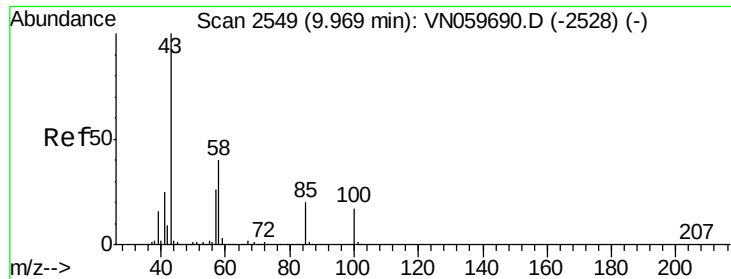
100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

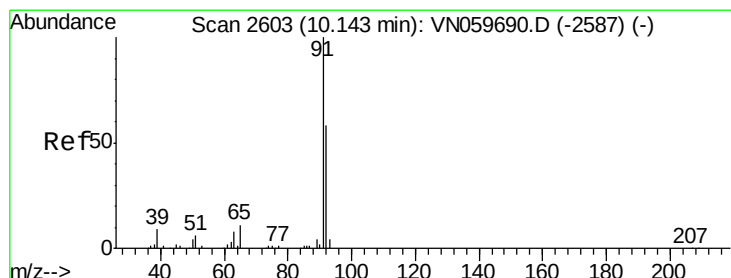
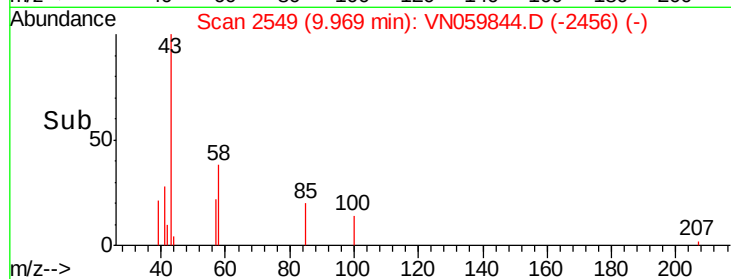
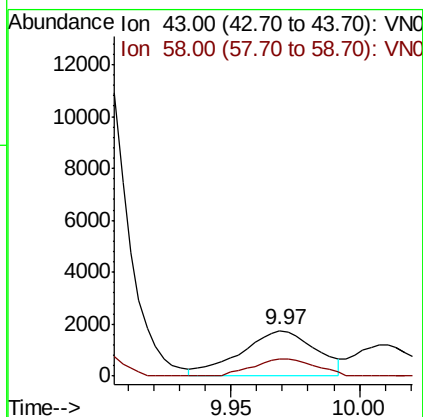
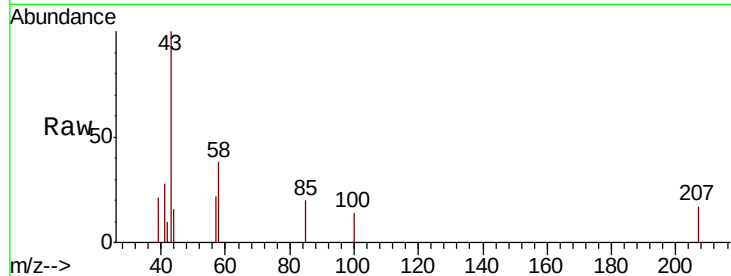




#51
4-Methyl-2-Pentanone
Concen: 1.454 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

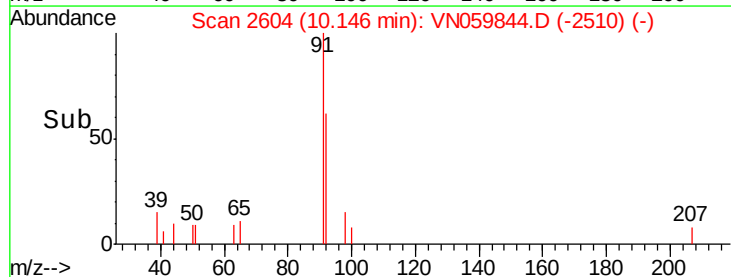
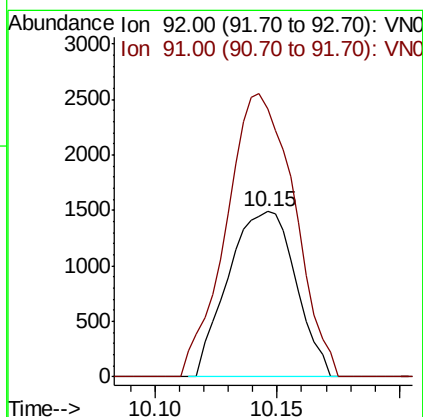
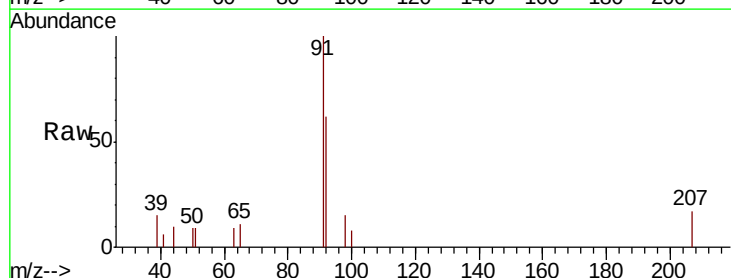
Instrument :
MSVOA_N
ClientSampleId :

