

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042219\
 Data File : VN055174.D
 Acq On : 22 Apr 2019 11:28
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Apr 23 05:58:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	375396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	637740	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	568273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159895	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	246284	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
35) Dibromofluoromethane	7.59	113	207295	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
50) Toluene-d8	10.09	98	763406	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
62) 4-Bromofluorobenzene	12.40	95	233793	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	2014	0.417	ug/l	97
3) Chloromethane	2.06	50	1211	0.204	ug/l	89
4) Vinyl Chloride	2.18	62	1150	0.242	ug/l	99
5) Bromomethane	2.56	94	1310	0.476	ug/l #	62
7) Trichlorofluoromethane	3.01	101	1551	0.240	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1375	0.341	ug/l #	56
12) 1,1-Dichloroethene	3.74	96	882	0.228	ug/l	86
13) Acrolein	3.63	56	1144	11.984	ug/l	99
15) Acrylonitrile	5.01	53	1073	0.660	ug/l #	72
16) Acetone	3.82	43	1062	0.632	ug/l #	45
17) Carbon Disulfide	4.06	76	17342	1.606	ug/l #	94
21) trans-1,2-Dichloroethene	5.04	96	1076	0.266	ug/l	81
29) Tetrahydrofuran	7.23	42	1783	1.337	ug/l #	59
31) Cyclohexane	7.66	56	9583	Below Cal	#	1
36) 1,1-Dichloropropene	7.79	75	2955	0.499	ug/l #	81
38) Carbon Tetrachloride	7.66	117	34740	6.267	ug/l #	16
39) Methylcyclohexane	9.08	83	2740	0.388	ug/l	97
43) Isopropyl Acetate	8.24	43	13551	1.752	ug/l #	56
44) Trichloroethene	8.83	130	1755	0.380	ug/l	83
48) Methyl methacrylate	9.20	41	787	0.210	ug/l #	55
51) 4-Methyl-2-Pentanone	9.99	43	3668	0.824	ug/l	99
52) Toluene	10.16	92	2459	0.230	ug/l	82
58) 2-Chloroethyl Vinyl ether	9.71	63	551	11.559	ug/l #	75
59) 2-Hexanone	10.75	43	6852	2.437	ug/l	86
64) Tetrachloroethene	10.63	164	2123	0.458	ug/l #	85
65) Chlorobenzene	11.43	112	3285	0.283	ug/l #	87
67) Ethyl Benzene	11.51	91	5801	0.281	ug/l	93
68) m/p-Xylenes	11.62	106	4090	0.552	ug/l	93
69) o-Xylene	11.95	106	1550	0.211	ug/l	99
70) Styrene	11.96	104	2780	0.244	ug/l	90
73) Isopropylbenzene	12.25	105	4988	Below Cal		95
74) N-amyl acetate	12.07	43	3994	0.969	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.51	83	1216	Below Cal	#	96
76) 1,2,3-Trichloropropane	12.40	75	119168	36.737	ug/l #	100

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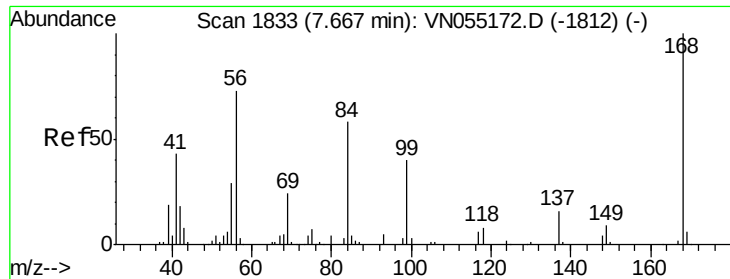
Instrument :
 MSVOA_N
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Quant Time: Apr 23 05:58:09 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

77) Bromobenzene	12.53	156	1287	0.365	ug/l	63
78) n-propylbenzene	12.59	91	8844	0.552	ug/l	96
79) 2-Chlorotoluene	12.67	91	4572	0.452	ug/l	91
80) 1,3,5-Trimethylbenzene	12.73	105	5221	0.436	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	119168	139.263	ug/l #	5
82) 4-Chlorotoluene	12.77	91	5130	0.551	ug/l	78
83) tert-Butylbenzene	12.99	119	4181	Below Cal		88
84) 1,2,4-Trimethylbenzene	13.04	105	4944	0.438	ug/l	90
85) sec-Butylbenzene	13.17	105	7211	0.533	ug/l	99
86) p-Isopropyltoluene	13.29	119	6353	0.569	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	3660	0.675	ug/l	93
88) 1,4-Dichlorobenzene	13.28	146	3660	0.694	ug/l	95
89) n-Butylbenzene	13.61	91	7568	0.915	ug/l	97
90) Hexachloroethane	13.87	117	722	0.365	ug/l	73
91) 1,2-Dichlorobenzene	13.65	146	4227	0.759	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	346	0.713	ug/l	79
93) 1,2,4-Trichlorobenzene	14.91	180	5287	4.863	ug/l	95
94) Hexachlorobutadiene	15.00	225	4269	0.330	ug/l	92
95) Naphthalene	15.13	128	16329	6.352	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	5841	4.518	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

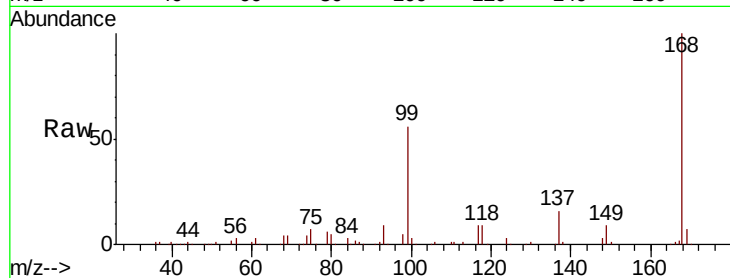
I.BLK

Tot Ion:168 Resp: 375396

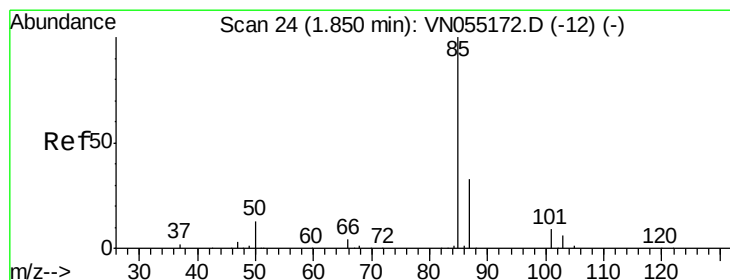
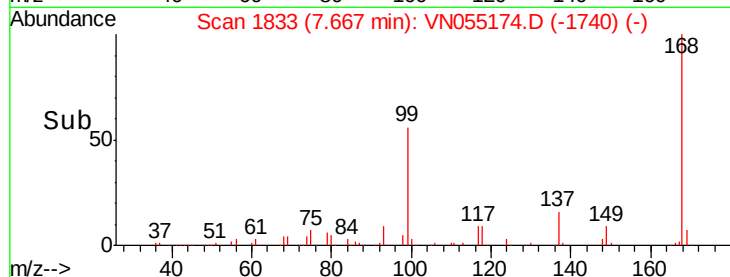
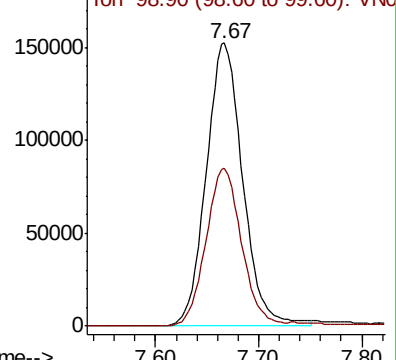
Ion Ratio Lower Upper

168 100

99 55.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VN055174.D (-1740) (-)



#2

Dichlorodifluoromethane

Concen: 0.417 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055174.D

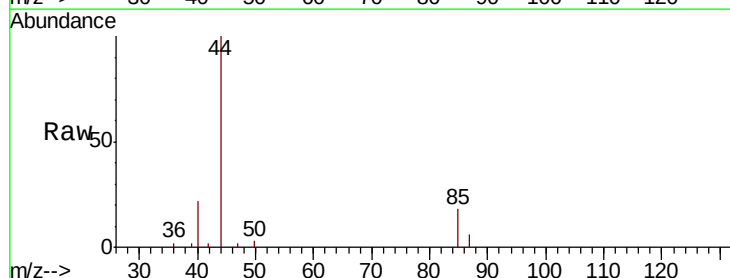
Acq: 22 Apr 2019 11:28

Tgt Ion: 85 Resp: 2014

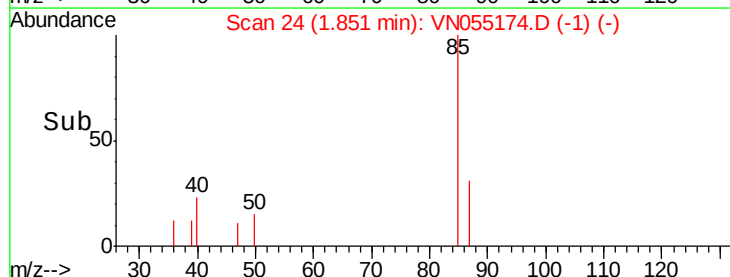
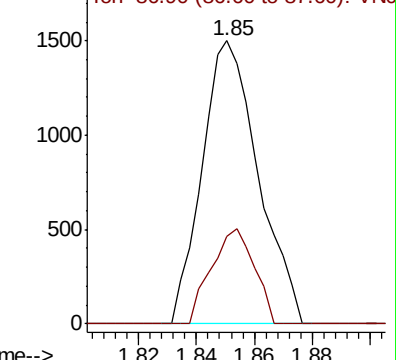
Ion Ratio Lower Upper

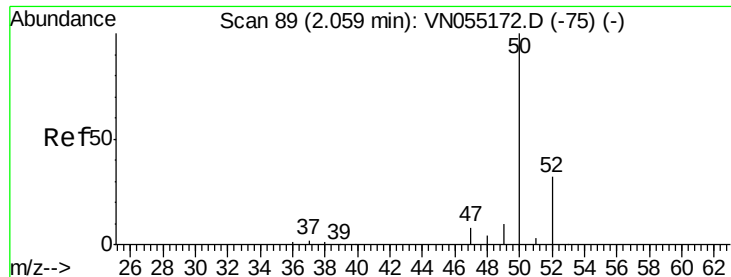
85 100

87 30.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN055174.D (-1) (-)





#3

Chloromethane

Concen: 0.204 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

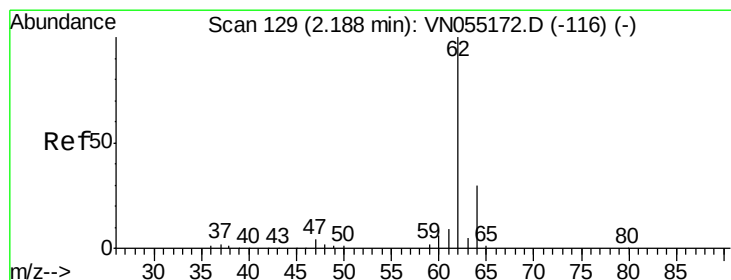
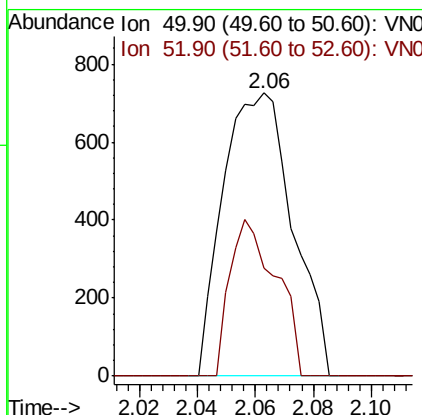
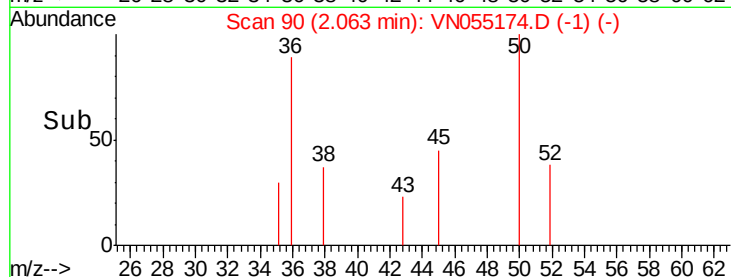
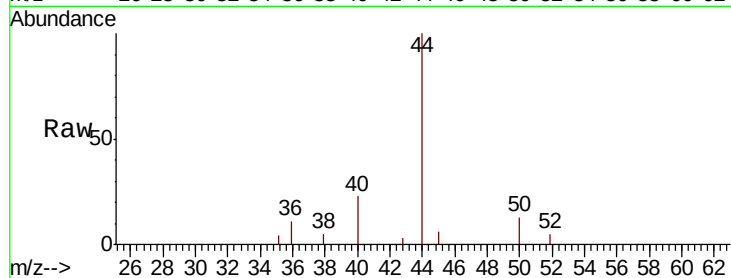
I.BLK

Tot Ion: 50 Resp: 1211

Ion Ratio Lower Upper

50 100

52 38.2 25.8 38.6



#4

Vinyl Chloride

Concen: 0.242 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055174.D

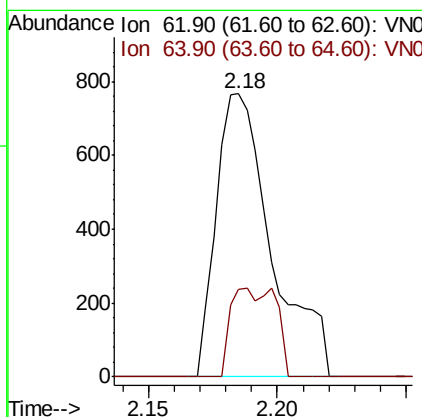
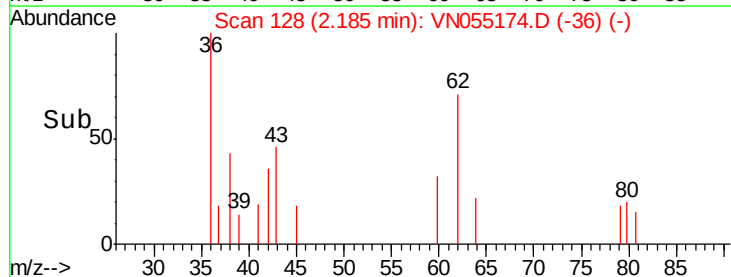
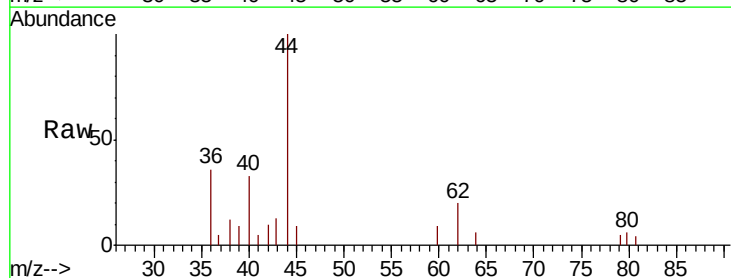
Acq: 22 Apr 2019 11:28

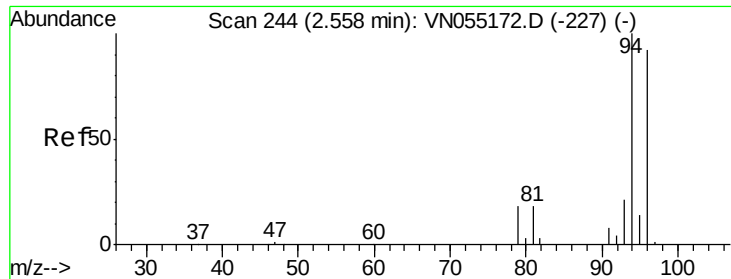
Tgt Ion: 62 Resp: 1150

Ion Ratio Lower Upper

62 100

64 31.0 24.2 36.4

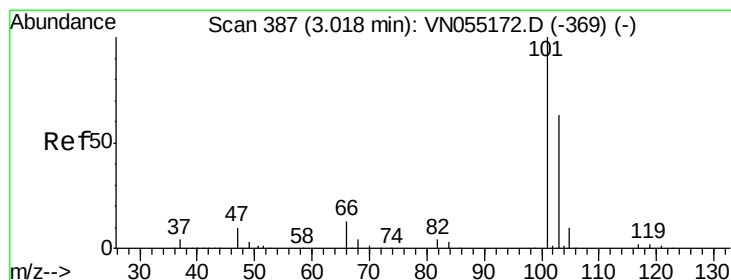
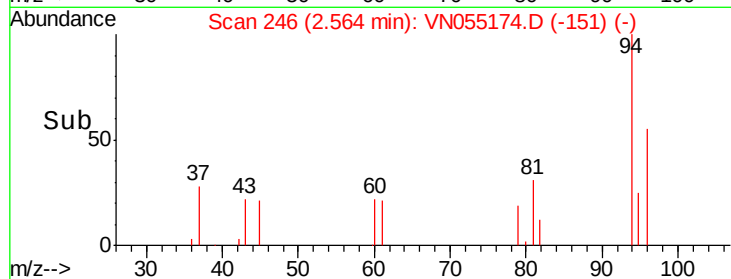
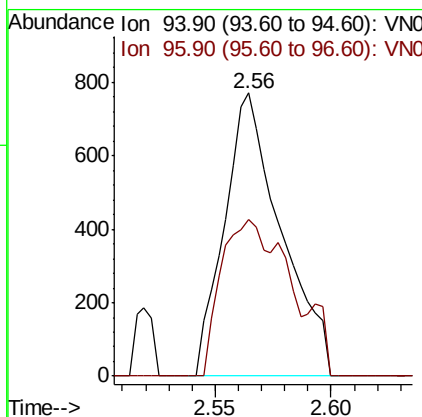
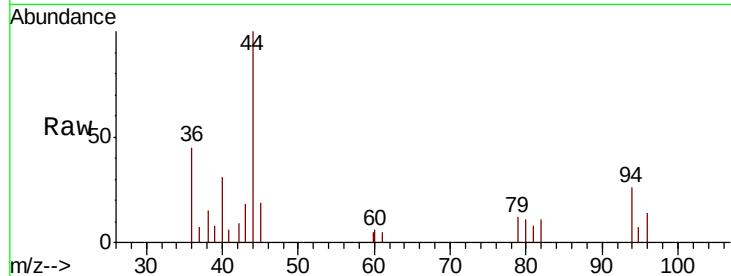




#5
Bromomethane
Concen: 0.476 ug/l
RT: 2.56 min Scan# 246
Delta R.T. 0.01 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

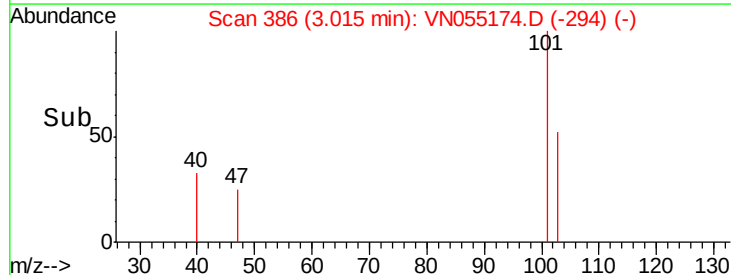
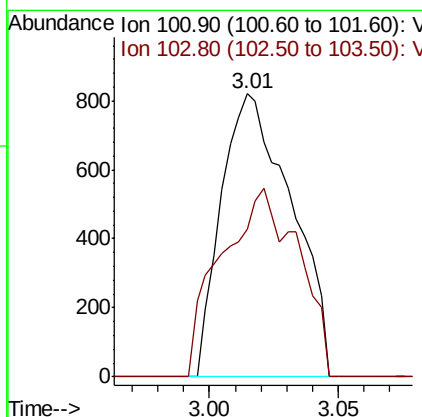
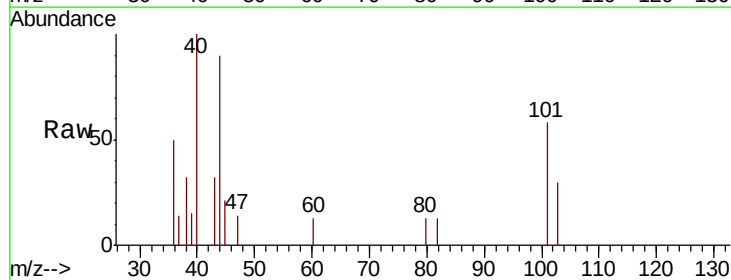
Instrument :
MSVOA_N
ClientSampled :
I.BLK

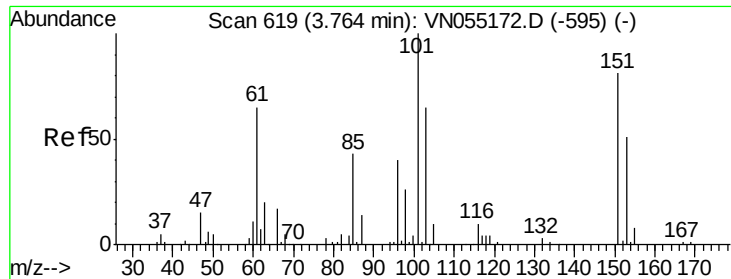
Tot Ion: 94 Resp: 1310
Ion Ratio Lower Upper
94 100
96 55.3 73.4 110.2#



