

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055807.D
 Acq On : 24 May 2019 19:53
 Operator : JC/SP
 Sample : K3024-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: May 25 04:24:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59614	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	310642	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	249243	30.00	ug/l	0.00

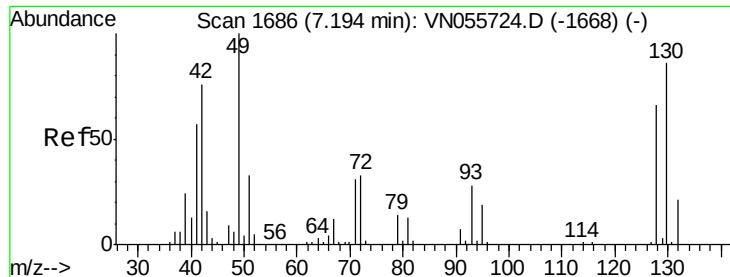
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113059	29.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.73%
60) 4-Bromofluorobenzene	12.40	95	91805	23.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.93%
63) Toluene-d8	10.09	98	360532	31.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.50%

Target Compounds

					Ovalue	
12) Methyl Acetate	4.34	43	3159	0.821	ug/l	99
23) tert-Butyl Alcohol	4.74	59	428	0.555	ug/l #	100
25) Chloroform	7.37	83	4231	0.689	ug/l	96
44) Isopropyl Acetate	8.26	43	2217	0.294	ug/l #	47
50) 1,1,2-Trichloroethane	10.10	97	10838	3.194	ug/l #	1
53) Dibromochloromethane	10.63	129	6739	1.681	ug/l #	10
61) Tetrachloroethene	10.63	164	7856	2.328	ug/l	98
72) 1,2,3-Trichloropropane	12.40	75	43006	11.272	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	43006	28.379	ug/l #	17
89) 1,2,4-Trichlorobenzene	15.32	180	1514	0.466	ug/l	97
91) Naphthalene	15.14	128	4222	0.476	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.32	180	1514	0.446	ug/l	96

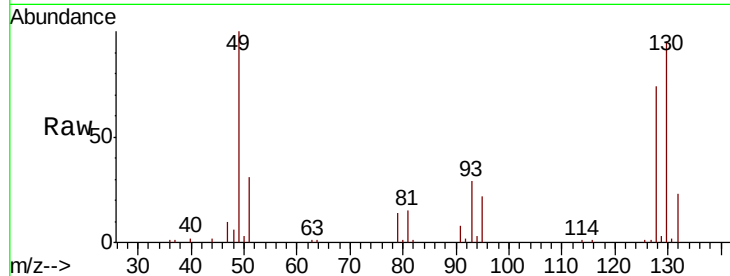
(#) = qualifier out of range (m) = manual integration (+) = signals summed



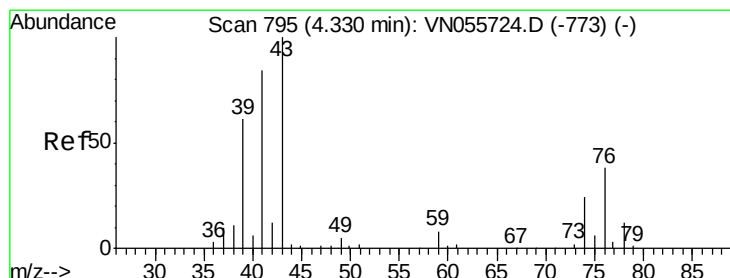
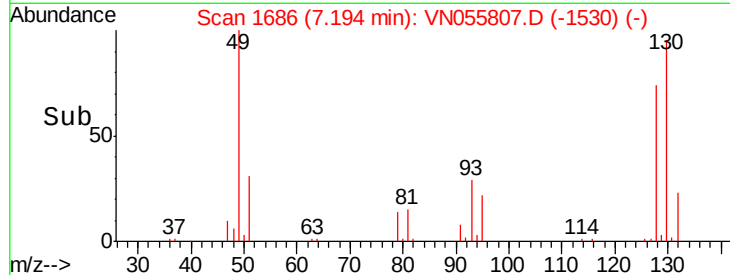
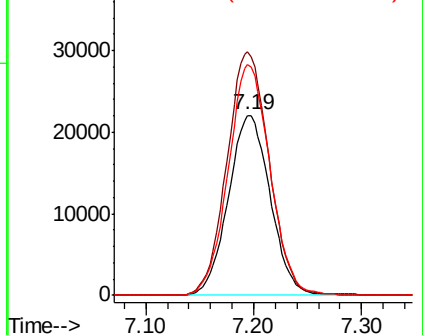
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055807.D
 Acq: 24 May 2019 19:53

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion:128 Resp: 59614
 Ion Ratio Lower Upper
 128 100
 49 136.2 0.0 383.2
 130 128.4 0.0 326.3

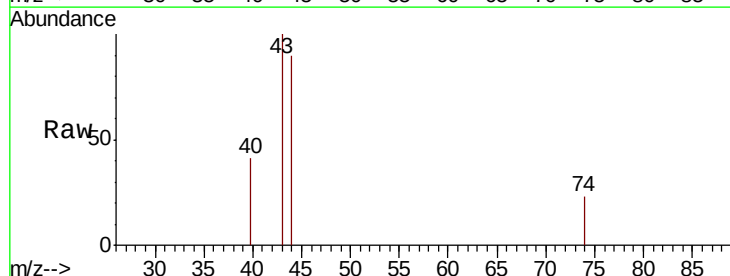


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

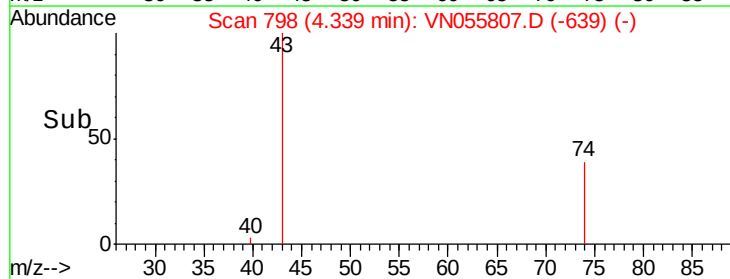
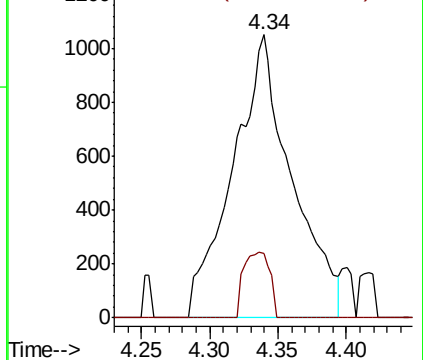


