

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033314.D
 Acq On : 14 Dec 2023 06:43
 Operator : SY/MD
 Sample : 05770-16
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY86

Quant Time: Dec 14 07:52:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 14 01:07:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	127286	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.802	117	121935	5.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.191	152	65993	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.294	65	35789	4.386	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.800%
7) Chloroethane-d5	1.552	69	28419	4.683	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.600%
11) 1,1-Dichloroethene-d2	2.072	65	15525	4.780	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.600%
20) 2-Butanone-d5	3.921	46	13295	13.768	ug/L	0.13
Spiked Amount	50.000	Range	40 - 130	Recovery	=	27.540%#
24) Chloroform-d	4.278	84	77673	4.564	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.200%
26) 1,2-Dichloroethane-d4	4.960	65	41239	5.576	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.600%
32) Benzene-d6	4.966	84	150912	4.784	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.600%
36) 1,2-Dichloropropane-d6	6.011	67	36199	5.042	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.800%
41) Toluene-d8	7.278	98	142964	4.651	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.000%
43) trans-1,3-Dichloroprop...	7.587	79	14323	4.373	ug/L	0.03
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.400%
46) 2-Hexanone-d5	8.063	63	39079	42.738	ug/L	0.04
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.480%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	22904	4.717	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.400%
66) 1,2-Dichlorobenzene-d4	11.564	152	60423	5.198	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.227	50	925	0.102	ug/L #	79
5) Vinyl chloride	1.298	62	1970	0.214	ug/L #	71
14) Carbon disulfide	2.252	76	10555	0.445	ug/L	96
22) cis-1,2-Dichloroethene	3.844	96	5506	0.604	ug/L	89
30) Cyclohexane	4.587	56	2272	0.211	ug/L #	51
33) Benzene	5.018	78	15016	0.460	ug/L	100
34) Trichloroethene	5.838	95	3669	0.385	ug/L	93
35) Methylcyclohexane	6.059	83	4381	0.311	ug/L #	60
39) cis-1,3-Dichloropropene	6.953	75	1126	0.106	ug/L	93
42) Toluene	7.352	91	33421	0.893	ug/L	95
45) 1,1,2-Trichloroethane	7.741	97	1289	0.255	ug/L #	25
51) Chlorobenzene	8.834	112	14175	0.553	ug/L	94
52) Ethylbenzene	8.969	91	3281	0.078	ug/L	88
53) m,p-Xylene	9.091	106	4684	0.271	ug/L	85
54) o-Xylene	9.493	106	1048	0.064	ug/L #	50
60) Isopropylbenzene	9.876	105	71766	1.641	ug/L	99
61) 1,2,3-Trichloropropane	9.873	75	634	0.181	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.857	105	4966	0.139	ug/L	94
63) 1,2,4-Trimethylbenzene	10.857	105	4966	0.140	ug/L	87

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 14 01:07:25 2023
Response via : Initial Calibration

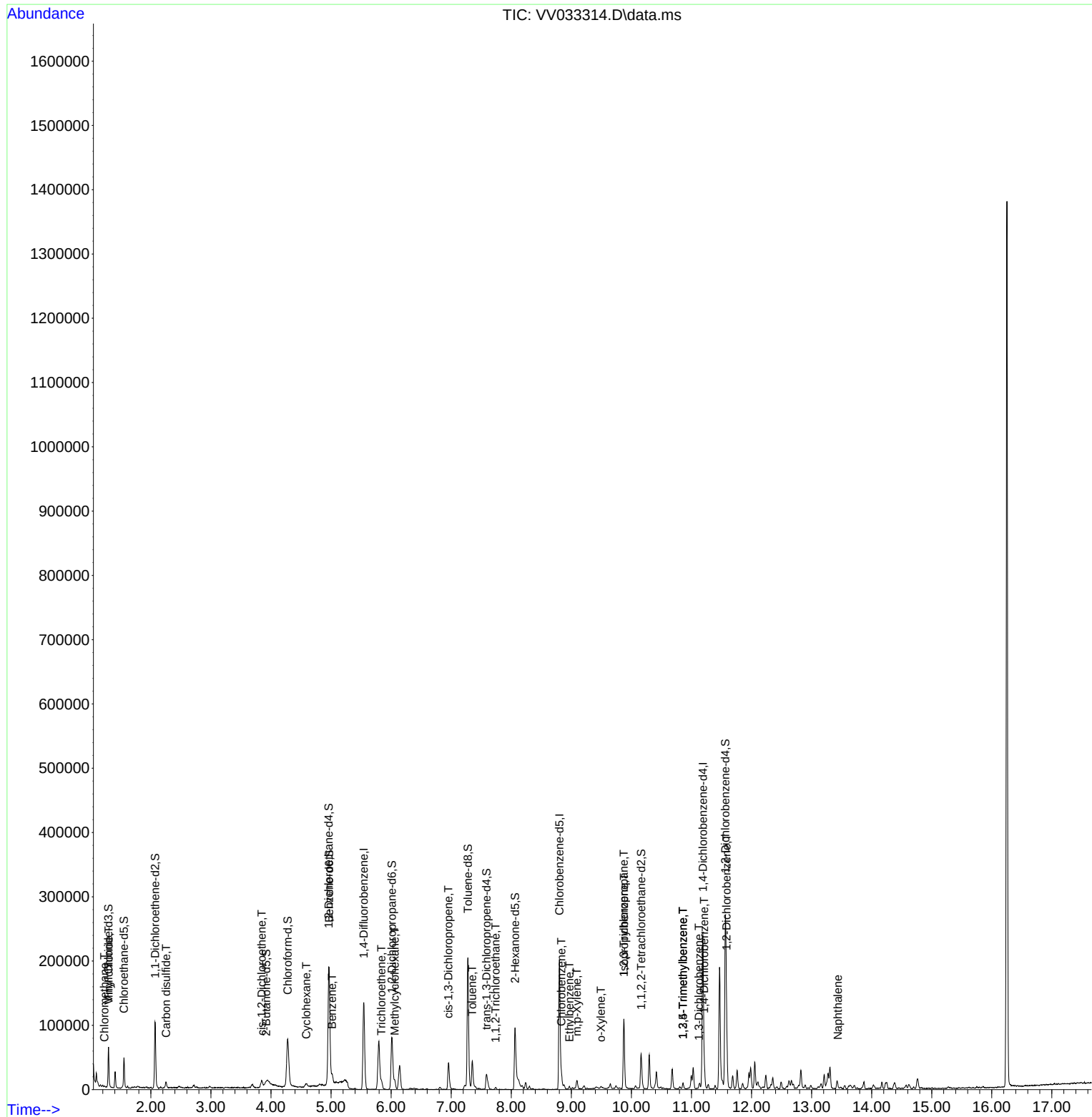
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.124	146	1468	0.066	ug/L	92
65) 1,4-Dichlorobenzene	11.214	146	11626	0.525	ug/L	97
67) 1,2-Dichlorobenzene	11.583	146	37831	1.978	ug/L	96
71) Naphthalene	13.439	128	2372	0.150	ug/L #	49

