

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036221.D
 Acq On : 13 Jan 2021 11:57
 Operator : SY/AP
 Sample : M1066-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS2DL

Quant Time: Jan 13 22:06:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 07:53:51 2021
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1538679	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3287964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2913196	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2483578	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

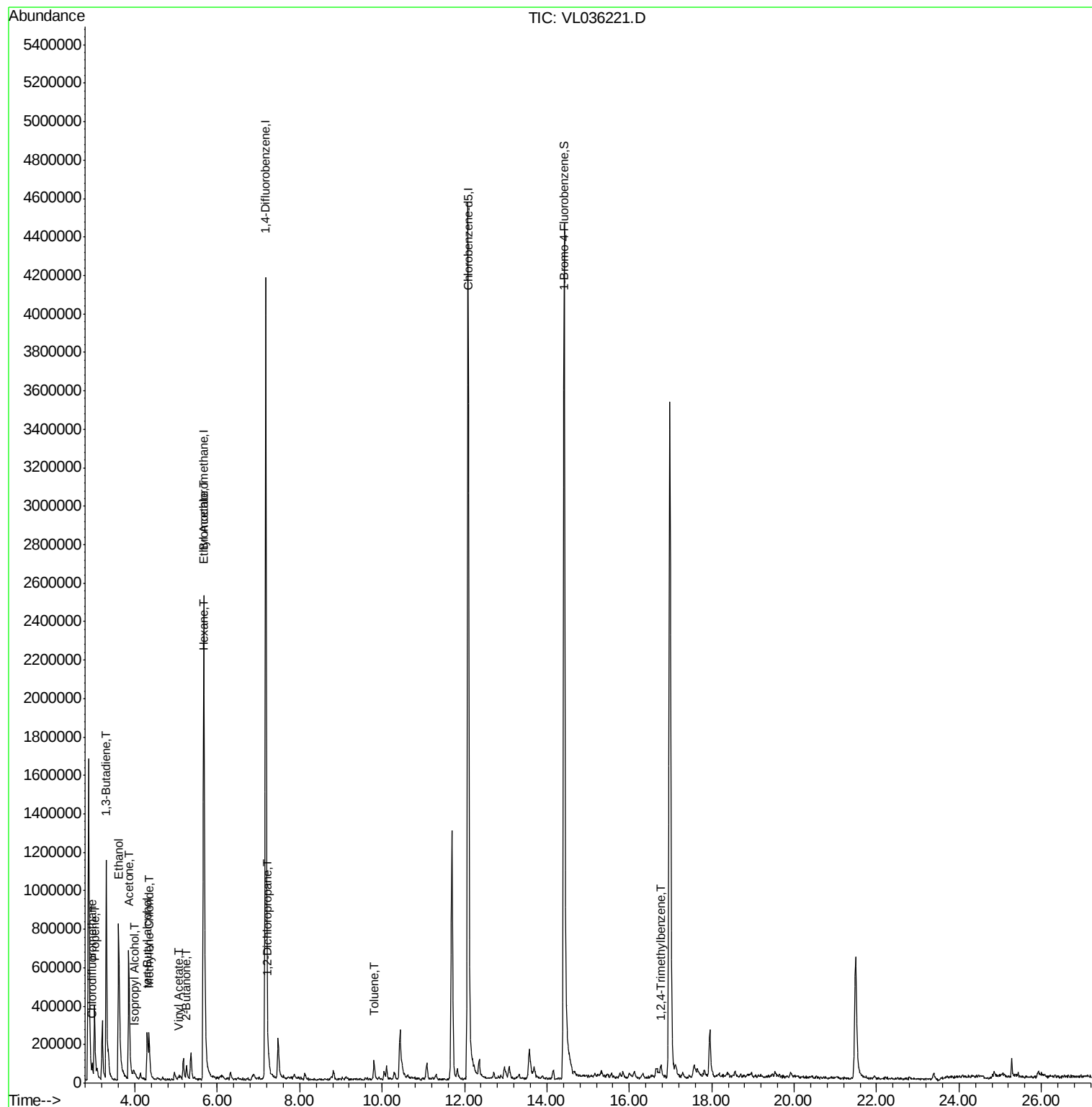
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	61264	0.321	ppbv #	68
9) Propene	3.02	41	125102	1.375	ppbv #	80
13) Ethanol	3.61	45	1053890	55.176	ppbv	91
15) Acetone	3.85	43	877043	4.799	ppbv	96
16) 1,3-Butadiene	3.30	39	415138	4.767	ppbv #	15
17) tert-Butyl alcohol	4.30	59	218130	1.457	ppbv	99
19) Isopropyl Alcohol	3.98	45	16676	0.158	ppbv #	93
20) Methylene Chloride	4.34	84	33498	0.599	ppbv	97
23) Vinyl Acetate	5.07	43	9481	0.041	ppbv #	65
25) Ethyl Acetate	5.68	43	30937	0.083	ppbv #	88
26) Hexane	5.69	57	100200	0.644	ppbv #	39
34) 2-Butanone	5.25	43	87110	0.416	ppbv	91
39) 1,2-Dichloropropane	7.23	63	9853	0.081	ppbv #	25
53) Toluene	9.81	91	39110	0.117	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.77	105	21196	0.054	ppbv #	61

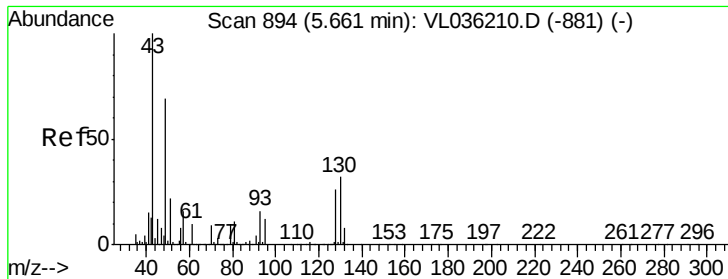
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jan 13 07:53:51 2021
QLast Update : Wed Jan 13 07:53:51 2021
Response via : Initial Calibration



