

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083118\
 Data File : VX004329.D
 Acq On : 31 Aug 2018 16:33
 Operator : JC/MD
 Sample : VV0831WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0831WBL01

Quant Time: Sep 01 04:30:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	278919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	440380	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	424874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	232190	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	199867	54.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.96%	
35) Dibromofluoromethane	5.50	113	173140	52.85	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.70%	
50) Toluene-d8	8.71	98	631578	51.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.14	95	214184	46.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.84%	

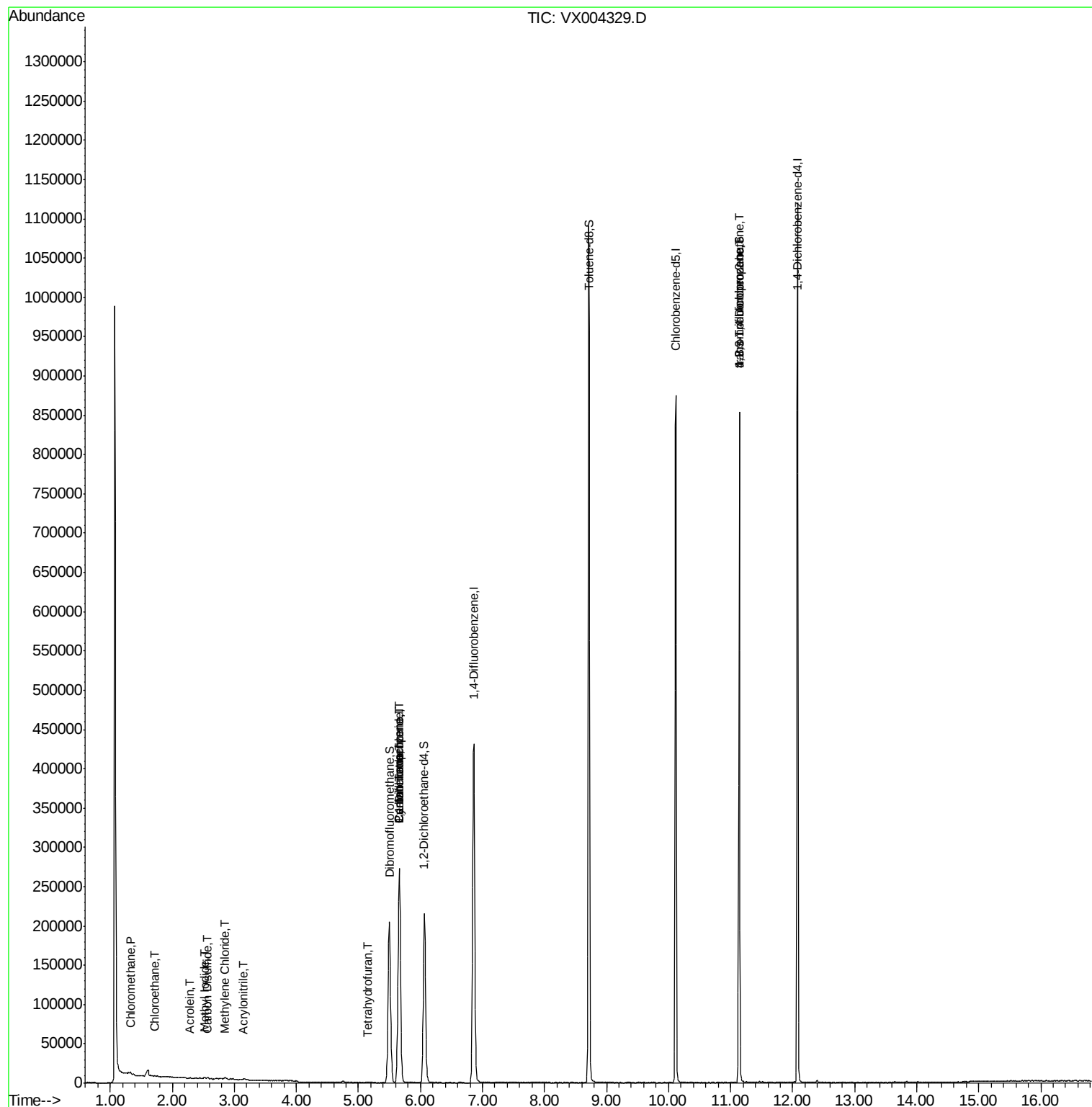
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	909	0.54	ug/l	95
5) Bromomethane	1.65	94	1471	Below Cal		88
6) Chloroethane	1.71	64	603	1.17	ug/l #	65
10) Methyl Iodide	2.52	142	1862	4.75	ug/l	96
13) Acrolein	2.29	56	409	2.19	ug/l	91
15) Acrylonitrile	3.14	53	740	0.39	ug/l #	78
16) Acetone	2.44	43	689	Below Cal	#	87
17) Carbon Disulfide	2.57	76	1436	0.97	ug/l #	92
20) Methylene Chloride	2.85	84	706	0.20	ug/l #	89
25) 2-Butanone	4.68	43	126	Below Cal	#	47
29) Tetrahydrofuran	5.15	42	717	0.46	ug/l #	70
31) Cyclohexane	5.66	56	4930	0.97	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18442	3.72	ug/l #	50
38) Carbon Tetrachloride	5.66	117	24727	5.31	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	102940	21.80	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	102940	70.73	ug/l #	10
94) Hexachlorobutadiene	13.79	225	228	Below Cal		75

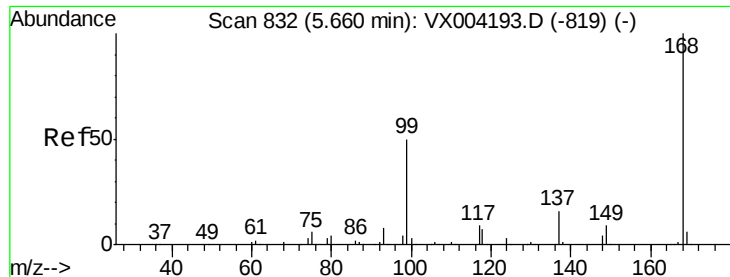
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

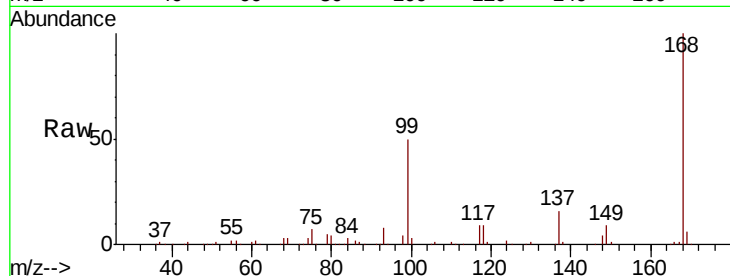
VX0831WBL01

Tot Ion:168 Resp: 278919

Ion Ratio Lower Upper

168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

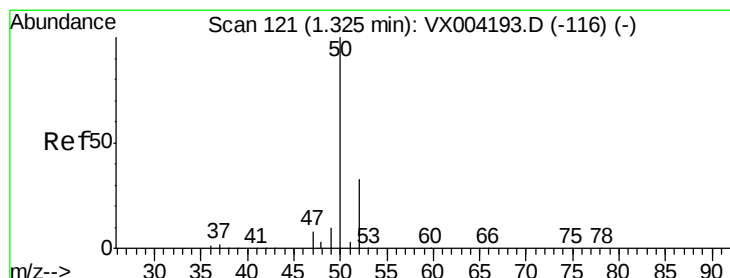
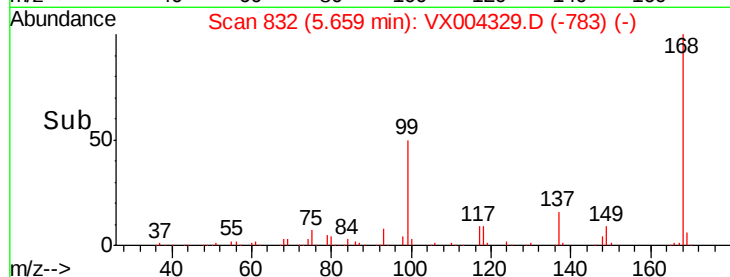
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.54 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004329.D

