

Data File : VL034875.D
Acq On : 10 Mar 2020 20:57
Operator : SY/AP
Sample : L1861-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

Quant Time: Mar 11 05:55:31 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	926455	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2052598	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1991795	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1631453	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

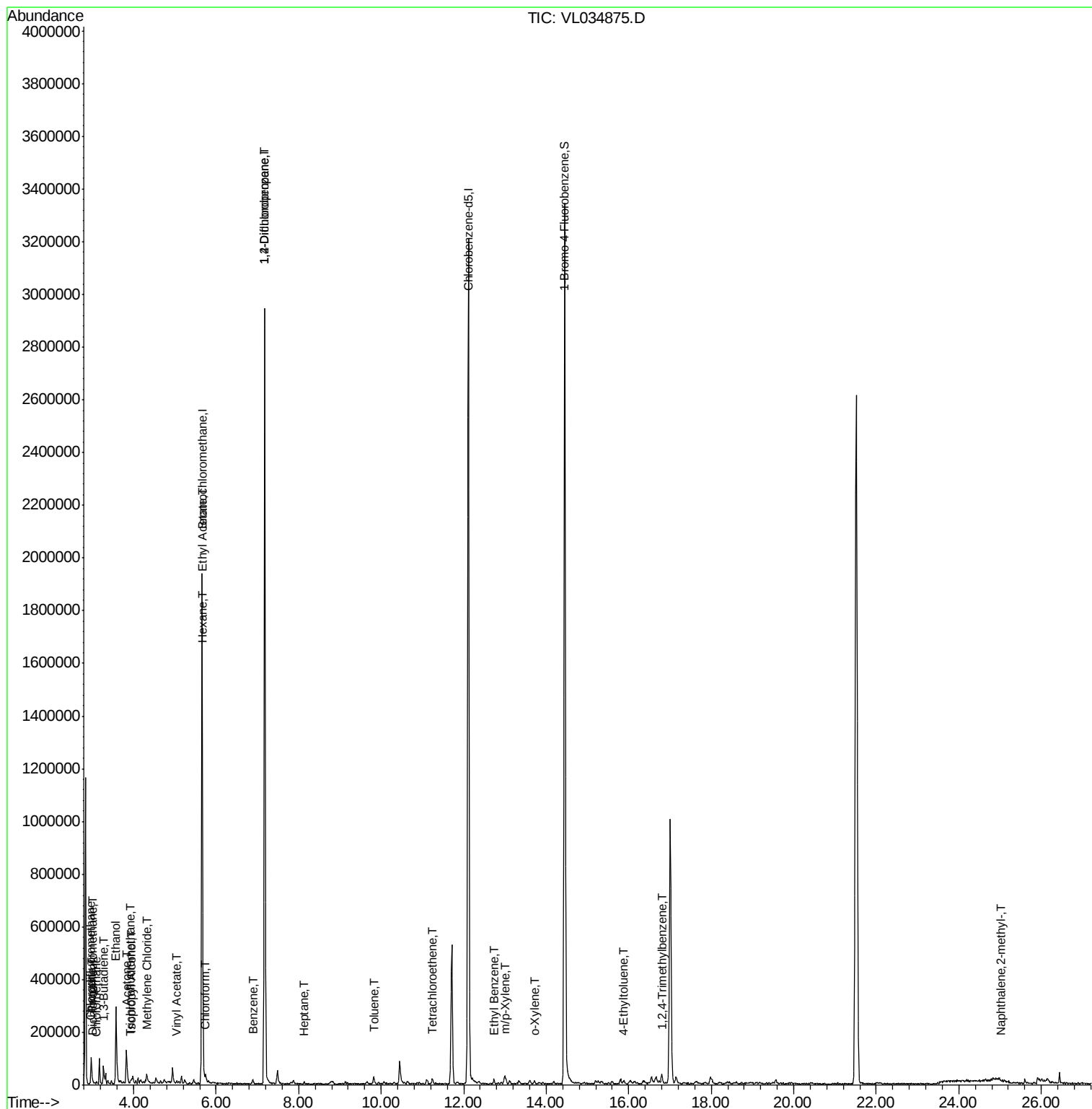
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.01	85	5699	0.045	ppbv #	83
3) Chlorodifluoromethane	2.95	51	3663	0.035	ppbv #	85
4) Chloromethane	3.10	50	2968	0.051	ppbv #	71
9) Propene	2.97	41	19045	0.385	ppbv #	26
10) Heptane	8.13	43	1594	0.013	ppbv #	1
11) Trichlorofluoromethane	3.92	101	2280	0.017	ppbv #	77
13) Ethanol	3.57	45	318731	21.217	ppbv	92
15) Acetone	3.83	43	114098	0.950	ppbv #	71
16) 1,3-Butadiene	3.27	39	25239	0.465	ppbv #	45
19) Isopropyl Alcohol	3.95	45	8026	0.106	ppbv #	37
20) Methylene Chloride	4.32	84	7478	0.197	ppbv	83
23) Vinyl Acetate	5.05	43	5450	0.031	ppbv #	61
25) Ethyl Acetate	5.67	43	4176	0.020	ppbv #	80
26) Hexane	5.67	57	1653	0.018	ppbv #	1
29) Chloroform	5.74	83	9258	0.066	ppbv	90
36) Benzene	6.89	78	3450	0.019	ppbv #	73
39) 1,2-Dichloropropane	7.18	63	547909	7.559	ppbv #	23
52) Tetrachloroethene	11.24	164	887	0.012	ppbv #	21
53) Toluene	9.82	91	12189	0.058	ppbv #	55
58) Ethyl Benzene	12.75	91	2884	0.011	ppbv	90
59) m/p-Xylene	13.02	91	8224	0.036	ppbv #	30
60) o-Xylene	13.73	91	2991	0.014	ppbv #	31
72) 4-Ethyltoluene	15.88	105	2743	0.011	ppbv #	41
74) 1,2,4-Trimethylbenzene	16.81	105	6979	0.028	ppbv #	59
80) Naphthalene,2-methyl-	25.03	142	659	0.013	ppbv #	89

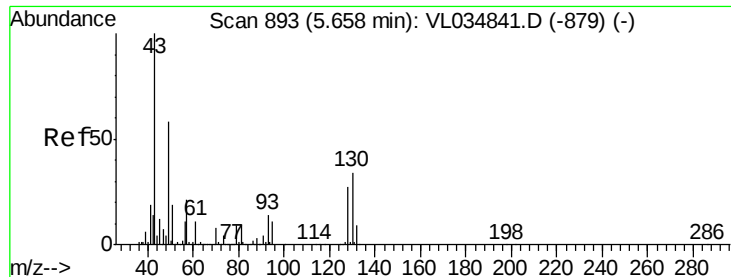
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL034875.D
Acq On : 10 Mar 2020 20:57
Operator : SY/AP
Sample : L1861-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

Quant Time: Mar 11 05:55:31 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

NS-2DL

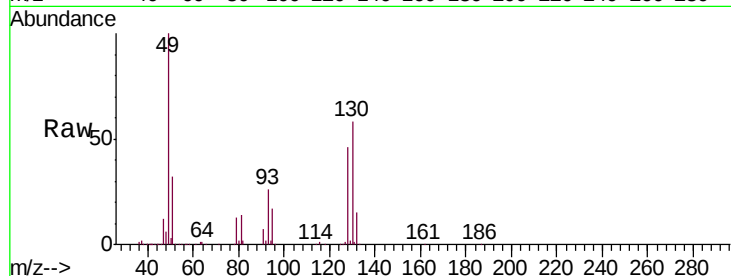
Tgt Ion: 49 Resp: 926455

Ion Ratio Lower Upper

49 100

128 46.6 23.4 70.3

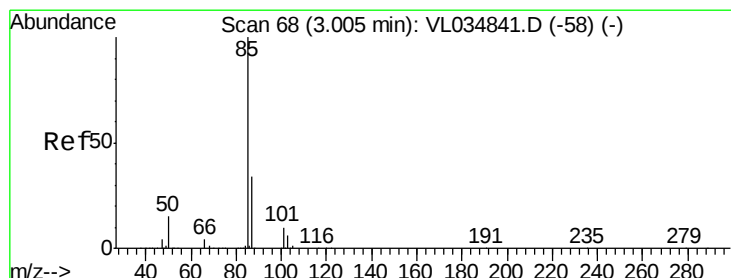
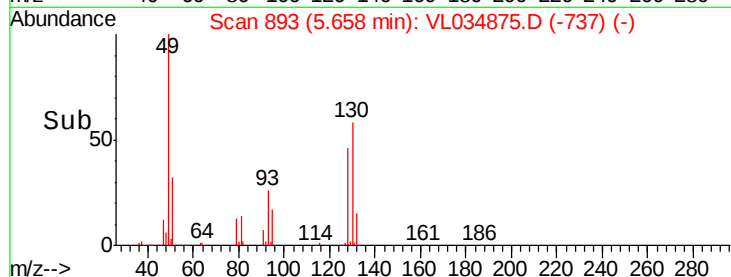
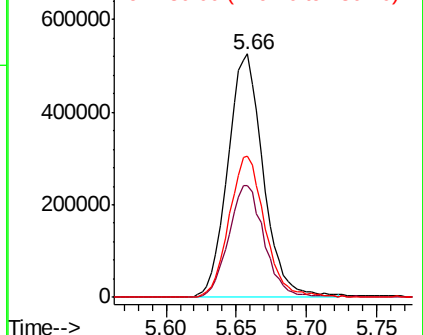
130 58.7 30.0 90.0



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: 0.045 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034875.D

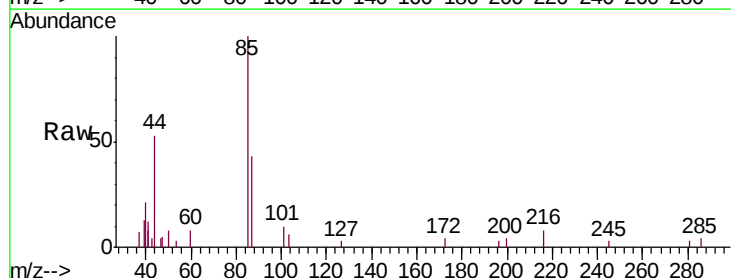
Acq: 10 Mar 2020 20:57

Tgt Ion: 85 Resp: 5699

Ion Ratio Lower Upper

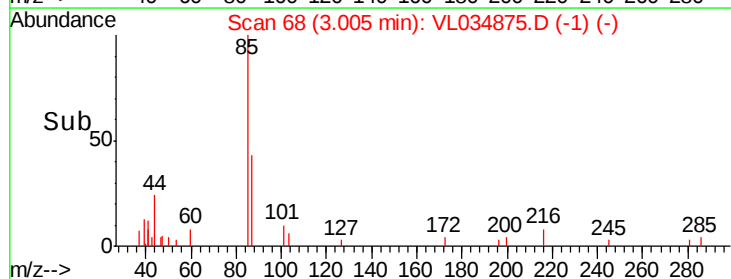
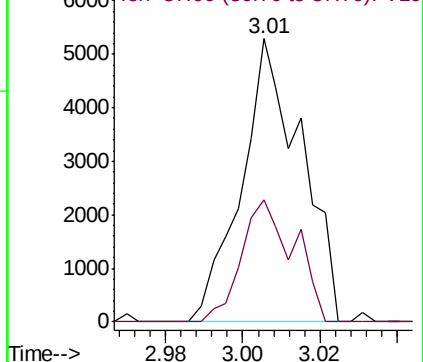
85 100

