

Data File : VL034872.D
Acq On : 10 Mar 2020 18:57
Operator : SY/AP
Sample : L1861-03 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
NS-1DL

Quant Time: Mar 11 05:54:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	887363	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1982257	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1928899	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1580641 10.51 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 105.10%

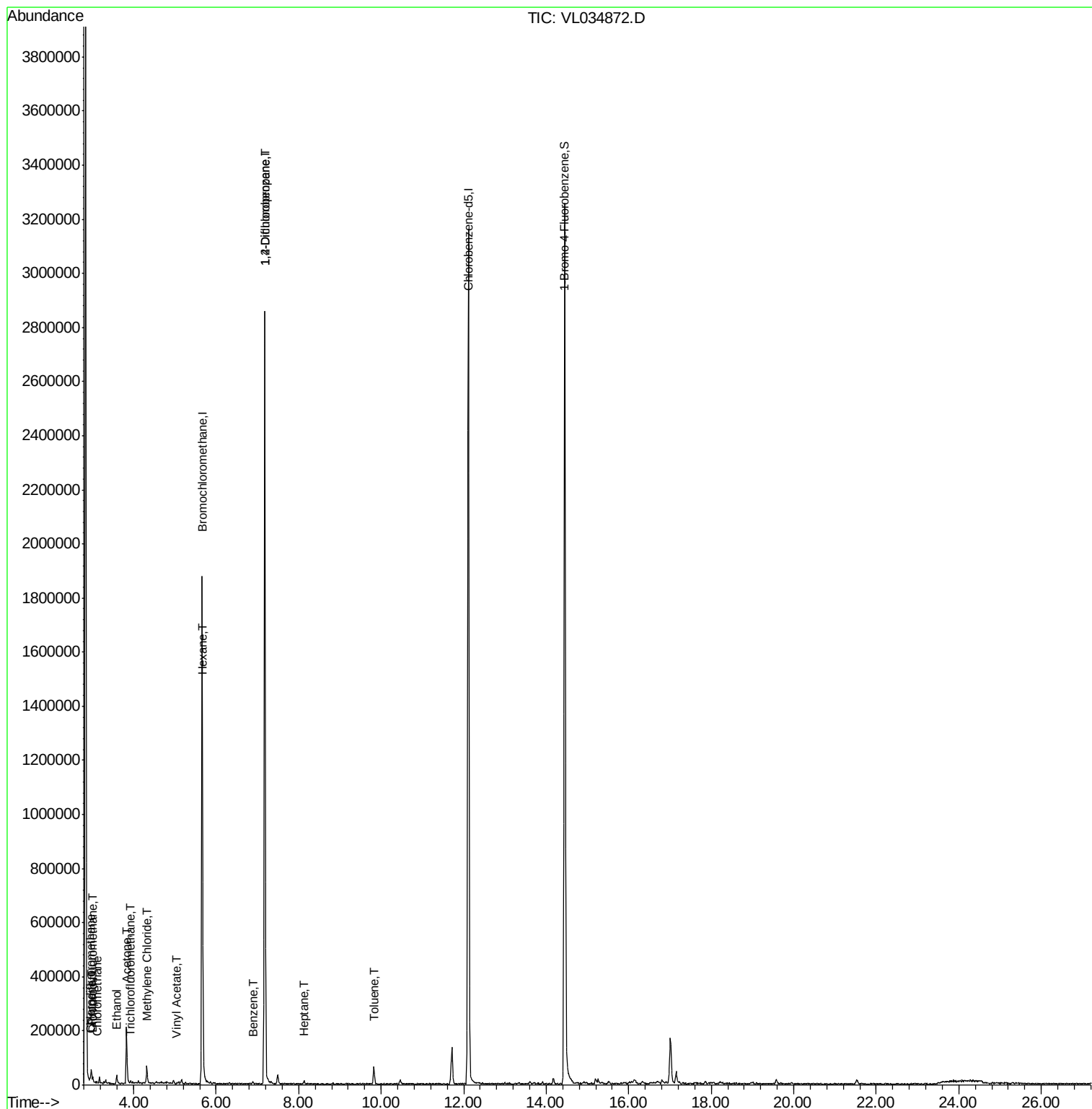
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	9446	0.078	ppbv #	84
3) Chlorodifluoromethane	2.95	51	3999	0.040	ppbv	98
4) Chloromethane	3.10	50	1896	0.034	ppbv #	59
9) Propene	2.97	41	13618	0.288	ppbv	85
10) Heptane	8.13	43	1172	0.010	ppbv #	1
11) Trichlorofluoromethane	3.92	101	2408	0.019	ppbv #	62
13) Ethanol	3.59	45	20104	1.397	ppbv	77
15) Acetone	3.83	43	207188	1.801	ppbv	98
20) Methylene Chloride	4.32	84	8221	0.226	ppbv	90
23) Vinyl Acetate	5.05	43	2301	0.014	ppbv #	76
26) Hexane	5.68	57	3050	0.035	ppbv #	37
36) Benzene	6.89	78	1842	0.010	ppbv #	90
39) 1,2-Dichloropropane	7.18	63	531168	7.588	ppbv #	23
53) Toluene	9.82	91	47756	0.234	ppbv	97

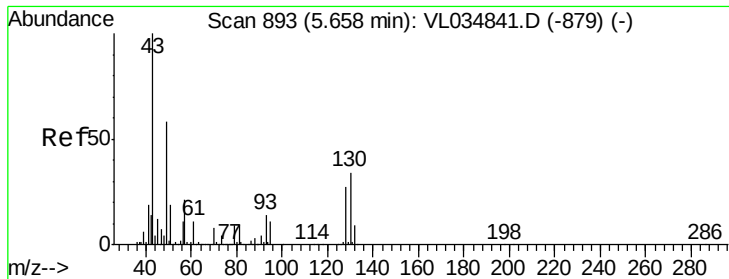
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

