

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035916.D
 Acq On : 12 Nov 2020 16:43
 Operator : SY/AP
 Sample : L4720-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-2DL

Quant Time: Nov 13 00:58:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1223298	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4170865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3881567	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2844315	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

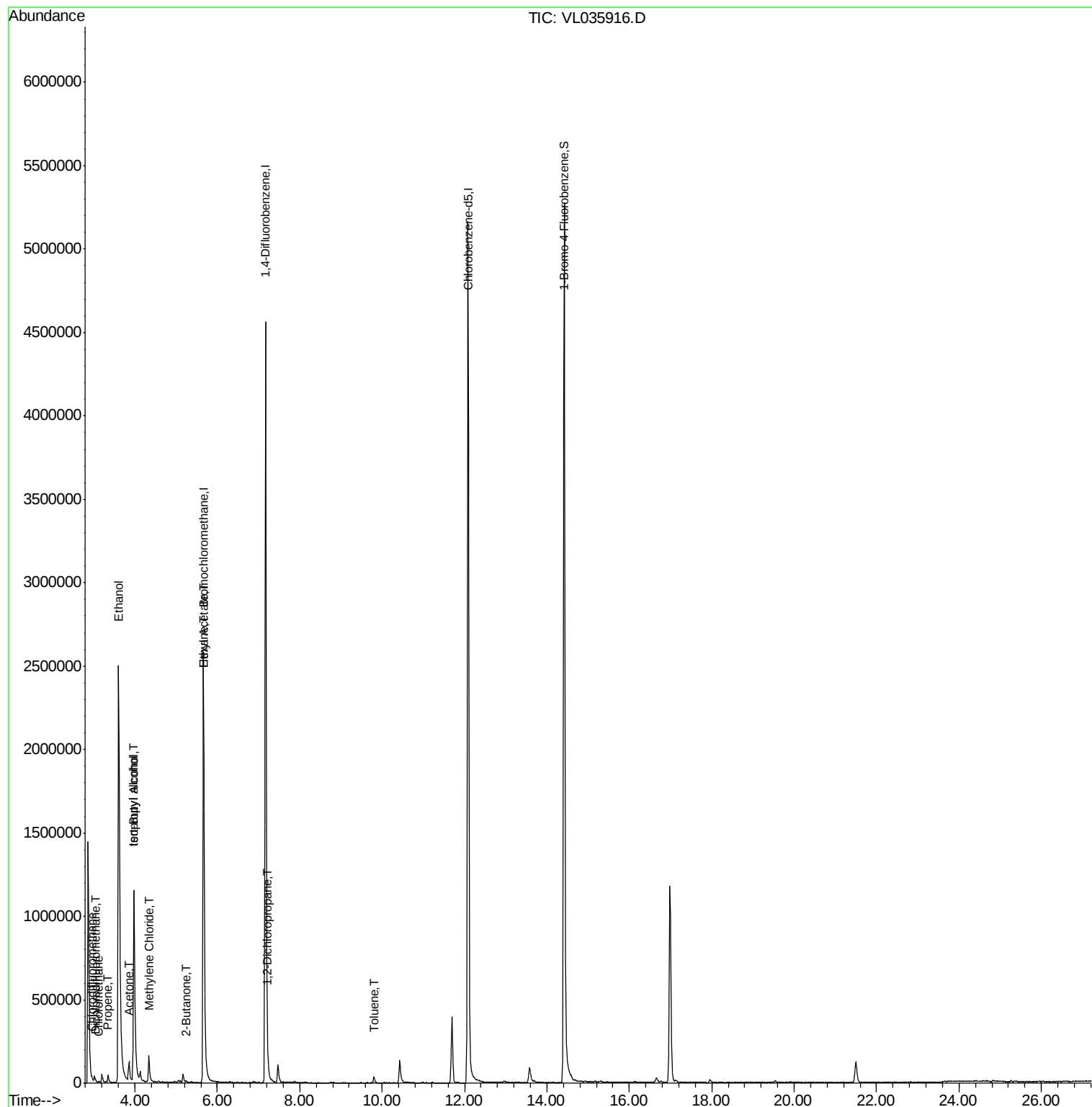
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	12806	0.056	ppbv	95
3) Chlorodifluoromethane	2.96	51	27627	0.189	ppbv #	67
4) Chloromethane	3.13	50	3494	0.049	ppbv #	82
9) Propene	3.35	41	6878	0.128	ppbv	96
13) Ethanol	3.61	45	4129475	355.003	ppbv	96
15) Acetone	3.85	43	137454	1.051	ppbv	89
17) tert-Butyl alcohol	3.97	59	77682	0.448	ppbv	99
19) Isopropyl Alcohol	3.98	45	1718672	21.385	ppbv	100
20) Methylene Chloride	4.34	84	83476	0.907	ppbv	97
25) Ethyl Acetate	5.68	43	32551	0.126	ppbv #	81
26) Hexane	5.68	57	43823	0.308	ppbv #	50
34) 2-Butanone	5.25	43	10055	0.074	ppbv #	85
39) 1,2-Dichloropropane	7.22	63	11812	0.113	ppbv #	30
53) Toluene	9.80	91	17151	0.046	ppbv #	43

