

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051831.D
 Acq On : 12 Oct 2018 14:37
 Operator : MD\SY
 Sample : J5446-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Oct 12 16:09:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	127469	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	710731	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	565742	30.00	ug/l	0.00

System Monitoring Compounds

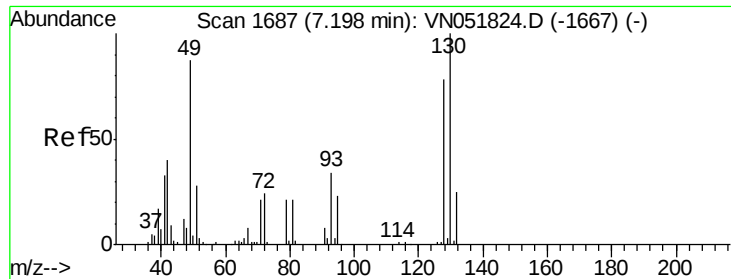
27) 1,2-Dichloroethane-d4	8.03	65	241742	31.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.90%
60) 4-Bromofluorobenzene	12.40	95	192956	23.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.83%
63) Toluene-d8	10.09	98	792435	32.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.53%

Target Compounds

						Qvalue
13) Acrolein	3.62	56	126	0.52	ug/l #	64
15) Acetone	4.08	58	265	0.66	ug/l	91
16) Carbon Disulfide	4.06	76	4819	0.31	ug/l	96
17) Allyl chloride	4.08	41	2250	0.32	ug/l	82
25) Chloroform	7.37	83	4466	0.35	ug/l	100
45) 1,4-Dioxane	9.21	88	59	0.88	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.09	63	900	0.28	ug/l #	1
56) Bromoform	12.40	173	1180	0.22	ug/l #	1
59) 2-Hexanone	10.76	43	1336	0.52	ug/l #	89
77) t-1,4-Dichloro-2-butene	12.40	75	98435	57.87	ug/l #	12
89) 1,2,4-Trichlorobenzene	15.32	180	3624	8.12	ug/l	89
91) Naphthalene	15.13	128	9112	9.01	ug/l	95
92) 1,2,3-Trichlorobenzene	15.32	180	3624	0.57	ug/l	87

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

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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

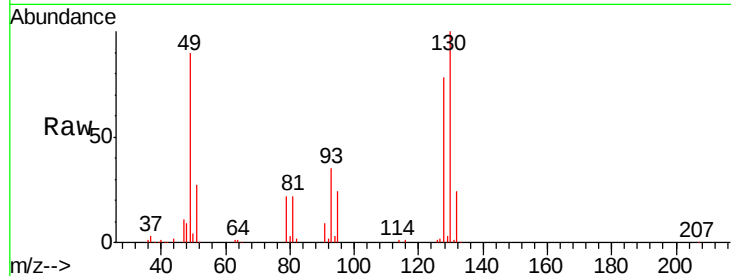
Tgt Ion:128 Resp: 127469

Ion Ratio Lower Upper

128 100

49 114.4 0.0 403.3

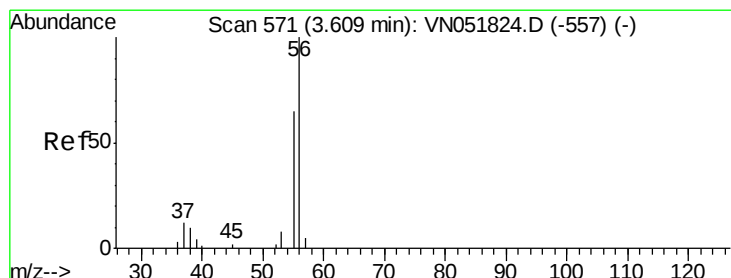
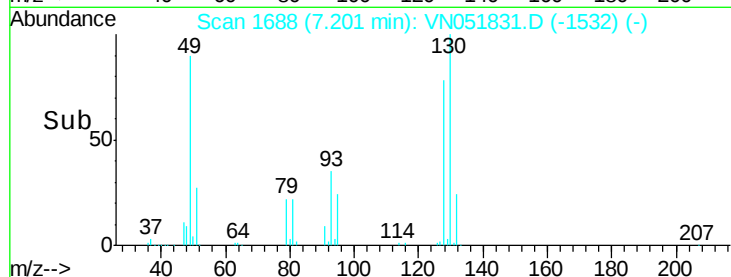
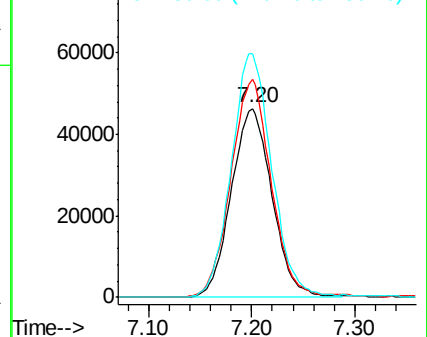
130 128.1 0.0 326.0



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



#13

Acrolein

Concen: 0.52 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN051831.D

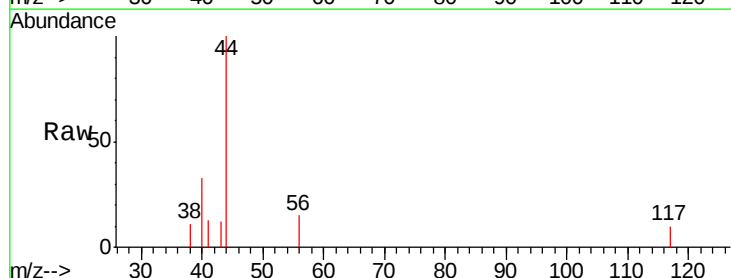
Acq: 12 Oct 2018 14:37

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

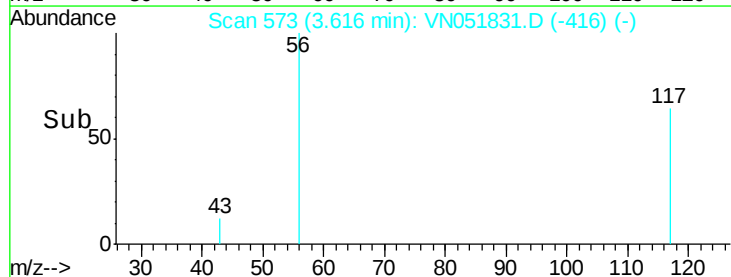
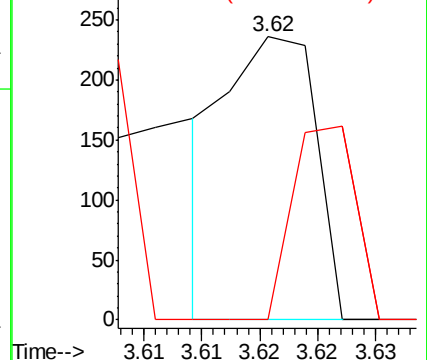
56 100

