

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035360.D
 Acq On : 6 Aug 2020 21:48
 Operator : SY/AP
 Sample : L3554-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:30:07 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	5.64	49	1343362	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3310390	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3156146	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2606966	9.91	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

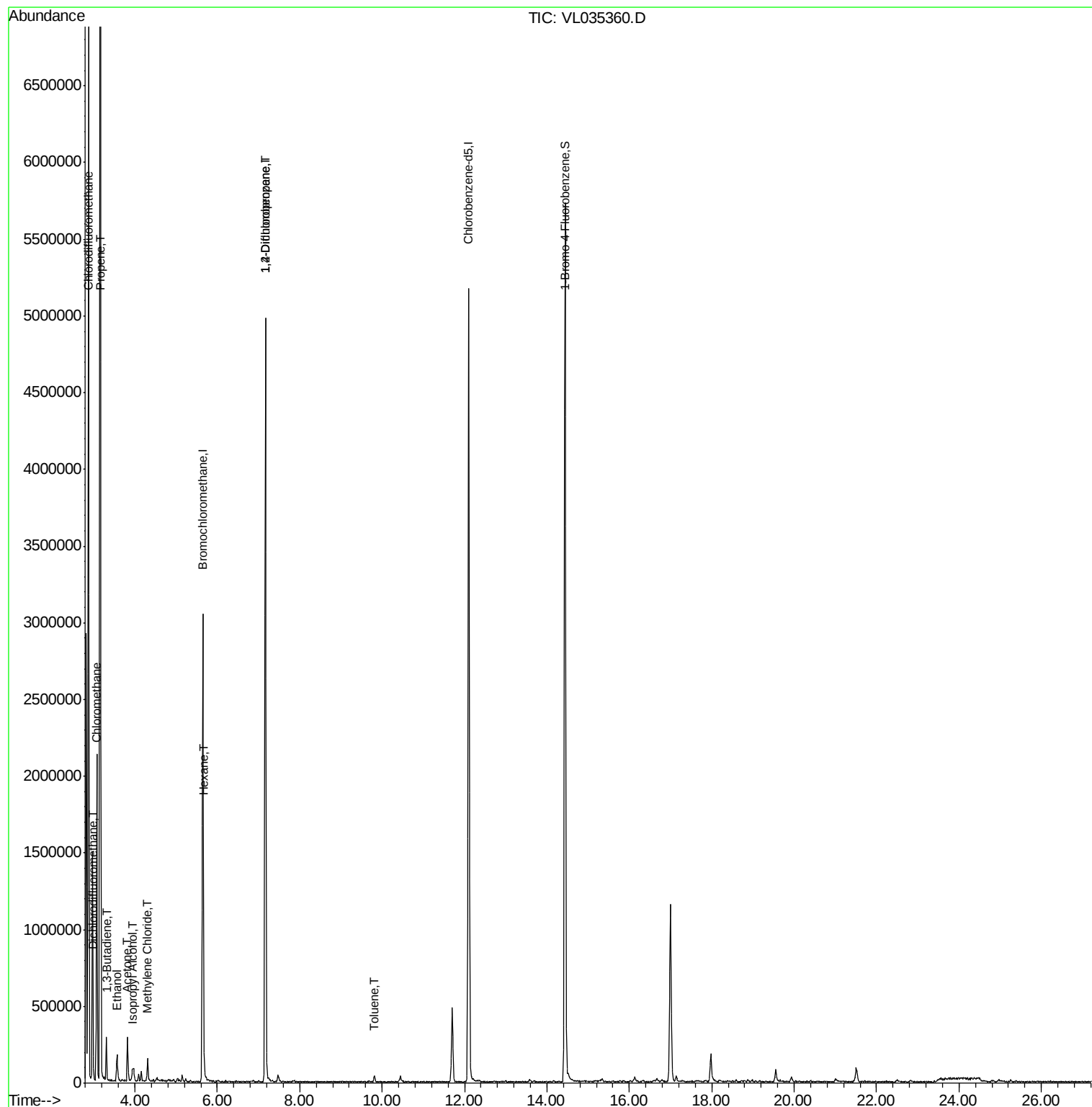
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.99	85	5730	0.032	ppbv	89
3) Chlorodifluoromethane	2.87	51	750392	4.893	ppbv #	56
4) Chloromethane	3.09	50	3607	0.042	ppbv #	88
9) Propene	3.16	41	4685342	85.745	ppbv	99
13) Ethanol	3.56	45	146091	7.752	ppbv	86
15) Acetone	3.82	43	264718	1.388	ppbv	94
16) 1,3-Butadiene	3.31	39	35478	0.483	ppbv #	15
19) Isopropyl Alcohol	3.93	45	21757	0.180	ppbv #	47
20) Methylene Chloride	4.31	84	47261	0.608	ppbv #	82
26) Hexane	5.67	57	16915	0.135	ppbv #	50
39) 1,2-Dichloropropane	7.17	63	877347	9.695	ppbv #	23
53) Toluene	9.82	91	28437	0.117	ppbv	94

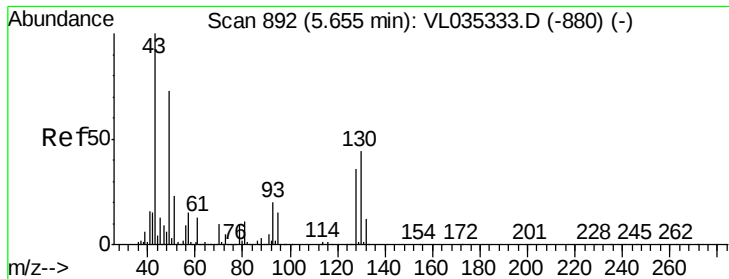
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :

