

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX003005.D
 Acq On : 29 Jun 2018 00:05
 Operator : JC/MD
 Sample : J3767-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SPDES-1

Quant Time: Jun 29 05:34:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	49509	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	270206	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	240800	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.07	65	112961	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%
60) 4-Bromofluorobenzene	11.14	95	111262	27.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.27%
63) Toluene-d8	8.72	98	306086	29.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.00%

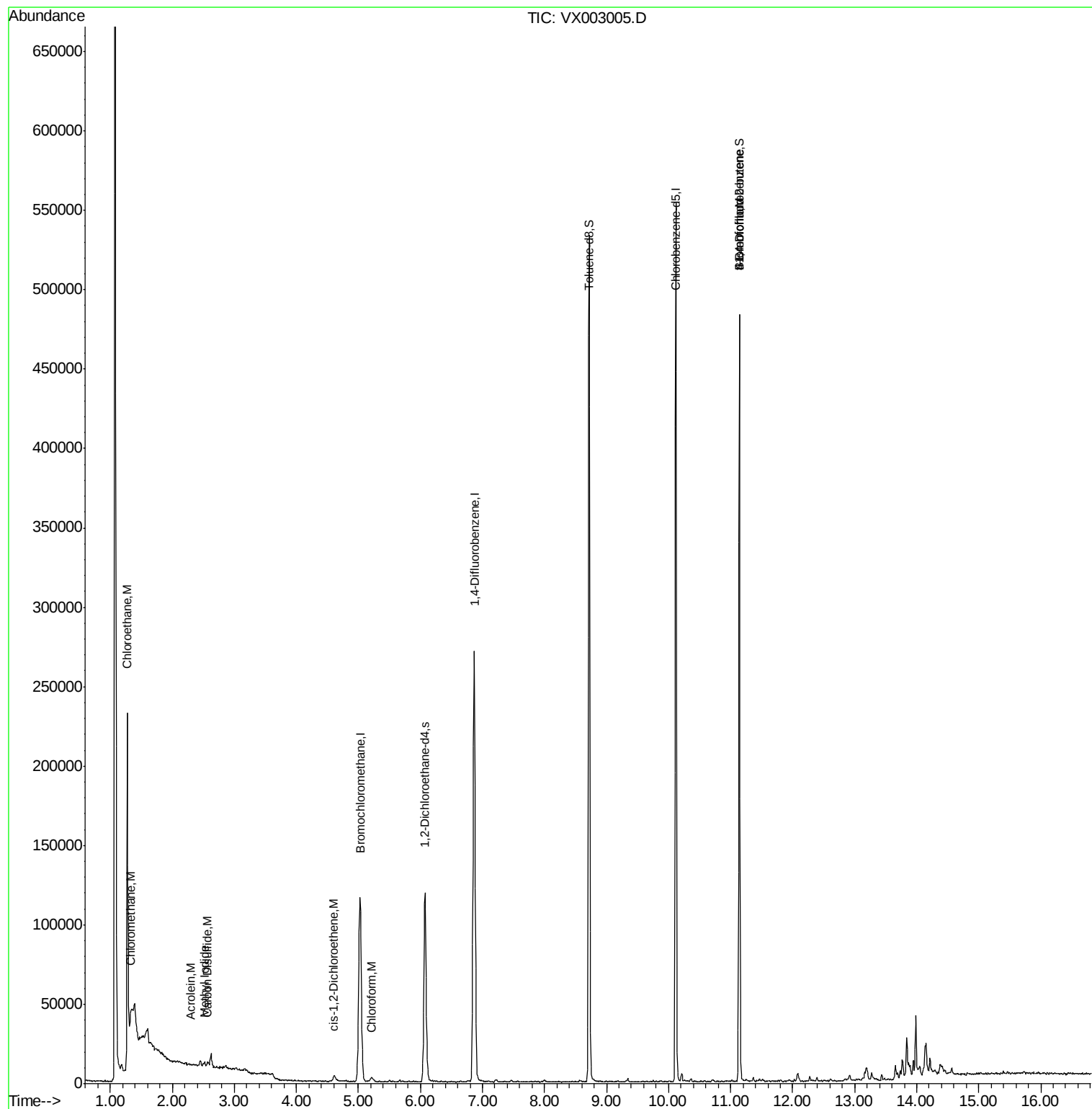
Target Compounds					Ovalue
3) Chloromethane	1.32	50	1695	0.66 ug/l	94
6) Chloroethane	1.28	64	181726	94.53 ug/l #	53
11) Methyl Iodide	2.52	142	2977	1.01 ug/l	91
13) Acrolein	2.29	56	81	0.27 ug/l	99
16) Carbon Disulfide	2.57	76	3877	0.60 ug/l	96
22) cis-1,2-Dichloroethene	4.60	96	800	0.27 ug/l #	1
25) Chloroform	5.21	83	1810	0.35 ug/l	91
56) Bromoform	11.15	173	1157	0.47 ug/l #	1
77) t-1,4-Dichloro-2-butene	11.14	75	58914	51.79 ug/l #	11

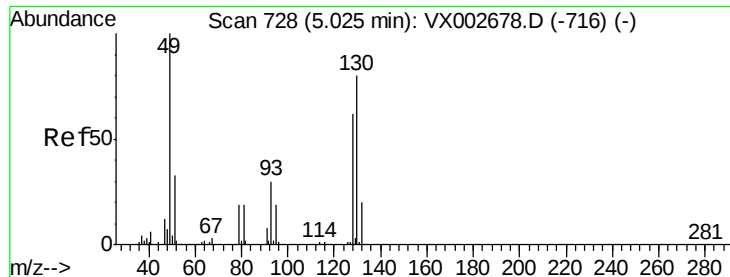
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 29 05:34:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jun 18 15:18:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. -0.00 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

