

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036362.D
 Acq On : 24 Feb 2021 22:40
 Operator : SY/AP
 Sample : M1463-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DL

Quant Time: Feb 25 05:20:38 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	1600023	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3661867	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3331140	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2548257	9.30	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

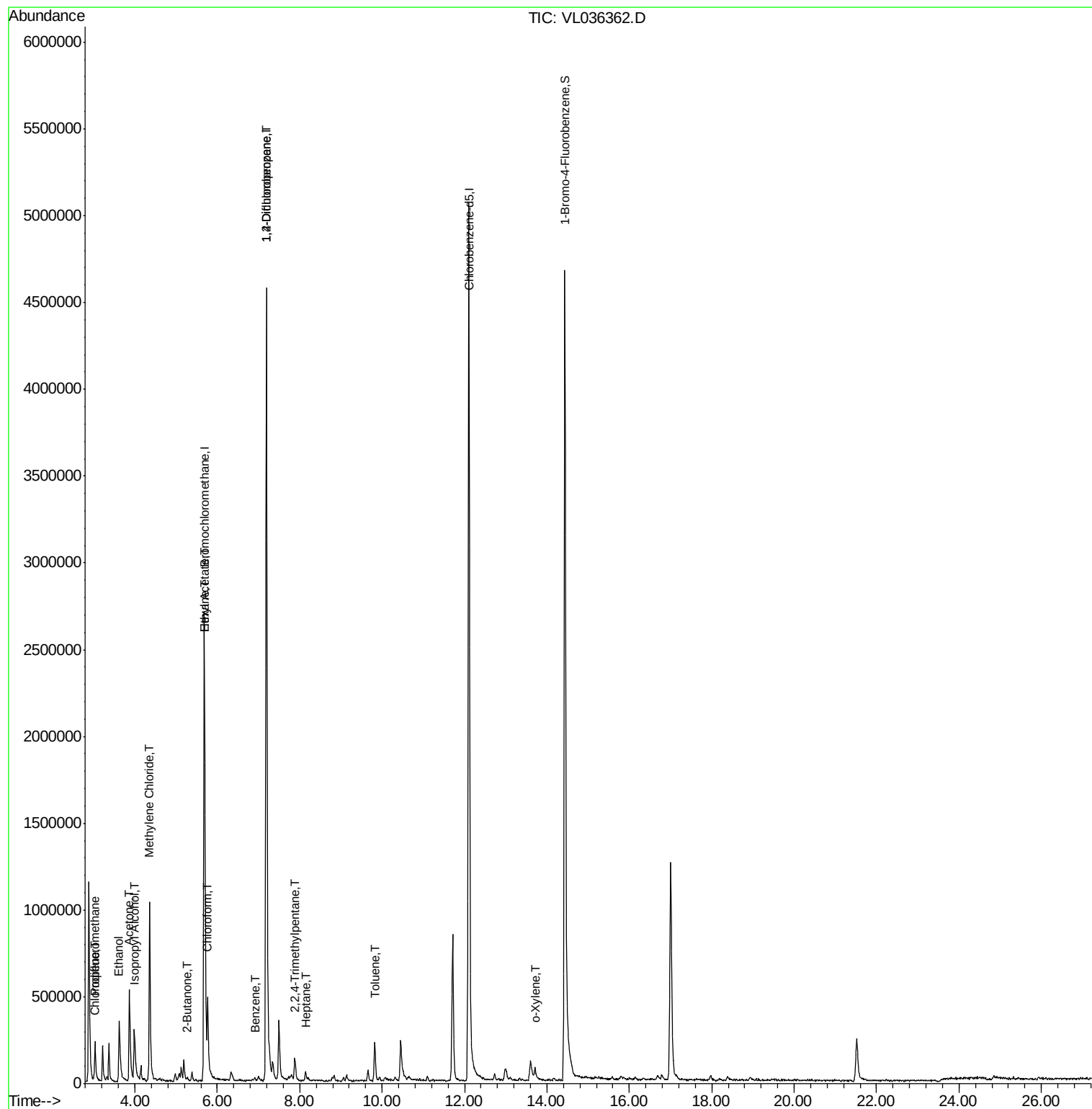
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	9439	0.047	ppbv	92
9) Propene	3.03	41	64928	0.876	ppbv	88
10) Heptane	8.14	43	10015	0.046	ppbv #	32
13) Ethanol	3.61	45	171393	12.311	ppbv #	32
15) Acetone	3.86	43	674868	3.451	ppbv	96
19) Isopropyl Alcohol	3.99	45	400937	3.700	ppbv #	98
20) Methylene Chloride	4.36	84	388723	6.160	ppbv	95
25) Ethyl Acetate	5.70	43	103159	0.273	ppbv #	83
26) Hexane	5.70	57	127725	0.823	ppbv #	42
29) Chloroform	5.76	83	299631	1.199	ppbv	99
34) 2-Butanone	5.27	43	9379	0.039	ppbv #	4
36) Benzene	6.91	78	10055	0.032	ppbv #	72
39) 1,2-Dichloropropane	7.19	63	1047088	8.287	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	50922	0.090	ppbv #	1
53) Toluene	9.83	91	147412	0.438	ppbv	96
60) o-Xylene	13.71	91	21235	0.055	ppbv #	50

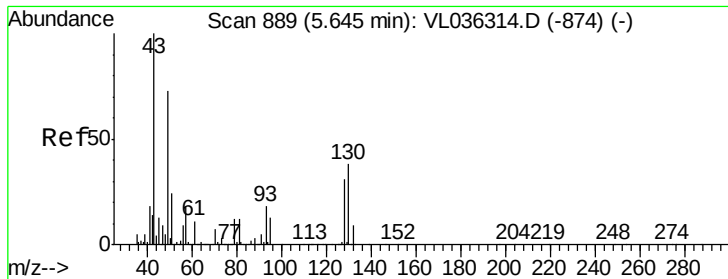
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 25 05:20:38 2021
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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: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

