

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070122\
 Data File : VW026629.D
 Acq On : 01 Jul 2022 15:04
 Operator : SY/MD
 Sample : N3553-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 COAH7

Quant Time: Jul 04 02:04:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR062322WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Jul 04 02:01:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	221128	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	201199	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	96683	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.320	65	53272	2.996	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.000%
7) Chloroethane-d5	1.581	69	50461	3.532	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.600%
11) 1,1-Dichloroethene-d2	2.121	63	73928	2.340	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.800%#
20) 2-Butanone-d5	3.921	46	111310	62.957	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.920%
24) Chloroform-d	4.365	84	116847	4.019	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.400%
26) 1,2-Dichloroethane-d4	5.047	65	51663	4.614	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.200%
32) Benzene-d6	5.059	84	222605	3.852	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.000%
36) 1,2-Dichloropropane-d6	6.079	67	70345	4.426	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.600%
41) Toluene-d8	7.320	98	184508	3.550	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.000%
43) trans-1,3-Dichloroprop...	7.628	79	18167	4.423	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.400%
46) 2-Hexanone-d5	8.091	63	89316	57.084	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.160%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	52964	5.095	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	72237	4.515	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.256	50	869	0.047	ug/L	98
6) Bromomethane	1.539	94	481	0.045	ug/L #	60
8) Chloroethane	1.629	64	11143	0.836	ug/L #	56
13) Acetone	2.214	43	11198	9.984	ug/L	96
14) Carbon disulfide	2.307	76	4909	0.125	ug/L #	94
15) Methyl Acetate	2.445	43	6978	2.158	ug/L #	47
17) Methyl tert-butyl Ether	2.786	73	1894	0.078	ug/L #	1
21) 2-Butanone	4.095	43	121656	72.099	ug/L #	48
23) Bromochloromethane	4.259	128	454	0.073	ug/L #	62
25) Chloroform	4.391	83	52720	1.801	ug/L	97
27) 1,2-Dichloroethane	5.108	62	4642	0.356	ug/L #	72
30) Cyclohexane	4.690	56	8010	0.409	ug/L	96
33) Benzene	5.108	78	577311	9.827	ug/L	100
34) Trichloroethene	5.931	95	3618	0.234	ug/L	93
35) Methylcyclohexane	6.137	83	11961	0.524	ug/L	92
37) 1,2-Dichloropropane	6.076	63	7718	0.545	ug/L #	86
38) Bromodichloromethane	6.516	83	29275	1.751	ug/L	100
39) cis-1,3-Dichloropropene	6.995	75	1258	0.088	ug/L #	31
42) Toluene	7.391	91	669803	11.044	ug/L	99

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

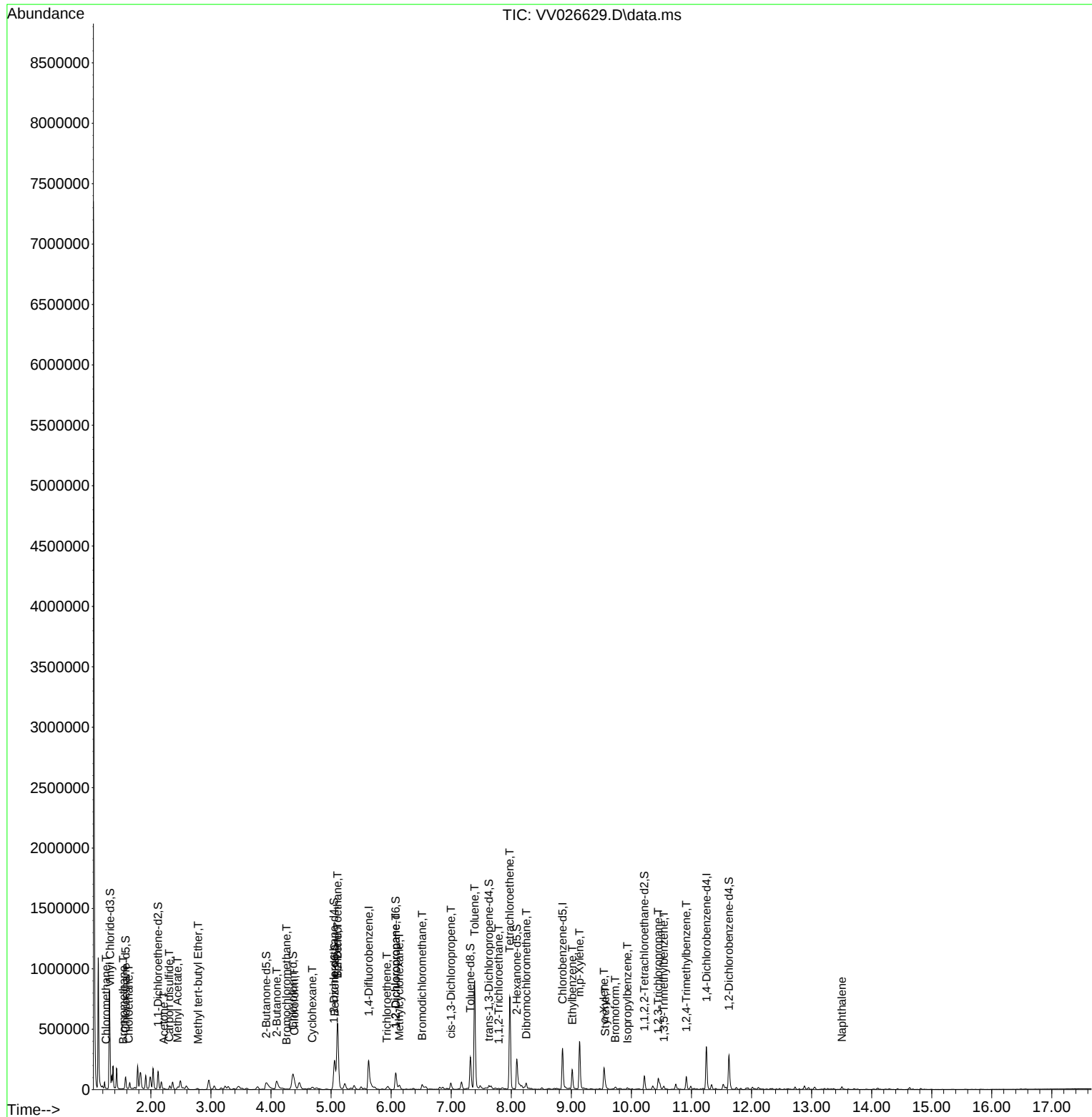
45) 1,1,2-Trichloroethane	7.789	97	1919	0.215	ug/L #	23
47) Tetrachloroethene	7.976	164	176190	14.329	ug/L	99
49) Dibromochloromethane	8.249	129	23793	2.632	ug/L	96
52) Ethylbenzene	9.014	91	110665	1.764	ug/L	98
53) m,p-Xylene	9.136	106	111719	4.566	ug/L	95
54) o-Xylene	9.545	106	46974	2.045	ug/L	95
55) Styrene	9.564	104	23984	0.630	ug/L	99
59) Bromoform	9.731	173	6639	1.863	ug/L #	97
60) Isopropylbenzene	9.934	105	7007	0.118	ug/L	97
61) 1,2,3-Trichloropropane	10.445	75	553	0.088	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.542	105	13081	0.278	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	56648	1.219	ug/L	100
71) Naphthalene	13.506	128	19405	1.010	ug/L	96

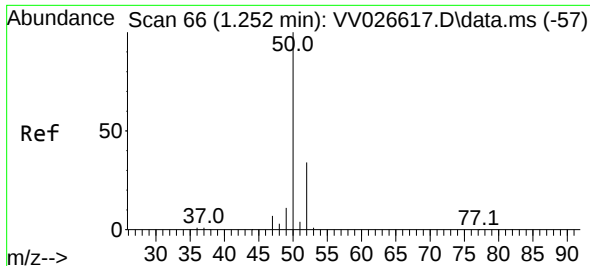
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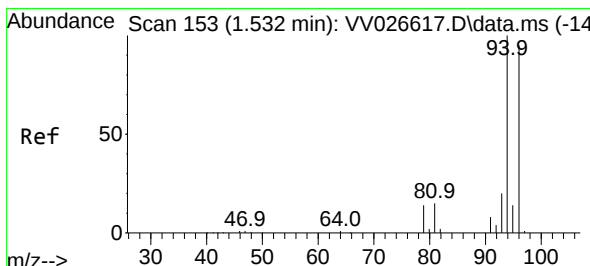
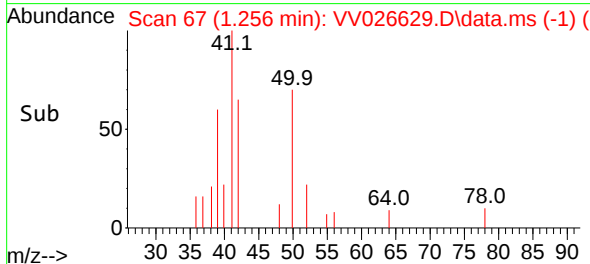
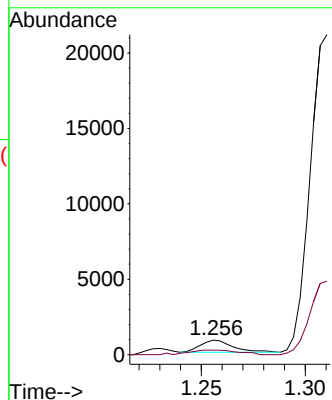
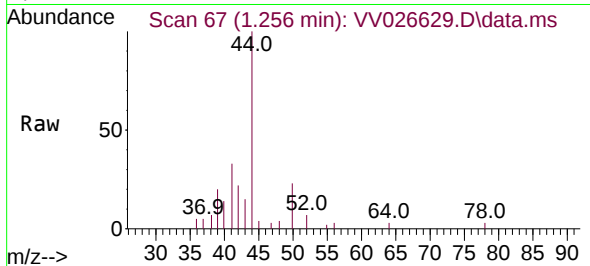




#3
Chloromethane
Concen: 0.047 ug/L
RT: 1.256 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

