

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101922\
 Data File : VX032221.D
 Acq On : 19 Oct 2022 20:28
 Operator : JC/MD
 Sample : N5170-08 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRE-1666

Quant Time: Oct 20 04:31:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101922W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 19 16:51:09 2022
 Response via : Initial Calibration

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

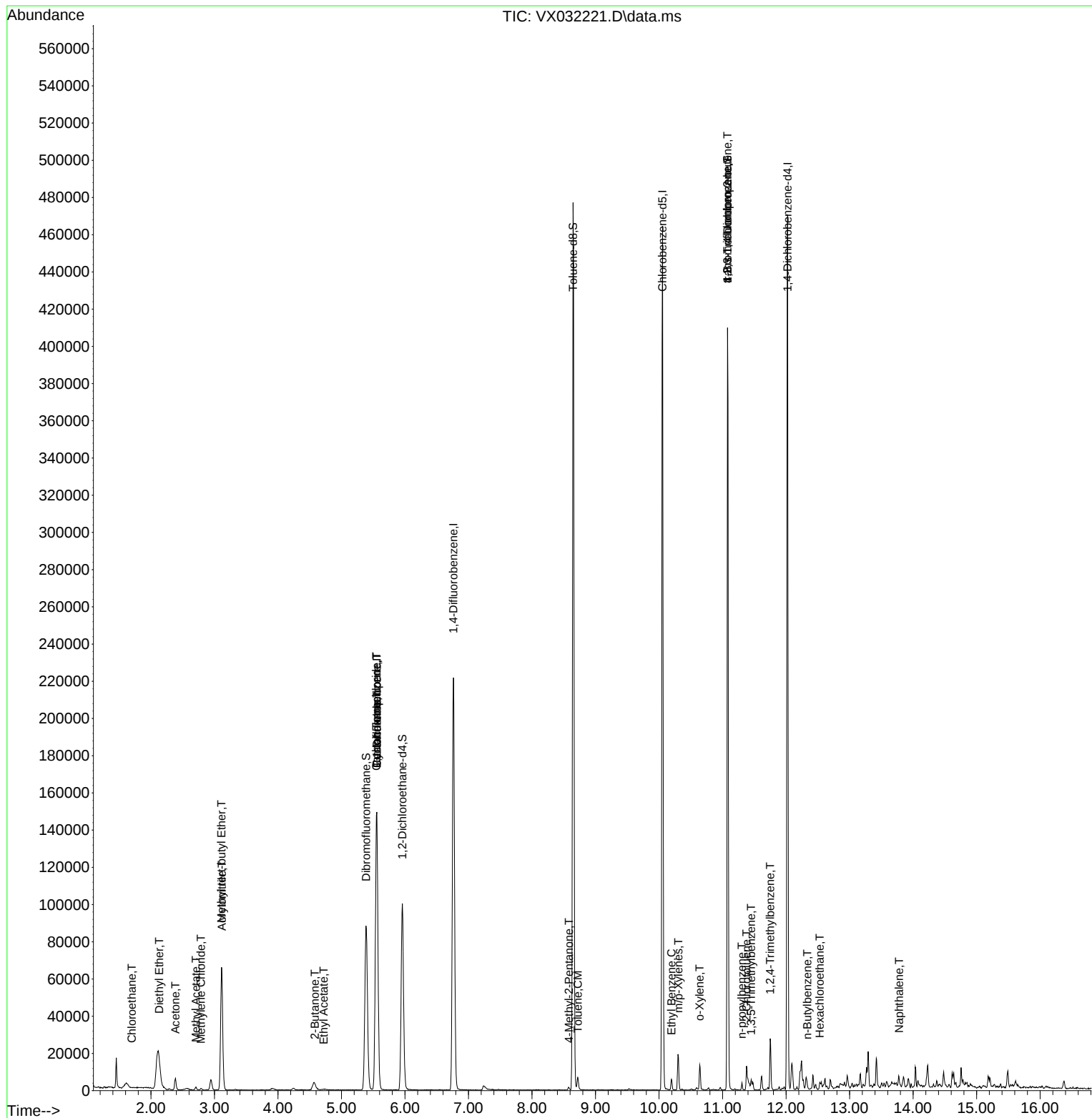
Internal Standards						
1) Pentafluorobenzene	5.556	168	140254	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	224659	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	198508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95297	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97875	53.643	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.280%			
35) Dibromofluoromethane	5.385	113	76564	48.975	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.960%			
50) Toluene-d8	8.647	98	281384	50.002	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.000%			
62) 4-Bromofluorobenzene	11.079	95	100668	48.851	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.700%			
Target Compounds					Qvalue	
3) Chloromethane	1.301	50	110	Below Cal	#	44
6) Chloroethane	1.697	64	202	2.093	ug/l #	41
8) Diethyl Ether	2.130	74	384	0.460	ug/l #	4
11) Tert butyl alcohol	2.947	59	3472	Below Cal	#	74
15) Acrylonitrile	3.117	53	884	1.292	ug/l #	20
16) Acetone	2.386	43	6871	11.604	ug/l	98
18) Methyl Acetate	2.709	43	1895	0.943	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	70970	16.452	ug/l	98
20) Methylene Chloride	2.788	84	395	0.260	ug/l #	84
25) 2-Butanone	4.580	43	950	1.028	ug/l #	48
31) Cyclohexane	5.556	56	3267	1.566	ug/l #	18
36) 1,1-Dichloropropene	5.556	75	10957	5.449	ug/l #	49
37) Ethyl Acetate	4.721	43	572	0.291	ug/l #	68
38) Carbon Tetrachloride	5.550	117	14473	6.817	ug/l #	16
51) 4-Methyl-2-Pentanone	8.580	43	982	0.507	ug/l #	84
52) Toluene	8.720	92	2404	0.637	ug/l	84
67) Ethyl Benzene	10.195	91	3258	0.452	ug/l	93
68) m/p-Xylenes	10.305	106	4416	1.552	ug/l	92
69) o-Xylene	10.640	106	3058	1.122	ug/l	92
76) 1,2,3-Trichloropropane	11.079	75	54770	29.006	ug/l #	45
78) n-propylbenzene	11.305	91	2163	0.278	ug/l	98
79) 2-Chlorotoluene	11.378	91	1390	0.296	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.451	105	2570	0.438	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.079	75	54770	88.855	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.750	105	11756	2.059	ug/l	100
89) n-Butylbenzene	12.335	91	1249	0.235	ug/l #	41
90) Hexachloroethane	12.530	117	328	0.350	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	12.707	75	19	Below Cal	#	1
95) Naphthalene	13.780	128	3417	0.520	ug/l	98

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

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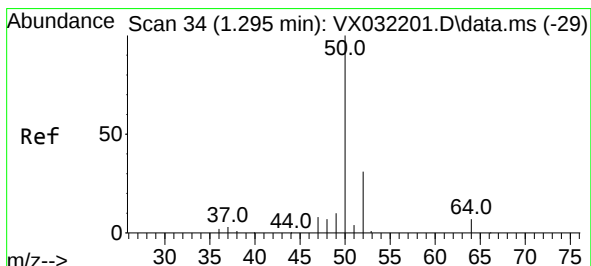
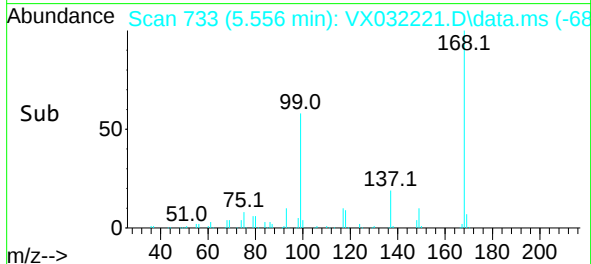
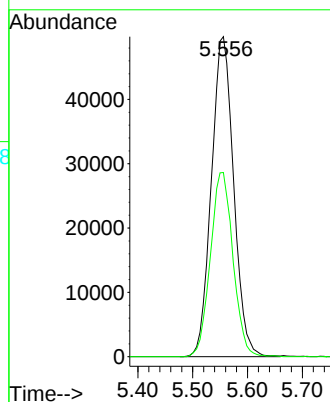
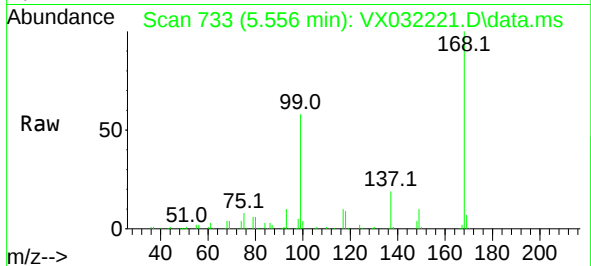




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

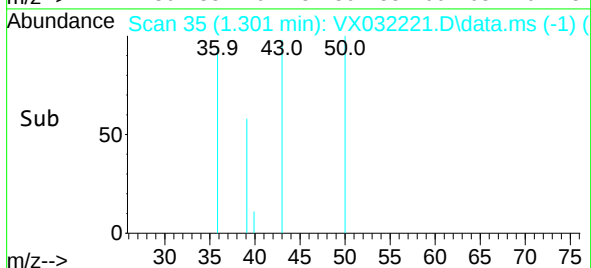
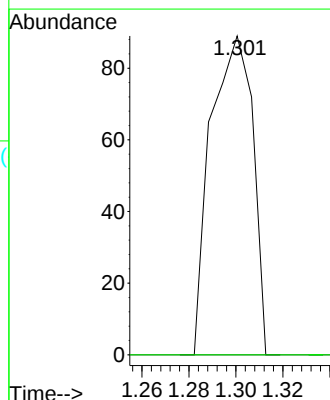
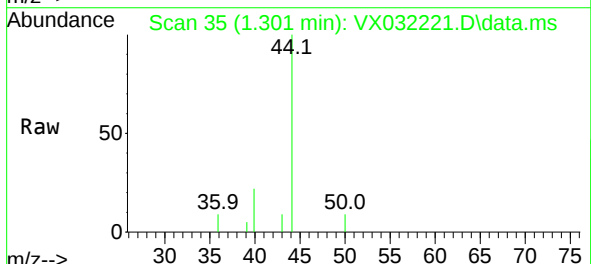
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

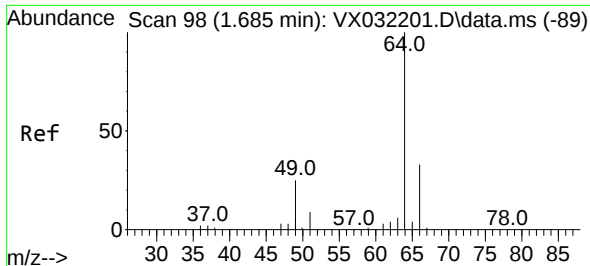
Tgt Ion:168 Resp: 140254
Ion Ratio Lower Upper
168 100
99 57.6 44.8 67.2



#3
Chloromethane
Concen: Below Cal
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 50 Resp: 110
Ion Ratio Lower Upper
50 100
52 0.0 24.7 37.1#

