

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
 Data File : VV029506.D
 Acq On : 09 Dec 2022 04:22
 Operator : SY/MD
 Sample : N5928-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ66

Quant Time: Dec 09 06:48:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	533388	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	501764	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	274332	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	117426	35.951	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.900%
7) Chloroethane-d5	1.561	69	100494	40.349	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.700%
11) 1,1-Dichloroethene-d2	2.105	63	154160	30.260	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.520%
21) 2-Butanone-d5	3.867	46	247763	124.348	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	124.350%
24) Chloroform-d	4.339	84	260199	42.333	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.660%
26) 1,2-Dichloroethane-d4	5.024	65	156223	44.502	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.000%
32) Benzene-d6	5.043	84	541866	40.870	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.740%
36) 1,2-Dichloropropane-d6	6.063	67	175933	43.442	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.880%
41) Toluene-d8	7.307	98	493561	39.509	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.020%#
43) trans-1,3-Dichloroprop...	7.612	79	72503	35.454	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.900%
47) 2-Hexanone-d5	8.082	63	213753	123.603	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	123.600%
56) 1,1,2,2-Tetrachloroeth...	10.207	84	257386	44.475	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.960%
66) 1,2-Dichlorobenzene-d4	11.612	152	221537	42.422	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.840%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	1175736	293.362	ug/L	99
8) Chloroethane	1.577	64	8559010	3835.249	ug/L	92
12) 1,1-Dichloroethene	2.114	96	14102	4.946	ug/L #	1
13) Acetone	2.159	43	12454	9.595	ug/L	98
15) Methyl Acetate	2.426	43	29576	10.001	ug/L	98
17) trans-1,2-Dichloroethene	2.757	96	41559	12.651	ug/L	99
19) 1,1-Dichloroethane	3.182	63	5178135	920.092	ug/L	98
20) cis-1,2-Dichloroethene	3.902	96	1667668	461.655	ug/L	95
27) 1,2-Dichloroethane	5.127	62	24966	6.057	ug/L	99
29) Cyclohexane	4.674	56	7604	1.399	ug/L	91
30) 1,1,1-Trichloroethane	4.600	97	160167	29.299	ug/L	99
33) Benzene	5.098	78	32486	2.297	ug/L	100
34) Trichloroethene	5.908	95	145631	41.091	ug/L	98
35) Methylcyclohexane	6.127	83	16058	2.668	ug/L	96
40) 4-Methyl-2-pentanone	7.230	43	10047	2.469	ug/L	99
42) Toluene	7.378	91	2521444	165.635	ug/L	99
45) 1,1,2-Trichloroethane	7.831	97	3087	0.875	ug/L	92
46) Tetrachloroethene	7.969	164	9802	3.440	ug/L	98
51) Chlorobenzene	8.876	112	24050	2.495	ug/L	98

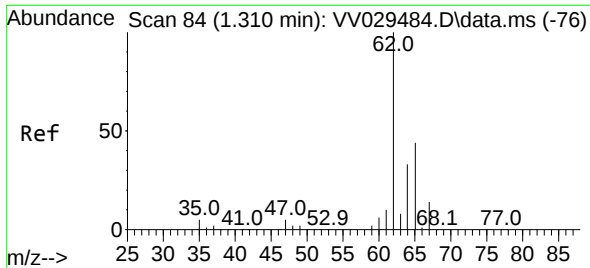
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
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 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.005	91	3486644	217.852	ug/L	98
53) m,p-Xylene	9.130	106	3865852	610.292	ug/L	95
54) o-Xylene	9.535	106	2270546	362.372	ug/L	98
60) Isopropylbenzene	9.921	105	612837	38.049	ug/L	100
62) 1,3,5-Trimethylbenzene	10.529	105	2588229	181.744	ug/L	100
63) 1,2,4-Trimethylbenzene	10.908	105	11509866	815.345	ug/L	94
65) 1,4-Dichlorobenzene	11.265	146	18736	2.341	ug/L	97
67) 1,2-Dichlorobenzene	11.632	146	290242	36.041	ug/L	99

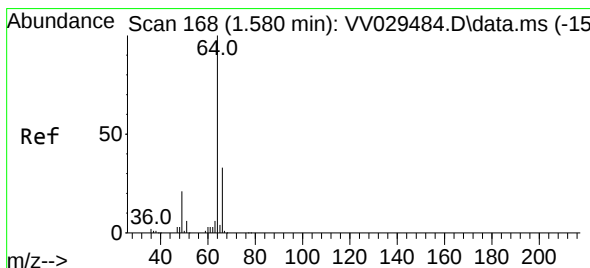
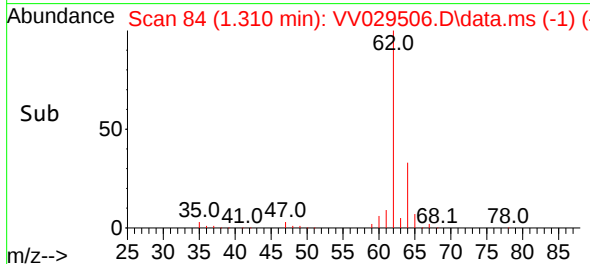
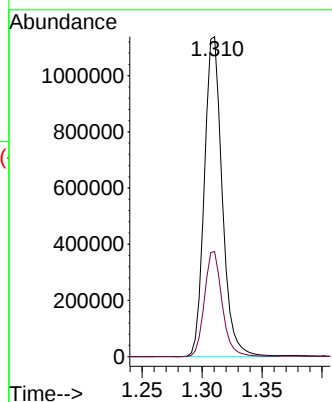
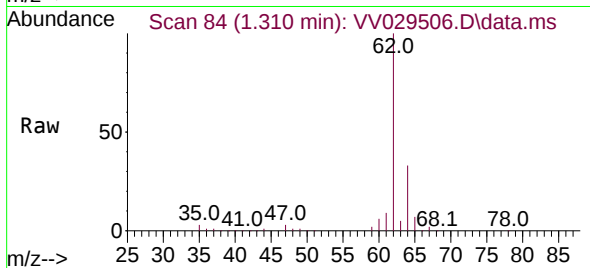
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 293.362 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV029506.D
 Acq: 09 Dec 2022 04:22

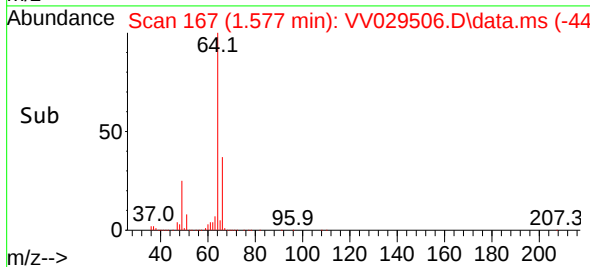
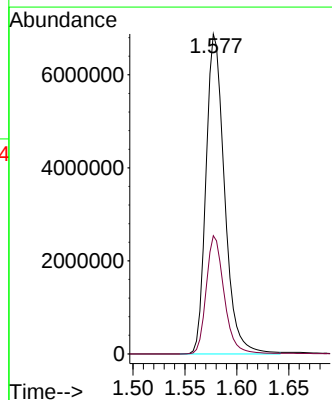
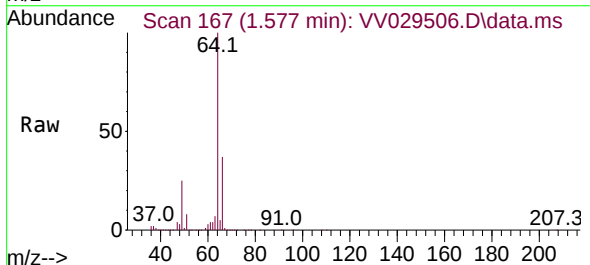
Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ66

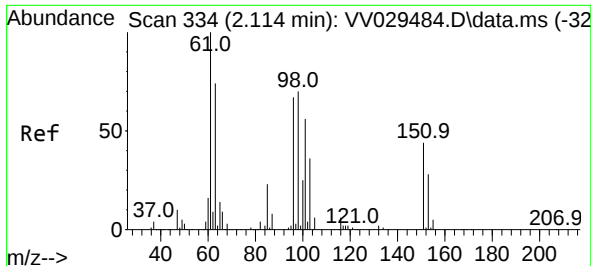
Tgt Ion: 62 Resp: 1175736
 Ion Ratio Lower Upper
 62 100
 64 32.8 22.5 41.9



