

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\
 Data File : VX008748.D
 Acq On : 08 Apr 2019 16:24
 Operator : JC/SP
 Sample : K2295-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0505-190404

Quant Time: Apr 09 06:45:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	186585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	315748	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	265150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111580	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	130573	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
35) Dibromofluoromethane	5.50	113	94306	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
50) Toluene-d8	8.71	98	388674	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.13	95	128126	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	

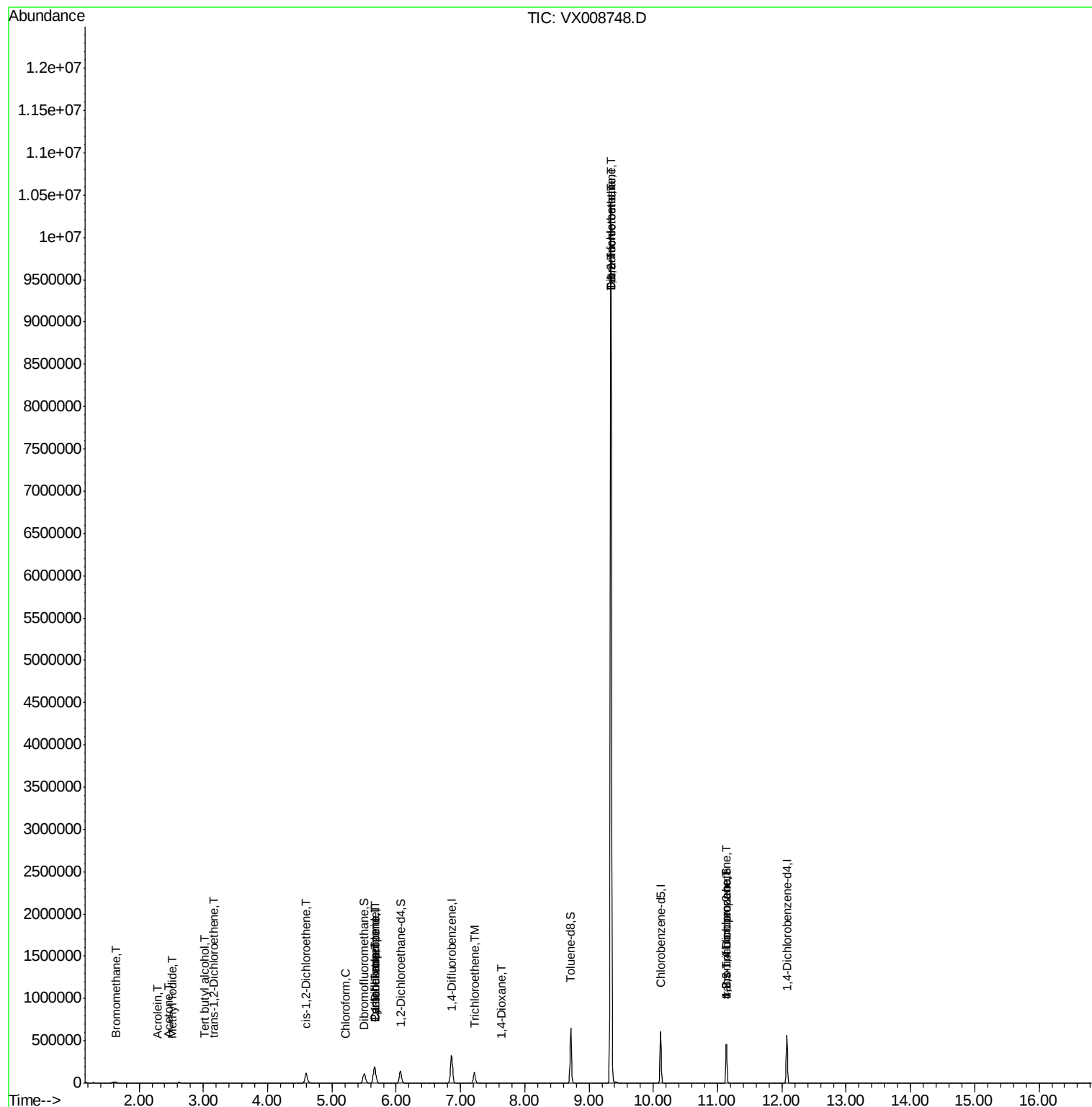
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	461	Below Cal	#	79
5) Bromomethane	1.64	94	442	2.183	ug/l #	68
6) Chloroethane	1.73	64	1096	Below Cal	#	43
10) Methyl Iodide	2.51	142	182	4.092	ug/l #	56
11) Tert butyl alcohol	3.01	59	2303	3.615	ug/l #	77
13) Acrolein	2.28	56	151	0.478	ug/l #	13
16) Acetone	2.45	43	3060	1.952	ug/l #	88
17) Carbon Disulfide	2.57	76	555	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.17	96	1738	0.745	ug/l	87
27) cis-1,2-Dichloroethene	4.60	96	69689	25.978	ug/l	89
28) Bromochloromethane	5.03	49	19	Below Cal	#	22
30) Chloroform	5.21	83	1040	0.247	ug/l	84
31) Cyclohexane	5.66	56	4299	0.914	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15107	4.377	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17490	6.123	ug/l #	17
44) Trichloroethene	7.21	130	47092	19.664	ug/l	97
49) 1,4-Dioxane	7.63	88	19	0.278	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	16041	6.592	ug/l #	1
60) Dibromochloromethane	9.34	129	1884985	822.080	ug/l #	11
64) Tetrachloroethene	9.34	164	1985269	1010.580	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	64392	21.007	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64392	57.908	ug/l #	9

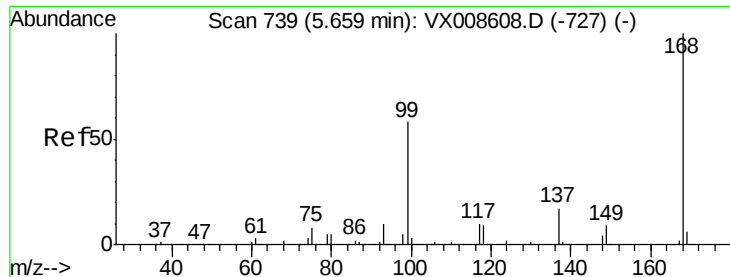
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

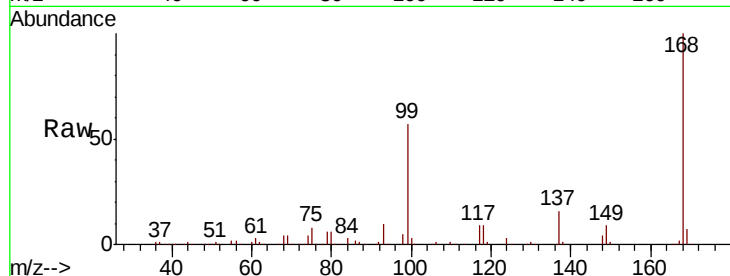
DUP-0505-190404

Tot Ion:168 Resp: 186585

Ion Ratio Lower Upper

168 100

99 57.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VX008608.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX008608.D (-727) (-)

5.66

60000

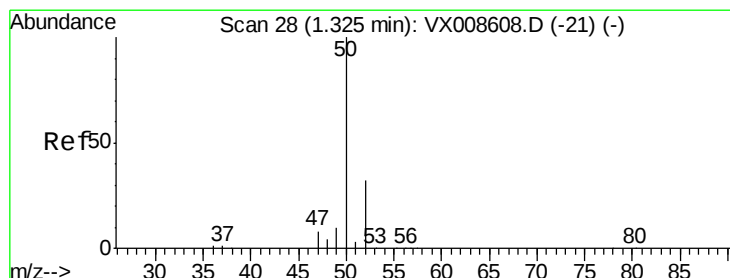
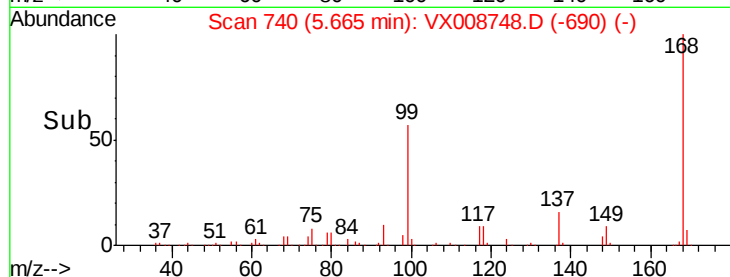
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008748.D

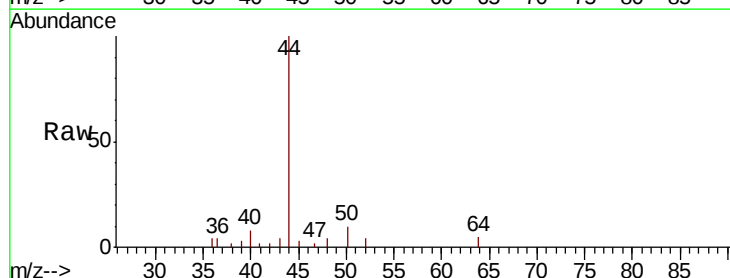
Acq: 08 Apr 2019 16:24

Tgt Ion: 50 Resp: 461

Ion Ratio Lower Upper

50 100

52 44.1 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX008608.D (-21) (-)

Ion 51.90 (51.60 to 52.60): VX008608.D (-21) (-)

1.32

300

250

200

150

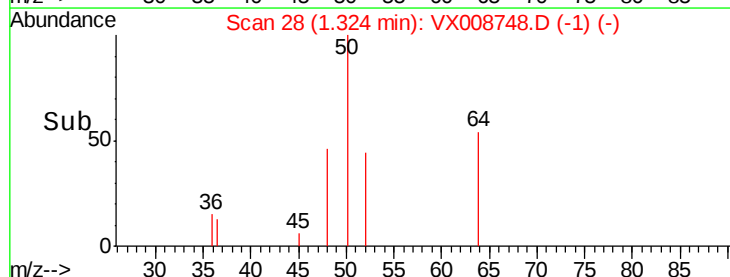
100

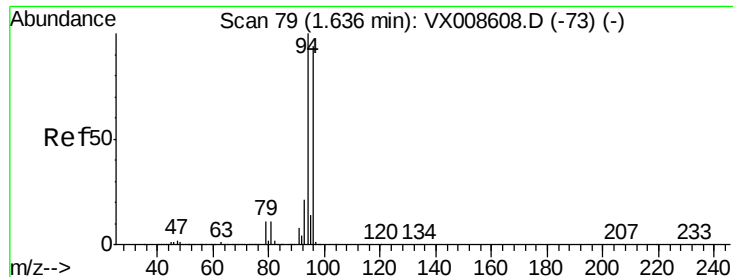
50

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.183 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