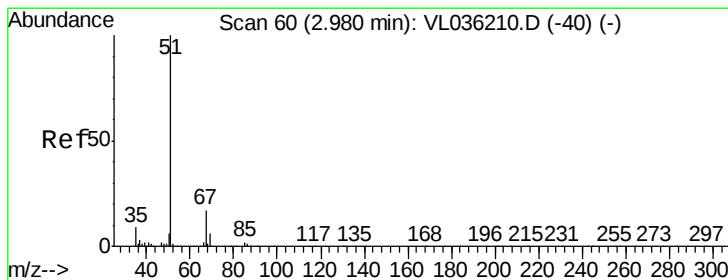
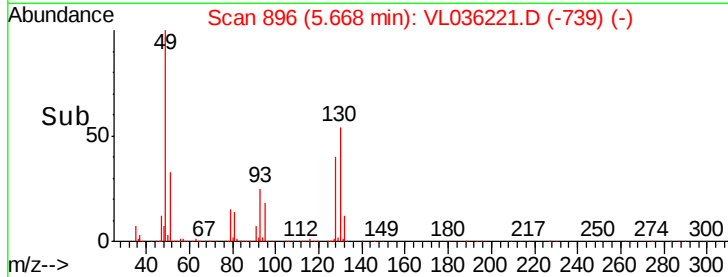
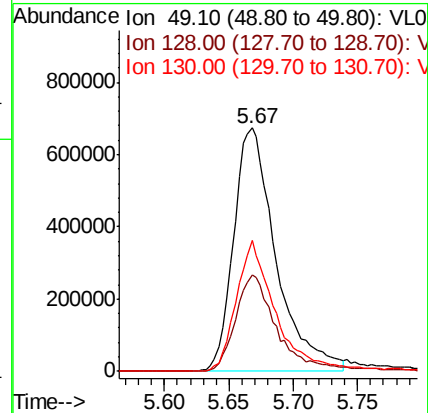
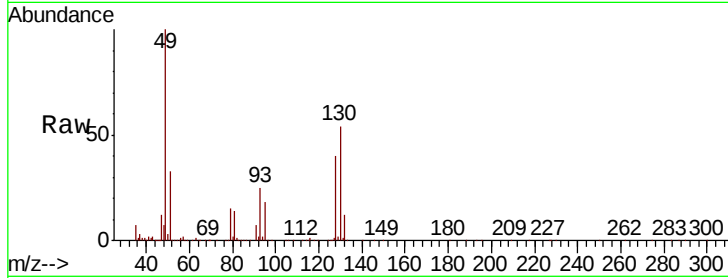


#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS2DL

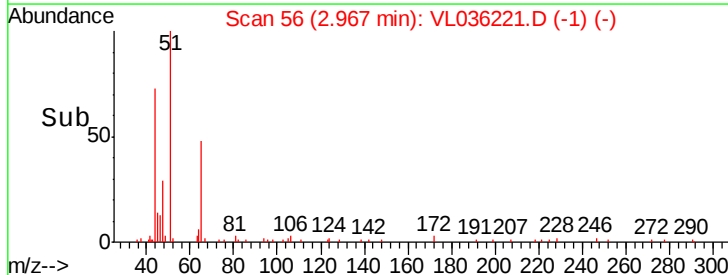
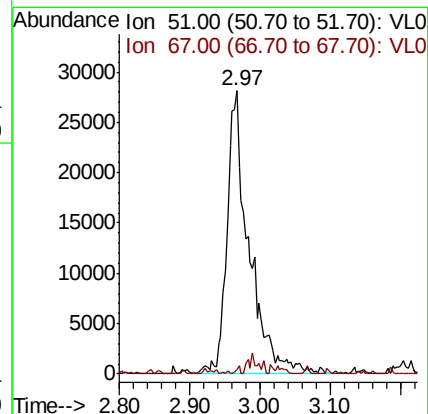
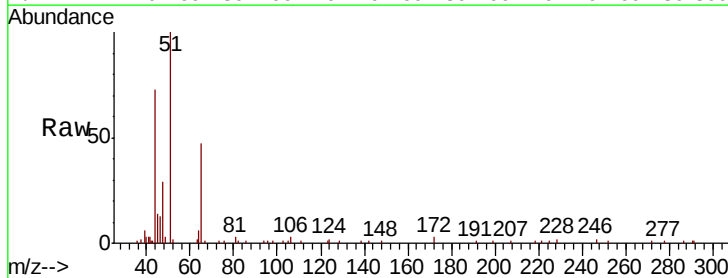
Tot Ion: 49 Resp: 1538679
 Ion Ratio Lower Upper
 49 100
 128 39.9 20.1 60.2
 130 51.4 25.3 75.9

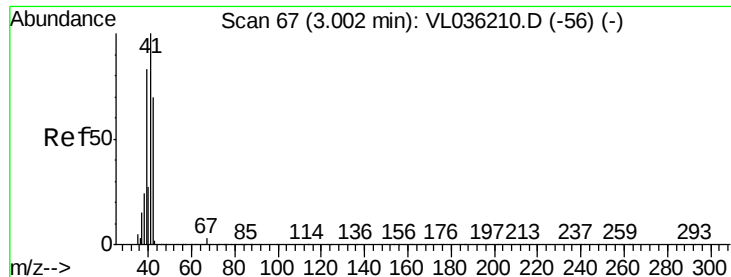


#3

Chlorodifluoromethane
 Concen: 0.321 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. -0.01 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Tgt Ion: 51 Resp: 61264
 Ion Ratio Lower Upper
 51 100
 67 3.6 14.0 21.0#





#9

Propene

Concen: 1.375 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036221.D

Acq: 13 Jan 2021 11:57

Instrument :

MSVOA_L

ClientSampleId :

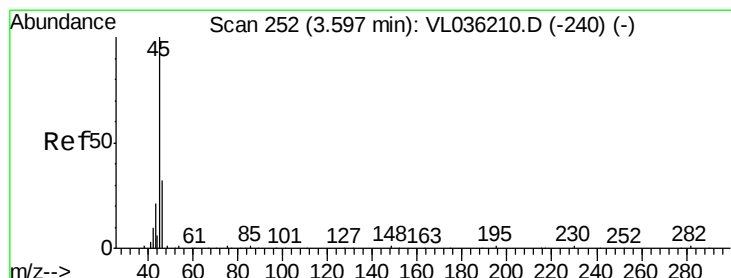
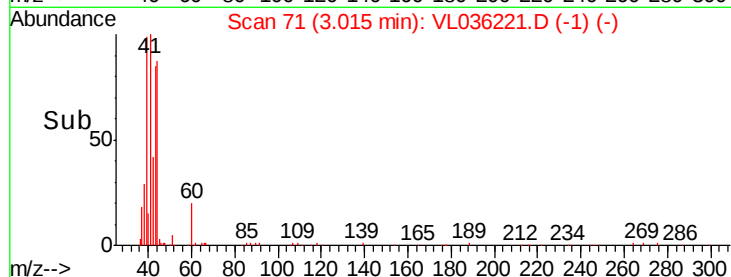
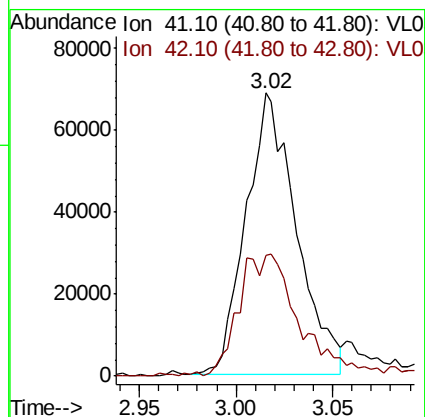
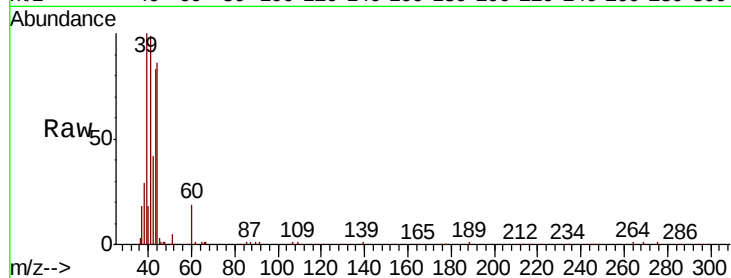
0121-SS2DL

