

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW062524\
 Data File : VW036281.D
 Acq On : 25 Jun 2024 19:28
 Operator : SY/MD
 Sample : VIBLK301
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK301

Quant Time: Jun 26 04:25:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 26 04:03:41 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.583	114	328	25.000	ug/L	# 0.05
28) Chlorobenzene-d5	8.805	117	2133	25.000	ug/L	# 0.03
58) 1,4-Dichlorobenzene-d4	11.197	152	3026	25.000	ug/L	0.02
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.269	65	451	74.789	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	299.160%#
7) Chloroethane-d5	1.529	69	43	8.943	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	35.760%
11) 1,1-Dichloroethene-d2	2.056	65	382	142.297	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	569.200%#
21) 2-Butanone-d5	3.850	46	82	59.267	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.540%
24) Chloroform-d	4.272	84	40	3.836	ug/L	0.03
Spiked Amount	25.000	Range	40 - 150	Recovery	=	15.360%#
26) 1,2-Dichloroethane-d4	4.995	65	67	12.255	ug/L	0.06
Spiked Amount	25.000	Range	70 - 130	Recovery	=	49.000%#
32) Benzene-d6	4.989	84	501	3.951	ug/L	0.04
Spiked Amount	25.000	Range	20 - 135	Recovery	=	15.800%#
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	25.000	Range	70 - 120	Recovery	=	0.000%#
41) Toluene-d8	7.275	98	615	5.497	ug/L	0.04
Spiked Amount	25.000	Range	30 - 130	Recovery	=	22.000%#
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.000%#
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	10.159	84	591	19.808	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.240%
66) 1,2-Dichlorobenzene-d4	11.570	152	2260	20.366	ug/L	0.01
Spiked Amount	25.000	Range	75 - 120	Recovery	=	81.480%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	116	19.614	ug/L	90
3) Chloromethane	1.207	50	339	49.947	ug/L	95
5) Vinyl chloride	1.439	62	41	5.738	ug/L	# 42
6) Bromomethane	1.481	94	386	87.080	ug/L	93
8) Chloroethane	1.532	64	69	15.536	ug/L	# 1
9) Trichlorofluoromethane	1.706	101	271	30.540	ug/L	100
12) 1,1-Dichloroethene	2.063	96	132	25.131	ug/L	# 49
13) Acetone	2.156	43	475	220.398	ug/L	# 1
14) Carbon disulfide	2.240	76	440	24.123	ug/L	# 3
15) Methyl Acetate	2.365	43	54	20.158	ug/L	# 48
16) Methylene chloride	2.442	84	19762	2662.634	ug/L	89
22) 2-Butanone	3.854	43	632	345.595	ug/L	85
25) Chloroform	4.284	83	78	7.136	ug/L	# 18
29) Cyclohexane	4.818	56	64	1.260	ug/L	# 14
31) Carbon tetrachloride	5.008	117	238	4.652	ug/L	# 2
35) Methylcyclohexane	6.040	83	77	1.302	ug/L	# 40
40) 4-Methyl-2-pentanone	7.185	43	96	4.824	ug/L	# 1
42) Toluene	7.365	91	110	0.772	ug/L	# 22
44) trans-1,3-Dichloropropene	7.860	75	71	1.500	ug/L	# 11

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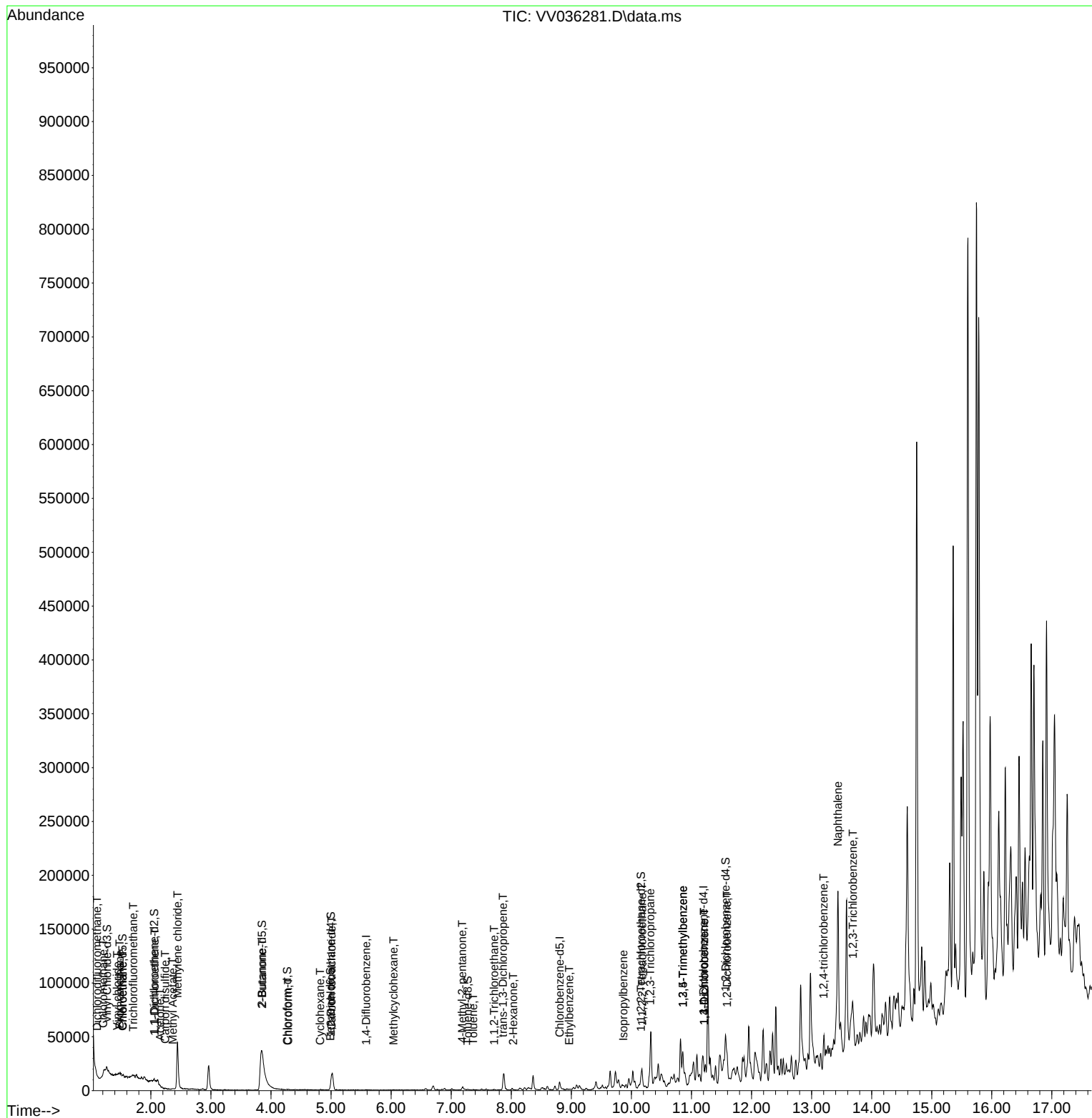
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

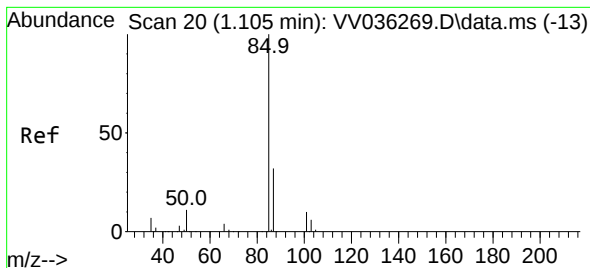
45) 1,1,2-Trichloroethane	7.715	97	154	5.081	ug/L #	15
48) 2-Hexanone	8.034	43	237	15.232	ug/L #	37
52) Ethylbenzene	8.963	91	748	4.904	ug/L #	44
57) 1,1,2,2-Tetrachloroethane	10.178	83	1096	40.384	ug/L #	25
60) Isopropylbenzene	9.866	105	872	2.246	ug/L #	59
61) 1,2,3-Trichloropropane	10.313	75	165	2.306	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.857	105	14932	53.043	ug/L	92
63) 1,2,4-Trimethylbenzene	10.857	105	14932	49.231	ug/L	96
64) 1,3-Dichlorobenzene	11.210	146	86	0.422	ug/L #	1
65) 1,4-Dichlorobenzene	11.210	146	86	0.409	ug/L #	1
67) 1,2-Dichlorobenzene	11.590	146	91	0.474	ug/L #	1
70) 1,2,4-trichlorobenzene	13.197	180	119	0.991	ug/L #	9
71) Naphthalene	13.438	128	108827	555.352	ug/L	99
72) 1,2,3-Trichlorobenzene	13.686	180	345	3.149	ug/L #	81

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

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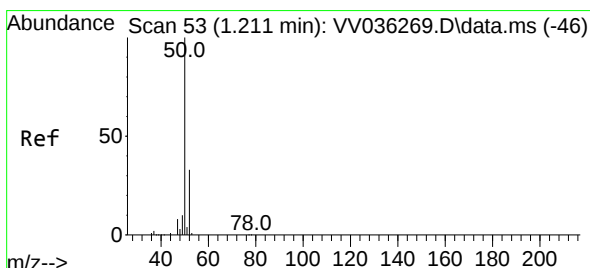
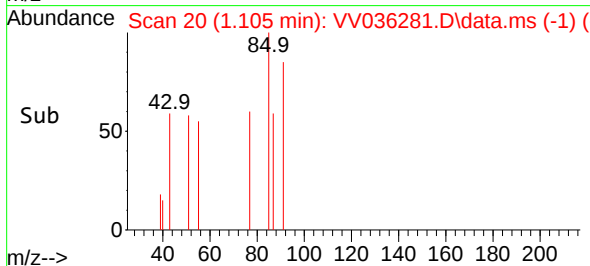
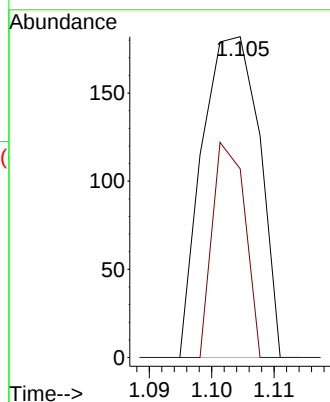
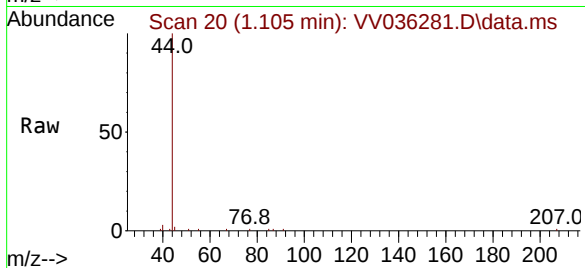




