

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036232.D
 Acq On : 13 Jan 2021 19:35
 Operator : SY/AP
 Sample : M1066-09
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS6

Manual Integrations
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 1/18/2021 3:49:46 PM

Quant Time: Jan 15 08:32:16 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 16:13:38 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	5.67	49	1547307	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3367848	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2986923	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2455096	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	37596m	0.181	ppbv	
3) Chlorodifluoromethane	2.99	51	47318m	0.249	ppbv	
4) Chloromethane	3.14	50	22847	0.243	ppbv	98
9) Propene	3.02	41	65194	0.720	ppbv	# 70
11) Trichlorofluoromethane	3.95	101	45702m	0.217	ppbv	
13) Ethanol	3.64	45	2445206	172.083	ppbv	83
15) Acetone	3.85	43	3250710	17.154	ppbv	98
17) tert-Butyl alcohol	4.33	59	306555	1.960	ppbv	97
20) Methylene Chloride	4.35	84	2571964	42.524	ppbv	96
26) Hexane	5.69	57	3359278	21.208	ppbv	# 36
34) 2-Butanone	5.26	43	235552	0.950	ppbv	98
35) Carbon Tetrachloride	7.02	117	10994m	0.052	ppbv	
36) Benzene	6.90	78	68211m	0.221	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	62475m	0.110	ppbv	
53) Toluene	9.81	91	293515m	0.850	ppbv	
58) Ethyl Benzene	12.73	91	60539m	0.137	ppbv	
59) m/p-Xylene	12.98	91	167117m	0.439	ppbv	
60) o-Xylene	13.70	91	68853	0.188	ppbv	91
73) 1,3,5-Trimethylbenzene	16.01	105	37915m	0.096	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	136882m	0.338	ppbv	

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

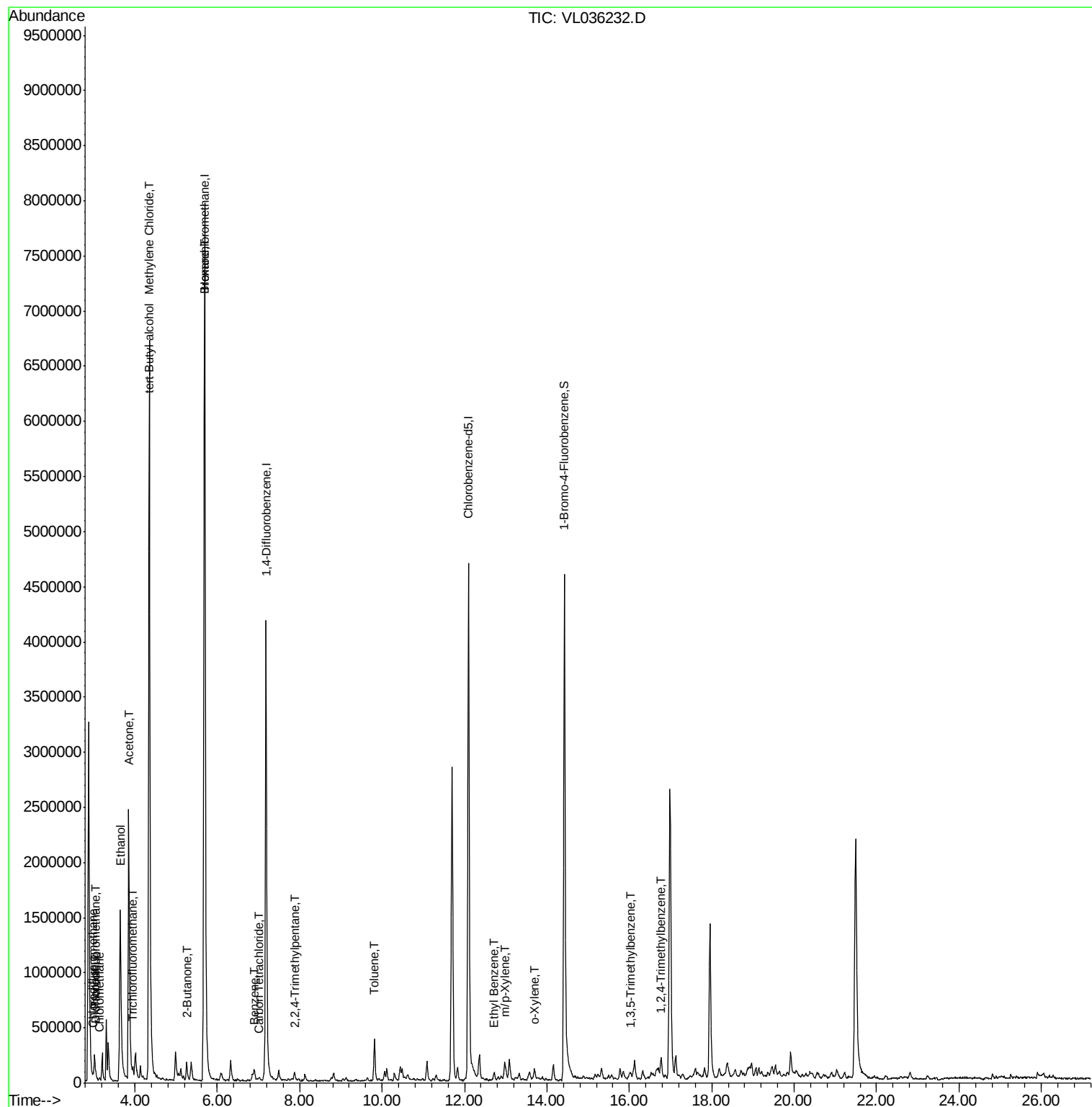
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
Data File : VL036232.D
Acq On : 13 Jan 2021 19:35
Operator : SY/AP
Sample : M1066-09
Misc : 400ml/MSVOA L
ALS Vial : 11 Sample Multiplier: 1

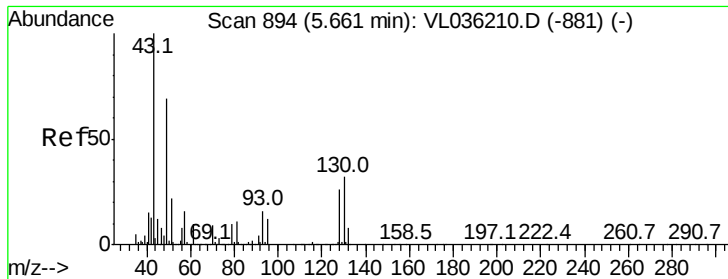
Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

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Quant Time: Jan 15 08:32:16 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: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Instrument :

MSVOA_L

ClientSampleId :

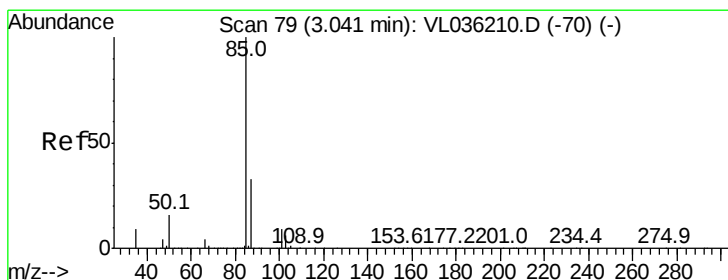
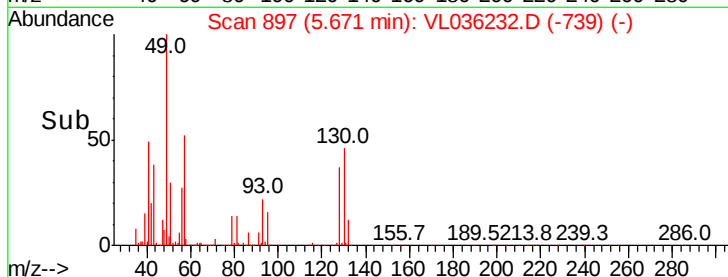
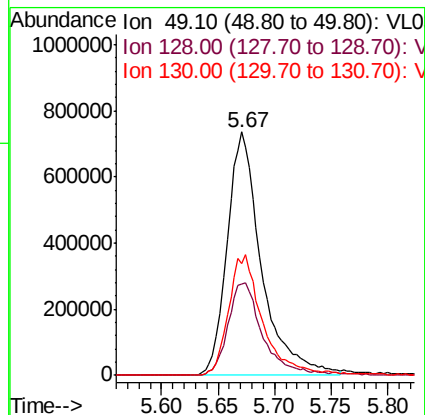
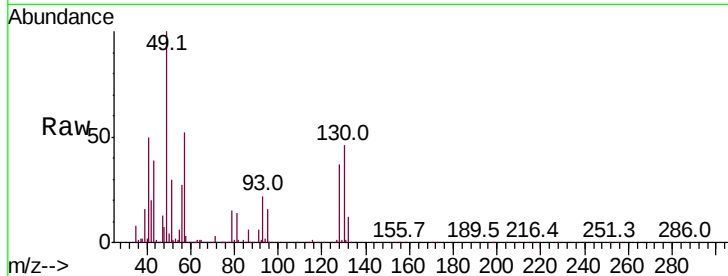
0121-SS6