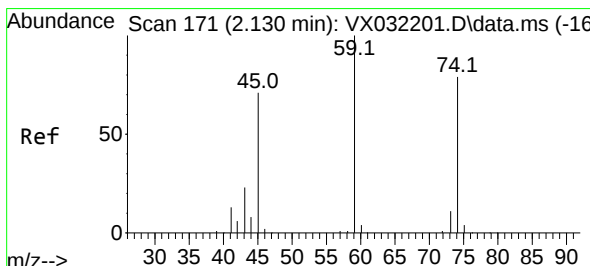
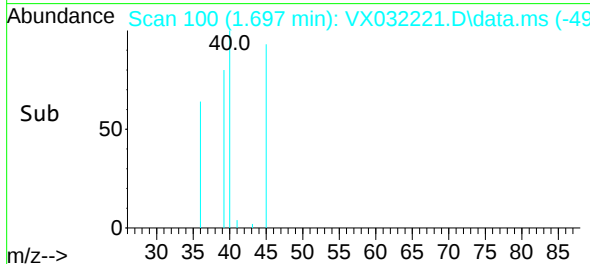
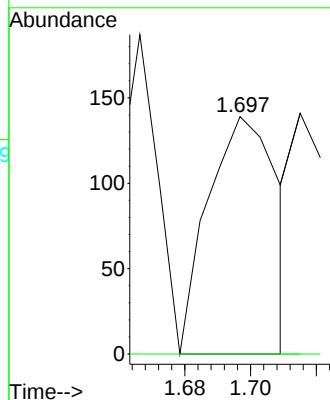
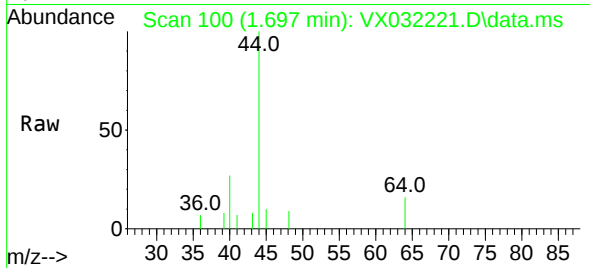




#6
Chloroethane
Concen: 2.093 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.012 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

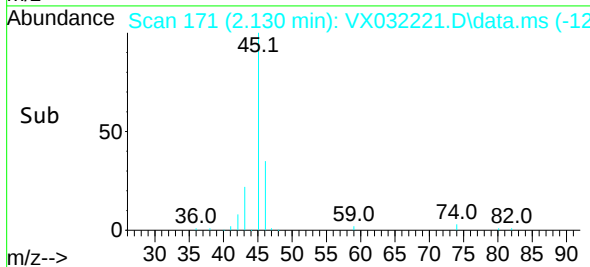
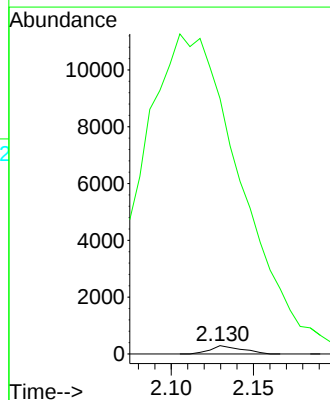
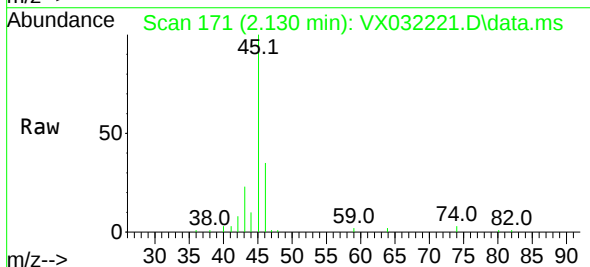
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

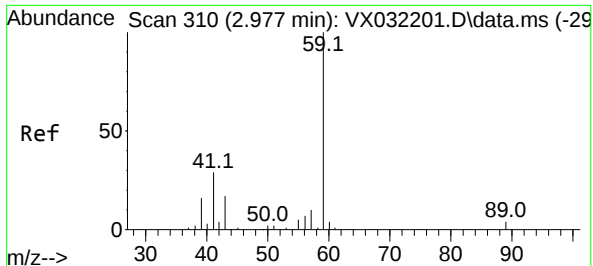
Tgt Ion: 64 Resp: 202
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#



#8
Diethyl Ether
Concen: 0.460 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 74 Resp: 384
Ion Ratio Lower Upper
74 100
45 0.0 45.9 137.6#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 30

Delta R.T. -0.030 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

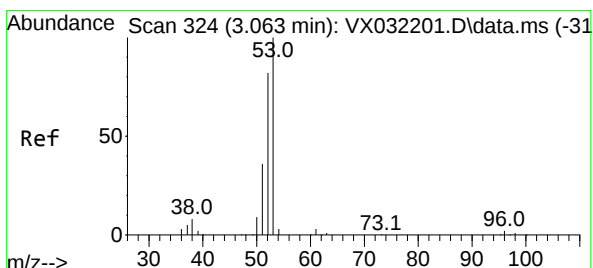
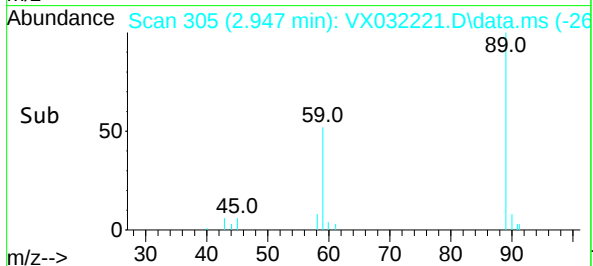
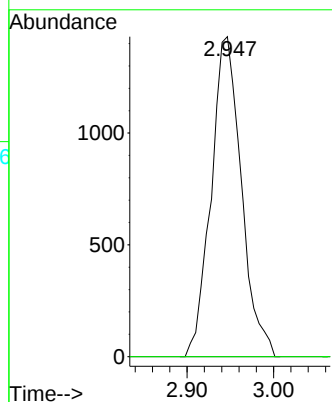
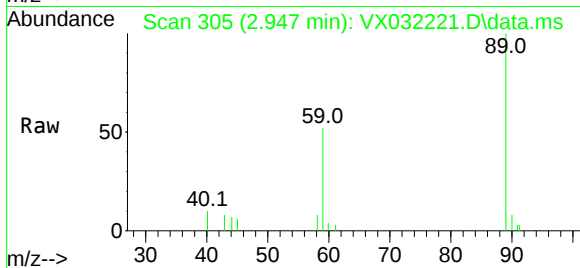
TRE-1666

Tgt Ion: 59 Resp: 3472

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



#15

Acrylonitrile

Concen: 1.292 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.054 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

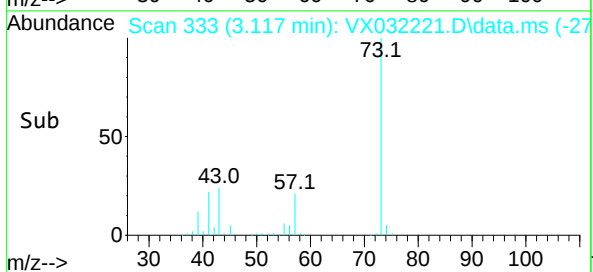
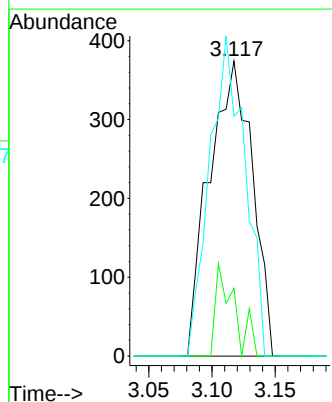
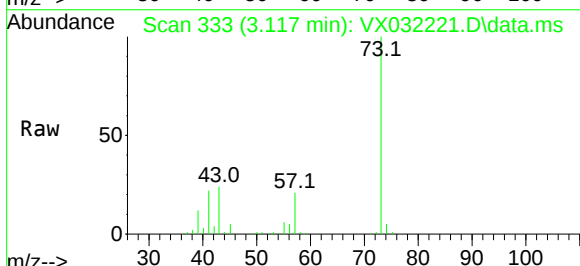
Tgt Ion: 53 Resp: 884

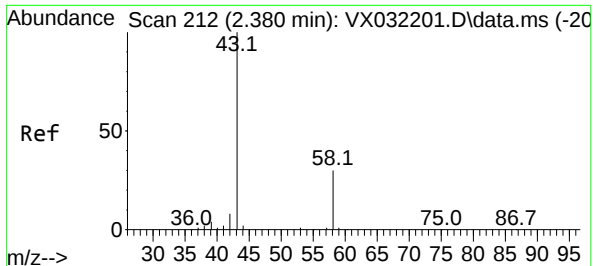
Ion Ratio Lower Upper

53 100

52 13.7 65.9 98.9#

51 89.0 29.7 44.5#

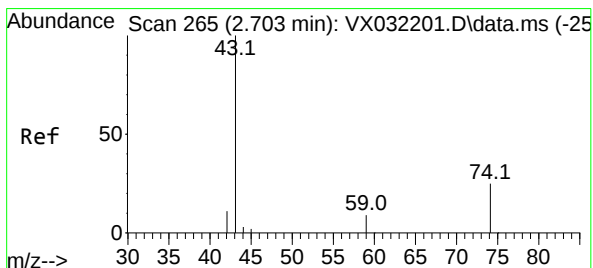
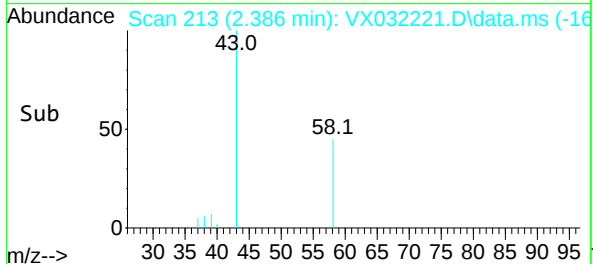
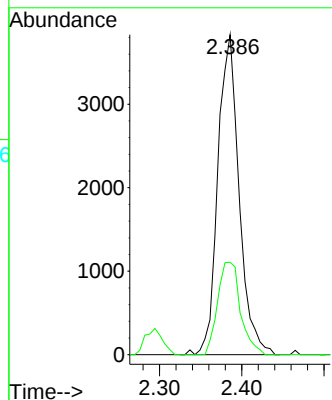
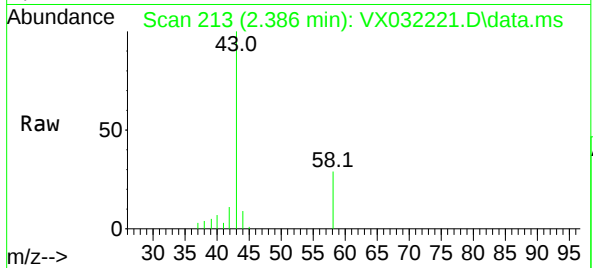




#16
Acetone
Concen: 11.604 ug/l
RT: 2.386 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

