

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092324\
 Data File : VV037482.D
 Acq On : 23 Sep 2024 15:12
 Operator : SY/MD
 Sample : P4024-01ME 2X
 Misc : 6.18G/5mL/100ul/5mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 24 04:00:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM082624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 24 03:56:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	669771	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	655042	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	396407	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	246925	40.302	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.600%
7) Chloroethane-d5	1.503	69	106565	22.505	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	45.020%#
11) 1,1-Dichloroethene-d2	2.050	65	107484	41.740	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.480%
21) 2-Butanone-d5	3.793	46	210752	88.827	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.830%
24) Chloroform-d	4.239	84	447410	46.659	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.320%
26) 1,2-Dichloroethane-d4	4.931	65	273554	45.301	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.600%
32) Benzene-d6	4.950	84	922249	46.614	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.220%
36) 1,2-Dichloropropane-d6	5.982	67	301735	48.692	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.380%
41) Toluene-d8	7.236	98	830670	46.521	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.040%
43) trans-1,3-Dichloroprop...	7.548	79	133902	46.706	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.420%
47) 2-Hexanone-d5	8.024	63	187923	111.116	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.120%
56) 1,1,2,2-Tetrachloroeth...	10.275	84	16624	2.212	ug/L	0.13
Spiked Amount	50.000	Range	65 - 120	Recovery	=	4.420%#
66) 1,2-Dichlorobenzene-d4	11.554	152	394641	49.708	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.420%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.050	101	3419	0.737	ug/L #	26
29) Cyclohexane	4.564	56	45015	5.845	ug/L #	64
30) 1,1,1-Trichloroethane	4.506	97	38278	5.079	ug/L	98
33) Benzene	5.011	78	26543	1.404	ug/L	100
34) Trichloroethene	5.831	95	26625	5.336	ug/L	97
35) Methylcyclohexane	6.040	83	109873	13.553	ug/L	93
40) 4-Methyl-2-pentanone	7.178	43	58172	11.290	ug/L #	81
42) Toluene	7.307	91	942758	47.898	ug/L	99
45) 1,1,2-Trichloroethane	7.709	97	46422	9.840	ug/L #	21
46) Tetrachloroethene	7.902	164	26923	7.520	ug/L	97
48) 2-Hexanone	8.008	43	774959	194.482	ug/L #	46
52) Ethylbenzene	8.940	91	635970	28.606	ug/L	99
53) m,p-Xylene	9.066	106	991749	120.398	ug/L	100
54) o-Xylene	9.471	106	735646	91.212	ug/L	100
55) Styrene	9.471	104	37203	2.658	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.162	83	414335	59.299	ug/L #	95
60) Isopropylbenzene	9.860	105	854858	33.265	ug/L	99
62) 1,3,5-Trimethylbenzene	10.474	105	4323994	205.653	ug/L	99
63) 1,2,4-Trimethylbenzene	10.850	105	11056703	526.944	ug/L	96

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QLast Update : Tue Sep 24 03:56:17 2024
Response via : Initial Calibration

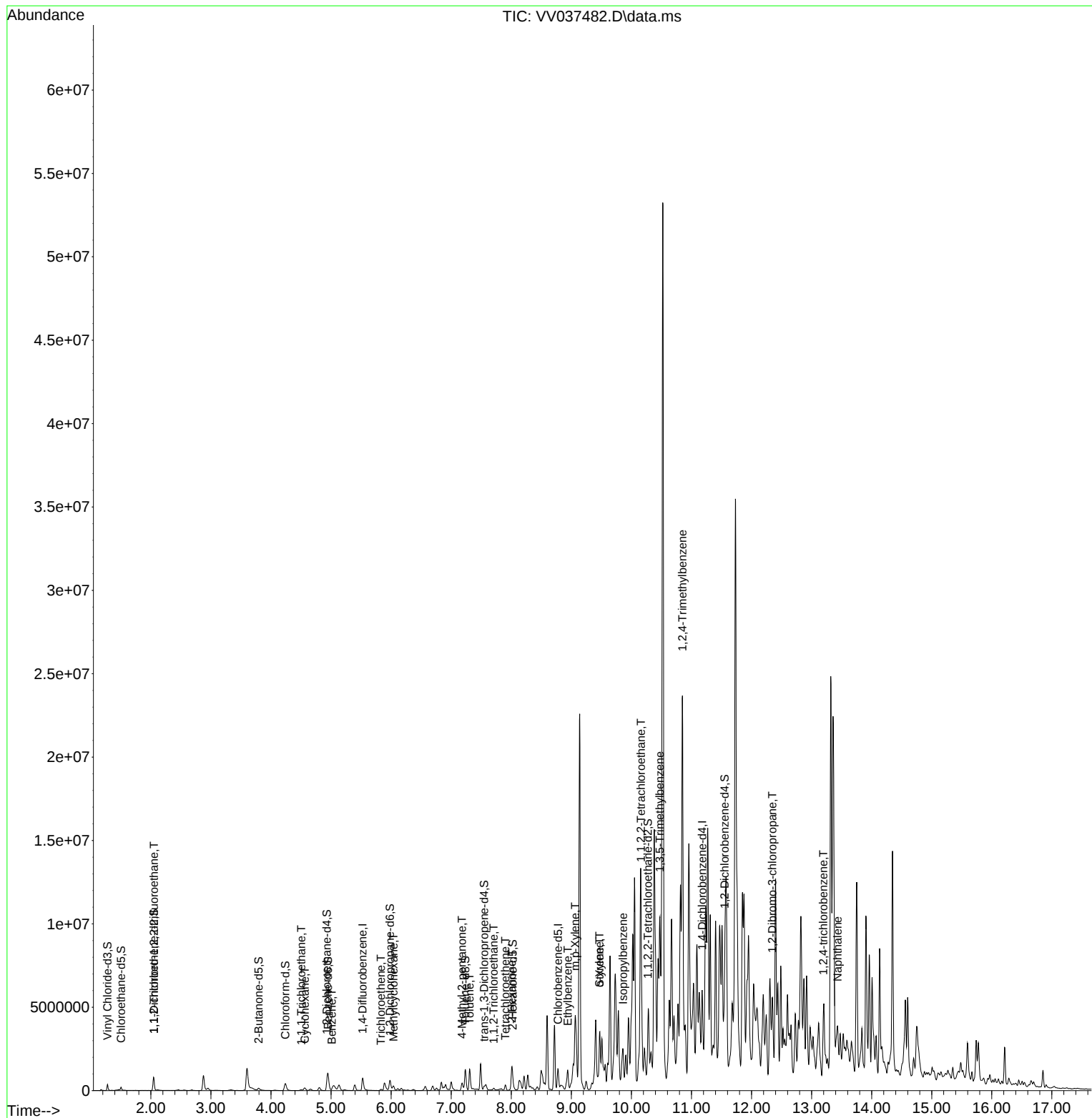
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.345	75	17565	11.422	ug/L #	34
70) 1,2,4-trichlorobenzene	13.194	180	13250	1.704	ug/L #	1
71) Naphthalene	13.432	128	1621498	72.223	ug/L	97

