

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036710.D
 Acq On : 6 Apr 2021 23:06
 Operator : SY/AP
 Sample : M1977-12 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-9(2021)DL

Quant Time: Apr 07 04:29:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1266601	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3129699	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2797924	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2164094	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

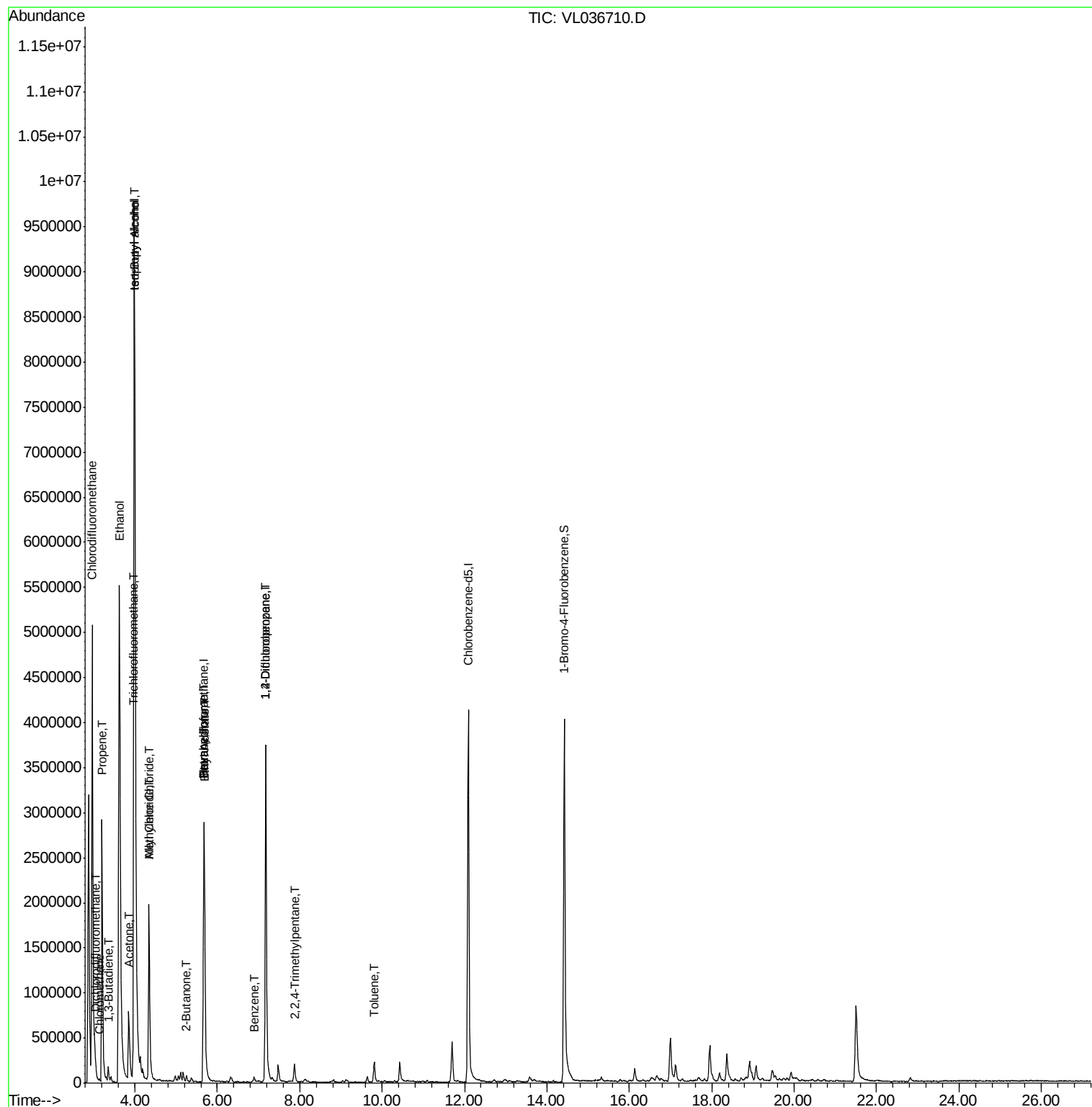
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	87019	0.421 ppbv #	83
3) Chlorodifluoromethane	2.96	51	4252330	17.969 ppbv #	59
4) Chloromethane	3.13	50	26970	0.323 ppbv #	74
9) Propene	3.20	41	1047551	13.885 ppbv	94
11) Trichlorofluoromethane	3.95	101	23992	0.114 ppbv #	79
13) Ethanol	3.62	45	9529318	1060.708 ppbv	94
15) Acetone	3.85	43	1019209	8.176 ppbv	98
16) 1,3-Butadiene	3.35	39	19210	0.221 ppbv #	27
17) tert-Butyl alcohol	3.99	59	722735	6.660 ppbv	96
19) Isopropyl Alcohol	3.99	45	16914491	246.651 ppbv #	93
20) Methylene Chloride	4.34	84	747229	12.802 ppbv	89
21) Allyl Chloride	4.34	41	20916	0.210 ppbv #	17
25) Ethyl Acetate	5.69	43	588868	1.987 ppbv #	80
26) Hexane	5.69	57	796587	5.792 ppbv #	48
34) 2-Butanone	5.25	43	32556	0.213 ppbv #	55
36) Benzene	6.89	78	37198	0.129 ppbv	93
39) 1,2-Dichloropropane	7.18	63	819900	7.002 ppbv #	22
41) Tetrahydrofuran	5.69	42	308410	4.378 ppbv #	54
44) 2,2,4-Trimethylpentane	7.87	57	173471	0.341 ppbv #	87
53) Toluene	9.81	91	66420	0.216 ppbv #	20

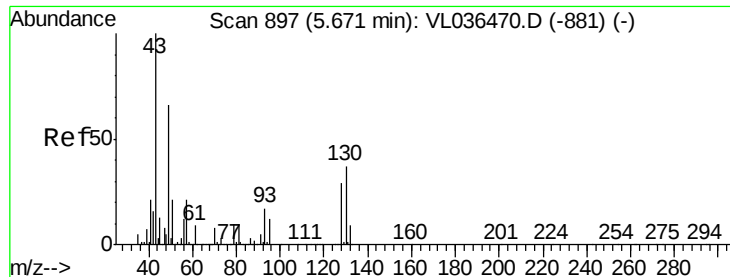
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036710.D

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MSVOA_L

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UP-SG-9(2021)DL

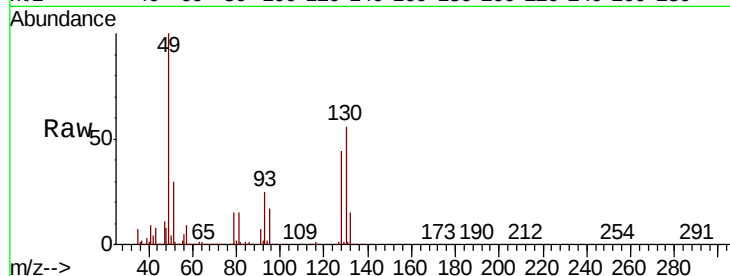
Tot Ion: 49 Resp: 1266601

Ion Ratio Lower Upper

49 100

128 46.9 23.5 70.6

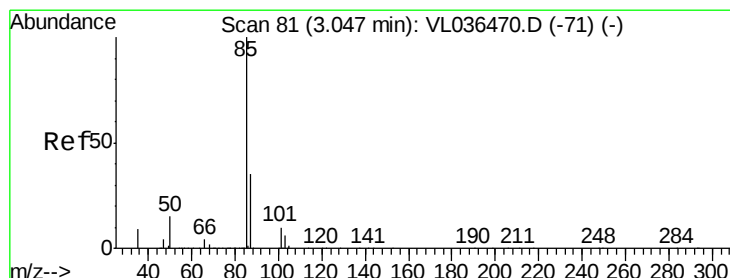
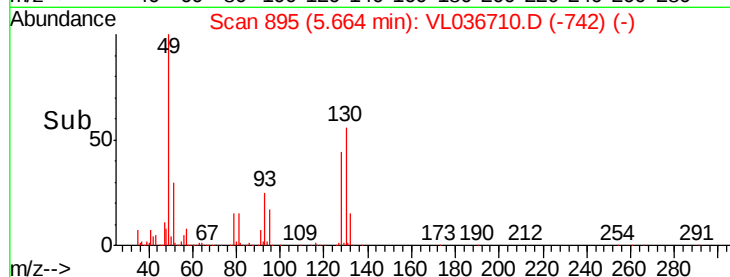
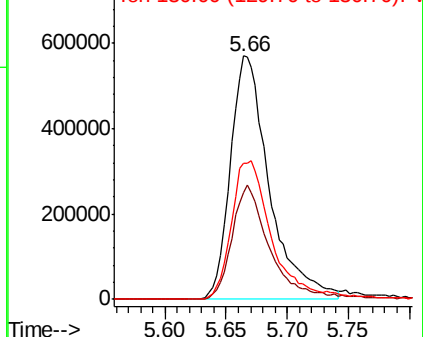
130 60.1 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.421 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036710.D

