

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051992.D
 Acq On : 24 Oct 2018 17:07
 Operator : MD\SY
 Sample : PB114120ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:48:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1087644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1570533	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1500808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	670215	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	569359	58.78	ug/l	0.00
Spiked Amount			Recovery	=	117.56%	
35) Dibromofluoromethane	7.59	113	587839	58.66	ug/l	0.00
Spiked Amount			Recovery	=	117.32%	
50) Toluene-d8	10.09	98	2163835	59.75	ug/l	0.00
Spiked Amount			Recovery	=	119.50%	
62) 4-Bromofluorobenzene	12.40	95	692521	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	

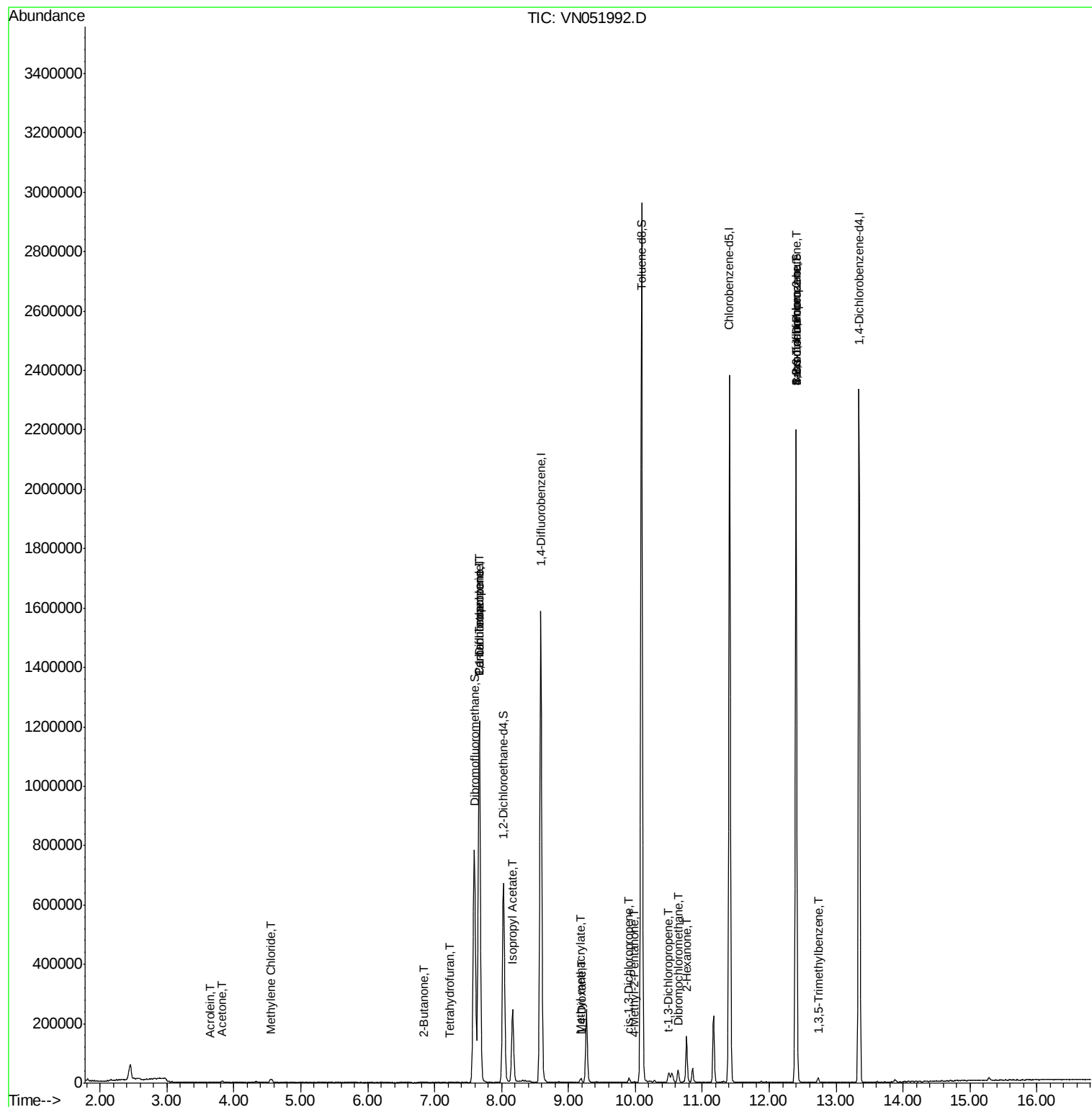
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.65	56	134	37.667	ug/l #	41
16) Acetone	3.82	43	8609	5.394	ug/l	96
18) Methyl Acetate	4.32	43	2864	Below Cal	#	32
20) Methylene Chloride	4.54	84	4271	0.456	ug/l #	89
25) 2-Butanone	6.84	43	925	0.407	ug/l #	81
29) Tetrahydrofuran	7.23	42	554	0.359	ug/l #	85
31) Cyclohexane	7.67	56	17207	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	63980	5.311	ug/l #	47
37) Ethyl Acetate	6.96	43	64	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	94612	6.841	ug/l #	16
43) Isopropyl Acetate	8.17	43	275283	27.284	ug/l	99
48) Methyl methacrylate	9.18	41	6272	1.286	ug/l #	11
49) 1,4-Dioxane	9.20	88	37	0.414	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	1353	0.244	ug/l	88
53) t-1,3-Dichloropropene	10.48	75	72	1.250	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	2756	0.214	ug/l #	70
59) 2-Hexanone	10.76	43	19632	5.265	ug/l #	51
60) Dibromochloromethane	10.64	129	30	1.980	ug/l #	11
71) Bromoform	12.40	173	5679	4.346	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	336067	48.544	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7056	0.207	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	336067	152.642	ug/l #	12

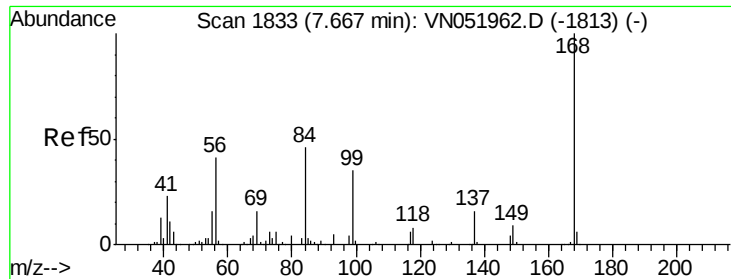
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

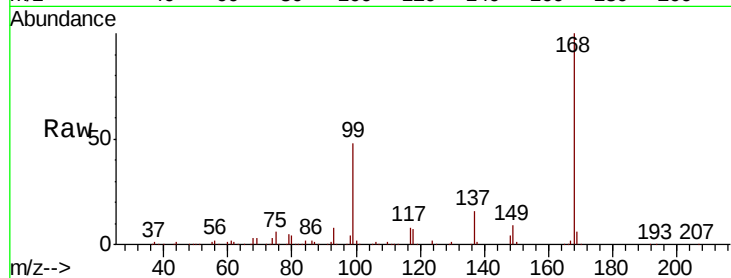
ClientSampleId :

Tot Ion:168 Resp: 1087644

Ion Ratio Lower Upper

168 100

99 47.8 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051992.D

Ion 98.90 (98.60 to 99.60): VN051992.D

7.67

500000

400000

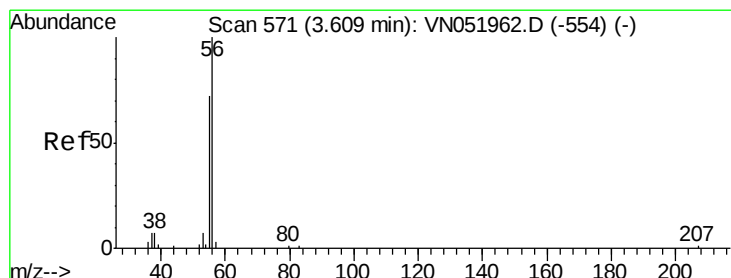
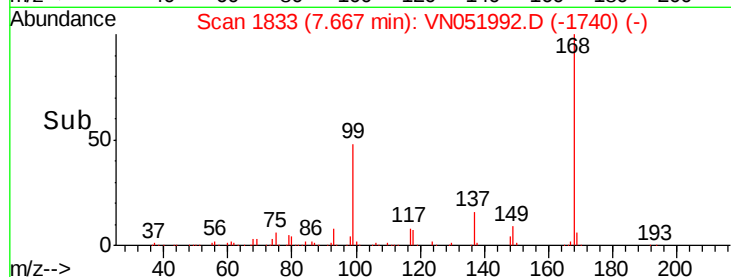
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.667 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.04 min

Lab File: VN051992.D

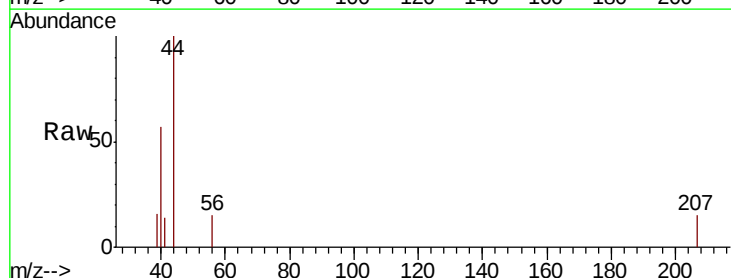
Acq: 24 Oct 2018 17:07

Tgt Ion: 56 Resp: 134

Ion Ratio Lower Upper

56 100

55 22.4 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051992.D

Ion 55.00 (54.70 to 55.70): VN051992.D

3.65

200

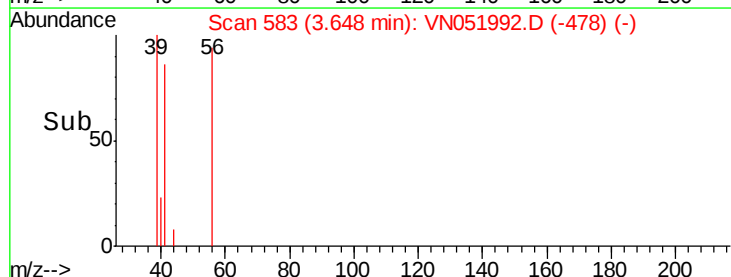
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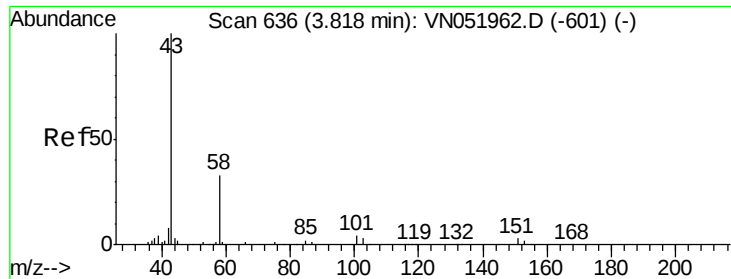
100

