

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036364.D
 Acq On : 25 Feb 2021 00:01
 Operator : SY/AP
 Sample : M1463-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Quant Time: Feb 25 05:21:03 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	5.68	49	1701220	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3674537	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3278523	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2772530	10.28	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

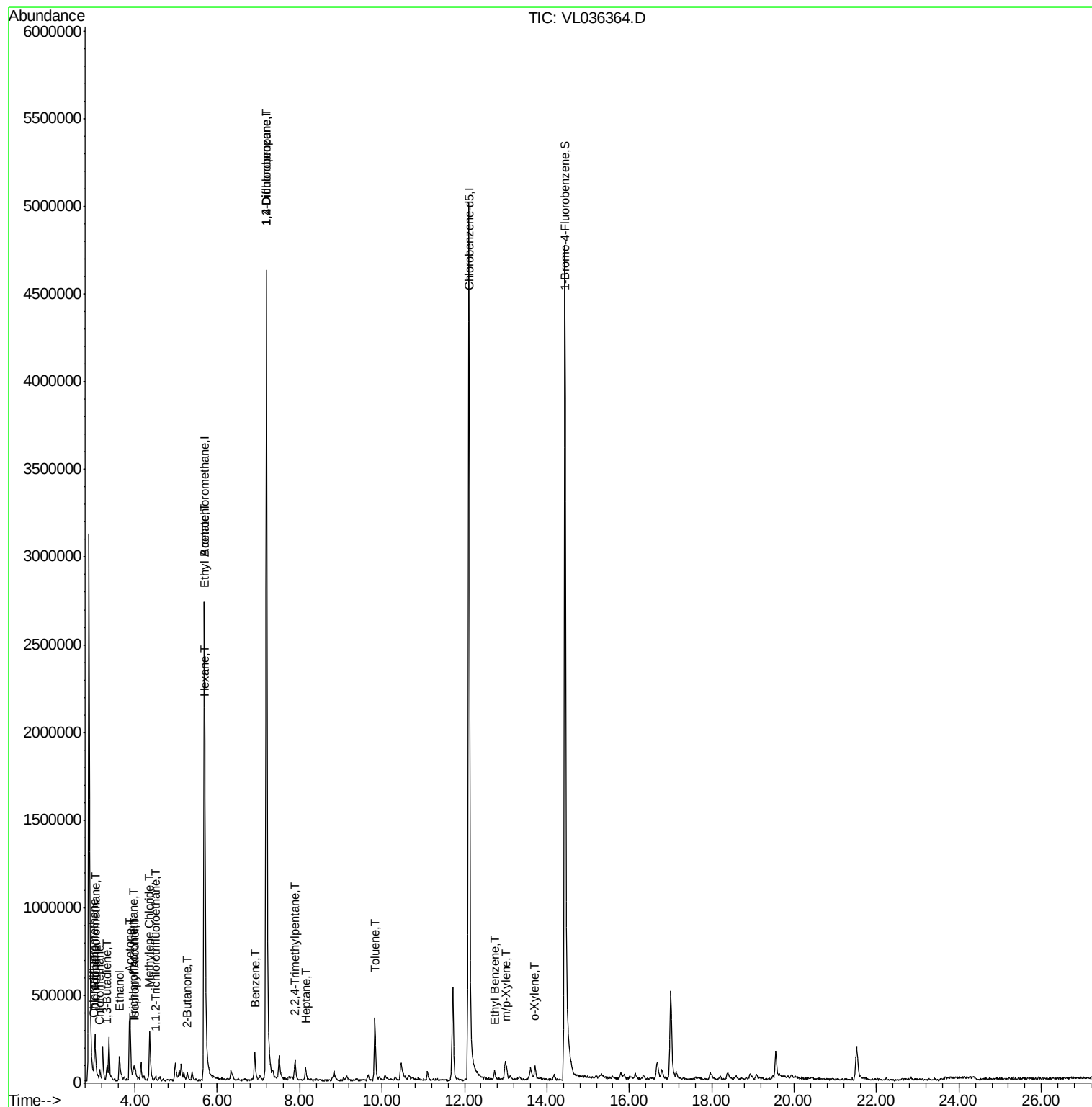
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	17464	0.069	ppbv	92
3) Chlorodifluoromethane	3.00	51	76022	0.360	ppbv #	91
4) Chloromethane	3.15	50	36528	0.358	ppbv	99
9) Propene	3.02	41	95426	1.211	ppbv	91
10) Heptane	8.14	43	9801	0.042	ppbv #	1
11) Trichlorofluoromethane	3.97	101	52823	0.212	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	5770	0.037	ppbv #	13
13) Ethanol	3.62	45	184570	12.469	ppbv	96
15) Acetone	3.87	43	476345	2.291	ppbv	95
16) 1,3-Butadiene	3.34	39	6072	0.061	ppbv #	1
19) Isopropyl Alcohol	4.00	45	82299	0.714	ppbv #	87
20) Methylene Chloride	4.36	84	104704	1.561	ppbv	93
25) Ethyl Acetate	5.70	43	82532	0.206	ppbv #	83
26) Hexane	5.71	57	63612	0.386	ppbv #	33
34) 2-Butanone	5.27	43	51102	0.209	ppbv #	81
36) Benzene	6.91	78	139344	0.446	ppbv	92
39) 1,2-Dichloropropane	7.19	63	1062328	8.378	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	75638	0.133	ppbv #	70
53) Toluene	9.83	91	263419	0.779	ppbv	97
58) Ethyl Benzene	12.73	91	18926	0.042	ppbv	99
59) m/p-Xylene	13.02	91	23459	0.059	ppbv #	33
60) o-Xylene	13.71	91	44777	0.119	ppbv	94

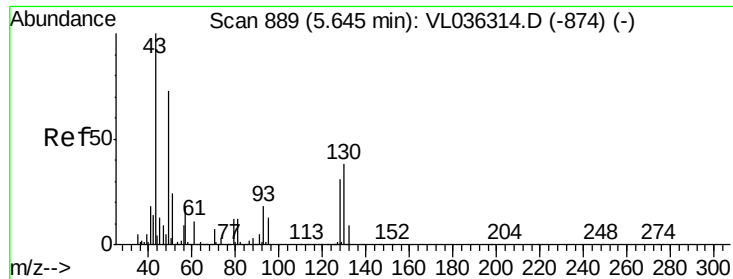
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022421\
Data File : VL036364.D
Acq On : 25 Feb 2021 00:01
Operator : SY/AP
Sample : M1463-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
NS-2

Quant Time: Feb 25 05:21:03 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

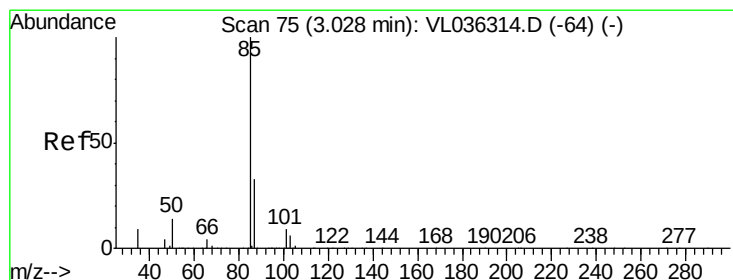
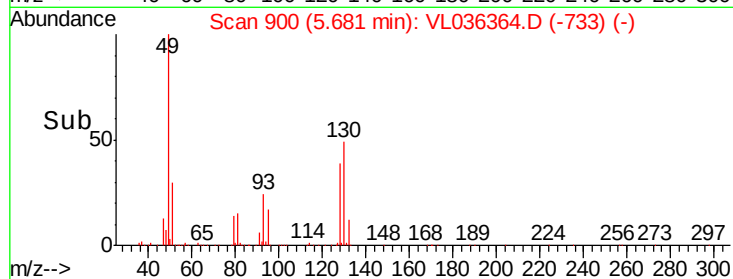
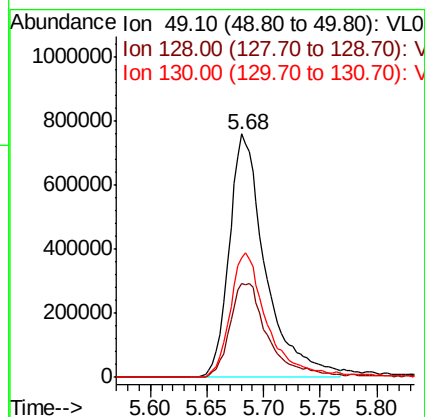
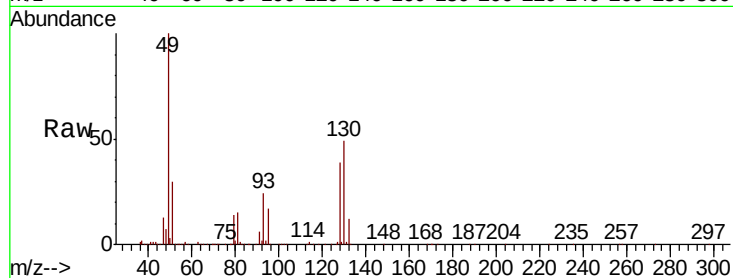




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. 0.04 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

