

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV062724\
 Data File : VV036308.D
 Acq On : 27 Jun 2024 15:00
 Operator : SY/MD
 Sample : P2962-15
 Misc : 5.07g/10.0mL/MSVOA_V/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 28 02:29:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 28 00:39:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	390799	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	382742	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	153653	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	125793	18.953	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.800%
7) Chloroethane-d5	1.526	69	114873	21.669	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.680%
11) 1,1-Dichloroethene-d2	2.050	65	62254	19.953	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.800%
21) 2-Butanone-d5	3.831	46	59663	38.733	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.460%
24) Chloroform-d	4.243	84	257642	22.335	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.320%
26) 1,2-Dichloroethane-d4	4.937	65	158970	25.841	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.360%
32) Benzene-d6	4.953	84	515447	23.857	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.440%
36) 1,2-Dichloropropane-d6	5.986	67	168423	25.916	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.680%
41) Toluene-d8	7.239	98	497027	25.514	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.040%
43) trans-1,3-Dichloroprop...	7.551	79	87600	30.185	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	120.720%
47) 2-Hexanone-d5	8.027	63	71549	68.971	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.940%#
56) 1,1,2,2-Tetrachloroeth...	10.153	84	205187	38.517	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	154.080%#
66) 1,2-Dichlorobenzene-d4	11.558	152	158906	28.379	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	113.520%
Target Compounds						
					Qvalue	
13) Acetone	2.163	43	42175	20.266	ug/L #	84
16) Methylene chloride	2.439	84	53519	6.956	ug/L	98
25) Chloroform	4.272	83	6988	0.603	ug/L #	60
29) Cyclohexane	4.568	56	57032	6.994	ug/L #	38
35) Methylcyclohexane	6.043	83	209607	21.025	ug/L #	85
40) 4-Methyl-2-pentanone	7.185	43	53772	16.468	ug/L #	47
45) 1,1,2-Trichloroethane	7.712	97	207784	40.604	ug/L #	19
46) Tetrachloroethene	7.908	164	6584	1.266	ug/L	93
52) Ethylbenzene	8.953	91	9199	0.360	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.172	83	103140	22.519	ug/L #	41
60) Isopropylbenzene	9.866	105	212276	11.429	ug/L	99
62) 1,3,5-Trimethylbenzene	10.474	105	213557	16.066	ug/L	99
63) 1,2,4-Trimethylbenzene	10.850	105	516715	35.772	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.352	75	11701	15.041	ug/L #	5
70) 1,2,4-trichlorobenzene	13.249	180	2207	0.380	ug/L #	41
71) Naphthalene	13.429	128	196958	19.008	ug/L #	32
72) 1,2,3-Trichlorobenzene	13.705	180	32383	5.926	ug/L #	1

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Quant Time: Jun 28 02:29:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 28 00:39:40 2024
Response via : Initial Calibration

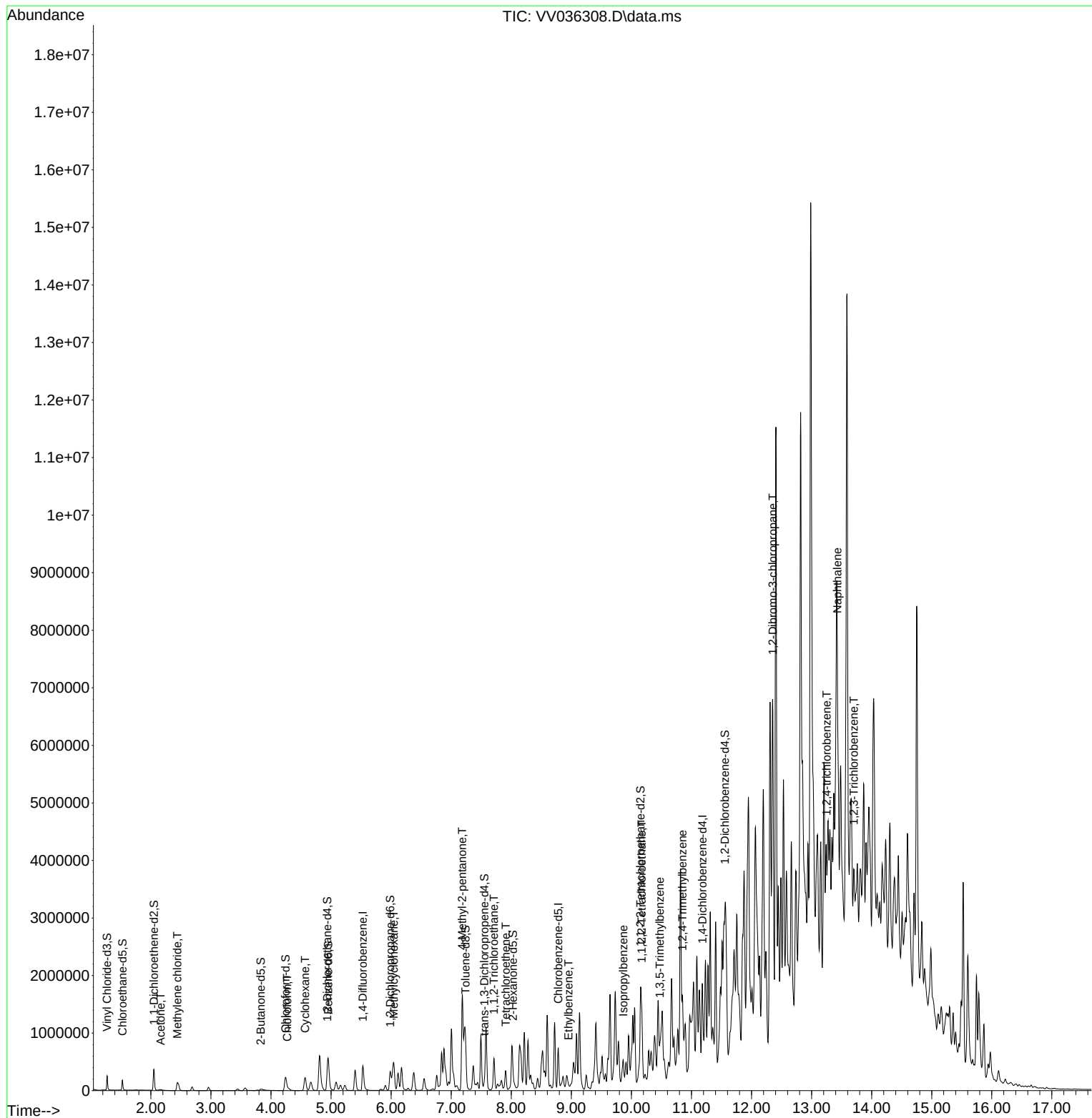
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

