

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004129.D
 Acq On : 17 Aug 2018 13:56
 Operator : JC/MD
 Sample : J4520-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 01:31:50 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	258188	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.86	114	404761	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	379003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	216539	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	191546	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
35) Dibromofluoromethane	5.51	113	151407	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	8.71	98	588341	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.15	95	202498	45.46	ug/l	0.00
Spiked Amount			Recovery	=	90.92%	

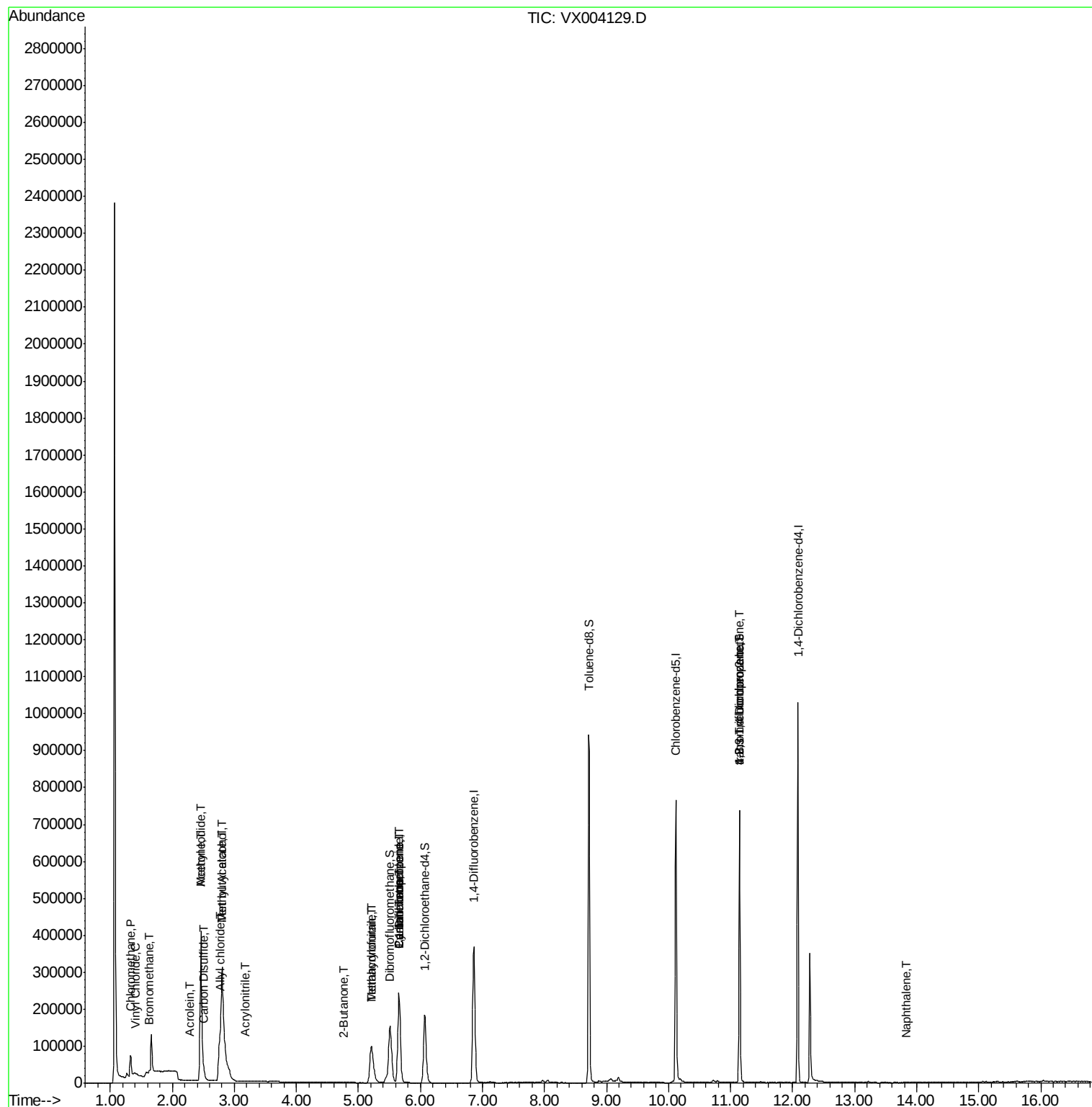
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	64523	20.92	ug/l	100
4) Vinyl Chloride	1.40	62	889	0.27	ug/l	# 1
5) Bromomethane	1.63	94	3160	1.70	ug/l	92
10) Methyl Iodide	2.46	142	4451	6.29	ug/l	99
11) Tert butyl alcohol	2.80	59	28694	39.17	ug/l	# 74
13) Acrolein	2.29	56	248	11.43	ug/l	# 52
14) Allyl chloride	2.76	41	476487	92.20	ug/l	# 45
15) Acrylonitrile	3.18	53	623	0.34	ug/l	# 89
16) Acetone	2.46	43	3674	1.94	ug/l	# 51
17) Carbon Disulfide	2.51	76	7490	0.97	ug/l	99
18) Methyl Acetate	2.80	43	338744	80.60	ug/l	99
20) Methylene Chloride	2.82	84	612	Below	Cal	# 66
25) 2-Butanone	4.76	43	740	0.24	ug/l	# 85
29) Tetrahydrofuran	5.21	42	124072	78.91	ug/l	97
31) Cyclohexane	5.66	56	4578	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.65	75	17971	3.90	ug/l	# 48
38) Carbon Tetrachloride	5.65	117	23438	5.24	ug/l	# 15
41) Methacrylonitrile	5.21	41	73265	26.08	ug/l	# 46
76) 1,2,3-Trichloropropane	11.15	75	100419	23.12	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.15	75	100419	71.58	ug/l	# 10
95) Naphthalene	13.83	128	652	1.19	ug/l	# 85

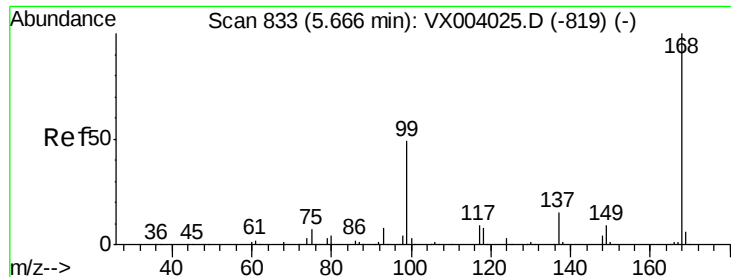
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 14 13:27:25 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.01 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

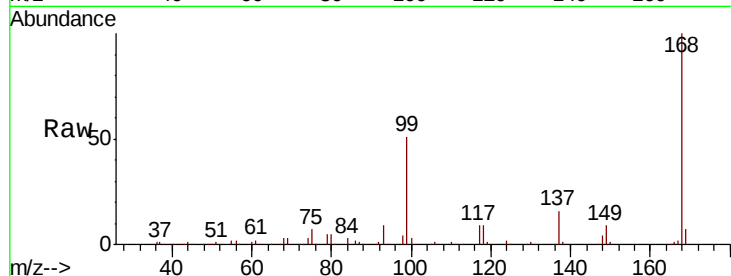
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 258188

Ion Ratio Lower Upper

168 100

99 50.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

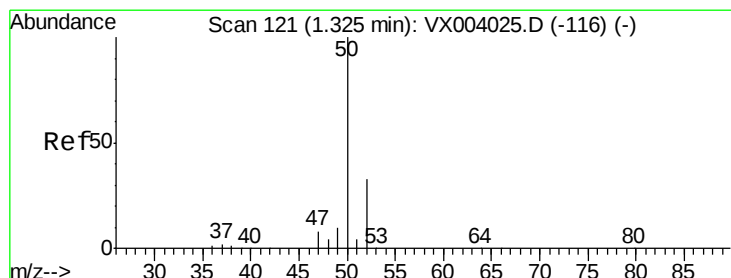
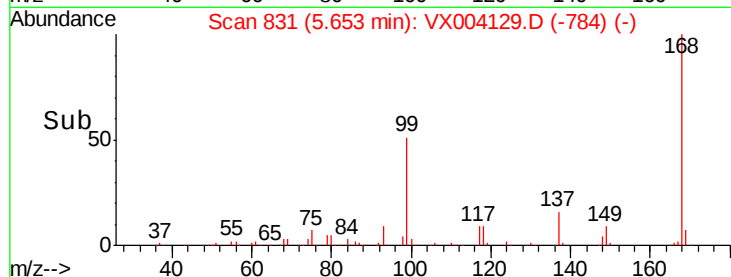
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 20.92 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004129.D

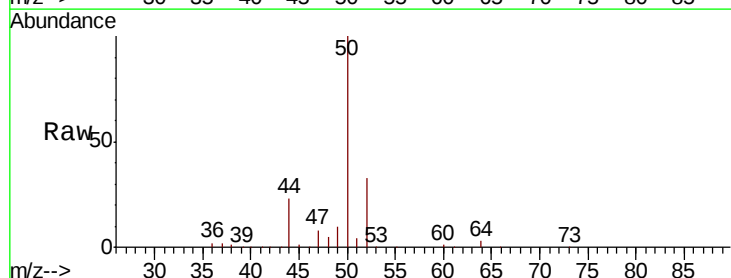
Acq: 17 Aug 2018 13:56

Tgt Ion: 50 Resp: 64523

Ion Ratio Lower Upper

50 100

52 33.1 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

40000

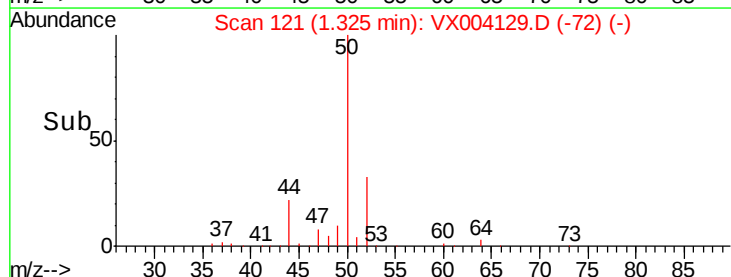
30000

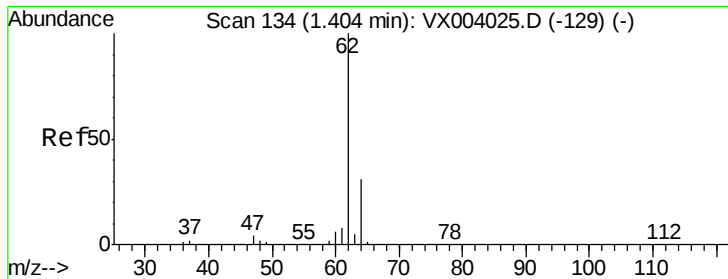
20000

10000

0

Time--> 1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.27 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

