

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036276.D
 Acq On : 28 Jan 2021 18:00
 Operator : SY/AP
 Sample : M1245-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Manual Integrations
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 2/1/2021 1:52:11 PM

Quant Time: Jan 29 03:00:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1693342	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3582222	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3241430	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2681224	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	32207	0.155	ppbv	# 91
9) Propene	3.01	41	25867m	0.261	ppbv	
10) Heptane	8.11	43	84608	0.344	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	17894m	0.128	ppbv	
13) Ethanol	3.65	45	9225050m	593.230	ppbv	
15) Acetone	3.84	43	11778850	56.797	ppbv	95
17) tert-Butyl alcohol	4.33	59	9753168	56.992	ppbv	99
20) Methylene Chloride	4.34	84	73150	1.105	ppbv	# 83
26) Hexane	5.67	57	193901	1.119	ppbv	83
30) Cyclohexane	7.12	84	28143m	0.212	ppbv	
36) Benzene	6.88	78	95918	0.292	ppbv	# 91
38) Trichloroethene	7.83	130	212238	1.746	ppbv	90
44) 2,2,4-Trimethylpentane	7.85	57	113731m	0.189	ppbv	
52) Tetrachloroethene	11.22	164	7190m	0.059	ppbv	
53) Toluene	9.80	91	1002402	2.730	ppbv	98
58) Ethyl Benzene	12.70	91	173316	0.360	ppbv	95
59) m/p-Xylene	12.96	91	582196m	1.409	ppbv	
60) o-Xylene	13.68	91	182872m	0.459	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	77935m	0.177	ppbv	

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

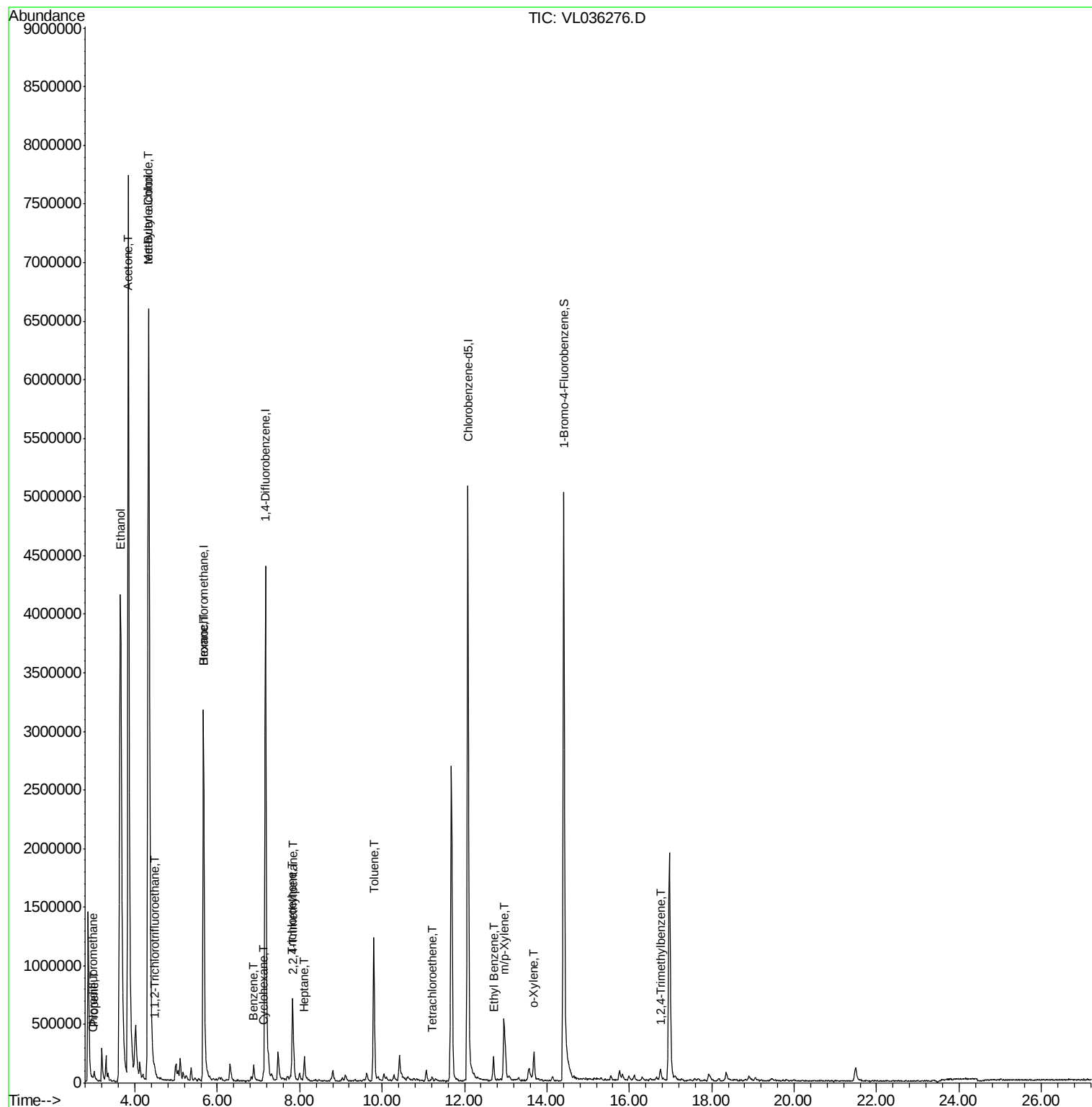
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
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ALS Vial : 1 Sample Multiplier: 1

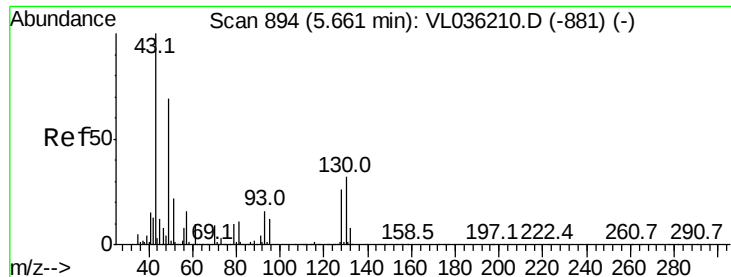
Instrument :
MSVOA_L
ClientSampleId :
SS-2

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Quant Time: Jan 29 03:00:04 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tot Ion: 49 Resp: 1693342

Ion Ratio Lower Upper

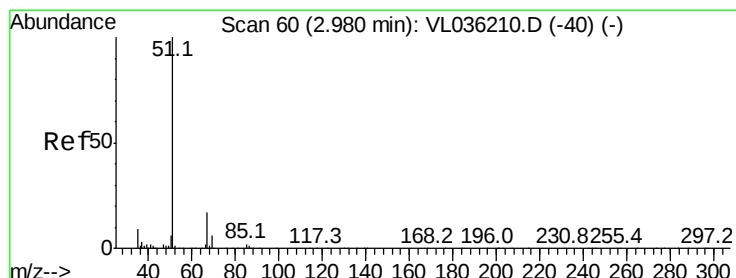
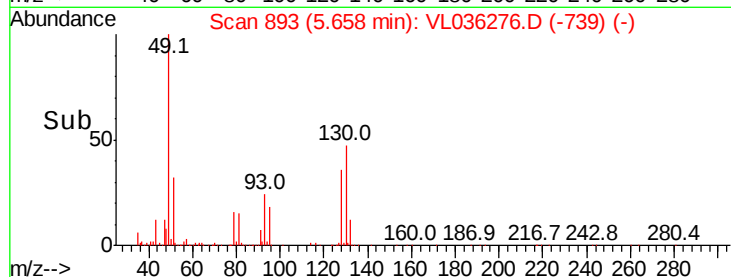
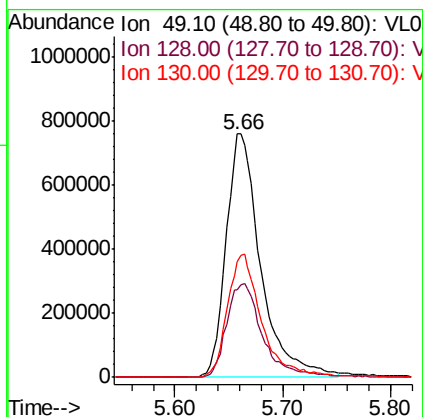
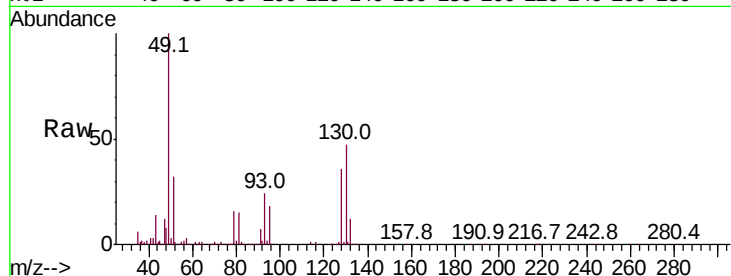
49 100