50

0

Time-->





#16

Acetone

Concen: 5.394 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

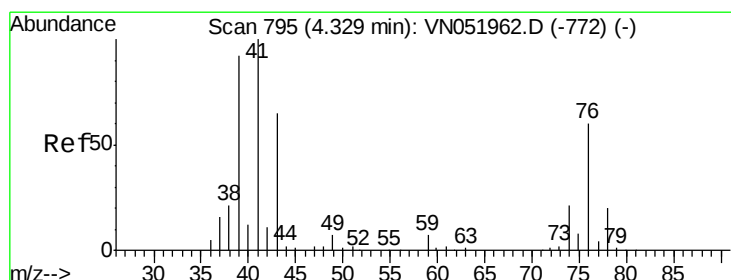
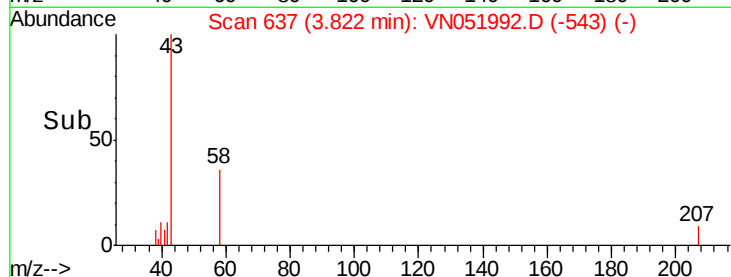
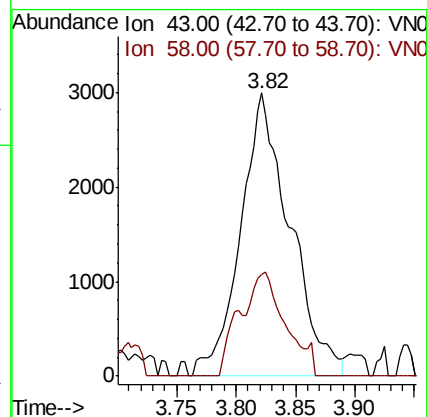
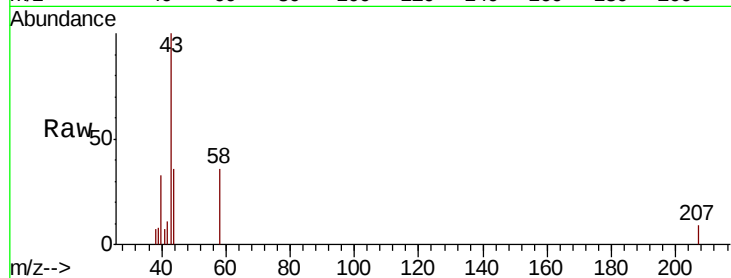
ClientSampleId :

Tot Ion: 43 Resp: 8609

Ion Ratio Lower Upper

43 100

58 35.9 26.7 40.1



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN051992.D

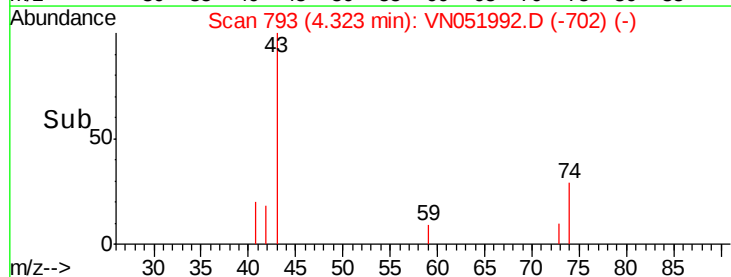
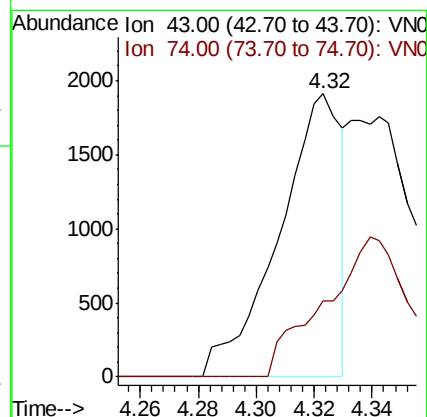
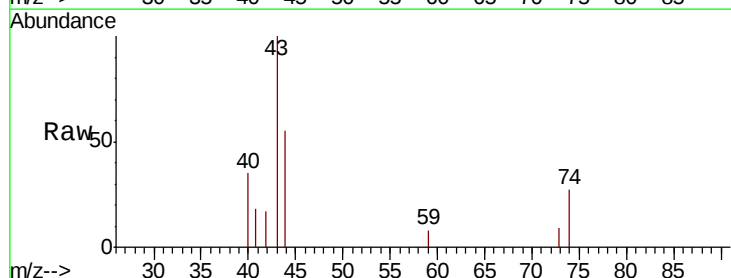
Acq: 24 Oct 2018 17:07

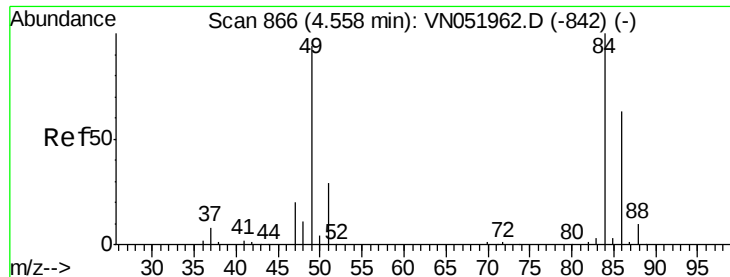
Tgt Ion: 43 Resp: 2864

Ion Ratio Lower Upper

43 100

74 69.8 25.7 38.5#

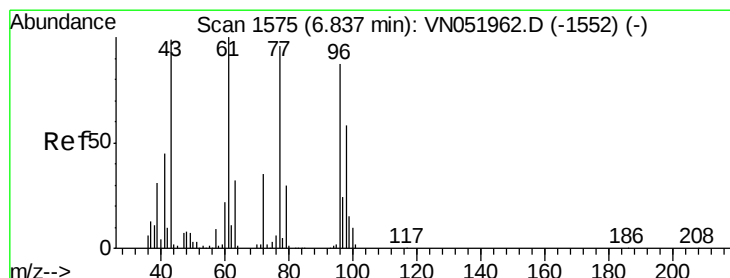
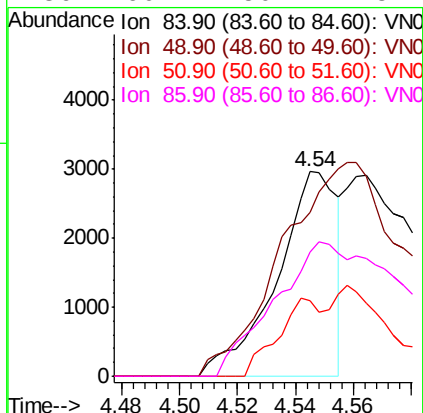
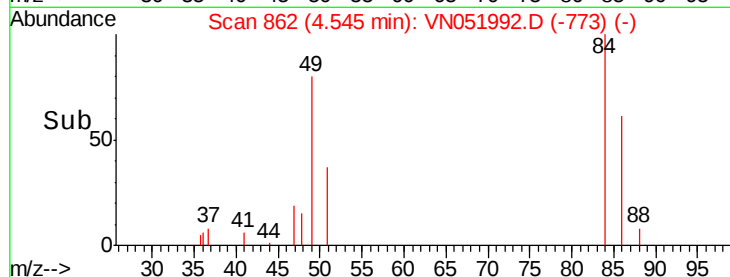
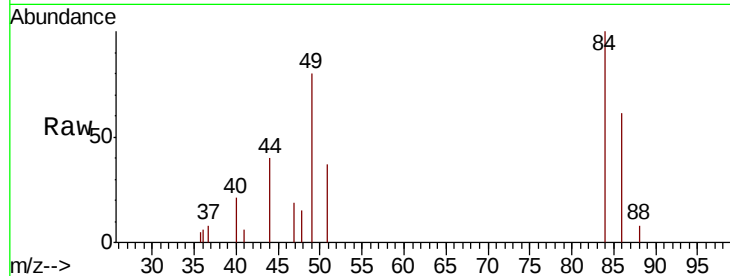




#20
Methvlene Chloride
Concen: 0.456 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.01 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

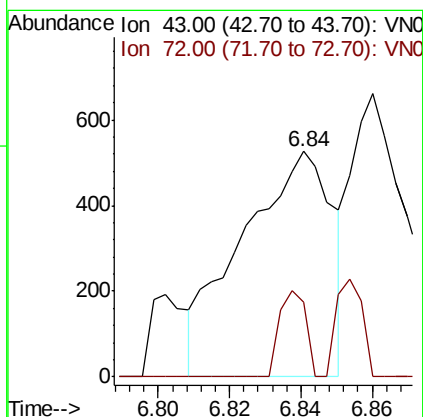
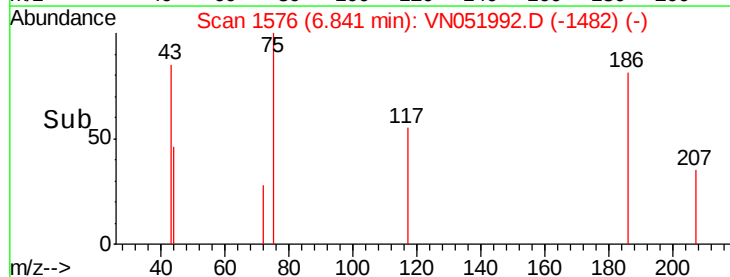
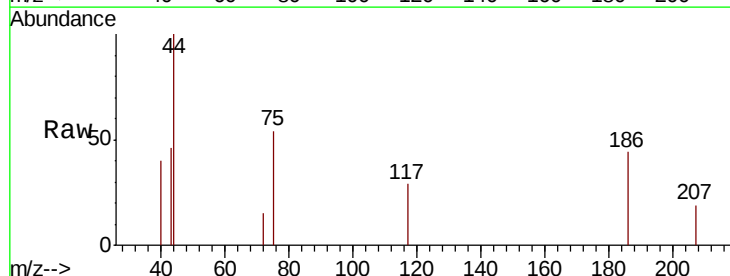
Instrument :
MSVOA_N
ClientSampleId :