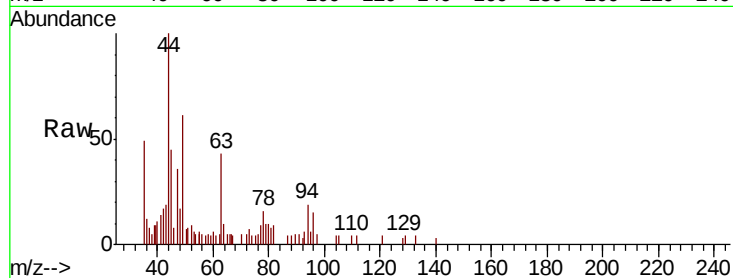
DUP-0505-190404

Tot Ion: 94 Resp: 442

Ion Ratio Lower Upper

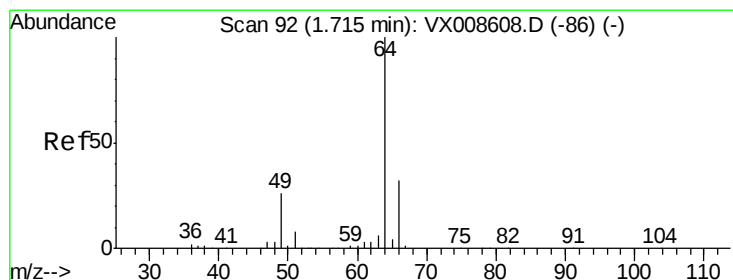
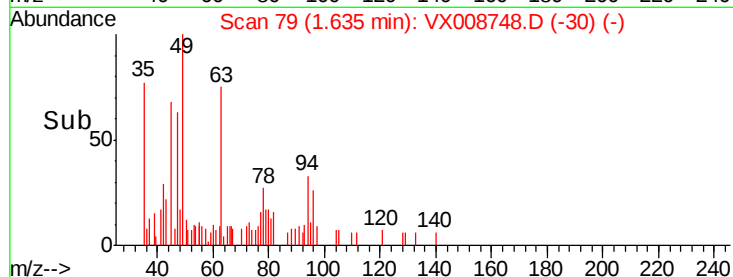
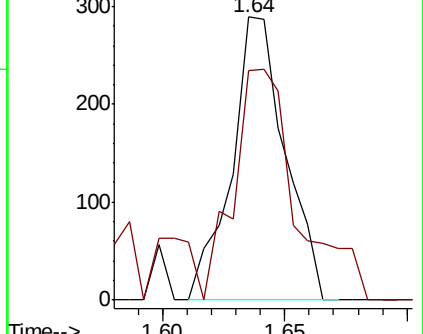
94 100

96 63.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX008748.D

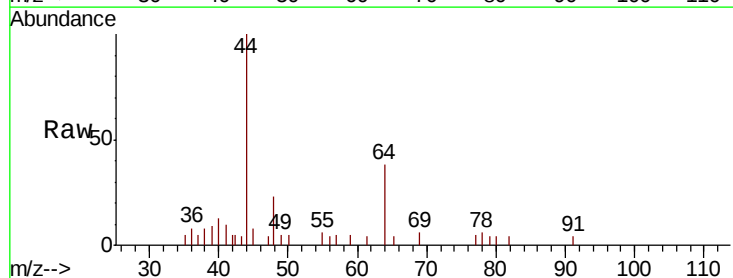
Acq: 08 Apr 2019 16:24

Tgt Ion: 64 Resp: 1096

Ion Ratio Lower Upper

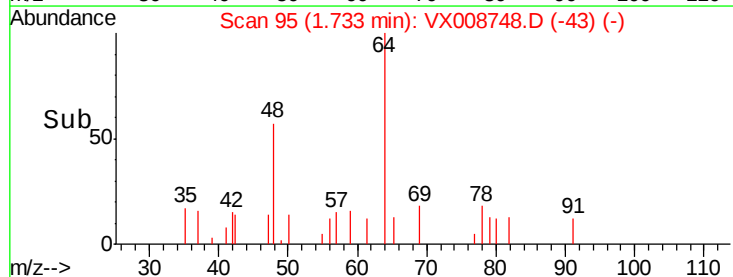
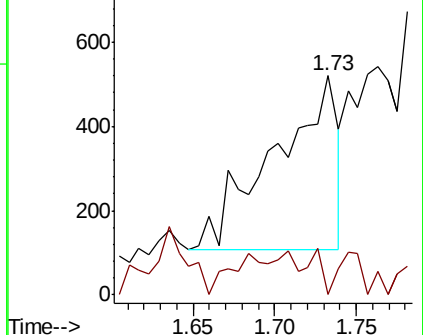
64 100

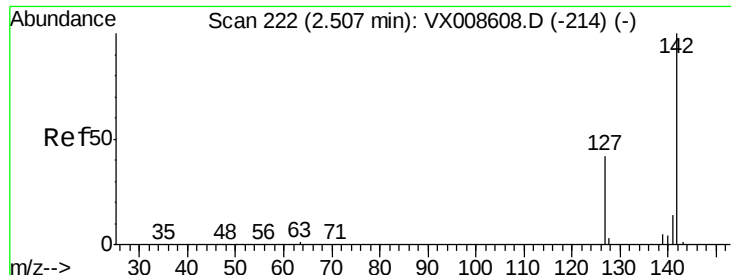
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

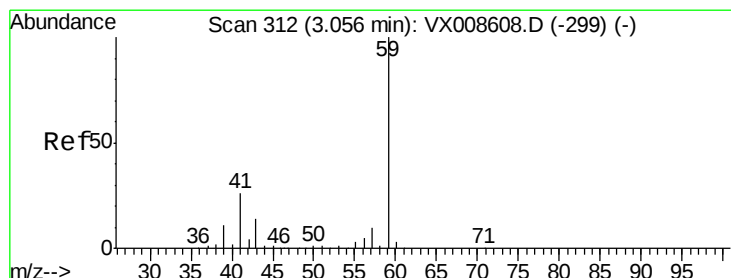
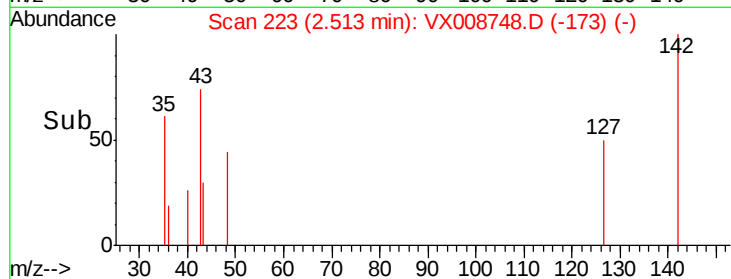
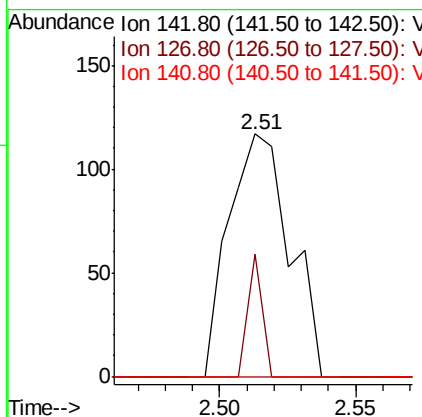
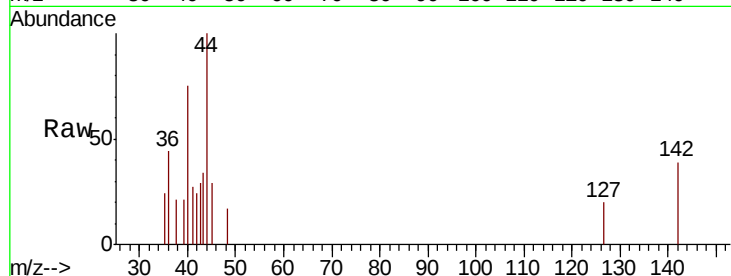




#10
Methvl Iodide
Concen: 4.092 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

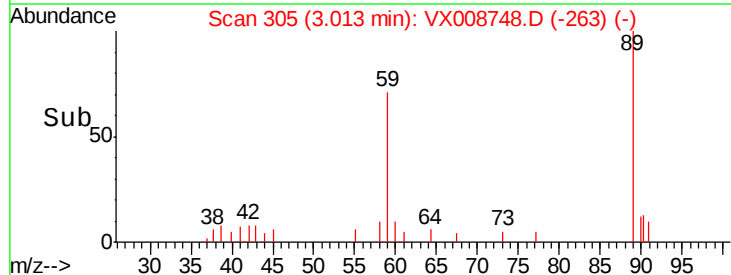
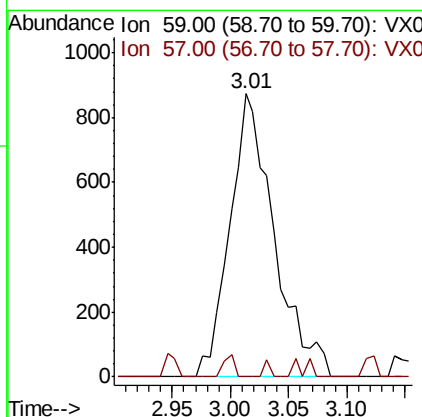
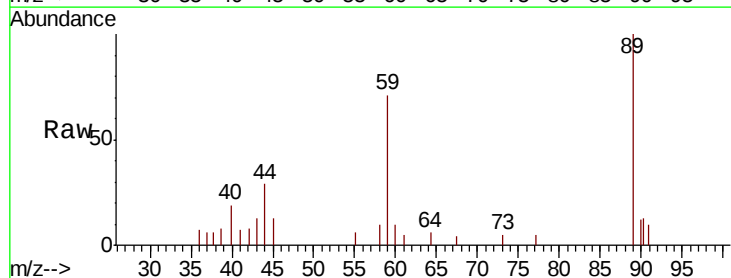
Instrument :
MSVOA_X
ClientSampleId :
DUP-0505-190404