#2
Dichlorodifluoromethane
Concen: 19.614 ug/L
RT: 1.105 min Scan# 20
Delta R.T. -0.000 min
Lab File: VV036281.D
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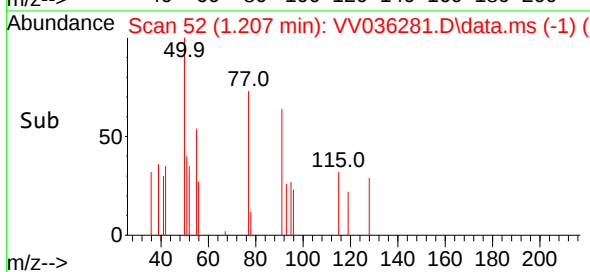
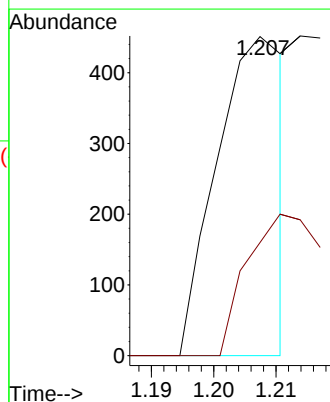
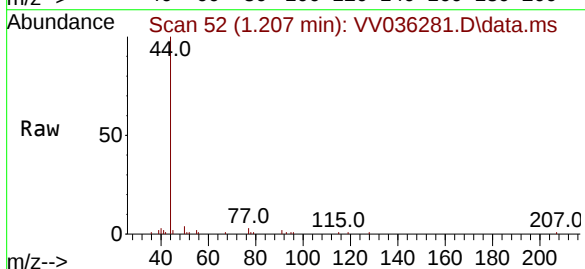
Instrument :
MSVOA_V
ClientSampleId :
VIBLK301

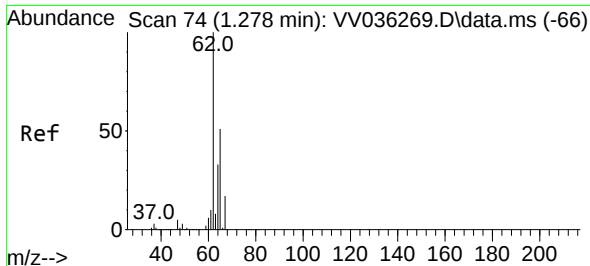
Tgt Ion: 85 Resp: 116
Ion Ratio Lower Upper
85 100
87 37.9 25.9 38.9



#3
Chloromethane
Concen: 49.947 ug/L
RT: 1.207 min Scan# 52
Delta R.T. -0.003 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

Tgt Ion: 50 Resp: 339
Ion Ratio Lower Upper
50 100
52 35.5 22.8 42.4

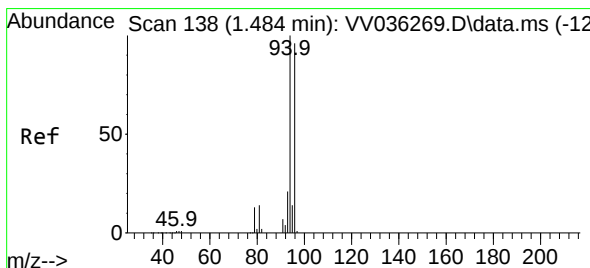
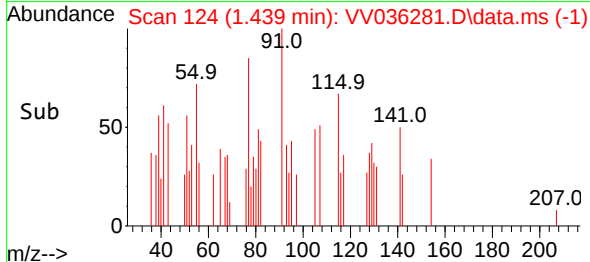
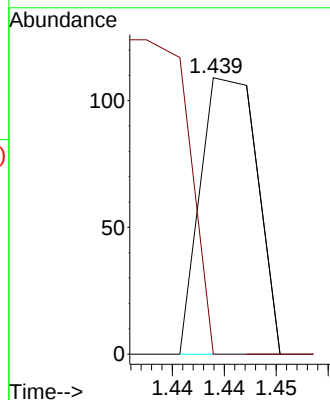
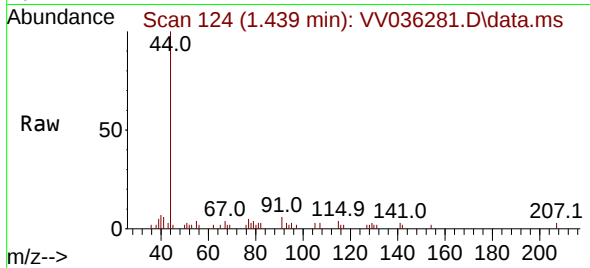




#5
 Vinyl chloride
 Concen: 5.738 ug/L
 RT: 1.439 min Scan# 11
 Delta R.T. 0.161 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

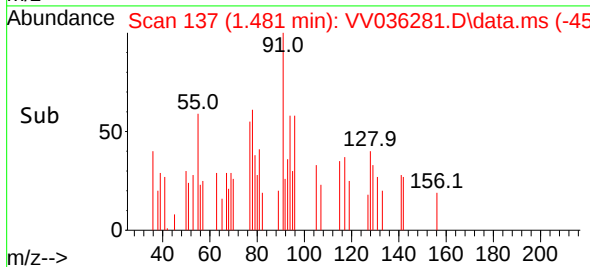
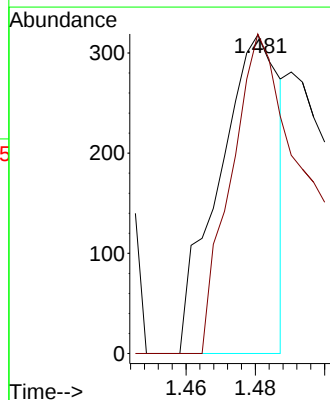
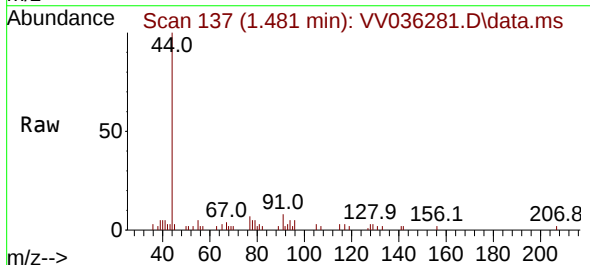
Instrument :
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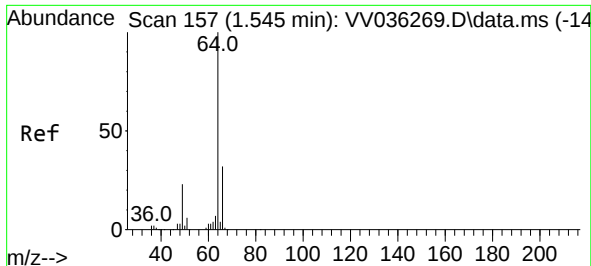
Tgt Ion: 62 Resp: 41
 Ion Ratio Lower Upper
 62 100
 64 0.0 22.9 42.5#



#6
 Bromomethane
 Concen: 87.080 ug/L
 RT: 1.481 min Scan# 137
 Delta R.T. -0.003 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

Tgt Ion: 94 Resp: 386
 Ion Ratio Lower Upper
 94 100
 96 100.3 65.7 122.1

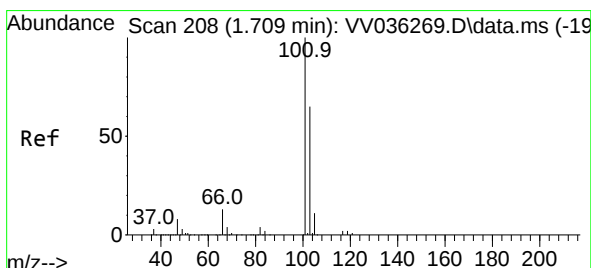
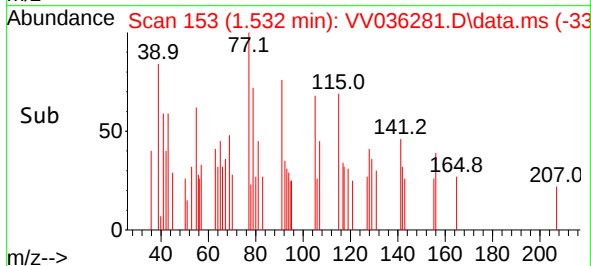
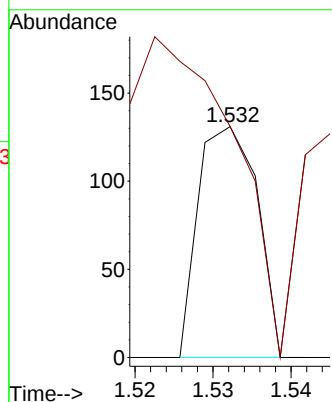
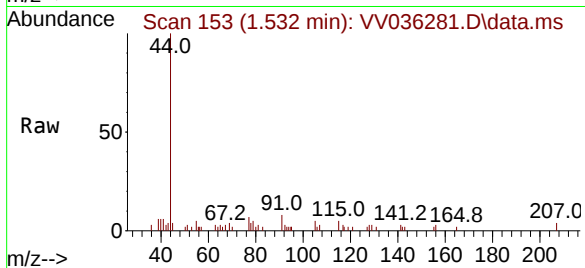




#8
Chloroethane
Concen: 15.536 ug/L
RT: 1.532 min Scan# 11
Delta R.T. -0.013 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

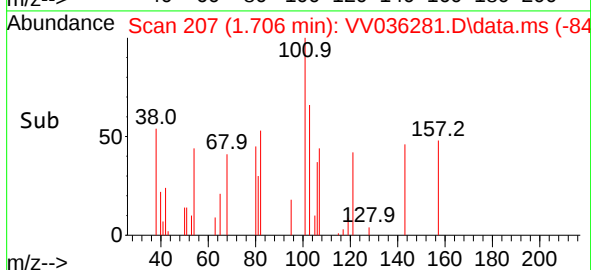
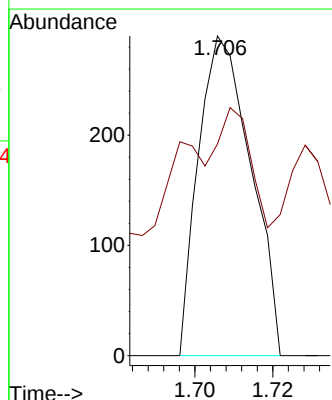
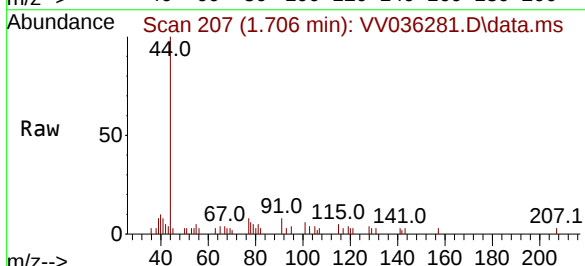
Instrument :
MSVOA_V
ClientSampleId :
VIBLK301

