

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
 Data File : VL035751.D
 Acq On : 8 Oct 2020 18:54
 Operator : SY/AP
 Sample : L4312-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:19:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1295979	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4876958	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4761363	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3585124	10.05	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

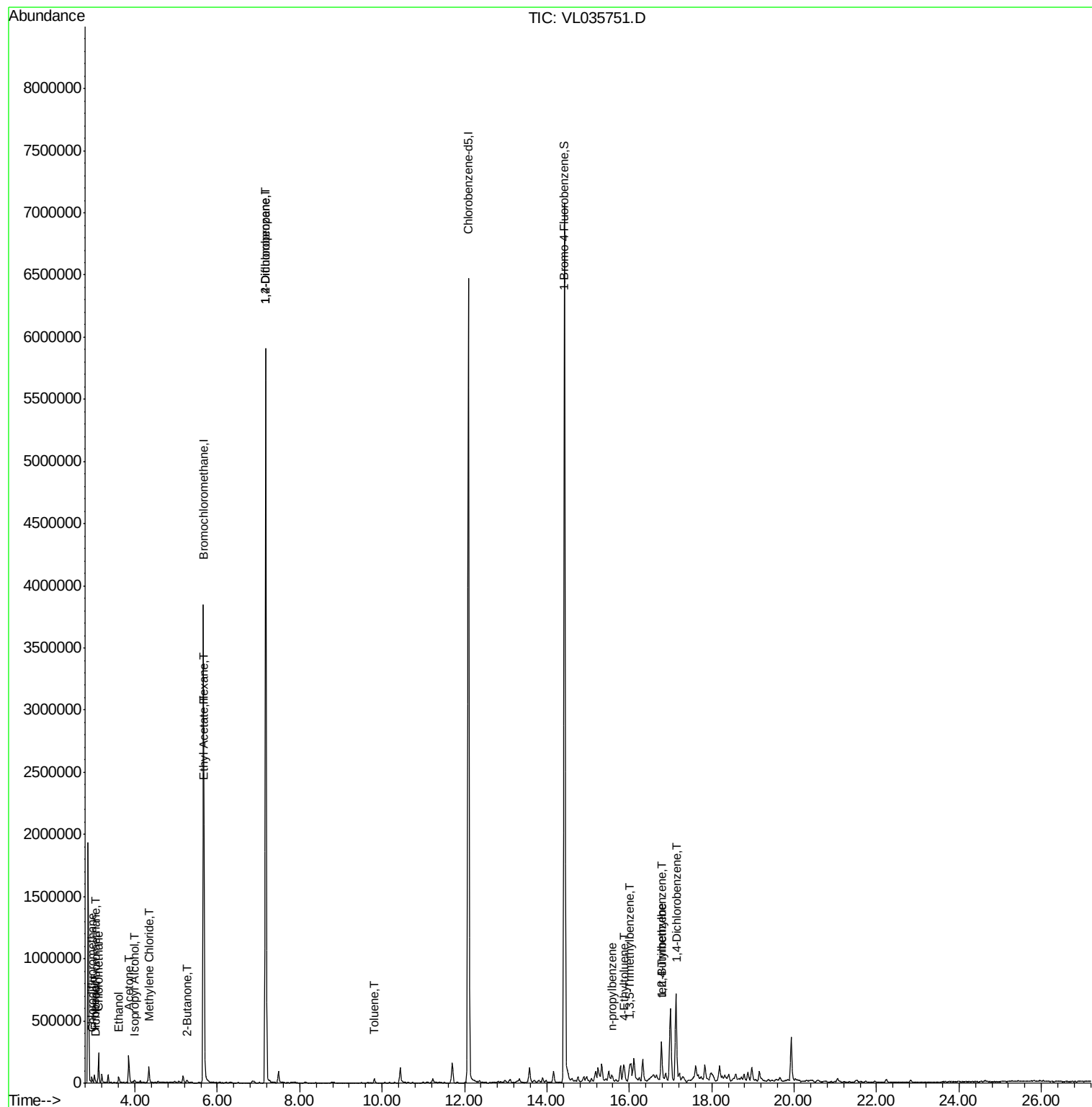
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	13699	0.064	ppbv	91
3) Chlorodifluoromethane	2.95	51	32480	0.233	ppbv #	63
4) Chloromethane	3.13	50	4307	0.058	ppbv	89
9) Propene	3.02	41	14592	0.288	ppbv #	75
13) Ethanol	3.61	45	47870	3.835	ppbv	99
15) Acetone	3.85	43	197233	1.414	ppbv	91
19) Isopropyl Alcohol	3.98	45	17994	0.237	ppbv #	1
20) Methylene Chloride	4.34	84	56925	0.556	ppbv	98
25) Ethyl Acetate	5.69	43	20328	0.081	ppbv #	88
26) Hexane	5.68	57	23785	0.173	ppbv #	59
34) 2-Butanone	5.25	43	21396	0.133	ppbv	96
39) 1,2-Dichloropropane	7.18	63	971193	8.432	ppbv #	30
53) Toluene	9.81	91	25287	0.067	ppbv	96
64) n-propylbenzene	15.57	120	6423	0.034	ppbv #	12
65) tert-Butylbenzene	16.78	119	28090	0.047	ppbv #	87
72) 4-Ethyltoluene	15.85	105	51533	0.103	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.01	105	83190	0.176	ppbv	89
74) 1,2,4-Trimethylbenzene	16.78	105	189434	0.356	ppbv #	71
76) 1,4-Dichlorobenzene	17.15	146	24515	0.071	ppbv #	1

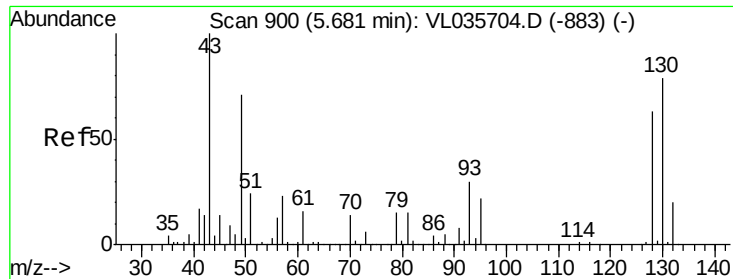
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

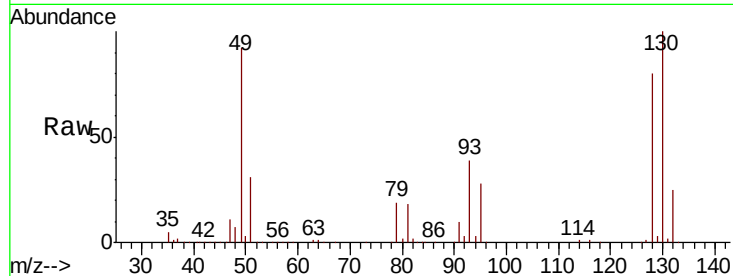
Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1295979

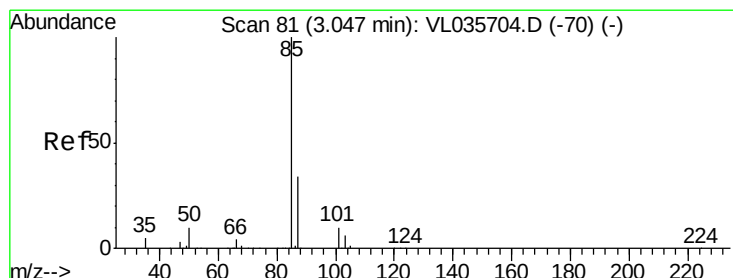
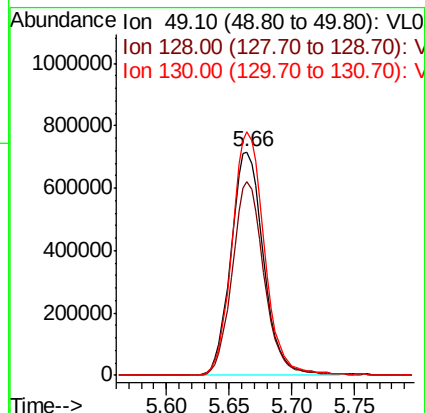
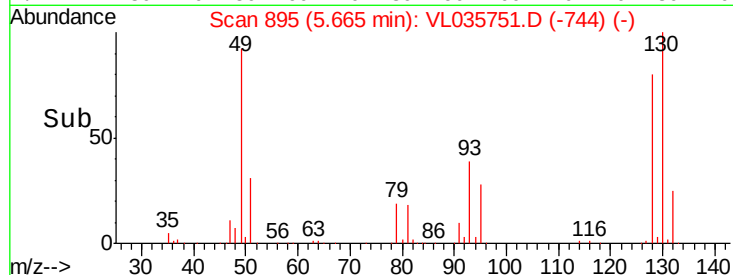
Ion	Ratio	Lower	Upper
49	100		
128	85.0	43.1	129.4
130	109.1	54.9	164.7