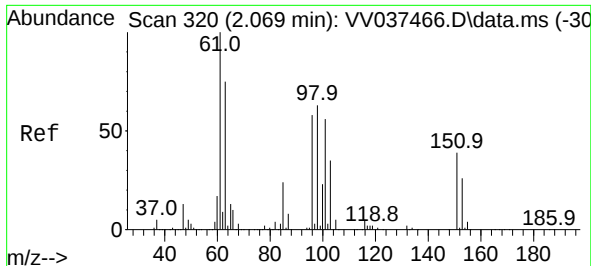
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.737 ug/L

RT: 2.050 min Scan# 314

Delta R.T. -0.019 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

ClientSampleId :

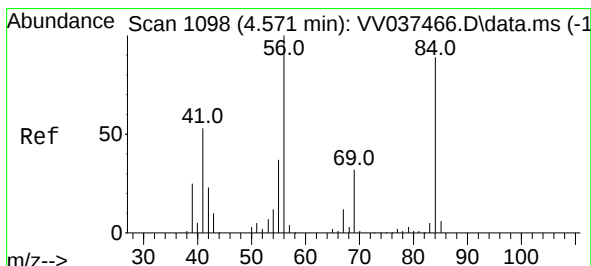
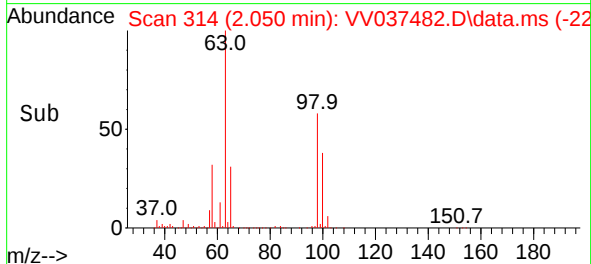
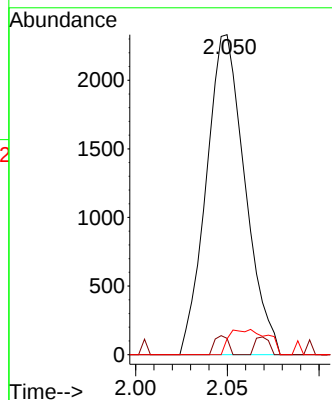
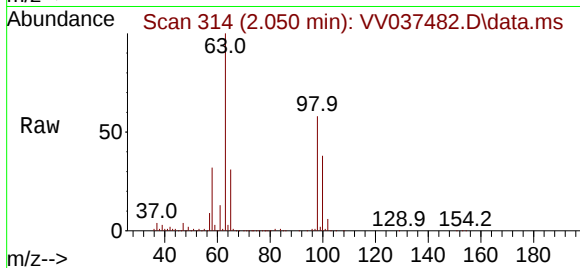
Tgt Ion:101 Resp: 3419

Ion Ratio Lower Upper

101 100

85 2.1 35.6 53.4#

151 3.6 55.0 82.4#



#29

Cyclohexane

Concen: 5.845 ug/L

RT: 4.564 min Scan# 1096

Delta R.T. -0.007 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

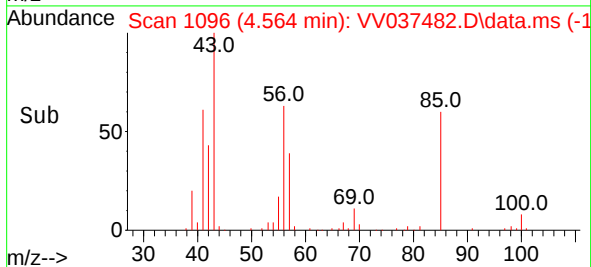
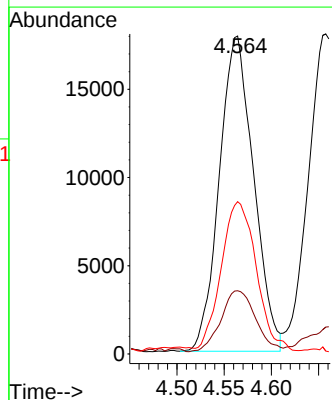
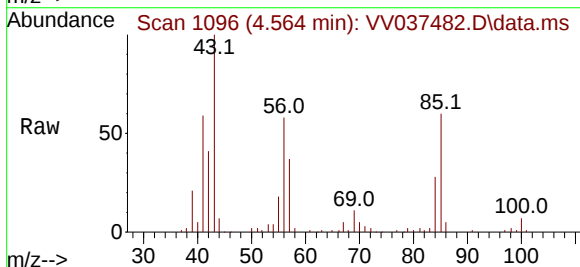
Tgt Ion: 56 Resp: 45015

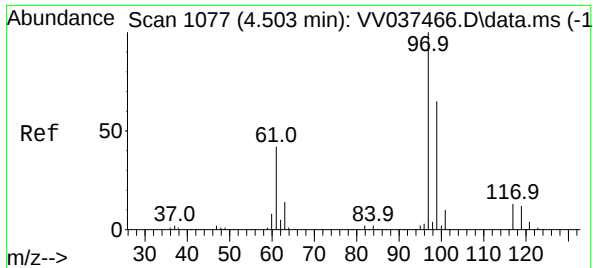
Ion Ratio Lower Upper

56 100

69 19.6 24.2 36.4#

84 48.2 69.8 104.8#

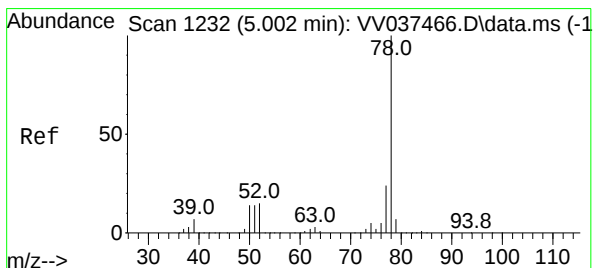
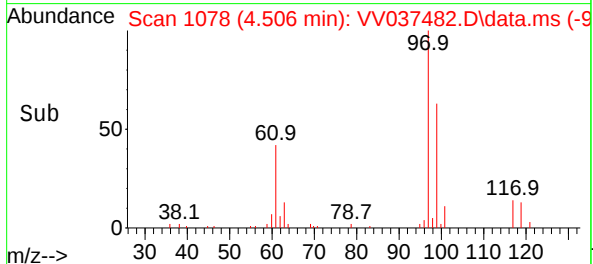
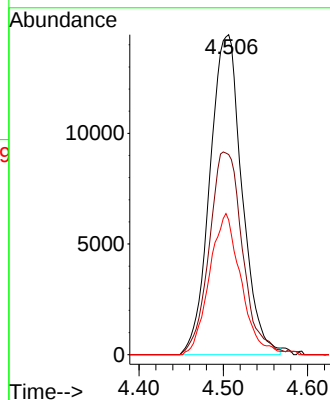
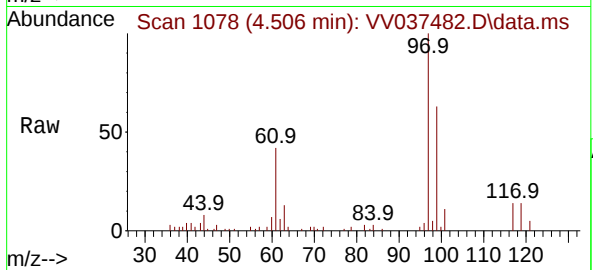




#30
1,1,1-Trichloroethane
Concen: 5.079 ug/L
RT: 4.506 min Scan# 1077
Delta R.T. 0.003 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

