

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035071.D
 Acq On : 20 May 2020 8:34
 Operator : SY/AP
 Sample : L2712-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 09:04:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1201480	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2776403	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2621350	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2228754	10.50	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%	

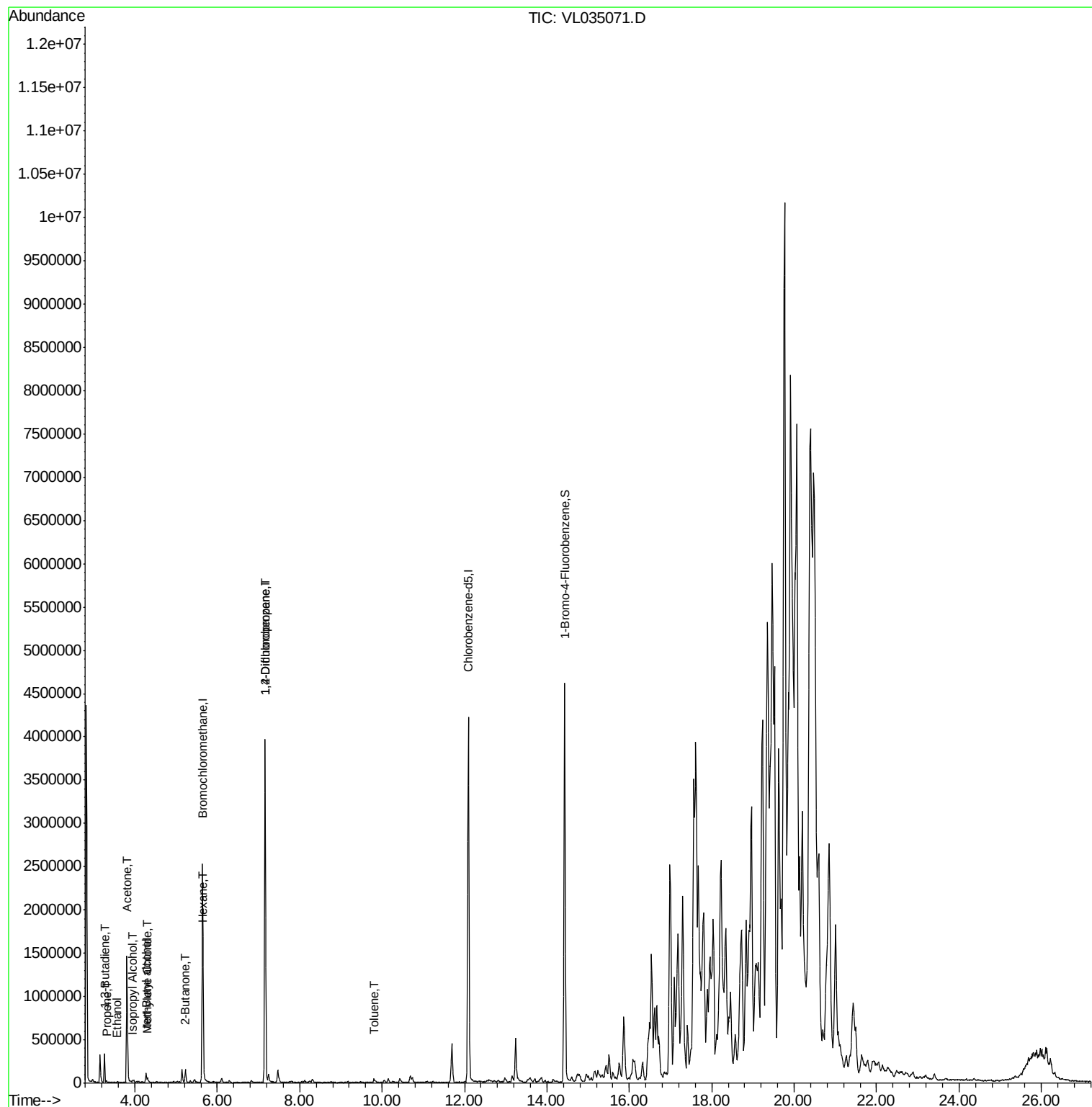
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.31	41	2687	0.045	ppbv	97
13) Ethanol	3.56	45	887	0.045	ppbv #	39
15) Acetone	3.81	43	1503177	9.463	ppbv	96
16) 1,3-Butadiene	3.26	39	75294	1.102	ppbv #	17
17) tert-Butyl alcohol	4.27	59	76007	0.538	ppbv	95
19) Isopropyl Alcohol	3.93	45	8809	0.083	ppbv #	94
20) Methylene Chloride	4.30	84	7535	0.143	ppbv #	92
26) Hexane	5.66	57	10660	0.092	ppbv #	21
34) 2-Butanone	5.22	43	169425	0.982	ppbv	98
39) 1,2-Dichloropropane	7.16	63	746629	8.137	ppbv #	24
53) Toluene	9.79	91	7863	0.032	ppbv #	20

