

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090319\
 Data File : VN057668.D
 Acq On : 3 Sep 2019 17:50
 Operator : JC/SP
 Sample : VN0903WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0903WBL01

Quant Time: Sep 04 02:12:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	55347	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	339662	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	268984	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	182742	31.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.53%
60) 4-Bromofluorobenzene	12.40	95	108079	23.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.40%
63) Toluene-d8	10.08	98	414771	32.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.73%

Target Compounds

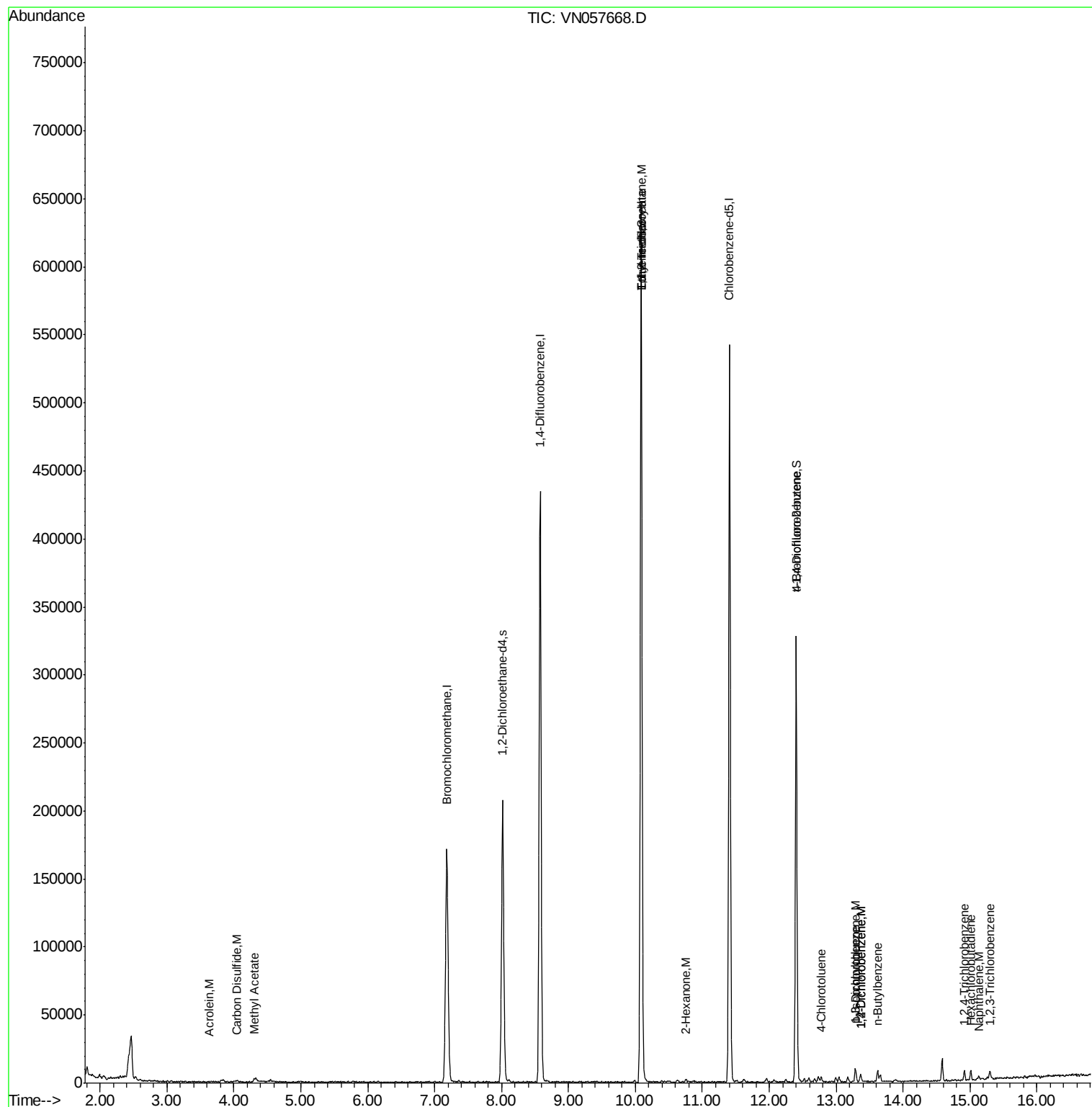
					Qvalue	
12) Methyl Acetate	4.31	43	1038	0.223	ug/l #	76
13) Acrolein	3.63	56	75	0.284	ug/l #	80
16) Carbon Disulfide	4.04	76	2220	0.283	ug/l #	76
50) 1,1,2-Trichloroethane	10.09	97	14227	3.820	ug/l #	1
51) Ethyl methacrylate	10.09	69	1644	0.271	ug/l	80
59) 2-Hexanone	10.75	43	1895	0.563	ug/l #	79
77) t-1,4-Dichloro-2-butene	12.40	75	63343	51.860	ug/l #	1
78) 4-Chlorotoluene	12.78	91	2238	0.210	ug/l	84
82) p-Isopropyltoluene	13.29	119	3088	0.245	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	1936	0.377	ug/l	91
84) 1,4-Dichlorobenzene	13.37	146	2446	0.505	ug/l	85
85) n-Butylbenzene	13.62	91	4987	0.450	ug/l	93
87) 1,2-Dichlorobenzene	13.37	146	2446	0.517	ug/l	83
89) 1,2,4-Trichlorobenzene	14.91	180	2035	1.240	ug/l	98
90) Hexachlorobutadiene	15.00	225	764	0.420	ug/l	74
91) Naphthalene	15.13	128	2663	0.625	ug/l #	84
92) 1,2,3-Trichlorobenzene	15.30	180	1665	1.045	ug/l	92

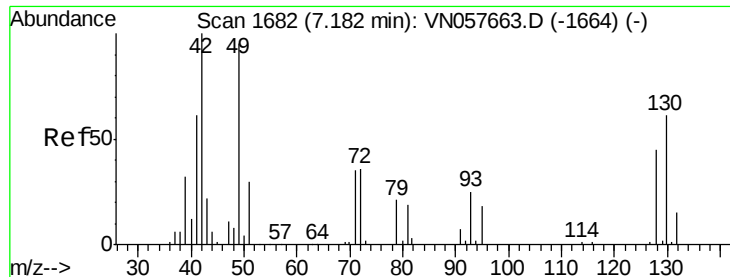
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 04 02:08:50 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampled :

VN0903WBL01

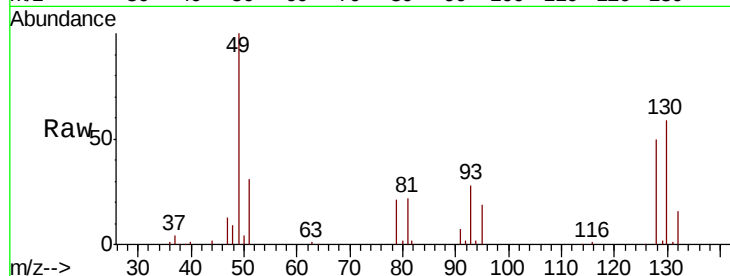
Tgt Ion:128 Resp: 55347

Ion Ratio Lower Upper

128 100

49 210.0 0.0 544.5

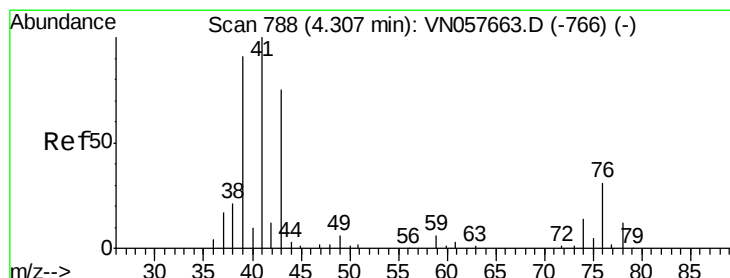
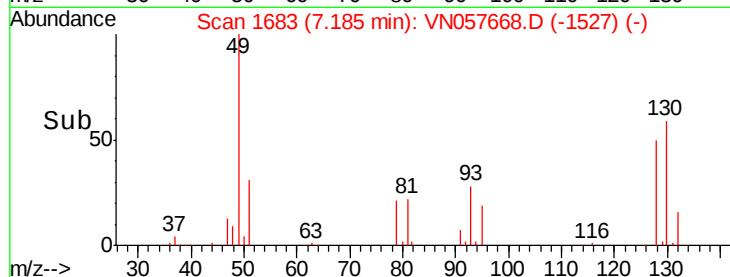
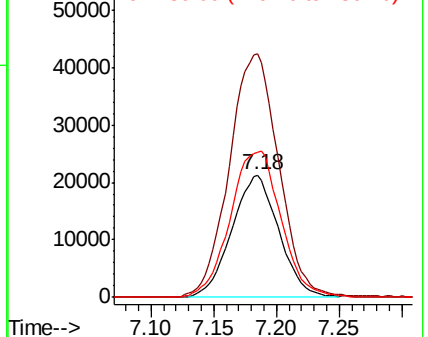
130 129.4 0.0 324.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.223 ug/l

