

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009893.D
 Acq On : 24 May 2019 17:44
 Operator : JC/SP
 Sample : K3032-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2019-1

Quant Time: May 25 00:15:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	174128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	279823	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250219	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	108223	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	119362	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	5.50	113	86405	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
50) Toluene-d8	8.71	98	355343	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.13	95	119720	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	

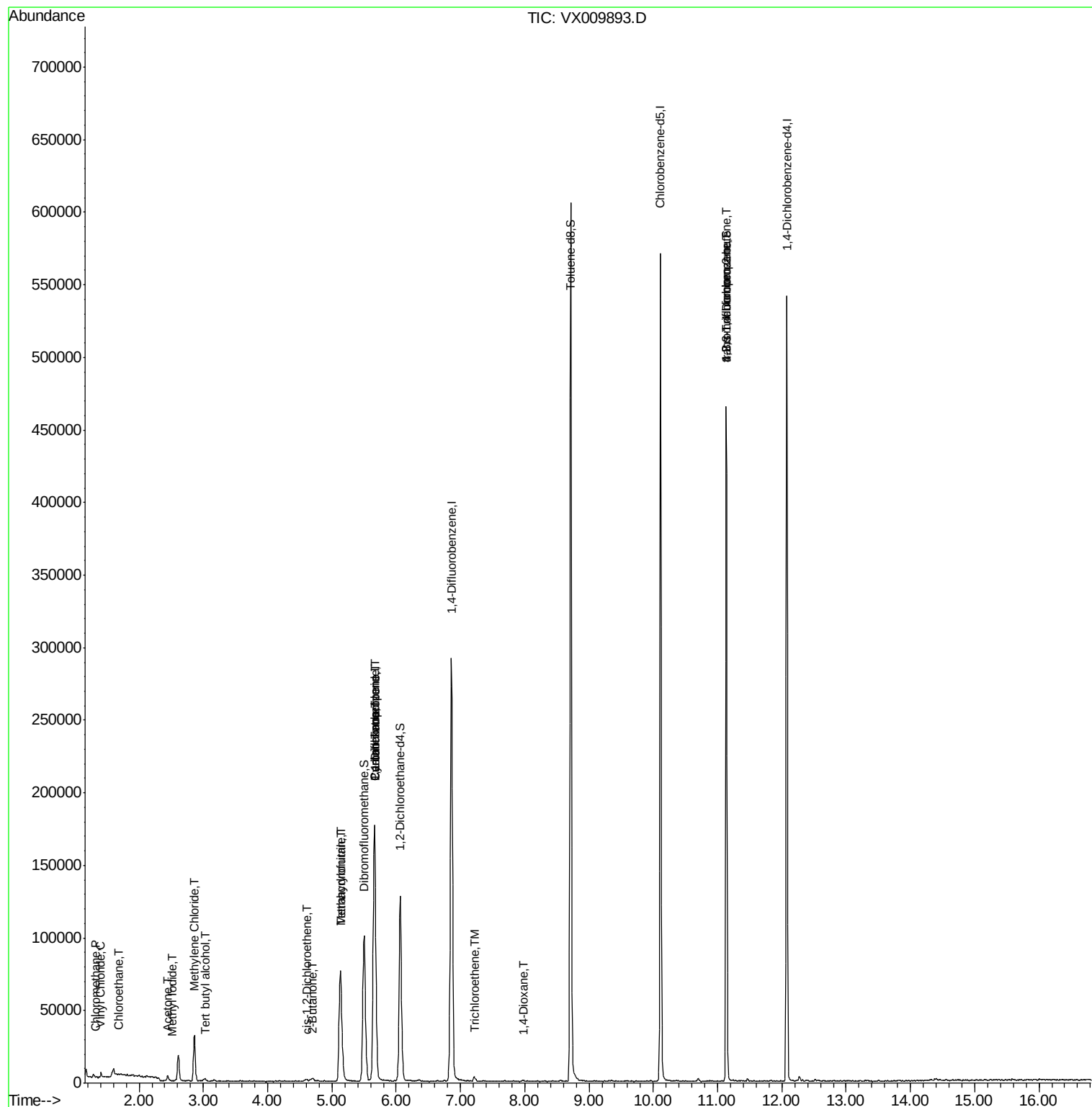
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	634	0.289	ug/l #	82
4) Vinyl Chloride	1.41	62	2170	1.016	ug/l #	89
6) Chloroethane	1.69	64	302	0.220	ug/l #	44
10) Methyl Iodide	2.52	142	20	4.603	ug/l #	42
11) Tert butyl alcohol	3.03	59	1340	2.435	ug/l #	82
16) Acetone	2.45	43	4320	3.385	ug/l	100
20) Methylene Chloride	2.85	84	13608	6.585	ug/l	95
25) 2-Butanone	4.70	43	1164	0.587	ug/l	100
27) cis-1,2-Dichloroethene	4.61	96	725	0.343	ug/l	82
28) Bromochloromethane	4.99	49	49	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	79679	62.427	ug/l	96
31) Cyclohexane	5.66	56	4390	1.249	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14110	5.426	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16460	6.967	ug/l #	15
41) Methacrylonitrile	5.13	41	44245	20.515	ug/l #	49
44) Trichloroethene	7.21	130	1163	0.598	ug/l	91
49) 1,4-Dioxane	7.98	88	41	0.703	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	62093	24.734	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62093	63.287	ug/l #	10

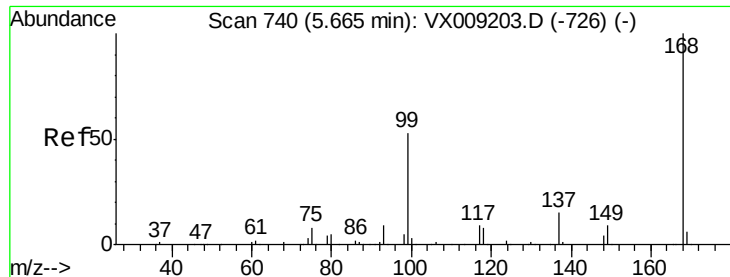
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

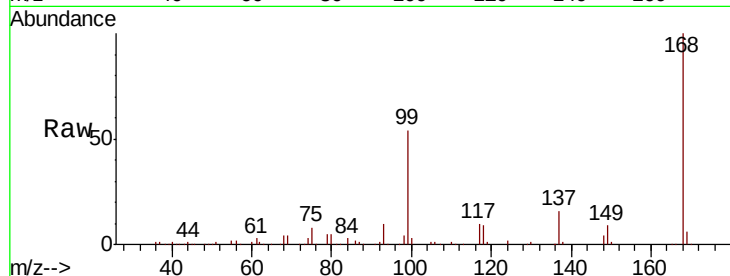
S32-ER-2019-1

Tot Ion:168 Resp: 174128

Ion Ratio Lower Upper

168 100

99 54.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

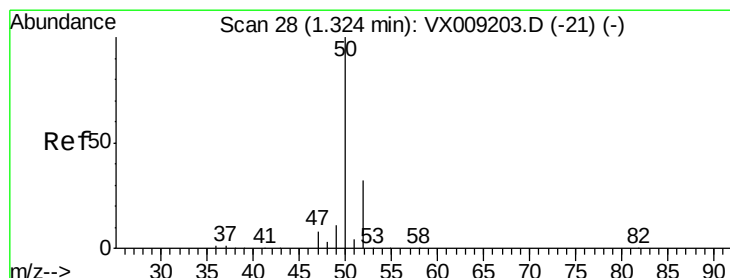
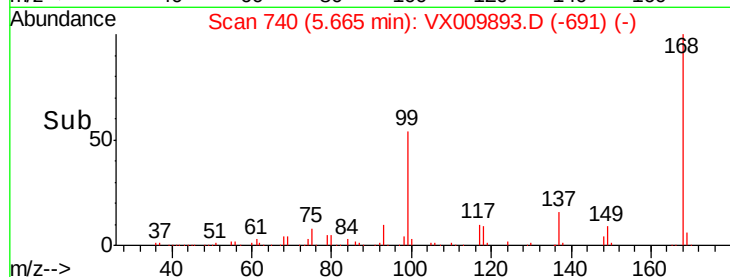
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.289 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009893.D

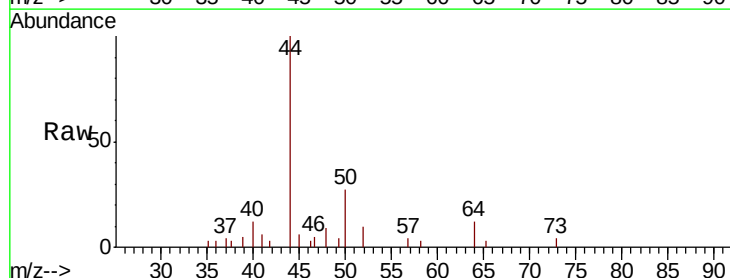
Acq: 24 May 2019 17:44

Tgt Ion: 50 Resp: 634

Ion Ratio Lower Upper

50 100

52 42.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

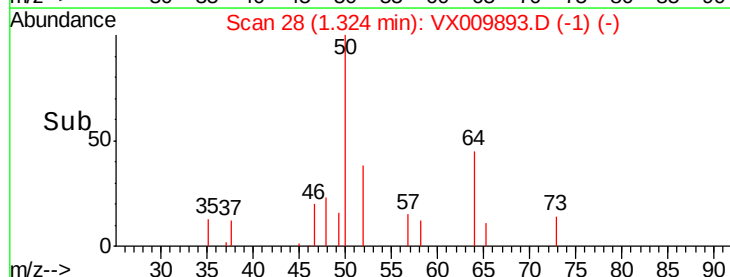
300

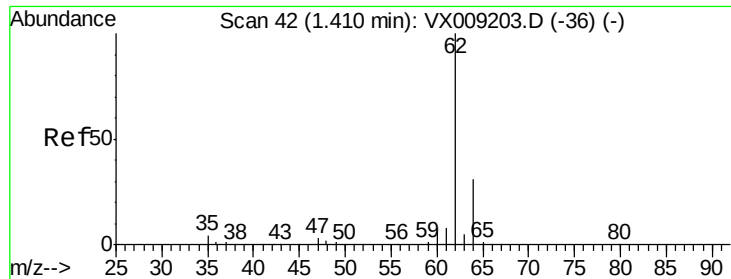
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.016 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampled :