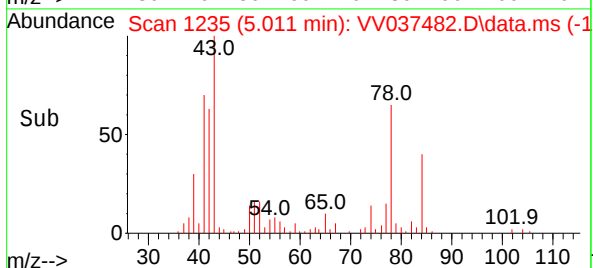
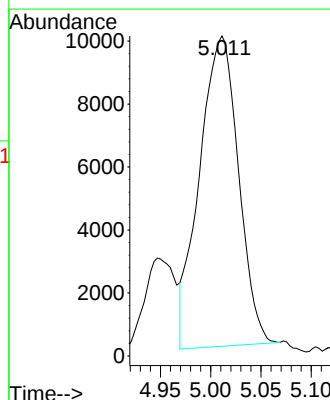
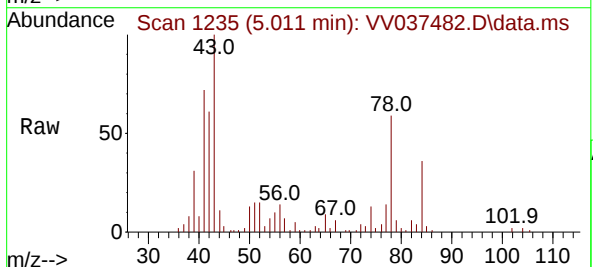
Instrument :
MSVOA_V
ClientSampleId :

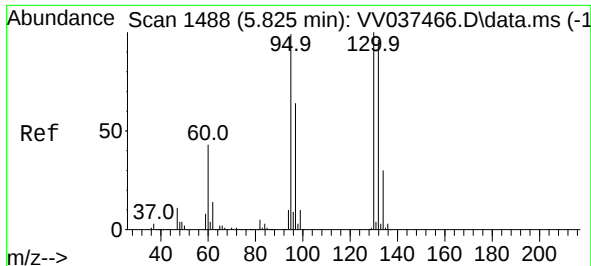
Tgt Ion: 97 Resp: 38278
Ion Ratio Lower Upper
97 100
99 65.6 51.6 77.4
61 43.3 35.8 53.6



#33
Benzene
Concen: 1.404 ug/L
RT: 5.011 min Scan# 1235
Delta R.T. 0.010 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

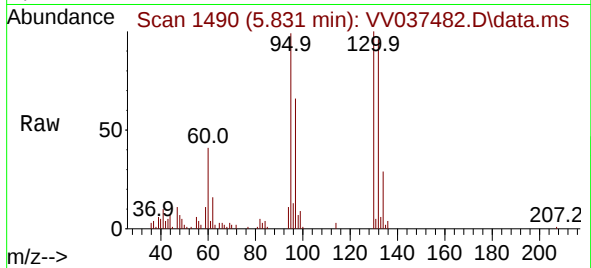
Tgt Ion: 78 Resp: 26543





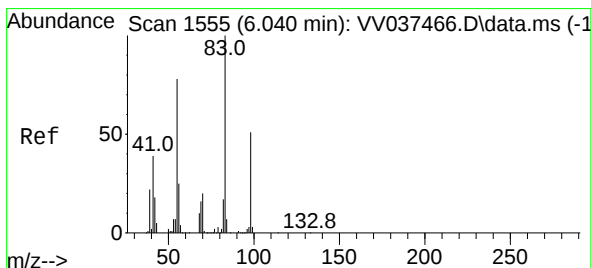
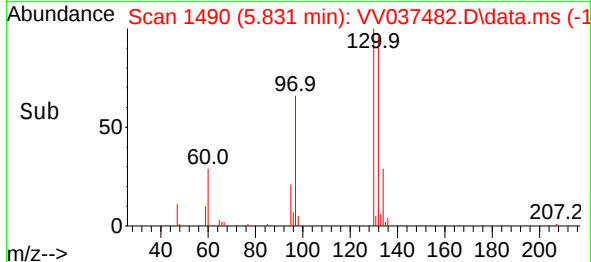
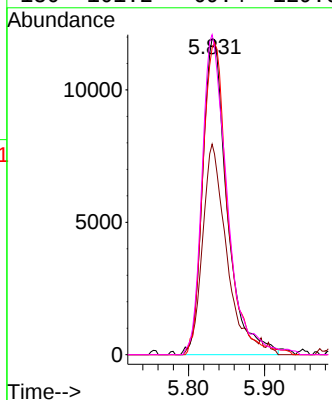
#34
Trichloroethene
Concen: 5.336 ug/L
RT: 5.831 min Scan# 1488
Delta R.T. 0.006 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 95 Resp: 26625

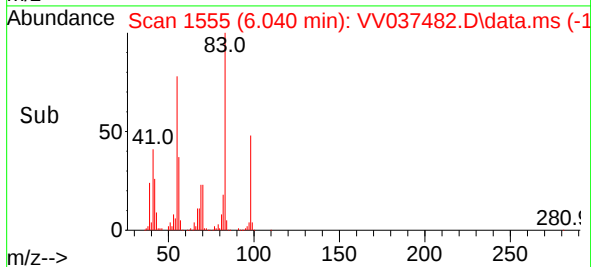
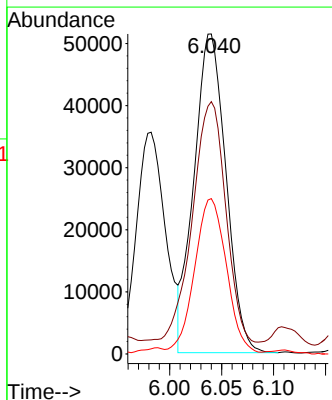
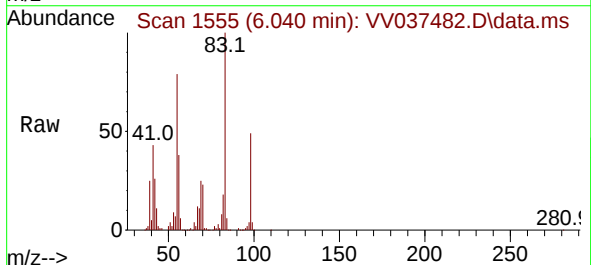
Ion	Ratio	Lower	Upper
95	100		
97	66.6	44.4	82.5
132	97.0	64.9	120.5
130	101.2	69.4	129.0

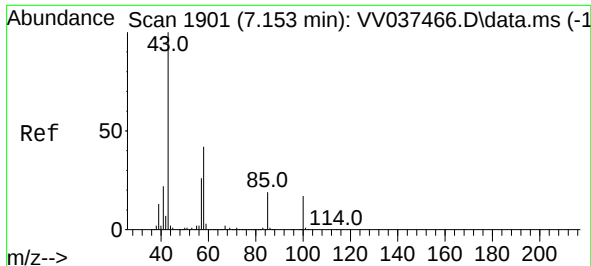


#35
Methylcyclohexane
Concen: 13.553 ug/L
RT: 6.040 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