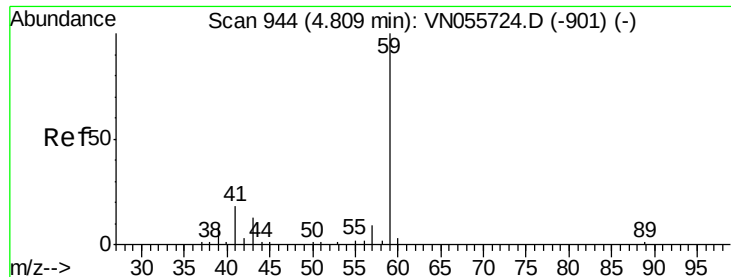
#12
 Methyl Acetate
 Concen: 0.821 ug/l
 RT: 4.34 min Scan# 798
 Delta R.T. 0.01 min
 Lab File: VN055807.D
 Acq: 24 May 2019 19:53

Tgt Ion: 43 Resp: 3159
 Ion Ratio Lower Upper
 43 100
 74 24.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN





#23

tert-Butyl Alcohol

Concen: 0.555 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

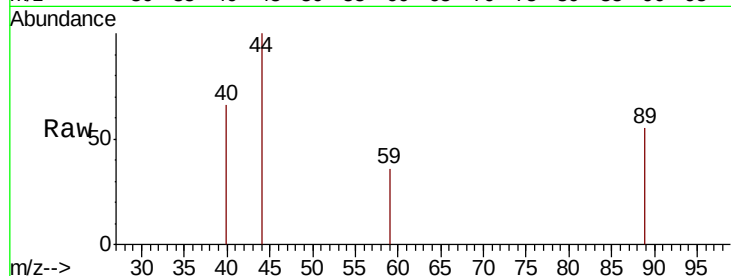
SPDES-1

Tot Ion: 59 Resp: 428

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

4.74

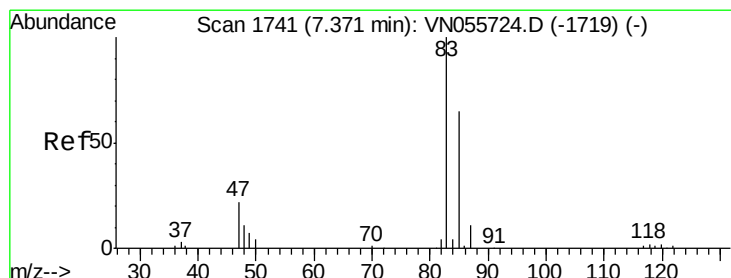
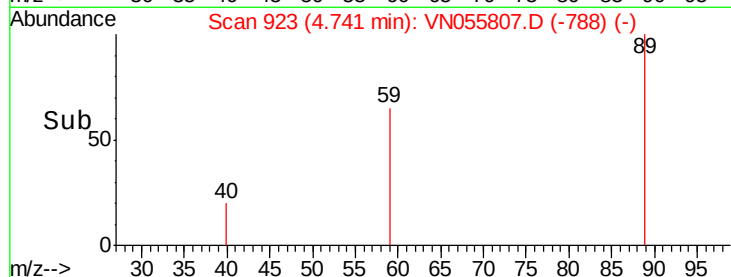
300