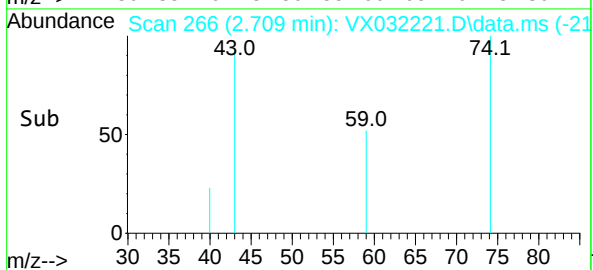
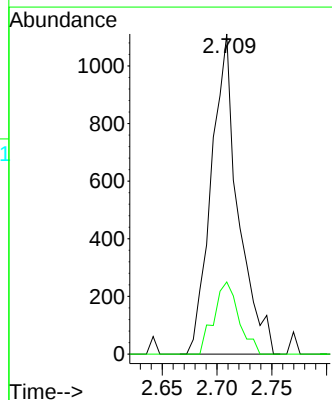
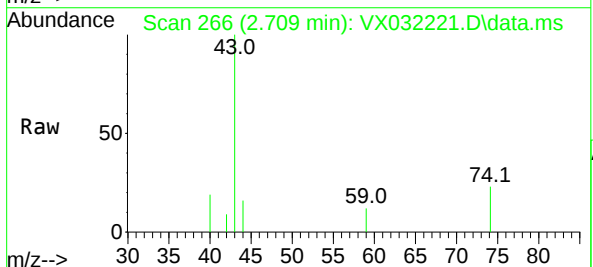
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

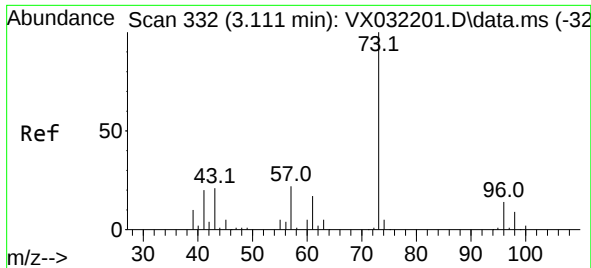
Tgt Ion: 43 Resp: 6871
Ion Ratio Lower Upper
43 100
58 28.9 24.2 36.2



#18
Methyl Acetate
Concen: 0.943 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 43 Resp: 1895
Ion Ratio Lower Upper
43 100
74 20.8 19.8 29.8

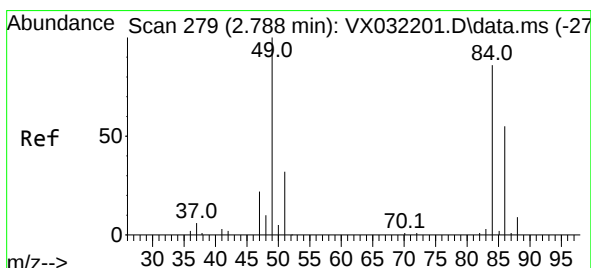
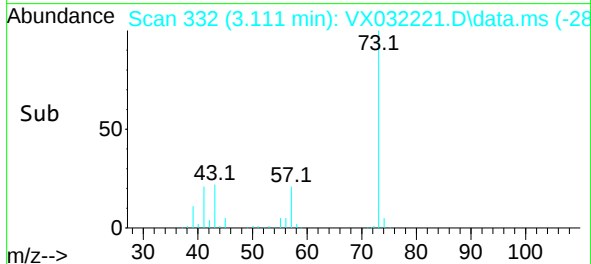
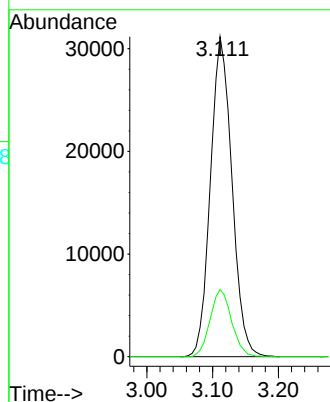
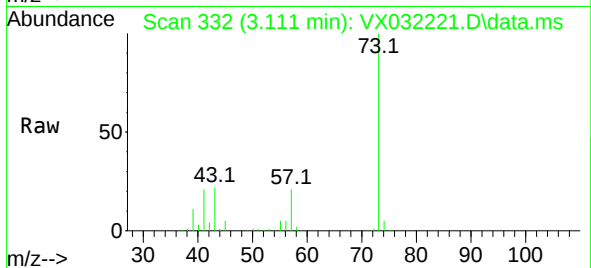




#19
Methyl tert-butyl Ether
Concen: 16.452 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

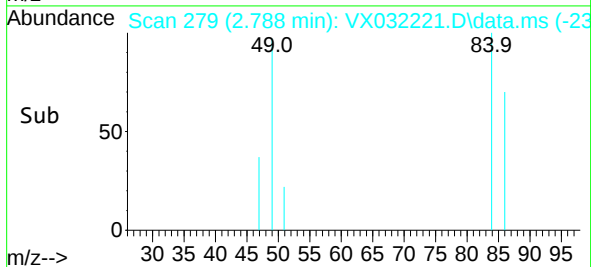
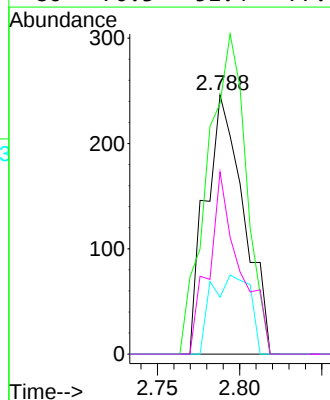
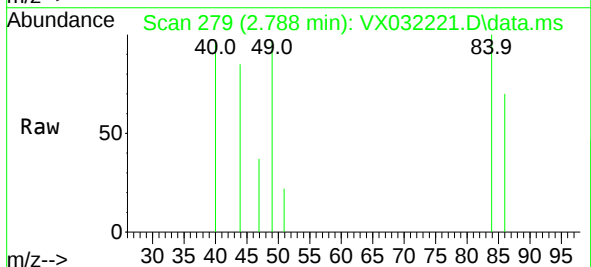
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

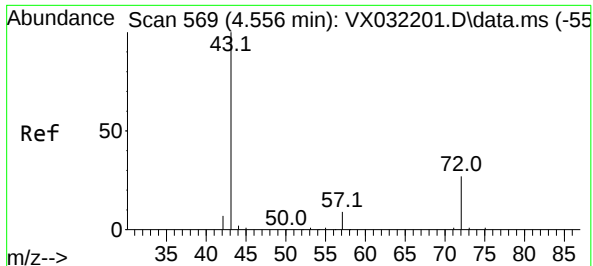
Tgt Ion: 73 Resp: 70970
Ion Ratio Lower Upper
73 100
57 21.0 17.4 26.2



#20
Methylene Chloride
Concen: 0.260 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 84 Resp: 395
Ion Ratio Lower Upper
84 100
49 96.7 92.6 139.0
51 22.0 29.2 43.8#
86 70.3 51.4 77.0

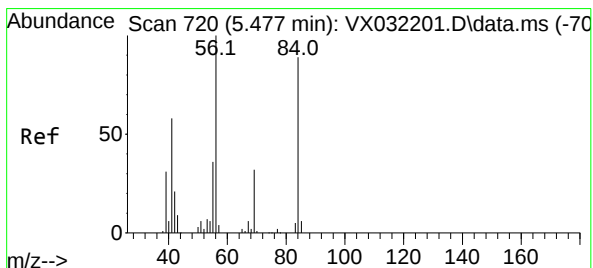
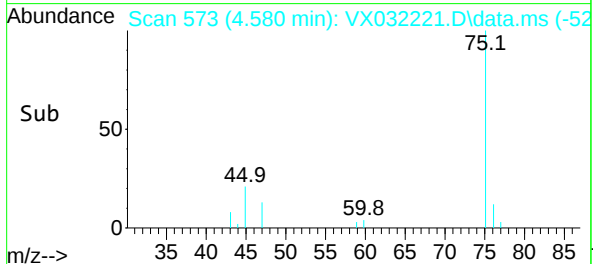
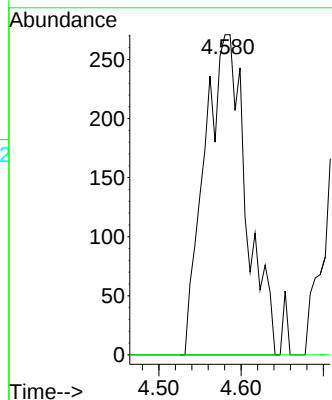
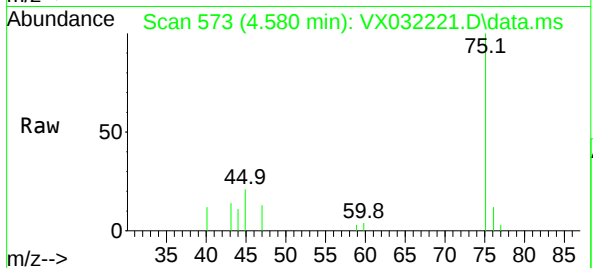




#25
2-Butanone
Concen: 1.028 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

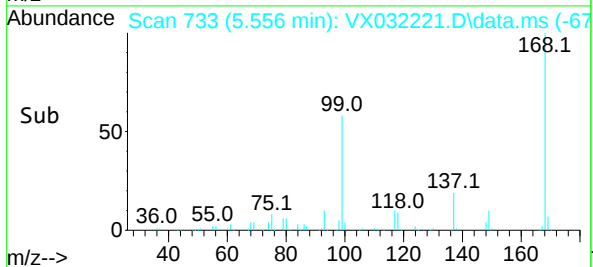
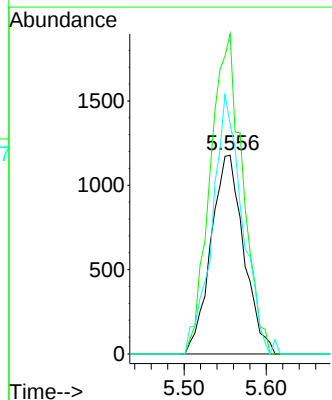
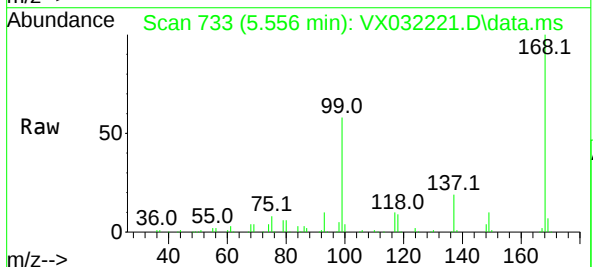
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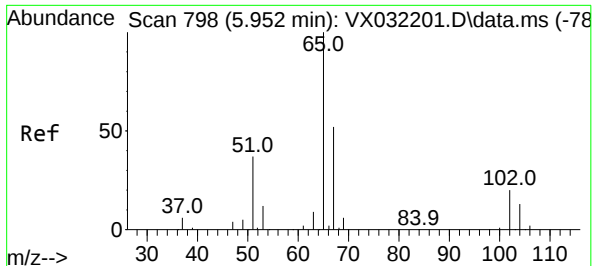
Tgt Ion: 43 Resp: 950
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#



