

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018812.D
 Acq On : 09 Oct 2020 12:28
 Operator : SY/MD
 Sample : L4239-11
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7

Manual Integrations
 APPROVED

MMDadoda
 10/12/2020 3:38:03 PM

Quant Time: Oct 10 00:54:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 09 23:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	312760	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	292410	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	180103	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	123300	43.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.78%
7) Chloroethane-d5	1.58	69	105816	46.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.52%
11) 1,1-Dichloroethene-d2	2.12	63	189481	34.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.16%
21) 2-Butanone-d5	3.90	46	201148	115.28	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.28%
24) Chloroform-d	4.37	84	235210	46.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.82%
26) 1,2-Dichloroethane-d4	5.05	65	167692	49.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.68%
32) Benzene-d6	5.07	84	463588	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
36) 1,2-Dichloropropane-d6	6.09	67	154933	50.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.98%
41) Toluene-d8	7.34	98	417198	49.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.88%
43) trans-1,3-Dichloropropene-	7.64	79	75210	50.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.28%
47) 2-Hexanone-d5	8.11	63	138692	128.96	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	128.96%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	211661	59.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	119.92%
64) 1,2-Dichlorobenzene-d4	11.65	152	194762	48.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.72%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.18	43	6787	4.667	ug/L	98
19) 1,1-Dichloroethane	3.22	63	3184m	0.710	ug/L	
20) cis-1,2-Dichloroethene	3.94	96	22765	9.427	ug/L	94
29) Cyclohexane	4.70	56	155559	43.929	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	171796	44.082	ug/L	99
34) Trichloroethene	5.94	95	20795	7.788	ug/L	99
35) Methylcyclohexane	6.15	83	7491	2.293	ug/L	91
42) Toluene	7.41	91	2793729	293.192	ug/L	98
46) Tetrachloroethene	8.00	164	10554	5.394	ug/L	97
51) Chlorobenzene	8.90	112	5708	0.903	ug/L	97
52) Ethylbenzene	9.03	91	537761	49.698	ug/L	100
53) m,p-Xylene	9.16	106	764396	192.449	ug/L	99
54) o-xylene	9.56	106	340385	90.230	ug/L	99
56) Isopropylbenzene	9.95	105	993303	95.162	ug/L	100
62) 1,3-Dichlorobenzene	11.21	146	12421	2.115	ug/L	97
63) 1,4-Dichlorobenzene	11.30	146	14741	2.413	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	38004	6.447	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Fri Oct 09 23:43:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.28	180	602542	168.482	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	174361	49.114	ug/L	97

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

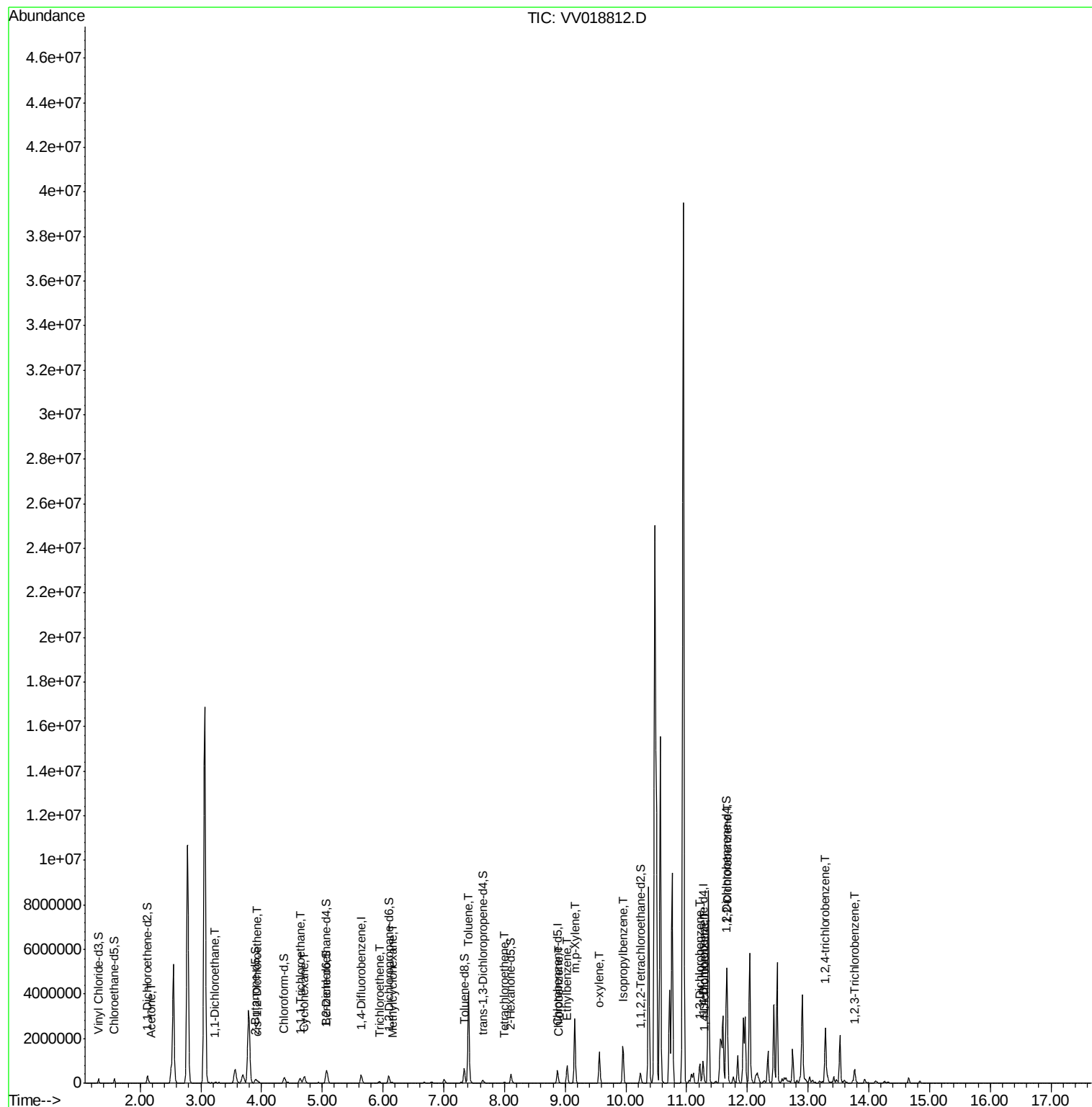
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Data File : VV018812.D
Acq On : 09 Oct 2020 12:28
Operator : SY/MD
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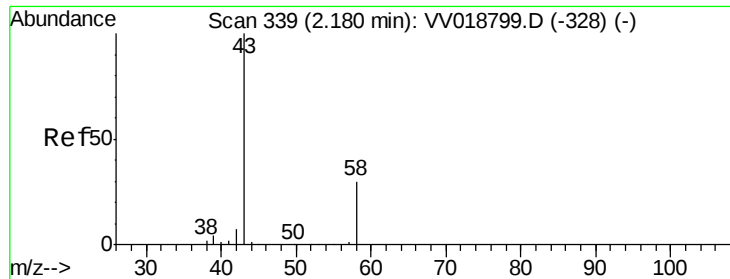
Instrument :
MSVOA_V
ClientSampleId :
BG3P7

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 09 23:43:53 2020
Response via : Initial Calibration





#13

Acetone

Concen: 4.667 ug/L

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Instrument :

MSVOA_V

ClientSampled :

