

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090418\
 Data File : VX004341.D
 Acq On : 04 Sep 2018 12:38
 Operator : JC/MD
 Sample : VX0904MBL01
 Misc : 5.00µl/10mL/100µL/5.0mL/MSVOA_X/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0904MBL01

Quant Time: Sep 05 06:38:03 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	276977	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	436386	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	405876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222028	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	195023	54.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.04%	
35) Dibromofluoromethane	5.50	113	171995	52.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.96%	
50) Toluene-d8	8.71	98	626187	51.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.20%	
62) 4-Bromofluorobenzene	11.14	95	210285	45.99	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.98%	

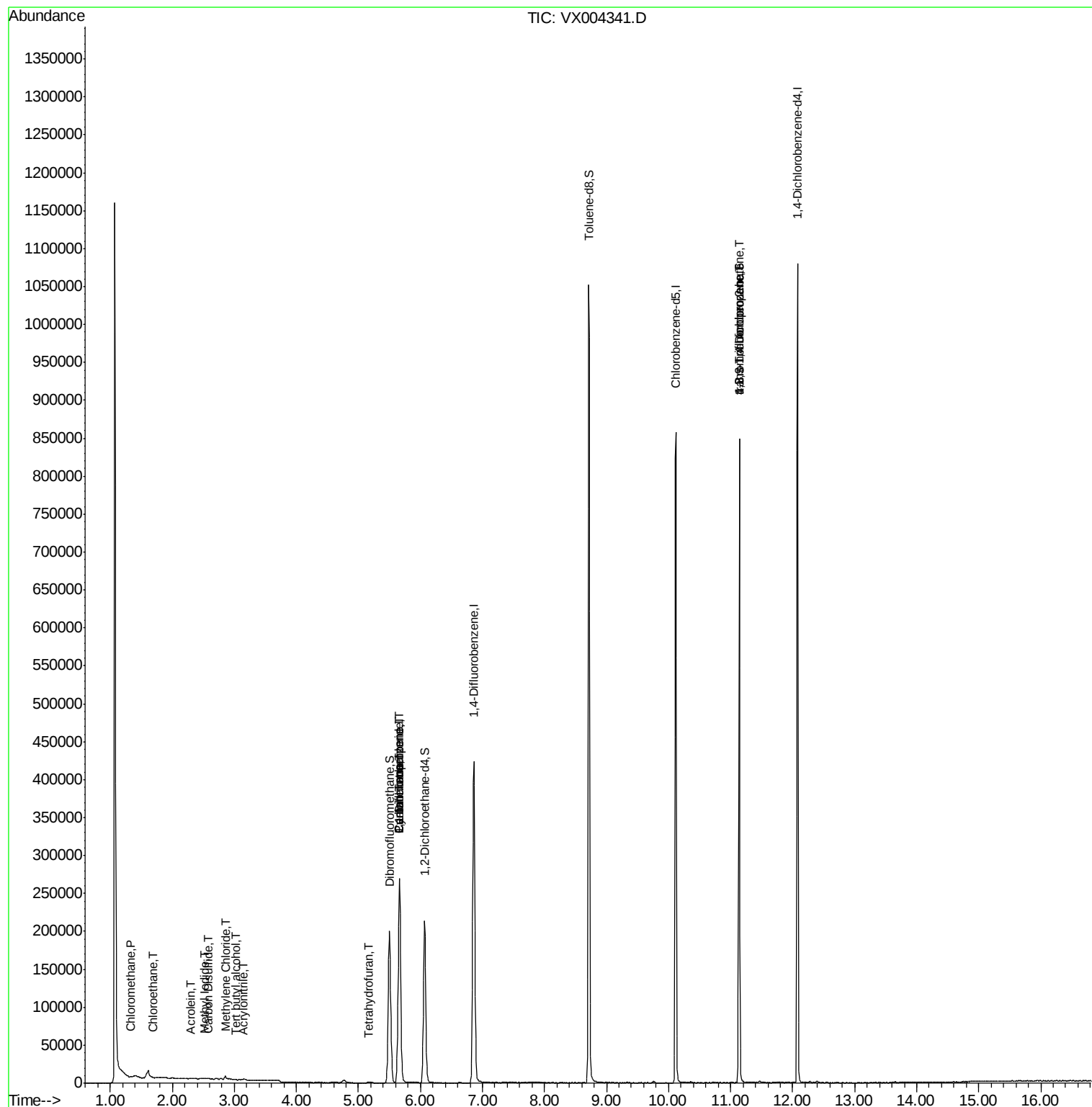
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	949	0.56	ug/l	94
5) Bromomethane	1.64	94	1532	Below Cal		85
6) Chloroethane	1.70	64	1370	1.44	ug/l #	64
10) Methyl Iodide	2.51	142	681	4.44	ug/l #	84
11) Tert butyl alcohol	3.03	59	267	0.35	ug/l #	94
13) Acrolein	2.29	56	182	0.98	ug/l #	66
15) Acrylonitrile	3.14	53	441	0.23	ug/l #	54
16) Acetone	2.44	43	554	Below Cal	#	42
17) Carbon Disulfide	2.57	76	1269	0.95	ug/l #	43
20) Methylene Chloride	2.86	84	1804	0.52	ug/l	91
25) 2-Butanone	4.71	43	111	Below Cal	#	47
29) Tetrahydrofuran	5.16	42	674	0.43	ug/l #	68
31) Cyclohexane	5.66	56	4966	0.98	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18268	3.72	ug/l #	50
38) Carbon Tetrachloride	5.66	117	24436	5.29	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	103624	22.95	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	103624	74.46	ug/l #	10
94) Hexachlorobutadiene	13.78	225	256	Below Cal		95

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

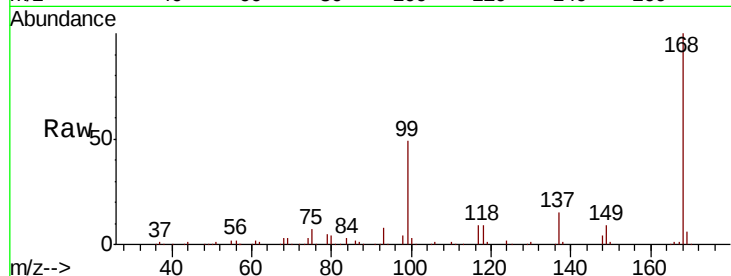
VX0904MBL01

Tot Ion:168 Resp: 276977

Ion Ratio Lower Upper

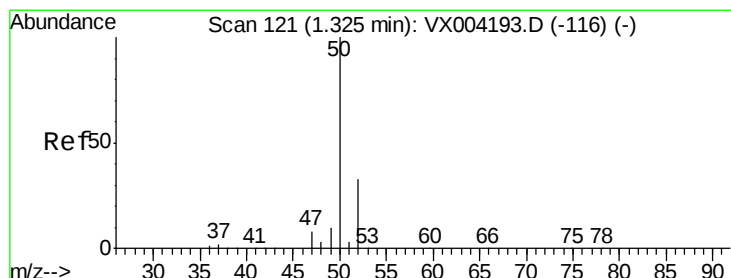
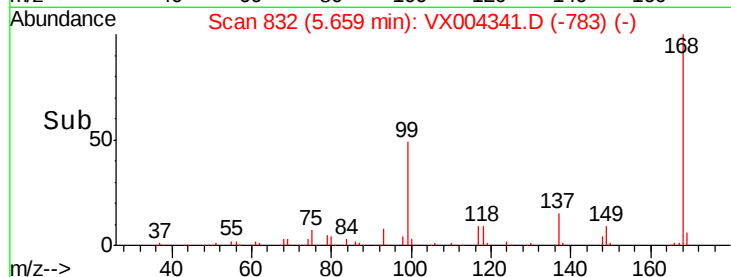
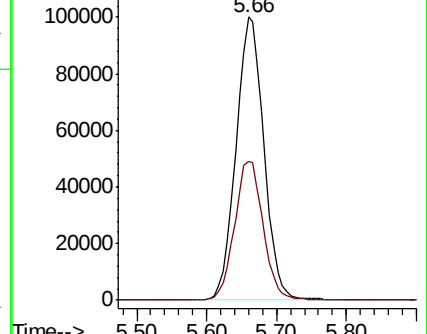
168 100

99 49.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.56 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004341.D