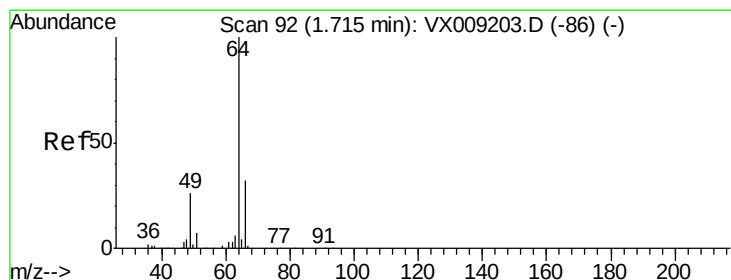
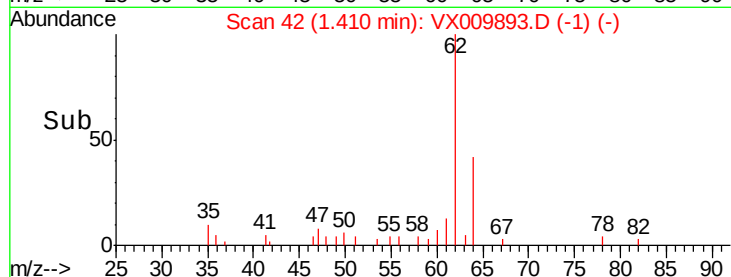
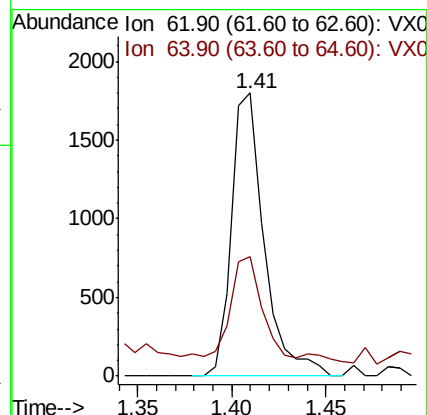
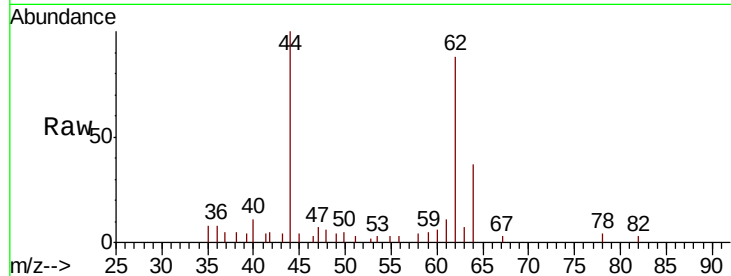
S32-ER-2019-1

Tot Ion: 62 Resp: 2170

Ion Ratio Lower Upper

62 100

64 36.9 24.6 36.8#



#6

Chloroethane

Concen: 0.220 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX009893.D

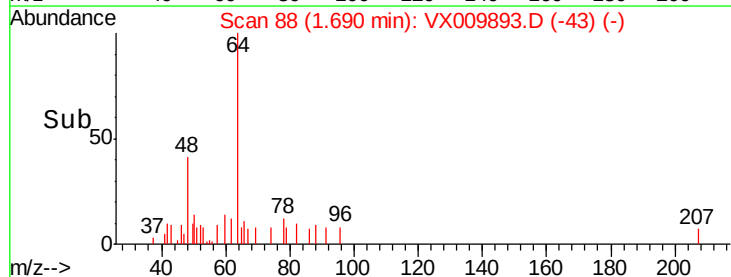
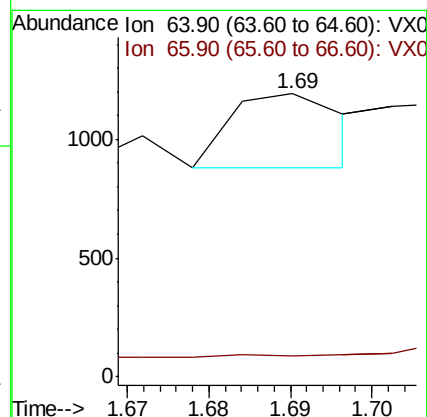
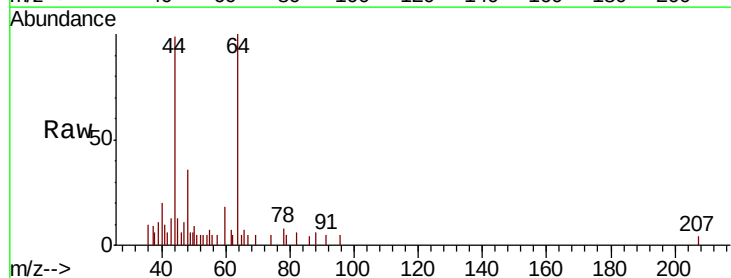
Acq: 24 May 2019 17:44

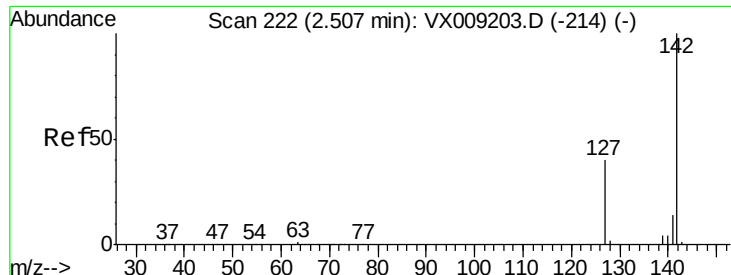
Tgt Ion: 64 Resp: 302

Ion Ratio Lower Upper

64 100

66 0.3 25.3 37.9#

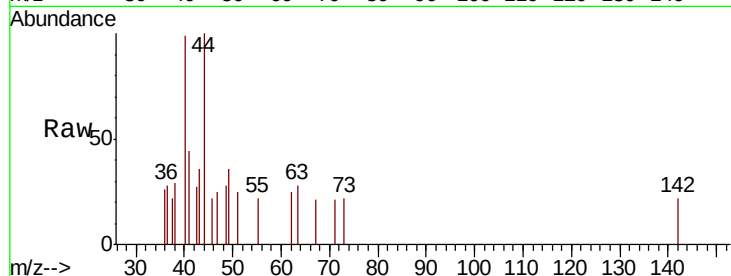




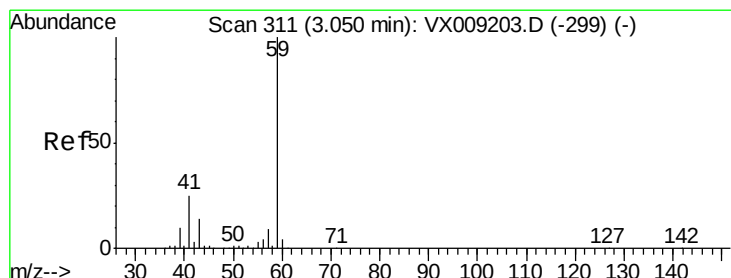
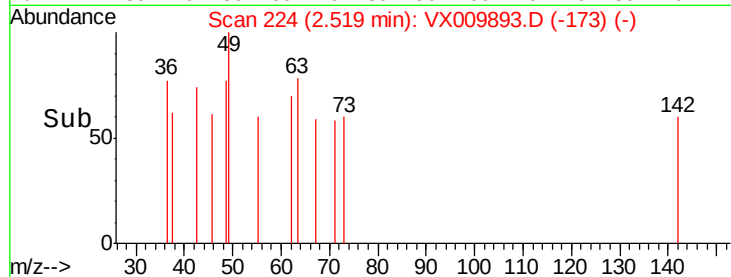
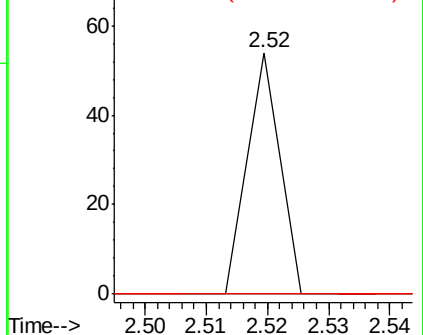
#10
Methyl Iodide
Concen: 4.603 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009893.D
Acq: 24 May 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2019-1

