

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091818\
 Data File : VN051287.D
 Acq On : 18 Sep 2018 9:18
 Operator : MD\SY
 Sample : VN0918WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 14:26:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	122752	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	645096	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	519234	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	223891	28.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.27%
60) 4-Bromofluorobenzene	12.40	95	157593	20.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	68.03%
63) Toluene-d8	10.09	98	753414	31.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.73%

Target Compounds

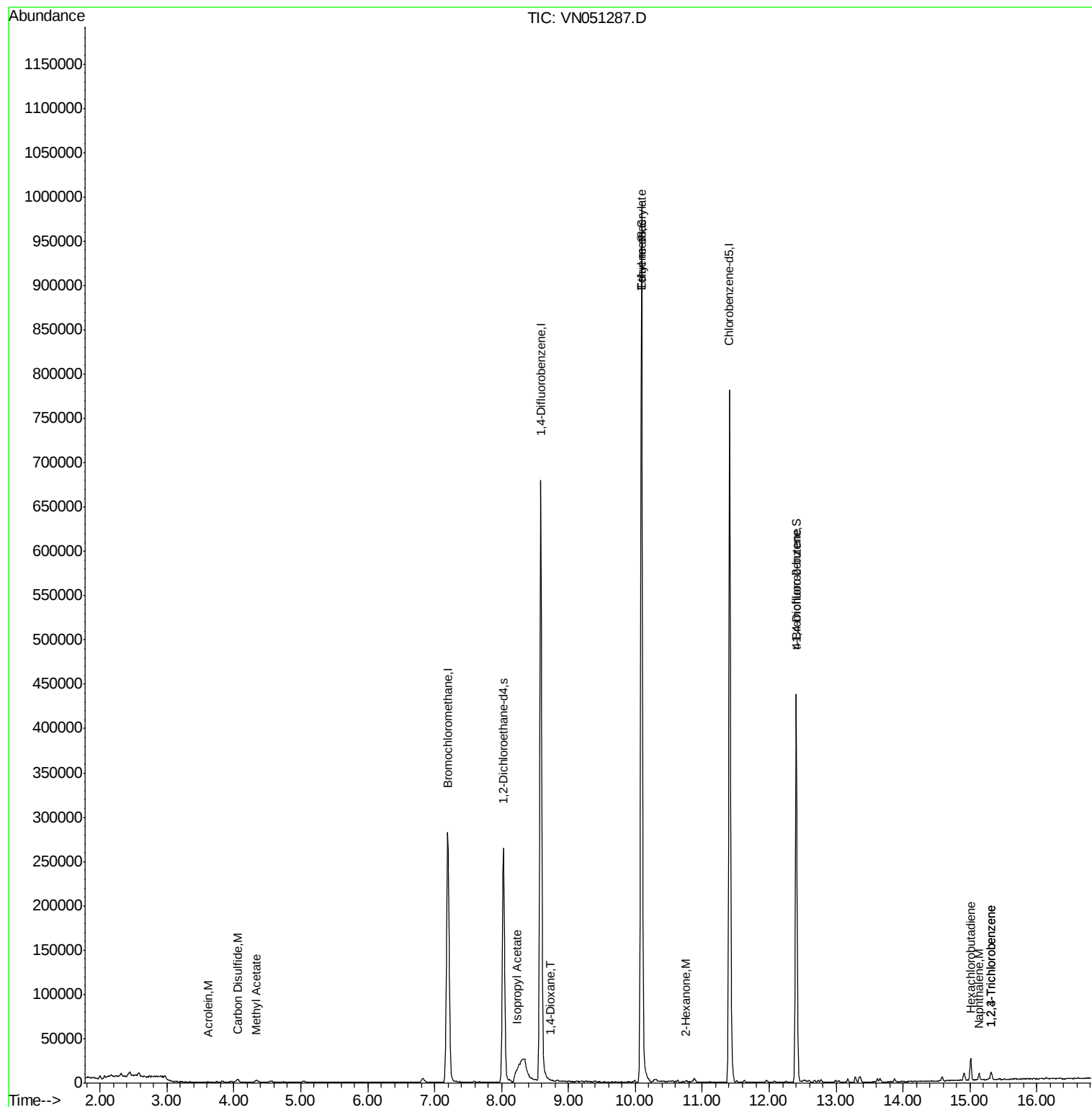
					Ovalue
12) Methyl Acetate	4.33	43	4239	0.553 ug/l #	89
13) Acrolein	3.61	56	197	1.160 ug/l #	70
16) Carbon Disulfide	4.05	76	7217	0.362 ug/l	100
44) Isopropyl Acetate	8.23	43	9193	0.856 ug/l #	57
45) 1,4-Dioxane	8.73	88	94	1.178 ug/l #	1
51) Ethyl methacrylate	10.10	69	2414	0.289 ug/l	90
59) 2-Hexanone	10.75	43	900	0.232 ug/l	88
77) t-1,4-Dichloro-2-butene	12.40	75	72090	36.956 ug/l #	14
89) 1,2,4-Trichlorobenzene	15.31	180	4234	0.741 ug/l	98
90) Hexachlorobutadiene	15.01	225	5698	1.468 ug/l	94
91) Naphthalene	15.14	128	7214	8.983 ug/l #	95
92) 1,2,3-Trichlorobenzene	15.31	180	4234	0.738 ug/l	99

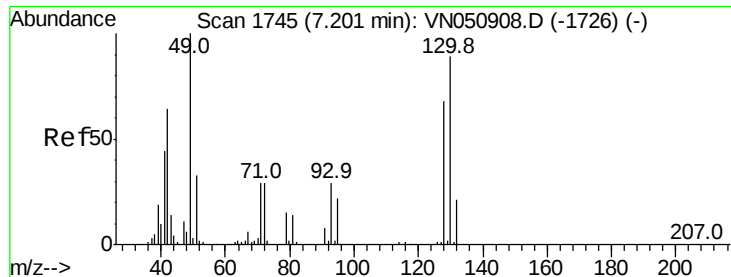
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091818\
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MSVOA_N
ClientSampleId :

Quant Time: Sep 18 14:26:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

ClientSampleId :