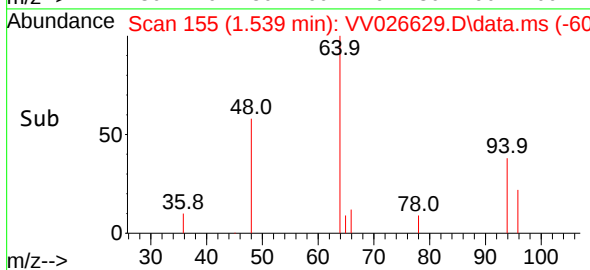
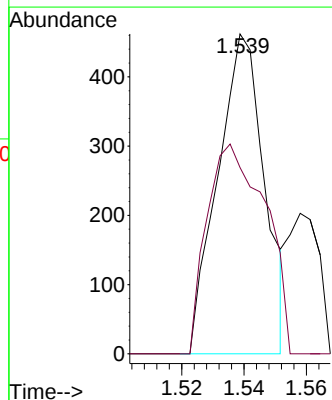
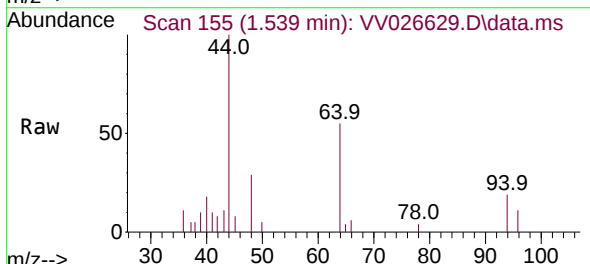
Instrument :
MSVOA_V
ClientSampleId :
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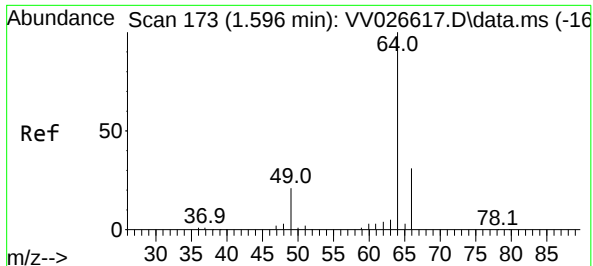
Tgt Ion: 50 Resp: 869
Ion Ratio Lower Upper
50 100
52 31.4 23.0 42.6



#6
Bromomethane
Concen: 0.045 ug/L
RT: 1.539 min Scan# 155
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 94 Resp: 481
Ion Ratio Lower Upper
94 100
96 58.2 68.0 126.2#

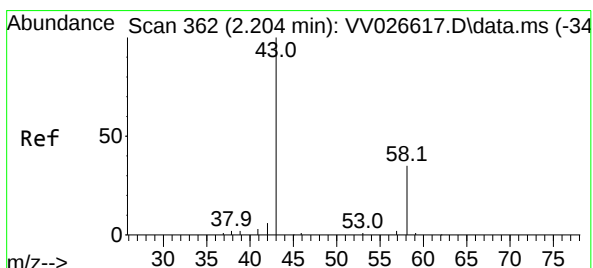
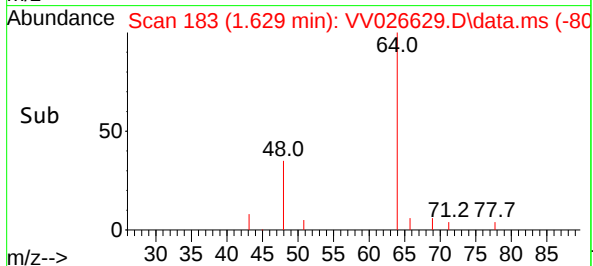
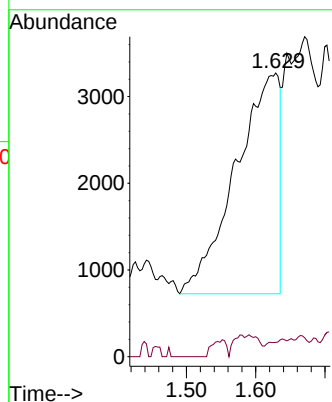
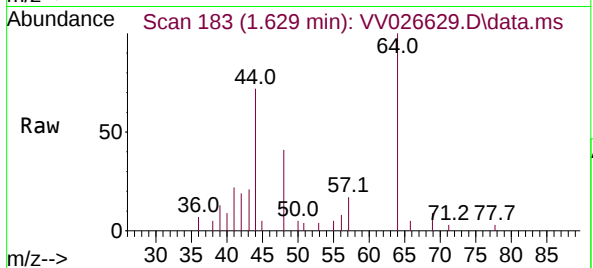




#8
Chloroethane
Concen: 0.836 ug/L
RT: 1.629 min Scan# 11
Delta R.T. 0.032 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

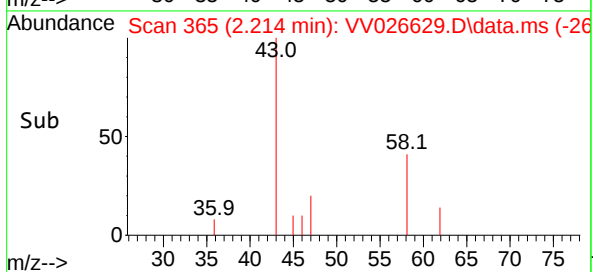
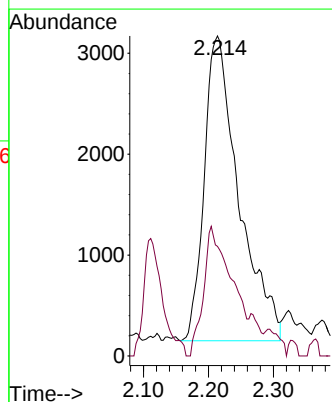
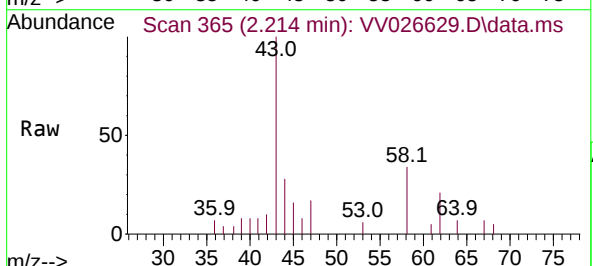
Instrument :
MSVOA_V
ClientSampleId :
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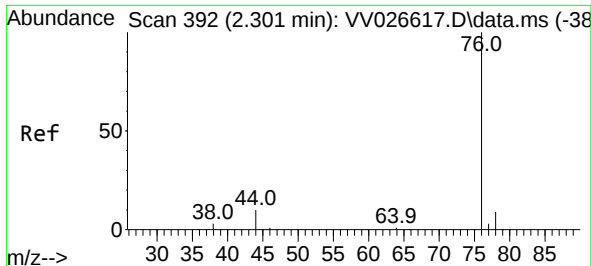
Tgt Ion: 64 Resp: 11143
Ion Ratio Lower Upper
64 100
66 5.0 20.0 37.2#



#13
Acetone
Concen: 9.984 ug/L
RT: 2.214 min Scan# 365
Delta R.T. 0.010 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 43 Resp: 11198
Ion Ratio Lower Upper
43 100
58 34.9 0.0 75.0

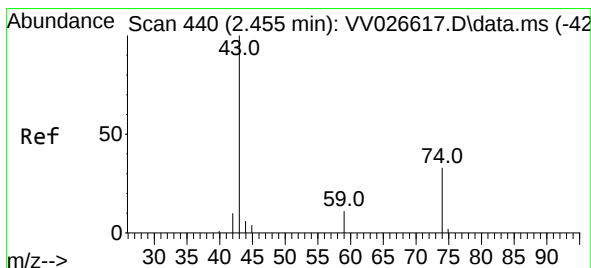
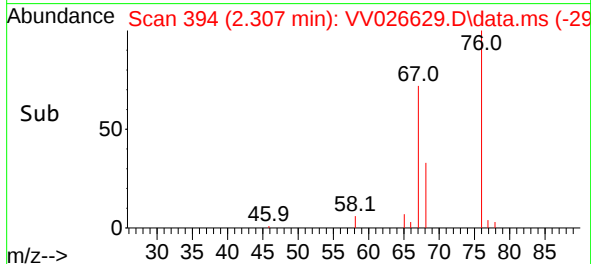
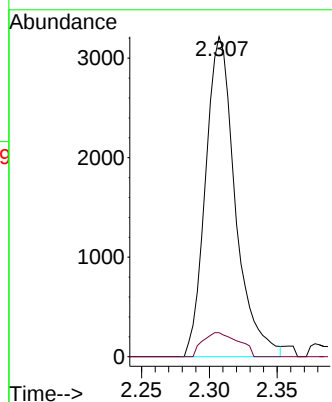
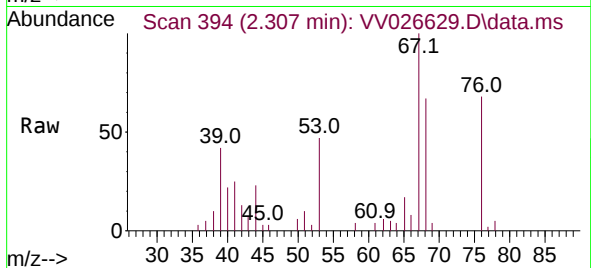




#14
Carbon disulfide
Concen: 0.125 ug/L
RT: 2.307 min Scan# 392
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

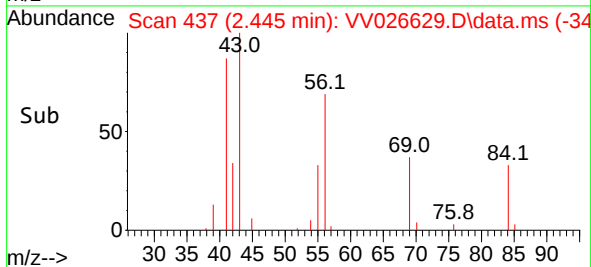
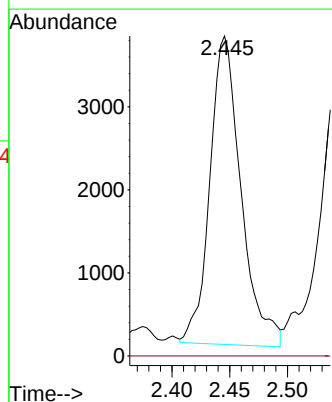
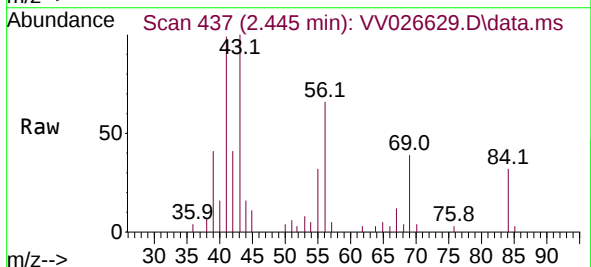
Instrument :
MSVOA_V
ClientSampleId :
C0AH7

