

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW093021\
 Data File : VW022458.D
 Acq On : 01 Oct 2021 02:06
 Operator : SY/MD
 Sample : M3996-13
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F4A28

Quant Time: Oct 01 04:47:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 01 04:27:45 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	260238	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	246837	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	122603	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	86255	39.055	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.120%
7) Chloroethane-d5	1.561	69	71717	41.056	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.120%
11) 1,1-Dichloroethene-d2	2.105	63	118241	30.793	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.580%
21) 2-Butanone-d5	3.870	46	135189	86.735	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.740%
24) Chloroform-d	4.349	84	150573	37.757	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.520%
26) 1,2-Dichloroethane-d4	5.034	65	95554	39.072	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.140%
32) Benzene-d6	5.050	84	325218	41.881	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.760%
36) 1,2-Dichloropropane-d6	6.069	67	101391	40.813	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.620%
41) Toluene-d8	7.317	98	290626	40.890	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.780%
43) trans-1,3-Dichloroprop...	7.622	79	40679	35.860	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.720%
47) 2-Hexanone-d5	8.088	63	86627	85.817	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.820%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	140790	39.041	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	78.080%
66) 1,2-Dichlorobenzene-d4	11.625	152	121446	44.547	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.100%
Target Compounds						
					Qvalue	
13) Acetone	2.127	43	28649	23.419	ug/L	51
15) Methyl Acetate	2.429	43	5046	2.213	ug/L #	52
16) Methylene chloride	2.487	84	2162	0.906	ug/L #	1
17) trans-1,2-Dichloroethene	2.757	96	28423	14.398	ug/L	94
18) Methyl tert-butyl Ether	2.767	73	54859	9.345	ug/L #	1
20) cis-1,2-Dichloroethene	3.915	96	7900	3.757	ug/L	89
25) Chloroform	4.400	83	8700	2.370	ug/L	85
27) 1,2-Dichloroethane	5.101	62	41639	15.953	ug/L #	78
29) Cyclohexane	4.677	56	226682	78.372	ug/L	99
33) Benzene	5.098	78	4734490	628.511	ug/L	100
34) Trichloroethene	5.921	95	12584	6.496	ug/L	95
35) Methylcyclohexane	6.133	83	93802	31.432	ug/L #	87
40) 4-Methyl-2-pentanone	7.239	43	3702	1.361	ug/L #	75
42) Toluene	7.391	91	31342	3.898	ug/L	97
44) trans-1,3-Dichloropropene	7.622	75	1866	0.687	ug/L #	62
45) 1,1,2-Trichloroethane	7.789	97	6374	3.240	ug/L #	19
46) Tetrachloroethene	7.976	164	41266	25.871	ug/L	98
48) 2-Hexanone	8.165	43	10627	5.144	ug/L #	1
52) Ethylbenzene	9.014	91	328206	38.970	ug/L	100

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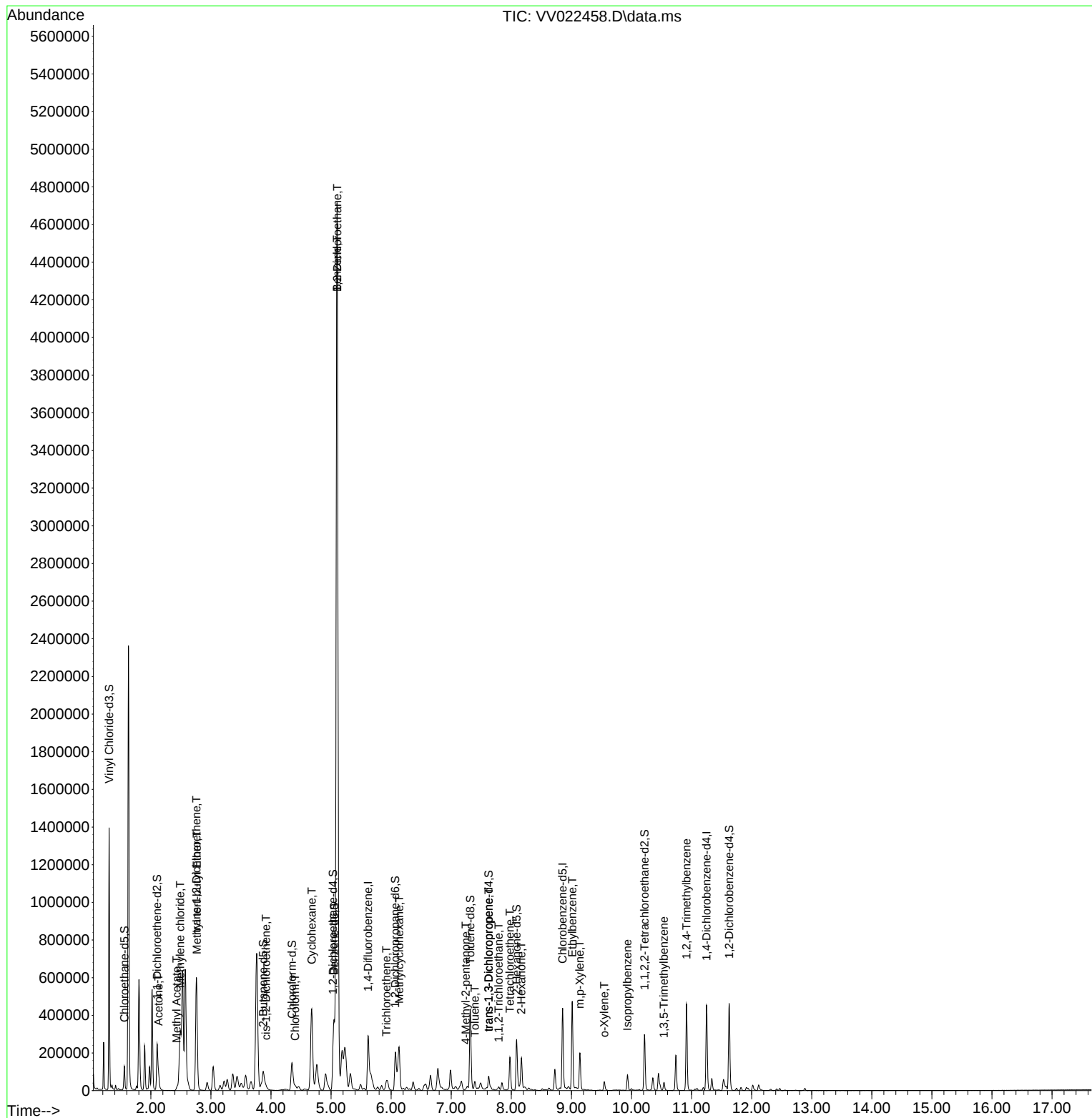
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.140	106	56074	17.289	ug/L	100
54) o-Xylene	9.548	106	12469	3.957	ug/L	98
60) Isopropylbenzene	9.934	105	50577	6.697	ug/L	99
62) 1,3,5-Trimethylbenzene	10.542	105	22980	3.692	ug/L	100
63) 1,2,4-Trimethylbenzene	10.915	105	247412	39.395	ug/L	100