Tot Ion: 49 Resp: 1547307

Ion	Ratio	Lower	Upper
49	100		
128	39.1	20.1	60.2
130	50.5	25.3	75.9

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#2

Dichlorodifluoromethane

Concen: 0.181 ppbv m

RT: 3.05 min Scan# 82

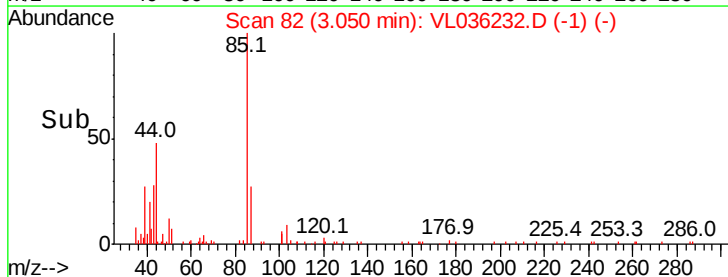
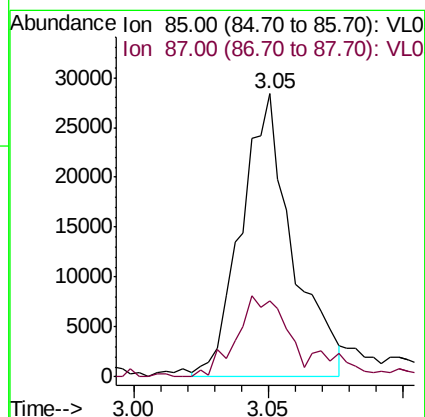
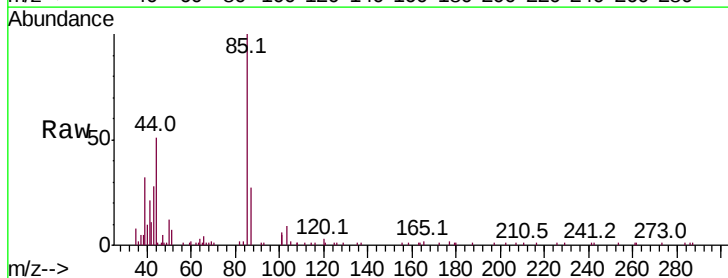
Delta R.T. 0.01 min

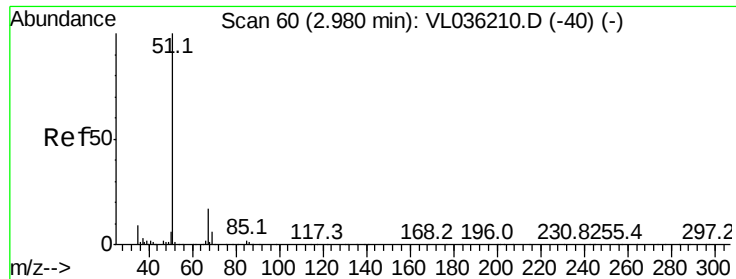
Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Tgt Ion: 85 Resp: 37596

Ion	Ratio	Lower	Upper
85	100		
87	27.0	26.4	39.6





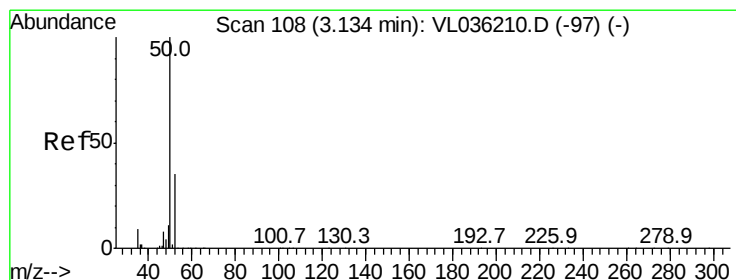
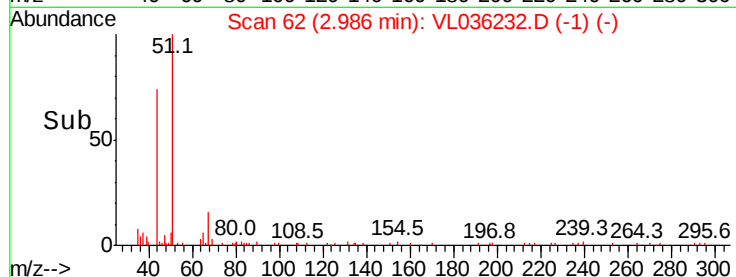
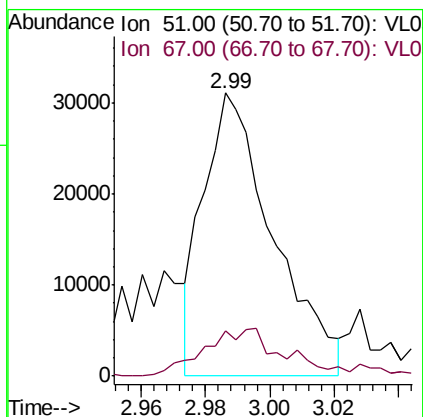
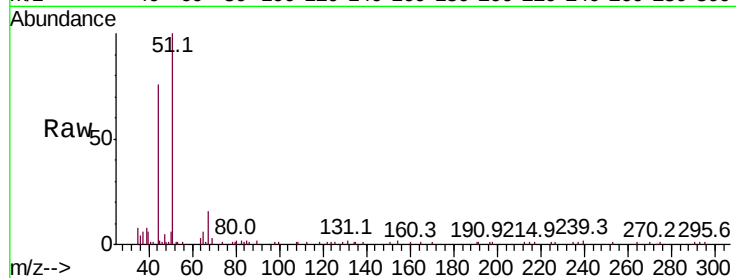
#3
Chlorodifluoromethane
Concen: 0.249 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.9	14.0	21.0#

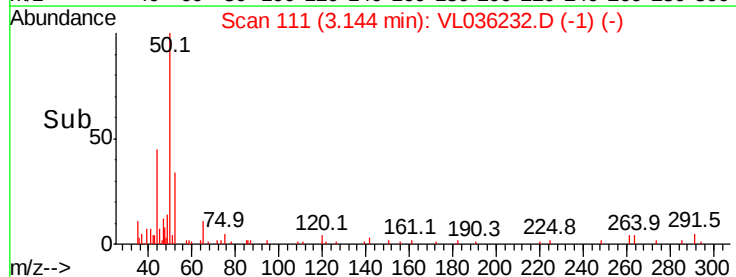
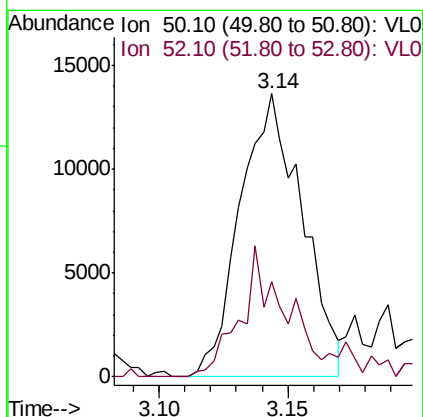
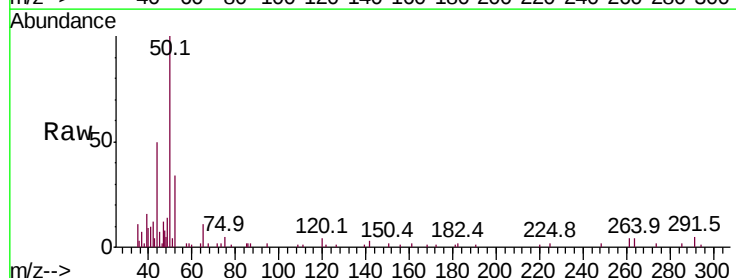
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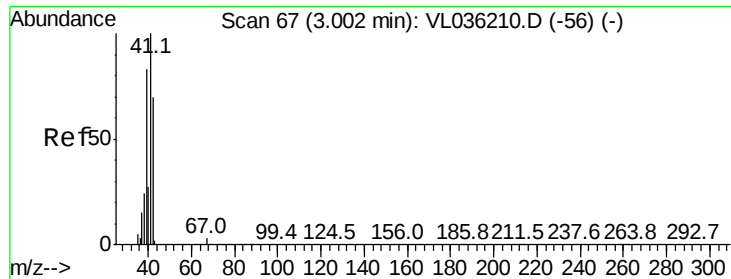
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#4
Chloromethane
Concen: 0.243 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.8	41.8





