

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111522\
 Data File : VW028994.D
 Acq On : 15 Nov 2022 17:21
 Operator : SY/MD
 Sample : N5628-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 COL14

Quant Time: Nov 16 03:20:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 16 03:16:14 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	271547	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	250712	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	120044	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	49921	3.015	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.400%
7) Chloroethane-d5	1.568	69	54465	3.742	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.800%
11) 1,1-Dichloroethene-d2	2.105	63	77637	2.573	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.400%#
20) 2-Butanone-d5	3.883	46	182964	66.023	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	132.040%#
24) Chloroform-d	4.343	84	151777	4.466	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
26) 1,2-Dichloroethane-d4	5.027	65	71827	4.697	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
32) Benzene-d6	5.043	84	301520	4.029	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.600%
36) 1,2-Dichloropropane-d6	6.066	67	93898	4.493	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.800%
41) Toluene-d8	7.310	98	254444	3.777	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.600%
43) trans-1,3-Dichloroprop...	7.622	79	25344	3.719	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.400%
46) 2-Hexanone-d5	8.085	63	145040	49.857	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.720%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	72335	4.993	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.800%
66) 1,2-Dichlorobenzene-d4	11.616	152	96438	4.490	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.243	50	1202	0.064	ug/L	83
5) Vinyl chloride	1.311	62	184123	8.592	ug/L	97
6) Bromomethane	1.523	94	1205	0.094	ug/L	77
8) Chloroethane	1.413	64	112896	8.965	ug/L #	52
12) 1,1-Dichloroethene	2.114	96	5992	0.365	ug/L #	1
17) Methyl tert-butyl Ether	2.767	73	1359	0.039	ug/L #	30
18) trans-1,2-Dichloroethene	2.761	96	11739	0.616	ug/L	95
19) 1,1-Dichloroethane	3.195	63	3924	0.126	ug/L	91
22) cis-1,2-Dichloroethene	3.902	96	2312116	119.288	ug/L	96
25) Chloroform	4.371	83	3536	0.108	ug/L	100
29) 1,1,1-Trichloroethane	4.609	97	503	0.017	ug/L #	64
30) Cyclohexane	4.680	56	1993	0.067	ug/L #	57
33) Benzene	5.101	78	6082	0.079	ug/L	100
34) Trichloroethene	5.908	95	2980426	151.956	ug/L	99
35) Methylcyclohexane	6.124	83	3097	0.090	ug/L #	65
37) 1,2-Dichloropropane	6.063	63	10185	0.576	ug/L #	85
39) cis-1,3-Dichloropropene	6.986	75	1849	0.075	ug/L #	52
42) Toluene	7.384	91	247564	2.991	ug/L	100
47) Tetrachloroethene	7.976	164	2315	0.147	ug/L	80

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

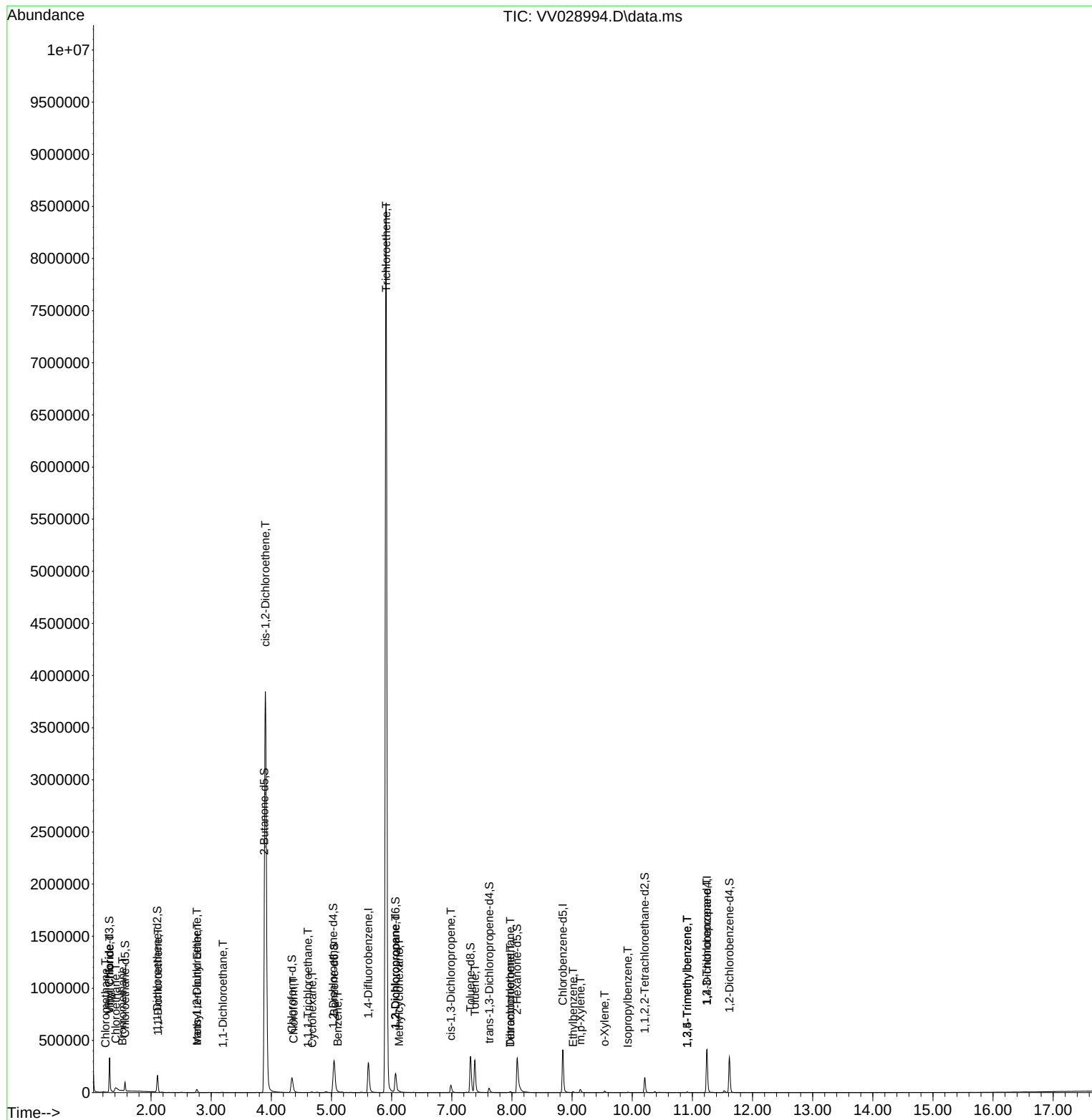
49) Dibromochloromethane	7.976	129	1852	0.132	ug/L #	10
52) Ethylbenzene	9.014	91	7101	0.082	ug/L	100
53) m,p-Xylene	9.140	106	10990	0.321	ug/L	91
54) o-Xylene	9.542	106	4741	0.146	ug/L	85
60) Isopropylbenzene	9.928	105	3810	0.049	ug/L	94
61) 1,2,3-Trichloropropane	11.239	75	12039	1.468	ug/L #	63
62) 1,3,5-Trimethylbenzene	10.915	105	4430	0.067	ug/L	93
63) 1,2,4-Trimethylbenzene	10.915	105	4430	0.067	ug/L	89

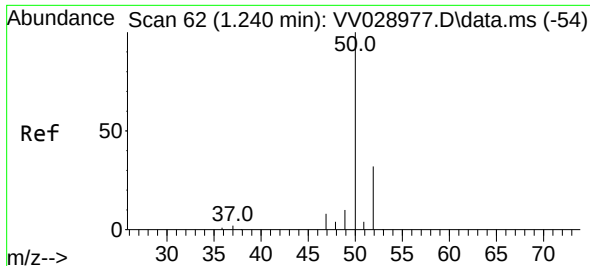
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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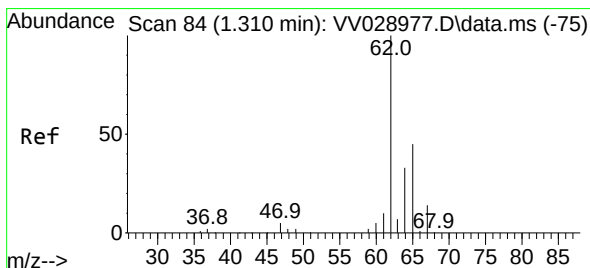
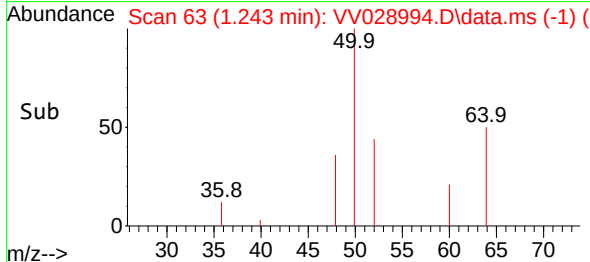
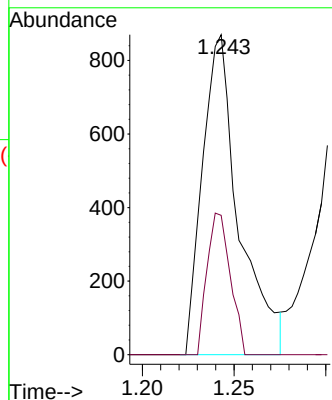
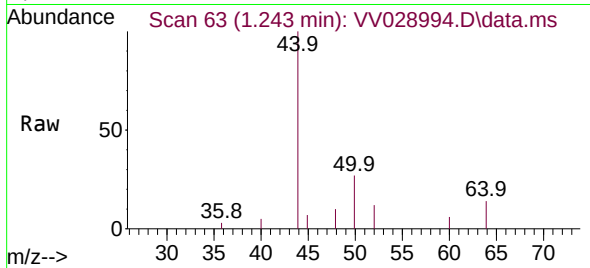