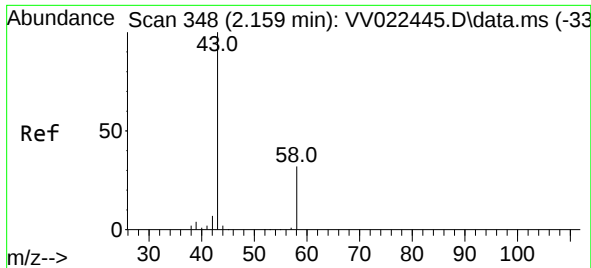
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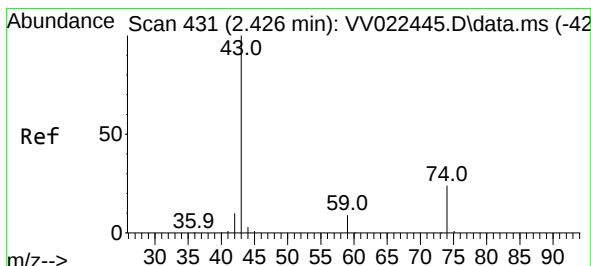
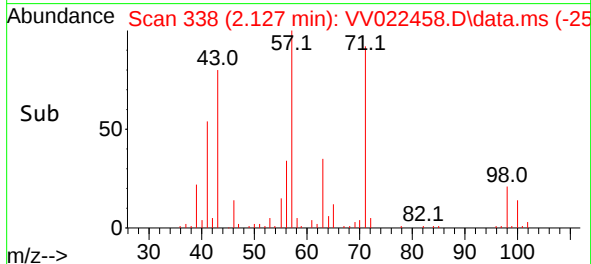
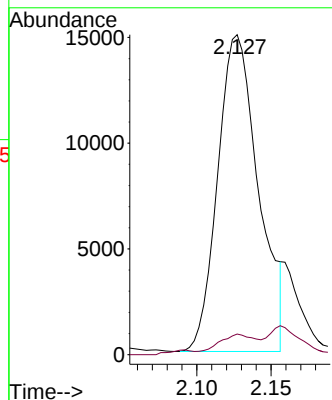
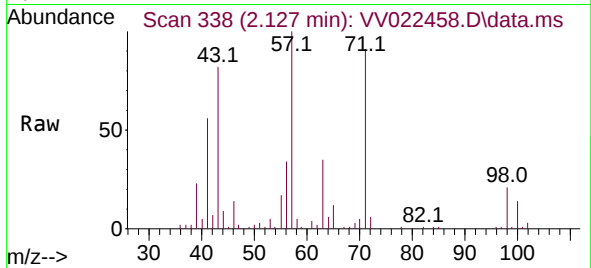




#13
Acetone
Concen: 23.419 ug/L
RT: 2.127 min Scan# 338
Delta R.T. -0.032 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

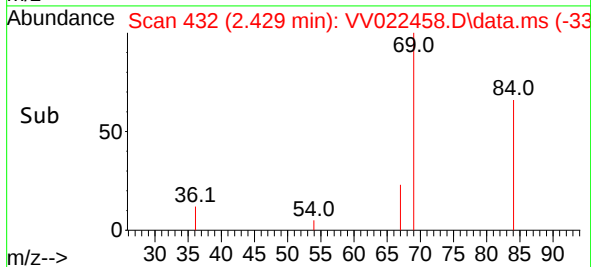
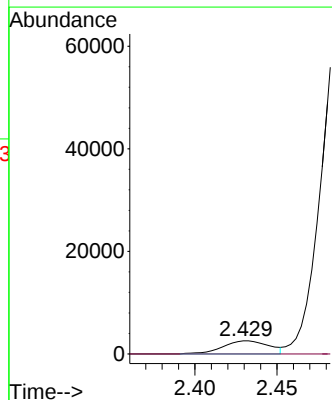
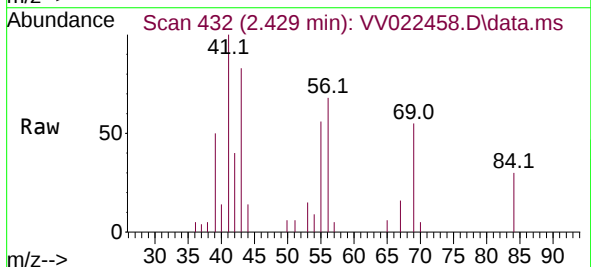
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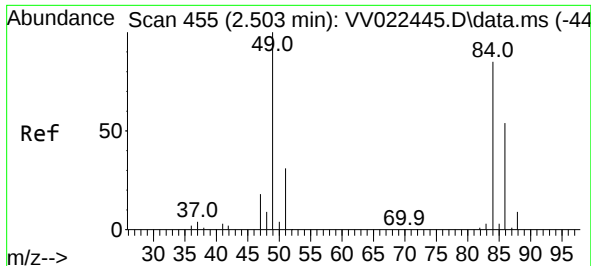
Tgt Ion: 43 Resp: 28649
Ion Ratio Lower Upper
43 100
58 5.6 0.0 67.2



#15
Methyl Acetate
Concen: 2.213 ug/L
RT: 2.429 min Scan# 432
Delta R.T. 0.003 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 43 Resp: 5046
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.6#

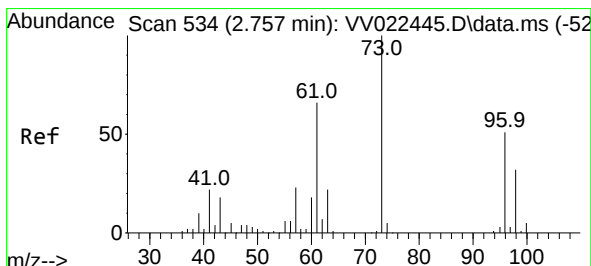
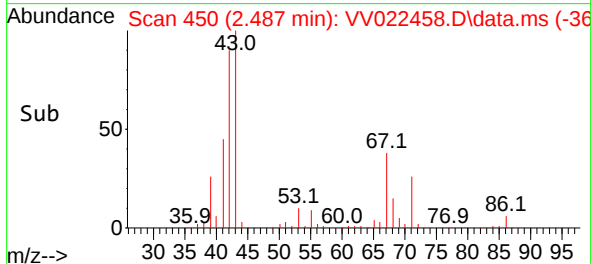
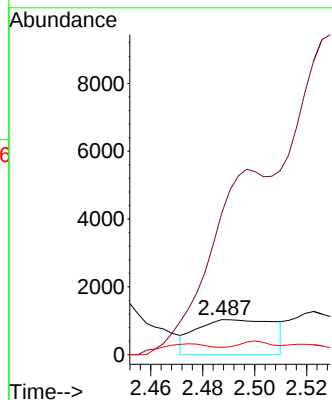
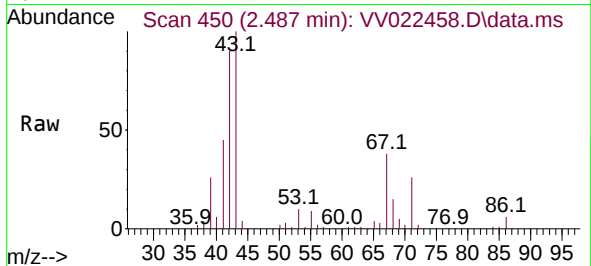




#16
Methylene chloride
Concen: 0.906 ug/L
RT: 2.487 min Scan# 450
Delta R.T. -0.016 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