#31
Cyclohexane
Concen: 1.566 ug/l
RT: 5.556 min Scan# 733
Delta R.T. 0.079 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 56 Resp: 3267
Ion Ratio Lower Upper
56 100
69 161.0 25.4 38.0#
84 115.8 71.2 106.8#





#33

1,2-Dichloroethane-d4

Concen: 53.643 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

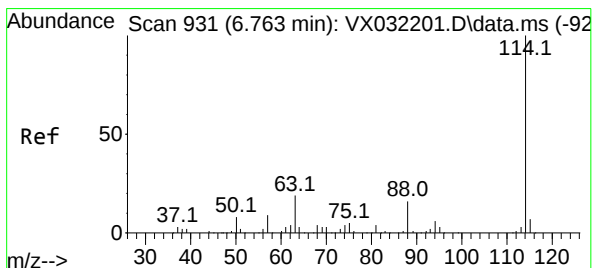
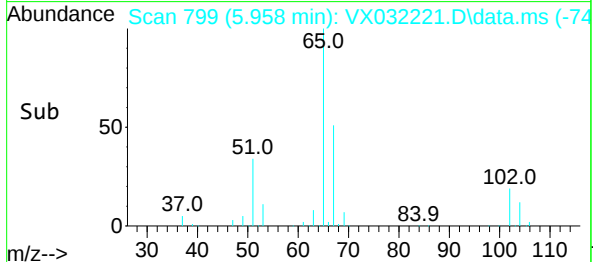
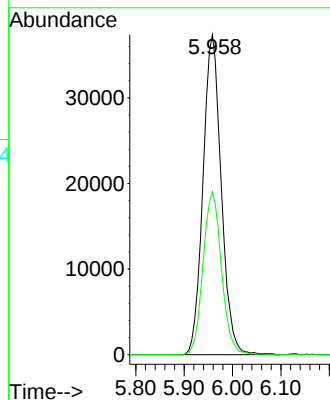
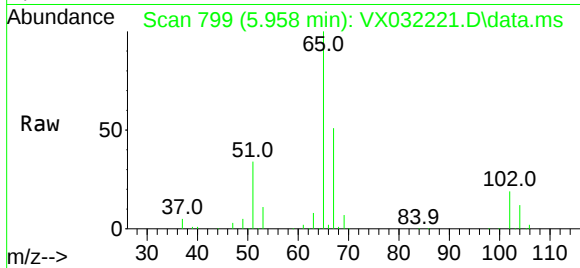
TRE-1666

Tgt Ion: 65 Resp: 97875

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

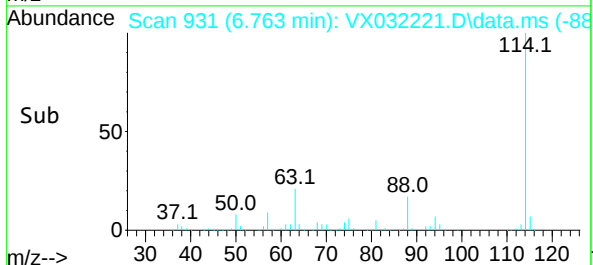
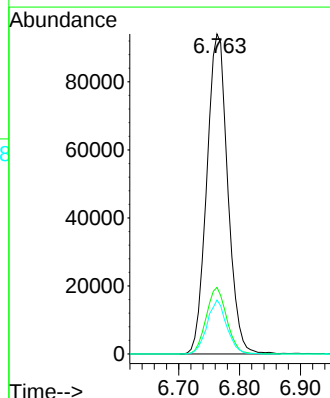
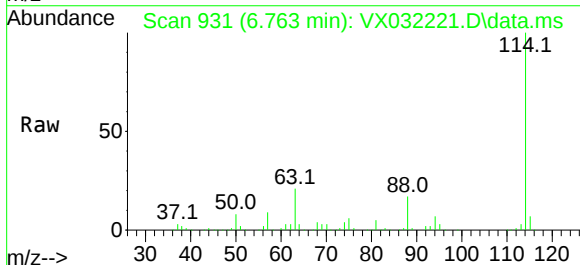
Tgt Ion: 114 Resp: 224659

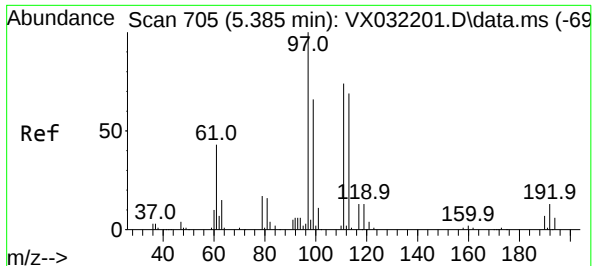
Ion Ratio Lower Upper

114 100

63 20.8 0.0 38.6

88 16.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.975 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

TRE-1666

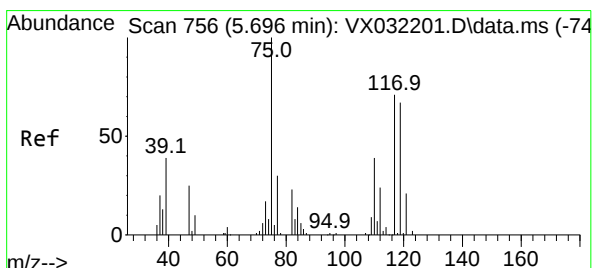
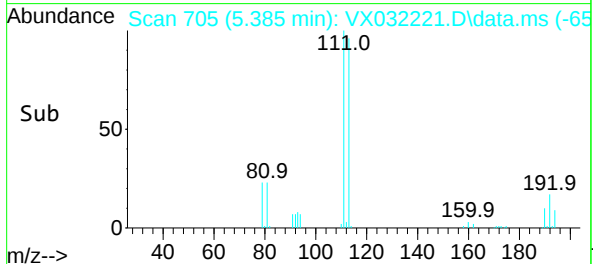
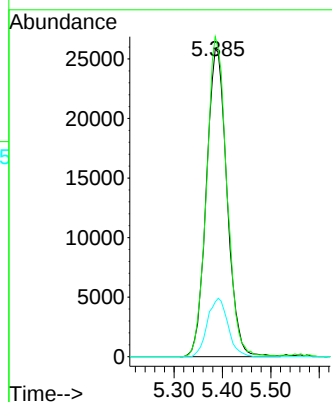
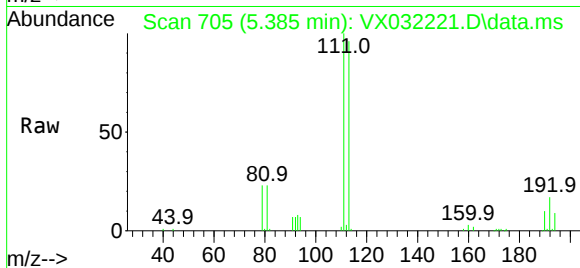
Tgt Ion:113 Resp: 76564

Ion Ratio Lower Upper

113 100

111 102.2 82.8 124.2

192 18.9 15.5 23.3



#36

1,1-Dichloropropene

Concen: 5.449 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

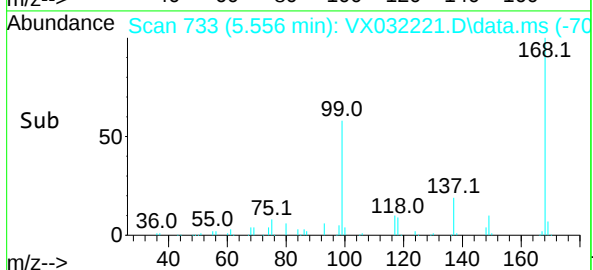
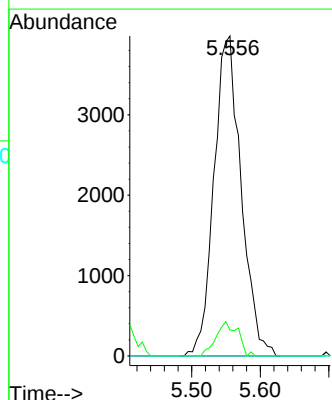
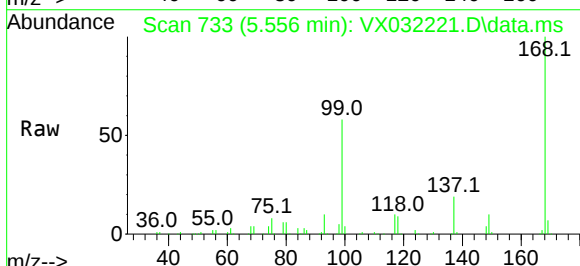
Tgt Ion: 75 Resp: 10957

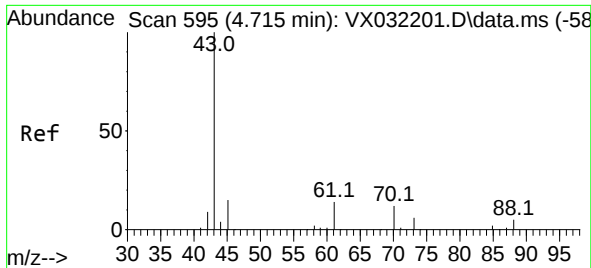
Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.291 ug/l

RT: 4.721 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

TRE-1666

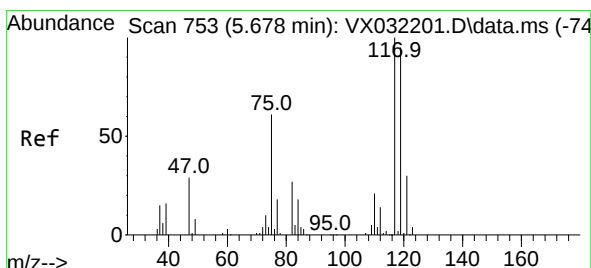
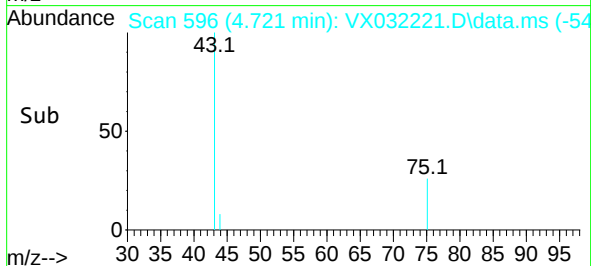
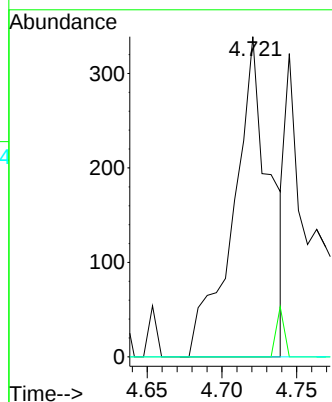
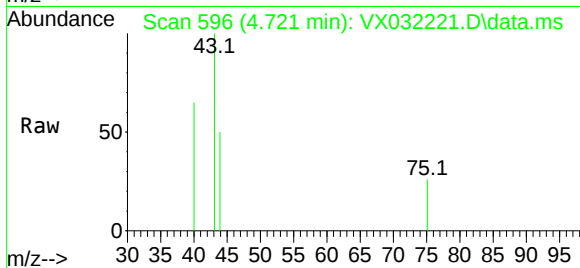
Tgt Ion: 43 Resp: 572