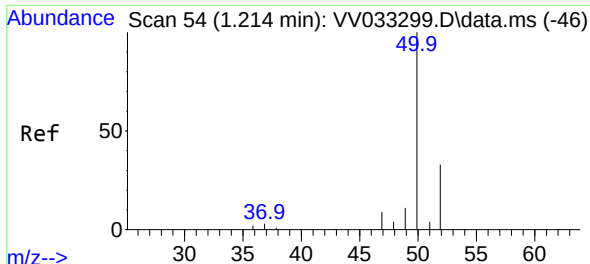
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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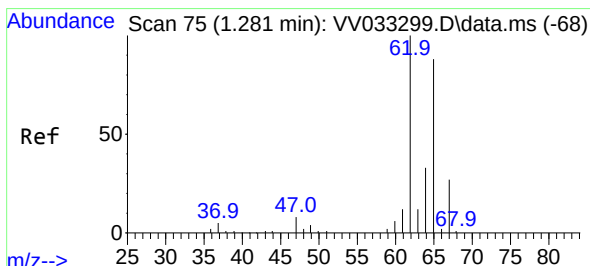
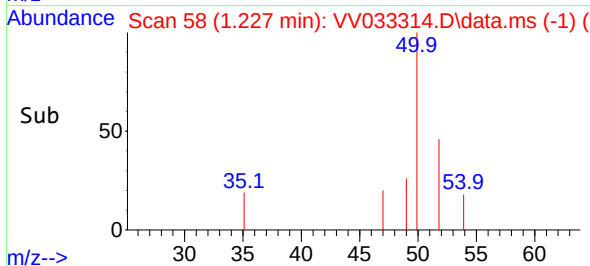
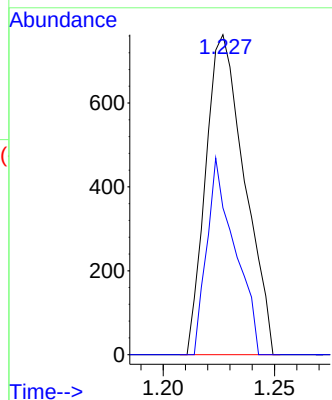
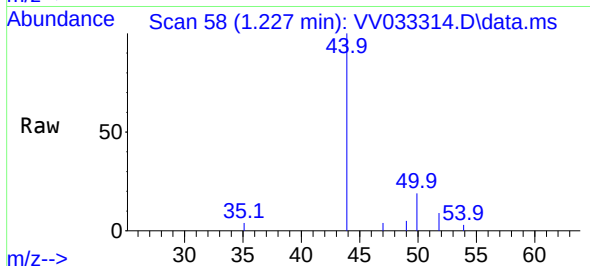




#3
Chloromethane
Concen: 0.102 ug/L
RT: 1.227 min Scan# 51
Delta R.T. 0.013 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

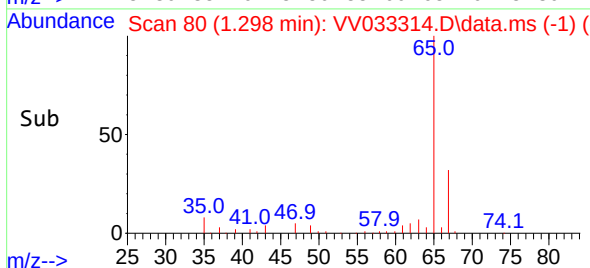
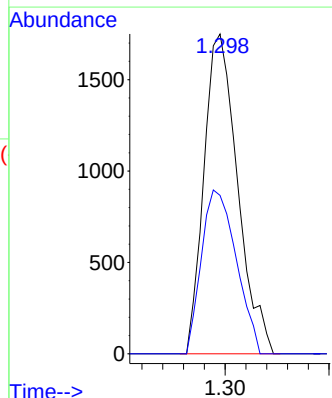
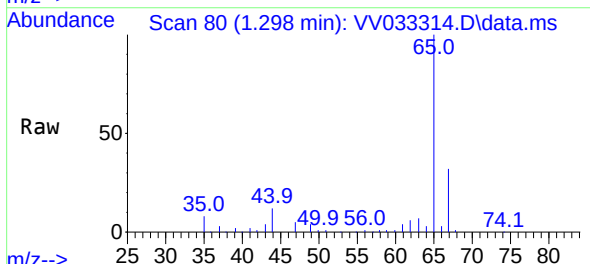
Instrument :
MSVOA_V
ClientSampleId :
E0Y86

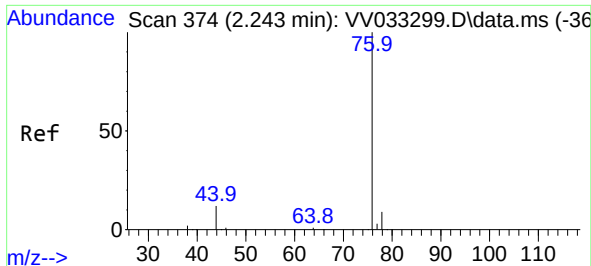
Tgt Ion: 50 Resp: 925
Ion Ratio Lower Upper
50 100
52 45.9 23.8 44.2#



#5
Vinyl chloride
Concen: 0.214 ug/L
RT: 1.298 min Scan# 80
Delta R.T. 0.016 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion: 62 Resp: 1970
Ion Ratio Lower Upper
62 100
64 49.5 23.0 42.8#

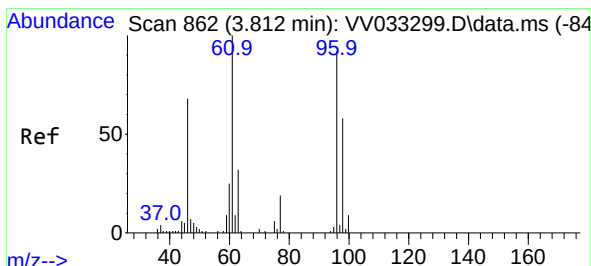
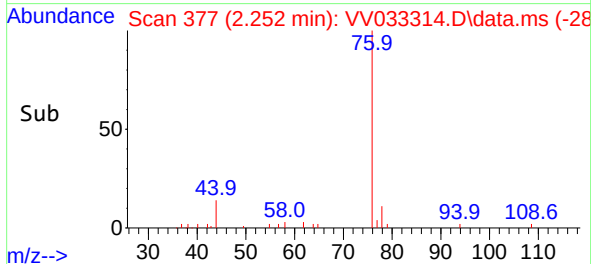
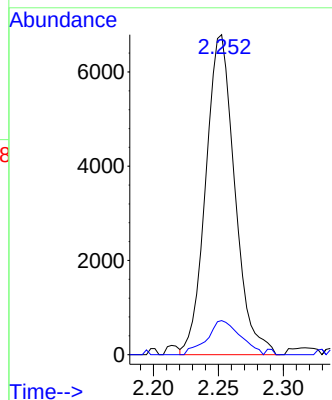
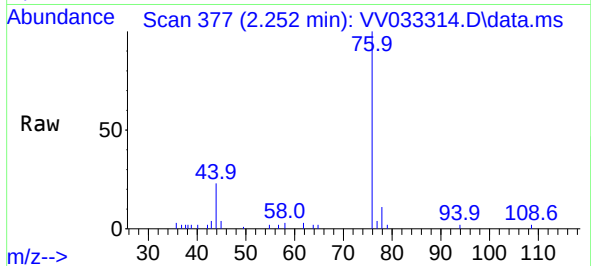




#14
Carbon disulfide
Concen: 0.445 ug/L
RT: 2.252 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