Tot Ion: 41 Resp: 125102

Ion Ratio Lower Upper

41 100

42 54.7 57.1 85.7#



#13

Ethanol

Concen: 55.176 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL036221.D

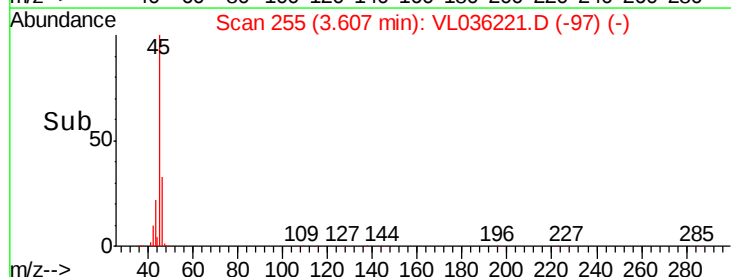
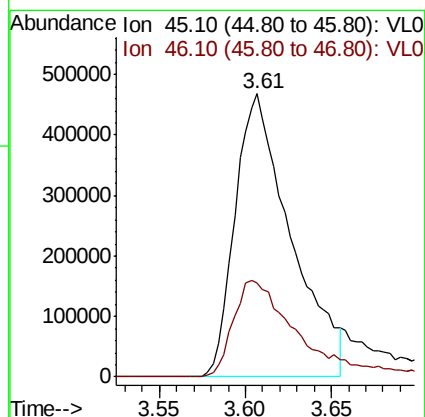
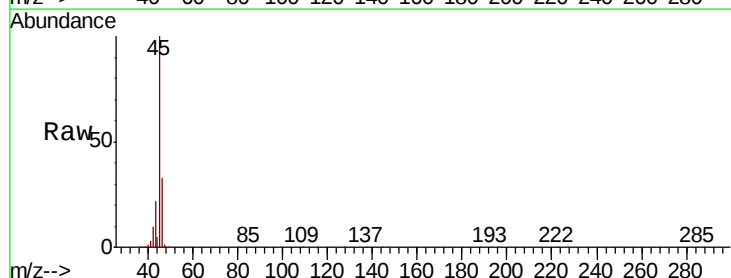
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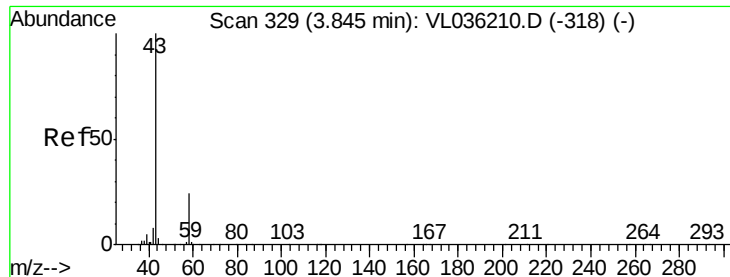
Tgt Ion: 45 Resp: 1053890

Ion Ratio Lower Upper

45 100

46 41.9 19.2 77.0

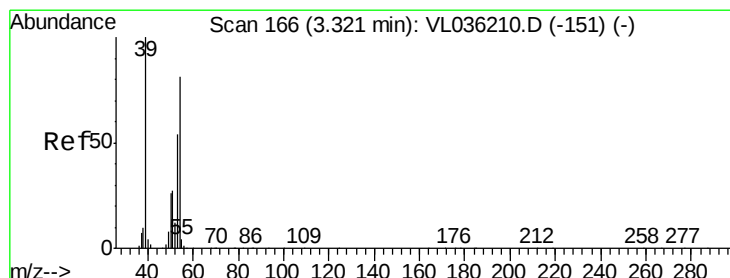
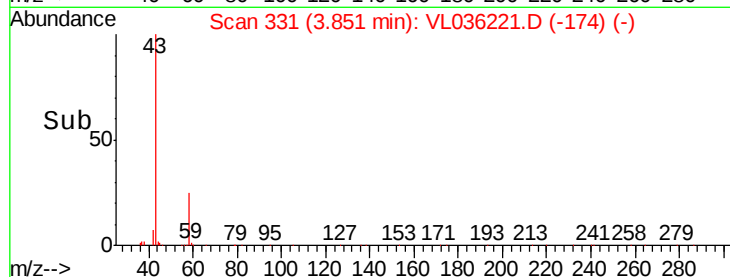
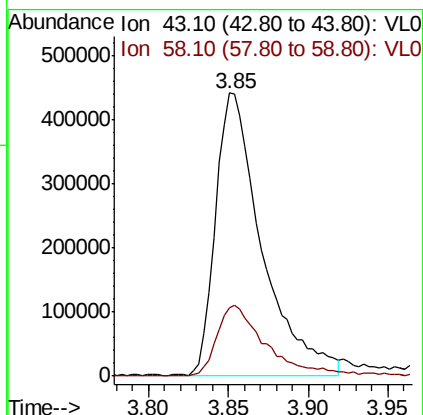
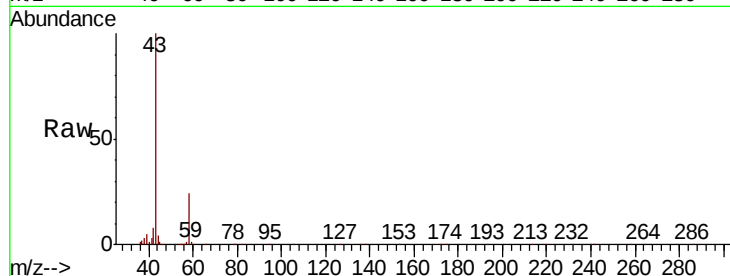




#15
Acetone
Concen: 4.799 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

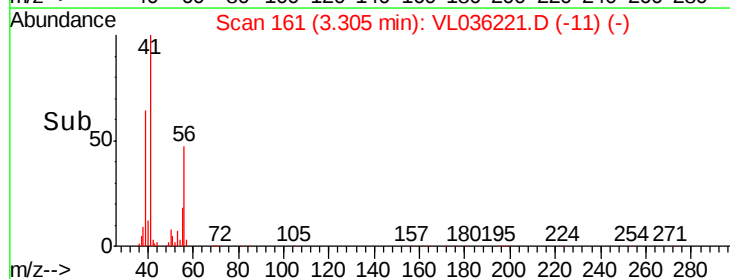
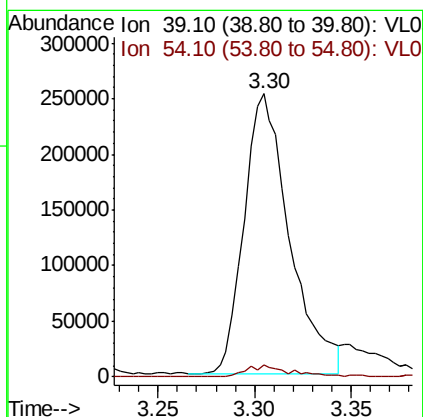
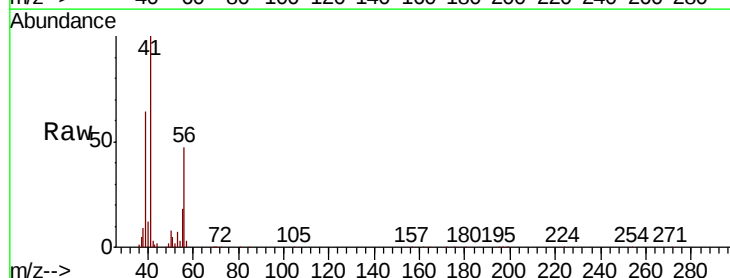
Instrument :
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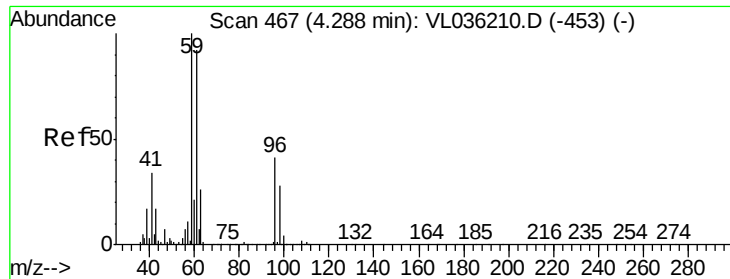
Tot Ion: 43 Resp: 877043
Ion Ratio Lower Upper
43 100
58 28.1 20.9 31.3



