

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055258.D
 Acq On : 25 Apr 2019 22:13
 Operator : JC/SP
 Sample : K2573-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Apr 26 05:25:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 05:19:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	68946	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	367069	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	288892	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	163516	30.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.17%
60) 4-Bromofluorobenzene	12.40	95	93323	21.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	70.13%
63) Toluene-d8	10.09	98	439178	32.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.67%

Target Compounds

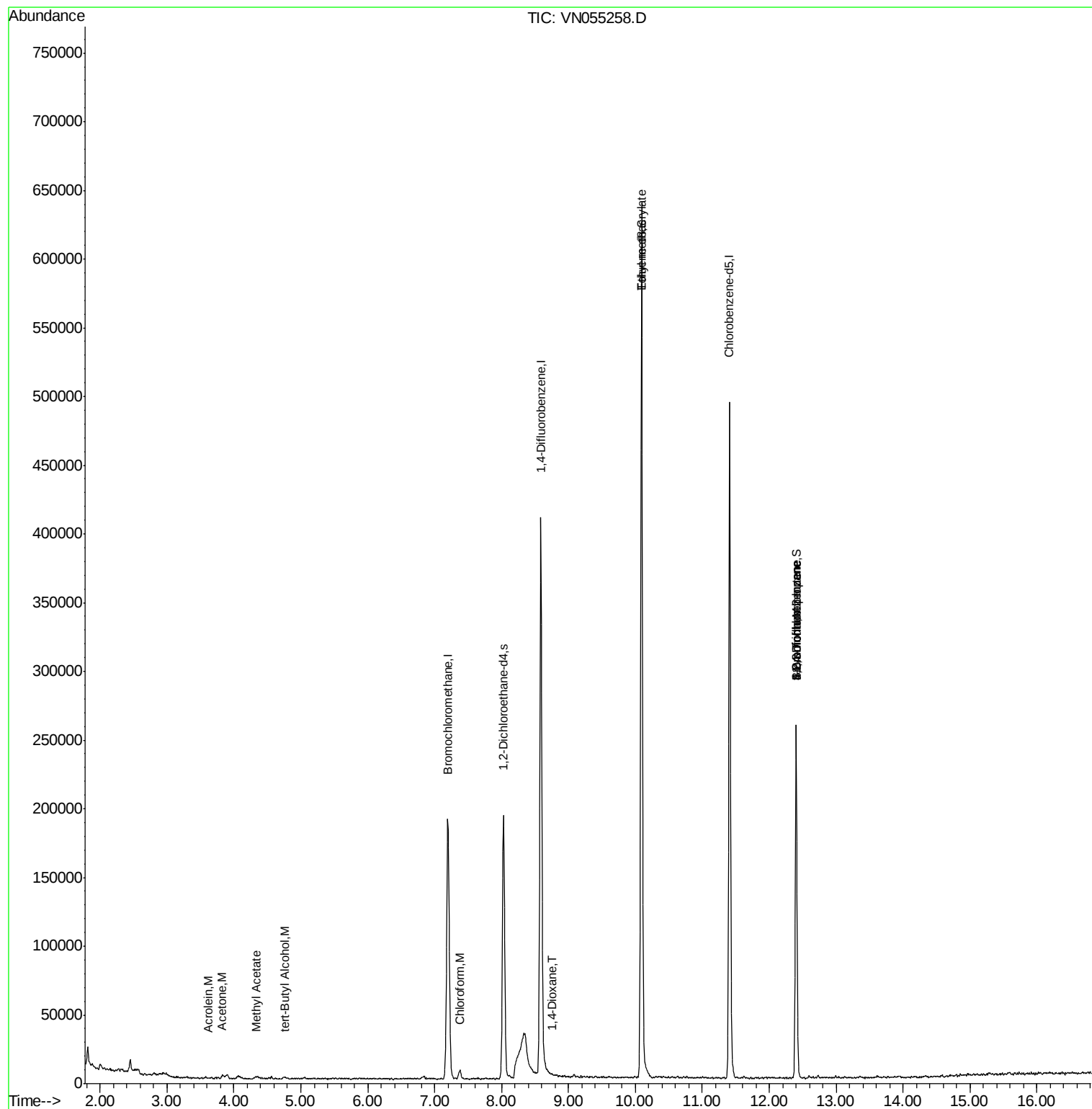
					Ovalue
12) Methyl Acetate	4.33	43	1552	0.286 ug/l #	88
13) Acrolein	3.62	56	60	0.249 ug/l #	15
15) Acetone	3.83	58	545	1.175 ug/l #	5
23) tert-Butyl Alcohol	4.75	59	172	0.438 ug/l #	100
25) Chloroform	7.37	83	3435	0.429 ug/l	89
45) 1,4-Dioxane	8.76	88	66	1.416 ug/l #	1
51) Ethyl methacrylate	10.09	69	1386	0.259 ug/l	87
56) Bromoform	12.40	173	843	0.316 ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	48020	12.025 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	48020	45.182 ug/l #	3

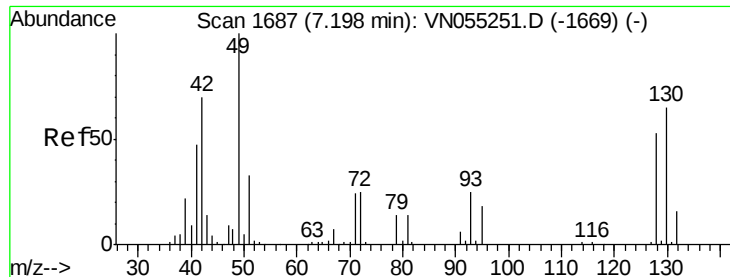
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN055258.D

