

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120421\
 Data File : VX025533.D
 Acq On : 04 Dec 2021 19:38
 Operator : JC/MD
 Sample : M4923-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D-20211201

Quant Time: Dec 06 01:08:17 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)

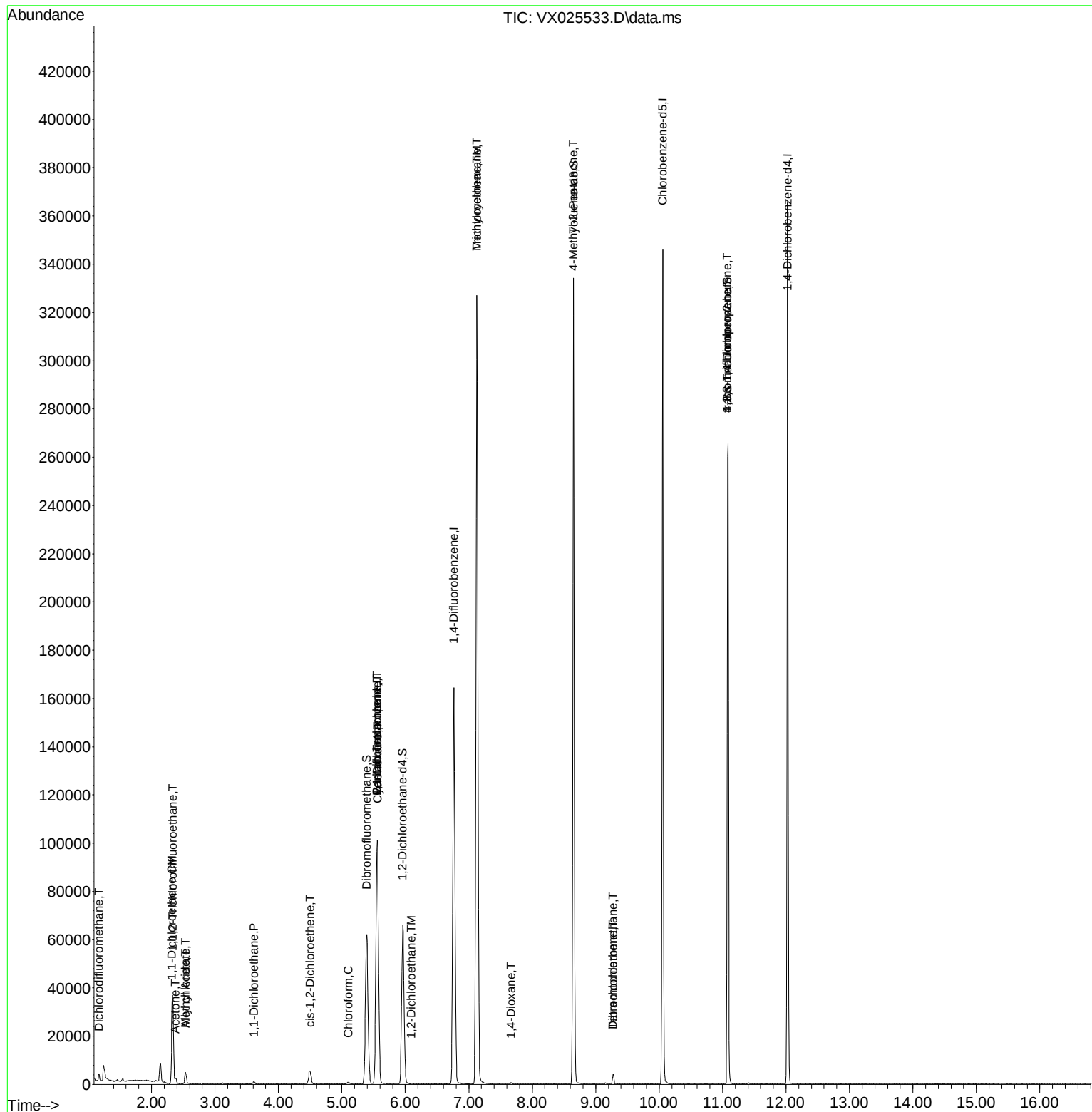
Internal Standards						
1) Pentafluorobenzene	5.556	168	102022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	173301	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	158443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	76418	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	61358	57.06	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.12%			
35) Dibromofluoromethane	5.391	113	52723	49.58	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.16%			
50) Toluene-d8	8.653	98	199725	49.96	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.92%			
62) 4-Bromofluorobenzene	11.079	95	72883	48.19	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.38%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	998	1.13	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	13270	13.98	ug/l	96
11) Tert butyl alcohol	2.965	59	87	Below Cal	#	72
12) 1,1-Dichloroethene	2.319	96	2101	2.22	ug/l	100
14) Allyl chloride	2.532	41	454	0.27	ug/l #	47
16) Acetone	2.380	43	2333	3.90	ug/l	99
18) Methyl Acetate	2.532	43	1439	0.75	ug/l #	52
24) 1,1-Dichloroethane	3.611	63	1456	0.82	ug/l #	83
27) cis-1,2-Dichloroethene	4.501	96	3601	2.98	ug/l	86
30) Chloroform	5.105	83	917	0.49	ug/l	98
31) Cyclohexane	5.562	56	1891	1.14	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	7194	4.76	ug/l #	50
38) Carbon Tetrachloride	5.556	117	9826	5.90	ug/l #	17
39) Methylcyclohexane	7.129	83	1391	0.72	ug/l #	1
42) 1,2-Dichloroethane	6.092	62	349	0.23	ug/l #	77
44) Trichloroethene	7.129	130	130516	98.09	ug/l	94
49) 1,4-Dioxane	7.665	88	417	14.70	ug/l	97
51) 4-Methyl-2-Pentanone	8.647	43	867	0.48	ug/l #	1
60) Dibromochloromethane	9.275	129	735	0.54	ug/l #	11
64) Tetrachloroethene	9.275	164	823	0.63	ug/l	87
76) 1,2,3-Trichloropropane	11.079	75	35509	22.69	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	35509	57.16	ug/l #	9

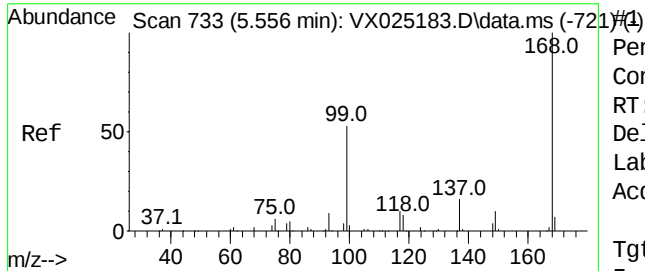
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
TT101D-20211201

Quant Time: Dec 06 01:08:17 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





Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.556 min Scan#

Delta R.T. 0.000 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

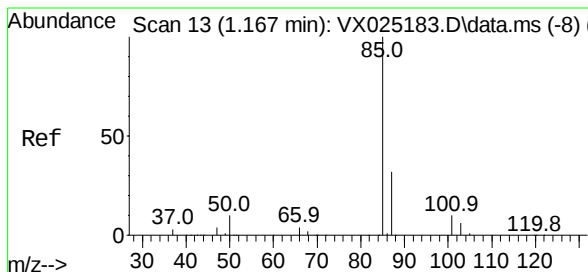
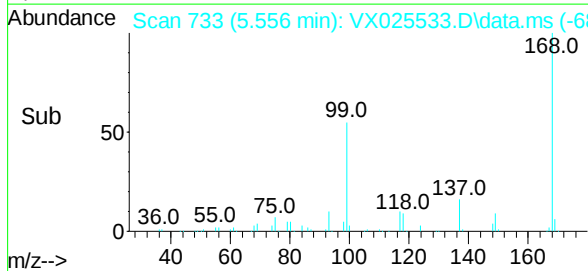
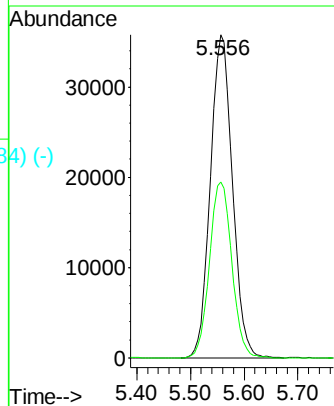
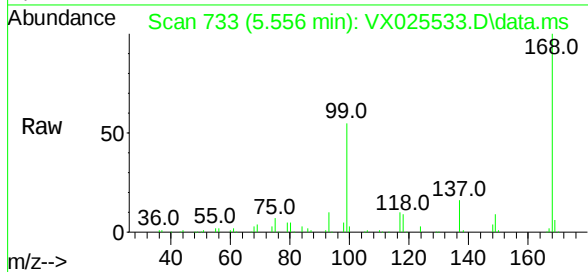
TT101D-20211201