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: 0.064 ppbv

RT: 3.04 min Scan# 79

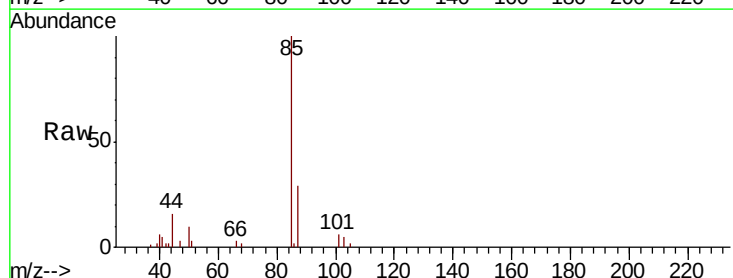
Delta R.T. -0.01 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

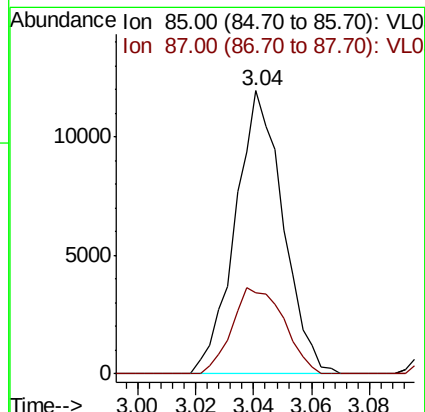
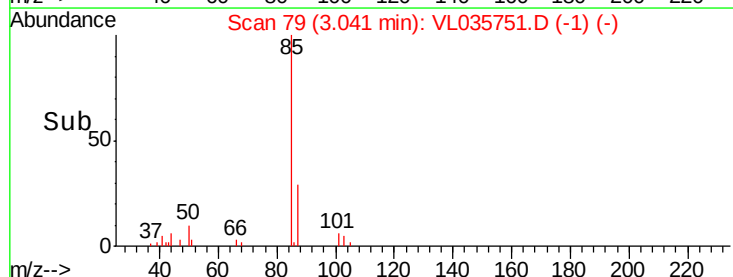
Tgt Ion: 85 Resp: 13699

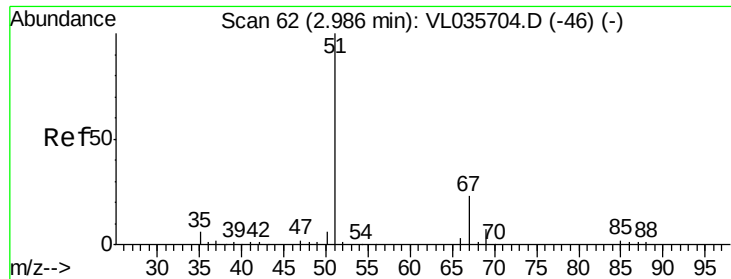
Ion	Ratio	Lower	Upper
85	100		
87	28.9	27.3	40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

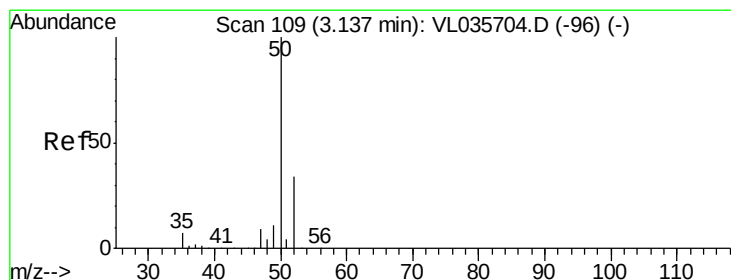
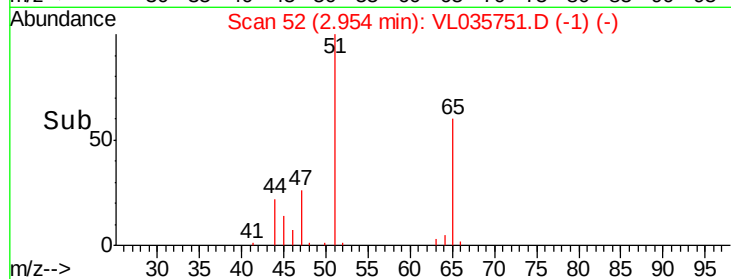
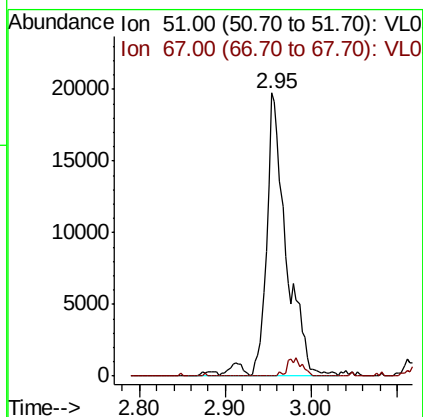
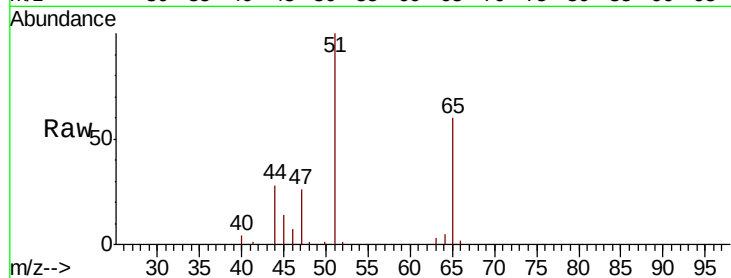




#3
 Chlorodifluoromethane
 Concen: 0.233 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. -0.03 min
 Lab File: VL035751.D
 Acq: 8 Oct 2020 18:54

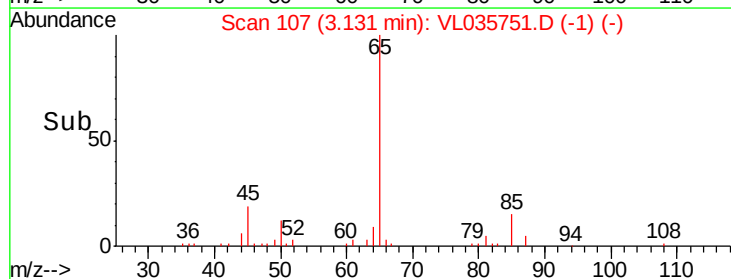
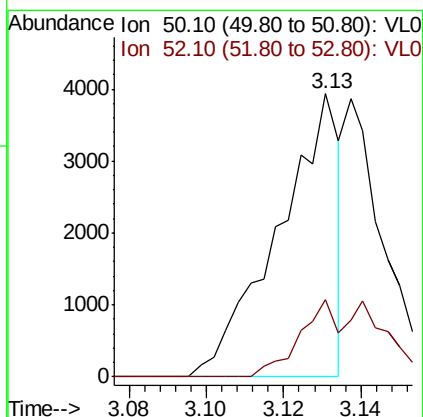
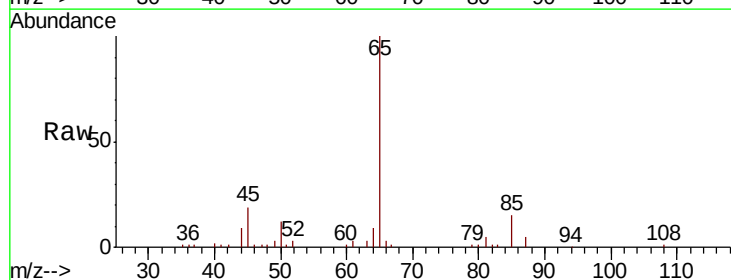
Instrument :
 MSVOA_L
 ClientSampleId :