NS-1DL

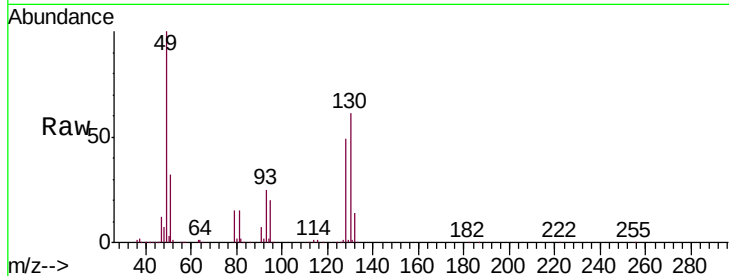
Tgt Ion: 49 Resp: 887363

Ion Ratio Lower Upper

49 100

128 47.4 23.4 70.3

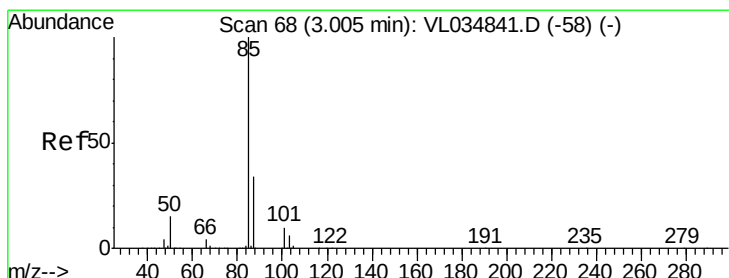
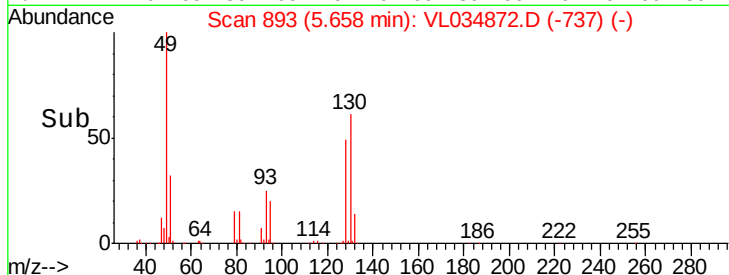
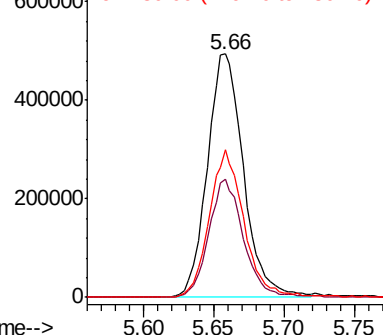
130 59.0 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034872.D

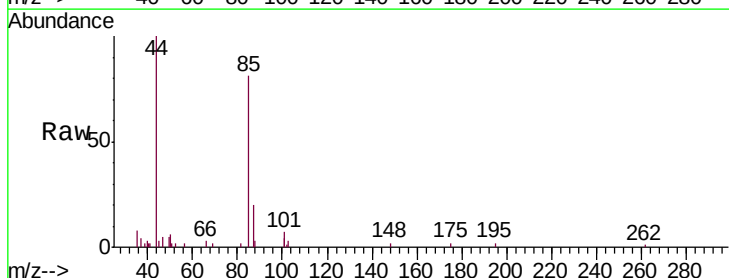
Acq: 10 Mar 2020 18:57

Tgt Ion: 85 Resp: 9446

Ion Ratio Lower Upper

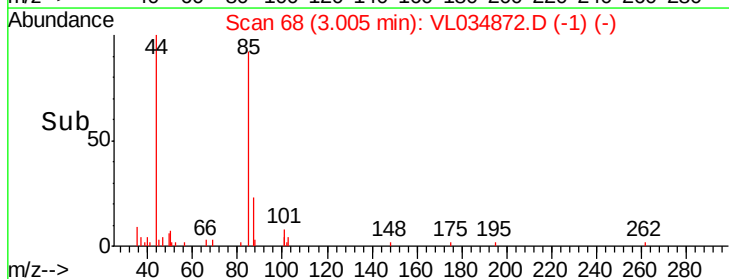
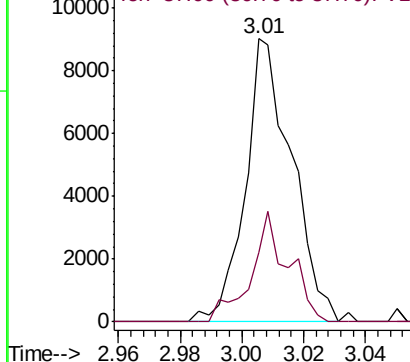
85 100

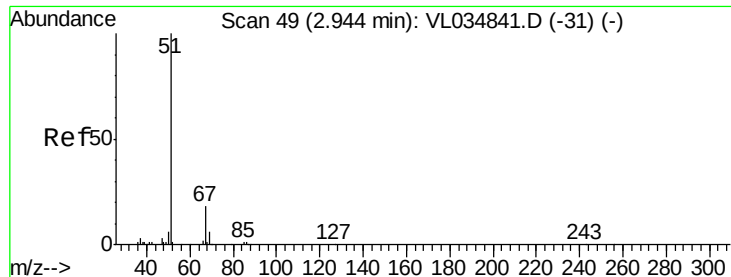
87 24.7 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034872.D

Acq: 10 Mar 2020 18:57

Instrument :

MSVOA_L

ClientSampleId :

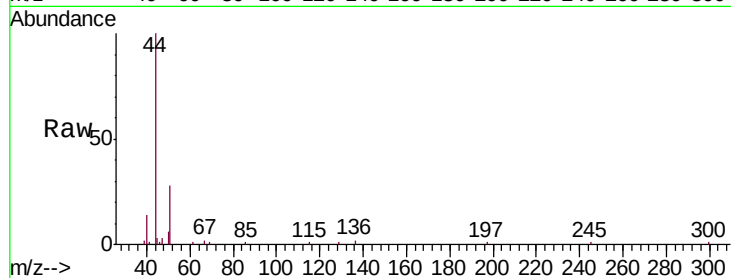
NS-1DL

Tgt Ion: 51 Resp: 3999

Ion Ratio Lower Upper

51 100

67 19.0 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.95

4000

3000

2000

1000

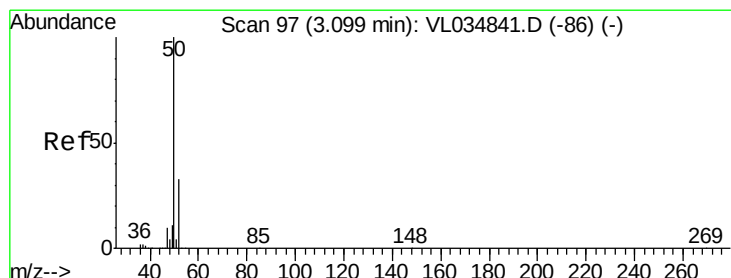
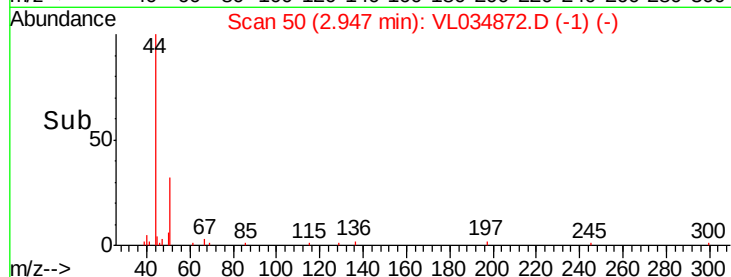
0