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

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QLast Update : Wed Nov 04 02:40:06 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

CVS-2DL

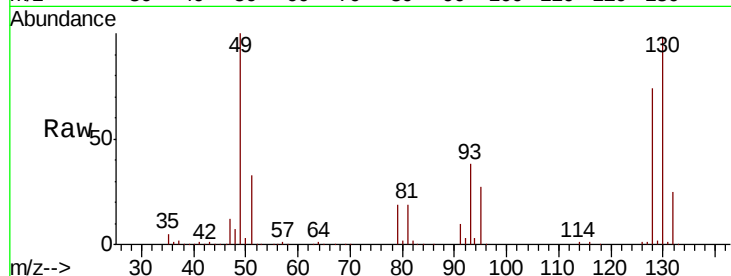
Tot Ion: 49 Resp: 1223298

Ion Ratio Lower Upper

49 100

128 75.4 41.5 124.6

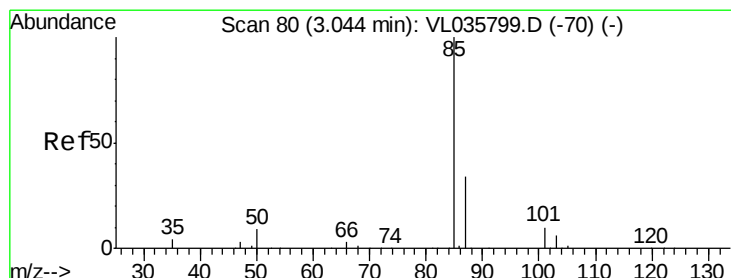
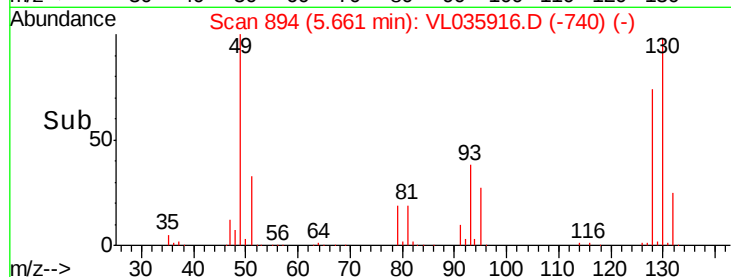
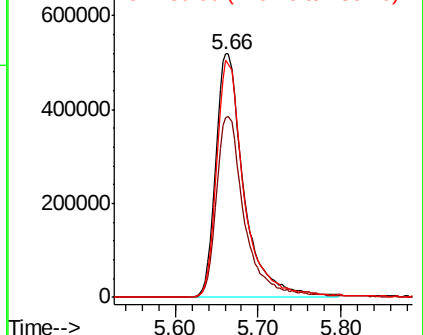
130 96.2 53.7 161.1



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: 0.056 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035916.D

