

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036722.D
 Acq On : 7 Apr 2021 9:38
 Operator : SY/AP
 Sample : M1877-12
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
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 4/12/2021 11:12:13 AM

Quant Time: Apr 11 12:08:39 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 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	1219870	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2944003	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2665209	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2111195	9.94	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	86873	0.437	ppbv	91
4) Chloromethane	3.13	50	47721m	0.593	ppbv	
9) Propene	3.02	41	101219m	1.393	ppbv	
11) Trichlorofluoromethane	3.94	101	47898	0.236	ppbv	88
13) Ethanol	3.63	45	13308091	1538.070	ppbv	96
15) Acetone	3.84	43	1606735	13.382	ppbv	97
19) Isopropyl Alcohol	3.99	45	21584060	326.801	ppbv #	94
20) Methylene Chloride	4.34	84	1329744	23.655	ppbv	93
26) Hexane	5.68	57	1446997	10.924	ppbv #	48
30) Cyclohexane	7.16	84	19483m	0.181	ppbv	
34) 2-Butanone	5.25	43	129164m	0.899	ppbv	
35) Carbon Tetrachloride	7.01	117	12834m	0.057	ppbv	
36) Benzene	6.89	78	58735	0.216	ppbv #	92
44) 2,2,4-Trimethylpentane	7.87	57	254048	0.532	ppbv #	88
53) Toluene	9.80	91	210626	0.728	ppbv	98
59) m/p-Xylene	12.97	91	41947m	0.124	ppbv	

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

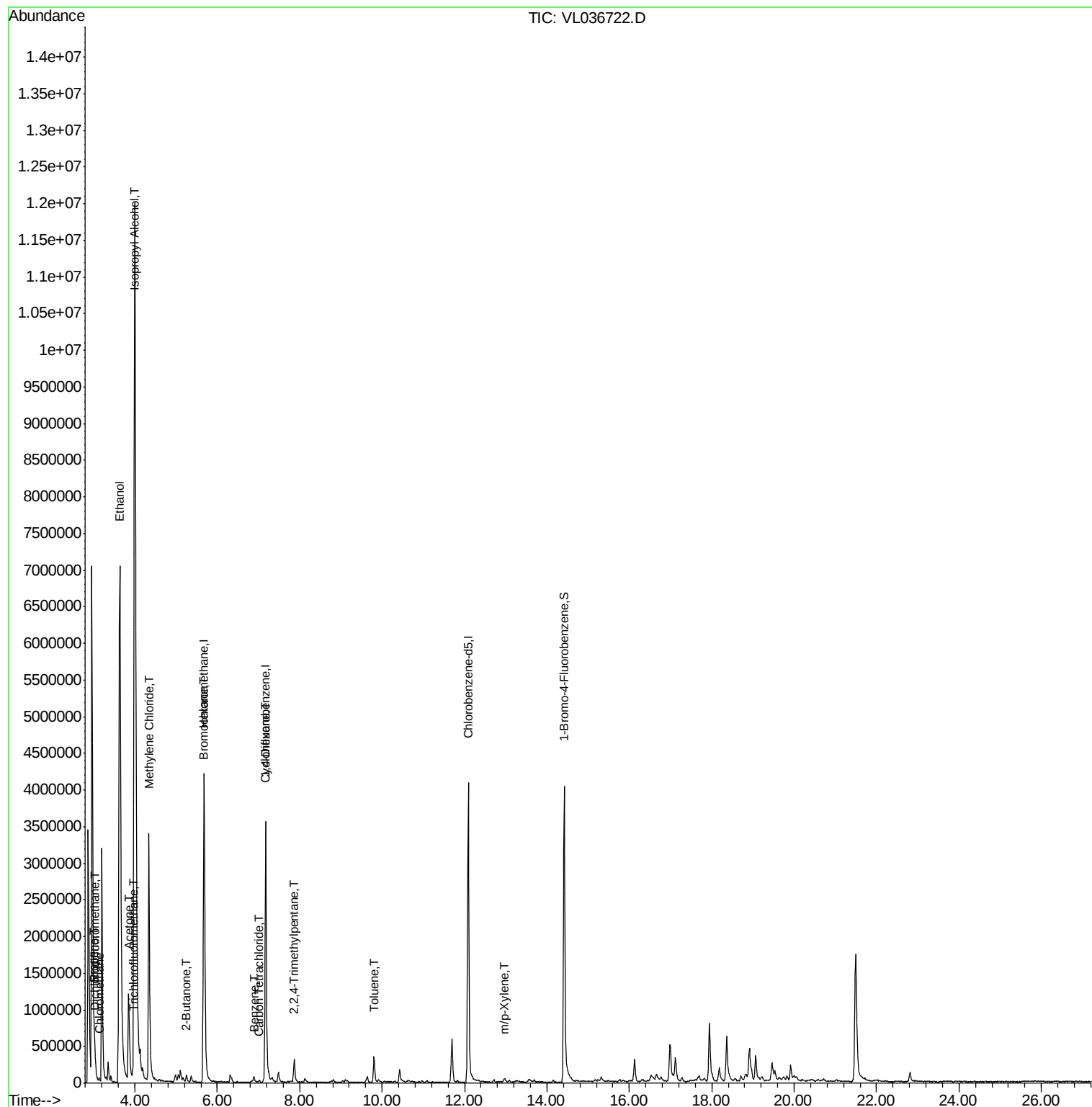
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040621\
Data File : VL036722.D
Acq On : 7 Apr 2021 9:38
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Misc : 400mL/MSVOA L
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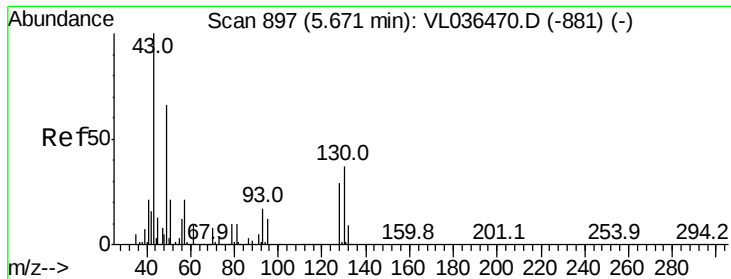
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-9(2021)

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4/12/2021 11:12:13 AM

Quant Time: Apr 11 12:08:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)

