

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW042821\
 Data File : VW018827.D
 Acq On : 28 Apr 2021 17:55
 Operator : SY/VA
 Sample : M2177-15
 Misc : 3.27G/10ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 29 00:16:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM041421SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Apr 29 00:13:39 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	422419	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	230007	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	81187	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	79195	12.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	49.36%
7) Chloroethane-d5	2.886	69	83778	14.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.92%
11) 1,1-Dichloroethene-d2	4.013	63	108483	9.73	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	38.92%#
21) 2-Butanone-d5	7.080	46	108848	74.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	148.98%#
24) Chloroform-d	7.647	84	245651	21.19	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.76%
26) 1,2-Dichloroethane-d4	8.305	65	149767	22.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.92%
32) Benzene-d6	8.275	84	385716	28.59	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	114.36%
36) 1,2-Dichloropropane-d6	9.275	67	140672	34.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	138.40%#
41) Toluene-d8	10.323	98	253045	20.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	82.04%
43) trans-1,3-Dichloroprop...	10.579	79	34273	19.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	79.20%
47) 2-Hexanone-d5	10.927	63	90990	128.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	257.38%#
56) 1,1,2,2-Tetrachloroeth...	12.695	84	130234	38.35	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	153.40%#
66) 1,2-Dichlorobenzene-d4	13.853	152	66561	23.34	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.36%
Target Compounds						
					Qvalue	
13) Acetone	4.135	43	66631	62.82	ug/L	86
14) Carbon disulfide	4.385	76	78102	4.73	ug/L	99
16) Methylene chloride	4.922	84	48888	7.06	ug/L	90
18) Methyl tert-butyl Ether	5.416	73	15501	1.94	ug/L #	74
22) 2-Butanone	7.184	43	24806	15.39	ug/L	99
29) Cyclohexane	7.946	56	2968	0.52	ug/L #	50
33) Benzene	8.324	78	28178	1.95	ug/L	100
35) Methylcyclohexane	9.336	83	51054	7.90	ug/L #	83
40) 4-Methyl-2-pentanone	10.207	43	7116	3.17	ug/L #	92
42) Toluene	10.390	91	7841	0.51	ug/L	100
45) 1,1,2-Trichloroethane	10.762	97	45356	16.72	ug/L #	31
48) 2-Hexanone	10.933	43	155597	109.57	ug/L #	26
51) Chlorobenzene	11.658	112	10382	1.09	ug/L #	84
52) Ethylbenzene	11.731	91	65070	3.80	ug/L	90
53) m,p-Xylene	11.841	106	51812	8.25	ug/L	88
54) o-Xylene	12.164	106	98175	16.28	ug/L	97
55) Styrene	12.164	104	6408	0.61	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.689	83	65922	19.51	ug/L #	17
60) Isopropylbenzene	12.463	105	170728	14.30	ug/L	97

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 Quant Title : SFAM01.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

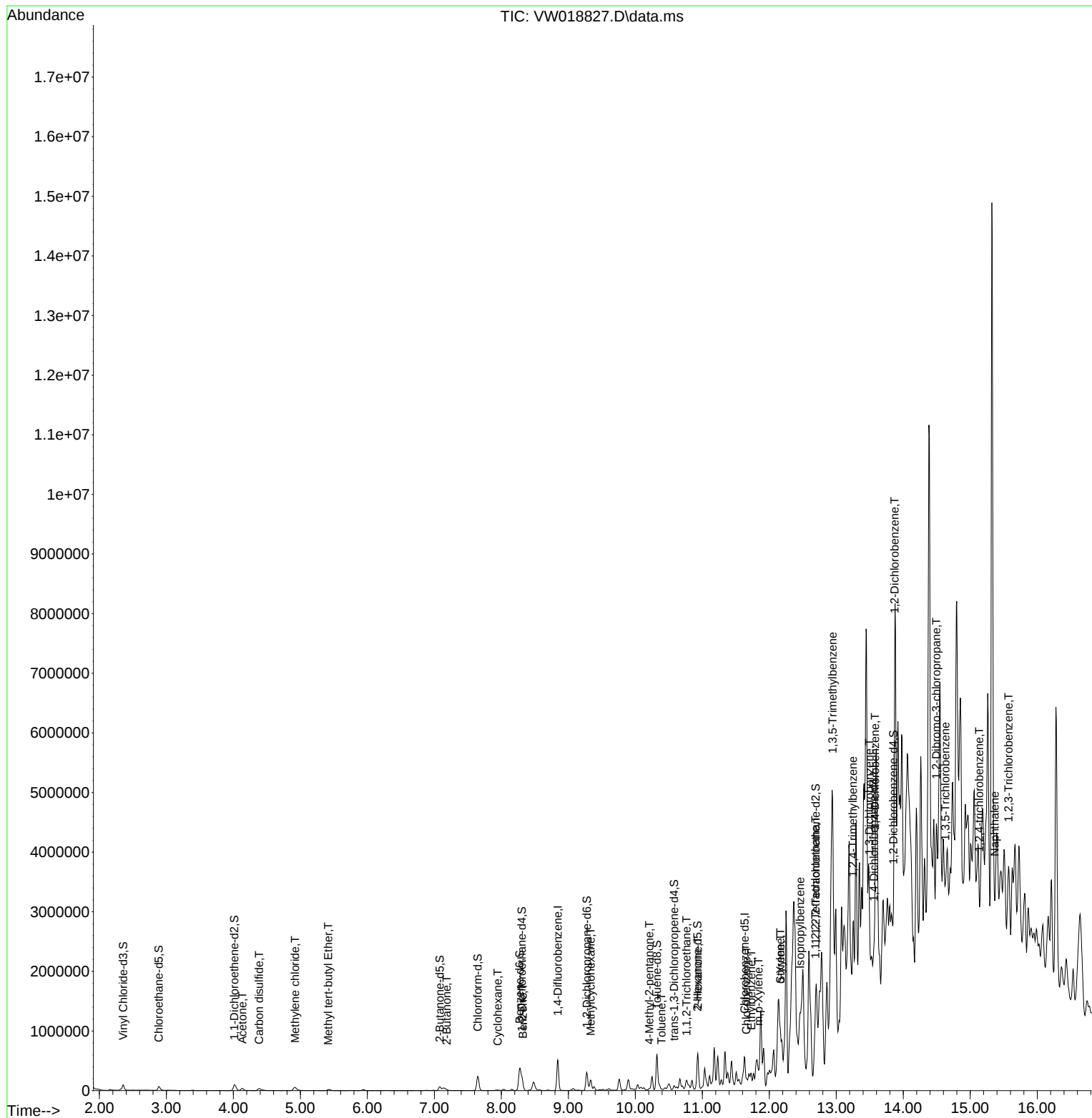
62) 1,3,5-Trimethylbenzene	12.945	105	307368	31.07	ug/L	97
63) 1,2,4-Trimethylbenzene	13.249	105	804558	81.51	ug/L	99
64) 1,3-Dichlorobenzene	13.493	146	8125	1.61	ug/L #	1
65) 1,4-Dichlorobenzene	13.579	146	21342	4.17	ug/L #	1
67) 1,2-Dichlorobenzene	13.871	146	11170	2.40	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.493	75	2152	5.58	ug/L #	49
69) 1,3,5-Trichlorobenzene	14.627	180	4410	1.22	ug/L #	13
70) 1,2,4-trichlorobenzene	15.133	180	4532	1.54	ug/L #	1
71) Naphthalene	15.365	128	314088	50.70	ug/L #	78
72) 1,2,3-Trichlorobenzene	15.572	180	13691	5.27	ug/L #	1

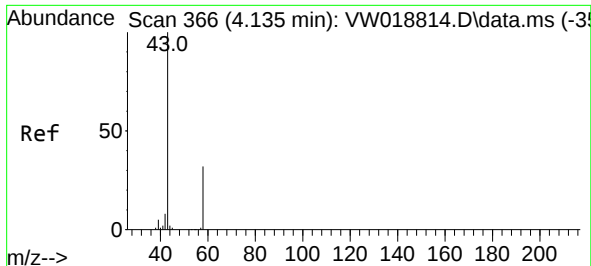
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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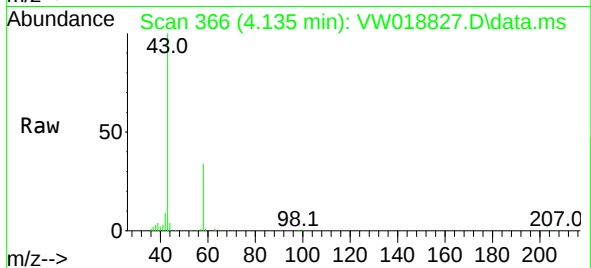
Quant Time: Apr 29 00:16:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM041421SMA.M
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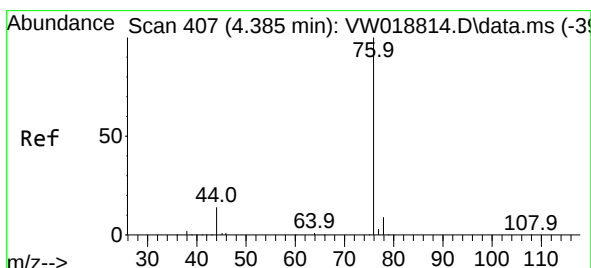
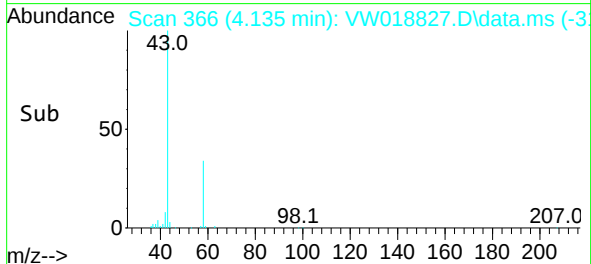
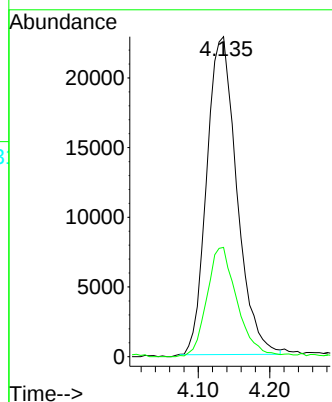