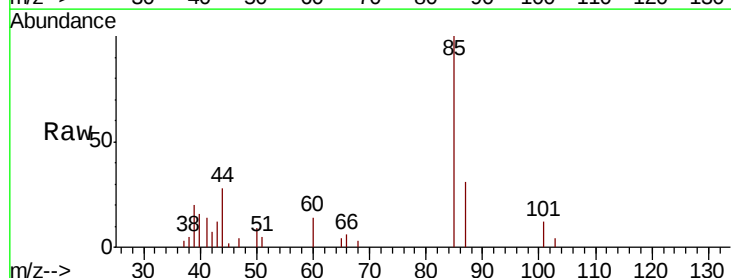
Acq: 12 Nov 2020 16:43

Tgt Ion: 85 Resp: 12806

Ion Ratio Lower Upper

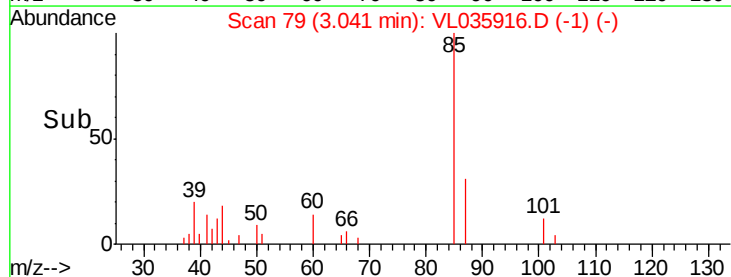
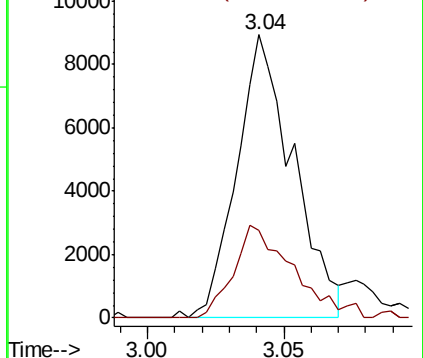
85 100

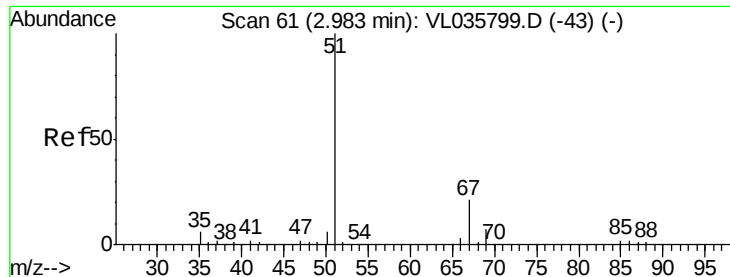
87 31.1 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.189 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

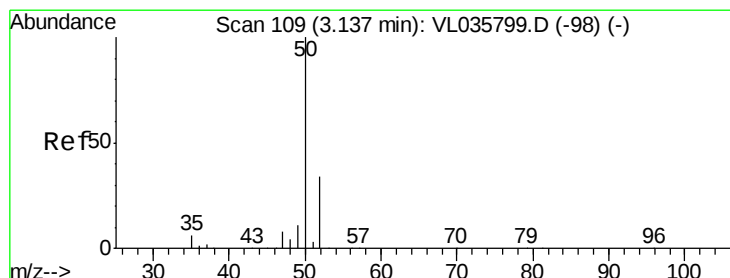
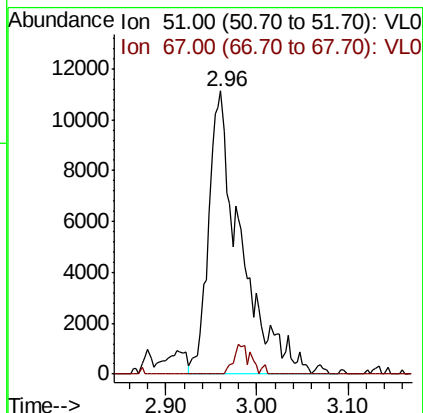
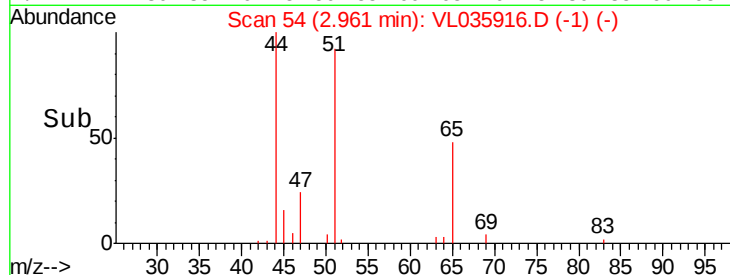
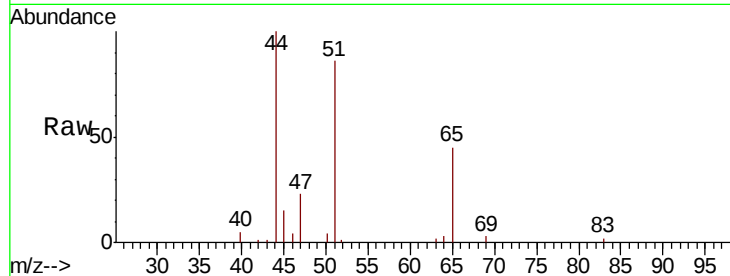
CVS-2DL