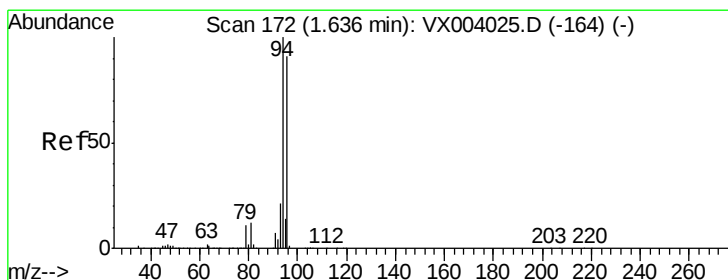
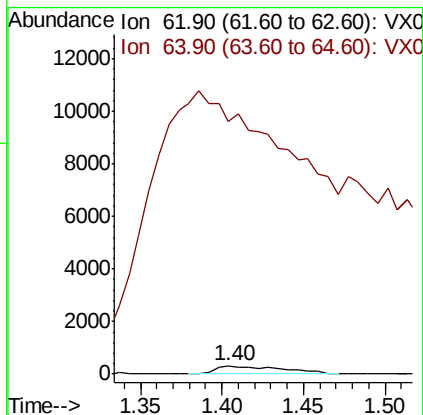
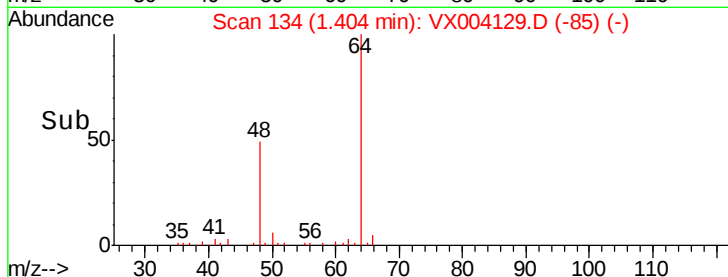
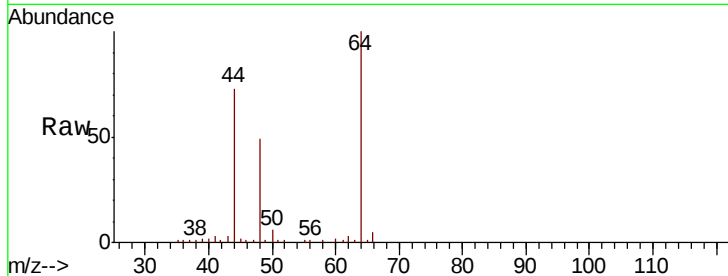
ClientSampled :

Tot Ion: 62 Resp: 889

Ion Ratio Lower Upper

62 100

64 842.2 26.0 39.0#



#5

Bromomethane

Concen: 1.70 ug/l

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX004129.D

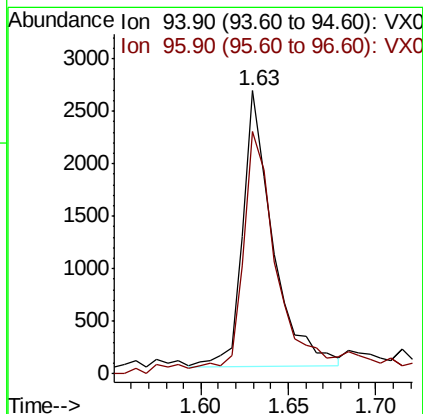
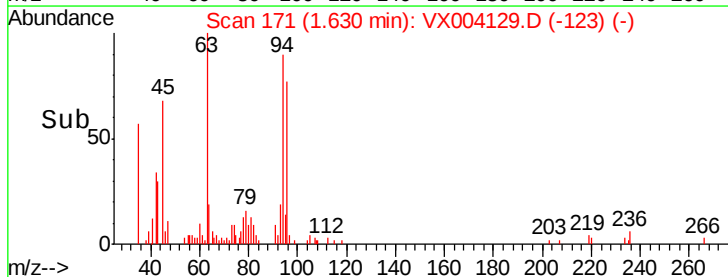
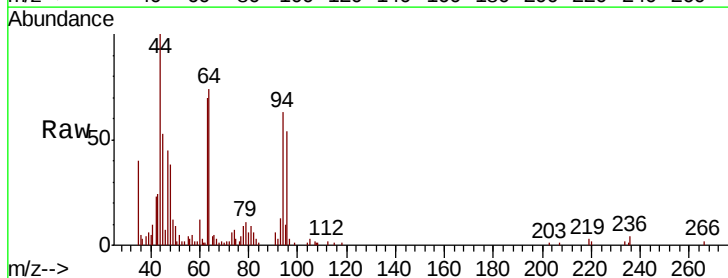
Acq: 17 Aug 2018 13:56

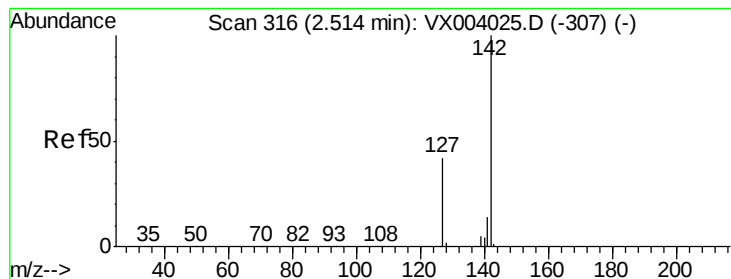
Tgt Ion: 94 Resp: 3160

Ion Ratio Lower Upper

94 100

96 85.9 75.2 112.8





#10

Methyl Iodide

Concen: 6.29 ug/l

RT: 2.46 min Scan# 308

Delta R.T. -0.05 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

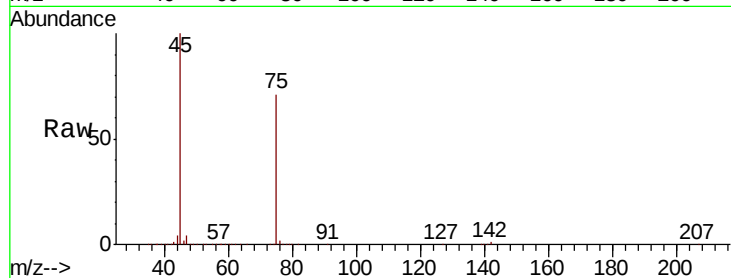
Tot Ion:142 Resp: 4451

Ion Ratio Lower Upper

142 100

127 40.9 33.1 49.7

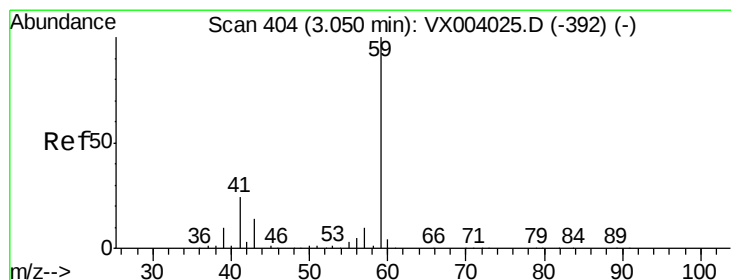
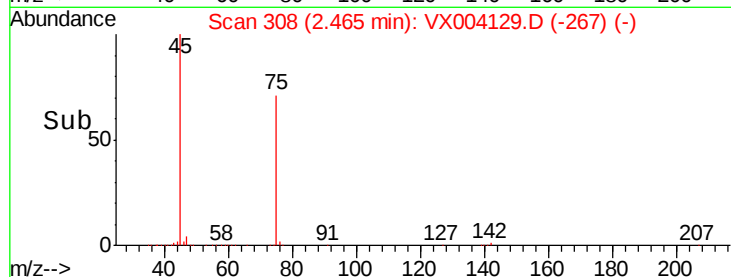
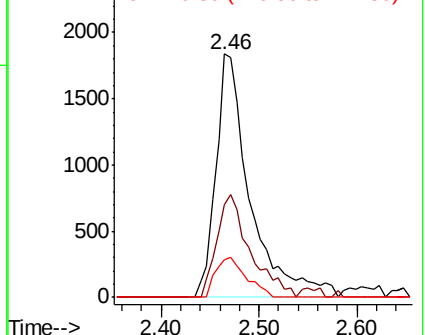
141 14.7 11.1 16.7



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: 39.17 ug/l

RT: 2.80 min Scan# 363

Delta R.T. -0.25 min

Lab File: VX004129.D

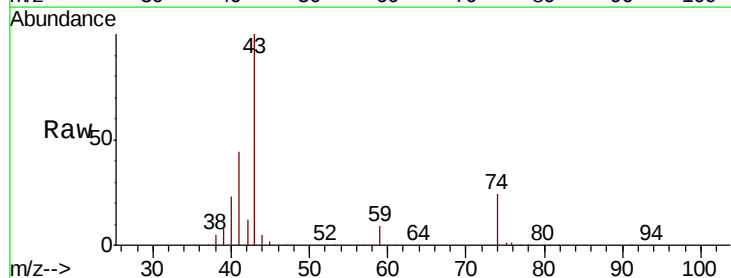
Acq: 17 Aug 2018 13:56

Tgt Ion: 59 Resp: 28694

Ion Ratio Lower Upper

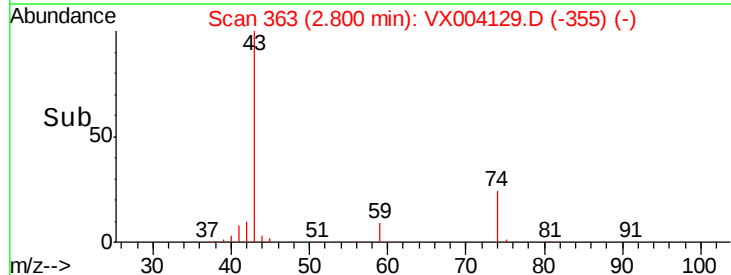
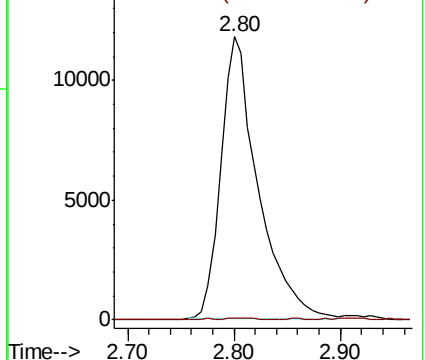
59 100