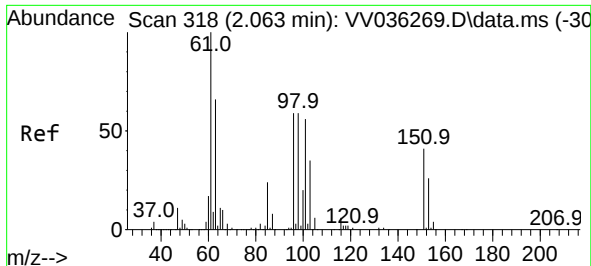
Tgt Ion: 64 Resp: 69
Ion Ratio Lower Upper
64 100
66 100.0 22.0 41.0#



#9
Trichlorofluoromethane
Concen: 30.540 ug/L
RT: 1.706 min Scan# 207
Delta R.T. -0.003 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

Tgt Ion:101 Resp: 271
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.8

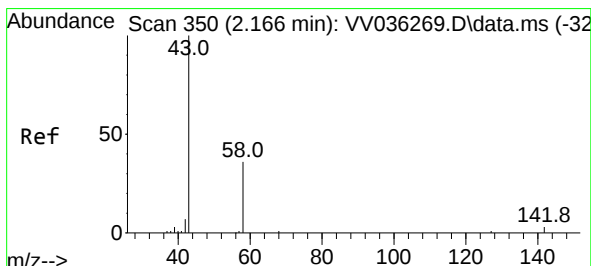
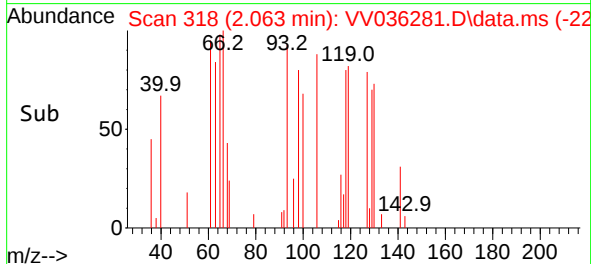
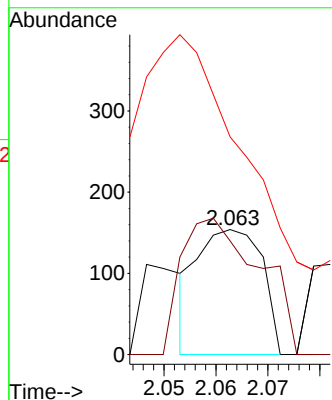
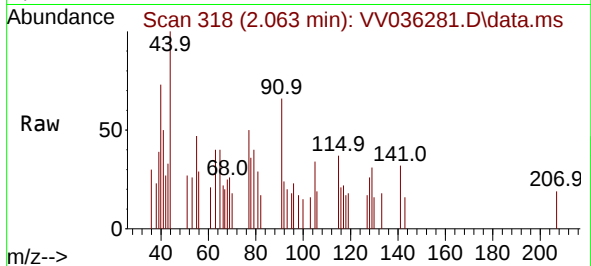




#12
1,1-Dichloroethene
Concen: 25.131 ug/L
RT: 2.063 min Scan# 318
Delta R.T. -0.000 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

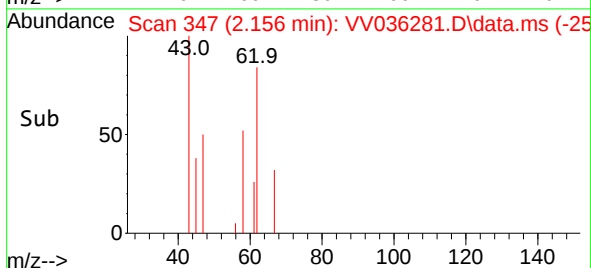
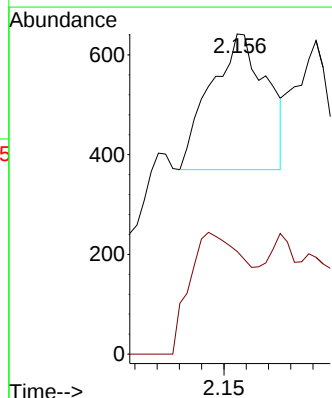
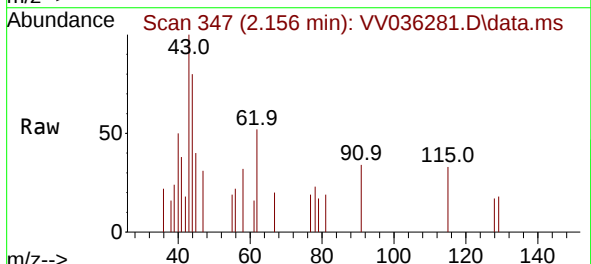
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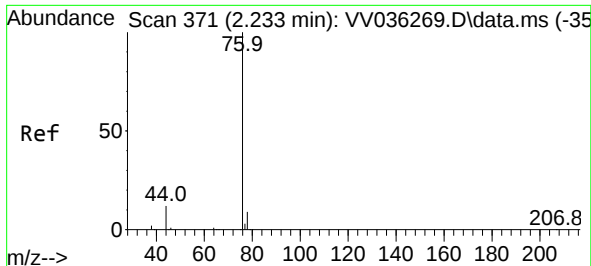
Tgt Ion: 96 Resp: 132
Ion Ratio Lower Upper
96 100
61 90.9 127.3 236.3#
63 174.0 93.7 173.9#



#13
Acetone
Concen: 220.398 ug/L
RT: 2.156 min Scan# 347
Delta R.T. -0.010 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

Tgt Ion: 43 Resp: 475
Ion Ratio Lower Upper
43 100
58 86.3 0.0 24.2#





#14

Carbon disulfide

Concen: 24.123 ug/L

RT: 2.240 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

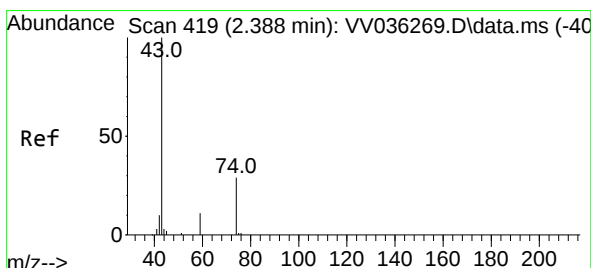
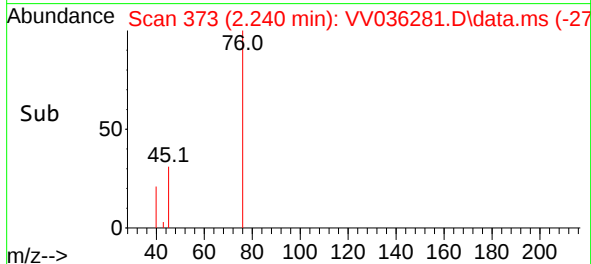
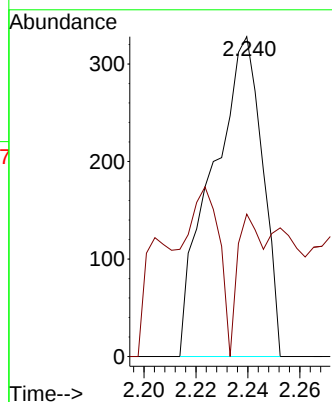
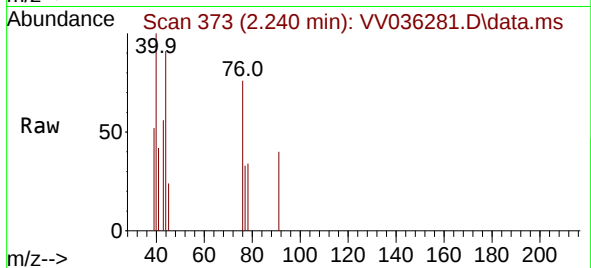
VIBLK301

Tgt Ion: 76 Resp: 440

Ion Ratio Lower Upper

76 100

78 44.5 7.4 11.2#



#15

Methyl Acetate

Concen: 20.158 ug/L

RT: 2.365 min Scan# 412

Delta R.T. -0.023 min

Lab File: VV036281.D

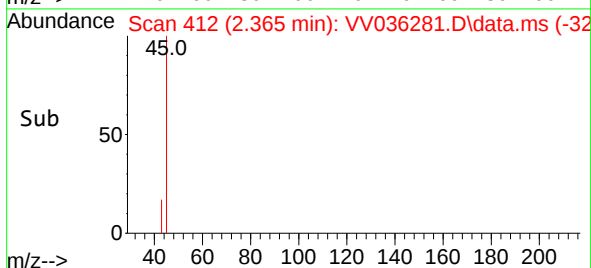
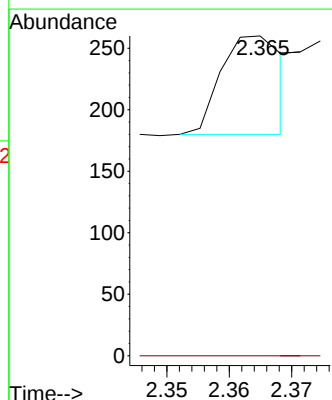
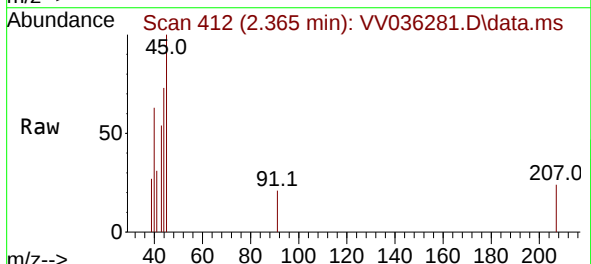
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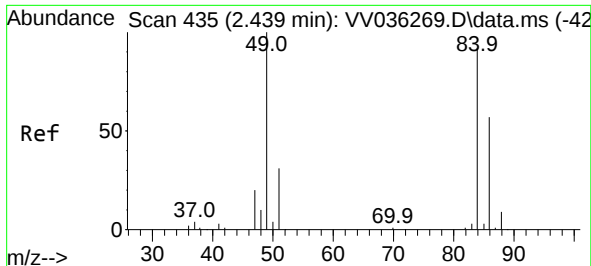
Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