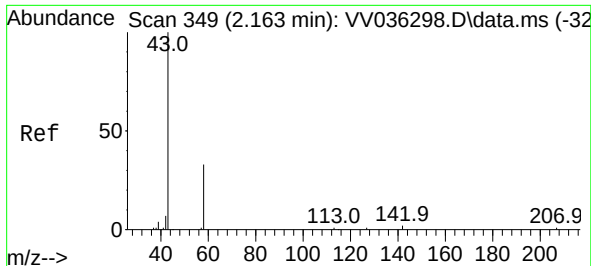
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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#13

Acetone

Concen: 20.266 ug/L

RT: 2.163 min Scan# 349

Delta R.T. -0.000 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

Instrument :

MSVOA_V

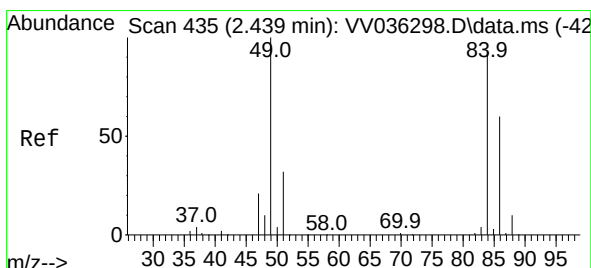
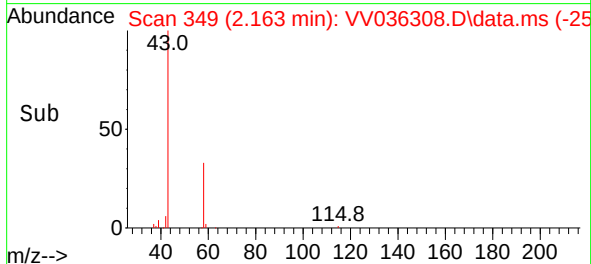
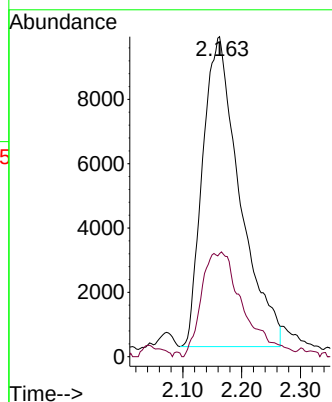
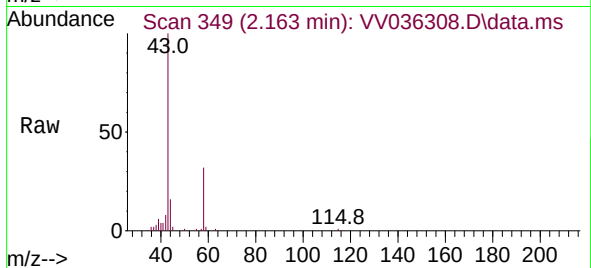
ClientSampleId :

Tgt Ion: 43 Resp: 42175

Ion Ratio Lower Upper

43 100

58 15.2 0.0 0.6#



#16

Methylene chloride

Concen: 6.956 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.000 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

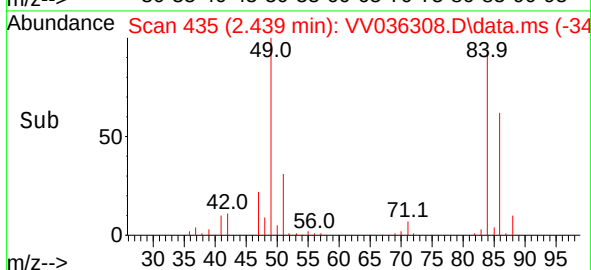
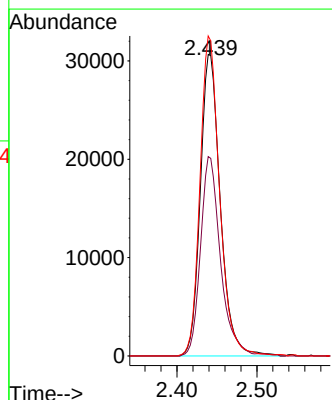
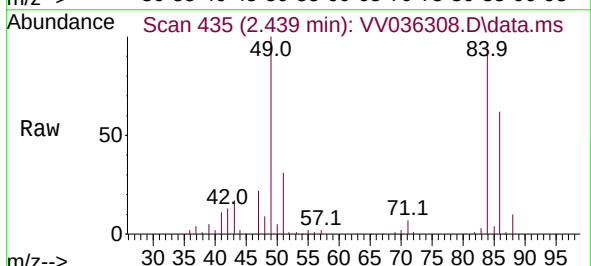
Tgt Ion: 84 Resp: 53519