#7
Trichlorofluoromethane
Concen: 0.240 ug/l
RT: 3.01 min Scan# 386
Delta R.T. -0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion:101 Resp: 1551
Ion Ratio Lower Upper
101 100
103 52.0 50.1 75.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.341 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

I.BLK

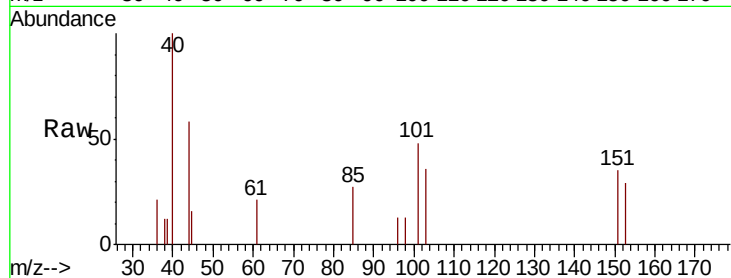
Tot Ion:101 Resp: 1375

Ion Ratio Lower Upper

101 100

85 62.7 34.9 52.3#

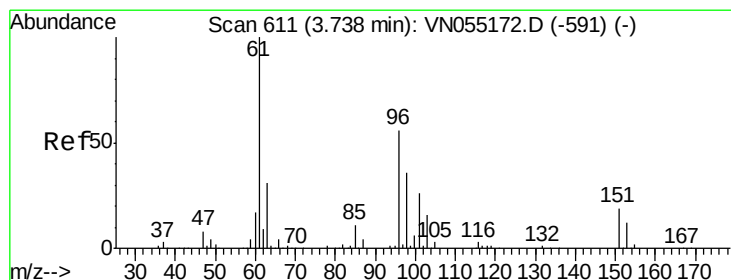
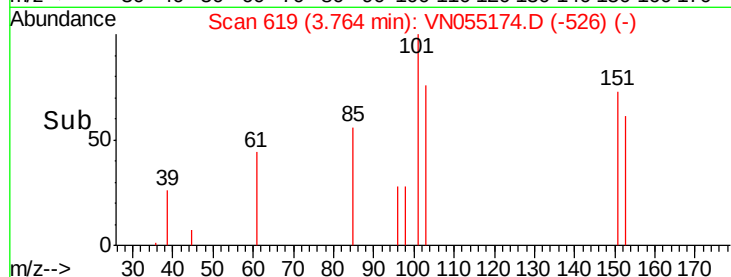
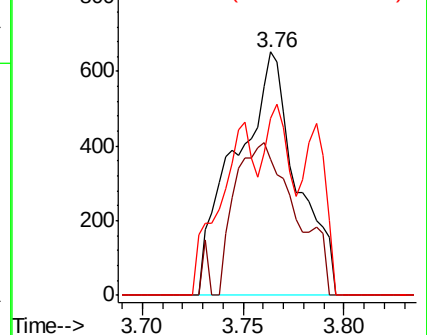
151 33.9 63.8 95.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.228 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

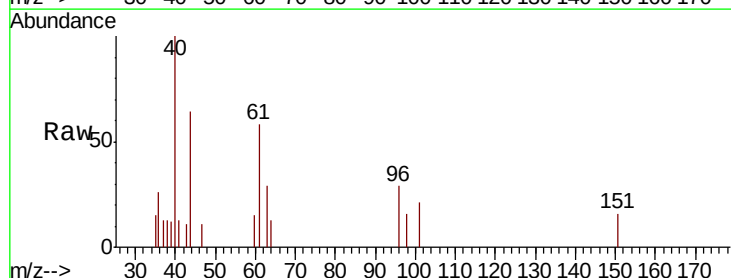
Tgt Ion: 96 Resp: 882

Ion Ratio Lower Upper

96 100

61 156.5 142.1 213.1

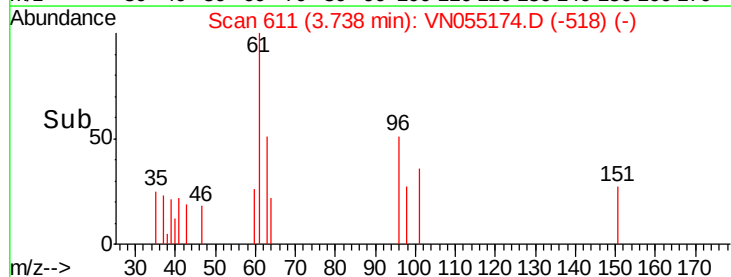
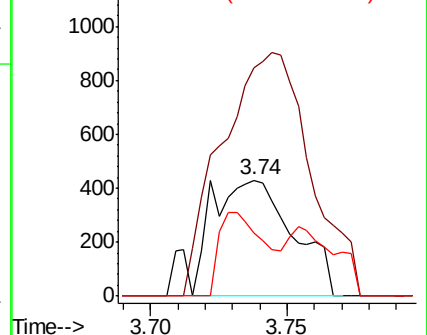
98 54.2 51.2 76.8

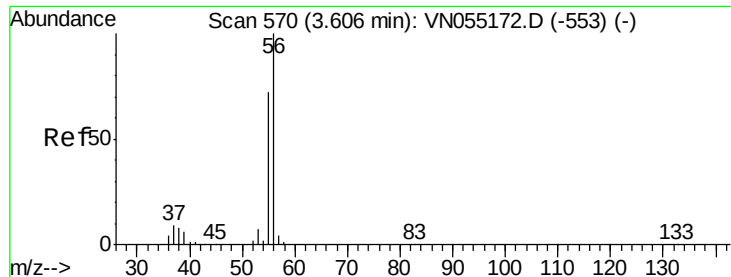


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 11.984 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

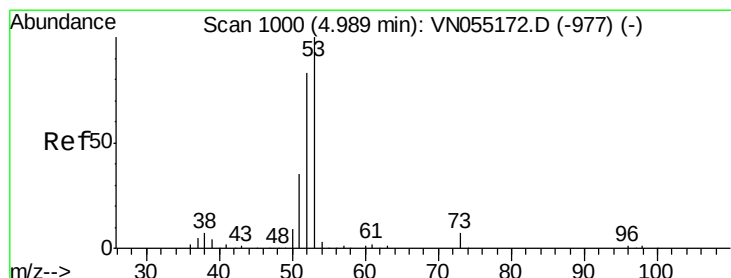
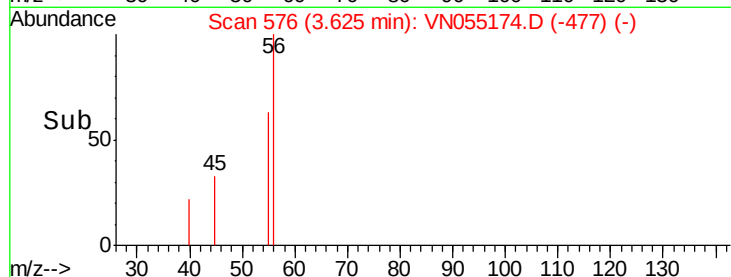
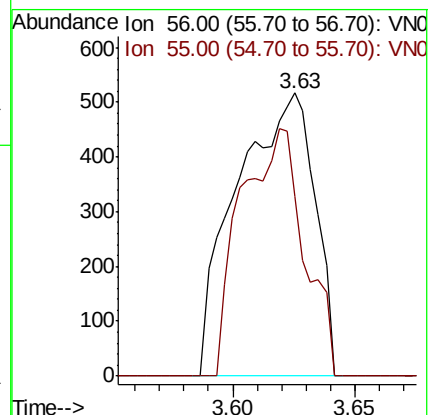
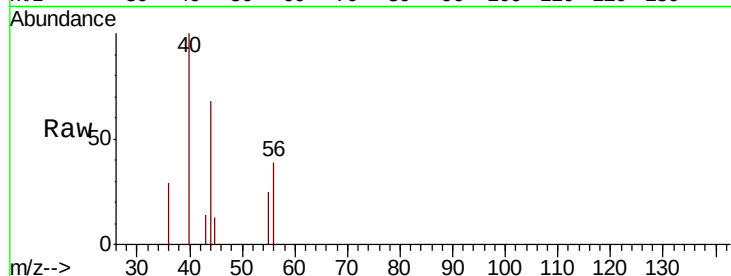
I.BLK

Tot Ion: 56 Resp: 1144

Ion Ratio Lower Upper

56 100

55 70.9 57.4 86.0



#15

Acrylonitrile

Concen: 0.660 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.02 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

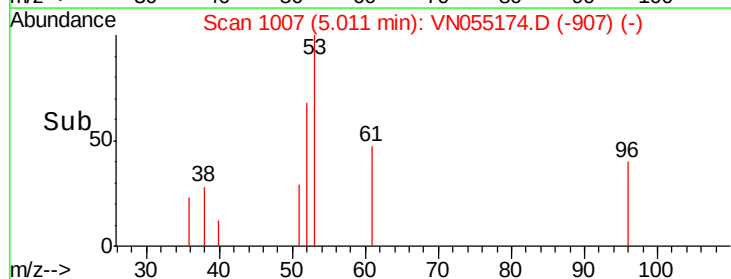
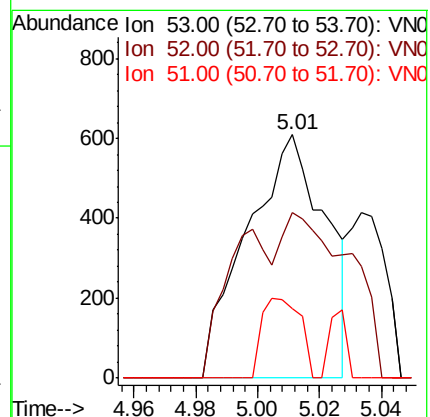
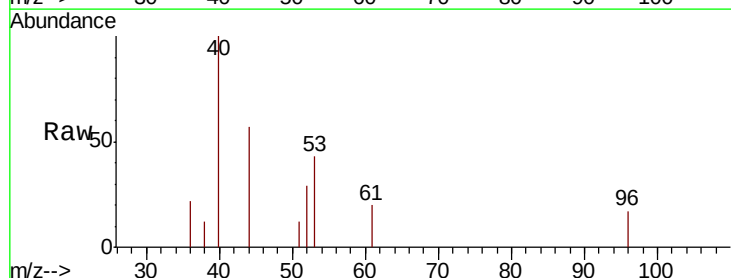
Tgt Ion: 53 Resp: 1073

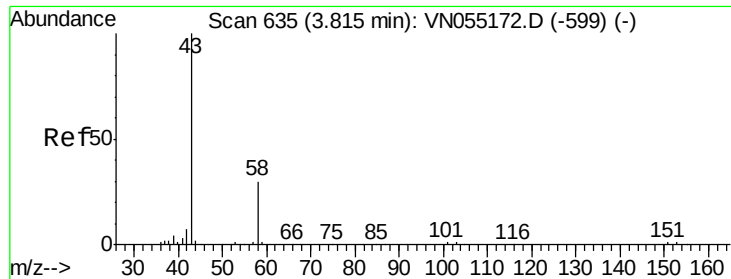
Ion Ratio Lower Upper

53 100

52 59.1 65.8 98.8#

51 16.0 28.9 43.3#





#16

Acetone

Concen: 0.632 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

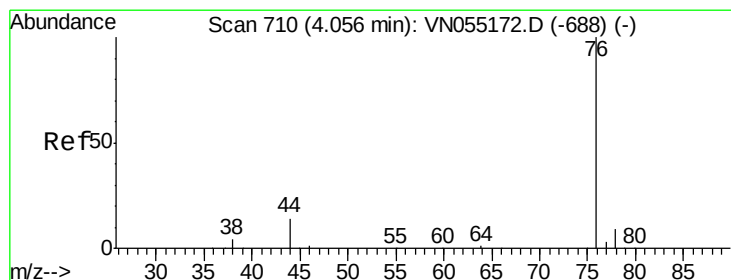
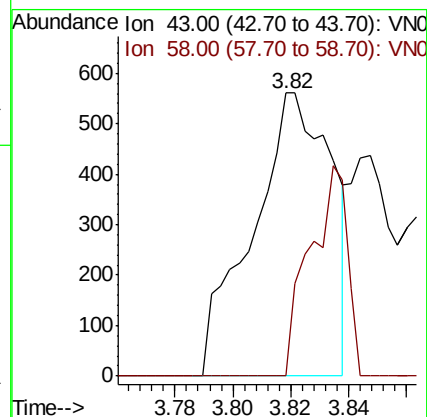
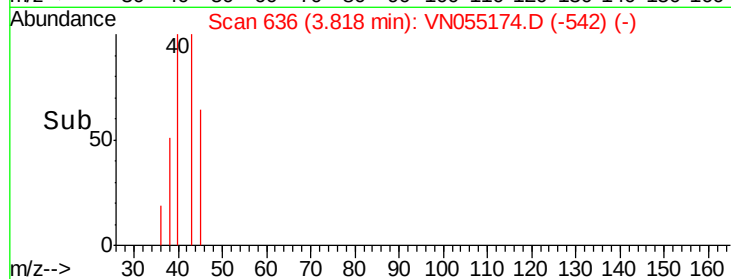
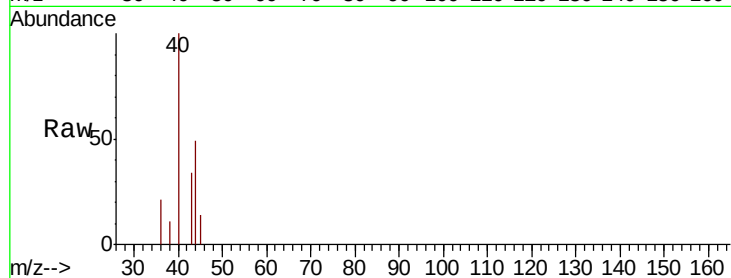
I.BLK

Tot Ion: 43 Resp: 1062

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



#17

Carbon Disulfide

Concen: 1.606 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN055174.D

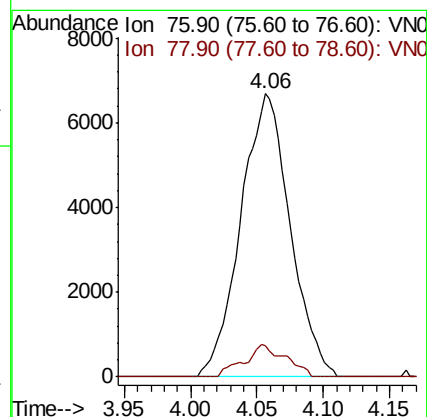
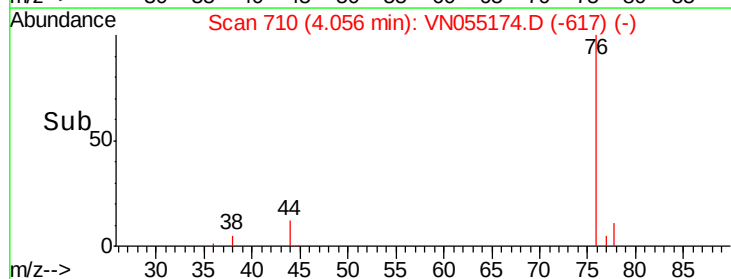
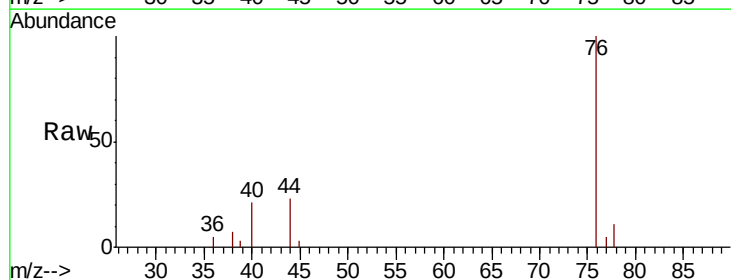
Acq: 22 Apr 2019 11:28

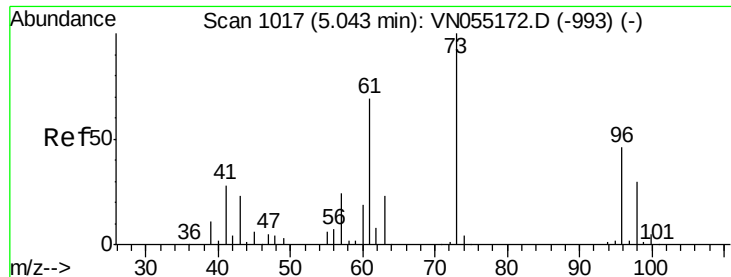
Tgt Ion: 76 Resp: 17342

Ion Ratio Lower Upper

76 100

78 11.3 7.3 10.9#

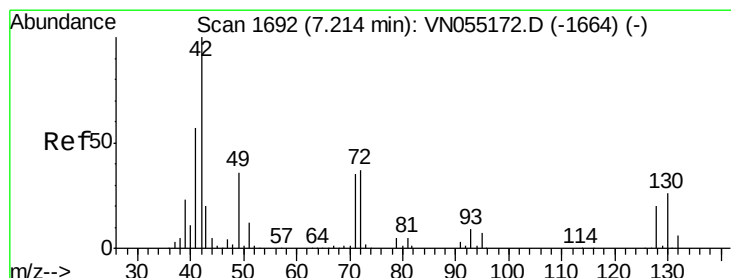
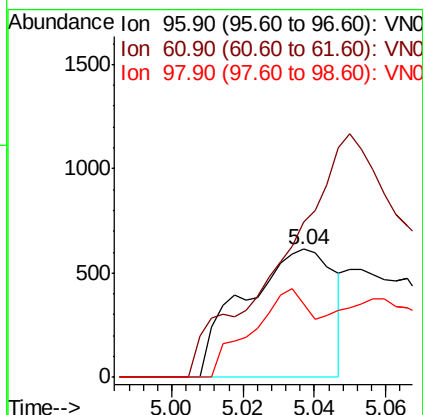
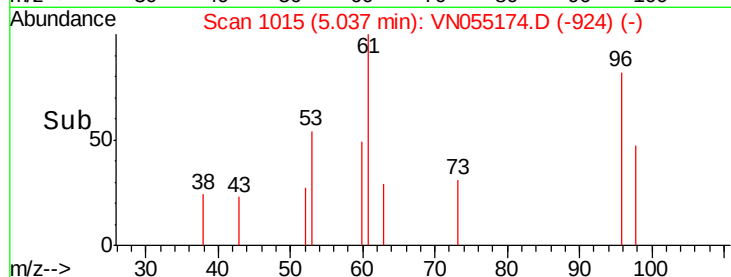
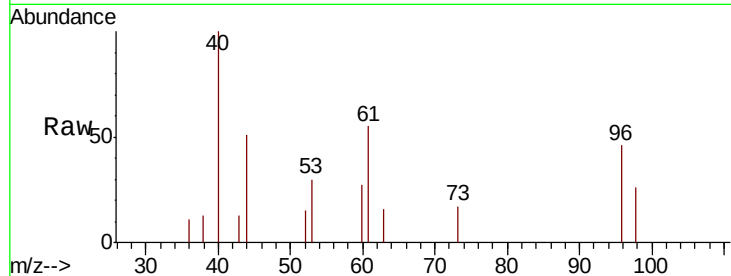




#21
trans-1,2-Dichloroethene
Concen: 0.266 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

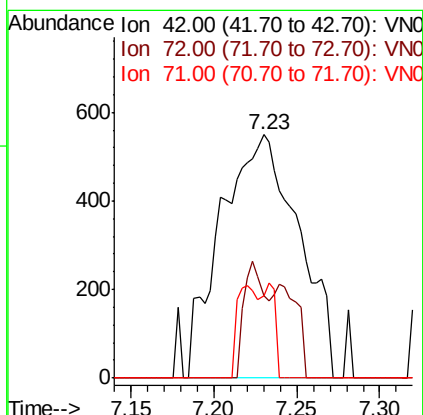
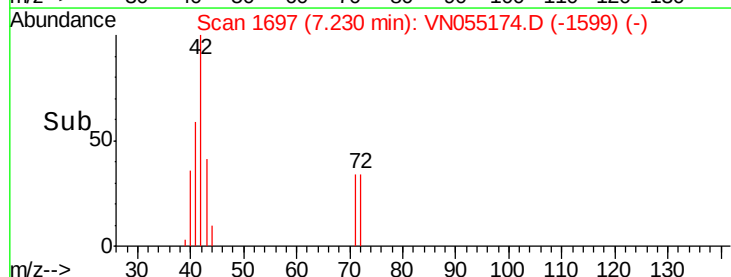
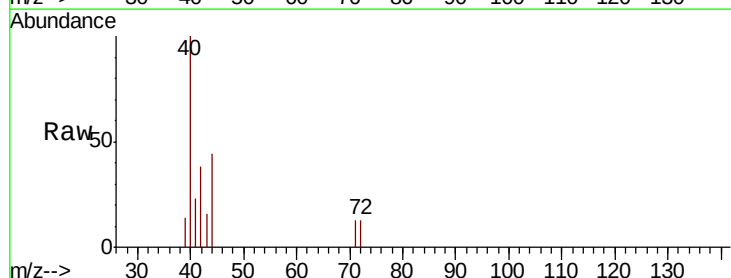
Instrument :
MSVOA_N
ClientSampled :
I.BLK