200

100

0

Time-->



#25

Chloroform

Concen: 0.689 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN055807.D

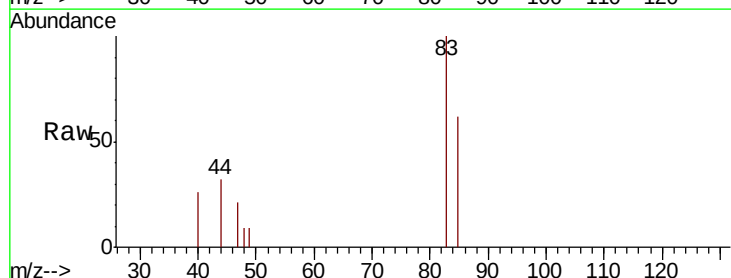
Acq: 24 May 2019 19:53

Tgt Ion: 83 Resp: 4231

Ion Ratio Lower Upper

83 100

85 61.6 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

2000

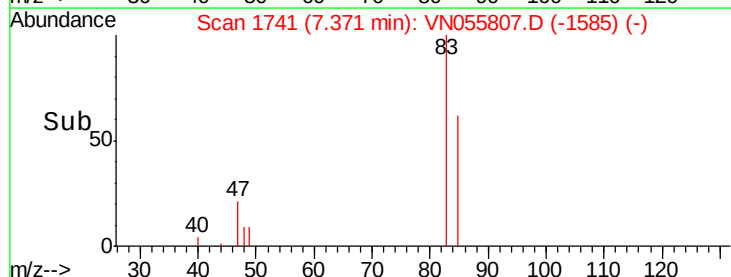
1500

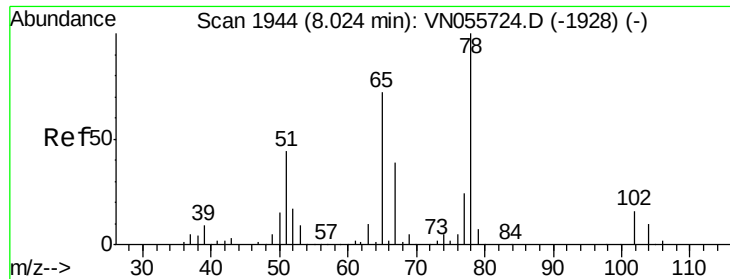
1000

500

0

Time-->

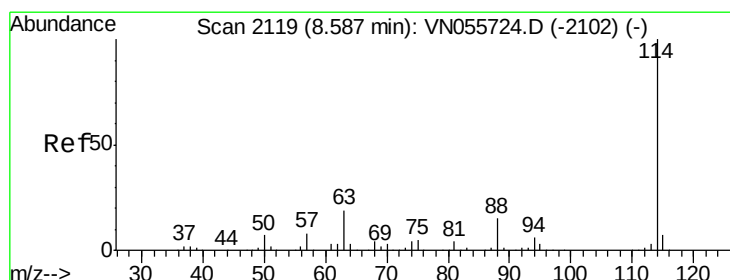
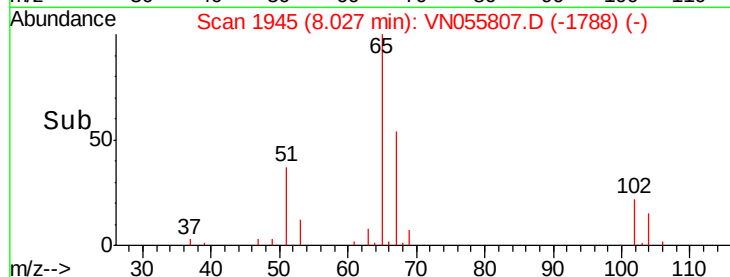
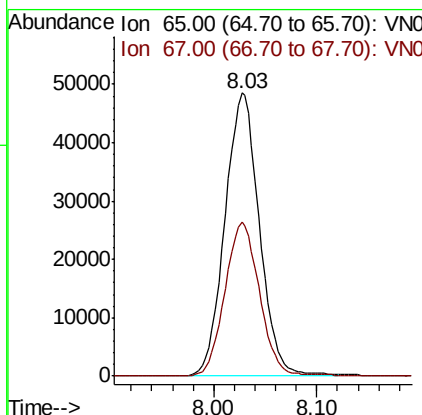
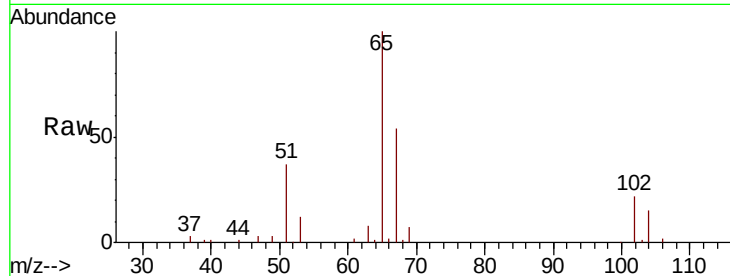




#27
 1,2-Dichloroethane-d4
 Concen: 29.015 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055807.D
 Acq: 24 May 2019 19:53

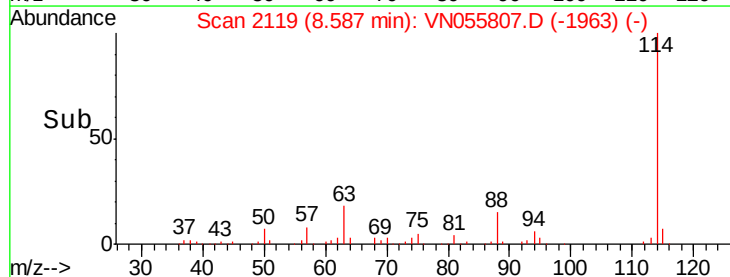
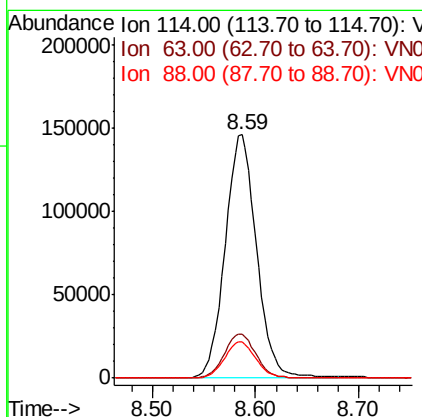
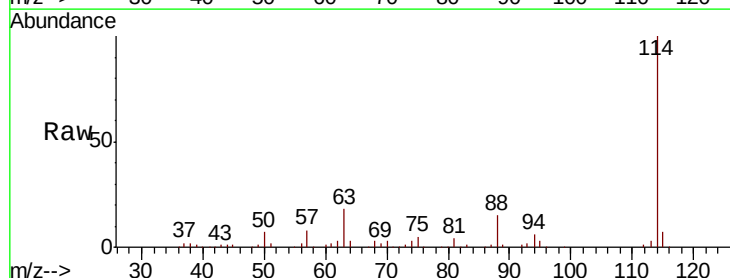
Instrument :
 MSVOA_N
 ClientSampled :
 SPDES-1

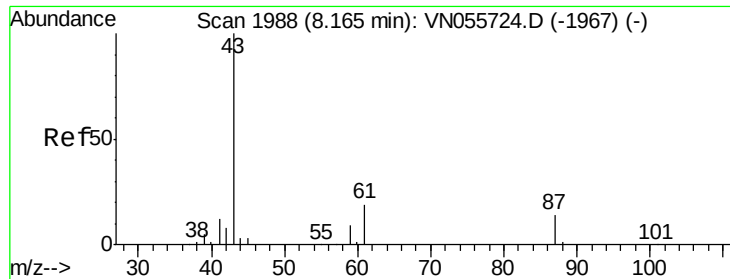
Tot Ion: 65 Resp: 113059
 Ion Ratio Lower Upper
 65 100
 67 54.3 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055807.D
 Acq: 24 May 2019 19:53

Tgt Ion: 114 Resp: 310642
 Ion Ratio Lower Upper
 114 100
 63 18.3 15.6 23.4
 88 14.9 12.3 18.5