#3
Chloromethane
Concen: 0.064 ug/L
RT: 1.243 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

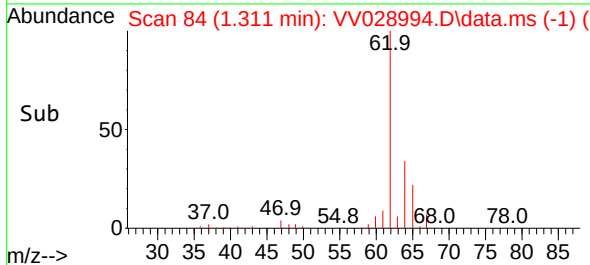
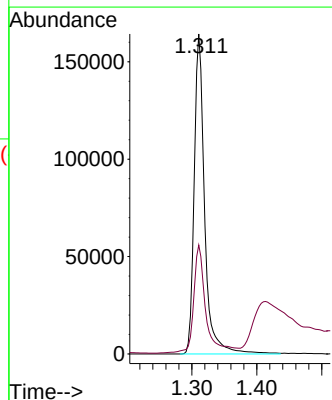
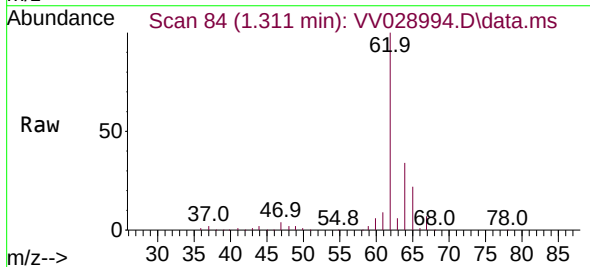
Instrument :
MSVOA_V
ClientSampleId :
COL14

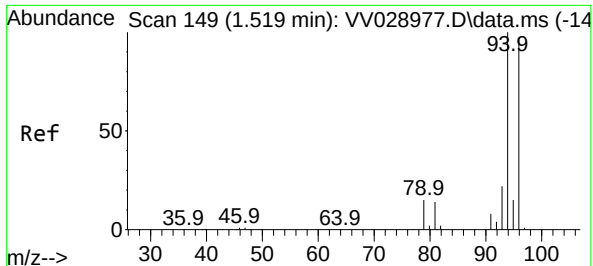
Tgt Ion: 50 Resp: 1202
Ion Ratio Lower Upper
50 100
52 43.6 23.7 43.9



#5
Vinyl chloride
Concen: 8.592 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.000 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion: 62 Resp: 184123
Ion Ratio Lower Upper
62 100
64 34.0 22.8 42.4

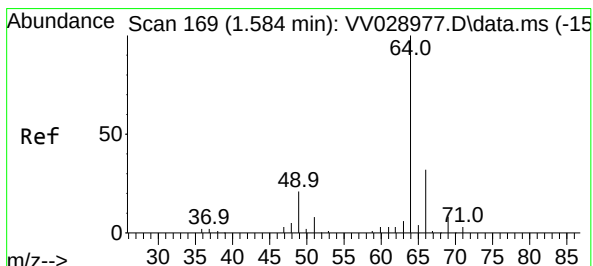
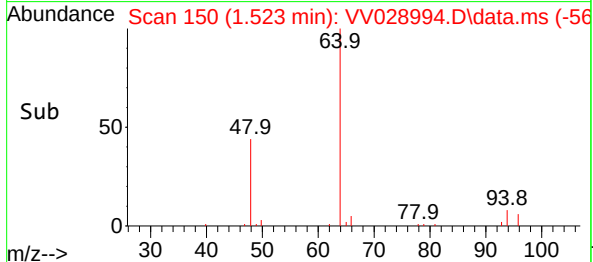
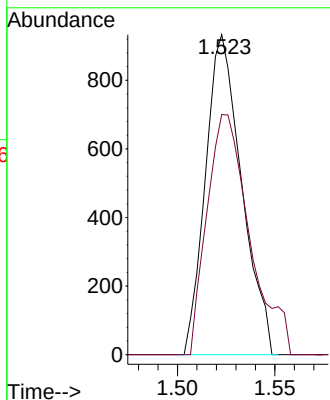
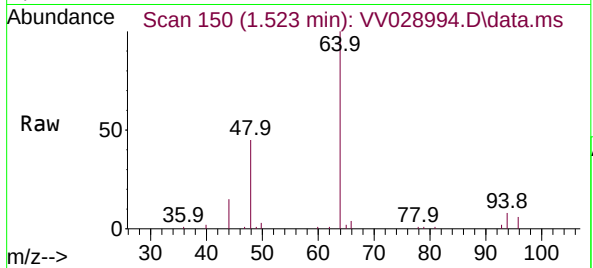




#6
Bromomethane
Concen: 0.094 ug/L
RT: 1.523 min Scan# 116
Delta R.T. 0.003 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

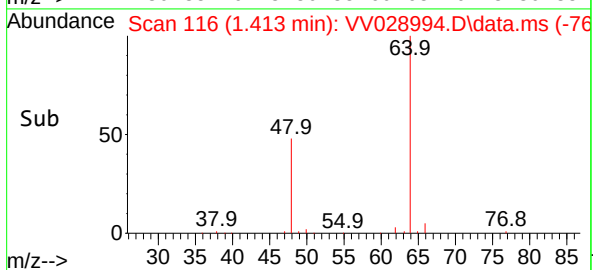
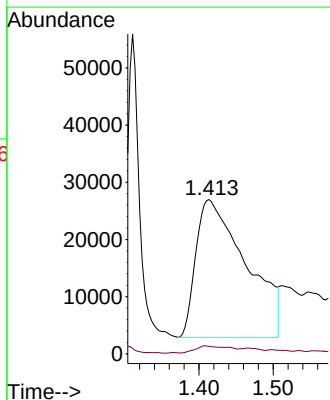
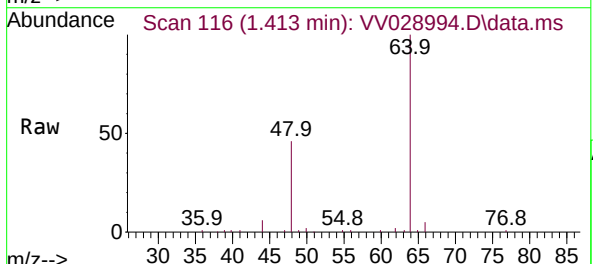
Instrument :
MSVOA_V
ClientSampleId :
COL14

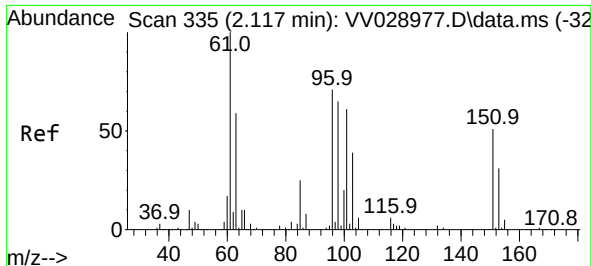
Tgt Ion: 94 Resp: 1205
Ion Ratio Lower Upper
94 100
96 75.0 68.5 127.3



#8
Chloroethane
Concen: 8.965 ug/L
RT: 1.413 min Scan# 116
Delta R.T. -0.170 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion: 64 Resp: 112896
Ion Ratio Lower Upper
64 100
66 5.0 22.0 40.8#





#12

1,1-Dichloroethene

Concen: 0.365 ug/L

RT: 2.114 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV028994.D

Acq: 15 Nov 2022 17:21

Instrument :

MSVOA_V

ClientSampleId :