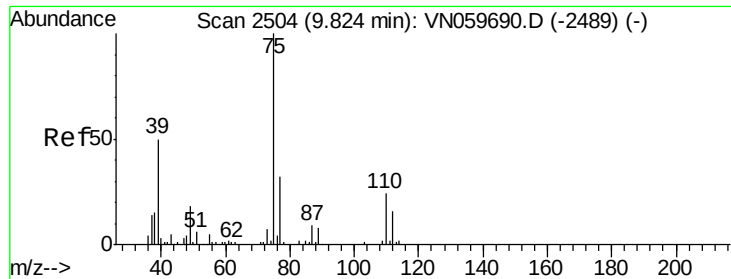
Tot Ion: 43 Resp: 3569
Ion Ratio Lower Upper
43 100
58 31.3 29.8 44.8



#52
Toluene
Concen: 0.577 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion: 92 Resp: 2862
Ion Ratio Lower Upper
92 100
91 172.6 140.4 210.6

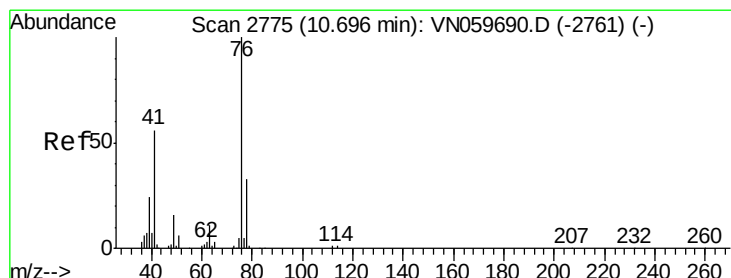
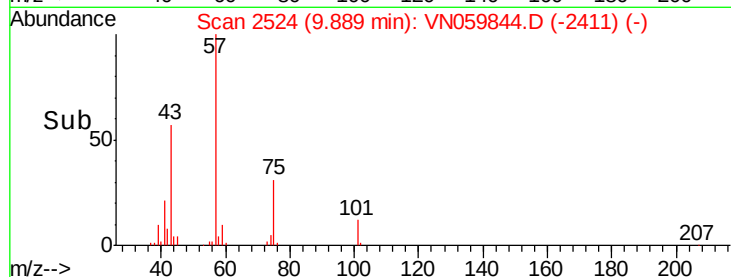
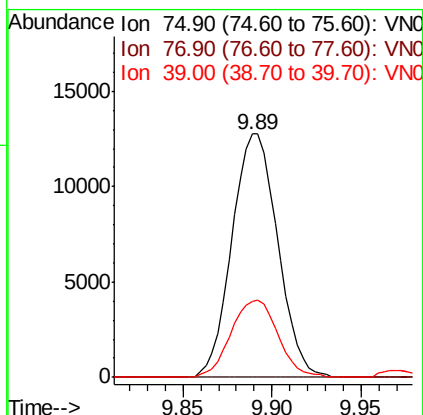
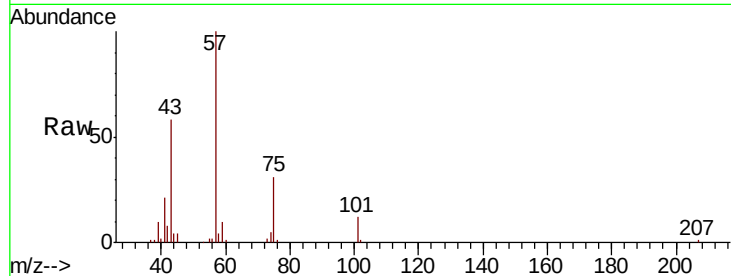




#54
 cis-1,3-Dichloropropene
 Concen: 7.028 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