#13
Acetone
Concen: 62.82 ug/L
RT: 4.135 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Instrument :
MSVOA_W
ClientSampled :

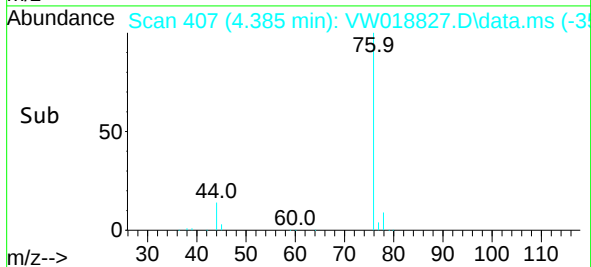
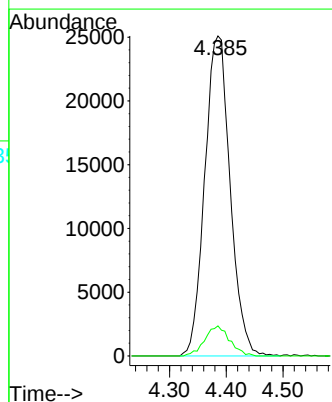
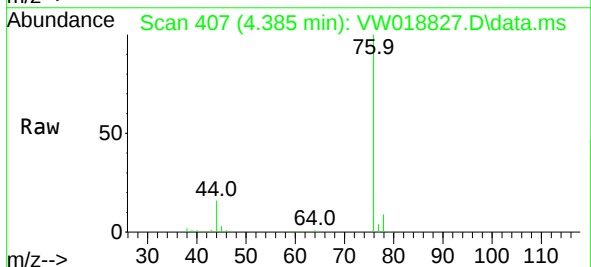


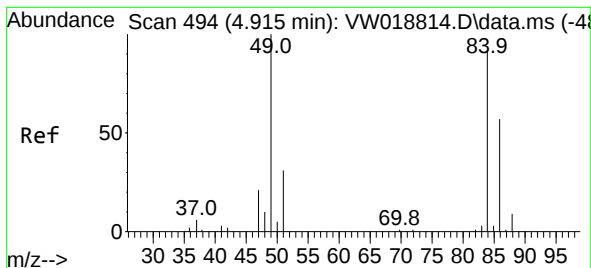
Tgt Ion: 43 Resp: 66631
Ion Ratio Lower Upper
43 100
58 34.4 0.0 53.8



#14
Carbon disulfide
Concen: 4.73 ug/L
RT: 4.385 min Scan# 407
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion: 76 Resp: 78102
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0





#16

Methylene chloride

Concen: 7.06 ug/L

RT: 4.922 min Scan# 495

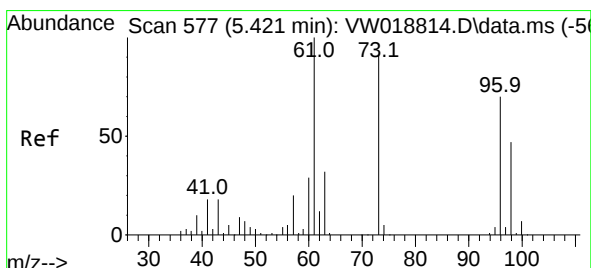
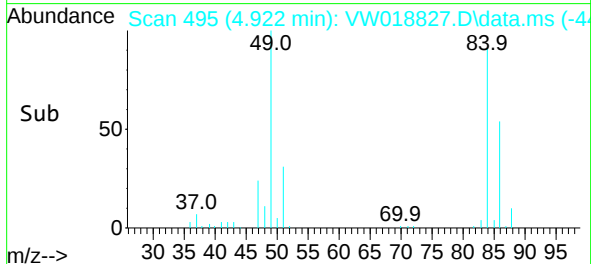
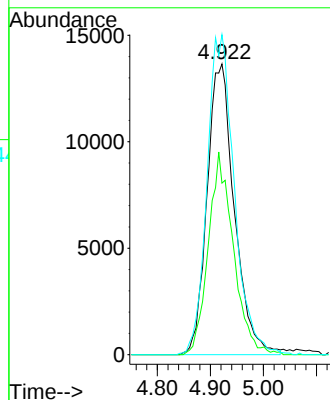
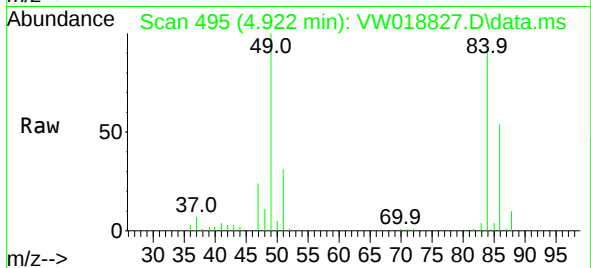
Delta R.T. 0.006 min

Lab File: VW018827.D

Acq: 28 Apr 2021 17:55

Tgt Ion: 84 Resp: 48888

Ion	Ratio	Lower	Upper
84	100		
86	59.0	45.3	84.1
49	110.1	86.6	160.8



#18

Methyl tert-butyl Ether

Concen: 1.94 ug/L

RT: 5.416 min Scan# 576

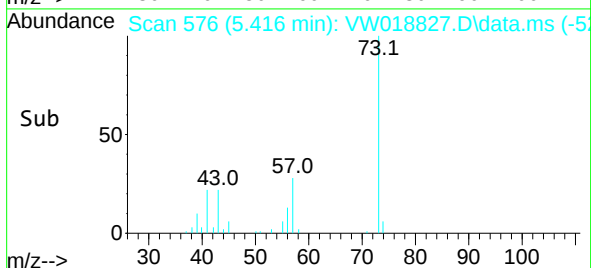
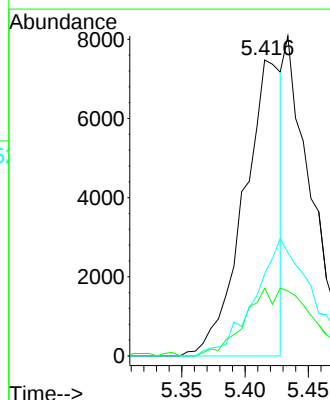
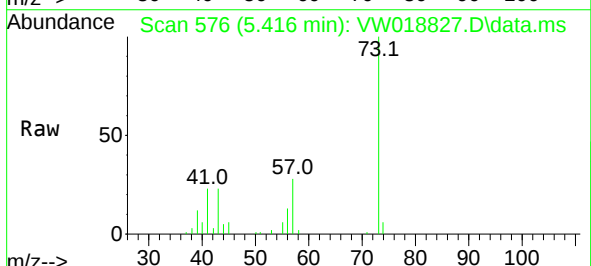
Delta R.T. -0.006 min

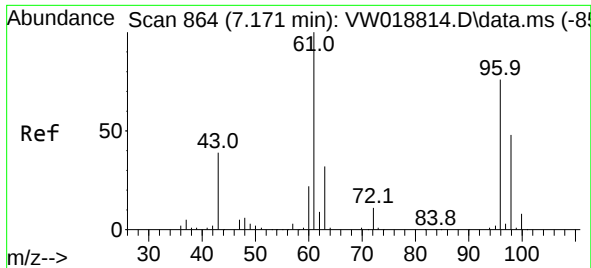
Lab File: VW018827.D

Acq: 28 Apr 2021 17:55

Tgt Ion: 73 Resp: 15501

Ion	Ratio	Lower	Upper
73	100		
43	18.0	17.7	26.5
57	0.0	17.0	25.4#

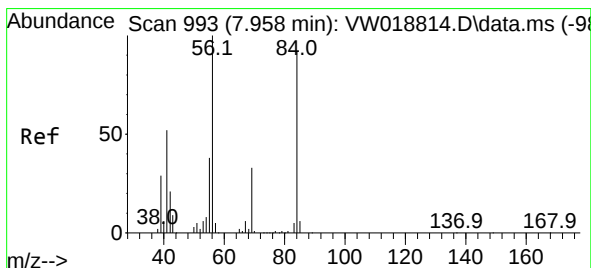
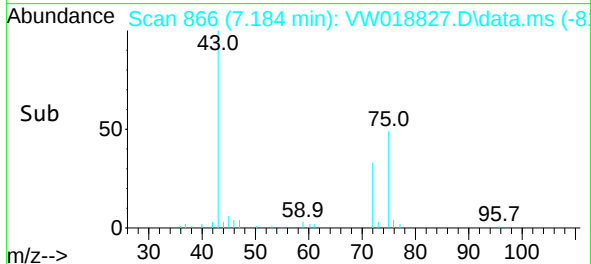
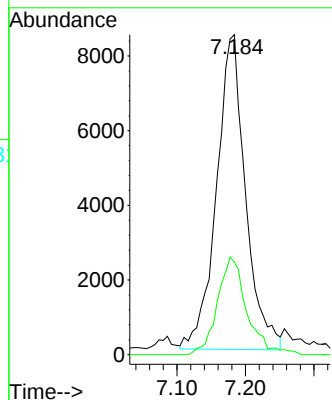
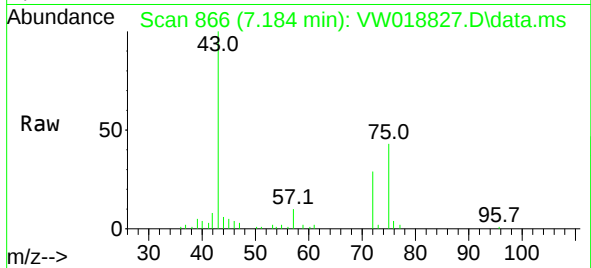