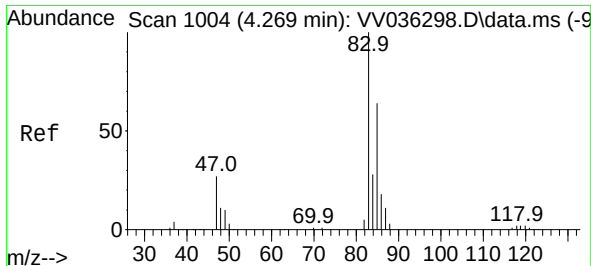
Ion Ratio Lower Upper

84 100

86 66.1 45.6 84.8

49 106.2 75.7 140.5





#25

Chloroform

Concen: 0.603 ug/L

RT: 4.272 min Scan# 1005

Delta R.T. 0.003 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

Instrument :

MSVOA_V

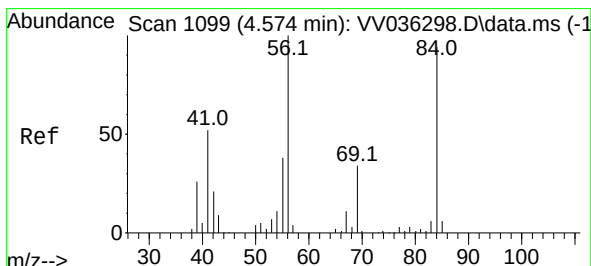
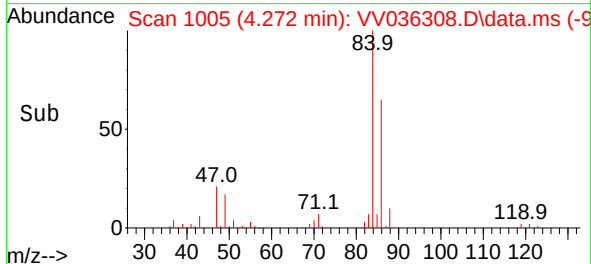
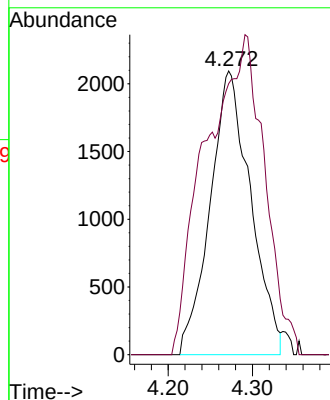
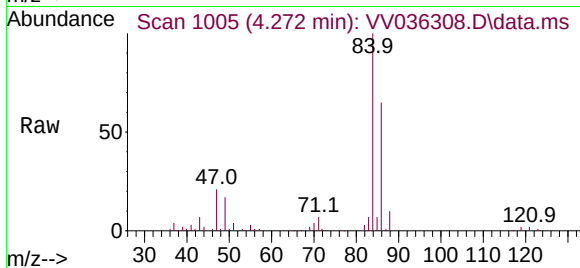
ClientSampleId :

Tgt Ion: 83 Resp: 6988

Ion Ratio Lower Upper

83 100

85 95.5 45.0 83.6#



#29

Cyclohexane

Concen: 6.994 ug/L

RT: 4.568 min Scan# 1097

Delta R.T. -0.007 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

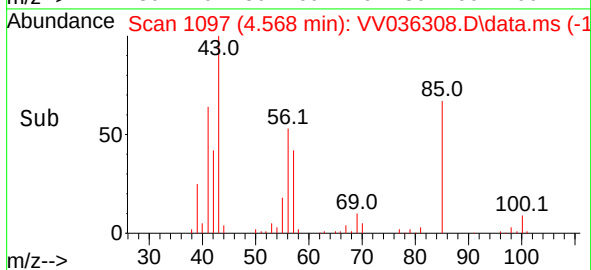
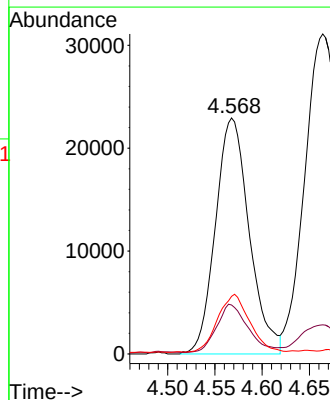
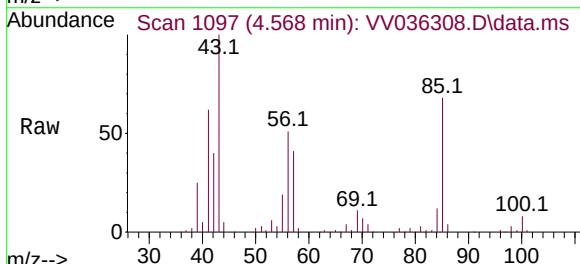
Tgt Ion: 56 Resp: 57032

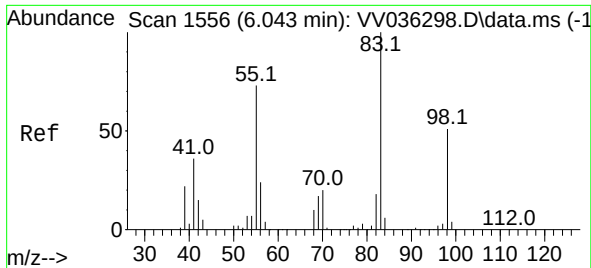
Ion Ratio Lower Upper

56 100

69 18.9 26.0 39.0#

84 23.2 77.4 116.0#





#35

Methylcyclohexane

Concen: 21.025 ug/L

RT: 6.043 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

Instrument :

MSVOA_V

ClientSampleId :