Tgt Ion:168 Resp: 102022

Ion Ratio Lower Upper

168 100

99 54.5 46.4 69.6



Dichlorodifluoromethane

Concen: 1.13 ug/l

RT: 1.167 min Scan# 13

Delta R.T. -0.000 min

Lab File: VX025533.D

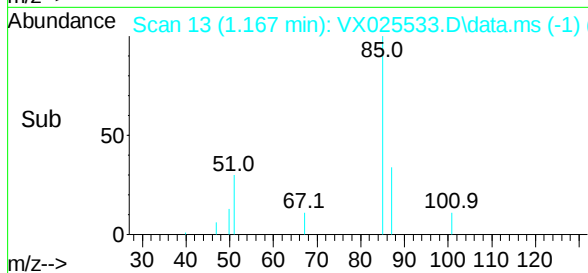
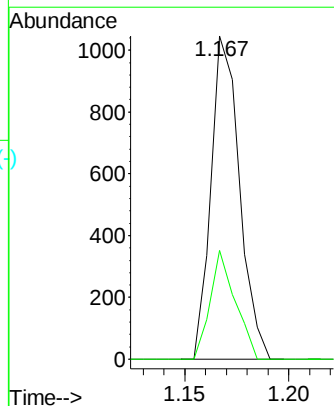
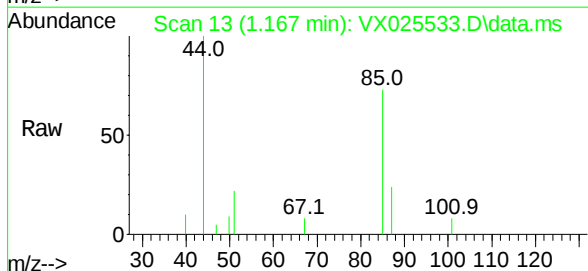
Acq: 04 Dec 2021 19:38

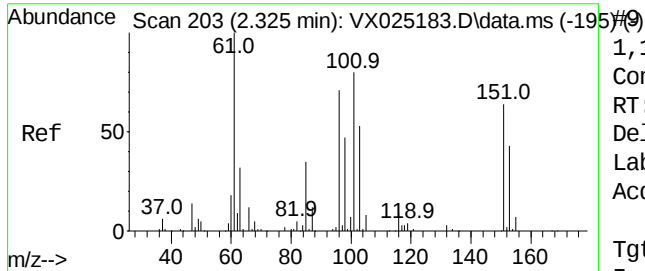
Tgt Ion: 85 Resp: 998

Ion Ratio Lower Upper

85 100

87 33.7 16.0 47.9





1,1,2-Trichlorotrifluoroethane

Concen: 13.98 ug/l

RT: 2.331 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

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ClientSampleId :

TT101D-20211201

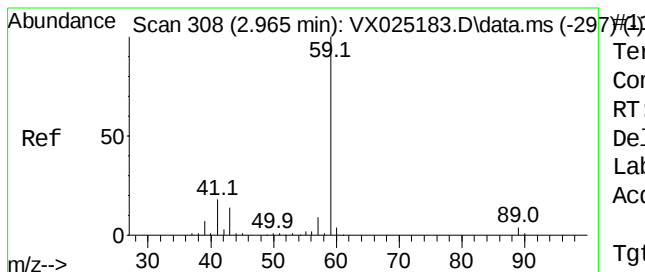
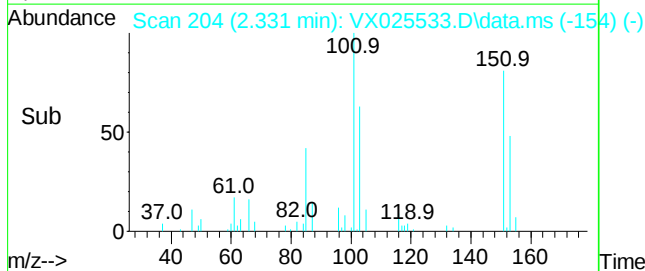
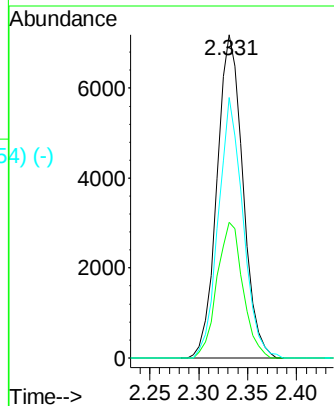
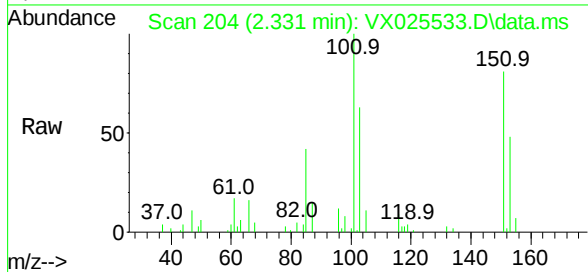
Tgt Ion:101 Resp: 13270

Ion Ratio Lower Upper

101 100

85 41.9 35.9 53.9

151 76.6 64.4 96.6



Tert butyl alcohol

Concen: Below Cal

RT: 2.965 min Scan# 308

Delta R.T. 0.000 min

Lab File: VX025533.D

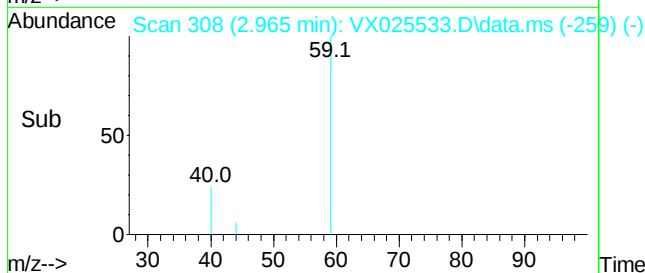
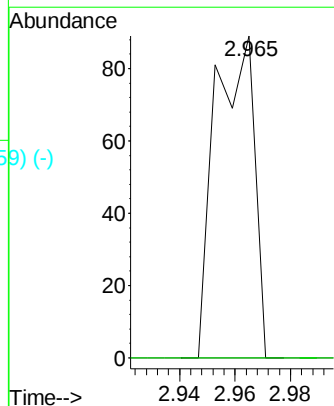
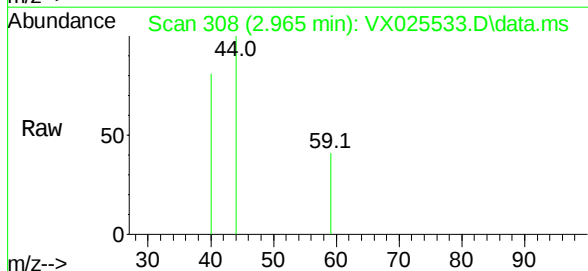
Acq: 04 Dec 2021 19:38

Tgt Ion: 59 Resp: 87

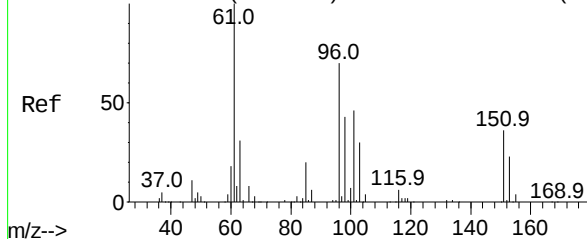
Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



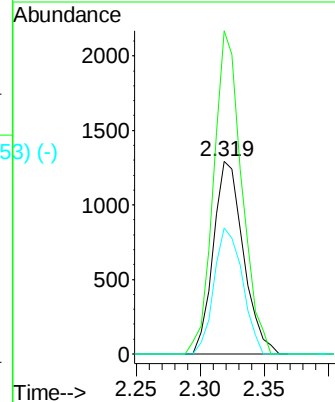
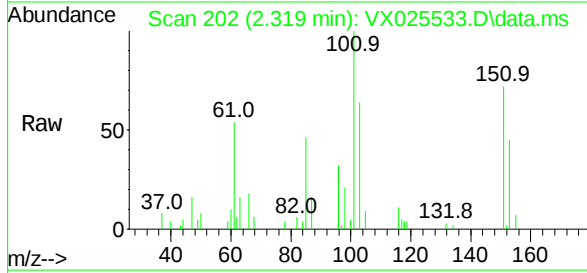
Abundance Scan 202 (2.319 min): VX025183.D\data.ms (-194) #12



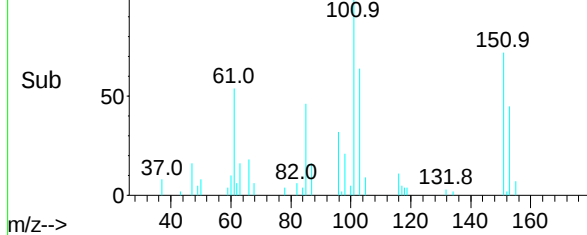
1,1-Dichloroethene
Concen: 2.22 ug/l
RT: 2.319 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

Instrument : MSVOA_X
ClientSampleId : TT101D-20211201

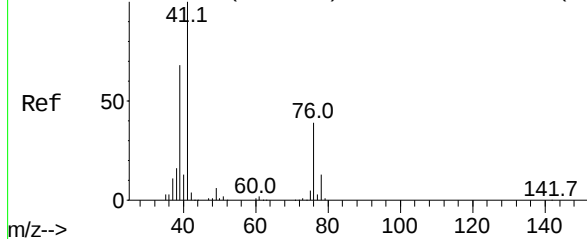
Tgt Ion:	96	Resp:	2101
Ion	Ratio	Lower	Upper
96	100		
61	167.7	134.1	201.1
98	65.6	51.5	77.3



