

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004073.D
 Acq On : 15 Aug 2018 15:34
 Operator : JC/MD
 Sample : J4447-06
 Misc : 7.10µ/5mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-7

Quant Time: Aug 15 15:57:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	229678	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.85	114	366560	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.12	117	369053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	214839	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	172203	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
35) Dibromofluoromethane	5.50	113	134810	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	8.71	98	532041	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
62) 4-Bromofluorobenzene	11.14	95	198979	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	

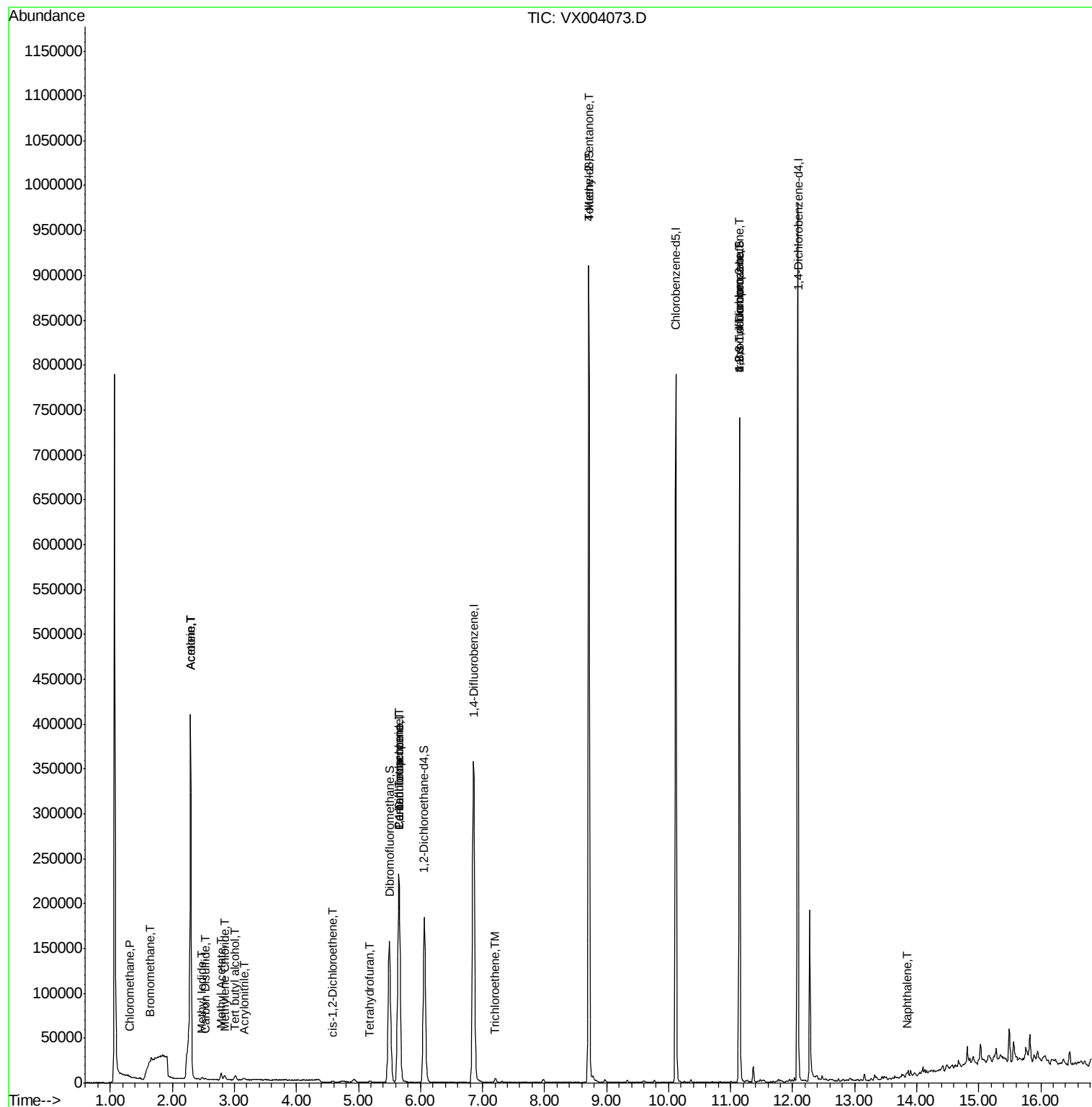
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	705	0.26	ug/l	95
5) Bromomethane	1.63	94	1275	0.67	ug/l	86
6) Chloroethane	1.73	64	84	Below Cal	#	42
10) Methyl Iodide	2.48	142	1682	5.56	ug/l	97
11) Tert butyl alcohol	3.01	59	3268	5.01	ug/l	# 74
13) Acrolein	2.29	56	331	11.67	ug/l	# 61
15) Acrylonitrile	3.16	53	462	0.28	ug/l	# 80
16) Acetone	2.29	43	86215	51.24	ug/l	# 42
17) Carbon Disulfide	2.53	76	1739	0.25	ug/l	97
18) Methyl Acetate	2.79	43	8242	2.20	ug/l	99
20) Methylene Chloride	2.84	84	2305	0.23	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	691	0.22	ug/l	79
29) Tetrahydrofuran	5.18	42	1192	0.85	ug/l	# 75
36) 1,1-Dichloropropene	5.65	75	17815	4.27	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	20767	5.12	ug/l	# 16
44) Trichloroethene	7.21	130	1727	0.51	ug/l	92
51) 4-Methyl-2-Pentanone	8.71	43	2606	0.47	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	97625	22.66	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	97625	70.14	ug/l	# 9
95) Naphthalene	13.84	128	2245	1.29	ug/l	# 94

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081518\
Data File : VX004073.D
Acq On : 15 Aug 2018 15:34
Operator : JC/MD
Sample : J4447-06
Misc : 7.10µL/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleID :
SP-1-7

Quant Time: Aug 15 15:57:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 13:27:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

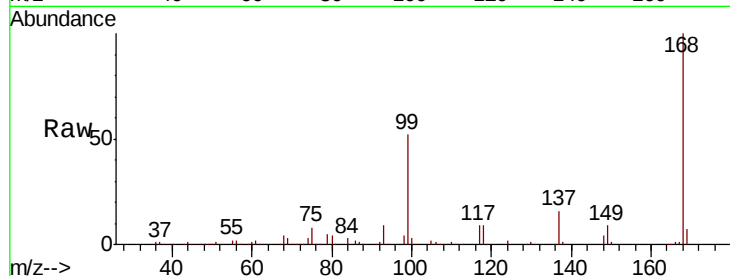
SP-1-7

Tot Ion:168 Resp: 229678

Ion Ratio Lower Upper

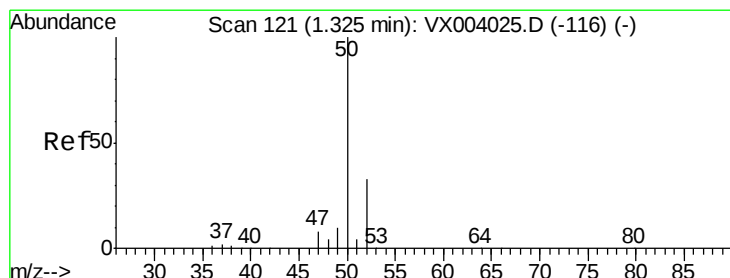
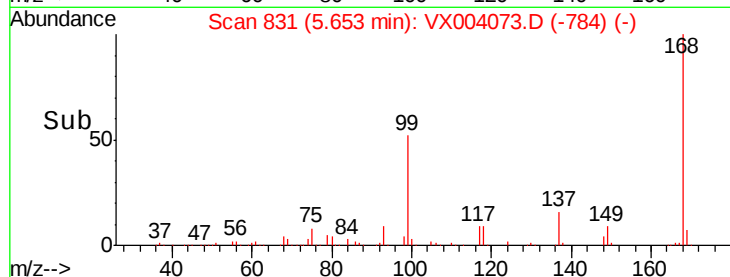
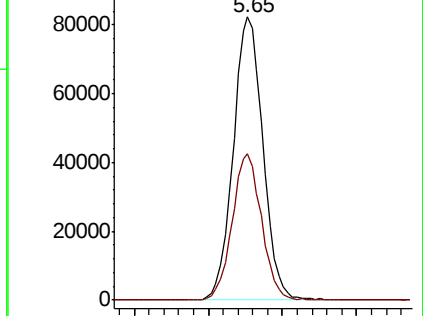
168 100

99 51.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004073.D

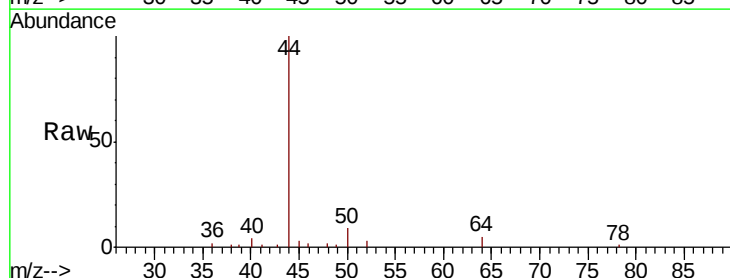
Acq: 15 Aug 2018 15:34

Tgt Ion: 50 Resp: 705

Ion Ratio Lower Upper

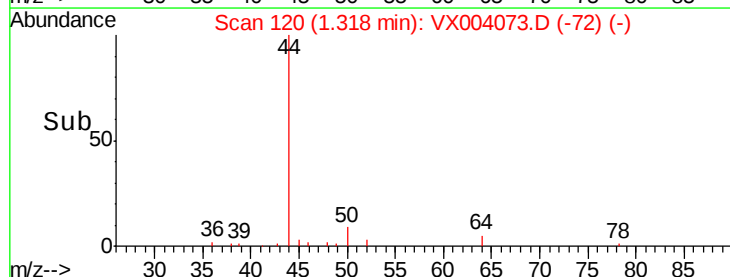
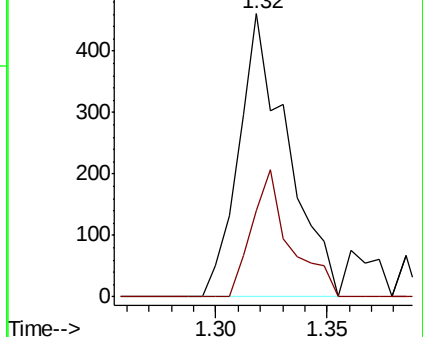
50 100