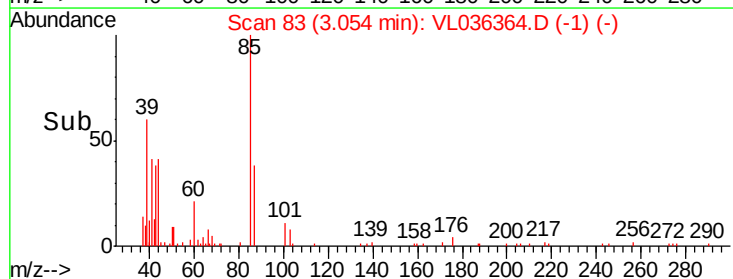
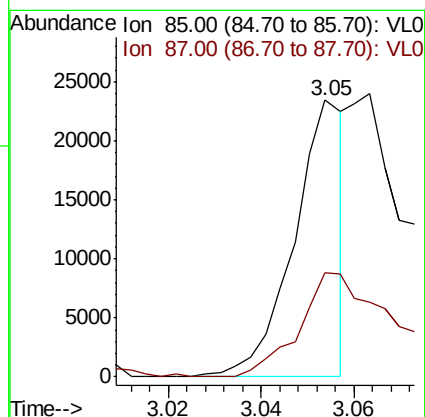
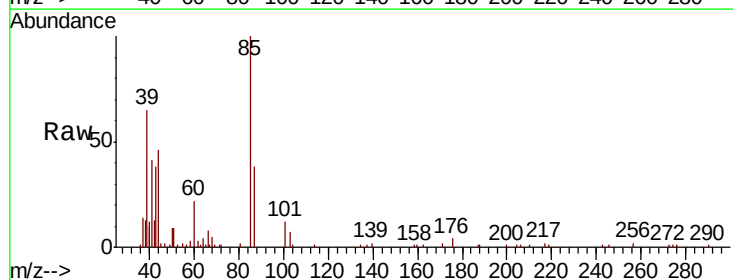
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

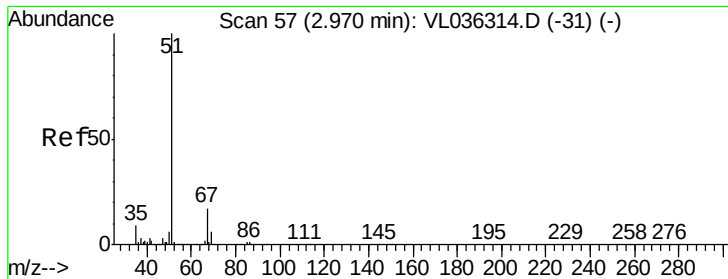
Tot Ion: 49 Resp: 1701220
 Ion Ratio Lower Upper
 49 100
 128 42.5 20.8 62.5
 130 53.1 26.7 80.1



#2
 Dichlorodifluoromethane
 Concen: 0.069 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.03 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

Tgt Ion: 85 Resp: 17464
 Ion Ratio Lower Upper
 85 100
 87 37.7 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.360 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

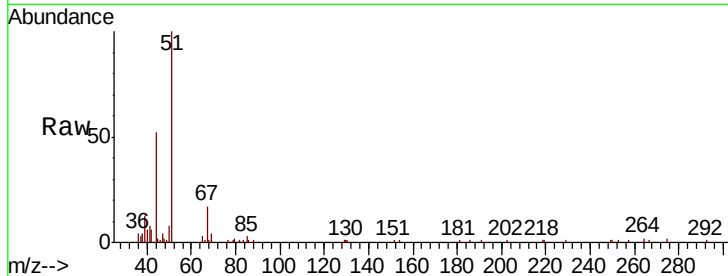
NS-2

Tot Ion: 51 Resp: 76022

Ion Ratio Lower Upper

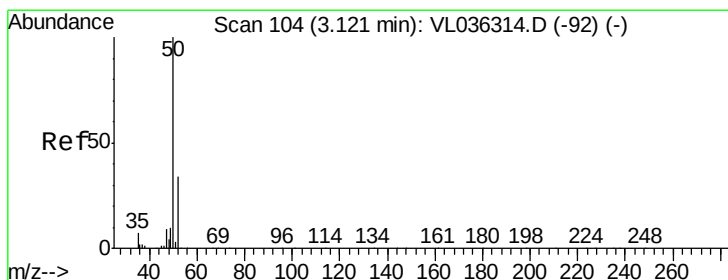
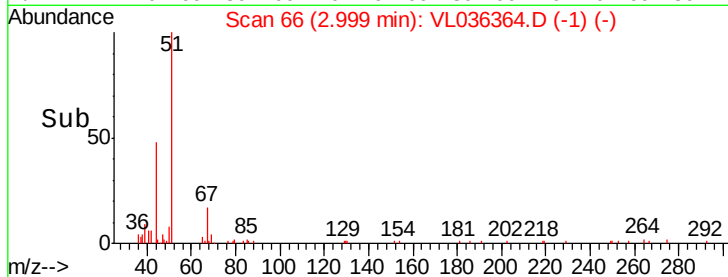
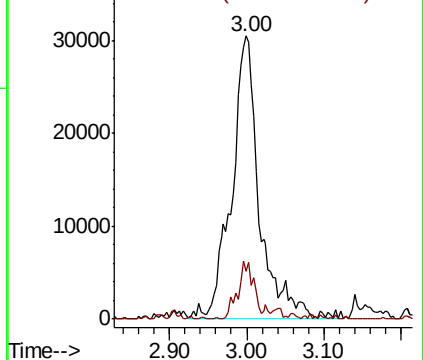
51 100

67 14.2 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.358 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036364.D

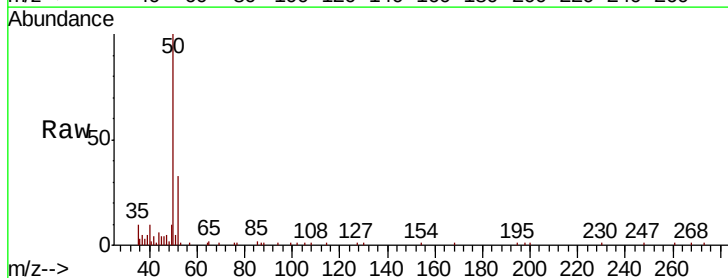
Acq: 25 Feb 2021 00:01

Tgt Ion: 50 Resp: 36528

Ion Ratio Lower Upper

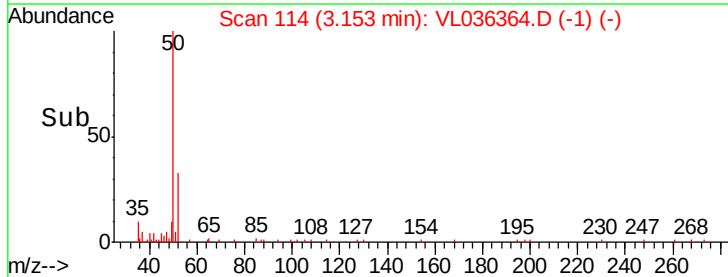
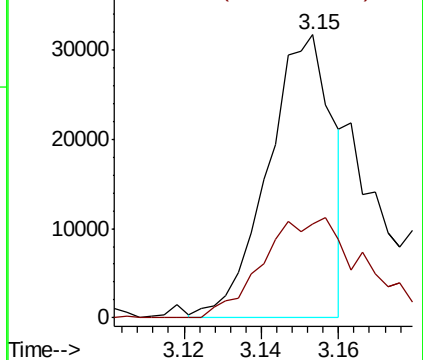
50 100

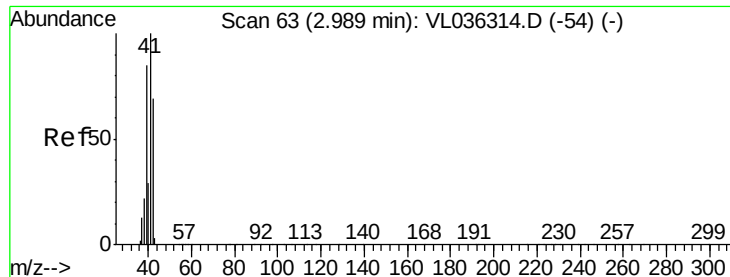
52 34.4 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.211 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

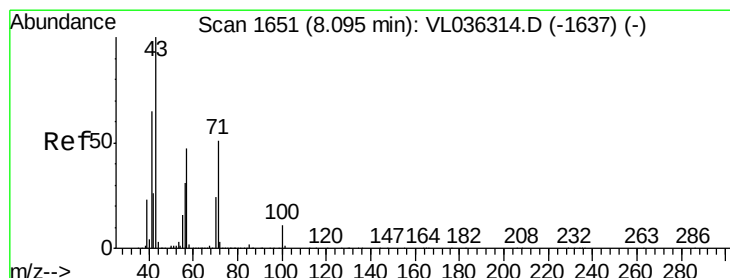
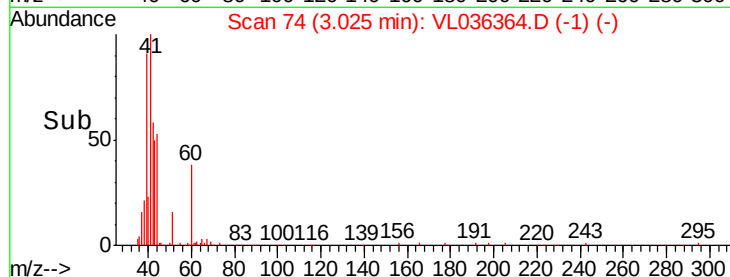
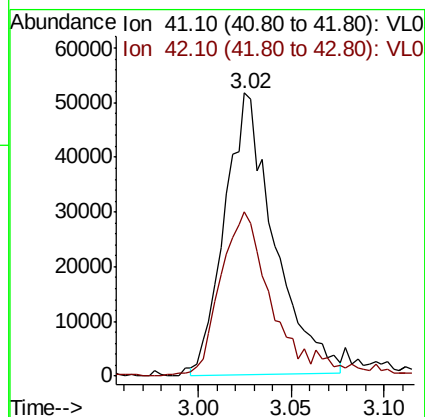
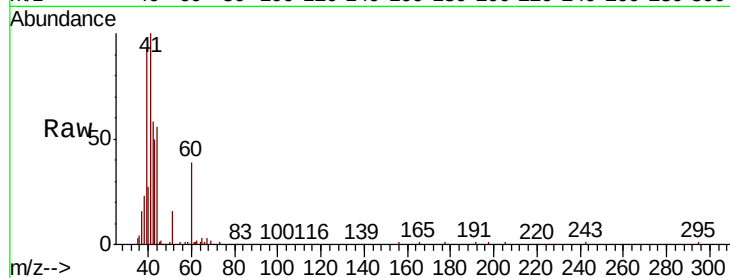
NS-2

