

Data File : VN051662.D
Acq On : 4 Oct 2018 12:54
Operator : MD\SY
Sample : I.BLK
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Quant Time: Oct 05 02:03:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 01:55:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	783130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1130820	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	948726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	353081	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	478977	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
35) Dibromofluoromethane	7.59	113	436107	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
50) Toluene-d8	10.09	98	1568784	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
62) 4-Bromofluorobenzene	12.40	95	445391	38.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	4447	0.479	ug/l	85
3) Chloromethane	2.06	50	2452	0.274	ug/l	91
4) Vinyl Chloride	2.18	62	3197	0.227	ug/l	98
5) Bromomethane	2.57	94	6002	0.554	ug/l	96
7) Trichlorofluoromethane	3.01	101	5039	0.314	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	2448	0.313	ug/l #	72
10) Methyl Iodide	3.95	142	2637	0.276	ug/l #	73
12) 1,1-Dichloroethene	3.73	96	2744	0.376	ug/l #	69
13) Acrolein	3.62	56	595	1.355	ug/l	84
15) Acrylonitrile	4.98	53	755	0.311	ug/l #	30
16) Acetone	3.83	43	604	0.319	ug/l #	67
17) Carbon Disulfide	4.06	76	31775	1.433	ug/l	99
18) Methyl Acetate	4.33	43	1443	0.253	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	3595	0.416	ug/l #	76
27) cis-1,2-Dichloroethene	6.84	96	2008	0.200	ug/l	81
29) Tetrahydrofuran	7.22	42	1481	0.808	ug/l #	28
31) Cyclohexane	7.67	56	17888	1.274	ug/l #	42
36) 1,1-Dichloropropene	7.80	75	4503	0.381	ug/l #	71
38) Carbon Tetrachloride	7.67	117	72144	5.087	ug/l #	15
39) Methylcyclohexane	9.09	83	3434	0.231	ug/l #	81
44) Trichloroethene	8.84	130	3522	0.354	ug/l	87
46) Dibromomethane	9.22	93	1800	0.299	ug/l	89
51) 4-Methyl-2-Pentanone	9.99	43	3555	0.546	ug/l #	74
53) t-1,3-Dichloropropene	10.38	75	3443	0.252	ug/l #	70
58) 2-Chloroethyl Vinyl ether	9.70	63	1751	0.403	ug/l	99
59) 2-Hexanone	10.76	43	6639	1.501	ug/l	97
61) 1,2-Dibromoethane	11.01	107	1806	0.206	ug/l	98
64) Tetrachloroethene	10.64	164	3239	0.387	ug/l	87
65) Chlorobenzene	11.44	112	7389	0.314	ug/l	90
67) Ethyl Benzene	11.51	91	9925	0.244	ug/l	91
68) m/p-Xylenes	11.63	106	8454	0.520	ug/l	93
70) Styrene	11.97	104	7883	0.310	ug/l	98
73) Isopropylbenzene	12.25	105	9078	0.302	ug/l	96
74) N-amyl acetate	12.07	43	5493	0.800	ug/l #	89

Data File : VN051662.D
Acq On : 4 Oct 2018 12:54
Operator : MD\SY
Sample : I.BLK
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

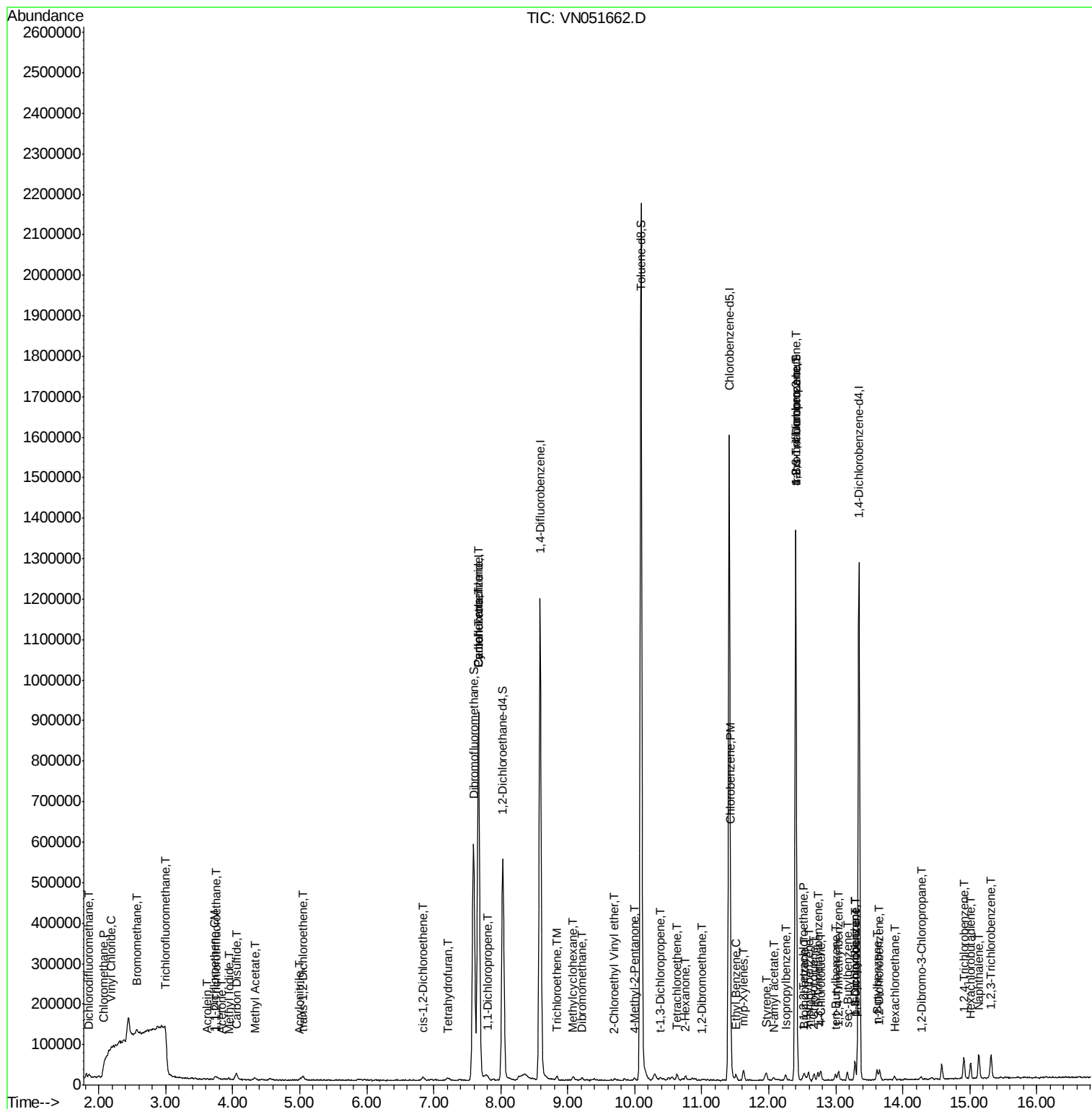
Quant Time: Oct 05 02:03:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 01:55:54 2018
Response via : Initial Calibration

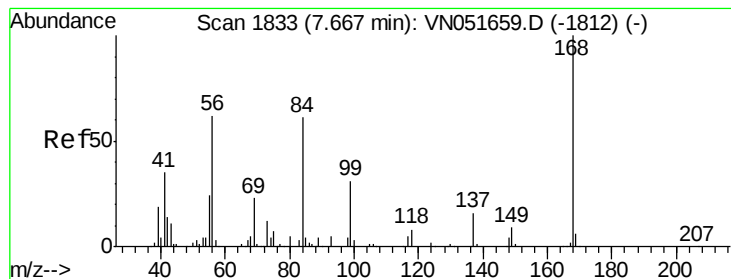
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,1,2,2-Tetrachloroethane	12.50	83	2078	0.320	ug/l #	81
76) 1,2,3-Trichloropropane	12.40	75	238885	48.238	ug/l #	100
77) Bromobenzene	12.53	156	4006	0.544	ug/l	89
78) n-propylbenzene	12.59	91	14793	0.451	ug/l	97
79) 2-Chlorotoluene	12.67	91	7559	0.391	ug/l	93
80) 1,3,5-Trimethylbenzene	12.73	105	8197	0.323	ug/l	85
81) trans-1,4-Dichloro-2-buten	12.40	75	238885	124.367	ug/l #	14
82) 4-Chlorotoluene	12.77	91	12791	0.658	ug/l	96
83) tert-Butylbenzene	12.99	119	7236	0.318	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	11501	0.453	ug/l	91
85) sec-Butylbenzene	13.17	105	13651	0.454	ug/l	99
86) p-Isopropyltoluene	13.29	119	11595	0.435	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	10850	0.846	ug/l	97
88) 1,4-Dichlorobenzene	13.28	146	10850	0.860	ug/l	97
89) n-Butylbenzene	13.61	91	14614	0.693	ug/l	94
90) Hexachloroethane	13.87	117	1608	0.302	ug/l	78
91) 1,2-Dichlorobenzene	13.65	146	10368	0.813	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1663	1.573	ug/l	84
93) 1,2,4-Trichlorobenzene	14.91	180	16573	2.922	ug/l	99
94) Hexachlorobutadiene	15.01	225	6560	1.704	ug/l	94
95) Naphthalene	15.14	128	50436	4.117	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	20204	3.616	ug/l	96

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

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Quant Time: Oct 05 02:03:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 01:55:54 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: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

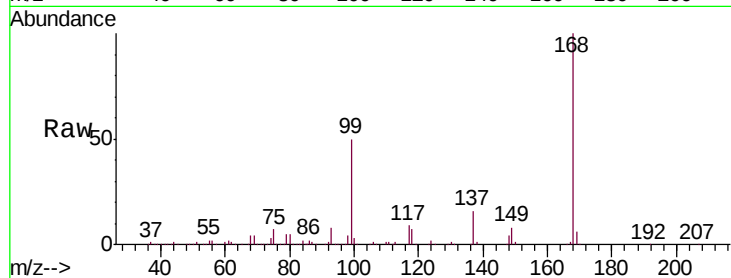
I.BLK

Tgt Ion:168 Resp: 783130

Ion Ratio Lower Upper

168 100

99 49.5 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

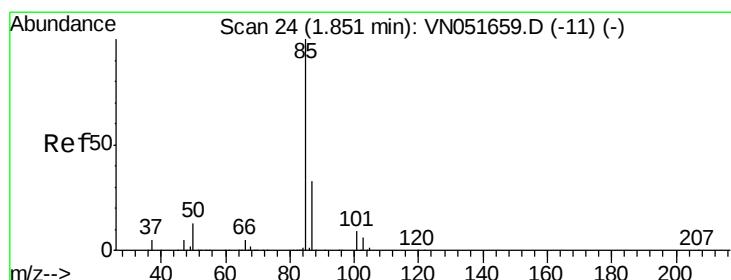
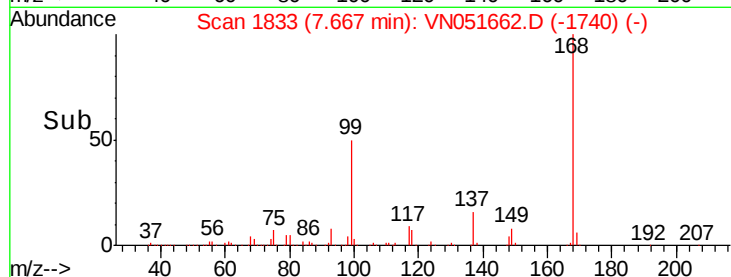
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.479 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051662.D

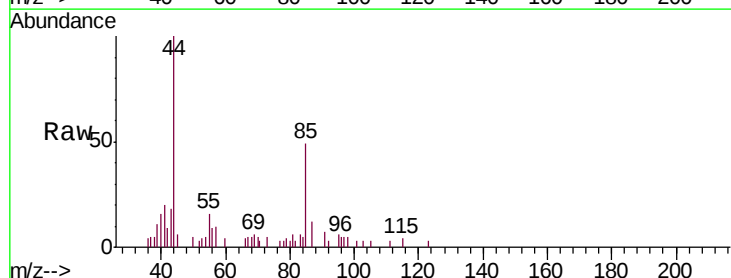
Acq: 4 Oct 2018 12:54

Tgt Ion: 85 Resp: 4447

Ion Ratio Lower Upper

85 100

87 24.3 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

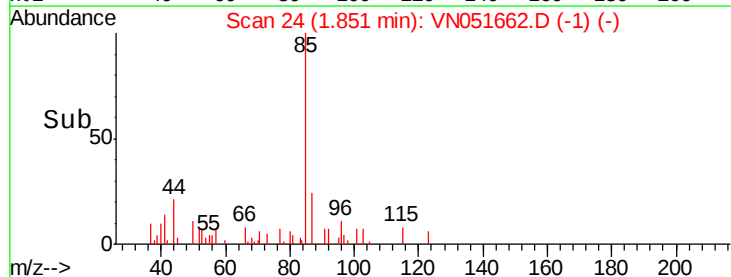
3000

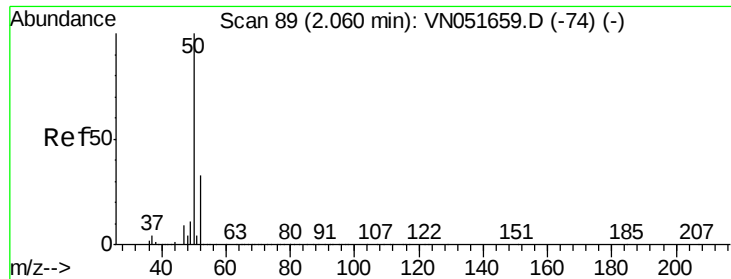
2000

1000

0

Time-->





#3

Chloromethane

Concen: 0.274 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

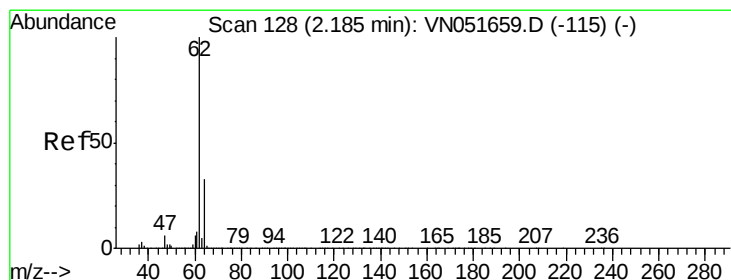
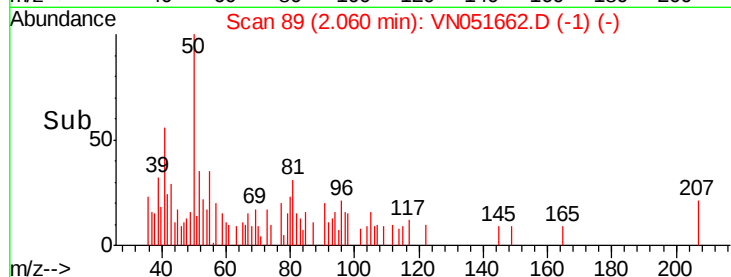
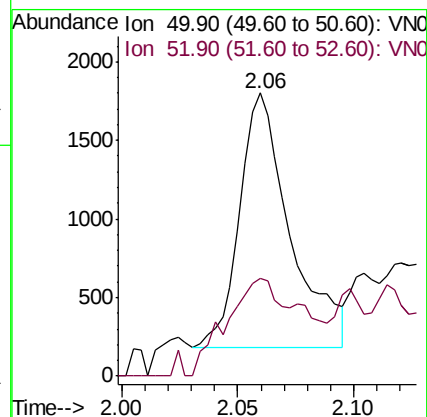
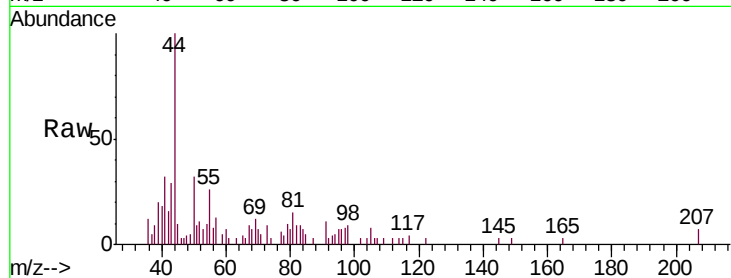
I.BLK

Tgt Ion: 50 Resp: 2452

Ion Ratio Lower Upper

50 100

52 38.5 26.6 39.8



#4

Vinyl Chloride

Concen: 0.227 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051662.D

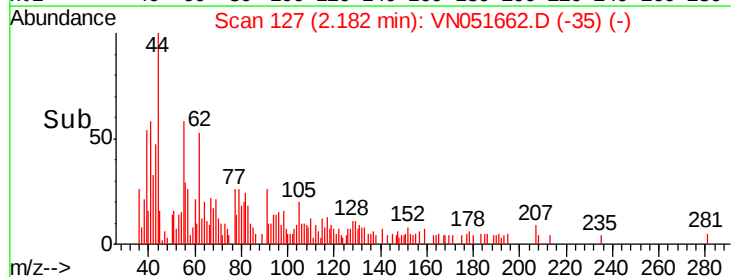
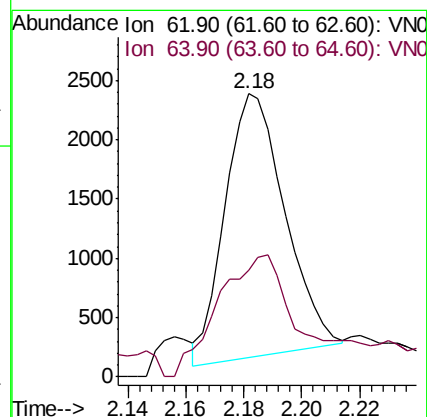
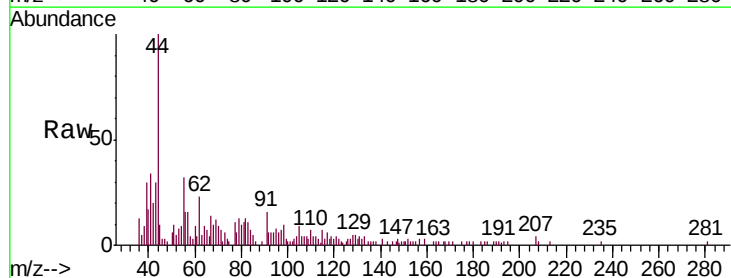
Acq: 4 Oct 2018 12:54

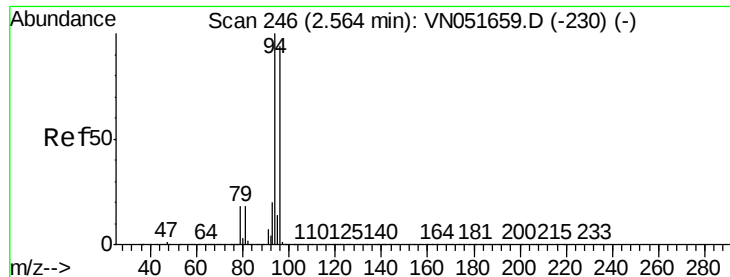
Tgt Ion: 62 Resp: 3197

Ion Ratio Lower Upper

62 100

64 31.6 26.2 39.4





#5

Bromomethane

Concen: 0.554 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

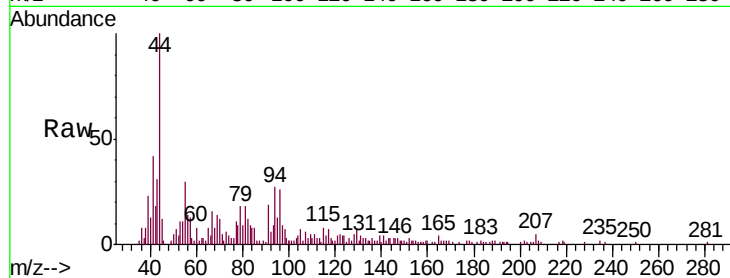
I.BLK

Tgt Ion: 94 Resp: 6002

Ion Ratio Lower Upper

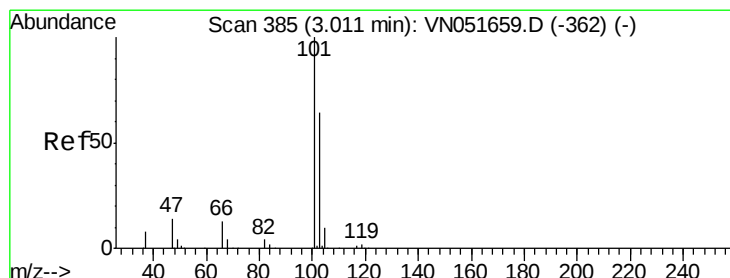
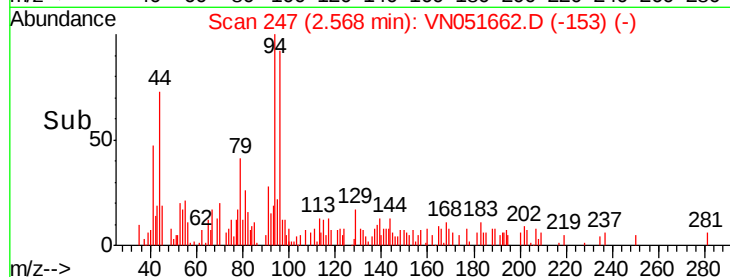
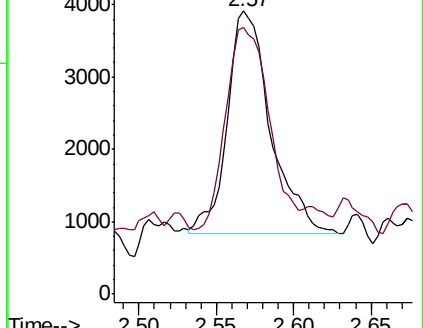
94 100

