

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004133.D
 Acq On : 17 Aug 2018 15:43
 Operator : JC/MD
 Sample : J4522-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 01:32:48 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	5.67	168	241612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	375085	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192364	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	181044	53.18	ug/l	0.00
Spiked Amount						
			Recovery	=	106.36%	
35) Dibromofluoromethane	5.51	113	155256	55.31	ug/l	0.00
Spiked Amount						
			Recovery	=	110.62%	
50) Toluene-d8	8.72	98	539733	47.42	ug/l	0.00
Spiked Amount						
			Recovery	=	94.84%	
62) 4-Bromofluorobenzene	11.14	95	181915	44.07	ug/l	0.00
Spiked Amount						
			Recovery	=	88.14%	

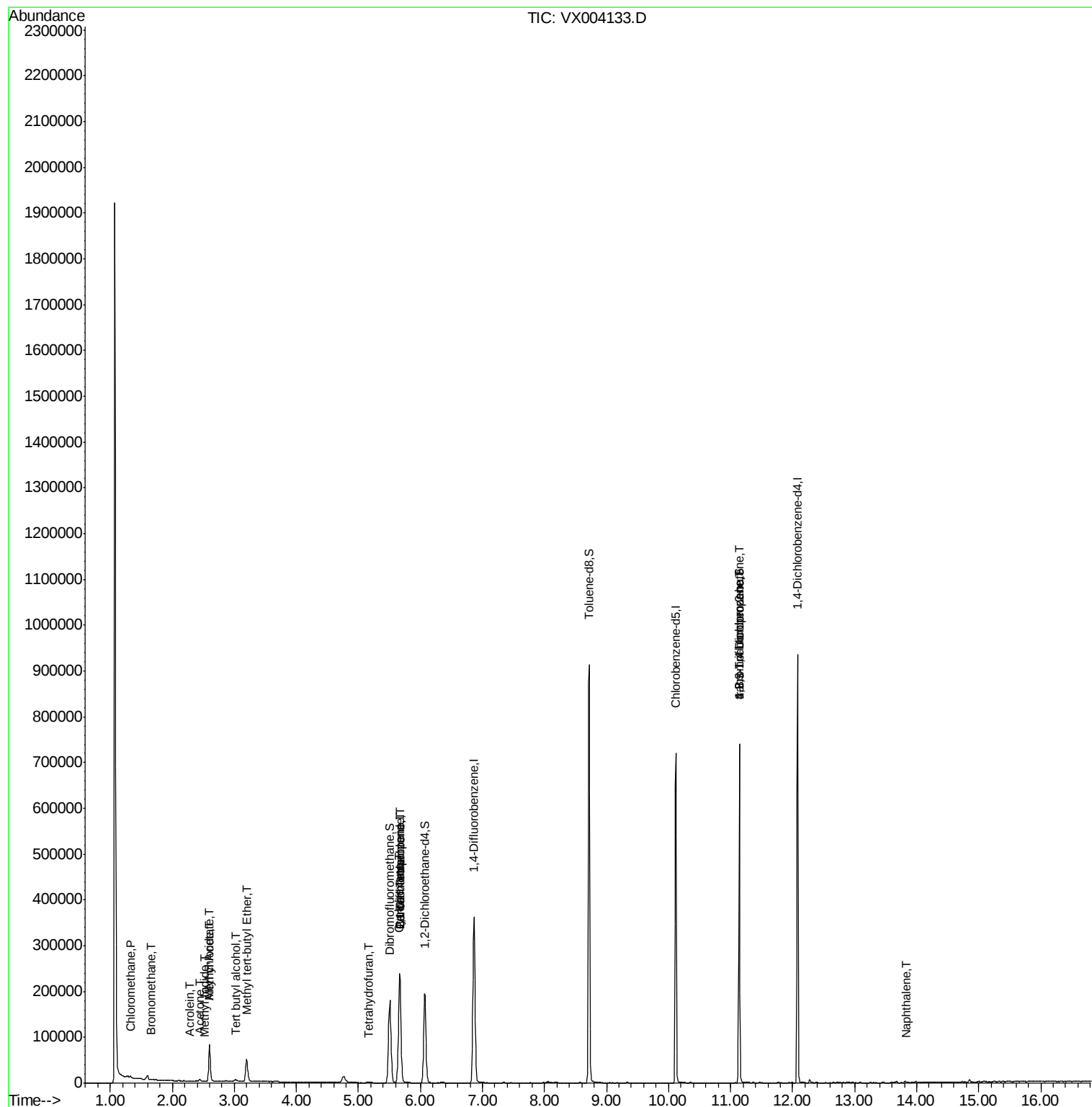
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	5485	1.90	ug/l	94
5) Bromomethane	1.65	94	981	0.44	ug/l	96
6) Chloroethane	1.70	64	268	Below Cal	#	42
10) Methyl Iodide	2.52	142	443	5.15	ug/l	# 84
11) Tert butyl alcohol	3.03	59	2910	4.24	ug/l	# 73
13) Acrolein	2.29	56	121	11.20	ug/l	# 46
14) Allyl chloride	2.60	41	8108	1.68	ug/l	# 55
16) Acetone	2.44	43	5026	2.84	ug/l	96
18) Methyl Acetate	2.60	43	22417	5.70	ug/l	# 52
19) Methyl tert-butyl Ether	3.20	73	55495	6.20	ug/l	99
20) Methylene Chloride	2.86	84	297	Below Cal		95
29) Tetrahydrofuran	5.16	42	1717	1.17	ug/l	# 82
31) Cyclohexane	5.65	56	4540	0.96	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16493	3.86	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	21492	5.18	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	87863	22.78	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	87863	70.50	ug/l	# 9
95) Naphthalene	13.83	128	762	1.20	ug/l	99

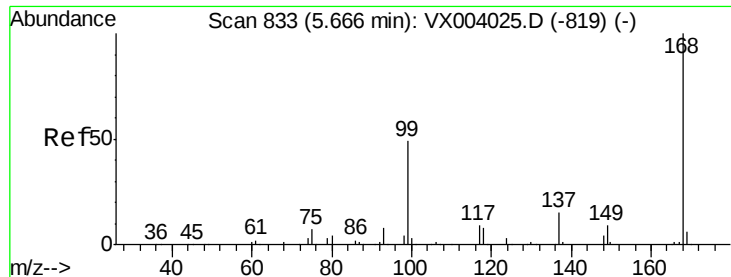
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

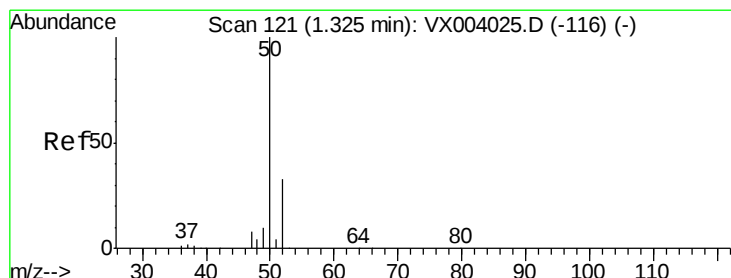
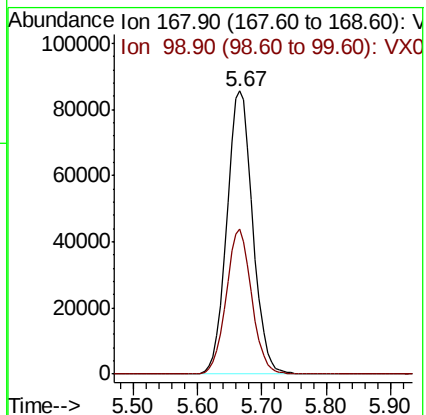
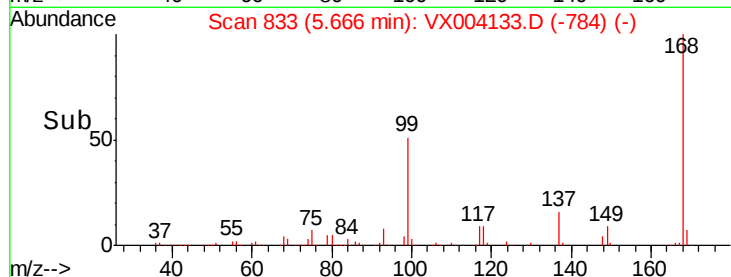
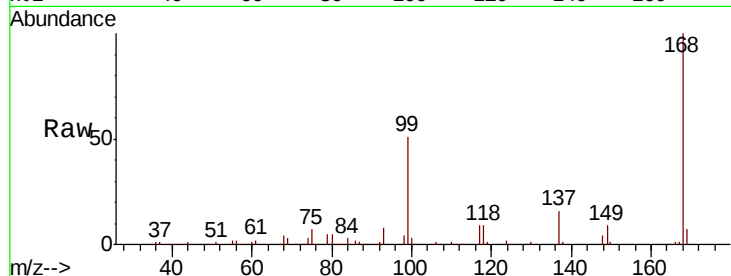
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 241612