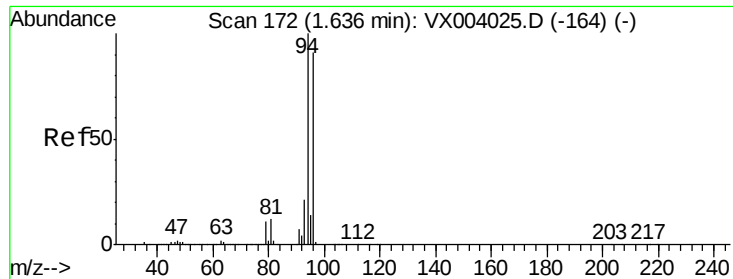
52 30.6 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.67 ug/l

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

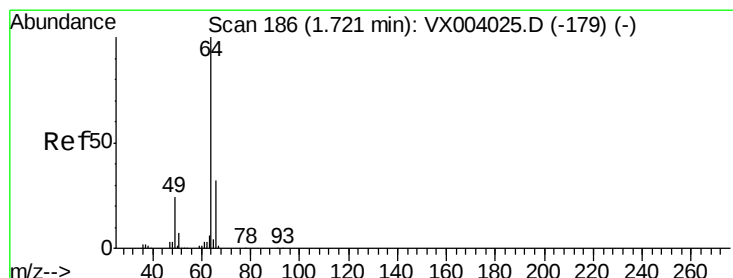
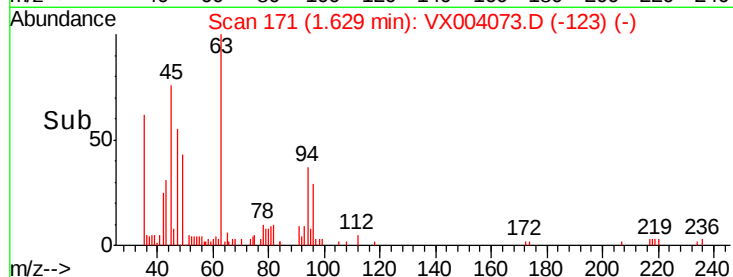
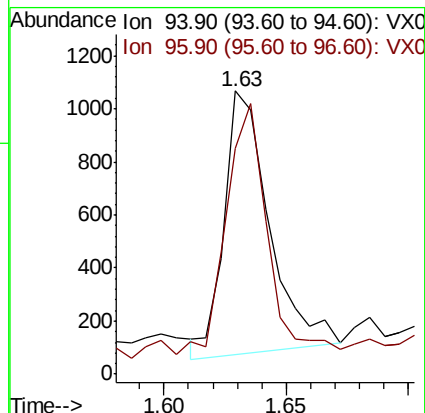
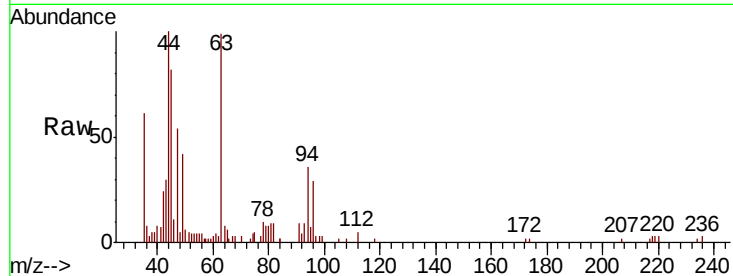
SP-1-7

Tot Ion: 94 Resp: 1275

Ion Ratio Lower Upper

94 100

96 80.2 75.2 112.8



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004073.D

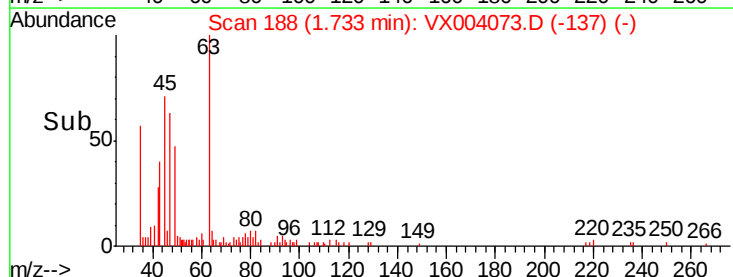
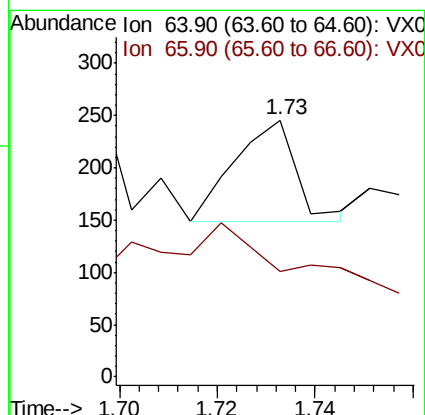
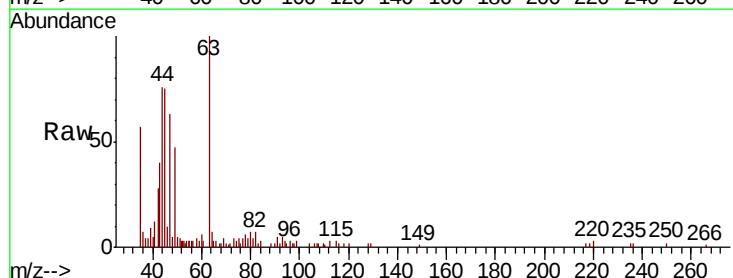
Acq: 15 Aug 2018 15:34

Tgt Ion: 64 Resp: 84

Ion Ratio Lower Upper

64 100

66 0.0 26.5 39.7#

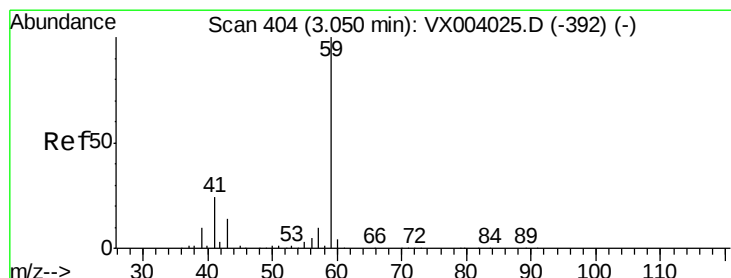
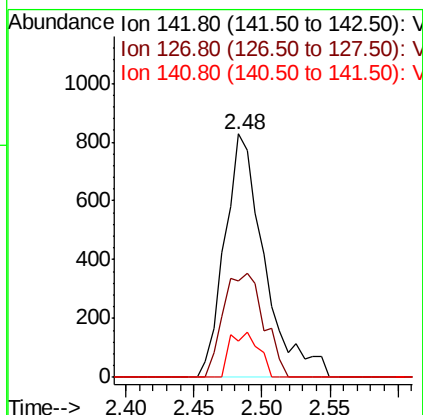
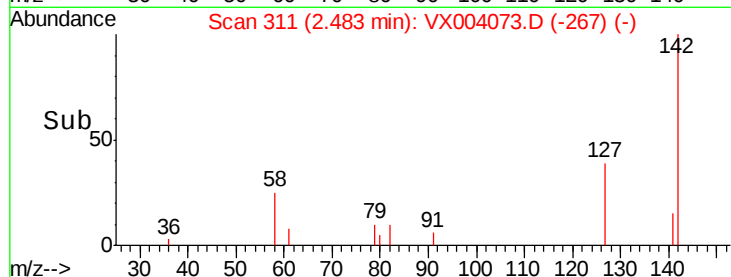
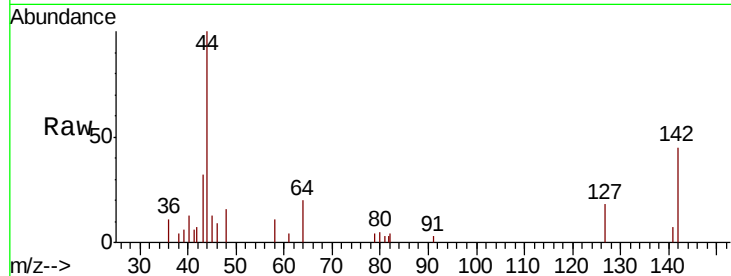




#10
Methyl Iodide
Concen: 5.56 ug/l
RT: 2.48 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

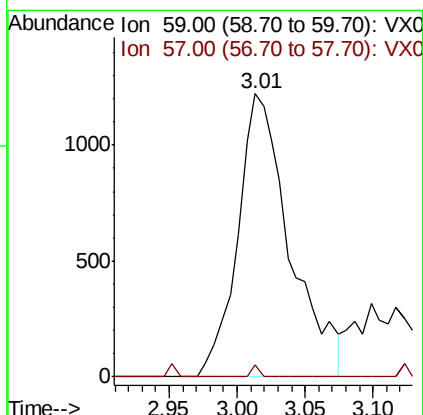
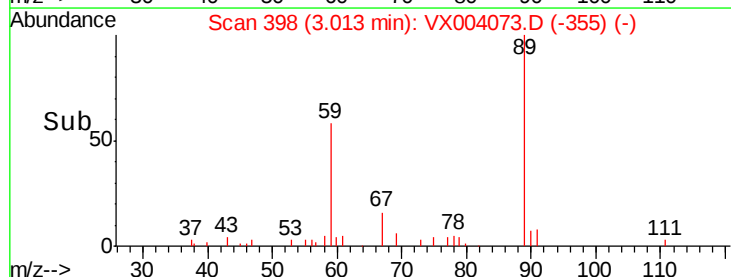
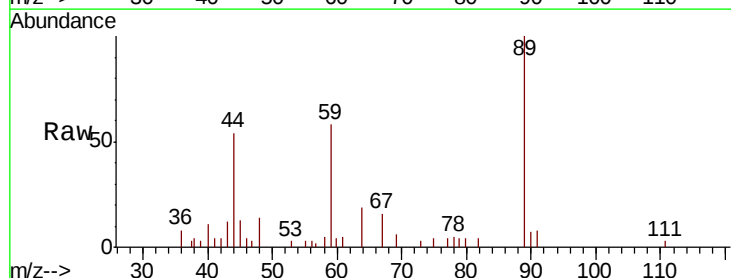
Instrument :
MSVOA_X
ClientSampled :
SP-1-7