96 89.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: 0.314 ug/l

RT: 3.01 min Scan# 385

Delta R.T. 0.00 min

Lab File: VN051662.D

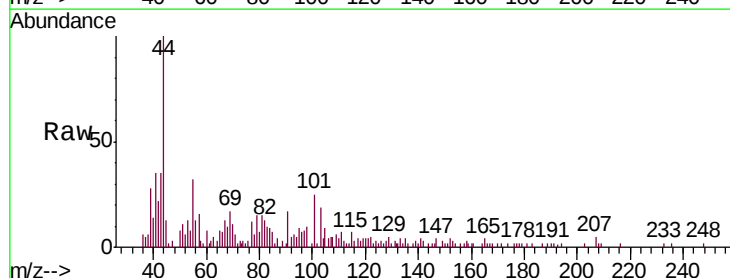
Acq: 4 Oct 2018 12:54

Tgt Ion: 101 Resp: 5039

Ion Ratio Lower Upper

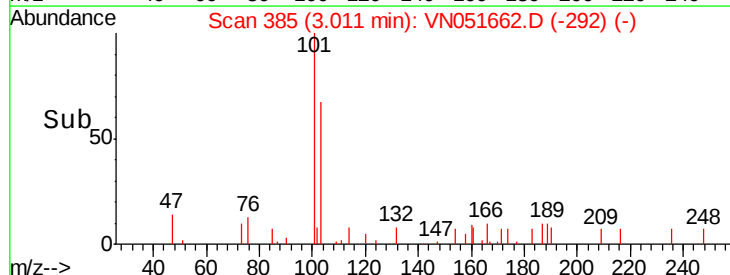
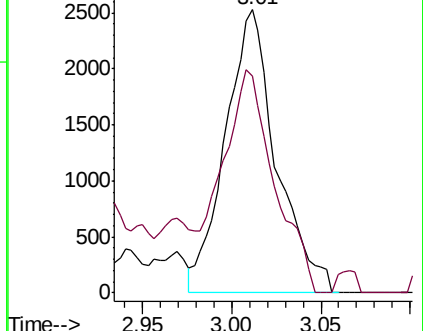
101 100

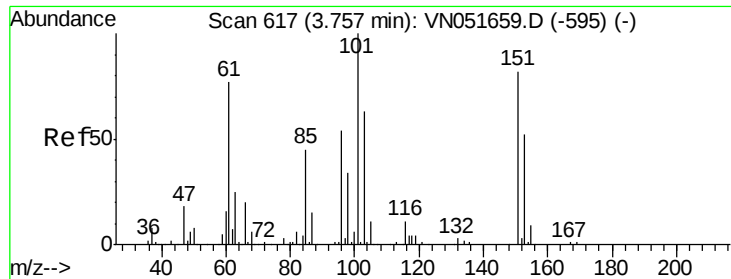
103 70.1 51.1 76.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.313 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

I.BLK

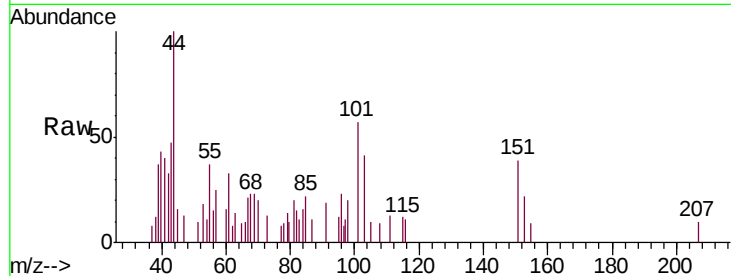
Tgt Ion:101 Resp: 2448

Ion Ratio Lower Upper

101 100

85 12.1 35.6 53.4#

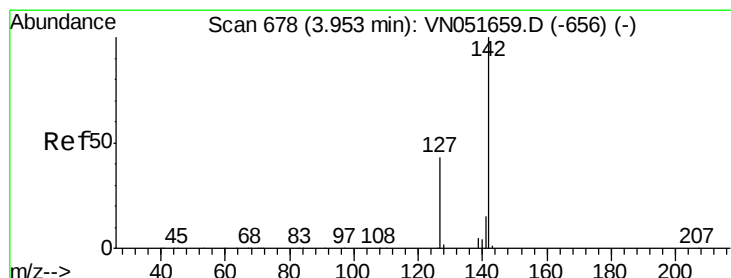
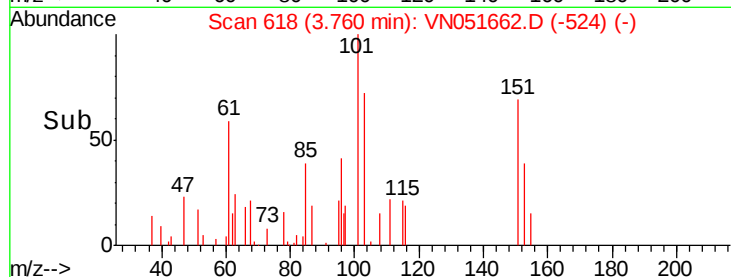
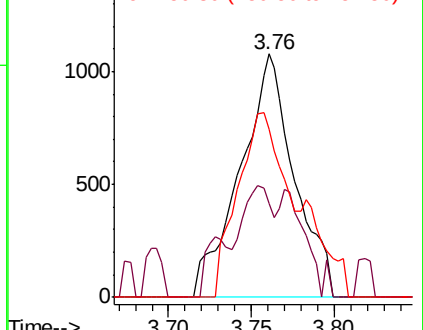
151 67.8 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.276 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

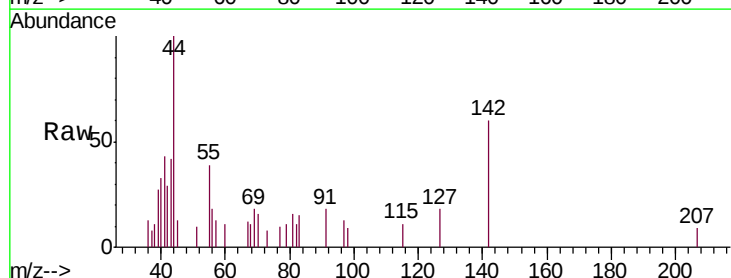
Tgt Ion:142 Resp: 2637

Ion Ratio Lower Upper

142 100

127 23.9 34.7 52.1#

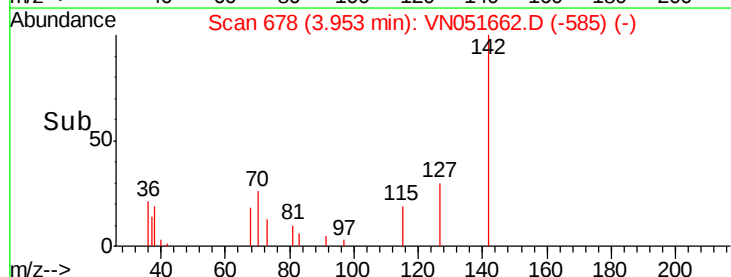
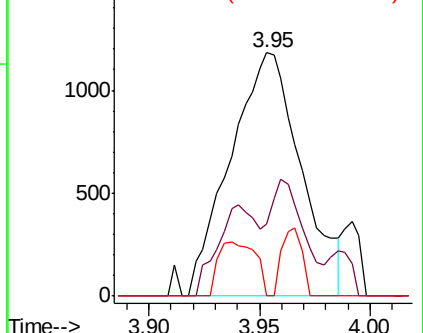
141 8.0 11.4 17.2#

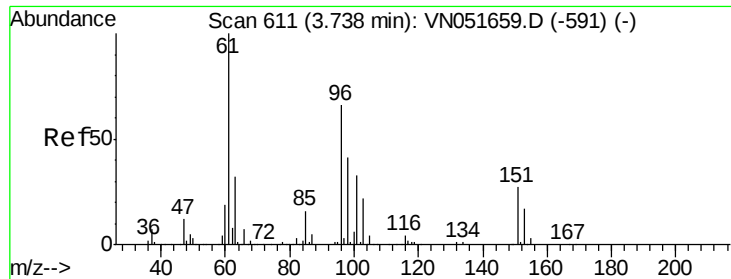


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.376 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

I.BLK

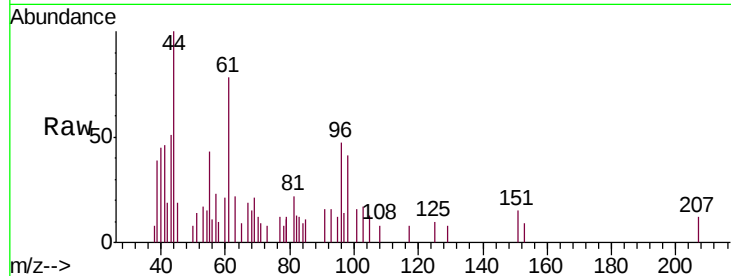
Tgt Ion: 96 Resp: 2744

Ion Ratio Lower Upper

96 100

61 200.1 121.4 182.0#

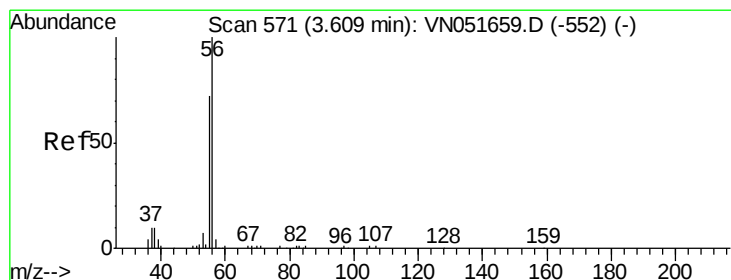
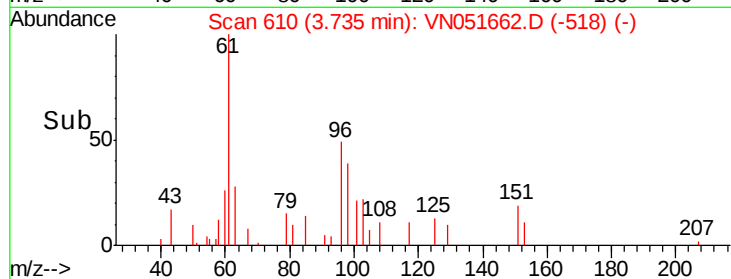
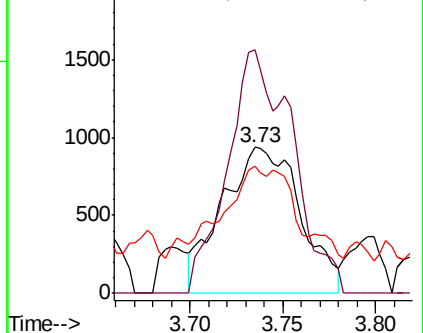
98 72.3 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#13

Acrolein

Concen: 1.355 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN051662.D

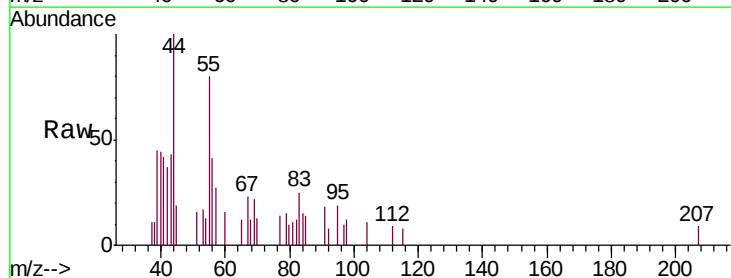
Acq: 4 Oct 2018 12:54

Tgt Ion: 56 Resp: 595

Ion Ratio Lower Upper

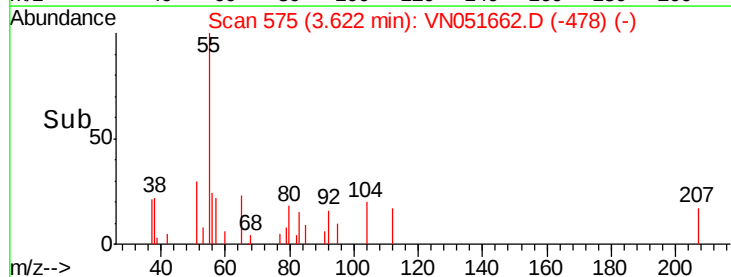
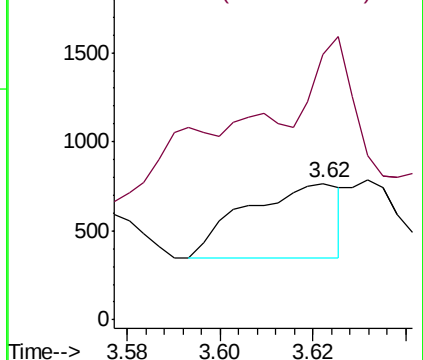
56 100

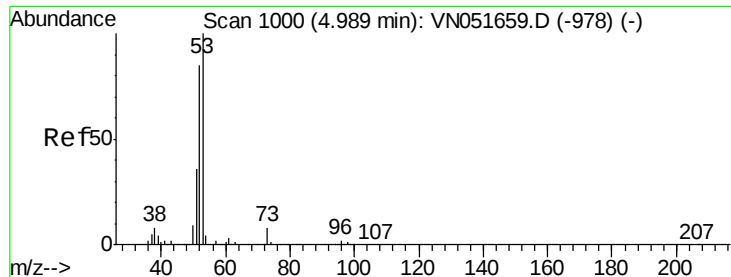
55 84.9 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acrylonitrile

Concen: 0.311 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.01 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

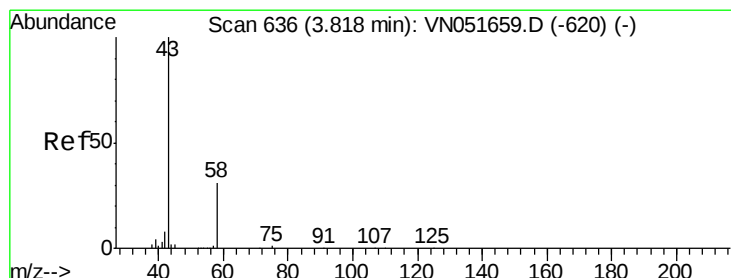
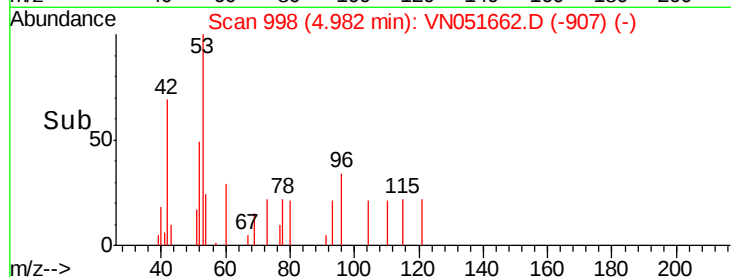
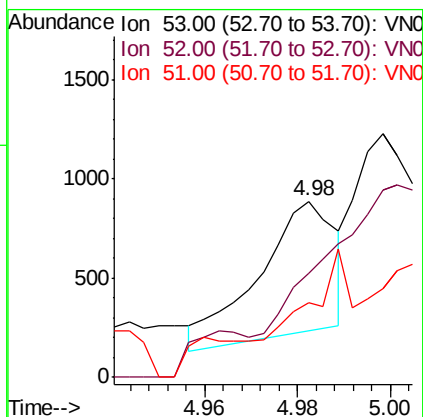
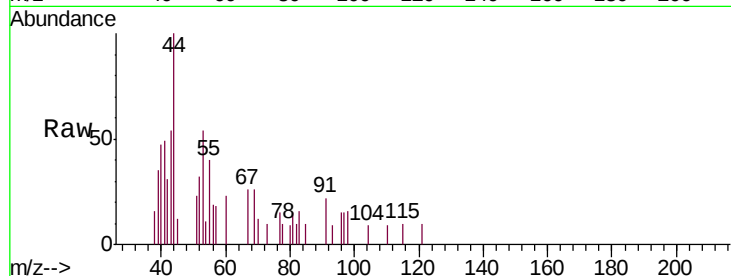
Tgt Ion: 53 Resp: 755

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 51.4 30.3 45.5#



#16

Acetone

Concen: 0.319 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051662.D

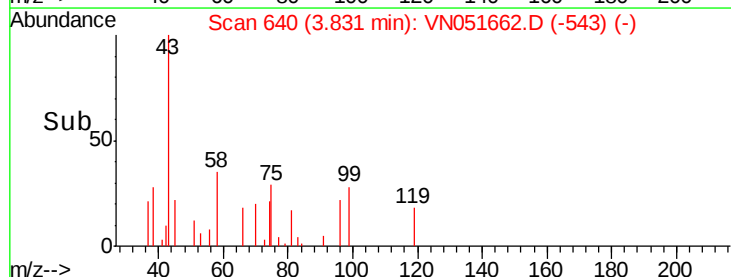
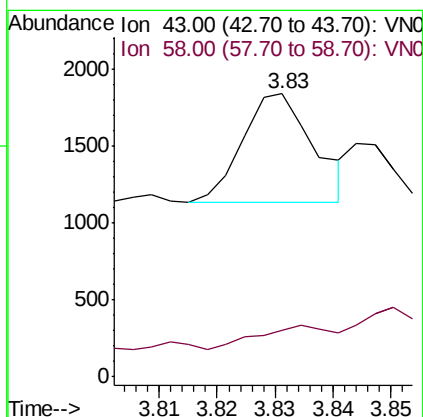
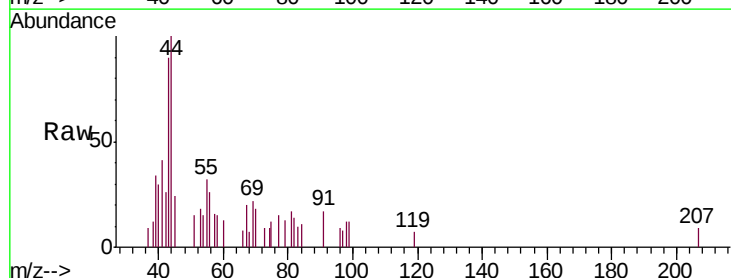
Acq: 4 Oct 2018 12:54

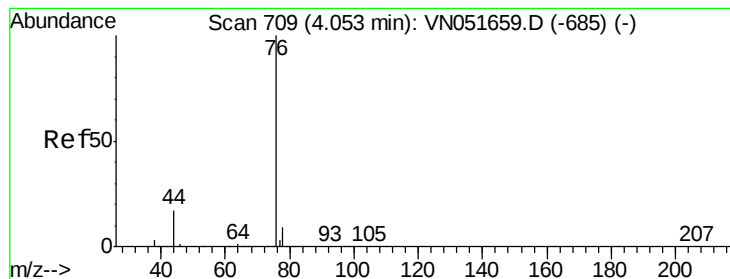
Tgt Ion: 43 Resp: 604

Ion Ratio Lower Upper

43 100

58 12.6 24.3 36.5#





#17

Carbon Disulfide

Concen: 1.433 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

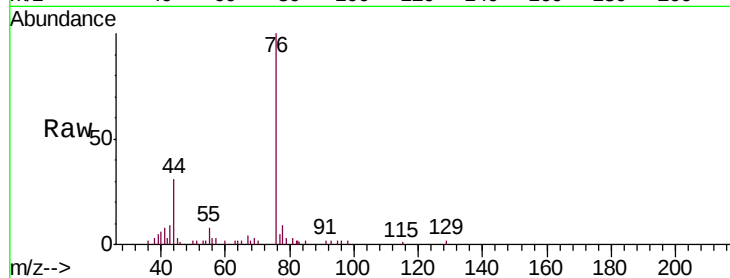
I.BLK

Tgt Ion: 76 Resp: 31775

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

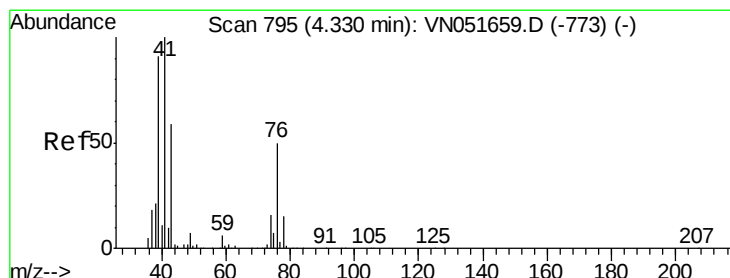
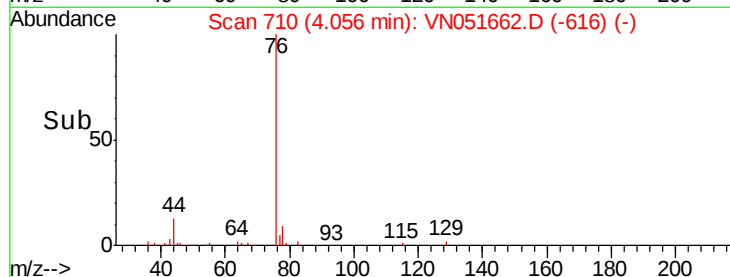
4.06

10000

5000

0

Time-->



#18

Methyl Acetate

Concen: 0.253 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051662.D

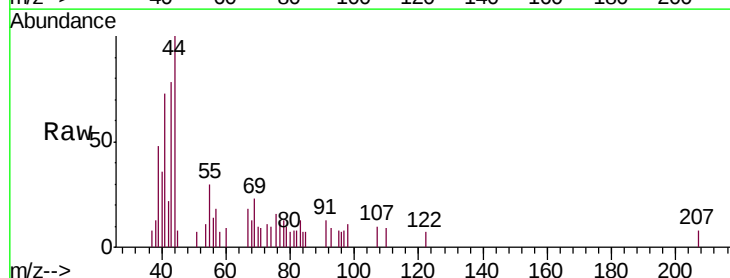
Acq: 4 Oct 2018 12:54

Tgt Ion: 43 Resp: 1443

Ion Ratio Lower Upper

43 100

74 25.6 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

2000

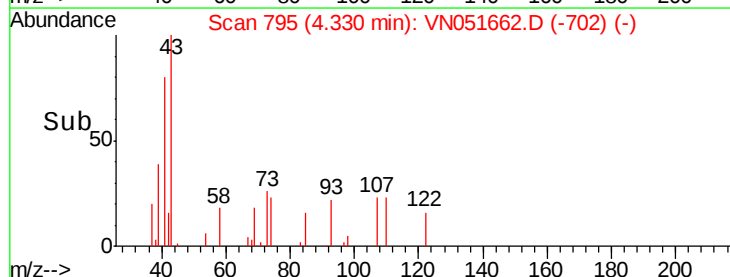
1500

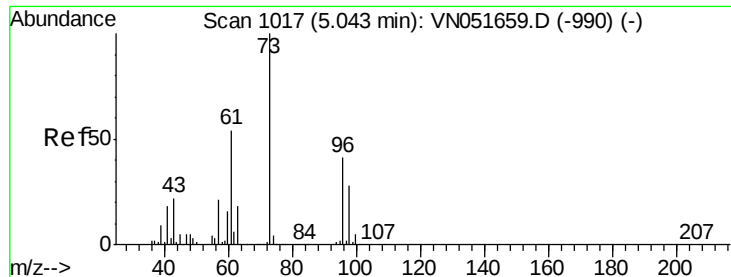
1000

500

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.416 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