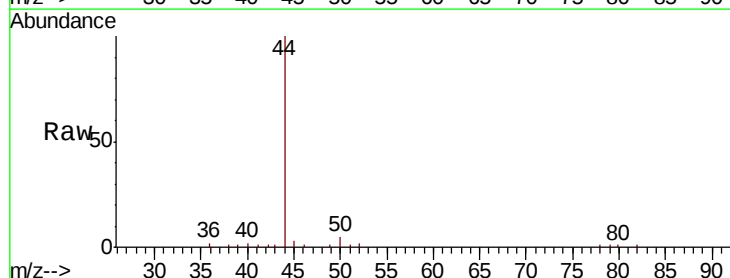
Acq: 31 Aug 2018 16:33

Tgt Ion: 50 Resp: 909

Ion Ratio Lower Upper

50 100

52 35.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

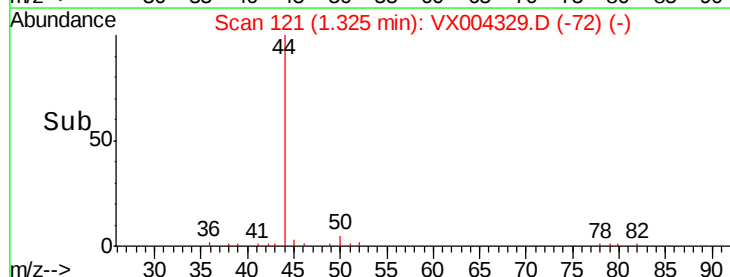
400

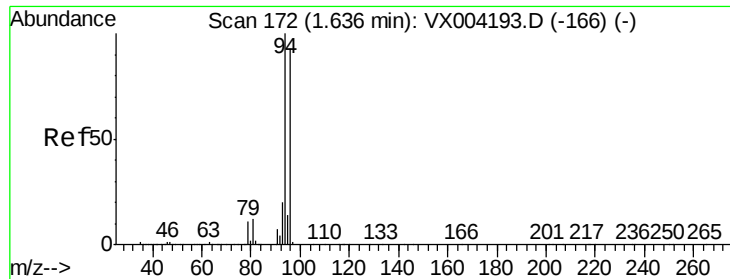
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

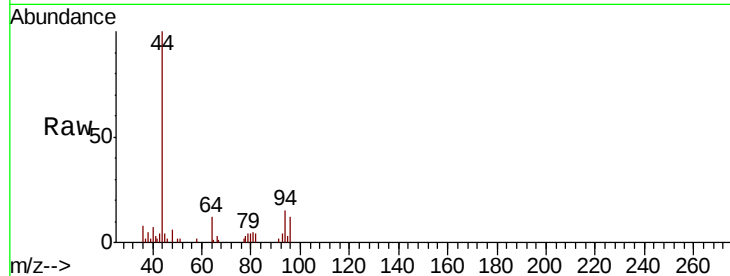
VX0831WBL01

Tot Ion: 94 Resp: 1471

Ion Ratio Lower Upper

94 100

96 81.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

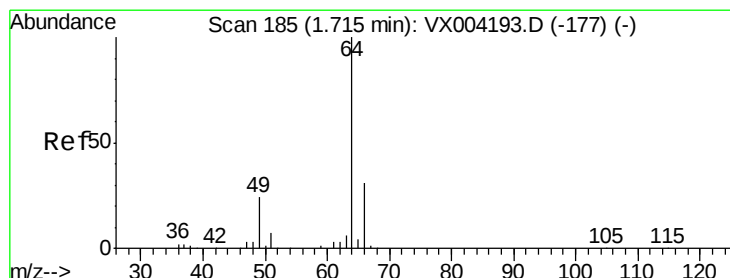
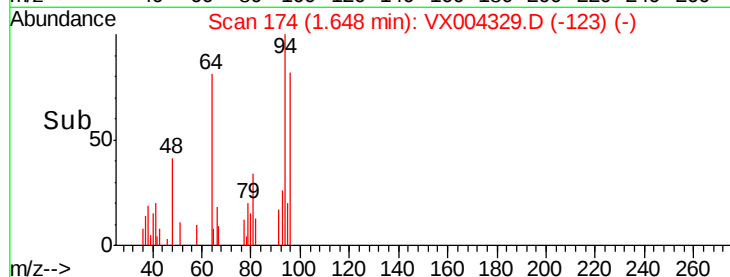
200

0

1.60 1.65 1.70 1.75

1.65

Time-->



#6

Chloroethane

Concen: 1.17 ug/l

RT: 1.71 min Scan# 185

Delta R.T. -0.00 min

Lab File: VX004329.D

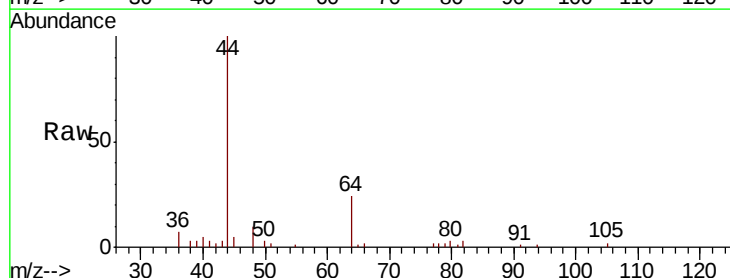
Acq: 31 Aug 2018 16:33

Tgt Ion: 64 Resp: 603

Ion Ratio Lower Upper

64 100

66 11.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1500

1000

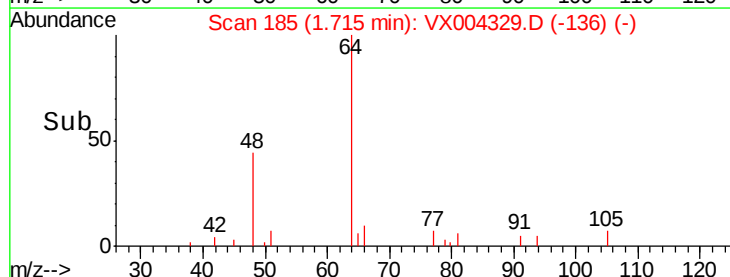
500

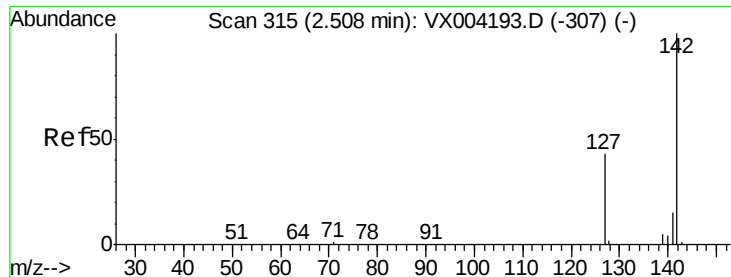
0

1.68 1.70 1.72 1.74

1.71

Time-->

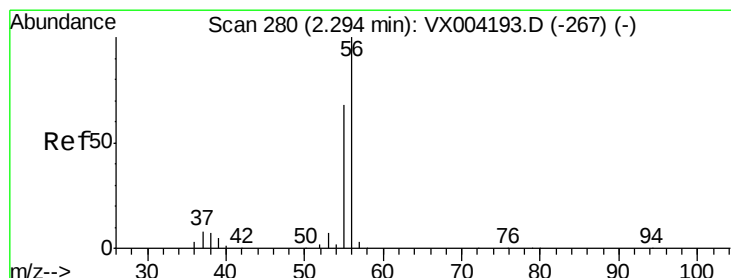
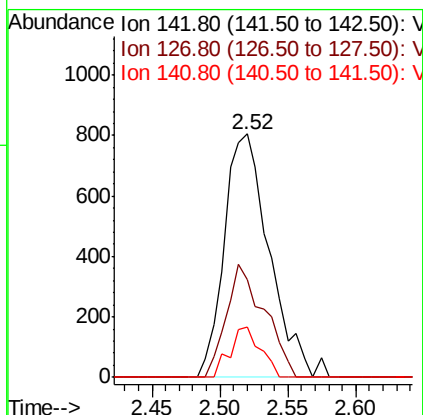
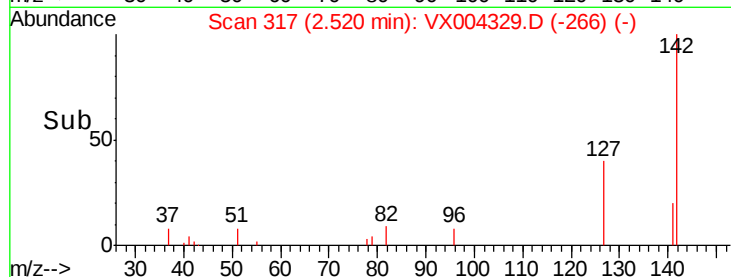
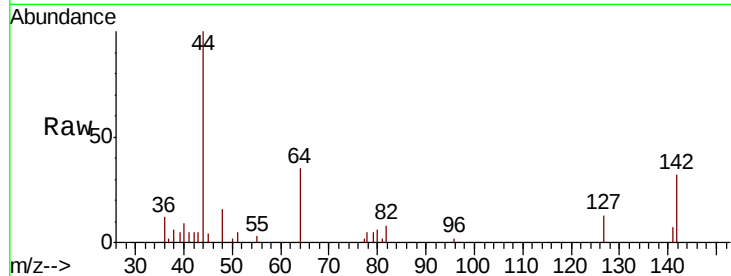




