

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022621\
 Data File : VL036400.D
 Acq On : 26 Feb 2021 13:32
 Operator : SY/AP
 Sample : M1502-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 27 03:16:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1471960	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	3223706	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2896426	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2356549	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

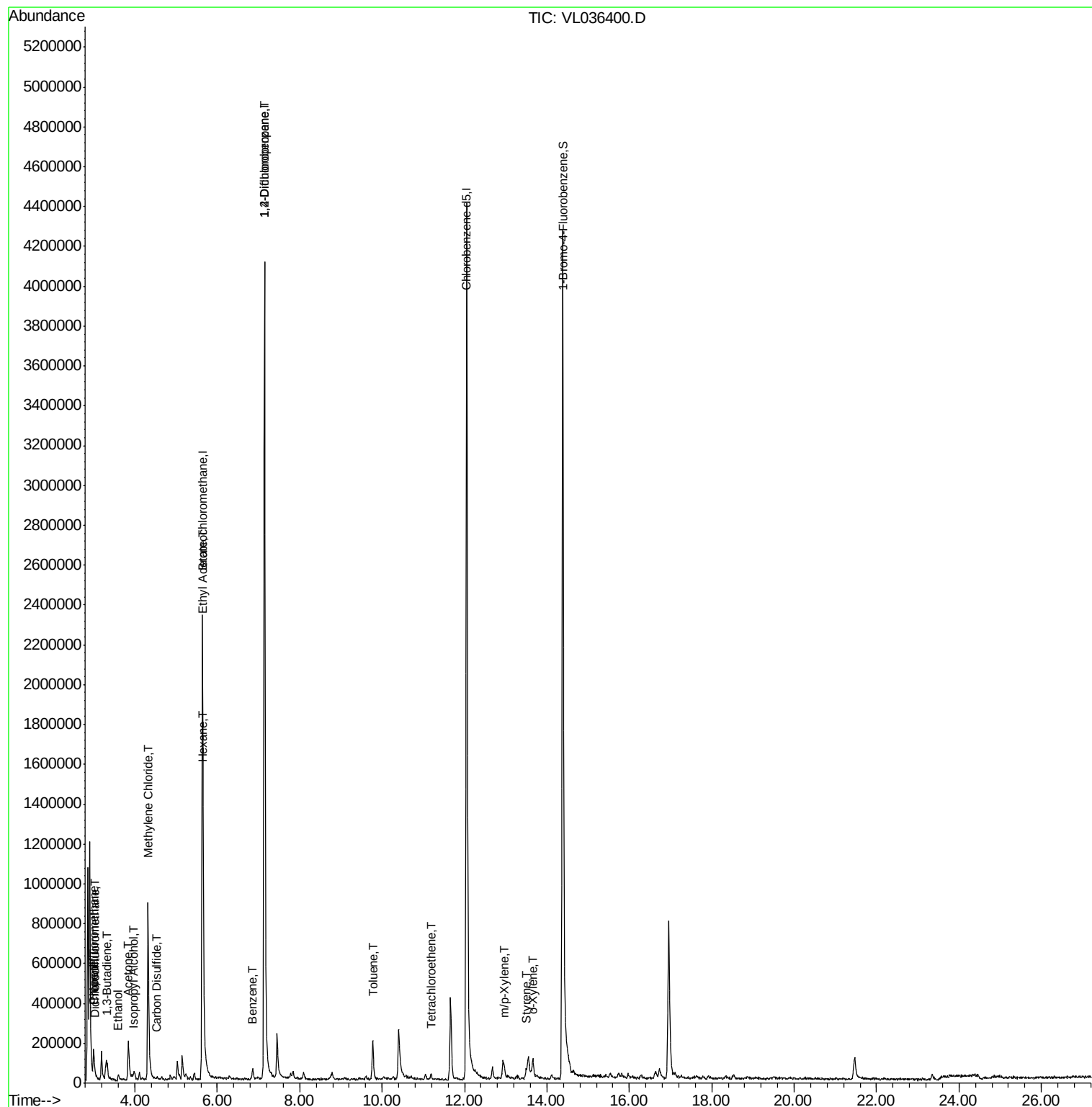
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	11350	0.052	ppbv	95
3) Chlorodifluoromethane	3.01	51	14318	0.078	ppbv #	68
9) Propene	3.00	41	55406	0.813	ppbv	99
13) Ethanol	3.58	45	11844	0.925	ppbv #	32
15) Acetone	3.84	43	246635	1.371	ppbv #	78
16) 1,3-Butadiene	3.31	39	37438	0.435	ppbv #	80
19) Isopropyl Alcohol	3.95	45	6348	0.064	ppbv #	93
20) Methylene Chloride	4.32	84	354671	6.110	ppbv	91
25) Ethyl Acetate	5.65	43	39043	0.112	ppbv #	83
26) Hexane	5.66	57	23256	0.163	ppbv #	1
27) Carbon Disulfide	4.53	76	6191	0.047	ppbv #	87
36) Benzene	6.87	78	12343	0.045	ppbv	96
39) 1,2-Dichloropropane	7.14	63	930110	8.361	ppbv #	22
52) Tetrachloroethene	11.19	164	3278	0.033	ppbv #	70
53) Toluene	9.78	91	131993	0.445	ppbv	98
59) m/p-Xylene	12.95	91	27615	0.079	ppbv #	33
60) o-Xylene	13.66	91	29875	0.090	ppbv #	32
61) Styrene	13.50	104	16033	0.078	ppbv #	30

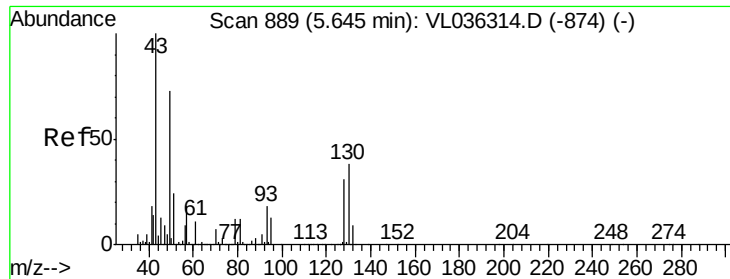
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 27 03:16:31 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Instrument :

MSVOA_L

ClientSampleId :

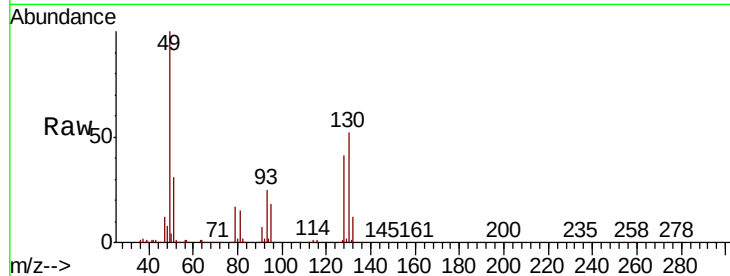
Tot Ion: 49 Resp: 1471960

Ion Ratio Lower Upper

49 100

128 43.1 20.8 62.5

130 54.4 26.7 80.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

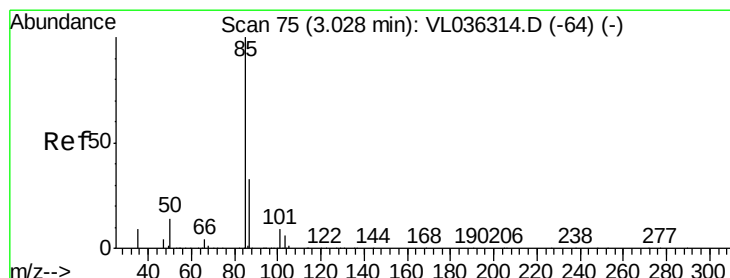
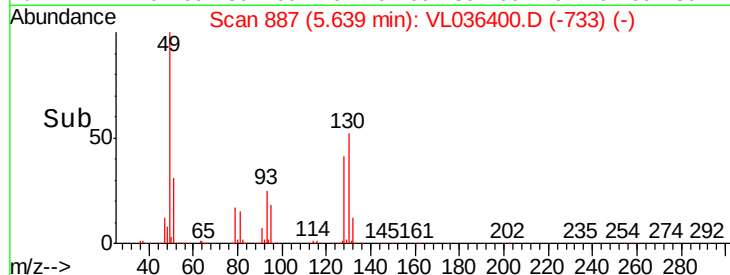
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.052 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL036400.D