Tot Ion: 51 Resp: 27627

Ion Ratio Lower Upper

51 100

67 5.6 17.0 25.4#



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035916.D

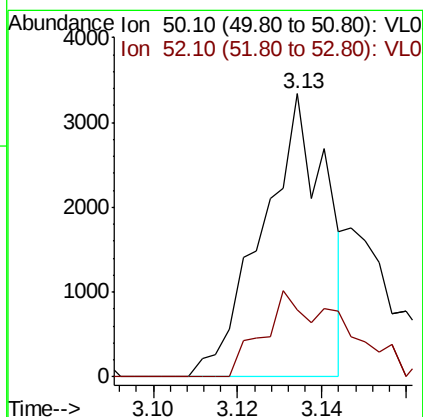
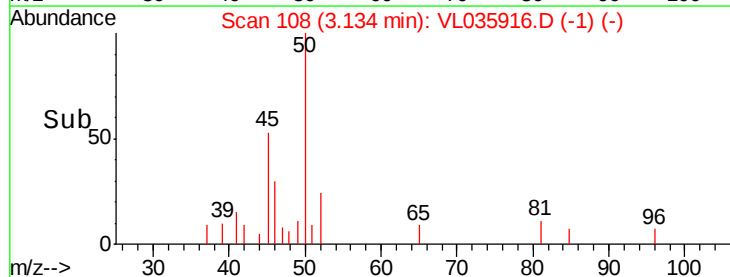
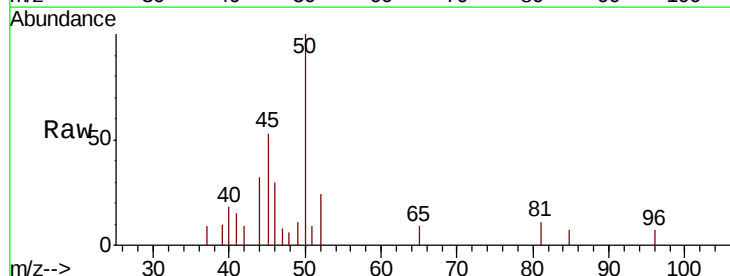
Acq: 12 Nov 2020 16:43

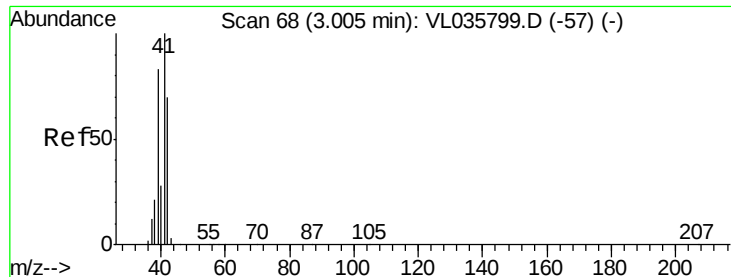
Tgt Ion: 50 Resp: 3494

Ion Ratio Lower Upper

50 100

52 23.8 27.1 40.7#





#9

Propene

Concen: 0.128 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.35 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

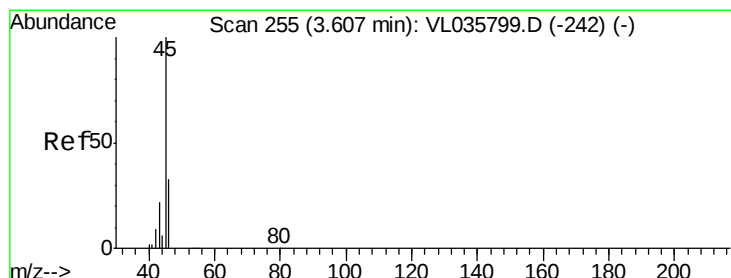
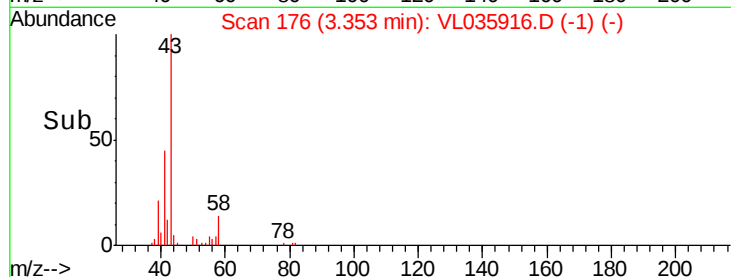
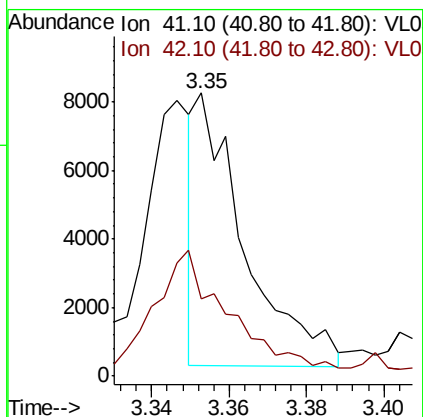
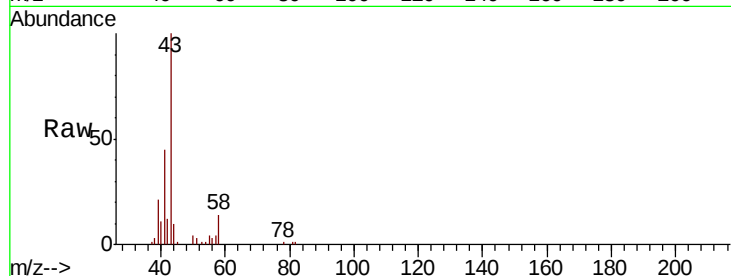
CVS-2DL