SPDES-1

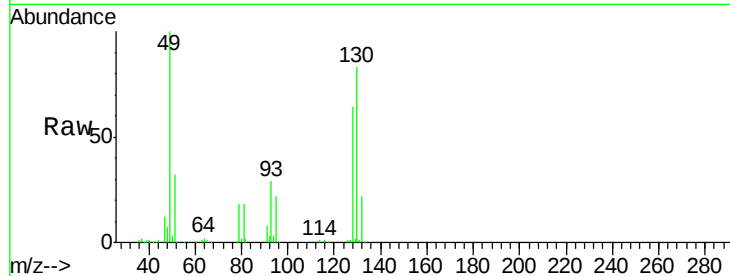
Tot Ion:128 Resp: 49509

Ion Ratio Lower Upper

128 100

49 153.7 0.0 423.0

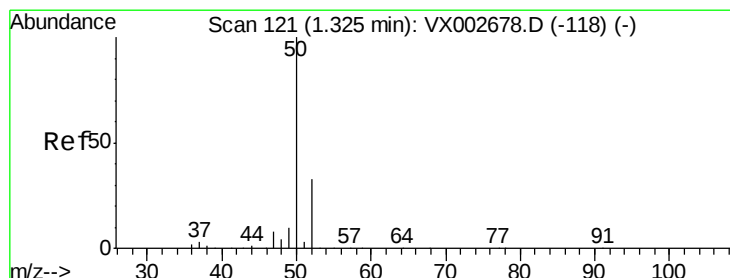
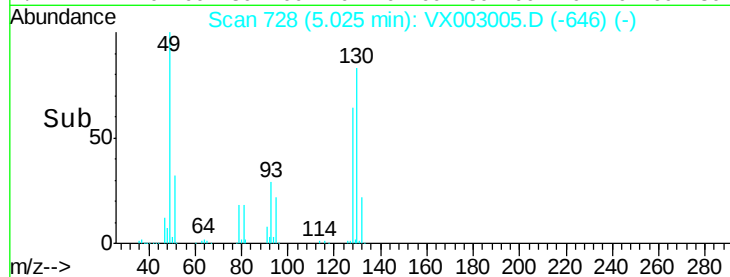
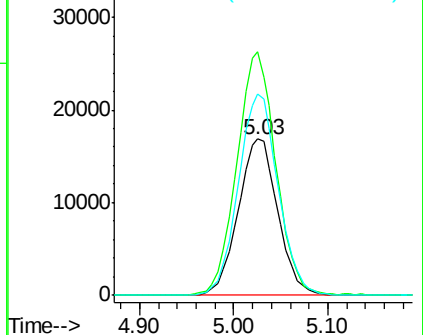
130 129.7 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.66 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003005.D

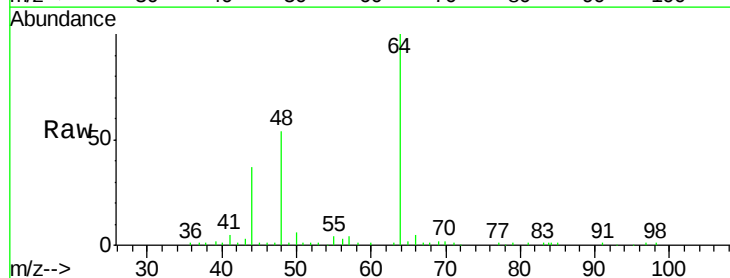
Acq: 29 Jun 2018 00:05

Tgt Ion: 50 Resp: 1695

Ion Ratio Lower Upper

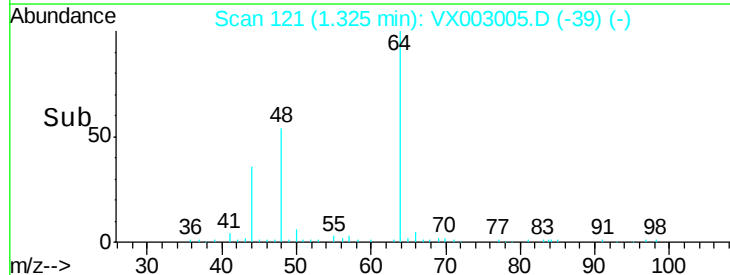
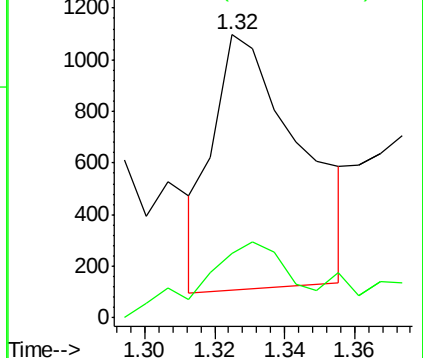
50 100

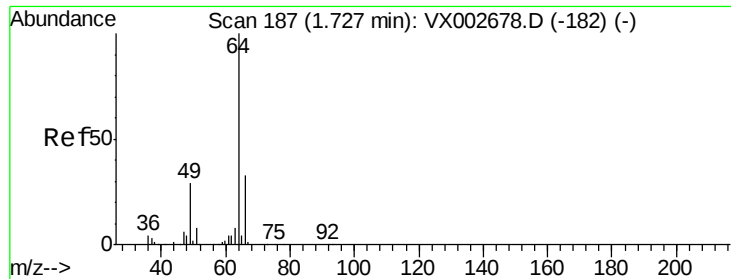
52 28.8 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 94.53 ug/l

