

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036159.D
 Acq On : 11 Dec 2020 11:20
 Operator : SY/AP
 Sample : L4948-15
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3B

Manual Integrations
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 12/15/2020 7:23:27 PM

Quant Time: Dec 14 22:06:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1310458	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2544357	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2301381	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2016307	11.03	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	40302	0.264	ppbv	93
3) Chlorodifluoromethane	2.95	51	180735	1.209	ppbv #	74
4) Chloromethane	3.12	50	35185m	0.479	ppbv	
9) Propene	3.01	41	161627m	2.158	ppbv	
10) Heptane	8.11	43	272247	1.423	ppbv	96
11) Trichlorofluoromethane	3.94	101	73635	0.410	ppbv	98
13) Ethanol	3.59	45	551123	53.376	ppbv	85
15) Acetone	3.83	43	2276722	14.456	ppbv	95
19) Isopropyl Alcohol	3.96	45	210715m	2.189	ppbv	
20) Methylene Chloride	4.33	84	183105	2.837	ppbv	99
26) Hexane	5.67	57	170762	1.206	ppbv #	45
30) Cyclohexane	7.11	84	651795	6.266	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	152312m	0.794	ppbv	
34) 2-Butanone	5.24	43	177825	1.054	ppbv	99
36) Benzene	6.88	78	127887	0.593	ppbv	94
52) Tetrachloroethene	11.21	164	1075559	13.779	ppbv	95
53) Toluene	9.79	91	243064	1.004	ppbv	97
58) Ethyl Benzene	12.70	91	625408	1.983	ppbv	99
59) m/p-Xylene	12.95	91	2635913	9.923	ppbv	99
60) o-Xylene	13.68	91	1015131	4.056	ppbv	97
62) Isopropylbenzene	14.66	105	71129m	0.192	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	28686m	0.111	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	118923m	0.458	ppbv	

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

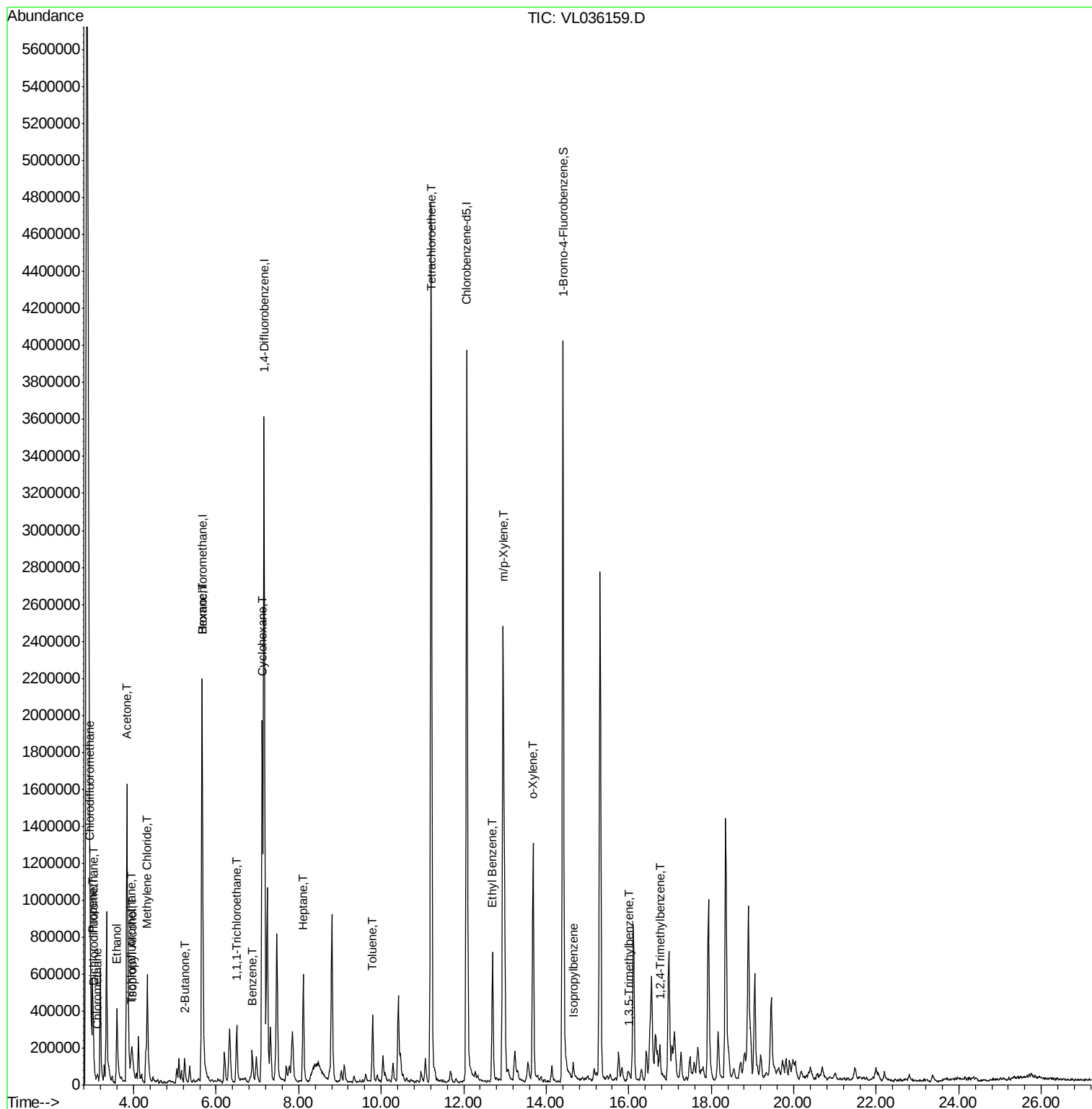
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121020\
Data File : VL036159.D
Acq On : 11 Dec 2020 11:20
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

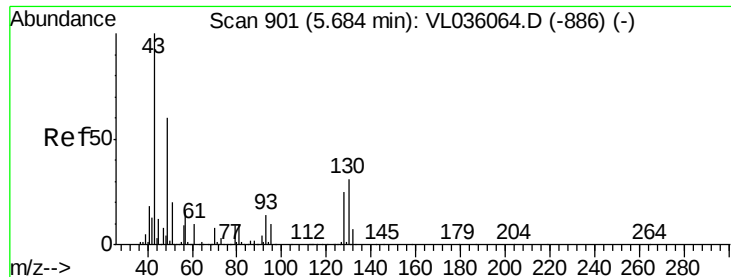
Instrument :
MSVOA_L
ClientSampleId :
SS-3B

Manual Integrations
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Quant Time: Dec 14 22:06:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

ClientSampleId :

SS-3B

Tot Ion: 49 Resp: 1310458

Ion Ratio Lower Upper

49 100

128 34.8 21.1 63.1

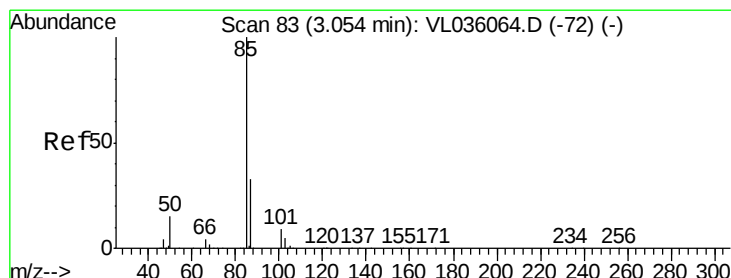
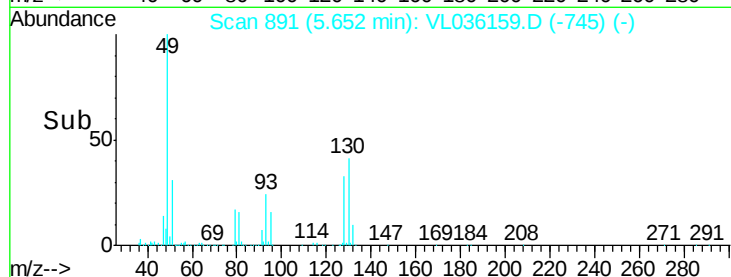
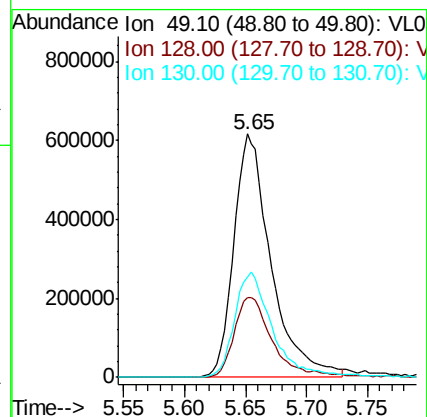
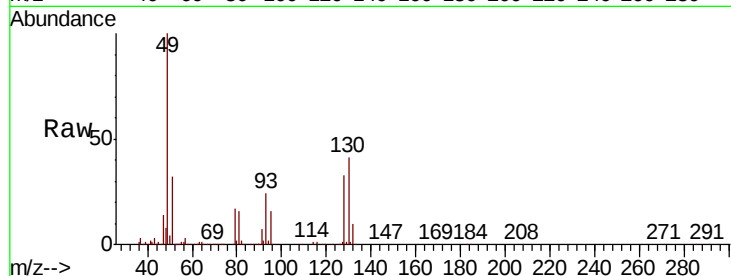
130 44.9 27.1 81.3