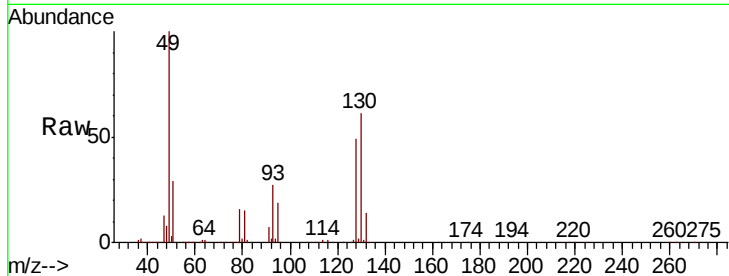
Tot Ion: 49 Resp: 1343362

Ion Ratio Lower Upper

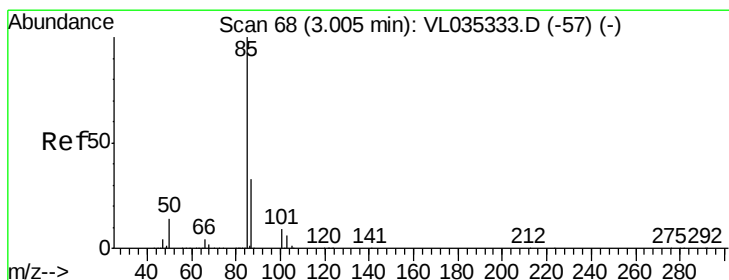
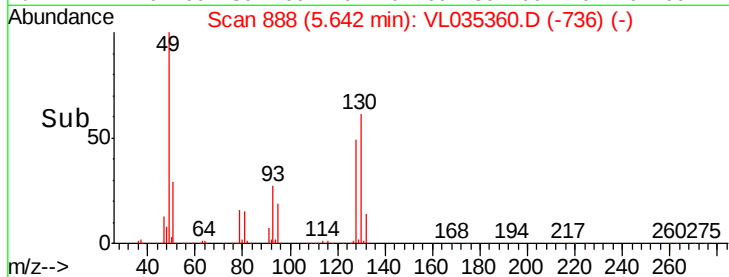
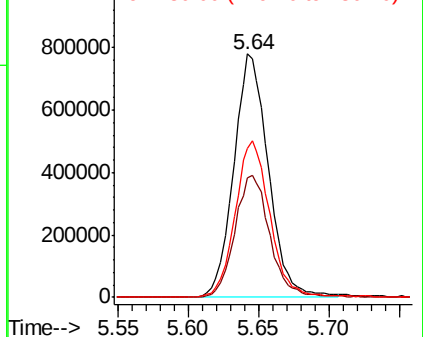
49 100

128 50.8 25.4 76.0

130 64.7 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: 0.032 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL035360.D

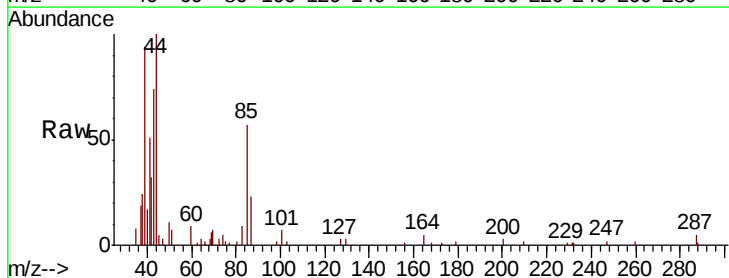
Acq: 6 Aug 2020 21:48

Tgt Ion: 85 Resp: 5730

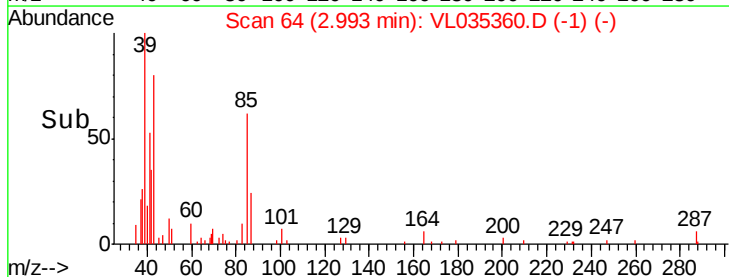
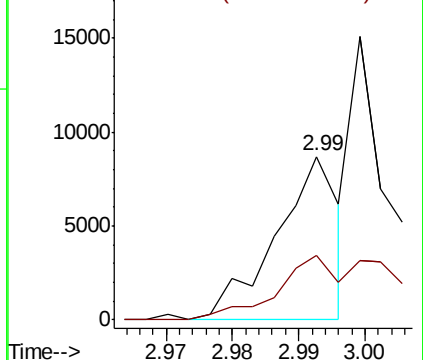
Ion Ratio Lower Upper

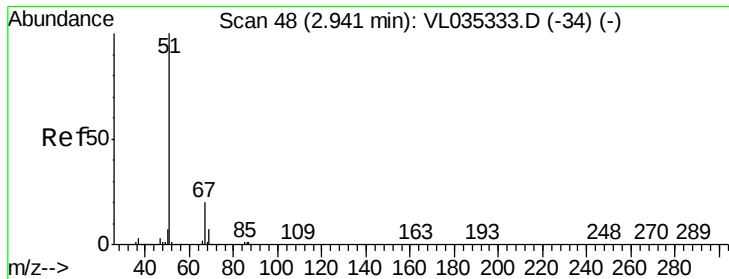
85 100

87 39.5 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: 4.893 ppbv

RT: 2.87 min Scan# 25

Delta R.T. -0.07 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Instrument :

MSVOA_L

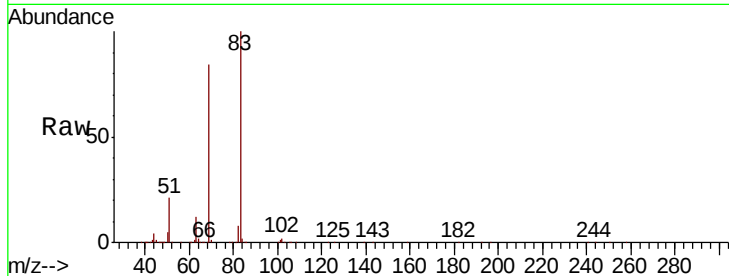
ClientSampleId :