#22
2-Butanone
Concen: 15.39 ug/L
RT: 7.184 min Scan# 866
Delta R.T. 0.012 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

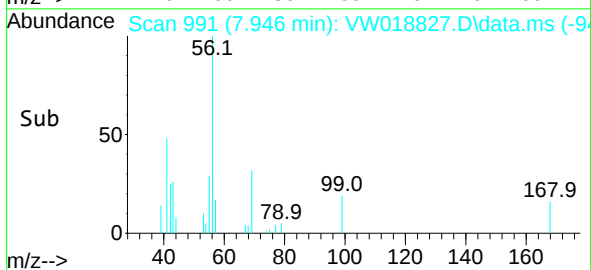
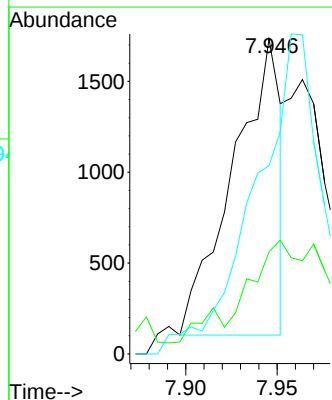
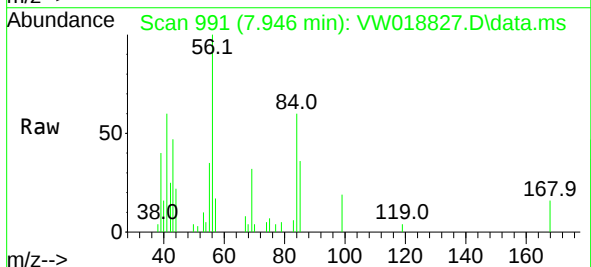
Instrument :
MSVOA_W
ClientSampled :

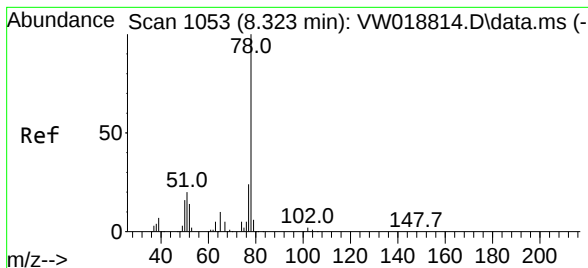
Tgt Ion: 43 Resp: 24806
Ion Ratio Lower Upper
43 100
72 30.2 14.9 44.7



#29
Cyclohexane
Concen: 0.52 ug/L
RT: 7.946 min Scan# 991
Delta R.T. -0.012 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion: 56 Resp: 2968
Ion Ratio Lower Upper
56 100
69 32.9 24.5 36.7
84 156.0 75.0 112.4#





#33

Benzene

Concen: 1.95 ug/L

RT: 8.324 min Scan# 1053

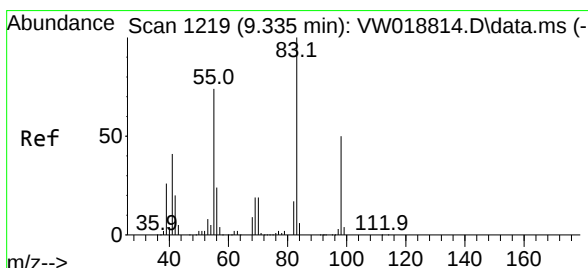
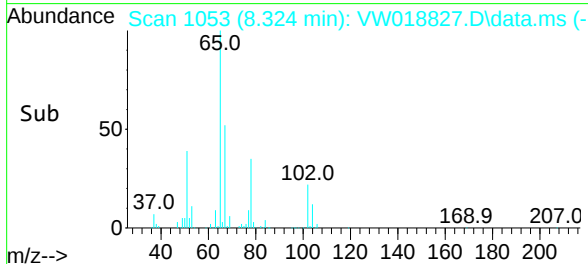
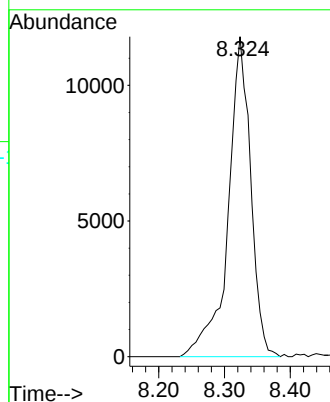
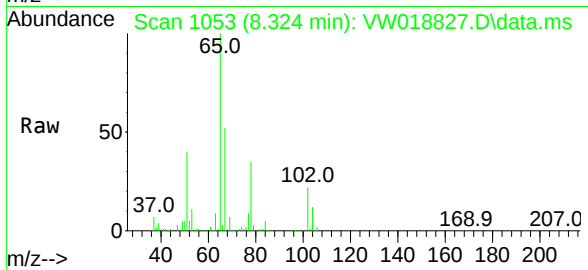
Delta R.T. 0.000 min

Lab File: VW018827.D

Acq: 28 Apr 2021 17:55

Tgt Ion: 78 Resp: 28178

Instrument :
MSVOA_W
ClientSampled :



#35

Methylcyclohexane

Concen: 7.90 ug/L

RT: 9.336 min Scan# 1219

Delta R.T. 0.000 min

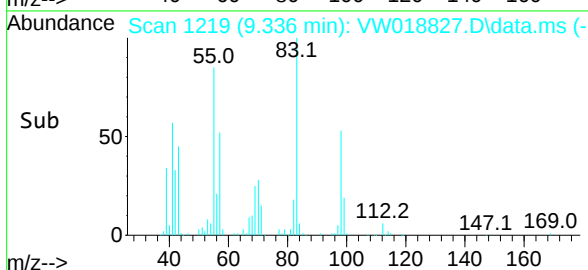
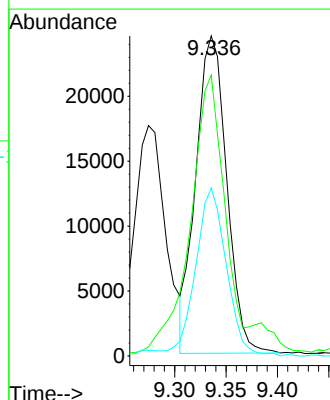
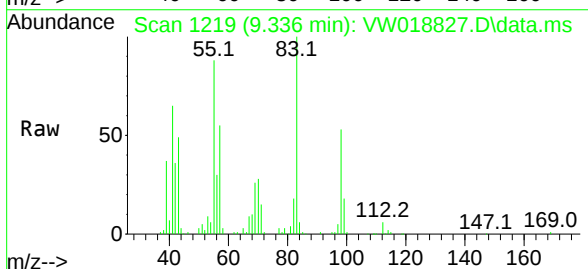
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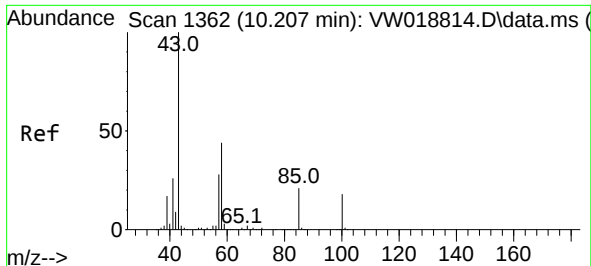
Acq: 28 Apr 2021 17:55

Tgt Ion: 83 Resp: 51054

Ion Ratio Lower Upper

83	100		
55	95.8	58.9	88.3#
98	52.5	40.1	60.1

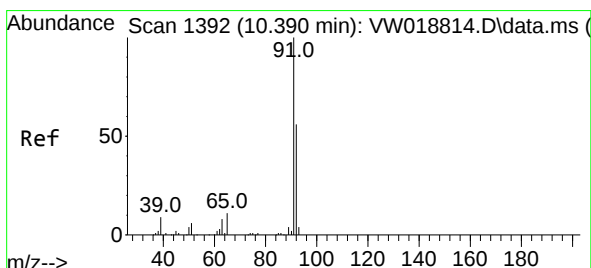
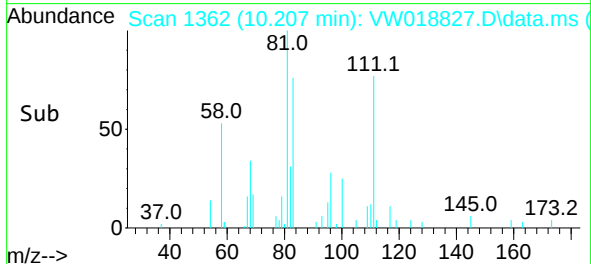
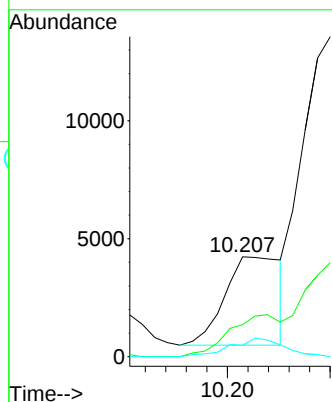
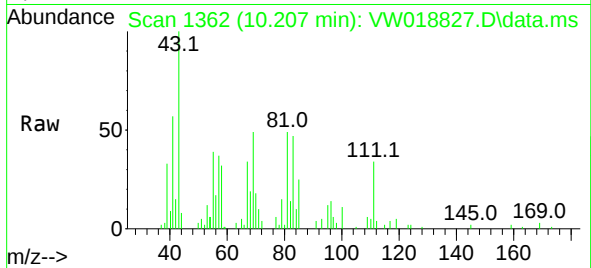