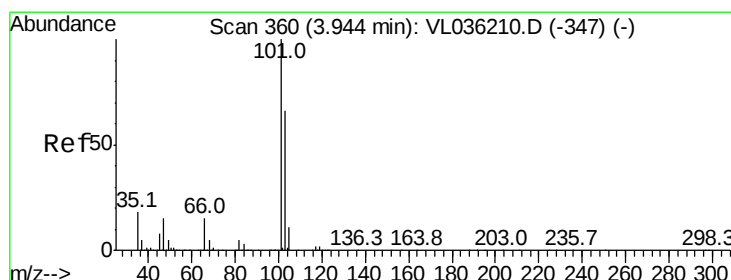
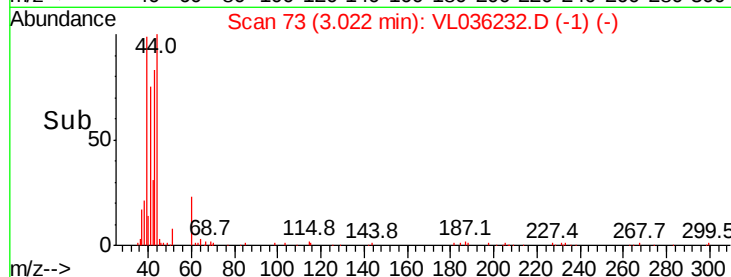
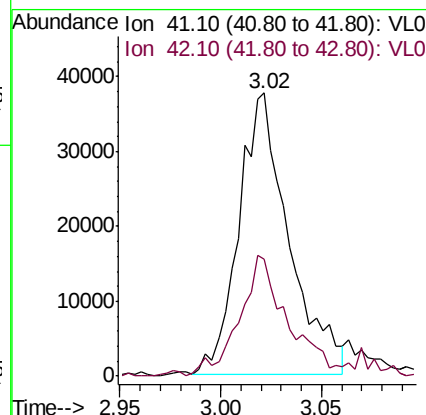
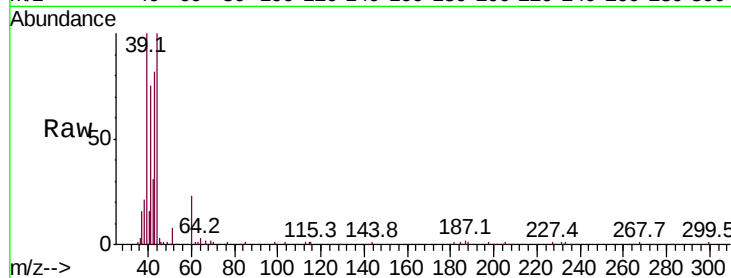
#9
 Propene
 Concen: 0.720 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.02 min
 Lab File: VL036232.D
 Acq: 13 Jan 2021 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS6

Tot Ion: 41 Resp: 65194
 Ion Ratio Lower Upper
 41 100
 42 46.7 57.1 85.7#

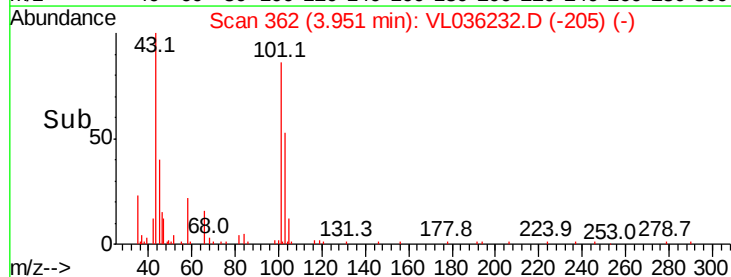
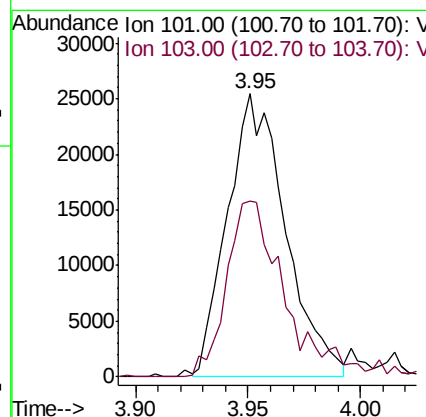
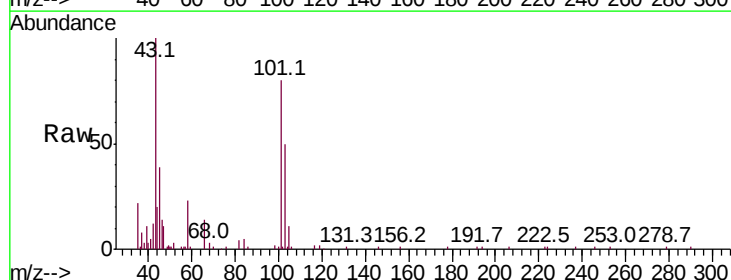
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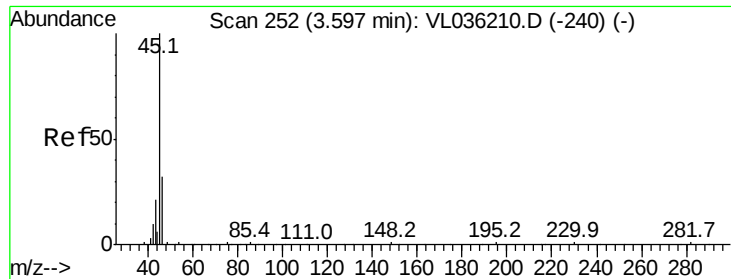
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#11
 Trichlorofluoromethane
 Concen: 0.217 ppbv m
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL036232.D
 Acq: 13 Jan 2021 19:35

Tgt Ion: 101 Resp: 45702
 Ion Ratio Lower Upper
 101 100
 103 62.2 52.6 78.8





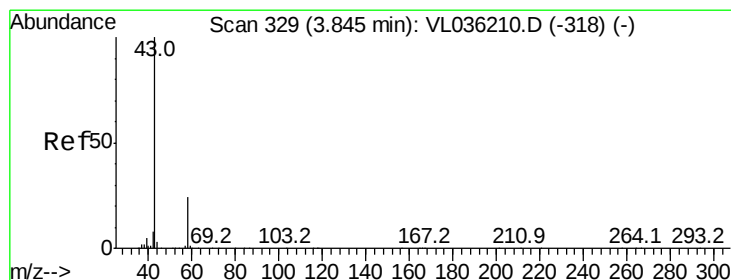
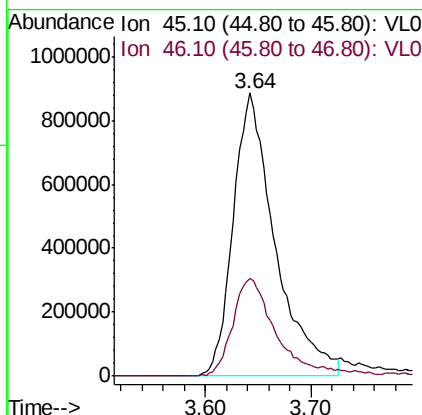
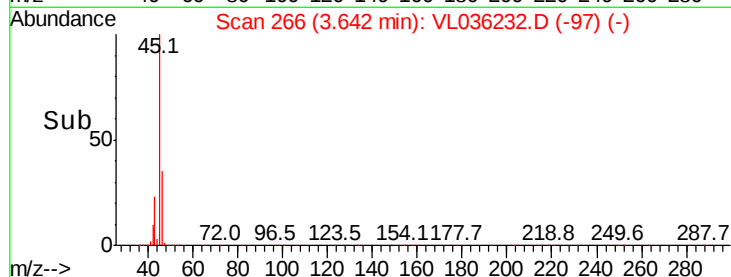
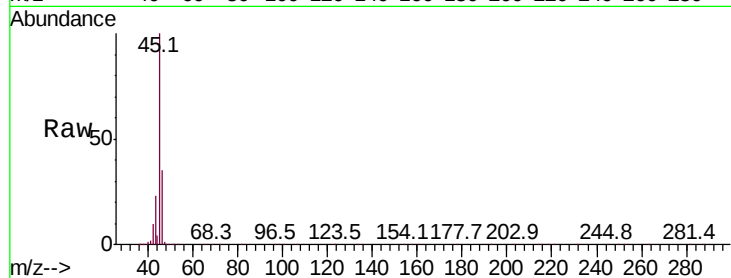
#13
Ethanol
Concen: 172.083 ppbv
RT: 3.64 min Scan# 266
Delta R.T. 0.04 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion: 45 Resp: 2445206
Ion Ratio Lower Upper
45 100
46 36.3 19.2 77.0