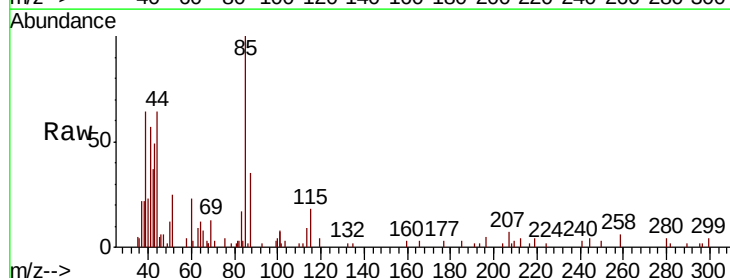
Acq: 26 Feb 2021 13:32

Tgt Ion: 85 Resp: 11350

Ion Ratio Lower Upper

85 100

87 30.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000

8000

6000

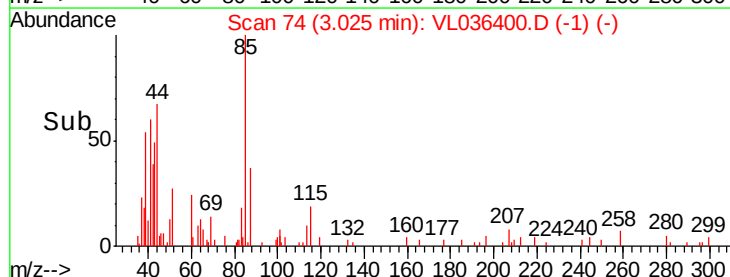
4000

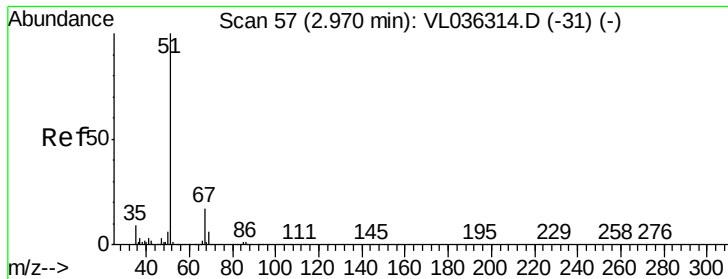
2000

0

3.00 3.02 3.04

Time-->

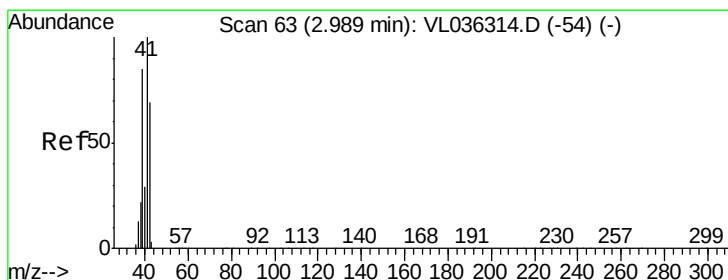
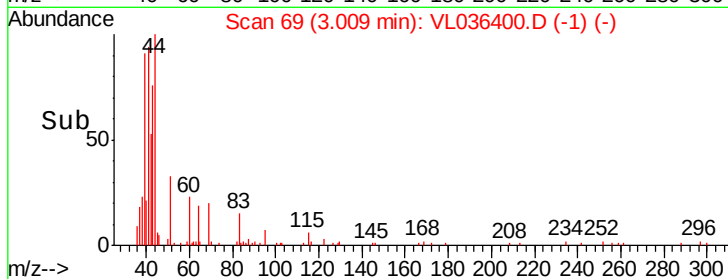
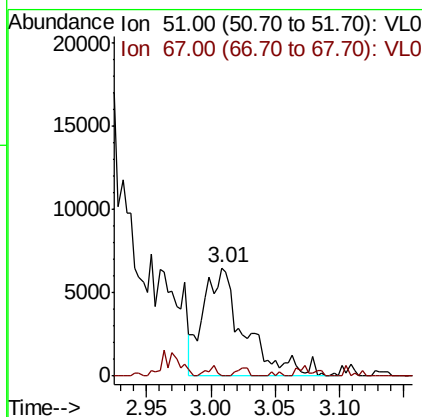
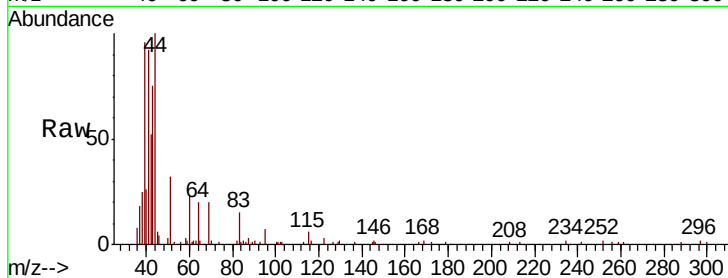




#3
 Chlorodifluoromethane
 Concen: 0.078 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.04 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

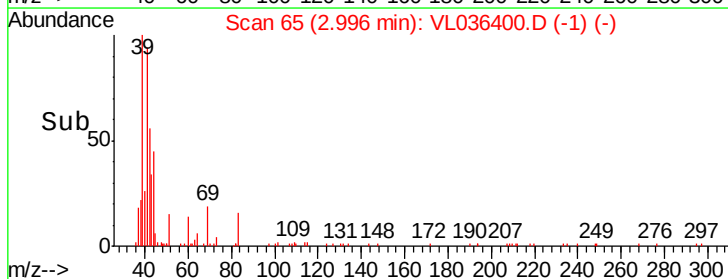
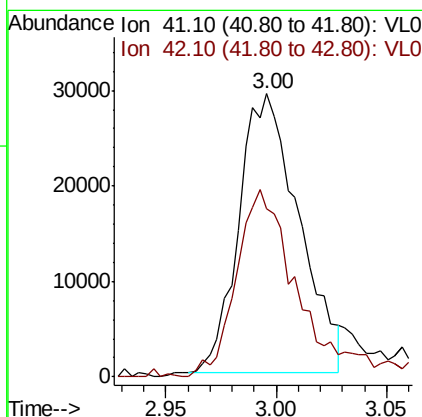
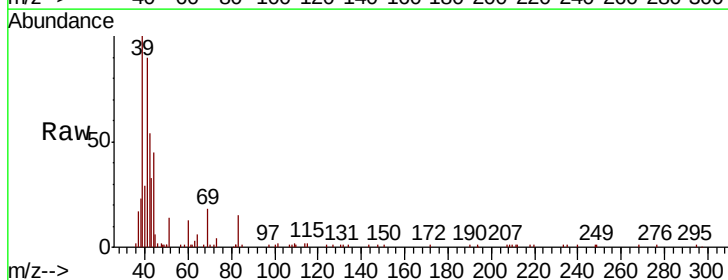
Instrument :
 MSVOA_L
 ClientSampleId :

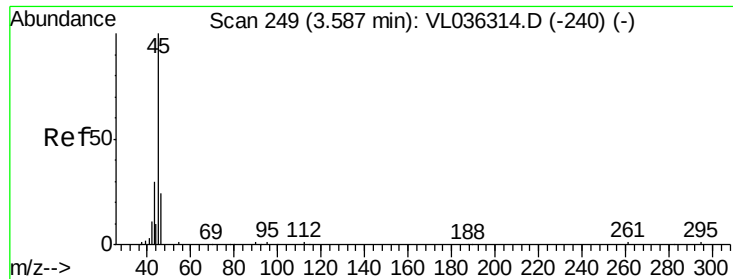
Tot Ion: 51 Resp: 14318
 Ion Ratio Lower Upper
 51 100
 67 4.0 14.7 22.1#