#40
4-Methyl-2-pentanone
Concen: 3.17 ug/L
RT: 10.207 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

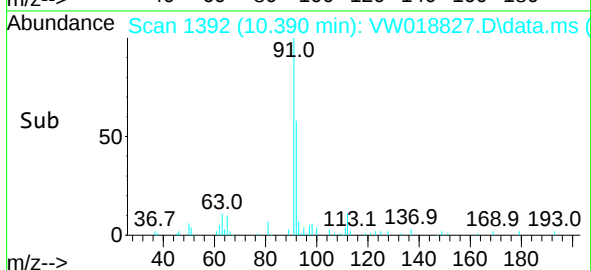
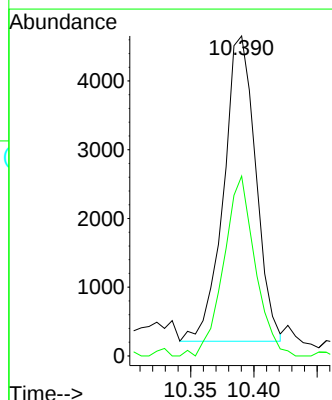
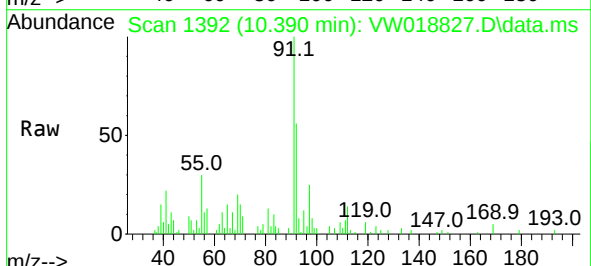
Instrument :
MSVOA_W
ClientSampleId :

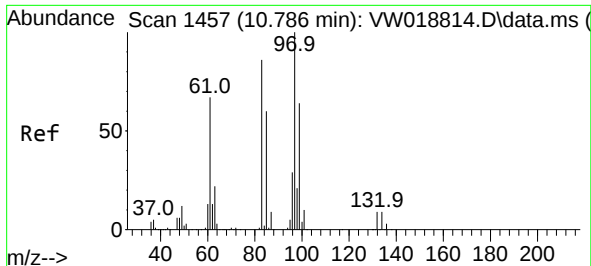
Tgt Ion: 43 Resp: 7116
Ion Ratio Lower Upper
43 100
58 43.7 31.0 46.4
100 20.0 13.0 19.6#



#42
Toluene
Concen: 0.51 ug/L
RT: 10.390 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

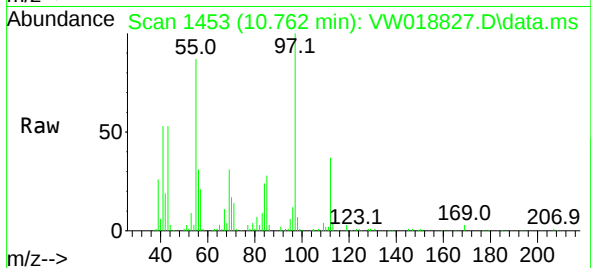
Tgt Ion: 91 Resp: 7841
Ion Ratio Lower Upper
91 100
92 56.2 39.5 73.3



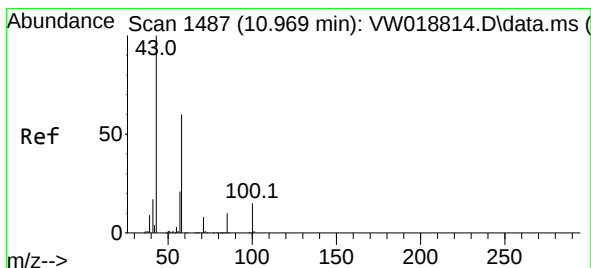
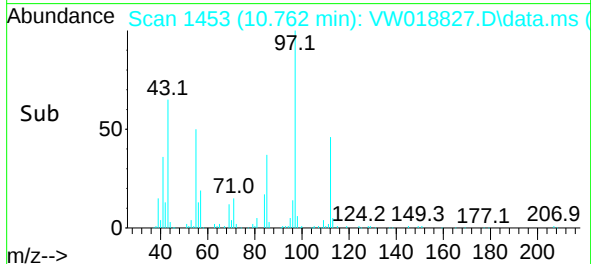
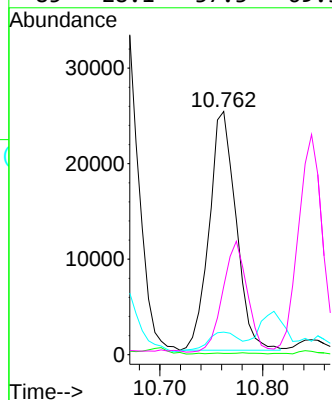


#45
1,1,2-Trichloroethane
Concen: 16.72 ug/L
RT: 10.762 min Scan# 1453
Delta R.T. -0.024 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

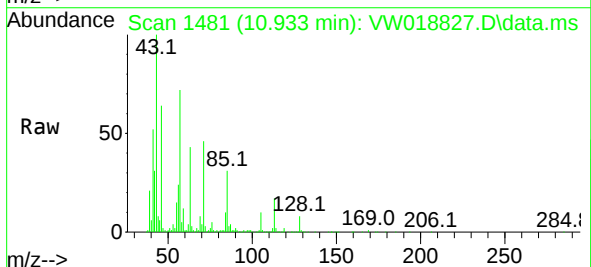
Instrument :
MSVOA_W
ClientSampleId :



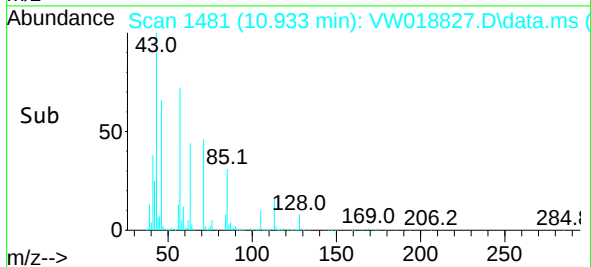
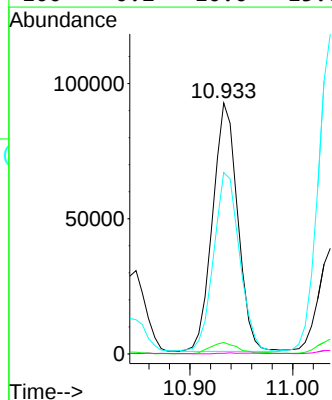
Tgt Ion: 97 Resp: 45356
Ion Ratio Lower Upper
97 100
99 0.5 45.1 83.7#
83 9.3 58.1 107.9#
85 28.1 37.3 69.3#

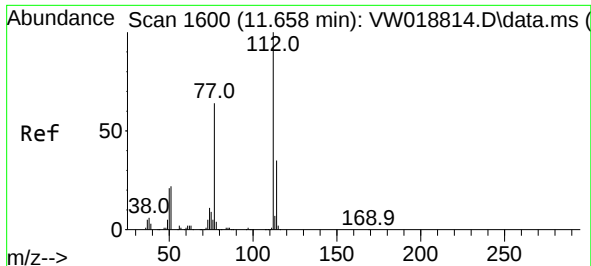


#48
2-Hexanone
Concen: 109.57 ug/L
RT: 10.933 min Scan# 1481
Delta R.T. -0.036 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55



Tgt Ion: 43 Resp: 155597
Ion Ratio Lower Upper
43 100
58 4.8 42.7 64.1#
57 73.9 15.8 23.8#
100 0.2 10.0 15.0#

