

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100121\
 Data File : VW022499.D
 Acq On : 02 Oct 2021 06:01
 Operator : SY/MD
 Sample : M4023-09
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampled :
 C0AJ8

Manual Integrations
 APPROVED

MMDadoda

10/6/2021 2:24:52 PM

Quant Time: Oct 02 06:33:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM100121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 02 01:27:14 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	242621	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	242056	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	126512	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	70107	46.722	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.440%
7) Chloroethane-d5	1.568	69	59526	50.467	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.940%
11) 1,1-Dichloroethene-d2	2.114	63	5169232	1747.145	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	3494.300%#
21) 2-Butanone-d5	3.909	46	77429	93.745	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.740%
24) Chloroform-d	4.355	84	129729	47.321	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.640%
26) 1,2-Dichloroethane-d4	5.037	65	79247	49.831	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.660%
32) Benzene-d6	5.060	84	263604	47.008	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.020%
36) 1,2-Dichloropropane-d6	6.095	67	84860	49.157	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.320%
41) Toluene-d8	7.320	98	249441	48.493	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.980%
43) trans-1,3-Dichloroprop...	7.625	79	39028	47.783	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.560%
47) 2-Hexanone-d5	8.092	63	67015	93.710	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.710%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	110133	45.879	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.760%
66) 1,2-Dichlorobenzene-d4	11.625	152	98268	47.631	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.260%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	33091	14.469	ug/L	92
12) 1,1-Dichloroethene	2.118	96	8625152	5089.210	ug/L #	68
14) Carbon disulfide	2.294	76	3884	0.759	ug/L	99
16) Methylene chloride	2.507	84	4987	2.342	ug/L	97
17) trans-1,2-Dichloroethene	2.764	96	25185	13.537	ug/L	100
19) 1,1-Dichloroethane	3.191	63	543237	165.022	ug/L	98
20) cis-1,2-Dichloroethene	3.918	96	16821965	8487.321	ug/L	94
25) Chloroform	4.381	83	45743	13.809	ug/L	97
27) 1,2-Dichloroethane	5.140	62	41909	17.472	ug/L	99
30) 1,1,1-Trichloroethane	4.622	97	17152845	5672.730	ug/L	96
33) Benzene	5.114	78	8264	1.106	ug/L	100
34) Trichloroethene	5.934	95	53250247m	27287.819	ug/L	
40) 4-Methyl-2-pentanone	7.240	43	7286	2.710	ug/L	97
42) Toluene	7.391	91	314363	39.930	ug/L	100
45) 1,1,2-Trichloroethane	7.841	97	174507	88.098	ug/L	99
46) Tetrachloroethene	7.979	164	12136	7.429	ug/L	92
52) Ethylbenzene	9.014	91	572339	69.850	ug/L	98
53) m,p-Xylene	9.140	106	991408	305.389	ug/L	99
54) o-Xylene	9.545	106	671884	212.429	ug/L	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	9.934	105	19170	2.382	ug/L	99
61) 1,2,3-Trichloropropane	10.275	75	4331	1.800	ug/L	97
63) 1,2,4-Trimethylbenzene	10.918	105	6907	1.025	ug/L	98

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

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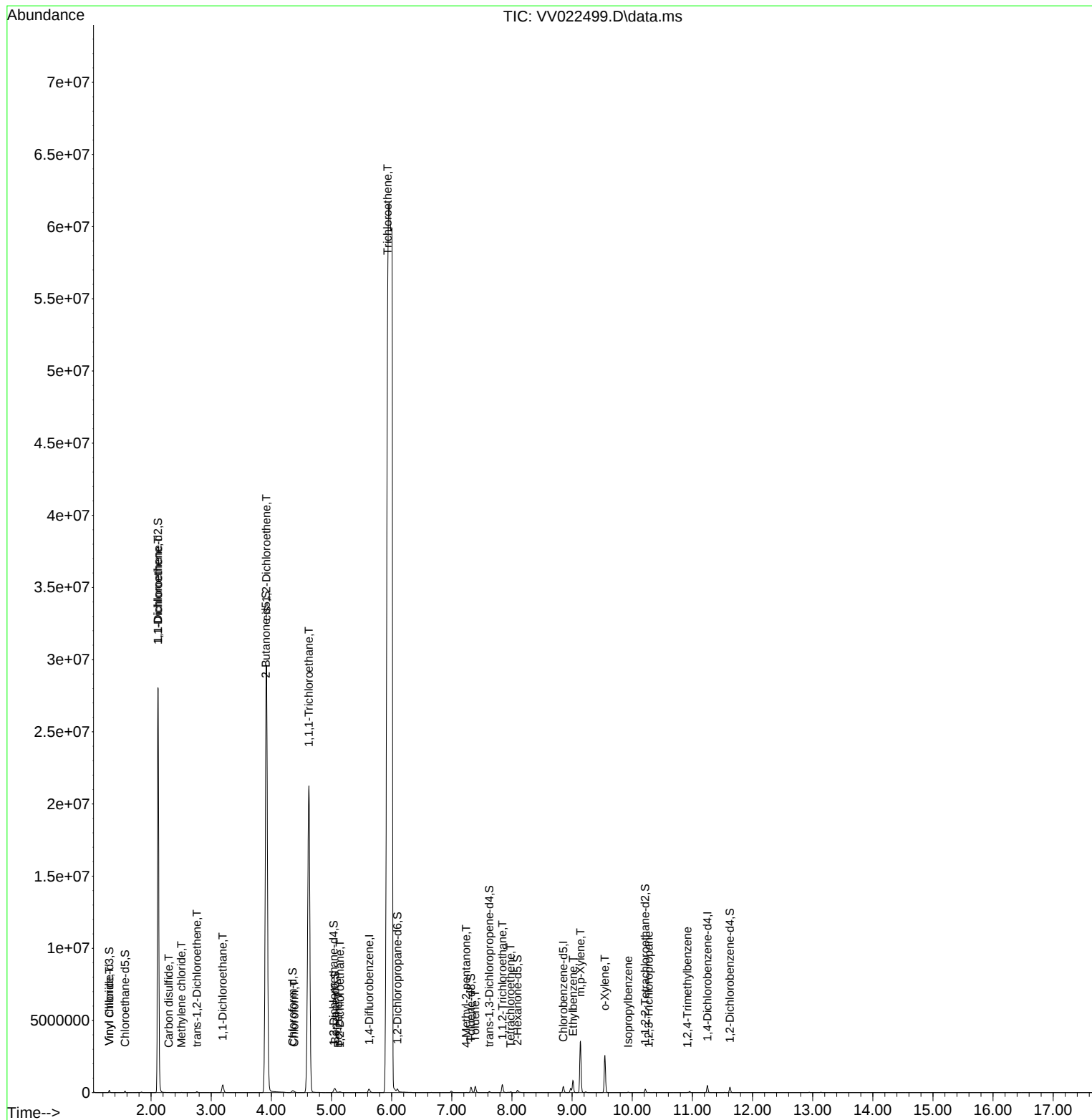
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MSVOA_V
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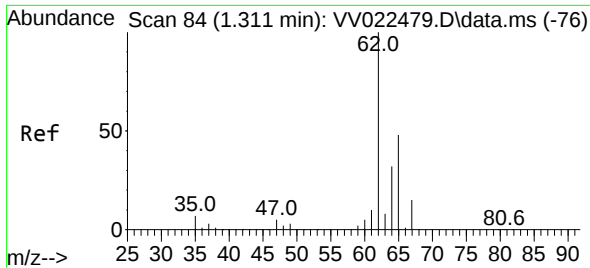
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM100121WMA.M
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#5
 Vinyl chloride
 Concen: 14.469 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.003 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