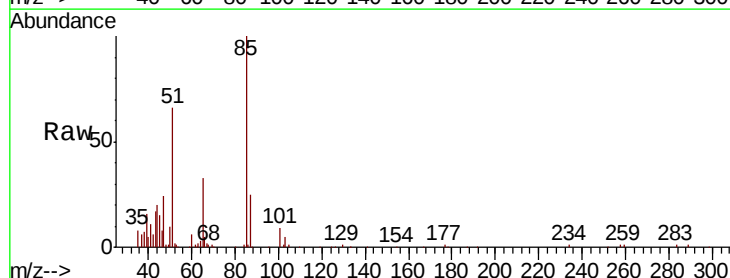
Acq: 6 Apr 2021 23:06

Tgt Ion: 85 Resp: 87019

Ion Ratio Lower Upper

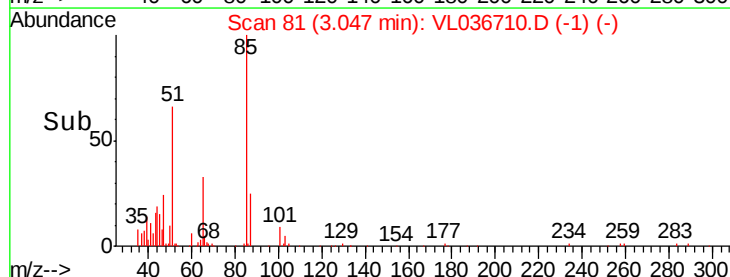
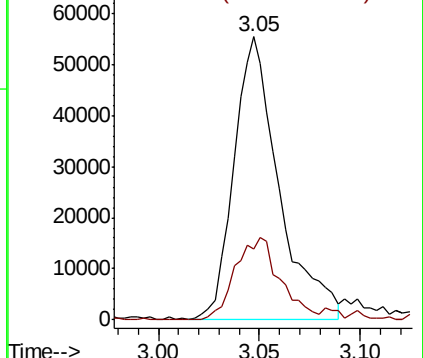
85 100

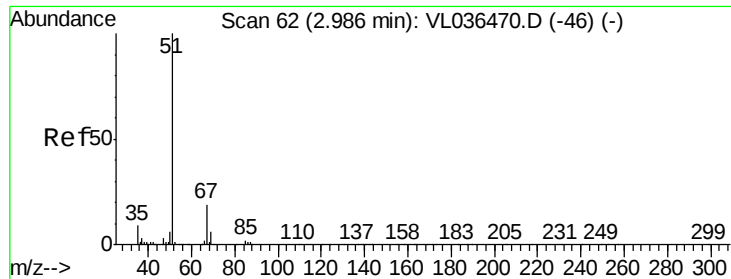
87 24.8 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

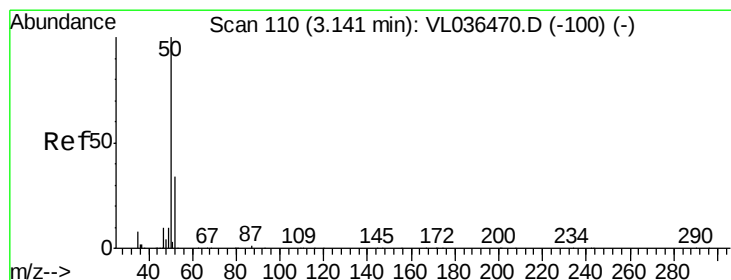
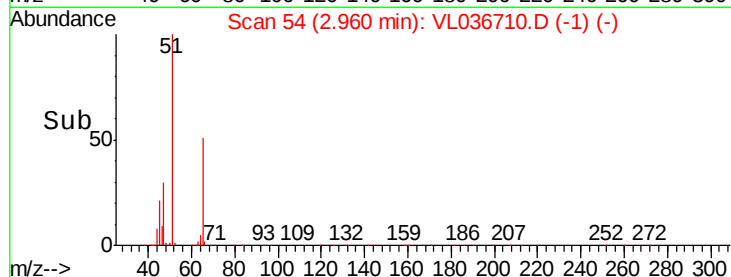
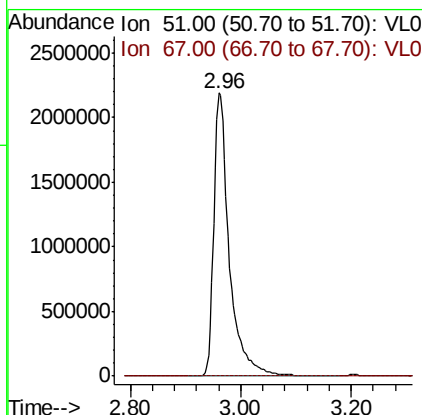
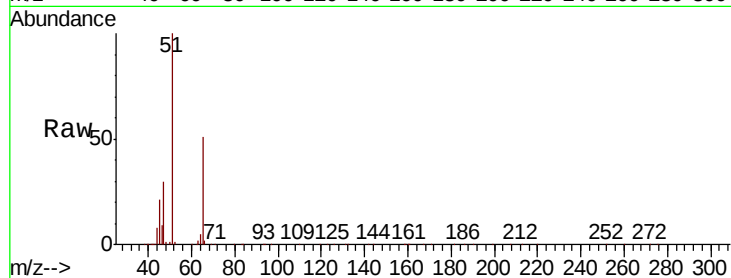




#3
Chlorodifluoromethane
Concen: 17.969 ppbv
RT: 2.96 min Scan# 54
Delta R.T. -0.03 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

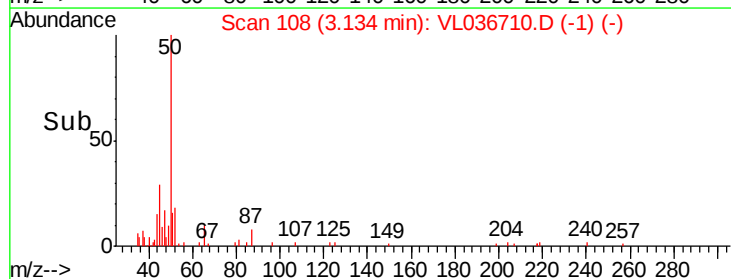
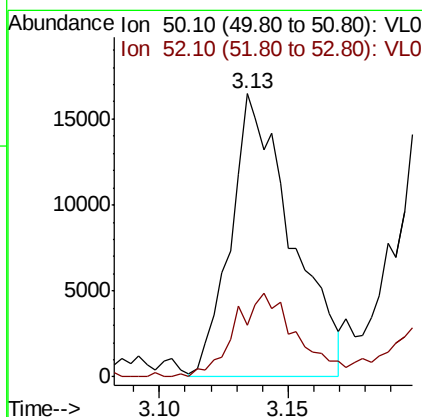
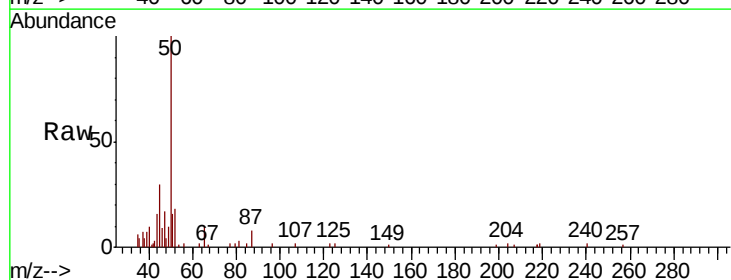
Instrument :
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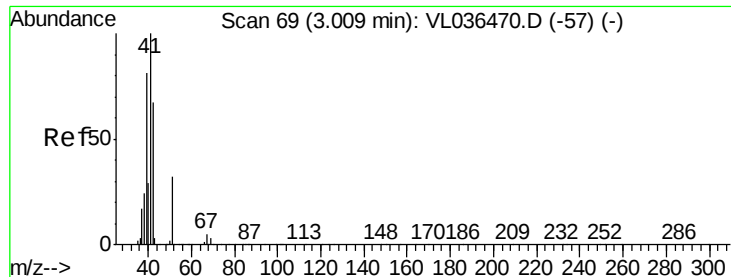
Tot Ion: 51 Resp: 4252330
Ion Ratio Lower Upper
51 100
67 0.2 14.7 22.1#



#4
Chloromethane
Concen: 0.323 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion: 50 Resp: 26970
Ion Ratio Lower Upper
50 100
52 18.7 27.0 40.6#





#9

Propene

Concen: 13.885 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.20 min

Lab File: VL036710.D

Acq: 6 Apr 2021 23:06

Instrument :

MSVOA_L

ClientSampleId :

