

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011422\
 Data File : VW024363.D
 Acq On : 14 Jan 2022 16:03
 Operator : SY/MD
 Sample : N1115-18ME
 Misc : 6.06g/5.0mL/100uL/5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 17 07:19:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM123121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 13 02:28:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	381820	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.860	117	359386	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.255	152	210446	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	104721	38.109	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.220%
7) Chloroethane-d5	1.564	69	81070	38.837	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.680%
11) 1,1-Dichloroethene-d2	2.082	63	175217	34.117	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.240%
21) 2-Butanone-d5	3.892	46	148088	96.728	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.730%
24) Chloroform-d	4.346	84	291238	57.990	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.980%
26) 1,2-Dichloroethane-d4	5.027	65	163680	48.678	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.360%
32) Benzene-d6	5.043	84	489466	52.191	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.380%
36) 1,2-Dichloropropane-d6	6.069	67	138724	52.780	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.560%
41) Toluene-d8	7.313	98	476276	52.451	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.900%
43) trans-1,3-Dichloroprop...	7.622	79	87447	57.779	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	115.560%
47) 2-Hexanone-d5	8.098	63	25157	22.031	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	22.030%#
56) 1,1,2,2-Tetrachloroeth...	10.233	84	251441	66.942	ug/L	0.02
Spiked Amount	50.000	Range	65 - 120	Recovery	=	133.880%#
66) 1,2-Dichlorobenzene-d4	11.632	152	226642	54.030	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.060%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.085	101	2002	0.832	ug/L #	21
20) cis-1,2-Dichloroethene	3.908	96	6261	2.446	ug/L	90
25) Chloroform	4.394	83	844023	181.605	ug/L #	20
29) Cyclohexane	4.657	56	90511	28.174	ug/L #	61
33) Benzene	5.095	78	30227	3.308	ug/L	100
35) Methylcyclohexane	6.124	83	230013	61.545	ug/L	92
37) 1,2-Dichloropropane	5.924	63	7991	3.718	ug/L	97
38) Bromodichloromethane	6.561	83	19576	5.804	ug/L #	27
40) 4-Methyl-2-pentanone	7.259	43	23942	8.542	ug/L #	53
42) Toluene	7.387	91	793628	77.367	ug/L	99
44) trans-1,3-Dichloropropene	7.625	75	4289	1.170	ug/L #	31
45) 1,1,2-Trichloroethane	7.786	97	84046	34.880	ug/L #	21
46) Tetrachloroethene	7.976	164	3802	1.658	ug/L	93
51) Chlorobenzene	8.886	112	471542	68.249	ug/L	99
53) m,p-Xylene	9.027	106	8975280	2043.254	ug/L	92
54) o-Xylene	9.558	106	8984884	2142.749	ug/L	69
55) Styrene	9.558	104	462716	63.544	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.246	83	128577	36.543	ug/L #	38
60) Isopropylbenzene	10.747	105	5232572	449.336	ug/L	94

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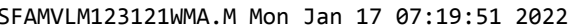
Instrument :
 MSVOA_V
 ClientSampleId :

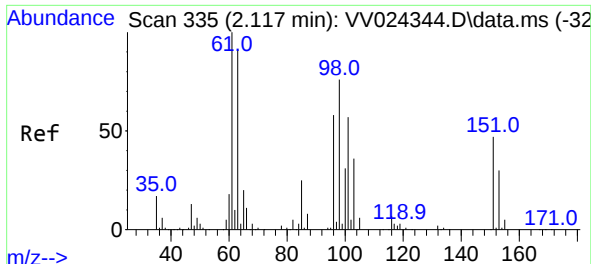
Quant Time: Jan 17 07:19:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM123121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 13 02:28:22 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.551	105	7887131	787.374	ug/L	98
65) 1,4-Dichlorobenzene	11.281	146	17217	2.780	ug/L #	1
67) 1,2-Dichlorobenzene	11.651	146	1046807	169.162	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.419	75	17324	19.465	ug/L #	1
70) 1,2,4-trichlorobenzene	13.271	180	143838	36.416	ug/L #	77
71) Naphthalene	13.393	128	59910	5.243	ug/L #	1
72) 1,2,3-Trichlorobenzene	13.750	180	29840	7.310	ug/L #	1

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

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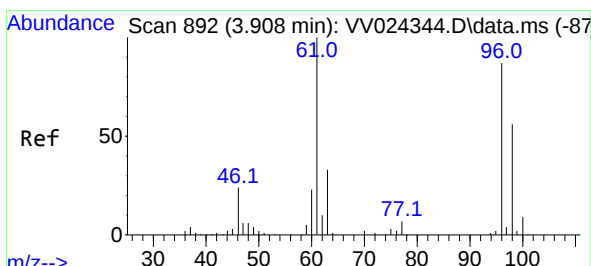
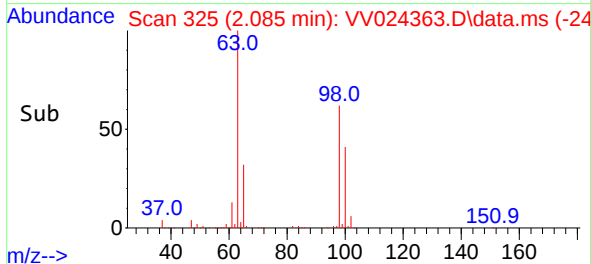
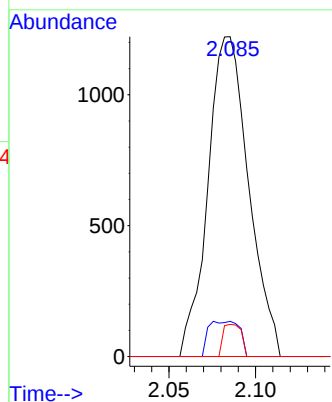
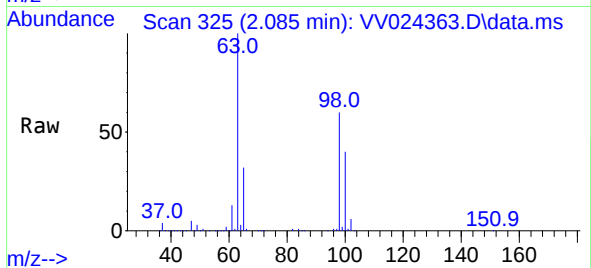




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.832 ug/L
RT: 2.085 min Scan# 31
Delta R.T. -0.035 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

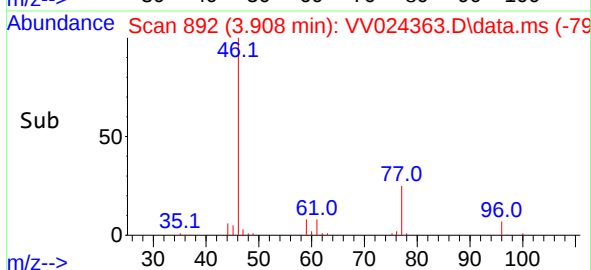
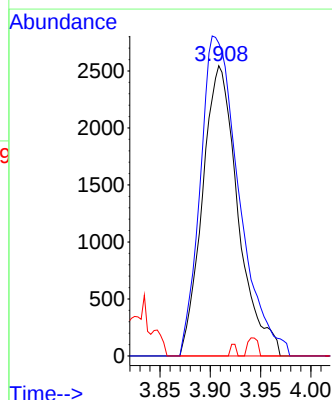
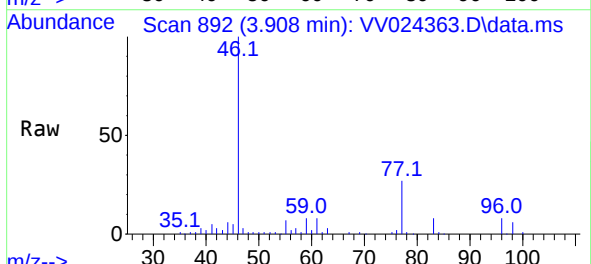
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ClientSampleId :