RT: 1.28 min Scan# 113

Delta R.T. -0.43 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

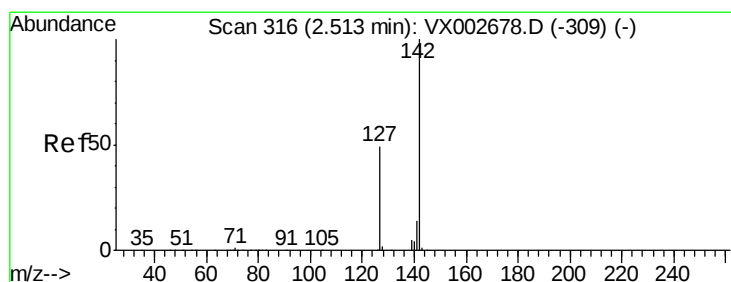
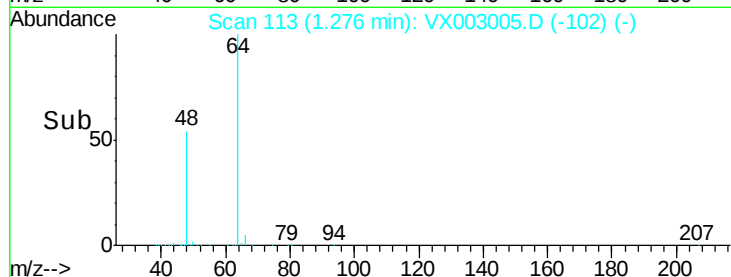
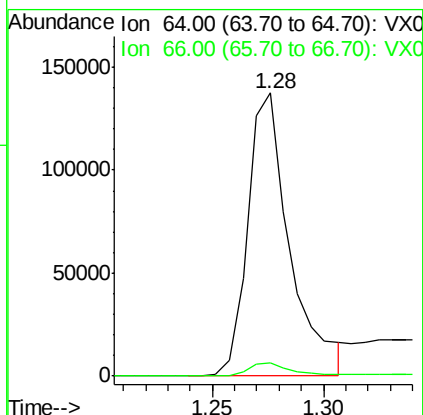
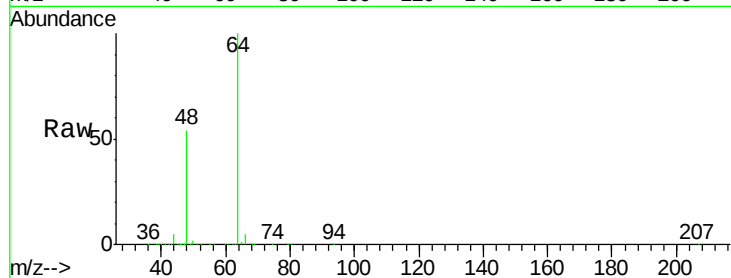
SPDES-1

Tot Ion: 64 Resp: 181726

Ion Ratio Lower Upper

64 100

66 4.9 24.3 36.5#



#11

Methyl Iodide

Concen: 1.01 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

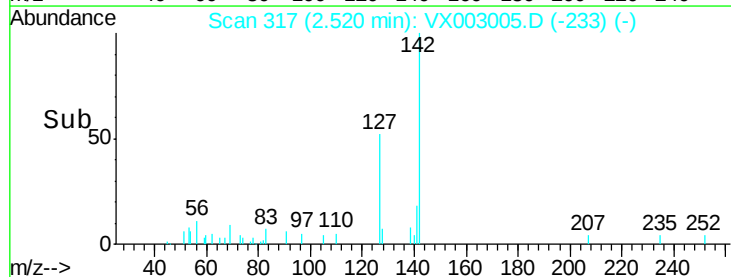
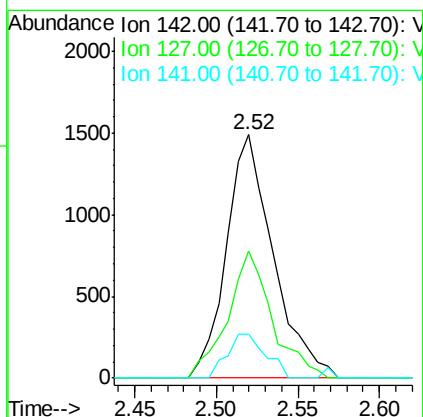
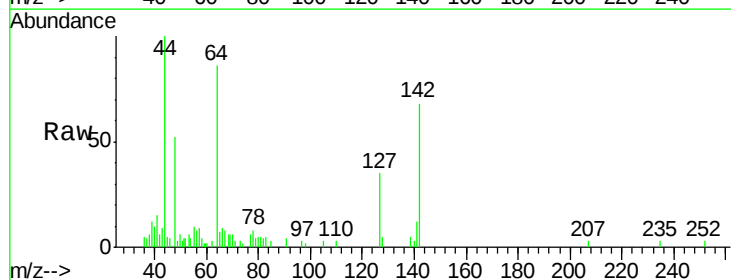
Tgt Ion: 142 Resp: 2977