2.90

2.95

3.00

Time-->



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034872.D

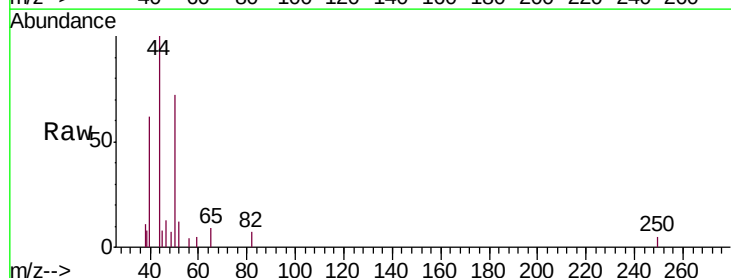
Acq: 10 Mar 2020 18:57

Tgt Ion: 50 Resp: 1896

Ion Ratio Lower Upper

50 100

52 10.4 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

4000

3000

2000

1000

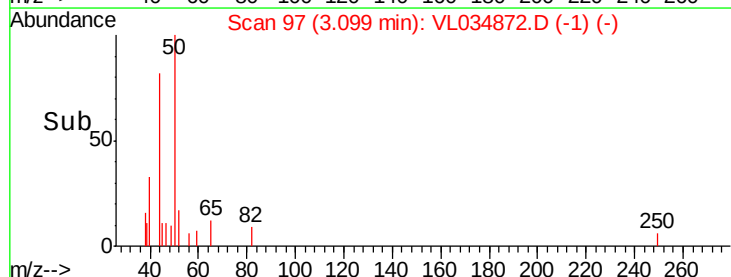
0

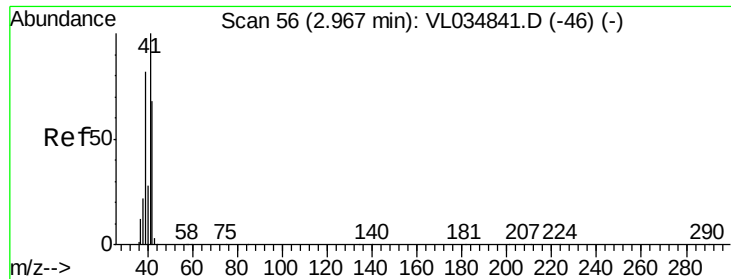
3.08

3.09

3.10

Time-->





#9

Propene

Concen: 0.288 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL034872.D

Acq: 10 Mar 2020 18:57

Instrument :

MSVOA_L

ClientSampleId :

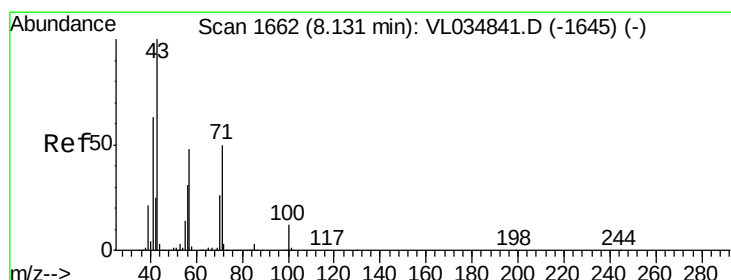
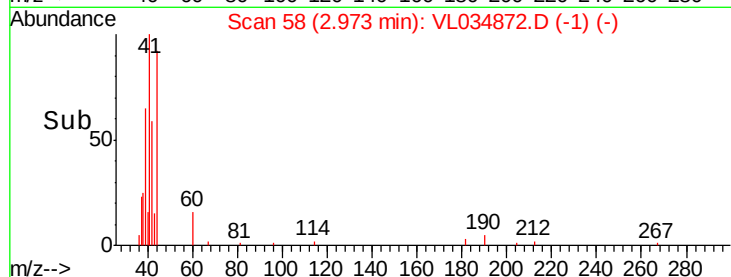
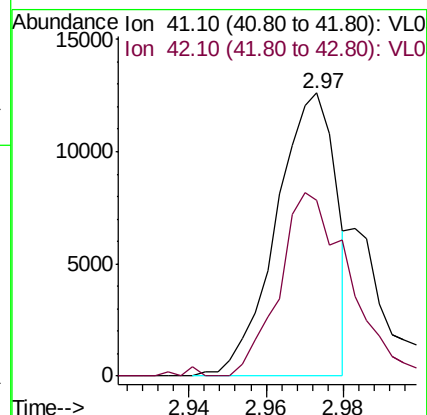
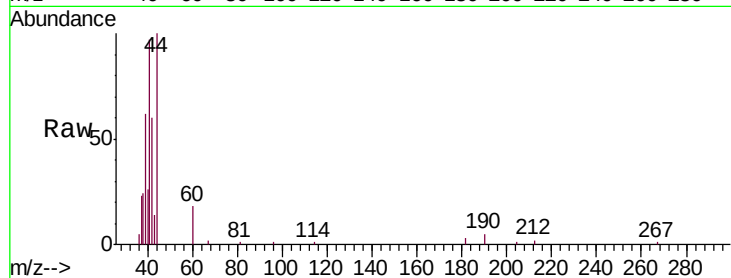
NS-1DL

Tgt Ion: 41 Resp: 13618

Ion Ratio Lower Upper

41 100

42 81.2 55.2 82.8



#10

Heptane

Concen: 0.010 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034872.D

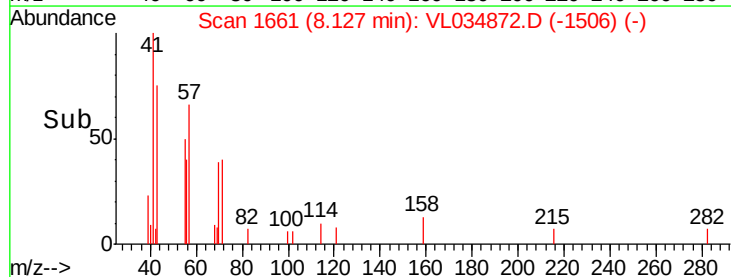
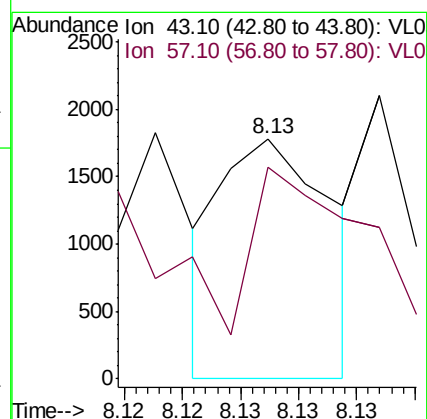
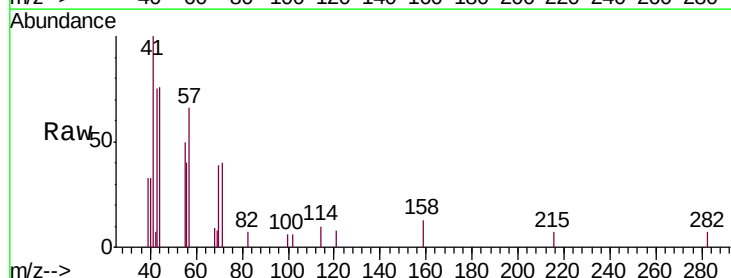
Acq: 10 Mar 2020 18:57