Tot Ion: 49 Resp: 1219870

Ion Ratio Lower Upper

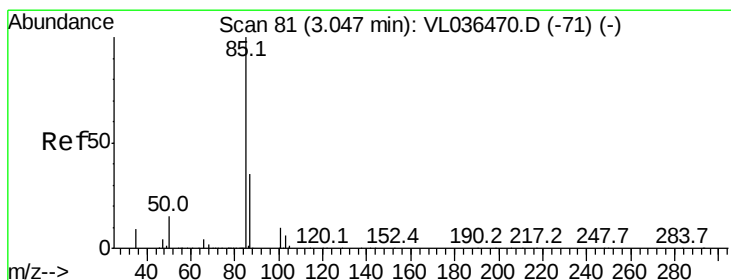
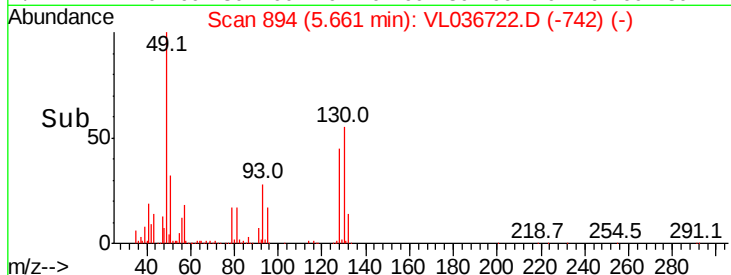
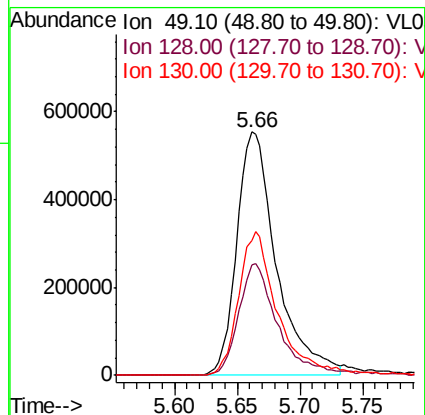
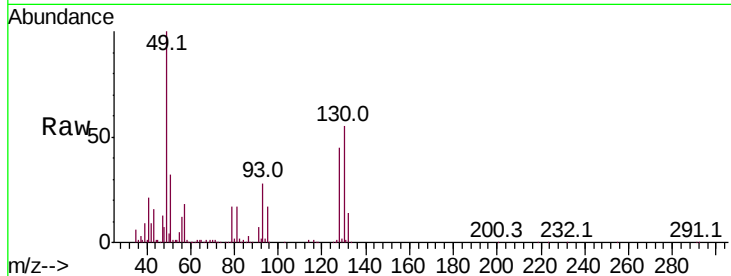
49 100

128 46.6 23.5 70.6

130 58.7 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.437 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036722.D

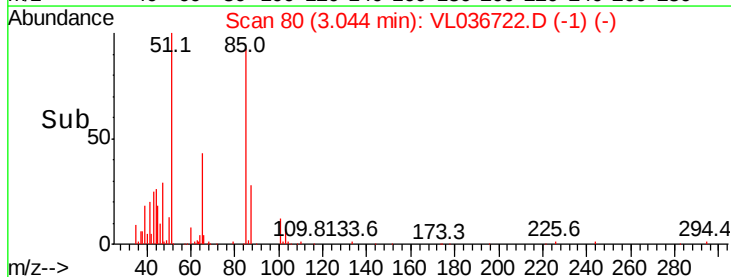
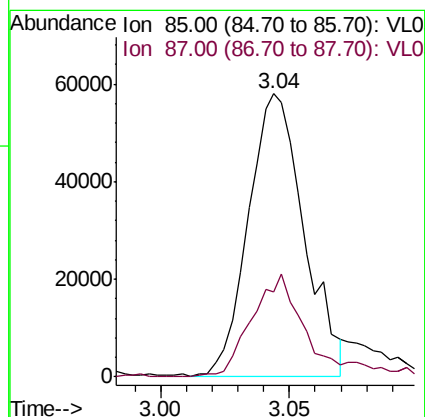
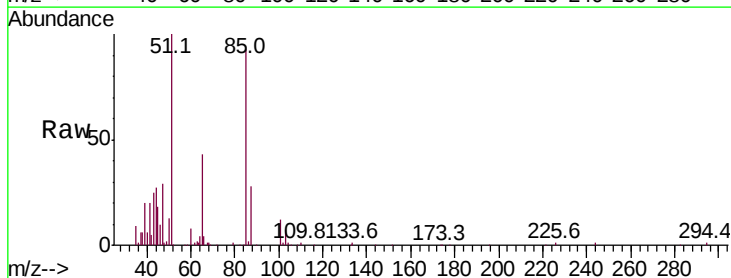
Acq: 7 Apr 2021 9:38

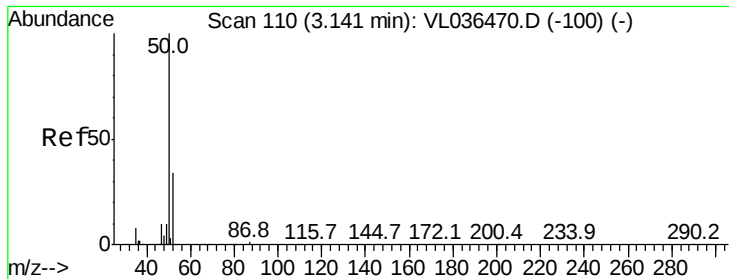
Tgt Ion: 85 Resp: 86873

Ion Ratio Lower Upper

85 100

87 29.8 27.8 41.8





#4

Chloromethane

Concen: 0.593 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)

Tot Ion: 50 Resp: 47721

Ion Ratio Lower Upper

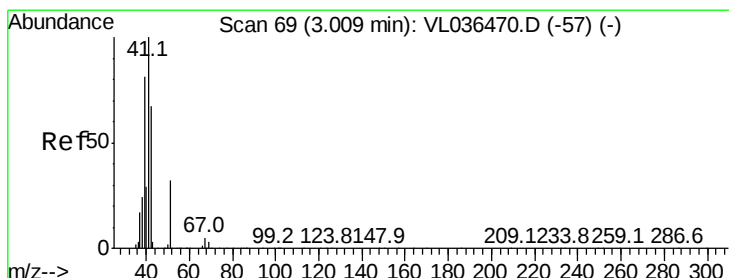
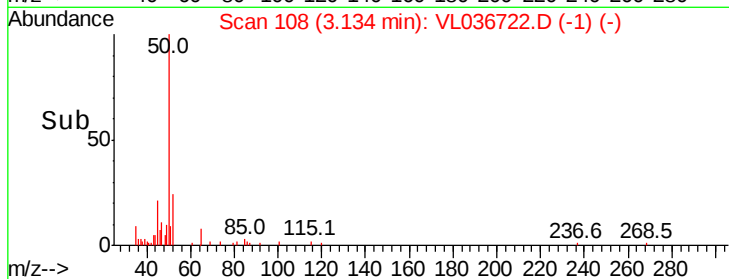
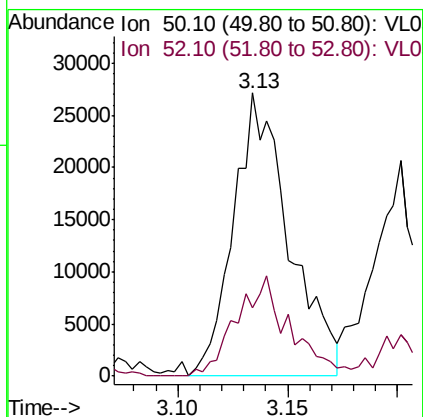
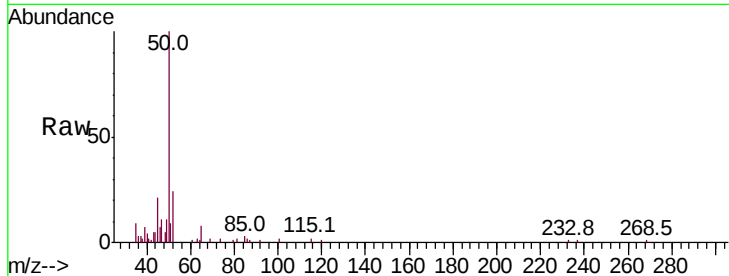
50 100