RT: 4.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN057668.D

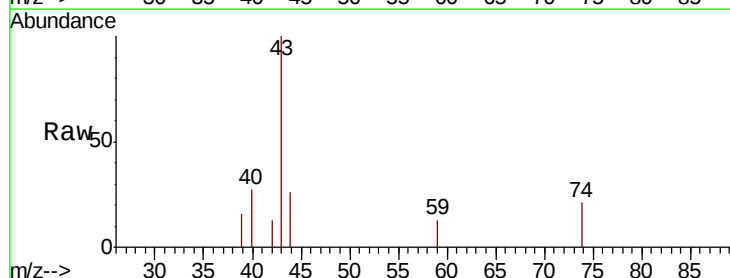
Acq: 3 Sep 2019 17:50

Tgt Ion: 43 Resp: 1038

Ion Ratio Lower Upper

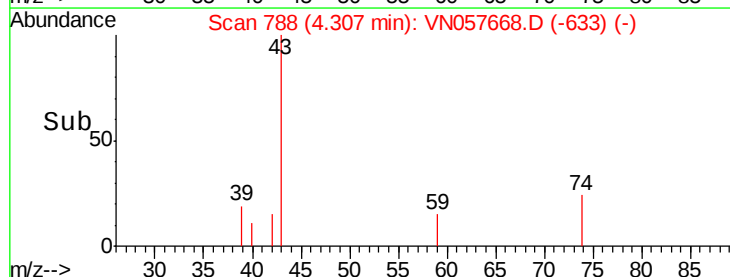
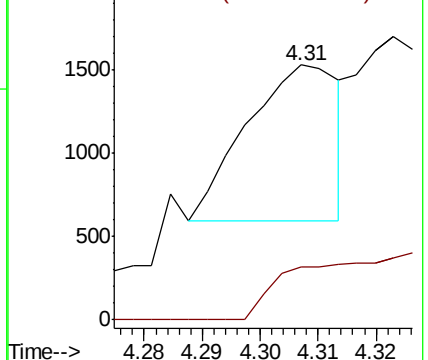
43 100

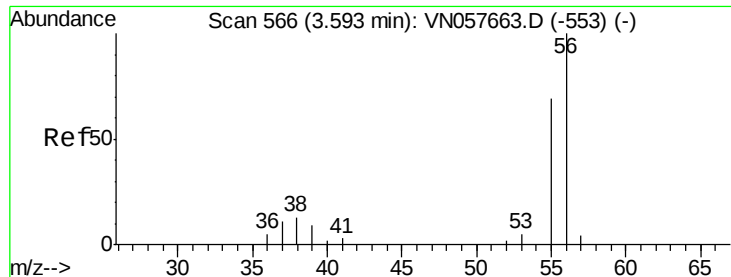
74 28.8 14.6 22.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.284 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.03 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

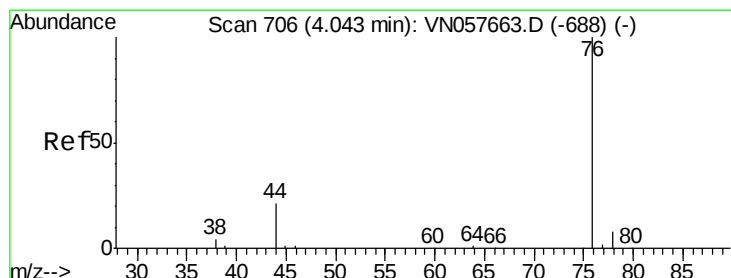
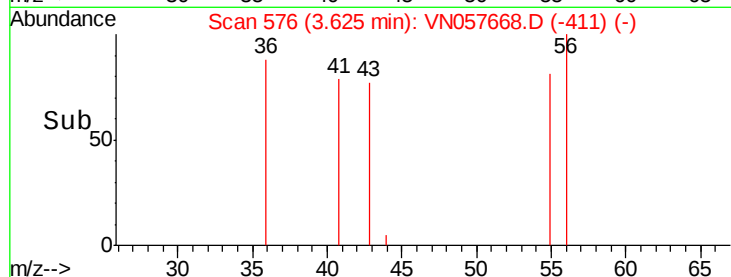
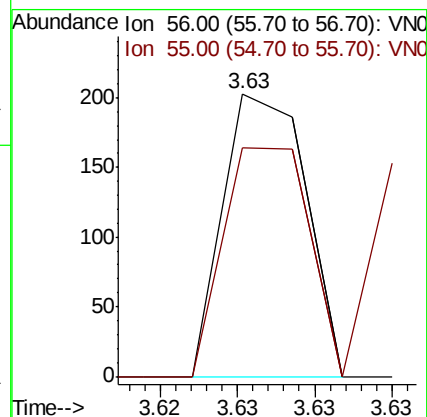
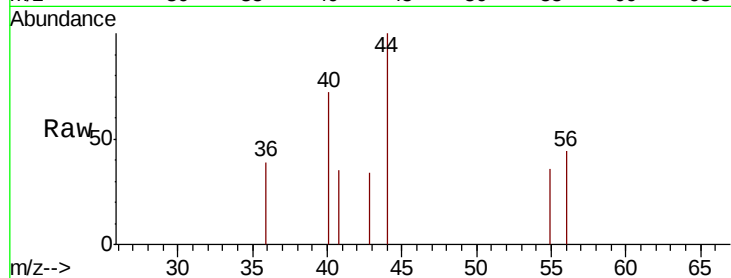
VN0903WBL01

Tgt Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

55 84.0 54.2 81.4#



#16

Carbon Disulfide

Concen: 0.283 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN057668.D

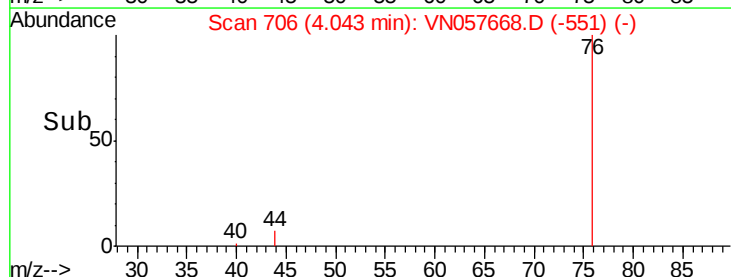
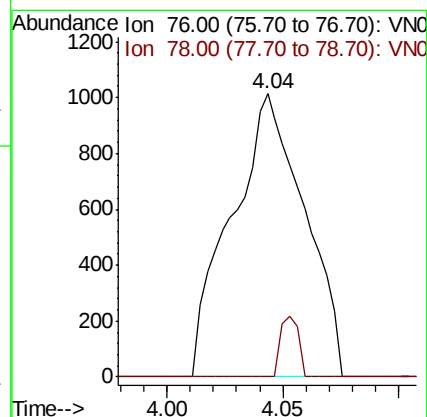
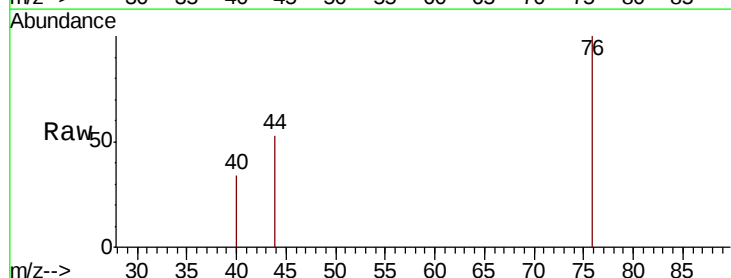
Acq: 3 Sep 2019 17:50

