

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035358.D
 Acq On : 6 Aug 2020 20:29
 Operator : SY/AP
 Sample : L3554-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:29:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1410020	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3509575	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3298790	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2743634	9.97	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%	

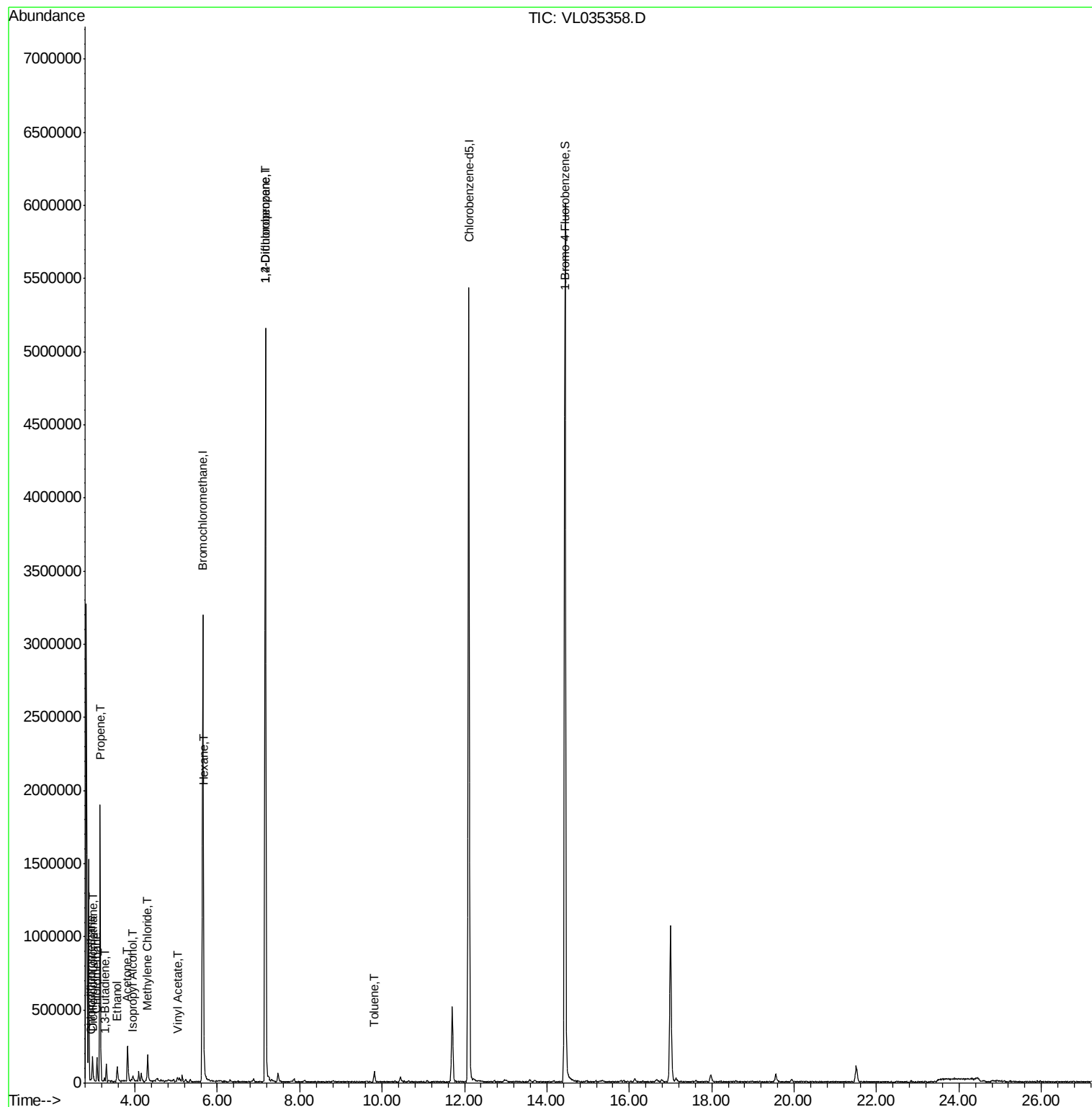
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	13324	0.071	ppbv	98
3) Chlorodifluoromethane	2.93	51	8153	0.051	ppbv	91
4) Chloromethane	3.09	50	5407	0.059	ppbv #	78
9) Propene	3.16	41	519061	9.050	ppbv	92
13) Ethanol	3.57	45	95215	4.813	ppbv	95
15) Acetone	3.82	43	220137	1.099	ppbv	97
16) 1,3-Butadiene	3.26	39	5490	0.071	ppbv #	33
19) Isopropyl Alcohol	3.93	45	7095	0.056	ppbv #	93
20) Methylene Chloride	4.31	84	60169	0.737	ppbv	97
23) Vinyl Acetate	5.04	43	9175	0.048	ppbv #	47
26) Hexane	5.67	57	16042	0.122	ppbv #	37
39) 1,2-Dichloropropane	7.17	63	915678	9.544	ppbv #	22
53) Toluene	9.80	91	14969	0.058	ppbv #	20

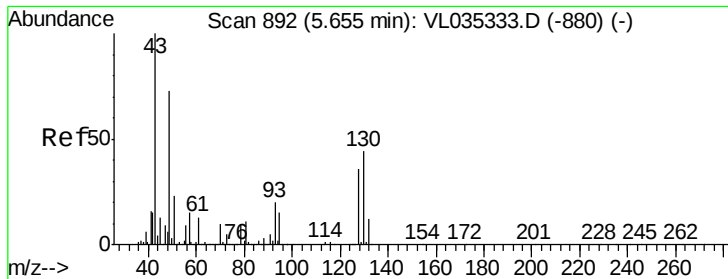
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 07 06:29:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
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QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :
MSVOA_L
ClientSampleId :