Tgt Ion: 83 Resp: 109873

Ion	Ratio	Lower	Upper
83	100		
55	84.6	61.2	91.8
98	47.5	39.3	58.9





#40

4-Methyl-2-pentanone

Concen: 11.290 ug/L

RT: 7.178 min Scan# 1909

Delta R.T. 0.026 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

ClientSampleId :

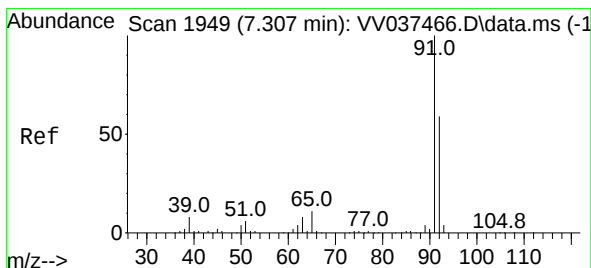
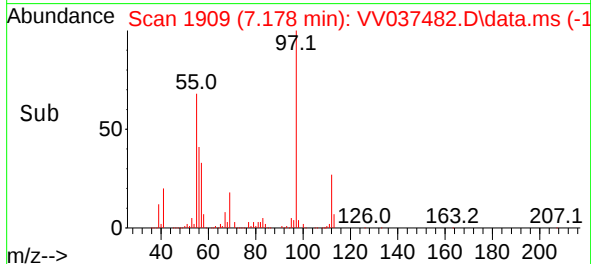
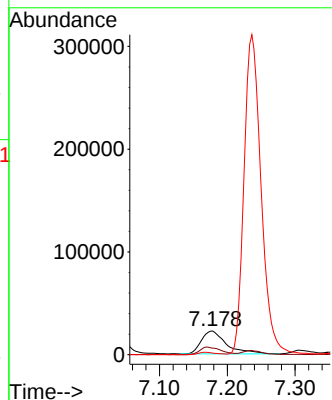
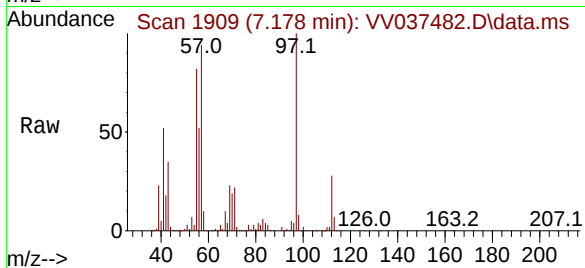
Tgt Ion: 43 Resp: 58172

Ion Ratio Lower Upper

43 100

58 28.2 32.0 48.0#

100 7.7 12.4 18.6#



#42

Toluene

Concen: 47.898 ug/L

RT: 7.307 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VV037482.D

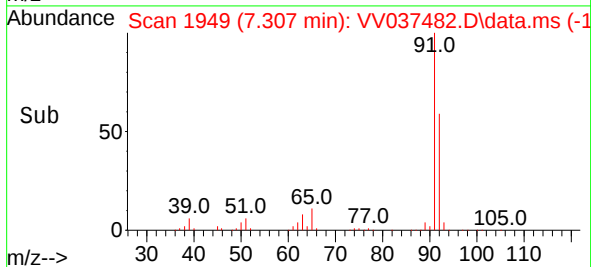
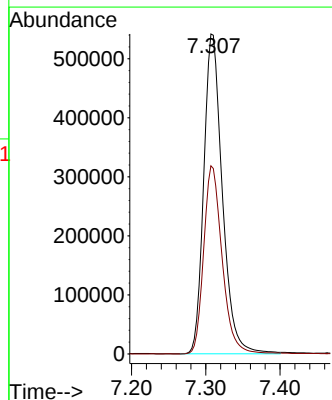
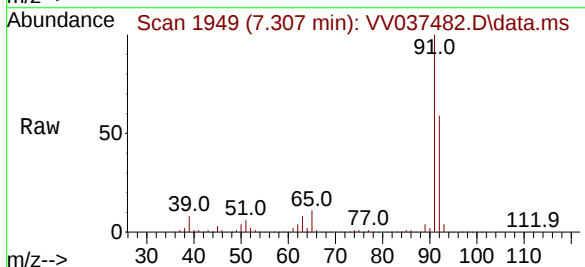
Acq: 23 Sep 2024 15:12

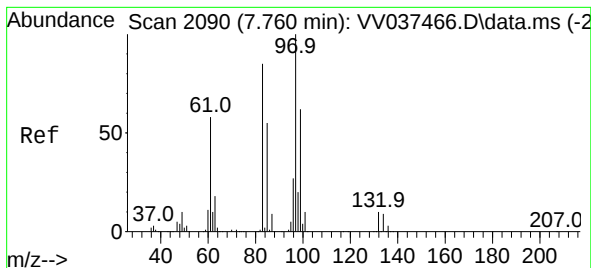
Tgt Ion: 91 Resp: 942758

Ion Ratio Lower Upper

91 100

92 58.8 40.8 75.8





#45

1,1,2-Trichloroethane

Concen: 9.840 ug/L

RT: 7.709 min Scan# 2090

Delta R.T. -0.052 min

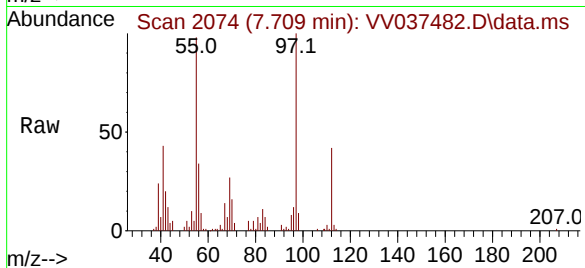
Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 97 Resp: 46422

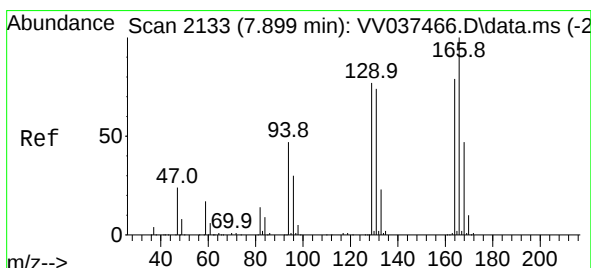
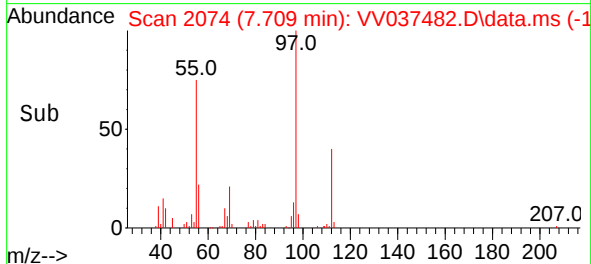
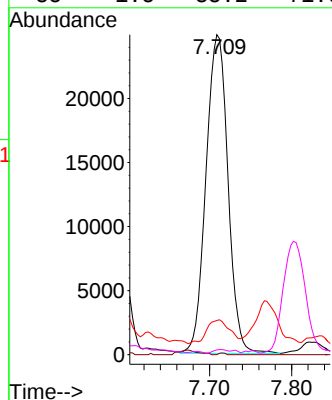
Ion Ratio Lower Upper