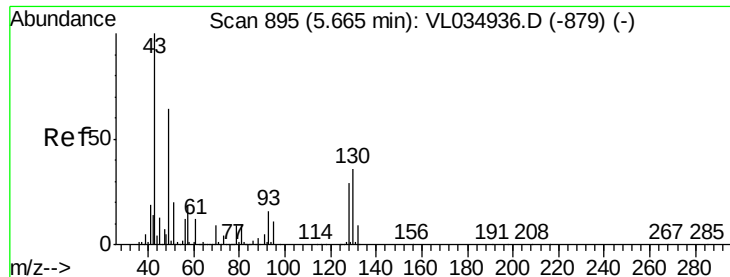
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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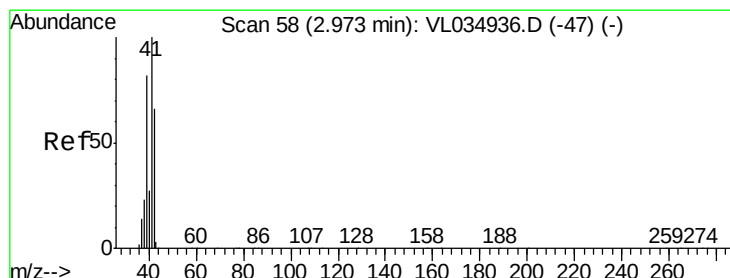
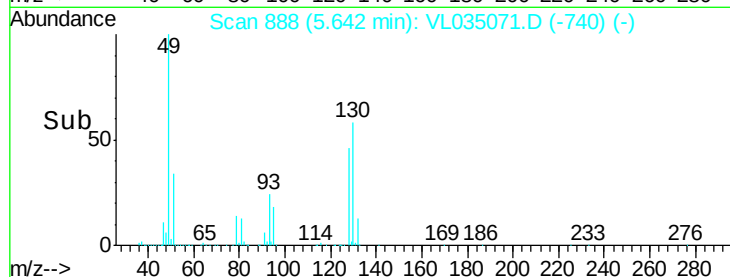
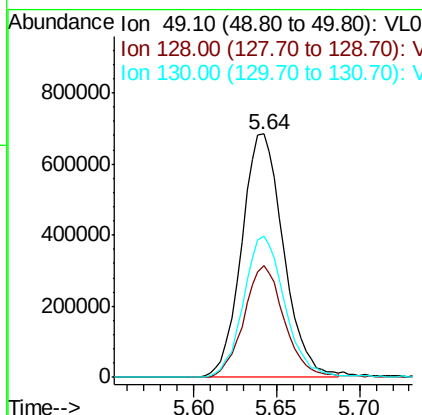
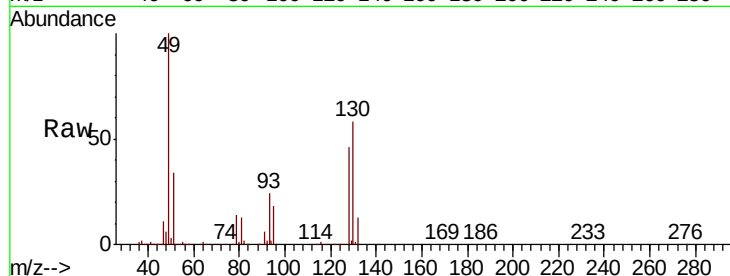




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: VL035071.D
 Acq: 20 May 2020 8:34

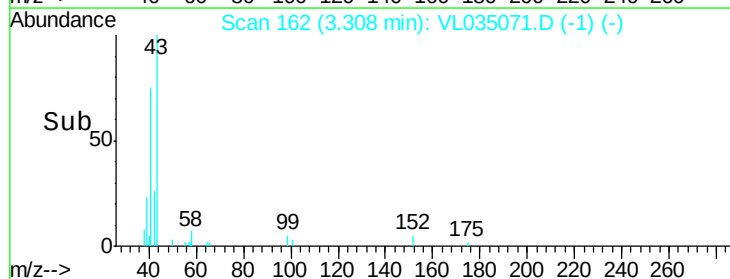
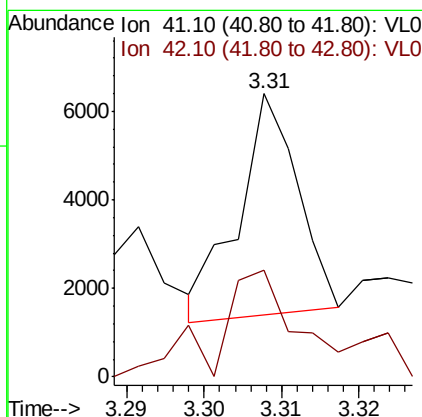
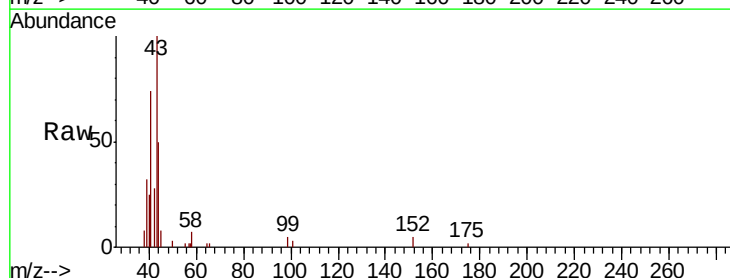
Instrument :
 MSVOA_L
 ClientSampleId :

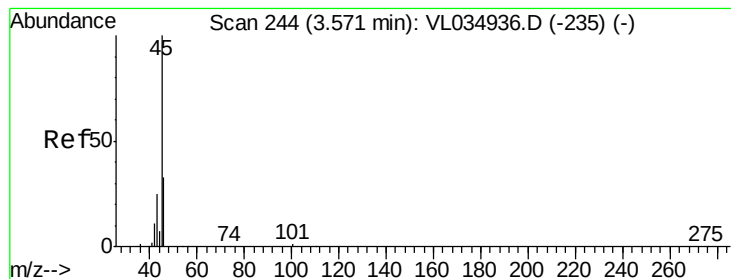
Tot Ion: 49 Resp: 1201480
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.1 66.5
 130 58.0 29.1 87.3



#9
 Propene
 Concen: 0.045 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. 0.33 min
 Lab File: VL035071.D
 Acq: 20 May 2020 8:34

Tgt Ion: 41 Resp: 2687
 Ion Ratio Lower Upper
 41 100
 42 65.8 54.5 81.7





#13

Ethanol

Concen: 0.045 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.02 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

Instrument :

