

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009892.D
 Acq On : 24 May 2019 17:21
 Operator : JC/SP
 Sample : K3032-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0654

Quant Time: May 25 00:15:19 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

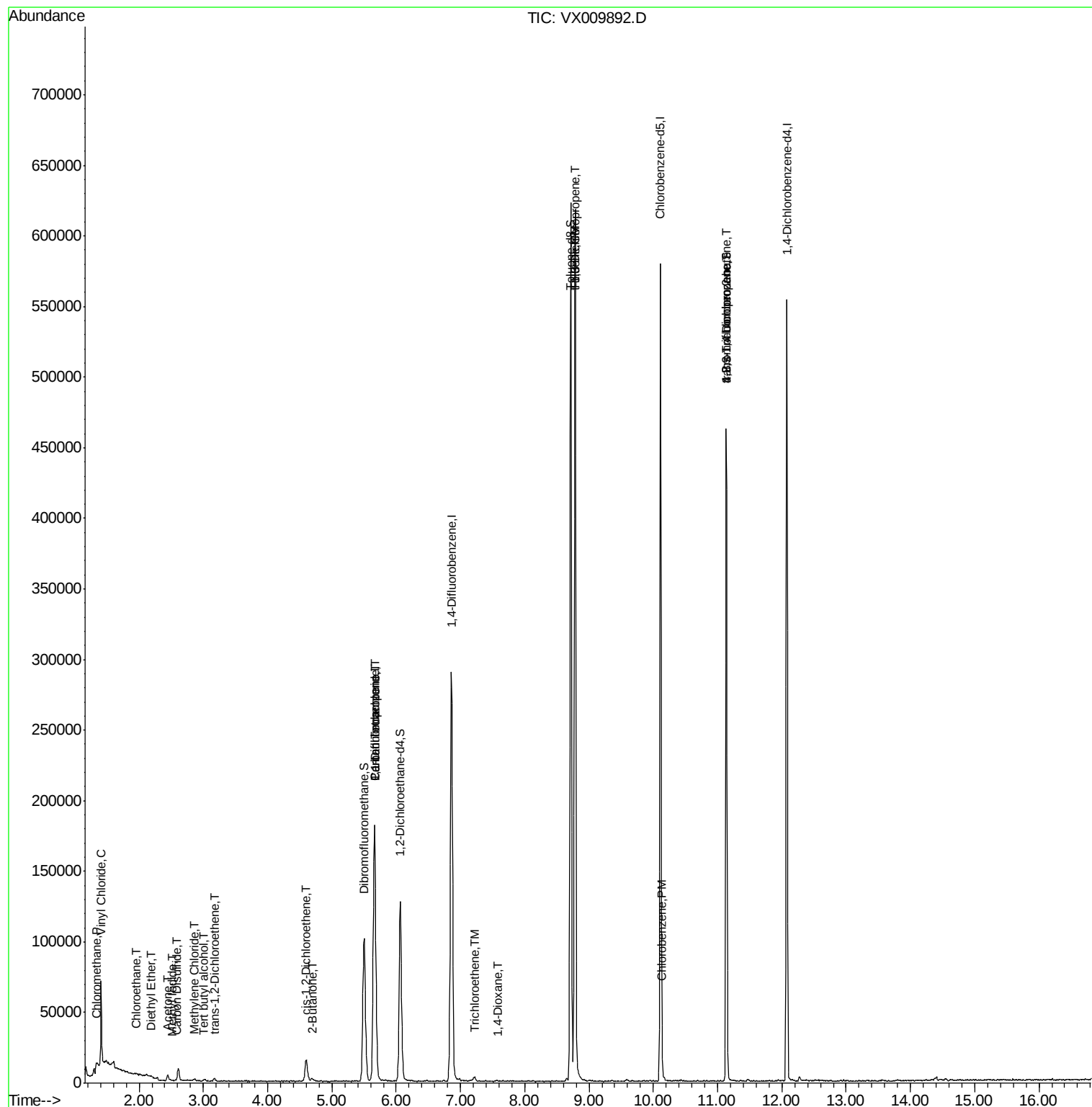
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	176337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	281122	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110767	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	122179	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	5.50	113	86724	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	8.71	98	362621	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.13	95	121026	46.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.36%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1295	0.584	ug/l	91
4) Vinyl Chloride	1.41	62	38717	17.897	ug/l	96
6) Chloroethane	1.95	64	318	0.229	ug/l #	43
8) Diethyl Ether	2.19	74	275	0.221	ug/l	86
10) Methyl Iodide	2.51	142	63	4.624	ug/l #	42
11) Tert butyl alcohol	3.01	59	1359	2.439	ug/l #	76
16) Acetone	2.44	43	5402	4.179	ug/l	94
17) Carbon Disulfide	2.57	76	941	0.203	ug/l #	89
20) Methylene Chloride	2.86	84	527	0.252	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	634	0.353	ug/l	79
25) 2-Butanone	4.69	43	1043	0.519	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	9465	4.419	ug/l	89
28) Bromochloromethane	5.02	49	22	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	14053	5.379	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16729	7.048	ug/l #	15
44) Trichloroethene	7.23	130	1047	0.536	ug/l	63
49) 1,4-Dioxane	7.59	88	19	0.324	ug/l #	1
52) Toluene	8.79	92	226660	46.118	ug/l	99
53) t-1,3-Dichloropropene	8.79	75	2906	0.971	ug/l #	1
65) Chlorobenzene	10.14	112	1076	0.214	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	63696	24.790	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63696	63.429	ug/l #	10

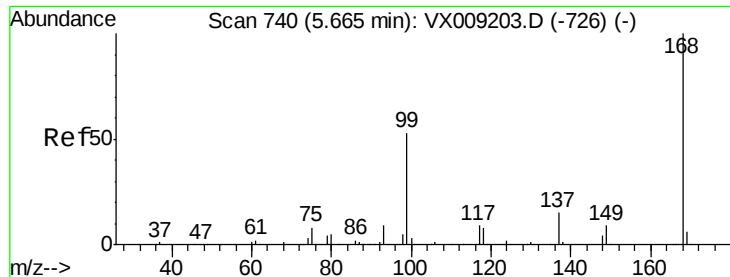
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

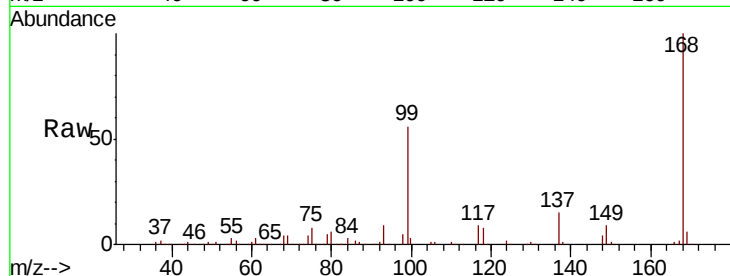
S32-0654

Tot Ion:168 Resp: 176337

Ion Ratio Lower Upper

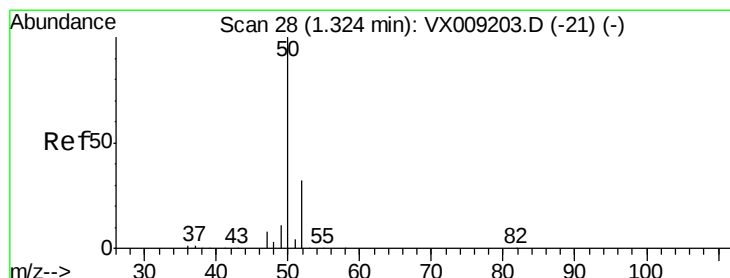
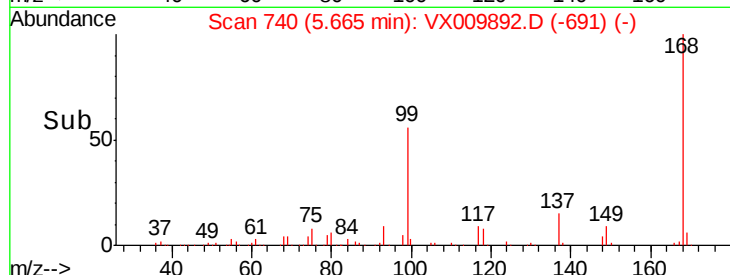
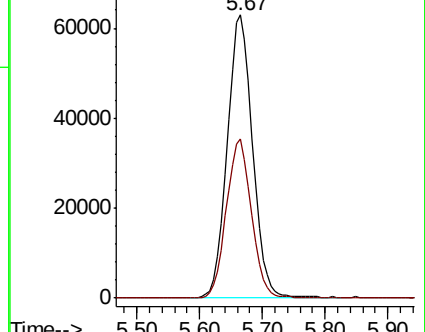
168 100

99 56.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.584 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009892.D

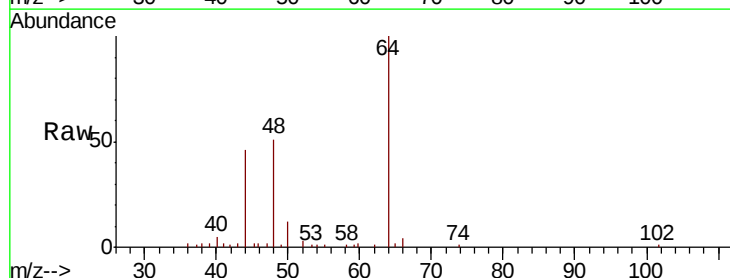
Acq: 24 May 2019 17:21

Tgt Ion: 50 Resp: 1295

Ion Ratio Lower Upper

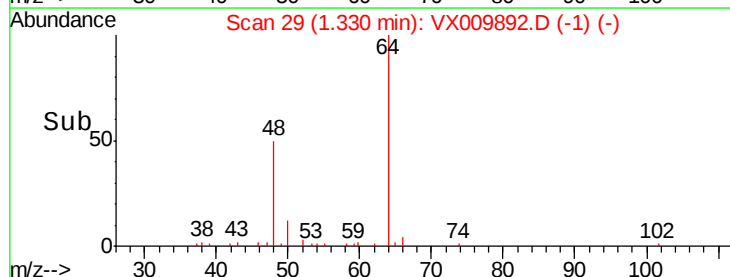
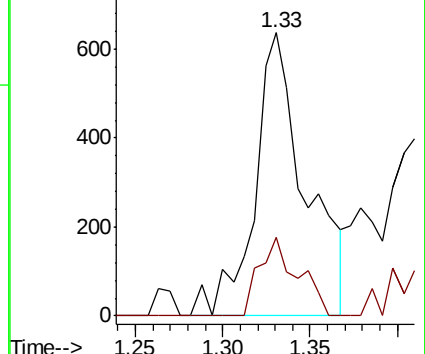
50 100