COL14

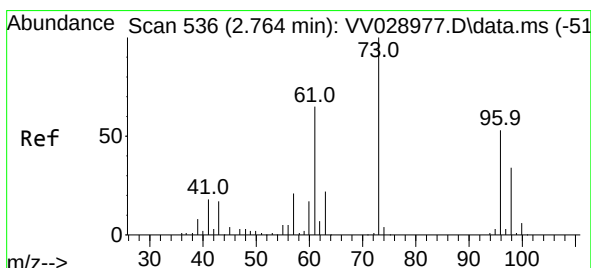
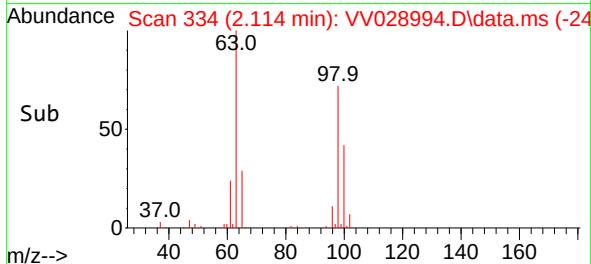
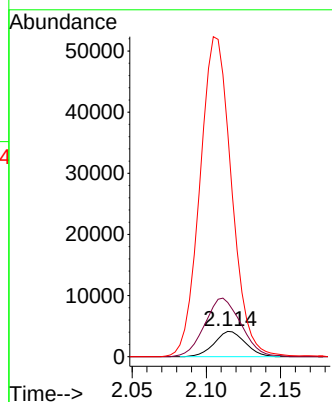
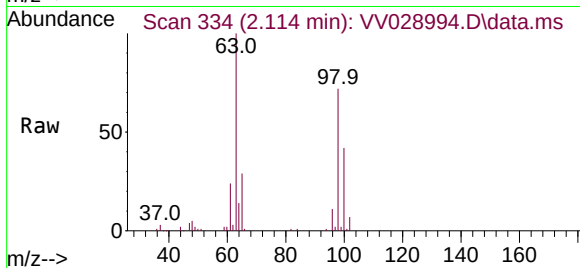
Tgt Ion: 96 Resp: 5992

Ion Ratio Lower Upper

96 100

61 213.7 104.2 193.4#

63 886.6 75.9 140.9#



#17

Methyl tert-butyl Ether

Concen: 0.039 ug/L

RT: 2.767 min Scan# 537

Delta R.T. 0.003 min

Lab File: VV028994.D

Acq: 15 Nov 2022 17:21

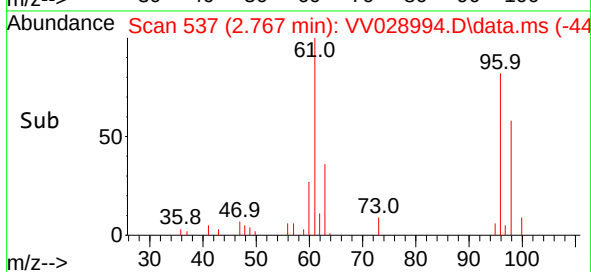
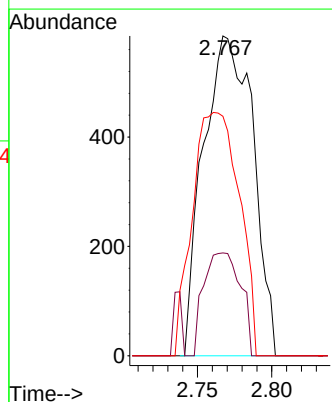
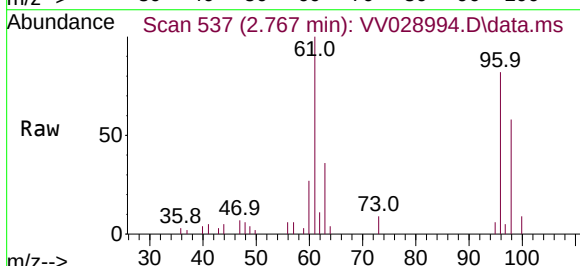
Tgt Ion: 73 Resp: 1359

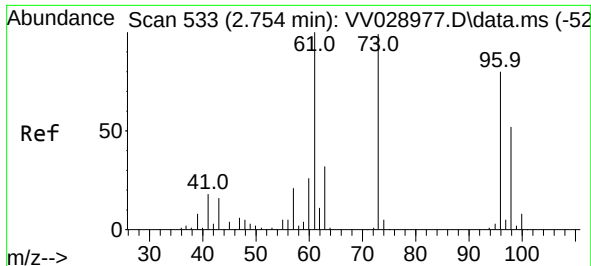
Ion Ratio Lower Upper

73 100

43 23.9 13.0 19.4#

57 71.9 16.6 24.8#

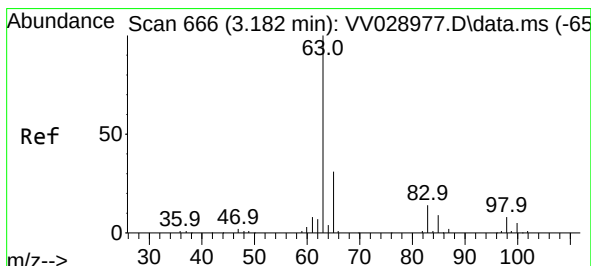
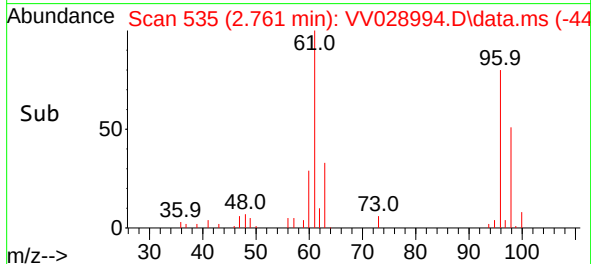
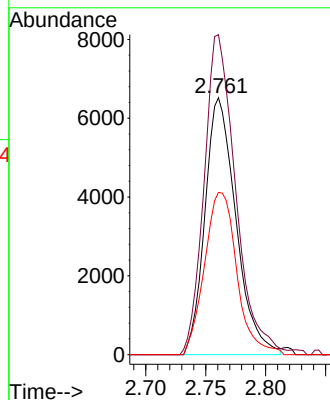
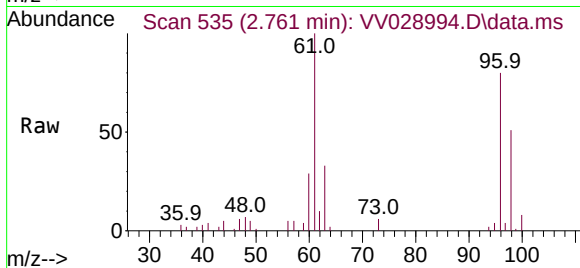




#18
 trans-1,2-Dichloroethene
 Concen: 0.616 ug/L
 RT: 2.761 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VV028994.D
 Acq: 15 Nov 2022 17:21

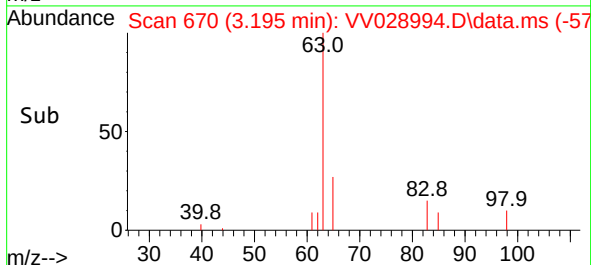
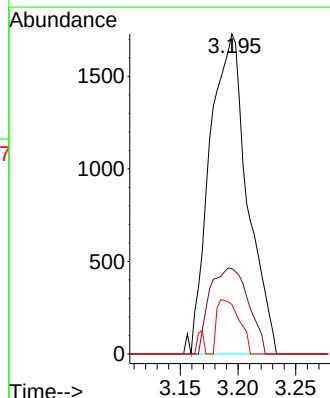
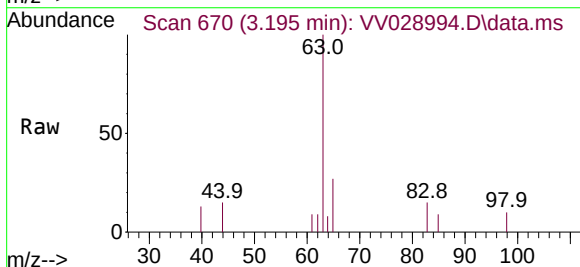
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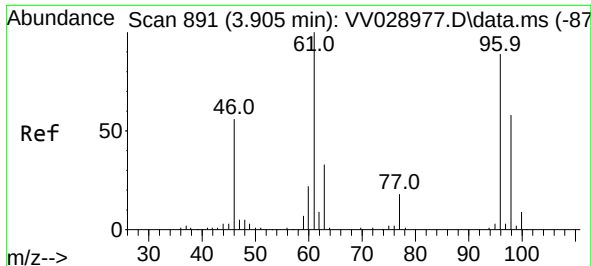
Tgt Ion:	96	Resp:	11739
Ion	Ratio	Lower	Upper
96	100		
61	124.6	91.8	170.6
98	63.2	46.4	86.2