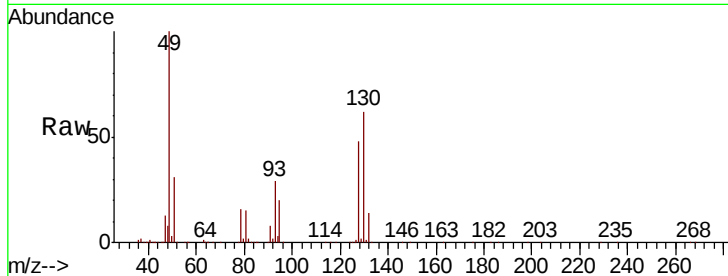
Tot Ion: 49 Resp: 1410020

Ion Ratio Lower Upper

49 100

128 50.0 25.4 76.0

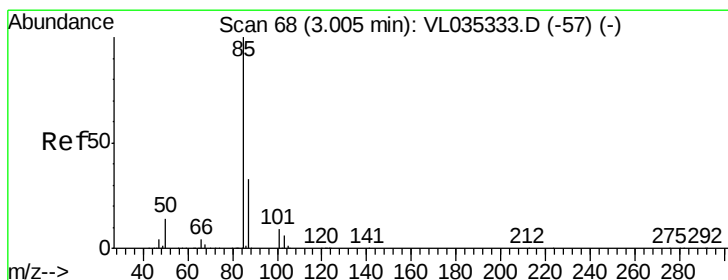
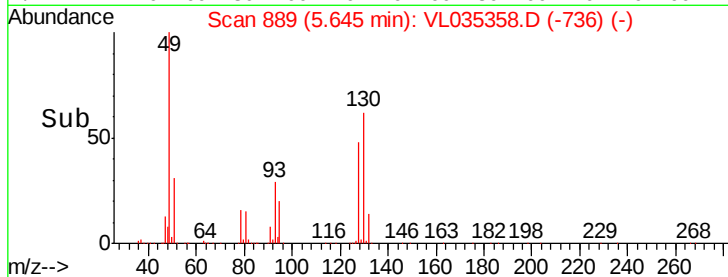
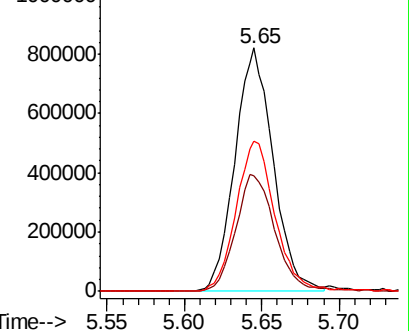
130 63.8 32.1 96.3



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



#2

Dichlorodifluoromethane

Concen: 0.071 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035358.D

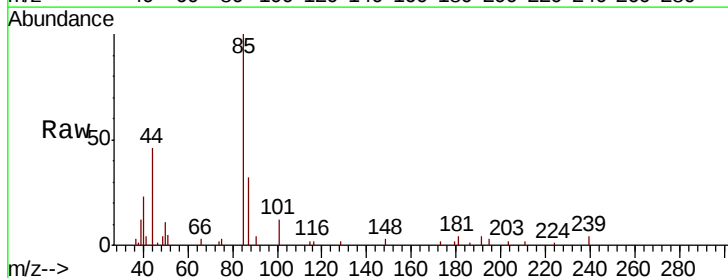
Acq: 6 Aug 2020 20:29

Tgt Ion: 85 Resp: 13324

Ion Ratio Lower Upper

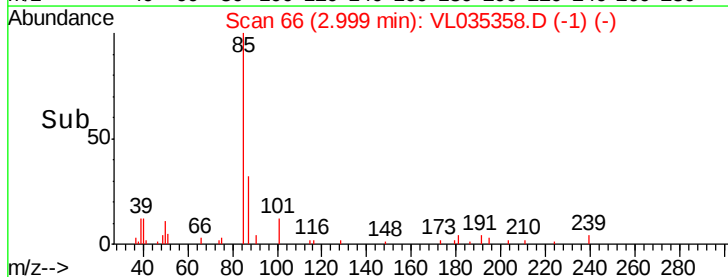
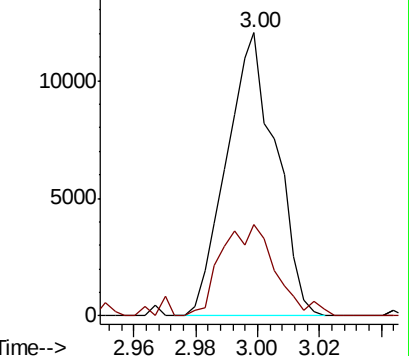
85 100

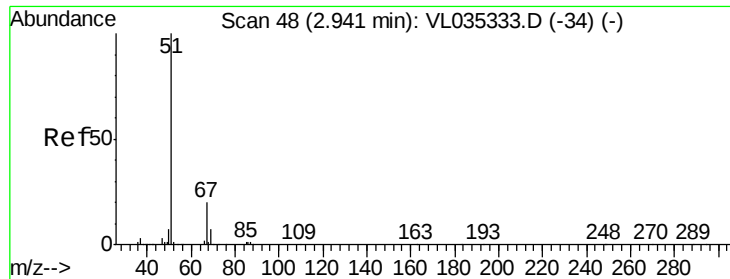
87 32.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

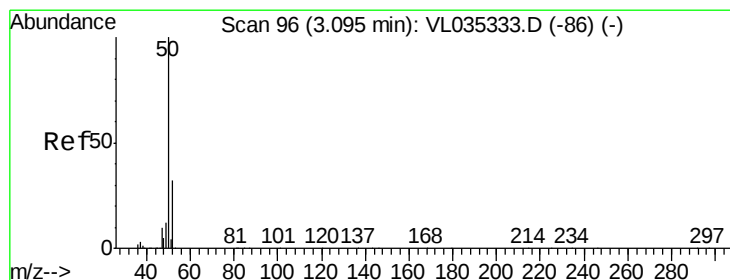
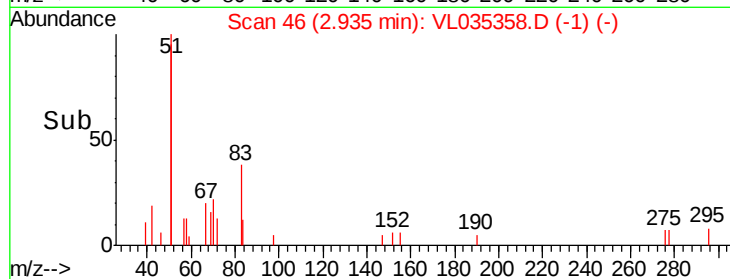
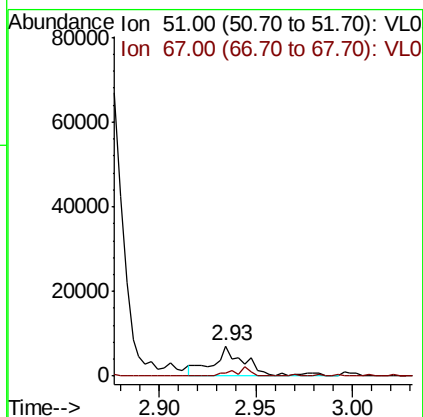
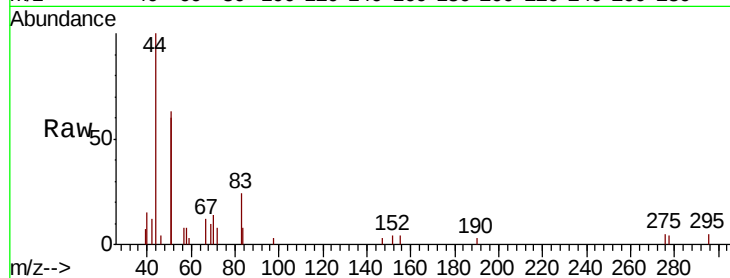