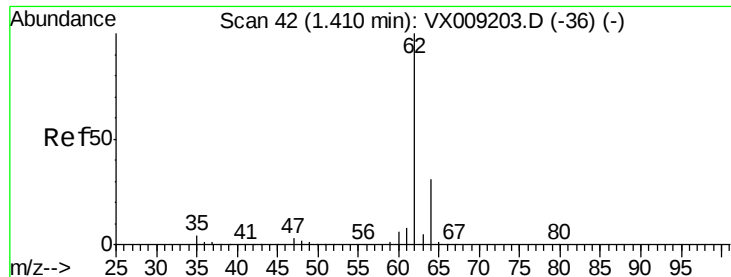
52 27.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 17.897 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

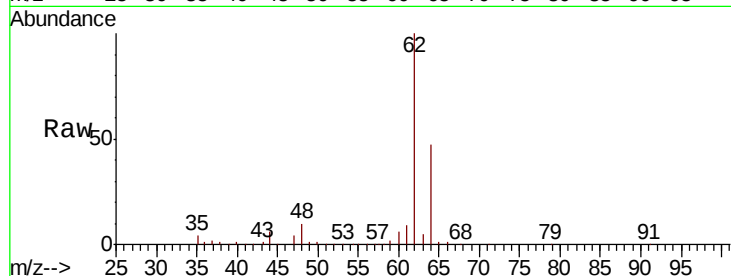
S32-0654

Tot Ion: 62 Resp: 38717

Ion Ratio Lower Upper

62 100

64 33.1 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

40000

30000

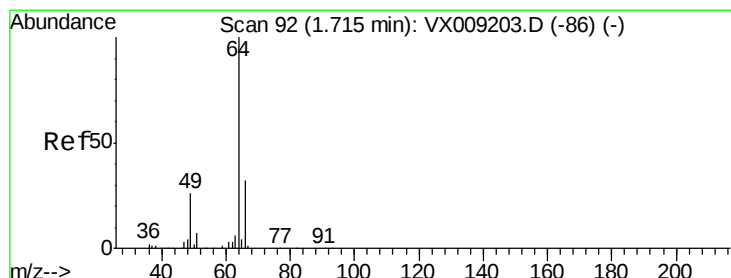
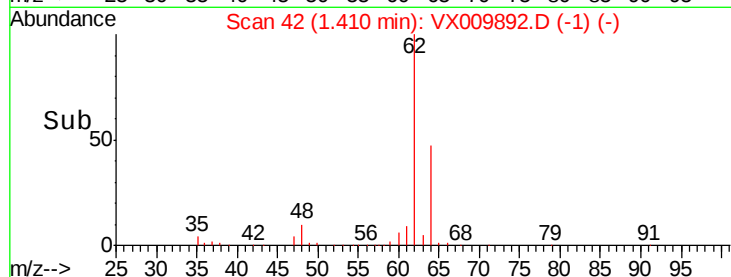
20000

10000

0

Time-->

1.35 1.40 1.45 1.50



#6

Chloroethane

Concen: 0.229 ug/l

RT: 1.95 min Scan# 131

Delta R.T. 0.24 min

Lab File: VX009892.D

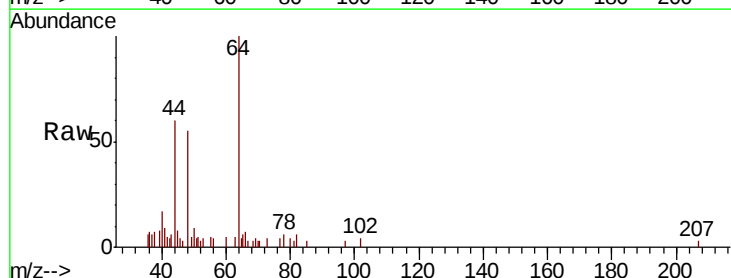
Acq: 24 May 2019 17:21

Tgt Ion: 64 Resp: 318

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2000

1500

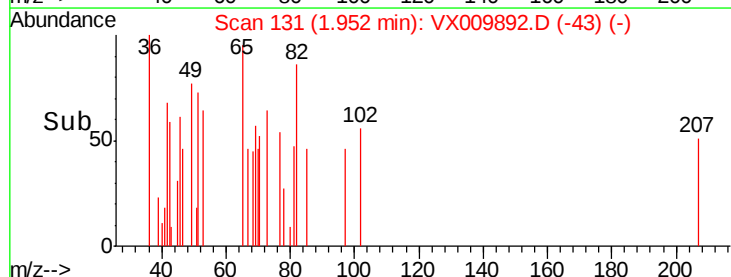
1000

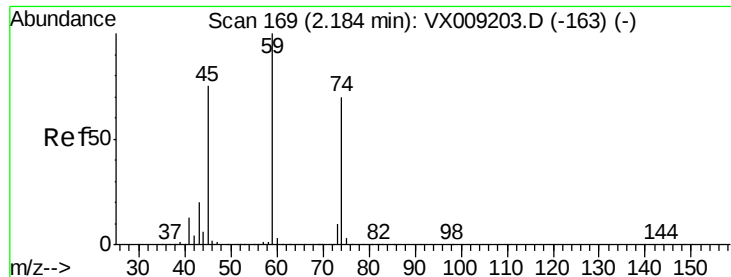
500

0

Time-->

1.93 1.94 1.95 1.96 1.97





#8

Diethyl Ether

Concen: 0.221 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

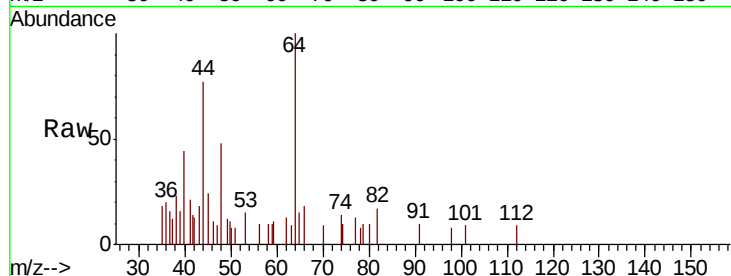
S32-0654

Tot Ion: 74 Resp: 275

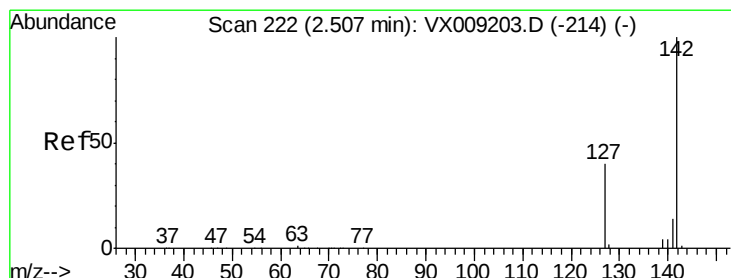
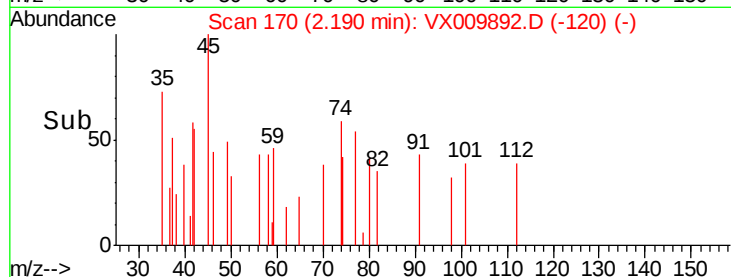
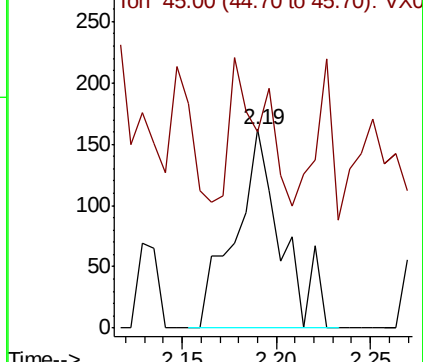
Ion Ratio Lower Upper

74 100

45 91.6 53.3 159.9



Abundance Ion 74.00 (73.70 to 74.70): VX0



#10

Methyl Iodide

Concen: 4.624 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

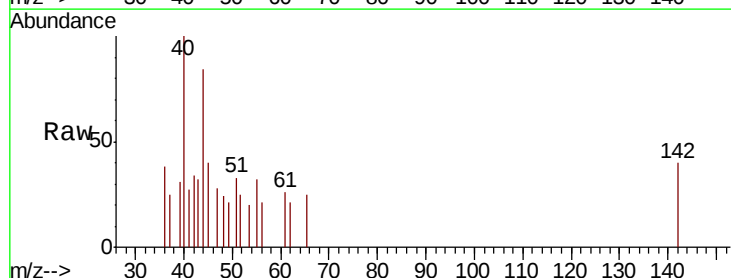
Tgt Ion: 142 Resp: 63

Ion Ratio Lower Upper

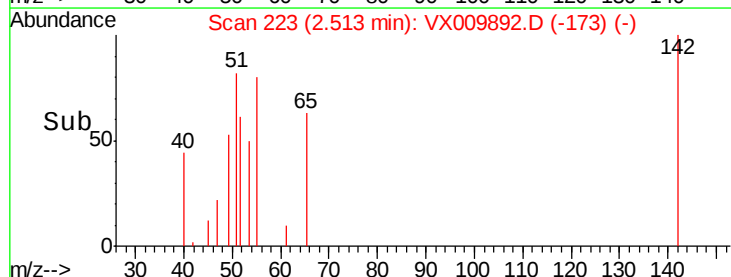
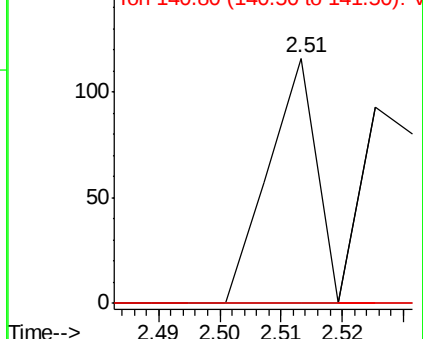
142 100