#8
 Chloroethane
 Concen: 3835.249 ug/L
 RT: 1.577 min Scan# 167
 Delta R.T. -0.003 min
 Lab File: VV029506.D
 Acq: 09 Dec 2022 04:22

Tgt Ion: 64 Resp: 8559010
 Ion Ratio Lower Upper
 64 100
 66 36.9 22.5 41.9





#12

1,1-Dichloroethene

Concen: 4.946 ug/L

RT: 2.114 min Scan# 334

Delta R.T. -0.000 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

EXZ66

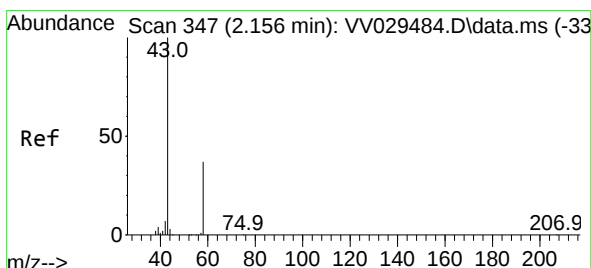
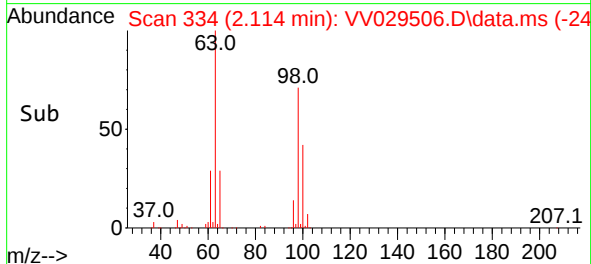
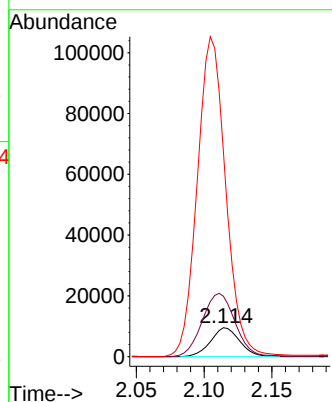
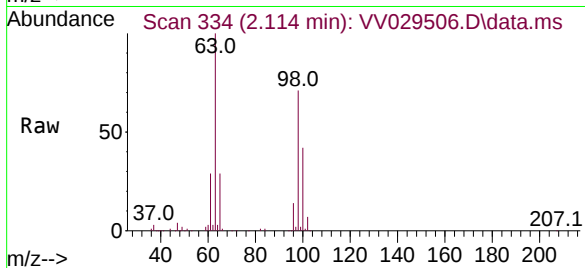
Tgt Ion: 96 Resp: 14102

Ion Ratio Lower Upper

96 100

61 209.6 103.3 191.9#

63 710.9 77.3 143.7#



#13

Acetone

Concen: 9.595 ug/L

RT: 2.159 min Scan# 348

Delta R.T. 0.003 min

Lab File: VV029506.D

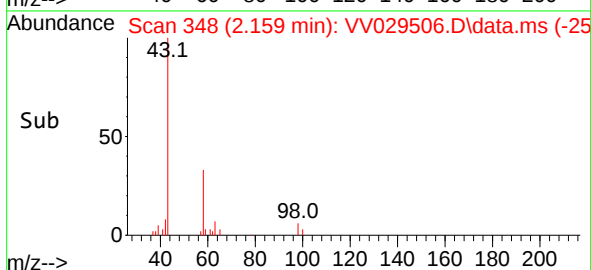
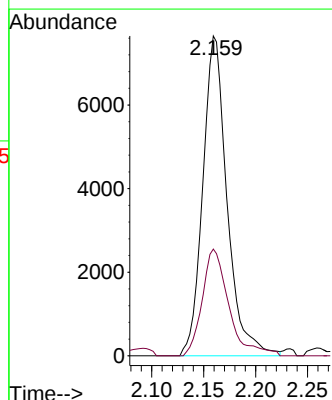
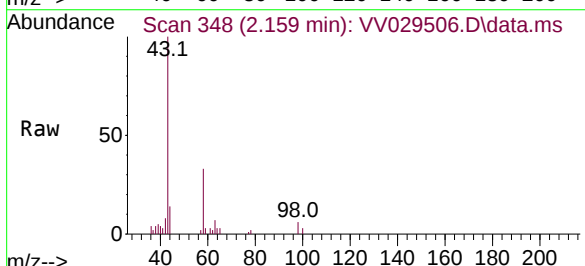
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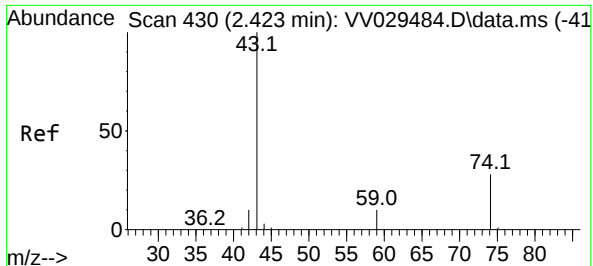
Tgt Ion: 43 Resp: 12454

Ion Ratio Lower Upper

43 100

58 36.5 0.0 74.8

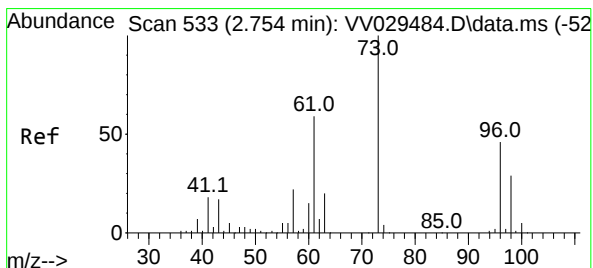
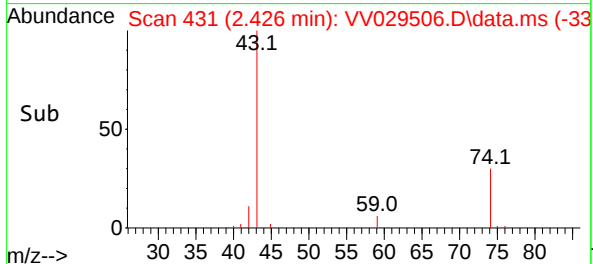
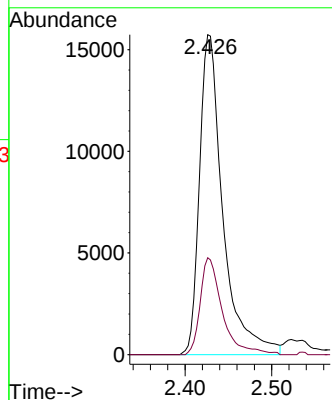
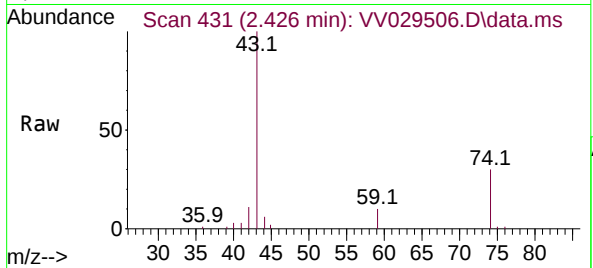




#15
Methyl Acetate
Concen: 10.001 ug/L
RT: 2.426 min Scan# 431
Delta R.T. 0.003 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

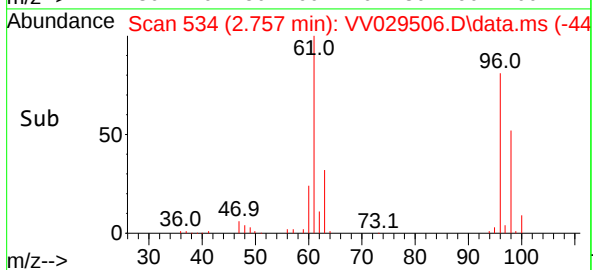
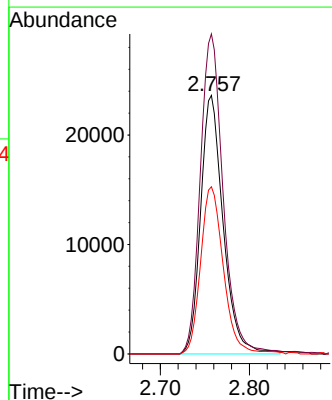
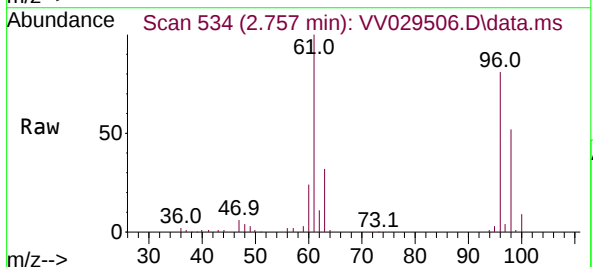
Instrument :
MSVOA_V
ClientSampleId :
EXZ66