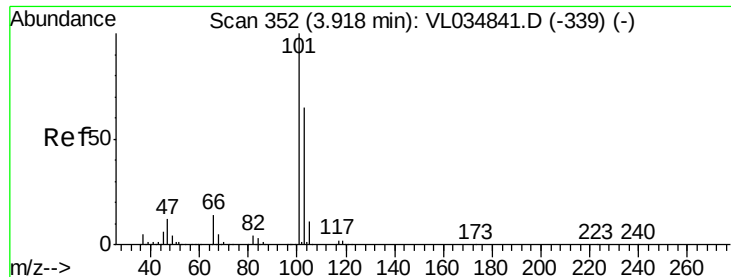
Tgt Ion: 43 Resp: 1172

Ion Ratio Lower Upper

43 100

57 182.3 39.7 59.5#

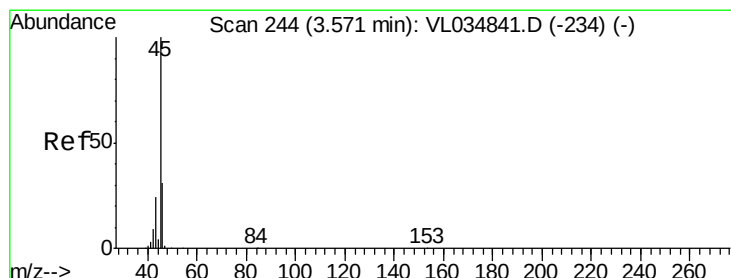
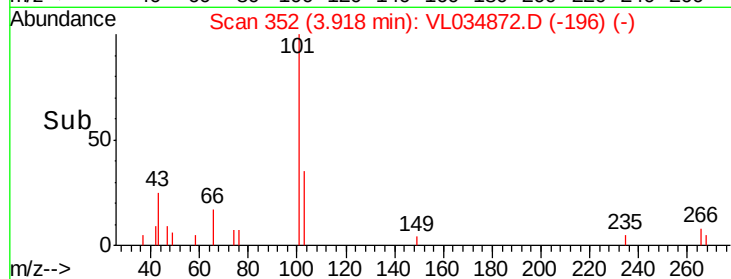
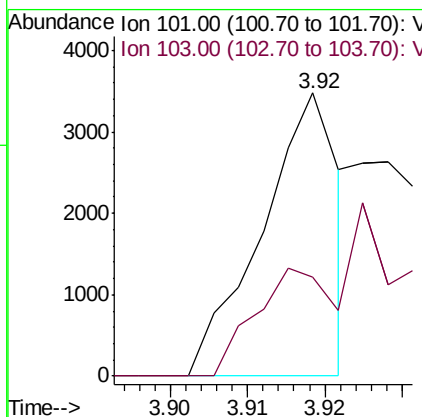
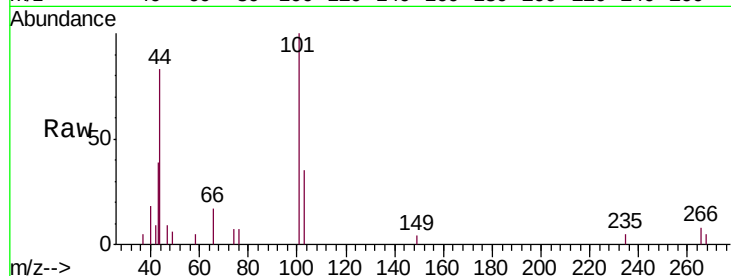




#11
 Trichlorofluoromethane
 Concen: 0.019 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

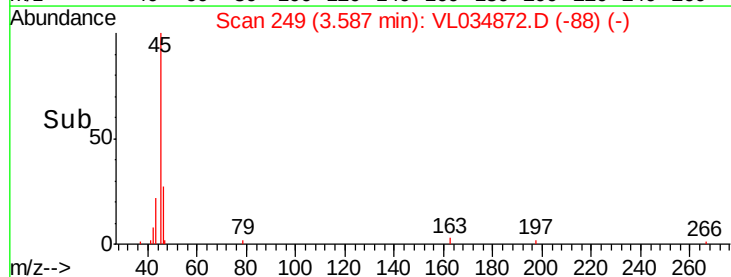
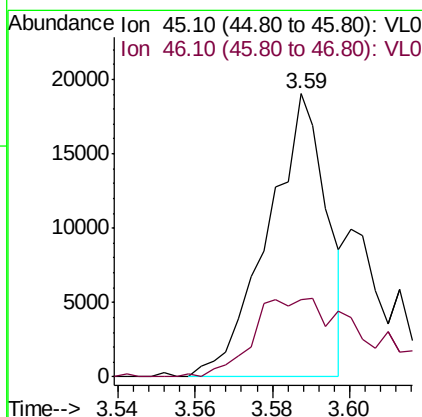
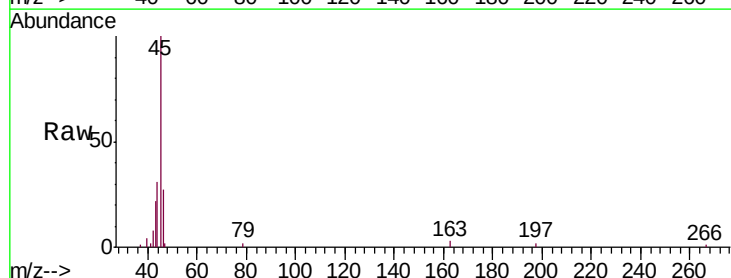
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DL

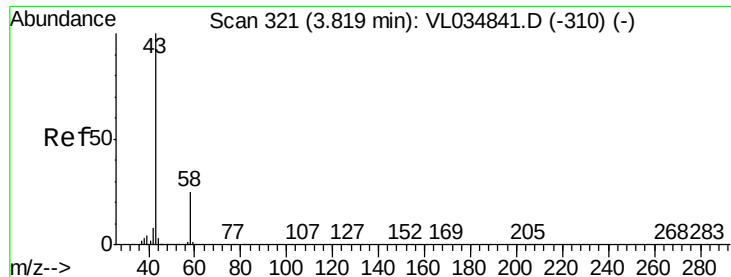
Tgt Ion: 101 Resp: 2408
 Ion Ratio Lower Upper
 101 100
 103 34.8 51.8 77.8#



