

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009325.D
 Acq On : 03 May 2019 21:20
 Operator : JC/SP
 Sample : K2687-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0520-190502

Quant Time: May 03 23:22:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	197442	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	319111	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118769	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	132158	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
35) Dibromofluoromethane	5.50	113	97226	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.71	98	399581	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
62) 4-Bromofluorobenzene	11.13	95	133993	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

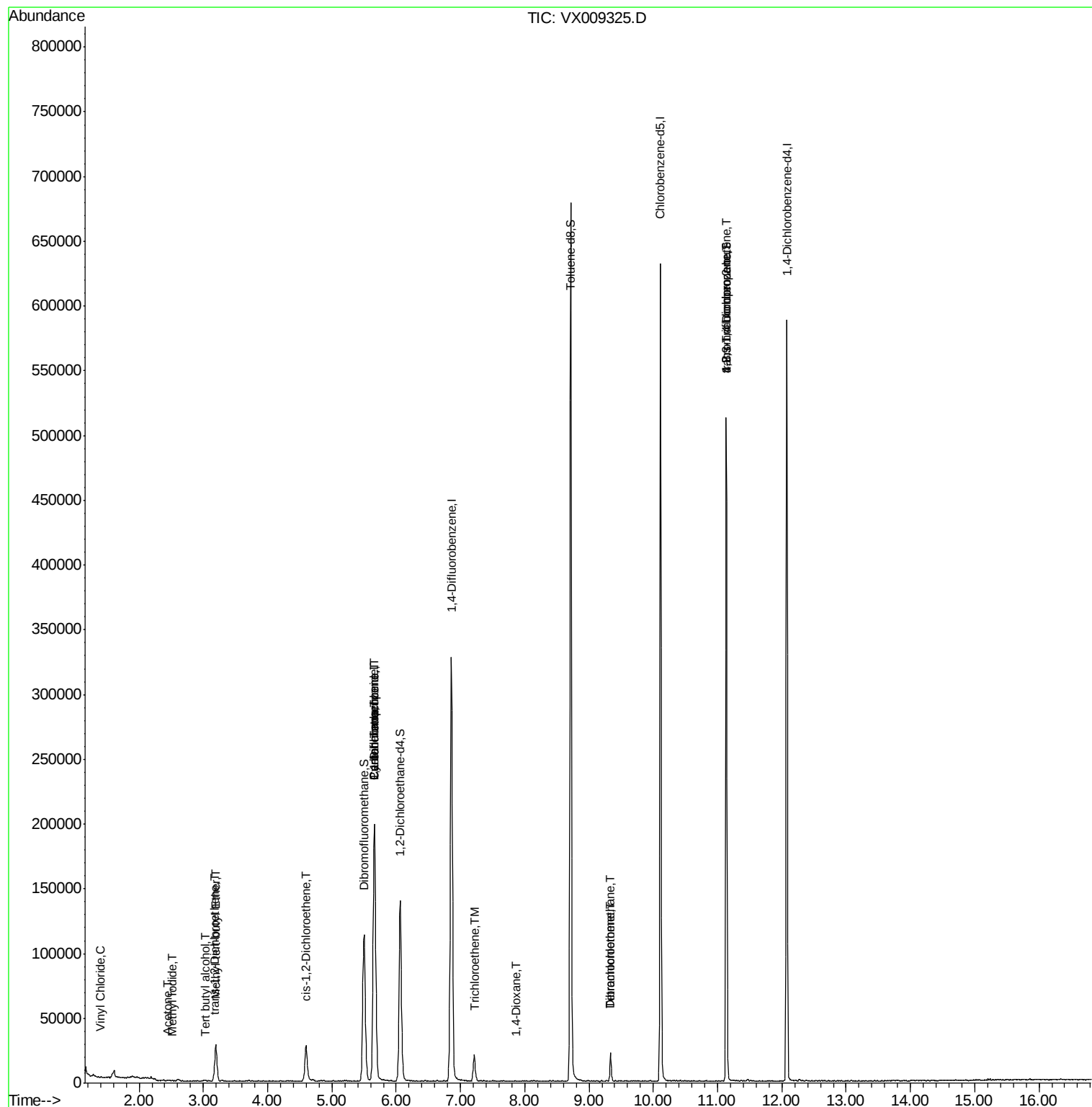
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	727	0.300	ug/l #	74
10) Methyl Iodide	2.52	142	144	4.655	ug/l #	59
11) Tert butyl alcohol	3.04	59	211	0.338	ug/l #	73
16) Acetone	2.44	43	391	0.270	ug/l	91
19) Methyl tert-butyl Ether	3.20	73	30426	4.229	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	497	0.247	ug/l #	72
27) cis-1,2-Dichloroethene	4.59	96	16272	6.785	ug/l	91
28) Bromochloromethane	5.01	49	126	Below Cal	#	20
31) Cyclohexane	5.66	56	4195	1.053	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14868	5.014	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18458	6.851	ug/l #	15
44) Trichloroethene	7.21	130	7770	3.502	ug/l	96
49) 1,4-Dioxane	7.87	88	19	0.286	ug/l #	1
60) Dibromochloromethane	9.34	129	3816	1.717	ug/l #	11
64) Tetrachloroethene	9.34	164	4324	2.249	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	67090	24.352	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67090	62.308	ug/l #	10

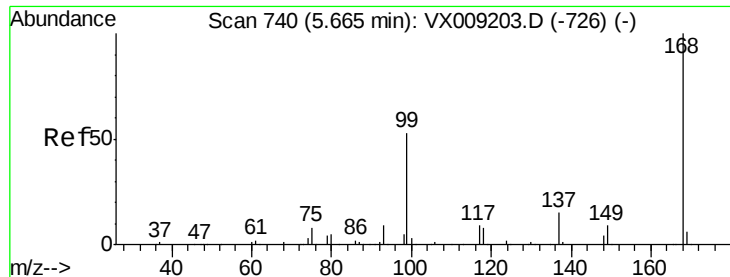
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

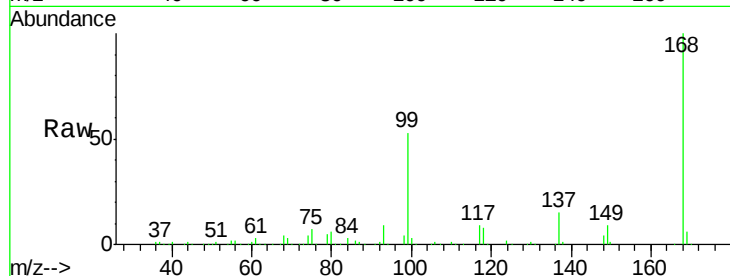
DUP-0520-190502

Tot Ion:168 Resp: 197442

Ion Ratio Lower Upper

168 100

99 52.8 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

80000

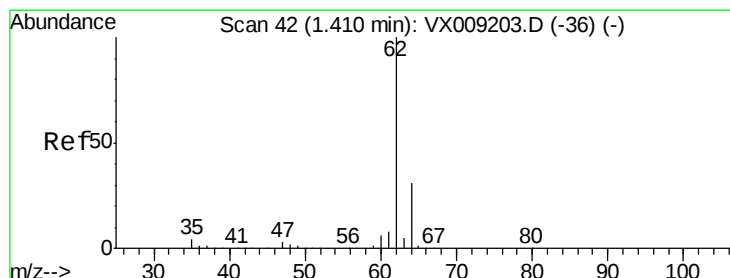
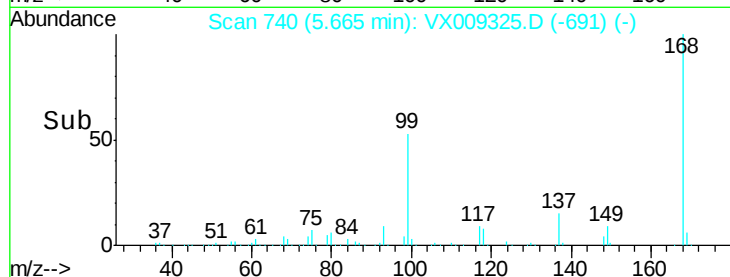
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009325.D