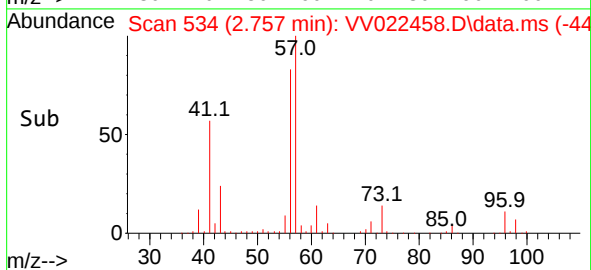
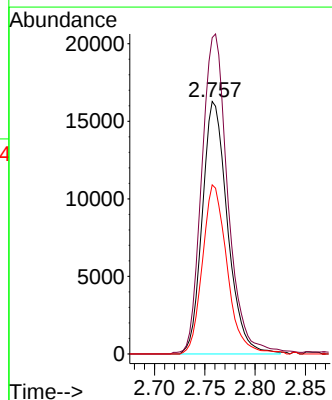
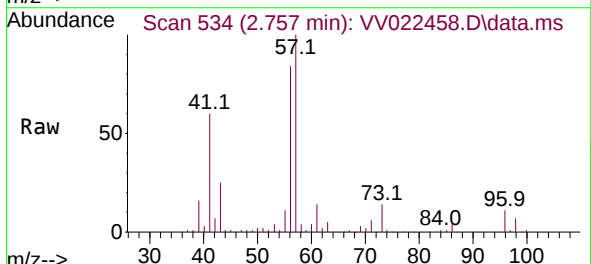
Instrument :
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ClientSampled :
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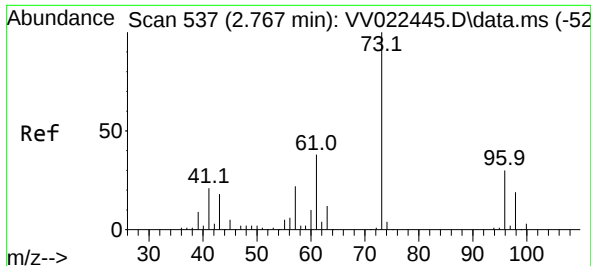
Tgt Ion: 84 Resp: 2162
Ion Ratio Lower Upper
84 100
86 403.6 44.6 82.8#
49 21.1 85.3 158.3#



#17
trans-1,2-Dichloroethene
Concen: 14.398 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 96 Resp: 28423
Ion Ratio Lower Upper
96 100
61 125.3 92.7 172.1
98 67.0 44.4 82.5

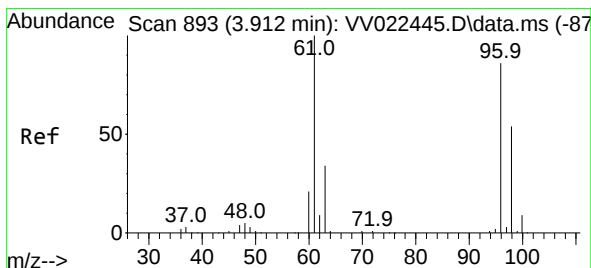
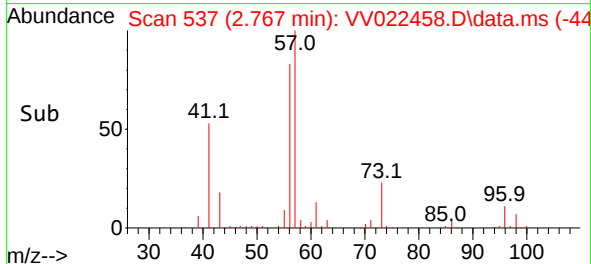
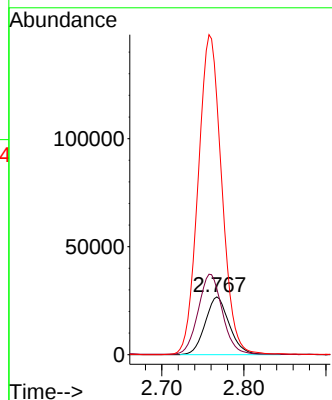
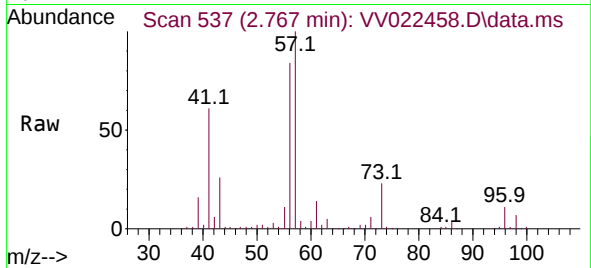




#18
Methyl tert-butyl Ether
Concen: 9.345 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

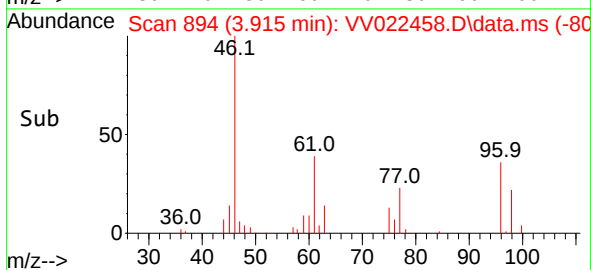
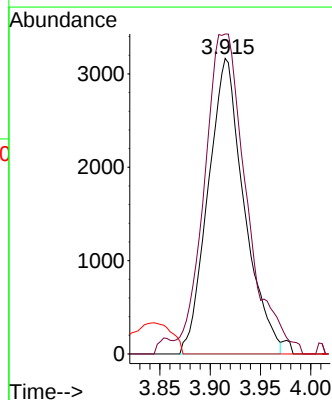
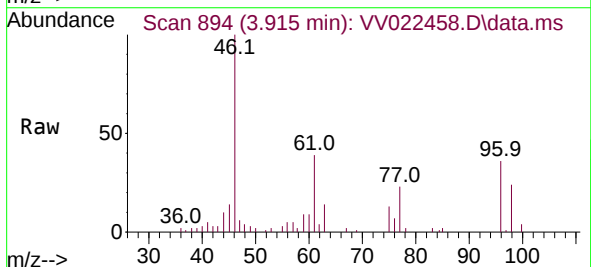
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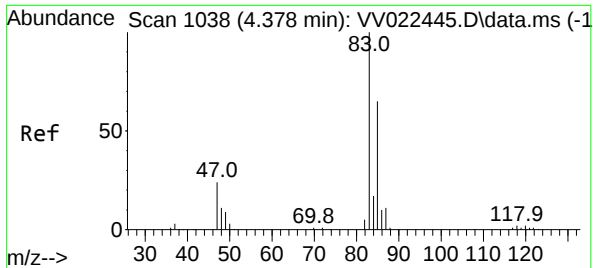
Tgt Ion: 73 Resp: 54859
Ion Ratio Lower Upper
73 100
43 137.6 14.6 21.8#
57 539.4 17.6 26.4#



#20
cis-1,2-Dichloroethene
Concen: 3.757 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.003 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 96 Resp: 7900
Ion Ratio Lower Upper
96 100
61 108.3 84.6 157.0
68 0.0 0.0 0.0

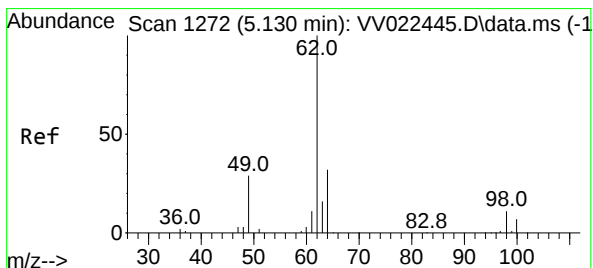
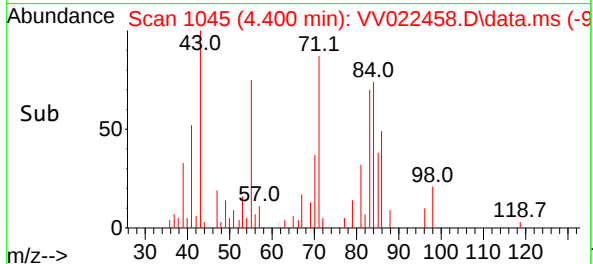
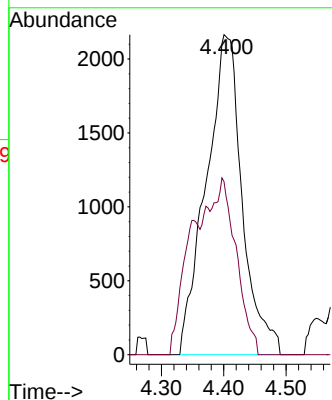
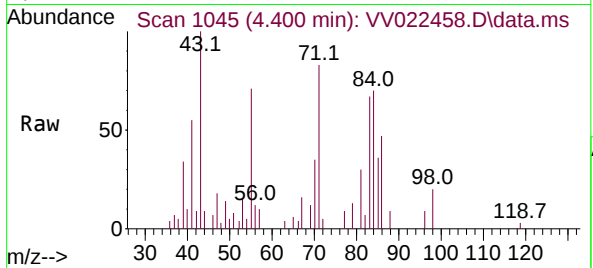