BG3P7

Tot Ion: 43 Resp: 6787

Ion Ratio Lower Upper

43 100

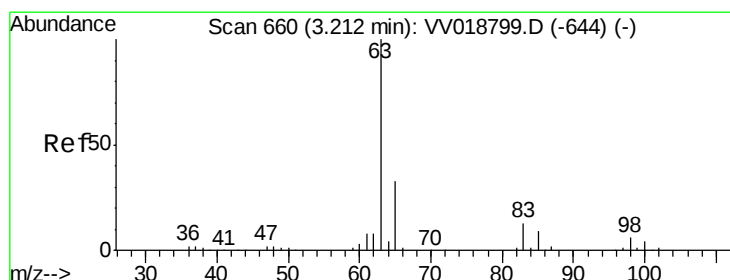
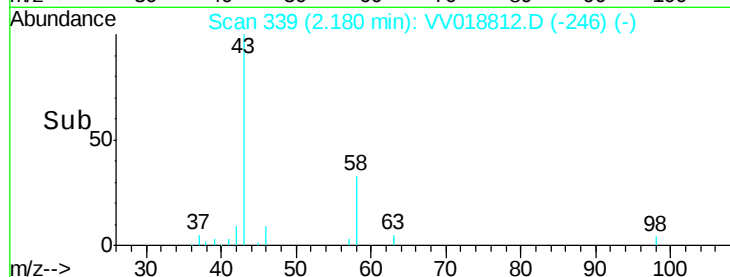
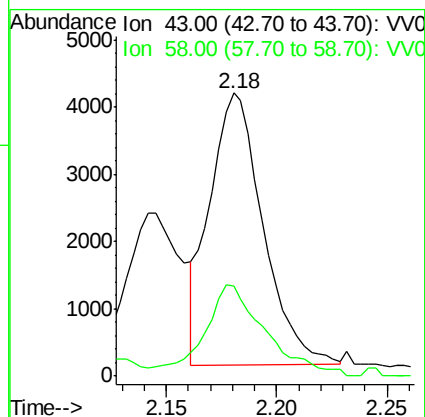
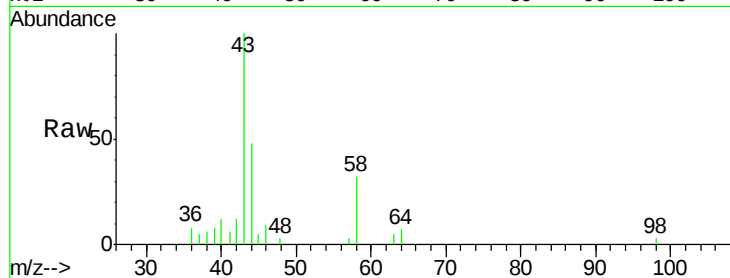
58 29.5 0.0 61.0

Manual Integrations

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#19

1,1-Dichloroethane

Concen: 0.710 ug/L m

RT: 3.22 min Scan# 662

Delta R.T. 0.01 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

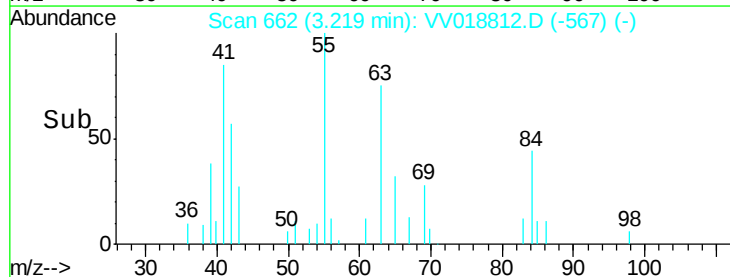
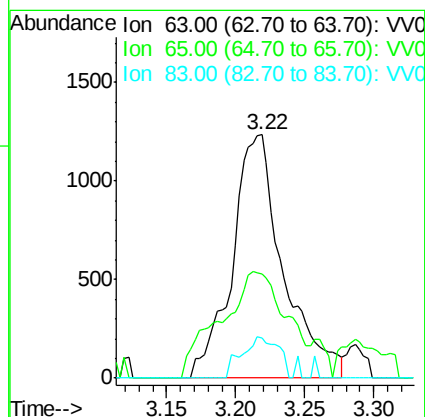
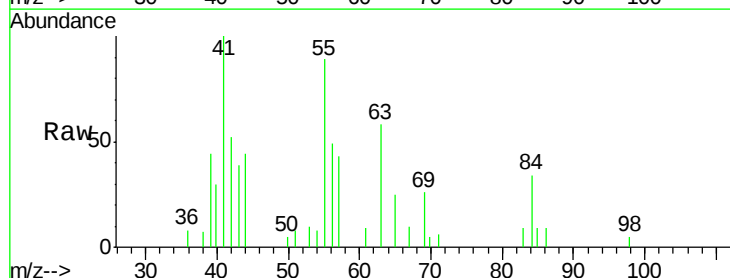
Tgt Ion: 63 Resp: 3184

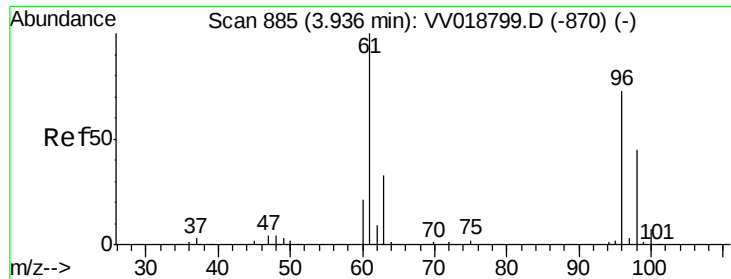
Ion Ratio Lower Upper

63 100

65 42.7 22.0 40.8#

83 16.3 9.2 17.0





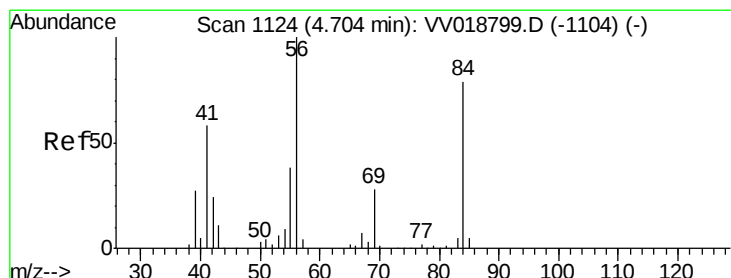
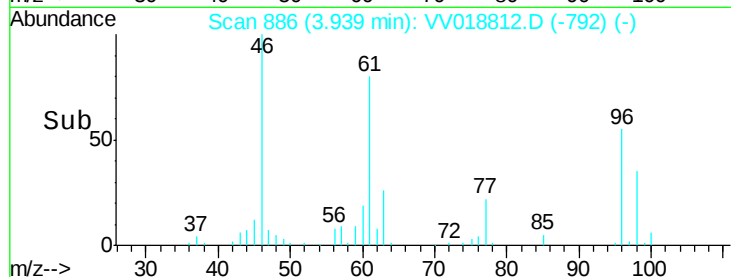
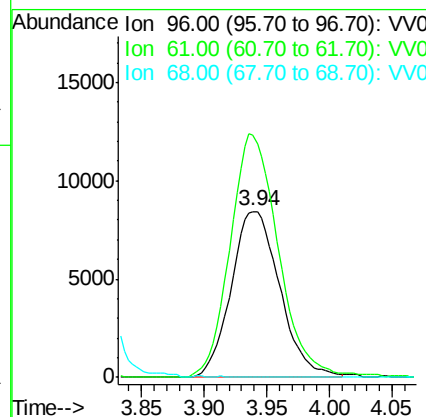
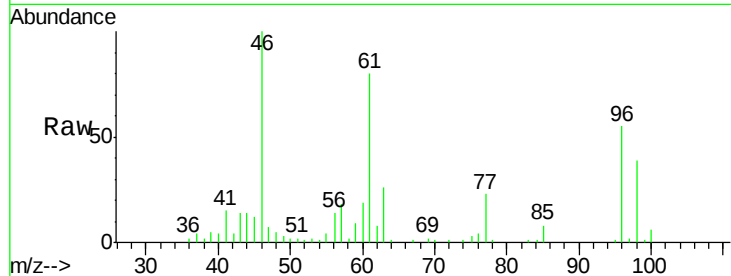
#20
cis-1,2-Dichloroethene
Concen: 9.427 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Instrument :
MSVOA_V
ClientSampled :
BG3P7