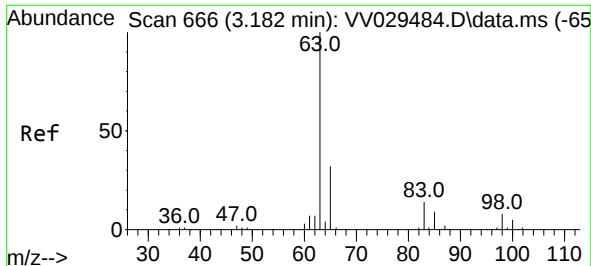
Tgt Ion: 43 Resp: 29576
Ion Ratio Lower Upper
43 100
74 28.4 23.5 35.3



#17
trans-1,2-Dichloroethene
Concen: 12.651 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.003 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion: 96 Resp: 41559
Ion Ratio Lower Upper
96 100
61 123.8 86.4 160.4
98 64.6 43.4 80.6





#19

1,1-Dichloroethane

Concen: 920.092 ug/L

RT: 3.182 min Scan# 666

Delta R.T. -0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

EXZ66

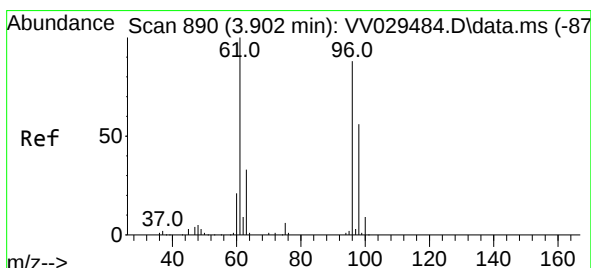
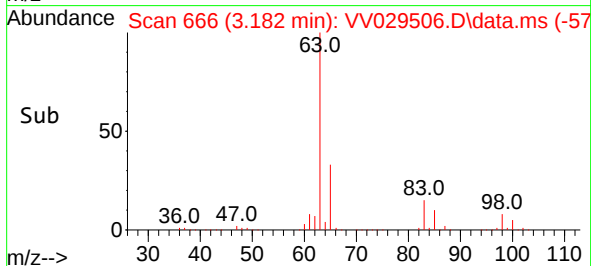
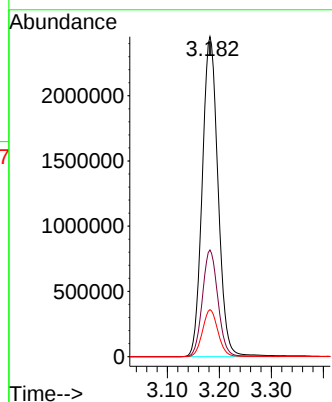
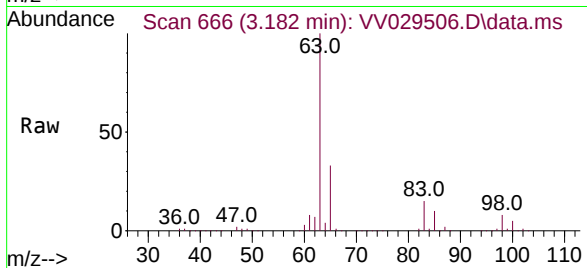
Tgt Ion: 63 Resp: 5178135

Ion Ratio Lower Upper

63 100

65 33.3 22.5 41.7

83 14.7 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 461.655 ug/L

RT: 3.902 min Scan# 890

Delta R.T. -0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

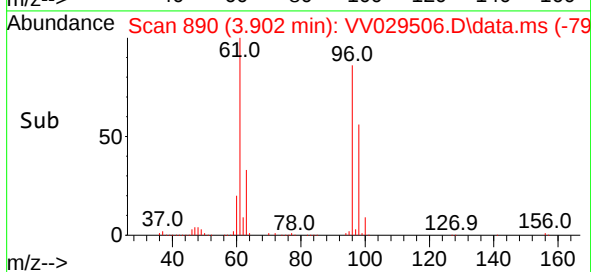
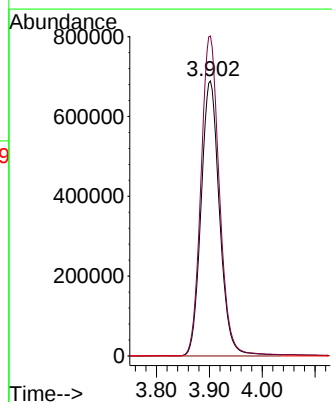
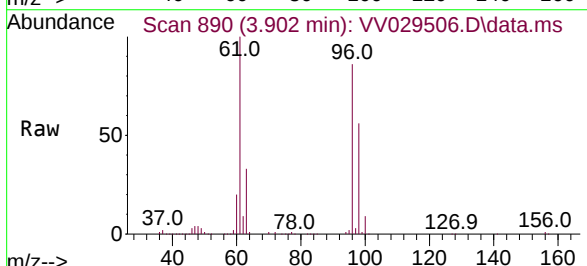
Tgt Ion: 96 Resp: 1667668

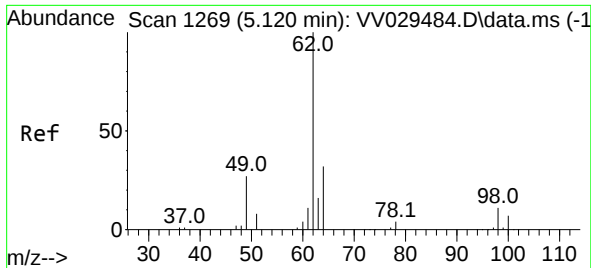
Ion Ratio Lower Upper

96 100

61 116.4 78.0 144.9

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 6.057 ug/L

RT: 5.127 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

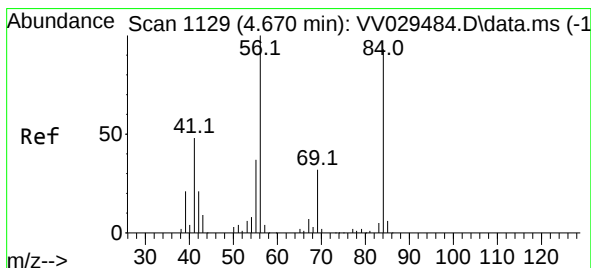
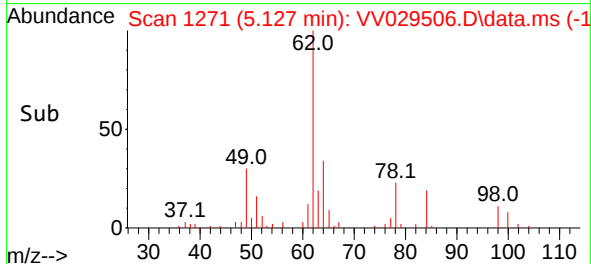
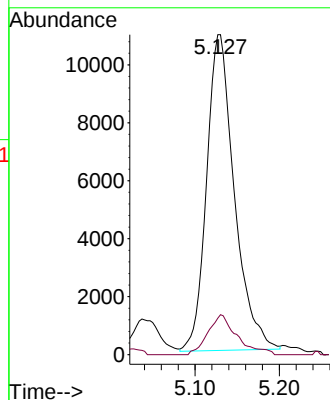
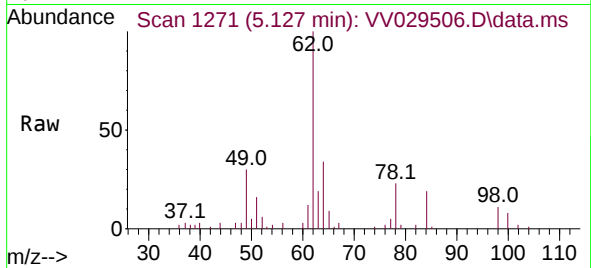
EXZ66