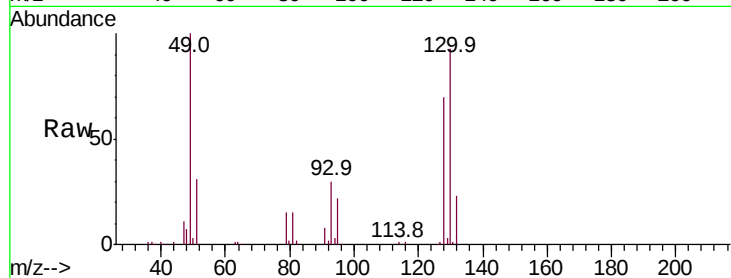
Tot Ion:128 Resp: 122752

Ion Ratio Lower Upper

128 100

49 141.2 0.0 380.3

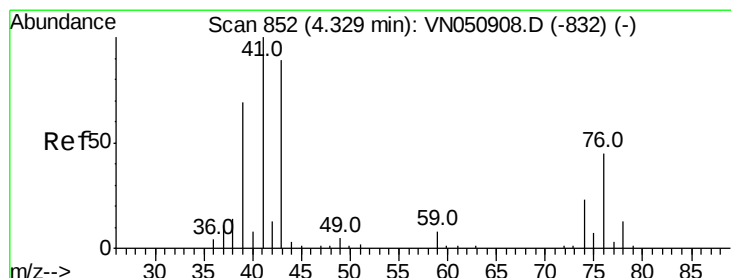
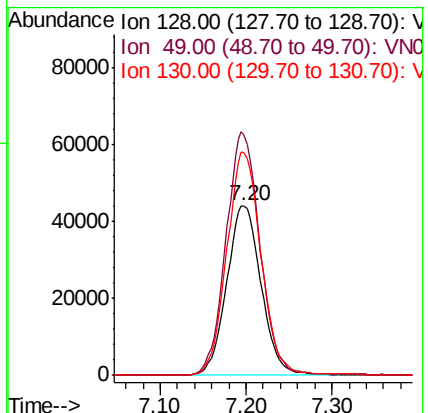
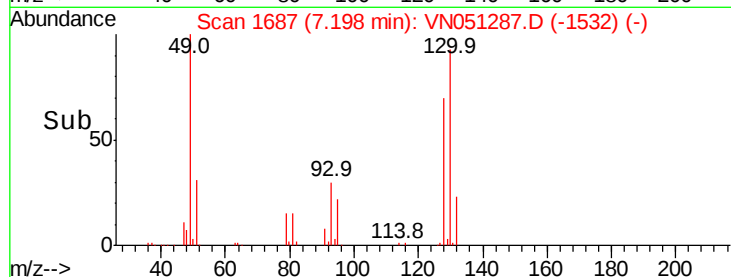
130 130.6 0.0 325.3



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: 0.553 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051287.D

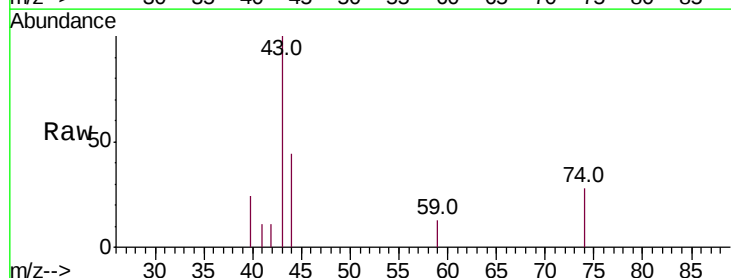
Acq: 18 Sep 2018 9:18

Tgt Ion: 43 Resp: 4239

Ion Ratio Lower Upper

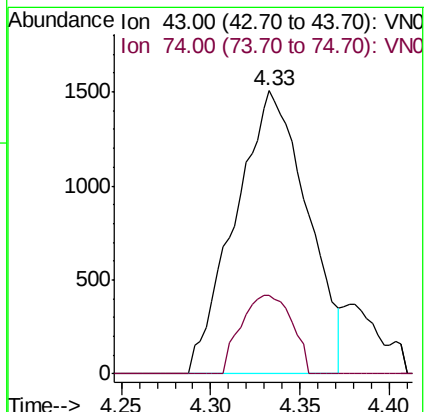
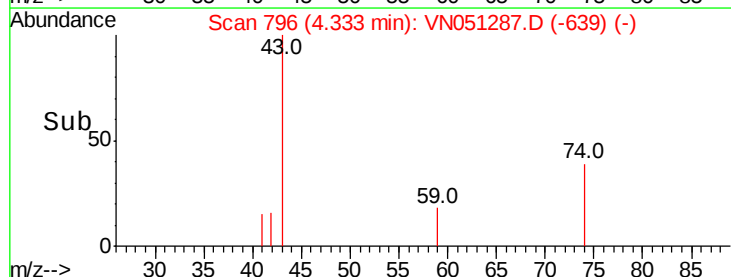
43 100

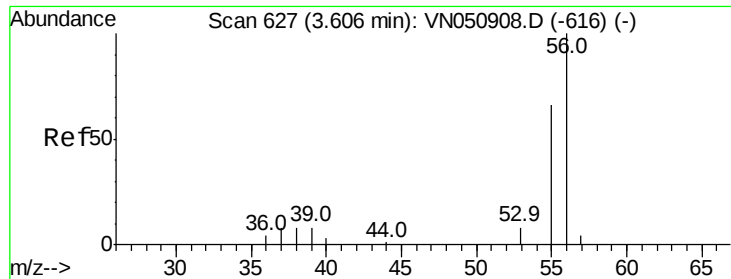
74 31.3 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 1.160 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

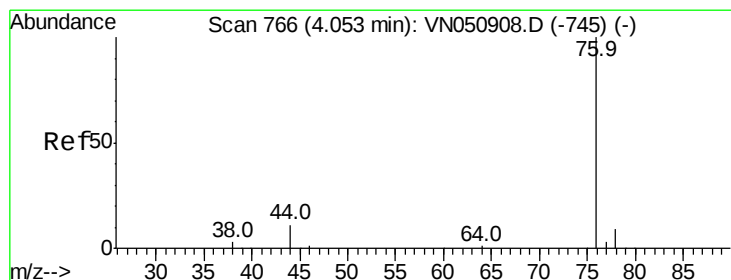
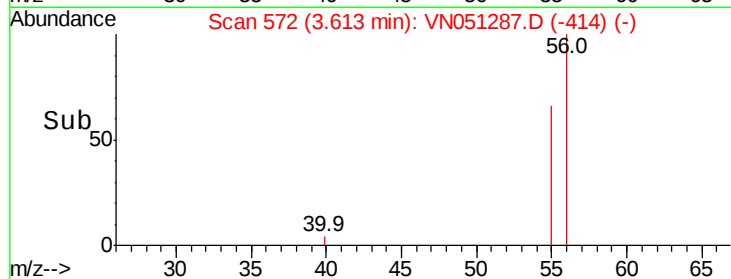
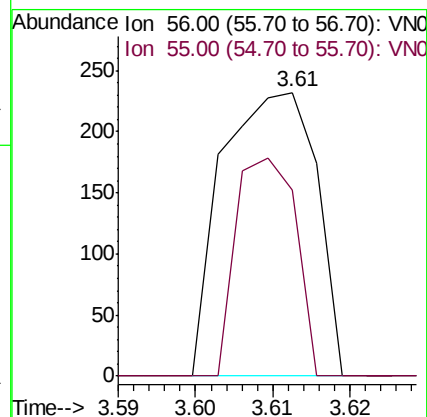
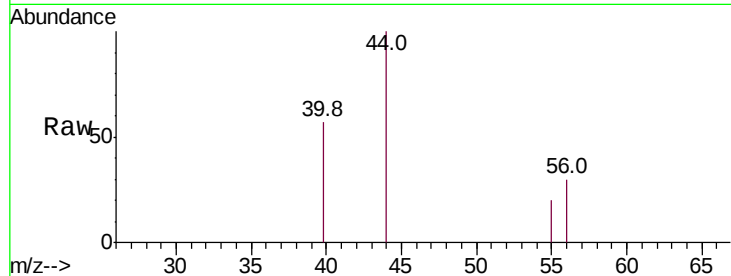
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 197