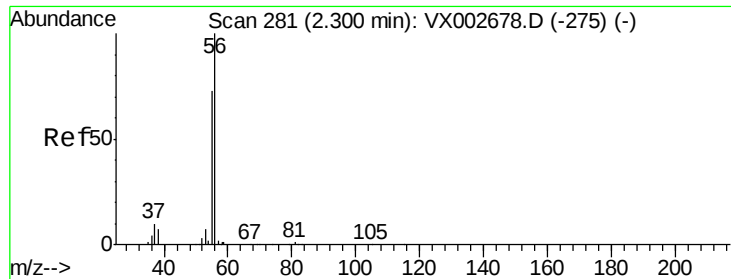
Ion Ratio Lower Upper

142 100

127 52.2 23.2 69.6

141 18.1 7.4 22.2





#13

Acrolein

Concen: 0.27 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

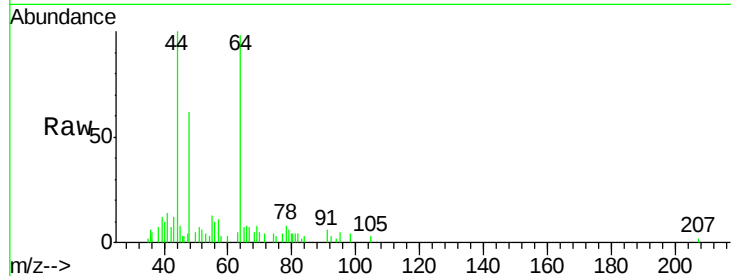
SPDES-1

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

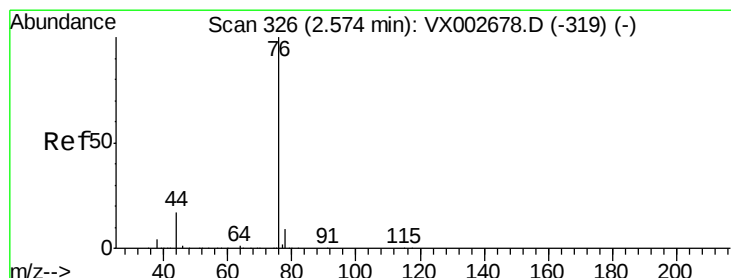
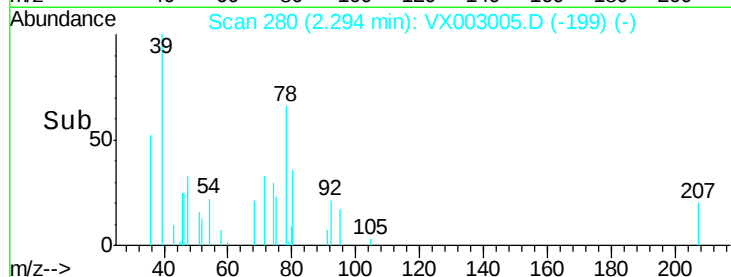
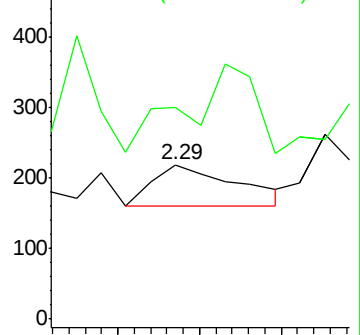
56 100

55 72.8 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Carbon Disulfide

Concen: 0.60 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003005.D

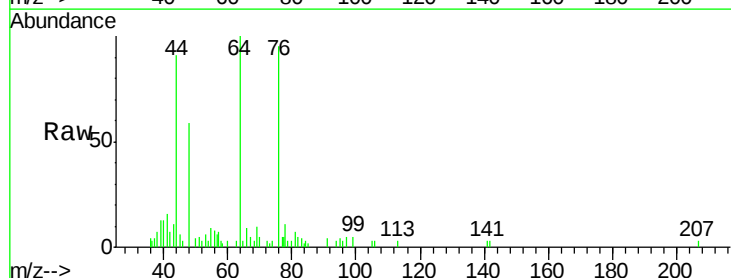
Acq: 29 Jun 2018 00:05

Tgt Ion: 76 Resp: 3877

Ion Ratio Lower Upper

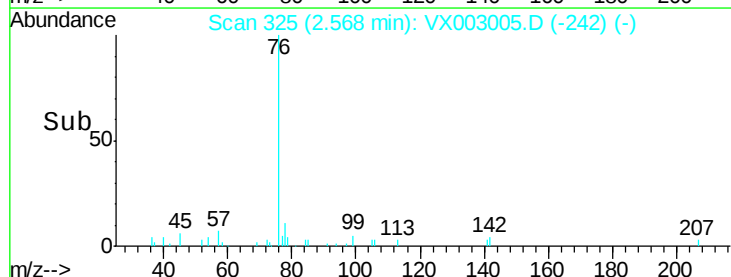
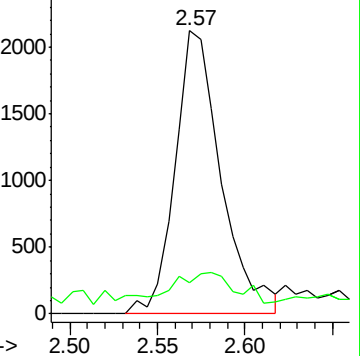
76 100

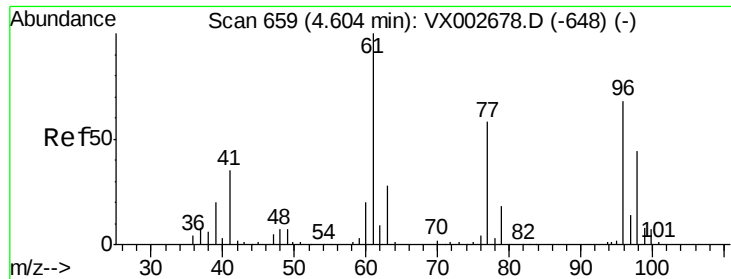
78 10.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#22