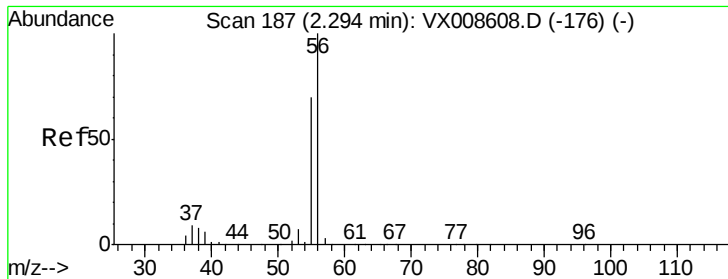
Tot Ion:142 Resp: 182
Ion Ratio Lower Upper
142 100
127 12.1 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 3.615 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

Tgt Ion: 59 Resp: 2303
Ion Ratio Lower Upper
59 100
57 1.9 8.3 12.5#





#13

Acrolein

Concen: 0.478 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

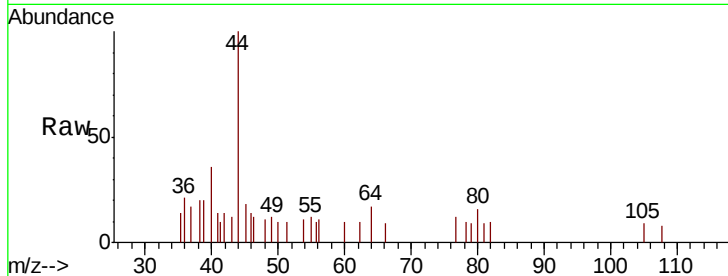
DUP-0505-190404

Tot Ion: 56 Resp: 151

Ion Ratio Lower Upper

56 100

55 0.0 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

150

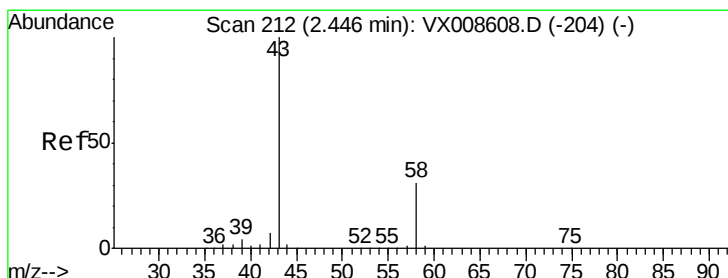
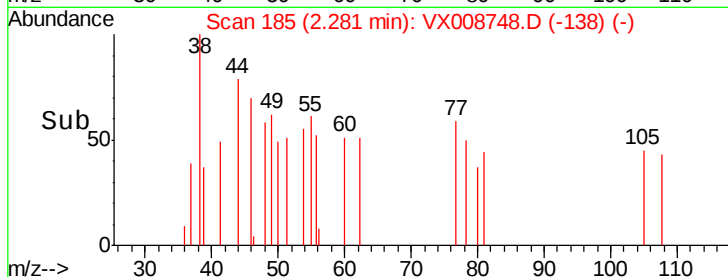
100

50

0

Time-->

2.26 2.28 2.30 2.32



#16

Acetone

Concen: 1.952 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX008748.D

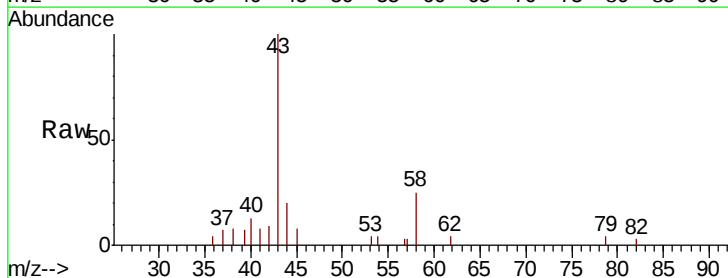
Acq: 08 Apr 2019 16:24

Tgt Ion: 43 Resp: 3060

Ion Ratio Lower Upper

43 100

58 24.6 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

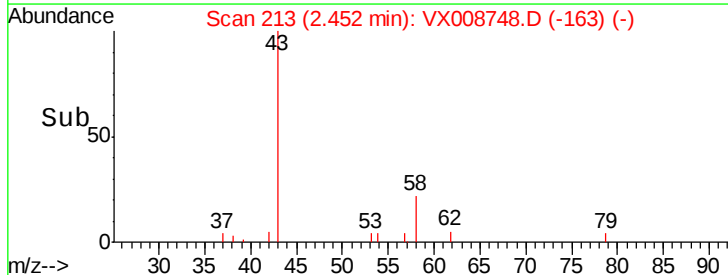
1000

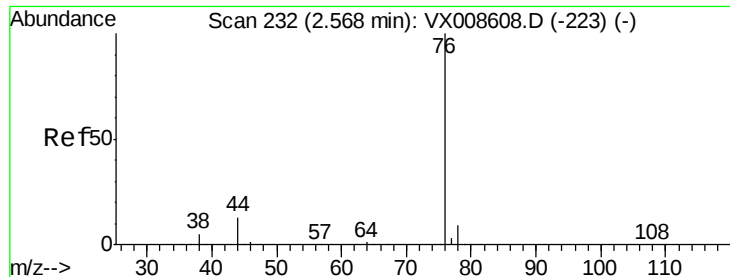
500

0

Time-->

2.40 2.45 2.50





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

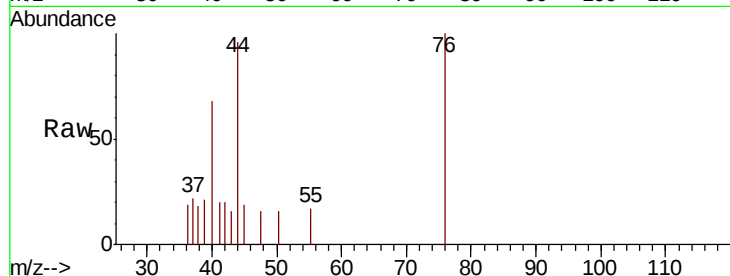
DUP-0505-190404

Tot Ion: 76 Resp: 555

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

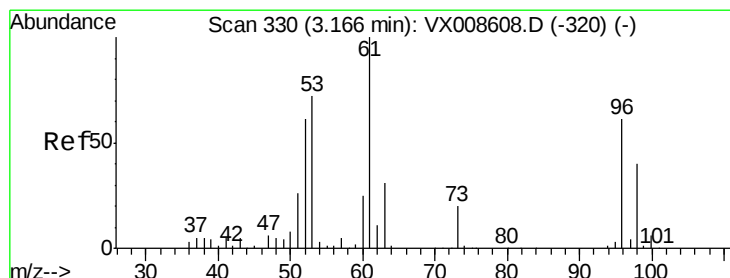
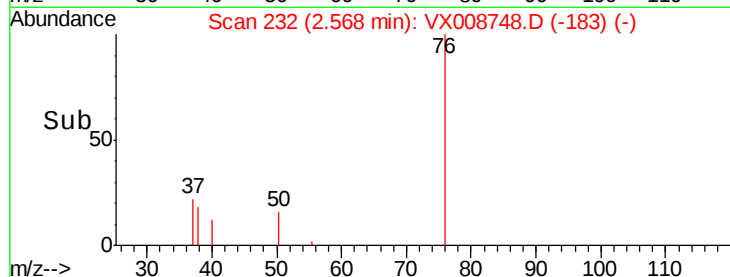
200

100

0

2.55 2.60

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.745 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

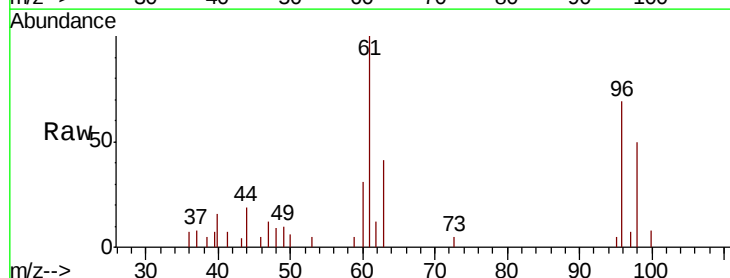
Tgt Ion: 96 Resp: 1738

Ion Ratio Lower Upper

96 100

61 145.4 132.1 198.1

98 72.2 52.2 78.2



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

1500

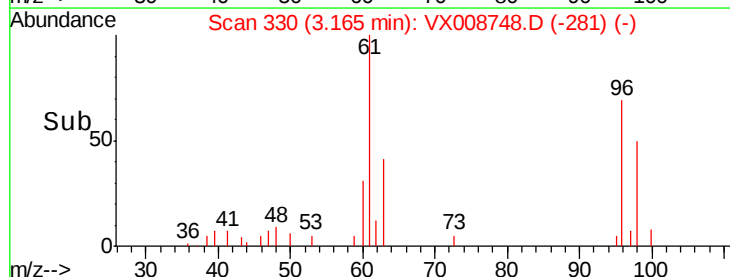
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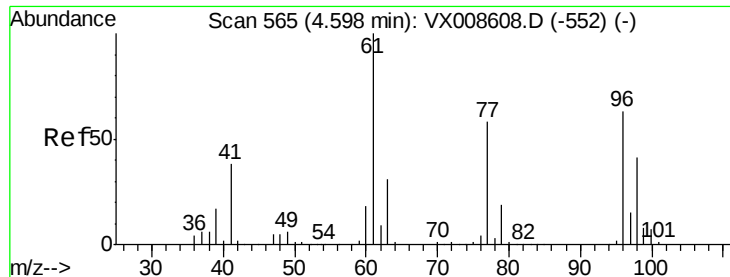
500