Ion Ratio Lower Upper

56 100

55 48.7 59.1 88.7#



#16

Carbon Disulfide

Concen: 0.362 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051287.D

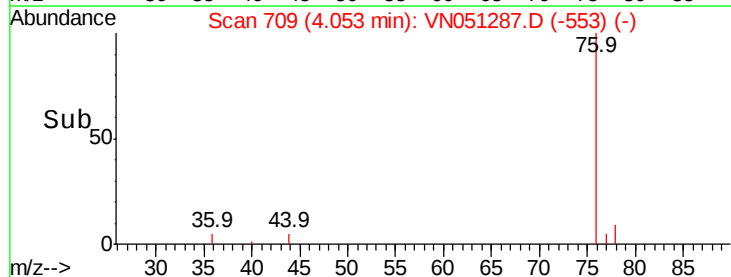
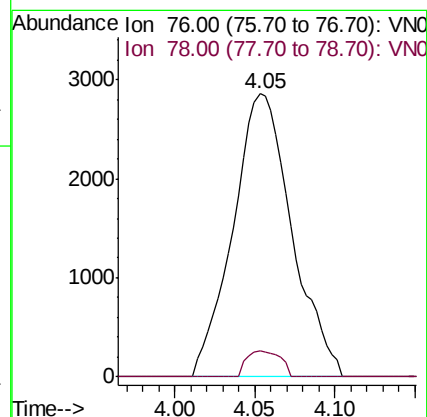
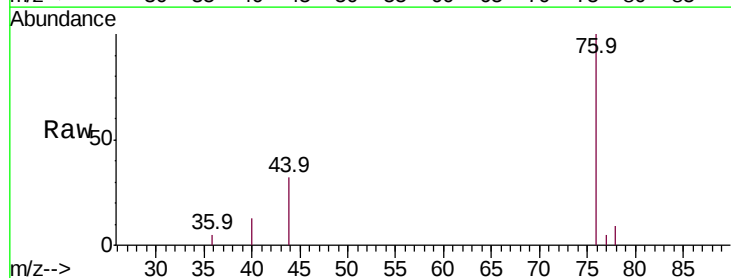
Acq: 18 Sep 2018 9:18

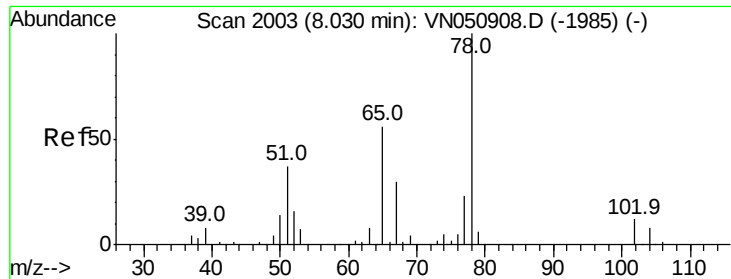
Tgt Ion: 76 Resp: 7217

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





#27

1,2-Dichloroethane-d4

Concen: 28.582 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

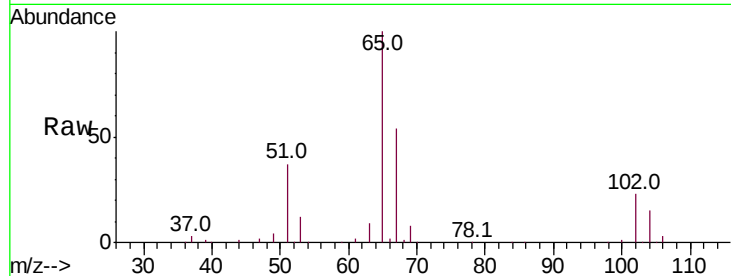
ClientSampled :

Tot Ion: 65 Resp: 223891

Ion Ratio Lower Upper

65 100

67 53.8 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN050908.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050908.D (-1985) (-)

8.03

100000

80000

60000

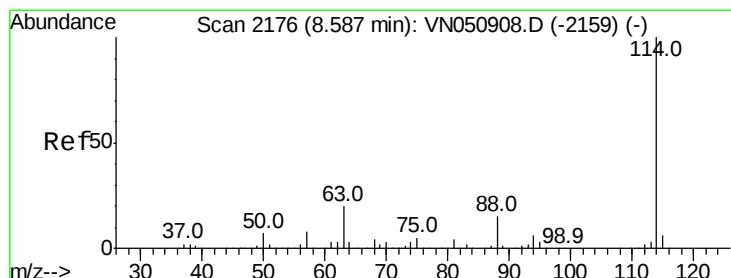
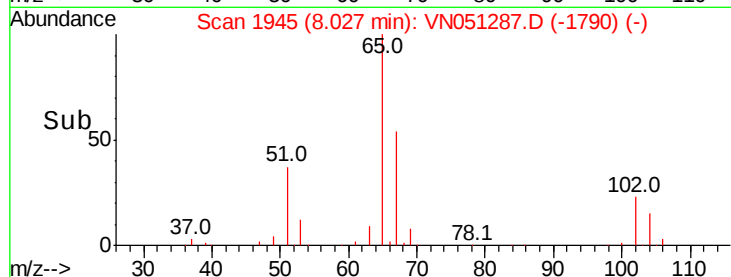
40000

20000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

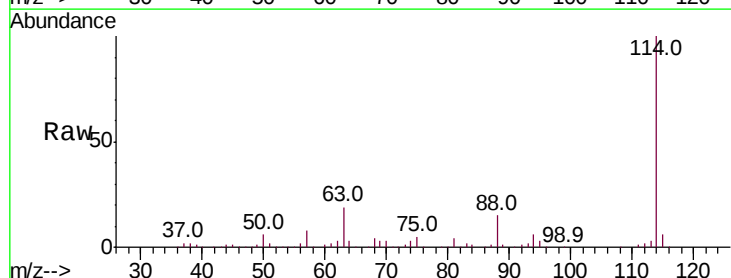
Tgt Ion: 114 Resp: 645096

Ion Ratio Lower Upper

114 100

63 19.0 15.6 23.4

88 15.2 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN050908.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050908.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050908.D (-2159) (-)