Ion Ratio Lower Upper

168 100

99 51.2 40.1 60.1



#3

Chloromethane

Concen: 1.90 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004133.D

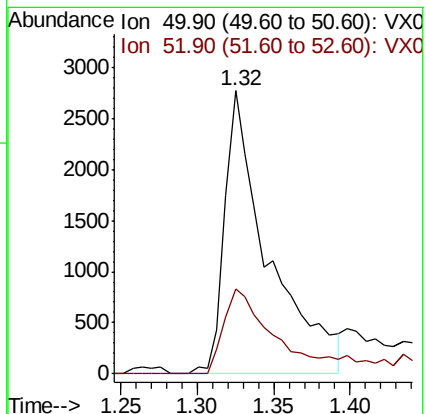
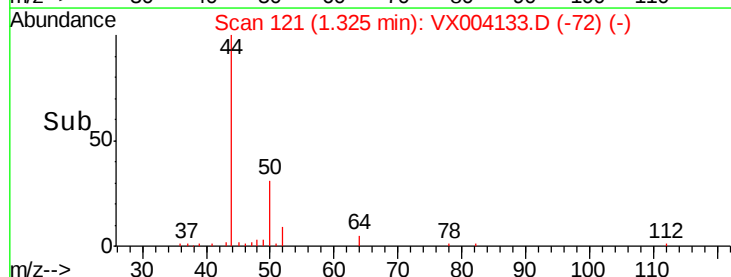
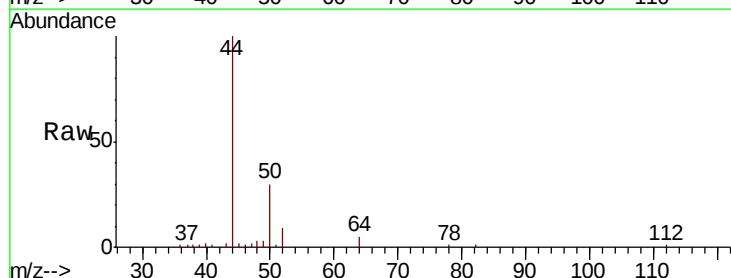
Acq: 17 Aug 2018 15:43

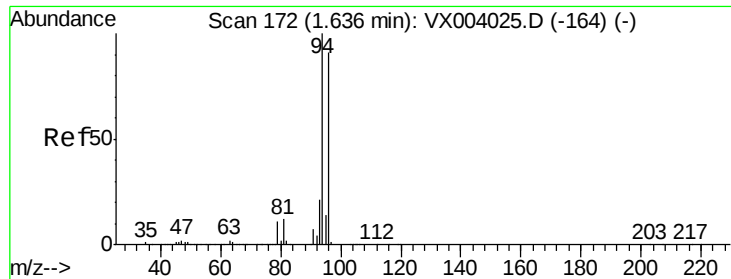
Tgt Ion: 50 Resp: 5485

Ion Ratio Lower Upper

50 100

52 29.9 26.6 39.8





#5

Bromomethane

Concen: 0.44 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

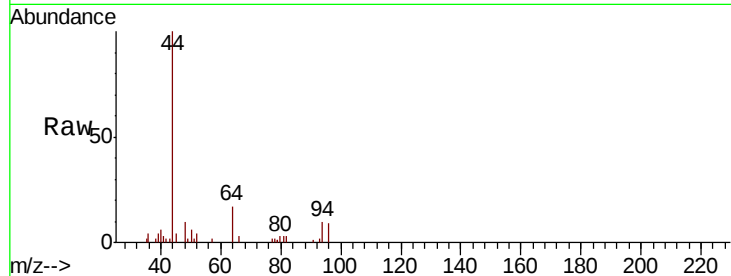
ClientSampled :

Tot Ion: 94 Resp: 981

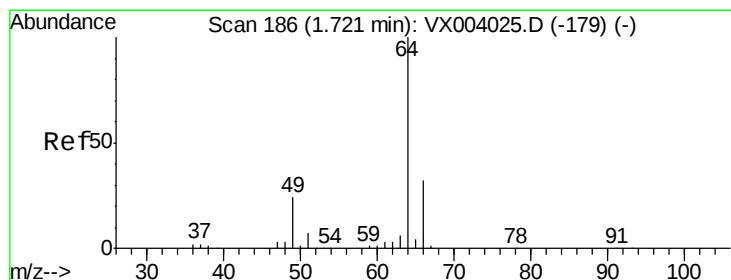
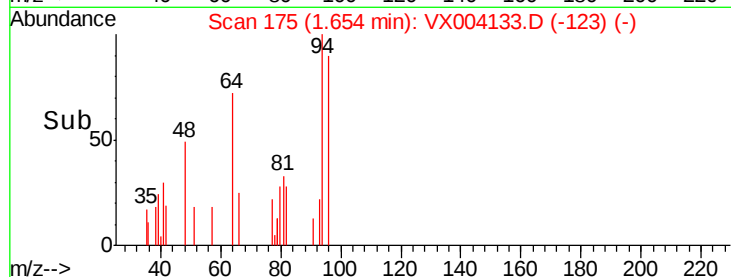
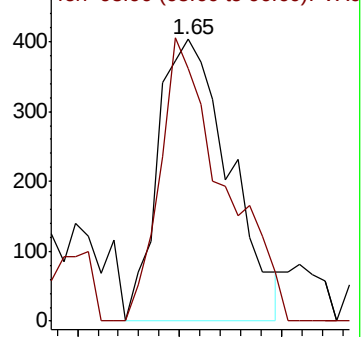
Ion Ratio Lower Upper

94 100

96 89.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX004133.D

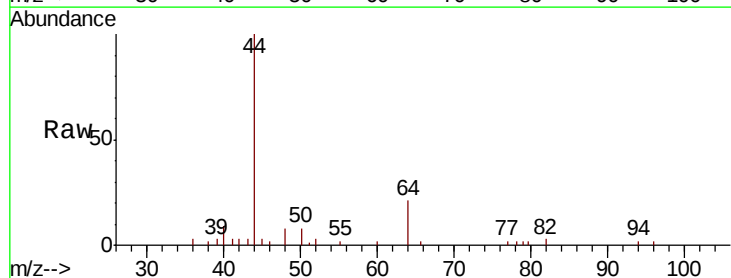
Acq: 17 Aug 2018 15:43

Tgt Ion: 64 Resp: 268

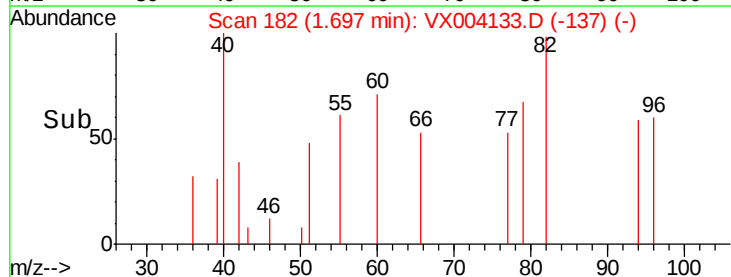
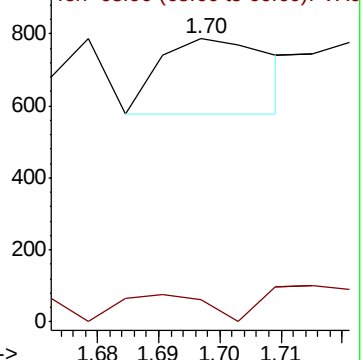
Ion Ratio Lower Upper

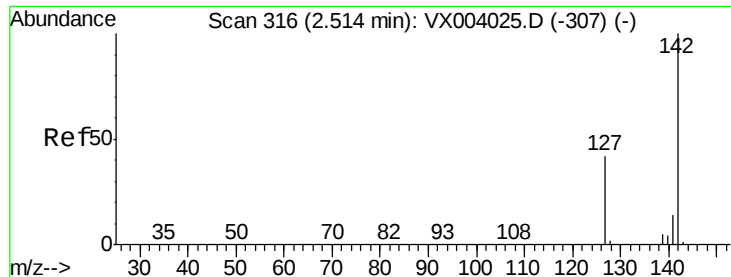
64 100

66 0.0 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

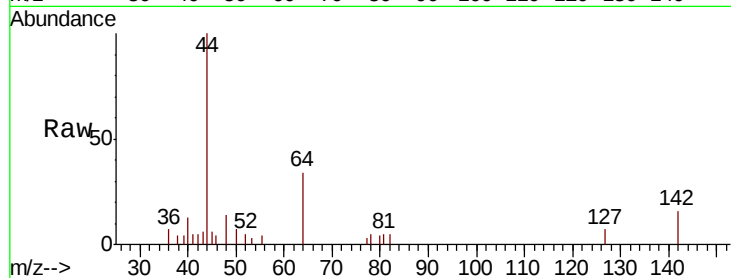




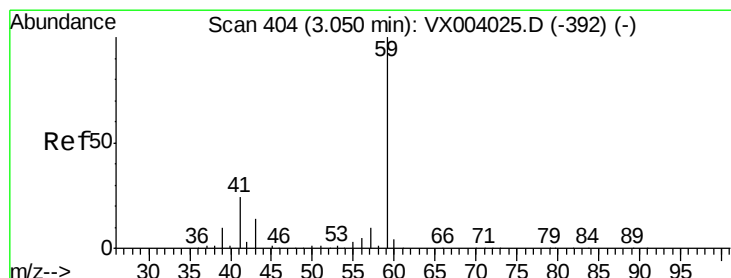
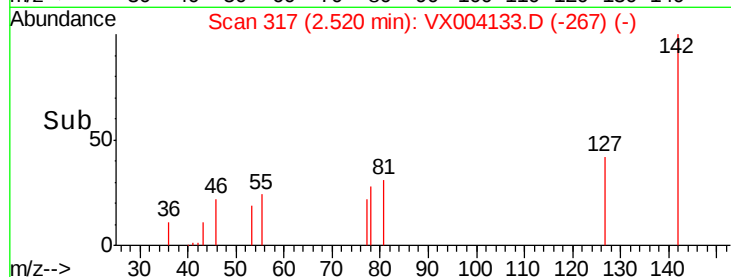
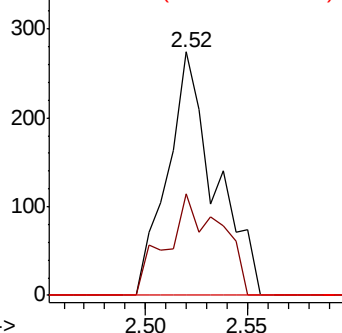
#10
Methyl Iodide
Concen: 5.15 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 443
Ion Ratio Lower Upper
142 100
127 47.4 33.1 49.7
141 0.0 11.1 16.7#

