

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037579.D
 Acq On : 27 Sep 2024 03:19
 Operator : SY/MD
 Sample : P4185-03
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 03:42:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	646464	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	623697	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	342095	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	242163	42.672	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.340%
7) Chloroethane-d5	1.532	69	193576	43.945	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.900%
11) 1,1-Dichloroethene-d2	2.060	65	104344	44.010	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.020%
21) 2-Butanone-d5	3.793	46	197290	97.606	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.610%
24) Chloroform-d	4.243	84	438360	43.418	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.840%
26) 1,2-Dichloroethane-d4	4.937	65	261009	44.166	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.340%
32) Benzene-d6	4.953	84	868266	44.488	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.980%
36) 1,2-Dichloropropane-d6	5.982	67	281754	45.337	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.680%
41) Toluene-d8	7.236	98	771454	43.592	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.180%
43) trans-1,3-Dichloroprop...	7.551	79	117712	40.773	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.540%
47) 2-Hexanone-d5	8.024	63	112265	85.549	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.550%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	323952	44.862	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.720%
66) 1,2-Dichlorobenzene-d4	11.555	152	327433	45.422	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.840%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	220042	38.415	ug/L	99
9) Trichlorofluoromethane	1.716	101	9497	1.232	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	3901	0.847	ug/L #	25
12) 1,1-Dichloroethene	2.069	96	148473	34.498	ug/L	92
17) trans-1,2-Dichloroethene	2.690	96	88162	19.363	ug/L	99
19) 1,1-Dichloroethane	3.105	63	4477541	513.274	ug/L	99
20) cis-1,2-Dichloroethene	3.806	96	12604597	2473.867	ug/L	98
27) 1,2-Dichloroethane	5.047	62	19036	2.985	ug/L	98
30) 1,1,1-Trichloroethane	4.503	97	4791973	623.822	ug/L	99
31) Carbon tetrachloride	4.507	117	622960	93.278	ug/L	99
33) Benzene	5.011	78	40849	2.172	ug/L	100
34) Trichloroethene	5.834	95	39840	7.953	ug/L	100
35) Methylcyclohexane	6.043	83	11731	1.522	ug/L	85
42) Toluene	7.314	91	219960	11.280	ug/L	99
45) 1,1,2-Trichloroethane	7.777	97	9610	2.060	ug/L	95
46) Tetrachloroethene	7.902	164	27959	7.300	ug/L	96
48) 2-Hexanone	8.024	43	13893	4.518	ug/L #	71
52) Ethylbenzene	8.940	91	559681	25.498	ug/L	99
53) m,p-Xylene	9.066	106	459696	56.271	ug/L	98

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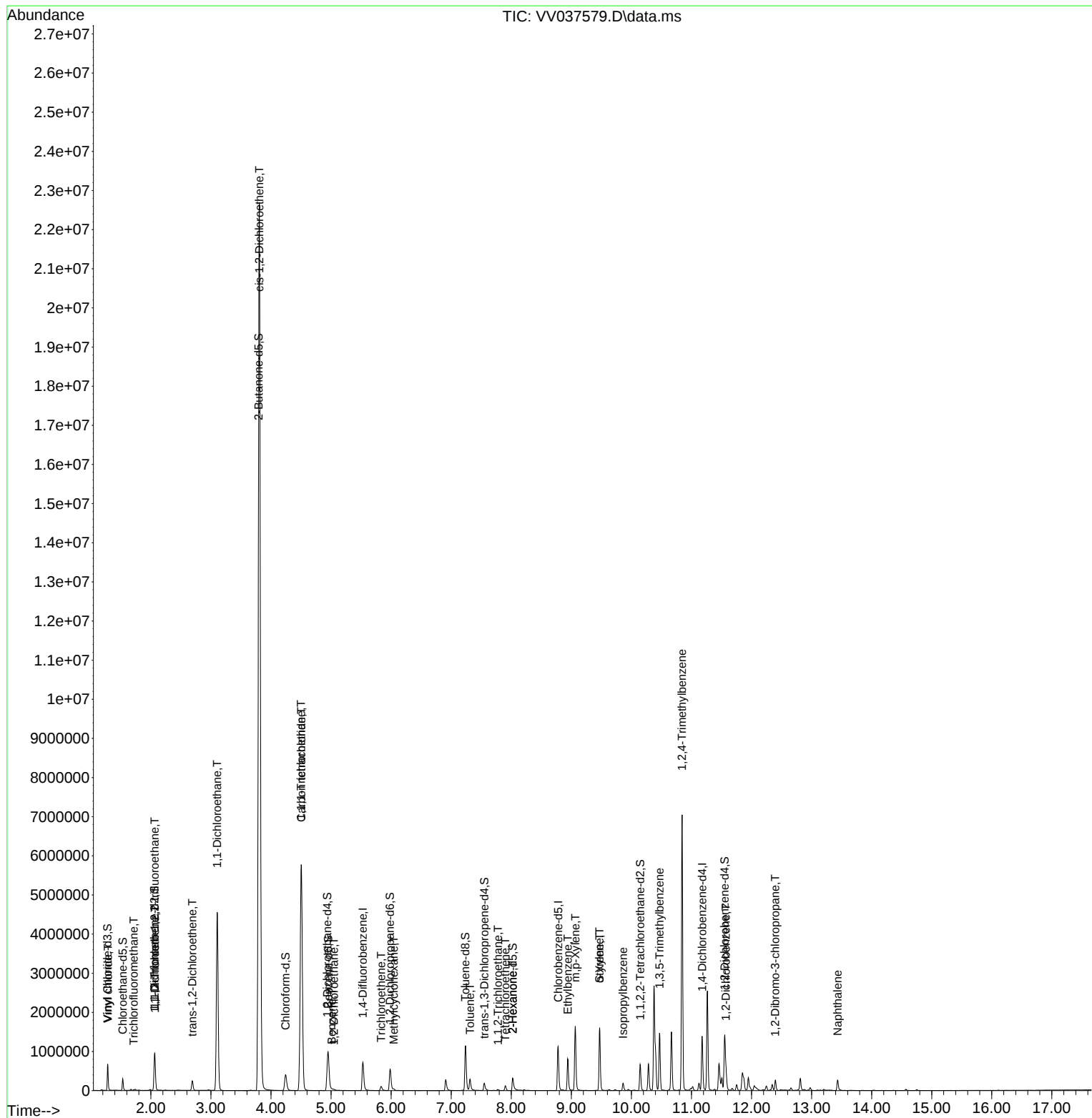
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.471	106	418115	52.425	ug/L	97
55) Styrene	9.471	104	22027	1.586	ug/L #	1
60) Isopropylbenzene	9.863	105	120680	5.426	ug/L	98
62) 1,3,5-Trimethylbenzene	10.471	105	790598	44.962	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	3649063	208.573	ug/L	100
67) 1,2-Dichlorobenzene	11.574	146	14196	1.341	ug/L	89
68) 1,2-Dibromo-3-chloropr...	12.394	75	1580	1.337	ug/L #	1
71) Naphthalene	13.432	128	230196	12.900	ug/L	100

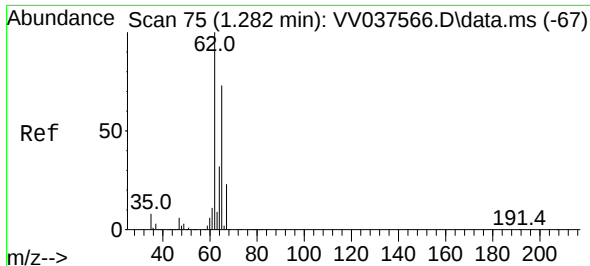
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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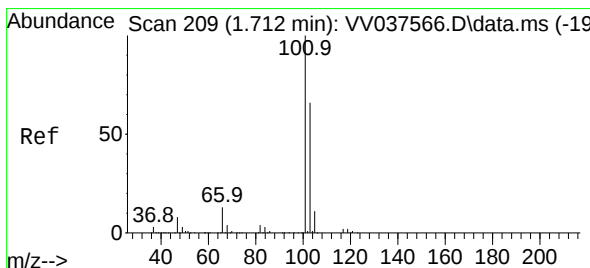
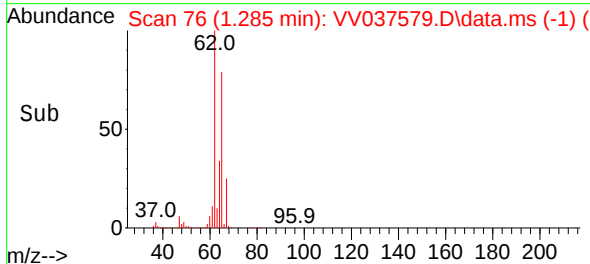
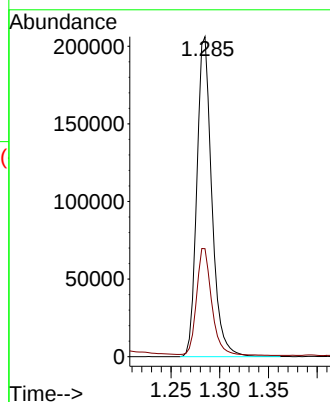
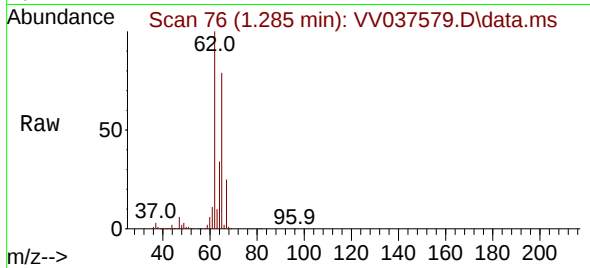