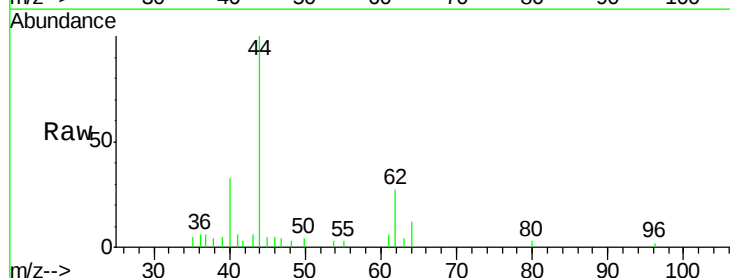
Acq: 03 May 2019 21:20

Tgt Ion: 62 Resp: 727

Ion Ratio Lower Upper

62 100

64 44.8 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

600

500

400

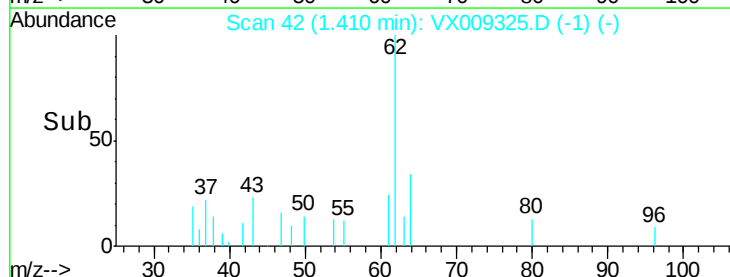
300

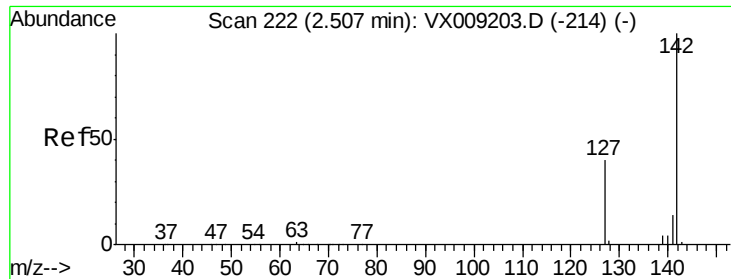
200

100

0

Time--> 1.35 1.40 1.45

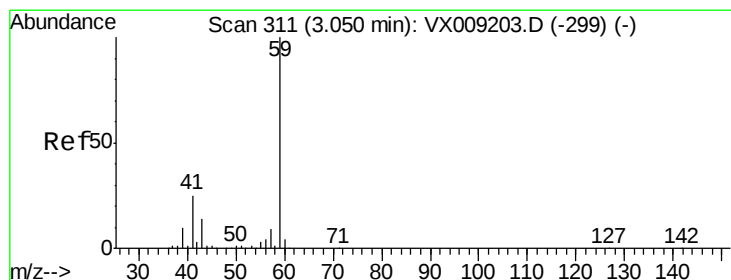
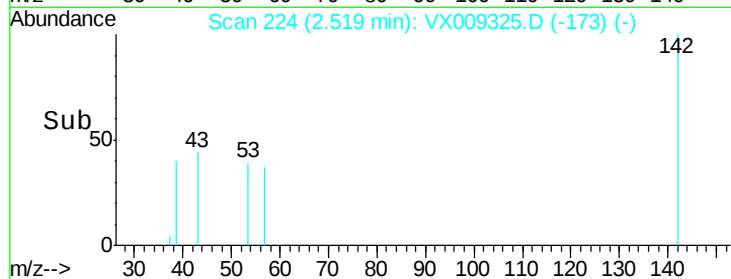
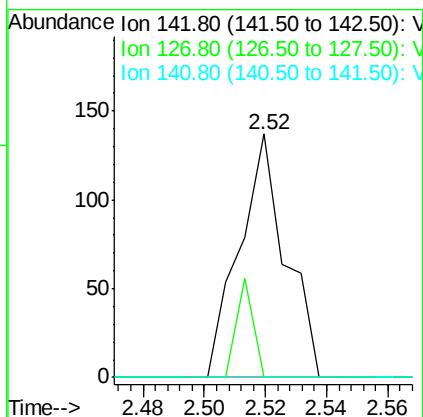
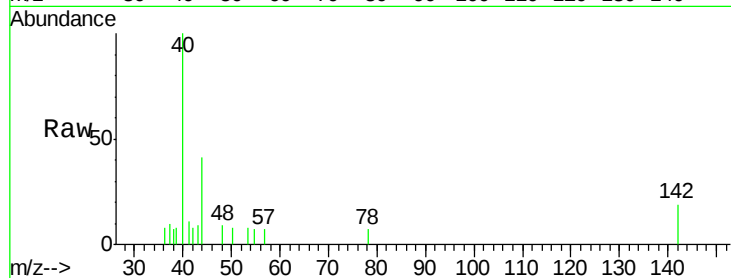




#10
Methvl Iodide
Concen: 4.655 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009325.D
Acq: 03 May 2019 21:20

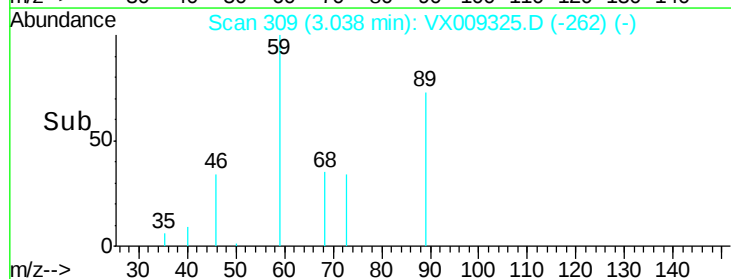
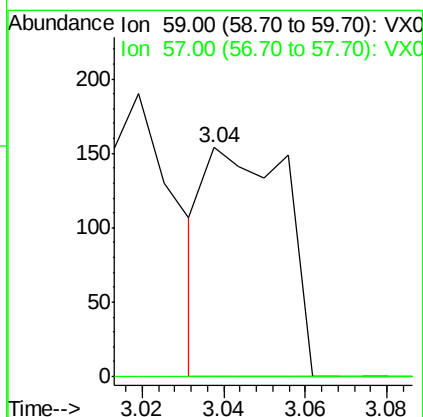
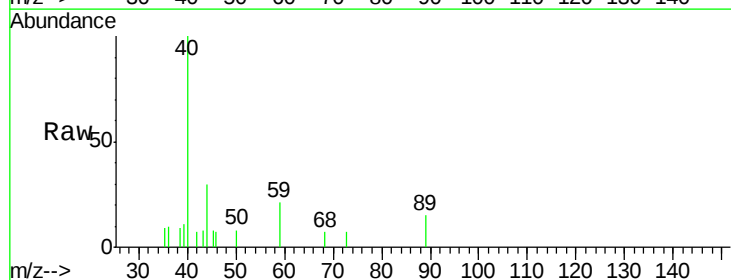
Instrument :
MSVOA_X
ClientSampleId :
DUP-0520-190502

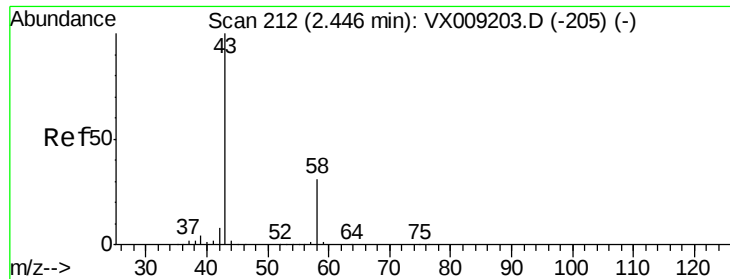
Tot Ion:142 Resp: 144
Ion Ratio Lower Upper
142 100
127 13.9 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.338 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009325.D
Acq: 03 May 2019 21:20

Tgt Ion: 59 Resp: 211
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 0.270 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

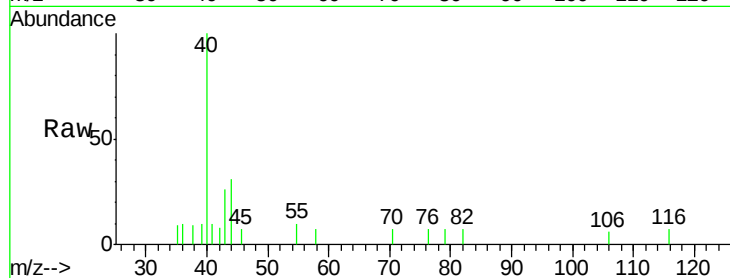
DUP-0520-190502

Tot Ion: 43 Resp: 391

Ion Ratio Lower Upper

43 100

58 25.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

200

150

100

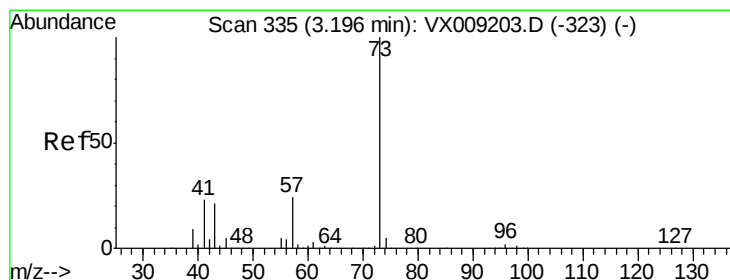
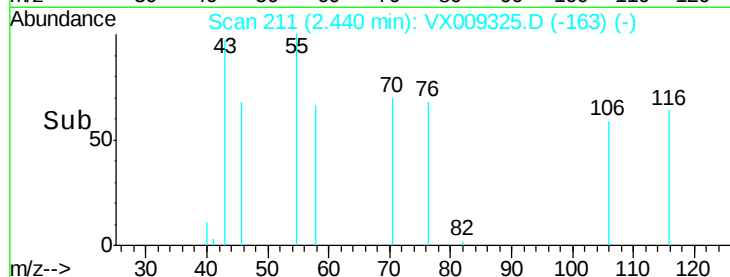
50