MSVOA_L

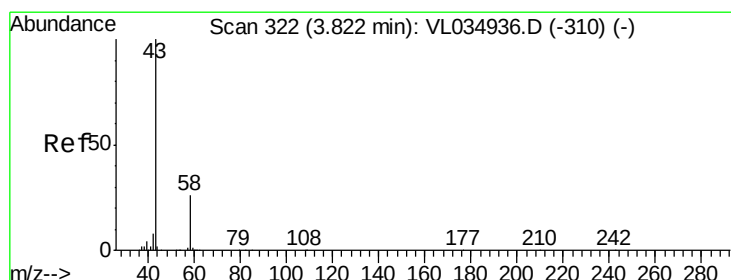
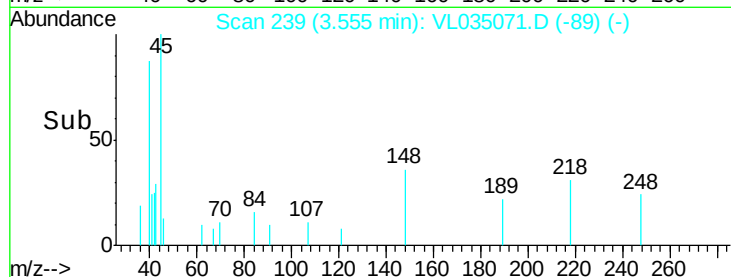
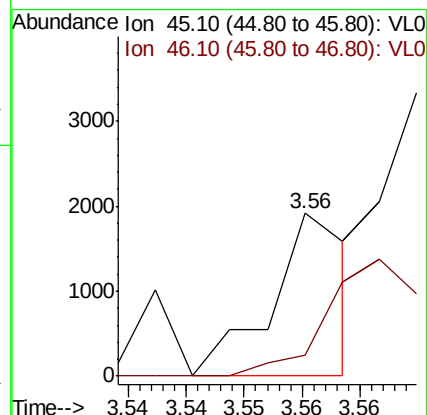
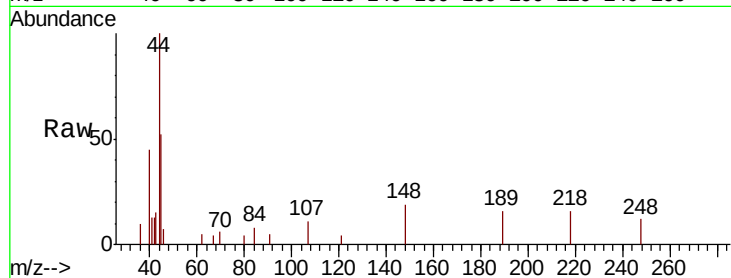
ClientSampleId :

Tot Ion: 45 Resp: 887

Ion Ratio Lower Upper

45 100

46 0.0 14.3 57.3#



#15

Acetone

Concen: 9.463 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.02 min

Lab File: VL035071.D

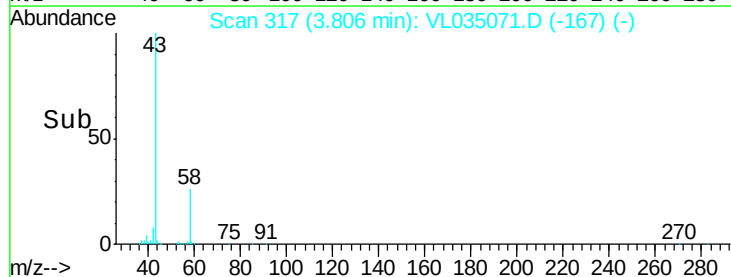
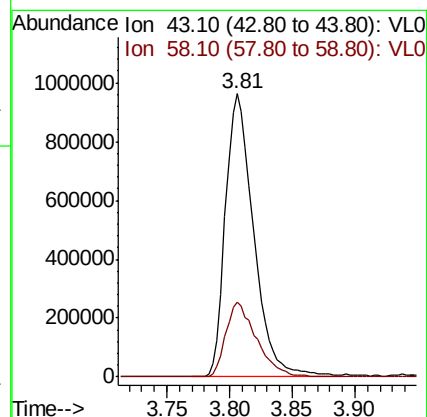
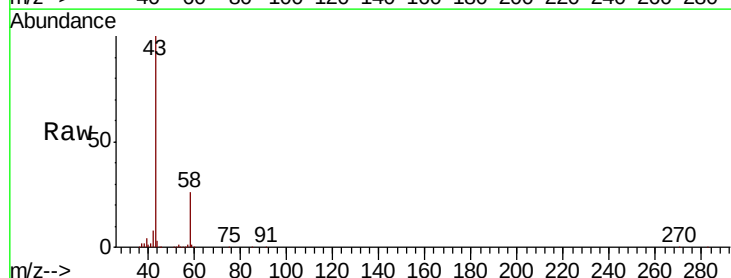
Acq: 20 May 2020 8:34