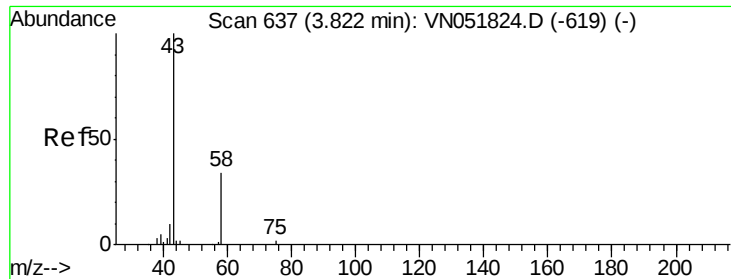
55 48.4 64.0 96.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 0.66 ug/l

RT: 4.08 min Scan# 717

Delta R.T. 0.26 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

Instrument :

MSVOA_N

ClientSampled :

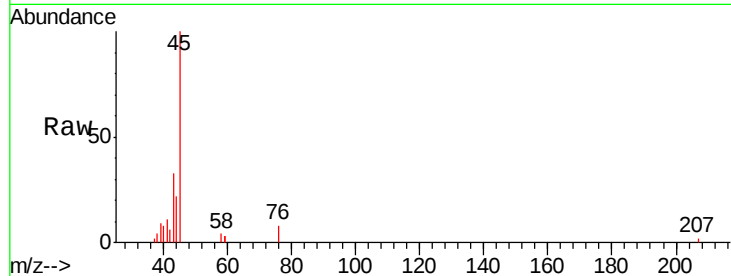
SPDES-1

Tgt Ion: 58 Resp: 265

Ion Ratio Lower Upper

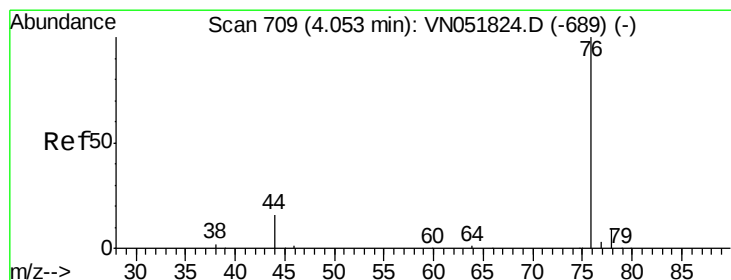
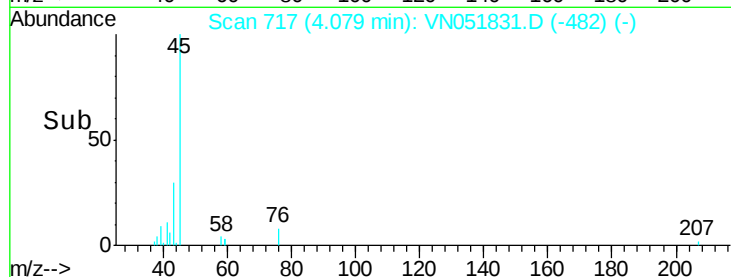
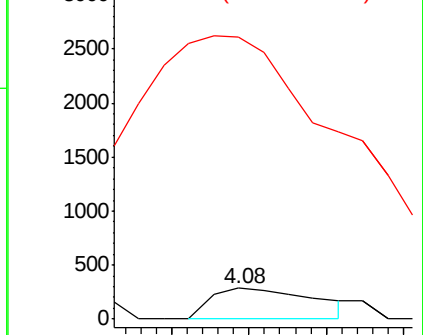
58 100

43 308.0 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.31 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051831.D

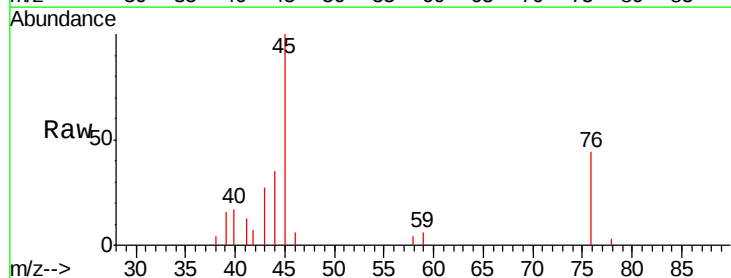
Acq: 12 Oct 2018 14:37

Tgt Ion: 76 Resp: 4819

Ion Ratio Lower Upper

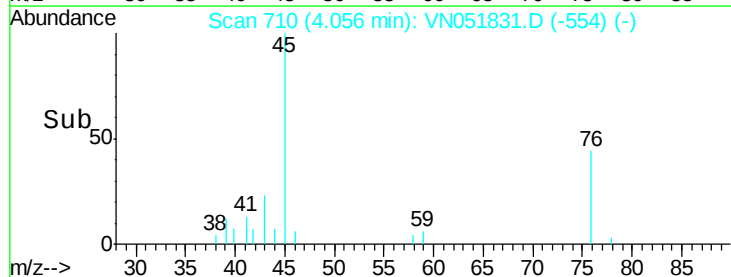
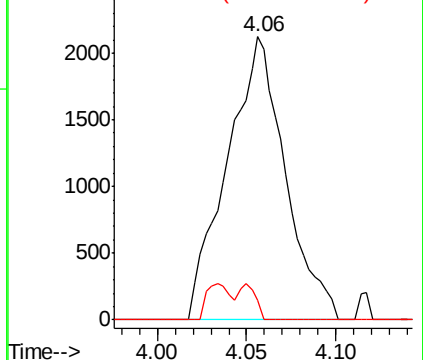
76 100

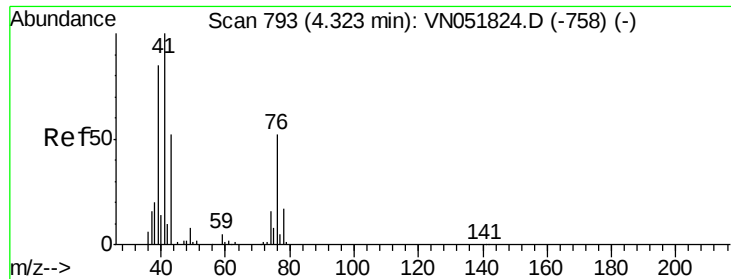
78 7.1 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