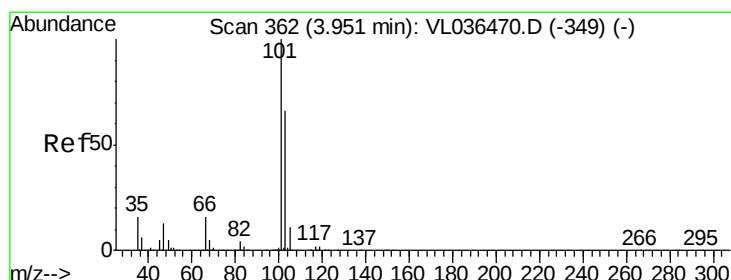
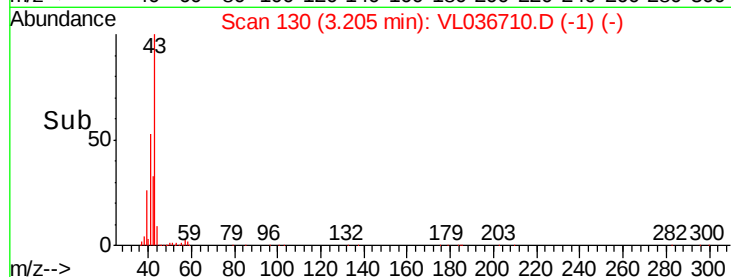
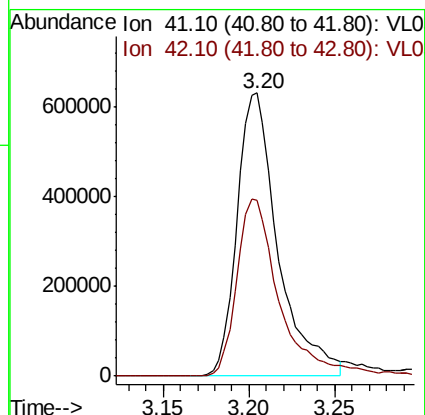
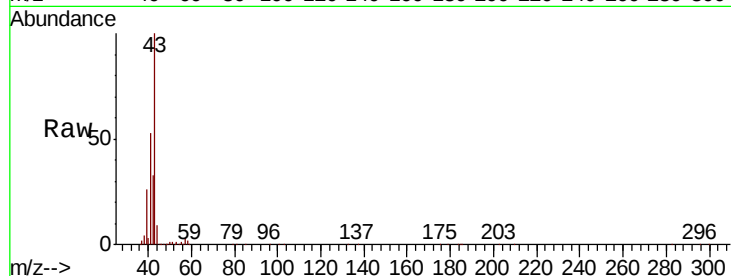
UP-SG-9(2021)DL

Tot Ion: 41 Resp: 1047551

Ion Ratio Lower Upper

41 100

42 66.5 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.114 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL036710.D

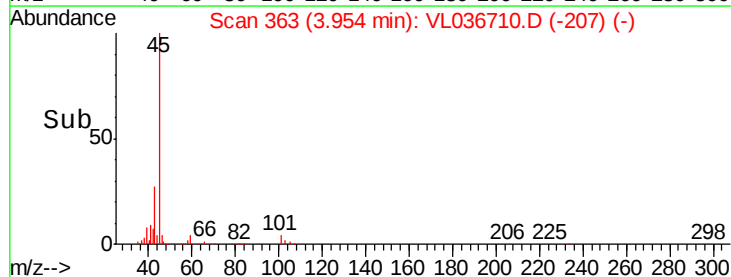
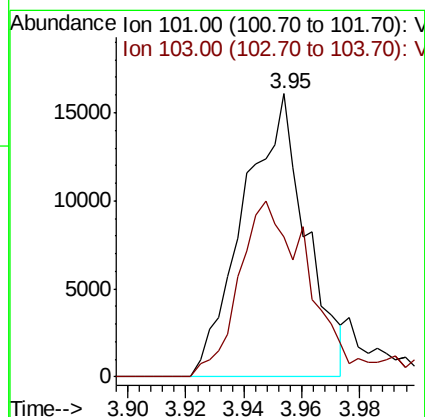
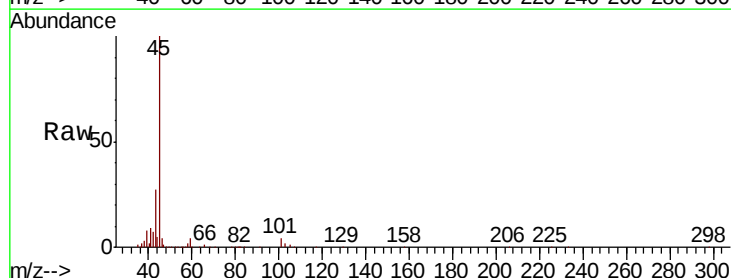
Acq: 6 Apr 2021 23:06

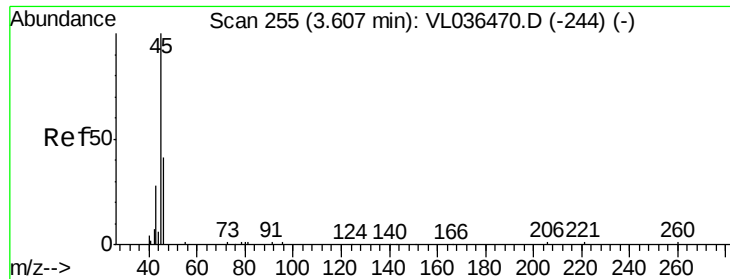
Tgt Ion: 101 Resp: 23992

Ion Ratio Lower Upper

101 100

103 49.2 52.5 78.7#

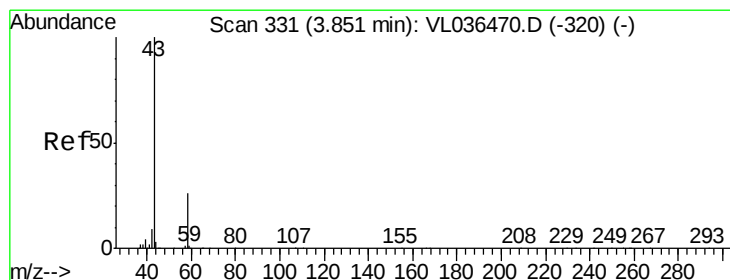
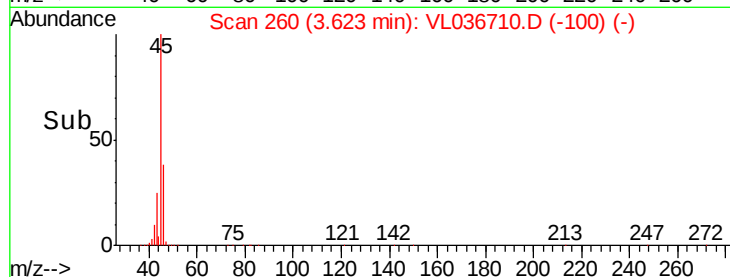
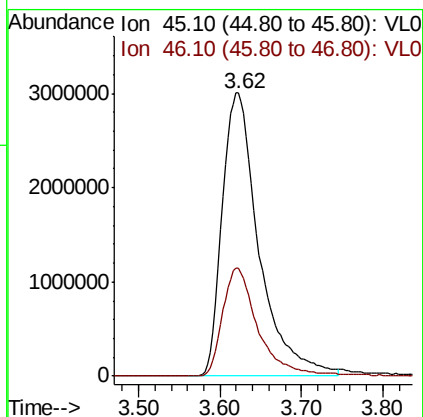
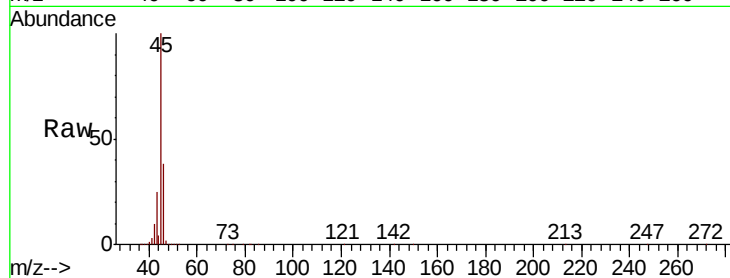




#13
Ethanol
Concen: 1060.708 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