Tot Ion: 41 Resp: 95426

Ion Ratio Lower Upper

41 100

42 63.0 56.2 84.2



#10

Heptane

Concen: 0.042 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.05 min

Lab File: VL036364.D

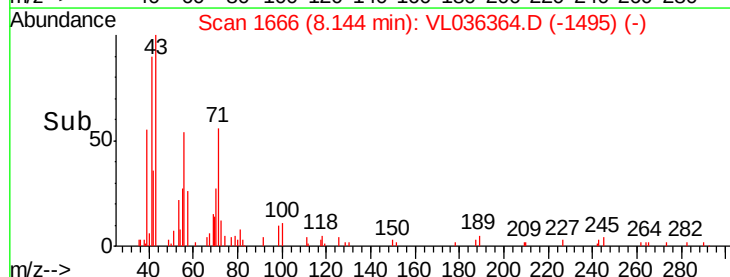
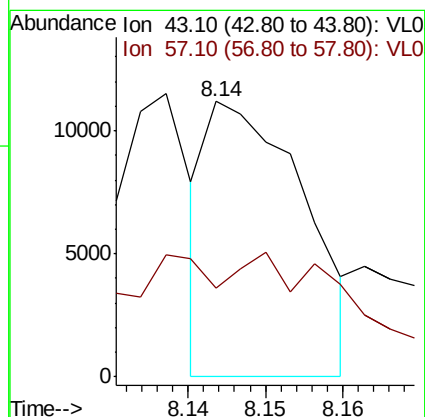
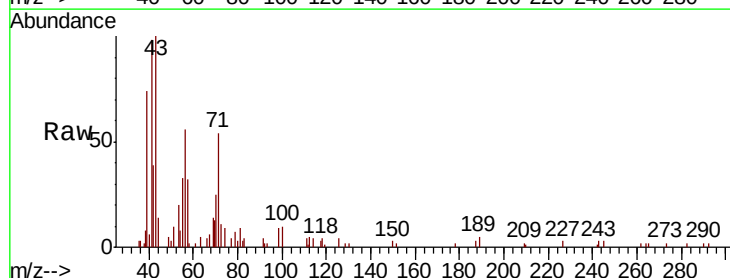
Acq: 25 Feb 2021 00:01

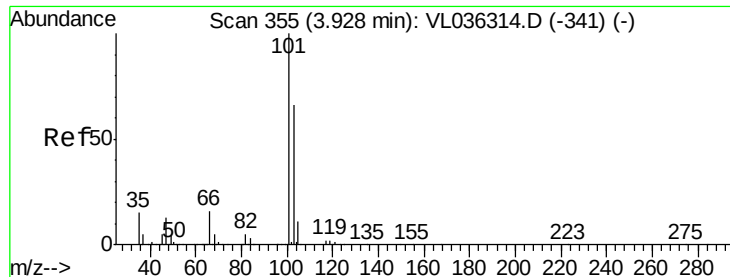
Tgt Ion: 43 Resp: 9801

Ion Ratio Lower Upper

43 100

57 142.5 39.4 59.2#

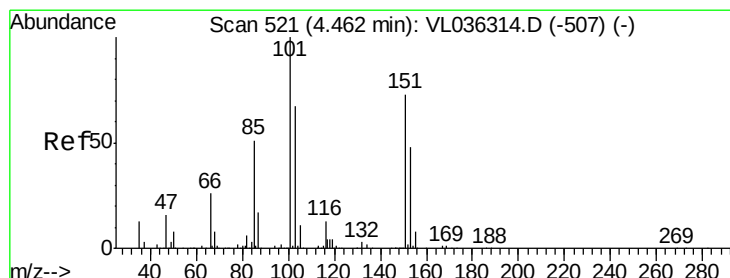
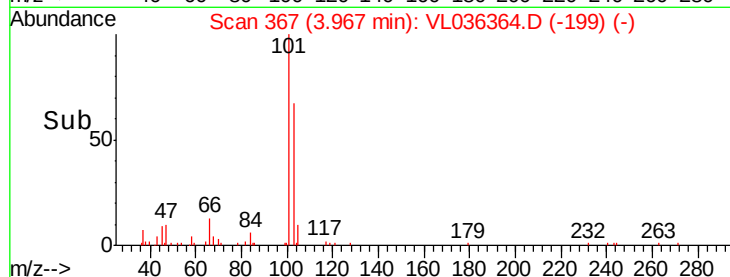
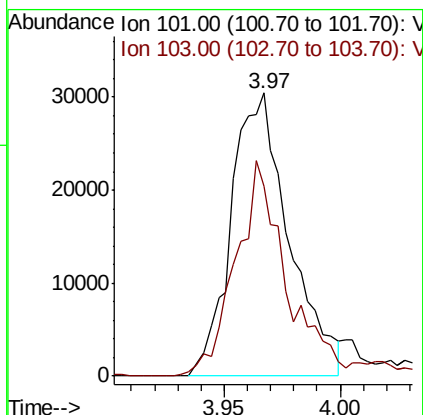
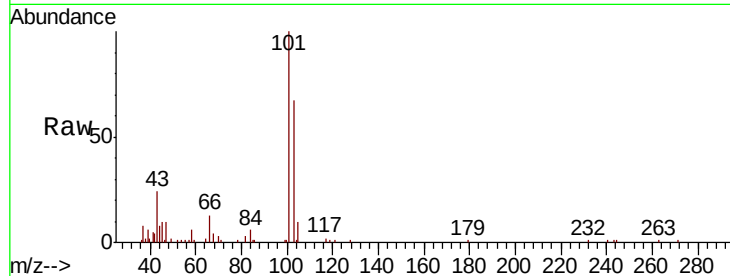




#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.04 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

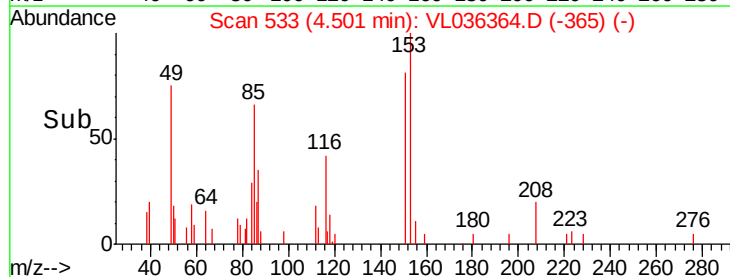
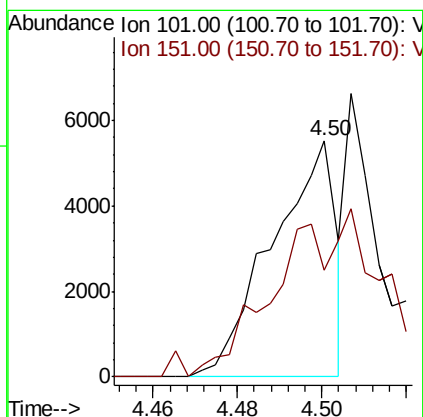
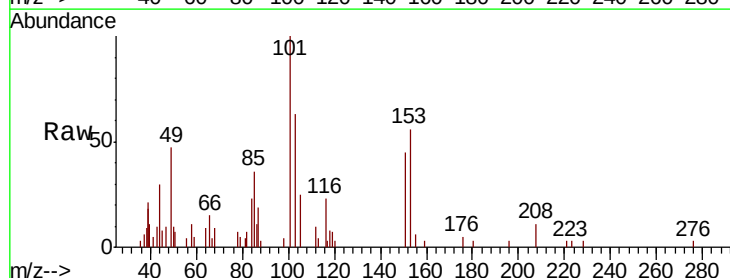
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

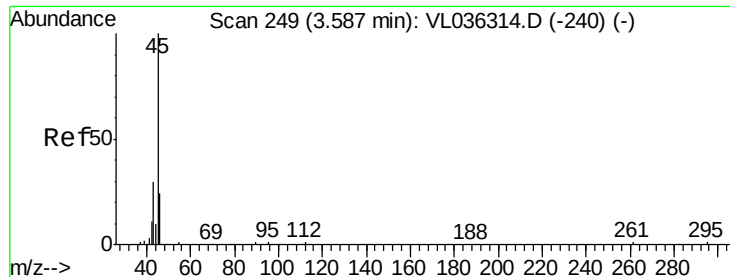
Tot Ion:101 Resp: 52823
 Ion Ratio Lower Upper
 101 100
 103 65.7 52.9 79.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 4.50 min Scan# 533
 Delta R.T. 0.04 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