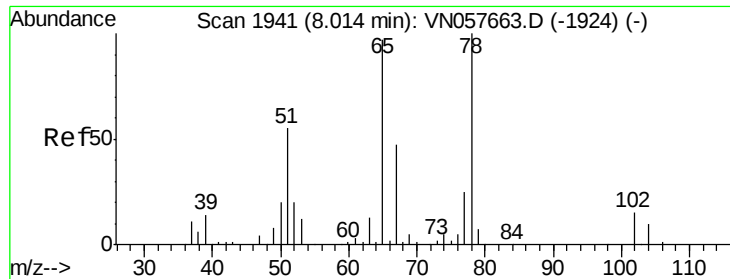
Tgt Ion: 76 Resp: 2220

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#





#27

1,2-Dichloroethane-d4

Concen: 31.060 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

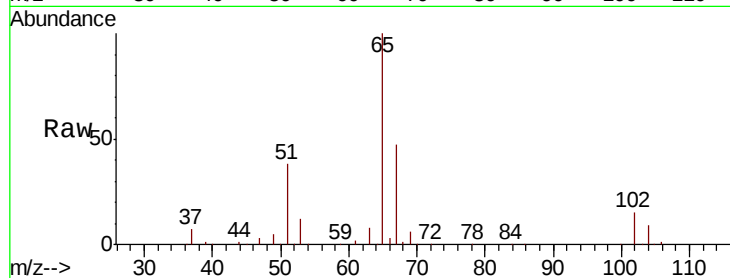
VN0903WBL01

Tgt Ion: 65 Resp: 182742

Ion Ratio Lower Upper

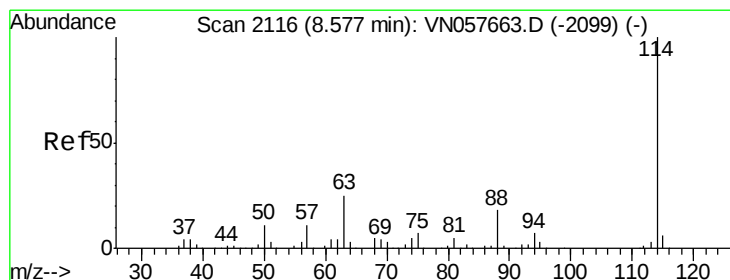
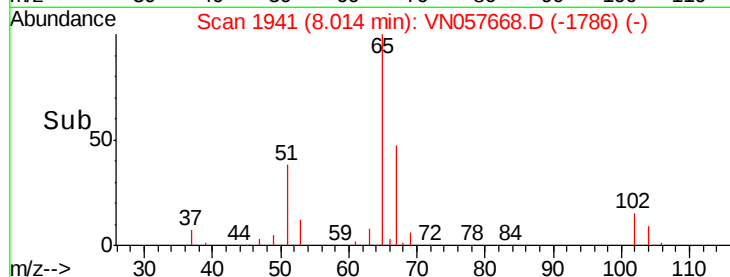
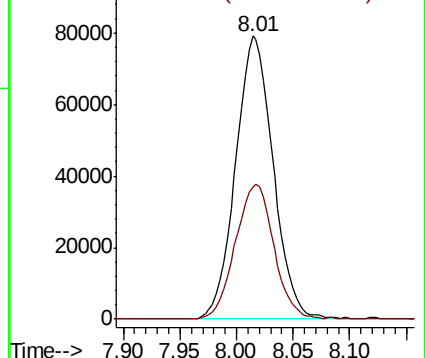
65 100

67 48.9 38.6 57.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. -0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

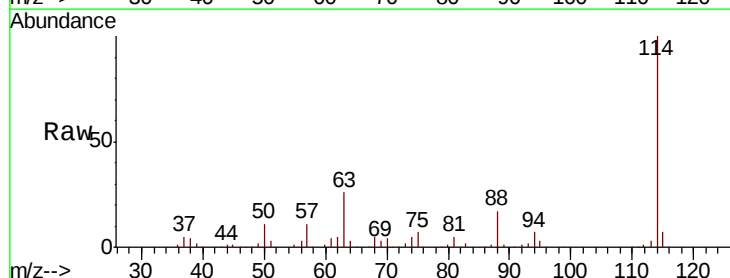
Tgt Ion: 114 Resp: 339662

Ion Ratio Lower Upper

114 100

63 26.2 20.6 30.8

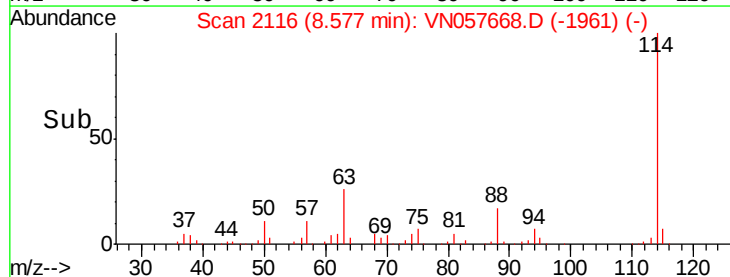
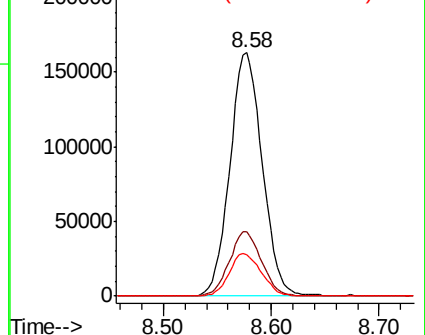
88 17.4 14.3 21.5

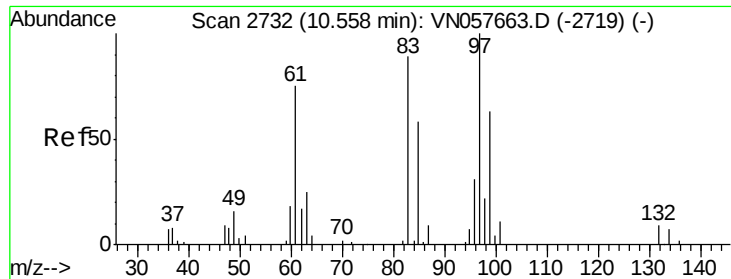


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0





#50

1,1,2-Trichloroethane

Concen: 3.820 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.47 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN0903WBL01

Tgt Ion: 97 Resp: 14227

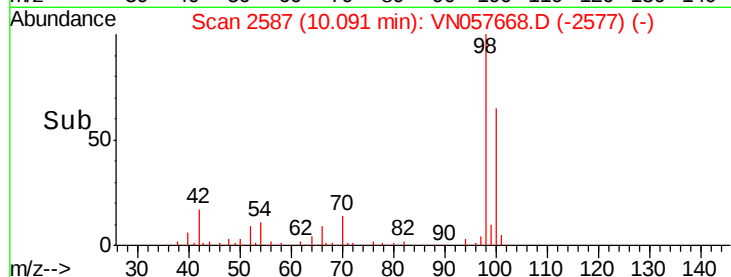
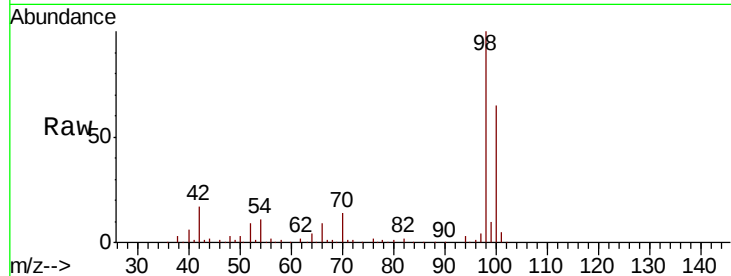
Ion Ratio Lower Upper

97 100

83 0.0 71.4 107.2#

85 0.0 46.0 69.0#

99 259.9 50.2 75.2#

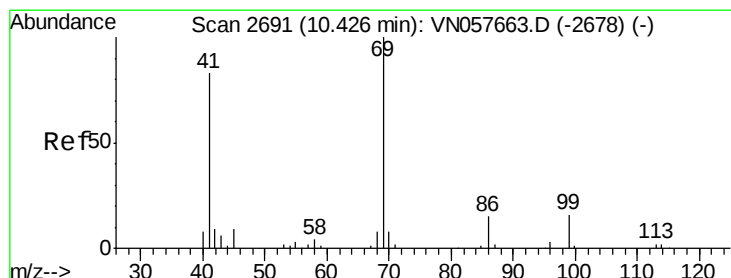
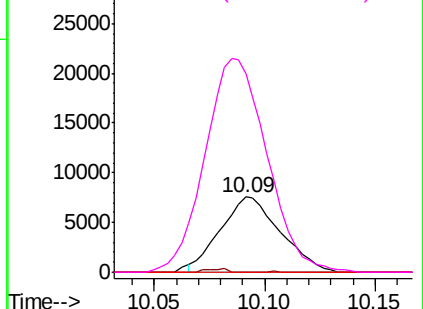


Abundance Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO



#51

Ethyl methacrylate

Concen: 0.271 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.34 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