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

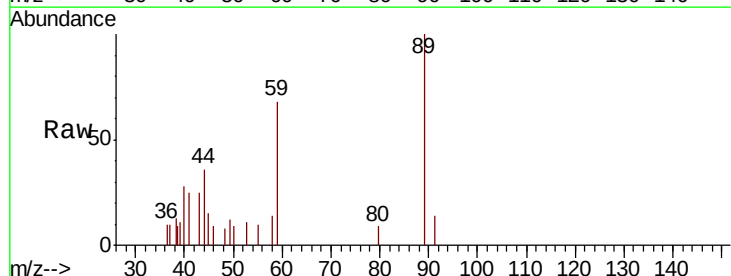


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

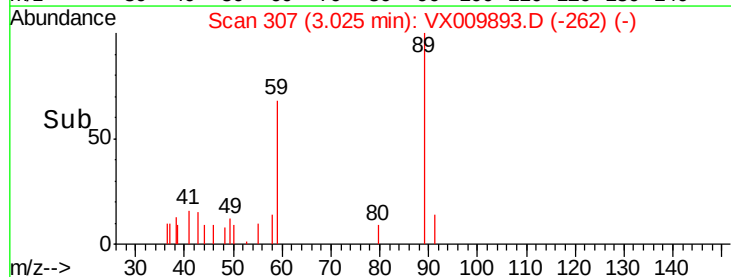
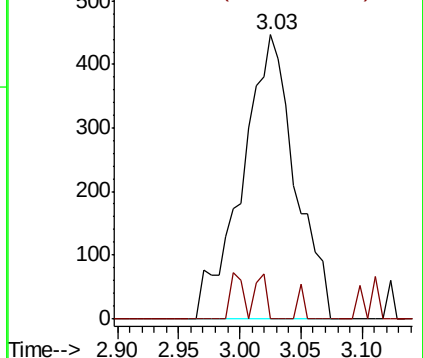


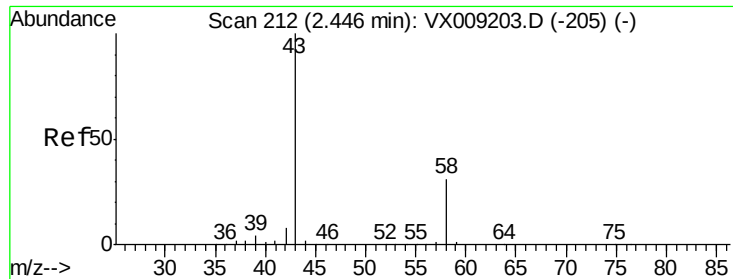
#11
Tert butyl alcohol
Concen: 2.435 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009893.D
Acq: 24 May 2019 17:44

Tgt Ion: 59 Resp: 1340
Ion Ratio Lower Upper
59 100
57 3.4 8.2 12.2#



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





#16

Acetone

Concen: 3.385 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

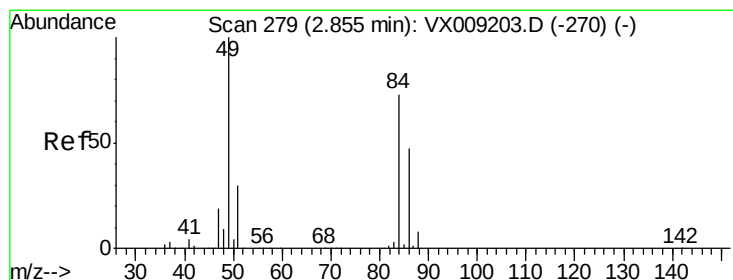
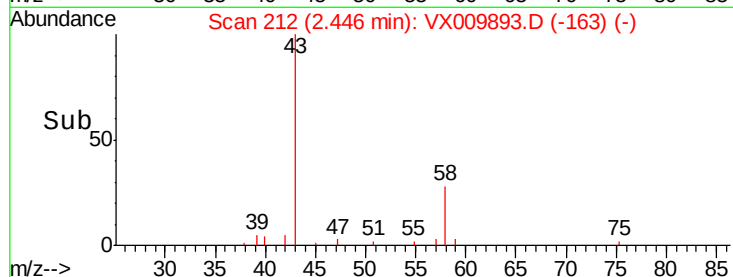
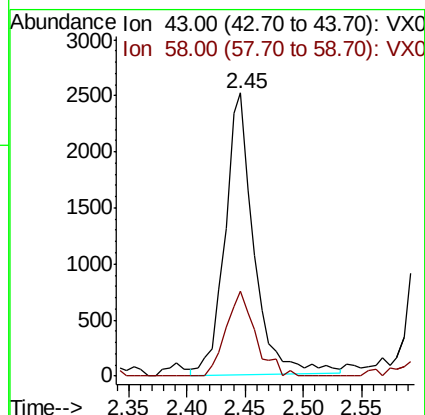
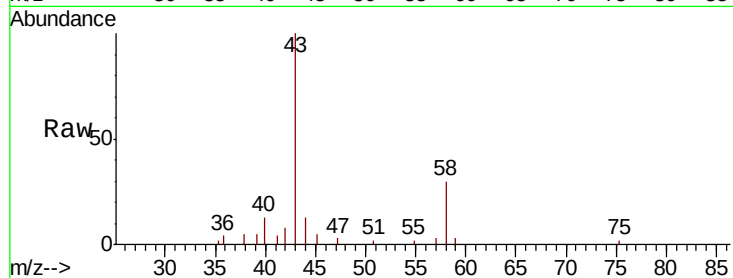
S32-ER-2019-1

Tot Ion: 43 Resp: 4320

Ion Ratio Lower Upper

43 100

58 30.9 24.9 37.3



#20

Methylene Chloride

Concen: 6.585 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Tgt Ion: 84 Resp: 13608

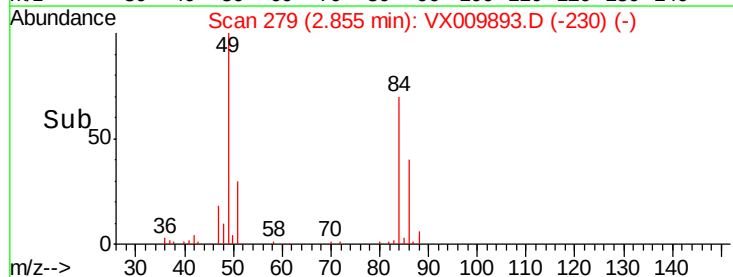
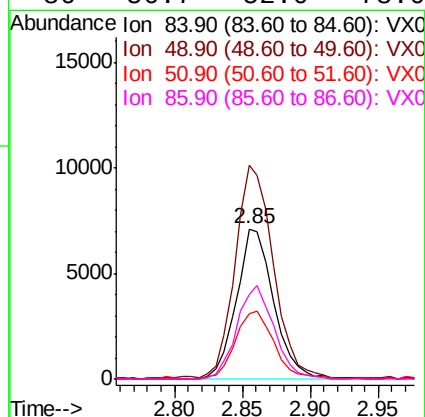
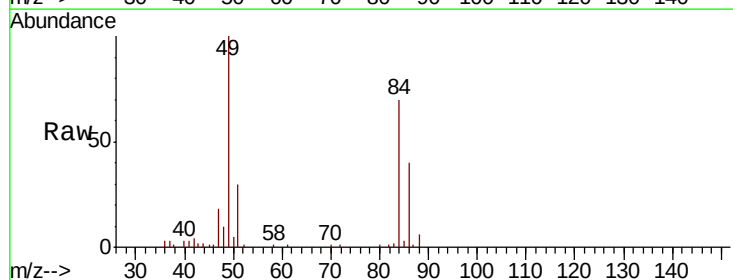
Ion Ratio Lower Upper

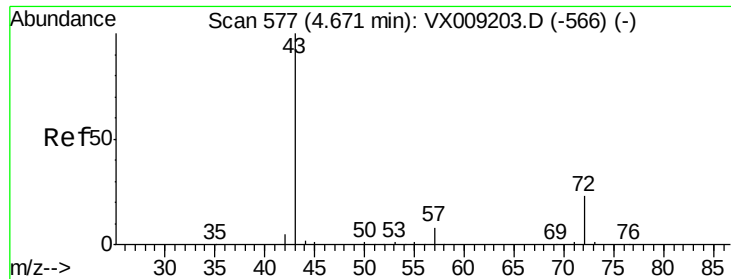
84 100

49 141.5 109.9 164.9

51 43.5 32.7 49.1

86 56.7 52.0 78.0





#25

2-Butanone

Concen: 0.587 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

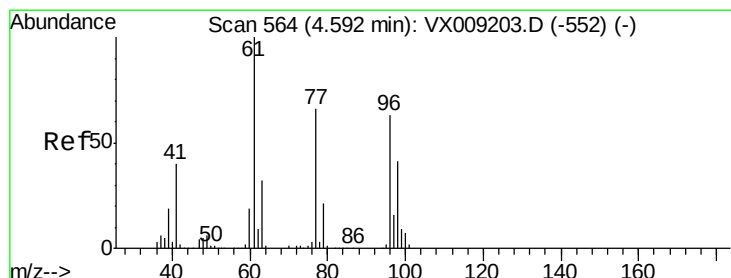
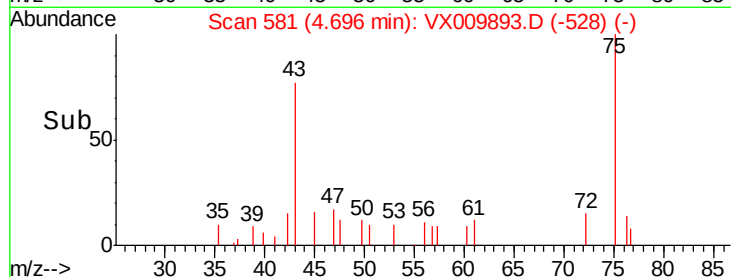
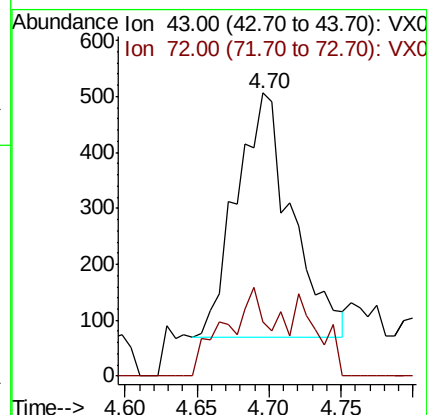
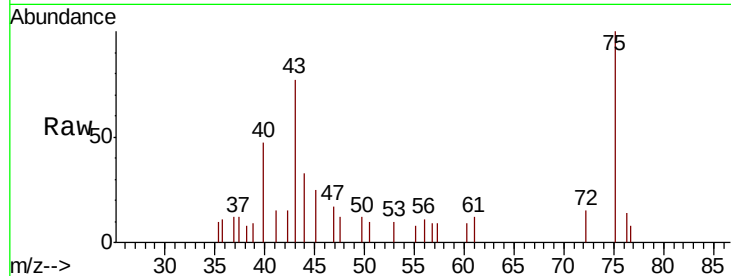
S32-ER-2019-1

