

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120421\
 Data File : VX025518.D
 Acq On : 04 Dec 2021 13:46
 Operator : JC/MD
 Sample : M4924-03DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20211202DL

Quant Time: Dec 06 01:01:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
 Quant Title : Sw846 8260
 QLast Update : Wed Nov 17 15:36:16 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

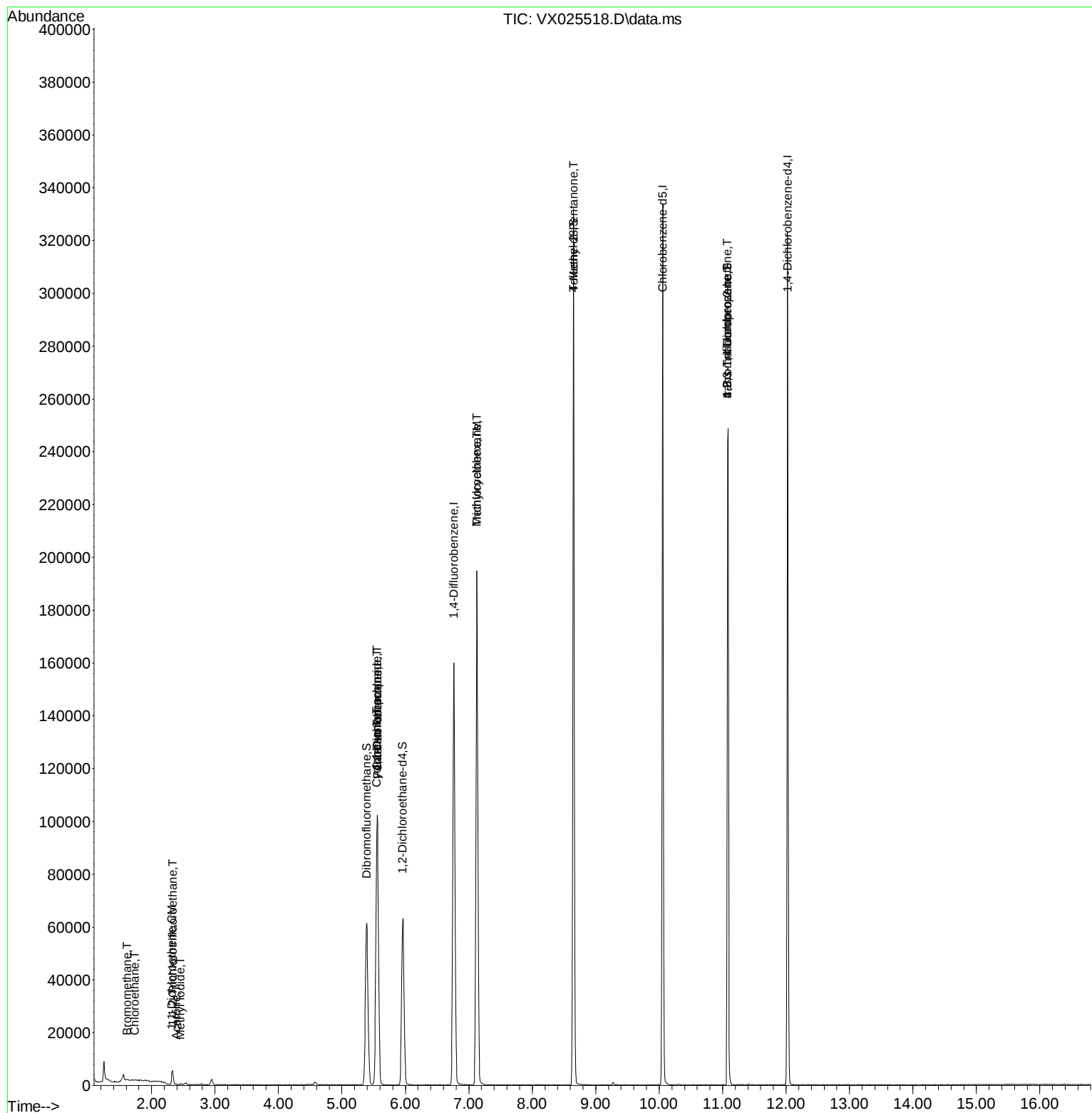
Internal Standards						
1) Pentafluorobenzene	5.562	168	103646	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	172489	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	153449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67703	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	60671	55.53	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.06%			
35) Dibromofluoromethane	5.391	113	53426	50.48	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.96%			
50) Toluene-d8	8.653	98	197901	49.73	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.46%			
62) 4-Bromofluorobenzene	11.079	95	69329	46.05	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.10%			
Target Compounds					Qvalue	
5) Bromomethane	1.618	94	301	0.57	ug/l	99
6) Chloroethane	1.733	64	209	0.25	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	2.331	101	1902	1.97	ug/l	98
10) Methyl Iodide	2.453	142	328	0.27	ug/l #	84
11) Tert butyl alcohol	2.947	59	1234	Below Cal	#	72
12) 1,1-Dichloroethene	2.319	96	347	0.36	ug/l #	80
16) Acetone	2.392	43	378	0.62	ug/l	98
31) Cyclohexane	5.550	56	1916	1.13	ug/l #	2
36) 1,1-Dichloropropene	5.556	75	7330	4.87	ug/l #	50
38) Carbon Tetrachloride	5.556	117	9772	5.90	ug/l #	17
39) Methylcyclohexane	7.129	83	908	0.47	ug/l #	1
44) Trichloroethene	7.129	130	75326	56.88	ug/l	94
51) 4-Methyl-2-Pentanone	8.653	43	804	0.45	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	33365	24.07	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	33365	60.63	ug/l #	9
95) Naphthalene	13.774	128	96	Below Cal	#	69

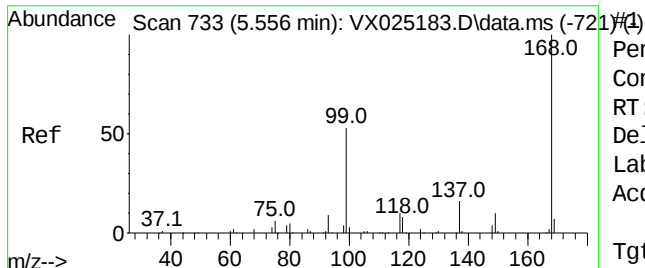
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 17 15:36:16 2021
Response via : Initial Calibration





Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.562 min Scan#

Delta R.T. 0.006 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

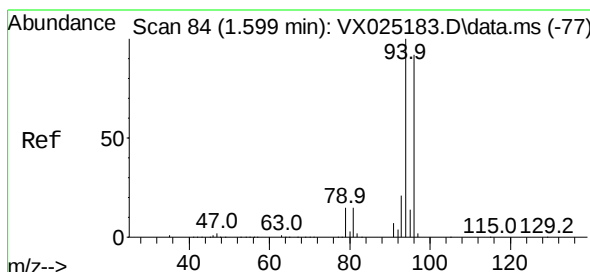
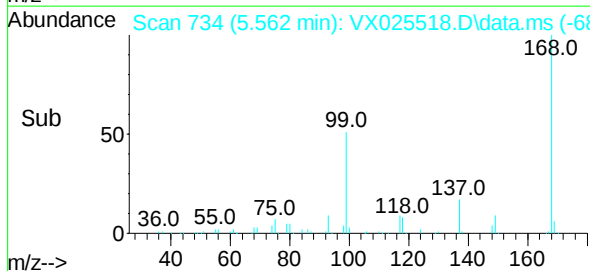
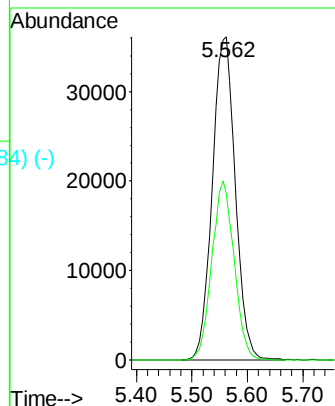
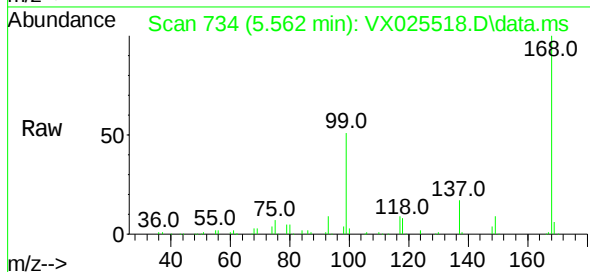
DUP08-20211202DL

Tgt Ion:168 Resp: 103646

Ion Ratio Lower Upper

168 100

99 51.2 46.4 69.6



Bromomethane

Concen: 0.57 ug/l

RT: 1.618 min Scan# 87

Delta R.T. 0.019 min

Lab File: VX025518.D

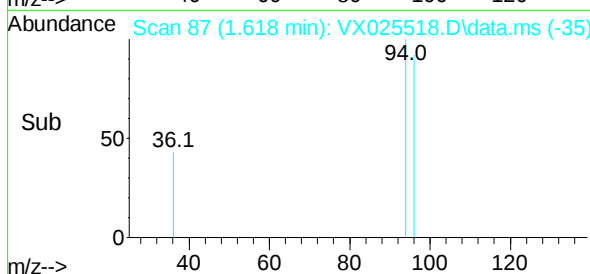
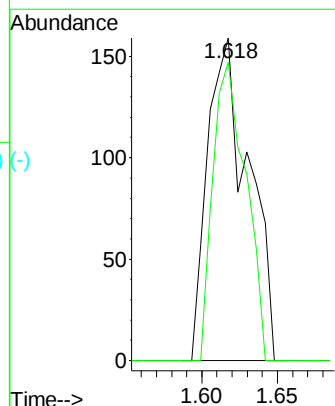
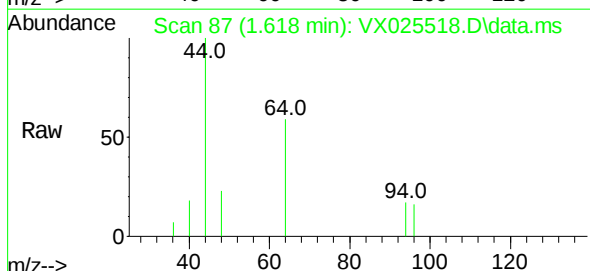
Acq: 04 Dec 2021 13:46

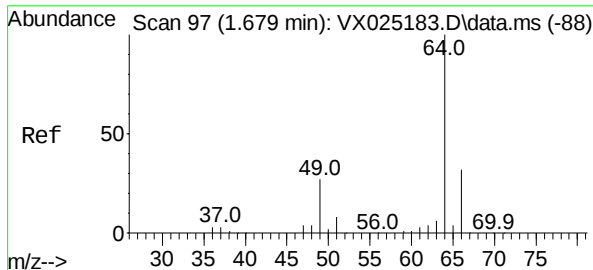
Tgt Ion: 94 Resp: 301

Ion Ratio Lower Upper

94 100

96 92.5 74.8 112.2





Chloroethane

Concen: 0.25 ug/l

RT: 1.733 min Scan#

Delta R.T. 0.054 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

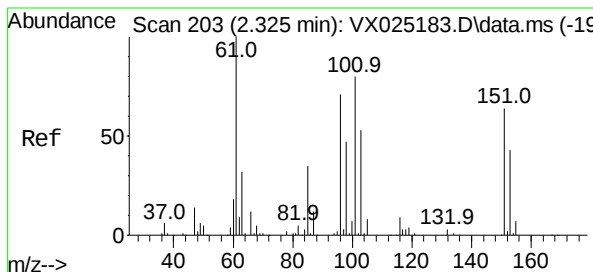
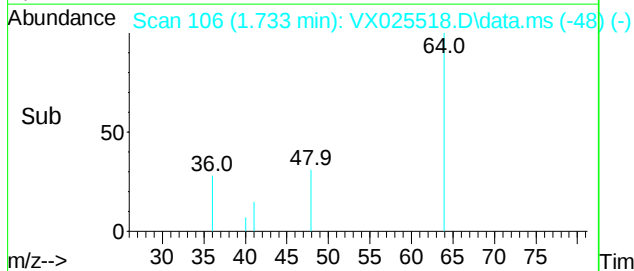
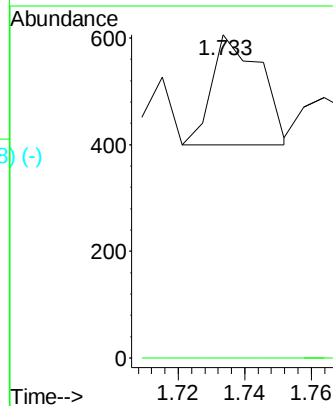
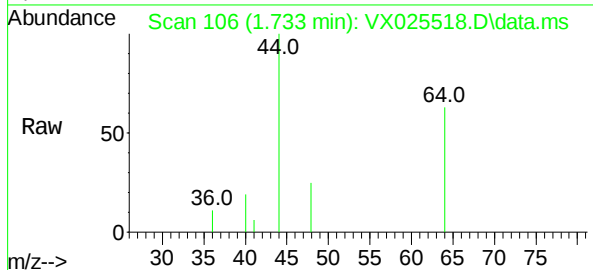
DUP08-20211202DL