#5
 Vinyl chloride
 Concen: 38.415 ug/L
 RT: 1.285 min Scan# 75
 Delta R.T. 0.003 min
 Lab File: VV037579.D
 Acq: 27 Sep 2024 03:19

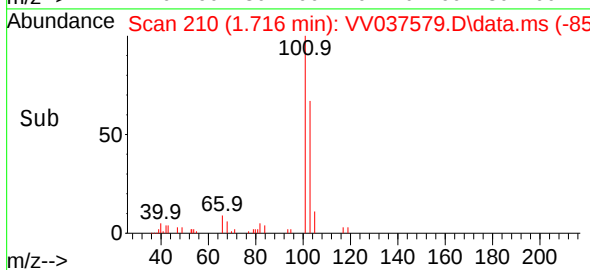
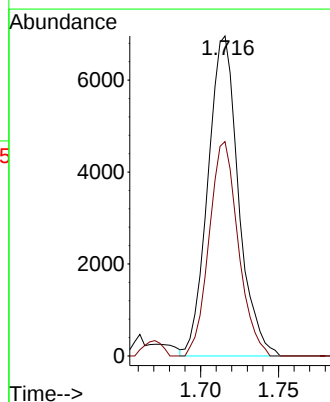
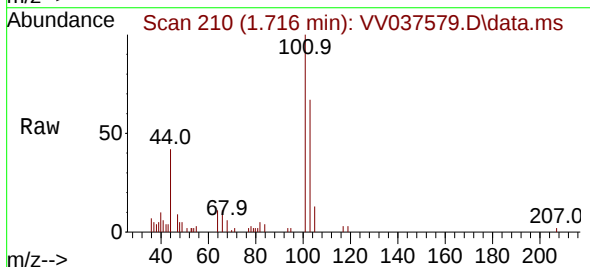
Instrument :
 MSVOA_V
 ClientSampleId :

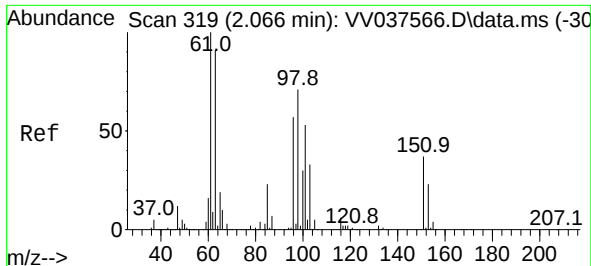
Tgt Ion: 62 Resp: 220042
 Ion Ratio Lower Upper
 62 100
 64 33.7 23.2 43.0



#9
 Trichlorofluoromethane
 Concen: 1.232 ug/L
 RT: 1.716 min Scan# 210
 Delta R.T. 0.003 min
 Lab File: VV037579.D
 Acq: 27 Sep 2024 03:19

Tgt Ion: 101 Resp: 9497
 Ion Ratio Lower Upper
 101 100
 103 63.8 52.2 78.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.847 ug/L

RT: 2.063 min Scan# 319

Delta R.T. -0.003 min

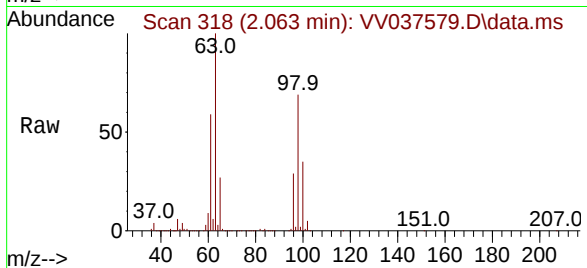
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Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

ClientSampleId :



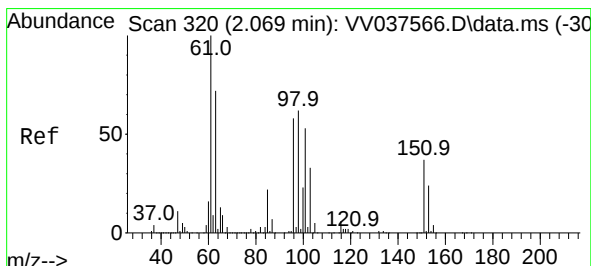
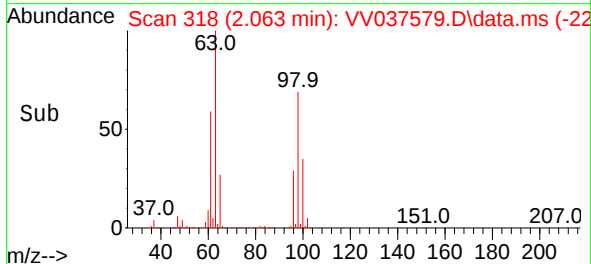
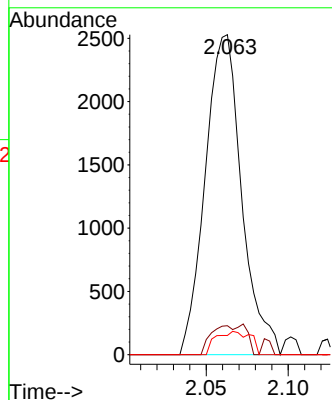
Tgt Ion:101 Resp: 3901

Ion Ratio Lower Upper

101 100

85 5.7 34.6 52.0#

151 0.9 57.5 86.3#



#12

1,1-Dichloroethene

Concen: 34.498 ug/L

RT: 2.069 min Scan# 320

Delta R.T. 0.000 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

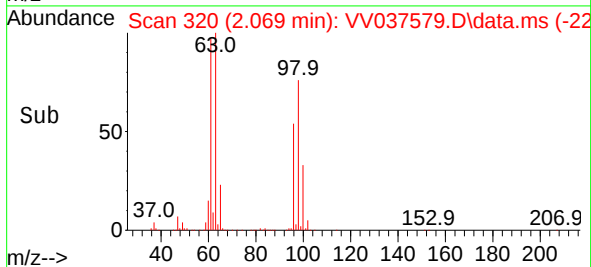
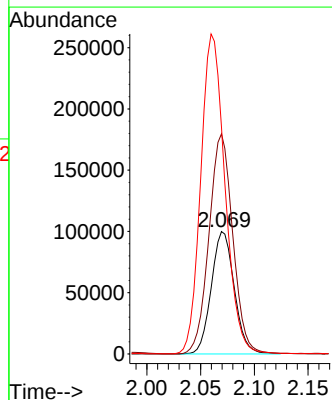
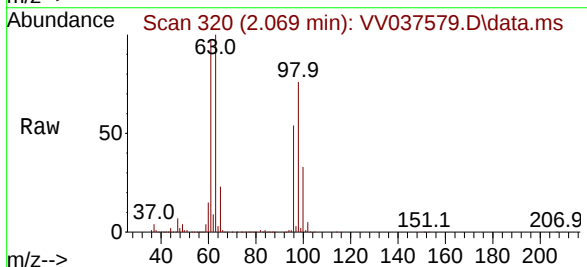
Tgt Ion: 96 Resp: 148473