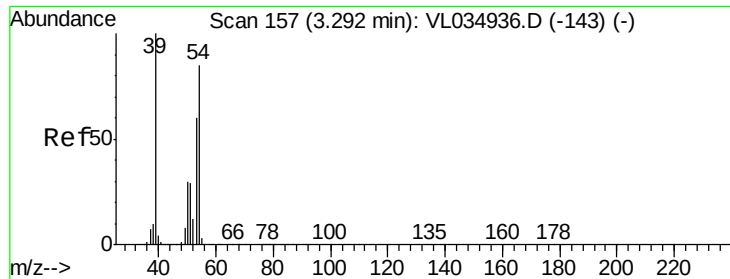
Tgt Ion: 43 Resp: 1503177

Ion Ratio Lower Upper

43 100

58 29.0 21.7 32.5

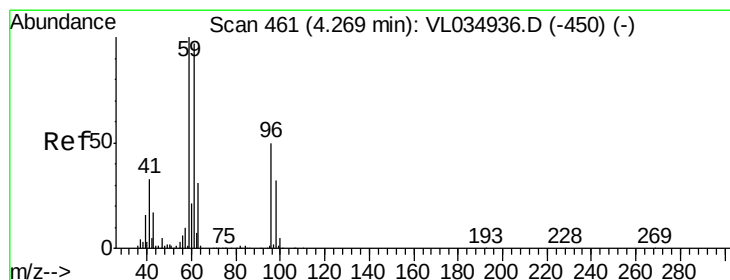
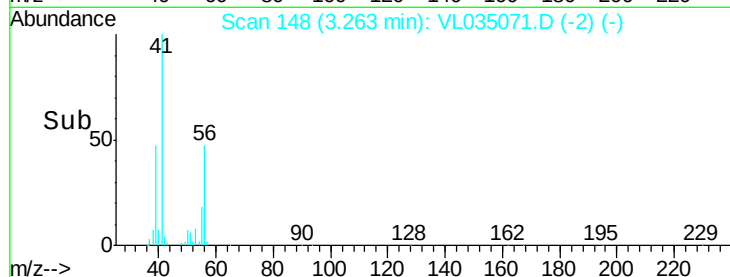
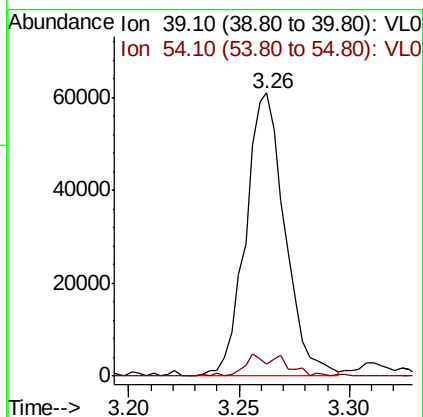
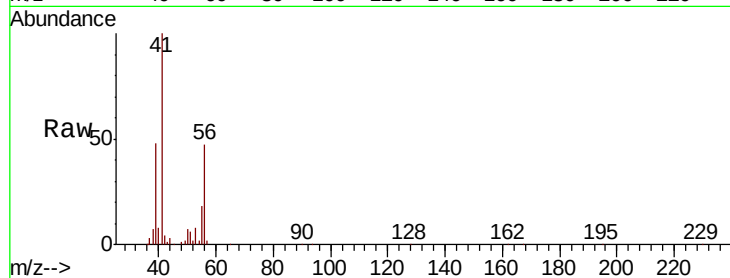




#16
1,3-Butadiene
Concen: 1.102 ppbv
RT: 3.26 min Scan# 148
Delta R.T. -0.03 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

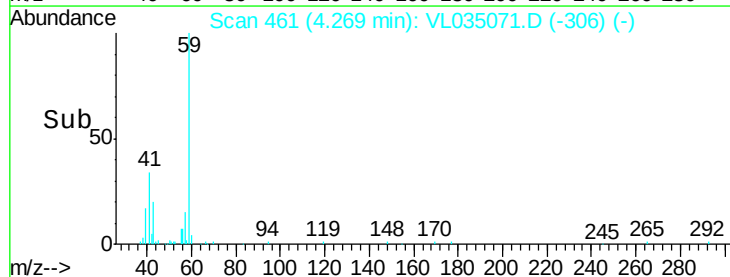
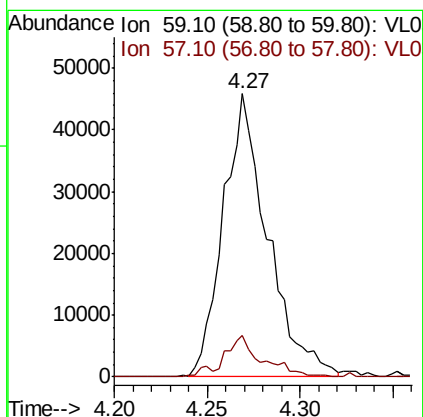
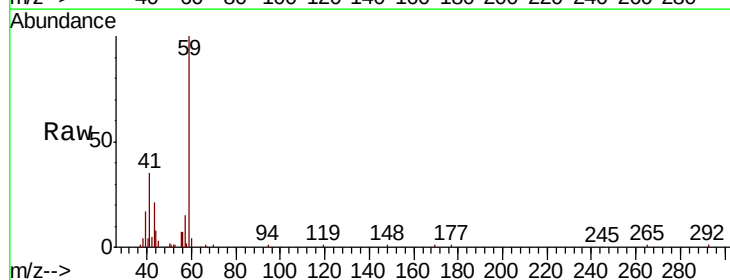
Instrument :
MSVOA_L
ClientSampleId :

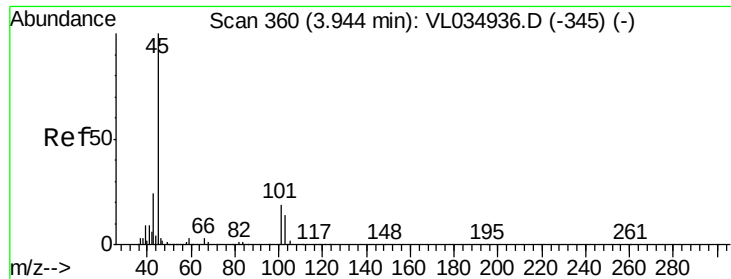
Tot Ion: 39 Resp: 75294
Ion Ratio Lower Upper
39 100
54 8.1 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 0.538 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