#19
 1,1-Dichloroethane
 Concen: 0.126 ug/L
 RT: 3.195 min Scan# 670
 Delta R.T. 0.013 min
 Lab File: VV028994.D
 Acq: 15 Nov 2022 17:21

Tgt Ion:	63	Resp:	3924
Ion	Ratio	Lower	Upper
63	100		
65	26.7	23.0	42.6
83	15.4	9.4	17.6





#22

cis-1,2-Dichloroethene

Concen: 119.288 ug/L

RT: 3.902 min Scan# 891

Delta R.T. -0.003 min

Lab File: VV028994.D

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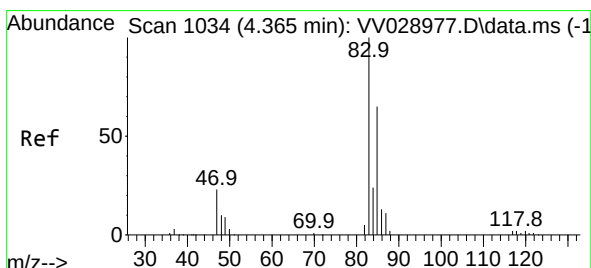
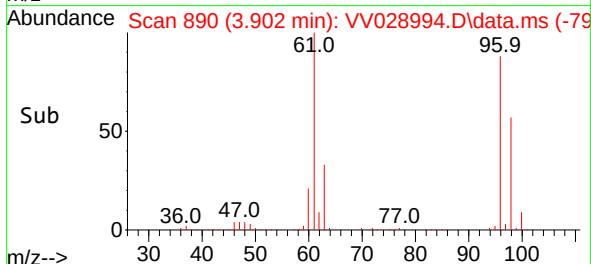
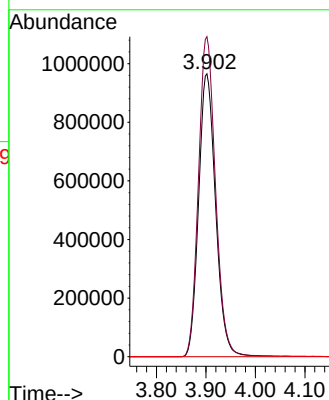
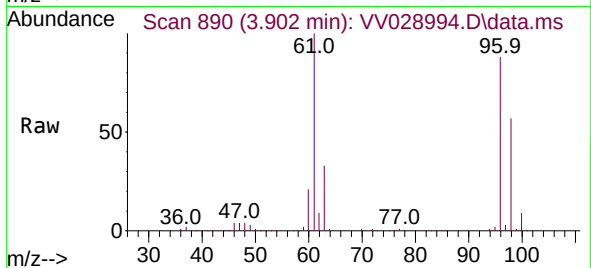
Tgt Ion: 96 Resp: 2312116

Ion Ratio Lower Upper

96 100

61 113.1 82.3 152.9

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.108 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VV028994.D

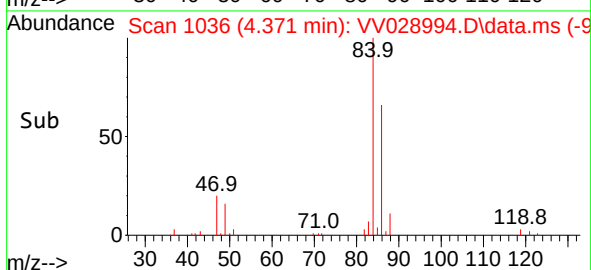
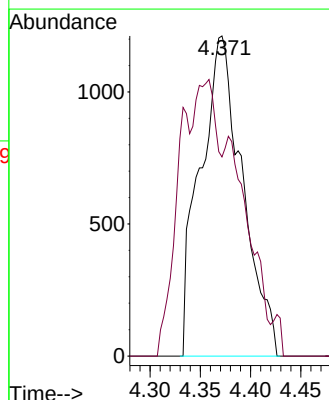
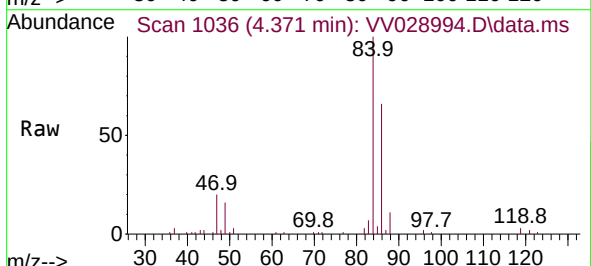
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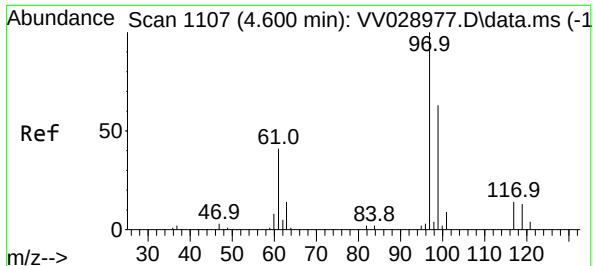
Tgt Ion: 83 Resp: 3536

Ion Ratio Lower Upper

83 100

85 62.2 43.7 81.1





#29

1,1,1-Trichloroethane

Concen: 0.017 ug/L

RT: 4.609 min Scan# 1107

Delta R.T. 0.010 min

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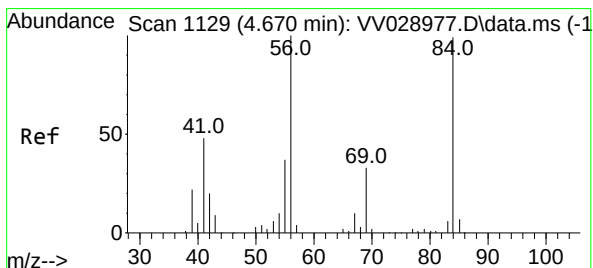
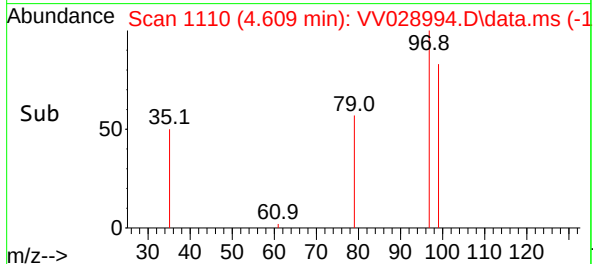
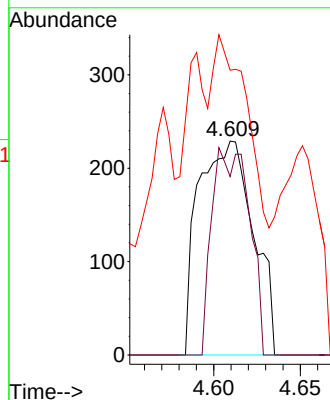
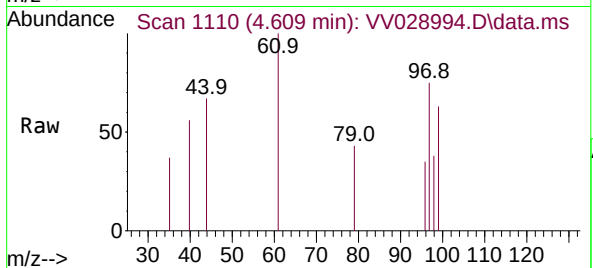
Tgt Ion: 97 Resp: 503

Ion Ratio Lower Upper

97 100

99 34.2 52.7 79.1#

61 61.4 33.8 50.6#



#30

Cyclohexane

Concen: 0.067 ug/L

RT: 4.680 min Scan# 1132

Delta R.T. 0.010 min

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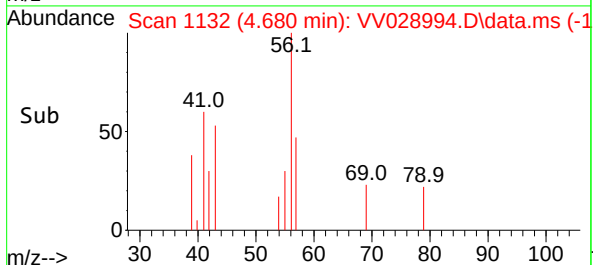
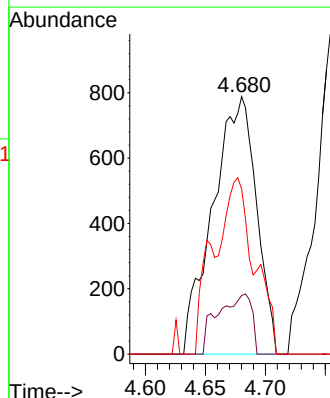
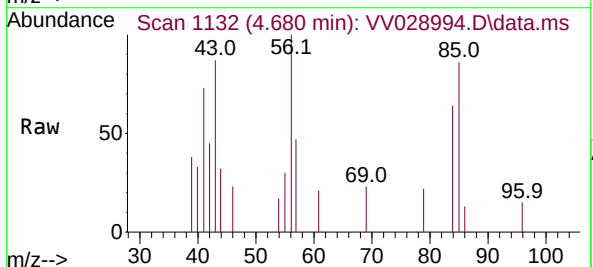
Tgt Ion: 56 Resp: 1993