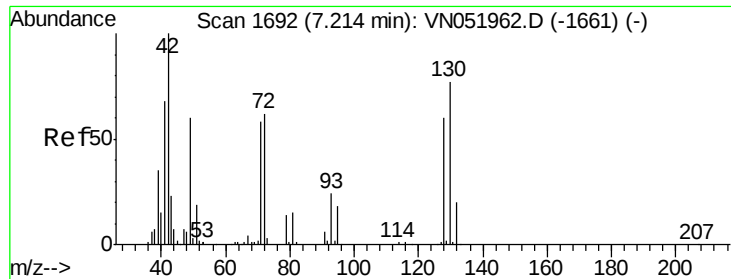
Tot Ion: 84 Resp: 4271
Ion Ratio Lower Upper
84 100
49 80.4 75.4 113.0
51 36.8 23.1 34.7#
86 60.7 50.2 75.4



#25
2-Butanone
Concen: 0.407 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

Tgt Ion: 43 Resp: 925
Ion Ratio Lower Upper
43 100
72 46.6 28.5 42.7#

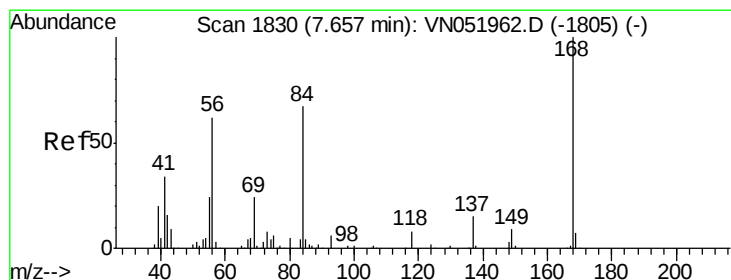
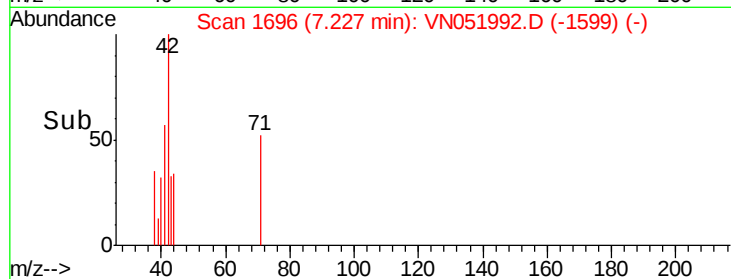
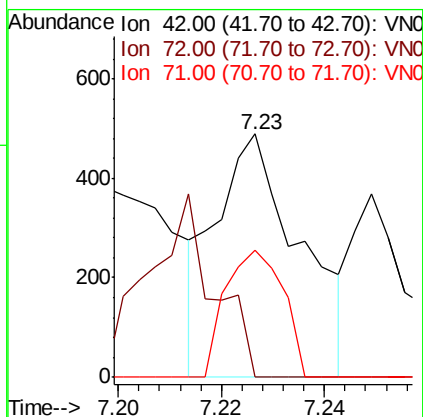
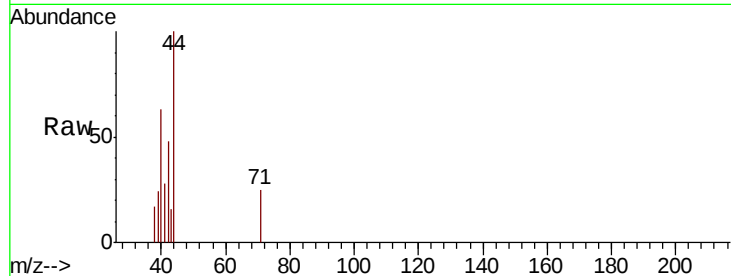




#29
Tetrahydrofuran
Concen: 0.359 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

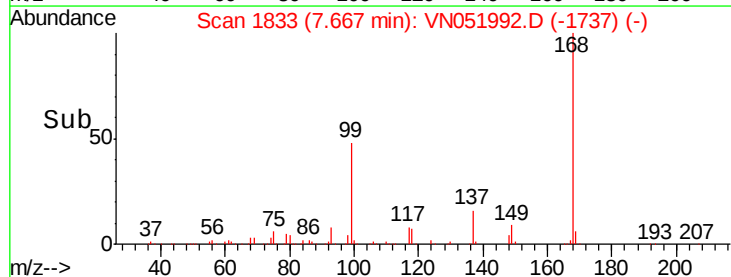
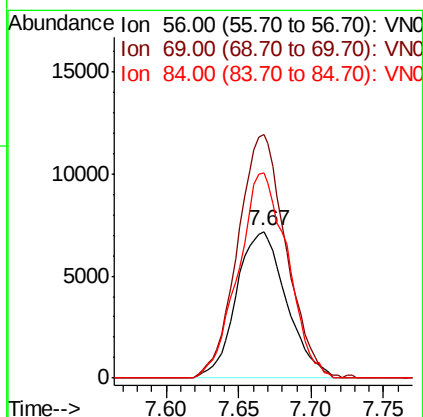
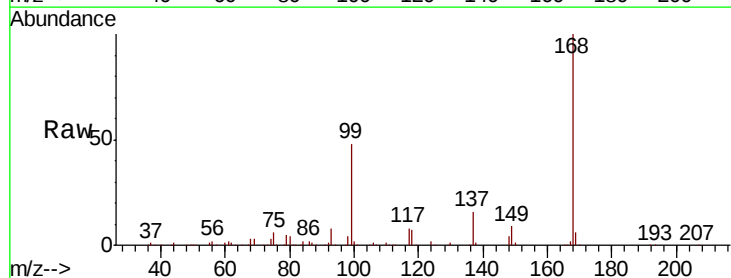
Instrument :
MSVOA_N
ClientSampled :

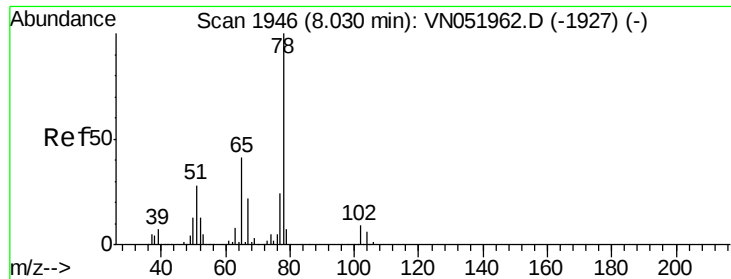
Tot Ion: 42 Resp: 554
Ion Ratio Lower Upper
42 100
72 58.3 47.5 71.3
71 35.6 45.4 68.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

Tgt Ion: 56 Resp: 17207
Ion Ratio Lower Upper
56 100
69 166.0 31.2 46.8#
84 139.9 86.3 129.5#

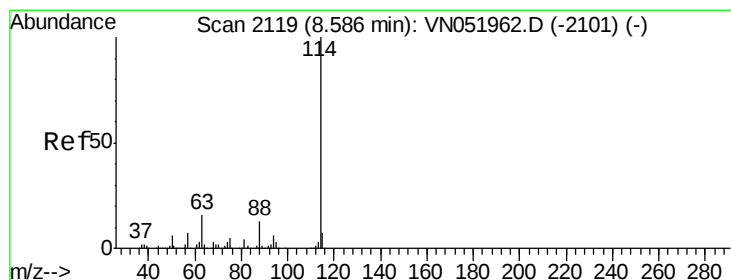
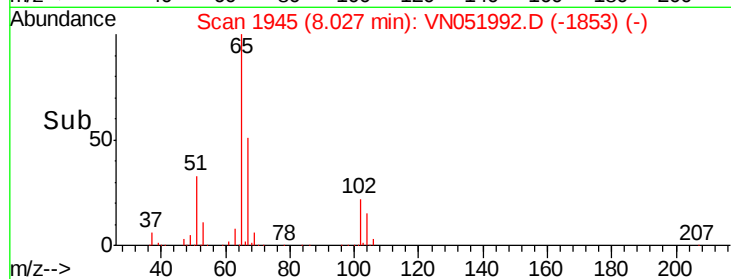
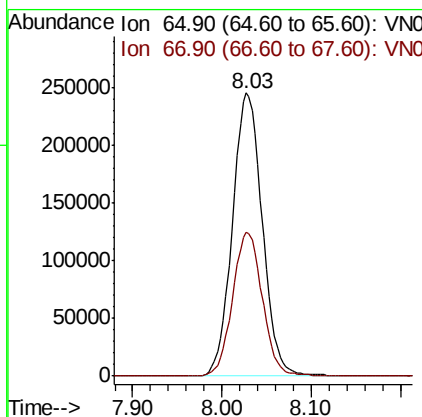
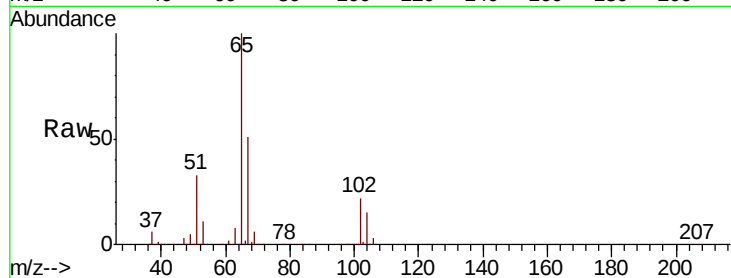




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

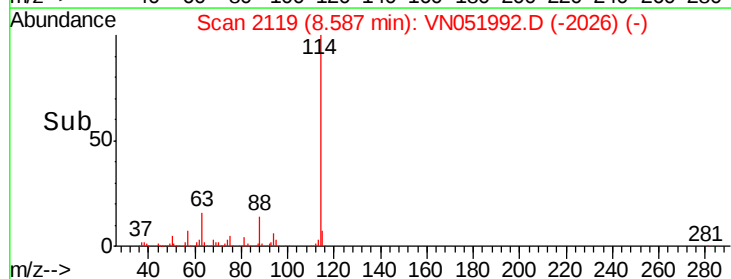
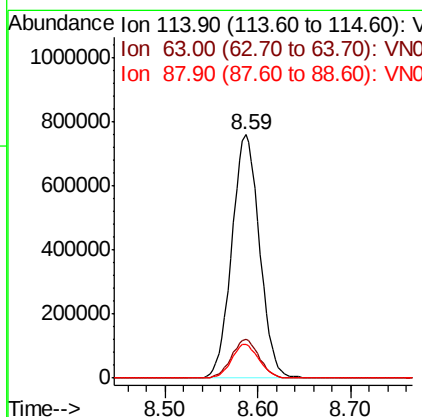
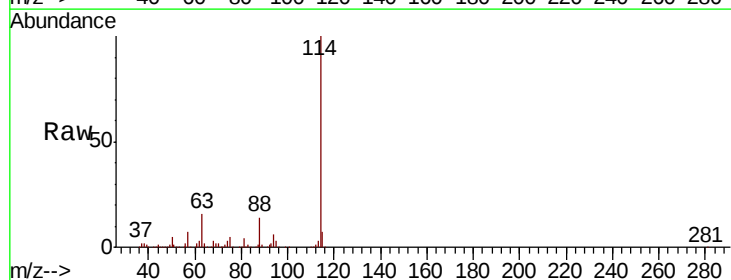
Instrument :
 MSVOA_N
 ClientSampled :