Tot Ion: 43 Resp: 1164

Ion Ratio Lower Upper

43 100

72 22.5 18.2 27.2



#27

cis-1,2-Dichloroethene

Concen: 0.343 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.02 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

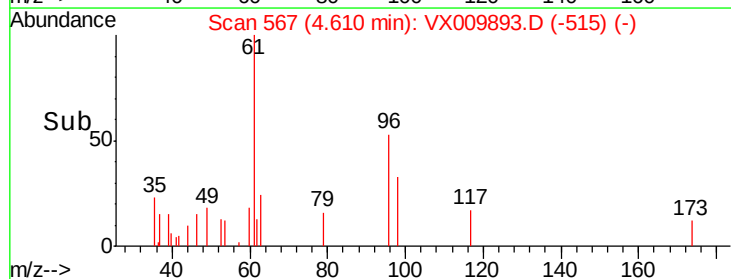
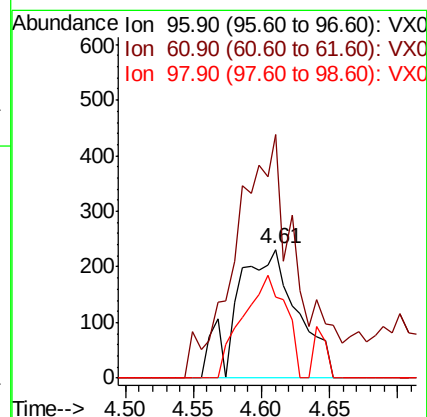
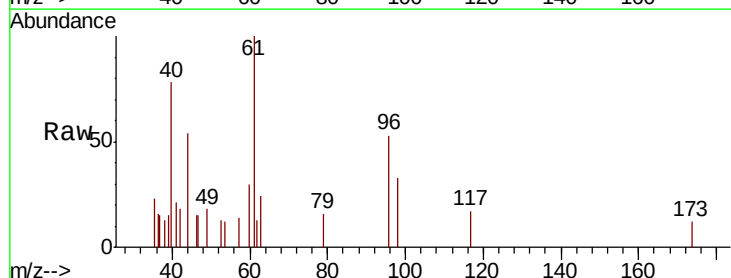
Tgt Ion: 96 Resp: 725

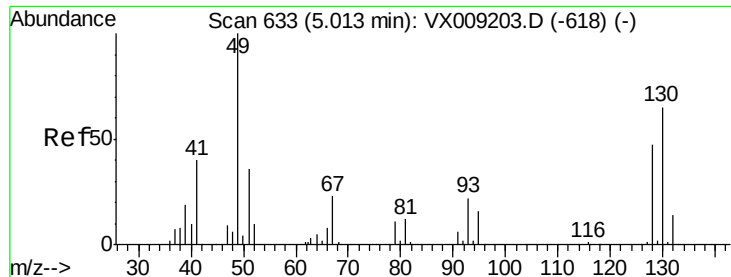
Ion Ratio Lower Upper

96 100

61 190.5 0.0 324.0

98 56.4 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

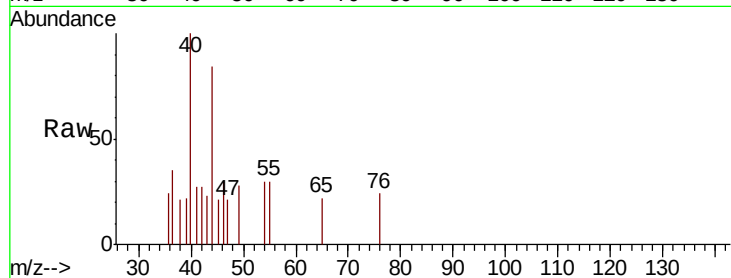
Tot Ion: 49 Resp: 49

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

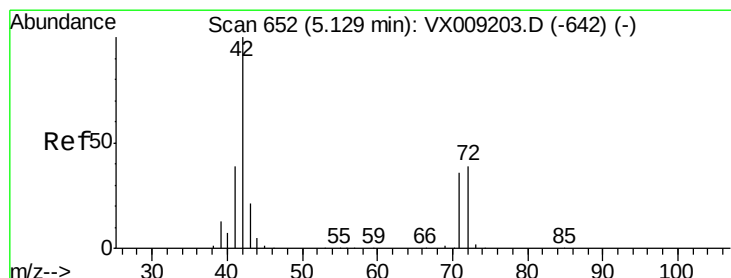
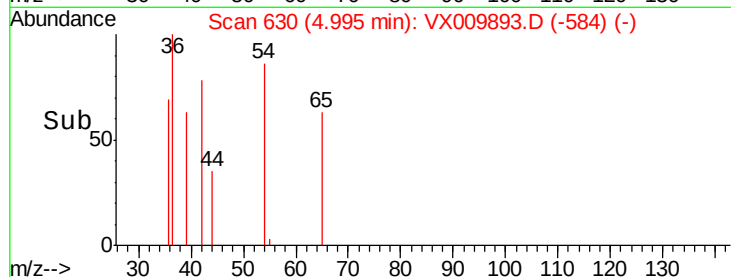
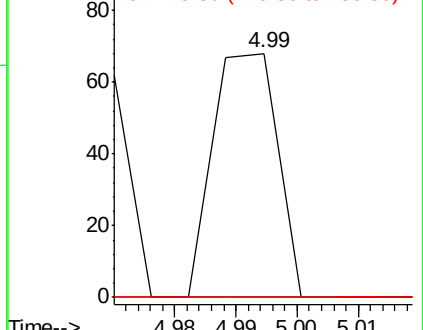
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 62.427 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

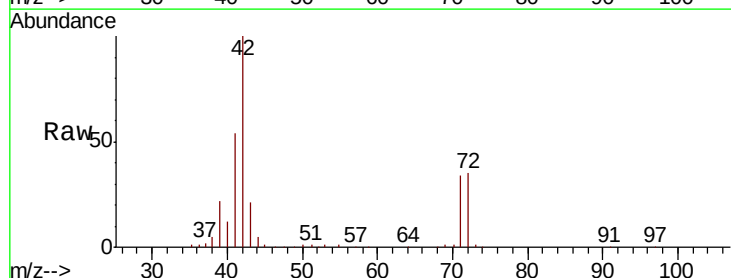
Tgt Ion: 42 Resp: 79679

Ion Ratio Lower Upper

42 100

72 35.2 30.4 45.6

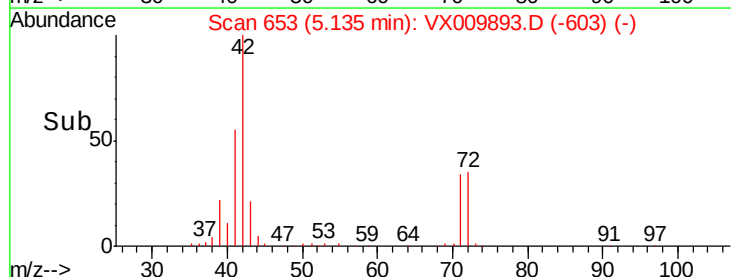
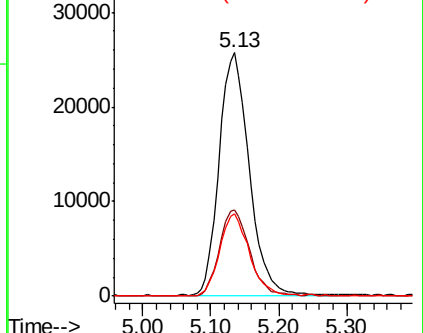
71 33.3 28.6 43.0

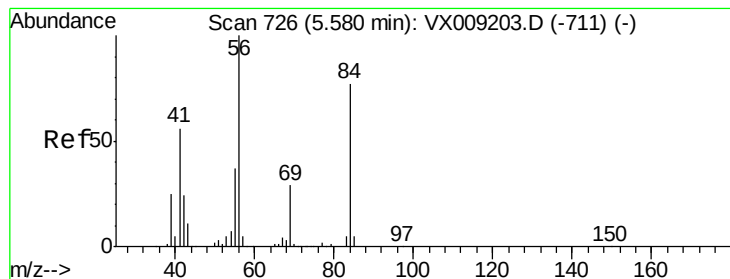


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.249 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