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.2#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 6.817 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

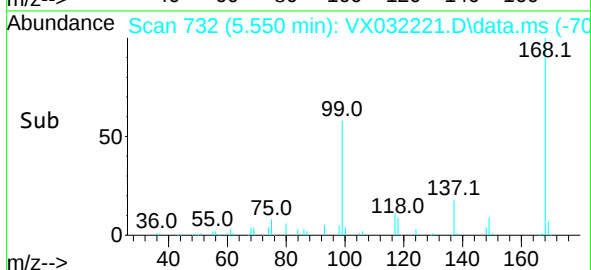
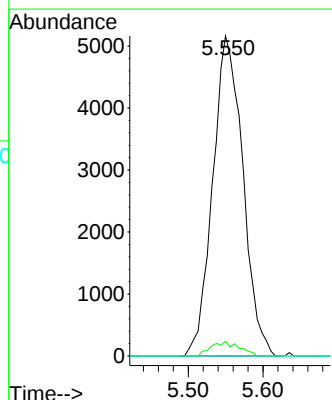
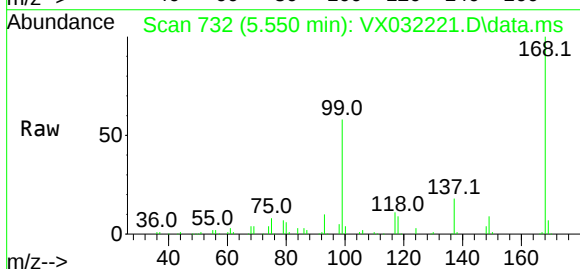
Tgt Ion: 117 Resp: 14473

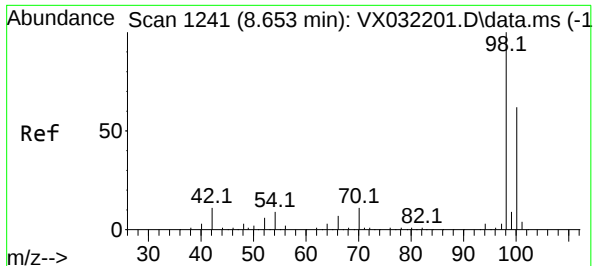
Ion Ratio Lower Upper

117 100

119 4.6 75.4 113.0#

121 0.0 23.9 35.9#

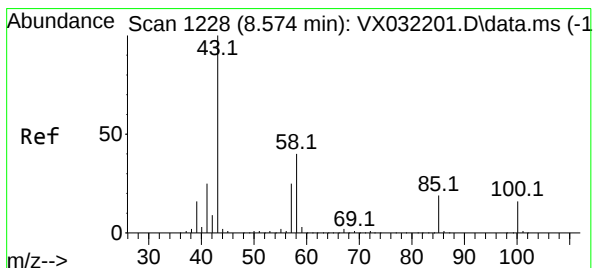
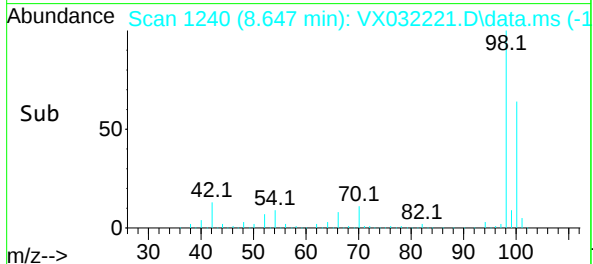
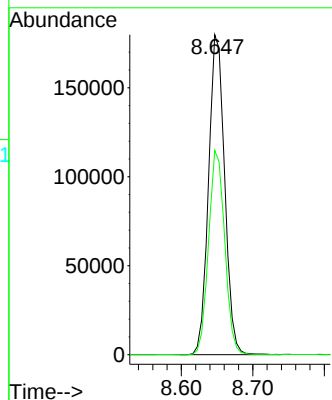
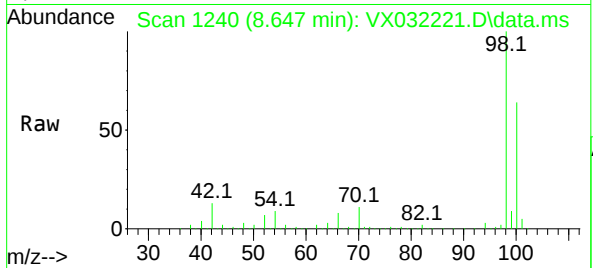




#50
Toluene-d8
Concen: 50.002 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

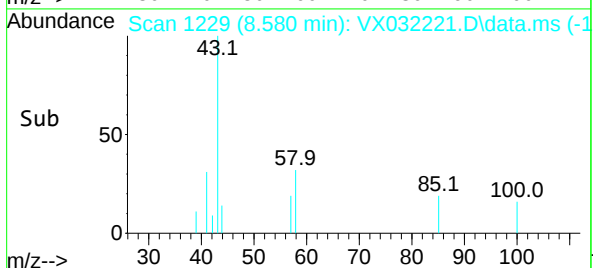
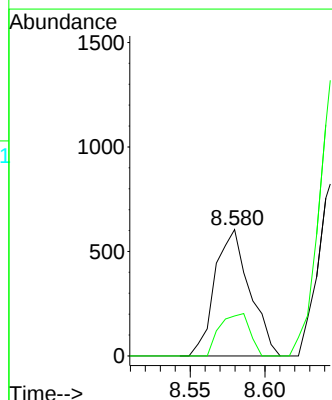
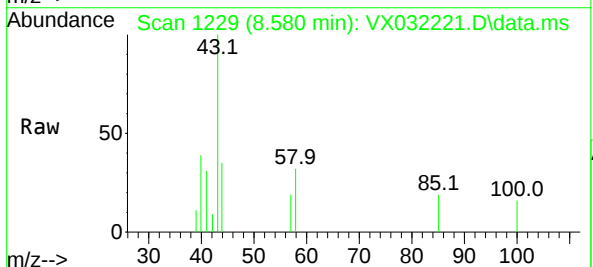
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

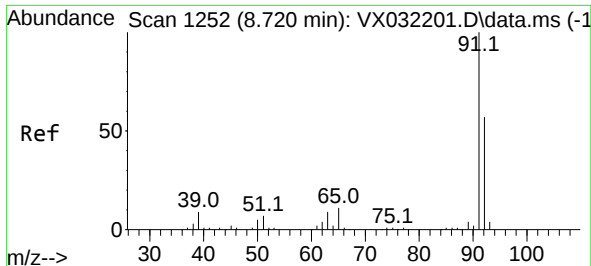
Tgt Ion: 98 Resp: 281384
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.507 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 43 Resp: 982
Ion Ratio Lower Upper
43 100
58 28.8 31.0 46.4#

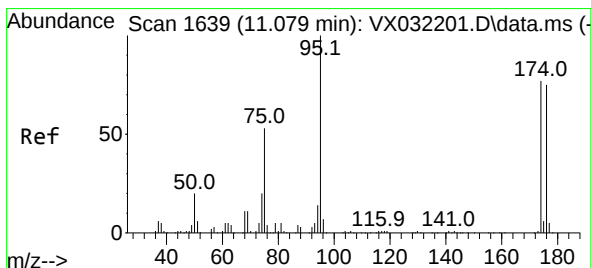
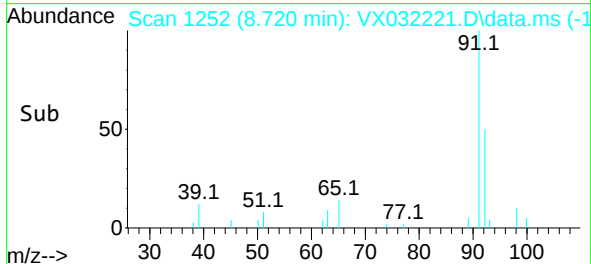
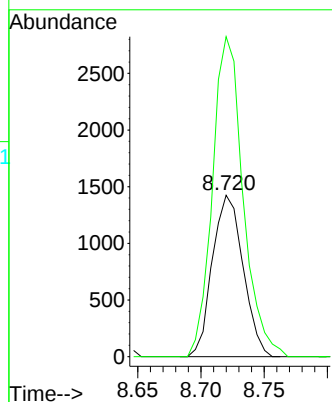
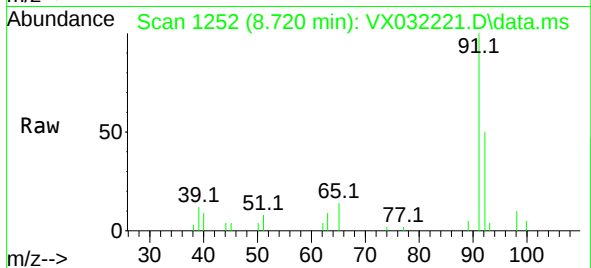




#52
Toluene
Concen: 0.637 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

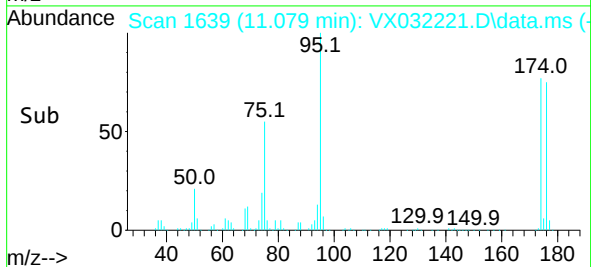
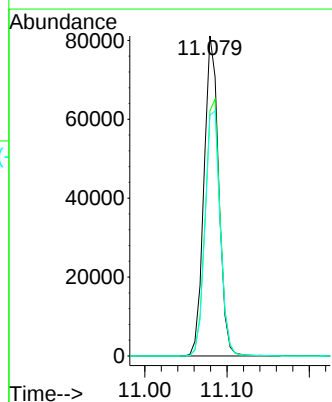
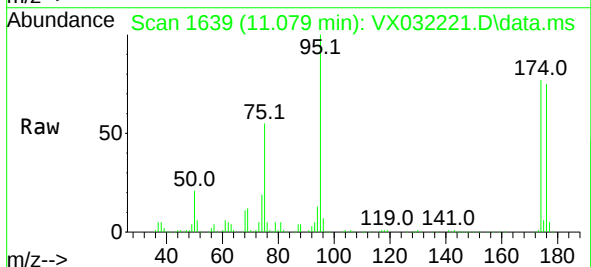
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