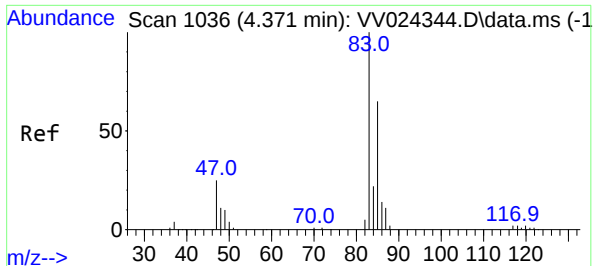
Tgt Ion:101 Resp: 2002
Ion Ratio Lower Upper
101 100
85 3.6 35.3 52.9#
151 4.5 67.1 100.7#



#20
cis-1,2-Dichloroethene
Concen: 2.446 ug/L
RT: 3.908 min Scan# 892
Delta R.T. -0.000 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion: 96 Resp: 6261
Ion Ratio Lower Upper
96 100
61 107.8 82.9 153.9
68 0.0 0.0 0.0





#25

Chloroform

Concen: 181.605 ug/L

RT: 4.394 min Scan# 110

Delta R.T. 0.022 min

Lab File: VV024363.D

Acq: 14 Jan 2022 16:03

Instrument :

MSVOA_V

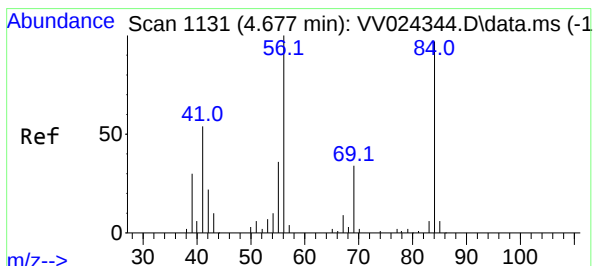
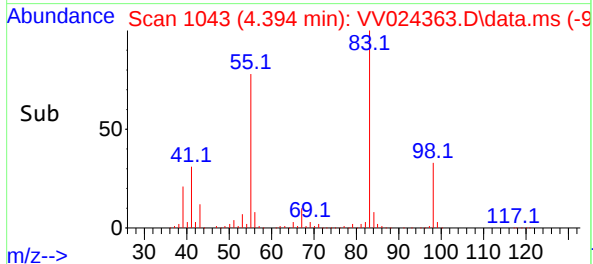
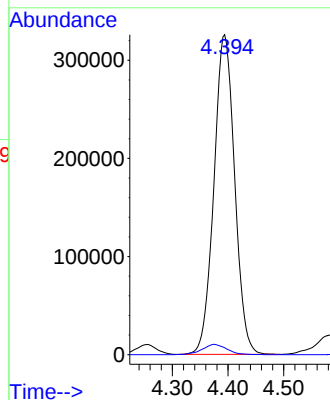
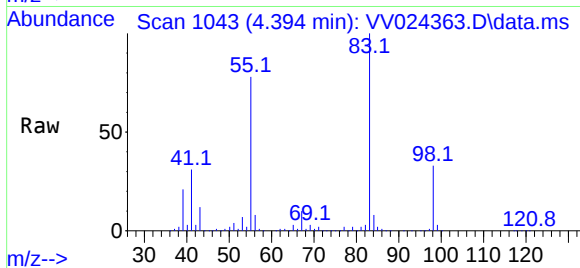
ClientSampleId :

Tgt Ion: 83 Resp: 844023

Ion Ratio Lower Upper

83 100

85 2.1 46.3 85.9#



#29

Cyclohexane

Concen: 28.174 ug/L

RT: 4.657 min Scan# 1125

Delta R.T. -0.019 min

Lab File: VV024363.D

Acq: 14 Jan 2022 16:03

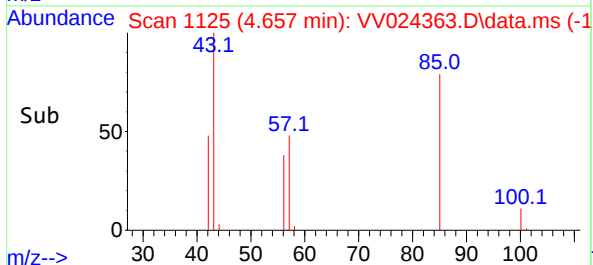
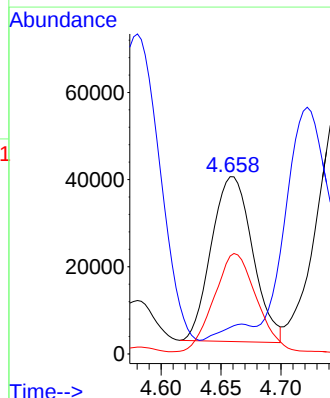
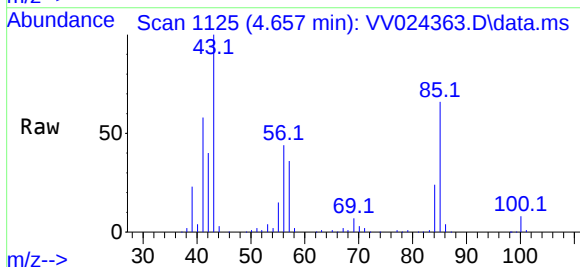
Tgt Ion: 56 Resp: 90511

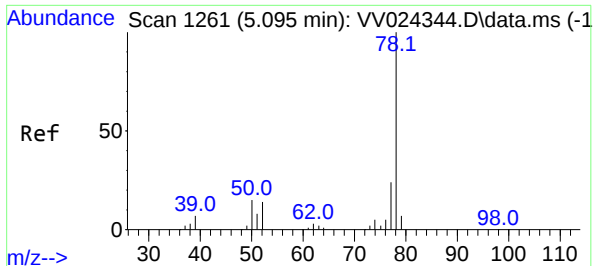
Ion Ratio Lower Upper

56 100

69 7.1 25.8 38.6#

84 62.7 79.1 118.7#

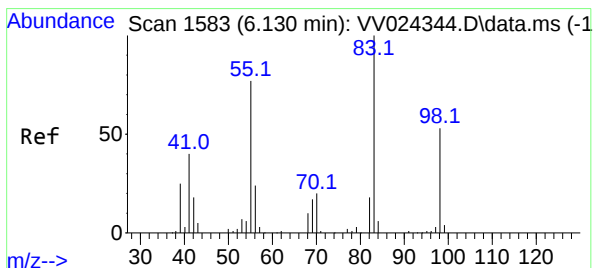
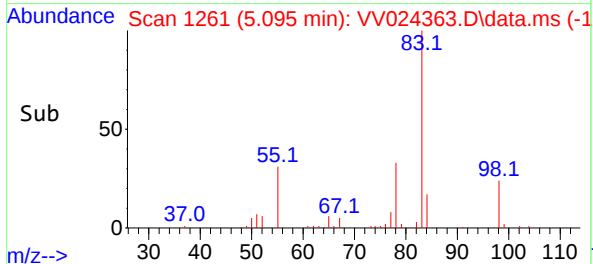
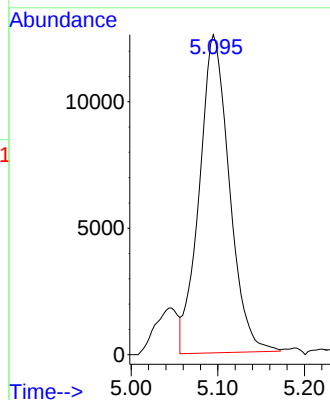
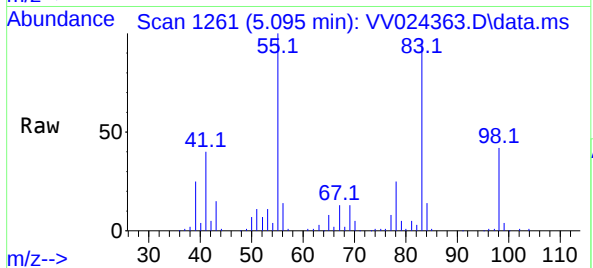




#33
Benzene
Concen: 3.308 ug/L
RT: 5.095 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