0

3.10 3.15 3.20

Time-->



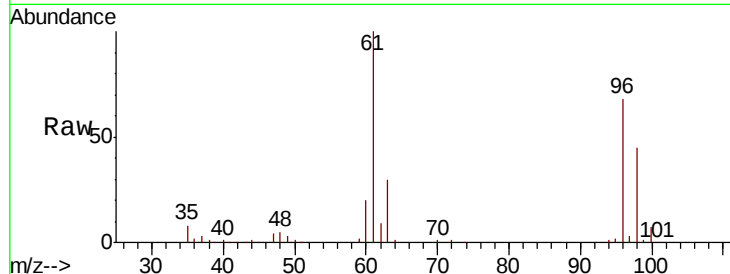


#27

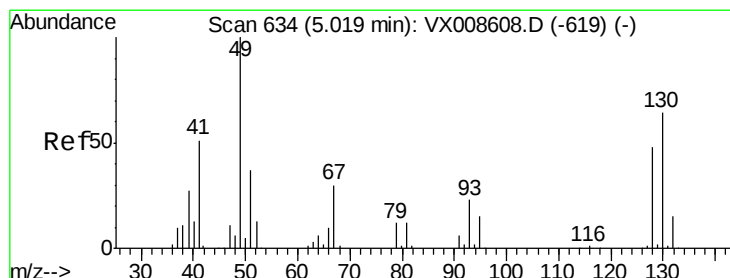
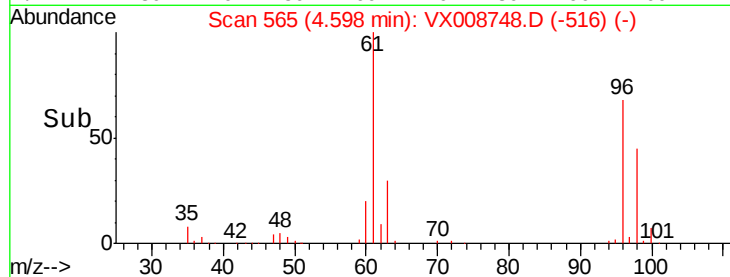
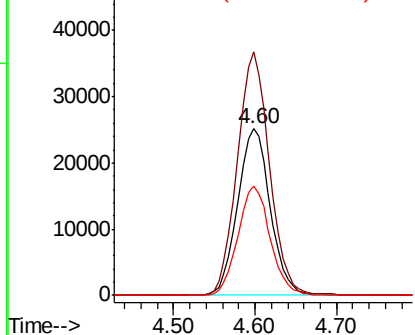
cis-1,2-Dichloroethene
Concen: 25.978 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

Instrument :
MSVOA_X
ClientSampleId :
DUP-0505-190404

Tot Ion: 96 Resp: 69689
Ion Ratio Lower Upper
96 100
61 144.6 0.0 327.6
98 65.1 0.0 128.6



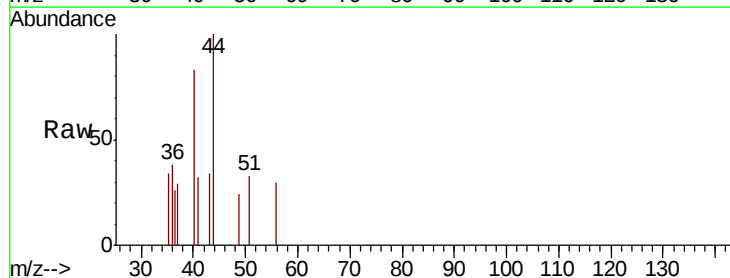
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



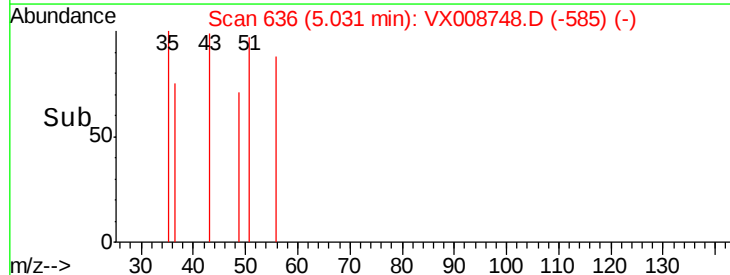
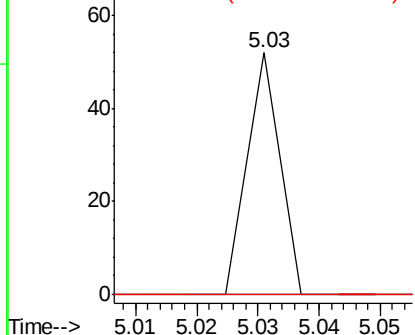
#28

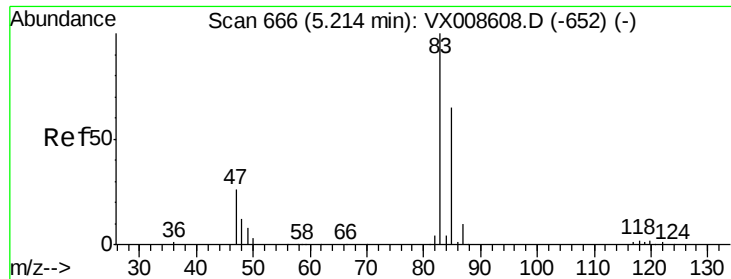
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 636
Delta R.T. 0.01 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

Tgt Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



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

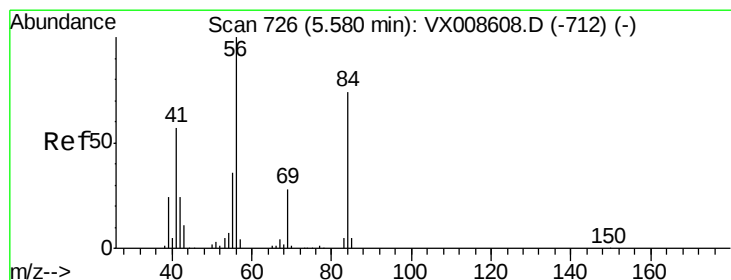
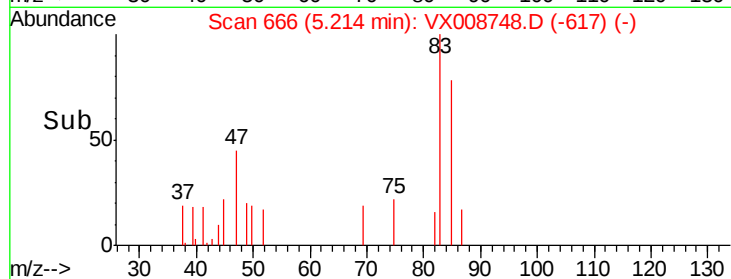
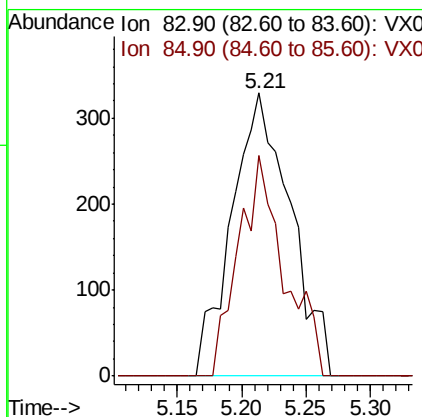
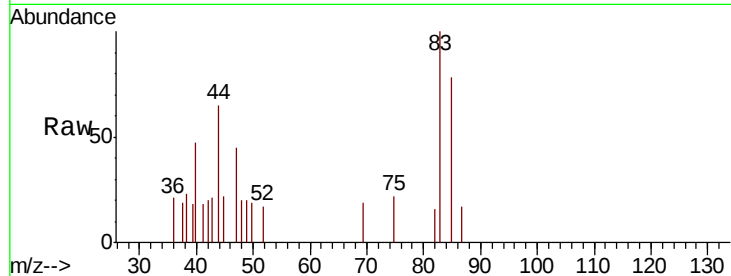




#30
Chloroform
Concen: 0.247 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

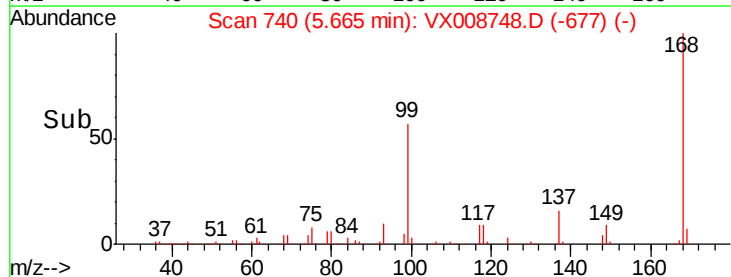
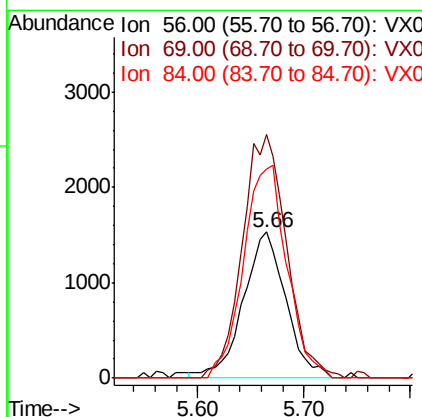
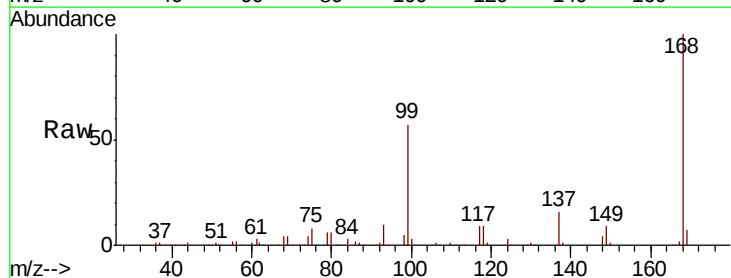
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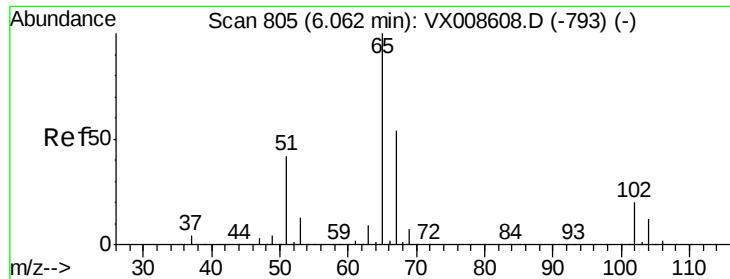
Tot Ion: 83 Resp: 1040
Ion Ratio Lower Upper
83 100
85 77.8 52.1 78.1



#31
Cyclohexane
Concen: 0.914 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.08 min
Lab File: VX008748.D
Acq: 08 Apr 2019 16:24

Tgt Ion: 56 Resp: 4299
Ion Ratio Lower Upper
56 100
69 166.8 22.6 33.8#
84 143.1 59.3 88.9#