Tot Ion: 51 Resp: 750392

Ion Ratio Lower Upper

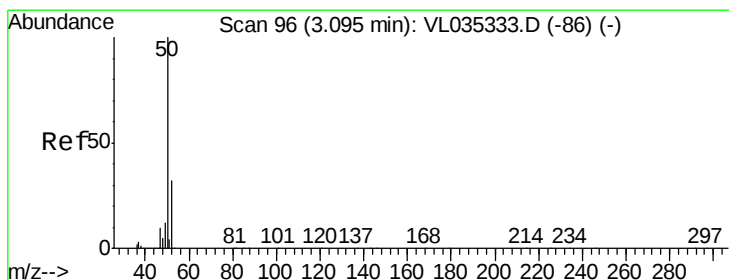
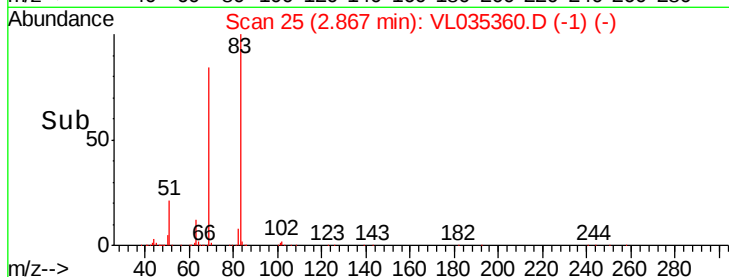
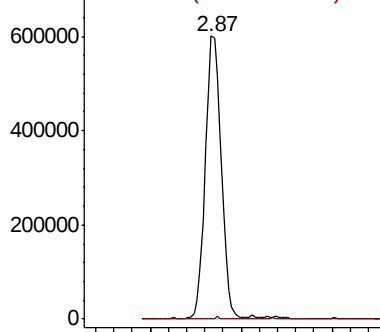
51 100

67 0.1 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.09 min Scan# 93

Delta R.T. -0.01 min

Lab File: VL035360.D

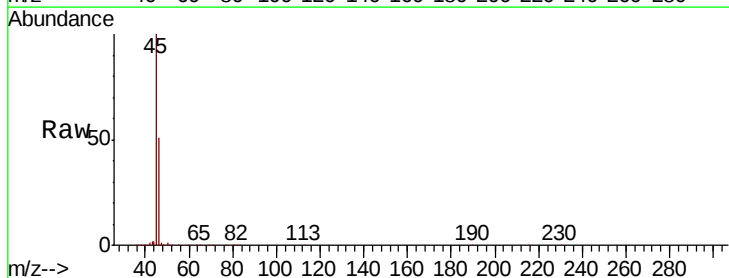
Acq: 6 Aug 2020 21:48

Tgt Ion: 50 Resp: 3607

Ion Ratio Lower Upper

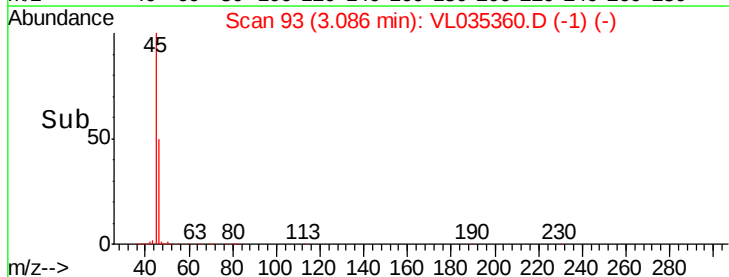
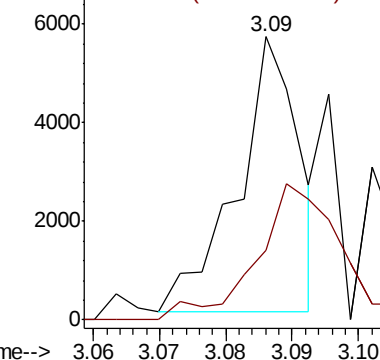
50 100

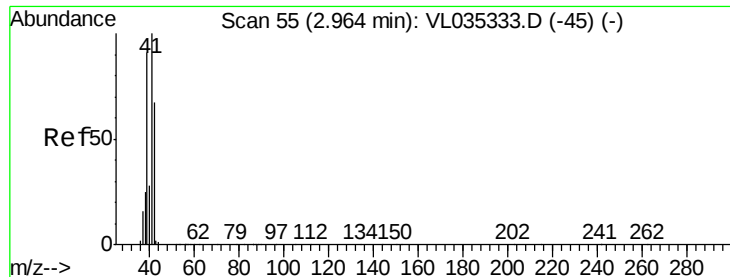
52 25.5 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 85.745 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.19 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Instrument :

MSVOA_L

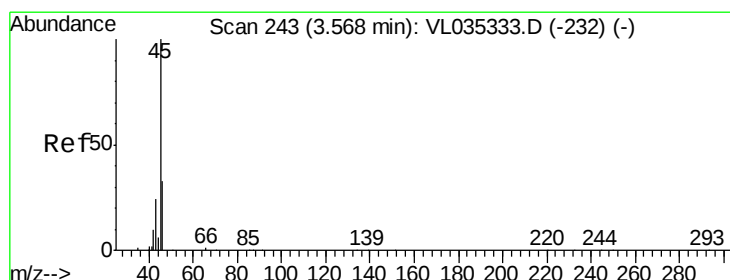
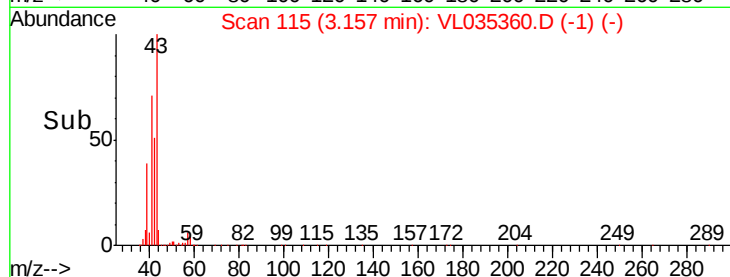
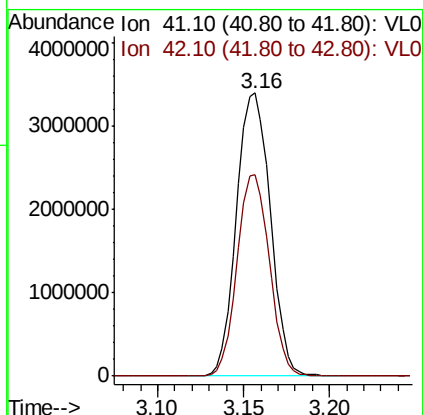
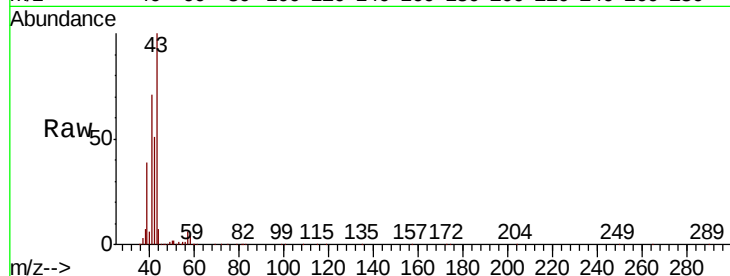
ClientSampleId :