I.BLK

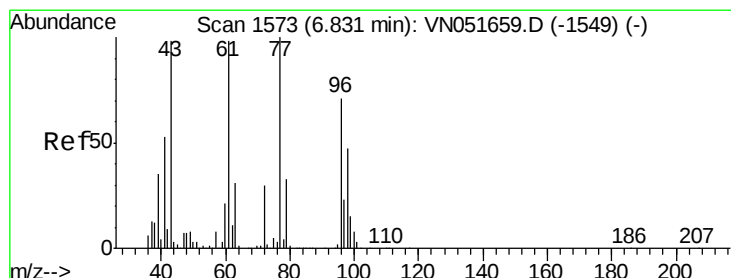
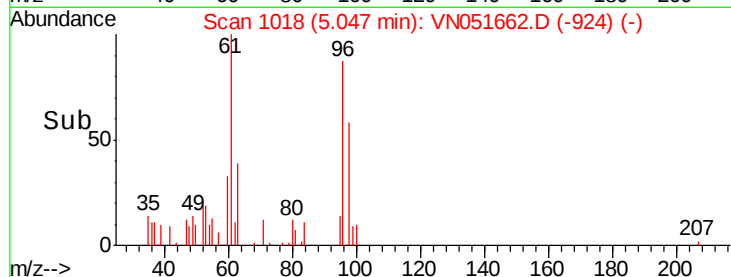
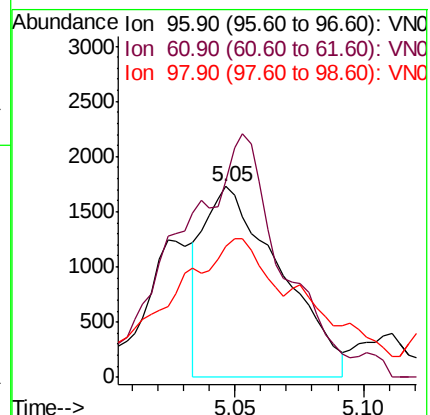
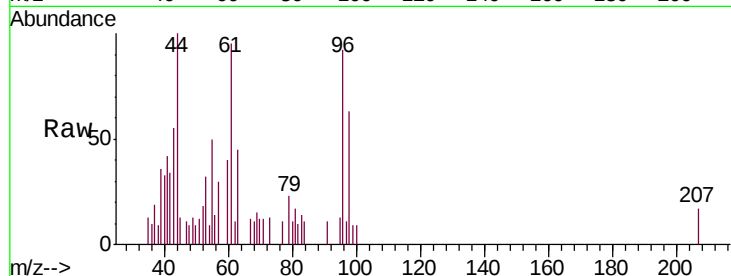
Tgt Ion: 96 Resp: 3595

Ion Ratio Lower Upper

96 100

61 103.9 104.7 157.1#

98 48.0 54.6 82.0#



#27

cis-1,2-Dichloroethene

Concen: 0.200 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

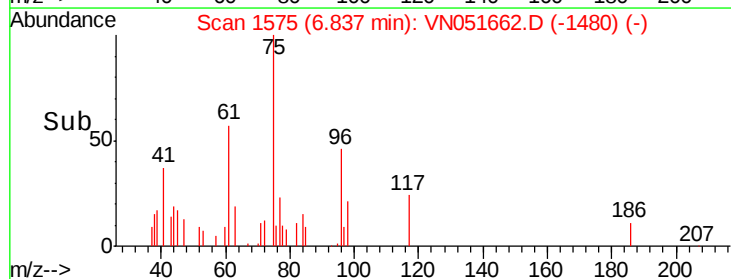
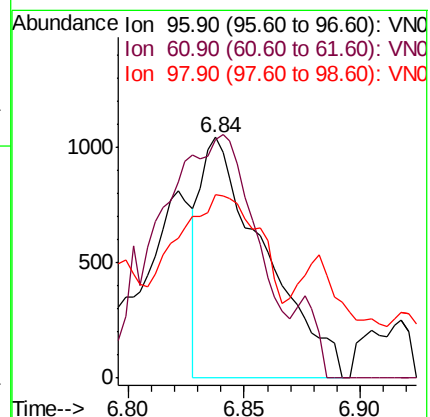
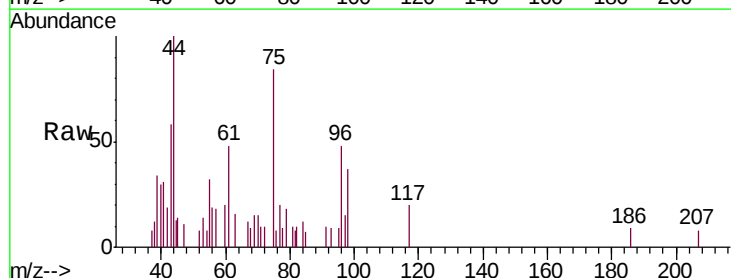
Tgt Ion: 96 Resp: 2008

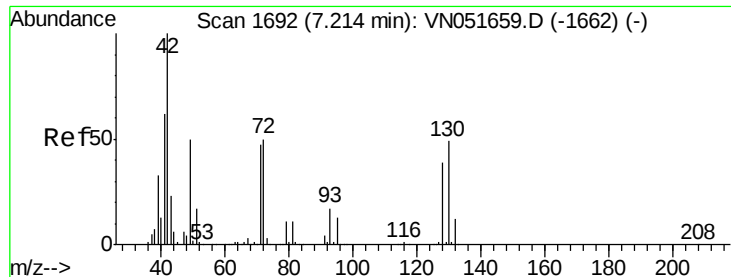
Ion Ratio Lower Upper

96 100

61 156.4 0.0 275.4

98 84.9 0.0 129.6

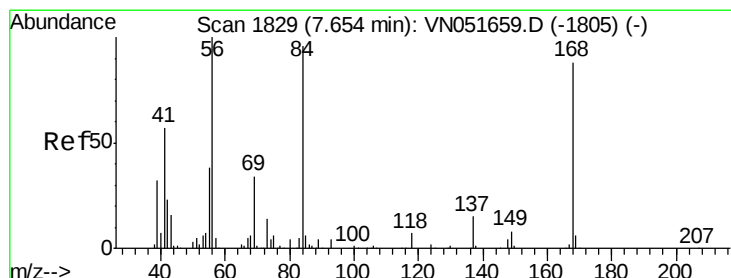
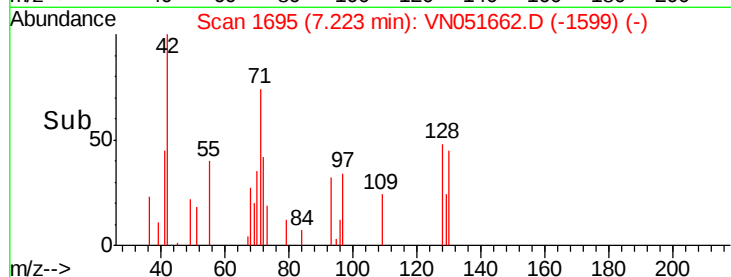
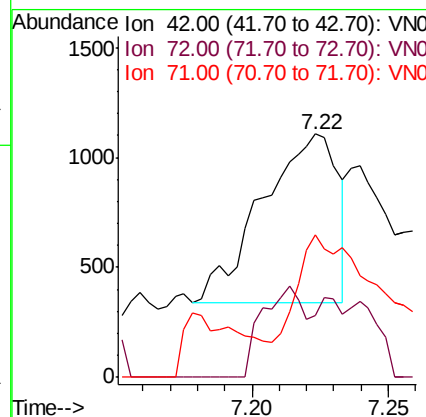
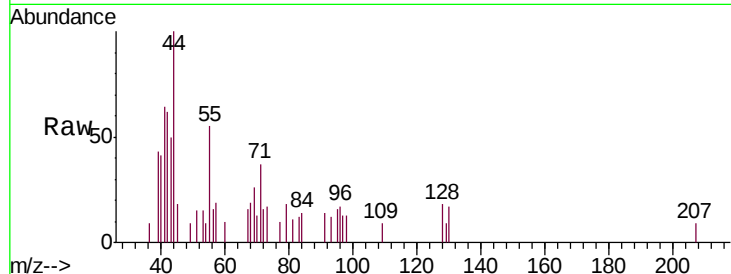




#29
Tetrahydrofuran
Concen: 0.808 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

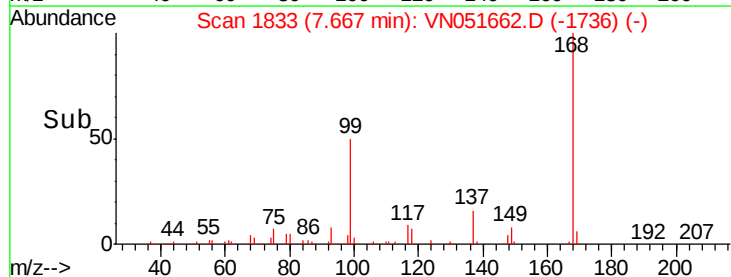
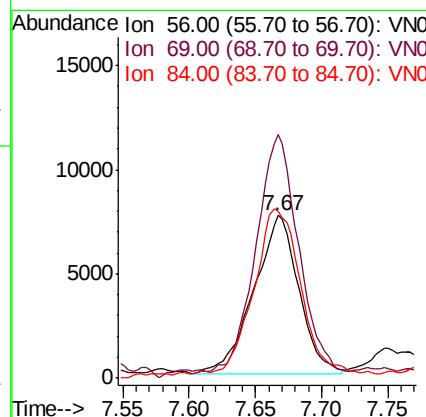
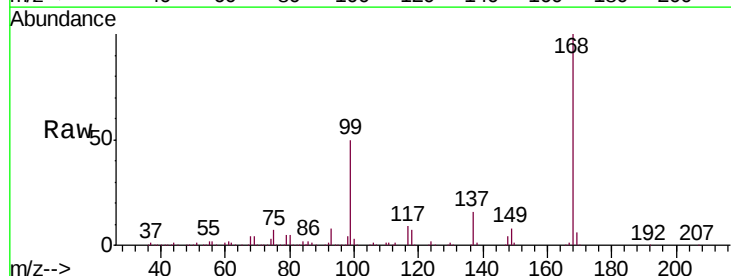
Instrument :
MSVOA_N
ClientSampled :
I.BLK

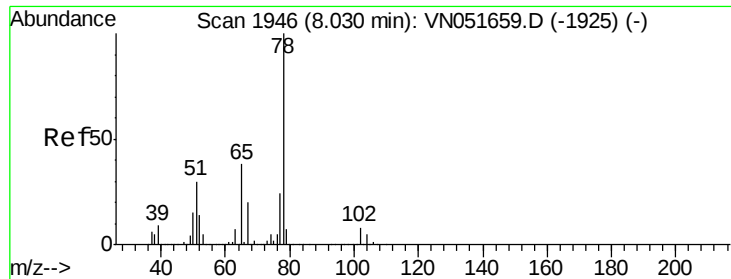
Tgt Ion: 42 Resp: 1481
Ion Ratio Lower Upper
42 100
72 3.4 40.1 60.1#
71 99.0 38.0 57.0#



#31
Cyclohexane
Concen: 1.274 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion: 56 Resp: 17888
Ion Ratio Lower Upper
56 100
69 149.2 27.5 41.3#
84 102.5 76.7 115.1

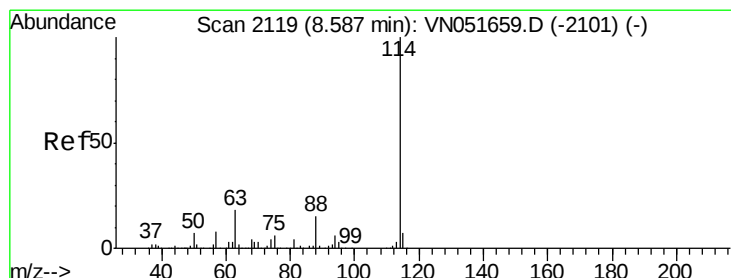
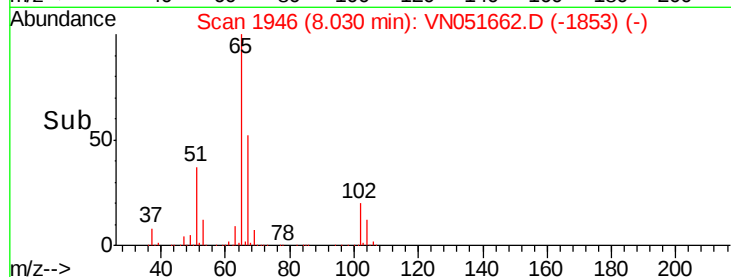
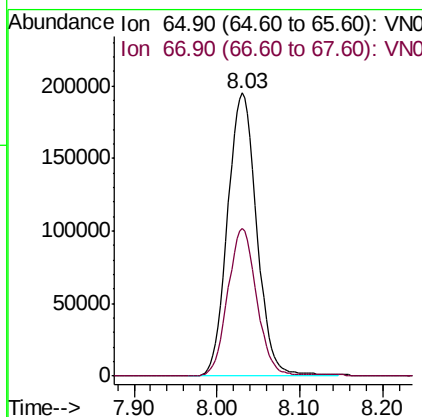
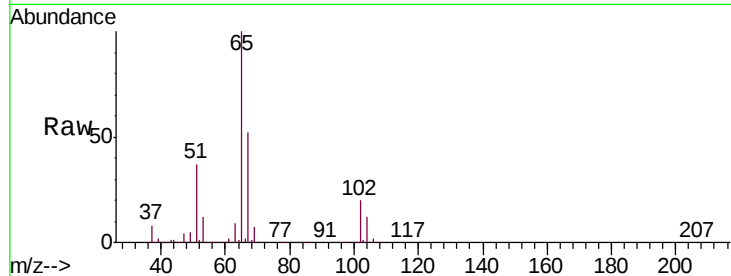




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

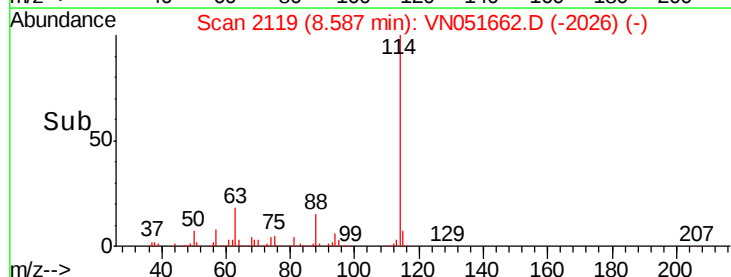
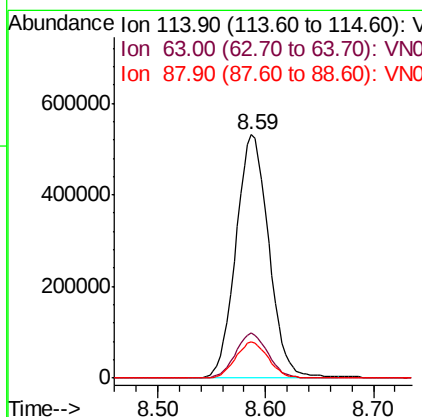
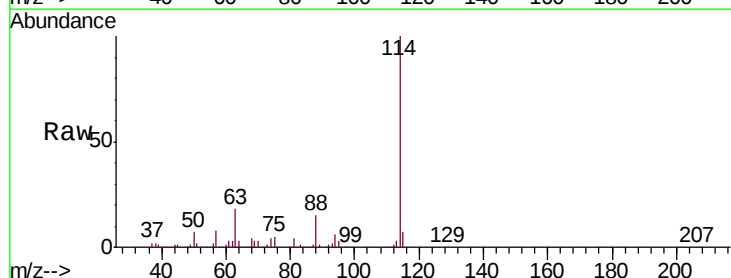
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

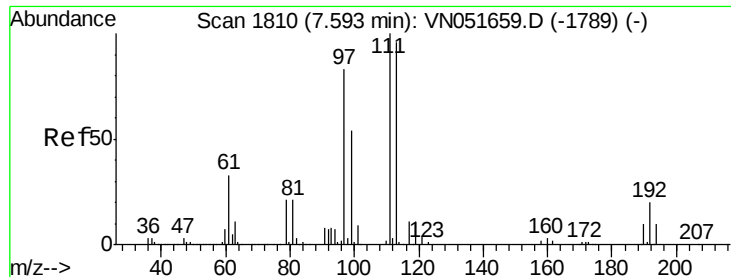
Tgt Ion: 65 Resp: 478977
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion: 114 Resp: 1130820
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 36.2
 88 14.9 0.0 30.2

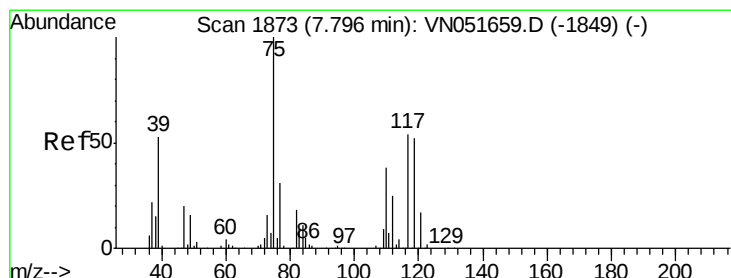
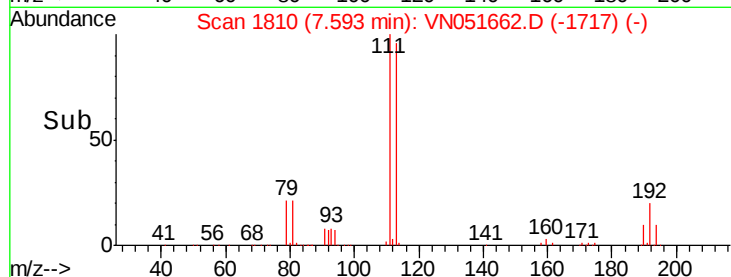
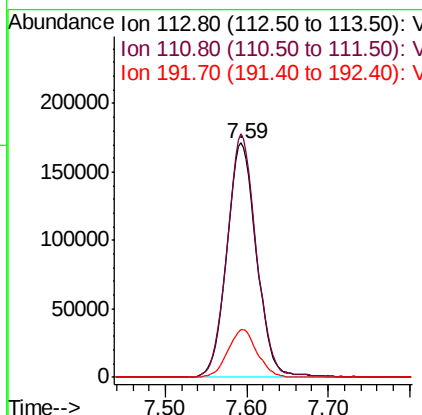
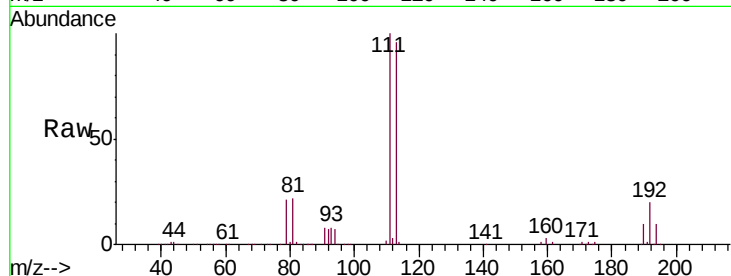




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

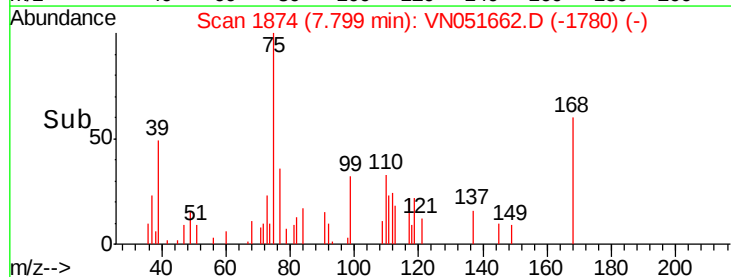
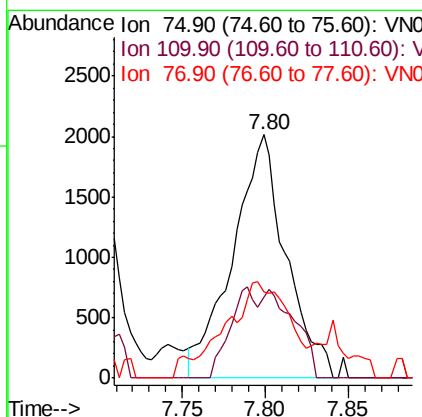
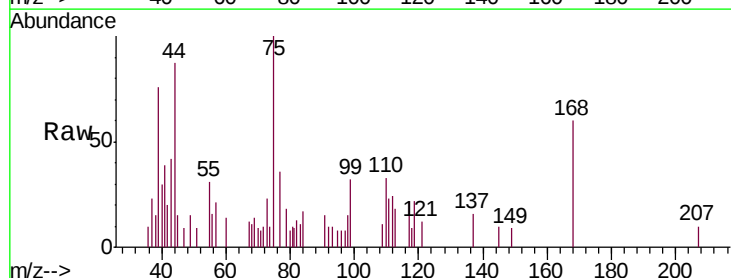
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

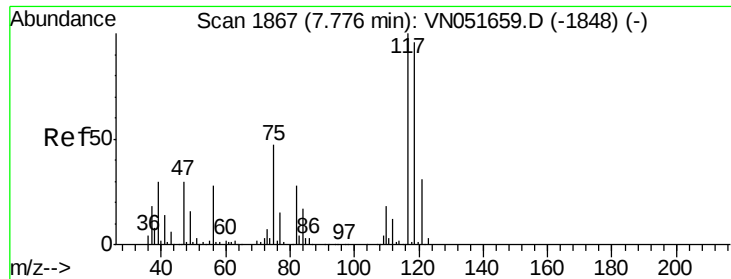
Tgt Ion:113 Resp: 436107
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.8 122.8
 192 20.3 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 0.381 ug/l
 RT: 7.80 min Scan# 1874
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion: 75 Resp: 4503
 Ion Ratio Lower Upper
 75 100
 110 19.2 19.3 57.8#
 77 45.0 24.7 37.1#