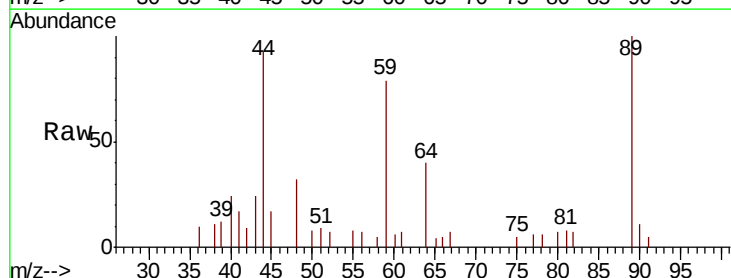


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

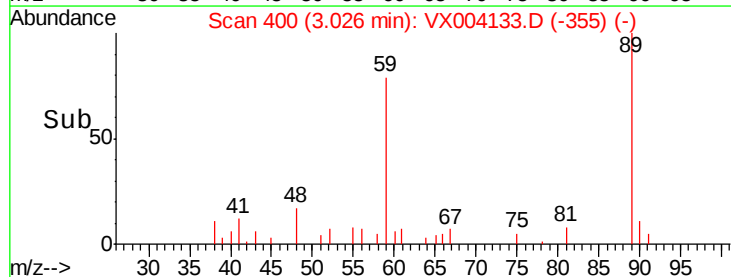
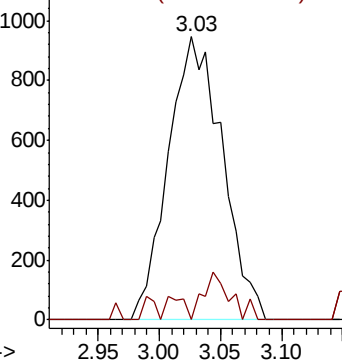


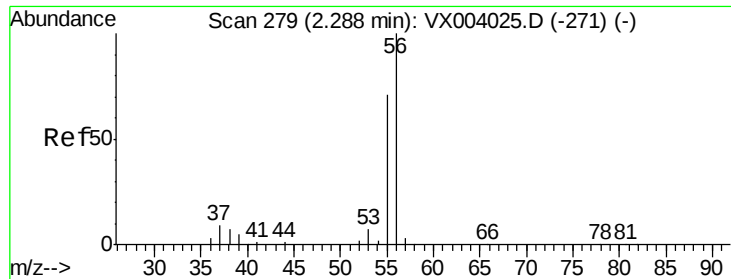
#11
Tert butyl alcohol
Concen: 4.24 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.02 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

Tgt Ion: 59 Resp: 2910
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.20 ug/l

RT: 2.29 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

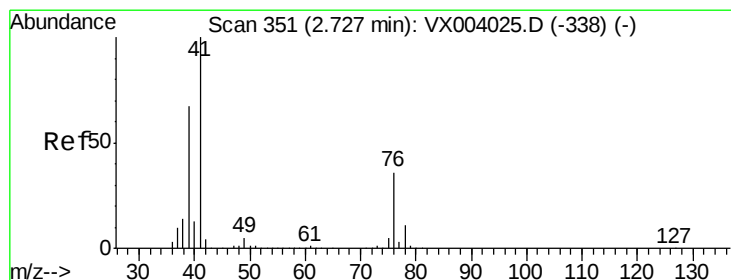
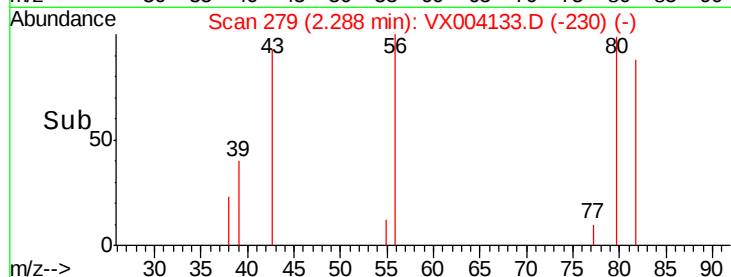
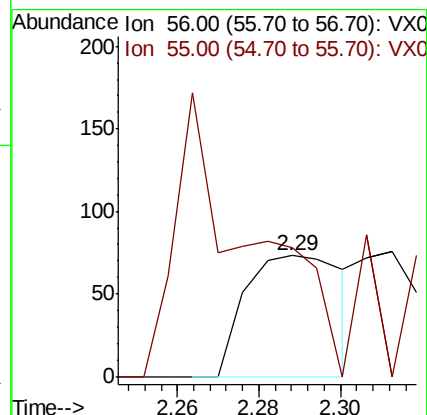
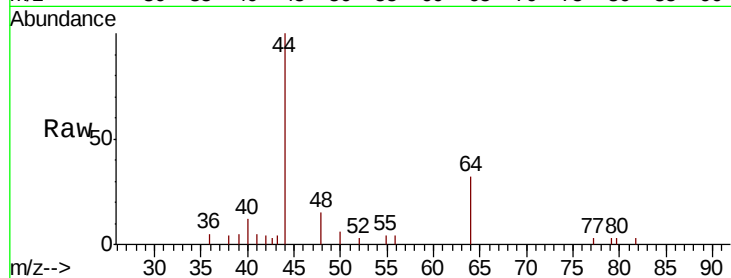
ClientSampleId :

Tot Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 25.6 56.1 84.1#



#14

Allyl chloride

Concen: 1.68 ug/l

RT: 2.60 min Scan# 330

Delta R.T. -0.13 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

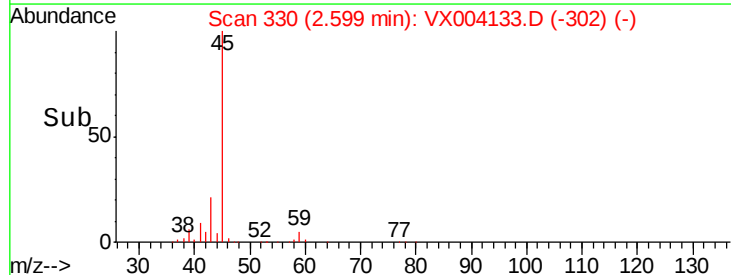
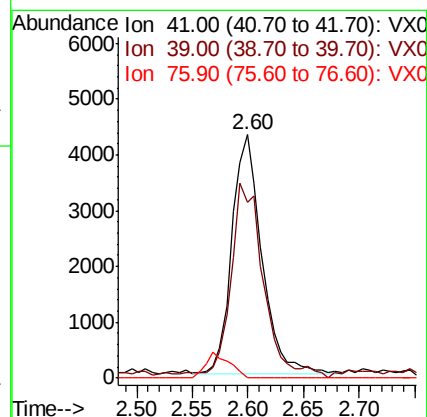
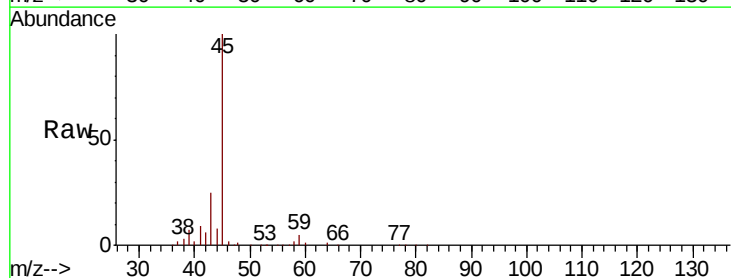
Tgt Ion: 41 Resp: 8108

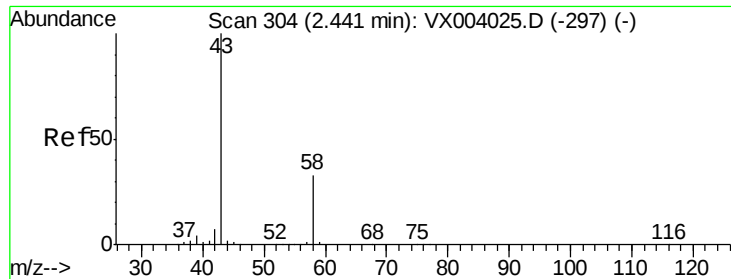
Ion Ratio Lower Upper

41 100

39 87.7 47.4 71.0#

76 0.0 26.0 39.0#





#16

Acetone

Concen: 2.84 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

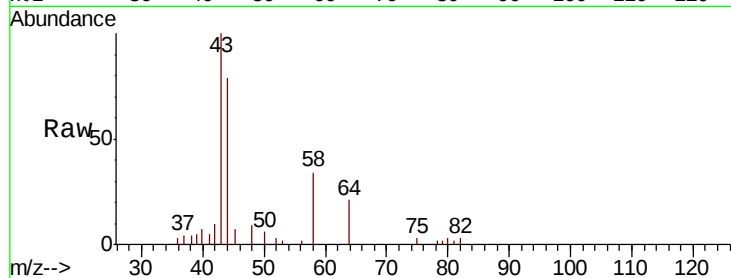
ClientSampleId :