128 40.5 20.1 60.2

130 50.8 25.3 75.9

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#3

Chlorodifluoromethane

Concen: 0.155 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL036276.D

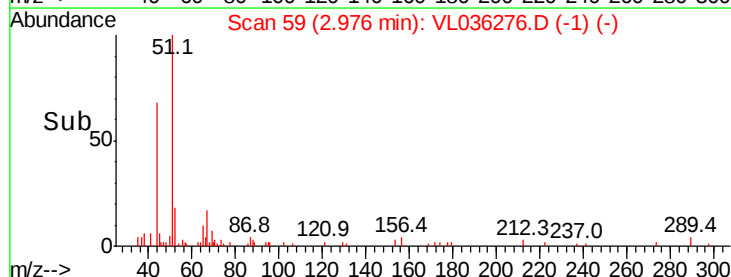
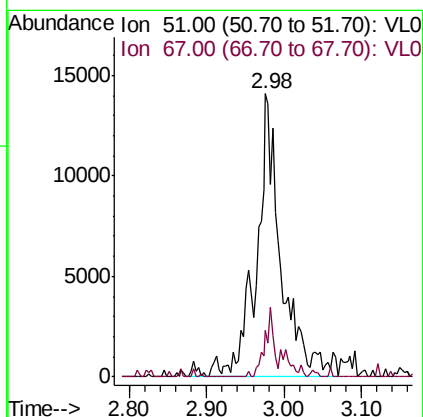
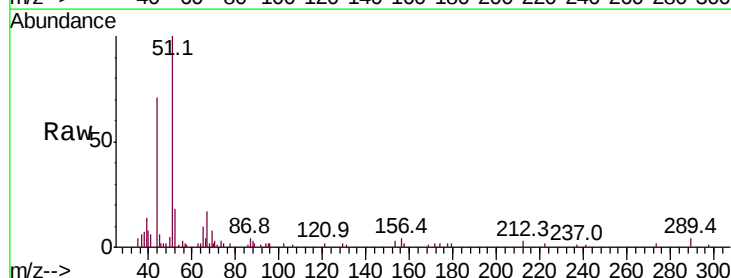
Acq: 28 Jan 2021 18:00

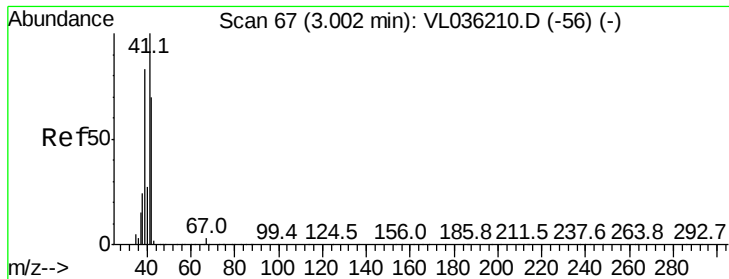
Tgt Ion: 51 Resp: 32207

Ion Ratio Lower Upper

51 100

67 13.4 14.0 21.0#





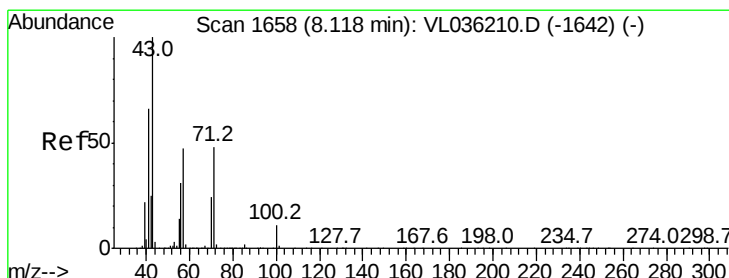
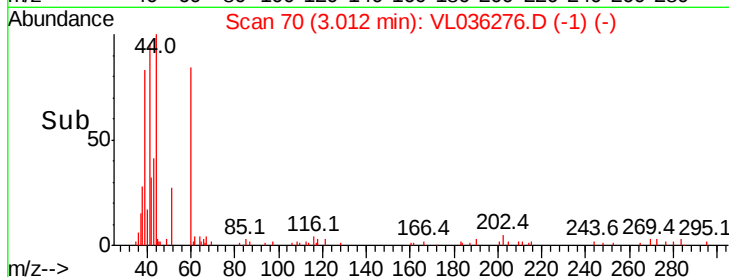
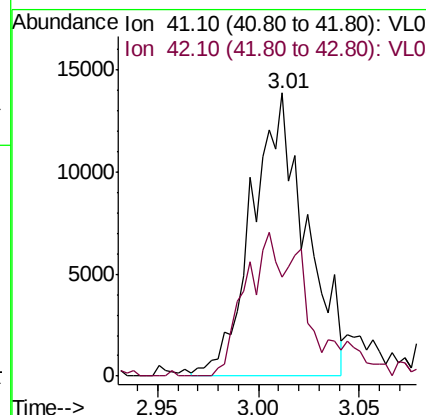
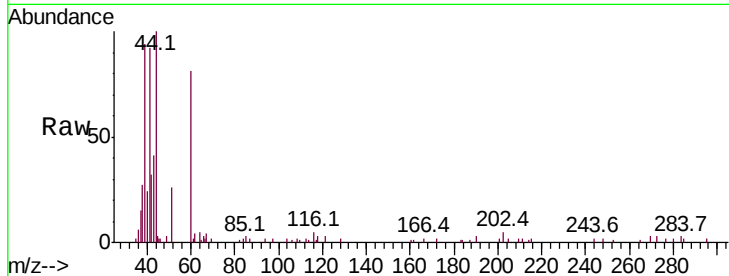
#9
 Propene
 Concen: 0.261 ppbv m
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Tot Ion	41	Ratio	100	Resp:	25867
Ion	41	100		Lower	Upper
	42	62.7		57.1	85.7

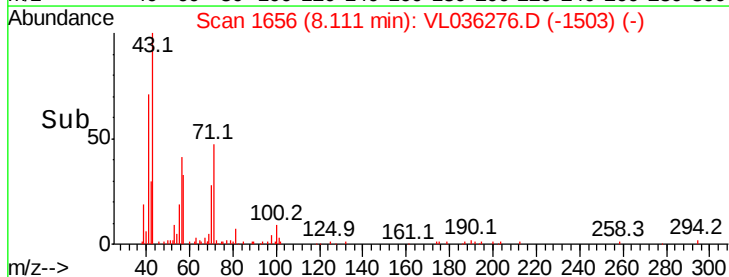
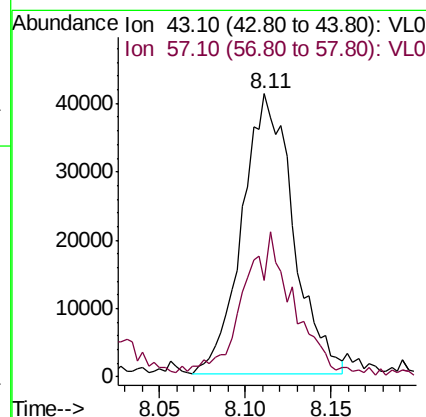
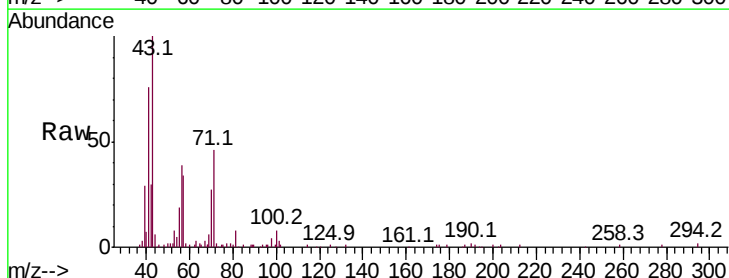
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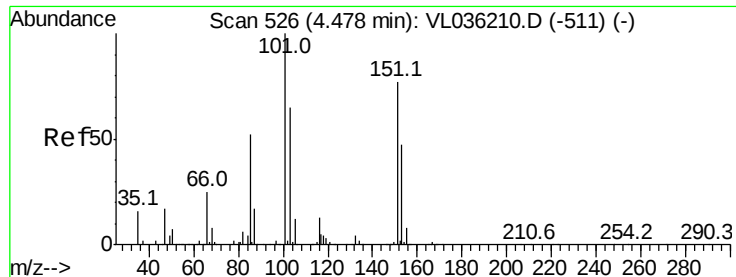
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#10
 Heptane
 Concen: 0.344 ppbv
 RT: 8.11 min Scan# 1656
 Delta R.T. -0.01 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Tgt Ion	43	Ratio	100	Resp:	84608
Ion	43	100		Lower	Upper
	57	47.4		38.1	57.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.128 ppbv m