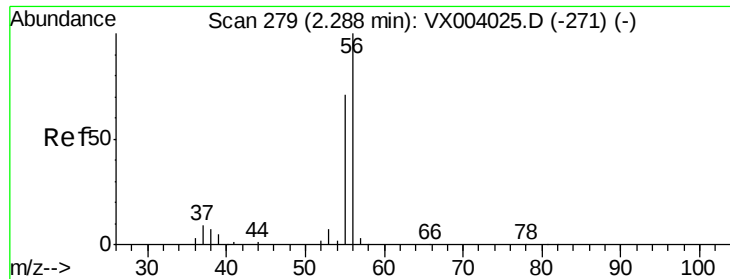
Tot Ion:142 Resp: 1682
Ion Ratio Lower Upper
142 100
127 43.9 33.1 49.7
141 13.4 11.1 16.7



#11
Tert butyl alcohol
Concen: 5.01 ug/l
RT: 3.01 min Scan# 398
Delta R.T. -0.04 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

Tgt Ion: 59 Resp: 3268
Ion Ratio Lower Upper
59 100
57 0.6 8.1 12.1#





#13

Acrolein

Concen: 11.67 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

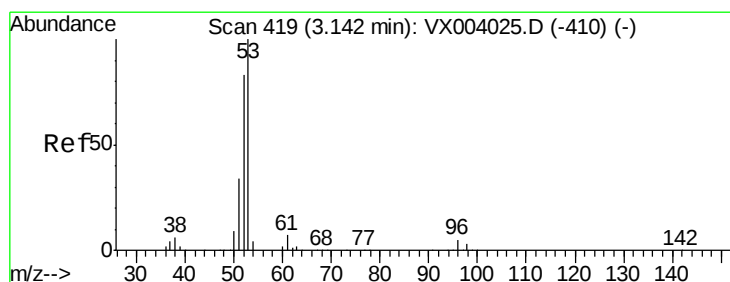
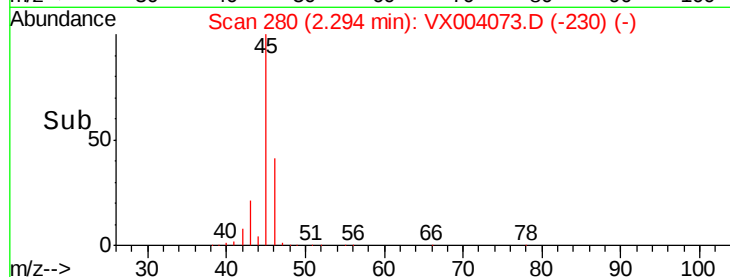
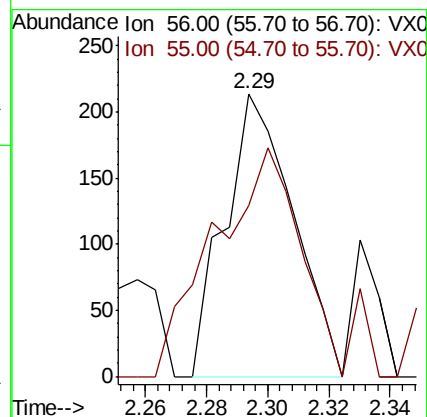
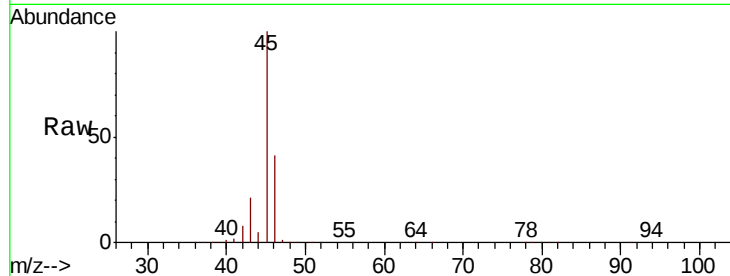
SP-1-7

Tot Ion: 56 Resp: 331

Ion Ratio Lower Upper

56 100

55 102.1 56.1 84.1#



#15

Acrylonitrile

Concen: 0.28 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.02 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

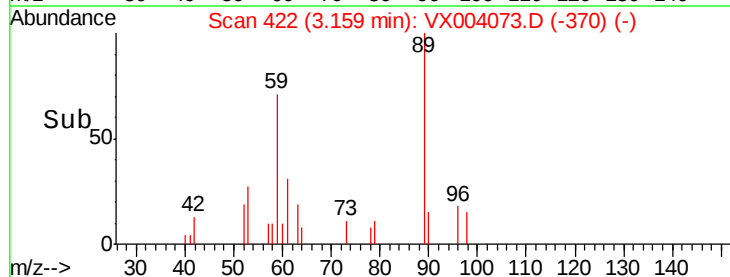
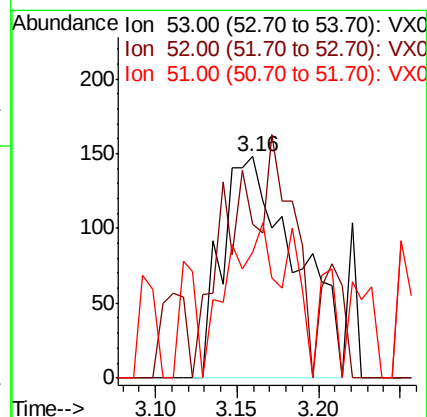
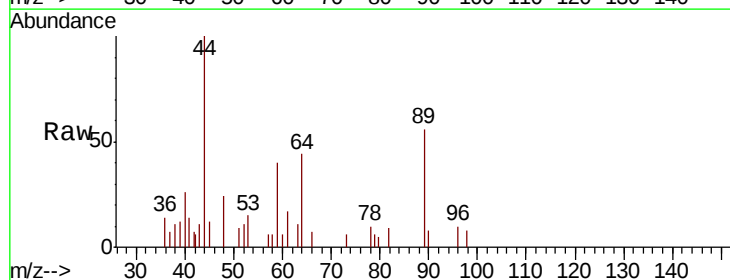
Tgt Ion: 53 Resp: 462

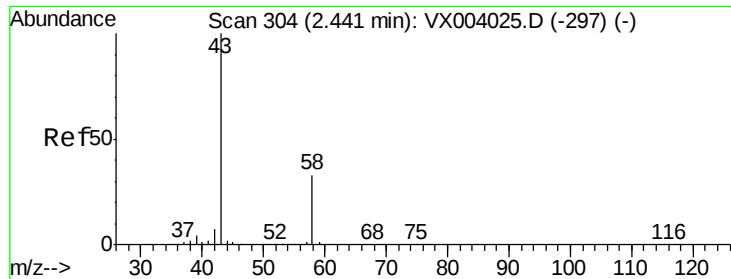
Ion Ratio Lower Upper

53 100

52 91.1 65.3 97.9

51 58.4 27.9 41.9#





#16

Acetone

Concen: 51.24 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.15 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampled :

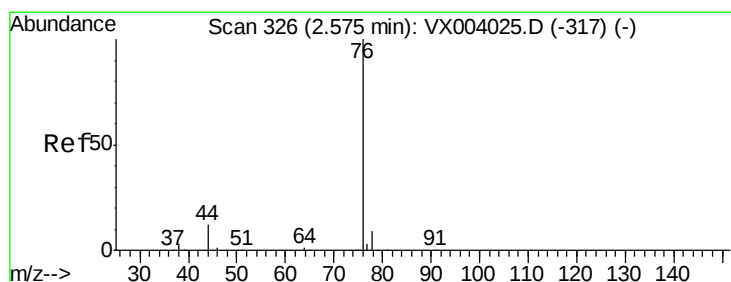
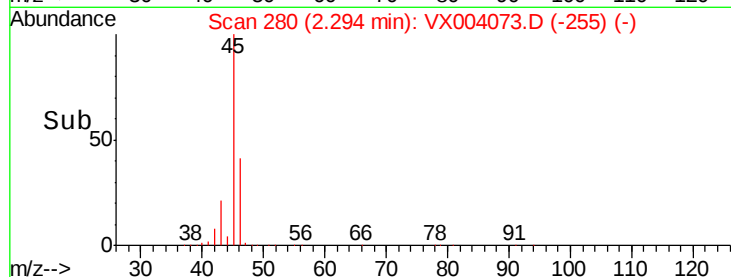
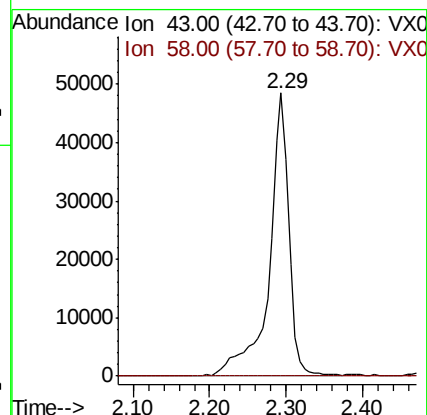
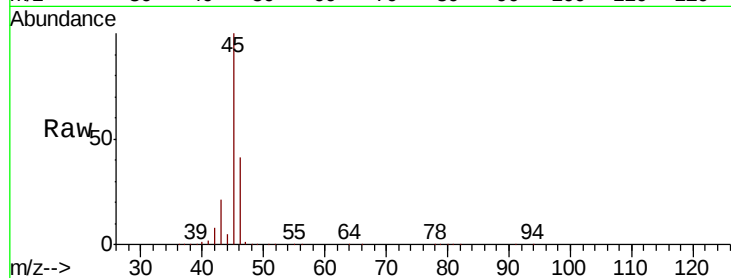
SP-1-7