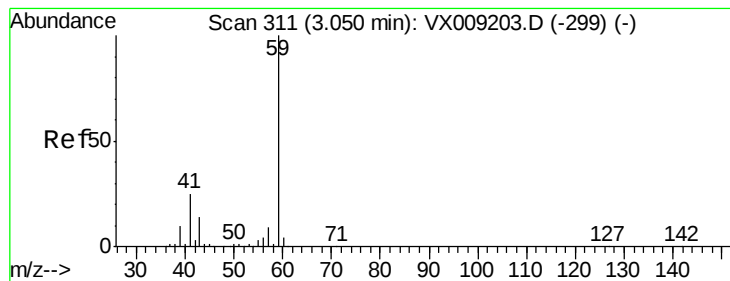
127 0.0 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V



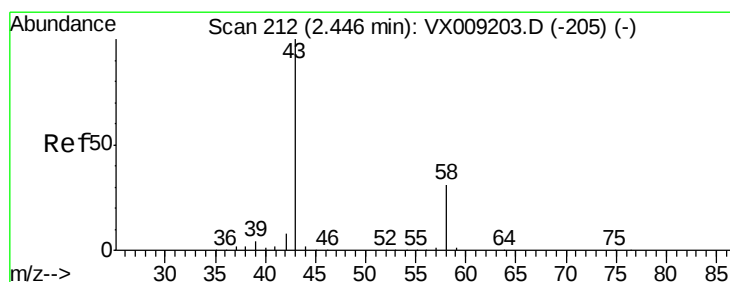
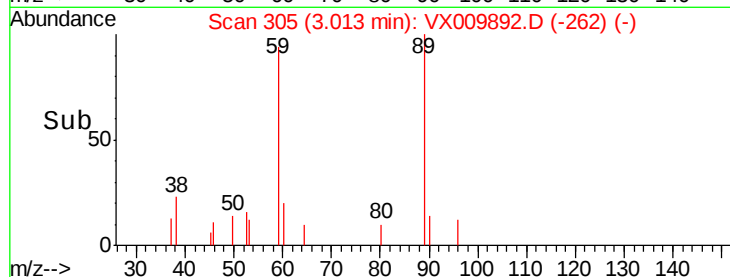
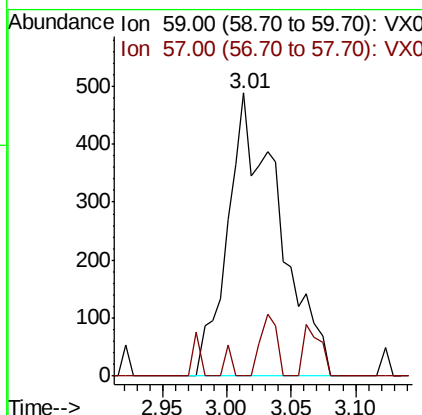
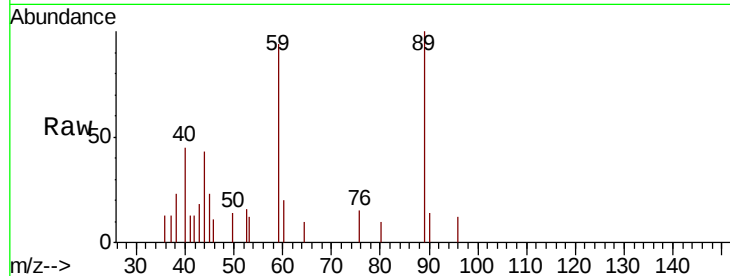


#11

Tert butyl alcohol
 Concen: 2.439 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0654

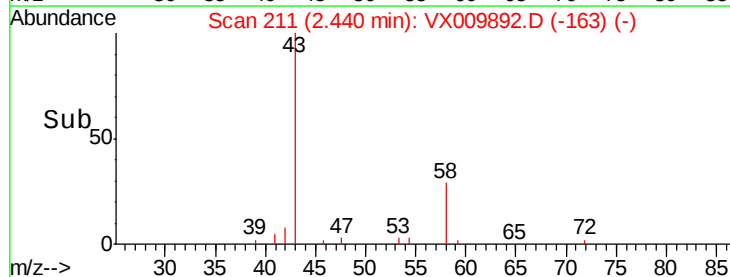
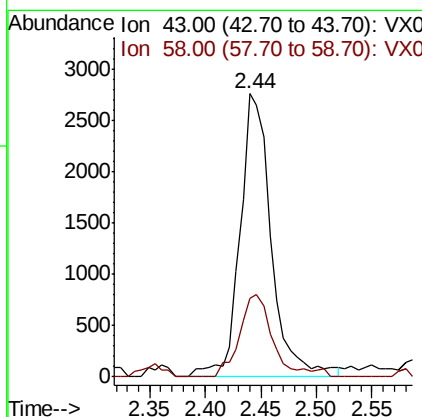
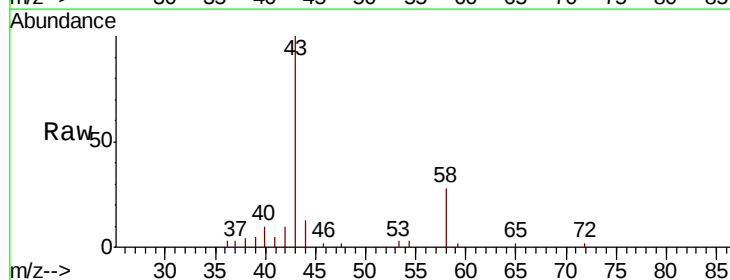
Tot Ion: 59 Resp: 1359
 Ion Ratio Lower Upper
 59 100
 57 1.4 8.2 12.2#

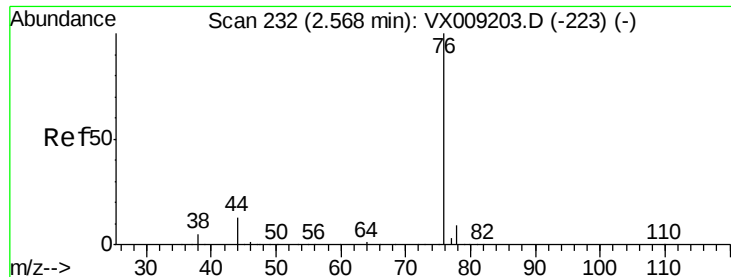


#16

Acetone
 Concen: 4.179 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Tgt Ion: 43 Resp: 5402
 Ion Ratio Lower Upper
 43 100
 58 27.9 24.9 37.3





#17

Carbon Disulfide

Concen: 0.203 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

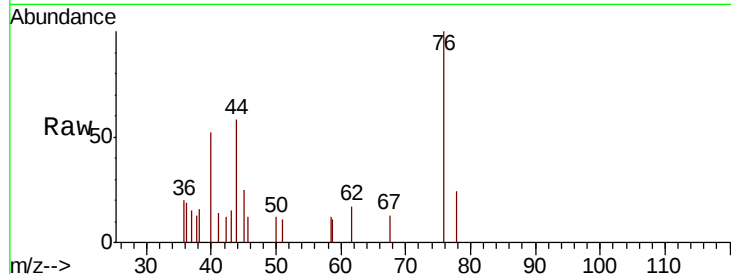
S32-0654

Tot Ion: 76 Resp: 941

Ion Ratio Lower Upper

76 100

78 13.3 7.4 11.0#

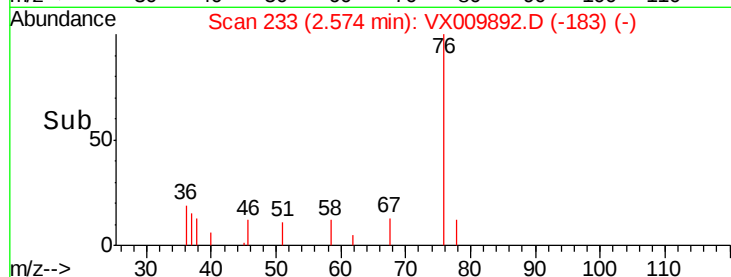


Abundance Ion 75.90 (75.60 to 76.60): VX0

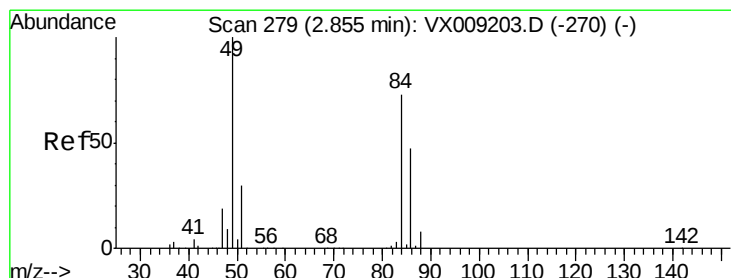
Ion 77.90 (77.60 to 78.60): VX0

2.57

Time-->



Time-->



#20

Methylene Chloride

Concen: 0.252 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Tgt Ion: 84 Resp: 527

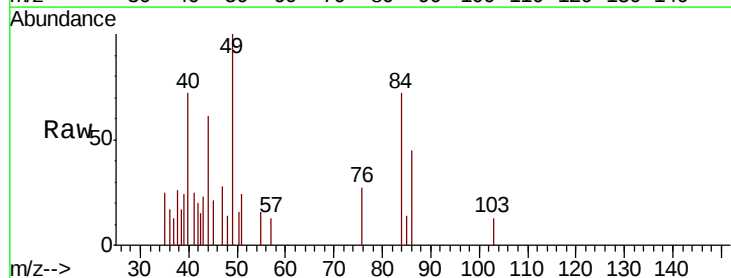
Ion Ratio Lower Upper

84 100

49 120.6 109.9 164.9

51 12.9 32.7 49.1#

86 63.3 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VX0

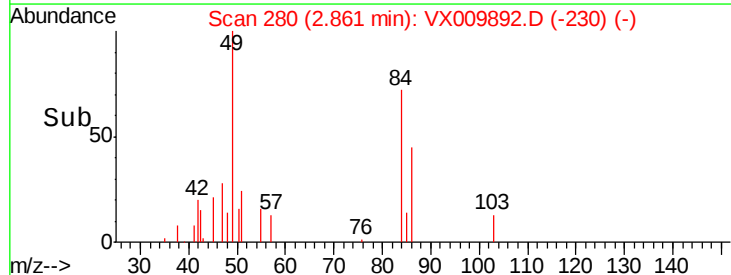
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