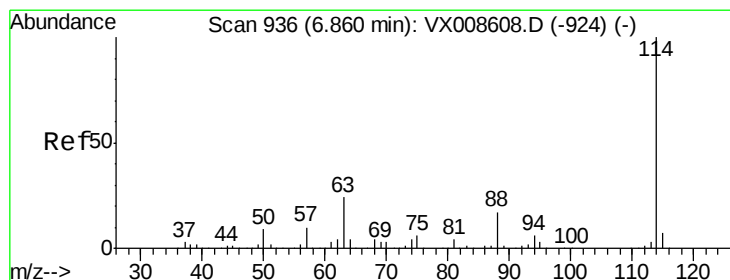
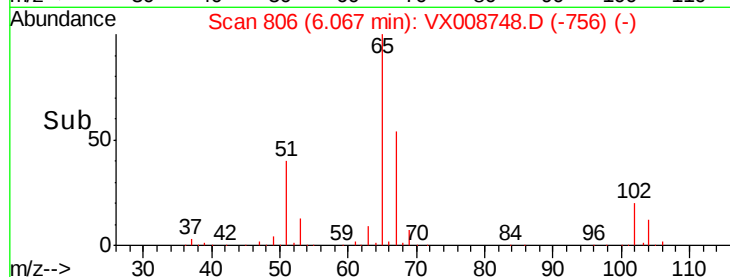
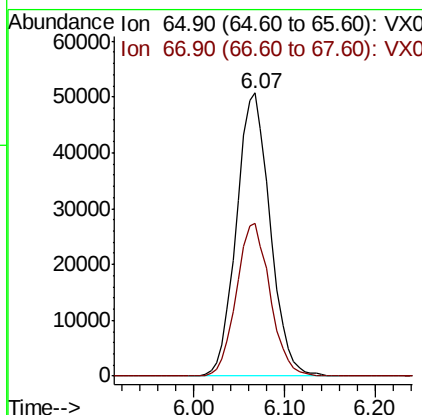
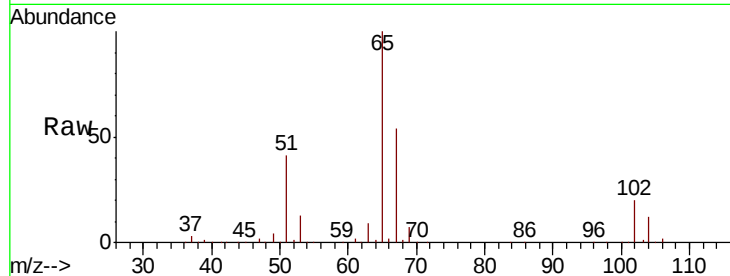




#33
 1,2-Dichloroethane-d4
 Concen: 47.979 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX008748.D
 Acq: 08 Apr 2019 16:24

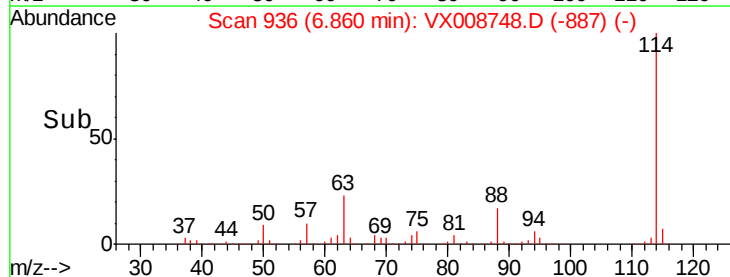
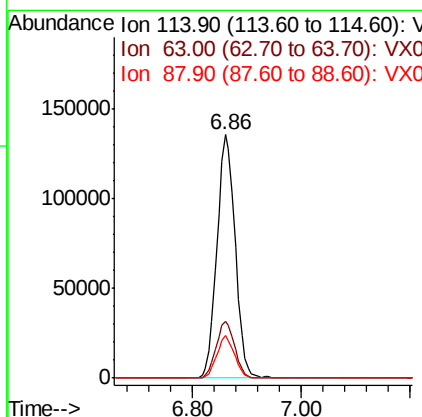
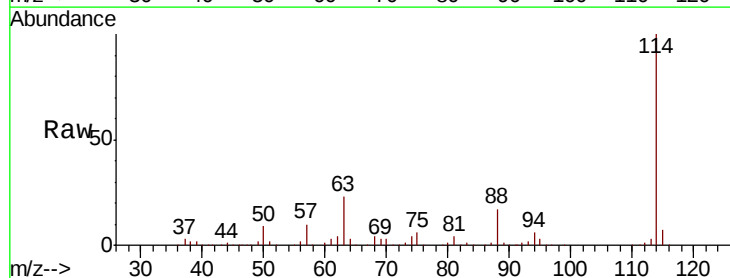
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0505-190404

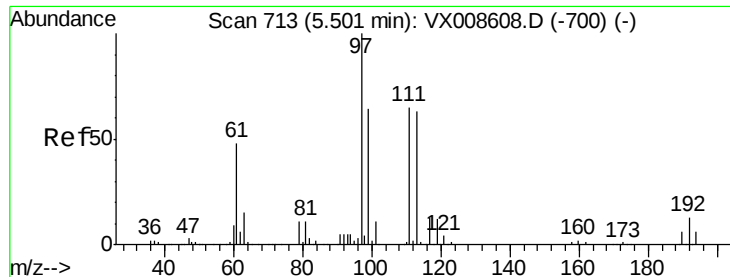
Tot Ion: 65 Resp: 130573
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008748.D
 Acq: 08 Apr 2019 16:24

Tgt Ion: 114 Resp: 315748
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 47.2
 88 17.3 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.715 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

DUP-0505-190404

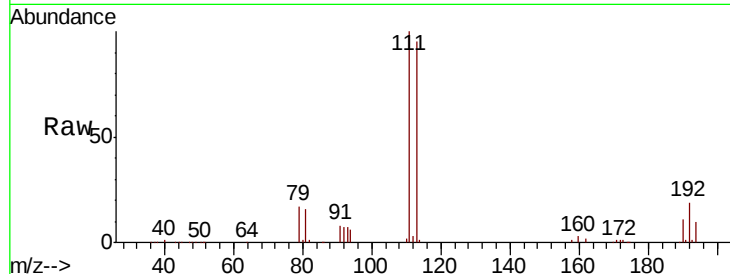
Tot Ion:113 Resp: 94306

Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.2

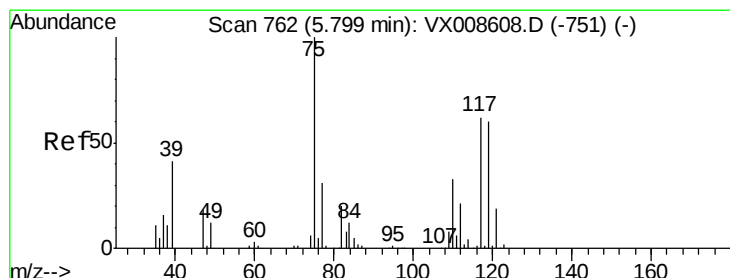
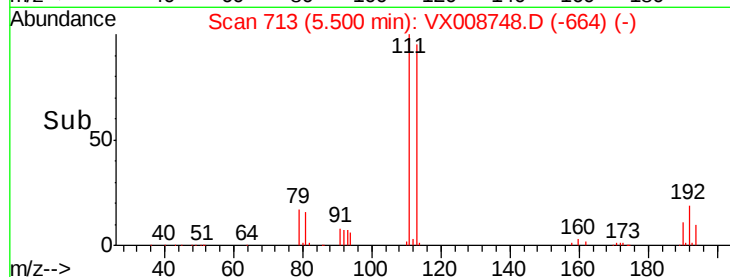
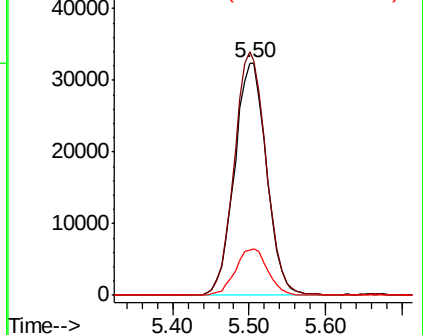
192 20.1 16.1 24.1



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: 4.377 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

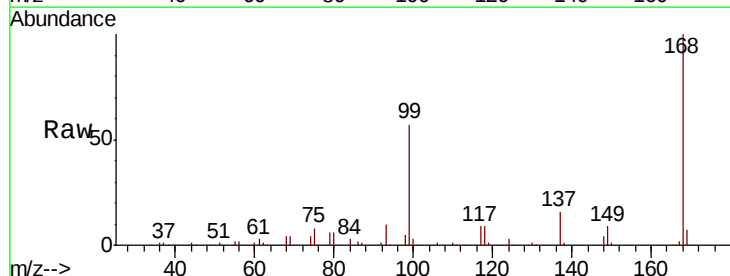
Tgt Ion: 75 Resp: 15107

Ion Ratio Lower Upper

75 100

110 8.6 16.4 49.2#

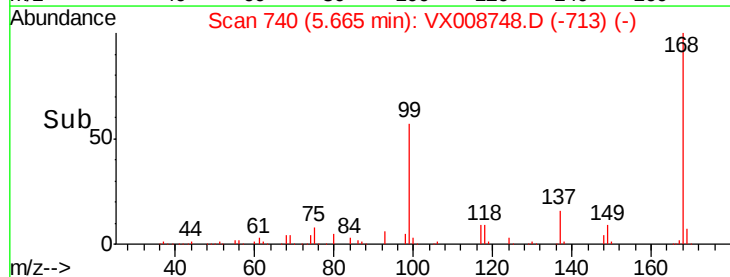
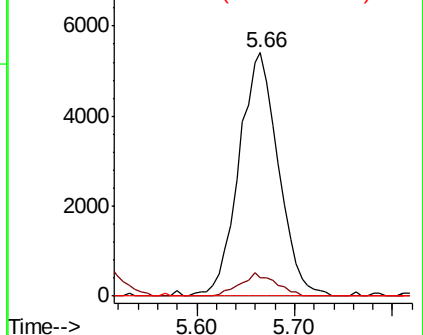
77 0.0 24.7 37.1#