Tot Ion: 43 Resp: 86215

Ion Ratio Lower Upper

43 100

58 0.0 26.4 39.6#



#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.53 min Scan# 319

Delta R.T. -0.04 min

Lab File: VX004073.D

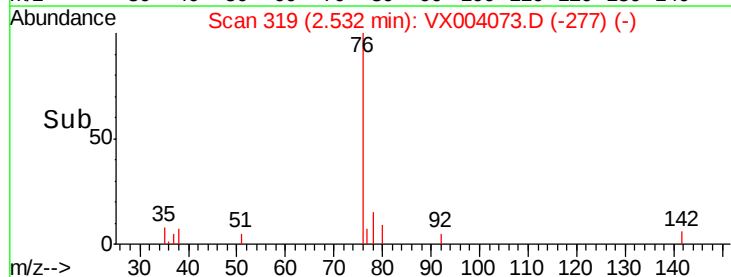
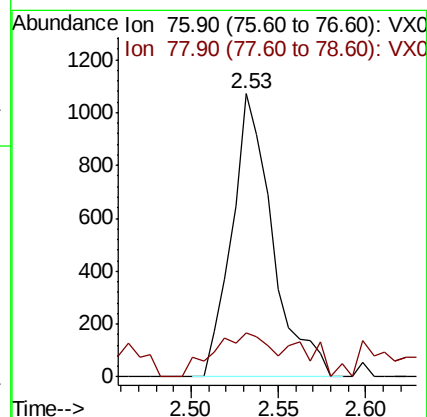
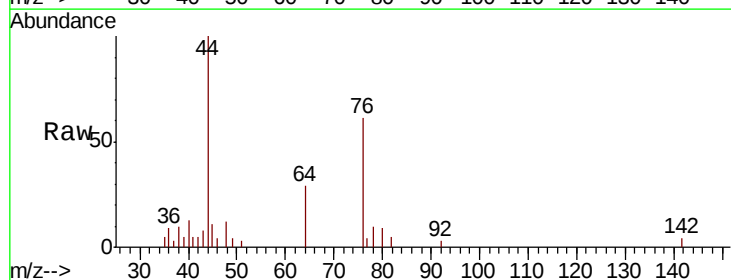
Acq: 15 Aug 2018 15:34

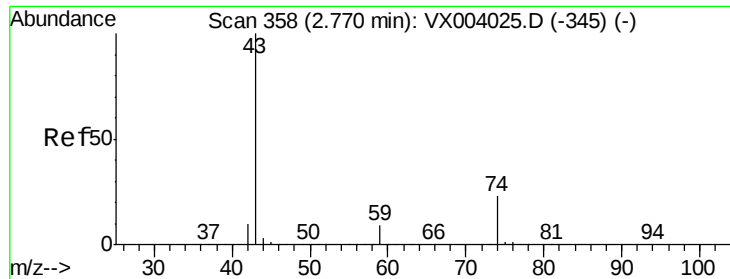
Tgt Ion: 76 Resp: 1739

Ion Ratio Lower Upper

76 100

78 10.6 7.5 11.3

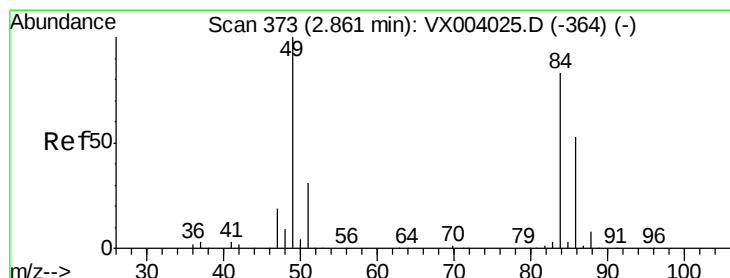
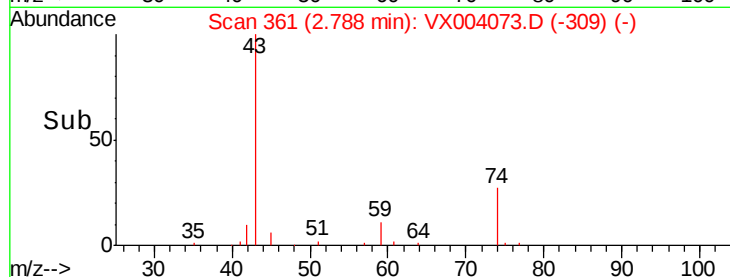
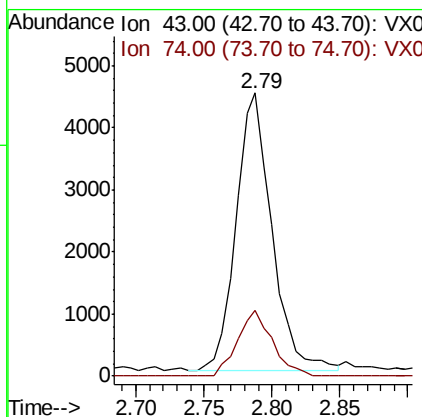
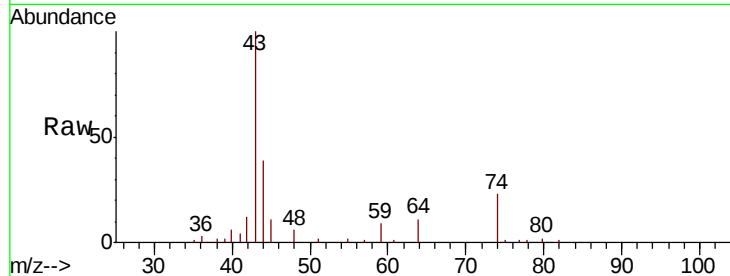




#18
Methvl Acetate
Concen: 2.20 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.02 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

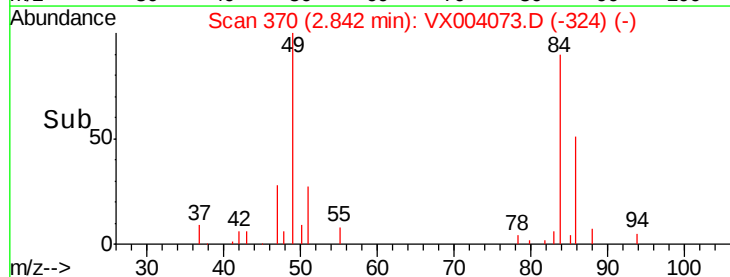
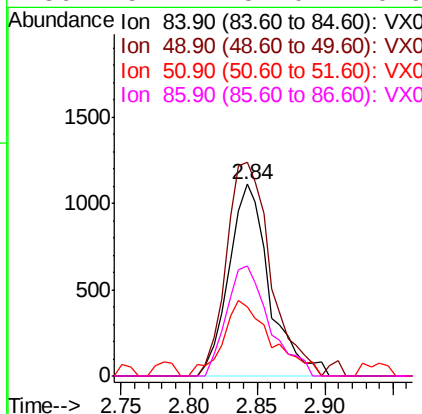
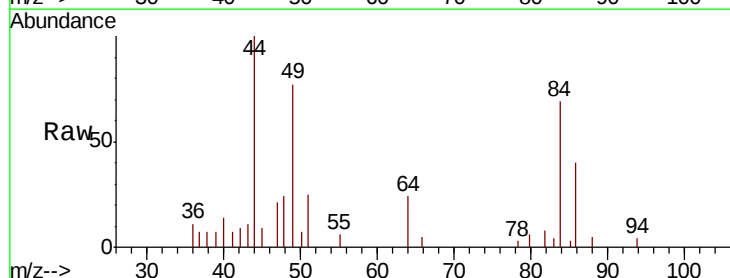
Instrument :
MSVOA_X
ClientSampleId :
SP-1-7

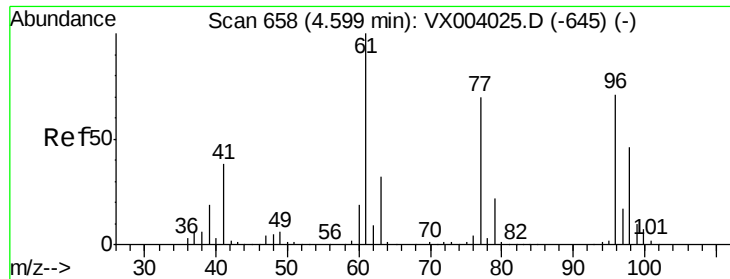
Tot Ion: 43 Resp: 8242
Ion Ratio Lower Upper
43 100
74 23.0 18.9 28.3



#20
Methylene Chloride
Concen: 0.23 ug/l
RT: 2.84 min Scan# 370
Delta R.T. -0.02 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

Tgt Ion: 84 Resp: 2305
Ion Ratio Lower Upper
84 100
49 111.6 98.9 148.3
51 36.3 29.9 44.9
86 57.4 51.0 76.6





#27

cis-1,2-Dichloroethene

Concen: 0.22 ug/l

RT: 4.59 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampled :