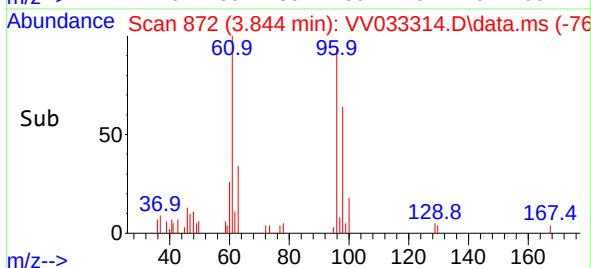
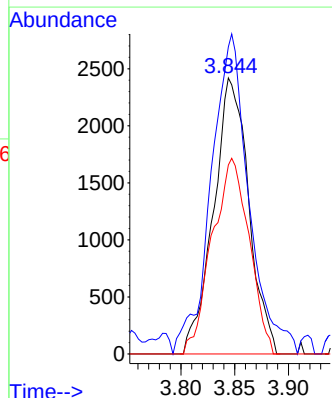
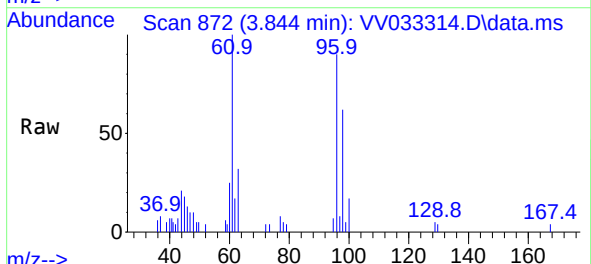
Instrument :
MSVOA_V
ClientSampleId :
E0Y86

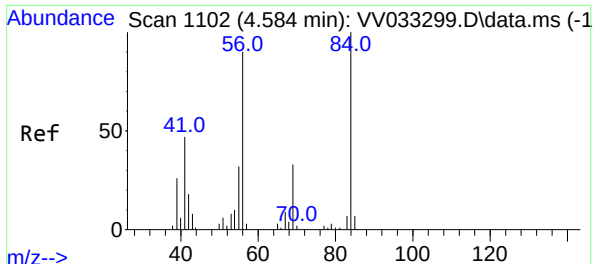
Tgt Ion: 76 Resp: 10555
Ion Ratio Lower Upper
76 100
78 10.7 7.4 11.0



#22
cis-1,2-Dichloroethene
Concen: 0.604 ug/L
RT: 3.844 min Scan# 872
Delta R.T. 0.032 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion: 96 Resp: 5506
Ion Ratio Lower Upper
96 100
61 111.2 69.9 129.9
98 68.5 42.4 78.8





#30

Cyclohexane

Concen: 0.211 ug/L

RT: 4.587 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA_V

ClientSampleId :

E0Y86

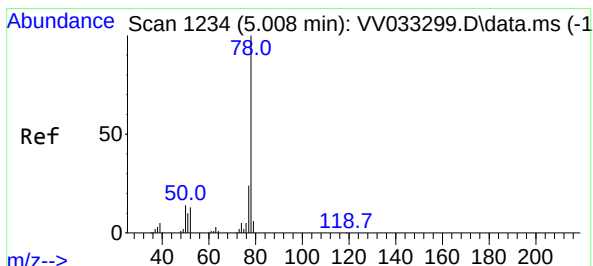
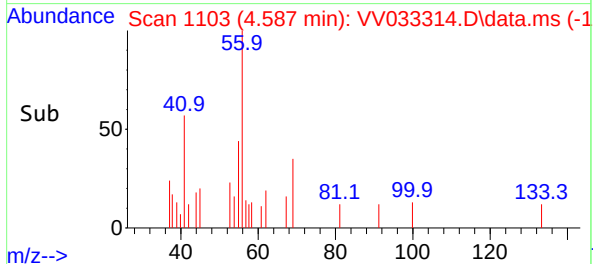
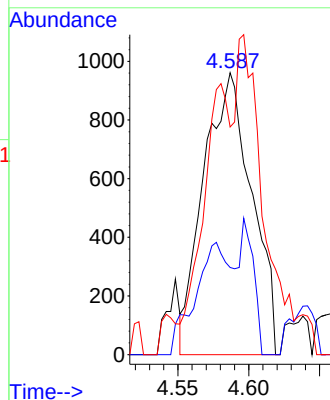
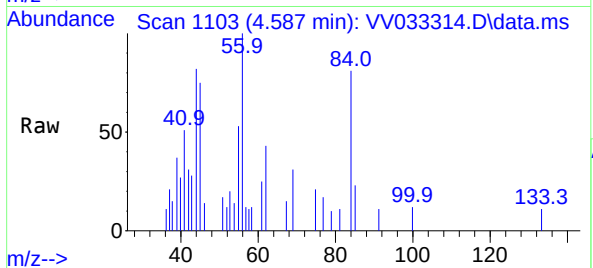
Tgt Ion: 56 Resp: 2272

Ion Ratio Lower Upper

56 100

69 14.3 28.8 43.2#

84 52.0 86.2 129.4#



#33

Benzene

Concen: 0.460 ug/L

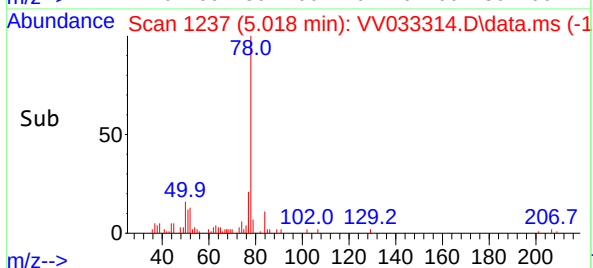
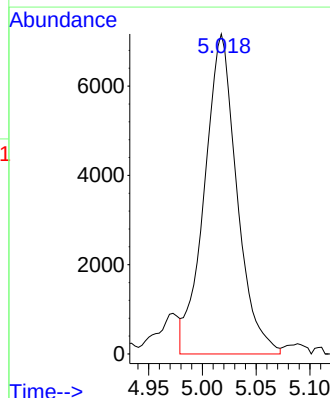
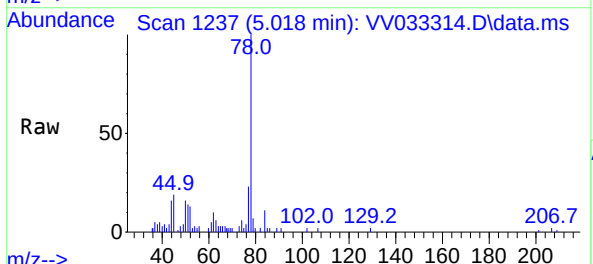
RT: 5.018 min Scan# 1237

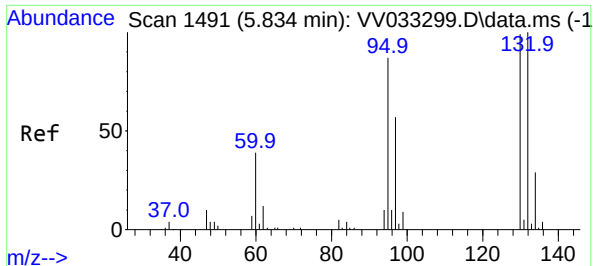
Delta R.T. 0.010 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Tgt Ion: 78 Resp: 15016