97 100

99 0.0 42.6 79.0#

83 10.7 60.5 112.3#

85 1.5 38.2 71.0#



#46

Tetrachloroethene

Concen: 7.520 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.003 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Tgt Ion: 164 Resp: 26923

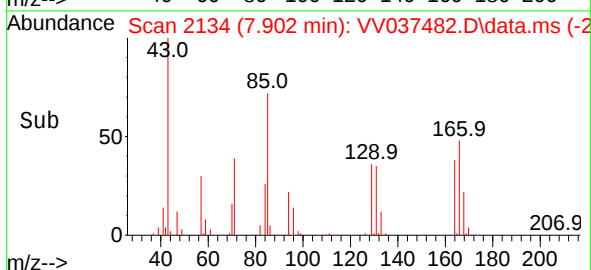
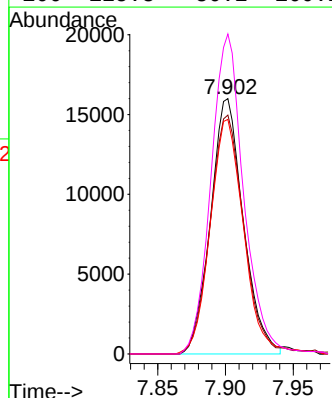
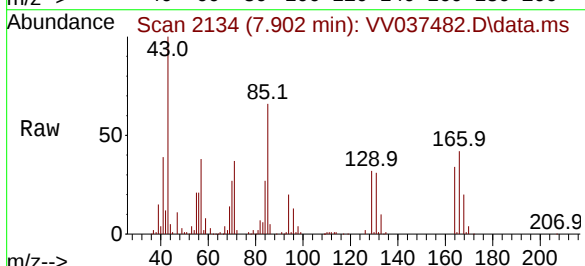
Ion Ratio Lower Upper

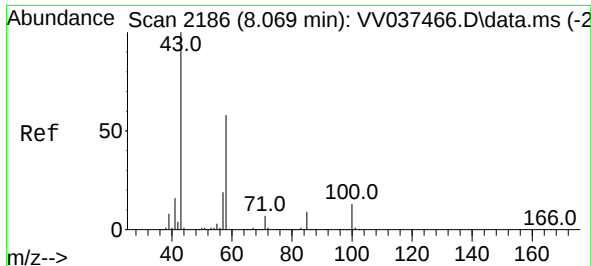
164 100

129 93.5 67.1 124.7

131 91.9 67.0 124.4

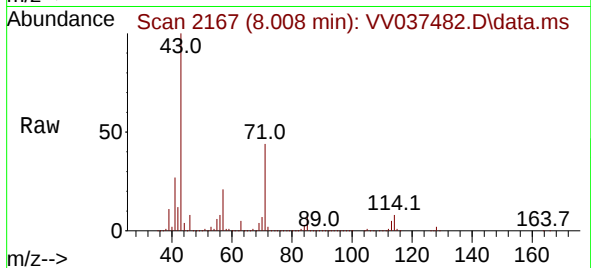
166 125.3 86.2 160.2



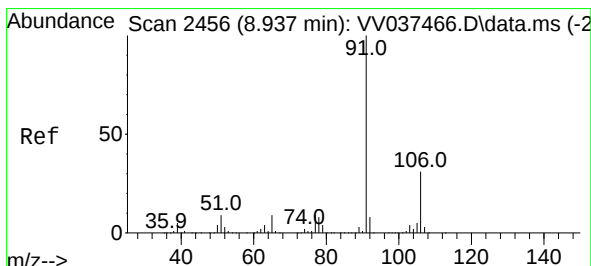
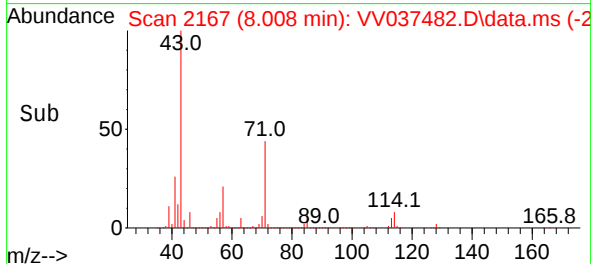
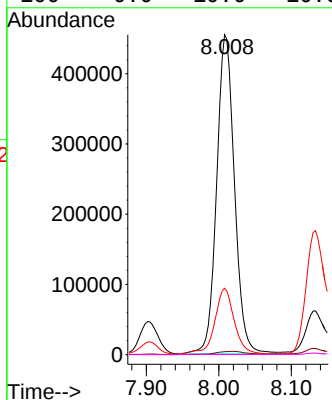


#48
2-Hexanone
Concen: 194.482 ug/L
RT: 8.008 min Scan# 2186
Delta R.T. -0.061 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

Instrument :
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ClientSampleId :

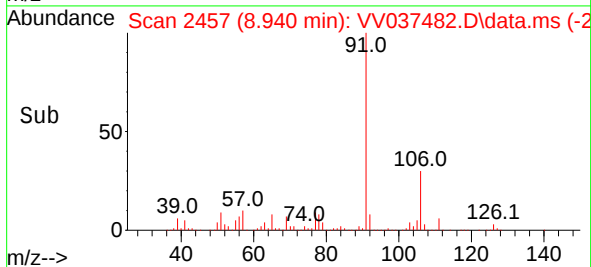
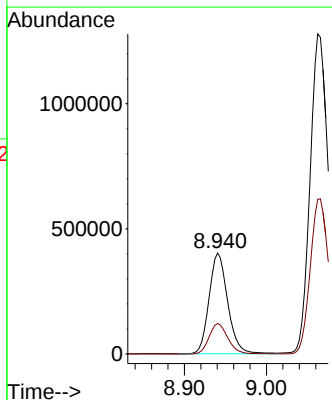
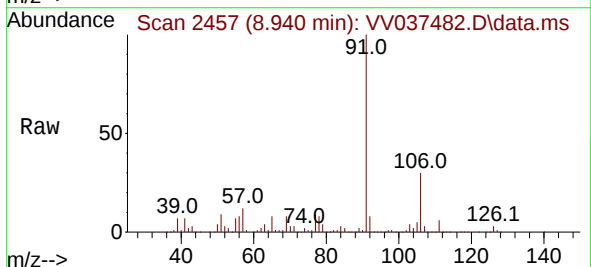


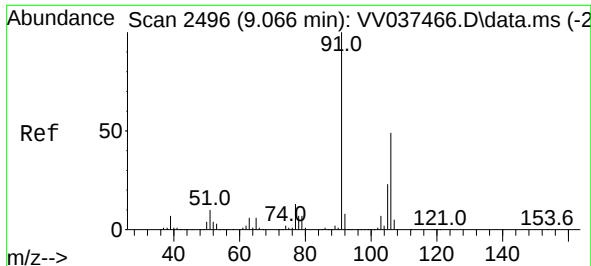
Tgt Ion: 43 Resp: 774959
Ion Ratio Lower Upper
43 100
58 1.7 46.0 69.0#
57 22.5 15.6 23.4
100 0.0 10.6 16.0#



#52
Ethylbenzene
Concen: 28.606 ug/L
RT: 8.940 min Scan# 2457
Delta R.T. 0.003 min
Lab File: VV037482.D
Acq: 23 Sep 2024 15:12