Tot Ion: 43 Resp: 5026

Ion Ratio Lower Upper

43 100

58 35.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

3000

2500

2000

1500

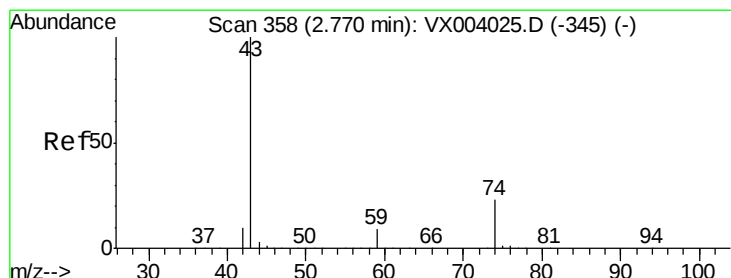
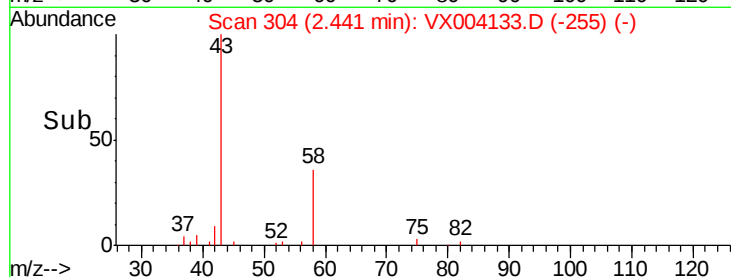
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 5.70 ug/l

RT: 2.60 min Scan# 330

Delta R.T. -0.17 min

Lab File: VX004133.D

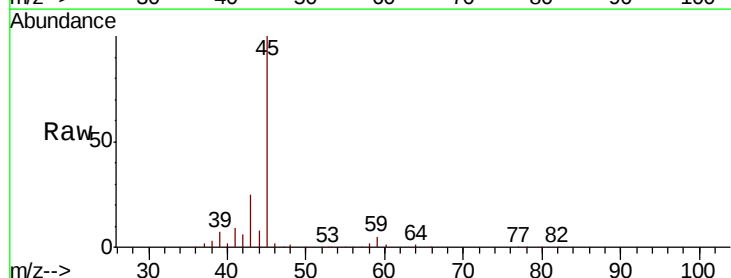
Acq: 17 Aug 2018 15:43

Tgt Ion: 43 Resp: 22417

Ion Ratio Lower Upper

43 100

74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.60

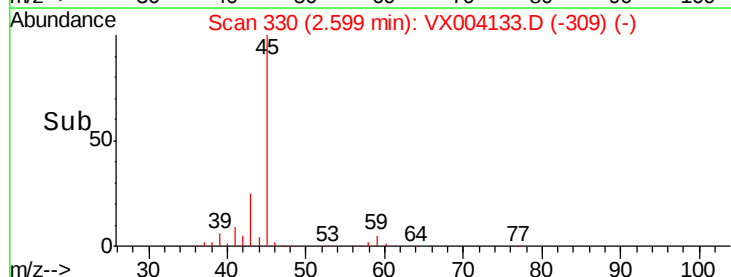
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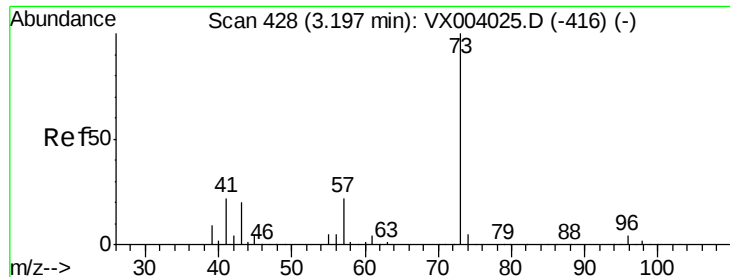
5000

0

Time-->

2.50 2.60 2.70

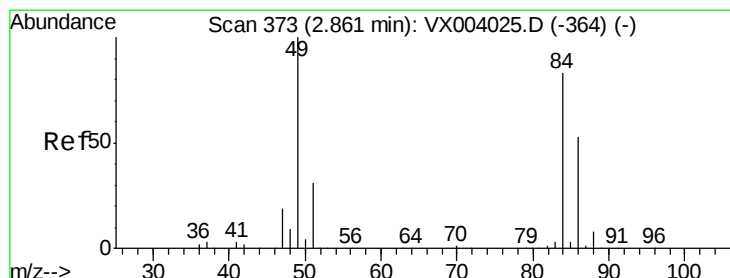
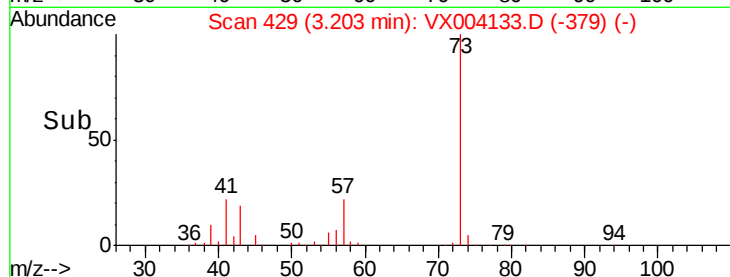
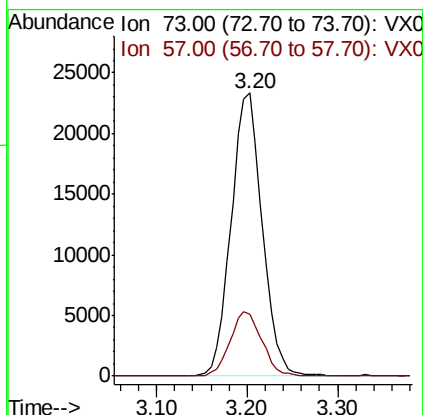
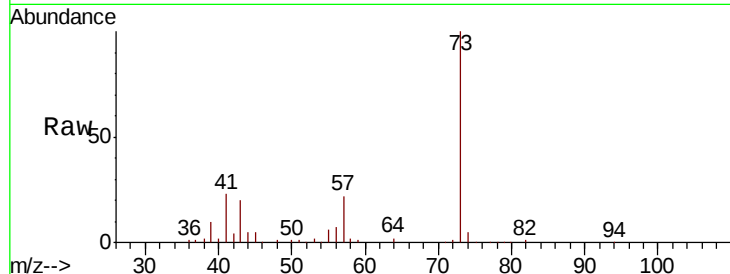




#19
Methvl tert-butvl Ether
Concen: 6.20 ua/l
RT: 3.20 min Scan# 429
Delta R.T. 0.01 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

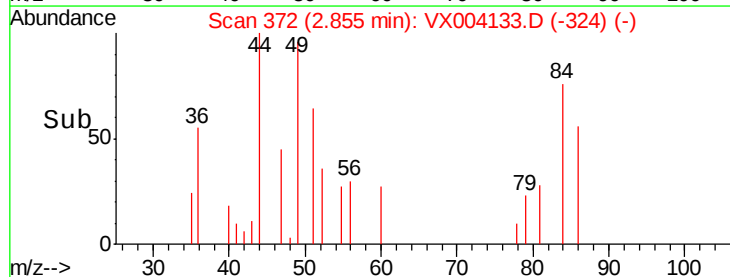
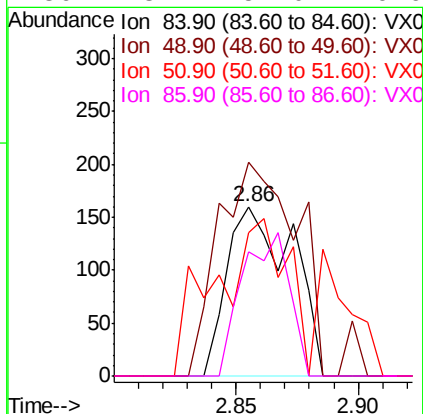
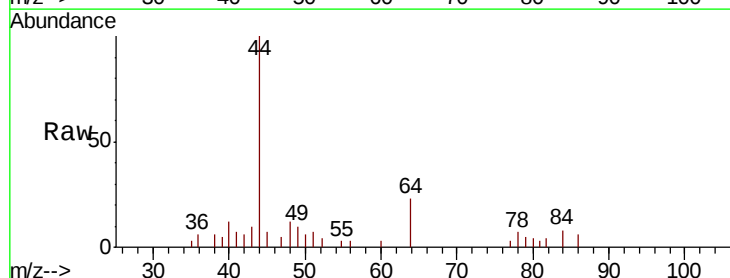
Instrument :
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ClientSampled :