52 24.0 27.0 40.6#

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#9

Propene

Concen: 1.393 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036722.D

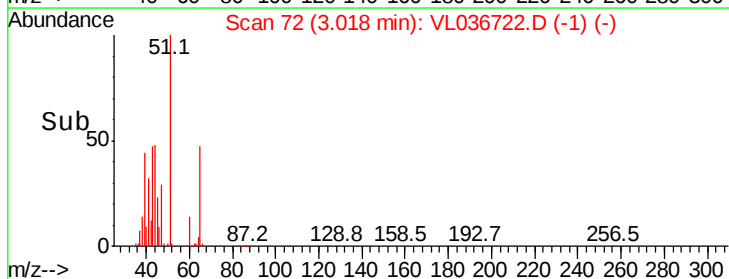
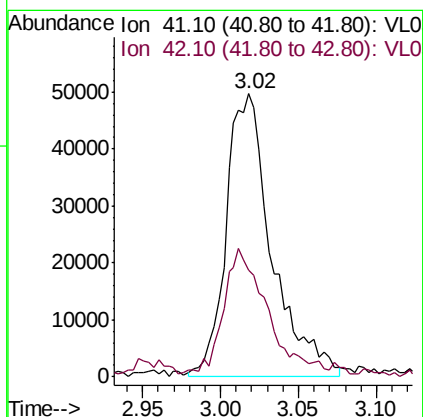
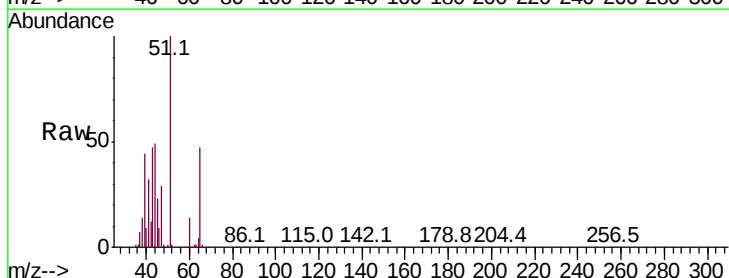
Acq: 7 Apr 2021 9:38

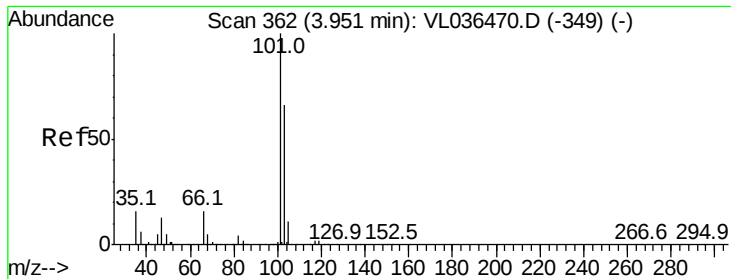
Tgt Ion: 41 Resp: 101219

Ion Ratio Lower Upper

41 100

42 741.1 57.0 85.4#





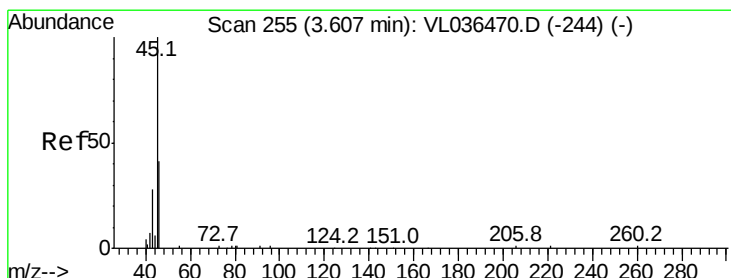
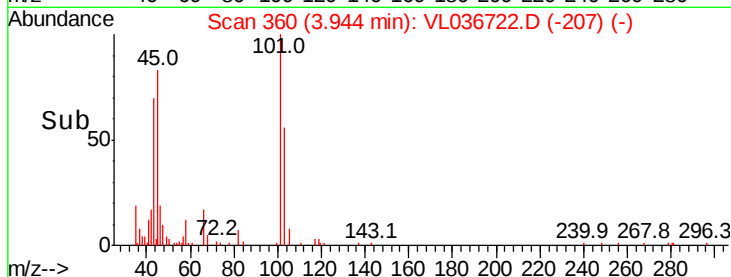
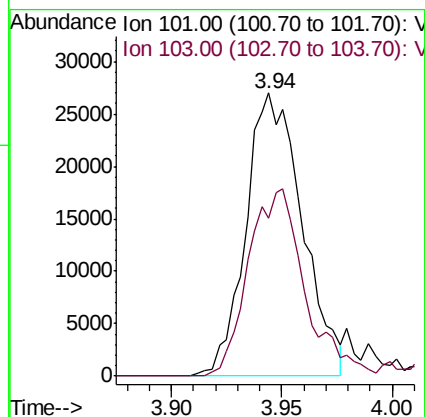
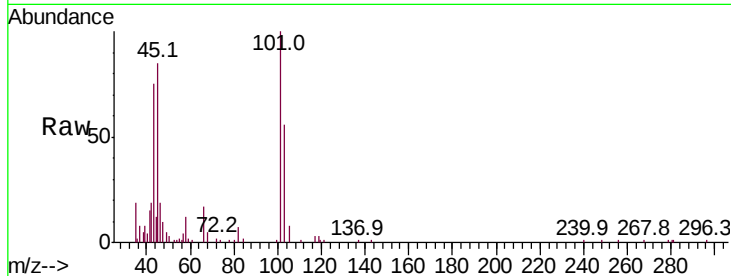
#11
Trichlorofluoromethane
Concen: 0.236 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.01 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

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

Tot Ion:101 Resp: 47898
Ion Ratio Lower Upper
101 100
103 55.9 52.5 78.7

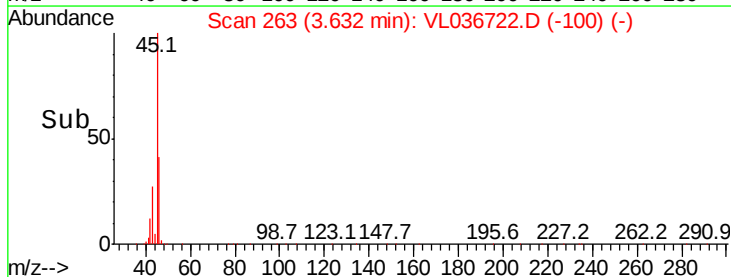
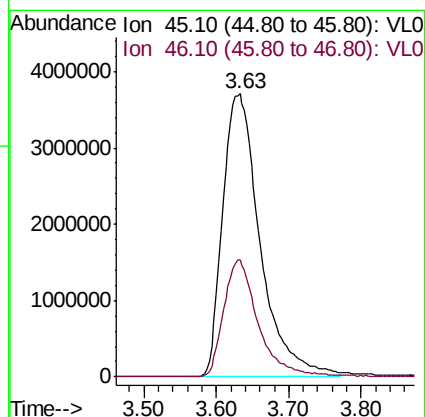
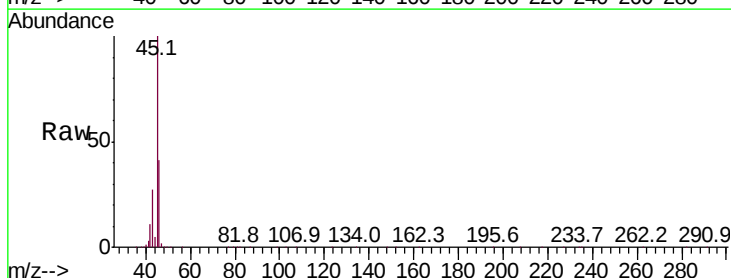
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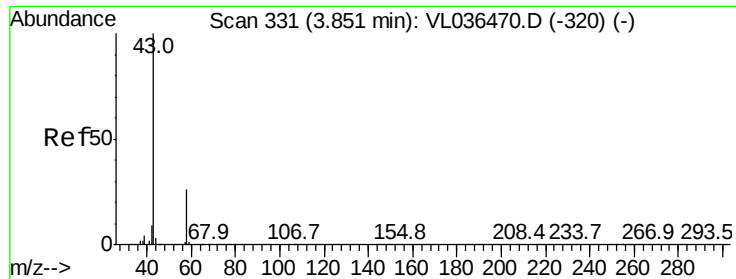
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#13
Ethanol
Concen: 1538.070 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.03 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