Tgt Ion: 64 Resp: 209

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



1,1,2-Trichlorotrifluoroethane

Concen: 1.97 ug/l

RT: 2.331 min Scan# 204

Delta R.T. 0.006 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

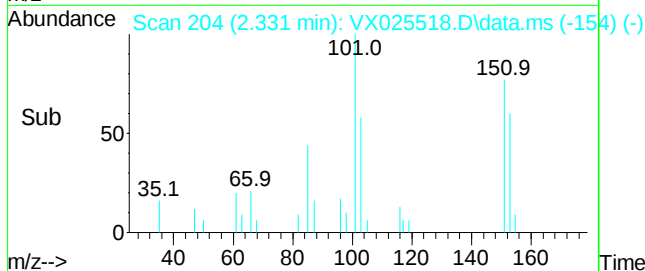
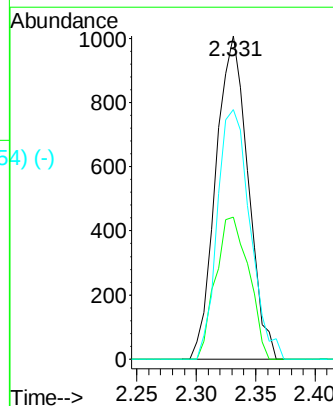
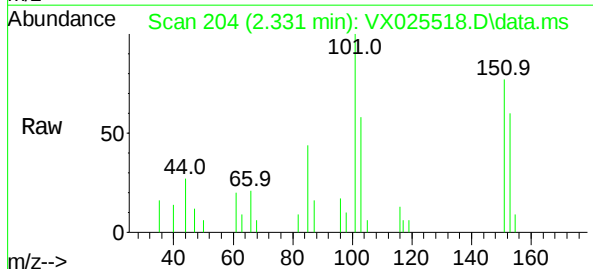
Tgt Ion: 101 Resp: 1902

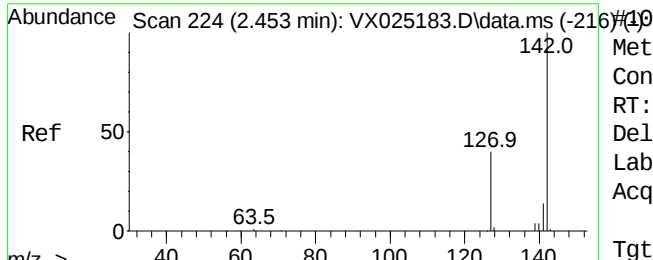
Ion Ratio Lower Upper

101 100

85 45.1 35.9 53.9

151 78.4 64.4 96.6





Methyl Iodide

Concen: 0.27 ug/l

RT: 2.453 min Scan# 10

Delta R.T. -0.000 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20211202DL

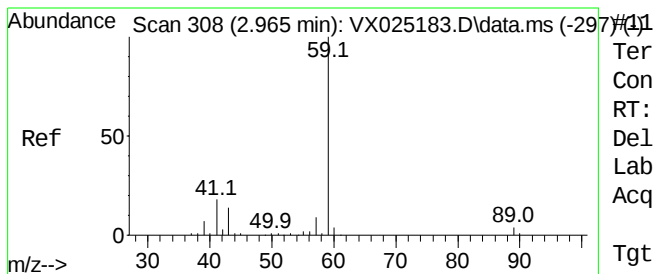
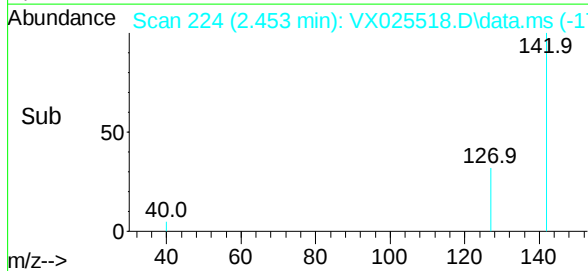
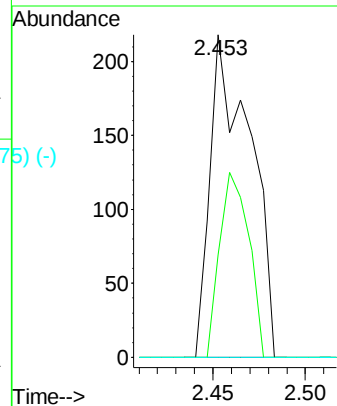
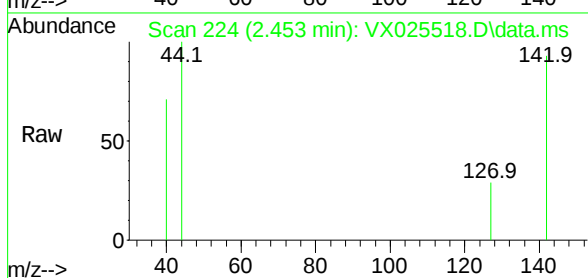
Tgt Ion:142 Resp: 328

Ion Ratio Lower Upper

142 100

127 41.8 38.9 58.3

141 0.0 11.7 17.5#



Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 305

Delta R.T. -0.018 min

Lab File: VX025518.D

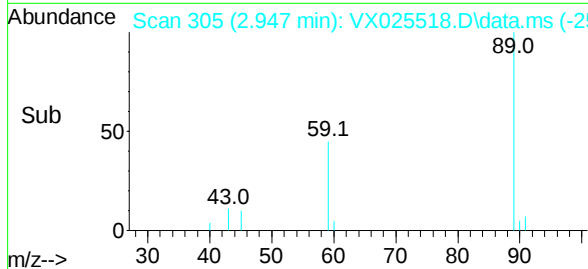
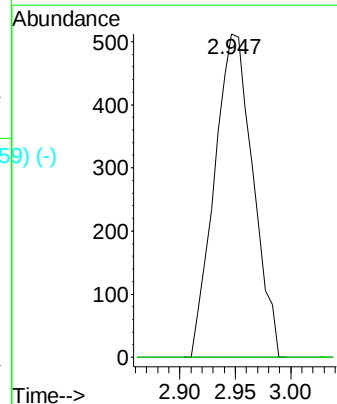
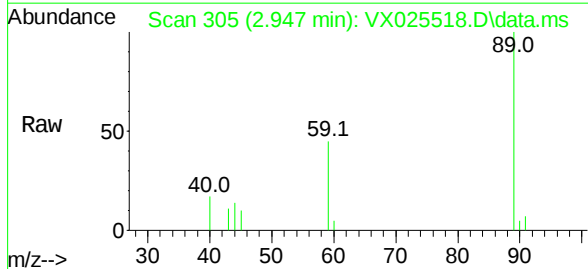
Acq: 04 Dec 2021 13:46