74 0.0 21.4 32.2#

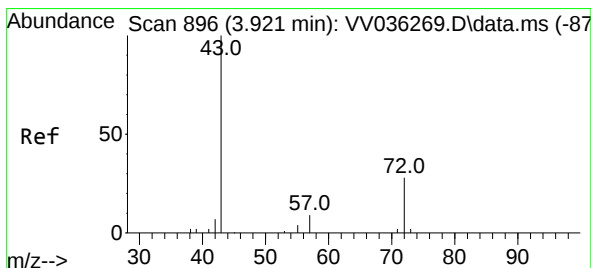
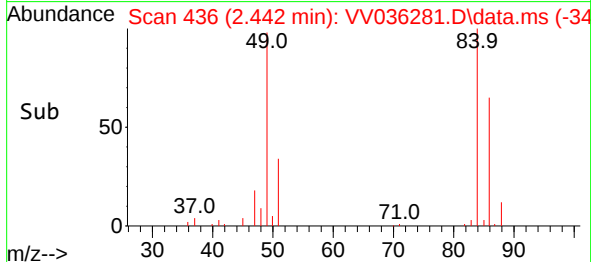
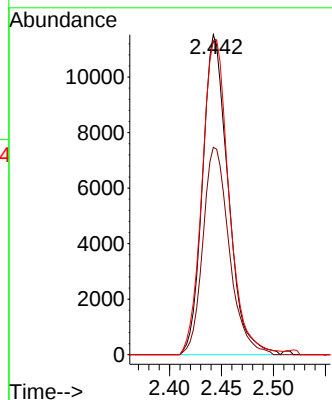
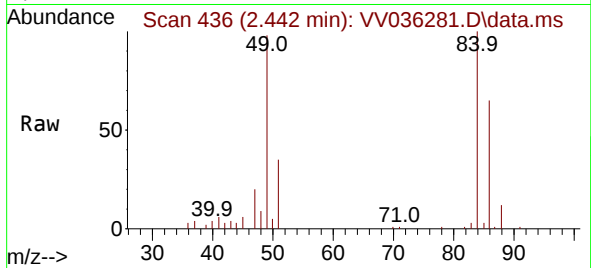




#16
Methylene chloride
Concen: 2662.634 ug/L
RT: 2.442 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

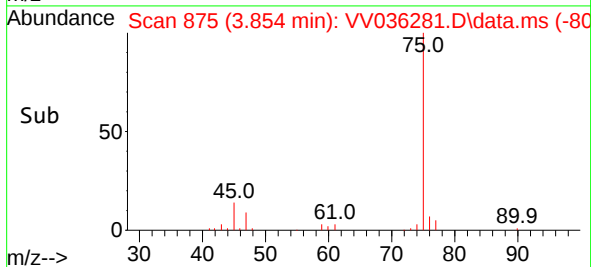
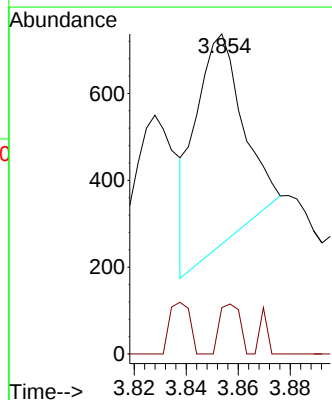
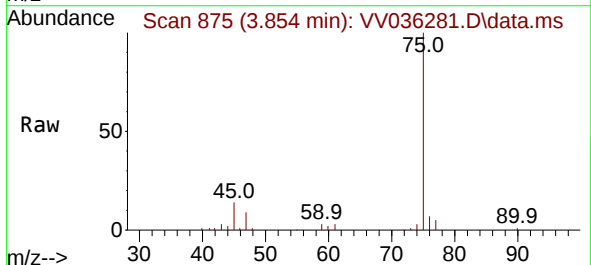
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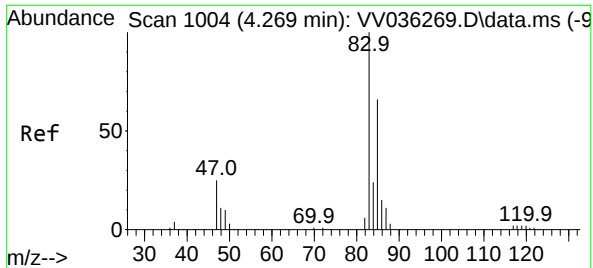
Tgt Ion: 84 Resp: 19762
Ion Ratio Lower Upper
84 100
86 64.8 44.6 82.8
49 98.0 81.1 150.5



#22
2-Butanone
Concen: 345.595 ug/L
RT: 3.854 min Scan# 875
Delta R.T. -0.068 min
Lab File: VV036281.D
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Tgt Ion: 43 Resp: 632
Ion Ratio Lower Upper
43 100
72 9.8 8.2 24.4





#25

Chloroform

Concen: 7.136 ug/L

RT: 4.284 min Scan# 1175

Delta R.T. 0.016 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

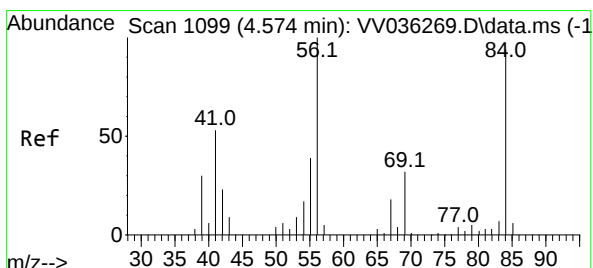
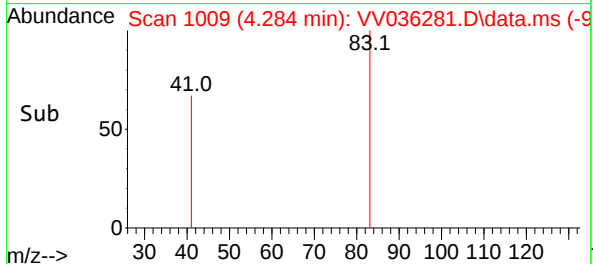
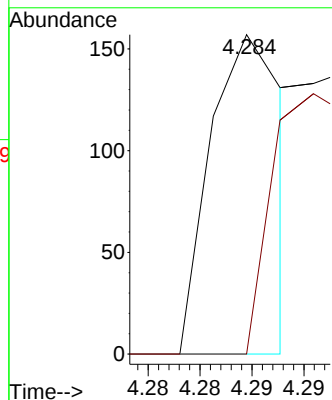
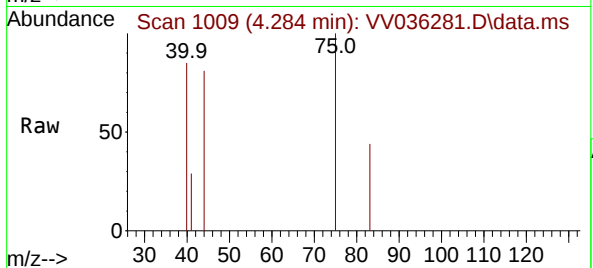
VIBLK301

Tgt Ion: 83 Resp: 78

Ion Ratio Lower Upper

83 100

85 0.0 45.2 84.0#



#29

Cyclohexane

Concen: 1.260 ug/L

RT: 4.818 min Scan# 1175

Delta R.T. 0.244 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

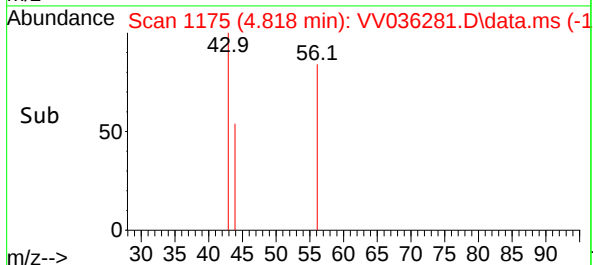
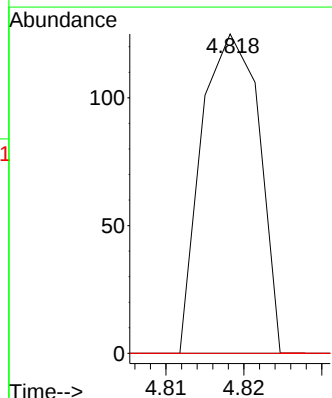
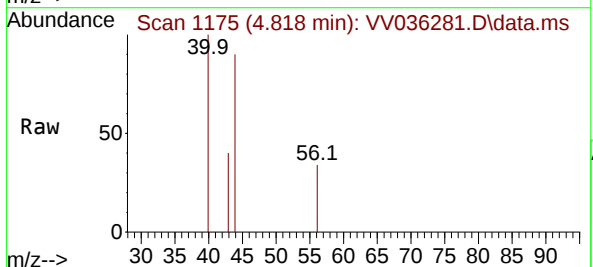
Tgt Ion: 56 Resp: 64

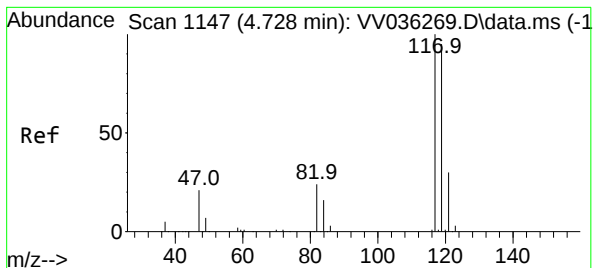
Ion Ratio Lower Upper

56 100

69 0.0 25.2 37.8#

84 0.0 72.2 108.2#





#31

Carbon tetrachloride

Concen: 4.652 ug/L

RT: 5.008 min Scan# 1147

Delta R.T. 0.280 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

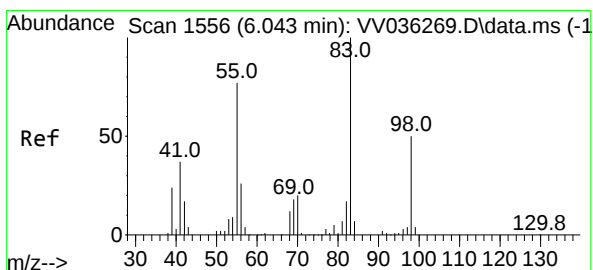
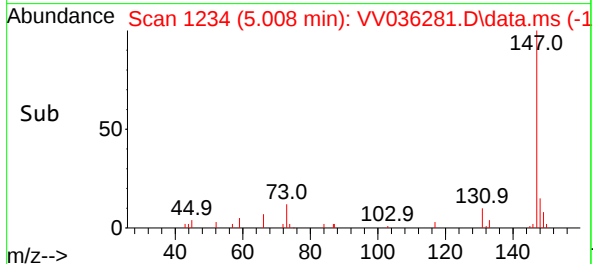
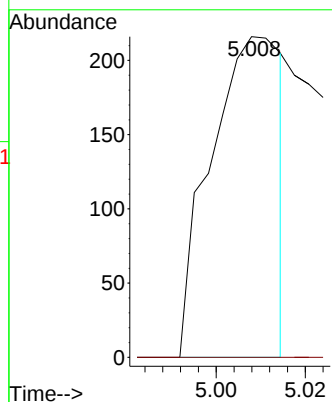
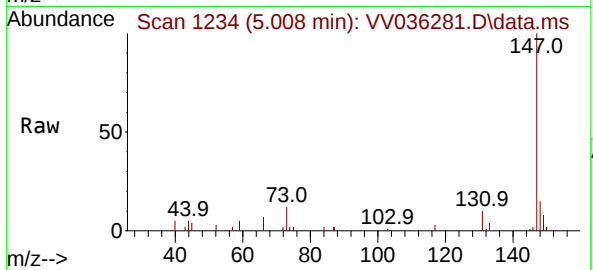
VIBLK301