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		22765		
61	146.1	97.3	180.7		
68	0.0	0.0	0.0		

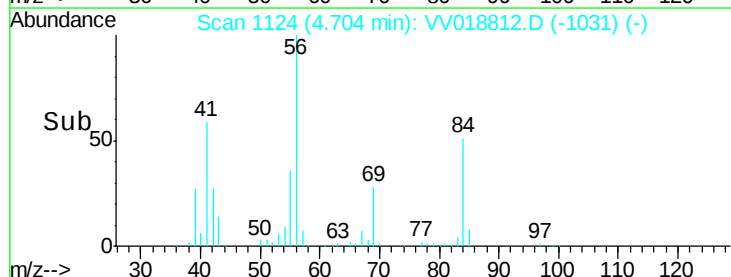
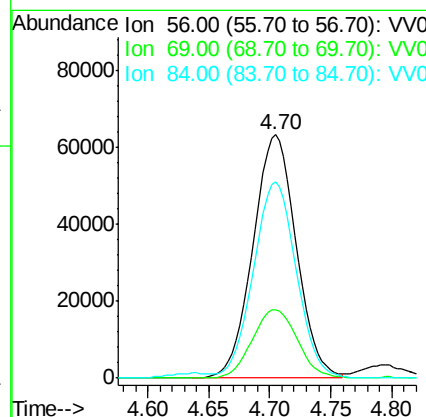
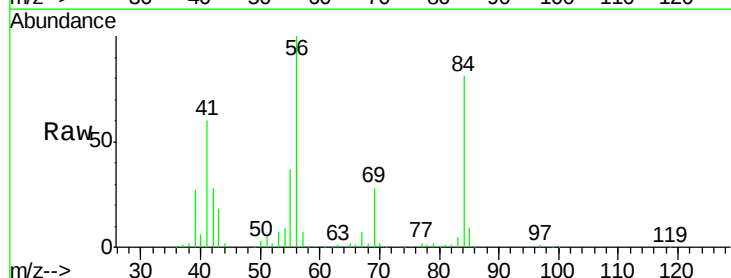
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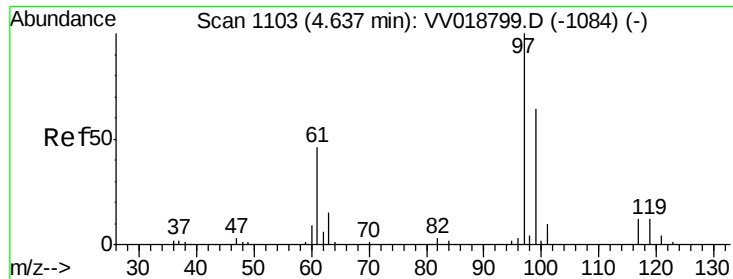
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#29
Cyclohexane
Concen: 43.929 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
56	100		155559		
69	29.4	23.1	34.7		
84	79.7	65.2	97.8		





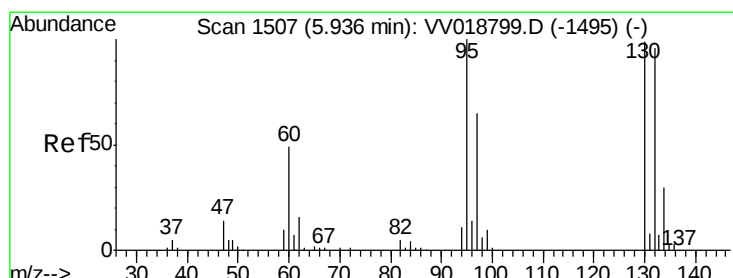
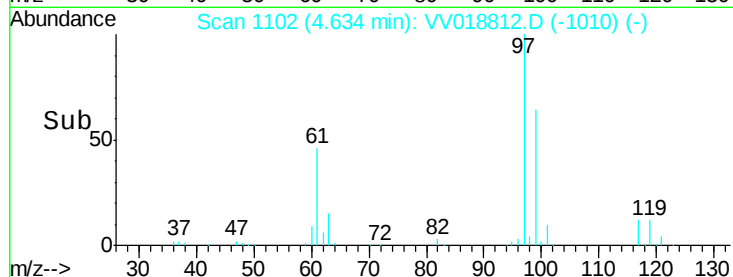
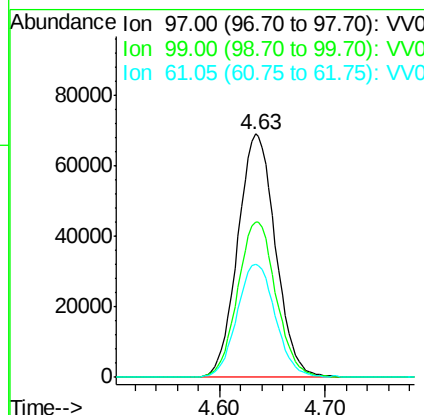
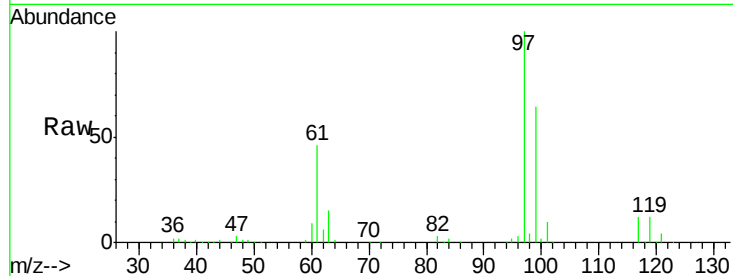
#30
1,1,1-Trichloroethane
Concen: 44.082 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Instrument :
MSVOA_V
ClientSampleId :
BG3P7

Tot Ion	Ratio	Resp	Lower	Upper
97	100	171796		
99	64.8	51.0	76.4	
61	47.1	37.0	55.4	