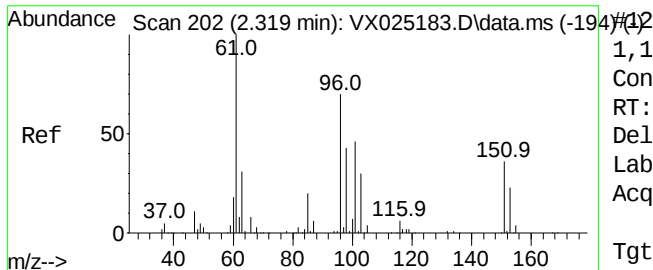
Tgt Ion: 59 Resp: 1234

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





1,1-Dichloroethene

Concen: 0.36 ug/l

RT: 2.319 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

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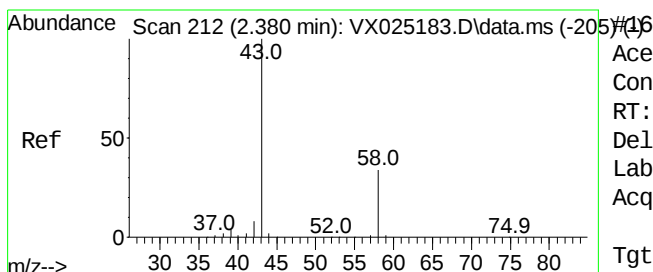
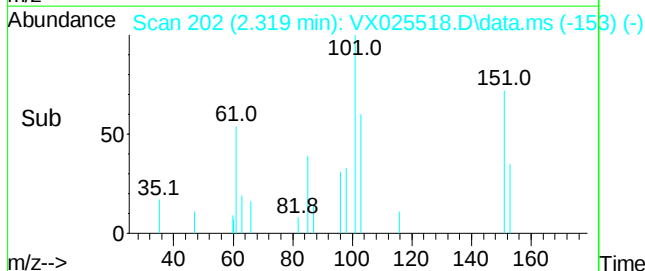
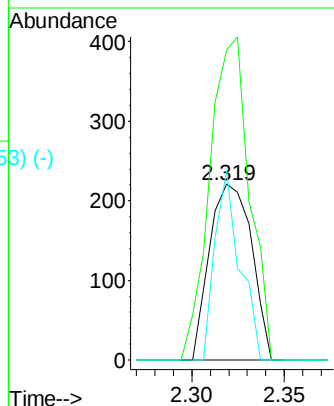
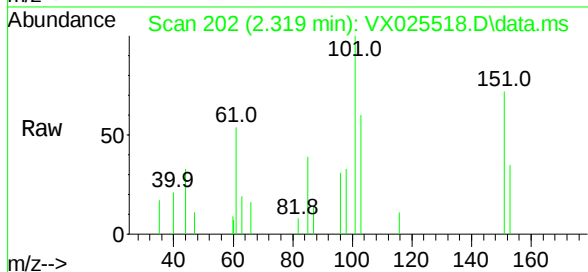
Tgt Ion: 96 Resp: 347

Ion Ratio Lower Upper

96 100

61 176.0 134.1 201.1

98 107.7 51.5 77.3#



Acetone

Concen: 0.62 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.012 min

Lab File: VX025518.D

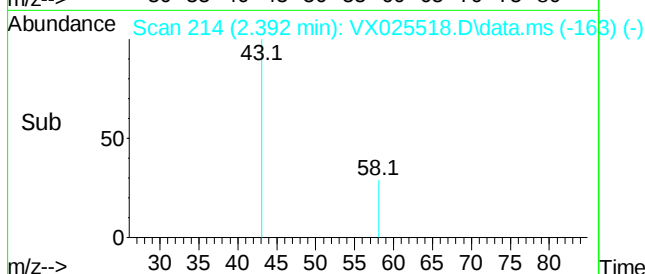
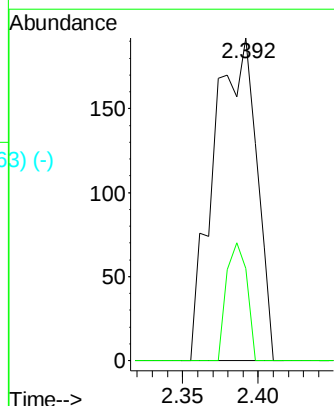
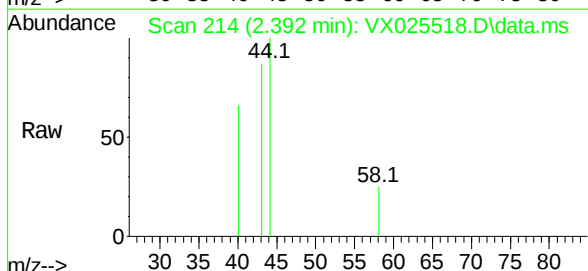
Acq: 04 Dec 2021 13:46

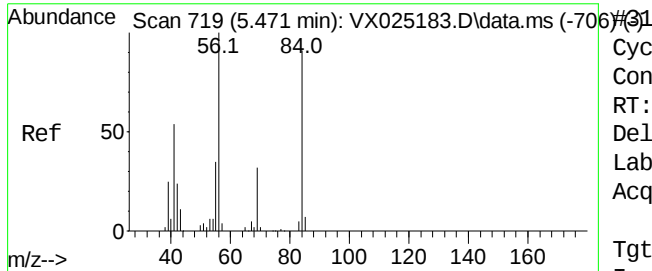
Tgt Ion: 43 Resp: 378

Ion Ratio Lower Upper

43 100

58 28.6 24.0 36.0





Cyclohexane

Concen: 1.13 ug/l

RT: 5.550 min Scan#

Delta R.T. 0.079 min

Lab File: VX025518.D

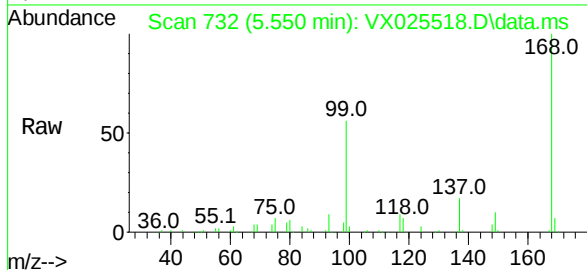
Acq: 04 Dec 2021 13:46

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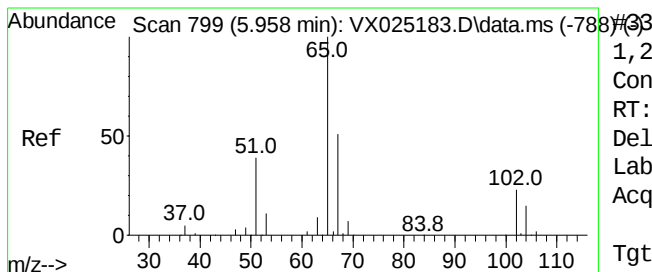
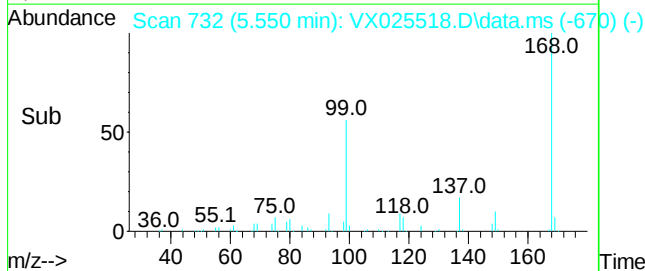
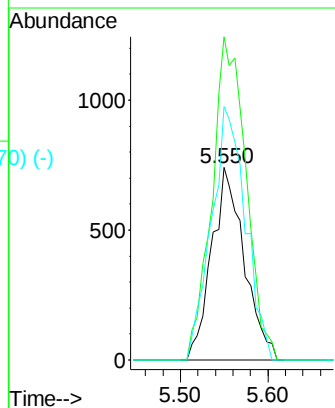
Tgt Ion: 56 Resp: 1916