Tgt Ion: 91 Resp: 635970
Ion Ratio Lower Upper
91 100
106 30.1 21.4 39.8





#53

m,p-Xylene

Concen: 120.398 ug/L

RT: 9.066 min Scan# 2496

Delta R.T. -0.000 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

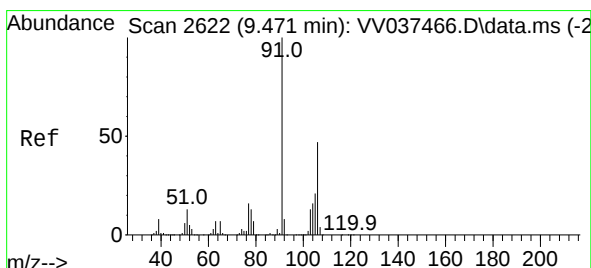
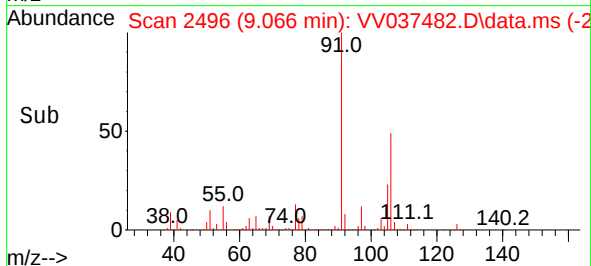
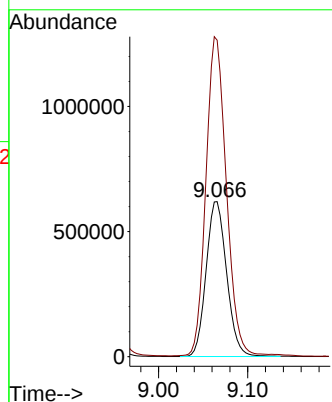
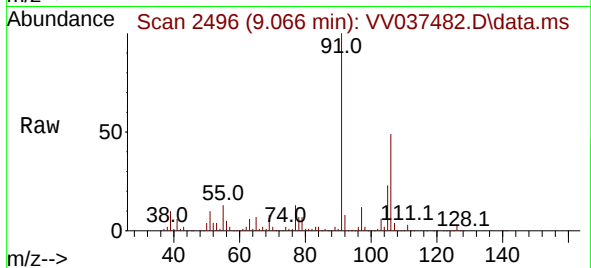
ClientSampleId :

Tgt Ion:106 Resp: 991749

Ion Ratio Lower Upper

106 100

91 204.1 143.0 265.6



#54

o-Xylene

Concen: 91.212 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.000 min

Lab File: VV037482.D

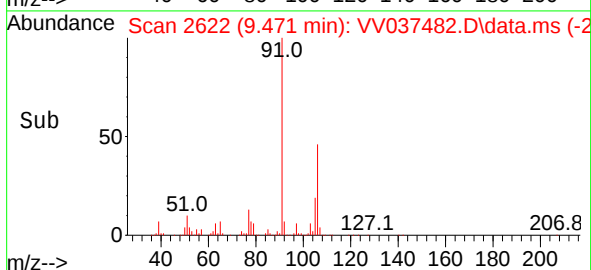
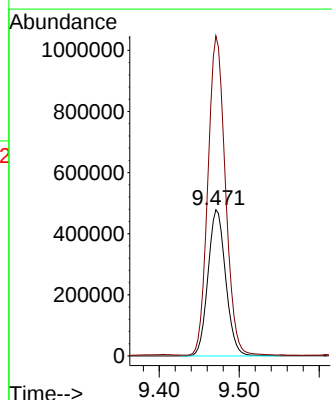
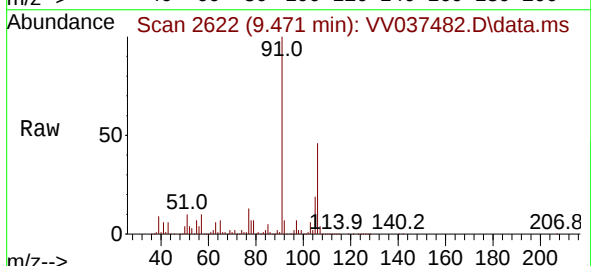
Acq: 23 Sep 2024 15:12

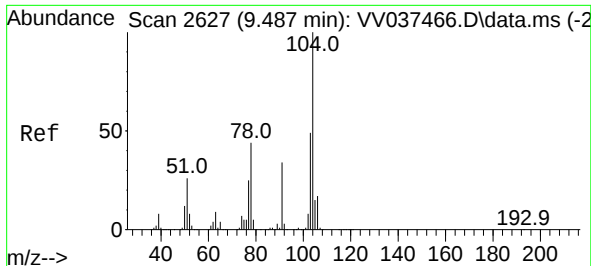
Tgt Ion:106 Resp: 735646

Ion Ratio Lower Upper

106 100

91 218.9 153.2 284.6





#55

Styrene

Concen: 2.658 ug/L

RT: 9.471 min Scan# 2

Delta R.T. -0.016 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

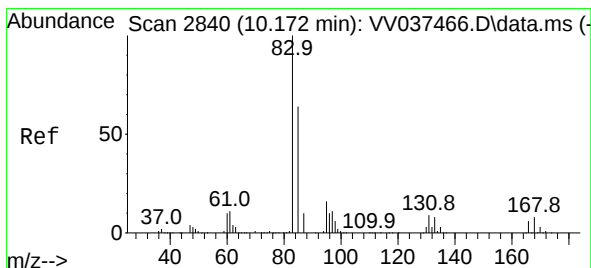
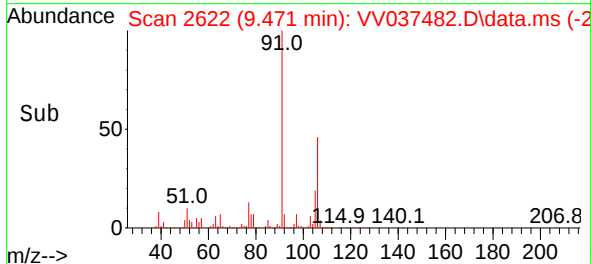
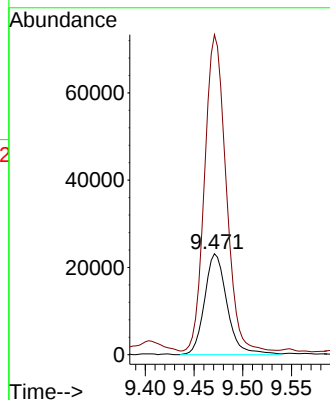
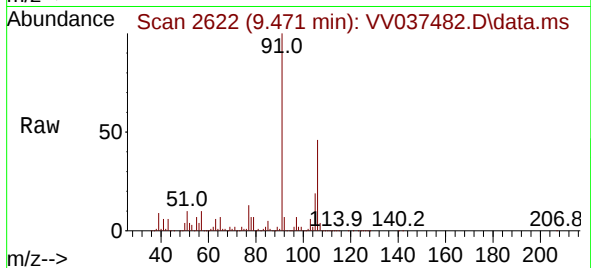
ClientSampleId :