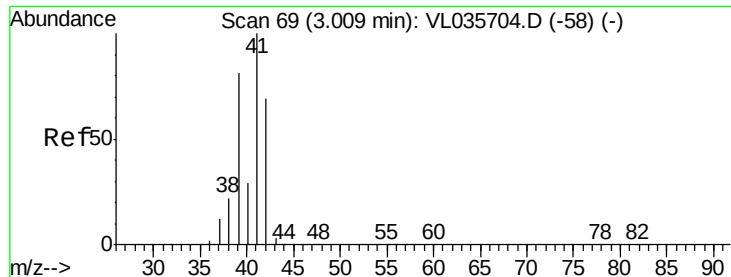
Tot Ion: 51 Resp: 32480
 Ion Ratio Lower Upper
 51 100
 67 4.6 17.8 26.8#



#4
 Chloromethane
 Concen: 0.058 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. -0.01 min
 Lab File: VL035751.D
 Acq: 8 Oct 2020 18:54

Tgt Ion: 50 Resp: 4307
 Ion Ratio Lower Upper
 50 100
 52 27.5 26.8 40.2





#9

Propene

Concen: 0.288 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

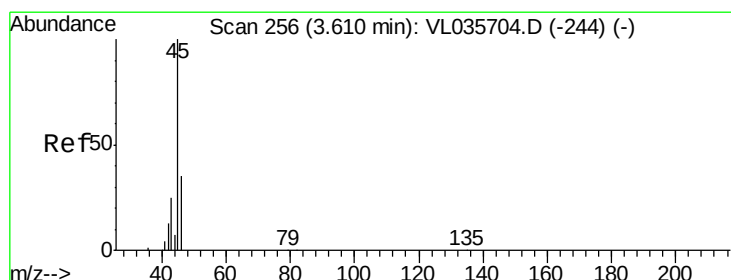
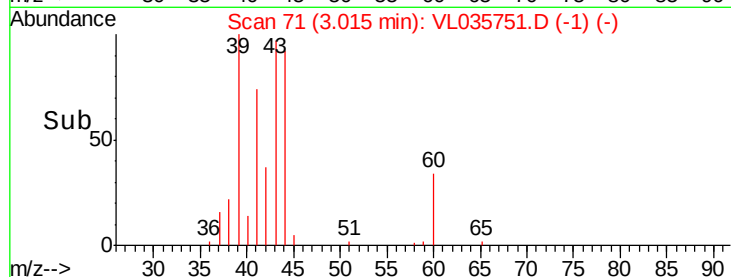
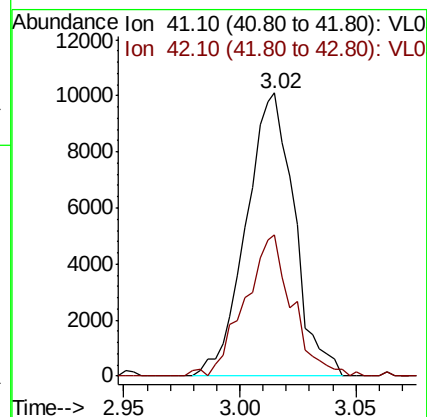
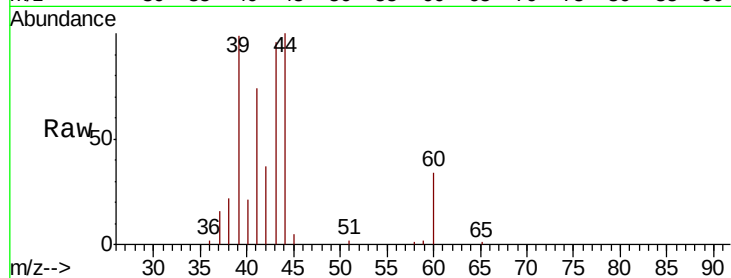
ClientSampleId :

Tot Ion: 41 Resp: 14592

Ion Ratio Lower Upper

41 100

42 49.4 56.2 84.4#



#13

Ethanol

Concen: 3.835 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035751.D

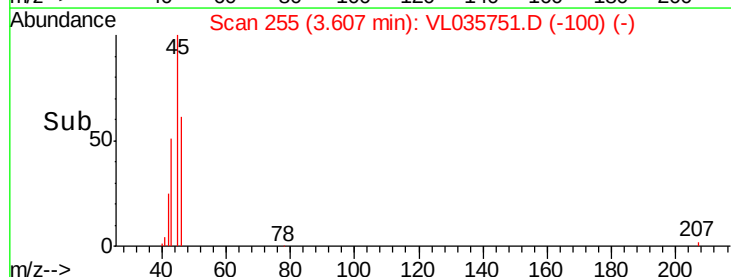
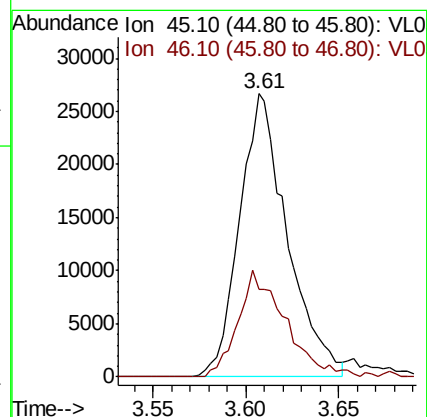
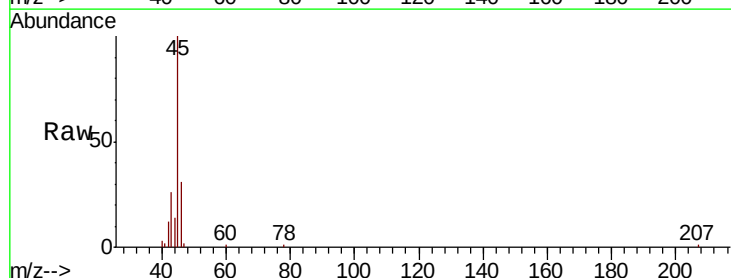
Acq: 8 Oct 2020 18:54

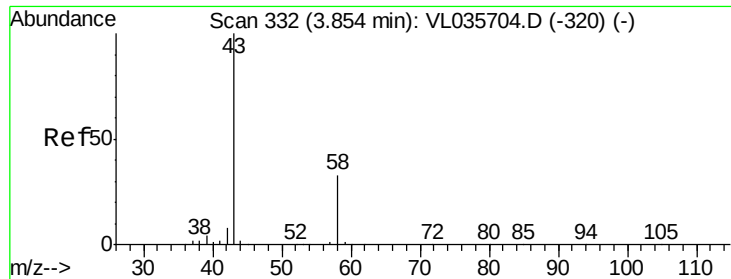
Tgt Ion: 45 Resp: 47870

Ion Ratio Lower Upper

45 100

46 37.2 14.7 58.7





#15

Acetone

Concen: 1.414 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

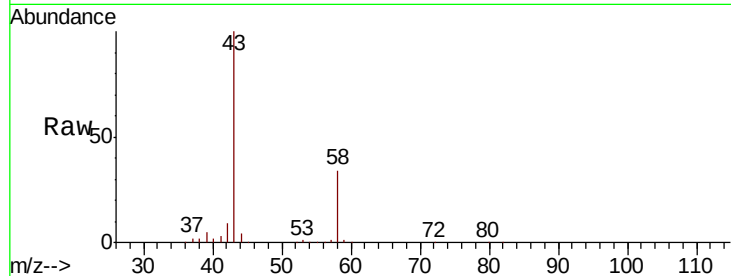
ClientSampleId :

Tot Ion: 43 Resp: 197233

Ion Ratio Lower Upper

43 100

58 39.5 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

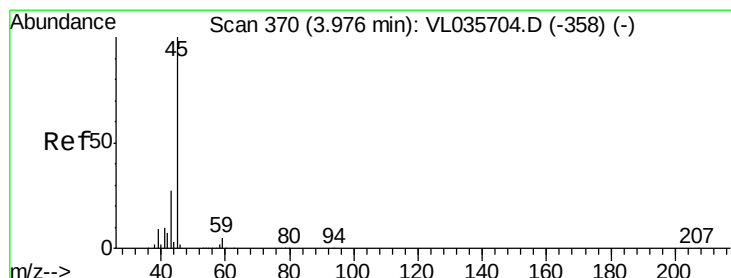
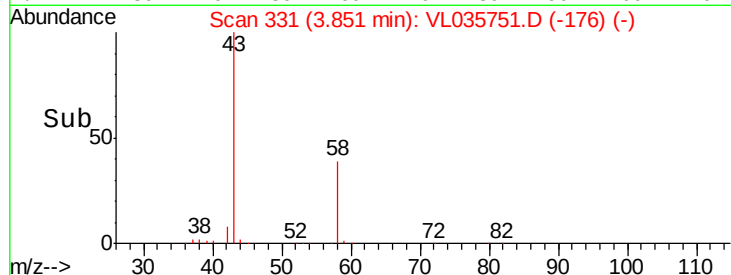
150000