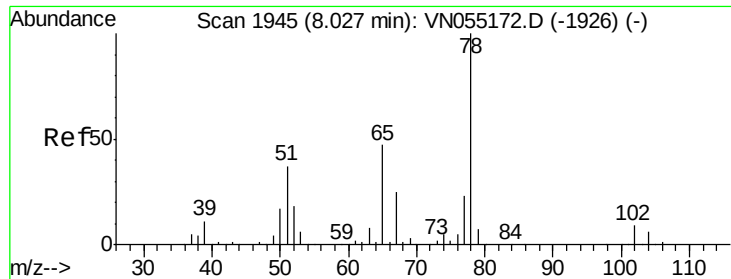
Tot Ion: 96 Resp: 1076
Ion Ratio Lower Upper
96 100
61 121.5 119.3 178.9
98 57.2 53.0 79.4



#29
Tetrahydrofuran
Concen: 1.337 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion: 42 Resp: 1783
Ion Ratio Lower Upper
42 100
72 13.4 29.4 44.2#
71 10.4 27.8 41.8#

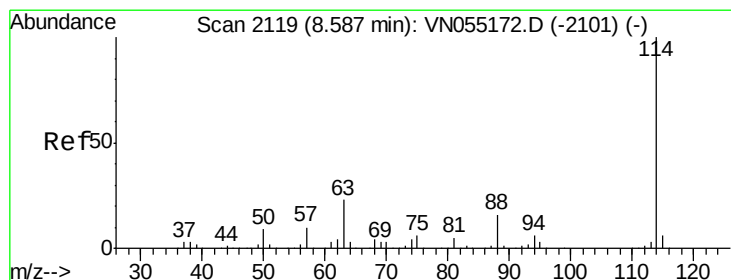
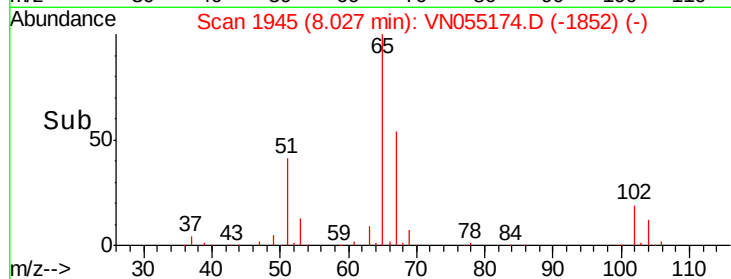
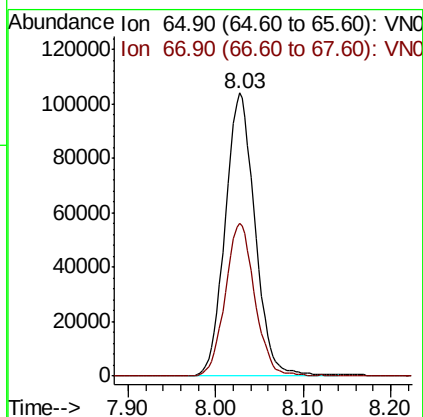
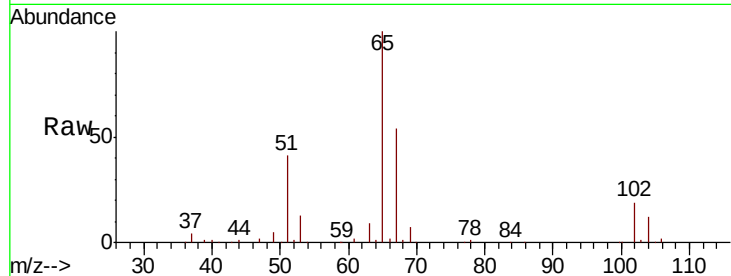




#33
 1,2-Dichloroethane-d4
 Concen: 48.471 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

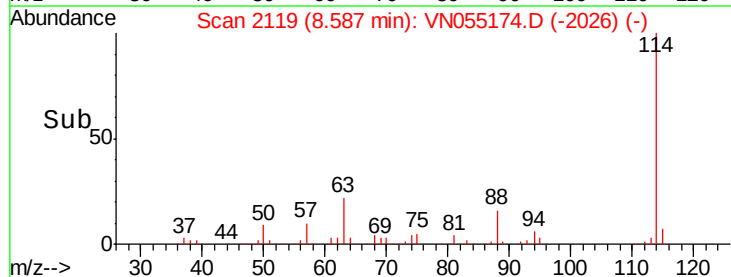
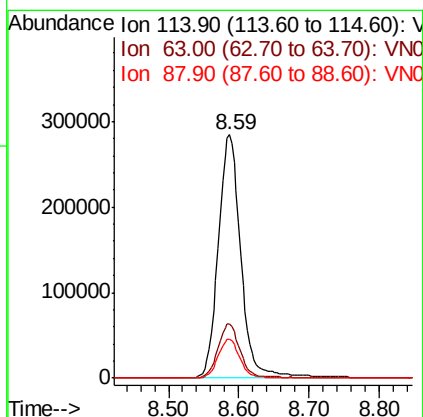
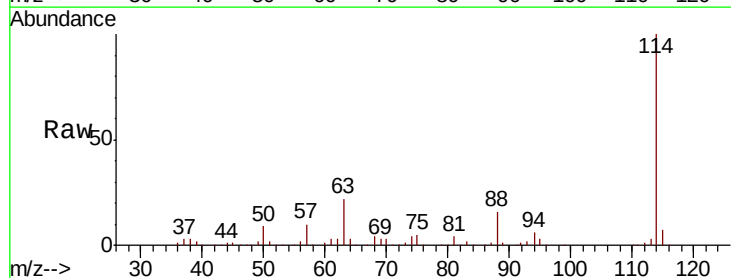
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

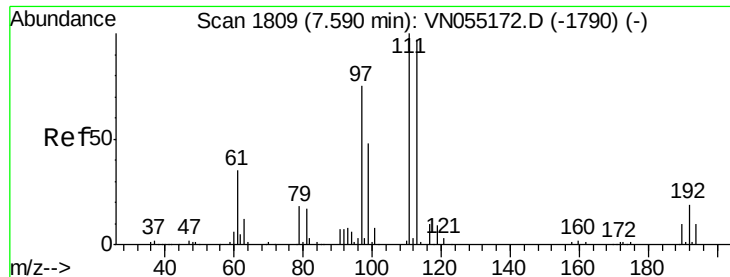
Tot Ion: 65 Resp: 246284
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Tgt Ion: 114 Resp: 637740
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.2
 88 16.1 0.0 32.8

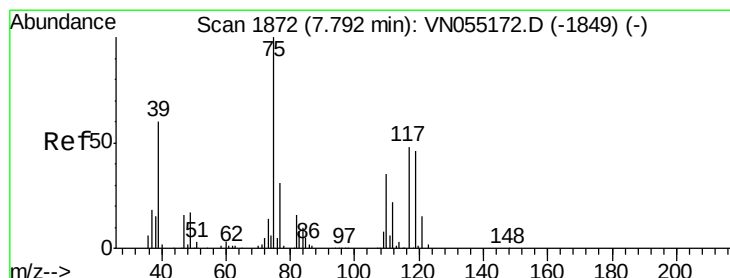
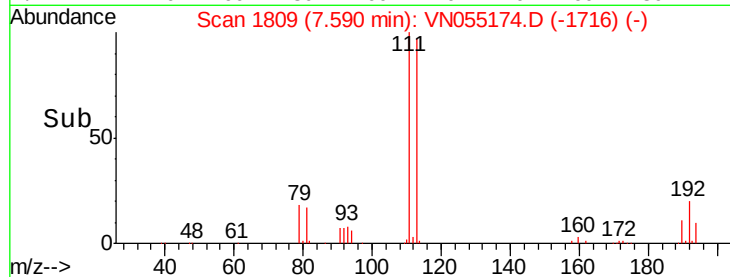
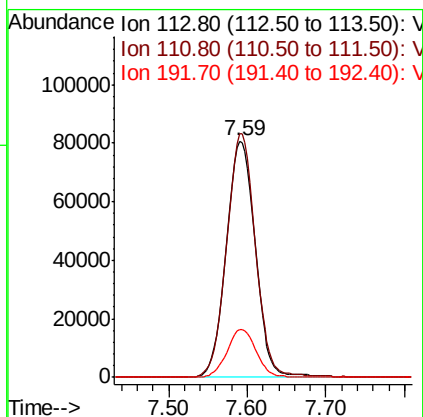
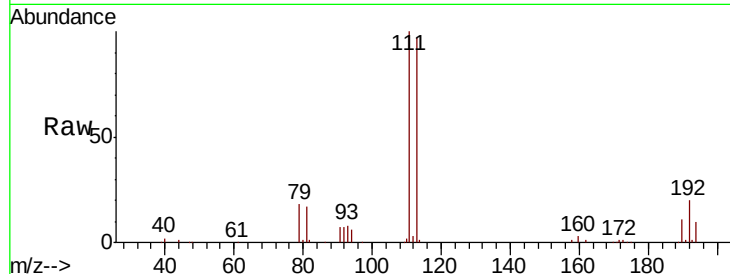




#35
 Dibromofluoromethane
 Concen: 47.847 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

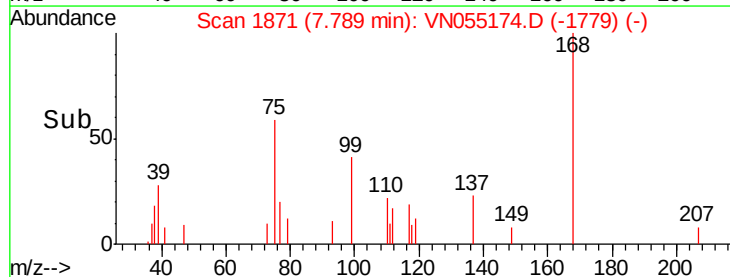
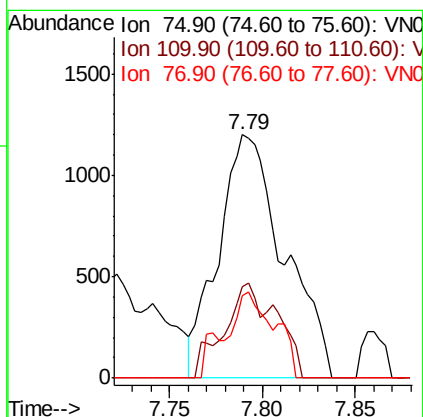
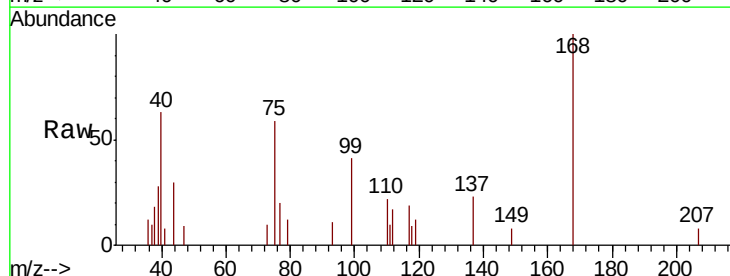
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

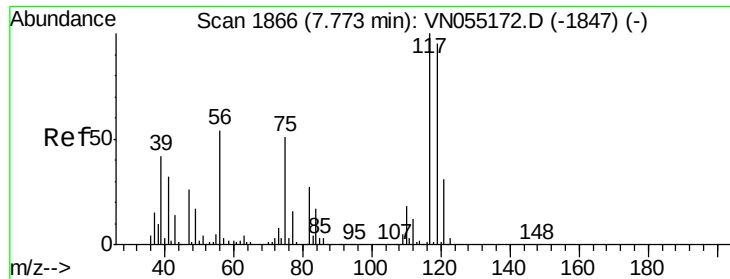
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.0	121.4
192	20.3	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 0.499 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	22.7	17.1	51.2
77	21.3	24.6	36.8#

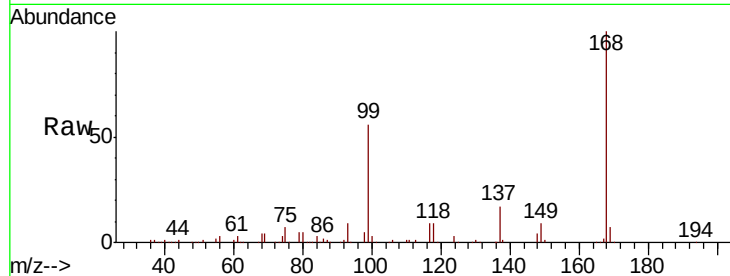




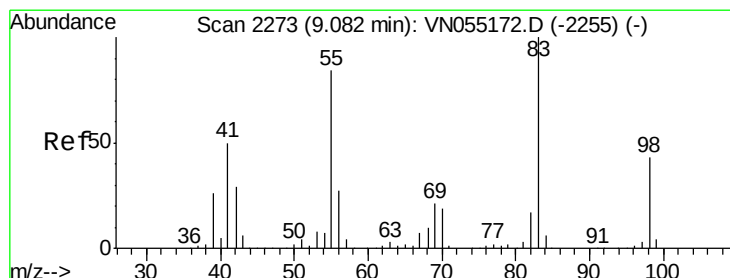
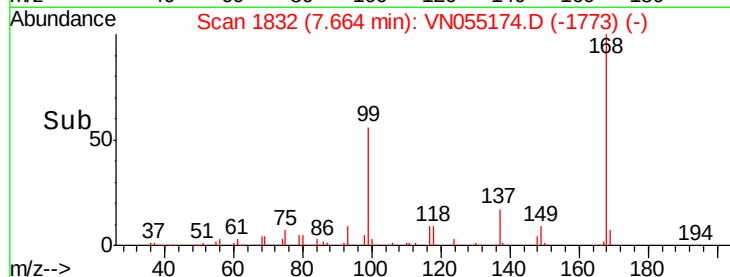
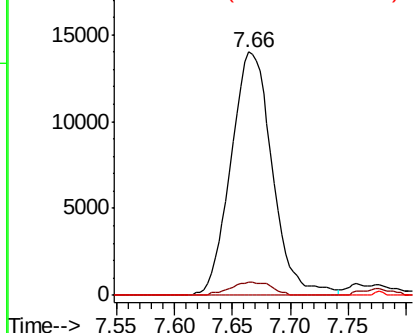
#38
Carbon Tetrachloride
Concen: 6.267 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion:117 Resp: 34740
Ion Ratio Lower Upper
117 100
119 5.2 76.0 114.0#
121 0.0 24.6 36.8#

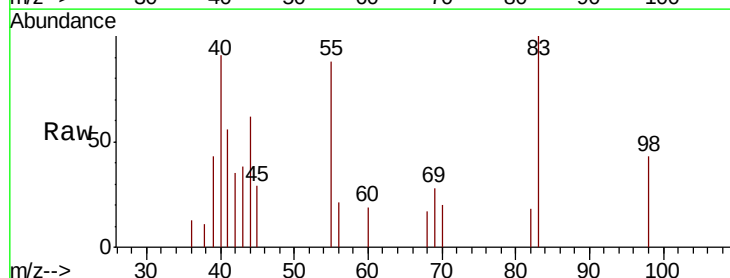


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

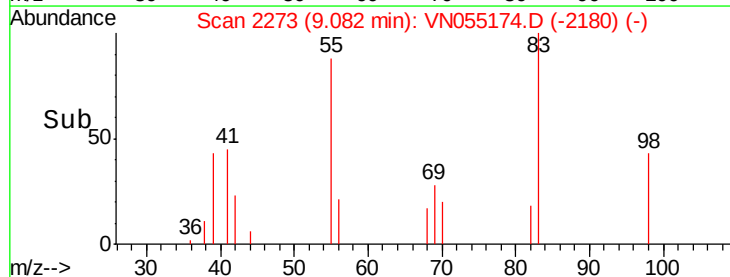
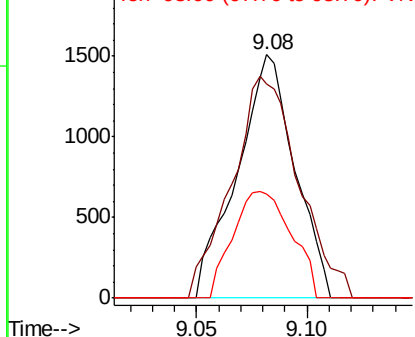


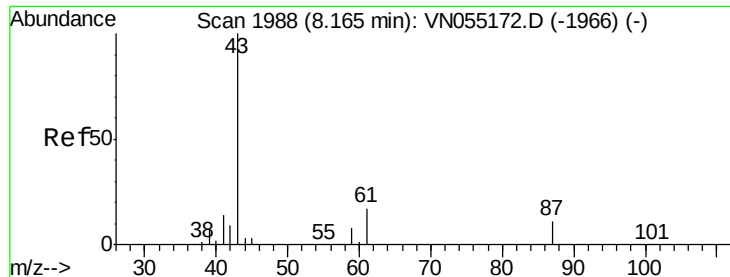
#39
Methylcyclohexane
Concen: 0.388 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion: 83 Resp: 2740
Ion Ratio Lower Upper
83 100
55 88.0 67.4 101.0
98 43.0 34.7 52.1



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





#43

Isopropyl Acetate

Concen: 1.752 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

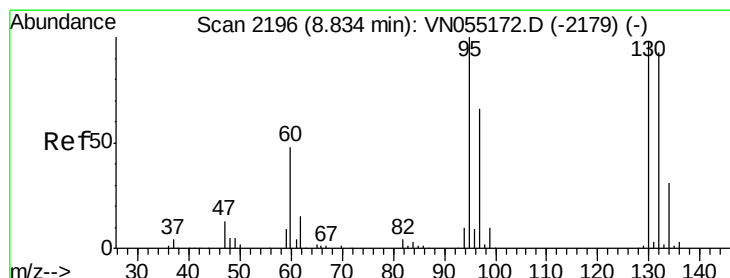
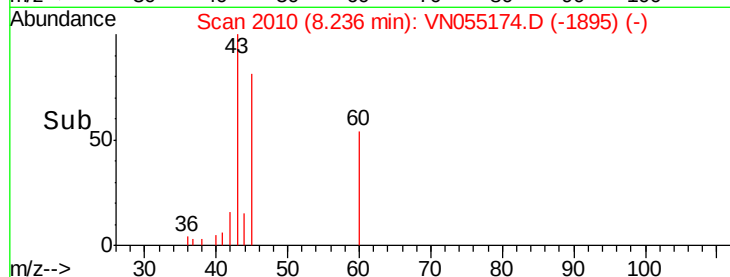
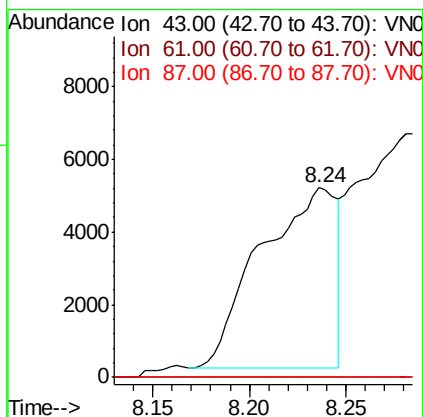
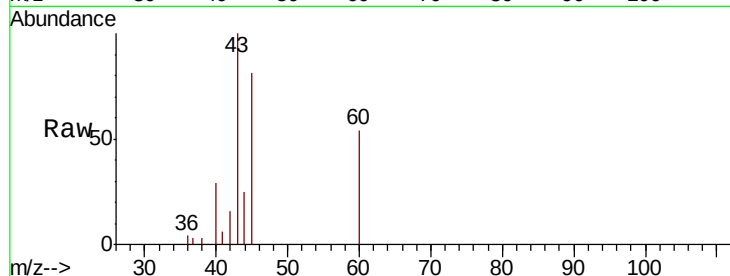
Tot Ion: 43 Resp: 13551