0

2.40

2.45

Time-->



#19

Methyl tert-butyl Ether

Concen: 4.229 ug/l

RT: 3.20 min Scan# 335

Delta R.T. -0.00 min

Lab File: VX009325.D

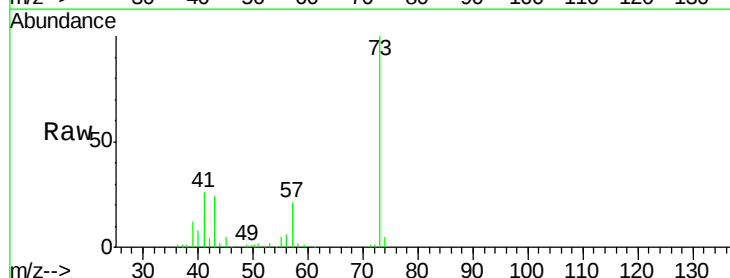
Acq: 03 May 2019 21:20

Tgt Ion: 73 Resp: 30426

Ion Ratio Lower Upper

73 100

57 21.5 19.3 28.9



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

15000

10000

5000

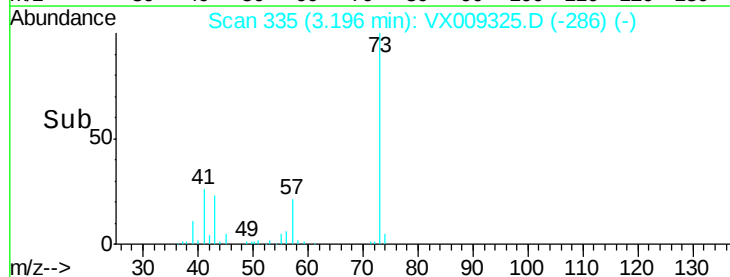
0

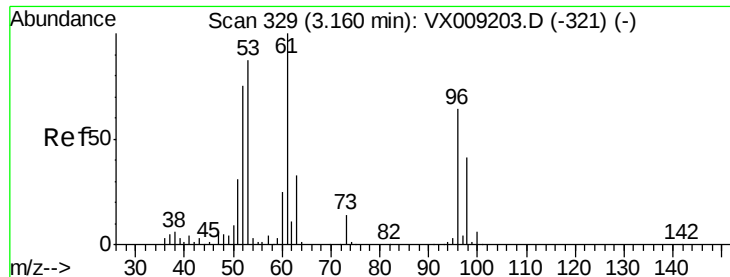
3.10

3.20

3.30

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.247 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0520-190502

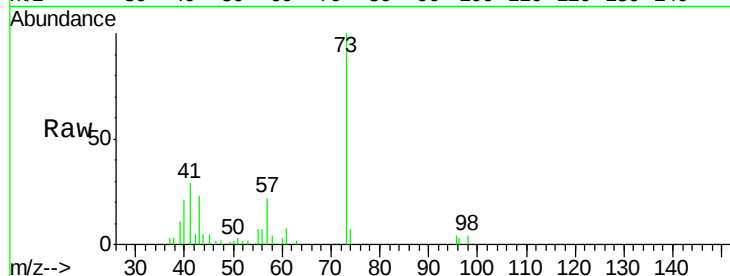
Tot Ion: 96 Resp: 497

Ion Ratio Lower Upper

96 100

61 108.4 124.5 186.7#

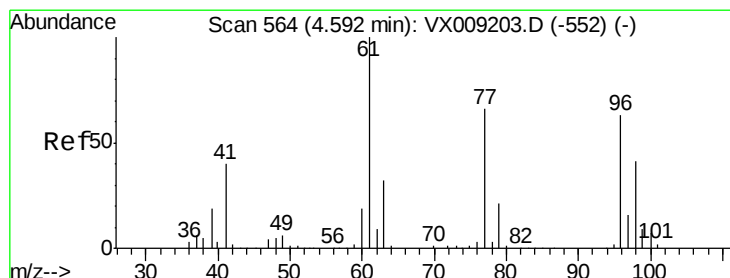
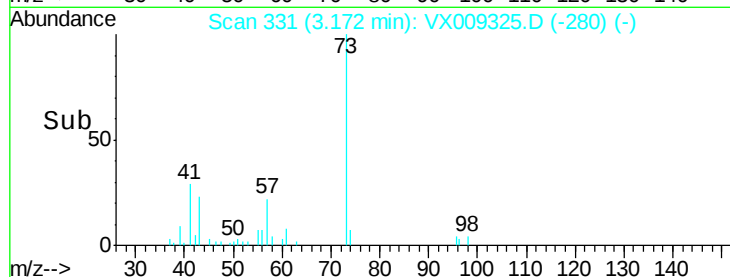
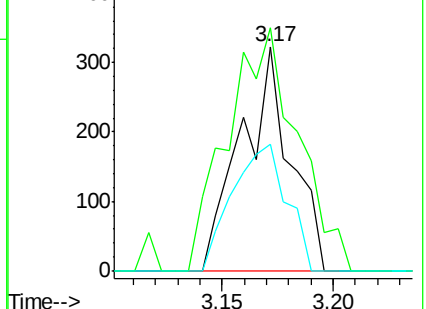
98 56.3 50.4 75.6



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



#27

cis-1,2-Dichloroethene

Concen: 6.785 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

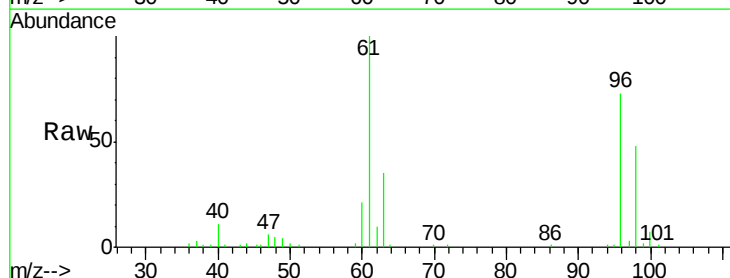
Tgt Ion: 96 Resp: 16272

Ion Ratio Lower Upper

96 100

61 144.7 0.0 324.0

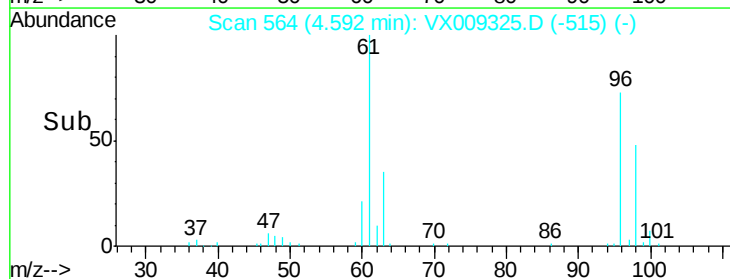
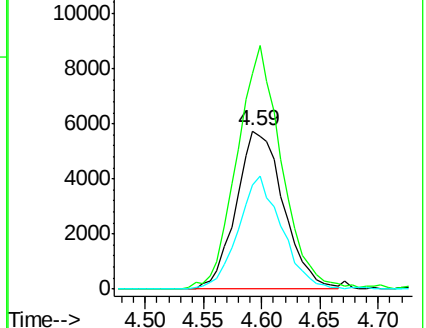
98 65.6 0.0 130.4