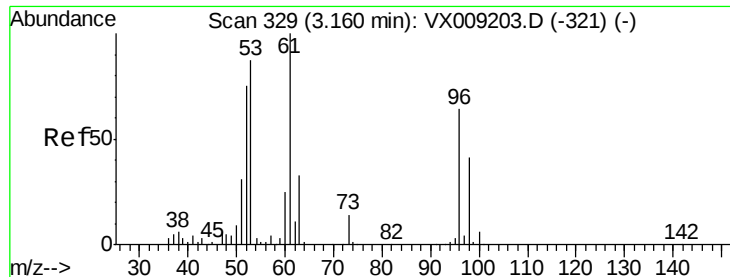
Ion 85.90 (85.60 to 86.60): VX0

2.86

Time-->



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.353 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

S32-0654

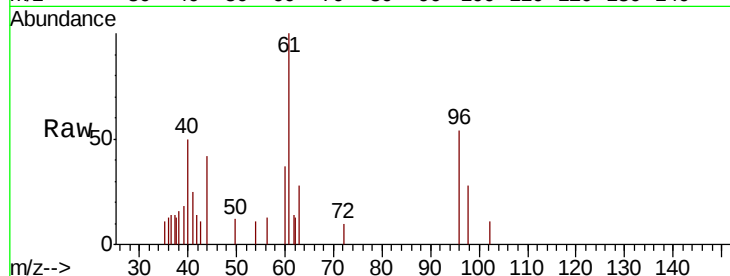
Tot Ion: 96 Resp: 634

Ion Ratio Lower Upper

96 100

61 186.0 124.5 186.7

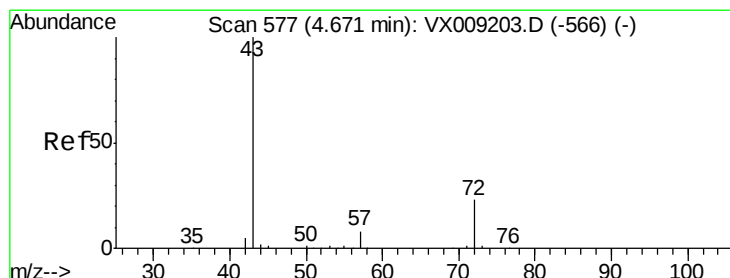
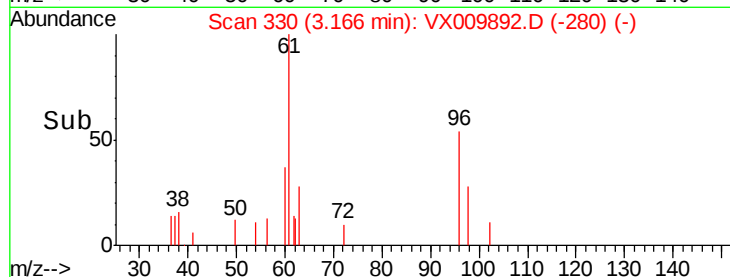
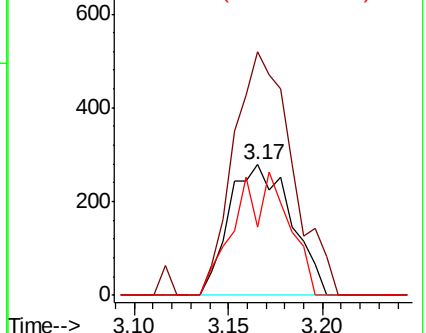
98 52.3 50.4 75.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.519 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009892.D

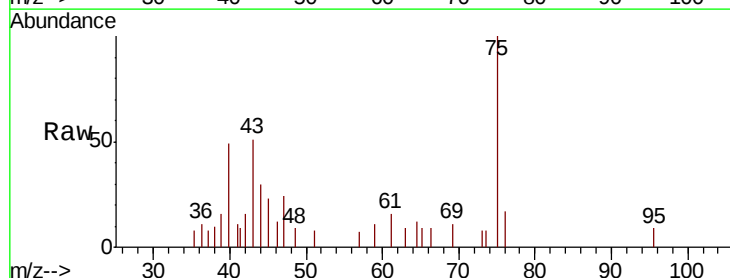
Acq: 24 May 2019 17:21

Tgt Ion: 43 Resp: 1043

Ion Ratio Lower Upper

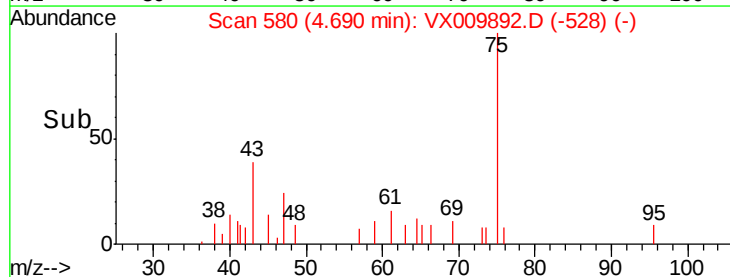
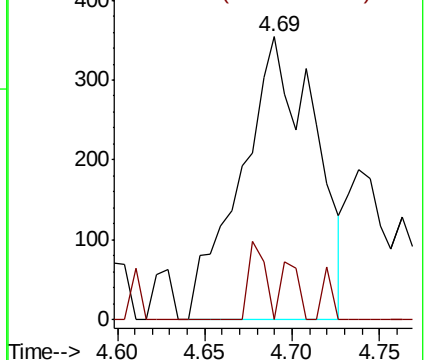
43 100

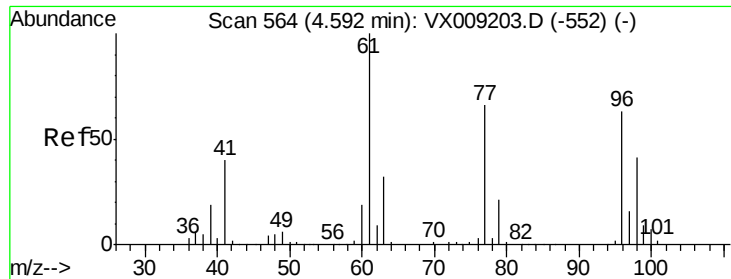
72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



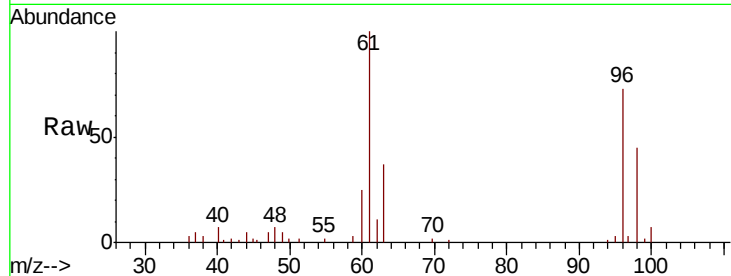


#27

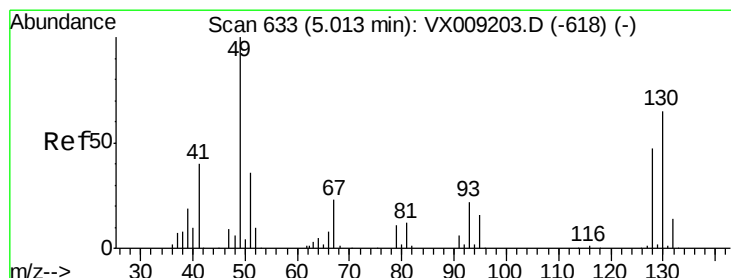
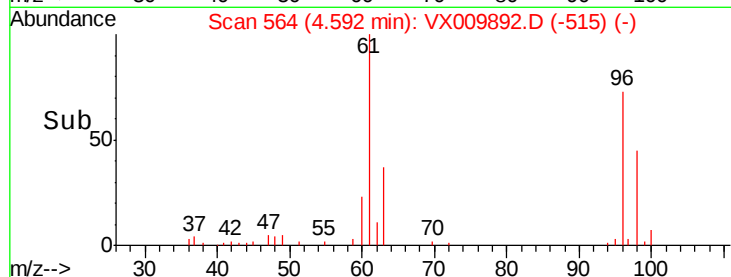
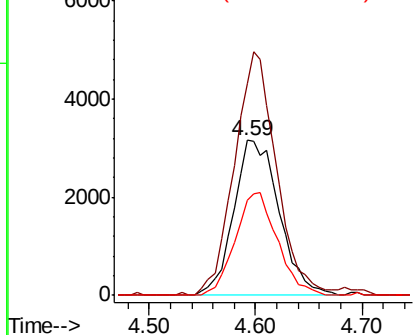
cis-1,2-Dichloroethene
 Concen: 4.419 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.00 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0654

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	324.0
98	61.2	0.0	130.4



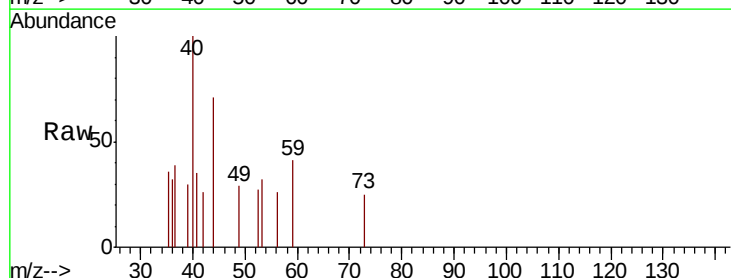
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