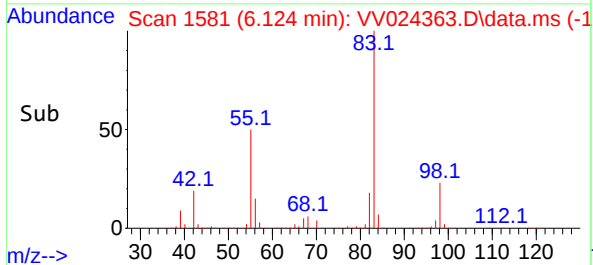
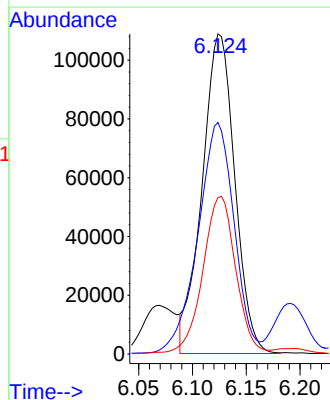
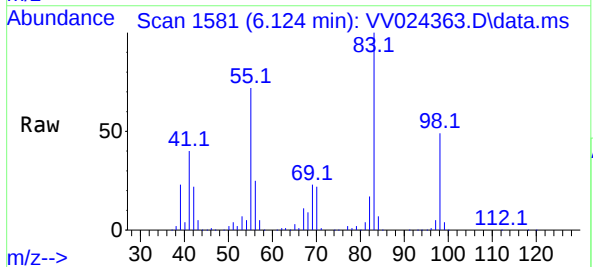
Instrument :
MSVOA_V
ClientSampleId :

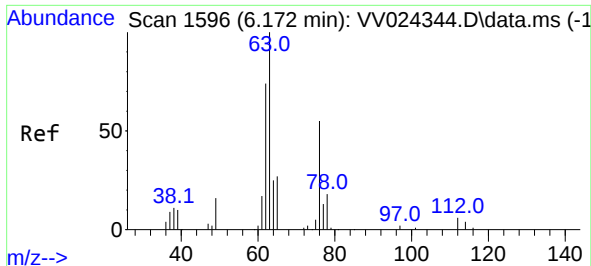
Tgt Ion: 78 Resp: 30227



#35
Methylcyclohexane
Concen: 61.545 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. -0.003 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion: 83 Resp: 230013
Ion Ratio Lower Upper
83 100
55 79.8 55.6 83.4
98 50.0 41.3 61.9

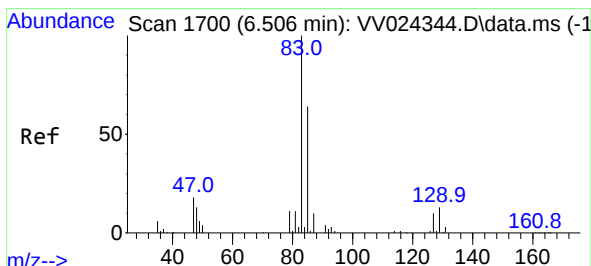
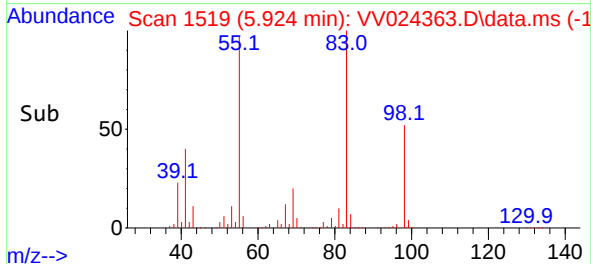
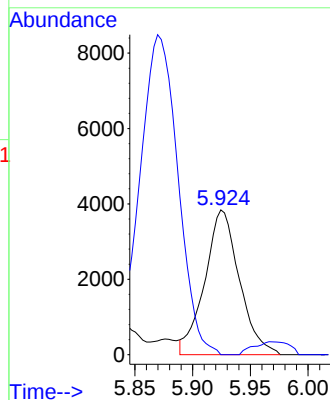
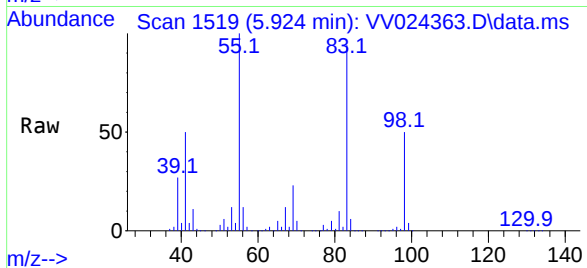




#37
1,2-Dichloropropane
Concen: 3.718 ug/L
RT: 5.924 min Scan# 11
Delta R.T. -0.244 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

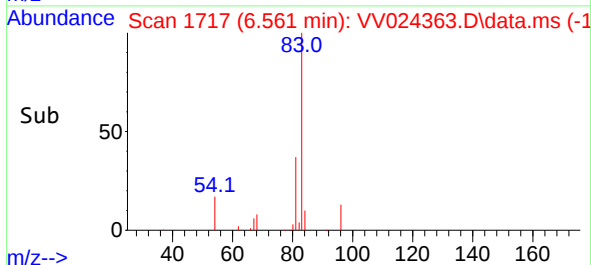
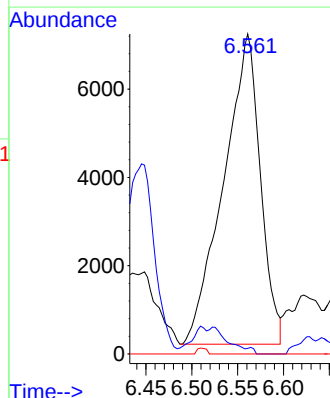
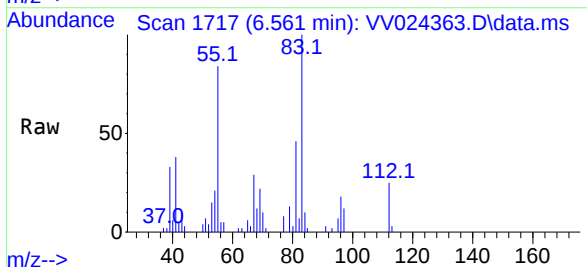
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MSVOA_V
ClientSampleId :

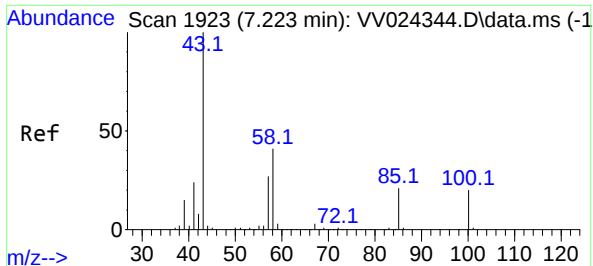
Tgt Ion: 63 Resp: 7991
Ion Ratio Lower Upper
63 100
112 7.0 4.7 7.1



#38
Bromodichloromethane
Concen: 5.804 ug/L
RT: 6.561 min Scan# 1717
Delta R.T. 0.055 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion: 83 Resp: 19576
Ion Ratio Lower Upper
83 100
85 1.8 45.2 84.0#
127 0.0 7.8 11.8#