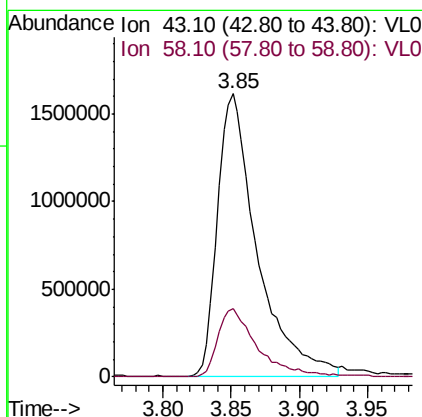
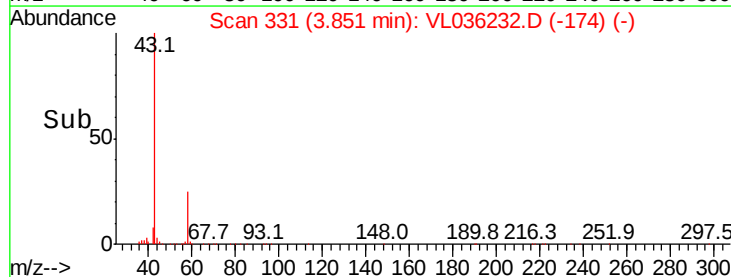
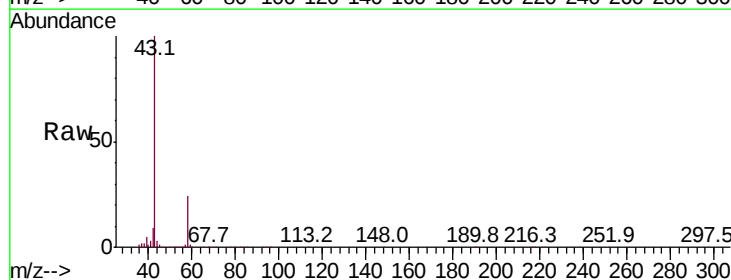
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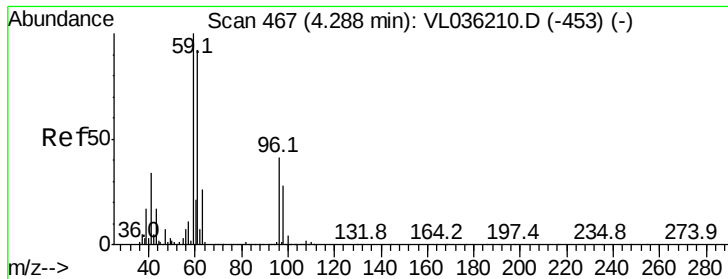
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#15
Acetone
Concen: 17.154 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Tgt Ion: 43 Resp: 3250710
Ion Ratio Lower Upper
43 100
58 25.1 20.9 31.3





#17

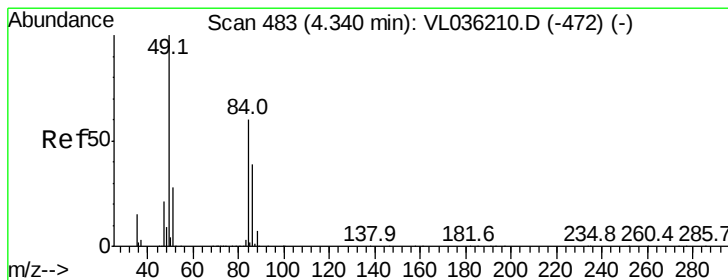
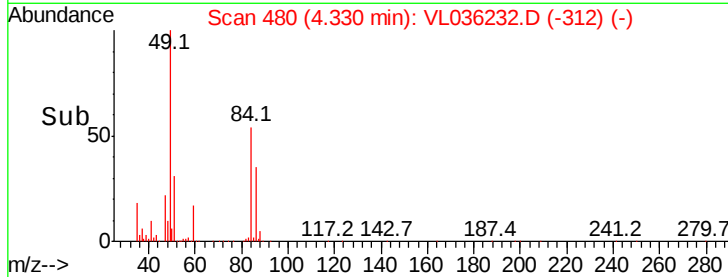
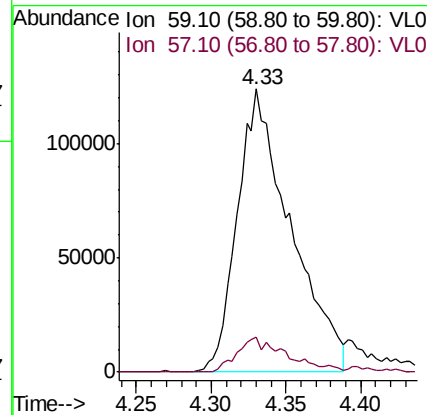
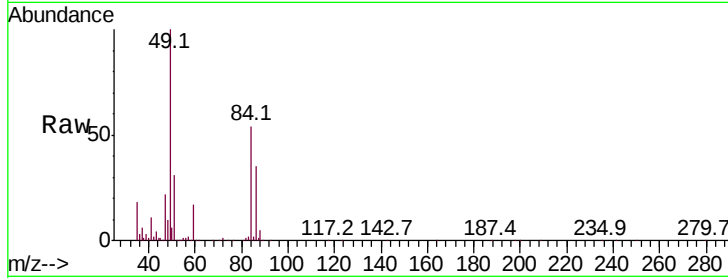
tert-Butyl alcohol
Concen: 1.960 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.04 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.7	9.2	13.8

Manual Integrations
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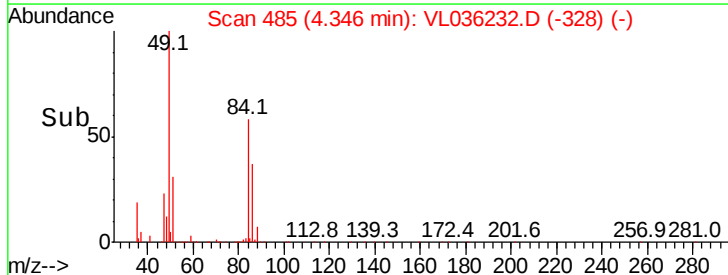
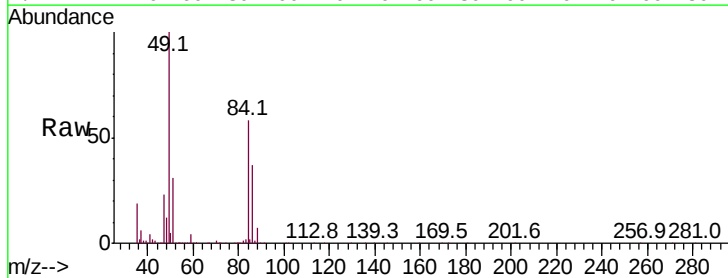
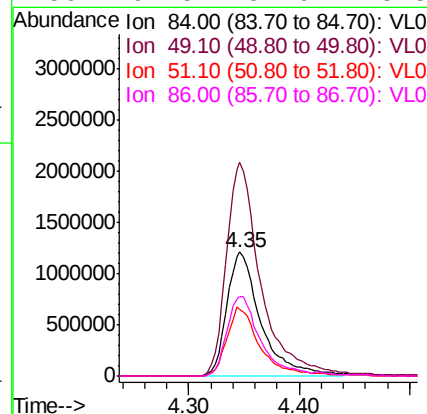
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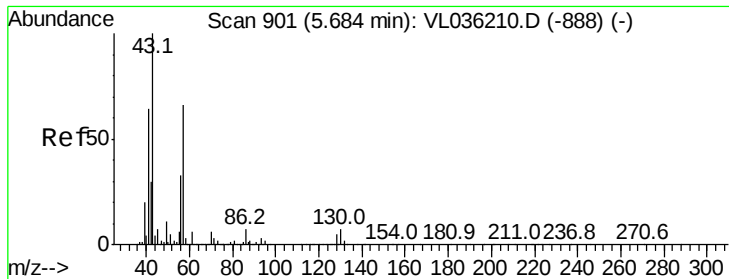


#20

Methylene Chloride
Concen: 42.524 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	172.4	134.1	201.1
51	54.1	37.4	56.0
86	64.5	52.6	78.8





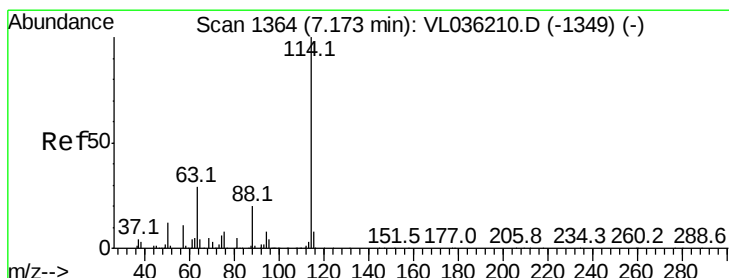
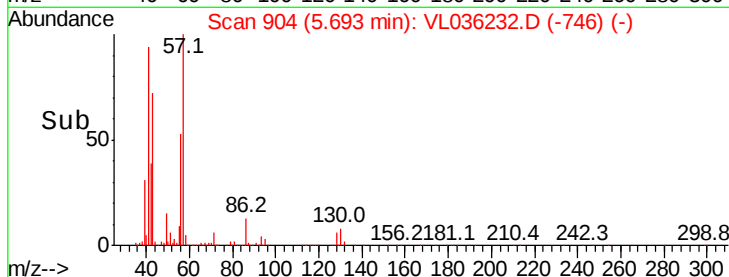
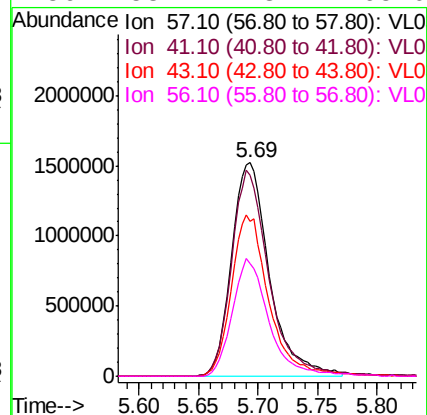
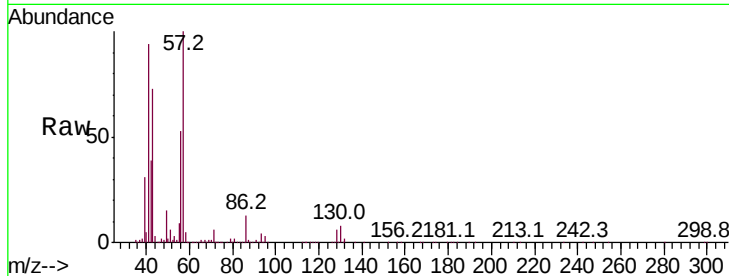
#26
Hexane
Concen: 21.208 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.1	83.0	124.6
43	75.2	202.4	303.6#
56	53.4	43.4	65.0