cis-1,2-Dichloroethene

Concen: 0.27 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

SPDES-1

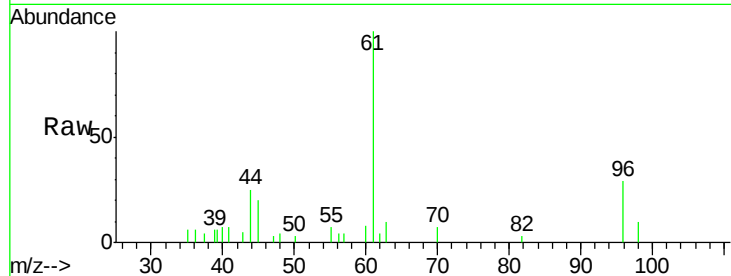
Tot Ion: 96 Resp: 800

Ion Ratio Lower Upper

96 100

61 646.3 160.2 240.2#

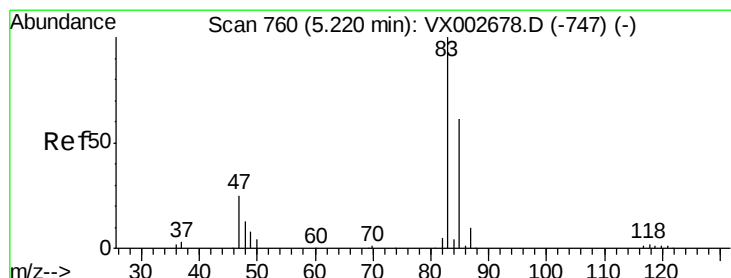
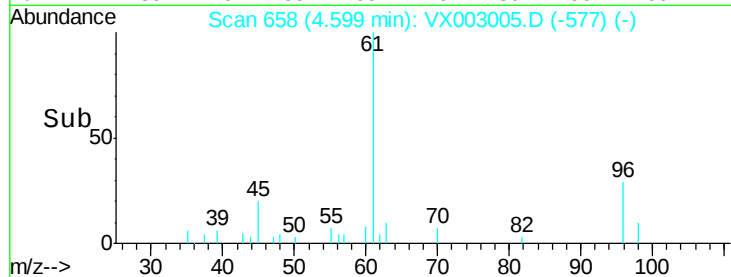
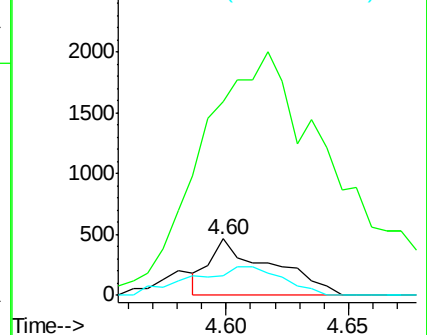
98 50.4 54.1 81.1#



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#25

Chloroform

Concen: 0.35 ug/l

RT: 5.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX003005.D

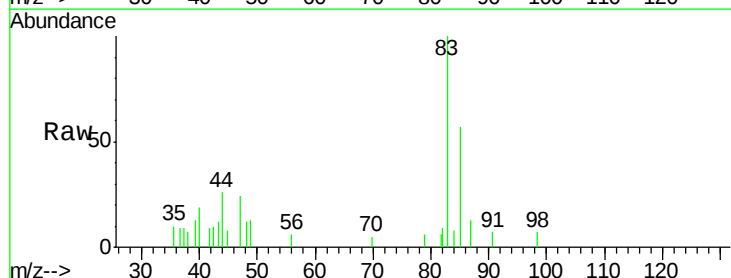
Acq: 29 Jun 2018 00:05

Tgt Ion: 83 Resp: 1810

Ion Ratio Lower Upper

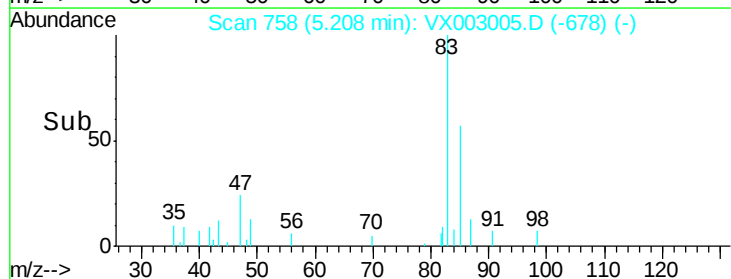
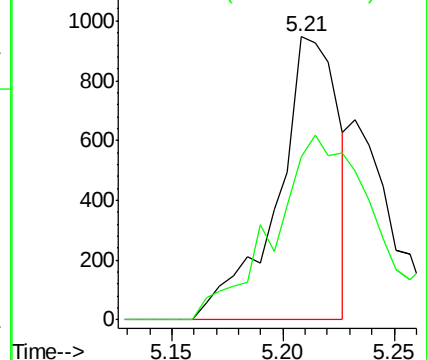
83 100

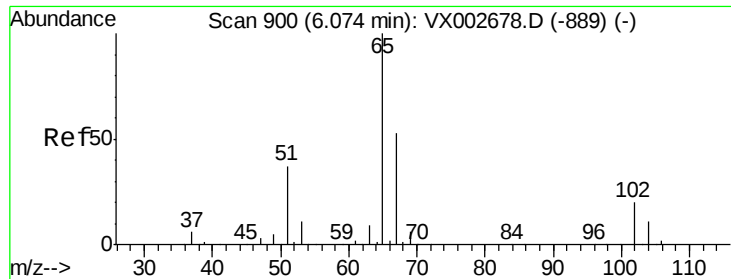
85 57.4 51.9 77.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 29.88 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