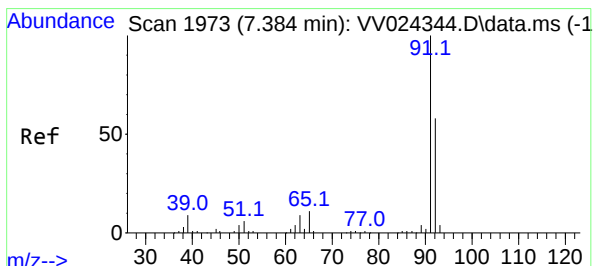
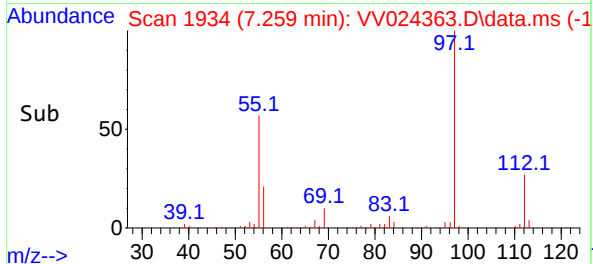
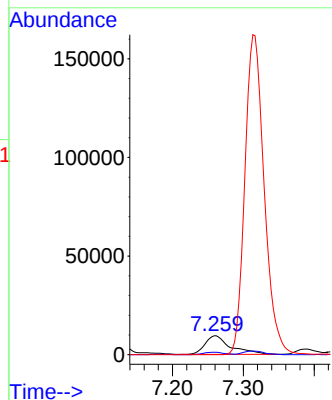
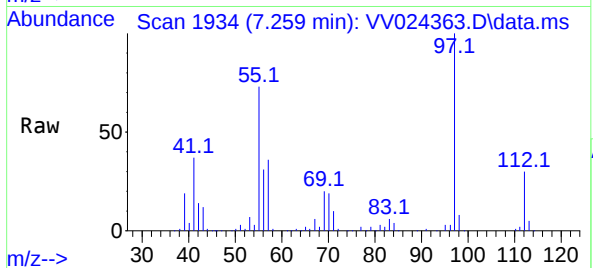




#40
4-Methyl-2-pentanone
Concen: 8.542 ug/L
RT: 7.259 min Scan# 1923
Delta R.T. 0.035 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

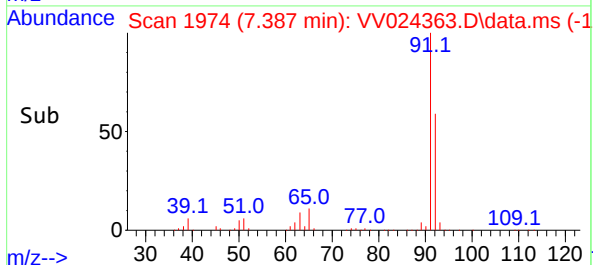
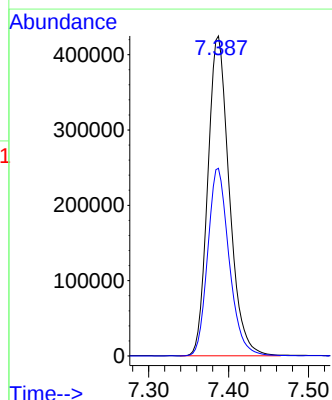
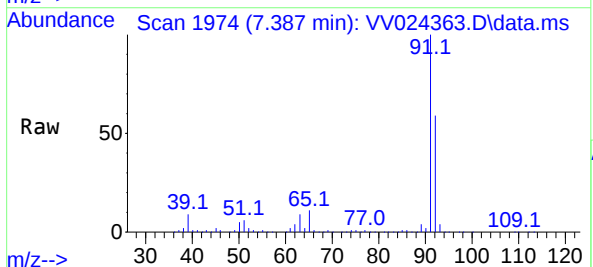
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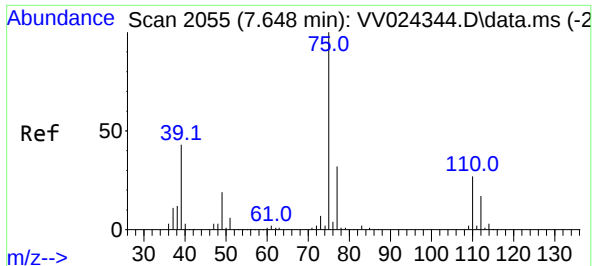
Tgt Ion: 43 Resp: 23942
Ion Ratio Lower Upper
43 100
58 10.3 33.0 49.4#
100 0.0 16.0 24.0#



#42
Toluene
Concen: 77.367 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. 0.003 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion: 91 Resp: 793628
Ion Ratio Lower Upper
91 100
92 58.7 40.4 75.0

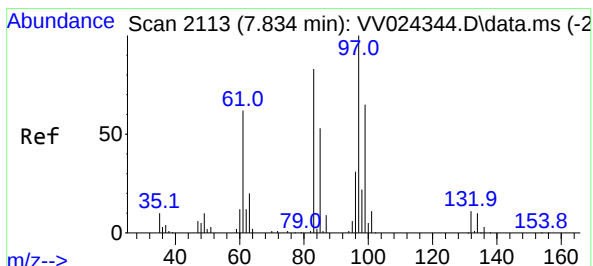
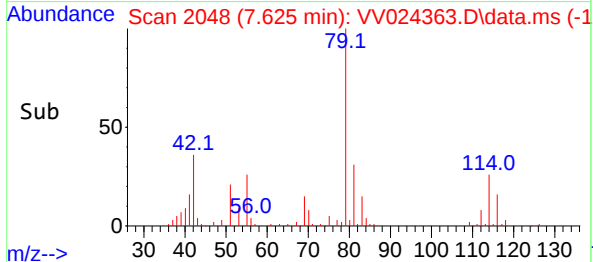
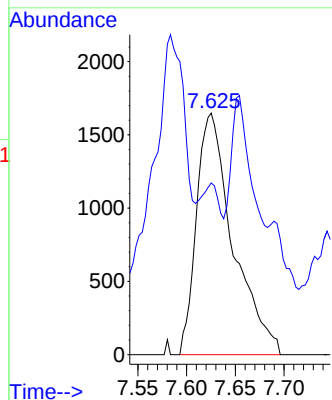
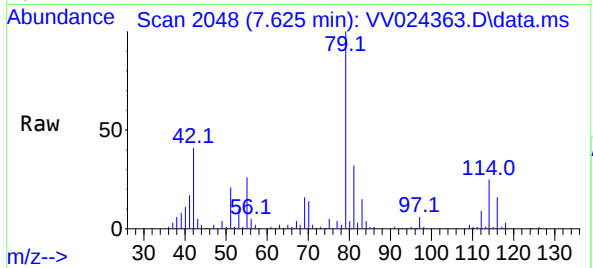




#44
trans-1,3-Dichloropropene
Concen: 1.170 ug/L
RT: 7.625 min Scan# 2055
Delta R.T. -0.023 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

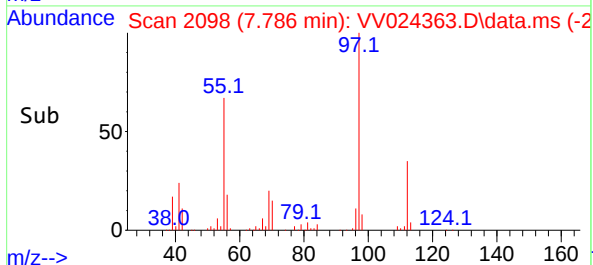
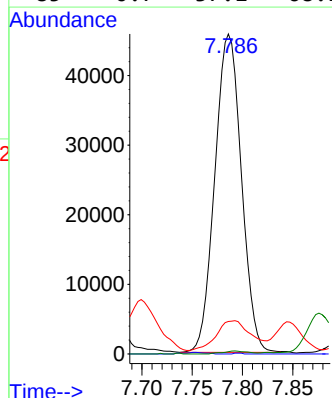
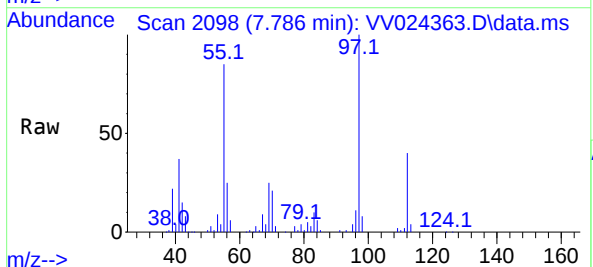
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ClientSampleId :

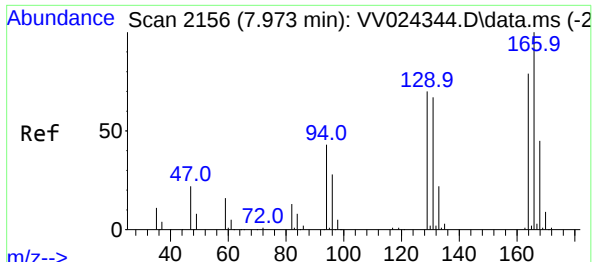
Tgt Ion: 75 Resp: 4289
Ion Ratio Lower Upper
75 100
77 71.0 22.7 42.1#