Tgt Ion:117 Resp: 238

Ion Ratio Lower Upper

117 100

119 0.0 76.8 115.2#



#35

Methylcyclohexane

Concen: 1.302 ug/L

RT: 6.040 min Scan# 1555

Delta R.T. -0.003 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

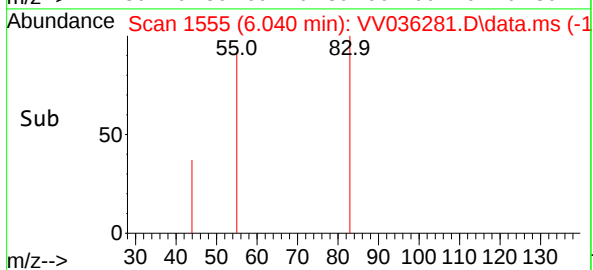
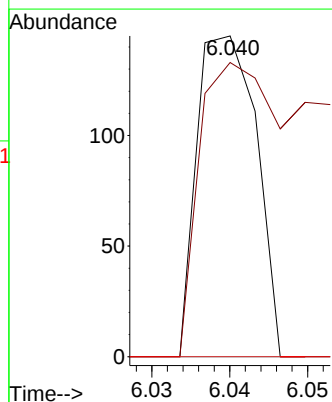
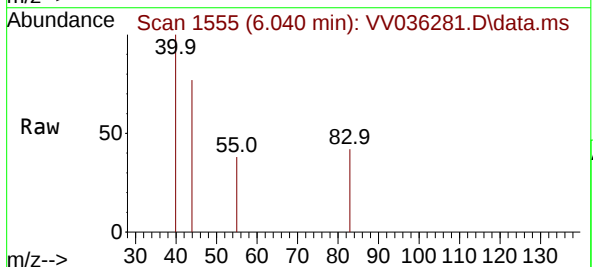
Tgt Ion: 83 Resp: 77

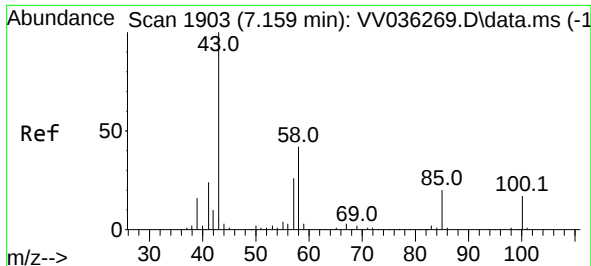
Ion Ratio Lower Upper

83 100

55 120.8 60.7 91.1#

98 0.0 38.7 58.1#





#40

4-Methyl-2-pentanone

Concen: 4.824 ug/L

RT: 7.185 min Scan# 1911

Delta R.T. 0.026 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

VIBLK301

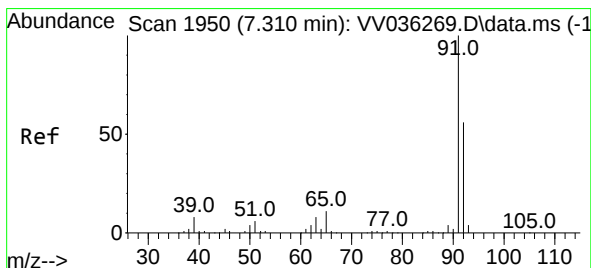
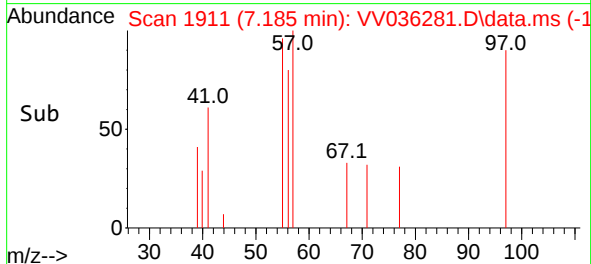
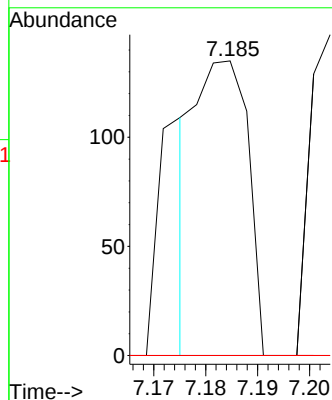
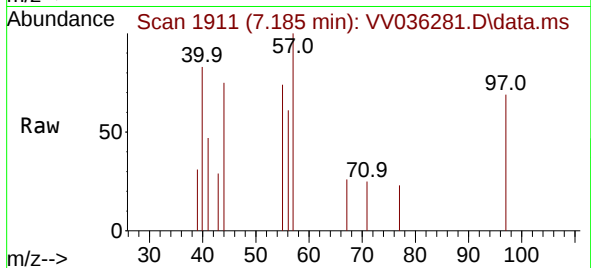
Tgt Ion: 43 Resp: 96

Ion Ratio Lower Upper

43 100

58 0.0 32.5 48.7#

100 327.1 12.5 18.7#



#42

Toluene

Concen: 0.772 ug/L

RT: 7.365 min Scan# 1967

Delta R.T. 0.055 min

Lab File: VV036281.D

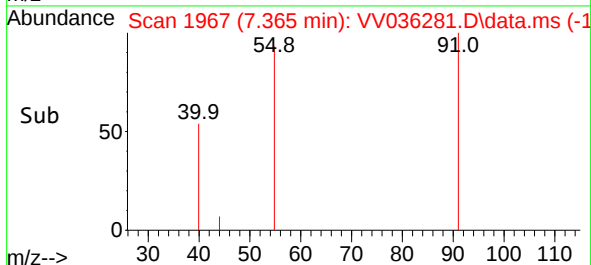
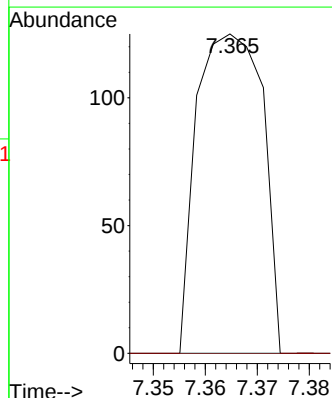
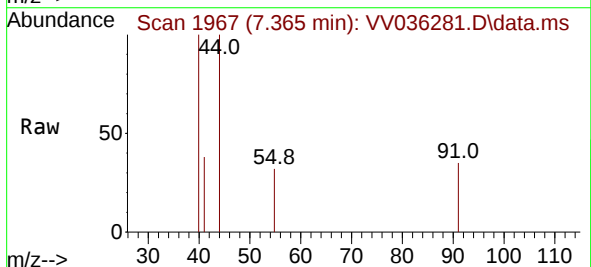
Acq: 25 Jun 2024 19:28

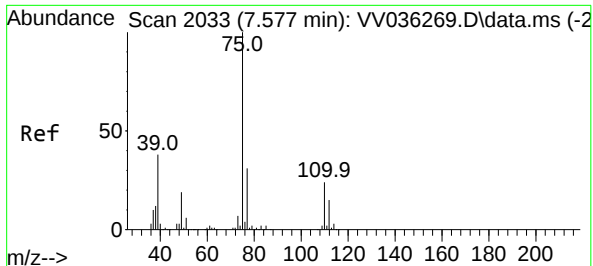
Tgt Ion: 91 Resp: 110

Ion Ratio Lower Upper

91 100

92 0.0 40.6 75.4#

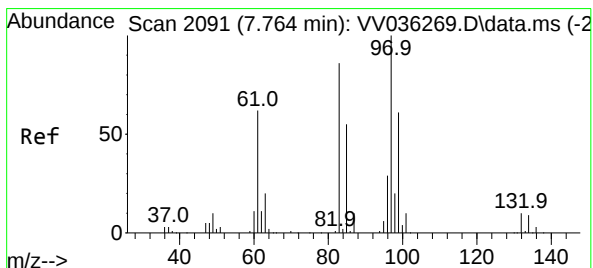
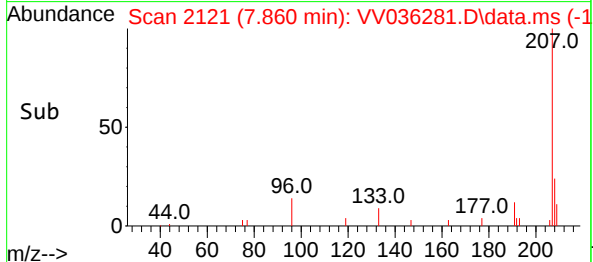
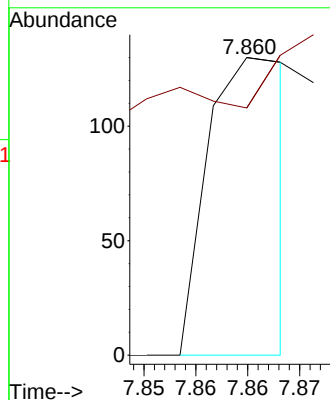
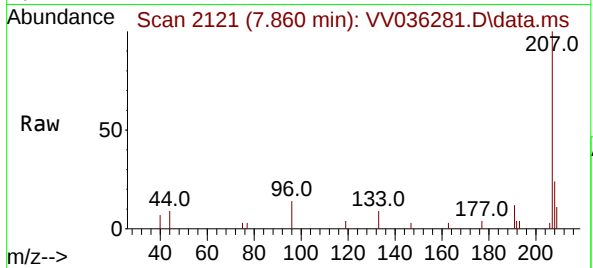