NS-1DL

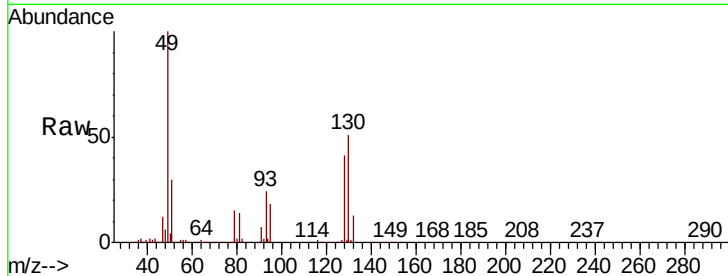
Tot Ion: 49 Resp: 1600023

Ion Ratio Lower Upper

49 100

128 44.2 20.8 62.5

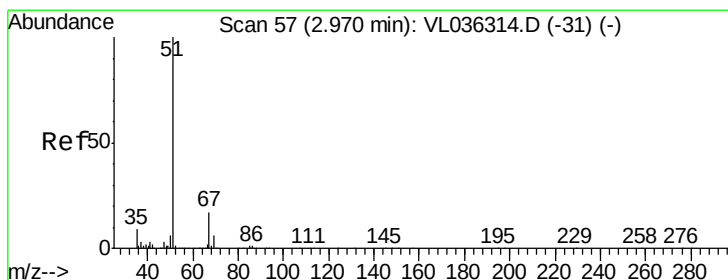
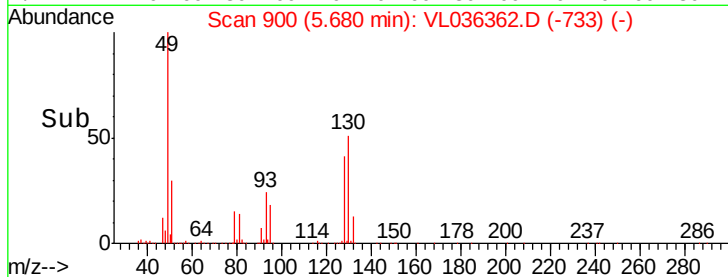
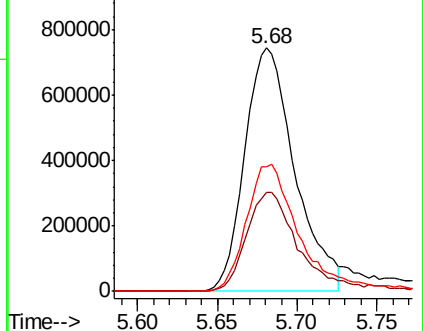
130 57.1 26.7 80.1



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



#3

Chlorodifluoromethane

Concen: 0.047 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.04 min

Lab File: VL036362.D

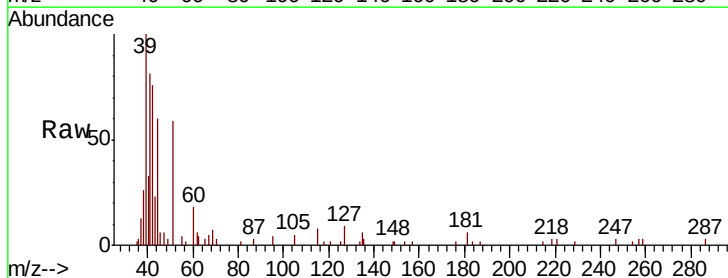
Acq: 24 Feb 2021 22:40

Tgt Ion: 51 Resp: 9439

Ion Ratio Lower Upper

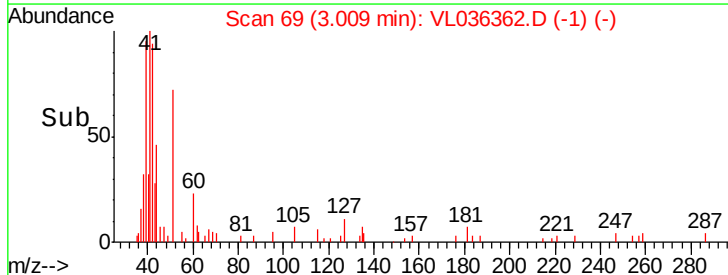
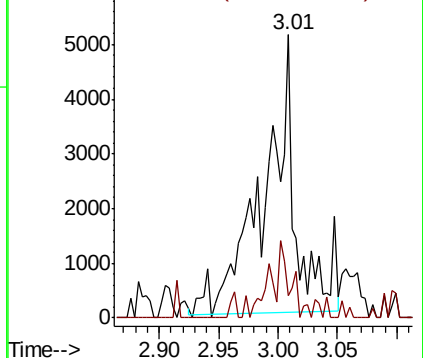
51 100

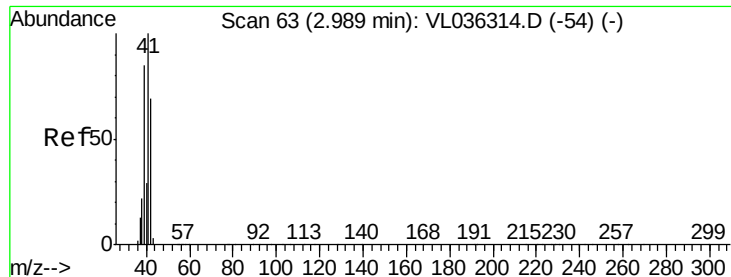
67 22.0 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.876 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.04 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

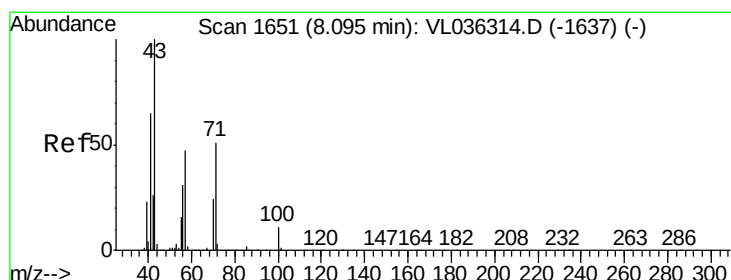
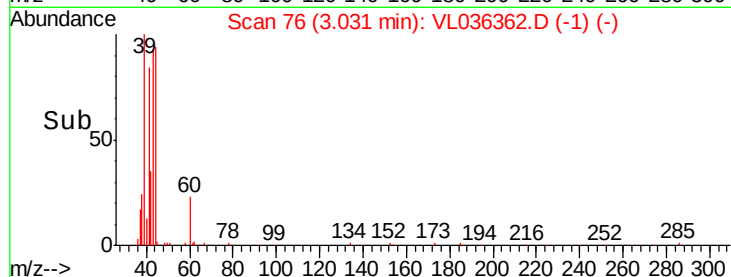
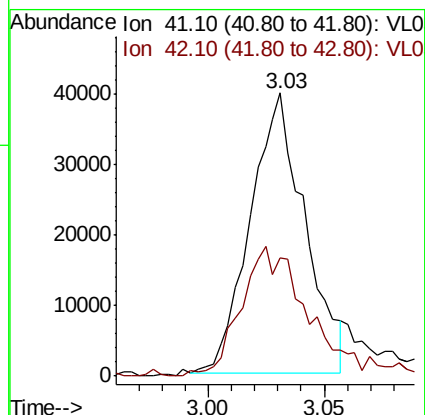
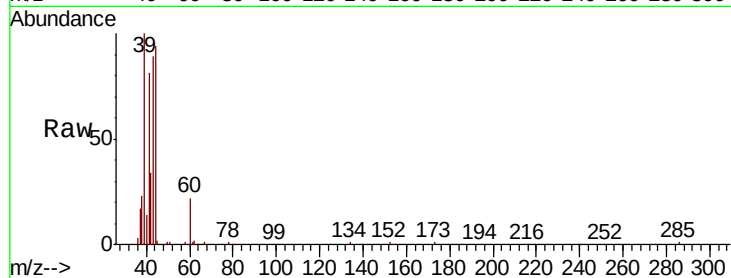
NS-1DL