#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 2.93 min Scan# 46
Delta R.T. -0.01 min
Lab File: VL035358.D
Acq: 6 Aug 2020 20:29

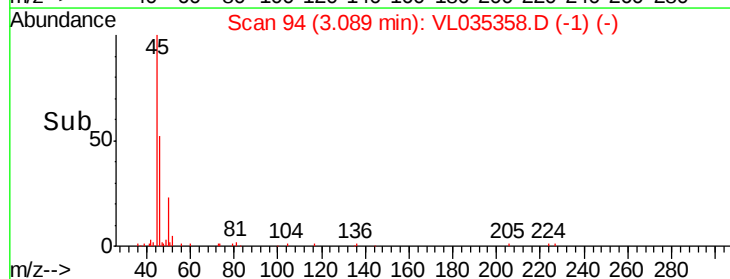
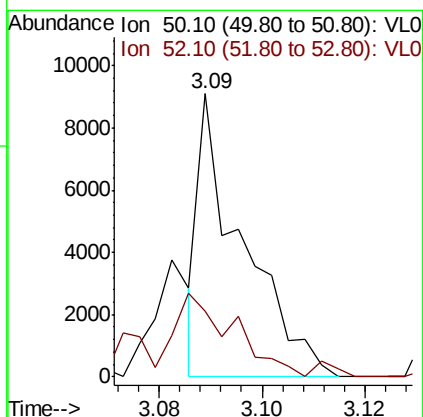
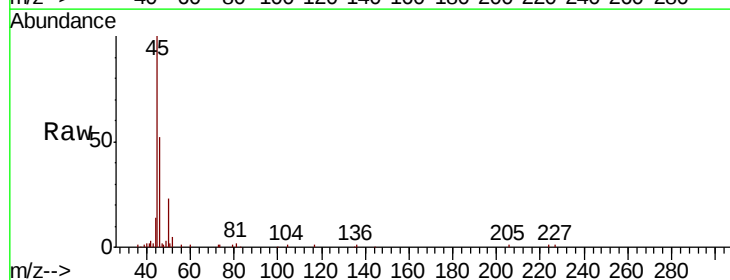
Instrument :
MSVOA_L
ClientSampleId :

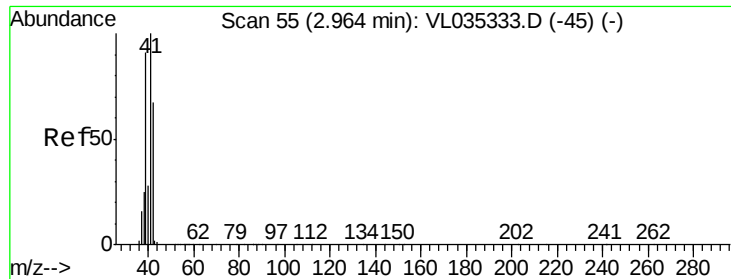
Tot Ion: 51 Resp: 8153
Ion Ratio Lower Upper
51 100
67 16.8 16.6 25.0



#4
Chloromethane
Concen: 0.059 ppbv
RT: 3.09 min Scan# 94
Delta R.T. -0.01 min
Lab File: VL035358.D
Acq: 6 Aug 2020 20:29

Tgt Ion: 50 Resp: 5407
Ion Ratio Lower Upper
50 100
52 20.3 26.0 39.0#





#9

Propene

Concen: 9.050 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.19 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :

MSVOA_L

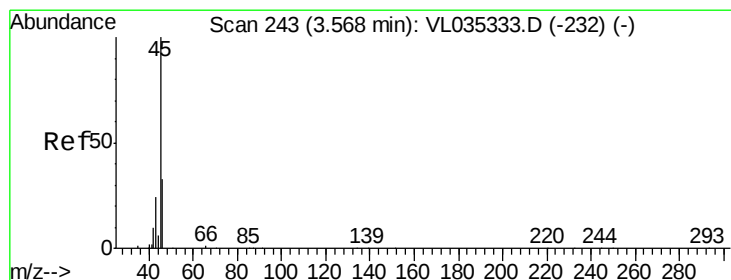
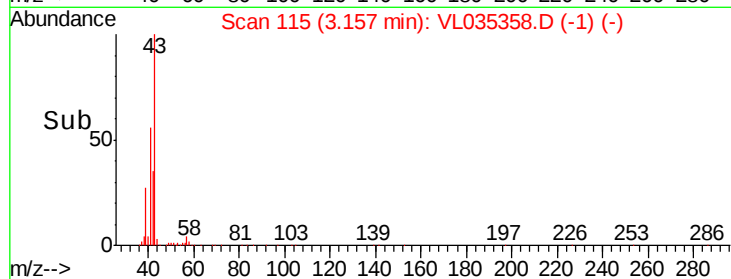
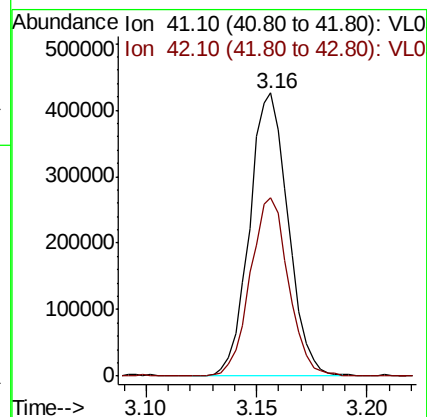
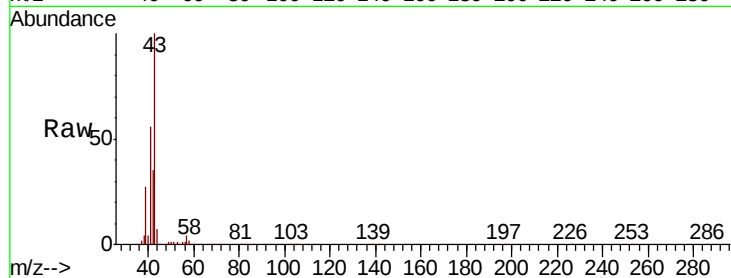
ClientSampleId :