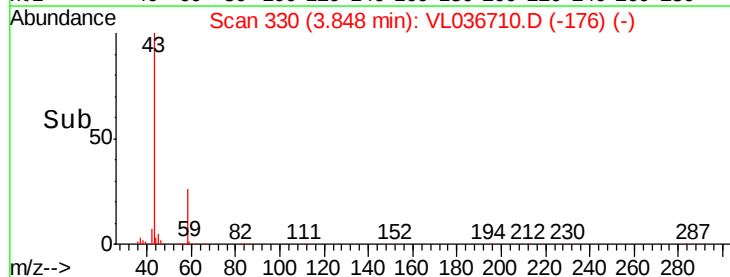
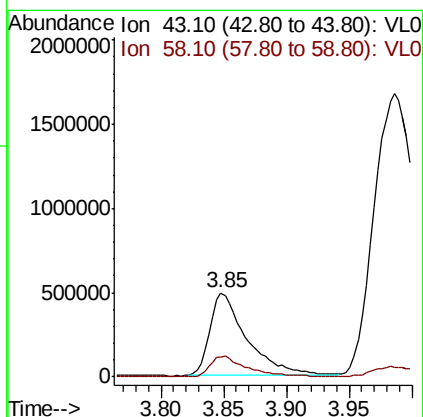
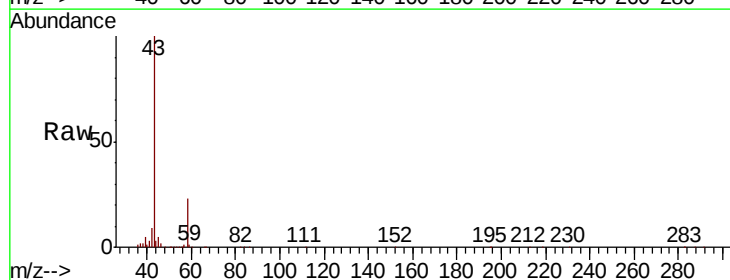
Instrument :
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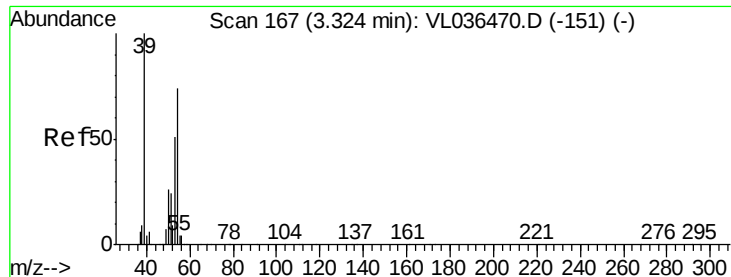
Tot Ion: 45 Resp: 9529318
Ion Ratio Lower Upper
45 100
46 37.5 16.6 66.2



#15
Acetone
Concen: 8.176 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion: 43 Resp: 1019209
Ion Ratio Lower Upper
43 100
58 25.7 21.2 31.8

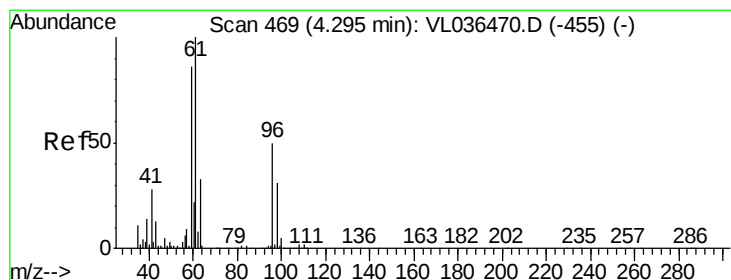
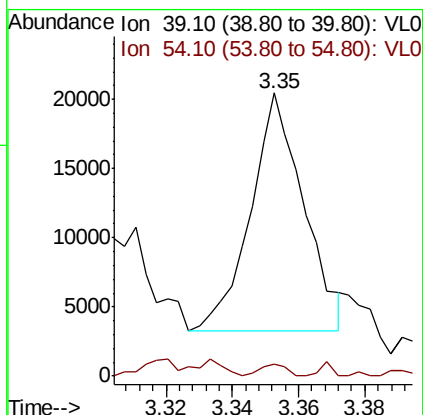
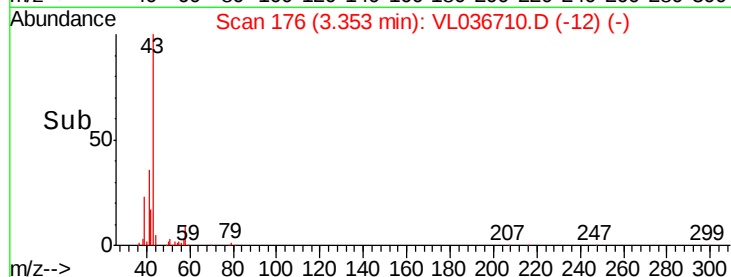
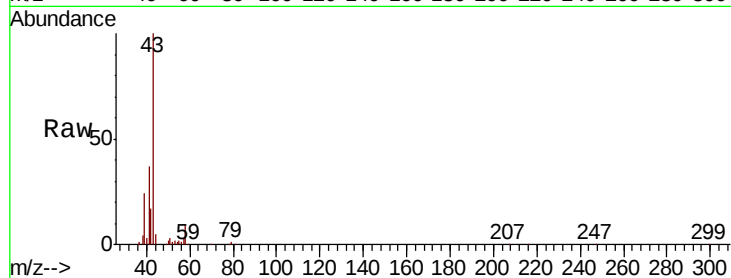




#16
 1,3-Butadiene
 Concen: 0.221 ppbv
 RT: 3.35 min Scan# 176
 Delta R.T. 0.03 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

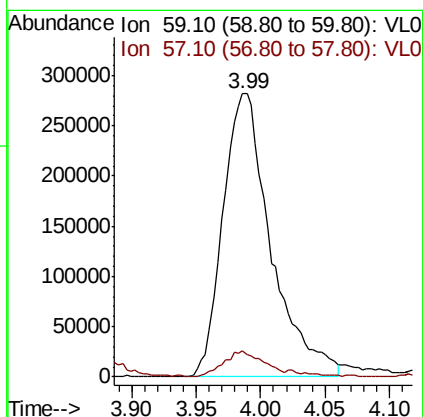
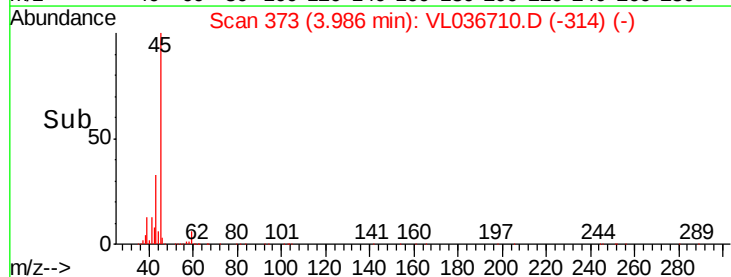
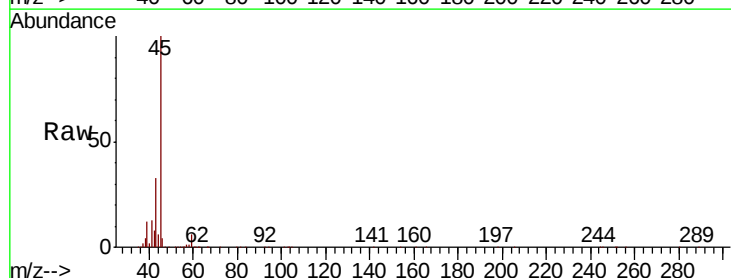
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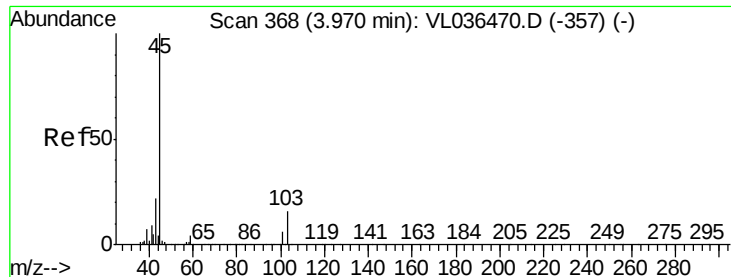
Tot Ion: 39 Resp: 19210
 Ion Ratio Lower Upper
 39 100
 54 11.9 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 6.660 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. -0.31 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