Tgt Ion: 45 Resp:13308091
Ion Ratio Lower Upper
45 100
46 38.7 16.6 66.2





#15

Acetone

Concen: 13.382 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)

Tot Ion: 43 Resp: 1606735

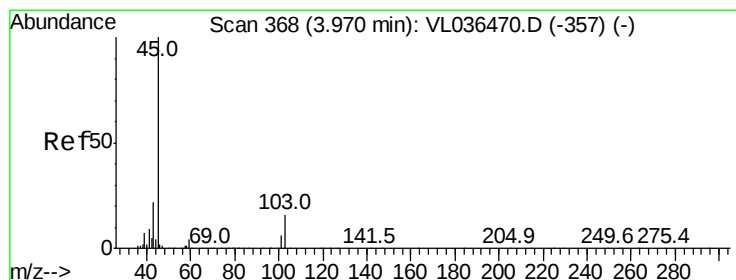
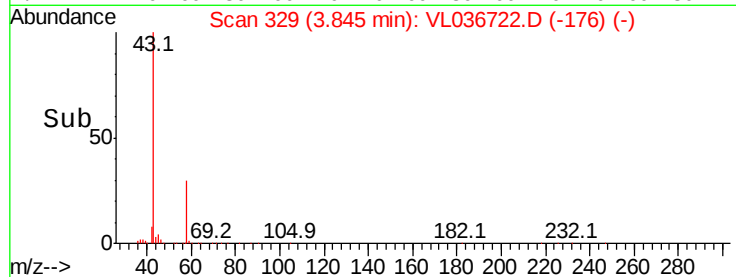
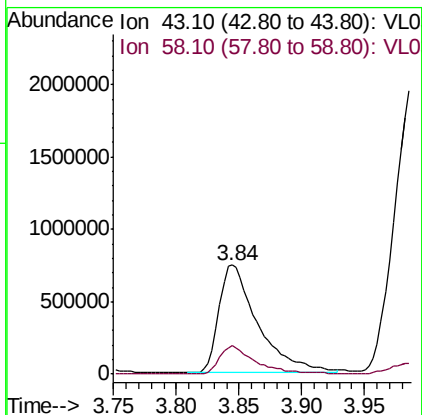
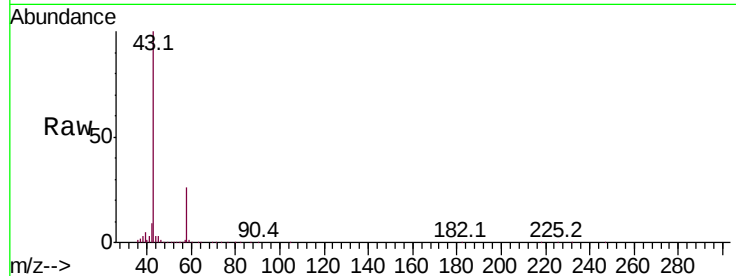
Ion Ratio Lower Upper

43 100

58 25.1 21.2 31.8

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#19

Isopropyl Alcohol

Concen: 326.801 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL036722.D

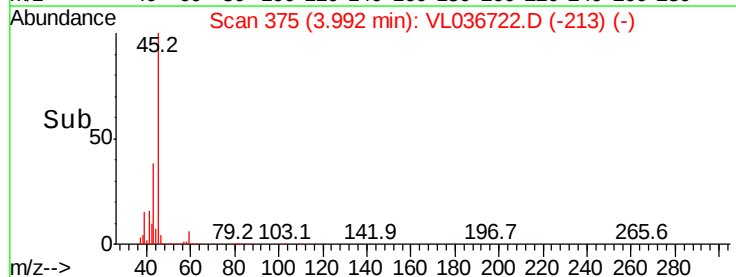
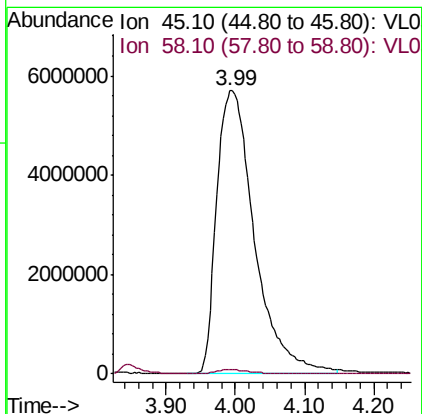
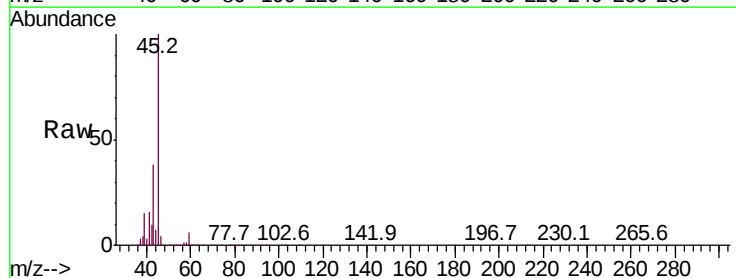
Acq: 7 Apr 2021 9:38

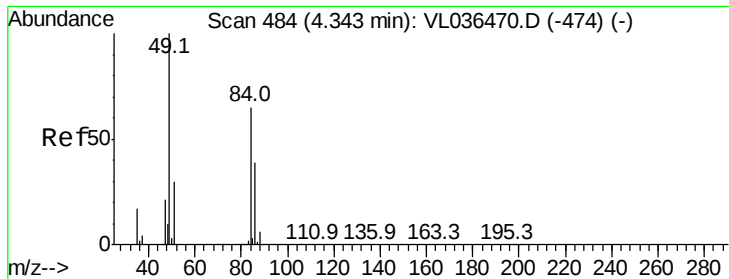
Tgt Ion: 45 Resp: 21584060

Ion Ratio Lower Upper

45 100

58 1.5 2.9 4.3#





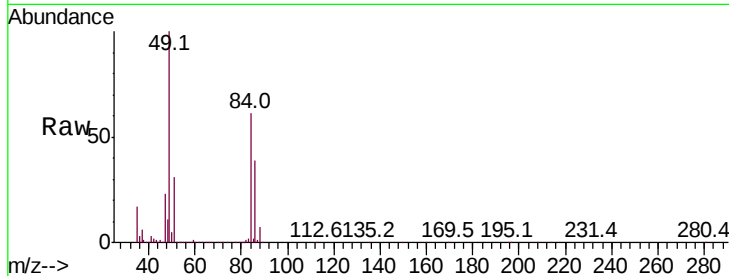
#20
Methvlene Chloride
Concen: 23.655 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

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

Tot Ion	84	Resp	1329744
Ion	Ratio	Lower	Upper
84	100		
49	164.2	122.9	184.3
51	51.0	36.9	55.3
86	63.7	48.2	72.4