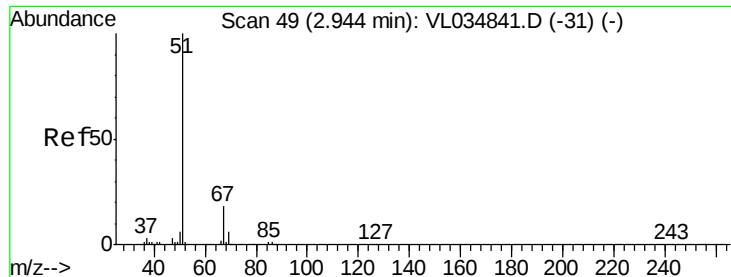
87 43.2 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

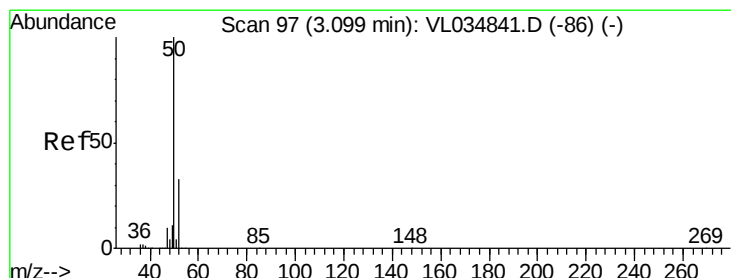
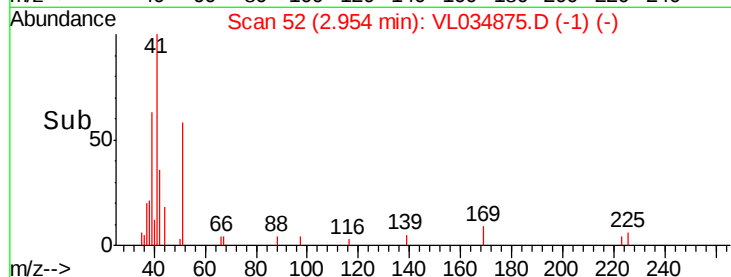
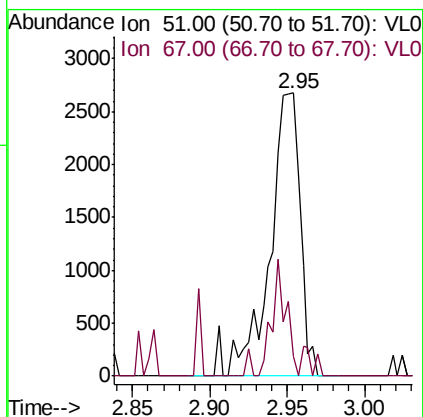
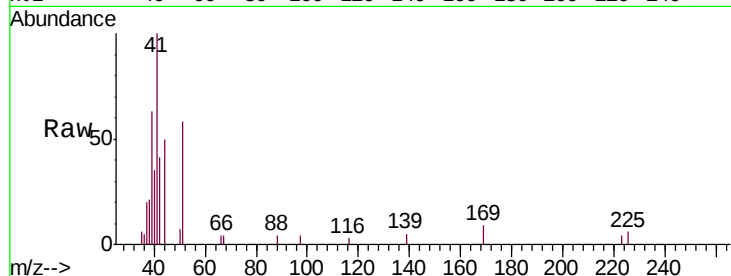




#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 2.95 min Scan# 52
Delta R.T. 0.01 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

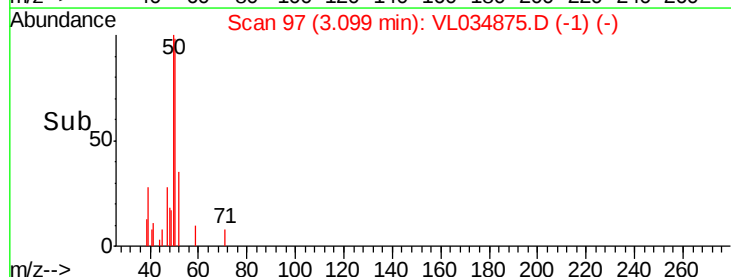
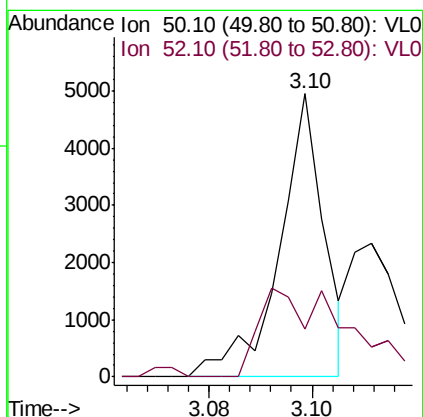
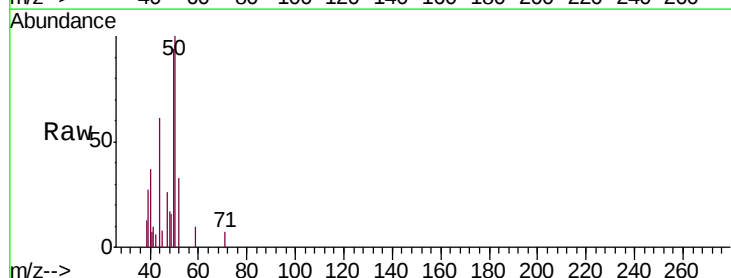
Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

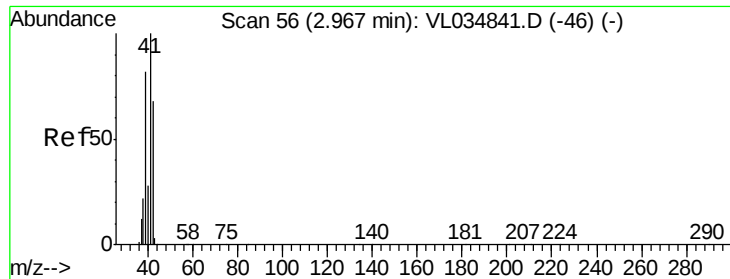
Tgt Ion: 51 Resp: 3663
Ion Ratio Lower Upper
51 100
67 24.4 14.3 21.5#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 3.10 min Scan# 97
Delta R.T. 0.00 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

Tgt Ion: 50 Resp: 2968
Ion Ratio Lower Upper
50 100
52 17.0 26.8 40.2#





#9

Propene

Concen: 0.385 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

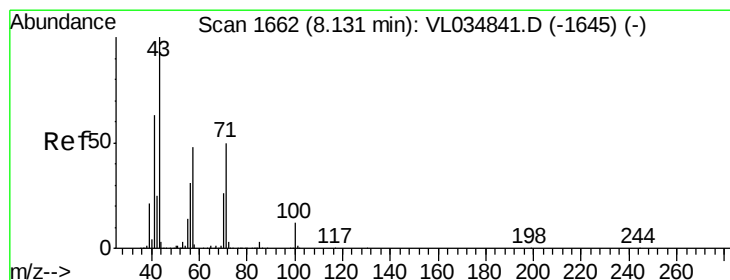
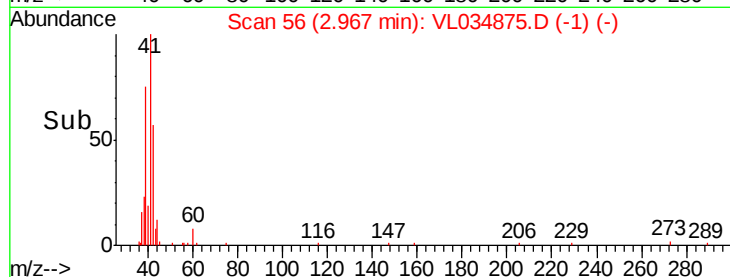
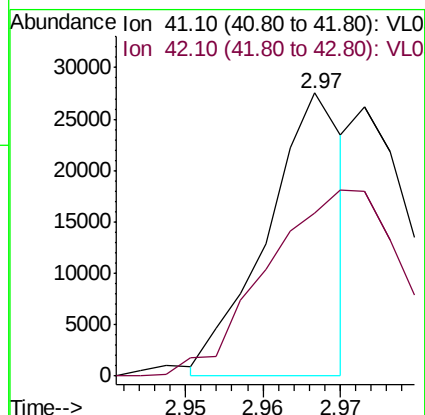
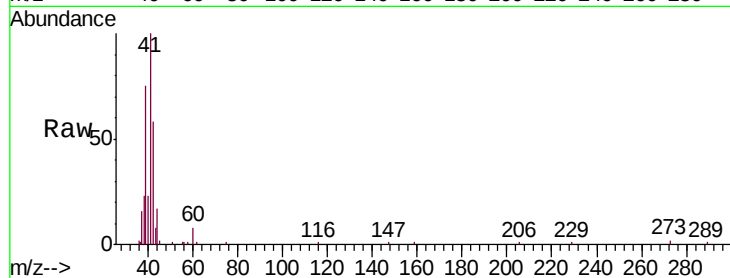
NS-2DL