#16
1,3-Butadiene
Concen: 4.767 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.02 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

Tgt Ion: 39 Resp: 415138
Ion Ratio Lower Upper
39 100
54 4.4 62.5 93.7#



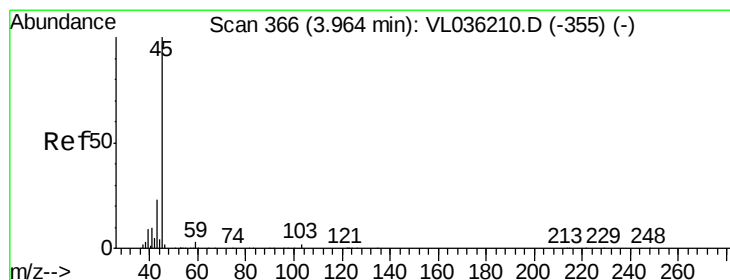
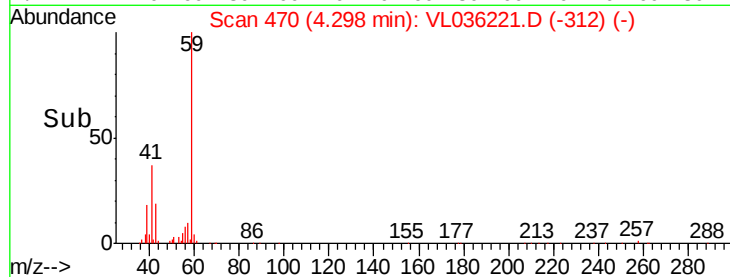
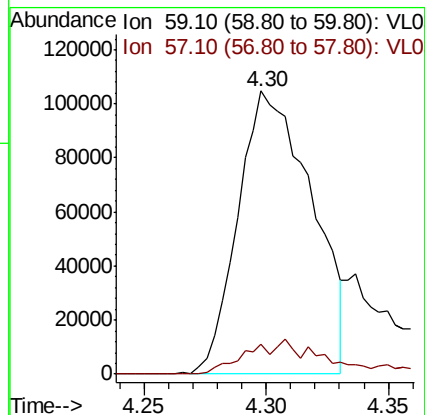
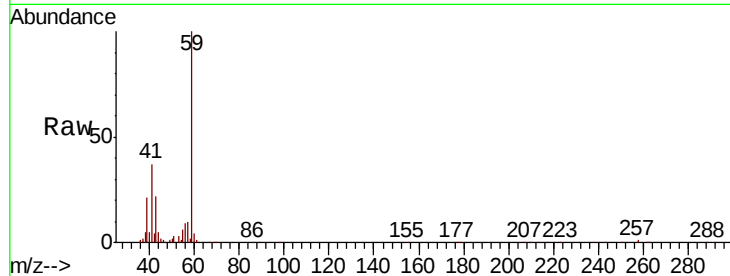


#17

tert-Butyl alcohol
 Concen: 1.457 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Instrument :
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 ClientSampleId :
 0121-SS2DL

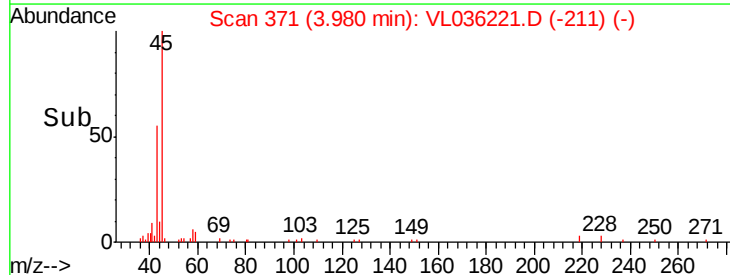
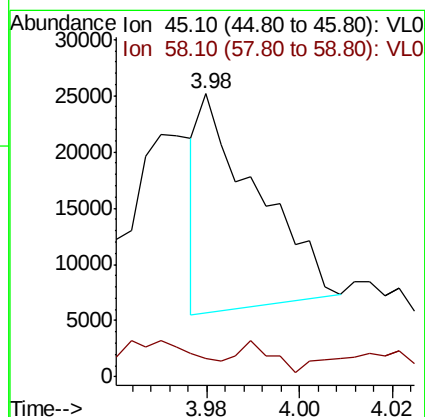
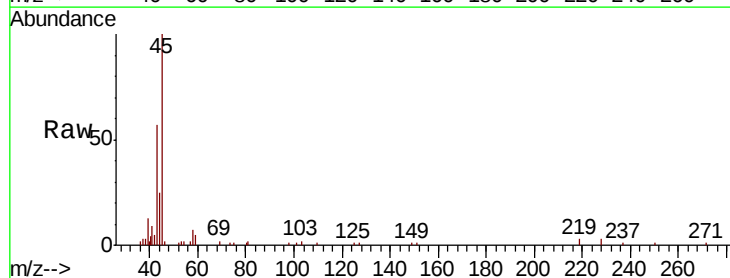
Tot Ion: 59 Resp: 218130
 Ion Ratio Lower Upper
 59 100
 57 11.9 9.2 13.8

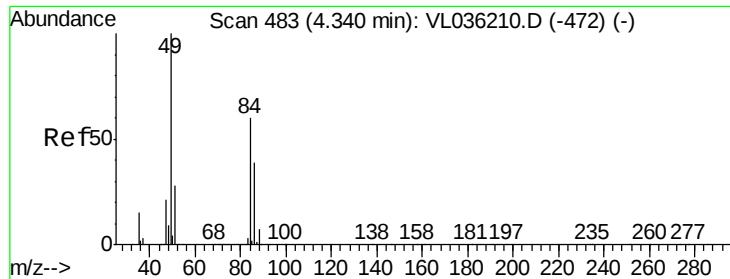


#19

Isopropyl Alcohol
 Concen: 0.158 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.02 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Tgt Ion: 45 Resp: 16676
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.9 2.9#