Tgt Ion: 59 Resp: 722735
 Ion Ratio Lower Upper
 59 100
 57 9.2 8.6 12.8



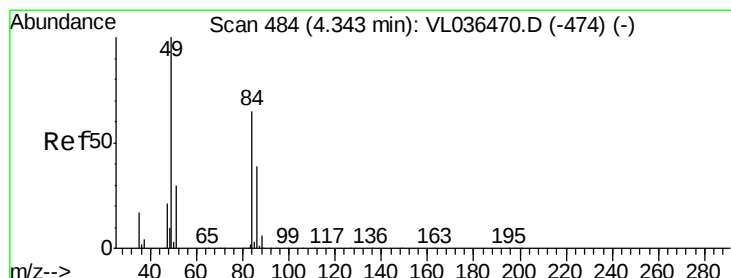
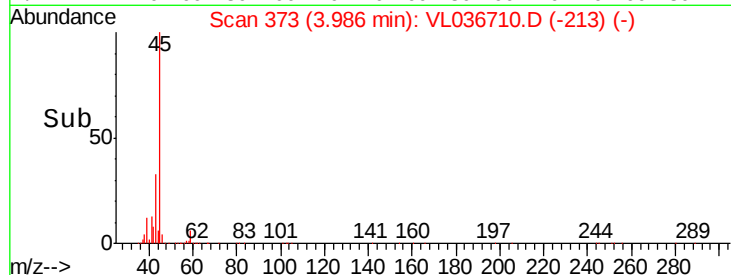
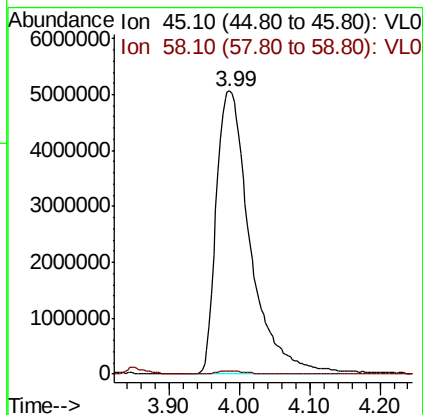
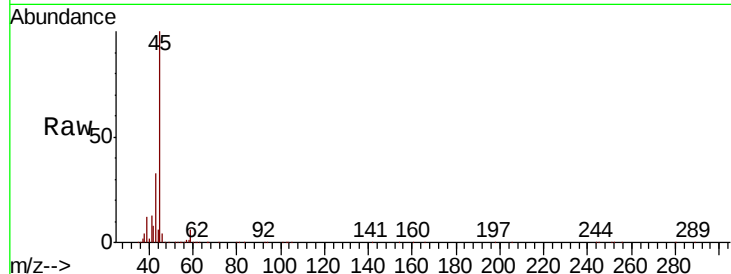


#19

Isopropyl Alcohol
 Concen: 246.651 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.02 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-9(2021)DL

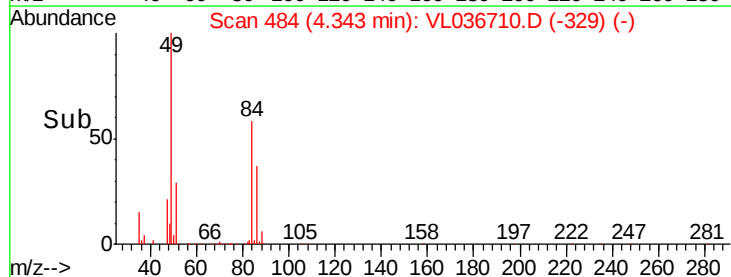
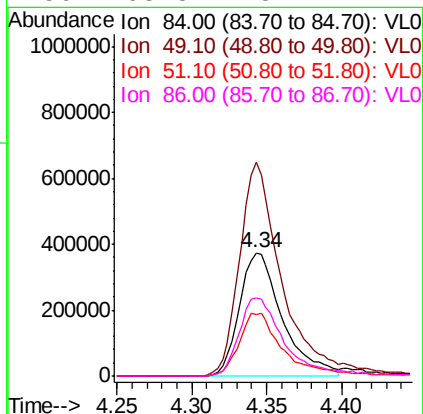
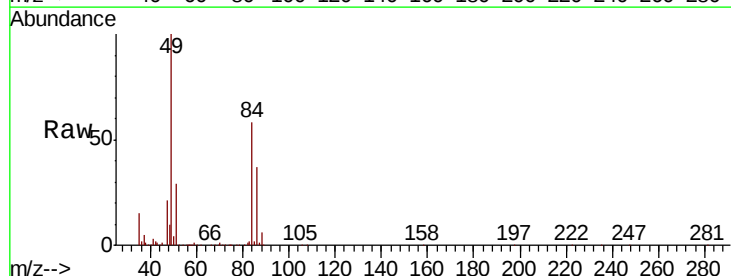
Tot Ion: 45 Resp:16914491
 Ion Ratio Lower Upper
 45 100
 58 1.2 2.9 4.3#

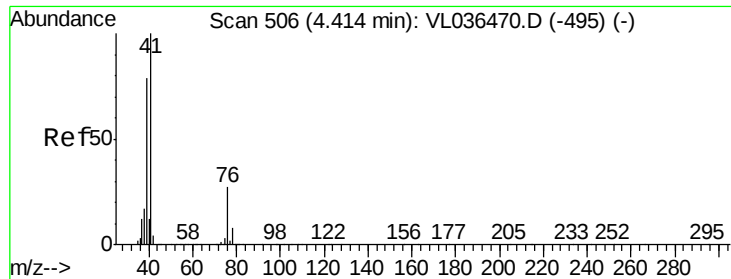


#20

Methylene Chloride
 Concen: 12.802 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.00 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

Tgt Ion: 84 Resp: 747229
 Ion Ratio Lower Upper
 84 100
 49 173.0 122.9 184.3
 51 49.3 36.9 55.3
 86 63.3 48.2 72.4

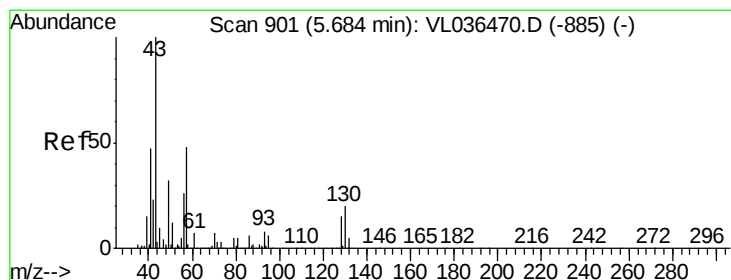
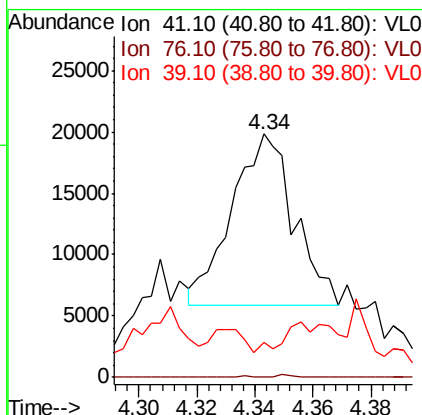
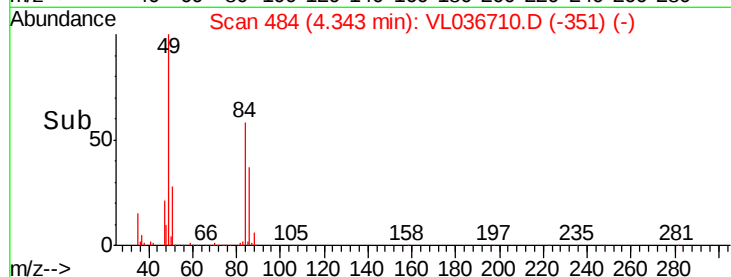
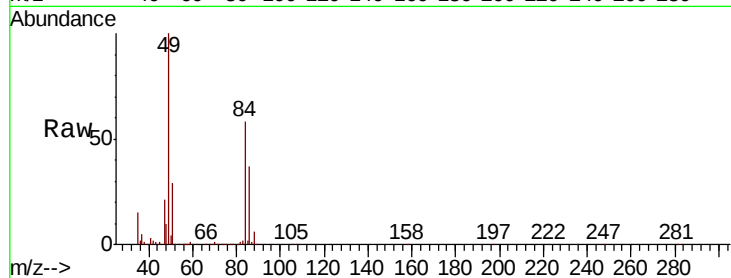




#21
Allvl Chloride
Concen: 0.210 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.07 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

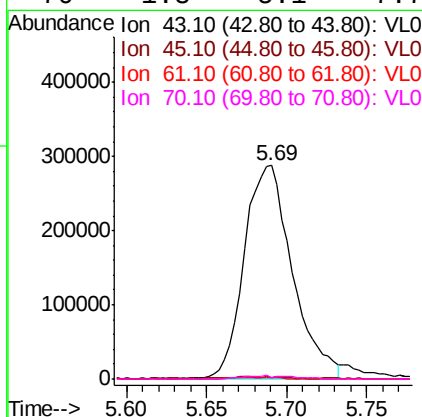
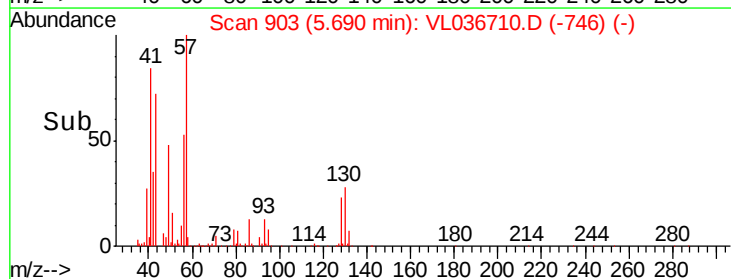
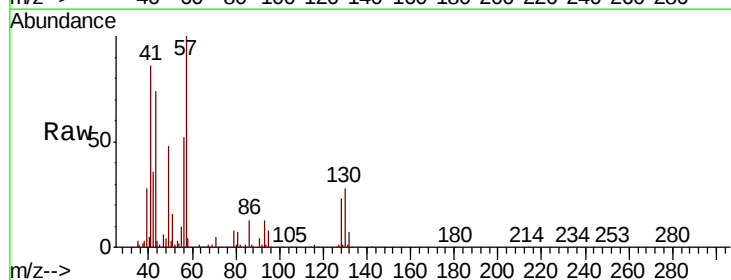
Instrument :
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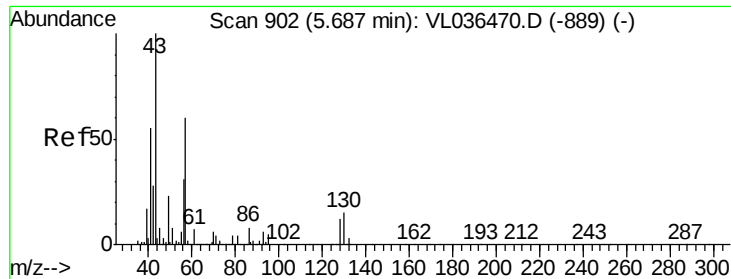
Tot Ion: 41 Resp: 20916
Ion Ratio Lower Upper
41 100
76 0.5 22.9 34.3#
39 0.0 67.3 100.9#