Tgt Ion:104 Resp: 37203

Ion Ratio Lower Upper

104 100

78 317.1 30.9 57.5#



#57

1,1,2,2-Tetrachloroethane

Concen: 59.299 ug/L

RT: 10.162 min Scan# 2837

Delta R.T. -0.010 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

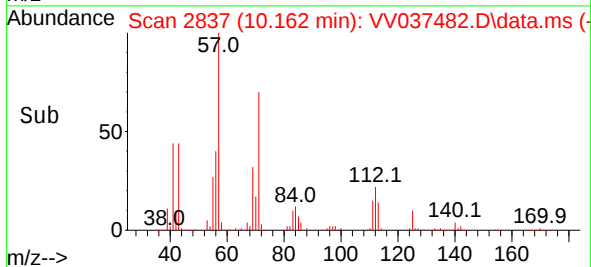
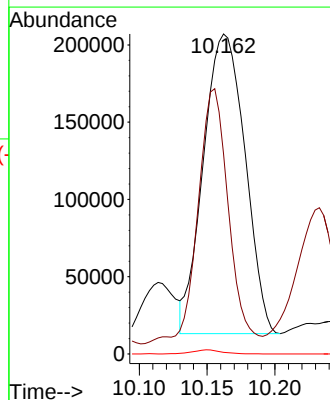
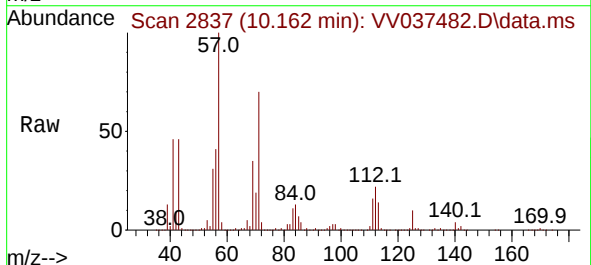
Tgt Ion: 83 Resp: 414335

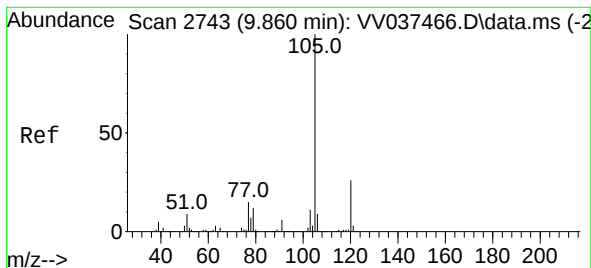
Ion Ratio Lower Upper

83 100

85 62.5 45.1 83.7

131 0.5 7.4 11.0#





#60

Isopropylbenzene

Concen: 33.265 ug/L

RT: 9.860 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

ClientSampleId :

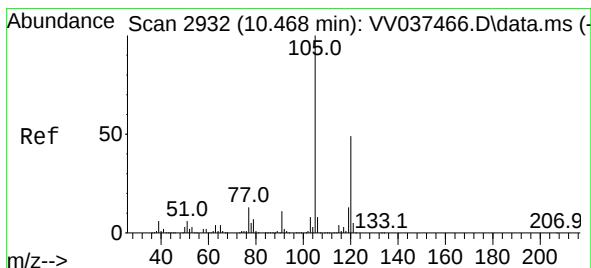
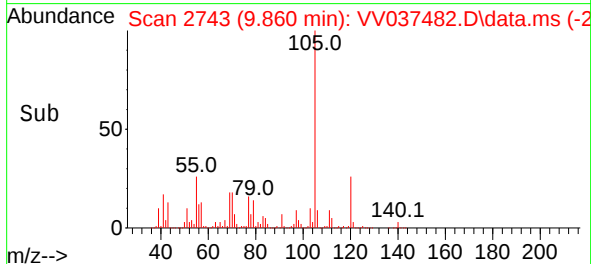
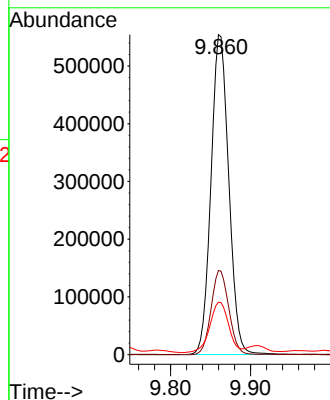
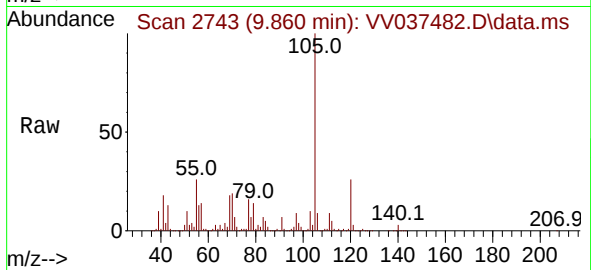
Tgt Ion:105 Resp: 854858

Ion Ratio Lower Upper

105 100

120 26.2 20.9 31.3

77 16.6 12.6 19.0



#62

1,3,5-Trimethylbenzene

Concen: 205.653 ug/L

RT: 10.474 min Scan# 2934

Delta R.T. 0.006 min

Lab File: VV037482.D

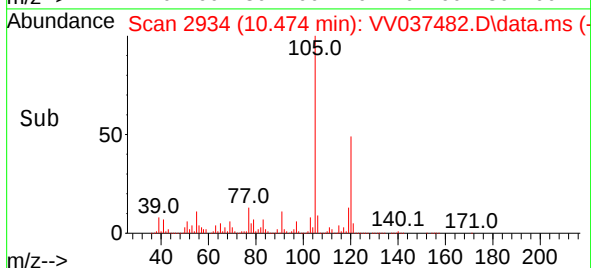
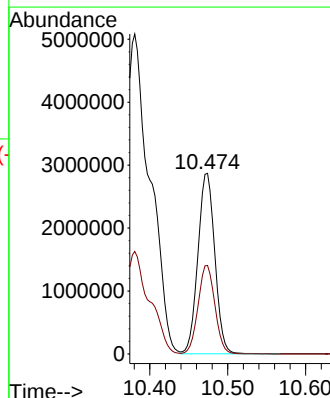
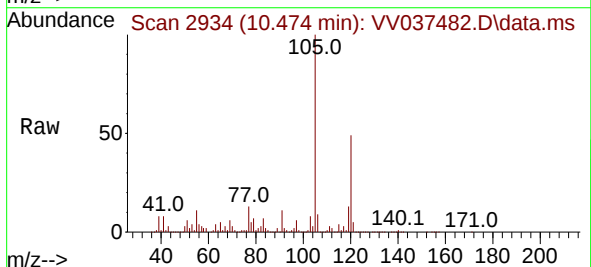
Acq: 23 Sep 2024 15:12