Tgt Ion: 62 Resp: 24966

Ion Ratio Lower Upper

62 100

98 11.4 9.4 14.0



#29

Cyclohexane

Concen: 1.399 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

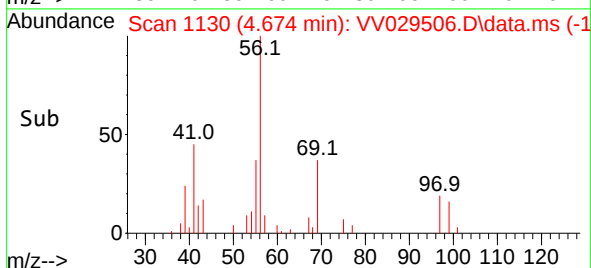
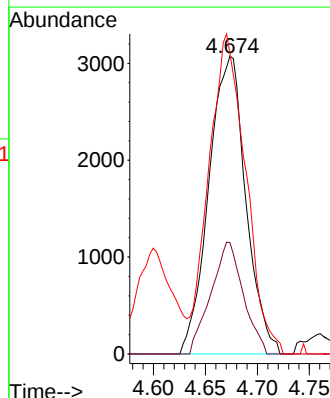
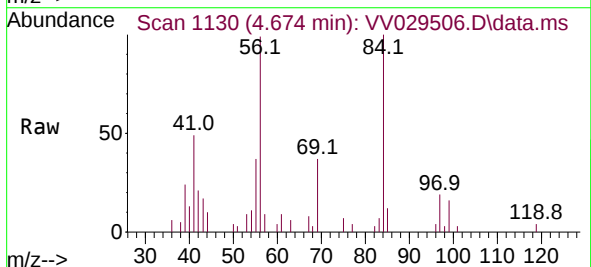
Tgt Ion: 56 Resp: 7604

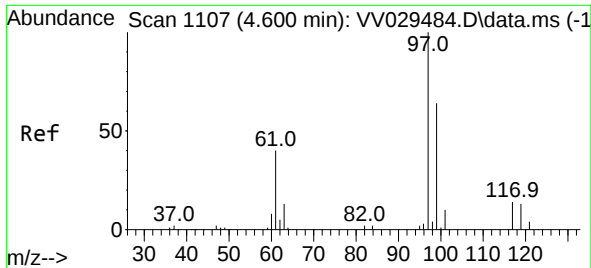
Ion Ratio Lower Upper

56 100

69 32.7 25.8 38.8

84 107.5 76.6 114.8

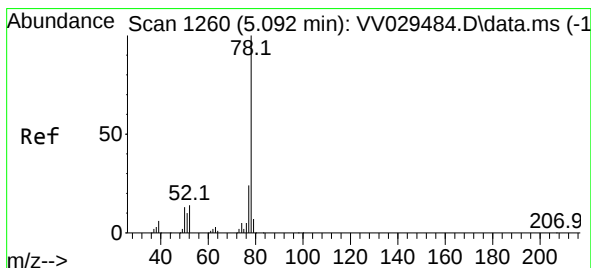
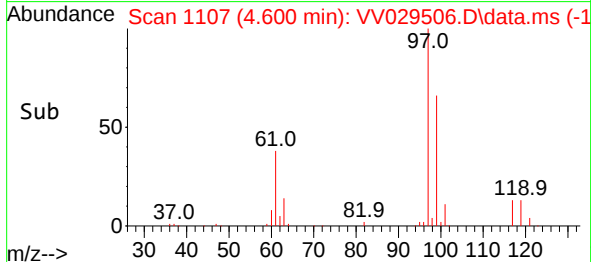
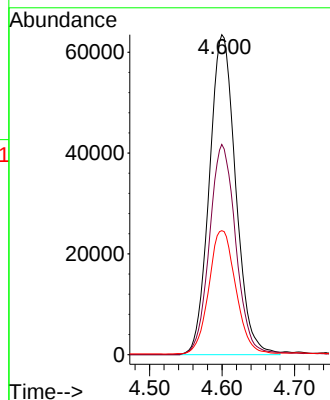
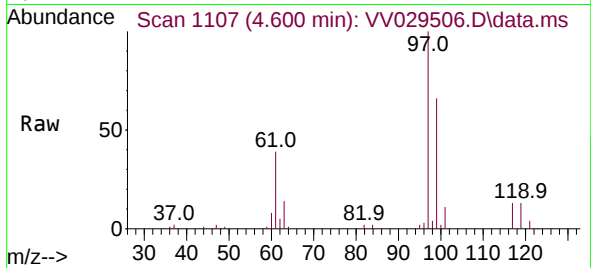




#30
1,1,1-Trichloroethane
Concen: 29.299 ug/L
RT: 4.600 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

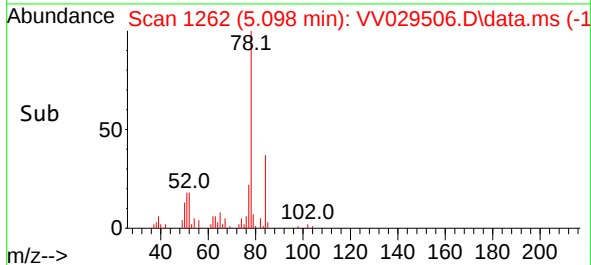
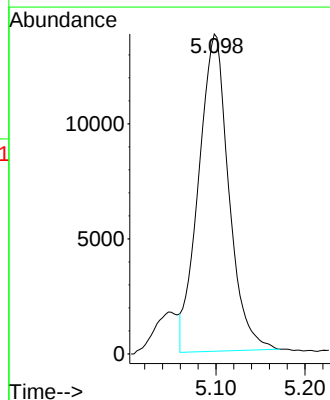
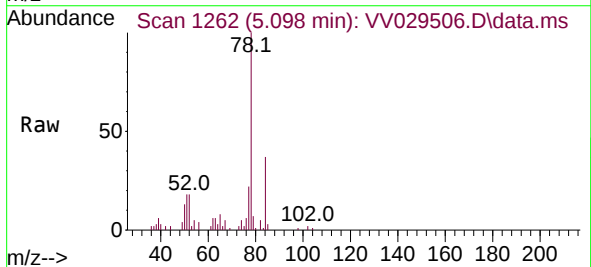
Instrument : MSVOA_V
ClientSampleId : EXZ66

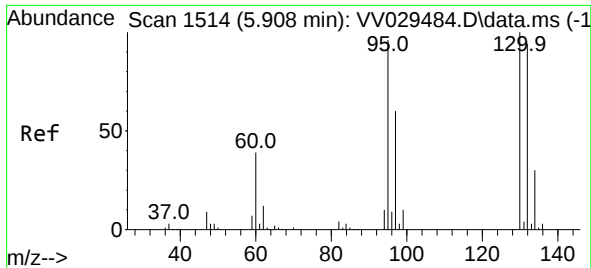
Tgt Ion: 97 Resp: 160167
Ion Ratio Lower Upper
97 100
99 65.9 52.1 78.1
61 39.2 31.8 47.8



#33
Benzene
Concen: 2.297 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion: 78 Resp: 32486