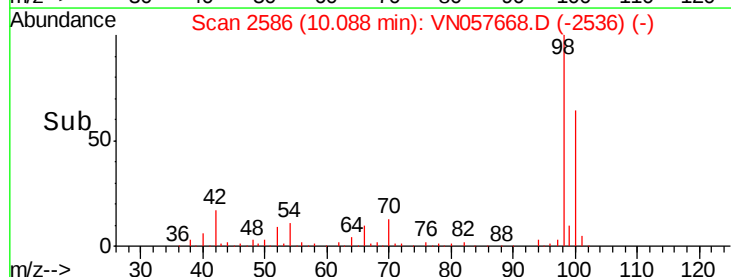
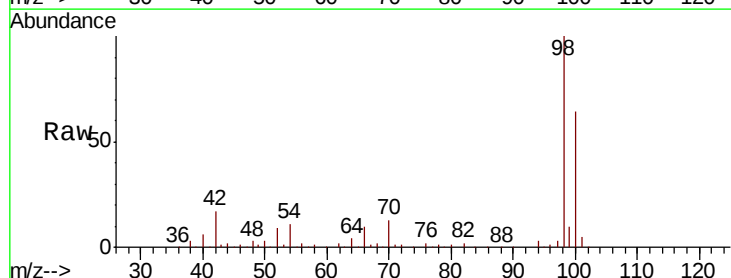
Tgt Ion: 69 Resp: 1644

Ion Ratio Lower Upper

69 100

41 109.1 41.5 124.5

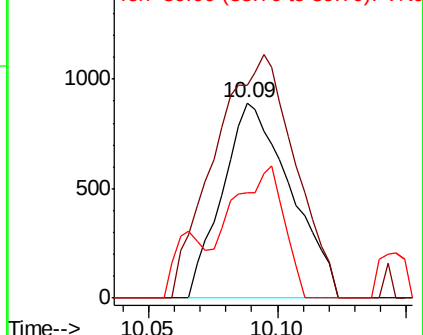
39 54.1 29.6 88.9

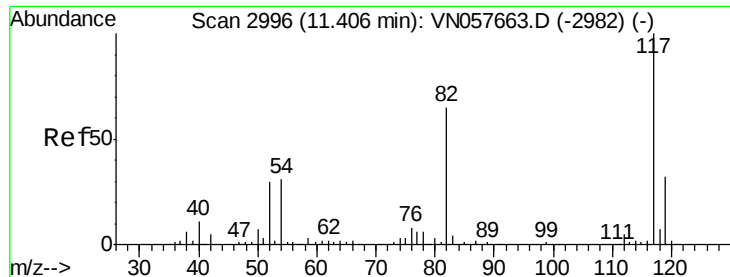


Abundance Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN0903WBL01

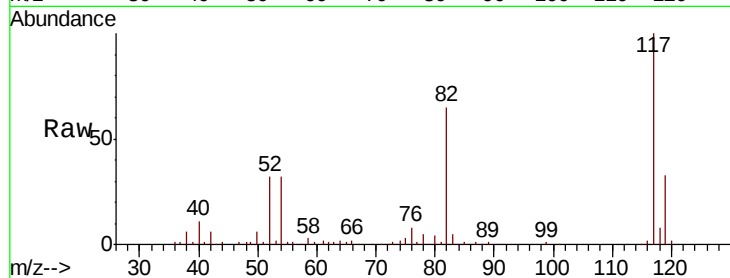
Tgt Ion: 117 Resp: 268984

Ion Ratio Lower Upper

117 100

82 63.4 51.2 76.8

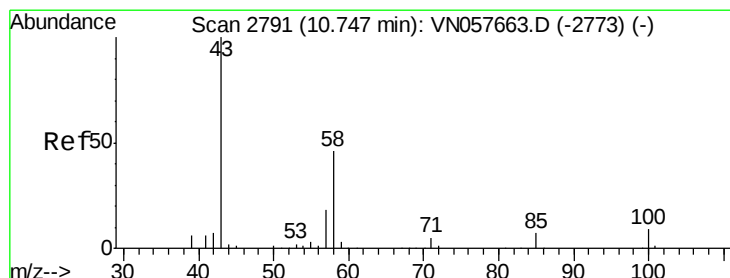
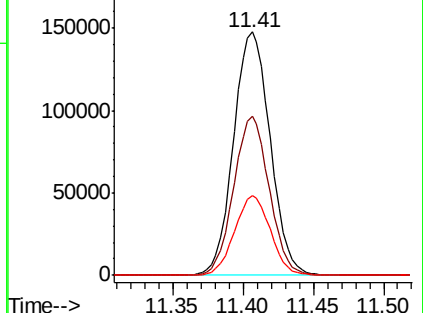
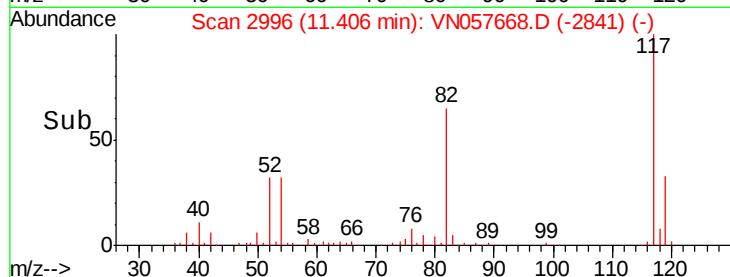
119 32.1 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN

Ion 119.00 (118.70 to 119.70): V



#59

2-Hexanone

Concen: 0.563 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

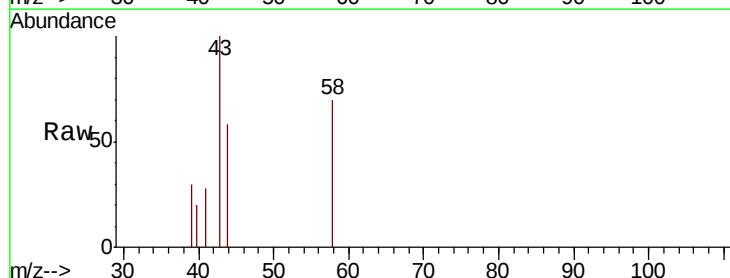
Tgt Ion: 43 Resp: 1895

Ion Ratio Lower Upper

43 100

58 36.4 36.1 54.1

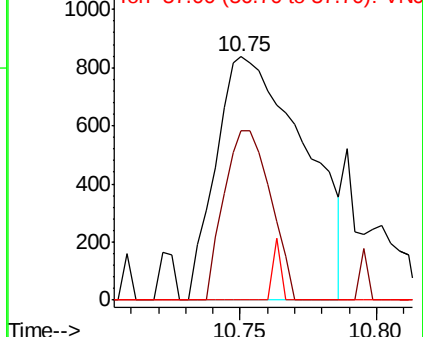
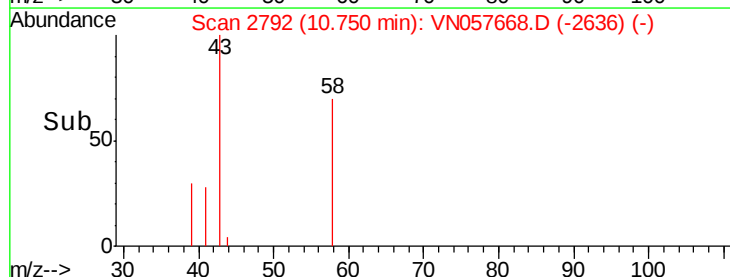
57 0.0 14.1 21.1#