#10
Methvl Iodide
Concen: 4.75 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

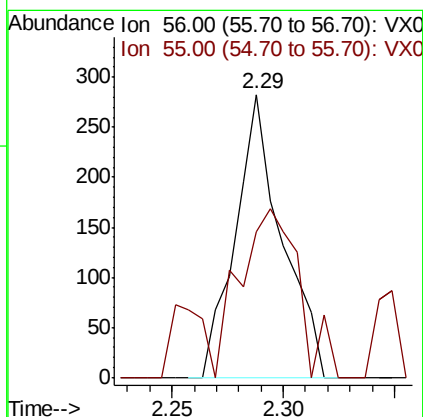
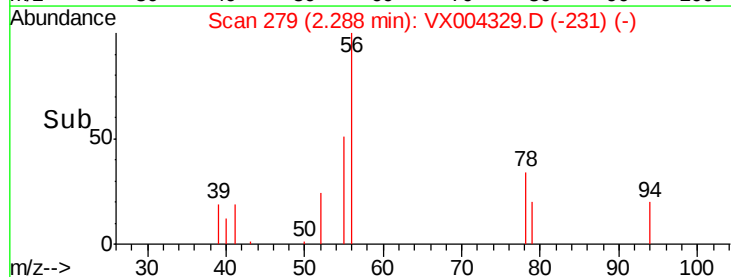
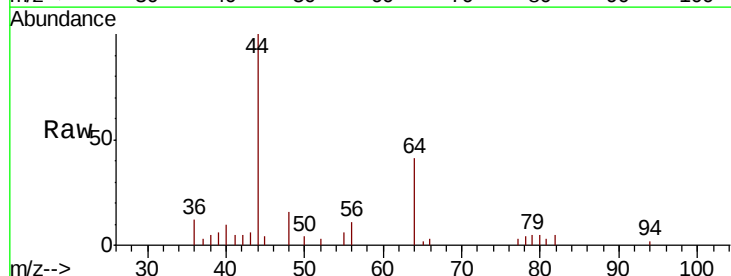
Instrument :
MSVOA_X
ClientSampled :
VX0831WBL01

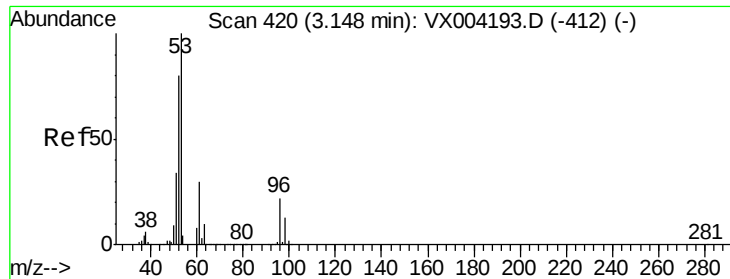
Tot Ion:142 Resp: 1862
Ion Ratio Lower Upper
142 100
127 39.4 33.8 50.6
141 13.9 11.4 17.0



#13
Acrolein
Concen: 2.19 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Tgt Ion: 56 Resp: 409
Ion Ratio Lower Upper
56 100
55 75.3 54.7 82.1





#15

Acrylonitrile

Concen: 0.39 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

VX0831WBL01

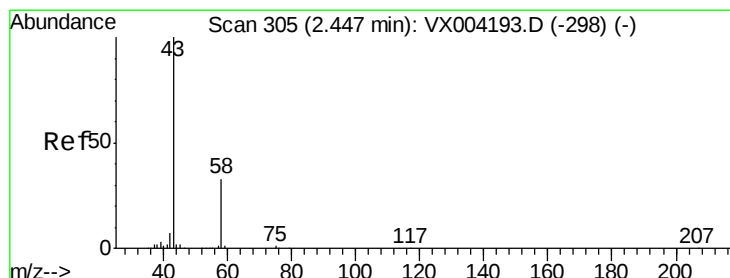
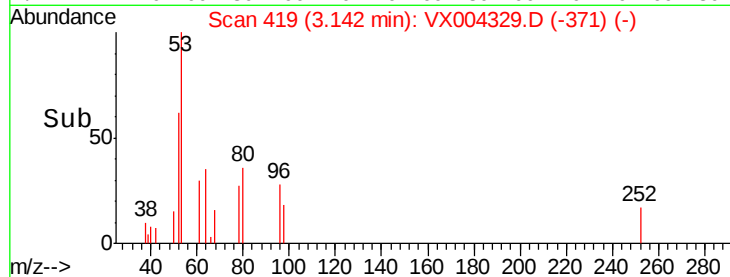
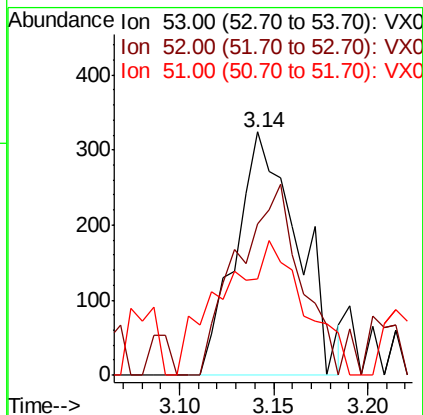
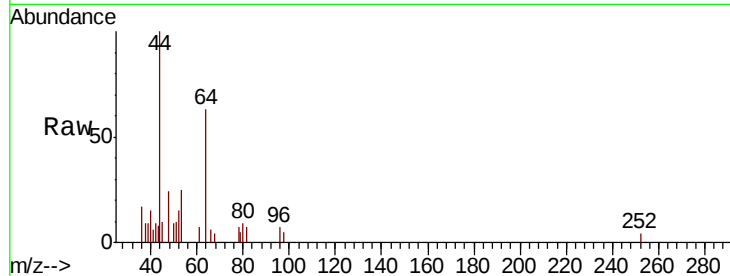
Tot Ion: 53 Resp: 740

Ion Ratio Lower Upper

53 100

52 79.7 65.2 97.8

51 74.1 28.2 42.2#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004329.D

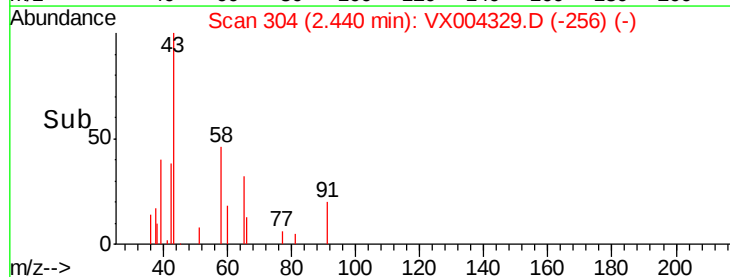
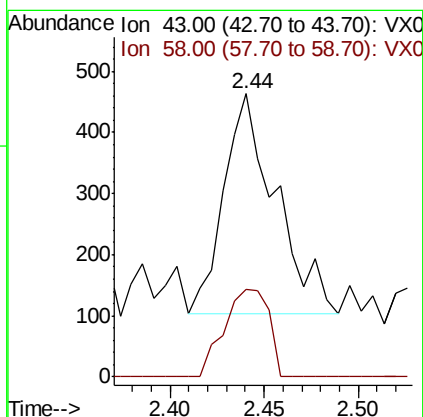
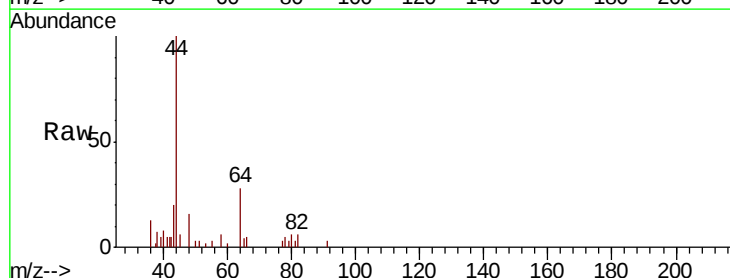
Acq: 31 Aug 2018 16:33