Tgt Ion: 59 Resp: 76007
Ion Ratio Lower Upper
59 100
57 12.7 8.7 13.1

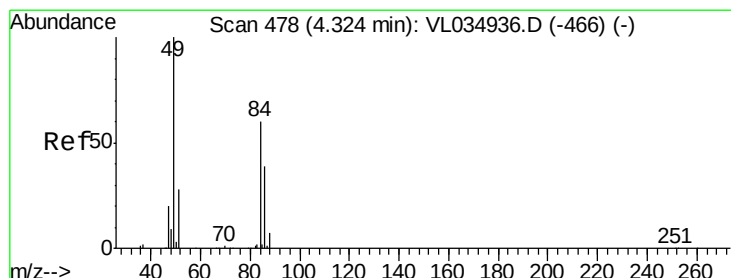
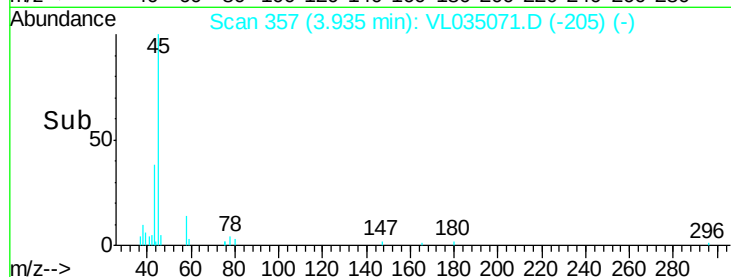
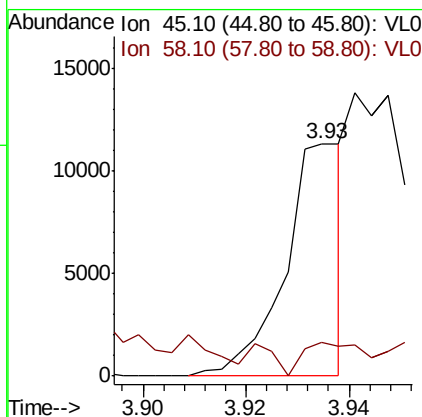
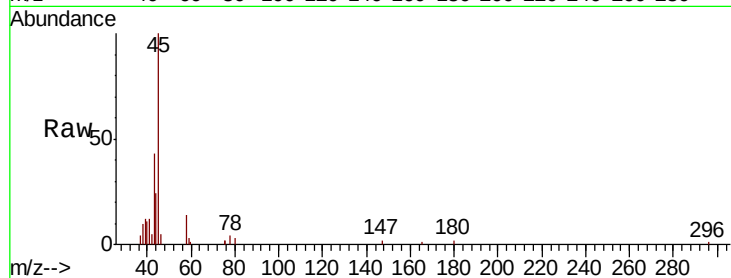




#19
Isopropyl Alcohol
Concen: 0.083 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.01 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

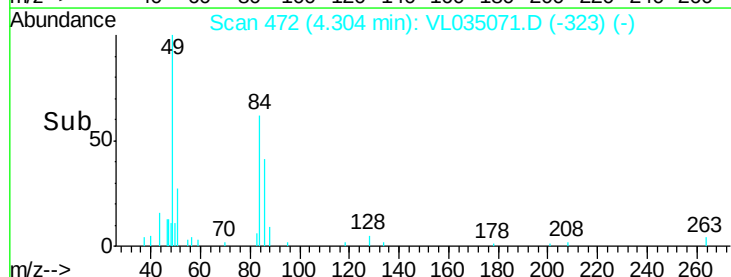
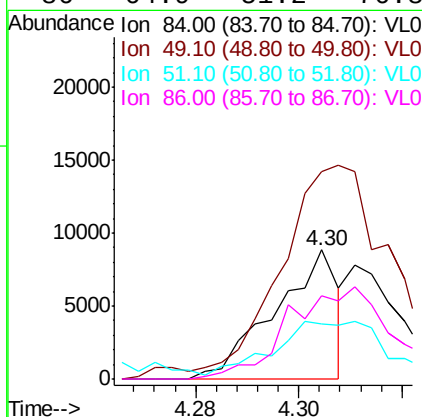
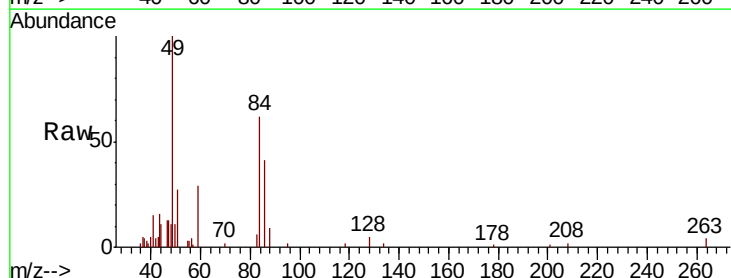
Instrument :
MSVOA_L
ClientSampleId :

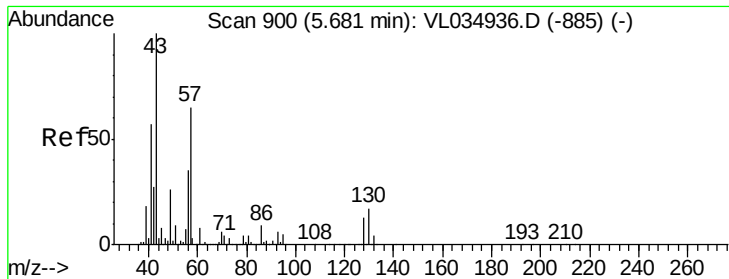
Tot Ion: 45 Resp: 8809
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#



#20
Methylene Chloride
Concen: 0.143 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.02 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

Tgt Ion: 84 Resp: 7535
Ion Ratio Lower Upper
84 100
49 154.8 132.5 198.7
51 35.3 38.4 57.6#
86 64.9 51.2 76.8