#25
Chloroform
Concen: 2.370 ug/L
RT: 4.400 min Scan# 1045
Delta R.T. 0.022 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

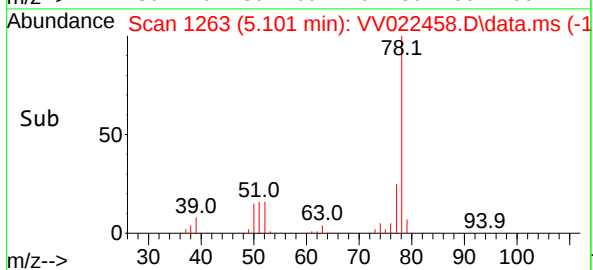
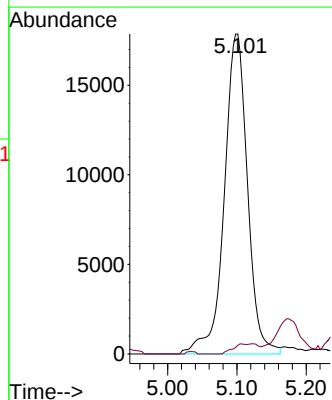
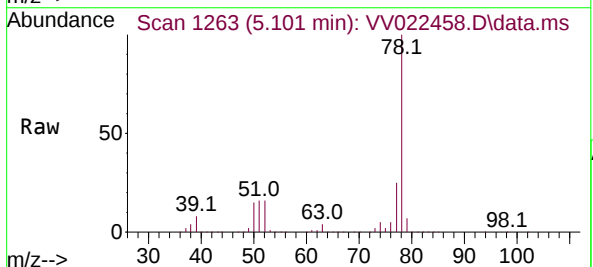
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ClientSampled :
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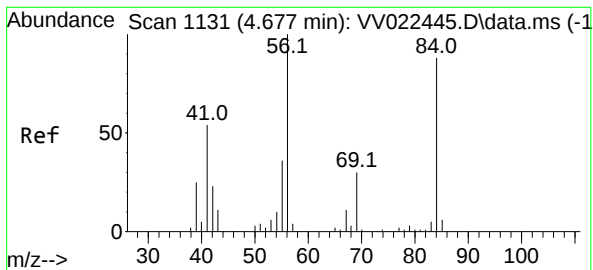
Tgt Ion: 83 Resp: 8700
Ion Ratio Lower Upper
83 100
85 54.0 46.5 86.3



#27
1,2-Dichloroethane
Concen: 15.953 ug/L
RT: 5.101 min Scan# 1263
Delta R.T. -0.029 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 62 Resp: 41639
Ion Ratio Lower Upper
62 100
98 2.7 8.9 13.3#

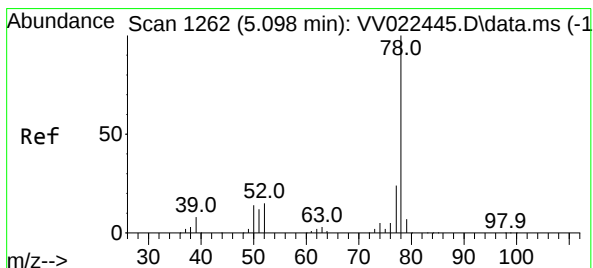
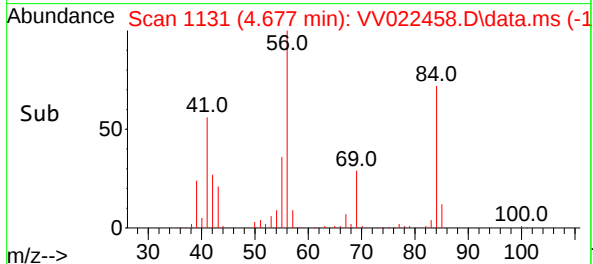
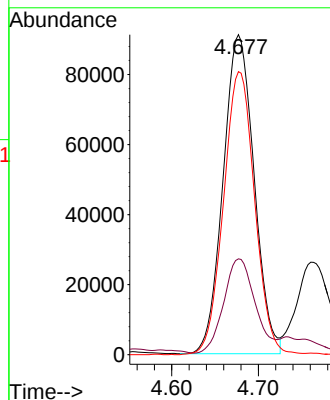
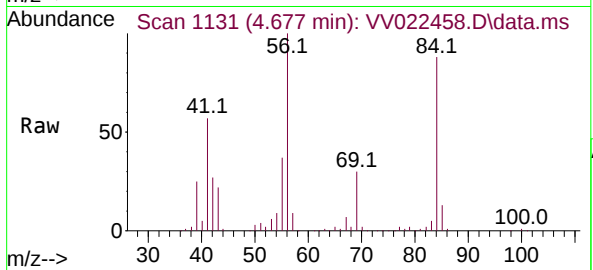




#29
Cyclohexane
Concen: 78.372 ug/L
RT: 4.677 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

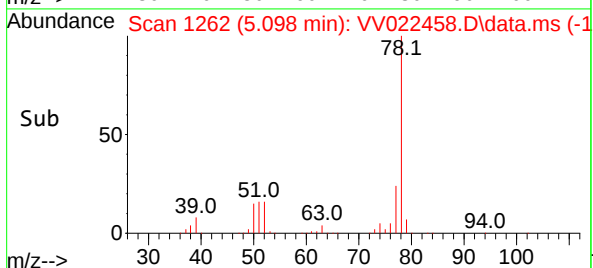
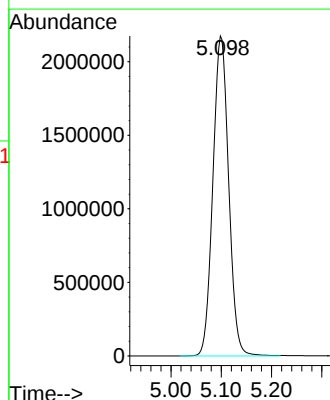
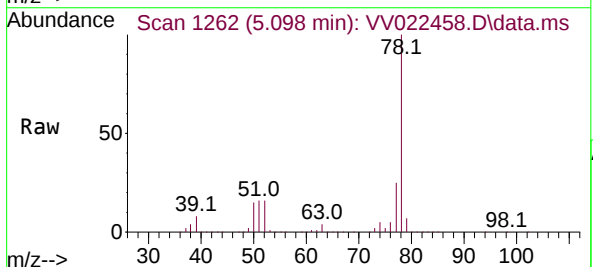
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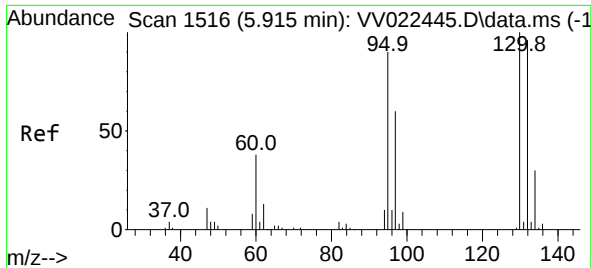
Tgt Ion: 56 Resp: 226682
Ion Ratio Lower Upper
56 100
69 30.0 24.6 37.0
84 89.3 71.8 107.8



#33
Benzene
Concen: 628.511 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. -0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 78 Resp: 4734490