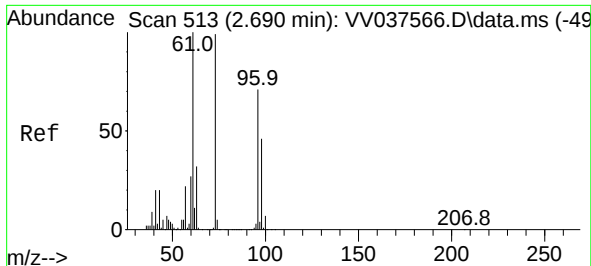
Ion Ratio Lower Upper

96 100

61 179.7 122.6 227.6

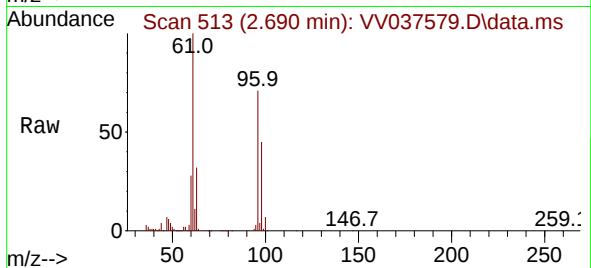
63 185.2 118.0 219.2



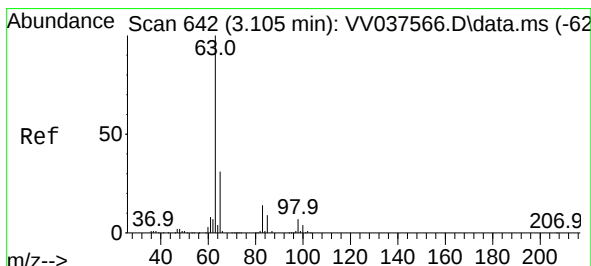
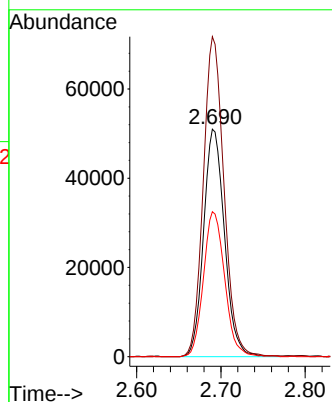
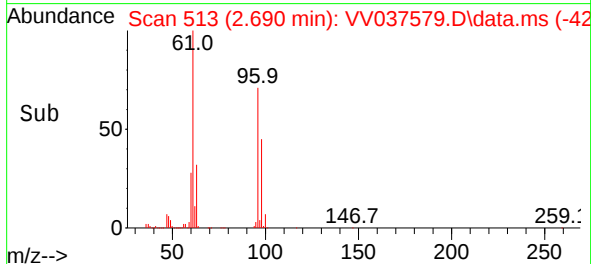


#17
trans-1,2-Dichloroethene
Concen: 19.363 ug/L
RT: 2.690 min Scan# 513
Delta R.T. 0.000 min
Lab File: VV037579.D
Acq: 27 Sep 2024 03:19

Instrument :
MSVOA_V
ClientSampleId :

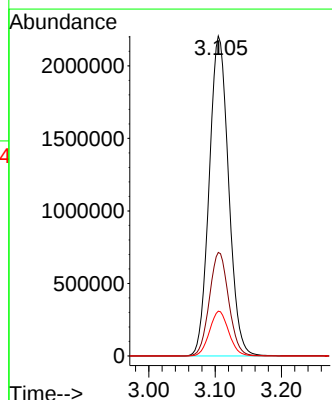
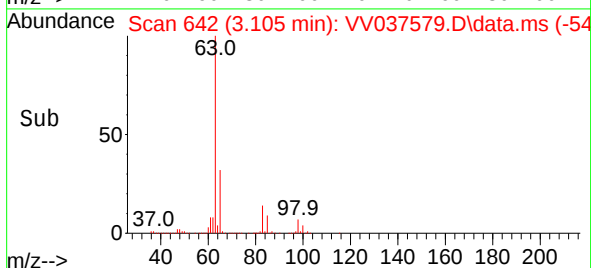
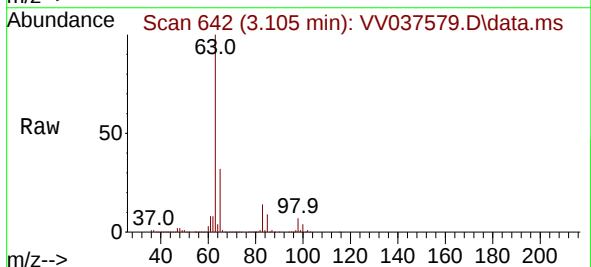


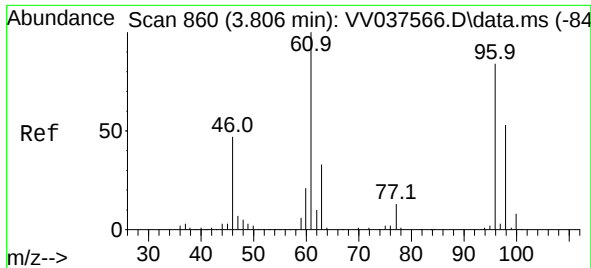
Tgt Ion: 96 Resp: 88162
Ion Ratio Lower Upper
96 100
61 140.6 97.3 180.7
98 63.7 43.9 81.5



#19
1,1-Dichloroethane
Concen: 513.274 ug/L
RT: 3.105 min Scan# 642
Delta R.T. 0.000 min
Lab File: VV037579.D
Acq: 27 Sep 2024 03:19

Tgt Ion: 63 Resp: 4477541
Ion Ratio Lower Upper
63 100
65 32.4 22.4 41.6
83 14.0 9.5 17.7





#20

cis-1,2-Dichloroethene

Concen: 2473.867 ug/L

RT: 3.806 min Scan# 860

Delta R.T. 0.000 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

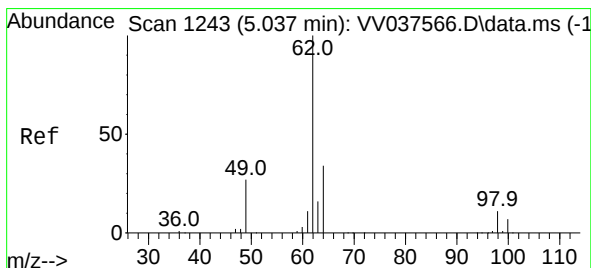
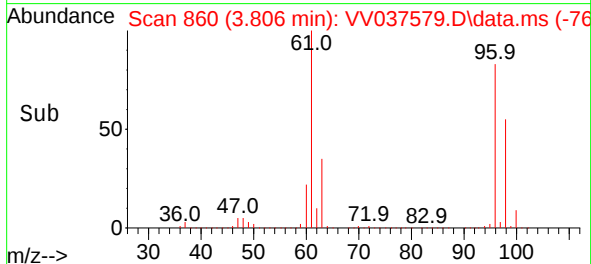
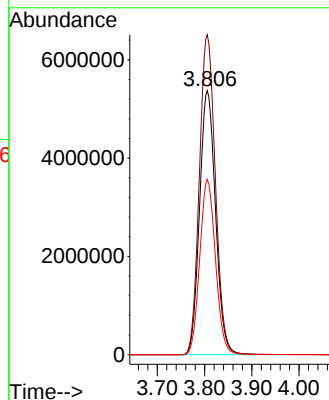
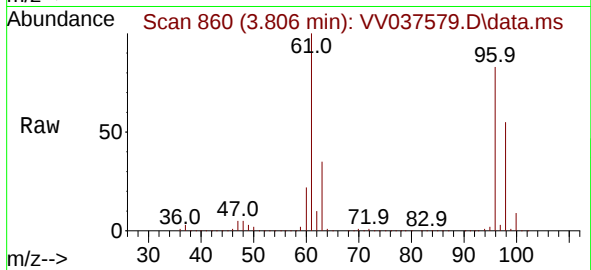
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 96 Resp:12604597

Ion	Ratio	Lower	Upper
96	100		
61	121.1	85.0	157.8
98	66.3	44.2	82.0



#27

1,2-Dichloroethane

Concen: 2.985 ug/L

RT: 5.047 min Scan# 1246

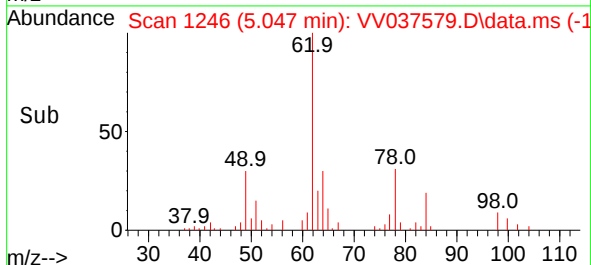
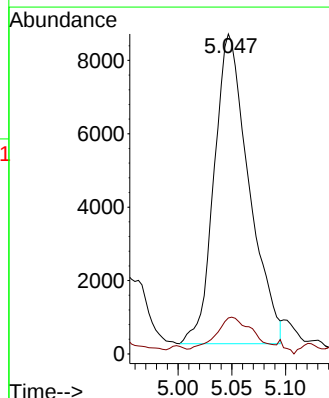
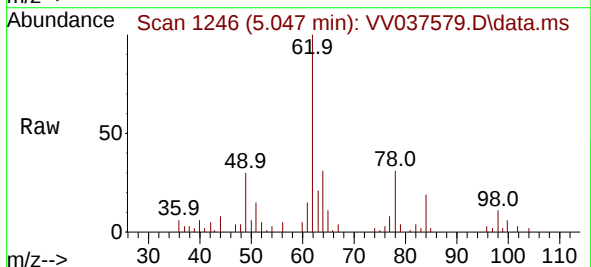
Delta R.T. 0.010 min