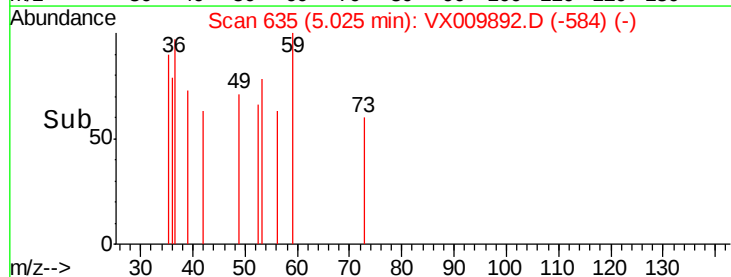
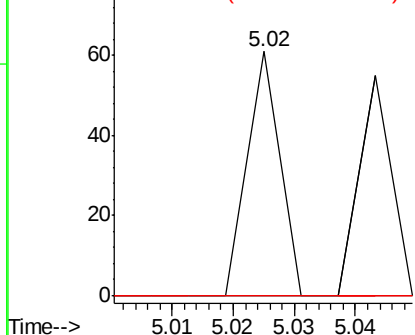
#28

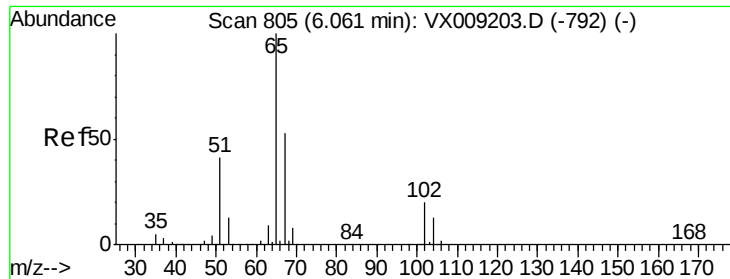
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Tgt 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





#33

1,2-Dichloroethane-d4

Concen: 50.755 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

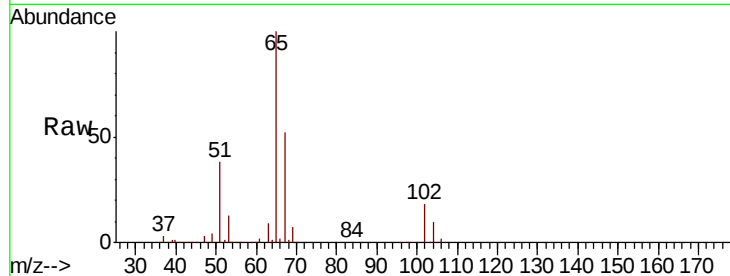
S32-0654

Tot Ion: 65 Resp: 122179

Ion Ratio Lower Upper

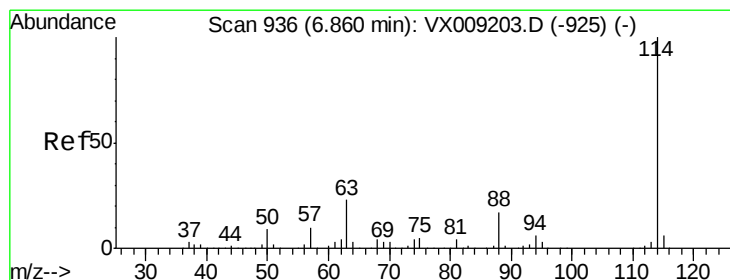
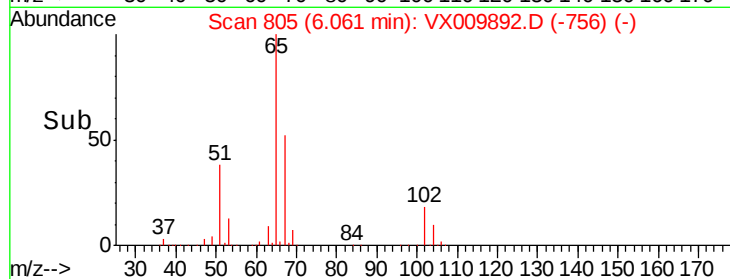
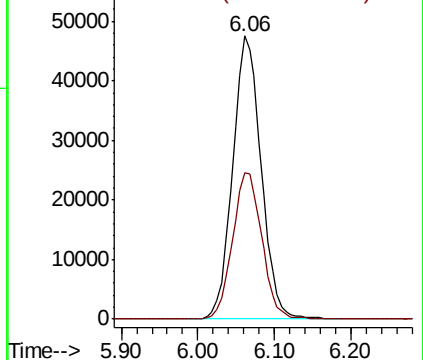
65 100

67 53.3 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: VX009892.D

Acq: 24 May 2019 17:21

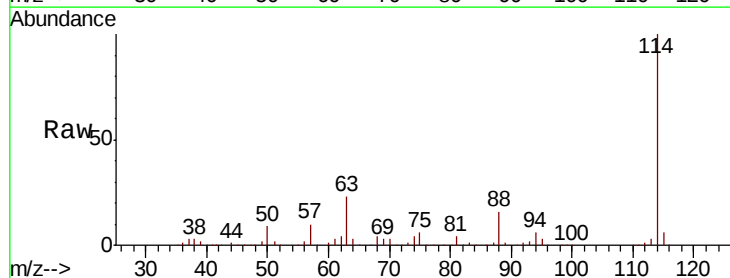
Tgt Ion: 114 Resp: 281122

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.6

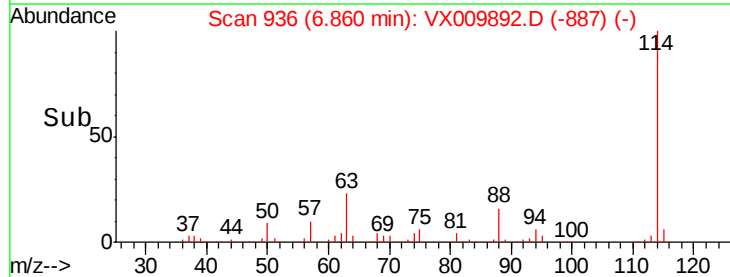
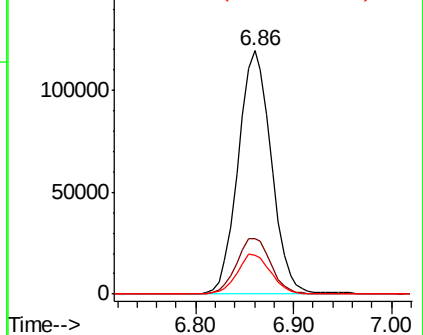
88 16.2 0.0 33.2

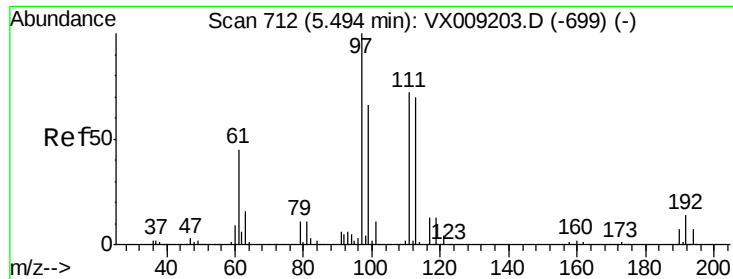


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

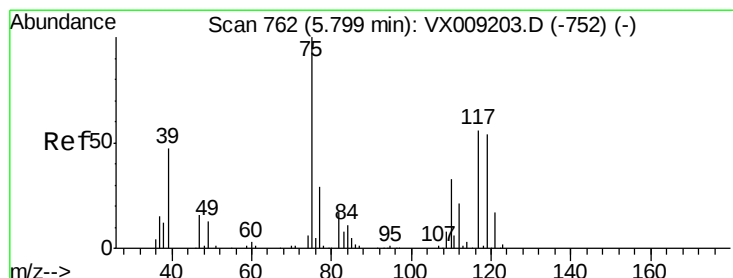
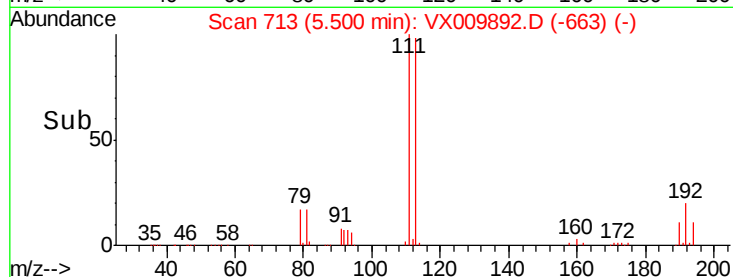
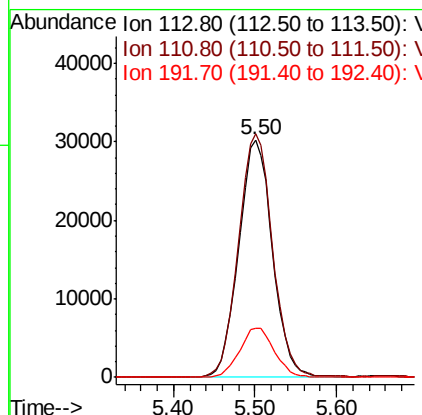
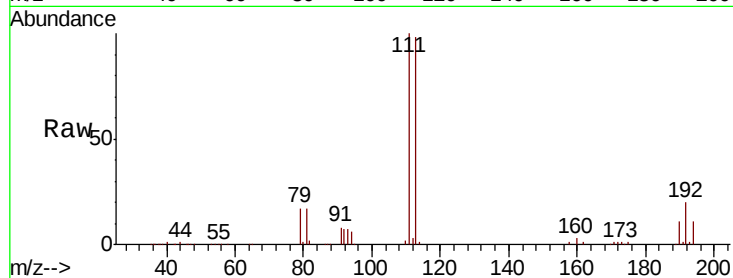




#35
 Dibromofluoromethane
 Concen: 49.073 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