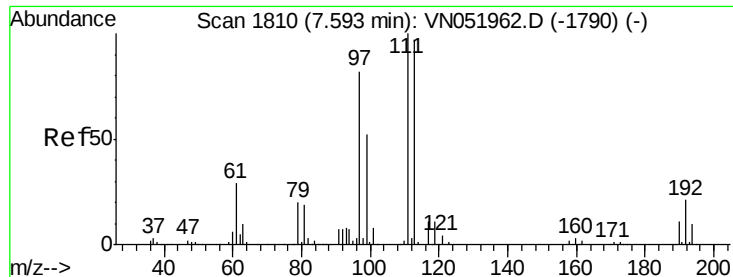
Tot Ion: 65 Resp: 569359
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

Tgt Ion: 114 Resp: 1570533
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 31.2
 88 13.9 0.0 27.0

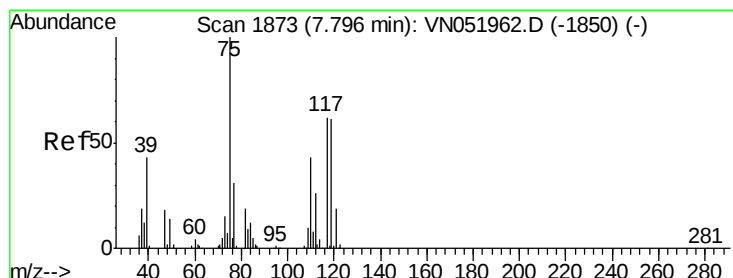
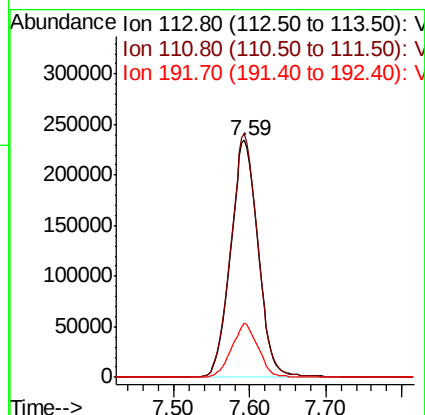
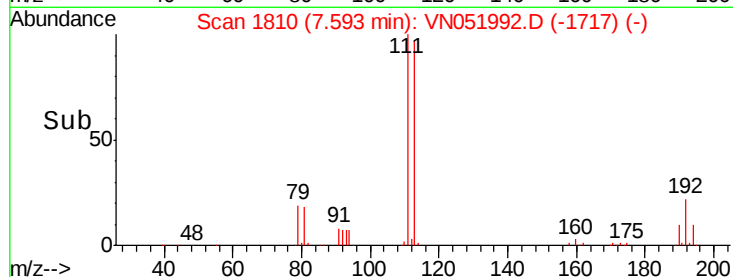
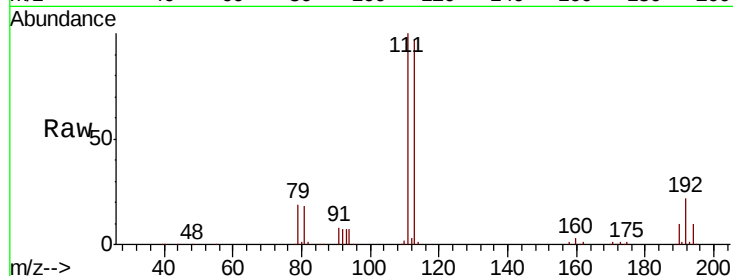




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

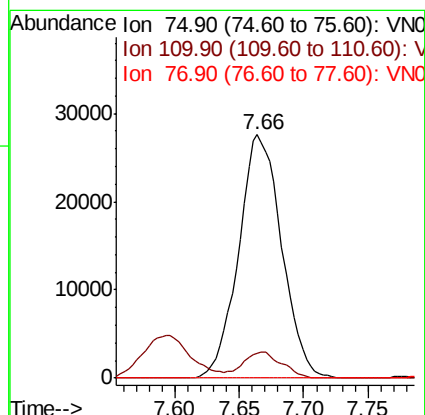
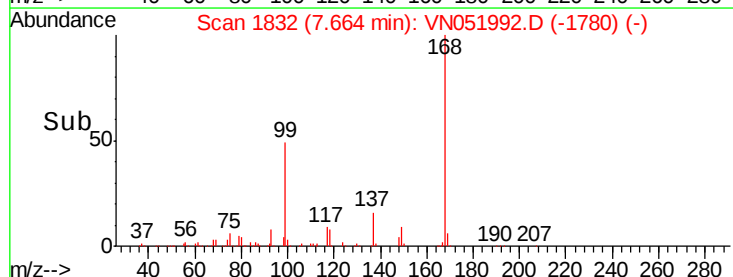
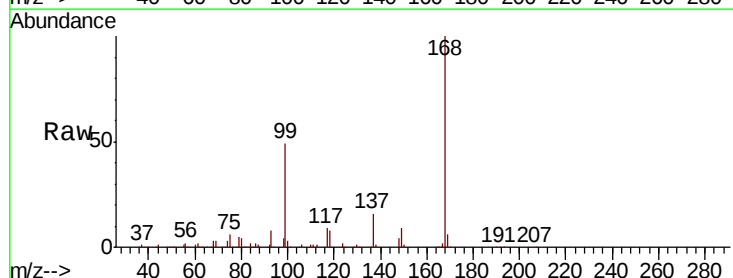
Instrument :
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 ClientSampleId :

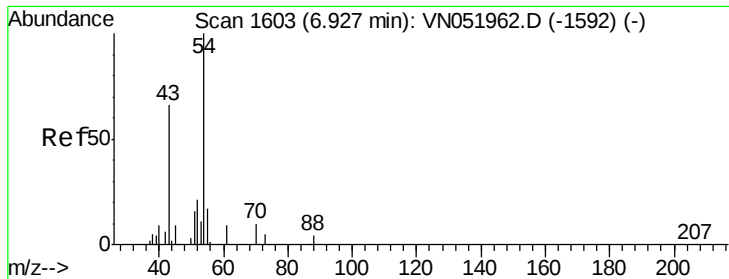
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.7	121.1
192	21.8	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.311 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	20.9	62.8#
77	0.0	24.9	37.3#

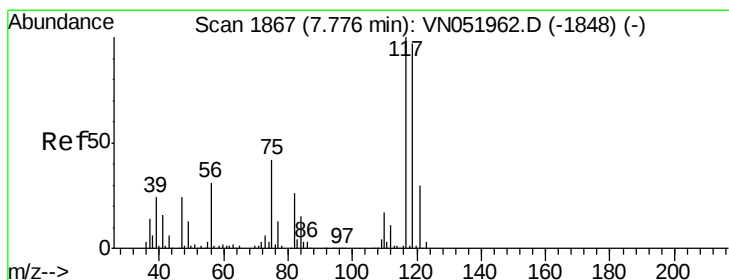
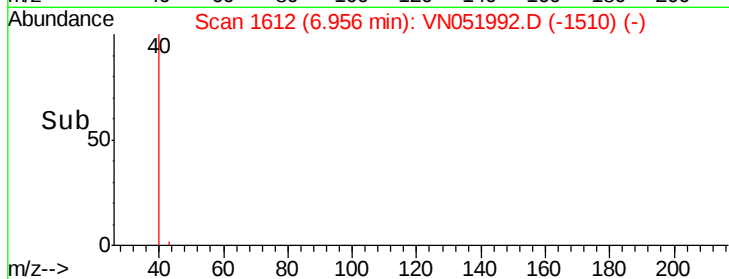
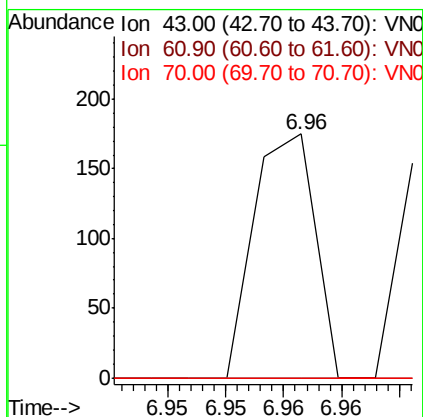
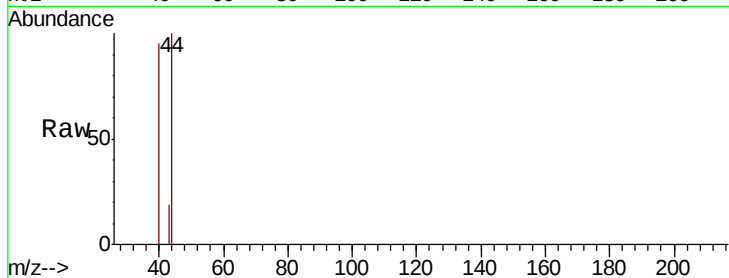




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 1612
Delta R.T. 0.03 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