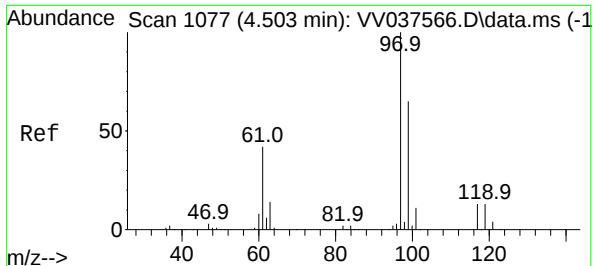
Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Tgt Ion: 62 Resp: 19036

Ion	Ratio	Lower	Upper
62	100		
98	11.2	8.4	12.6





#30

1,1,1-Trichloroethane

Concen: 623.822 ug/L

RT: 4.503 min Scan# 1077

Delta R.T. 0.000 min

Lab File: VV037579.D

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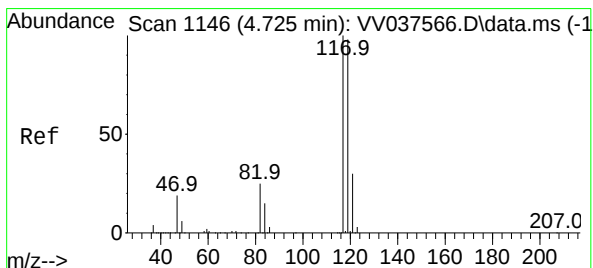
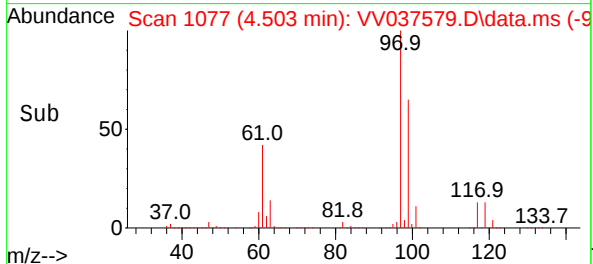
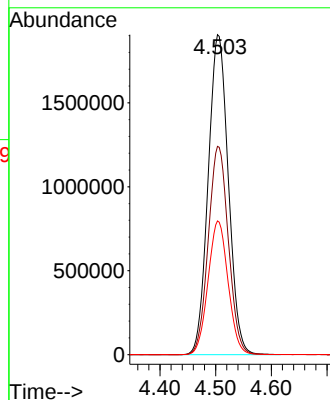
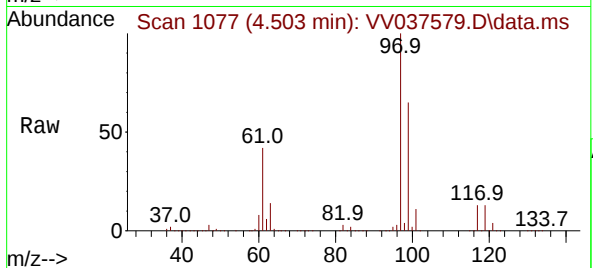
Tgt Ion: 97 Resp: 4791973

Ion Ratio Lower Upper

97 100

99 65.1 51.8 77.6

61 41.5 33.6 50.4



#31

Carbon tetrachloride

Concen: 93.278 ug/L

RT: 4.507 min Scan# 1078

Delta R.T. -0.219 min

Lab File: VV037579.D

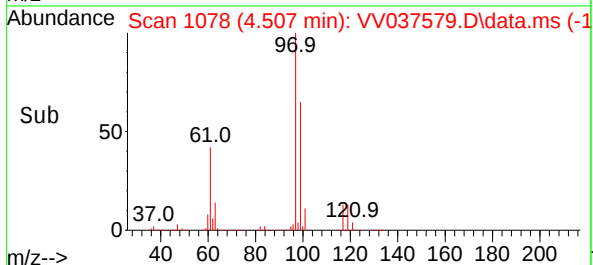
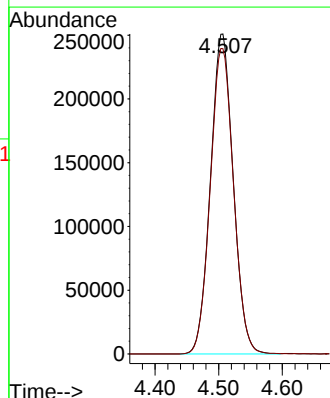
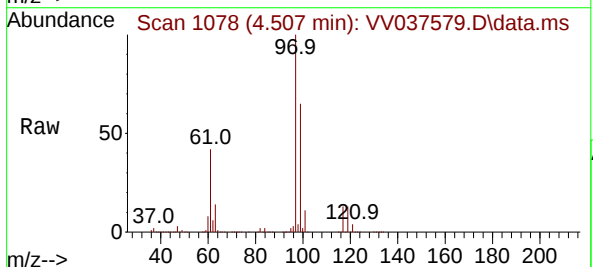
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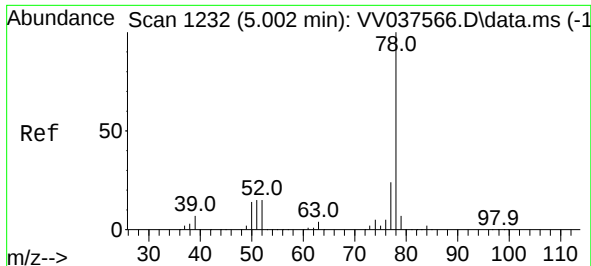
Tgt Ion: 117 Resp: 622960

Ion Ratio Lower Upper

117 100

119 97.5 76.9 115.3





#33

Benzene

Concen: 2.172 ug/L

RT: 5.011 min Scan# 1491

Delta R.T. 0.010 min

Lab File: VV037579.D

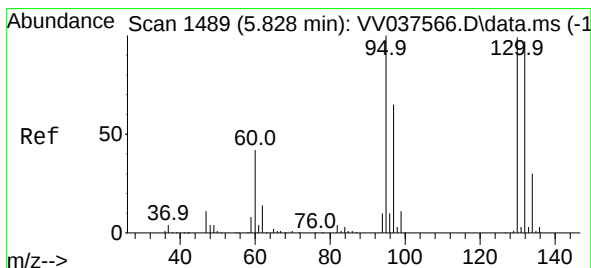
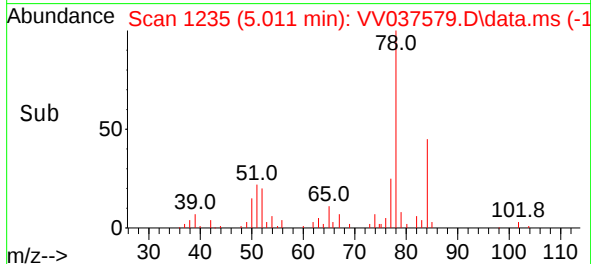
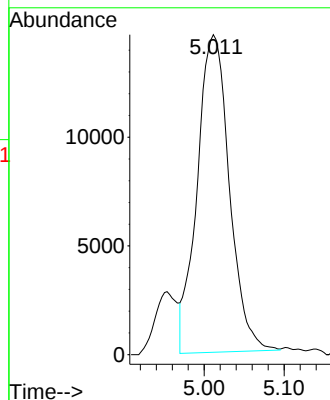
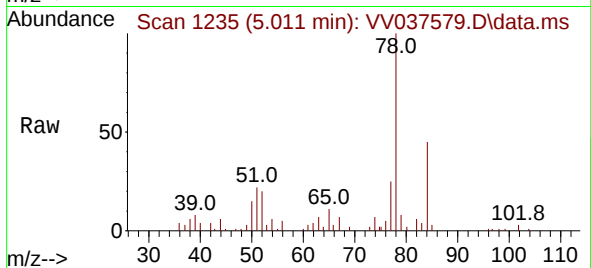
Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 40849



#34

Trichloroethene

Concen: 7.953 ug/L

RT: 5.834 min Scan# 1491

Delta R.T. 0.006 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Tgt Ion: 95 Resp: 39840

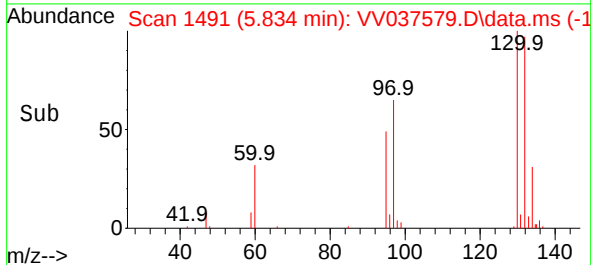
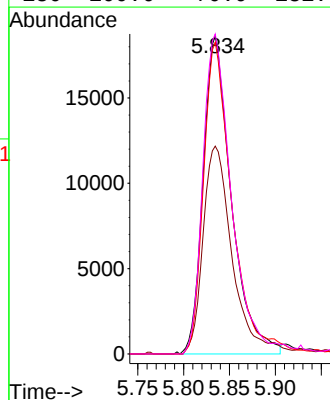
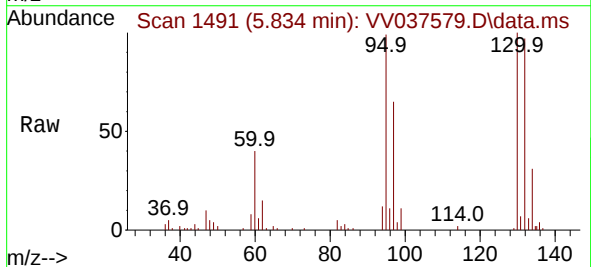
Ion Ratio Lower Upper