#26

Hexane

Concen: 0.092 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 10660

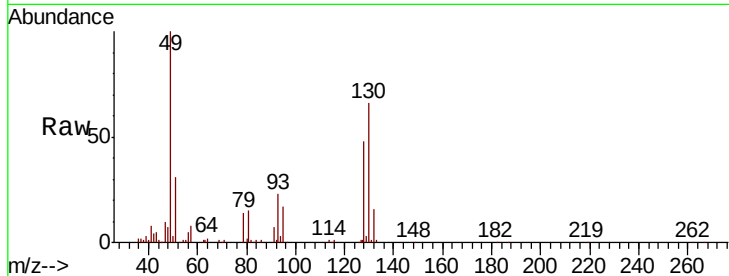
Ion Ratio Lower Upper

57 100

41 215.1 72.7 109.1#

43 126.2 182.1 273.1#

56 97.4 42.2 63.2#

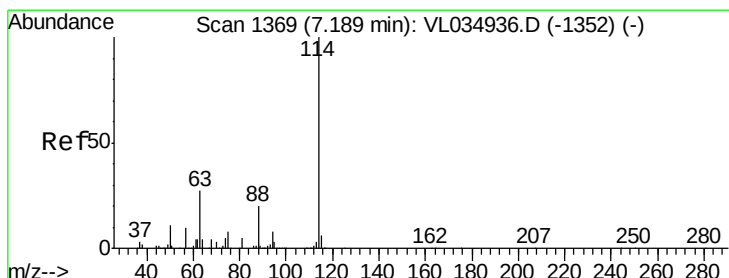
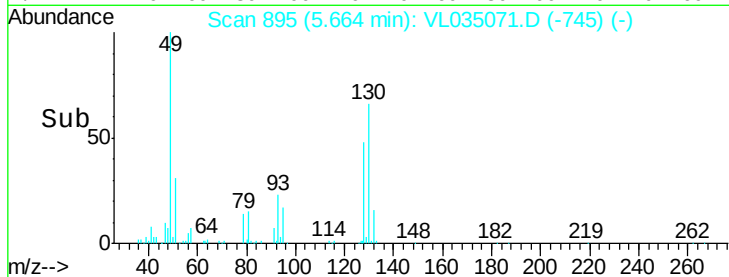
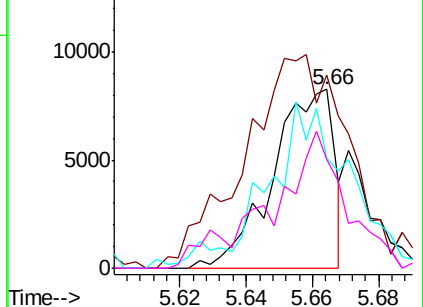


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.16 min Scan# 1361

Delta R.T. -0.03 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

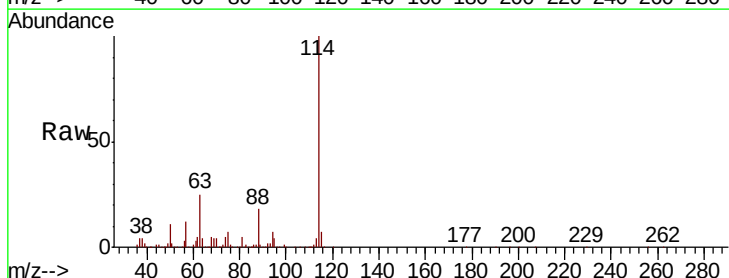
Tgt Ion: 114 Resp: 2776403

Ion Ratio Lower Upper

114 100

63 26.9 22.2 33.4

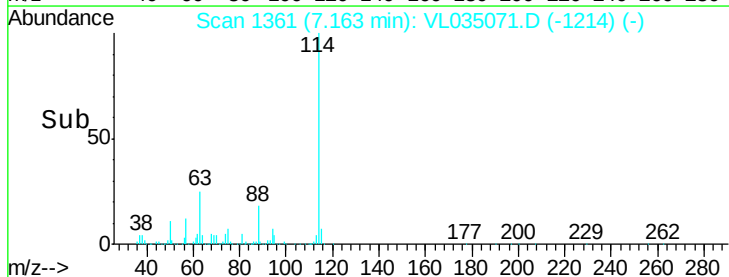
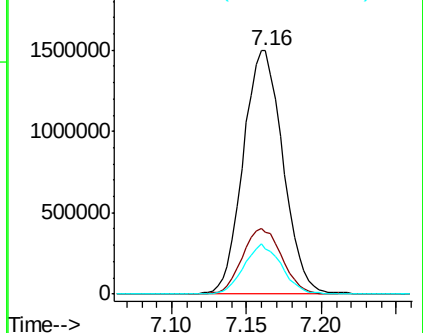
88 19.4 15.5 23.3