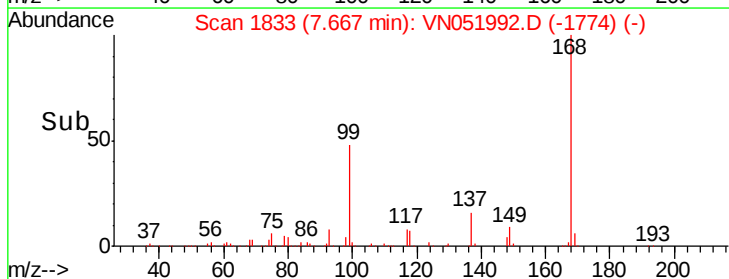
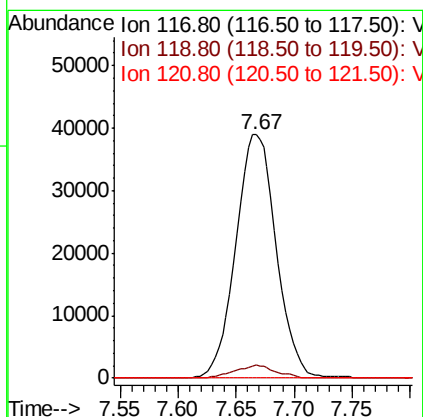
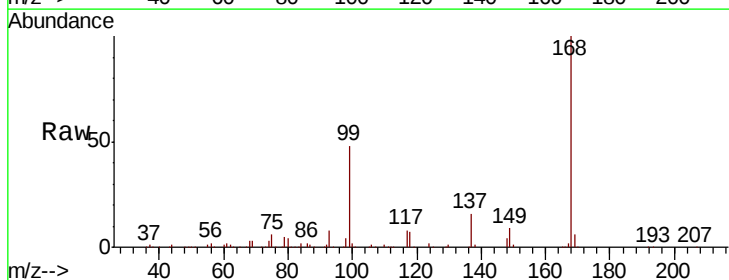
Instrument :
MSVOA_N
ClientSampleId :

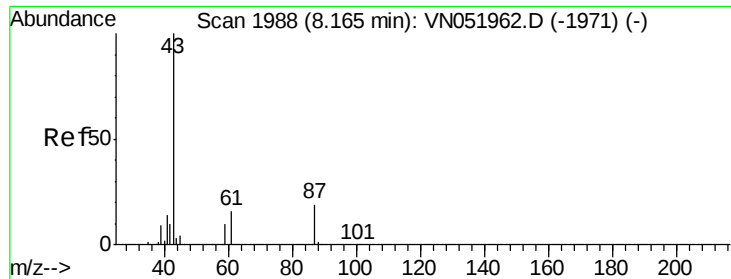
Tot Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 6.841 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

Tgt Ion: 117 Resp: 94612
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.2 36.4#



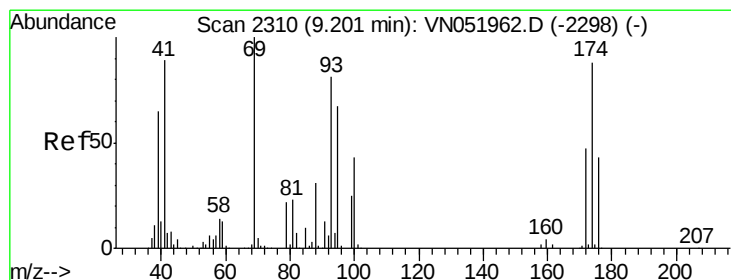
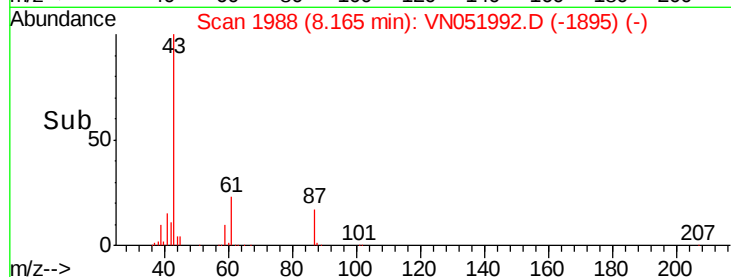
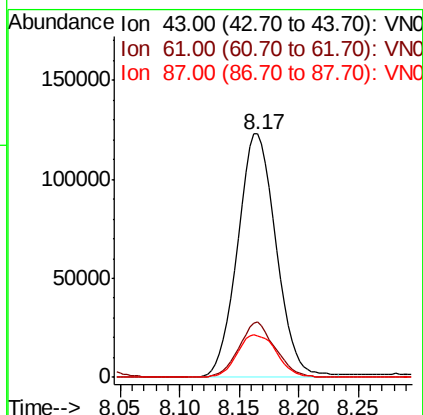
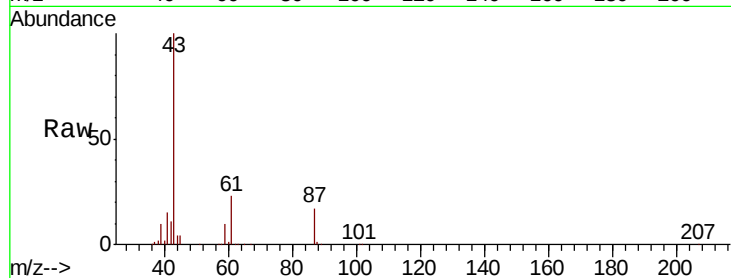


#43

Isopropyl Acetate
 Concen: 27.284 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

Instrument :
 MSVOA_N
 ClientSampled :

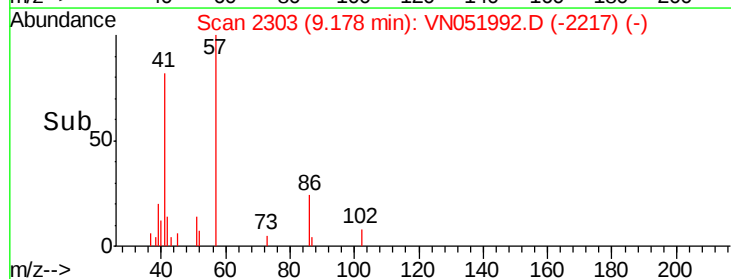
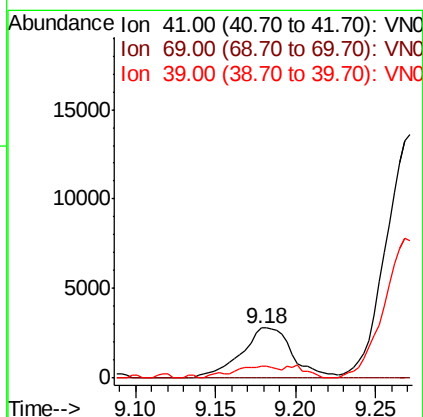
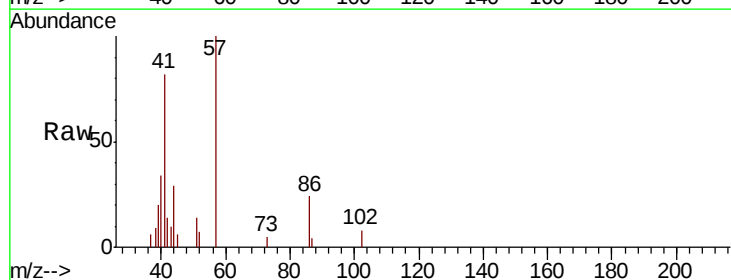
Tot Ion: 43 Resp: 275283
 Ion Ratio Lower Upper
 43 100
 61 21.5 17.2 25.8
 87 17.9 15.2 22.8

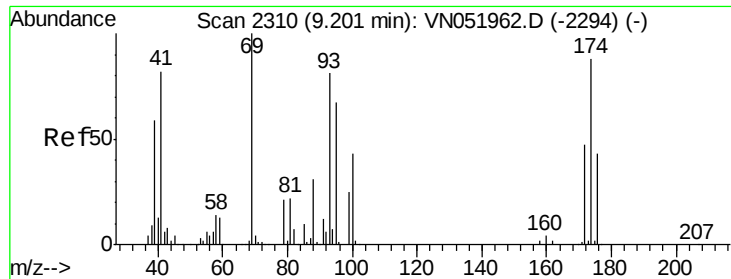


#48

Methyl methacrylate
 Concen: 1.286 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

Tgt Ion: 41 Resp: 6272
 Ion Ratio Lower Upper
 41 100
 69 0.0 92.2 138.4#
 39 21.1 60.2 90.4#





#49

1,4-Dioxane

Concen: 0.414 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

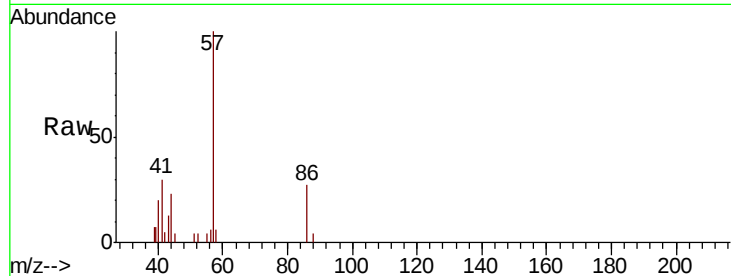
Tot Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

43 0.0 18.8 28.2#

58 508.1 39.8 59.6#



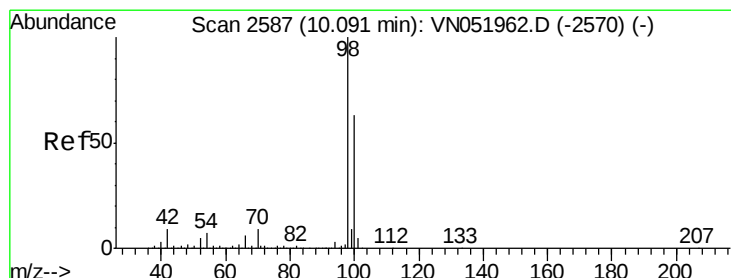
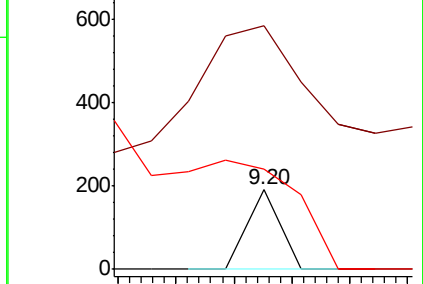
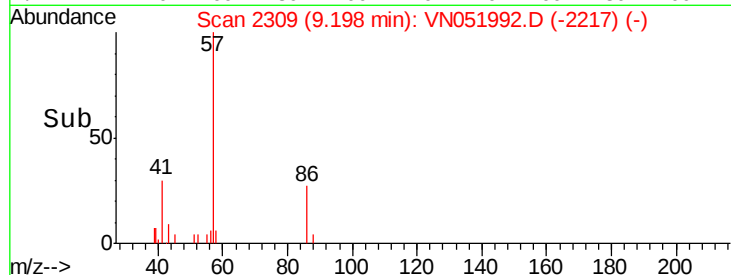
Abundance Ion 88.00 (87.70 to 88.70): VN051992.D (-2217) (-)

Ion 43.00 (42.70 to 43.70): VN051992.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN051992.D (-2217) (-)