Tot Ion: 41 Resp: 4685342

Ion Ratio Lower Upper

41 100

42 68.0 55.3 82.9



#13

Ethanol

Concen: 7.752 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.01 min

Lab File: VL035360.D

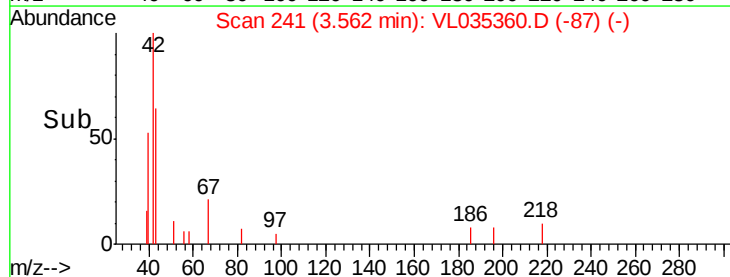
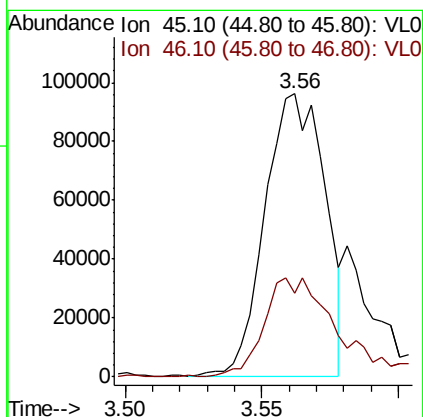
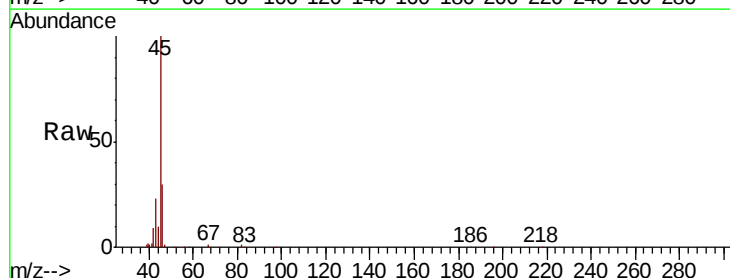
Acq: 6 Aug 2020 21:48

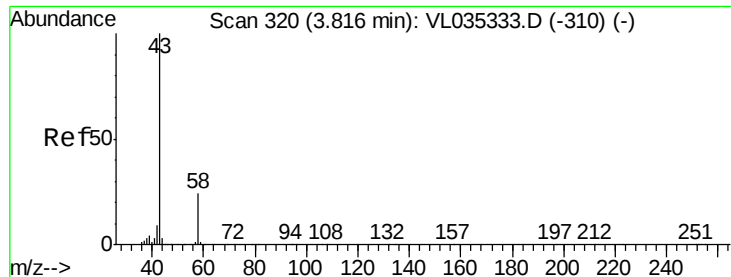
Tgt Ion: 45 Resp: 146091

Ion Ratio Lower Upper

45 100

46 46.5 15.2 61.0





#15

Acetone

Concen: 1.388 ppbv

RT: 3.82 min Scan# 320

Delta R.T. 0.00 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Instrument :

MSVOA_L

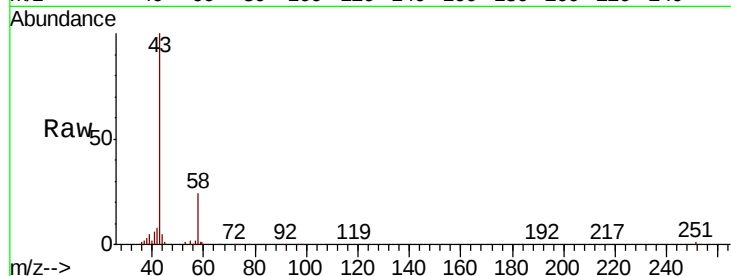
ClientSampleId :

Tot Ion: 43 Resp: 264718

Ion Ratio Lower Upper

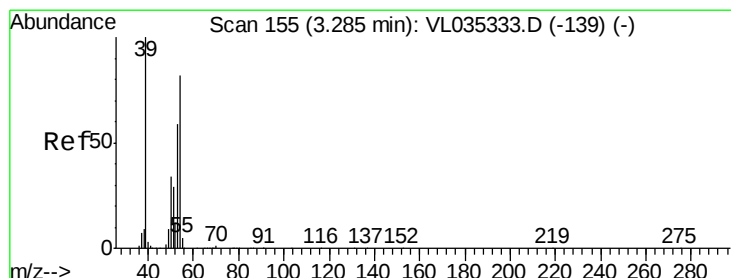
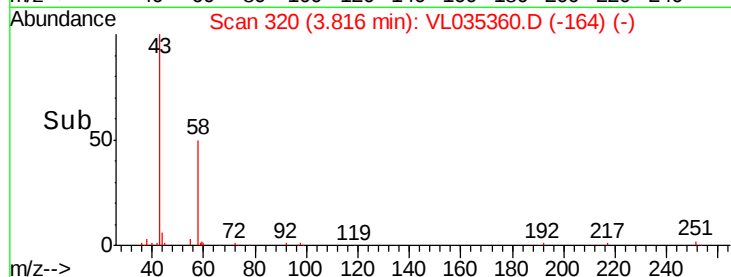
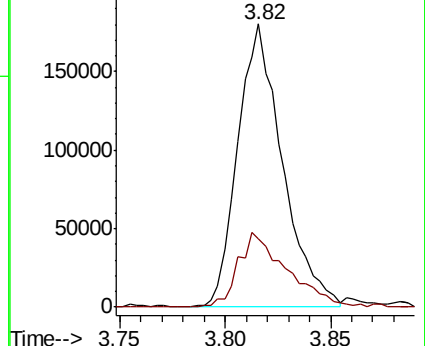
43 100