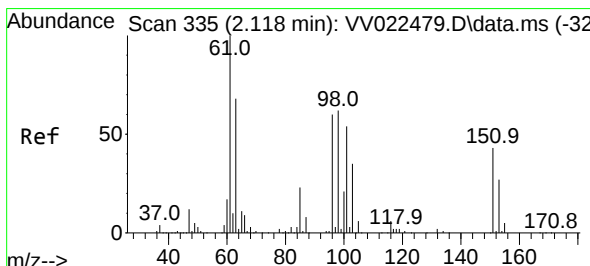
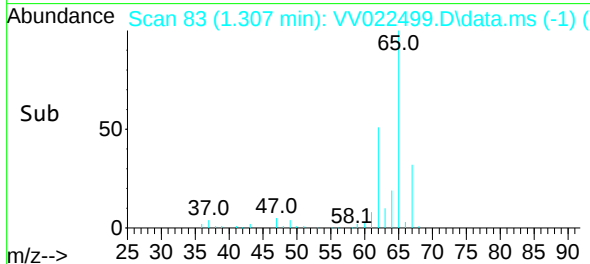
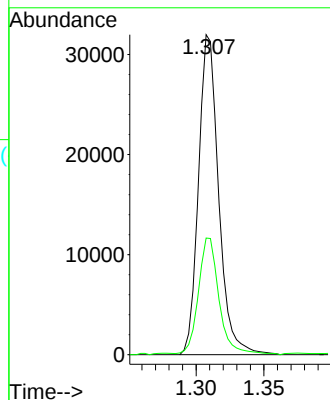
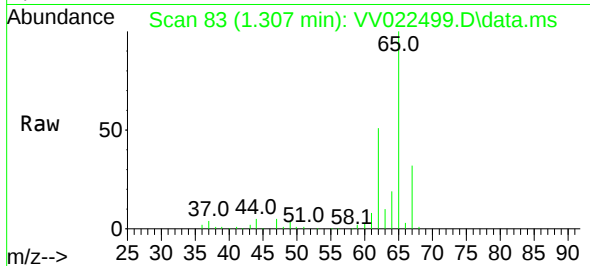
Tgt Ion: 62 Resp: 33091
 Ion Ratio Lower Upper
 62 100
 64 36.4 22.5 41.9

Instrument :
 MSVOA_V
 ClientSampled :
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Manual Integrations
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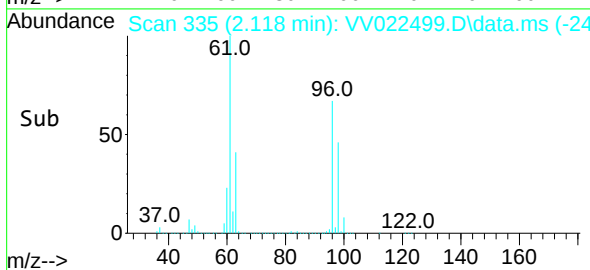
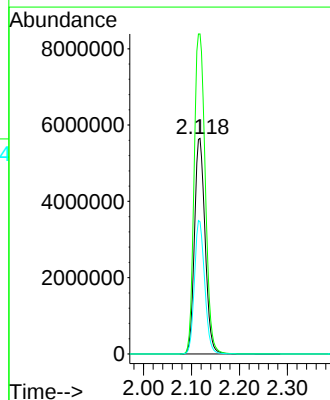
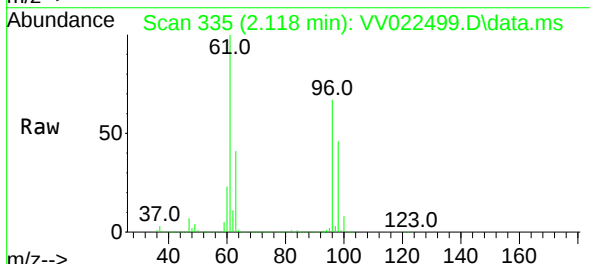
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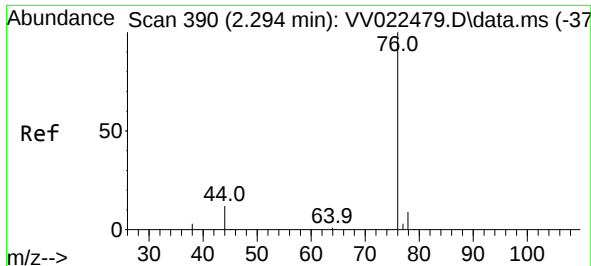
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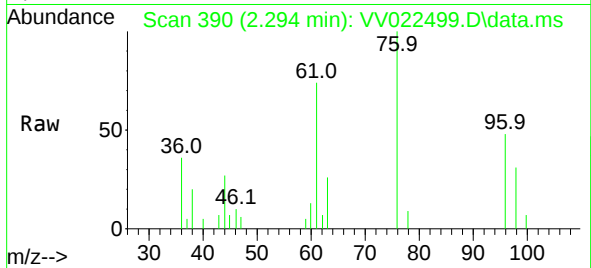
#12
 1,1-Dichloroethene
 Concen: 5089.210 ug/L
 RT: 2.118 min Scan# 335
 Delta R.T. 0.000 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

Tgt Ion: 96 Resp: 8625152
 Ion Ratio Lower Upper
 96 100
 61 148.5 118.0 219.2
 63 61.3 86.4 160.4#

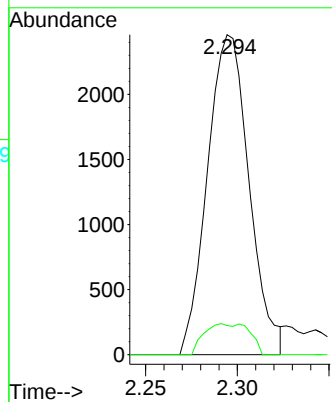
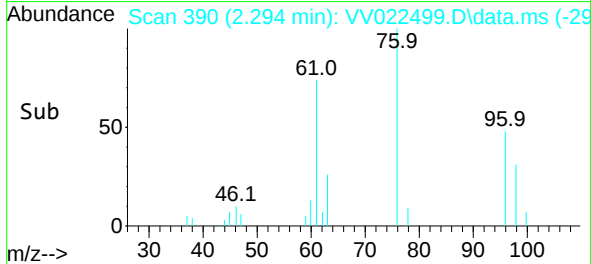




#14
Carbon disulfide
Concen: 0.759 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