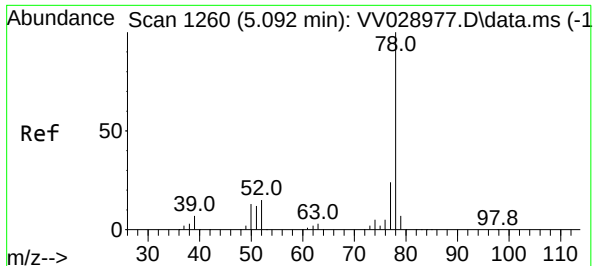
Ion Ratio Lower Upper

56 100

69 18.1 26.1 39.1#

84 49.9 77.9 116.9#

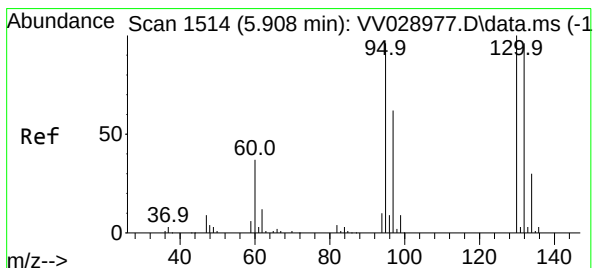
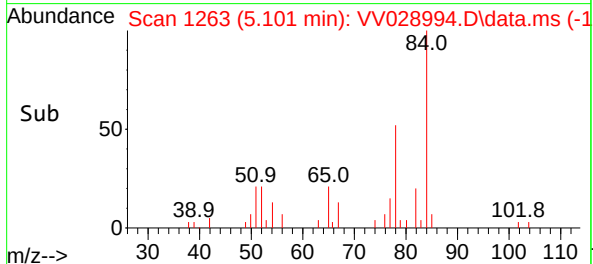
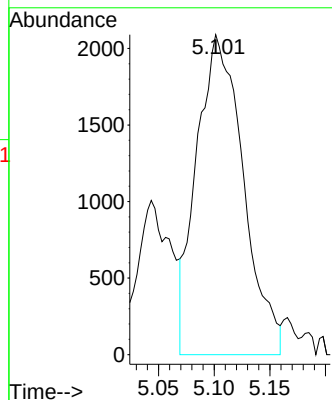
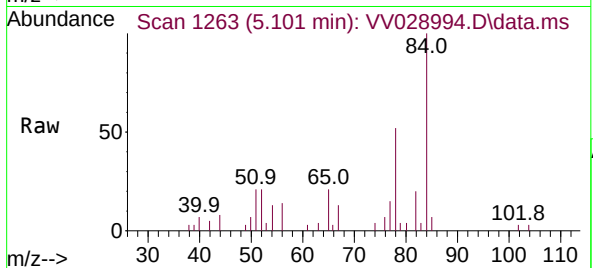




#33
Benzene
Concen: 0.079 ug/L
RT: 5.101 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Instrument :
MSVOA_V
ClientSampleId :
COL14

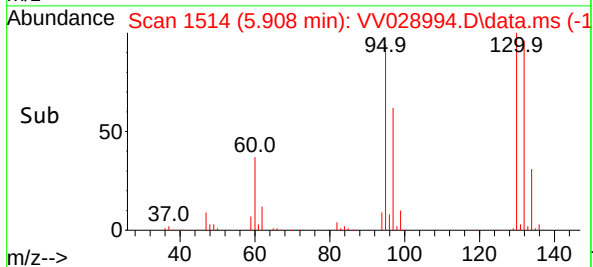
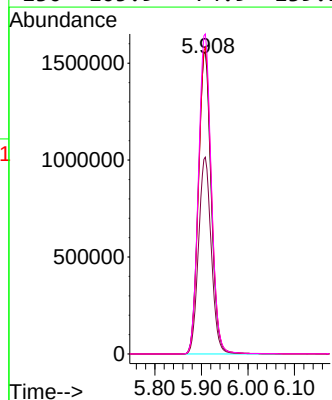
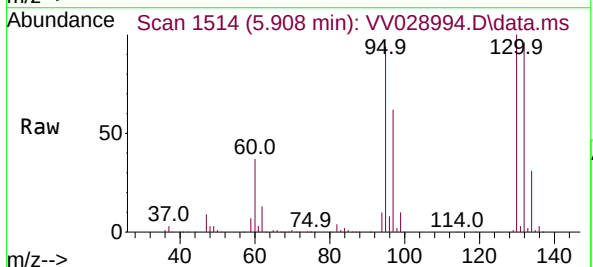
Tgt Ion: 78 Resp: 6082

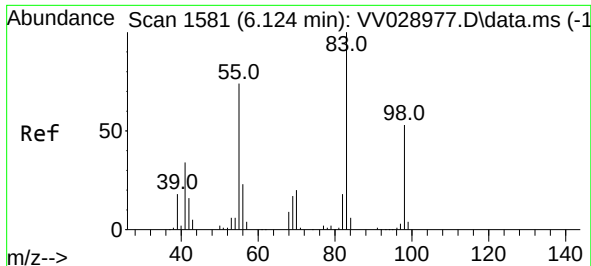


#34
Trichloroethene
Concen: 151.956 ug/L
RT: 5.908 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion: 95 Resp: 2980426

Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.6	84.8
132	101.5	69.1	128.3
130	105.9	74.9	139.1

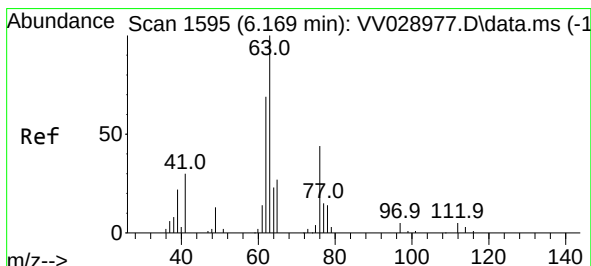
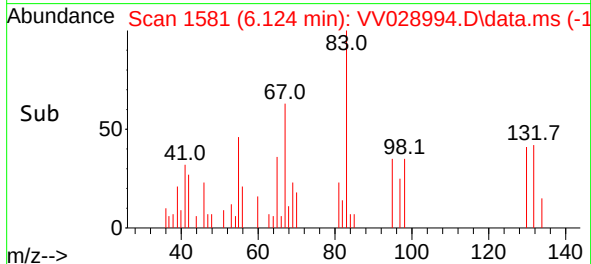
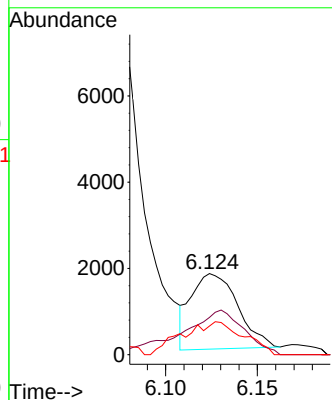
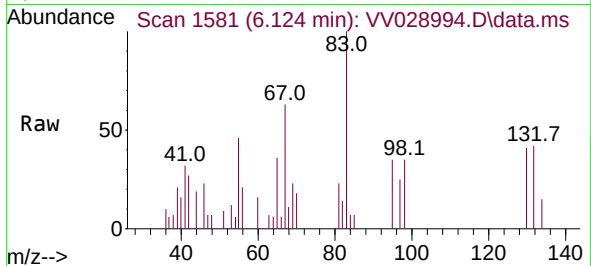




#35
Methylcyclohexane
Concen: 0.090 ug/L
RT: 6.124 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