#34

Trichloroethene

Concen: 41.091 ug/L

RT: 5.908 min Scan# 1514

Delta R.T. -0.000 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

EXZ66

Tgt Ion: 95 Resp: 145631

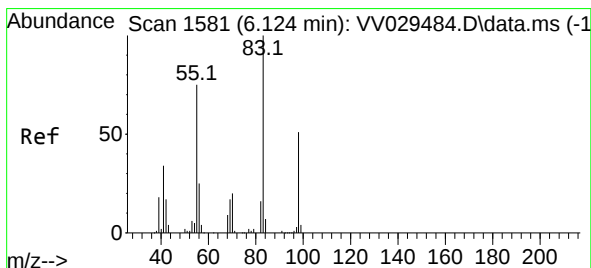
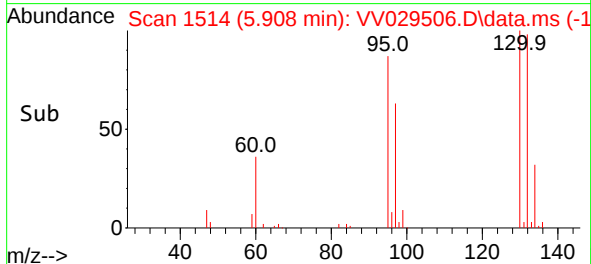
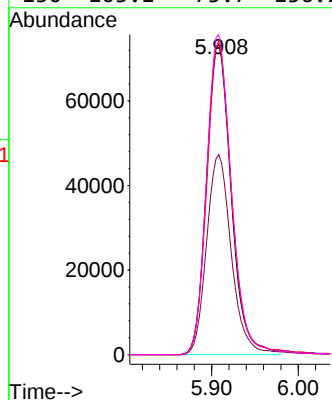
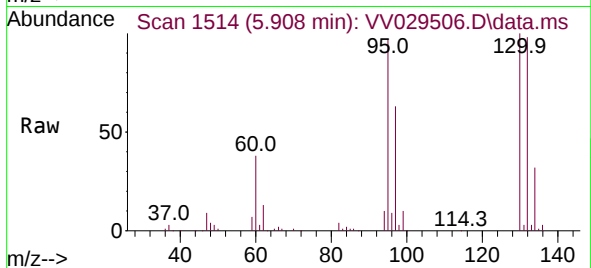
Ion Ratio Lower Upper

95 100

97 64.5 44.0 81.8

132 101.0 69.9 129.9

130 103.1 73.7 136.9



#35

Methylcyclohexane

Concen: 2.668 ug/L

RT: 6.127 min Scan# 1582

Delta R.T. -0.000 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

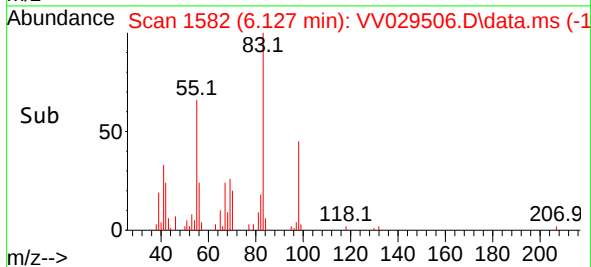
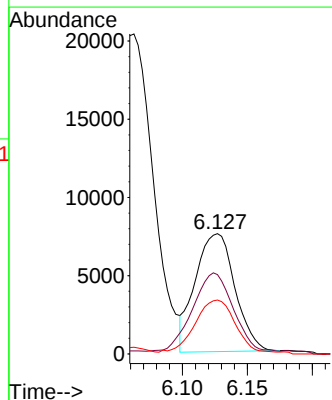
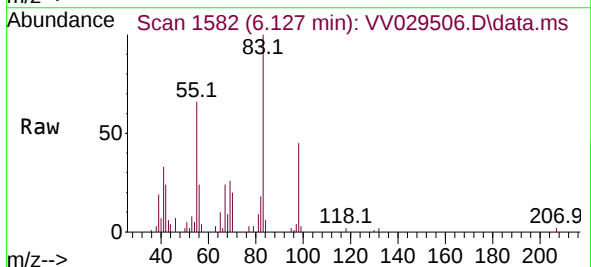
Tgt Ion: 83 Resp: 16058

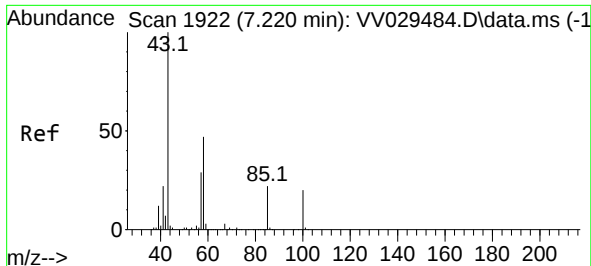
Ion Ratio Lower Upper

83 100

55 69.2 55.5 83.3

98 44.0 39.8 59.8





#40

4-Methyl-2-pentanone

Concen: 2.469 ug/L

RT: 7.230 min Scan# 1922

Delta R.T. 0.010 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

EXZ66

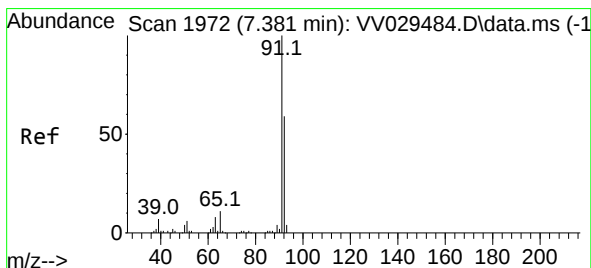
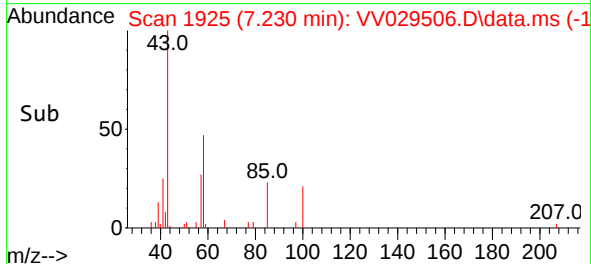
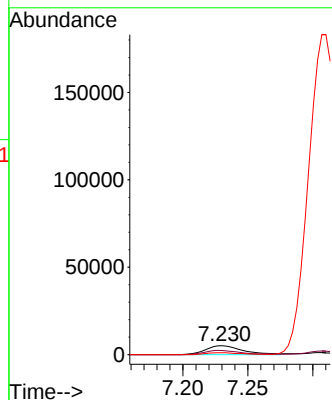
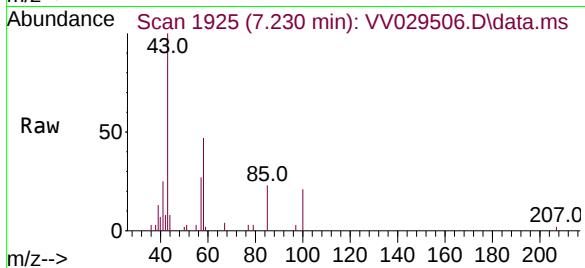
Tgt Ion: 43 Resp: 10047

Ion Ratio Lower Upper

43 100

58 46.6 37.5 56.3

100 20.1 16.7 25.1



#42

Toluene

Concen: 165.635 ug/L

RT: 7.378 min Scan# 1971

Delta R.T. -0.003 min

Lab File: VV029506.D

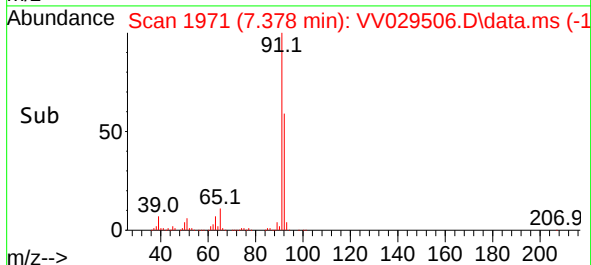
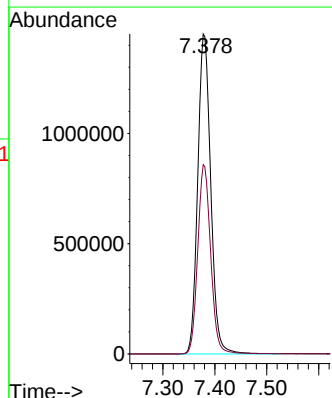
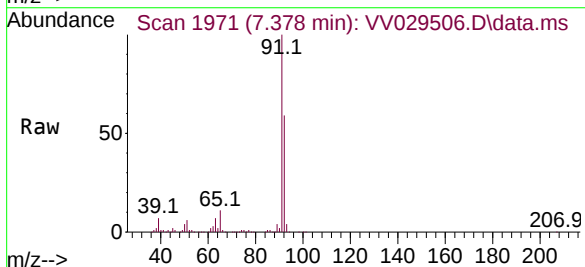
Acq: 09 Dec 2022 04:22