#9
 Propene
 Concen: 0.813 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. 0.01 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

Tgt Ion: 41 Resp: 55406
 Ion Ratio Lower Upper
 41 100
 42 70.8 56.2 84.2

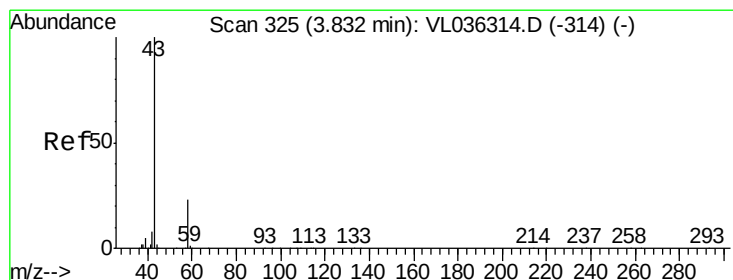
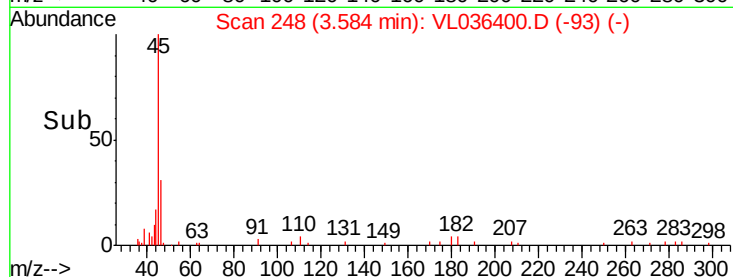
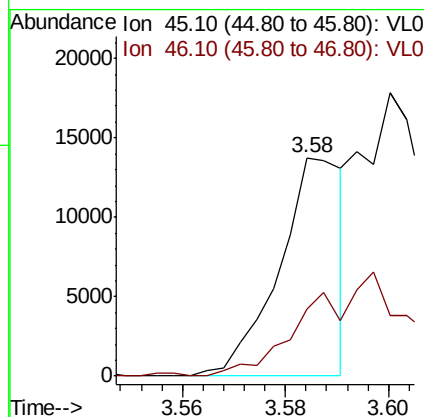
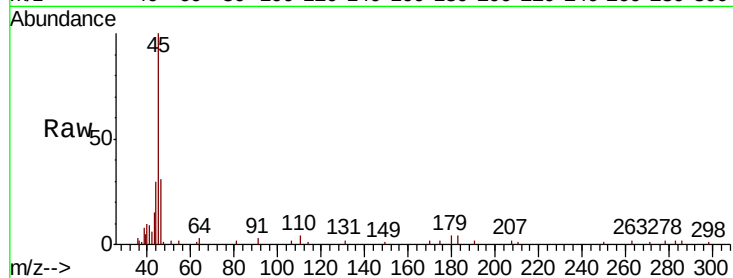




#13
Ethanol
Concen: 0.925 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.00 min
Lab File: VL036400.D
Acq: 26 Feb 2021 13:32

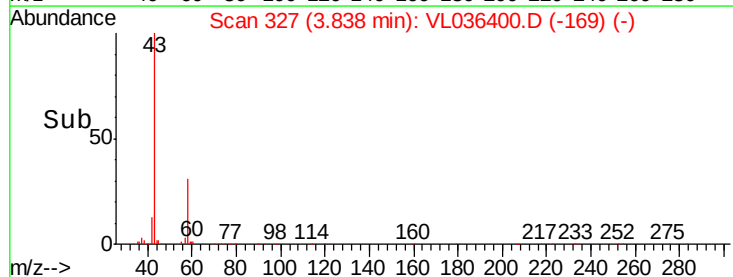
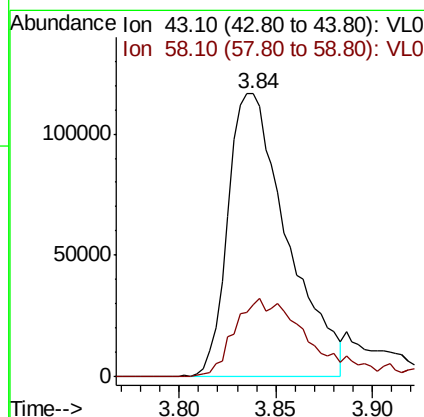
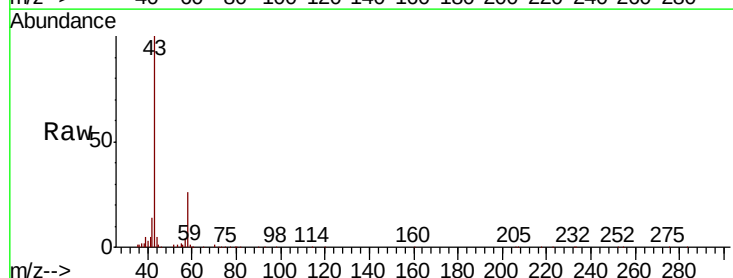
Instrument :
MSVOA_L
ClientSampleId :

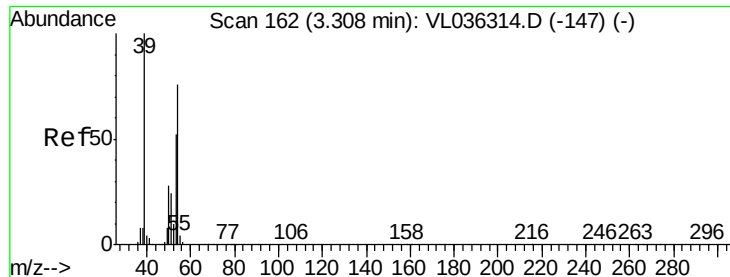
Tot Ion: 45 Resp: 11844
Ion Ratio Lower Upper
45 100
46 0.0 17.7 70.7#



#15
Acetone
Concen: 1.371 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL036400.D
Acq: 26 Feb 2021 13:32

Tgt Ion: 43 Resp: 246635
Ion Ratio Lower Upper
43 100
58 36.7 20.3 30.5#





#16

1,3-Butadiene

Concen: 0.435 ppbv

RT: 3.31 min Scan# 162

Delta R.T. 0.00 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

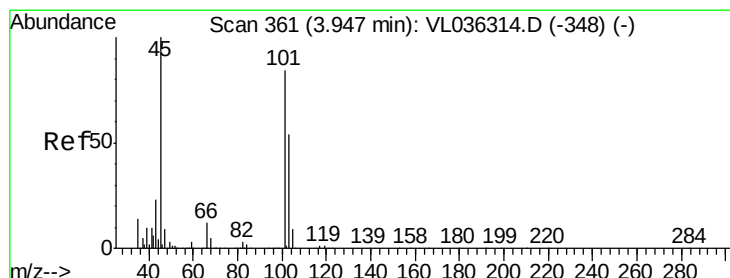
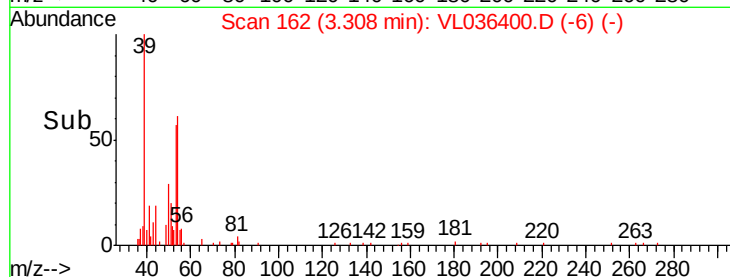
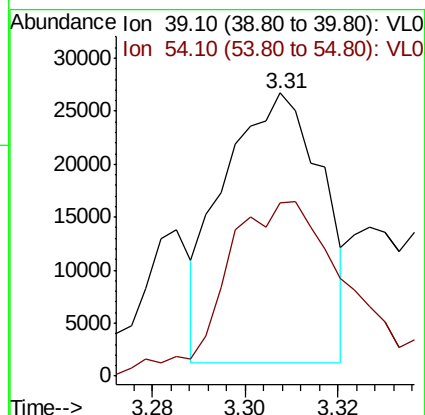
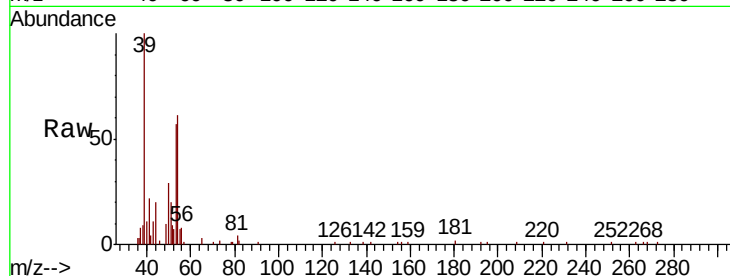
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 39 Resp: 37438