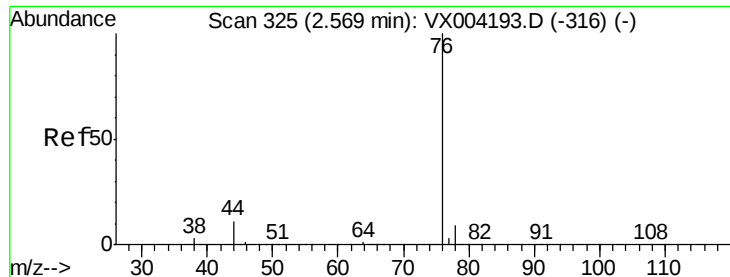
Tgt Ion: 43 Resp: 689

Ion Ratio Lower Upper

43 100

58 40.0 26.2 39.4#





#17

Carbon Disulfide

Concen: 0.97 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

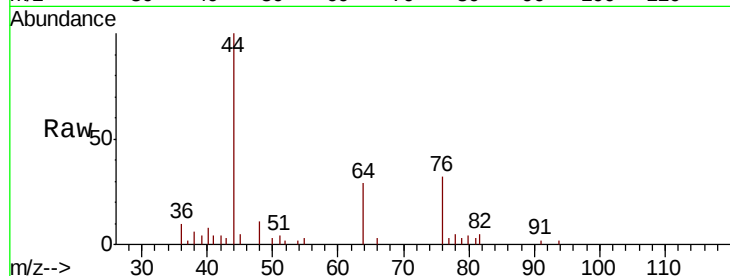
VX0831WBL01

Tot Ion: 76 Resp: 1436

Ion Ratio Lower Upper

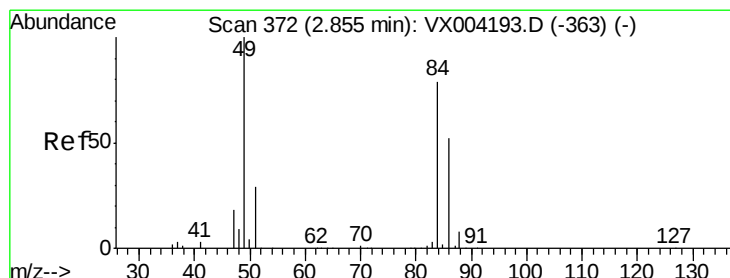
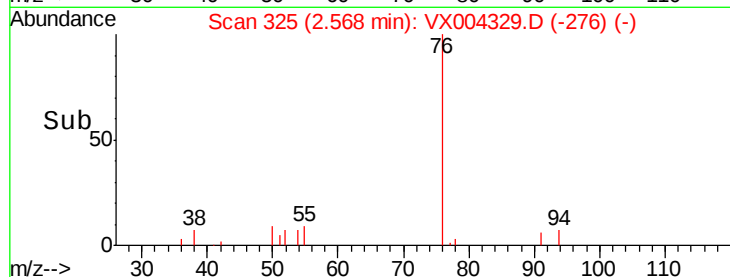
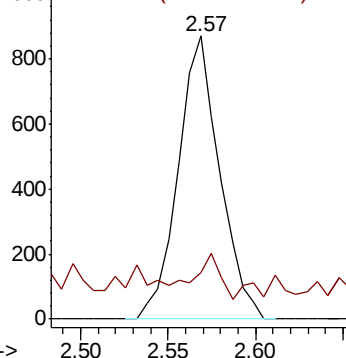
76 100

78 5.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.20 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Tgt Ion: 84 Resp: 706

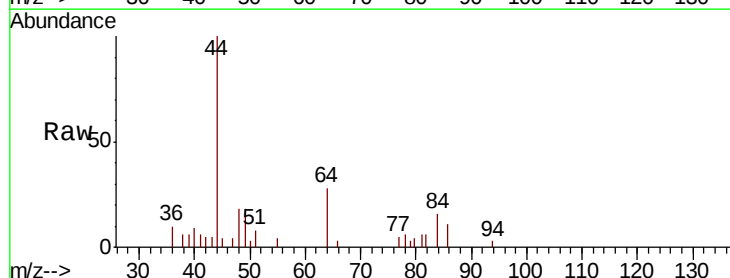
Ion Ratio Lower Upper

84 100

49 116.7 101.2 151.8

51 51.7 29.5 44.3#

86 70.9 52.3 78.5

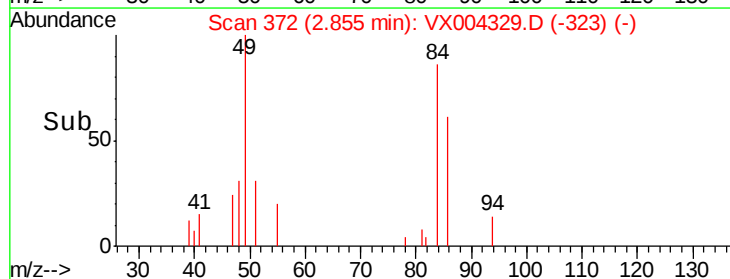
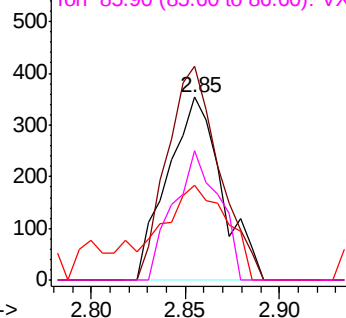


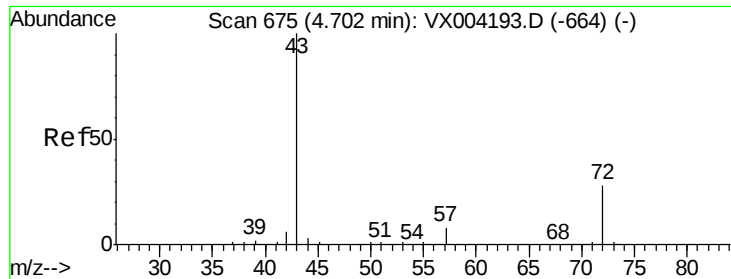
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: Below Cal

RT: 4.68 min Scan# 671

Delta R.T. -0.02 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

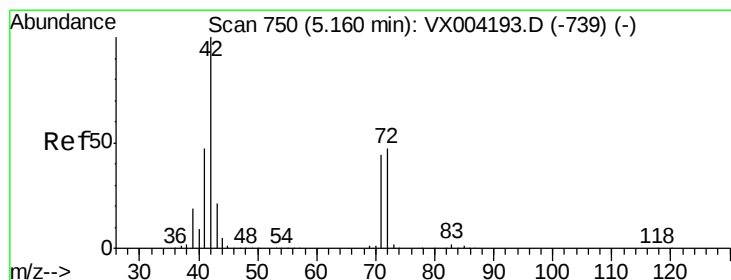
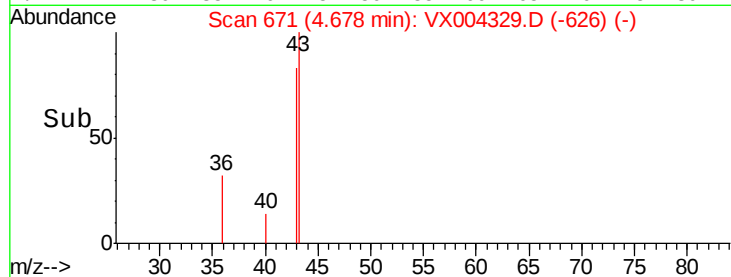
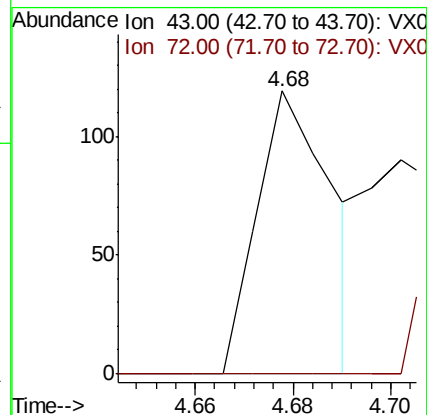
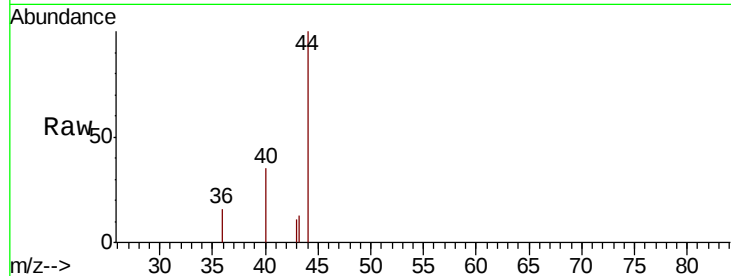
VX0831WBL01