Abundance Scan 202 (2.319 min): VX025533.D\data.ms (-153) (-)

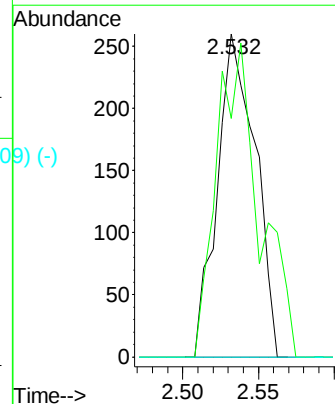
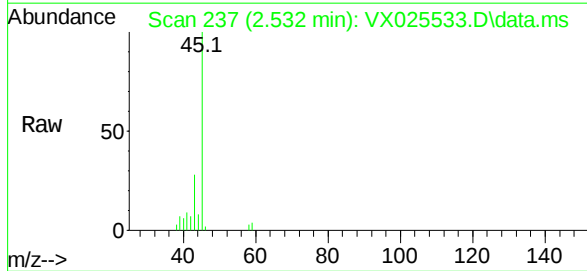


Abundance Scan 258 (2.660 min): VX025183.D\data.ms (-244) #14

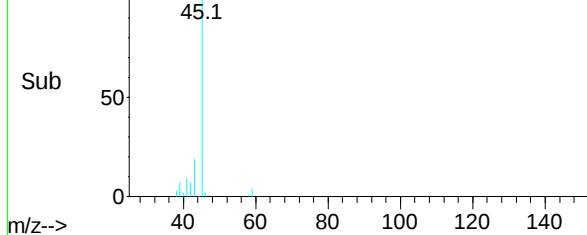


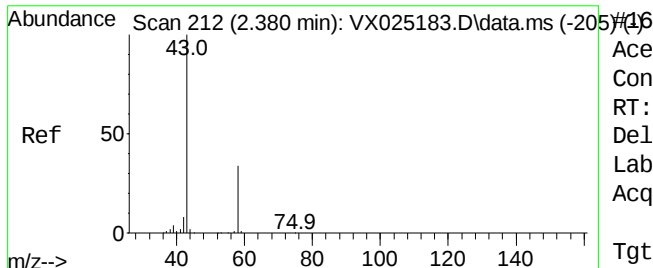
Allyl chloride
Concen: 0.27 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.128 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

Tgt Ion:	41	Resp:	454
Ion	Ratio	Lower	Upper
41	100		
39	110.1	54.6	82.0#
76	0.0	25.3	37.9#



Abundance Scan 237 (2.532 min): VX025533.D\data.ms (-209) (-)

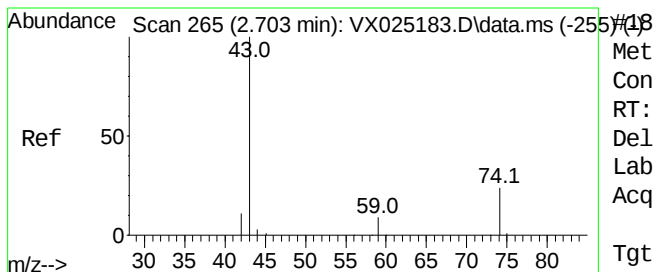
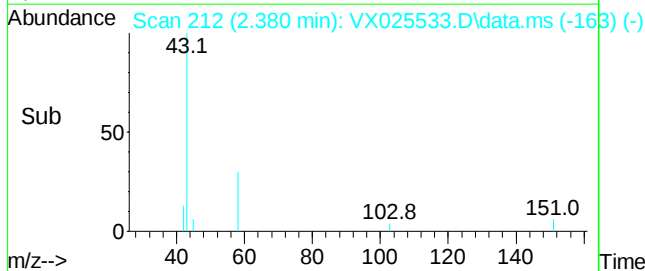
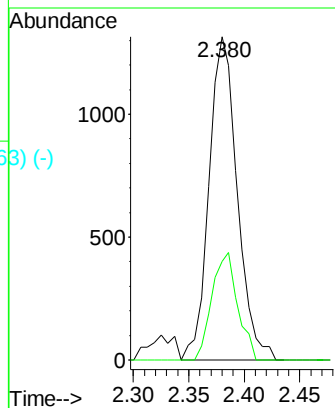
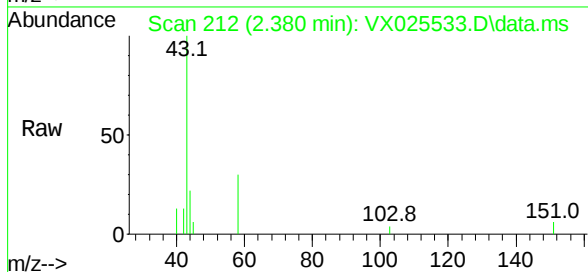




Acetone
Concen: 3.90 ug/l
RT: 2.380 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

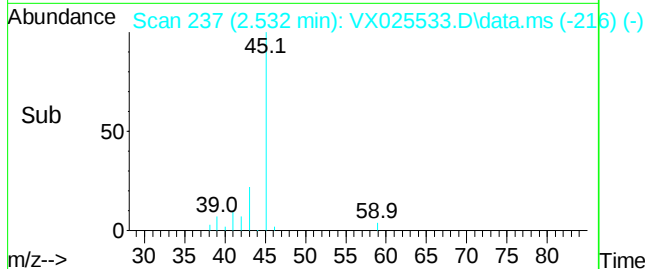
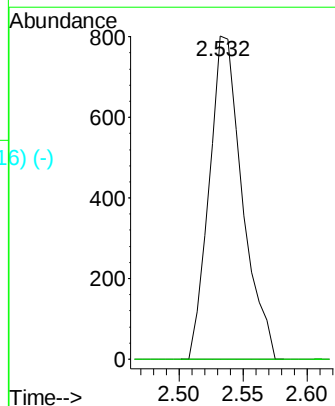
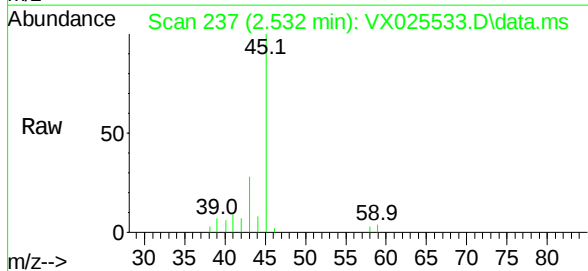
Instrument :
MSVOA_X
ClientSampleId :
TT101D-20211201

Tgt Ion: 43 Resp: 2333
Ion Ratio Lower Upper
43 100
58 30.5 24.0 36.0



Methyl Acetate
Concen: 0.75 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.171 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

Tgt Ion: 43 Resp: 1439
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.6#



Abundance Scan 414 (3.611 min): VX025183.D\data.ms (-403) #24

1,1-Dichloroethane

Concen: 0.82 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.000 min

Lab File: VX025533.D

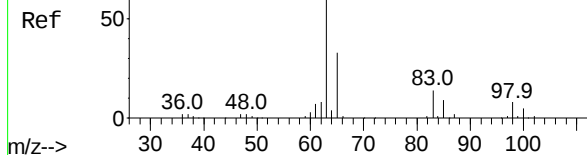
Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201



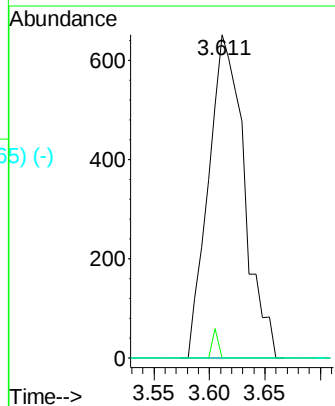
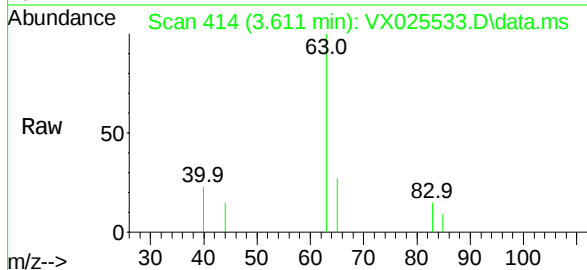
Tgt Ion: 63 Resp: 1456

Ion Ratio Lower Upper

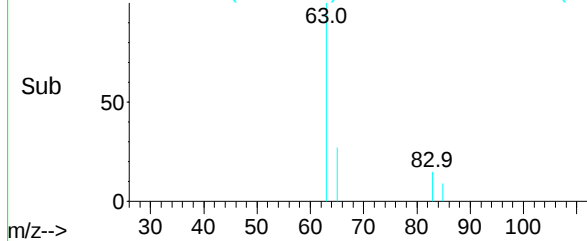
63 100

98 0.0 3.3 9.9#

100 0.0 2.1 6.2#



Abundance Scan 414 (3.611 min): VX025533.D\data.ms (-365) (-)