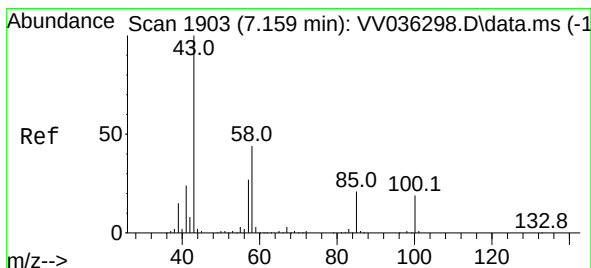
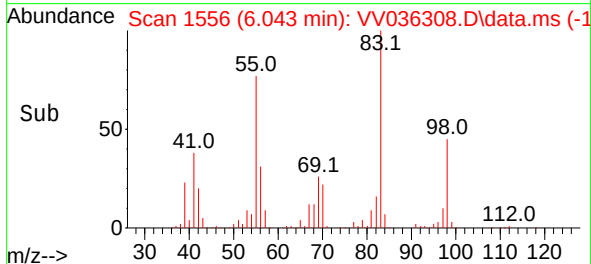
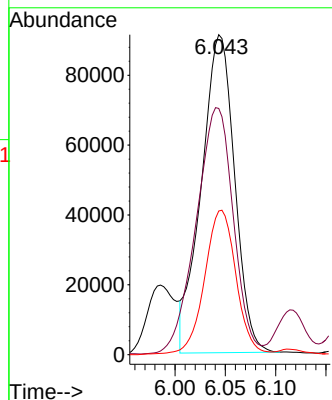
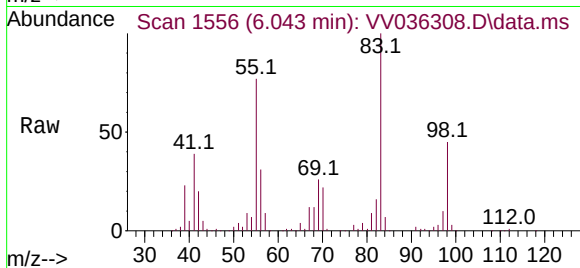
Tgt Ion: 83 Resp: 209607

Ion Ratio Lower Upper

83 100

55 86.7 56.0 84.0#

98 43.1 39.0 58.6



#40

4-Methyl-2-pentanone

Concen: 16.468 ug/L

RT: 7.185 min Scan# 1911

Delta R.T. 0.026 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

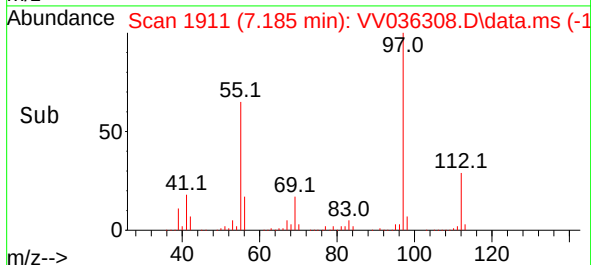
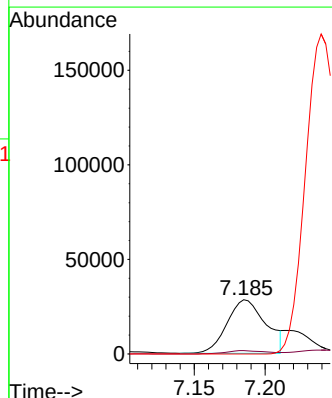
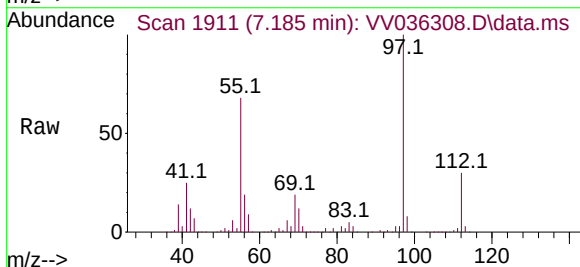
Tgt Ion: 43 Resp: 53772

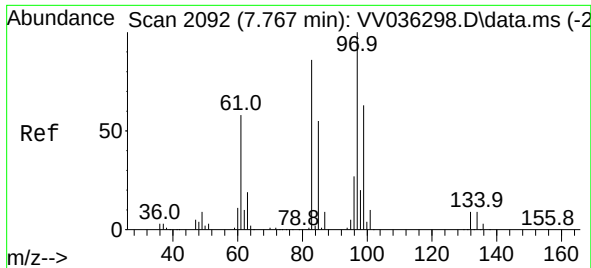
Ion Ratio Lower Upper

43 100

58 6.4 34.8 52.2#

100 0.0 14.6 21.8#



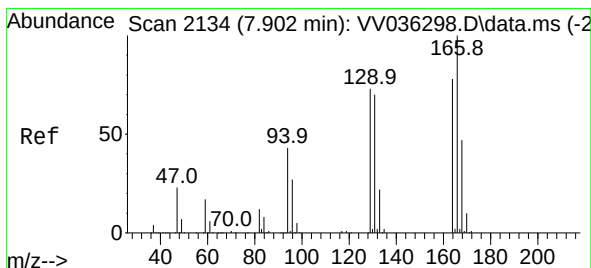
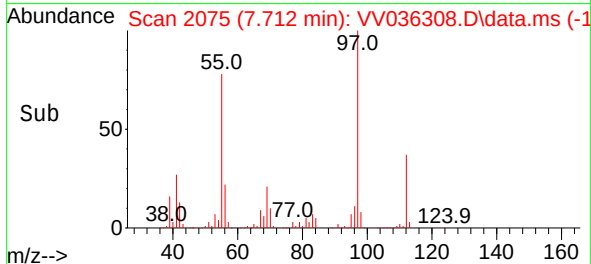
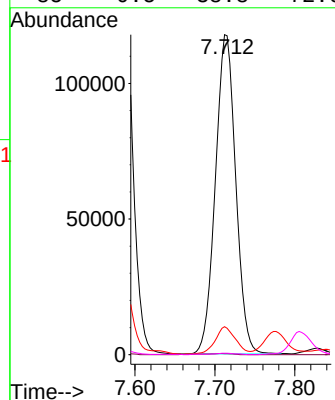
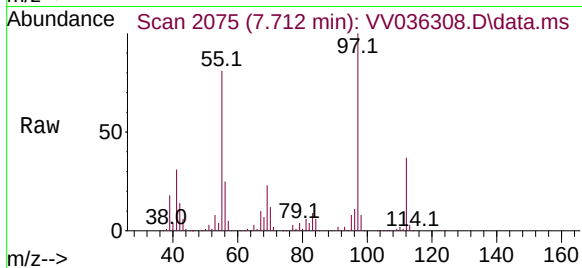