Tot Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.46 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.01 min

Lab File: VX004329.D

Acq: 31 Aug 2018 16:33

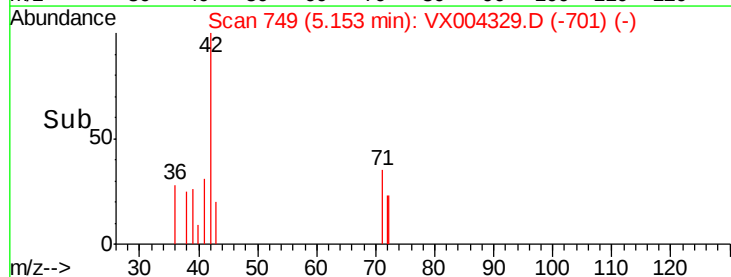
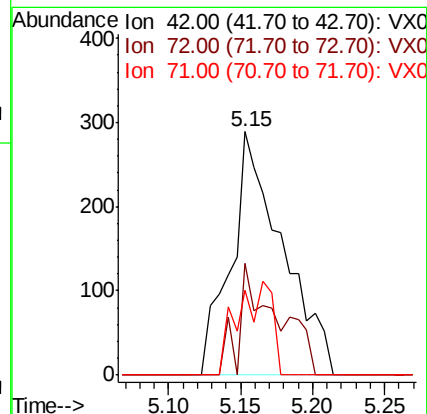
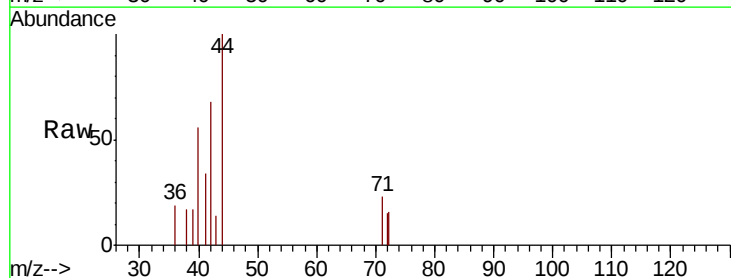
Tgt Ion: 42 Resp: 717

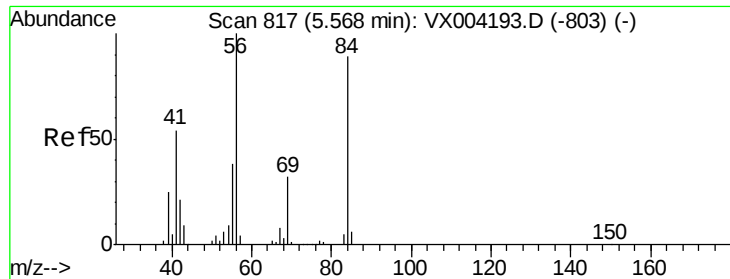
Ion Ratio Lower Upper

42 100

72 25.1 37.4 56.0#

71 25.8 34.5 51.7#

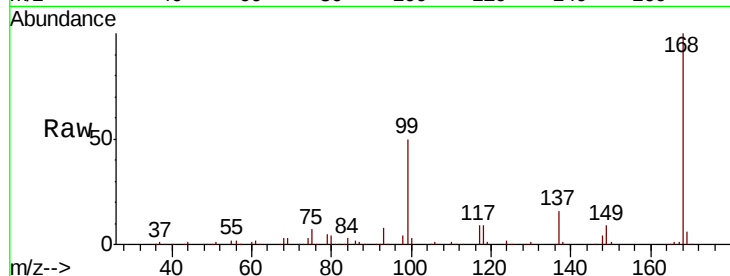




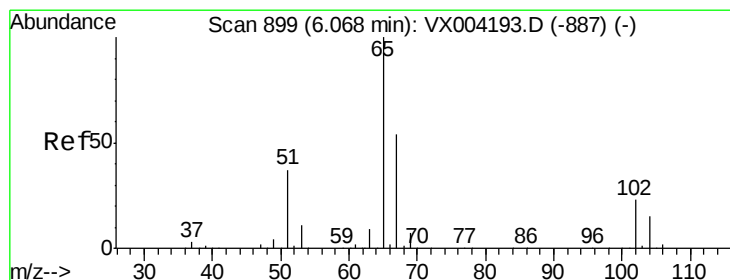
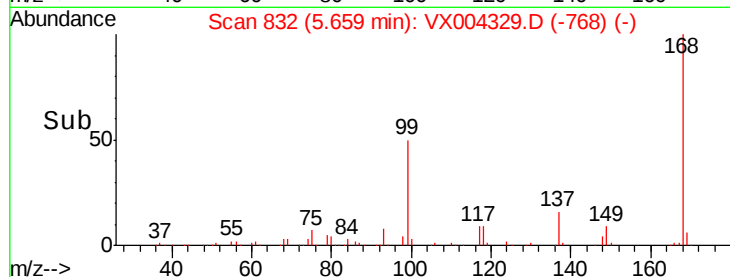
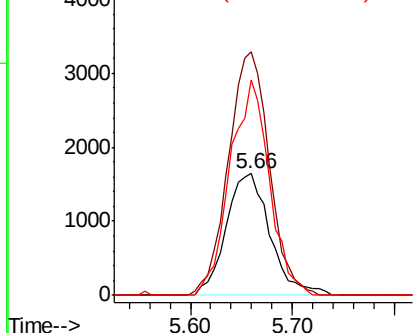
#31
Cyclohexane
Concen: 0.97 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Instrument :
MSVOA_X
ClientSampleId :
VX0831WBL01

Tot Ion: 56 Resp: 4930
Ion Ratio Lower Upper
56 100
69 200.4 25.4 38.2#
84 177.6 71.4 107.2#

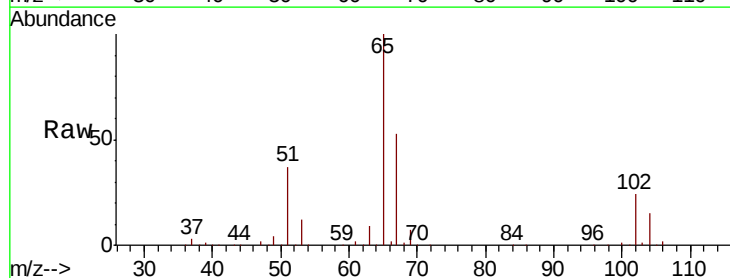


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

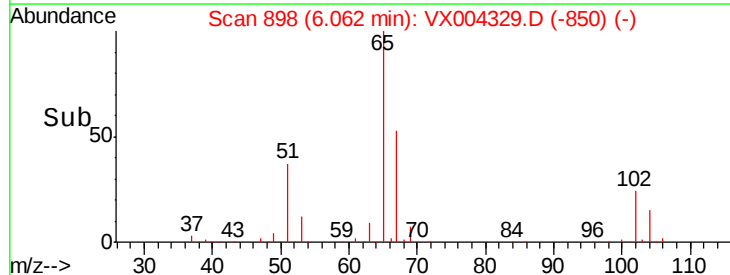
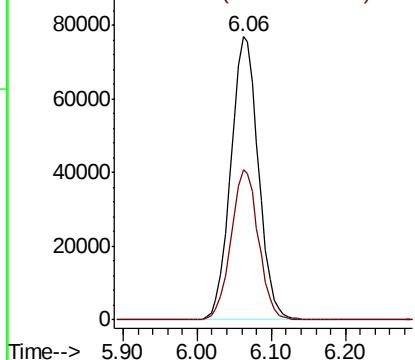