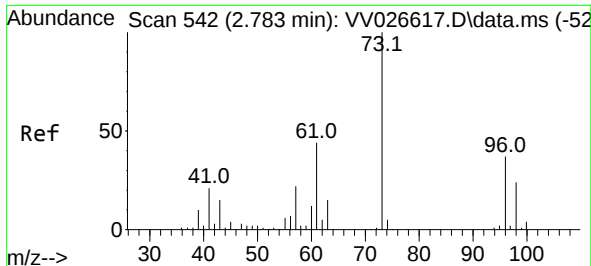
Tgt Ion: 76 Resp: 4909
Ion Ratio Lower Upper
76 100
78 7.5 7.8 11.6#



#15
Methyl Acetate
Concen: 2.158 ug/L
RT: 2.445 min Scan# 437
Delta R.T. -0.010 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 43 Resp: 6978
Ion Ratio Lower Upper
43 100
74 0.0 22.1 33.1#

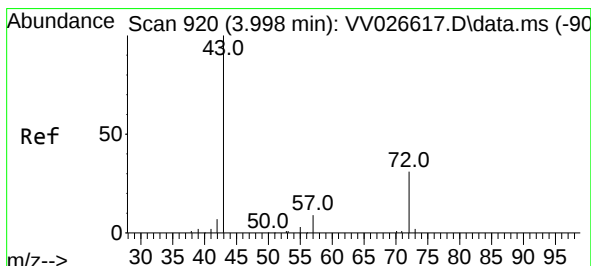
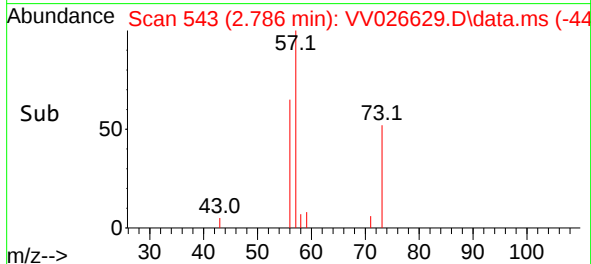
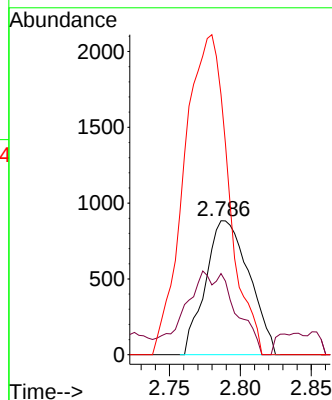
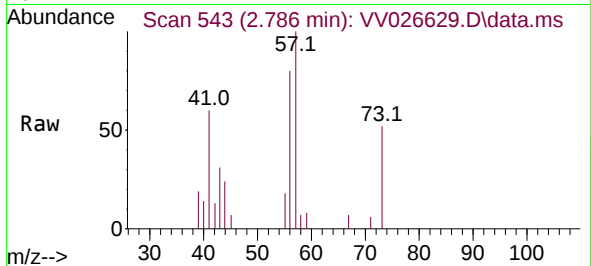




#17
Methyl tert-butyl Ether
Concen: 0.078 ug/L
RT: 2.786 min Scan# 54
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

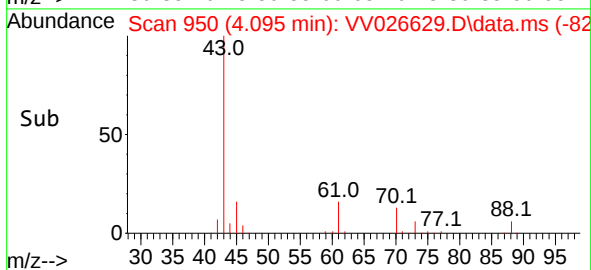
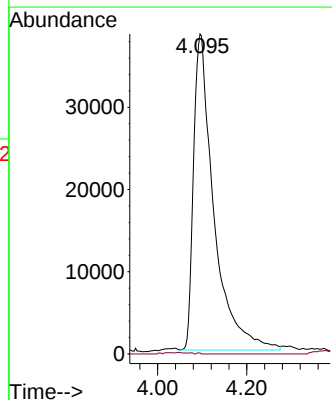
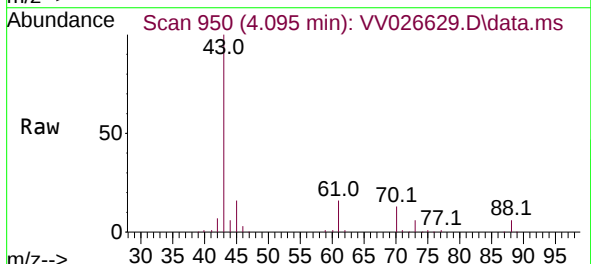
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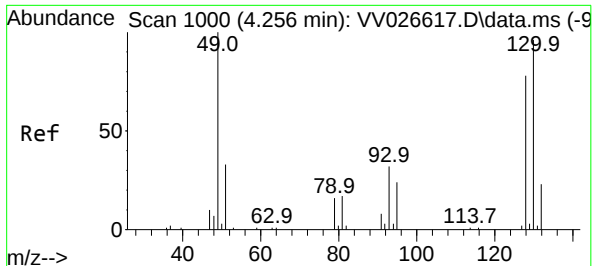
Tgt Ion: 73 Resp: 1894
Ion Ratio Lower Upper
73 100
43 27.5 13.3 19.9#
57 242.4 17.2 25.8#



#21
2-Butanone
Concen: 72.099 ug/L
RT: 4.095 min Scan# 950
Delta R.T. 0.097 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 43 Resp: 121656
Ion Ratio Lower Upper
43 100
72 0.1 13.5 40.5#

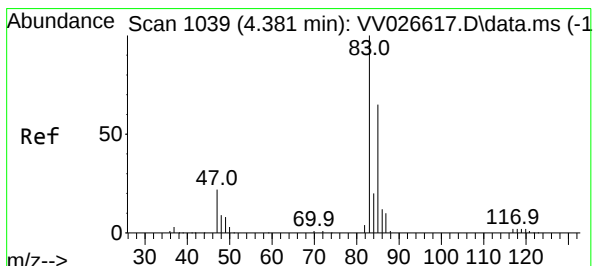
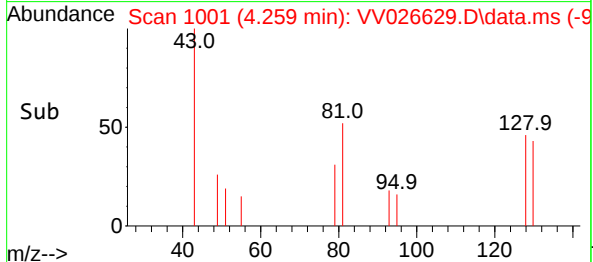
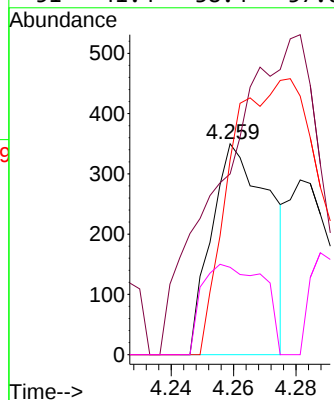
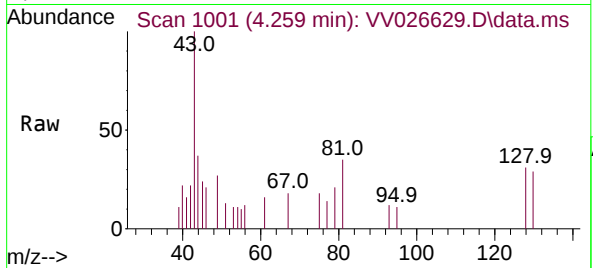




#23
Bromochloromethane
Concen: 0.073 ug/L
RT: 4.259 min Scan# 1042
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

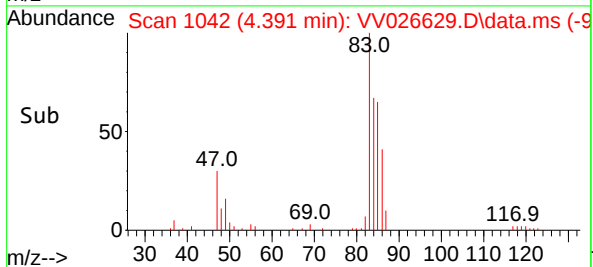
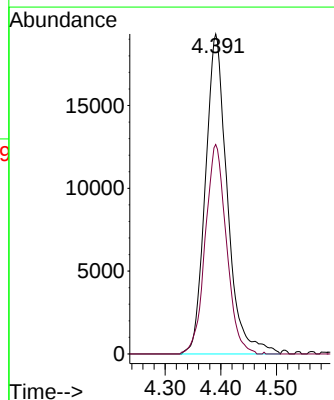
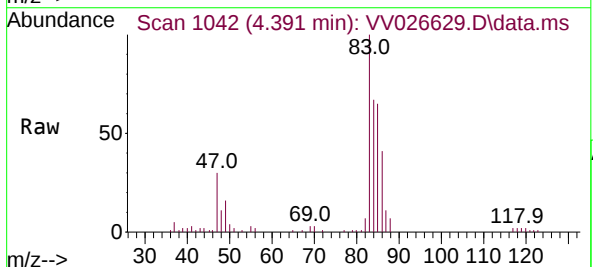
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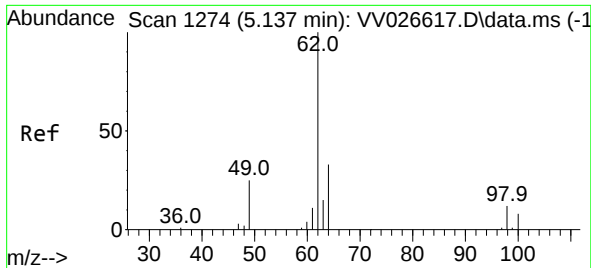
Tgt Ion:128 Resp: 454
Ion Ratio Lower Upper
128 100
49 85.7 104.0 193.1#
130 92.3 93.4 173.6#
51 41.4 38.4 57.6