Abundance Scan 558 (4.489 min): VX025183.D\data.ms (-546) #27

cis-1,2-Dichloroethene

Concen: 2.98 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.012 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

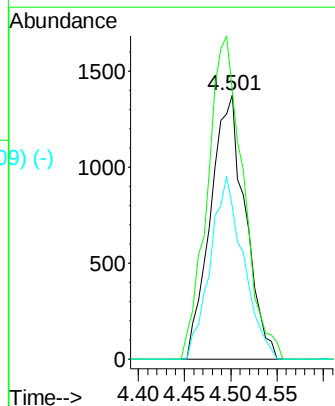
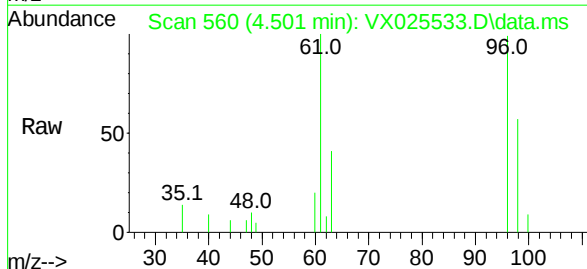
Tgt Ion: 96 Resp: 3601

Ion Ratio Lower Upper

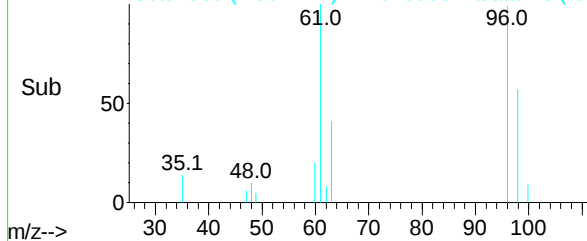
96 100

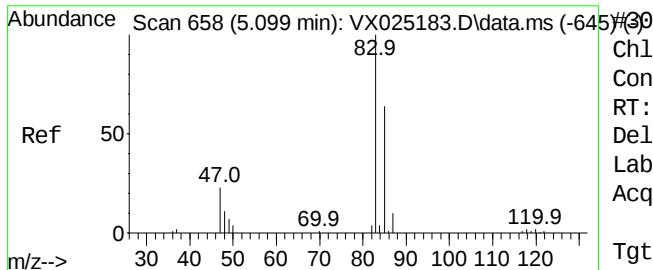
61 125.7 0.0 302.2

98 65.7 0.0 131.4



Abundance Scan 560 (4.501 min): VX025533.D\data.ms (-509) (-)





Chloroform

Concen: 0.49 ug/l

RT: 5.105 min Scan# 730

Delta R.T. 0.006 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

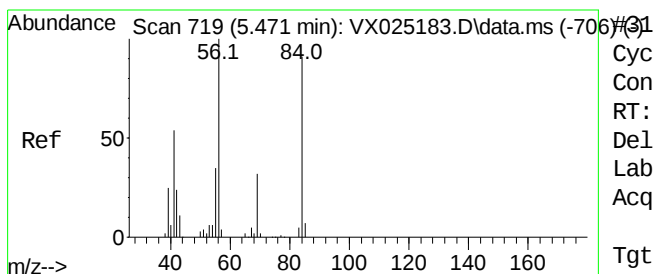
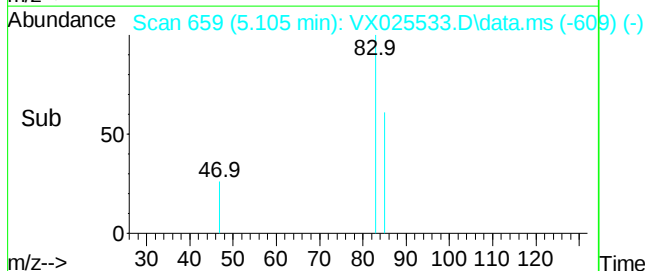
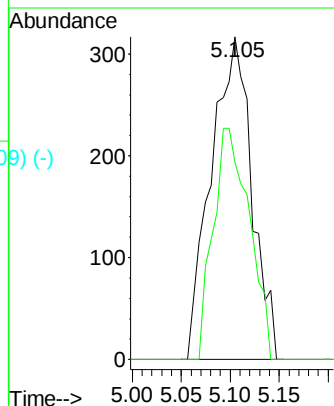
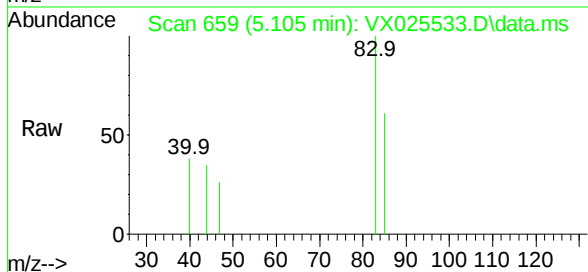
TT101D-20211201

Tgt Ion: 83 Resp: 917

Ion Ratio Lower Upper

83 100

85 61.2 50.2 75.2



Cyclohexane

Concen: 1.14 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.091 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

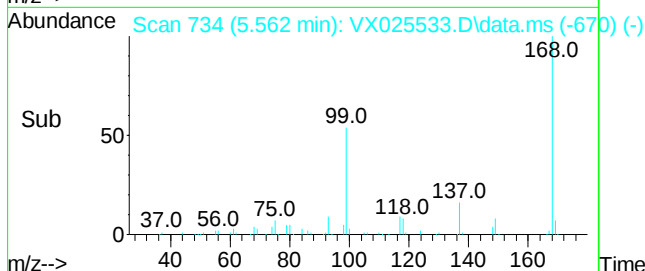
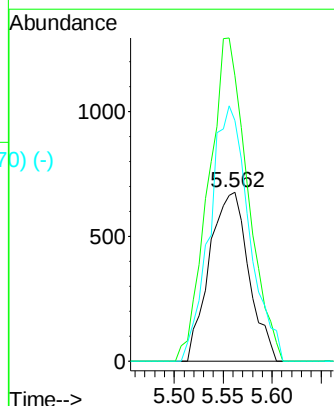
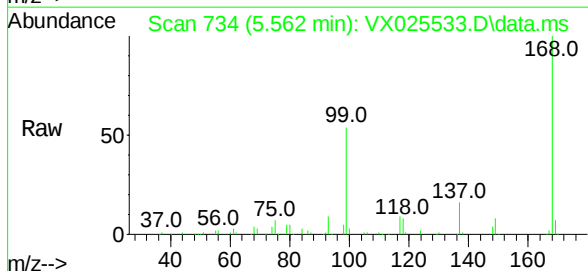
Tgt Ion: 56 Resp: 1891

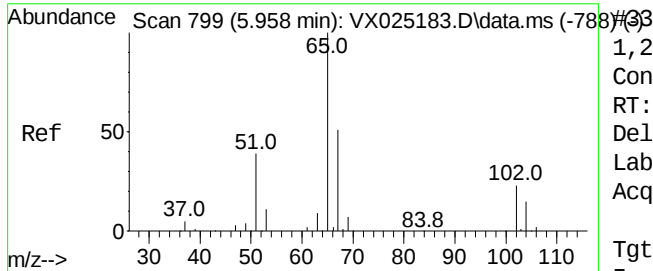
Ion Ratio Lower Upper

56 100

69 168.8 24.2 36.2#

84 142.2 71.5 107.3#

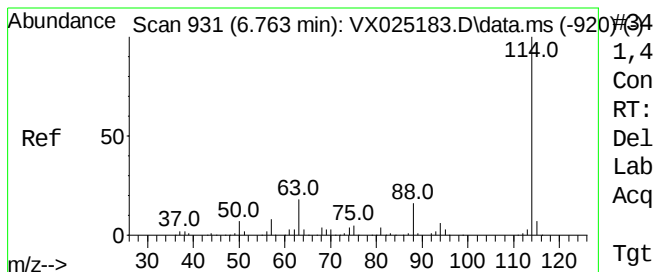
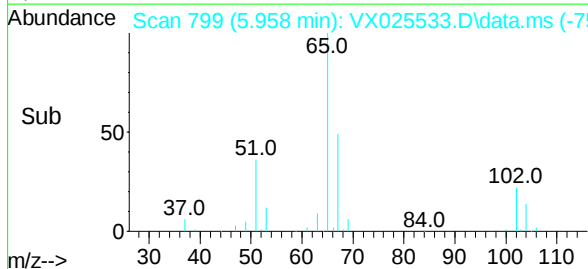
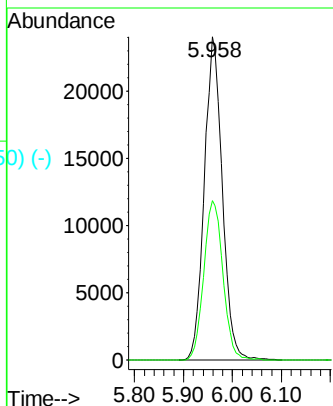
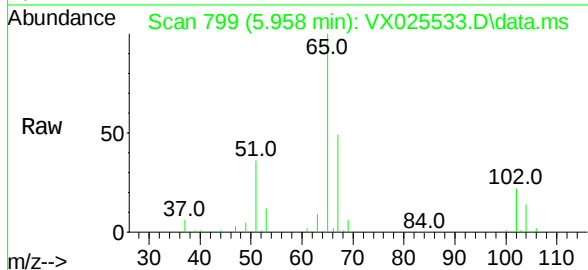