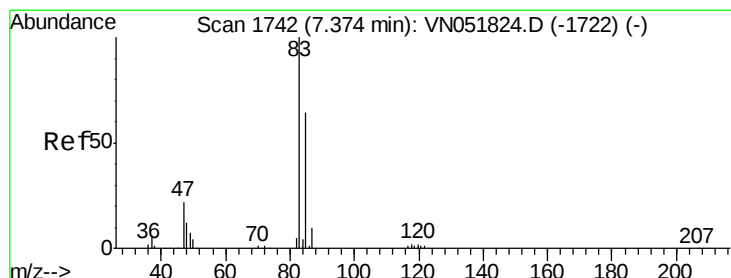
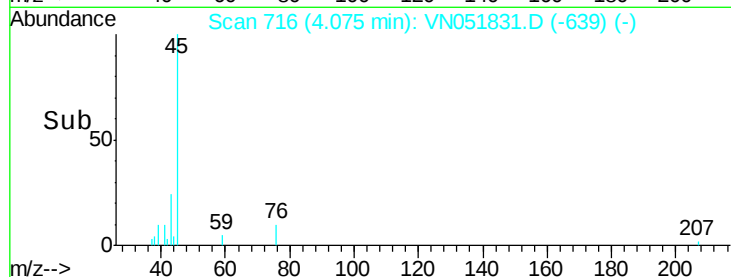
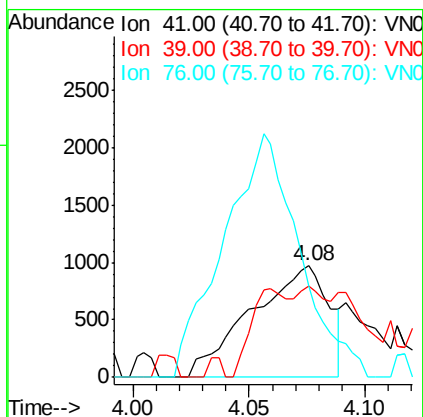
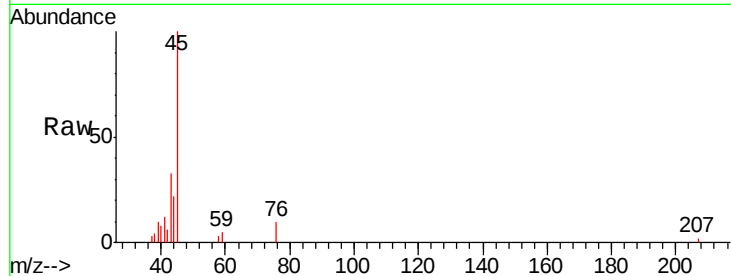




#17
 Allyl chloride
 Concen: 0.32 ug/l
 RT: 4.08 min Scan# 716
 Delta R.T. -0.25 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

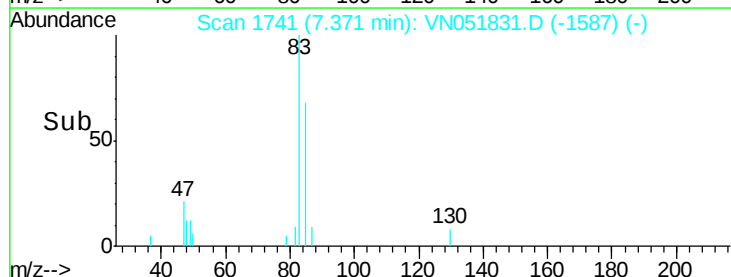
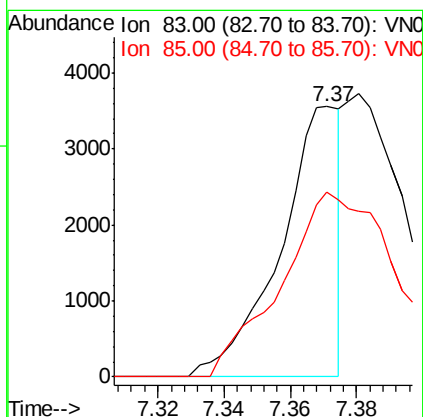
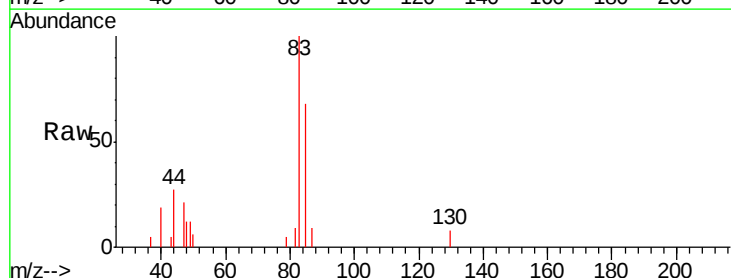
Instrument :
 MSVOA_N
 ClientSampled :
 SPDES-1

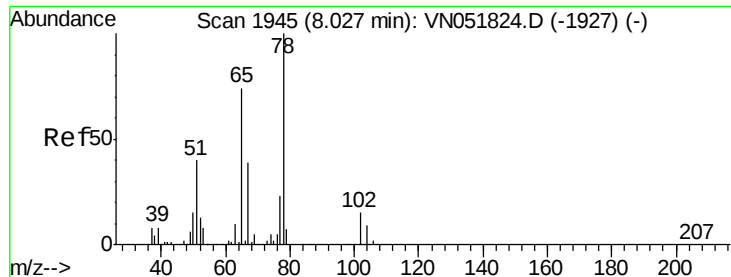
Tgt Ion: 41 Resp: 2250
 Ion Ratio Lower Upper
 41 100
 39 81.5 32.6 97.8
 76 49.3 20.2 60.5



#25
 Chloroform
 Concen: 0.35 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

Tgt Ion: 83 Resp: 4466
 Ion Ratio Lower Upper
 83 100
 85 68.3 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

Instrument :

MSVOA_N

ClientSampleId :

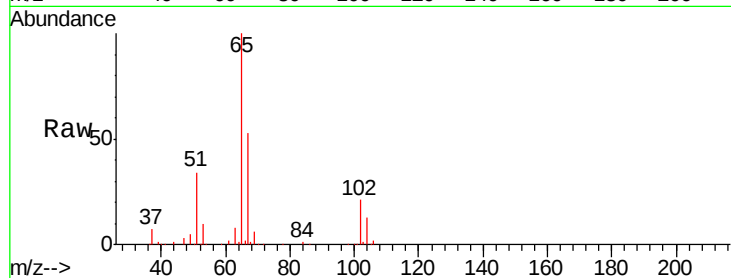
SPDES-1

Tgt Ion: 65 Resp: 241742

Ion Ratio Lower Upper

65 100

67 52.1 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051824.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051824.D (-1927) (-)