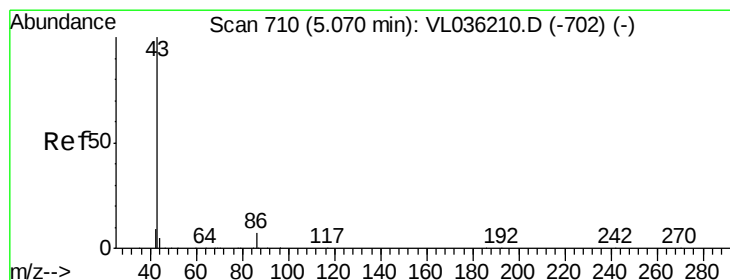
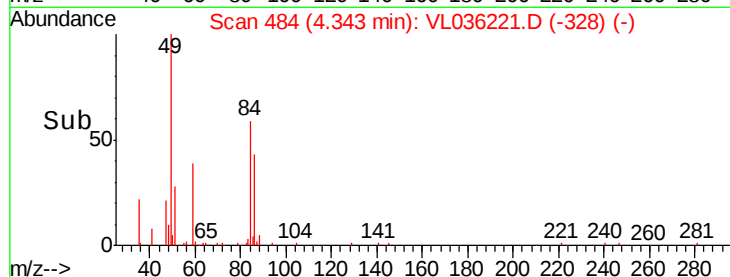
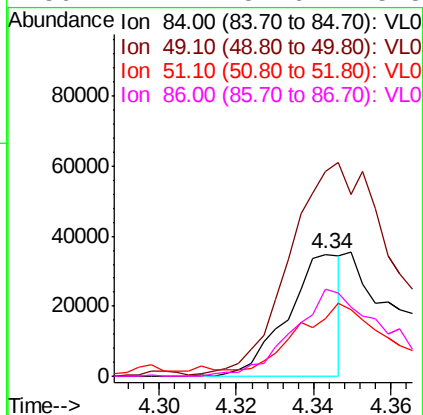
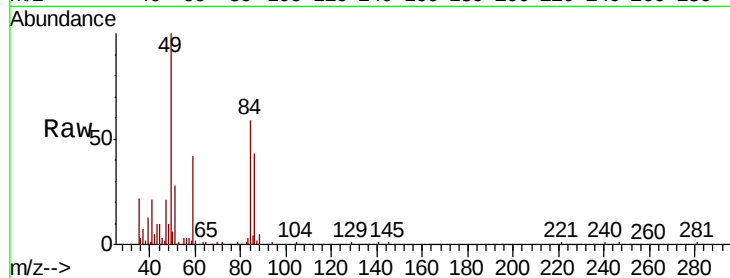




#20
Methvlene Chloride
Concen: 0.599 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

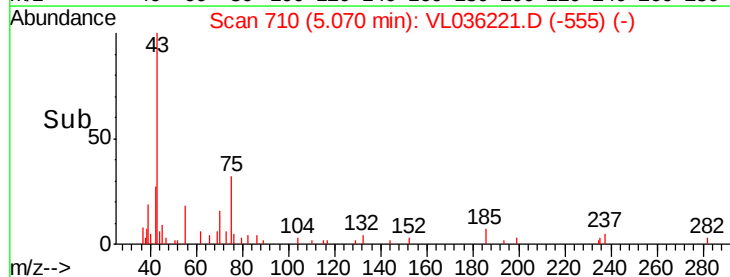
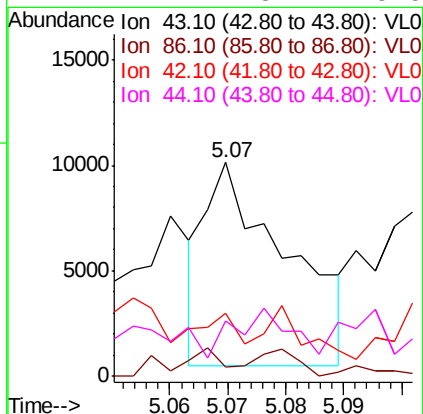
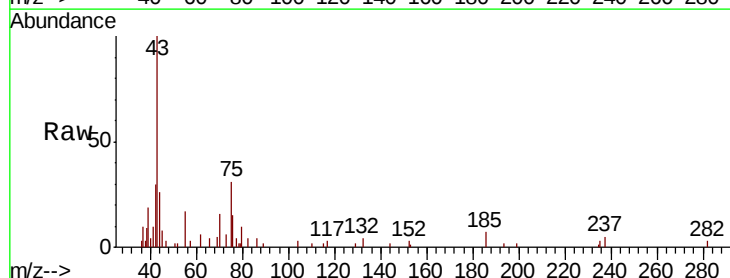
Instrument :
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ClientSampleId :
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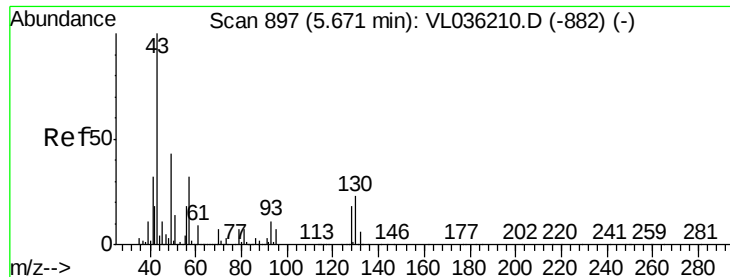
Tot Ion:	84	Resp:	33498
Ion	Ratio	Lower	Upper
84	100		
49	167.3	134.1	201.1
51	42.6	37.4	56.0
86	71.7	52.6	78.8



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 5.07 min Scan# 710
Delta R.T. -0.00 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

Tgt Ion:	43	Resp:	9481
Ion	Ratio	Lower	Upper
43	100		
86	4.5	4.9	7.3#
42	33.8	7.8	11.6#
44	1.4	3.7	5.5#

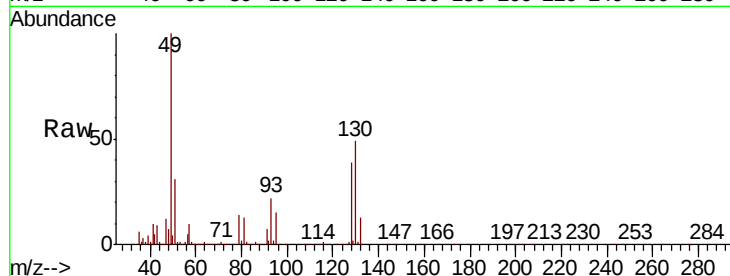




#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

Instrument :
MSVOA_L
ClientSampleId :
0121-SS2DL

Tot Ion:	43	Resp:	30937
Ion	Ratio	Lower	Upper
43	100		
45	13.7	8.3	12.5#
61	2.9	7.4	11.2#
70	3.2	5.5	8.3#