1,2-Dichloroethane-d4
 Concen: 57.06 ug/l
 RT: 5.958 min Scan#
 Delta R.T. 0.000 min
 Lab File: VX025533.D
 Acq: 04 Dec 2021 19:38

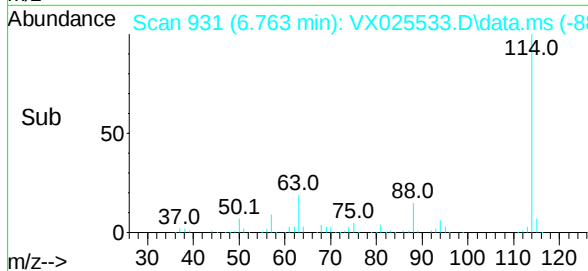
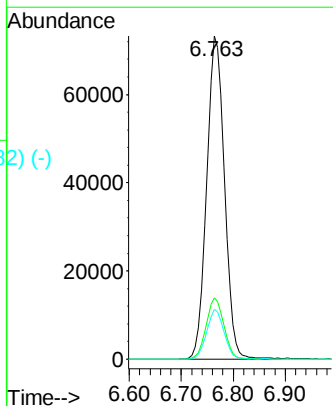
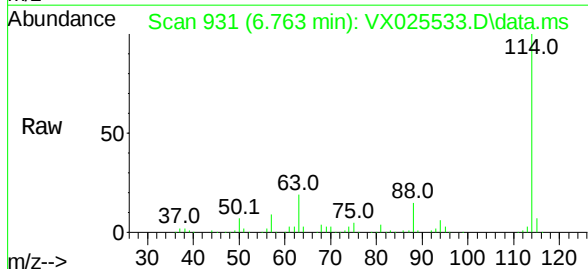
Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D-20211201

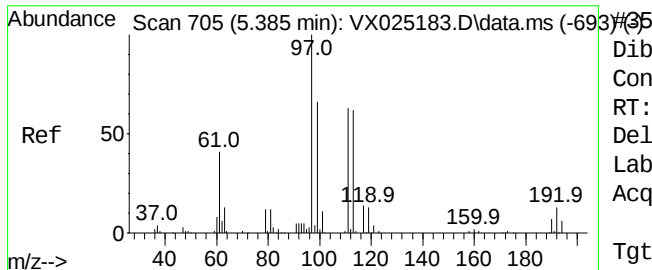
Tgt Ion: 65 Resp: 61358
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 101.0



1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX025533.D
 Acq: 04 Dec 2021 19:38

Tgt Ion: 114 Resp: 173301
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 41.0
 88 15.3 0.0 34.8

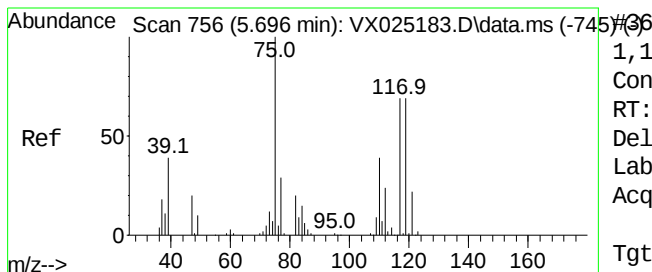
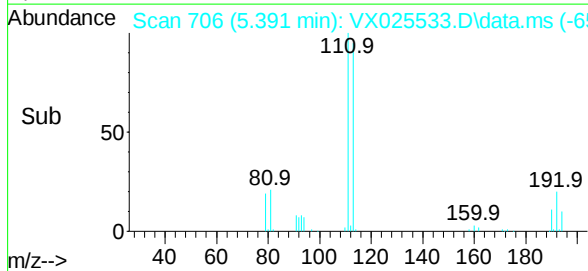
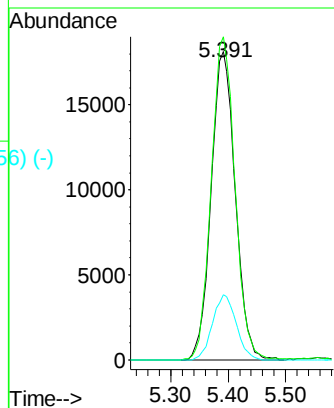
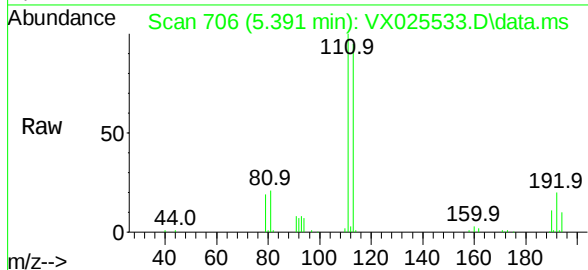




Dibromofluoromethane
Concen: 49.58 ug/l
RT: 5.391 min Scan# 735
Delta R.T. 0.006 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

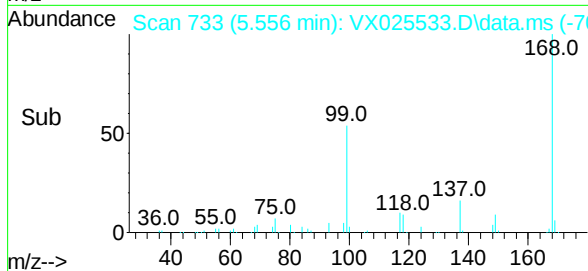
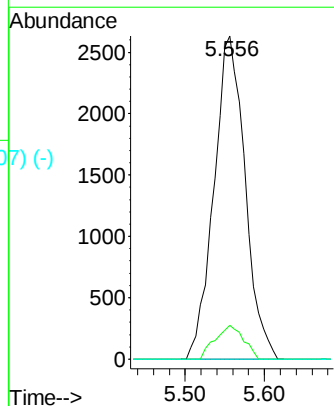
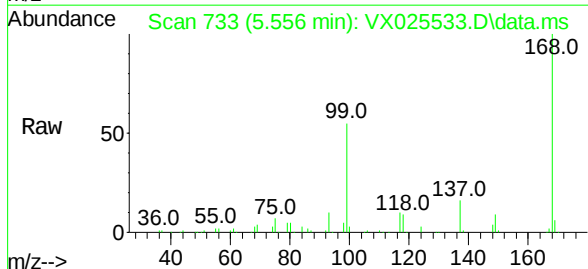
Instrument :
MSVOA_X
ClientSampleId :
TT101D-20211201

Tgt Ion:113 Resp: 52723
Ion Ratio Lower Upper
113 100
111 103.3 82.1 123.1
192 20.8 15.6 23.4



1,1-Dichloropropene
Concen: 4.76 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX025533.D
Acq: 04 Dec 2021 19:38

Tgt Ion: 75 Resp: 7194
Ion Ratio Lower Upper
75 100
110 9.5 18.1 54.3#
77 0.0 24.4 36.6#



Abundance Scan 753 (5.678 min): VX025183.D\data.ms (-742) #38

Carbon Tetrachloride

Concen: 5.90 ug/l

RT: 5.556 min Scan#

Delta R.T. -0.122 min

Lab File: VX025533.D

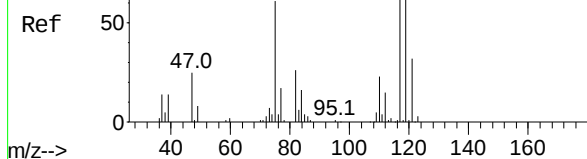
Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201



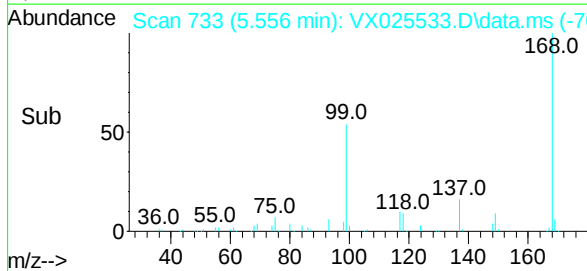
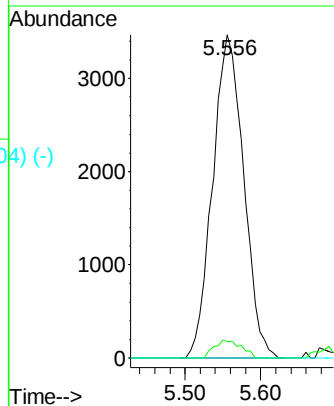
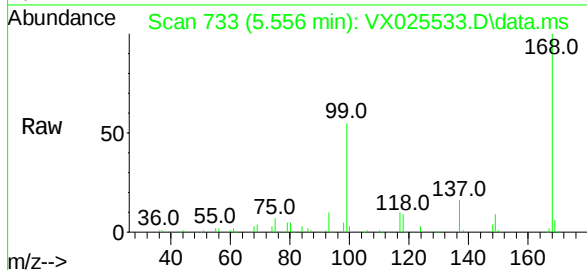
Tgt Ion: 117 Resp: 9826