Ion Ratio Lower Upper

39 100

54 98.5 64.4 96.6#



#19

Isopropyl Alcohol

Concen: 0.064 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL036400.D

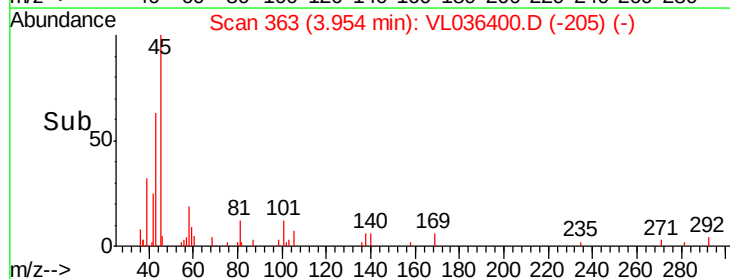
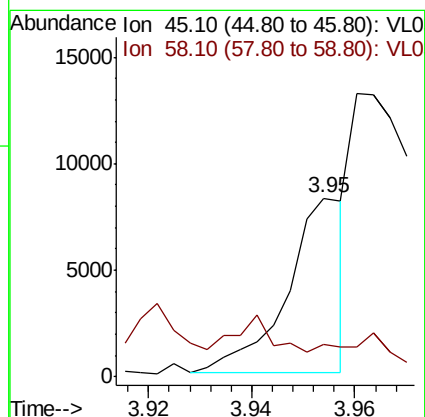
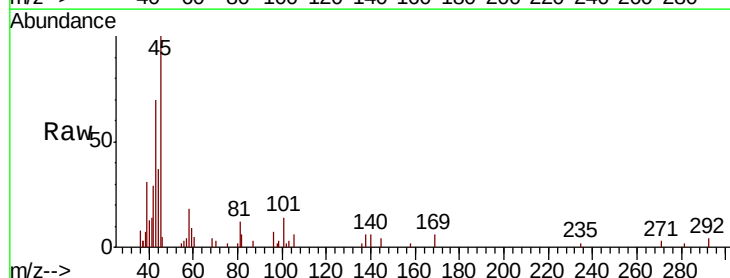
Acq: 26 Feb 2021 13:32

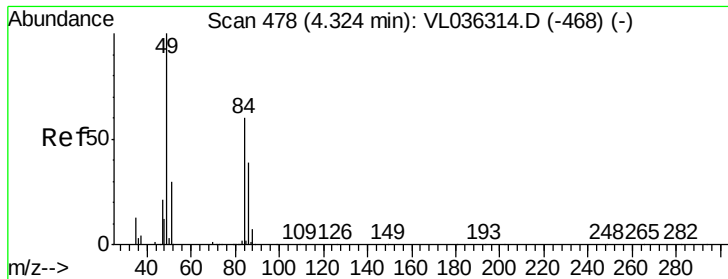
Tgt Ion: 45 Resp: 6348

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#





#20

Methylene Chloride

Concen: 6.110 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 354671

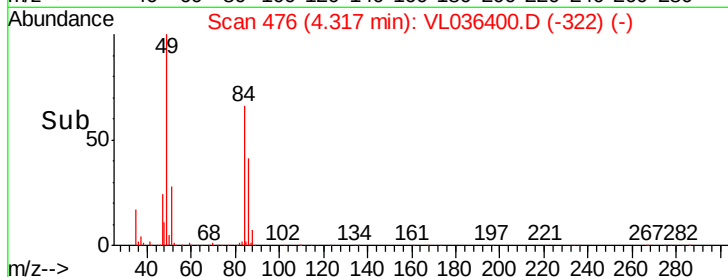
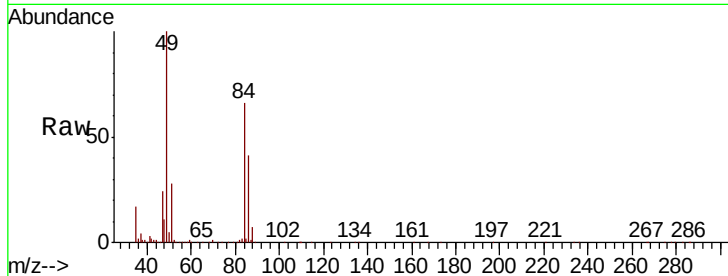
Ion Ratio Lower Upper

84 100

49 152.4 133.8 200.8

51 42.9 41.4 62.0

86 62.9 51.5 77.3

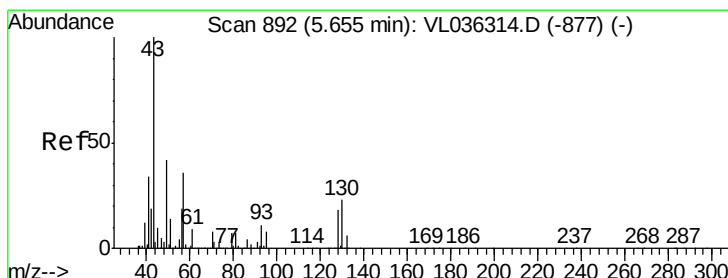
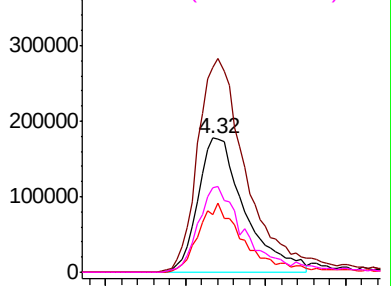


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.112 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Tgt Ion: 43 Resp: 39043

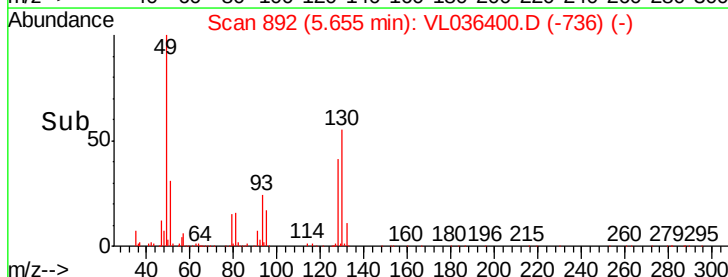
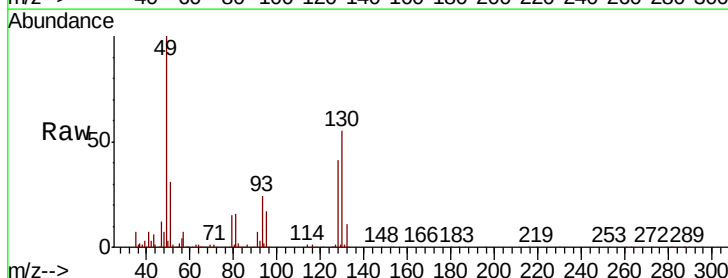
Ion Ratio Lower Upper