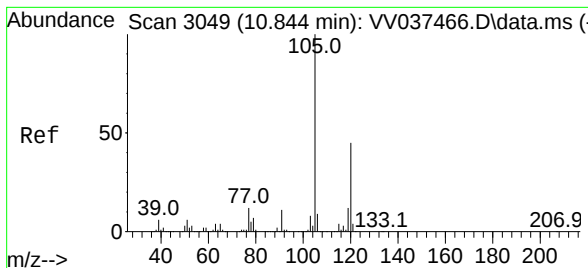
Tgt Ion:105 Resp: 4323994

Ion Ratio Lower Upper

105 100

120 48.6 38.3 57.5





#63

1,2,4-Trimethylbenzene

Concen: 526.944 ug/L

RT: 10.850 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

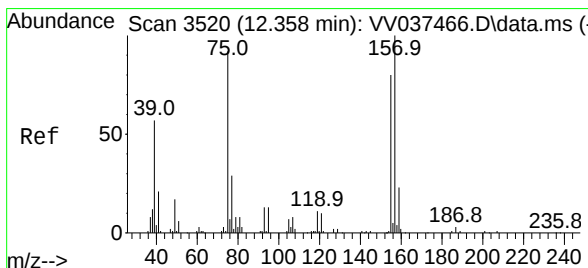
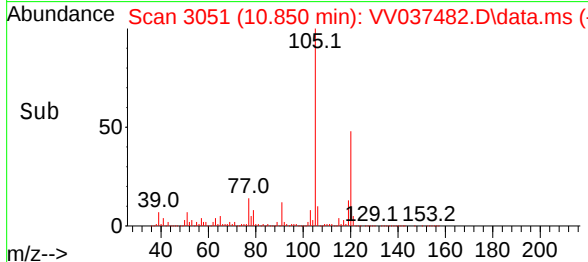
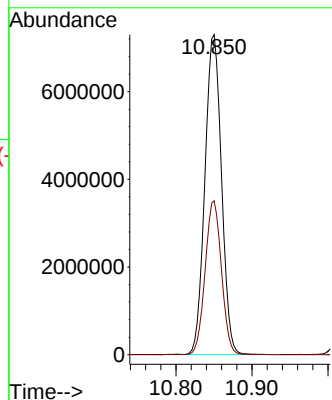
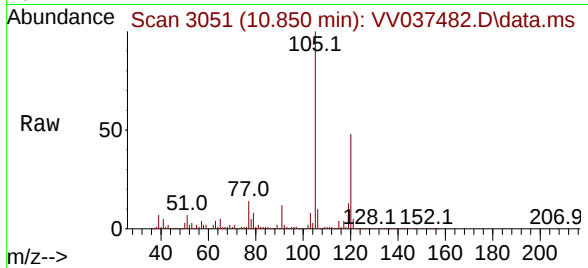
ClientSampleId :

Tgt Ion:105 Resp:11056703

Ion Ratio Lower Upper

105 100

120 47.2 35.8 53.6



#68

1,2-Dibromo-3-chloropropane

Concen: 11.422 ug/L

RT: 12.345 min Scan# 3516

Delta R.T. -0.013 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

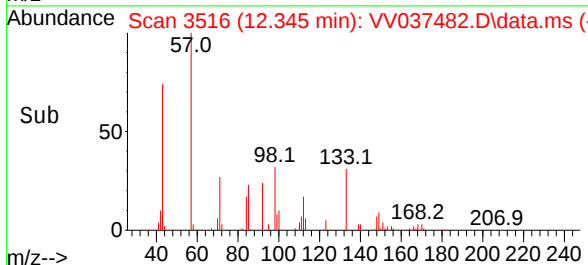
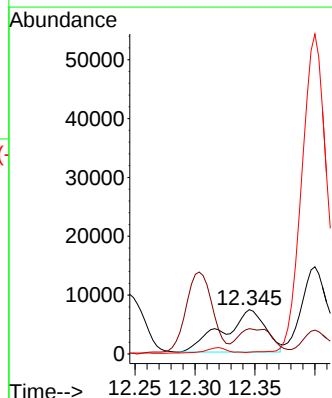
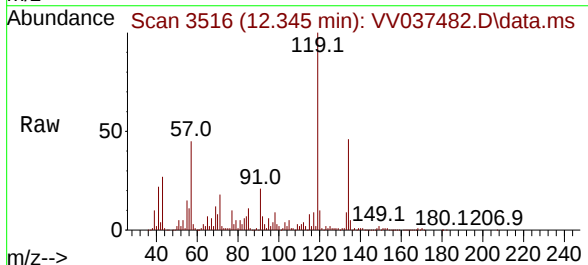
Tgt Ion: 75 Resp: 17565

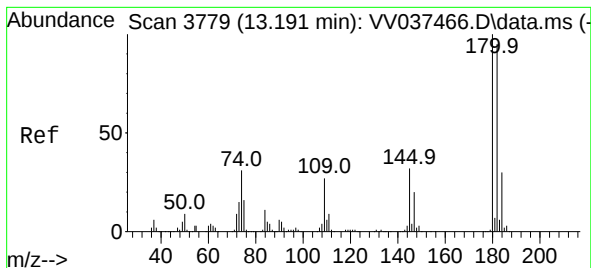
Ion Ratio Lower Upper

75 100

155 57.0 61.8 92.6#

157 4.0 82.5 123.7#





#70

1,2,4-trichlorobenzene

Concen: 1.704 ug/L

RT: 13.194 min Scan# 3779

Delta R.T. 0.003 min

Lab File: VV037482.D

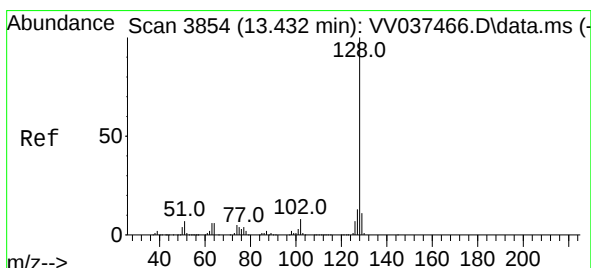
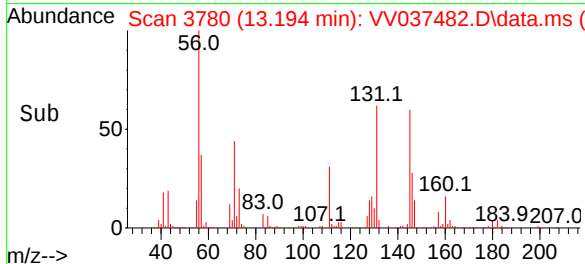
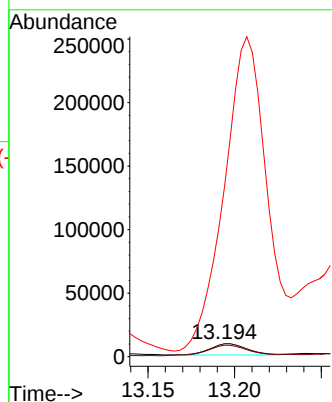
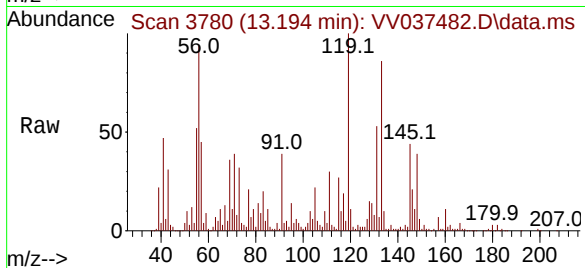
Acq: 23 Sep 2024 15:12

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:180 Resp: 13250
 Ion Ratio Lower Upper
 180 100
 182 102.4 75.7 113.5
 145 3186.7 26.0 39.0#



#71

Naphthalene

Concen: 72.223 ug/L

RT: 13.432 min Scan# 3854

Delta R.T. -0.000 min

Lab File: VV037482.D

Acq: 23 Sep 2024 15:12

Tgt Ion:128 Resp: 1621498
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.2 15.2
 129 12.6 8.8 13.2