Tot Ion: 41 Resp: 6878

Ion Ratio Lower Upper

41 100

42 66.9 56.2 84.4



#13

Ethanol

Concen: 355.003 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL035916.D

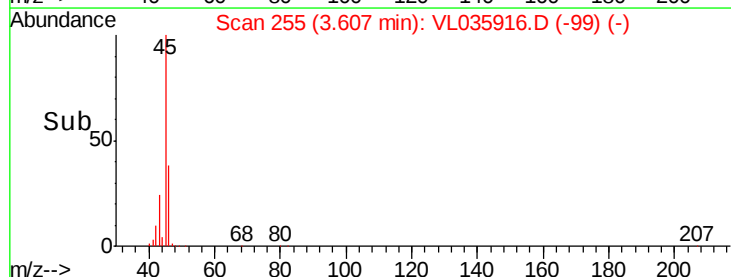
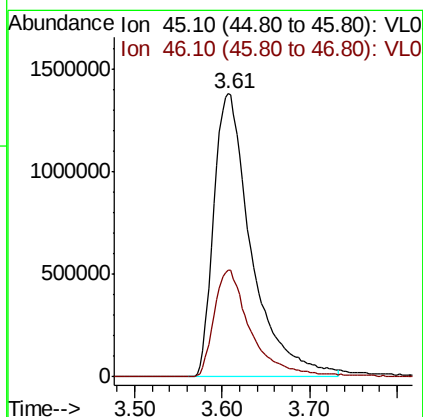
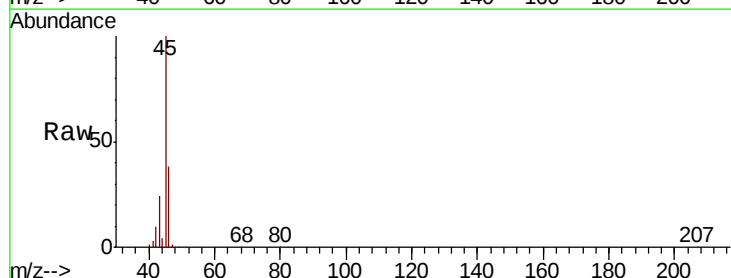
Acq: 12 Nov 2020 16:43