43 100

45 2.0 8.3 12.5#

61 2.0 7.3 10.9#

70 4.3 5.4 8.0#

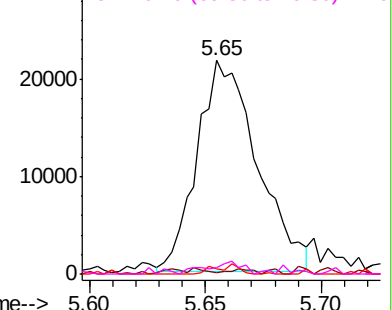


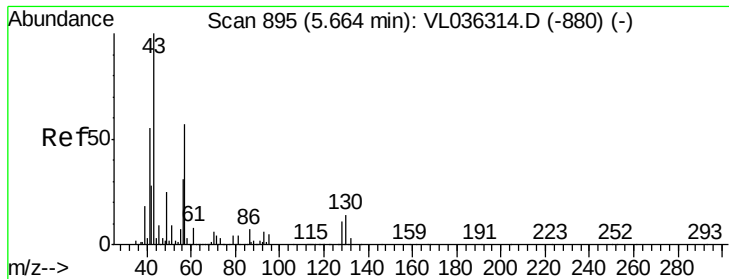
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.163 ppbv

RT: 5.66 min Scan# 895

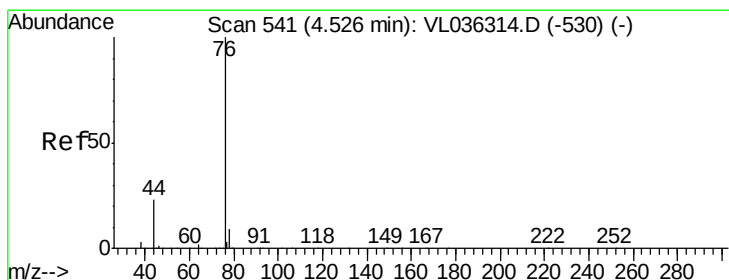
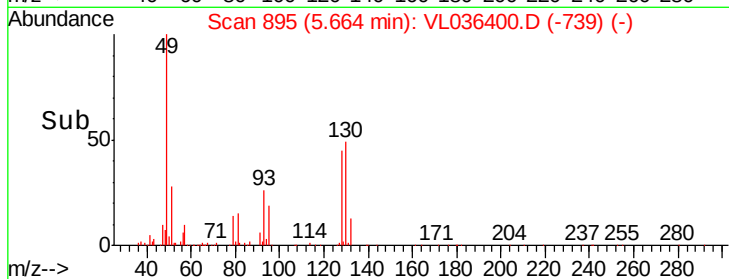
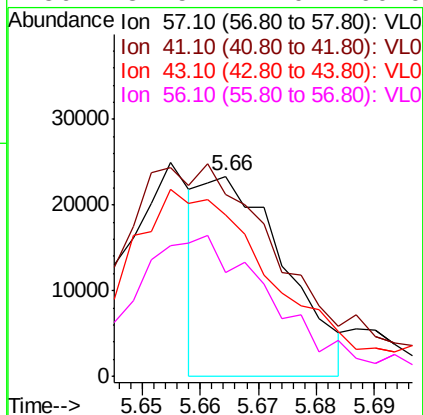
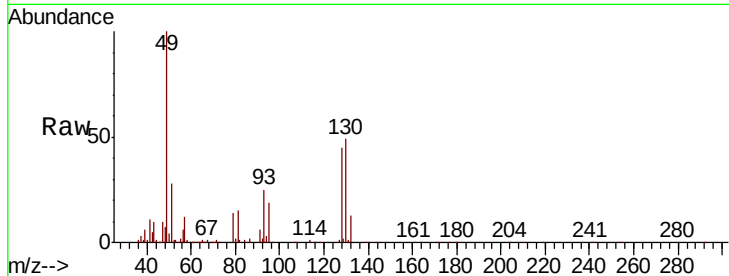
Delta R.T. 0.00 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	57	Resp:	23256
Ion	Ratio	Lower	Upper
57	100		
41	246.6	81.7	122.5#
43	0.0	199.1	298.7#
56	131.5	44.0	66.0#



#27

Carbon Disulfide

Concen: 0.047 ppbv

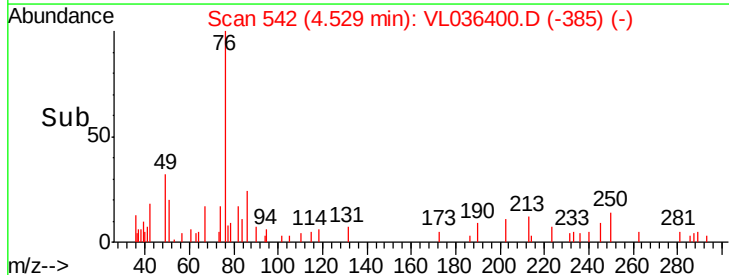
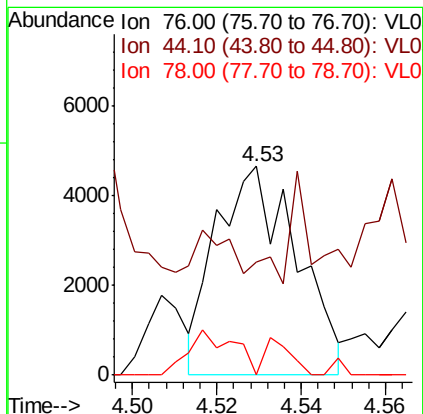
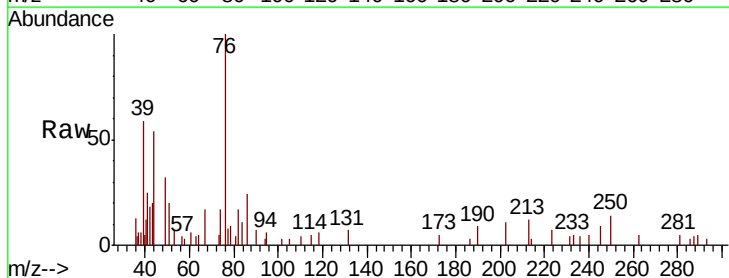
RT: 4.53 min Scan# 542

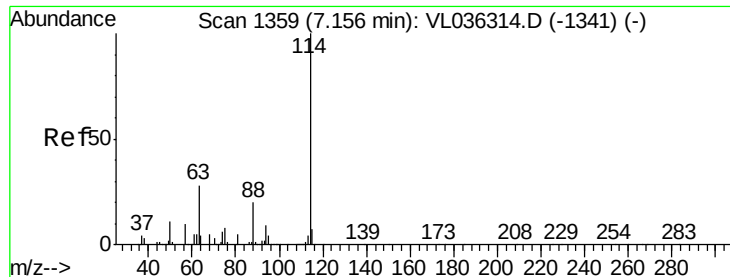
Delta R.T. 0.00 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Tgt Ion:	76	Resp:	6191
Ion	Ratio	Lower	Upper
76	100		
44	26.8	18.4	27.6
78	18.7	8.0	12.0#

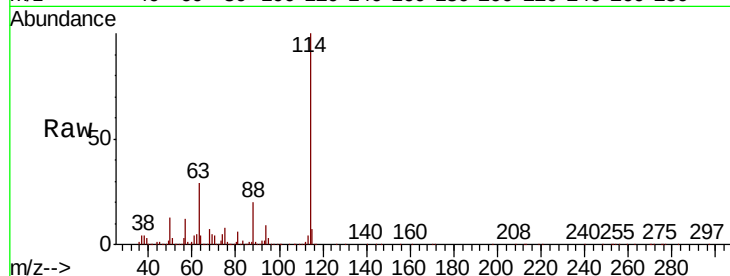




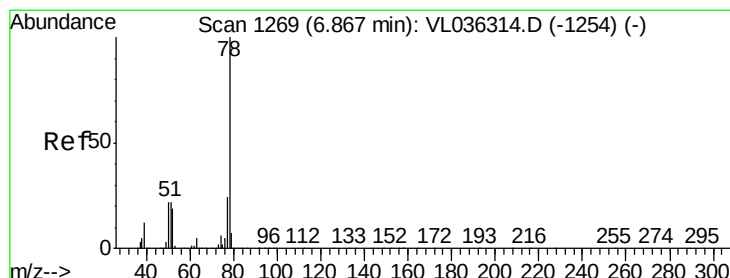
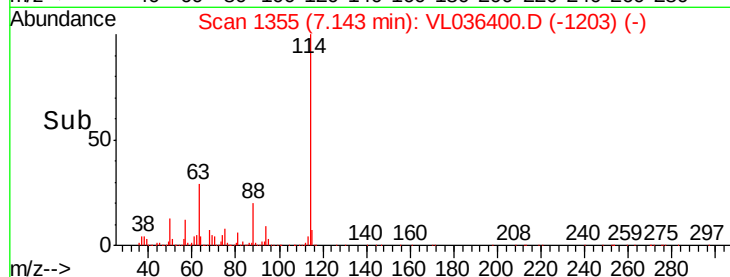
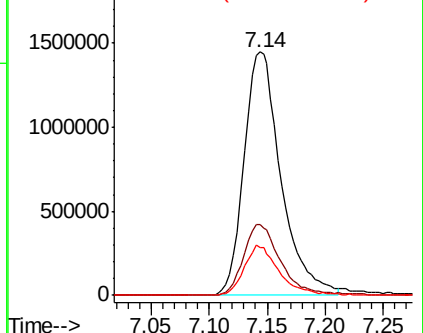
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3223706
 Ion Ratio Lower Upper
 114 100
 63 29.7 24.1 36.1
 88 19.7 16.0 24.0