Tot Ion: 41 Resp: 519061

Ion Ratio Lower Upper

41 100

42 62.6 55.3 82.9



#13

Ethanol

Concen: 4.813 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035358.D

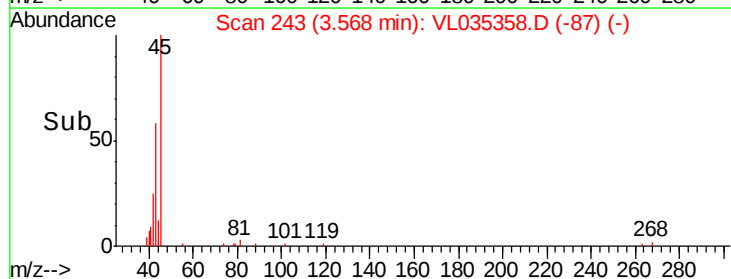
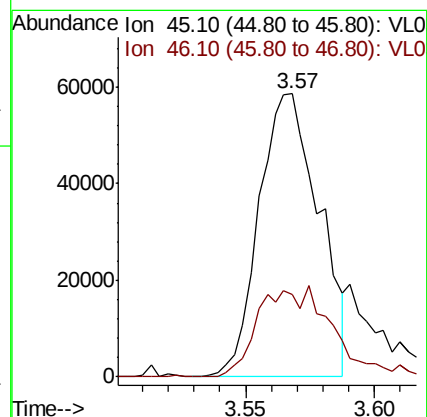
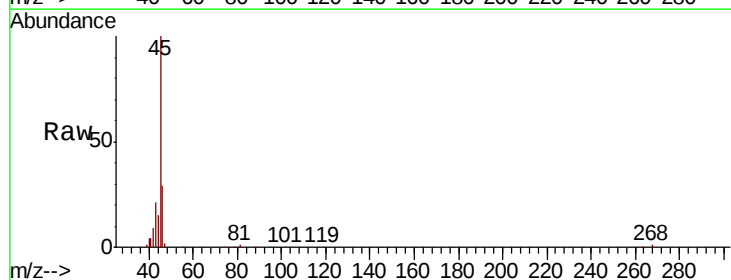
Acq: 6 Aug 2020 20:29

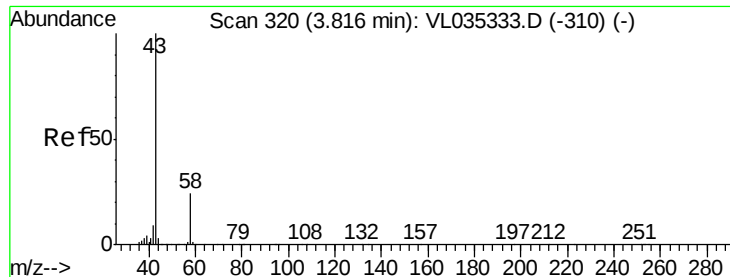
Tgt Ion: 45 Resp: 95215

Ion Ratio Lower Upper

45 100

46 41.0 15.2 61.0





#15

Acetone

Concen: 1.099 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

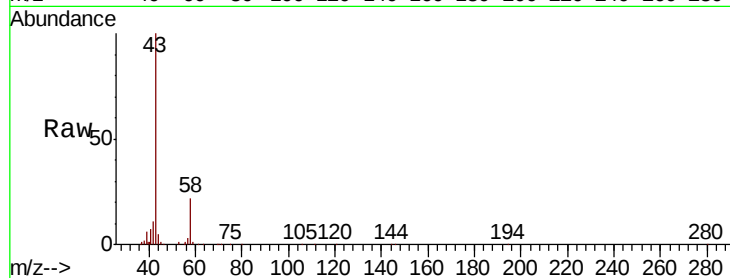
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 220137

Ion Ratio Lower Upper

43 100

58 27.5 21.0 31.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.82

150000

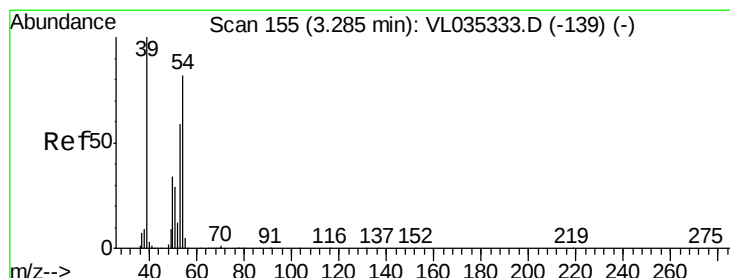
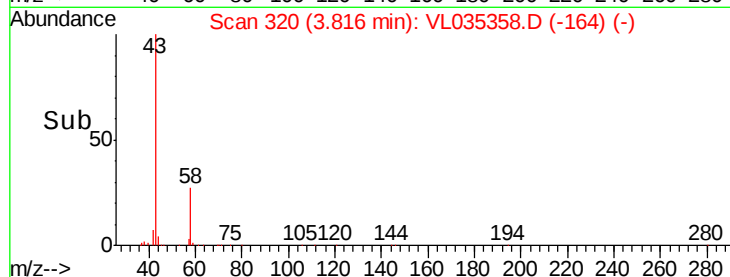
100000