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion:101 Resp: 17894

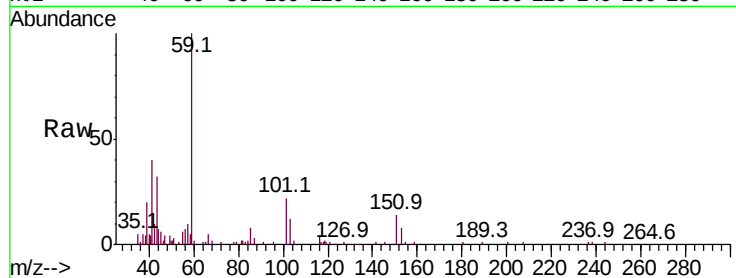
Ion Ratio Lower Upper

101 100

151 73.5 59.8 89.6

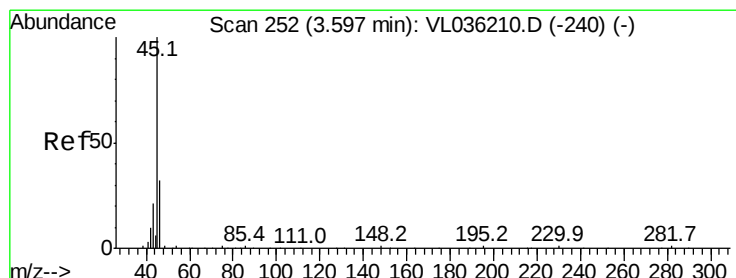
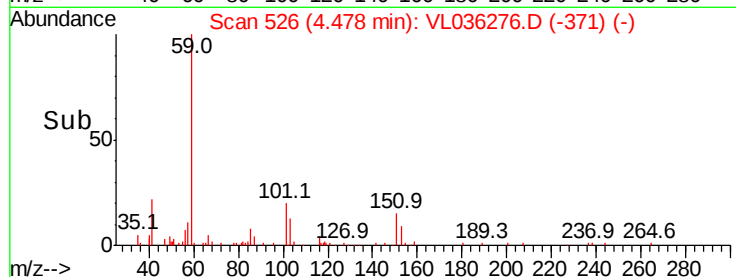
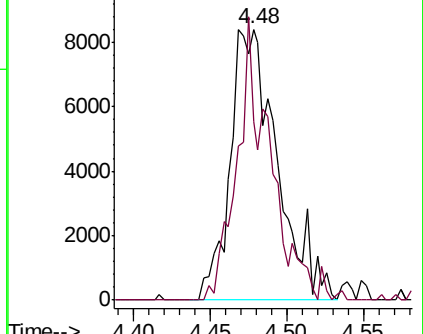
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 593.230 ppbv m

RT: 3.65 min Scan# 267

Delta R.T. 0.05 min

Lab File: VL036276.D

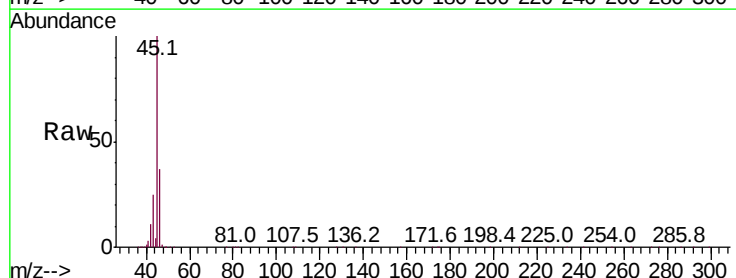
Acq: 28 Jan 2021 18:00

Tgt Ion: 45 Resp: 9225050

Ion Ratio Lower Upper

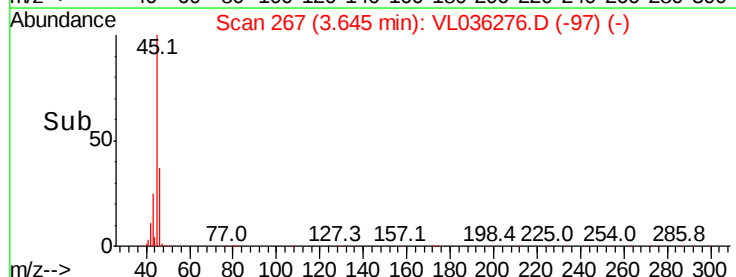
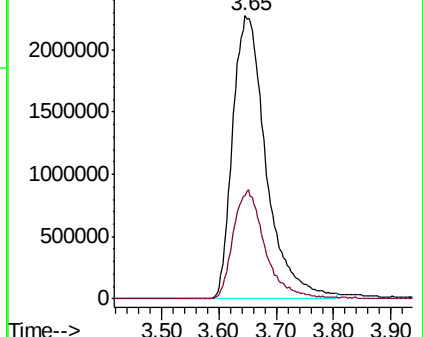
45 100

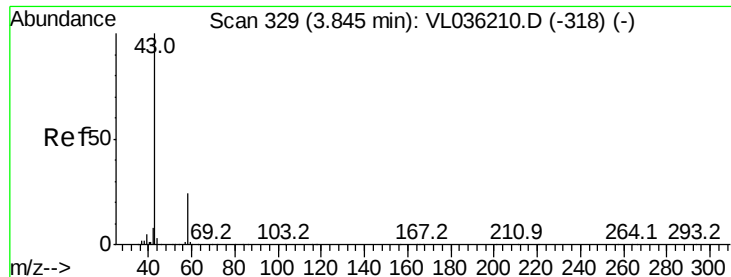
46 0.0 19.2 77.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 56.797 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion: 43 Resp: 11778850

Ion Ratio Lower Upper

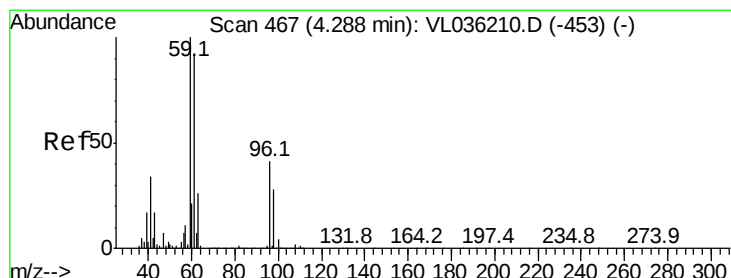
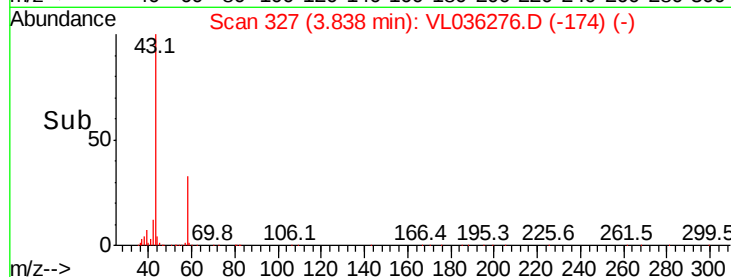
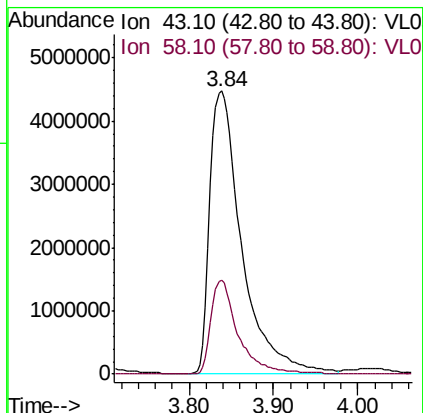
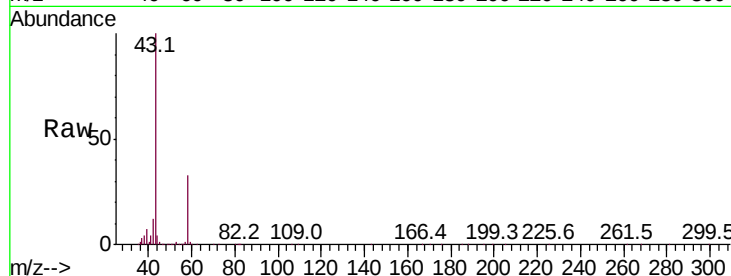
43 100