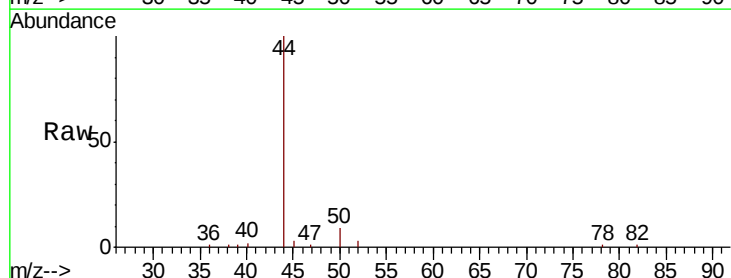
Acq: 04 Sep 2018 12:38

Tgt Ion: 50 Resp: 949

Ion Ratio Lower Upper

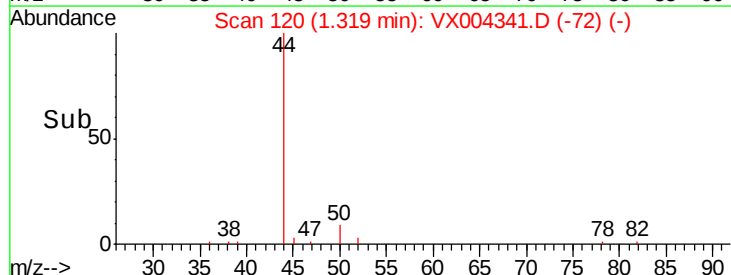
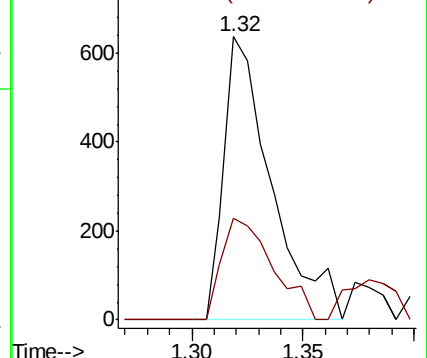
50 100

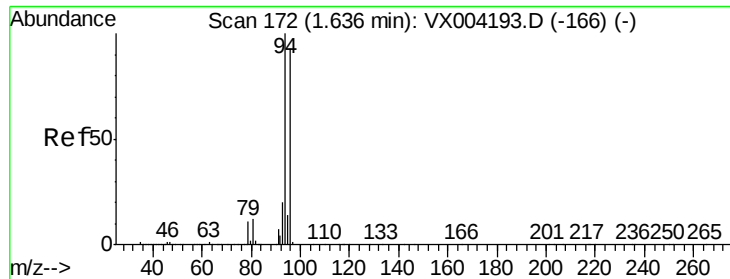
52 36.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

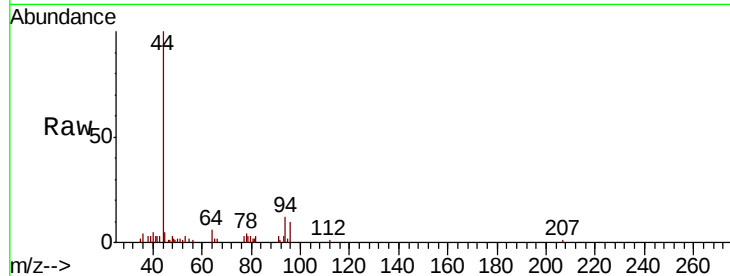
VX0904MBL01

Tot Ion: 94 Resp: 1532

Ion Ratio Lower Upper

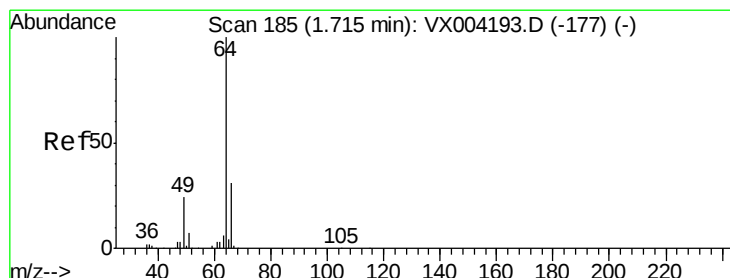
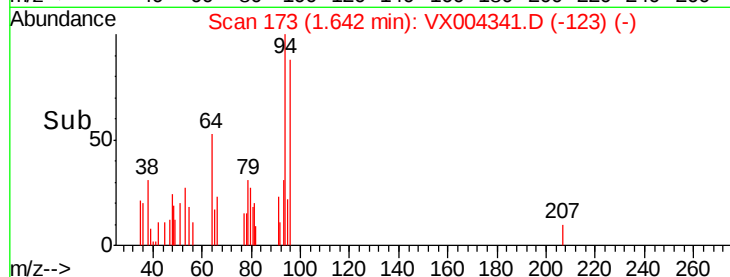
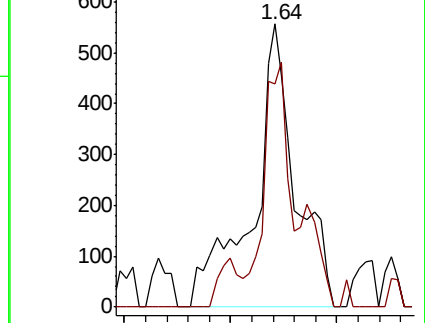
94 100

96 78.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.44 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX004341.D

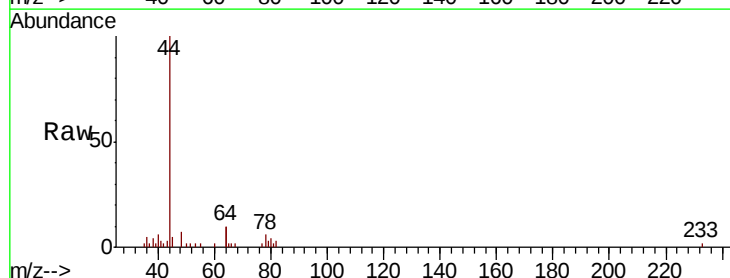
Acq: 04 Sep 2018 12:38

Tgt Ion: 64 Resp: 1370

Ion Ratio Lower Upper

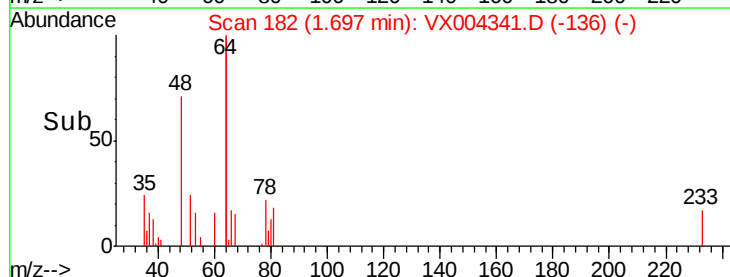
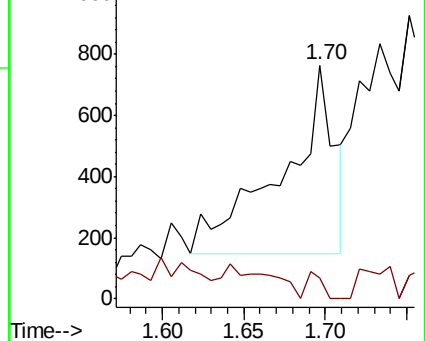
64 100

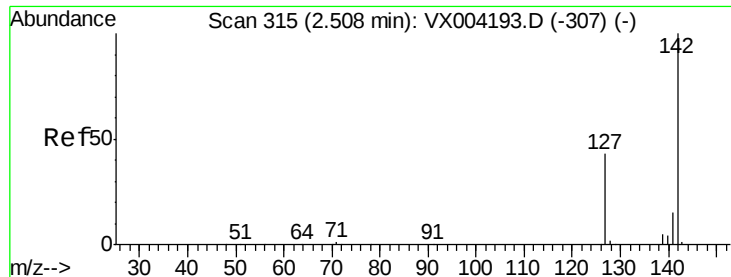
66 10.9 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

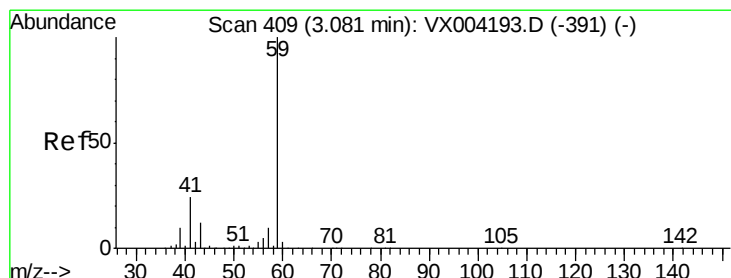
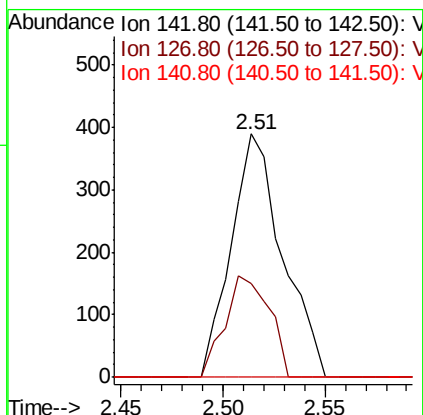
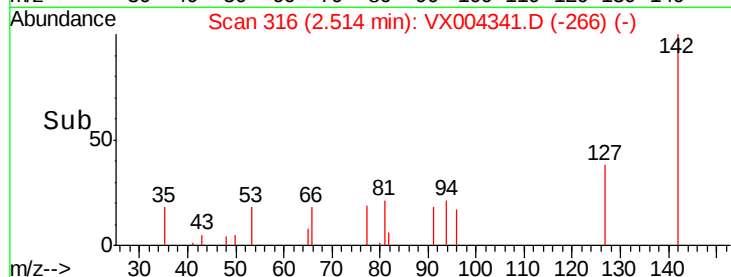
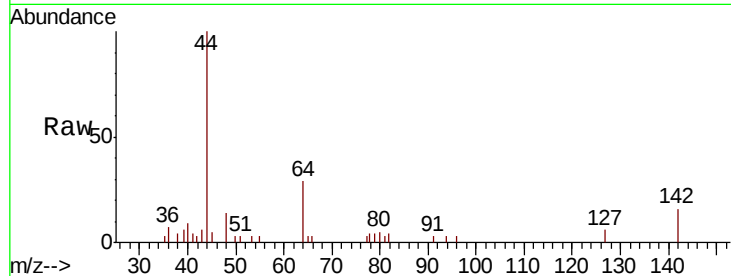