Tot Ion: 41 Resp: 64928

Ion Ratio Lower Upper

41 100

42 60.0 56.2 84.2



#10

Heptane

Concen: 0.046 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.05 min

Lab File: VL036362.D

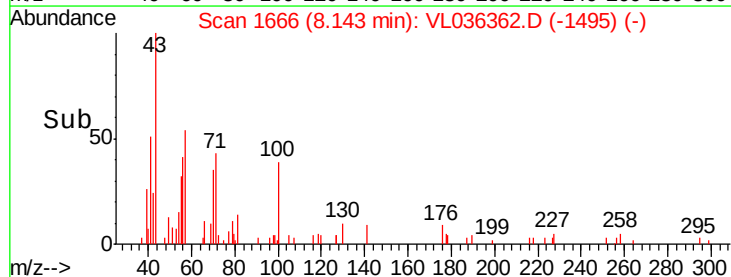
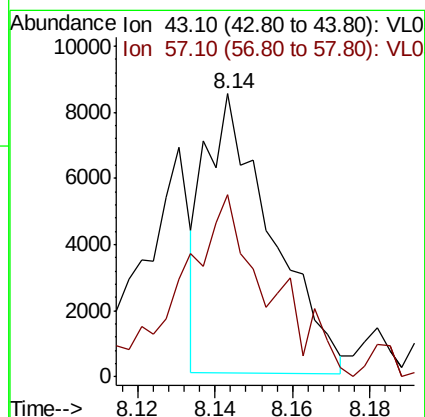
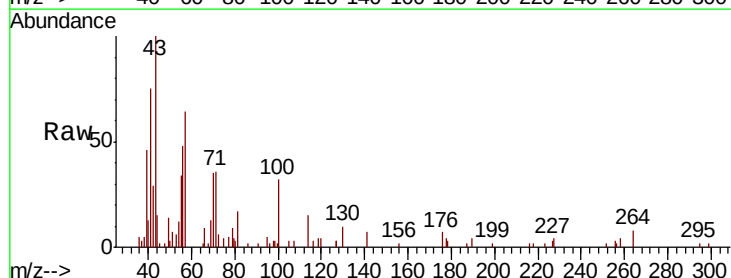
Acq: 24 Feb 2021 22:40

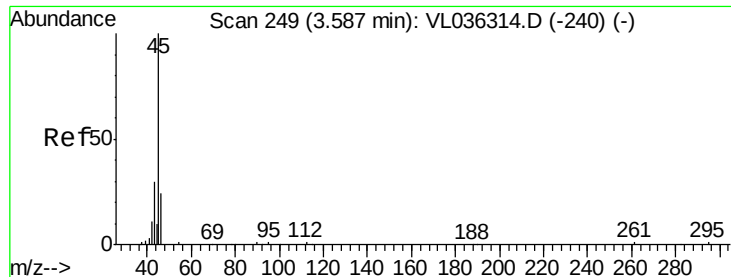
Tgt Ion: 43 Resp: 10015

Ion Ratio Lower Upper

43 100

57 96.0 39.4 59.2#





#13

Ethanol

Concen: 12.311 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.03 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

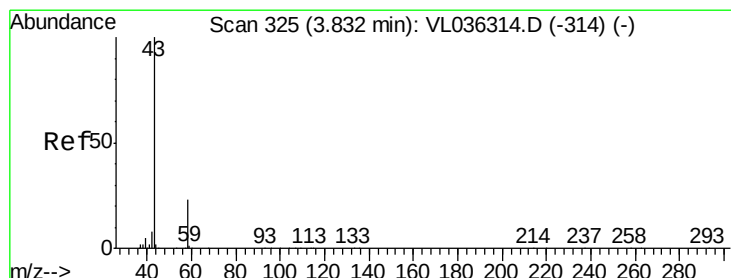
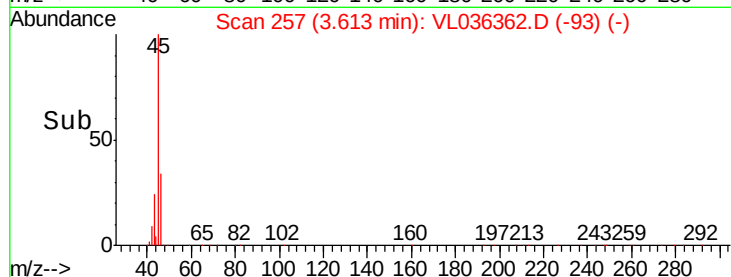
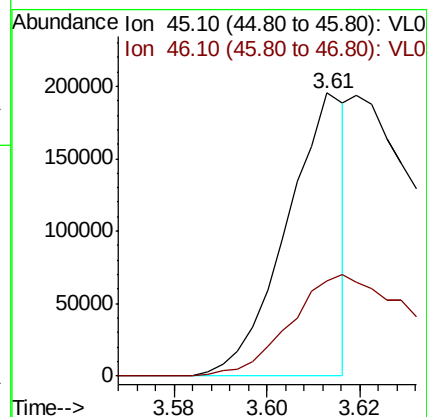
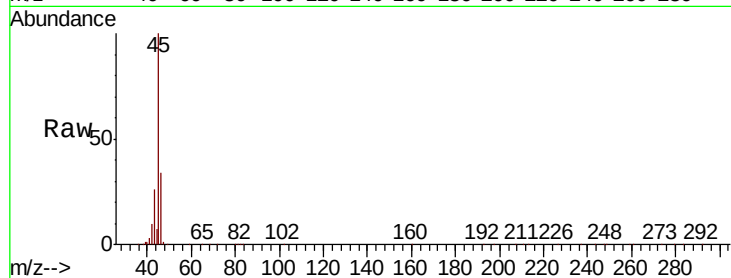
NS-1DL

Tot Ion: 45 Resp: 171393

Ion Ratio Lower Upper

45 100

46 0.0 17.7 70.7#



#15

Acetone

Concen: 3.451 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL036362.D

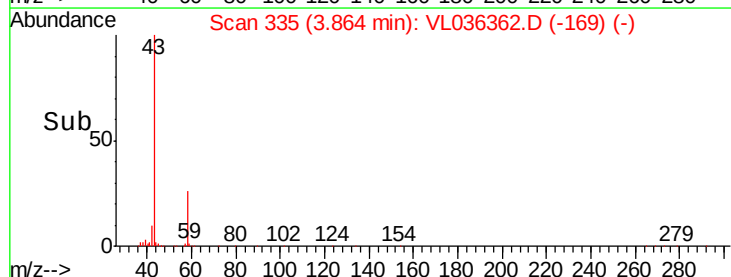
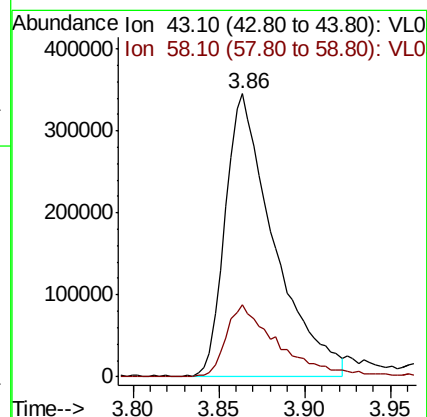
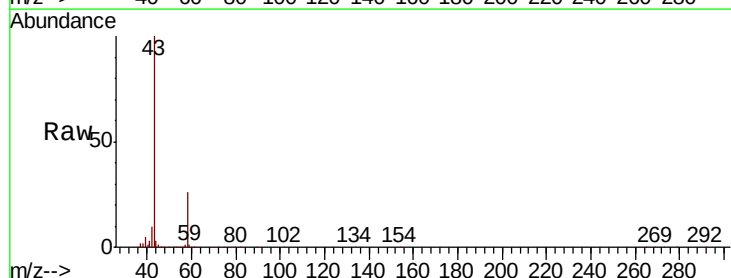
Acq: 24 Feb 2021 22:40