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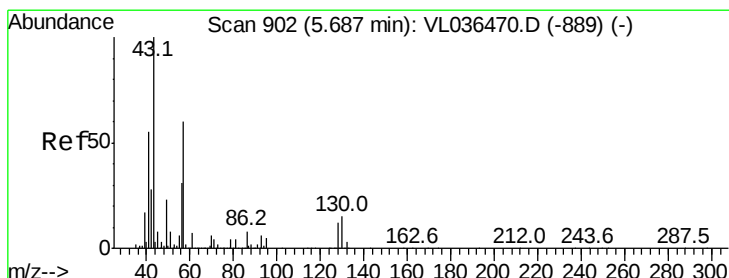
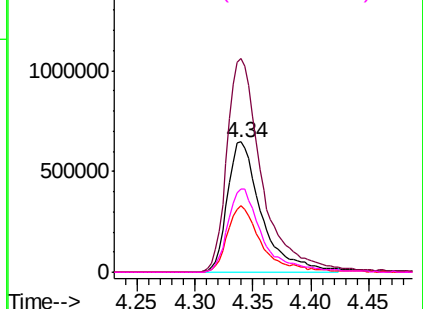
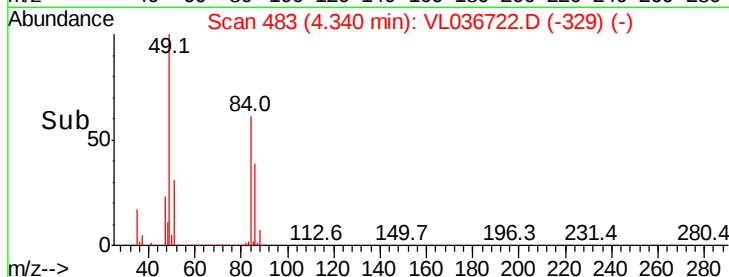
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

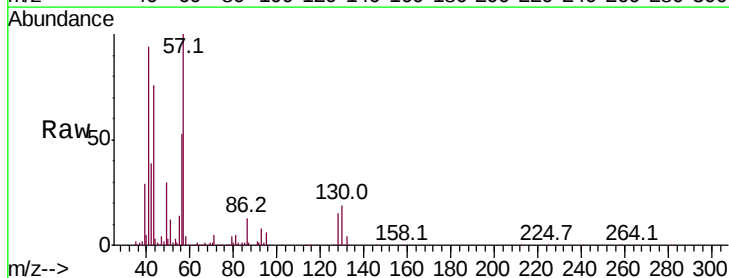
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 10.924 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

Tgt Ion	57	Resp	1446997
Ion	Ratio	Lower	Upper
57	100		
41	96.8	77.2	115.8
43	76.6	173.8	260.6#
56	55.6	43.8	65.6



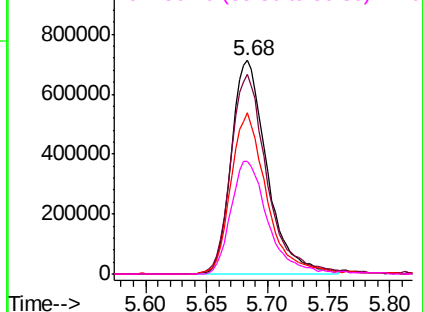
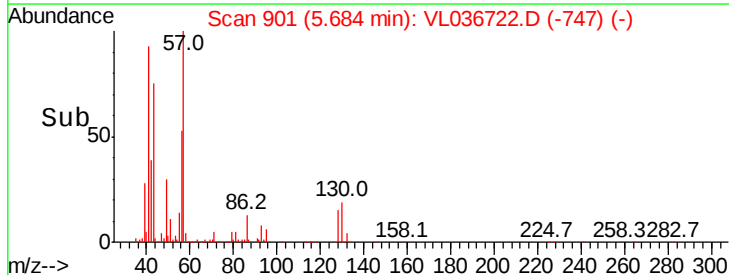
Abundance

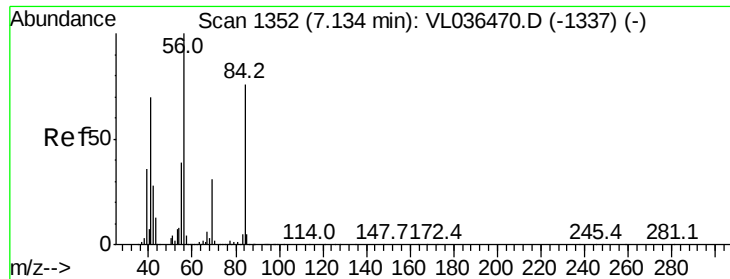
Ion 57.10 (56.80 to 57.80): VL0

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





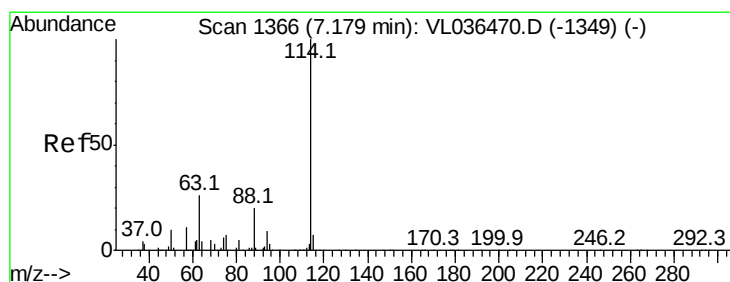
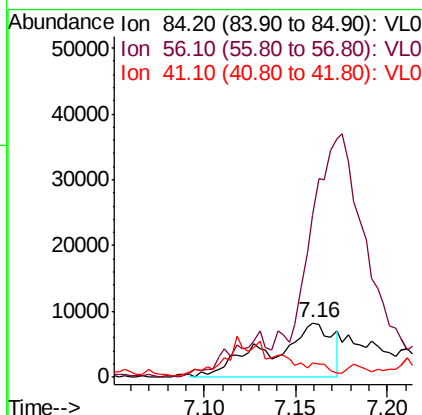
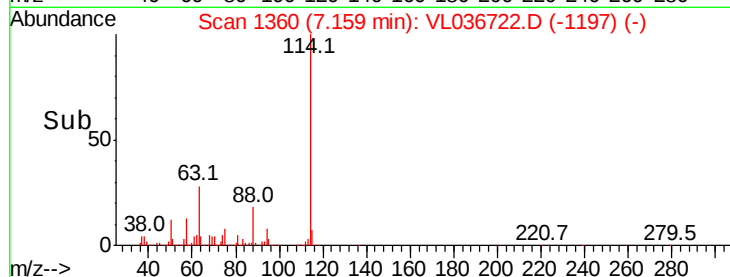
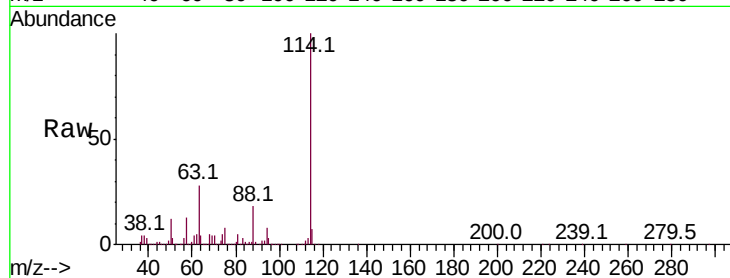
#30
Cvclohexane
Concen: 0.181 ppbv m
RT: 7.16 min Scan# 1360
Delta R.T. 0.03 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