58 28.6 20.9 31.3

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#17

tert-Butyl alcohol

Concen: 56.992 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.04 min

Lab File: VL036276.D

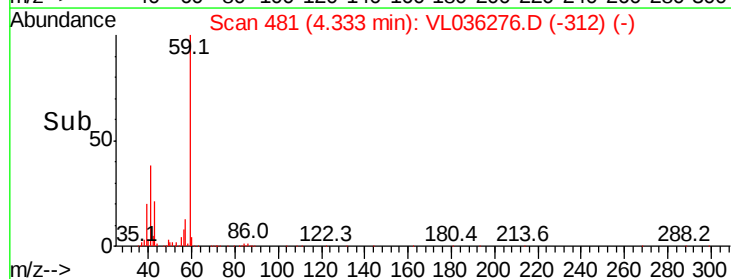
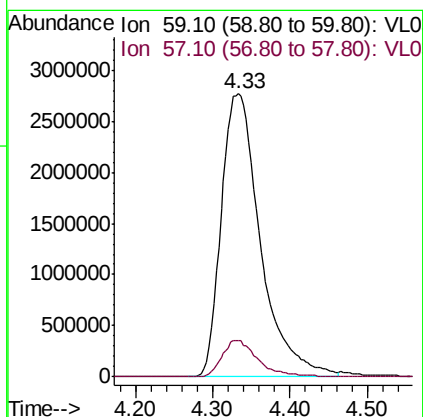
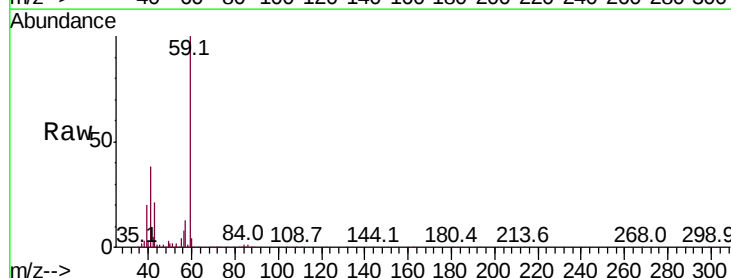
Acq: 28 Jan 2021 18:00

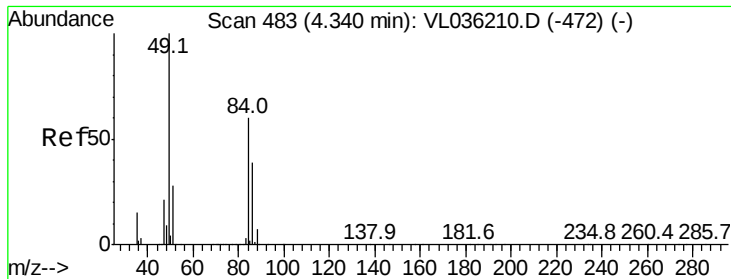
Tgt Ion: 59 Resp: 9753168

Ion Ratio Lower Upper

59 100

57 12.1 9.2 13.8





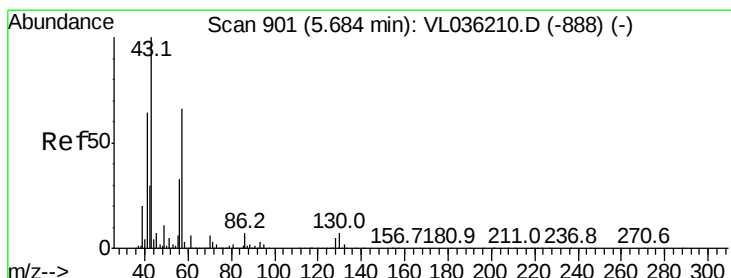
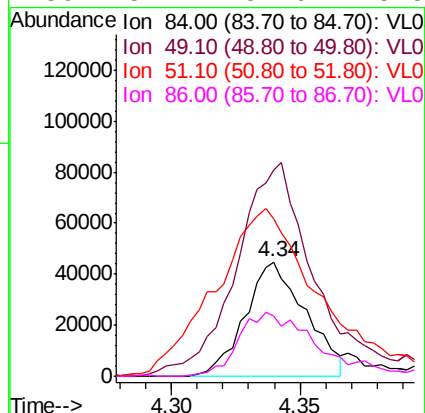
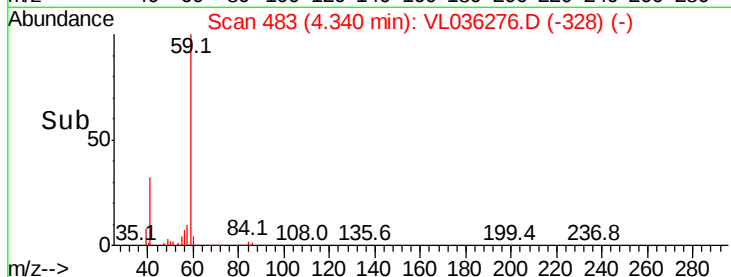
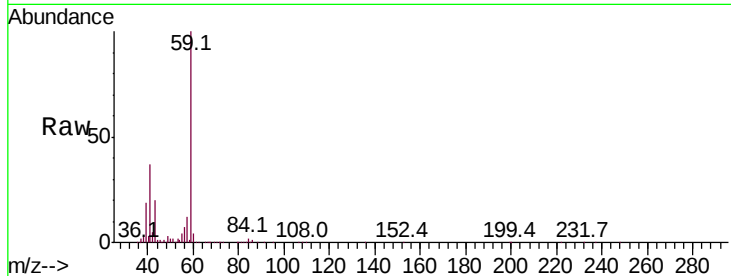
#20
Methvlene Chloride
Concen: 1.105 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	163.6	134.1	201.1	
51	91.7	37.4	56.0	
86	51.1	52.6	78.8	

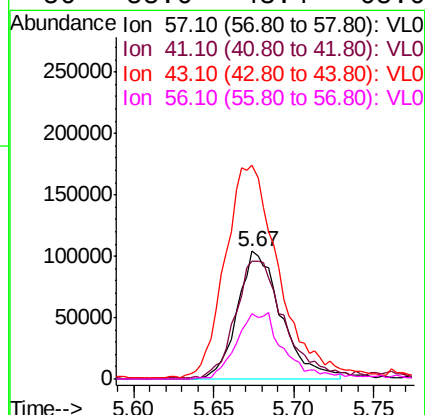
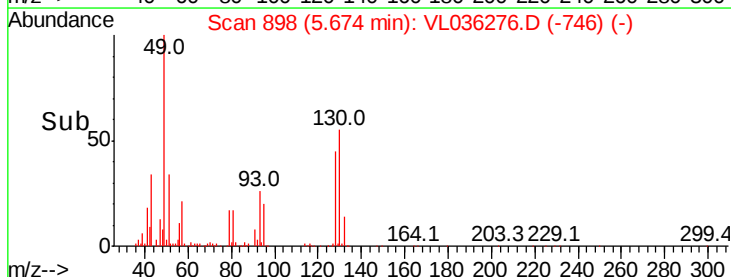
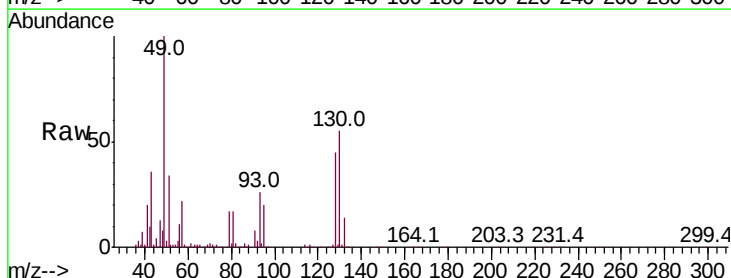
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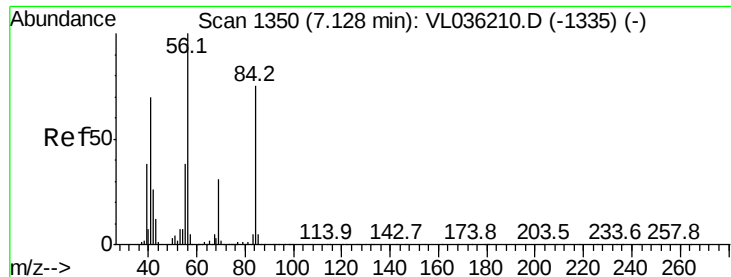
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#26
Hexane
Concen: 1.119 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	110.5	83.0	124.6	
43	211.4	202.4	303.6	
56	58.6	43.4	65.0	