#25
Ethyl Acetate
Concen: 1.987 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion: 43 Resp: 588868
Ion Ratio Lower Upper
43 100
45 1.8 7.9 11.9#
61 0.8 7.4 11.2#
70 1.8 5.1 7.7#

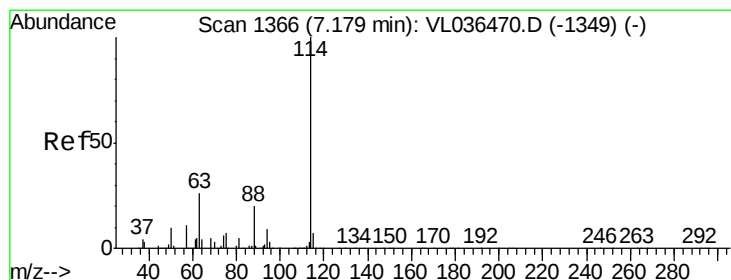
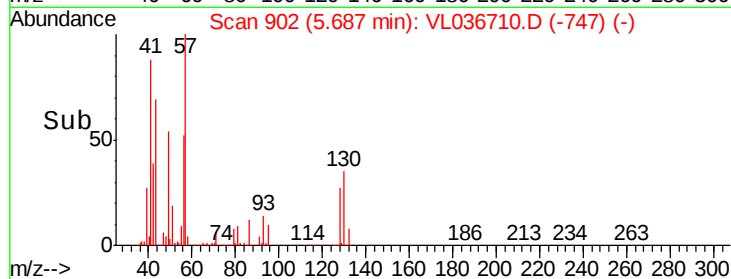
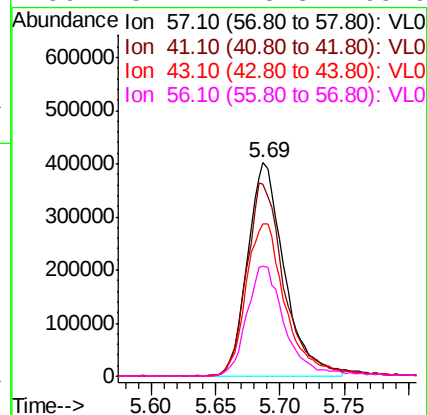
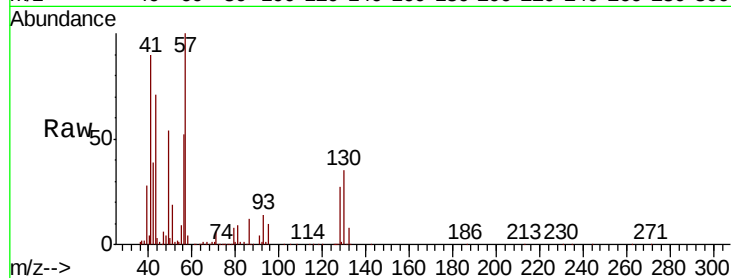




#26
Hexane
Concen: 5.792 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

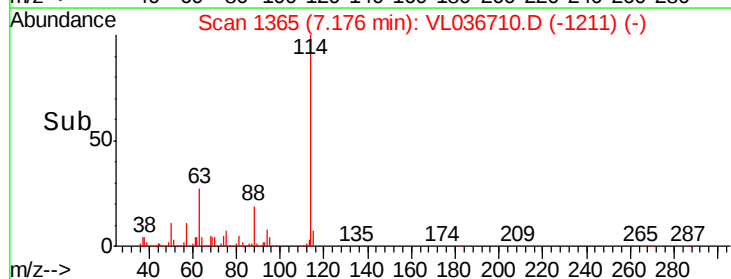
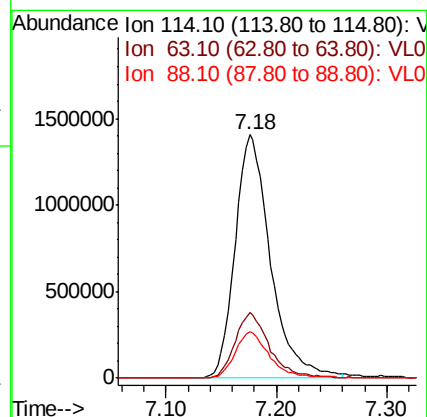
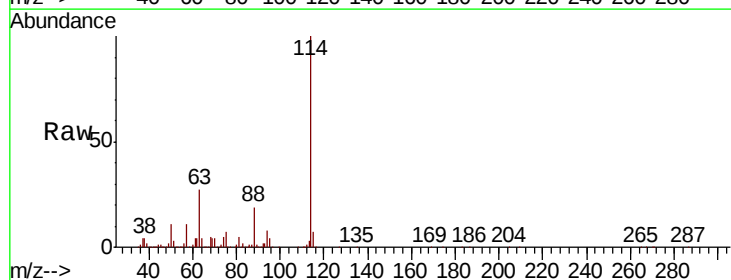
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-9(2021)DL

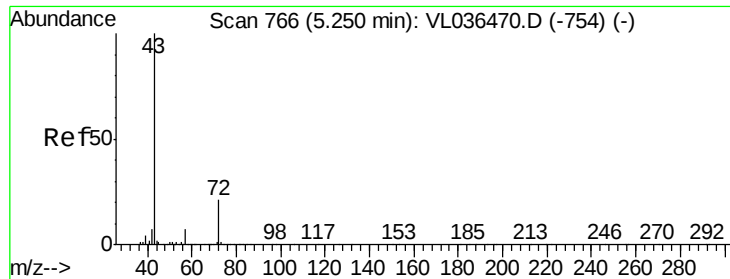
Tot Ion:	57	Resp:	796587
Ion	Ratio	Lower	Upper
57	100		
41	94.3	77.2	115.8
43	78.5	173.8	260.6#
56	54.4	43.8	65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion:	114	Resp:	3129699
Ion	Ratio	Lower	Upper
114	100		
63	26.6	22.4	33.6
88	18.8	15.4	23.0

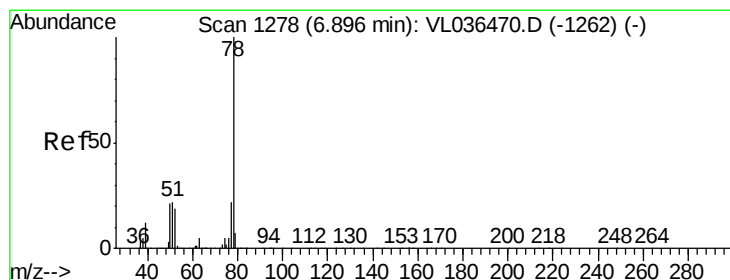
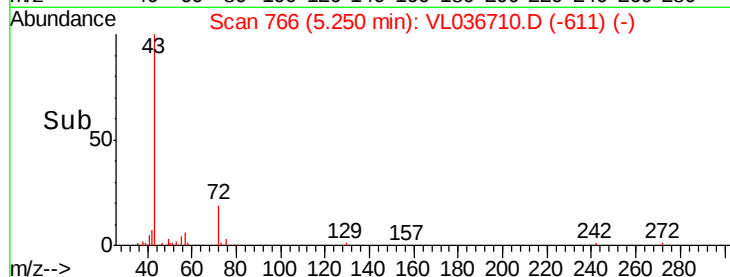
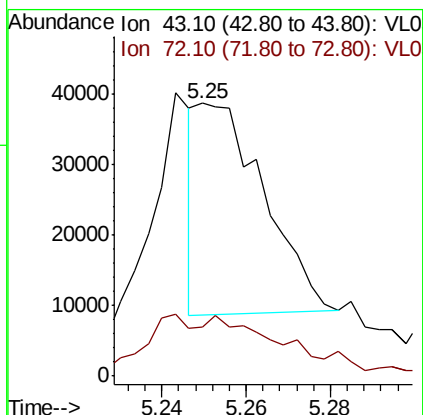
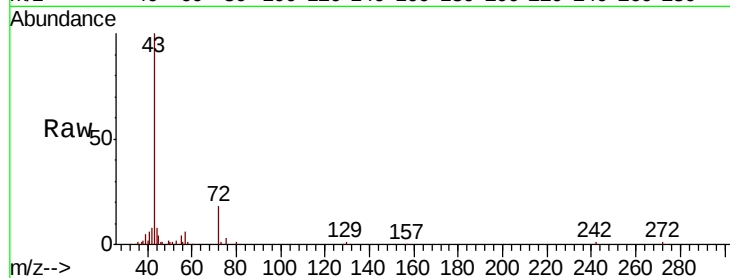