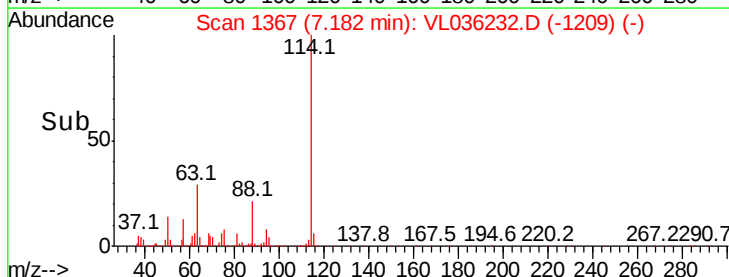
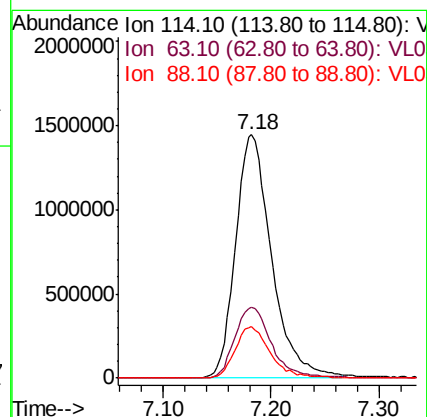
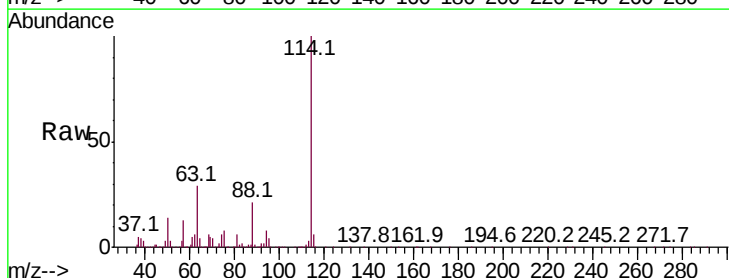
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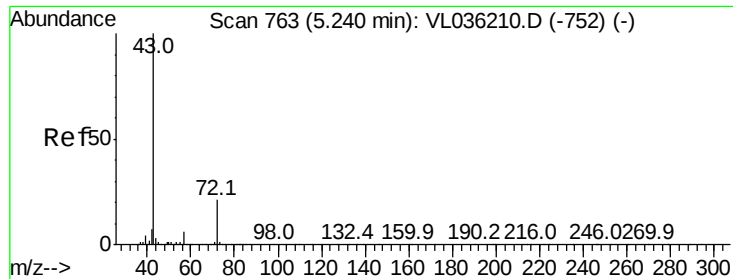
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.0	24.7	37.1
88	20.9	16.6	24.8





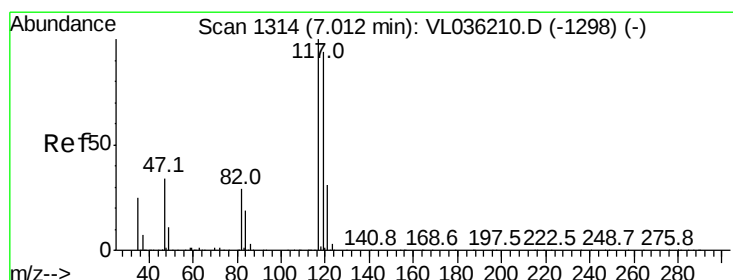
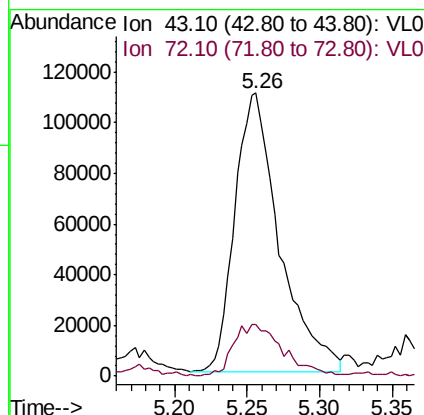
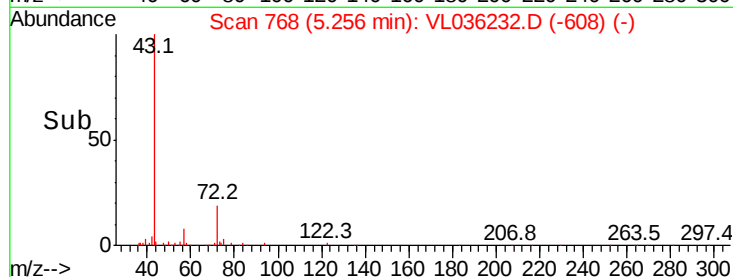
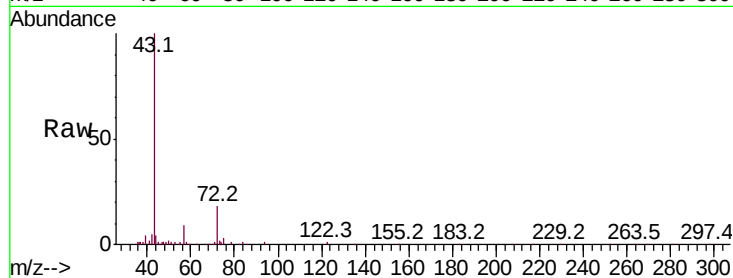
#34
2-Butanone
Concen: 0.950 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.02 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion: 43 Resp: 23552
Ion Ratio Lower Upper
43 100
72 20.8 16.1 24.1

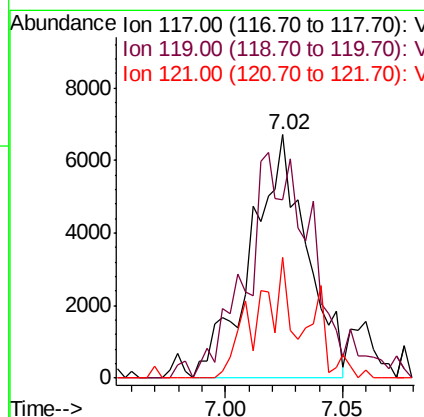
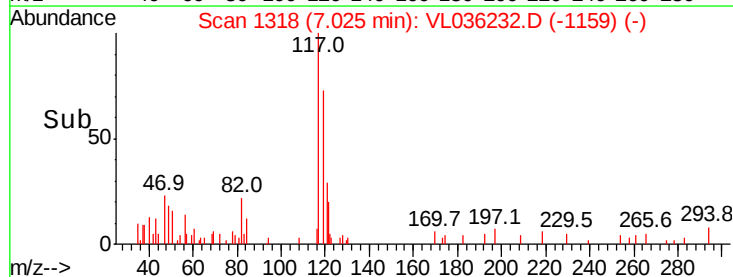
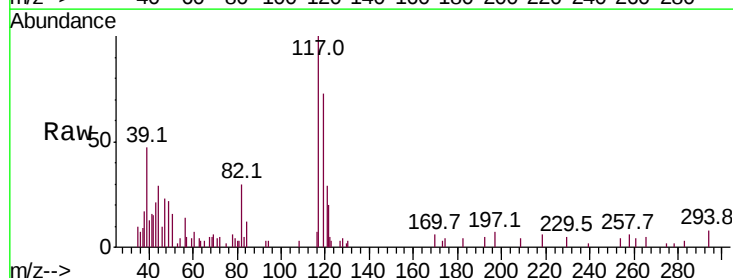
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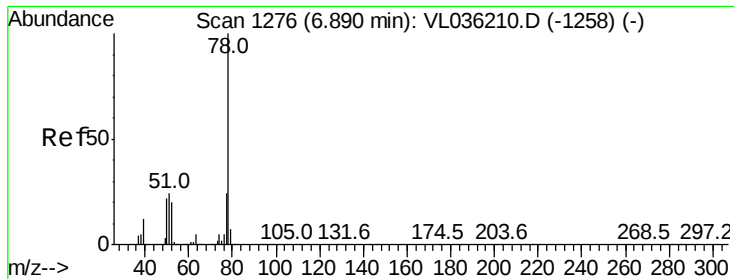
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#35
Carbon Tetrachloride
Concen: 0.052 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Tgt Ion: 117 Resp: 10994
Ion Ratio Lower Upper
117 100
119 73.2 74.9 112.3#
121 29.3 25.0 37.6