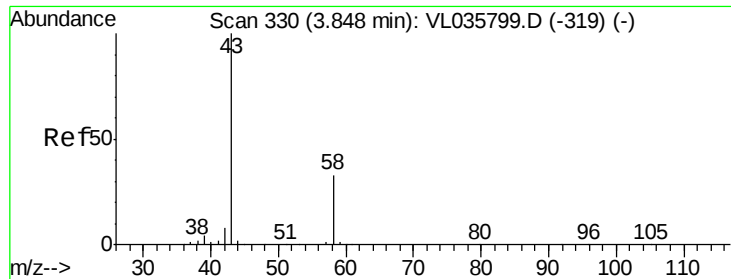
Tgt Ion: 45 Resp: 4129475

Ion Ratio Lower Upper

45 100

46 37.6 16.1 64.5





#15

Acetone

Concen: 1.051 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

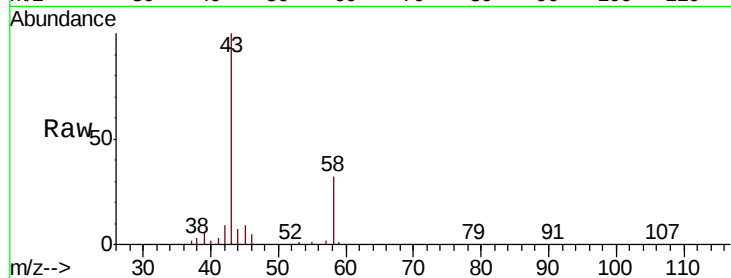
CVS-2DL

Tot Ion: 43 Resp: 137454

Ion Ratio Lower Upper

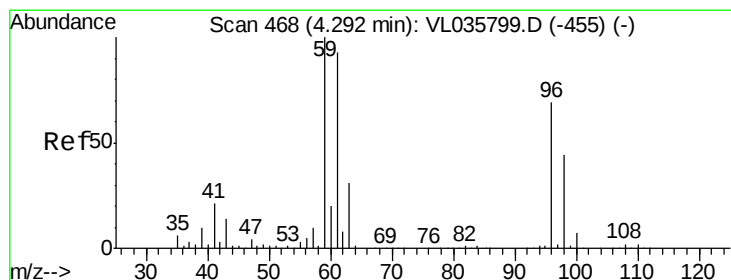
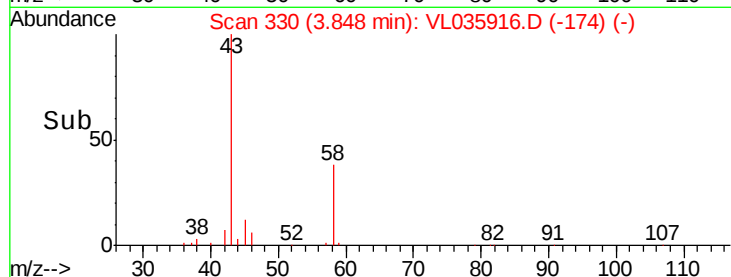
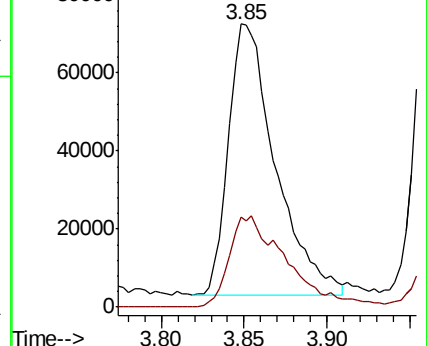
43 100

58 41.0 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.448 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.32 min

Lab File: VL035916.D

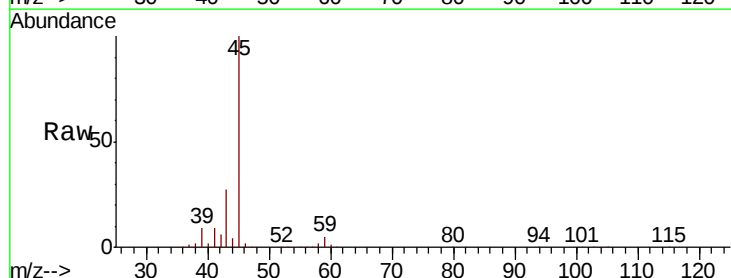
Acq: 12 Nov 2020 16:43

Tgt Ion: 59 Resp: 77682

Ion Ratio Lower Upper

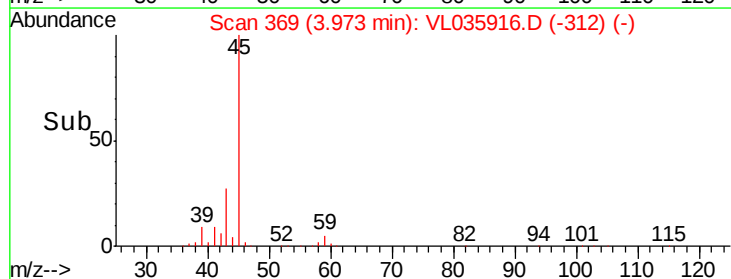
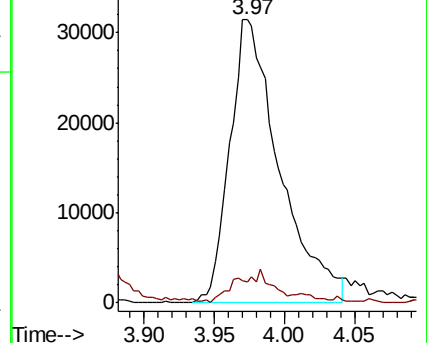
59 100