Tgt Ion:101 Resp: 5770
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#





#13

Ethanol

Concen: 12.469 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

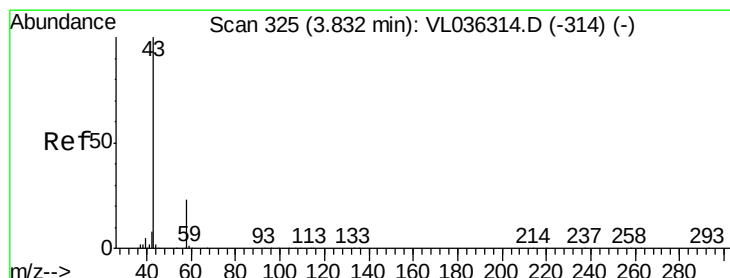
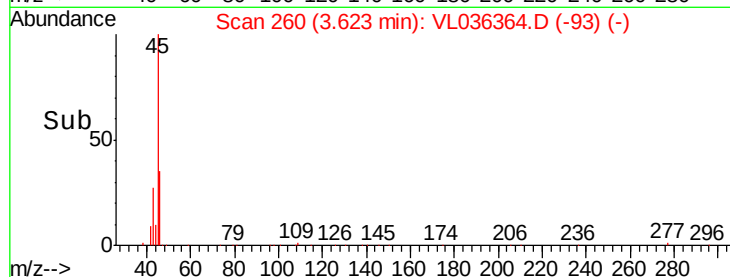
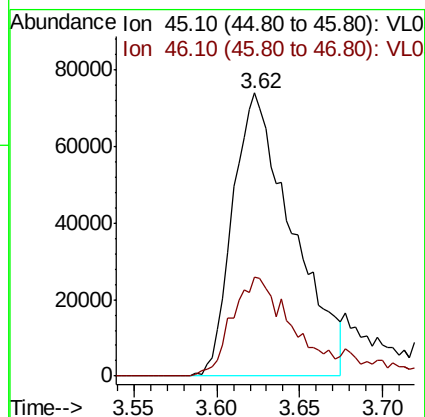
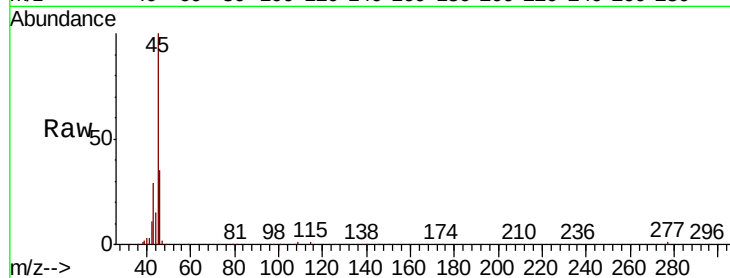
NS-2

Tot Ion: 45 Resp: 184570

Ion Ratio Lower Upper

45 100

46 41.5 17.7 70.7



#15

Acetone

Concen: 2.291 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.04 min

Lab File: VL036364.D

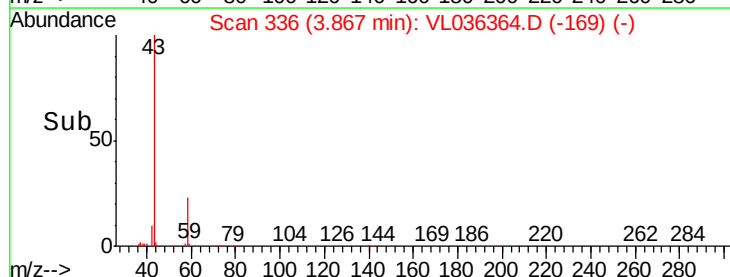
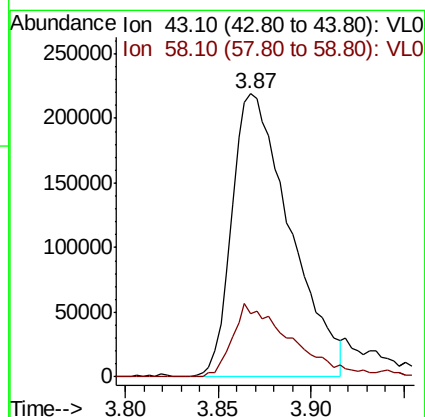
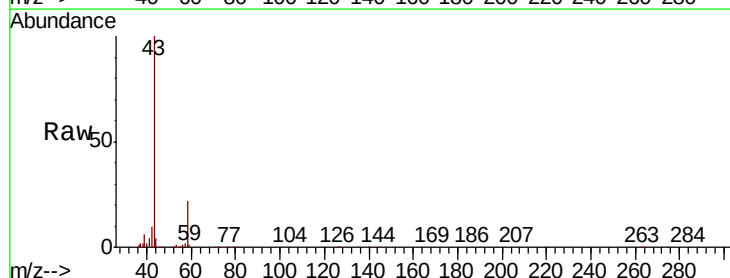
Acq: 25 Feb 2021 00:01

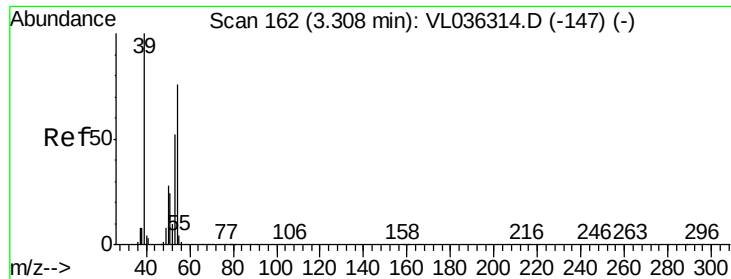
Tgt Ion: 43 Resp: 476345

Ion Ratio Lower Upper

43 100

58 28.0 20.3 30.5

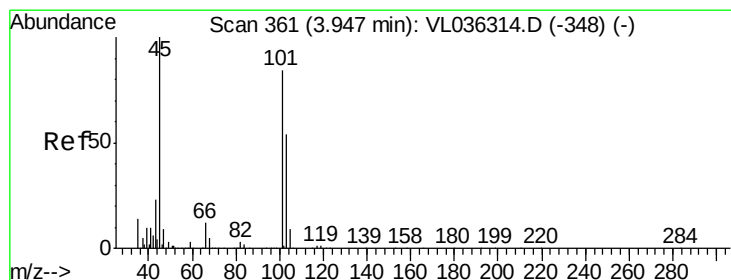
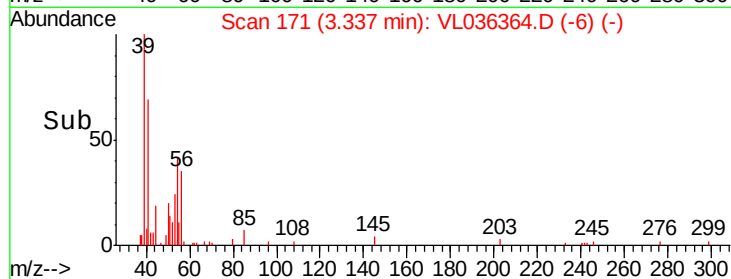
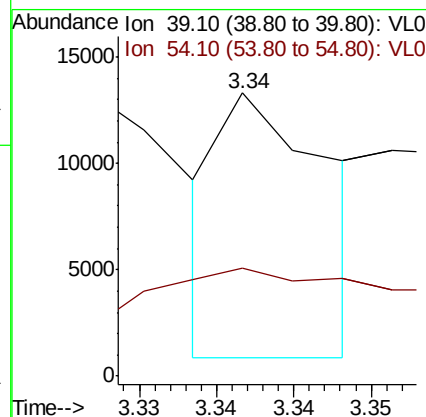
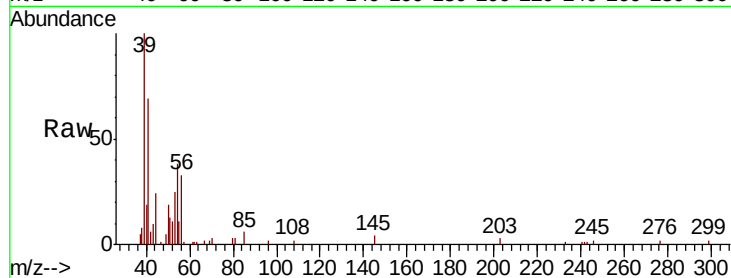




#16
 1,3-Butadiene
 Concen: 0.061 ppbv
 RT: 3.34 min Scan# 171
 Delta R.T. 0.03 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

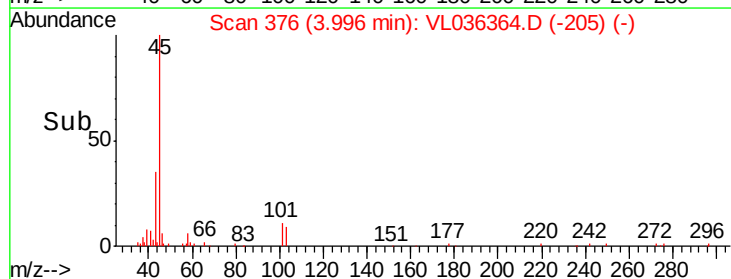
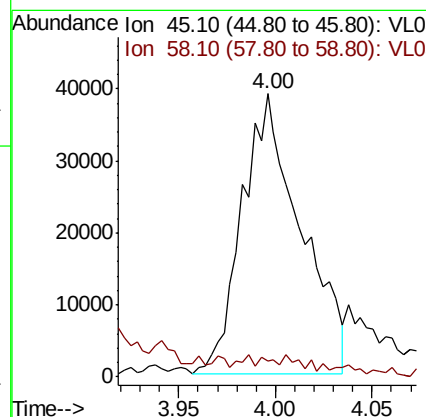
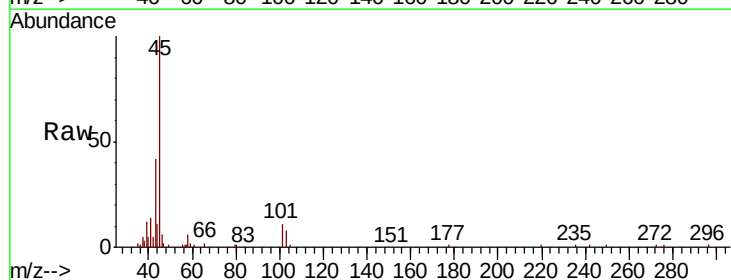
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