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#2

Dichlorodifluoromethane

Concen: 0.264 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036159.D

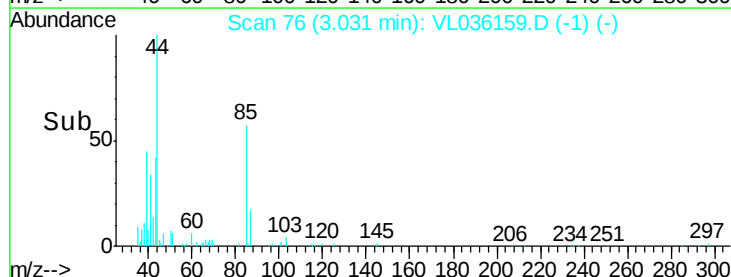
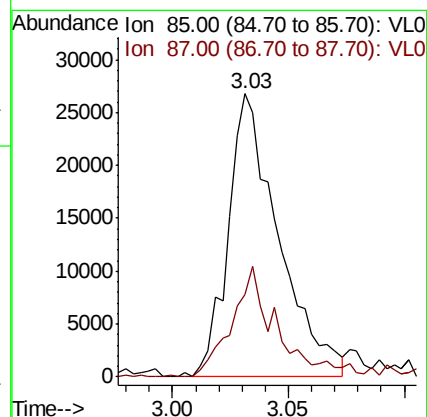
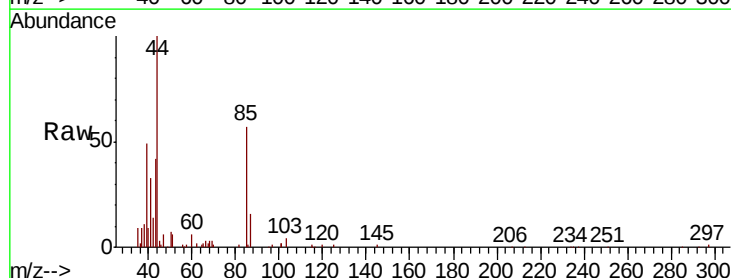
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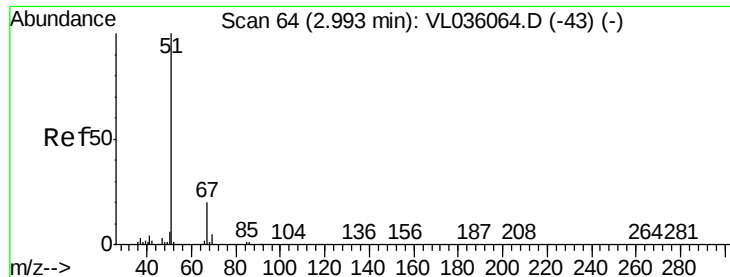
Tgt Ion: 85 Resp: 40302

Ion Ratio Lower Upper

85 100

87 29.0 26.5 39.7





#3

Chlorodifluoromethane

Concen: 1.209 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

ClientSampleId :

SS-3B

Tot Ion: 51 Resp: 180735

Ion Ratio Lower Upper

51 100

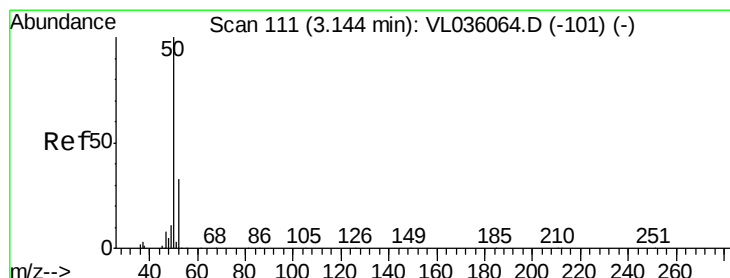
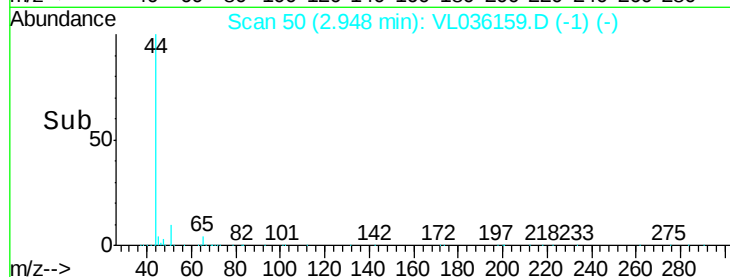
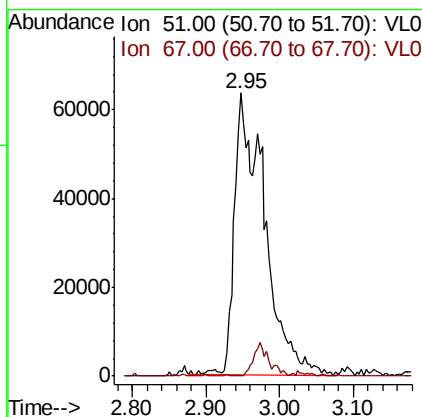
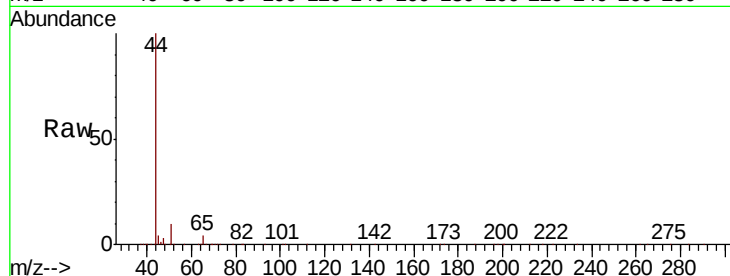
67 6.3 14.3 21.5#

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#4

Chloromethane

Concen: 0.479 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036159.D

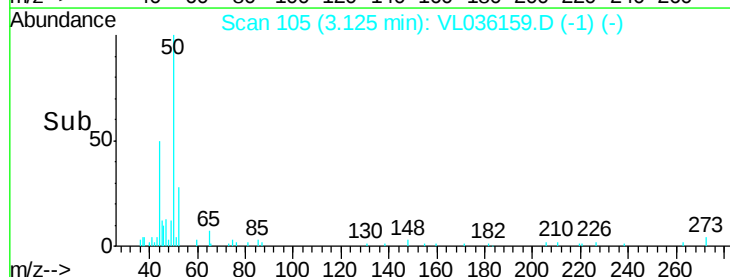
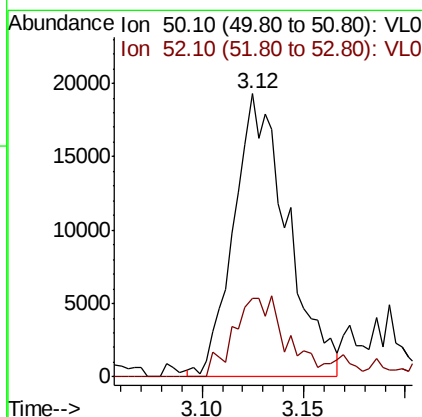
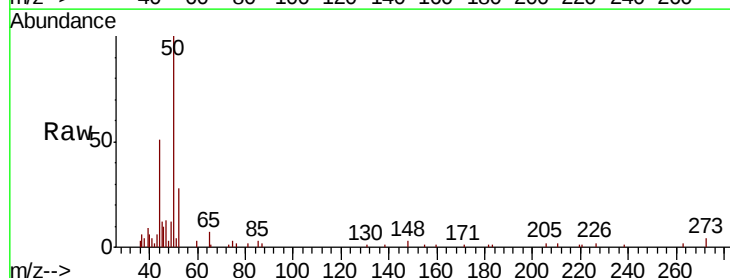
Acq: 11 Dec 2020 11:20

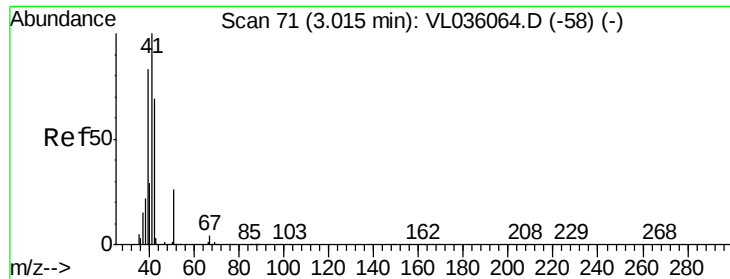
Tgt Ion: 50 Resp: 35185

Ion Ratio Lower Upper

50 100

52 27.7 26.1 39.1





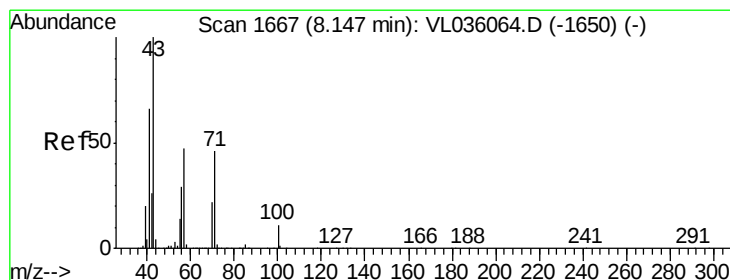
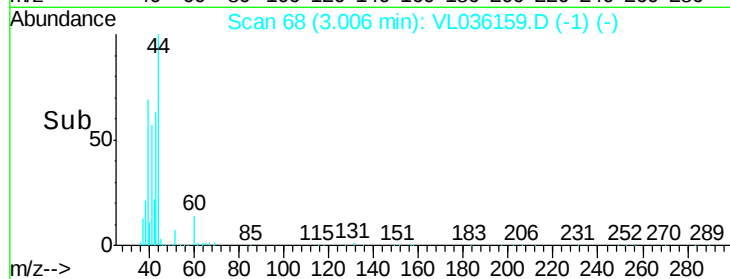
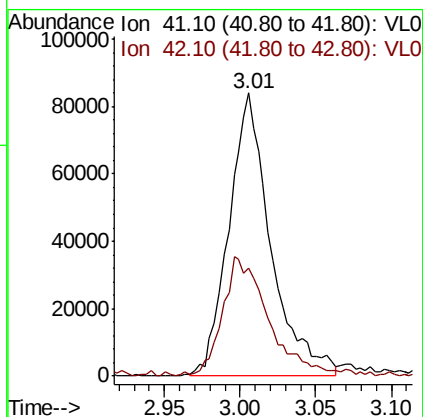
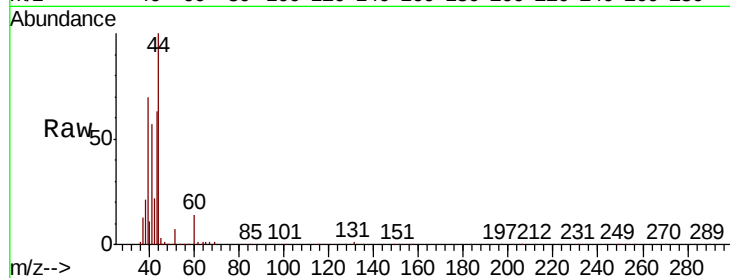
#9
 Propene
 Concen: 2.158 ppbv m
 RT: 3.01 min Scan# 68
 Delta R.T. -0.01 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3B