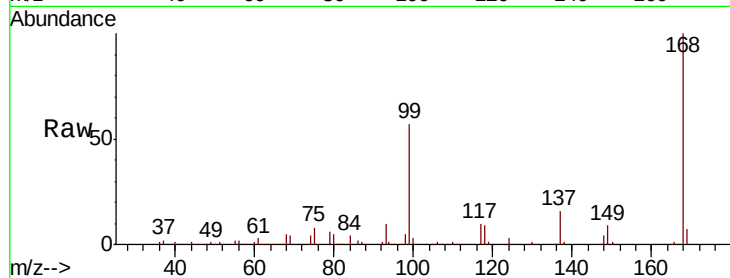
Tot Ion: 56 Resp: 4390

Ion Ratio Lower Upper

56 100

69 173.3 23.4 35.0#

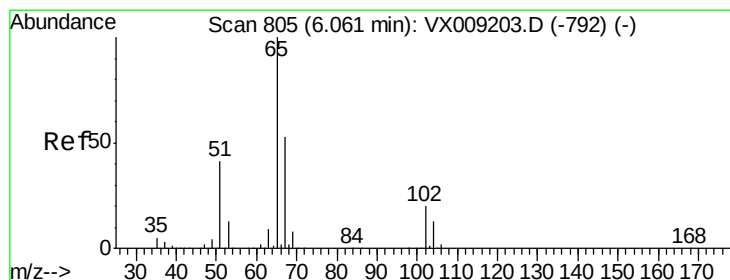
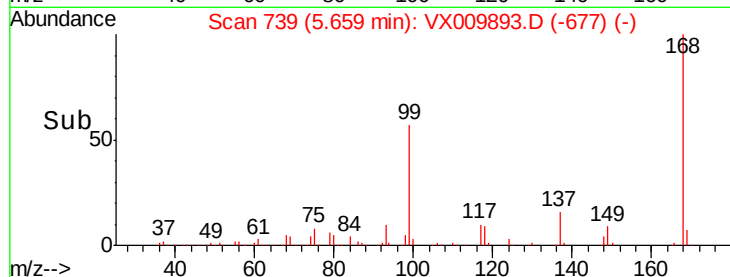
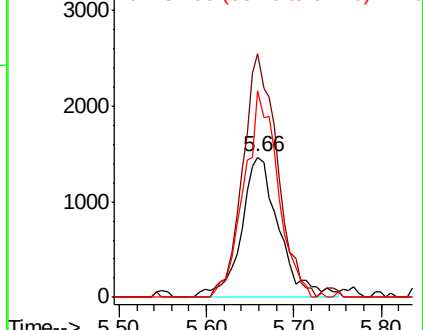
84 147.0 61.9 92.9#



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: 50.214 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009893.D

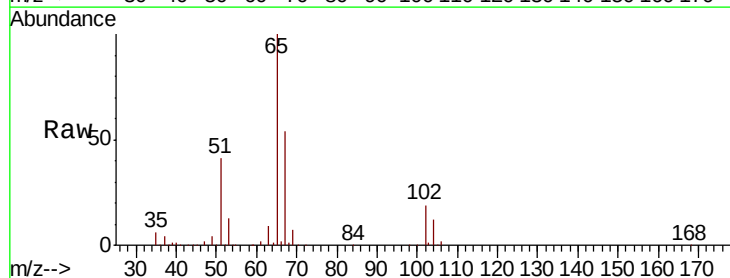
Acq: 24 May 2019 17:44

Tgt Ion: 65 Resp: 119362

Ion Ratio Lower Upper

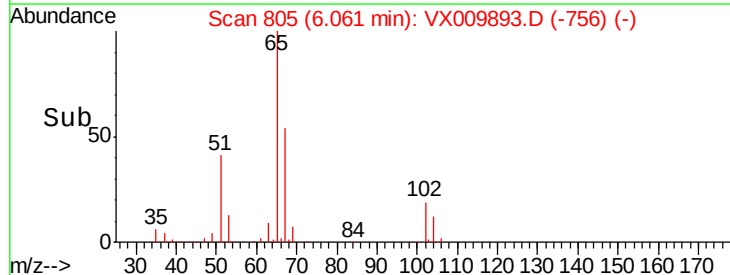
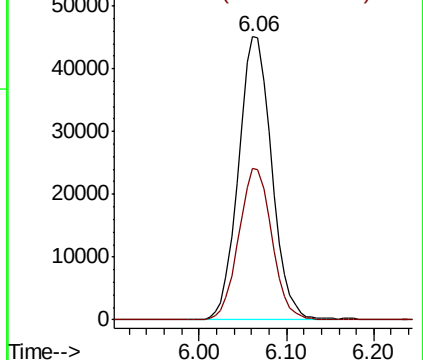
65 100

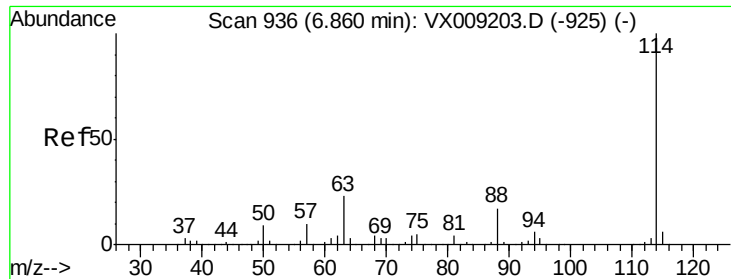
67 53.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

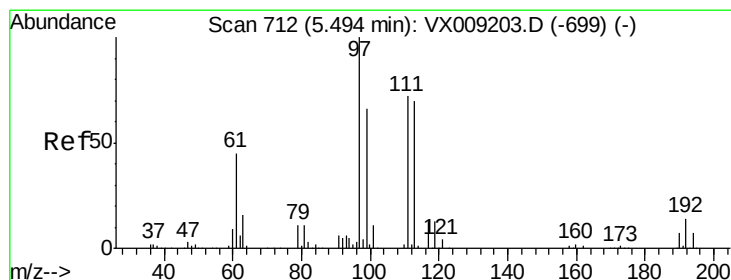
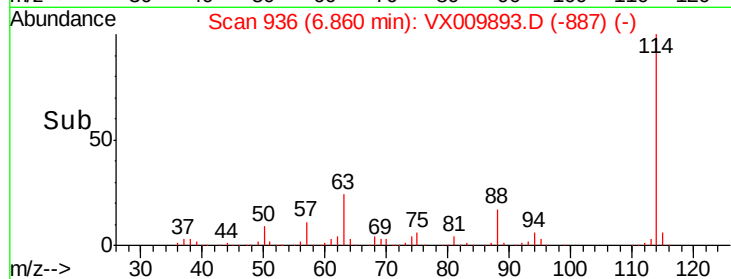
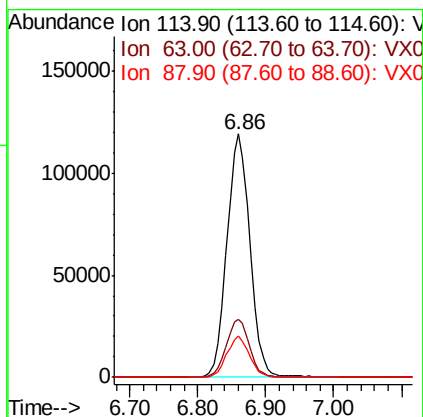
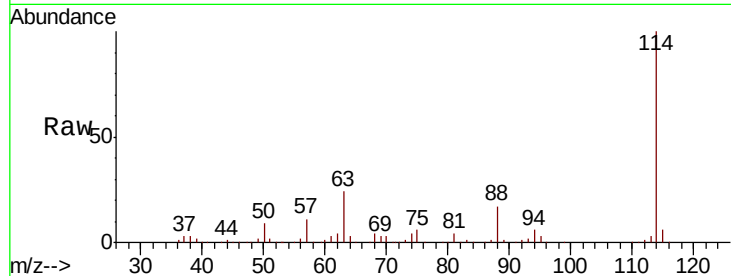




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009893.D
 Acq: 24 May 2019 17:44

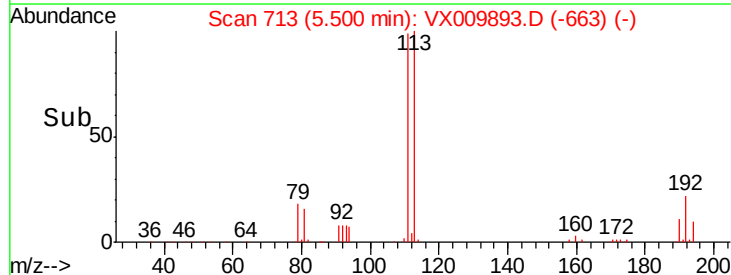
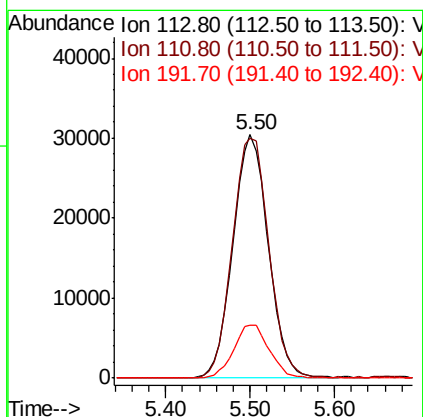
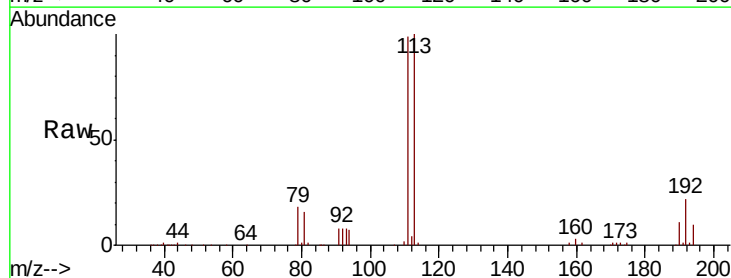
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2019-1