Ion Ratio Lower Upper

56 100

69 167.9 24.2 36.2#

84 131.7 71.5 107.3#



1,2-Dichloroethane-d4

Concen: 55.53 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX025518.D

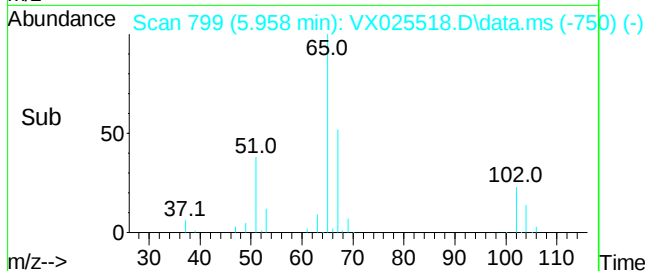
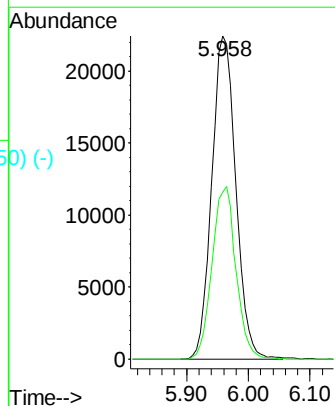
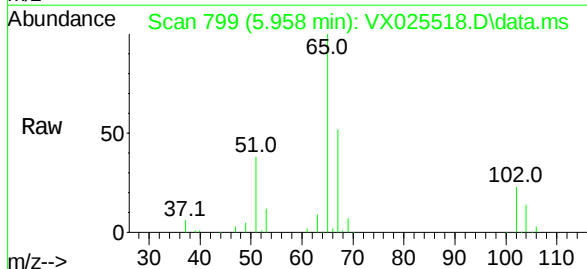
Acq: 04 Dec 2021 13:46

Tgt Ion: 65 Resp: 60671

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.0



Abundance Scan 931 (6.763 min): VX025183.D\data.ms (-920) #34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX025518.D

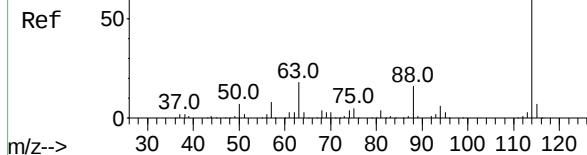
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Instrument :

MSVOA_X

ClientSampleId :

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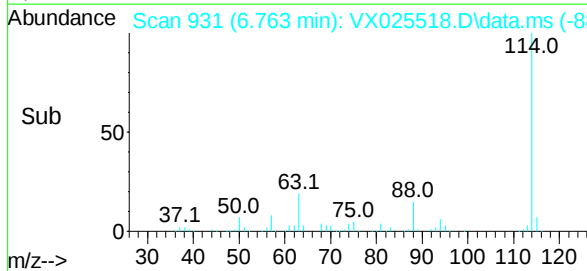
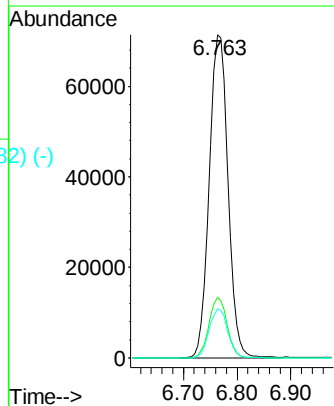
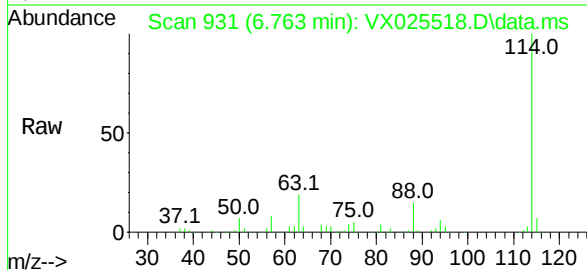
Tgt Ion:114 Resp: 172489

Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.0

88 15.3 0.0 34.8



Abundance Scan 705 (5.385 min): VX025183.D\data.ms (-693) #35

Dibromofluoromethane

Concen: 50.48 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

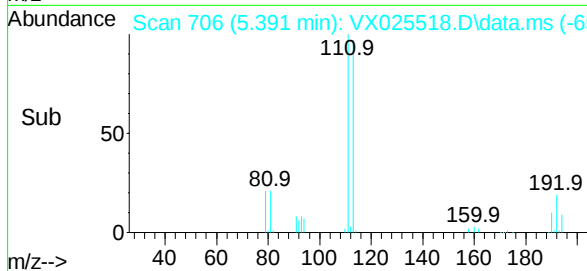
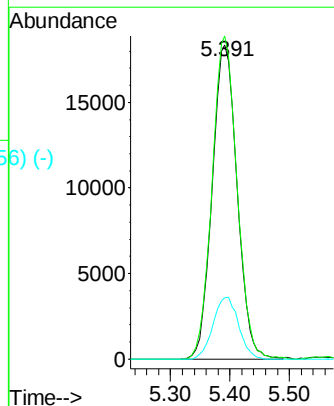
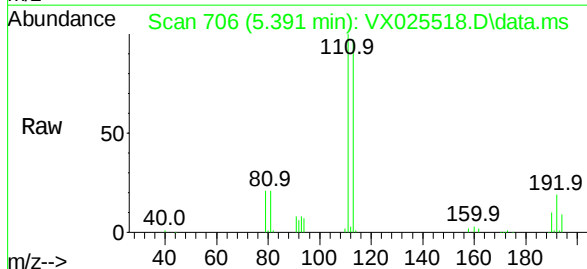
Tgt Ion:113 Resp: 53426