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SPDES-1

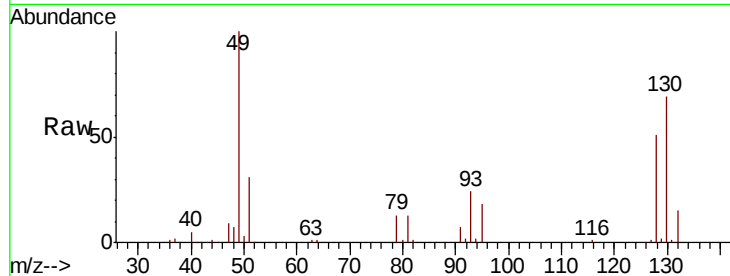
Tot Ion:128 Resp: 68946

Ion Ratio Lower Upper

128 100

49 199.1 0.0 485.0

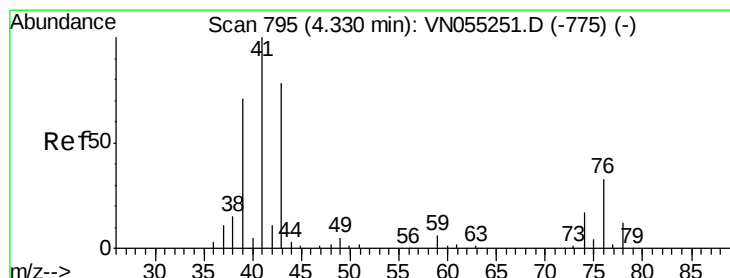
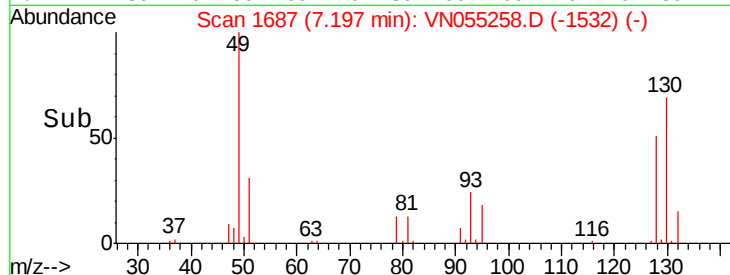
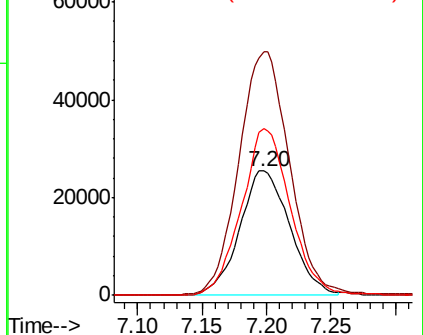
130 130.3 0.0 324.7



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: 0.286 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN055258.D

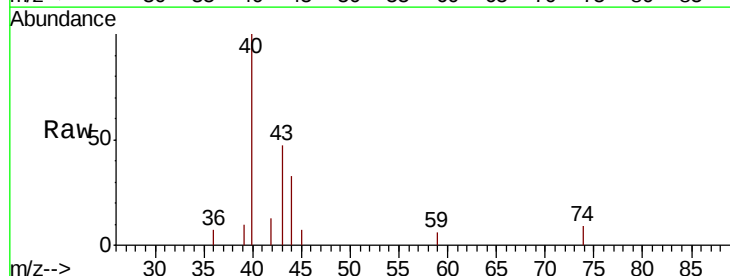
Acq: 25 Apr 2019 22:13

Tgt Ion: 43 Resp: 1552

Ion Ratio Lower Upper

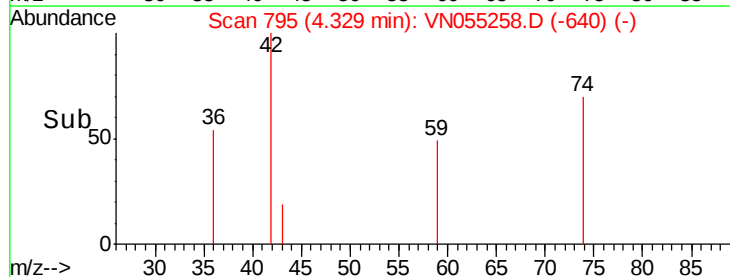
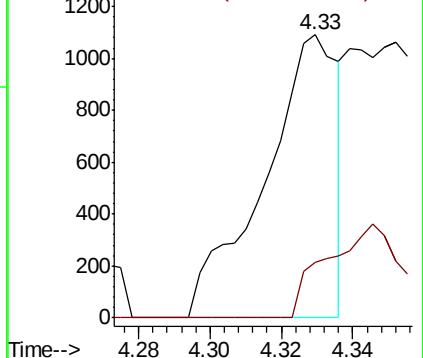
43 100

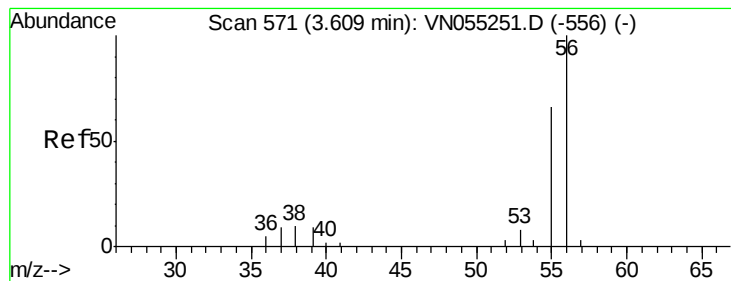
74 16.3 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.249 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