#25
Chloroform
Concen: 1.801 ug/L
RT: 4.391 min Scan# 1042
Delta R.T. 0.010 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 83 Resp: 52720
Ion Ratio Lower Upper
83 100
85 65.5 44.0 81.8





#27

1,2-Dichloroethane

Concen: 0.356 ug/L

RT: 5.108 min Scan# 1135

Delta R.T. -0.029 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

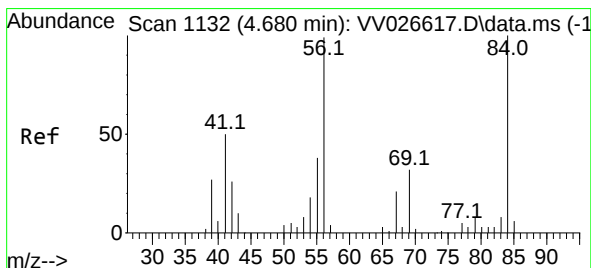
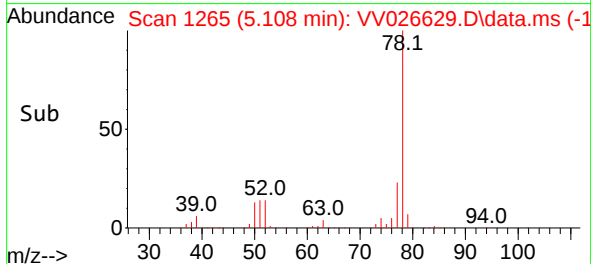
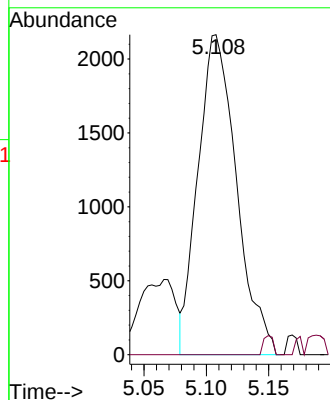
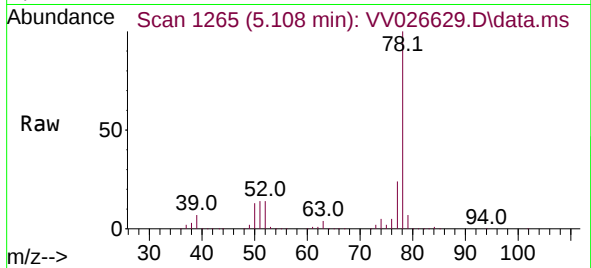
C0AH7

Tgt Ion: 62 Resp: 4642

Ion Ratio Lower Upper

62 100

98 0.0 8.4 12.6#



#30

Cyclohexane

Concen: 0.409 ug/L

RT: 4.690 min Scan# 1135

Delta R.T. 0.010 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

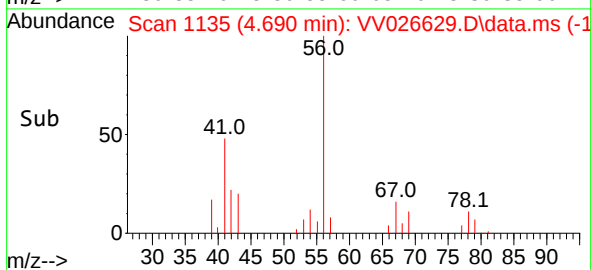
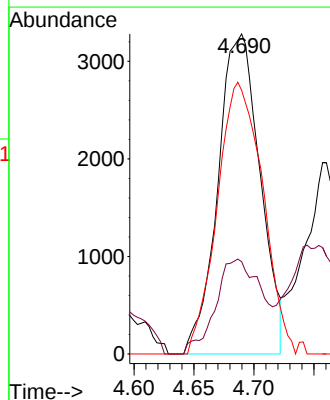
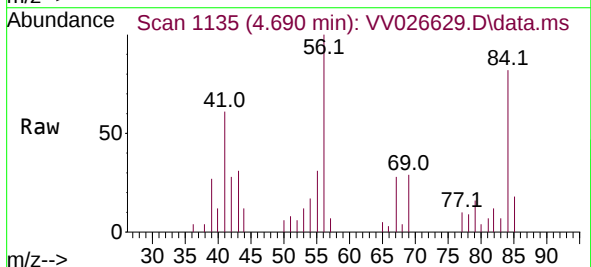
Tgt Ion: 56 Resp: 8010

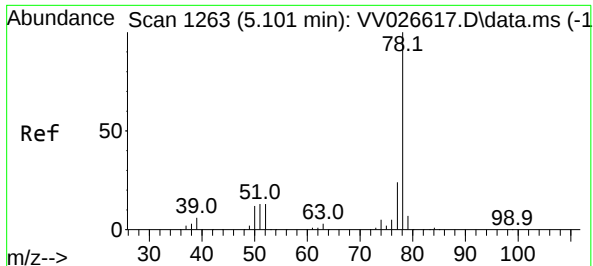
Ion Ratio Lower Upper

56 100

69 32.0 25.4 38.2

84 91.5 77.8 116.6

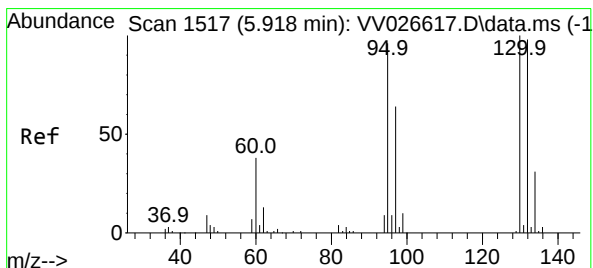
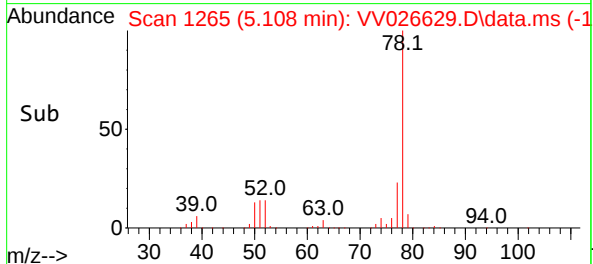
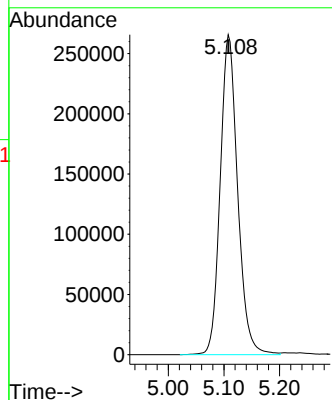
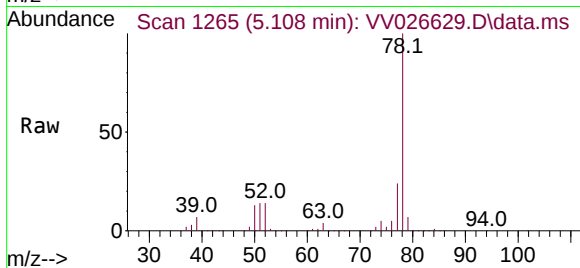




#33
Benzene
Concen: 9.827 ug/L
RT: 5.108 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Instrument :
MSVOA_V
ClientSampleId :
C0AH7

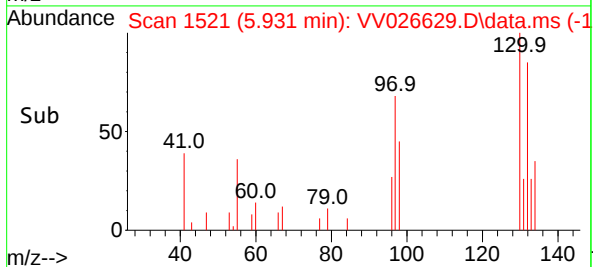
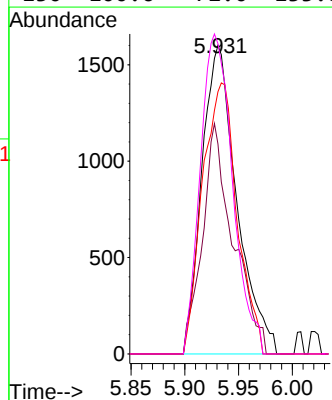
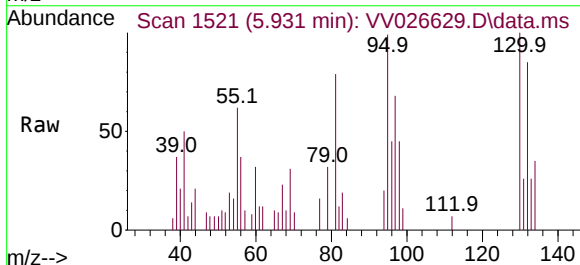
Tgt Ion: 78 Resp: 577311

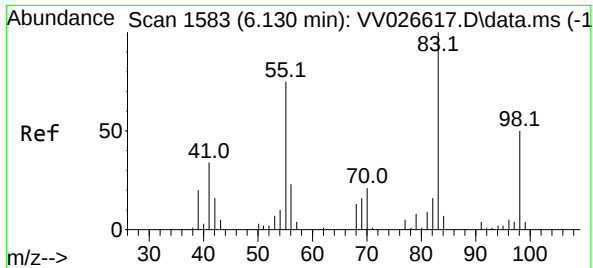


#34
Trichloroethene
Concen: 0.234 ug/L
RT: 5.931 min Scan# 1521
Delta R.T. 0.013 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 95 Resp: 3618

Ion	Ratio	Lower	Upper
95	100		
97	68.1	46.8	87.0
132	85.0	69.9	129.7
130	100.6	72.0	133.8





