

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\
 Data File : VL036779.D
 Acq On : 9 Apr 2021 18:09
 Operator : SY/AP
 Sample : M1987-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-AA(2021)

Manual Integrations
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MMDadoda
 4/12/2021 5:42:53 PM

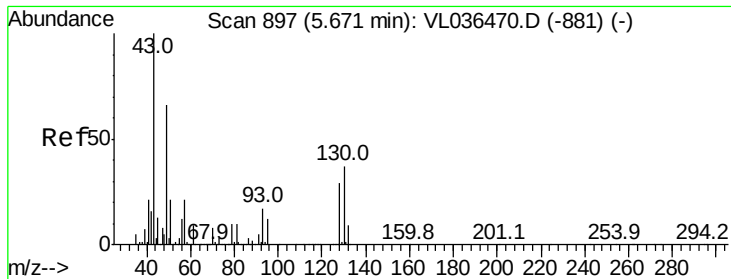
Quant Time: Apr 10 11:49:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1309922	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3081200	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2431533	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1694166	8.74	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	55040m	0.258	ppbv	
3) Chlorodifluoromethane	2.98	51	68031	0.278	ppbv	93
4) Chloromethane	3.13	50	50133	0.580	ppbv	92
9) Propene	3.01	41	298780m	3.829	ppbv	
10) Heptane	8.12	43	21958m	0.110	ppbv	
11) Trichlorofluoromethane	3.94	101	40372	0.185	ppbv	86
13) Ethanol	3.61	45	176939m	19.044	ppbv	
15) Acetone	3.85	43	217507m	1.687	ppbv	
19) Isopropyl Alcohol	3.98	45	80121m	1.130	ppbv	
20) Methylene Chloride	4.33	84	89755m	1.487	ppbv	
26) Hexane	5.68	57	149690	1.052	ppbv #	50
30) Cyclohexane	7.15	84	33253m	0.288	ppbv	
34) 2-Butanone	5.25	43	53040m	0.353	ppbv	
35) Carbon Tetrachloride	7.00	117	14176m	0.060	ppbv	
36) Benzene	6.88	78	57756m	0.203	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	142524	0.285	ppbv #	80
53) Toluene	9.80	91	239090	0.790	ppbv	99
59) m/p-Xylene	12.96	91	65709m	0.213	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

GOI-AA(2021)

Tot Ion: 49 Resp: 1309922

Ion Ratio Lower Upper

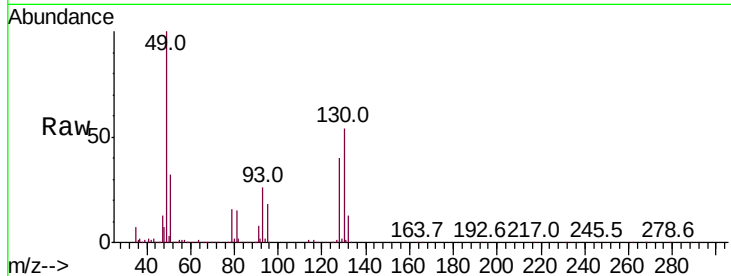
49 100

128 44.9 23.5 70.6

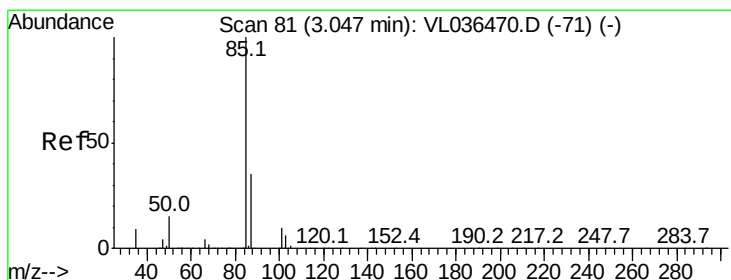
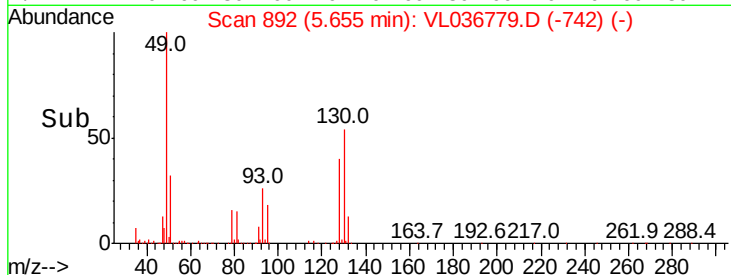
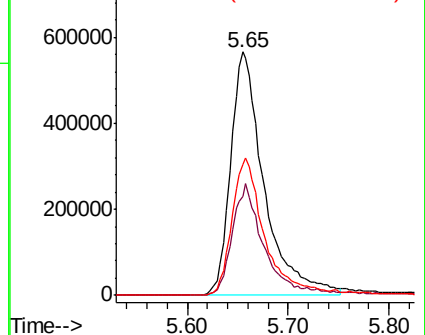
130 57.1 29.1 87.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.258 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036779.D

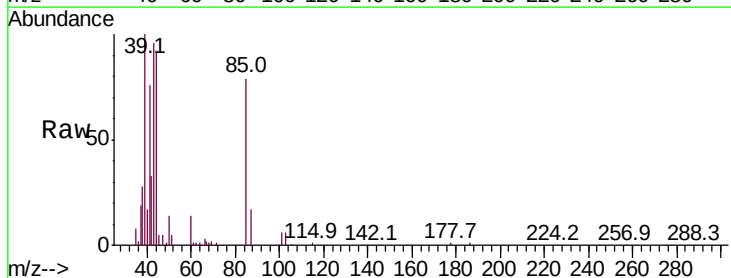
Acq: 9 Apr 2021 18:09

Tgt Ion: 85 Resp: 55040

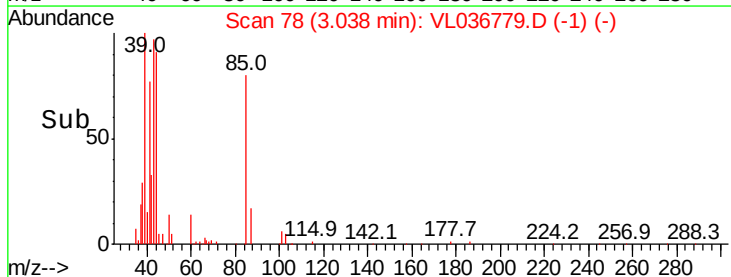
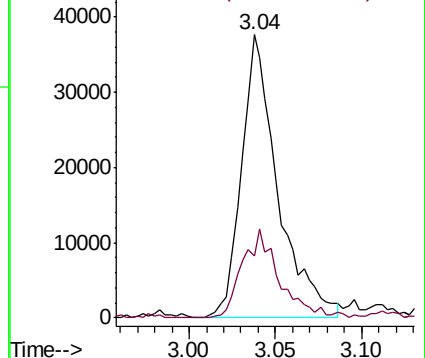
Ion Ratio Lower Upper