Ion Ratio Lower Upper

43 100

61 0.0 20.6 30.8#

87 0.0 8.8 13.2#



#44

Trichloroethene

Concen: 0.380 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055174.D

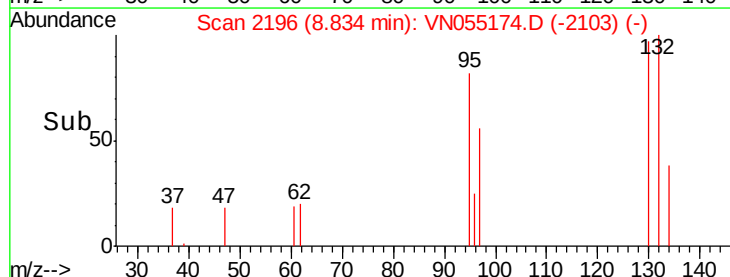
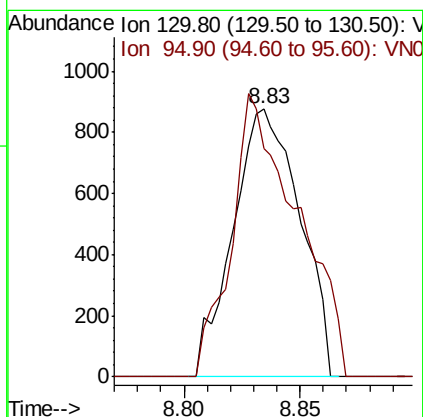
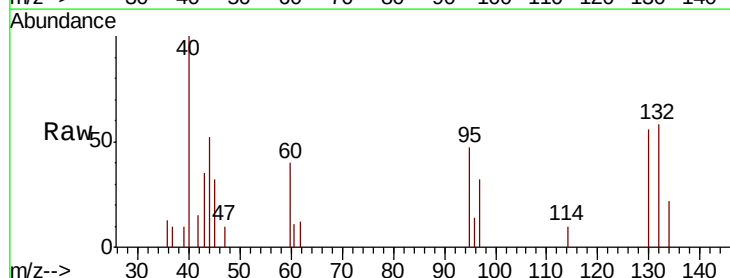
Acq: 22 Apr 2019 11:28

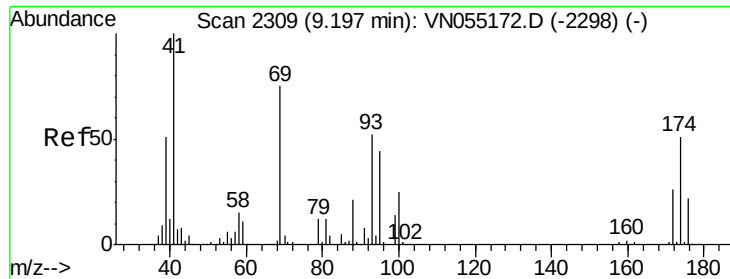
Tgt Ion:130 Resp: 1755

Ion Ratio Lower Upper

130 100

95 85.1 0.0 203.6

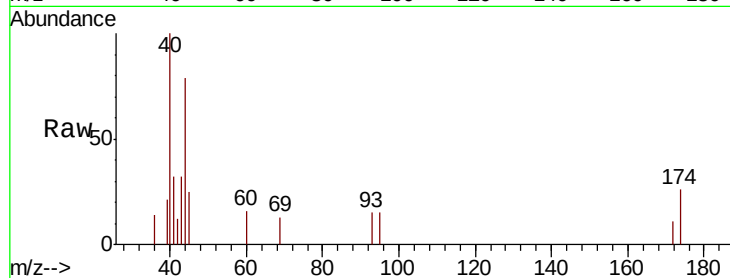




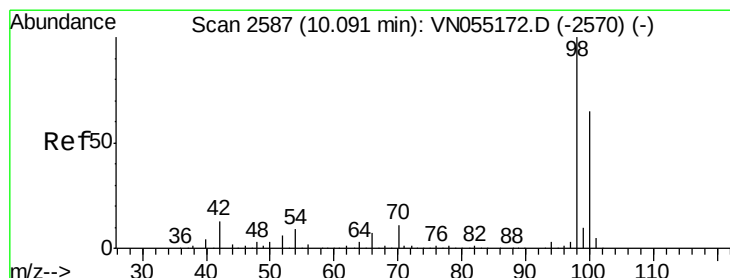
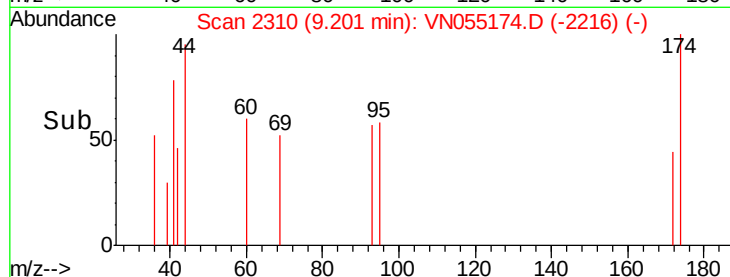
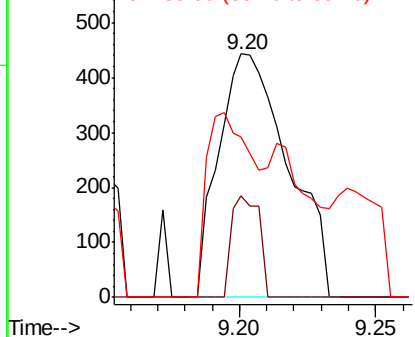
#48
Methyl methacrylate
Concen: 0.210 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion: 41 Resp: 787
Ion Ratio Lower Upper
41 100
69 16.6 63.6 95.4#
39 49.2 43.8 65.8

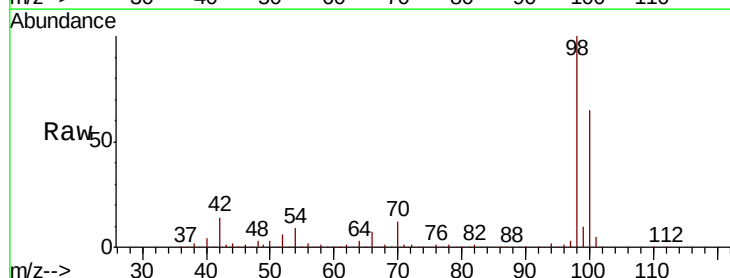


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

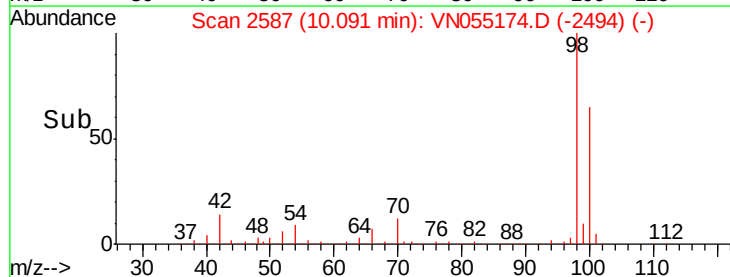
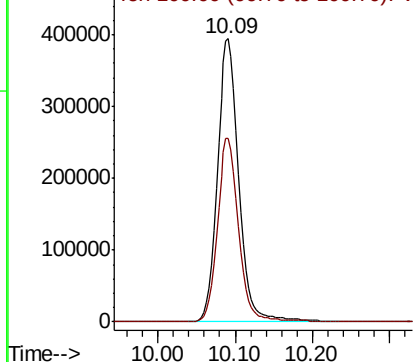


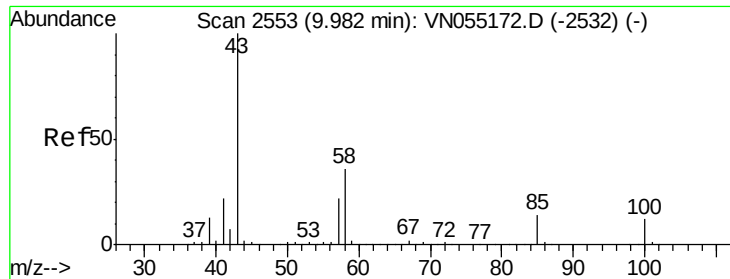
#50
Toluene-d8
Concen: 47.557 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion: 98 Resp: 763406
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.824 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

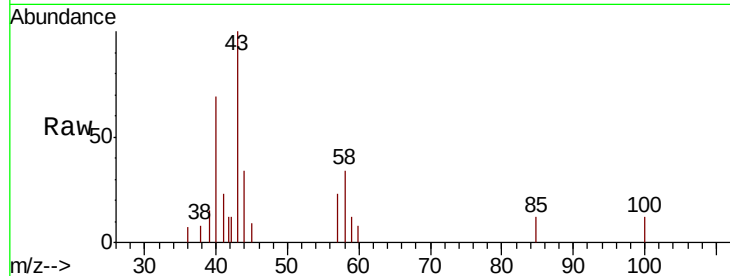
I.BLK

Tot Ion: 43 Resp: 3668

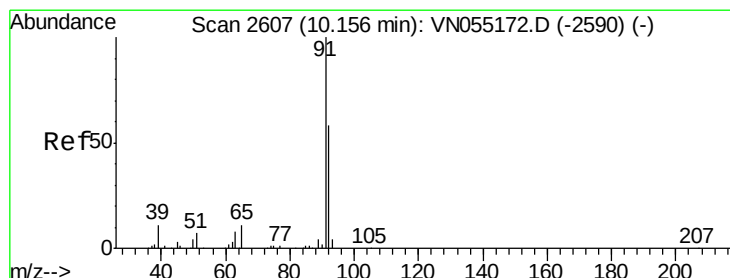
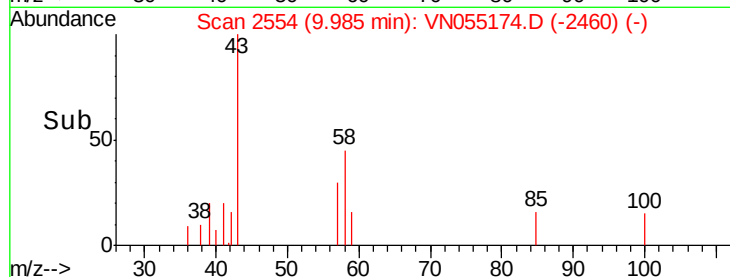
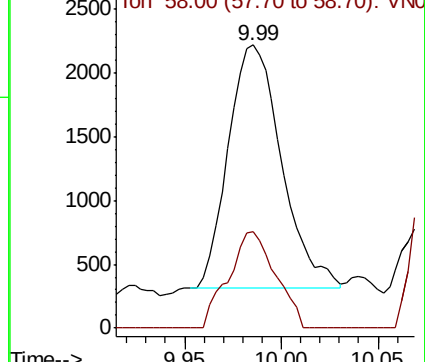
Ion Ratio Lower Upper

43 100

58 34.8 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN055172.D (-2532) (-)



#52

Toluene

Concen: 0.230 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055174.D

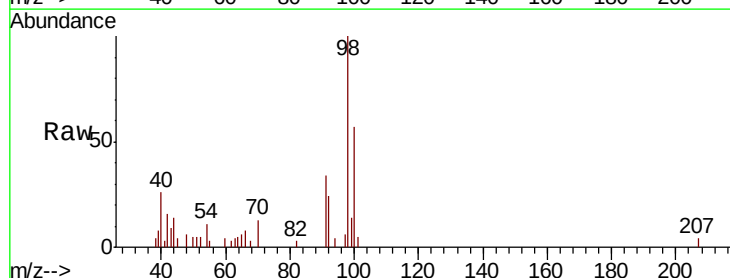
Acq: 22 Apr 2019 11:28

Tgt Ion: 92 Resp: 2459

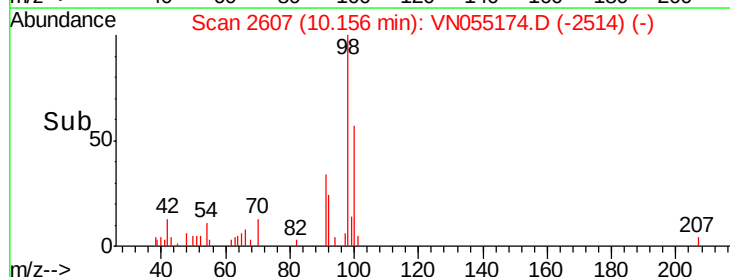
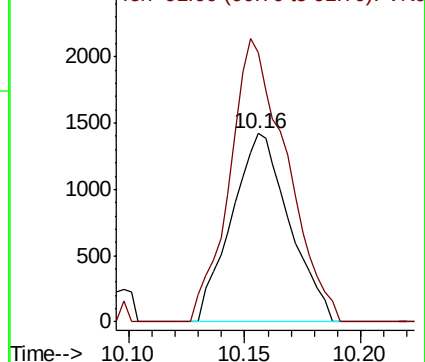
Ion Ratio Lower Upper

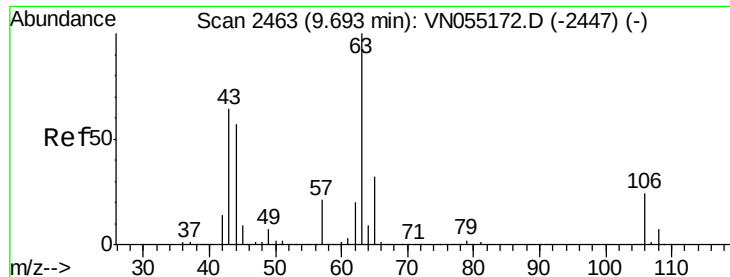
92 100

91 148.6 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VN055172.D (-2590) (-)

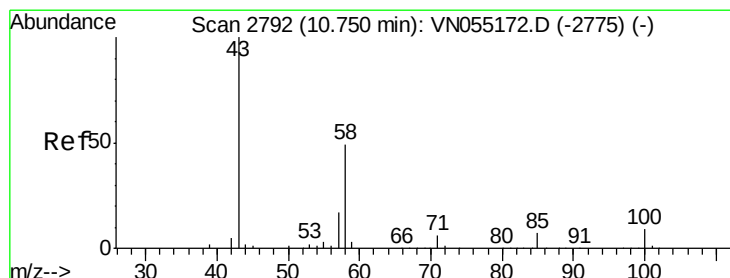
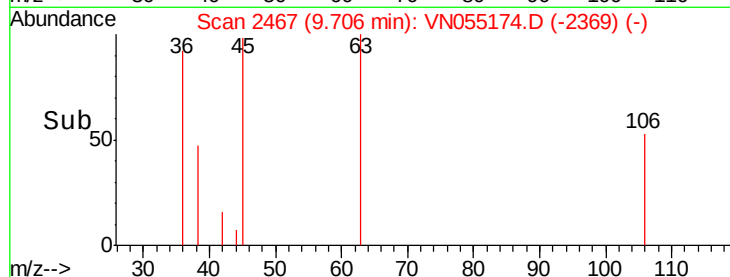
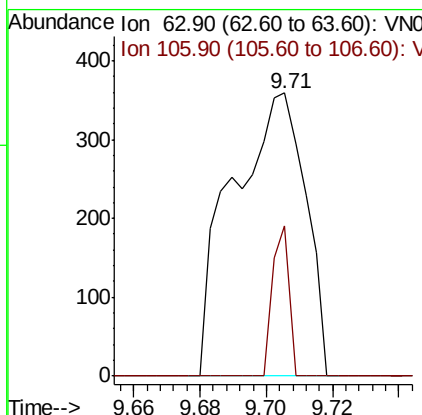
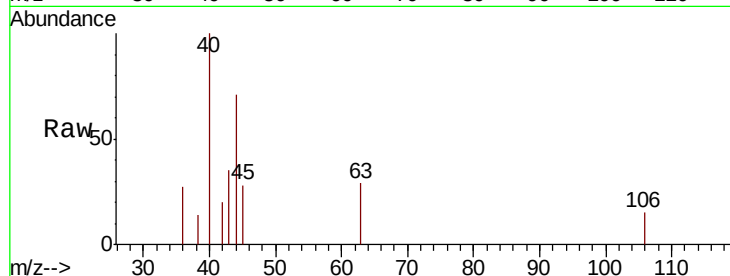




#58
2-Chloroethyl Vinyl ether
Concen: 11.559 ug/l
RT: 9.71 min Scan# 2467
Delta R.T. 0.01 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

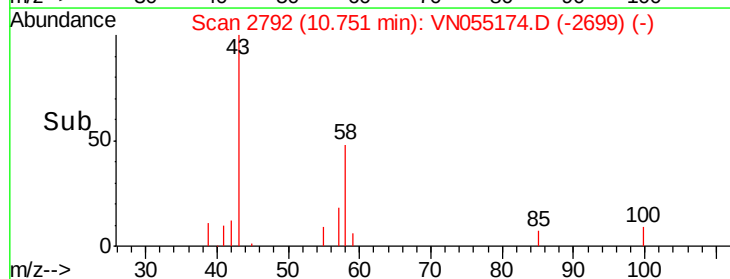
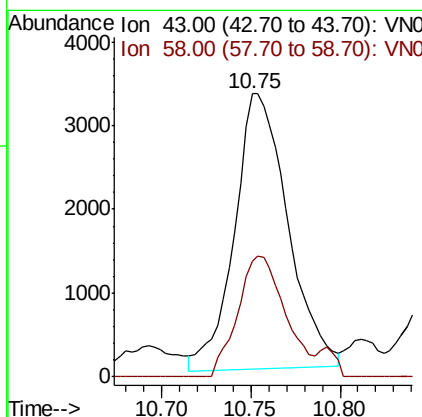
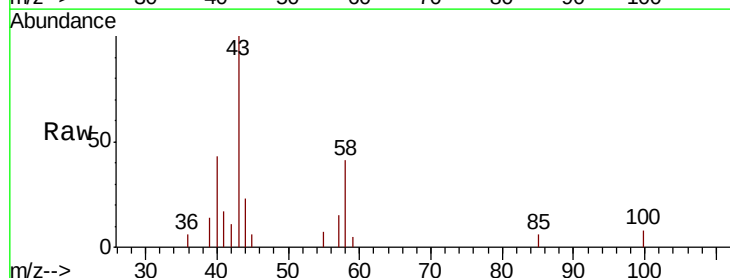
Instrument :
MSVOA_N
ClientSampled :
I.BLK

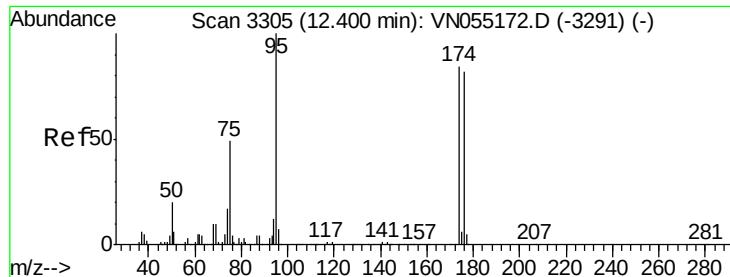
Tot Ion: 63 Resp: 551
Ion Ratio Lower Upper
63 100
106 12.0 19.4 29.0#



#59
2-Hexanone
Concen: 2.437 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion: 43 Resp: 6852
Ion Ratio Lower Upper
43 100
58 39.4 24.5 73.5





#62

4-Bromofluorobenzene

Concen: 45.992 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

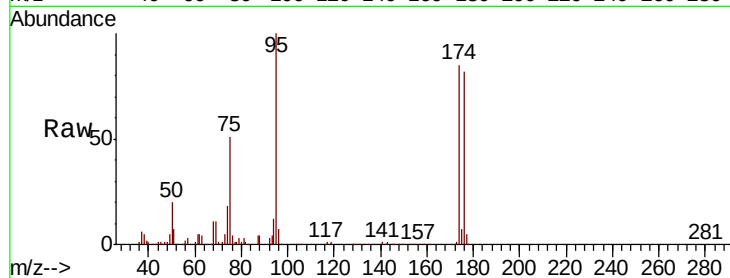
Tot Ion: 95 Resp: 233793

Ion Ratio Lower Upper

95 100

174 85.7 0.0 168.4

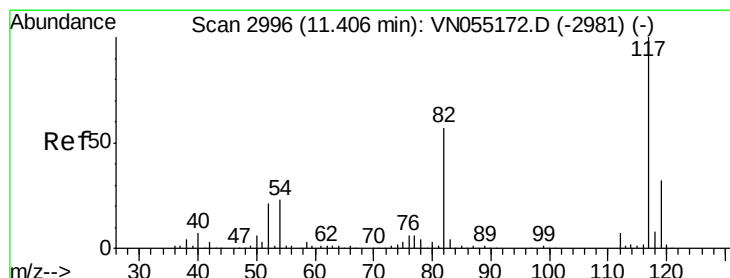
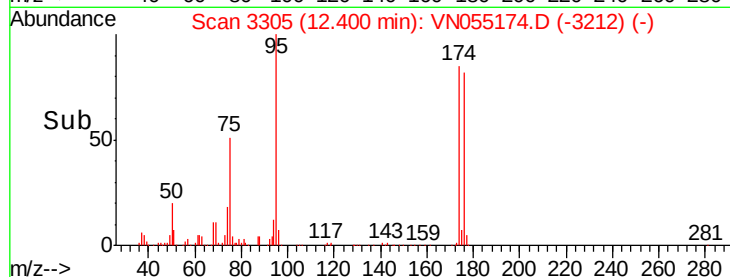
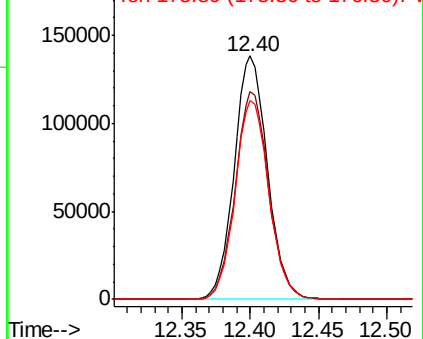
176 82.6 0.0 164.0