8.59

400000

300000

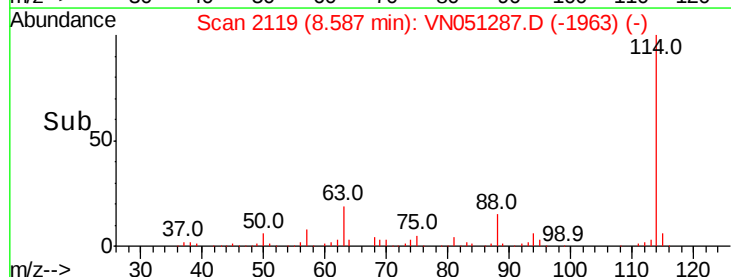
200000

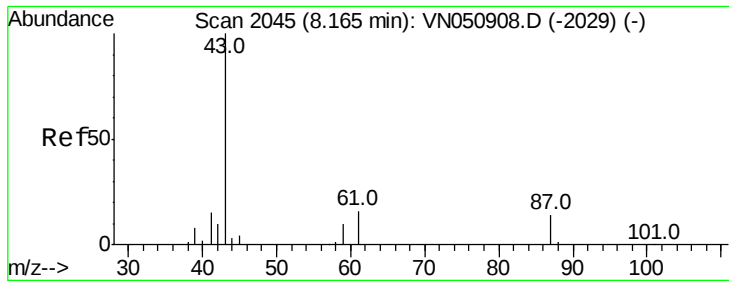
100000

0

8.50 8.55 8.60 8.65

Time-->





#44

Isopropyl Acetate

Concen: 0.856 ug/l

RT: 8.23 min Scan# 2007

Delta R.T. 0.06 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

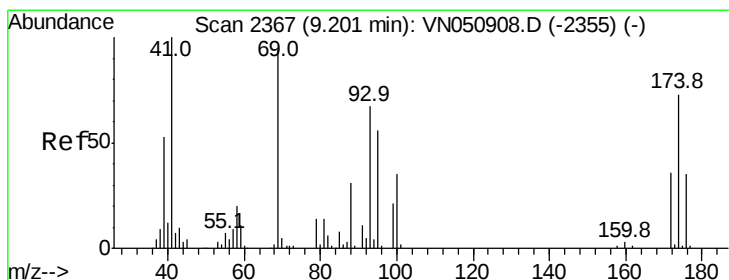
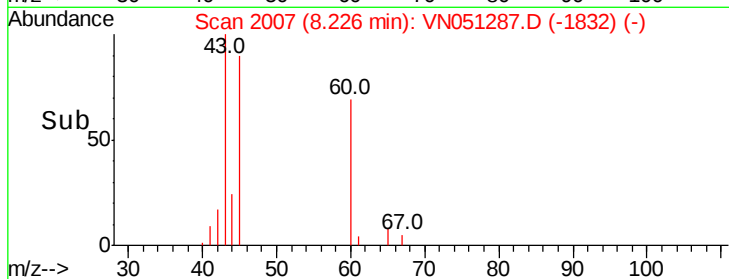
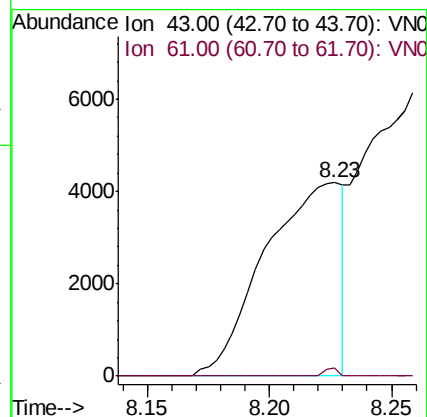
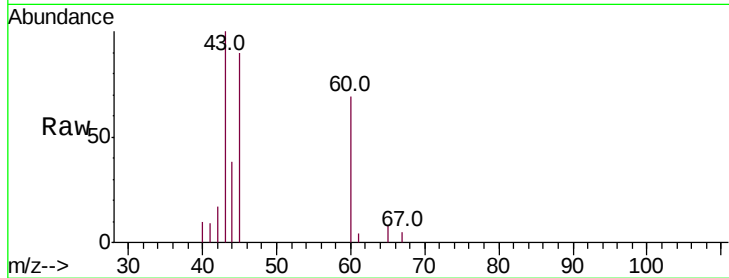
ClientSampled :

Tot Ion: 43 Resp: 9193

Ion Ratio Lower Upper

43 100

61 0.7 16.3 24.5#



#45

1,4-Dioxane

Concen: 1.178 ug/l

RT: 8.73 min Scan# 2164

Delta R.T. -0.47 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

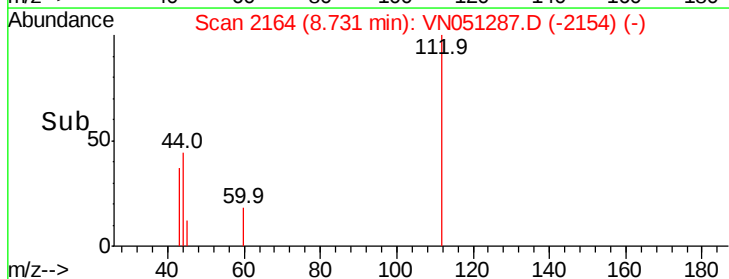
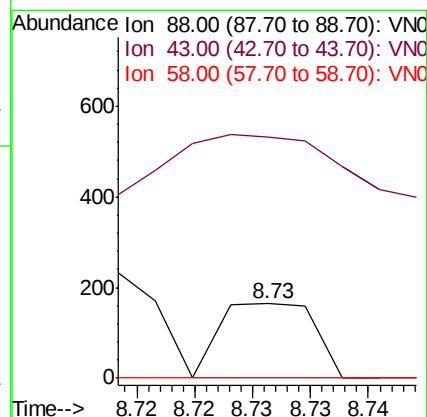
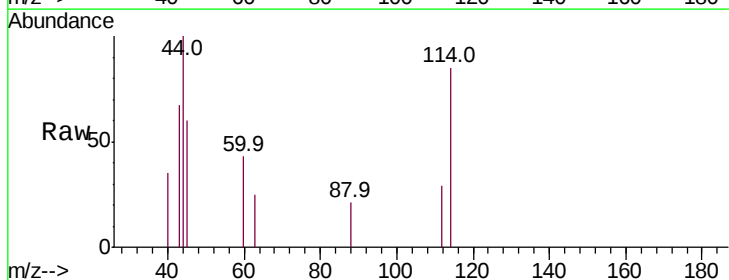
Tgt Ion: 88 Resp: 94