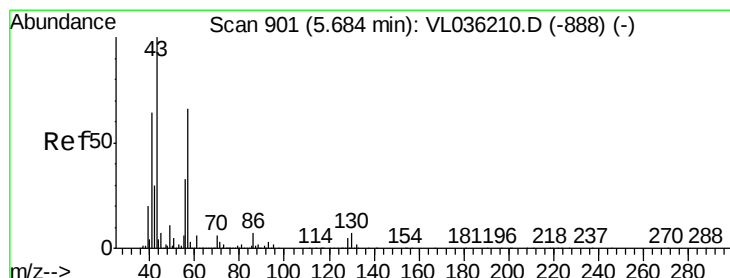
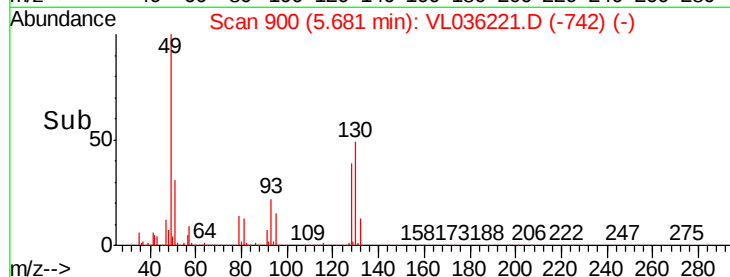
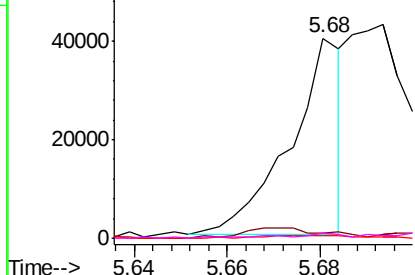
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

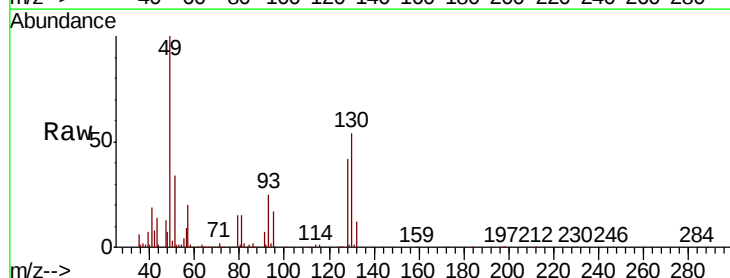
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.644 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036221.D
Acq: 13 Jan 2021 11:57

Tgt Ion:	57	Resp:	100200
Ion	Ratio	Lower	Upper
57	100		
41	112.5	83.0	124.6
43	91.3	202.4	303.6#
56	66.3	43.4	65.0#



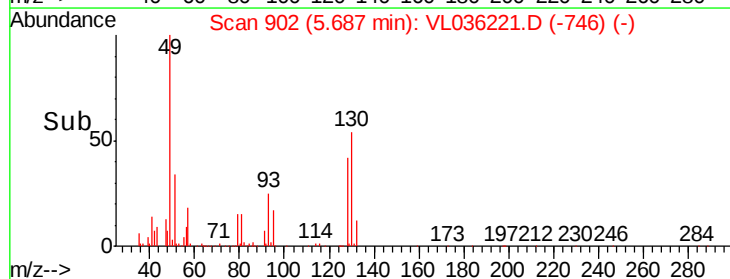
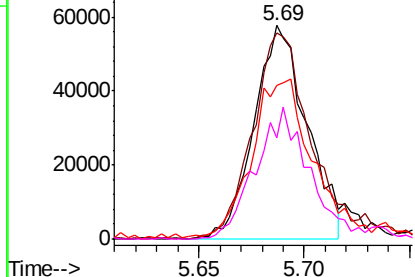
Abundance

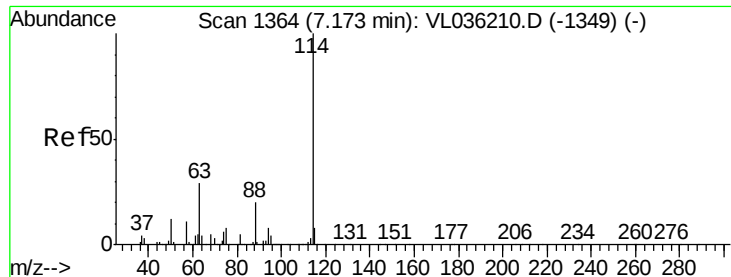
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

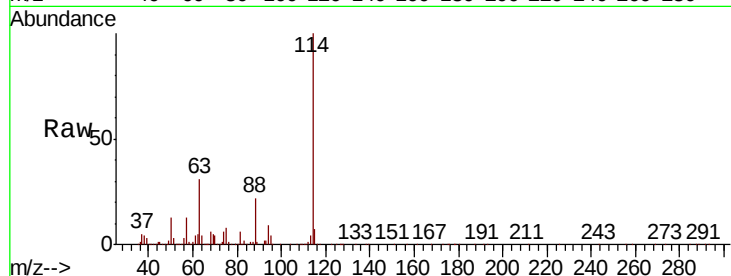




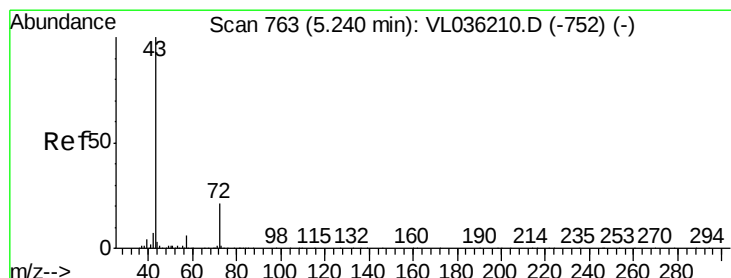
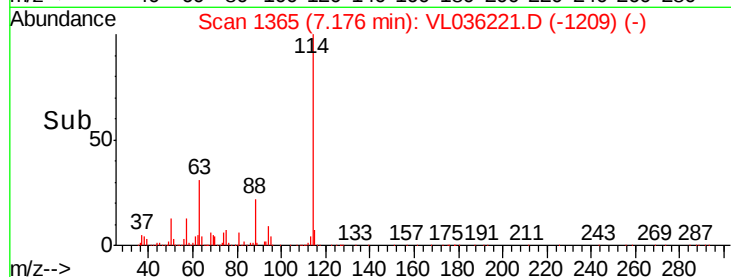
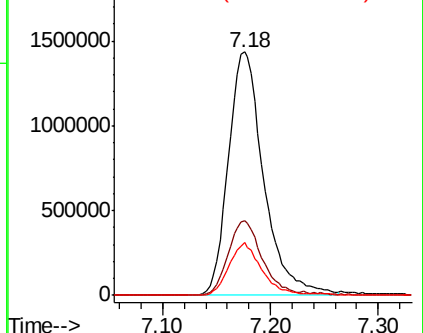
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Instrument :
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 0121-SS2DL

Tot Ion:114 Resp: 3287964
 Ion Ratio Lower Upper
 114 100
 63 30.5 24.7 37.1
 88 20.3 16.6 24.8