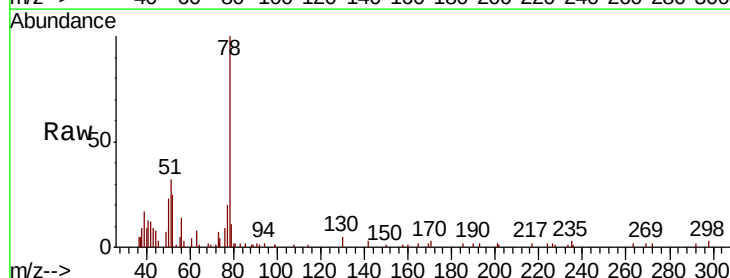


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

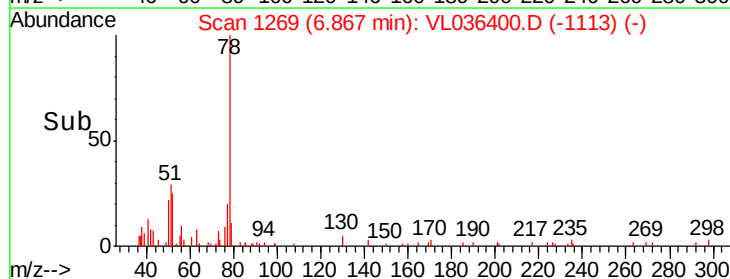
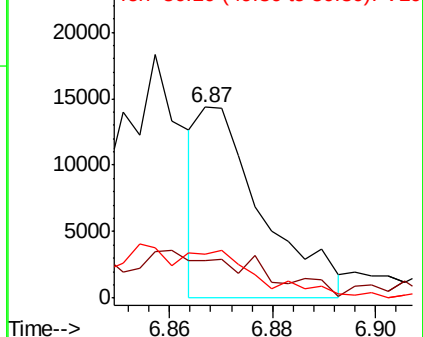


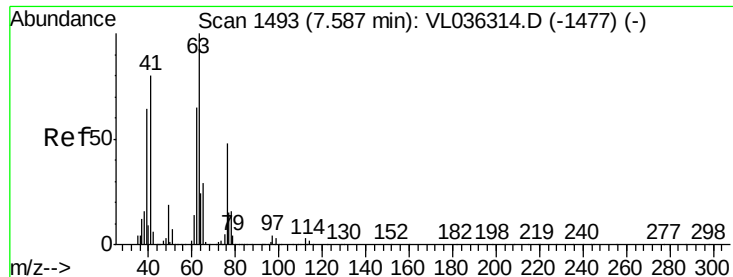
#36
 Benzene
 Concen: 0.045 ppbv
 RT: 6.87 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

Tgt Ion: 78 Resp: 12343
 Ion Ratio Lower Upper
 78 100
 77 21.6 18.9 28.3
 50 23.8 17.3 25.9



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 8.361 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.44 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Instrument :

MSVOA_L

ClientSampled :

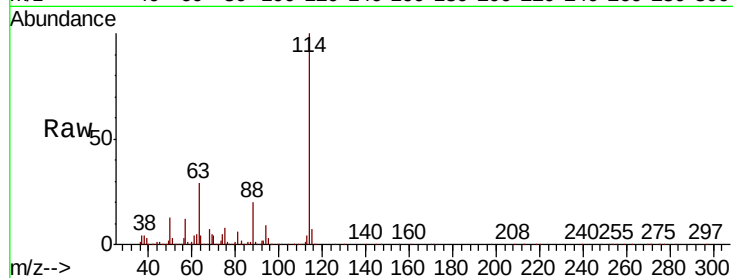
Tot Ion: 63 Resp: 930110

Ion Ratio Lower Upper

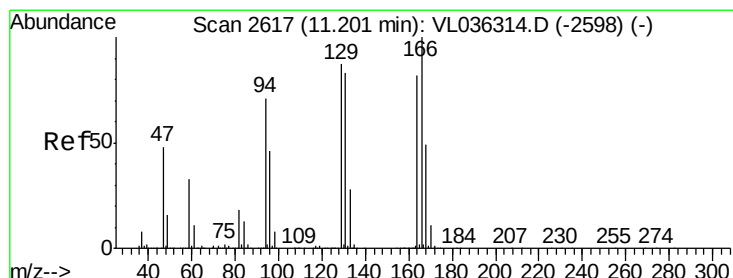
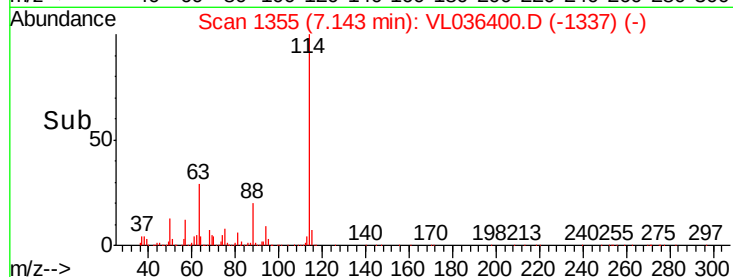
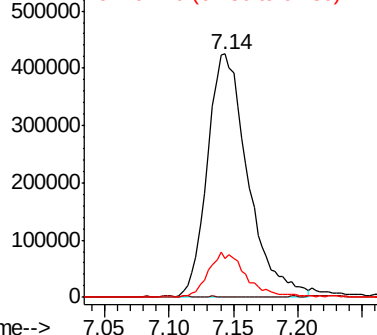
63 100

41 0.0 63.8 95.6#

62 16.1 52.3 78.5#



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



#52

Tetrachloroethene

Concen: 0.033 ppbv

RT: 11.19 min Scan# 2612

Delta R.T. -0.02 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Tgt Ion:164 Resp: 3278

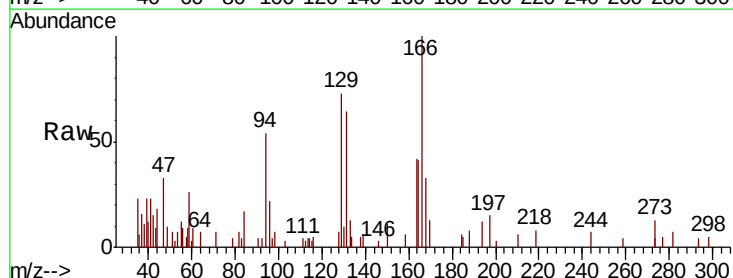
Ion Ratio Lower Upper

164 100

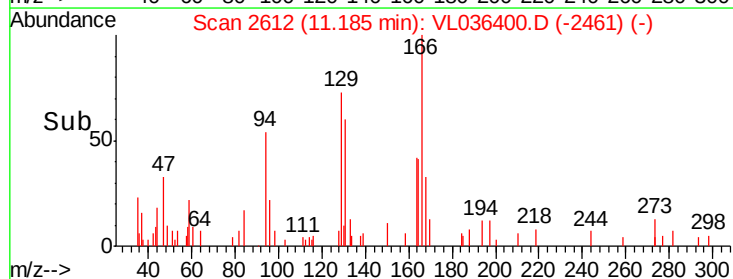
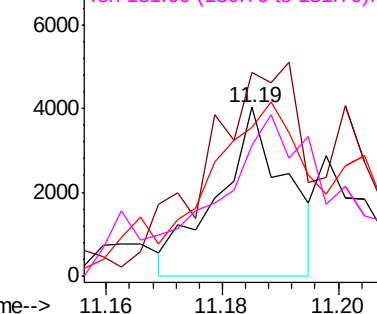
166 91.5 97.8 146.8#