#10
Methvl Iodide
Concen: 4.44 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004341.D
Acq: 04 Sep 2018 12:38

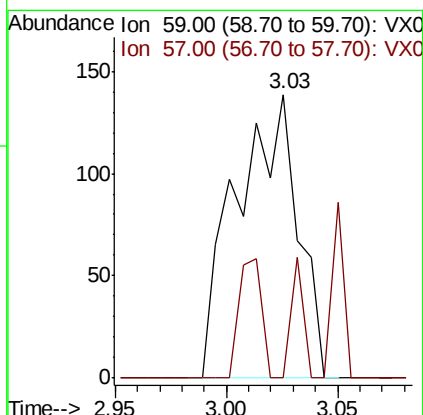
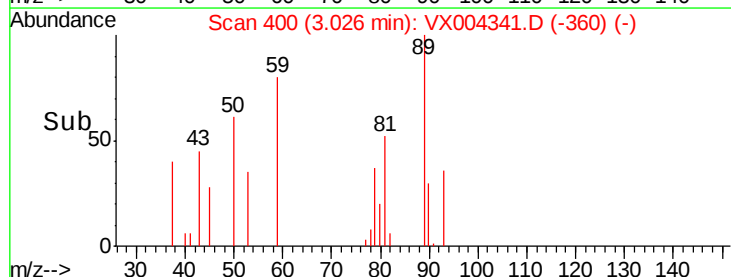
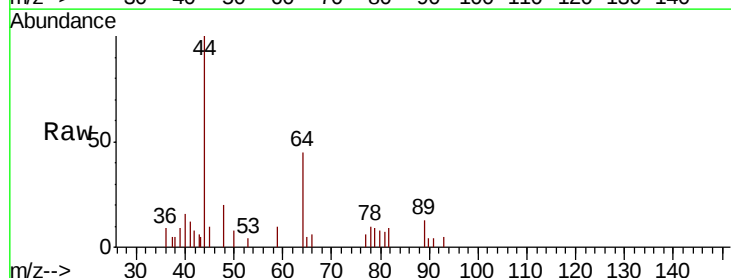
Instrument :
MSVOA_X
ClientSampled :
VX0904MBL01

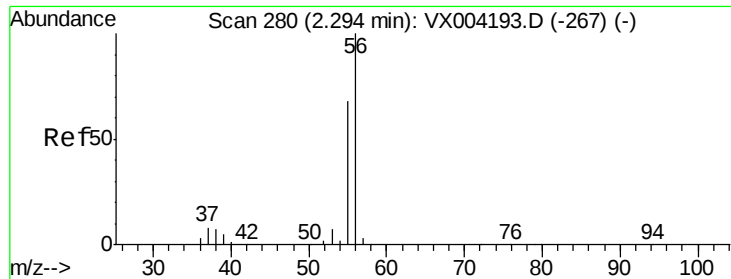
Tot Ion:142 Resp: 681
Ion Ratio Lower Upper
142 100
127 35.8 33.8 50.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.35 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX004341.D
Acq: 04 Sep 2018 12:38

Tgt Ion: 59 Resp: 267
Ion Ratio Lower Upper
59 100
57 8.2 8.2 12.4#





#13

Acrolein

Concen: 0.98 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

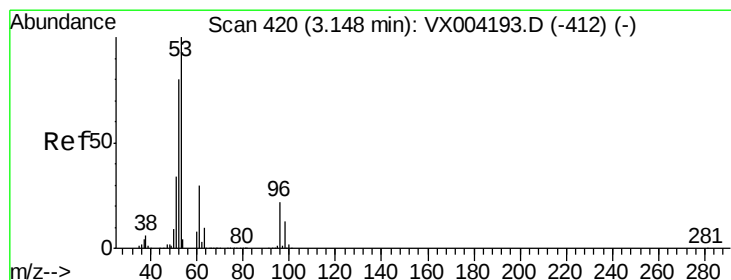
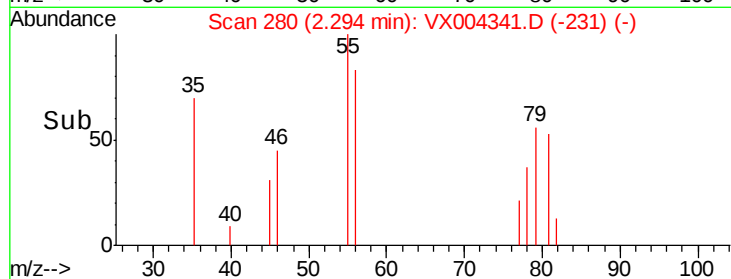
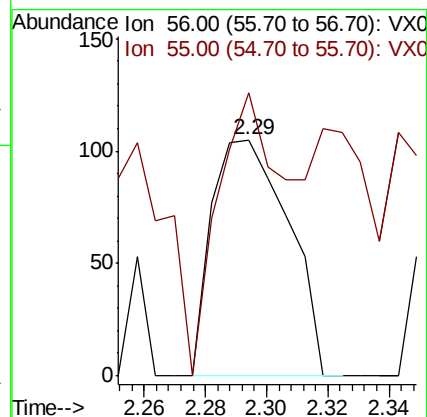
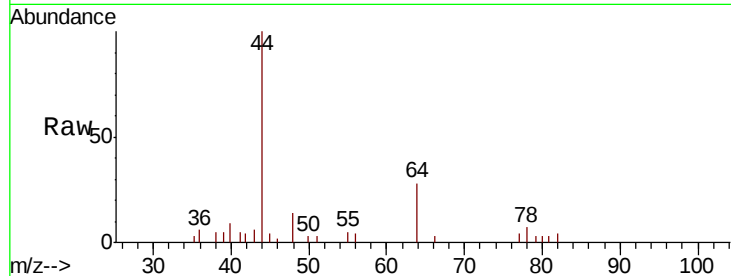
VX0904MBL01

Tot Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 95.6 54.7 82.1#



#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

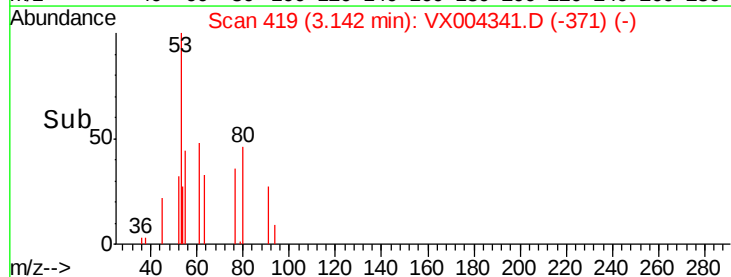
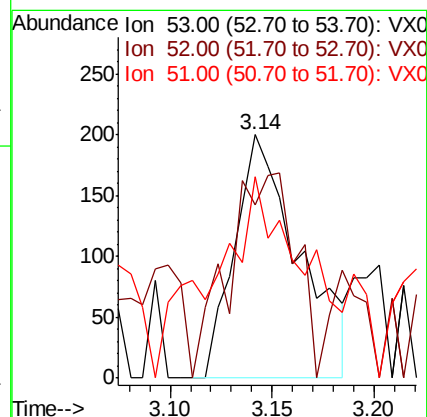
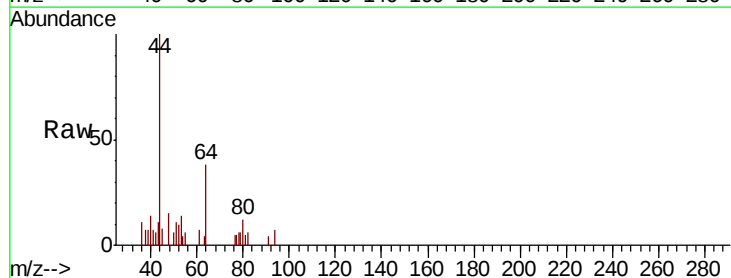
Tgt Ion: 53 Resp: 441