Tot Ion: 41 Resp: 161627
 Ion Ratio Lower Upper
 41 100
 42 85.2 57.0 85.6

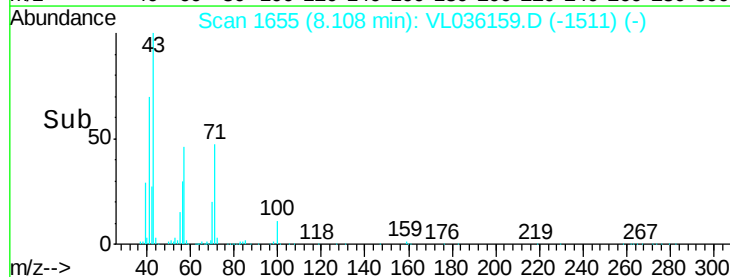
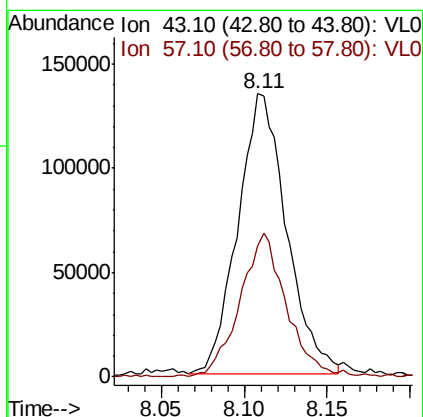
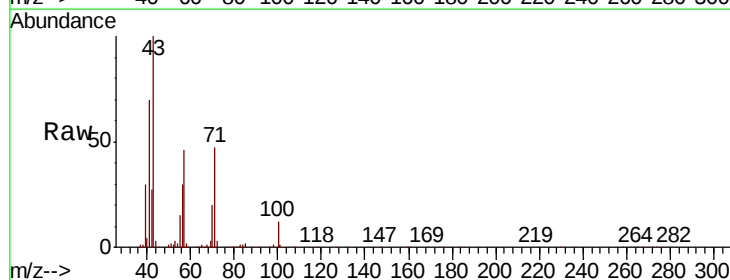
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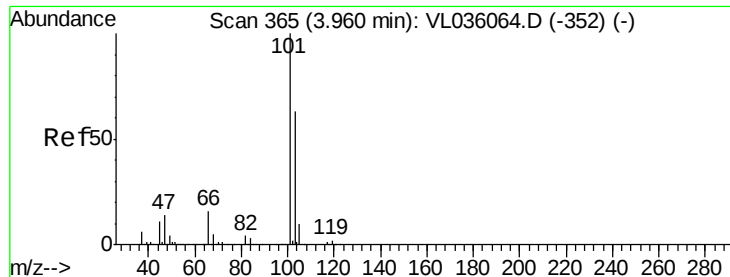
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#10
 Heptane
 Concen: 1.423 ppbv
 RT: 8.11 min Scan# 1655
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion: 43 Resp: 272247
 Ion Ratio Lower Upper
 43 100
 57 49.8 37.9 56.9





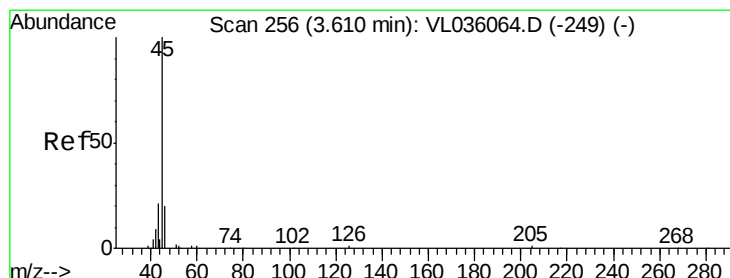
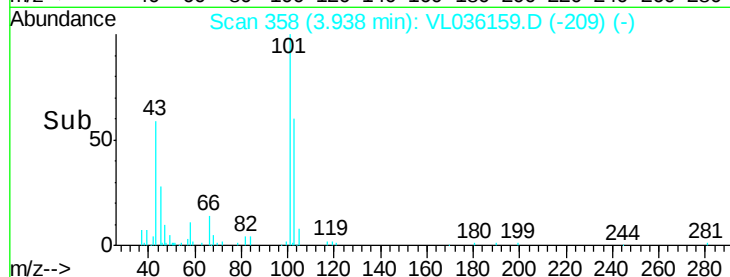
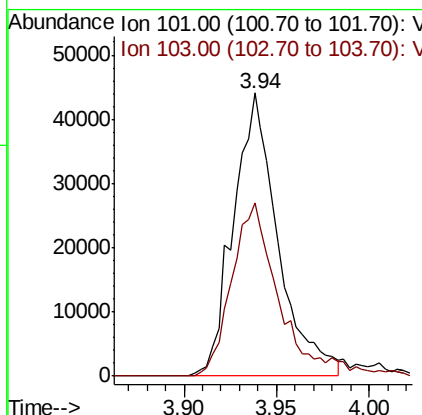
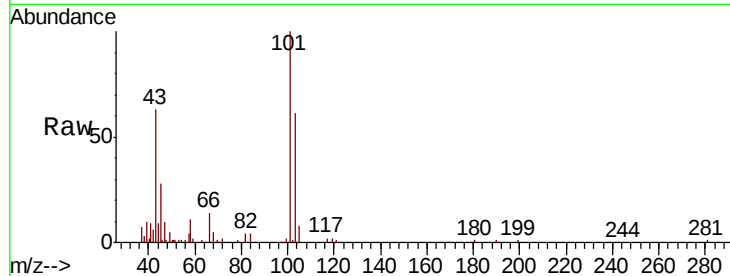
#11
Trichlorofluoromethane
Concen: 0.410 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.02 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Instrument :
MSVOA_L
ClientSampleId :
SS-3B

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	61.4	50.3	75.5	

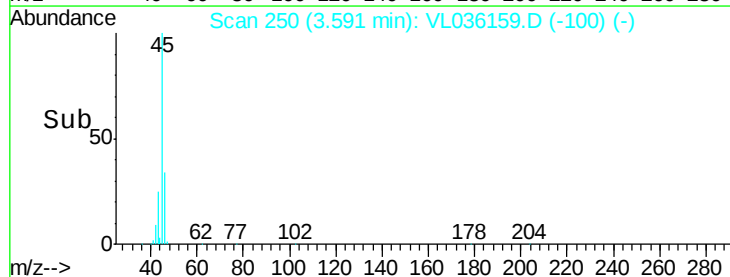
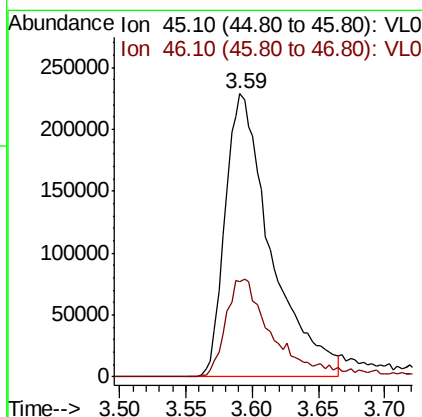
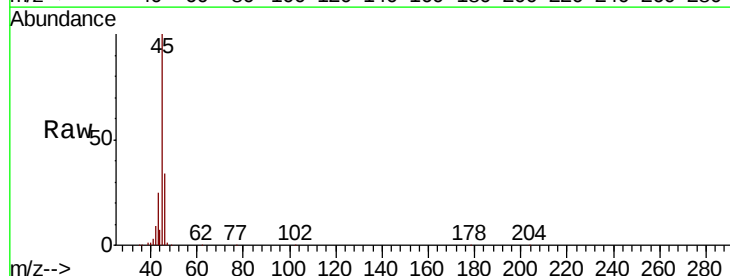
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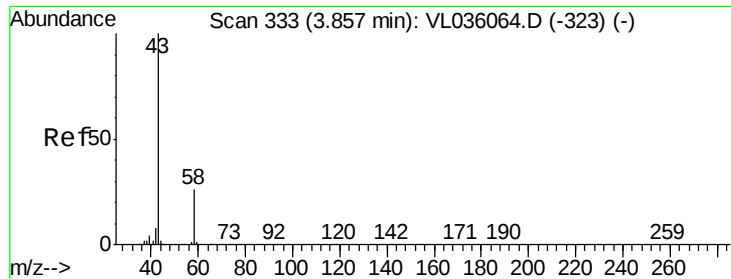
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#13
Ethanol
Concen: 53.376 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.5	19.0	75.8	