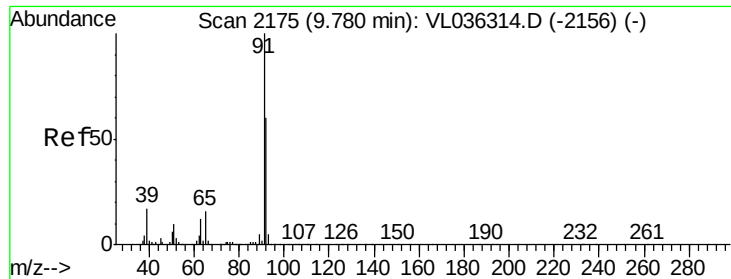
129 80.8 84.9 127.3#

131 62.1 81.4 122.2#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.445 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

Instrument :

MSVOA_L

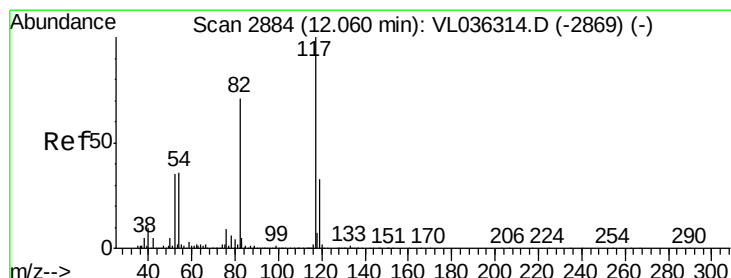
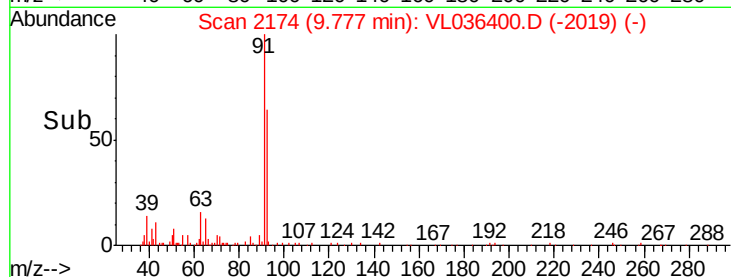
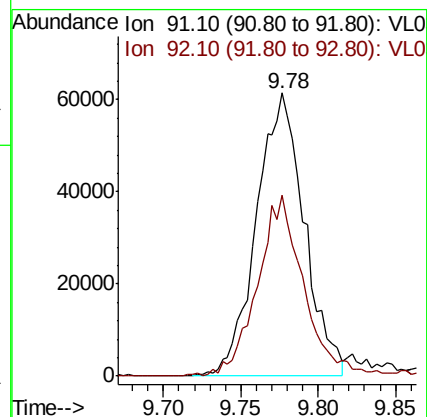
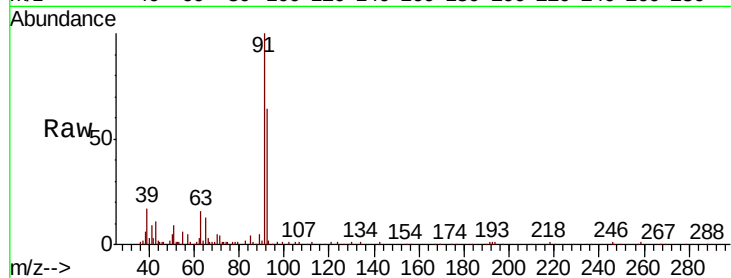
ClientSampleId :

Tot Ion: 91 Resp: 131993

Ion Ratio Lower Upper

91 100

92 62.5 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2881

Delta R.T. -0.01 min

Lab File: VL036400.D

Acq: 26 Feb 2021 13:32

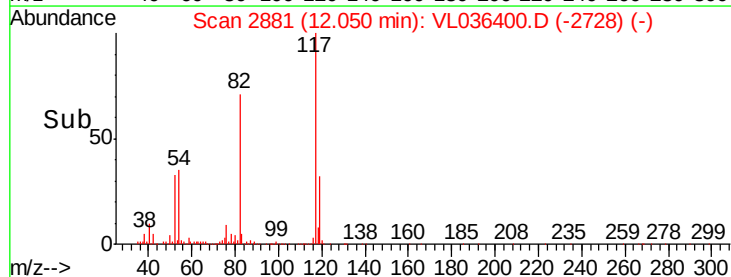
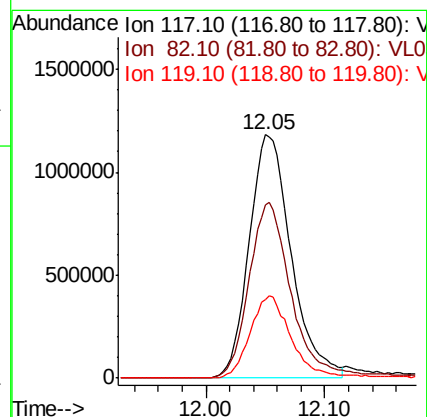
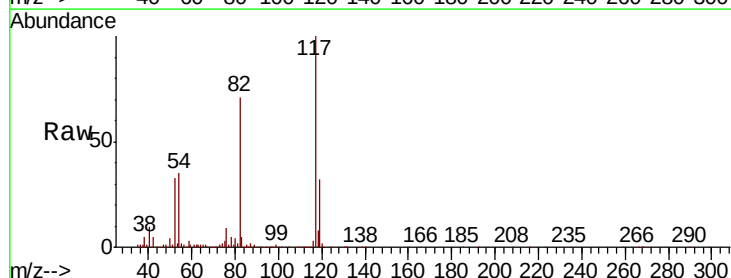
Tgt Ion: 117 Resp: 2896426