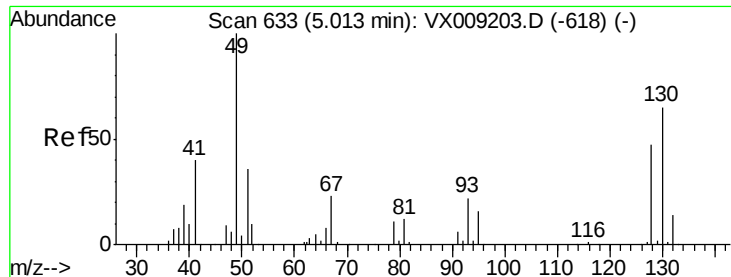


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0520-190502

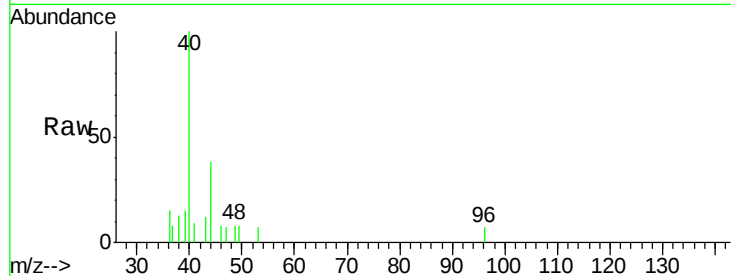
Tot Ion: 49 Resp: 126

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

5.01

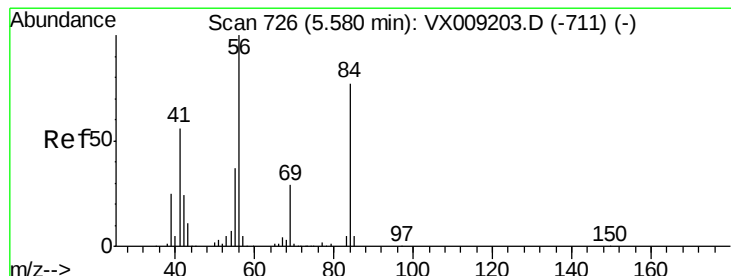
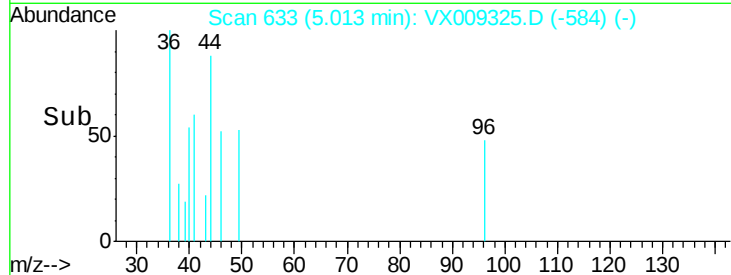
100

50

0

4.98 5.00 5.02 5.04

Time-->



#31

Cyclohexane

Concen: 1.053 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

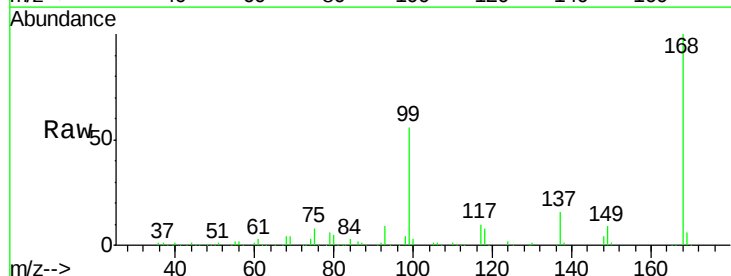
Tgt Ion: 56 Resp: 4195

Ion Ratio Lower Upper

56 100

69 208.9 23.4 35.0#

84 170.5 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

5.66

4000

3000

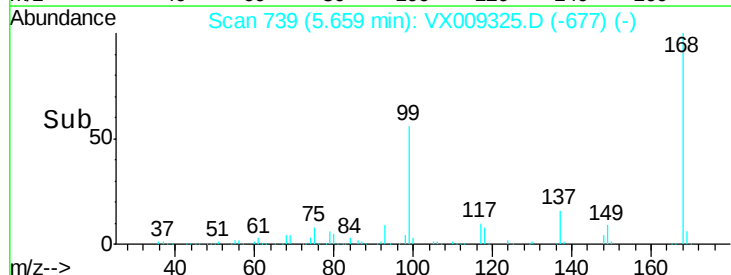
2000

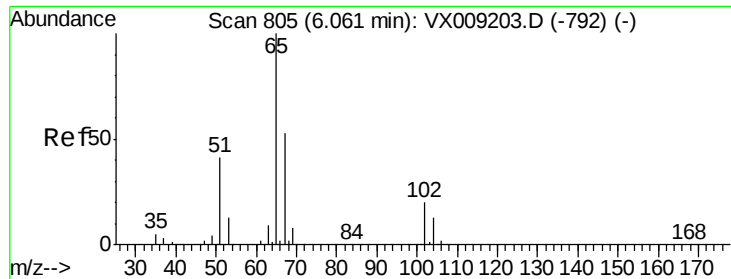
1000

0

5.60 5.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 49.032 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

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ClientSampleId :

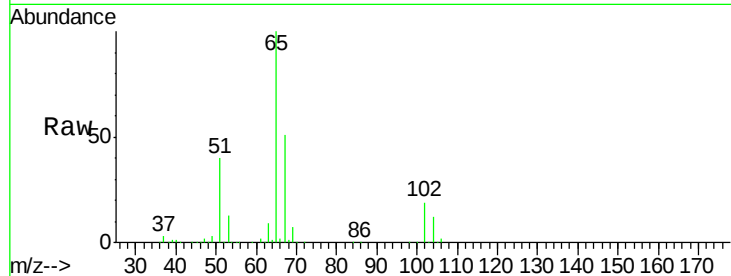
DUP-0520-190502

Tot Ion: 65 Resp: 132158

Ion Ratio Lower Upper

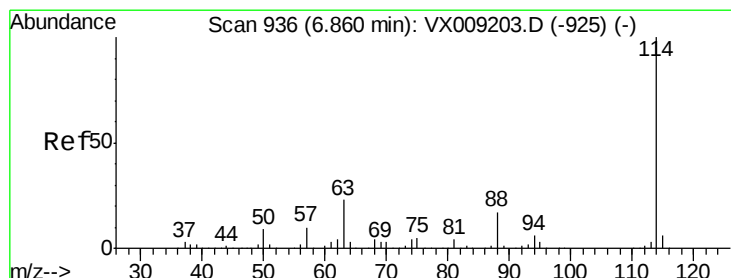
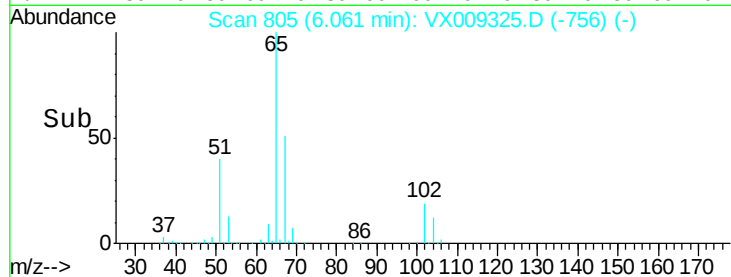
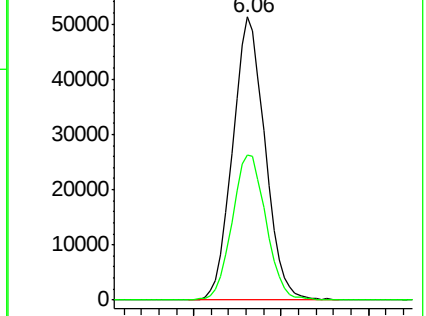
65 100

67 53.4 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: VX009325.D

Acq: 03 May 2019 21:20

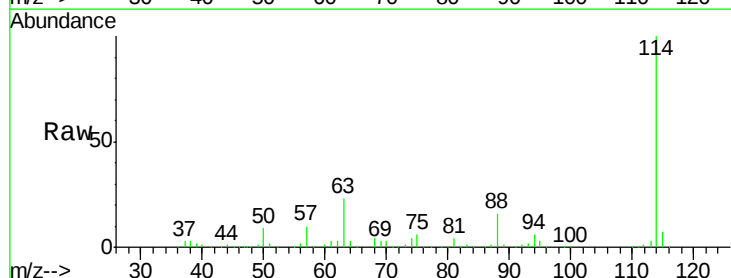
Tgt Ion: 114 Resp: 319111

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

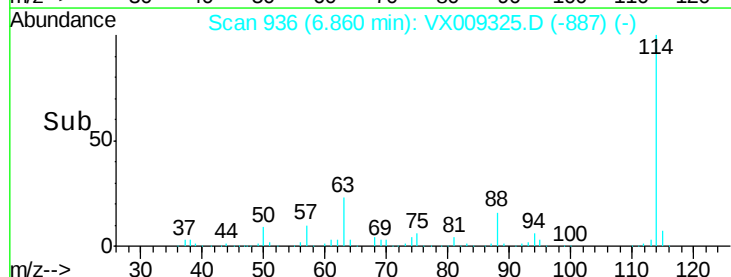
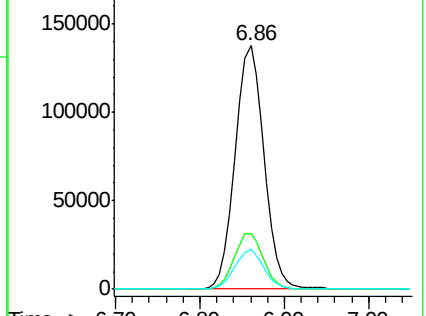
88 16.3 0.0 33.2