Abundance Ion 94.90 (94.60 to 95.60): VN055174.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055174.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055174.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

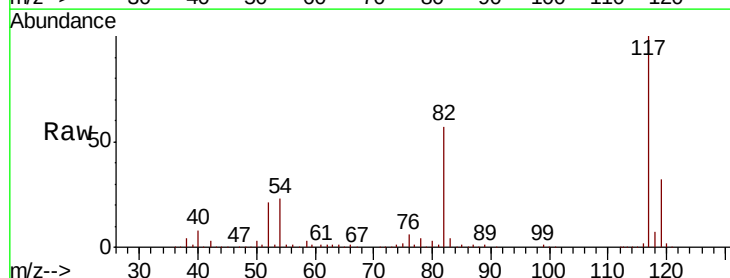
Tgt Ion: 117 Resp: 568273

Ion Ratio Lower Upper

117 100

82 56.9 45.7 68.5

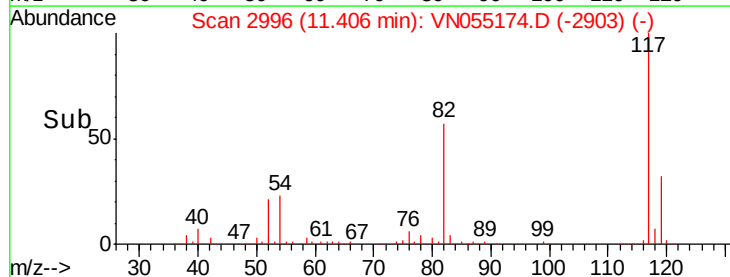
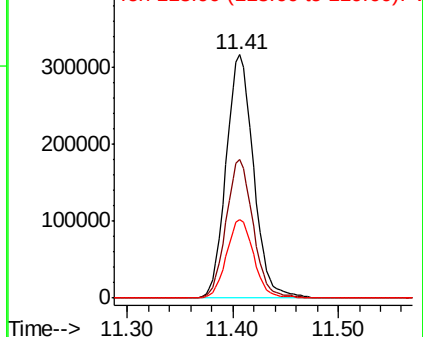
119 32.3 25.4 38.2

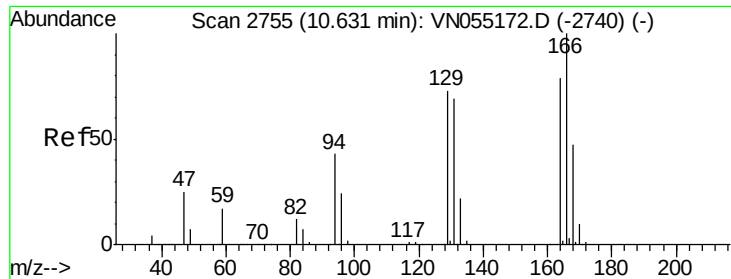


Abundance Ion 116.90 (116.60 to 117.60): VN055174.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055174.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055174.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.458 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

Tot Ion:164 Resp: 2123

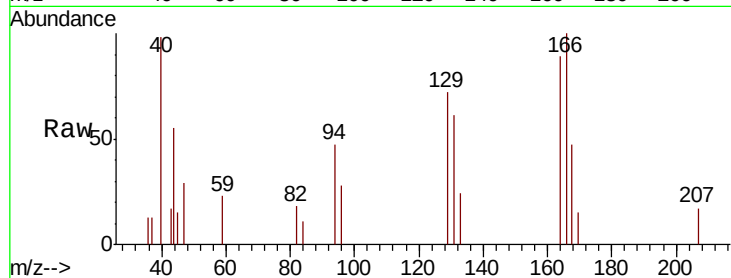
Ion Ratio Lower Upper

164 100

166 112.3 101.9 152.9

129 80.5 74.1 111.1

131 68.6 70.6 106.0#

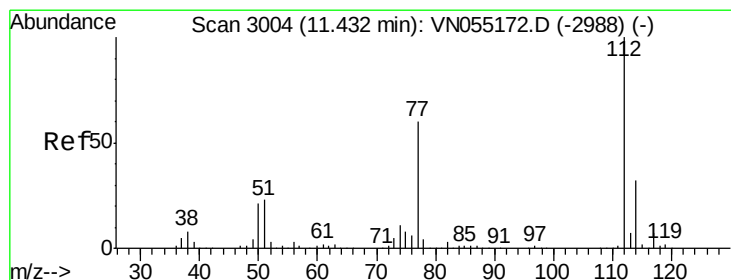
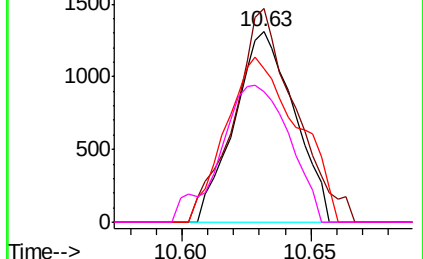
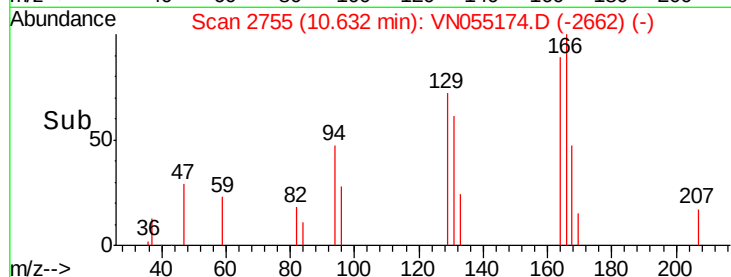


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.283 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN055174.D

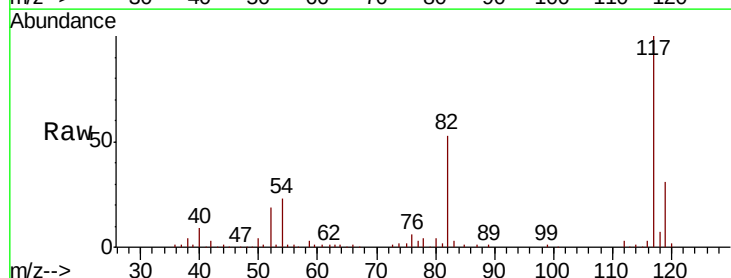
Acq: 22 Apr 2019 11:28

Tgt Ion:112 Resp: 3285

Ion Ratio Lower Upper

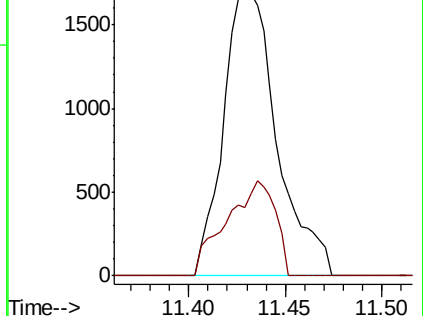
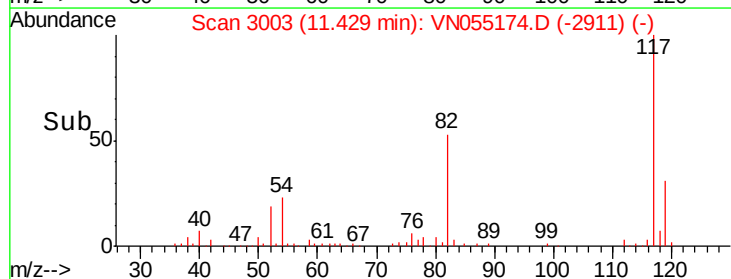
112 100

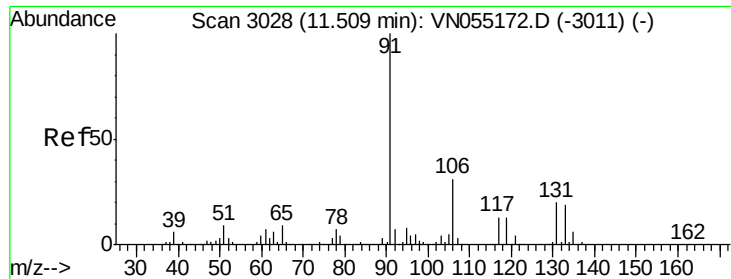
114 24.3 25.4 38.0#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

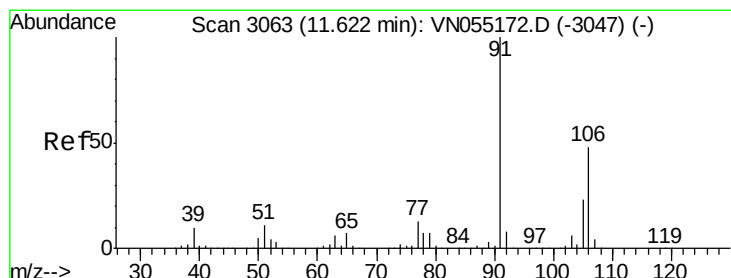
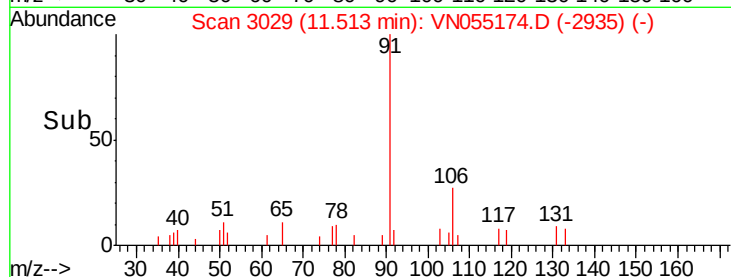
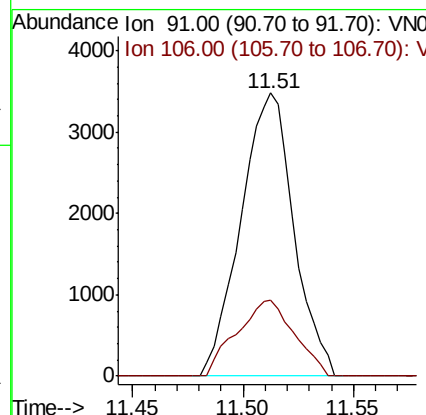
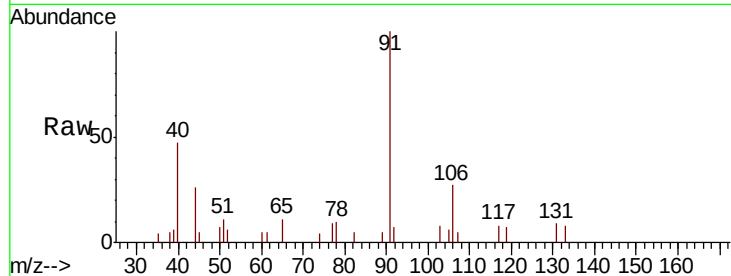




#67
Ethyl Benzene
Concen: 0.281 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

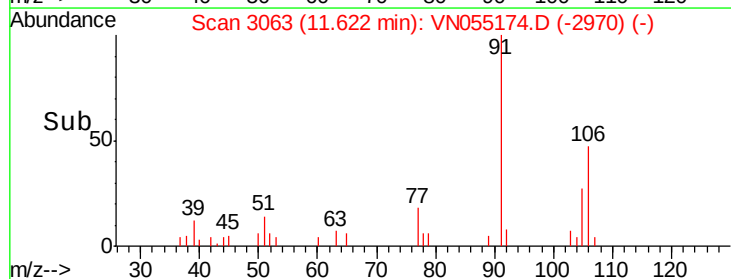
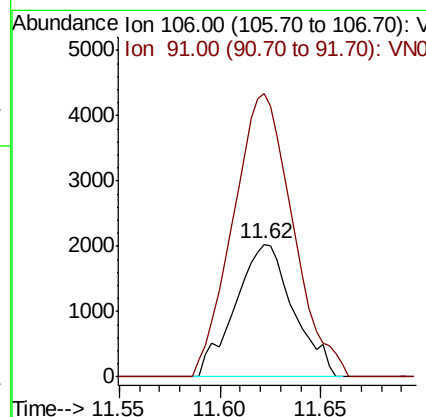
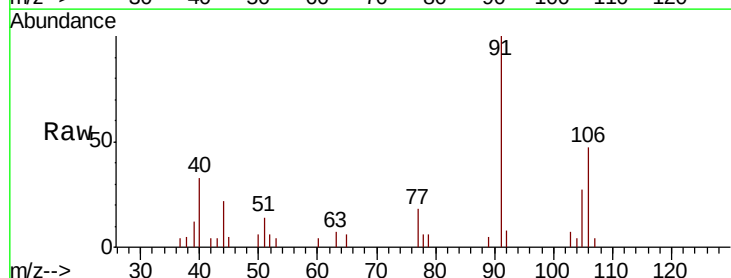
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

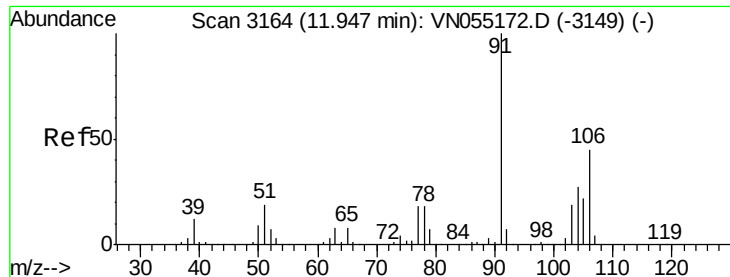
Tot Ion: 91 Resp: 5801
Ion Ratio Lower Upper
91 100
106 27.0 24.5 36.7



#68
m/p-Xylenes
Concen: 0.552 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion: 106 Resp: 4090
Ion Ratio Lower Upper
106 100
91 219.5 167.1 250.7

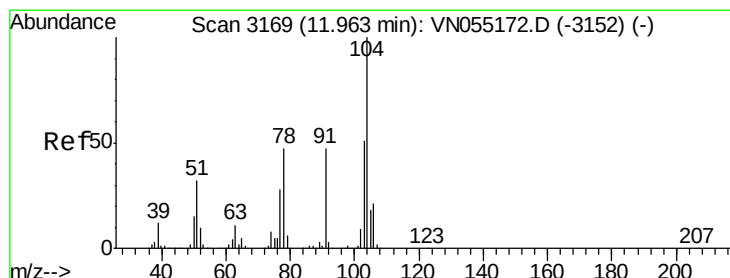
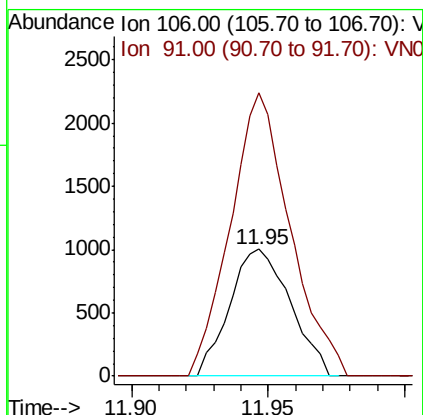
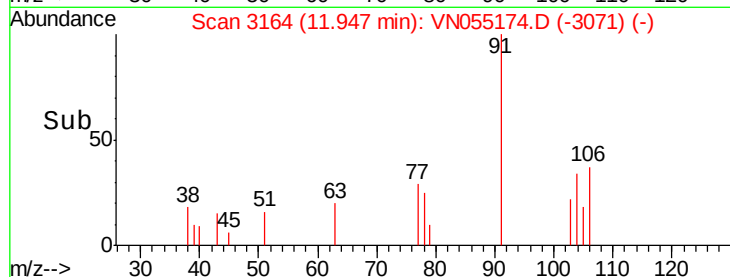
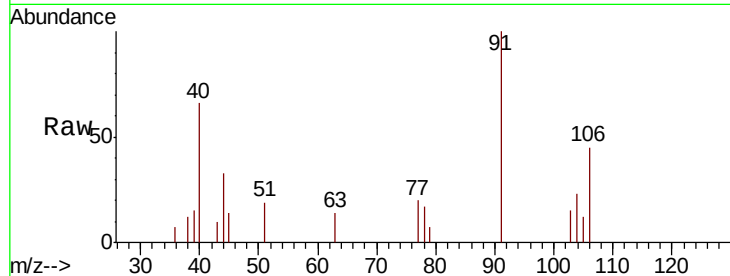




#69
o-Xylene
Concen: 0.211 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

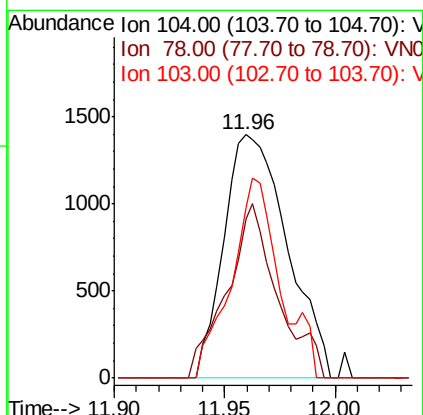
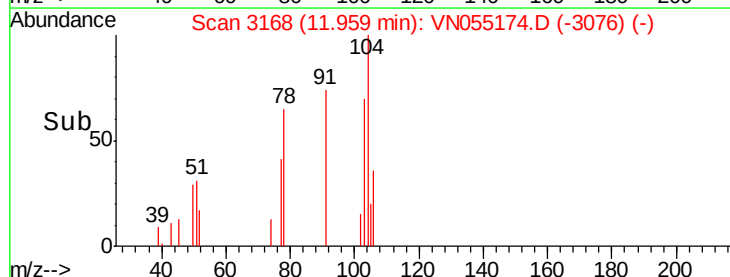
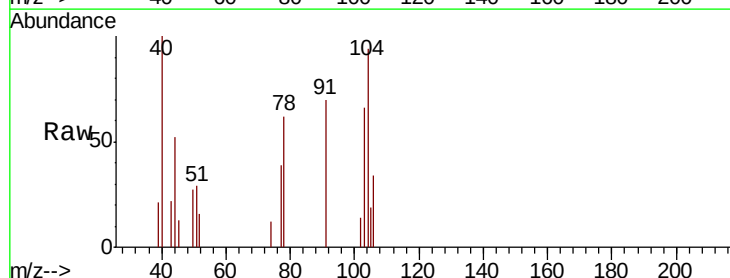
Instrument :
MSVOA_N
ClientSampled :
I.BLK

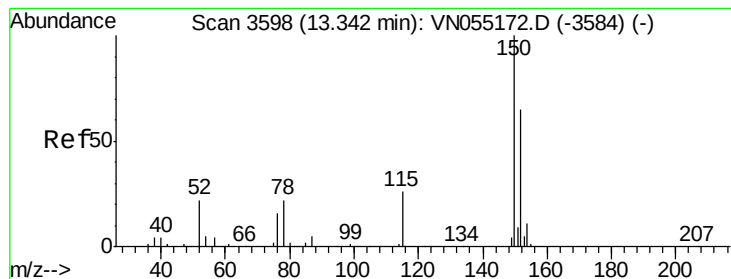
Tot Ion:106 Resp: 1550
Ion Ratio Lower Upper
106 100
91 218.9 110.6 331.8



#70
Styrene
Concen: 0.244 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN055174.D
Acq: 22 Apr 2019 11:28

Tgt Ion:104 Resp: 2780
Ion Ratio Lower Upper
104 100
78 57.5 41.3 61.9
103 63.2 44.2 66.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

I.BLK

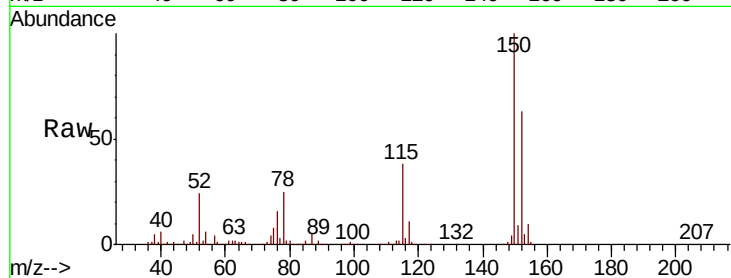
Tot Ion:152 Resp: 159895

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.7

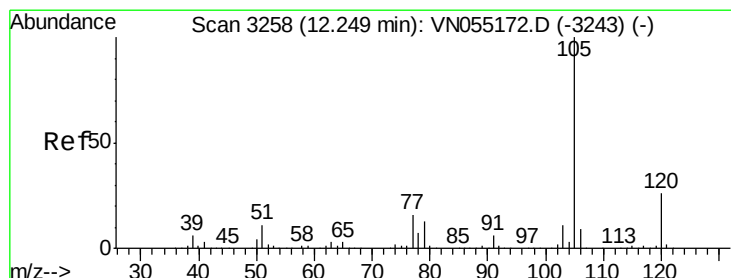
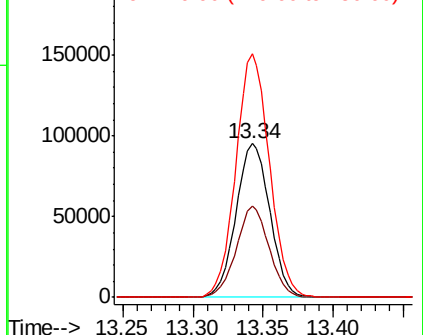
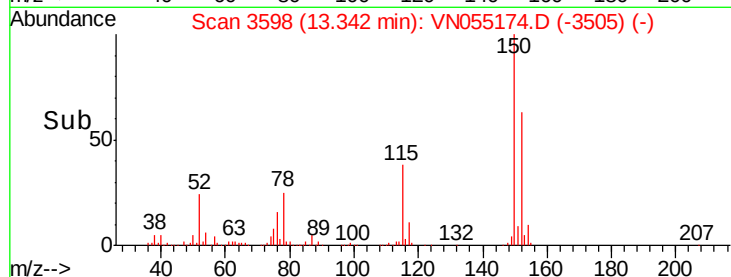
150 157.0 0.0 346.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055174.D