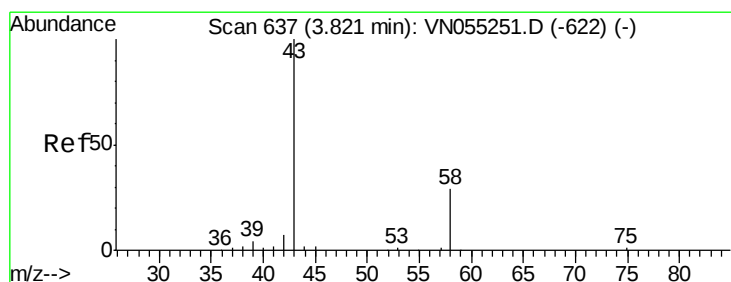
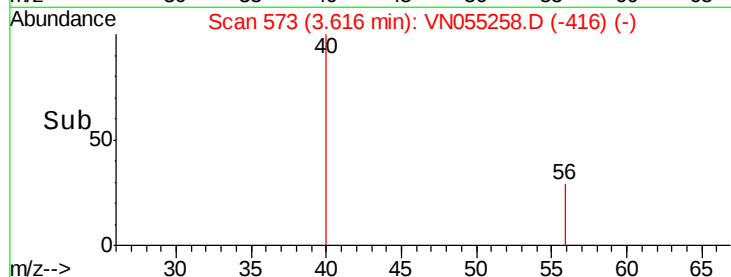
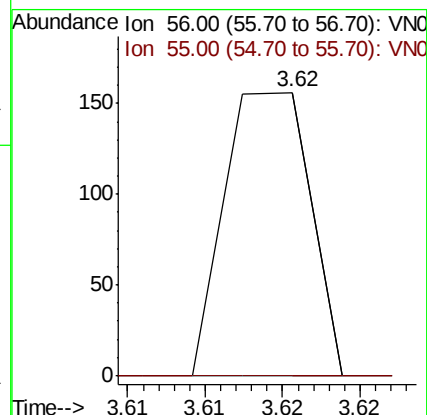
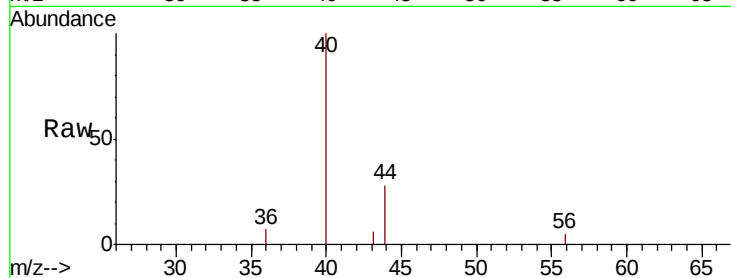
SPDES-1

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 0.0 54.9 82.3#



#15

Acetone

Concen: 1.175 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055258.D

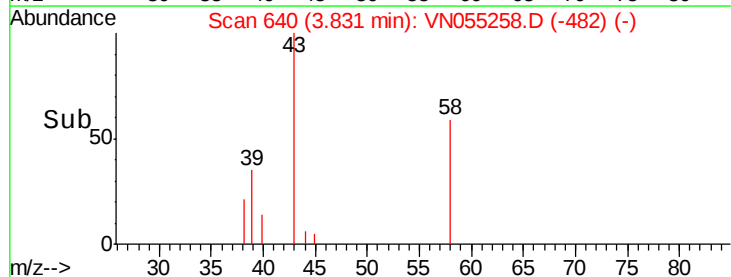
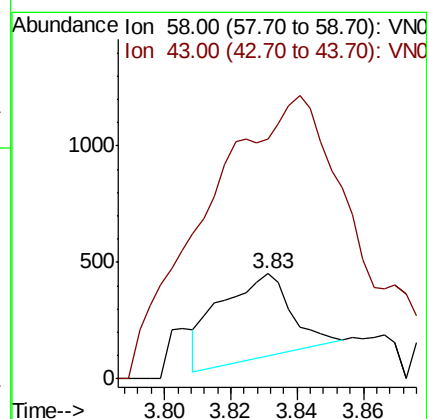
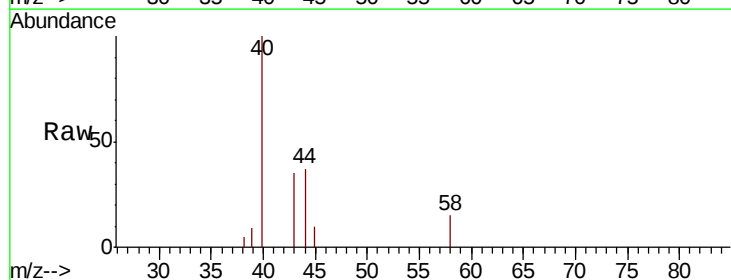
Acq: 25 Apr 2019 22:13

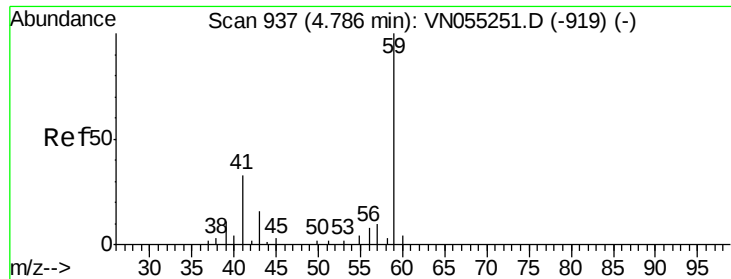
Tgt Ion: 58 Resp: 545

Ion Ratio Lower Upper

58 100

43 143.0 278.2 417.2#

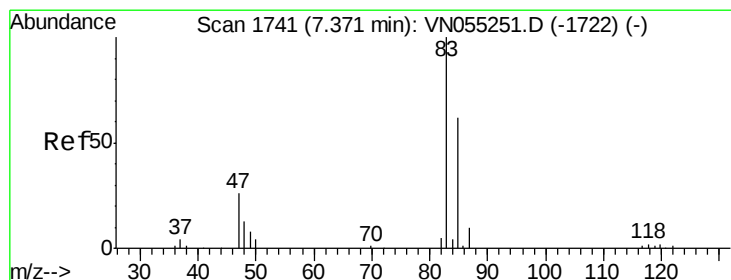
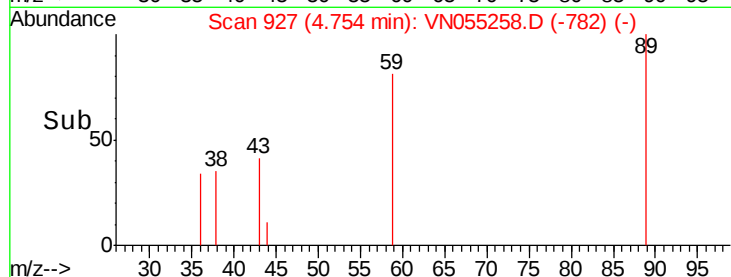
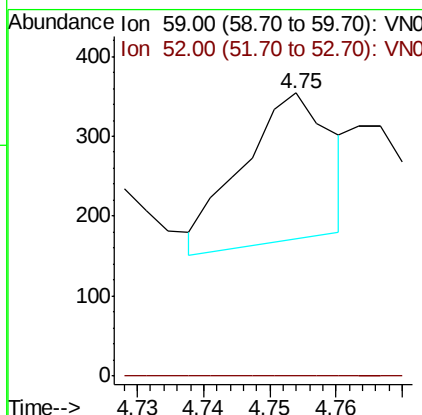
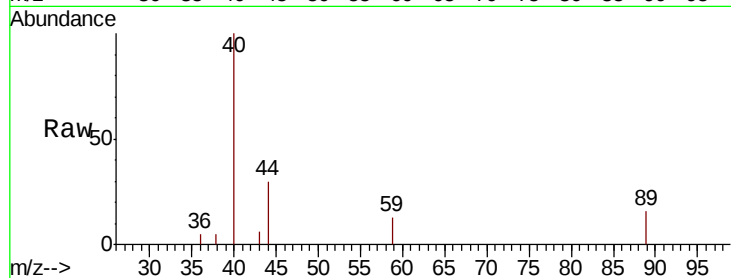