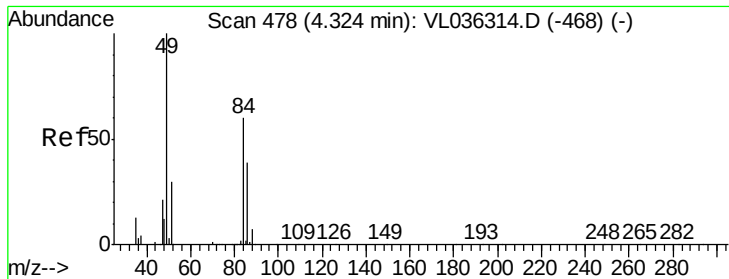
Tot Ion: 39 Resp: 6072
 Ion Ratio Lower Upper
 39 100
 54 197.6 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 0.714 ppbv
 RT: 4.00 min Scan# 376
 Delta R.T. 0.05 min
 Lab File: VL036364.D
 Acq: 25 Feb 2021 00:01

Tgt Ion: 45 Resp: 82299
 Ion Ratio Lower Upper
 45 100
 58 7.0 1.9 2.9#

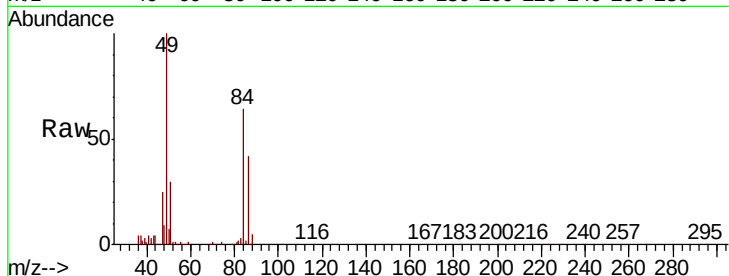




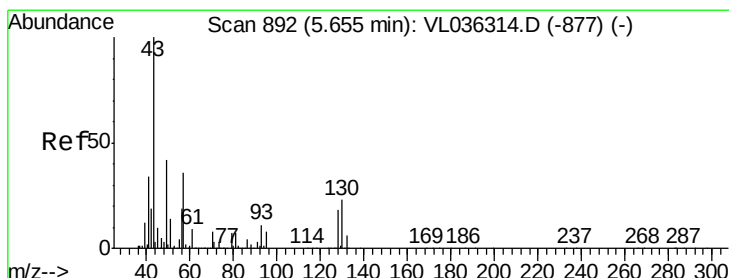
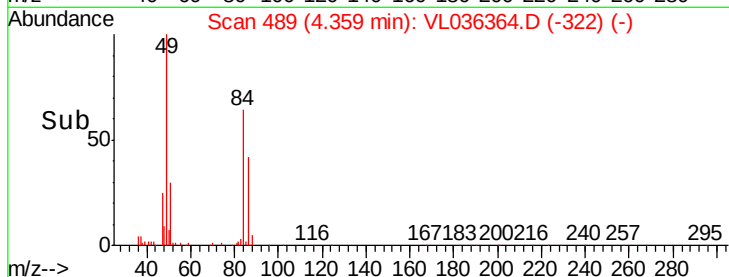
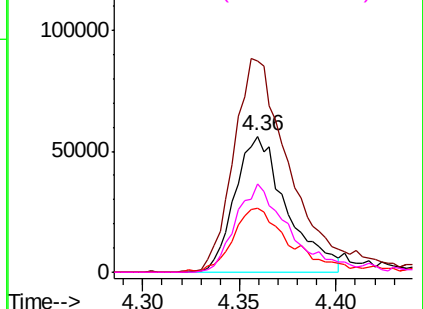
#20
Methylene Chloride
Concen: 1.561 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion: 84 Resp: 104704
Ion Ratio Lower Upper
84 100
49 154.7 133.8 200.8
51 45.9 41.4 62.0
86 65.0 51.5 77.3

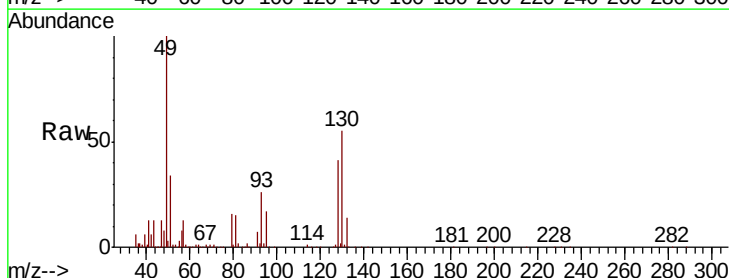


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

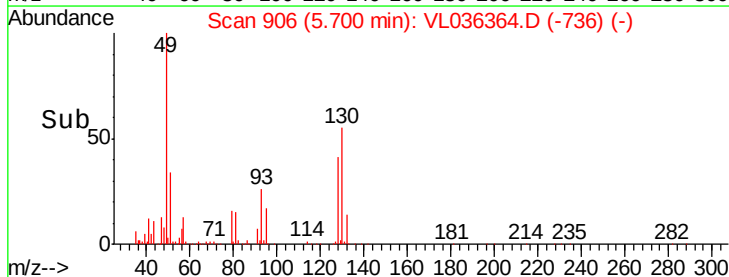
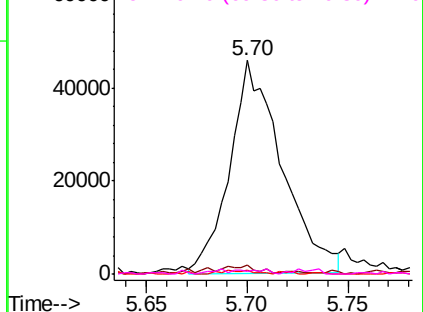


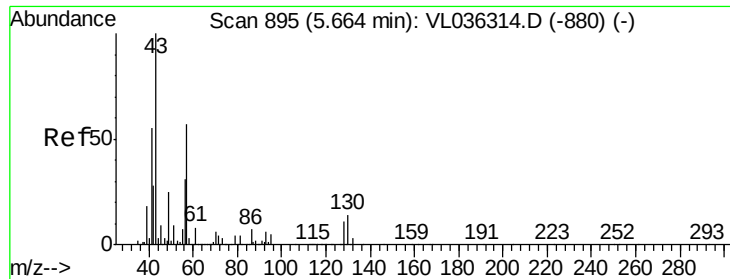
#25
Ethyl Acetate
Concen: 0.206 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.05 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Tgt Ion: 43 Resp: 82532
Ion Ratio Lower Upper
43 100
45 5.8 8.3 12.5#
61 1.7 7.3 10.9#
70 0.0 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

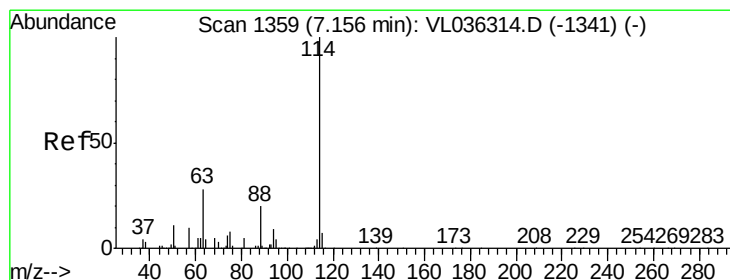
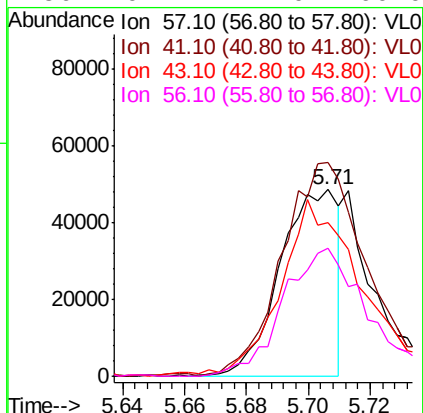
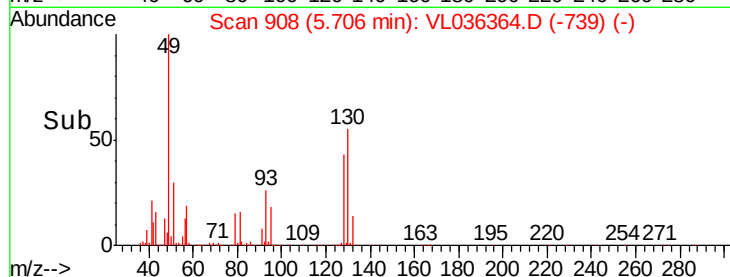
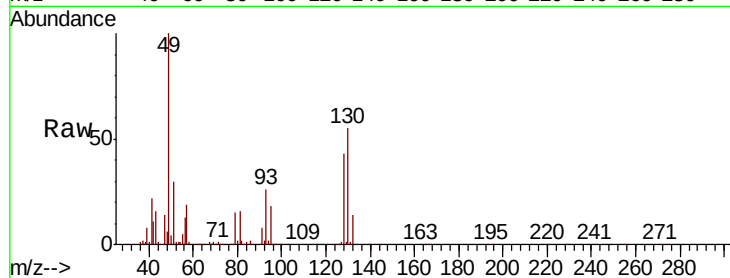