#36

Benzene

Concen: 0.221 ppbv m

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Instrument :

MSVOA_L

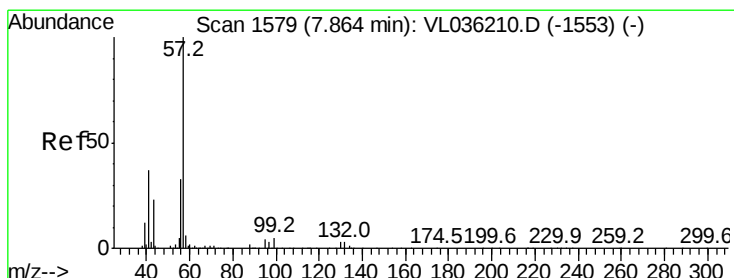
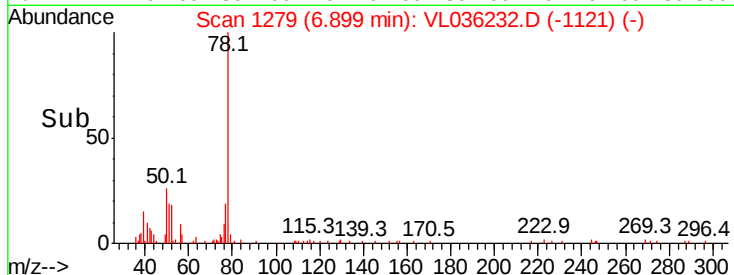
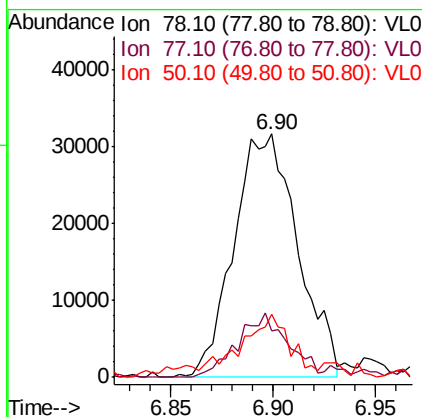
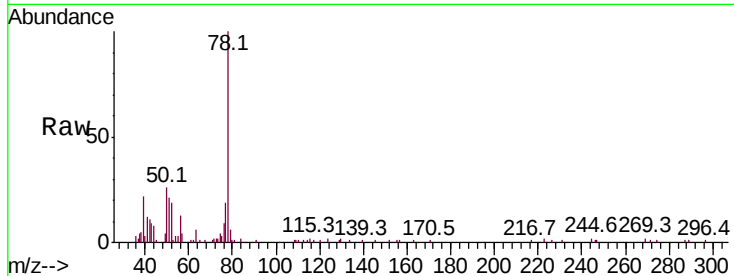
ClientSampleId :

0121-SS6

Tot Ion:	78	Resp:	68211
Ion Ratio	Lower	Upper	
78	100		
77	19.3	19.4	29.0#
50	26.1	17.4	26.2

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#44

2,2,4-Trimethylpentane

Concen: 0.110 ppbv m

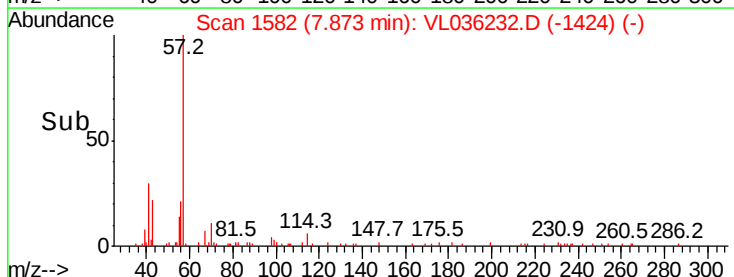
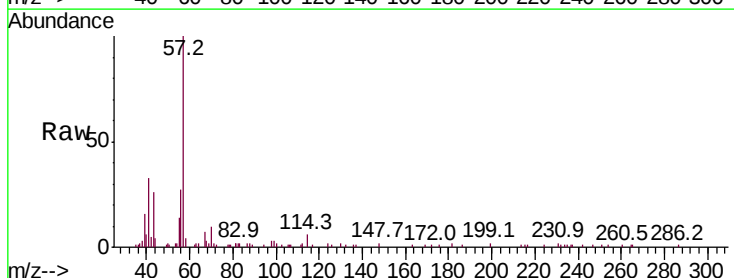
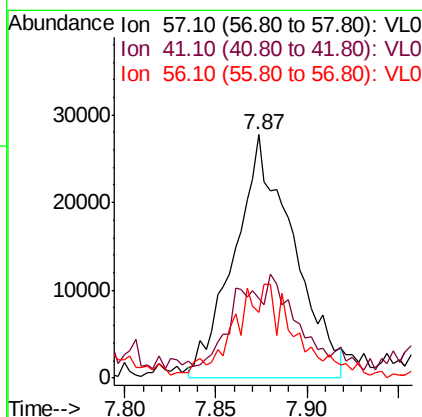
RT: 7.87 min Scan# 1582

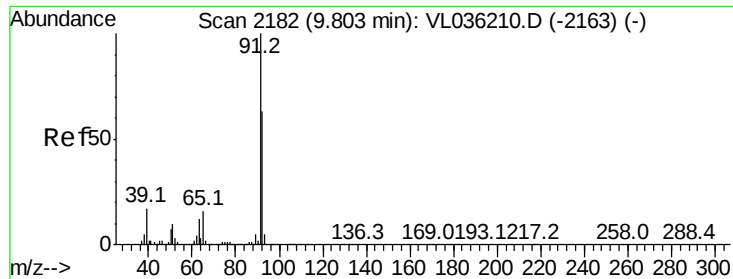
Delta R.T. 0.01 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Tgt Ion:	57	Resp:	62475
Ion Ratio	Lower	Upper	
57	100		
41	0.0	28.5	42.7#
56	0.0	25.5	38.3#





#53

Toluene

Concen: 0.850 ppbv m

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Instrument :

MSVOA_L

ClientSampled :

0121-SS6

Tot Ion: 91 Resp: 293515

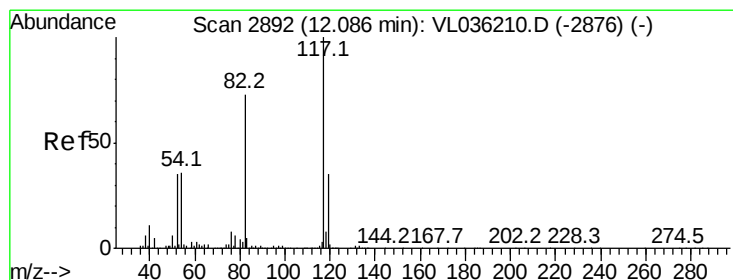
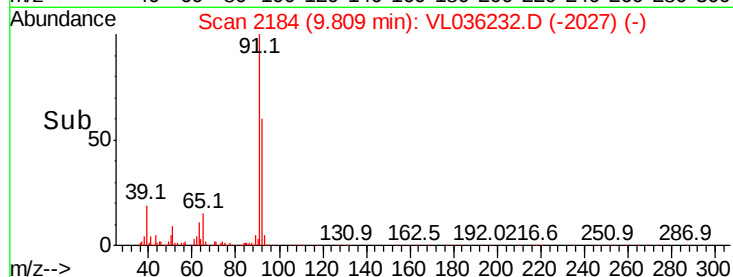
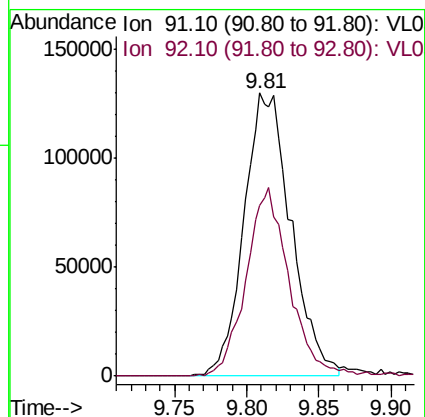
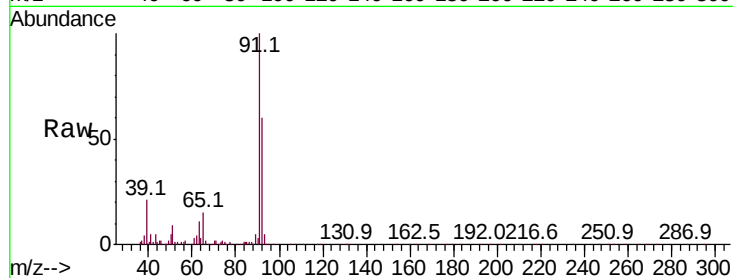
Ion Ratio Lower Upper