9.20

Time-->



#50

Toluene-d8

Concen: 0.414 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051992.D

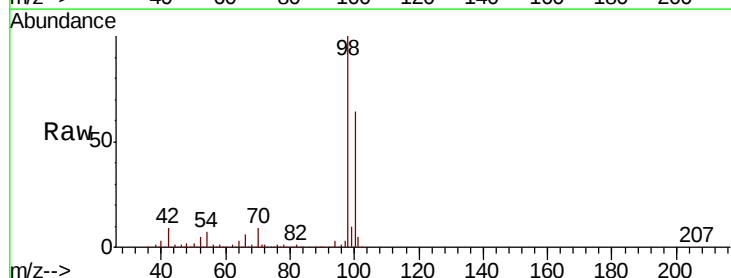
Acq: 24 Oct 2018 17:07

Tgt Ion: 98 Resp: 2163835

Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1

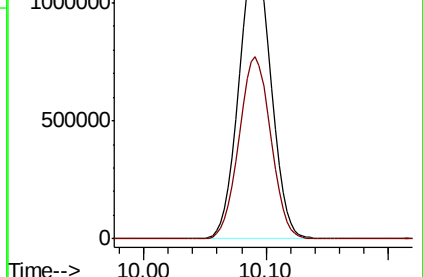
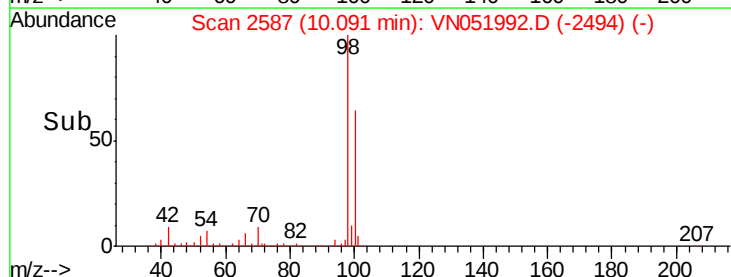


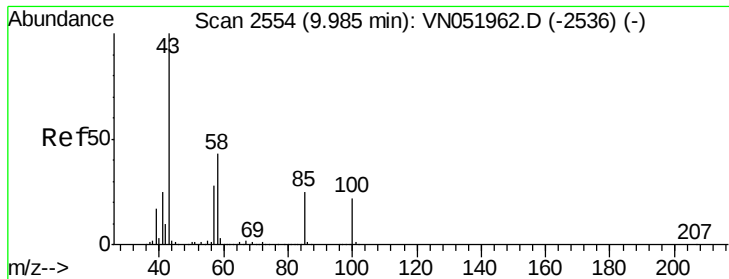
Abundance Ion 98.00 (97.70 to 98.70): VN051992.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN051992.D (-2494) (-)

10.09

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.244 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

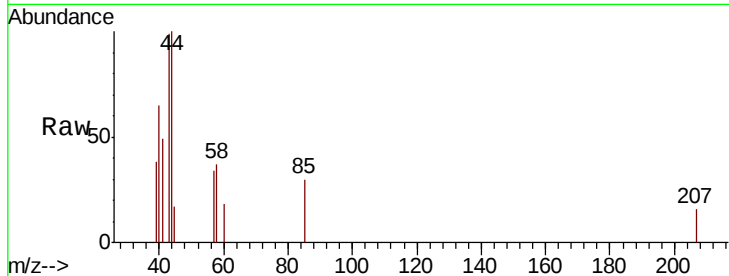
ClientSampled :

Tot Ion: 43 Resp: 1353

Ion Ratio Lower Upper

43 100

58 35.8 34.8 52.2



Abundance Ion 43.00 (42.70 to 43.70): VN051992.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN051992.D (-2536) (-)

9.99

1000

800

600

400

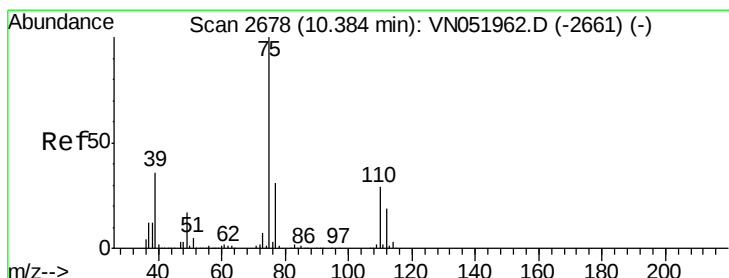
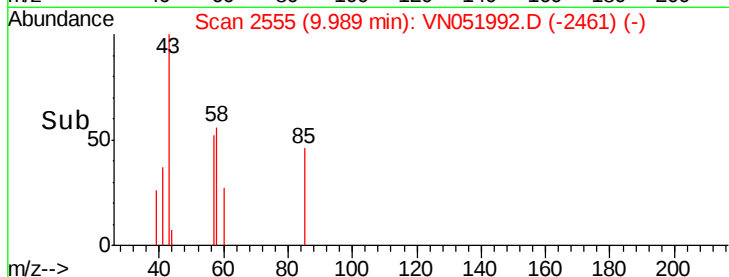
200

0

9.95

10.00

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.250 ug/l

RT: 10.48 min Scan# 2707

Delta R.T. 0.09 min

Lab File: VN051992.D

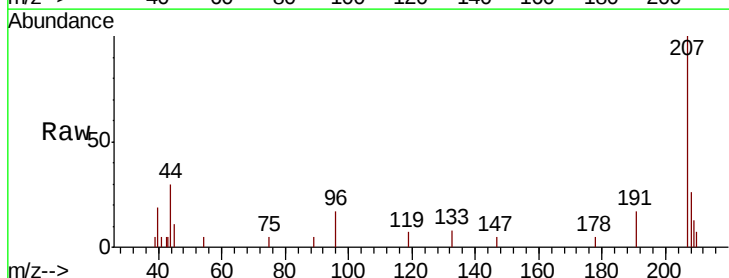
Acq: 24 Oct 2018 17:07

Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN051992.D (-2584) (-)

Ion 76.90 (76.60 to 77.60): VN051992.D (-2584) (-)

10.48

200

150

100

50

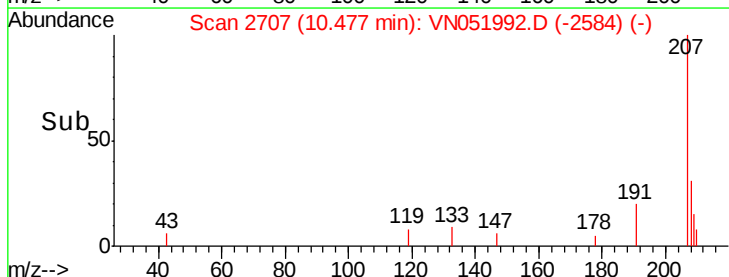
0

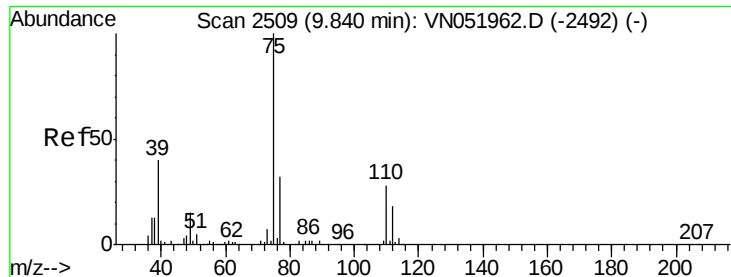
10.47

10.48

10.49

Time-->

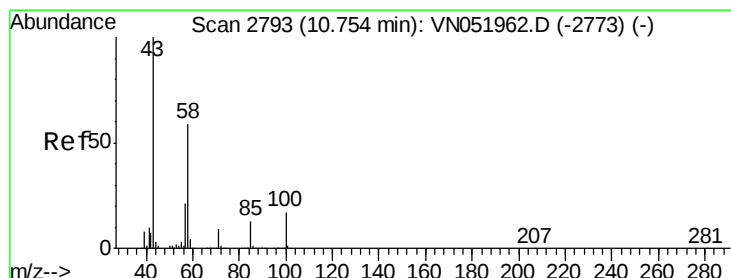
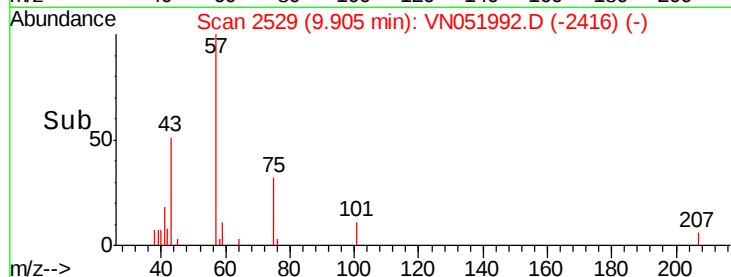
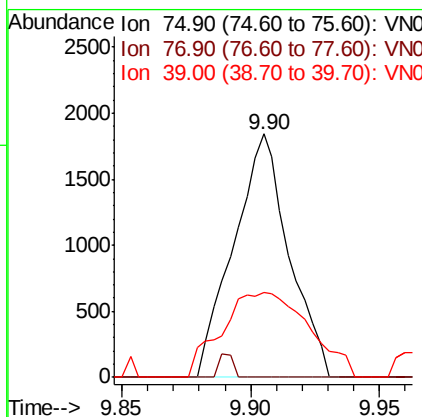
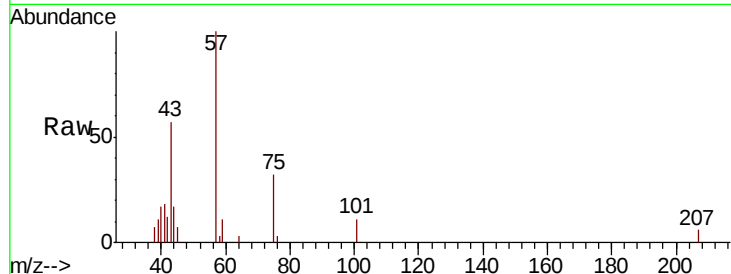




#54
 cis-1,3-Dichloropropene
 Concen: 0.214 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