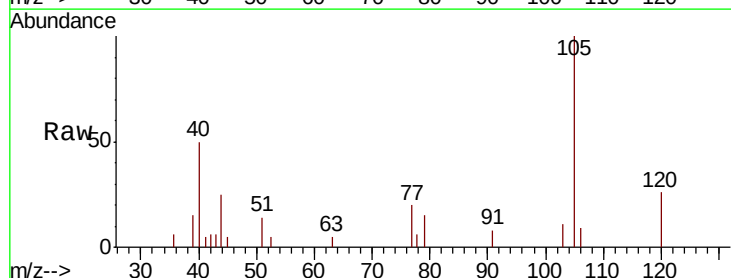
Acq: 22 Apr 2019 11:28

Tgt Ion:105 Resp: 4988

Ion Ratio Lower Upper

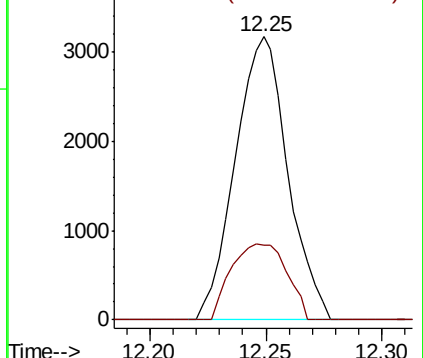
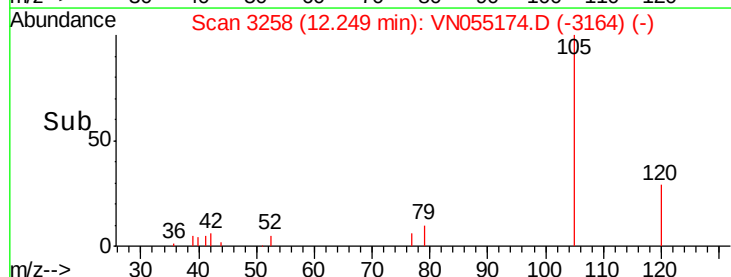
105 100

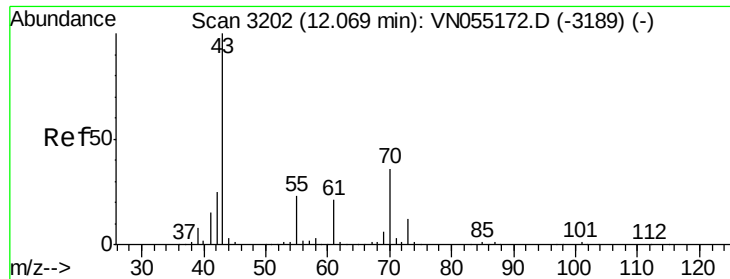
120 28.5 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.969 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

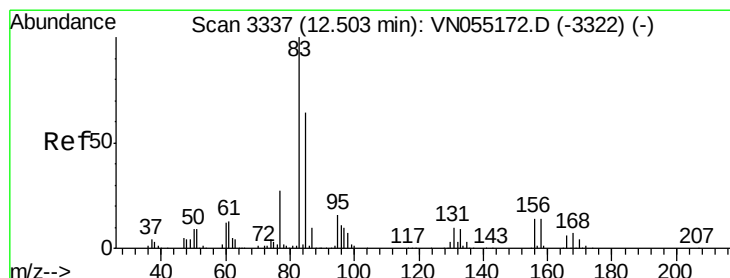
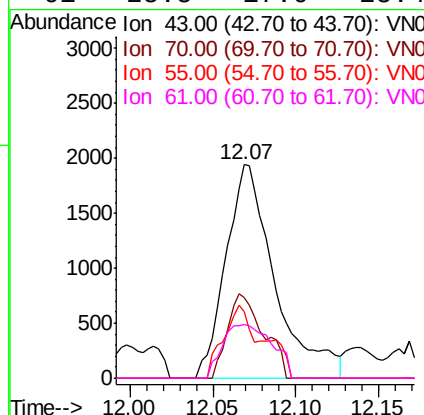
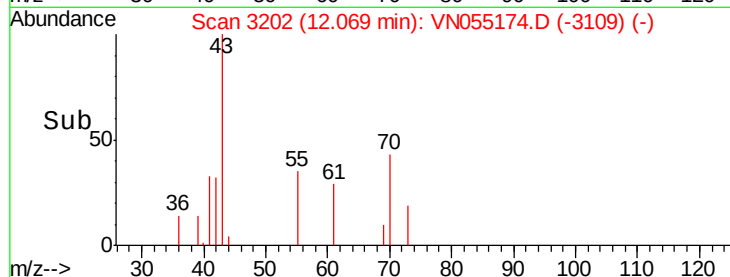
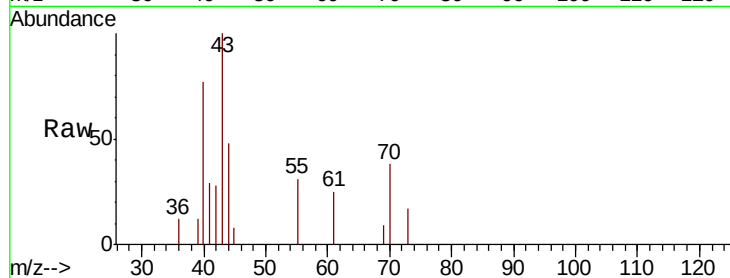
MSVOA_N

ClientSampleId :

I.BLK

Tot Ion: 43 Resp: 3994

Ion	Ratio	Lower	Upper
43	100		
70	29.0	29.0	43.6#
55	20.4	18.5	27.7
61	25.5	17.0	25.4#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

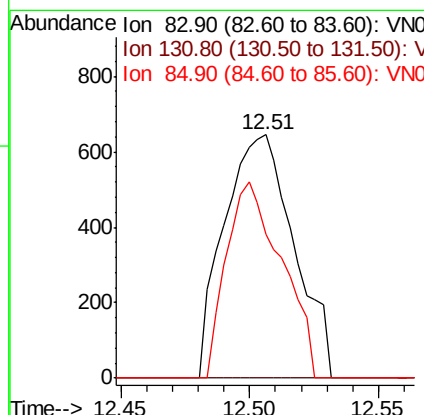
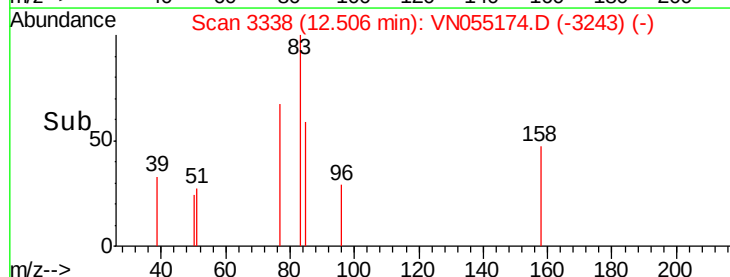
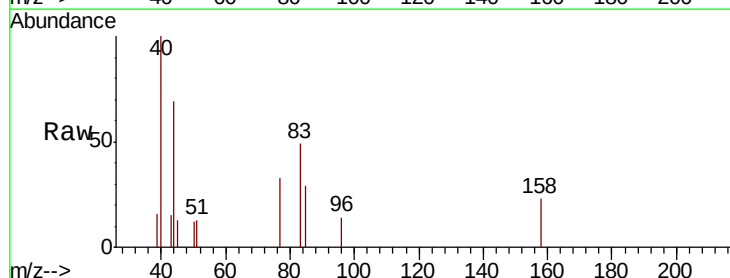
Delta R.T. 0.00 min

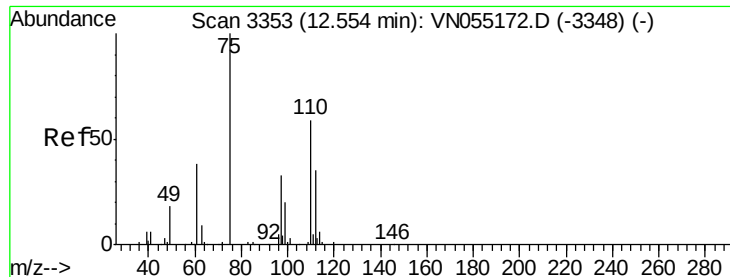
Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Tgt Ion: 83 Resp: 1216

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	63.9	32.1	96.3





#76

1,2,3-Trichloropropane

Concen: 36.737 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

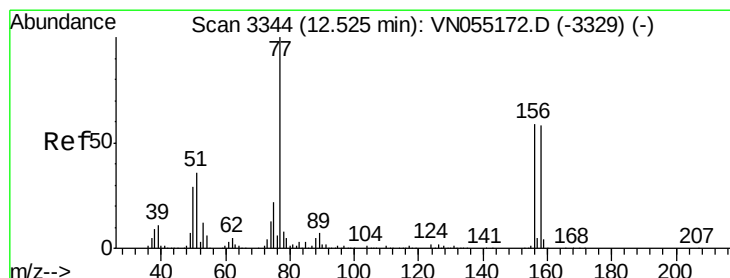
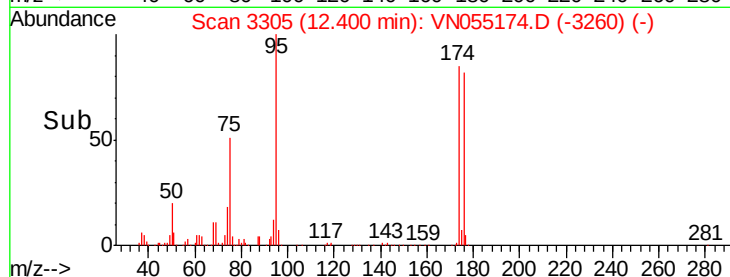
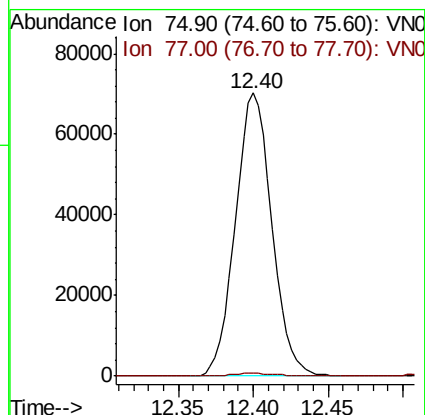
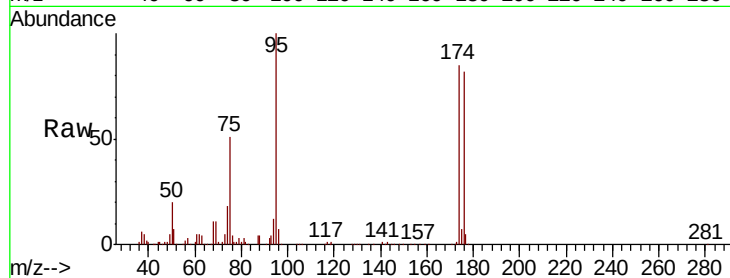
I.BLK

Tot Ion: 75 Resp: 119168

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#77

Bromobenzene

Concen: 0.365 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

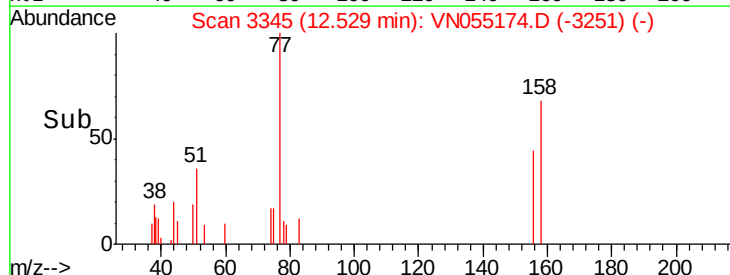
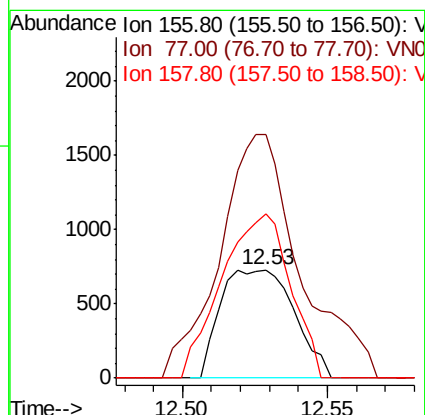
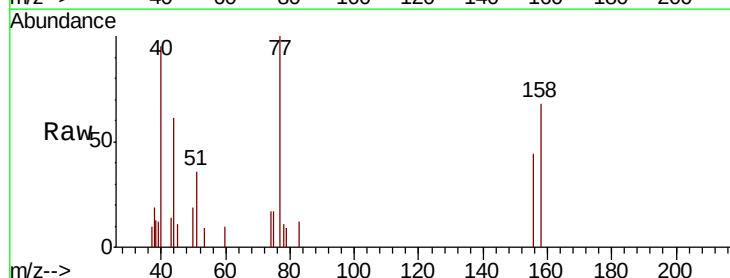
Tgt Ion: 156 Resp: 1287

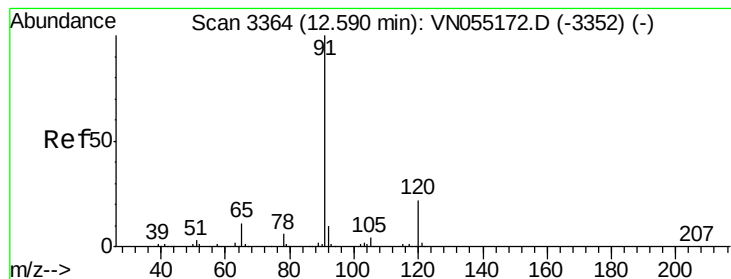
Ion Ratio Lower Upper

156 100

77 246.0 98.0 293.9

158 141.5 48.9 146.8





#78

n-propylbenzene

Concen: 0.552 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

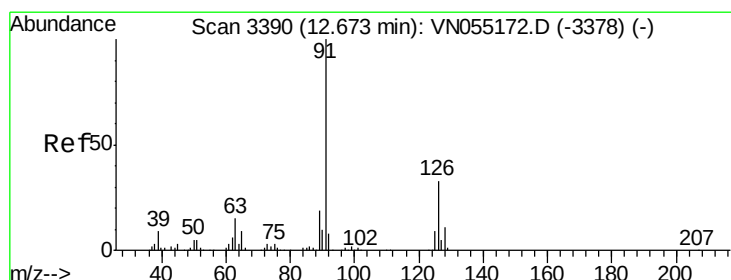
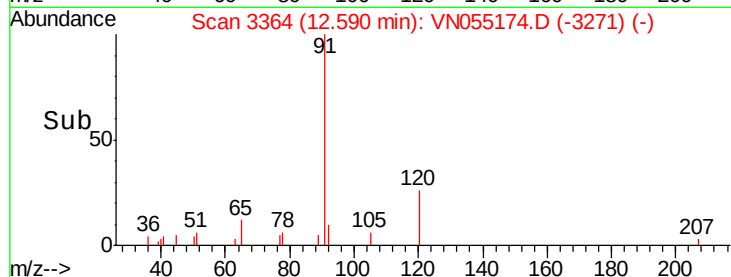
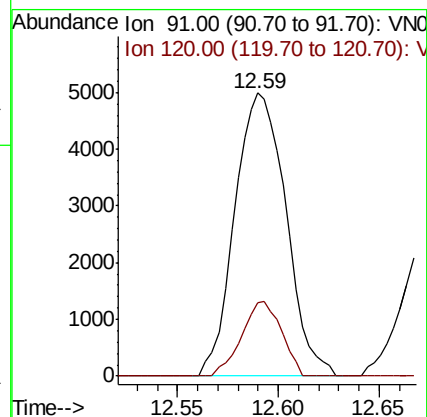
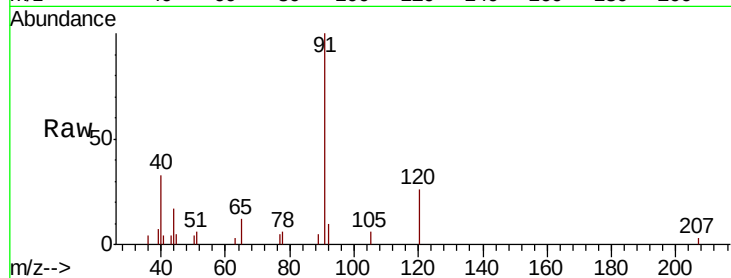
I.BLK

Tot Ion: 91 Resp: 8844

Ion Ratio Lower Upper

91 100

120 20.7 11.3 33.9



#79

2-Chlorotoluene

Concen: 0.452 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055174.D

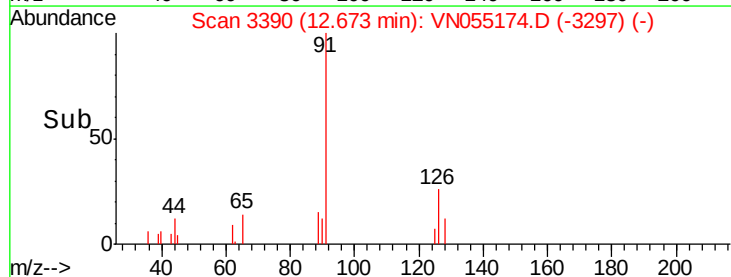
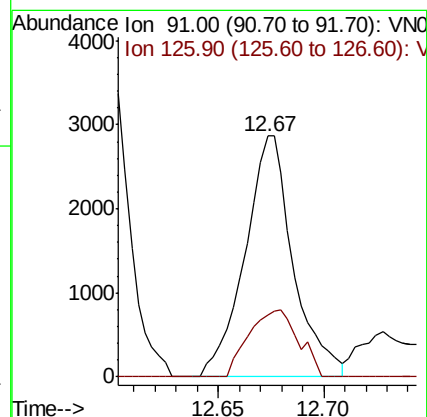
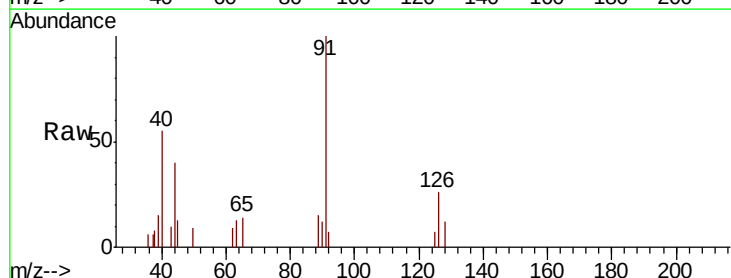
Acq: 22 Apr 2019 11:28

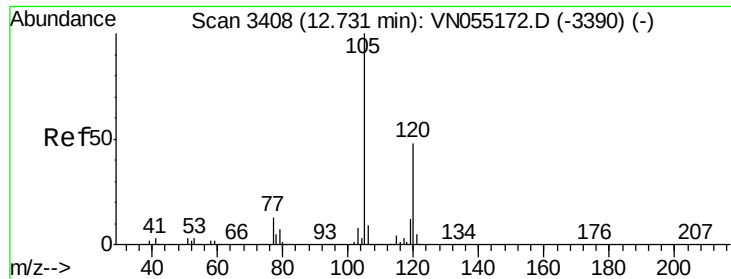
Tgt Ion: 91 Resp: 4572

Ion Ratio Lower Upper

91 100

126 28.6 16.8 50.3





#80

1,3,5-Trimethylbenzene

Concen: 0.436 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

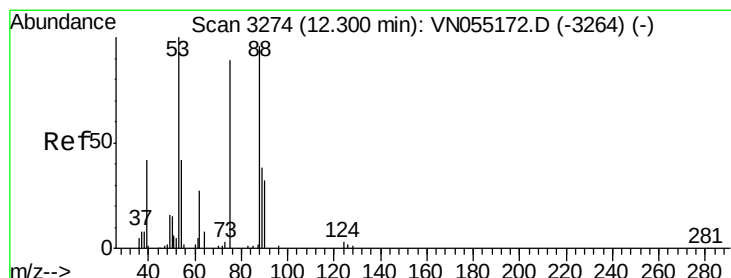
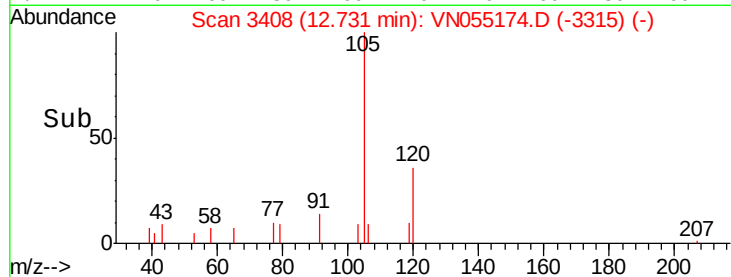
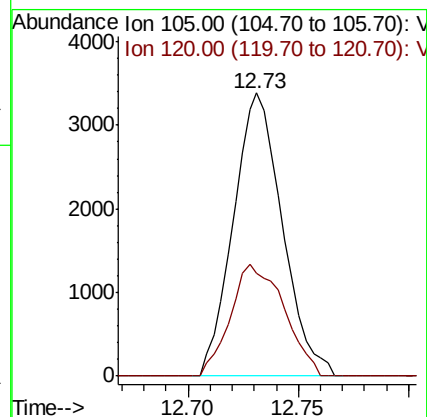
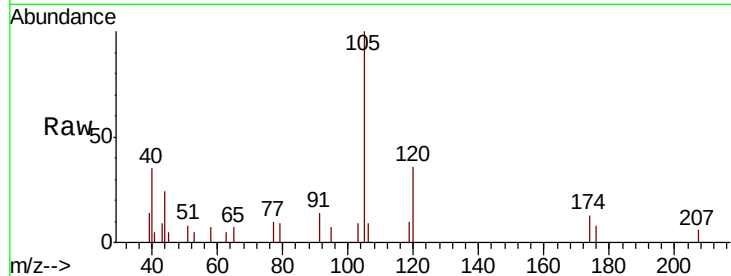
I.BLK