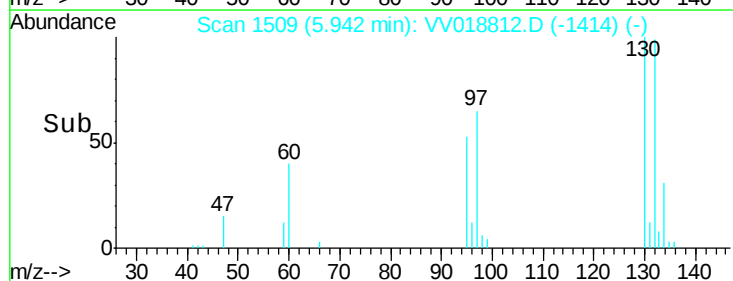
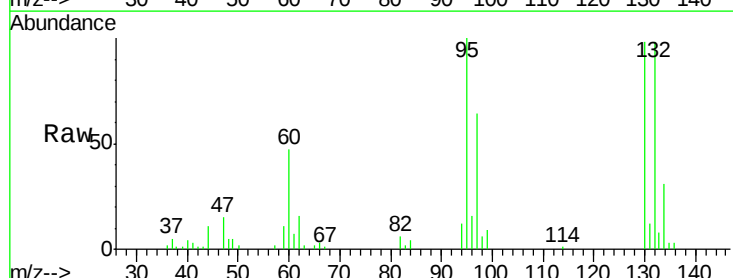
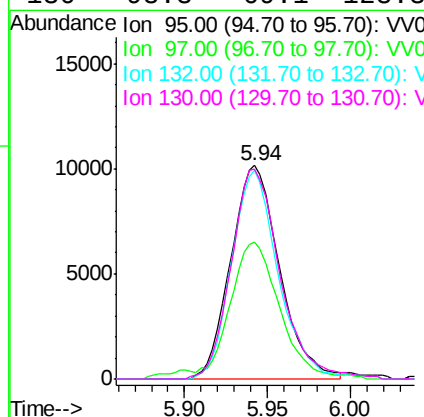
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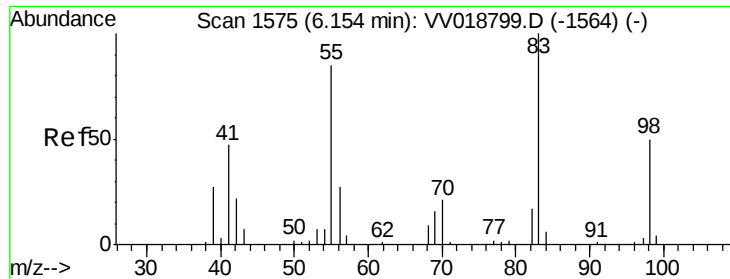
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#34
Trichloroethene
Concen: 7.788 ug/L
RT: 5.94 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	20795		
97	64.1	45.1	83.9	
132	97.5	66.2	123.0	
130	98.3	69.1	128.3	





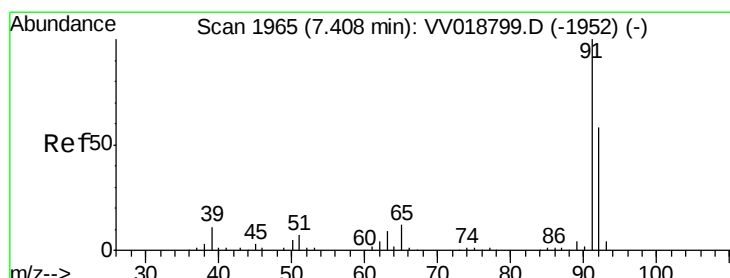
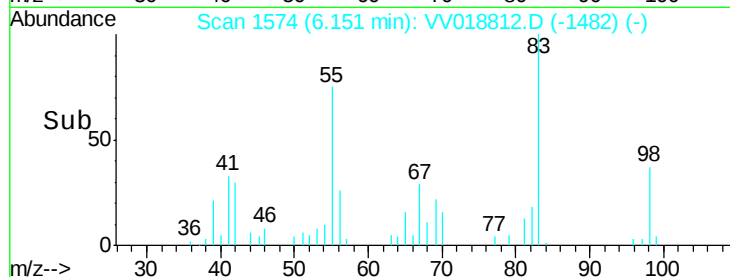
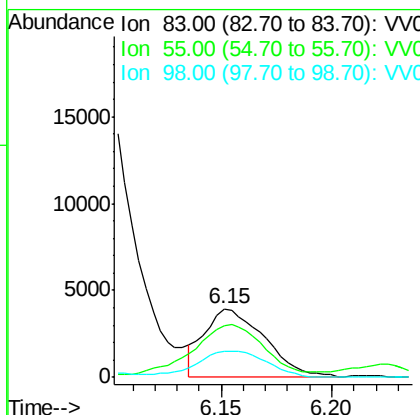
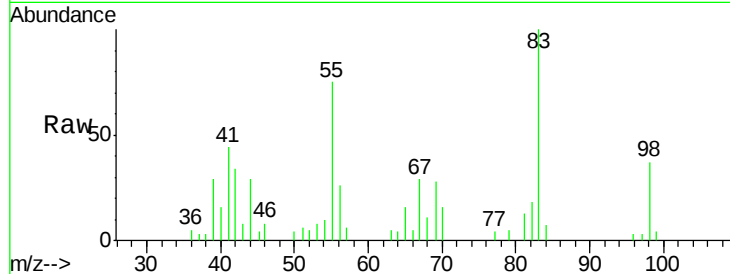
#35
Methvlcvclohexane
Concen: 2.293 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Instrument :
MSVOA_V
ClientSampled :
BG3P7

Tot Ion	83	Resp	7491
Ion Ratio	100	Lower	Upper
83	100		
55	93.7	67.0	100.4
98	44.7	38.8	58.2

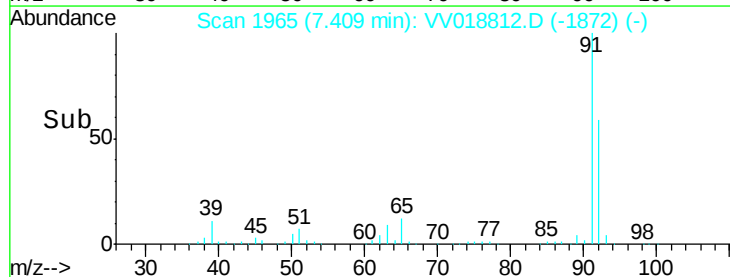
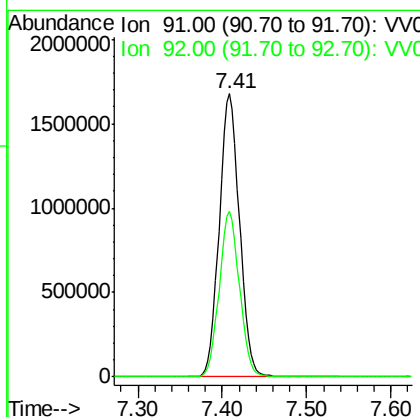
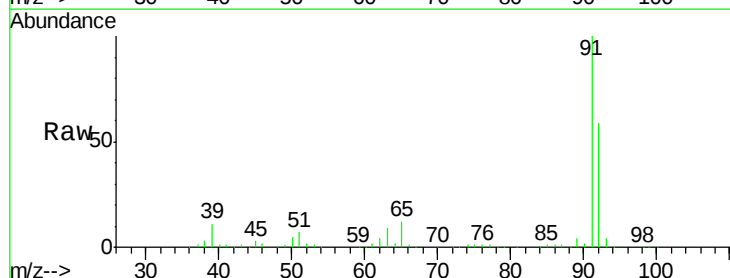
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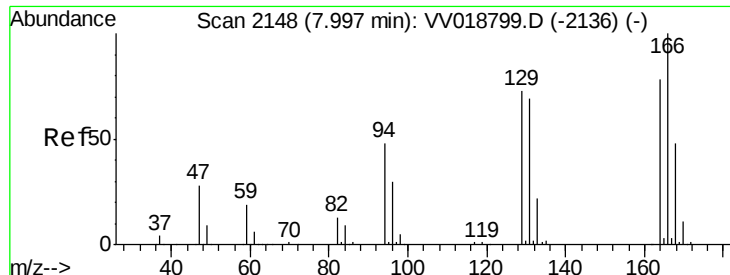
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#42
Toluene
Concen: 293.192 ug/L
RT: 7.41 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VV018812.D
Acq: 09 Oct 2020 12:28