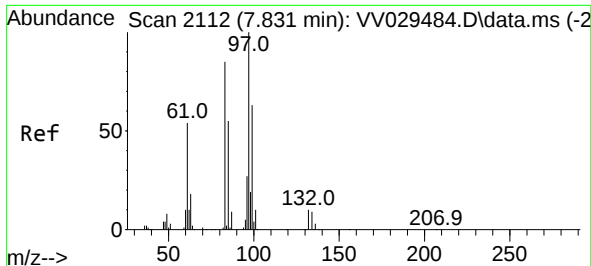
Tgt Ion: 91 Resp: 2521444

Ion Ratio Lower Upper

91 100

92 59.1 40.6 75.4

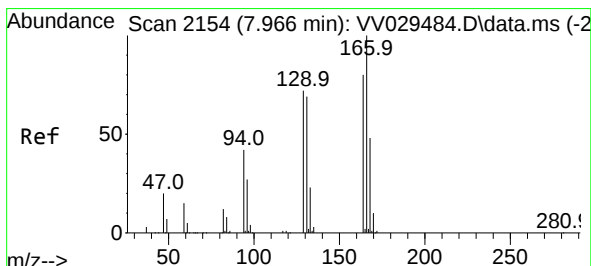
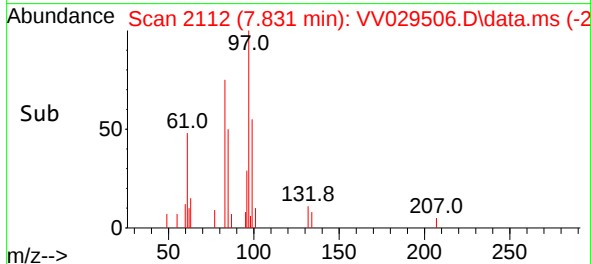
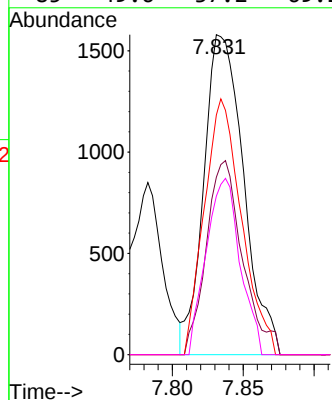
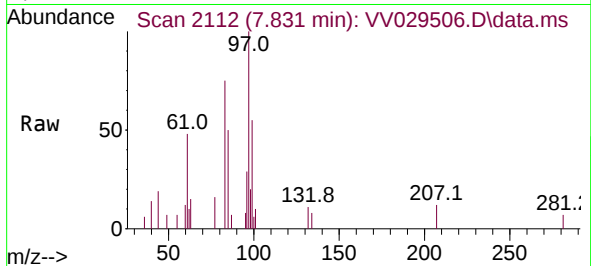




#45
1,1,2-Trichloroethane
Concen: 0.875 ug/L
RT: 7.831 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

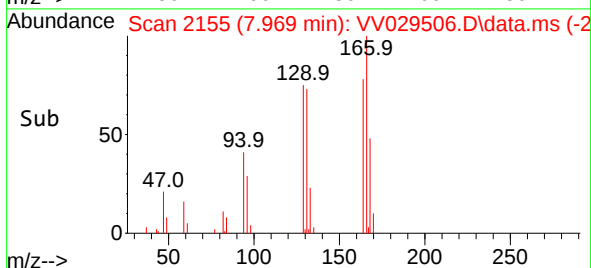
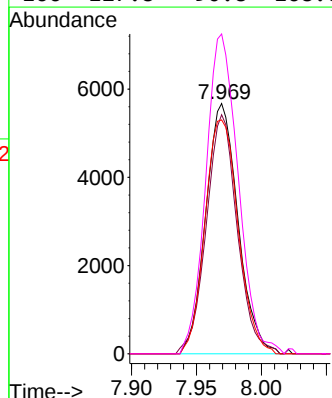
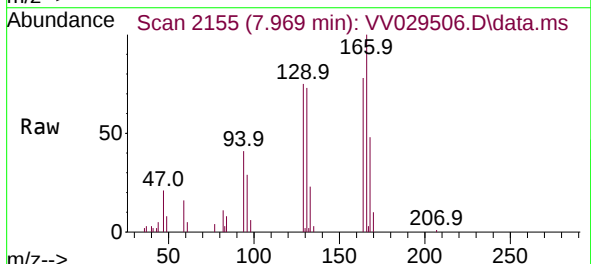
Instrument :
MSVOA_V
ClientSampleId :
EXZ66

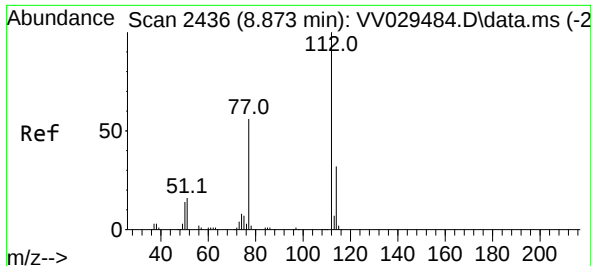
Tgt Ion:	97	Resp:	3087
Ion	Ratio	Lower	Upper
97	100		
99	55.4	43.8	81.3
83	74.9	58.6	108.8
85	49.6	37.2	69.2



#46
Tetrachloroethene
Concen: 3.440 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion:	164	Resp:	9802
Ion	Ratio	Lower	Upper
164	100		
129	95.5	65.3	121.3
131	93.5	63.1	117.1
166	127.8	90.8	168.6

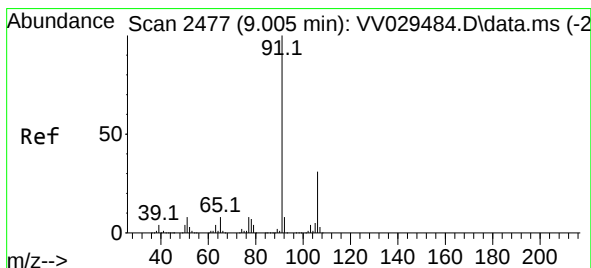
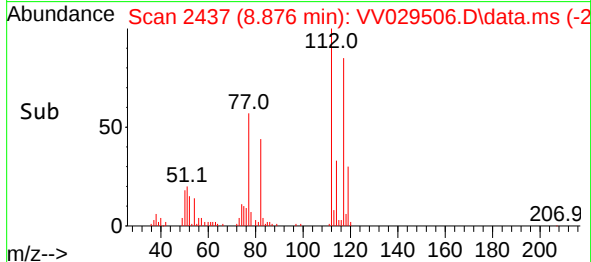
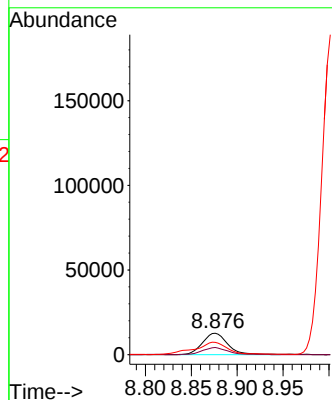
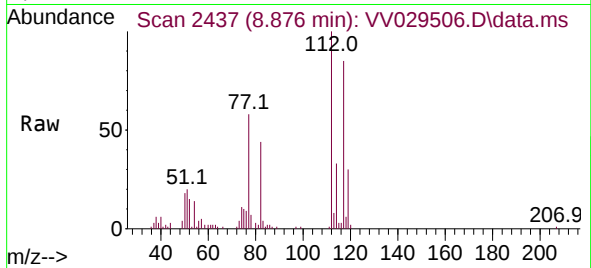




#51
Chlorobenzene
Concen: 2.495 ug/L
RT: 8.876 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

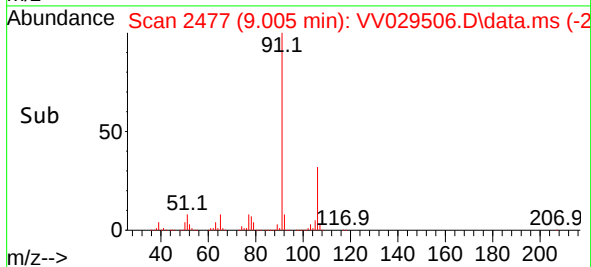
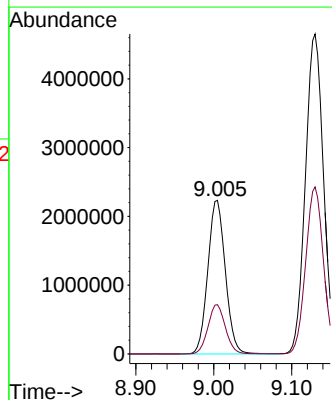
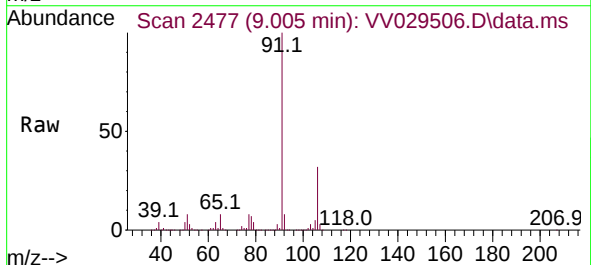
Instrument :
MSVOA_V
ClientSampleId :
EXZ66