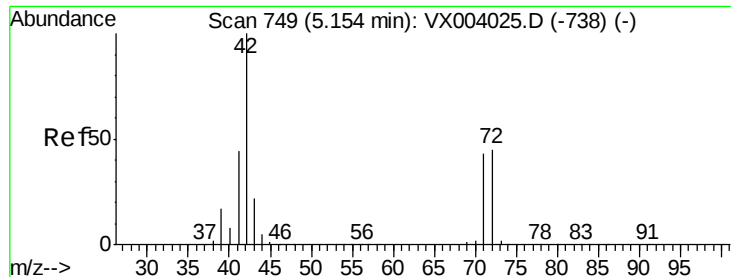
Tot Ion: 73 Resp: 55495
Ion Ratio Lower Upper
73 100
57 21.9 18.0 27.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

Tgt Ion: 84 Resp: 297
Ion Ratio Lower Upper
84 100
49 126.3 98.9 148.3
51 38.1 29.9 44.9
86 73.1 51.0 76.6

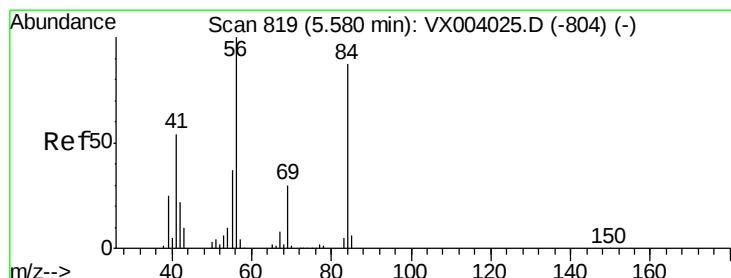
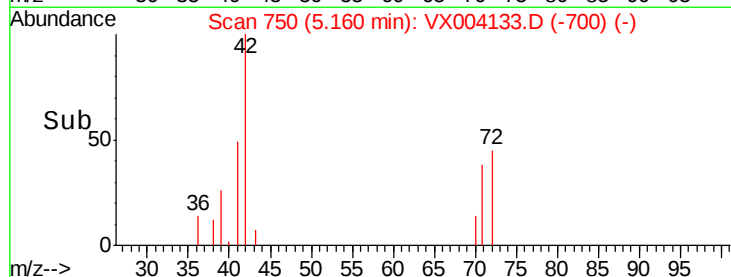
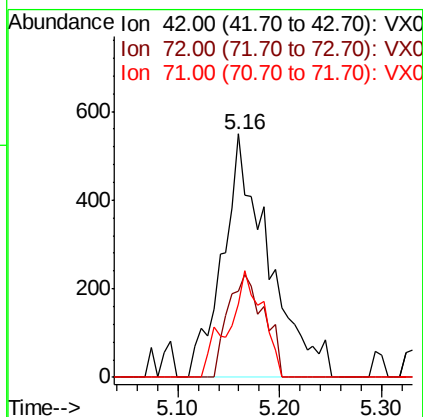
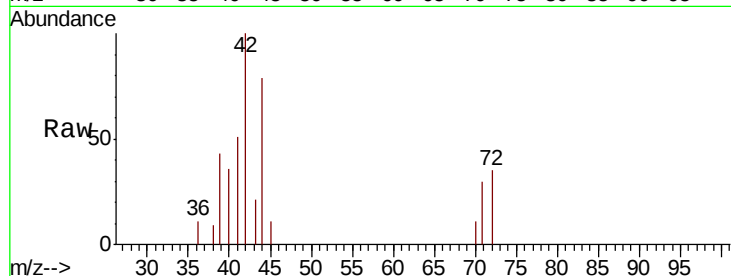




#29
Tetrahydrofuran
Concen: 1.17 ug/l
RT: 5.16 min Scan# 750
Delta R.T. 0.01 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

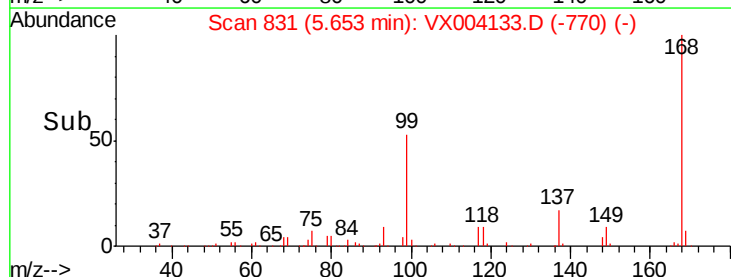
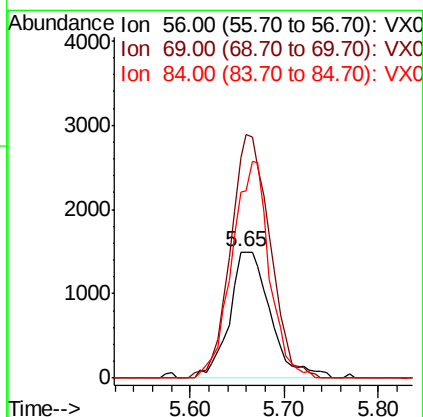
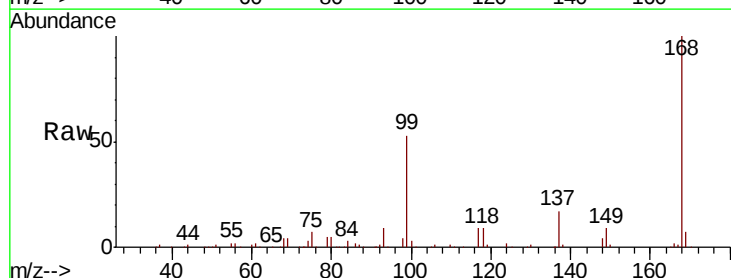
Instrument :
MSVOA_X
ClientSampleId :

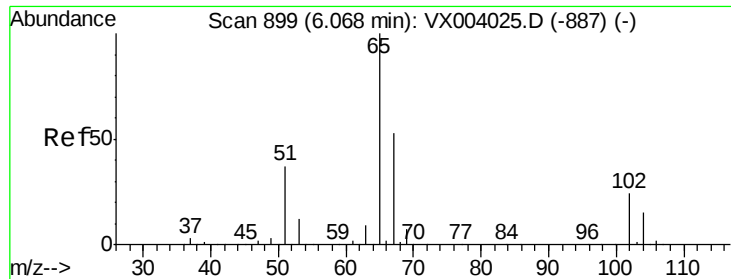
Tot Ion: 42 Resp: 1717
Ion Ratio Lower Upper
42 100
72 33.6 37.7 56.5#
71 33.3 35.0 52.6#



#31
Cyclohexane
Concen: 0.96 ug/l
RT: 5.65 min Scan# 831
Delta R.T. 0.07 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

Tgt Ion: 56 Resp: 4540
Ion Ratio Lower Upper
56 100
69 174.2 24.9 37.3#
84 147.7 71.7 107.5#

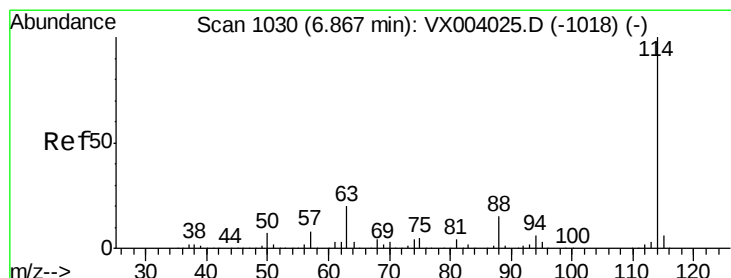
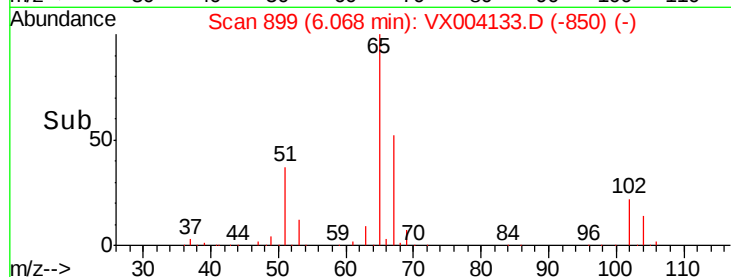
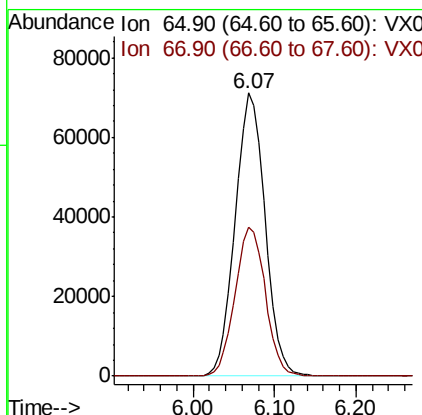
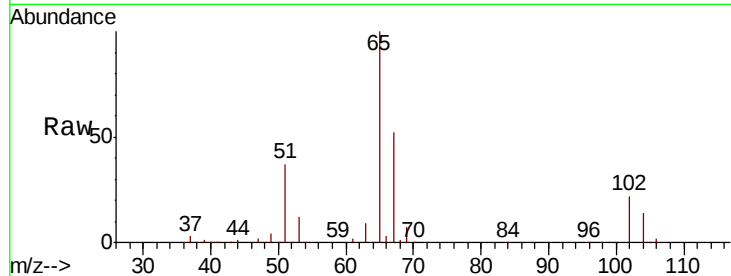




#33
 1,2-Dichloroethane-d4
 Concen: 53.18 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004133.D
 Acq: 17 Aug 2018 15:43