#44

Isopropyl Acetate

Concen: 0.294 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

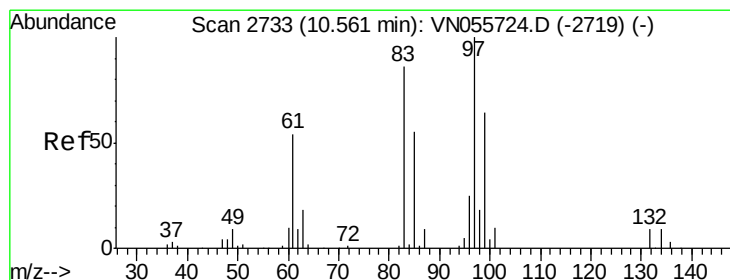
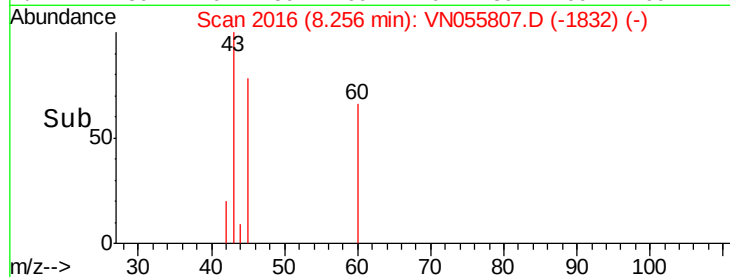
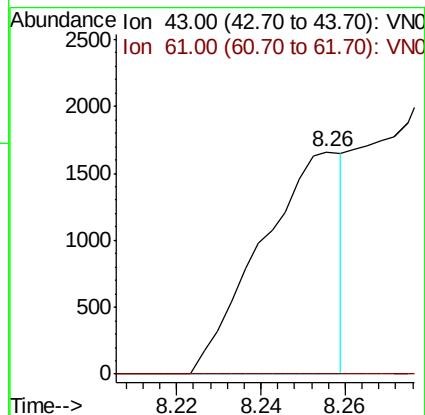
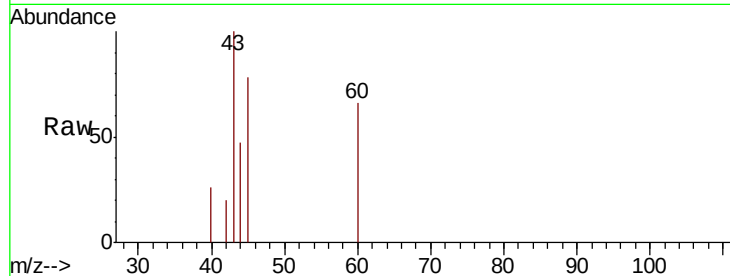
SPDES-1

Tot Ion: 43 Resp: 2217

Ion Ratio Lower Upper

43 100

61 0.0 22.1 33.1#



#50

1,1,2-Trichloroethane

Concen: 3.194 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Tgt Ion: 97 Resp: 10838

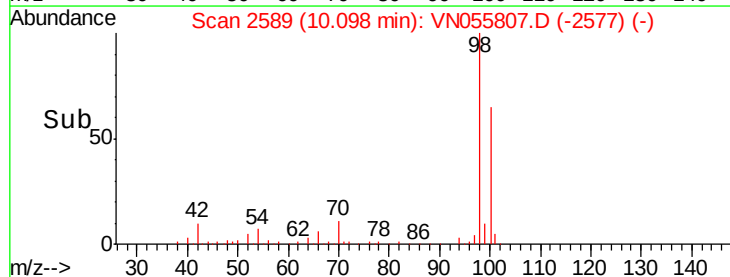
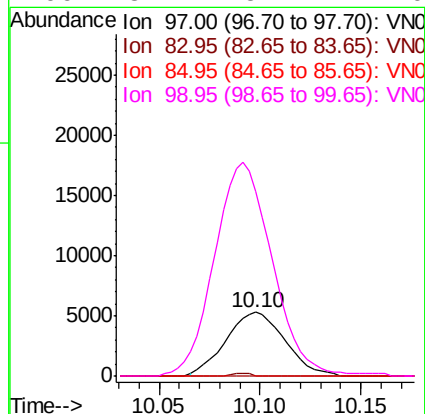
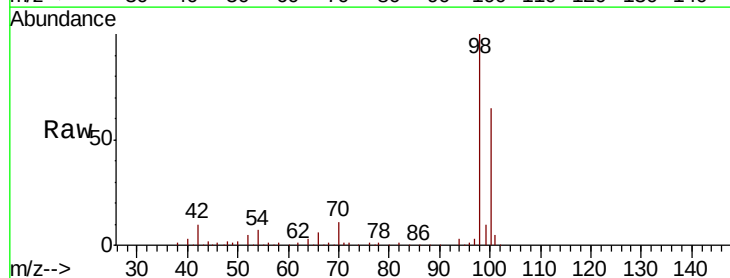
Ion Ratio Lower Upper