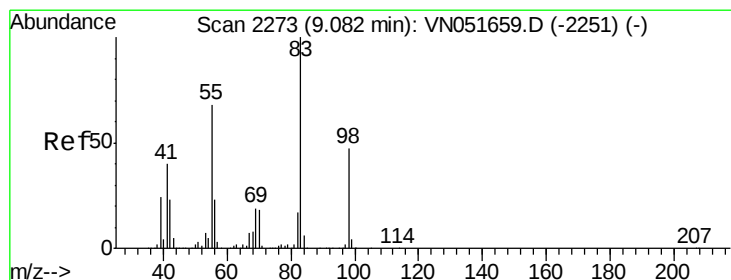
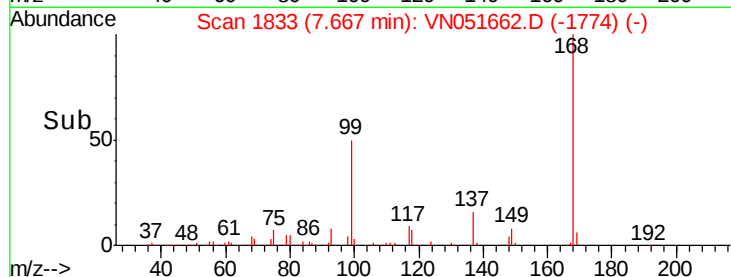
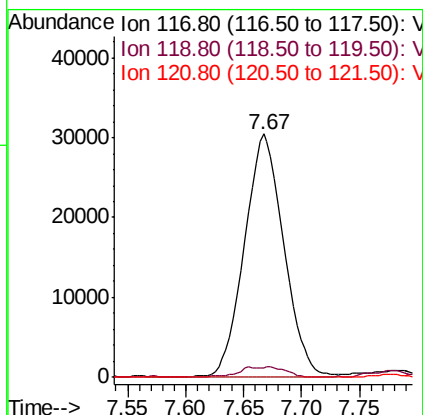
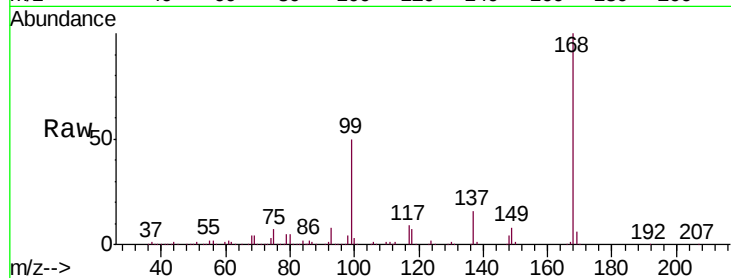




#38
Carbon Tetrachloride
Concen: 5.087 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

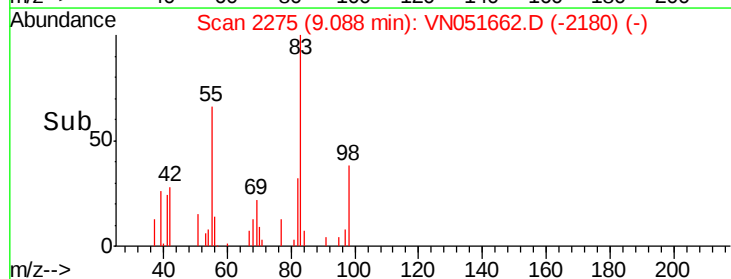
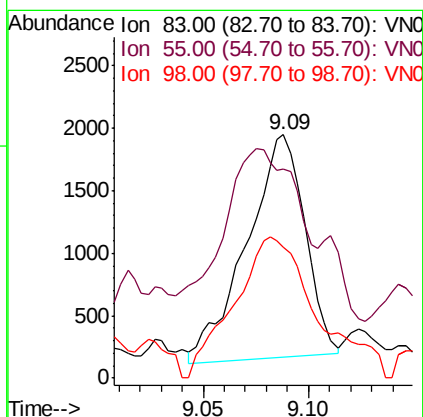
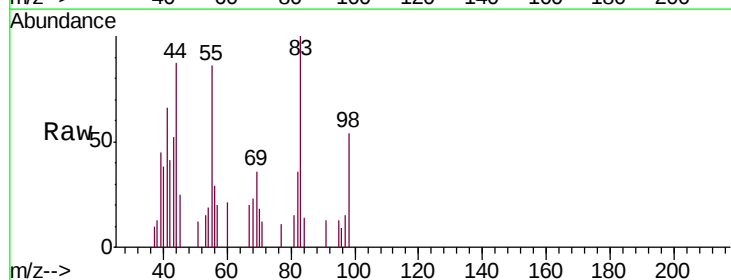
Instrument :
MSVOA_N
ClientSampled :
I.BLK

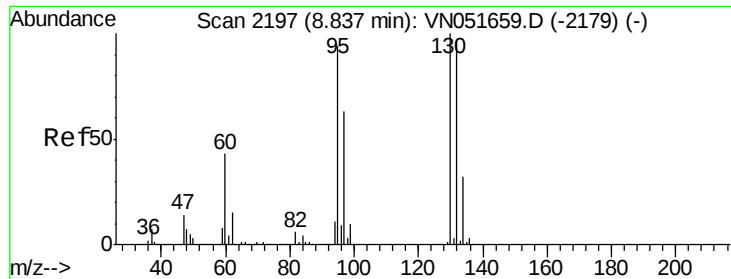
Tgt Ion: 117 Resp: 72144
Ion Ratio Lower Upper
117 100
119 4.0 77.0 115.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.231 ug/l
RT: 9.09 min Scan# 2275
Delta R.T. 0.01 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion: 83 Resp: 3434
Ion Ratio Lower Upper
83 100
55 53.7 54.3 81.5#
98 60.3 37.4 56.2#





#44

Trichloroethene

Concen: 0.354 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

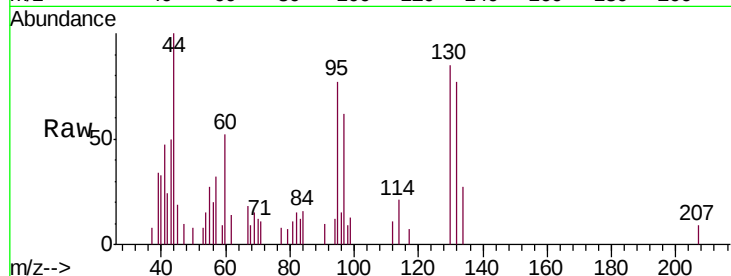
I.BLK

Tgt Ion: 130 Resp: 3522

Ion Ratio Lower Upper

130 100

95 81.0 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN051659.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN051659.D (-2179) (-)

8.84

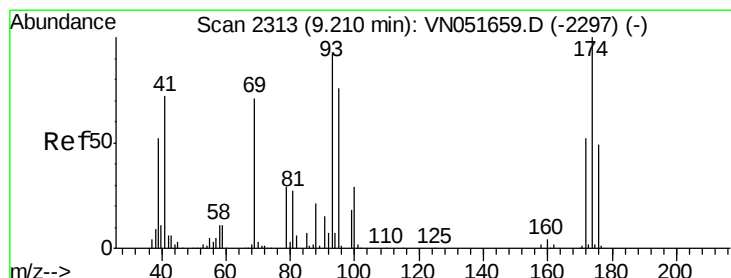
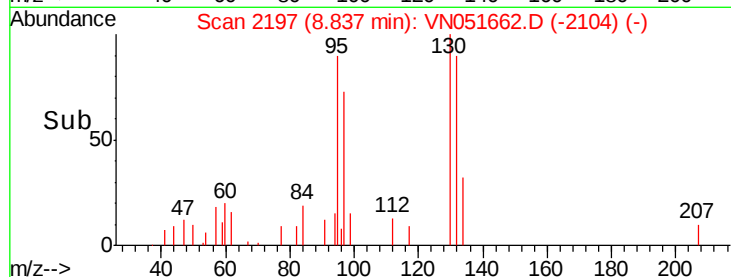
1500

1000

500

0

Time-->



#46

Dibromomethane

Concen: 0.299 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.01 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

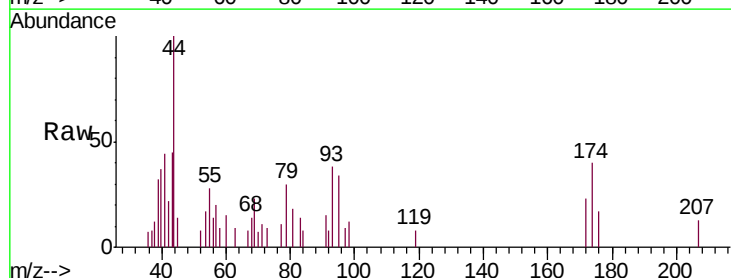
Tgt Ion: 93 Resp: 1800

Ion Ratio Lower Upper

93 100

95 84.2 66.6 100.0

174 87.6 85.9 128.9



Abundance Ion 92.80 (92.50 to 93.50): VN051659.D (-2297) (-)

Ion 94.80 (94.50 to 95.50): VN051659.D (-2297) (-)

Ion 173.70 (173.40 to 174.40): VN051659.D (-2297) (-)

9.22

1200

1000

800

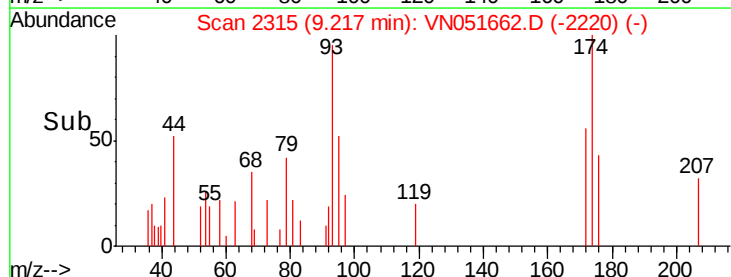
600

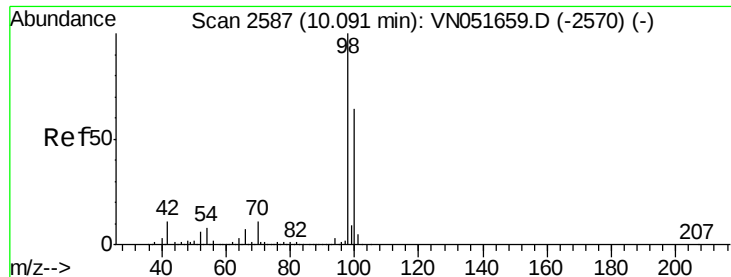
400

200

0

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

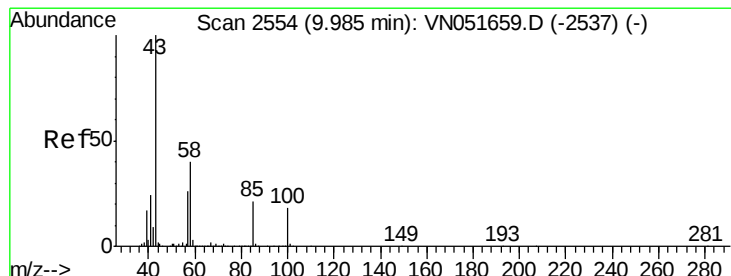
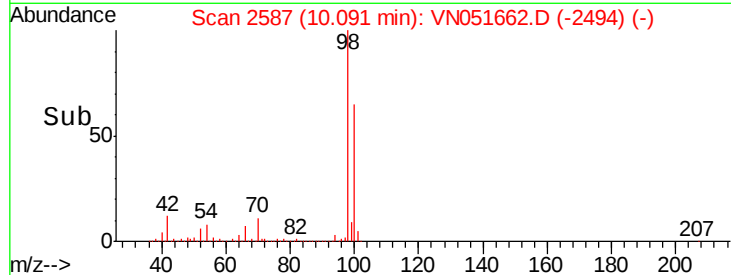
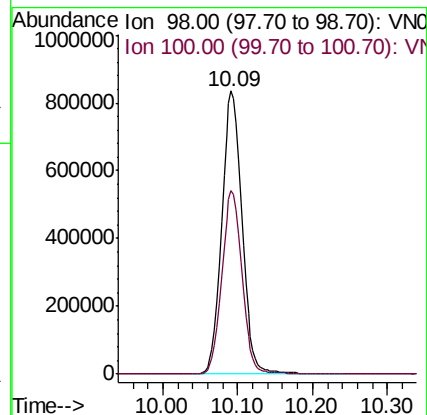
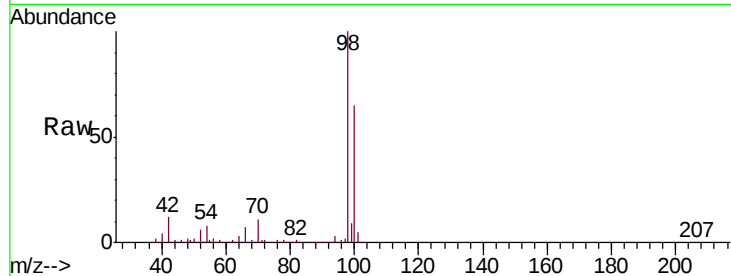
I.BLK

Tgt Ion: 98 Resp: 1568784

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.546 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051662.D

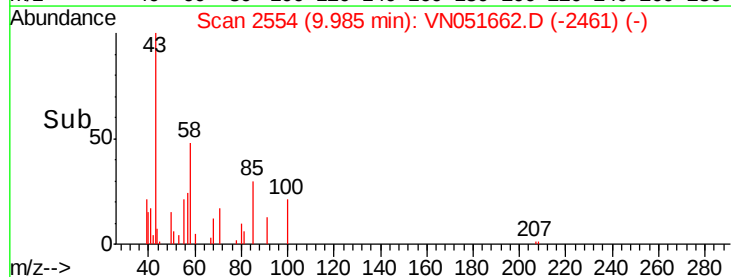
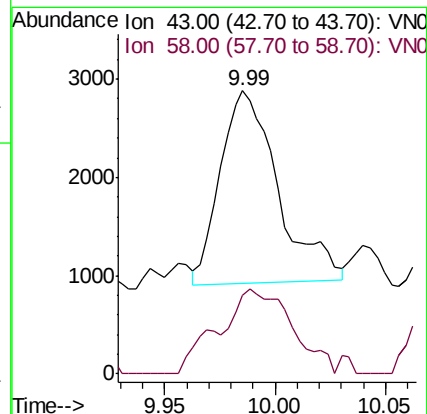
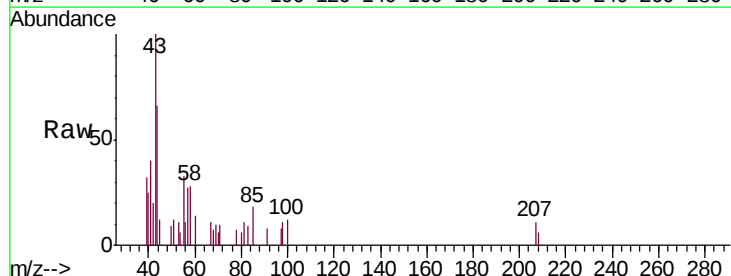
Acq: 4 Oct 2018 12:54

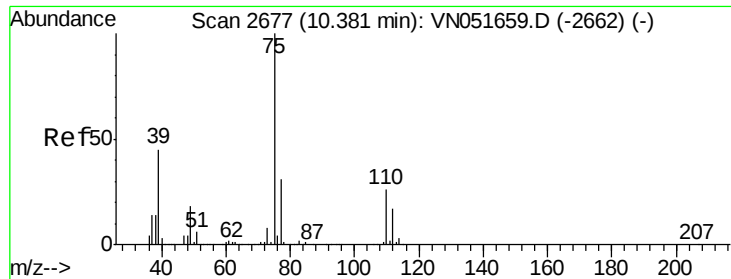
Tgt Ion: 43 Resp: 3555

Ion Ratio Lower Upper

43 100

58 56.1 32.2 48.2#





#53

t-1,3-Dichloropropene

Concen: 0.252 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

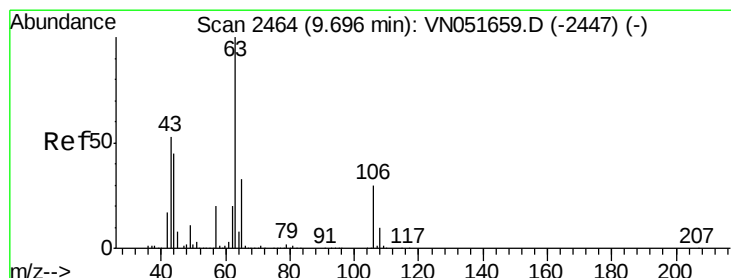
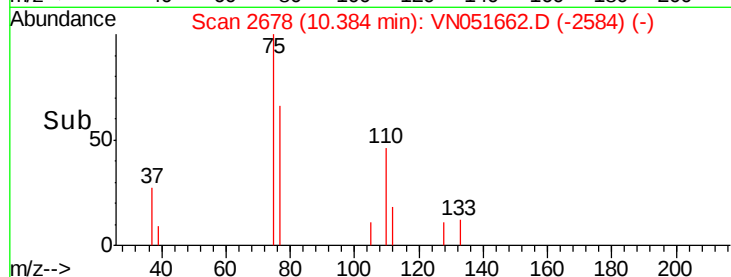
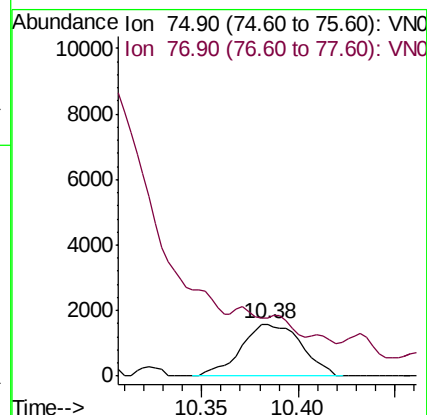
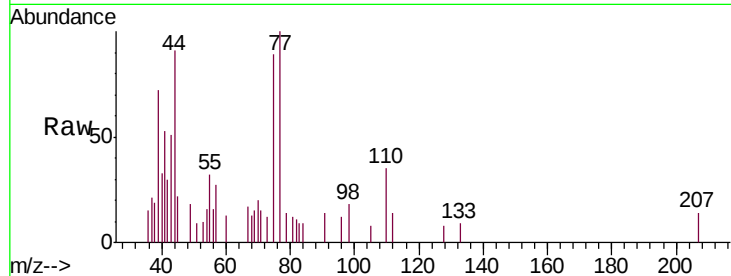
I.BLK

Tgt Ion: 75 Resp: 3443

Ion Ratio Lower Upper

75 100

77 48.5 25.5 38.3#



#58

2-Chloroethyl Vinyl ether

Concen: 0.403 ug/l

RT: 9.70 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VN051662.D

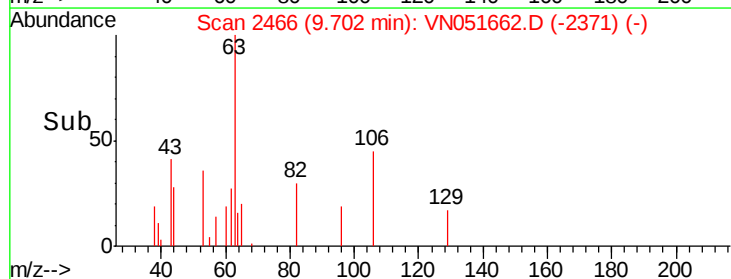
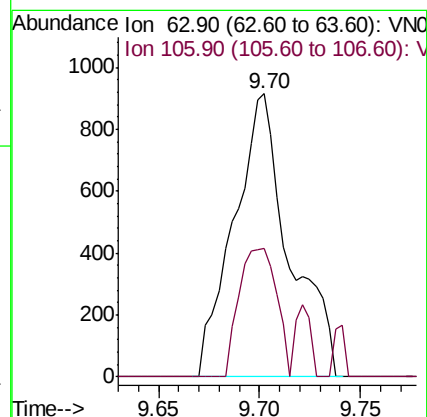
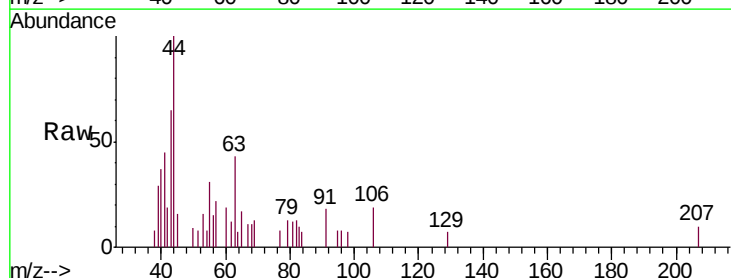
Acq: 4 Oct 2018 12:54

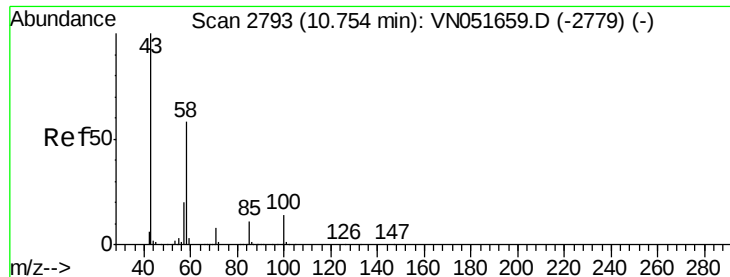
Tgt Ion: 63 Resp: 1751

Ion Ratio Lower Upper

63 100

106 31.0 24.3 36.5

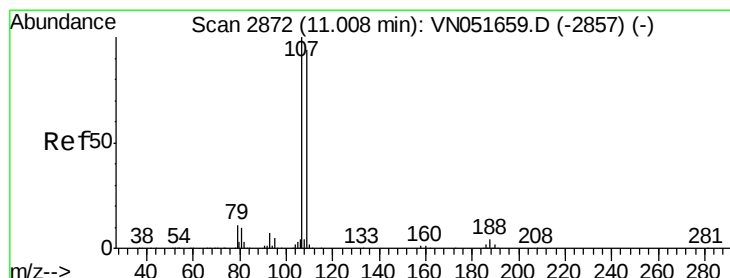
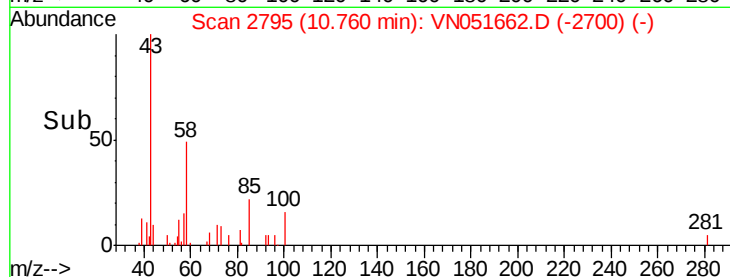
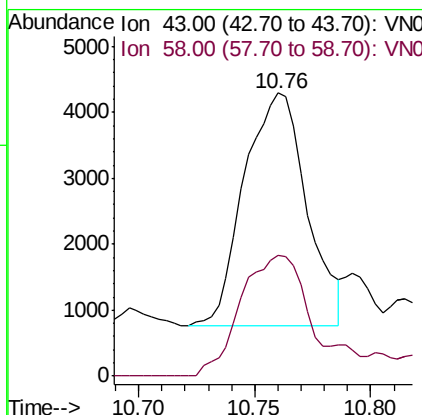
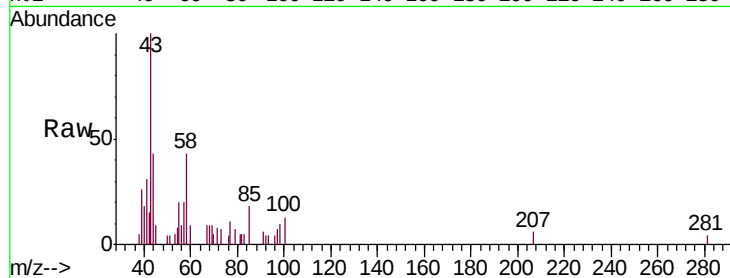