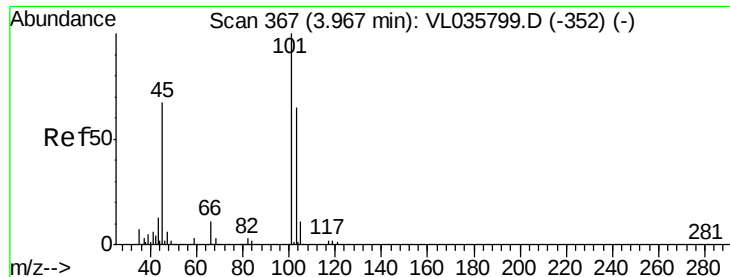
57 10.6 8.2 12.4



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol
 Concen: 21.385 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL035916.D
 Acq: 12 Nov 2020 16:43

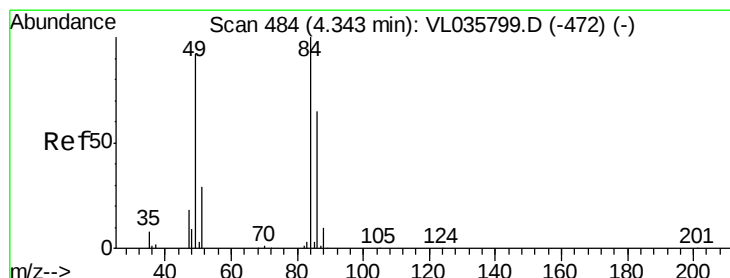
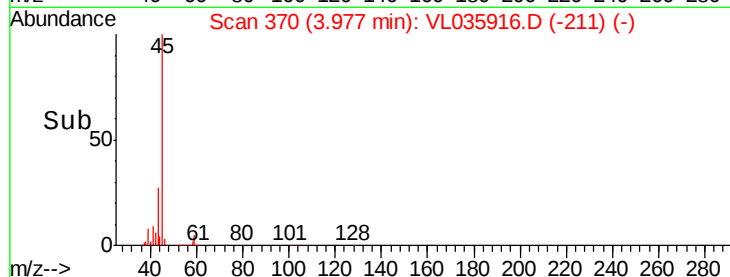
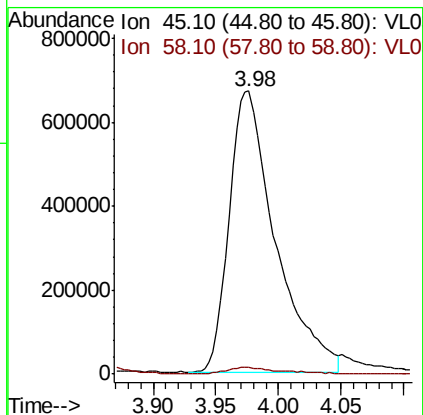
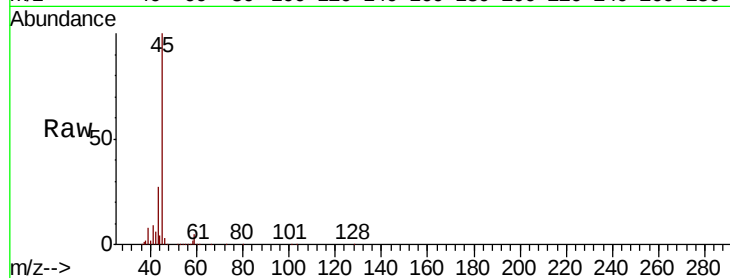
Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-2DL

Tot Ion: 45 Resp: 1718672

Ion Ratio Lower Upper

45 100

58 3.2 2.6 3.8



#20

Methylene Chloride
 Concen: 0.907 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL035916.D
 Acq: 12 Nov 2020 16:43

Tgt Ion: 84 Resp: 83476

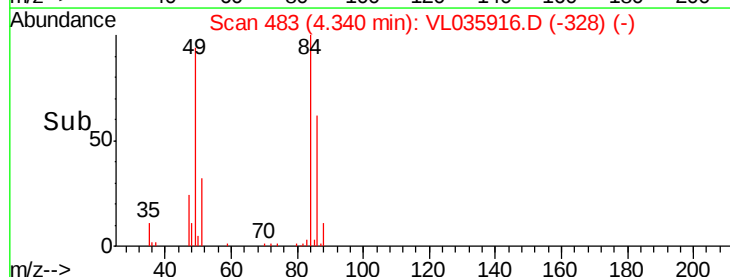
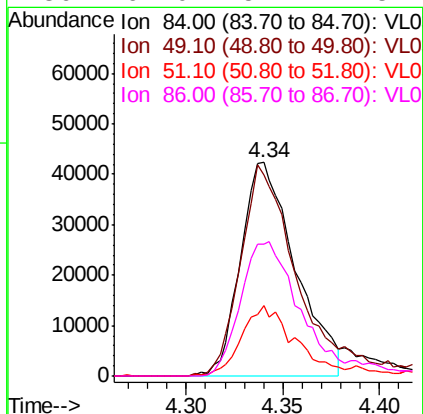
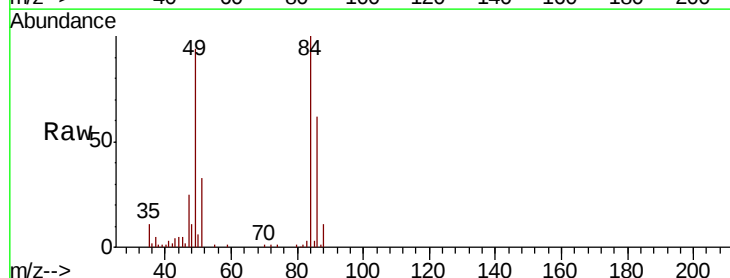
Ion Ratio Lower Upper