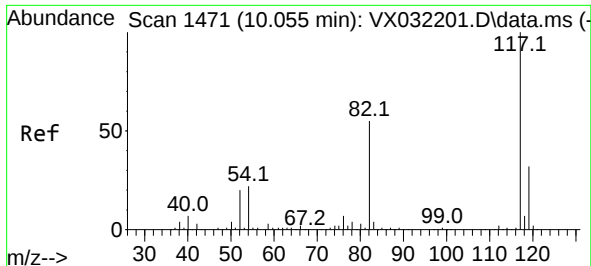
Tgt Ion: 92 Resp: 2404
Ion Ratio Lower Upper
92 100
91 197.3 140.3 210.5



#62
4-Bromofluorobenzene
Concen: 48.851 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 95 Resp: 100668
Ion Ratio Lower Upper
95 100
174 81.8 0.0 166.8
176 79.0 0.0 161.4

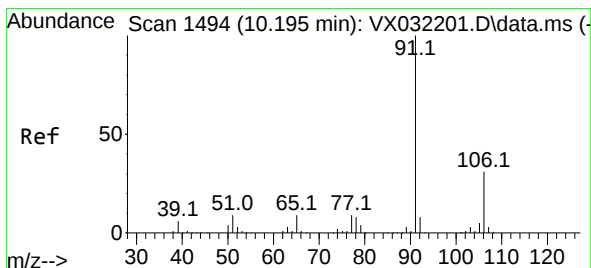
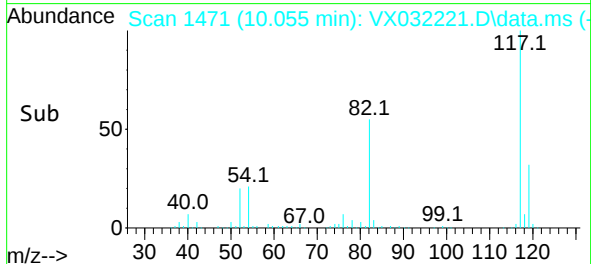
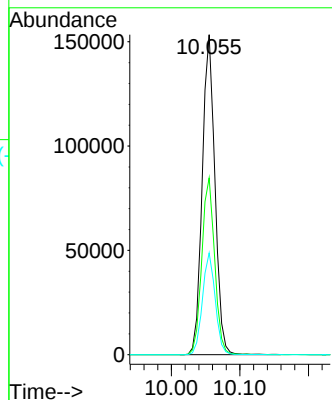
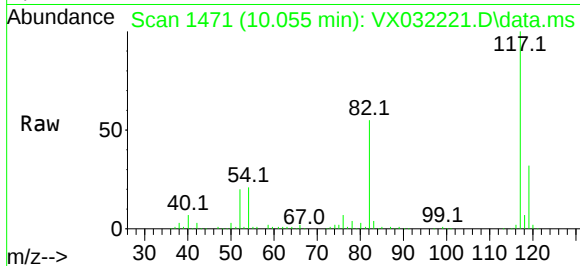




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

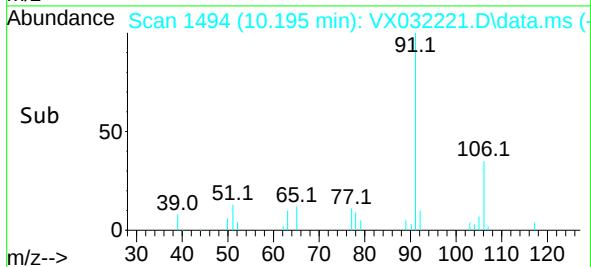
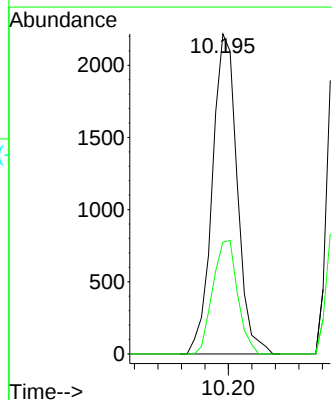
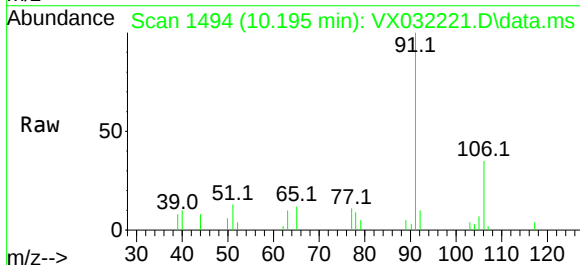
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

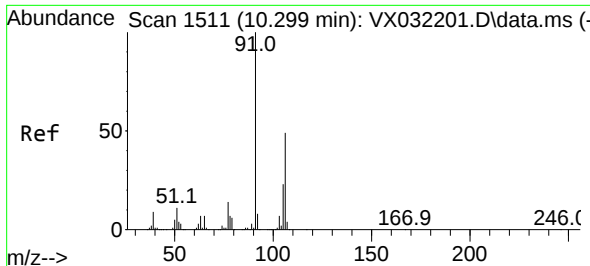
Tgt Ion:117 Resp: 198508
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.4
119 31.8 25.8 38.8



#67
Ethyl Benzene
Concen: 0.452 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 91 Resp: 3258
Ion Ratio Lower Upper
91 100
106 34.9 25.0 37.4

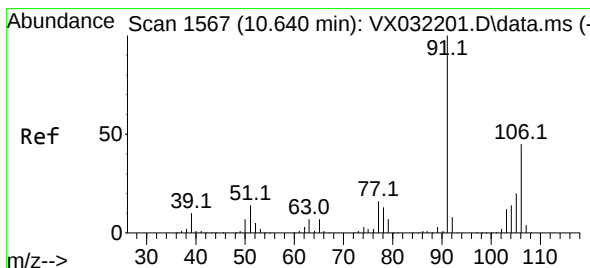
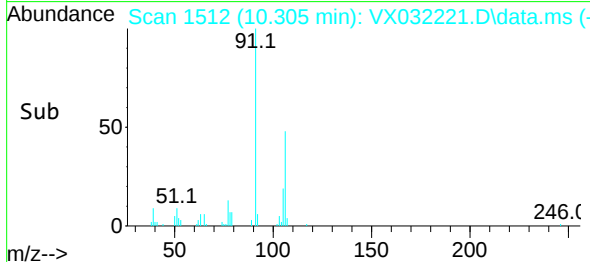
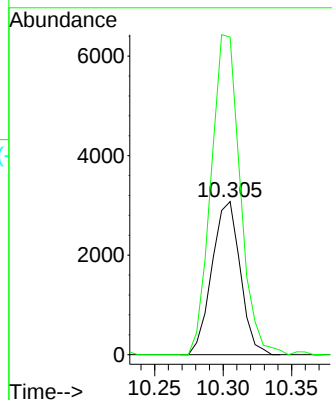
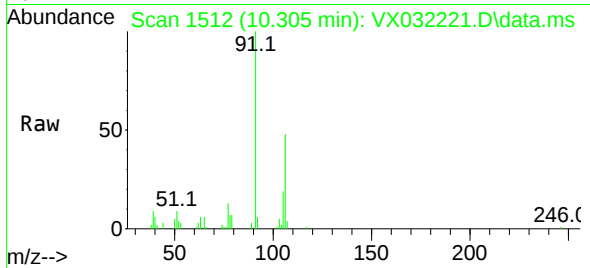




#68
m/p-Xylenes
Concen: 1.552 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

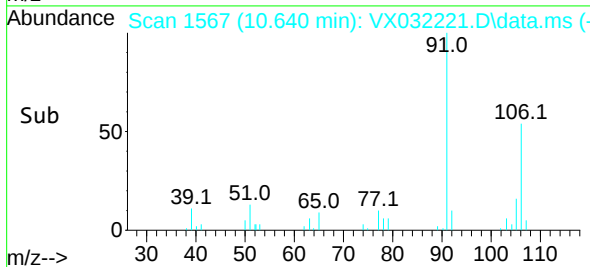
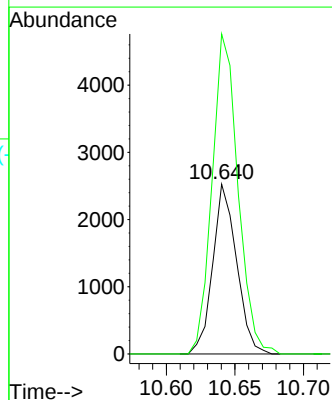
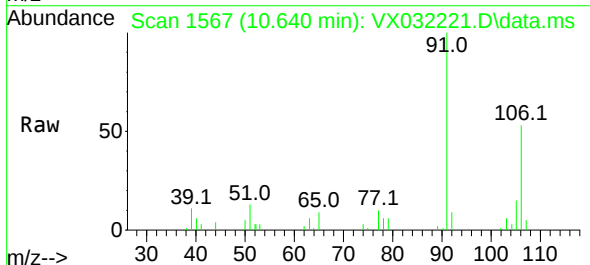
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

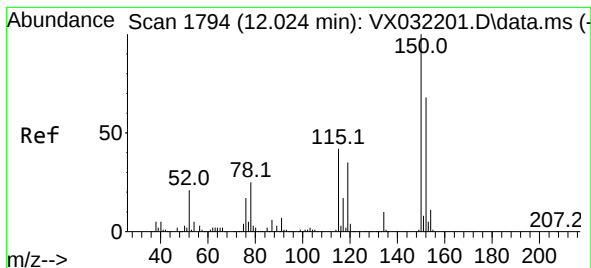
Tgt Ion:106 Resp: 4416
Ion Ratio Lower Upper
106 100
91 215.2 162.6 244.0



#69
o-Xylene
Concen: 1.122 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion:106 Resp: 3058
Ion Ratio Lower Upper
106 100
91 204.4 108.3 324.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

TRE-1666

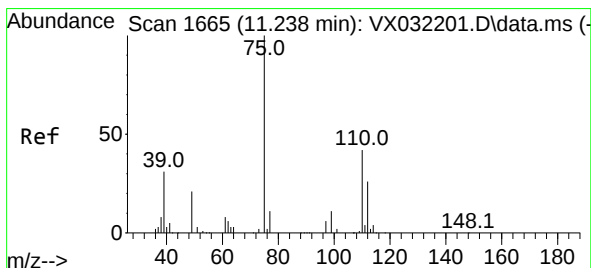
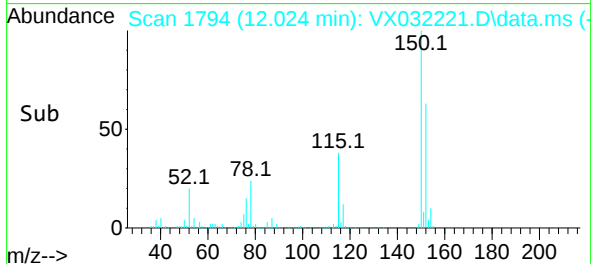
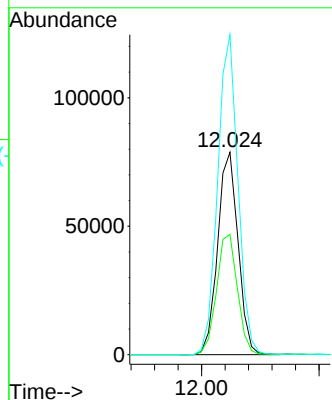
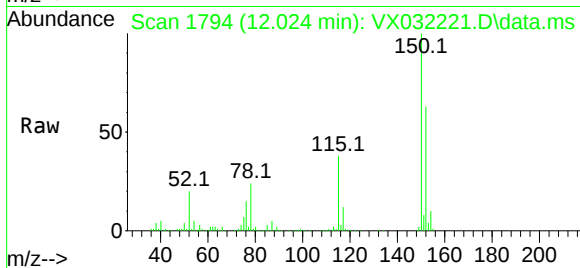
Tgt Ion:152 Resp: 95297