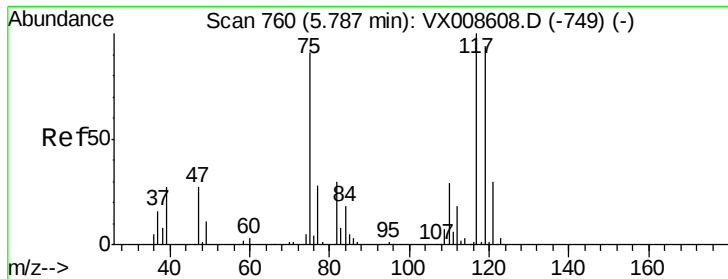


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.123 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

DUP-0505-190404

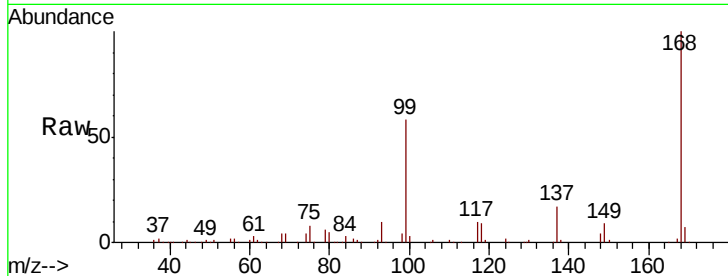
Tot Ion:117 Resp: 17490

Ion Ratio Lower Upper

117 100

119 5.2 75.0 112.6#

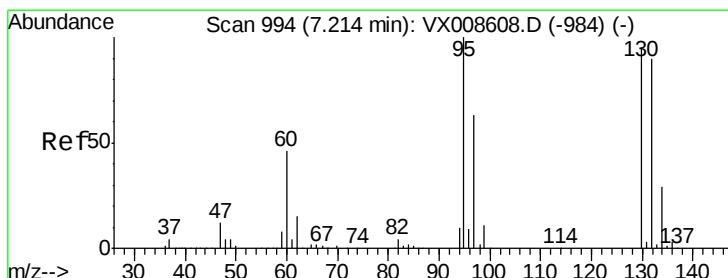
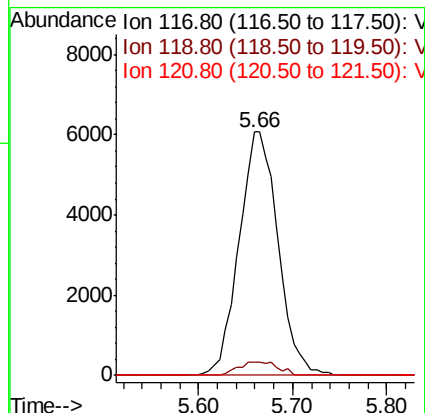
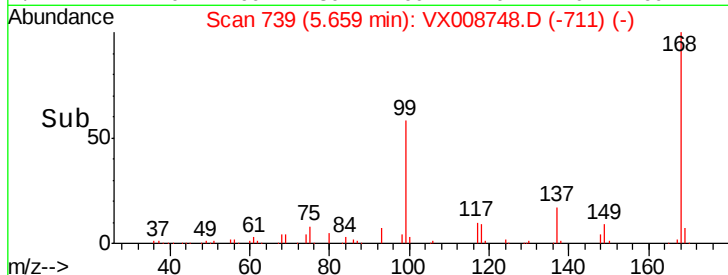
121 0.0 24.3 36.5#



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: 19.664 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008748.D

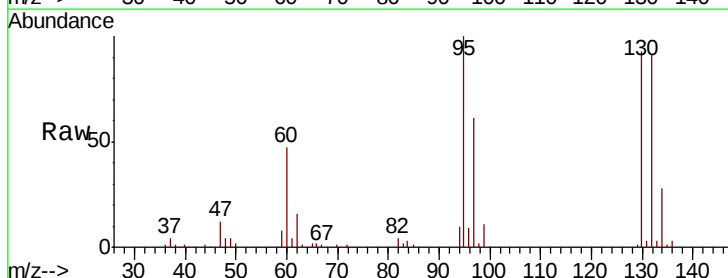
Acq: 08 Apr 2019 16:24

Tgt Ion:130 Resp: 47092

Ion Ratio Lower Upper

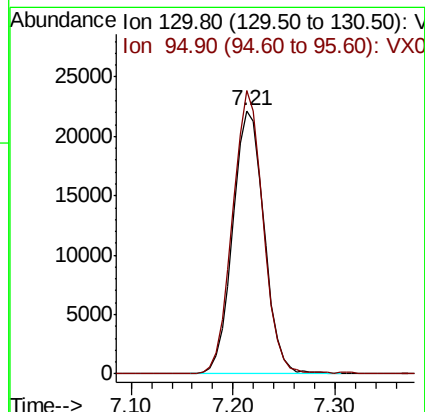
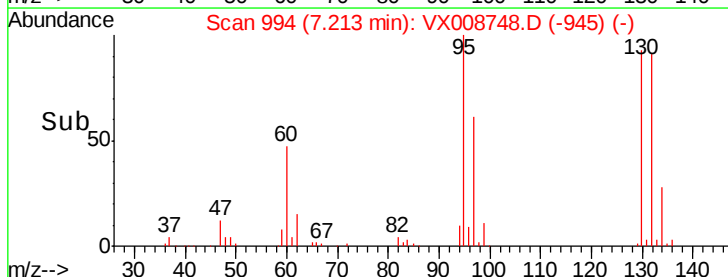
130 100

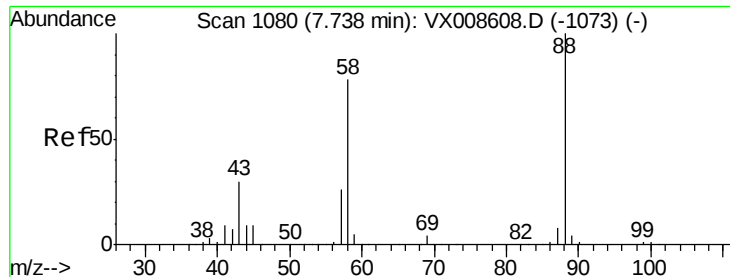
95 107.7 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

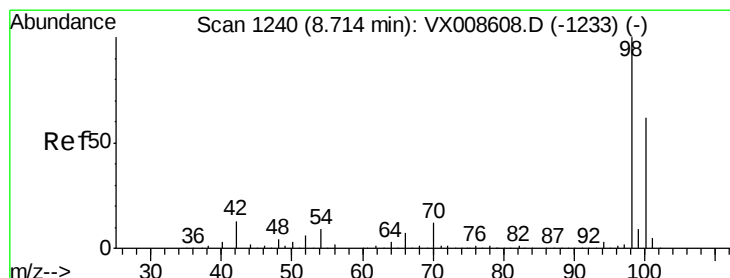
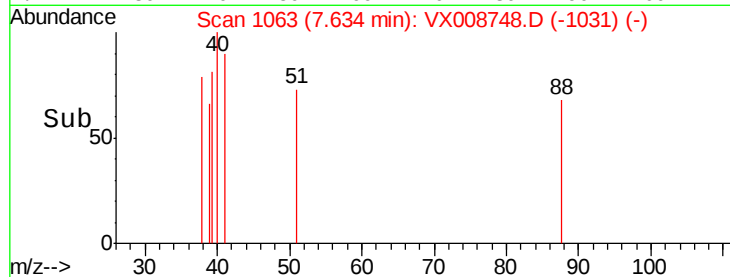
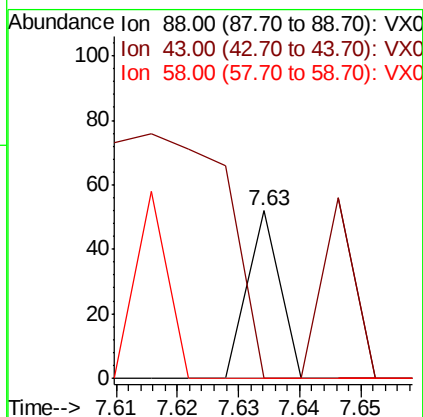
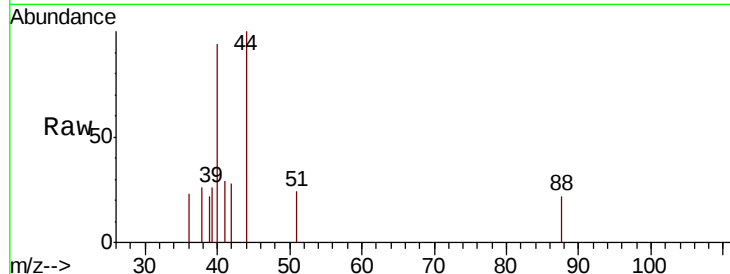




#49
 1,4-Dioxane
 Concen: 0.278 ug/l
 RT: 7.63 min Scan# 1063
 Delta R.T. -0.10 min
 Lab File: VX008748.D
 Acq: 08 Apr 2019 16:24

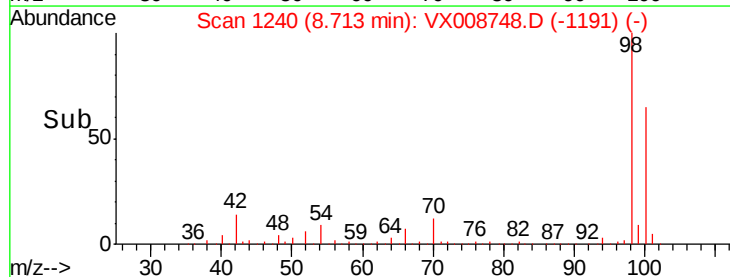
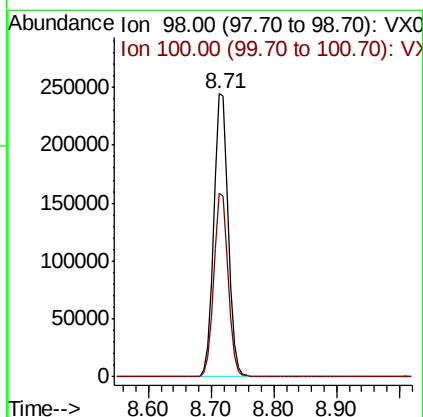
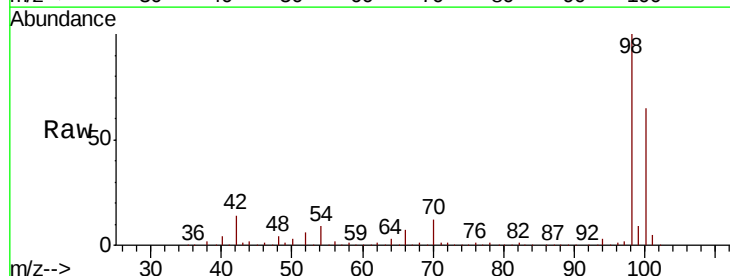
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0505-190404