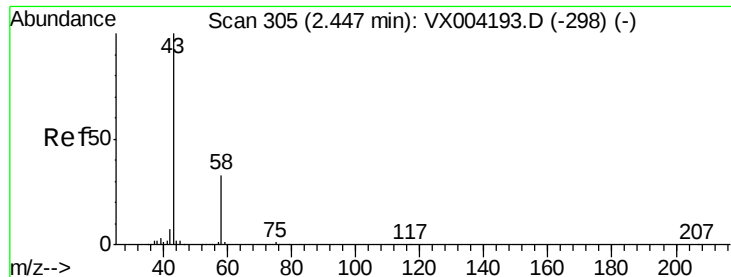
Ion Ratio Lower Upper

53 100

52 86.8 65.2 97.8

51 115.0 28.2 42.2#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampled :

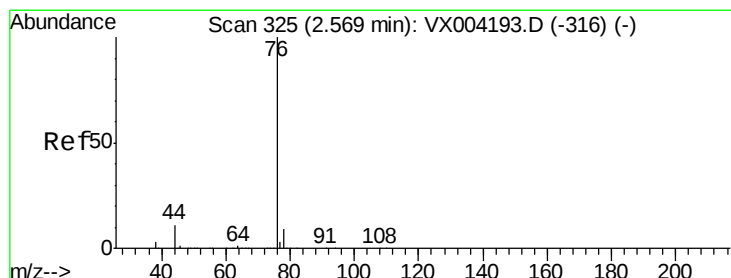
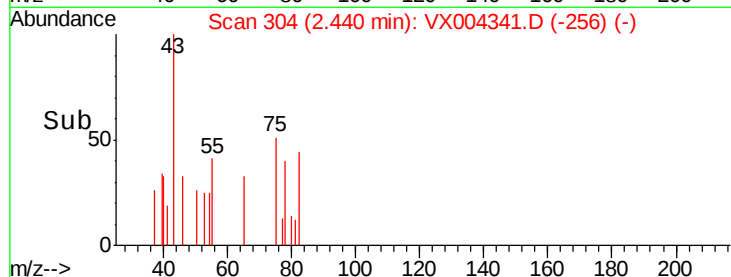
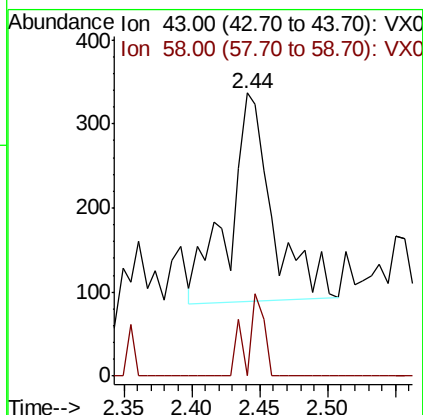
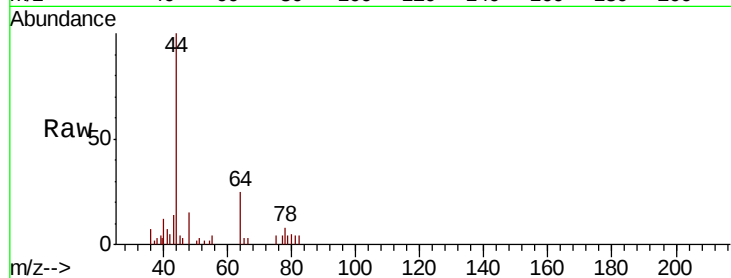
VX0904MBL01

Tot Ion: 43 Resp: 554

Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.4#



#17

Carbon Disulfide

Concen: 0.95 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004341.D

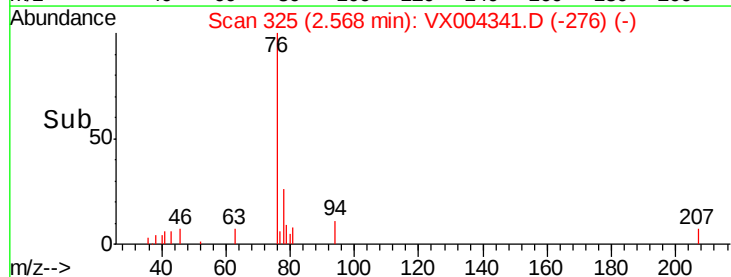
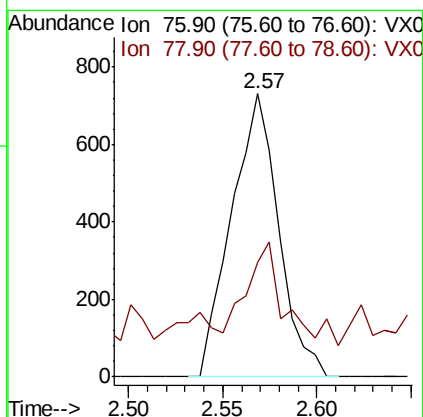
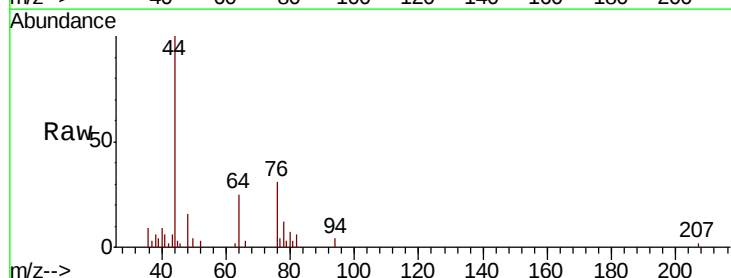
Acq: 04 Sep 2018 12:38

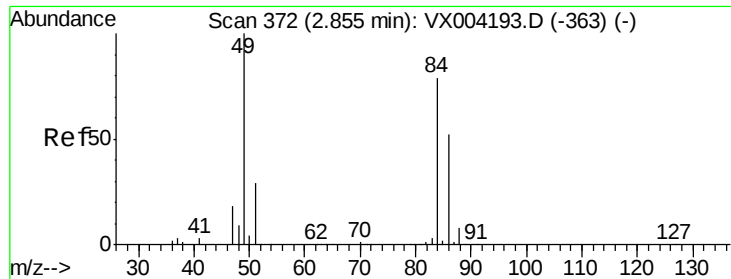
Tgt Ion: 76 Resp: 1269

Ion Ratio Lower Upper

76 100

78 29.3 7.0 10.6#

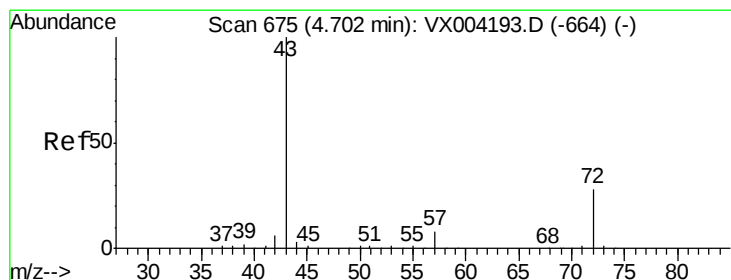
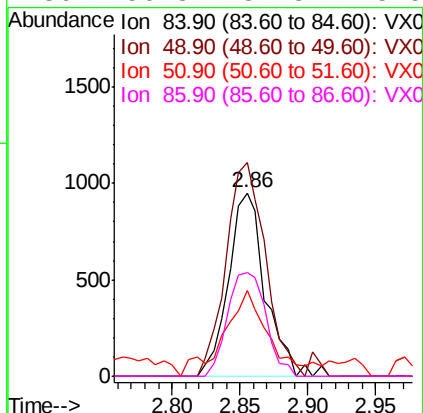
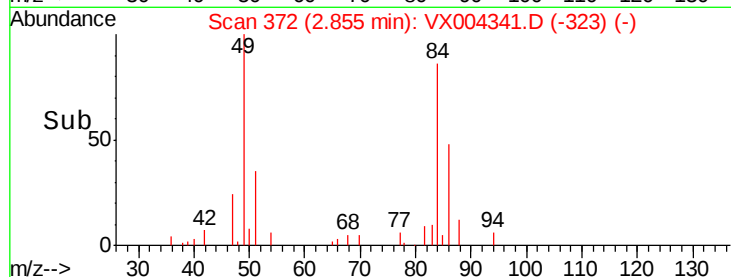
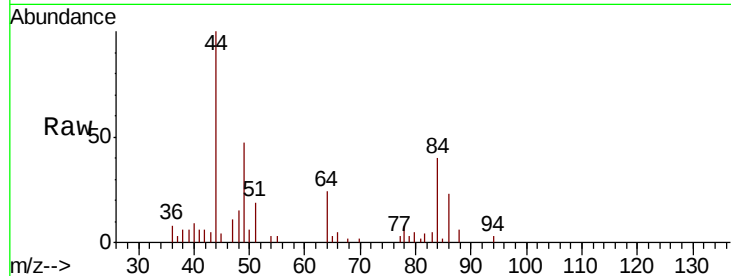




#20
Methvlene Chloride
Concen: 0.52 ua/l
RT: 2.86 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004341.D
Acq: 04 Sep 2018 12:38