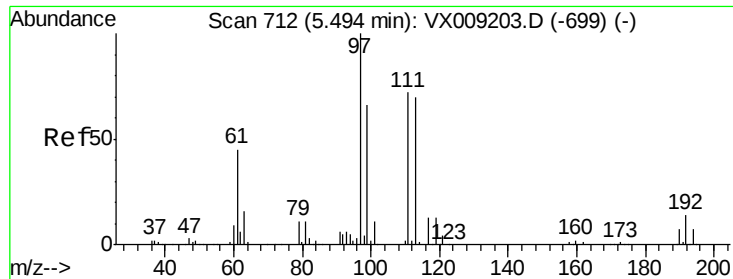


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.466 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009325.D

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DUP-0520-190502

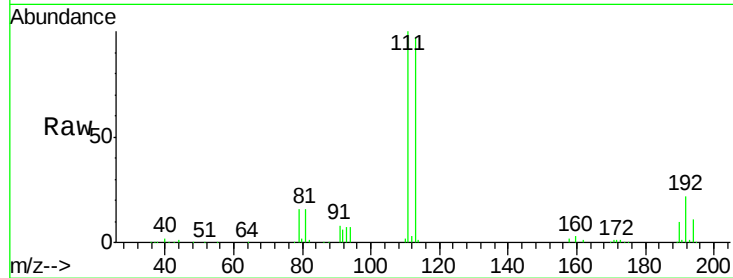
Tot Ion:113 Resp: 97226

Ion Ratio Lower Upper

113 100

111 102.1 82.8 124.2

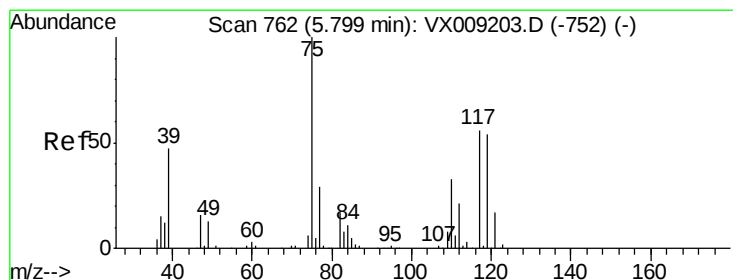
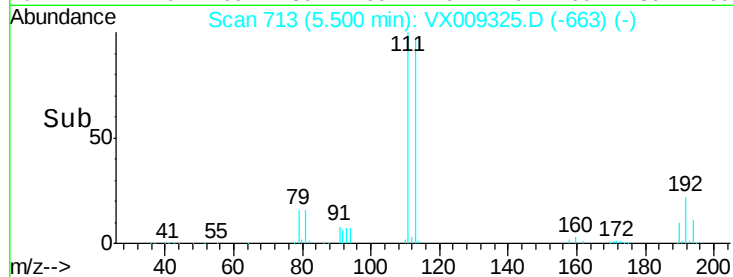
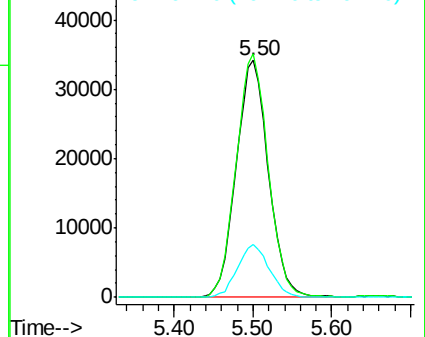
192 22.2 17.0 25.6



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: 5.014 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

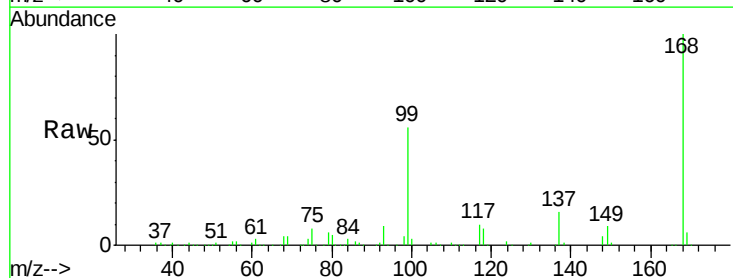
Tgt Ion: 75 Resp: 14868

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.6#

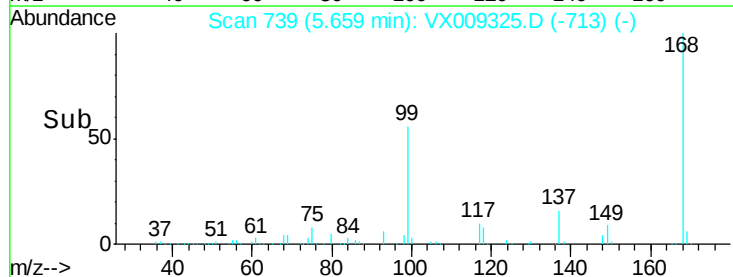
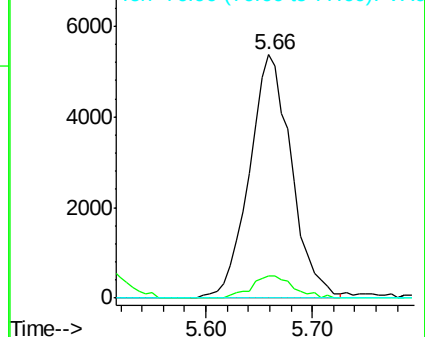
77 0.0 24.8 37.2#

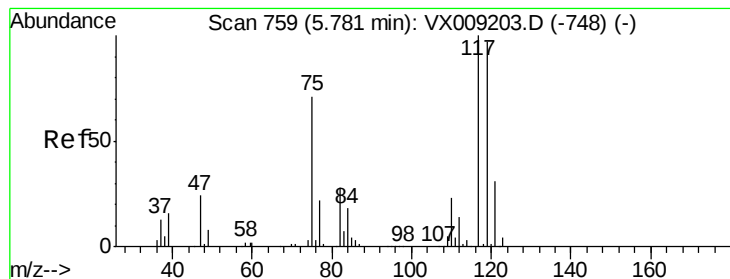


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.851 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0520-190502

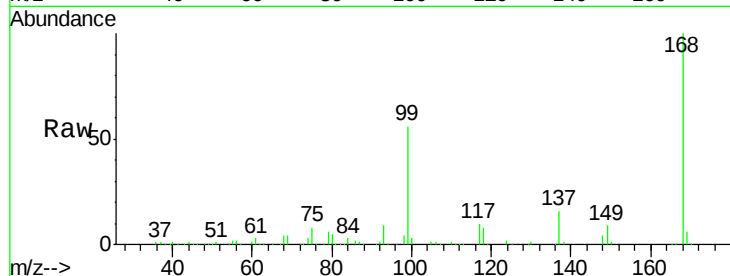
Tot Ion:117 Resp: 18458

Ion Ratio Lower Upper

117 100

119 4.6 77.5 116.3#

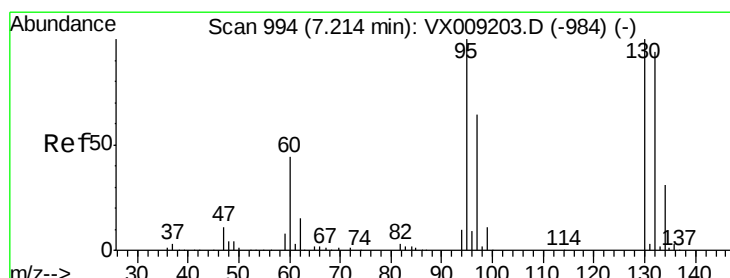
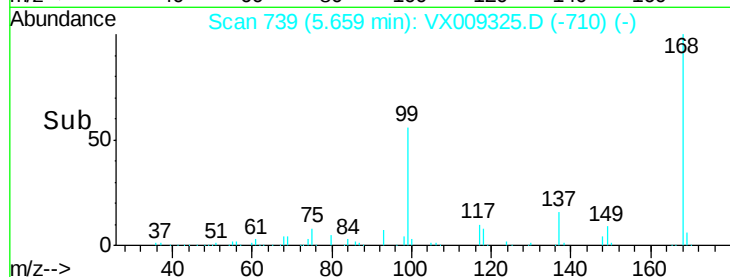
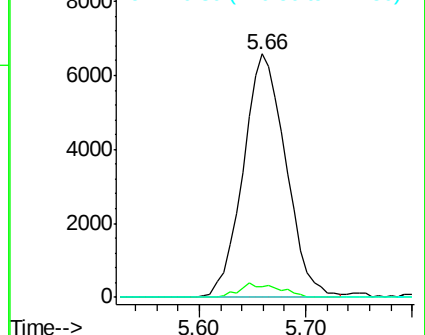
121 0.0 24.7 37.1#