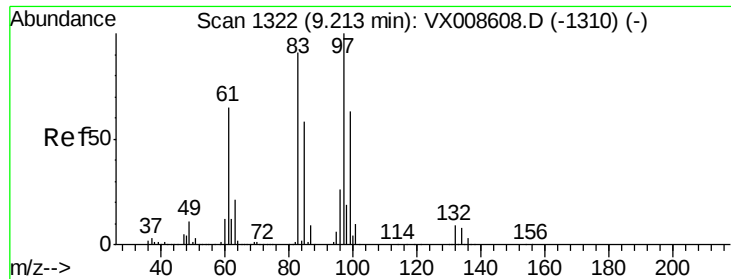
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 105.3 28.6 43.0#
 58 0.0 62.2 93.2#



#50
 Toluene-d8
 Concen: 48.353 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008748.D
 Acq: 08 Apr 2019 16:24

Tgt Ion: 98 Resp: 388674
 Ion Ratio Lower Upper
 98 100
 100 64.4 51.4 77.0





#55

1,1,2-Trichloroethane

Concen: 6.592 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.13 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

DUP-0505-190404

Tot Ion: 97 Resp: 16041

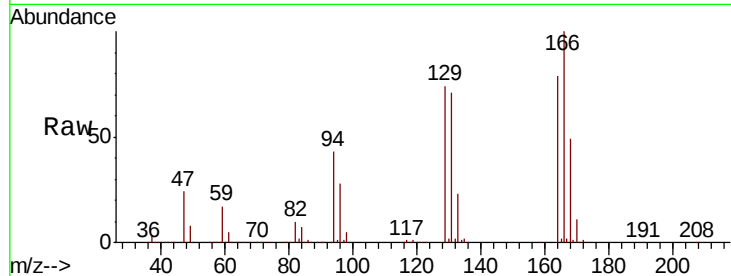
Ion Ratio Lower Upper

97 100

83 318.2 73.2 109.8#

85 43.6 46.6 69.8#

99 15.0 50.1 75.1#



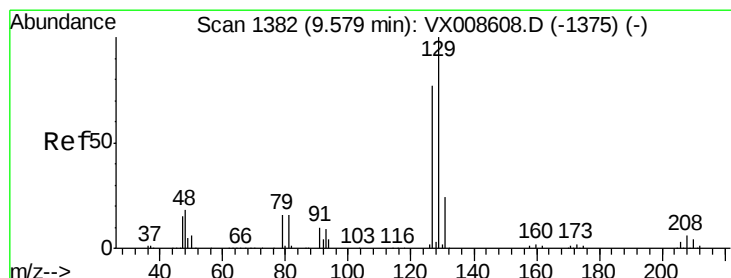
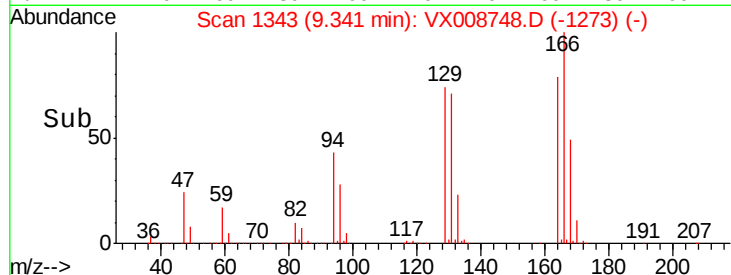
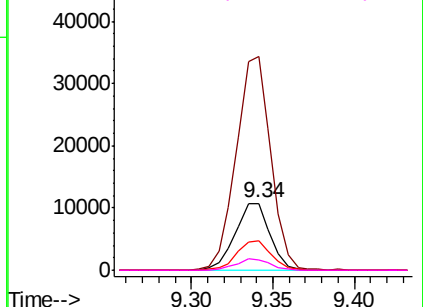
Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 822.080 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX008748.D

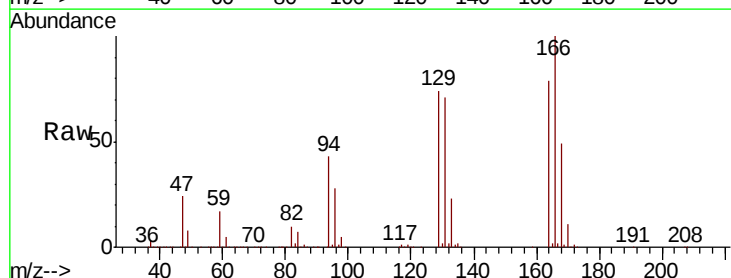
Acq: 08 Apr 2019 16:24

Tgt Ion:129 Resp: 1884985

Ion Ratio Lower Upper

129 100

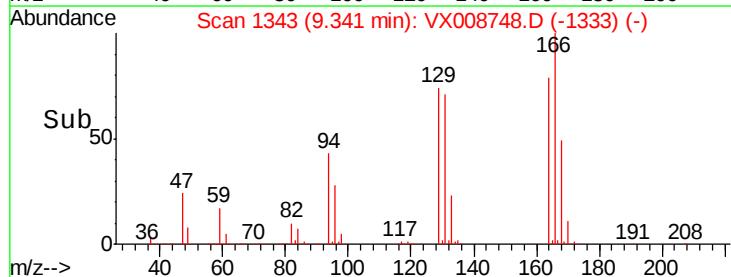
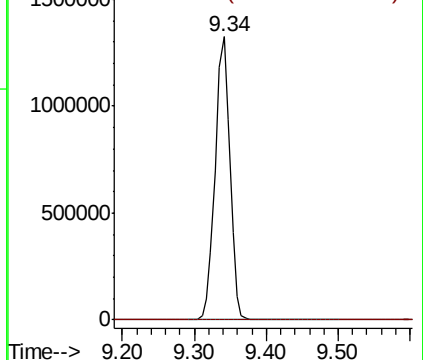
127 0.0 38.5 115.3#

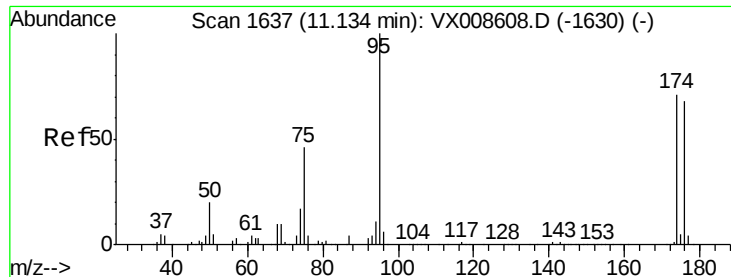


Abundance

Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 44.949 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

DUP-0505-190404

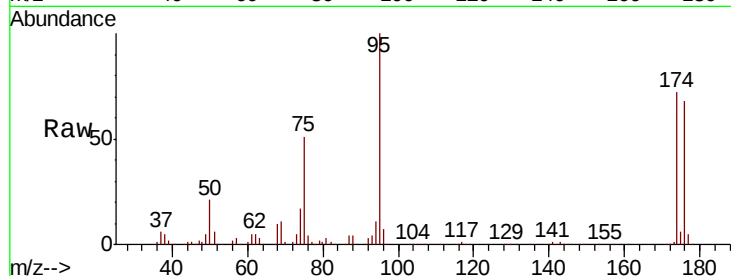
Tot Ion: 95 Resp: 128126

Ion Ratio Lower Upper

95 100

174 77.4 0.0 151.8

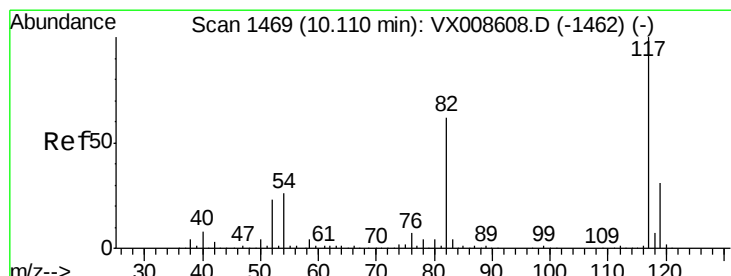
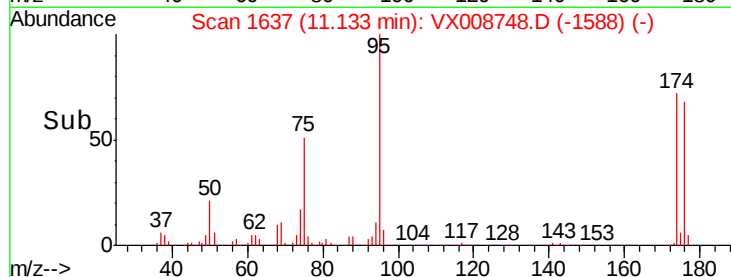
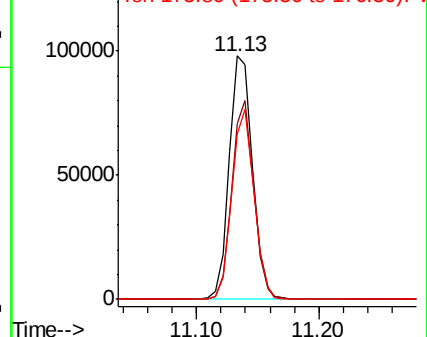
176 74.5 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