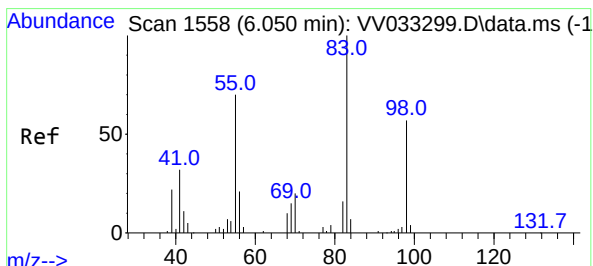
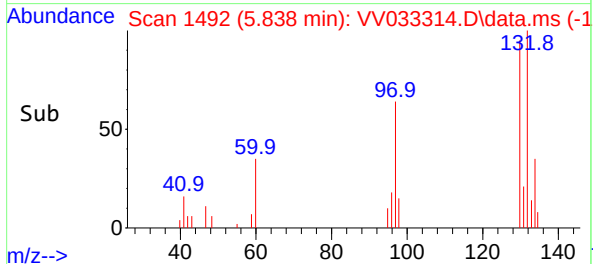
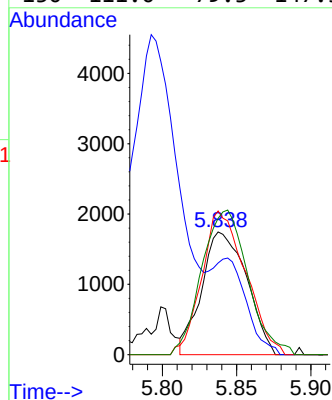
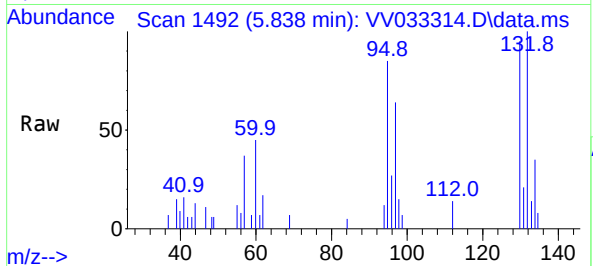




#34
Trichloroethene
Concen: 0.385 ug/L
RT: 5.838 min Scan# 1491
Delta R.T. 0.003 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

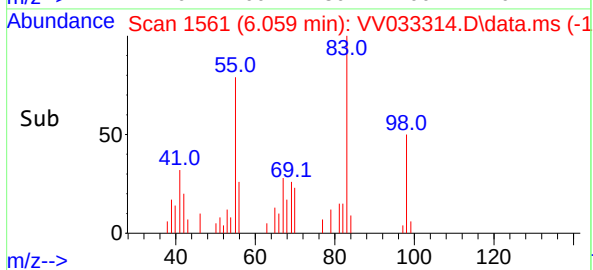
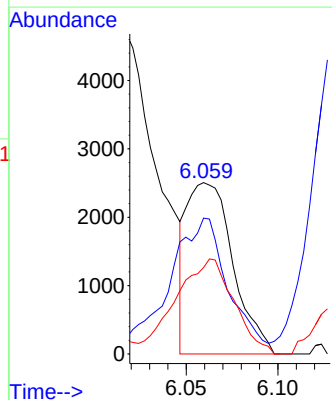
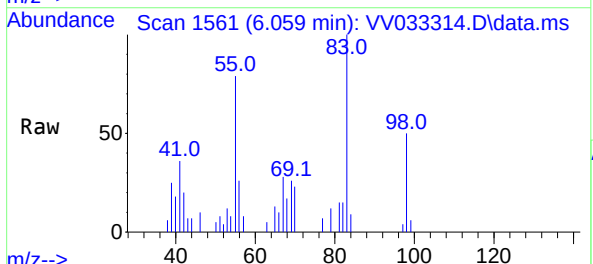
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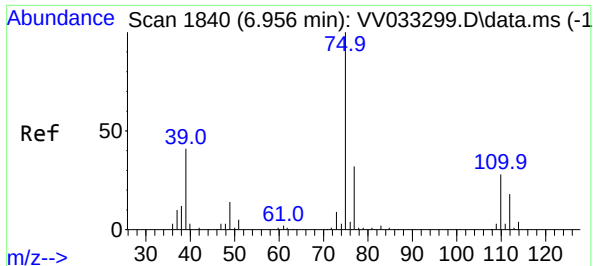
Tgt Ion: 95 Resp: 3669
Ion Ratio Lower Upper
95 100
97 74.7 46.5 86.5
132 117.1 75.1 139.5
130 111.0 79.3 147.3



#35
Methylcyclohexane
Concen: 0.311 ug/L
RT: 6.059 min Scan# 1561
Delta R.T. 0.010 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion: 83 Resp: 4381
Ion Ratio Lower Upper
83 100
55 105.5 50.7 76.1#
98 69.7 42.4 63.6#





#39

cis-1,3-Dichloropropene

Concen: 0.106 ug/L

RT: 6.953 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA_V

ClientSampleId :

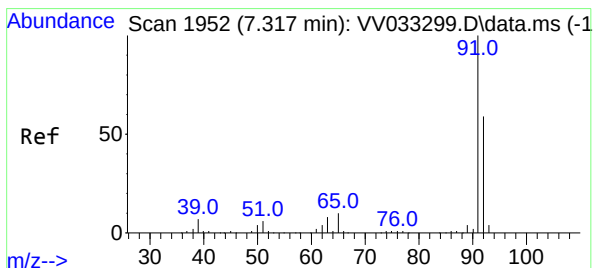
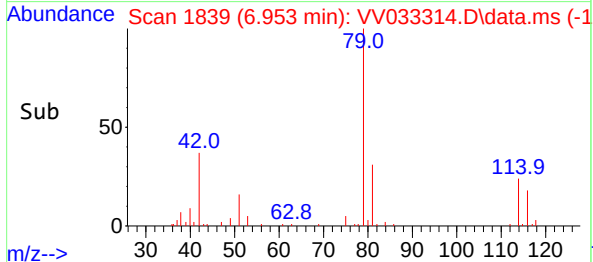
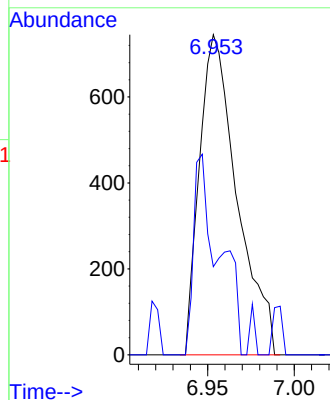
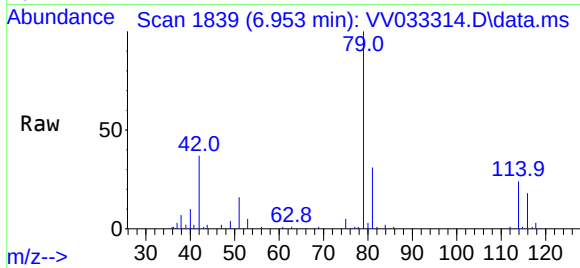
E0Y86

Tgt Ion: 75 Resp: 1126

Ion Ratio Lower Upper

75 100

77 27.5 22.1 41.1



#42

Toluene

Concen: 0.893 ug/L

RT: 7.352 min Scan# 1963

Delta R.T. 0.035 min

Lab File: VV033314.D

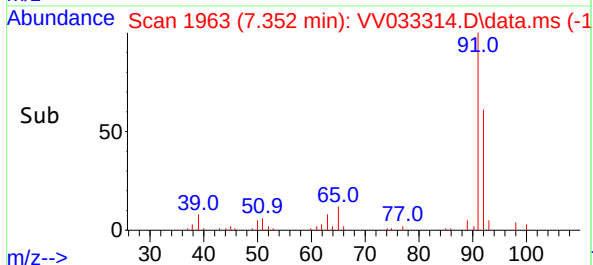
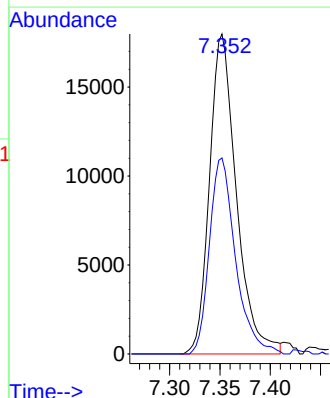
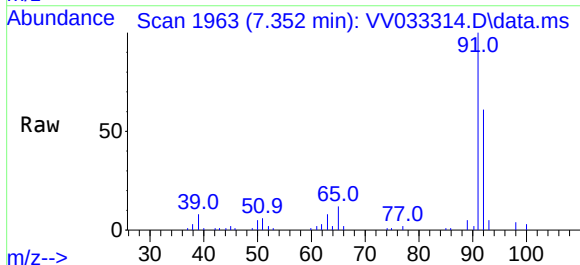
Acq: 14 Dec 2023 06:43