8.03

100000

80000

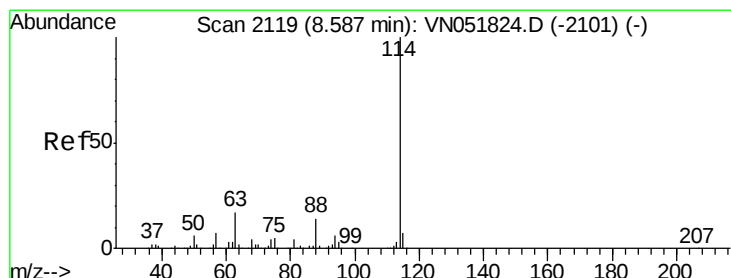
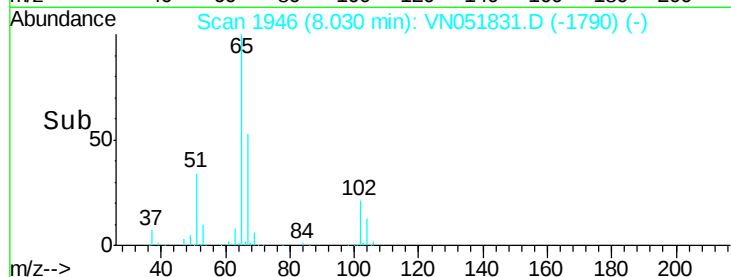
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

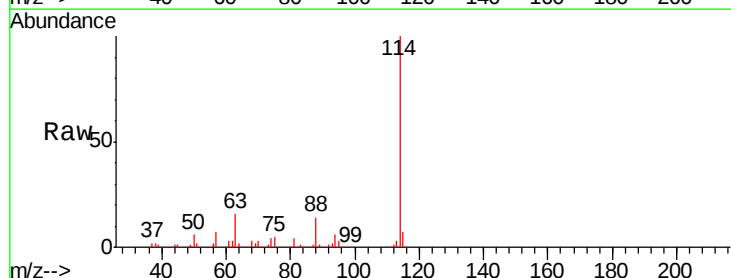
Tgt Ion: 114 Resp: 710731

Ion Ratio Lower Upper

114 100

63 16.6 16.2 24.2

88 14.1 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051824.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051824.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051824.D (-2101) (-)

8.59

400000

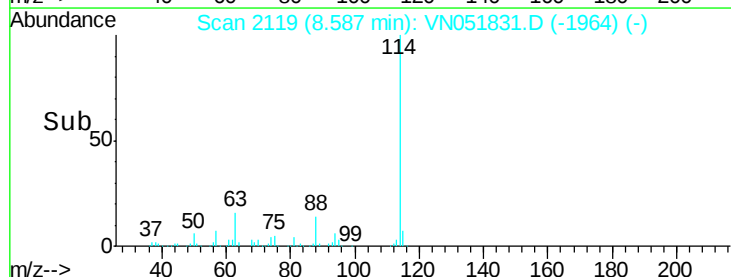
300000

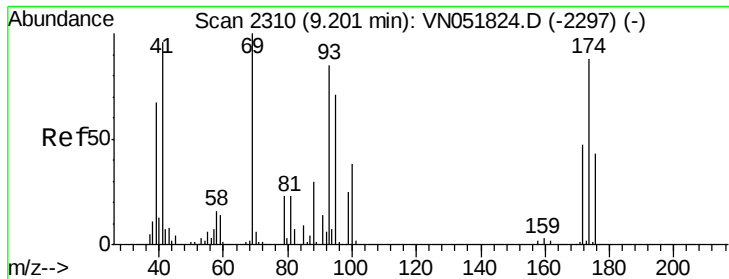
200000

100000

0

Time--> 8.50 8.55 8.60 8.65

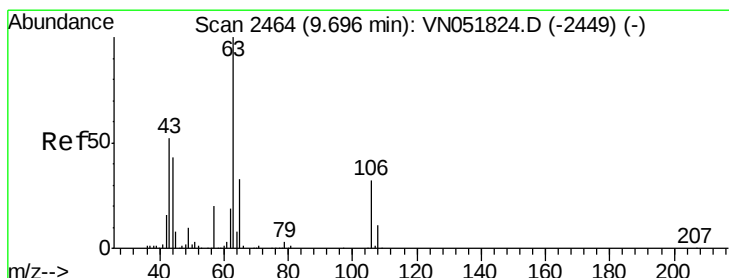
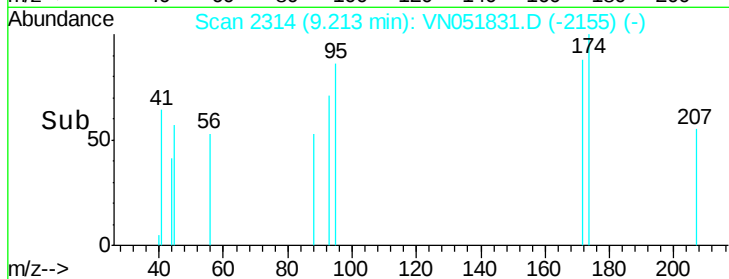
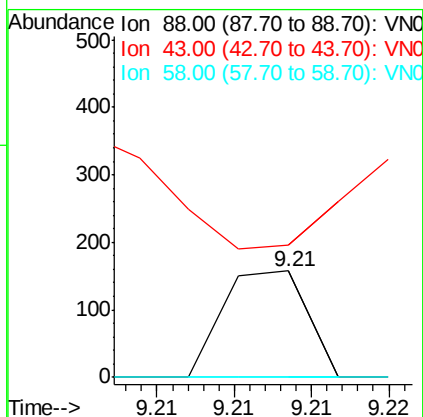
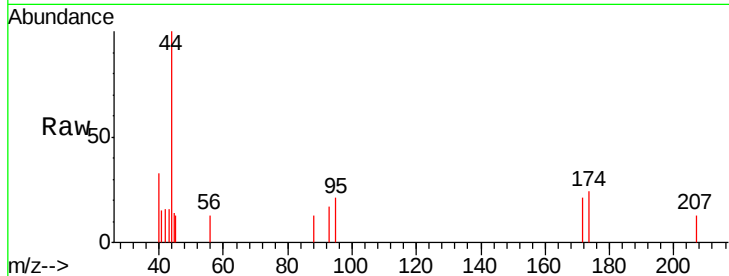