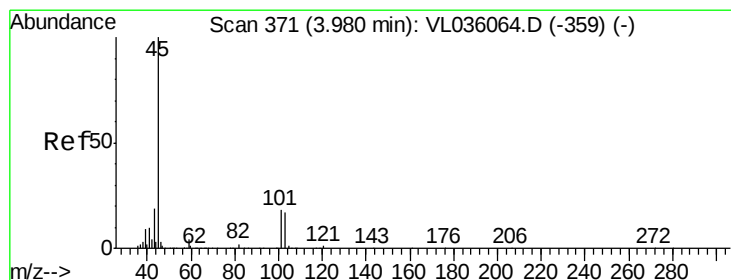
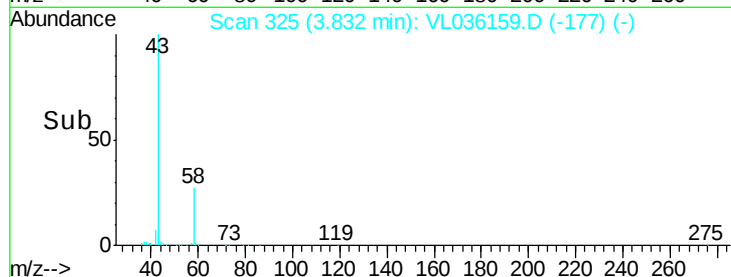
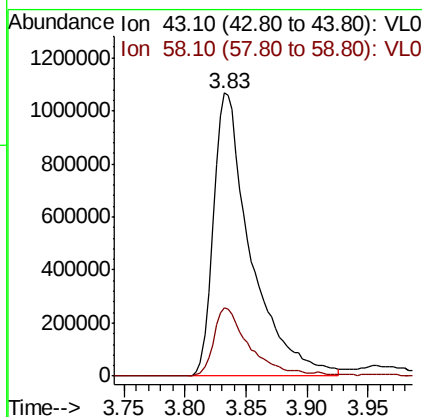
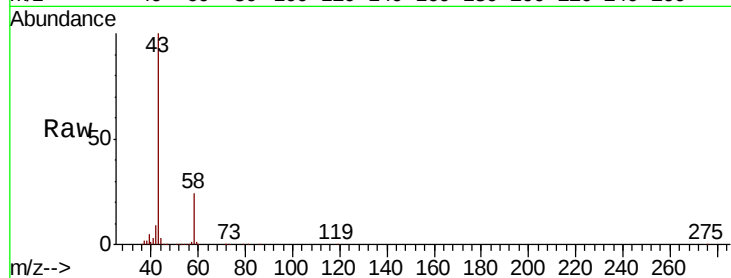
#15
Acetone
Concen: 14.456 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.03 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Instrument :
MSVOA_L
ClientSampleId :
SS-3B

Tot Ion: 43 Resp: 2276722
Ion Ratio Lower Upper
43 100
58 23.7 20.9 31.3

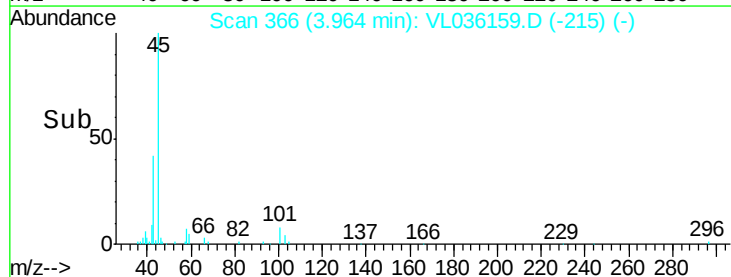
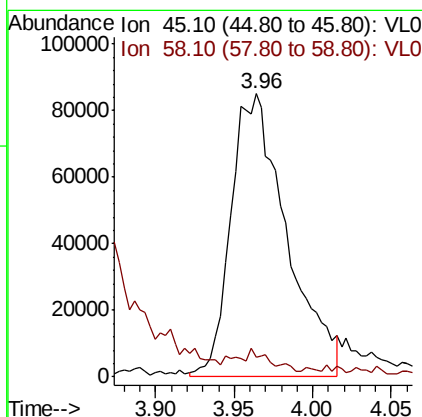
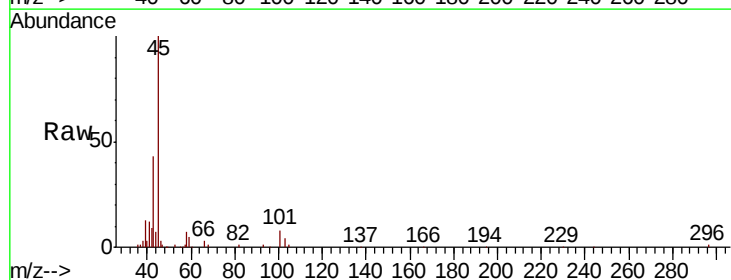
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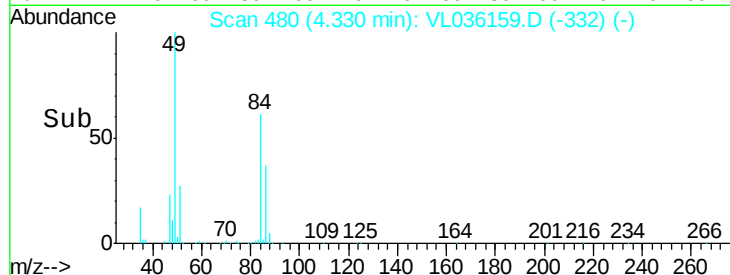
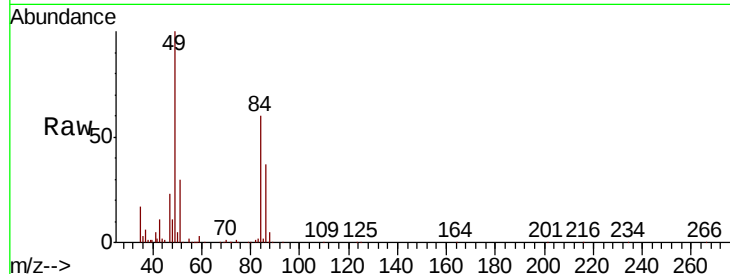
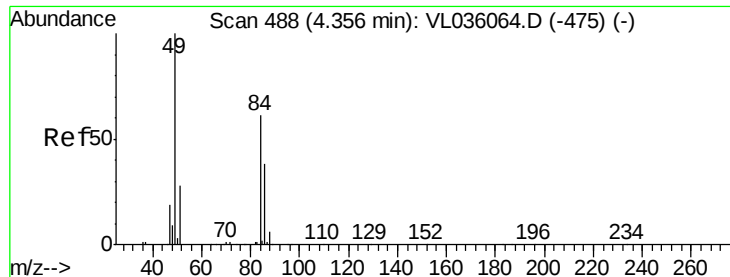
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#19
Isopropyl Alcohol
Concen: 2.189 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. -0.02 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion: 45 Resp: 210715
Ion Ratio Lower Upper
45 100
58 0.0 0.0 0.0





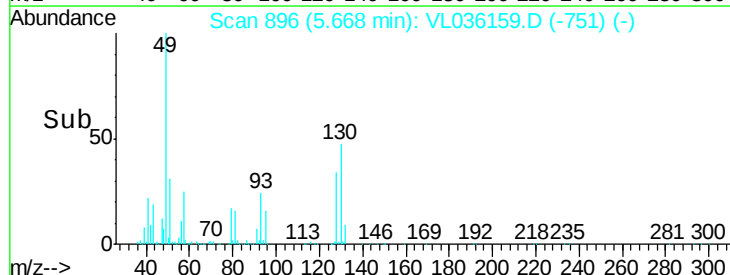
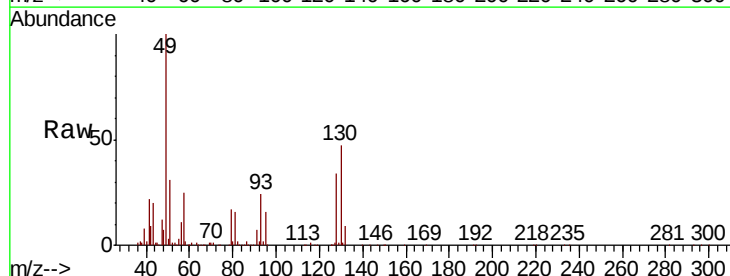
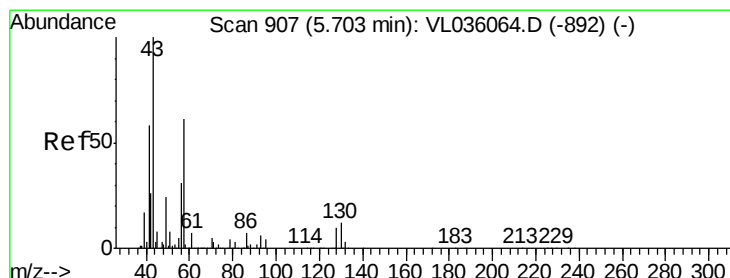
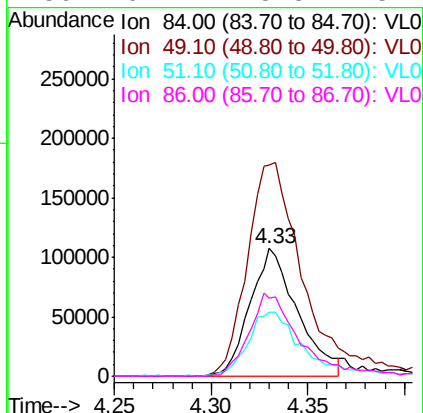
#20
Methvlene Chloride
Concen: 2.837 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.03 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	165.3	133.0	199.4	
51	49.8	38.9	58.3	
86	61.1	48.8	73.2	

Instrument :
MSVOA_L
ClientSampleId :
SS-3B

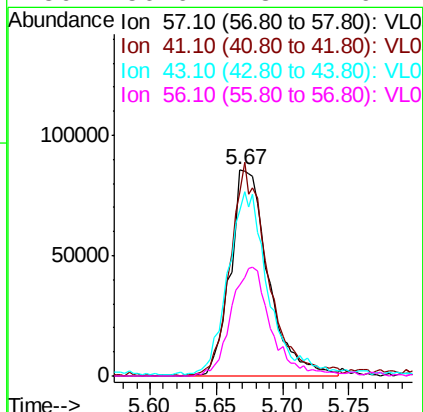
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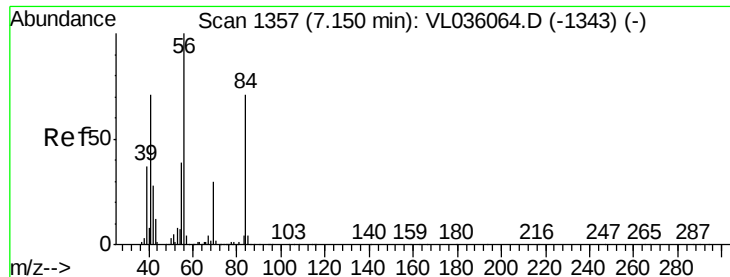
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#26
Hexane
Concen: 1.206 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	103.7	82.9	124.3	
43	96.3	199.9	299.9	
56	56.6	43.1	64.7	