58 29.2 21.0 31.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.483 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.03 min

Lab File: VL035360.D

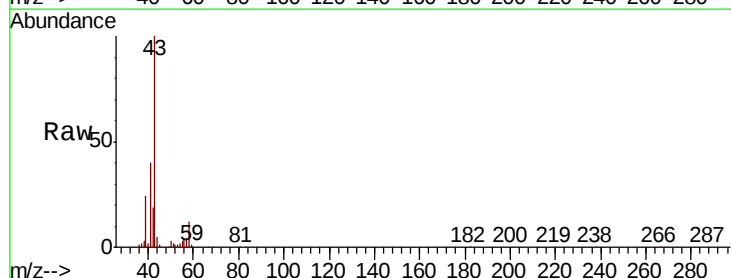
Acq: 6 Aug 2020 21:48

Tgt Ion: 39 Resp: 35478

Ion Ratio Lower Upper

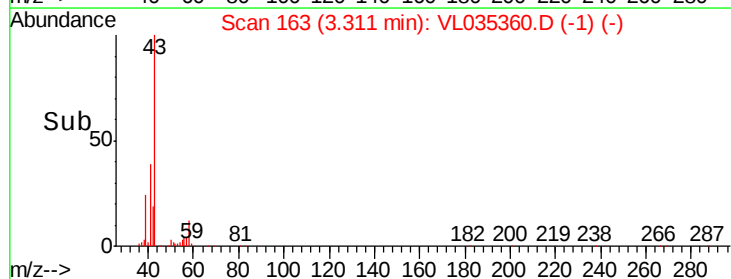
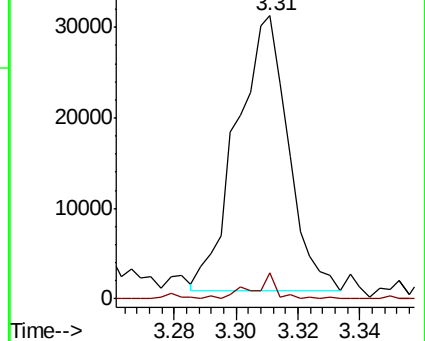
39 100

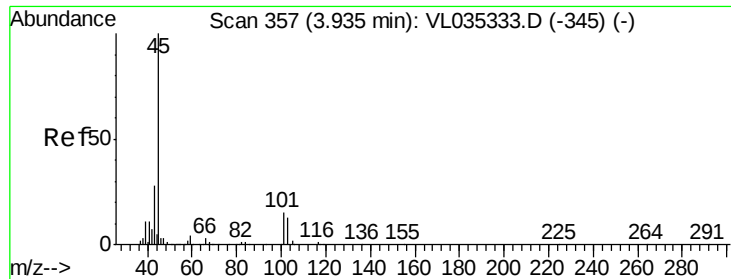
54 5.1 64.4 96.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.180 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.00 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Instrument :

MSVOA_L

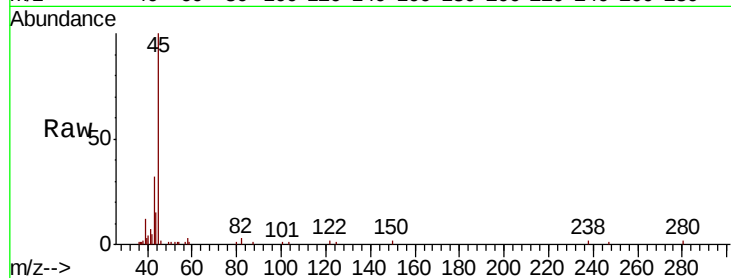
ClientSampleId :

Tot Ion: 45 Resp: 21757

Ion Ratio Lower Upper

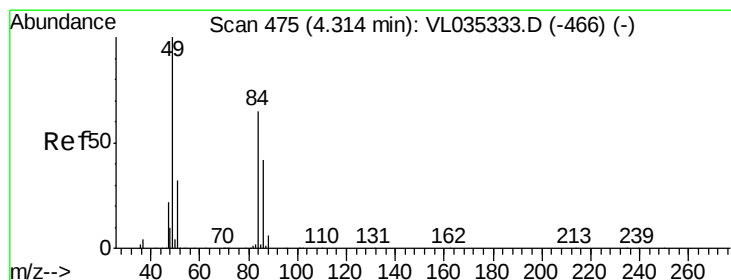
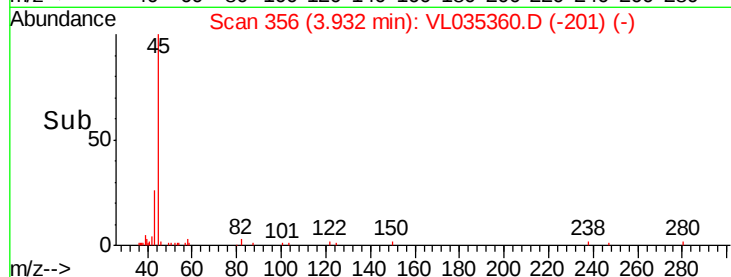
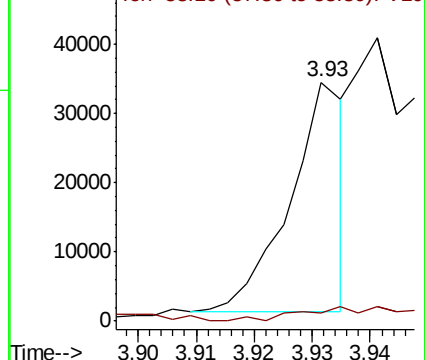
45 100