Tgt Ion: 76 Resp: 3884
Ion Ratio Lower Upper
76 100
78 9.1 7.6 11.4

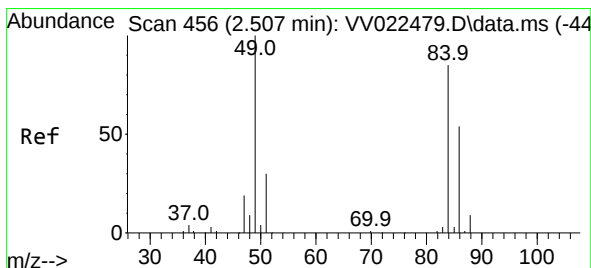


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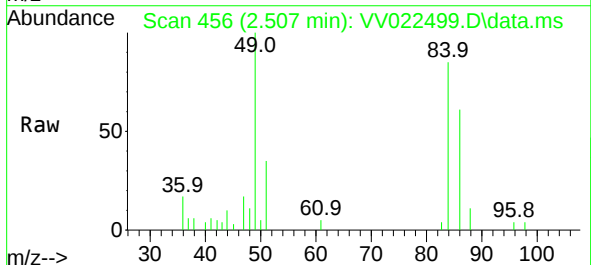
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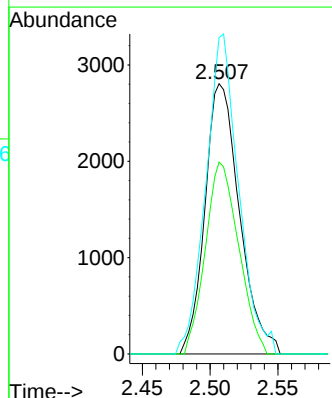
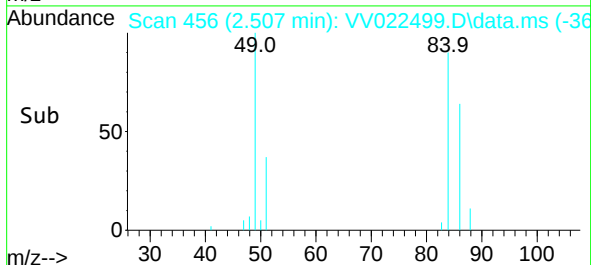
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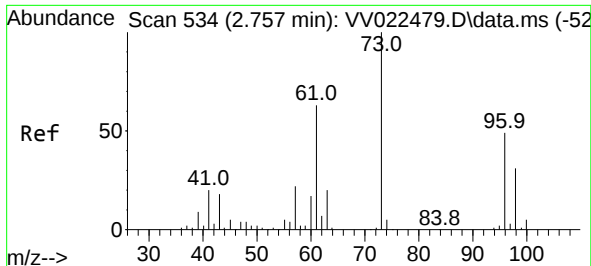


#16
Methylene chloride
Concen: 2.342 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



Tgt Ion: 84 Resp: 4987
Ion Ratio Lower Upper
84 100
86 71.0 45.6 84.6
49 117.1 82.7 153.7





#17
trans-1,2-Dichloroethene
Concen: 13.537 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.006 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

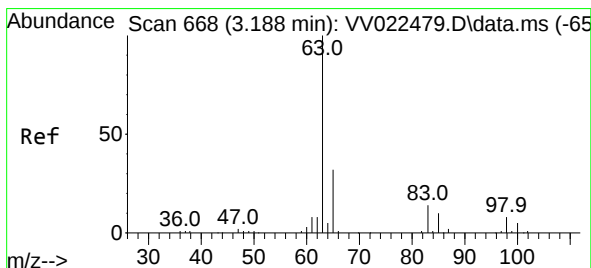
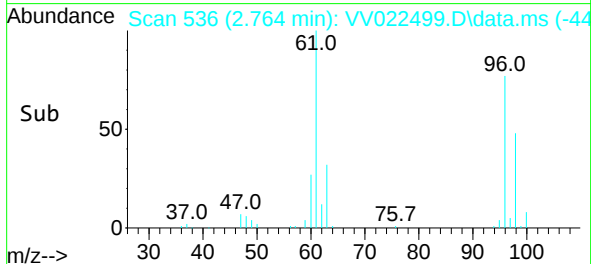
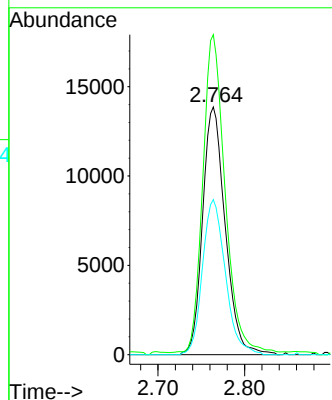
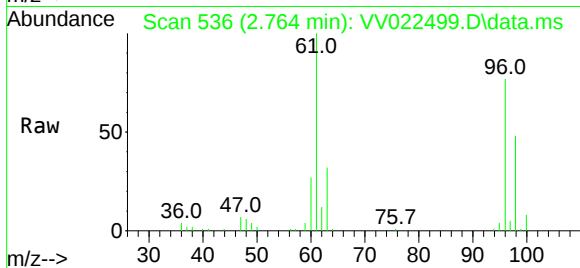
Tgt Ion:	96	Resp:	25185
Ion	Ratio	Lower	Upper
96	100		
61	129.2	90.8	168.6
98	62.6	44.0	81.8

Instrument :
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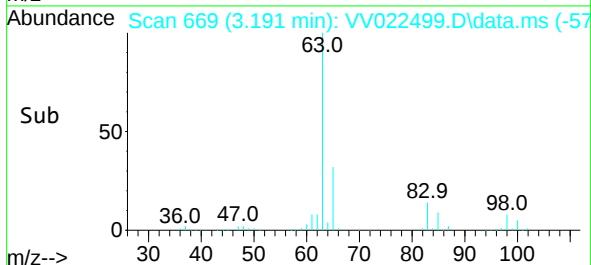
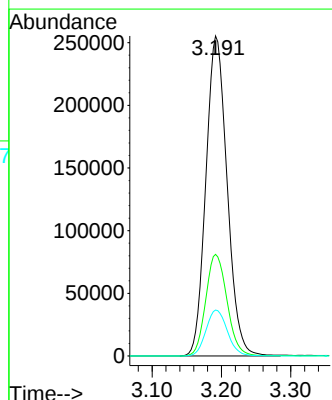
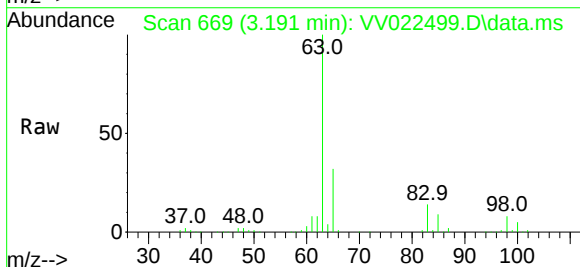
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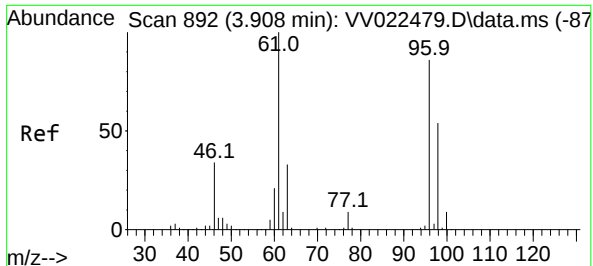
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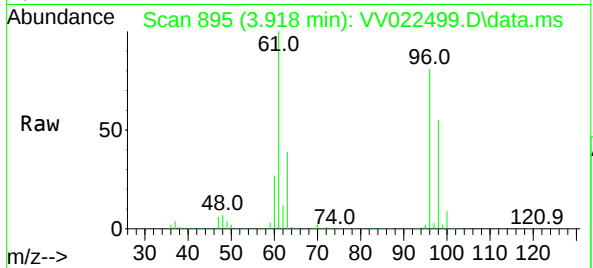
#19
1,1-Dichloroethane
Concen: 165.022 ug/L
RT: 3.191 min Scan# 669
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion:	63	Resp:	543237
Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.9	42.5
83	14.4	9.4	17.4