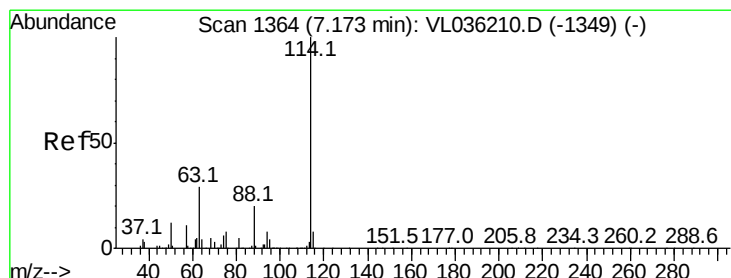
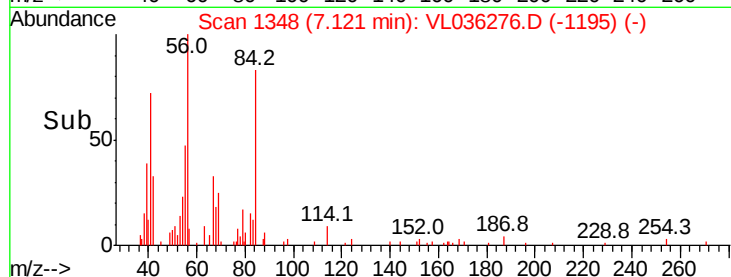
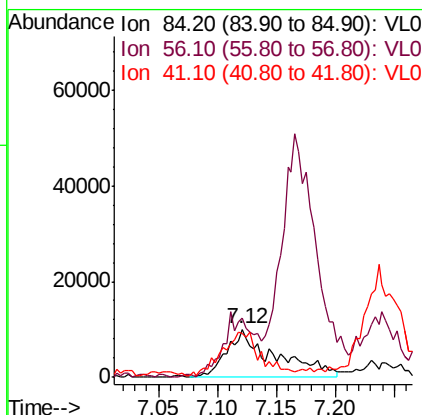
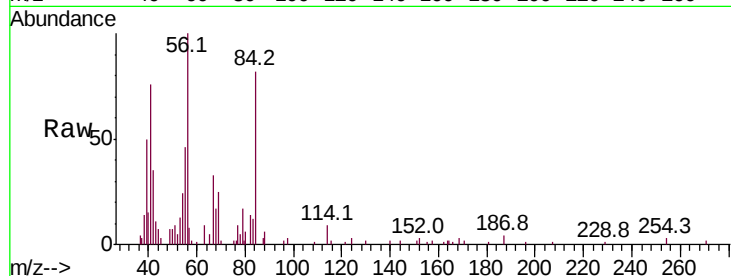
#30
Cyclohexane
Concen: 0.212 ppbv m
RT: 7.12 min Scan# 1348
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	119.4	179.0#
41	0.0	79.4	119.0#

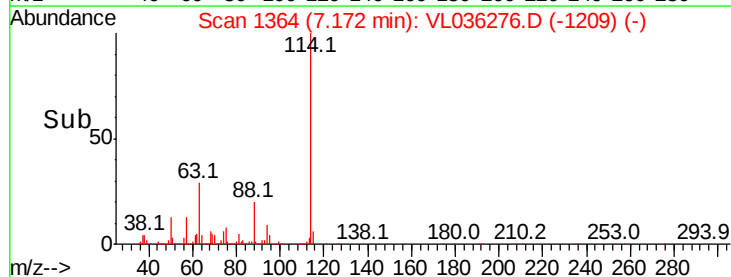
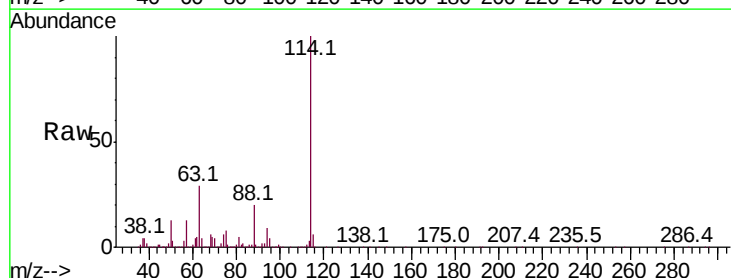
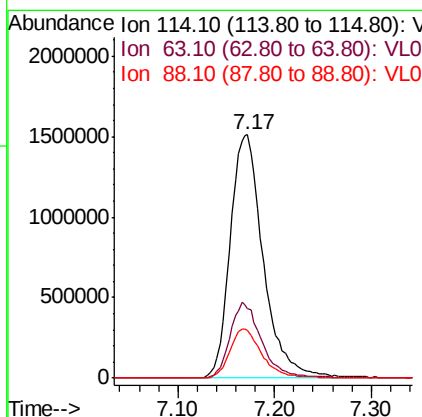
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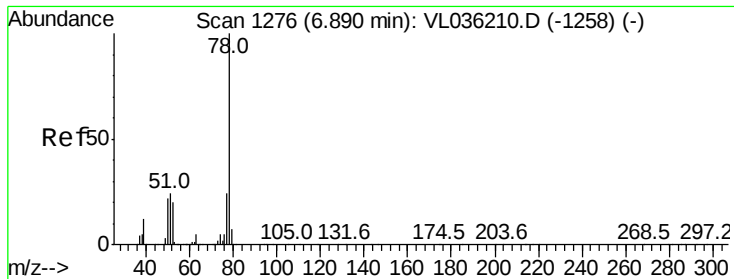
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.0	24.7	37.1
88	19.8	16.6	24.8





#36

Benzene

Concen: 0.292 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

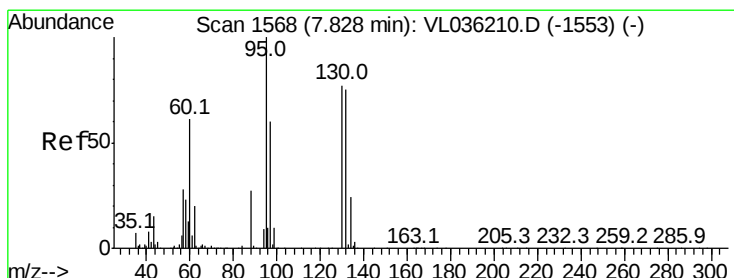
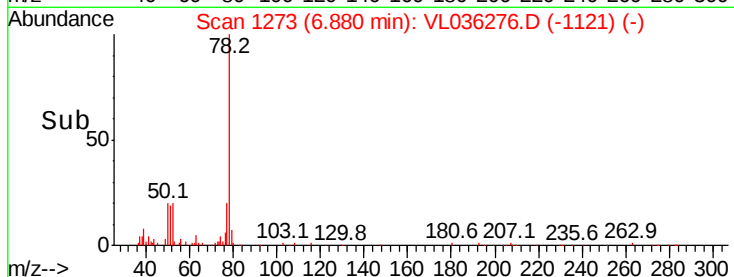
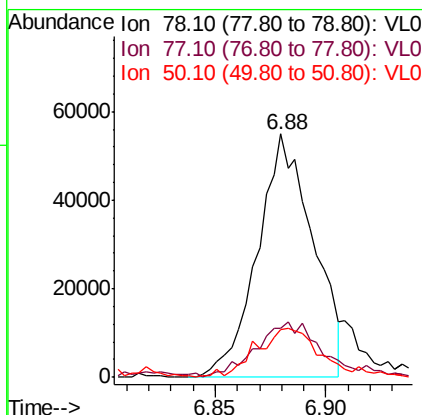
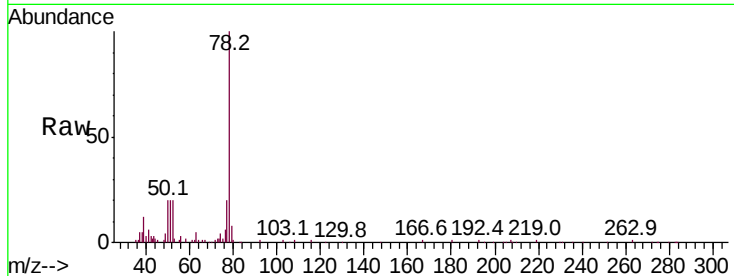
ClientSampleId :

SS-2

Tot Ion:	78	Resp:	95918
Ion Ratio	Lower	Upper	
78	100		
77	18.6	19.4	29.0#
50	19.1	17.4	26.2