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: 3.502 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009325.D

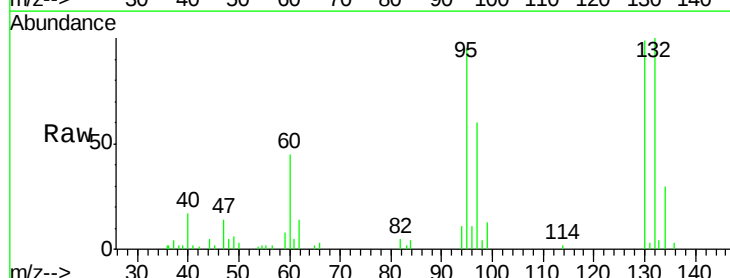
Acq: 03 May 2019 21:20

Tgt Ion:130 Resp: 7770

Ion Ratio Lower Upper

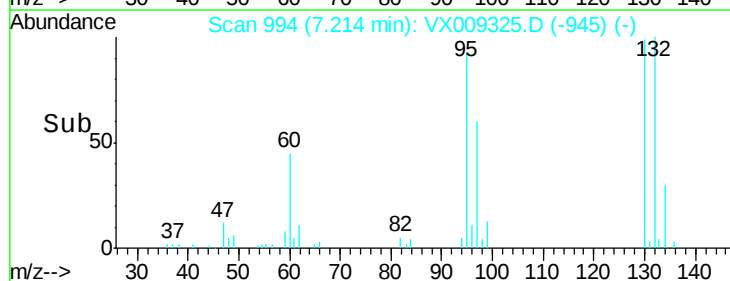
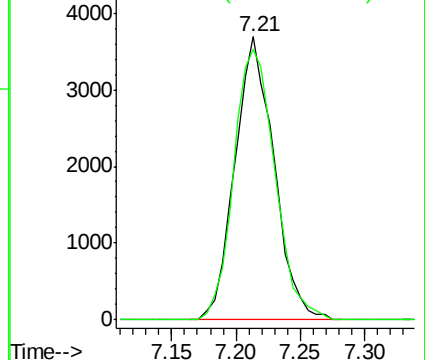
130 100

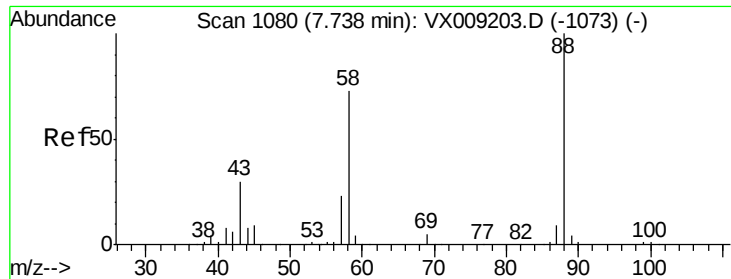
95 95.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

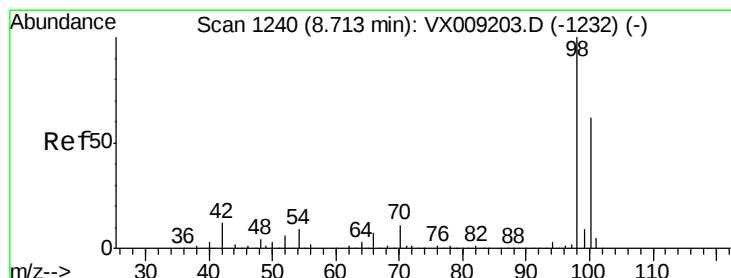
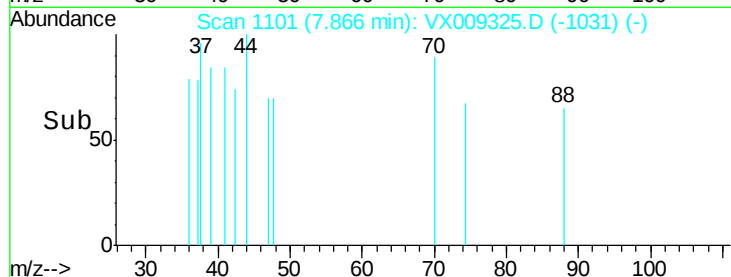
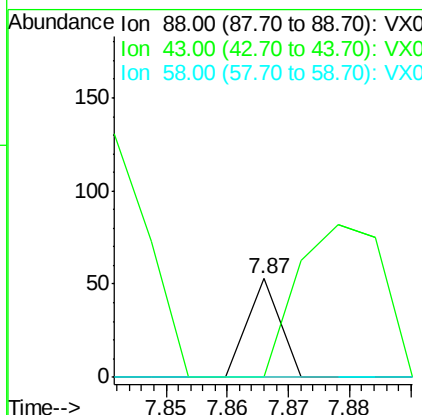
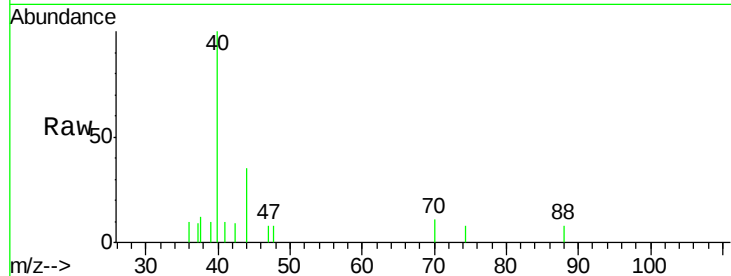




#49
 1,4-Dioxane
 Concen: 0.286 ug/l
 RT: 7.87 min Scan# 1101
 Delta R.T. 0.13 min
 Lab File: VX009325.D
 Acq: 03 May 2019 21:20

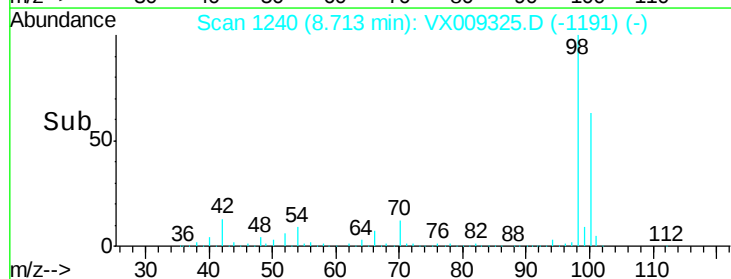
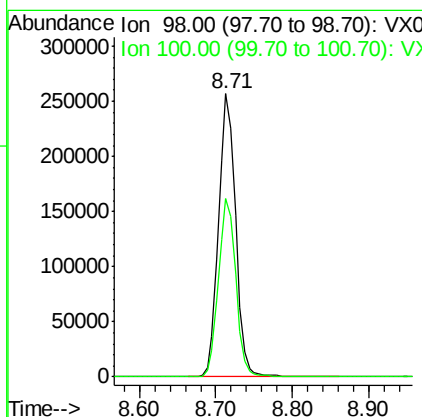
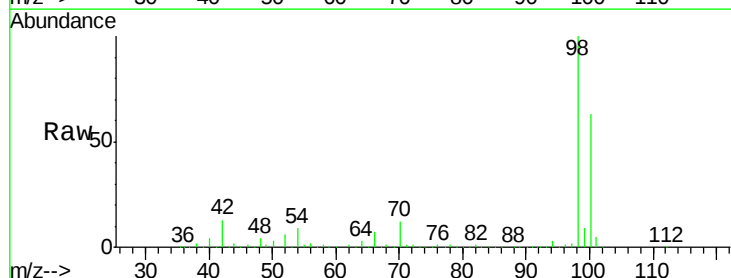
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0520-190502

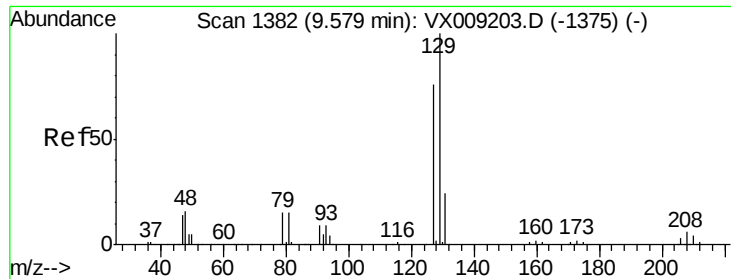
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 421.1 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.337 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009325.D
 Acq: 03 May 2019 21:20