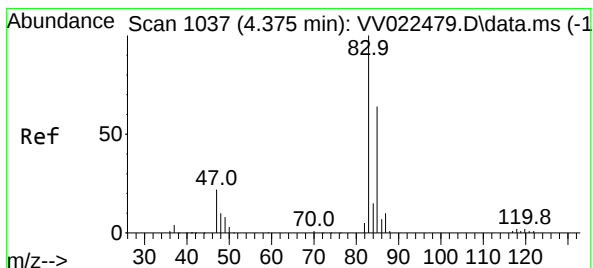
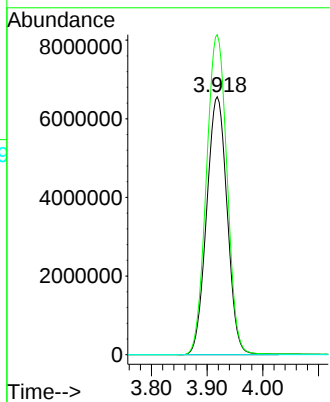
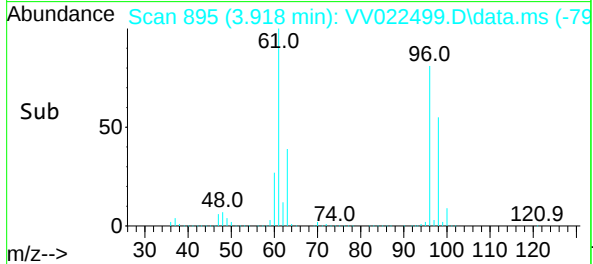


#20
cis-1,2-Dichloroethene
Concen: 8487.321 ug/L
RT: 3.918 min Scan# 895
Delta R.T. 0.010 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

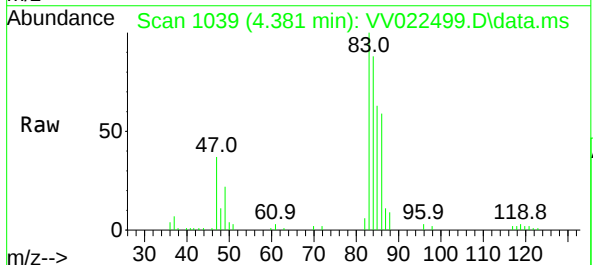


Tgt Ion: 96 Resp: 16821965

Ion	Ratio	Lower	Upper
96	100		
61	124.1	81.9	152.1
68	0.0	0.0	0.0

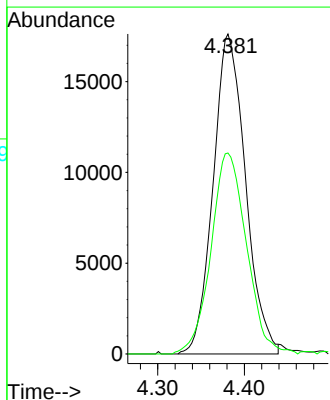
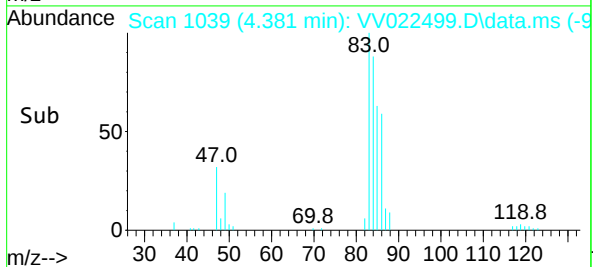


#25
Chloroform
Concen: 13.809 ug/L
RT: 4.381 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



Tgt Ion: 83 Resp: 45743

Ion	Ratio	Lower	Upper
83	100		
85	62.8	45.8	85.0

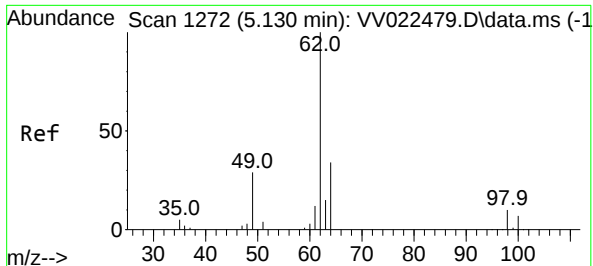


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10/6/2021 2:24:52 PM



#27

1,2-Dichloroethane

Concen: 17.472 ug/L

RT: 5.140 min Scan# 1275

Delta R.T. 0.010 min

Lab File: VV022499.D

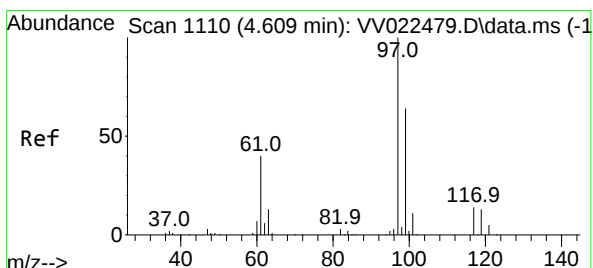
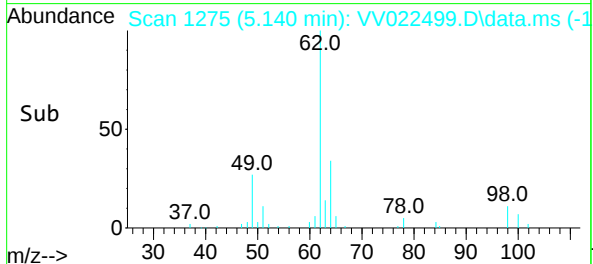
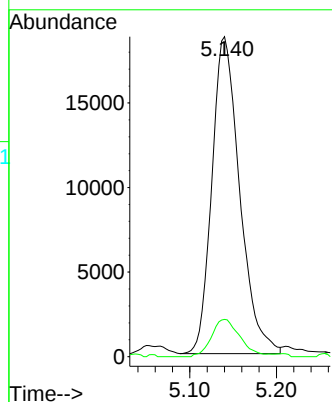
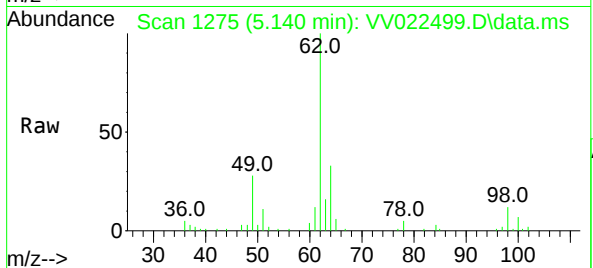
Acq: 02 Oct 2021 06:01