#34
2-Butanone
Concen: 0.213 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

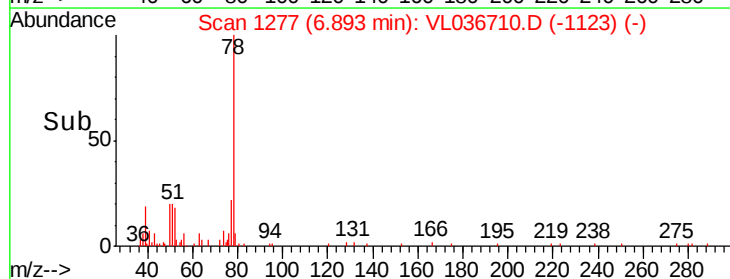
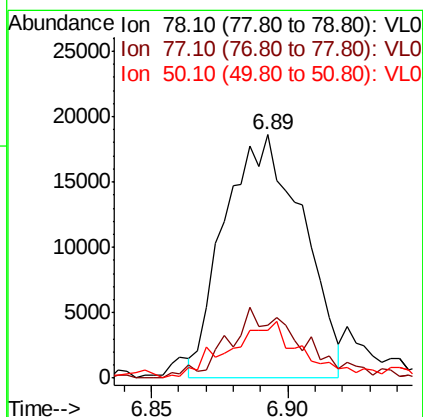
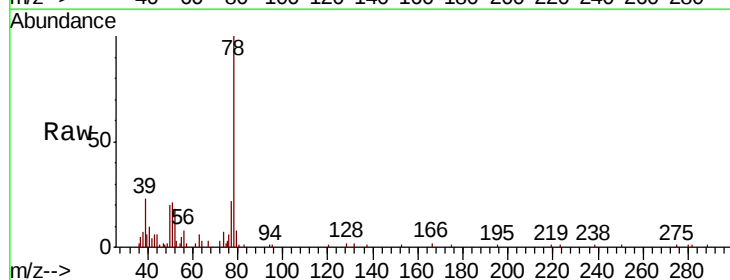
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-9(2021)DL

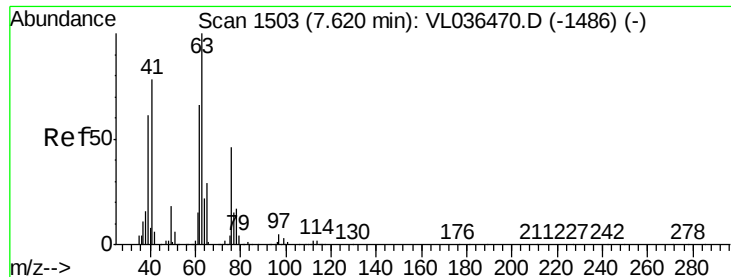
Tot Ion: 43 Resp: 32556
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#



#36
Benzene
Concen: 0.129 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion: 78 Resp: 37198
Ion Ratio Lower Upper
78 100
77 19.3 18.0 27.0
50 17.1 16.5 24.7





#39

1,2-Dichloropropane

Concen: 7.002 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036710.D

Acq: 6 Apr 2021 23:06

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)DL

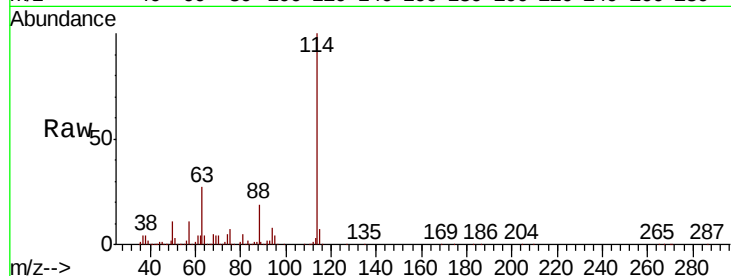
Tot Ion: 63 Resp: 819900

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

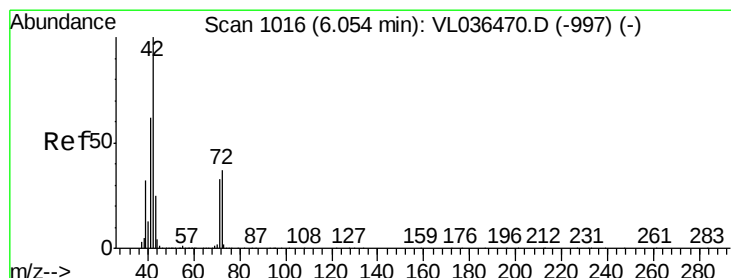
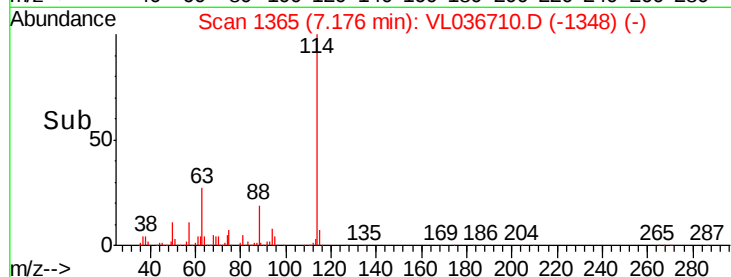
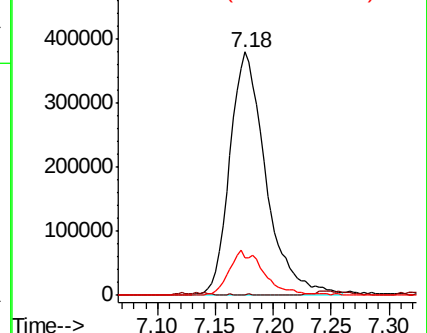
62 15.6 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 4.378 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.37 min

Lab File: VL036710.D

Acq: 6 Apr 2021 23:06

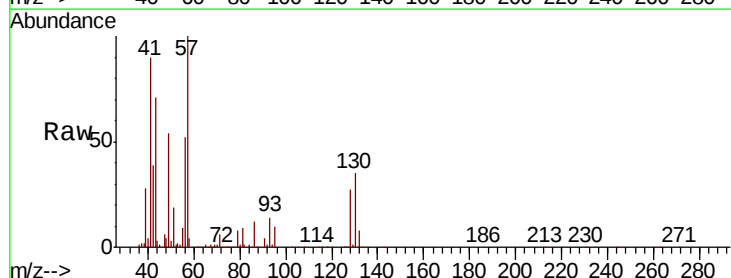
Tgt Ion: 42 Resp: 308410

Ion Ratio Lower Upper

42 100

72 1.0 27.6 41.4#

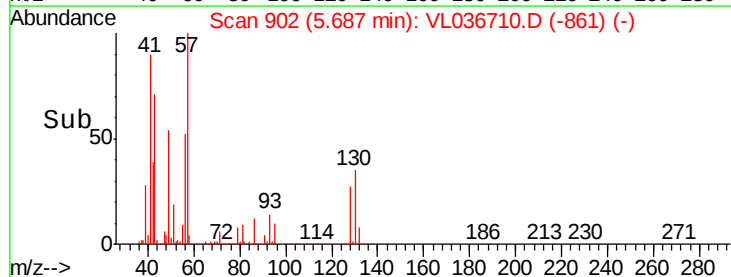
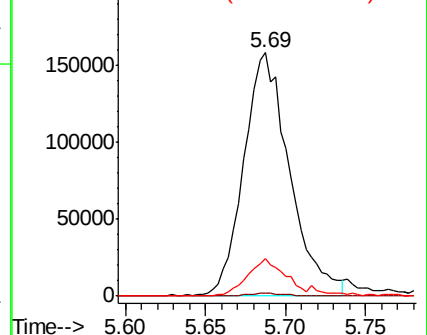
71 14.7 27.0 40.4#