100000

50000

0

Time-->



#19

Isopropyl Alcohol

Concen: 0.237 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035751.D

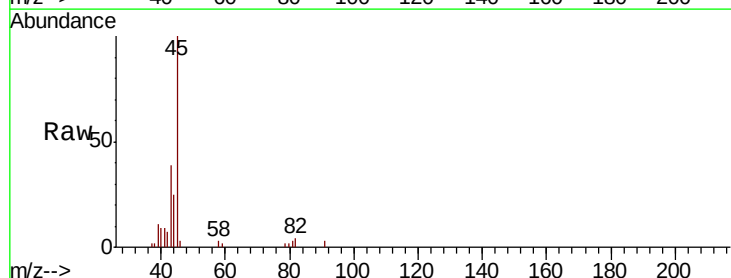
Acq: 8 Oct 2020 18:54

Tgt Ion: 45 Resp: 17994

Ion Ratio Lower Upper

45 100

58 433.8 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

10000

8000

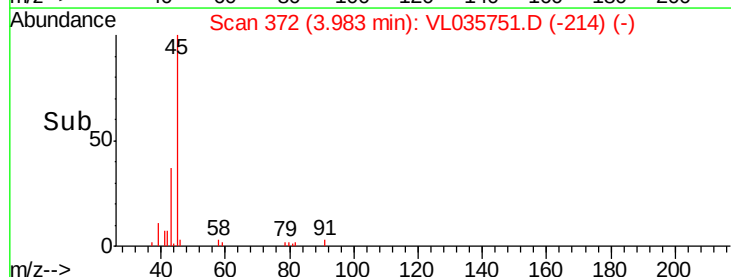
6000

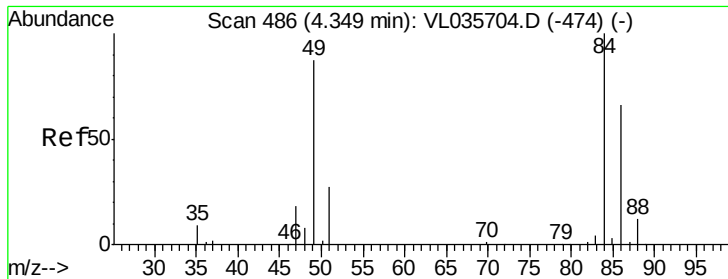
4000

2000

0

Time-->

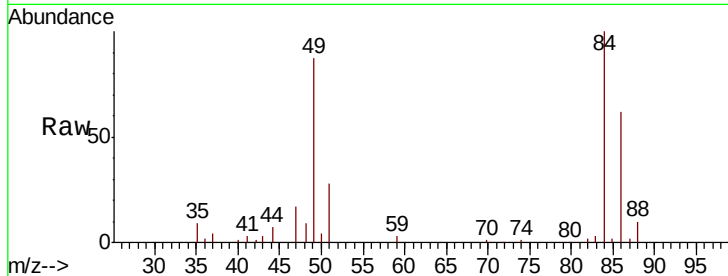




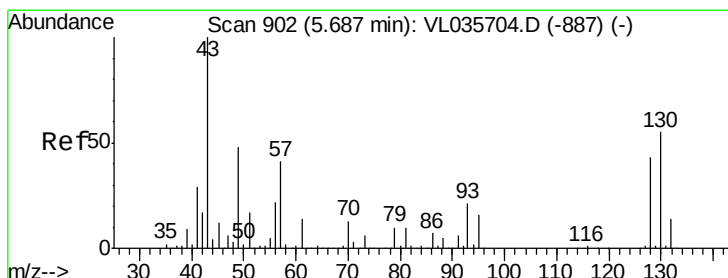
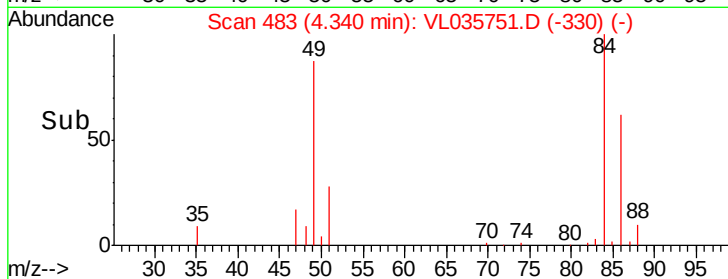
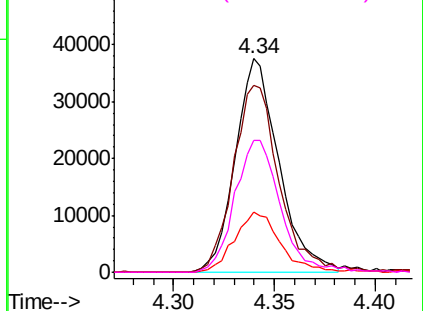
#20
Methvlene Chloride
Concen: 0.556 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL035751.D
Acq: 8 Oct 2020 18:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	56925
Ion	Ratio	Lower	Upper
84	100		
49	87.3	69.8	104.6
51	28.2	21.8	32.8
86	61.8	52.6	78.8

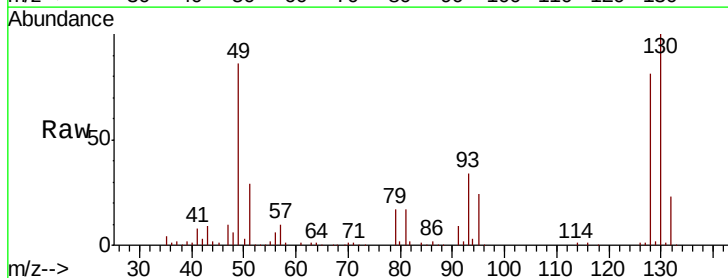


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

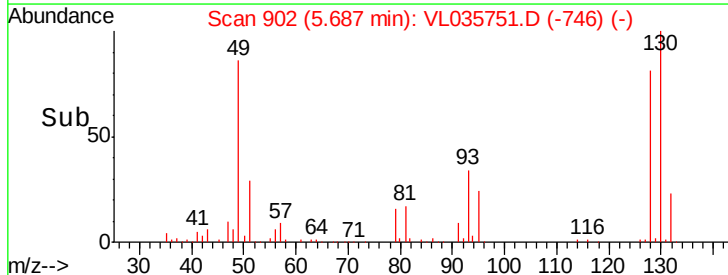
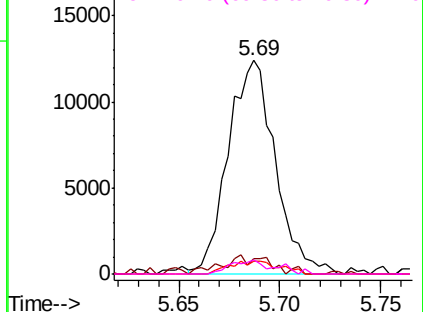


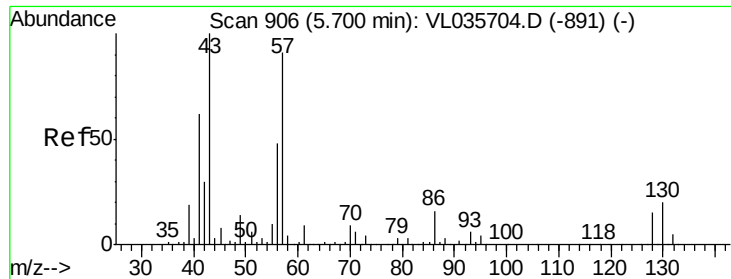
#25
Ethyl Acetate
Concen: 0.081 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035751.D
Acq: 8 Oct 2020 18:54

Tgt Ion:	43	Resp:	20328
Ion	Ratio	Lower	Upper
43	100		
45	8.8	8.6	12.8
61	6.3	10.4	15.6#
70	6.1	8.9	13.3#



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: 0.173 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