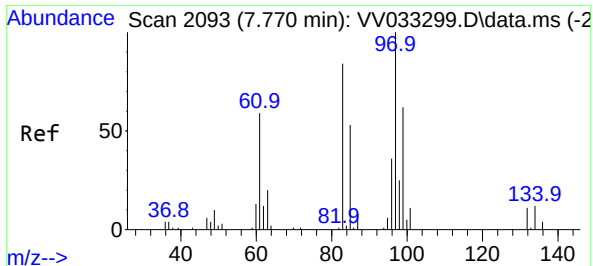
Tgt Ion: 91 Resp: 33421

Ion Ratio Lower Upper

91 100

92 61.3 40.2 74.6





#45

1,1,2-Trichloroethane

Concen: 0.255 ug/L

RT: 7.741 min Scan# 2093

Delta R.T. -0.029 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

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ClientSampleId :

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Tgt Ion: 97 Resp: 1289

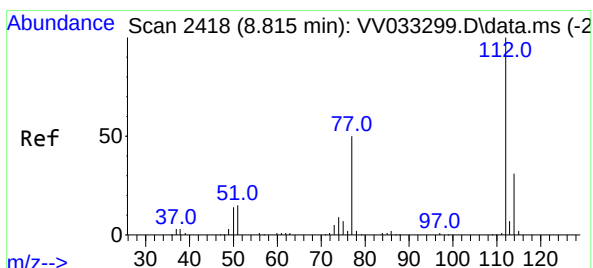
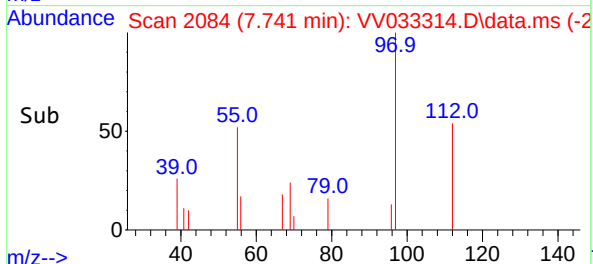
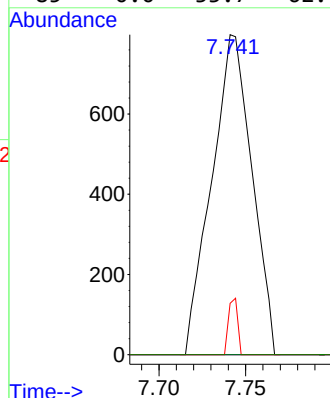
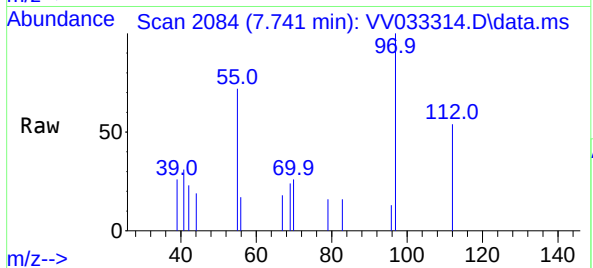
Ion Ratio Lower Upper

97 100

99 0.0 44.5 82.7#

83 16.0 54.7 101.5#

85 0.0 33.7 62.7#



#51

Chlorobenzene

Concen: 0.553 ug/L

RT: 8.834 min Scan# 2424

Delta R.T. 0.019 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

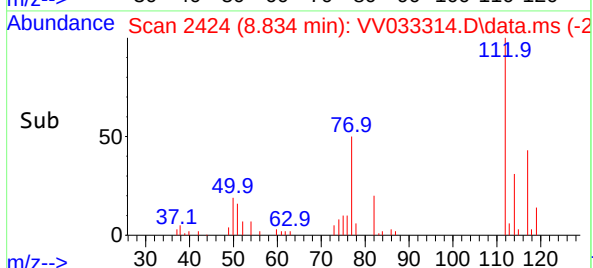
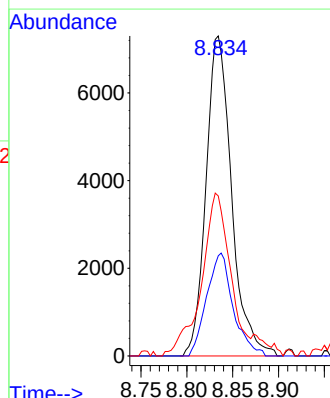
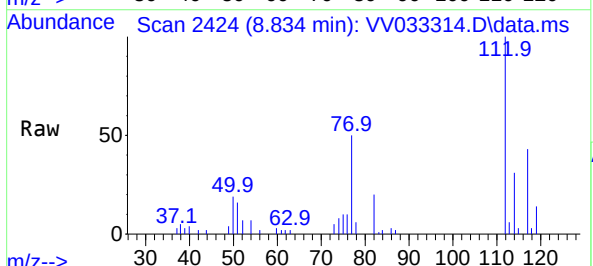
Tgt Ion: 112 Resp: 14175

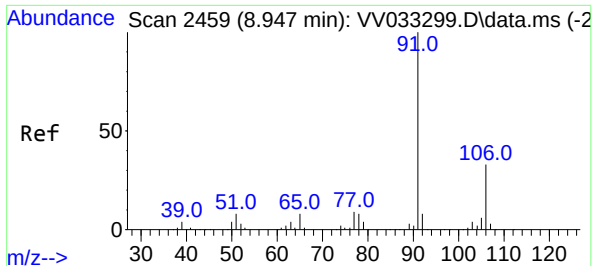
Ion Ratio Lower Upper

112 100

114 29.5 22.8 42.4

77 47.1 41.3 61.9





#52

Ethylbenzene

Concen: 0.078 ug/L

RT: 8.969 min Scan# 24

Delta R.T. 0.023 min

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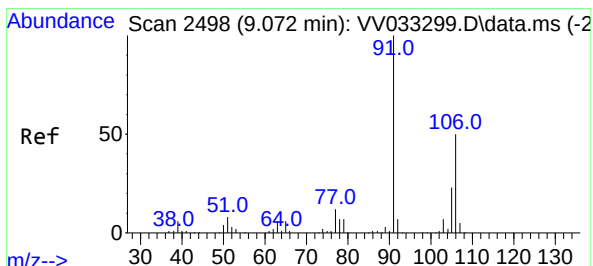
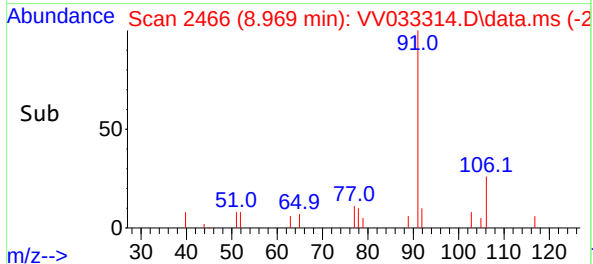
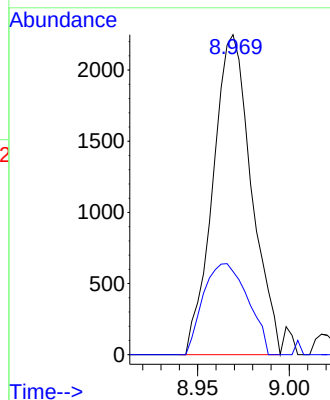
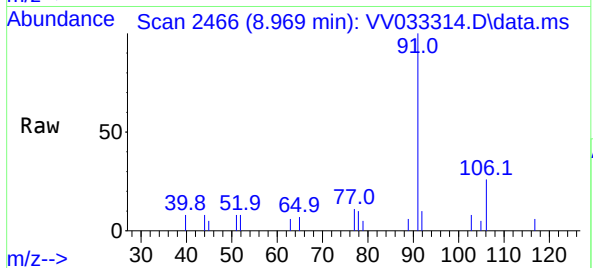
E0Y86