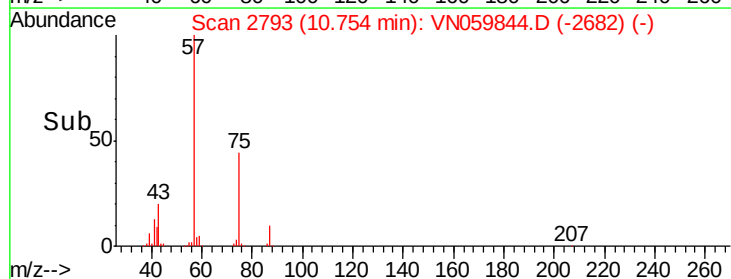
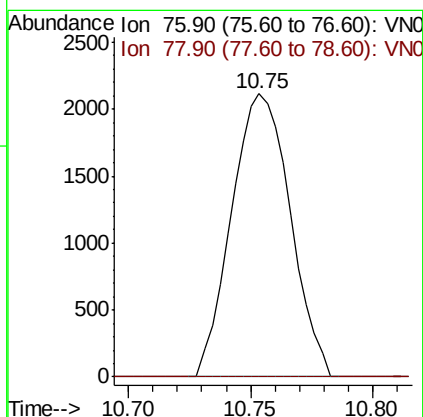
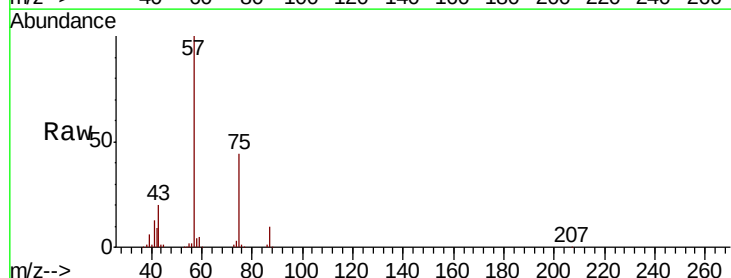
Instrument :
 MSVOA_N
 ClientSampleId :

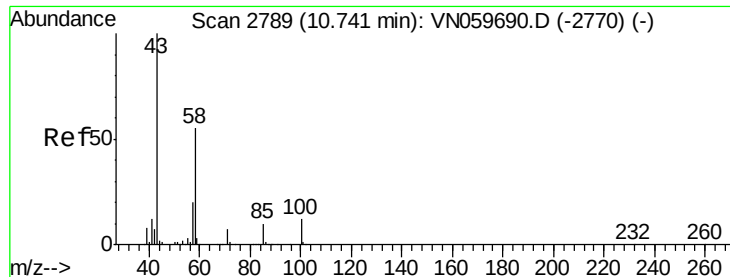
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.1	37.7#
39	31.0	46.1	69.1#



#57
 1,3-Dichloropropane
 Concen: 1.132 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

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

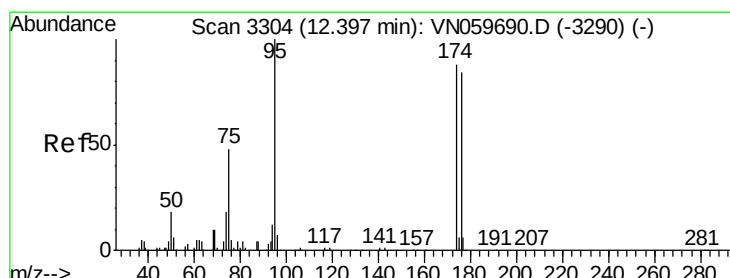
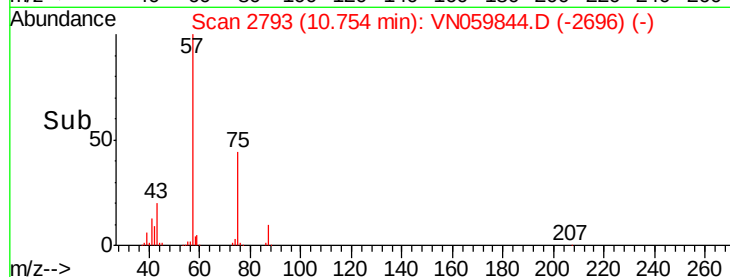
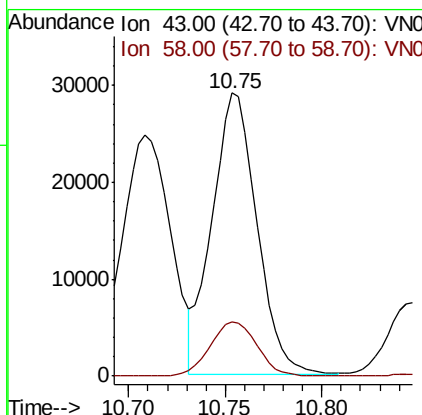
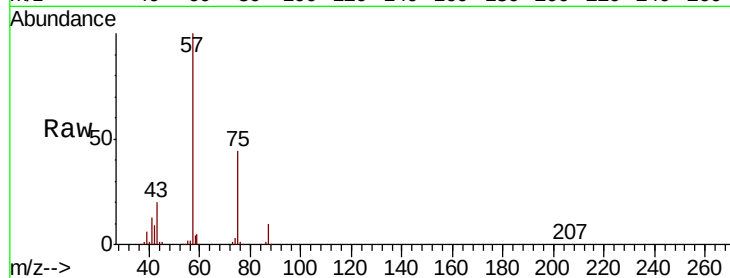