58 20.4 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: 0.608 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.01 min

Lab File: VL035360.D

Acq: 6 Aug 2020 21:48

Tgt Ion: 84 Resp: 47261

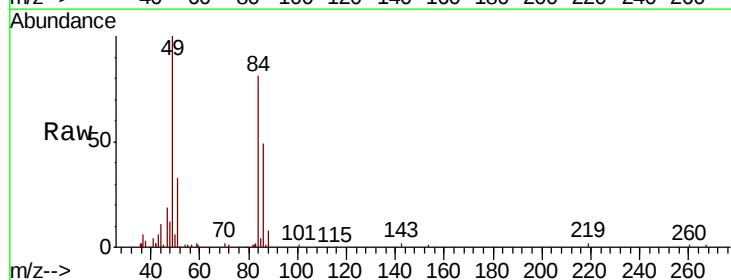
Ion Ratio Lower Upper

84 100

49 122.9 122.8 184.2

51 38.1 40.1 60.1#

86 60.6 51.7 77.5

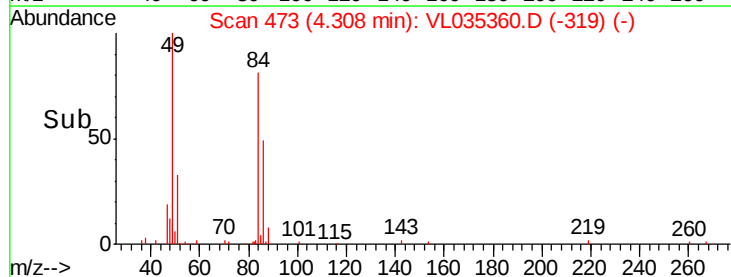
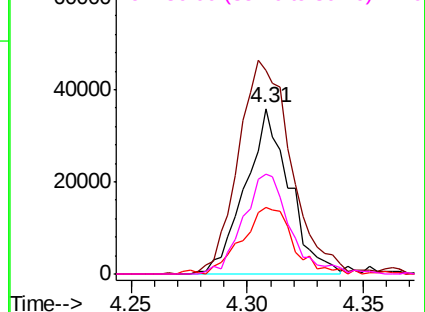


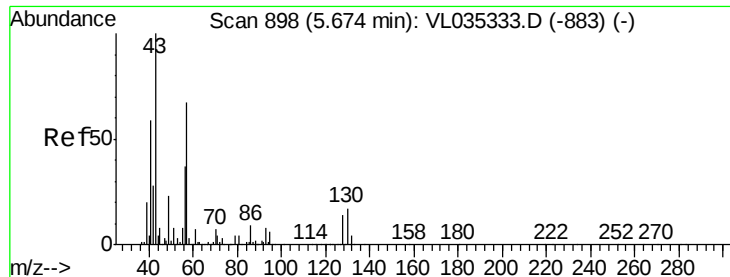
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

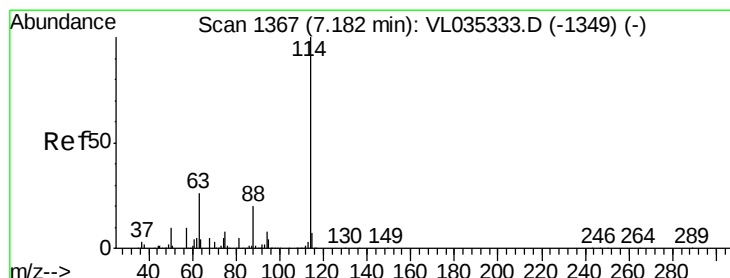
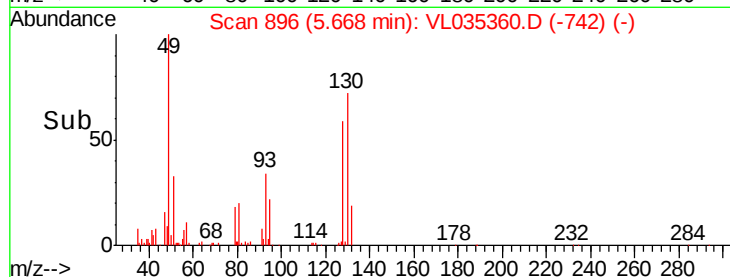
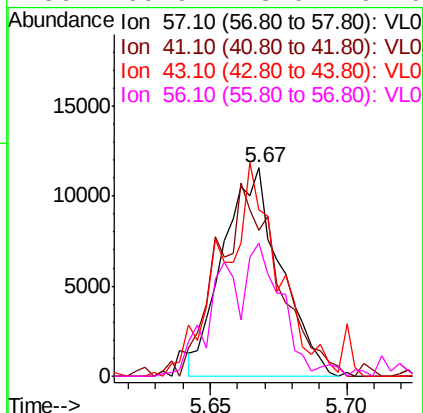
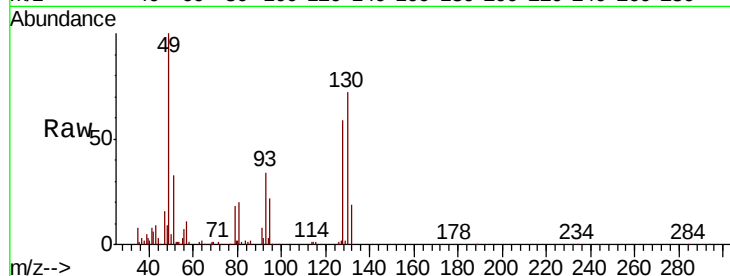




#26
Hexane
Concen: 0.135 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL035360.D
Acq: 6 Aug 2020 21:48