Tgt Ion: 41 Resp: 19045

Ion Ratio Lower Upper

41 100

42 129.2 55.2 82.8#



#10

Heptane

Concen: 0.013 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034875.D

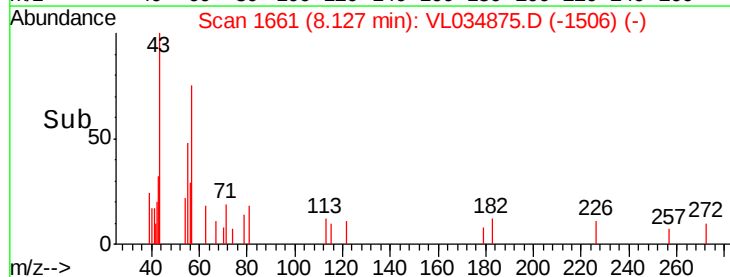
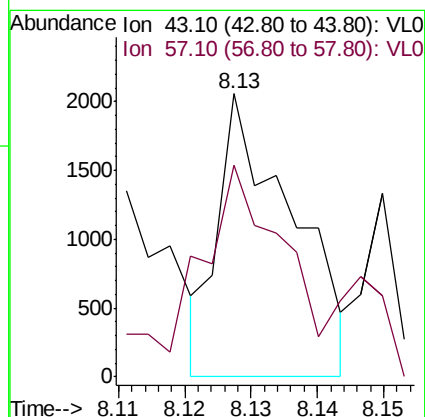
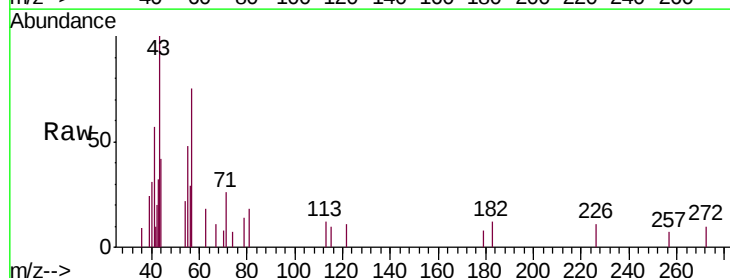
Acq: 10 Mar 2020 20:57

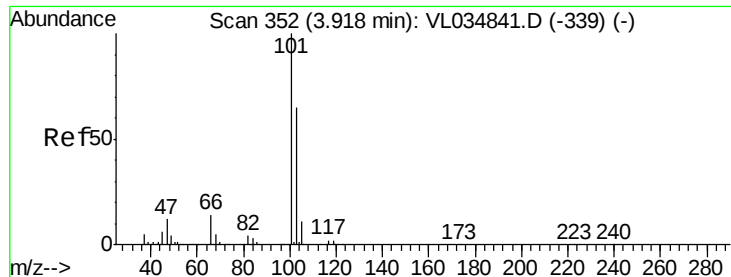
Tgt Ion: 43 Resp: 1594

Ion Ratio Lower Upper

43 100

57 119.8 39.7 59.5#

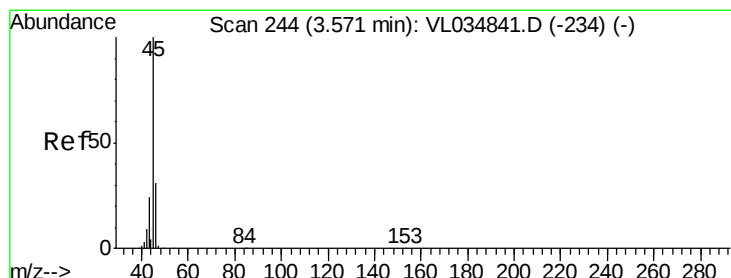
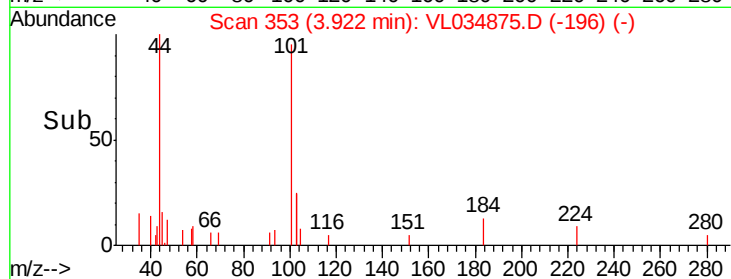
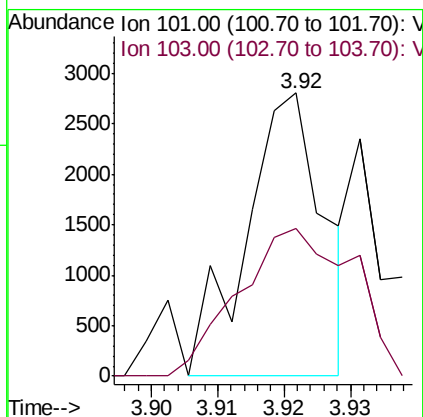
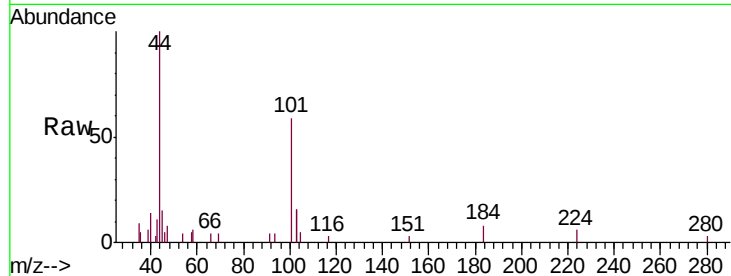




#11
 Trichlorofluoromethane
 Concen: 0.017 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

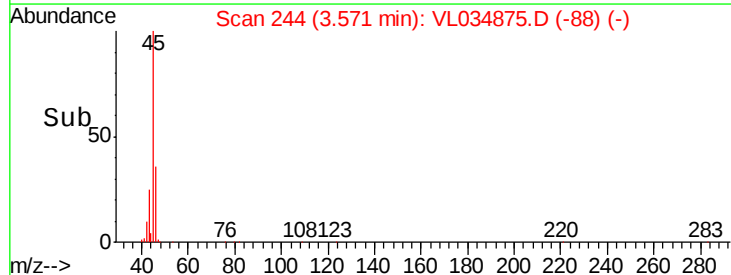
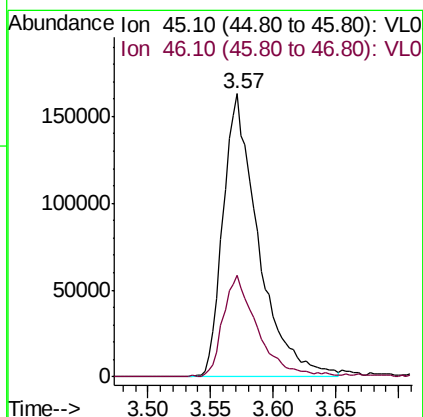
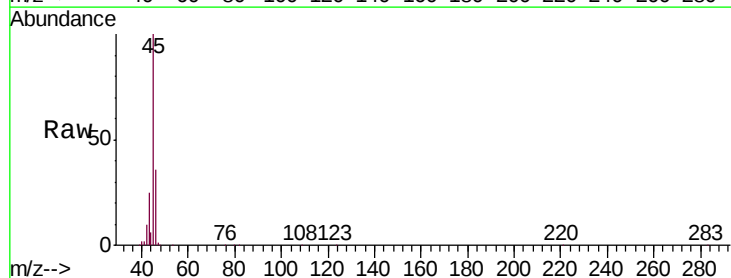
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2DL

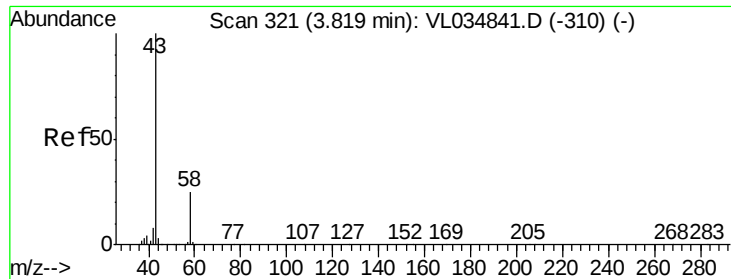
Tgt Ion: 101 Resp: 2280
 Ion Ratio Lower Upper
 101 100
 103 46.8 51.8 77.8#



#13
 Ethanol
 Concen: 21.217 ppbv
 RT: 3.57 min Scan# 244
 Delta R.T. 0.00 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

Tgt Ion: 45 Resp: 318731
 Ion Ratio Lower Upper
 45 100
 46 35.1 16.0 64.0

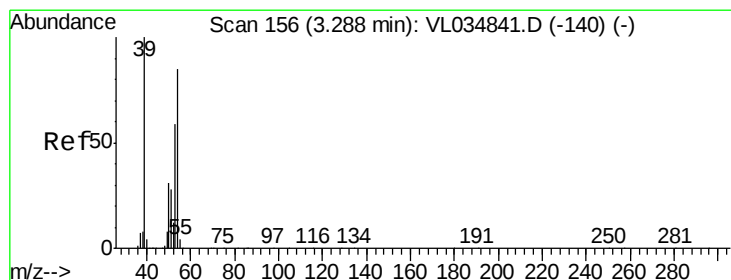
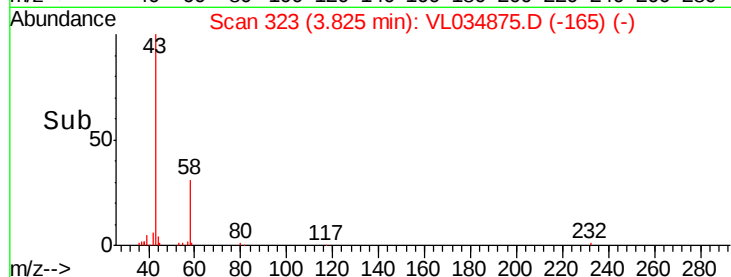
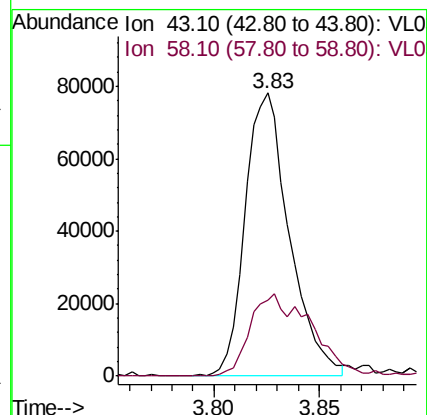
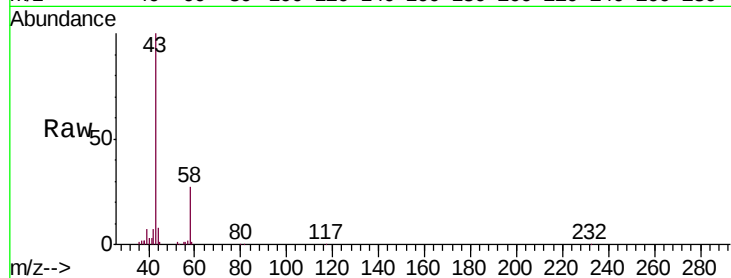