SP-1-7

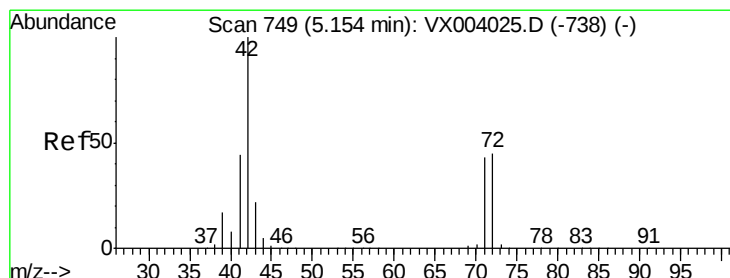
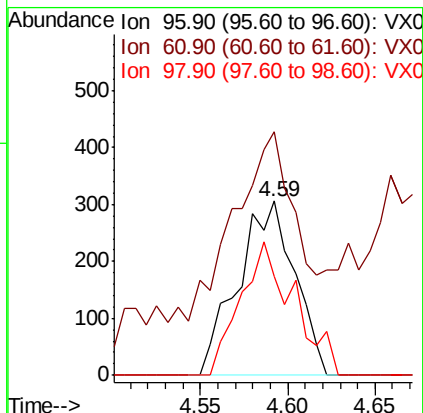
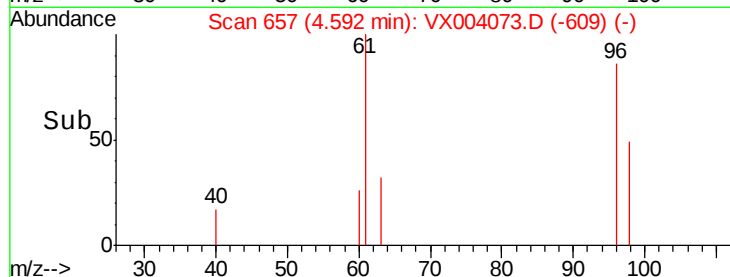
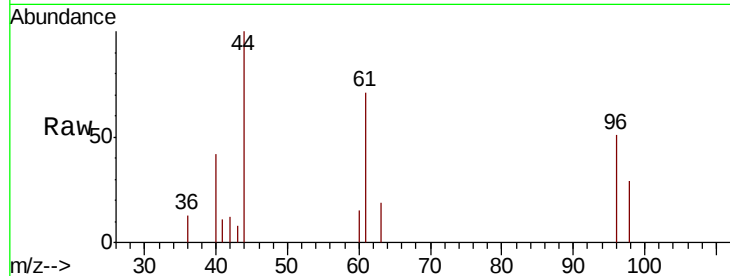
Tot Ion: 96 Resp: 691

Ion Ratio Lower Upper

96 100

61 112.6 0.0 293.0

98 72.1 0.0 131.8



#29

Tetrahydrofuran

Concen: 0.85 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.02 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

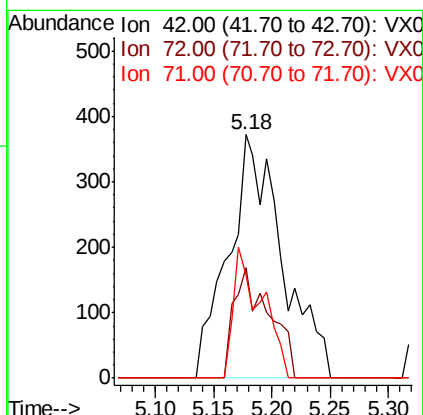
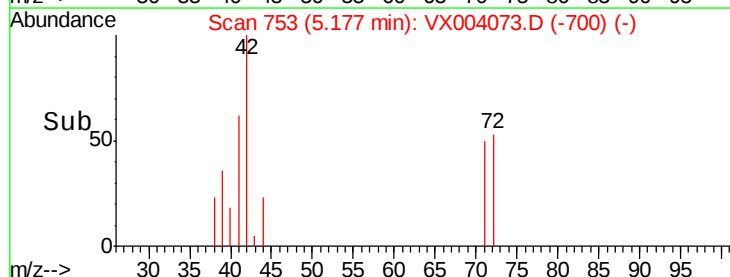
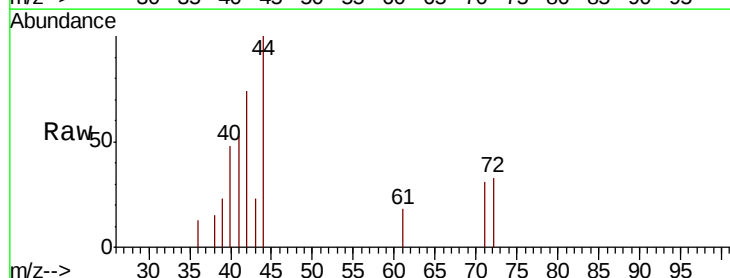
Tgt Ion: 42 Resp: 1192

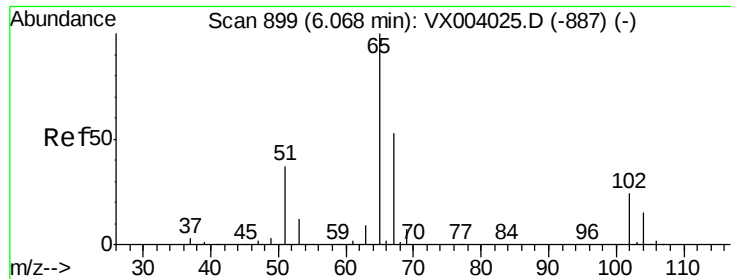
Ion Ratio Lower Upper

42 100

72 30.1 37.7 56.5#

71 28.6 35.0 52.6#

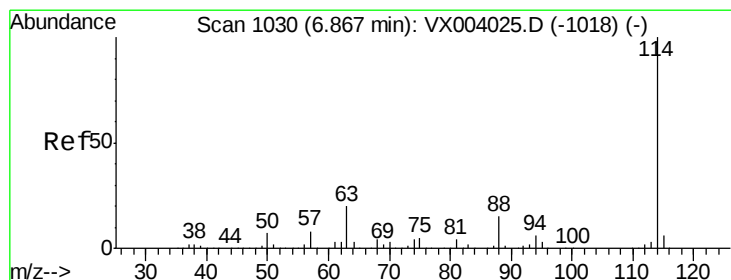
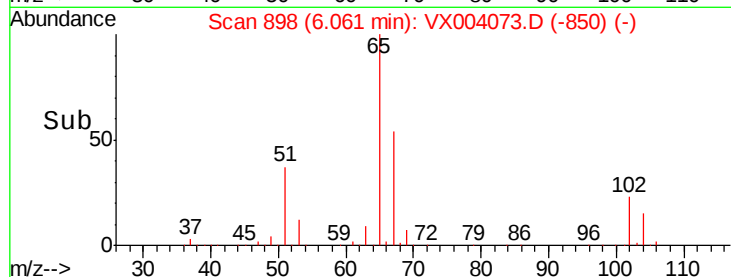
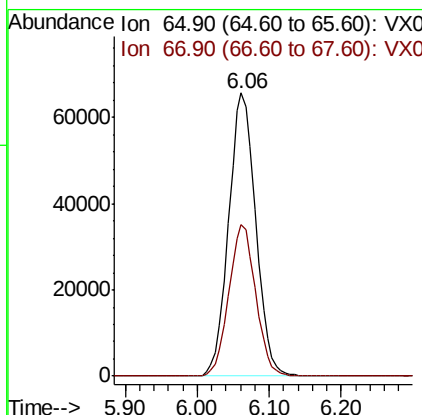
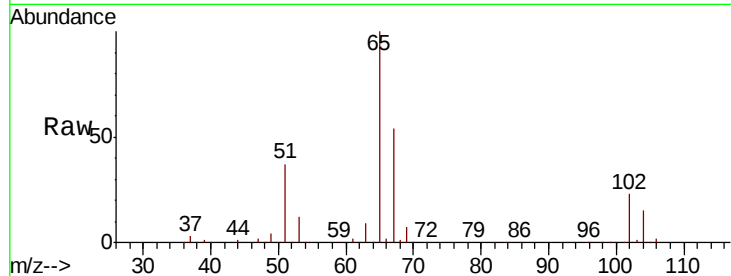




#33
 1,2-Dichloroethane-d4
 Concen: 53.21 ug/l
 RT: 6.06 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VX004073.D
 Acq: 15 Aug 2018 15:34

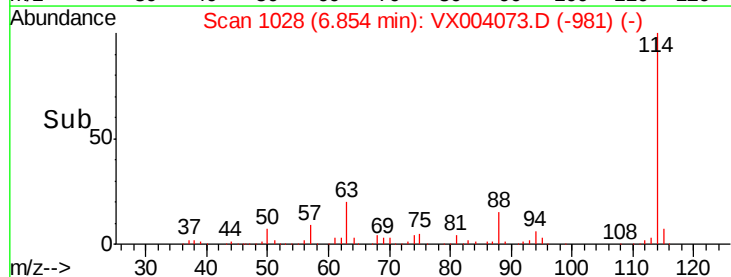
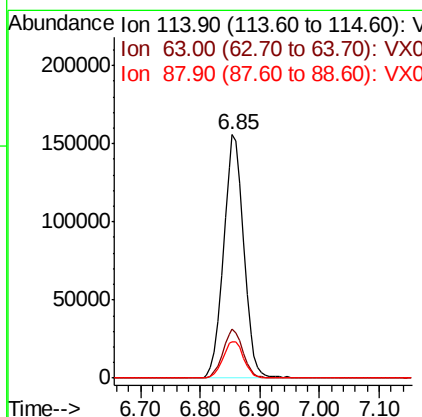
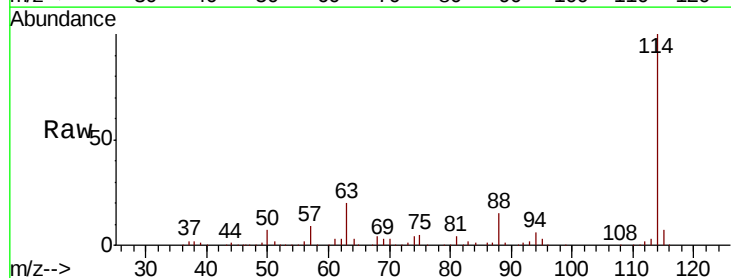
Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-7

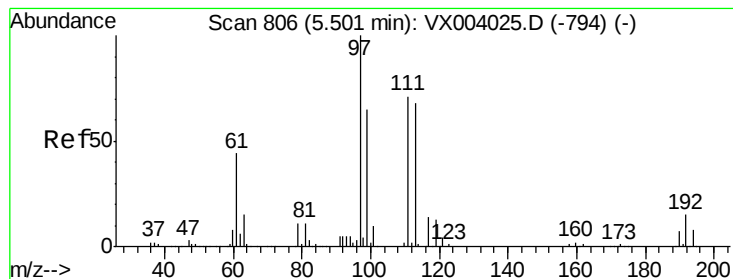
Tot Ion: 65 Resp: 172203
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: VX004073.D
 Acq: 15 Aug 2018 15:34