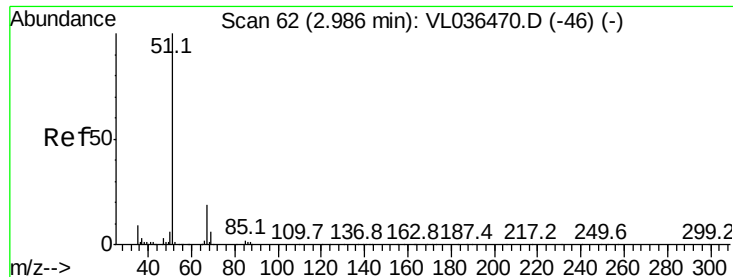
85 100

87 21.8 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





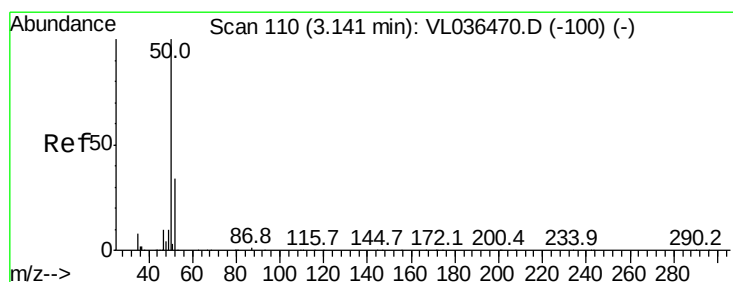
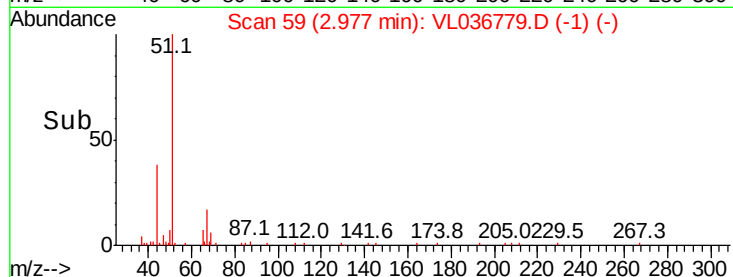
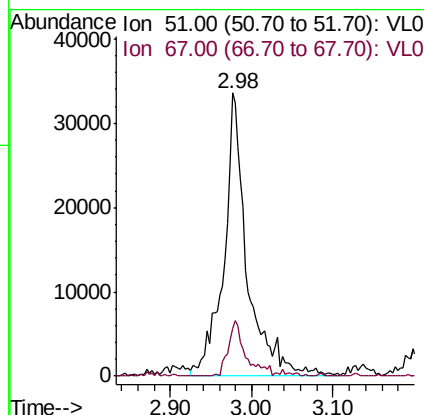
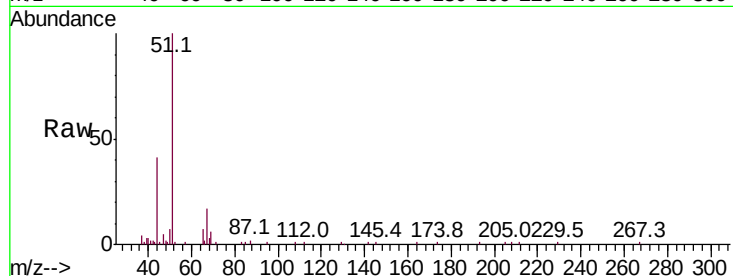
#3
Chlorodifluoromethane
Concen: 0.278 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.01 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion	Ratio	Lower	Upper
51	100		
67	15.4	14.7	22.1

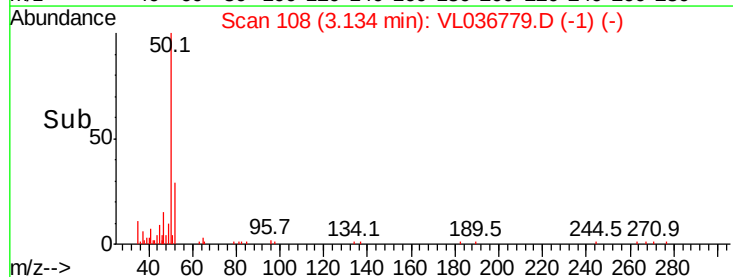
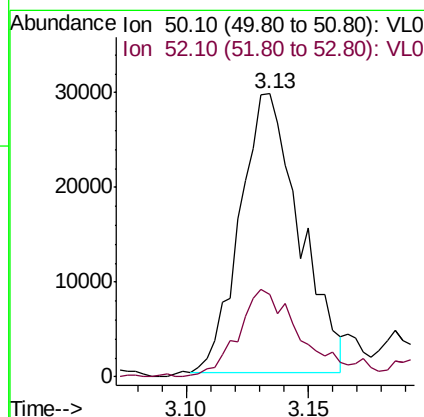
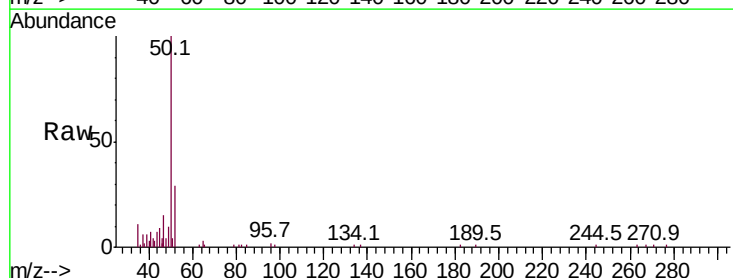
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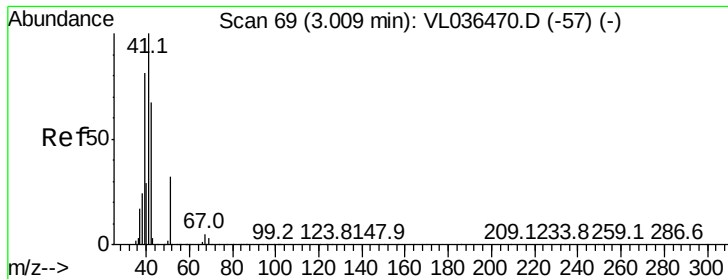
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#4
Chloromethane
Concen: 0.580 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.1	27.0	40.6





#9

Propene

Concen: 3.829 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

GOI-AA(2021)

Tot Ion: 41 Resp: 298780

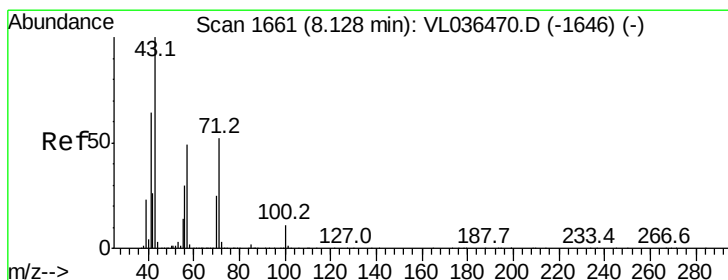
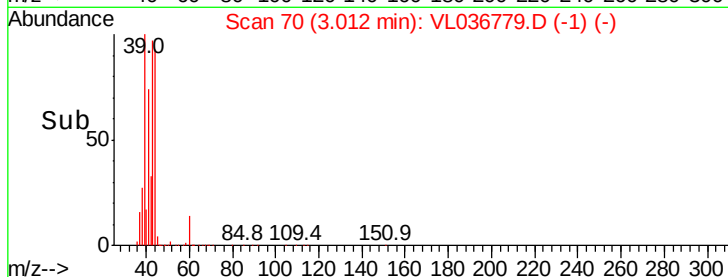
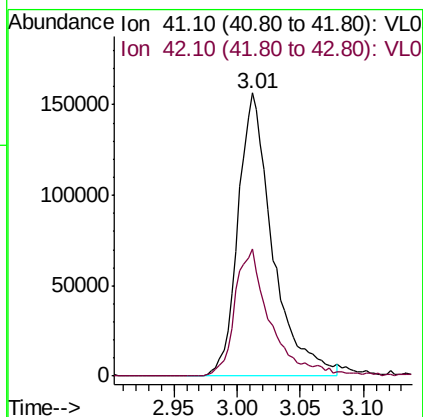
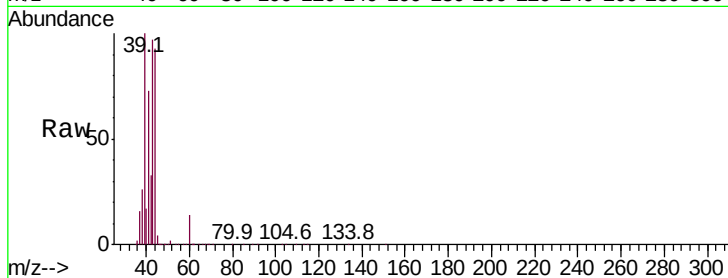
Ion Ratio Lower Upper