#15
Acetone
Concen: 0.950 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

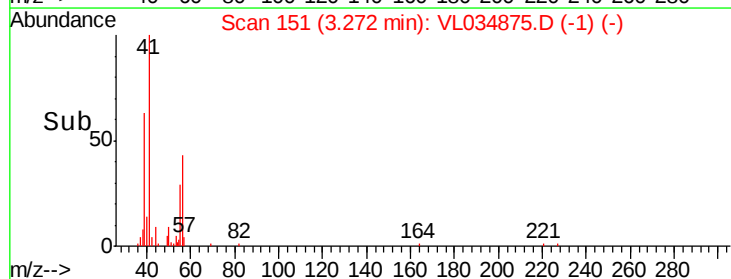
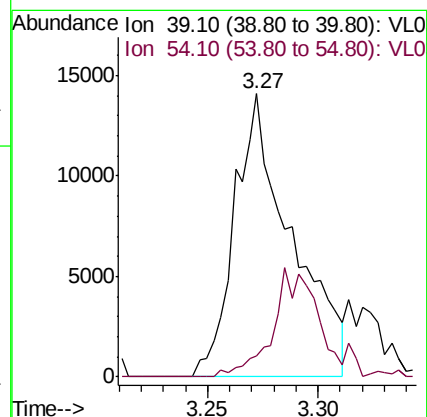
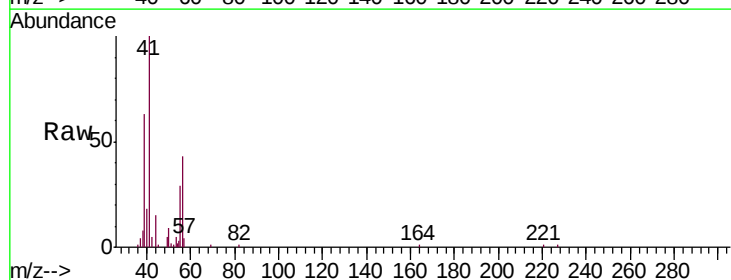
Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

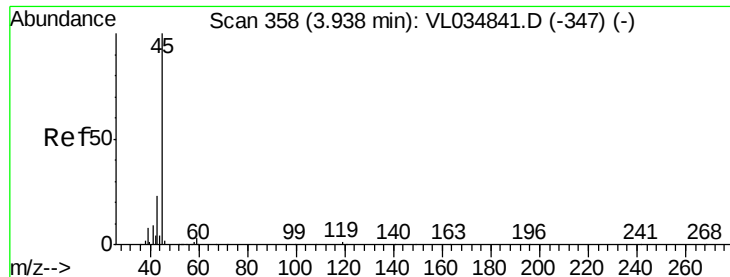
Tgt Ion: 43 Resp: 114098
Ion Ratio Lower Upper
43 100
58 41.1 21.0 31.6#



#16
1,3-Butadiene
Concen: 0.465 ppbv
RT: 3.27 min Scan# 151
Delta R.T. -0.02 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

Tgt Ion: 39 Resp: 25239
Ion Ratio Lower Upper
39 100
54 32.3 65.0 97.6#





#19

Isopropyl Alcohol

Concen: 0.106 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

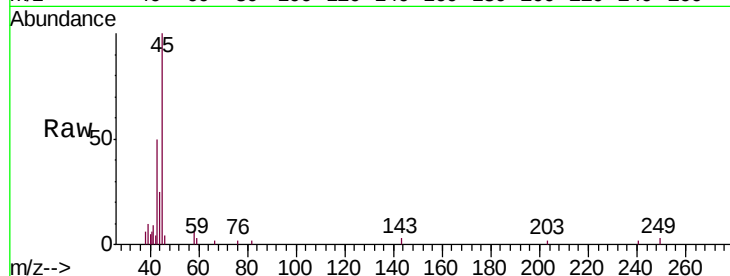
NS-2DL

Tgt Ion: 45 Resp: 8026

Ion Ratio Lower Upper

45 100

58 0.0 30.5 45.7#

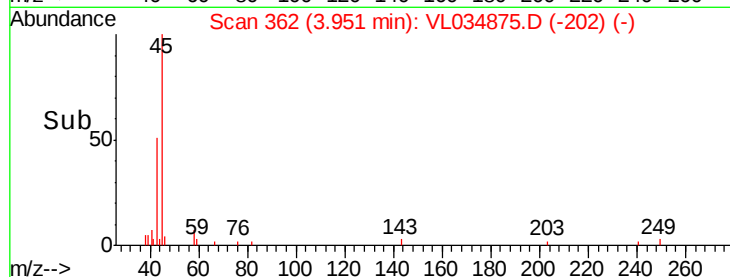


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

Time-->



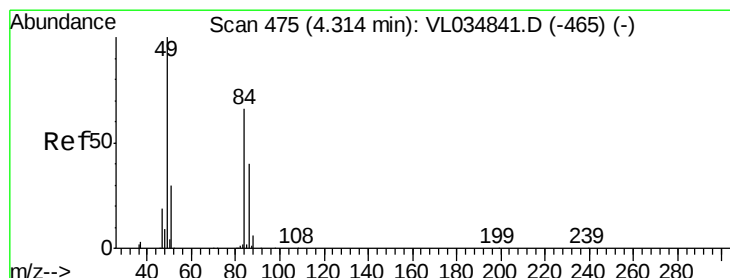
Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

Time-->



#20

Methylene Chloride

Concen: 0.197 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Tgt Ion: 84 Resp: 7478

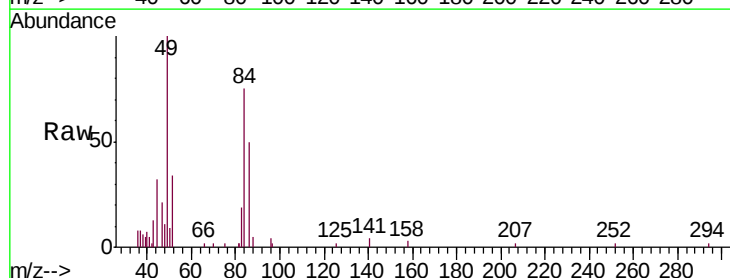
Ion Ratio Lower Upper

84 100

49 124.3 121.5 182.3

51 36.9 36.6 55.0

86 67.3 48.2 72.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

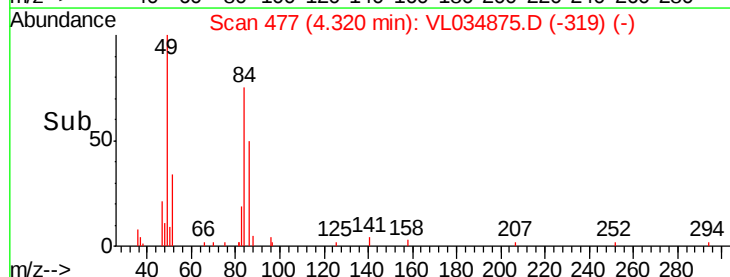
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.32

Time-->



Abundance

Ion 84.00 (83.70 to 84.70): VL0

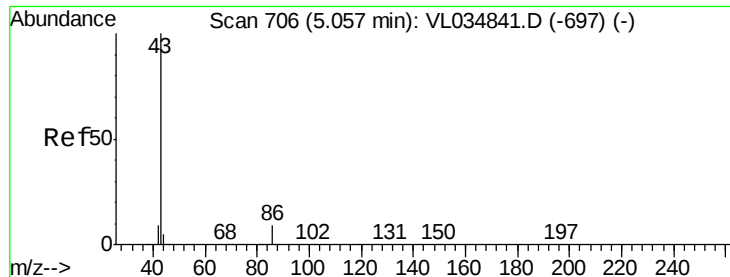
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.32

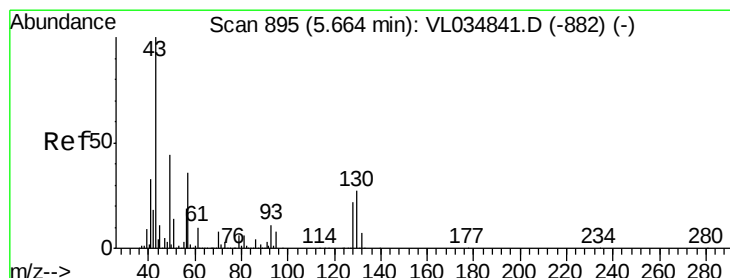
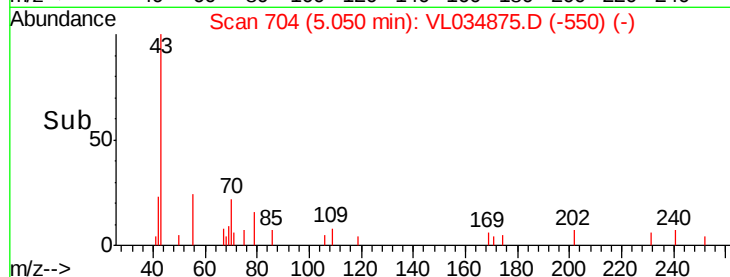
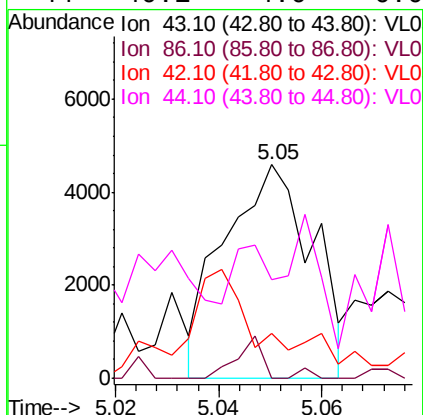
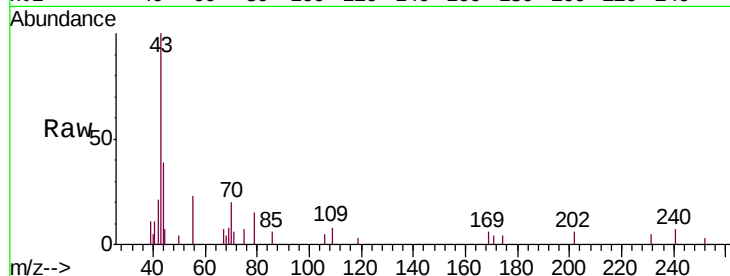
Time-->



#23
 Vinyl Acetate
 Concen: 0.031 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. -0.01 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