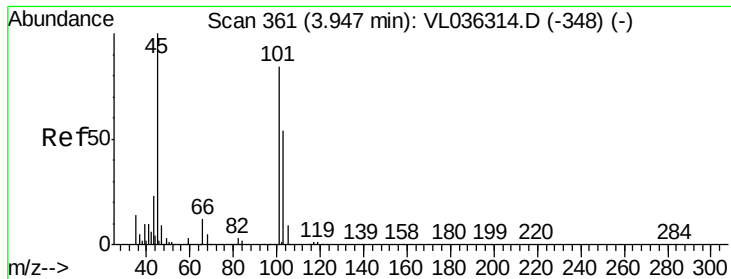
Tgt Ion: 43 Resp: 674868

Ion Ratio Lower Upper

43 100

58 27.6 20.3 30.5





#19

Isopropyl Alcohol

Concen: 3.700 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.04 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

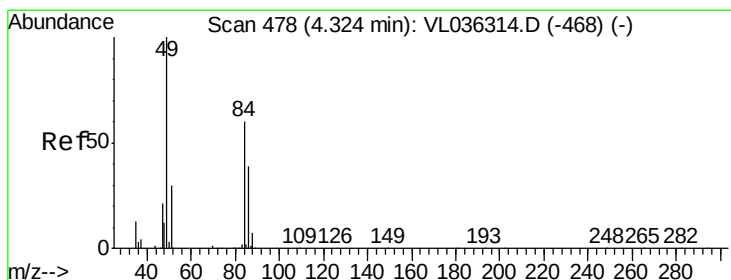
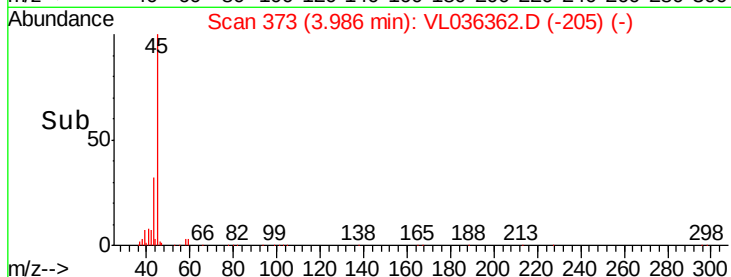
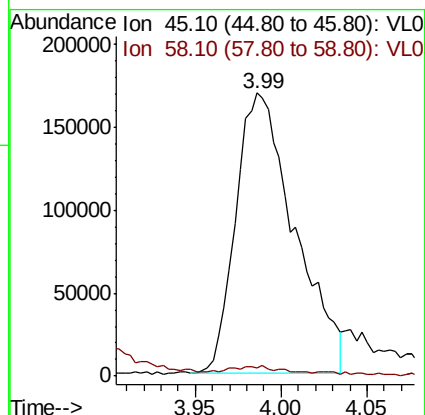
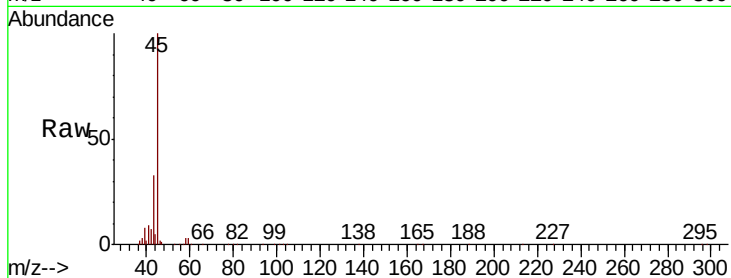
NS-1DL

Tot Ion: 45 Resp: 400937

Ion Ratio Lower Upper

45 100

58 3.2 1.9 2.9#



#20

Methylene Chloride

Concen: 6.160 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Tgt Ion: 84 Resp: 388723

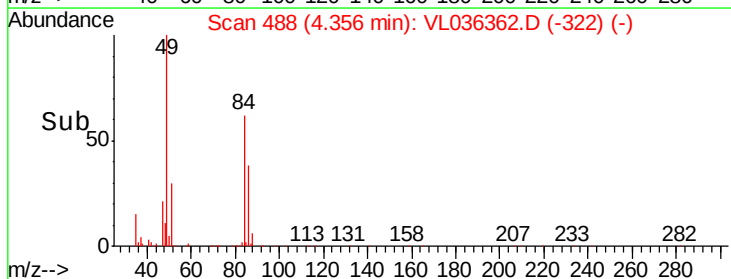
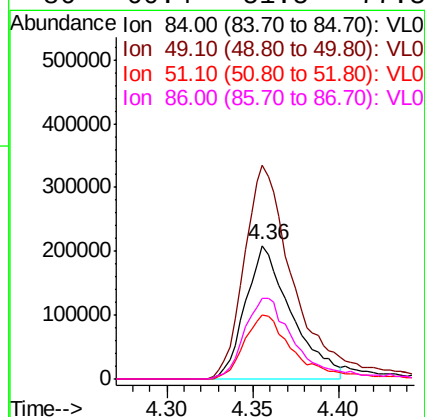
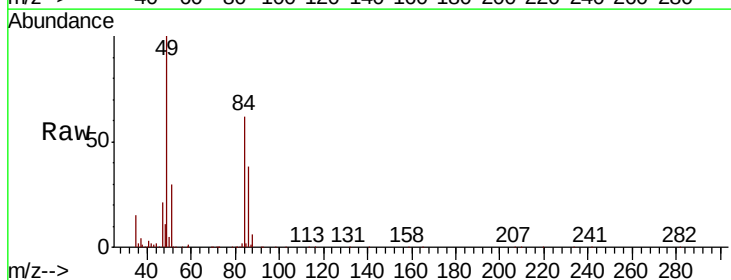
Ion Ratio Lower Upper