#44
trans-1,3-Dichloropropene
Concen: 1.500 ug/L
RT: 7.860 min Scan# 2121
Delta R.T. 0.283 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

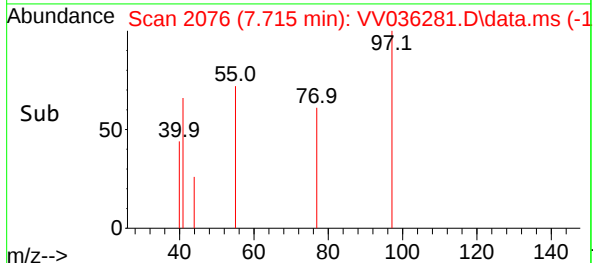
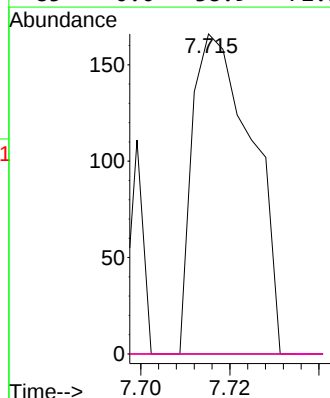
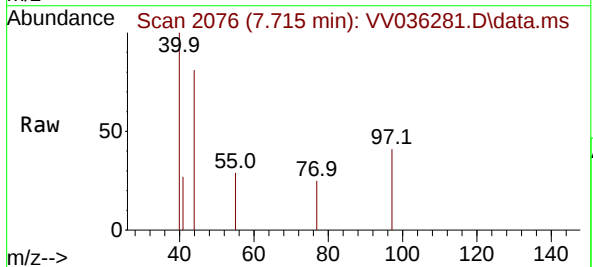
Instrument :
MSVOA_V
ClientSampleId :
VIBLK301

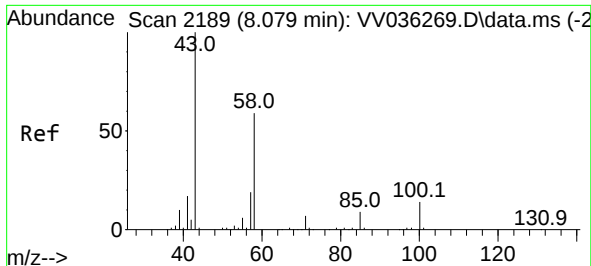
Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
77 83.1 23.1 42.9#



#45
1,1,2-Trichloroethane
Concen: 5.081 ug/L
RT: 7.715 min Scan# 2076
Delta R.T. -0.048 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

Tgt Ion: 97 Resp: 154
Ion Ratio Lower Upper
97 100
99 0.0 43.3 80.5#
83 0.0 60.1 111.7#
85 0.0 38.9 72.3#





#48

2-Hexanone

Concen: 15.232 ug/L

RT: 8.034 min Scan# 2189

Delta R.T. -0.045 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

VIBLK301

Tgt Ion: 43 Resp: 237

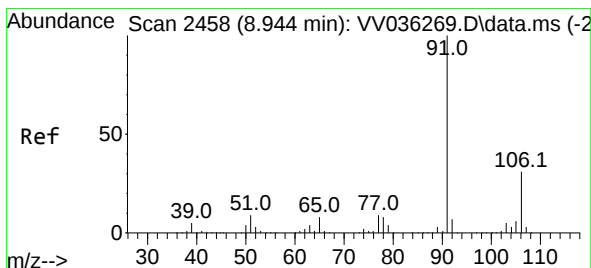
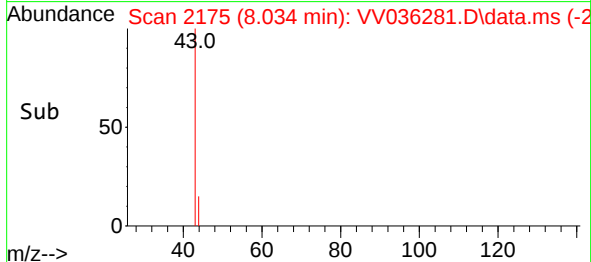
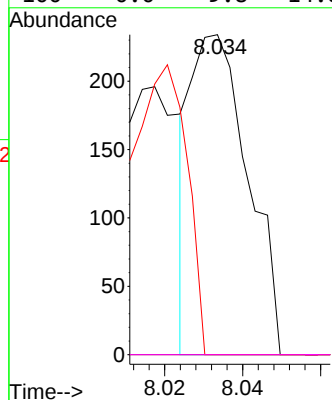
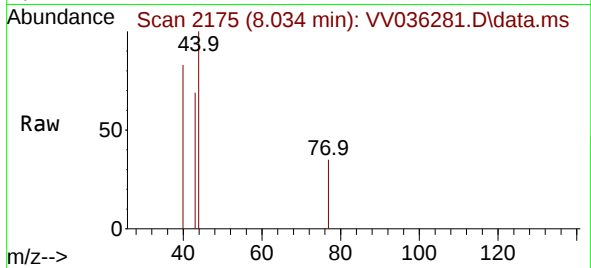
Ion Ratio Lower Upper

43 100

58 0.0 45.4 68.0#

57 0.0 15.8 23.8#

100 0.0 9.8 14.8#



#52

Ethylbenzene

Concen: 4.904 ug/L

RT: 8.963 min Scan# 2464

Delta R.T. 0.019 min

Lab File: VV036281.D

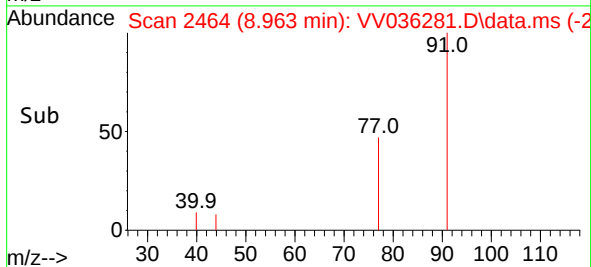
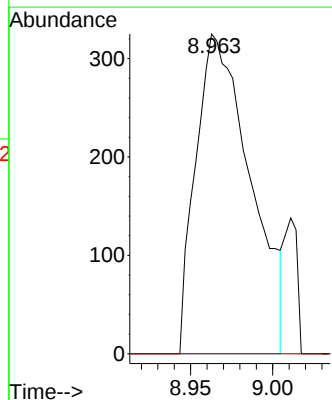
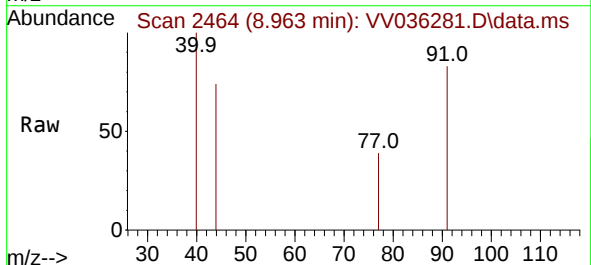
Acq: 25 Jun 2024 19:28

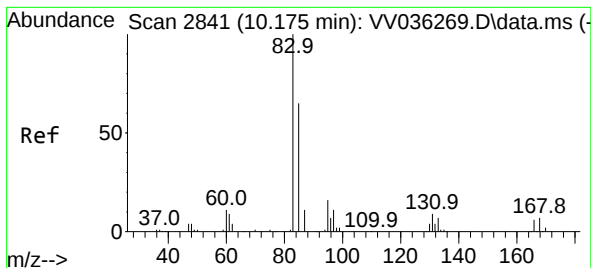
Tgt Ion: 91 Resp: 748

Ion Ratio Lower Upper

91 100

106 0.0 21.6 40.0#

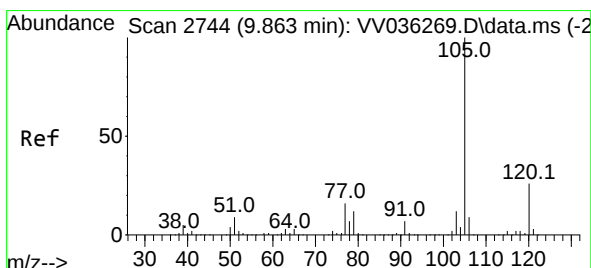
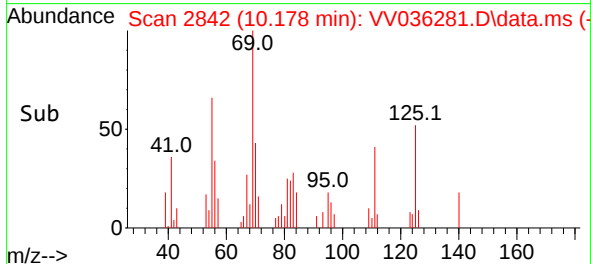
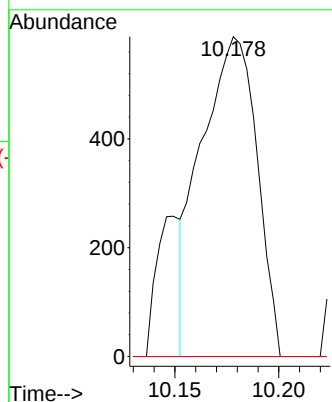
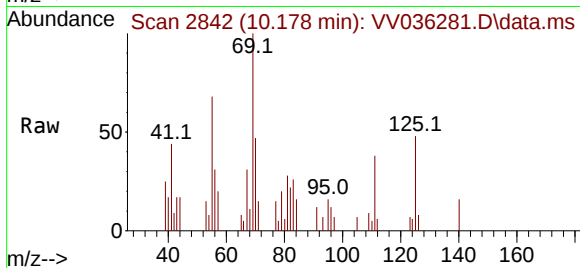




#57
 1,1,2-Tetrachloroethane
 Concen: 40.384 ug/L
 RT: 10.178 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

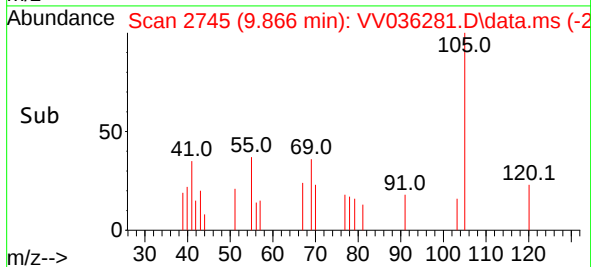
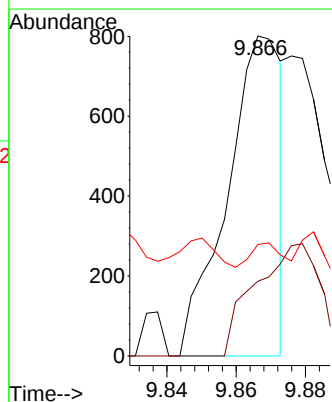
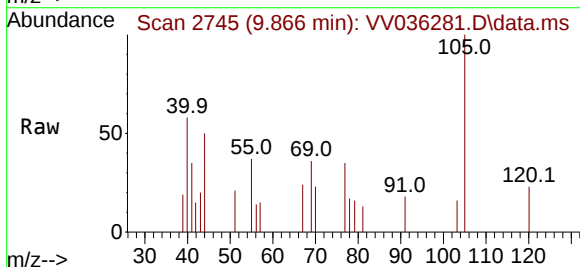
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK301