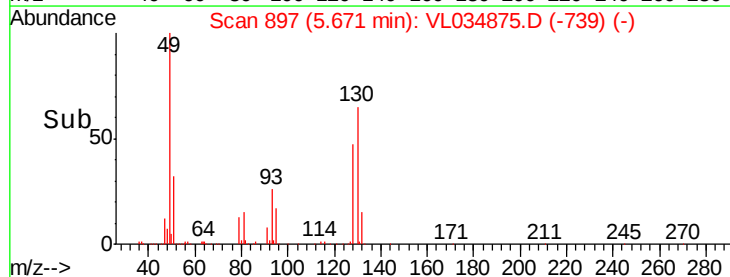
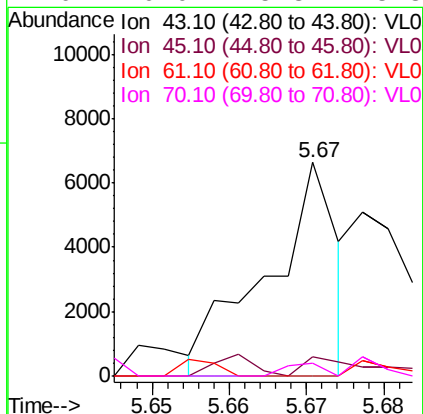
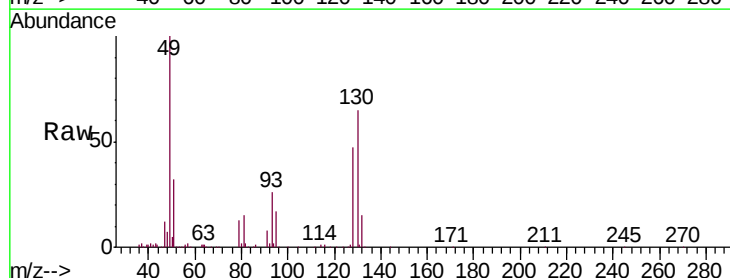
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2DL

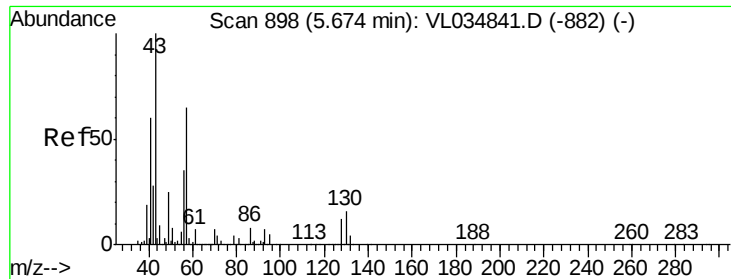
Tgt Ion:	43	Resp:	5450
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.3	9.5#
42	2.7	7.8	11.8#
44	40.1	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.020 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

Tgt Ion:	43	Resp:	4176
Ion	Ratio	Lower	Upper
43	100		
45	18.9	8.2	12.2#
61	4.1	7.8	11.6#
70	0.0	5.8	8.8#

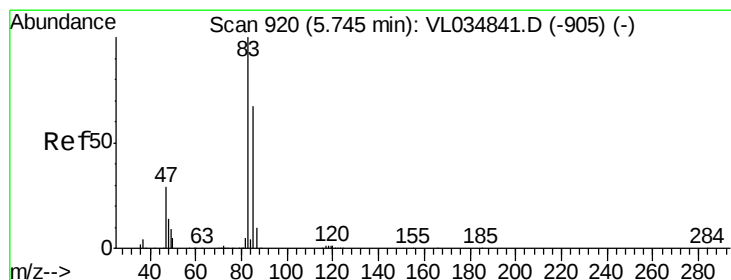
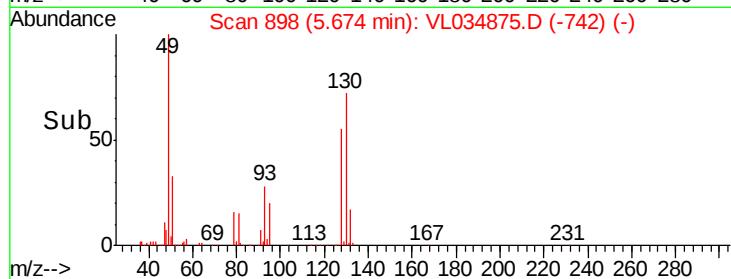
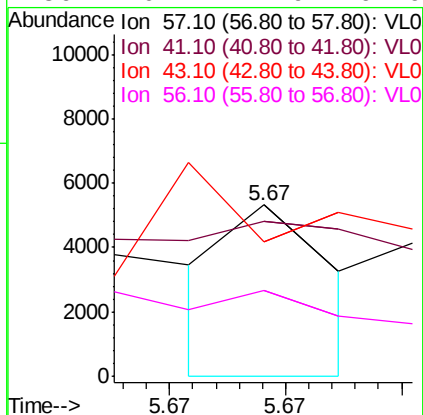
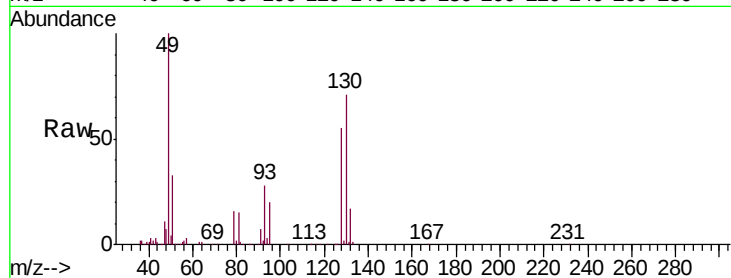




#26
Hexane
Concen: 0.018 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

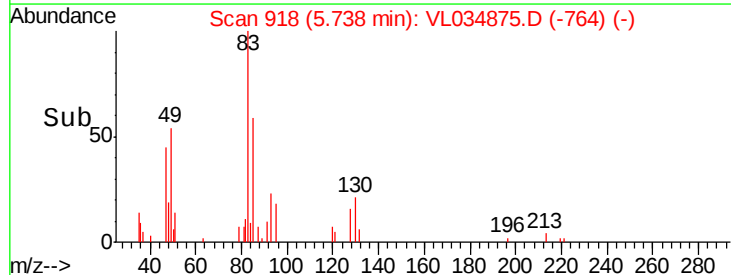
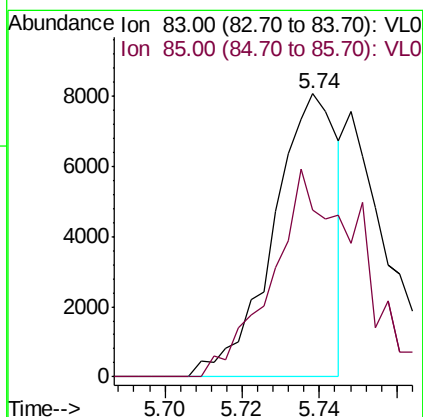
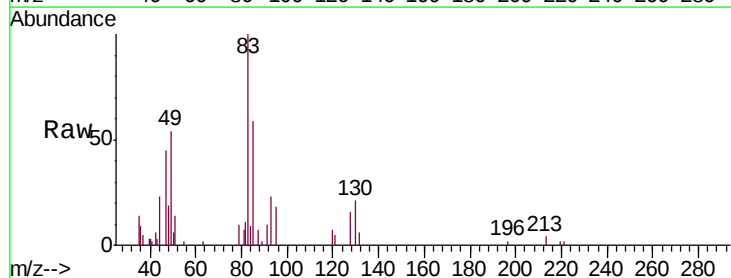
Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

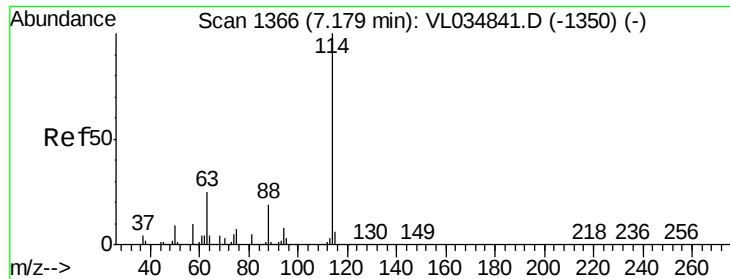
Tgt Ion: 57 Resp: 1653
Ion Ratio Lower Upper
57 100
41 0.0 72.6 109.0#
43 549.4 183.8 275.6#
56 270.1 41.9 62.9#



#29
Chloroform
Concen: 0.066 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

Tgt Ion: 83 Resp: 9258
Ion Ratio Lower Upper
83 100
85 59.0 53.8 80.6

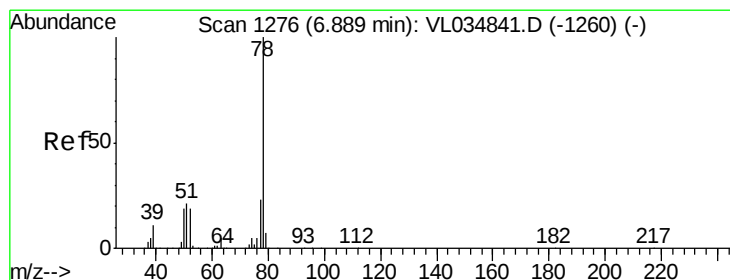
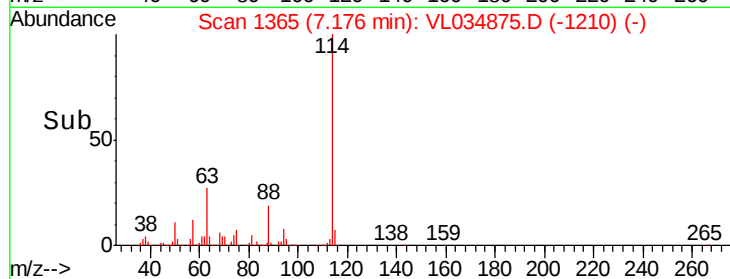
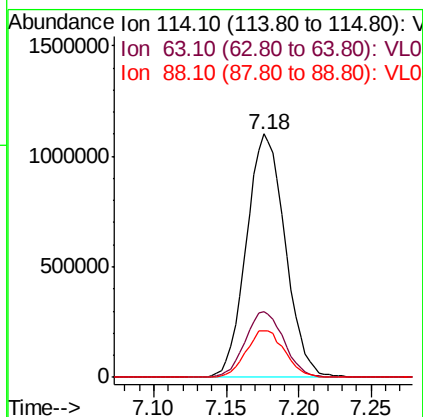
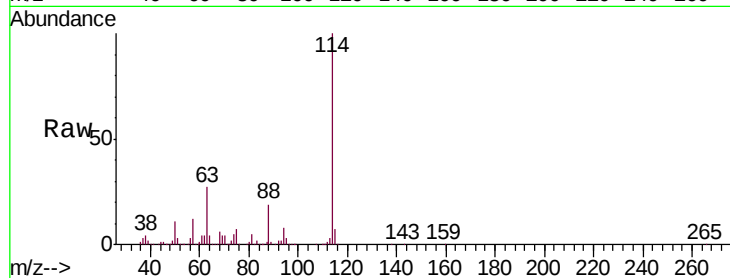