Tot Ion:105 Resp: 5221

Ion Ratio Lower Upper

105 100

120 43.3 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 139.263 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

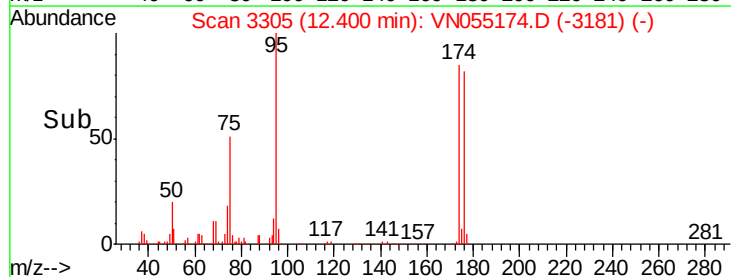
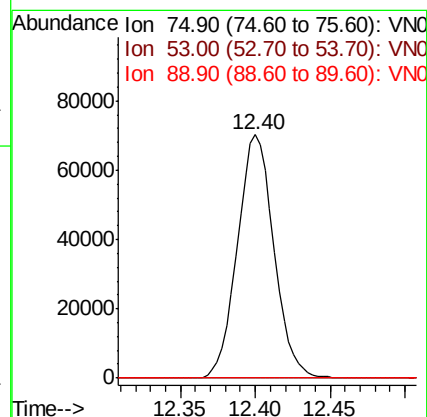
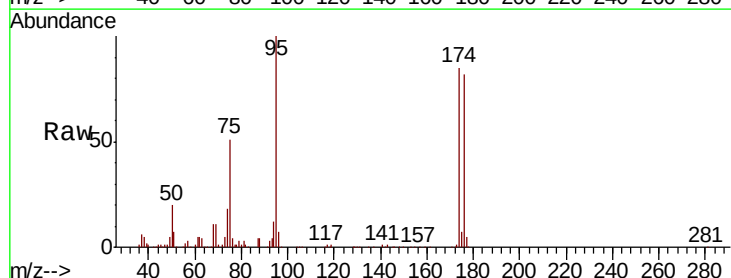
Tgt Ion: 75 Resp: 119168

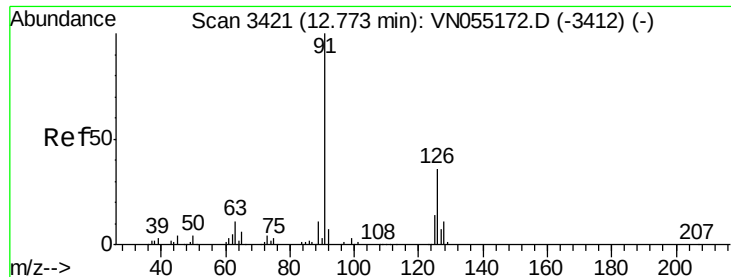
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.7 55.1#





#82

4-Chlorotoluene

Concen: 0.551 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. -0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

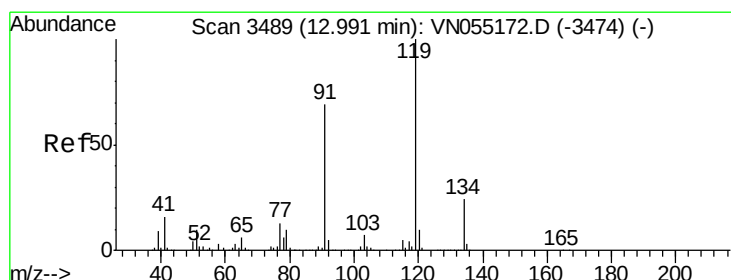
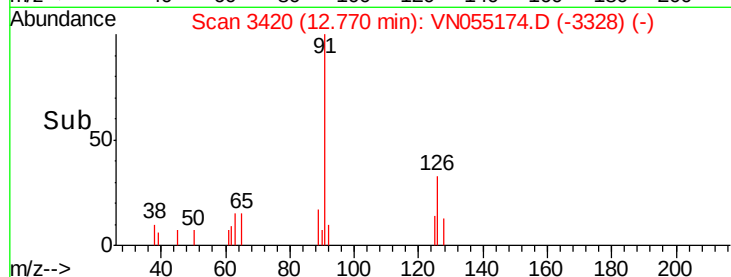
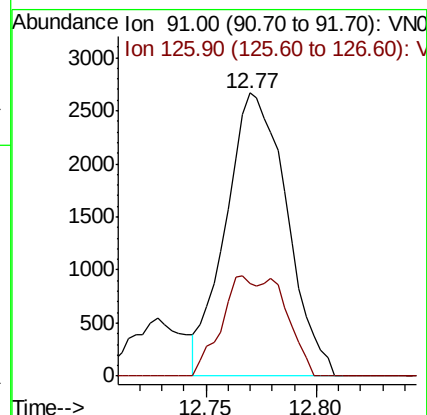
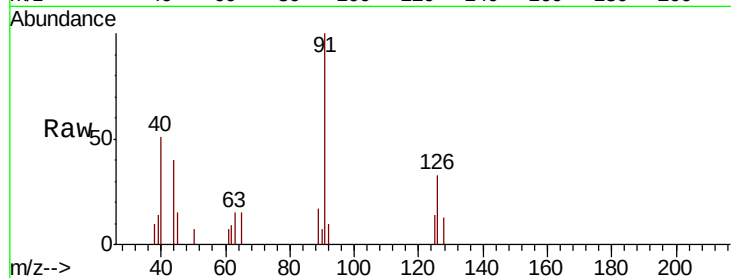
I.BLK

Tot Ion: 91 Resp: 5130

Ion Ratio Lower Upper

91 100

126 20.6 16.5 49.5



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

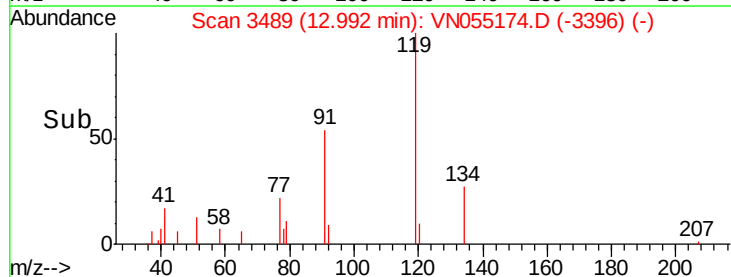
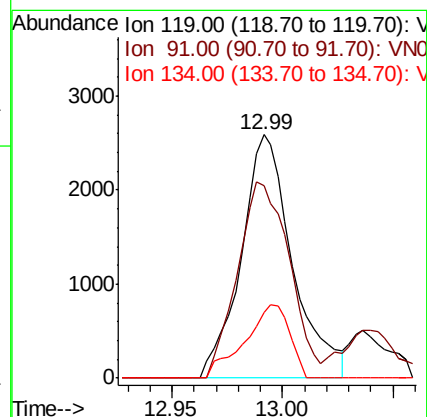
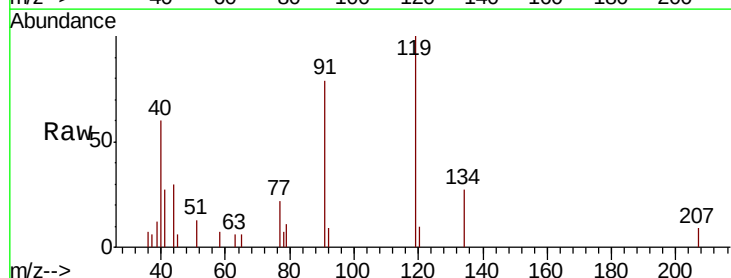
Tgt Ion: 119 Resp: 4181

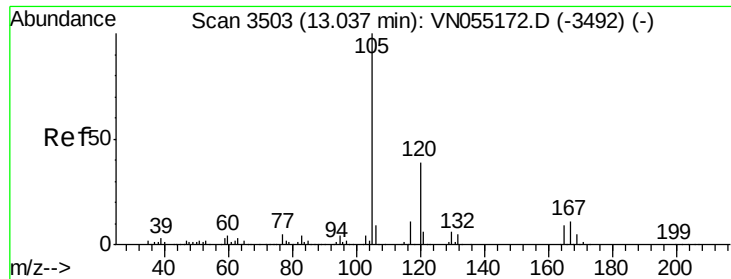
Ion Ratio Lower Upper

119 100

91 81.3 33.8 101.3

134 26.4 13.2 39.5

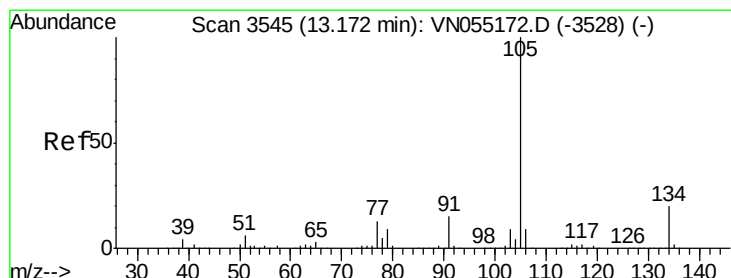
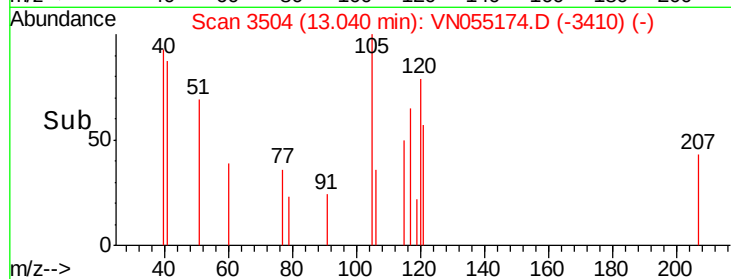
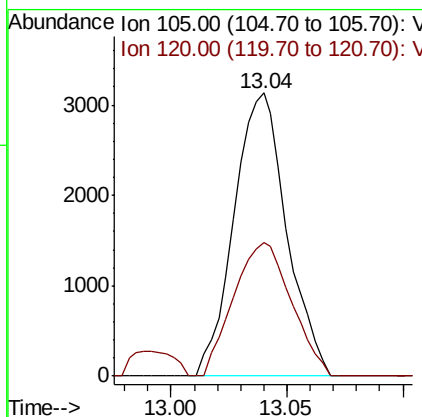
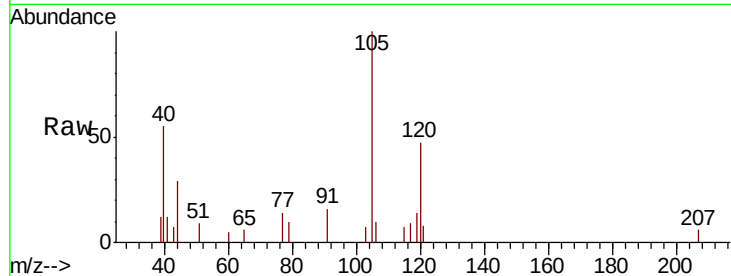




#84
 1,2,4-Trimethylbenzene
 Concen: 0.438 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

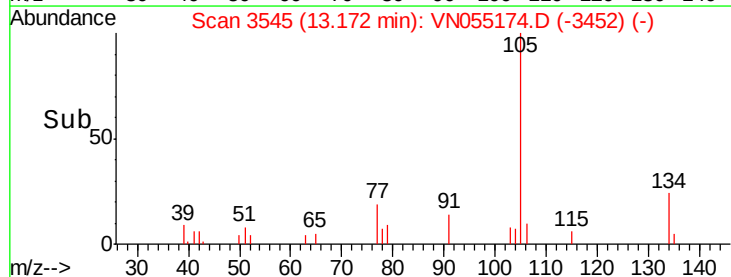
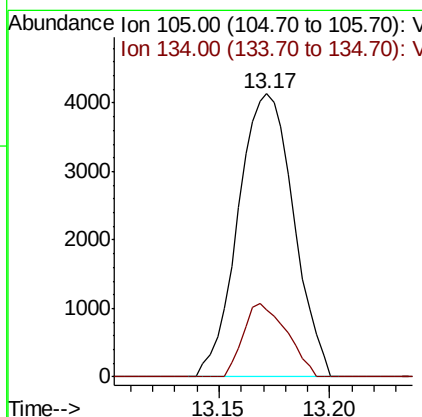
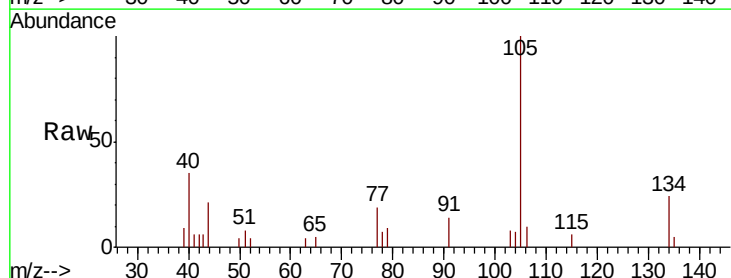
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

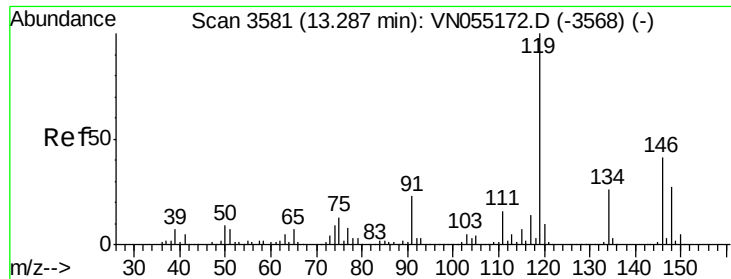
Tot Ion:105 Resp: 4944
 Ion Ratio Lower Upper
 105 100
 120 51.8 22.7 68.1



#85
 sec-Butylbenzene
 Concen: 0.533 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Tgt Ion:105 Resp: 7211
 Ion Ratio Lower Upper
 105 100
 134 20.4 10.0 30.0

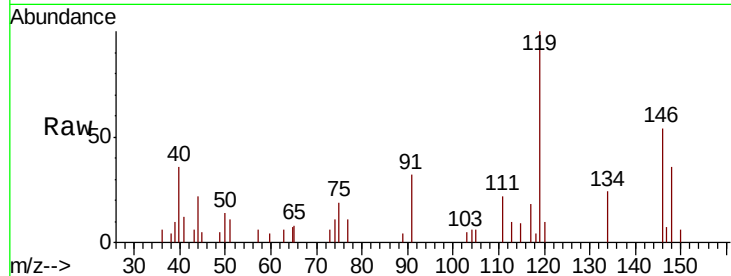




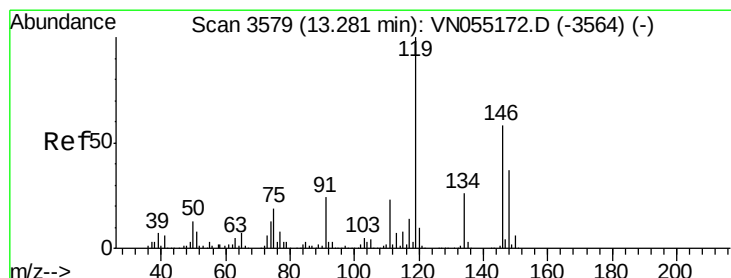
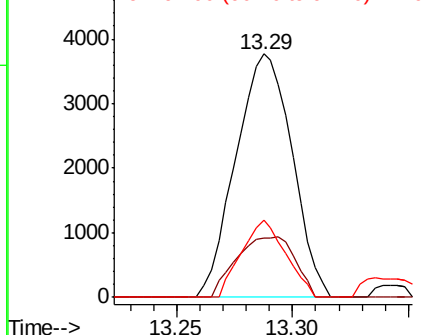
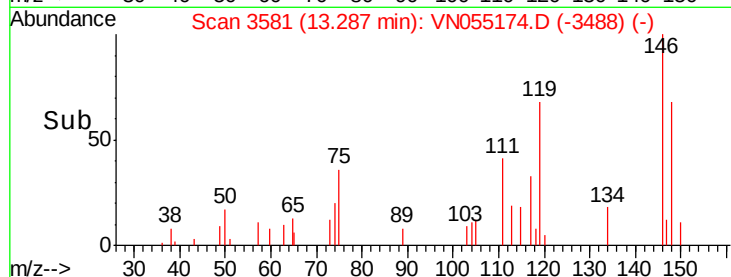
#86
 p-Isopropyltoluene
 Concen: 0.569 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion:119 Resp: 6353
 Ion Ratio Lower Upper
 119 100
 134 25.9 13.1 39.3
 91 24.9 11.8 35.3

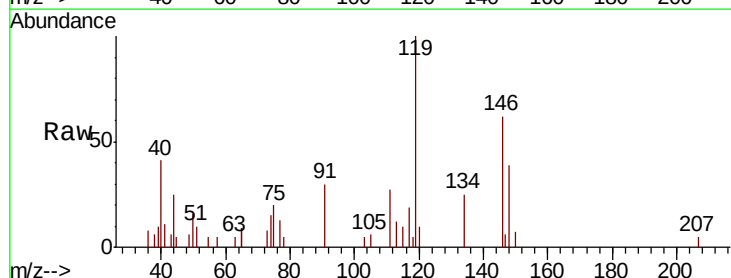


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

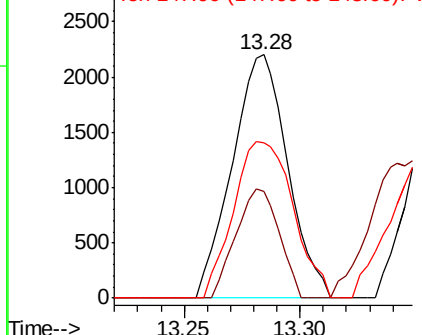
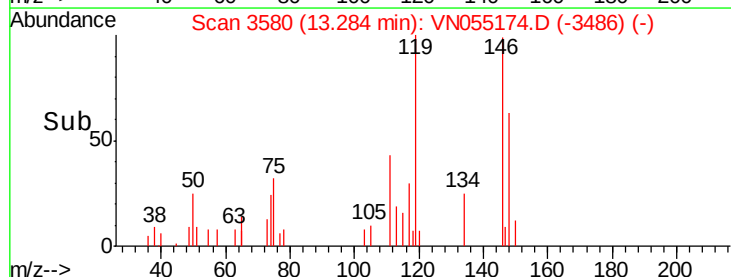


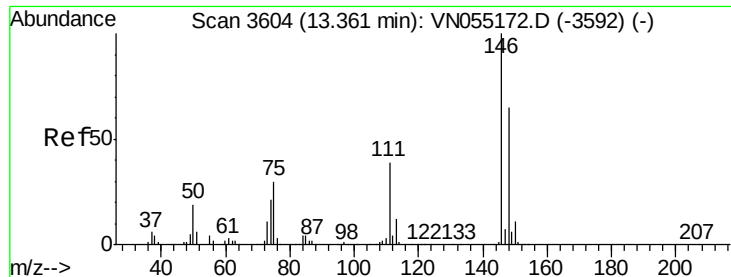
#87
 1,3-Dichlorobenzene
 Concen: 0.675 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Tgt Ion:146 Resp: 3660
 Ion Ratio Lower Upper
 146 100
 111 34.9 19.7 59.1
 148 69.2 32.0 96.0