41 100

42 41.0 57.0 85.4#

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#10

Heptane

Concen: 0.110 ppbv m

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036779.D

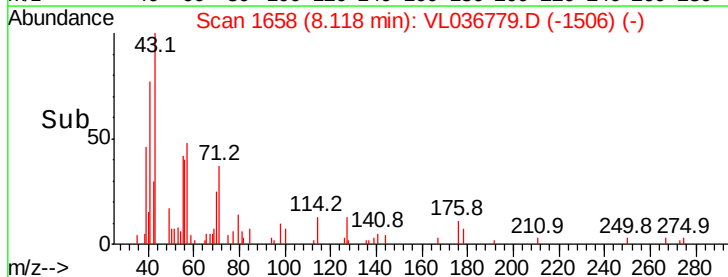
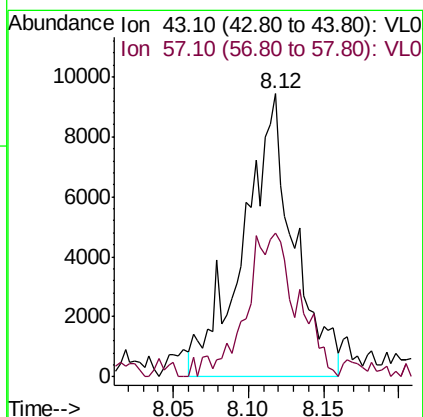
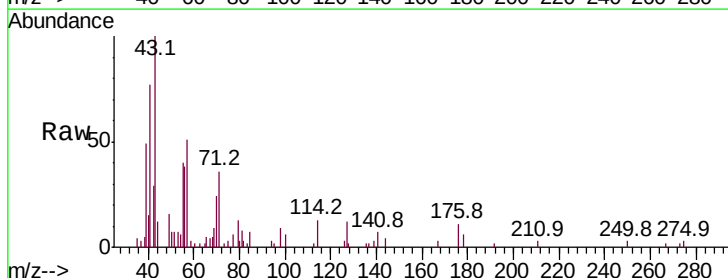
Acq: 9 Apr 2021 18:09

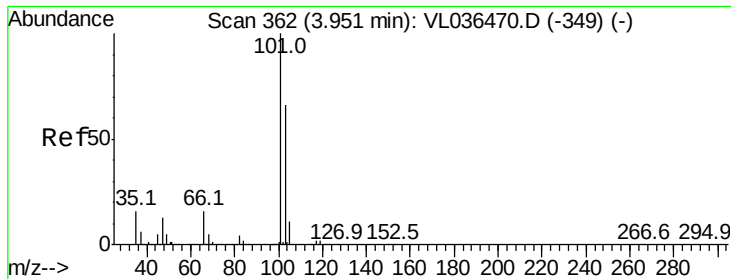
Tgt Ion: 43 Resp: 21958

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





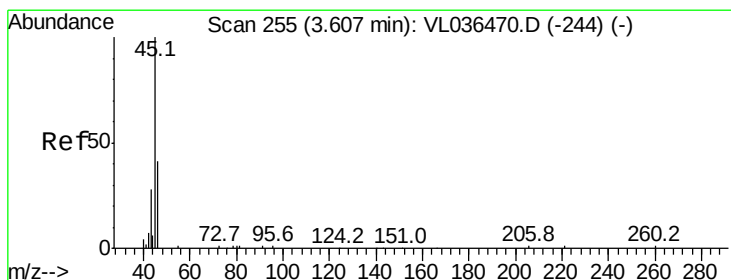
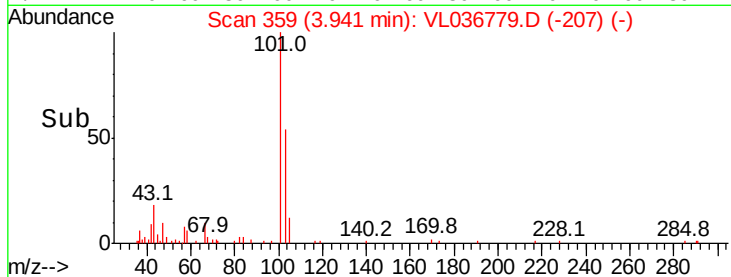
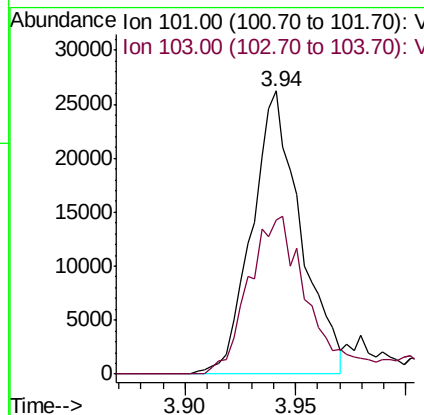
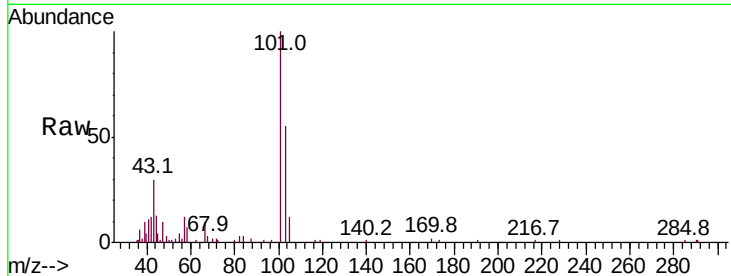
#11
Trichlorofluoromethane
Concen: 0.185 ppbv
RT: 3.94 min Scan# 359
Delta R.T. -0.01 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion:101 Resp: 40372
Ion Ratio Lower Upper
101 100
103 54.6 52.5 78.7

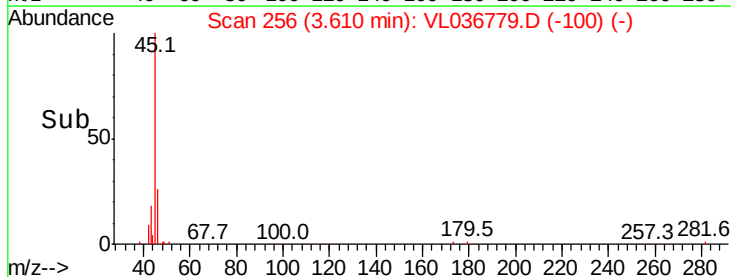
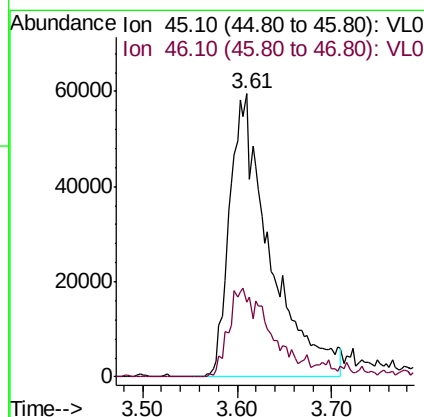
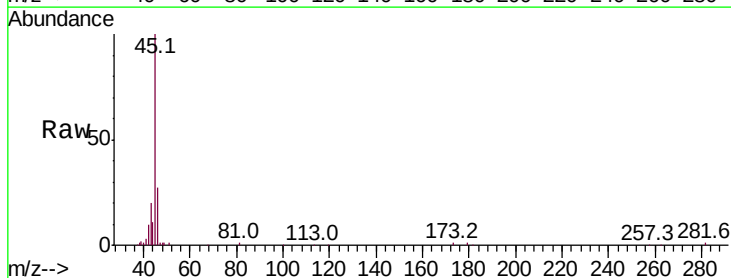
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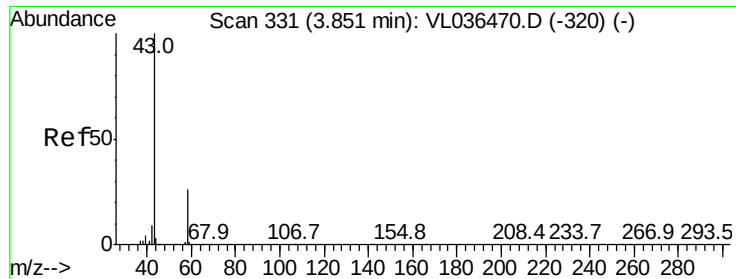
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#13
Ethanol
Concen: 19.044 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion: 45 Resp: 176939
Ion Ratio Lower Upper
45 100
46 32.4 16.6 66.2