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

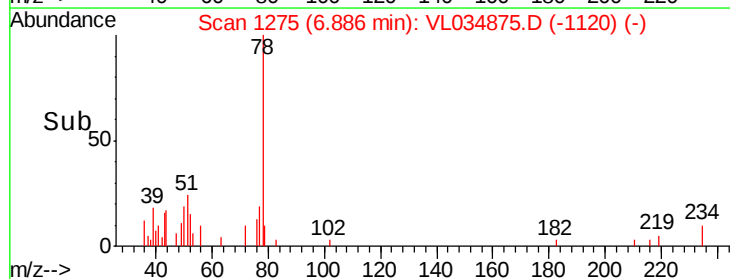
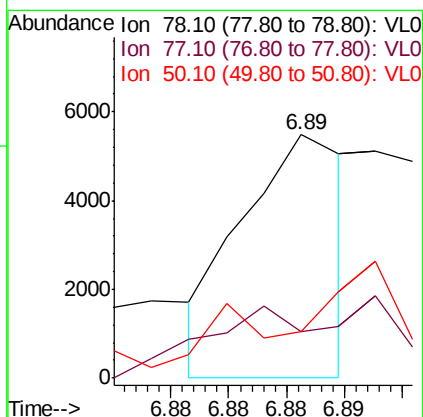
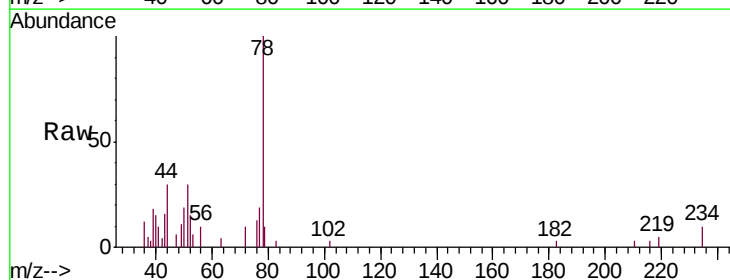
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2DL

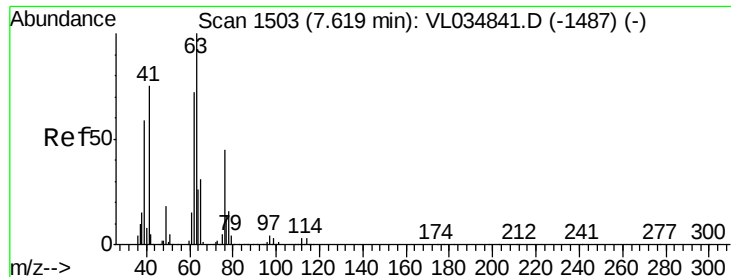
Tgt Ion: 114 Resp: 2052598
 Ion Ratio Lower Upper
 114 100
 63 27.1 20.6 31.0
 88 19.2 15.0 22.6



#36
 Benzene
 Concen: 0.019 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.00 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

Tgt Ion: 78 Resp: 3450
 Ion Ratio Lower Upper
 78 100
 77 3.9 18.2 27.2#
 50 13.2 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 7.559 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampled :

NS-2DL

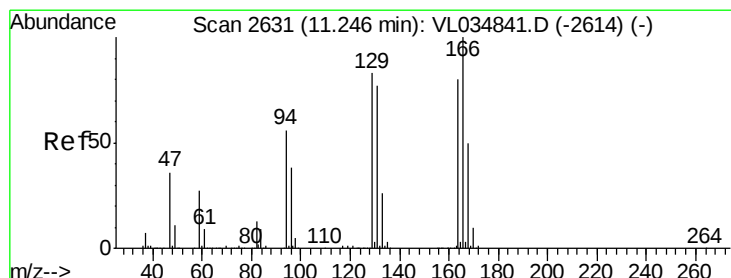
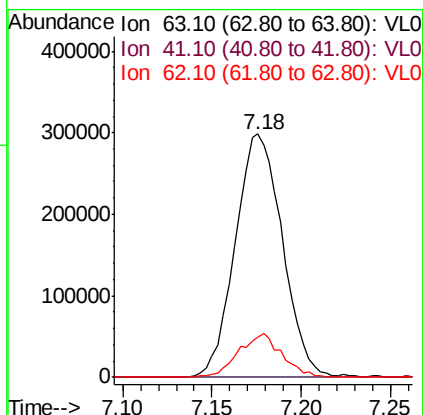
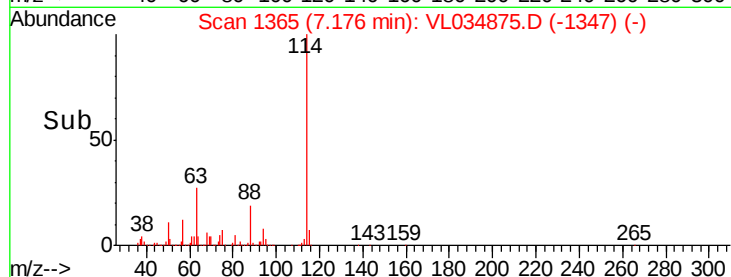
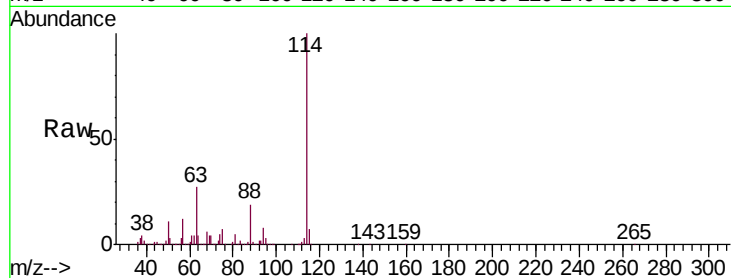
Tgt Ion: 63 Resp: 547909

Ion Ratio Lower Upper

63 100

41 0.0 59.8 89.8#

62 16.6 57.6 86.4#



#52

Tetrachloroethene

Concen: 0.012 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Tgt Ion: 164 Resp: 887

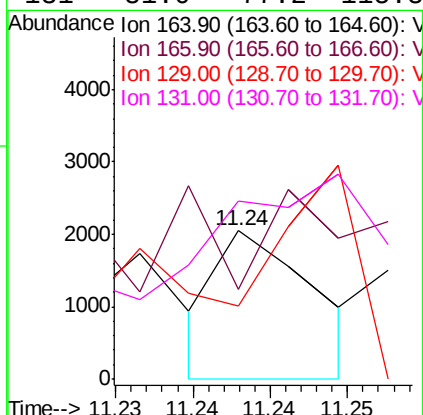
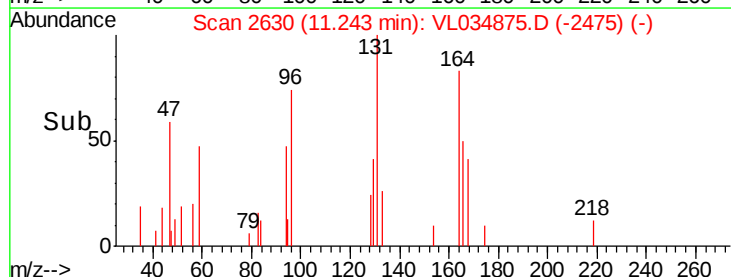
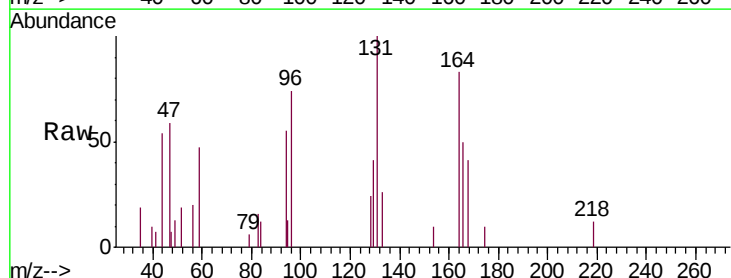
Ion Ratio Lower Upper

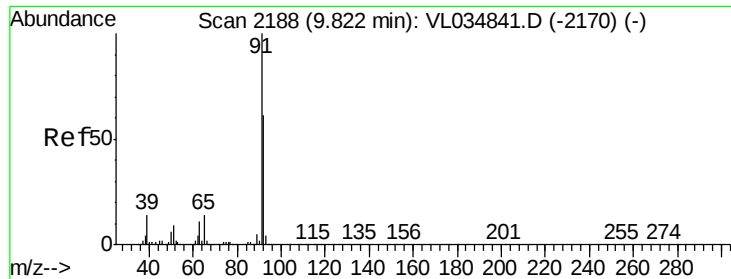
164 100

166 0.0 100.0 150.0#

129 0.0 83.1 124.7#

131 81.0 77.2 115.8





#53

Toluene

Concen: 0.058 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

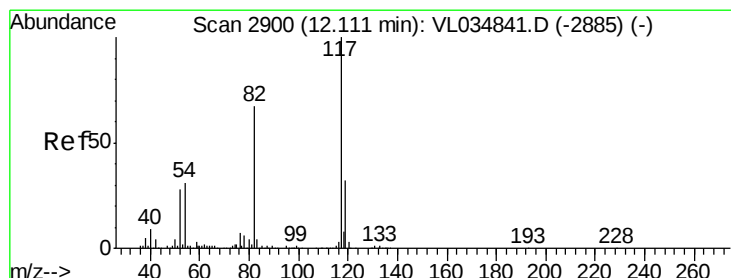
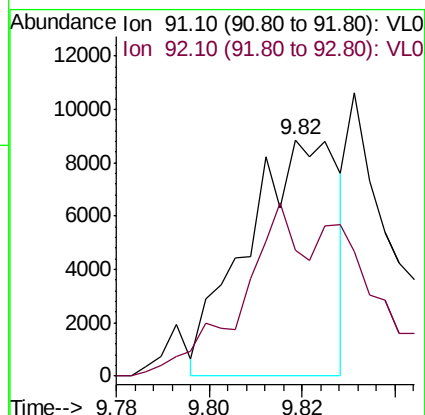
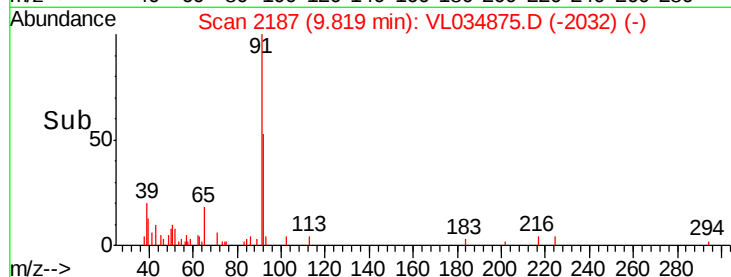
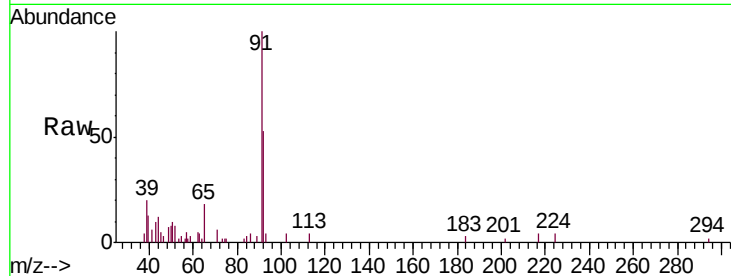
NS-2DL