Tgt Ion: 91 Resp: 3281

Ion Ratio Lower Upper

91 100

106 26.0 22.7 42.3



#53

m,p-Xylene

Concen: 0.271 ug/L

RT: 9.091 min Scan# 2504

Delta R.T. 0.019 min

Lab File: VV033314.D

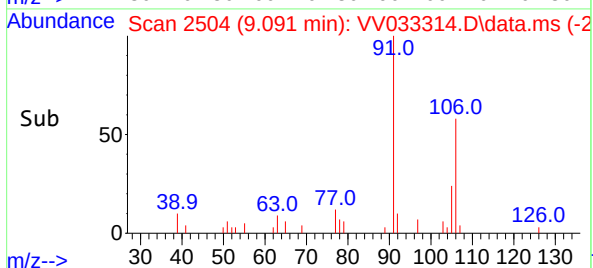
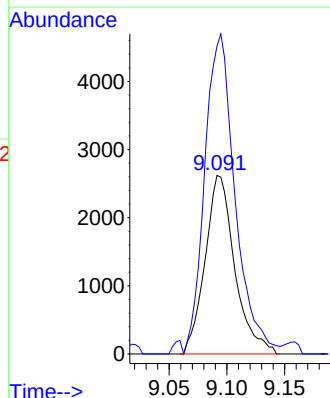
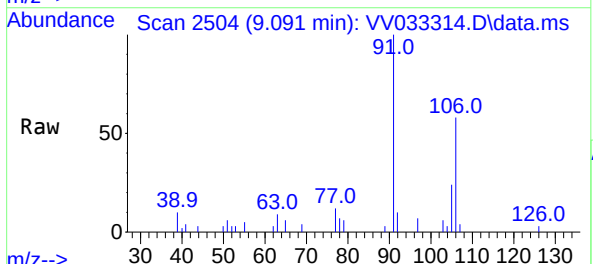
Acq: 14 Dec 2023 06:43

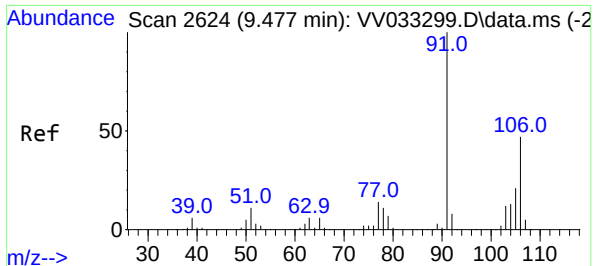
Tgt Ion: 106 Resp: 4684

Ion Ratio Lower Upper

106 100

91 172.5 136.8 254.0





#54

o-Xylene

Concen: 0.064 ug/L

RT: 9.493 min Scan# 2

Delta R.T. 0.016 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA_V

ClientSampleId :

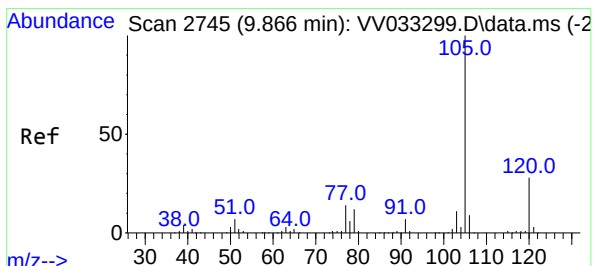
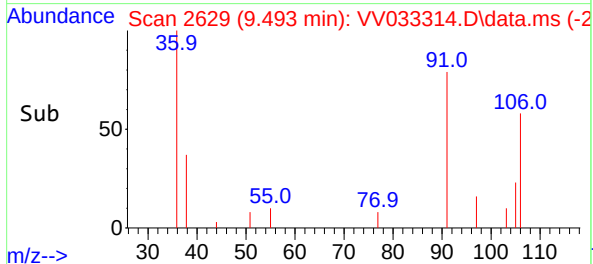
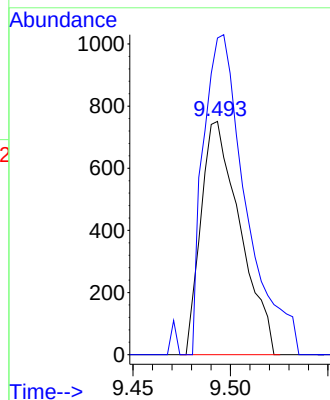
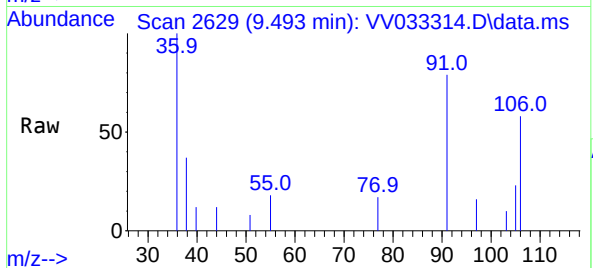
E0Y86

Tgt Ion:106 Resp: 1048

Ion Ratio Lower Upper

106 100

91 135.7 149.9 278.5#



#60

Isopropylbenzene

Concen: 1.641 ug/L

RT: 9.876 min Scan# 2748

Delta R.T. 0.010 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

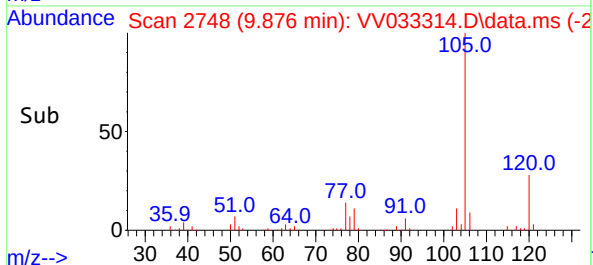
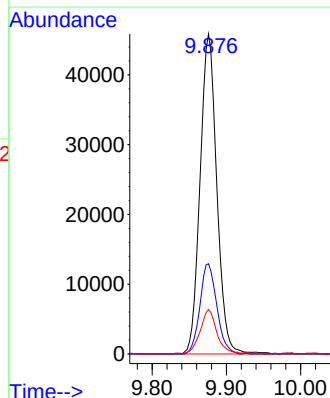
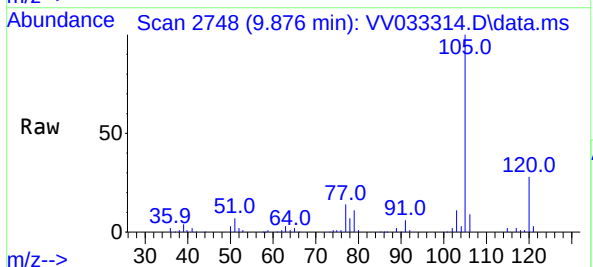
Tgt Ion:105 Resp: 71766