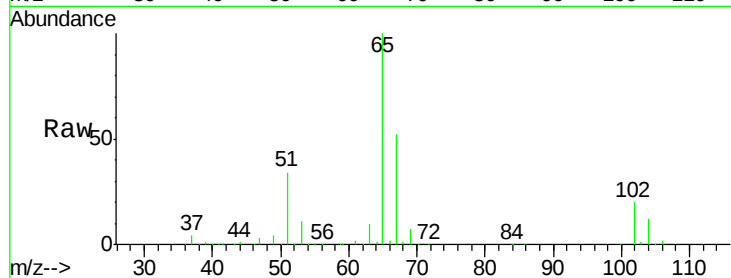
SPDES-1

Tot Ion: 65 Resp: 112961

Ion Ratio Lower Upper

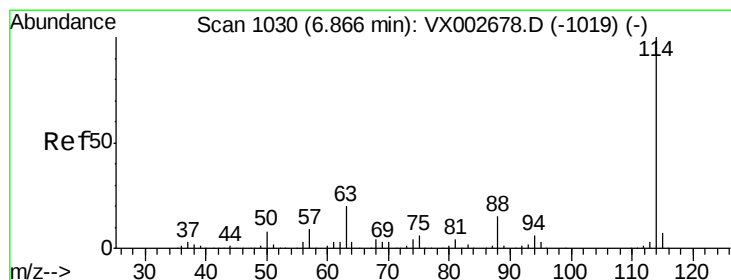
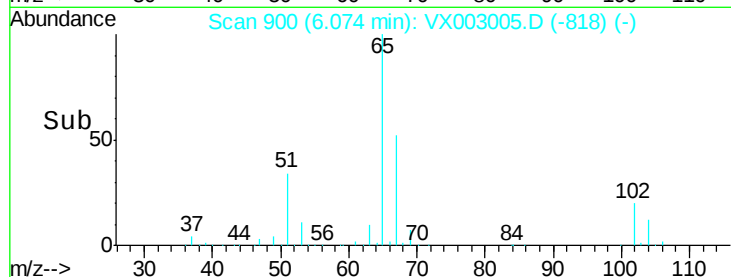
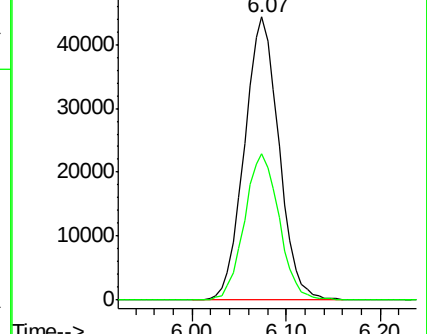
65 100

67 52.1 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

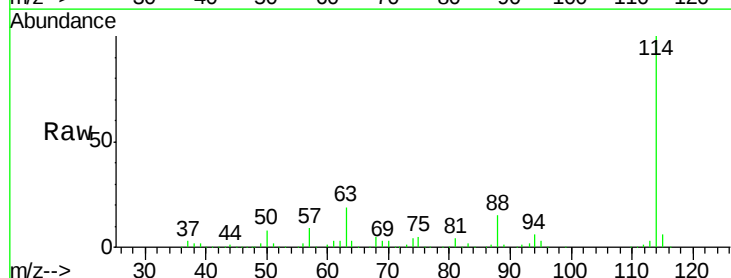
Tgt Ion: 114 Resp: 270206

Ion Ratio Lower Upper

114 100

63 20.2 17.1 25.7

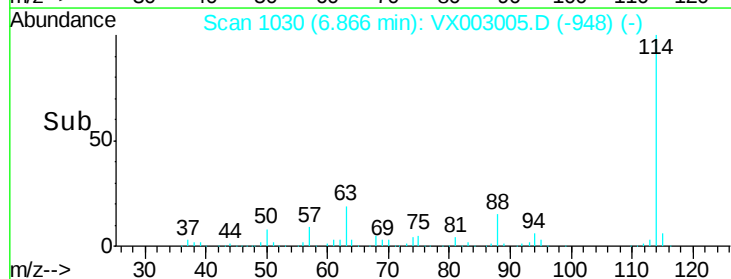
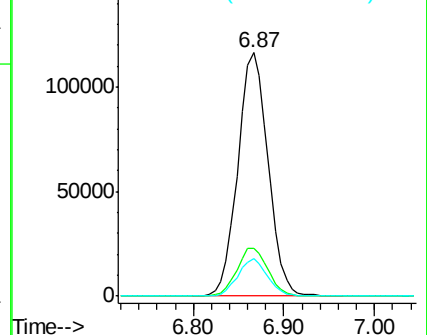
88 15.0 12.6 19.0

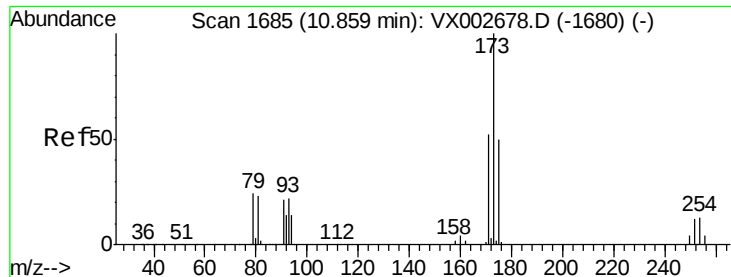


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#56

Bromoform

Concen: 0.47 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.29 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

Instrument :

MSVOA_X

ClientSampleId :