#13
 Ethanol
 Concen: 1.397 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. 0.02 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

Tgt Ion: 45 Resp: 20104
 Ion Ratio Lower Upper
 45 100
 46 54.1 16.0 64.0





#15

Acetone

Concen: 1.801 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034872.D

Acq: 10 Mar 2020 18:57

Instrument :

MSVOA_L

ClientSampleId :

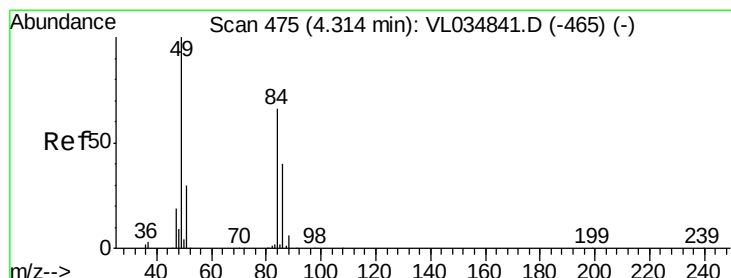
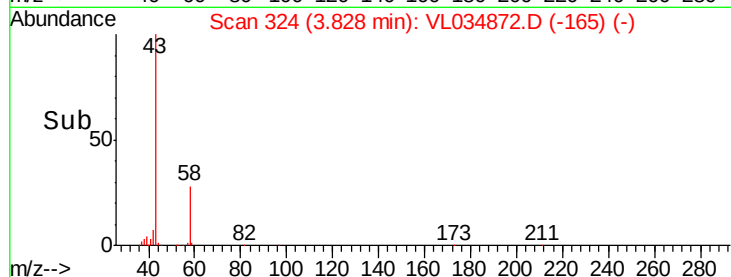
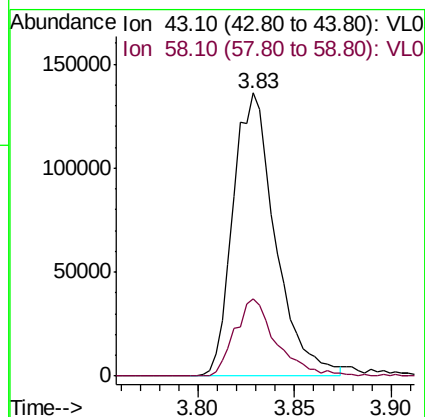
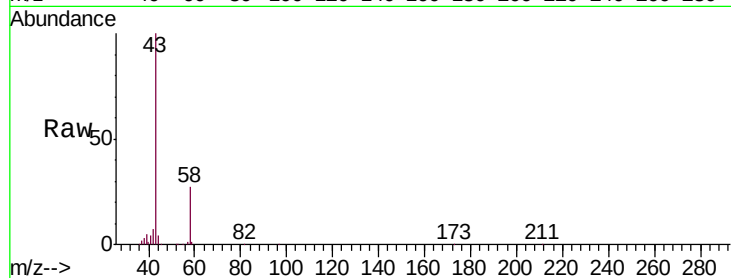
NS-1DL

Tgt Ion: 43 Resp: 207188

Ion Ratio Lower Upper

43 100

58 27.3 21.0 31.6



#20

Methylene Chloride

Concen: 0.226 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034872.D

Acq: 10 Mar 2020 18:57

Tgt Ion: 84 Resp: 8221

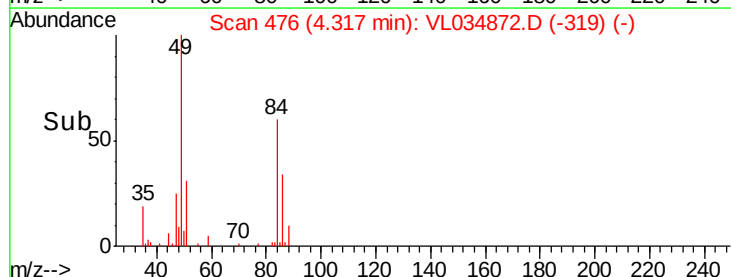
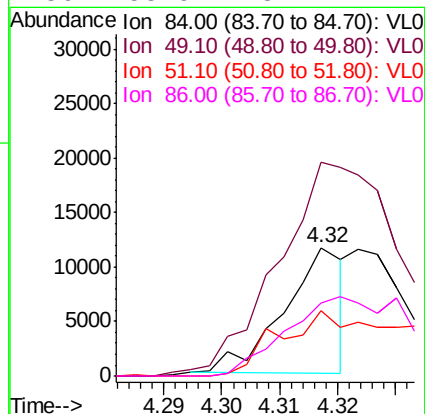
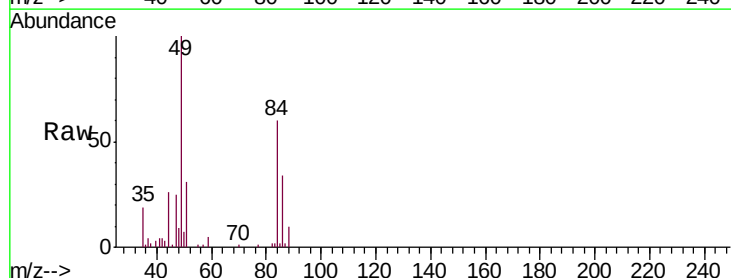
Ion Ratio Lower Upper