#45
 1,4-Dioxane
 Concen: 0.88 ug/l
 RT: 9.21 min Scan# 2314
 Delta R.T. 0.01 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

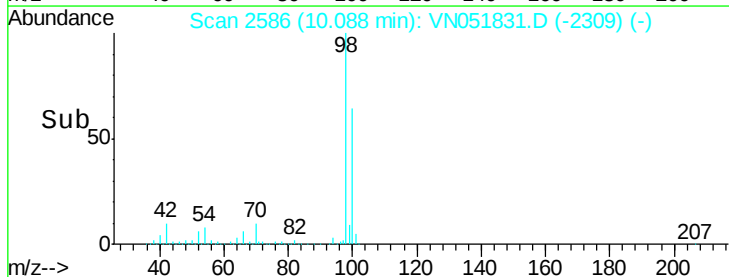
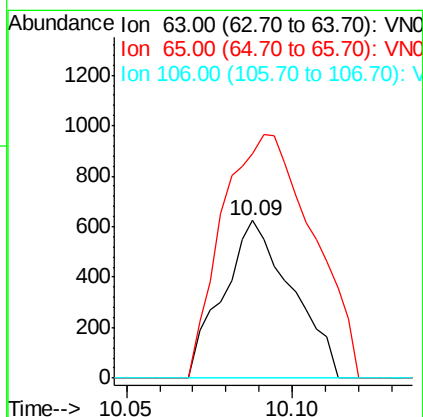
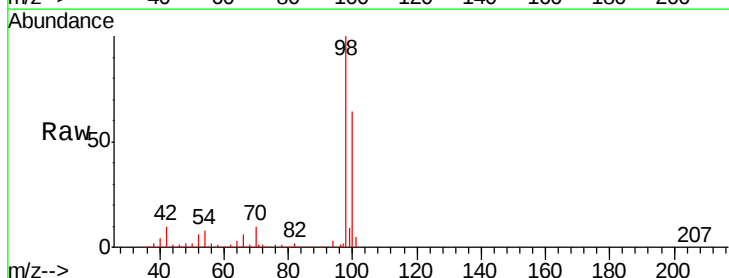
Instrument :
 MSVOA_N
 ClientSampled :
 SPDES-1

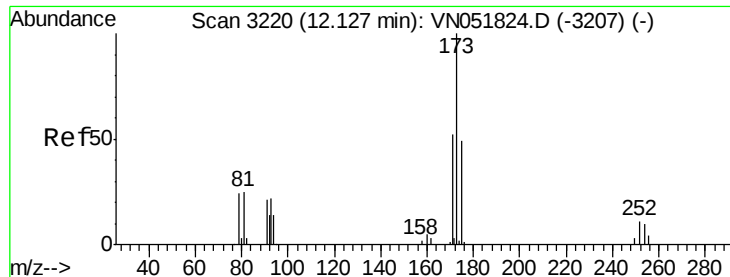
Tgt Ion: 88 Resp: 59
 Ion Ratio Lower Upper
 88 100
 43 135.6 26.2 39.2#
 58 0.0 65.6 98.4#



#55
 2-Chloroethyl vinyl ether
 Concen: 0.28 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.39 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

Tgt Ion: 63 Resp: 900
 Ion Ratio Lower Upper
 63 100
 65 203.8 25.4 38.0#
 106 0.0 21.2 31.8#





#56

Bromoform

Concen: 0.22 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

Instrument :

MSVOA_N

ClientSampled :

SPDES-1

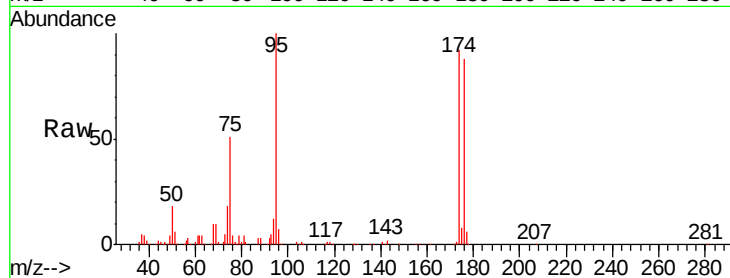
Tgt Ion:173 Resp: 1180

Ion Ratio Lower Upper

173 100

175 1199.9 35.8 53.8#

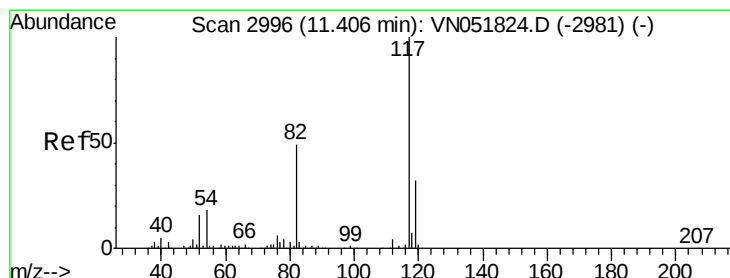
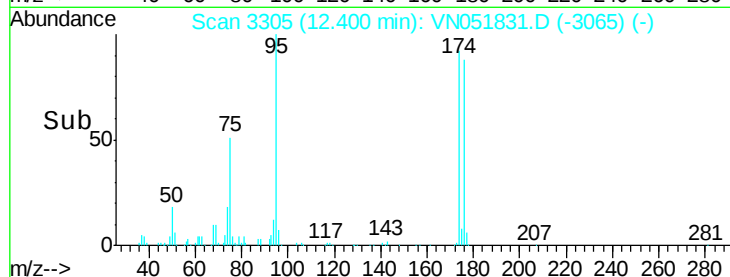
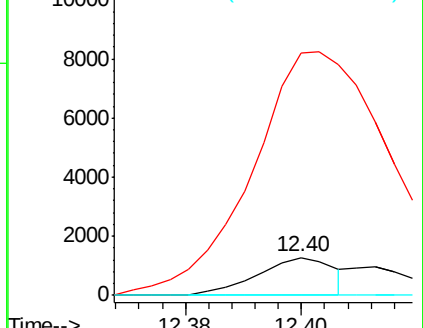
254 0.0 8.6 13.0#



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: 30.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