#23
tert-Butyl Alcohol
Concen: 0.438 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.03 min
Lab File: VN055258.D
Acq: 25 Apr 2019 22:13

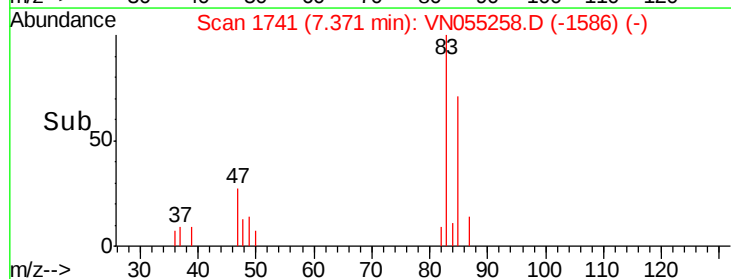
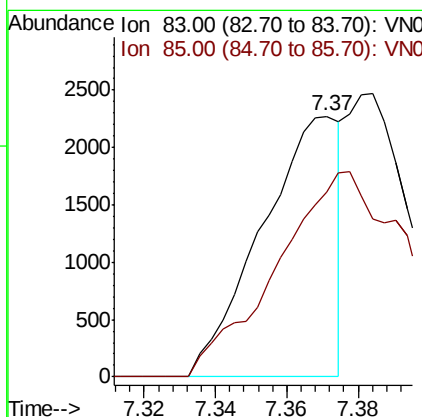
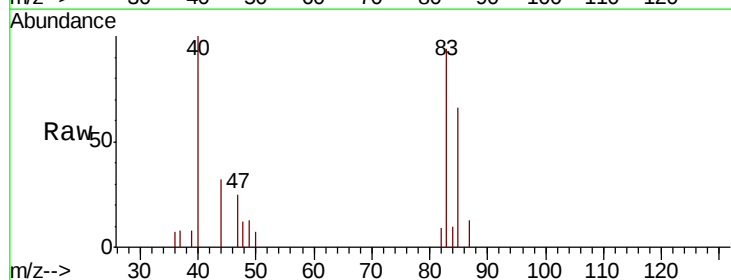
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

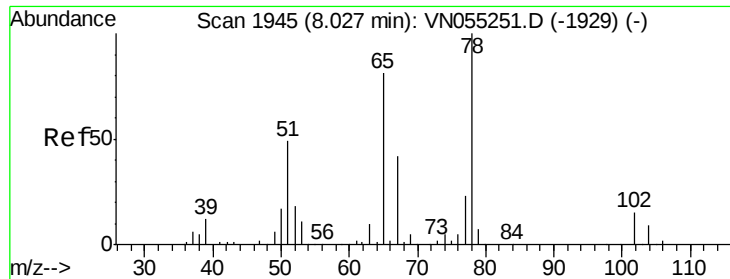
Tot Ion: 59 Resp: 172
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.429 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055258.D
Acq: 25 Apr 2019 22:13

Tgt Ion: 83 Resp: 3435
Ion Ratio Lower Upper
83 100
85 70.9 49.7 74.5





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

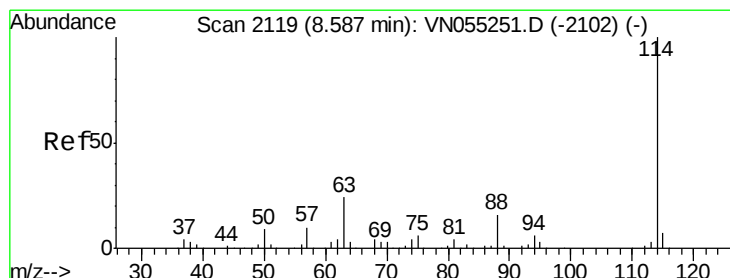
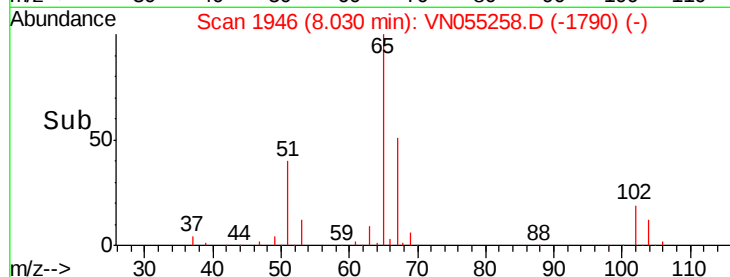
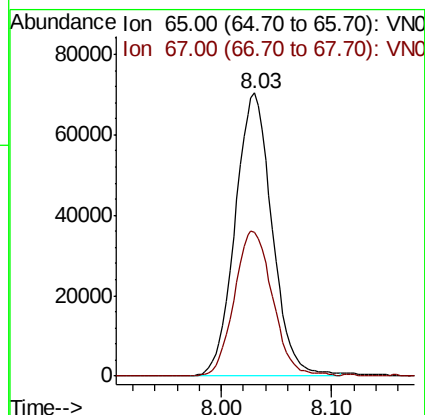
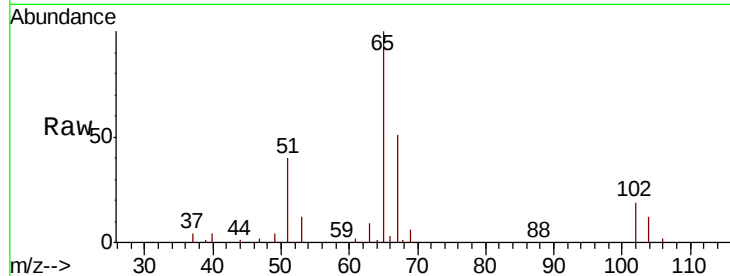
SPDES-1