Manual Integrations
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#38

Trichloroethene

Concen: 1.746 ppbv

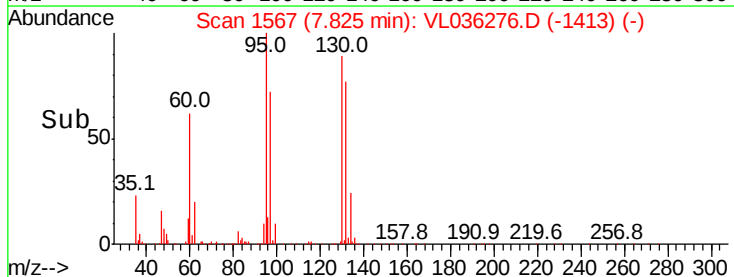
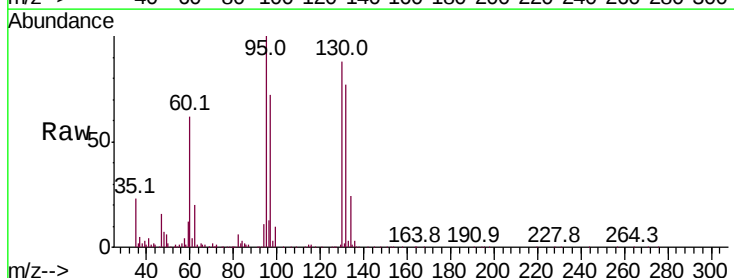
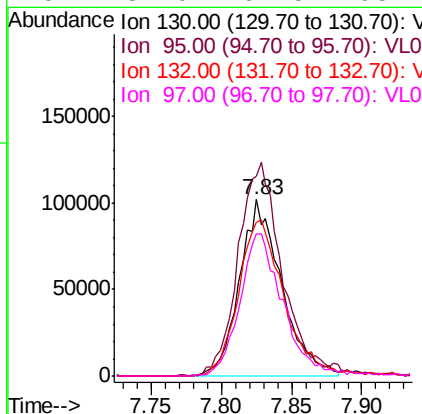
RT: 7.83 min Scan# 1567

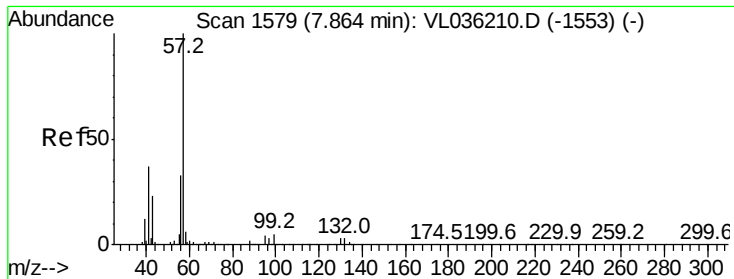
Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Tgt Ion:	130	Resp:	212238
Ion Ratio	Lower	Upper	
130	100		
95	113.0	103.9	155.9
132	87.3	77.4	116.2
97	81.0	62.5	93.7





#44

2,2,4-Trimethylpentane

Concen: 0.189 ppbv m

RT: 7.85 min Scan# 1574

Delta R.T. -0.02 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

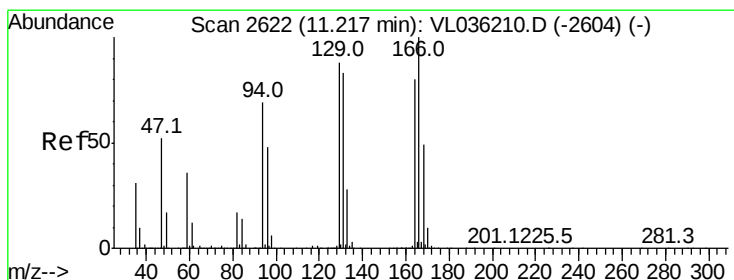
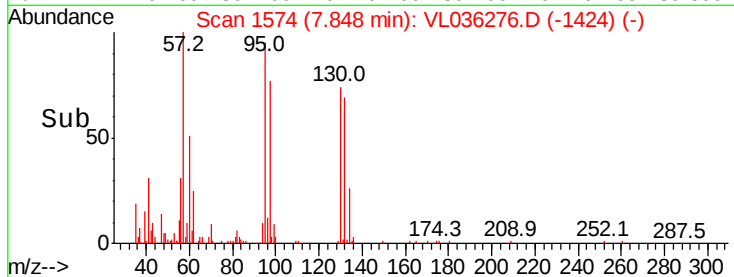
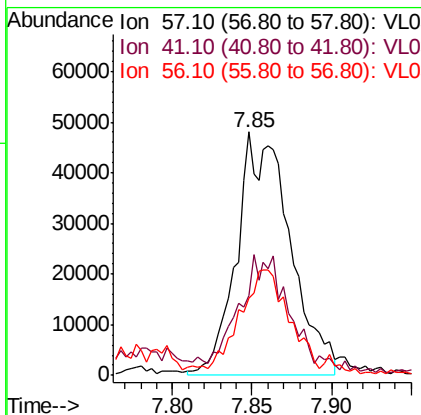
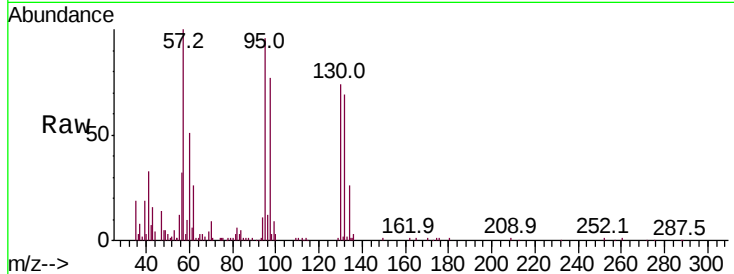
ClientSampled :

SS-2

Tot Ion:	57	Resp:	113731
Ion Ratio	Lower	Upper	
57	100		
41	0.0	28.5	42.7#
56	45.8	25.5	38.3#

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#52

Tetrachloroethene

Concen: 0.059 ppbv m

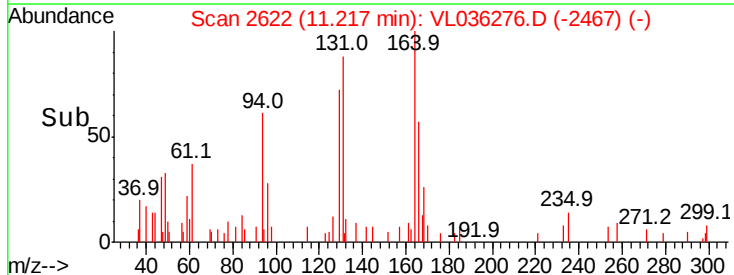
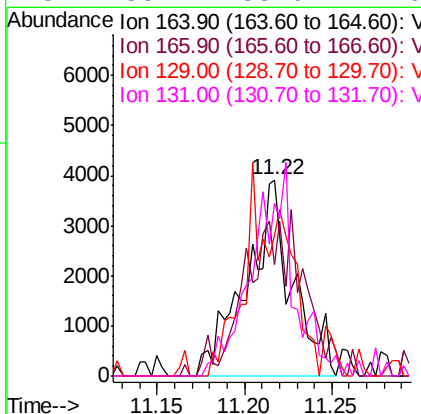
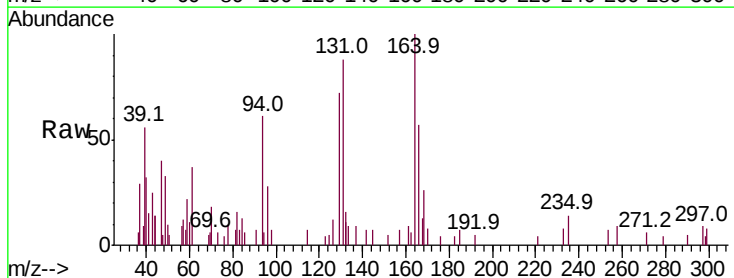
RT: 11.22 min Scan# 2622

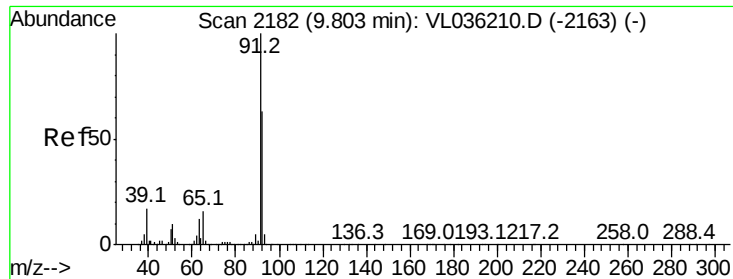
Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Tgt Ion:	164	Resp:	7190
Ion Ratio	Lower	Upper	
164	100		
166	57.0	99.9	149.9#
129	71.8	88.2	132.4#
131	88.4	83.0	124.6