50000

0

Time-->

3.80 3.85



#16

1,3-Butadiene

Concen: 0.071 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.03 min

Lab File: VL035358.D

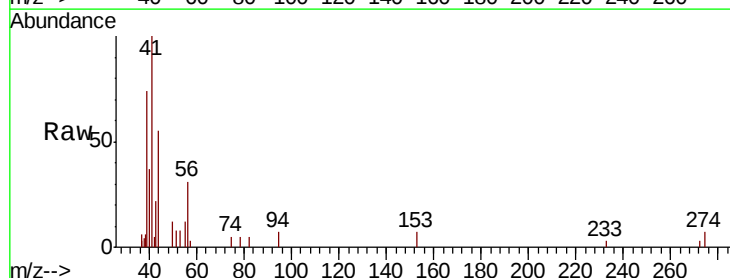
Acq: 6 Aug 2020 20:29

Tgt Ion: 39 Resp: 5490

Ion Ratio Lower Upper

39 100

54 21.1 64.4 96.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.26

6000

5000

4000

3000

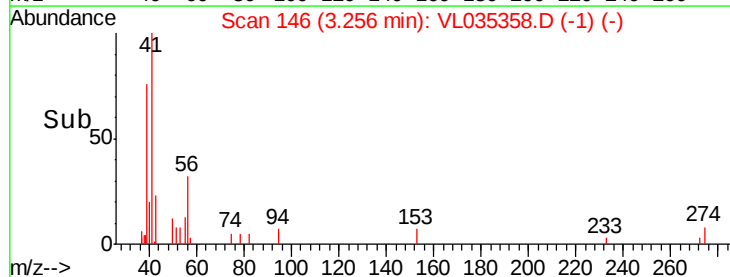
2000

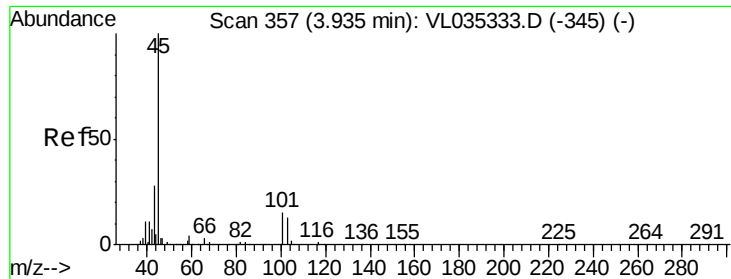
1000

0

Time-->

3.22 3.24 3.26 3.28





#19

Isopropyl Alcohol

Concen: 0.056 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :

MSVOA_L

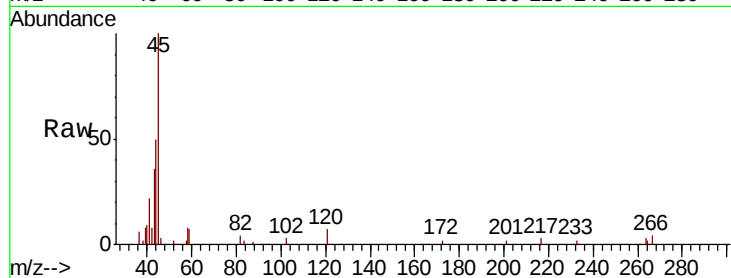
ClientSampleId :

Tot Ion: 45 Resp: 7095

Ion Ratio Lower Upper

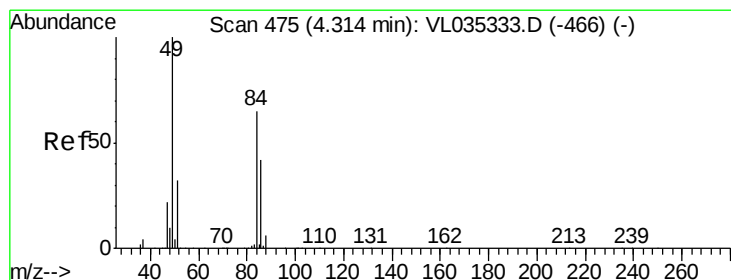
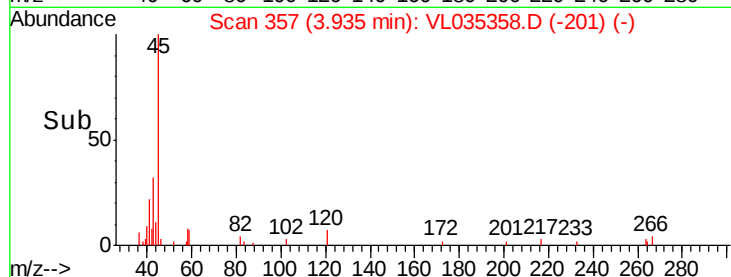
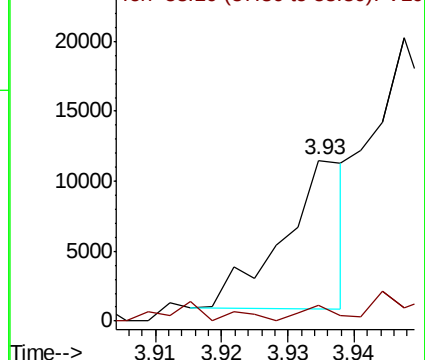
45 100

58 0.0 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.737 ppbv

RT: 4.31 min Scan# 474

Delta R.T. -0.00 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Tgt Ion: 84 Resp: 60169

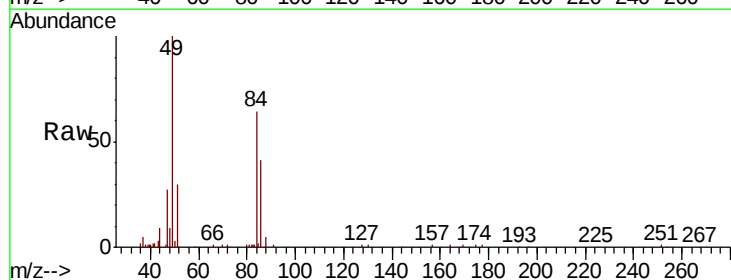
Ion Ratio Lower Upper

84 100

49 155.2 122.8 184.2

51 46.0 40.1 60.1

86 61.9 51.7 77.5

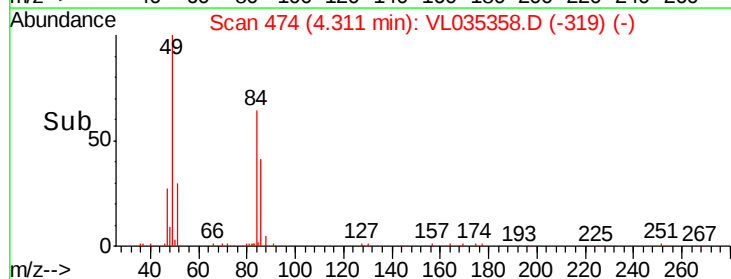
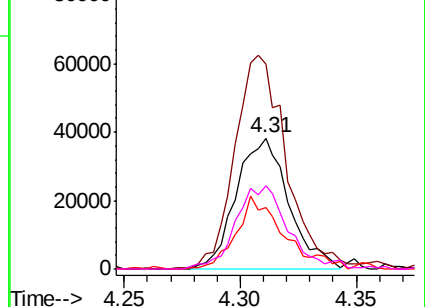