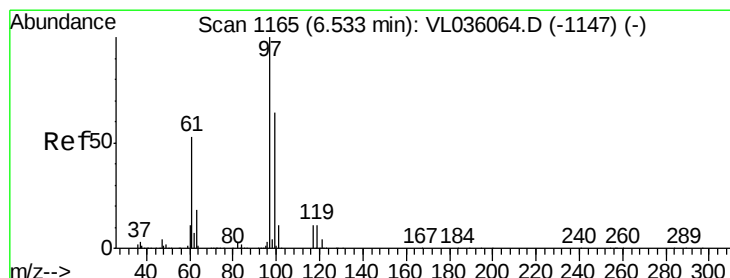
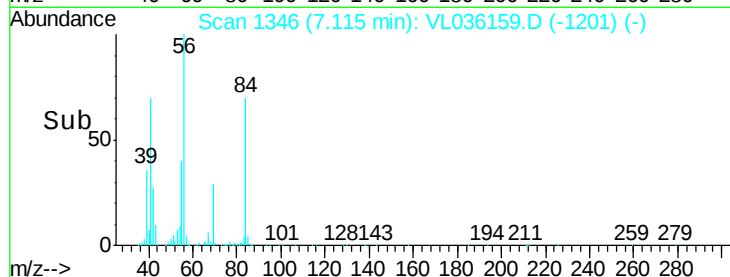
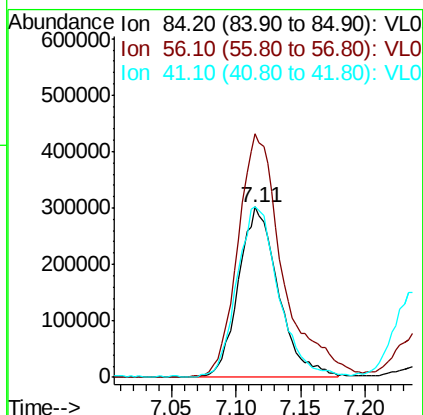
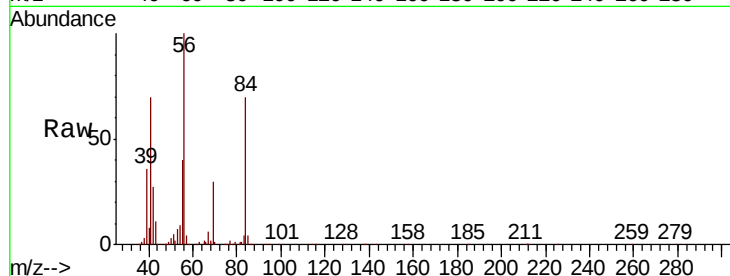
#30
Cyclohexane
Concen: 6.266 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Instrument :
MSVOA_L
ClientSampled :
SS-3B

Tot Ion	Ratio	Lower	Upper
84	100		
56	160.9	128.0	192.0
41	104.7	81.3	121.9

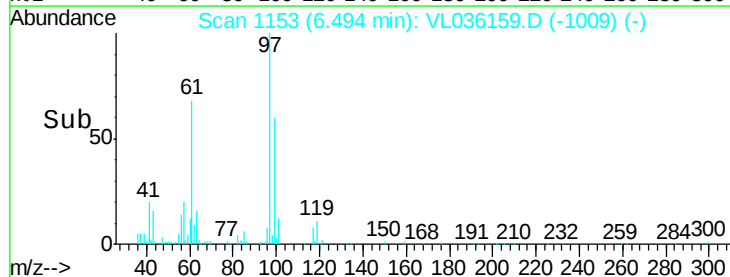
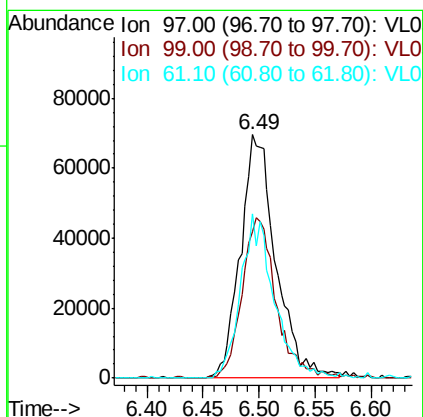
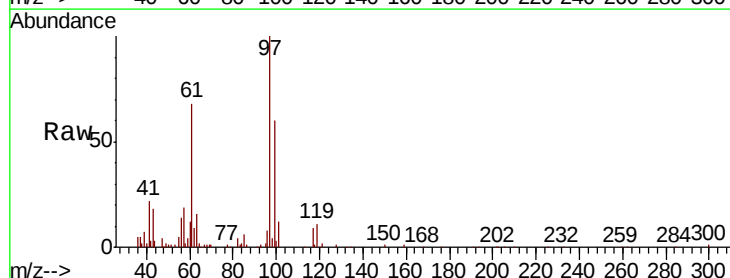
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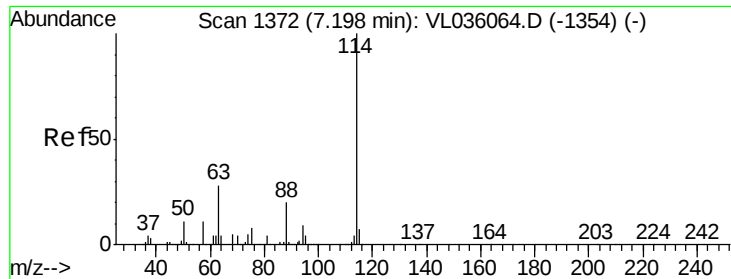
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#32
1,1,1-Trichloroethane
Concen: 0.794 ppbv m
RT: 6.49 min Scan# 1153
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.4	78.6
61	64.0	43.4	65.0





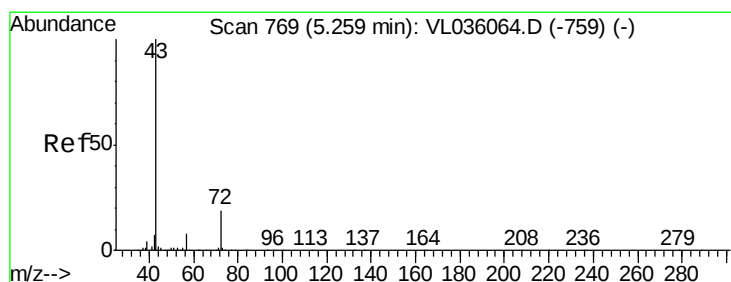
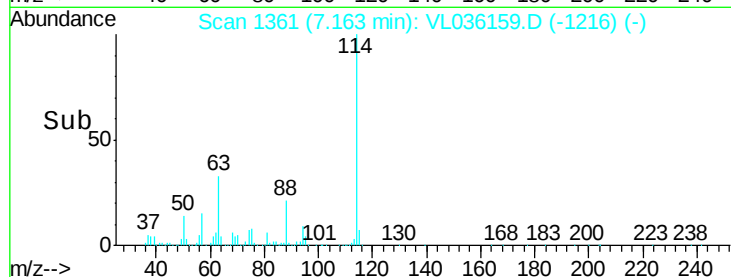
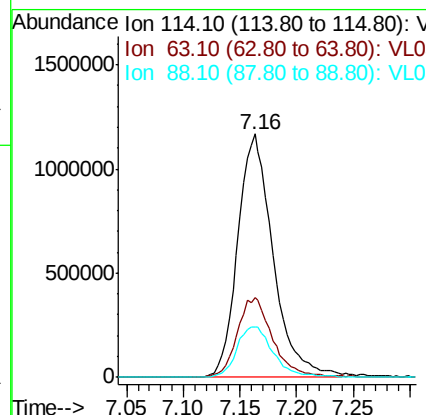
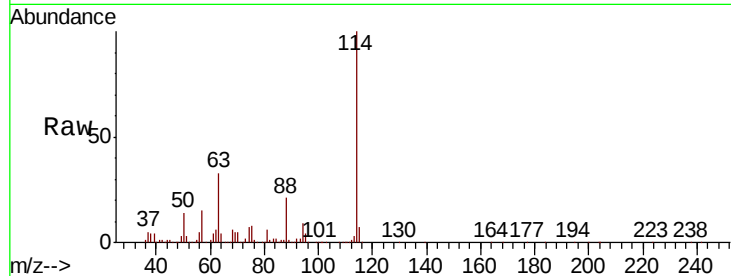
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3B

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.5	23.6	35.4
88	21.6	15.8	23.6