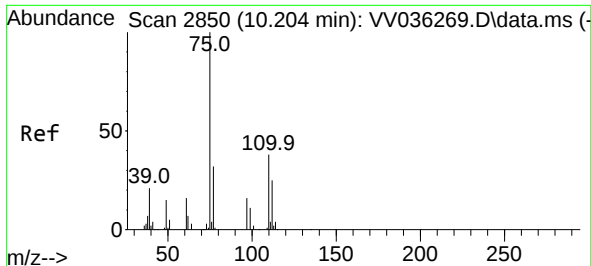
Tgt Ion: 83 Resp: 1096
 Ion Ratio Lower Upper
 83 100
 85 0.0 45.1 83.7#
 131 0.0 7.6 11.4#



#60
 Isopropylbenzene
 Concen: 2.246 ug/L
 RT: 9.866 min Scan# 2745
 Delta R.T. 0.003 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

Tgt Ion: 105 Resp: 872
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.0 31.6#
 77 5.2 12.6 18.8#

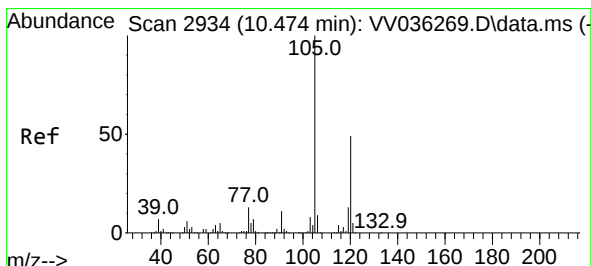
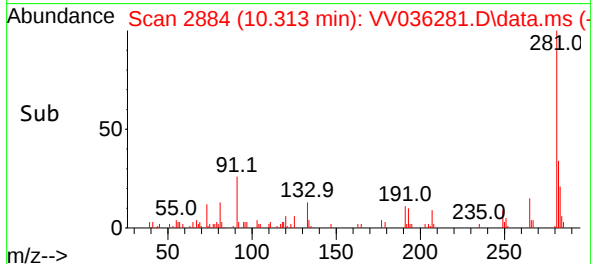
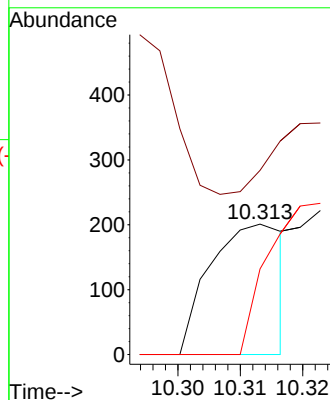
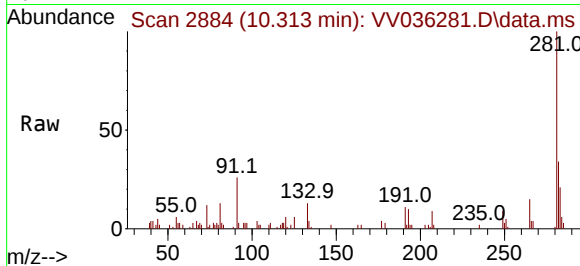




#61
 1,2,3-Trichloropropane
 Concen: 2.306 ug/L
 RT: 10.313 min Scan# 21
 Delta R.T. 0.109 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

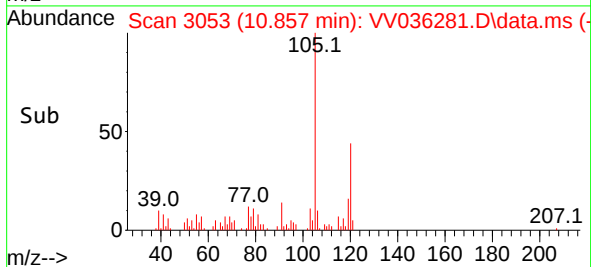
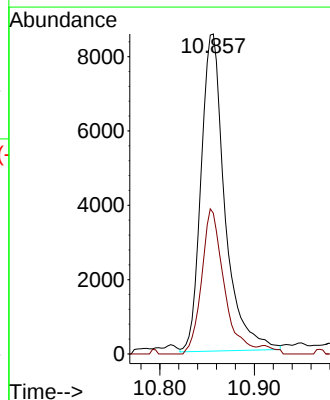
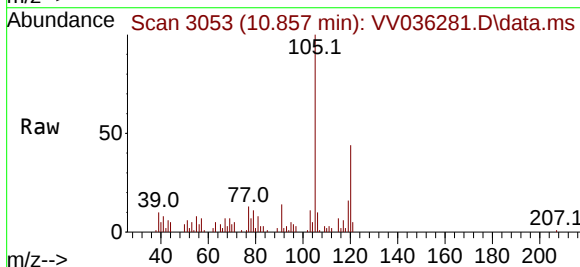
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK301

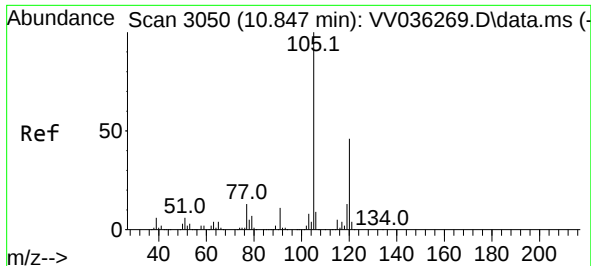
Tgt Ion: 75 Resp: 165
 Ion Ratio Lower Upper
 75 100
 77 290.9 26.0 39.0#
 110 0.0 32.2 48.4#



#62
 1,3,5-Trimethylbenzene
 Concen: 53.043 ug/L
 RT: 10.857 min Scan# 3053
 Delta R.T. 0.382 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

Tgt Ion: 105 Resp: 14932
 Ion Ratio Lower Upper
 105 100
 120 42.9 38.6 58.0

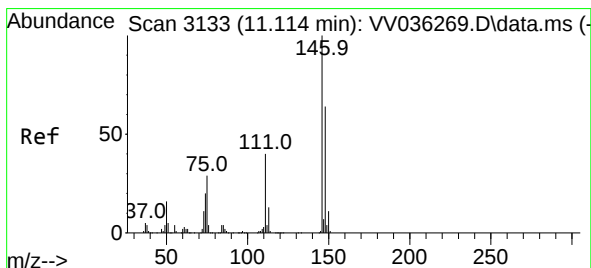
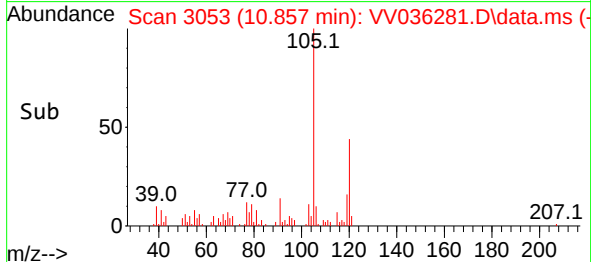
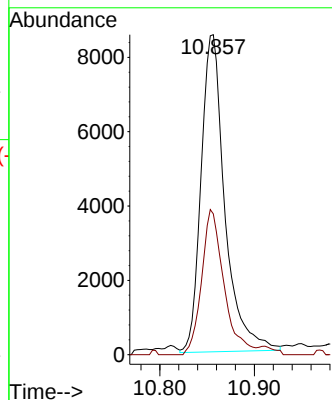
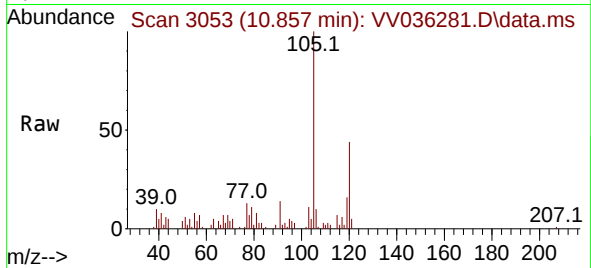




#63
1,2,4-Trimethylbenzene
Concen: 49.231 ug/L
RT: 10.857 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

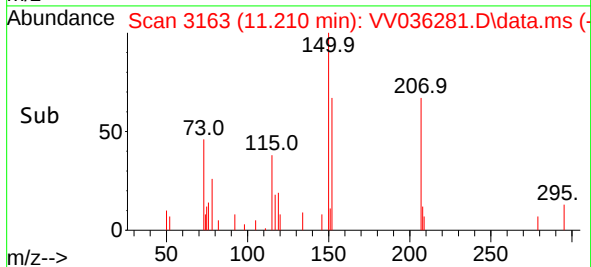
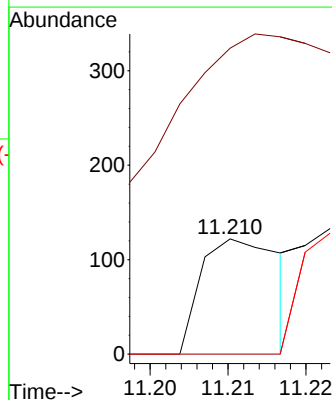
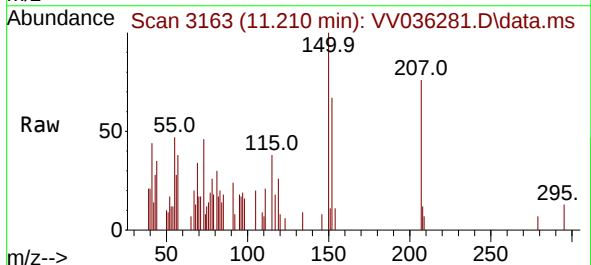
Instrument :
MSVOA_V
ClientSampleId :
VIBLK301

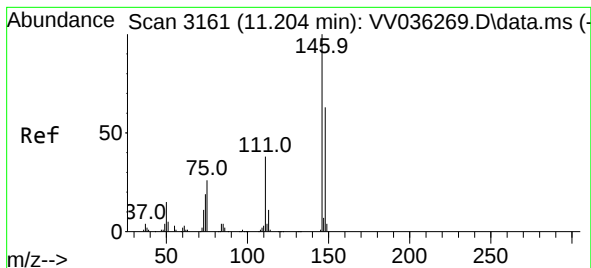
Tgt Ion:105 Resp: 14932
Ion Ratio Lower Upper
105 100
120 42.9 36.2 54.4