#45
1,1,2-Trichloroethane
Concen: 34.880 ug/L
RT: 7.786 min Scan# 2098
Delta R.T. -0.048 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

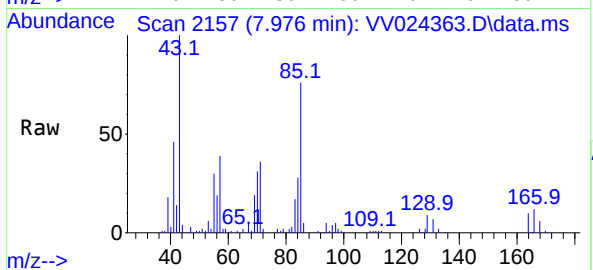
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99 0.0 42.4 78.8#
83 10.2 57.9 107.5#
85 0.7 37.1 68.9#





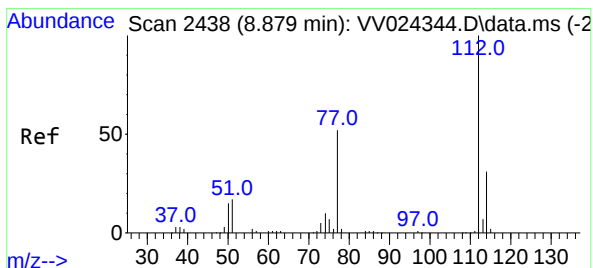
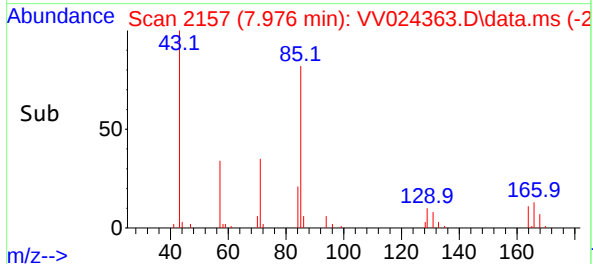
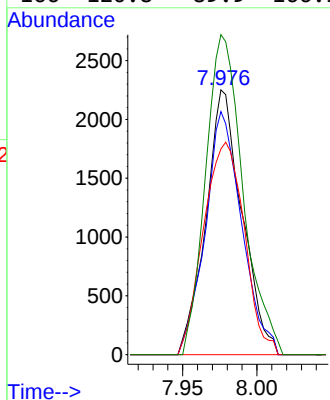
#46
Tetrachloroethene
Concen: 1.658 ug/L
RT: 7.976 min Scan# 2156
Delta R.T. 0.003 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:164 Resp: 3802

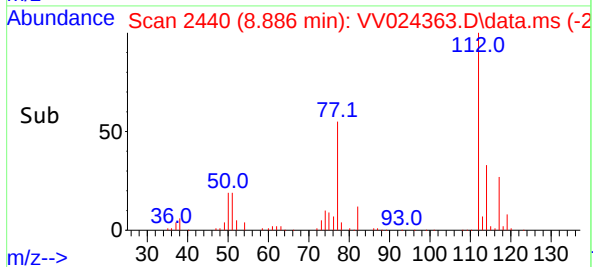
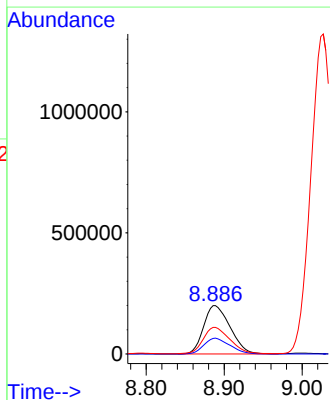
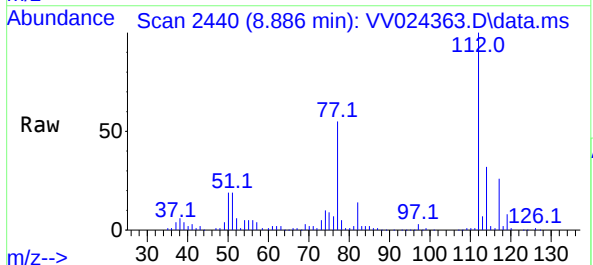
Ion	Ratio	Lower	Upper
164	100		
129	91.8	61.5	114.1
131	77.7	62.2	115.4
166	120.8	89.9	166.9

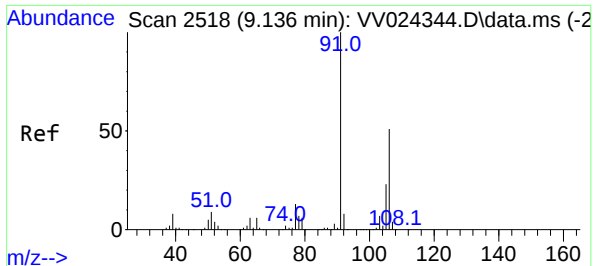


#51
Chlorobenzene
Concen: 68.249 ug/L
RT: 8.886 min Scan# 2440
Delta R.T. 0.006 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion:112 Resp: 471542

Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.3	41.5
77	54.9	42.8	64.2





#53

m,p-Xylene

Concen: 2043.254 ug/L

RT: 9.027 min Scan# 2484

Delta R.T. -0.109 min

Lab File: VV024363.D

Acq: 14 Jan 2022 16:03

Instrument :

MSVOA_V

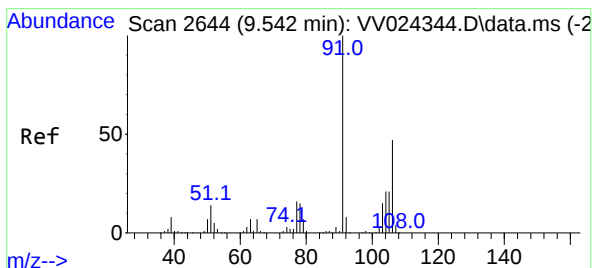
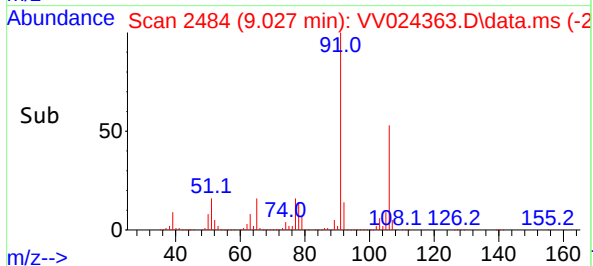
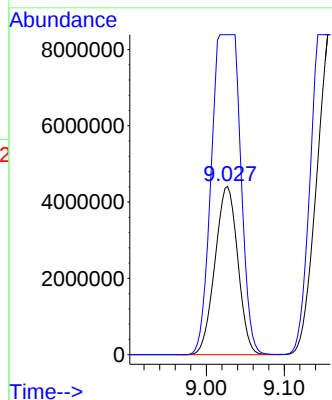
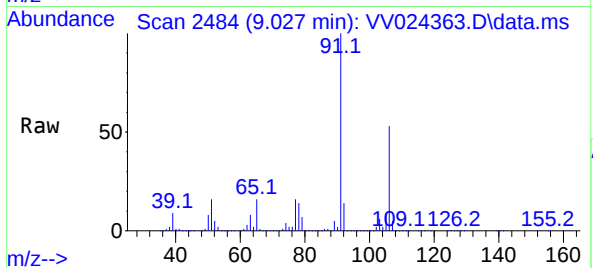
ClientSampleId :