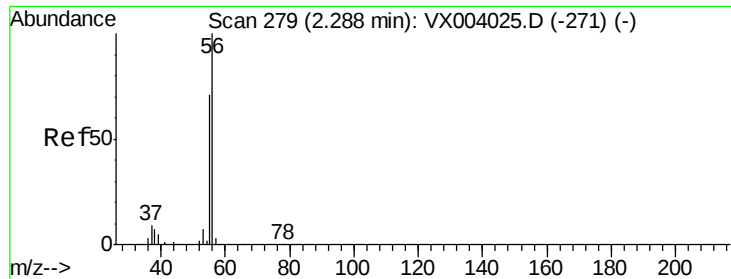
57 0.5 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.43 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

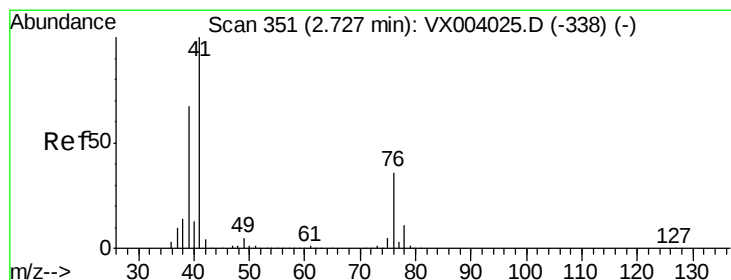
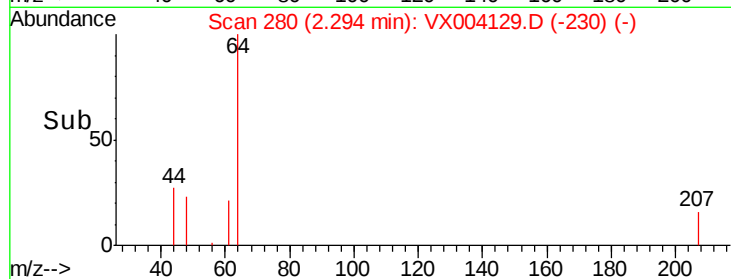
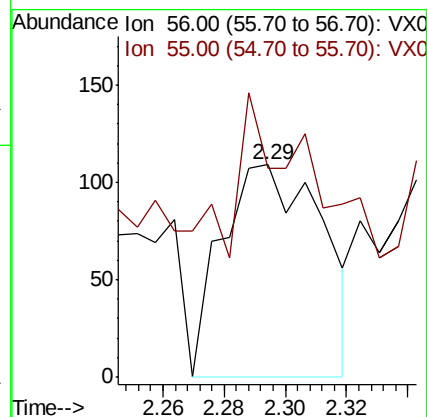
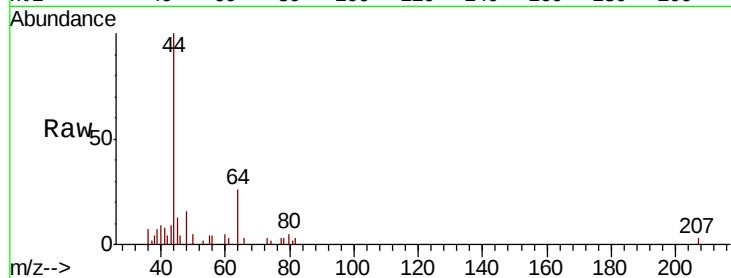
ClientSampled :

Tot Ion: 56 Resp: 248

Ion Ratio Lower Upper

56 100

55 109.7 56.1 84.1#



#14

Allyl chloride

Concen: 92.20 ug/l

RT: 2.76 min Scan# 357

Delta R.T. 0.04 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

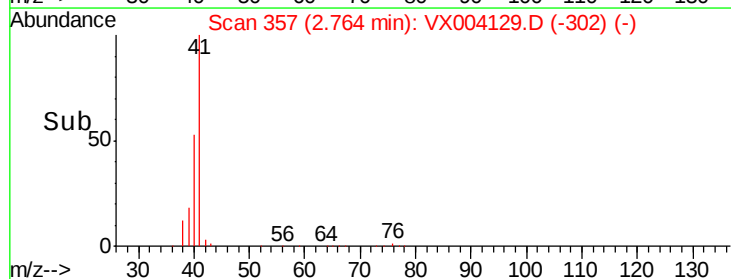
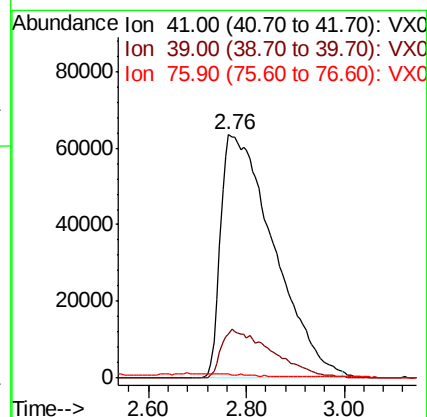
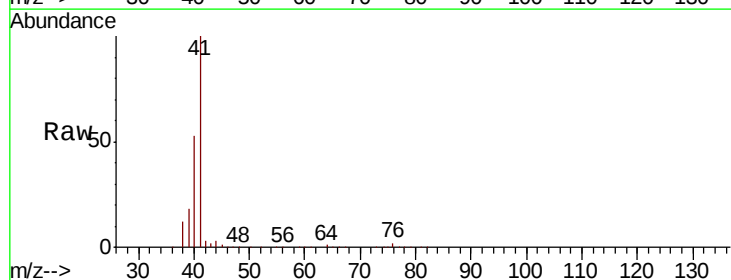
Tgt Ion: 41 Resp: 476487

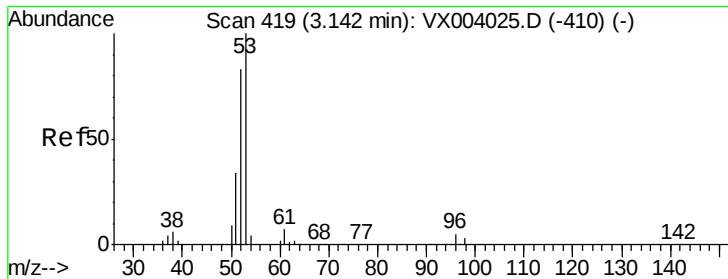
Ion Ratio Lower Upper

41 100

39 18.9 47.4 71.0#

76 0.0 26.0 39.0#





#15

Acrylonitrile

Concen: 0.34 ug/l

RT: 3.18 min Scan# 425

Delta R.T. 0.04 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

ClientSampled :

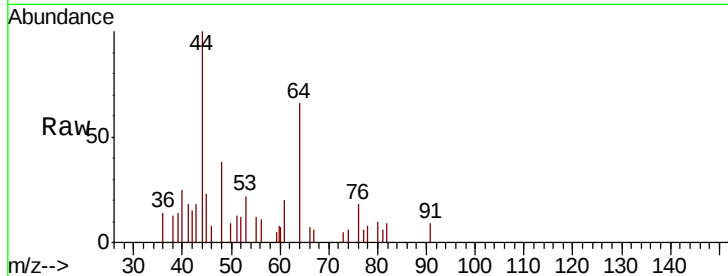
Tot Ion: 53 Resp: 623

Ion Ratio Lower Upper

53 100

52 84.1 65.3 97.9

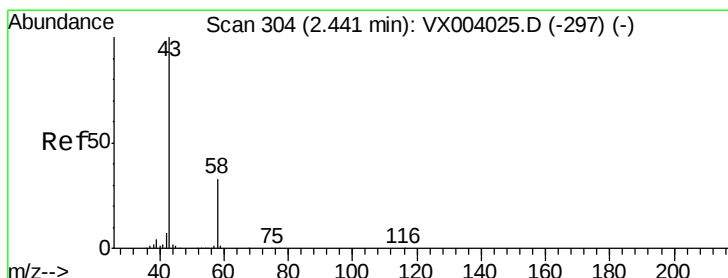
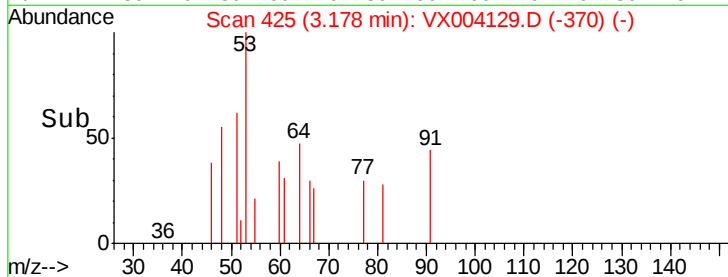
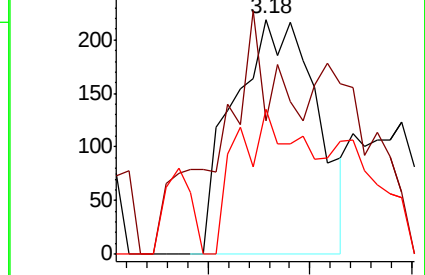
51 17.2 27.9 41.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.94 ug/l

RT: 2.46 min Scan# 307

Delta R.T. 0.02 min

Lab File: VX004129.D

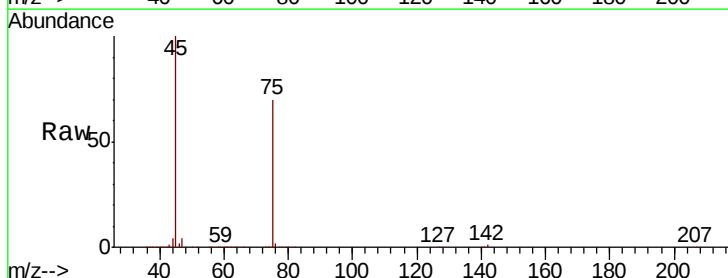
Acq: 17 Aug 2018 13:56

Tgt Ion: 43 Resp: 3674

Ion Ratio Lower Upper

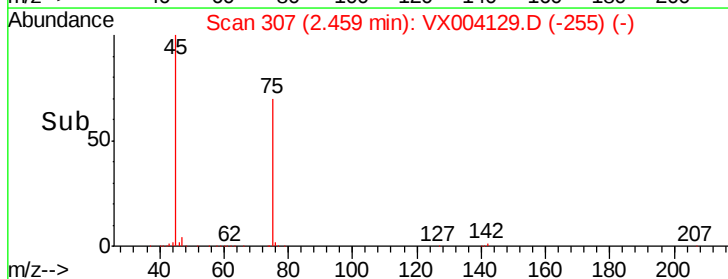
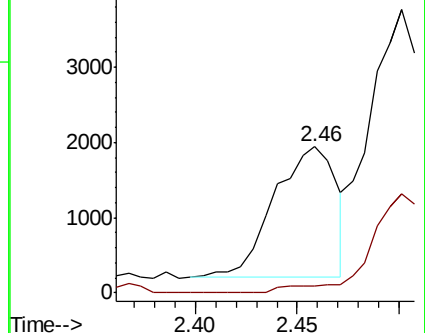
43 100