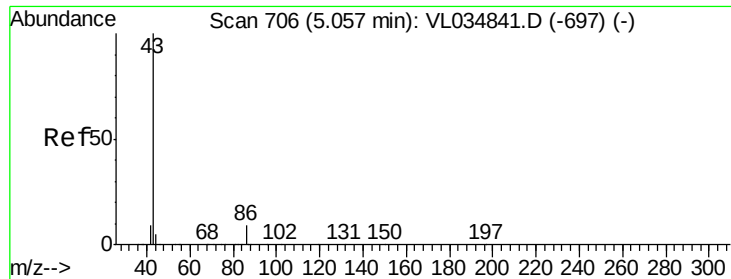
84 100

49 167.8 121.5 182.3

51 53.3 36.6 55.0

86 58.9 48.2 72.2

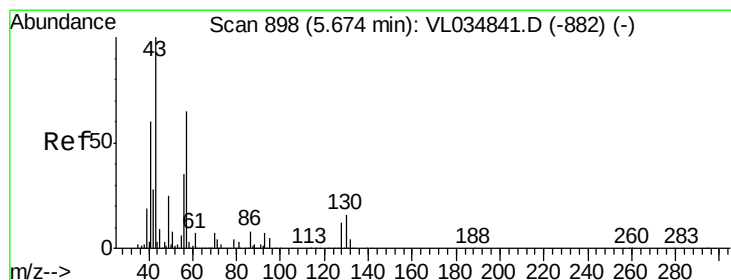
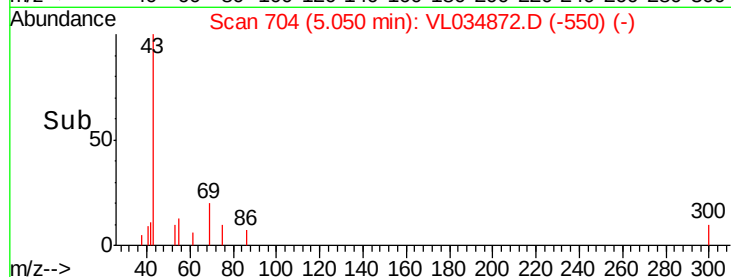
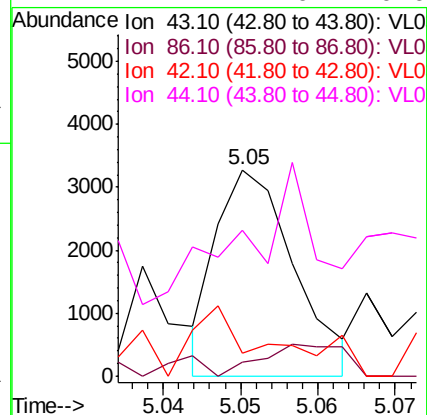
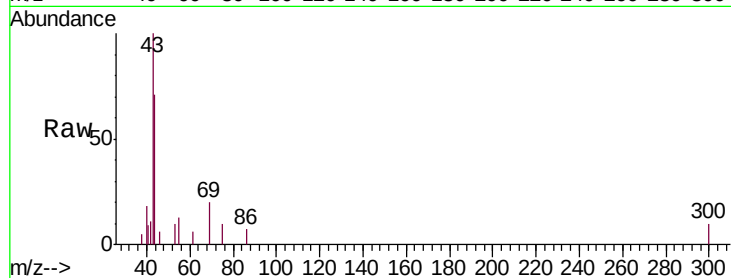




#23
 Vinyl Acetate
 Concen: 0.014 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. -0.01 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

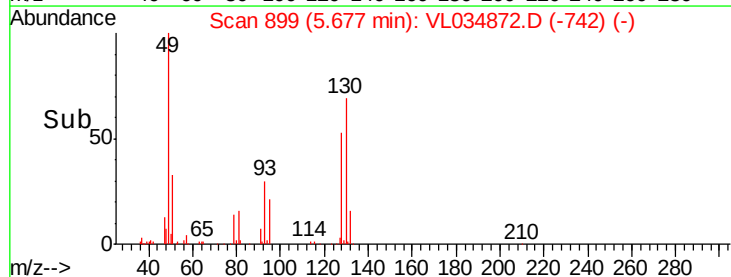
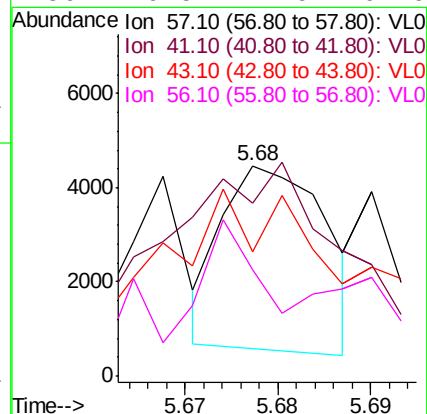
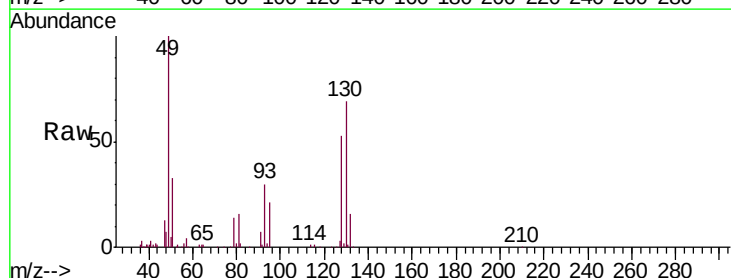
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DL

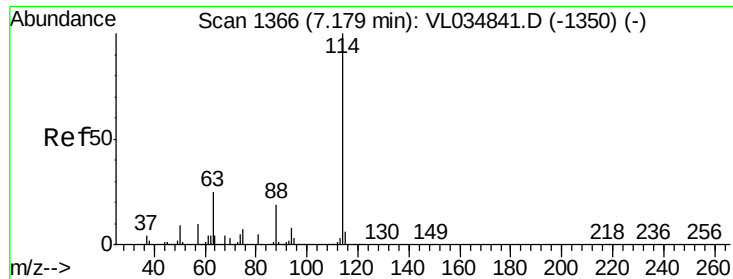
Tgt Ion:	43	Resp:	2301
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.3	9.5#
42	0.0	7.8	11.8#
44	12.1	4.0	6.0#



#26
 Hexane
 Concen: 0.035 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

Tgt Ion:	57	Resp:	3050
Ion	Ratio	Lower	Upper
57	100		
41	241.1	72.6	109.0#
43	210.7	183.8	275.6
56	140.5	41.9	62.9#

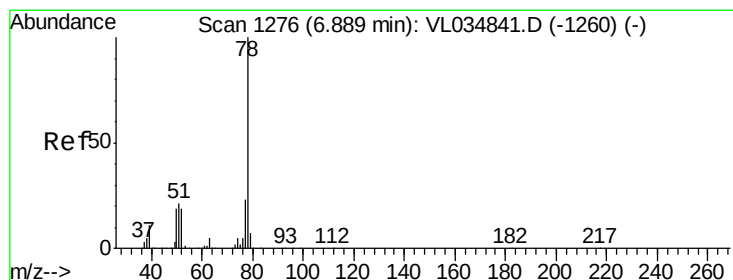
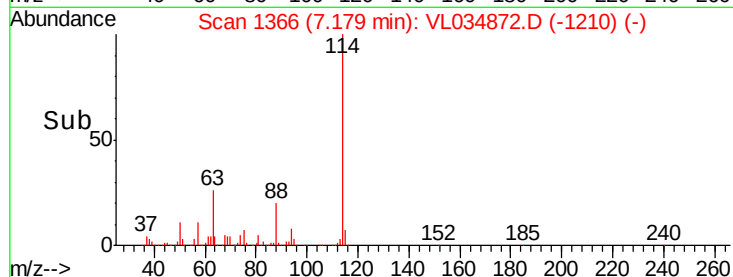
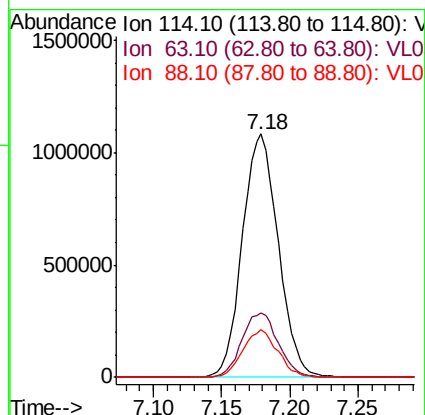
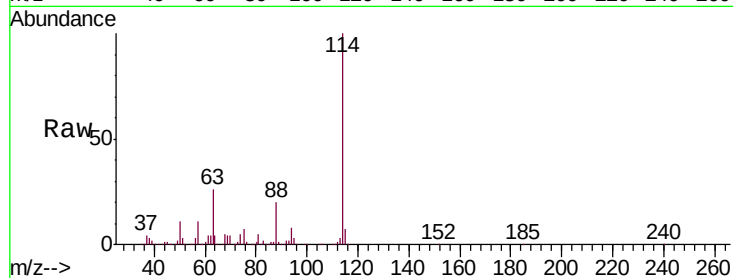