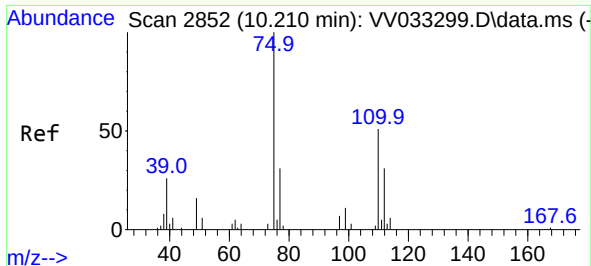
Ion Ratio Lower Upper

105 100

120 28.4 22.2 33.4

77 13.9 11.6 17.4

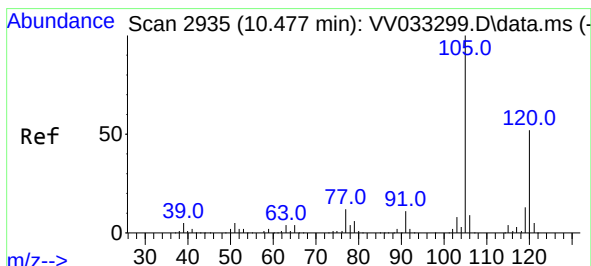
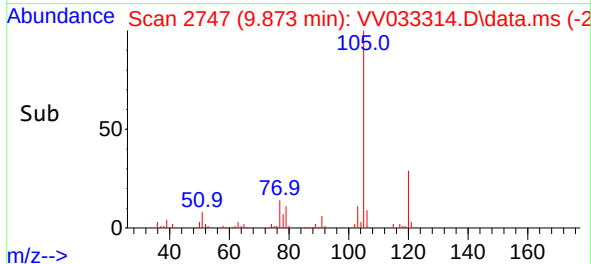
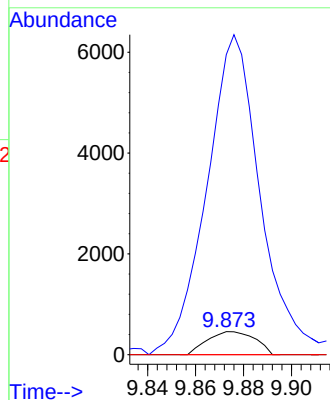
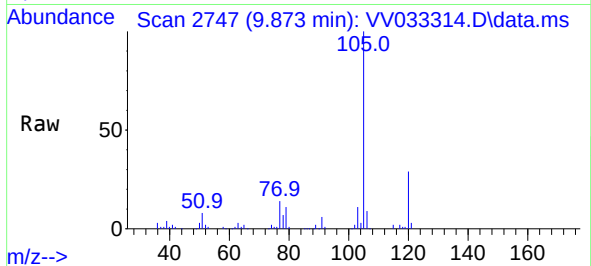




#61
1,2,3-Trichloropropane
Concen: 0.181 ug/L
RT: 9.873 min Scan# 21
Delta R.T. -0.338 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

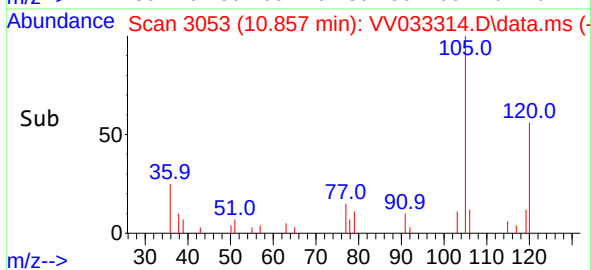
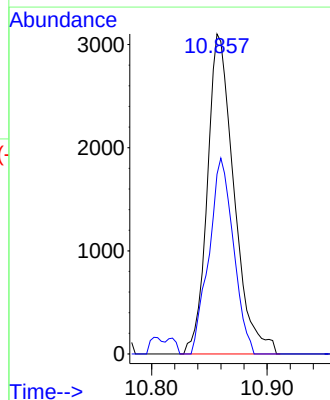
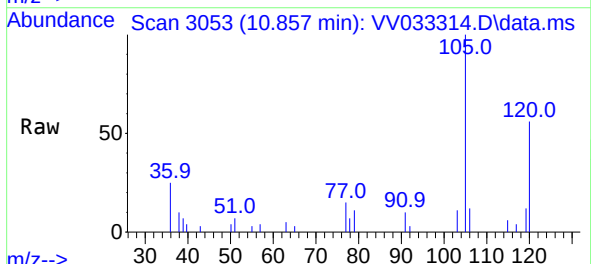
Instrument :
MSVOA_V
ClientSampleId :
E0Y86

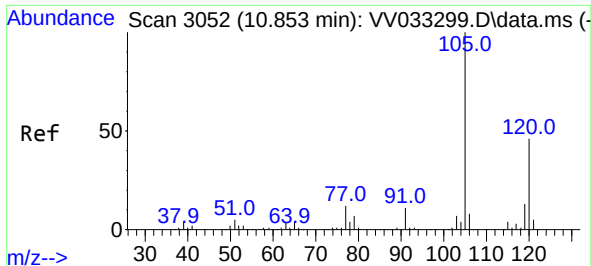
Tgt Ion: 75 Resp: 634
Ion Ratio Lower Upper
75 100
77 1569.6 27.4 41.2#
110 0.0 39.4 59.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.139 ug/L
RT: 10.857 min Scan# 3053
Delta R.T. 0.379 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion: 105 Resp: 4966
Ion Ratio Lower Upper
105 100
120 56.1 41.7 62.5

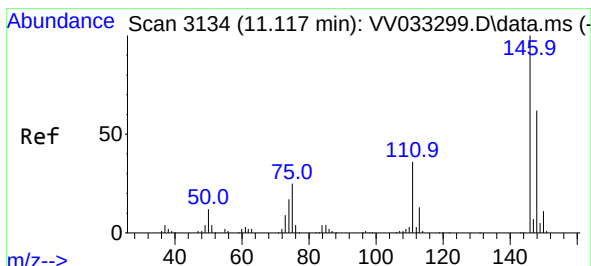
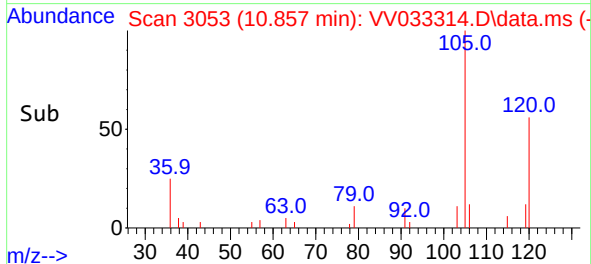
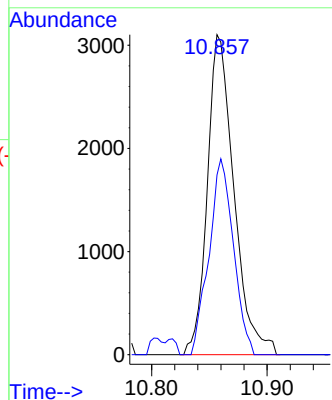
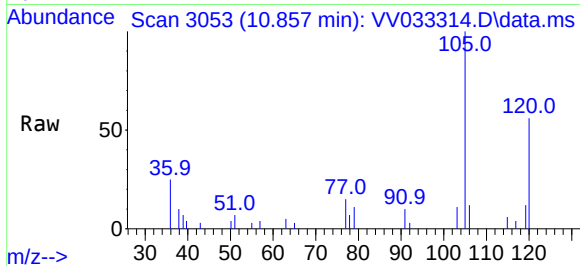




#63
1,2,4-Trimethylbenzene
Concen: 0.140 ug/L
RT: 10.857 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