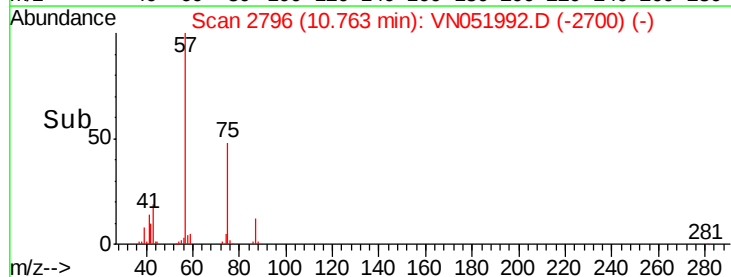
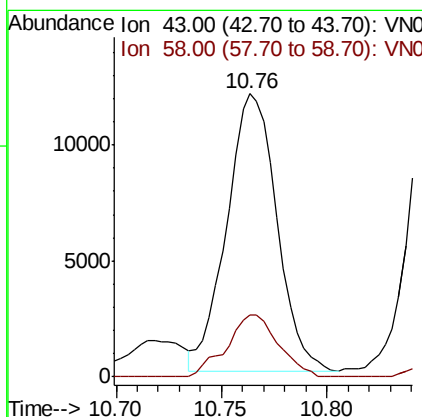
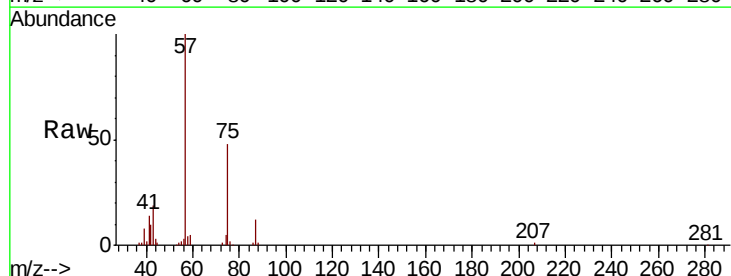
Instrument :
 MSVOA_N
 ClientSampleId :

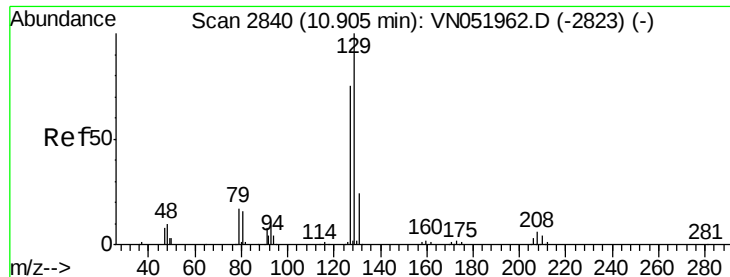
Tot Ion: 75 Resp: 2756
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 34.8 32.0 48.0



#59
 2-Hexanone
 Concen: 5.265 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051992.D
 Acq: 24 Oct 2018 17:07

Tgt Ion: 43 Resp: 19632
 Ion Ratio Lower Upper
 43 100
 58 23.1 29.9 89.8#





#60

Dibromochloromethane

Concen: 1.980 ug/l

RT: 10.64 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

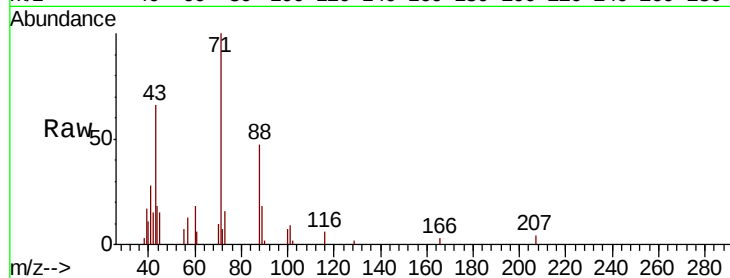
ClientSampleId :

Tot Ion:129 Resp: 30

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.64

150

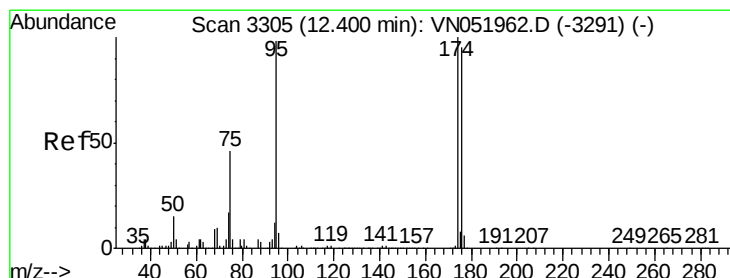
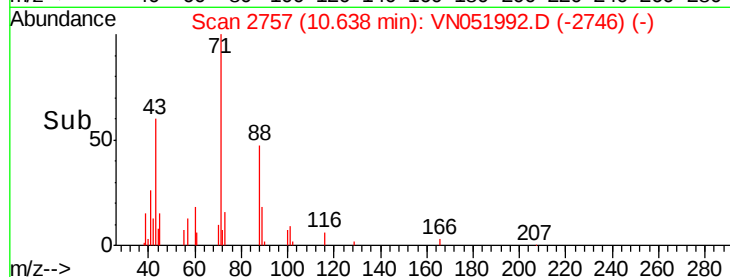
100

50

0

10.63 10.64

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

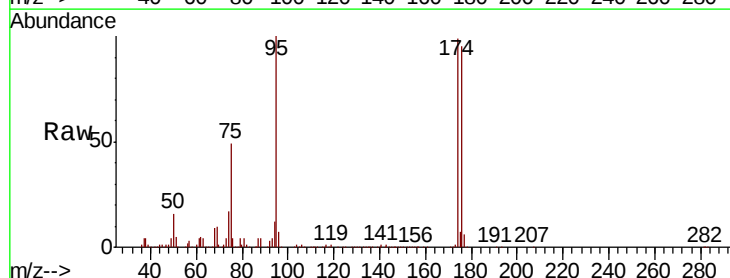
Tgt Ion: 95 Resp: 692521

Ion Ratio Lower Upper

95 100

174 99.8 0.0 206.0

176 96.7 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

500000

400000

300000

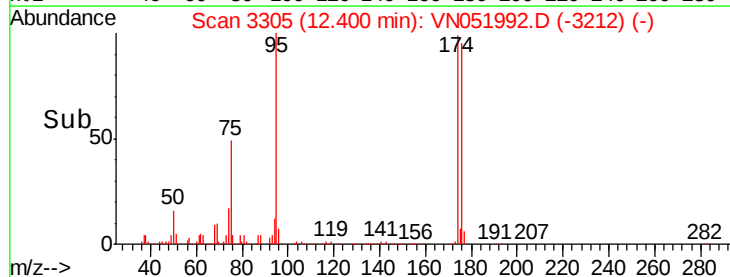
200000

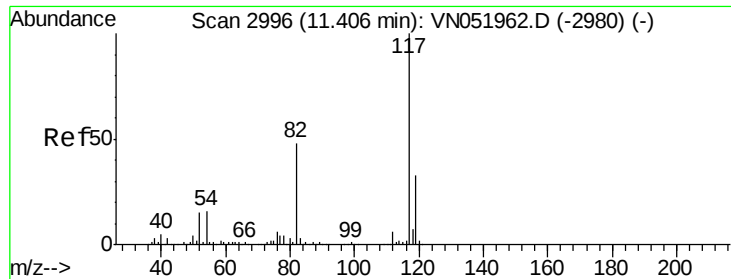
100000

0

12.30 12.35 12.40 12.45

Time-->

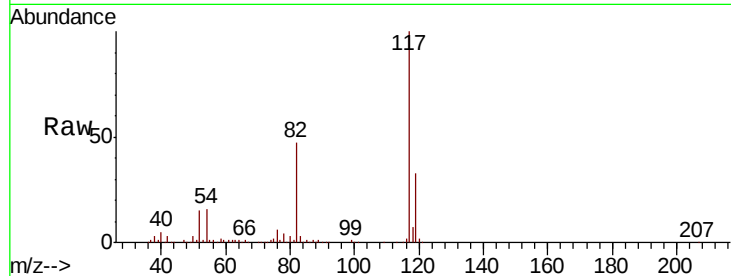




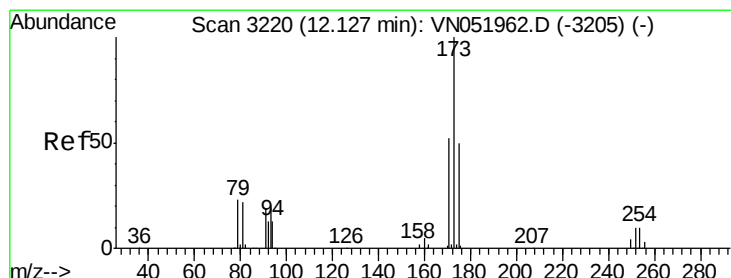
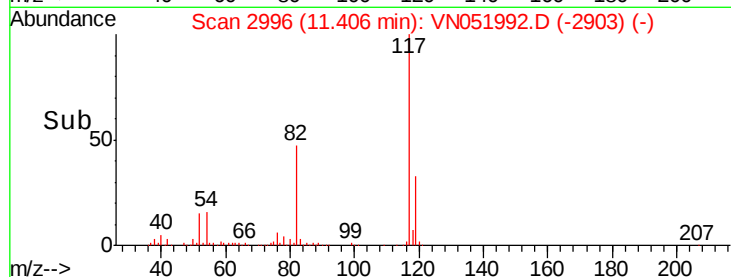
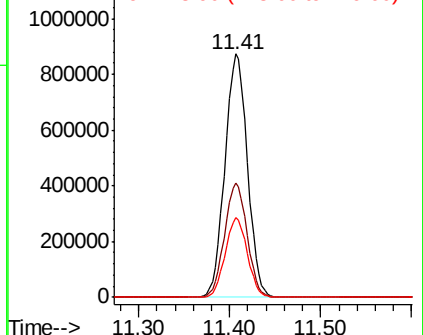
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1500808
Ion Ratio Lower Upper
117 100
82 47.0 38.1 57.1
119 32.8 26.4 39.6

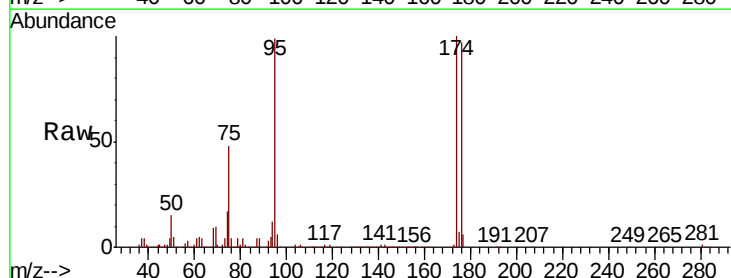


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

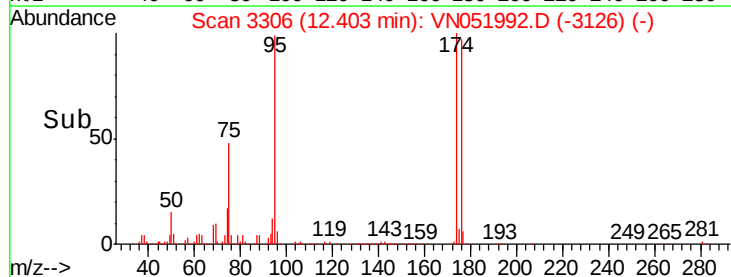
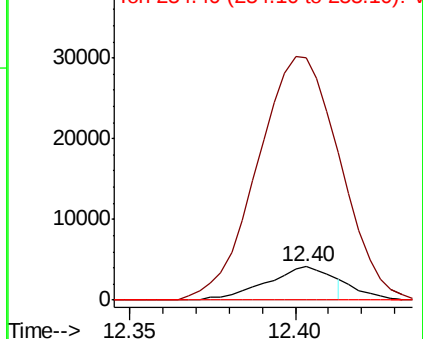