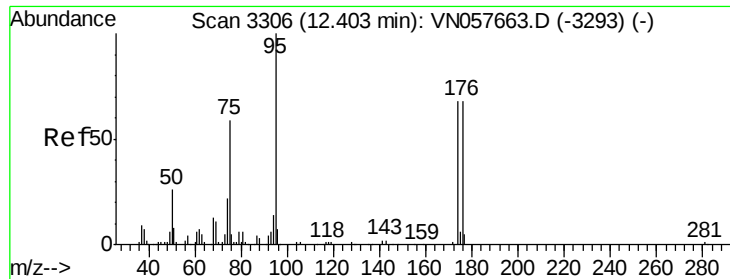


Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

Ion 57.00 (56.70 to 57.70): VN

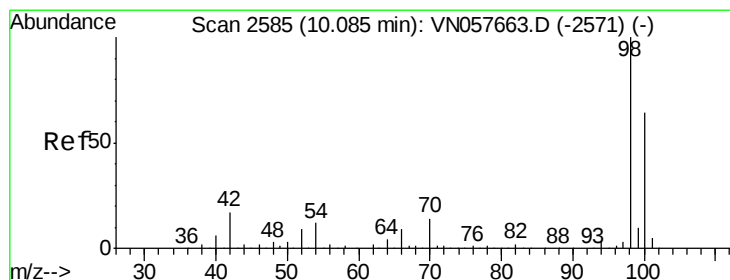
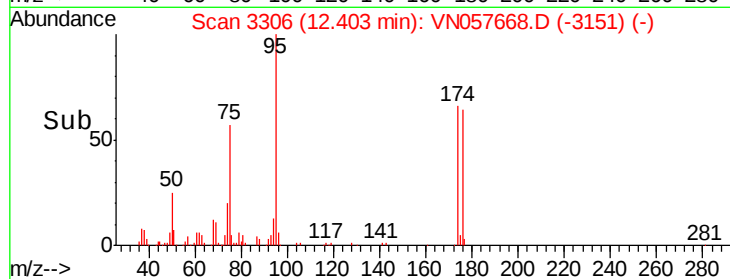
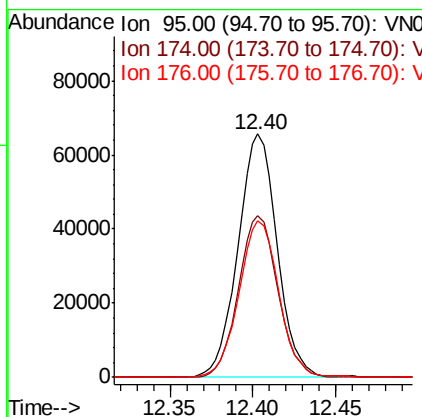
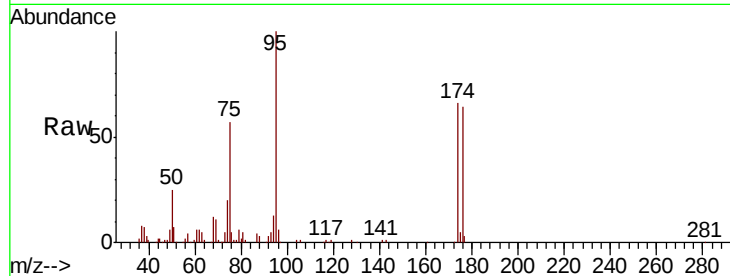




#60
 4-Bromofluorobenzene
 Concen: 23.519 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.00 min
 Lab File: VN057668.D
 Acq: 3 Sep 2019 17:50

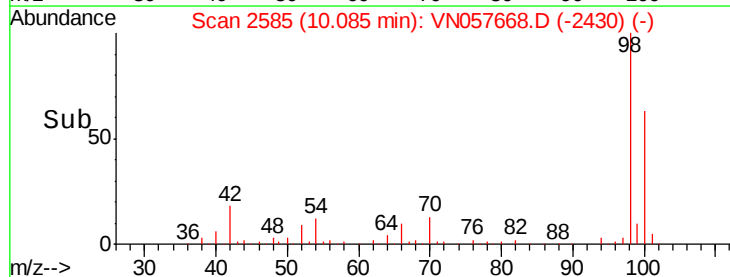
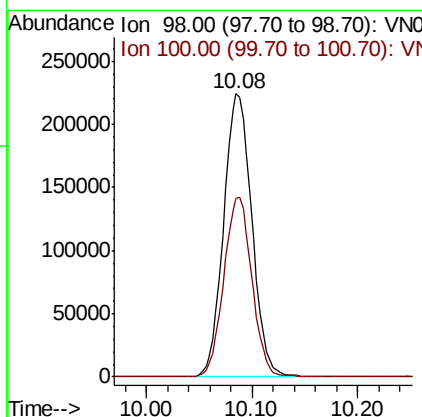
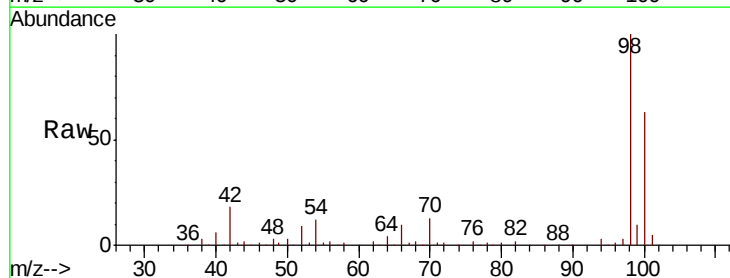
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0903WBL01

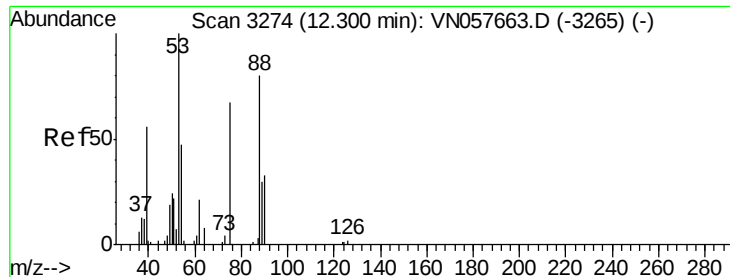
Tgt Ion: 95 Resp: 108079
 Ion Ratio Lower Upper
 95 100
 174 66.7 55.0 82.6
 176 65.2 53.7 80.5



#63
 Toluene-d8
 Concen: 32.023 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN057668.D
 Acq: 3 Sep 2019 17:50

Tgt Ion: 98 Resp: 414771
 Ion Ratio Lower Upper
 98 100
 100 63.2 51.0 76.6

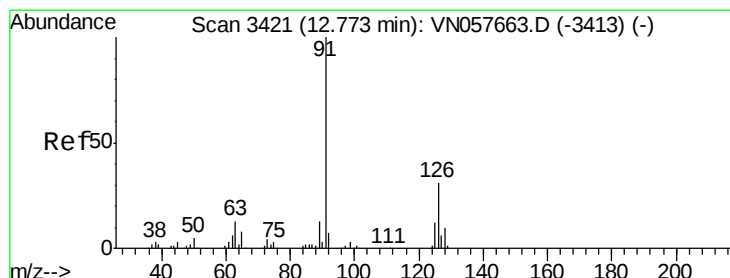
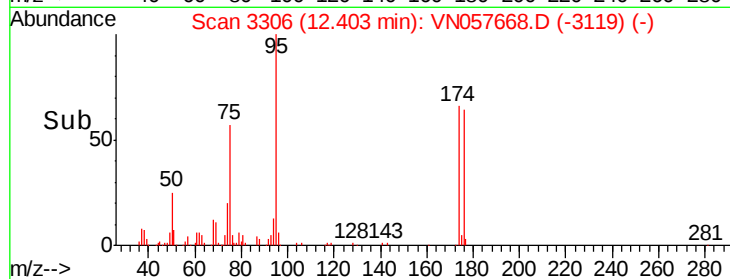
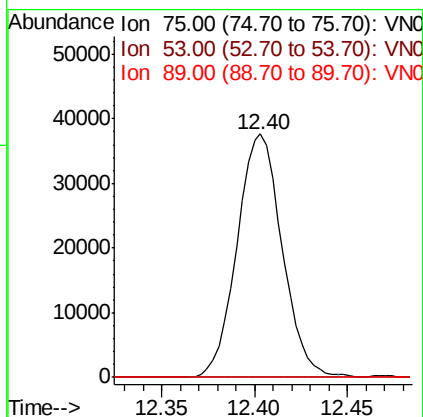
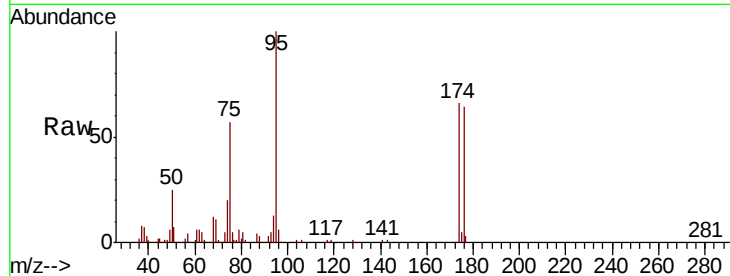




#77
t-1,4-Dichloro-2-butene
Concen: 51.860 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057668.D
Acq: 3 Sep 2019 17:50