#15

Acetone

Concen: 1.687 ppbv m

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

GOI-AA(2021)

Tot Ion: 43 Resp: 217507

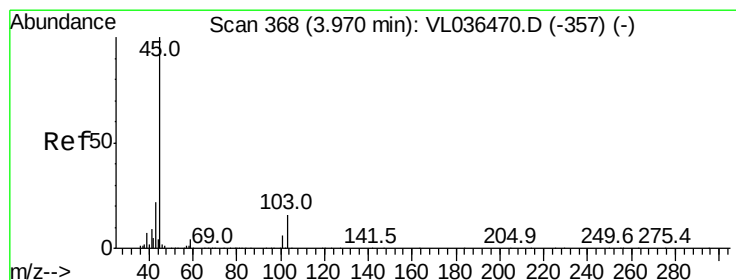
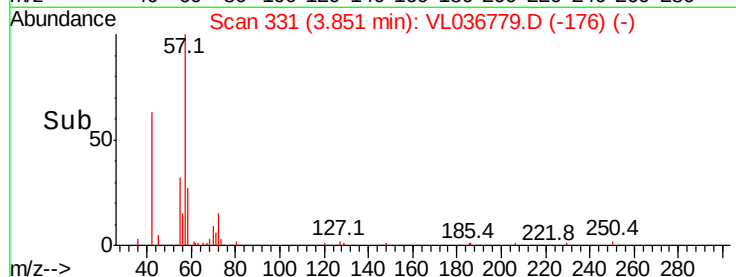
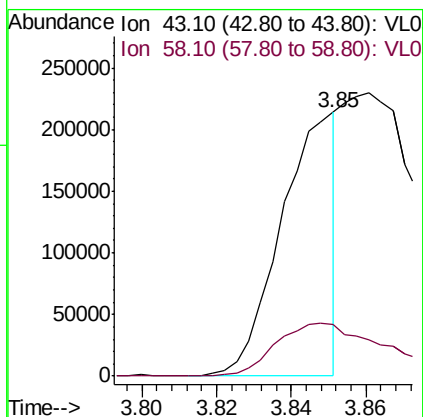
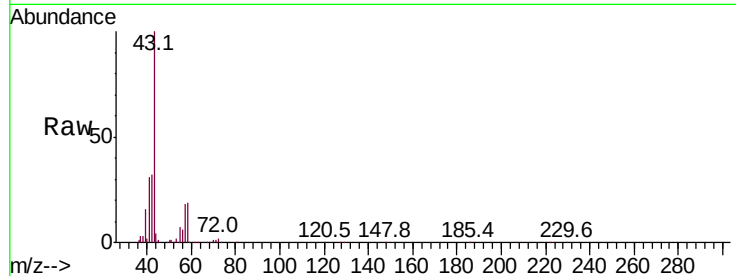
Ion Ratio Lower Upper

43 100

58 49.5 21.2 31.8#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 1.130 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL036779.D

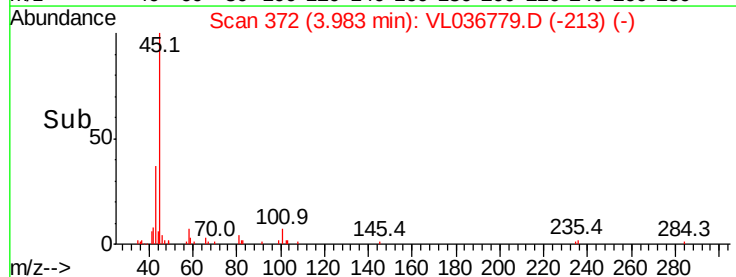
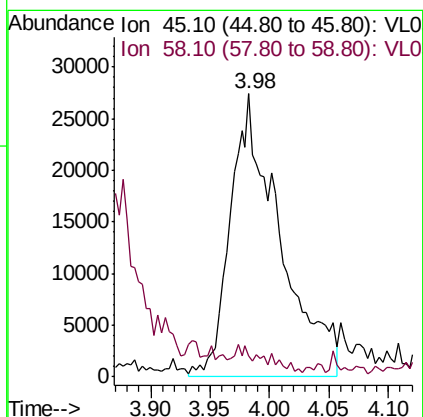
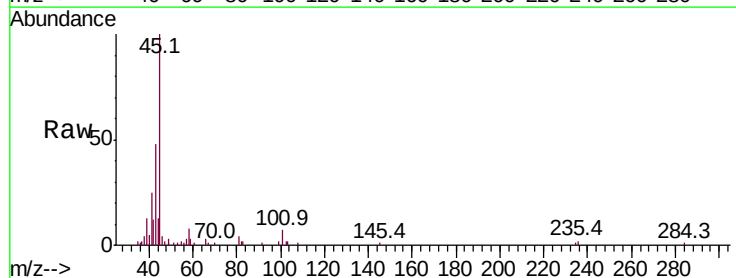
Acq: 9 Apr 2021 18:09