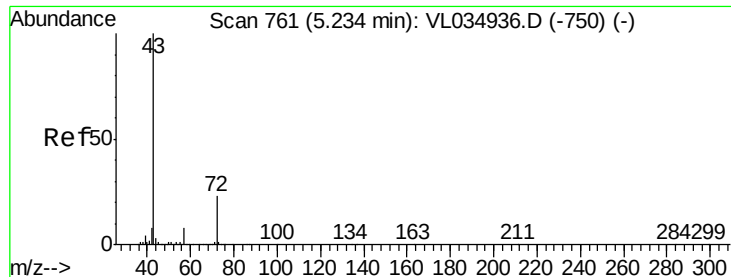


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

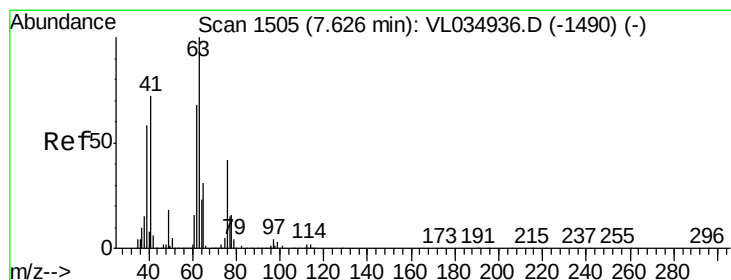
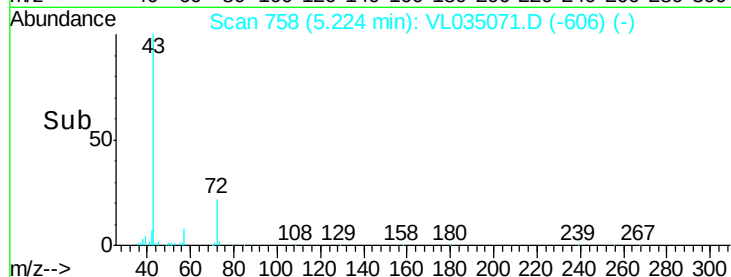
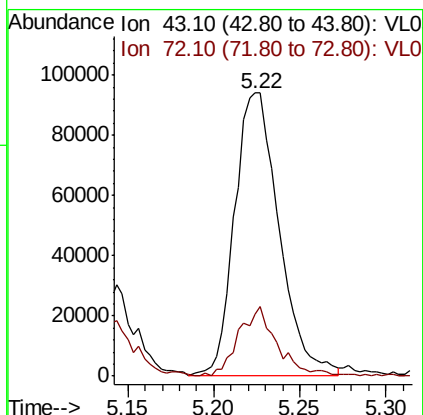
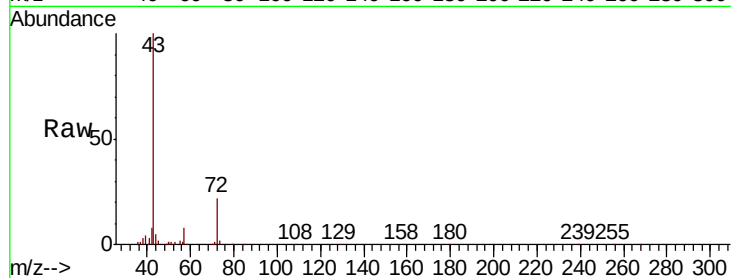




#34
2-Butanone
Concen: 0.982 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

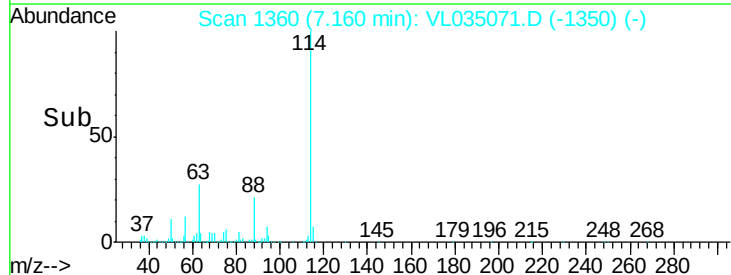
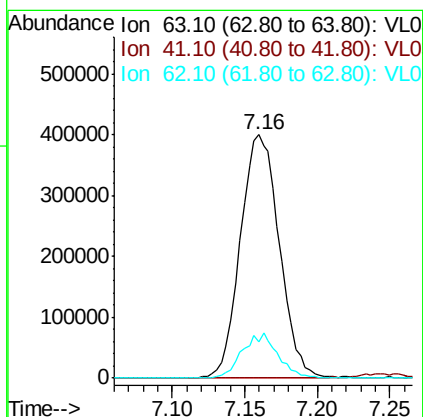
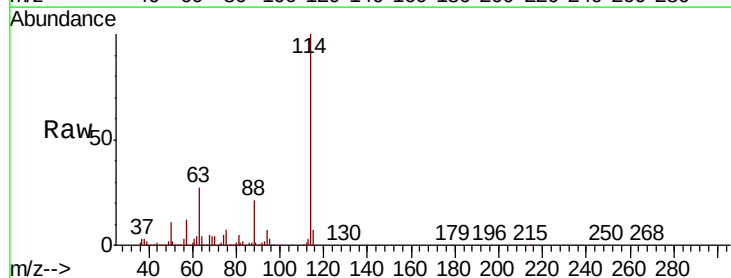
Instrument :
MSVOA_L
ClientSampled :

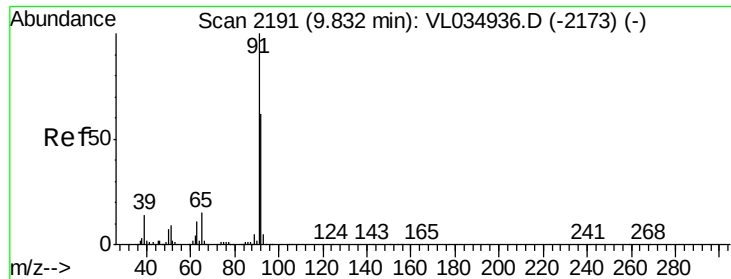
Tot Ion: 43 Resp: 169425
Ion Ratio Lower Upper
43 100
72 21.7 18.0 27.0



#39
1,2-Dichloropropane
Concen: 8.137 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.47 min
Lab File: VL035071.D
Acq: 20 May 2020 8:34

Tgt Ion: 63 Resp: 746629
Ion Ratio Lower Upper
63 100
41 0.2 57.8 86.8#
62 15.1 54.2 81.2#





#53

Toluene

Concen: 0.032 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

Instrument :

MSVOA_L

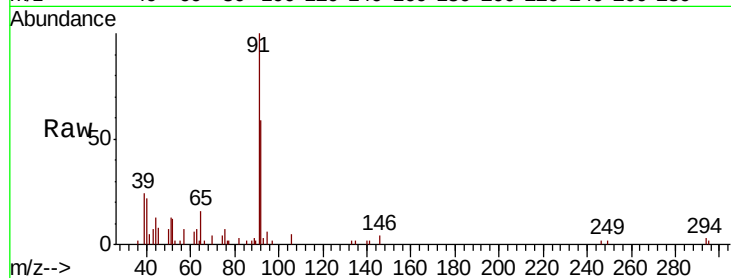
ClientSampleId :