#45
1,1,2-Trichloroethane
Concen: 40.604 ug/L
RT: 7.712 min Scan# 2092
Delta R.T. -0.055 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 97 Resp: 207784

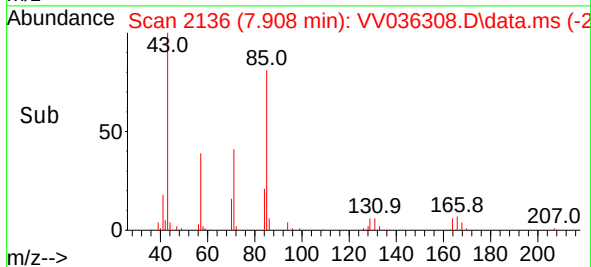
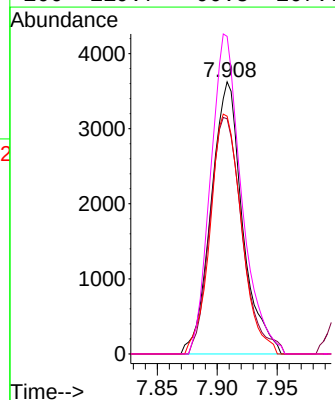
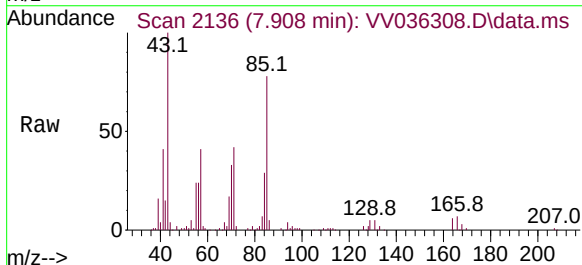
Ion	Ratio	Lower	Upper
97	100		
99	0.3	43.8	81.3#
83	8.8	60.6	112.6#
85	0.5	38.8	72.0#

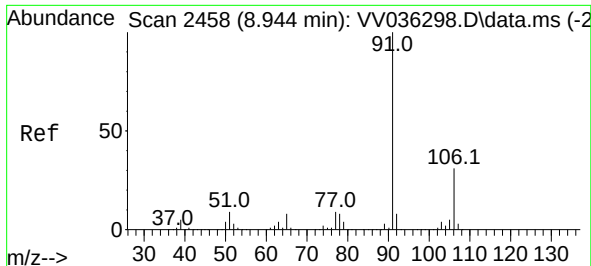


#46
Tetrachloroethene
Concen: 1.266 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.006 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

Tgt Ion: 164 Resp: 6584

Ion	Ratio	Lower	Upper
164	100		
129	86.4	65.9	122.5
131	87.3	63.3	117.7
166	119.7	90.3	167.7

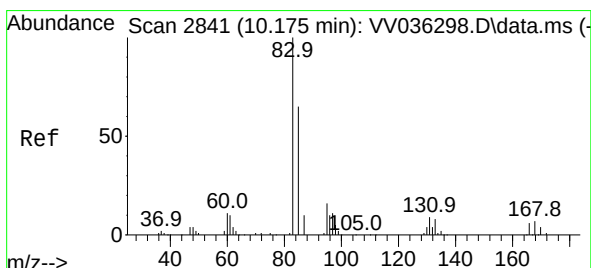
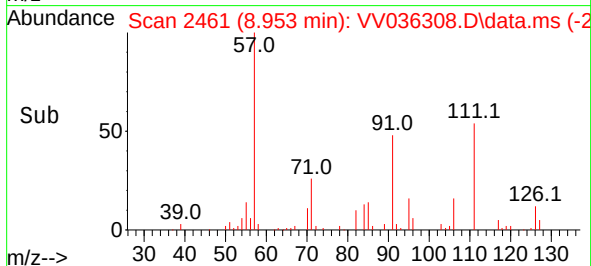
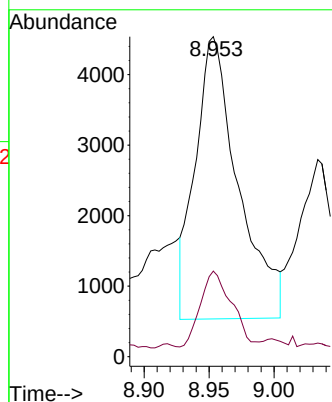
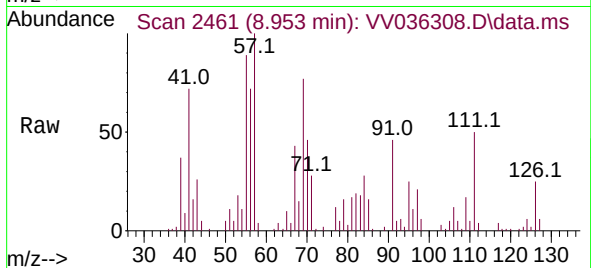




#52
Ethylbenzene
Concen: 0.360 ug/L
RT: 8.953 min Scan# 2458
Delta R.T. 0.010 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