#35

Methylcyclohexane

Concen: 0.524 ug/L

RT: 6.137 min Scan# 11

Delta R.T. 0.007 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

C0AH7

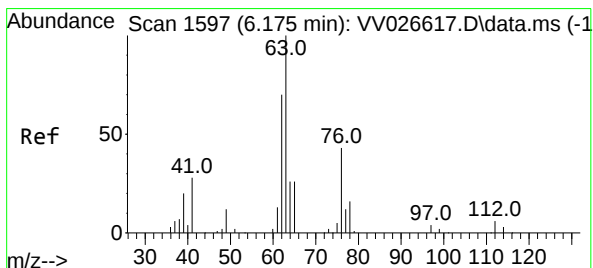
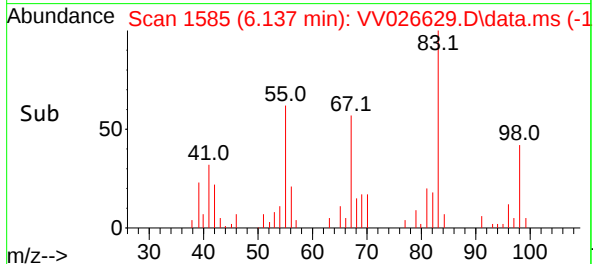
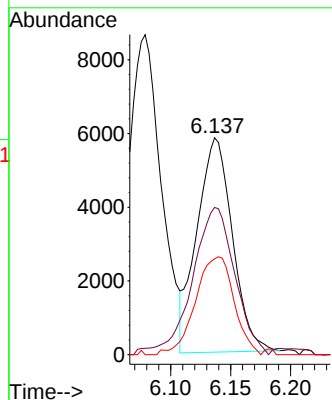
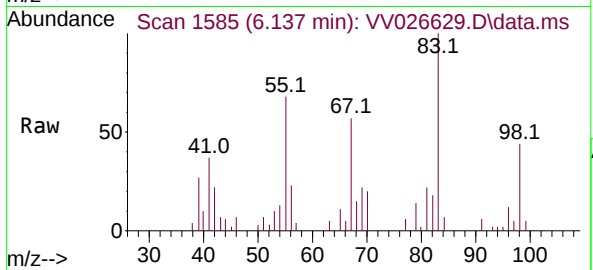
Tgt Ion: 83 Resp: 11961

Ion Ratio Lower Upper

83 100

55 82.3 57.0 85.4

98 49.5 39.8 59.8



#37

1,2-Dichloropropane

Concen: 0.545 ug/L

RT: 6.076 min Scan# 1566

Delta R.T. -0.100 min

Lab File: VV026629.D

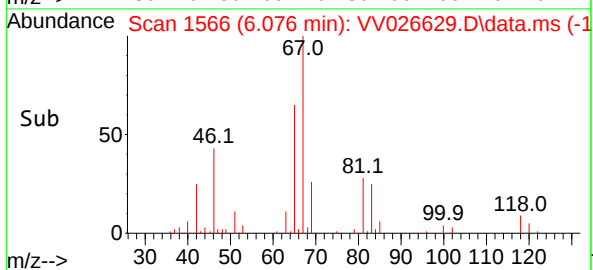
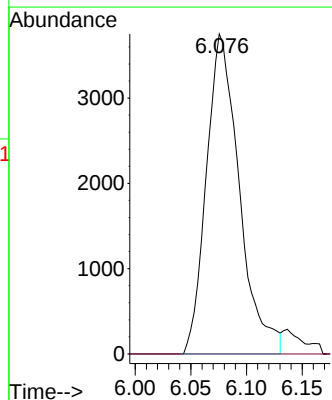
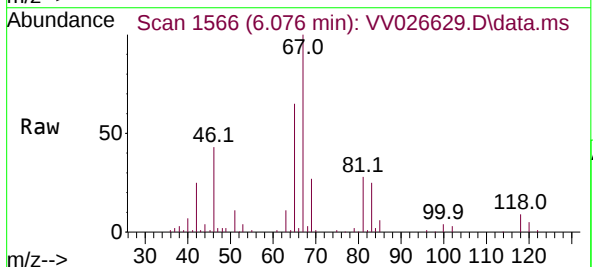
Acq: 01 Jul 2022 15:04

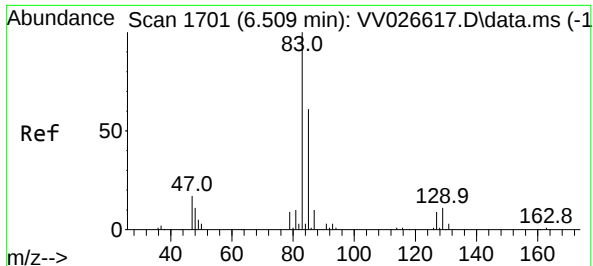
Tgt Ion: 63 Resp: 7718

Ion Ratio Lower Upper

63 100

112 0.5 4.2 6.4#

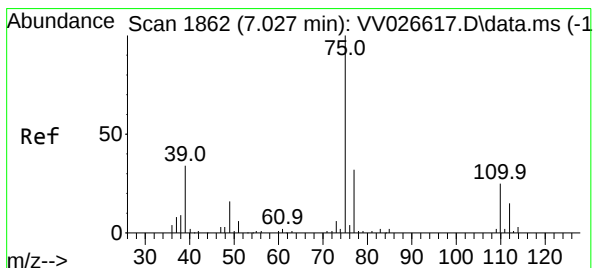
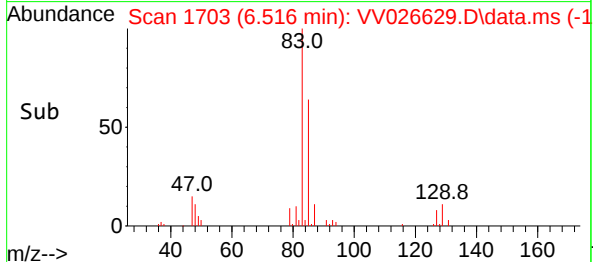
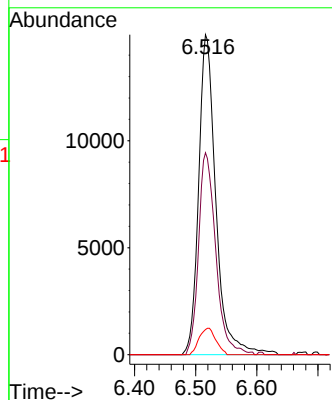
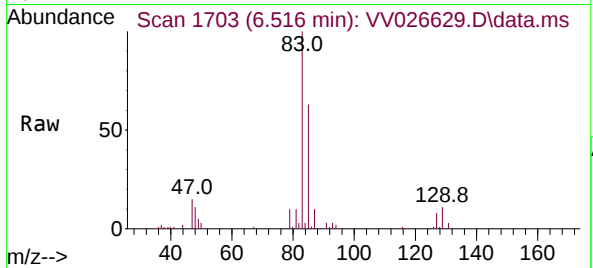




#38
Bromodichloromethane
Concen: 1.751 ug/L
RT: 6.516 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

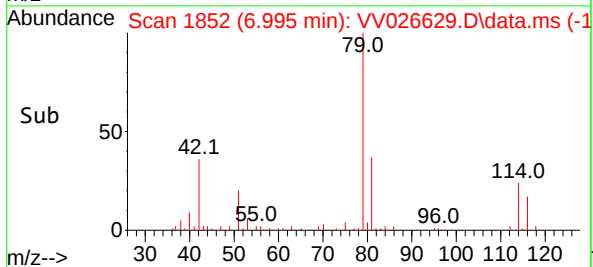
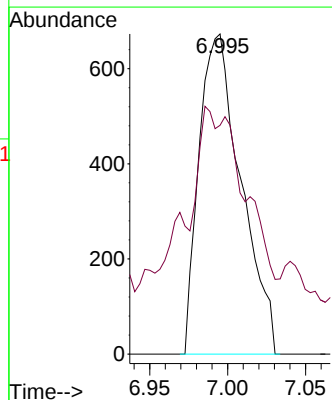
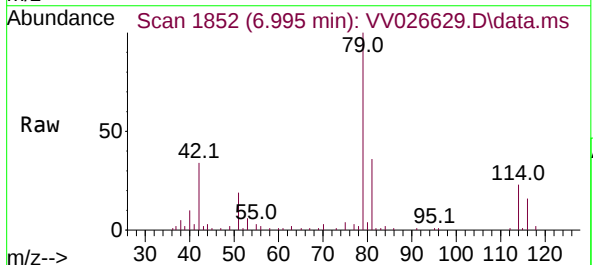
Instrument :
MSVOA_V
ClientSampleId :
C0AH7

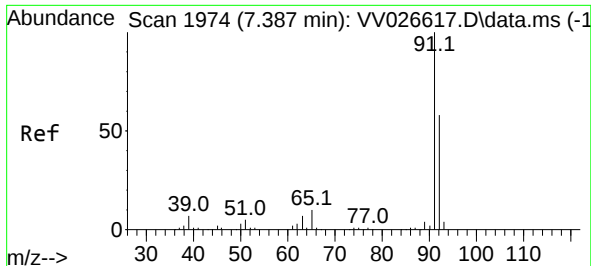
Tgt Ion: 83 Resp: 29275
Ion Ratio Lower Upper
83 100
85 63.1 44.0 81.8
127 7.8 6.6 10.0



#39
cis-1,3-Dichloropropene
Concen: 0.088 ug/L
RT: 6.995 min Scan# 1852
Delta R.T. -0.032 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 75 Resp: 1258
Ion Ratio Lower Upper
75 100
77 71.5 22.8 42.4#