Ion Ratio Lower Upper

117 100

119 5.0 75.6 113.4#

121 0.0 23.7 35.5#



Abundance Scan 1033 (7.385 min): VX025183.D\data.ms (-1029) #39

Methylcyclohexane

Concen: 0.72 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

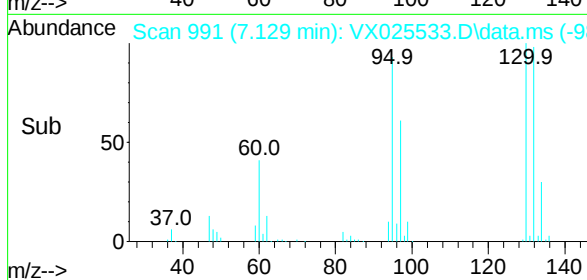
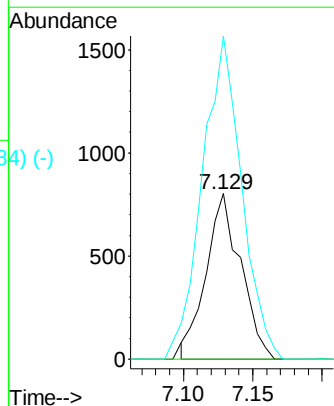
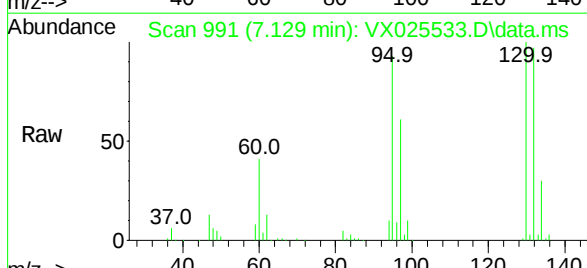
Tgt Ion: 83 Resp: 1391

Ion Ratio Lower Upper

83 100

55 0.0 60.8 91.2#

98 195.4 37.0 55.4#



Abundance Scan 820 (6.086 min): VX025183.D\data.ms (-804) #42

1,2-Dichloroethane

Concen: 0.23 ug/l

RT: 6.092 min Scan# 821

Delta R.T. 0.006 min

Lab File: VX025533.D

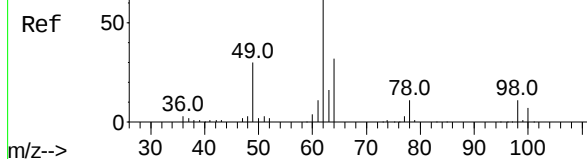
Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201

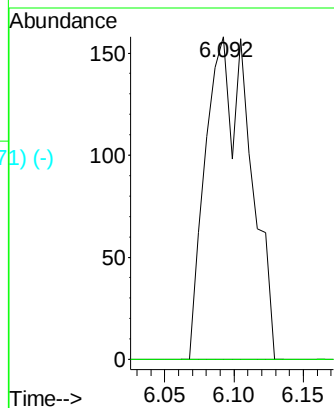
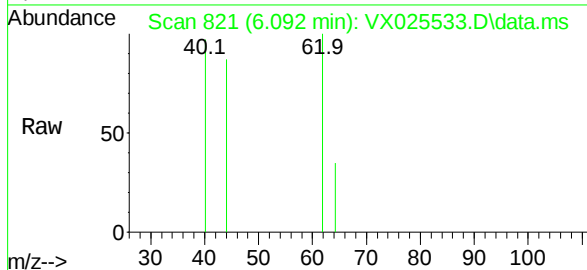


Tgt Ion: 62 Resp: 349

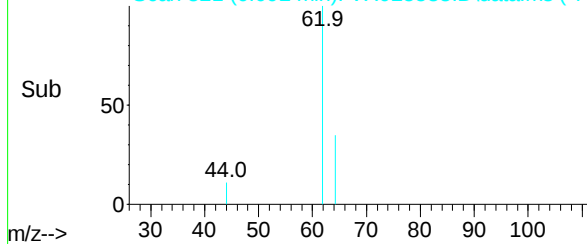
Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



Abundance Scan 821 (6.092 min): VX025533.D\data.ms (-771) (-)



Abundance Scan 991 (7.129 min): VX025183.D\data.ms (-981) #44

Trichloroethene

Concen: 98.09 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025533.D

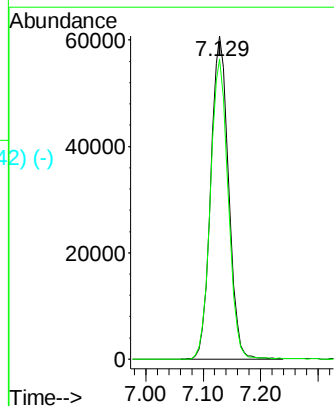
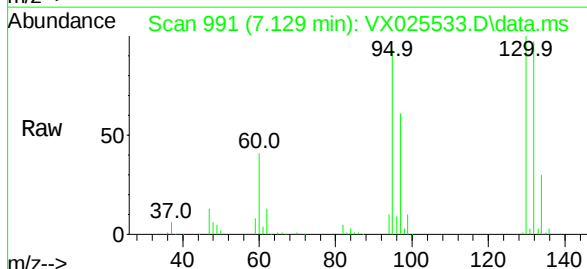
Acq: 04 Dec 2021 19:38

Tgt Ion: 130 Resp: 130516

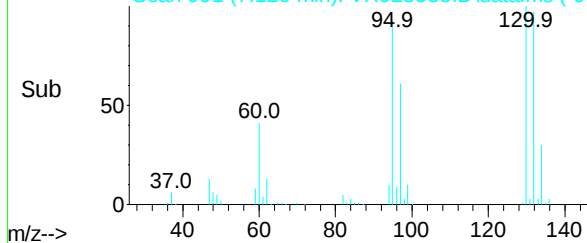
Ion Ratio Lower Upper

130 100

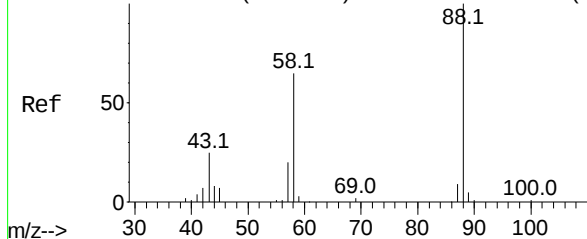
95 92.9 0.0 196.8



Abundance Scan 991 (7.129 min): VX025533.D\data.ms (-942) (-)



Abundance Scan 1078 (7.659 min): VX025183.D\data.ms (-10719-)



1,4-Dioxane

Concen: 14.70 ug/l

RT: 7.665 min Scan# 119

Delta R.T. 0.006 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201

Tgt Ion: 88 Resp: 417

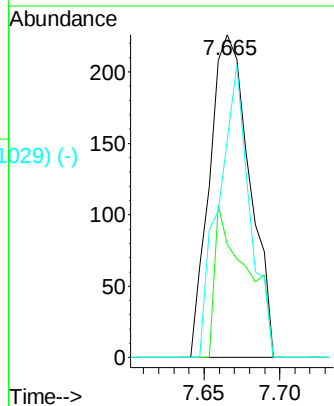
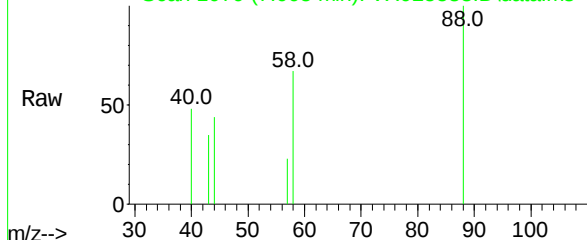
Ion Ratio Lower Upper

88 100

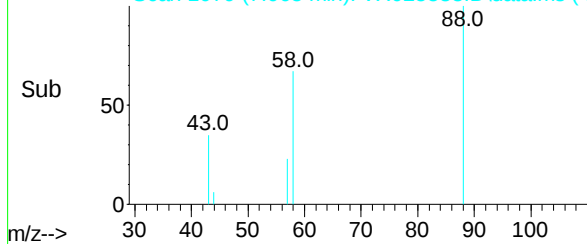
43 37.6 27.0 40.6

58 70.0 55.2 82.8

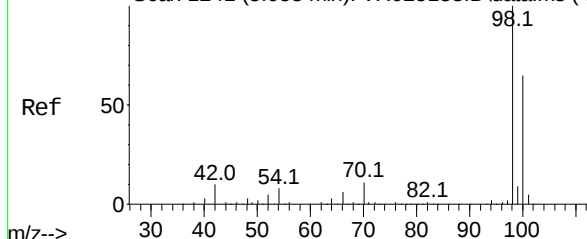
Abundance Scan 1079 (7.665 min): VX025533.D\data.ms



Abundance Scan 1079 (7.665 min): VX025533.D\data.ms (-1029-)