#59
2-Hexanone
Concen: 25.970 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

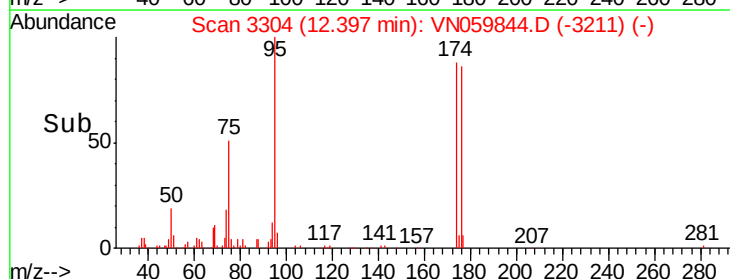
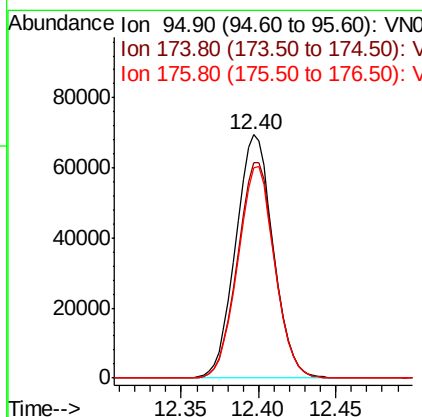
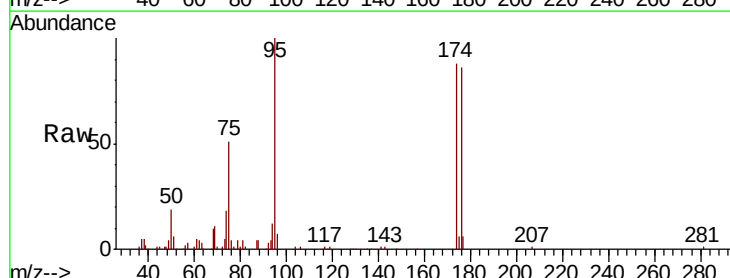
Instrument :
MSVOA_N
ClientSampleId :

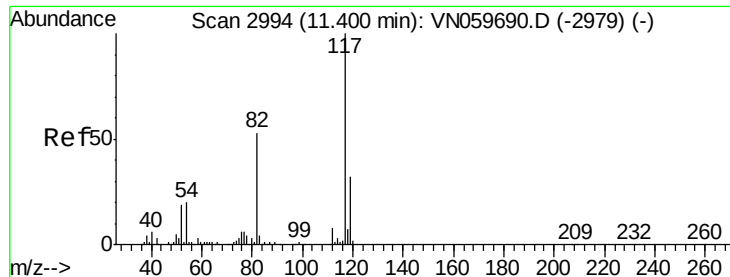
Tot Ion: 43 Resp: 46948
Ion Ratio Lower Upper
43 100
58 20.1 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 46.424 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion: 95 Resp: 116840
Ion Ratio Lower Upper
95 100
174 88.5 0.0 151.4
176 85.8 0.0 146.0