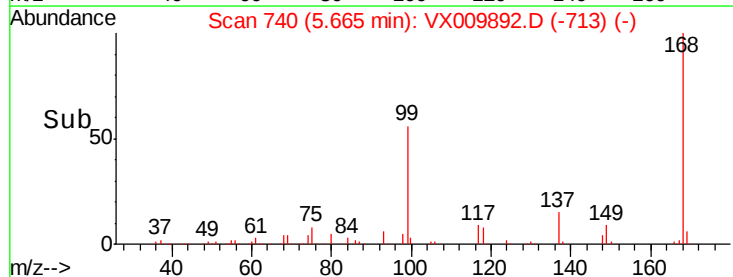
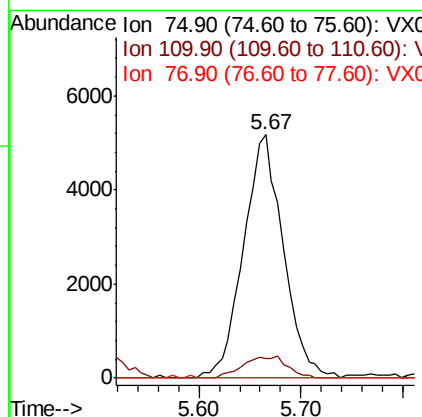
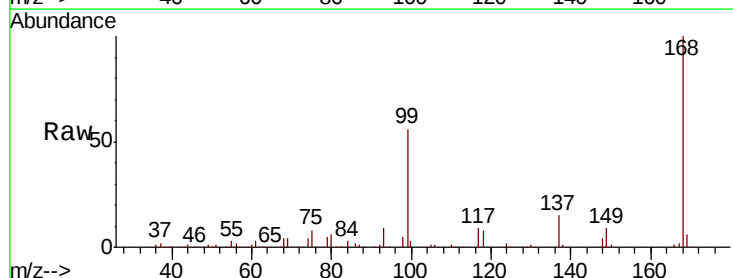
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0654

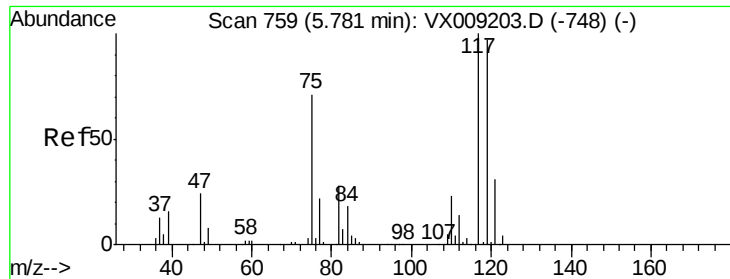
Tot Ion:113 Resp: 86724
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.8 124.2
 192 21.3 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.379 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Tgt Ion: 75 Resp: 14053
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.9 50.6#
 77 0.0 24.8 37.2#

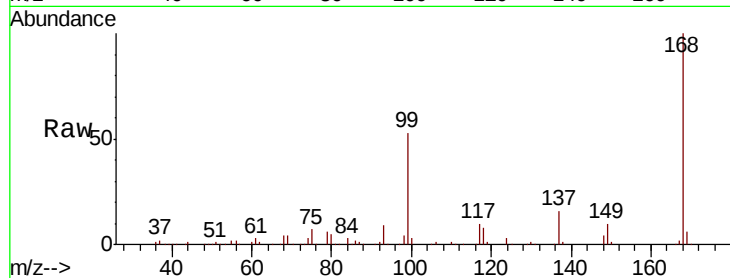




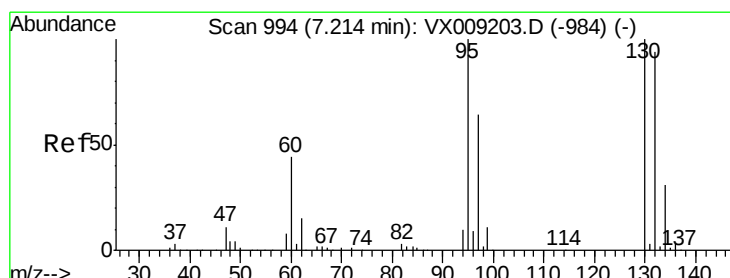
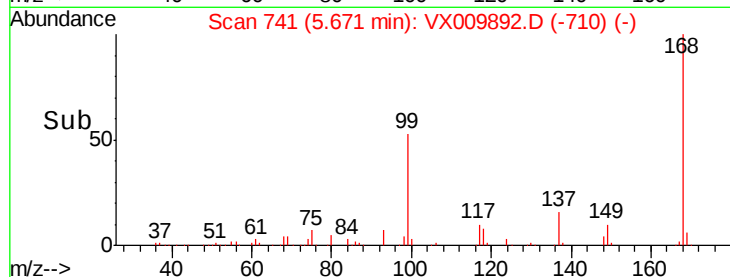
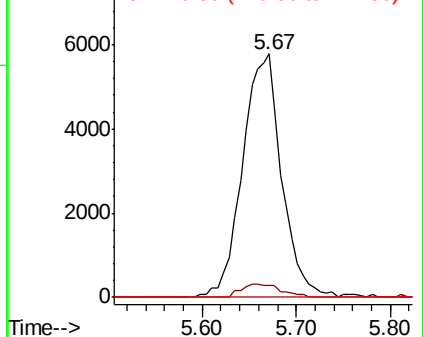
#38
Carbon Tetrachloride
Concen: 7.048 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX009892.D
Acq: 24 May 2019 17:21

Instrument :
MSVOA_X
ClientSampleId :
S32-0654

Tot Ion:117 Resp: 16729
Ion Ratio Lower Upper
117 100
119 5.0 77.5 116.3#
121 0.0 24.7 37.1#

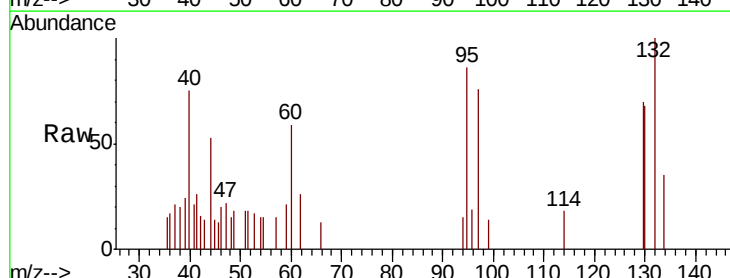


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

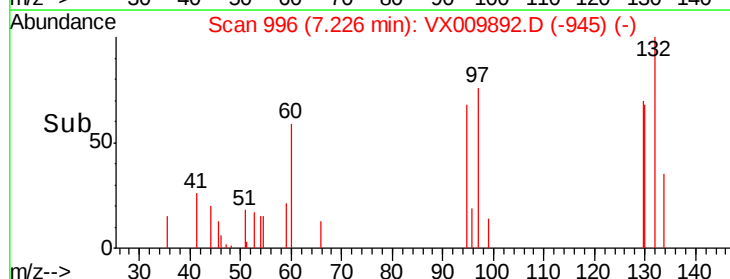
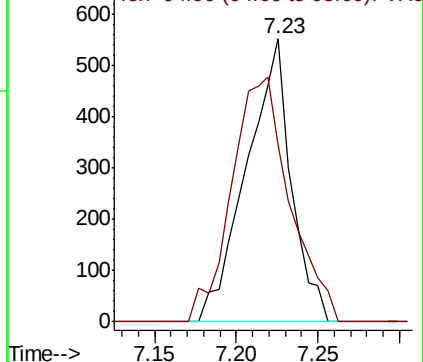


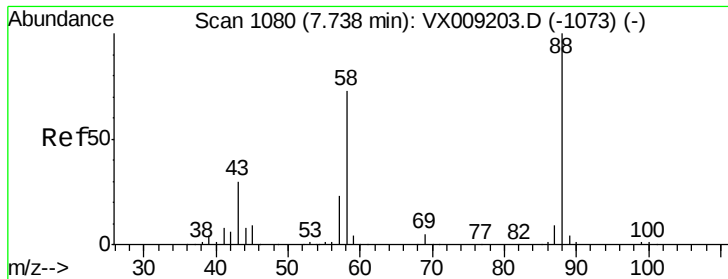
#44
Trichloroethene
Concen: 0.536 ug/l
RT: 7.23 min Scan# 996
Delta R.T. 0.01 min
Lab File: VX009892.D
Acq: 24 May 2019 17:21

Tgt Ion:130 Resp: 1047
Ion Ratio Lower Upper
130 100
95 62.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

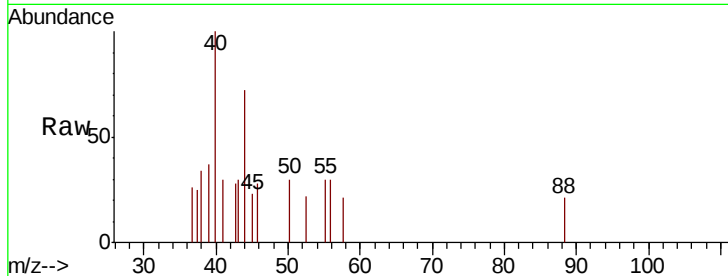




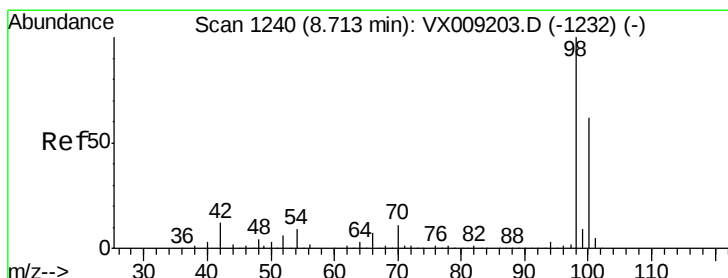
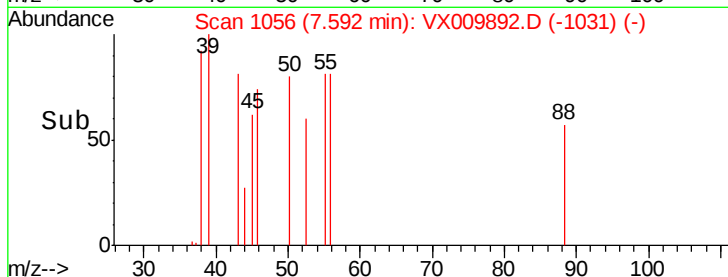
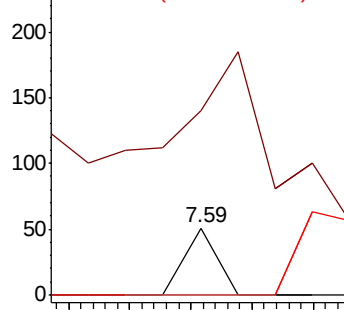
#49
 1,4-Dioxane
 Concen: 0.324 ug/l
 RT: 7.59 min Scan# 1056
 Delta R.T. -0.15 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0654

Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 1042.1 28.6 42.8#
 58 0.0 61.7 92.5#