Tot Ion: 91 Resp: 7863

Ion Ratio Lower Upper

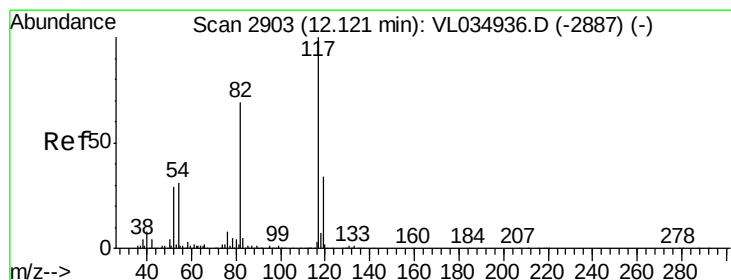
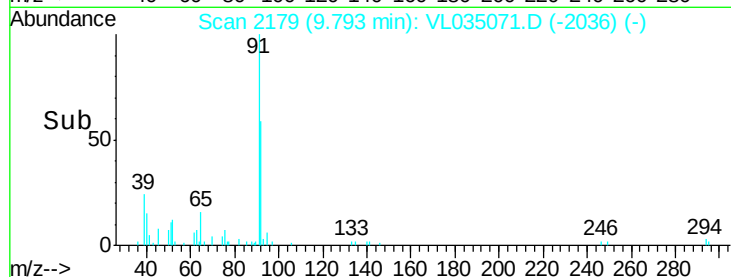
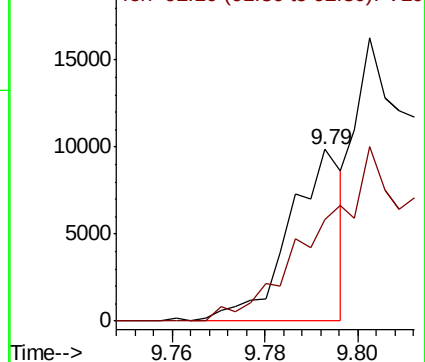
91 100

92 0.0 48.6 73.0#



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: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

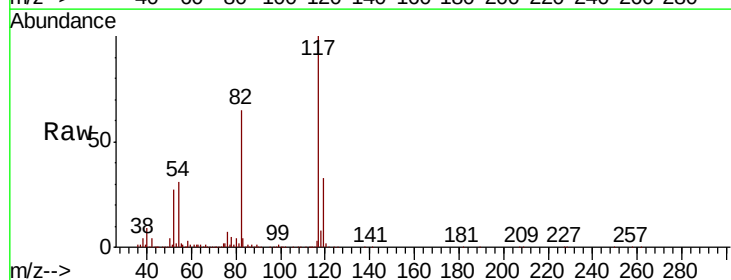
Tgt Ion: 117 Resp: 2621350

Ion Ratio Lower Upper

117 100

82 68.3 53.1 79.7

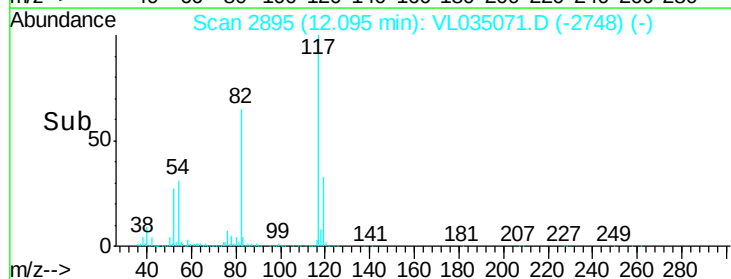
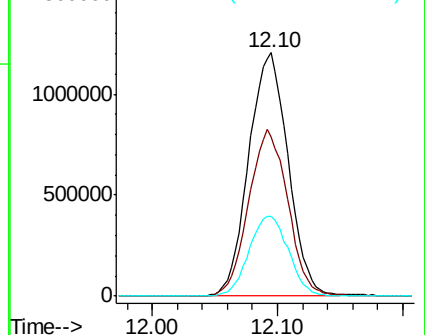
119 33.3 26.7 40.1

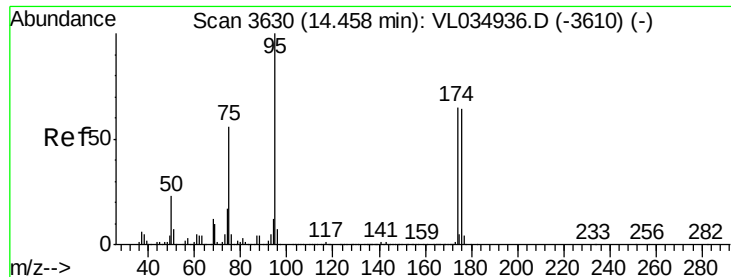


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.504 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.03 min

Lab File: VL035071.D

Acq: 20 May 2020 8:34

Instrument :

MSVOA_L

ClientSampleId :

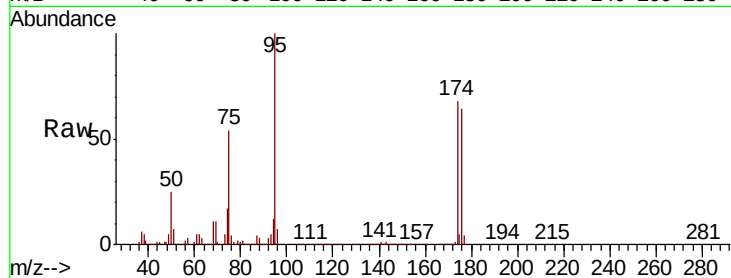
Tot Ion: 95 Resp: 2228754

Ion Ratio Lower Upper

95 100

174 65.7 51.5 77.3

175 4.9 3.8 5.8



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