Ion Ratio Lower Upper

152 100

115 60.9 43.1 129.4

150 156.9 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 29.006 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX032221.D

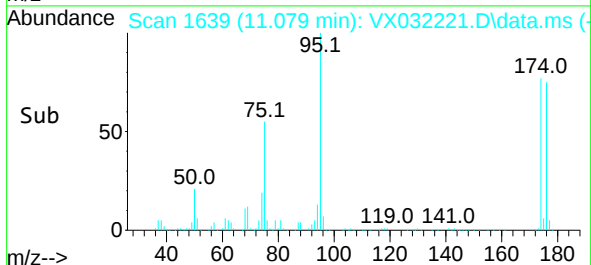
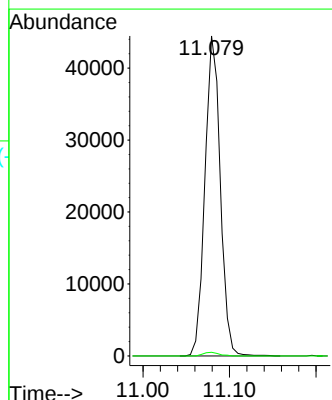
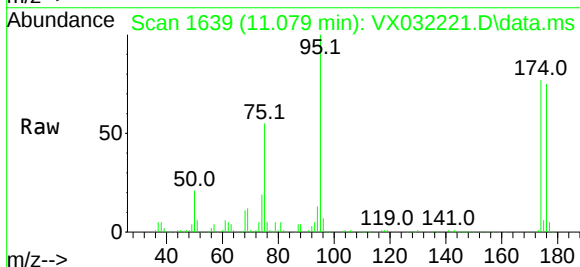
Acq: 19 Oct 2022 20:28

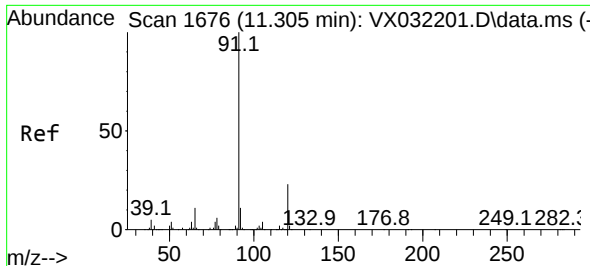
Tgt Ion: 75 Resp: 54770

Ion Ratio Lower Upper

75 100

77 1.2 16.0 47.9#

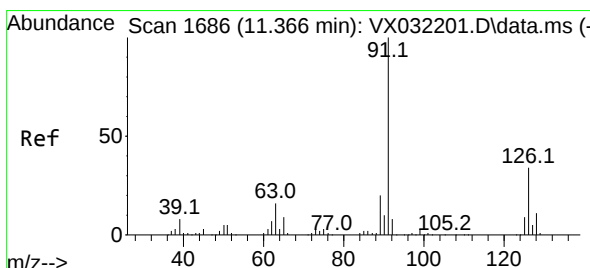
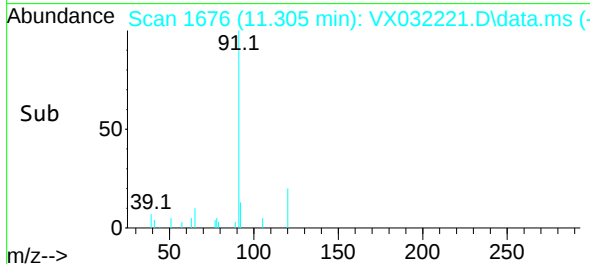
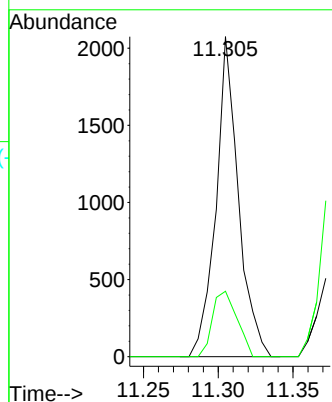
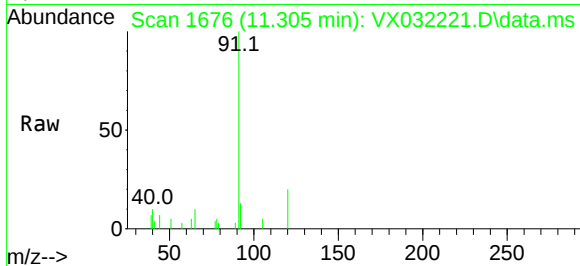




#78
n-propylbenzene
Concen: 0.278 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

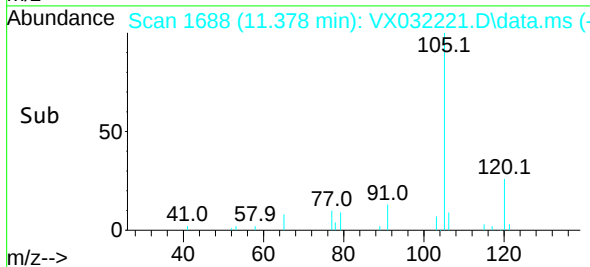
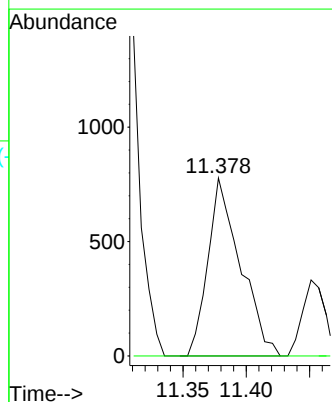
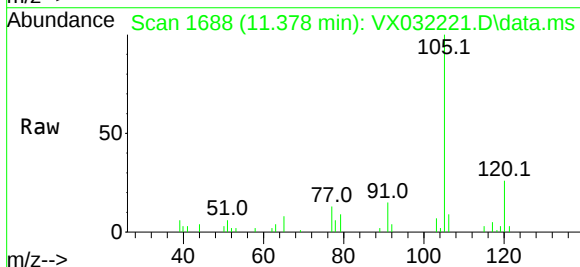
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

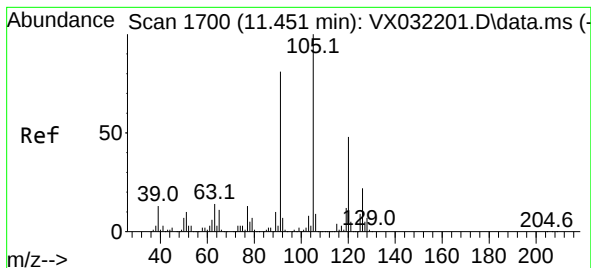
Tgt Ion: 91 Resp: 2163
Ion Ratio Lower Upper
91 100
120 22.4 11.6 34.8



#79
2-Chlorotoluene
Concen: 0.296 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.012 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Tgt Ion: 91 Resp: 1390
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#





#80

1,3,5-Trimethylbenzene

Concen: 0.438 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

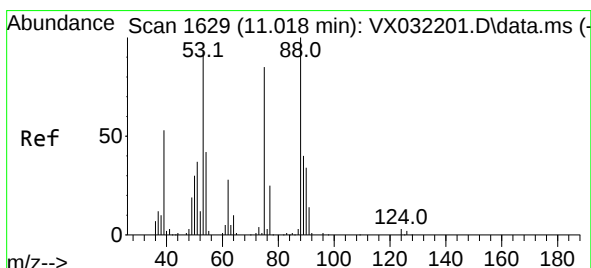
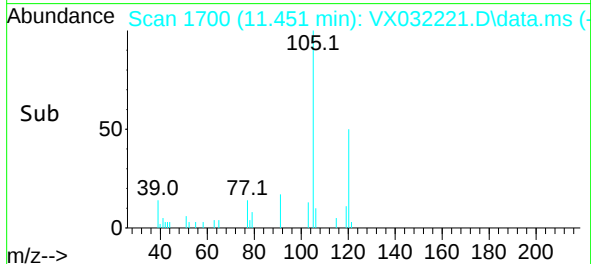
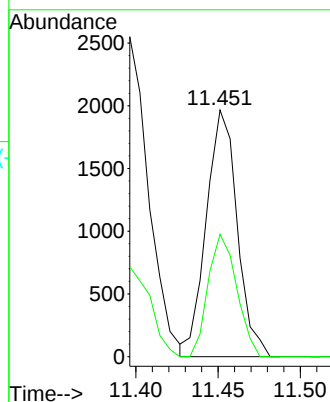
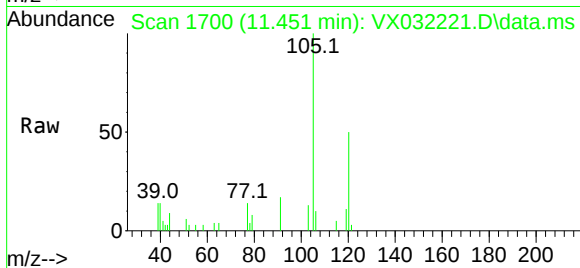
TRE-1666

Tgt Ion:105 Resp: 2570

Ion Ratio Lower Upper

105 100

120 45.8 23.5 70.6



#81

trans-1,4-Dichloro-2-butene

Concen: 88.855 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

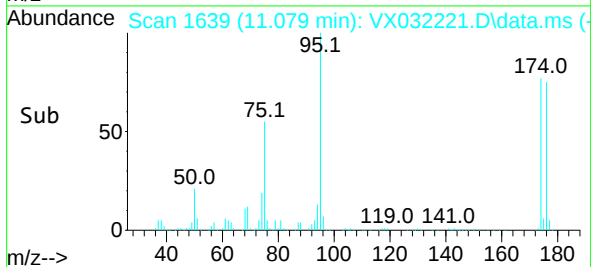
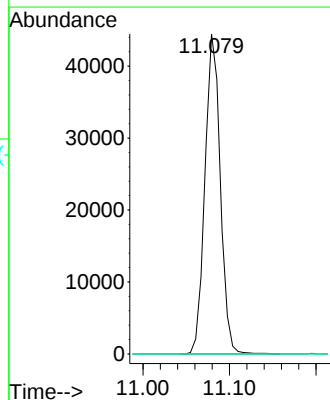
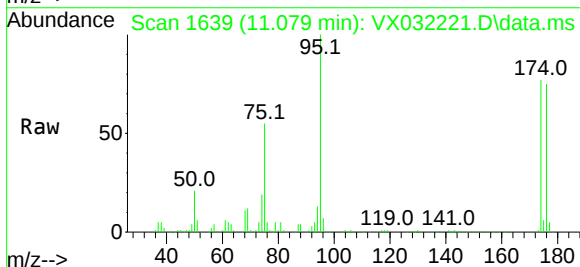
Tgt Ion: 75 Resp: 54770