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

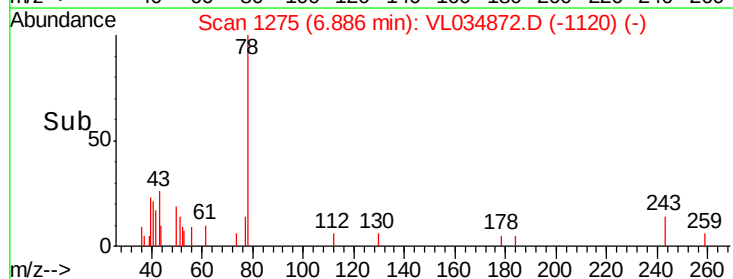
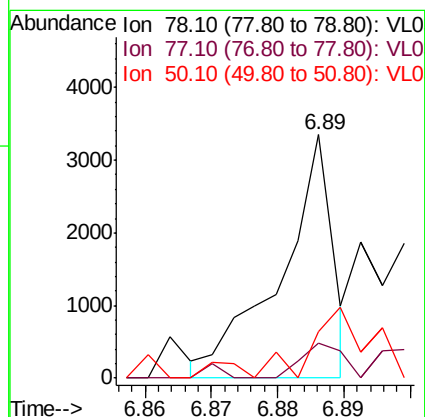
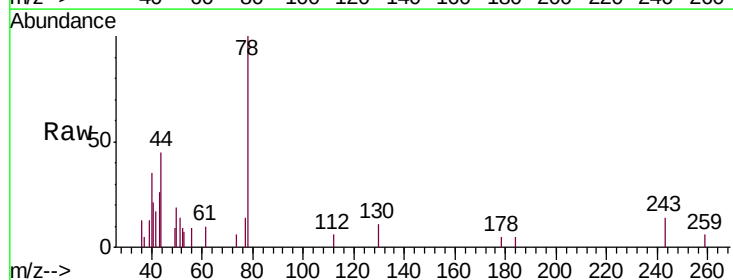
Instrument :
 MSVOA_L
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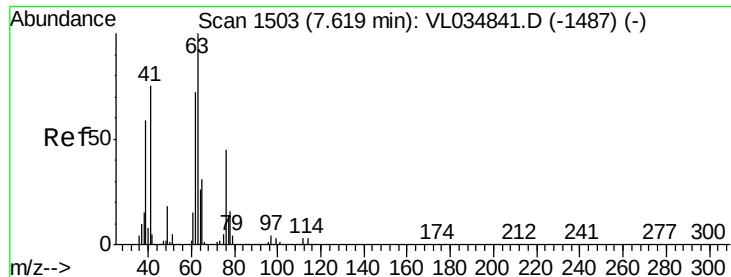
Tgt Ion: 114 Resp: 1982257
 Ion Ratio Lower Upper
 114 100
 63 26.9 20.6 31.0
 88 19.0 15.0 22.6



#36
 Benzene
 Concen: 0.010 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.00 min
 Lab File: VL034872.D
 Acq: 10 Mar 2020 18:57

Tgt Ion: 78 Resp: 1842
 Ion Ratio Lower Upper
 78 100
 77 17.3 18.2 27.2#
 50 22.9 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 7.588 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL034872.D

Acq: 10 Mar 2020 18:57

Instrument :

MSVOA_L

ClientSampleId :

NS-1DL

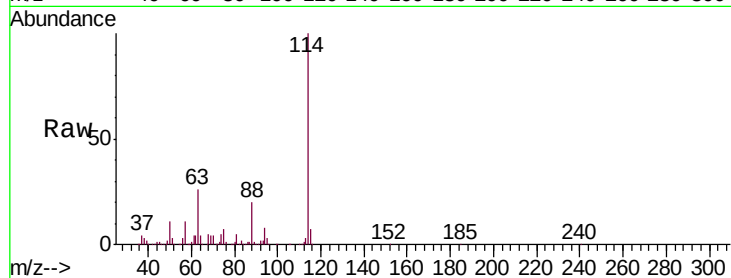
Tgt Ion: 63 Resp: 531168

Ion Ratio Lower Upper

63 100

41 0.1 59.8 89.8#

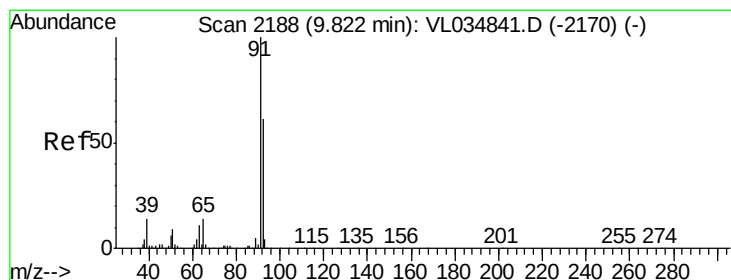
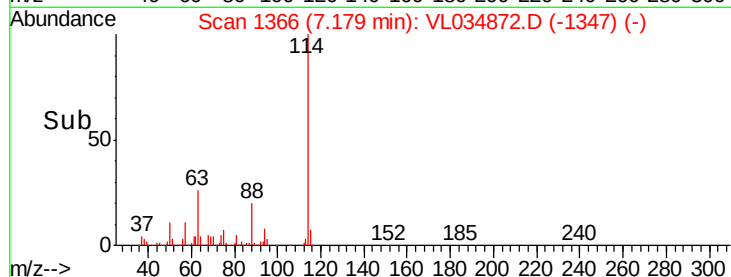
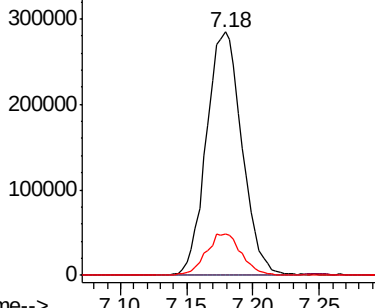
62 16.8 57.6 86.4#