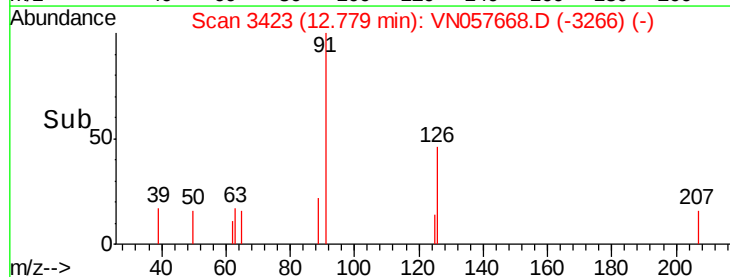
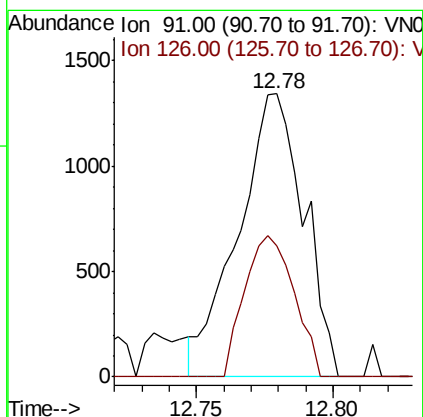
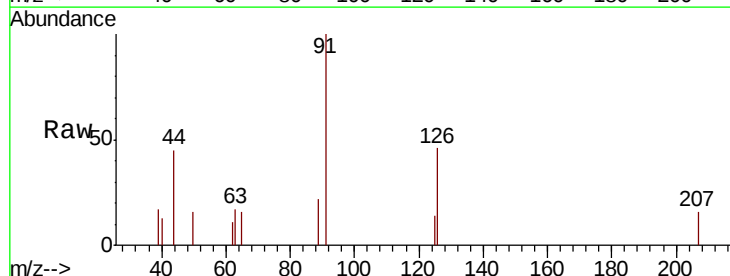
Instrument :
MSVOA_N
ClientSampleId :
VN0903WBL01

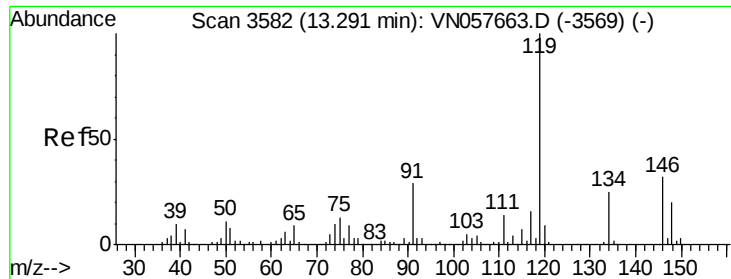
Tgt Ion: 75 Resp: 63343
Ion Ratio Lower Upper
75 100
53 0.0 74.2 222.6#
89 0.0 23.3 69.9#



#78
4-Chlorotoluene
Concen: 0.210 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.01 min
Lab File: VN057668.D
Acq: 3 Sep 2019 17:50

Tgt Ion: 91 Resp: 2238
Ion Ratio Lower Upper
91 100
126 37.7 0.0 57.8

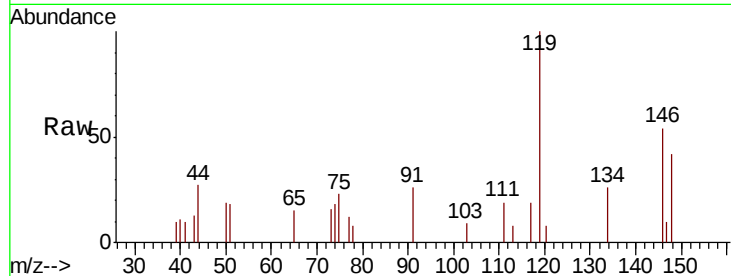




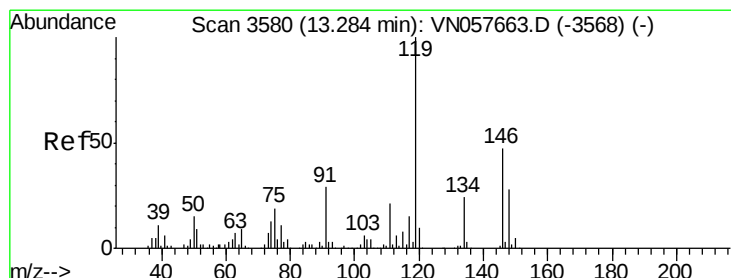
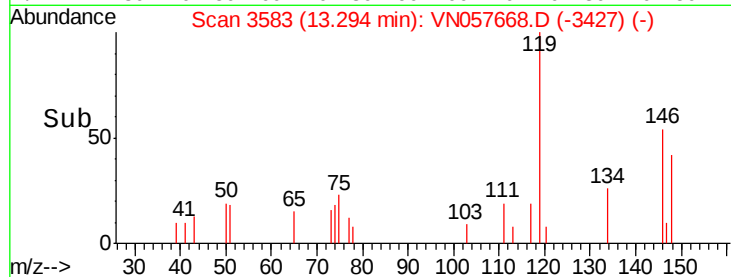
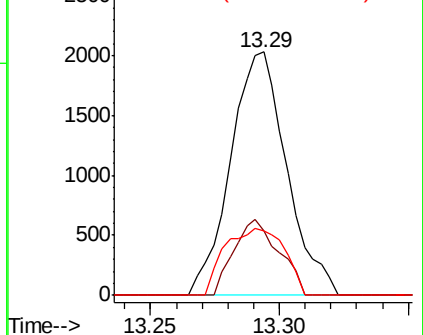
#82
p-Isopropyltoluene
Concen: 0.245 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. 0.00 min
Lab File: VN057668.D
Acq: 3 Sep 2019 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN0903WBL01

Tgt Ion:119 Resp: 3088
Ion Ratio Lower Upper
119 100
134 24.9 0.0 49.6
91 29.1 0.0 56.2

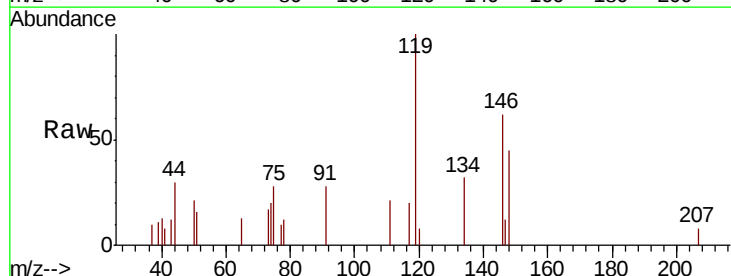


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

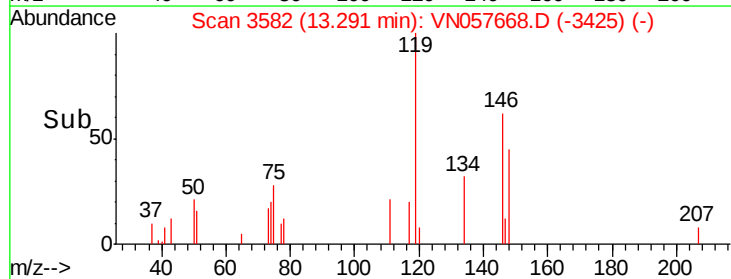
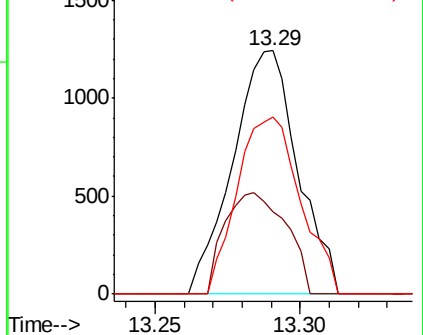


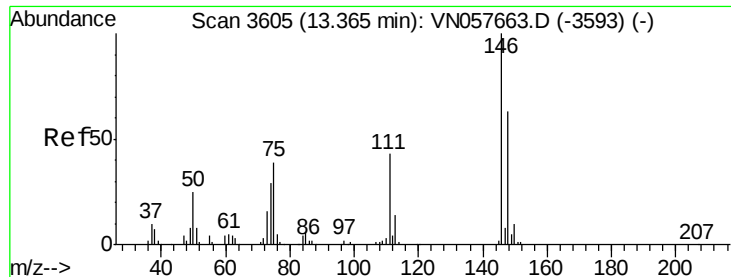
#83
1,3-Dichlorobenzene
Concen: 0.377 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.01 min
Lab File: VN057668.D
Acq: 3 Sep 2019 17:50

Tgt Ion:146 Resp: 1936
Ion Ratio Lower Upper
146 100
111 39.3 22.1 66.3
148 70.4 31.3 93.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#84