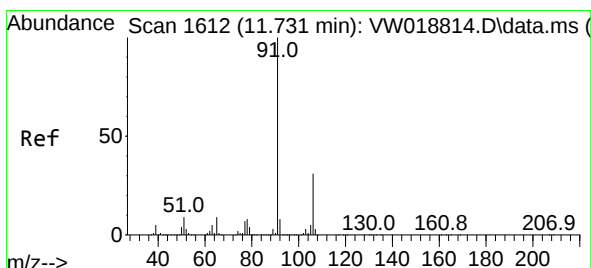
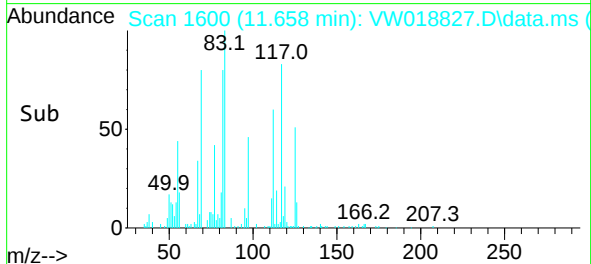
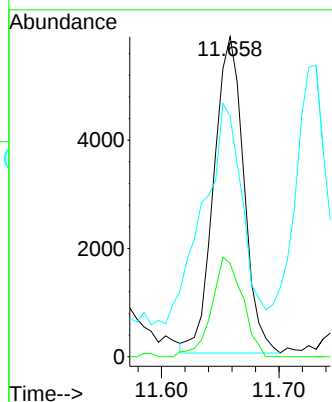
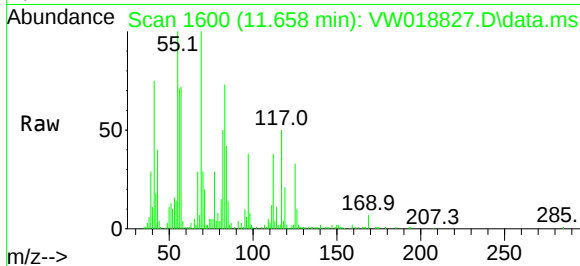




#51
Chlorobenzene
Concen: 1.09 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

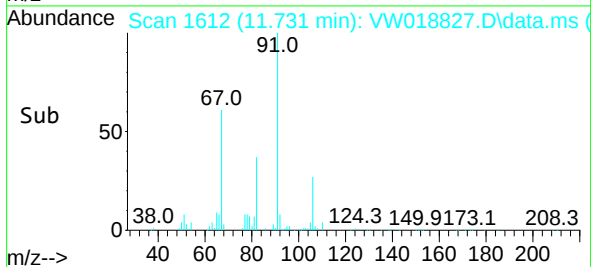
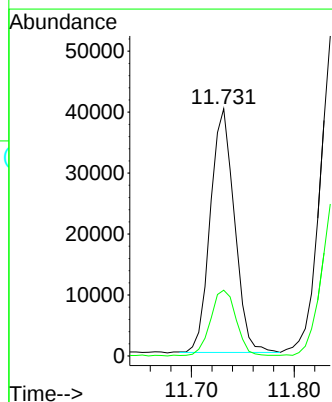
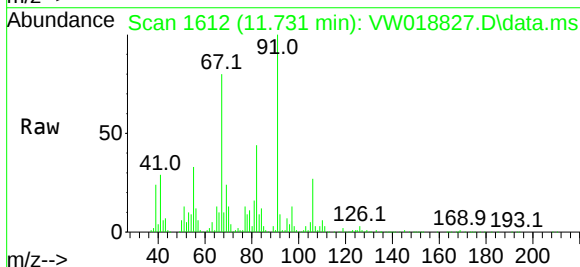
Instrument :
MSVOA_W
ClientSampled :

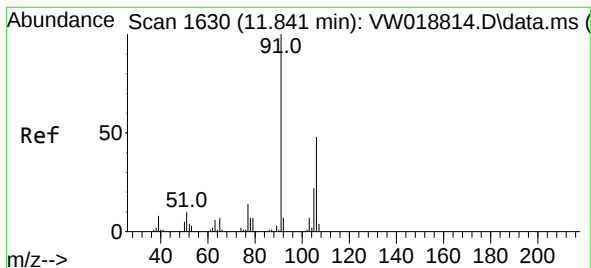
Tgt Ion:112 Resp: 10382
Ion Ratio Lower Upper
112 100
114 29.2 23.4 43.6
77 75.2 47.6 71.4#



#52
Ethylbenzene
Concen: 3.80 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion: 91 Resp: 65070
Ion Ratio Lower Upper
91 100
106 26.6 22.5 41.7

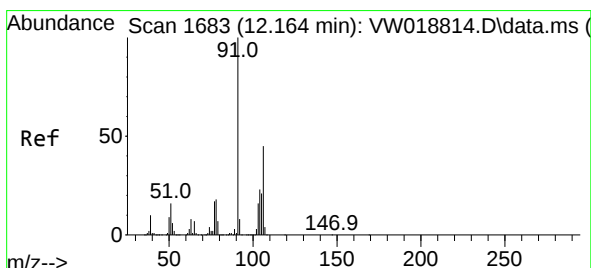
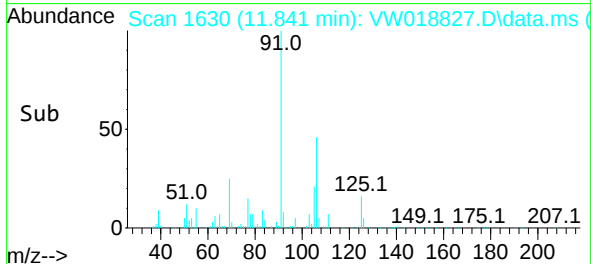
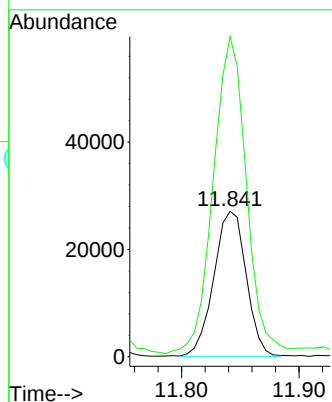
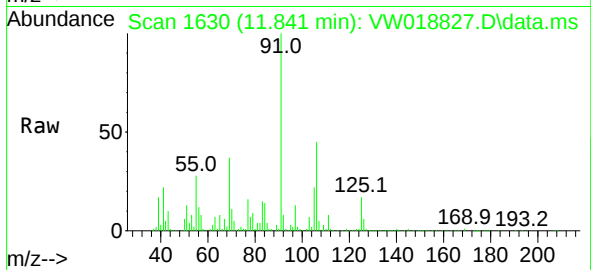




#53
m,p-Xylene
Concen: 8.25 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

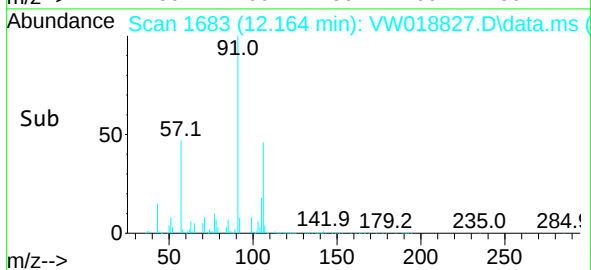
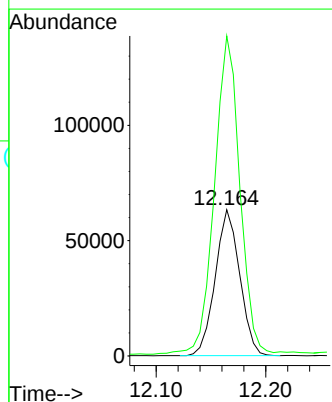
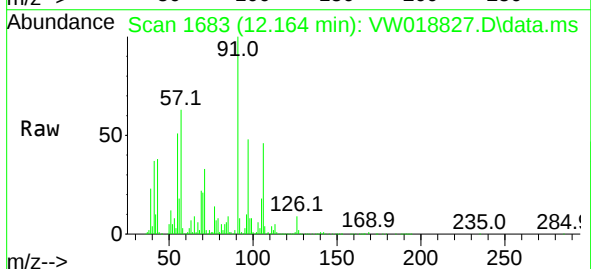
Instrument :
MSVOA_W
ClientSampled :

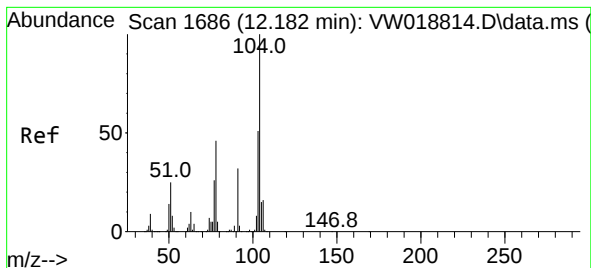
Tgt Ion:106 Resp: 51812
Ion Ratio Lower Upper
106 100
91 220.0 141.3 262.3



#54
o-Xylene
Concen: 16.28 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion:106 Resp: 98175
Ion Ratio Lower Upper
106 100
91 218.8 150.0 278.6





#55

Styrene

Concen: 0.61 ug/L

RT: 12.164 min Scan# 1683

Delta R.T. -0.018 min

Lab File: VW018827.D

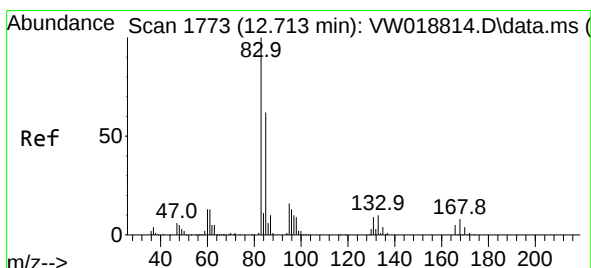
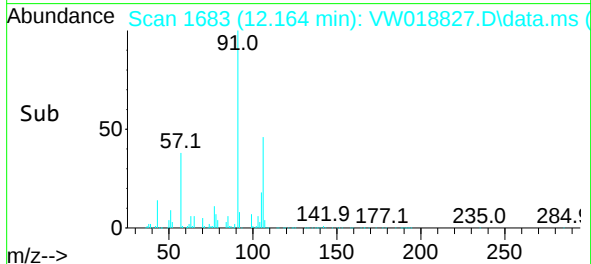
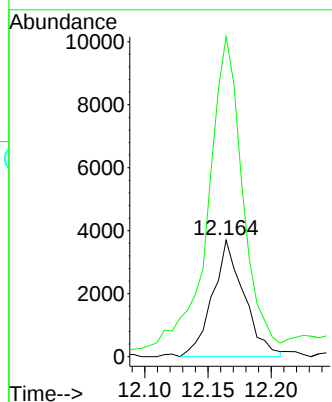
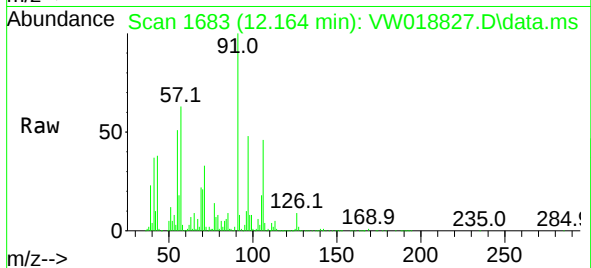
Acq: 28 Apr 2021 17:55