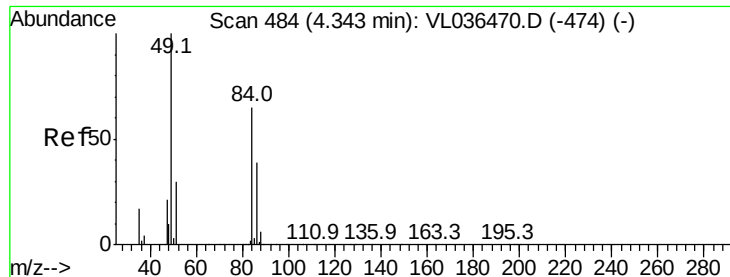
Tgt Ion: 45 Resp: 80121

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#





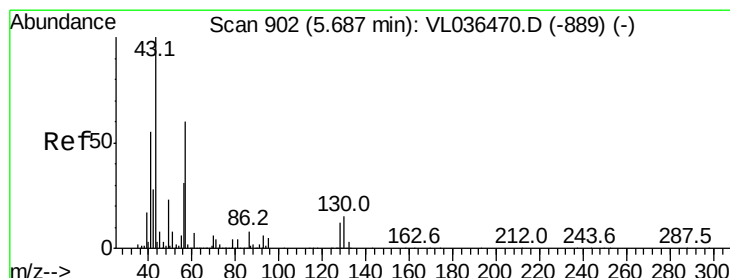
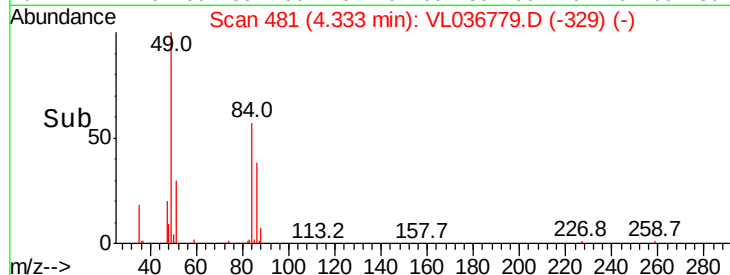
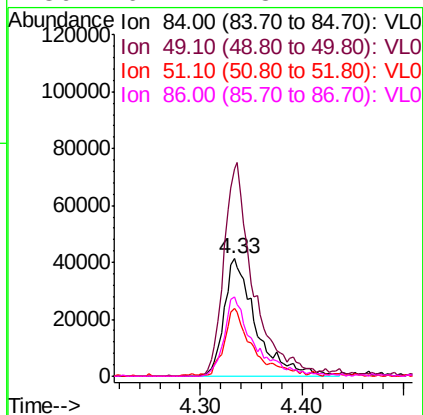
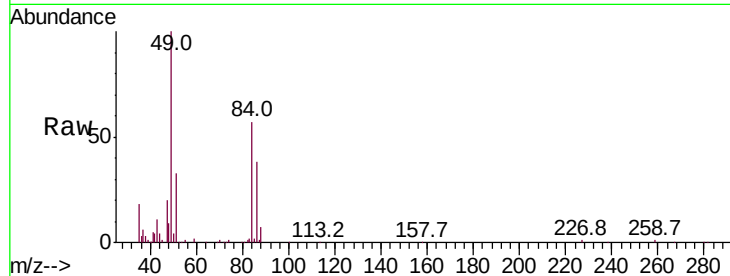
#20
Methvlene Chloride
Concen: 1.487 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion	84	Resp	89755
Ion	Ratio	Lower	Upper
84	100		
49	176.2	122.9	184.3
51	58.0	36.9	55.3#
86	67.2	48.2	72.4

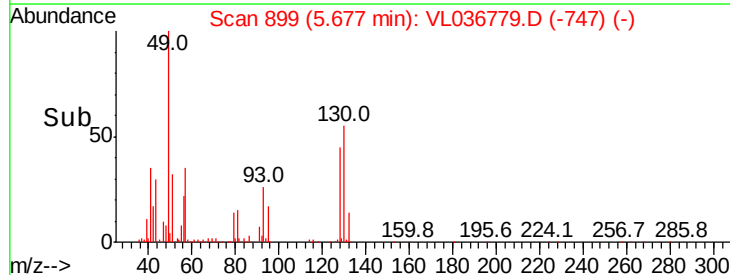
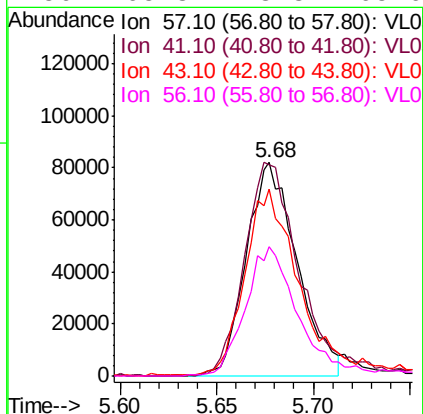
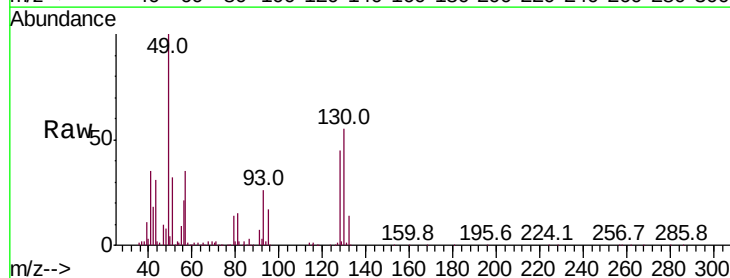
Manual Integrations
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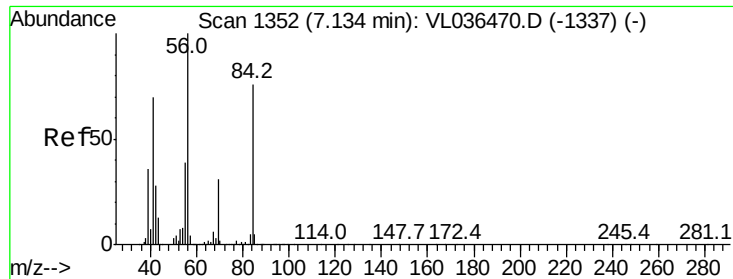
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#26
Hexane
Concen: 1.052 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion	57	Resp	149690
Ion	Ratio	Lower	Upper
57	100		
41	112.8	77.2	115.8
43	98.8	173.8	260.6#
56	65.8	43.8	65.6#





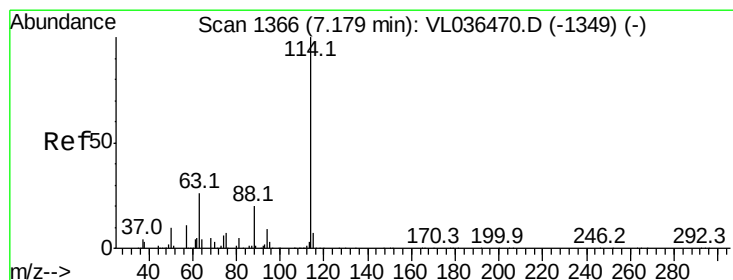
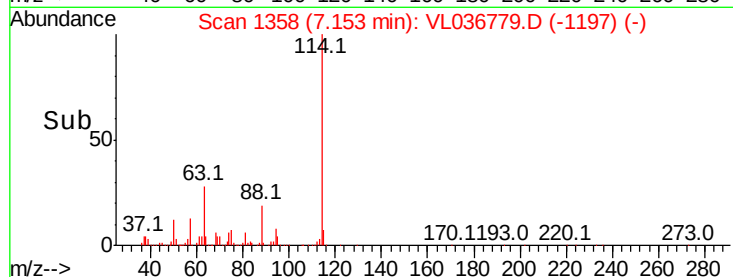
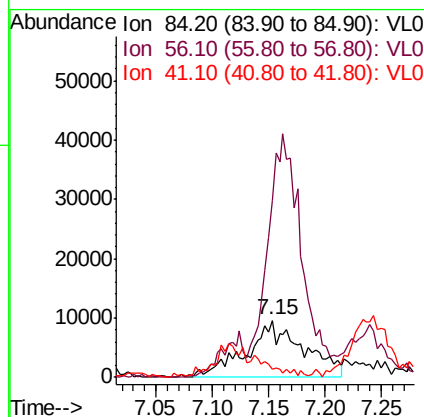
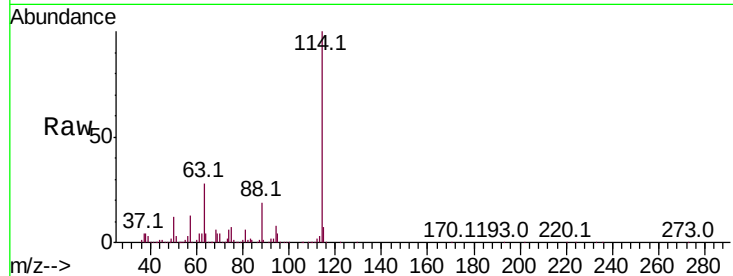
#30
Cyclohexane
Concen: 0.288 ppbv m
RT: 7.15 min Scan# 1358
Delta R.T. 0.02 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	45.2	75.3	112.9#