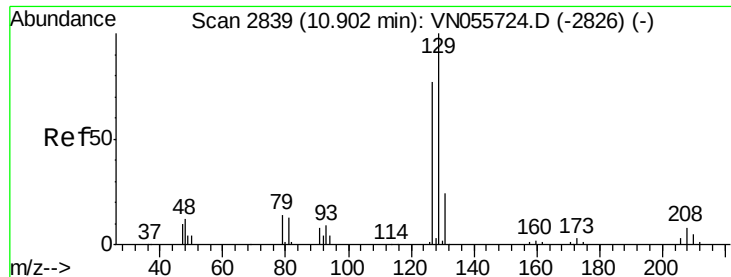
97 100

83 0.0 68.9 103.3#

85 0.0 44.3 66.5#

99 282.2 51.4 77.0#

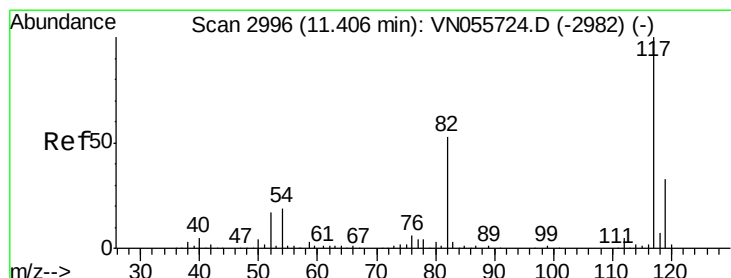
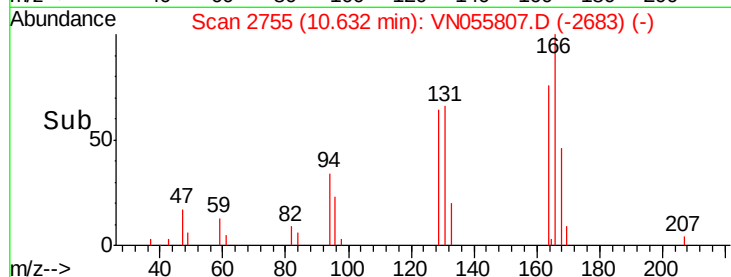
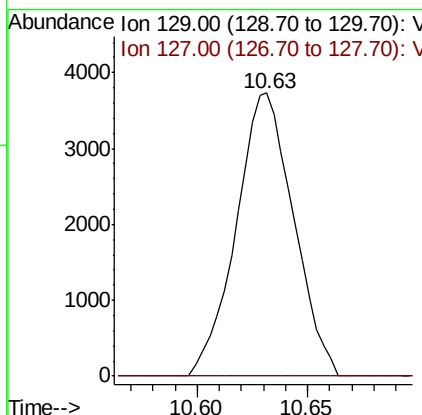
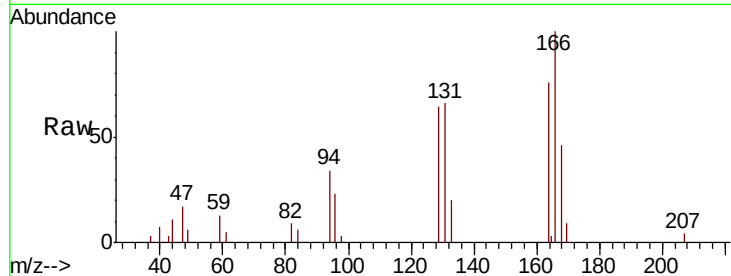




#53
Dibromochloromethane
Concen: 1.681 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN055807.D
Acq: 24 May 2019 19:53

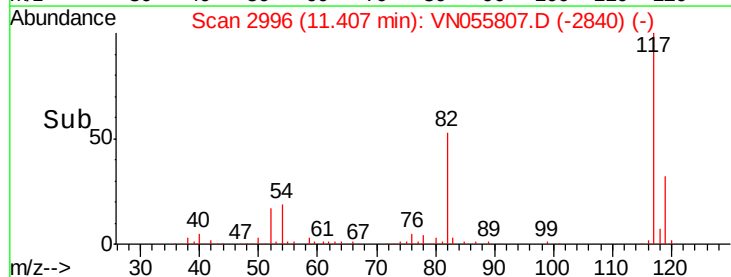
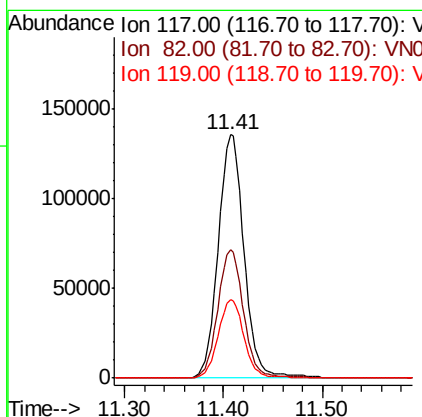
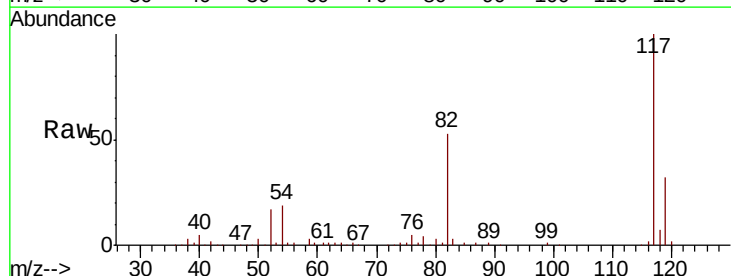
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

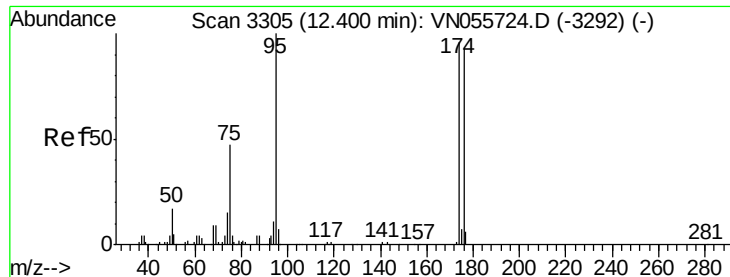
Tot Ion:129 Resp: 6739
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055807.D
Acq: 24 May 2019 19:53

Tgt Ion:117 Resp: 249243
Ion Ratio Lower Upper
117 100
82 52.7 42.6 64.0
119 32.4 25.9 38.9

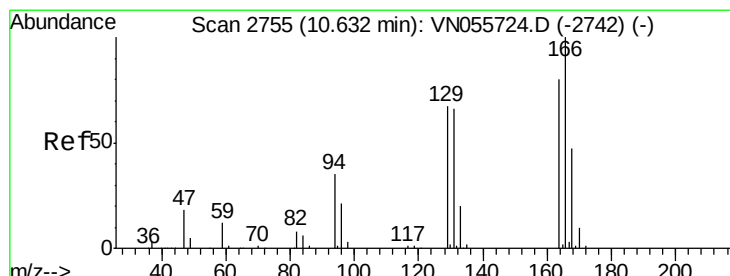
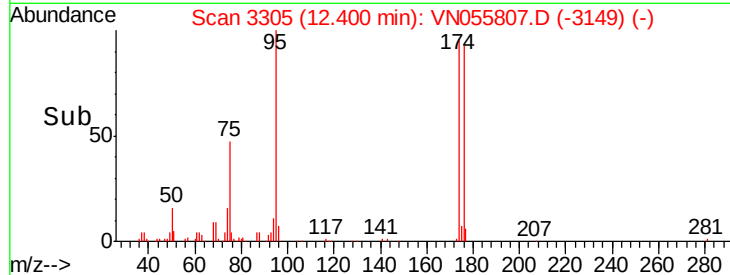
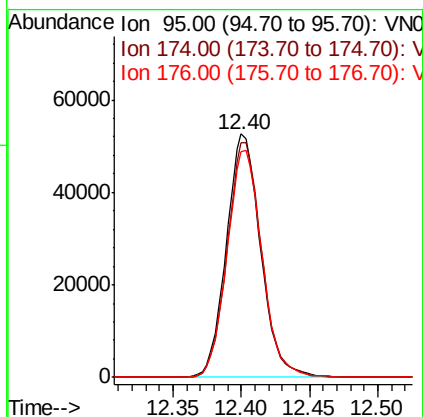
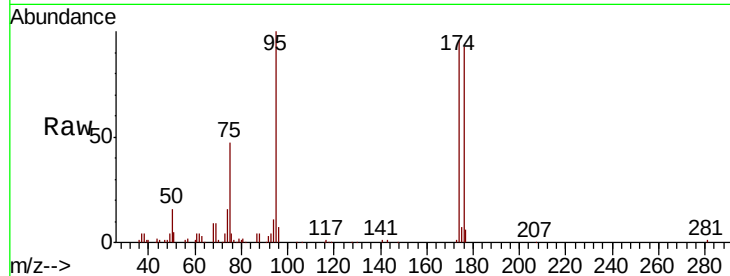