Tgt Ion: 62 Resp: 41909

Ion Ratio Lower Upper

62 100

98 11.7 9.0 13.4



#30

1,1,1-Trichloroethane

Concen: 5672.730 ug/L

RT: 4.622 min Scan# 1114

Delta R.T. 0.013 min

Lab File: VV022499.D

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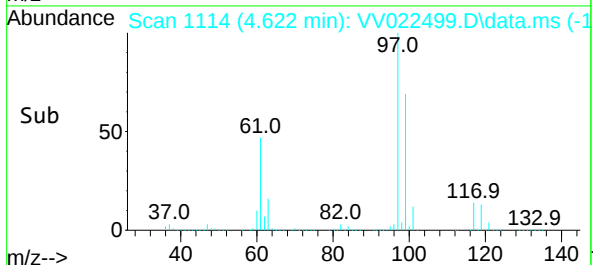
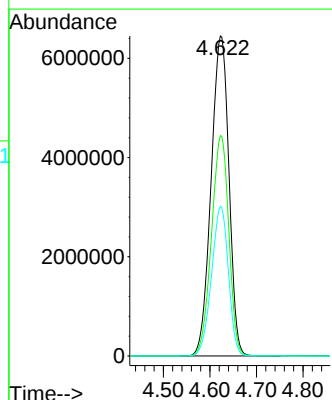
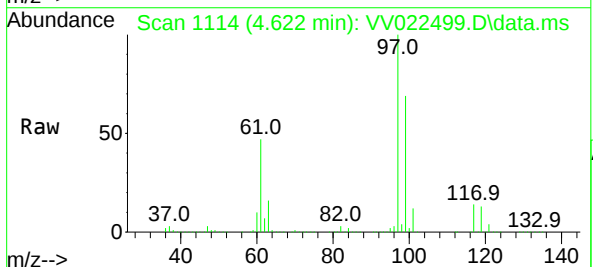
Tgt Ion: 97 Resp: 17152845

Ion Ratio Lower Upper

97 100

99 67.2 51.7 77.5

61 44.3 32.9 49.3



Instrument :

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ClientSampled :

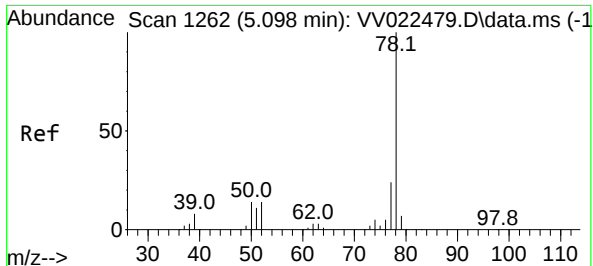
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10/6/2021 2:24:52 PM



#33
Benzene
Concen: 1.106 ug/L
RT: 5.114 min Scan# 1267
Delta R.T. 0.016 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

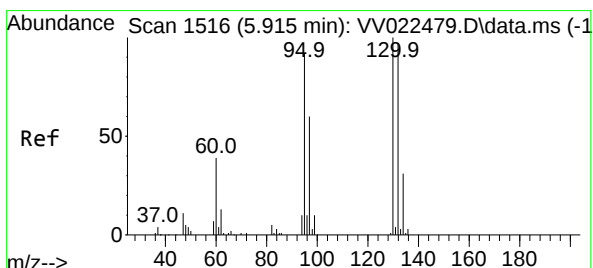
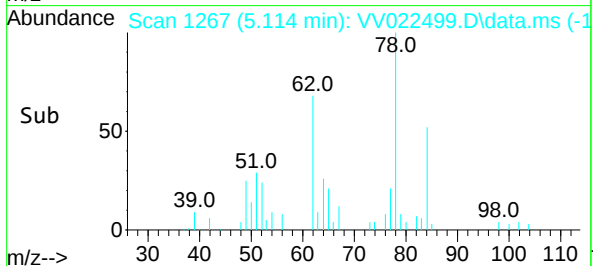
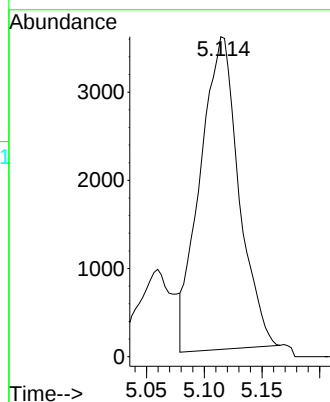
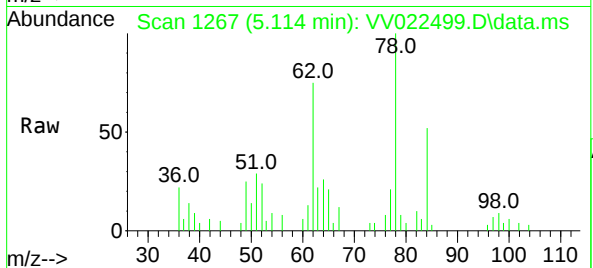
Tgt Ion: 78 Resp: 8264

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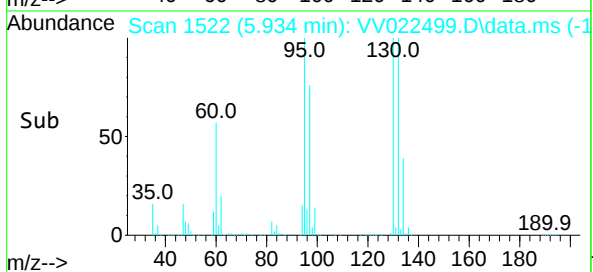
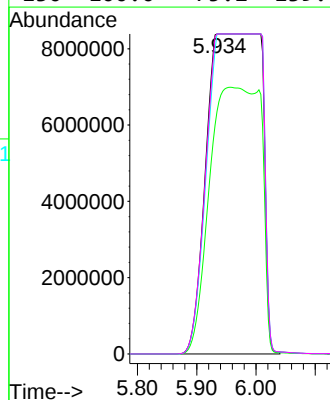
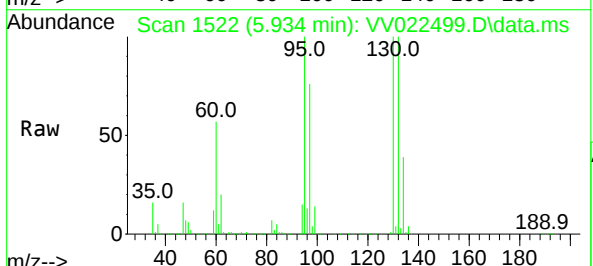
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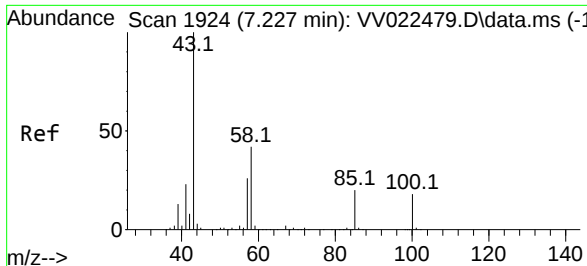


#34
Trichloroethene
Concen: 27287.819 ug/L m
RT: 5.934 min Scan# 1522
Delta R.T. 0.019 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 95 Resp: 53250247

Ion	Ratio	Lower	Upper
95	100		
97	75.8	45.4	84.4
132	100.0	71.5	132.9
130	100.0	75.2	139.6





#40
4-Methyl-2-pentanone
Concen: 2.710 ug/L
RT: 7.240 min Scan# 1928
Delta R.T. 0.013 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 43 Resp: 7286