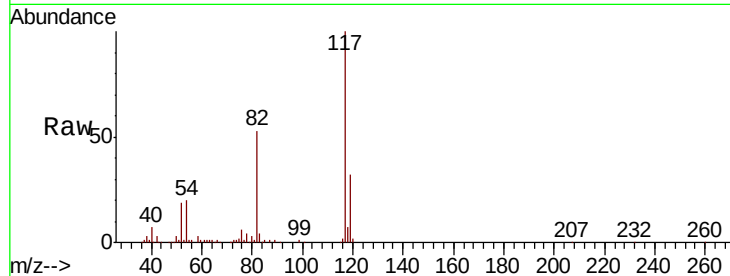




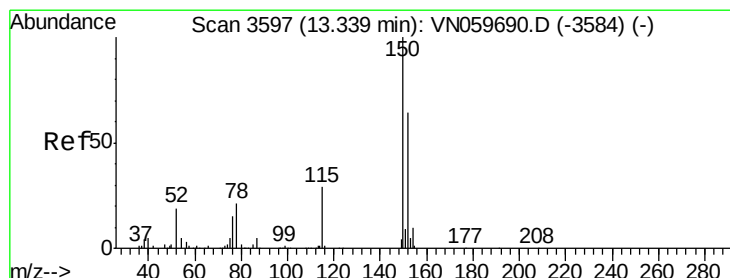
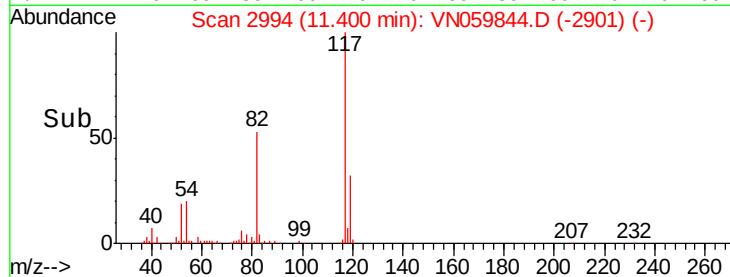
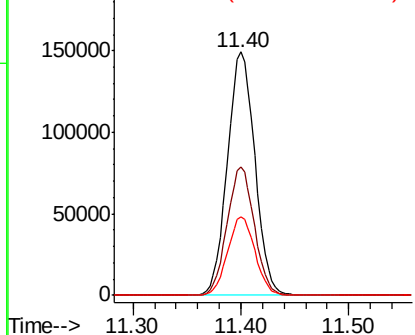
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.9	68.9
119	32.4	25.5	38.3

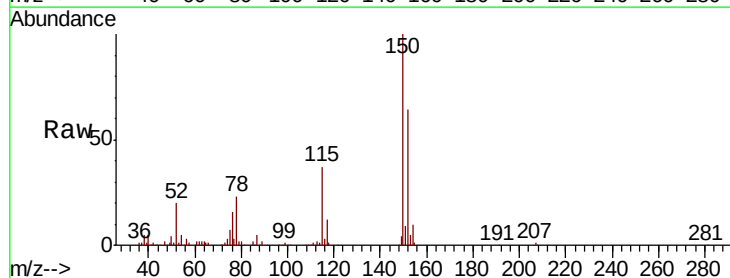


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

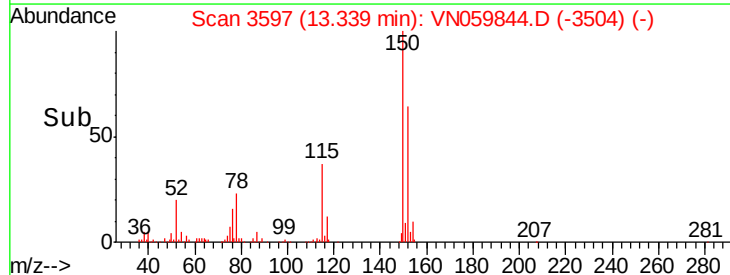
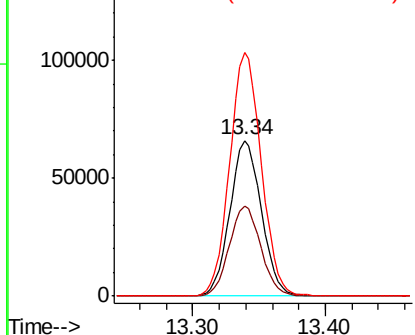


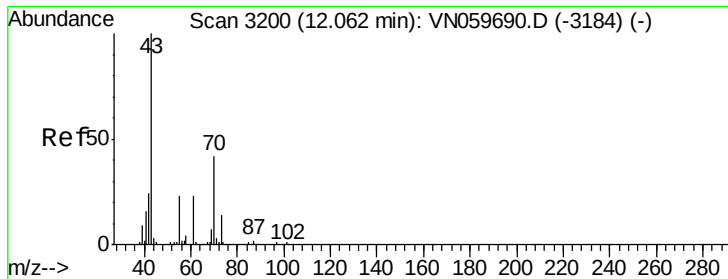
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	30.3	90.9
150	157.3	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