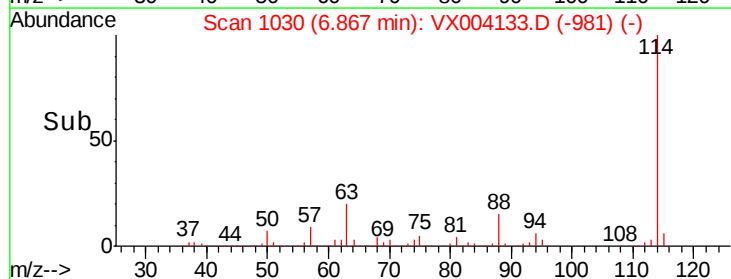
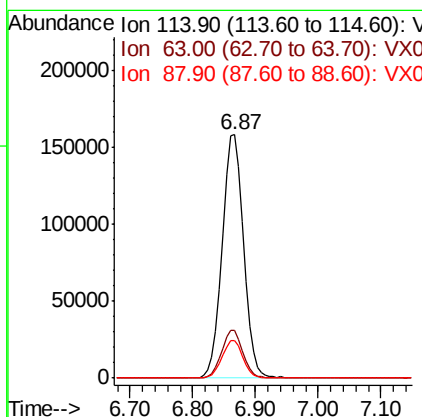
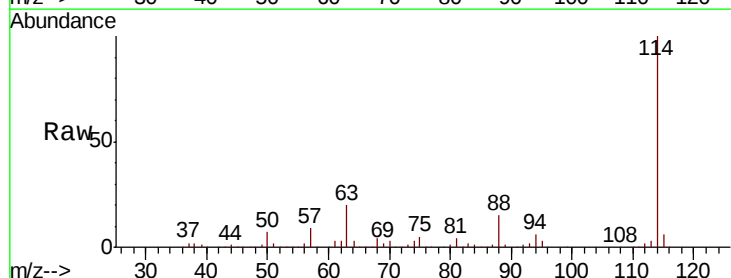
Instrument :
 MSVOA_X
 ClientSampleId :

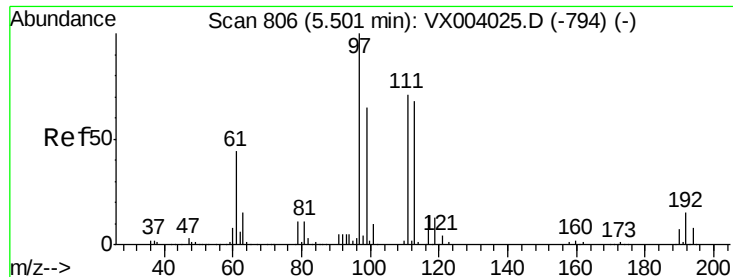
Tot Ion: 65 Resp: 181044
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004133.D
 Acq: 17 Aug 2018 15:43

Tgt Ion:114 Resp: 375085
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 55.31 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

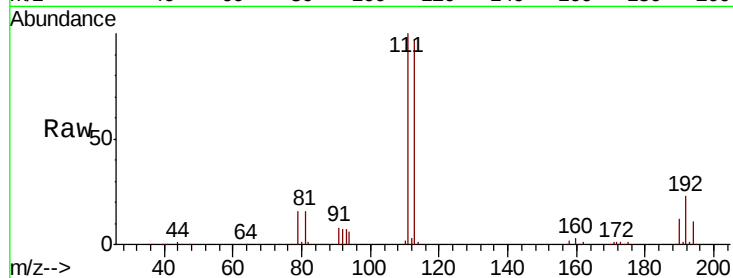
Tot Ion:113 Resp: 155256

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

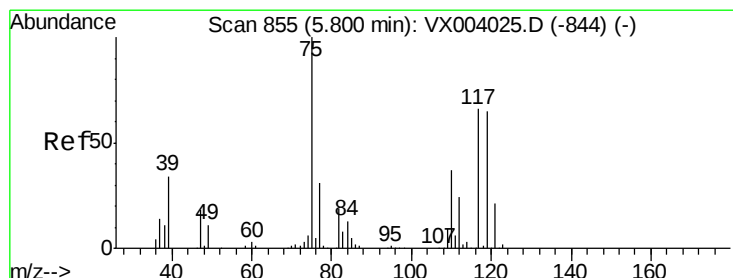
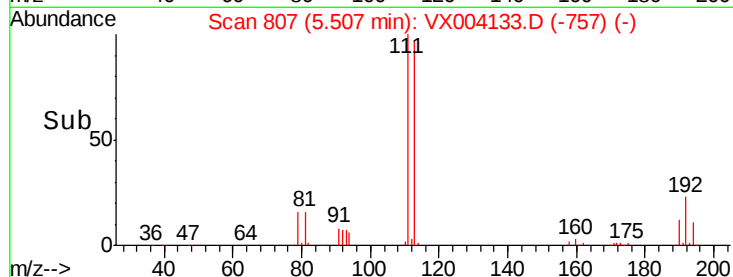
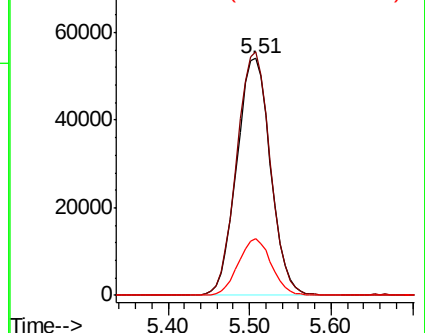
192 23.5 19.0 28.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.86 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

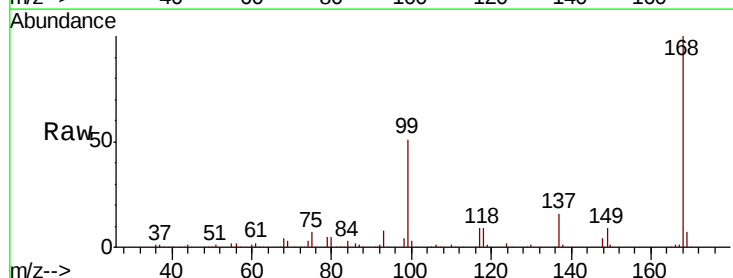
Tgt Ion: 75 Resp: 16493

Ion Ratio Lower Upper

75 100

110 8.9 18.2 54.6#

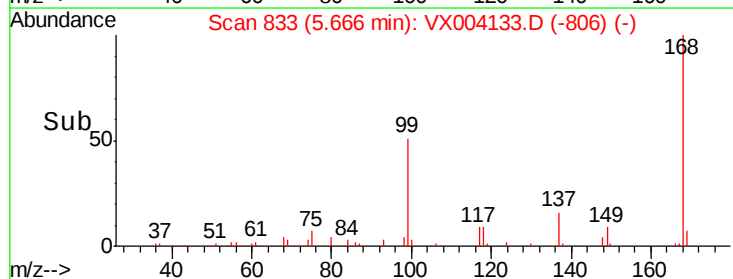
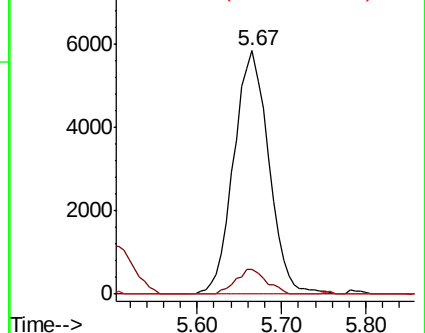
77 0.0 25.0 37.4#