#26
Hexane
Concen: 0.386 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

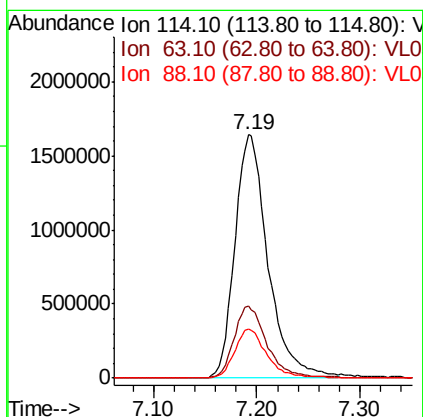
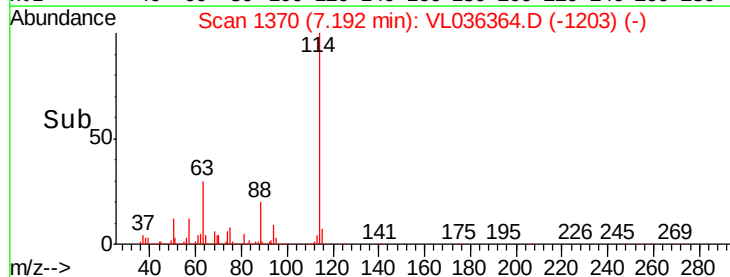
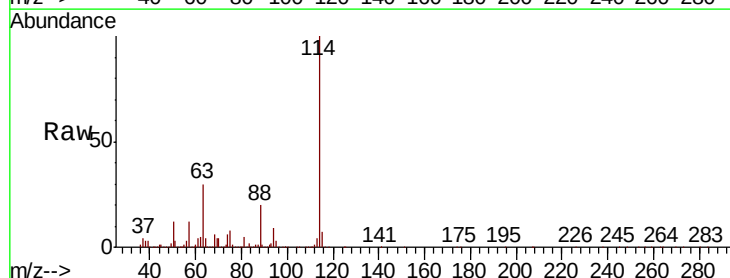
Instrument :
MSVOA_L
ClientSampleId :
NS-2

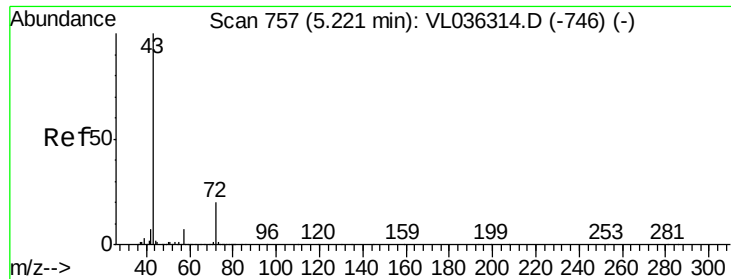
Tot Ion: 57 Resp: 63612
Ion Ratio Lower Upper
57 100
41 176.6 81.7 122.5#
43 137.3 199.1 298.7#
56 102.7 44.0 66.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Tgt Ion: 114 Resp: 3674537
Ion Ratio Lower Upper
114 100
63 29.5 24.1 36.1
88 19.9 16.0 24.0





#34

2-Butanone

Concen: 0.209 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

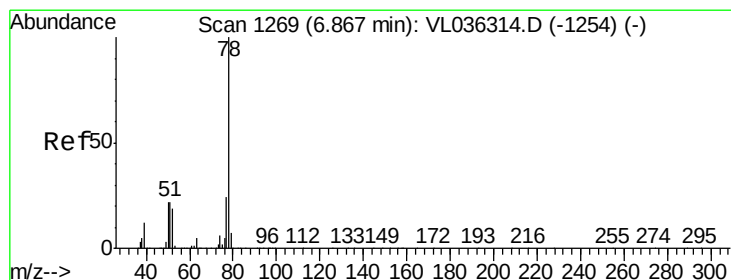
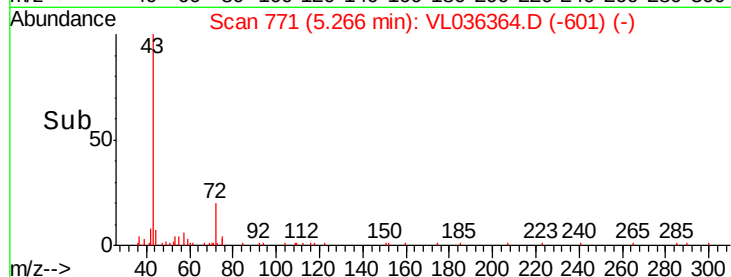
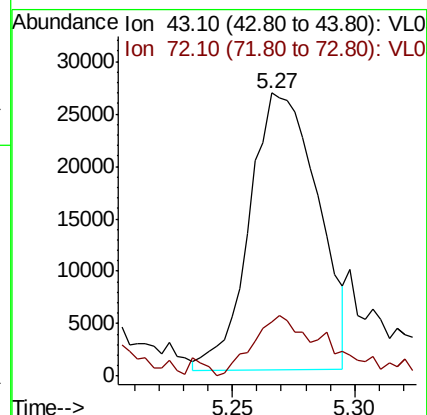
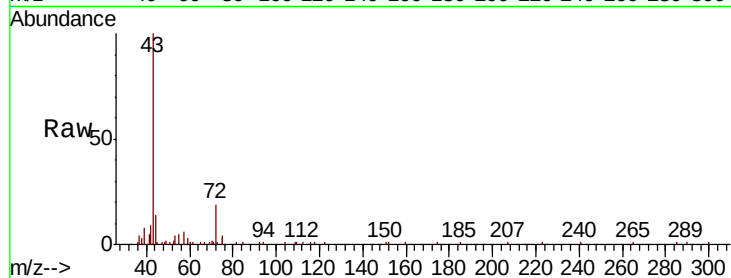
NS-2

Tot Ion: 43 Resp: 51102

Ion Ratio Lower Upper

43 100

72 29.8 16.7 25.1#



#36

Benzene

Concen: 0.446 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

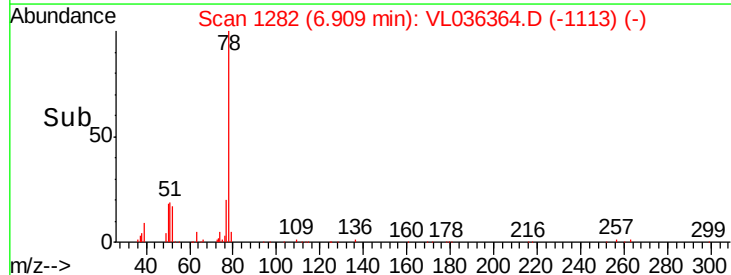
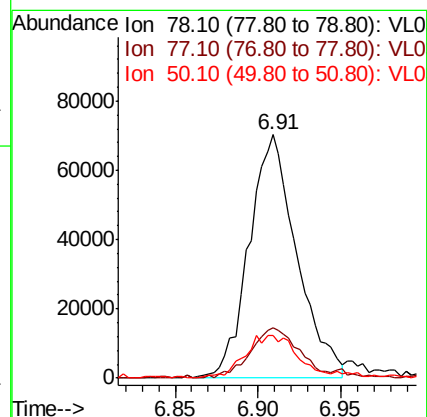
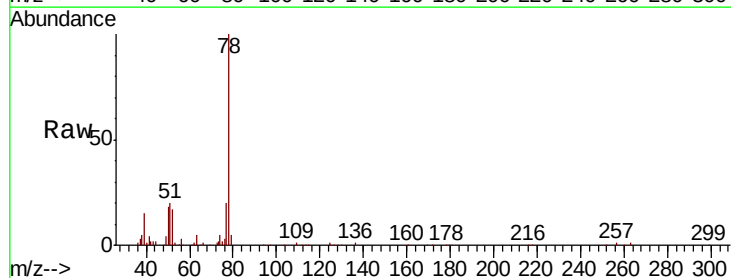
Tgt Ion: 78 Resp: 139344

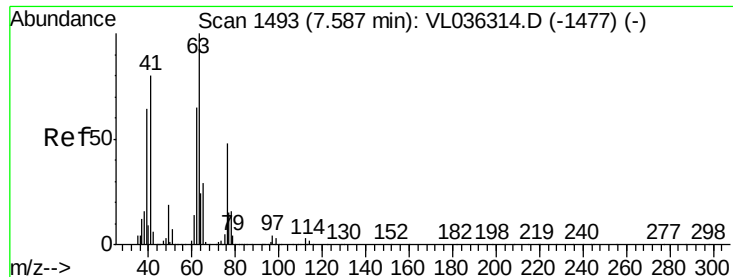
Ion Ratio Lower Upper

78 100

77 19.8 18.9 28.3

50 17.8 17.3 25.9





#39

1,2-Dichloropropane

Concen: 8.378 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.40 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