Tgt Ion: 98 Resp: 399581
 Ion Ratio Lower Upper
 98 100
 100 63.9 51.2 76.8





#60

Dibromochloromethane

Concen: 1.717 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

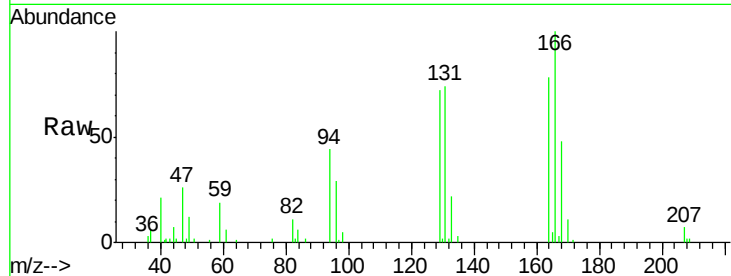
DUP-0520-190502

Tot Ion:129 Resp: 3816

Ion Ratio Lower Upper

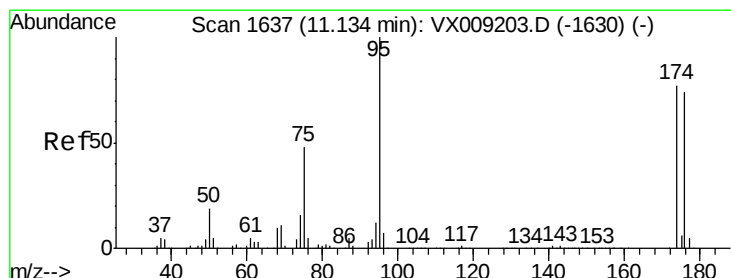
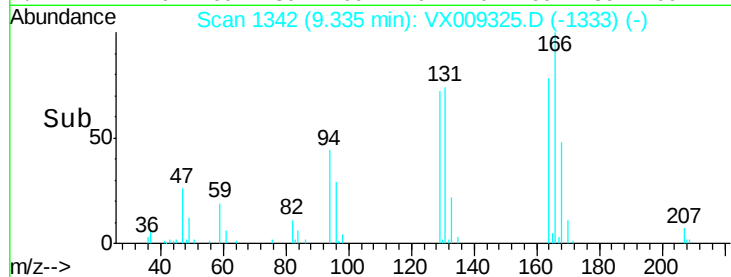
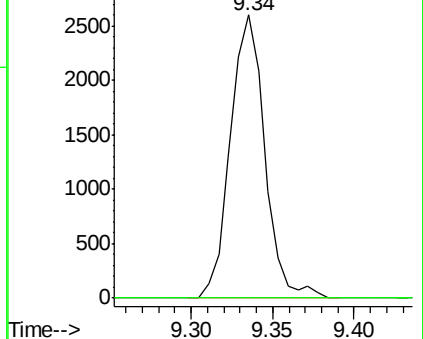
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.532 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

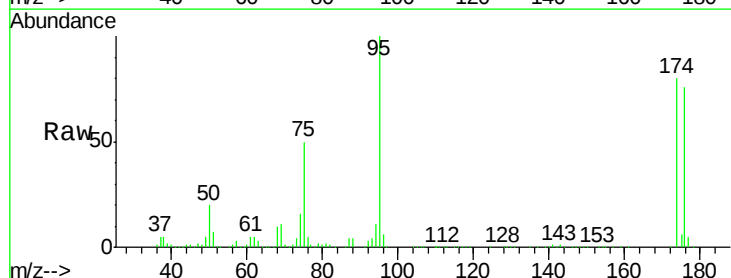
Tgt Ion: 95 Resp: 133993

Ion Ratio Lower Upper

95 100

174 81.9 0.0 161.6

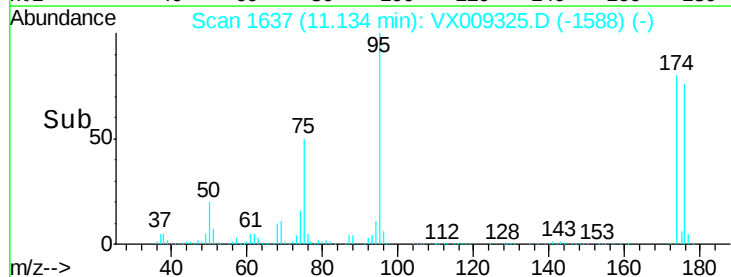
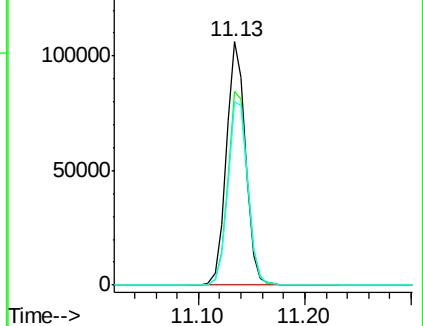
176 78.6 0.0 159.2

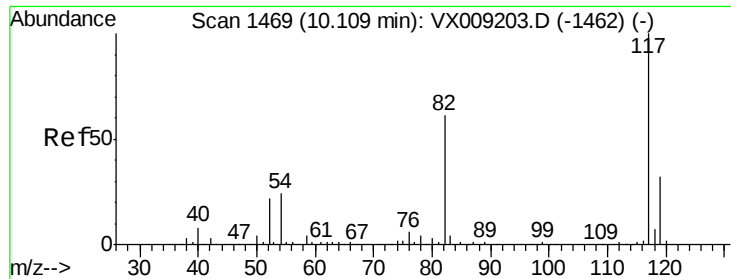


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

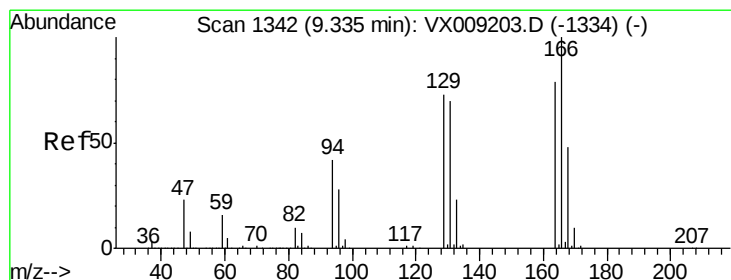
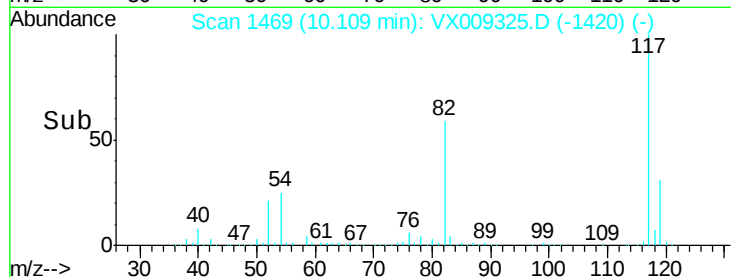
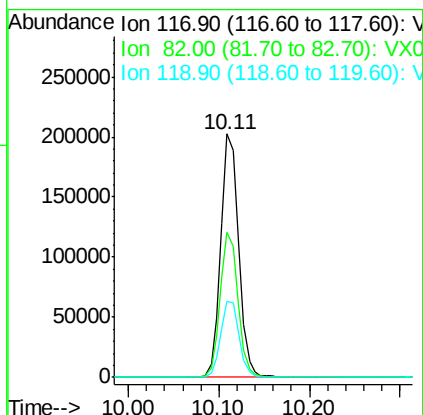
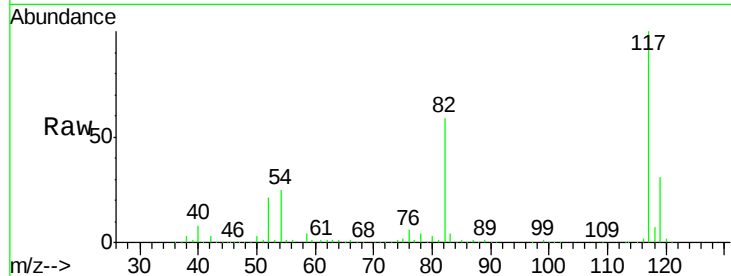




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009325.D
Acq: 03 May 2019 21:20