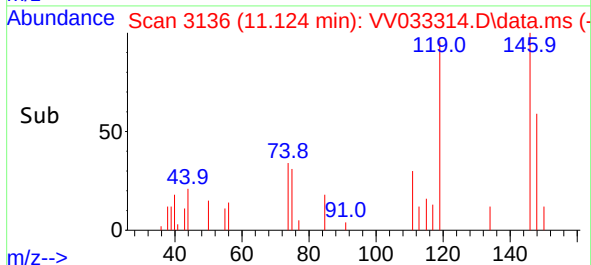
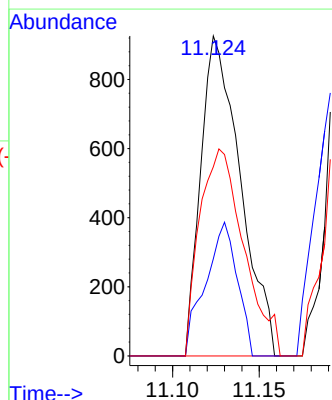
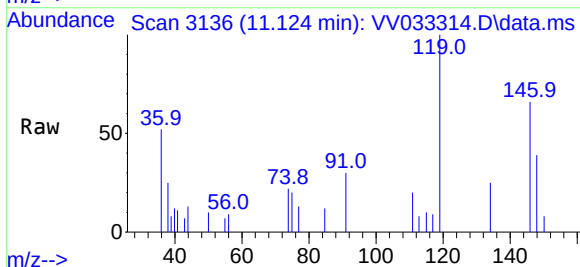
Instrument :
MSVOA_V
ClientSampleId :
E0Y86

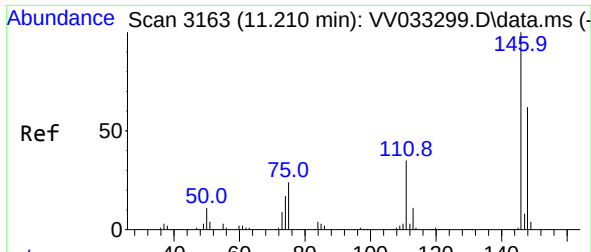
Tgt Ion:105 Resp: 4966
Ion Ratio Lower Upper
105 100
120 56.1 38.1 57.1



#64
1,3-Dichlorobenzene
Concen: 0.066 ug/L
RT: 11.124 min Scan# 3136
Delta R.T. 0.006 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion:146 Resp: 1468
Ion Ratio Lower Upper
146 100
111 30.3 26.0 48.2
148 59.1 44.5 82.7

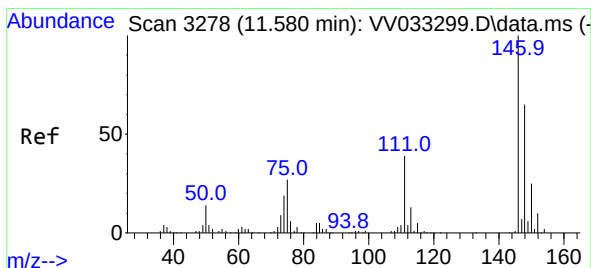
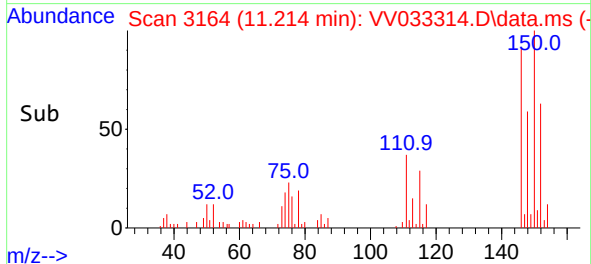
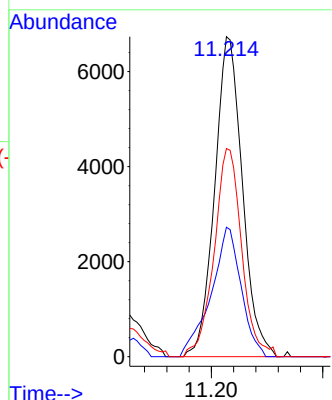
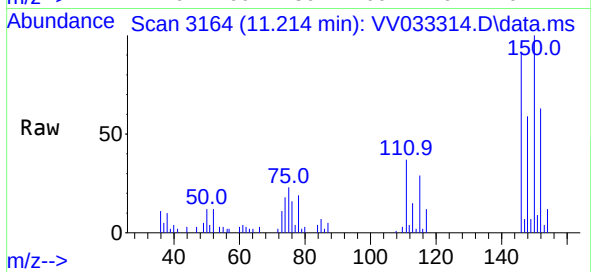




#65
1,4-Dichlorobenzene
Concen: 0.525 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

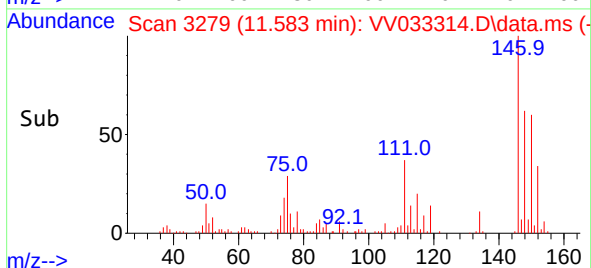
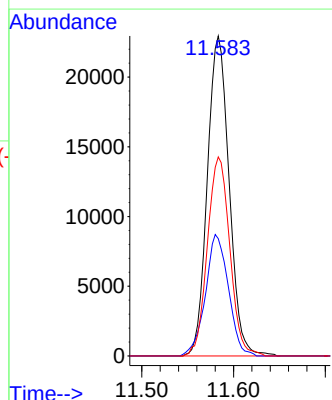
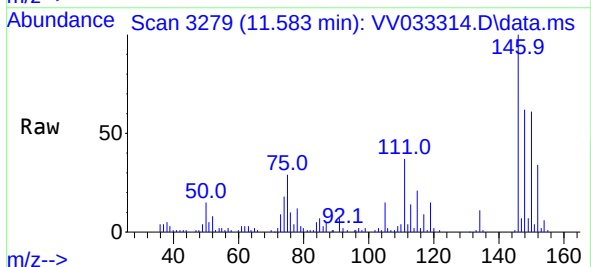
Instrument :
MSVOA_V
ClientSampleId :
E0Y86

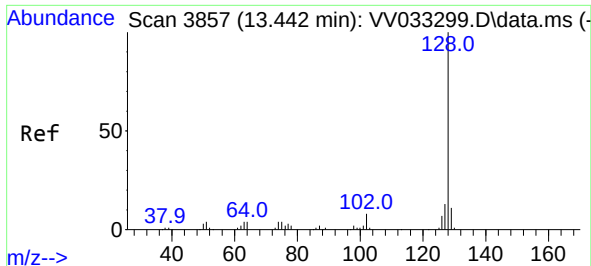
Tgt Ion:146 Resp: 11626
Ion Ratio Lower Upper
146 100
111 40.5 25.6 47.4
148 65.1 44.7 82.9



#67
1,2-Dichlorobenzene
Concen: 1.978 ug/L
RT: 11.583 min Scan# 3279
Delta R.T. 0.003 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Tgt Ion:146 Resp: 37831
Ion Ratio Lower Upper
146 100
111 36.6 31.0 46.4
148 62.2 52.6 79.0





#71
Naphthalene
Concen: 0.150 ug/L
RT: 13.439 min Scan# 3856
Delta R.T. -0.003 min
Lab File: VV033314.D
Acq: 14 Dec 2023 06:43

Instrument :
MSVOA_V
ClientSampleId :
E0Y86

Tgt Ion:128 Resp: 2372
Ion Ratio Lower Upper
128 100
129 50.0 8.8 13.2#
127 10.0 10.1 15.1#