Tgt Ion:106 Resp: 8975280

Ion Ratio Lower Upper

106 100

91 190.0 141.8 263.4



#54

o-Xylene

Concen: 2142.749 ug/L

RT: 9.558 min Scan# 2649

Delta R.T. 0.016 min

Lab File: VV024363.D

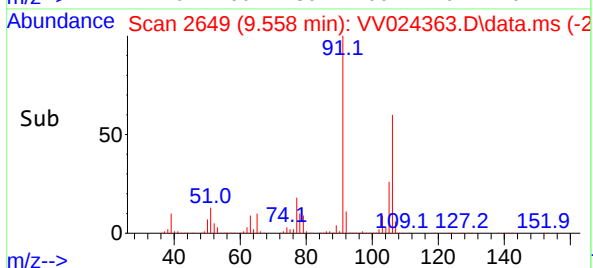
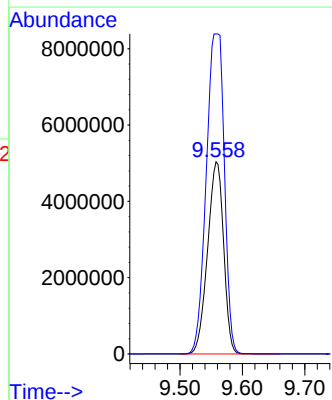
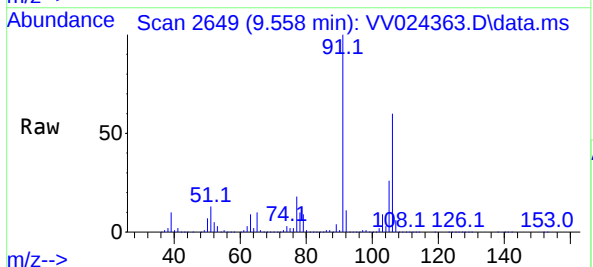
Acq: 14 Jan 2022 16:03

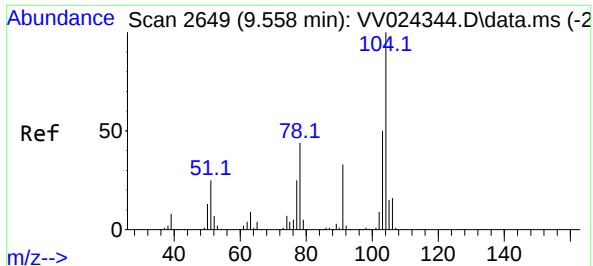
Tgt Ion:106 Resp: 8984884

Ion Ratio Lower Upper

106 100

91 166.6 150.9 280.3

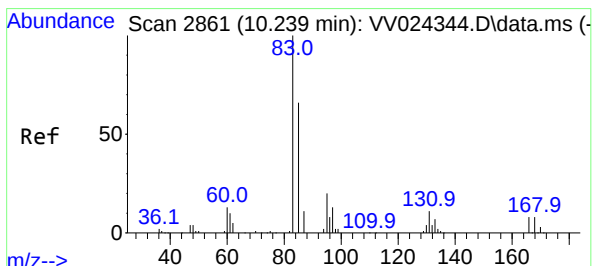
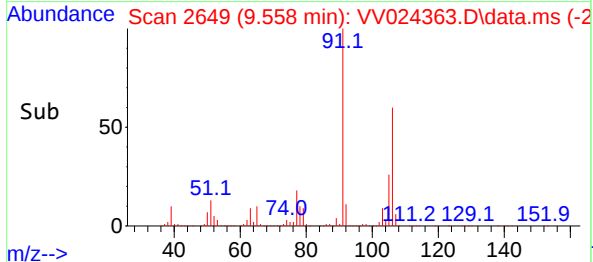
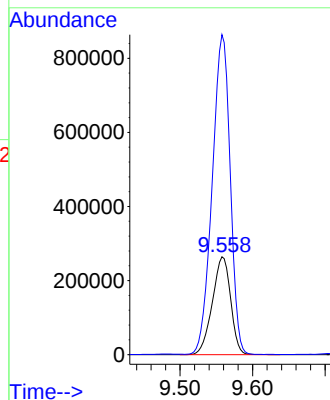
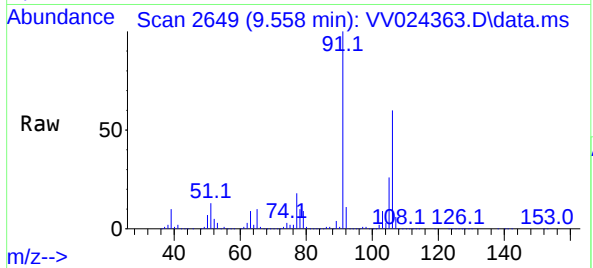




#55
Styrene
Concen: 63.544 ug/L
RT: 9.558 min Scan# 2649
Delta R.T. -0.000 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

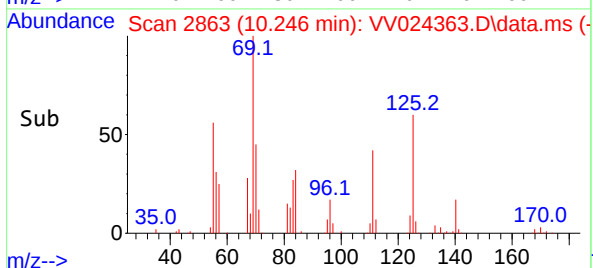
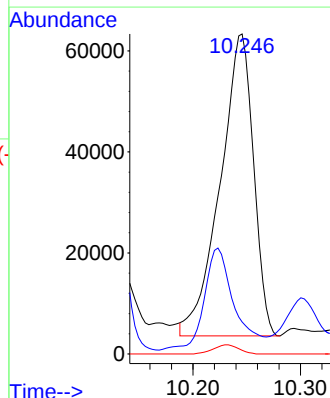
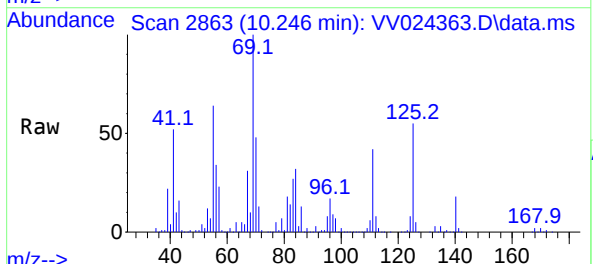
Instrument :
MSVOA_V
ClientSampleId :

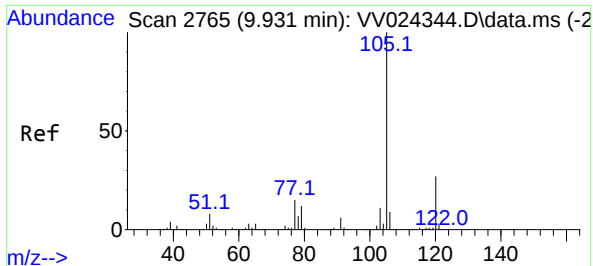
Tgt Ion:104 Resp: 462716
Ion Ratio Lower Upper
104 100
78 327.0 31.5 58.5#



#57
1,1,2,2-Tetrachloroethane
Concen: 36.543 ug/L
RT: 10.246 min Scan# 2863
Delta R.T. 0.006 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

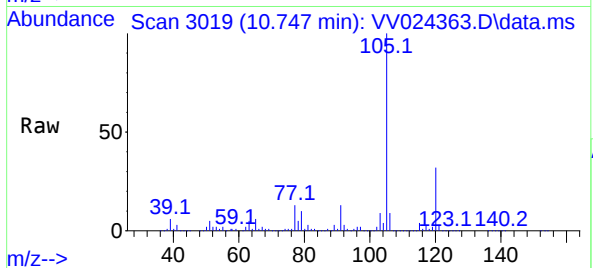
Tgt Ion: 83 Resp: 128577
Ion Ratio Lower Upper
83 100
85 10.0 44.5 82.7#
131 1.2 9.2 13.8#