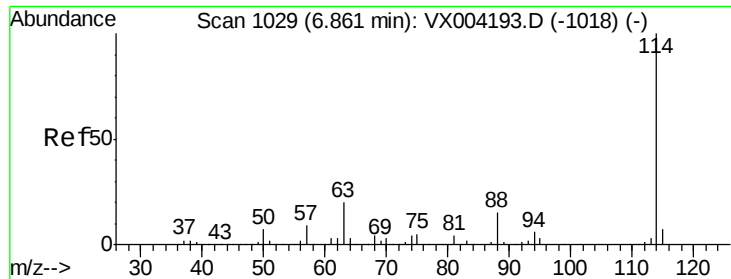
#33
1,2-Dichloroethane-d4
Concen: 54.98 ug/l
RT: 6.06 min Scan# 898
Delta R.T. -0.01 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Tgt Ion: 65 Resp: 199867
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

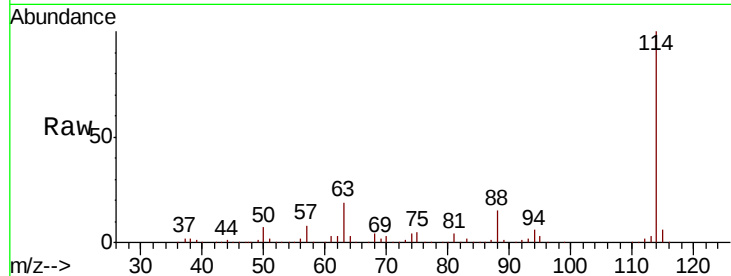




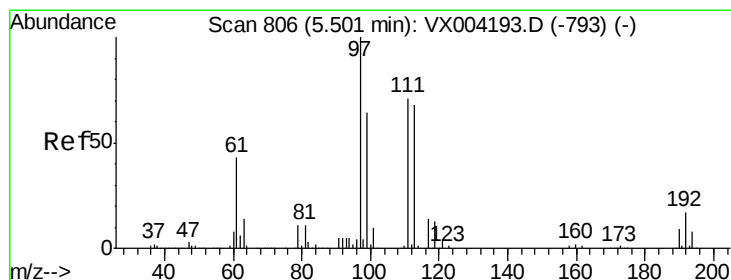
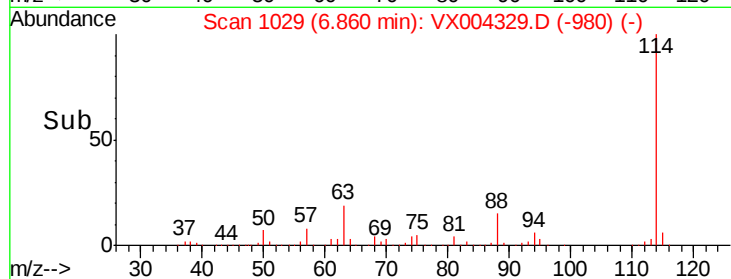
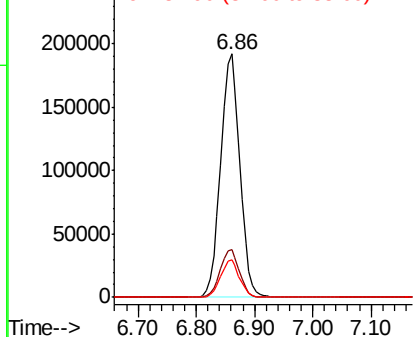
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0831WBL01

Tot Ion:114 Resp: 440380
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.4 0.0 30.4

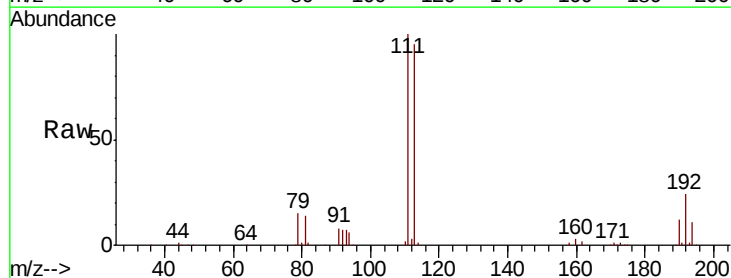


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

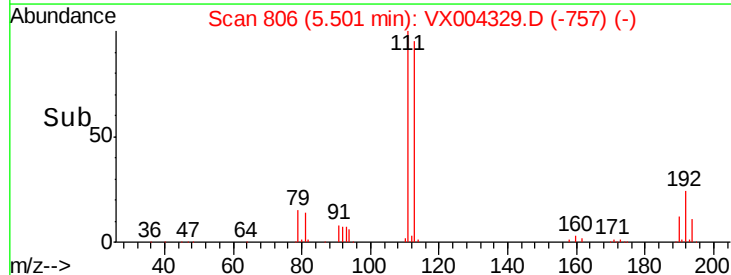
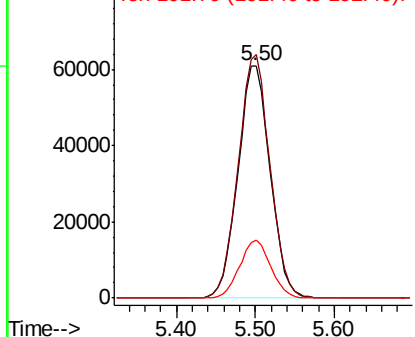


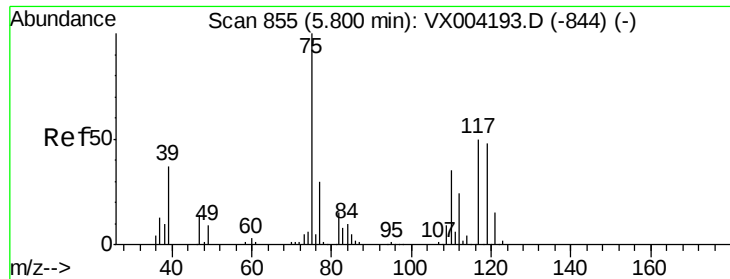
#35
 Dibromofluoromethane
 Concen: 52.85 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Tgt Ion:113 Resp: 173140
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.4 123.6
 192 24.2 19.4 29.2



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

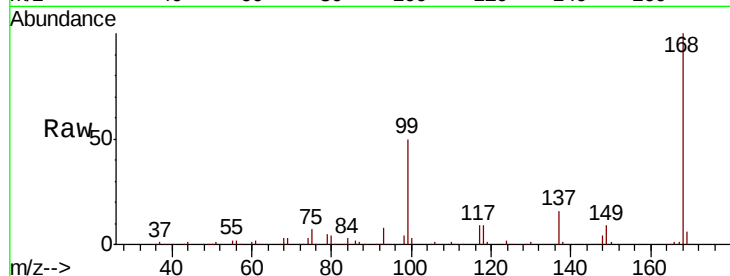




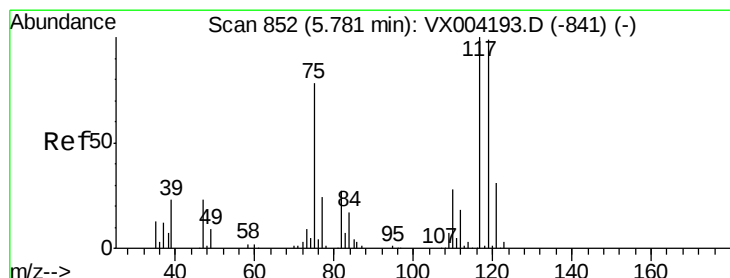
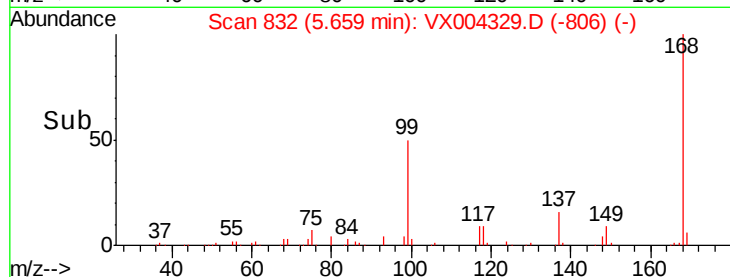
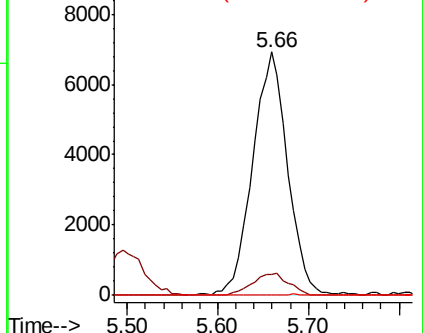
#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0831WBL01