#53

Toluene

Concen: 2.730 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tot Ion: 91 Resp: 1002402

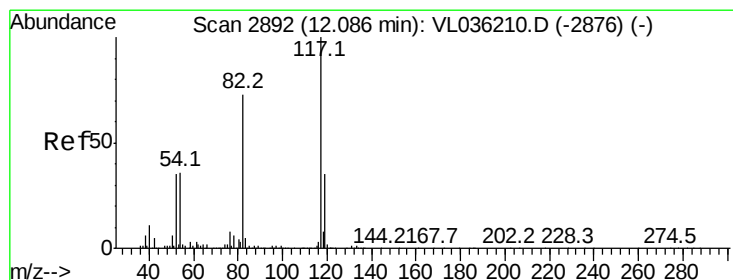
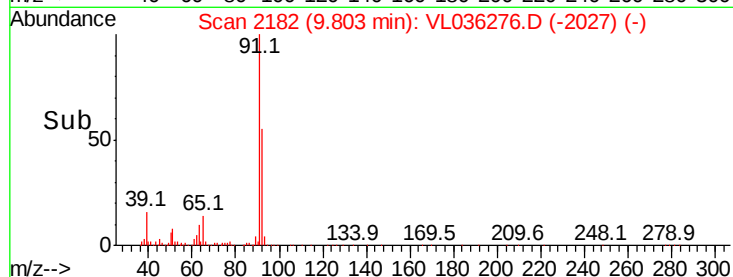
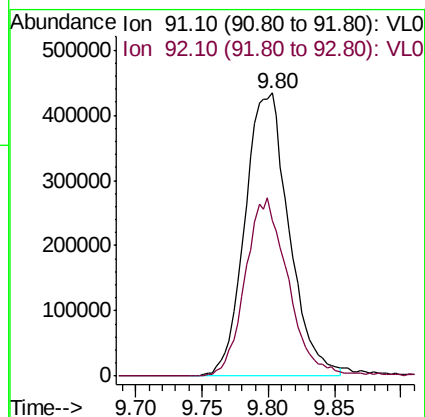
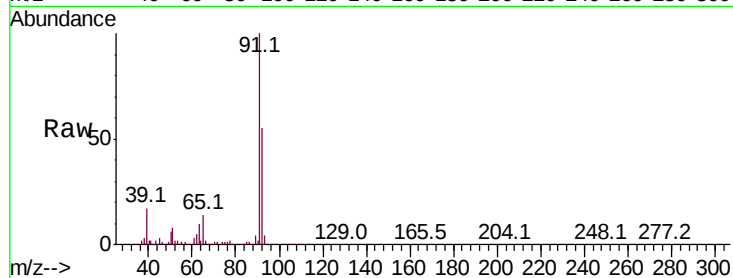
Ion Ratio Lower Upper

91 100

92 62.1 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

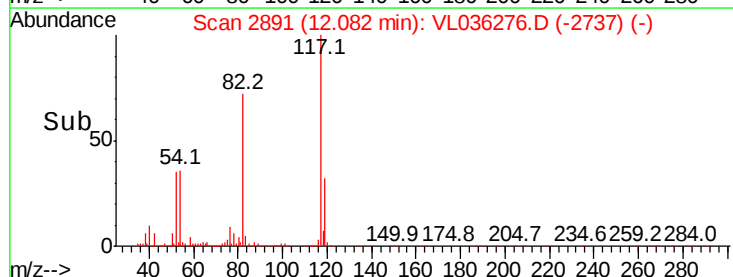
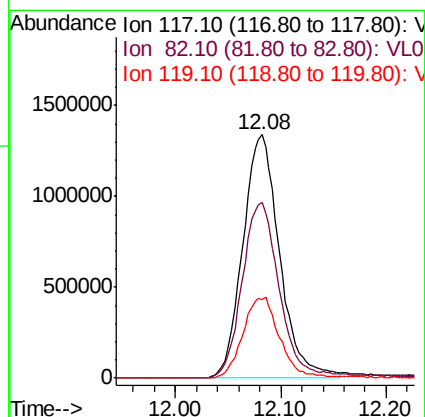
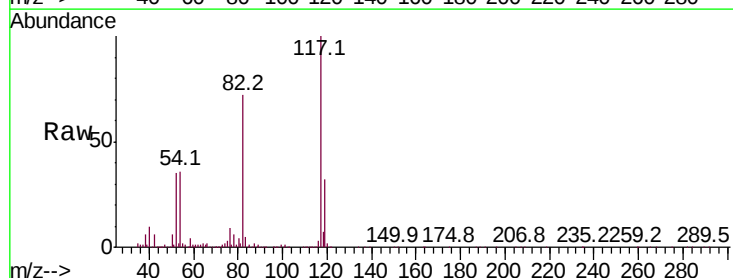
Tgt Ion: 117 Resp: 3241430

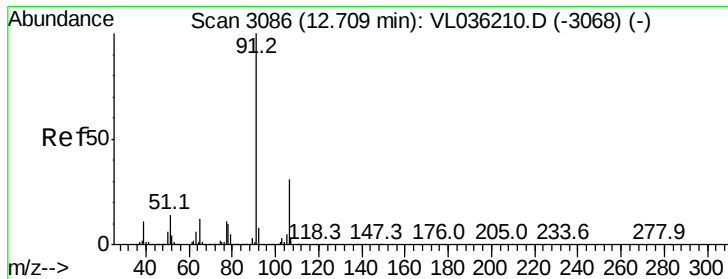
Ion Ratio Lower Upper

117 100

82 74.7 59.7 89.5

119 34.0 28.6 43.0





#58

Ethyl Benzene

Concen: 0.360 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL036276.D

Acq: 28 Jan 2021 18:00

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion: 91 Resp: 173316

Ion Ratio Lower Upper

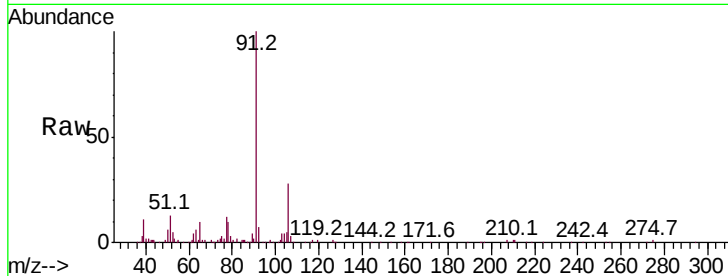
91 100

106 28.2 24.8 37.2

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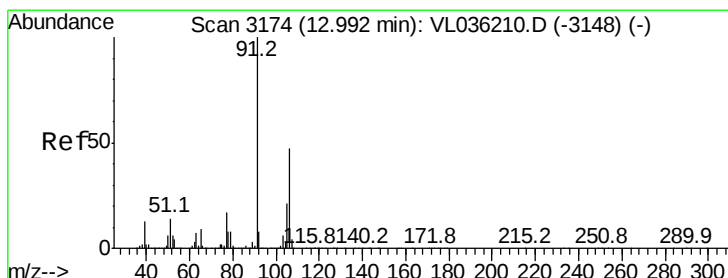
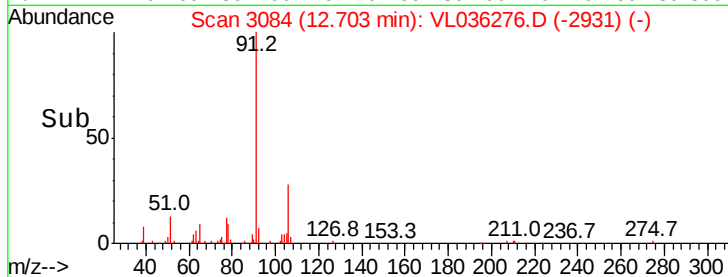
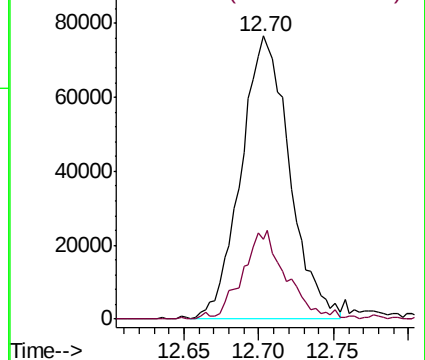
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.409 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL036276.D