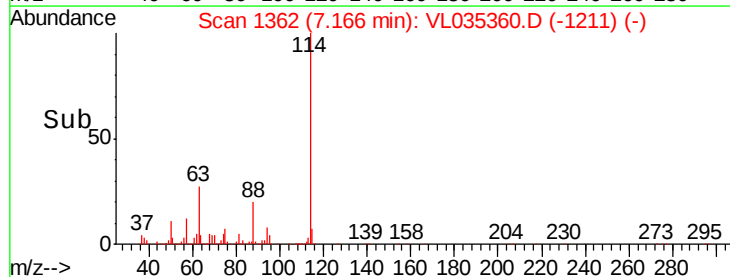
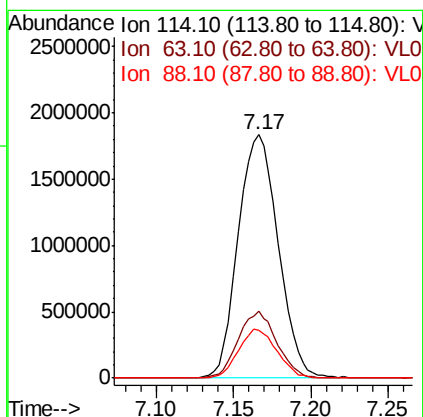
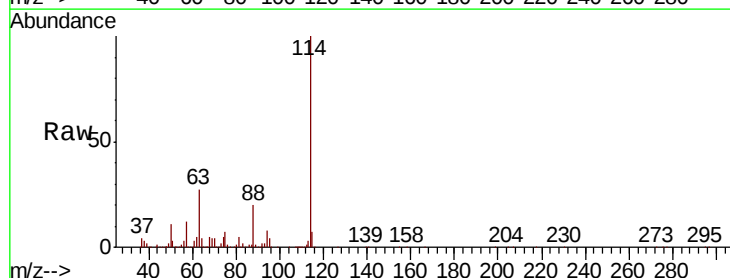
Instrument :
MSVOA_L
ClientSampleId :

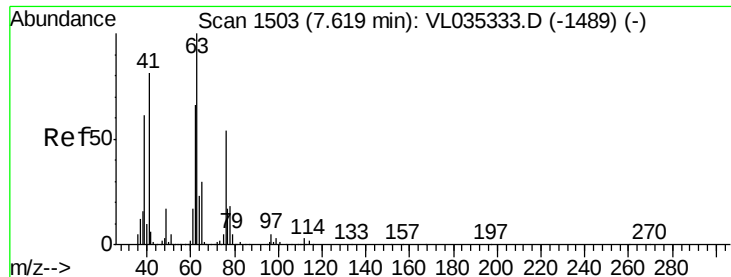
Tot Ion: 57 Resp: 16915
Ion Ratio Lower Upper
57 100
41 101.3 75.2 112.8
43 105.6 180.6 270.8#
56 69.9 43.0 64.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL035360.D
Acq: 6 Aug 2020 21:48

Tgt Ion:114 Resp: 3310390
Ion Ratio Lower Upper
114 100
63 26.5 21.3 31.9
88 19.3 15.3 22.9

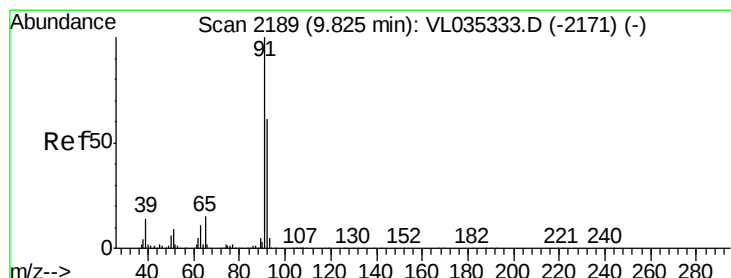
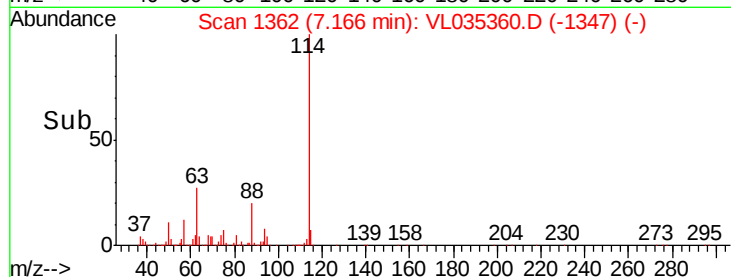
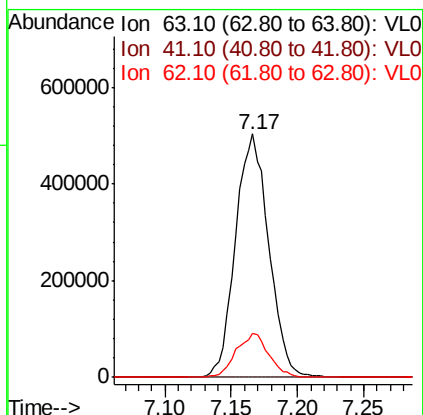
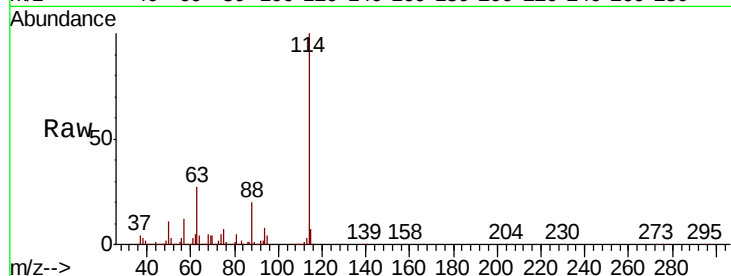




#39
 1,2-Dichloropropane
 Concen: 9.695 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL035360.D
 Acq: 6 Aug 2020 21:48