Tot Ion: 65 Resp: 163516

Ion Ratio Lower Upper

65 100

67 52.7 41.9 62.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

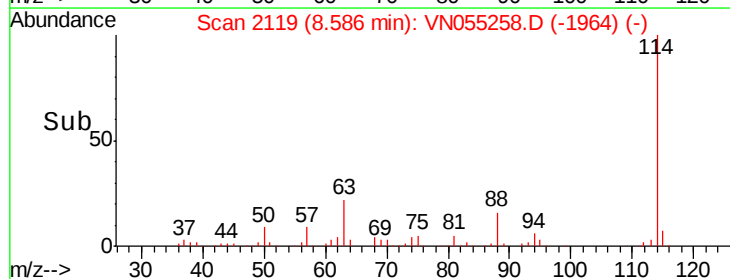
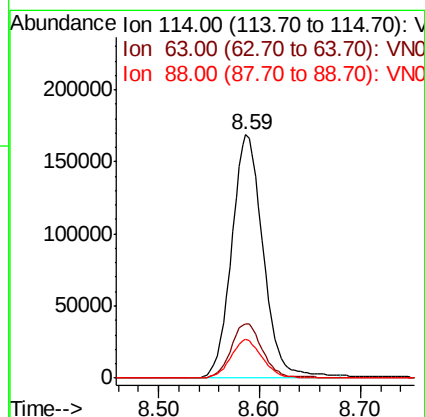
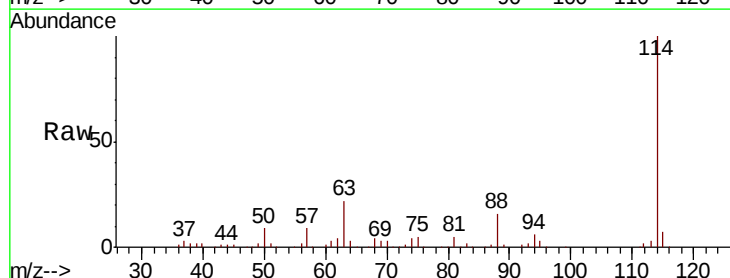
Tgt Ion: 114 Resp: 367069

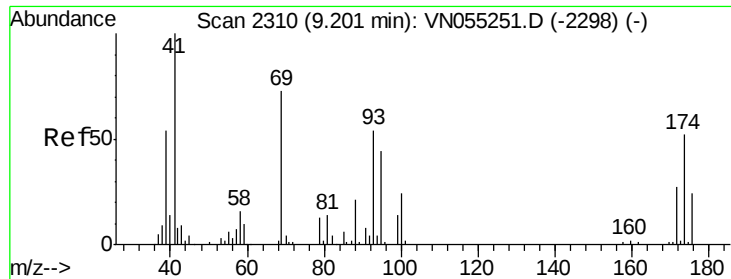
Ion Ratio Lower Upper

114 100

63 22.3 18.2 27.2

88 15.8 12.6 18.8

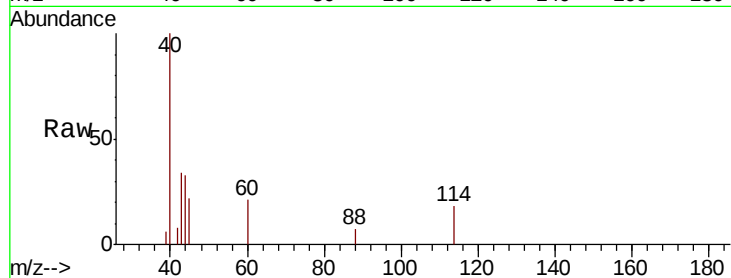




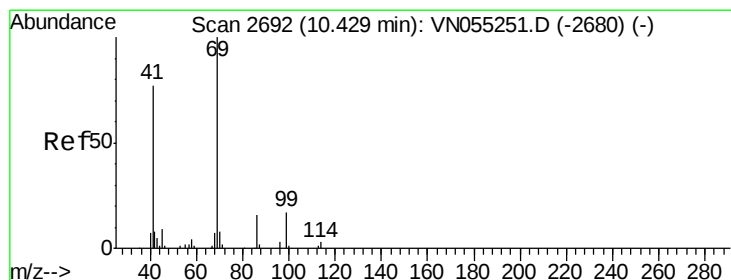
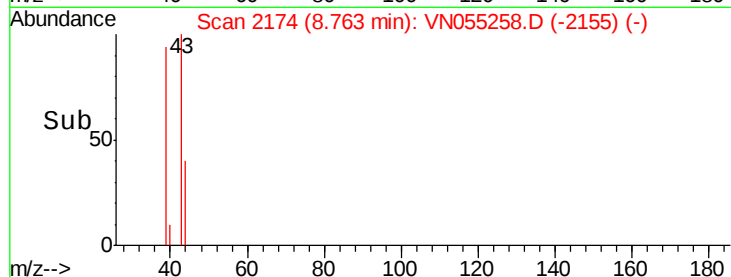
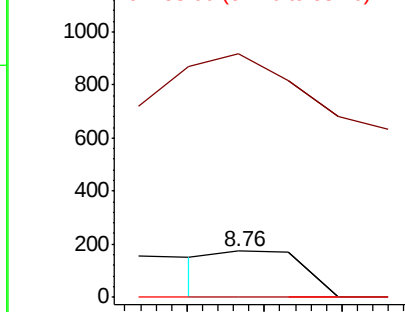
#45
 1,4-Dioxane
 Concen: 1.416 ug/l
 RT: 8.76 min Scan# 2174
 Delta R.T. -0.44 min
 Lab File: VN055258.D
 Acq: 25 Apr 2019 22:13