#42

Toluene

Concen: 11.044 ug/L

RT: 7.391 min Scan# 1974

Delta R.T. 0.003 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

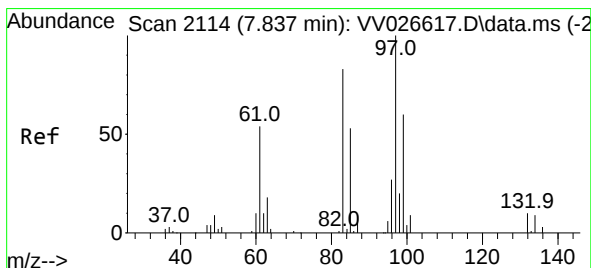
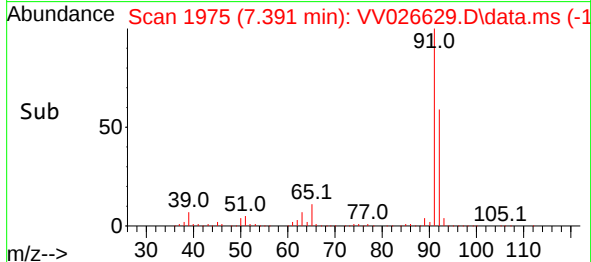
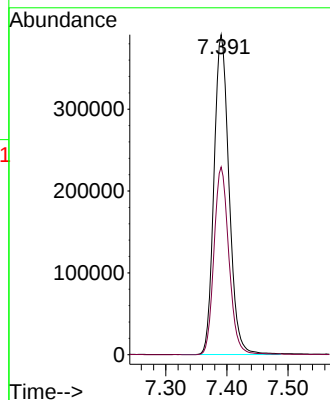
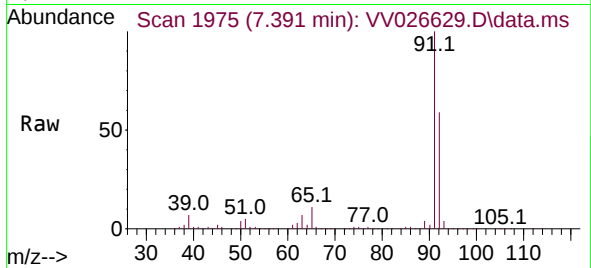
C0AH7

Tgt Ion: 91 Resp: 669803

Ion Ratio Lower Upper

91 100

92 58.7 40.3 74.9



#45

1,1,2-Trichloroethane

Concen: 0.215 ug/L

RT: 7.789 min Scan# 2099

Delta R.T. -0.048 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Tgt Ion: 97 Resp: 1919

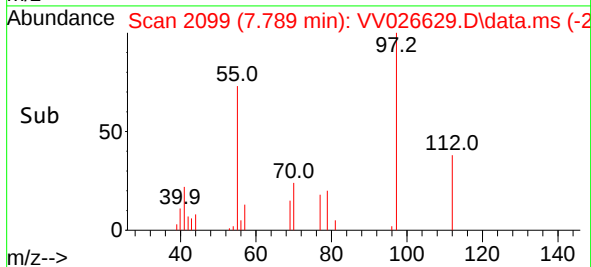
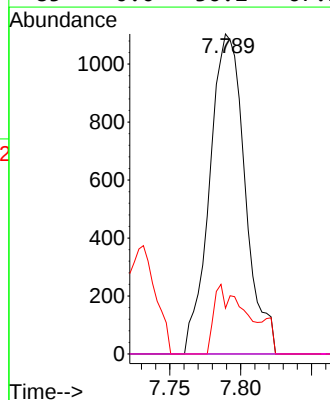
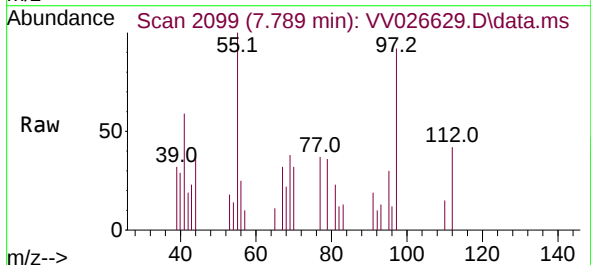
Ion Ratio Lower Upper

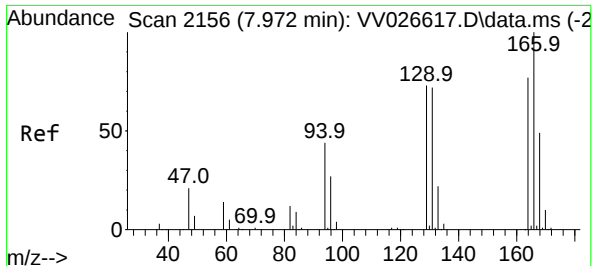
97 100

99 0.0 43.4 80.6#

83 14.3 58.0 107.8#

85 0.0 36.2 67.2#





#47

Tetrachloroethene

Concen: 14.329 ug/L

RT: 7.976 min Scan# 2156

Delta R.T. 0.003 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

C0AH7

Tgt Ion:164 Resp: 176190

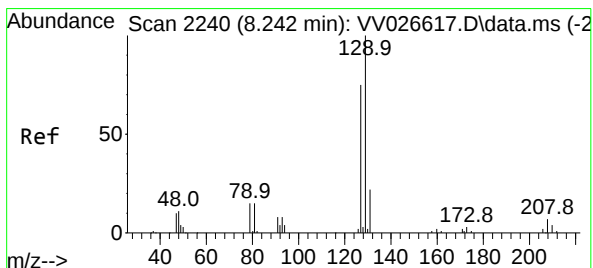
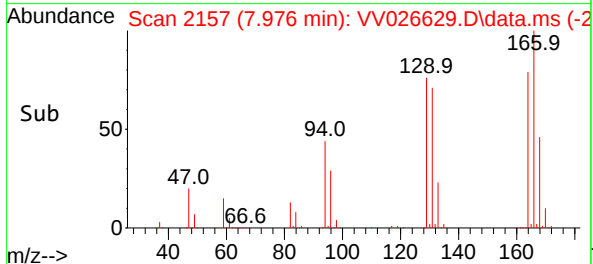
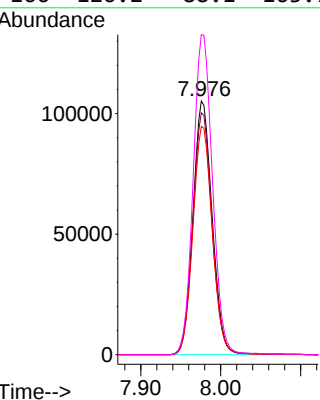
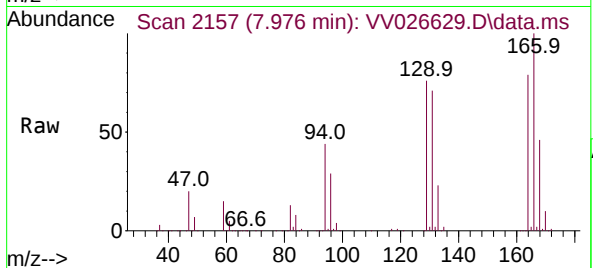
Ion Ratio Lower Upper

164 100

129 95.4 66.4 123.2

131 90.0 64.4 119.6

166 126.2 88.1 163.7



#49

Dibromochloromethane

Concen: 2.632 ug/L

RT: 8.249 min Scan# 2242

Delta R.T. 0.007 min

Lab File: VV026629.D

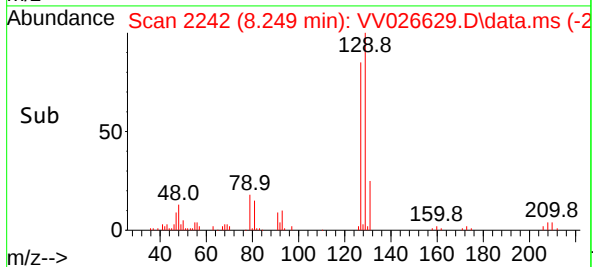
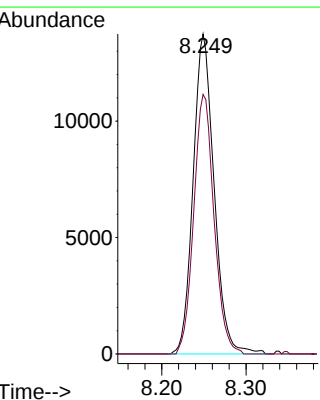
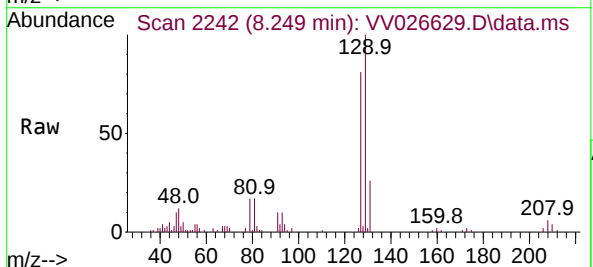
Acq: 01 Jul 2022 15:04

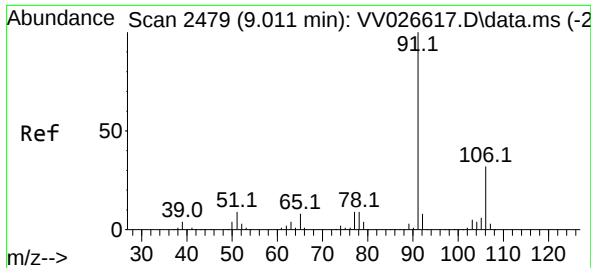
Tgt Ion:129 Resp: 23793

Ion Ratio Lower Upper

129 100

127 81.1 54.2 100.6

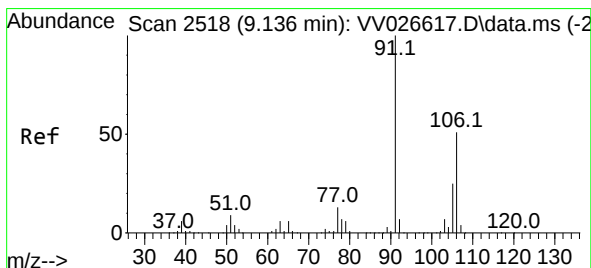
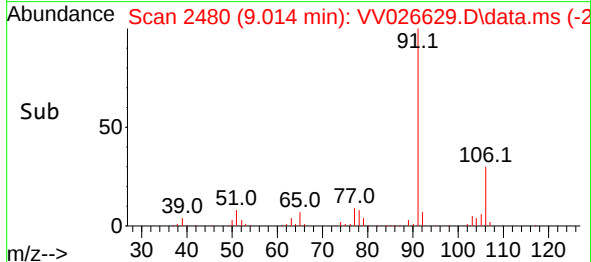
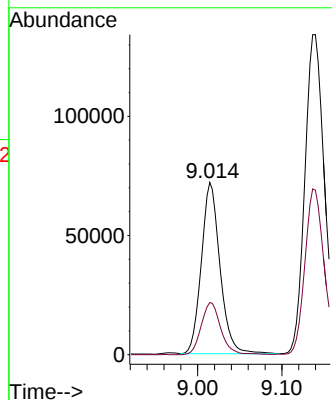
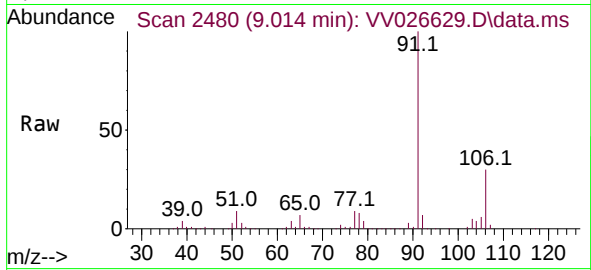