NS-2

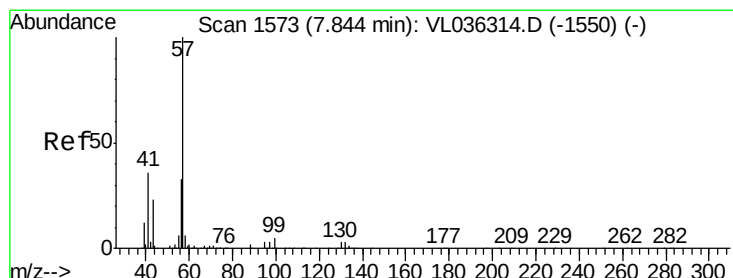
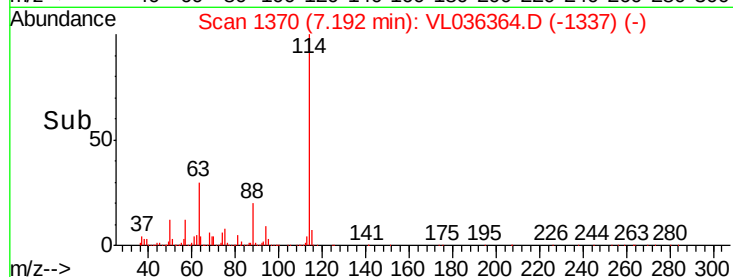
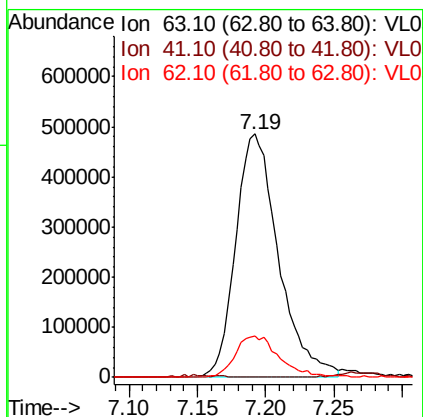
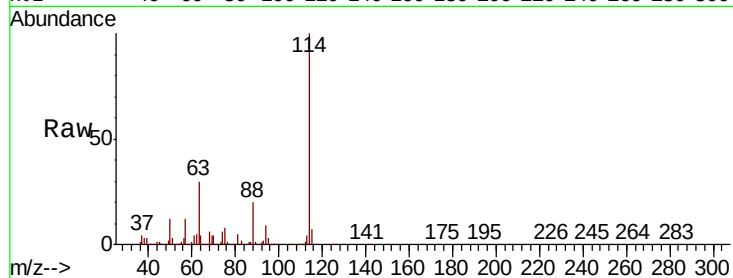
Tot Ion: 63 Resp: 1062328

Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

62 17.2 52.3 78.5#



#44

2,2,4-Trimethylpentane

Concen: 0.133 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

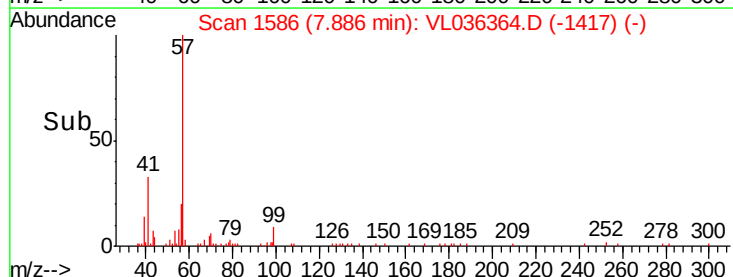
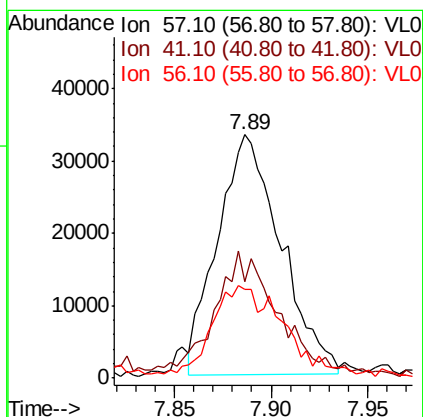
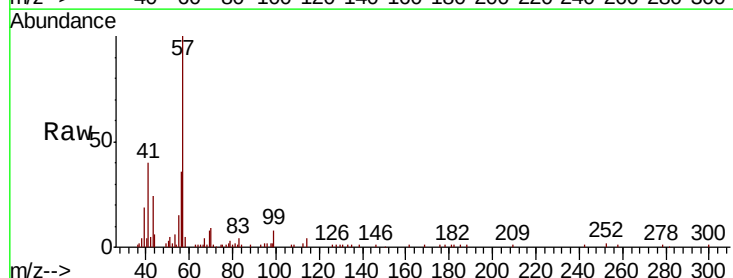
Tgt Ion: 57 Resp: 75638

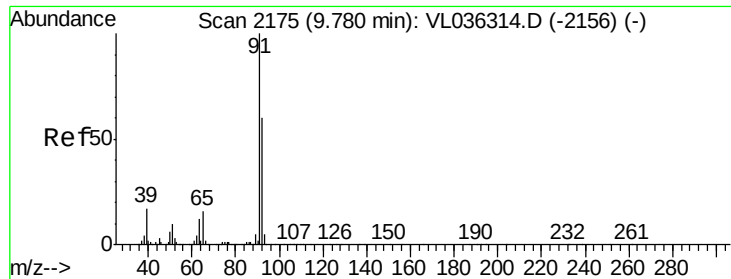
Ion Ratio Lower Upper

57 100

41 54.7 28.8 43.2#

56 47.5 25.8 38.6#





#53

Toluene

Concen: 0.779 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

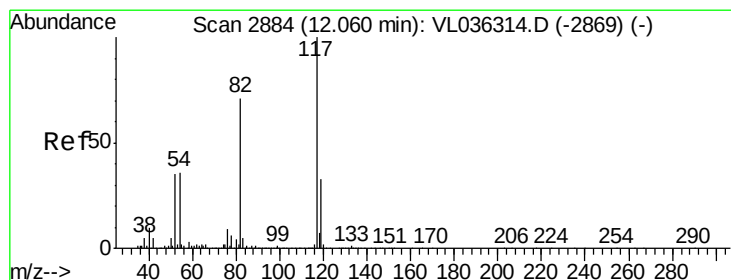
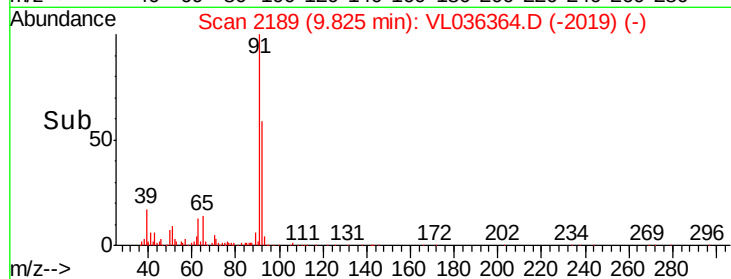
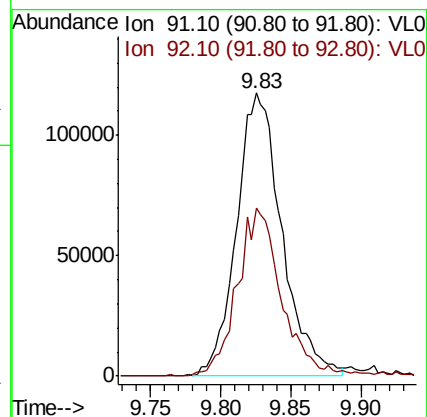
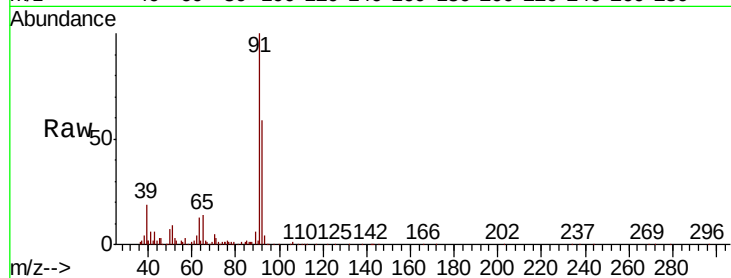
NS-2

Tot Ion: 91 Resp: 263419

Ion Ratio Lower Upper

91 100

92 58.3 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.05 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

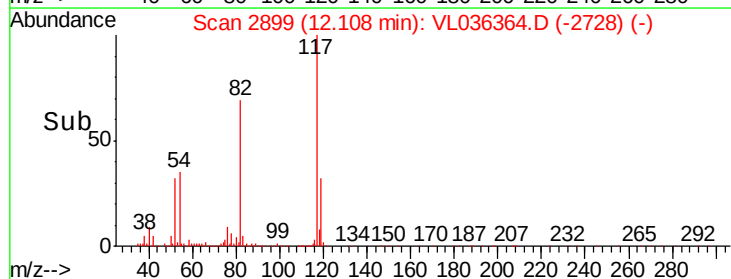
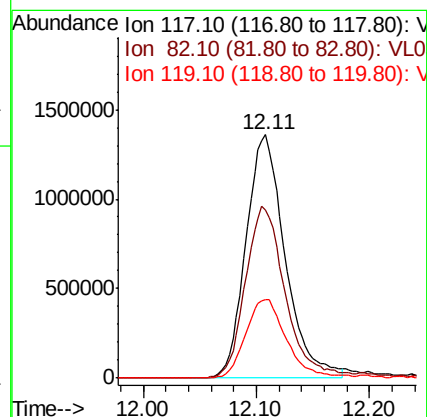
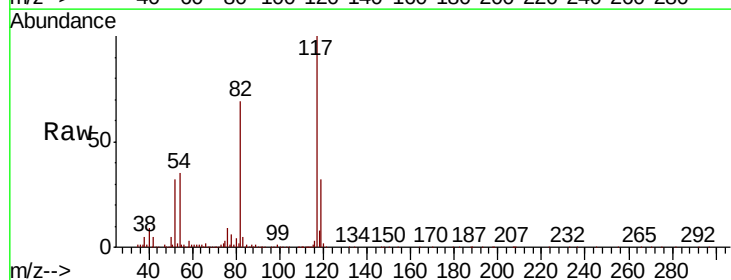
Tgt Ion: 117 Resp: 3278523