1,4-Dichlorobenzene

Concen: 0.505 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN0903WBL01

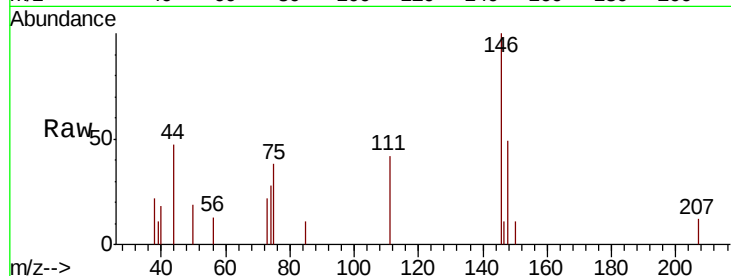
Tgt Ion:146 Resp: 2446

Ion Ratio Lower Upper

146 100

111 38.6 21.3 63.9

148 46.0 31.0 93.0

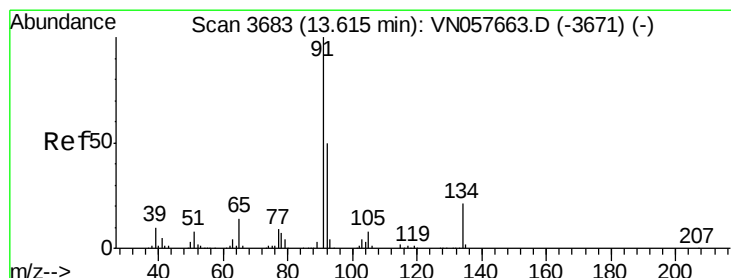
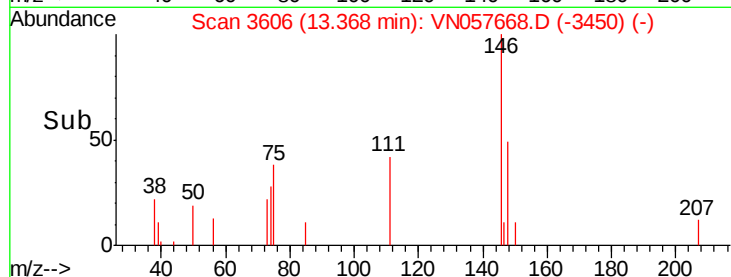
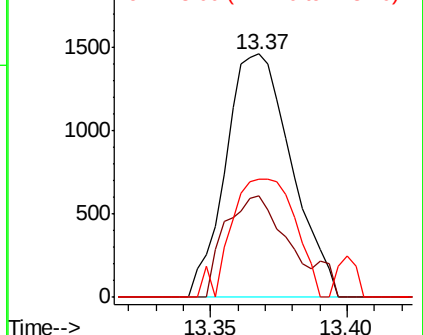


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 0.450 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.01 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

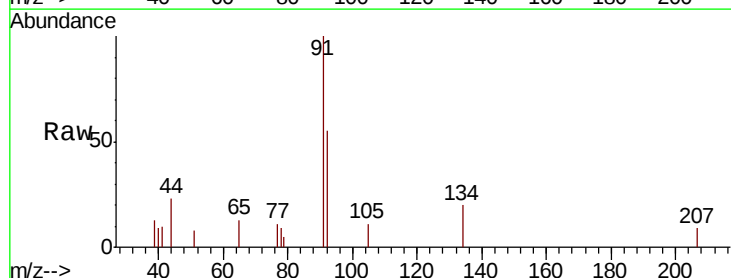
Tgt Ion: 91 Resp: 4987

Ion Ratio Lower Upper

91 100

92 55.2 0.0 100.2

134 18.3 0.0 43.8

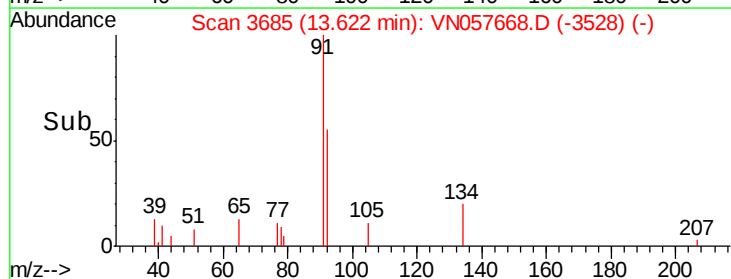
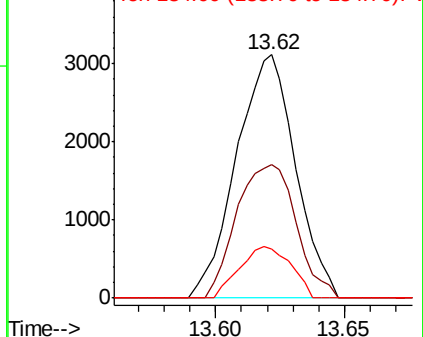


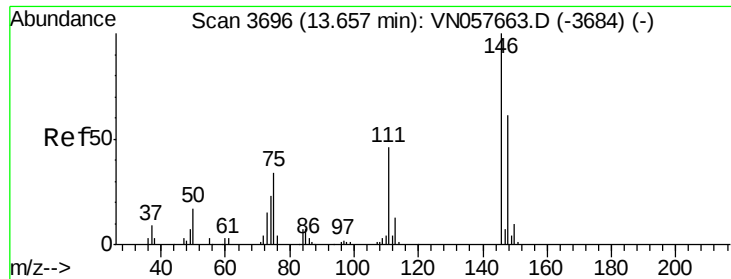
Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

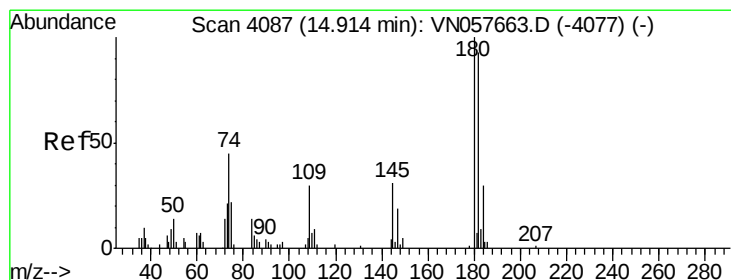
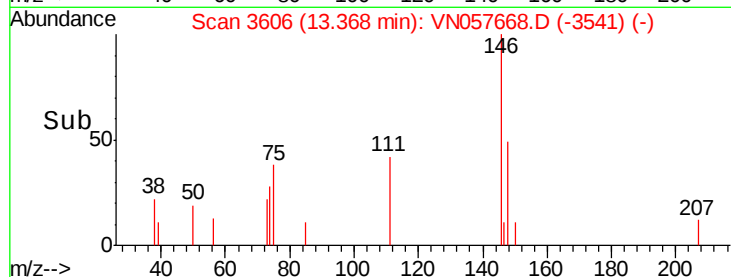
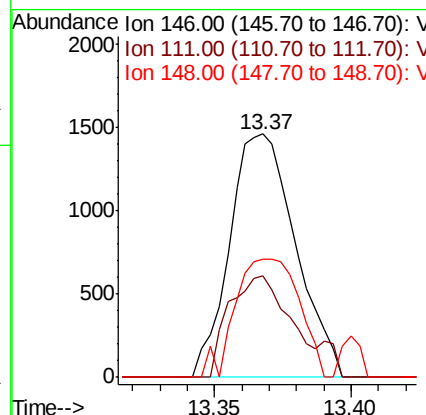
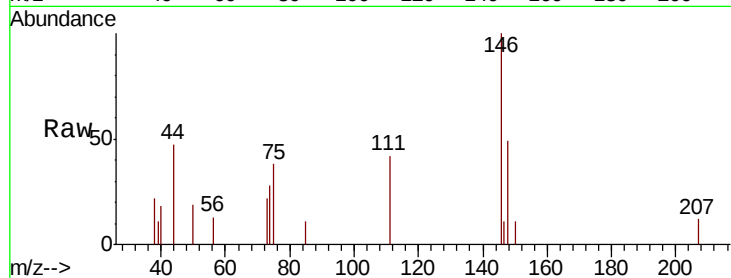




#87
 1,2-Dichlorobenzene
 Concen: 0.517 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.29 min
 Lab File: VN057668.D
 Acq: 3 Sep 2019 17:50