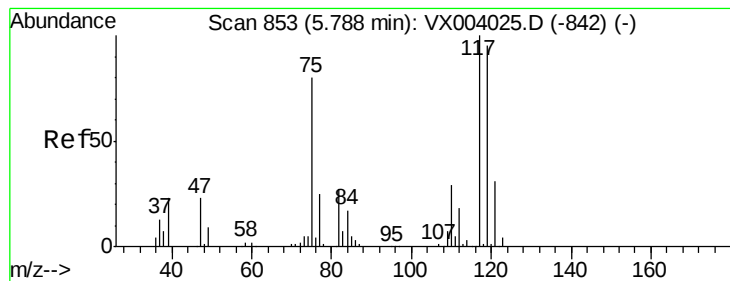


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

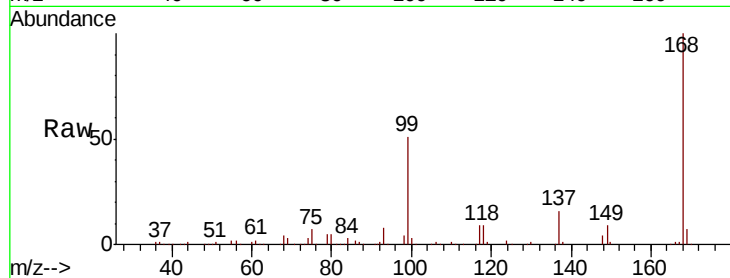
Tot Ion:117 Resp: 21492

Ion Ratio Lower Upper

117 100

119 7.2 79.5 119.3#

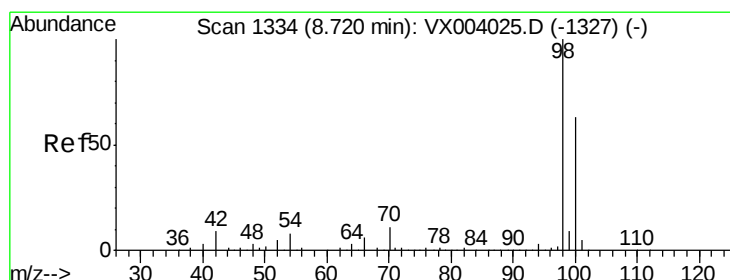
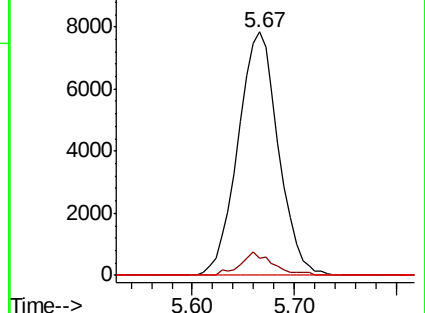
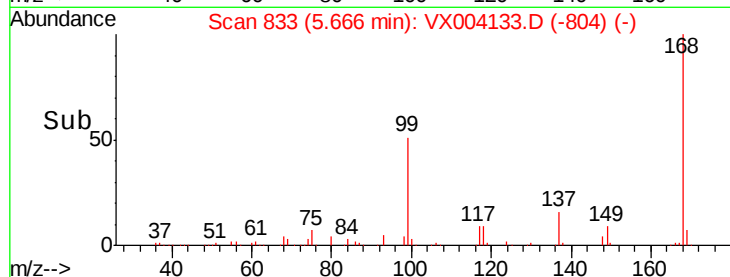
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 47.42 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004133.D

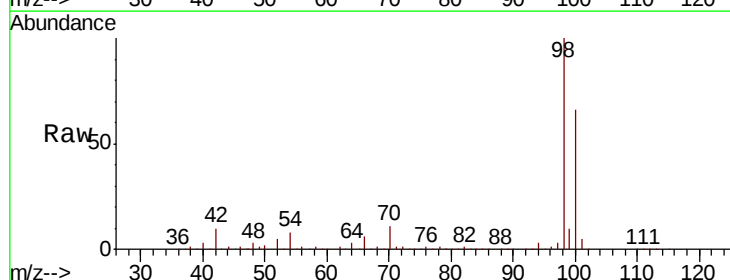
Acq: 17 Aug 2018 15:43

Tgt Ion: 98 Resp: 539733

Ion Ratio Lower Upper

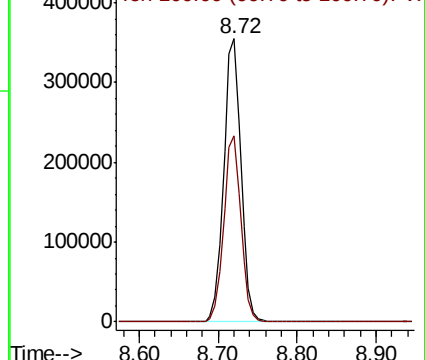
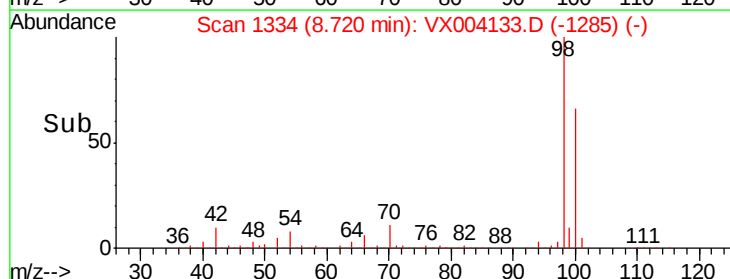
98 100

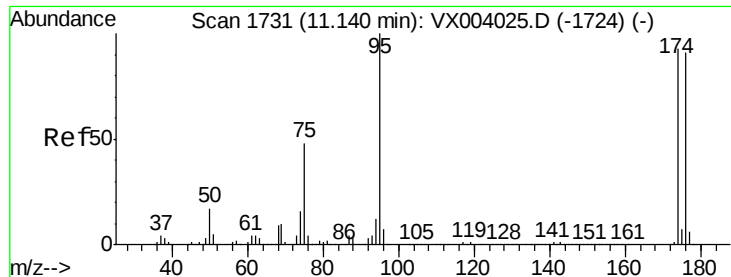
100 65.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

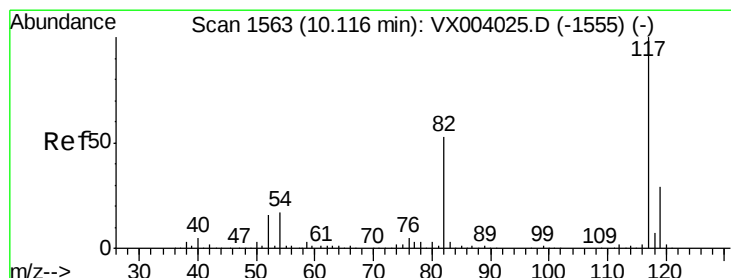
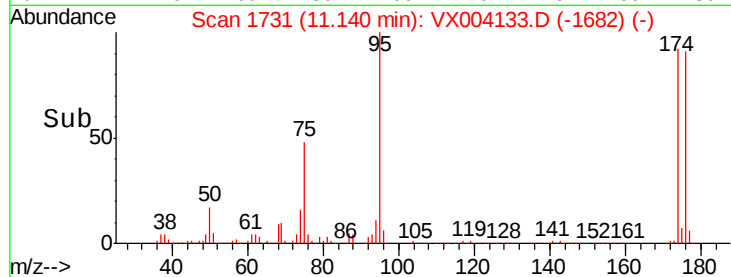
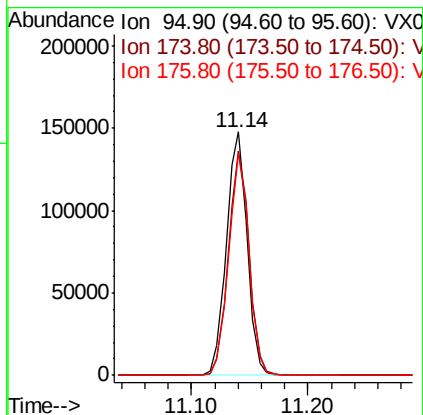
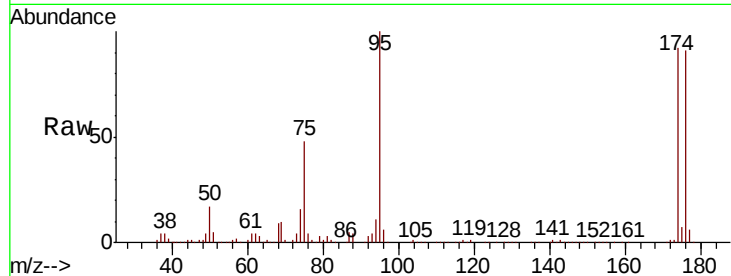




#62
4-Bromofluorobenzene
Concen: 44.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

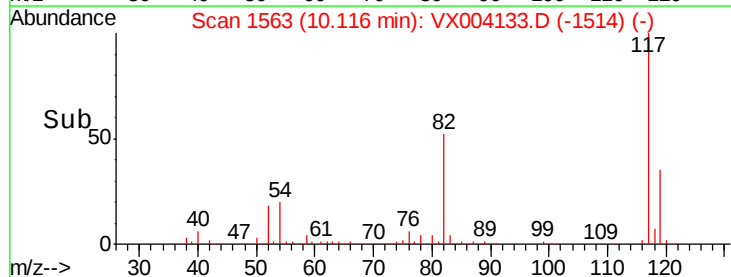
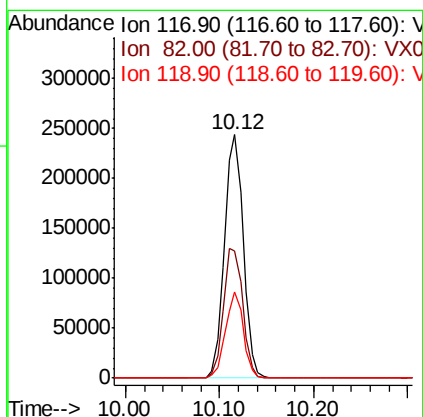
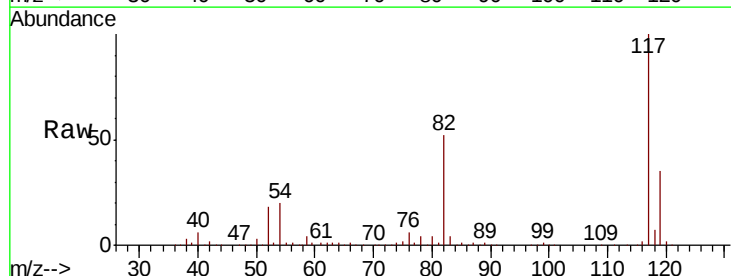
Instrument :
MSVOA_X
ClientSampleId :

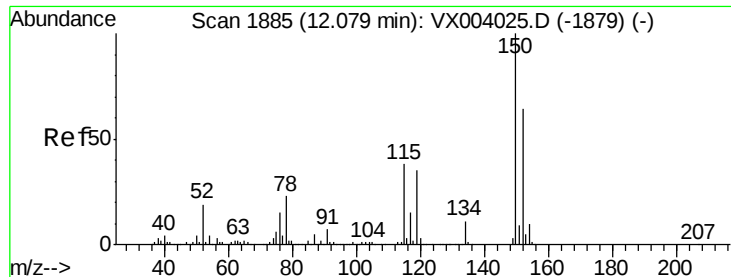
Tot Ion	Ratio	Lower	Upper
95	100		
174	92.9	0.0	182.8
176	89.5	0.0	179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004133.D
Acq: 17 Aug 2018 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.2	45.4	68.0
119	35.3	26.6	40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