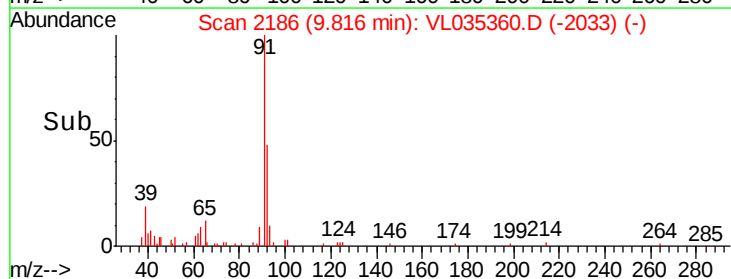
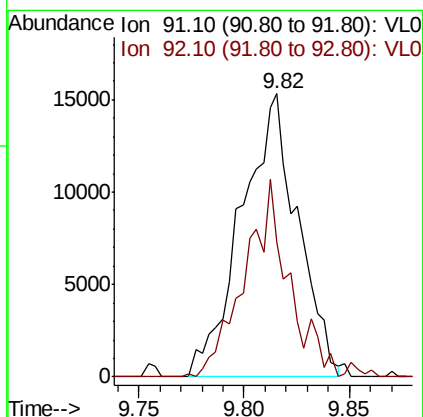
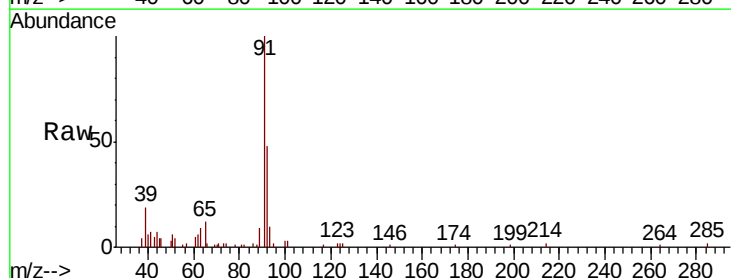
Instrument :
 MSVOA_L
 ClientSampleId :

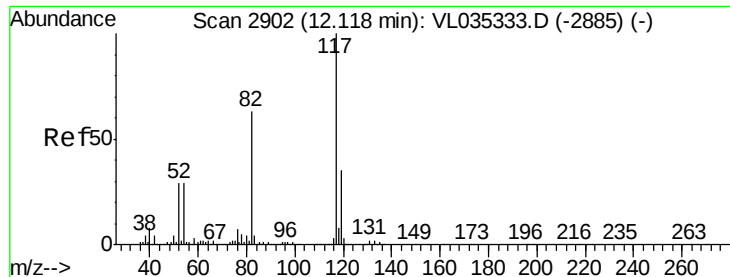
Tot Ion: 63 Resp: 877347
 Ion Ratio Lower Upper
 63 100
 41 0.0 64.4 96.6#
 62 17.8 52.6 78.8#



#53
 Toluene
 Concen: 0.117 ppbv
 RT: 9.82 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VL035360.D
 Acq: 6 Aug 2020 21:48

Tgt Ion: 91 Resp: 28437
 Ion Ratio Lower Upper
 91 100
 92 56.0 48.5 72.7

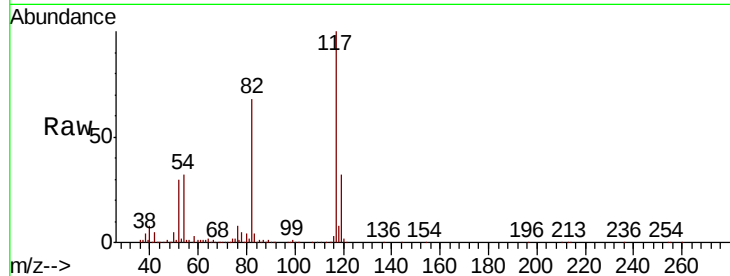




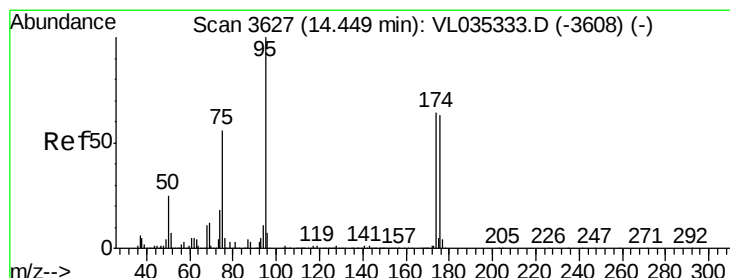
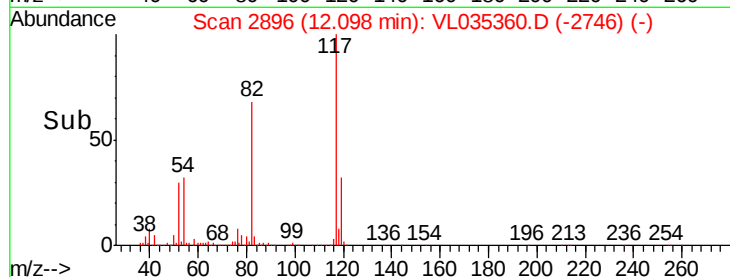
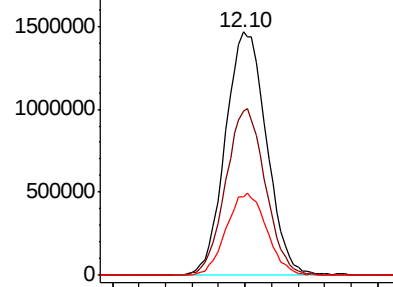
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035360.D
Acq: 6 Aug 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3156146
Ion Ratio Lower Upper
117 100
82 66.5 51.0 76.4
119 33.6 24.7 37.1

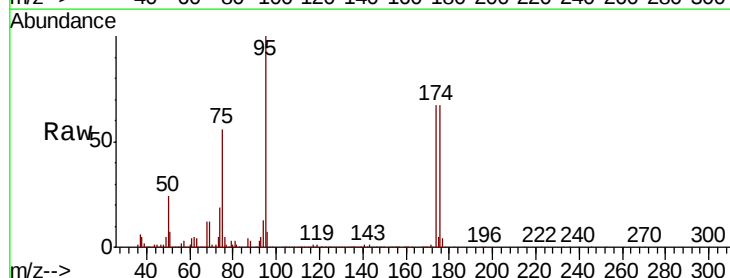


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.905 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL035360.D
Acq: 6 Aug 2020 21:48

Tgt Ion: 95 Resp: 2606966
Ion Ratio Lower Upper
95 100
174 67.3 53.5 80.3
175 5.1 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