Tgt Ion	91	Resp	2793729
Ion Ratio	100	Lower	Upper
91	100		
92	58.6	39.8	74.0





#46

Tetrachloroethene

Concen: 5.394 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Instrument :

MSVOA_V

ClientSampleId :

BG3P7

Tot Ion:164 Resp: 10554

Ion Ratio Lower Upper

164 100

129 89.2 64.6 120.0

131 83.3 63.6 118.0

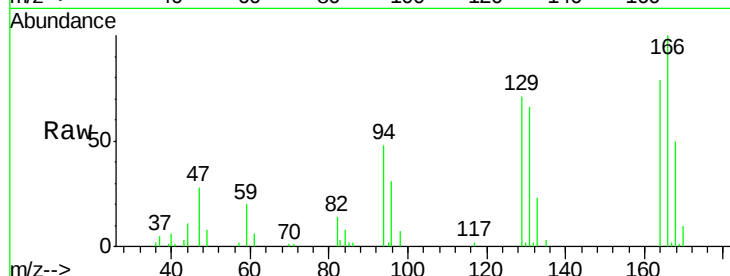
166 126.2 88.3 164.1

Manual Integrations

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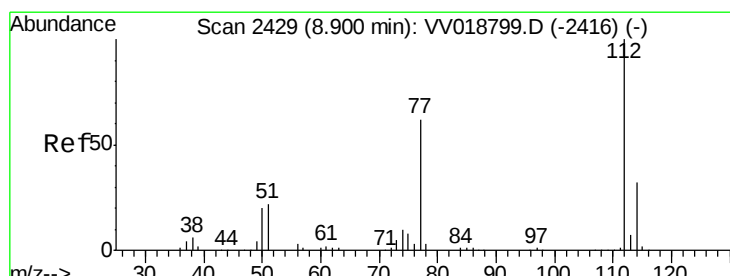
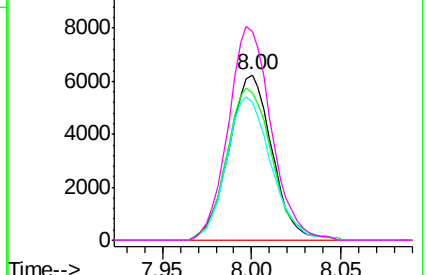
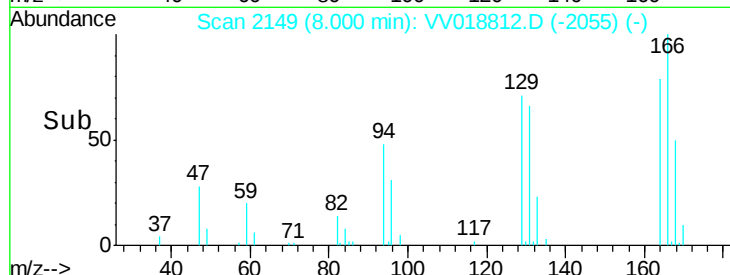
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->



#51

Chlorobenzene

Concen: 0.903 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

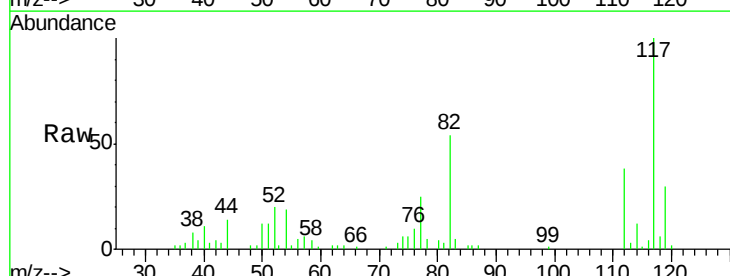
Tgt Ion:112 Resp: 5708

Ion Ratio Lower Upper

112 100

114 31.3 22.0 41.0

77 65.0 49.8 74.6

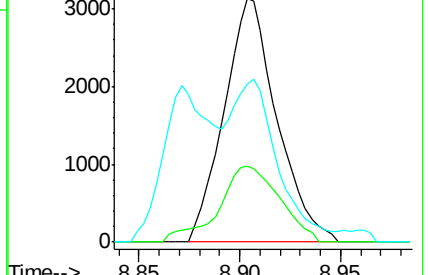
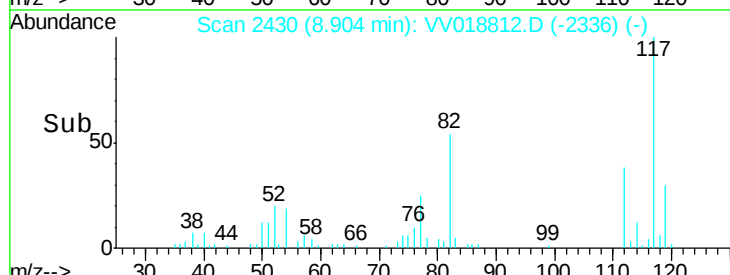


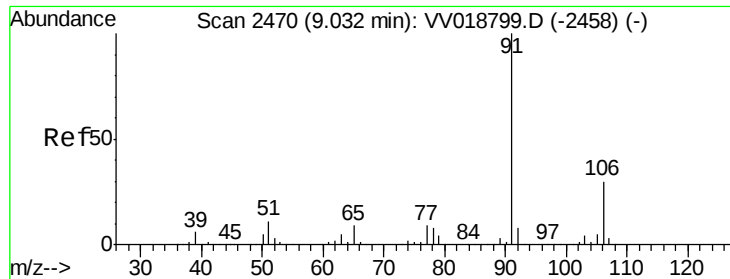
Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0

Time-->





#52

Ethylbenzene

Concen: 49.698 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Instrument :

MSVOA_V

ClientSampled :

BG3P7

Tot Ion: 91 Resp: 537761

Ion Ratio Lower Upper

91 100

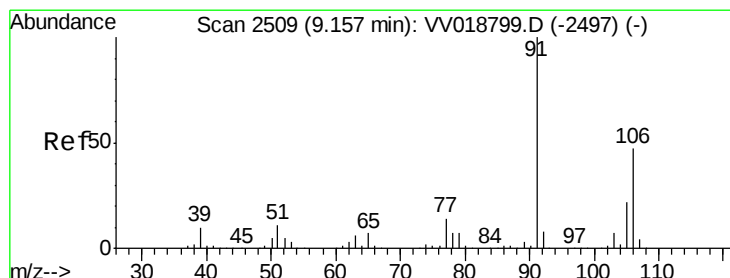
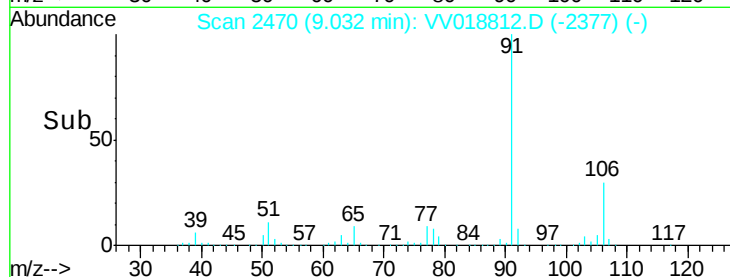
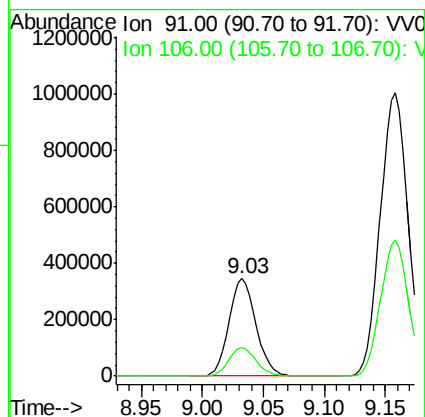
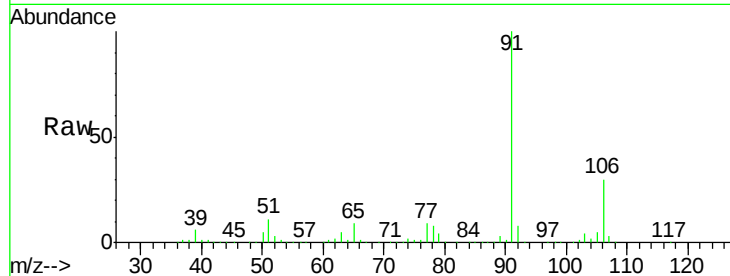
106 29.9 20.9 38.9