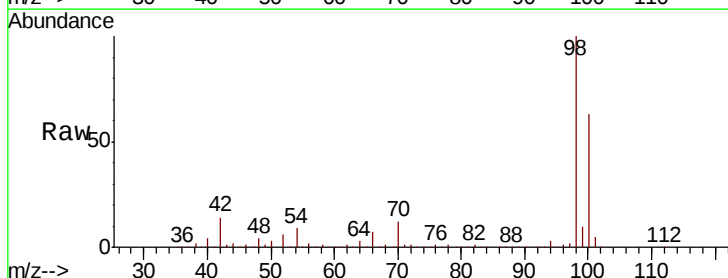


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

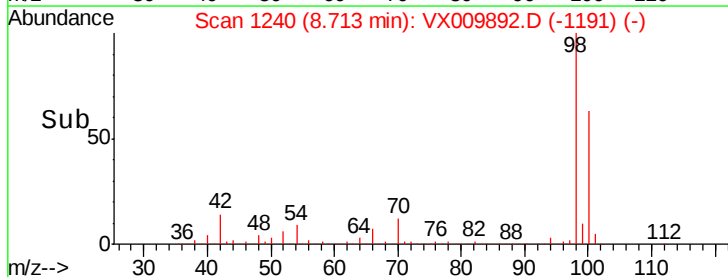
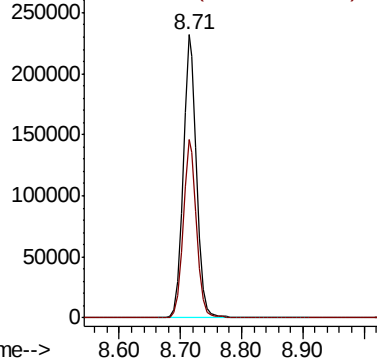


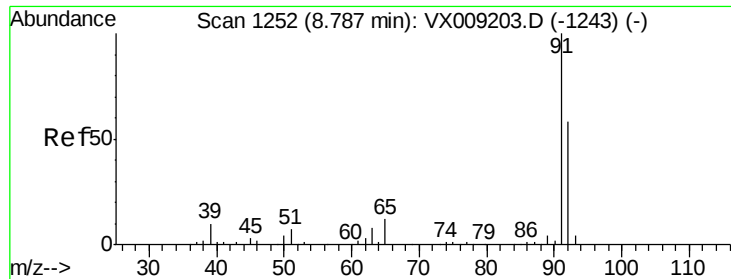
#50
 Toluene-d8
 Concen: 50.824 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009892.D
 Acq: 24 May 2019 17:21

Tgt Ion: 98 Resp: 362621
 Ion Ratio Lower Upper
 98 100
 100 62.8 51.2 76.8



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





#52

Toluene

Concen: 46.118 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

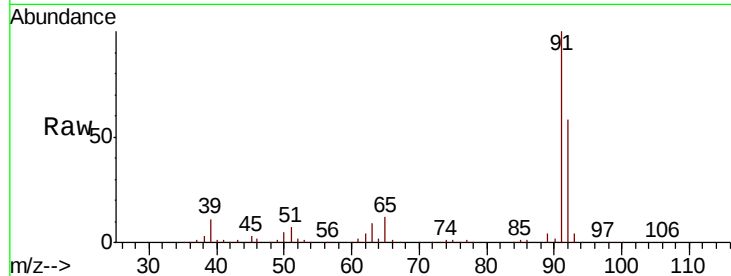
S32-0654

Tot Ion: 92 Resp: 226660

Ion Ratio Lower Upper

92 100

91 175.0 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

300000

250000

200000

150000

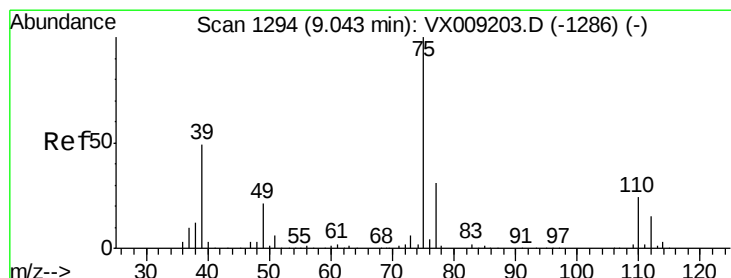
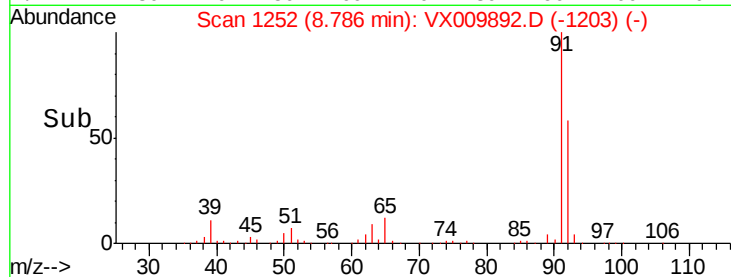
100000

50000

0

8.70 8.80 8.90 9.00

Time-->



#53

t-1,3-Dichloropropene

Concen: 0.971 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.26 min

Lab File: VX009892.D

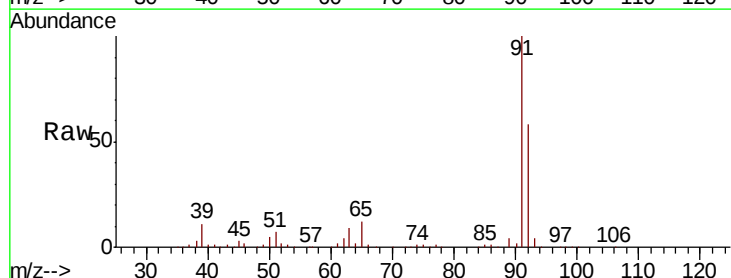
Acq: 24 May 2019 17:21

Tgt Ion: 75 Resp: 2906

Ion Ratio Lower Upper

75 100

77 150.3 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

3000

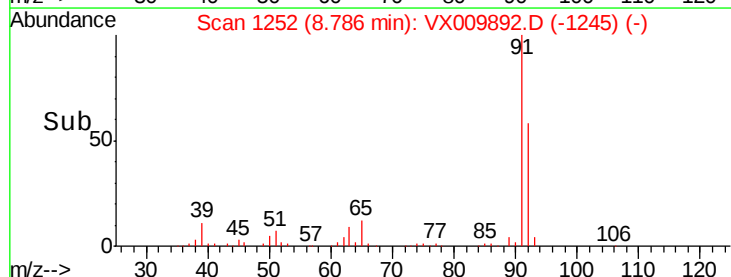
2000

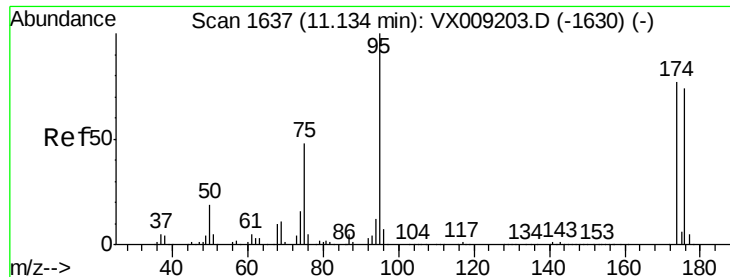
1000

0

8.75 8.80 8.85

Time-->





#62

4-Bromofluorobenzene

Concen: 46.683 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

S32-0654

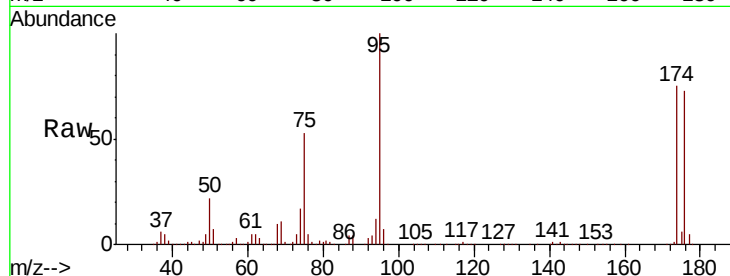
Tot Ion: 95 Resp: 121026

Ion Ratio Lower Upper

95 100

174 80.5 0.0 161.6

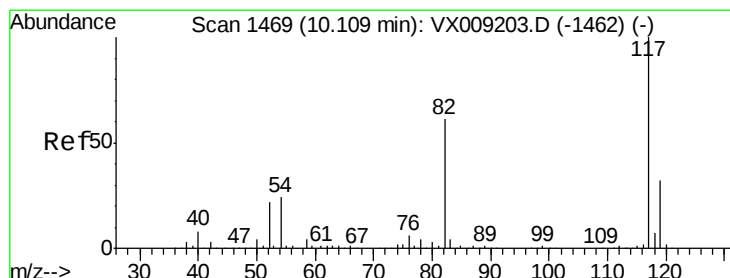
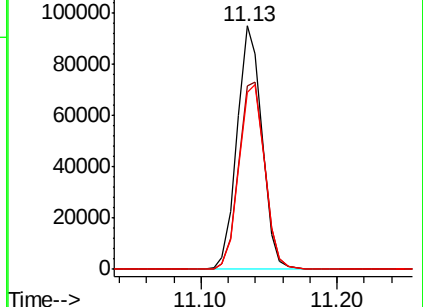
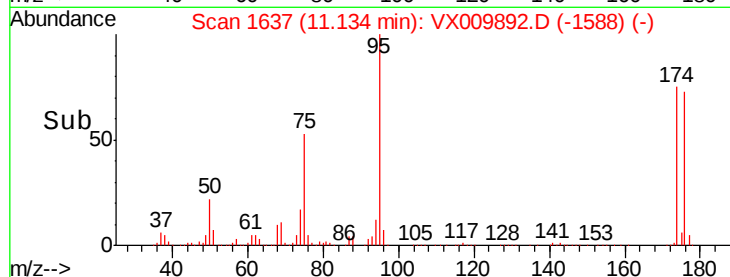
176 78.7 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009892.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009892.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009892.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