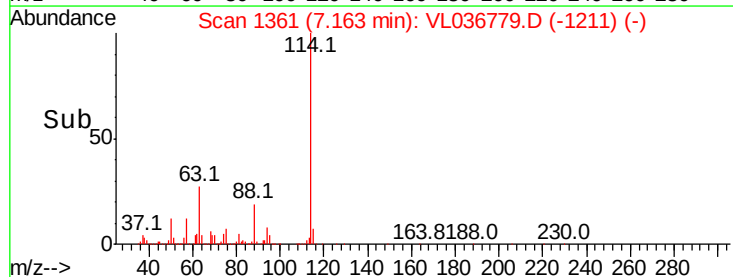
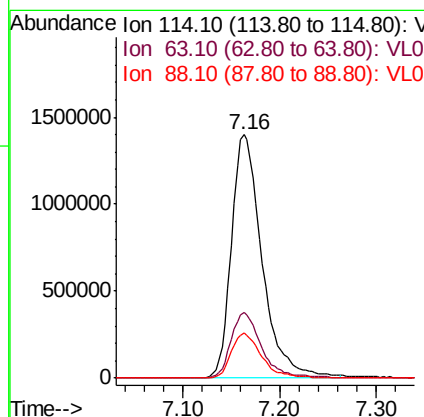
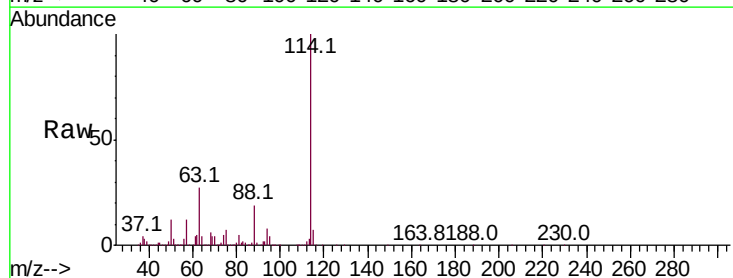
Manual Integrations
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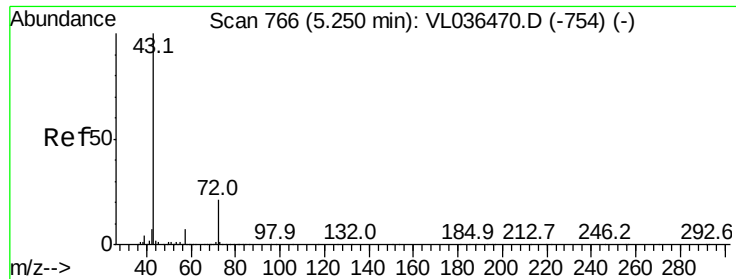
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.02 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.4	33.6
88	18.6	15.4	23.0





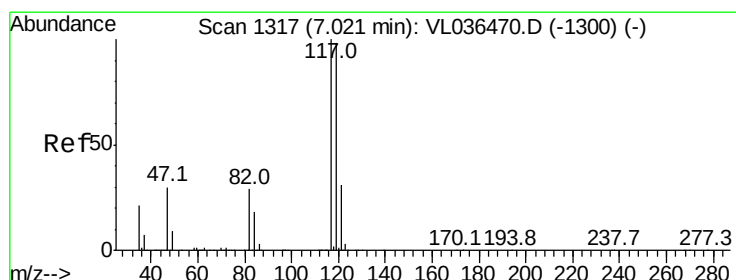
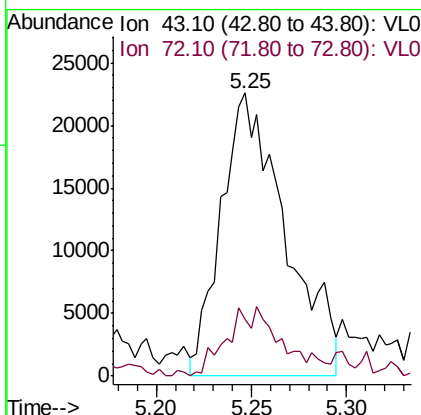
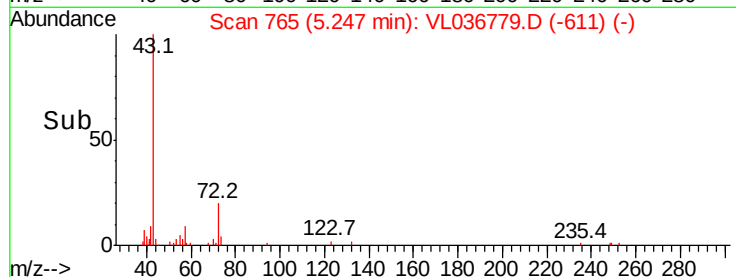
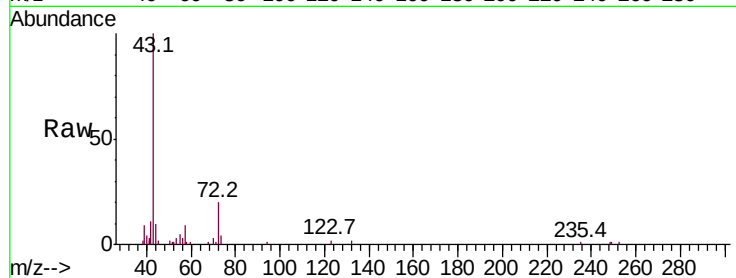
#34
2-Butanone
Concen: 0.353 ppbv m
RT: 5.25 min Scan# 765
Delta R.T. -0.00 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion: 43 Resp: 53040
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#

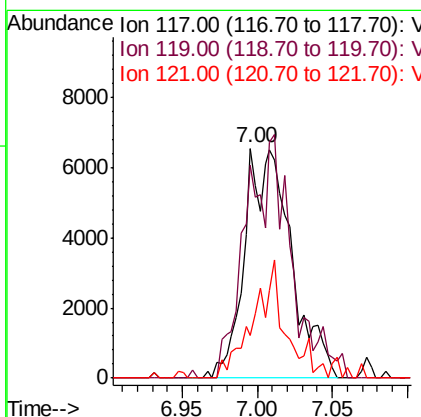
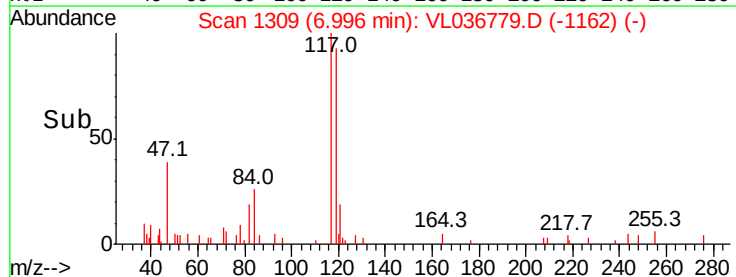
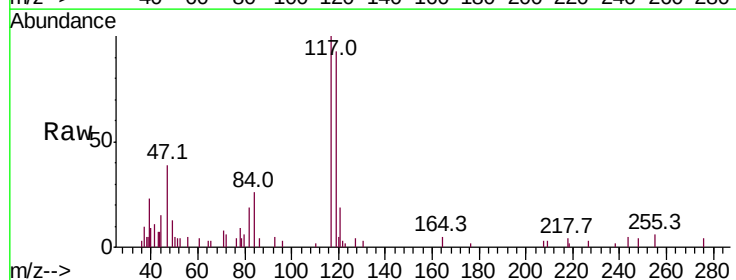
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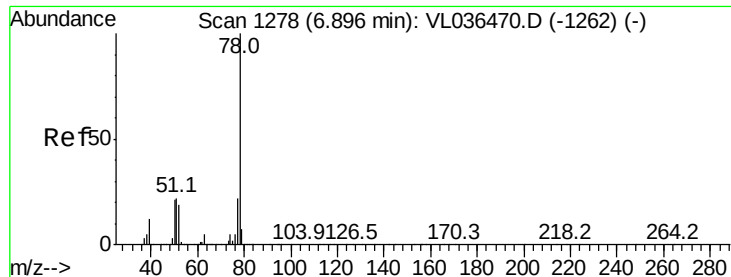
MMDadoda
4/12/2021 5:42:53 PM