#59
2-Hexanone
Concen: 1.501 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

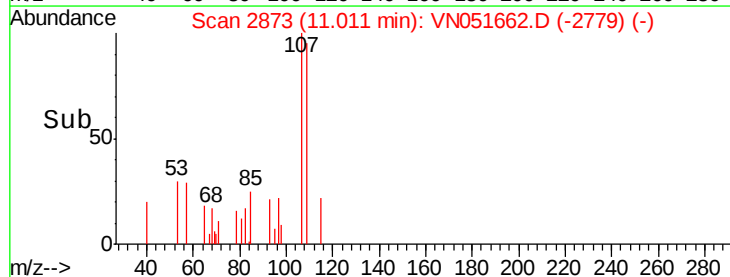
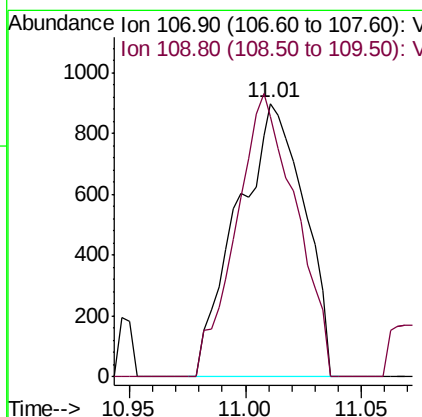
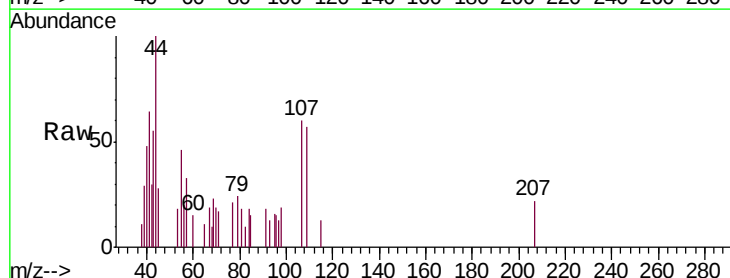
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

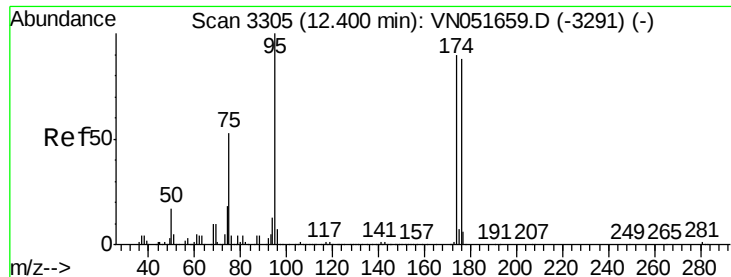
Tgt Ion: 43 Resp: 6639
Ion Ratio Lower Upper
43 100
58 60.0 28.8 86.4



#61
1,2-Dibromoethane
Concen: 0.206 ug/l
RT: 11.01 min Scan# 2873
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion: 107 Resp: 1806
Ion Ratio Lower Upper
107 100
109 92.7 75.4 113.0





#62

4-Bromofluorobenzene

Concen: 0.206 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

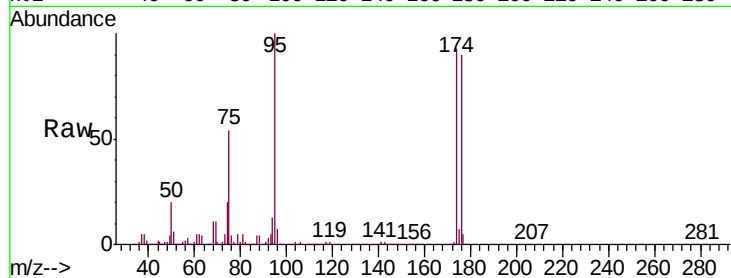
Tgt Ion: 95 Resp: 445391

Ion Ratio Lower Upper

95 100

174 91.4 0.0 182.8

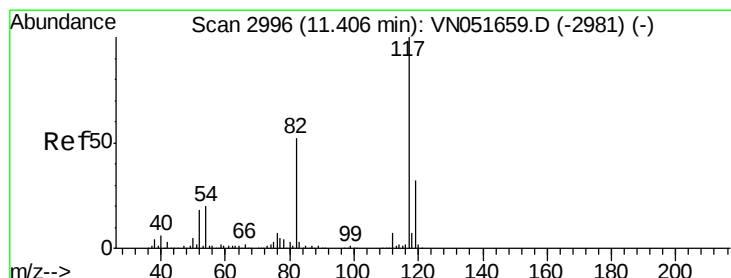
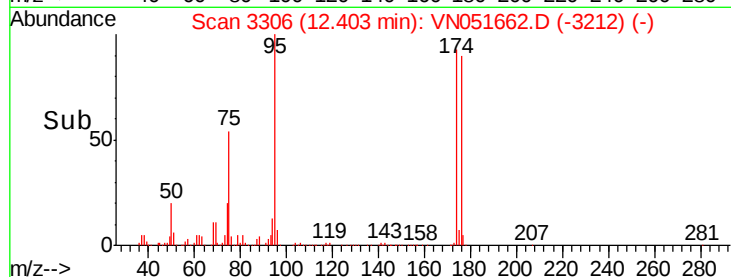
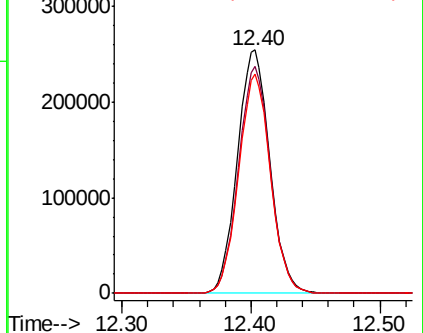
176 88.4 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

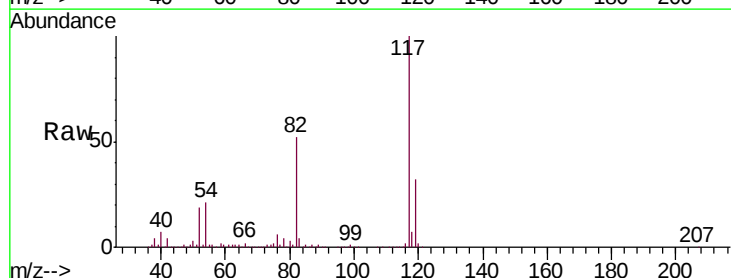
Tgt Ion: 117 Resp: 948726

Ion Ratio Lower Upper

117 100

82 52.3 41.3 61.9

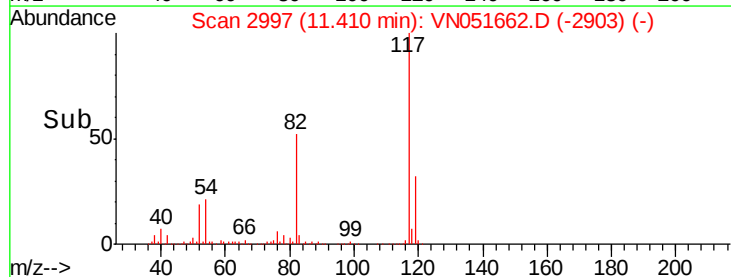
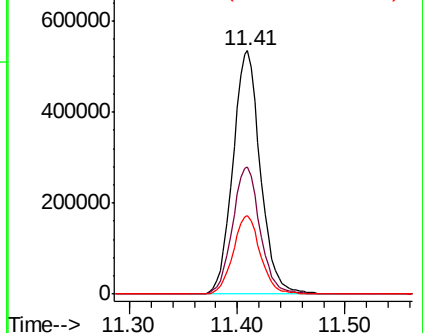
119 32.0 25.9 38.9

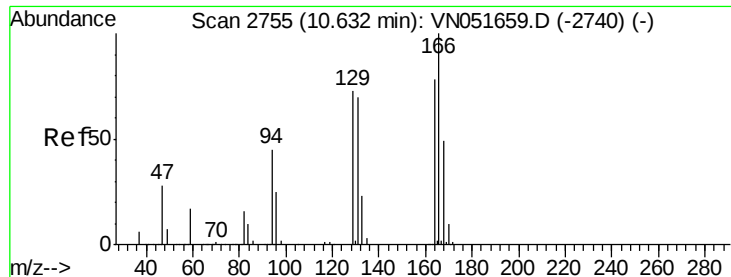


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

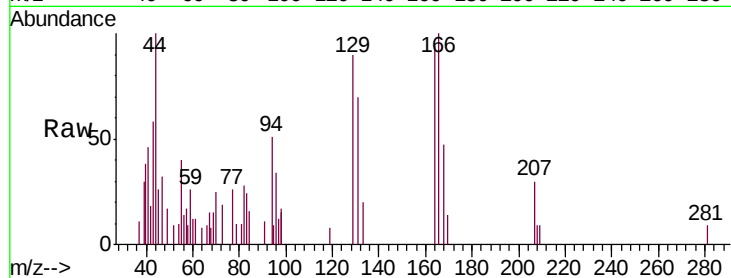




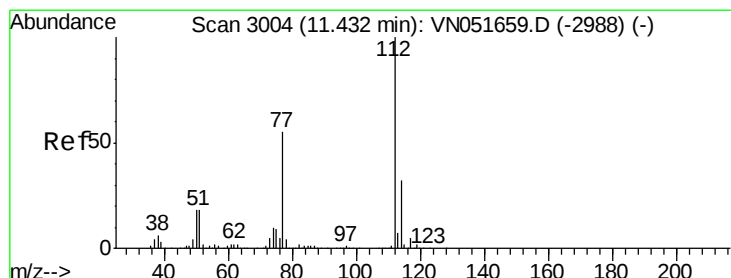
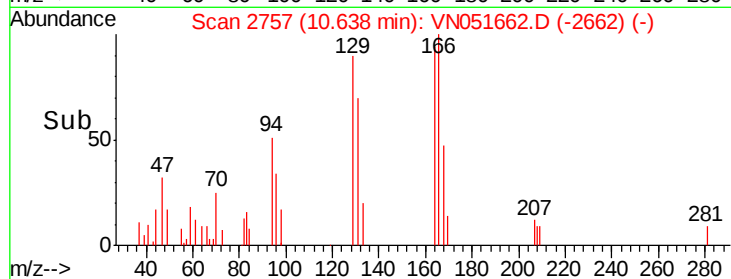
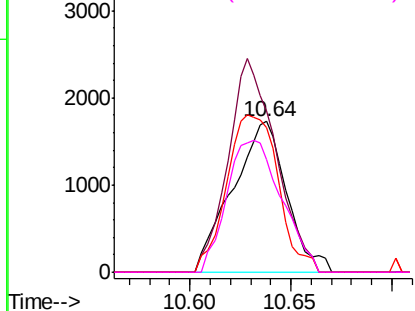
#64
Tetrachloroethene
Concen: 0.387 ug/l
RT: 10.64 min Scan# 2757
Delta R.T. 0.01 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tgt Ion:164 Resp: 3239
Ion Ratio Lower Upper
164 100
166 106.6 103.0 154.6
129 96.2 75.2 112.8
131 74.4 71.7 107.5

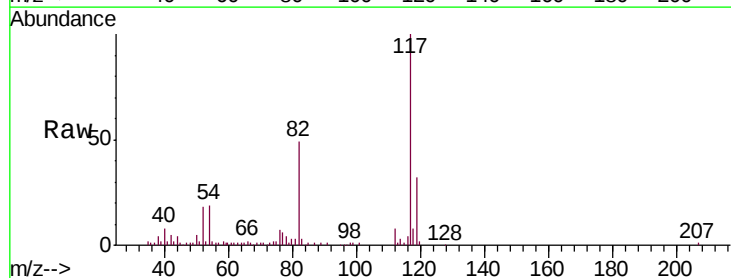


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

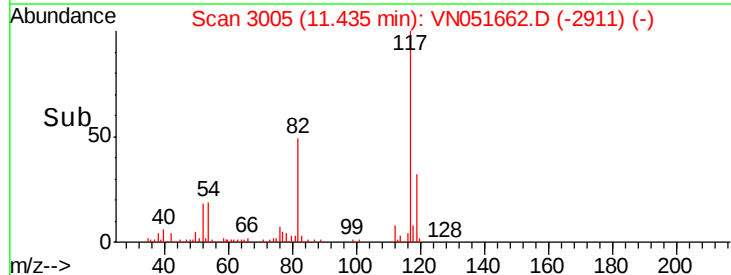
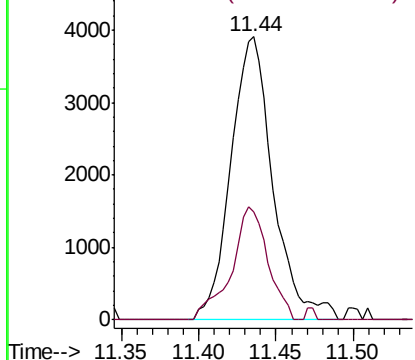


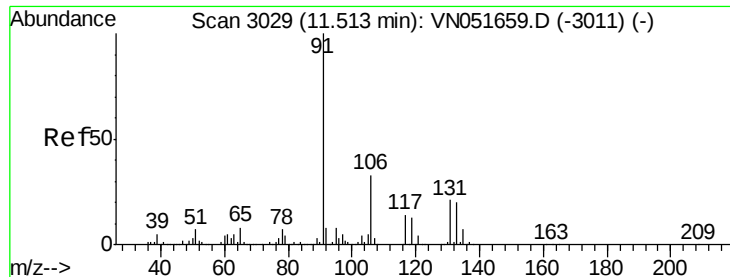
#65
Chlorobenzene
Concen: 0.314 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion:112 Resp: 7389
Ion Ratio Lower Upper
112 100
114 38.0 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 0.244 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

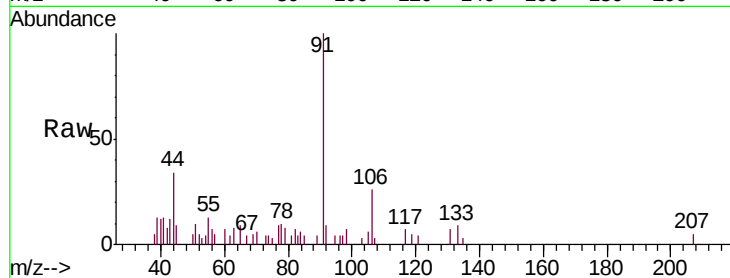
I.BLK

Tgt Ion: 91 Resp: 9925

Ion Ratio Lower Upper

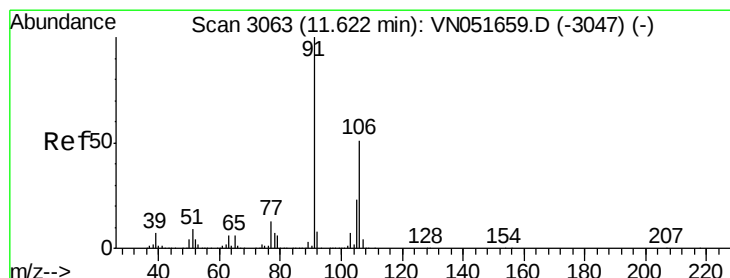
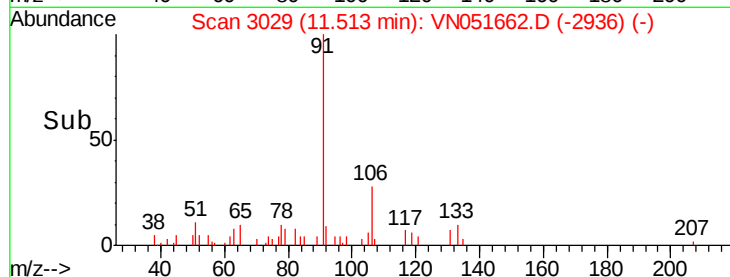
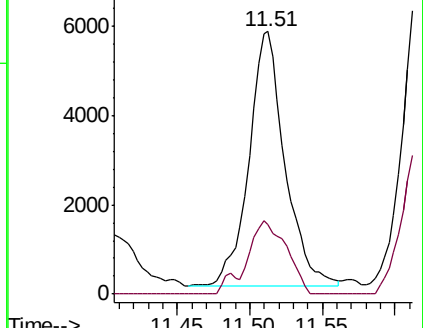
91 100

106 27.2 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VN051659.D (-3011) (-)

Ion 106.00 (105.70 to 106.70): VN051659.D (-3011) (-)



#68

m/p-Xylenes

Concen: 0.520 ug/l

RT: 11.63 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VN051662.D

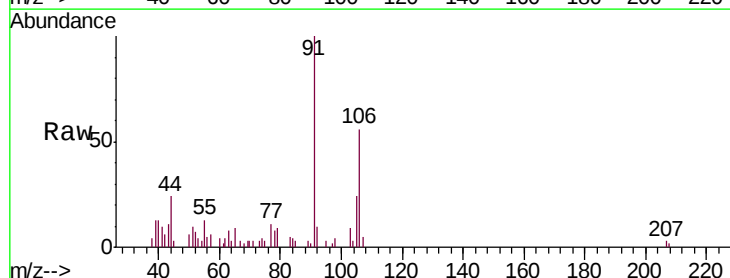
Acq: 4 Oct 2018 12:54

Tgt Ion: 106 Resp: 8454

Ion Ratio Lower Upper

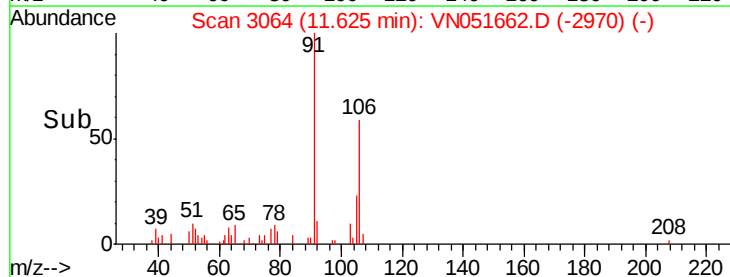
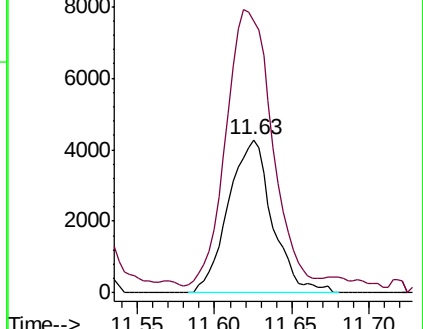
106 100

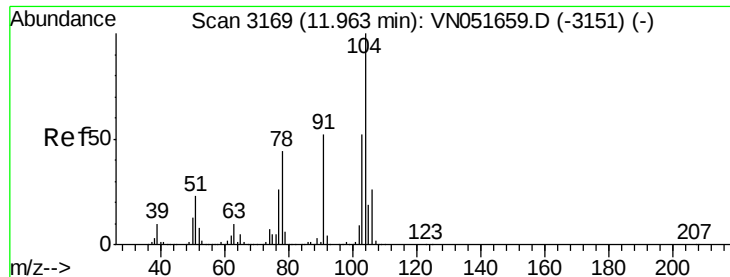
91 187.8 158.4 237.6



Abundance Ion 106.00 (105.70 to 106.70): VN051659.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN051659.D (-3047) (-)

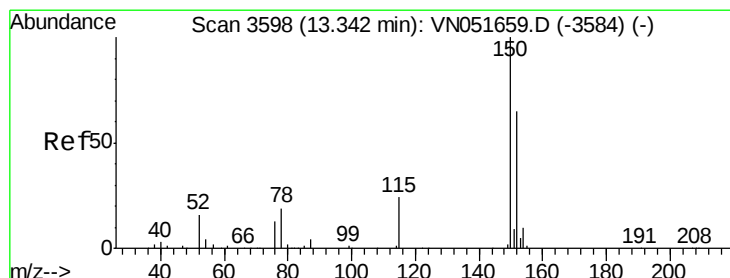
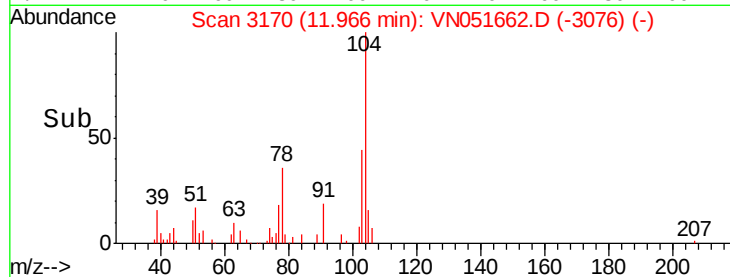
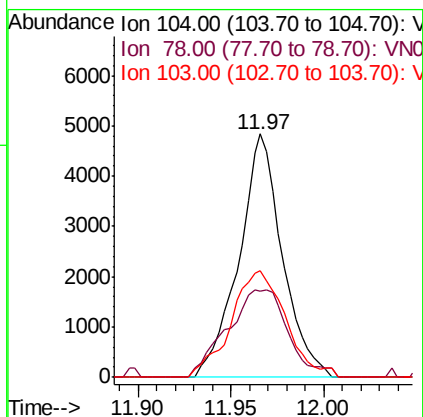
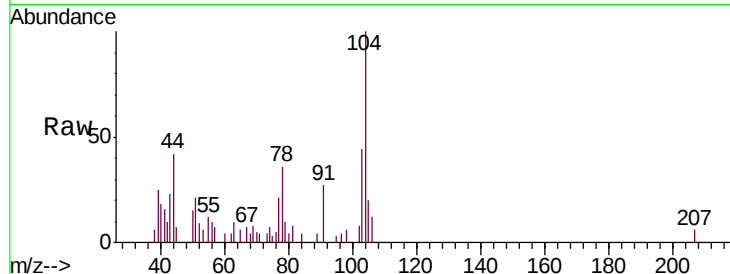