Tgt Ion:104 Resp: 6408

Ion Ratio Lower Upper

104 100

78 274.8 32.5 60.3#



#57

1,1,2,2-Tetrachloroethane

Concen: 19.51 ug/L

RT: 12.689 min Scan# 1769

Delta R.T. -0.024 min

Lab File: VW018827.D

Acq: 28 Apr 2021 17:55

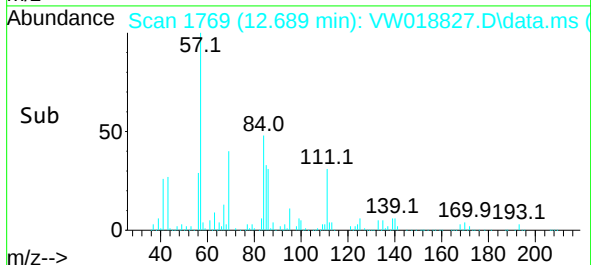
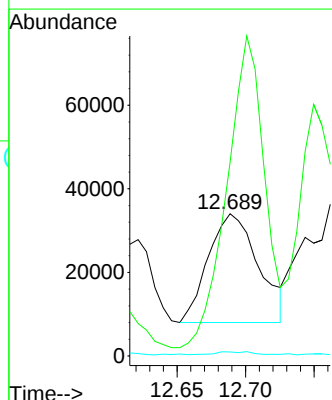
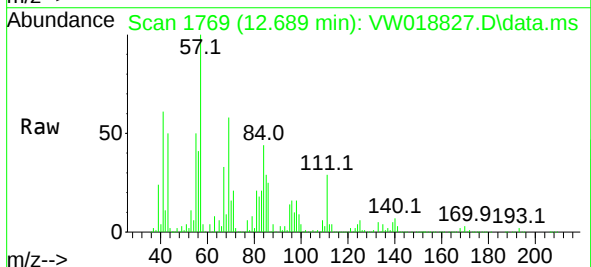
Tgt Ion: 83 Resp: 65922

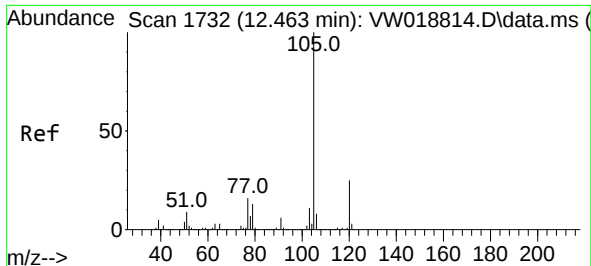
Ion Ratio Lower Upper

83 100

85 136.3 44.4 82.4#

131 2.9 8.2 12.4#

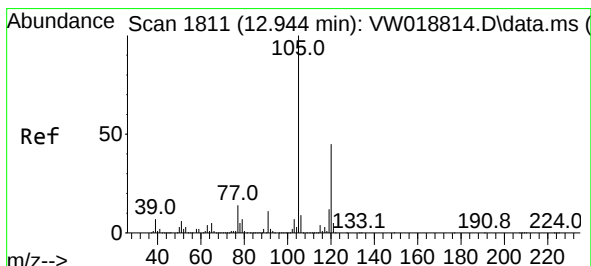
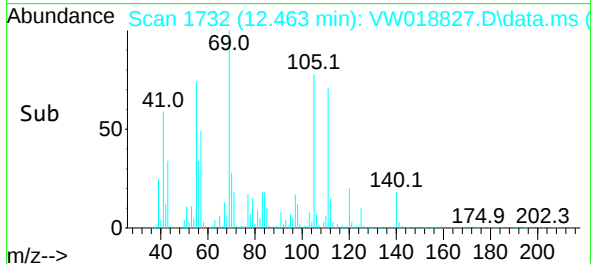
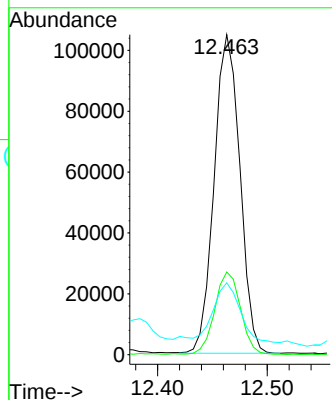
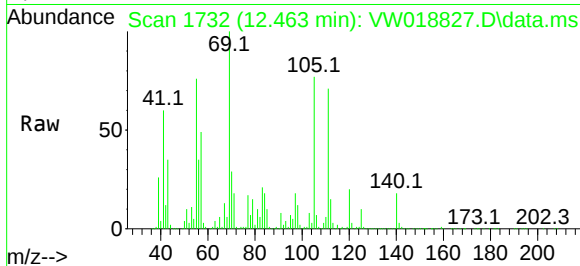




#60
Isopropylbenzene
Concen: 14.30 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

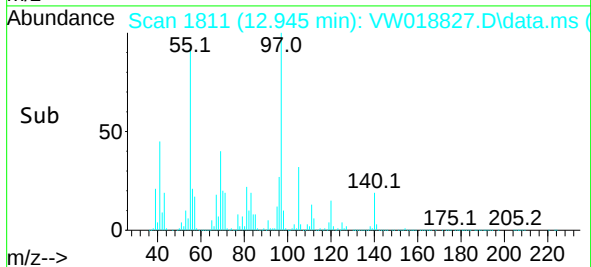
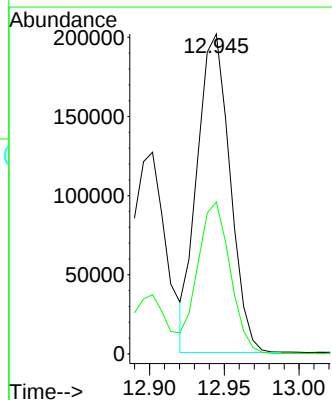
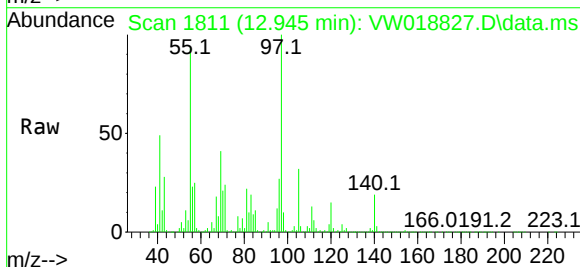
Instrument :
MSVOA_W
ClientSampled :

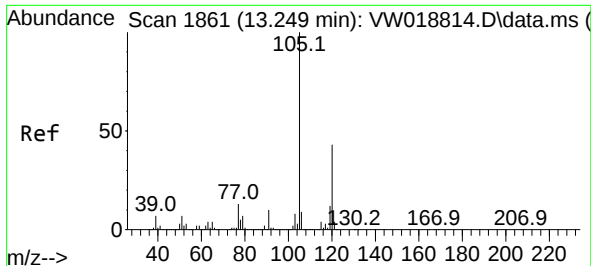
Tgt Ion:105 Resp: 170728
Ion Ratio Lower Upper
105 100
120 25.9 21.1 31.7
77 19.3 13.2 19.8



#62
1,3,5-Trimethylbenzene
Concen: 31.07 ug/L
RT: 12.945 min Scan# 1811
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion:105 Resp: 307368
Ion Ratio Lower Upper
105 100
120 46.9 39.0 58.6

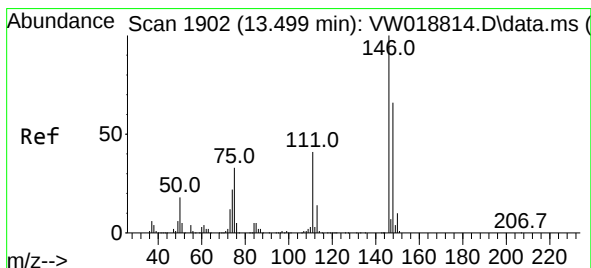
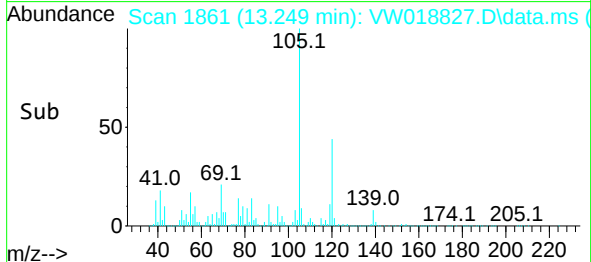
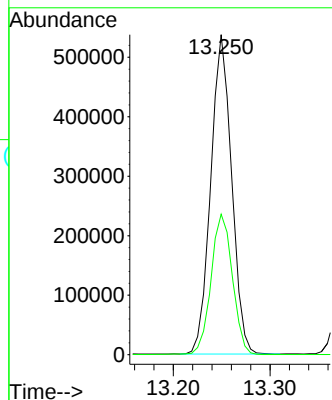
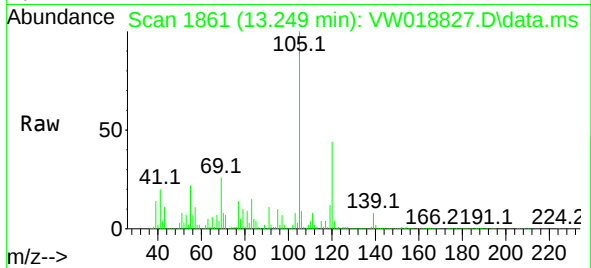