91 100

92 61.1 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

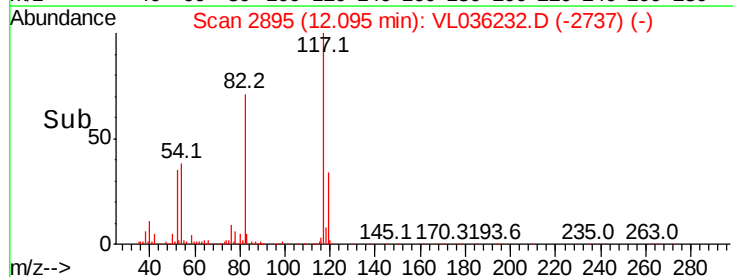
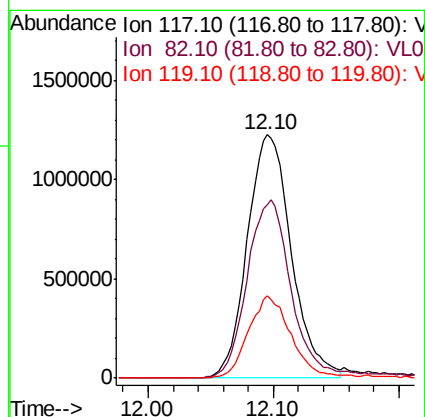
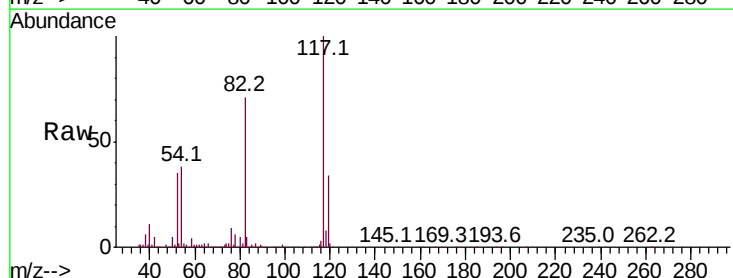
Tgt Ion: 117 Resp: 2986923

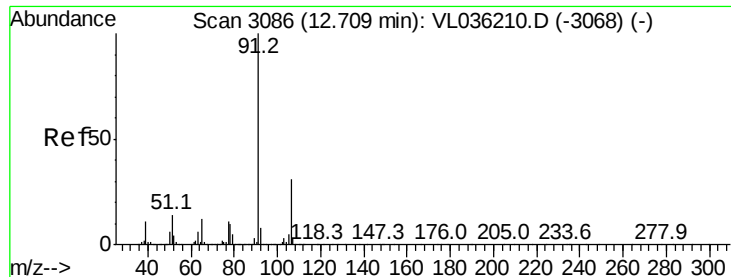
Ion Ratio Lower Upper

117 100

82 76.1 59.7 89.5

119 33.9 28.6 43.0





#58

Ethyl Benzene

Concen: 0.137 ppbv m

RT: 12.73 min Scan# 3091

Delta R.T. 0.02 min

Lab File: VL036232.D

Acq: 13 Jan 2021 19:35

Instrument :

MSVOA_L

ClientSampleId :

0121-SS6

Tot Ion: 91 Resp: 60539

Ion Ratio Lower Upper

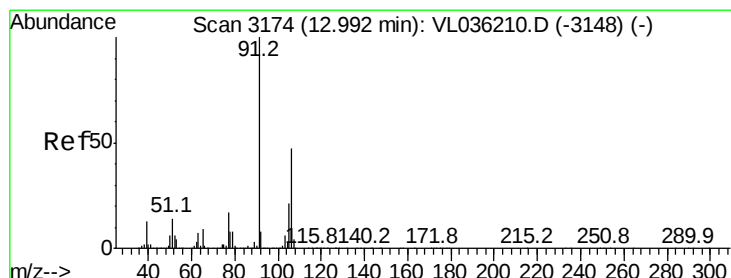
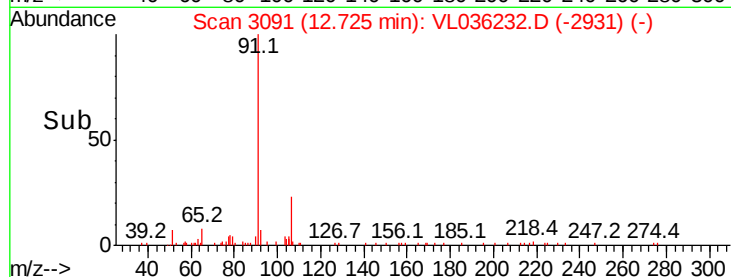
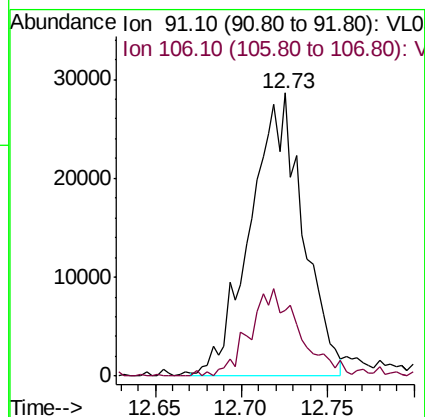
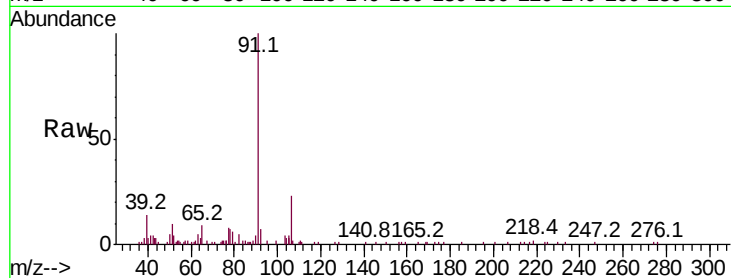
91 100

106 23.3 24.8 37.2#

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1/18/2021 3:49:46 PM



#59

m/p-Xylene

Concen: 0.439 ppbv m

RT: 12.98 min Scan# 3169

Delta R.T. -0.02 min

Lab File: VL036232.D

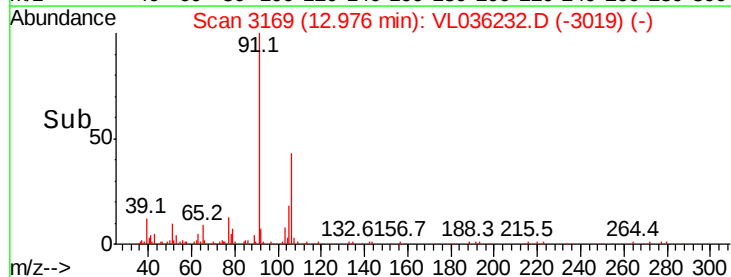
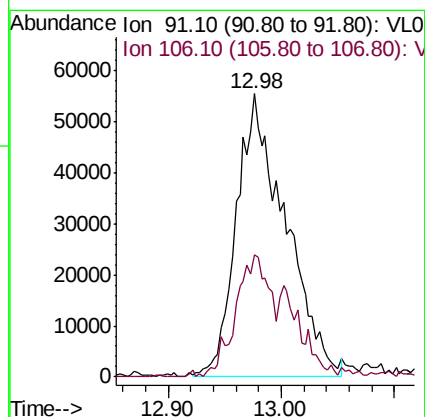
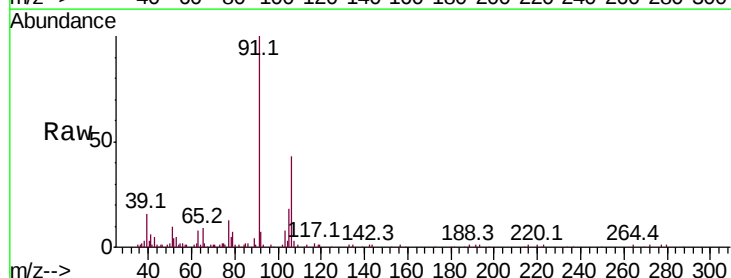
Acq: 13 Jan 2021 19:35