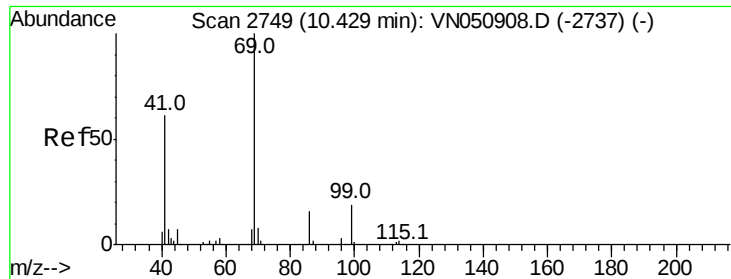
Ion Ratio Lower Upper

88 100

43 280.9 23.5 35.3#

58 0.0 55.2 82.8#





#51

Ethyl methacrylate

Concen: 0.289 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

ClientSampleId :

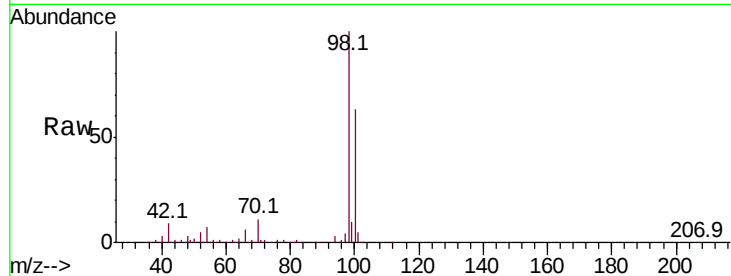
Tot Ion: 69 Resp: 2414

Ion Ratio Lower Upper

69 100

41 67.6 30.5 91.5

39 23.3 15.3 45.8

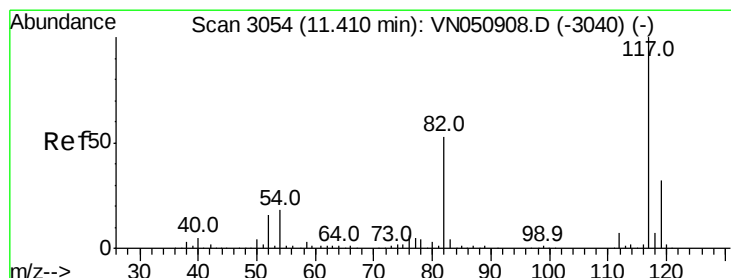
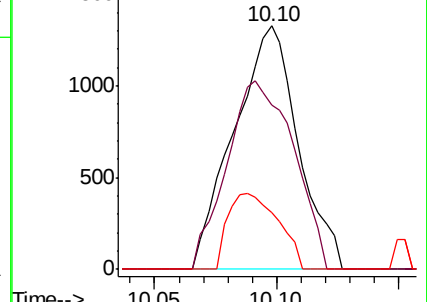
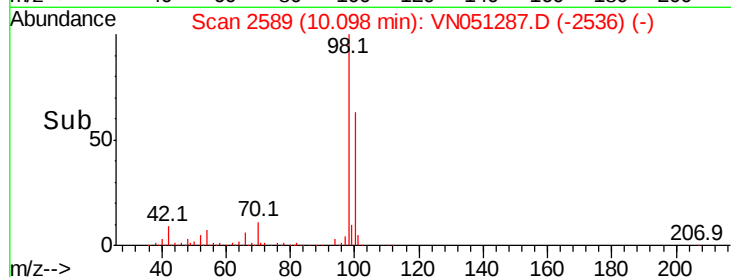


Abundance Ion 69.00 (68.70 to 69.70): VN050908.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050908.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050908.D (-2737) (-)

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

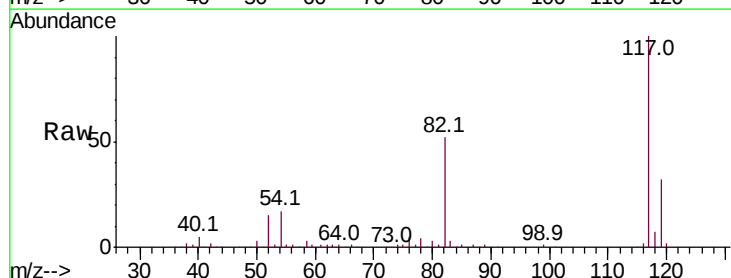
Tgt Ion: 117 Resp: 519234

Ion Ratio Lower Upper

117 100

82 52.4 42.6 64.0

119 32.0 25.7 38.5

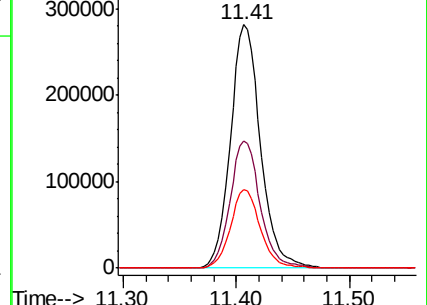
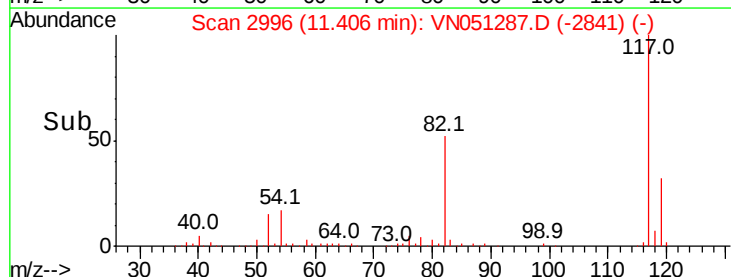


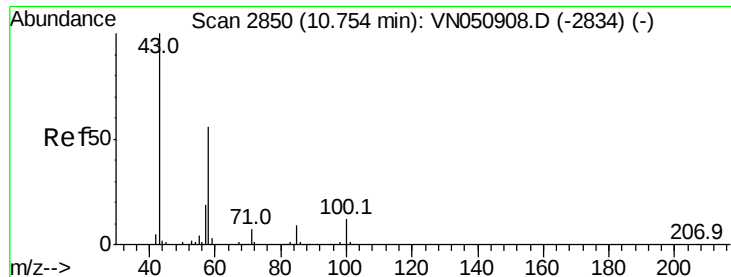
Abundance Ion 117.00 (116.70 to 117.70): VN050908.D (-3040) (-)

Ion 82.00 (81.70 to 82.70): VN050908.D (-3040) (-)

Ion 119.00 (118.70 to 119.70): VN050908.D (-3040) (-)