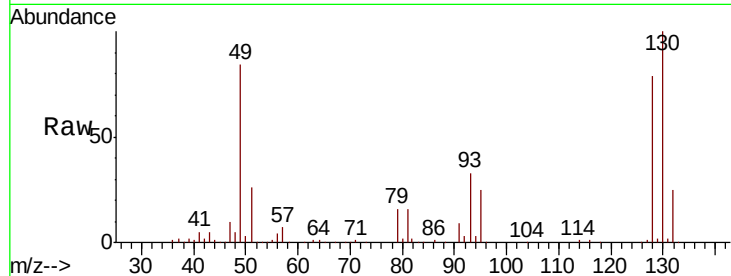
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 23785

Ion	Ratio	Lower	Upper
57	100		
41	75.7	57.9	86.9
43	87.8	143.8	215.6#
56	60.1	43.0	64.6



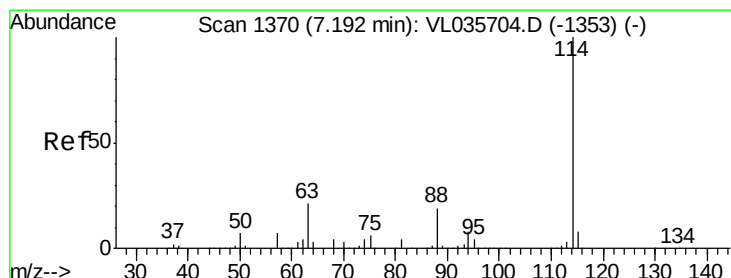
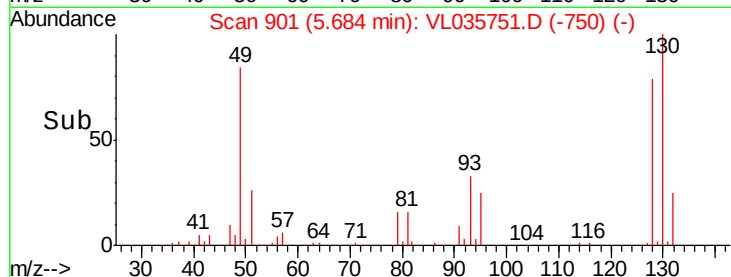
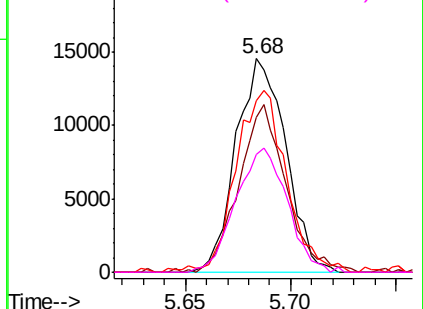
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

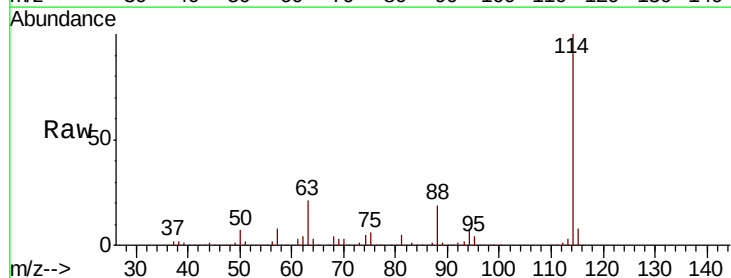
Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Tgt Ion: 114 Resp: 4876958

Ion	Ratio	Lower	Upper
114	100		
63	20.0	16.1	24.1
88	17.6	14.1	21.1

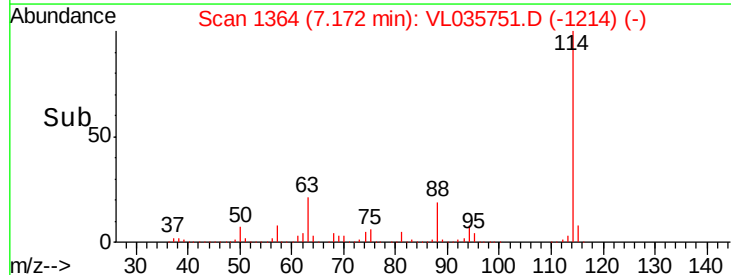
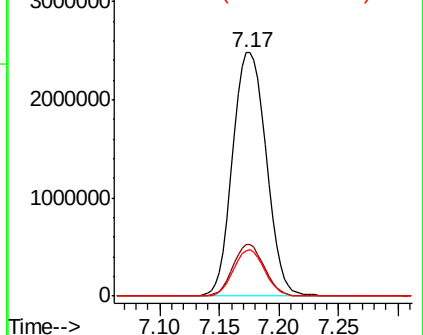


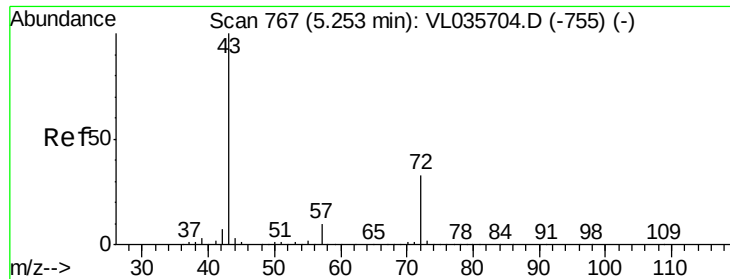
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.133 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

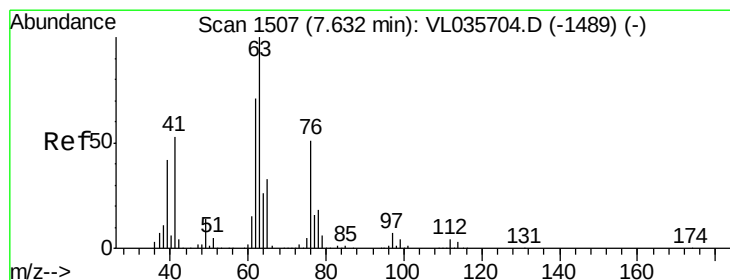
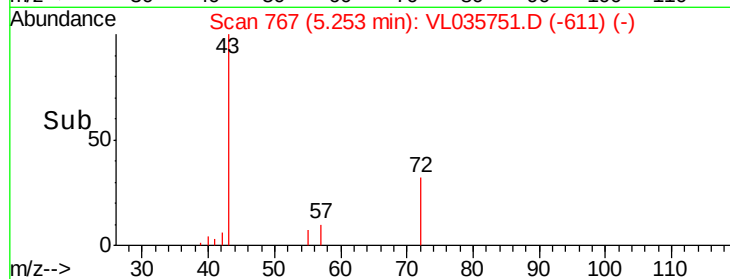
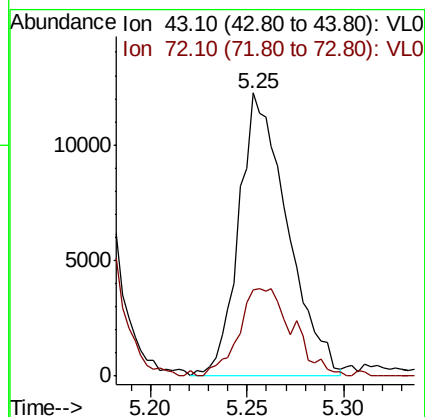
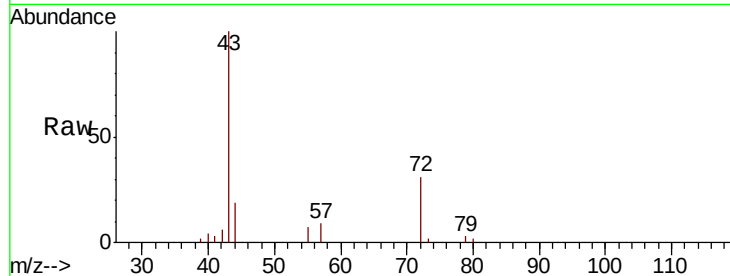
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 21396

Ion Ratio Lower Upper

43 100

72 34.8 26.1 39.1



#39

1,2-Dichloropropane

Concen: 8.432 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.46 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