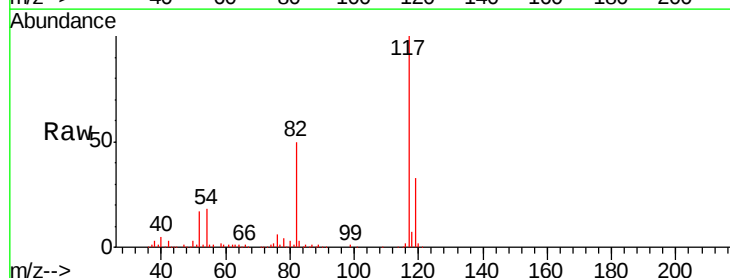
Tgt Ion:117 Resp: 565742

Ion Ratio Lower Upper

117 100

82 50.7 44.1 66.1

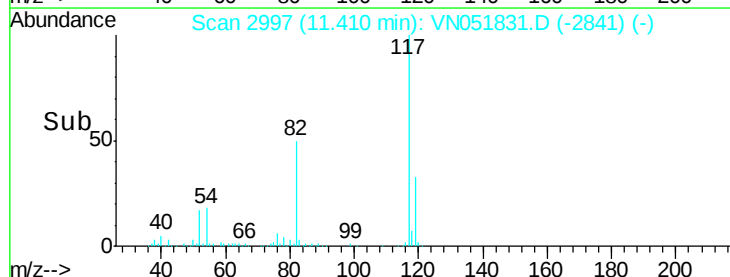
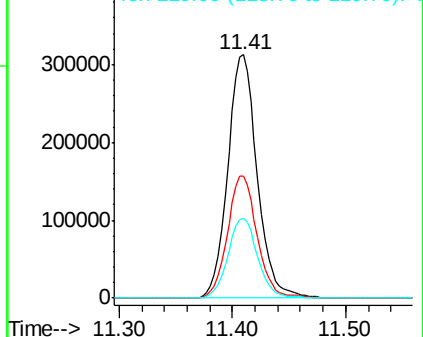
119 33.1 25.8 38.8

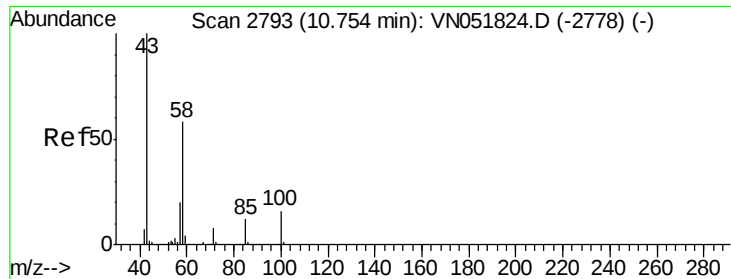


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

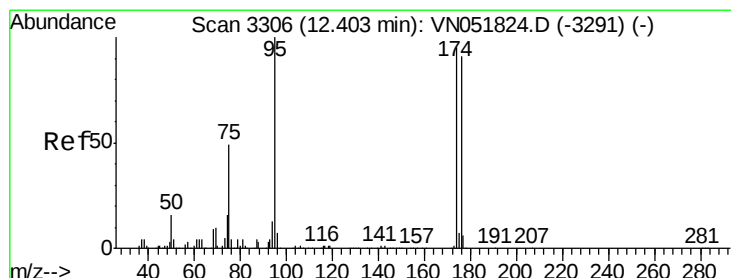
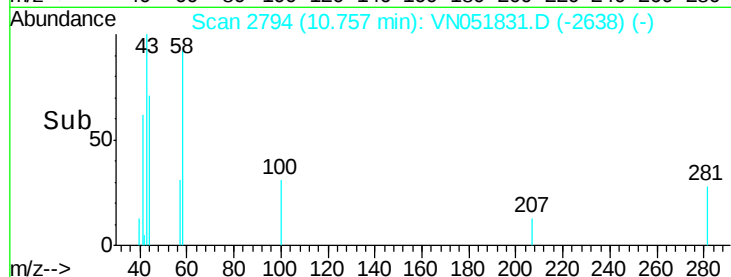
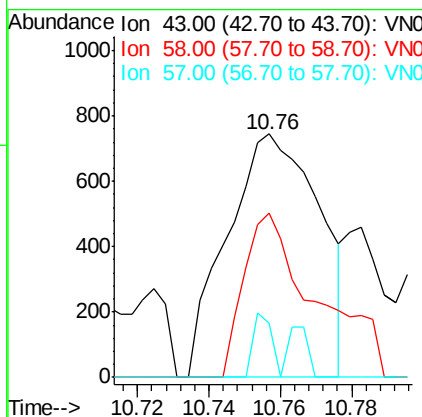
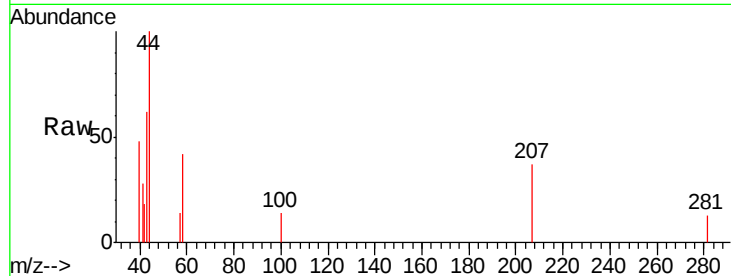




#59
2-Hexanone
Concen: 0.52 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN051831.D
Acq: 12 Oct 2018 14:37

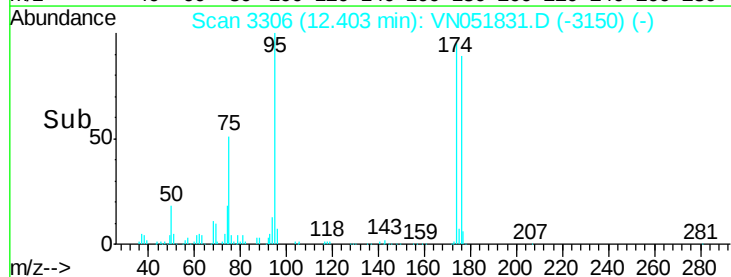
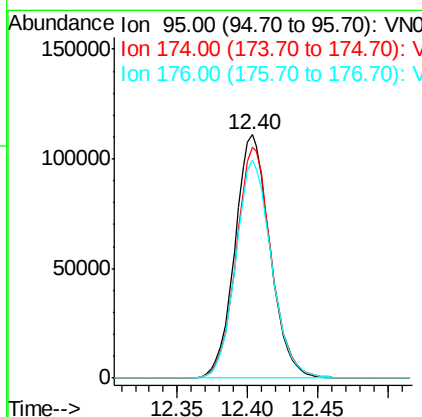
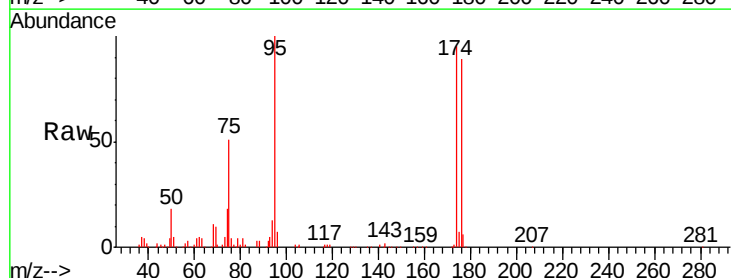
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