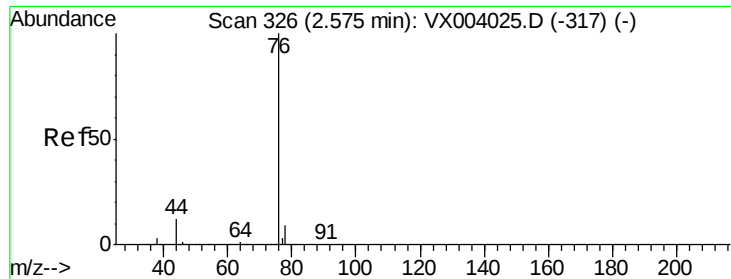
58 5.4 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

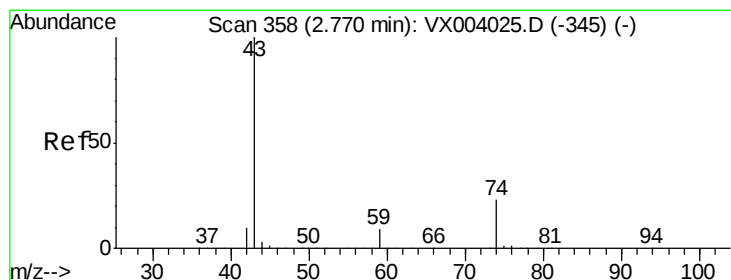
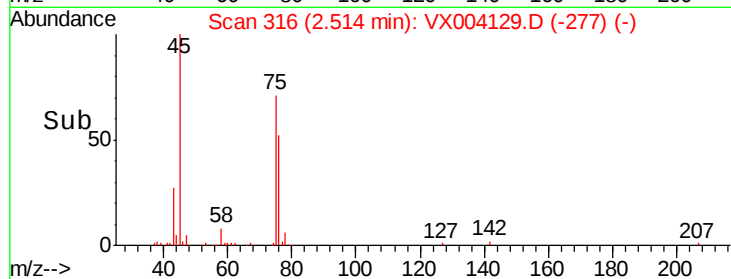
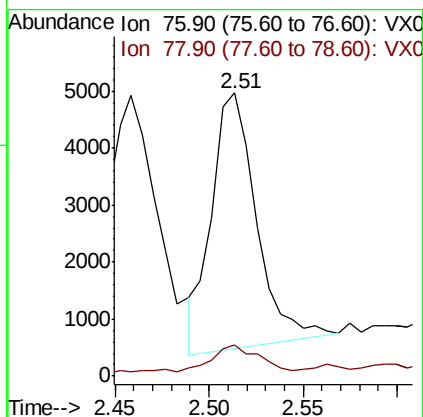
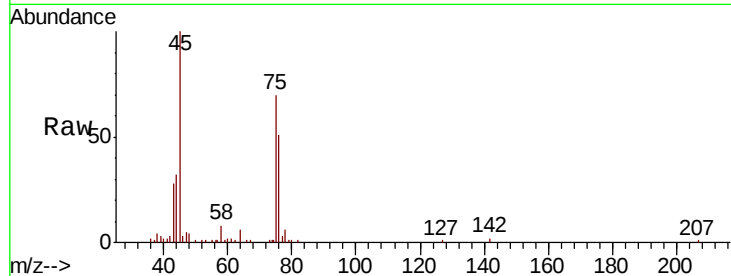




#17
Carbon Disulfide
Concen: 0.97 ug/l
RT: 2.51 min Scan# 316
Delta R.T. -0.06 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

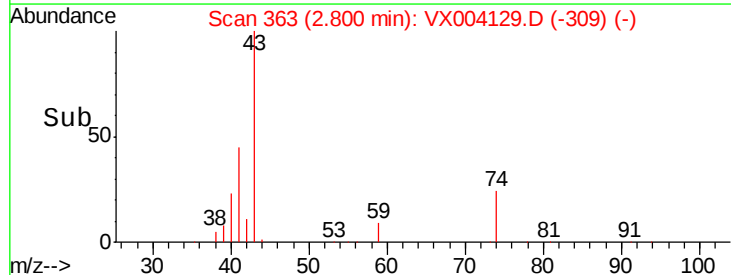
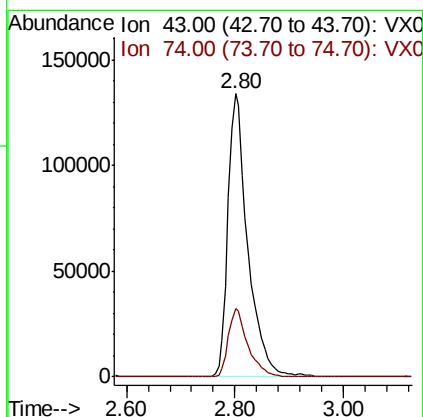
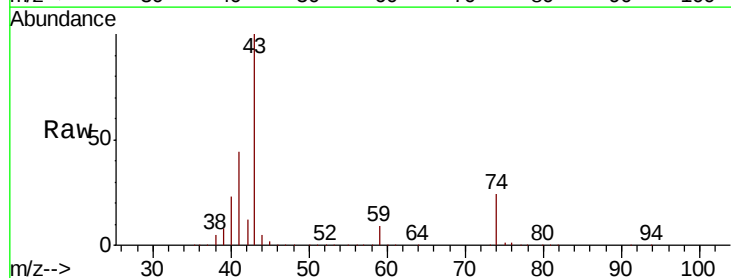
Instrument :
MSVOA_X
ClientSampled :

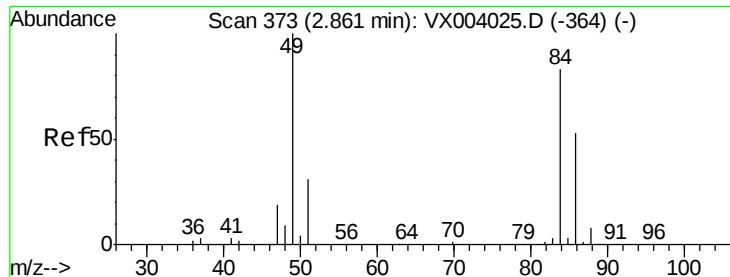
Tot Ion: 76 Resp: 7490
Ion Ratio Lower Upper
76 100
78 9.8 7.5 11.3



#18
Methyl Acetate
Concen: 80.60 ug/l
RT: 2.80 min Scan# 363
Delta R.T. 0.03 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

Tgt Ion: 43 Resp: 338744
Ion Ratio Lower Upper
43 100
74 24.0 18.9 28.3



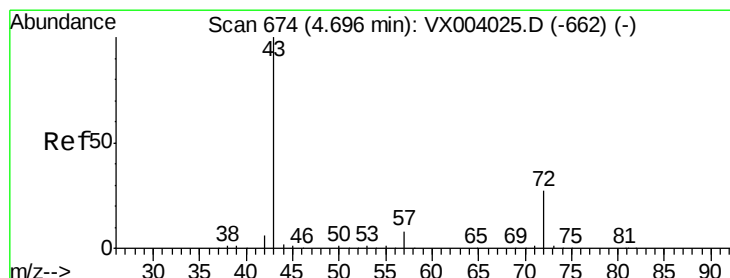
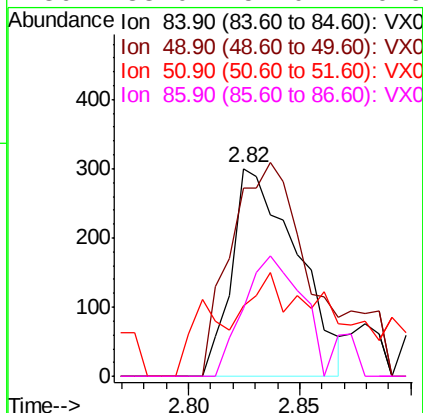
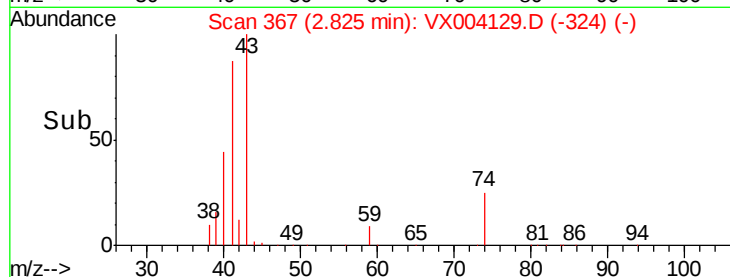
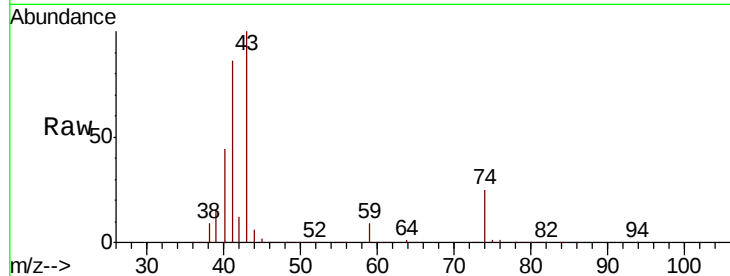


#20
Methvlene Chloride
Concen: Below Cal
RT: 2.82 min Scan# 367
Delta R.T. -0.04 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 612