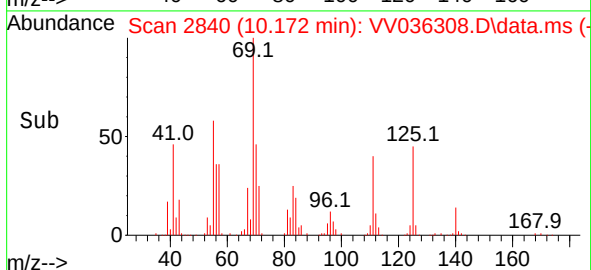
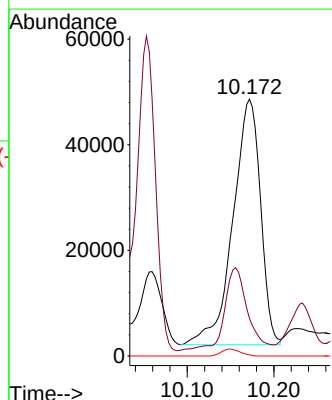
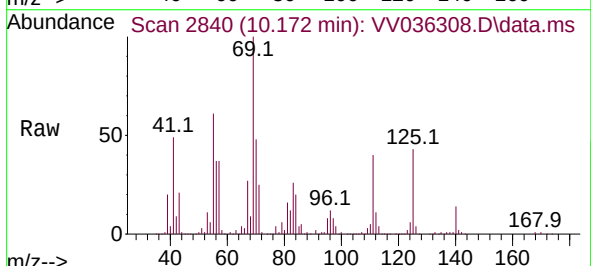
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MSVOA_V
ClientSampleId :

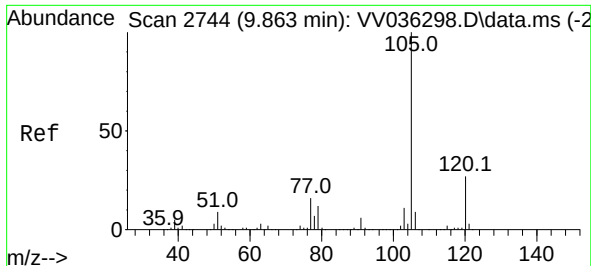
Tgt Ion: 91 Resp: 9199
Ion Ratio Lower Upper
91 100
106 26.7 21.8 40.4



#57
1,1,2,2-Tetrachloroethane
Concen: 22.519 ug/L
RT: 10.172 min Scan# 2840
Delta R.T. -0.003 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

Tgt Ion: 83 Resp: 103140
Ion Ratio Lower Upper
83 100
85 14.6 45.7 84.9#
131 0.4 7.8 11.6#

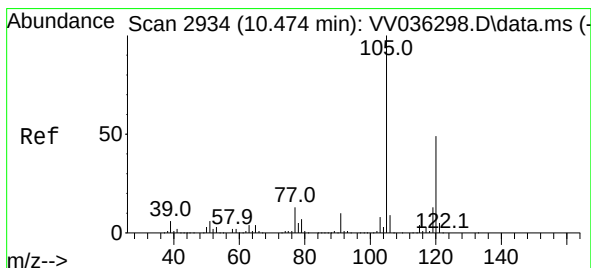
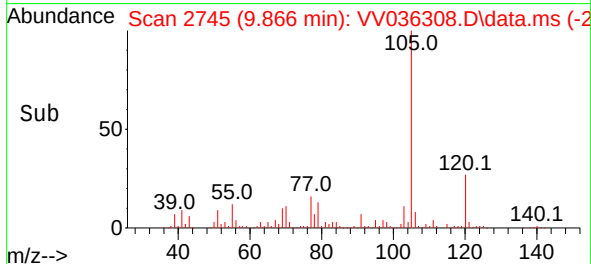
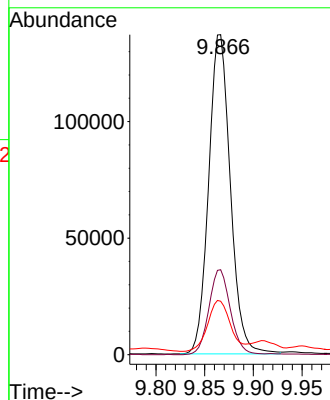
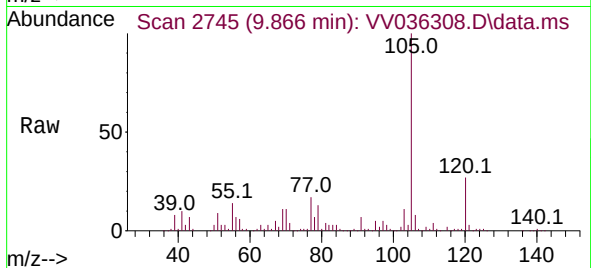




#60
Isopropylbenzene
Concen: 11.429 ug/L
RT: 9.866 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

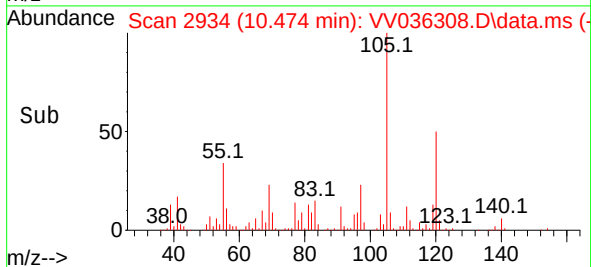
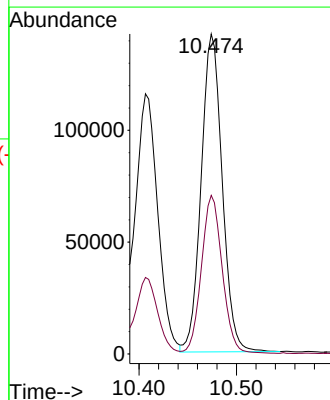
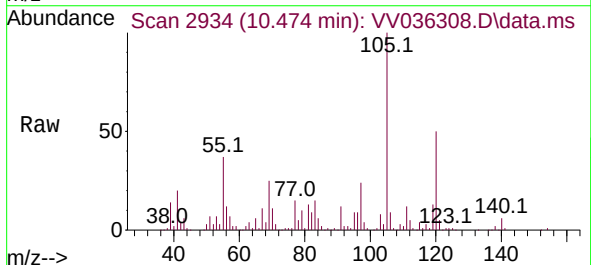
Instrument :
MSVOA_V
ClientSampleId :