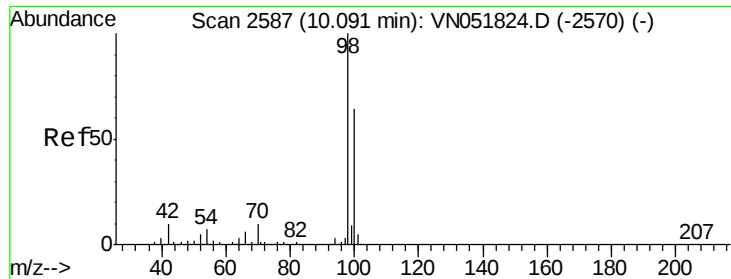
Tgt Ion: 43 Resp: 1336
Ion Ratio Lower Upper
43 100
58 47.5 41.3 61.9
57 5.2 13.4 20.0#



#60
4-Bromofluorobenzene
Concen: 0.52 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051831.D
Acq: 12 Oct 2018 14:37

Tgt Ion: 95 Resp: 192956
Ion Ratio Lower Upper
95 100
174 95.4 73.5 110.3
176 91.3 70.2 105.2





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

Instrument :

MSVOA_N

ClientSampleId :

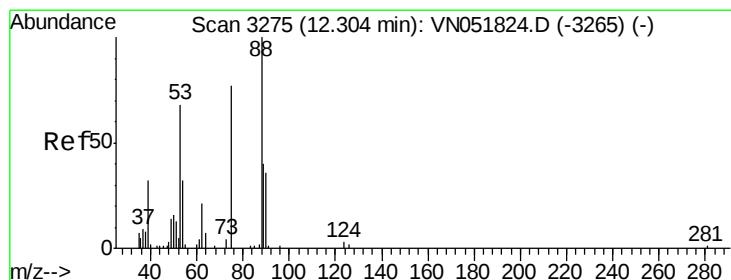
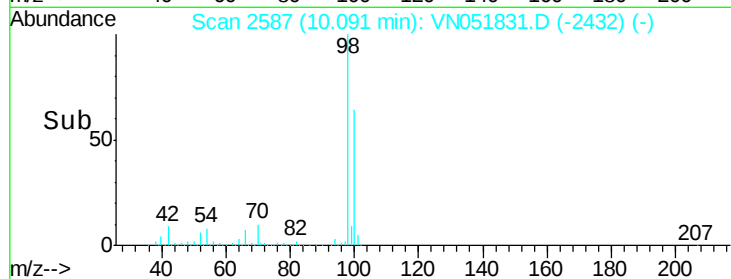
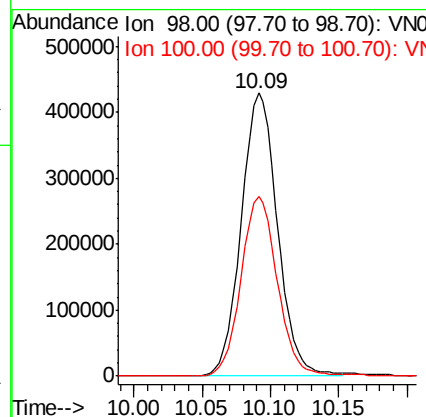
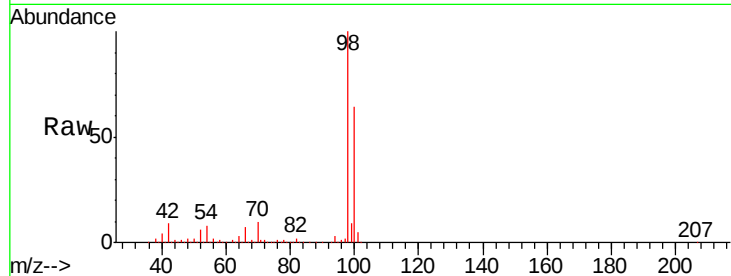
SPDES-1

Tgt Ion: 98 Resp: 792435

Ion Ratio Lower Upper

98 100

100 63.5 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 57.87 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051831.D

Acq: 12 Oct 2018 14:37

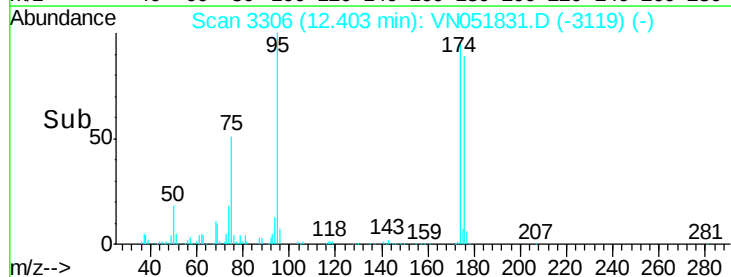
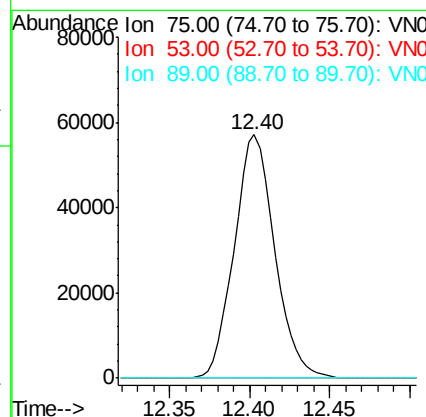
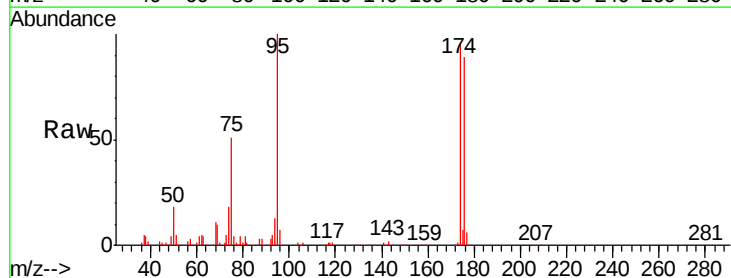
Tgt Ion: 75 Resp: 98435