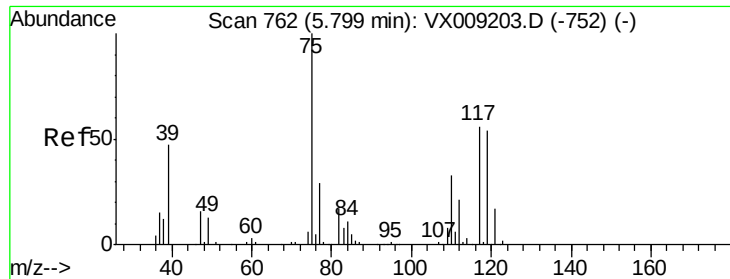
Tot Ion:114 Resp: 279823
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.6
 88 17.0 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 49.119 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009893.D
 Acq: 24 May 2019 17:44

Tgt Ion:113 Resp: 86405
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.8 124.2
 192 21.7 17.0 25.6

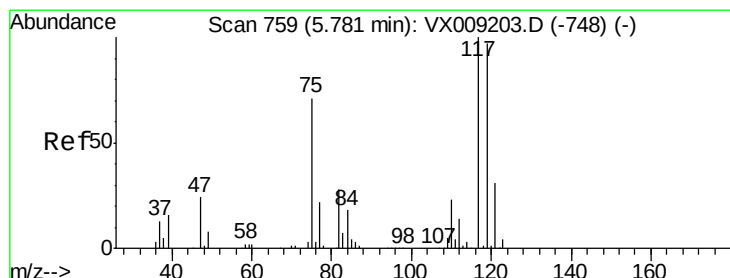
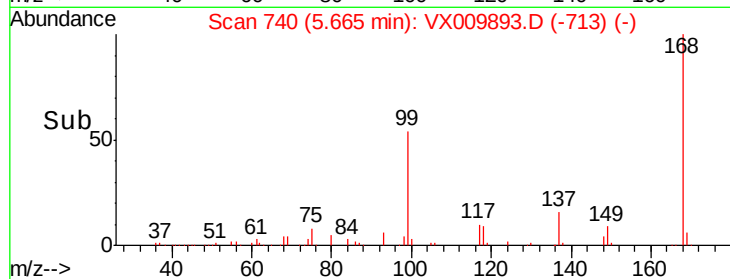
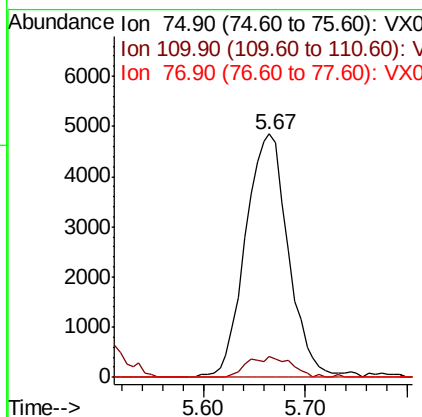
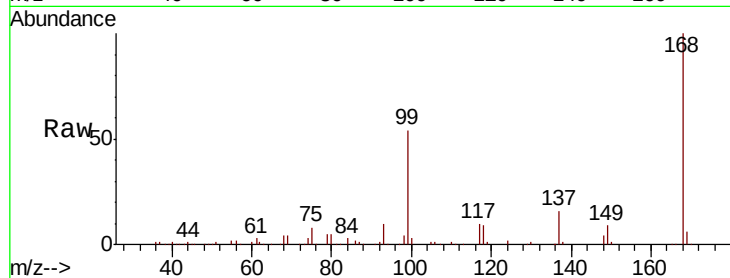




#36
 1,1-Dichloropropene
 Concen: 5.426 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009893.D
 Acq: 24 May 2019 17:44

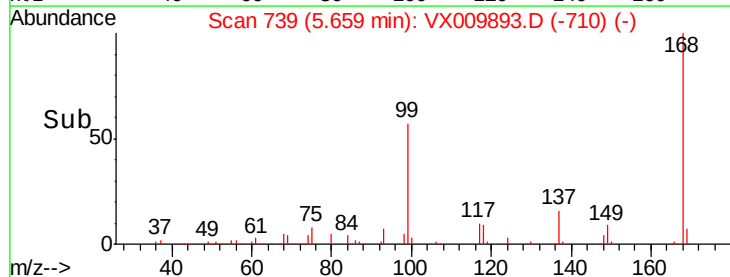
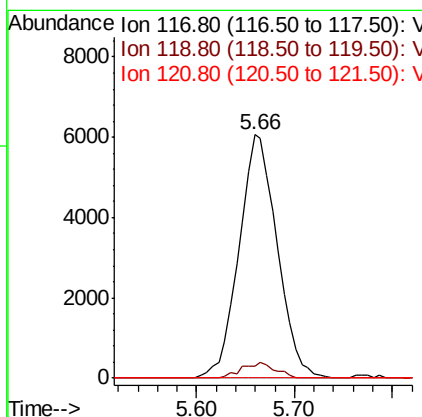
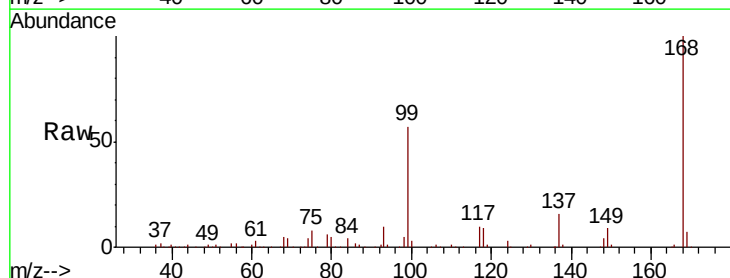
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2019-1

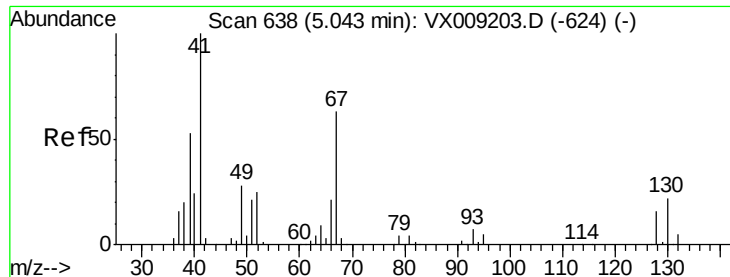
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.9	50.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.967 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009893.D
 Acq: 24 May 2019 17:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.5	116.3#
121	0.0	24.7	37.1#





#41

Methacrylonitrile

Concen: 20.515 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.09 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampled :

S32-ER-2019-1

Tot Ion: 41 Resp: 44245

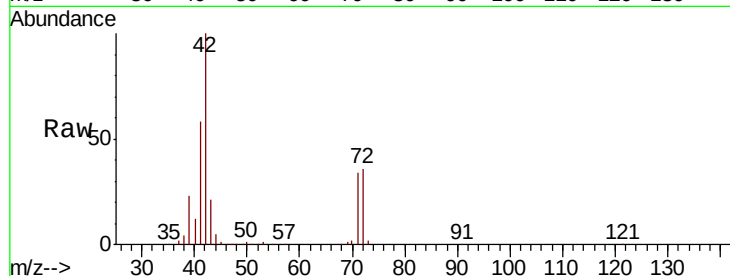
Ion Ratio Lower Upper

41 100

39 41.0 42.0 63.0#

67 0.0 49.8 74.8#

52 0.1 20.3 30.5#

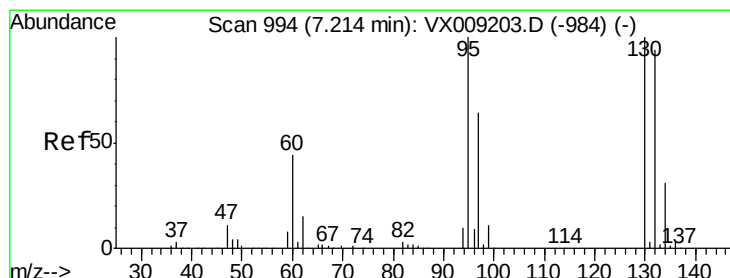
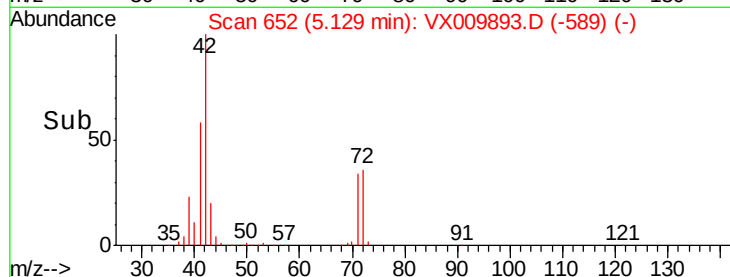
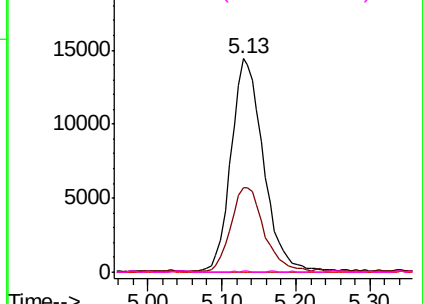