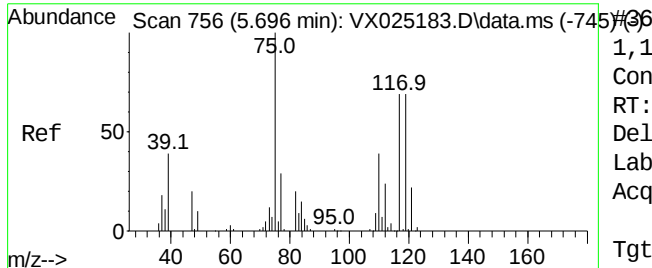
Ion Ratio Lower Upper

113 100

111 103.0 82.1 123.1

192 20.1 15.6 23.4

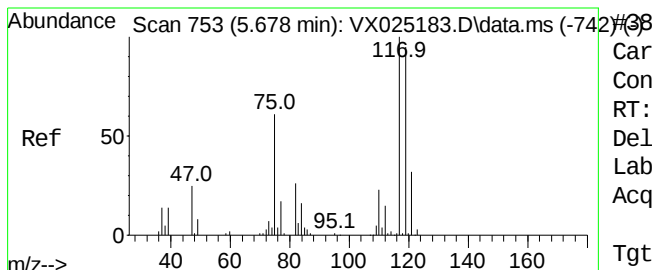
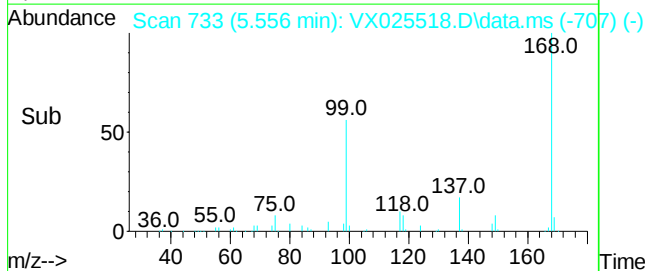
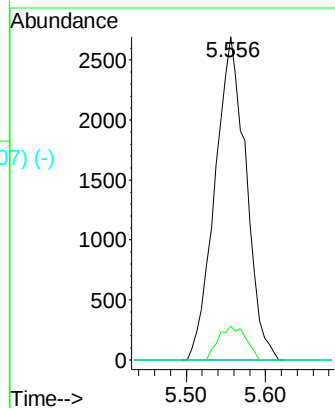
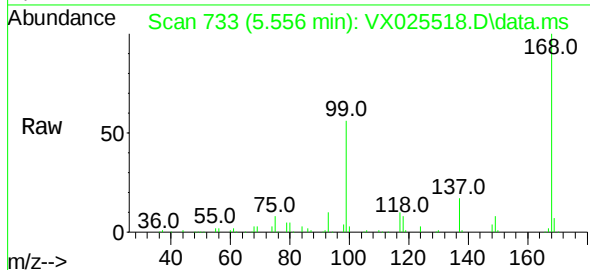




1,1-Dichloropropene
Concen: 4.87 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX025518.D
Acq: 04 Dec 2021 13:46

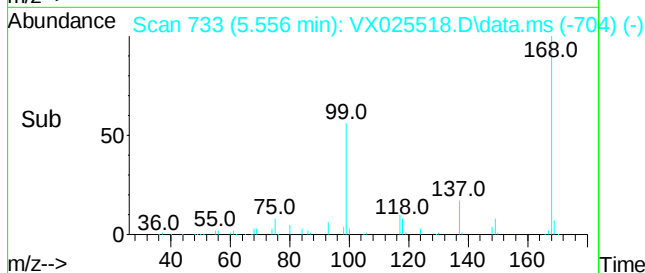
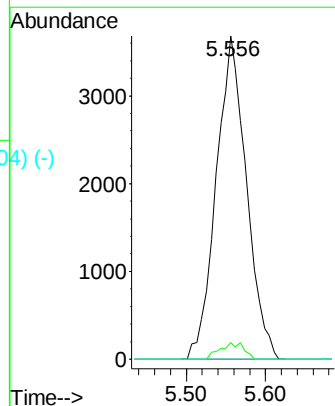
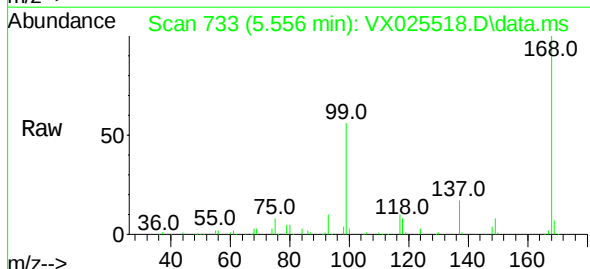
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Tgt Ion:	75	Resp:	7330
Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.3#
77	0.0	24.4	36.6#



Carbon Tetrachloride
Concen: 5.90 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX025518.D
Acq: 04 Dec 2021 13:46

Tgt Ion:	117	Resp:	9772
Ion	Ratio	Lower	Upper
117	100		
119	5.1	75.6	113.4#
121	0.0	23.7	35.5#



Abundance Scan 1033 (7.385 min): VX025183.D\data.ms (-1029)

Methylcyclohexane

Concen: 0.47 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX025518.D

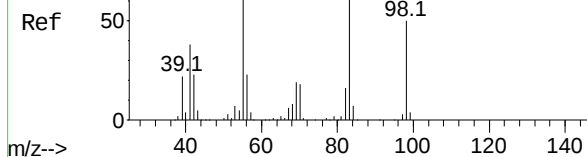
Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20211202DL



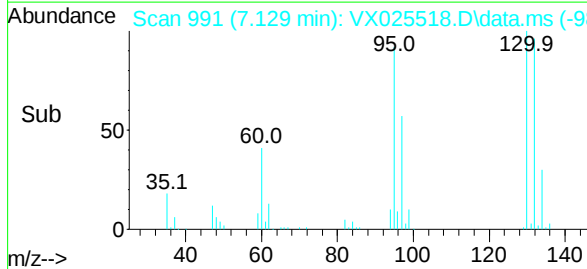
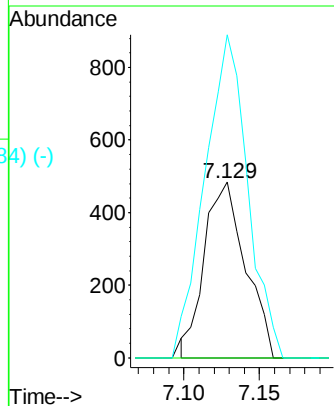
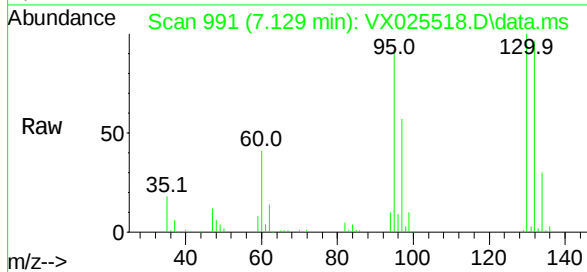
Tgt Ion: 83 Resp: 908

Ion Ratio Lower Upper

83 100

55 0.0 60.8 91.2#

98 183.9 37.0 55.4#



Abundance Scan 991 (7.129 min): VX025183.D\data.ms (-981)

Trichloroethene

Concen: 56.88 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025518.D

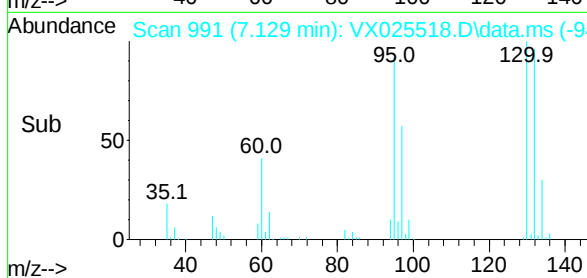
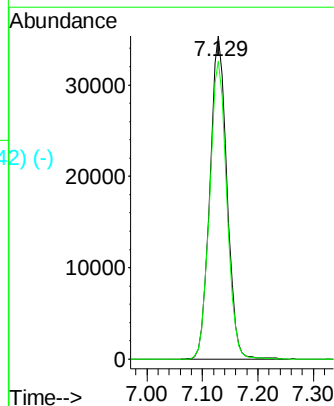
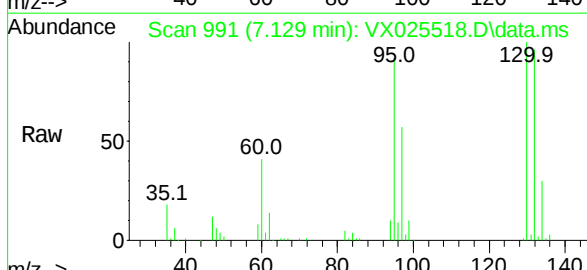
Acq: 04 Dec 2021 13:46