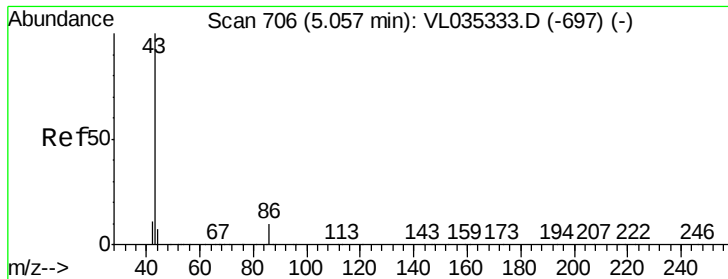
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.048 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.02 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 9175

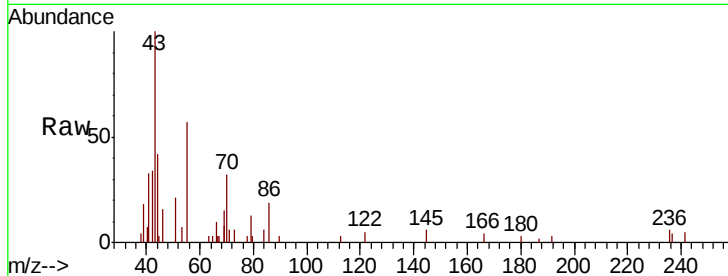
Ion Ratio Lower Upper

43 100

86 28.4 6.9 10.3#

42 0.0 8.8 13.2#

44 38.0 5.0 7.6#

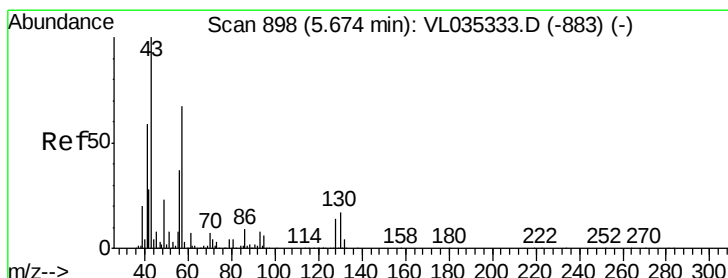
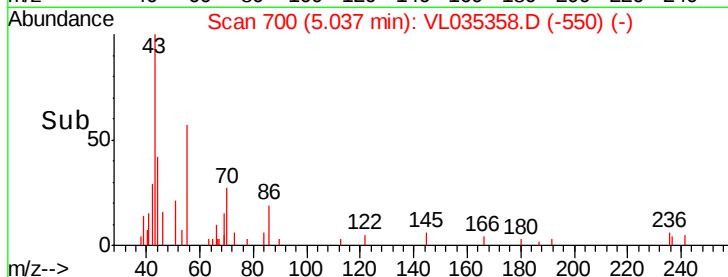
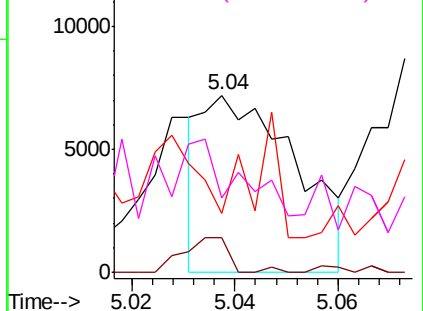


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#26

Hexane

Concen: 0.122 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Tgt Ion: 57 Resp: 16042

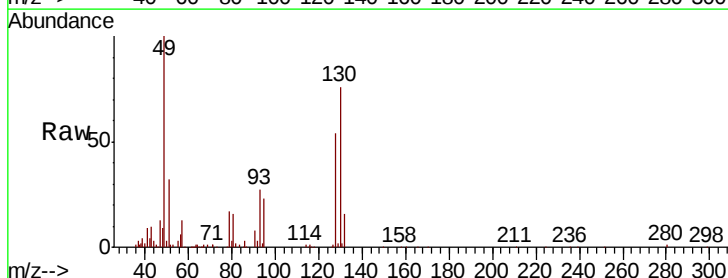
Ion Ratio Lower Upper

57 100

41 167.9 75.2 112.8#

43 138.6 180.6 270.8#

56 111.2 43.0 64.6#

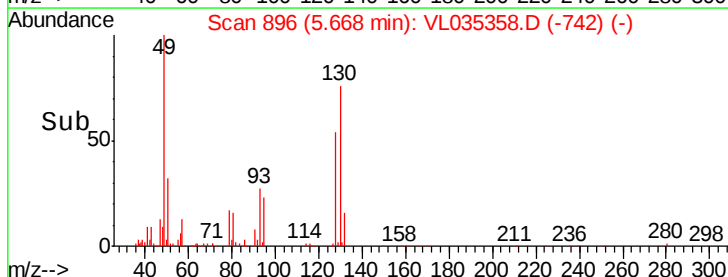
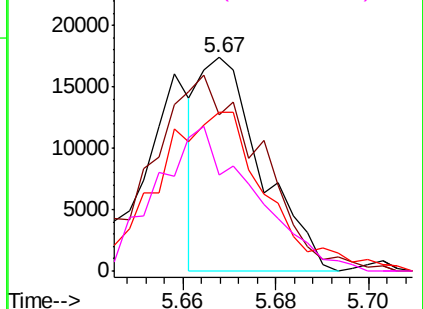


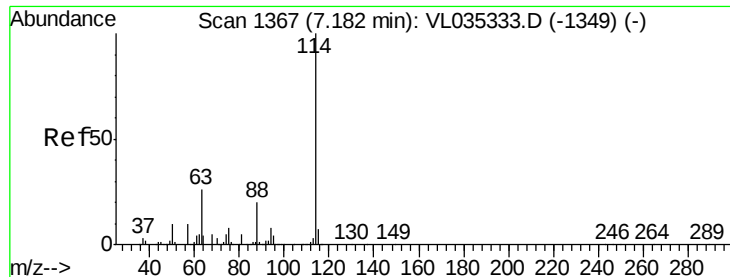
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