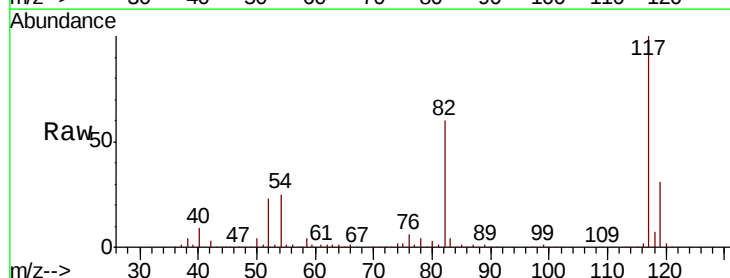
Tgt Ion: 117 Resp: 251808

Ion Ratio Lower Upper

117 100

82 59.7 48.8 73.2

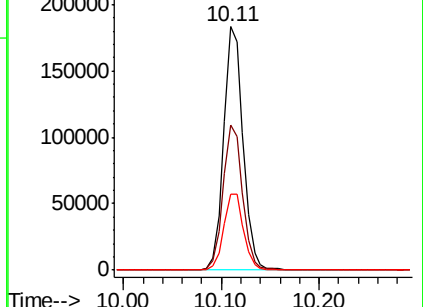
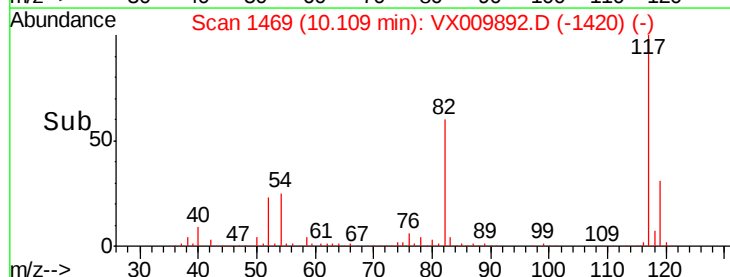
119 31.0 25.8 38.6

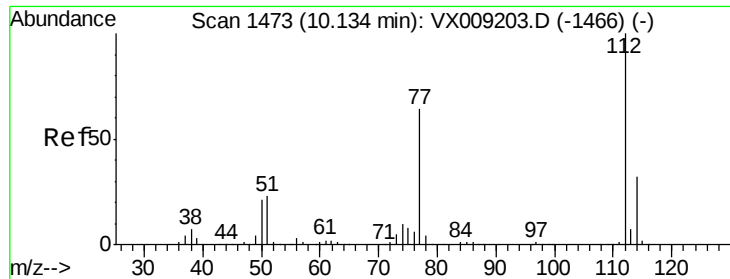


Abundance Ion 116.90 (116.60 to 117.60): VX009892.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009892.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009892.D (-1420) (-)





#65

Chlorobenzene

Concen: 0.214 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

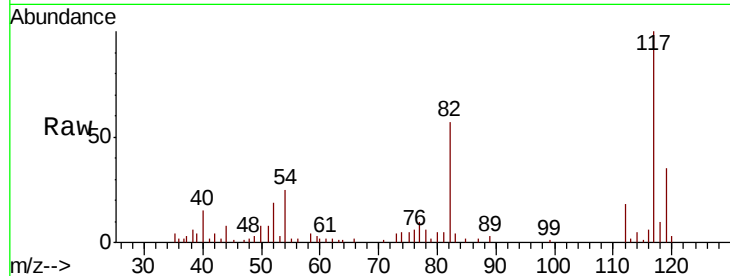
S32-0654

Tot Ion:112 Resp: 1076

Ion Ratio Lower Upper

112 100

114 29.0 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

800

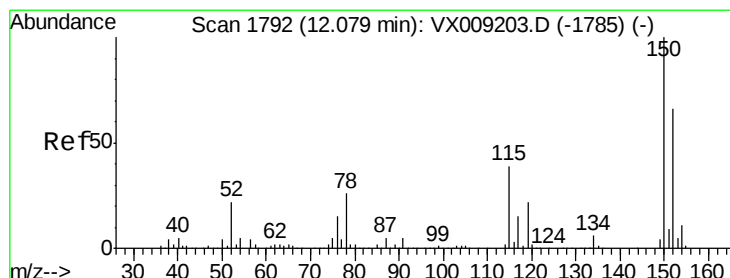
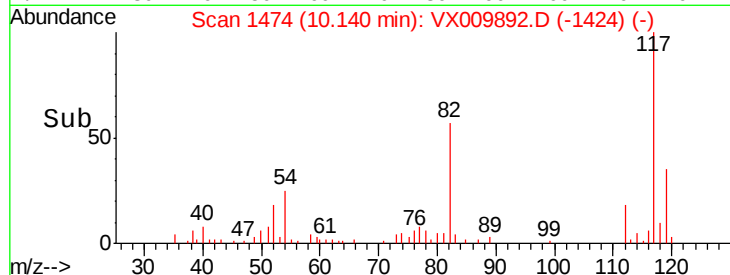
600

400

200

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

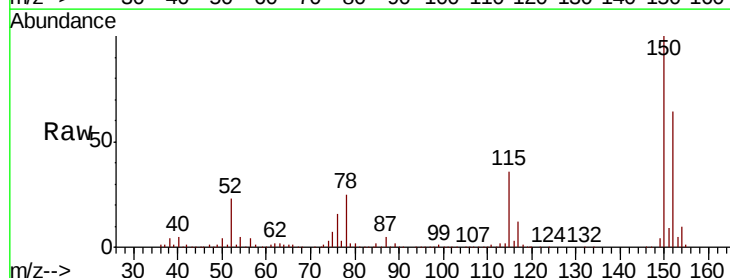
Tgt Ion:152 Resp: 110767

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

150 157.3 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

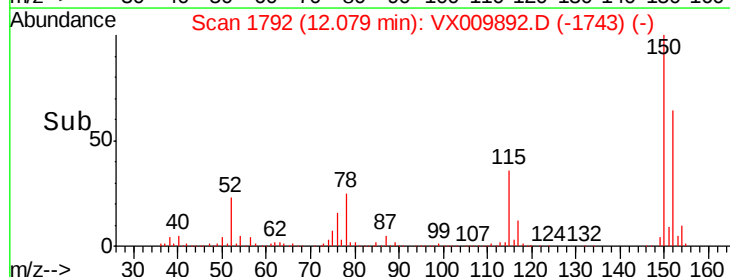
150000

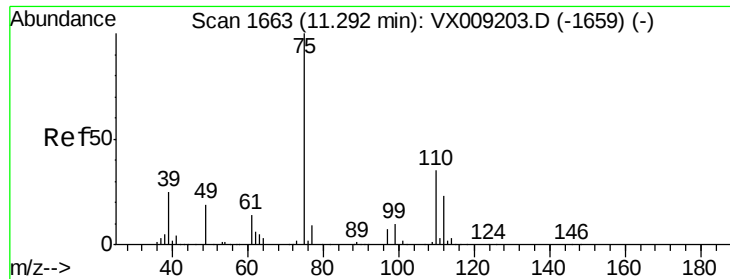
100000

50000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 24.790 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

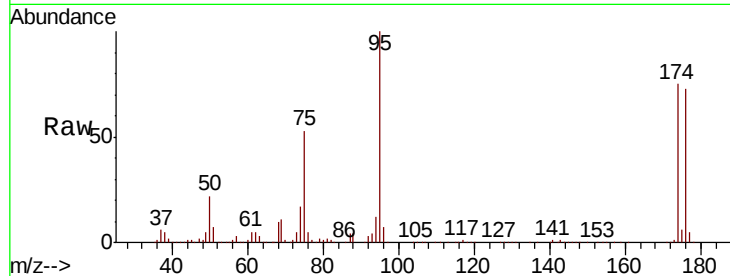
S32-0654

Tot Ion: 75 Resp: 63696

Ion Ratio Lower Upper

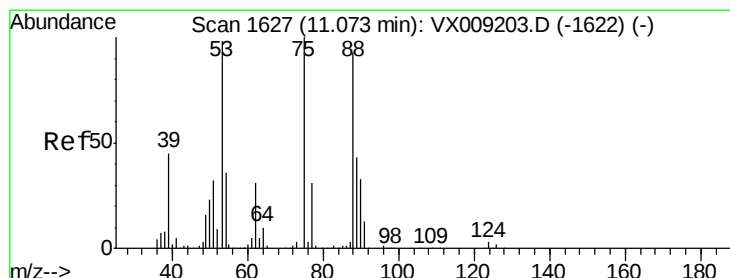
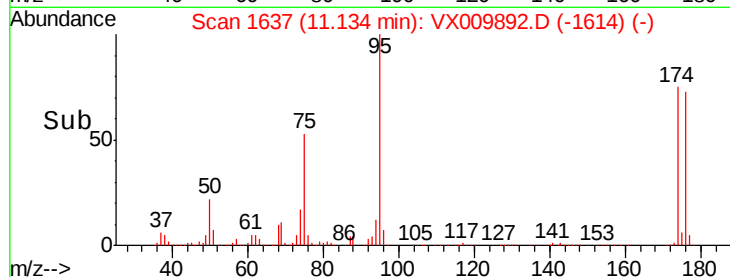
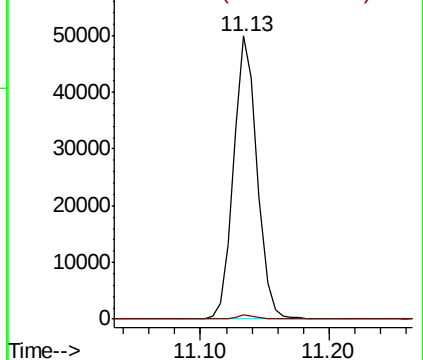
75 100

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: 63.429 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009892.D

Acq: 24 May 2019 17:21

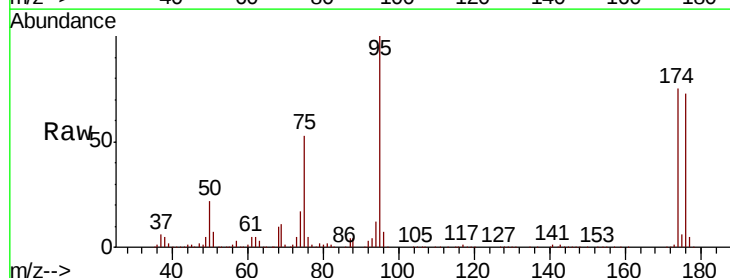
Tgt Ion: 75 Resp: 63696

Ion Ratio Lower Upper

75 100

53 0.3 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