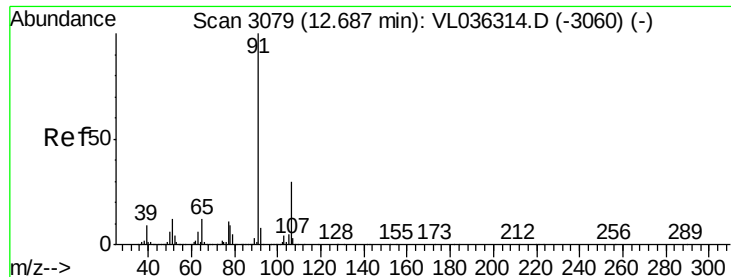
Ion Ratio Lower Upper

117 100

82 74.3 59.1 88.7

119 35.0 46.3 69.5#





#58

Ethyl Benzene

Concen: 0.042 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. 0.04 min

Lab File: VL036364.D

Acq: 25 Feb 2021 00:01

Instrument :

MSVOA_L

ClientSampleId :

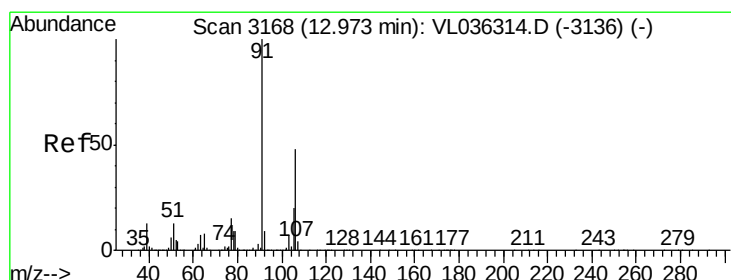
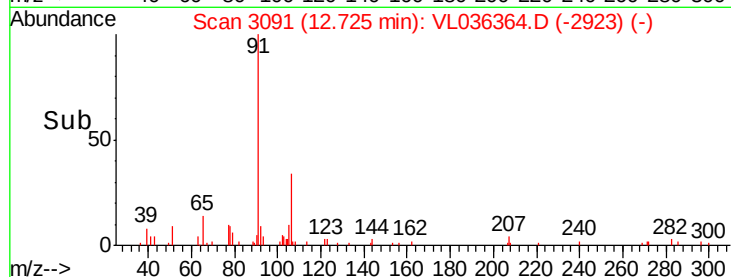
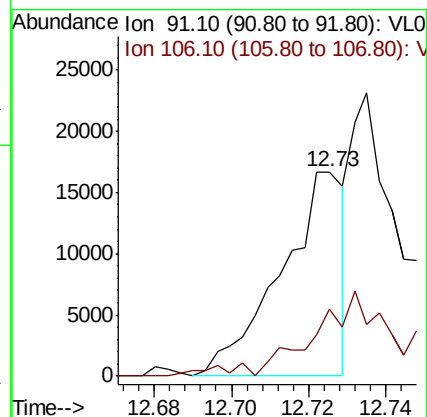
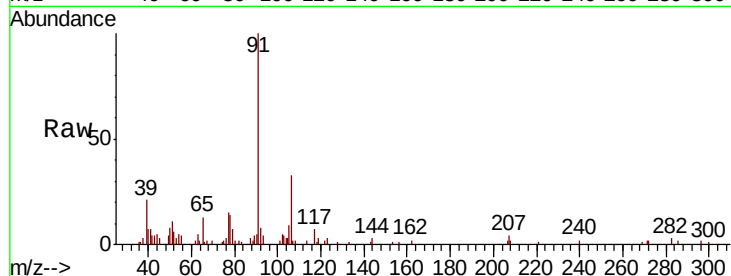
NS-2

Tot Ion: 91 Resp: 18926

Ion Ratio Lower Upper

91 100

106 30.4 23.8 35.6



#59

m/p-Xylene

Concen: 0.059 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. 0.05 min

Lab File: VL036364.D

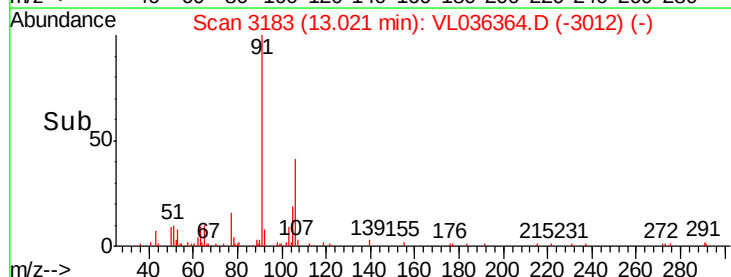
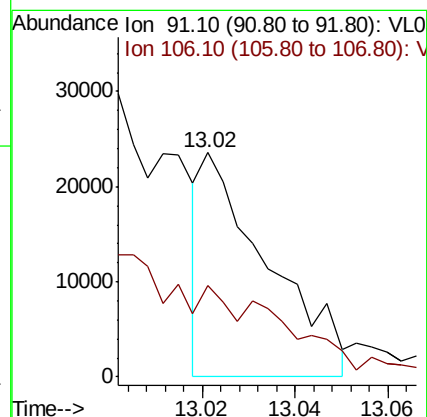
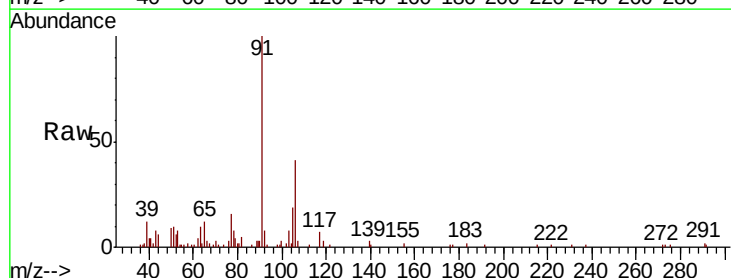
Acq: 25 Feb 2021 00:01

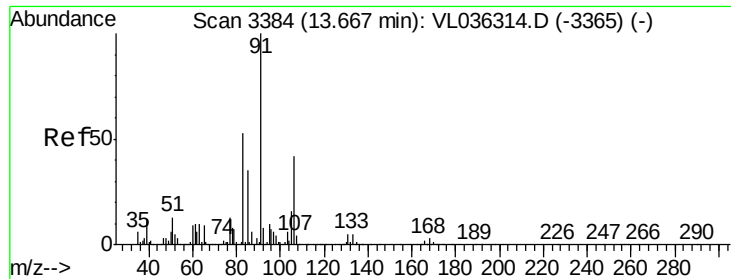
Tgt Ion: 91 Resp: 23459

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

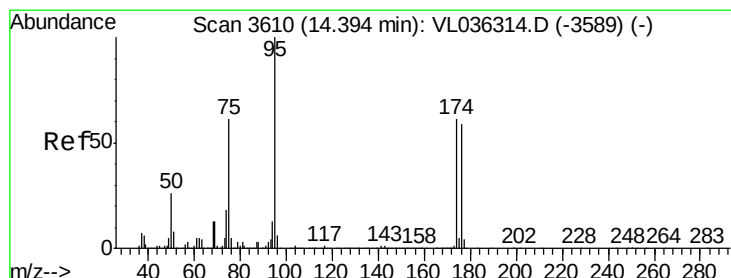
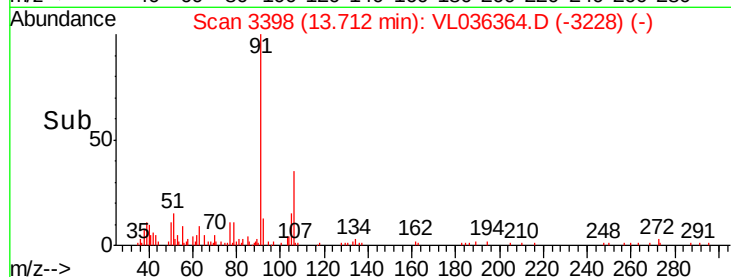
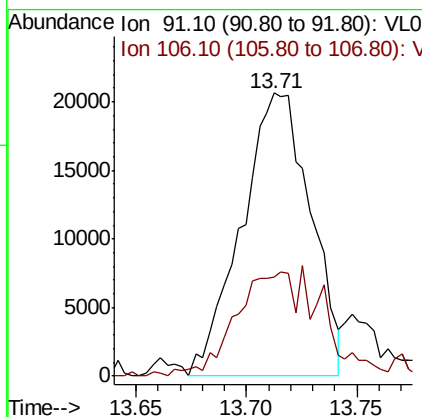
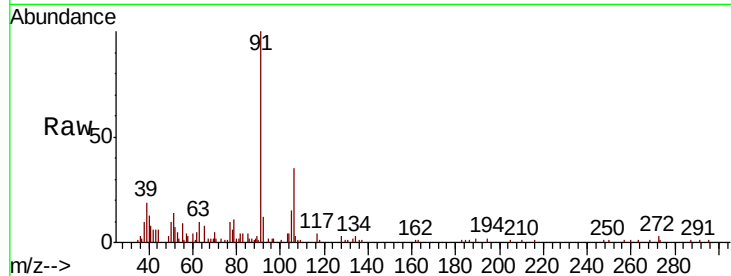




#60
o-Xylene
Concen: 0.119 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.05 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion: 91 Resp: 44777
Ion Ratio Lower Upper
91 100
106 48.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.278 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.04 min
Lab File: VL036364.D
Acq: 25 Feb 2021 00:01

Tgt Ion: 95 Resp: 2772530
Ion Ratio Lower Upper
95 100
174 61.7 49.8 74.6
175 4.4 3.7 5.5