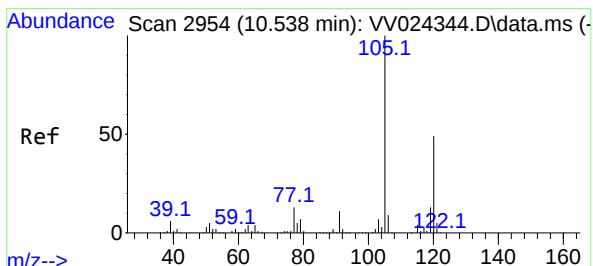
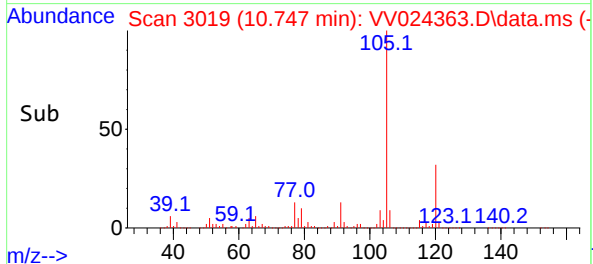
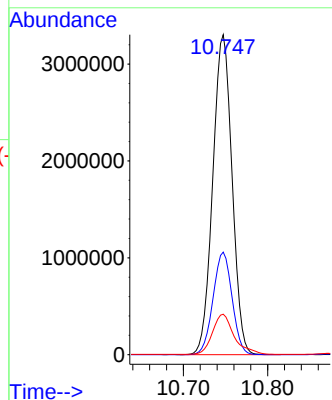


#60
Isopropylbenzene
Concen: 449.336 ug/L
RT: 10.747 min Scan# 30
Delta R.T. 0.820 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Instrument :
MSVOA_V
ClientSampleId :

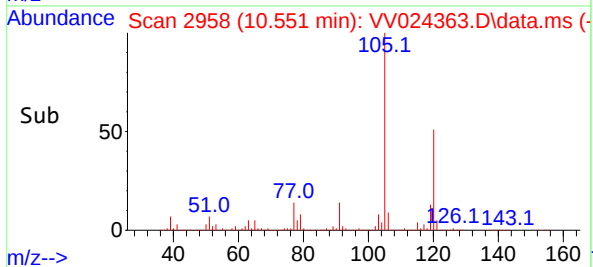
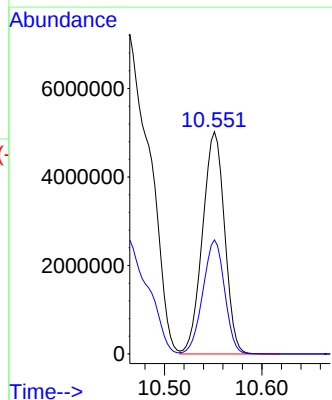
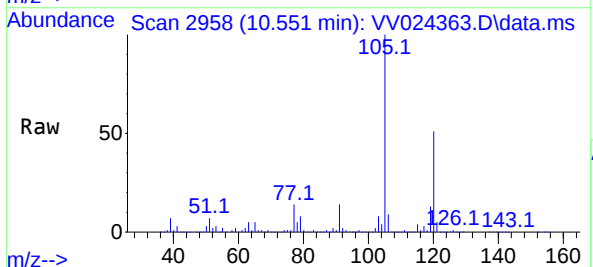


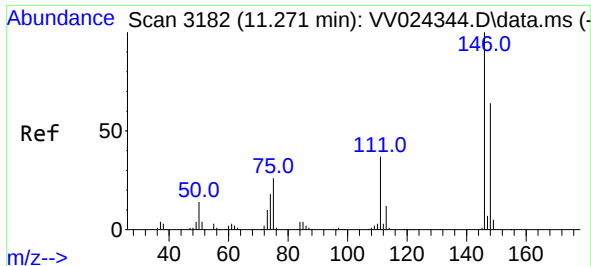
Tgt Ion:105 Resp: 5232572
Ion Ratio Lower Upper
105 100
120 31.7 21.9 32.9
77 14.2 11.9 17.9



#62
1,3,5-Trimethylbenzene
Concen: 787.374 ug/L
RT: 10.551 min Scan# 2958
Delta R.T. 0.013 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion:105 Resp: 7887131
Ion Ratio Lower Upper
105 100
120 50.6 39.4 59.2

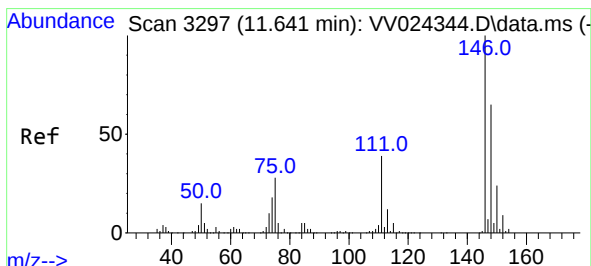
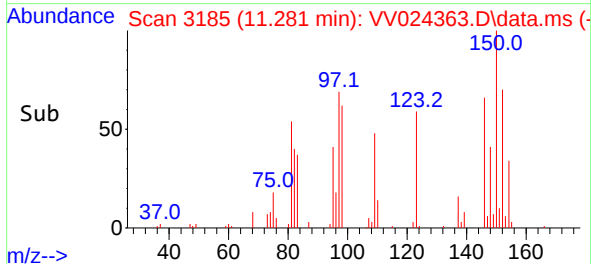
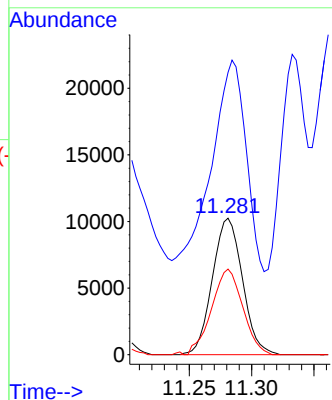
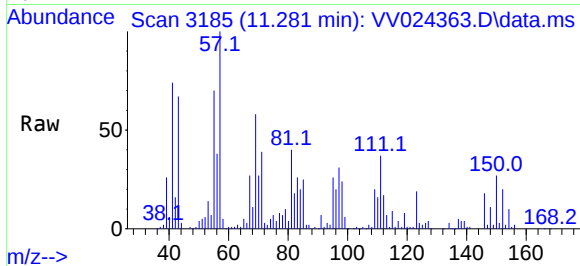




#65
1,4-Dichlorobenzene
Concen: 2.780 ug/L
RT: 11.281 min Scan# 3185
Delta R.T. 0.010 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

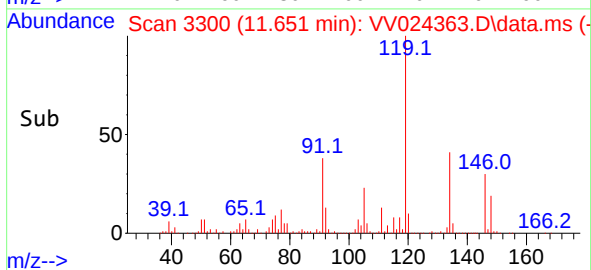
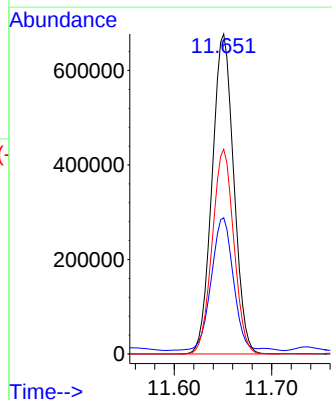
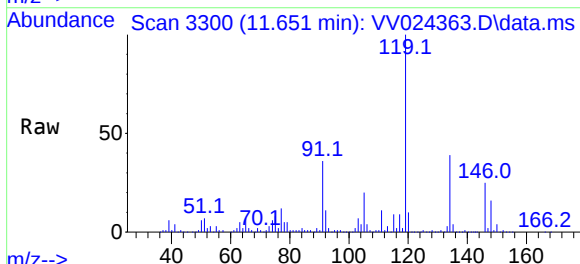
Instrument :
MSVOA_V
ClientSampleId :

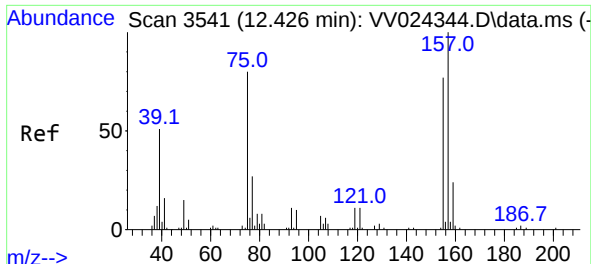
Tgt Ion:146 Resp: 17217
Ion Ratio Lower Upper
146 100
111 206.8 26.5 49.3#
148 62.7 44.9 83.5