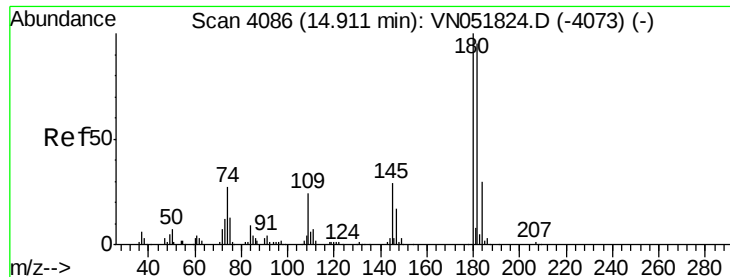
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

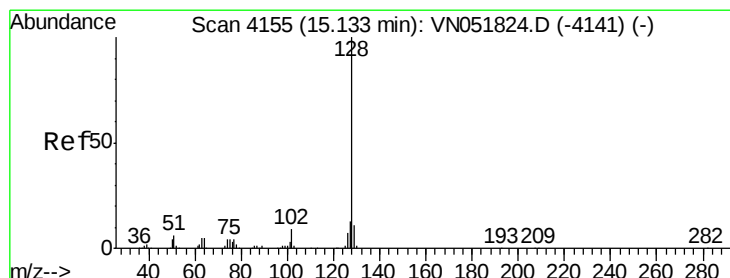
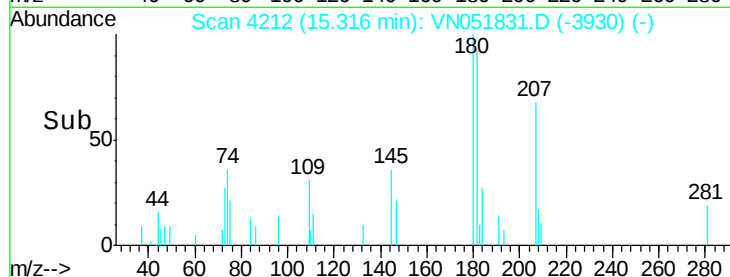
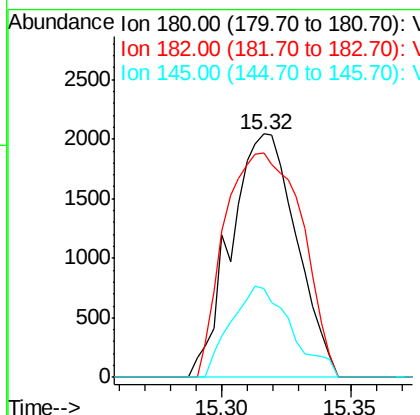
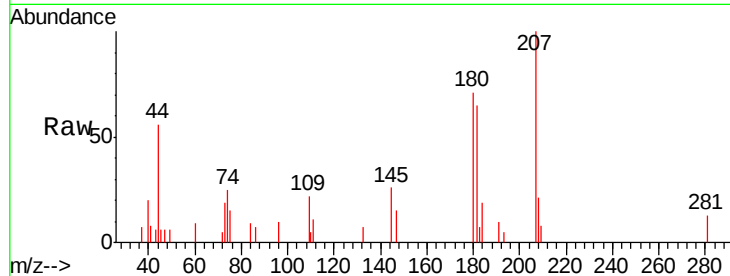




#89
 1,2,4-Trichlorobenzene
 Concen: 8.12 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.41 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

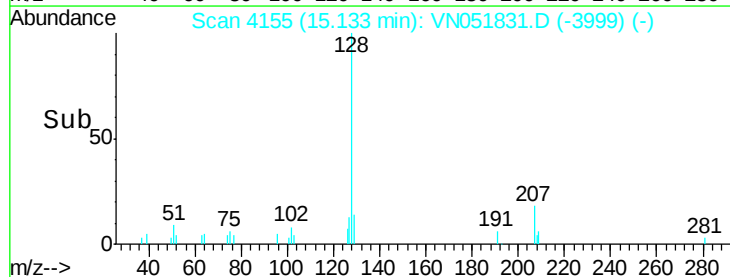
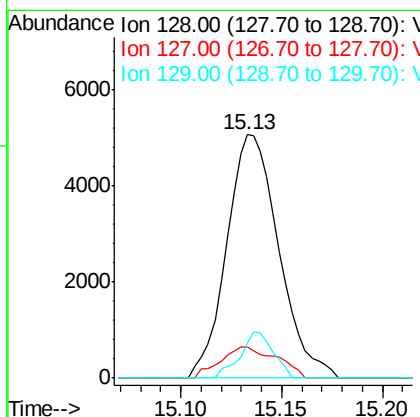
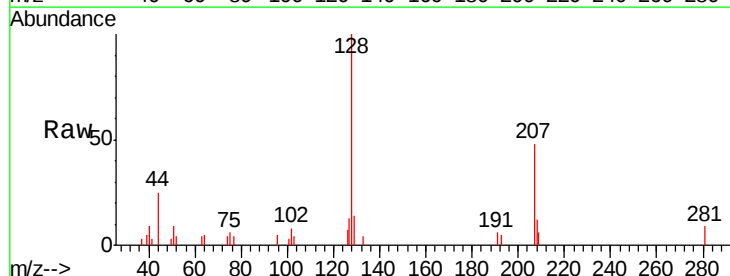
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

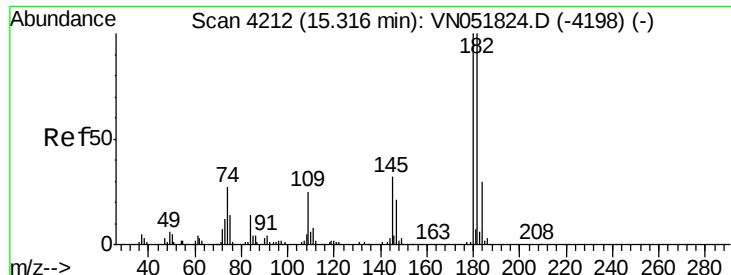
Tgt Ion:180 Resp: 3624
 Ion Ratio Lower Upper
 180 100
 182 108.7 77.7 116.5
 145 32.7 23.4 35.2



#91
 Naphthalene
 Concen: 9.01 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

Tgt Ion:128 Resp: 9112
 Ion Ratio Lower Upper
 128 100
 127 10.3 10.1 15.1
 129 12.1 8.4 12.6





#92
 1,2,3-Trichlorobenzene
 Concen: 0.57 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051831.D
 Acq: 12 Oct 2018 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tgt Ion:180 Resp: 3624
 Ion Ratio Lower Upper
 180 100
 182 108.7 0.0 198.0
 145 32.7 0.0 36.8