Manual Integrations

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#53

m,p-Xylene

Concen: 192.449 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018812.D

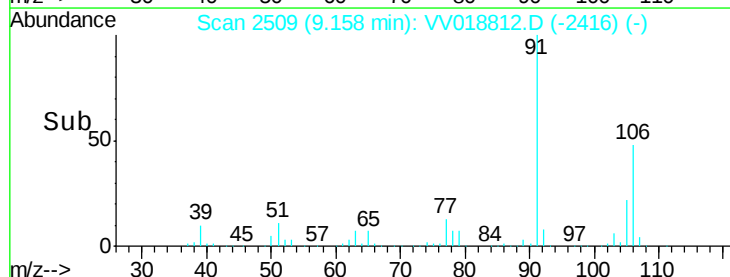
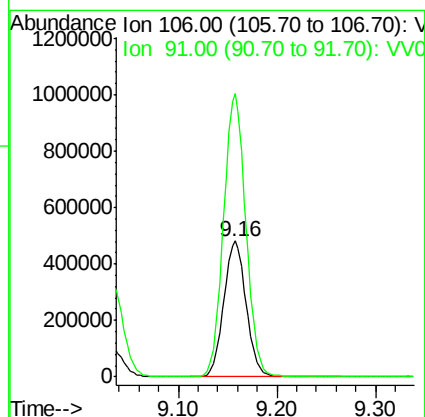
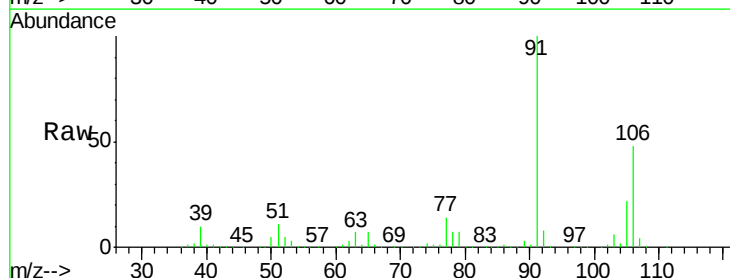
Acq: 09 Oct 2020 12:28

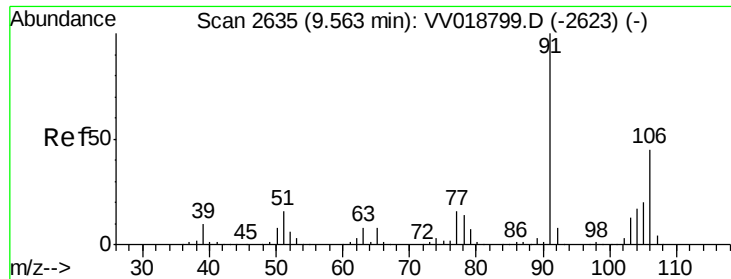
Tgt Ion: 106 Resp: 764396

Ion Ratio Lower Upper

106 100

91 208.6 147.1 273.1





#54

o-xylene

Concen: 90.230 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Instrument :

MSVOA_V

ClientSampleId :

BG3P7

Tot Ion:106 Resp: 340385

Ion Ratio Lower Upper

106 100

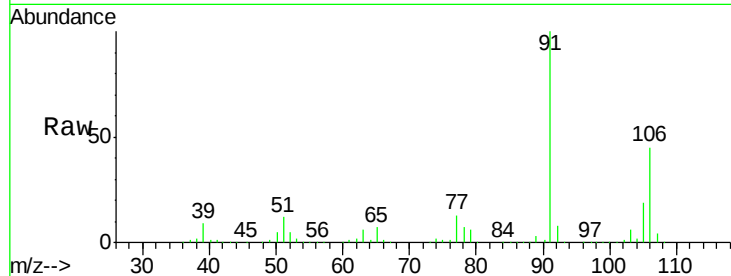
91 223.1 156.8 291.2

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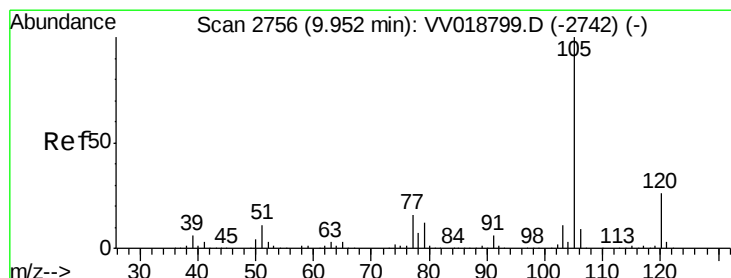
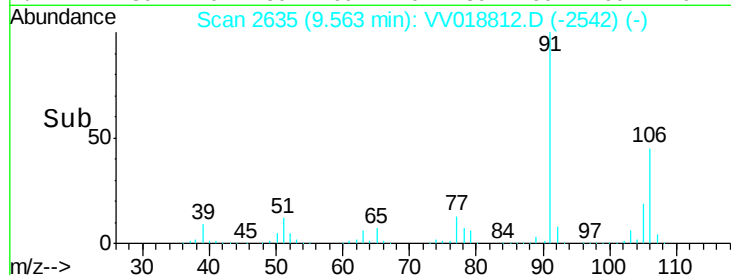
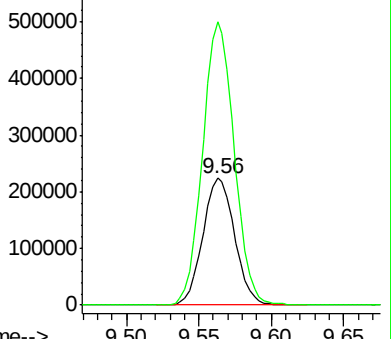
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Isopropylbenzene

Concen: 95.162 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

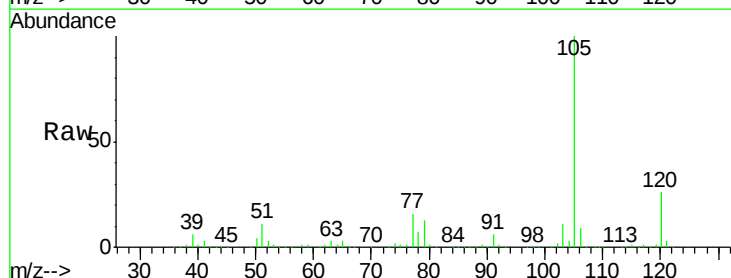
Tgt Ion:105 Resp: 993303

Ion Ratio Lower Upper

105 100

120 25.8 20.4 30.6

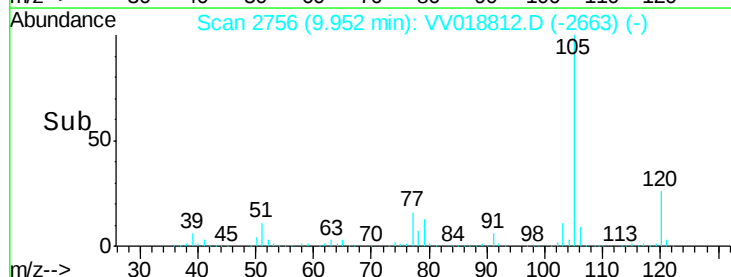
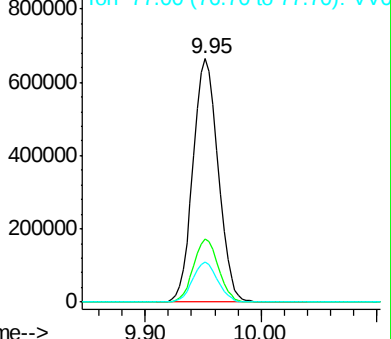
77 16.3 13.0 19.6