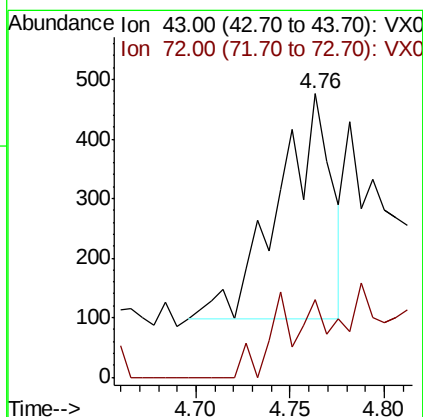
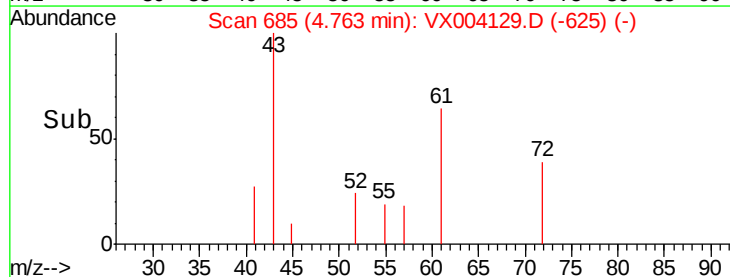
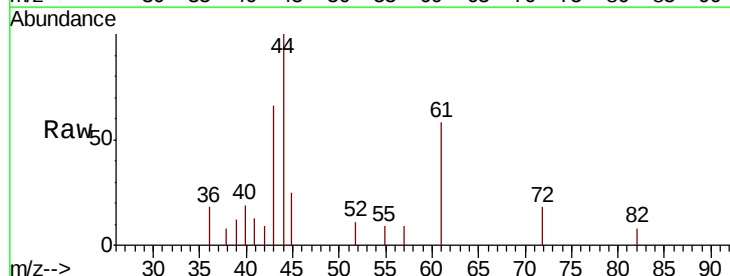
Ion	Ratio	Lower	Upper
84	100		
49	91.0	98.9	148.3#
51	13.3	29.9	44.9#
86	33.0	51.0	76.6#

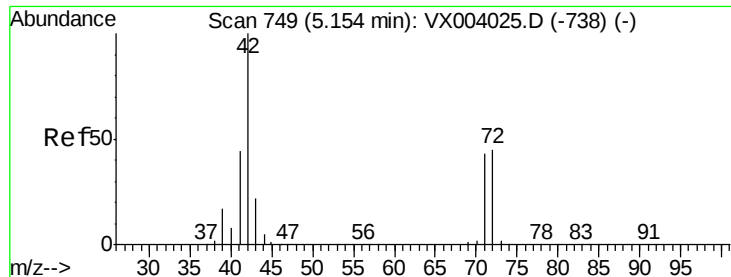


#25
2-Butanone
Concen: 0.24 ug/l
RT: 4.76 min Scan# 685
Delta R.T. 0.07 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

Tgt Ion: 43 Resp: 740

Ion	Ratio	Lower	Upper
43	100		
72	34.7	21.4	32.0#





#29

Tetrahydrofuran

Concen: 78.91 ug/l

RT: 5.21 min Scan# 758

Delta R.T. 0.05 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

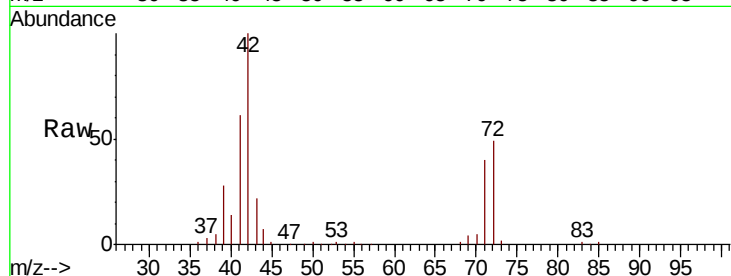
Tot Ion: 42 Resp: 124072

Ion Ratio Lower Upper

42 100

72 44.6 37.7 56.5

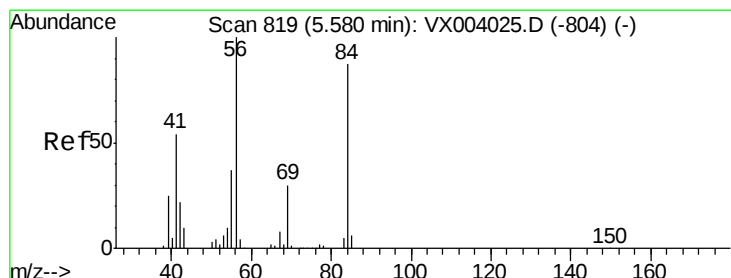
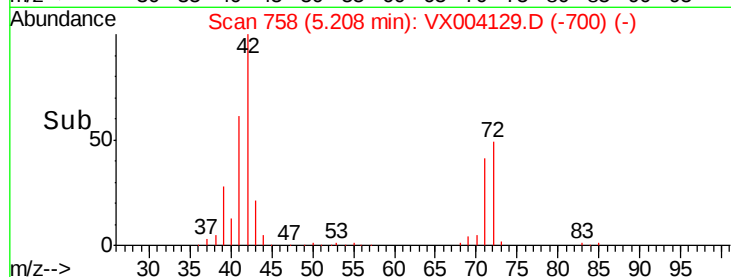
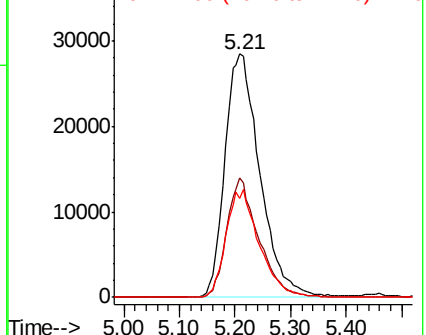
71 42.1 35.0 52.6



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

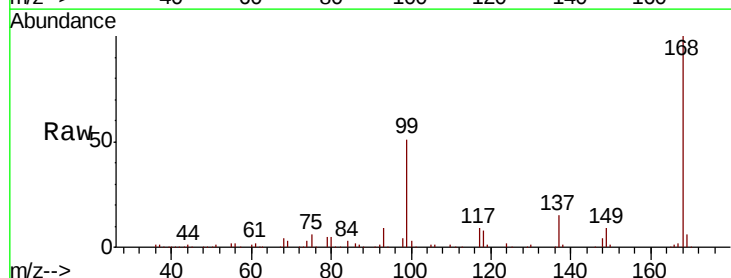
Tgt Ion: 56 Resp: 4578

Ion Ratio Lower Upper

56 100

69 210.2 24.9 37.3#

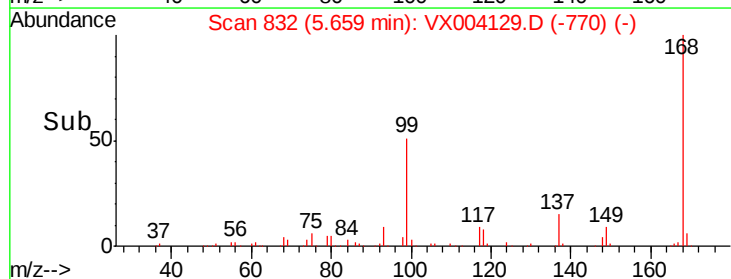
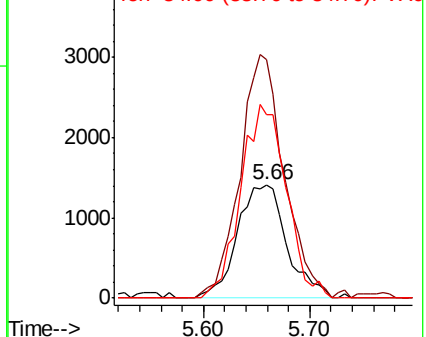
84 161.8 71.7 107.5#

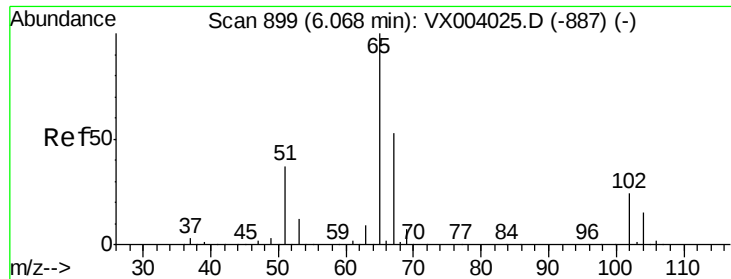


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

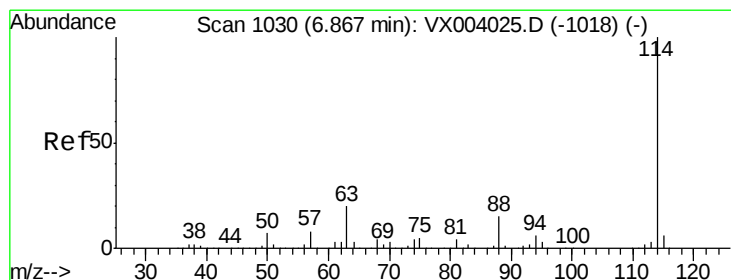
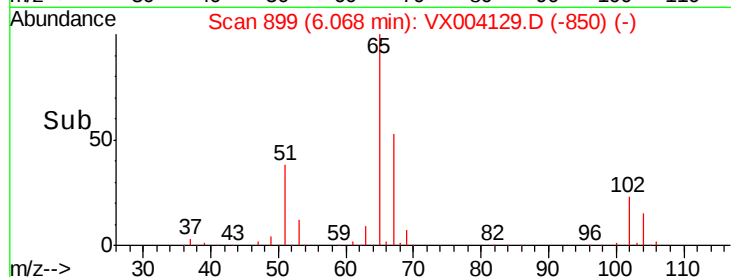
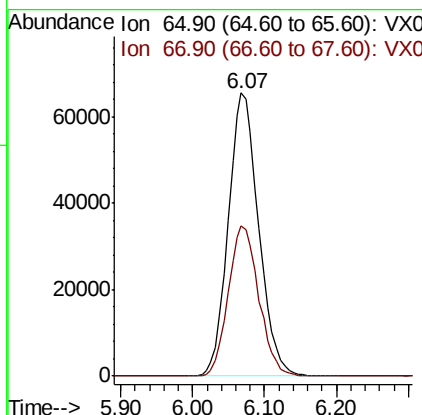
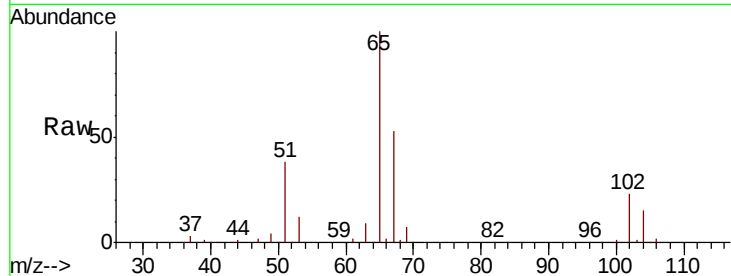




#33
 1,2-Dichloroethane-d4
 Concen: 52.66 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