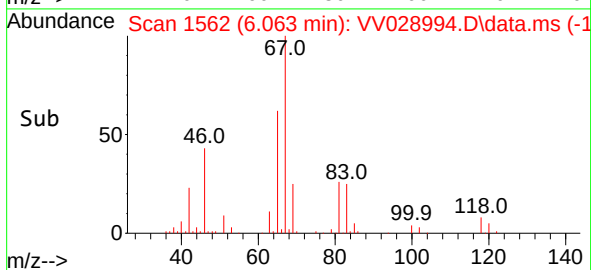
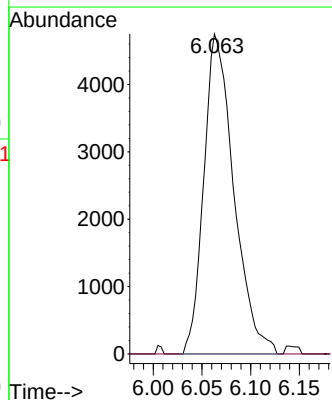
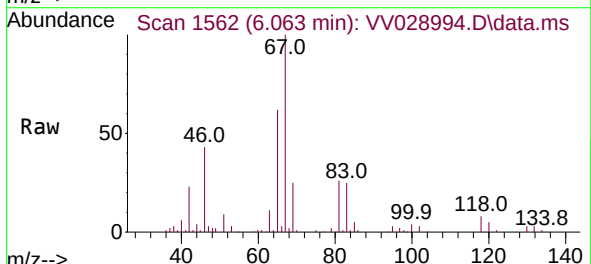
Instrument :
MSVOA_V
ClientSampleId :
COL14

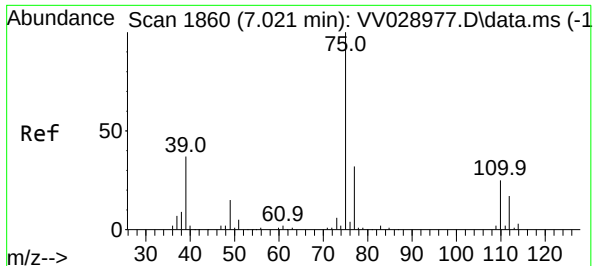
Tgt Ion: 83 Resp: 3097
Ion Ratio Lower Upper
83 100
55 78.9 55.8 83.6
98 0.0 38.2 57.2#



#37
1,2-Dichloropropane
Concen: 0.576 ug/L
RT: 6.063 min Scan# 1562
Delta R.T. -0.106 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion: 63 Resp: 10185
Ion Ratio Lower Upper
63 100
112 0.0 4.0 6.0#





#39

cis-1,3-Dichloropropene

Concen: 0.075 ug/L

RT: 6.986 min Scan# 1849

Delta R.T. -0.035 min

Lab File: VV028994.D

Acq: 15 Nov 2022 17:21

Instrument :

MSVOA_V

ClientSampleId :

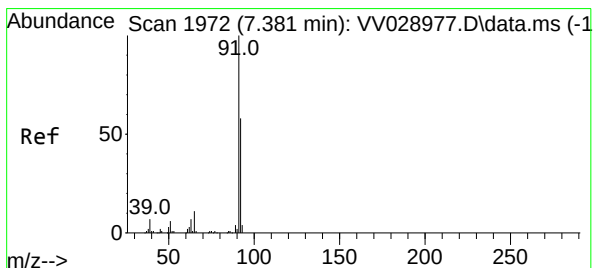
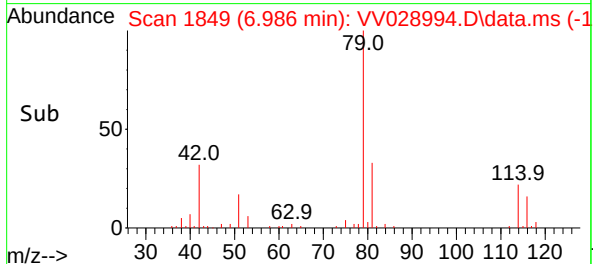
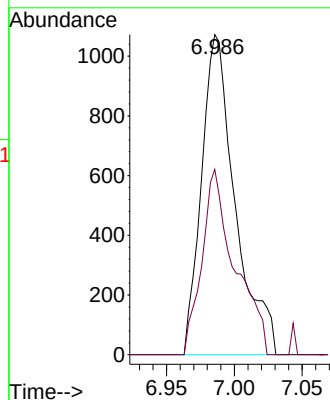
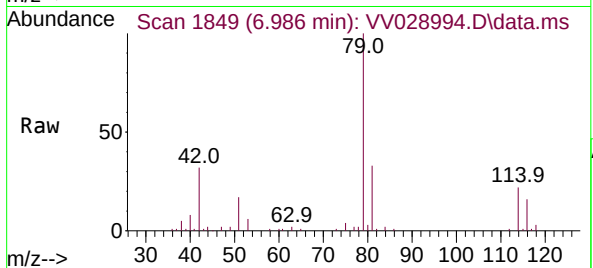
COL14

Tgt Ion: 75 Resp: 1849

Ion Ratio Lower Upper

75 100

77 57.9 21.8 40.6#



#42

Toluene

Concen: 2.991 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.003 min

Lab File: VV028994.D

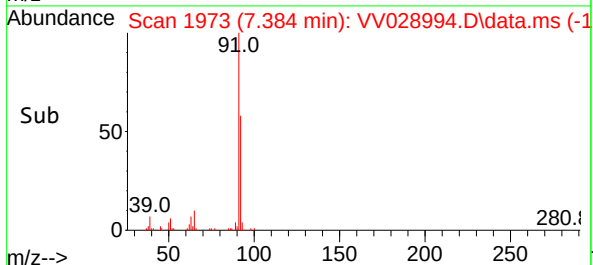
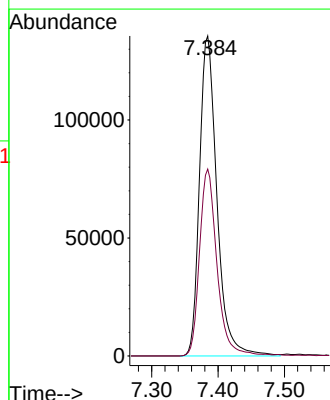
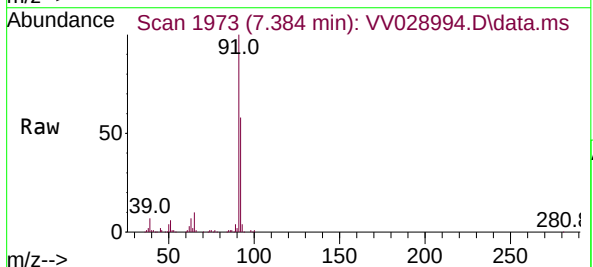
Acq: 15 Nov 2022 17:21

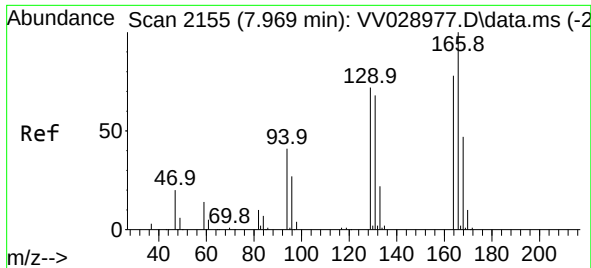
Tgt Ion: 91 Resp: 247564

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.5

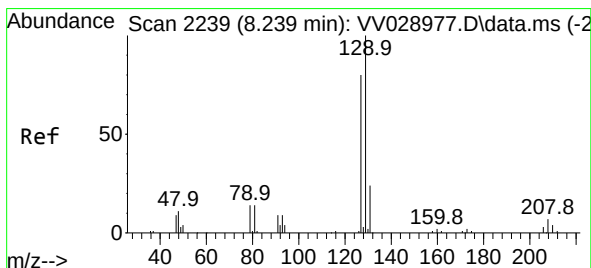
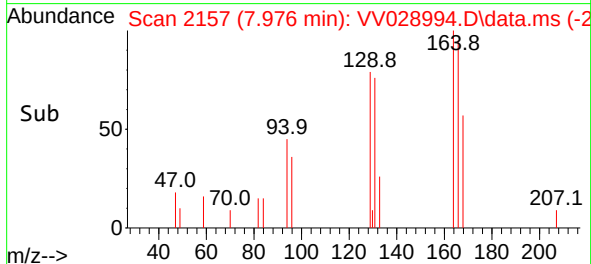
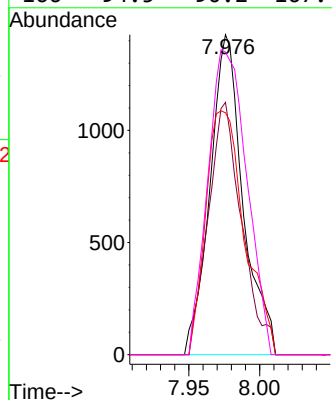
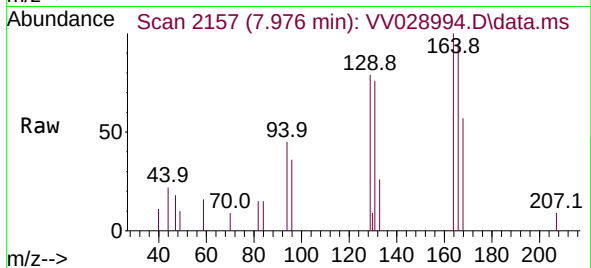