SPDES-1

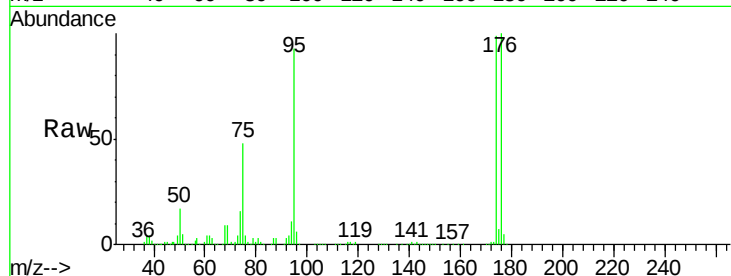
Tot Ion:173 Resp: 1157

Ion Ratio Lower Upper

173 100

175 682.1 39.0 58.4#

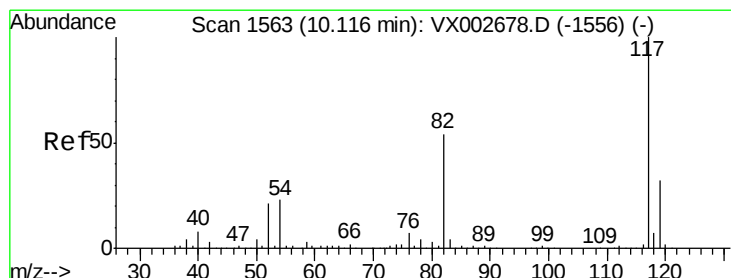
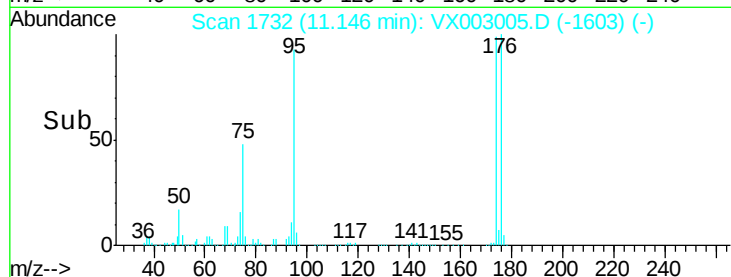
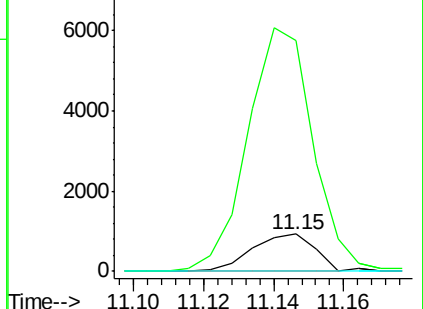
254 0.0 9.6 14.4#



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: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003005.D

Acq: 29 Jun 2018 00:05

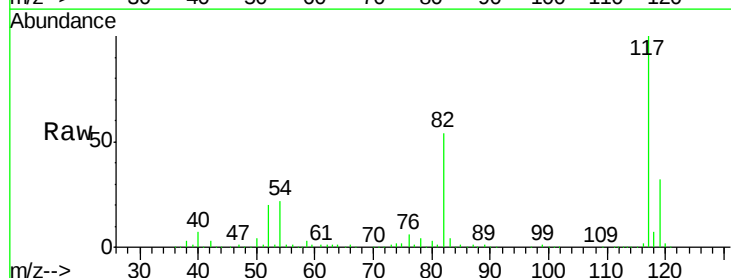
Tgt Ion:117 Resp: 240800

Ion Ratio Lower Upper

117 100

82 53.9 44.3 66.5

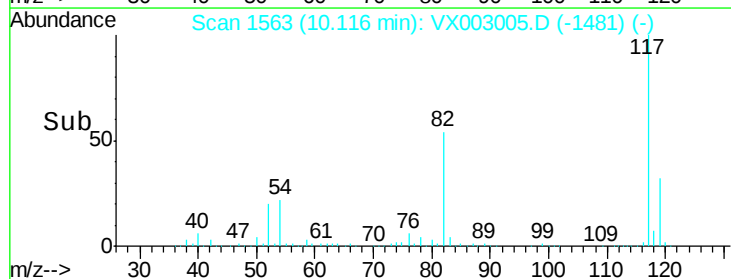
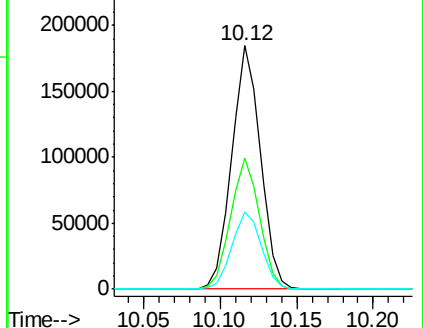
119 32.4 25.7 38.5