#63
1,2,4-Trimethylbenzene
Concen: 81.51 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

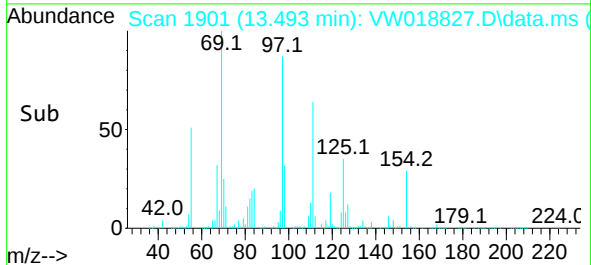
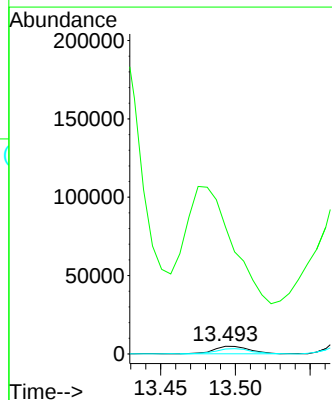
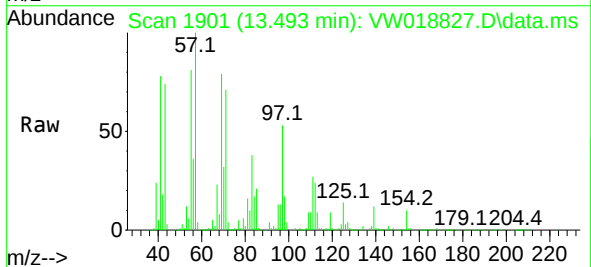
Instrument :
MSVOA_W
ClientSampled :

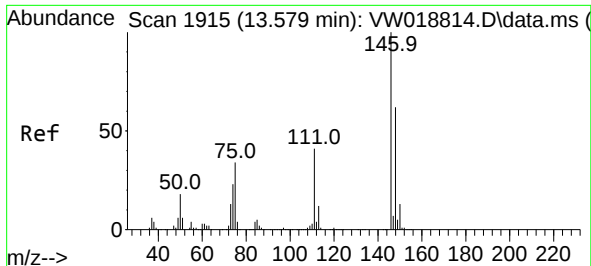
Tgt Ion:105 Resp: 804558
Ion Ratio Lower Upper
105 100
120 44.9 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 1.61 ug/L
RT: 13.493 min Scan# 1901
Delta R.T. -0.006 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion:146 Resp: 8125
Ion Ratio Lower Upper
146 100
111 1640.0 26.7 49.7#
148 63.5 41.1 76.3

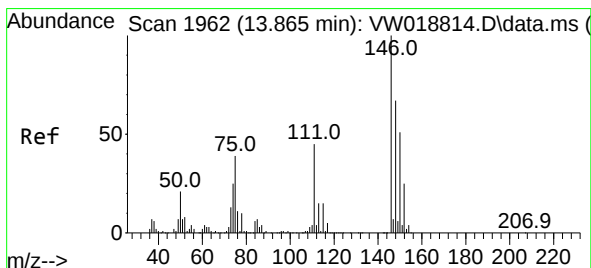
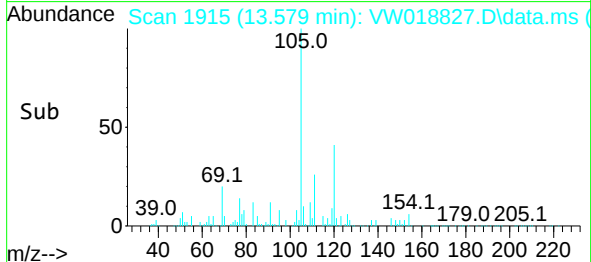
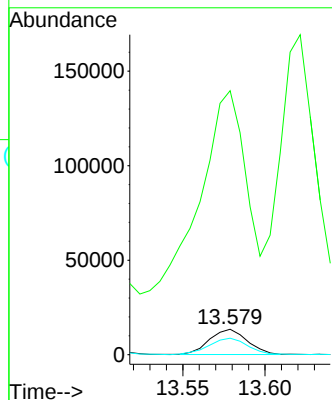
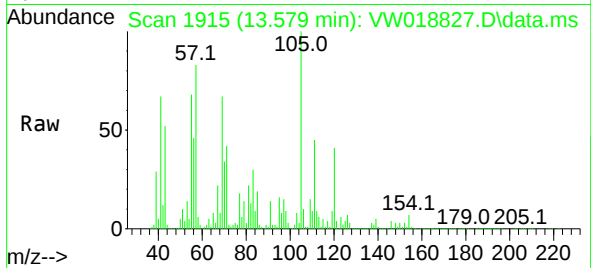




#65
1,4-Dichlorobenzene
Concen: 4.17 ug/L
RT: 13.579 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

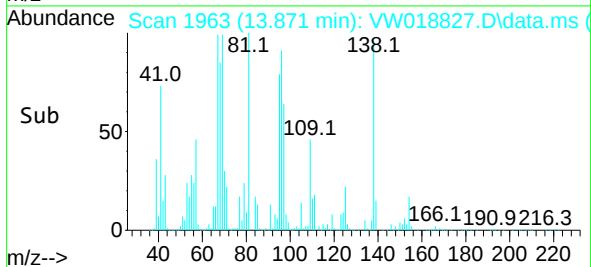
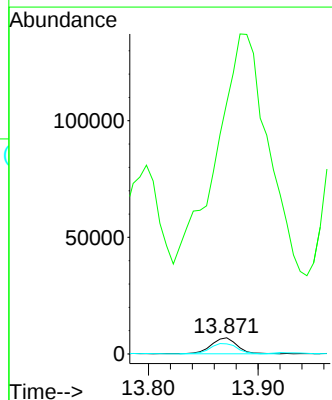
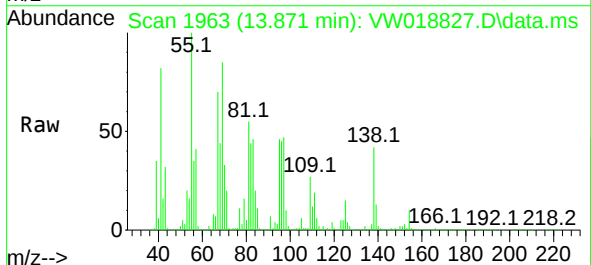
Instrument :
MSVOA_W
ClientSampled :

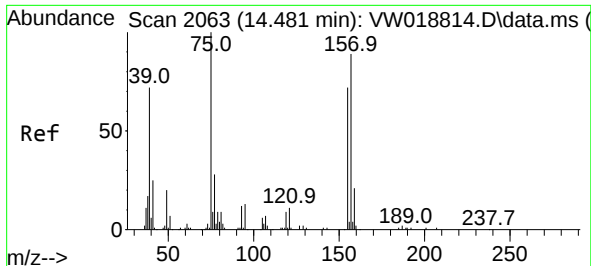
Tgt Ion:146 Resp: 21342
Ion Ratio Lower Upper
146 100
111 1036.3 28.8 53.4#
148 64.6 46.8 87.0



#67
1,2-Dichlorobenzene
Concen: 2.40 ug/L
RT: 13.871 min Scan# 1963
Delta R.T. 0.006 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion:146 Resp: 11170
Ion Ratio Lower Upper
146 100
111 1554.0 33.2 49.8#
148 62.4 50.4 75.6

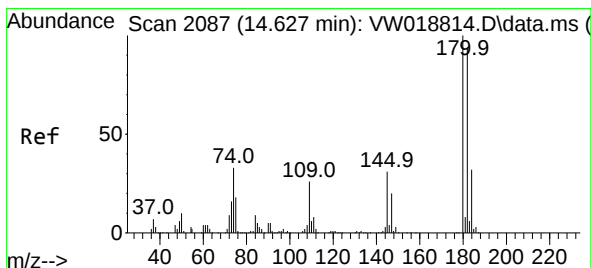
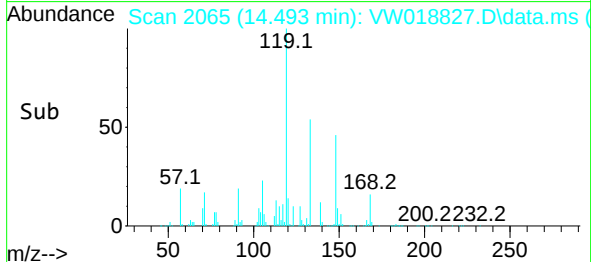
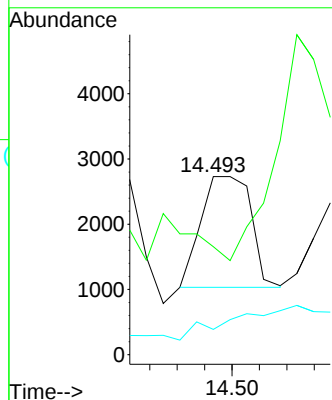
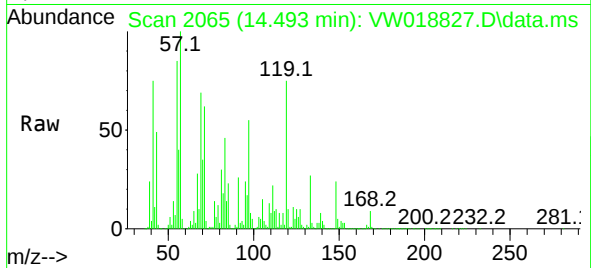