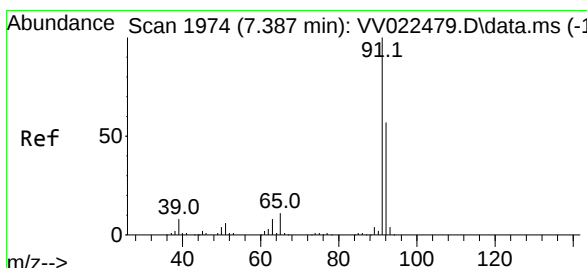
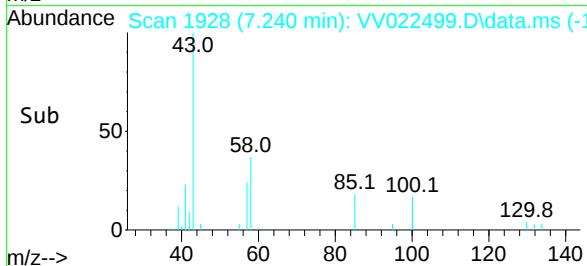
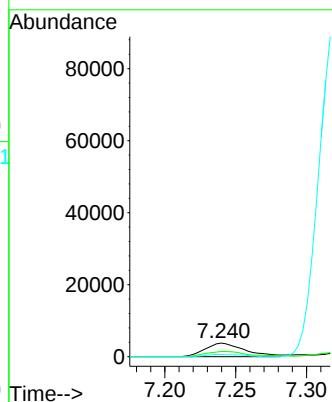
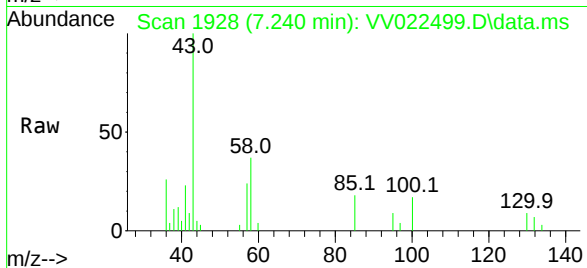
Ion	Ratio	Lower	Upper
43	100		
58	42.2	32.5	48.7
100	15.4	13.9	20.9

Instrument :
MSVOA_V
ClientSampled :
C0AJ8

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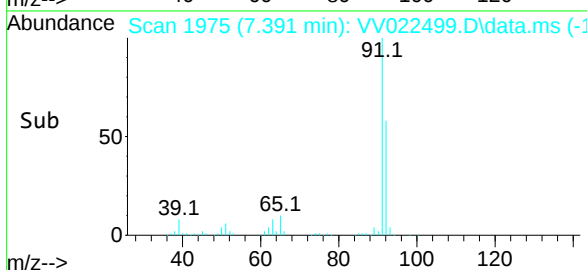
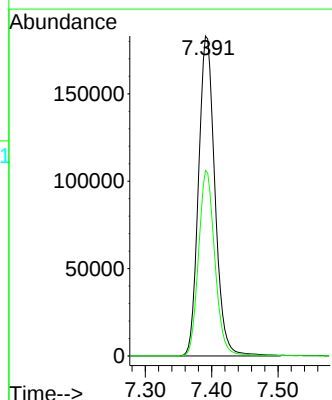
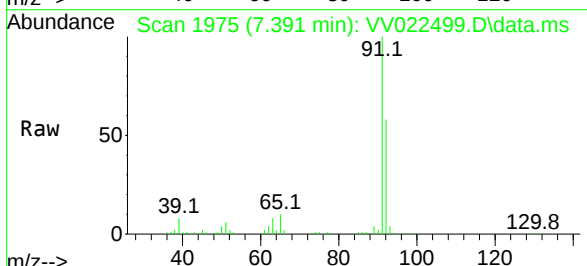
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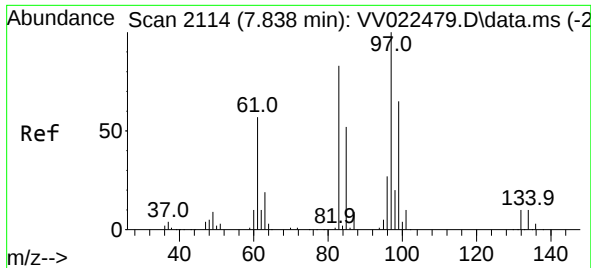


#42
Toluene
Concen: 39.930 ug/L
RT: 7.391 min Scan# 1975
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

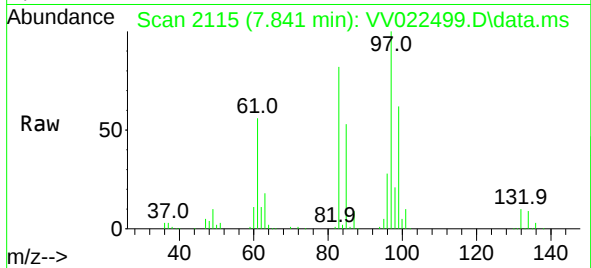
Tgt Ion: 91 Resp: 314363

Ion	Ratio	Lower	Upper
91	100		
92	57.9	40.6	75.4

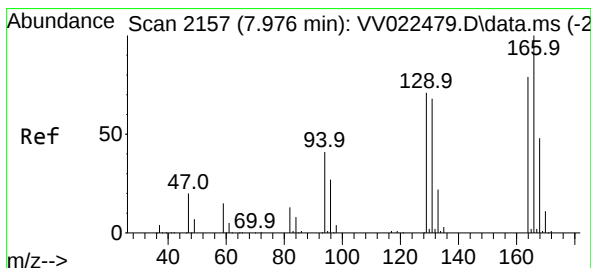
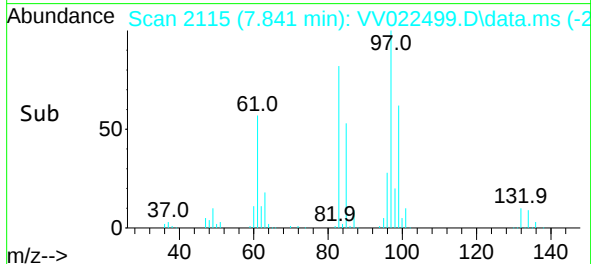
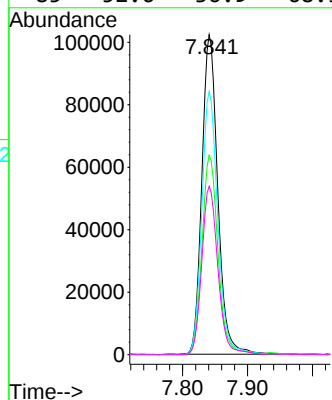




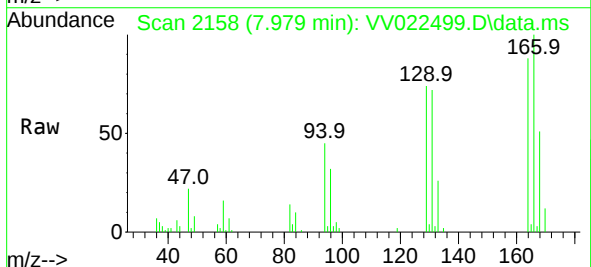
#45
1,1,2-Trichloroethane
Concen: 88.098 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



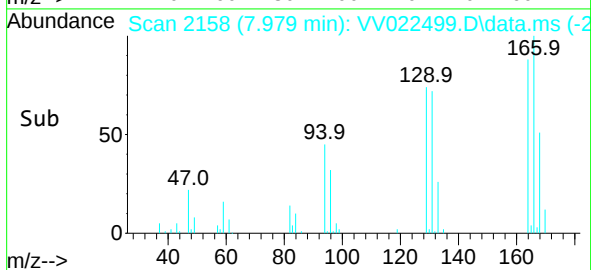
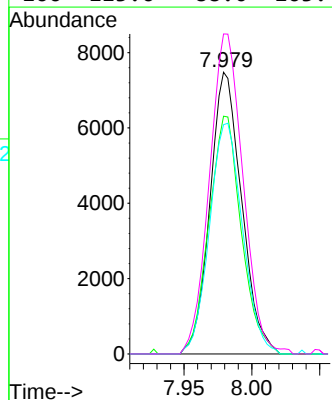
Tgt Ion:	97	Resp:	174507
Ion	Ratio	Lower	Upper
97	100		
99	62.3	43.1	80.1
83	82.3	58.6	108.8
85	52.6	36.9	68.5