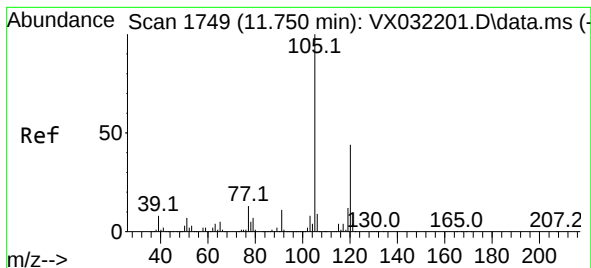
Ion Ratio Lower Upper

75 100

53 0.0 87.8 131.8#

89 0.0 37.8 56.8#





#84

1,2,4-Trimethylbenzene

Concen: 2.059 ug/l

RT: 11.750 min Scan# 11756

Delta R.T. -0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

Instrument :

MSVOA_X

ClientSampleId :

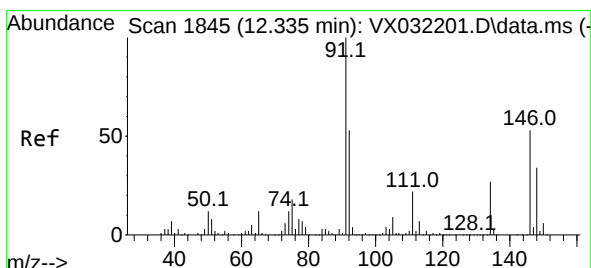
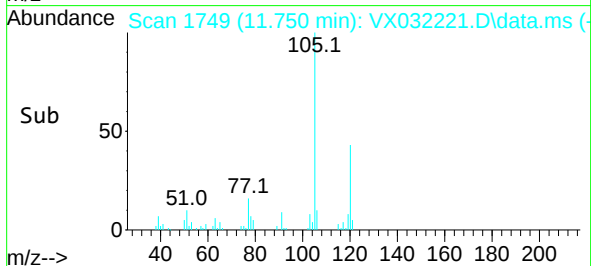
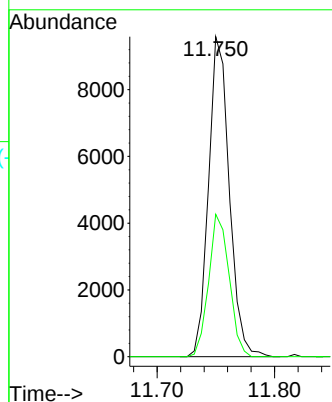
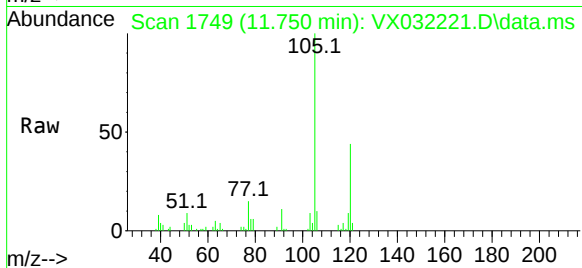
TRE-1666

Tgt Ion:105 Resp: 11756

Ion Ratio Lower Upper

105 100

120 43.9 22.1 66.1



#89

n-Butylbenzene

Concen: 0.235 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX032221.D

Acq: 19 Oct 2022 20:28

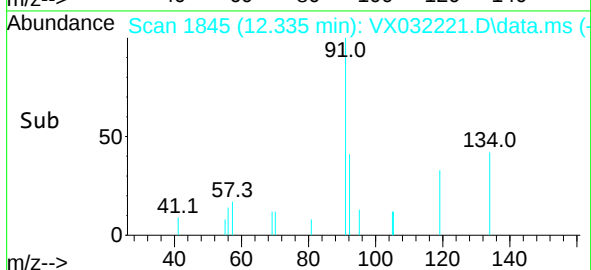
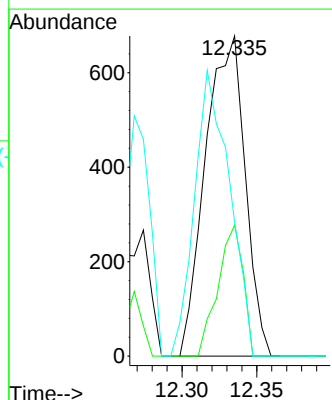
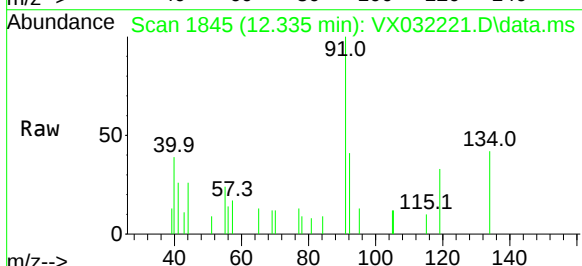
Tgt Ion: 91 Resp: 1249

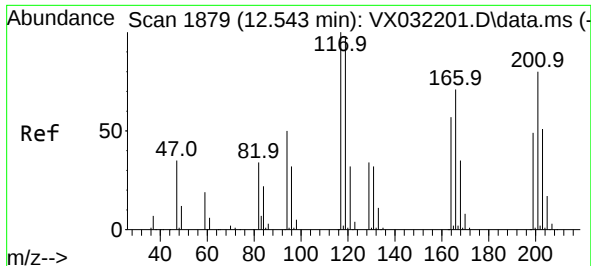
Ion Ratio Lower Upper

91 100

92 25.9 26.3 78.9#

134 78.6 13.0 39.0#

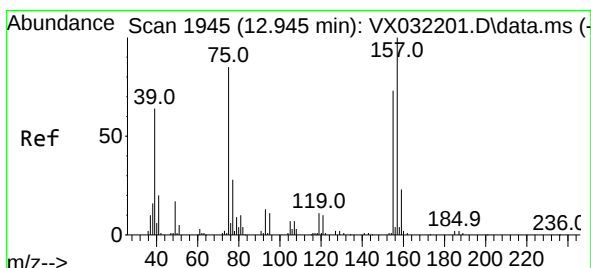
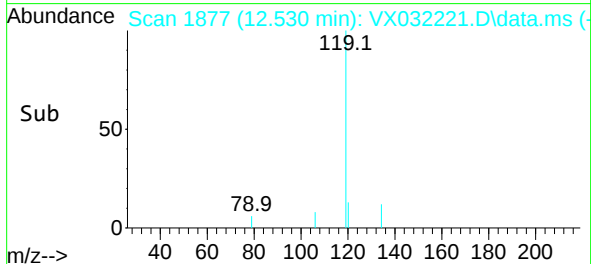
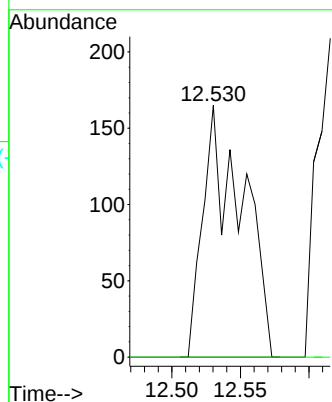
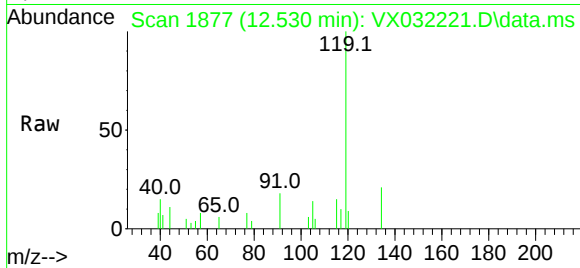




#90
Hexachloroethane
Concen: 0.350 ug/l
RT: 12.530 min Scan# 117
Delta R.T. -0.013 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

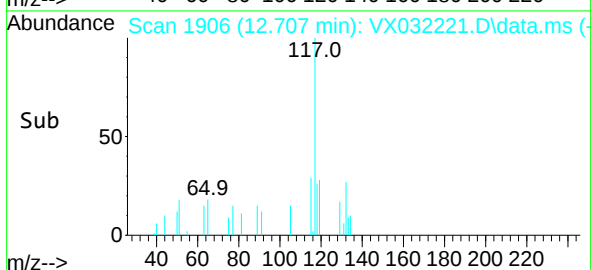
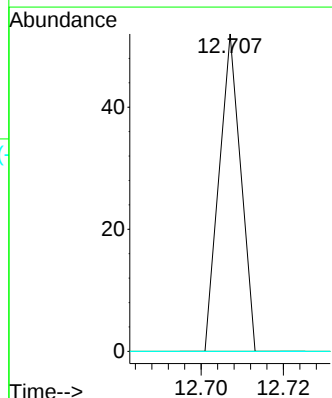
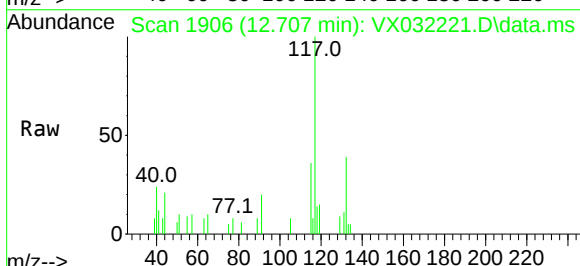
Instrument :
MSVOA_X
ClientSampleId :
TRE-1666

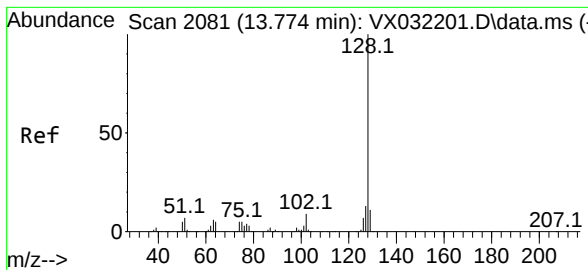
Tgt Ion:117 Resp: 328
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.707 min Scan# 1906
Delta R.T. -0.238 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

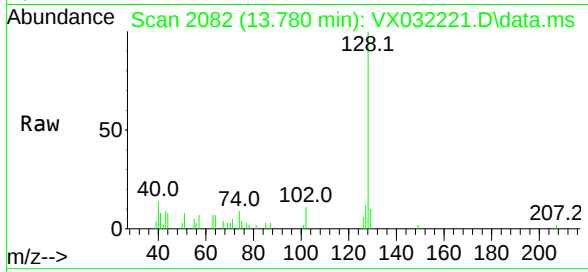
Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
155 0.0 43.1 129.3#
157 0.0 57.1 171.5#





#95
Naphthalene
Concen: 0.520 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX032221.D
Acq: 19 Oct 2022 20:28

Instrument :
MSVOA_X
ClientSampleId :
TRE-1666



Tgt Ion:	128	Resp:	3417
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.3	15.5
129	10.1	8.7	13.1