Tgt Ion: 114 Resp: 366560
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.0
 88 15.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.14 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

SP-1-7

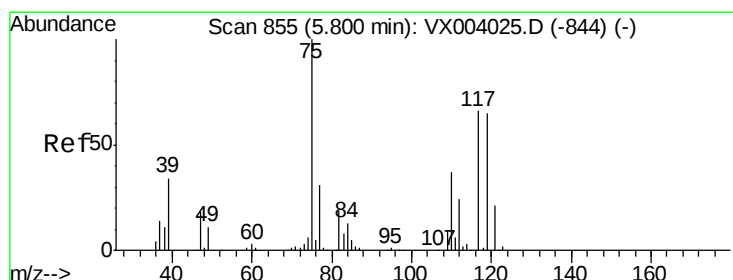
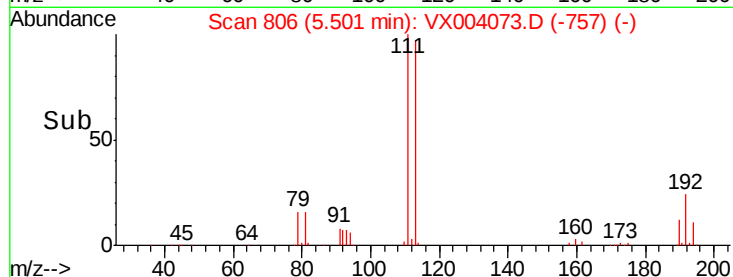
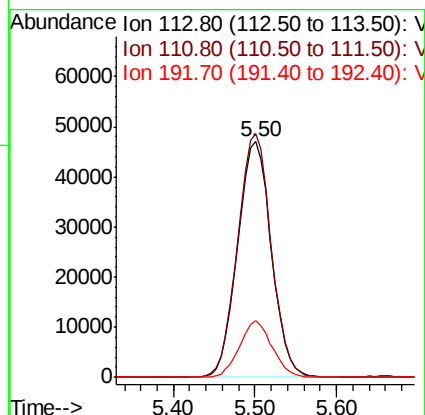
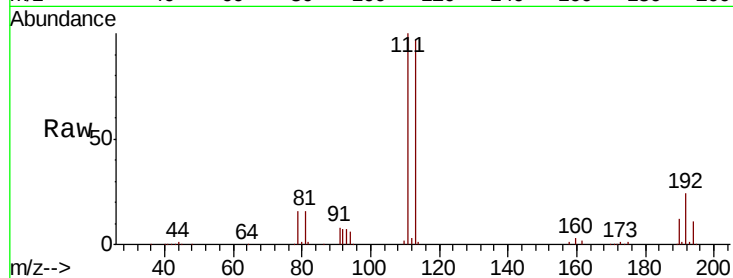
Tot Ion:113 Resp: 134810

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

192 23.2 19.0 28.4



#36

1,1-Dichloropropene

Concen: 4.27 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.15 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

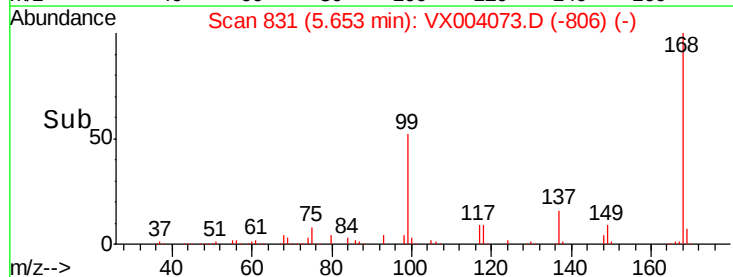
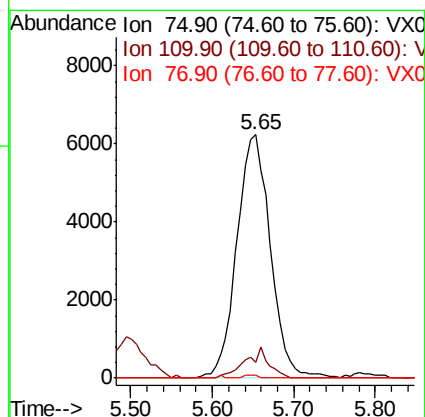
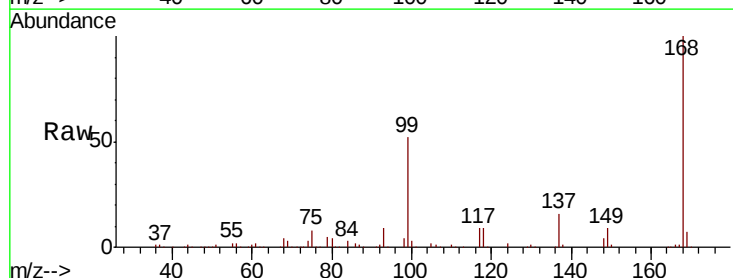
Tgt Ion: 75 Resp: 17815

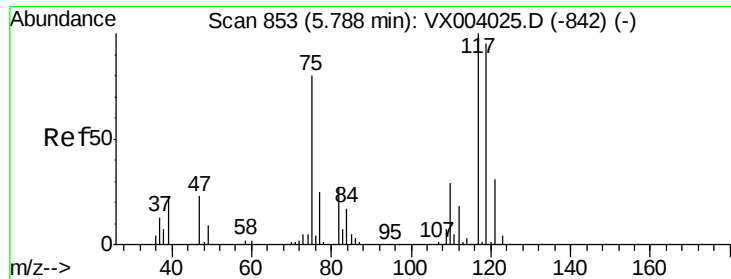
Ion Ratio Lower Upper

75 100

110 8.6 18.2 54.6#

77 0.4 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

SP-1-7

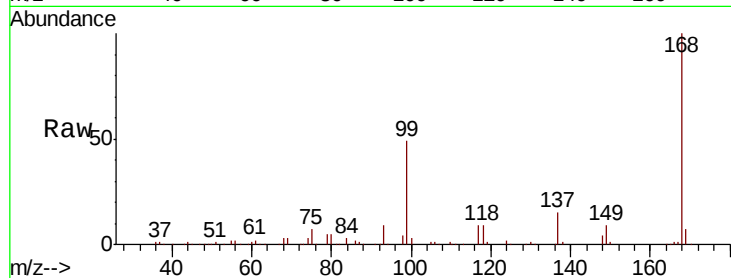
Tot Ion:117 Resp: 20767

Ion Ratio Lower Upper

117 100

119 6.9 79.5 119.3#

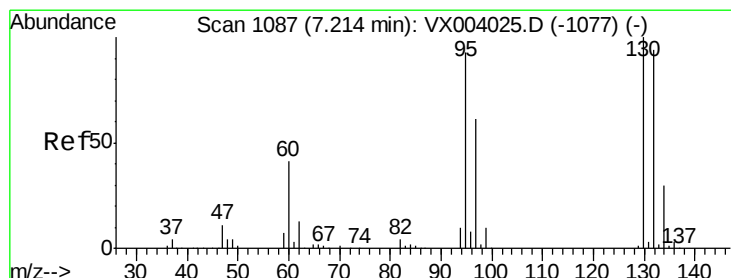
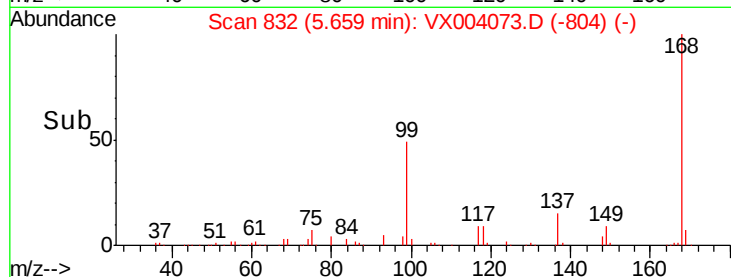
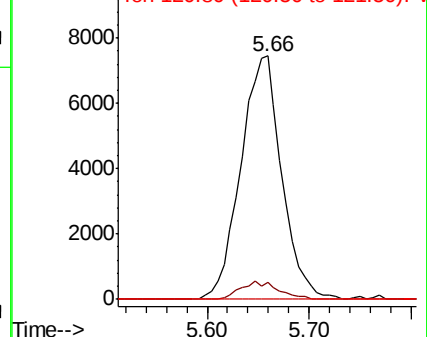
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.51 ug/l

RT: 7.21 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX004073.D

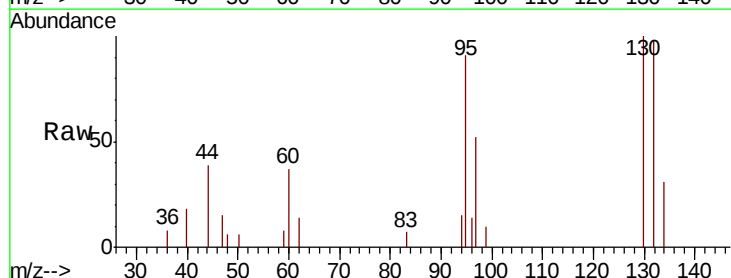
Acq: 15 Aug 2018 15:34

Tgt Ion:130 Resp: 1727

Ion Ratio Lower Upper

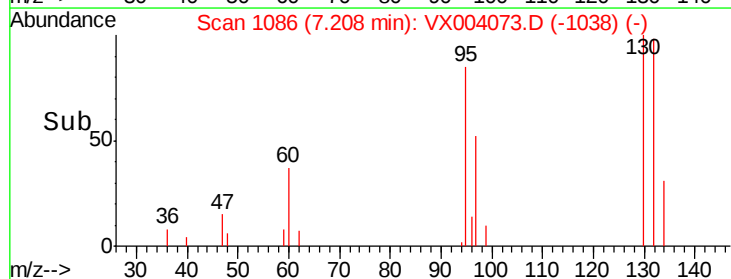
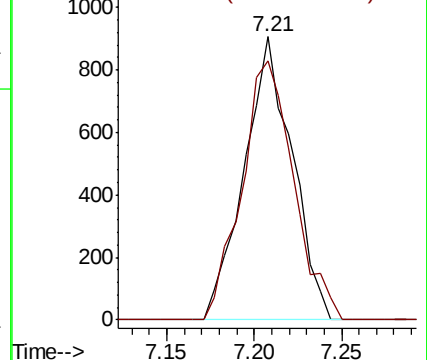
130 100