#67
1,2-Dichlorobenzene
Concen: 169.162 ug/L
RT: 11.651 min Scan# 3300
Delta R.T. 0.010 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

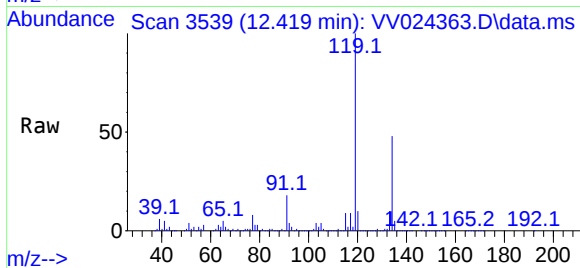
Tgt Ion:146 Resp: 1046807
Ion Ratio Lower Upper
146 100
111 42.6 32.0 48.0
148 64.0 51.6 77.4



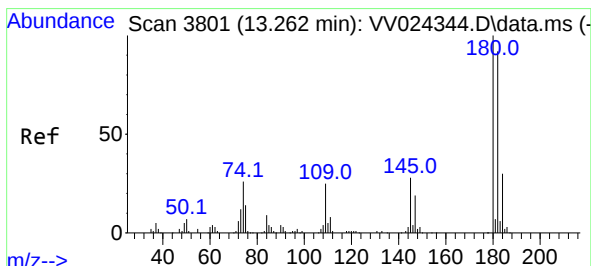
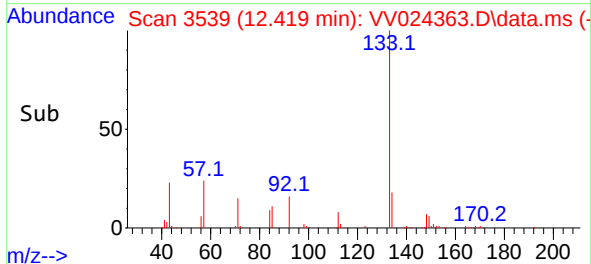
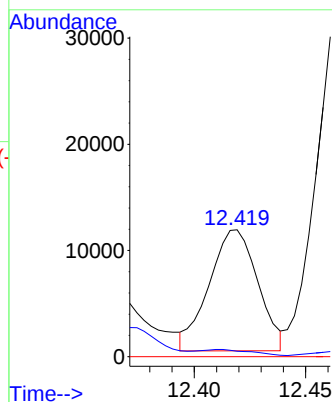


#68
 1,2-Dibromo-3-chloropropane
 Concen: 19.465 ug/L
 RT: 12.419 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VV024363.D
 Acq: 14 Jan 2022 16:03

Instrument :
 MSVOA_V
 ClientSampleId :

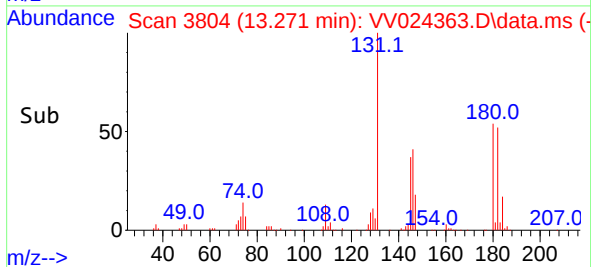
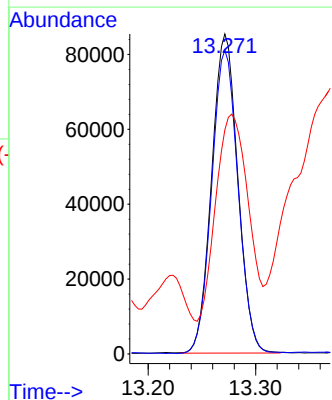
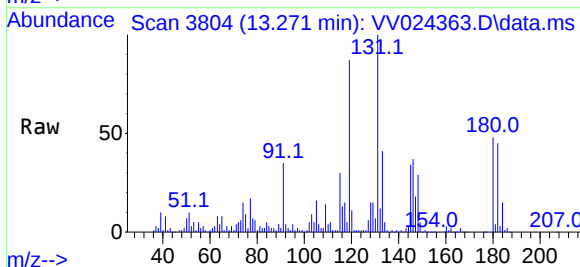


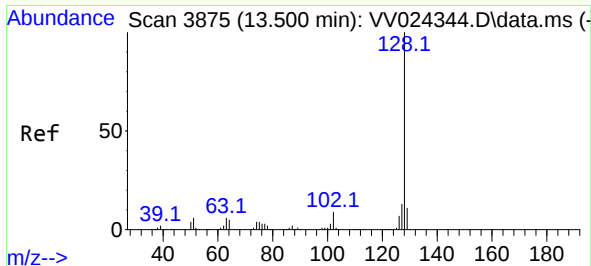
Tgt Ion: 75 Resp: 17324
 Ion Ratio Lower Upper
 75 100
 155 4.2 73.2 109.8#
 157 0.0 98.5 147.7#



#70
 1,2,4-trichlorobenzene
 Concen: 36.416 ug/L
 RT: 13.271 min Scan# 3804
 Delta R.T. 0.010 min
 Lab File: VV024363.D
 Acq: 14 Jan 2022 16:03

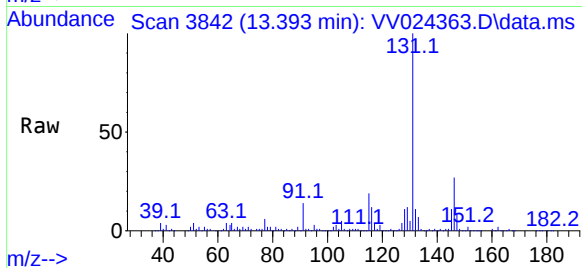
Tgt Ion:180 Resp: 143838
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.6 113.4
 145 79.2 23.9 35.9#



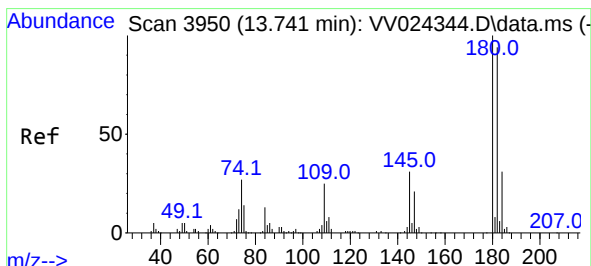
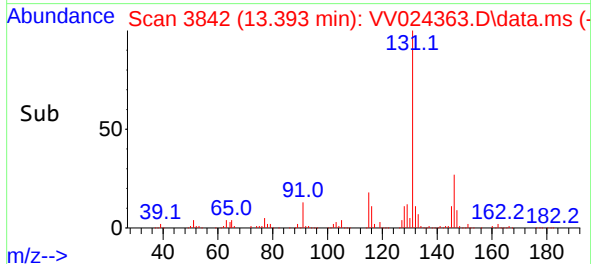
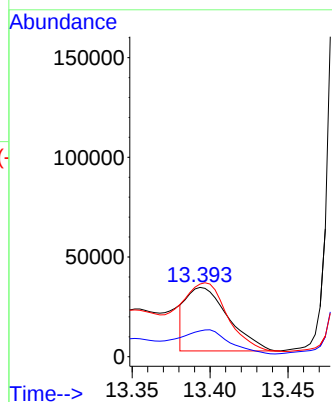


#71
Naphthalene
Concen: 5.243 ug/L
RT: 13.393 min Scan# 3842
Delta R.T. -0.106 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 59910
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 103.2 8.7 13.1#



#72
1,2,3-Trichlorobenzene
Concen: 7.310 ug/L
RT: 13.750 min Scan# 3953
Delta R.T. 0.006 min
Lab File: VV024363.D
Acq: 14 Jan 2022 16:03

Tgt Ion:180 Resp: 29840
Ion Ratio Lower Upper
180 100
182 96.7 76.1 114.1
145 330.0 25.0 37.4#