Time-->

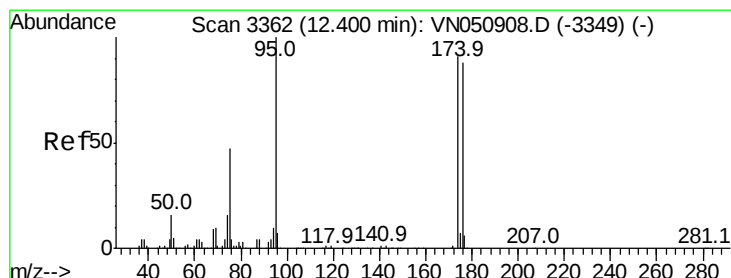
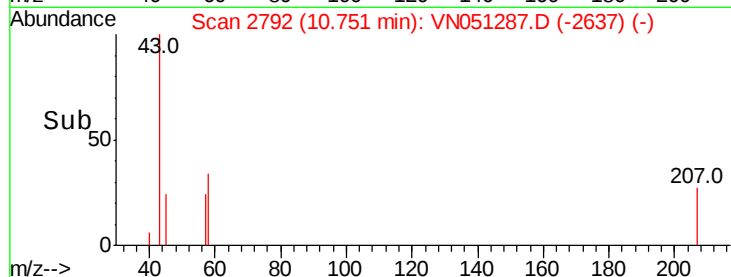
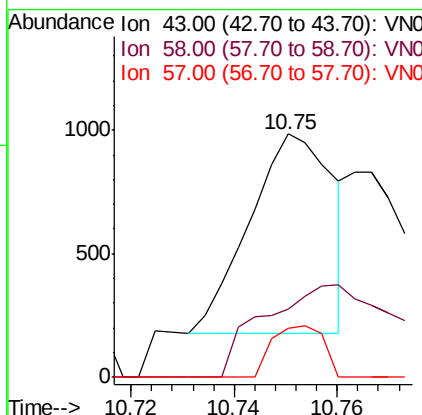
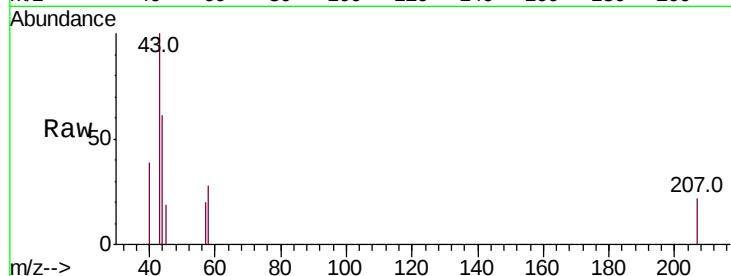




#59
2-Hexanone
Concen: 0.232 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051287.D
Acq: 18 Sep 2018 9:18

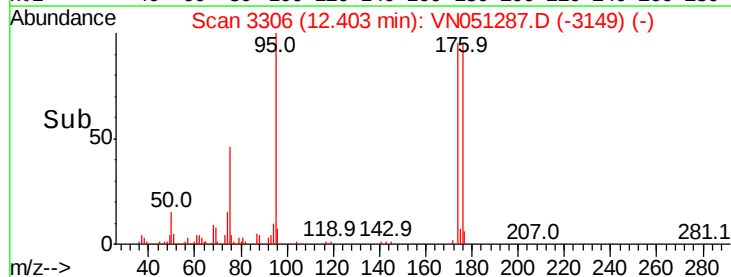
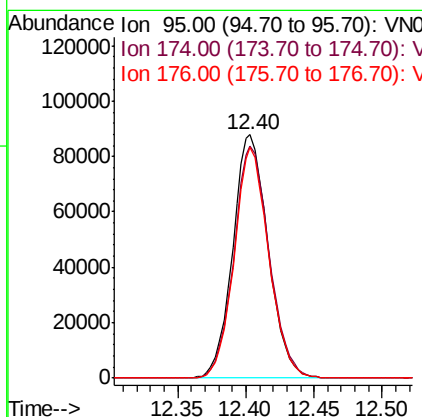
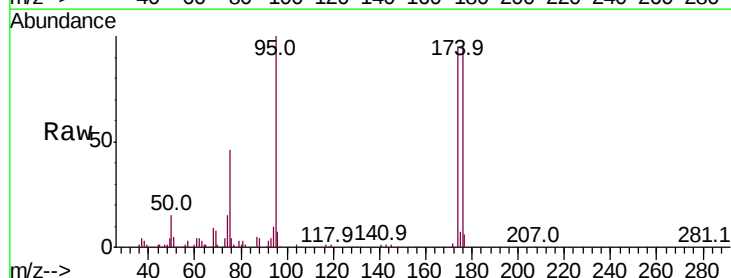
Instrument :
MSVOA_N
ClientSampleId :

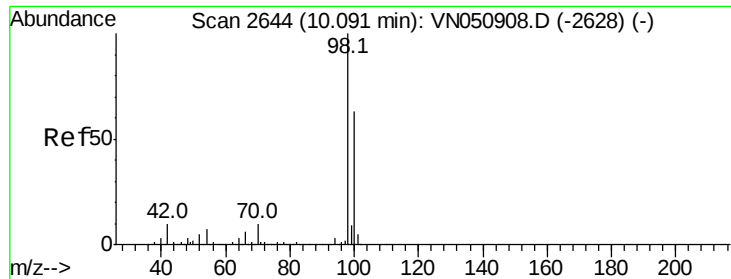
Tot Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
58 67.3 45.5 68.3
57 15.9 15.2 22.8



#60
4-Bromofluorobenzene
Concen: 20.411 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051287.D
Acq: 18 Sep 2018 9:18

Tgt Ion: 95 Resp: 157593
Ion Ratio Lower Upper
95 100
174 95.7 74.6 112.0
176 92.5 71.5 107.3





#63

Toluene-d8

Concen: 31.115 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

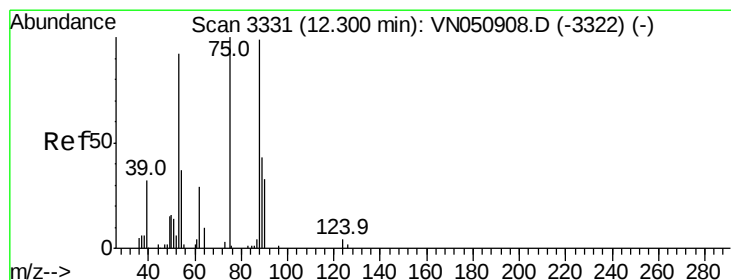
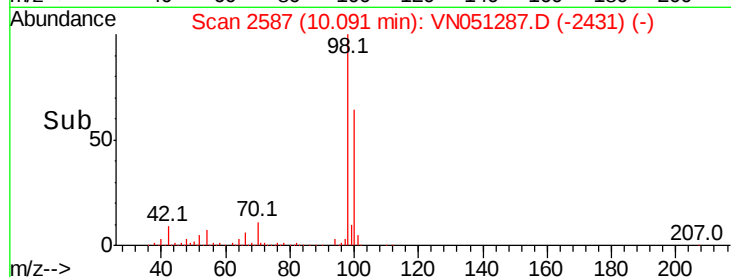
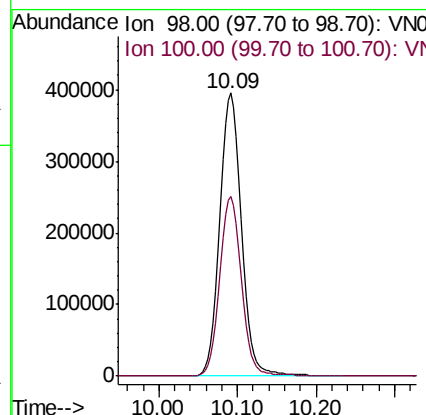
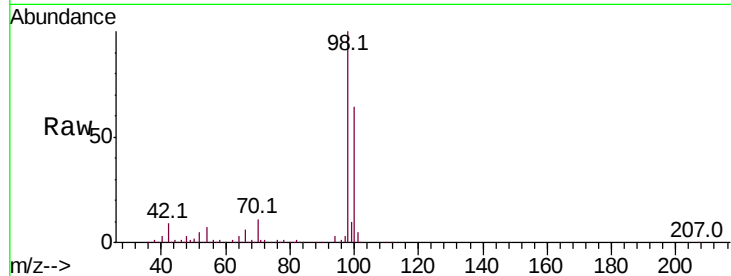
ClientSampled :