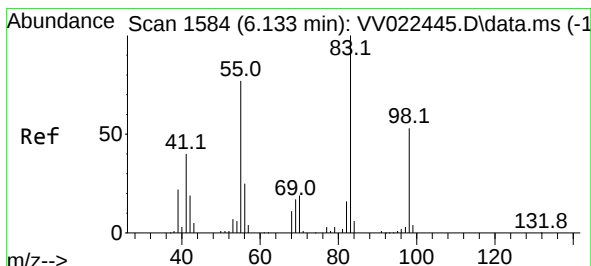
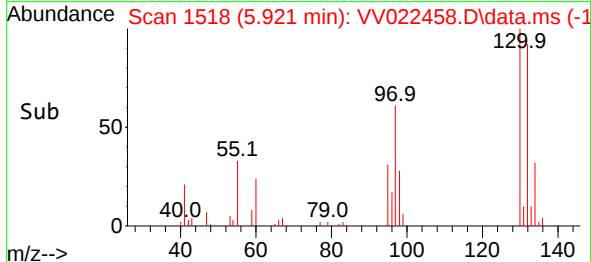
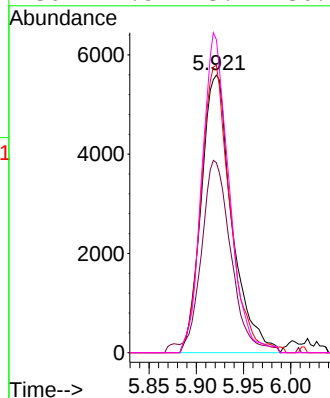
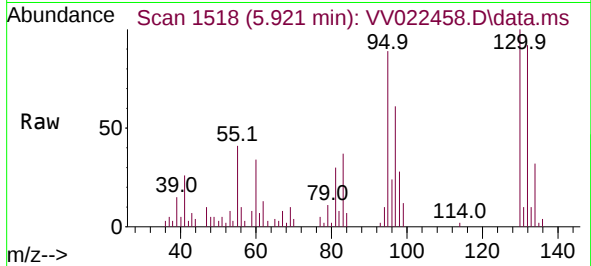




#34
Trichloroethene
Concen: 6.496 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.006 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

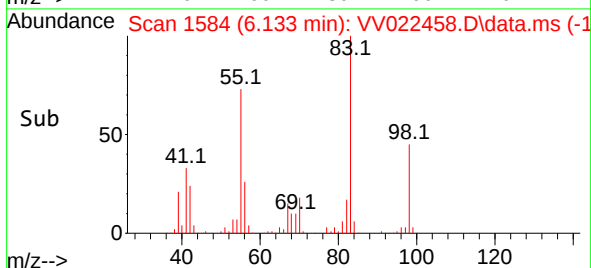
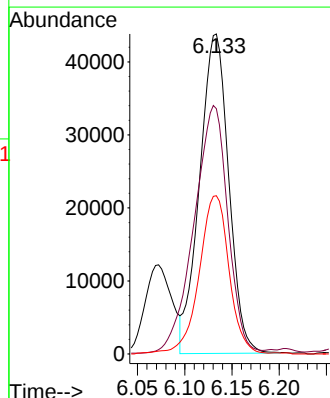
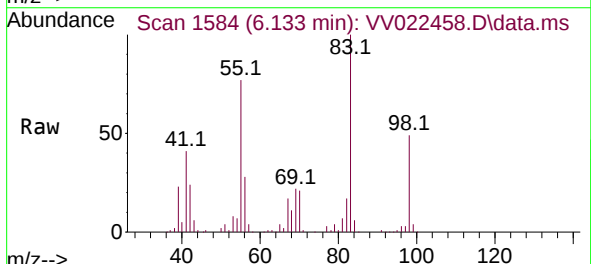
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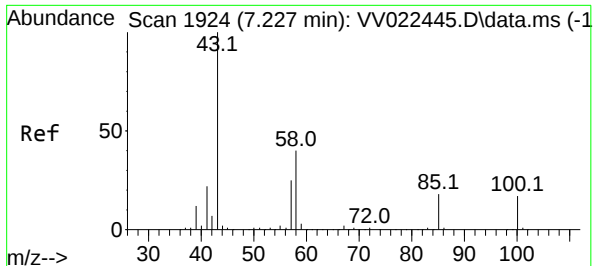
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Ion Ratio Lower Upper
95 100
97 68.5 45.2 84.0
132 103.5 71.0 131.8
130 112.8 73.7 136.9



#35
Methylcyclohexane
Concen: 31.432 ug/L
RT: 6.133 min Scan# 1584
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 83 Resp: 93802
Ion Ratio Lower Upper
83 100
55 89.8 58.6 87.8#
98 51.0 39.2 58.8

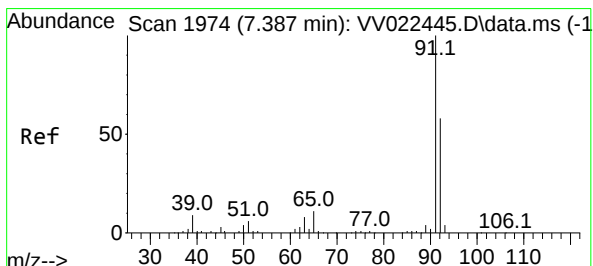
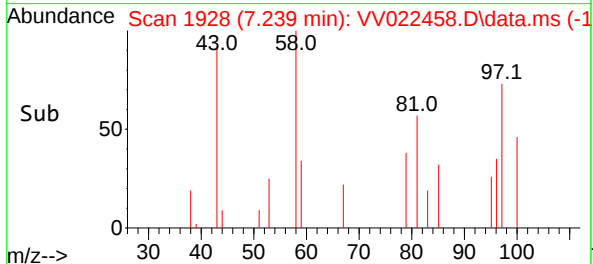
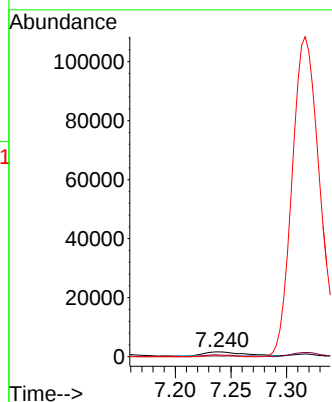
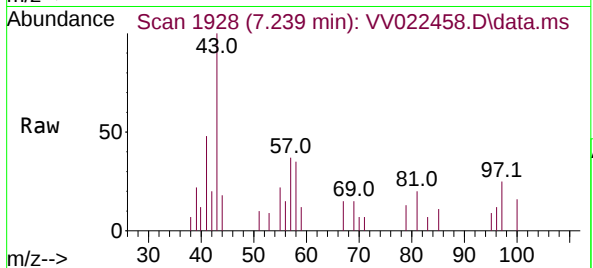




#40
4-Methyl-2-pentanone
Concen: 1.361 ug/L
RT: 7.239 min Scan# 1928
Delta R.T. 0.013 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

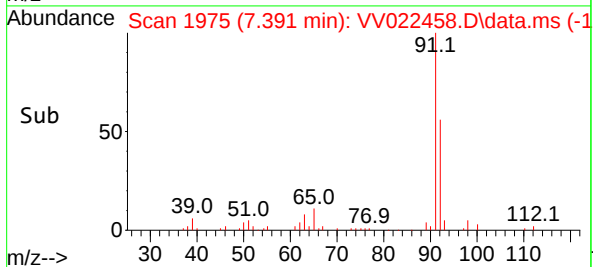
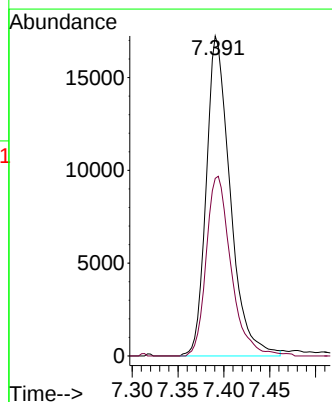
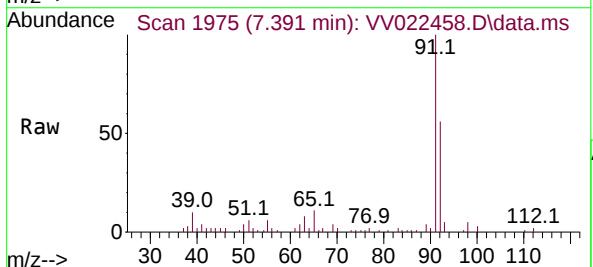
Instrument :
MSVOA_V
ClientSampled :
F4A28