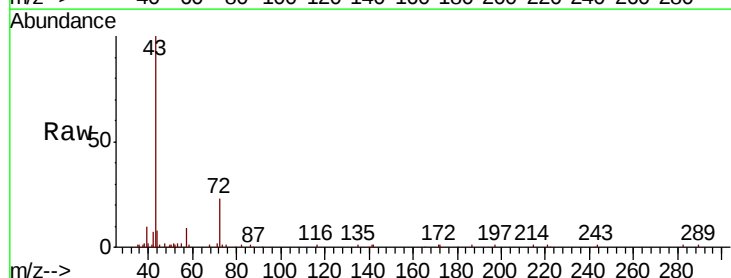


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

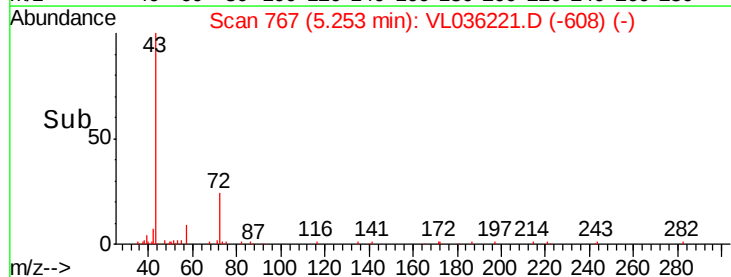
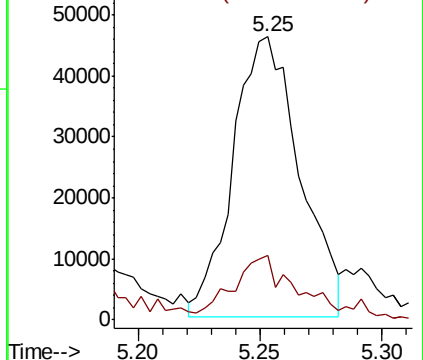


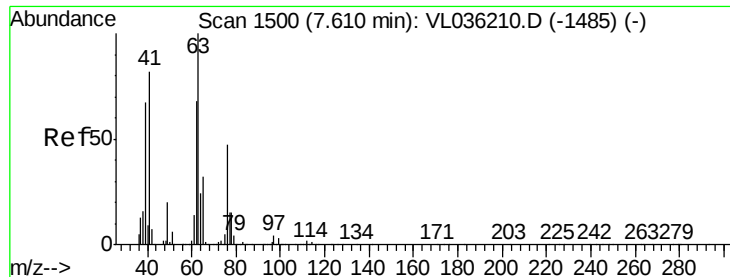
#34
 2-Butanone
 Concen: 0.416 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Tgt Ion: 43 Resp: 87110
 Ion Ratio Lower Upper
 43 100
 72 24.1 16.1 24.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.081 ppbv

RT: 7.23 min Scan# 1382

Delta R.T. -0.38 min

Lab File: VL036221.D

Acq: 13 Jan 2021 11:57

Instrument :

MSVOA_L

ClientSampleId :

0121-SS2DL

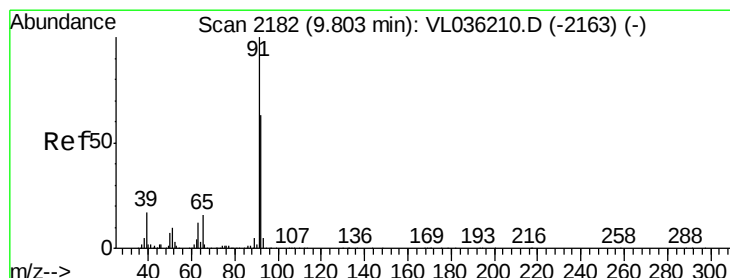
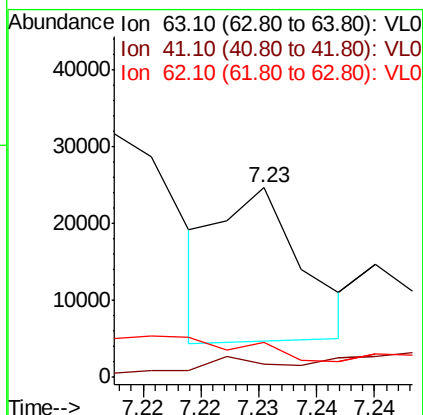
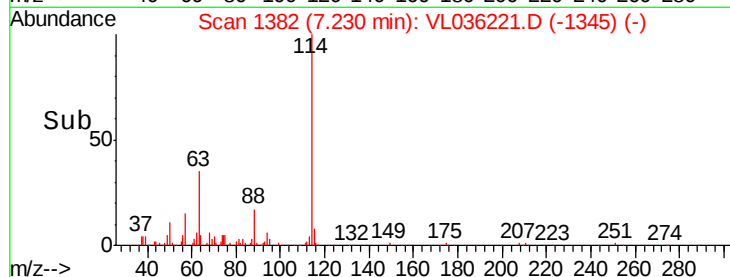
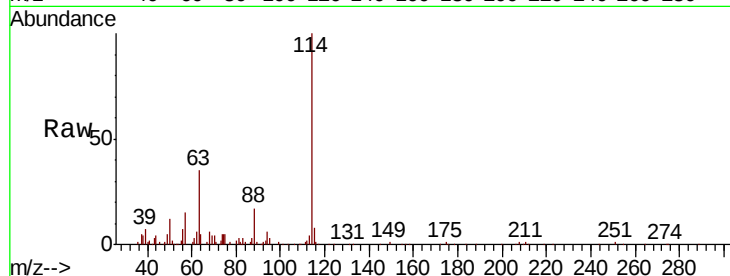
Tot Ion: 63 Resp: 9853

Ion Ratio Lower Upper

63 100

41 5.8 66.1 99.1#

62 18.6 54.8 82.2#



#53

Toluene

Concen: 0.117 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL036221.D

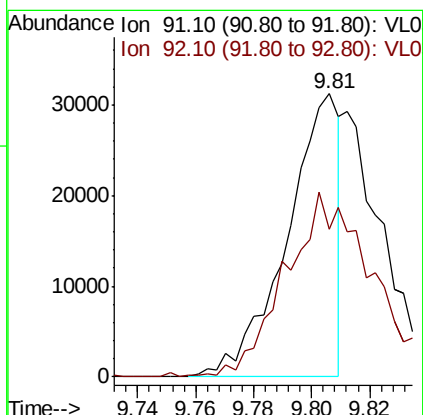
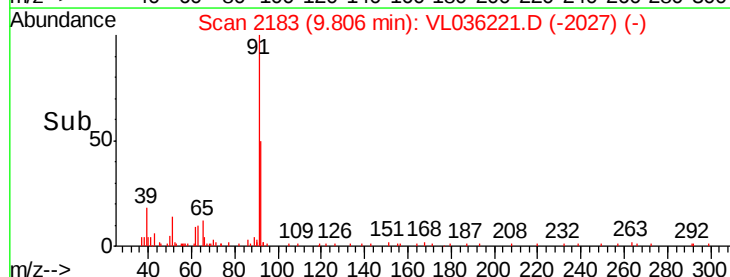
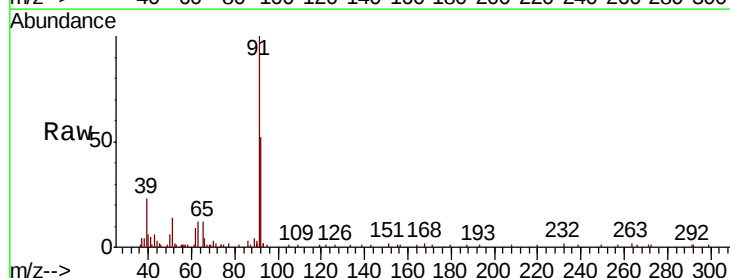
Acq: 13 Jan 2021 11:57