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



#53

Toluene

Concen: 0.234 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL034872.D

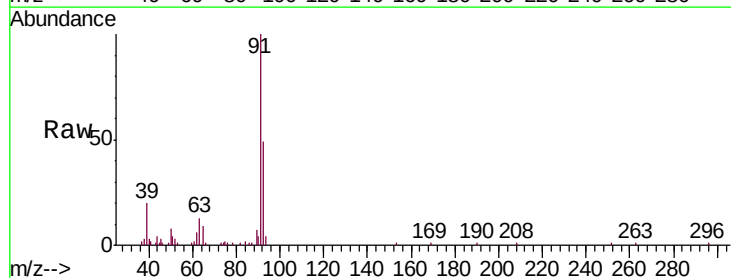
Acq: 10 Mar 2020 18:57

Tgt Ion: 91 Resp: 47756

Ion Ratio Lower Upper

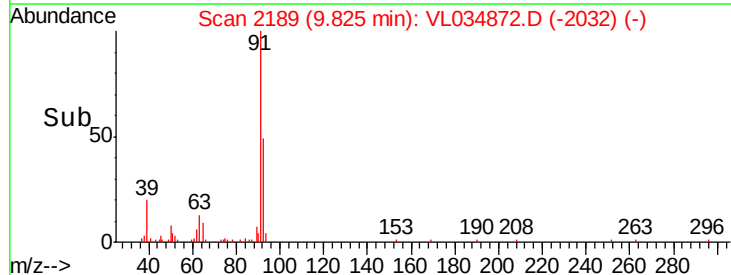
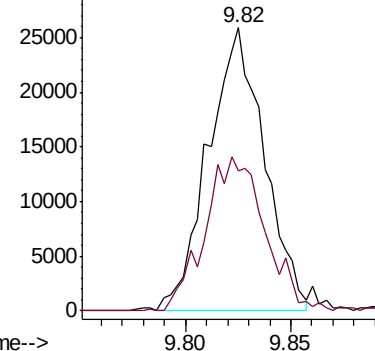
91 100

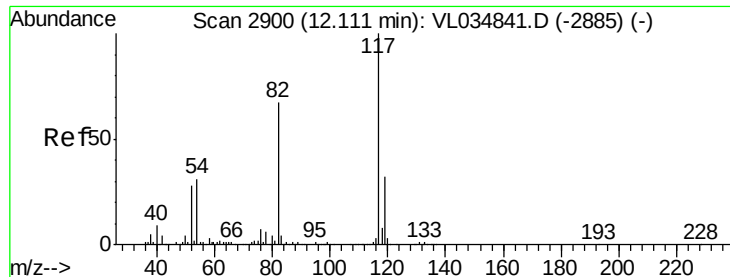
92 58.4 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

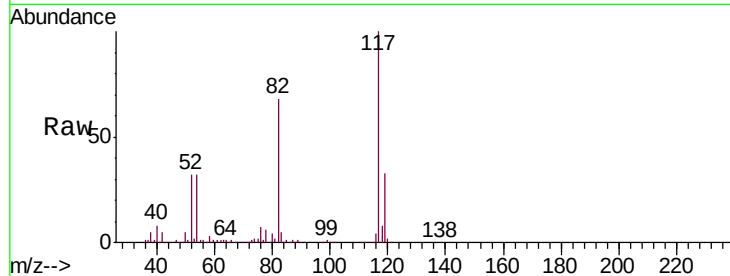




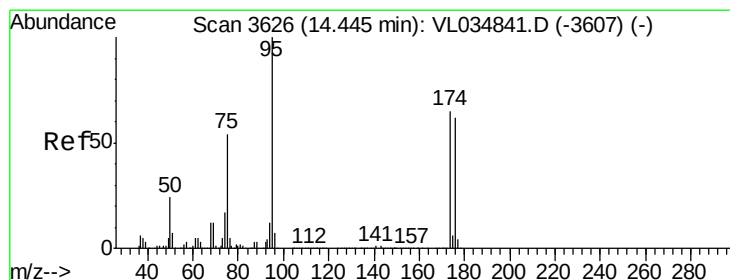
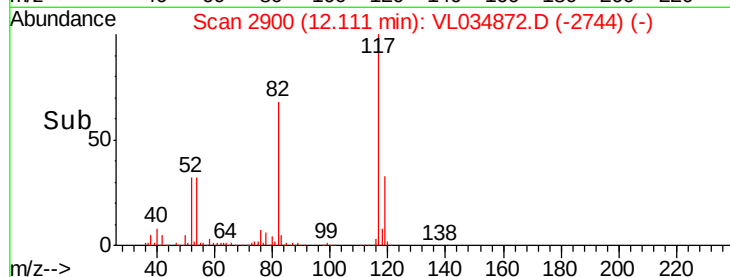
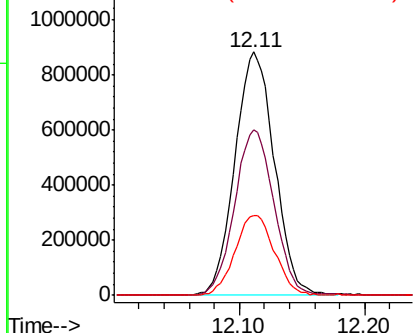
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034872.D
Acq: 10 Mar 2020 18:57

Instrument :
MSVOA_L
ClientSampleId :
NS-1DL

Tgt Ion: 117 Resp: 1928899
Ion Ratio Lower Upper
117 100
82 68.2 51.1 76.7
119 33.0 27.3 40.9

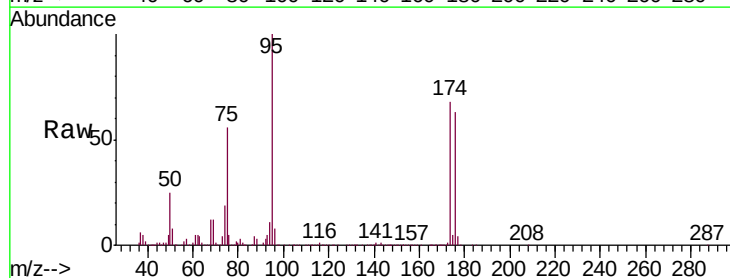


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.507 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.00 min
Lab File: VL034872.D
Acq: 10 Mar 2020 18:57

Tgt Ion: 95 Resp: 1580641
Ion Ratio Lower Upper
95 100
174 66.1 55.2 82.8
175 5.1 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