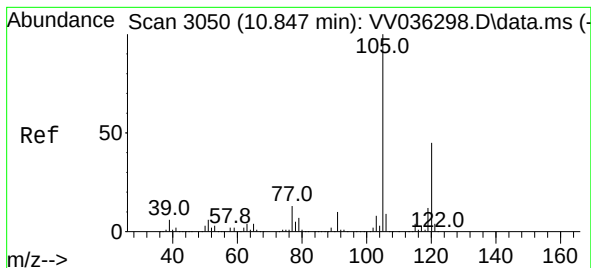
Tgt Ion:105 Resp: 212276
Ion Ratio Lower Upper
105 100
120 26.4 21.2 31.8
77 16.7 12.5 18.7



#62
1,3,5-Trimethylbenzene
Concen: 16.066 ug/L
RT: 10.474 min Scan# 2934
Delta R.T. -0.000 min
Lab File: VV036308.D
Acq: 27 Jun 2024 15:00

Tgt Ion:105 Resp: 213557
Ion Ratio Lower Upper
105 100
120 49.4 39.1 58.7





#63

1,2,4-Trimethylbenzene

Concen: 35.772 ug/L

RT: 10.850 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

Instrument :

MSVOA_V

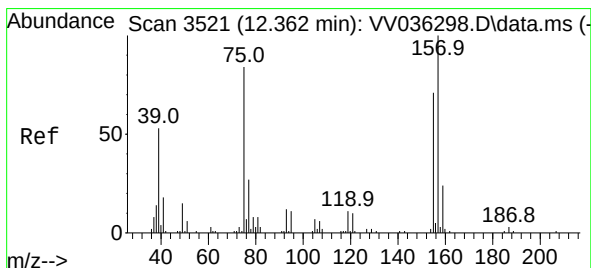
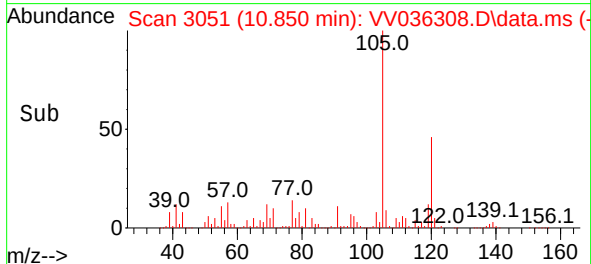
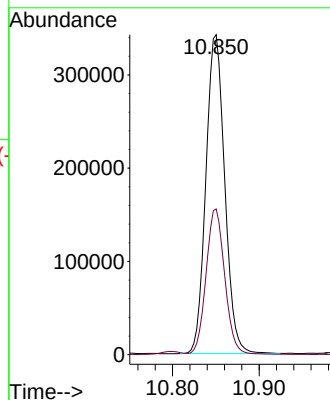
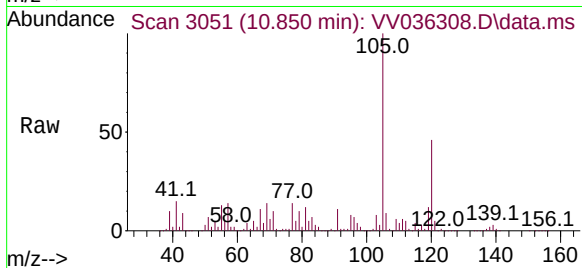
ClientSampleId :

Tgt Ion:105 Resp: 516715

Ion Ratio Lower Upper

105 100

120 45.1 36.2 54.4



#68

1,2-Dibromo-3-chloropropane

Concen: 15.041 ug/L

RT: 12.352 min Scan# 3518

Delta R.T. -0.010 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

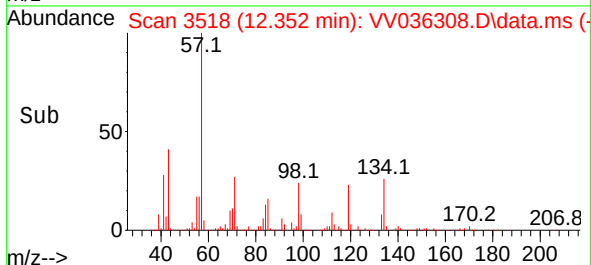
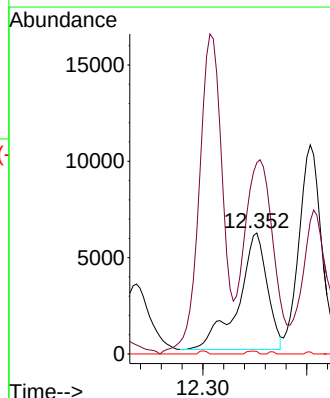
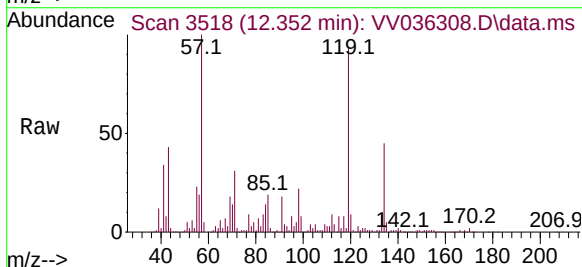
Tgt Ion: 75 Resp: 11701

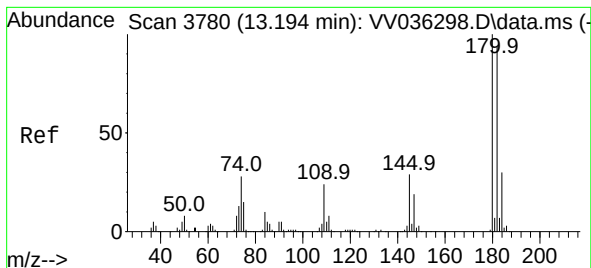
Ion Ratio Lower Upper

75 100

155 158.3 68.3 102.5#

157 2.1 95.7 143.5#





#70

1,2,4-trichlorobenzene

Concen: 0.380 ug/L

RT: 13.249 min Scan# 31

Delta R.T. 0.055 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

Instrument :