#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion: 117 Resp: 14176
Ion Ratio Lower Upper
117 100
119 92.7 78.2 117.2
121 18.8 24.5 36.7#





#36

Benzene

Concen: 0.203 ppbv m

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Instrument :

MSVOA_L

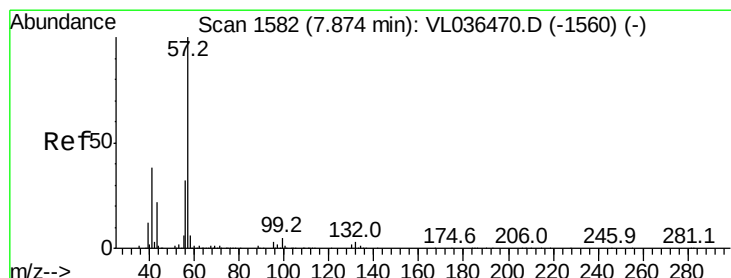
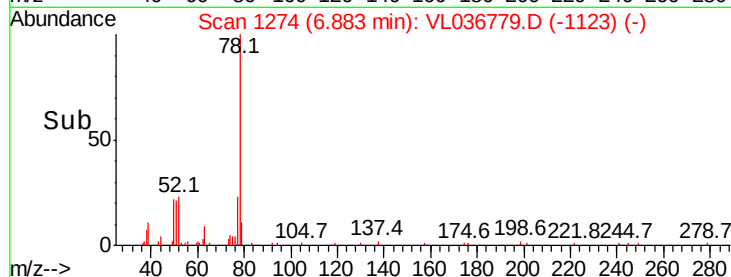
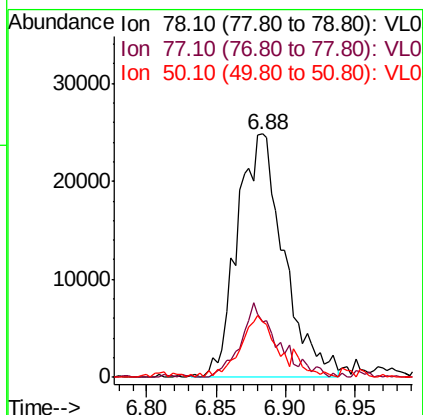
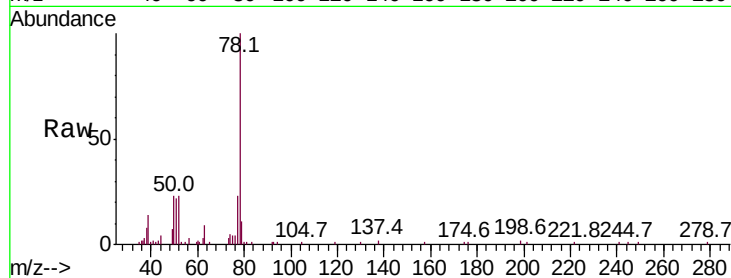
ClientSampleId :

GOI-AA(2021)

Tot Ion:	78	Resp:	57756
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.0	27.0
50	22.9	16.5	24.7

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#44

2,2,4-Trimethylpentane

Concen: 0.285 ppbv

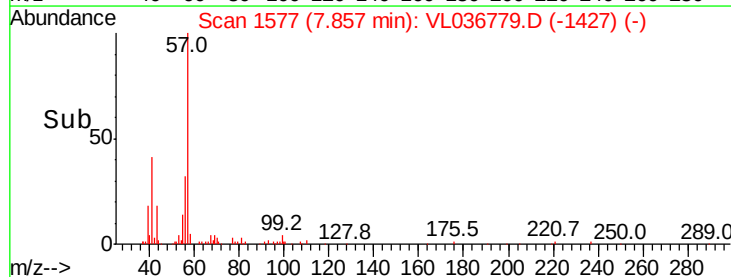
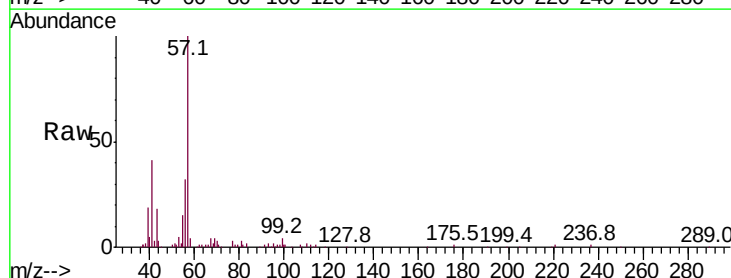
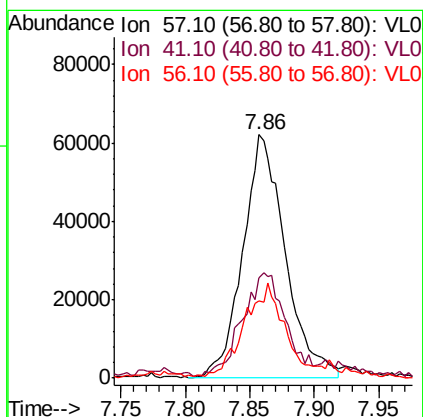
RT: 7.86 min Scan# 1577

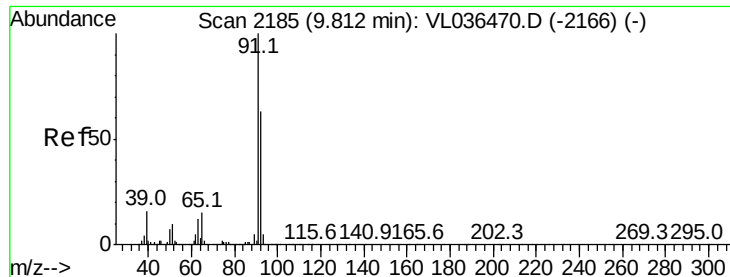
Delta R.T. -0.02 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Tgt Ion:	57	Resp:	142524
Ion	Ratio	Lower	Upper
57	100		
41	49.7	28.8	43.2#
56	42.2	26.1	39.1#





#53

Toluene

Concen: 0.790 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

Instrument :

MSVOA_L

ClientSampleId :

GOI-AA(2021)