Tgt Ion:130 Resp: 75326

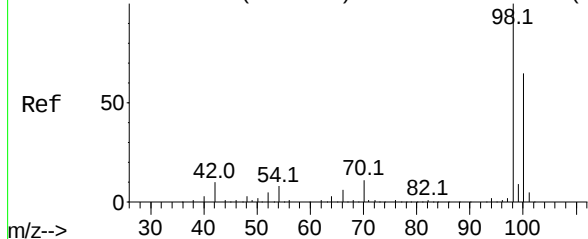
Ion Ratio Lower Upper

130 100

95 92.4 0.0 196.8



Abundance Scan 1241 (8.653 min): VX025183.D\data.ms (-12350-)



Toluene-d8

Concen: 49.73 ug/l

RT: 8.653 min Scan#

Delta R.T. -0.000 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

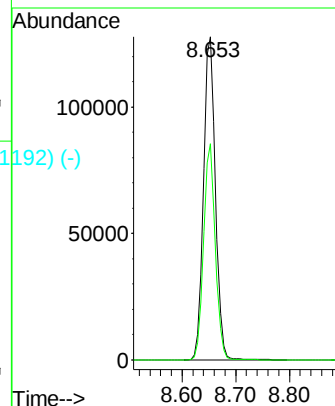
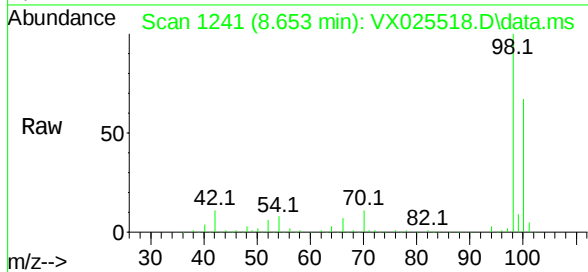
DUP08-20211202DL

Tgt Ion: 98 Resp: 197901

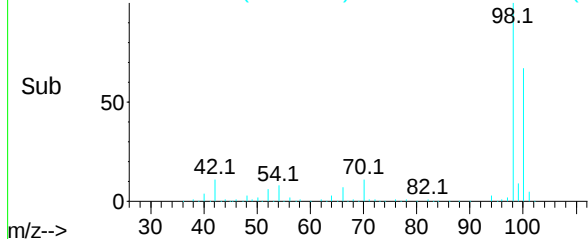
Ion Ratio Lower Upper

98 100

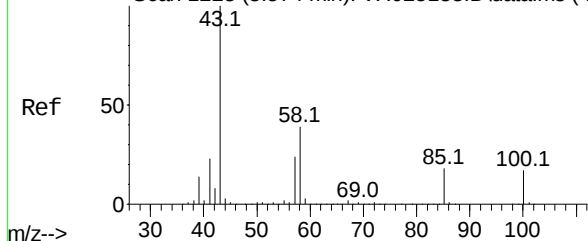
100 66.0 51.4 77.0



Abundance Scan 1241 (8.653 min): VX025518.D\data.ms (-1192-)



Abundance Scan 1228 (8.574 min): VX025183.D\data.ms (-12351-)



4-Methyl-2-Pentanone

Concen: 0.45 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.079 min

Lab File: VX025518.D

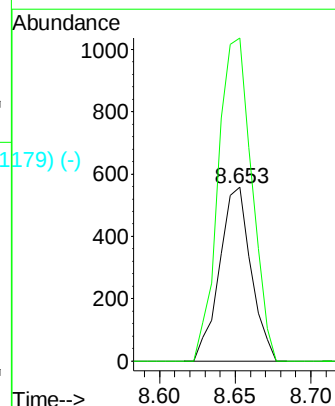
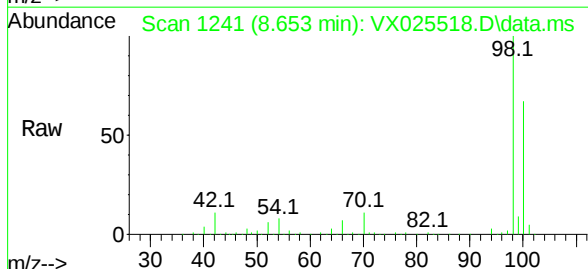
Acq: 04 Dec 2021 13:46

Tgt Ion: 43 Resp: 804

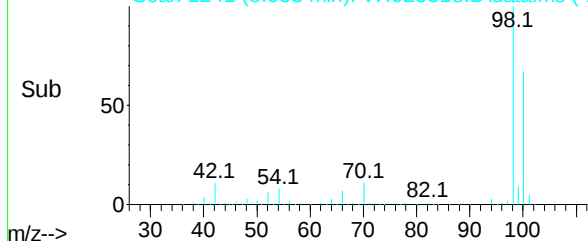
Ion Ratio Lower Upper

43 100

58 198.1 30.9 46.3#



Abundance Scan 1241 (8.653 min): VX025518.D\data.ms (-1179-)



Abundance Scan 1639 (11.079 min): VX025183.D\data.ms (-1639) (-)

4-Bromofluorobenzene

Concen: 46.05 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX025518.D

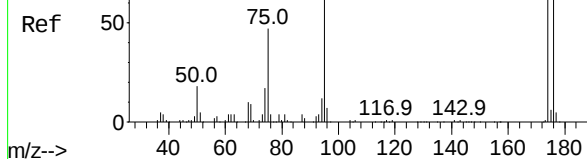
Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20211202DL



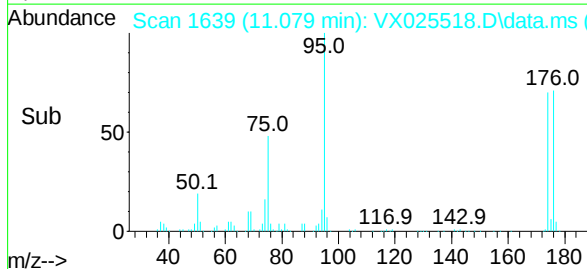
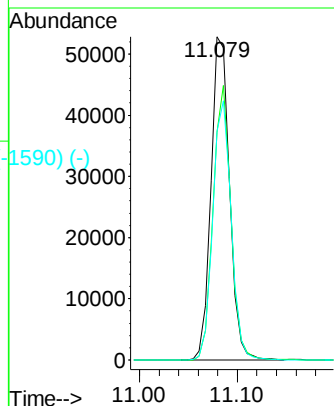
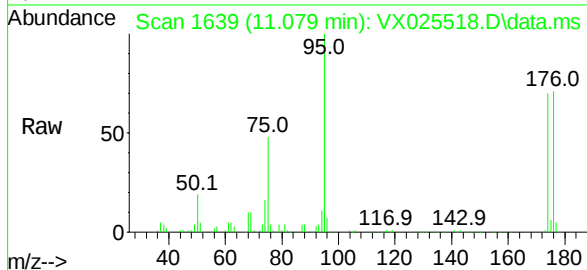
Tgt Ion: 95 Resp: 69329