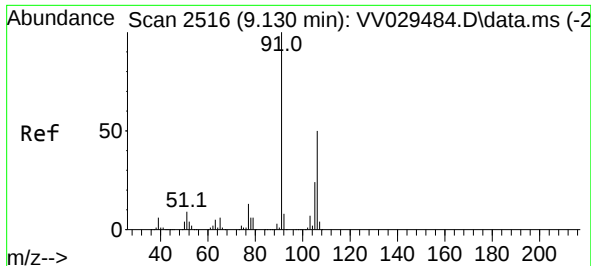
Tgt Ion:112 Resp: 24050
Ion Ratio Lower Upper
112 100
114 33.1 22.3 41.3
77 57.7 45.0 67.4



#52
Ethylbenzene
Concen: 217.852 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion: 91 Resp: 3486644
Ion Ratio Lower Upper
91 100
106 32.1 21.8 40.6

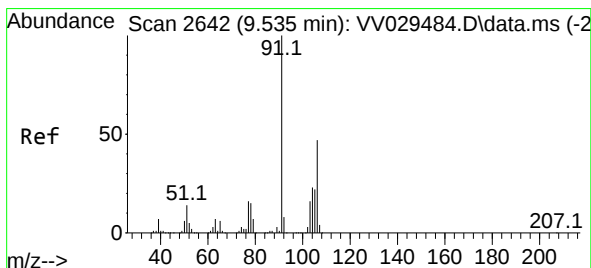
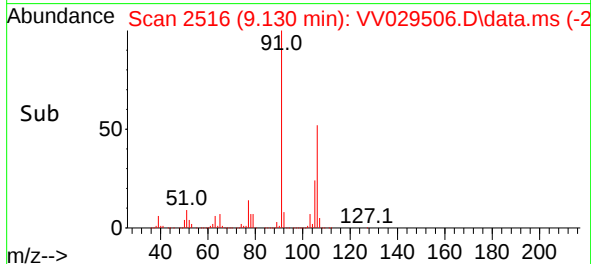
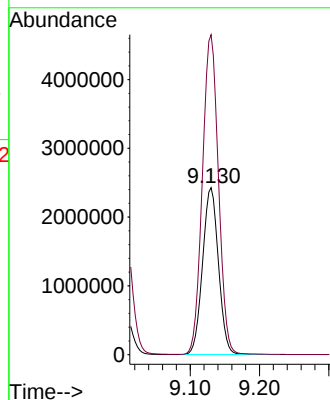
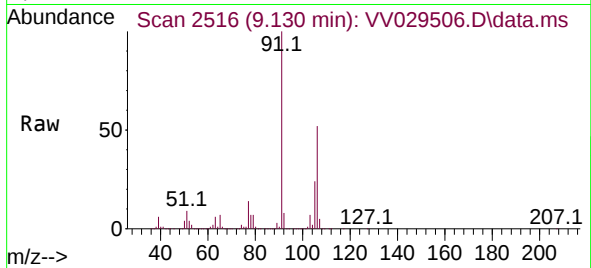




#53
m,p-Xylene
Concen: 610.292 ug/L
RT: 9.130 min Scan# 2516
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

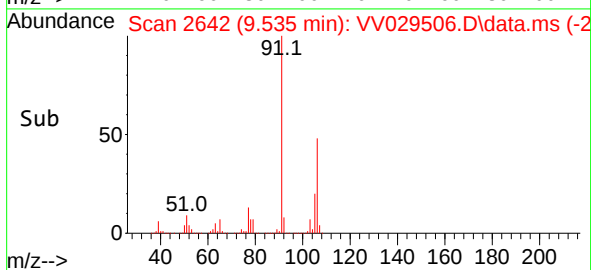
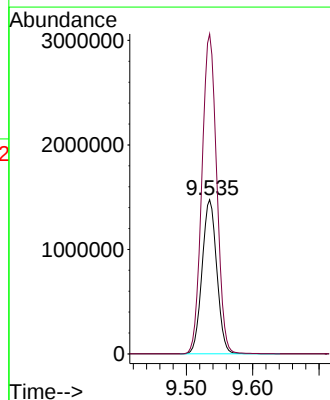
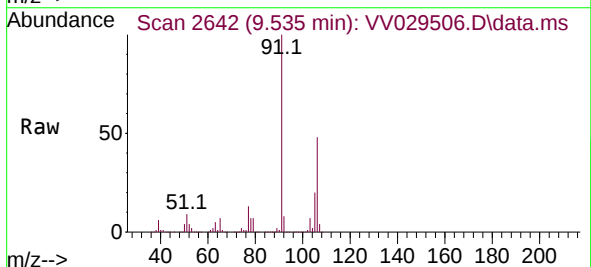
Instrument :
MSVOA_V
ClientSampleId :
EXZ66

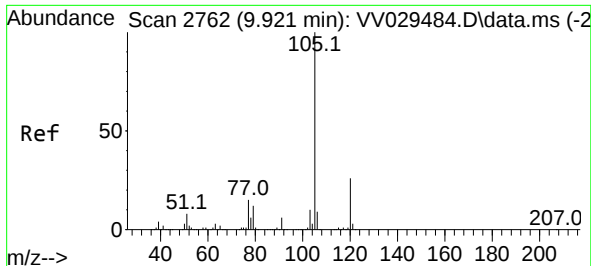
Tgt Ion:106 Resp: 3865852
Ion Ratio Lower Upper
106 100
91 191.7 139.5 259.1



#54
o-Xylene
Concen: 362.372 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion:106 Resp: 2270546
Ion Ratio Lower Upper
106 100
91 207.6 148.0 274.8

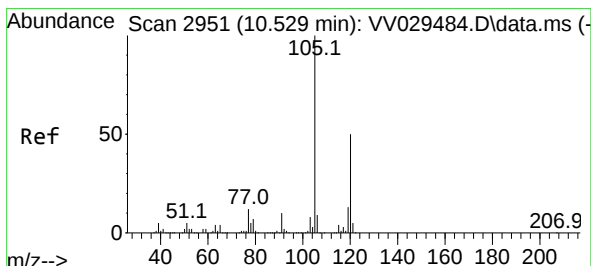
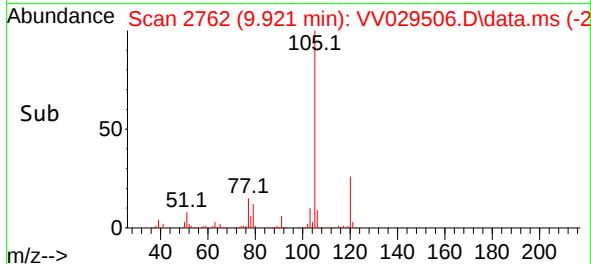
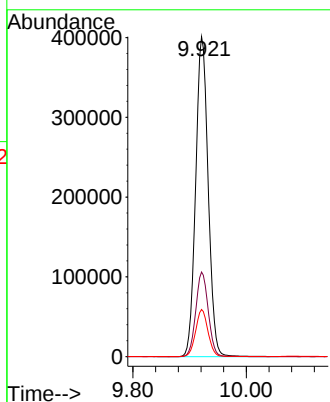
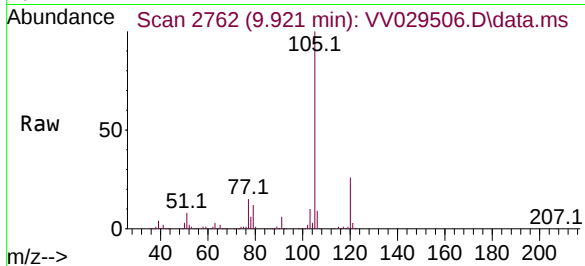