#52
Ethylbenzene
Concen: 1.764 ug/L
RT: 9.014 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

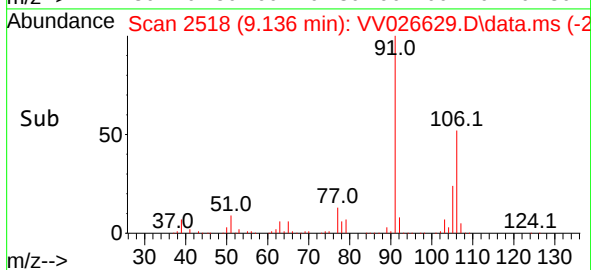
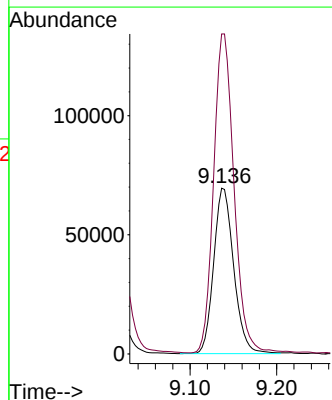
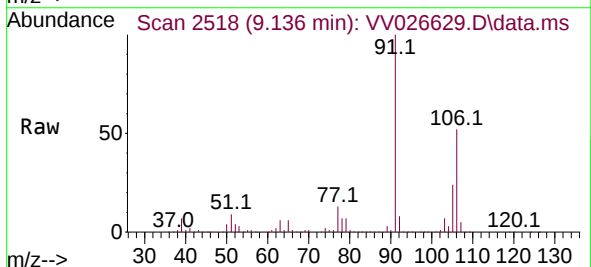
Instrument :
MSVOA_V
ClientSampleId :
C0AH7

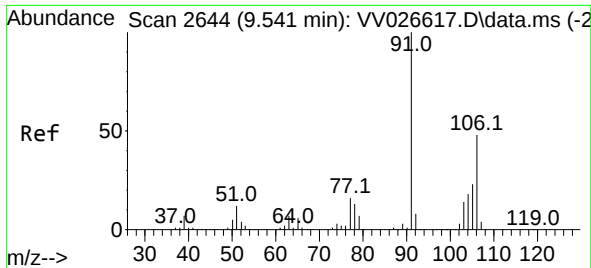
Tgt Ion: 91 Resp: 110665
Ion Ratio Lower Upper
91 100
106 30.3 22.1 41.1



#53
m,p-Xylene
Concen: 4.566 ug/L
RT: 9.136 min Scan# 2518
Delta R.T. 0.000 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion: 106 Resp: 111719
Ion Ratio Lower Upper
106 100
91 193.0 139.9 259.9

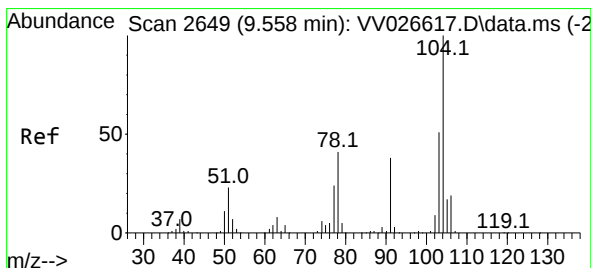
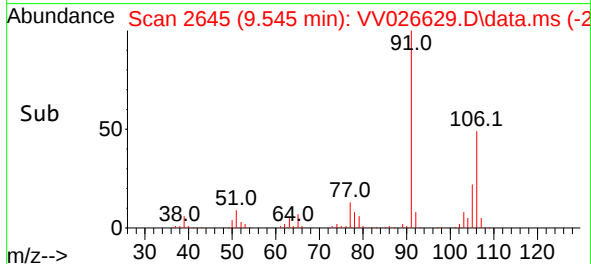
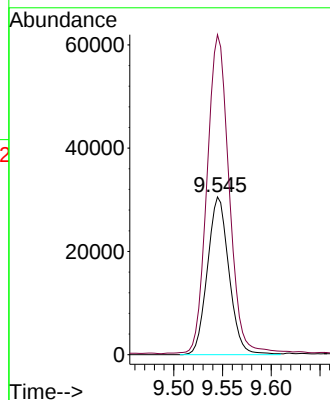
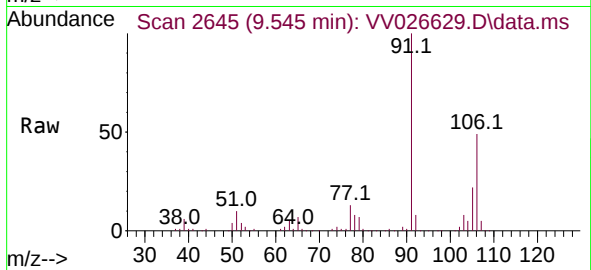




#54
o-Xylene
Concen: 2.045 ug/L
RT: 9.545 min Scan# 2651
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

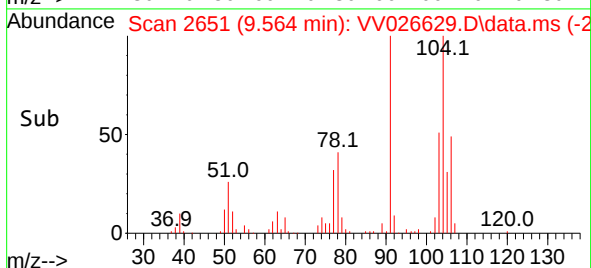
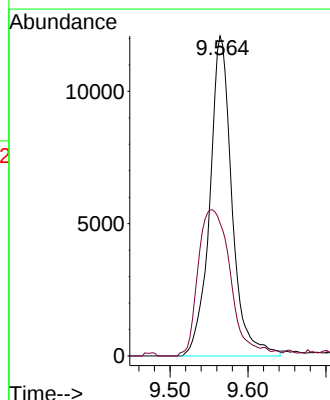
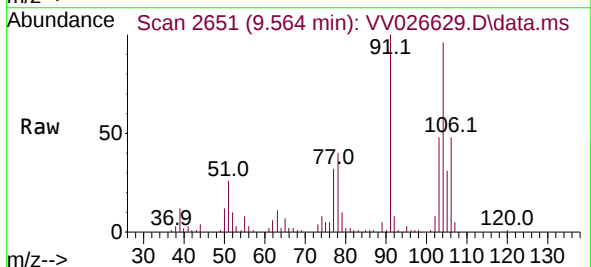
Instrument :
MSVOA_V
ClientSampleId :
C0AH7

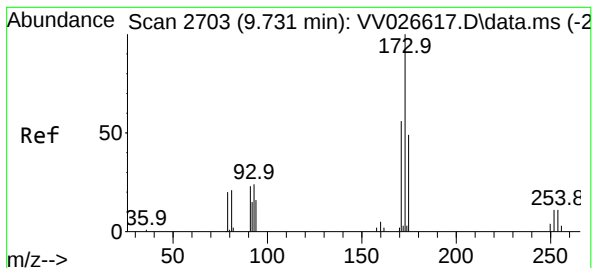
Tgt Ion:106 Resp: 46974
Ion Ratio Lower Upper
106 100
91 202.9 147.5 273.9



#55
Styrene
Concen: 0.630 ug/L
RT: 9.564 min Scan# 2651
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion:104 Resp: 23984
Ion Ratio Lower Upper
104 100
78 41.5 28.4 52.8





#59

Bromoform

Concen: 1.863 ug/L

RT: 9.731 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

C0AH7

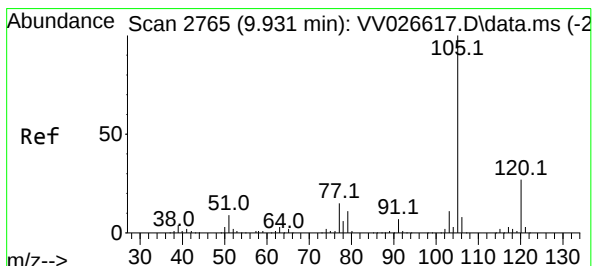
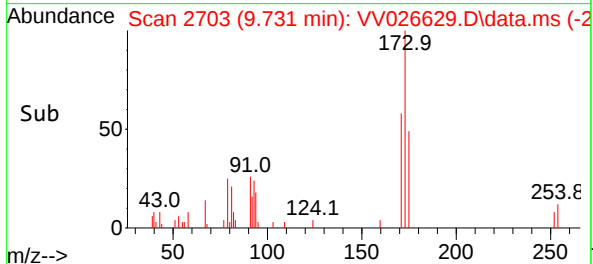
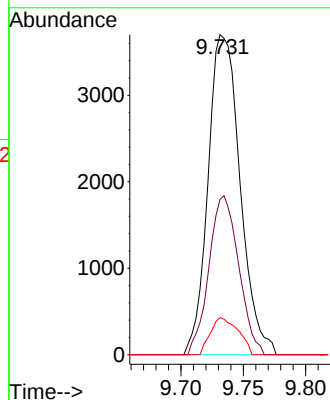
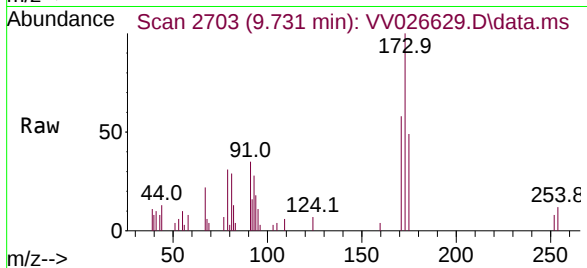
Tgt Ion:173 Resp: 6639