Ion Ratio Lower Upper

95 100

174 81.4 0.0 158.0

176 79.6 0.0 153.6



Abundance Scan 1471 (10.055 min): VX025183.D\data.ms (-1469) (-)

Chlorobenzene-d5

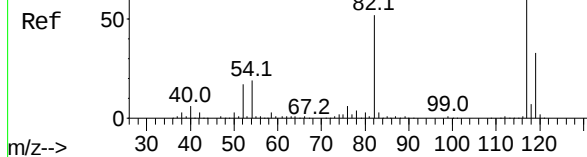
Concen: 50.00 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46



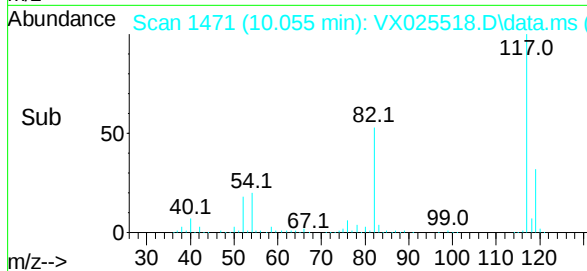
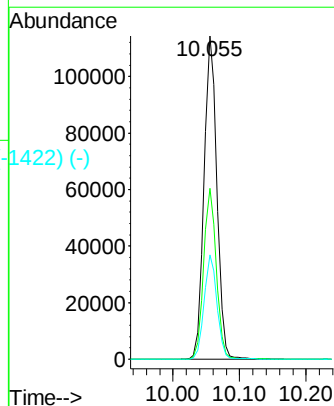
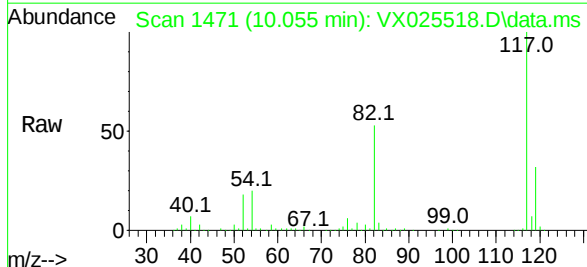
Tgt Ion: 117 Resp: 153449

Ion Ratio Lower Upper

117 100

82 52.9 44.6 67.0

119 32.2 24.8 37.2



Abundance Scan 1794 (12.024 min): VX025183.D\data.ms (-1758) (-)

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.024 min Scan# 1758

Delta R.T. 0.000 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20211202DL

Tgt Ion:152 Resp: 67703

Ion Ratio Lower Upper

152 100

115 57.9 43.3 129.8

150 157.9 0.0 351.2

Abundance Scan 1794 (12.024 min): VX025518.D\data.ms

Ref

52.0 78.0 98.9 119.1 150.0

m/z-->

Abundance Scan 1794 (12.024 min): VX025518.D\data.ms

Raw

52.1 78.1 96.9 115.0 132.0 150.0

m/z-->

Abundance Scan 1794 (12.024 min): VX025518.D\data.ms (-1745) (-)

Sub

52.1 78.1 96.9 115.0 132.0 150.0

m/z-->

Abundance

80000

60000

40000

20000

0

12.00 12.10

Time-->

Abundance Scan 1666 (11.244 min): VX025183.D\data.ms (-1676) (-)

1,2,3-Trichloropropane

Concen: 24.07 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Tgt Ion: 75 Resp: 33365

Ion Ratio Lower Upper

75 100

77 1.2 20.0 59.9#

Abundance Scan 1639 (11.079 min): VX025518.D\data.ms

Ref

39.0 75.0 110.0 145.9

m/z-->

Abundance Scan 1639 (11.079 min): VX025518.D\data.ms

Raw

50.1 75.0 95.0 116.9 142.9 176.0

m/z-->

Abundance Scan 1639 (11.079 min): VX025518.D\data.ms (-1617) (-)

Sub

50.1 75.0 95.0 116.9 142.9 176.0

m/z-->

Abundance

25000

20000

15000

10000

5000

0

11.00 11.10

Time-->

Abundance Scan 1629 (11.018 min): VX025183.D\data.ms (-1629) (-)

trans-1,4-Dichloro-2-butene

Concen: 60.63 ug/l

RT: 11.079 min Scan# 1629

Delta R.T. 0.061 min

Lab File: VX025518.D

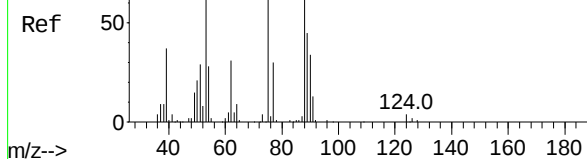
Acq: 04 Dec 2021 13:46

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20211202DL



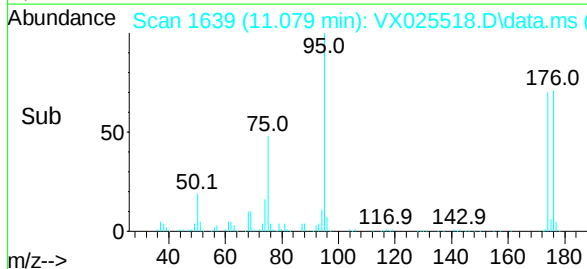
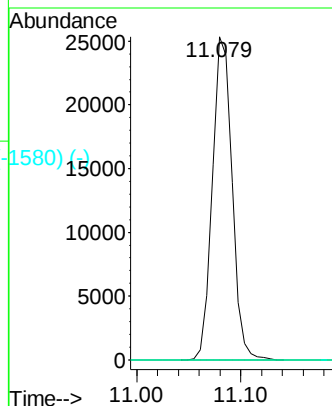
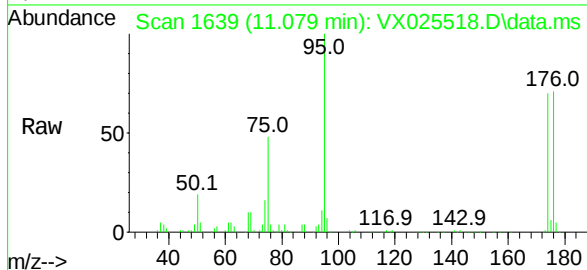
Tgt Ion: 75 Resp: 33365

Ion Ratio Lower Upper

75 100

53 0.0 81.9 122.9#

89 0.0 38.2 57.2#



Abundance Scan 2082 (13.780 min): VX025183.D\data.ms (-2082) (-)

Naphthalene

Concen: Below Cal

RT: 13.774 min Scan# 2081

Delta R.T. -0.006 min

Lab File: VX025518.D

Acq: 04 Dec 2021 13:46

Tgt Ion:128 Resp: 96

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#