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

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	58.9	75.3	112.9#

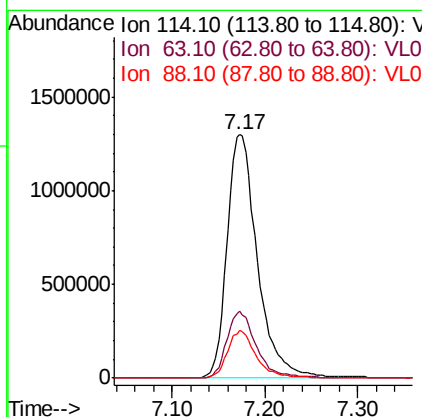
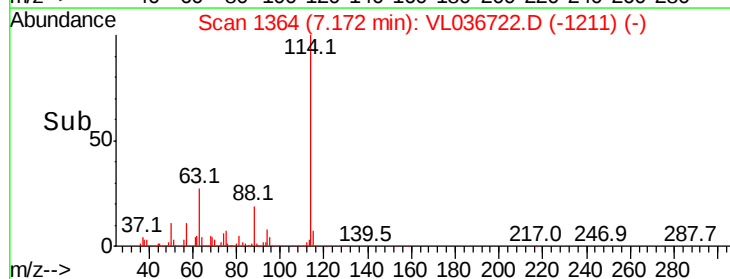
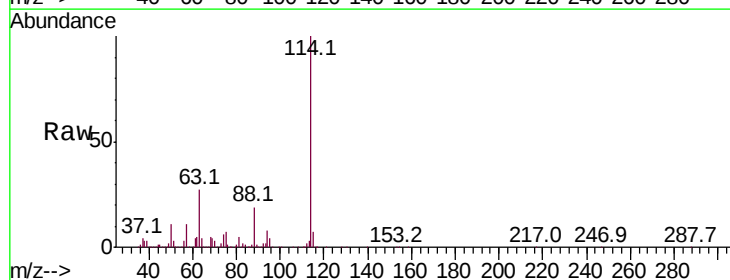
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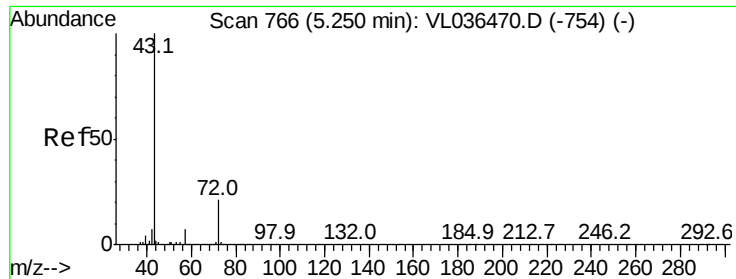
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.4	33.6
88	18.6	15.4	23.0





#34

2-Butanone

Concen: 0.899 ppbv m

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)

Tot Ion: 43 Resp: 129164

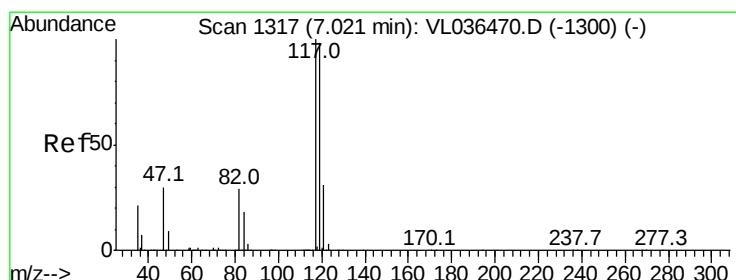
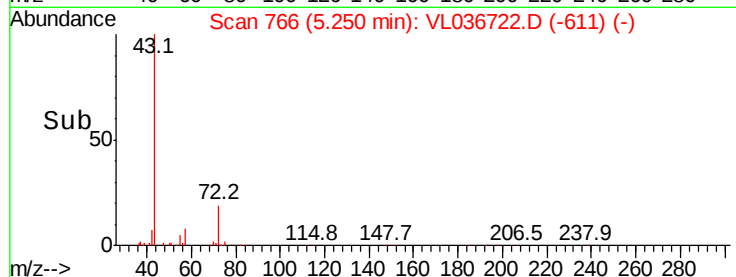
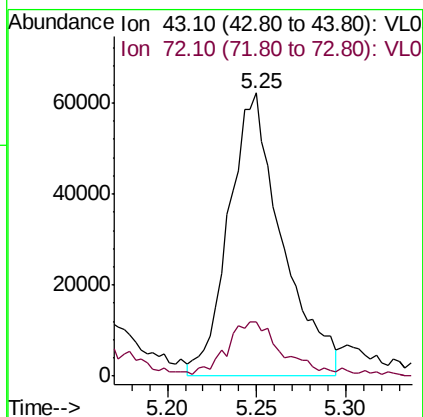
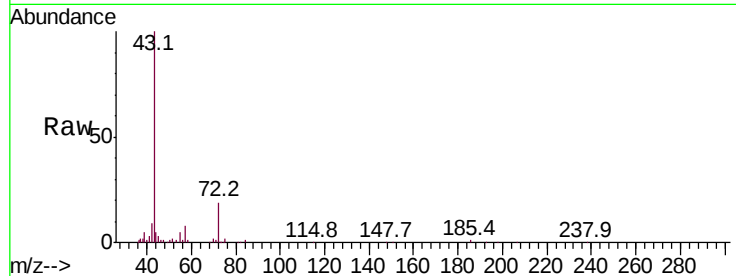
Ion Ratio Lower Upper

43 100

72 0.0 17.0 25.6#

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

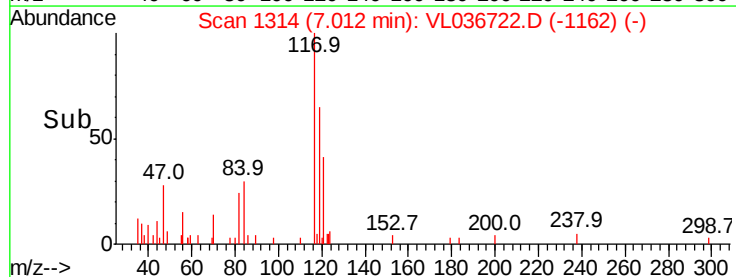
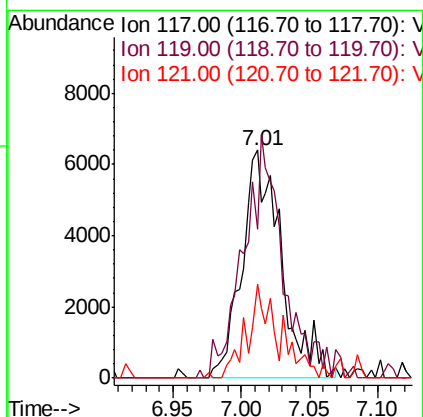
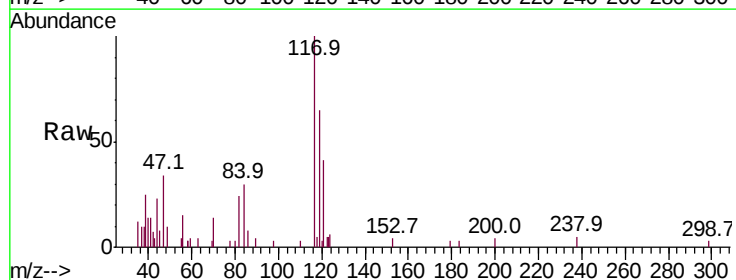
Tgt Ion: 117 Resp: 12834