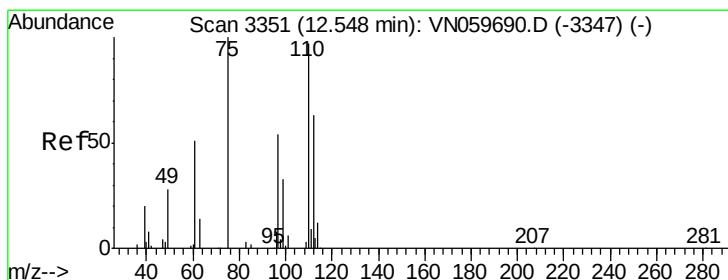
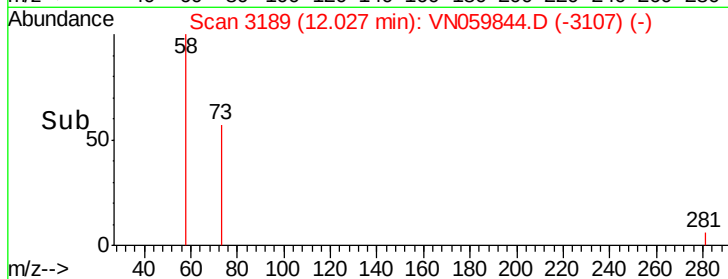
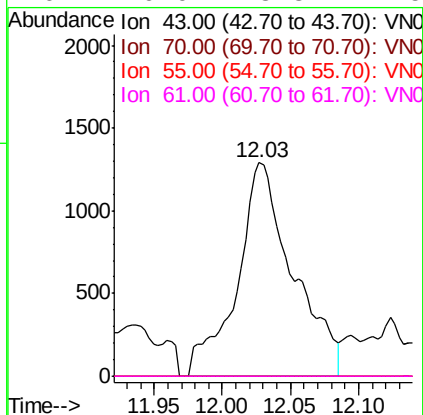
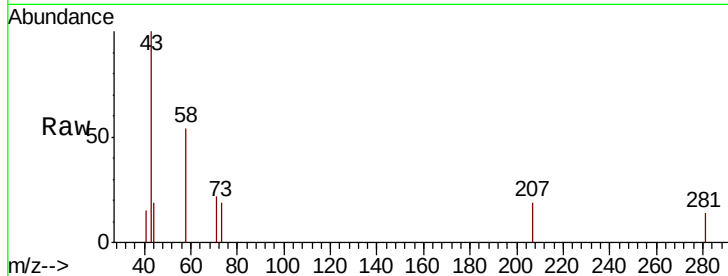




#74
N-amvl acetate
Concen: 1.192 ug/l
RT: 12.03 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

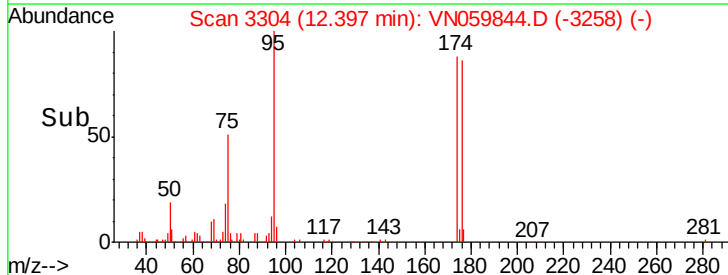
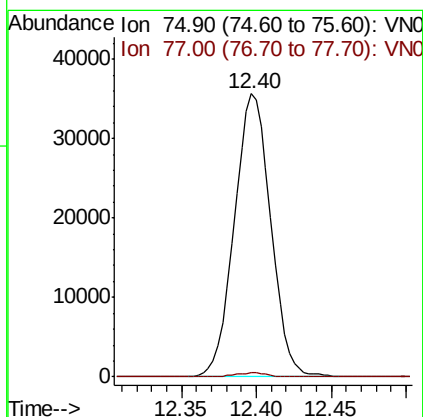
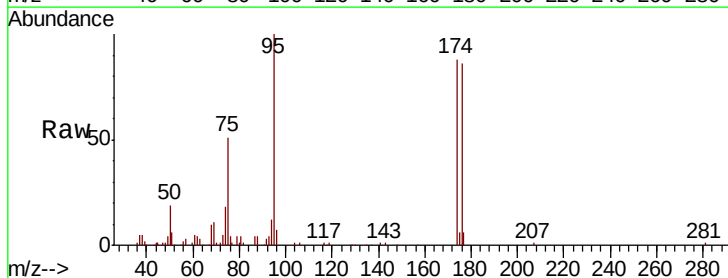
Instrument :
MSVOA_N
ClientSampleId :

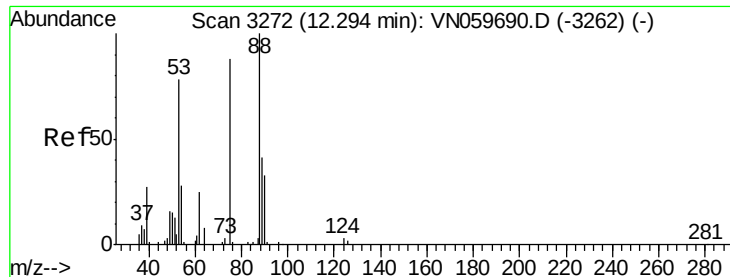
Tot Ion: 43 Resp: 3689
Ion Ratio Lower Upper
43 100
70 0.0 31.3 46.9#
55 0.0 19.8 29.6#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 32.940 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN059844.D
Acq: 24 Jan 2020 14:44