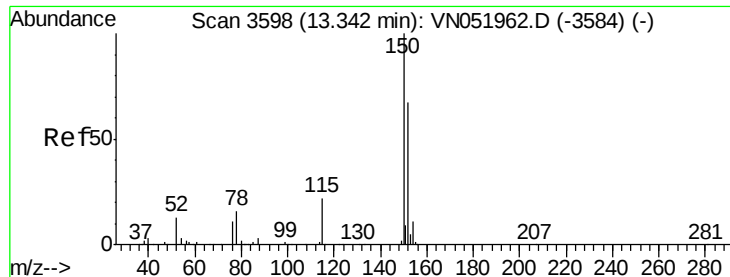
#71
Bromoform
Concen: 4.346 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051992.D
Acq: 24 Oct 2018 17:07

Tgt Ion:173 Resp: 5679
Ion Ratio Lower Upper
173 100
175 813.3 24.6 74.0#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

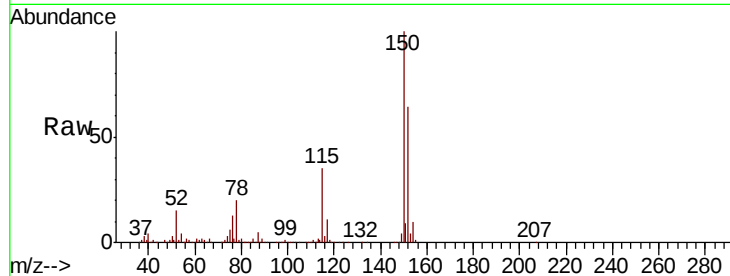
Tot Ion:152 Resp: 670215

Ion Ratio Lower Upper

152 100

115 54.3 25.8 77.3

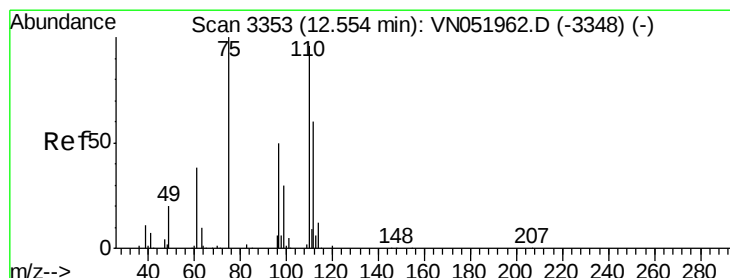
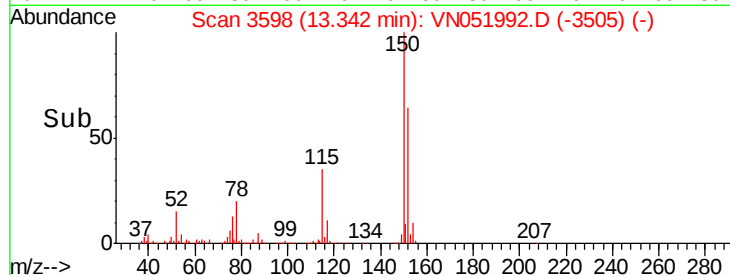
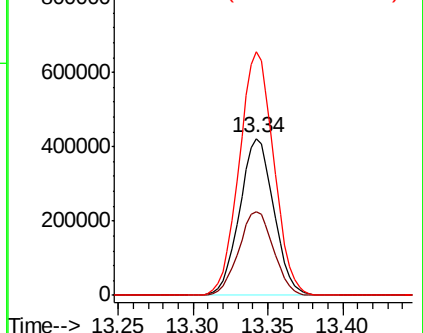
150 157.2 0.0 344.4



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



#76

1,2,3-Trichloropropane

Concen: 48.544 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051992.D

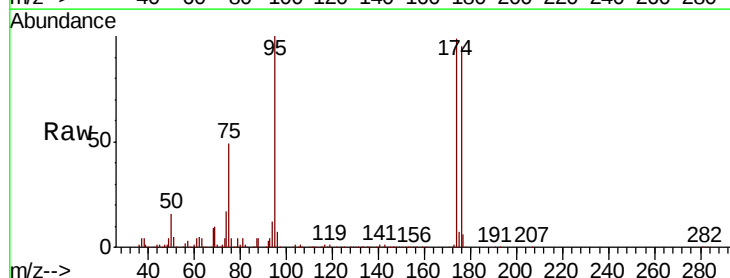
Acq: 24 Oct 2018 17:07

Tgt Ion: 75 Resp: 336067

Ion Ratio Lower Upper

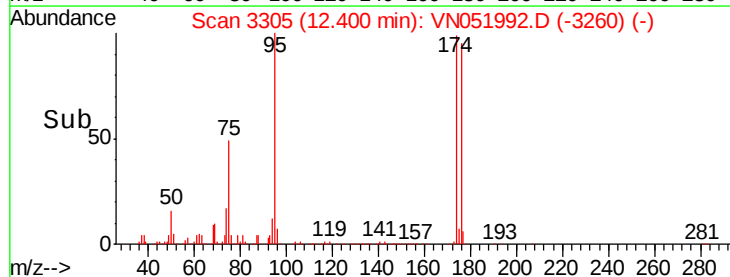
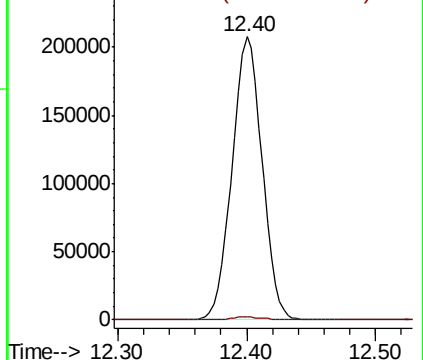
75 100

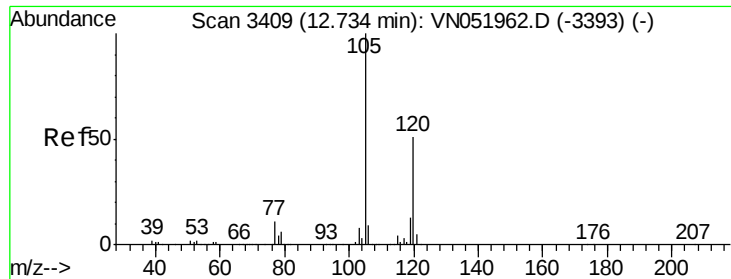
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.207 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

Instrument :

MSVOA_N

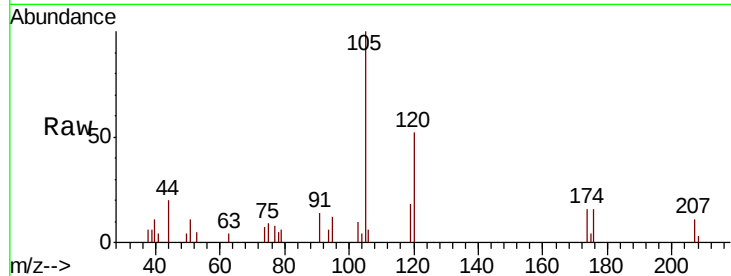
ClientSampled :

Tot Ion:105 Resp: 7056

Ion Ratio Lower Upper

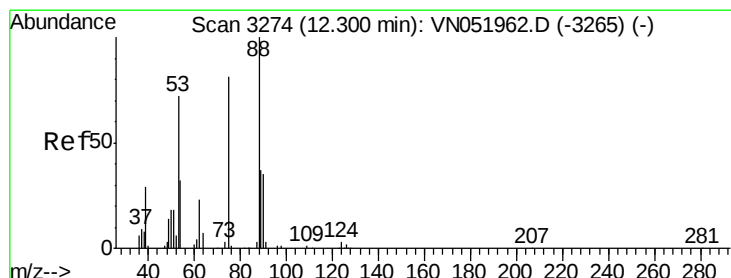
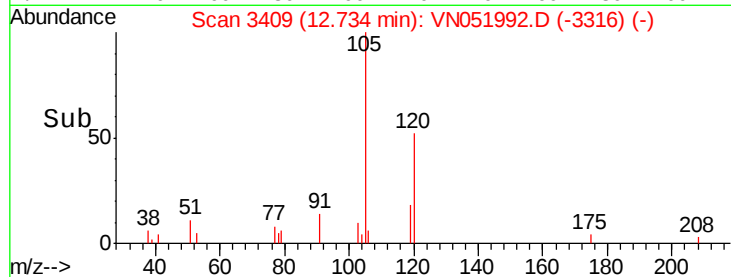
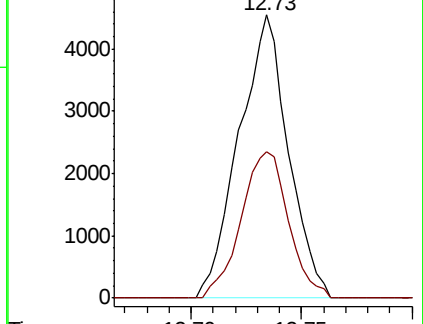
105 100

120 49.6 25.7 77.1



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: 152.642 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051992.D

Acq: 24 Oct 2018 17:07

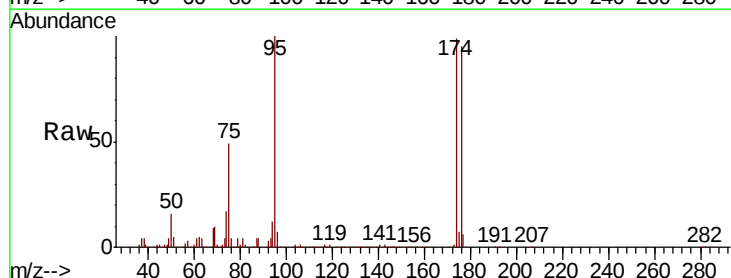
Tgt Ion: 75 Resp: 336067

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