MSVOA_V

ClientSampleId :

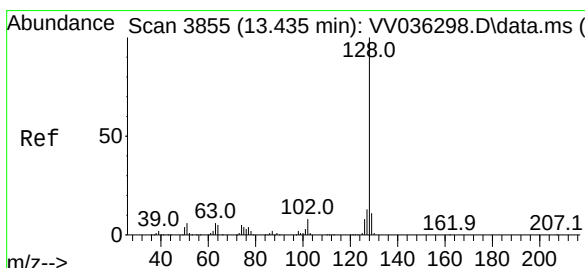
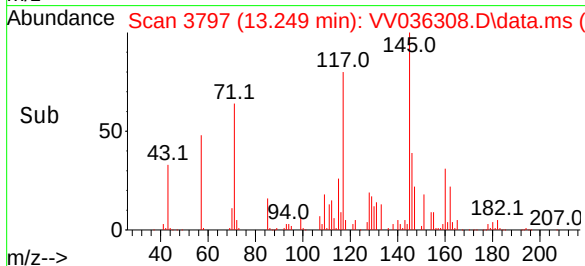
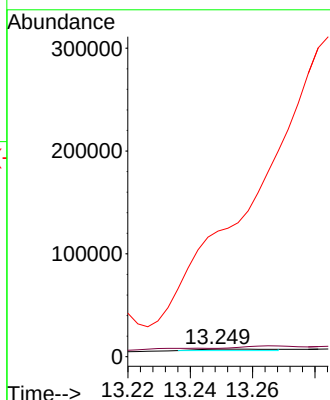
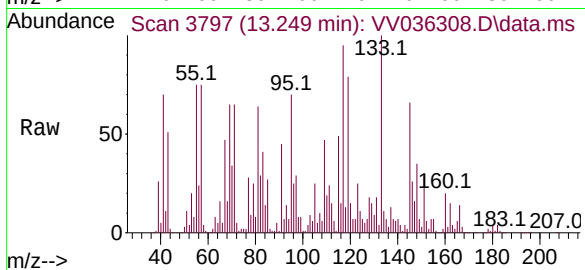
Tgt Ion:180 Resp: 2207

Ion Ratio Lower Upper

180 100

182 153.5 76.1 114.1#

145 0.0 23.8 35.8#



#71

Naphthalene

Concen: 19.008 ug/L

RT: 13.429 min Scan# 3853

Delta R.T. -0.007 min

Lab File: VV036308.D

Acq: 27 Jun 2024 15:00

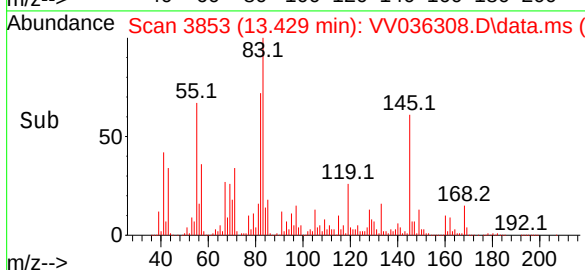
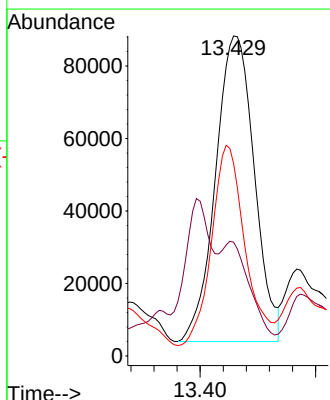
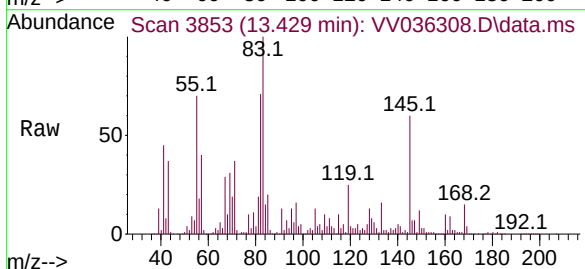
Tgt Ion:128 Resp: 196958

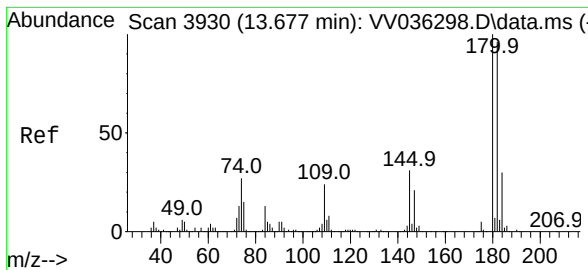
Ion Ratio Lower Upper

128 100

127 24.0 10.8 16.2#

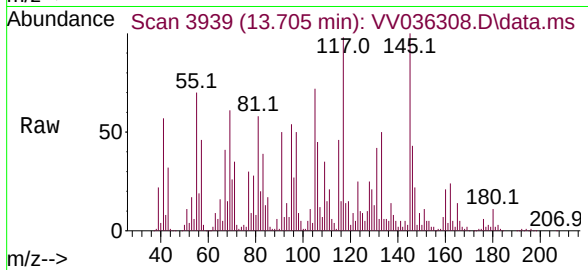
129 56.6 8.6 13.0#





#72
 1,2,3-Trichlorobenzene
 Concen: 5.926 ug/L
 RT: 13.705 min Scan# 3939
 Delta R.T. 0.029 min
 Lab File: VV036308.D
 Acq: 27 Jun 2024 15:00

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:180 Resp: 32383
 Ion Ratio Lower Upper
 180 100
 182 31.4 76.7 115.1#
 145 1066.9 25.0 37.4#