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

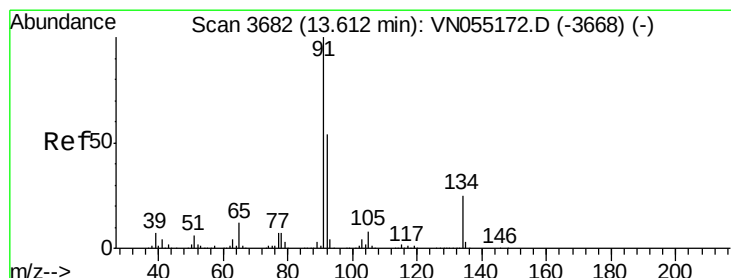
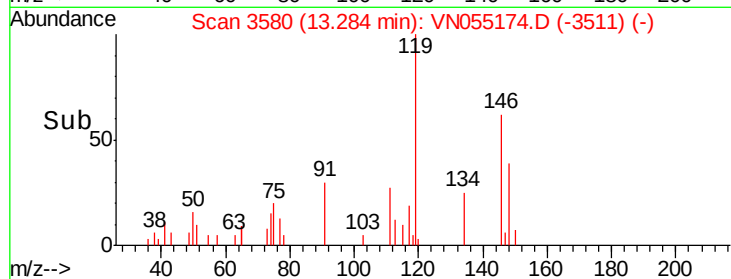
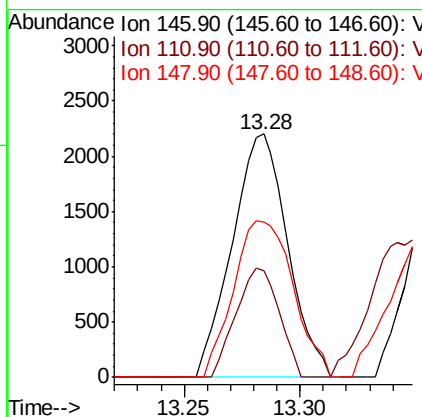
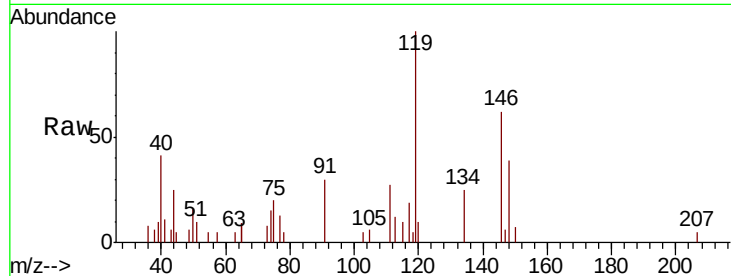




#88
 1,4-Dichlorobenzene
 Concen: 0.694 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

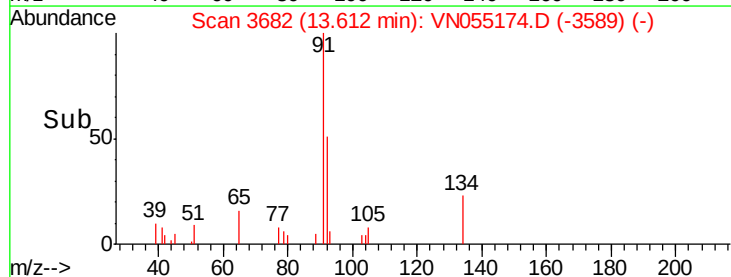
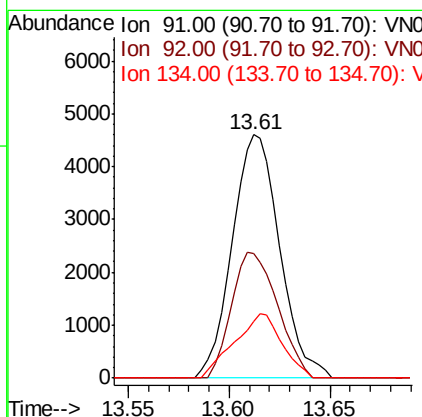
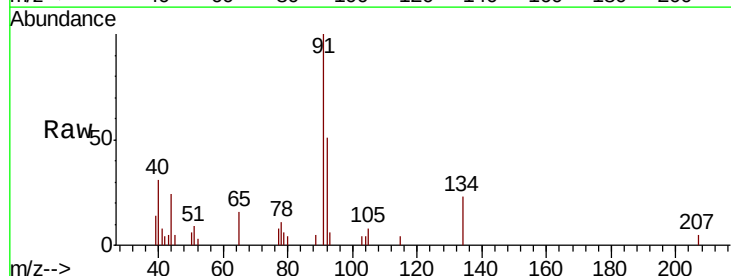
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

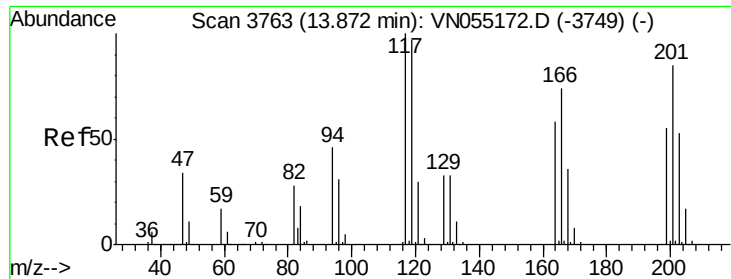
Tot Ion:146 Resp: 3660
 Ion Ratio Lower Upper
 146 100
 111 34.9 19.4 58.2
 148 69.2 32.9 98.6



#89
 n-Butylbenzene
 Concen: 0.915 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Tgt Ion: 91 Resp: 7568
 Ion Ratio Lower Upper
 91 100
 92 50.3 26.4 79.2
 134 26.5 12.8 38.4





#90

Hexachloroethane

Concen: 0.365 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampled :

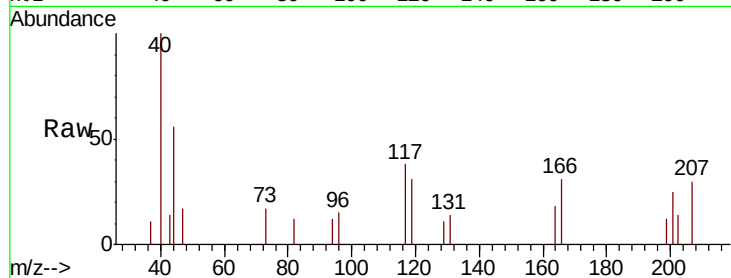
I.BLK

Tot Ion:117 Resp: 722

Ion Ratio Lower Upper

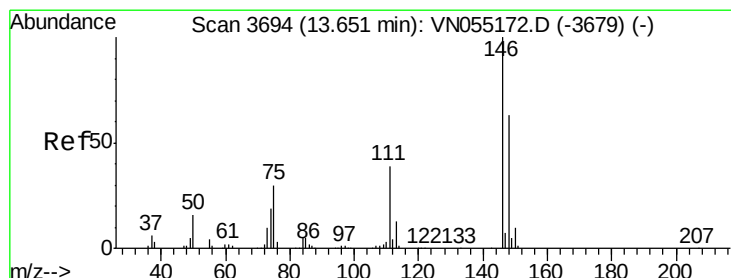
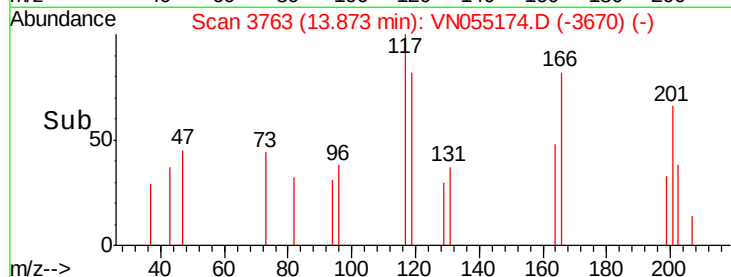
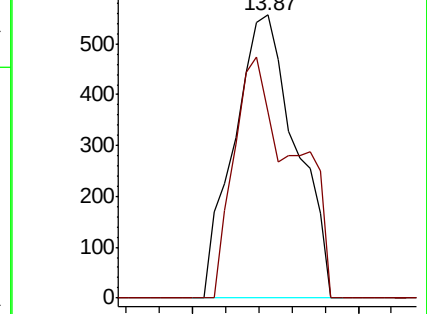
117 100

201 61.5 43.1 129.4



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.759 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

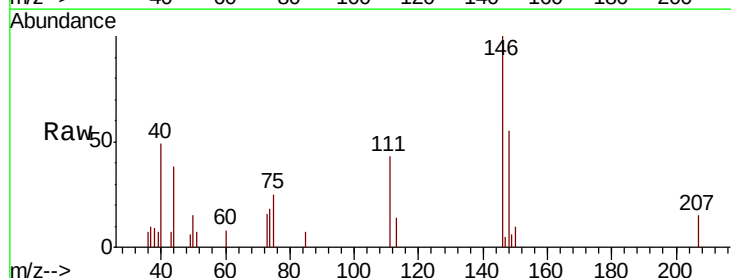
Tgt Ion:146 Resp: 4227

Ion Ratio Lower Upper

146 100

111 45.2 19.8 59.3

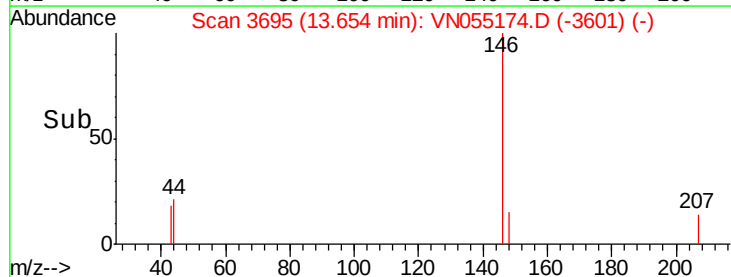
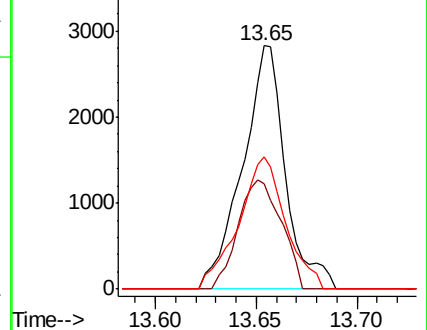
148 59.0 31.7 95.1

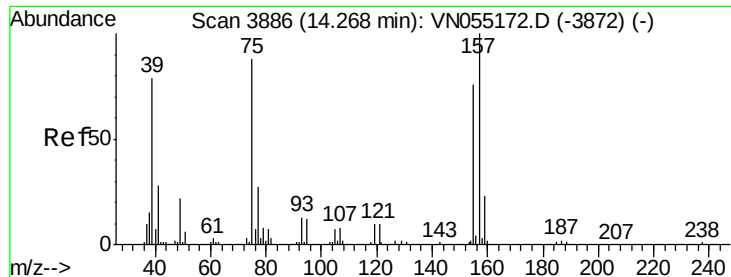


Abundance Ion 145.90 (145.60 to 146.60): V

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: 0.713 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

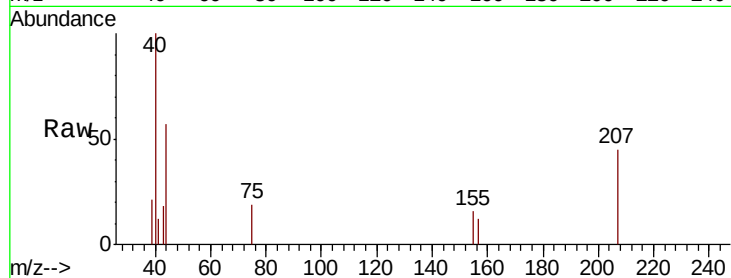
Tot Ion: 75 Resp: 346

Ion Ratio Lower Upper

75 100

155 88.2 43.0 129.0

157 74.3 55.7 167.1



Abundance Ion 74.90 (74.60 to 75.60): VN055174.D (-3793) (-)

Ion 154.80 (154.50 to 155.50): VN055174.D (-3793) (-)

Ion 156.80 (156.50 to 157.50): VN055174.D (-3793) (-)

14.27

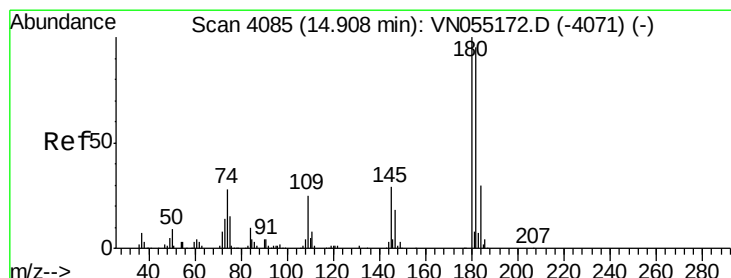
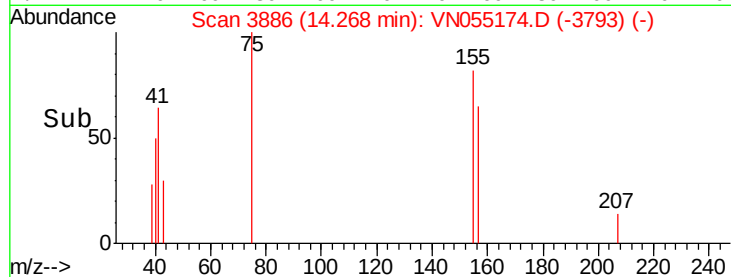
200

100

0

14.24 14.26 14.28 14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.863 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

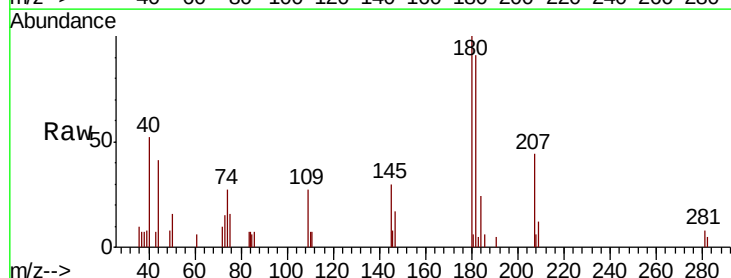
Tgt Ion: 180 Resp: 5287

Ion Ratio Lower Upper

180 100

182 90.1 47.8 143.4

145 26.8 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): VN055174.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN055174.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN055174.D (-3991) (-)

14.91

4000

3000

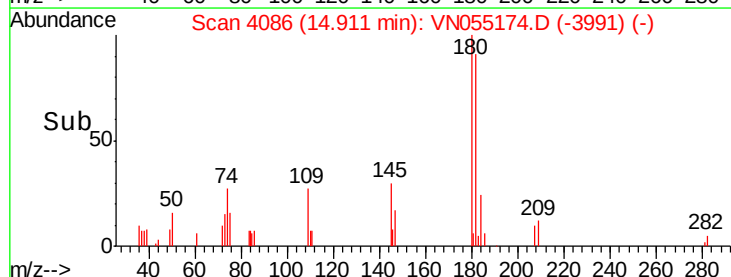
2000

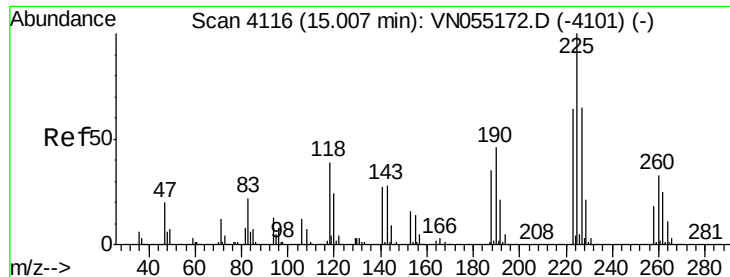
1000

0

14.85 14.90 14.95

Time-->





#94

Hexachlorobutadiene

Concen: 0.330 ug/l

RT: 15.00 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

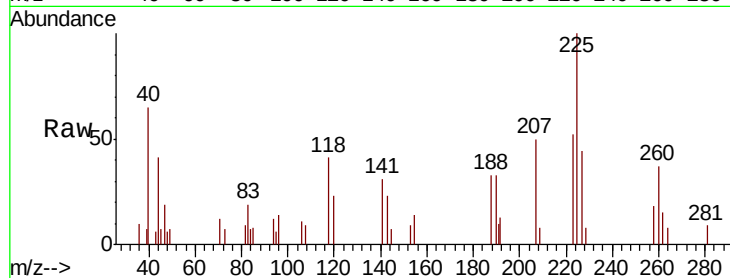
Tot Ion:225 Resp: 4269

Ion Ratio Lower Upper

225 100

223 68.2 32.2 96.6

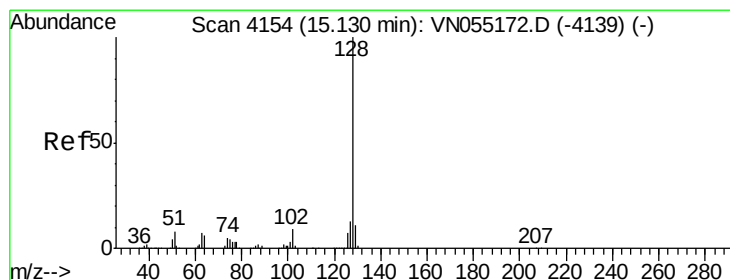
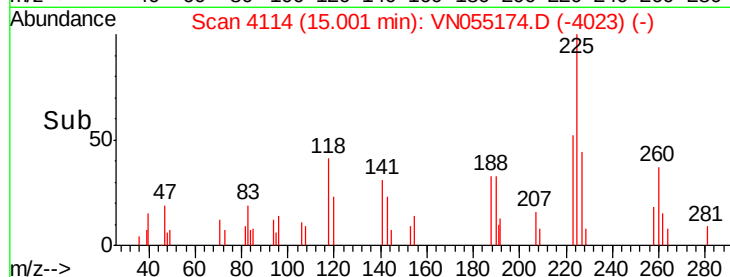
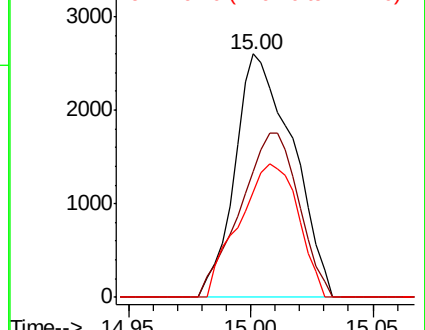
227 56.1 32.6 98.0



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: 6.352 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055174.D

Acq: 22 Apr 2019 11:28

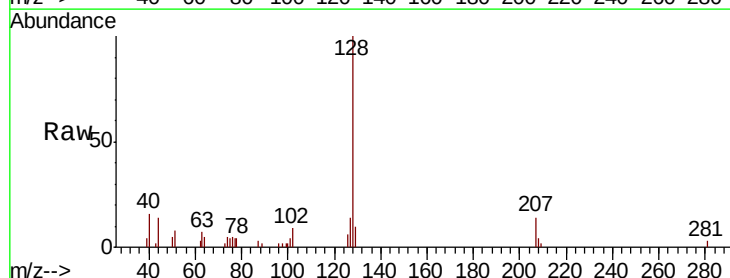
Tgt Ion:128 Resp: 16329

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

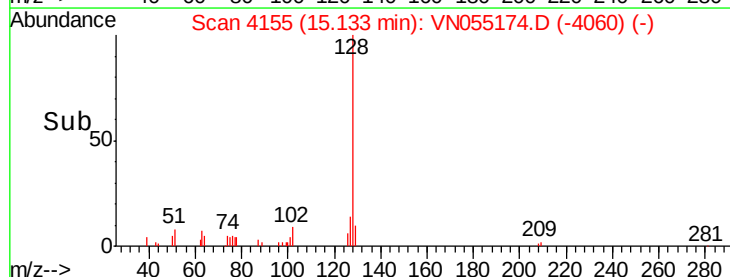
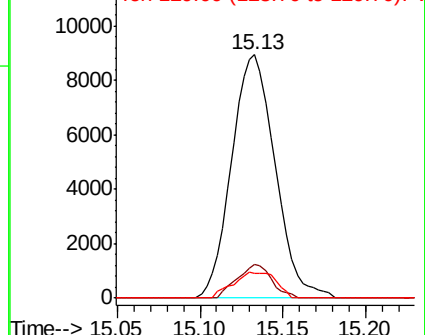
129 10.3 8.8 13.2

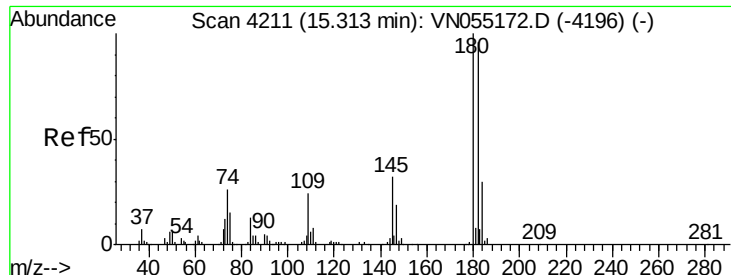


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 4.518 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055174.D
 Acq: 22 Apr 2019 11:28

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.9	47.2	141.6
145	27.8	15.4	46.1