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion: 88 Resp: 66
 Ion Ratio Lower Upper
 88 100
 43 298.5 29.4 44.0#
 58 0.0 62.4 93.6#

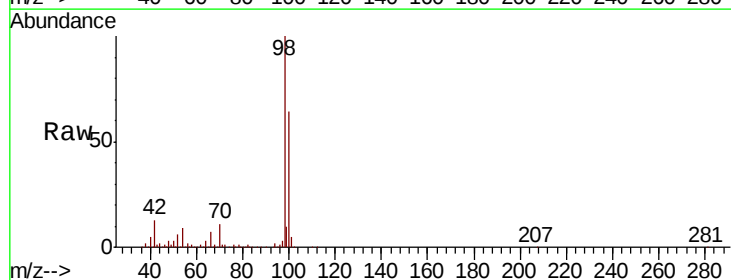


Abundance Ion 88.00 (87.70 to 88.70): VNO
 Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

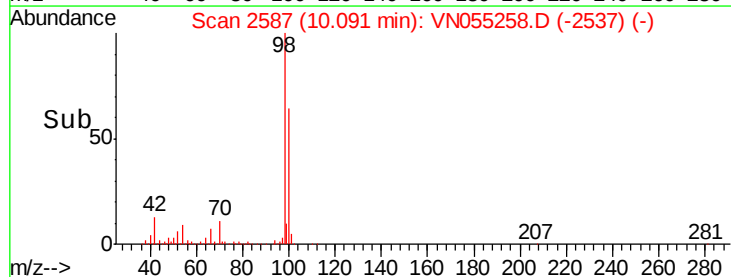
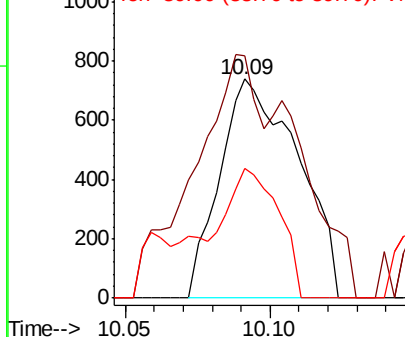


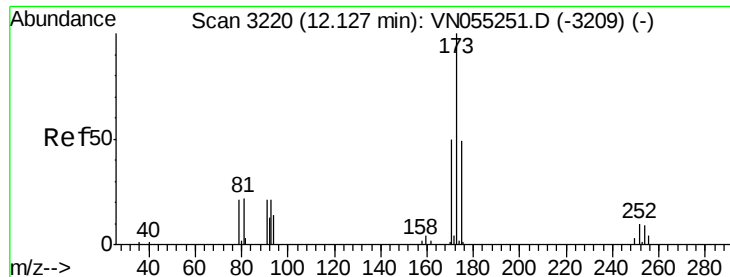
#51
 Ethyl methacrylate
 Concen: 0.259 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.34 min
 Lab File: VN055258.D
 Acq: 25 Apr 2019 22:13

Tgt Ion: 69 Resp: 1386
 Ion Ratio Lower Upper
 69 100
 41 80.1 38.7 116.1
 39 59.3 19.9 59.6



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





#56

Bromoform

Concen: 0.316 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

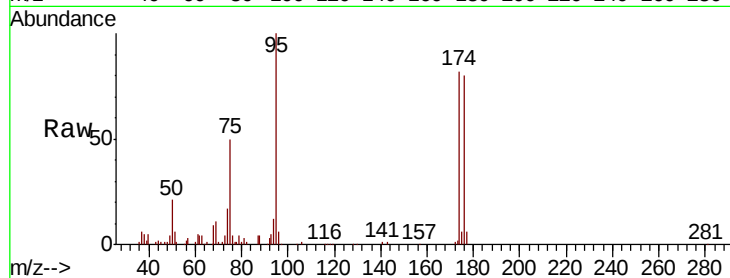
Tot Ion:173 Resp: 843

Ion Ratio Lower Upper

173 100

175 697.5 37.7 56.5#

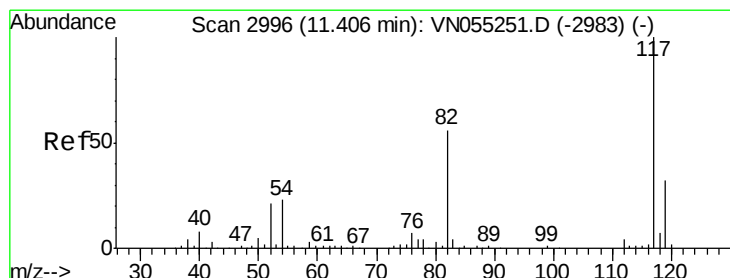
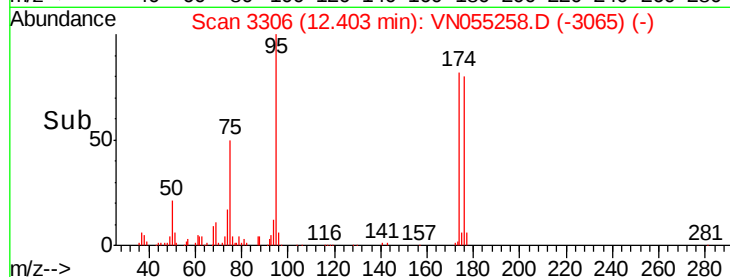
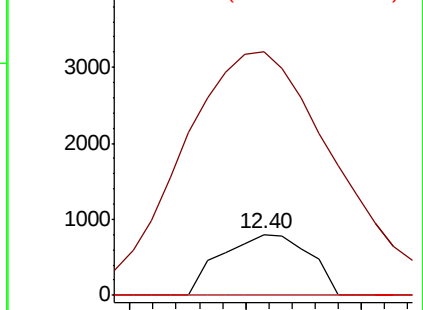
254 0.0 7.8 11.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