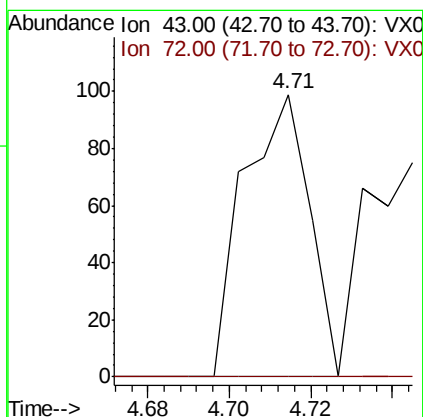
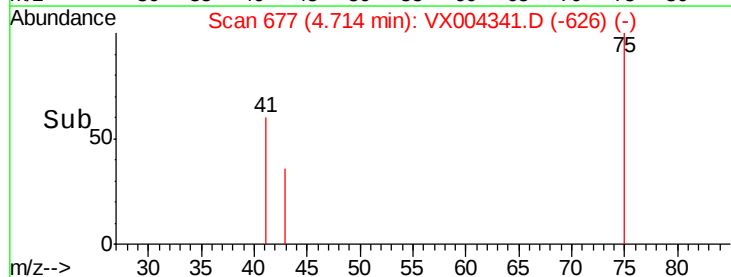
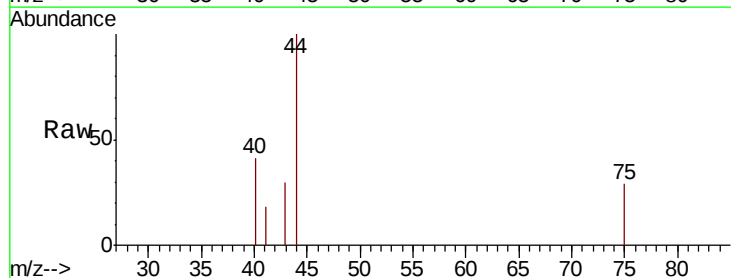
Instrument :
MSVOA_X
ClientSampleId :
VX0904MBL01

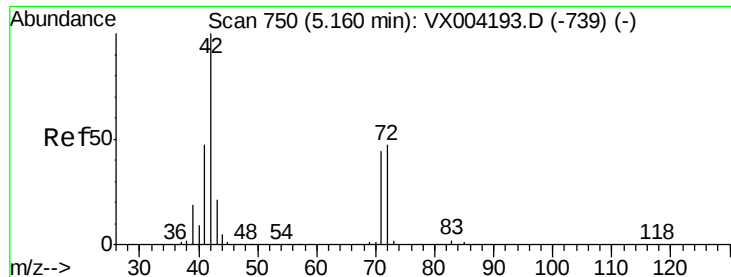
Tot Ion:	84	Resp:	1804
Ion	Ratio	Lower	Upper
84	100		
49	116.4	101.2	151.8
51	39.9	29.5	44.3
86	56.3	52.3	78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX004341.D
Acq: 04 Sep 2018 12:38

Tgt Ion:	43	Resp:	111
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.0	33.0#





#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.00 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0904MBL01

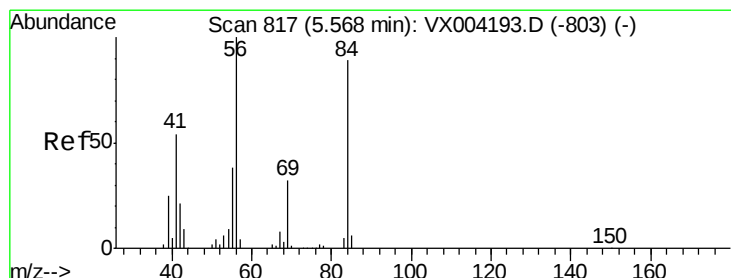
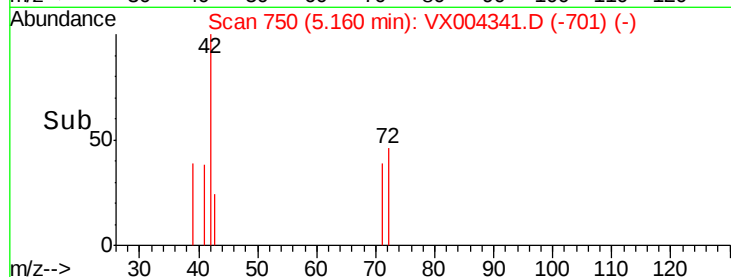
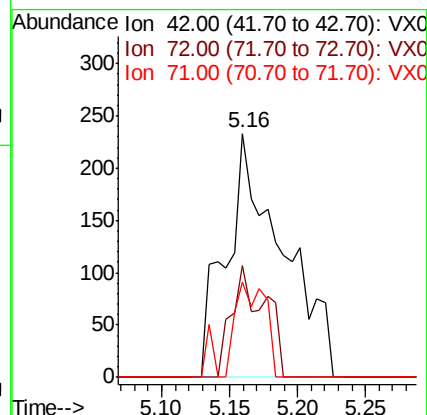
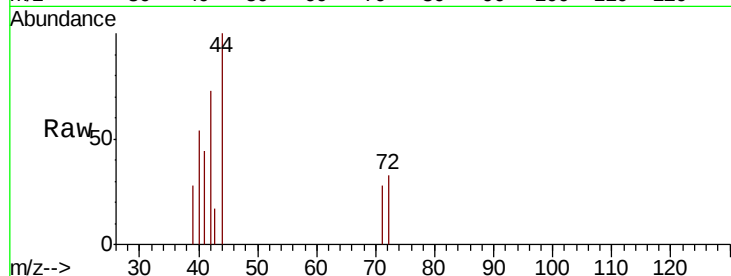
Tot Ion: 42 Resp: 674

Ion Ratio Lower Upper

42 100

72 27.0 37.4 56.0#

71 20.6 34.5 51.7#



#31

Cyclohexane

Concen: 0.98 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

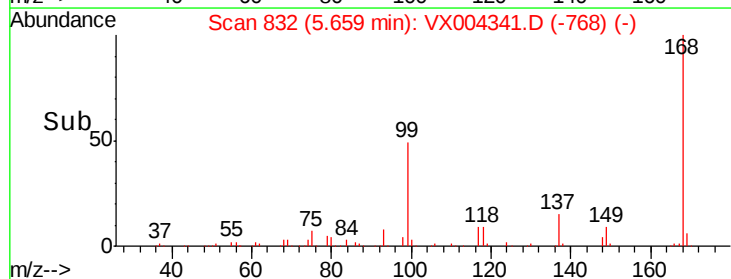
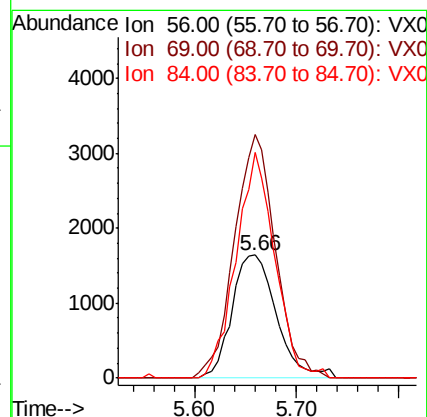
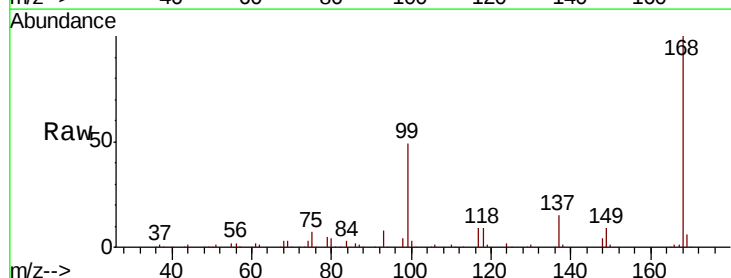
Tgt Ion: 56 Resp: 4966