Tgt Ion: 91 Resp: 12189

Ion Ratio Lower Upper

91 100

92 95.1 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

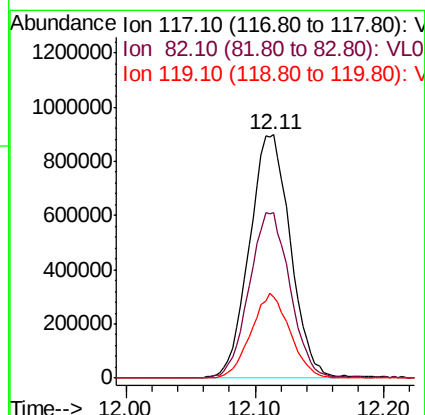
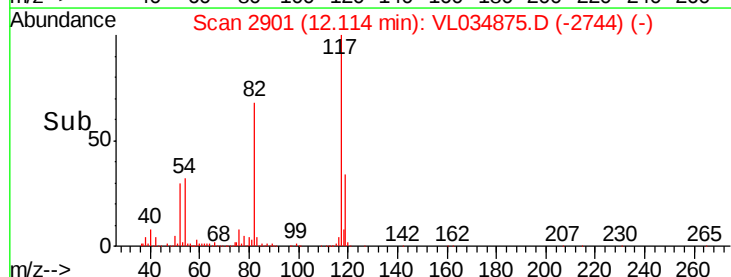
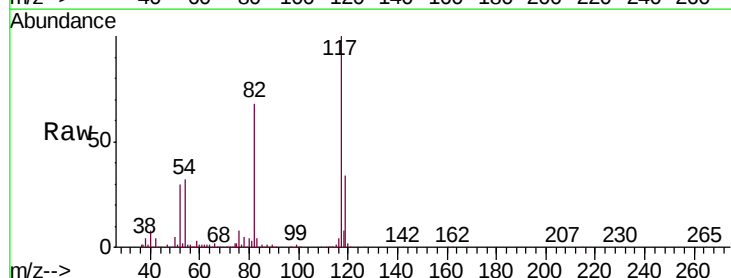
Tgt Ion: 117 Resp: 1991795

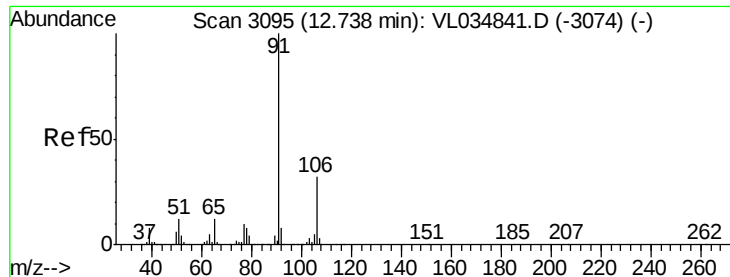
Ion Ratio Lower Upper

117 100

82 68.1 51.1 76.7

119 33.3 27.3 40.9





#58

Ethyl Benzene

Concen: 0.011 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.01 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

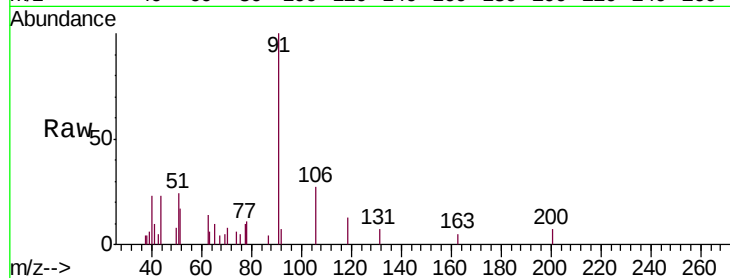
NS-2DL

Tgt Ion: 91 Resp: 2884

Ion Ratio Lower Upper

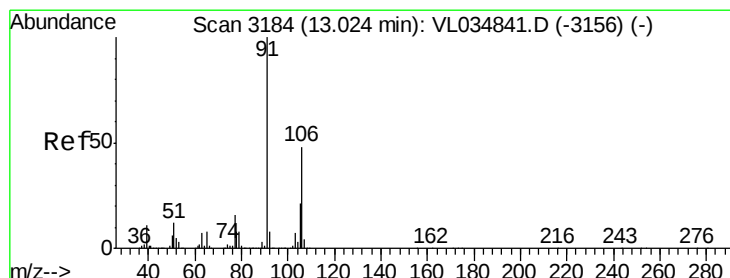
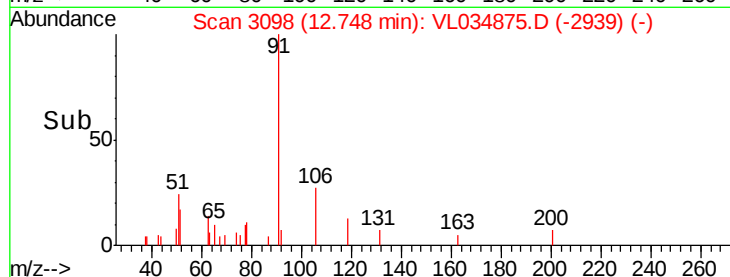
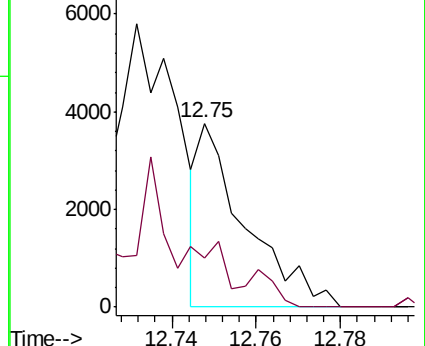
91 100

106 26.5 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. -0.00 min

Lab File: VL034875.D

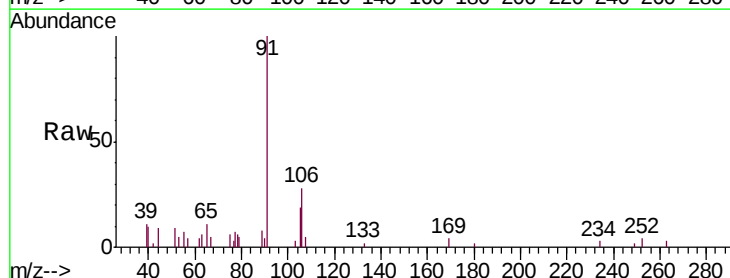
Acq: 10 Mar 2020 20:57

Tgt Ion: 91 Resp: 8224

Ion Ratio Lower Upper

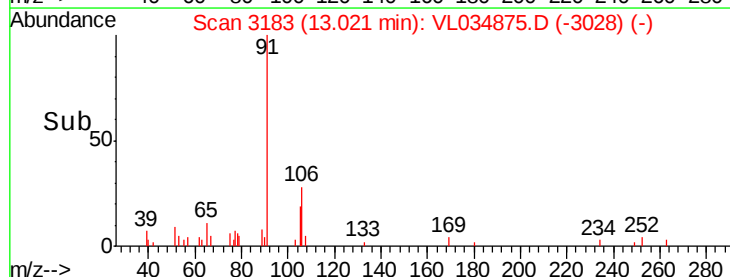
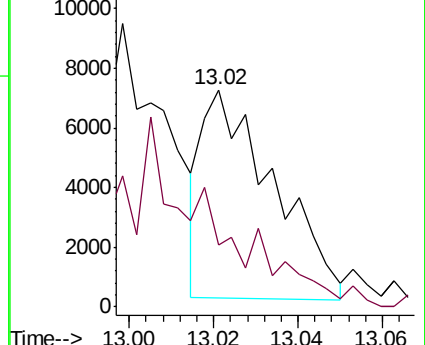
91 100

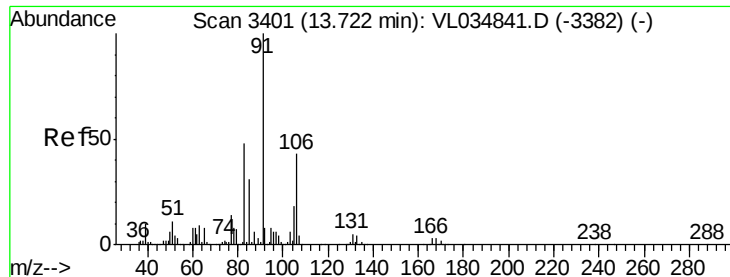
106 0.0 37.1 55.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