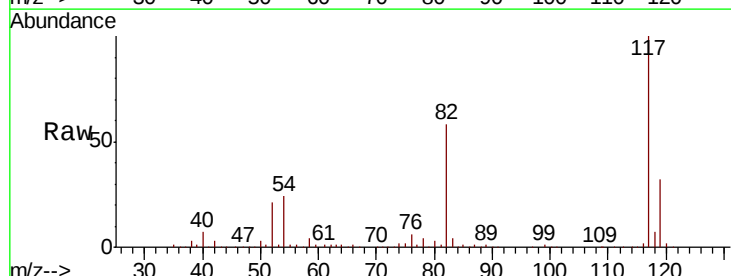
Tgt Ion: 117 Resp: 265150

Ion Ratio Lower Upper

117 100

82 58.1 49.6 74.4

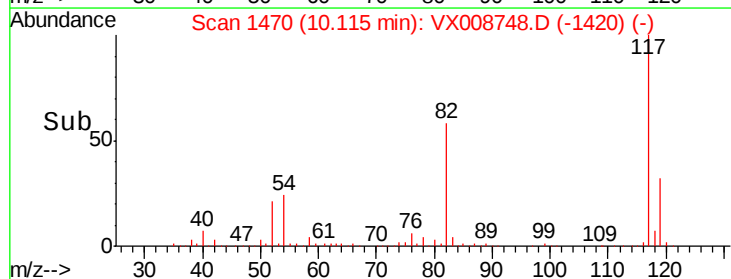
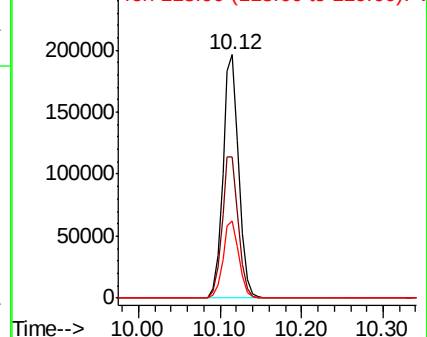
119 31.7 25.0 37.4

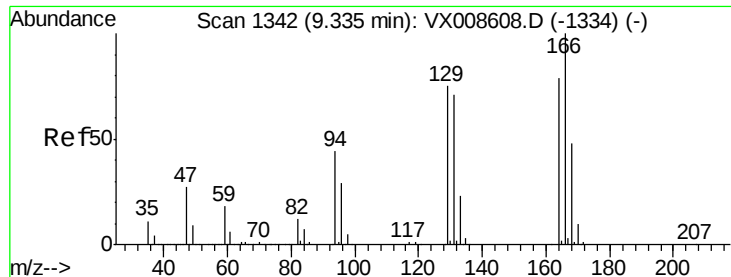


Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)





#64

Tetrachloroethene

Concen: 1010.580 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

DUP-0505-190404

Tot Ion:164 Resp: 1985269

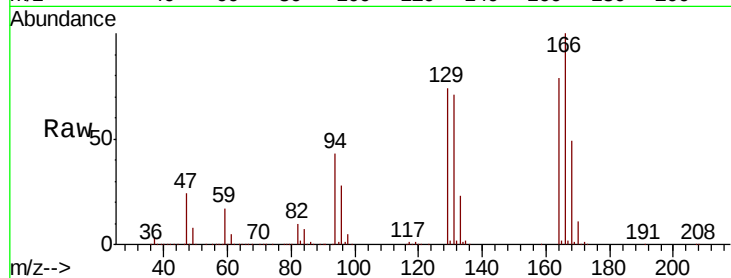
Ion Ratio Lower Upper

164 100

166 127.0 101.0 151.6

129 93.7 75.8 113.8

131 89.7 71.8 107.8



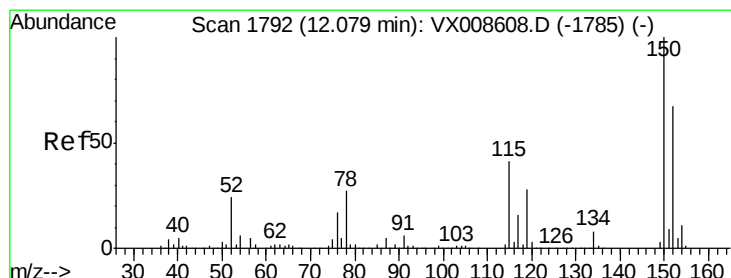
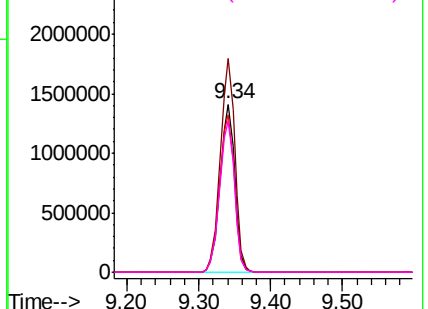
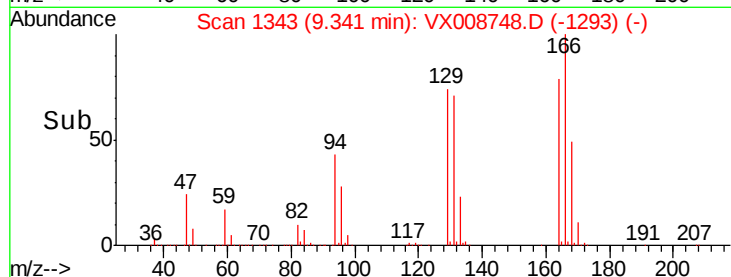
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX008748.D

Acq: 08 Apr 2019 16:24

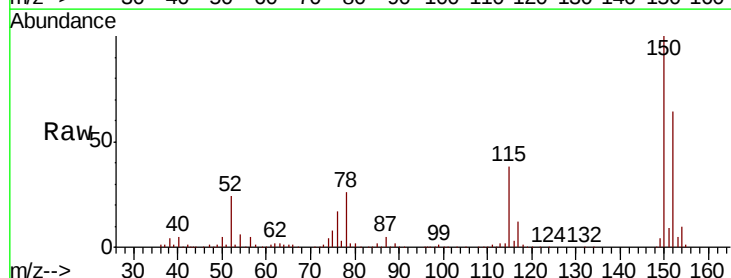
Tgt Ion:152 Resp: 111580

Ion Ratio Lower Upper

152 100

115 60.5 43.5 130.5

150 156.4 0.0 348.8

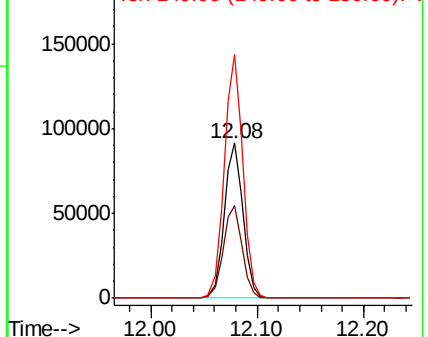
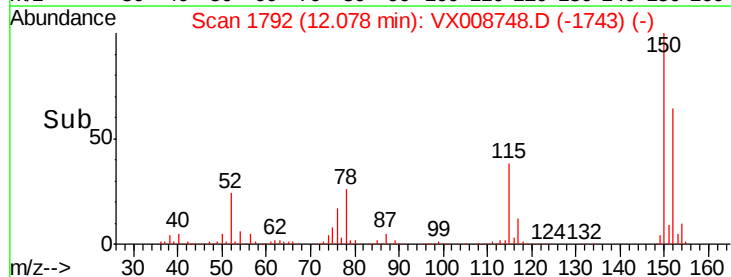


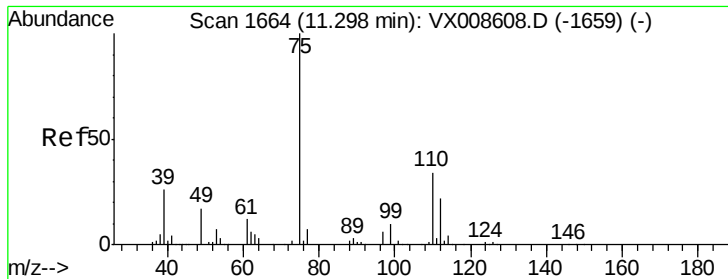
Abundance

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: 21.007 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.17 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

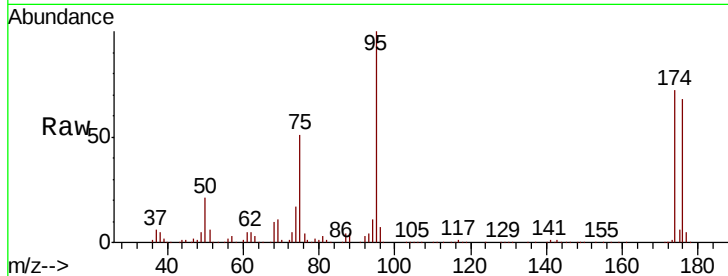
DUP-0505-190404

Tot Ion: 75 Resp: 64392

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

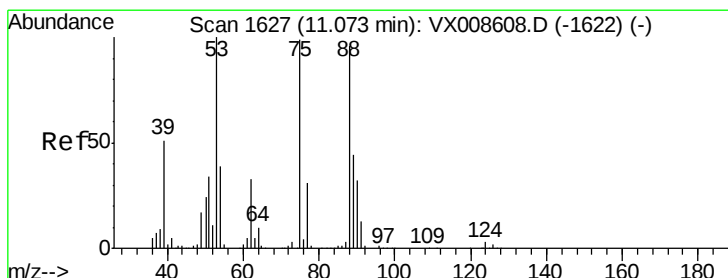
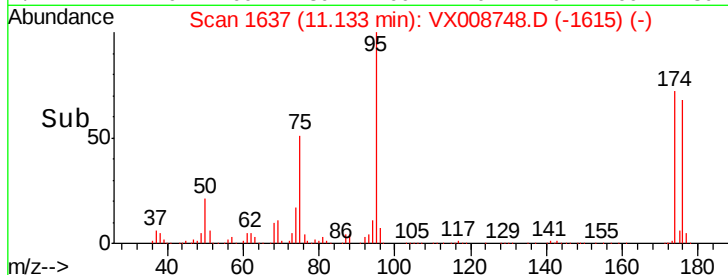
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 57.908 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008748.D

Acq: 08 Apr 2019 16:24

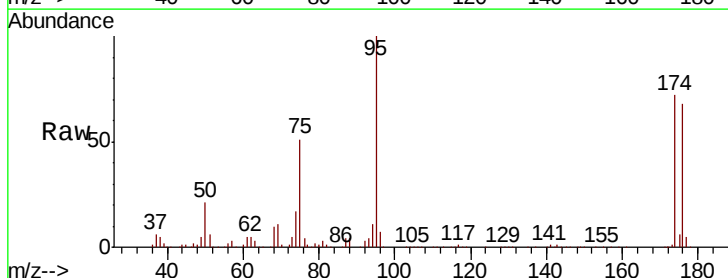
Tgt Ion: 75 Resp: 64392

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

60000

40000

20000

0

Time-->

11.10 11.20