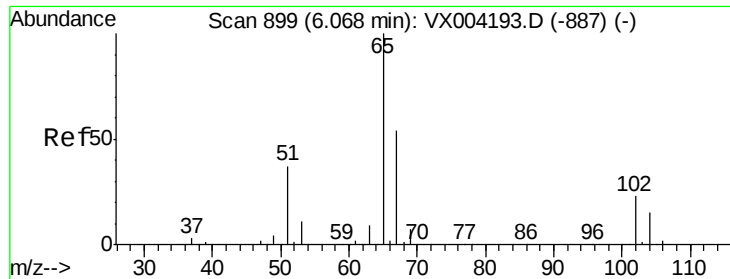
Ion Ratio Lower Upper

56 100

69 189.3 25.4 38.2#

84 175.8 71.4 107.2#

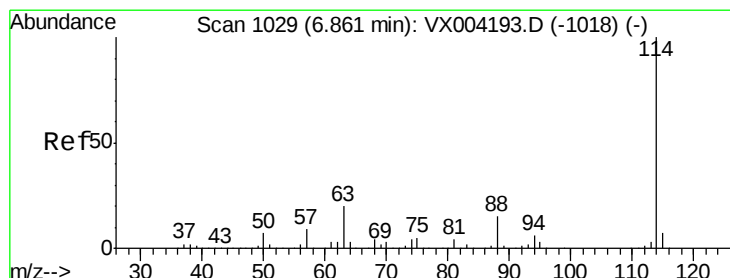
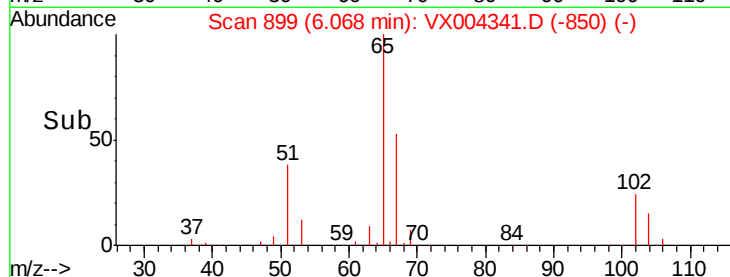
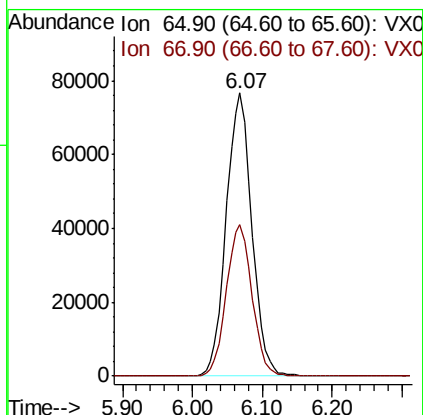
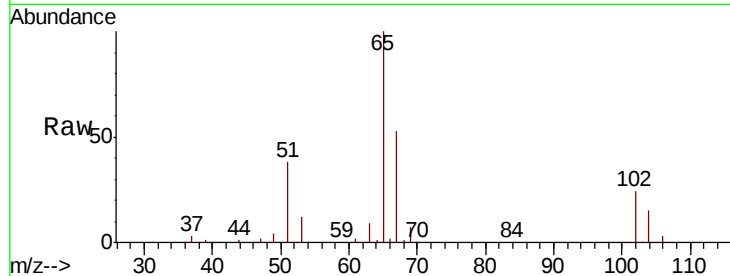




#33
 1,2-Dichloroethane-d4
 Concen: 54.02 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

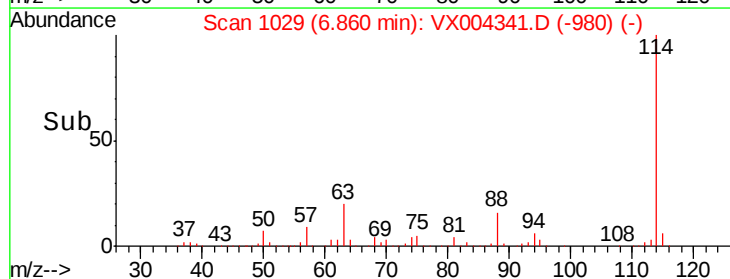
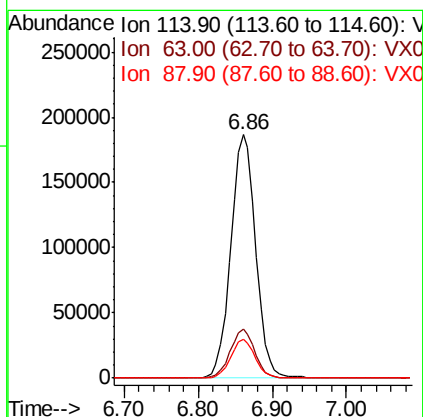
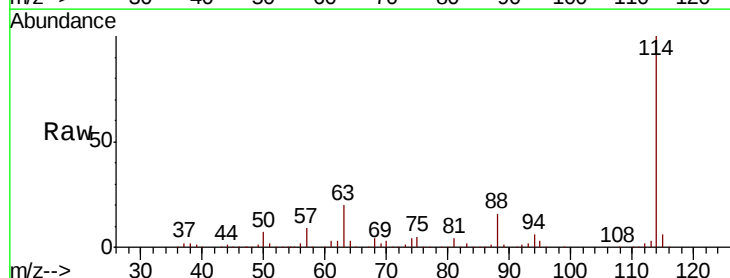
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0904MBL01

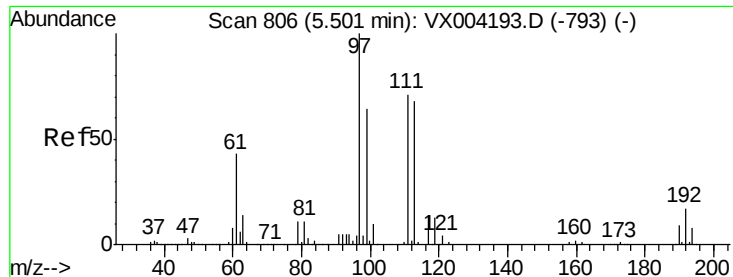
Tot Ion: 65 Resp: 195023
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

Tgt Ion: 114 Resp: 436386
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.9 0.0 30.4

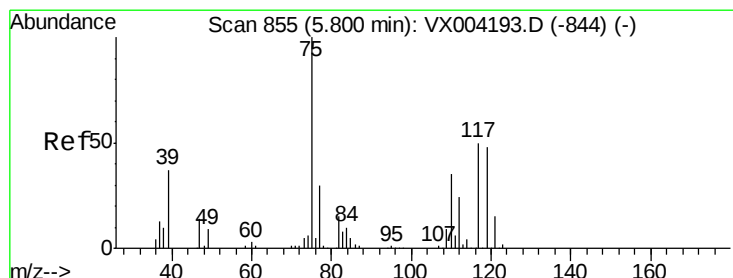
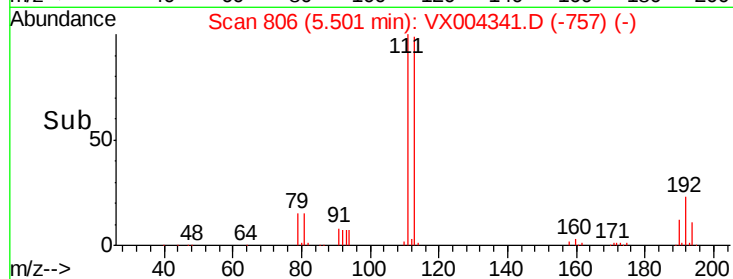
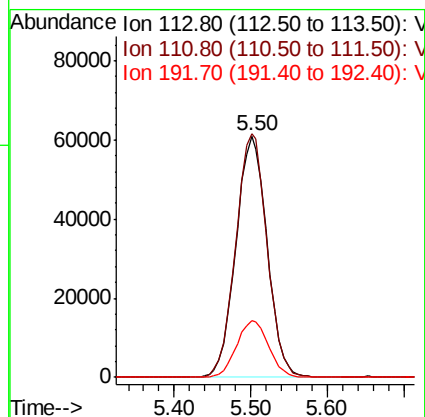
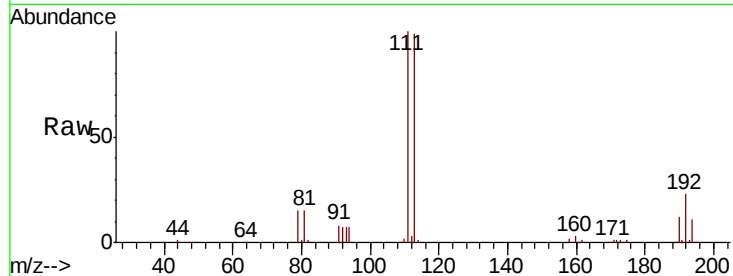




#35
 Dibromofluoromethane
 Concen: 52.98 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

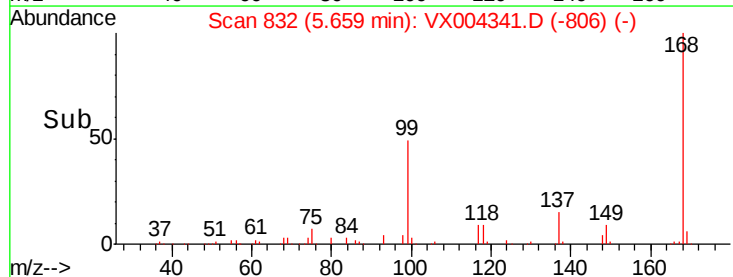
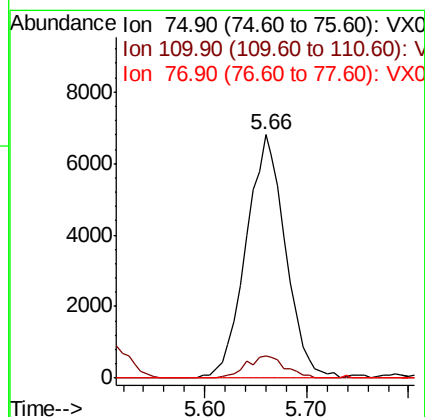
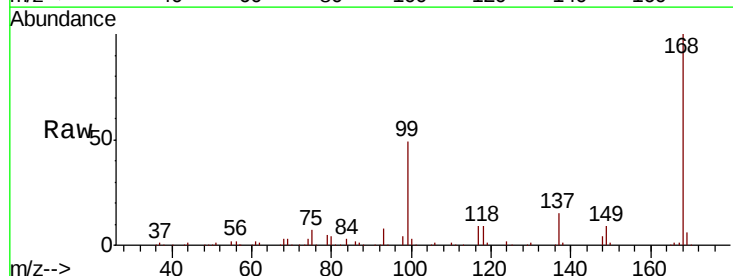
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0904MBL01