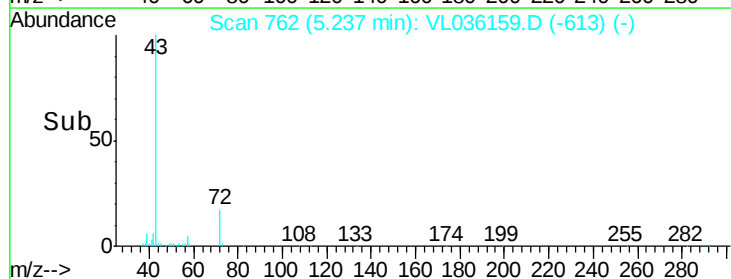
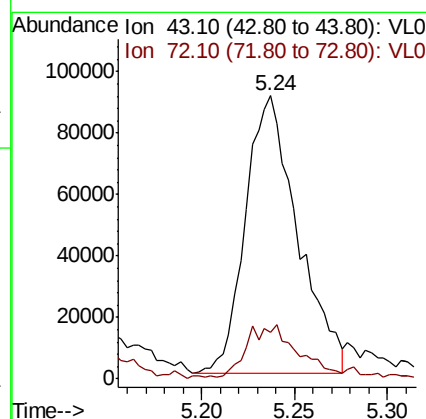
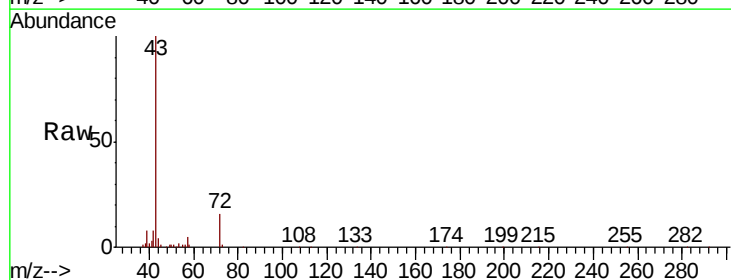
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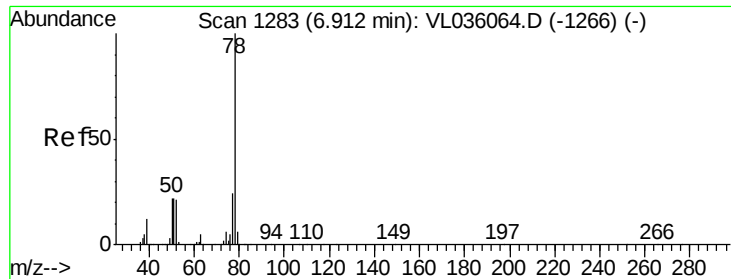
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#34
 2-Butanone
 Concen: 1.054 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.5	24.7





#36

Benzene

Concen: 0.593 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

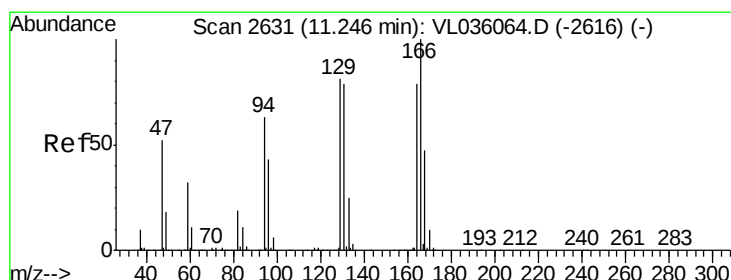
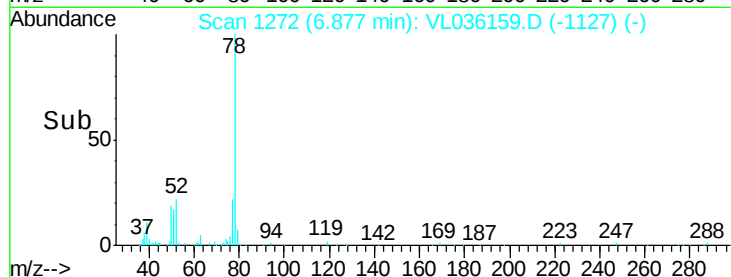
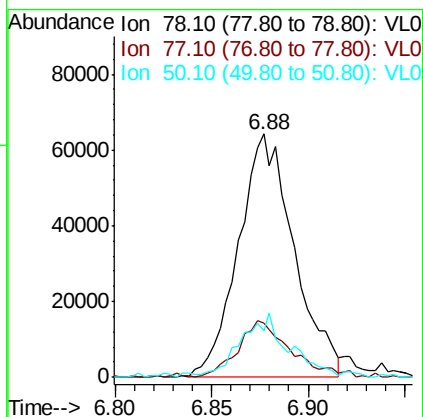
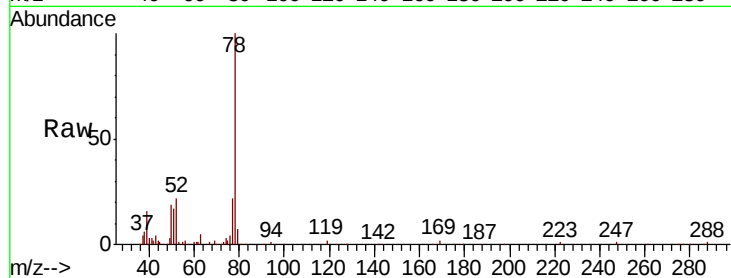
ClientSampleId :

SS-3B

Tot Ion:	78	Resp:	127887
Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.4	29.2
50	18.4	17.8	26.8

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#52

Tetrachloroethene

Concen: 13.779 ppbv

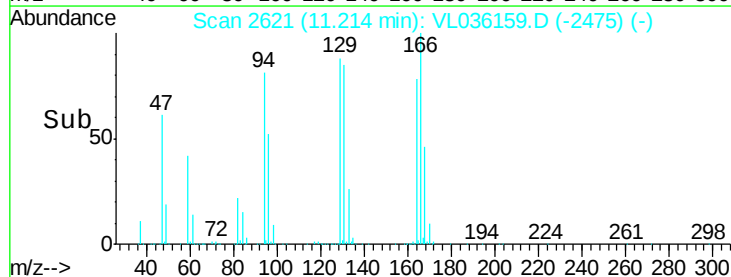
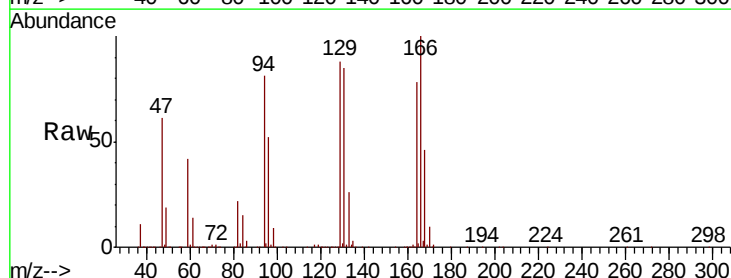
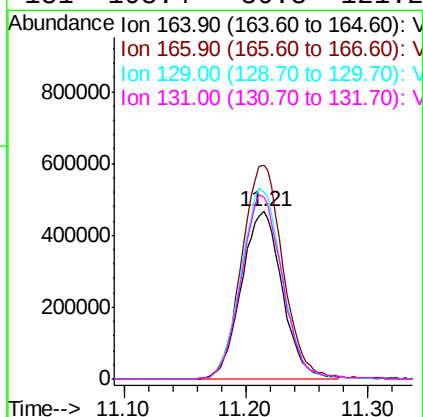
RT: 11.21 min Scan# 2621

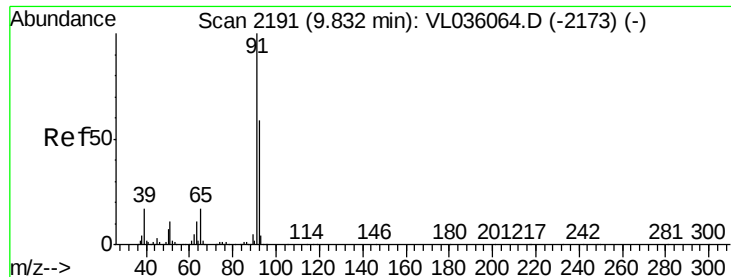
Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion:	164	Resp:	1075559
Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.9	152.9
129	111.8	82.1	123.1
131	108.4	80.8	121.2





#53

Toluene

Concen: 1.004 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

ClientSampleId :

SS-3B

Tot Ion: 91 Resp: 243064

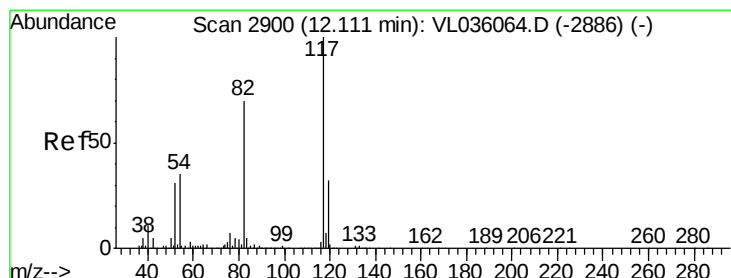
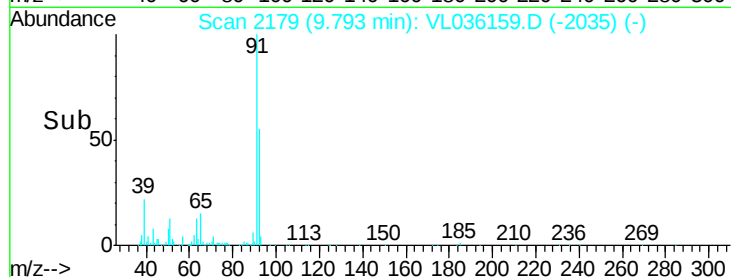
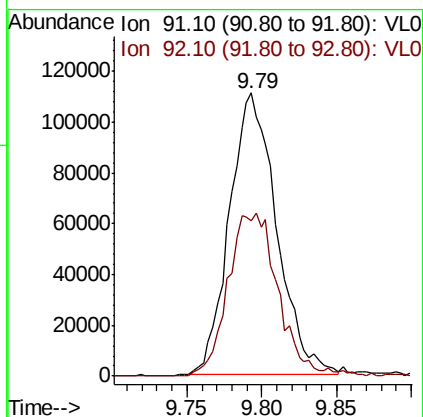
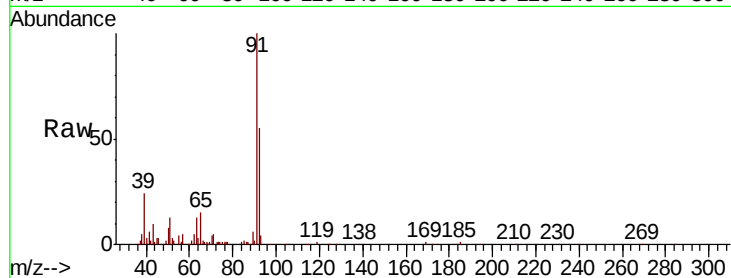
Ion Ratio Lower Upper