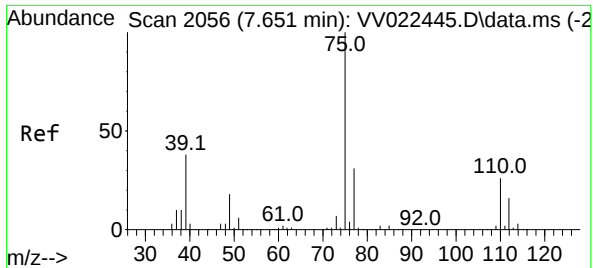
Tgt Ion: 43 Resp: 3702
Ion Ratio Lower Upper
43 100
58 22.7 31.6 47.4#
100 8.1 13.1 19.7#



#42
Toluene
Concen: 3.898 ug/L
RT: 7.391 min Scan# 1975
Delta R.T. 0.003 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 91 Resp: 31342
Ion Ratio Lower Upper
91 100
92 55.5 40.2 74.6

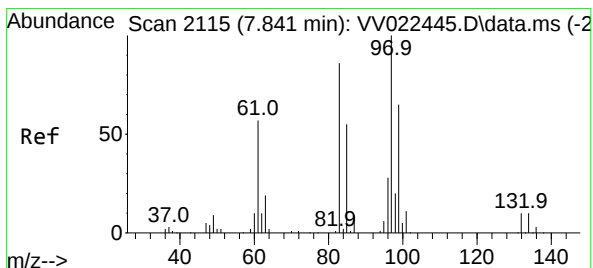
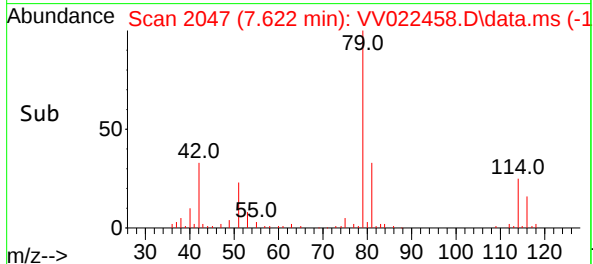
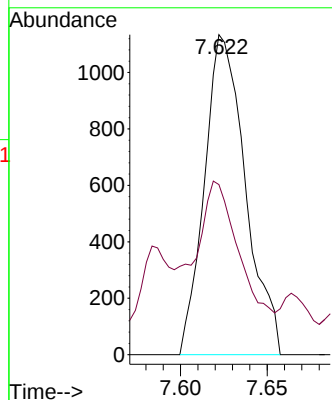
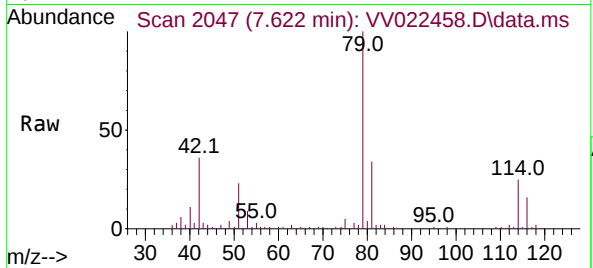




#44
trans-1,3-Dichloropropene
Concen: 0.687 ug/L
RT: 7.622 min Scan# 2047
Delta R.T. -0.029 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

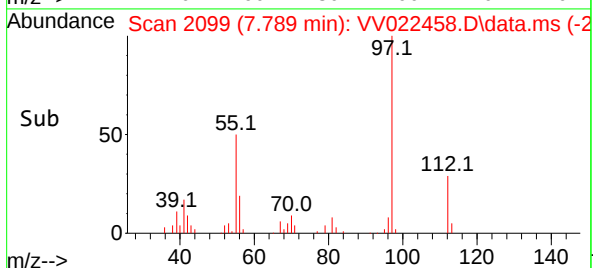
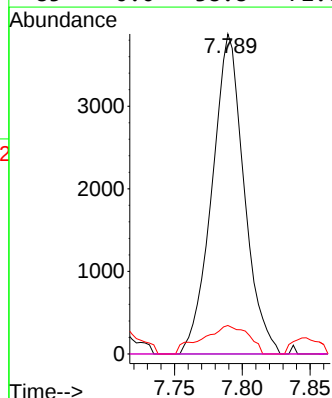
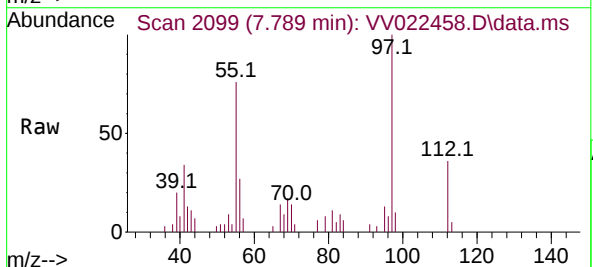
Instrument :
MSVOA_V
ClientSampled :
F4A28

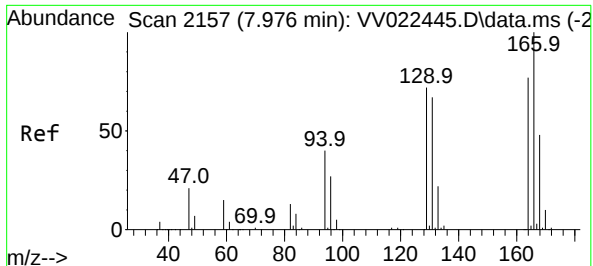
Tgt Ion: 75 Resp: 1866
Ion Ratio Lower Upper
75 100
77 53.2 22.3 41.3#



#45
1,1,2-Trichloroethane
Concen: 3.240 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.051 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 97 Resp: 6374
Ion Ratio Lower Upper
97 100
99 0.0 44.6 82.8#
83 8.9 59.8 111.1#
85 0.0 38.8 72.0#



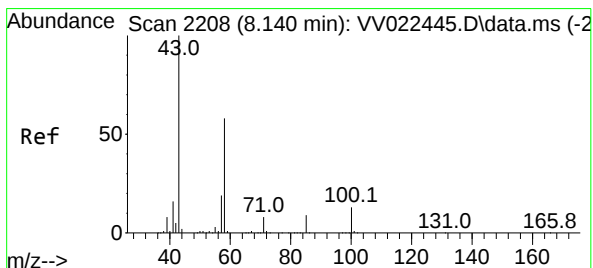
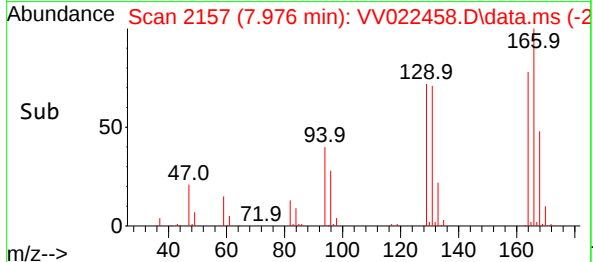
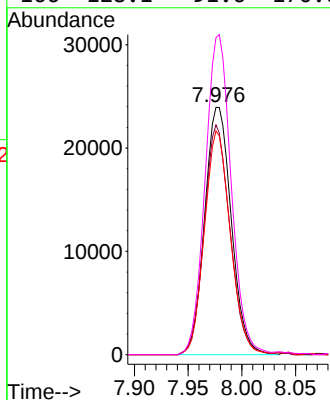
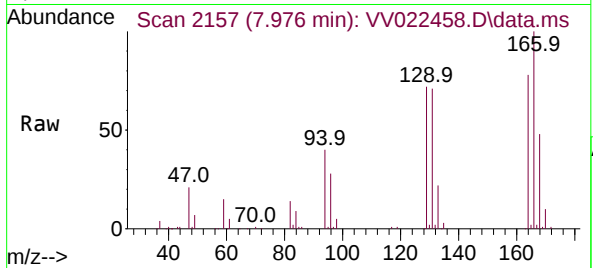