Tgt Ion: 75 Resp: 60307
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.740 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059844.D

Acq: 24 Jan 2020 14:44

Instrument :

MSVOA_N

ClientSampleId :

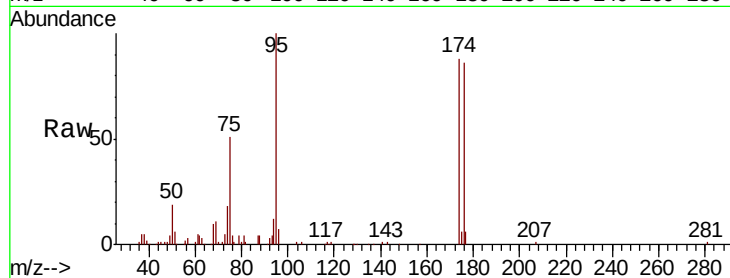
Tot Ion: 75 Resp: 60307

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

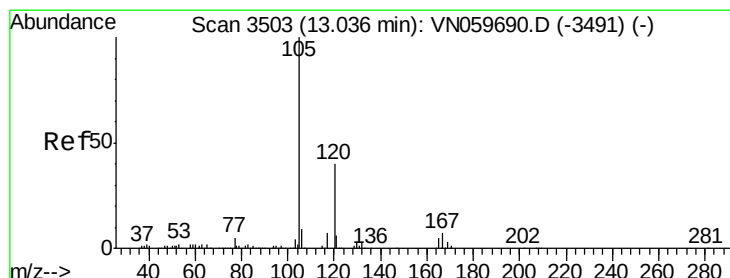
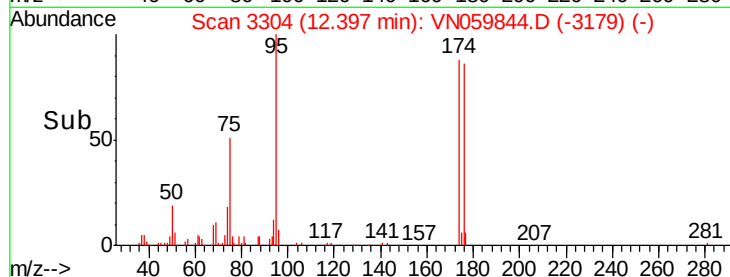
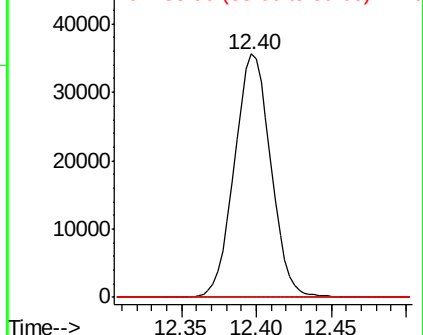
89 0.0 35.4 53.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.273 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN059844.D

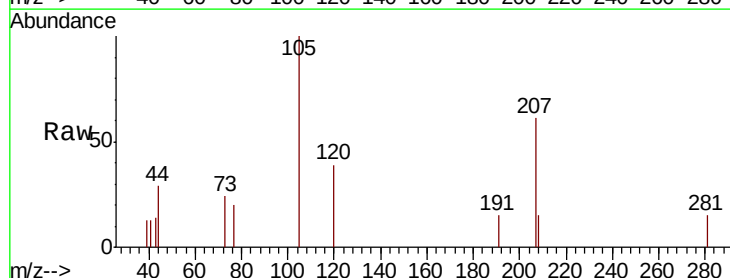
Acq: 24 Jan 2020 14:44

Tgt Ion: 105 Resp: 1810

Ion Ratio Lower Upper

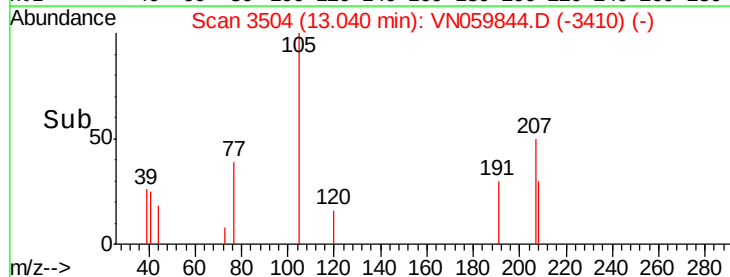
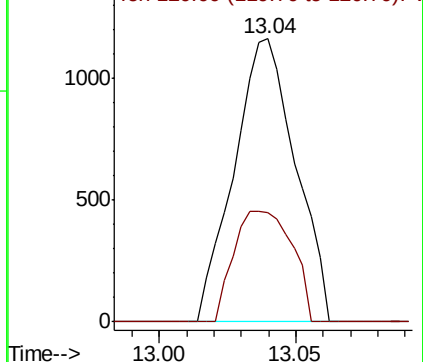
105 100