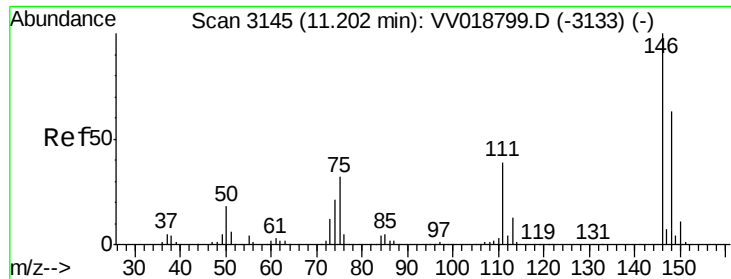


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





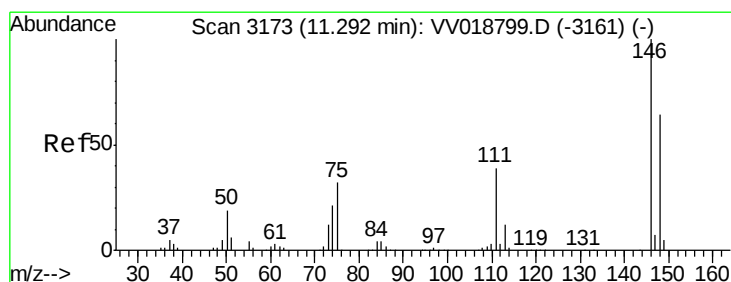
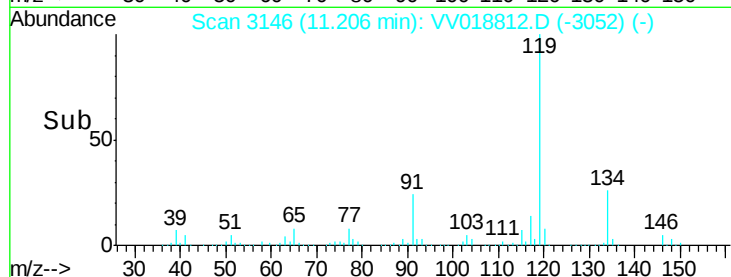
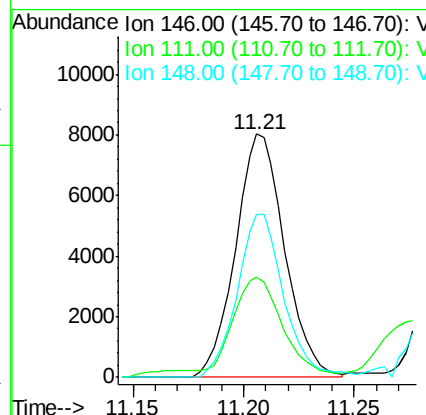
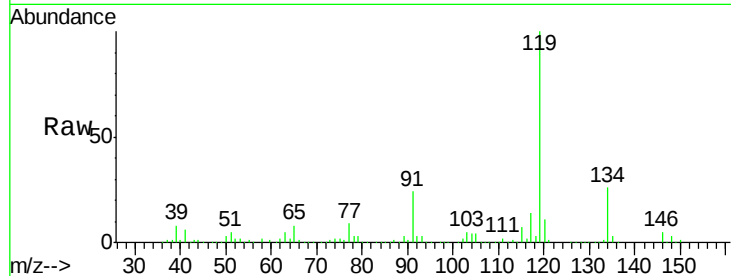
#62
 1,3-Dichlorobenzene
 Concen: 2.115 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV018812.D
 Acq: 09 Oct 2020 12:28

Instrument :
 MSVOA_V
 ClientSampled :
 BG3P7

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	27.8	51.6
148	67.2	45.4	84.4

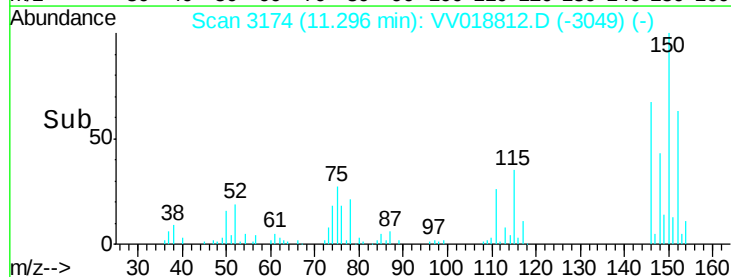
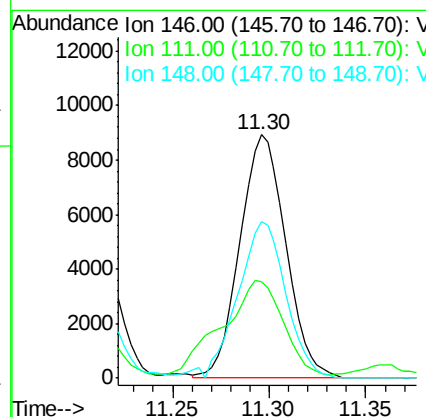
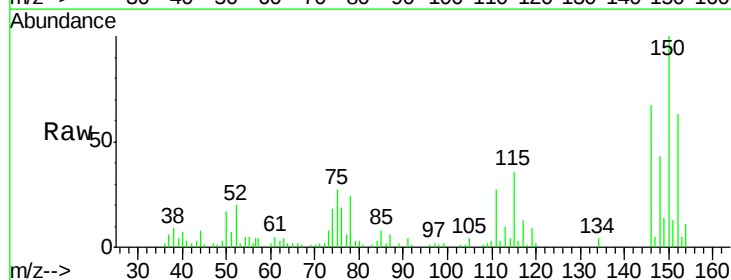
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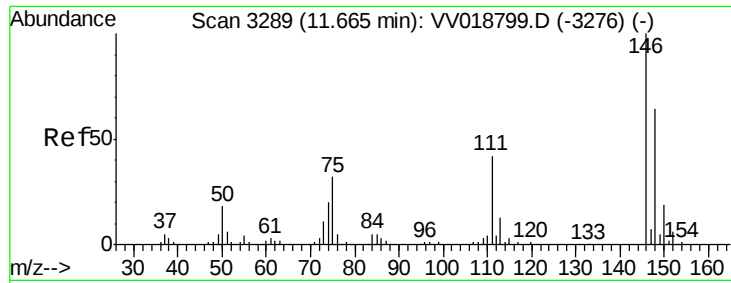
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#63
 1,4-Dichlorobenzene
 Concen: 2.413 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV018812.D
 Acq: 09 Oct 2020 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	27.1	50.3
148	64.2	45.4	84.4





#65

1,2-Dichlorobenzene

Concen: 6.447 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Instrument :