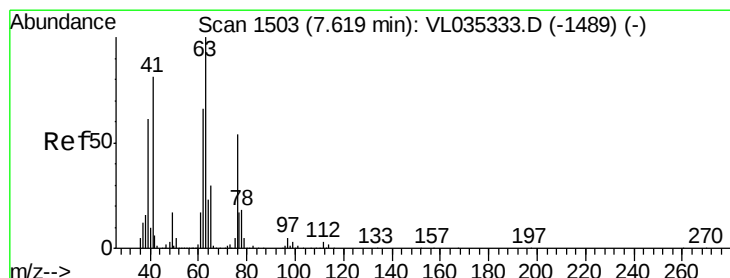
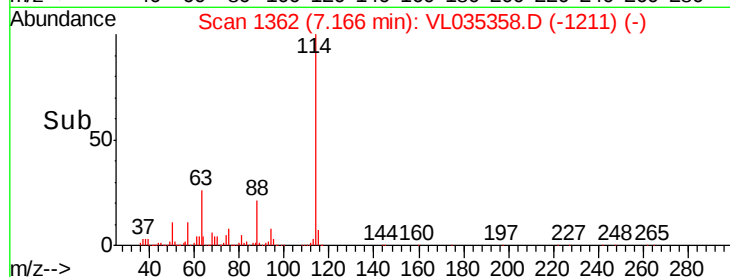
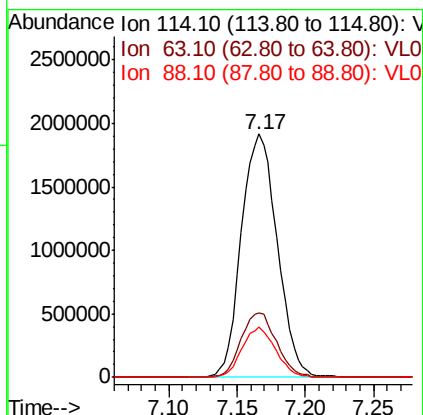
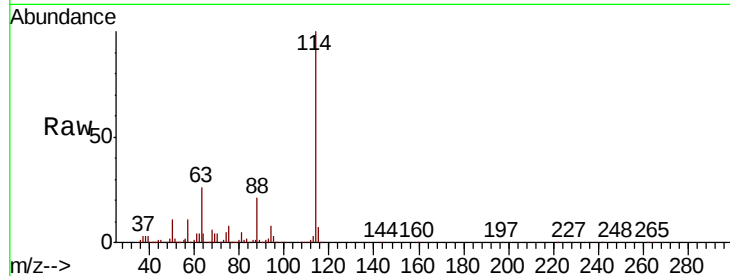




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL035358.D
 Acq: 6 Aug 2020 20:29

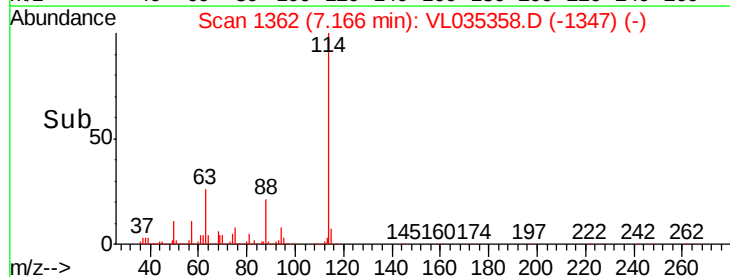
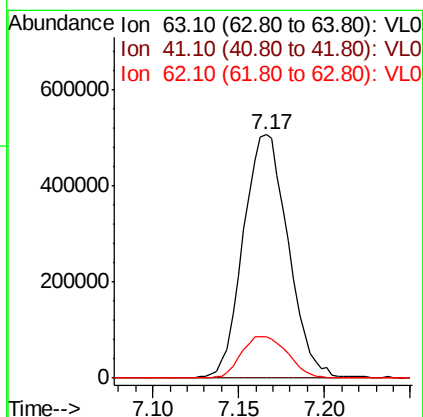
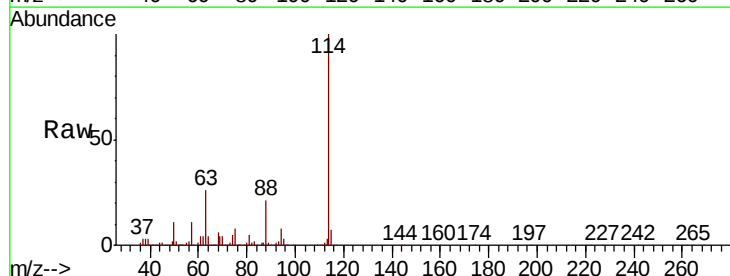
Instrument :
 MSVOA_L
 ClientSampleId :

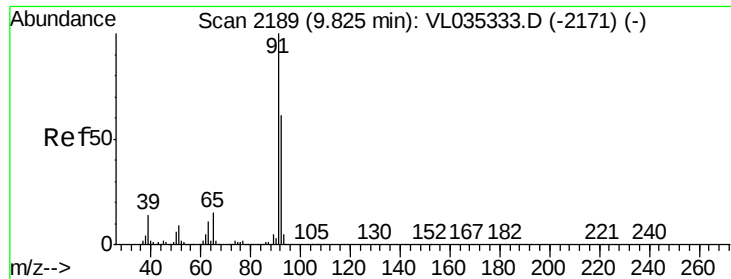
Tot Ion:114 Resp: 3509575
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.3 31.9
 88 19.4 15.3 22.9



#39
 1,2-Dichloropropane
 Concen: 9.544 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL035358.D
 Acq: 6 Aug 2020 20:29

Tgt Ion: 63 Resp: 915678
 Ion Ratio Lower Upper
 63 100
 41 0.2 64.4 96.6#
 62 16.9 52.6 78.8#





#53

Toluene

Concen: 0.058 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.03 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :

MSVOA_L

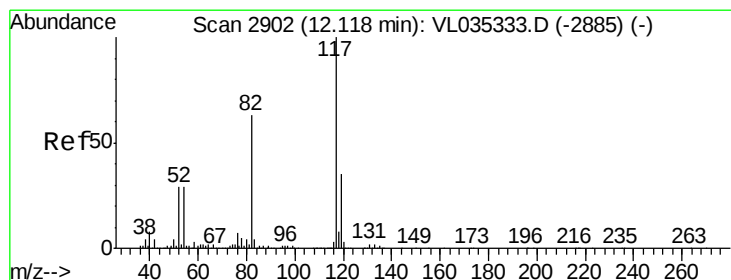
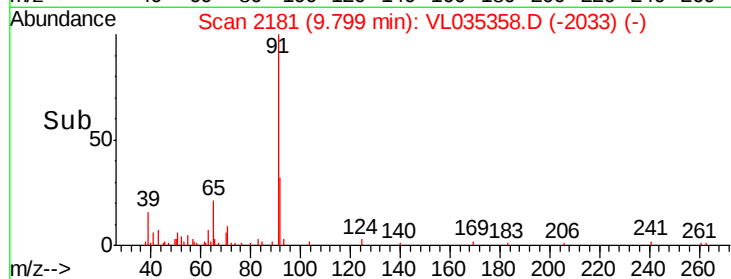
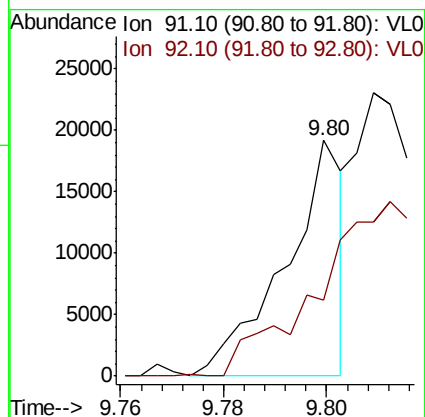
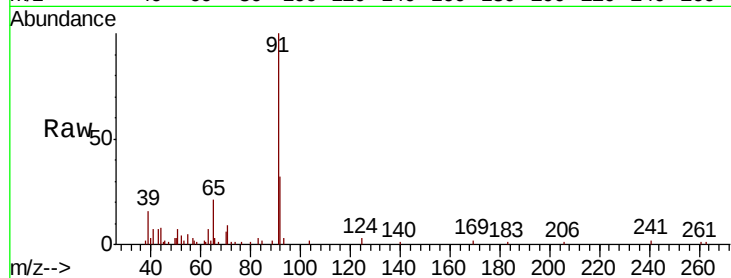
ClientSampleId :

Tot Ion: 91 Resp: 14969

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

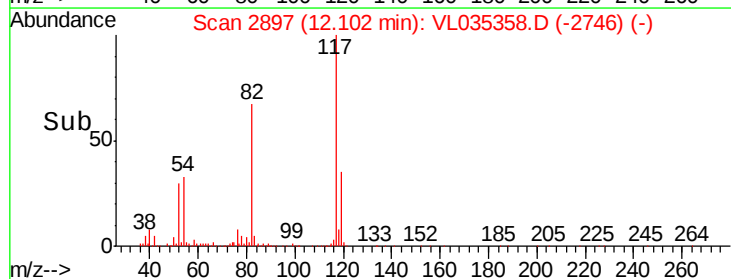
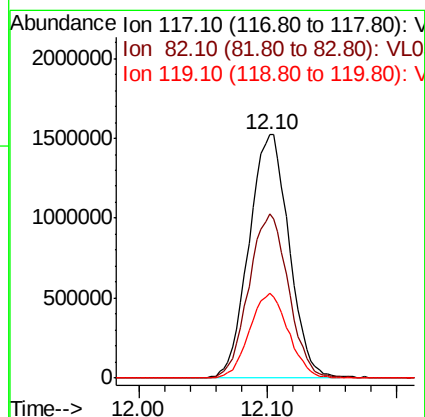
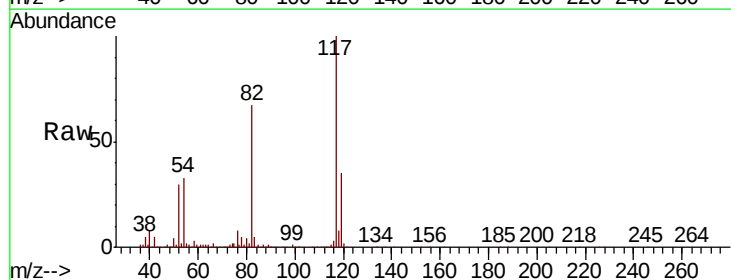
Tgt Ion: 117 Resp: 3298790

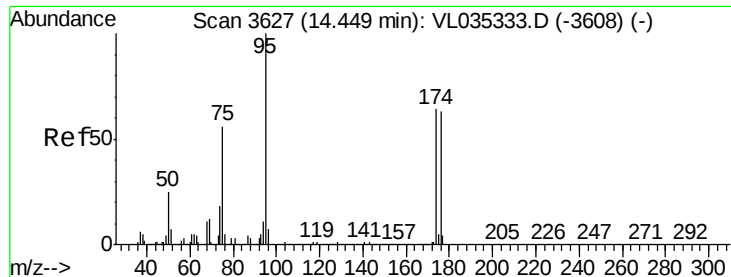
Ion Ratio Lower Upper

117 100

82 67.3 51.0 76.4

119 33.9 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.974 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL035358.D

Acq: 6 Aug 2020 20:29

Instrument :

MSVOA_L

ClientSampleId :

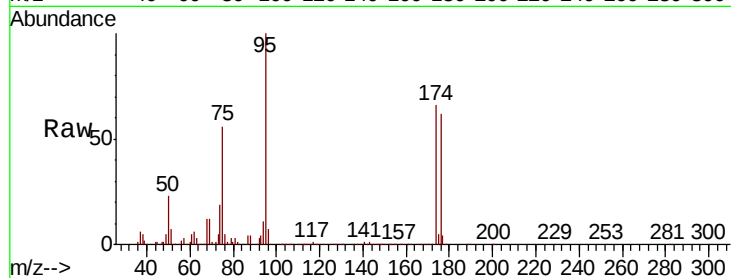
Tot Ion: 95 Resp: 2743634

Ion Ratio Lower Upper

95 100

174 67.7 53.5 80.3

175 5.0 4.2 6.2



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