Tot Ion: 98 Resp: 753414

Ion Ratio Lower Upper

98 100

100 63.5 50.6 75.8



#77

t-1,4-Dichloro-2-butene

Concen: 36.956 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

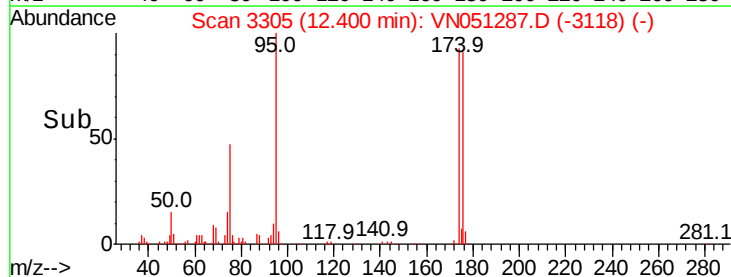
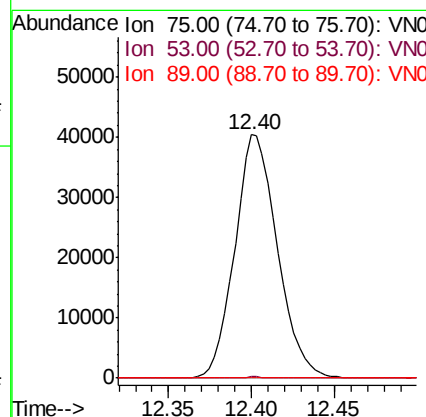
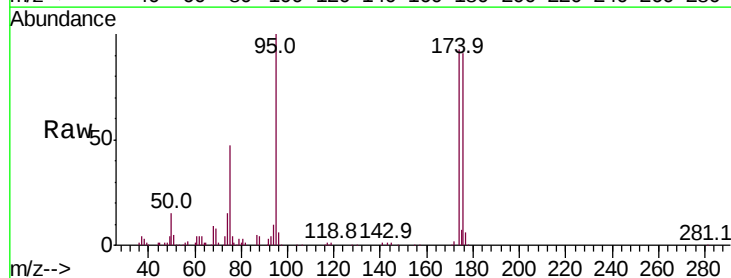
Tgt Ion: 75 Resp: 72090

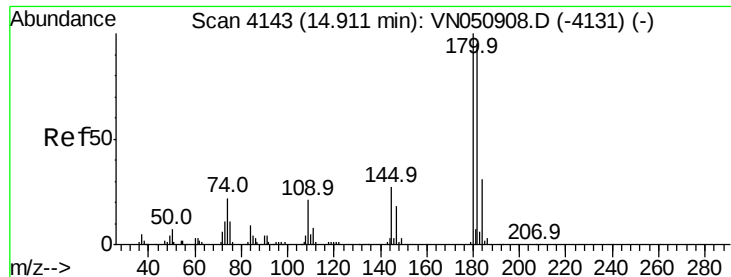
Ion Ratio Lower Upper

75 100

53 0.5 45.5 136.4#

89 0.0 21.9 65.8#

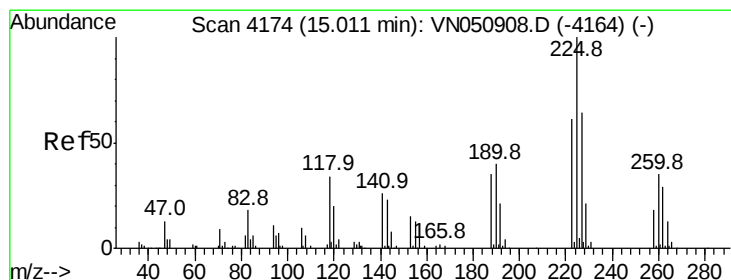
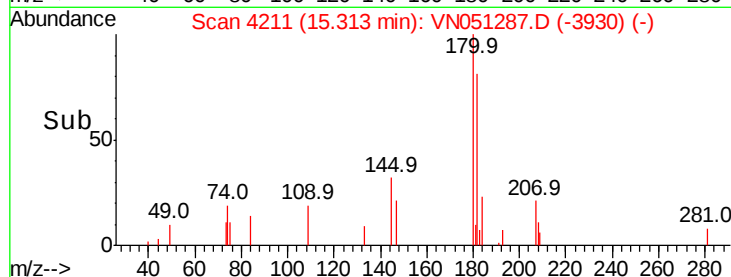
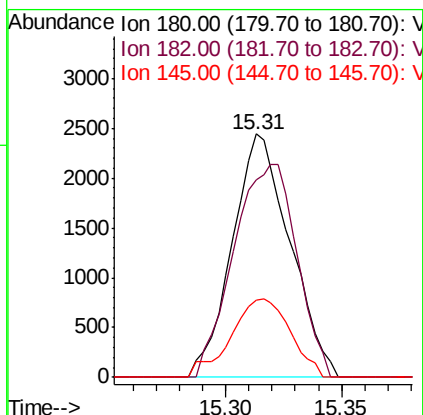
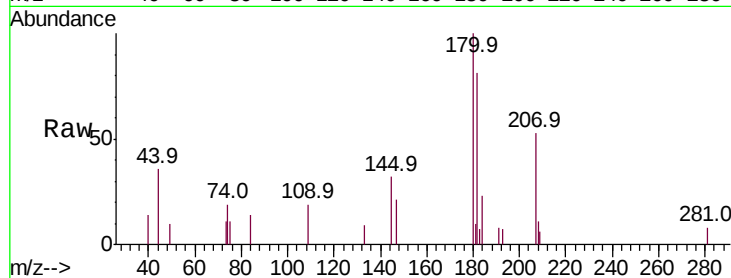




#89
 1,2,4-Trichlorobenzene
 Concen: 0.741 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.40 min
 Lab File: VN051287.D
 Acq: 18 Sep 2018 9:18