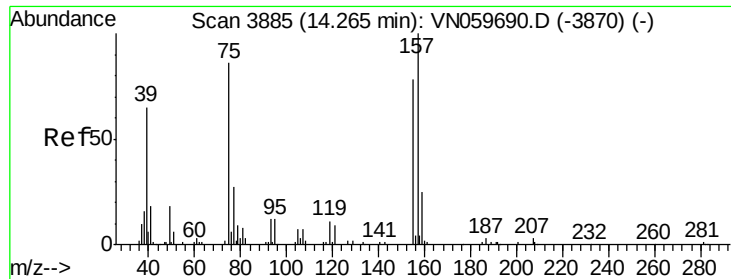
120 37.3 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

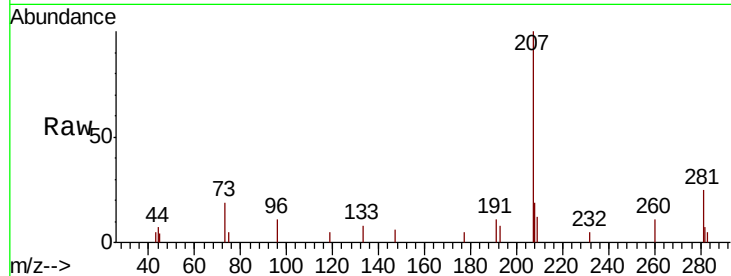




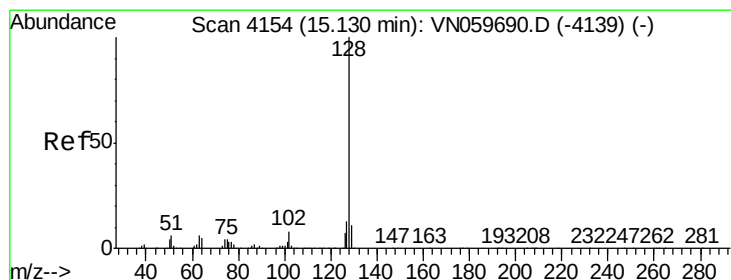
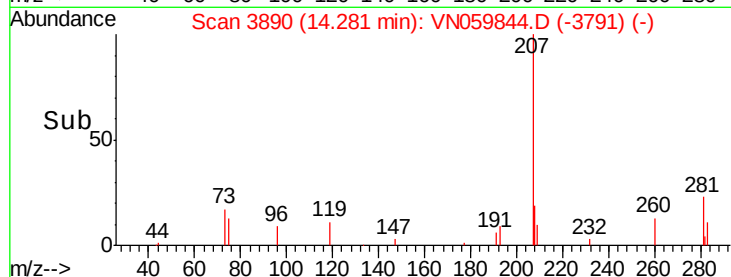
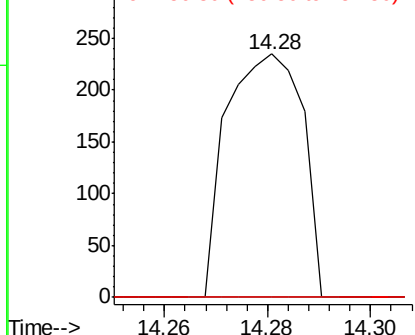
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.28 min Scan# 3890
 Delta R.T. 0.02 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 238
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#

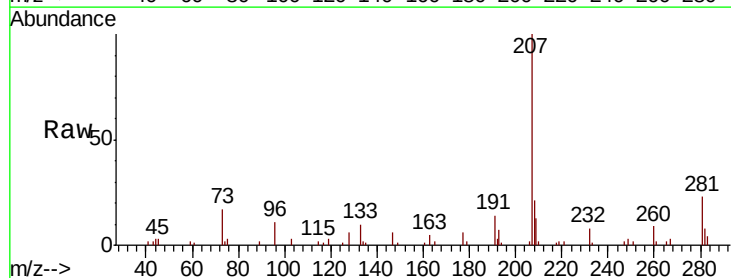


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3870) (-)
 Ion 154.80 (154.50 to 155.50): VN059690.D (-3870) (-)
 Ion 156.80 (156.50 to 157.50): VN059690.D (-3870) (-)



#95
 Naphthalene
 Concen: 0.250 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059844.D
 Acq: 24 Jan 2020 14:44

Tgt Ion: 128 Resp: 1484
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN059690.D (-4139) (-)
 Ion 127.00 (126.70 to 127.70): VN059690.D (-4139) (-)
 Ion 129.00 (128.70 to 129.70): VN059690.D (-4139) (-)