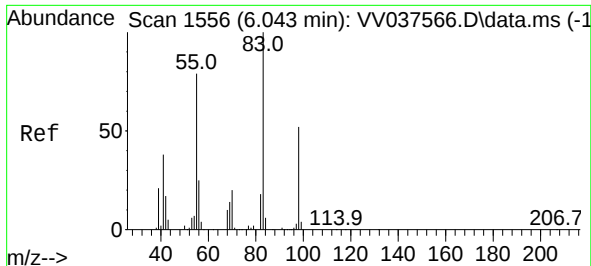
95 100

97 65.4 46.3 85.9

132 98.0 68.6 127.4

130 100.6 70.9 131.7





#35

Methylcyclohexane

Concen: 1.522 ug/L

RT: 6.043 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

ClientSampleId :

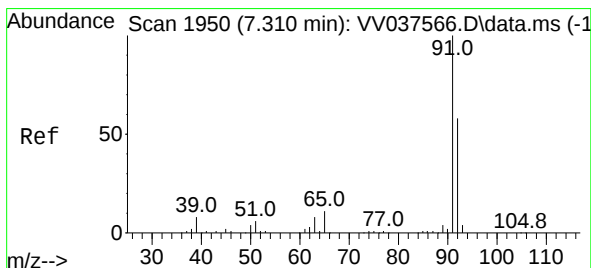
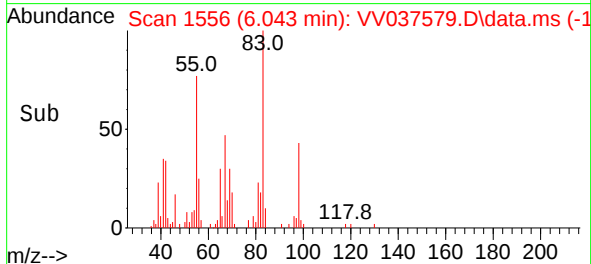
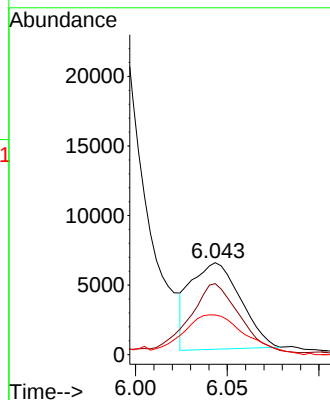
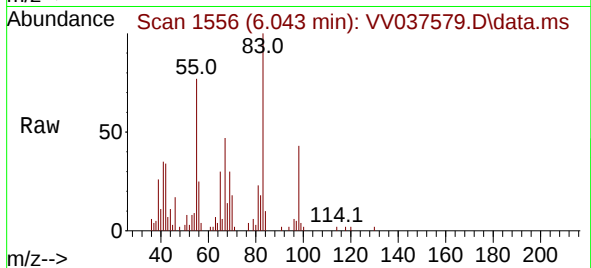
Tgt Ion: 83 Resp: 11731

Ion Ratio Lower Upper

83 100

55 85.6 57.9 86.9

98 57.9 39.3 58.9



#42

Toluene

Concen: 11.280 ug/L

RT: 7.314 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV037579.D

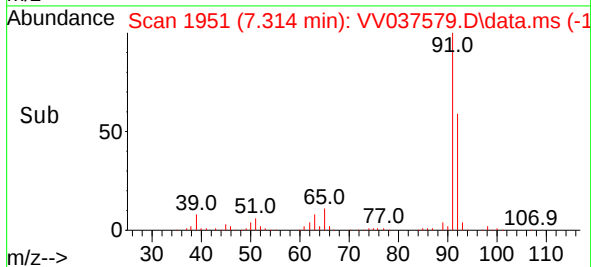
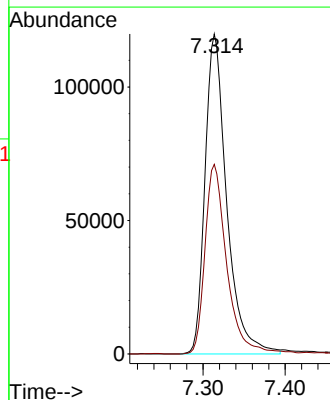
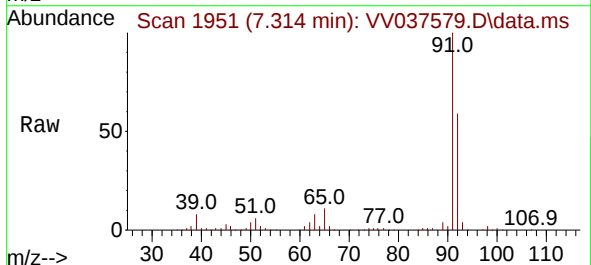
Acq: 27 Sep 2024 03:19

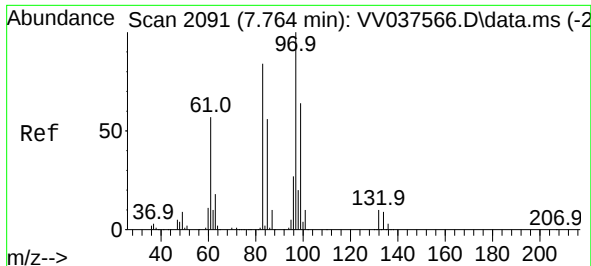
Tgt Ion: 91 Resp: 219960

Ion Ratio Lower Upper

91 100

92 59.2 41.1 76.3





#45

1,1,2-Trichloroethane

Concen: 2.060 ug/L

RT: 7.777 min Scan# 2091

Delta R.T. 0.013 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 9610

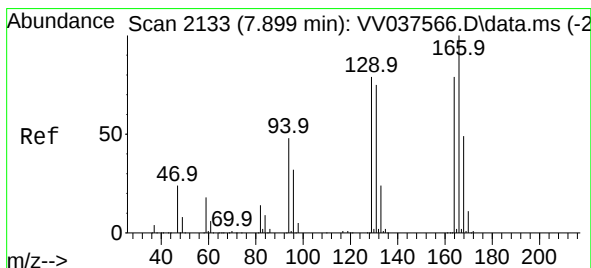
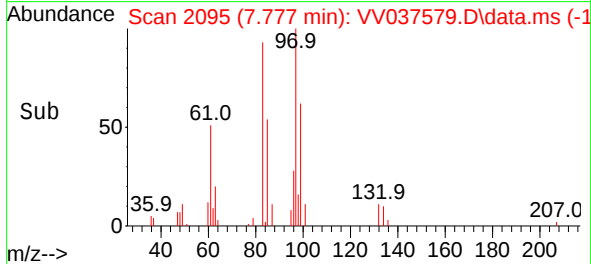
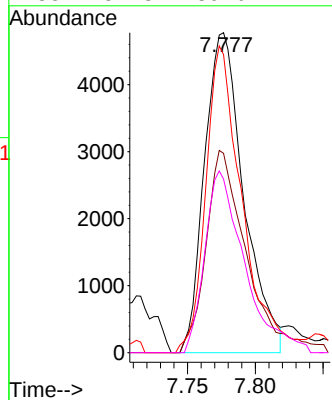
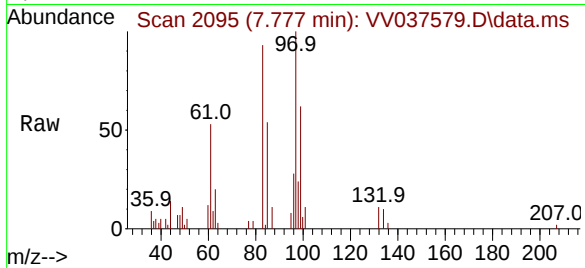
Ion Ratio Lower Upper

97 100

99 62.3 44.1 81.9

83 93.2 59.3 110.1

85 54.3 39.0 72.4



#46

Tetrachloroethene

Concen: 7.300 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.003 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Tgt Ion:164 Resp: 27959