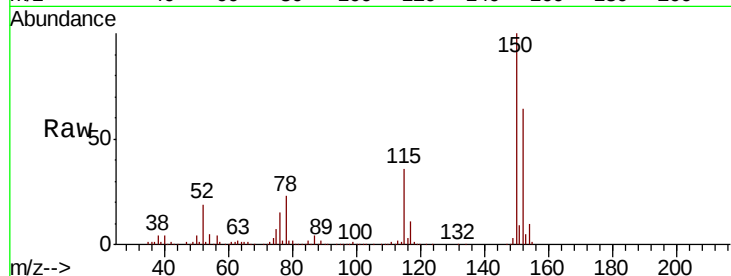
Tot Ion:152 Resp: 192364

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.3

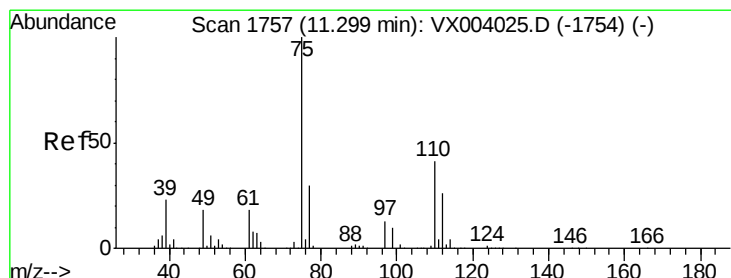
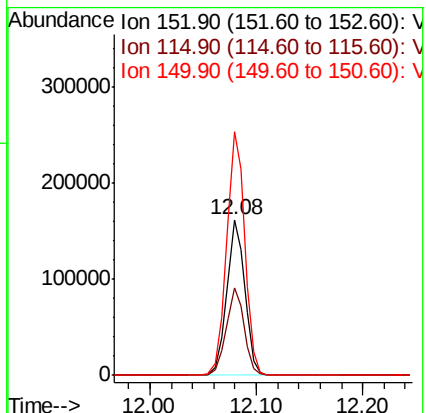
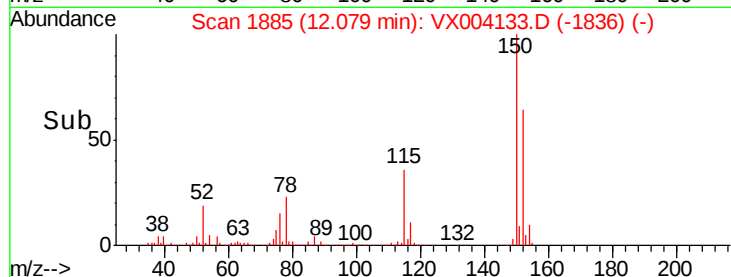
150 157.4 0.0 349.2



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: 22.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004133.D

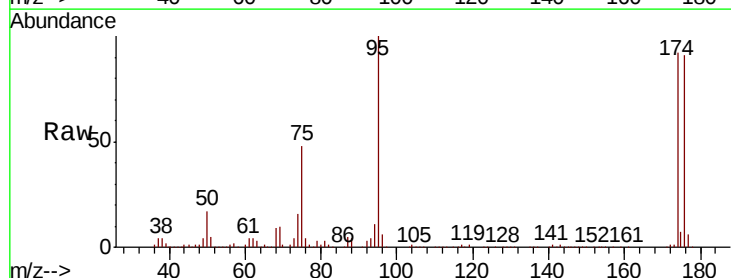
Acq: 17 Aug 2018 15:43

Tgt Ion: 75 Resp: 87863

Ion Ratio Lower Upper

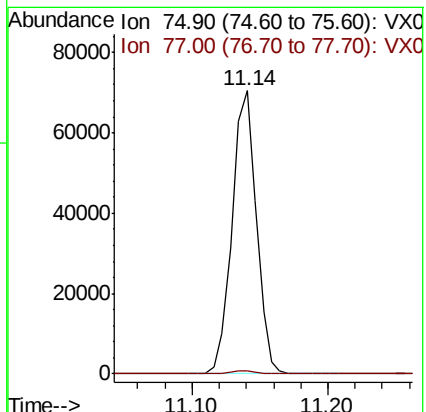
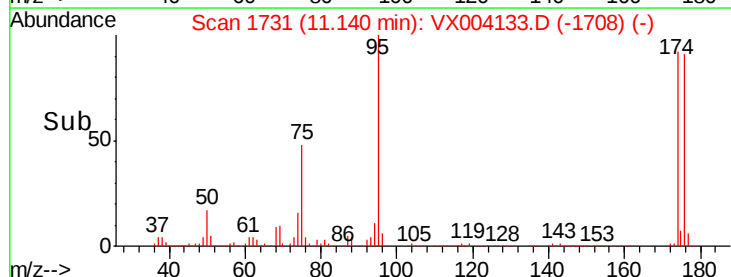
75 100

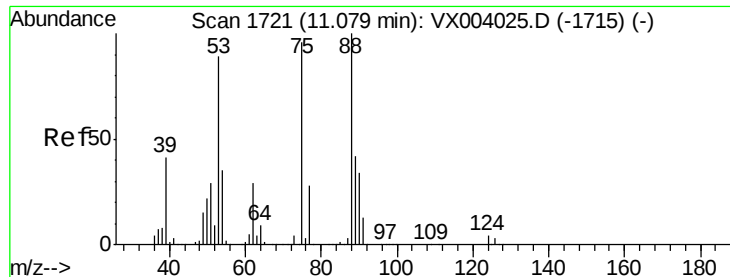
77 1.3 20.8 62.5#



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: 70.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

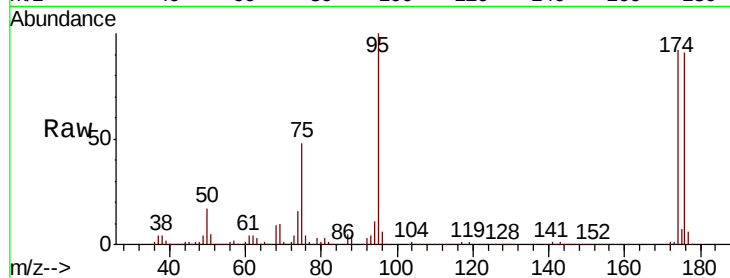
Tot Ion: 75 Resp: 87863

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

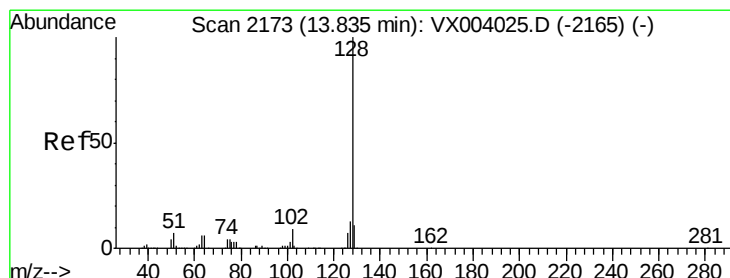
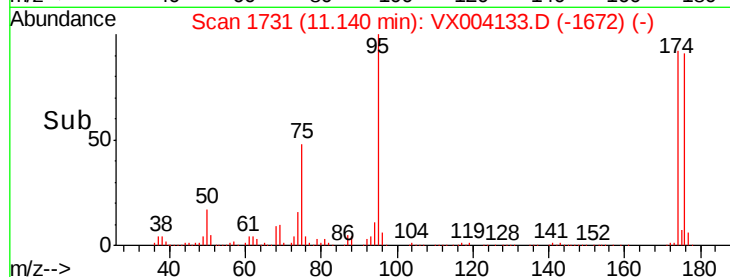
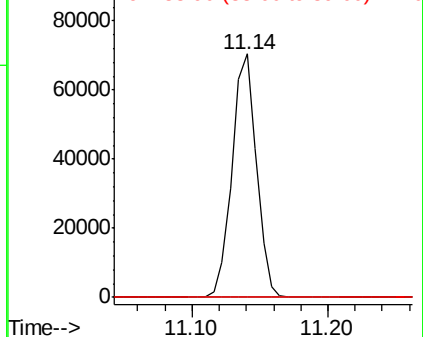
89 0.0 37.8 56.8#



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: 1.20 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004133.D

Acq: 17 Aug 2018 15:43

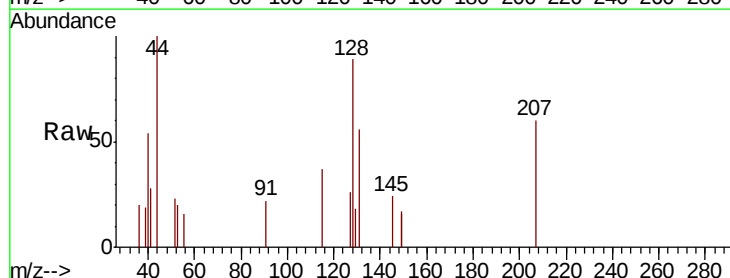
Tgt Ion: 128 Resp: 762

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.2

129 11.2 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