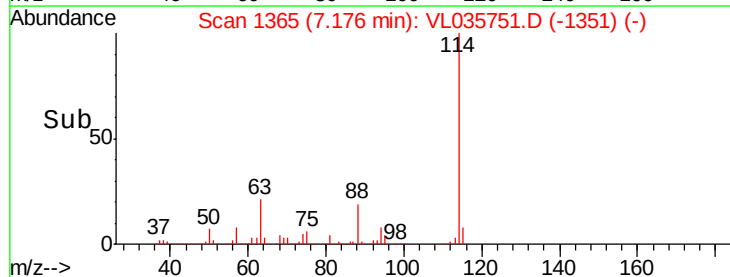
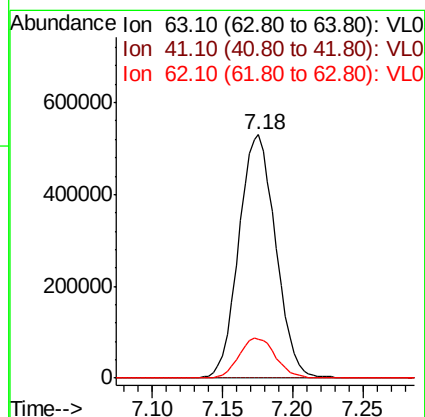
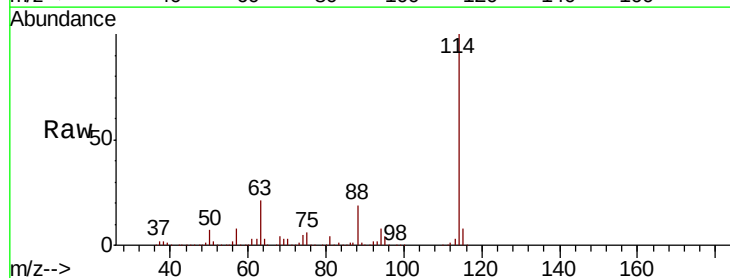
Tgt Ion: 63 Resp: 971193

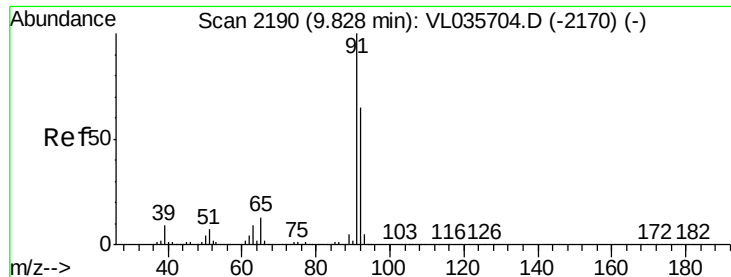
Ion Ratio Lower Upper

63 100

41 0.0 42.6 63.8#

62 15.8 56.5 84.7#





#53

Toluene

Concen: 0.067 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

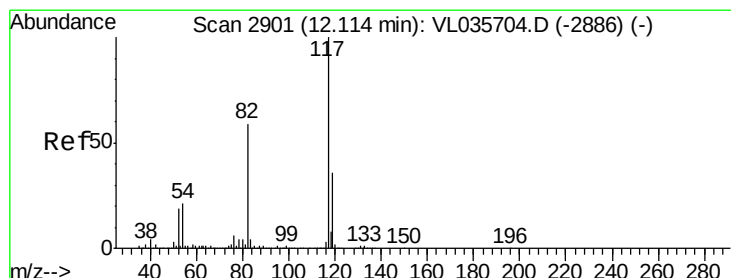
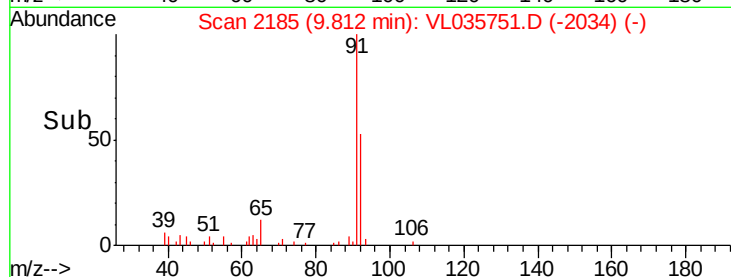
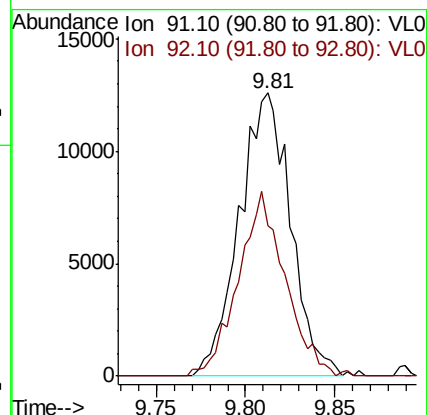
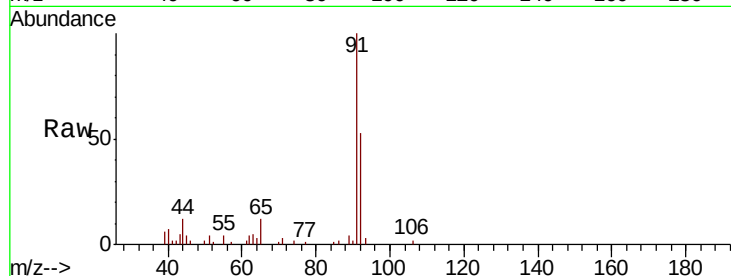
ClientSampleId :

Tot Ion: 91 Resp: 25287

Ion Ratio Lower Upper

91 100

92 59.4 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

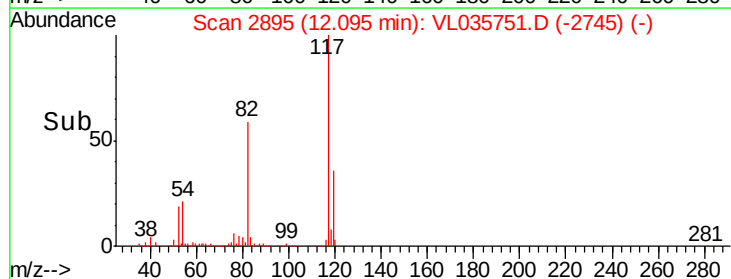
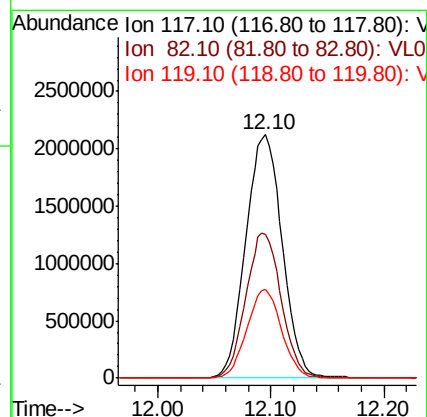
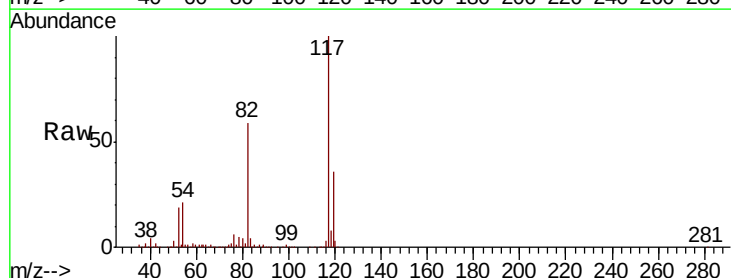
Tgt Ion: 117 Resp: 4761363