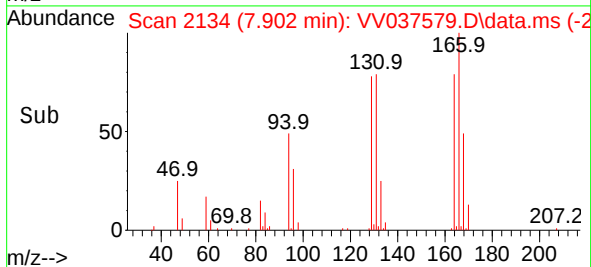
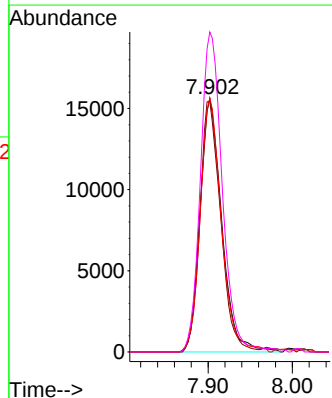
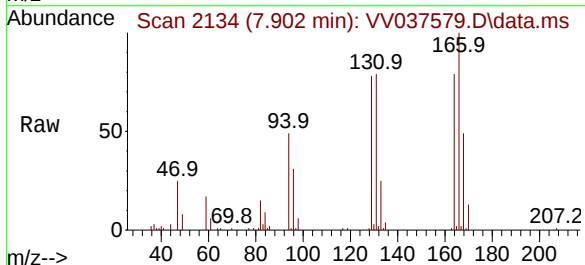
Ion Ratio Lower Upper

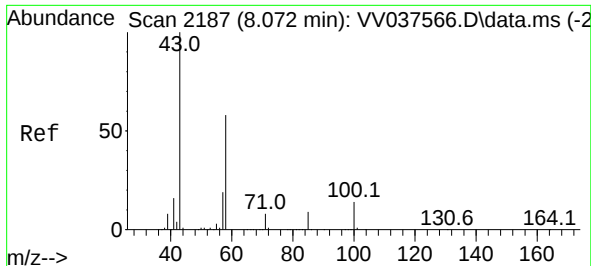
164 100

129 98.9 68.2 126.6

131 100.3 66.1 122.8

166 126.3 91.1 169.1





#48

2-Hexanone

Concen: 4.518 ug/L

RT: 8.024 min Scan# 2187

Delta R.T. -0.048 min

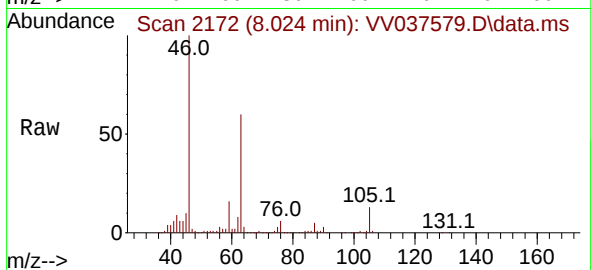
Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 43 Resp: 13893

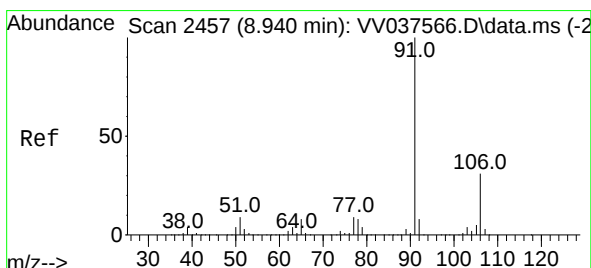
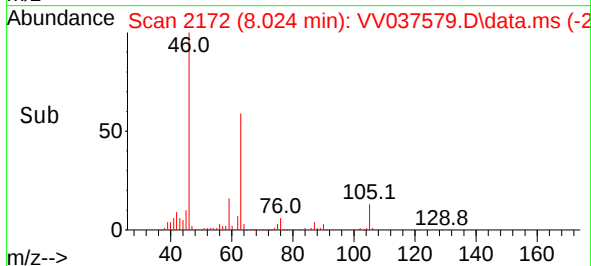
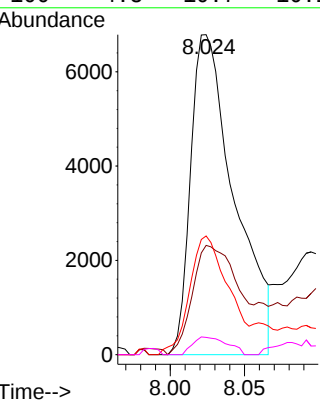
Ion Ratio Lower Upper

43 100

58 36.0 46.5 69.7#

57 33.1 15.1 22.7#

100 4.3 10.7 16.1#



#52

Ethylbenzene

Concen: 25.498 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. 0.000 min

Lab File: VV037579.D

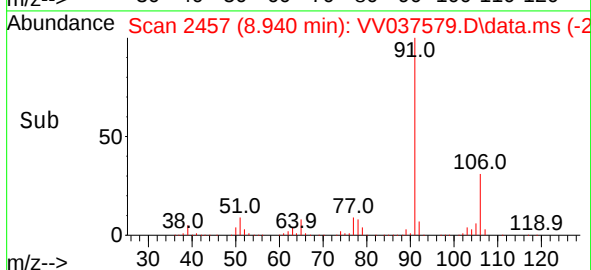
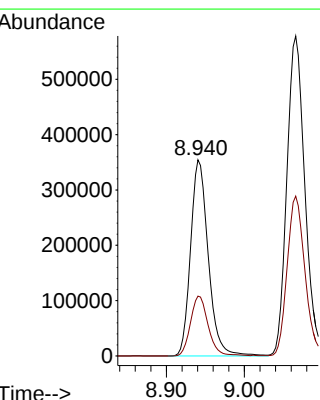
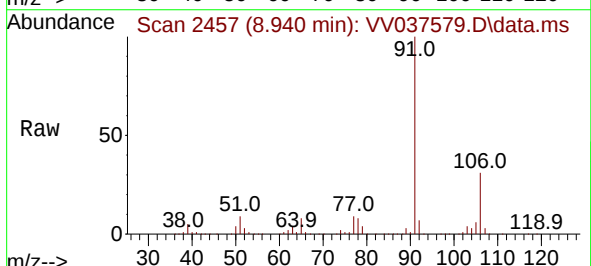
Acq: 27 Sep 2024 03:19

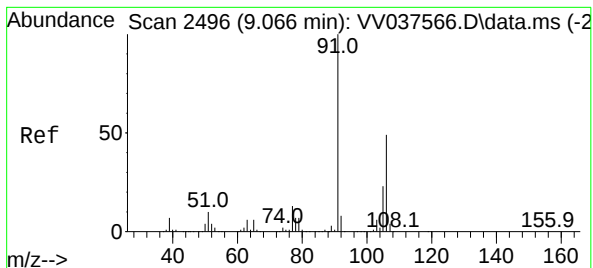
Tgt Ion: 91 Resp: 559681

Ion Ratio Lower Upper

91 100

106 30.5 21.9 40.7





#53

m,p-Xylene

Concen: 56.271 ug/L

RT: 9.066 min Scan# 2496

Delta R.T. 0.000 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

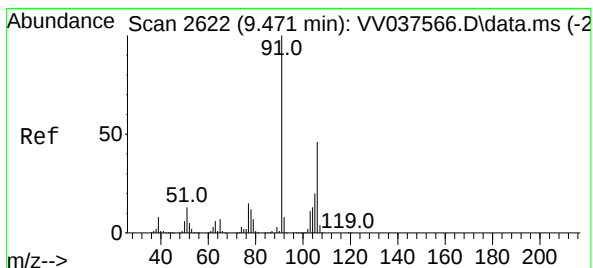
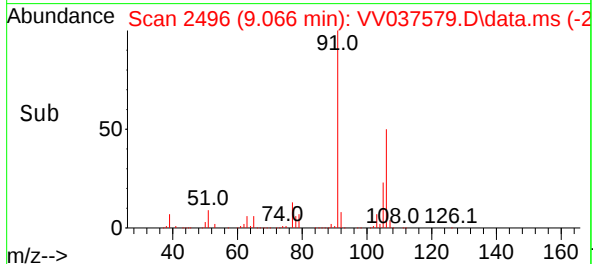
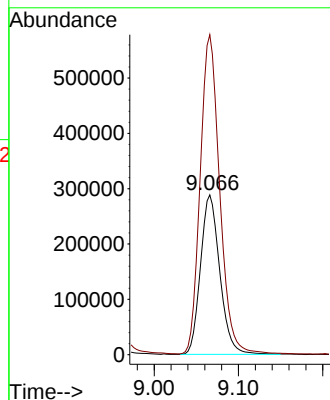
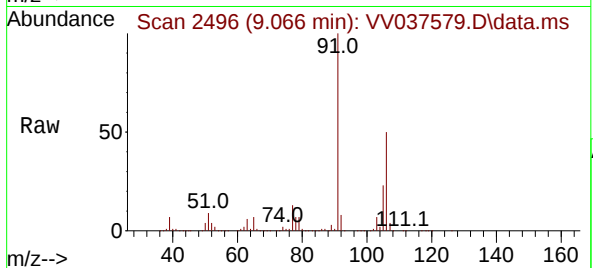
ClientSampleId :