#46
Tetrachloroethene
Concen: 7.429 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



Tgt Ion:	164	Resp:	12136
Ion	Ratio	Lower	Upper
164	100		
129	84.4	64.6	120.0
131	81.4	59.9	111.3
166	113.6	88.0	163.4

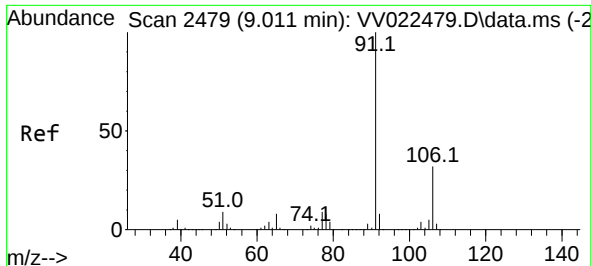


Instrument :
MSVOA_V
ClientSampleId :
C0AJ8

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10/6/2021 2:24:52 PM



#52

Ethylbenzene

Concen: 69.850 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV022499.D

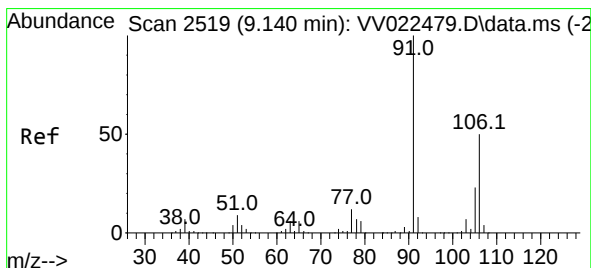
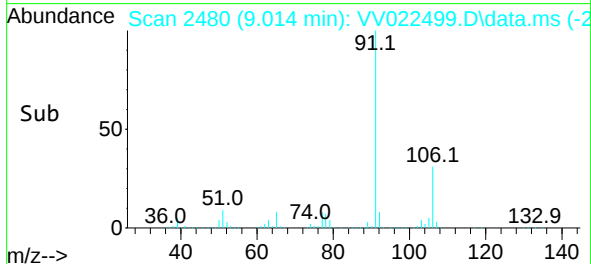
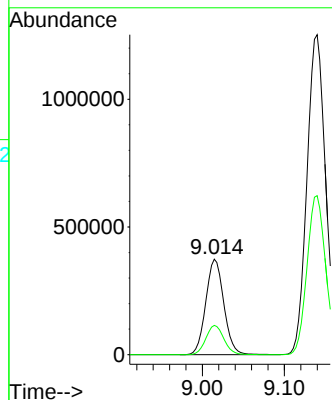
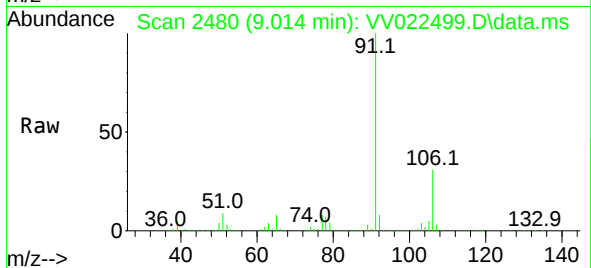
Acq: 02 Oct 2021 06:01

Tgt Ion: 91 Resp: 572339

Ion Ratio Lower Upper

91 100

106 30.7 22.0 41.0



#53

m,p-Xylene

Concen: 305.389 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.000 min

Lab File: VV022499.D

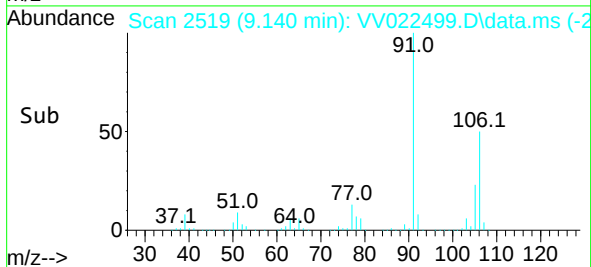
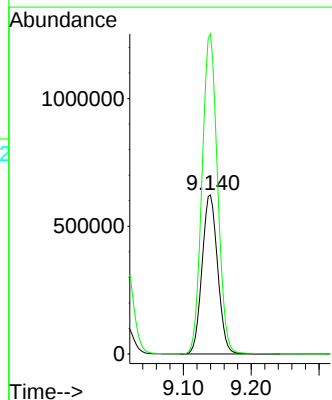
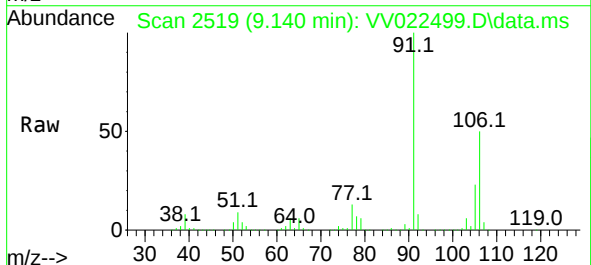
Acq: 02 Oct 2021 06:01

Tgt Ion: 106 Resp: 991408

Ion Ratio Lower Upper

106 100

91 201.2 139.4 258.8



Instrument :

MSVOA_V

ClientSampleId :

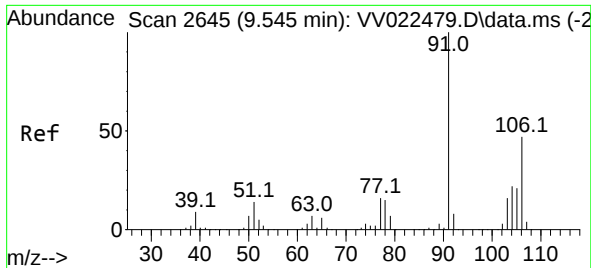
C0AJ8

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10/6/2021 2:24:52 PM



#54
o-Xylene
Concen: 212.429 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

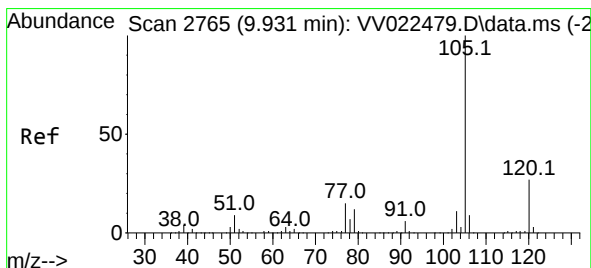
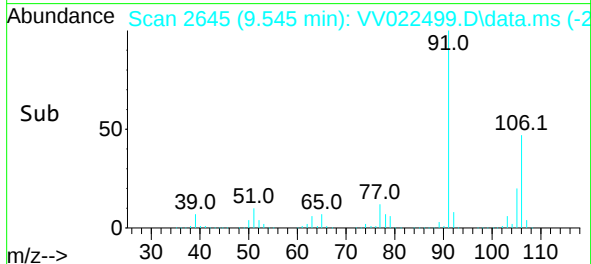
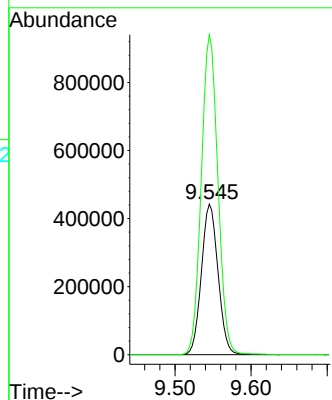
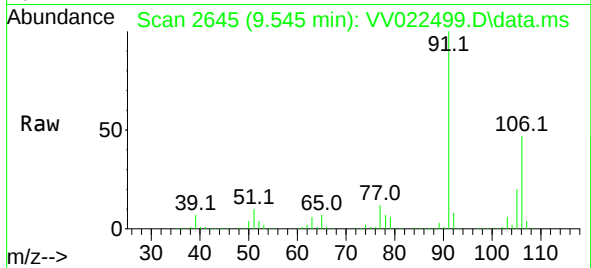
Tgt Ion:106 Resp: 671884
Ion Ratio Lower Upper
106 100
91 212.6 148.7 276.1