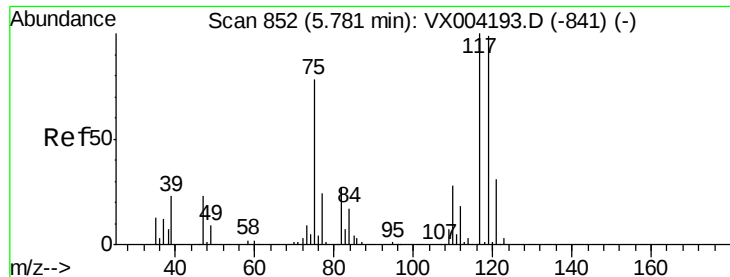
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	24.0	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0904MBL01

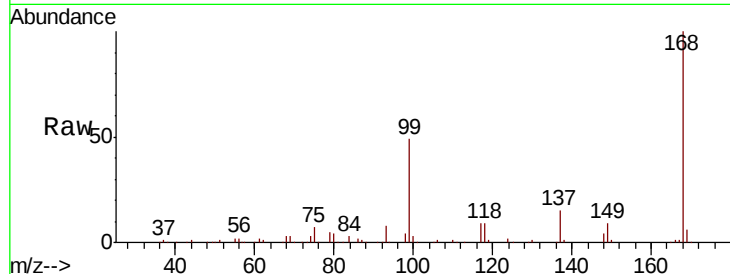
Tot Ion:117 Resp: 24436

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

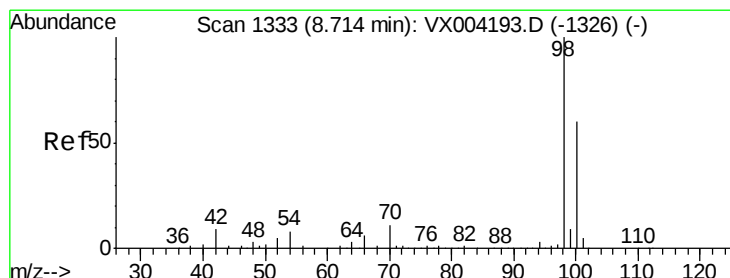
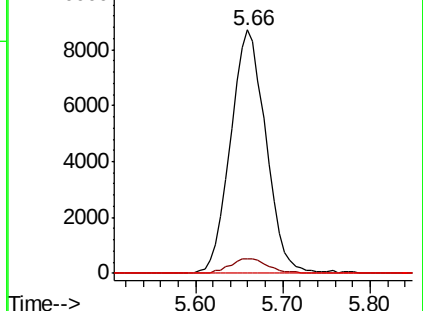
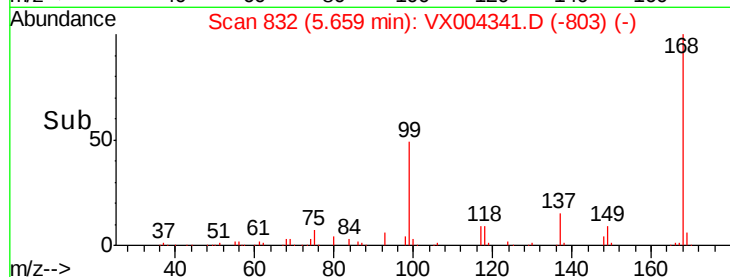
121 0.0 24.9 37.3#



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: 51.10 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004341.D

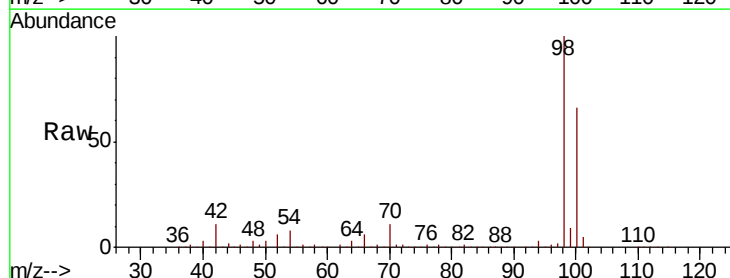
Acq: 04 Sep 2018 12:38

Tgt Ion: 98 Resp: 626187

Ion Ratio Lower Upper

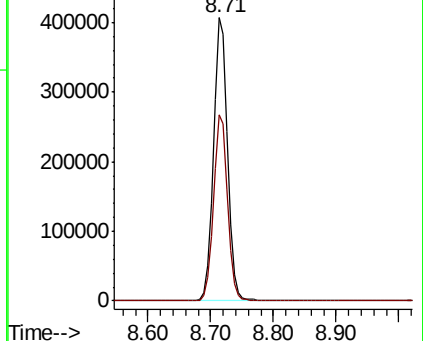
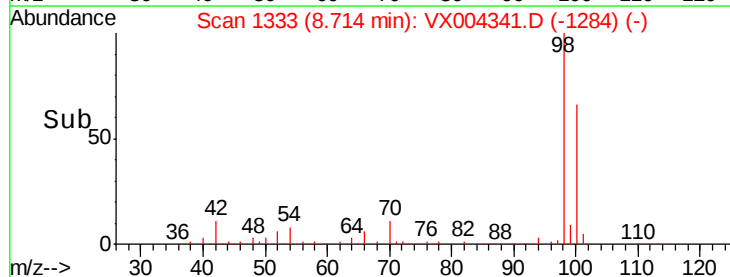
98 100

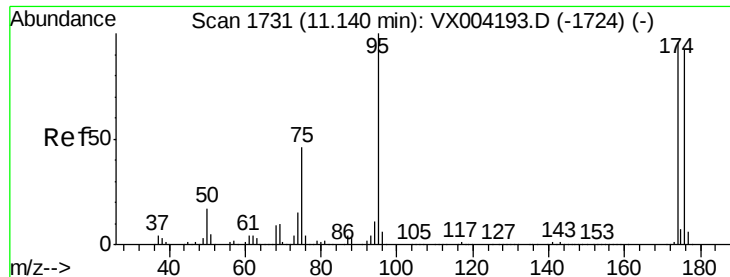
100 65.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

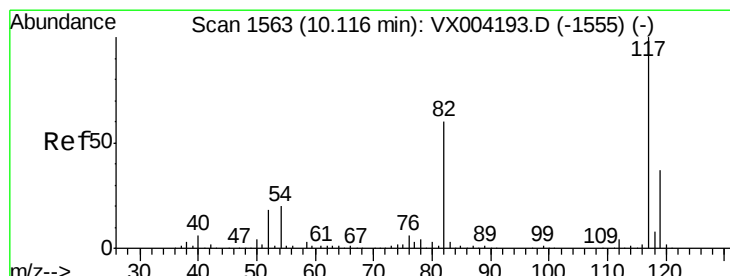
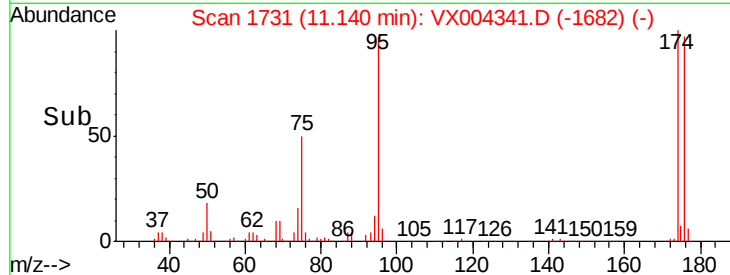
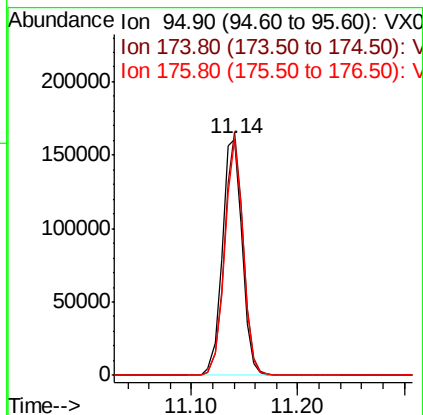
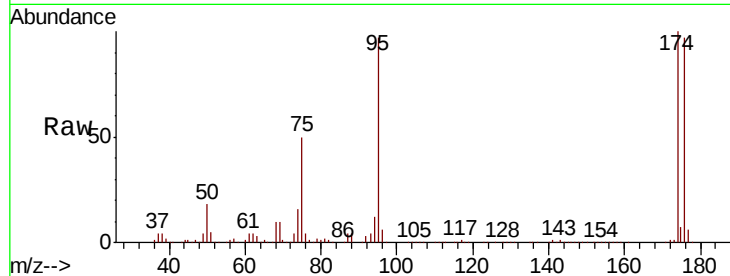