91 100

92 62.1 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

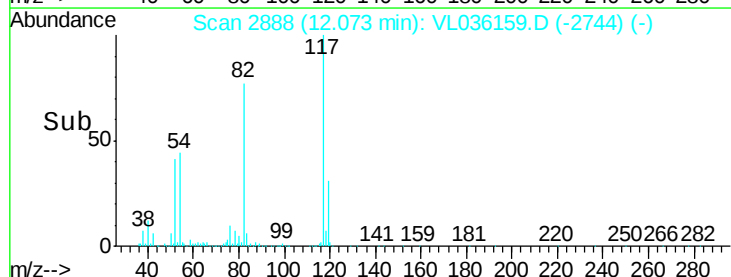
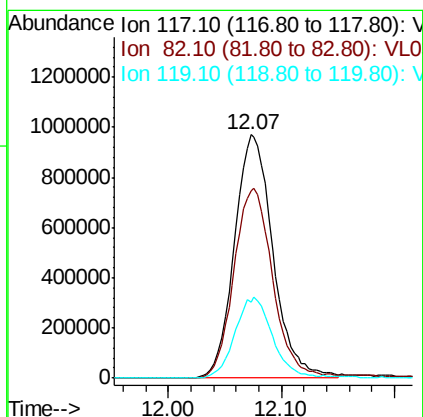
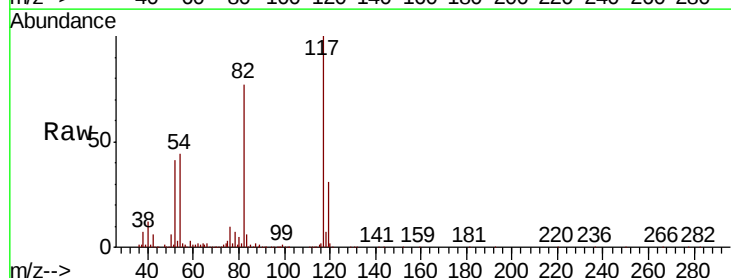
Tgt Ion: 117 Resp: 2301381

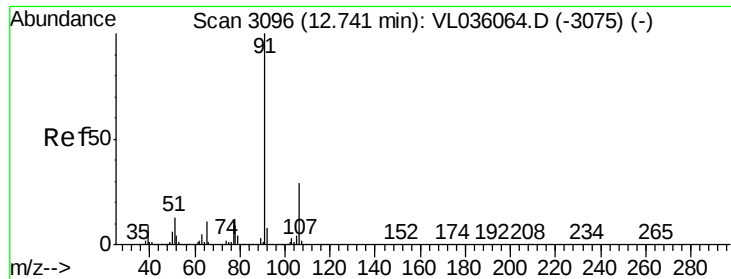
Ion Ratio Lower Upper

117 100

82 80.4 0.0 0.0#

119 33.0 0.0 0.0#





#58

Ethyl Benzene

Concen: 1.983 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

ClientSampleId :

SS-3B

Tot Ion: 91 Resp: 625408

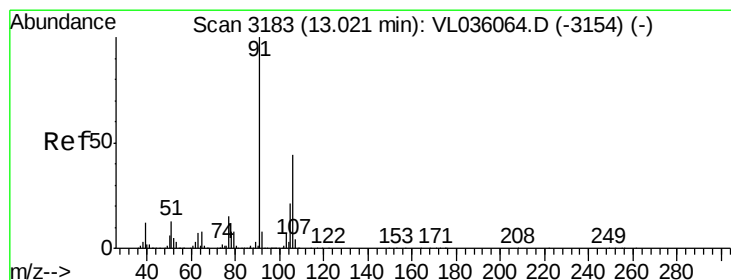
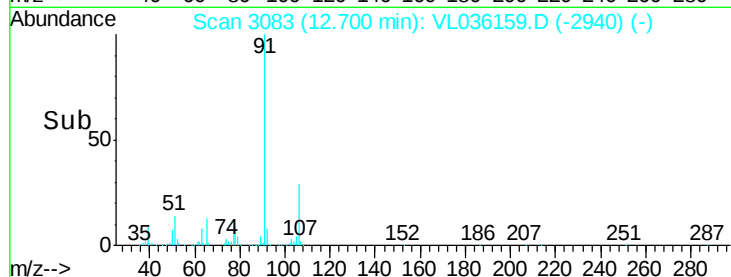
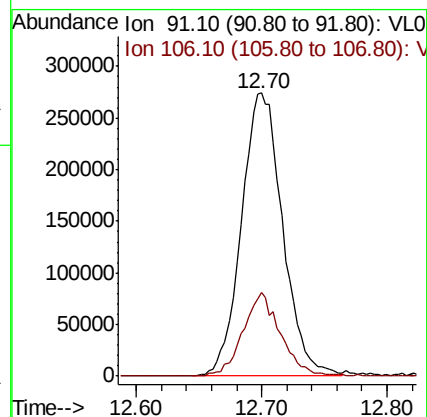
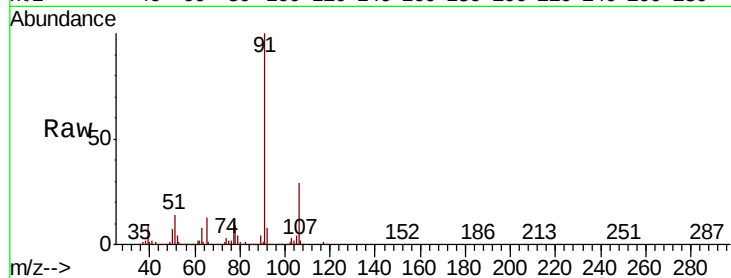
Ion Ratio Lower Upper

91 100

106 29.2 23.0 34.4

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#59

m/p-Xylene

Concen: 9.923 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.07 min

Lab File: VL036159.D

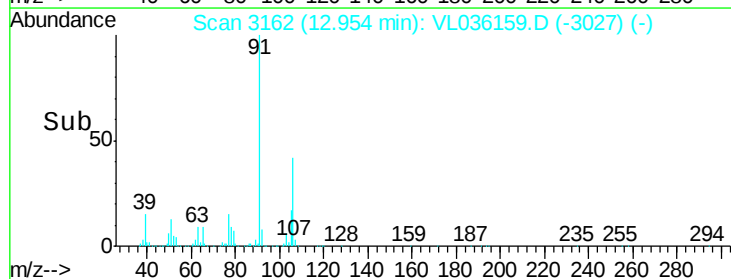
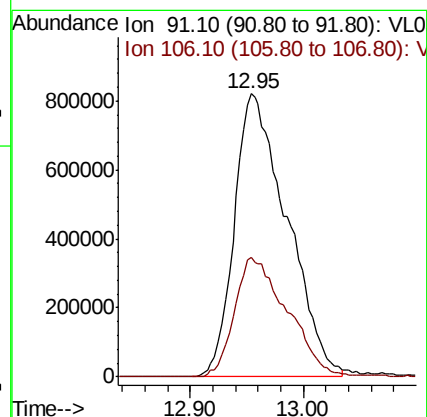
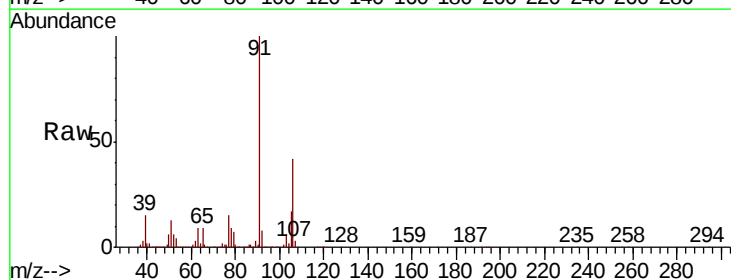
Acq: 11 Dec 2020 11:20

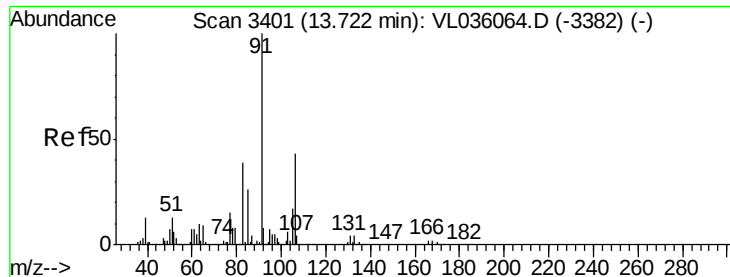
Tgt Ion: 91 Resp: 2635913

Ion Ratio Lower Upper

91 100

106 42.9 33.6 50.4





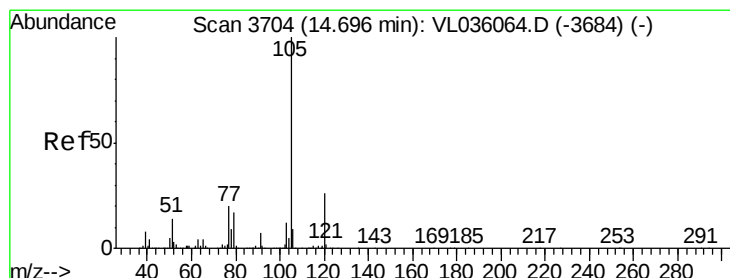
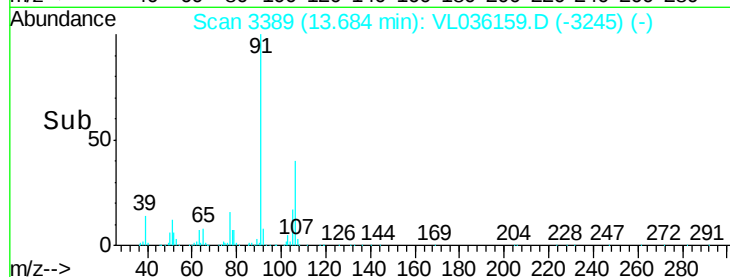
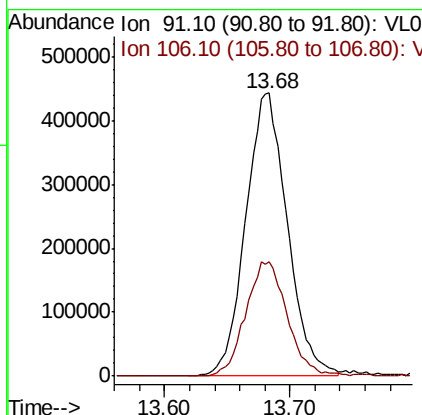
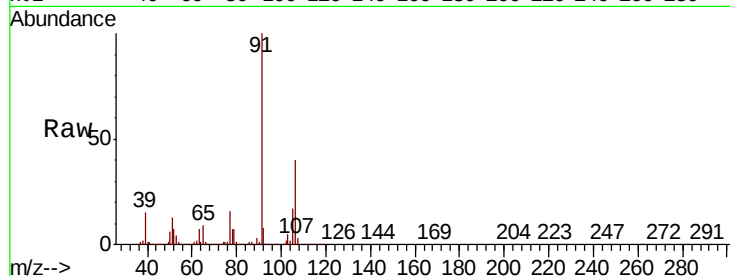
#60
o-Xylene
Concen: 4.056 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Instrument :
MSVOA_L
ClientSampleId :
SS-3B