#46
Tetrachloroethene
Concen: 25.871 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Instrument :
MSVOA_V
ClientSampleId :
F4A28

Tgt Ion:164 Resp: 41266

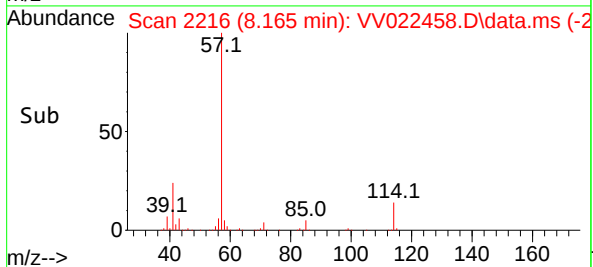
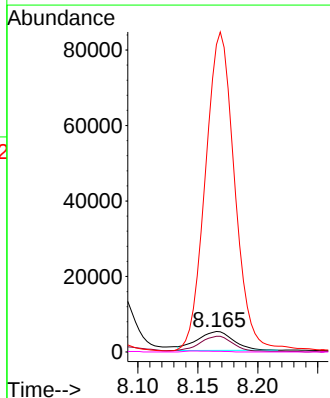
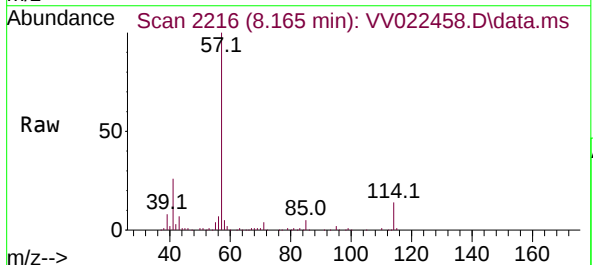
Ion	Ratio	Lower	Upper
164	100		
129	92.9	66.4	123.4
131	90.4	63.6	118.0
166	128.1	91.6	170.0

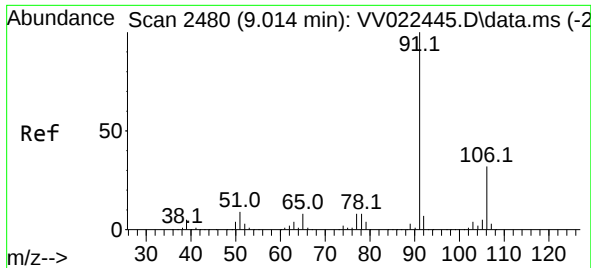


#48
2-Hexanone
Concen: 5.144 ug/L
RT: 8.165 min Scan# 2216
Delta R.T. 0.026 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 43 Resp: 10627

Ion	Ratio	Lower	Upper
43	100		
58	74.3	45.4	68.2#
57	1365.7	15.0	22.4#
100	3.3	10.7	16.1#

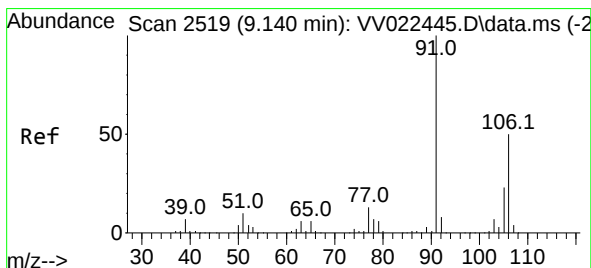
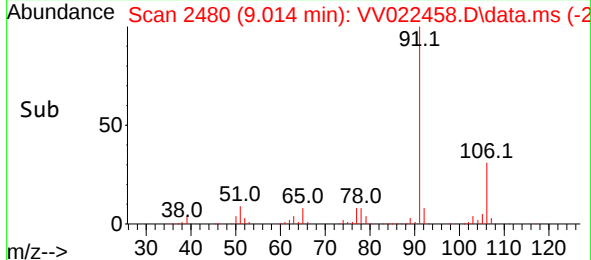
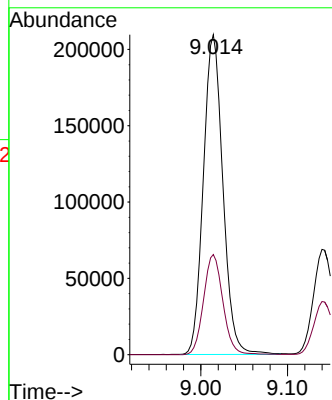
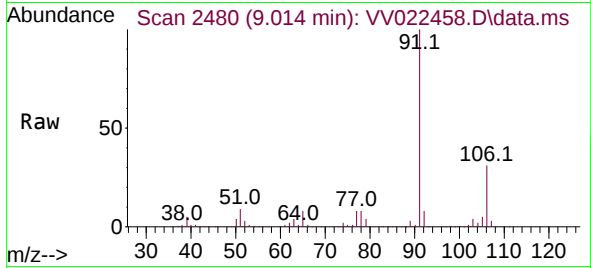




#52
Ethylbenzene
Concen: 38.970 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

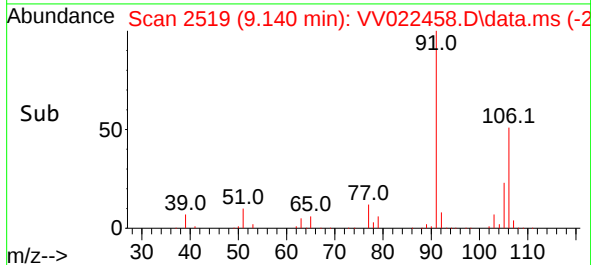
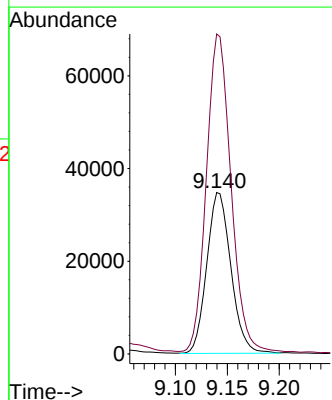
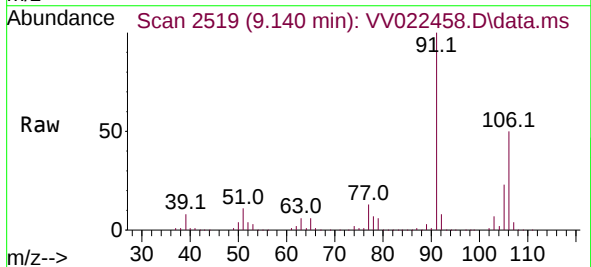
Instrument :
MSVOA_V
ClientSampled :
F4A28

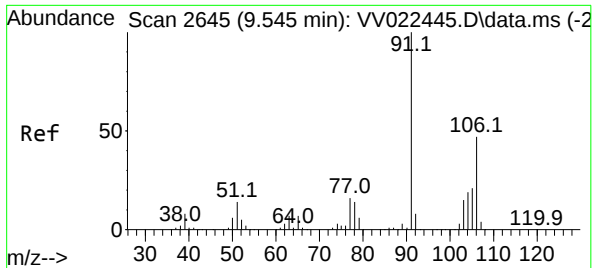
Tgt Ion: 91 Resp: 328206
Ion Ratio Lower Upper
91 100
106 31.3 22.0 40.8