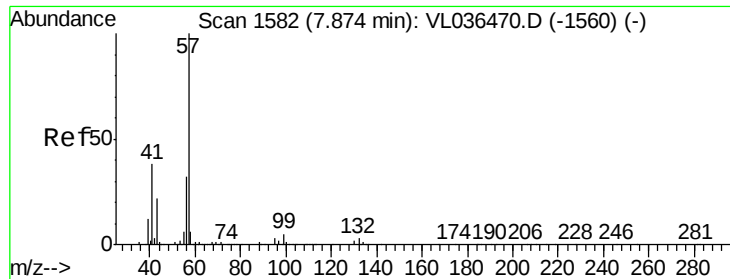


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

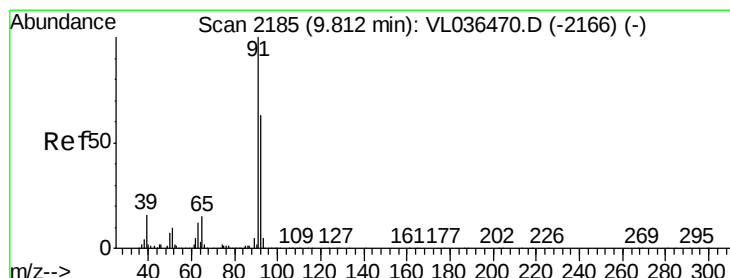
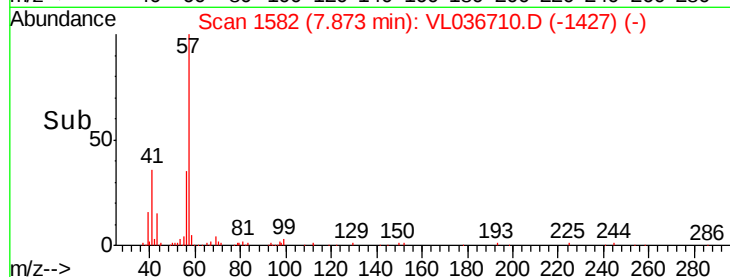
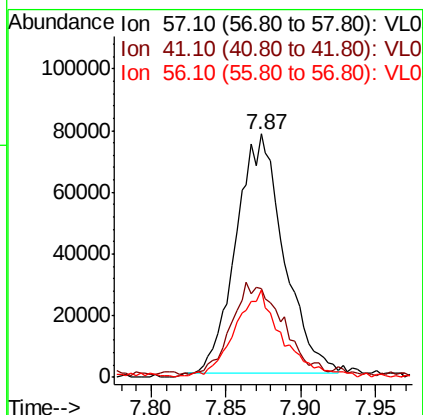
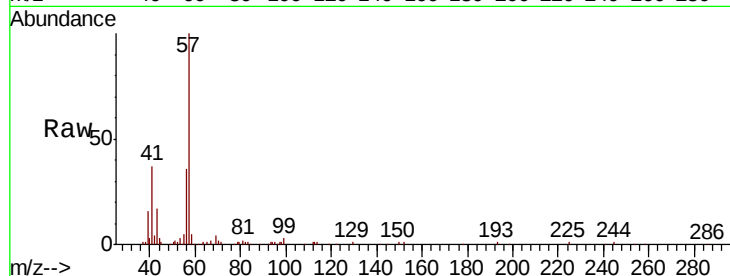




#44
 2,2,4-Trimethylpentane
 Concen: 0.341 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

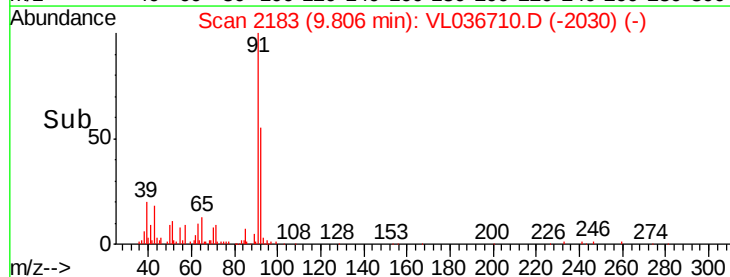
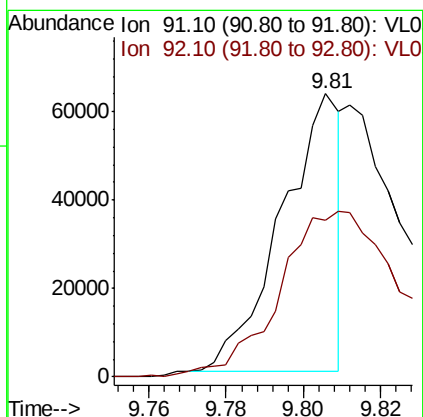
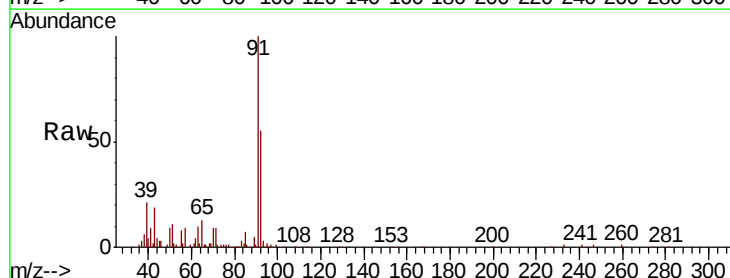
Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-9(2021)DL

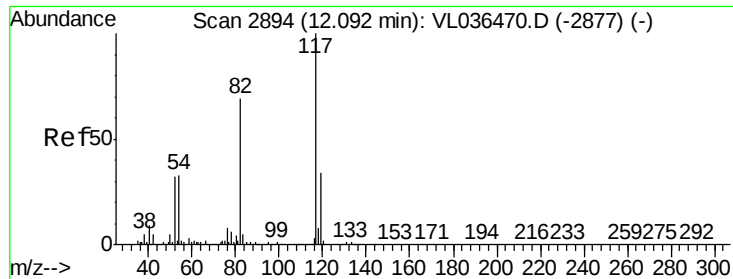
Tot Ion	57	Resp	173471
Ion	Ratio	Lower	Upper
57	100		
41	47.2	28.8	43.2#
56	35.6	26.1	39.1



#53
 Toluene
 Concen: 0.216 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. -0.01 min
 Lab File: VL036710.D
 Acq: 6 Apr 2021 23:06

Tgt Ion	91	Resp	66420
Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

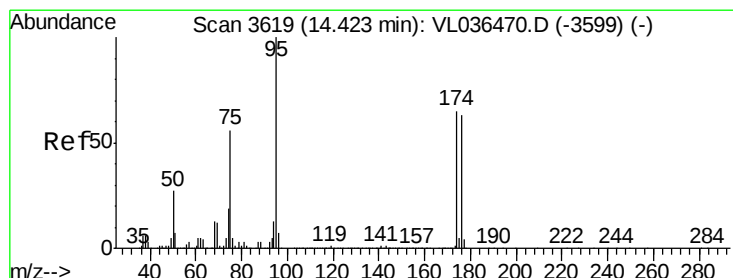
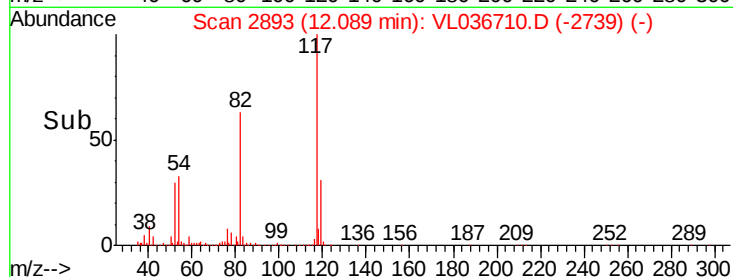
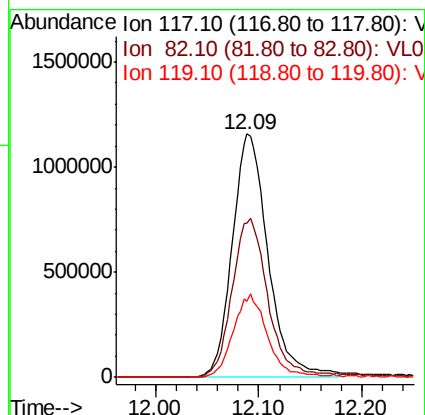
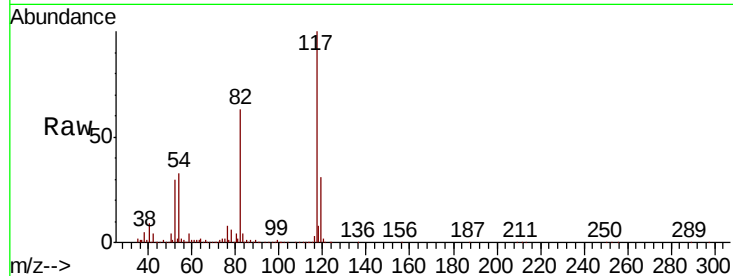




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-9(2021)DL

Tot Ion:117 Resp: 2797924
Ion Ratio Lower Upper
117 100
82 67.0 57.4 86.0
119 33.4 47.4 71.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.705 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036710.D
Acq: 6 Apr 2021 23:06

Tgt Ion: 95 Resp: 2164094
Ion Ratio Lower Upper
95 100
174 68.0 51.0 76.6
175 5.2 3.9 5.9