#64
1,3-Dichlorobenzene
Concen: 0.422 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.096 min
Lab File: VV036281.D
Acq: 25 Jun 2024 19:28

Tgt Ion:146 Resp: 86
Ion Ratio Lower Upper
146 100
111 265.6 28.1 52.1#
148 0.0 44.7 83.1#





#65

1,4-Dichlorobenzene

Concen: 0.409 ug/L

RT: 11.210 min Scan# 3161

Delta R.T. 0.006 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

VIBLK301

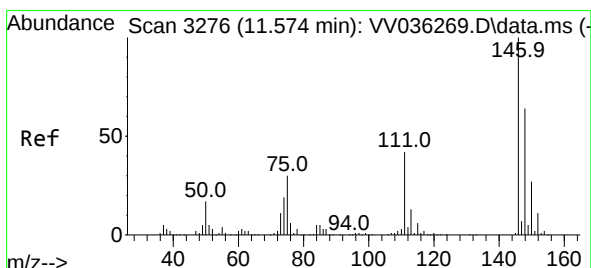
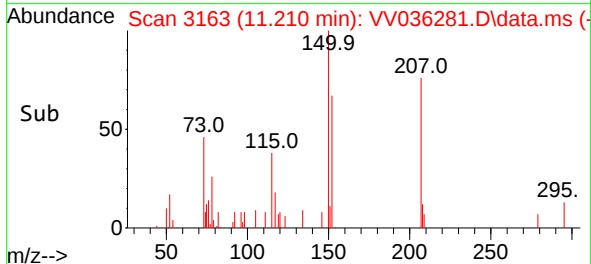
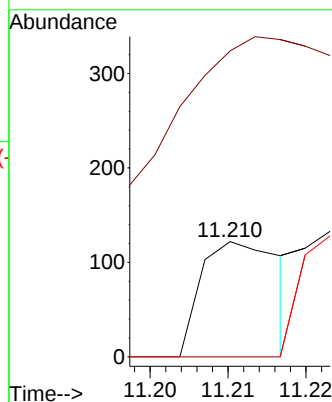
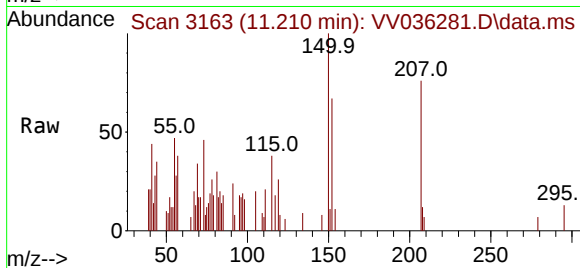
Tgt Ion:146 Resp: 86

Ion Ratio Lower Upper

146 100

111 265.6 26.9 50.1#

148 0.0 44.5 82.7#



#67

1,2-Dichlorobenzene

Concen: 0.474 ug/L

RT: 11.590 min Scan# 3281

Delta R.T. 0.016 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

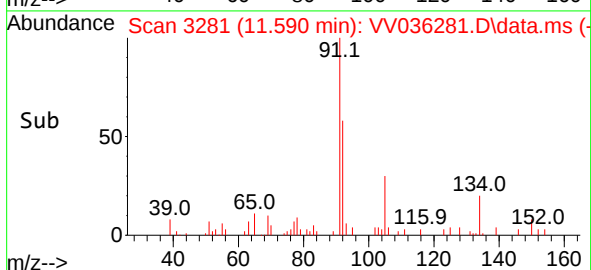
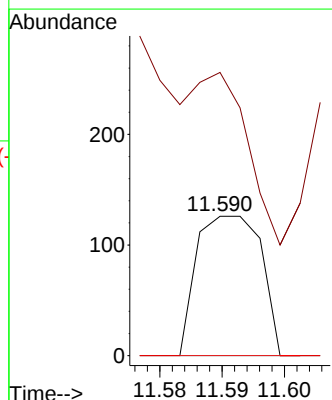
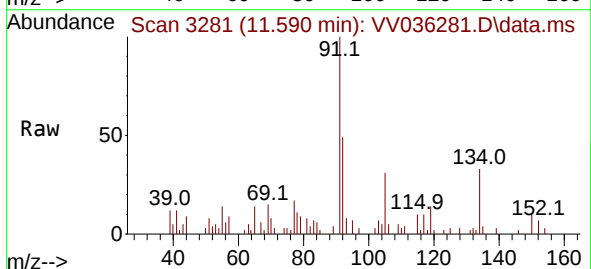
Tgt Ion:146 Resp: 91

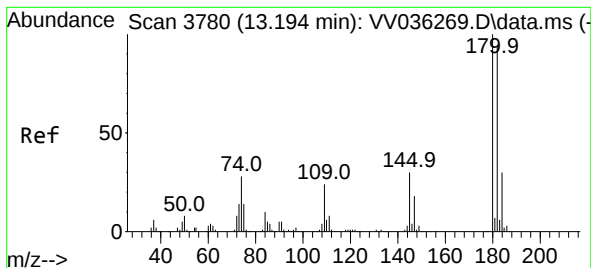
Ion Ratio Lower Upper

146 100

111 203.2 33.5 50.3#

148 0.0 50.9 76.3#





#70

1,2,4-trichlorobenzene

Concen: 0.991 ug/L

RT: 13.197 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

Instrument :

MSVOA_V

ClientSampleId :

VIBLK301

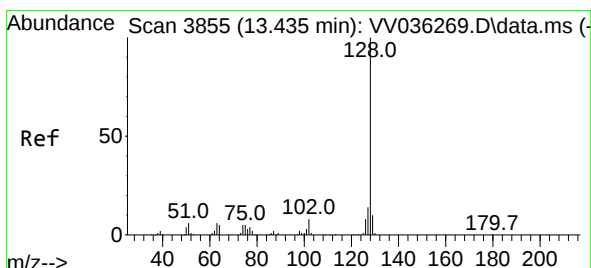
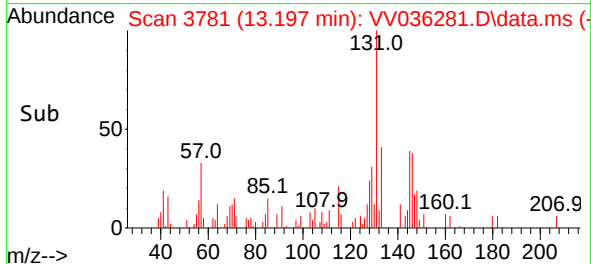
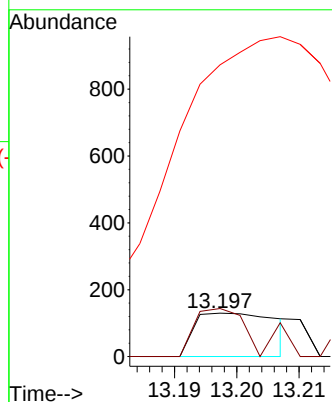
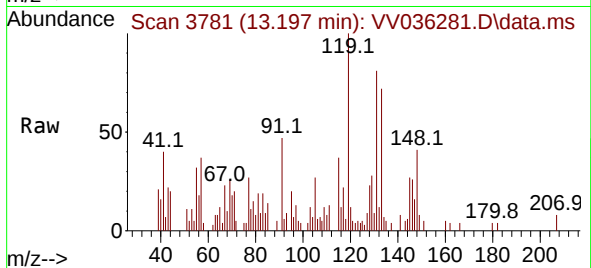
Tgt Ion:180 Resp: 119

Ion Ratio Lower Upper

180 100

182 65.5 76.1 114.1#

145 183.2 23.5 35.3#



#71

Naphthalene

Concen: 555.352 ug/L

RT: 13.438 min Scan# 3856

Delta R.T. 0.003 min

Lab File: VV036281.D

Acq: 25 Jun 2024 19:28

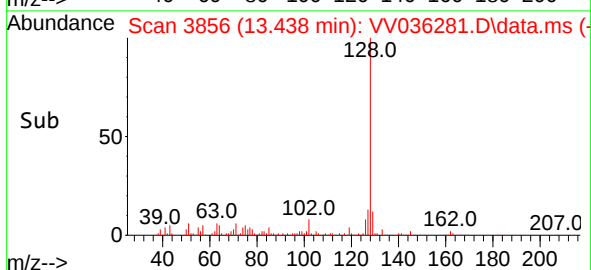
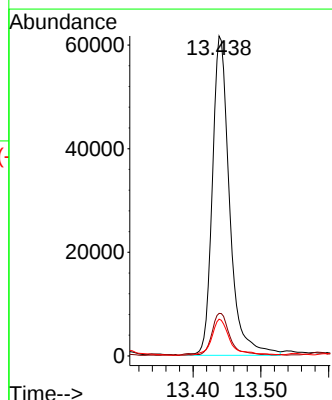
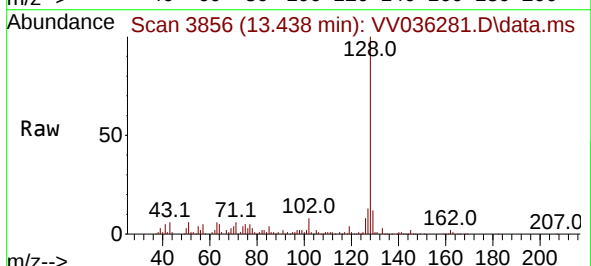
Tgt Ion:128 Resp: 108827

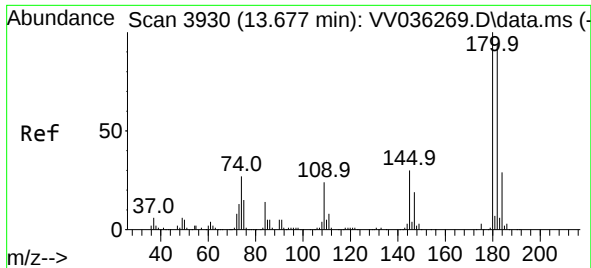
Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 11.4 8.8 13.2





#72
 1,2,3-Trichlorobenzene
 Concen: 3.149 ug/L
 RT: 13.686 min Scan# 3933
 Delta R.T. 0.010 min
 Lab File: VV036281.D
 Acq: 25 Jun 2024 19:28

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK301

Tgt Ion:180 Resp: 345
 Ion Ratio Lower Upper
 180 100
 182 87.8 75.1 112.7
 145 0.0 25.2 37.8#