#60
4-Bromofluorobenzene
Concen: 23.678 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055807.D
Acq: 24 May 2019 19:53

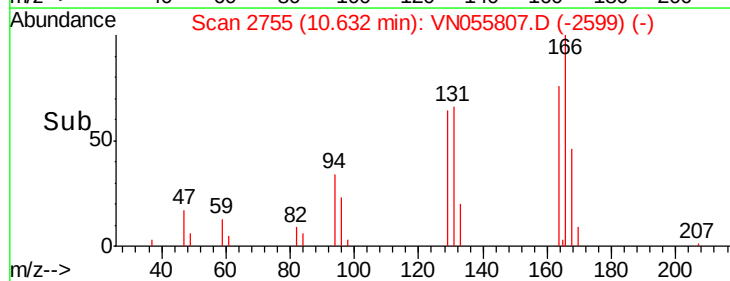
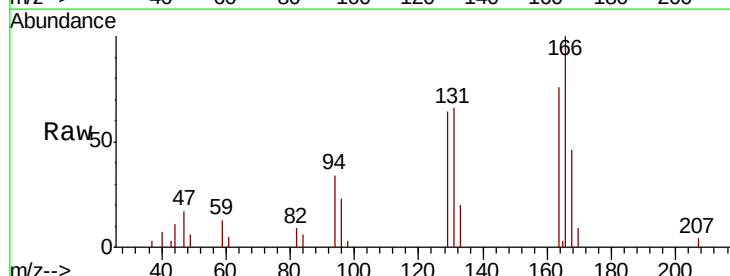
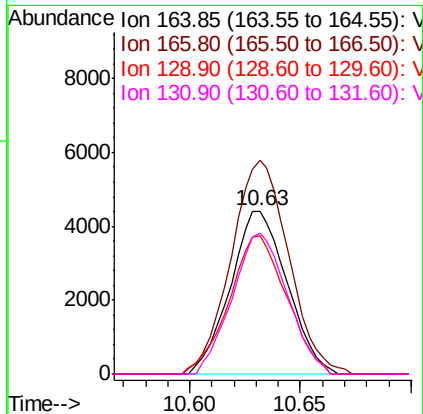
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

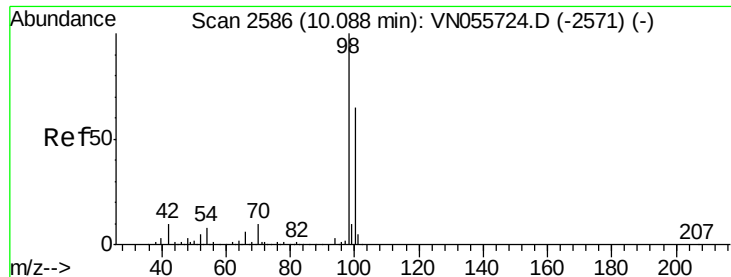
Tot Ion: 95 Resp: 91805
Ion Ratio Lower Upper
95 100
174 97.3 75.7 113.5
176 95.0 74.1 111.1



#61
Tetrachloroethene
Concen: 2.328 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055807.D
Acq: 24 May 2019 19:53

Tgt Ion: 164 Resp: 7856
Ion Ratio Lower Upper
164 100
166 127.5 100.6 150.8
129 84.5 67.4 101.2
131 86.6 66.6 99.8





#63

Toluene-d8

Concen: 31.653 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

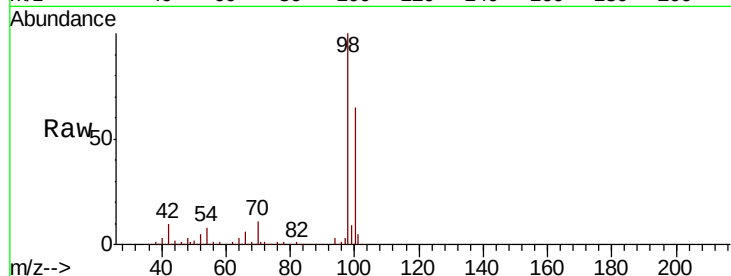
SPDES-1

Tot Ion: 98 Resp: 360532

Ion Ratio Lower Upper

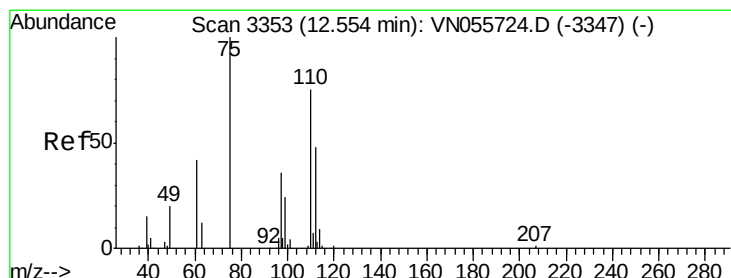
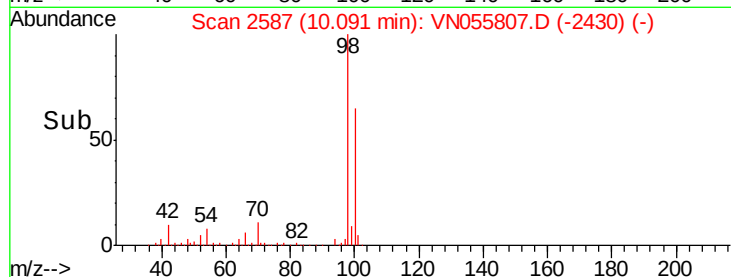
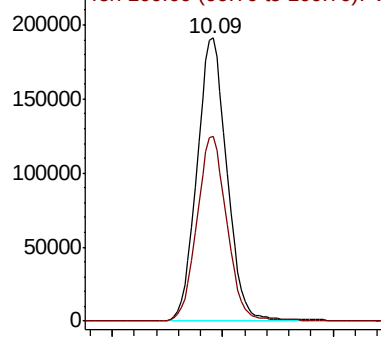
98 100