Tgt Ion:106 Resp: 459696

Ion Ratio Lower Upper

106 100

91 200.1 142.0 263.6



#54

o-Xylene

Concen: 52.425 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. 0.000 min

Lab File: VV037579.D

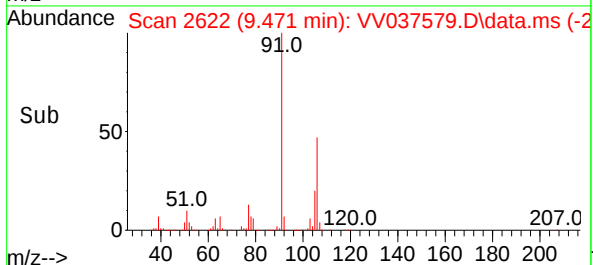
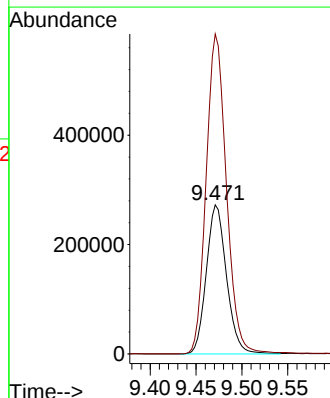
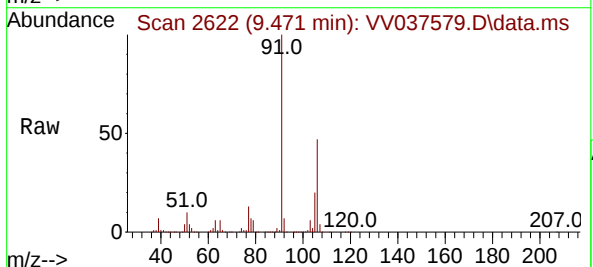
Acq: 27 Sep 2024 03:19

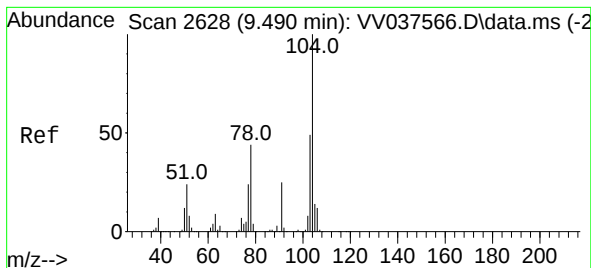
Tgt Ion:106 Resp: 418115

Ion Ratio Lower Upper

106 100

91 214.5 153.9 285.9





#55

Styrene

Concen: 1.586 ug/L

RT: 9.471 min Scan# 2

Delta R.T. -0.019 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

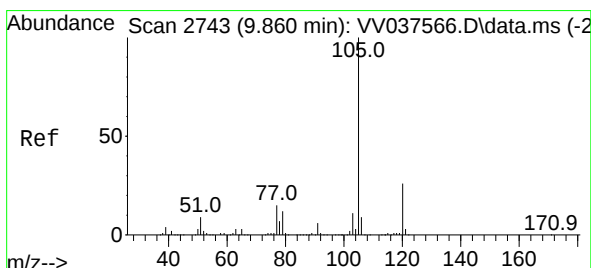
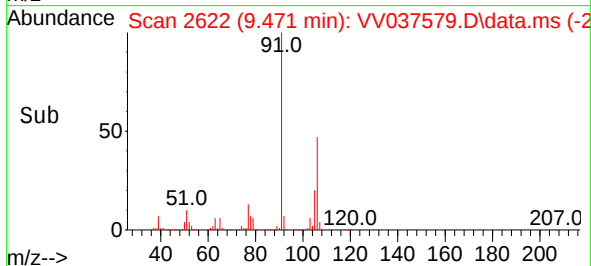
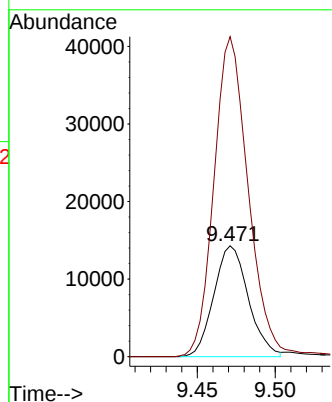
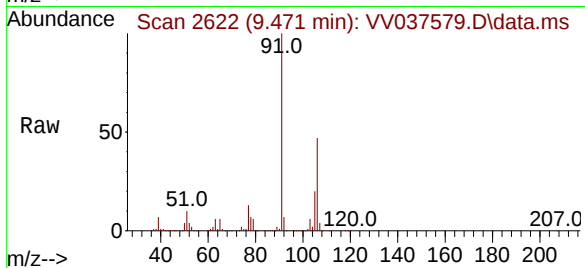
ClientSampleId :

Tgt Ion:104 Resp: 22027

Ion Ratio Lower Upper

104 100

78 288.4 30.0 55.6#



#60

Isopropylbenzene

Concen: 5.426 ug/L

RT: 9.863 min Scan# 2744

Delta R.T. 0.003 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

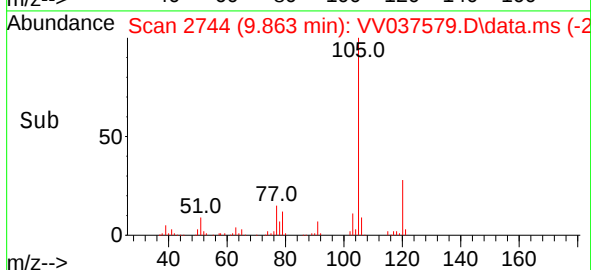
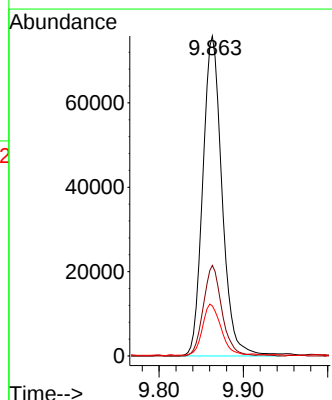
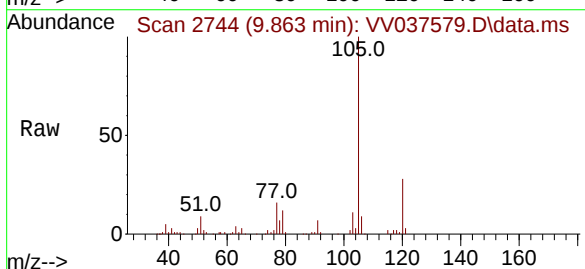
Tgt Ion:105 Resp: 120680

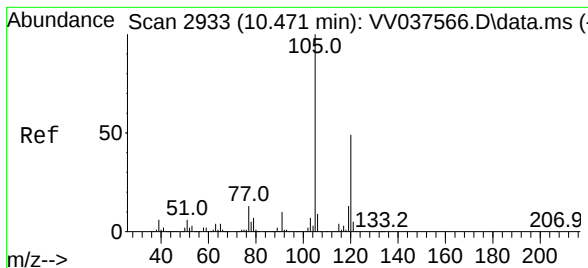
Ion Ratio Lower Upper

105 100

120 27.4 20.7 31.1

77 15.2 12.2 18.2





#62

1,3,5-Trimethylbenzene

Concen: 44.962 ug/L

RT: 10.471 min Scan# 2933

Delta R.T. 0.000 min

Lab File: VV037579.D

Acq: 27 Sep 2024 03:19

Instrument :

MSVOA_V

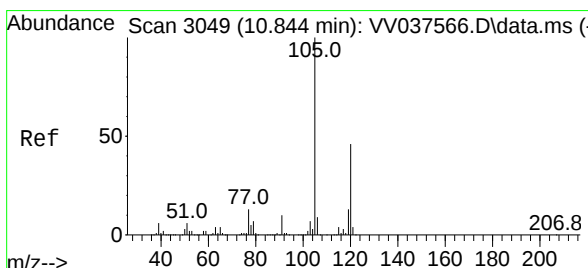
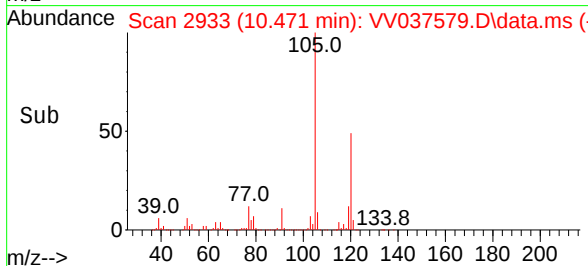
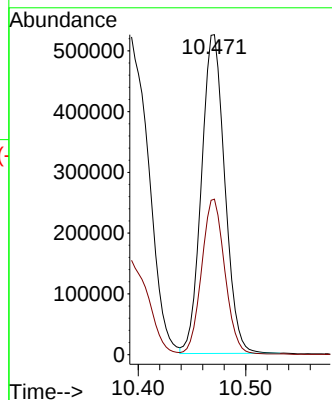
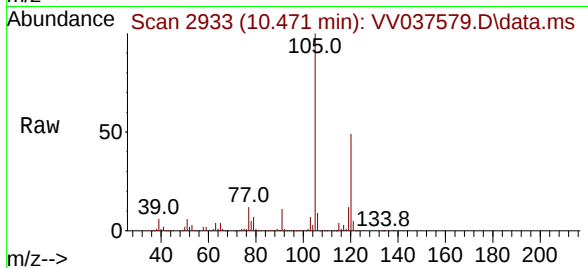
ClientSampleId :