Tot Ion: 75 Resp: 18442
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.0 54.0#
 77 0.0 24.6 36.8#

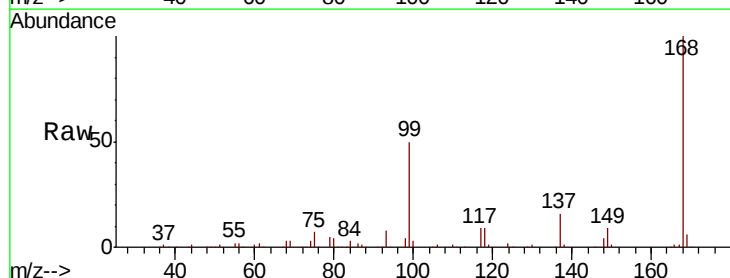


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

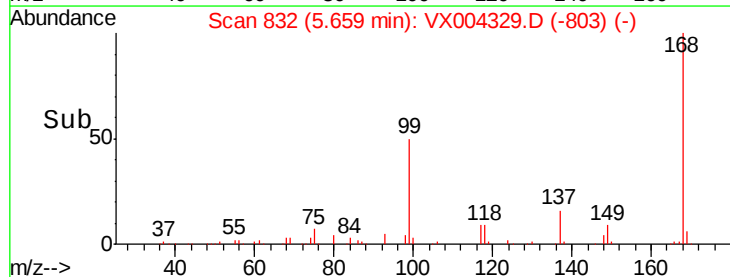
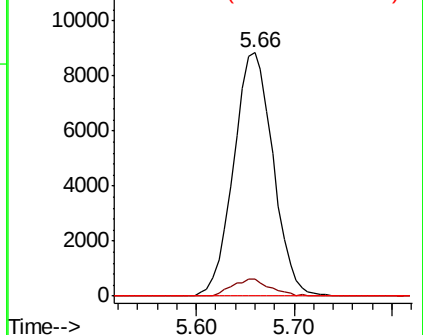


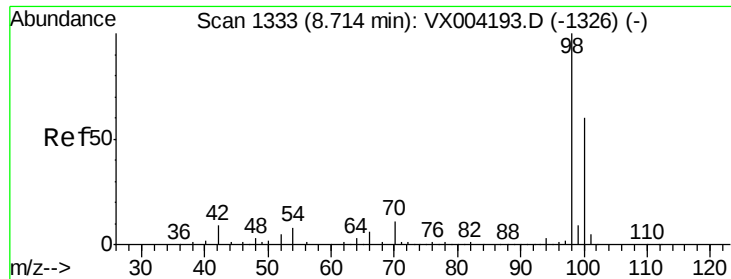
#38
 Carbon Tetrachloride
 Concen: 5.31 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.12 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Tgt Ion:117 Resp: 24727
 Ion Ratio Lower Upper
 117 100
 119 7.1 78.8 118.2#
 121 0.0 24.9 37.3#



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

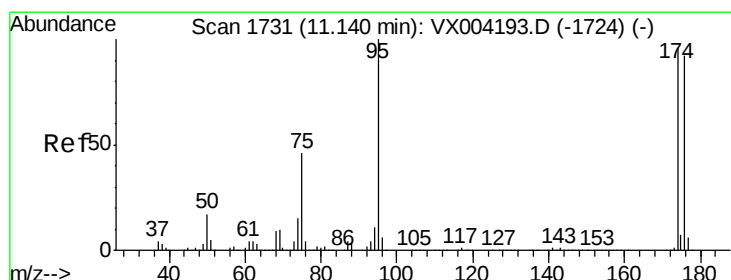
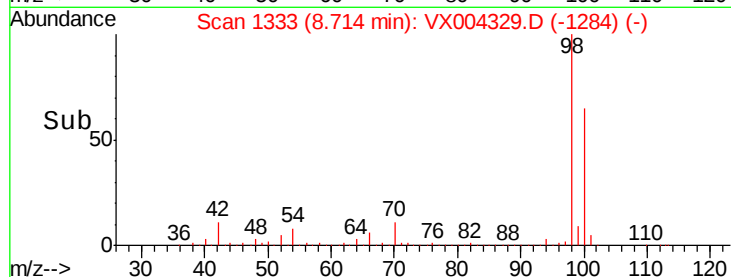
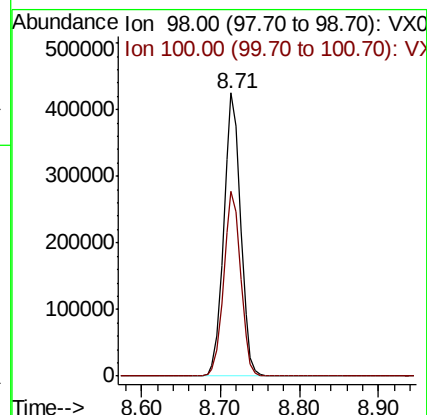
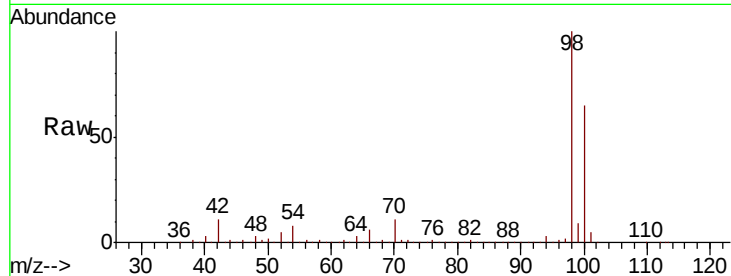




#50
Toluene-d8
Concen: 51.07 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

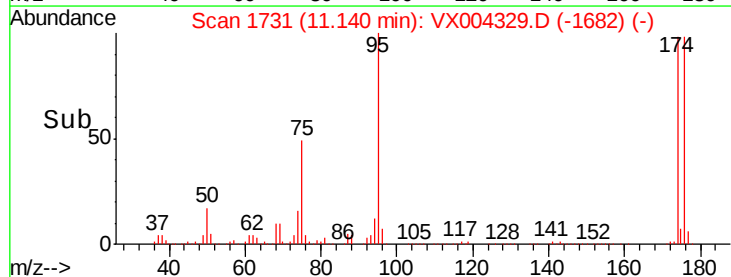
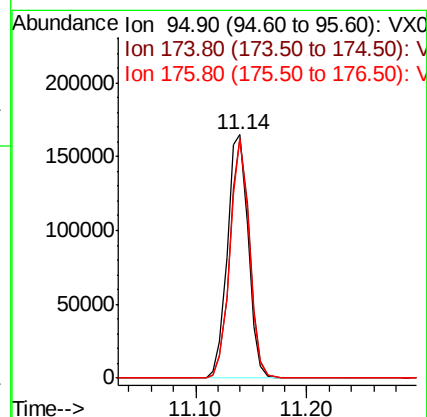
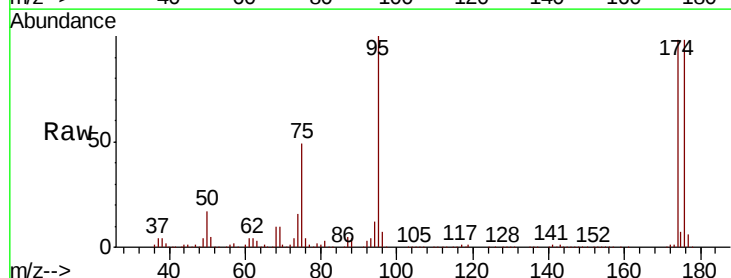
Instrument :
MSVOA_X
ClientSampleId :
VX0831WBL01

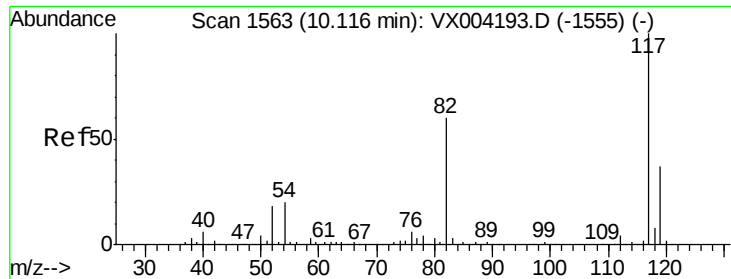
Tot Ion: 98 Resp: 631578
Ion Ratio Lower Upper
98 100
100 65.6 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 46.42 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Tgt Ion: 95 Resp: 214184
Ion Ratio Lower Upper
95 100
174 93.1 0.0 185.2
176 90.7 0.0 178.6