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



Toluene-d8

Concen: 49.96 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

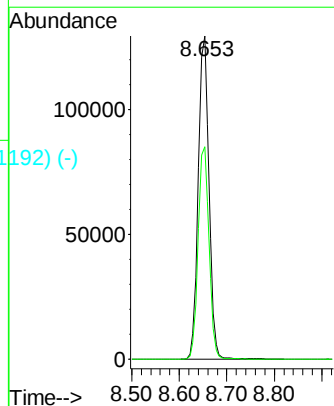
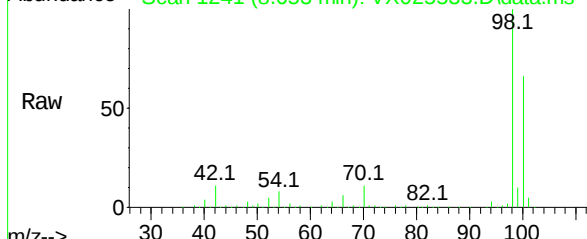
Tgt Ion: 98 Resp: 199725

Ion Ratio Lower Upper

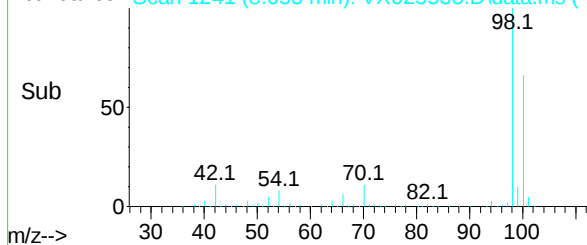
98 100

100 66.7 51.4 77.0

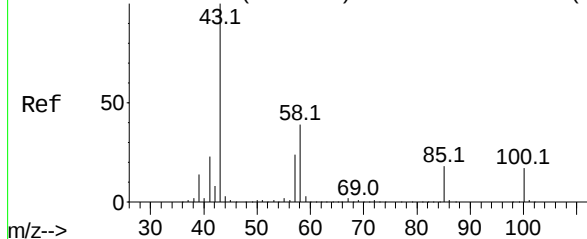
Abundance Scan 1241 (8.653 min): VX025533.D\data.ms



Abundance Scan 1241 (8.653 min): VX025533.D\data.ms (-1192-)



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



4-Methyl-2-Pentanone

Concen: 0.48 ug/l

RT: 8.647 min Scan# 1179

Delta R.T. 0.073 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

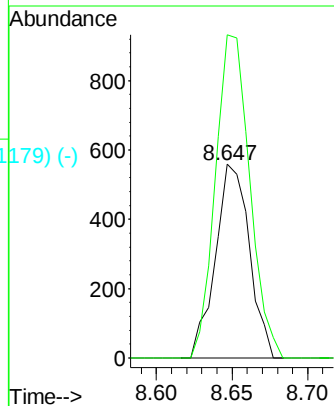
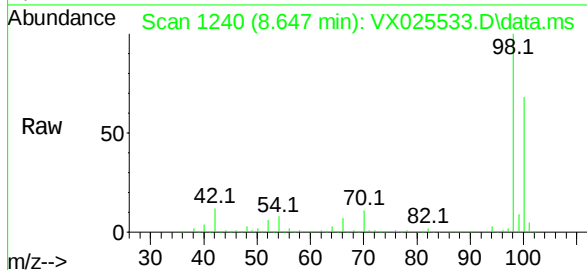
TT101D-20211201

Tgt Ion: 43 Resp: 867

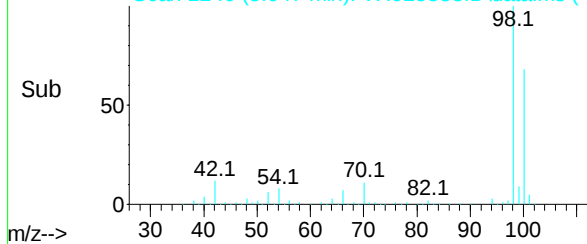
Ion Ratio Lower Upper

43 100

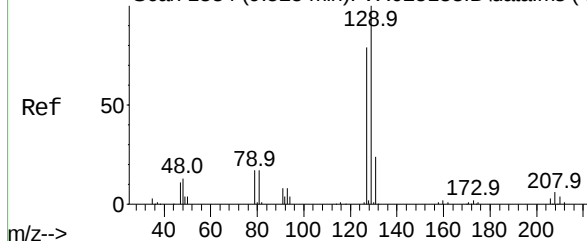
58 168.7 30.9 46.3#



Abundance Scan 1240 (8.647 min): VX025533.D\data.ms (-1179) (-)



Abundance Scan 1384 (9.525 min): VX025183.D\data.ms (-1376) (-)



Dibromochloromethane

Concen: 0.54 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX025533.D

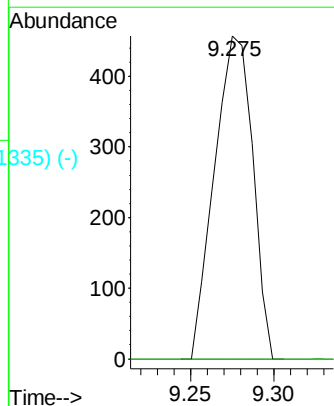
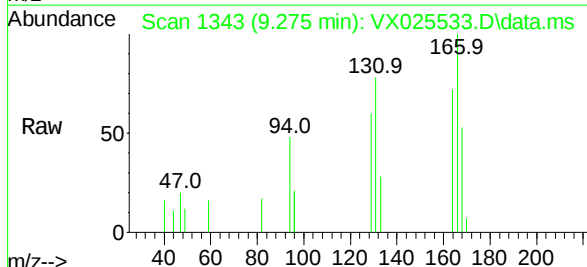
Acq: 04 Dec 2021 19:38

Tgt Ion: 129 Resp: 735

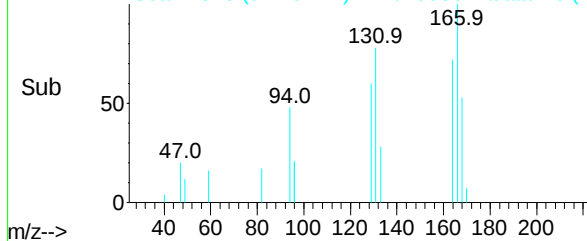
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Scan 1343 (9.275 min): VX025533.D\data.ms (-1335) (-)



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

4-Bromofluorobenzene

Concen: 48.19 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX025533.D

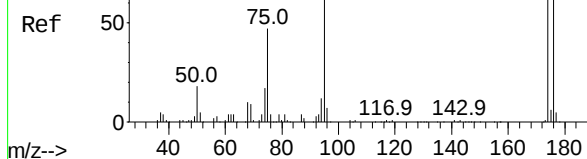
Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201



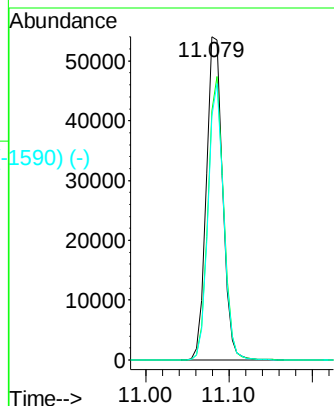
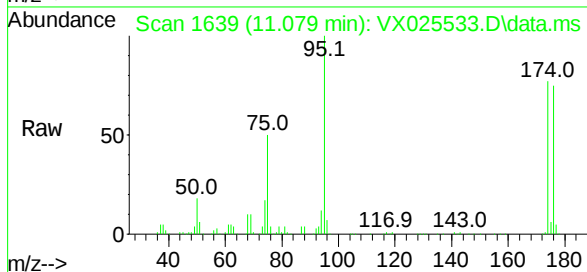
Tgt Ion: 95 Resp: 72883

Ion Ratio Lower Upper

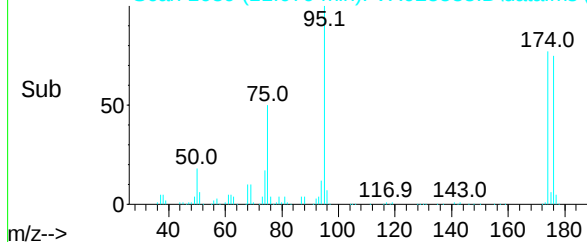
95 100

174 84.2 0.0 158.0

176 81.7 0.0 153.6



Abundance Scan 1639 (11.079 min): VX025533.D\data.ms (-1590) (-)



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: VX025533.D

Acq: 04 Dec 2021 19:38

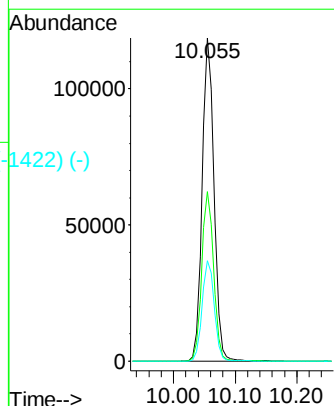
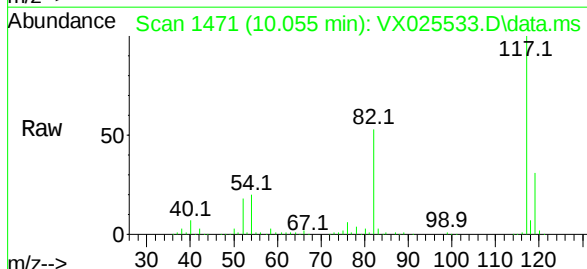
Tgt Ion: 117 Resp: 158443