#47
Tetrachloroethene
Concen: 0.147 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.007 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

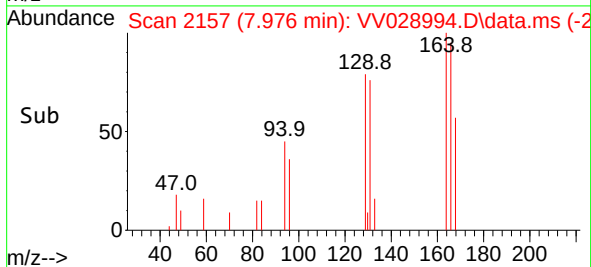
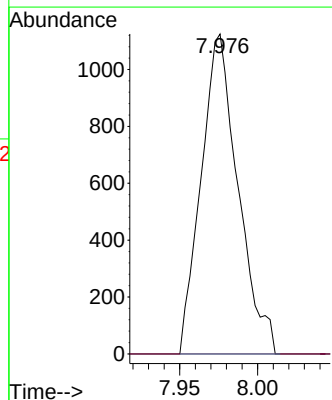
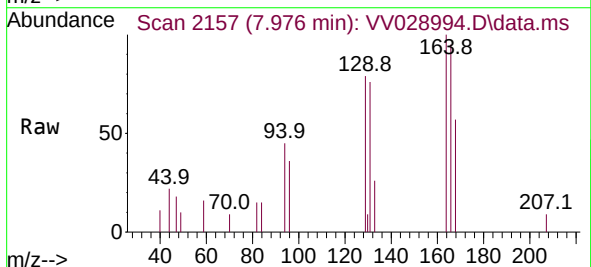
Instrument :
MSVOA_V
ClientSampleId :
COL14

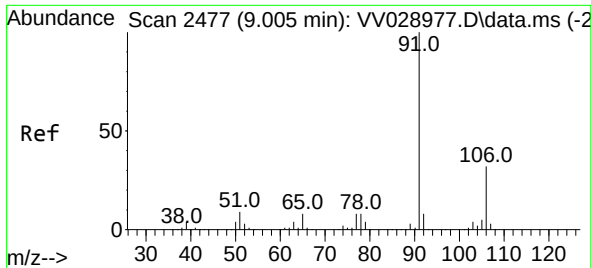
Tgt Ion:164	Resp:	2315	
Ion	Ratio	Lower	Upper
164	100		
129	78.8	63.9	118.7
131	75.6	61.8	114.8
166	94.5	90.2	167.4



#49
Dibromochloromethane
Concen: 0.132 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.264 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion:129	Resp:	1852	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.5	101.1#

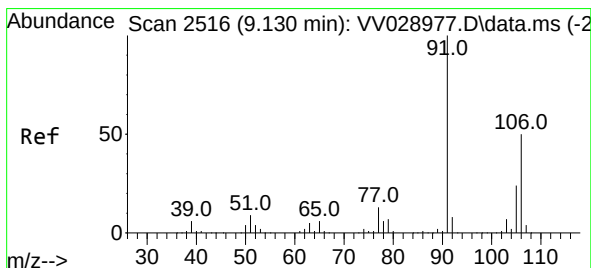
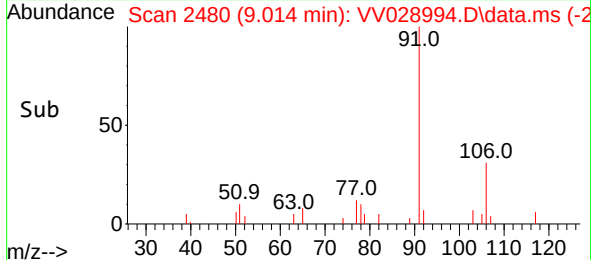
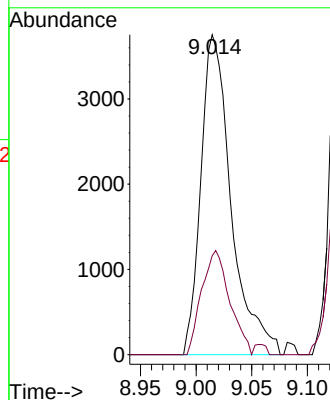
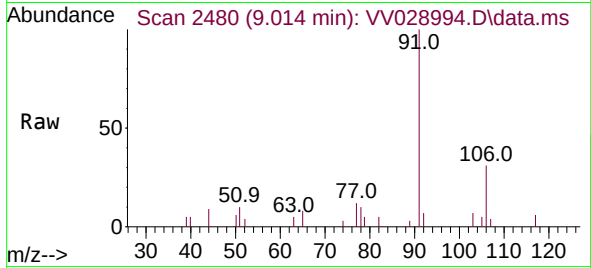




#52
Ethylbenzene
Concen: 0.082 ug/L
RT: 9.014 min Scan# 2477
Delta R.T. 0.010 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

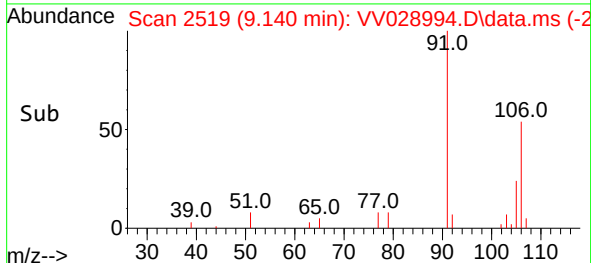
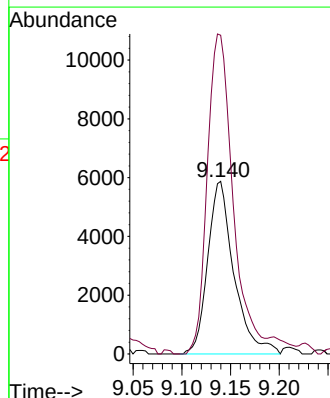
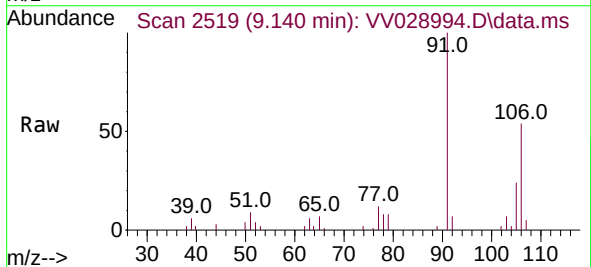
Instrument :
MSVOA_V
ClientSampleId :
COL14

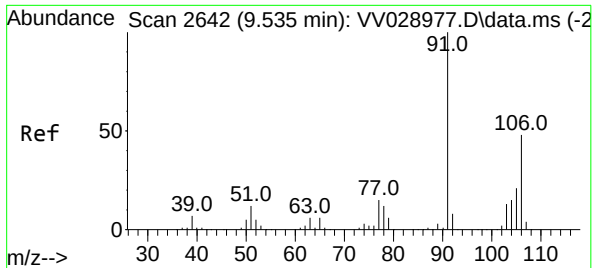
Tgt Ion: 91 Resp: 7101
Ion Ratio Lower Upper
91 100
106 30.9 21.6 40.2



#53
m,p-Xylene
Concen: 0.321 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.010 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion: 106 Resp: 10990
Ion Ratio Lower Upper
106 100
91 184.6 139.1 258.3

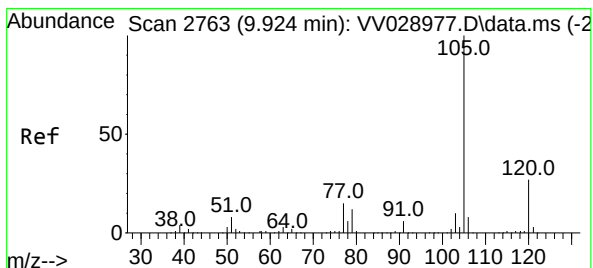
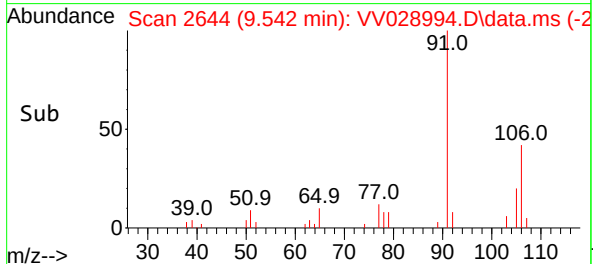
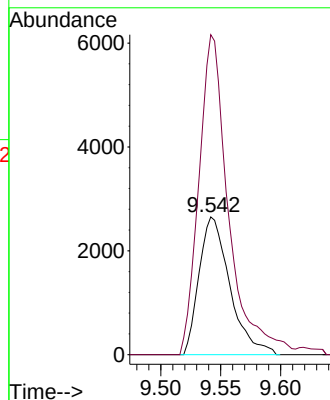
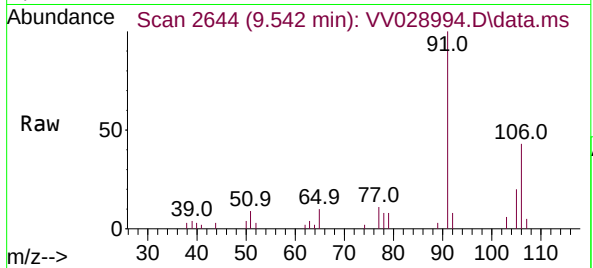