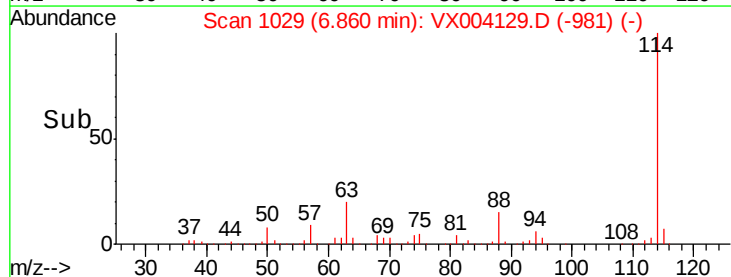
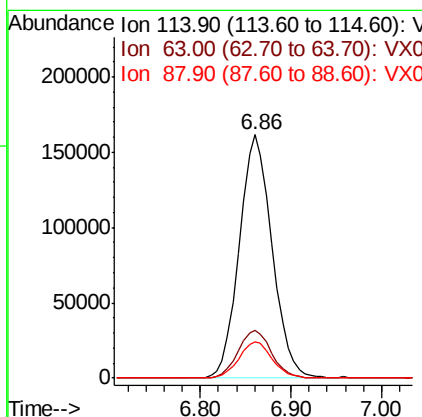
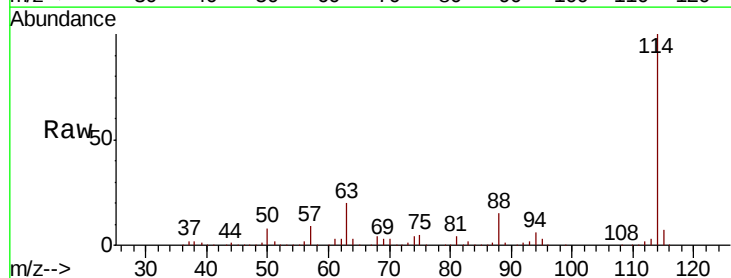
Instrument :
 MSVOA_X
 ClientSampleId :

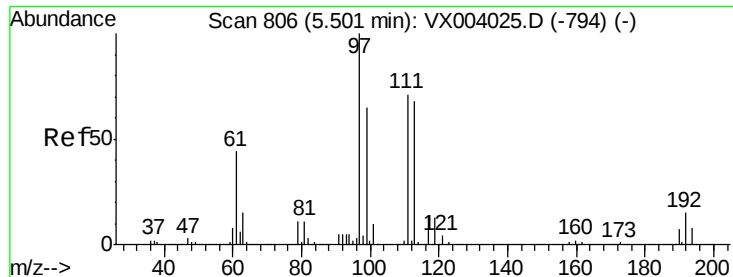
Tot Ion: 65 Resp: 191546
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

Tgt Ion: 114 Resp: 404761
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.1 0.0 32.0

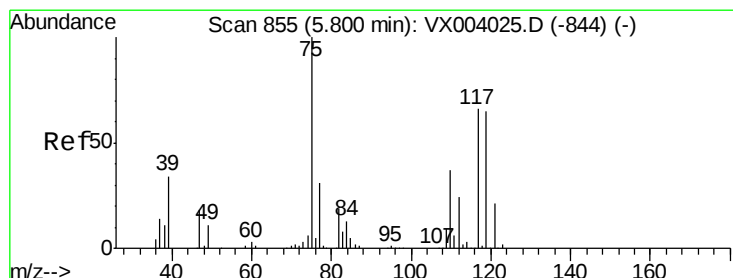
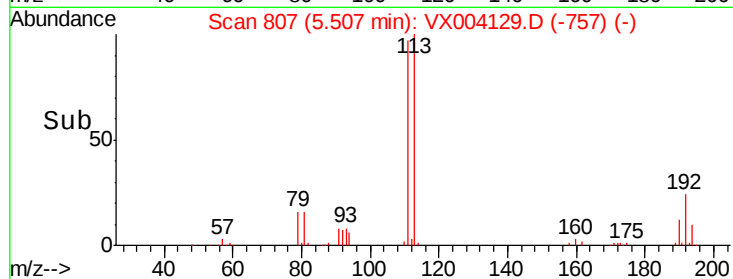
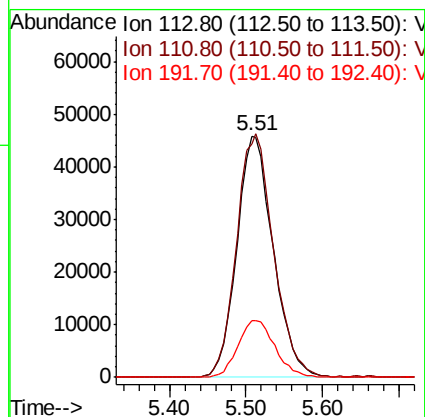
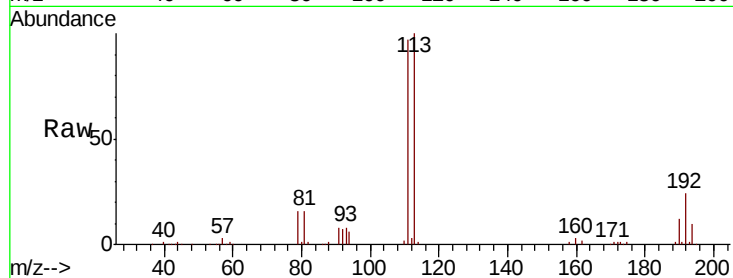




#35
 Dibromofluoromethane
 Concen: 49.98 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

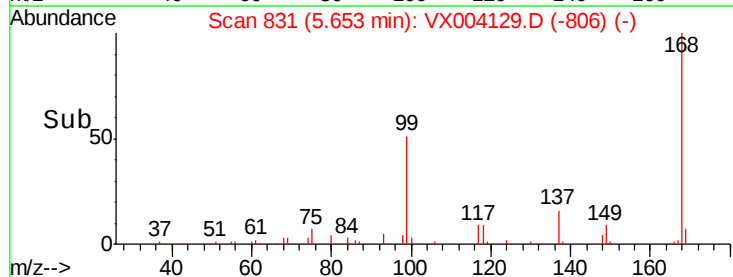
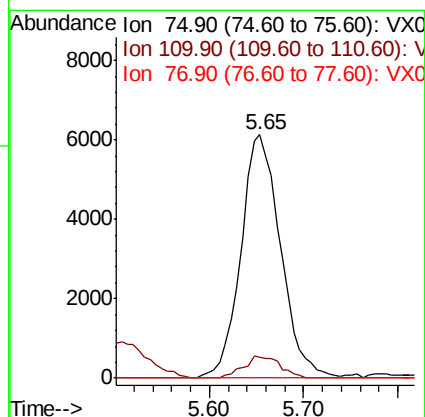
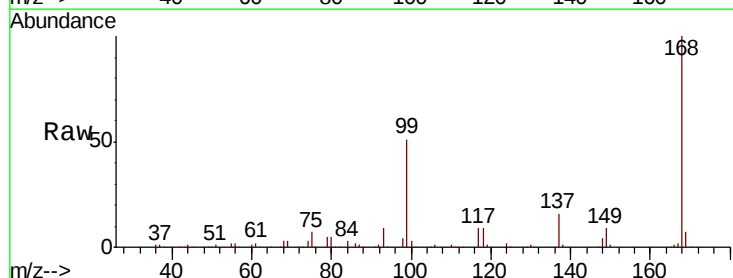
Instrument :
 MSVOA_X
 ClientSampleId :

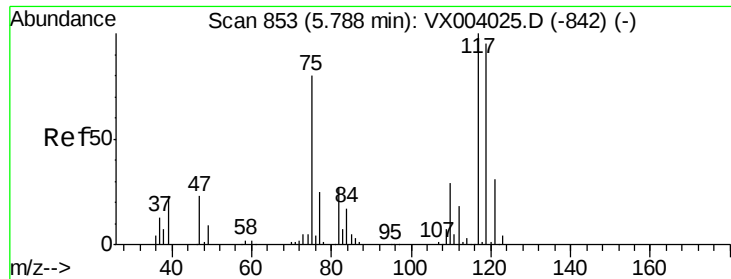
Tot Ion:113 Resp: 151407
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 24.2 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 5.65 min Scan# 831
 Delta R.T. -0.15 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

Tgt Ion: 75 Resp: 17971
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.2 54.6#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.24 ug/l

RT: 5.65 min Scan# 831

Delta R.T. -0.13 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

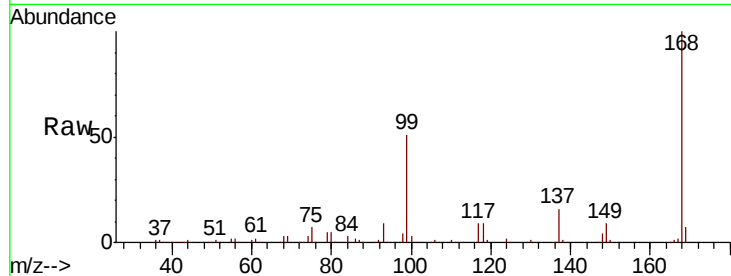
Tot Ion:117 Resp: 23438

Ion Ratio Lower Upper

117 100

119 6.0 79.5 119.3#

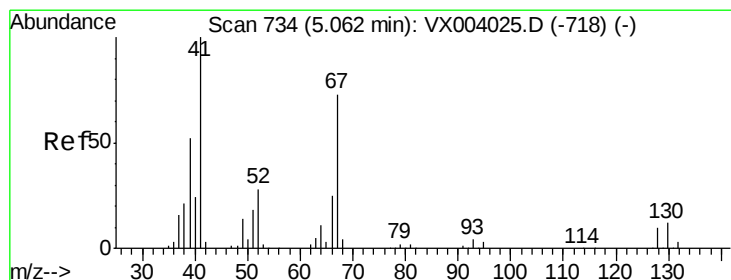
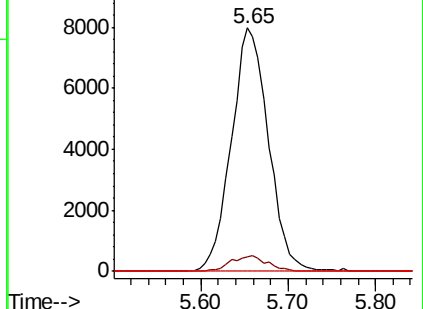
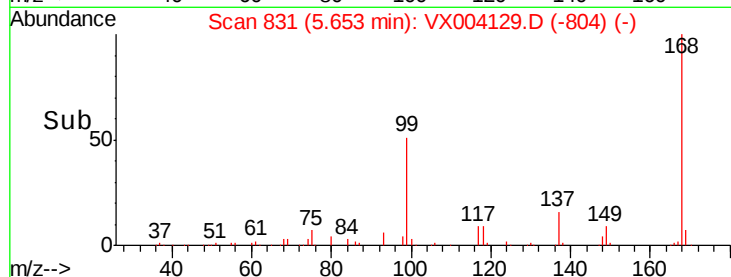
121 0.0 25.0 37.4#