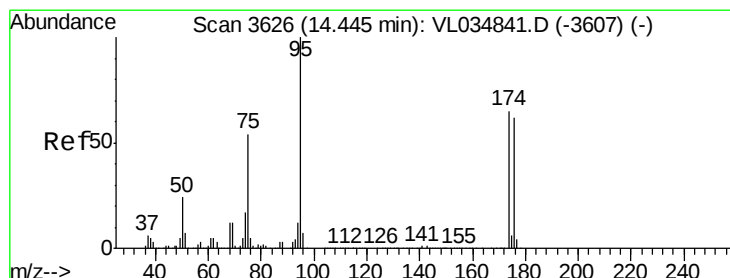
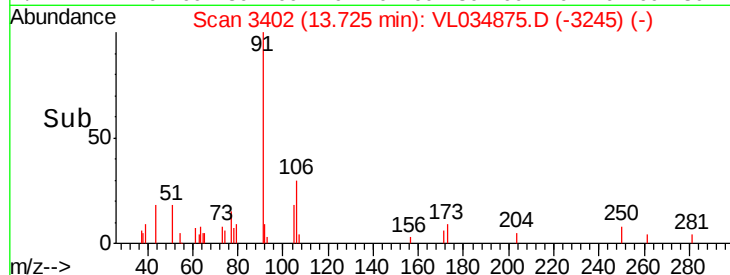
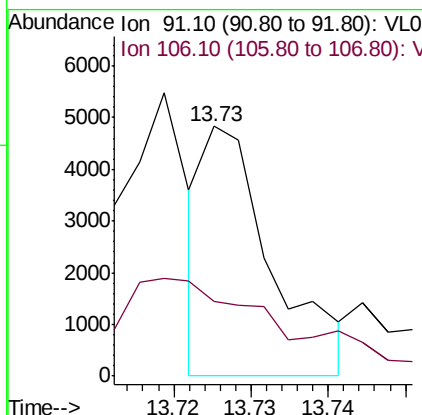
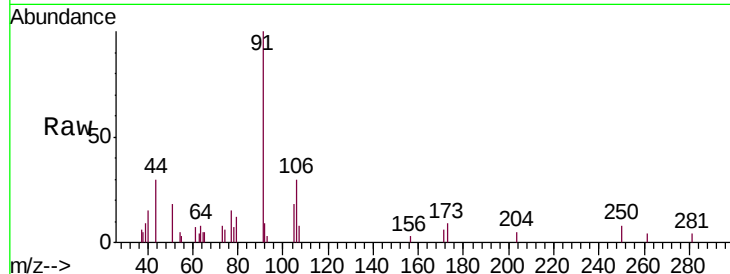




#60
o-Xylene
Concen: 0.014 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

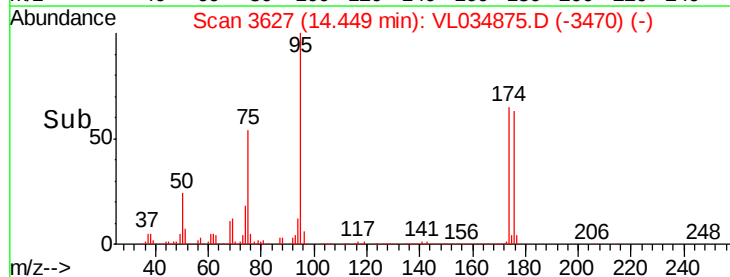
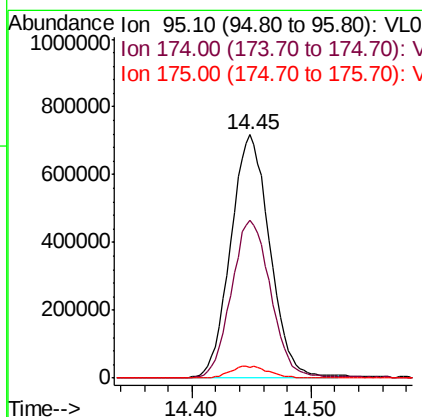
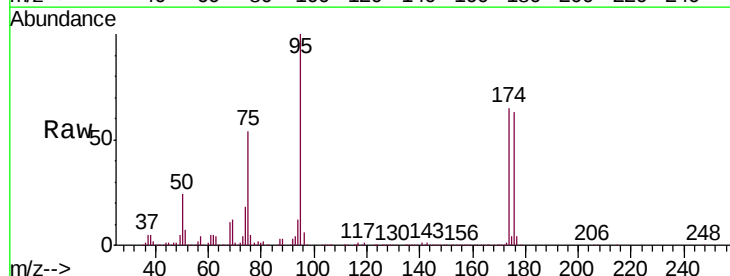
Instrument :
MSVOA_L
ClientSampleId :
NS-2DL

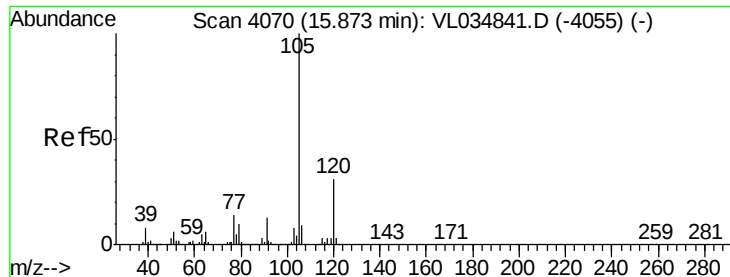
Tgt Ion: 91 Resp: 2991
Ion Ratio Lower Upper
91 100
106 0.0 22.5 67.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.503 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.00 min
Lab File: VL034875.D
Acq: 10 Mar 2020 20:57

Tgt Ion: 95 Resp: 1631453
Ion Ratio Lower Upper
95 100
174 65.8 55.2 82.8
175 5.0 4.3 6.5





#72

4-Ethyltoluene

Concen: 0.011 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.01 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Instrument :

MSVOA_L

ClientSampleId :

NS-2DL

Tgt Ion:105 Resp: 2743

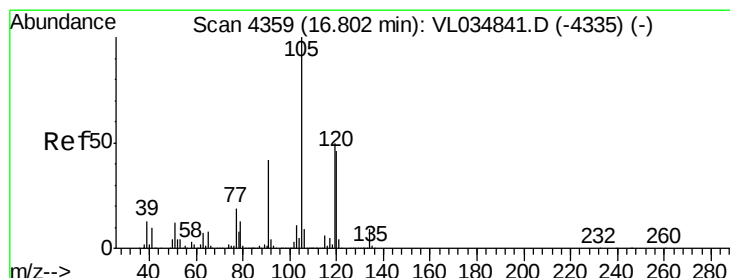
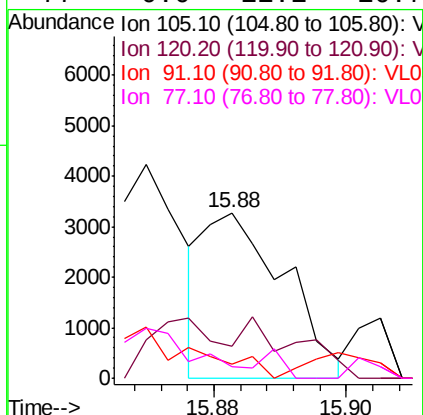
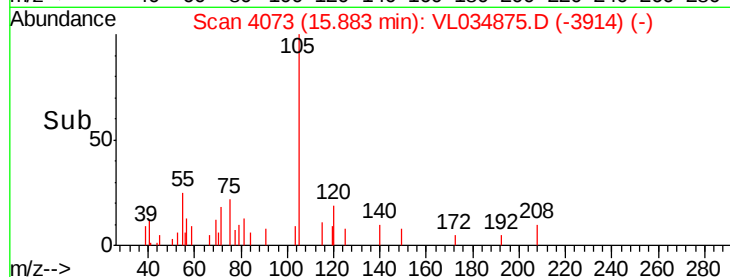
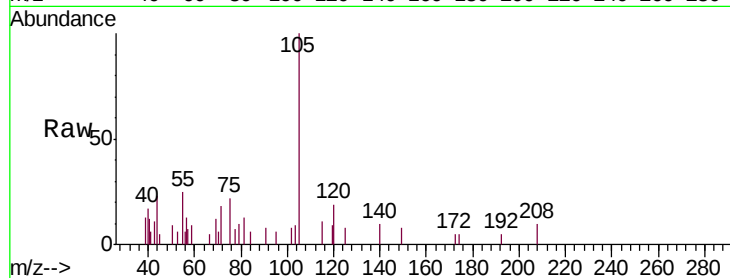
Ion Ratio Lower Upper

105 100

120 73.4 23.7 35.5#

91 0.0 10.5 15.7#

77 0.0 11.1 16.7#



#74

1,2,4-Trimethylbenzene

Concen: 0.028 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL034875.D

Acq: 10 Mar 2020 20:57

Tgt Ion:105 Resp: 6979

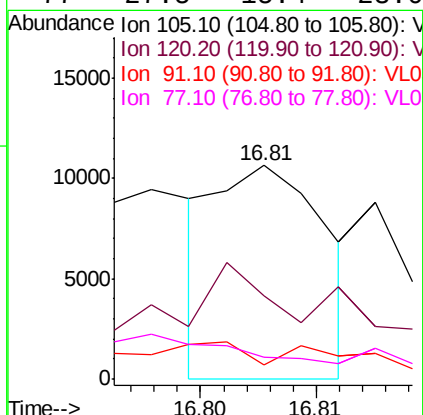
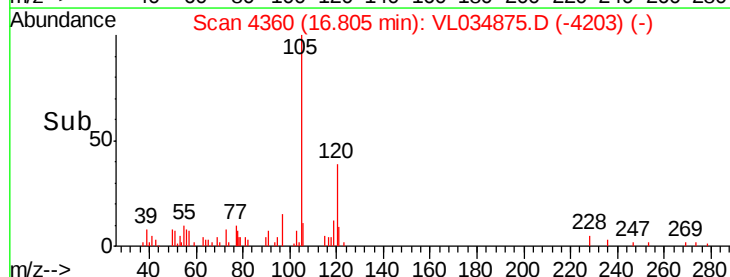
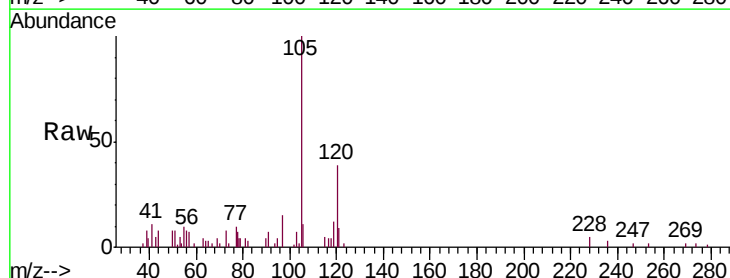
Ion Ratio Lower Upper

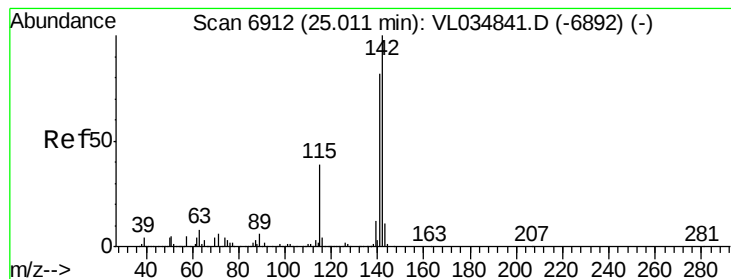
105 100

120 64.6 37.0 55.4#

91 0.0 33.8 50.6#

77 27.5 15.4 23.0#





#80
 Naphthalene, 2-methyl-
 Concen: 0.013 ppbv
 RT: 25.03 min Scan# 6918
 Delta R.T. 0.02 min
 Lab File: VL034875.D
 Acq: 10 Mar 2020 20:57

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.0	68.9	103.3
115	20.0	33.2	49.8