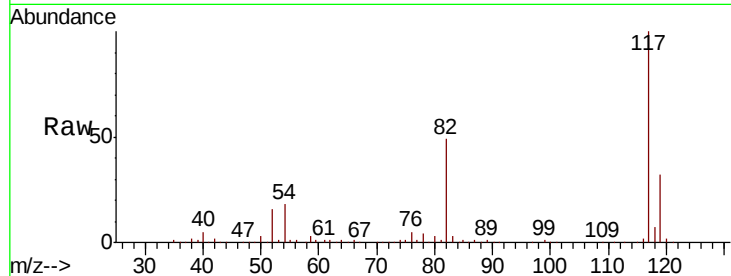




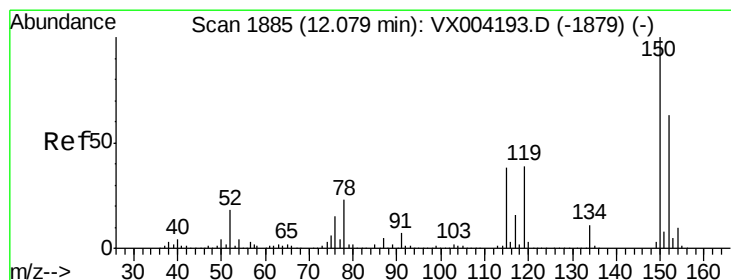
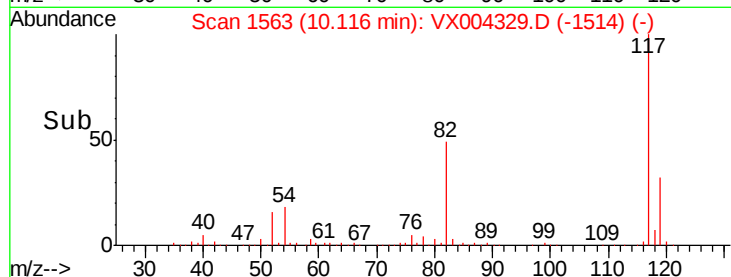
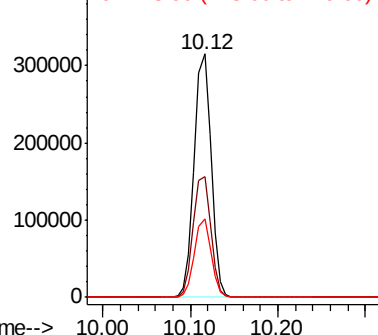
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Instrument :
MSVOA_X
ClientSampleId :
VX0831WBL01

Tot Ion:117 Resp: 424874
Ion Ratio Lower Upper
117 100
82 49.5 47.8 71.6
119 32.4 29.3 43.9

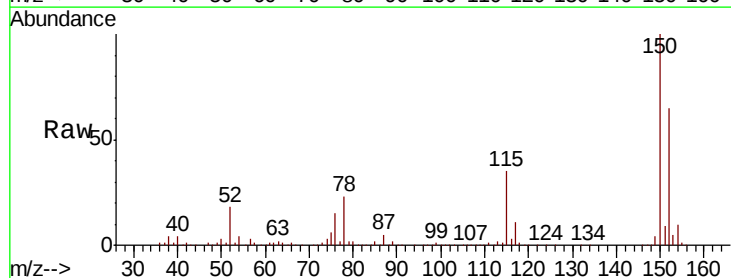


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

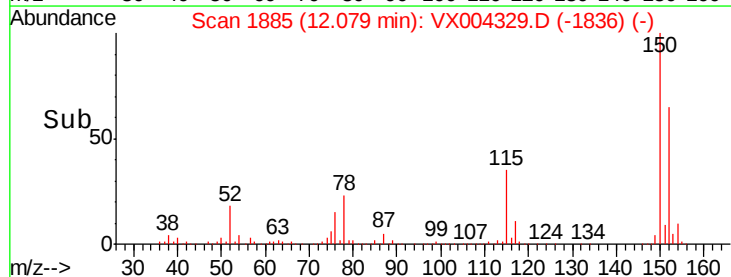
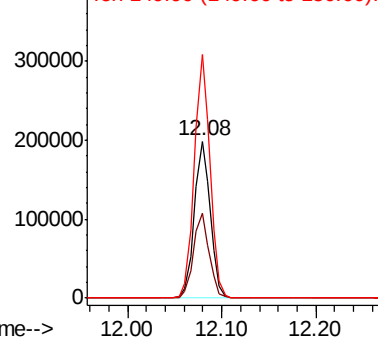


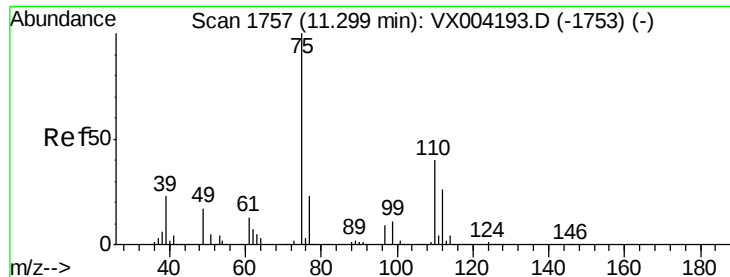
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004329.D
Acq: 31 Aug 2018 16:33

Tgt Ion:152 Resp: 232190
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 153.5 0.0 351.0



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

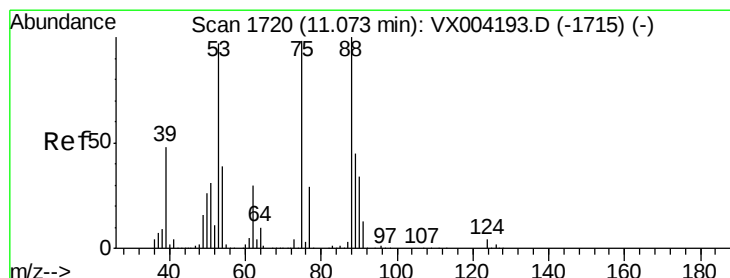
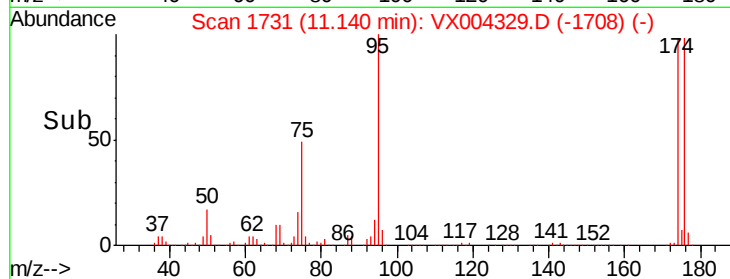
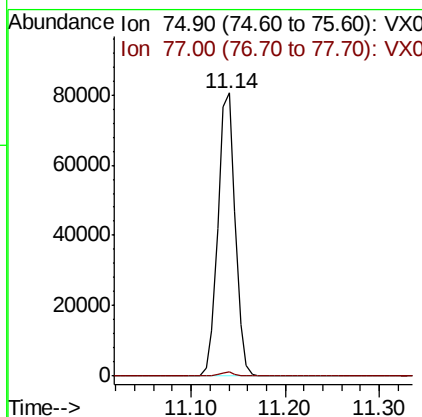
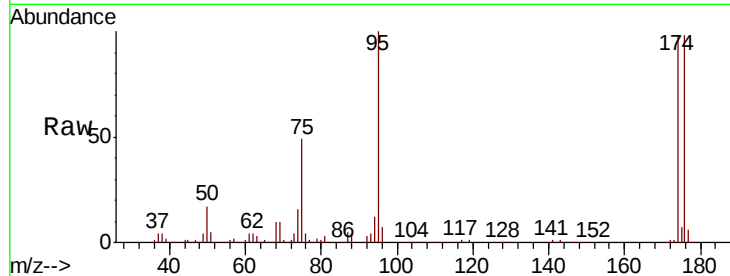




#76
 1,2,3-Trichloropropane
 Concen: 21.80 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0831WBL01

Tot Ion: 75 Resp: 102940
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.07 min
 Lab File: VX004329.D
 Acq: 31 Aug 2018 16:33

Tgt Ion: 75 Resp: 102940
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