Tgt Ion:105 Resp: 790598

Ion Ratio Lower Upper

105 100

120 48.2 39.3 58.9



#63

1,2,4-Trimethylbenzene

Concen: 208.573 ug/L

RT: 10.844 min Scan# 3049

Delta R.T. 0.000 min

Lab File: VV037579.D

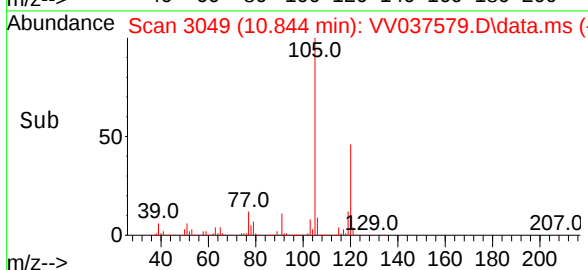
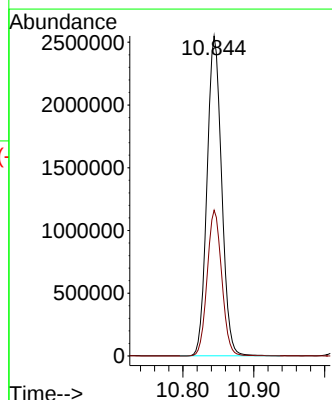
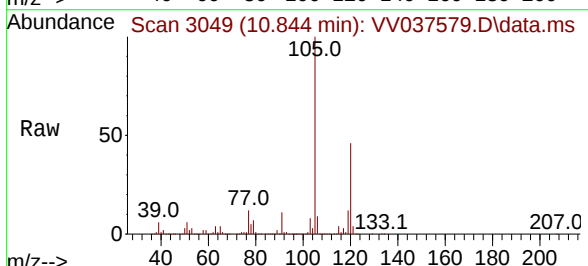
Acq: 27 Sep 2024 03:19

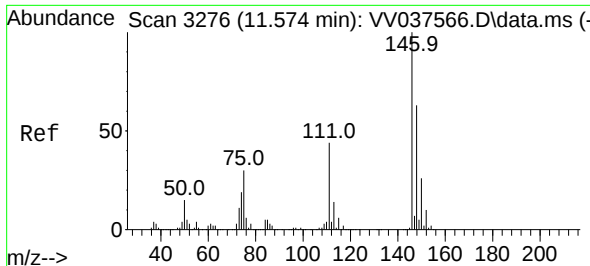
Tgt Ion:105 Resp: 3649063

Ion Ratio Lower Upper

105 100

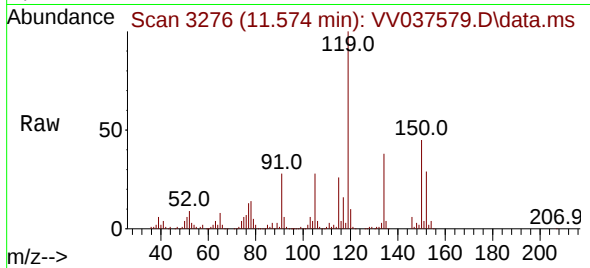
120 45.4 36.2 54.2



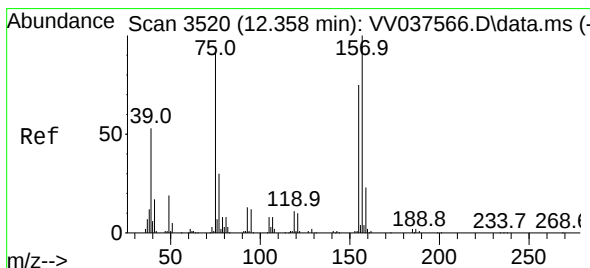
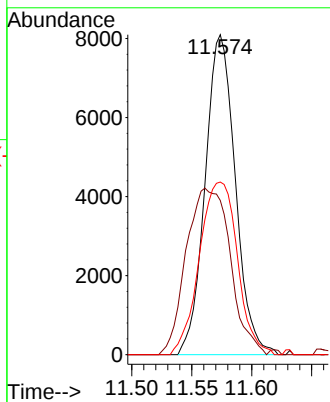
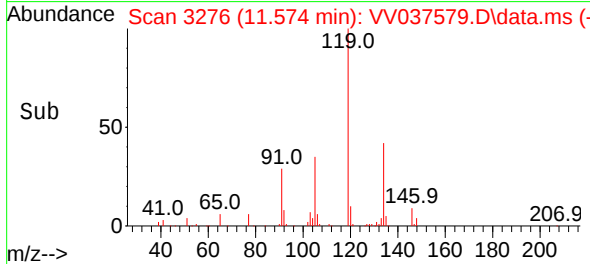


#67
1,2-Dichlorobenzene
Concen: 1.341 ug/L
RT: 11.574 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV037579.D
Acq: 27 Sep 2024 03:19

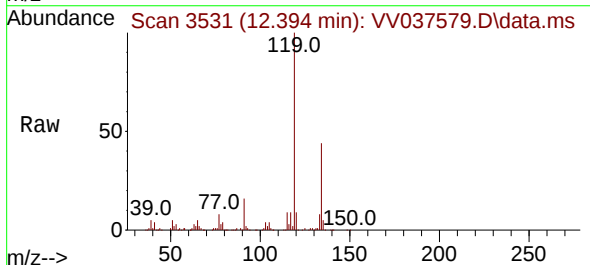
Instrument :
MSVOA_V
ClientSampleId :



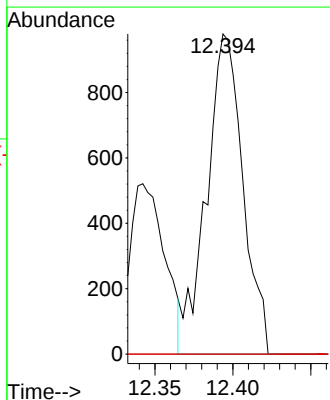
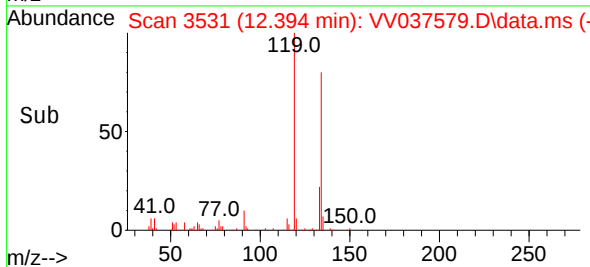
Tgt Ion:146 Resp: 14196
Ion Ratio Lower Upper
146 100
111 48.2 34.2 51.2
148 53.9 50.9 76.3

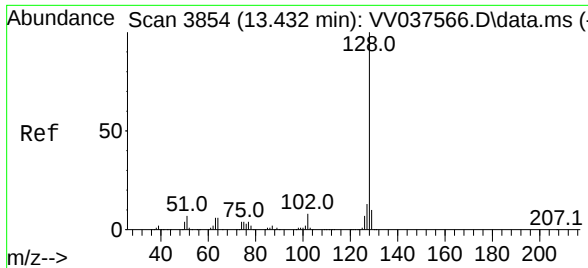


#68
1,2-Dibromo-3-chloropropane
Concen: 1.337 ug/L
RT: 12.394 min Scan# 3531
Delta R.T. 0.035 min
Lab File: VV037579.D
Acq: 27 Sep 2024 03:19



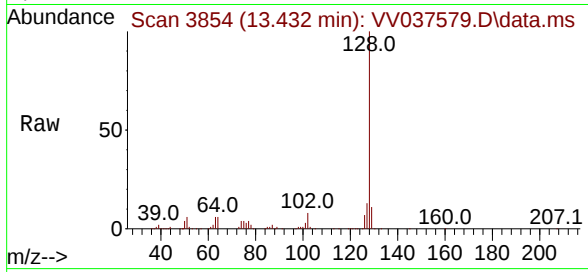
Tgt Ion: 75 Resp: 1580
Ion Ratio Lower Upper
75 100
155 0.0 66.2 99.4#
157 0.0 87.3 130.9#





#71
Naphthalene
Concen: 12.900 ug/L
RT: 13.432 min Scan# 3854
Delta R.T. 0.000 min
Lab File: VV037579.D
Acq: 27 Sep 2024 03:19

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 230196
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.7 8.5 12.7