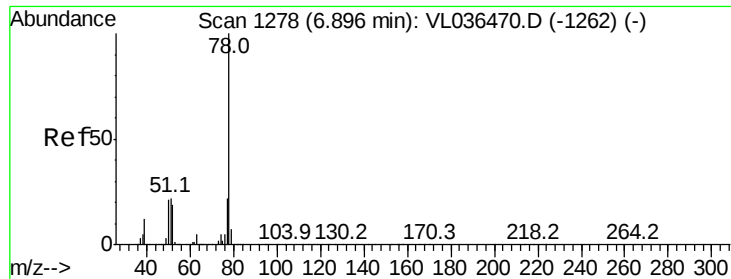
Ion Ratio Lower Upper

117 100

119 65.2 78.2 117.2#

121 41.2 24.5 36.7#





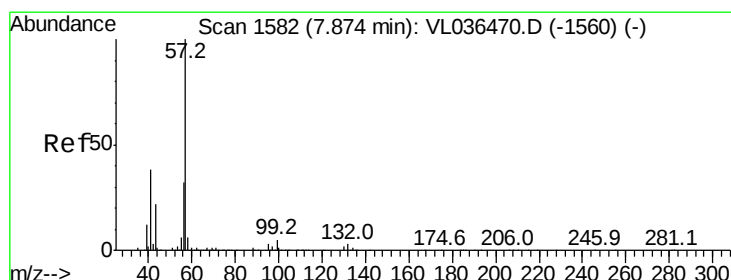
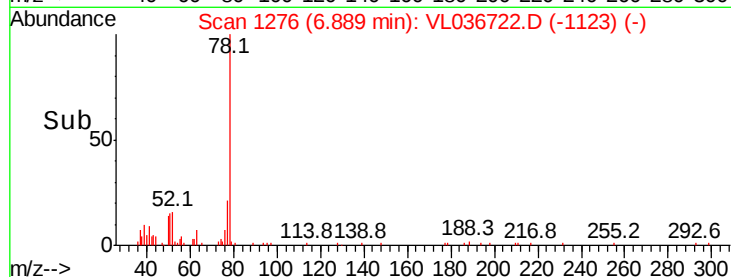
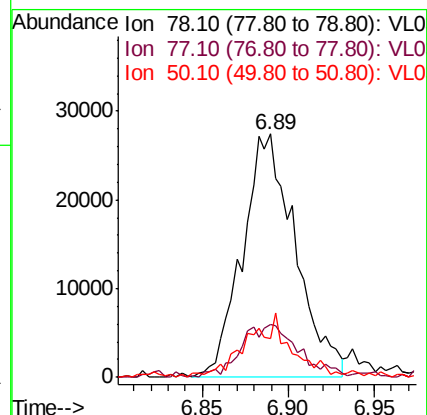
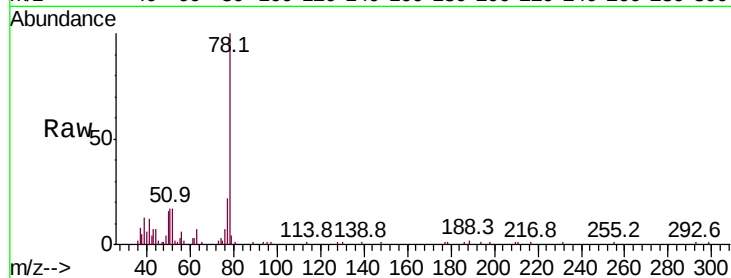
#36
Benzene
Concen: 0.216 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

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

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.7	18.0	27.0
50	14.7	16.5	24.7

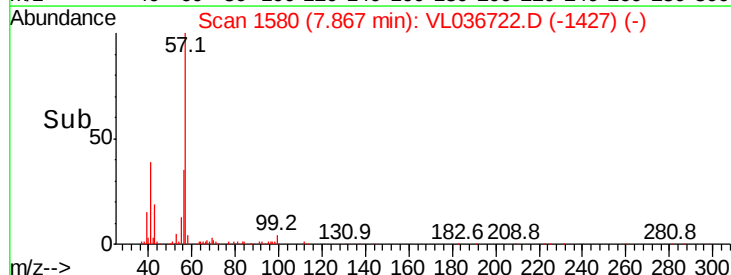
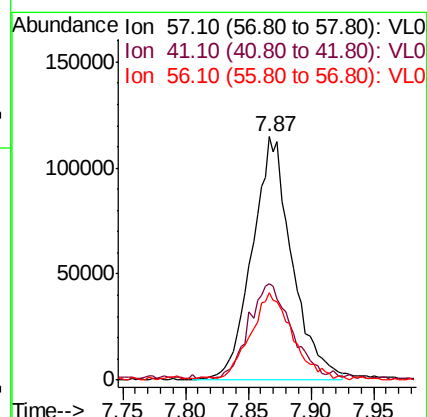
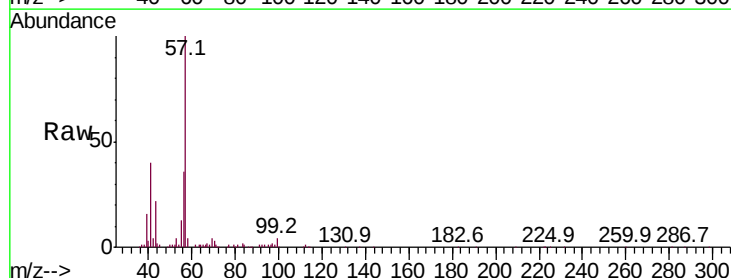
Manual Integrations
APPROVED

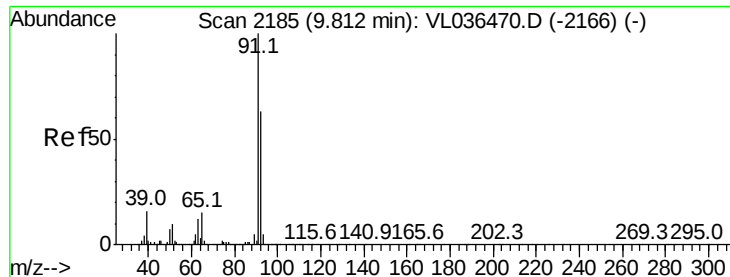
MMDadoda
4/12/2021 11:12:13 AM



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.0	28.8	43.2
56	38.3	26.1	39.1





#53

Toluene

Concen: 0.728 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-9(2021)