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#44

Trichloroethene

Concen: 0.598 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009893.D

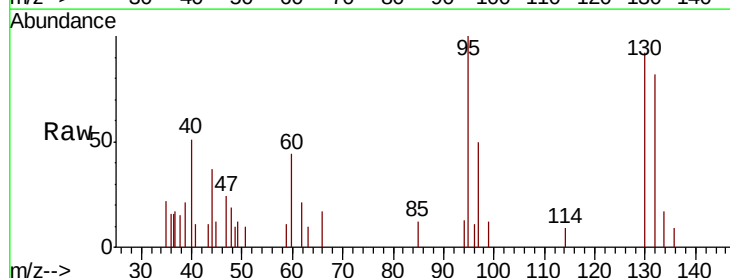
Acq: 24 May 2019 17:44

Tgt Ion:130 Resp: 1163

Ion Ratio Lower Upper

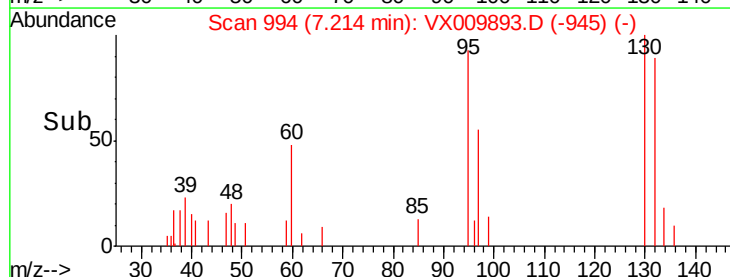
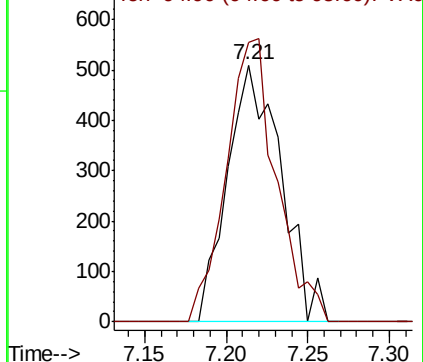
130 100

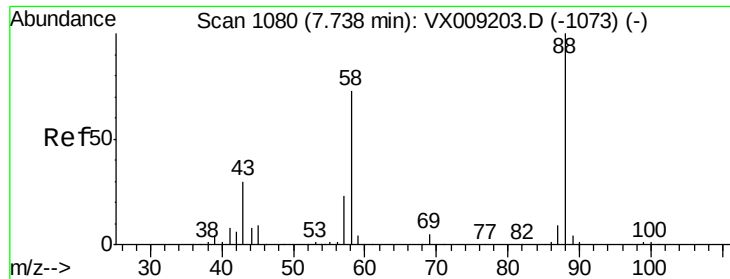
95 109.0 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

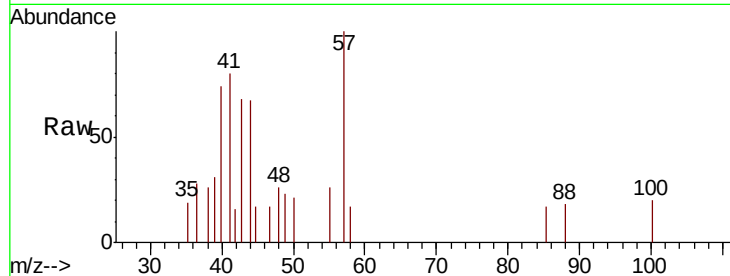




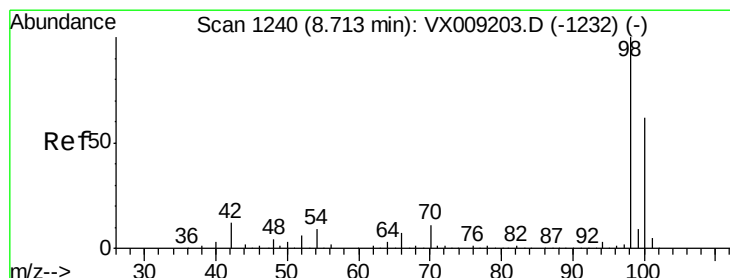
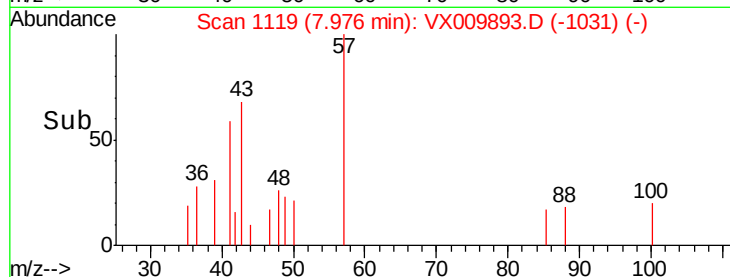
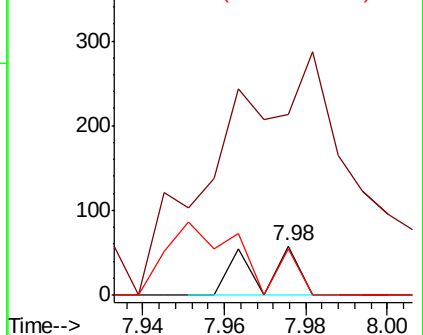
#49
1,4-Dioxane
Concen: 0.703 ug/l
RT: 7.98 min Scan# 1119
Delta R.T. 0.24 min
Lab File: VX009893.D
Acq: 24 May 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2019-1

Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 1582.9 28.6 42.8#
58 0.0 61.7 92.5#

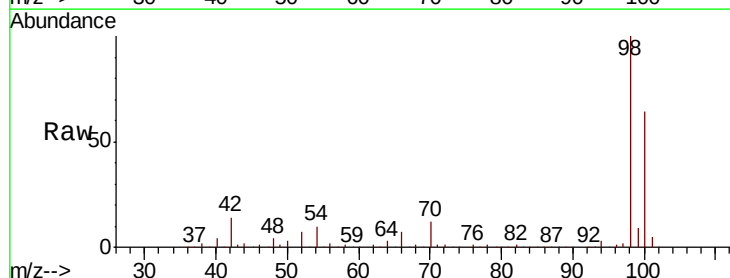


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

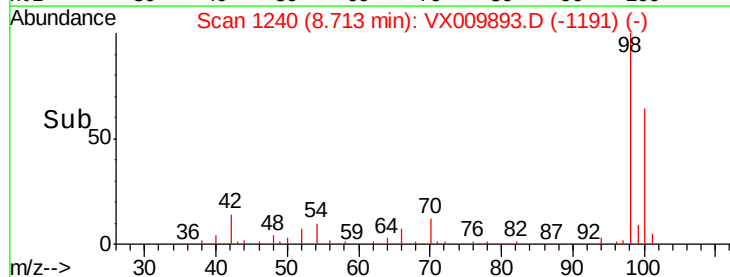
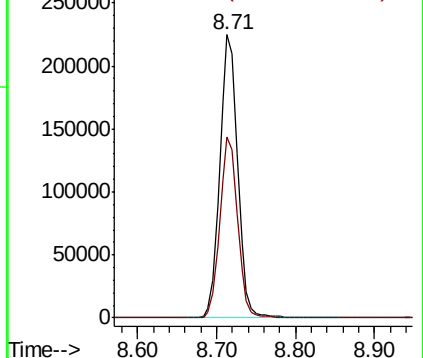


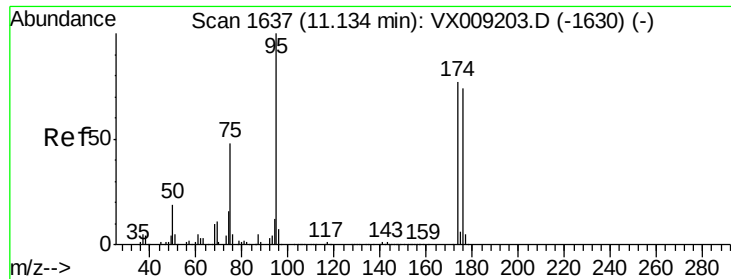
#50
Toluene-d8
Concen: 50.035 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009893.D
Acq: 24 May 2019 17:44

Tgt Ion: 98 Resp: 355343
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.393 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

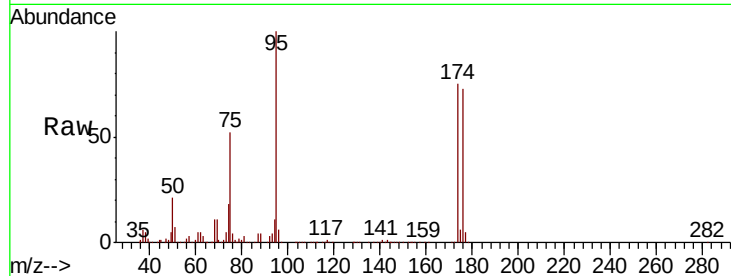
Tot Ion: 95 Resp: 119720

Ion Ratio Lower Upper

95 100

174 81.8 0.0 161.6

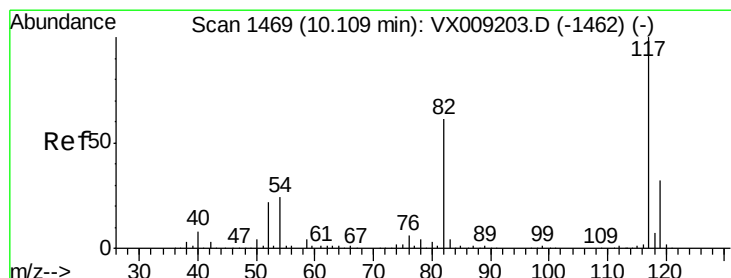
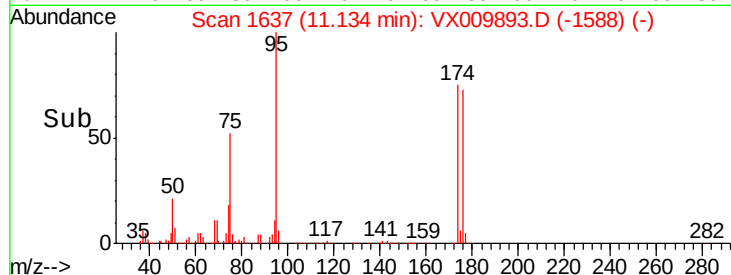
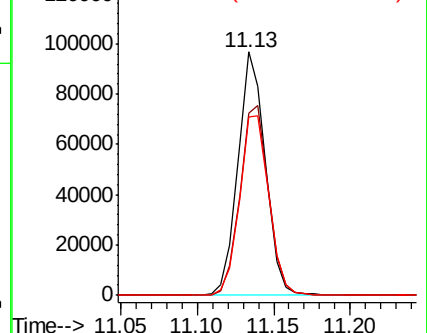
176 79.0 0.0 159.2