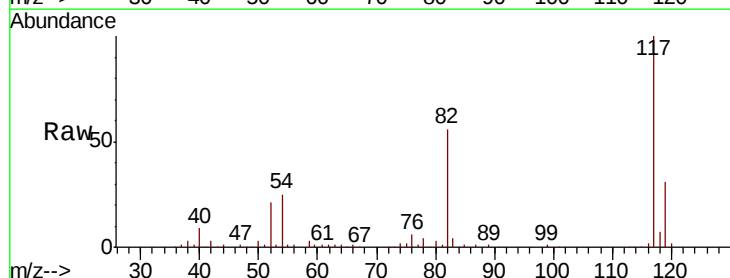
Tgt Ion:117 Resp: 288892

Ion Ratio Lower Upper

117 100

82 56.7 45.3 67.9

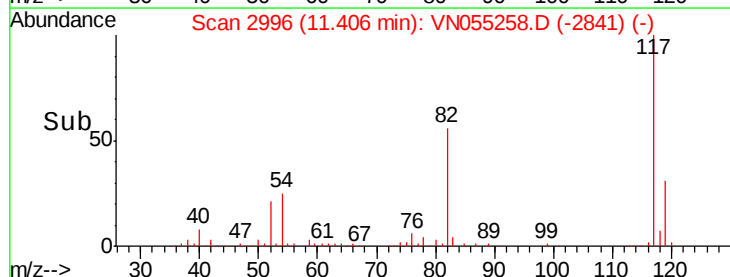
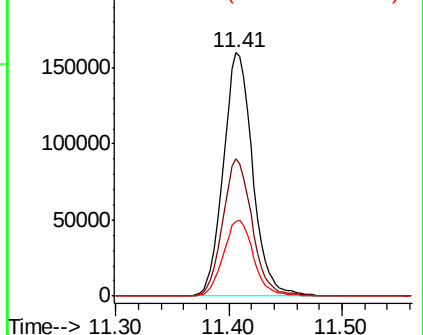
119 32.2 25.4 38.0

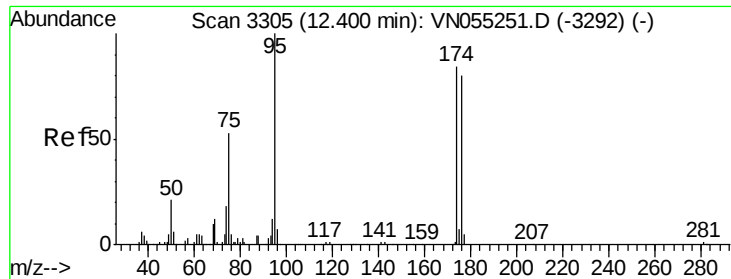


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

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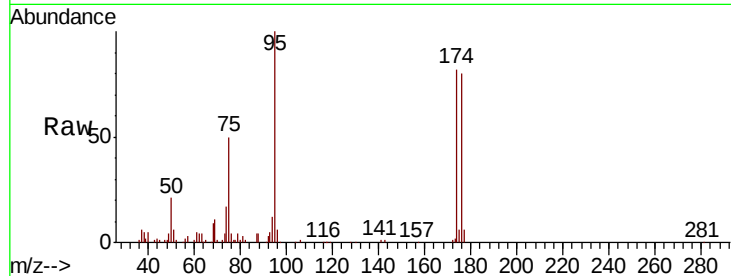
Tot Ion: 95 Resp: 93323

Ion Ratio Lower Upper

95 100

174 84.7 68.1 102.1

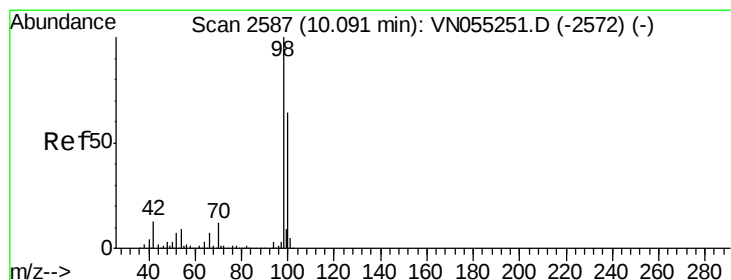
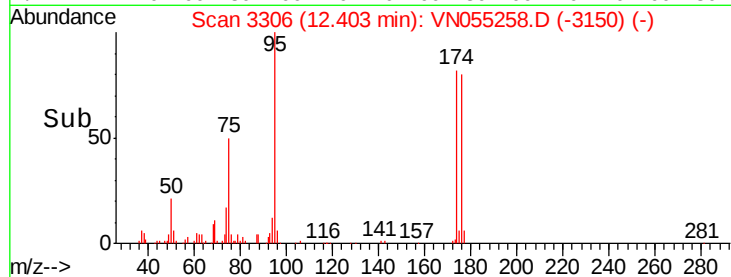
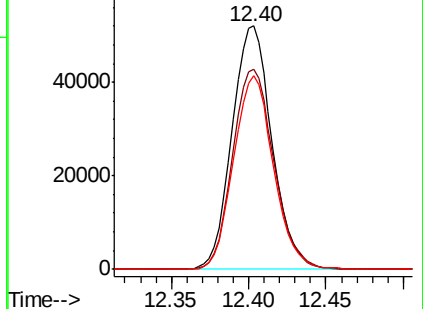
176 79.5 65.8 98.6



Abundance Ion 95.00 (94.70 to 95.70): VN055251.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN055251.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN055251.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055258.D