#70
Styrene
Concen: 0.310 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

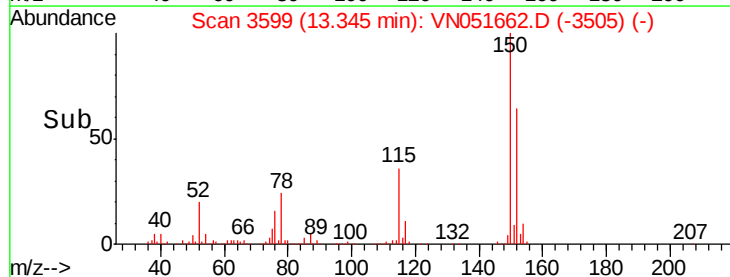
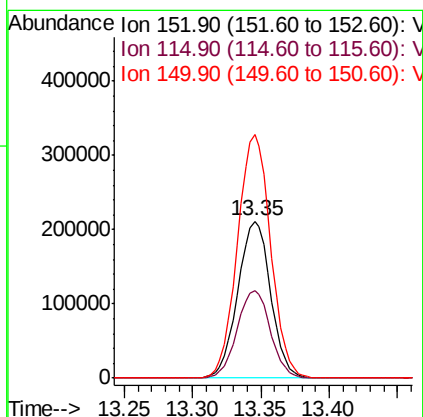
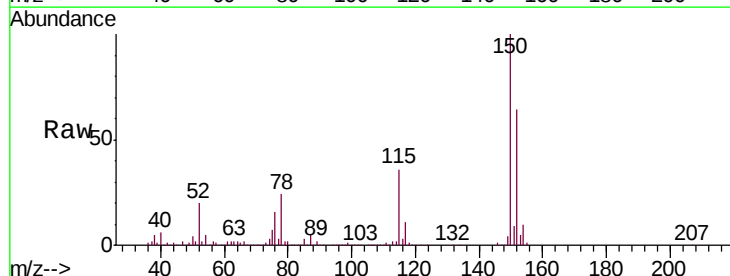
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

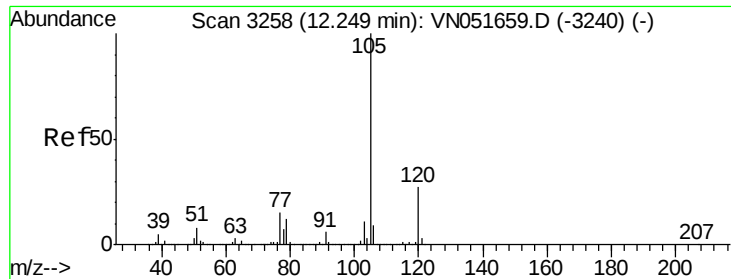
Tgt Ion:104 Resp: 7883
Ion Ratio Lower Upper
104 100
78 50.3 39.3 58.9
103 54.9 45.0 67.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion:152 Resp: 353081
Ion Ratio Lower Upper
152 100
115 56.0 28.6 85.8
150 157.1 0.0 352.4





#73

Isopropylbenzene

Concen: 0.302 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

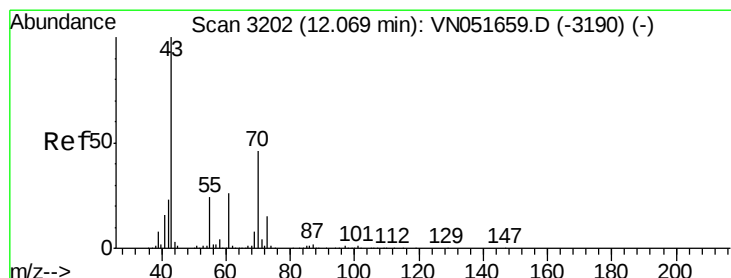
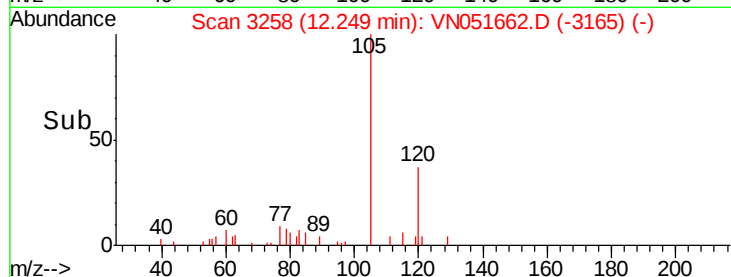
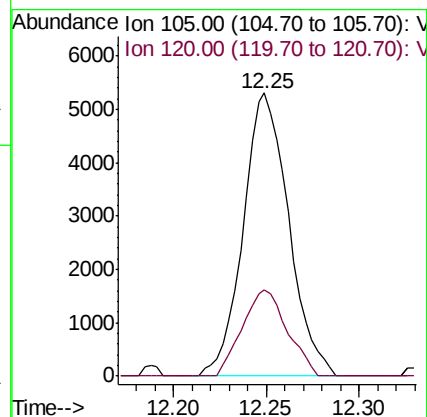
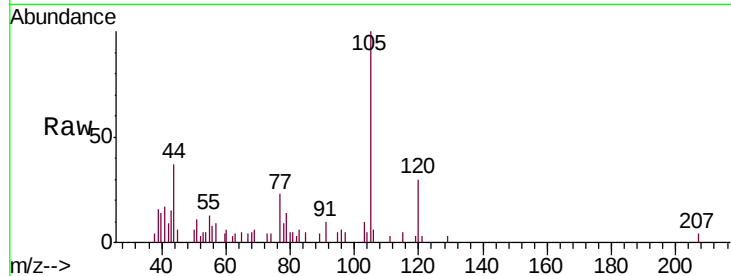
I.BLK

Tgt Ion: 105 Resp: 9078

Ion Ratio Lower Upper

105 100

120 29.8 13.9 41.6



#74

N-ethyl acetate

Concen: 0.800 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Tgt Ion: 43 Resp: 5493

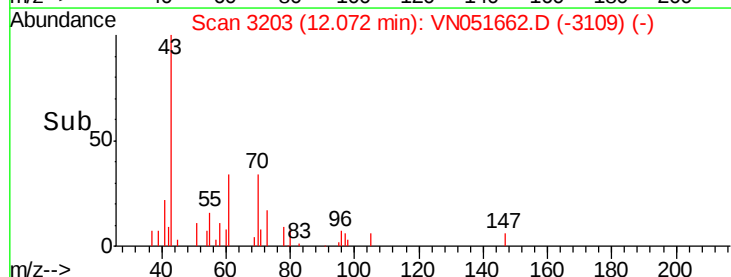
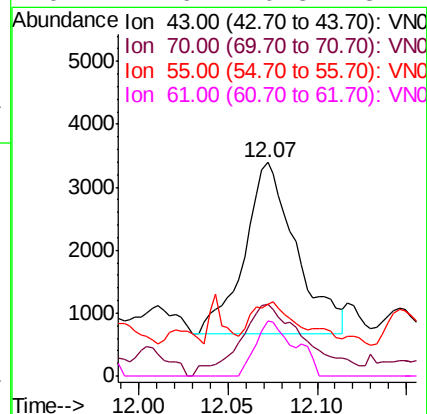
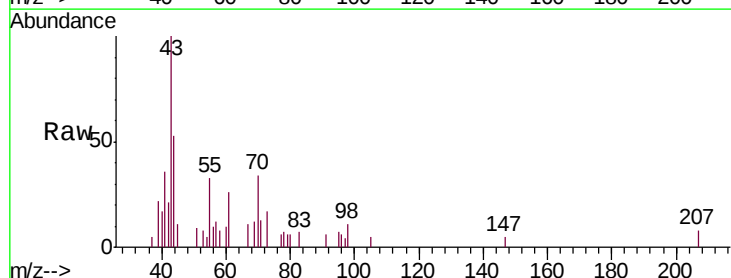
Ion Ratio Lower Upper

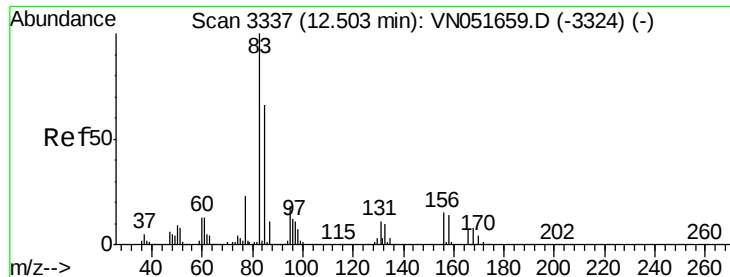
43 100

70 53.6 37.1 55.7

55 13.5 19.1 28.7#

61 24.6 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 0.320 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

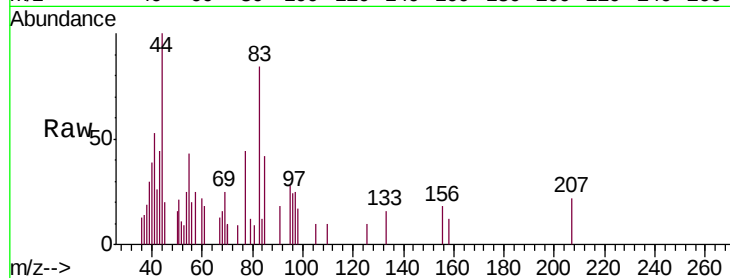
Tgt Ion: 83 Resp: 2078

Ion Ratio Lower Upper

83 100

131 3.2 5.7 17.1#

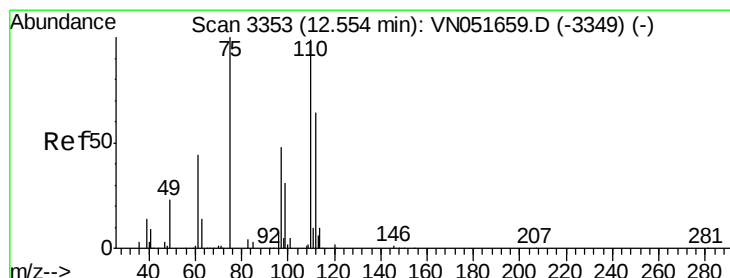
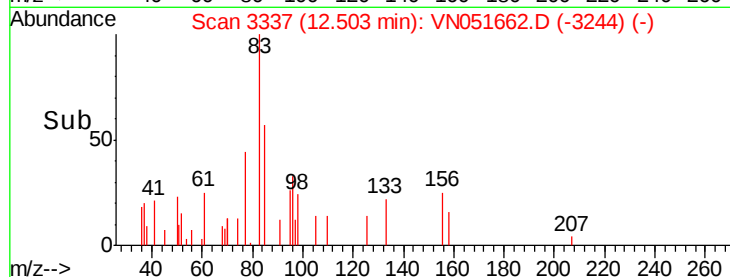
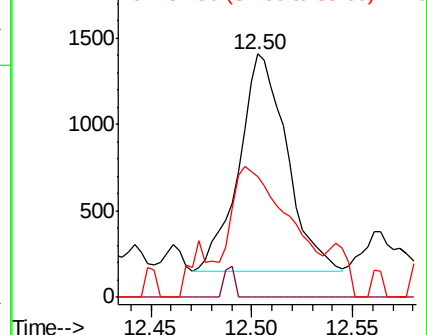
85 51.5 33.0 98.9



Abundance Ion 82.90 (82.60 to 83.60): VN051659.D (-3324) (-)

Ion 130.80 (130.50 to 131.50): VN051659.D (-3324) (-)

Ion 84.90 (84.60 to 85.60): VN051659.D (-3324) (-)



#76

1,2,3-Trichloropropane

Concen: 48.238 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051662.D

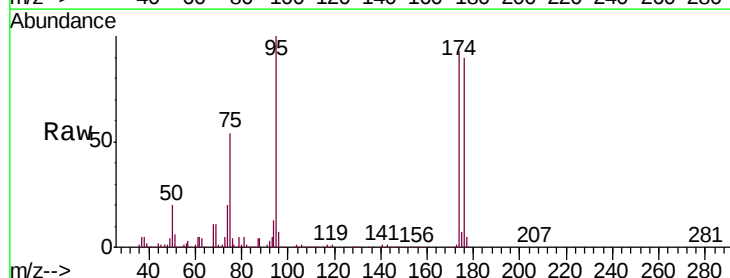
Acq: 4 Oct 2018 12:54

Tgt Ion: 75 Resp: 238885

Ion Ratio Lower Upper

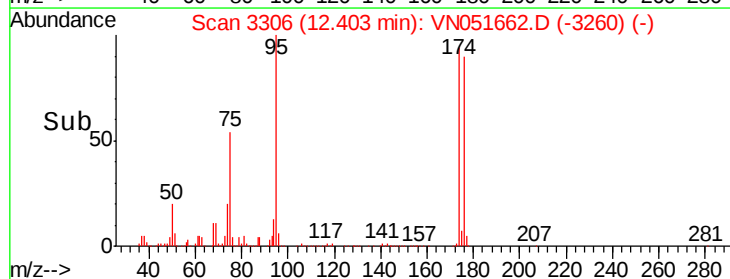
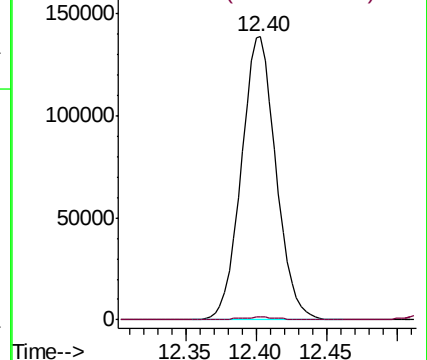
75 100

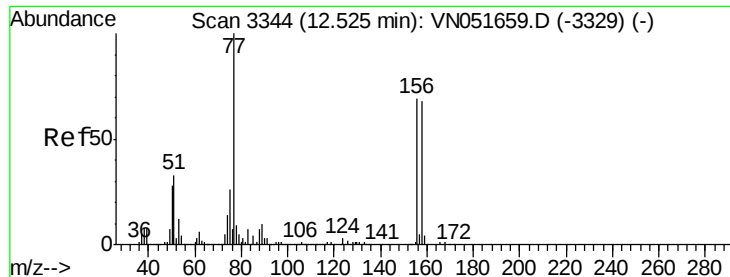
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051659.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN051659.D (-3349) (-)





#77

Bromobenzene

Concen: 0.544 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

I.BLK

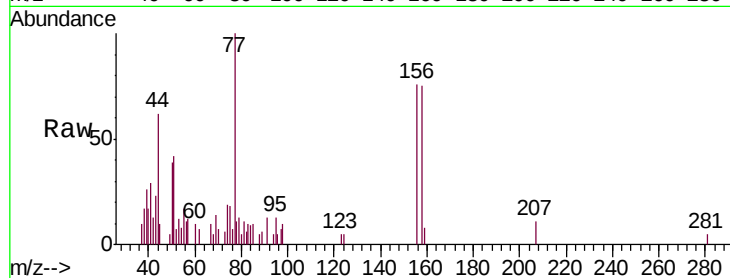
Tgt Ion:156 Resp: 4006

Ion Ratio Lower Upper

156 100

77 183.5 83.2 249.4

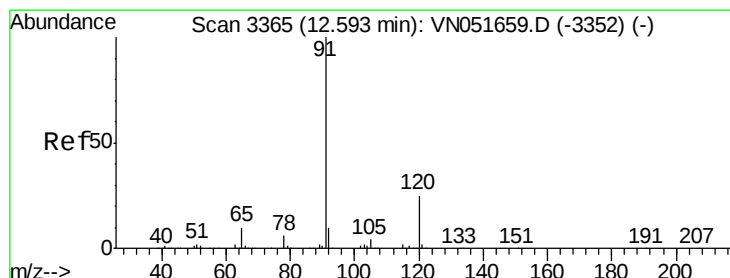
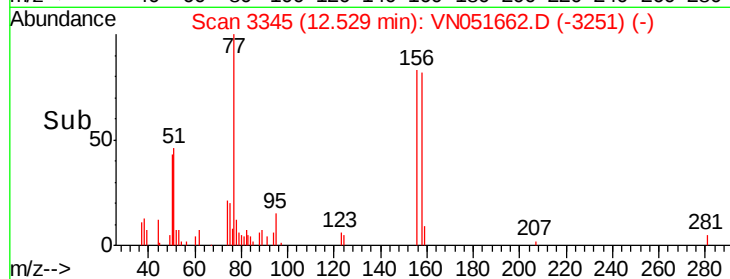
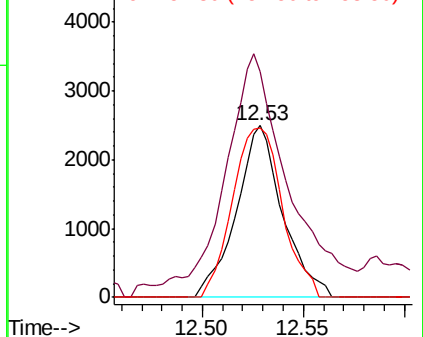
158 106.4 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.451 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051662.D

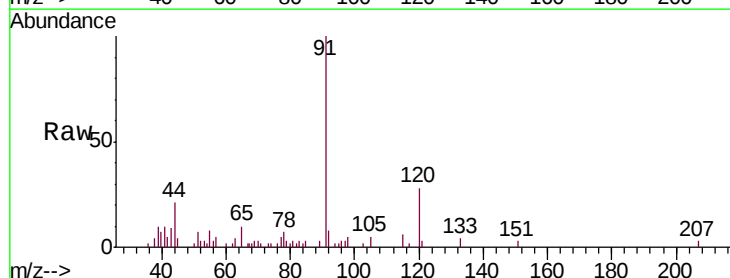
Acq: 4 Oct 2018 12:54

Tgt Ion: 91 Resp: 14793

Ion Ratio Lower Upper

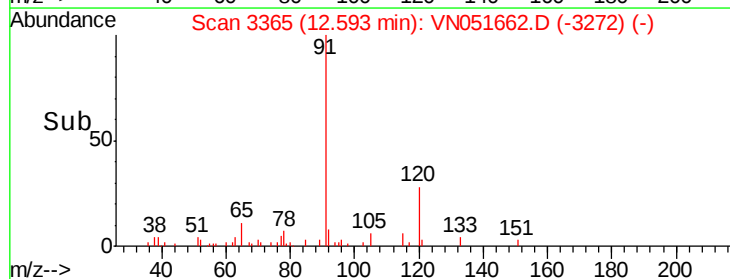
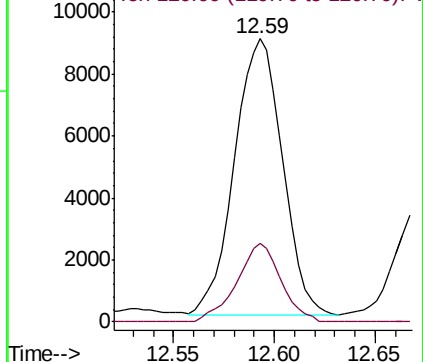
91 100

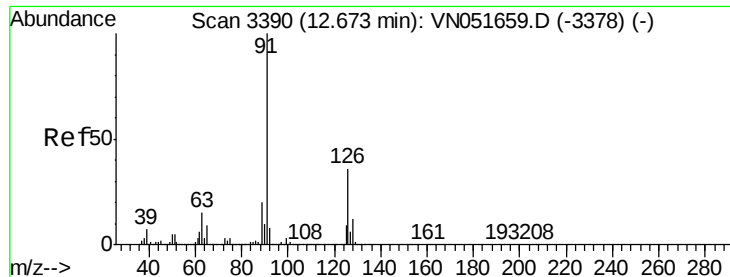
120 26.2 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.391 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

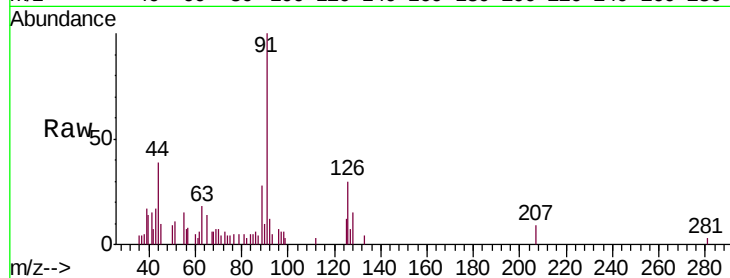
I.BLK

Tgt Ion: 91 Resp: 7559

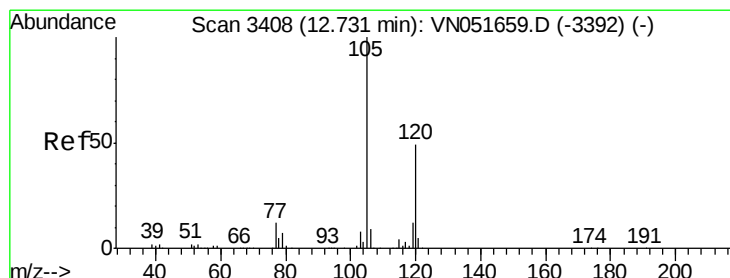
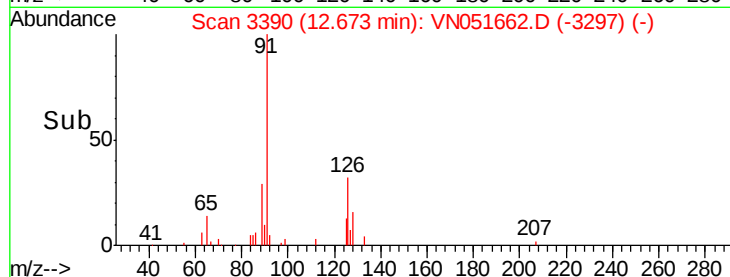
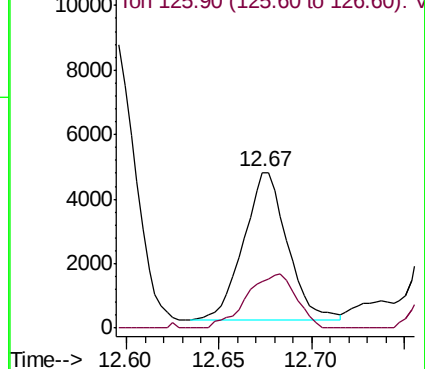
Ion Ratio Lower Upper