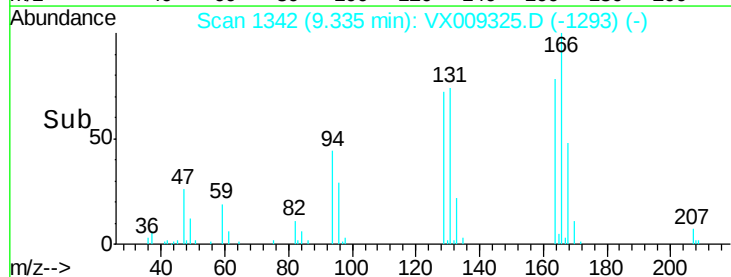
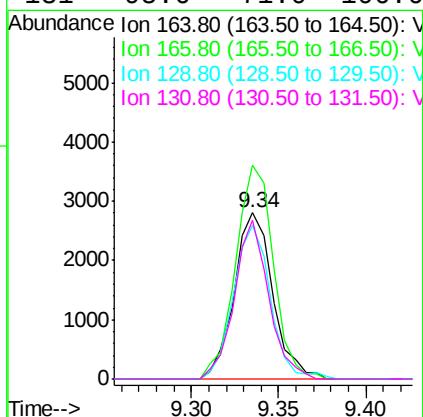
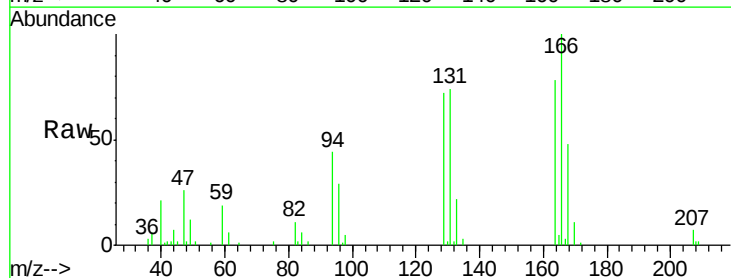
Instrument :
MSVOA_X
ClientSampleId :
DUP-0520-190502

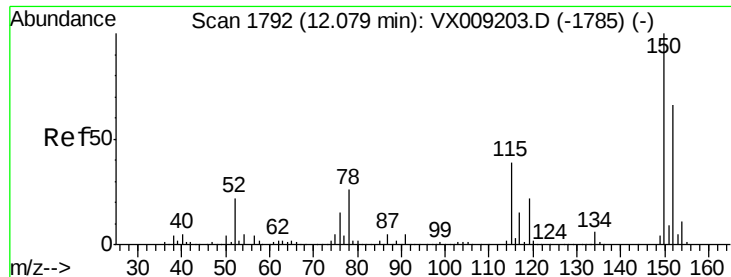
Tot Ion:117 Resp: 280230
Ion Ratio Lower Upper
117 100
82 59.4 48.8 73.2
119 31.2 25.8 38.6



#64
Tetrachloroethene
Concen: 2.249 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009325.D
Acq: 03 May 2019 21:20

Tgt Ion:164 Resp: 4324
Ion Ratio Lower Upper
164 100
166 128.8 101.2 151.8
129 92.9 74.3 111.5
131 95.6 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0520-190502

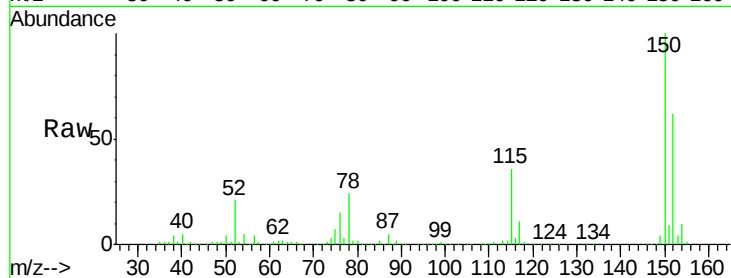
Tot Ion:152 Resp: 118769

Ion Ratio Lower Upper

152 100

115 60.0 41.2 123.6

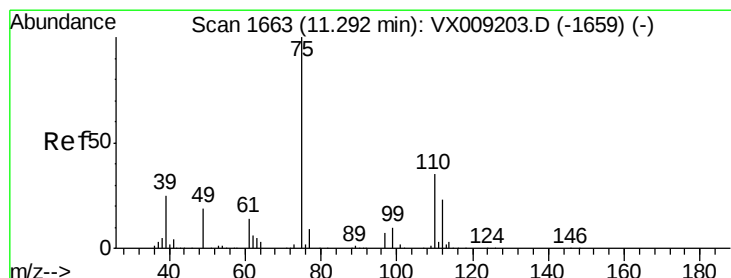
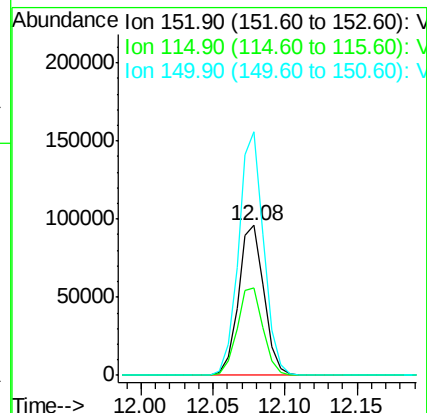
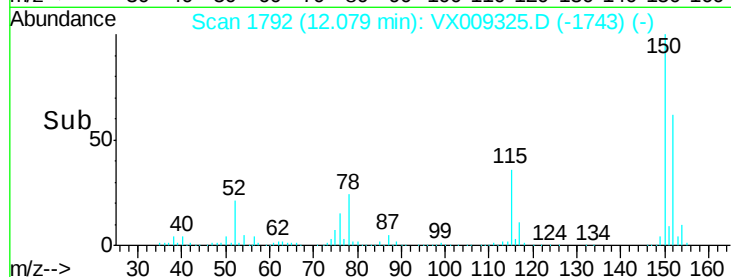
150 159.4 0.0 346.4



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: 24.352 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009325.D

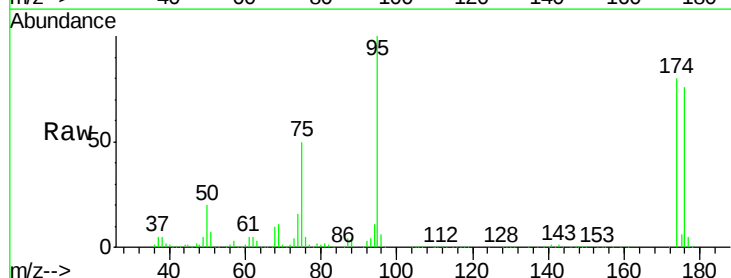
Acq: 03 May 2019 21:20

Tgt Ion: 75 Resp: 67090

Ion Ratio Lower Upper

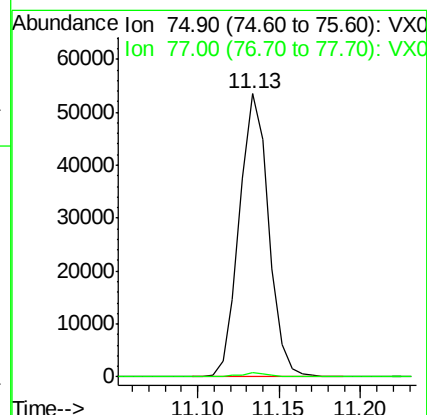
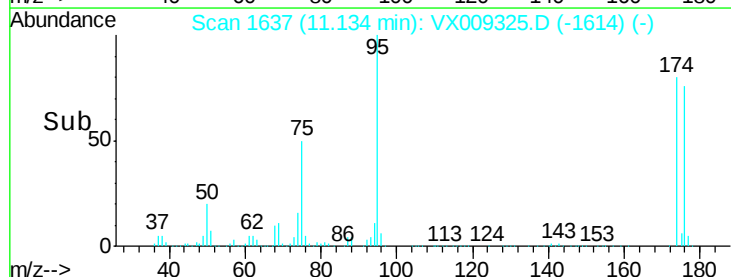
75 100

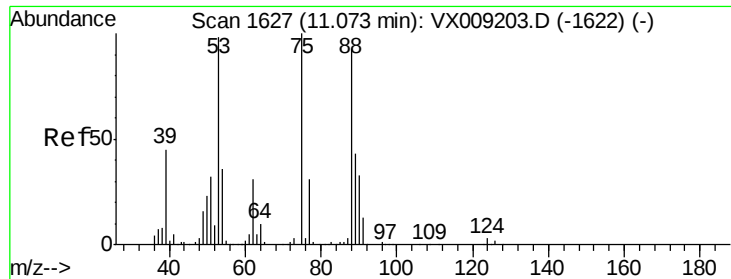
77 1.5 22.1 66.1#



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: 62.308 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009325.D

Acq: 03 May 2019 21:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0520-190502

Tot Ion: 75 Resp: 67090

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