Instrument :
MSVOA_V
ClientSampled :
C0AJ8

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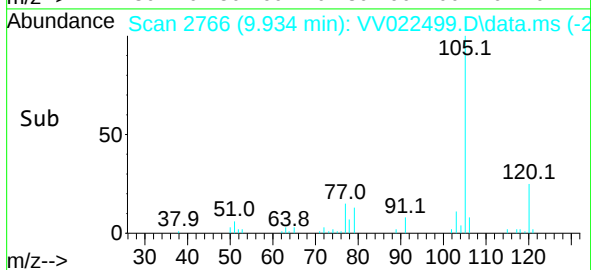
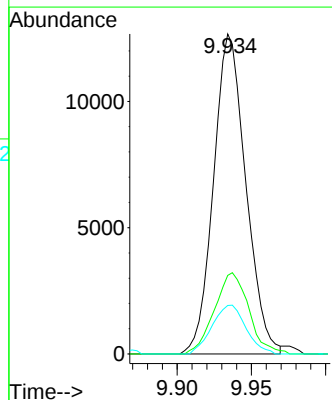
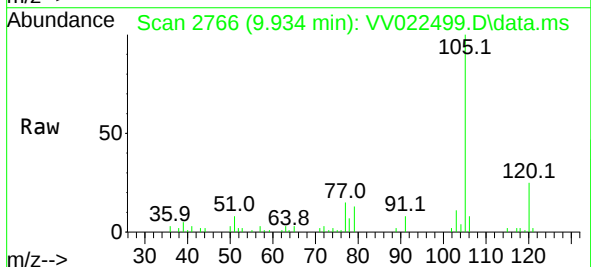
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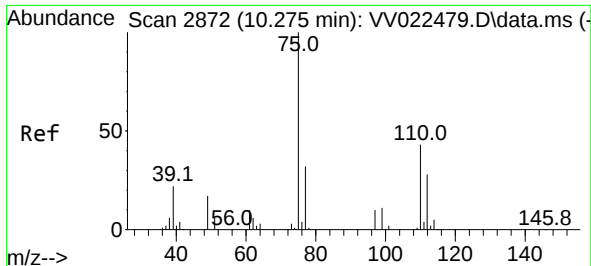
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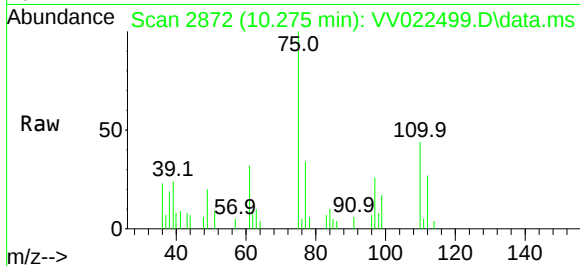
#60
Isopropylbenzene
Concen: 2.382 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion:105 Resp: 19170
Ion Ratio Lower Upper
105 100
120 27.1 21.6 32.4
77 16.0 12.0 18.0

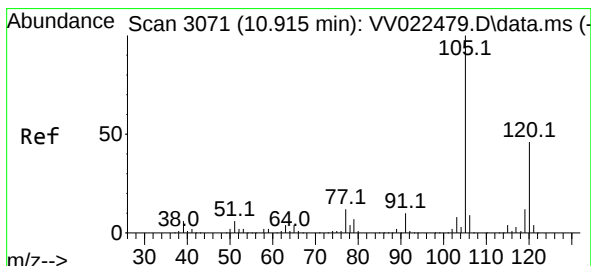
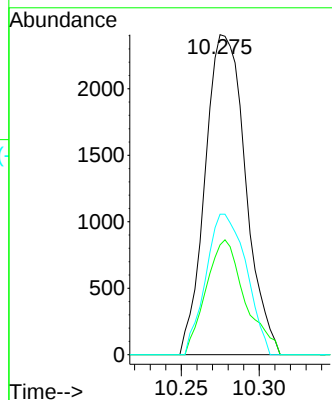
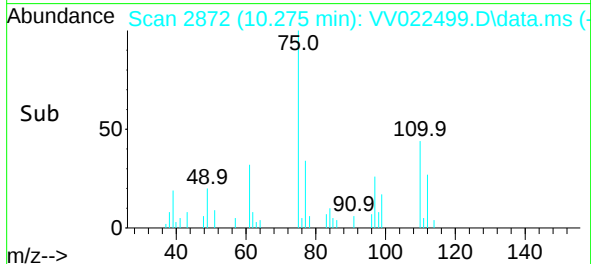




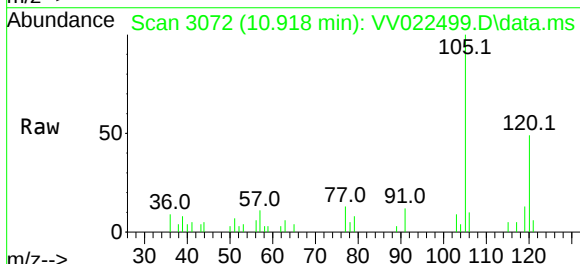
#61
1,2,3-Trichloropropane
Concen: 1.800 ug/L
RT: 10.275 min Scan# 2872
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



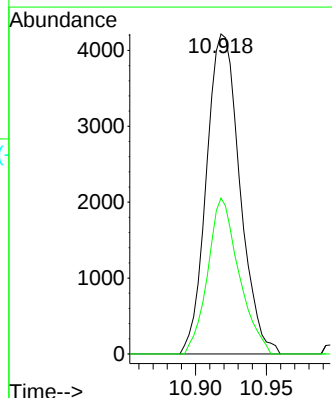
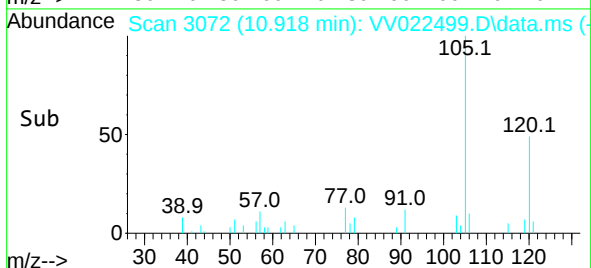
Tgt Ion: 75 Resp: 4331
Ion Ratio Lower Upper
75 100
77 34.7 26.0 39.0
110 43.9 34.3 51.5



#63
1,2,4-Trimethylbenzene
Concen: 1.025 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01



Tgt Ion: 105 Resp: 6907
Ion Ratio Lower Upper
105 100
120 45.5 37.4 56.0



Instrument :
MSVOA_V
ClientSampleId :
C0AJ8

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