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



#41

Methacrylonitrile

Concen: 26.08 ug/l

RT: 5.21 min Scan# 758

Delta R.T. 0.15 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Tgt Ion: 41 Resp: 73265

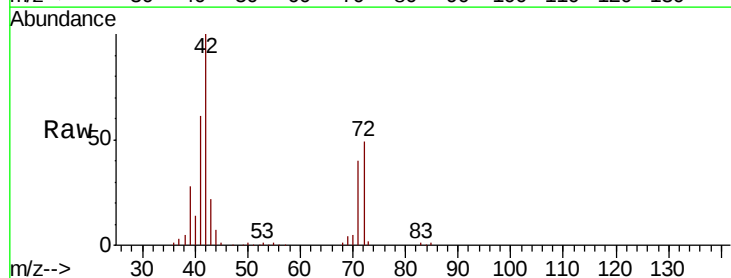
Ion Ratio Lower Upper

41 100

39 46.6 42.7 64.1

67 0.0 58.9 88.3#

52 0.2 22.6 33.8#

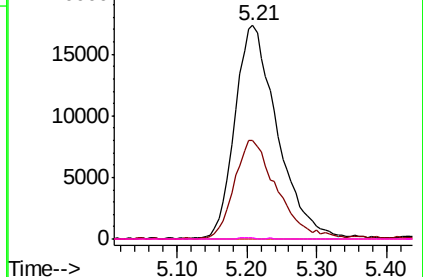
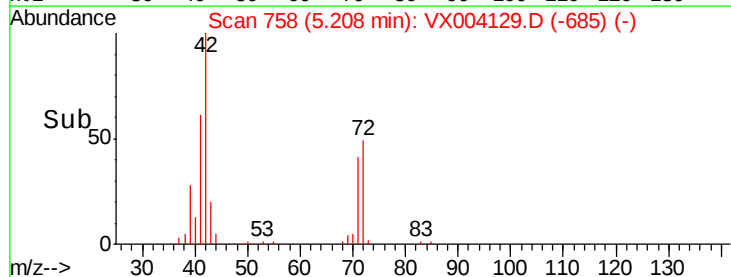


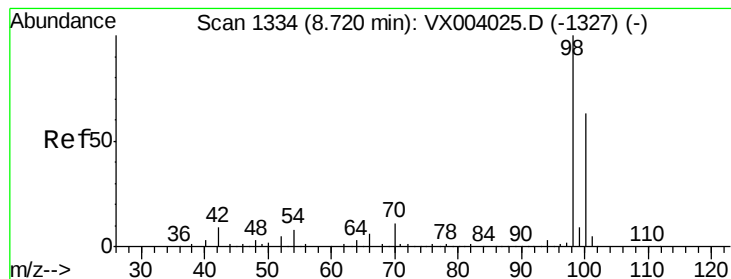
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 47.90 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

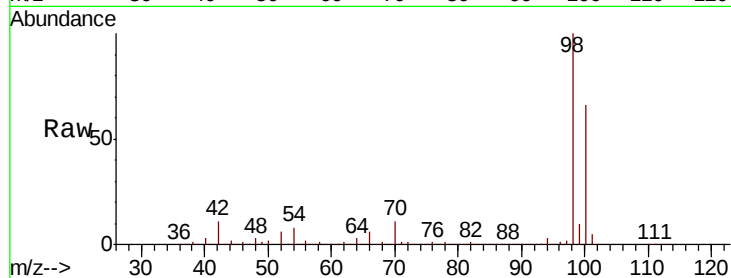
ClientSampleId :

Tot Ion: 98 Resp: 588341

Ion Ratio Lower Upper

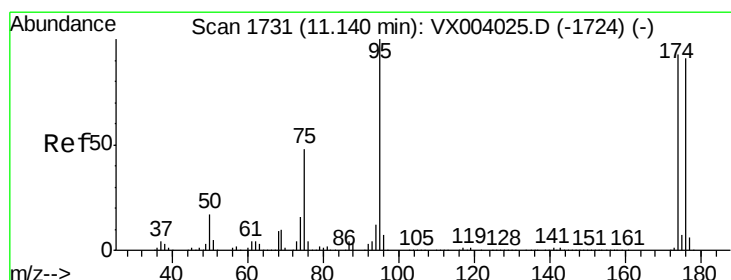
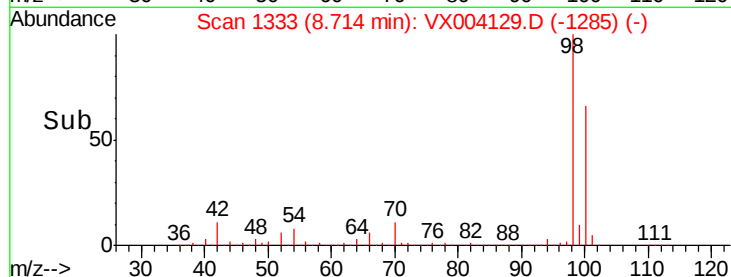
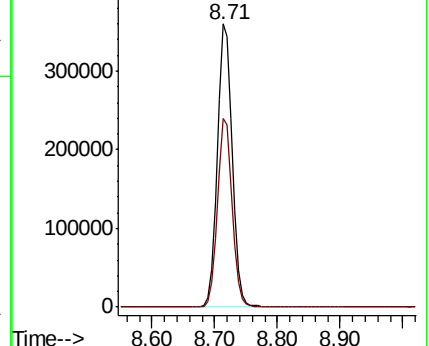
98 100

100 65.7 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: 45.46 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

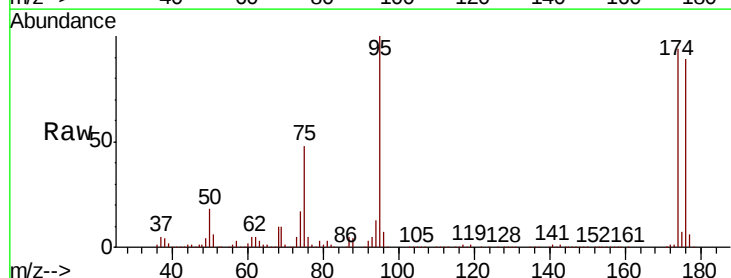
Tgt Ion: 95 Resp: 202498

Ion Ratio Lower Upper

95 100

174 90.8 0.0 182.8

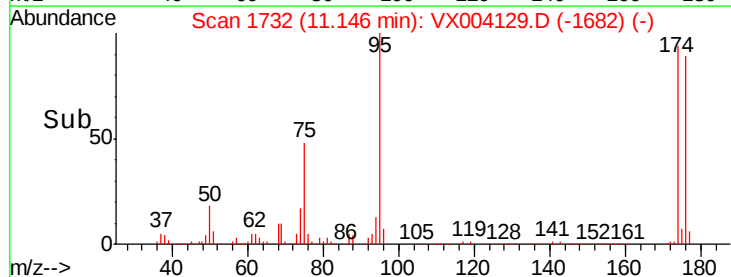
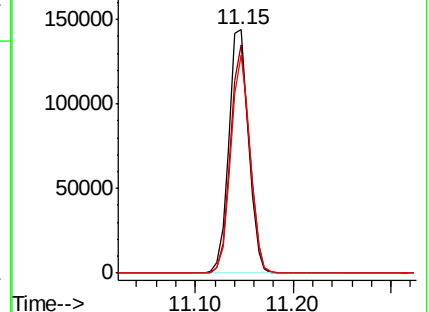
176 87.0 0.0 179.0

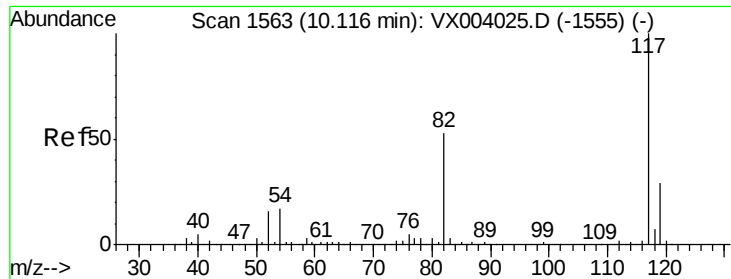


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

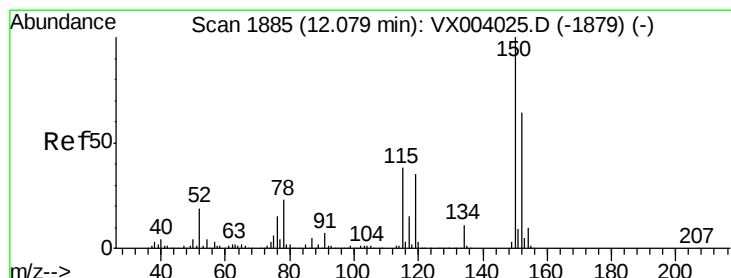
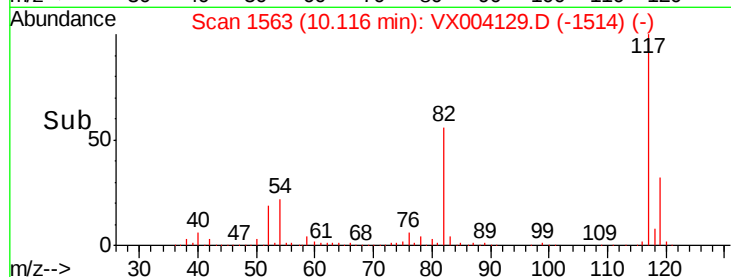
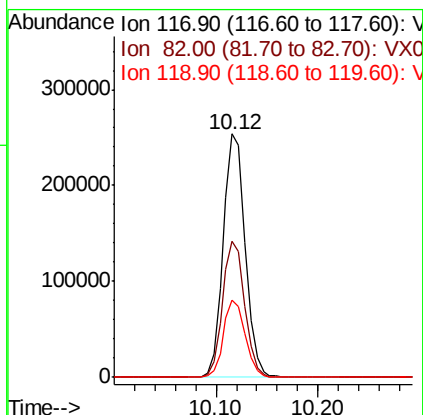
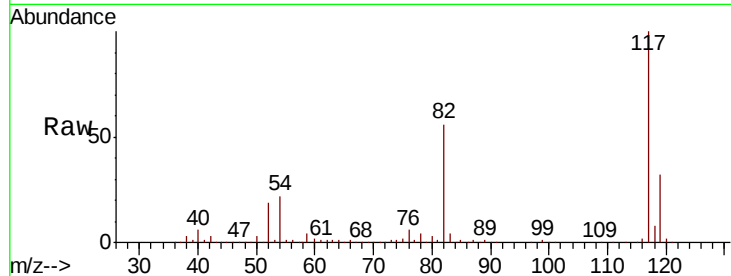