Tot Ion: 91 Resp: 239090

Ion Ratio Lower Upper

91 100

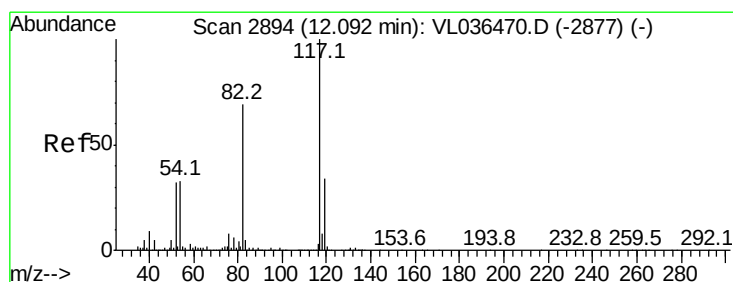
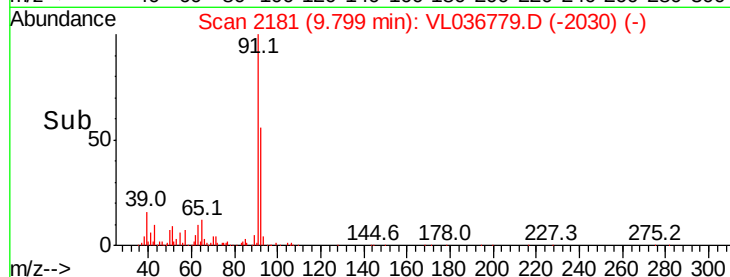
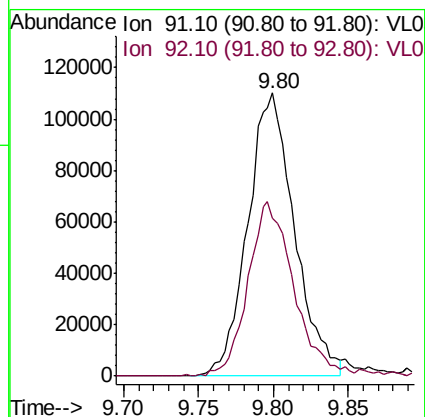
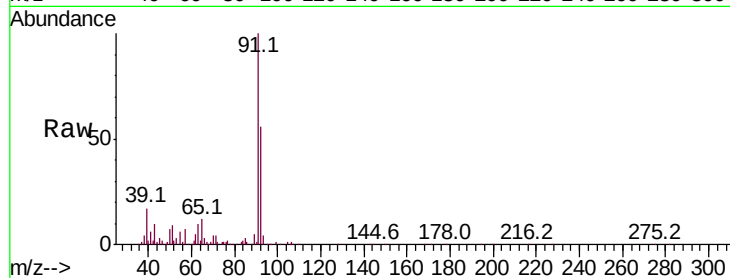
92 61.5 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL036779.D

Acq: 9 Apr 2021 18:09

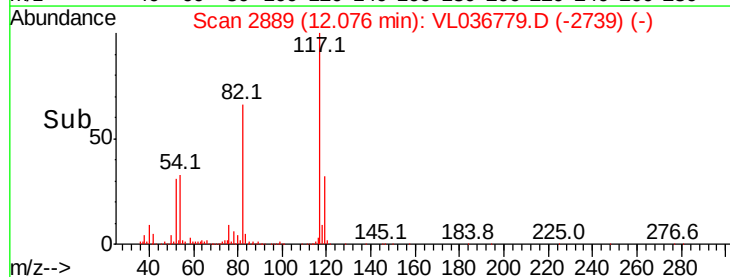
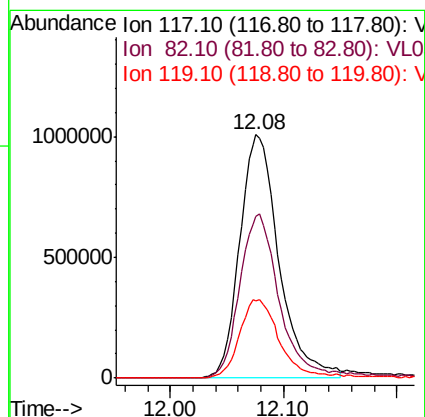
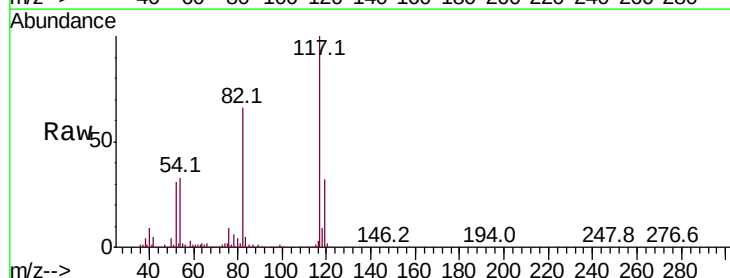
Tgt Ion: 117 Resp: 2431533

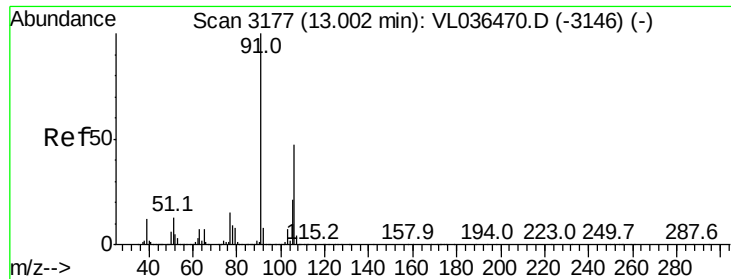
Ion Ratio Lower Upper

117 100

82 70.5 57.4 86.0

119 34.2 47.4 71.0#





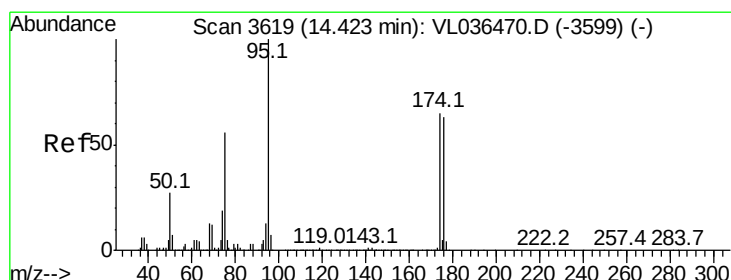
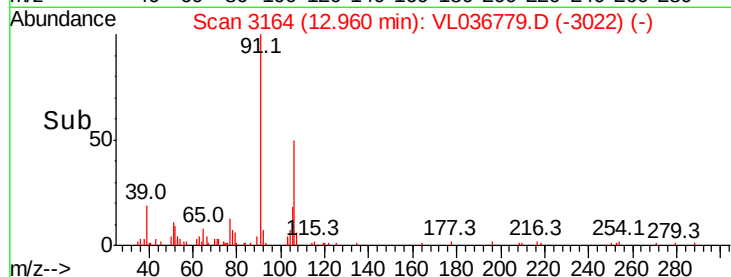
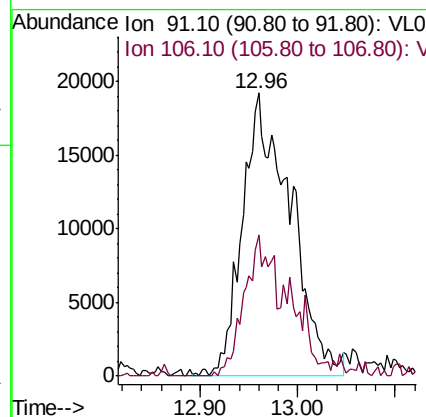
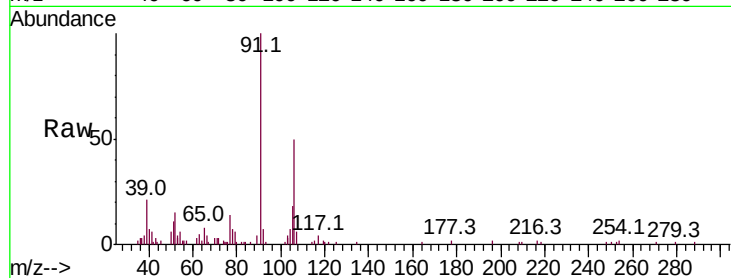
#59
m/p-Xylene
Concen: 0.213 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Instrument :
MSVOA_L
ClientSampleId :
GOI-AA(2021)

Tot Ion: 91 Resp: 65709
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 8.742 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.02 min
Lab File: VL036779.D
Acq: 9 Apr 2021 18:09

Tgt Ion: 95 Resp: 1694166
Ion Ratio Lower Upper
95 100
174 63.2 51.0 76.6
175 4.7 3.9 5.9