Ion Ratio Lower Upper

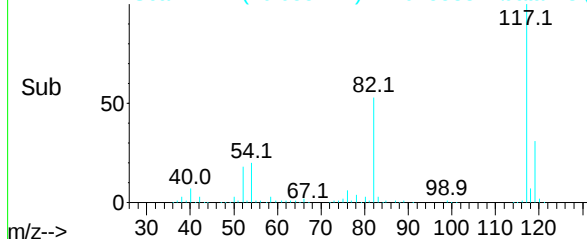
117 100

82 52.5 44.6 67.0

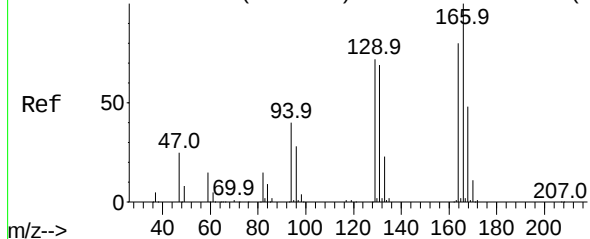
119 31.1 24.8 37.2



Abundance Scan 1471 (10.055 min): VX025533.D\data.ms (-1422) (-)



Abundance Scan 1343 (9.275 min): VX025183.D\data.ms (-13364)



Tetrachloroethene

Concen: 0.63 ug/l

RT: 9.275 min Scan#

Delta R.T. -0.000 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20211201

Tgt Ion:164 Resp: 823

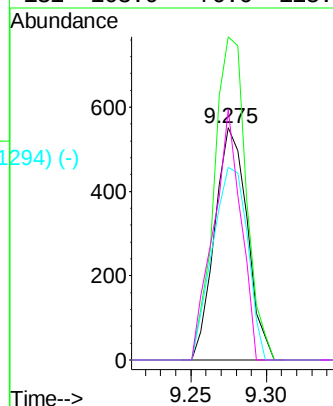
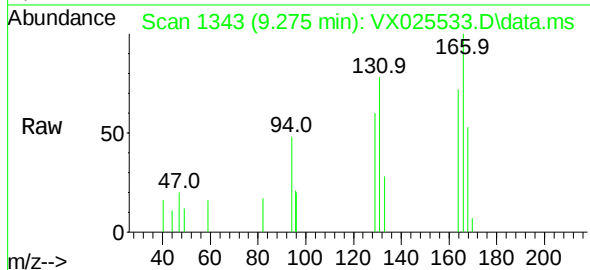
Ion Ratio Lower Upper

164 100

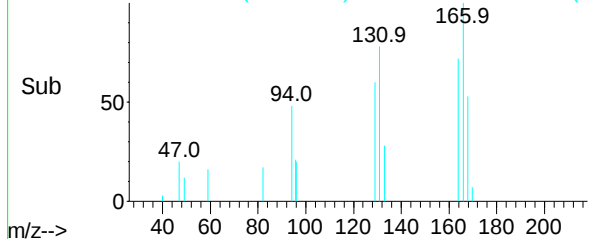
166 139.2 103.2 154.8

129 82.9 81.0 121.4

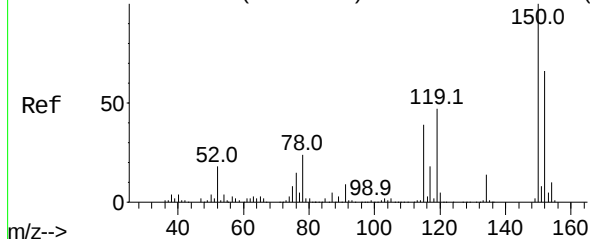
131 108.0 76.6 115.0



Abundance Scan 1343 (9.275 min): VX025533.D\data.ms (-1294) (-)



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# 1794

Delta R.T. 0.000 min

Lab File: VX025533.D

Acq: 04 Dec 2021 19:38

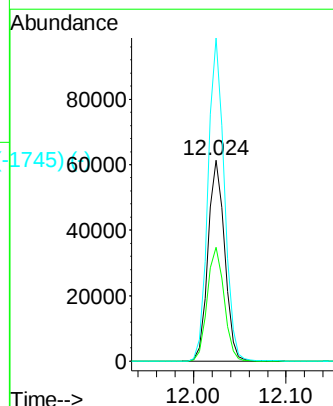
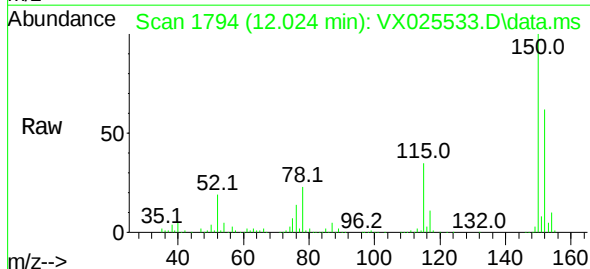
Tgt Ion:152 Resp: 76418

Ion Ratio Lower Upper

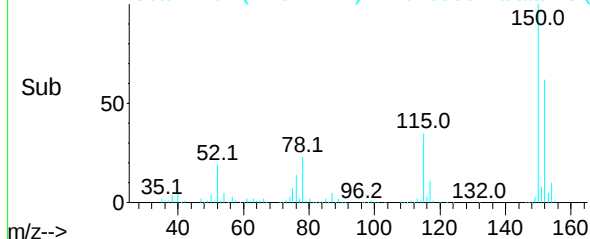
152 100

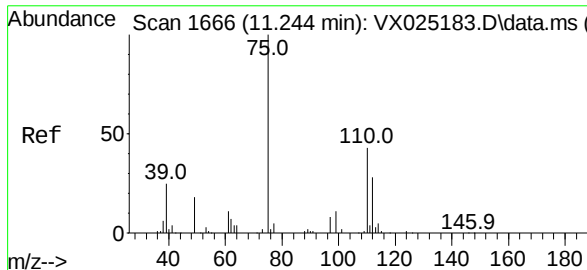
115 57.5 43.3 129.8

150 157.5 0.0 351.2



Abundance Scan 1794 (12.024 min): VX025533.D\data.ms (-1745) (-)

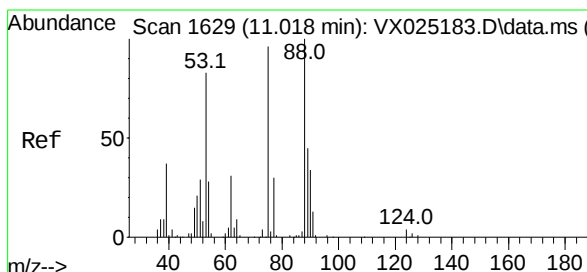
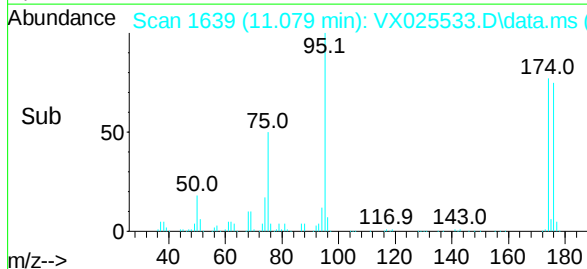
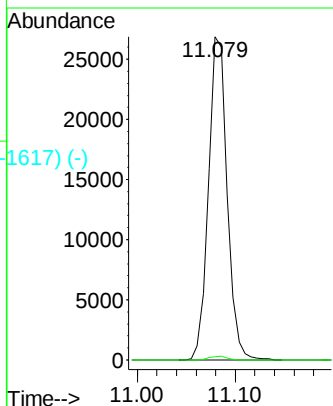
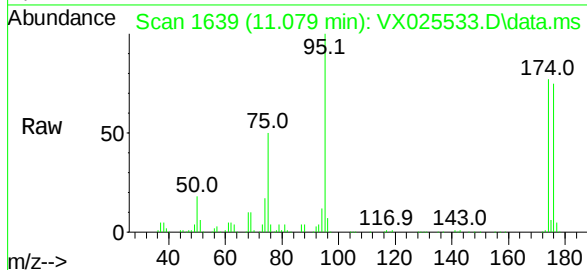




Scan 1666 (11.244 min): VX025183.D\data.ms (-1675) (-)
 1,2,3-Trichloropropane
 Concen: 22.69 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.165 min
 Lab File: VX025533.D
 Acq: 04 Dec 2021 19:38

Instrument : MSVOA_X
 ClientSampleId : TT101D-20211201

Tgt Ion: 75 Resp: 35509
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.0 59.9#



Scan 1629 (11.018 min): VX025183.D\data.ms (-1624) (-)
 trans-1,4-Dichloro-2-butene
 Concen: 57.16 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX025533.D
 Acq: 04 Dec 2021 19:38

Tgt Ion: 75 Resp: 35509
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.9 122.9#
 89 0.0 38.2 57.2#