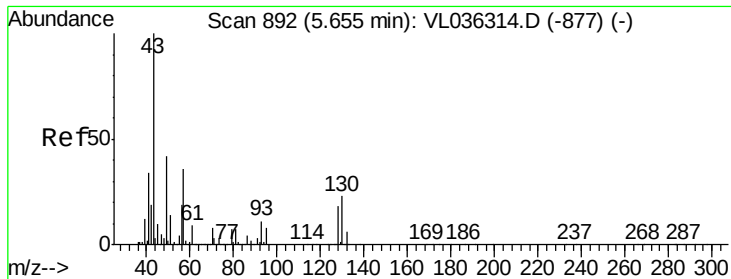
84 100

49 160.2 133.8 200.8

51 47.9 41.4 62.0

86 60.4 51.5 77.3

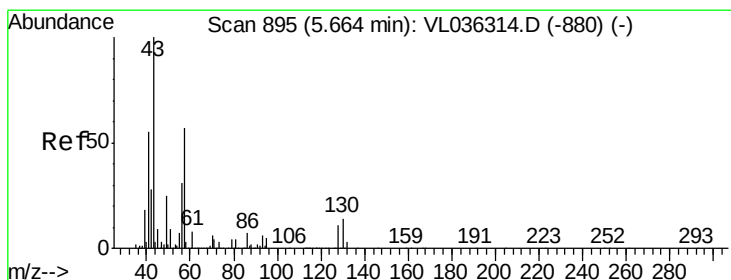
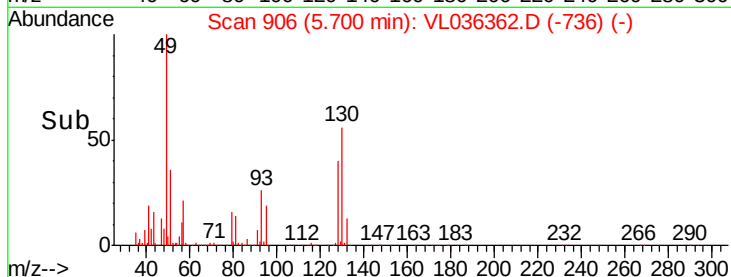
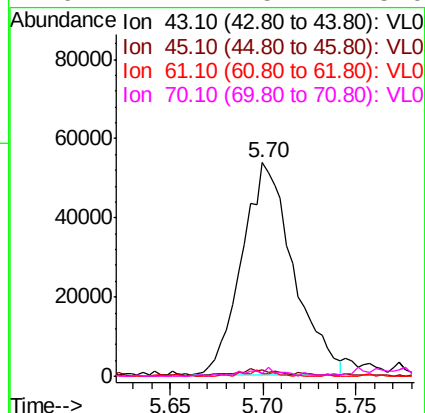
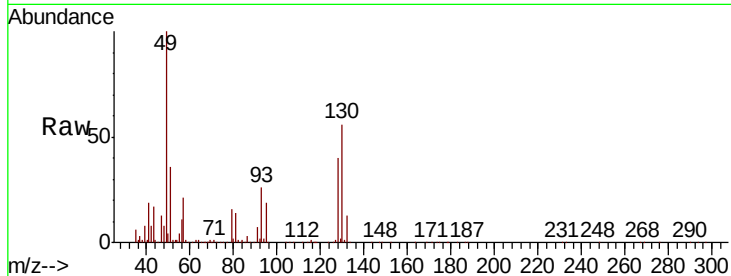




#25
Ethyl Acetate
Concen: 0.273 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.04 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

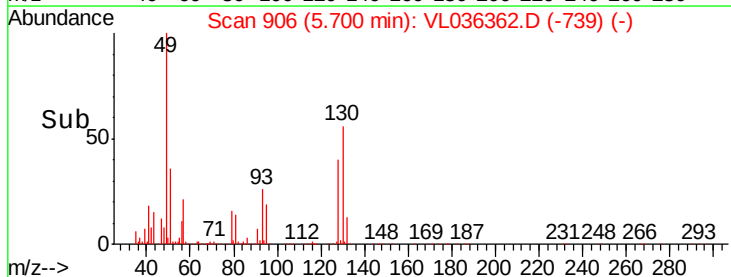
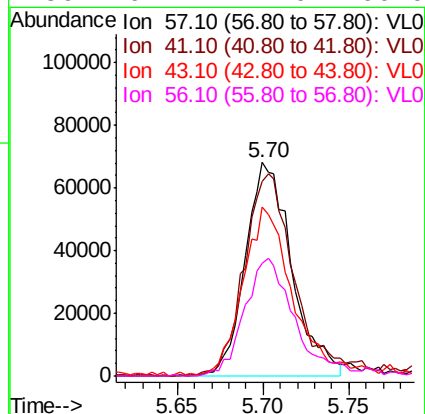
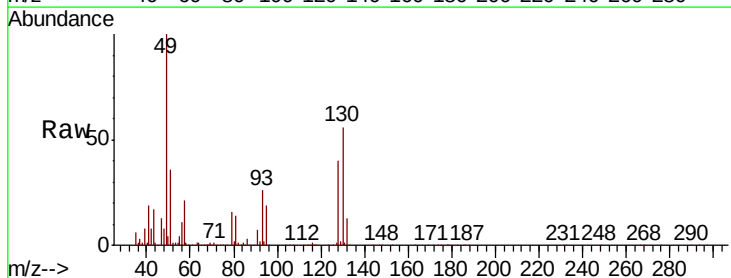
Instrument :
MSVOA_L
ClientSampleId :
NS-1DL

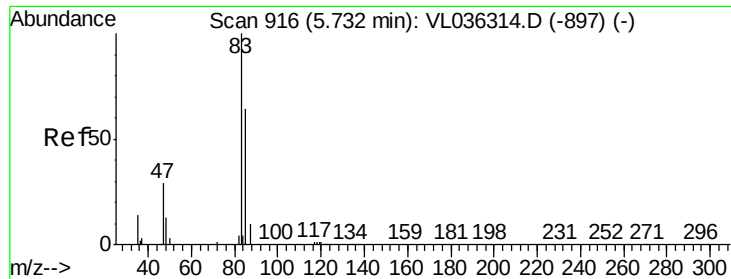
Tot Ion:	43	Resp:	103159
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.3	12.5#
61	1.5	7.3	10.9#
70	2.4	5.4	8.0#



#26
Hexane
Concen: 0.823 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.04 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

Tgt Ion:	57	Resp:	127725
Ion	Ratio	Lower	Upper
57	100		
41	104.2	81.7	122.5
43	90.5	199.1	298.7#
56	62.1	44.0	66.0





#29

Chloroform

Concen: 1.199 ppbv

RT: 5.76 min Scan# 926

Delta R.T. 0.03 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

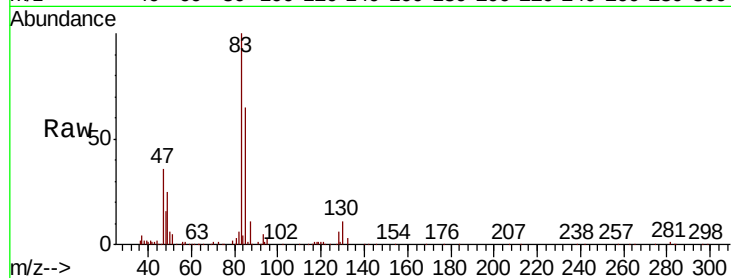
NS-1DL

Tot Ion: 83 Resp: 299631

Ion Ratio Lower Upper

83 100

85 65.0 51.4 77.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

150000

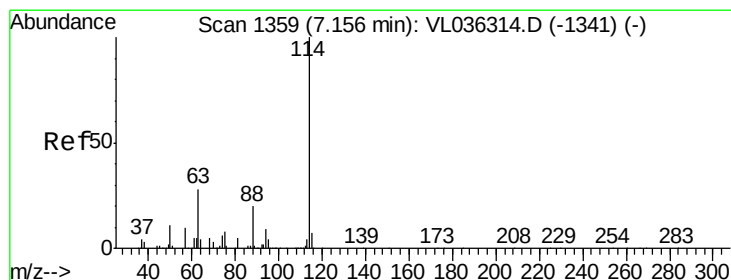
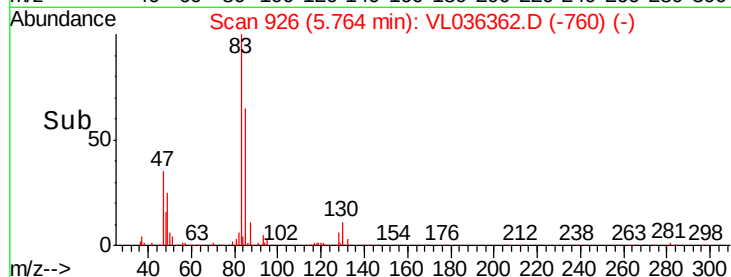
100000

50000

0

5.70 5.75 5.80 5.85

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.03 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