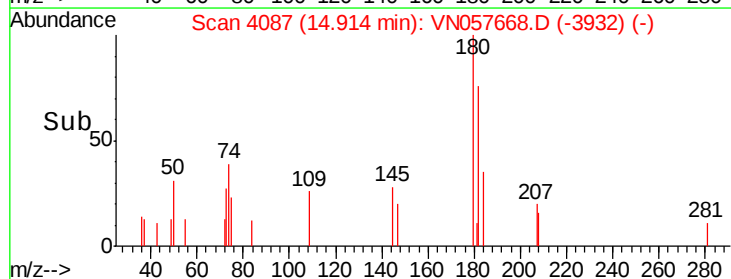
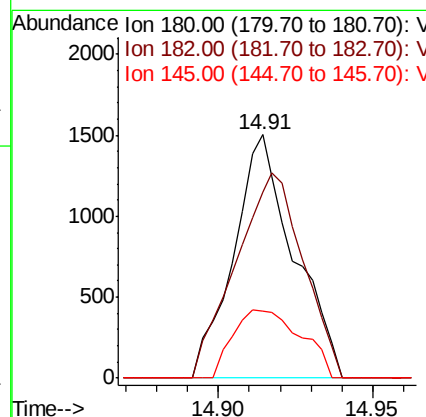
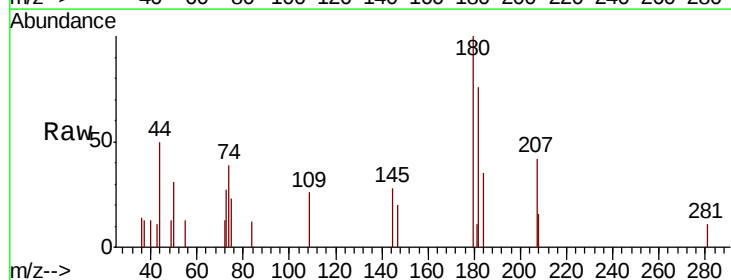
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0903WBL01

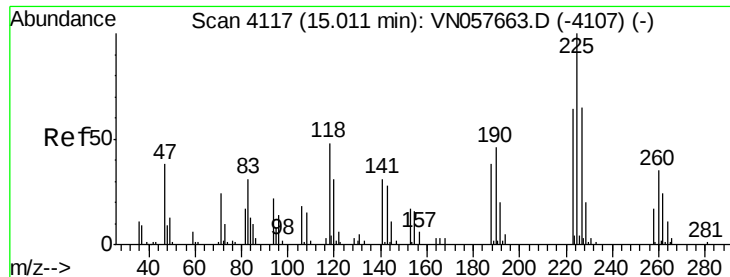
Tgt Ion:146 Resp: 2446
 Ion Ratio Lower Upper
 146 100
 111 38.6 22.6 67.7
 148 46.0 31.3 93.9



#89
 1,2,4-Trichlorobenzene
 Concen: 1.240 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN057668.D
 Acq: 3 Sep 2019 17:50

Tgt Ion:180 Resp: 2035
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.4 116.2
 145 31.6 25.1 37.7





#90

Hexachlorobutadiene

Concen: 0.420 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

Instrument :

MSVOA_N

ClientSampled :

VN0903WBL01

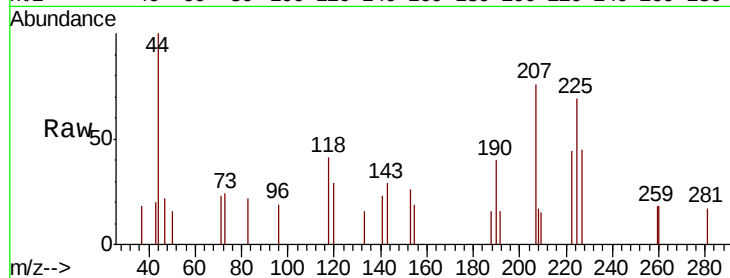
Tgt Ion:225 Resp: 764

Ion Ratio Lower Upper

225 100

223 46.3 0.0 131.0

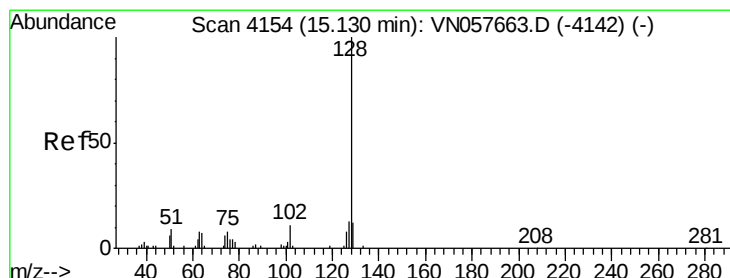
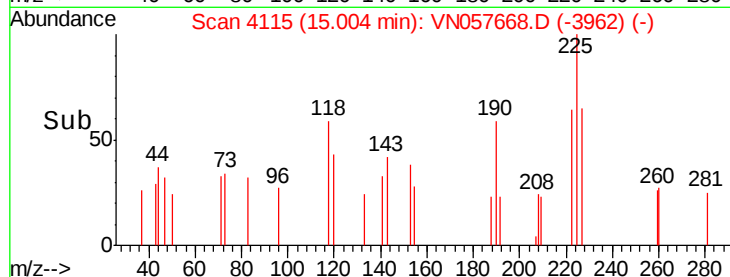
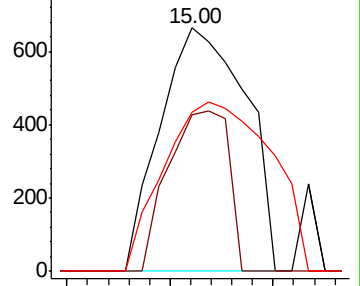
227 86.6 0.0 128.6



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.625 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057668.D

Acq: 3 Sep 2019 17:50

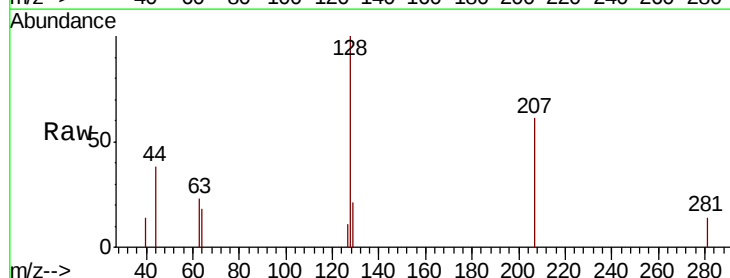
Tgt Ion:128 Resp: 2663

Ion Ratio Lower Upper

128 100

127 4.3 10.3 15.5#

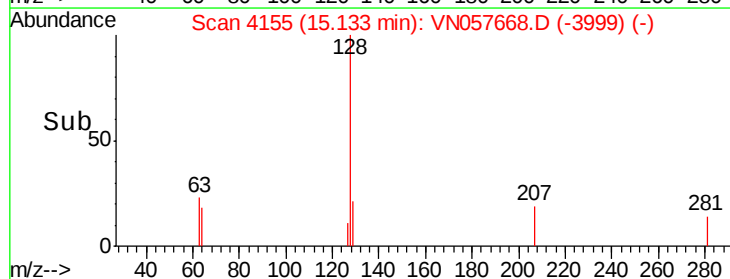
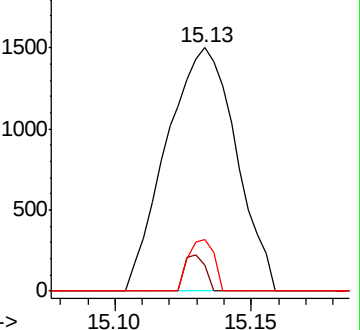
129 7.7 9.1 13.7#

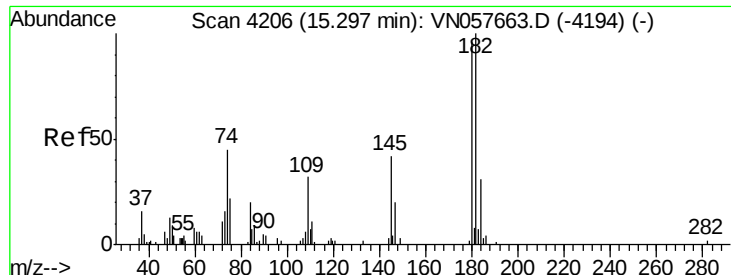


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

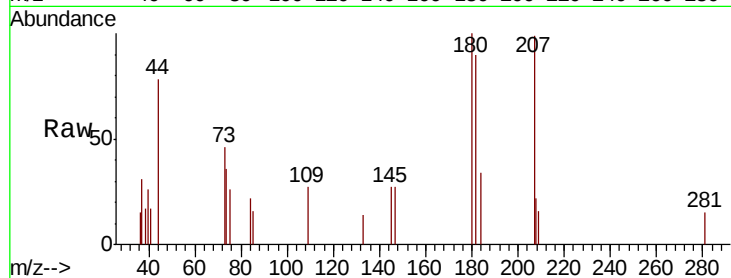




#92
 1,2,3-Trichlorobenzene
 Concen: 1.045 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN057668.D
 Acq: 3 Sep 2019 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0903WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	0.0	199.4
145	18.6	0.0	73.2



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