#62
 4-Bromofluorobenzene
 Concen: 45.99 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

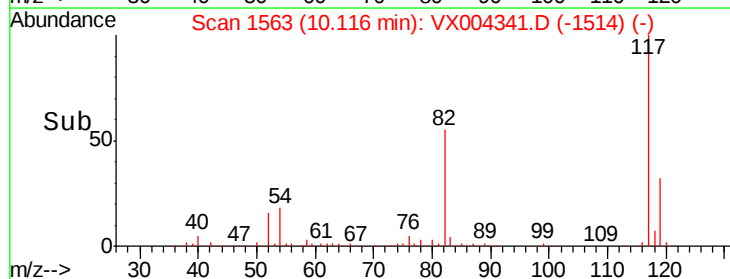
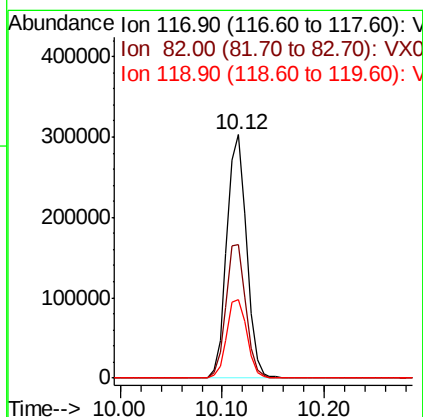
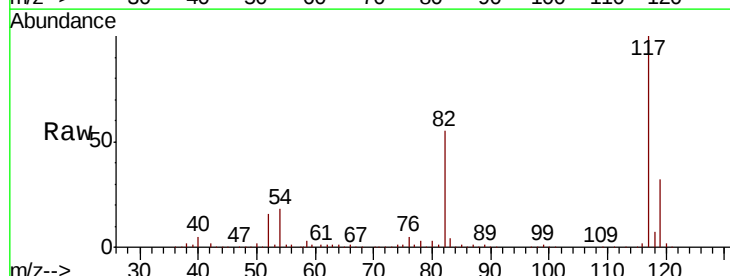
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0904MBL01

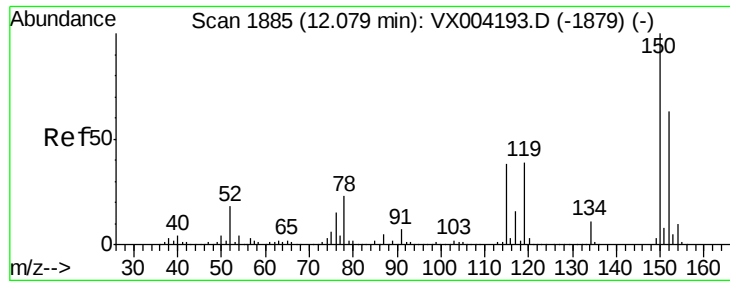
Tot Ion: 95 Resp: 210285
 Ion Ratio Lower Upper
 95 100
 174 96.3 0.0 185.2
 176 92.8 0.0 178.6



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX004341.D
 Acq: 04 Sep 2018 12:38

Tgt Ion: 117 Resp: 405876
 Ion Ratio Lower Upper
 117 100
 82 55.0 47.8 71.6
 119 32.2 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0904MBL01

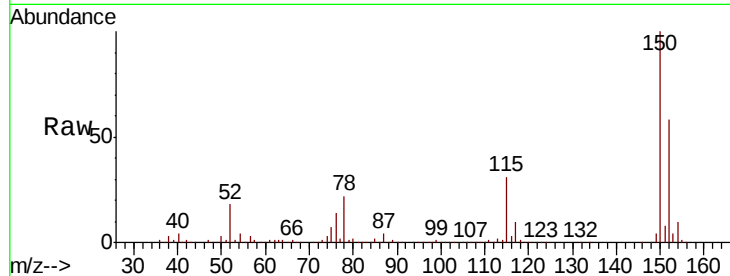
Tot Ion:152 Resp: 222028

Ion Ratio Lower Upper

152 100

115 53.6 39.0 117.0

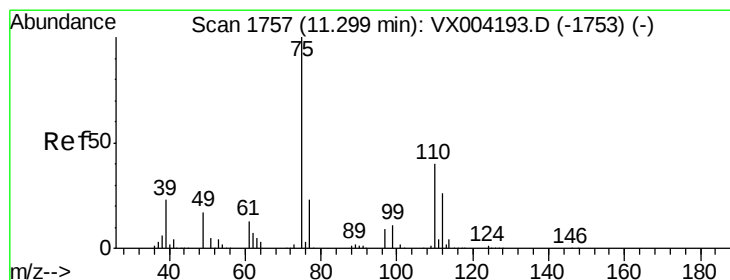
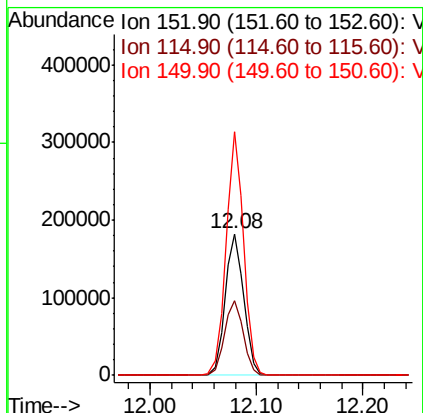
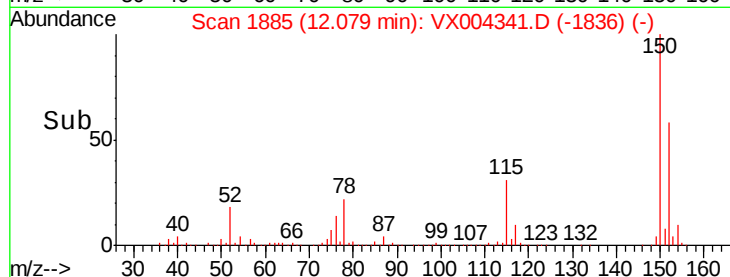
150 162.5 0.0 351.0



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: 22.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004341.D

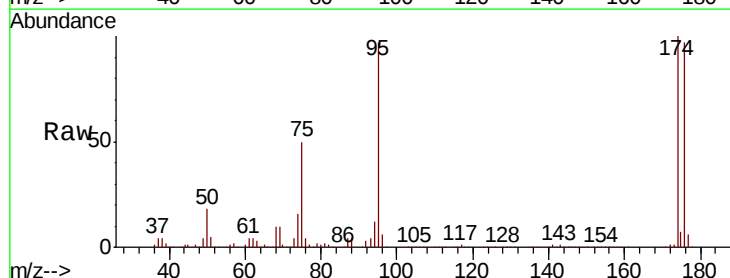
Acq: 04 Sep 2018 12:38

Tgt Ion: 75 Resp: 103624

Ion Ratio Lower Upper

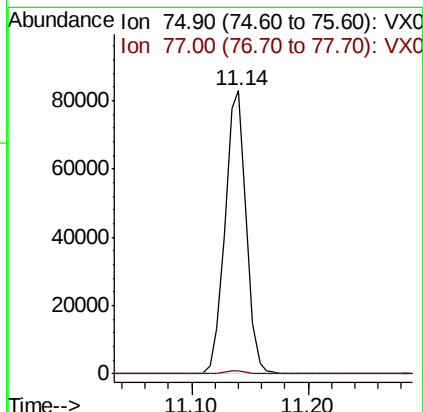
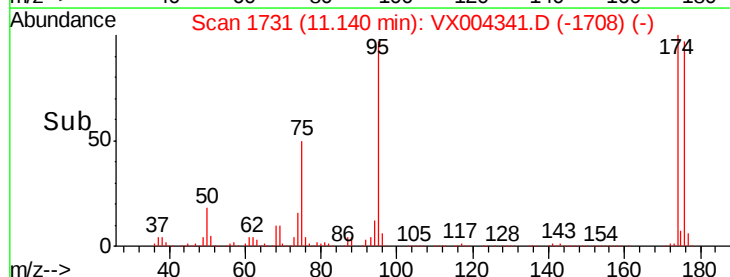
75 100

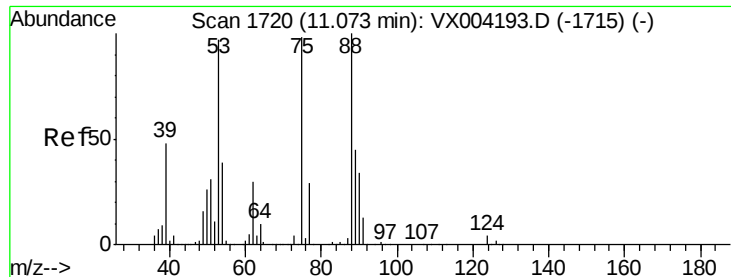
77 1.2 20.2 60.6#



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: 74.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004341.D

Acq: 04 Sep 2018 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0904MBL01

Tot Ion: 75 Resp: 103624

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