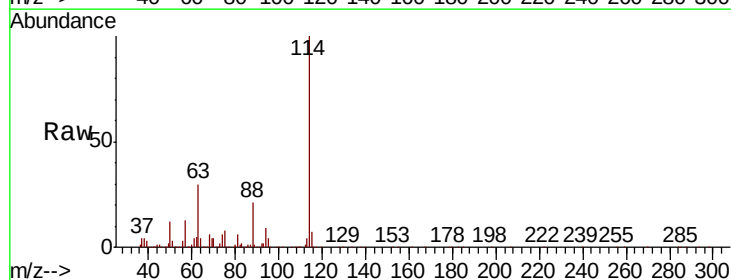
Tgt Ion: 114 Resp: 3661867

Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

88 19.9 16.0 24.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

2000000

1500000

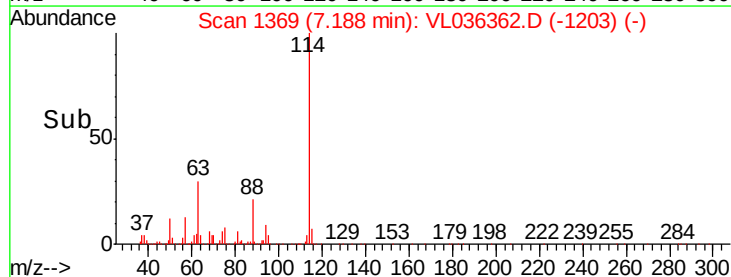
1000000

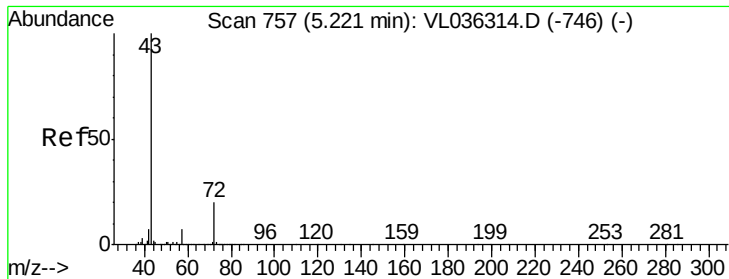
500000

0

7.10 7.20 7.30

Time-->

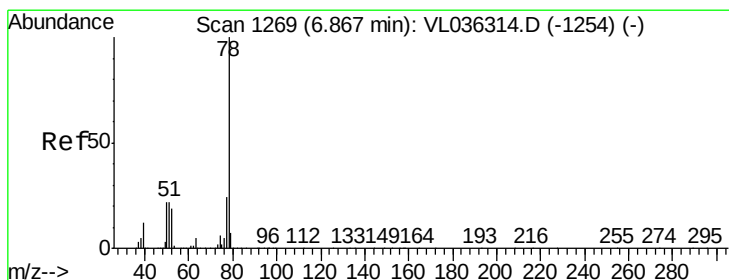
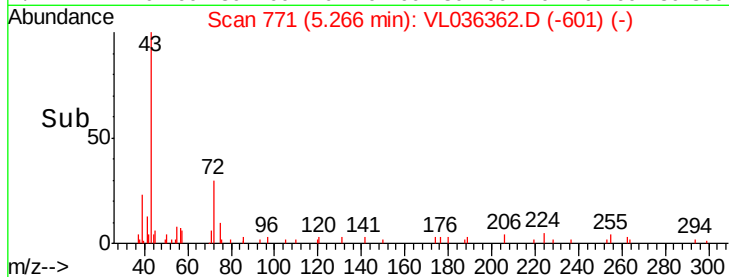
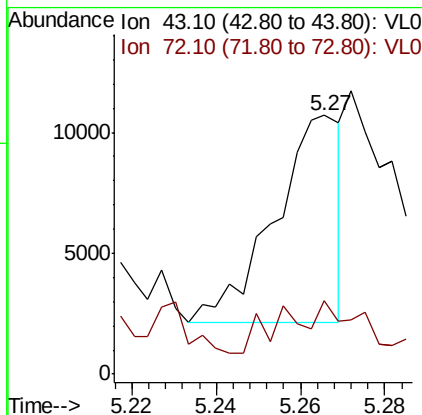
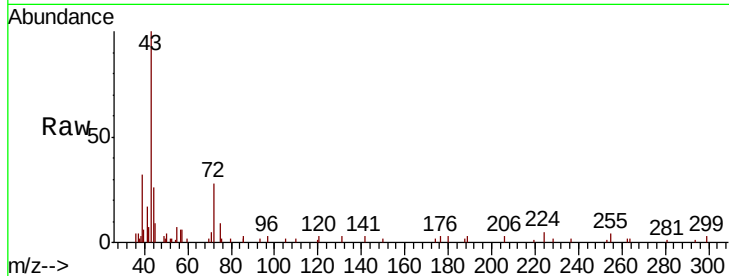




#34
2-Butanone
Concen: 0.039 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.04 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

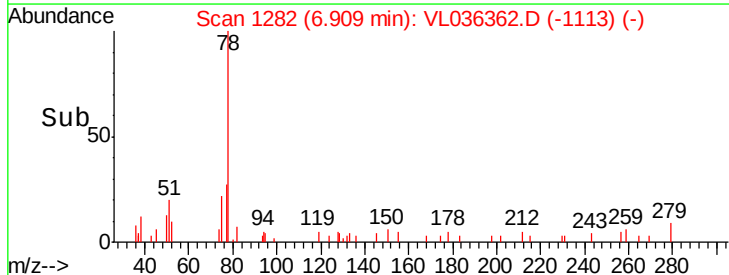
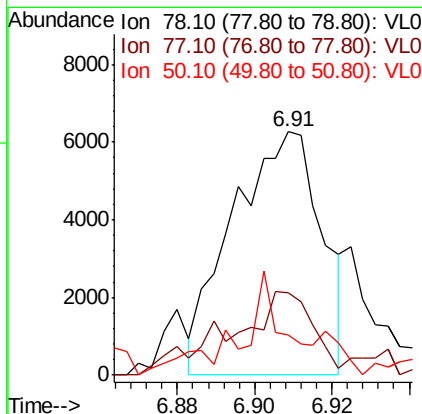
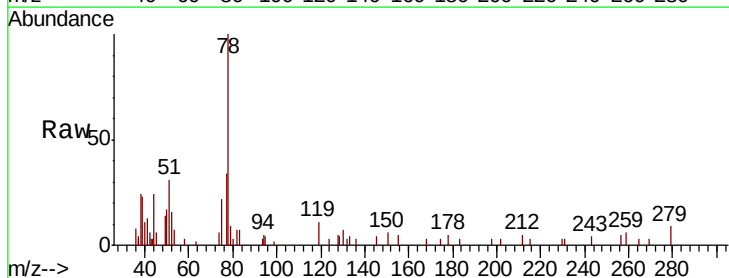
Instrument :
MSVOA_L
ClientSampleId :
NS-1DL

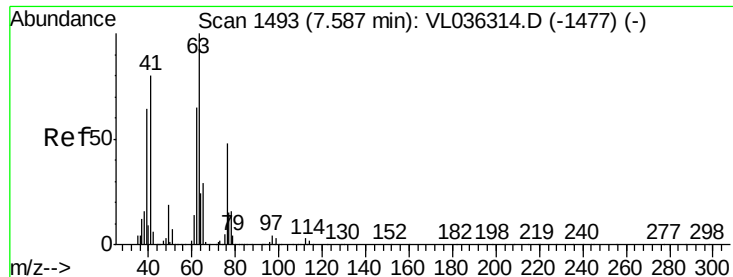
Tot Ion: 43 Resp: 9379
Ion Ratio Lower Upper
43 100
72 65.7 16.7 25.1#



#36
Benzene
Concen: 0.032 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.04 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