91 100

126 41.0 18.5 55.5



Abundance Ion 91.00 (90.70 to 91.70): VN051659.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.323 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051662.D

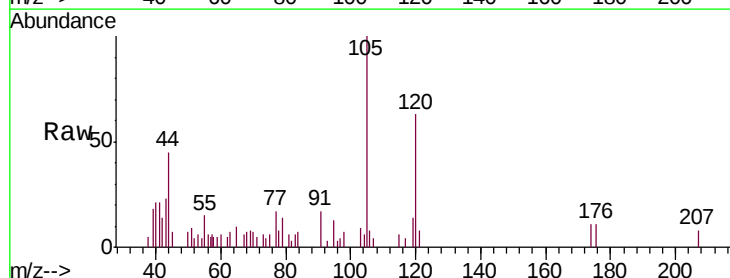
Acq: 4 Oct 2018 12:54

Tgt Ion: 105 Resp: 8197

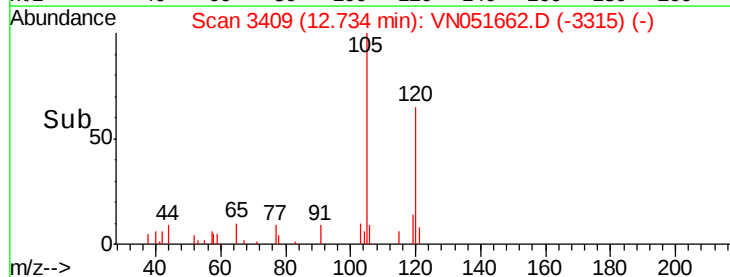
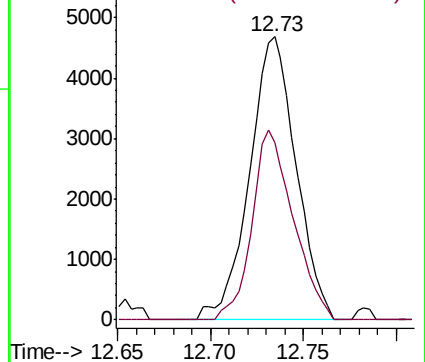
Ion Ratio Lower Upper

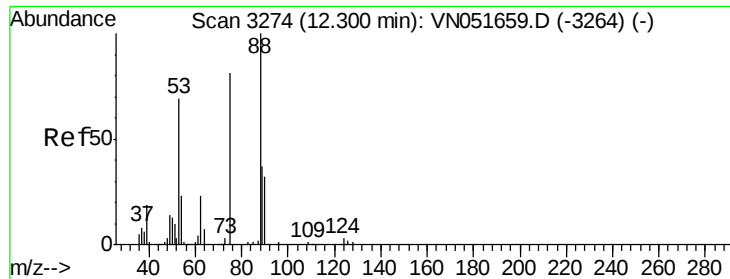
105 100

120 59.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051659.D (-3392) (-)

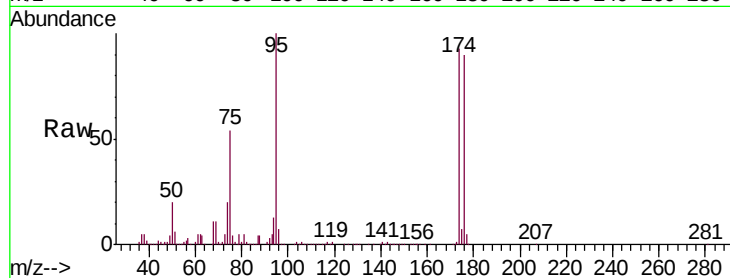




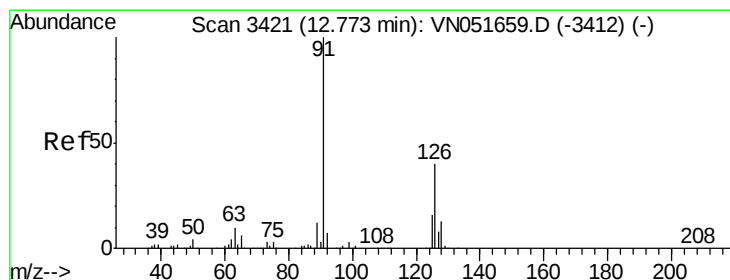
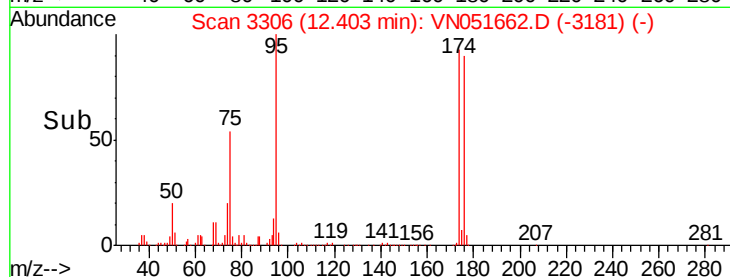
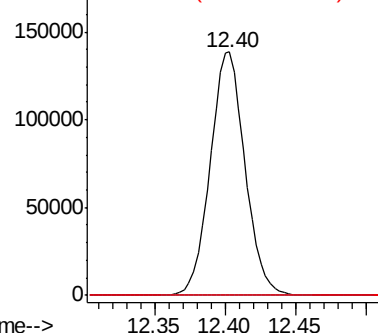
#81
trans-1,4-Dichloro-2-butene
Concen: 124.367 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Tgt Ion: 75 Resp: 23885
Ion Ratio Lower Upper
75 100
53 0.2 68.6 102.8#
89 0.0 39.4 59.2#

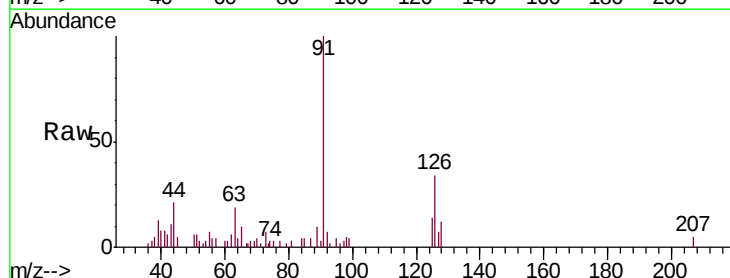


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

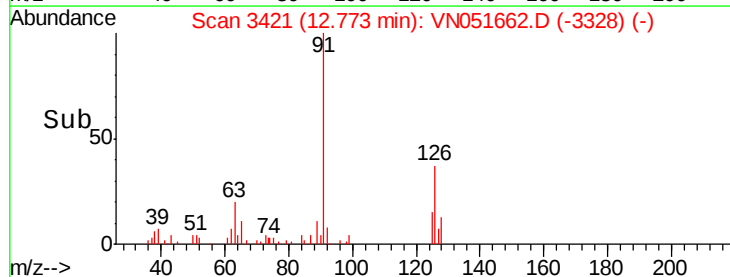
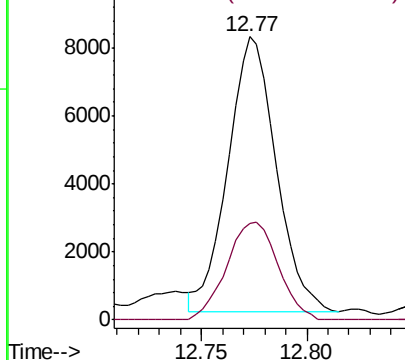


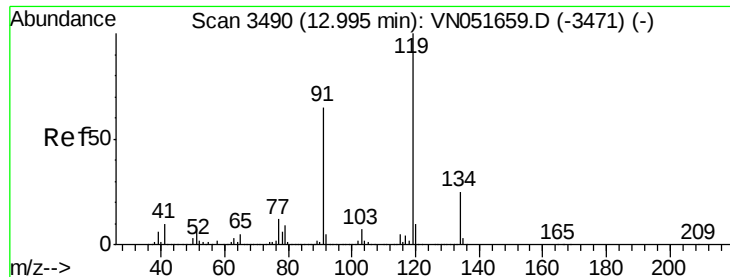
#82
4-Chlorotoluene
Concen: 0.658 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion: 91 Resp: 12791
Ion Ratio Lower Upper
91 100
126 38.1 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 125.90 (125.60 to 126.60): V

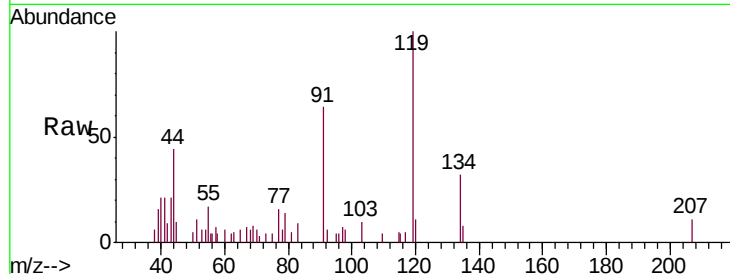




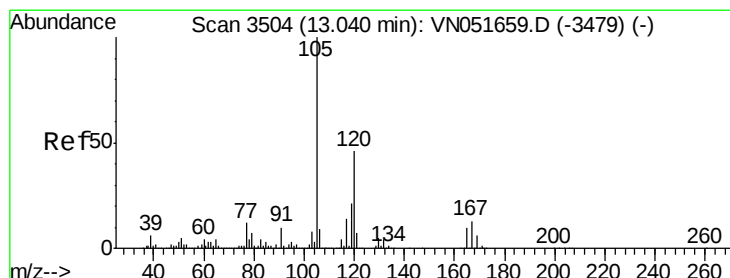
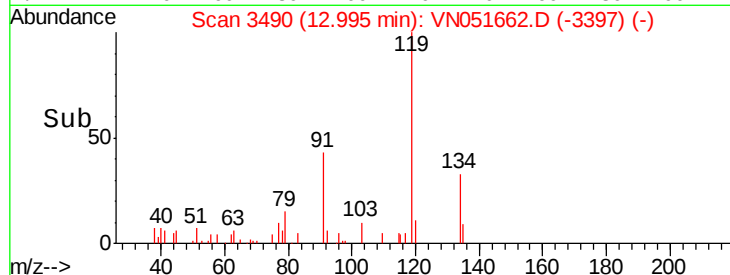
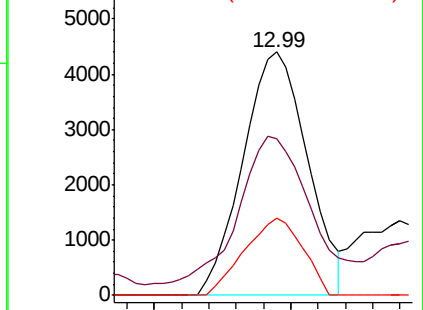
#83
 tert-Butylbenzene
 Concen: 0.318 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion:119 Resp: 7236
 Ion Ratio Lower Upper
 119 100
 91 66.4 32.1 96.5
 134 28.6 13.3 39.9

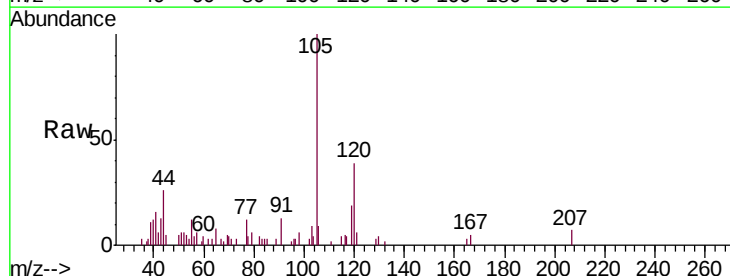


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

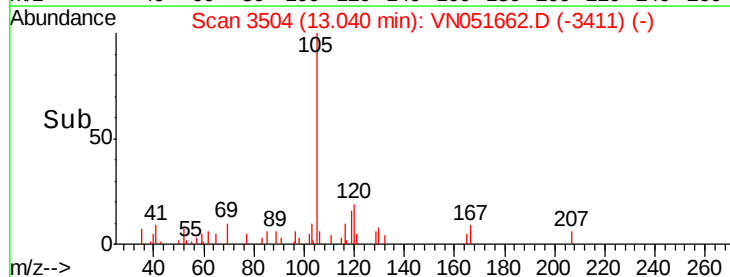
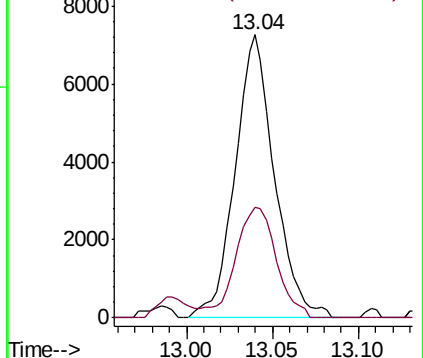


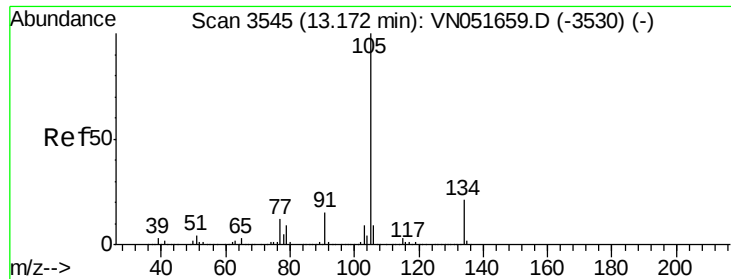
#84
 1,2,4-Trimethylbenzene
 Concen: 0.453 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion:105 Resp: 11501
 Ion Ratio Lower Upper
 105 100
 120 40.2 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.454 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

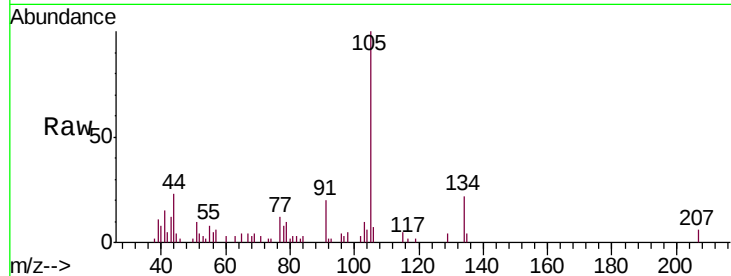
I.BLK

Tgt Ion:105 Resp: 13651

Ion Ratio Lower Upper

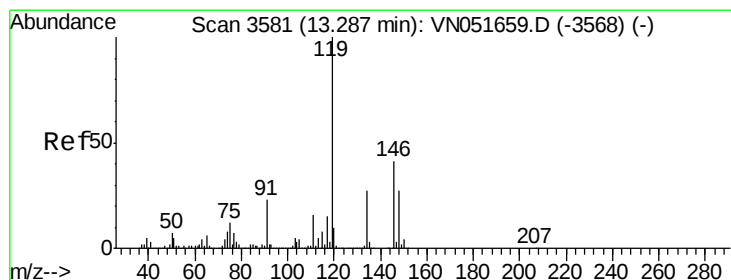
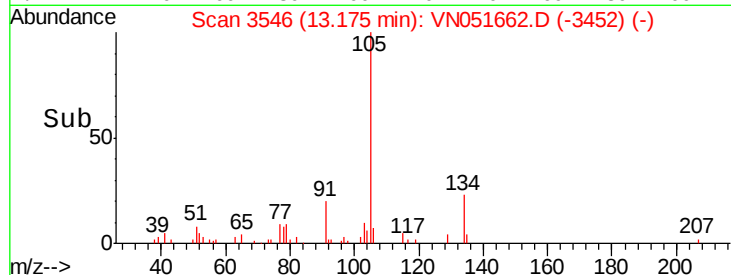
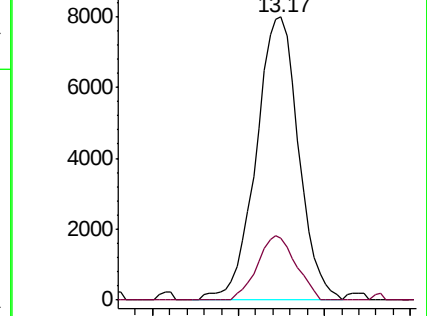
105 100

134 20.7 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.435 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

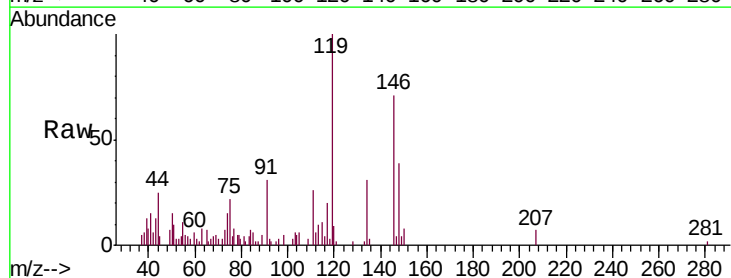
Tgt Ion:119 Resp: 11595

Ion Ratio Lower Upper

119 100

134 29.1 13.4 40.2

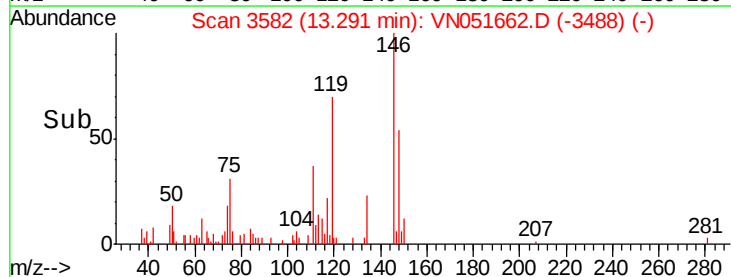
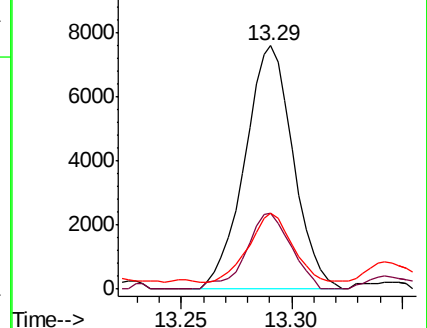
91 26.0 11.7 35.1

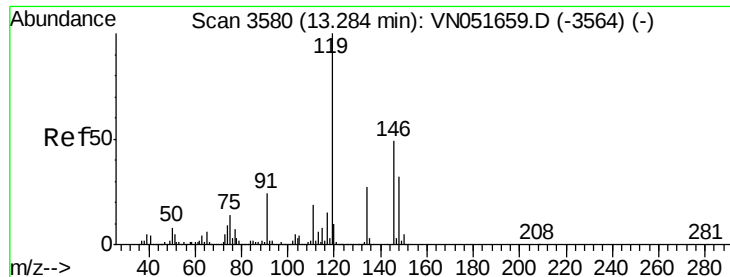


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

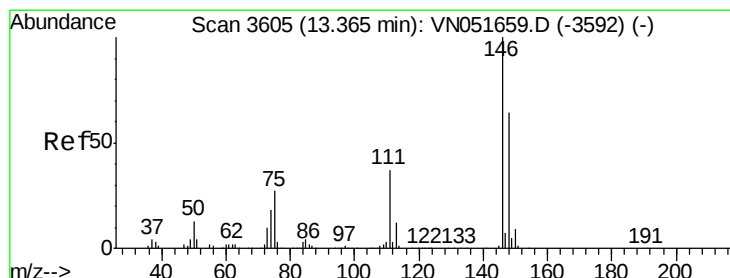
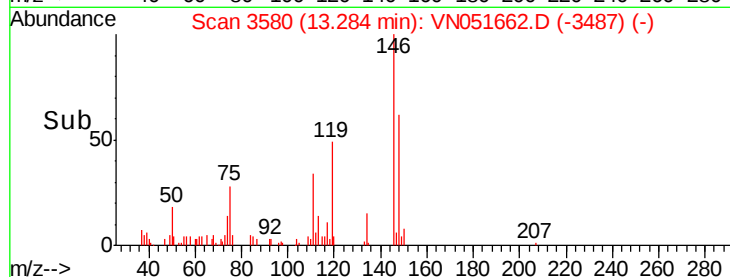
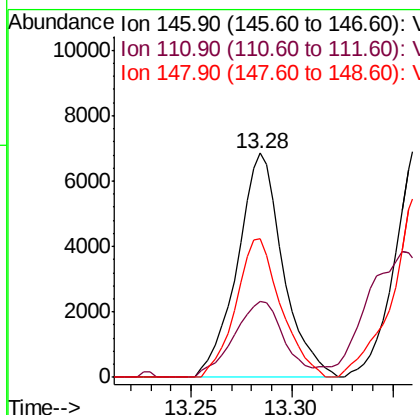
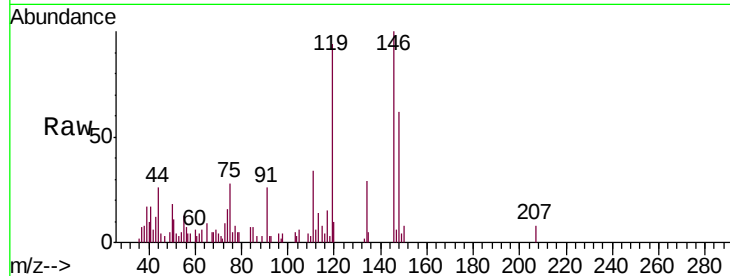




#87
 1,3-Dichlorobenzene
 Concen: 0.846 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