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

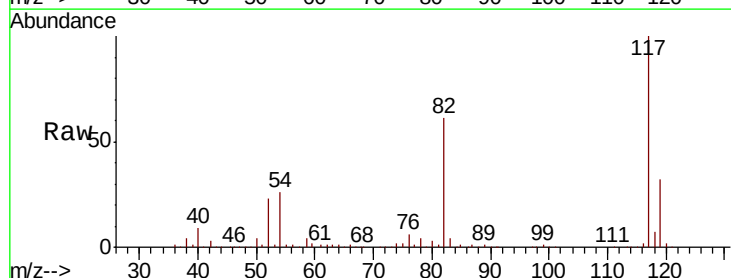
Tgt Ion: 117 Resp: 250219

Ion Ratio Lower Upper

117 100

82 60.9 48.8 73.2

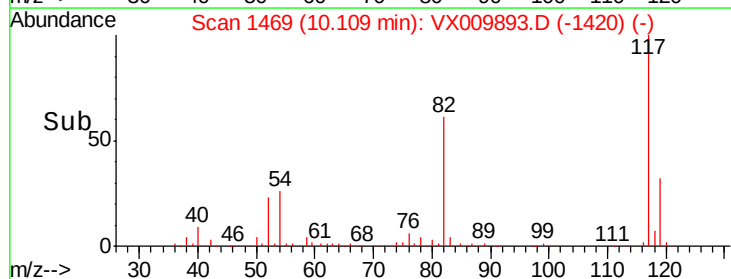
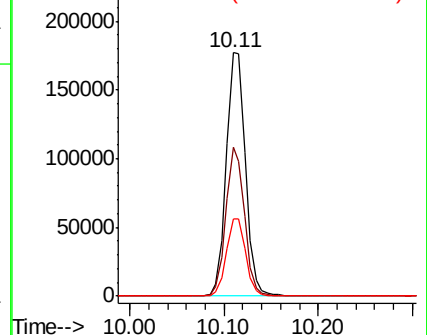
119 31.9 25.8 38.6

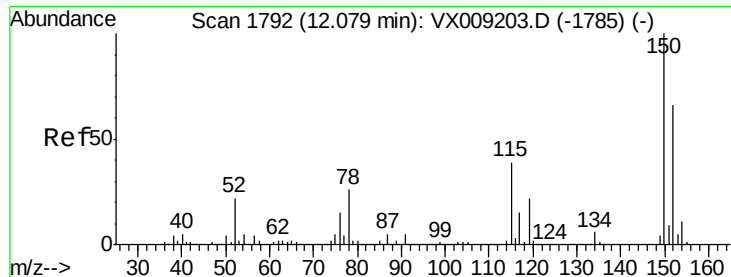


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

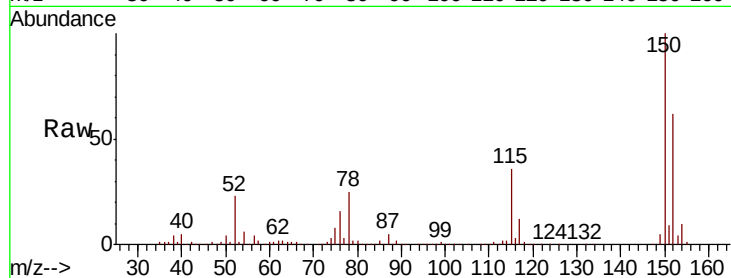
Tot Ion:152 Resp: 108223

Ion Ratio Lower Upper

152 100

115 59.5 41.2 123.6

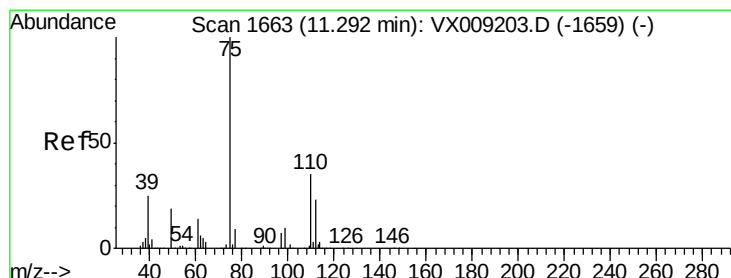
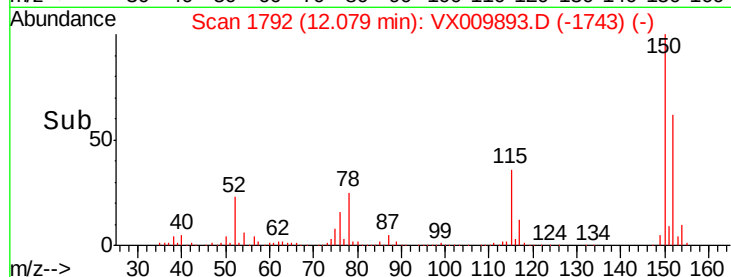
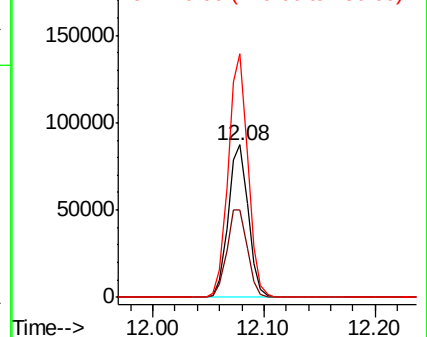
150 157.1 0.0 346.4



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: 24.734 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009893.D

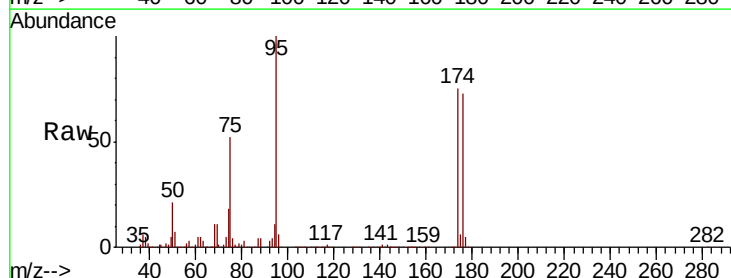
Acq: 24 May 2019 17:44

Tgt Ion: 75 Resp: 62093

Ion Ratio Lower Upper

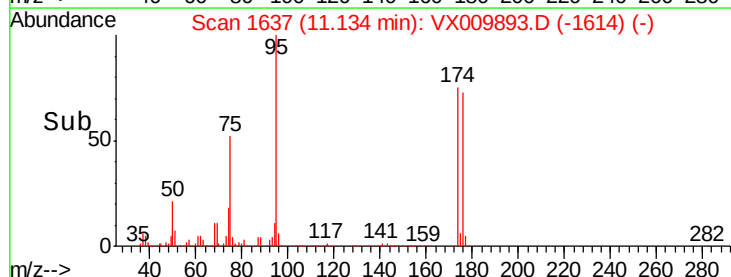
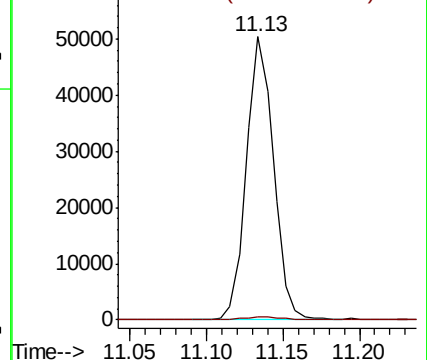
75 100

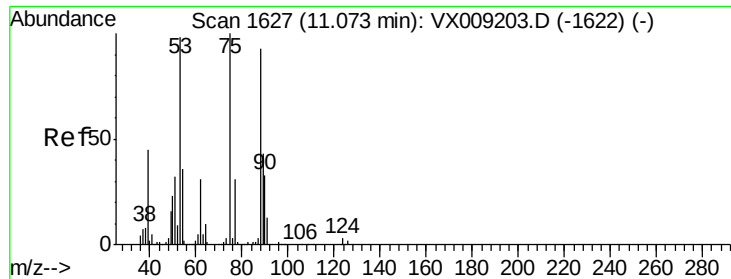
77 1.4 22.1 66.1#



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: 63.287 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009893.D

Acq: 24 May 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

Tot Ion: 75 Resp: 62093

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