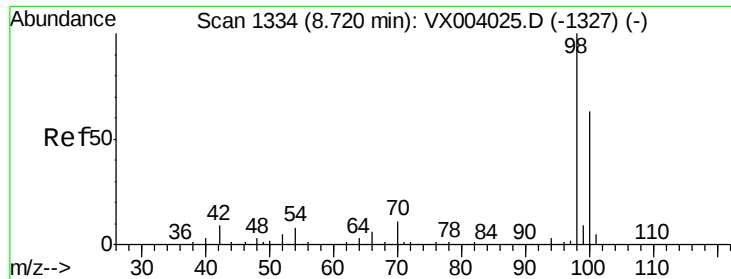
95 91.4 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 47.83 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

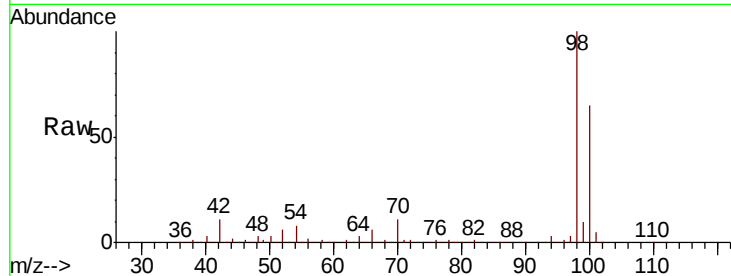
SP-1-7

Tot Ion: 98 Resp: 532041

Ion Ratio Lower Upper

98 100

100 65.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

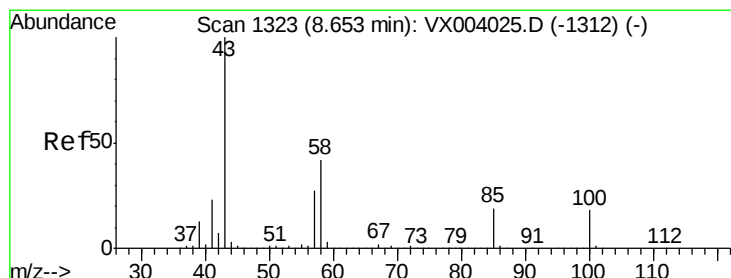
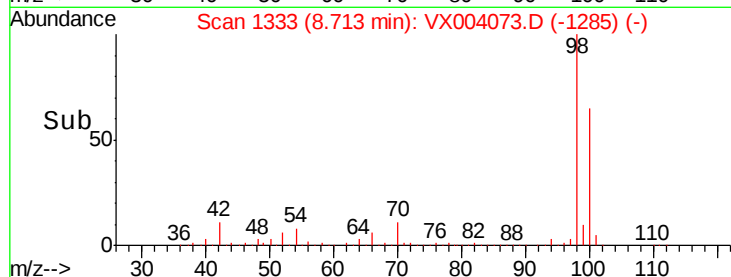
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.47 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004073.D

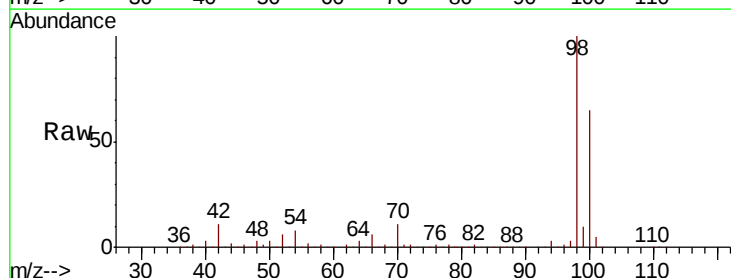
Acq: 15 Aug 2018 15:34

Tgt Ion: 43 Resp: 2606

Ion Ratio Lower Upper

43 100

58 172.3 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

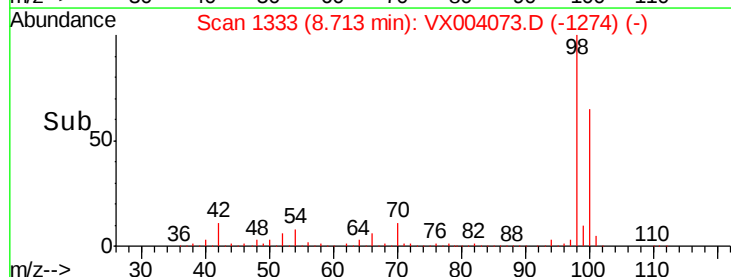
3000

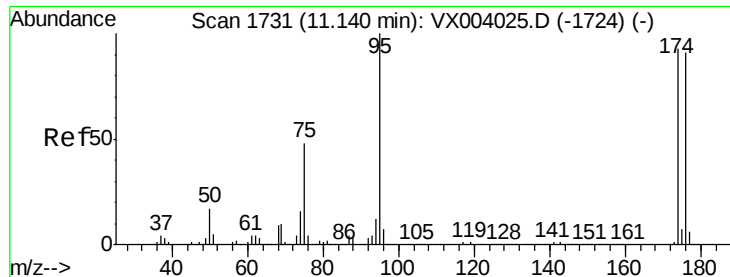
2000

1000

0

Time-->

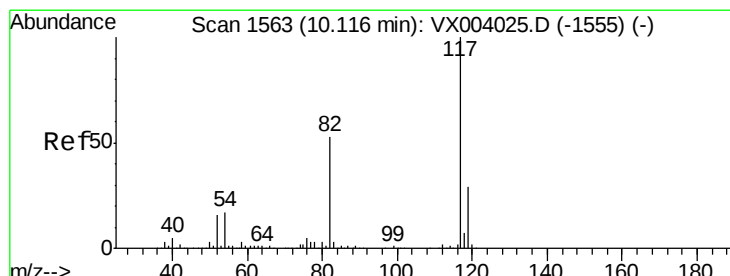
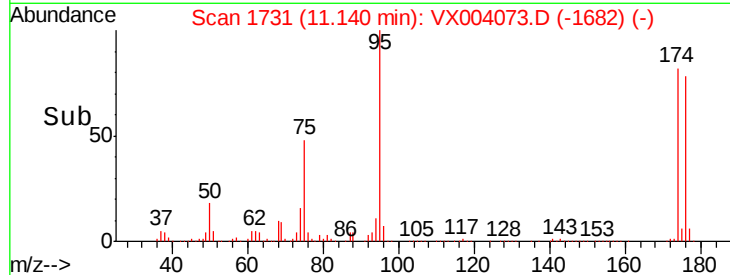
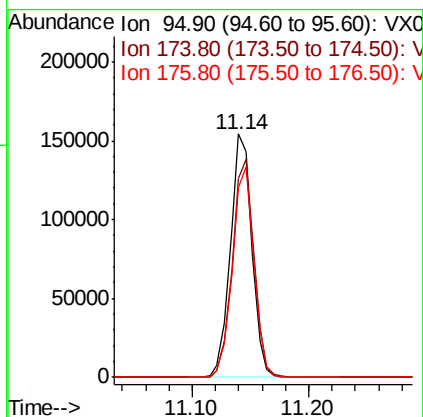
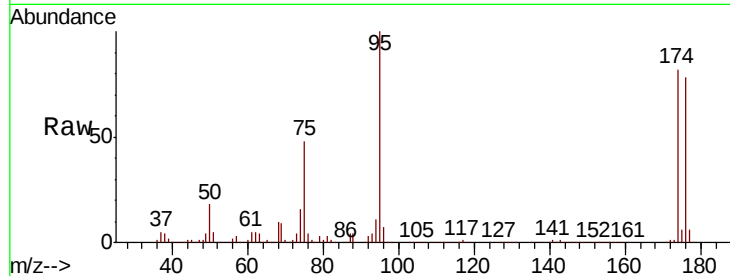




#62
4-Bromofluorobenzene
Concen: 49.32 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

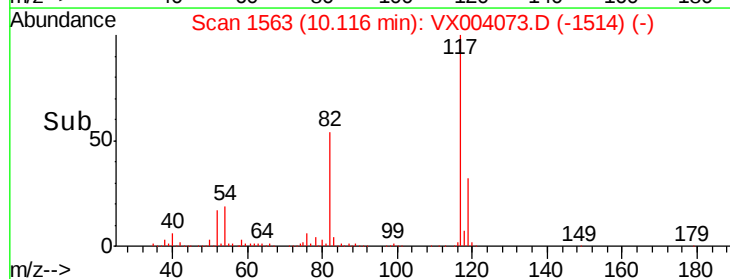
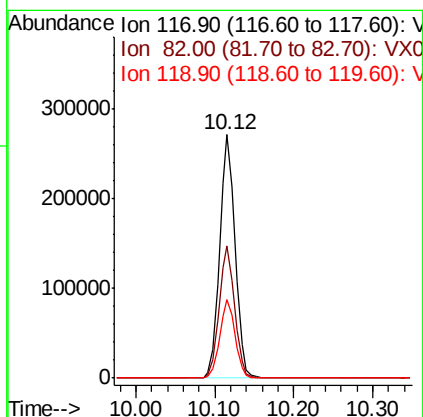
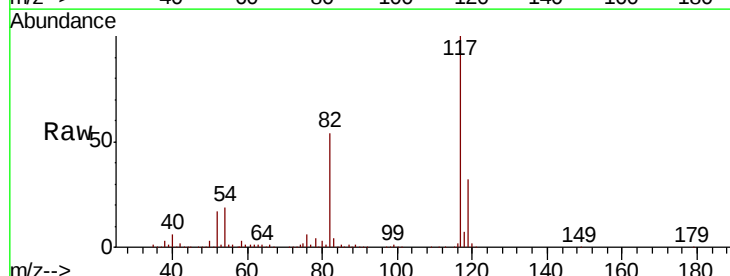
Instrument :
MSVOA_X
ClientSampleId :
SP-1-7