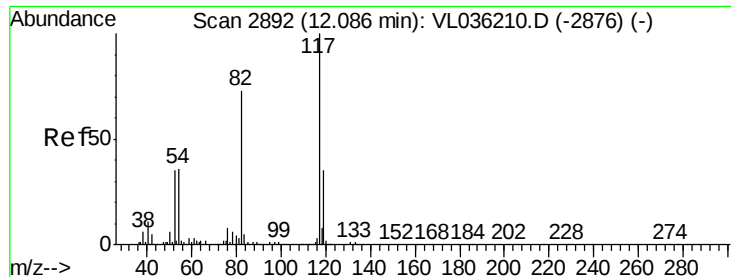
Tgt Ion: 91 Resp: 39110

Ion Ratio Lower Upper

91 100

92 114.1 48.5 72.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL036221.D

Acq: 13 Jan 2021 11:57

Instrument :

MSVOA_L

ClientSampleId :

0121-SS2DL

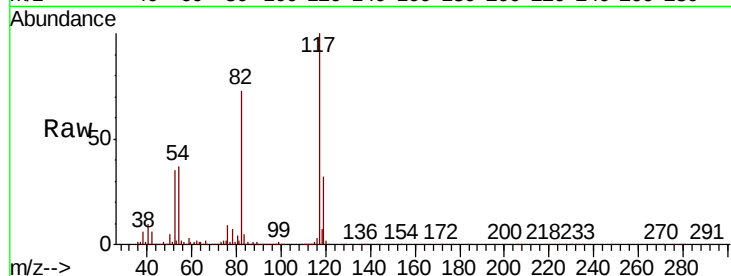
Tot Ion:117 Resp: 2913196

Ion Ratio Lower Upper

117 100

82 77.5 59.7 89.5

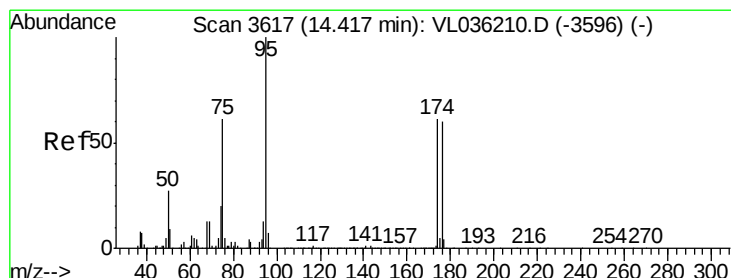
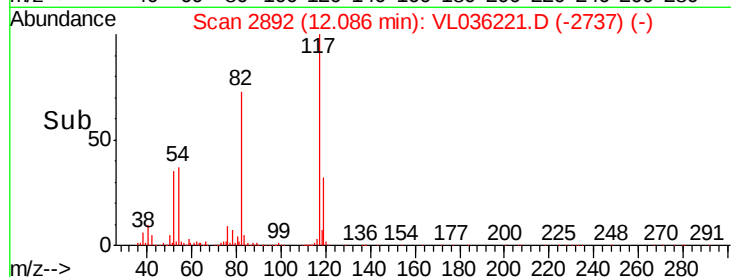
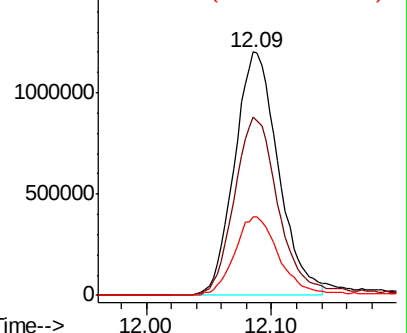
119 34.6 28.6 43.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.300 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.00 min

Lab File: VL036221.D

Acq: 13 Jan 2021 11:57

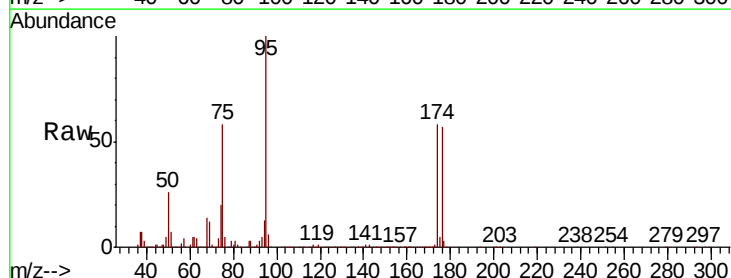
Tgt Ion: 95 Resp: 2483578

Ion Ratio Lower Upper

95 100

174 63.2 49.4 74.0

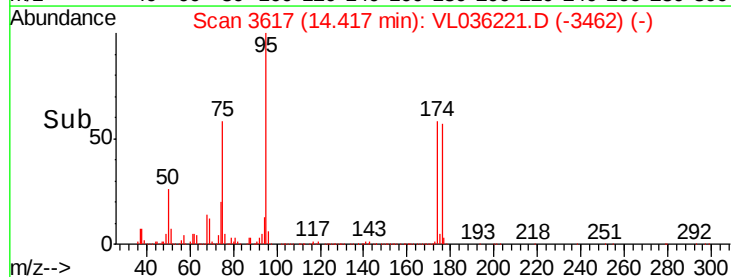
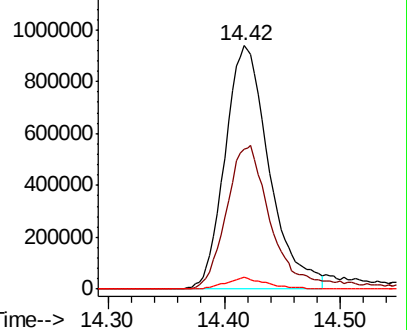
175 4.6 3.8 5.8

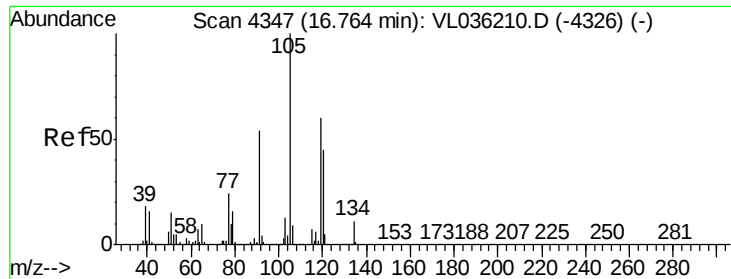


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.054 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL036221.D
 Acq: 13 Jan 2021 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS2DL

Tot Ion:	105	Resp:	21196
Ion	Ratio	Lower	Upper
105	100		
120	33.1	36.2	54.2#
91	8.2	43.3	64.9#
77	13.4	19.1	28.7#