Tgt Ion: 78 Resp: 10055
Ion Ratio Lower Upper
78 100
77 36.5 18.9 28.3#
50 8.0 17.3 25.9#

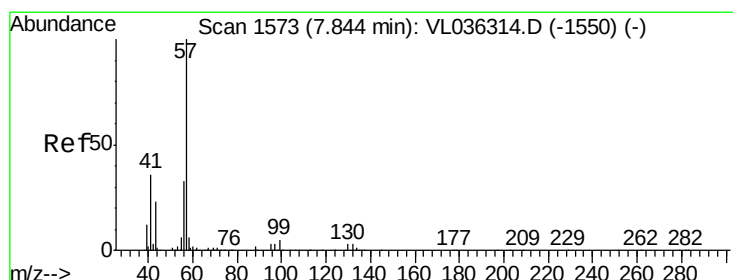
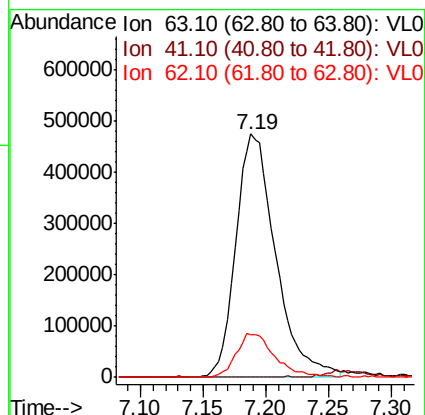
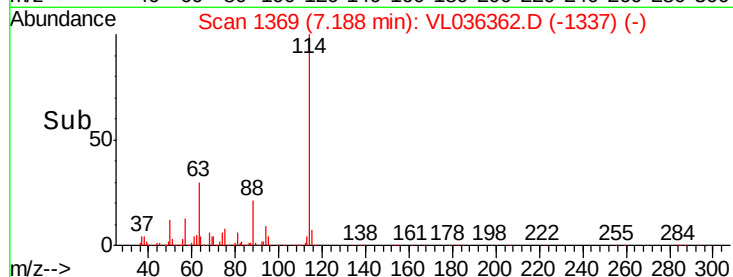
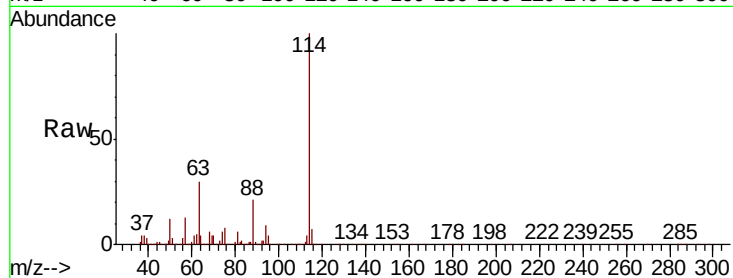




#39
 1,2-Dichloropropane
 Concen: 8.287 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.40 min
 Lab File: VL036362.D
 Acq: 24 Feb 2021 22:40

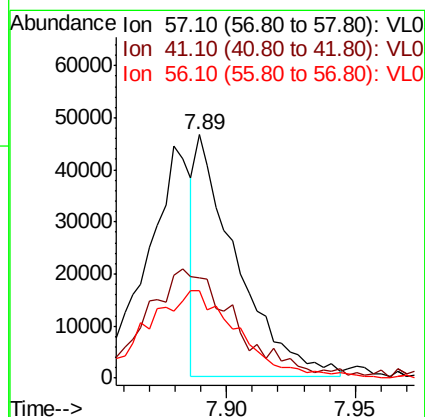
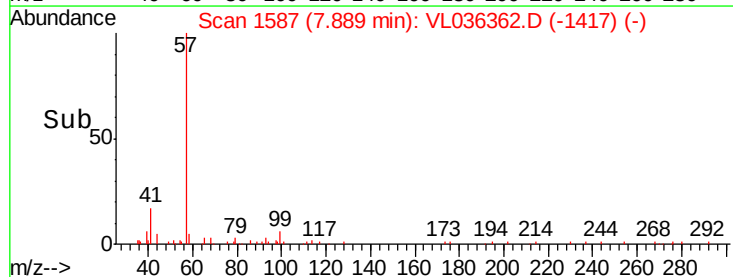
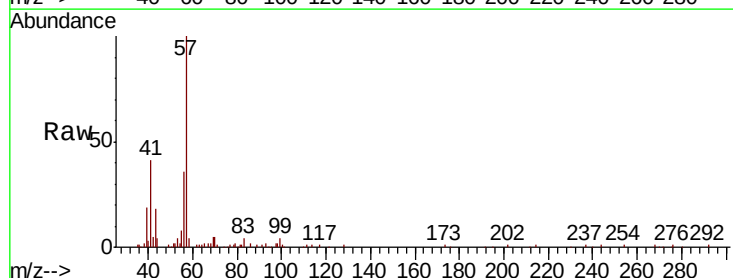
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DL

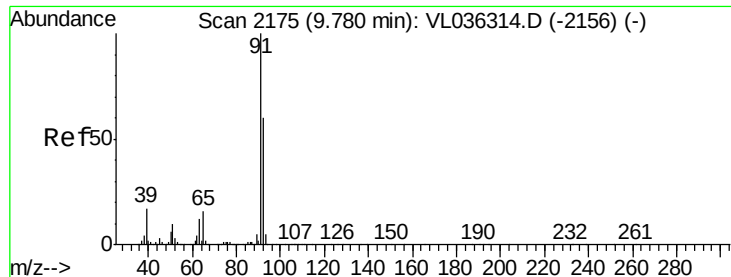
Tot Ion: 63 Resp: 1047088
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 17.3 52.3 78.5#



#44
 2,2,4-Trimethylpentane
 Concen: 0.090 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.05 min
 Lab File: VL036362.D
 Acq: 24 Feb 2021 22:40

Tgt Ion: 57 Resp: 50922
 Ion Ratio Lower Upper
 57 100
 41 98.4 28.8 43.2#
 56 84.0 25.8 38.6#





#53

Toluene

Concen: 0.438 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.05 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

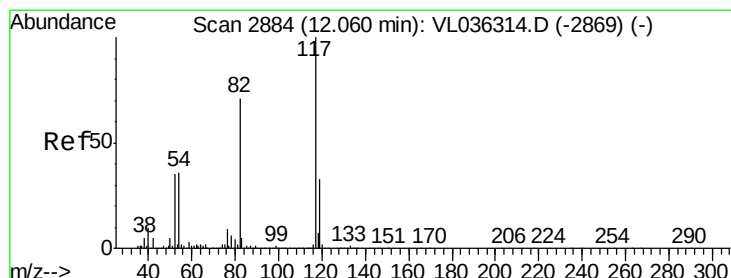
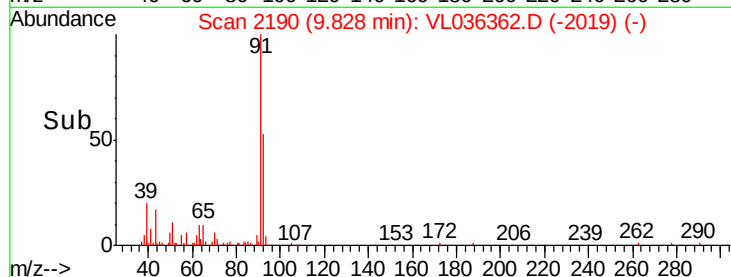
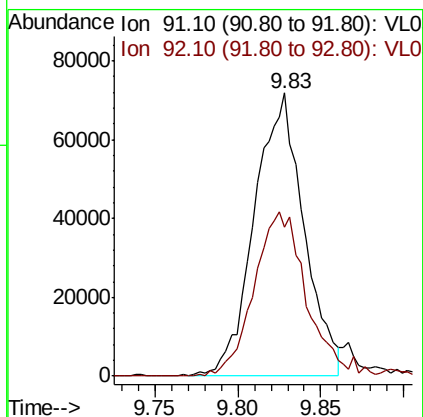
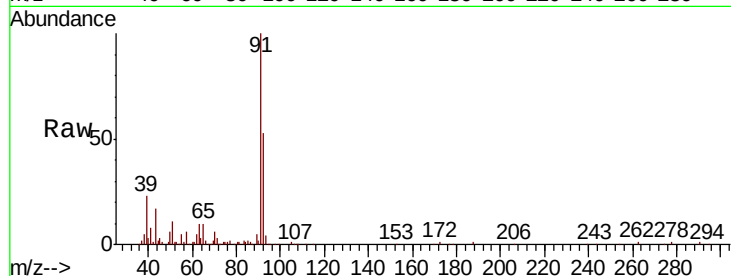
NS-1DL