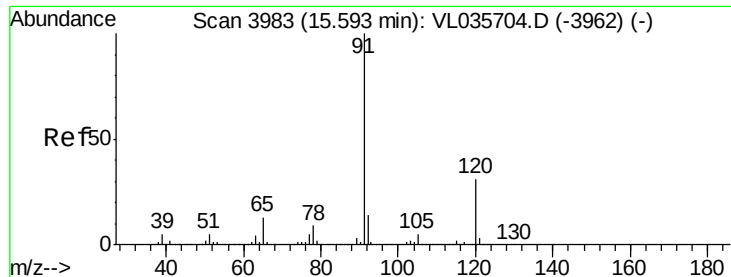
Ion Ratio Lower Upper

117 100

82 58.2 46.1 69.1

119 34.9 28.0 42.0

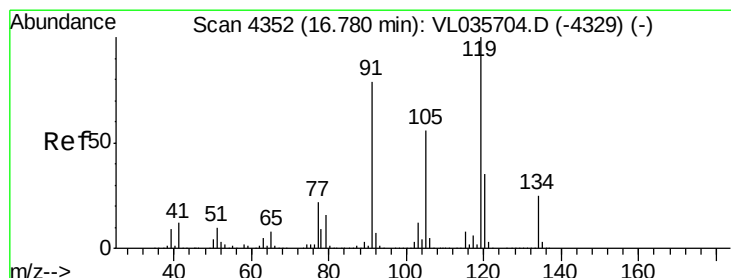
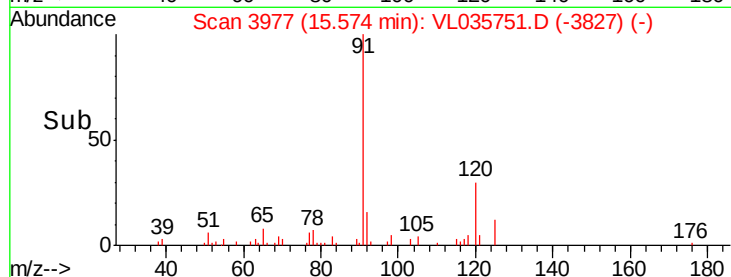
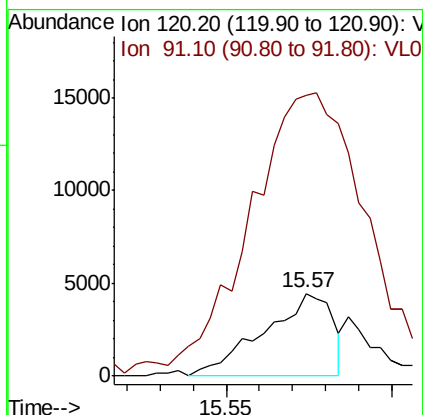
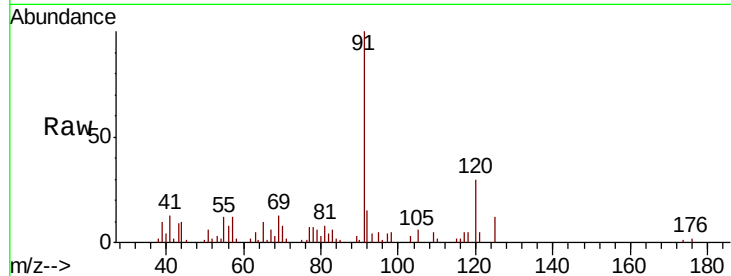




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 15.57 min Scan# 3977
Delta R.T. -0.02 min
Lab File: VL035751.D
Acq: 8 Oct 2020 18:54

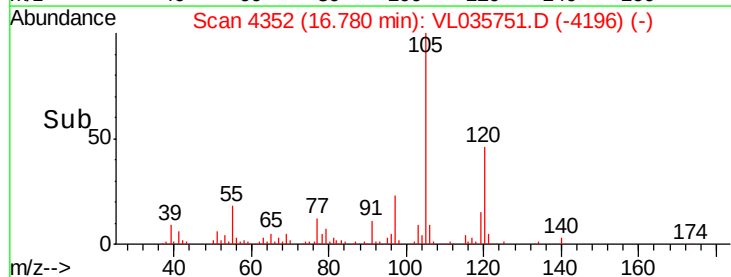
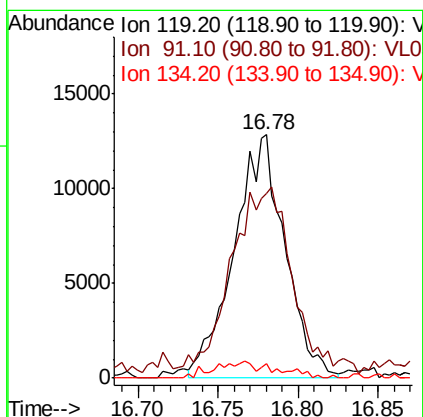
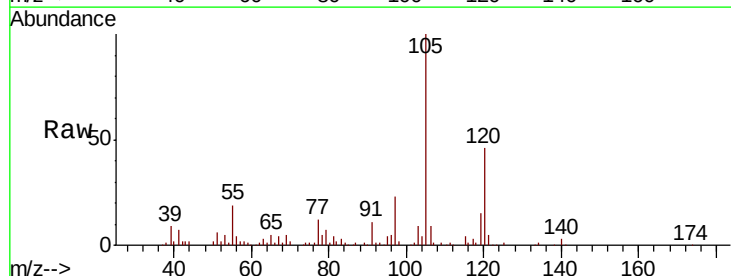
Instrument :
MSVOA_L
ClientSampleId :

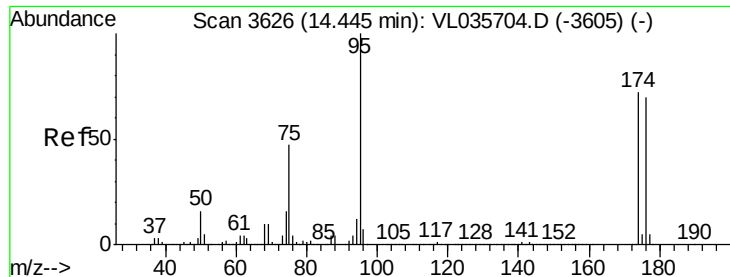
Tot Ion:120 Resp: 6423
Ion Ratio Lower Upper
120 100
91 576.7 300.4 450.6#



#65
tert-Butylbenzene
Concen: 0.047 ppbv
RT: 16.78 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL035751.D
Acq: 8 Oct 2020 18:54

Tgt Ion:119 Resp: 28090
Ion Ratio Lower Upper
119 100
91 85.0 62.4 93.6
134 8.2 18.2 27.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.048 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

ClientSampled :

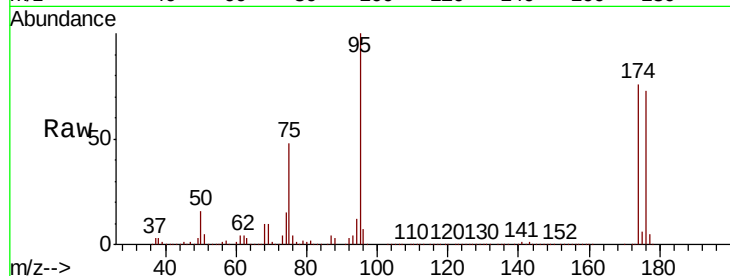
Tot Ion: 95 Resp: 3585124

Ion Ratio Lower Upper

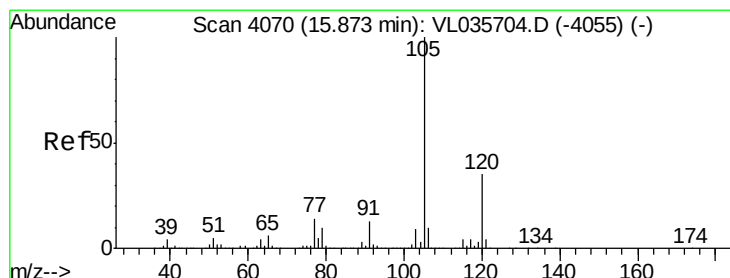
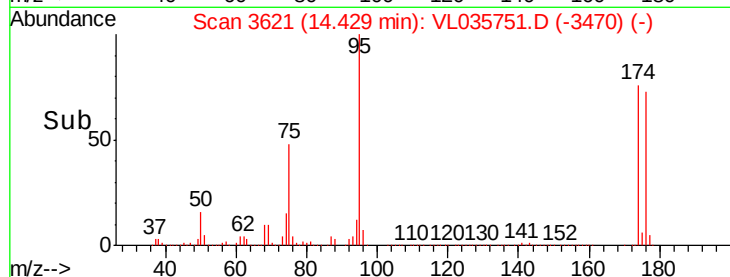
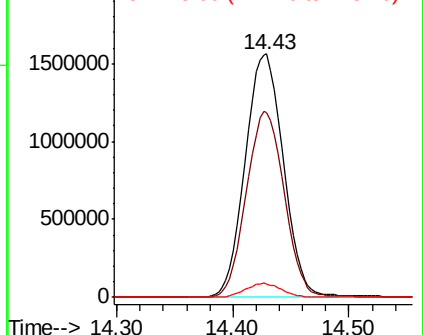
95 100

174 76.6 59.6 89.4

175 5.6 4.2 6.4



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



#72

4-Ethyltoluene

Concen: 0.103 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Tgt Ion: 105 Resp: 51533