#68
1,2-Dibromo-3-chloropropane
Concen: 5.58 ug/L
RT: 14.493 min Scan# 2065
Delta R.T. 0.012 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

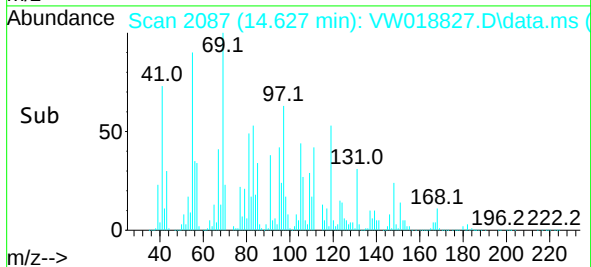
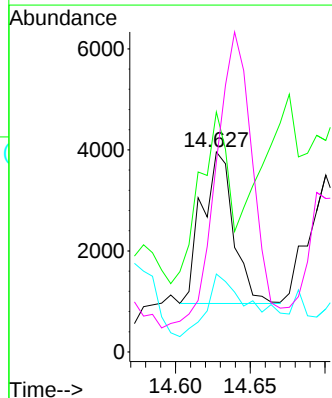
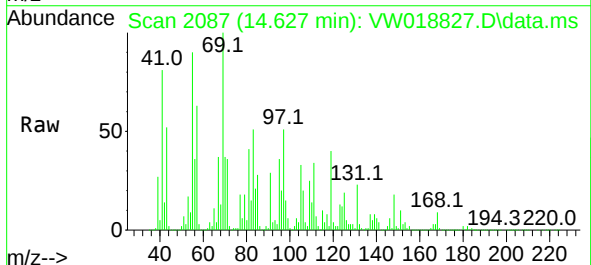
Instrument :
MSVOA_W
ClientSampleId :

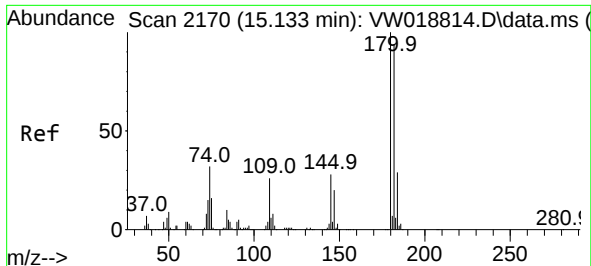
Tgt Ion: 75 Resp: 2152
Ion Ratio Lower Upper
75 100
155 60.7 59.4 89.0
157 14.2 72.2 108.2#



#69
1,3,5-Trichlorobenzene
Concen: 1.22 ug/L
RT: 14.627 min Scan# 2087
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

Tgt Ion:180 Resp: 4410
Ion Ratio Lower Upper
180 100
182 103.2 73.4 110.2
184 49.5 23.6 35.4#
145 227.2 24.9 37.3#

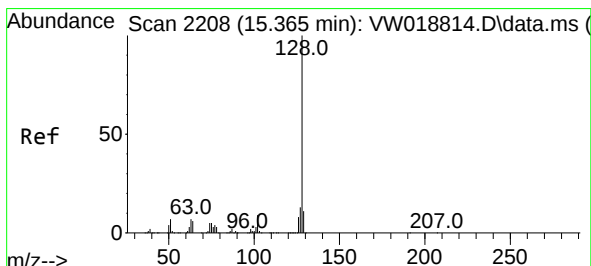
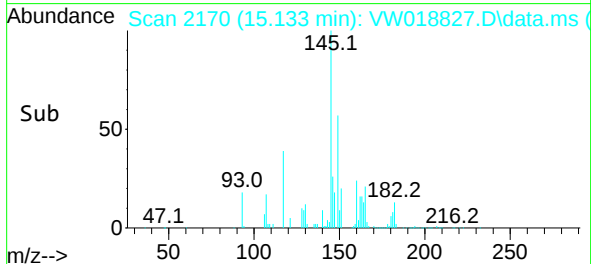
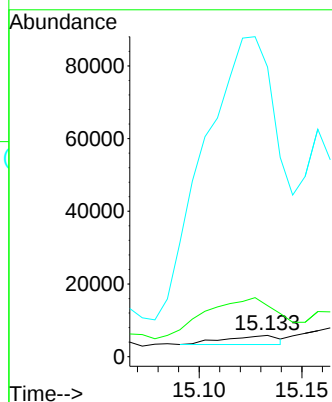
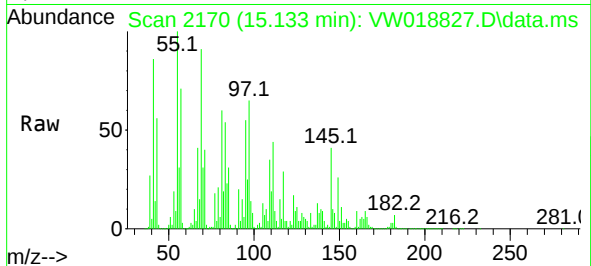




#70
1,2,4-trichlorobenzene
Concen: 1.54 ug/L
RT: 15.133 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

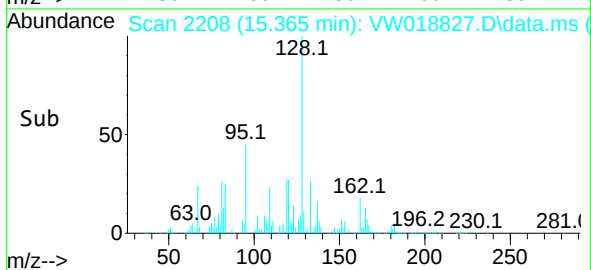
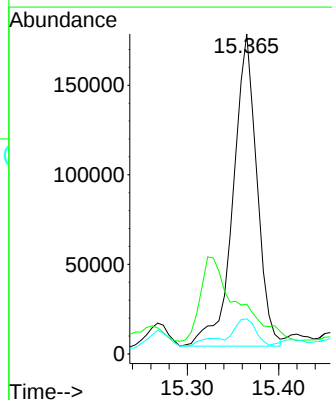
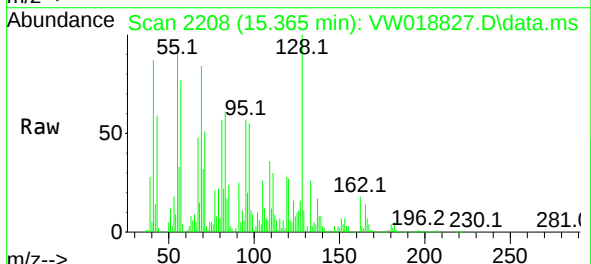
Instrument :
MSVOA_W
ClientSampled :

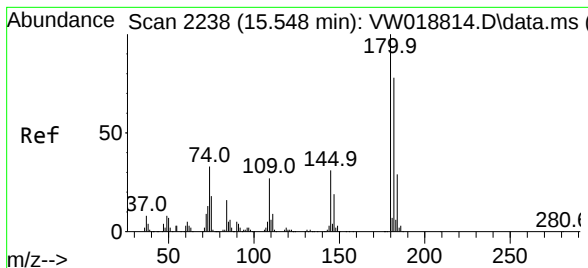
Tgt Ion:180 Resp: 4532
Ion Ratio Lower Upper
180 100
182 667.6 74.7 112.1#
145 4695.7 25.0 37.4#



#71
Naphthalene
Concen: 50.70 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.000 min
Lab File: VW018827.D
Acq: 28 Apr 2021 17:55

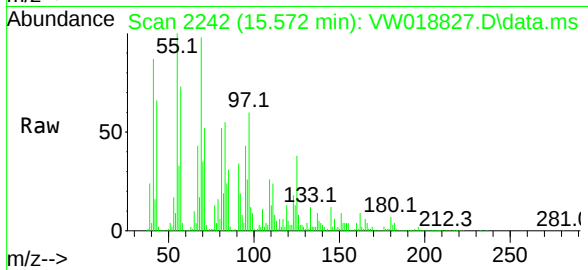
Tgt Ion:128 Resp: 314088
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 7.5 9.0 13.6#





#72
 1,2,3-Trichlorobenzene
 Concen: 5.27 ug/L
 RT: 15.572 min Scan# 2242
 Delta R.T. 0.025 min
 Lab File: VW018827.D
 Acq: 28 Apr 2021 17:55

Instrument :
 MSVOA_W
 ClientSampled :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	126.8	76.7	115.1#
145	956.5	28.9	43.3#