Tot Ion: 91 Resp: 147412

Ion Ratio Lower Upper

91 100

92 64.1 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.04 min

Lab File: VL036362.D

Acq: 24 Feb 2021 22:40

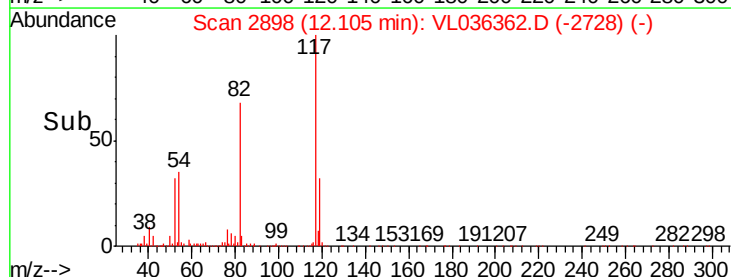
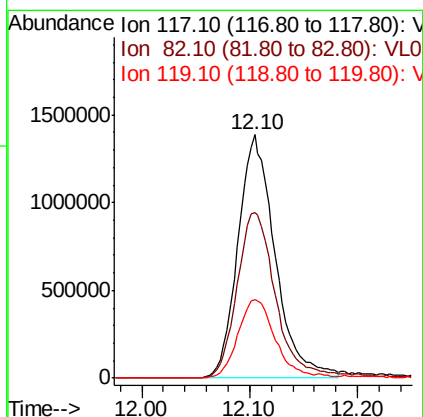
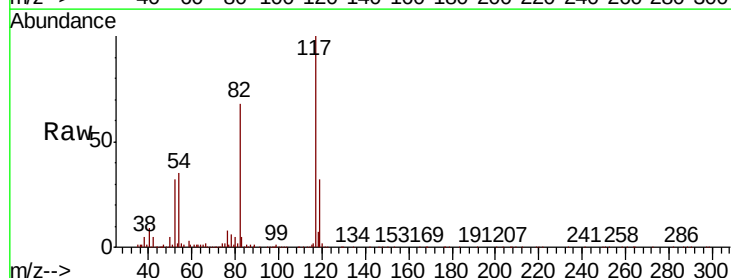
Tgt Ion: 117 Resp: 3331140

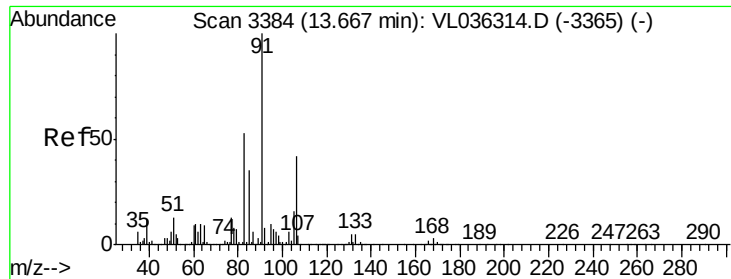
Ion Ratio Lower Upper

117 100

82 72.6 59.1 88.7

119 34.0 46.3 69.5#

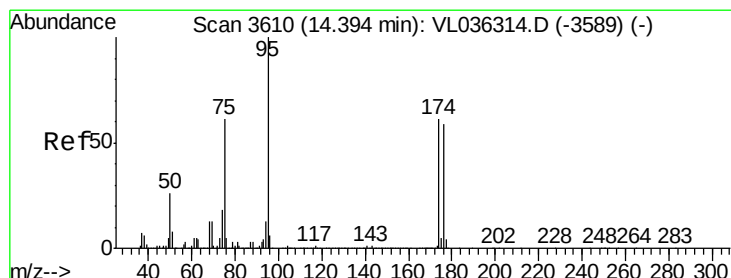
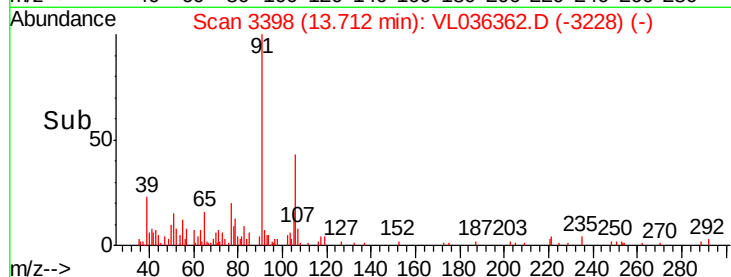
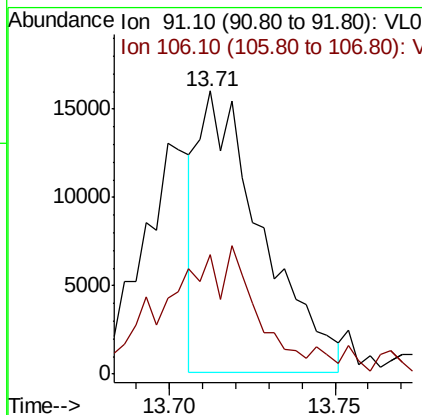
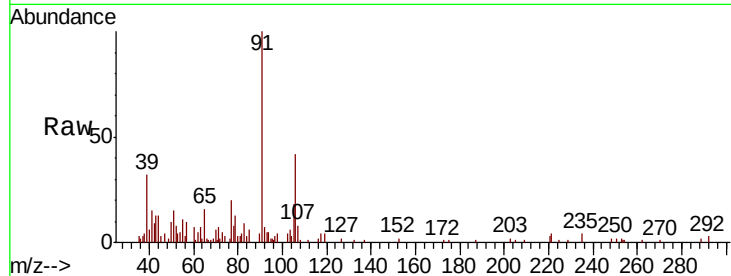




#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.05 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

Instrument :
MSVOA_L
ClientSampled :
NS-1DL

Tot Ion: 91 Resp: 21235
Ion Ratio Lower Upper
91 100
106 76.3 22.0 66.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.298 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.04 min
Lab File: VL036362.D
Acq: 24 Feb 2021 22:40

Tgt Ion: 95 Resp: 2548257
Ion Ratio Lower Upper
95 100
174 68.2 49.8 74.6
175 4.8 3.7 5.5