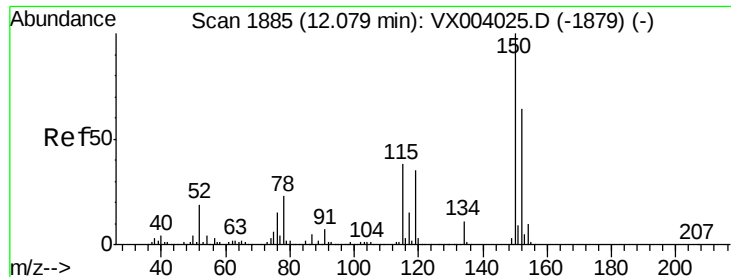
Tot Ion: 95 Resp: 198979
Ion Ratio Lower Upper
95 100
174 90.6 0.0 182.8
176 86.4 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004073.D
Acq: 15 Aug 2018 15:34

Tgt Ion: 117 Resp: 369053
Ion Ratio Lower Upper
117 100
82 54.4 45.4 68.0
119 32.4 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

SP-1-7

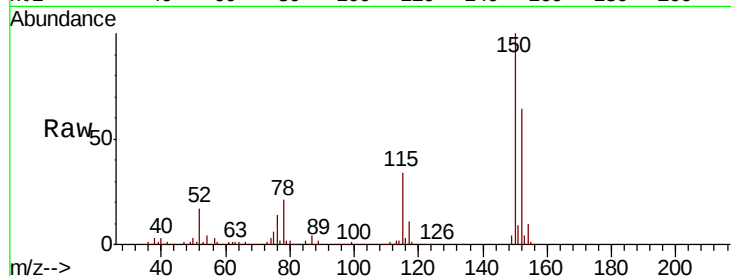
Tot Ion:152 Resp: 214839

Ion Ratio Lower Upper

152 100

115 55.4 39.1 117.3

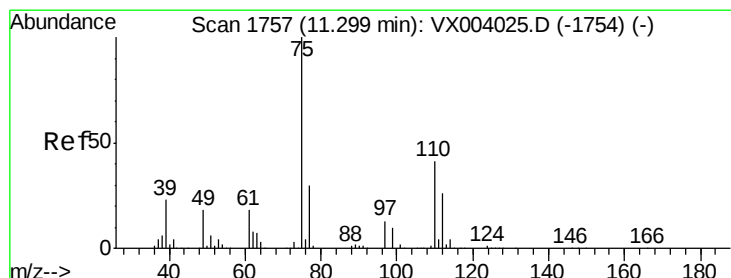
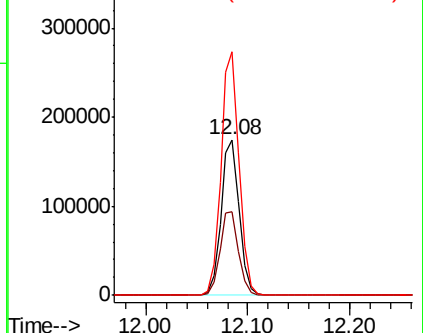
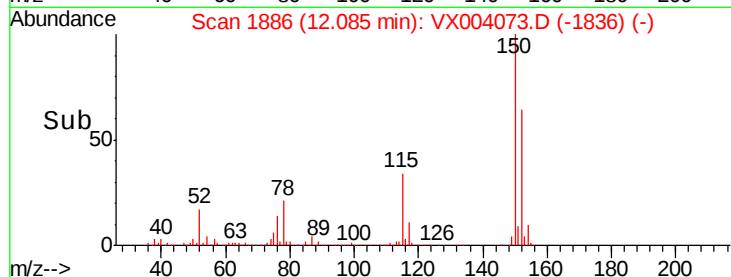
150 157.1 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004073.D

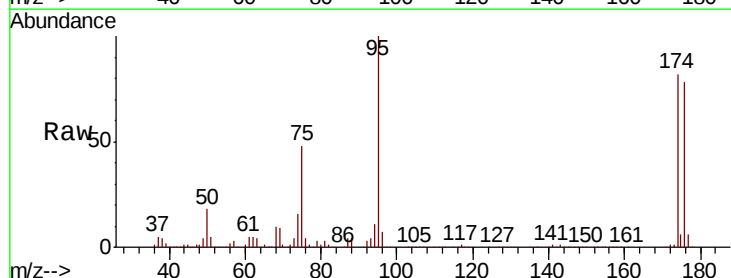
Acq: 15 Aug 2018 15:34

Tgt Ion: 75 Resp: 97625

Ion Ratio Lower Upper

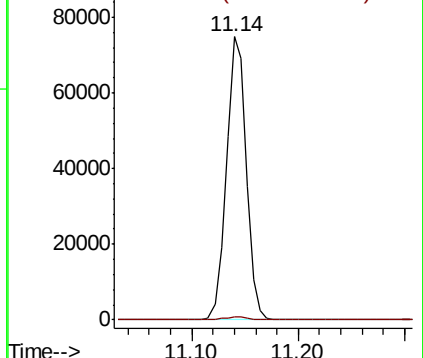
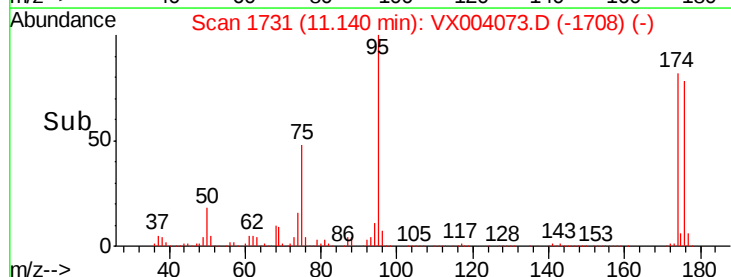
75 100

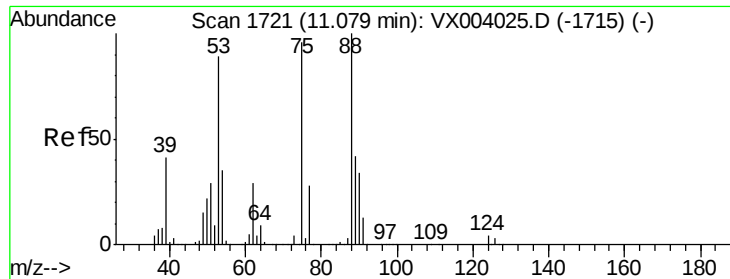
77 1.3 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

Instrument :

MSVOA_X

ClientSampleId :

SP-1-7

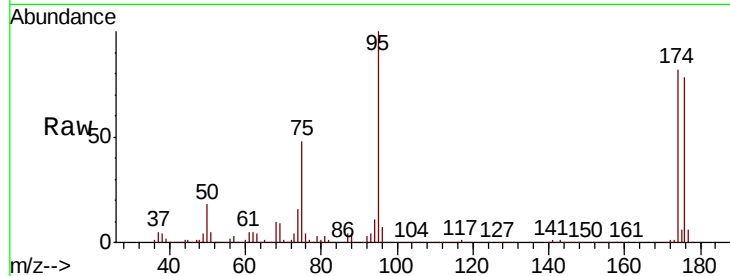
Tot Ion: 75 Resp: 97625

Ion Ratio Lower Upper

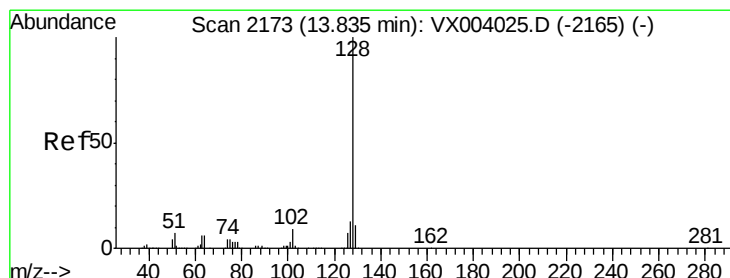
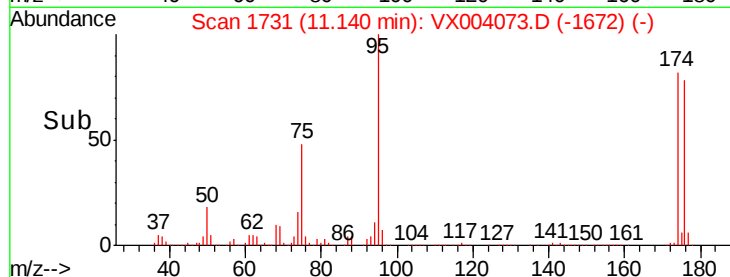
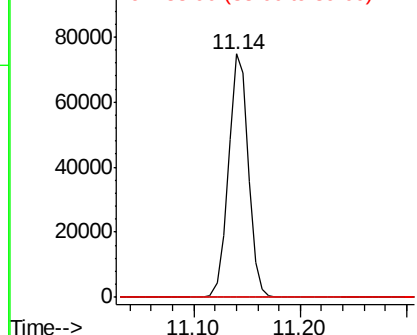
75 100

53 0.3 80.3 120.5#

89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 1.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004073.D

Acq: 15 Aug 2018 15:34

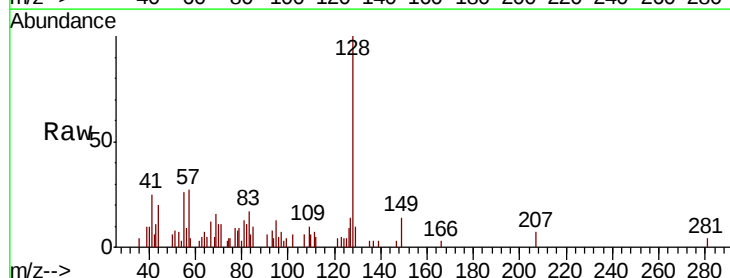
Tgt Ion: 128 Resp: 2245

Ion Ratio Lower Upper

128 100

127 15.2 10.2 15.2

129 13.4 8.8 13.2#



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