100 65.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#72

1,2,3-Trichloropropane

Concen: 11.272 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055807.D

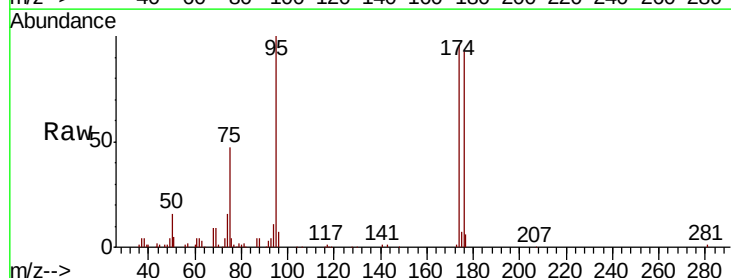
Acq: 24 May 2019 19:53

Tgt Ion: 75 Resp: 43006

Ion Ratio Lower Upper

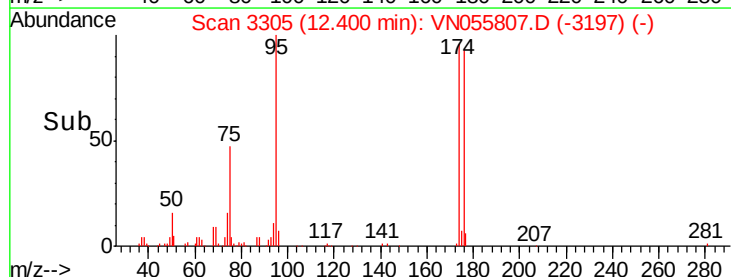
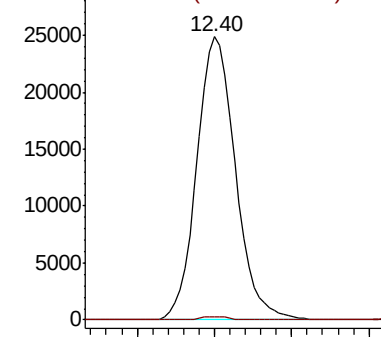
75 100

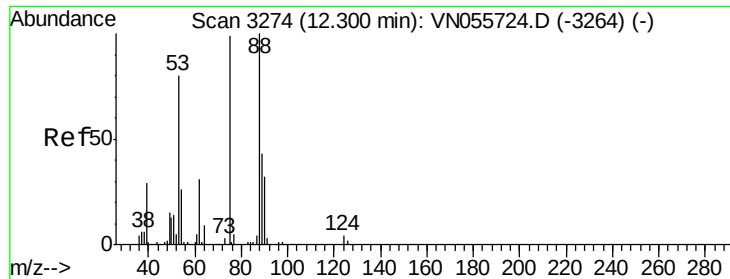
77 0.8 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

t-1,4-Dichloro-2-butene

Concen: 28.379 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

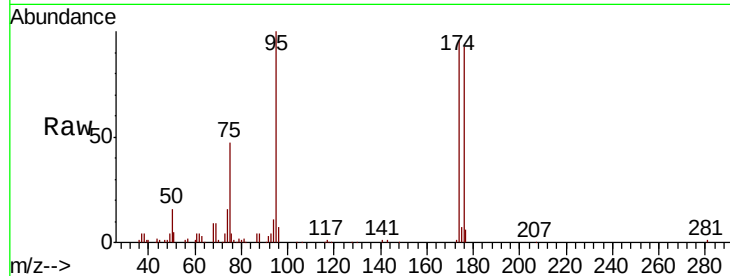
Tot Ion: 75 Resp: 43006

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

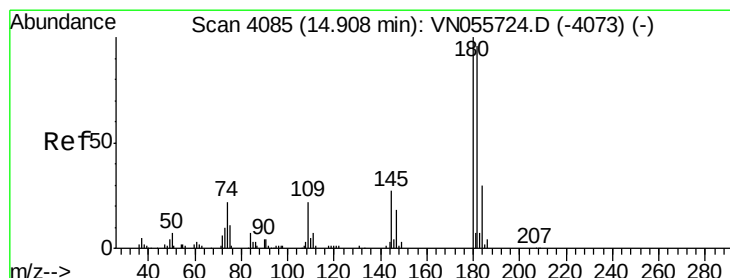
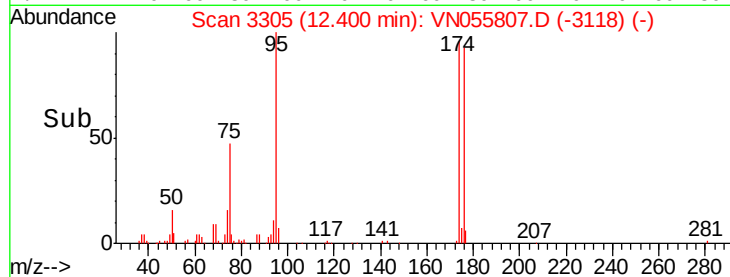
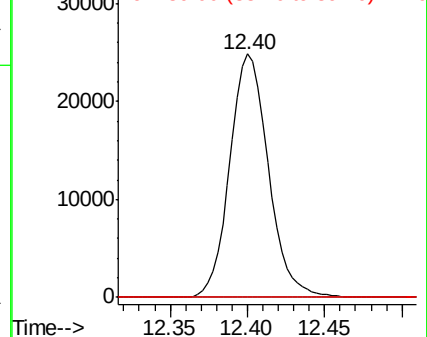
89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#89

1,2,4-Trichlorobenzene

Concen: 0.466 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.41 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