MSVOA_V

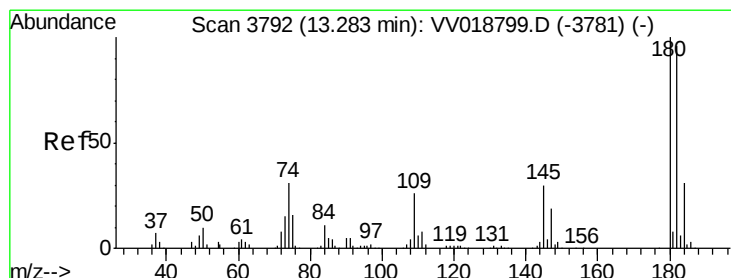
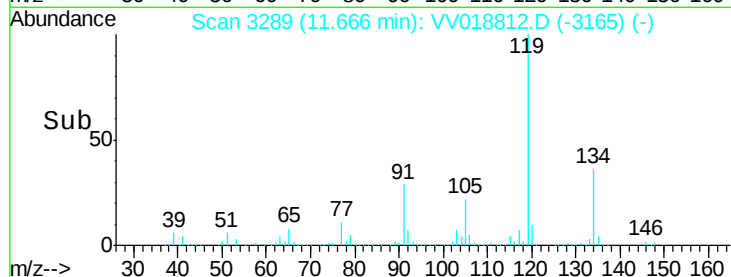
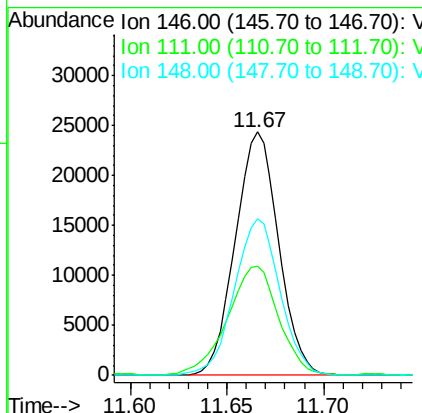
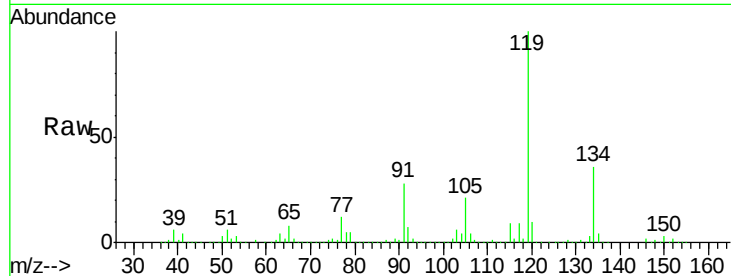
ClientSampleId :

BG3P7

Tot Ion:	146	Resp:	38004
Ion Ratio	Lower	Upper	
146	100		
111	44.8	33.8	50.6
148	64.2	50.3	75.5

Manual Integrations
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#68

1,2,4-trichlorobenzene

Concen: 168.482 ug/L

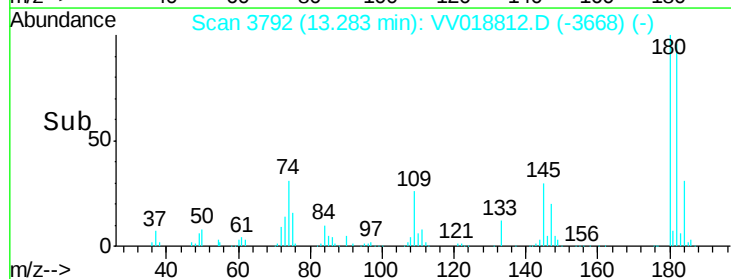
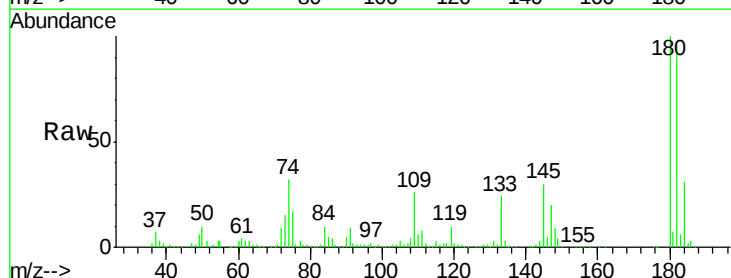
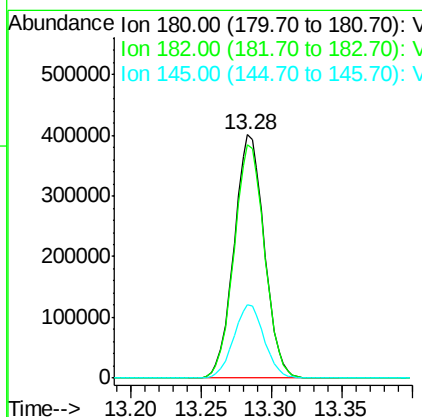
RT: 13.28 min Scan# 3792

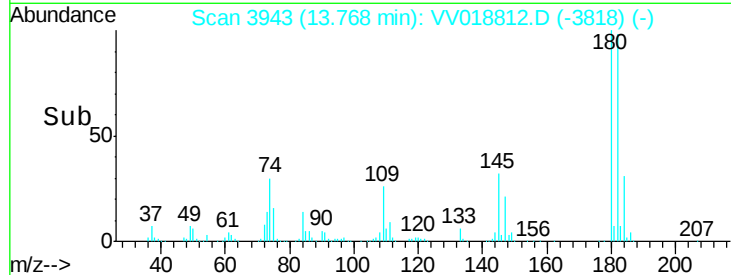
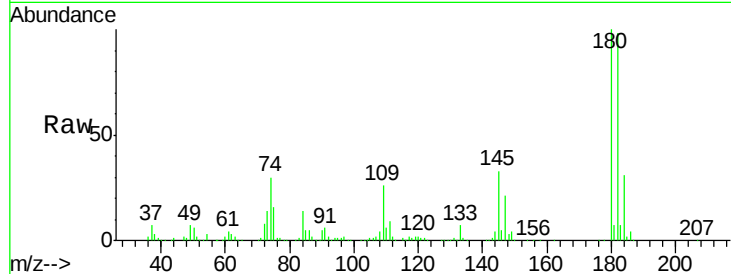
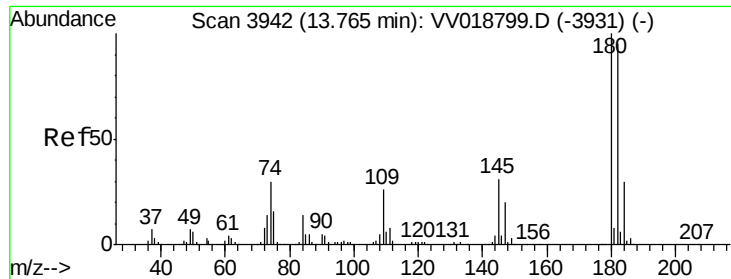
Delta R.T. 0.00 min

Lab File: VV018812.D

Acq: 09 Oct 2020 12:28

Tgt Ion:	180	Resp:	602542
Ion Ratio	Lower	Upper	
180	100		
182	96.6	76.7	115.1
145	30.0	24.0	36.0





#70
 1,2,3-Trichlorobenzene
 Concen: 49.114 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018812.D
 Acq: 09 Oct 2020 12:28

Tot Ion:	180	Resp:	174361
Ion Ratio	Lower	Upper	
180	100		
182	97.5	75.9	113.9
145	34.3	25.2	37.8

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7

Manual Integrations
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