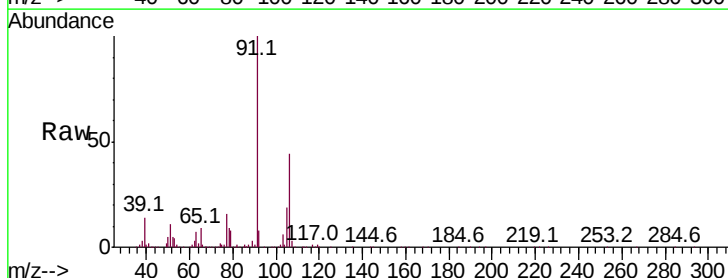
Acq: 28 Jan 2021 18:00

Tgt Ion: 91 Resp: 582196

Ion Ratio Lower Upper

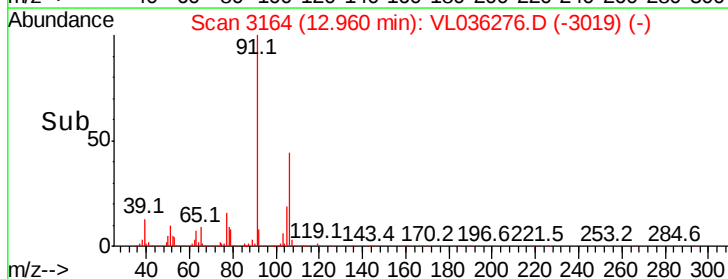
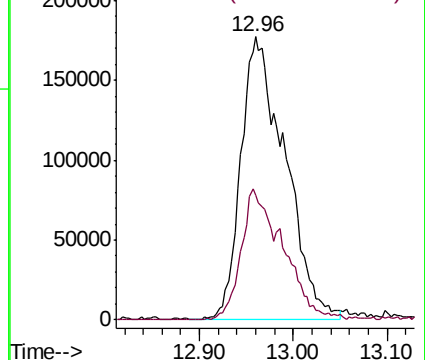
91 100

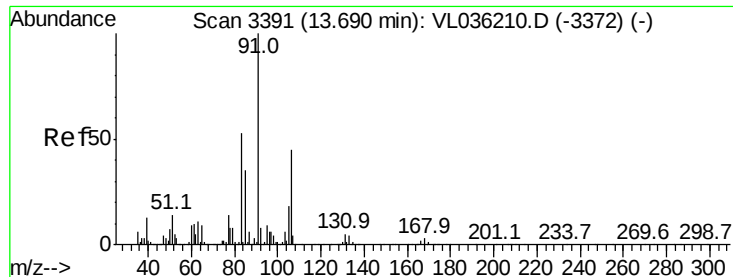
106 0.0 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





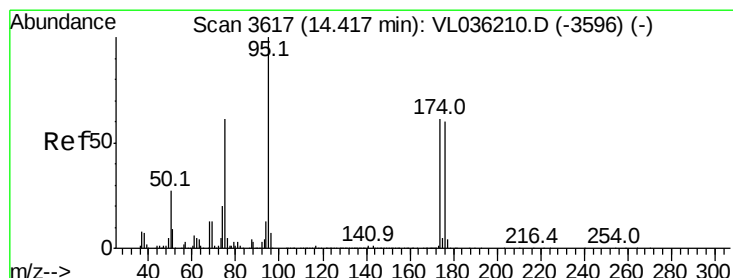
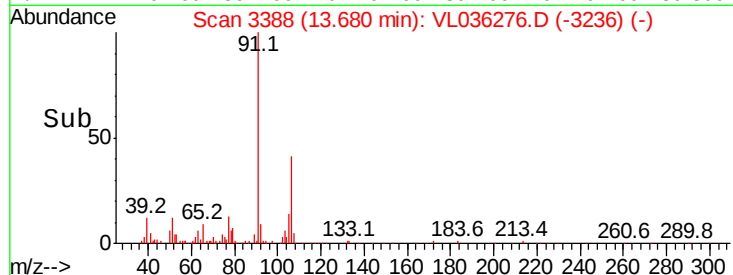
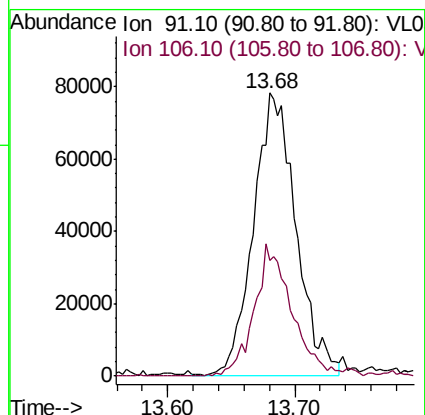
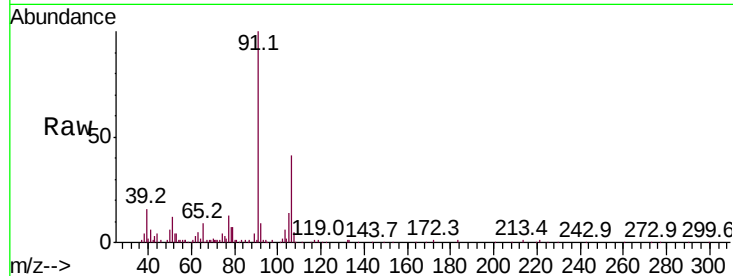
#60
o-Xylene
Concen: 0.459 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Instrument :
MSVOA_L
Client Sampled :
SS-2

Tot Ion: 91 Resp: 182872
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#

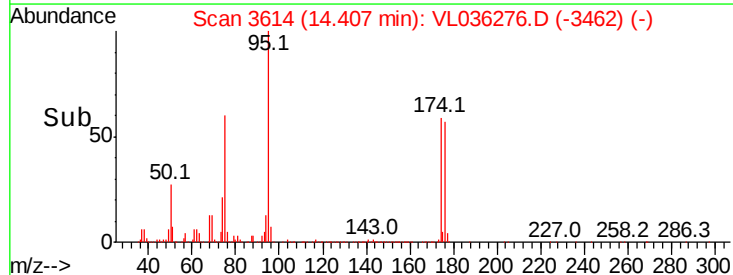
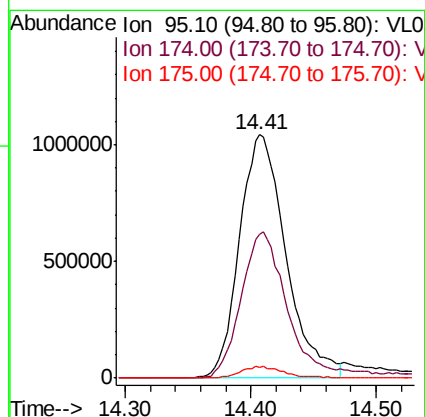
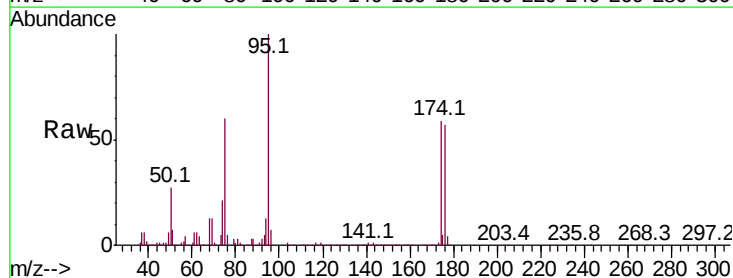
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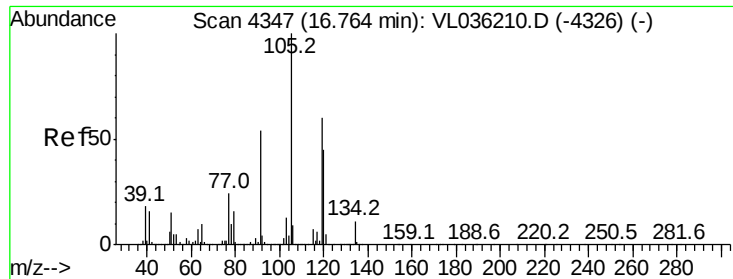
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL036276.D
Acq: 28 Jan 2021 18:00

Tgt Ion: 95 Resp: 2681224
Ion Ratio Lower Upper
95 100
174 63.7 49.4 74.0
175 4.7 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.177 ppbv m
 RT: 16.76 min Scan# 4345
 Delta R.T. -0.01 min
 Lab File: VL036276.D
 Acq: 28 Jan 2021 18:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Tot Ion:	105	Resp:	77935
Ion Ratio	Lower	Upper	
105	100		
120	40.3	36.2	54.2
91	10.9	43.3	64.9#
77	20.2	19.1	28.7

Manual Integrations
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