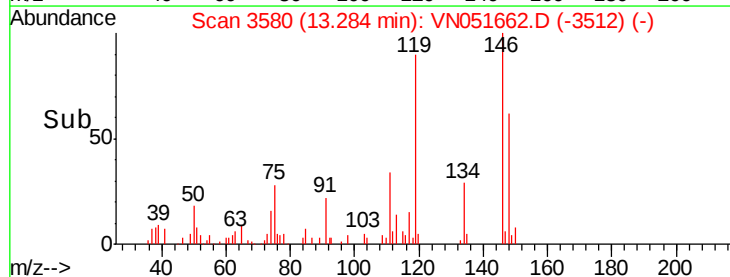
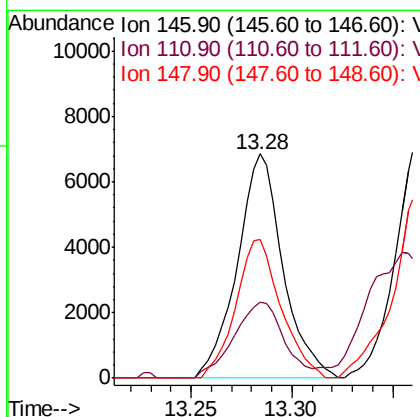
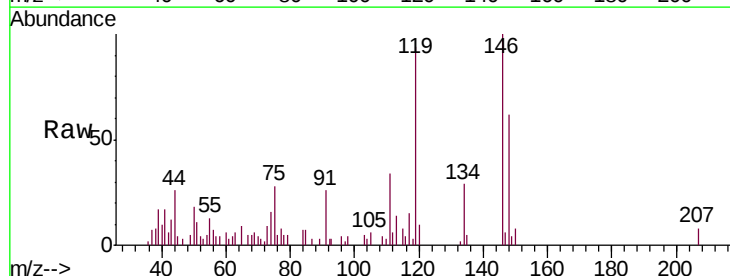
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

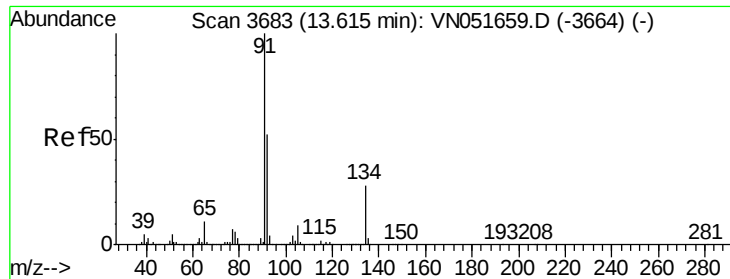
Tgt Ion:146 Resp: 10850
 Ion Ratio Lower Upper
 146 100
 111 38.1 19.3 57.9
 148 61.3 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 0.860 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion:146 Resp: 10850
 Ion Ratio Lower Upper
 146 100
 111 38.1 18.6 55.8
 148 61.3 32.3 96.8





#89

n-Butylbenzene

Concen: 0.693 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN051662.D

Acq: 4 Oct 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

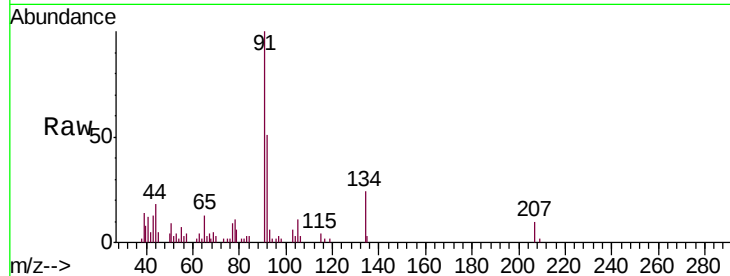
Tgt Ion: 91 Resp: 14614

Ion Ratio Lower Upper

91 100

92 56.4 26.0 78.0

134 25.0 14.2 42.6

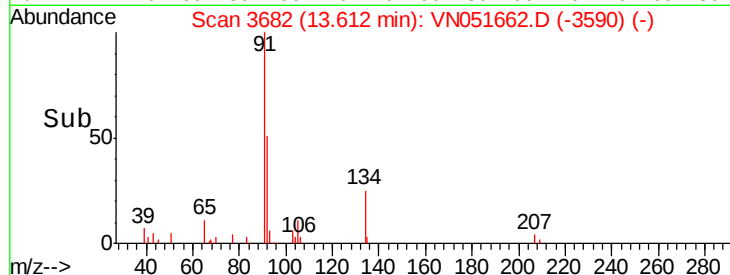


Abundance Ion 91.00 (90.70 to 91.70): VN051659.D (-3664) (-)

Ion 92.00 (91.70 to 92.70): VN051659.D (-3664) (-)

Ion 134.00 (133.70 to 134.70): VN051659.D (-3664) (-)

Time-->

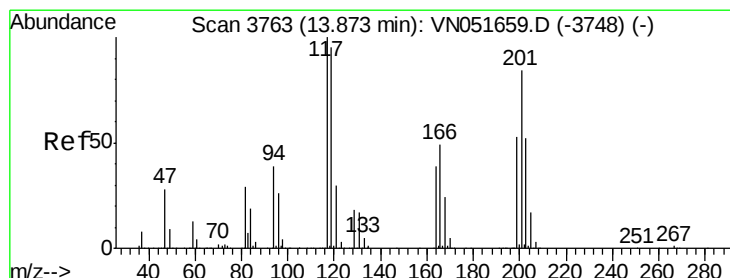


Abundance Ion 91.00 (90.70 to 91.70): VN051662.D (-3590) (-)

Ion 92.00 (91.70 to 92.70): VN051662.D (-3590) (-)

Ion 134.00 (133.70 to 134.70): VN051662.D (-3590) (-)

Time-->



#90

Hexachloroethane

Concen: 0.302 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. -0.00 min

Lab File: VN051662.D

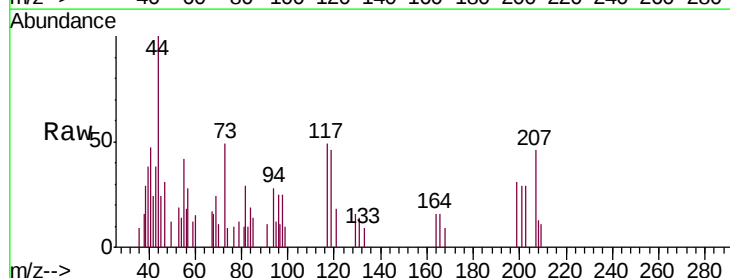
Acq: 4 Oct 2018 12:54

Tgt Ion: 117 Resp: 1608

Ion Ratio Lower Upper

117 100

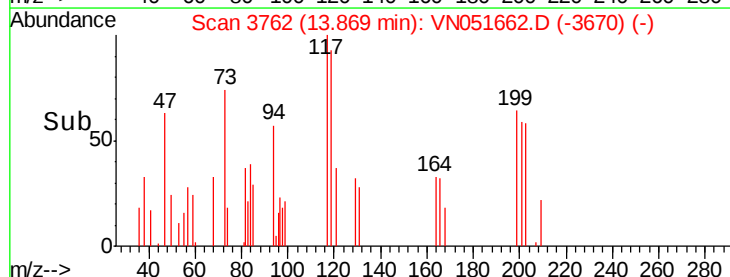
201 64.5 42.4 127.3



Abundance Ion 116.80 (116.50 to 117.50): VN051659.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN051659.D (-3748) (-)

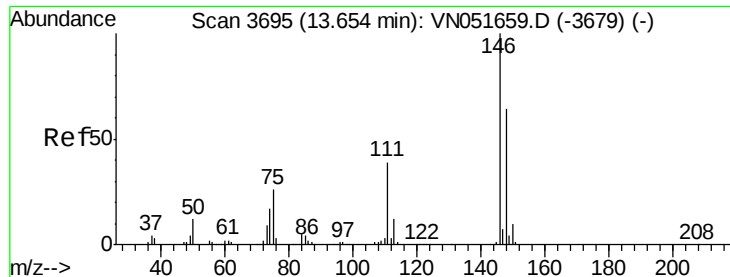
Time-->



Abundance Ion 116.80 (116.50 to 117.50): VN051662.D (-3670) (-)

Ion 200.70 (200.40 to 201.40): VN051662.D (-3670) (-)

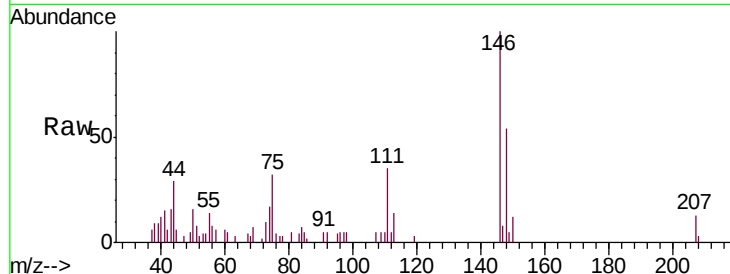
Time-->



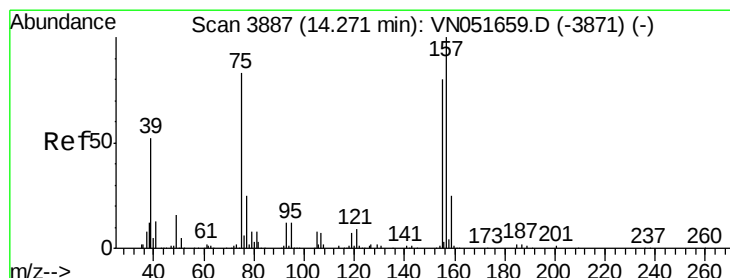
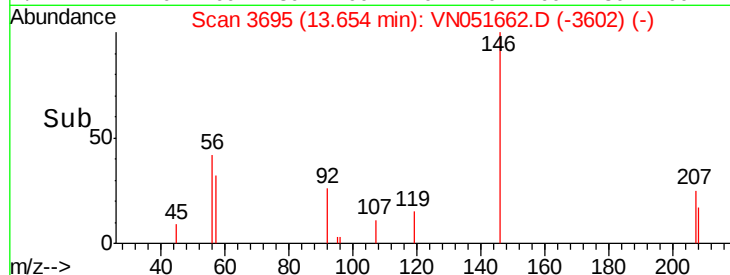
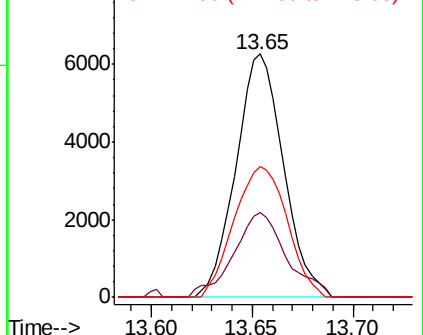
#91
 1,2-Dichlorobenzene
 Concen: 0.813 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion: 146 Resp: 10368
 Ion Ratio Lower Upper
 146 100
 111 38.4 19.7 59.0
 148 59.9 32.1 96.3

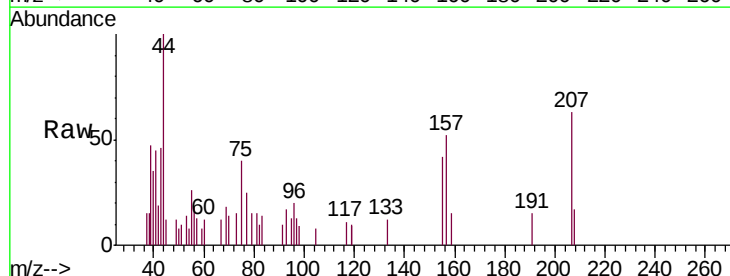


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

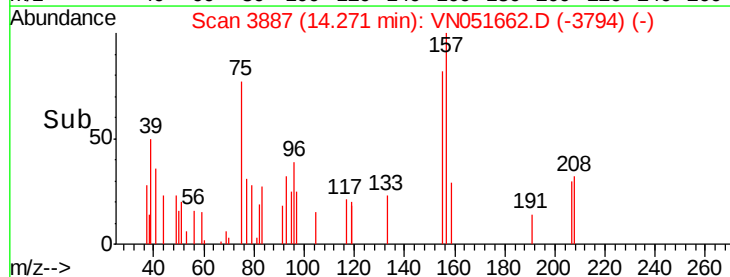
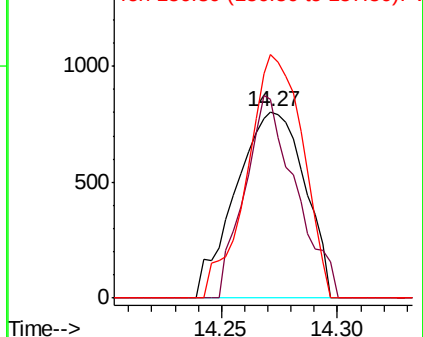


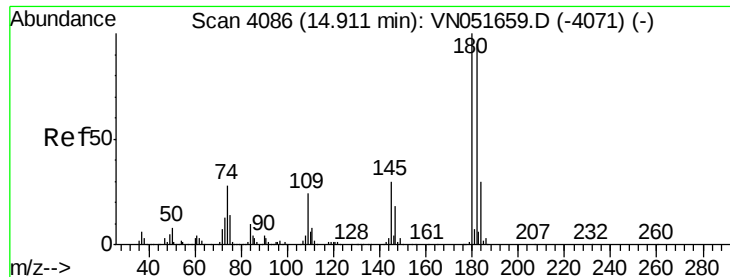
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.573 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion: 75 Resp: 1663
 Ion Ratio Lower Upper
 75 100
 155 80.3 47.6 142.9
 157 105.7 61.7 185.1



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

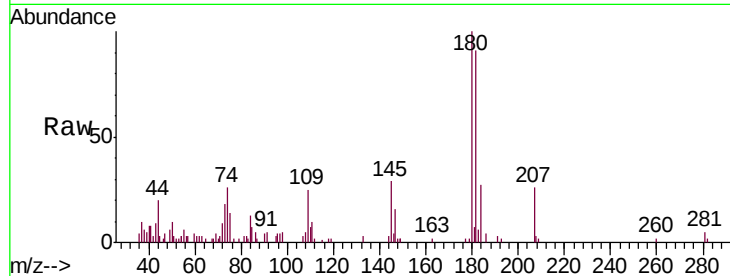




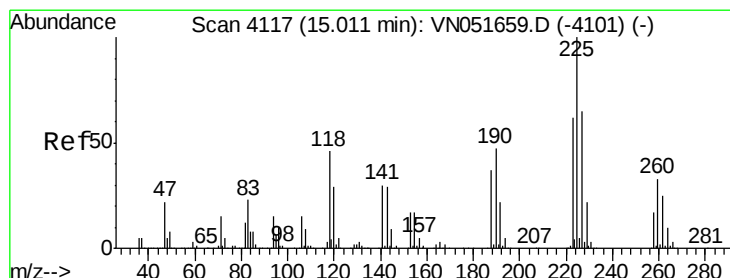
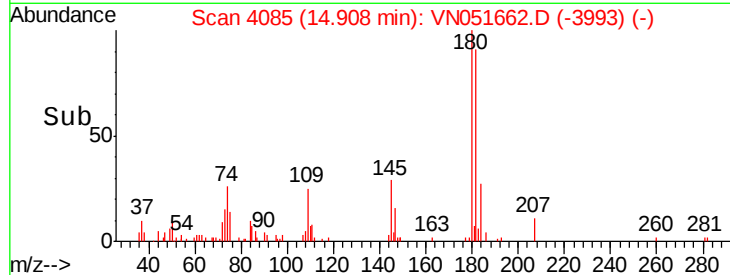
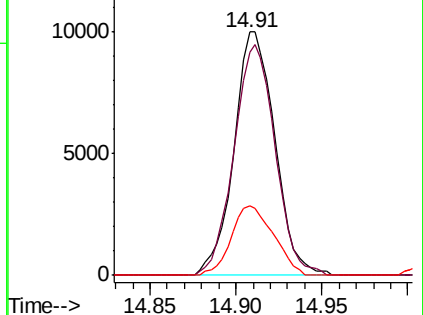
#93
 1,2,4-Trichlorobenzene
 Concen: 2.922 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion:180 Resp: 16573
 Ion Ratio Lower Upper
 180 100
 182 95.2 47.7 143.1
 145 29.6 15.3 45.9

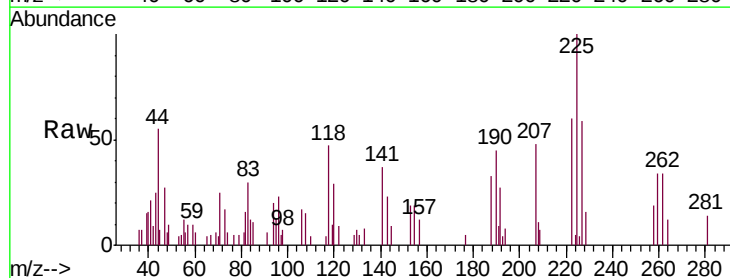


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

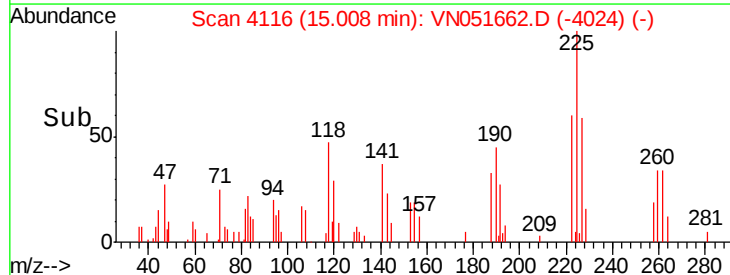
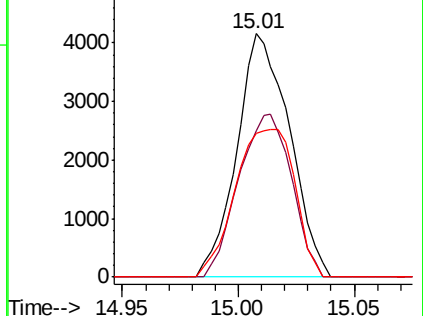


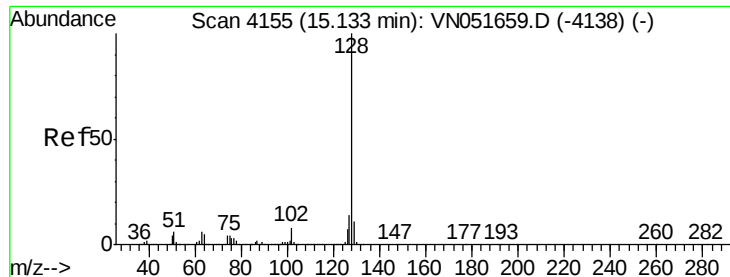
#94
 Hexachlorobutadiene
 Concen: 1.704 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN051662.D
 Acq: 4 Oct 2018 12:54

Tgt Ion:225 Resp: 6560
 Ion Ratio Lower Upper
 225 100
 223 67.2 31.9 95.5
 227 68.6 31.7 95.1



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

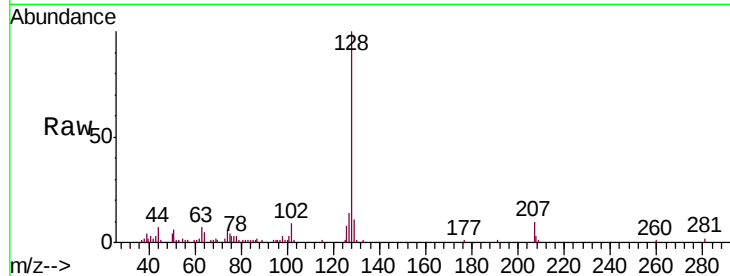




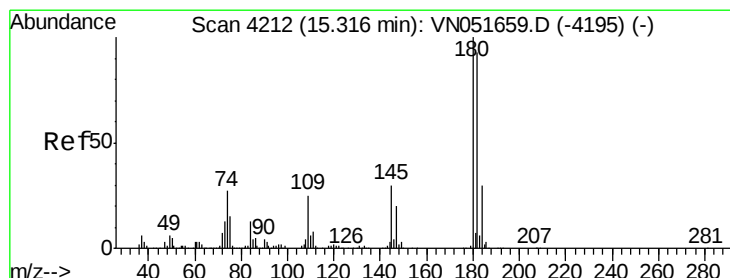
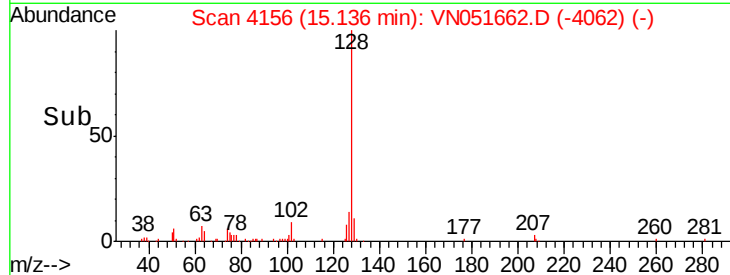
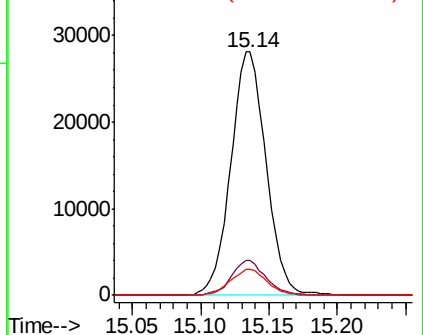
#95
Naphthalene
Concen: 4.117 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Tgt Ion:128 Resp: 50436
Ion Ratio Lower Upper
128 100
127 13.8 10.6 15.8
129 11.2 9.0 13.6

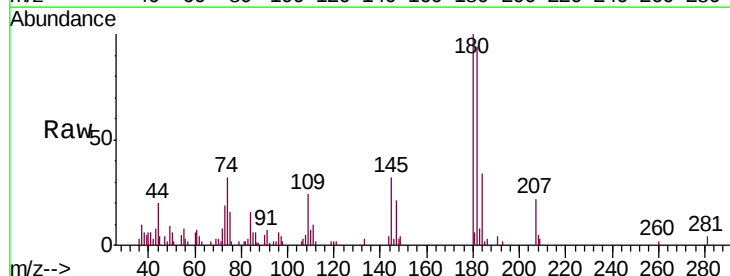


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 3.616 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051662.D
Acq: 4 Oct 2018 12:54

Tgt Ion:180 Resp: 20204
Ion Ratio Lower Upper
180 100
182 98.3 47.3 141.8
145 32.8 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