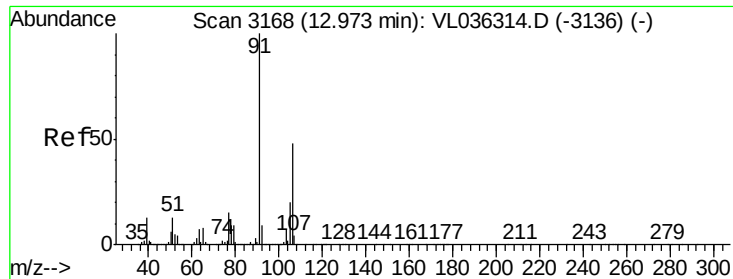
Ion Ratio Lower Upper

117 100

82 74.6 59.1 88.7

119 34.2 46.3 69.5#

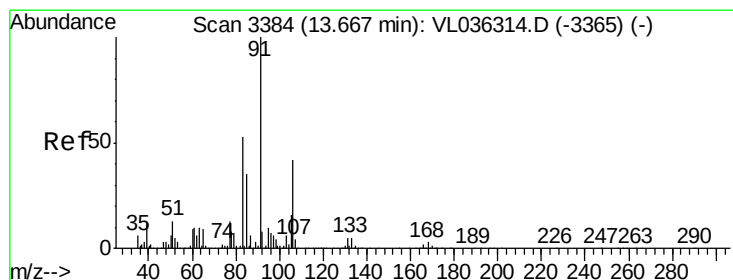
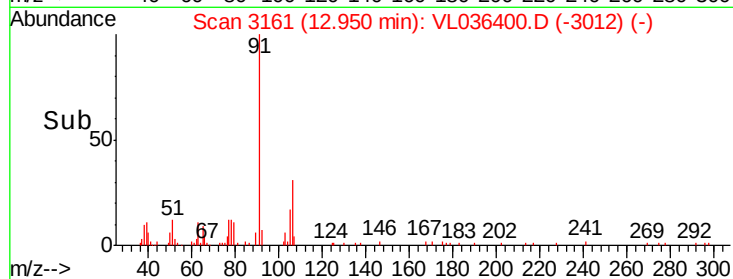
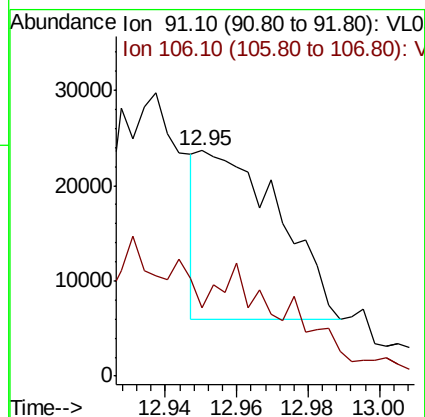
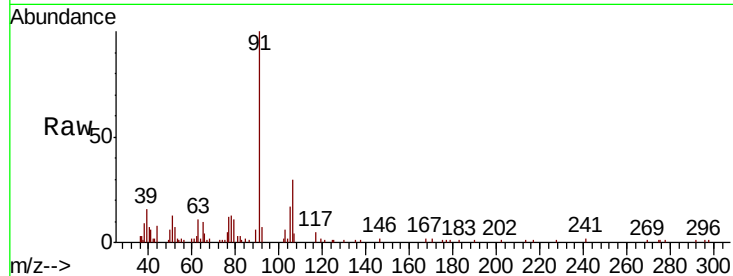




#59
m/p-Xylene
Concen: 0.079 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL036400.D
Acq: 26 Feb 2021 13:32

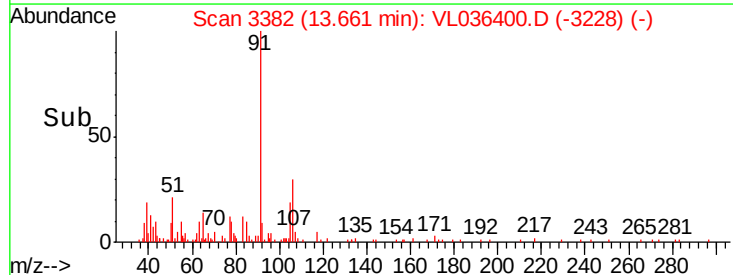
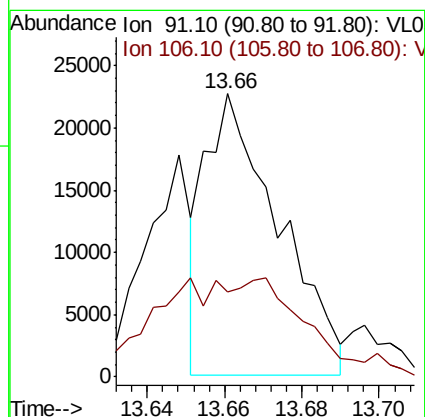
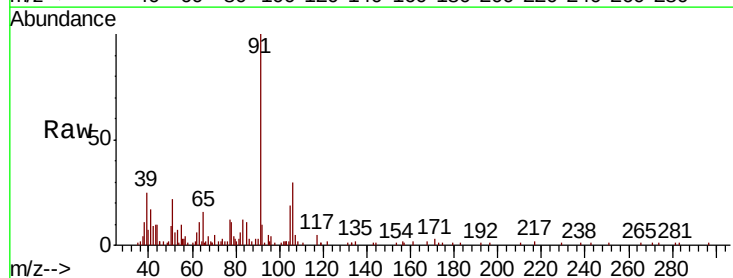
Instrument :
MSVOA_L
ClientSampleId :

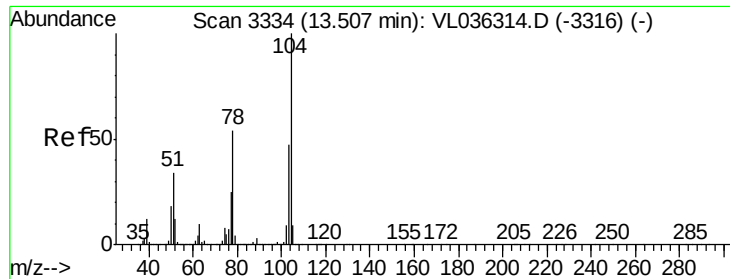
Tot Ion: 91 Resp: 27615
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.2#



#60
o-Xylene
Concen: 0.090 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL036400.D
Acq: 26 Feb 2021 13:32

Tgt Ion: 91 Resp: 29875
Ion Ratio Lower Upper
91 100
106 0.0 22.0 66.0#

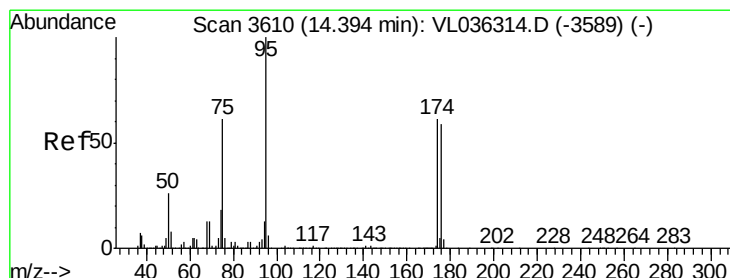
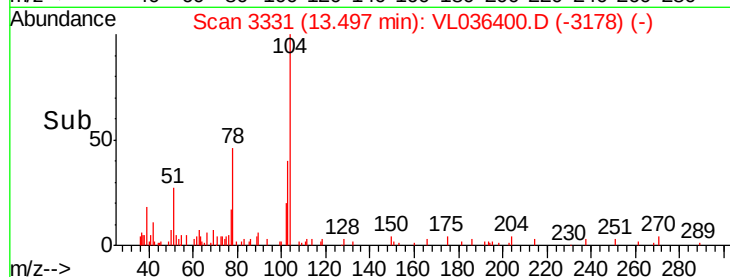
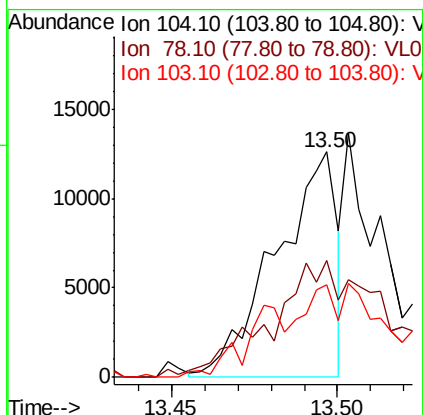
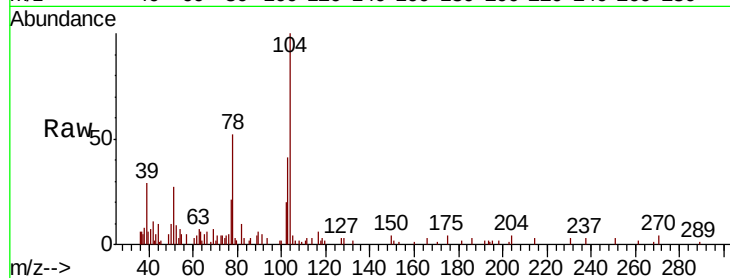




#61
 Stvrene
 Concen: 0.078 ppbv
 RT: 13.50 min Scan# 3331
 Delta R.T. -0.01 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:104 Resp: 16033
 Ion Ratio Lower Upper
 104 100
 78 108.6 46.2 69.2#
 103 0.0 38.3 57.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.889 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.01 min
 Lab File: VL036400.D
 Acq: 26 Feb 2021 13:32

Tgt Ion: 95 Resp: 2356549
 Ion Ratio Lower Upper
 95 100
 174 63.8 49.8 74.6
 175 4.8 3.7 5.5