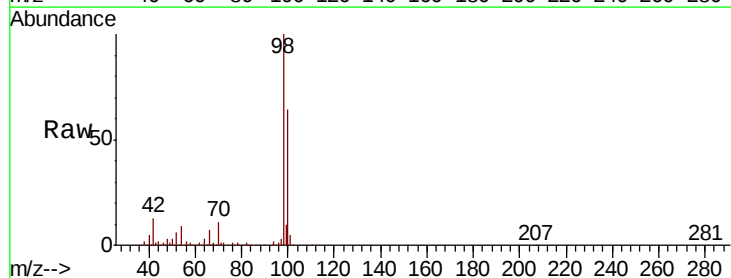
Acq: 25 Apr 2019 22:13

Tgt Ion: 98 Resp: 439178

Ion Ratio Lower Upper

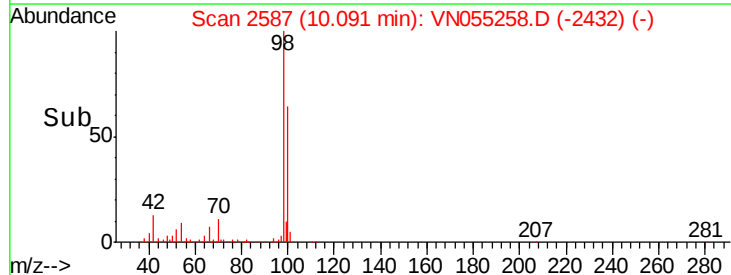
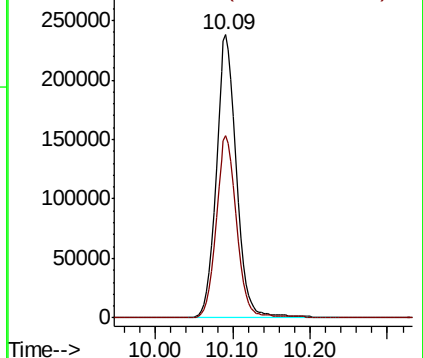
98 100

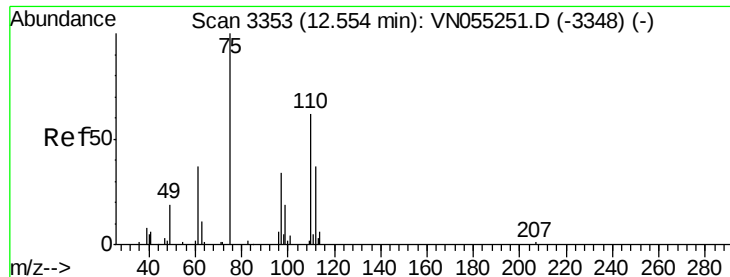
100 64.2 50.0 75.0



Abundance Ion 98.00 (97.70 to 98.70): VN055251.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN055251.D (-2572) (-)





#72

1,2,3-Trichloropropane

Concen: 12.025 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

Instrument :

MSVOA_N

ClientSampleId :

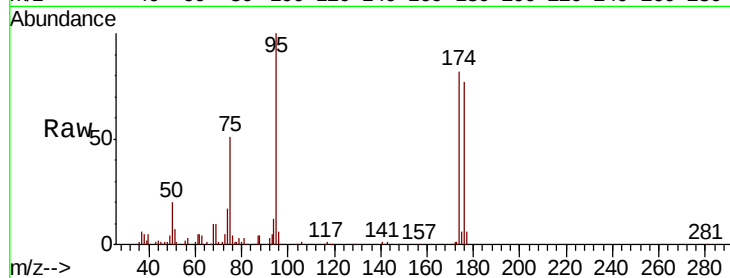
SPDES-1

Tot Ion: 75 Resp: 48020

Ion Ratio Lower Upper

75 100

77 0.7 0.0 410.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

30000

25000

20000

15000

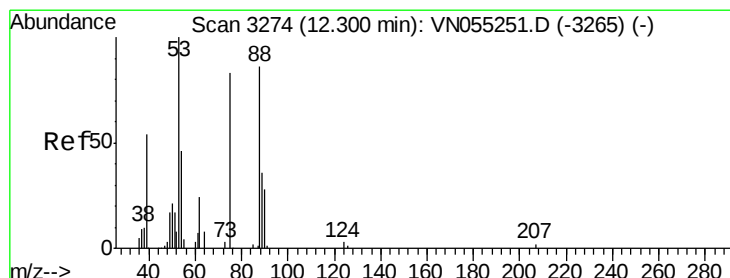
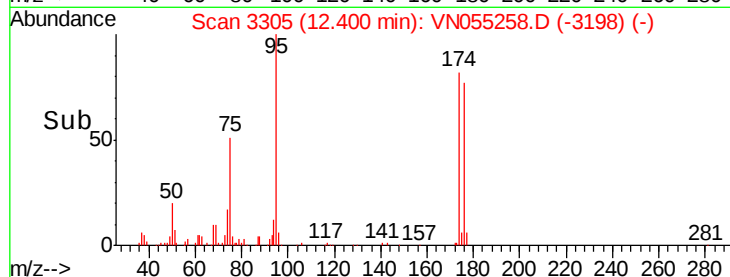
10000

5000

0

12.35 12.40 12.45

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 45.182 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055258.D

Acq: 25 Apr 2019 22:13

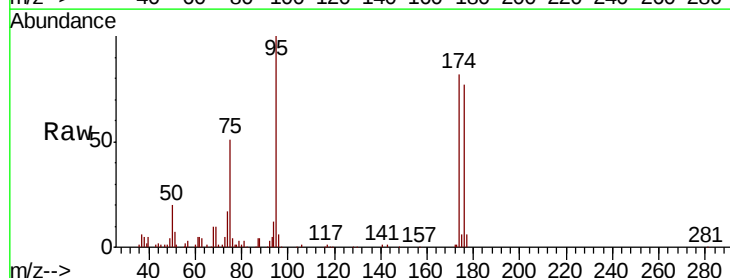
Tgt Ion: 75 Resp: 48020

Ion Ratio Lower Upper

75 100

53 0.0 59.5 178.5#

89 0.0 23.1 69.2#



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

30000

25000

20000

15000

10000

5000

0

12.35 12.40 12.45

Time-->