Tot Ion: 91 Resp: 210626

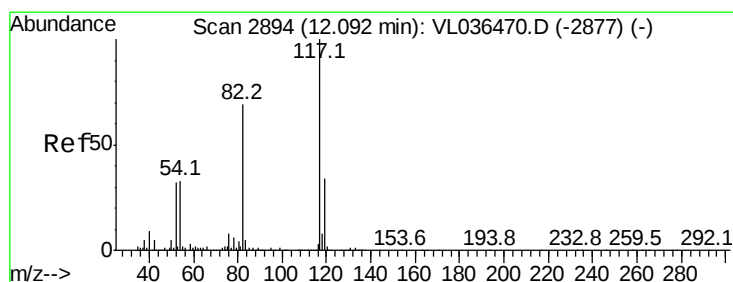
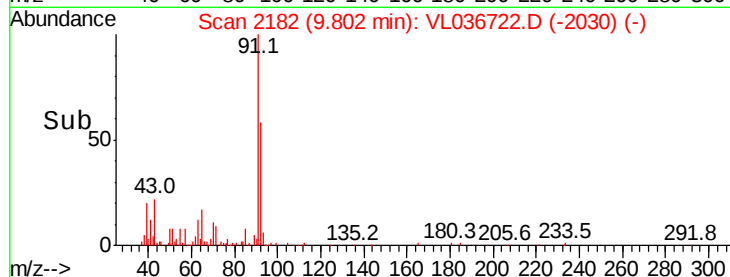
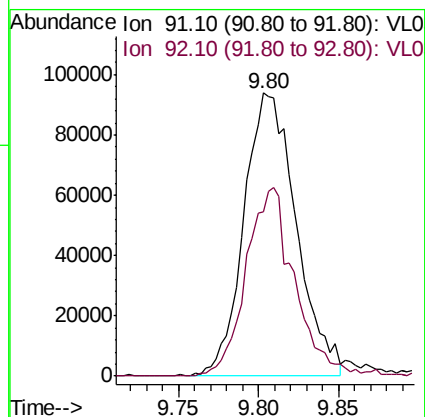
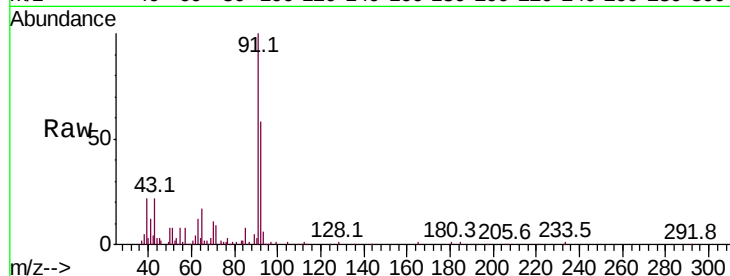
Ion Ratio Lower Upper

91 100

92 62.3 48.8 73.2

Manual Integrations
APPROVED

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4/12/2021 11:12:13 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036722.D

Acq: 7 Apr 2021 9:38

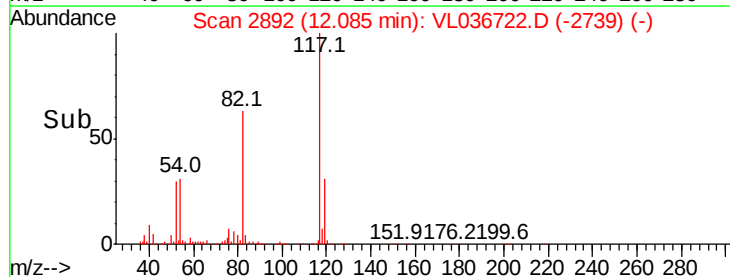
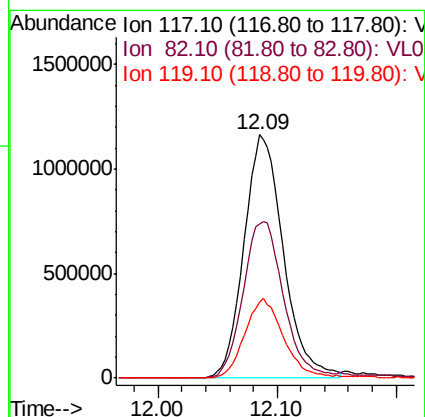
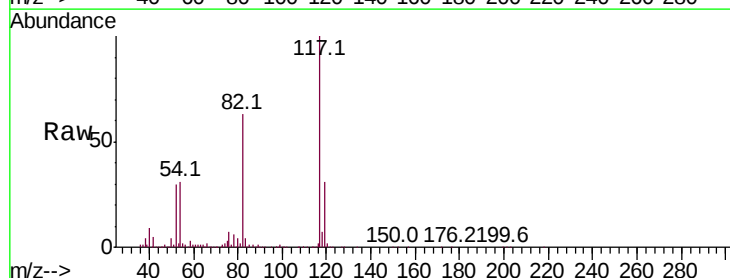
Tgt Ion: 117 Resp: 2665209

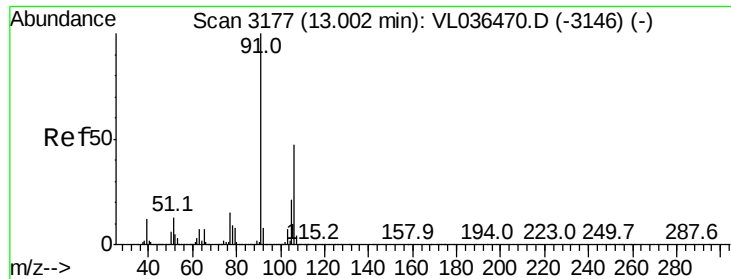
Ion Ratio Lower Upper

117 100

82 69.2 57.4 86.0

119 33.5 47.4 71.0#





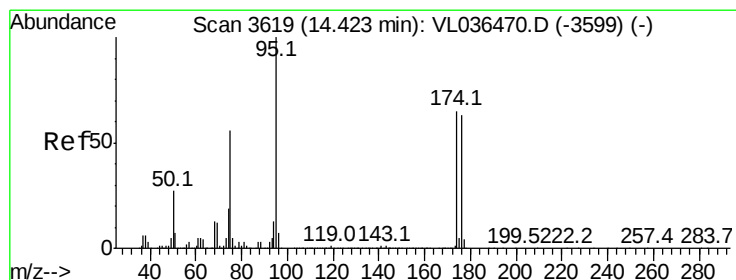
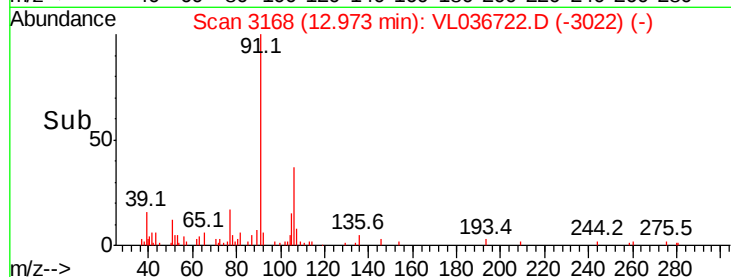
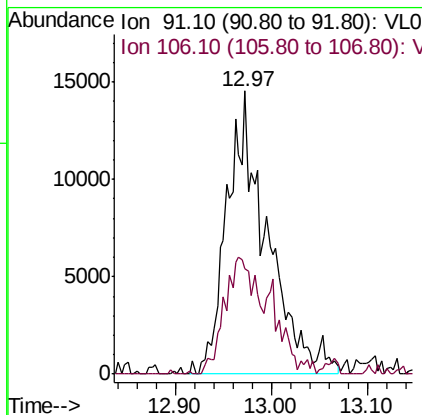
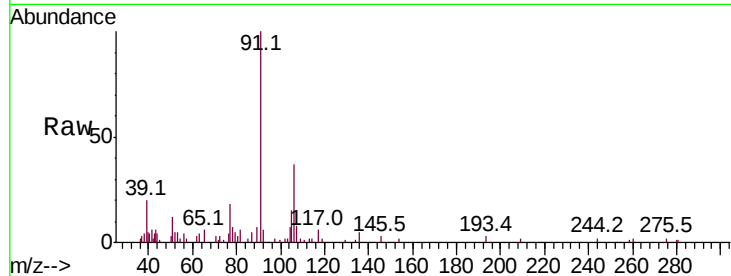
#59
m/p-Xylene
Concen: 0.124 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

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

Tot Ion: 91 Resp: 41947
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
APPROVED

MMDadoda
4/12/2021 11:12:13 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.939 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036722.D
Acq: 7 Apr 2021 9:38

Tgt Ion: 95 Resp: 2111195
Ion Ratio Lower Upper
95 100
174 64.5 51.0 76.6
175 4.6 3.9 5.9