#53
m,p-Xylene
Concen: 17.289 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion: 106 Resp: 56074
Ion Ratio Lower Upper
106 100
91 198.2 139.2 258.6

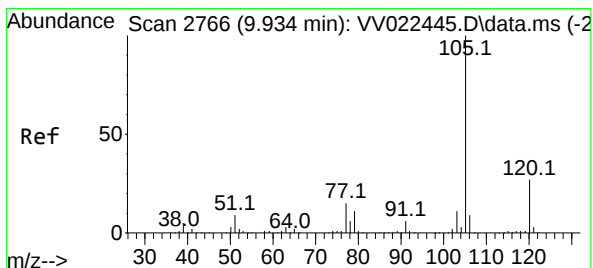
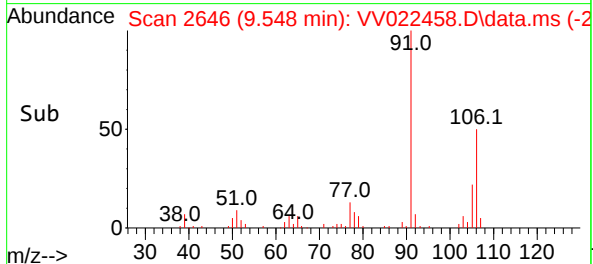
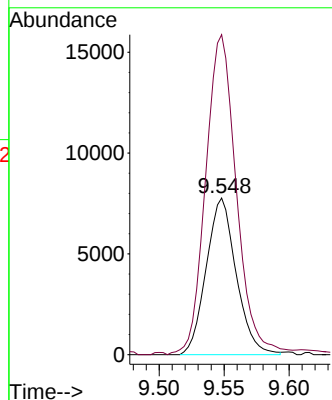
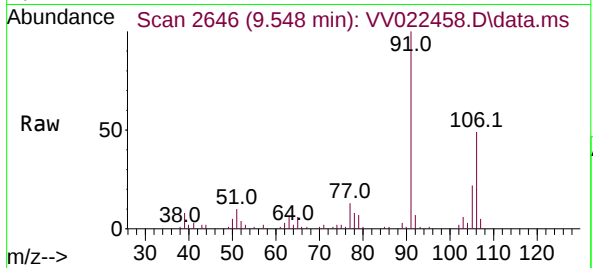




#54
o-Xylene
Concen: 3.957 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. 0.003 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

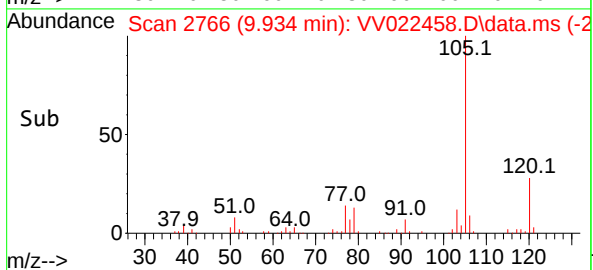
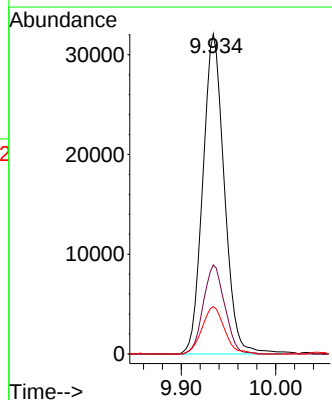
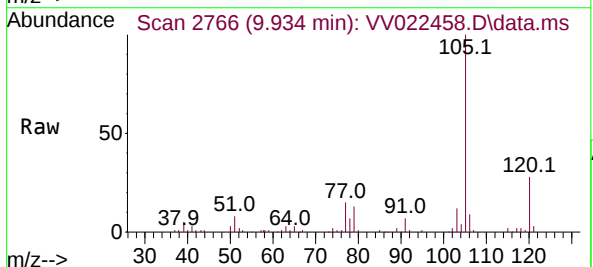
Instrument :
MSVOA_V
ClientSampled :
F4A28

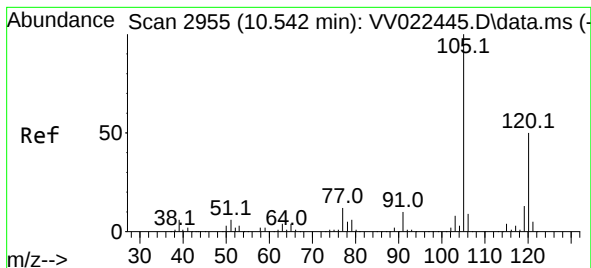
Tgt Ion:106 Resp: 12469
Ion Ratio Lower Upper
106 100
91 204.3 144.9 269.1



#60
Isopropylbenzene
Concen: 6.697 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. -0.000 min
Lab File: VV022458.D
Acq: 01 Oct 2021 02:06

Tgt Ion:105 Resp: 50577
Ion Ratio Lower Upper
105 100
120 27.8 21.5 32.3
77 15.5 12.0 18.0





#62

1,3,5-Trimethylbenzene

Concen: 3.692 ug/L

RT: 10.542 min Scan# 2955

Delta R.T. 0.000 min

Lab File: VV022458.D

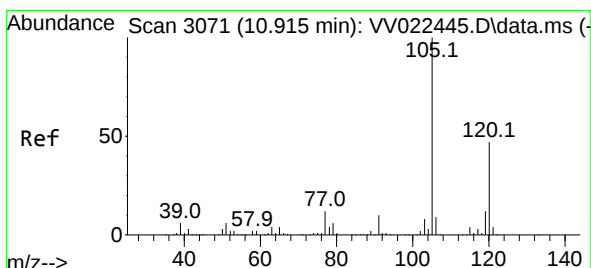
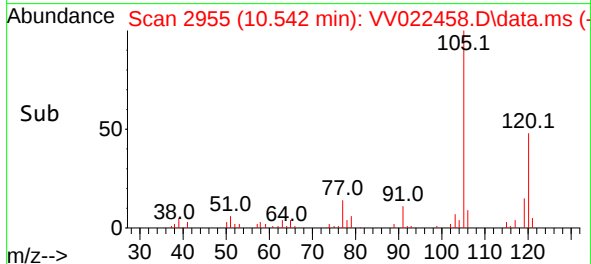
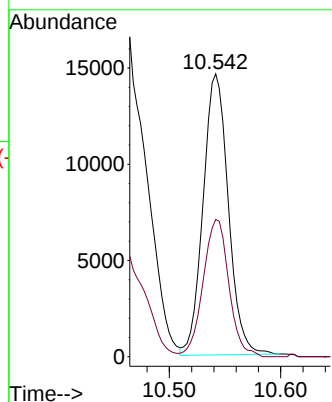
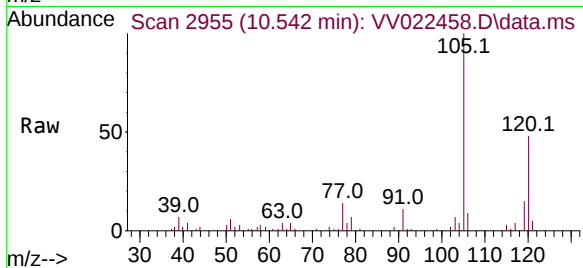
Acq: 01 Oct 2021 02:06

Tgt Ion:105 Resp: 22980

Ion Ratio Lower Upper

105 100

120 49.8 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 39.395 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. -0.000 min

Lab File: VV022458.D

Acq: 01 Oct 2021 02:06

Tgt Ion:105 Resp: 247412

Ion Ratio Lower Upper

105 100

120 46.3 37.3 55.9