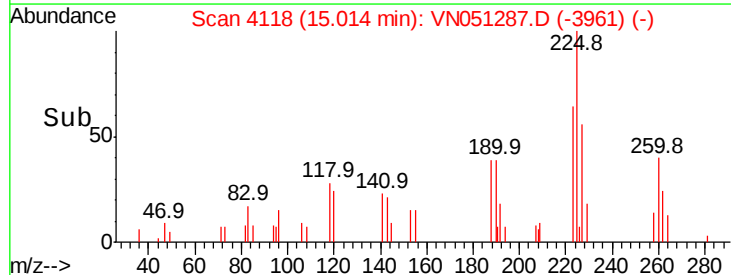
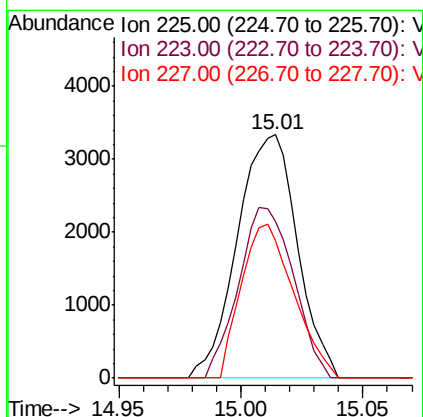
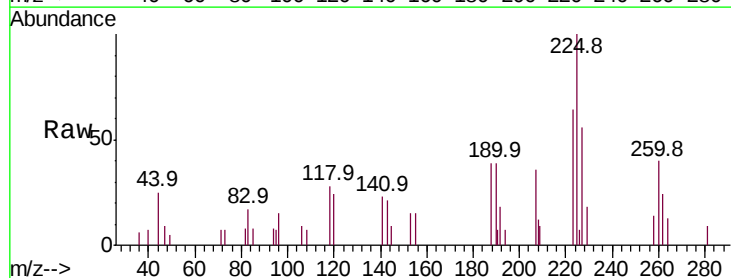
Instrument :
 MSVOA_N
 ClientSampleId :

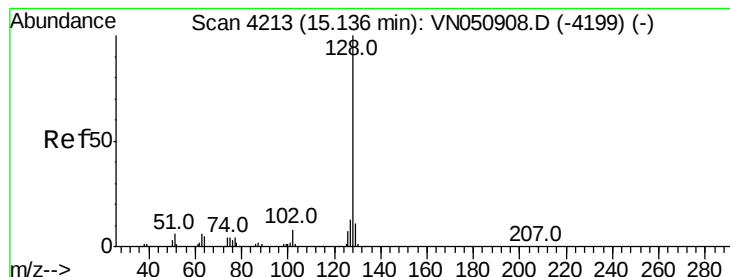
Tot Ion:180 Resp: 4234
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.4
 145 31.6 22.2 33.4



#90
 Hexachlorobutadiene
 Concen: 1.468 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN051287.D
 Acq: 18 Sep 2018 9:18

Tgt Ion:225 Resp: 5698
 Ion Ratio Lower Upper
 225 100
 223 64.2 0.0 127.8
 227 55.1 0.0 128.4





#91

Naphthalene

Concen: 8.983 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

Instrument :

MSVOA_N

ClientSampleId :

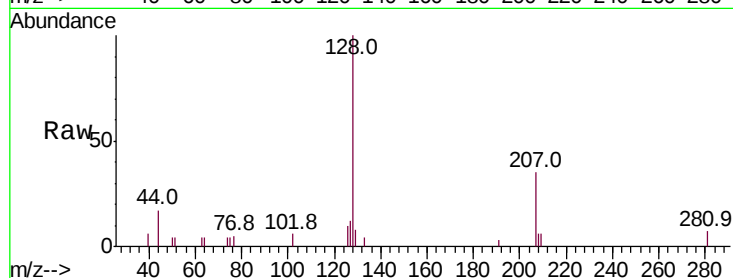
Tot Ion:128 Resp: 7214

Ion Ratio Lower Upper

128 100

127 14.0 10.6 16.0

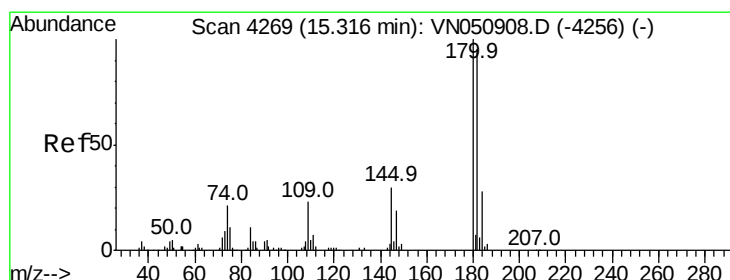
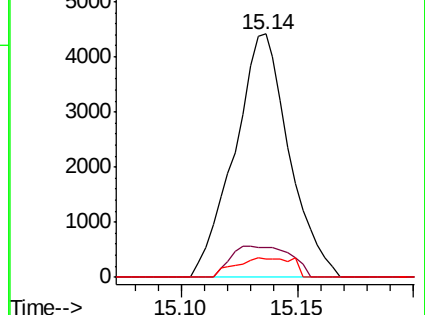
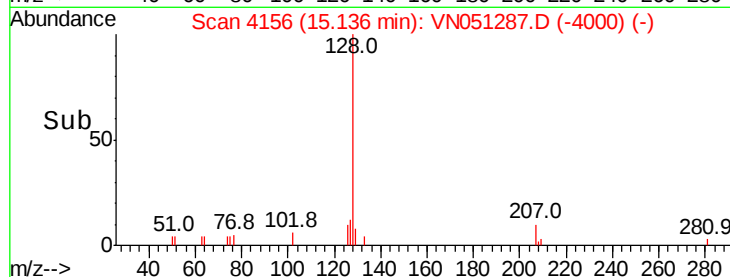
129 7.4 8.7 13.1#



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: 0.738 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051287.D

Acq: 18 Sep 2018 9:18

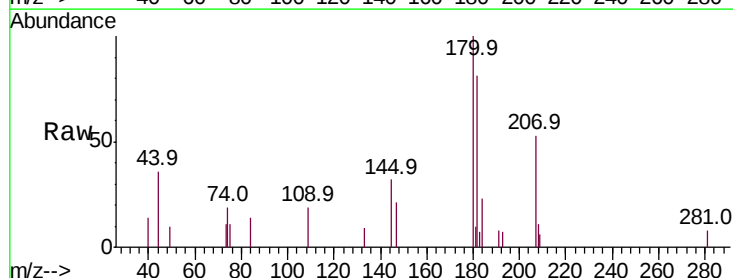
Tgt Ion:180 Resp: 4234

Ion Ratio Lower Upper

180 100

182 95.6 0.0 192.8

145 31.6 0.0 60.0



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