#60
Isopropylbenzene
Concen: 38.049 ug/L
RT: 9.921 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

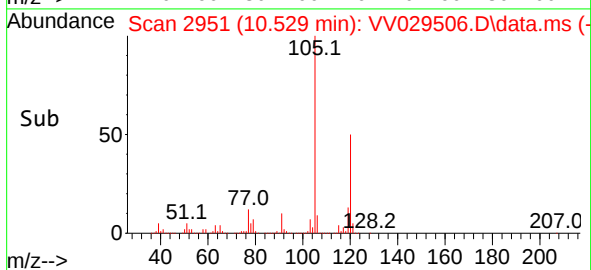
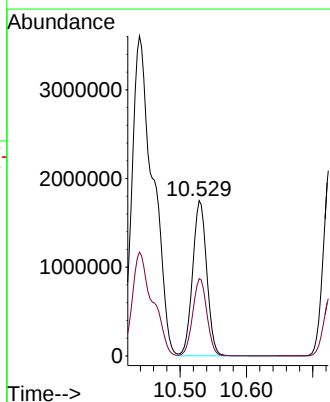
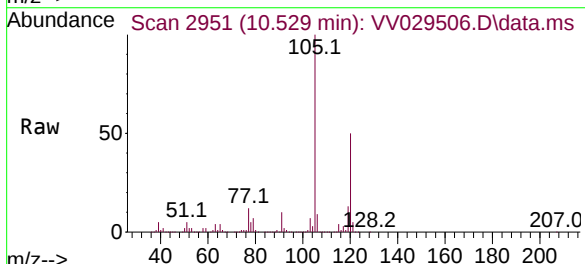
Instrument :
MSVOA_V
ClientSampleId :
EXZ66

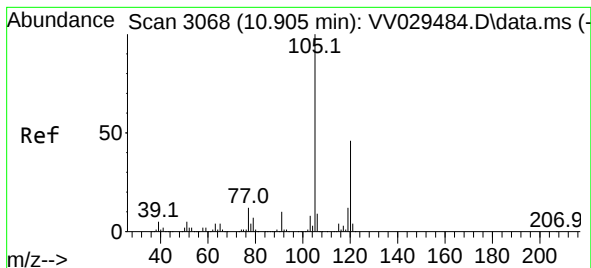
Tgt Ion:105 Resp: 612837
Ion Ratio Lower Upper
105 100
120 26.4 21.1 31.7
77 14.4 11.6 17.4



#62
1,3,5-Trimethylbenzene
Concen: 181.744 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VV029506.D
Acq: 09 Dec 2022 04:22

Tgt Ion:105 Resp: 2588229
Ion Ratio Lower Upper
105 100
120 49.9 40.0 60.0





#63

1,2,4-Trimethylbenzene

Concen: 815.345 ug/L

RT: 10.908 min Scan# 3068

Delta R.T. 0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

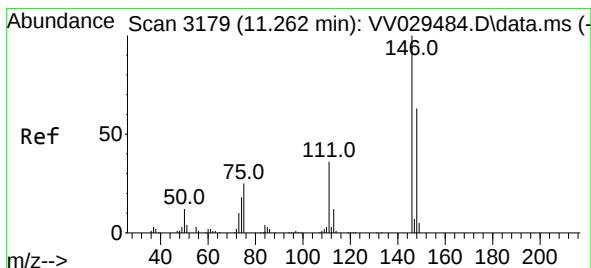
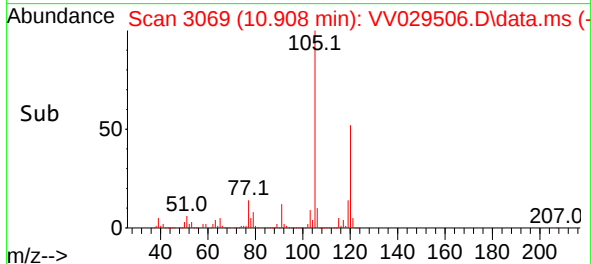
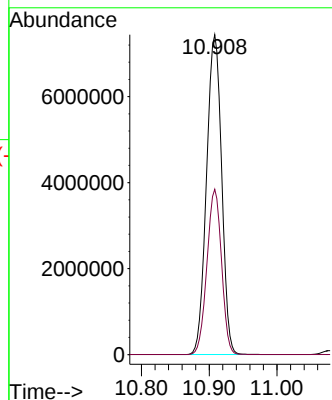
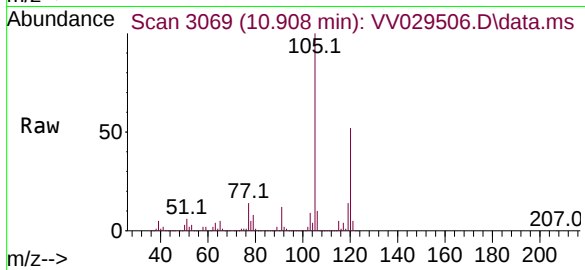
EXZ66

Tgt Ion:105 Resp:11509866

Ion Ratio Lower Upper

105 100

120 49.8 36.7 55.1



#65

1,4-Dichlorobenzene

Concen: 2.341 ug/L

RT: 11.265 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VV029506.D

Acq: 09 Dec 2022 04:22

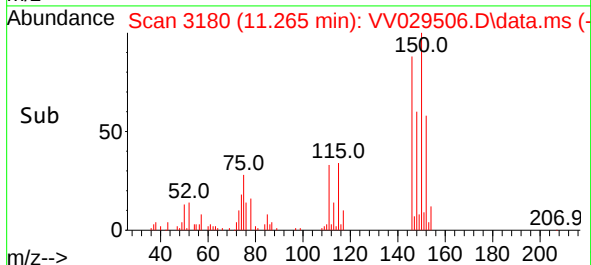
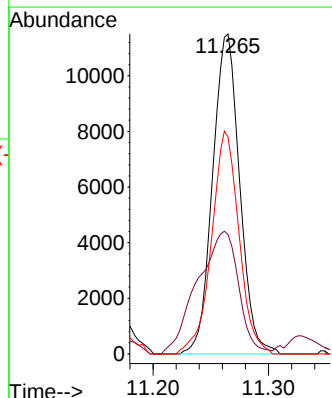
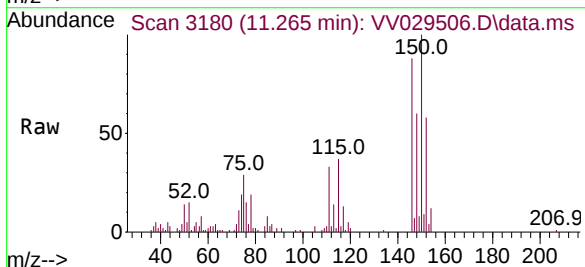
Tgt Ion:146 Resp: 18736

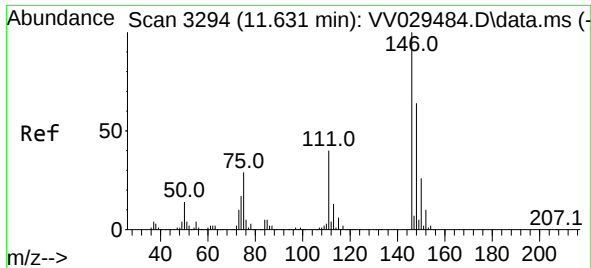
Ion Ratio Lower Upper

146 100

111 37.3 26.2 48.8

148 67.7 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 36.041 ug/L

RT: 11.632 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV029506.D

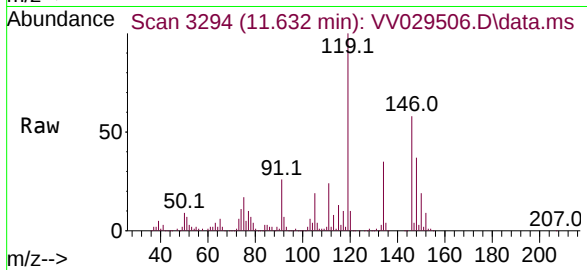
Acq: 09 Dec 2022 04:22

Instrument :

MSVOA_V

ClientSampleId :

EXZ66



Tgt Ion:146 Resp: 290242

Ion Ratio Lower Upper

146 100

111 41.1 32.0 48.0

148 63.8 50.6 76.0