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

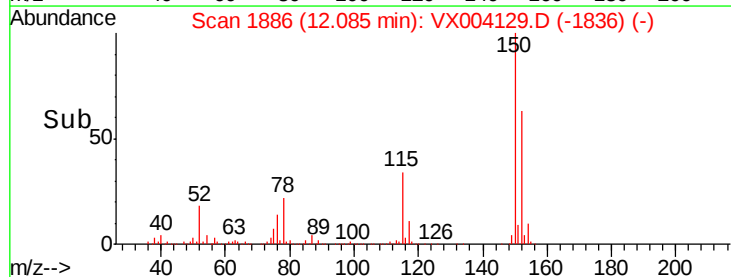
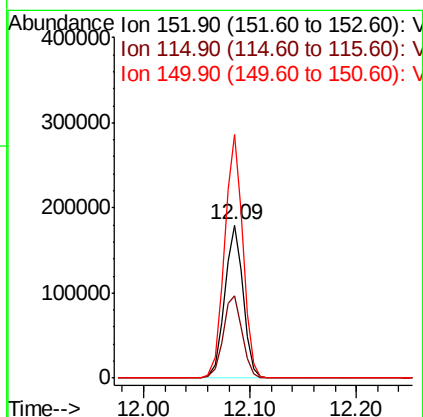
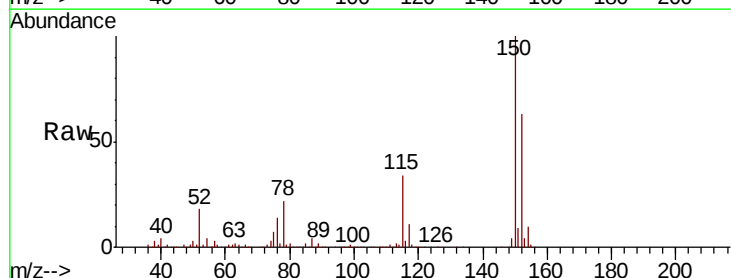
Instrument :
MSVOA_X
ClientSampleId :

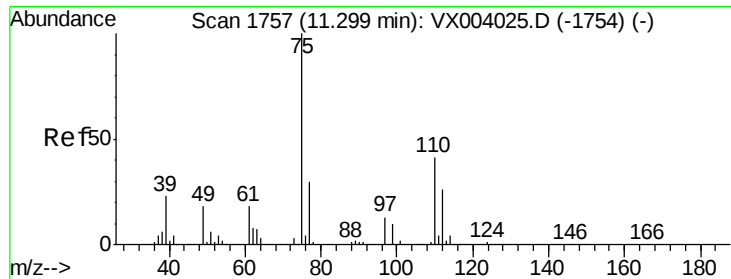
Tot Ion:117 Resp: 379003
Ion Ratio Lower Upper
117 100
82 56.1 45.4 68.0
119 31.6 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX004129.D
Acq: 17 Aug 2018 13:56

Tgt Ion:152 Resp: 216539
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.3
150 158.6 0.0 349.2

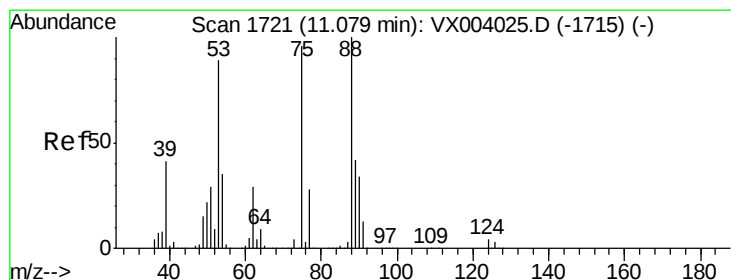
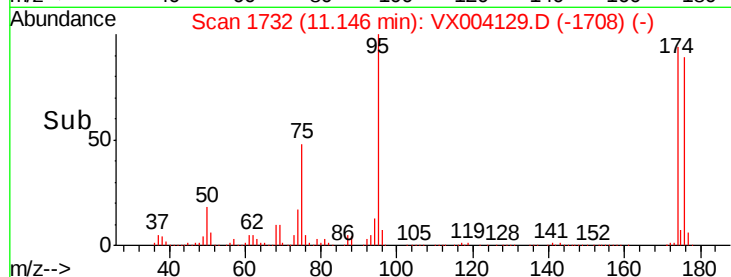
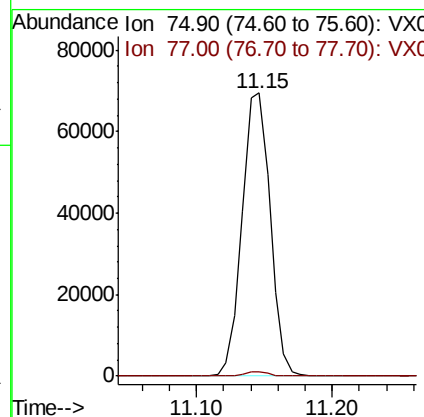
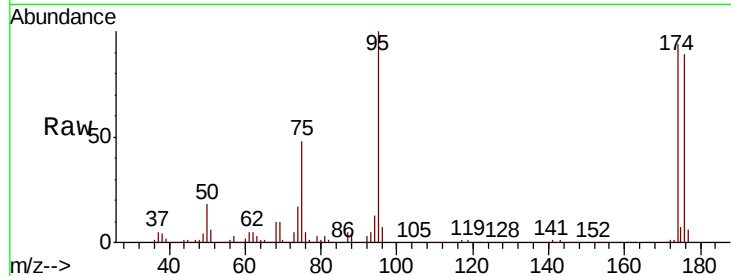




#76
 1,2,3-Trichloropropane
 Concen: 23.12 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.15 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

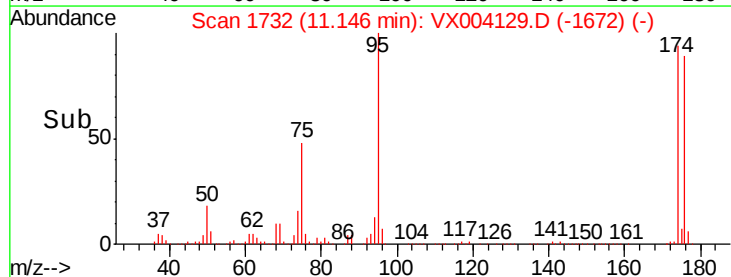
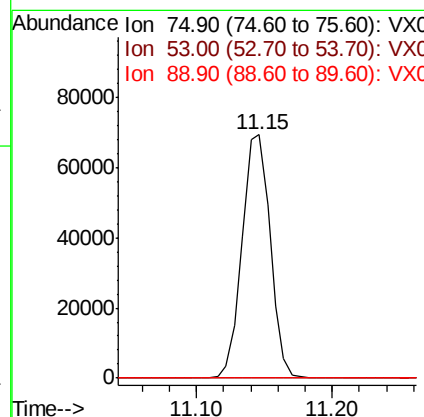
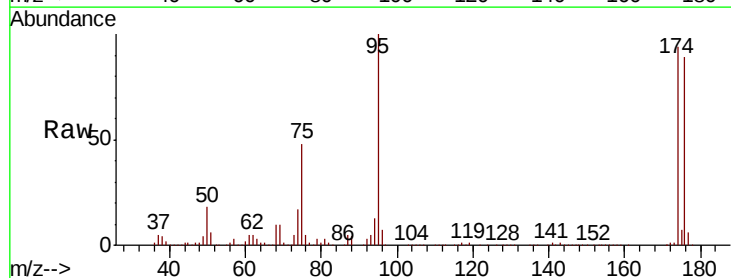
Instrument :
 MSVOA_X
 ClientSampleId :

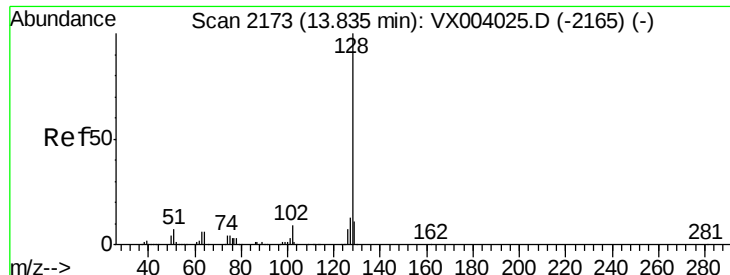
Tot Ion: 75 Resp: 100419
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.58 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.07 min
 Lab File: VX004129.D
 Acq: 17 Aug 2018 13:56

Tgt Ion: 75 Resp: 100419
 Ion Ratio Lower Upper
 75 100
 53 0.4 80.3 120.5#
 89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.19 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

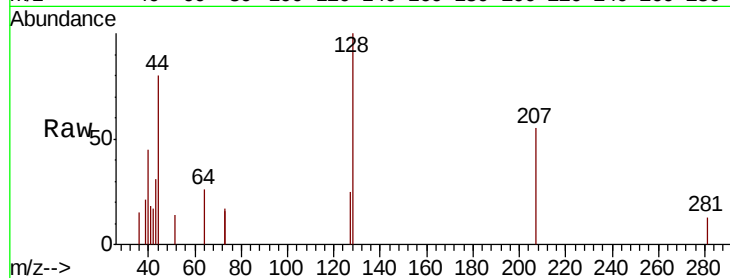
Lab File: VX004129.D

Acq: 17 Aug 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :



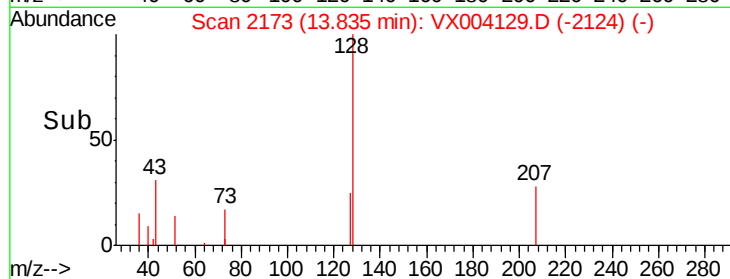
Tot Ion:128 Resp: 652

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

129 0.0 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