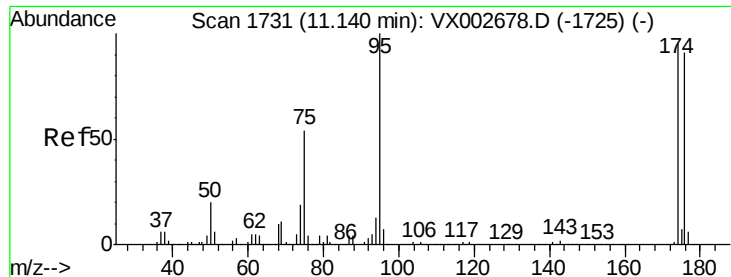


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

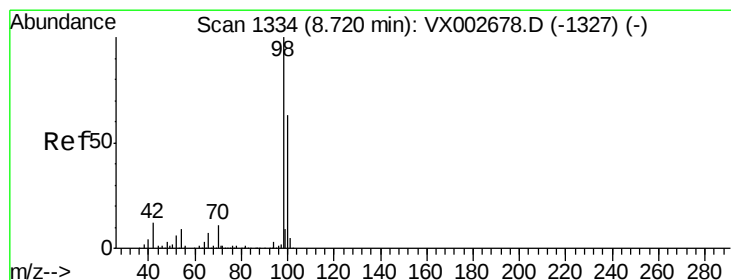
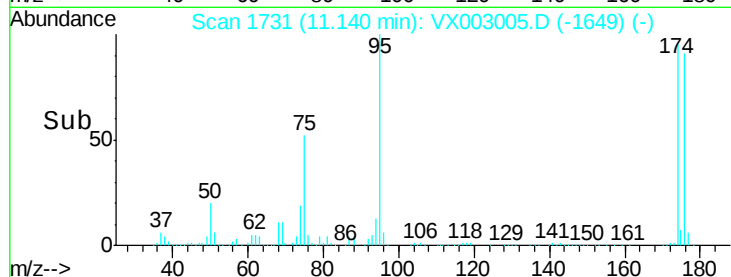
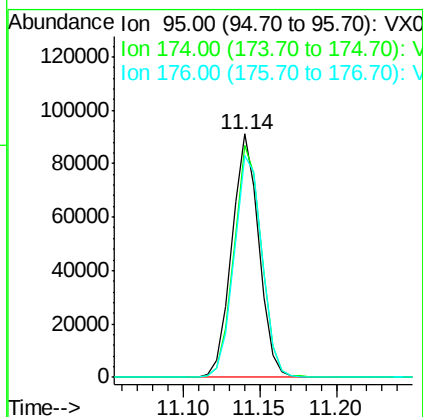
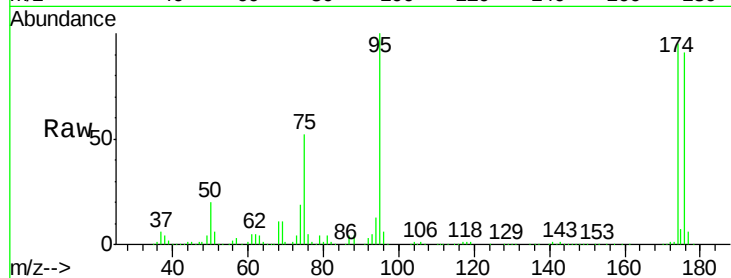




#60
4-Bromofluorobenzene
Concen: 27.98 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003005.D
Acq: 29 Jun 2018 00:05

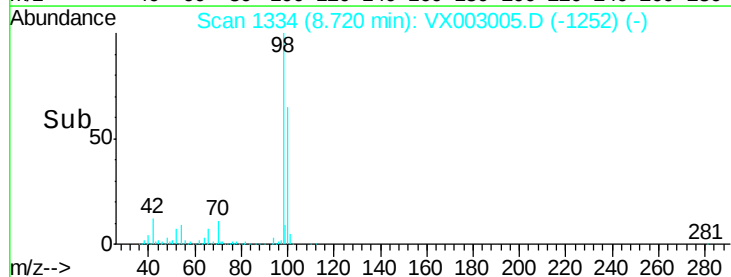
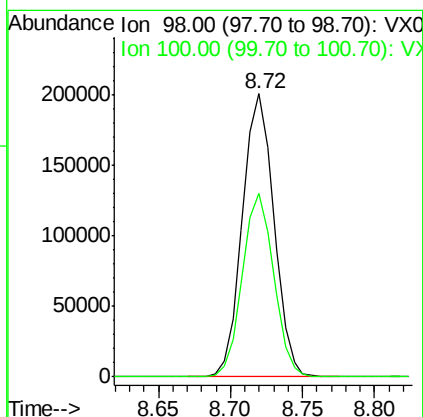
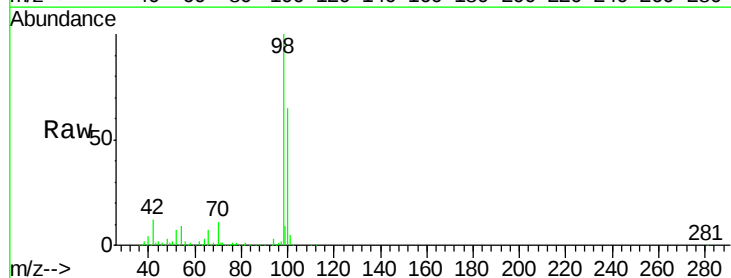
Instrument :
MSVOA_X
ClientSampleId :
SPDES-1

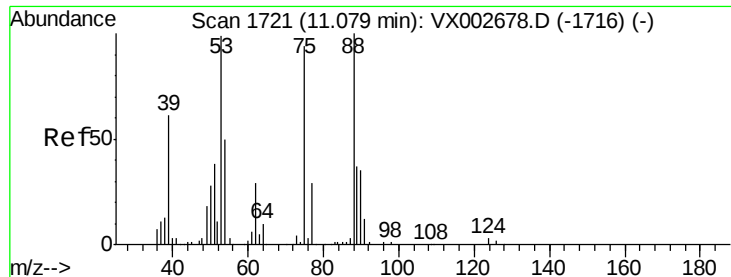
Tot Ion: 95 Resp: 111262
Ion Ratio Lower Upper
95 100
174 97.0 71.8 107.6
176 94.1 70.1 105.1



#63
Toluene-d8
Concen: 29.10 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003005.D
Acq: 29 Jun 2018 00:05

Tgt Ion: 98 Resp: 306086
Ion Ratio Lower Upper
98 100
100 64.4 50.8 76.2





#77
t-1,4-Dichloro-2-butene
Concen: 51.79 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003005.D
Acq: 29 Jun 2018 00:05

Instrument :
MSVOA_X
ClientSampleId :
SPDES-1

Tot Ion: 75 Resp: 58914
Ion Ratio Lower Upper
75 100
53 0.1 48.3 144.9#
89 0.0 21.8 65.4#