Tot Ion: 91 Resp: 1015131
Ion Ratio Lower Upper
91 100
106 41.1 21.6 64.6

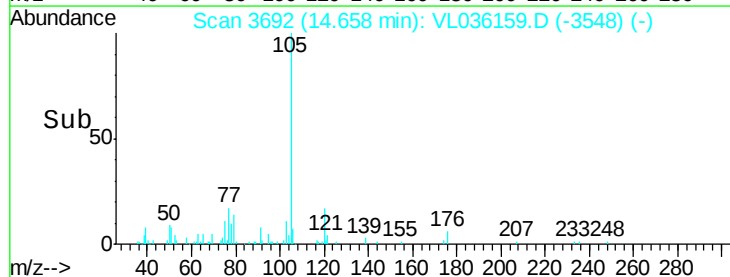
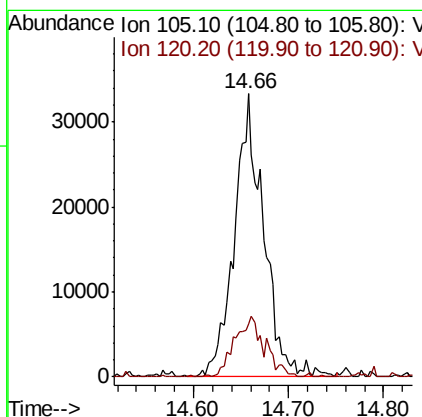
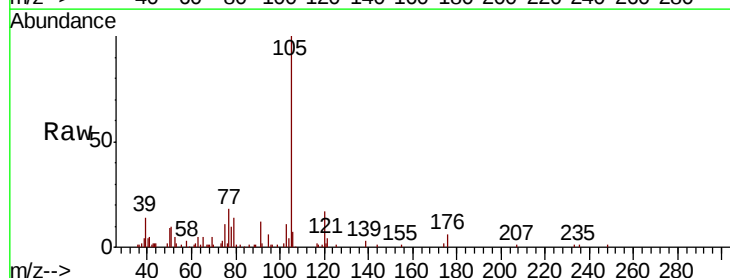
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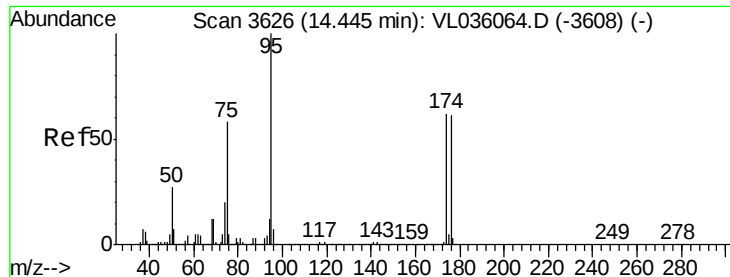
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#62
Isopropylbenzene
Concen: 0.192 ppbv m
RT: 14.66 min Scan# 3692
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion: 105 Resp: 71129
Ion Ratio Lower Upper
105 100
120 22.3 20.1 30.1





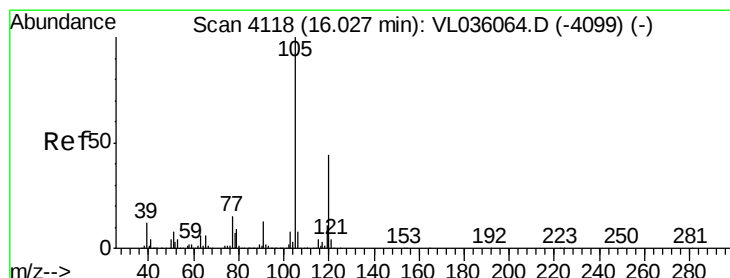
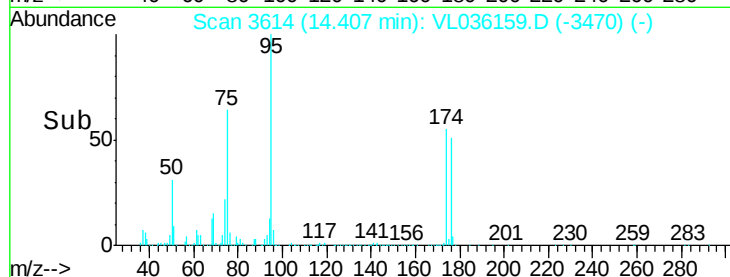
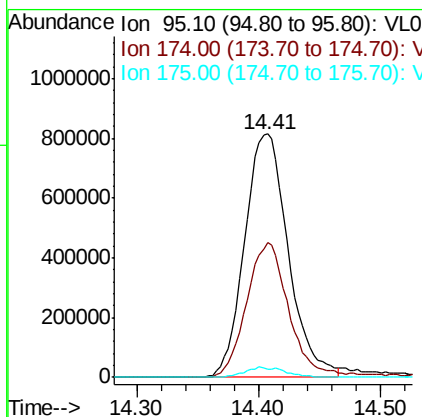
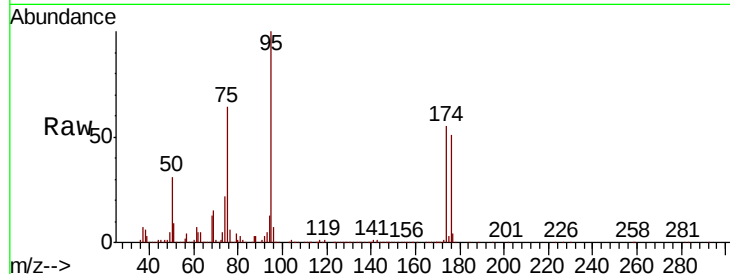
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.034 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3B

Tot Ion: 95 Resp: 2016307
 Ion Ratio Lower Upper
 95 100
 174 56.0 50.7 76.1
 175 4.0 4.0 6.0

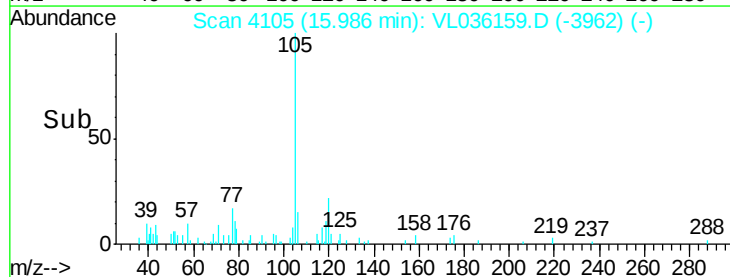
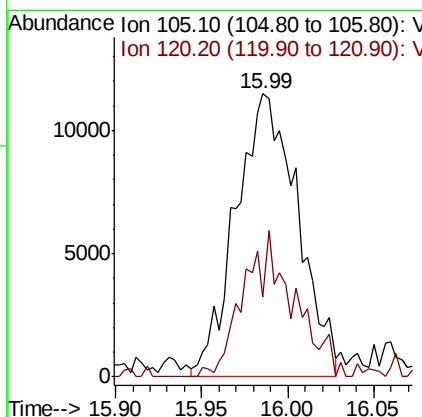
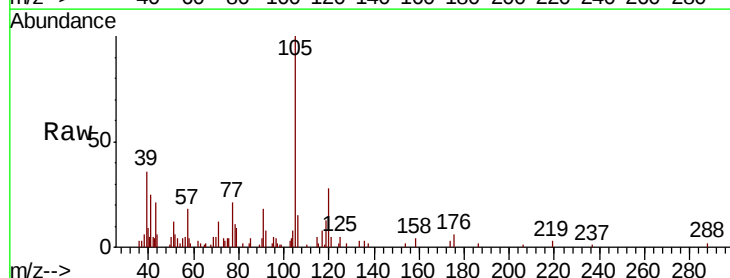
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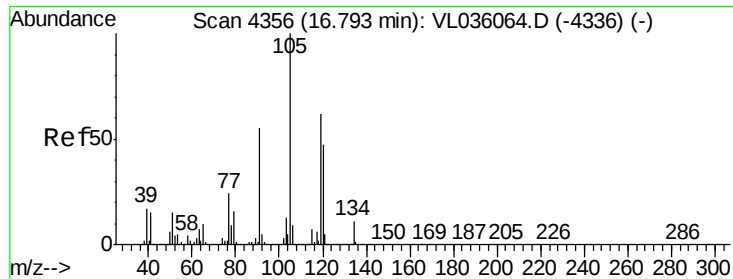
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.111 ppbv m
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion: 105 Resp: 28686
 Ion Ratio Lower Upper
 105 100
 120 28.3 35.4 53.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.458 ppbv m

RT: 16.76 min Scan# 4345

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Instrument :

MSVOA_L

ClientSampleId :

SS-3B

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	34.6	37.4	56.0#
91	12.1	45.6	68.4#
77	17.5	19.4	29.2#

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