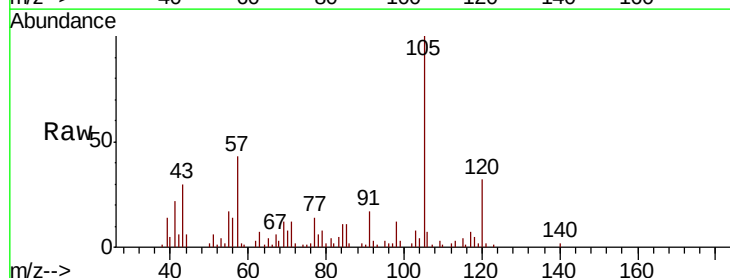
Ion Ratio Lower Upper

105 100

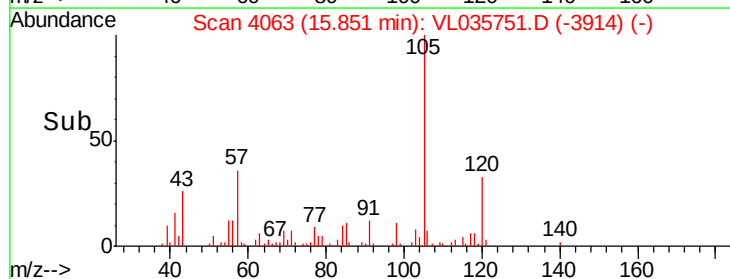
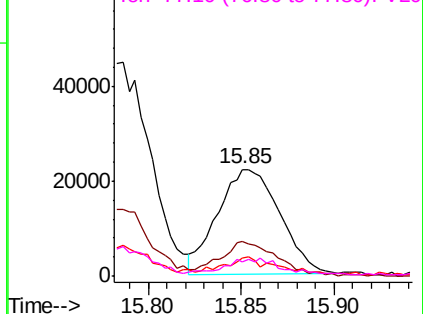
120 30.6 26.5 39.7

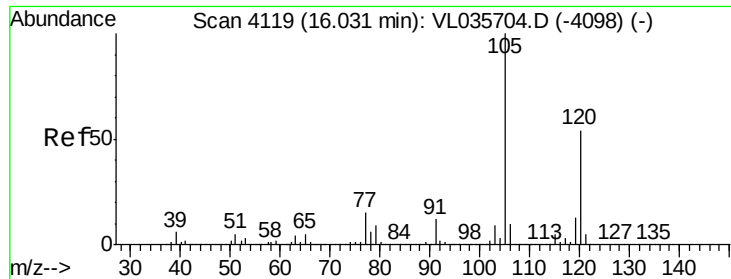
91 16.2 10.2 15.2#

77 14.7 10.3 15.5



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.176 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

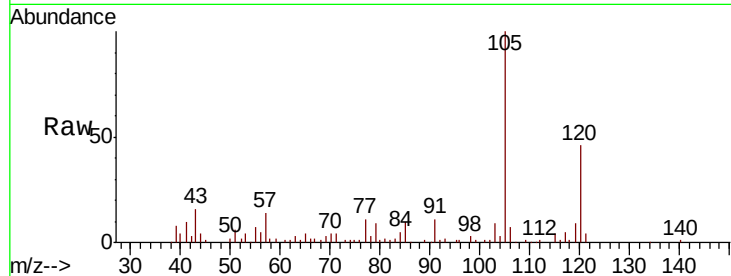
ClientSampleId :

Tot Ion:105 Resp: 83190

Ion Ratio Lower Upper

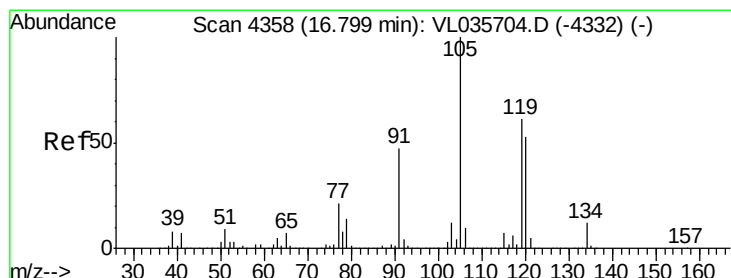
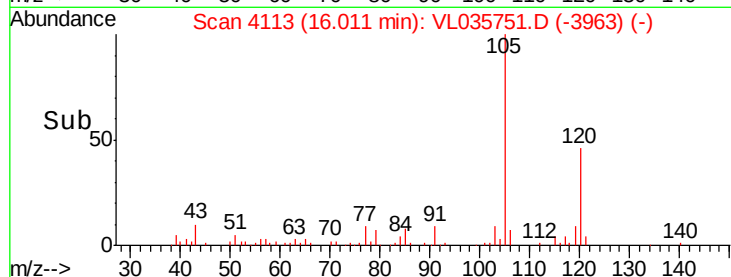
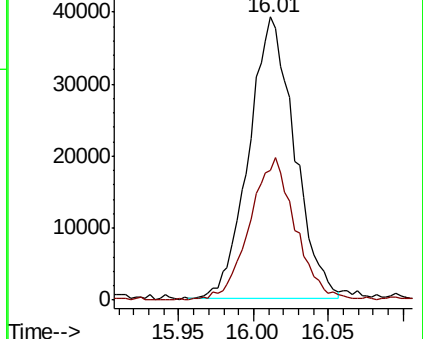
105 100

120 46.1 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.356 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Tgt Ion:105 Resp: 189434

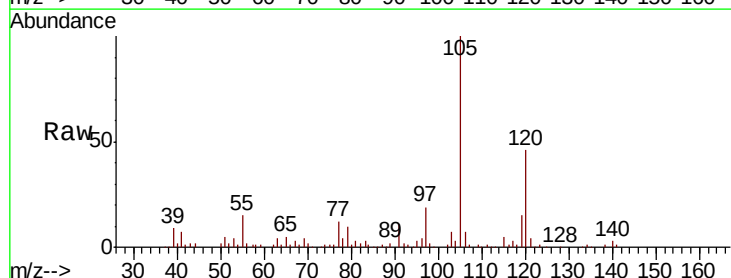
Ion Ratio Lower Upper

105 100

120 45.7 42.5 63.7

91 10.7 37.7 56.5#

77 11.9 16.7 25.1#

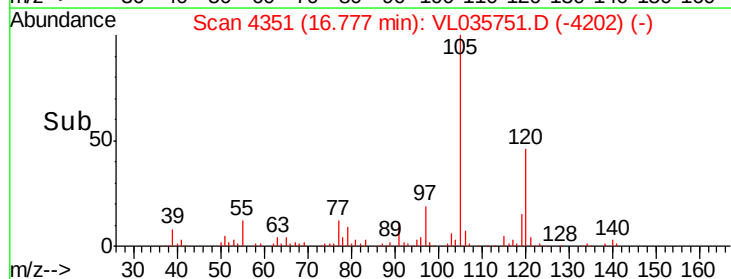
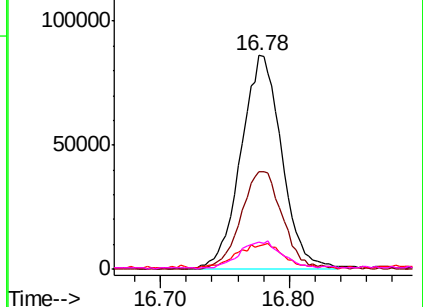


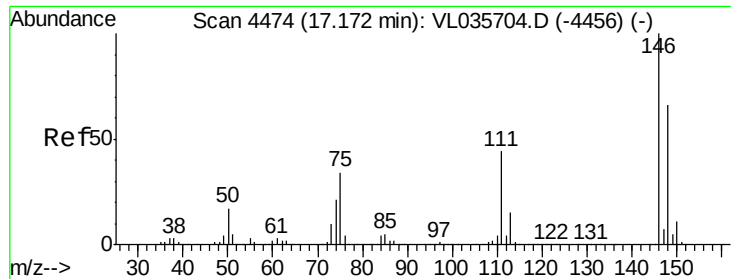
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.071 ppbv

RT: 17.15 min Scan# 4467

Delta R.T. -0.02 min

Lab File: VL035751.D

Acq: 8 Oct 2020 18:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 24515

Ion Ratio Lower Upper

146 100

111 142.7 21.4 64.3#

148 0.0 32.6 98.0#