#54
o-Xylene
Concen: 0.146 ug/L
RT: 9.542 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

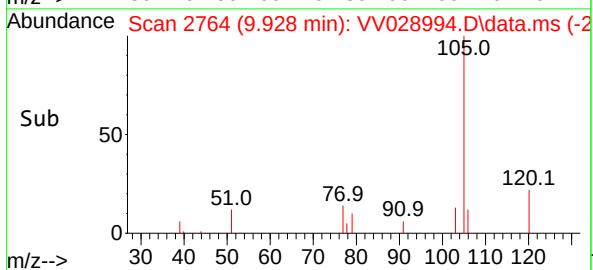
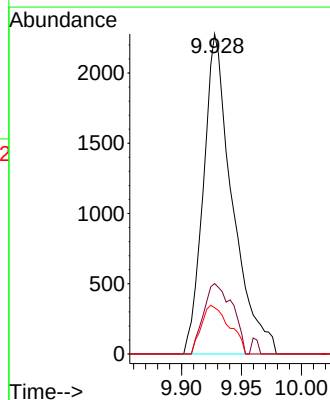
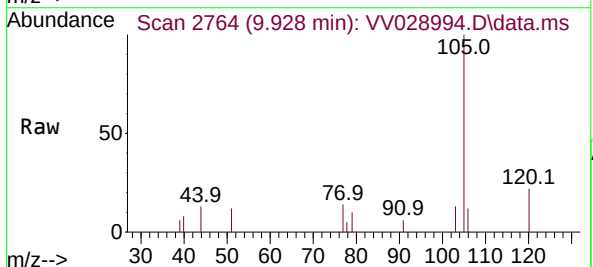
Instrument :
MSVOA_V
ClientSampleId :
COL14

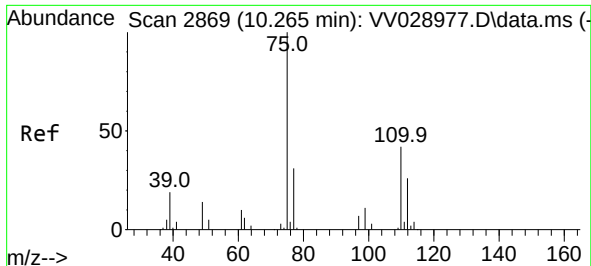
Tgt Ion:106 Resp: 4741
Ion Ratio Lower Upper
106 100
91 232.2 145.7 270.7



#60
Isopropylbenzene
Concen: 0.049 ug/L
RT: 9.928 min Scan# 2764
Delta R.T. 0.003 min
Lab File: VV028994.D
Acq: 15 Nov 2022 17:21

Tgt Ion:105 Resp: 3810
Ion Ratio Lower Upper
105 100
120 22.0 21.3 31.9
77 14.7 11.8 17.8





#61

1,2,3-Trichloropropane

Concen: 1.468 ug/L

RT: 11.239 min Scan# 3172

Delta R.T. 0.974 min

Lab File: VV028994.D

Acq: 15 Nov 2022 17:21

Instrument :

MSVOA_V

ClientSampleId :

COL14

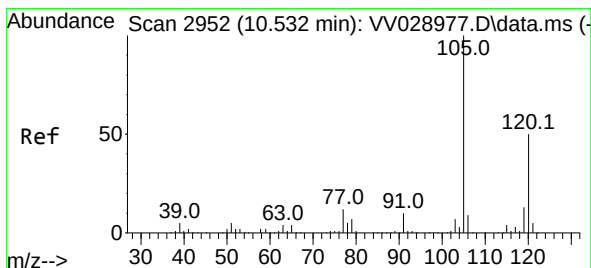
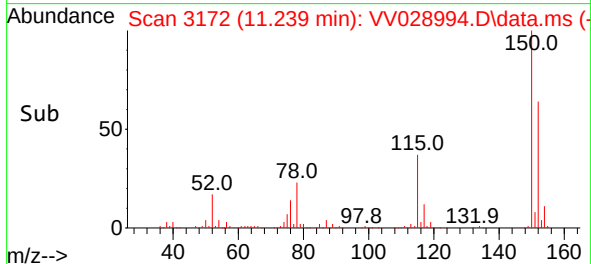
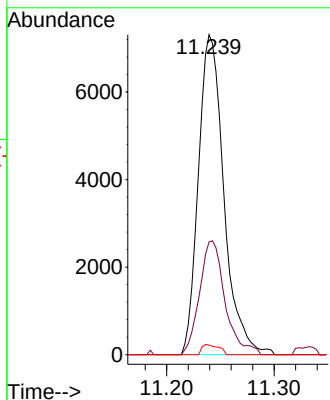
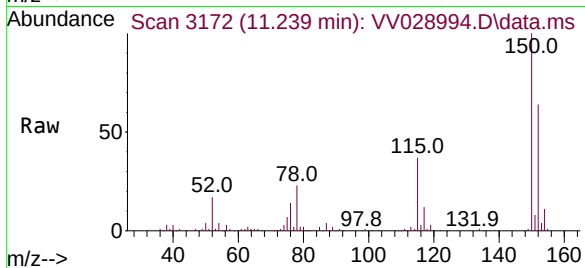
Tgt Ion: 75 Resp: 12039

Ion Ratio Lower Upper

75 100

77 35.6 26.2 39.2

110 2.1 32.6 48.8#



#62

1,3,5-Trimethylbenzene

Concen: 0.067 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.383 min

Lab File: VV028994.D

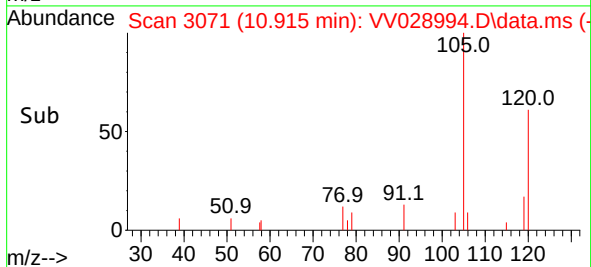
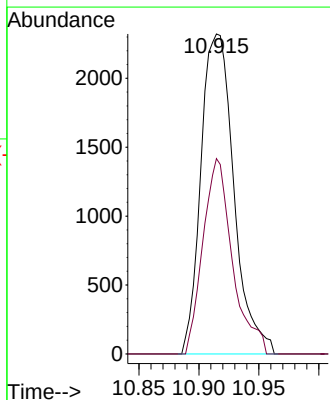
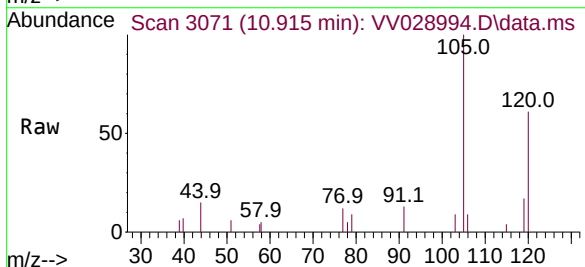
Acq: 15 Nov 2022 17:21

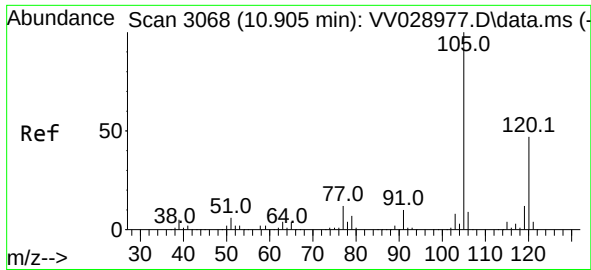
Tgt Ion: 105 Resp: 4430

Ion Ratio Lower Upper

105 100

120 54.7 39.9 59.9





#63
 1,2,4-Trimethylbenzene
 Concen: 0.067 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.010 min
 Lab File: VV028994.D
 Acq: 15 Nov 2022 17:21

Instrument :
 MSVOA_V
 ClientSampleId :
 COL14

Tgt Ion:105 Resp: 4430
 Ion Ratio Lower Upper
 105 100
 120 54.7 37.8 56.8