Ion Ratio Lower Upper

173 100

175 46.0 37.9 56.9

254 10.0 6.3 9.5#



#60

Isopropylbenzene

Concen: 0.118 ug/L

RT: 9.934 min Scan# 2766

Delta R.T. 0.003 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

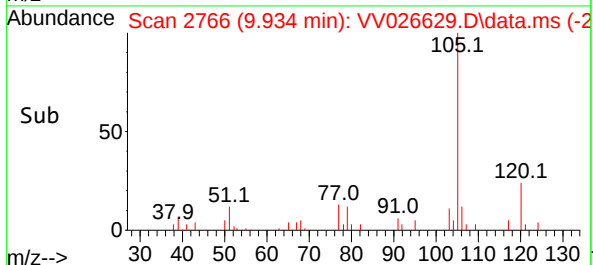
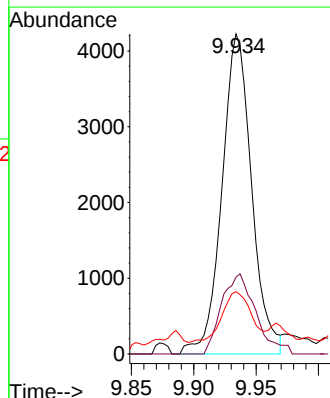
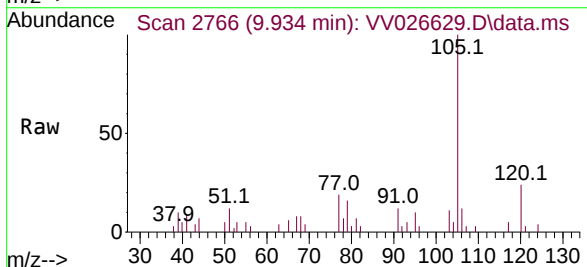
Tgt Ion:105 Resp: 7007

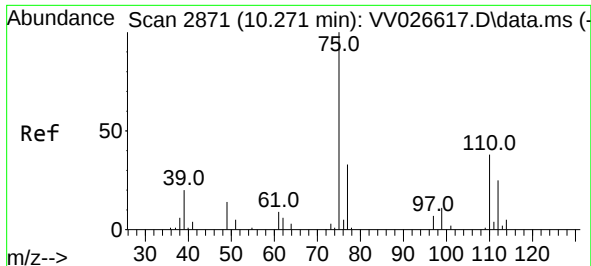
Ion Ratio Lower Upper

105 100

120 28.8 21.4 32.2

77 14.9 11.6 17.4





#61

1,2,3-Trichloropropane

Concen: 0.088 ug/L

RT: 10.445 min Scan# 2925

Delta R.T. 0.174 min

Lab File: VV026629.D

Acq: 01 Jul 2022 15:04

Instrument :

MSVOA_V

ClientSampleId :

C0AH7

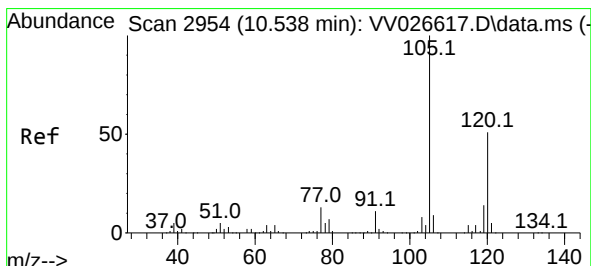
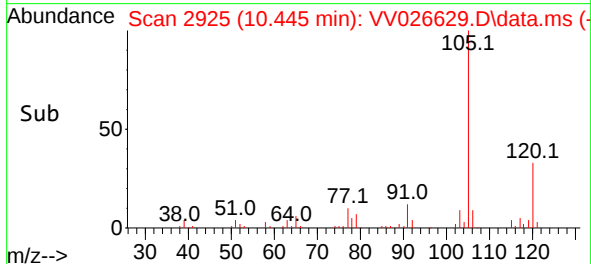
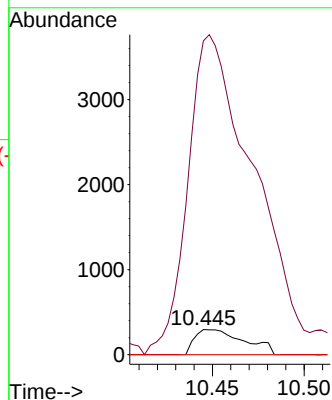
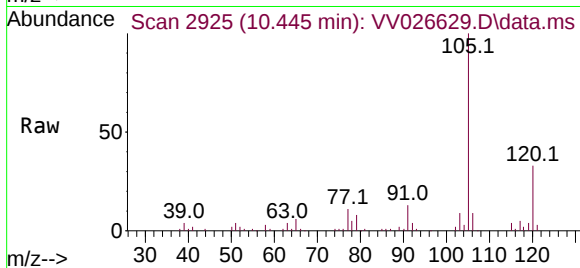
Tgt Ion: 75 Resp: 553

Ion Ratio Lower Upper

75 100

77 1697.3 25.8 38.6#

110 0.0 32.5 48.7#



#62

1,3,5-Trimethylbenzene

Concen: 0.278 ug/L

RT: 10.542 min Scan# 2955

Delta R.T. 0.003 min

Lab File: VV026629.D

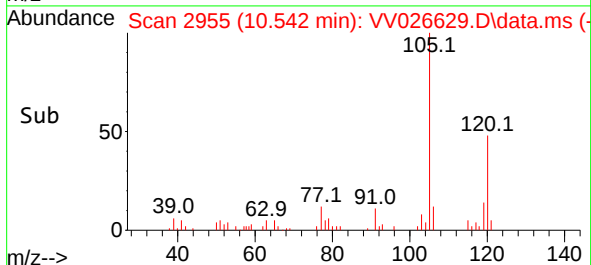
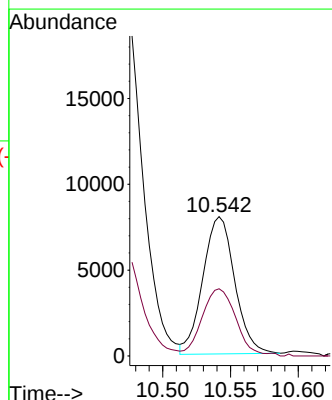
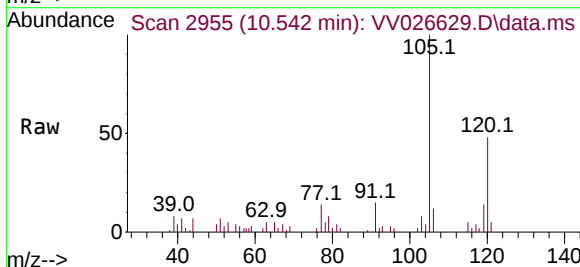
Acq: 01 Jul 2022 15:04

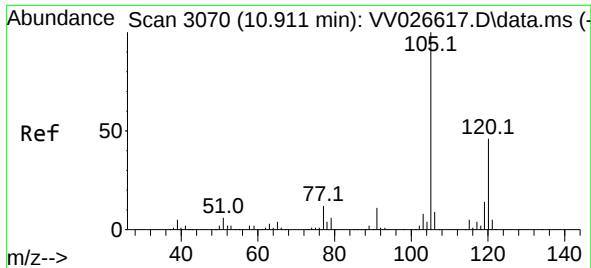
Tgt Ion: 105 Resp: 13081

Ion Ratio Lower Upper

105 100

120 52.2 39.6 59.4

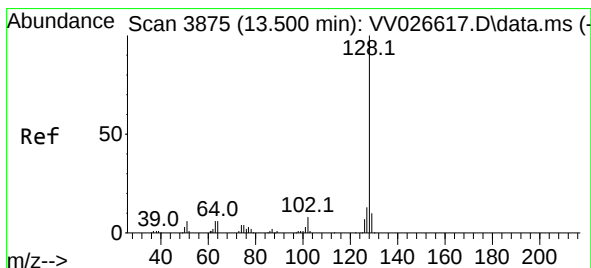
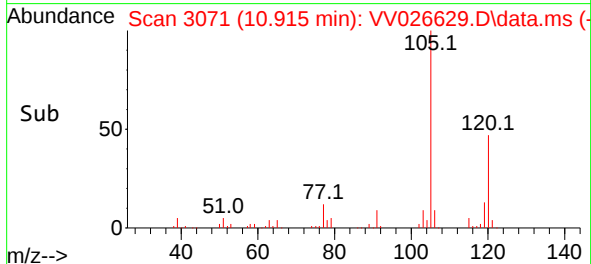
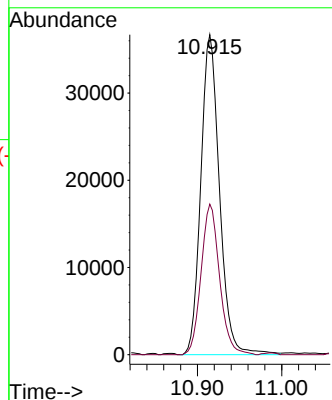
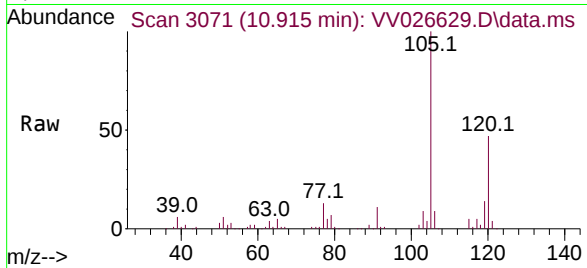




#63
1,2,4-Trimethylbenzene
Concen: 1.219 ug/L
RT: 10.915 min Scan# 3070
Delta R.T. 0.003 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Instrument :
MSVOA_V
ClientSampleId :
C0AH7

Tgt Ion:105 Resp: 56648
Ion Ratio Lower Upper
105 100
120 46.6 37.4 56.2



#71
Naphthalene
Concen: 1.010 ug/L
RT: 13.506 min Scan# 3877
Delta R.T. 0.007 min
Lab File: VV026629.D
Acq: 01 Jul 2022 15:04

Tgt Ion:128 Resp: 19405
Ion Ratio Lower Upper
128 100
129 12.5 8.6 12.8
127 14.4 10.2 15.4