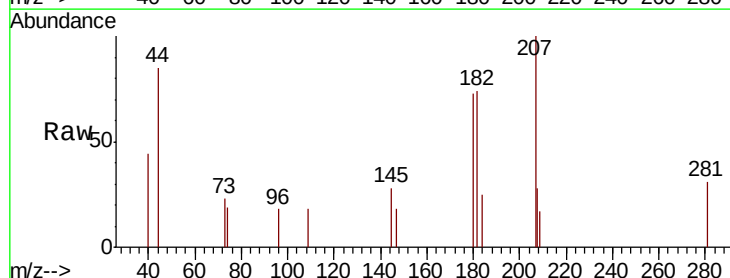
Tgt Ion: 180 Resp: 1514

Ion Ratio Lower Upper

180 100

182 99.2 76.1 114.1

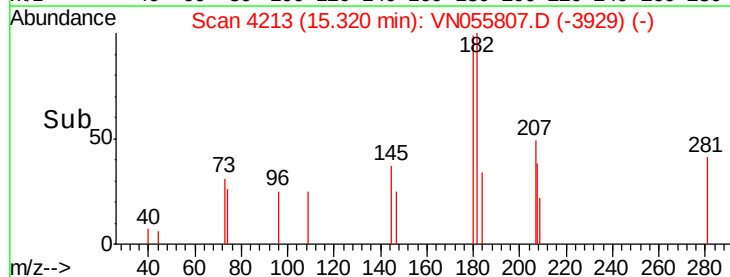
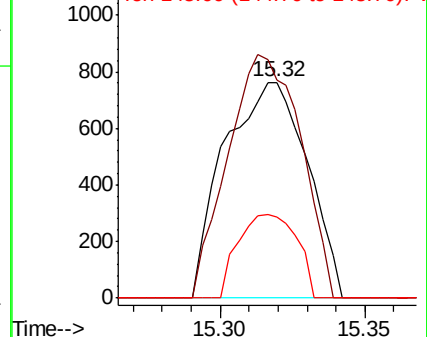
145 27.3 21.8 32.8

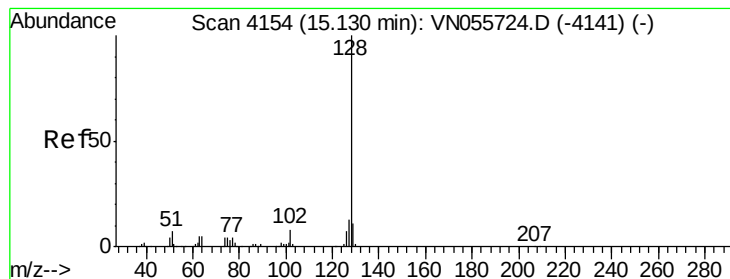


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.476 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

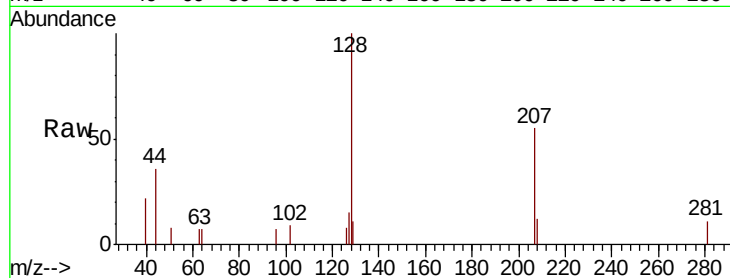
Tot Ion:128 Resp: 4222

Ion Ratio Lower Upper

128 100

127 8.0 10.0 15.0#

129 5.0 8.7 13.1#

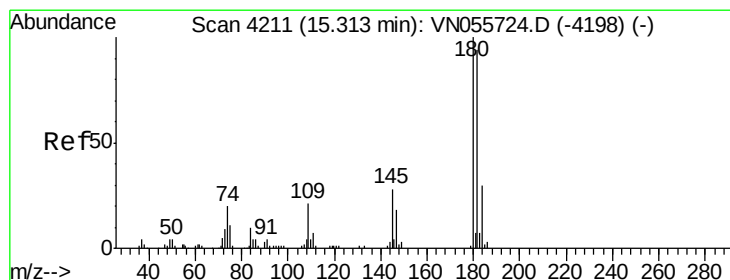
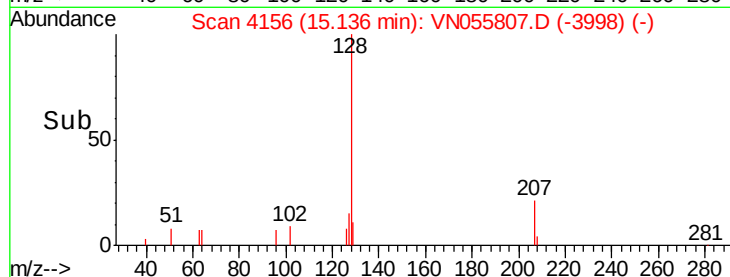
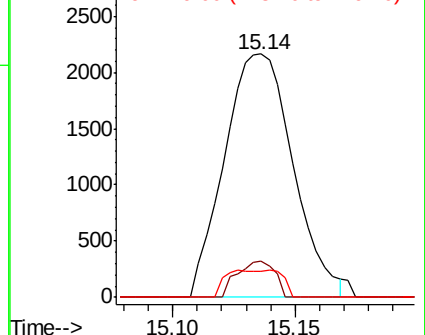


Abundance

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: 0.446 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN055807.D

Acq: 24 May 2019 19:53

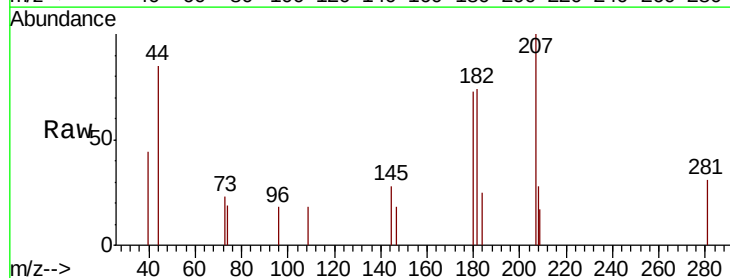
Tgt Ion:180 Resp: 1514

Ion Ratio Lower Upper

180 100

182 99.2 0.0 188.6

145 27.3 0.0 56.8



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