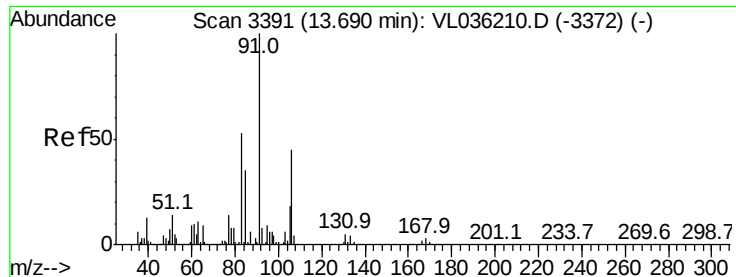
Tgt Ion: 91 Resp: 167117

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#





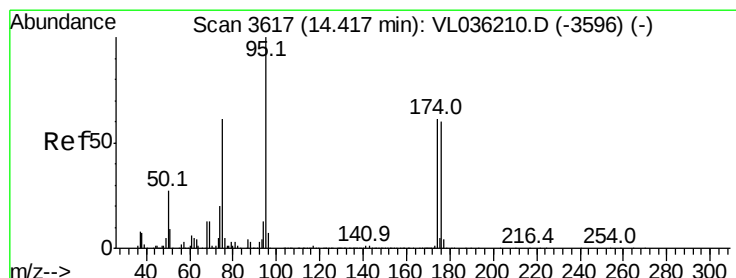
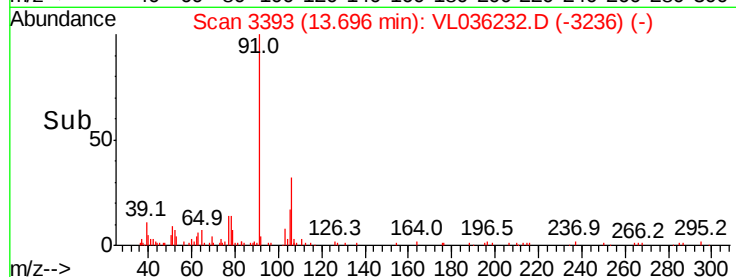
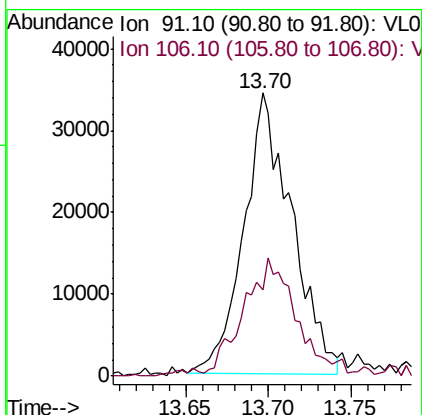
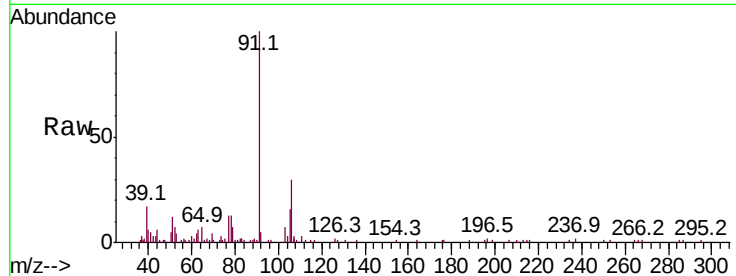
#60
o-Xylene
Concen: 0.188 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

Instrument :
MSVOA_L
ClientSampleId :
0121-SS6

Tot Ion	Ratio	Lower	Upper
91	100		
106	49.9	21.9	65.8

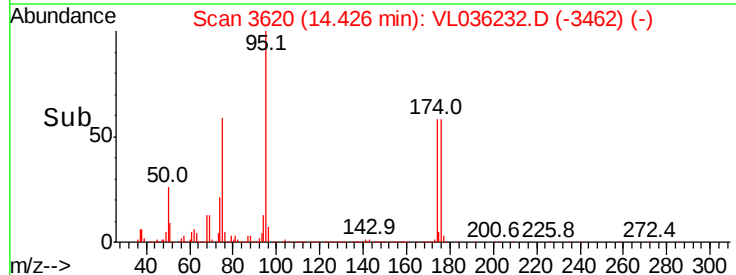
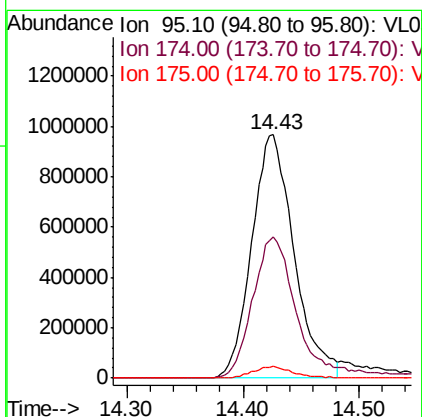
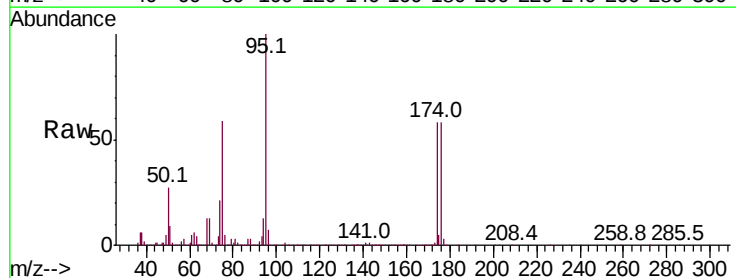
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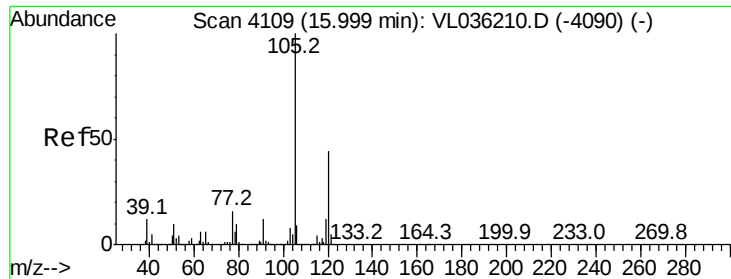
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1/18/2021 3:49:46 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.930 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.01 min
Lab File: VL036232.D
Acq: 13 Jan 2021 19:35

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





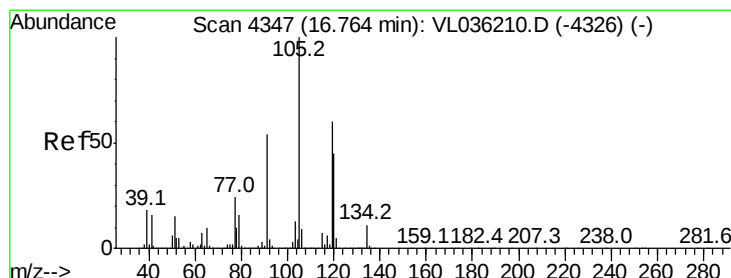
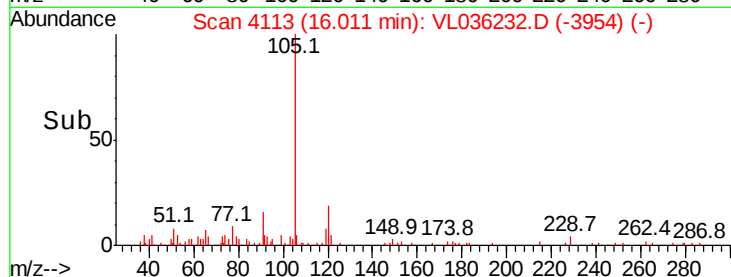
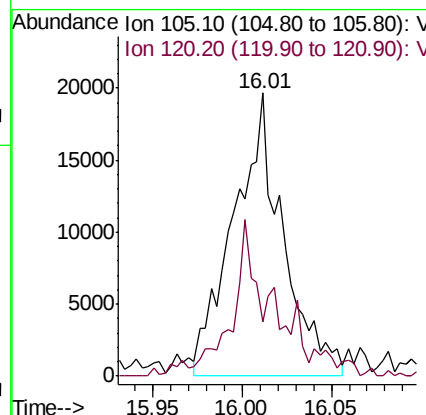
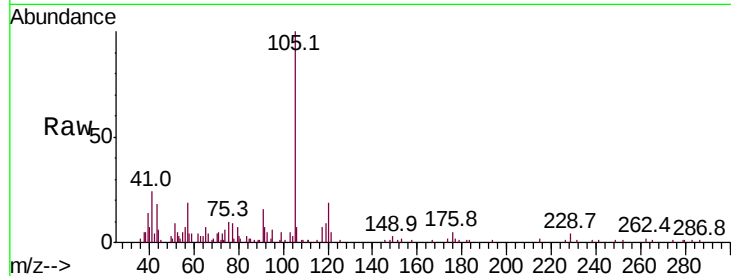
#73
 1,3,5-Trimethylbenzene
 Concen: 0.096 ppbv m
 RT: 16.01 min Scan# 4113
 Delta R.T. 0.01 min
 Lab File: VL036232.D
 Acq: 13 Jan 2021 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS6

Tot Ion:105 Resp: 37915
 Ion Ratio Lower Upper
 105 100
 120 19.1 35.5 53.3#

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.338 ppbv m
 RT: 16.78 min Scan# 4351
 Delta R.T. 0.01 min
 Lab File: VL036232.D
 Acq: 13 Jan 2021 19:35

Tgt Ion:105 Resp: 136882
 Ion Ratio Lower Upper
 105 100
 120 32.0 36.2 54.2#
 91 9.8 43.3 64.9#
 77 19.8 19.1 28.7