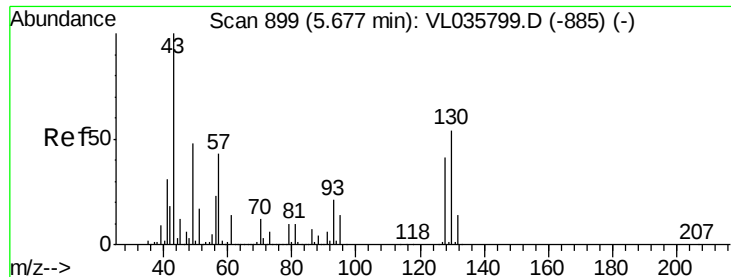
84 100

49 94.0 73.8 110.8

51 32.7 23.0 34.4

86 62.0 52.1 78.1

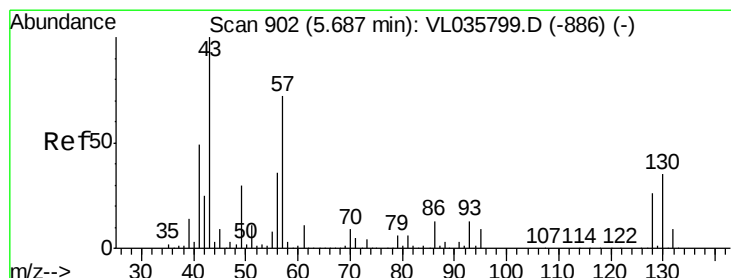
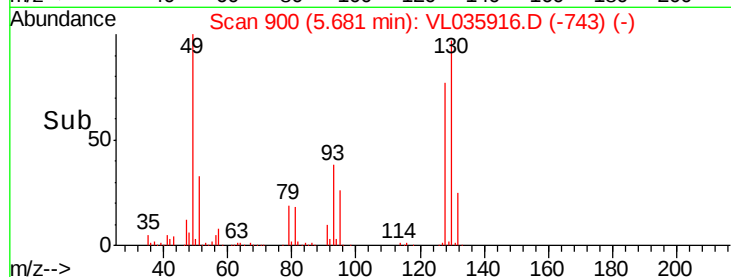
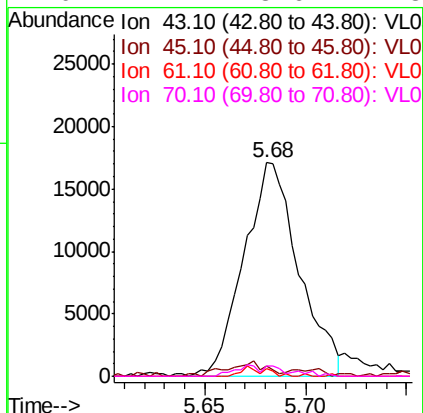
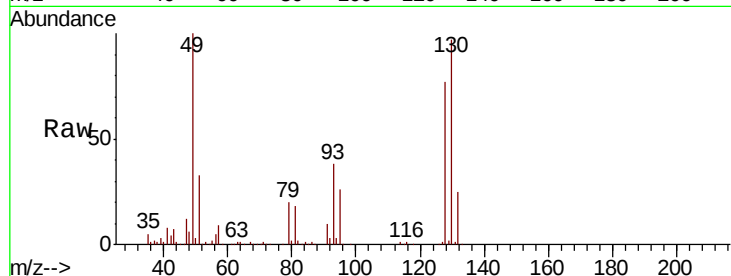




#25
Ethyl Acetate
Concen: 0.126 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035916.D
Acq: 12 Nov 2020 16:43

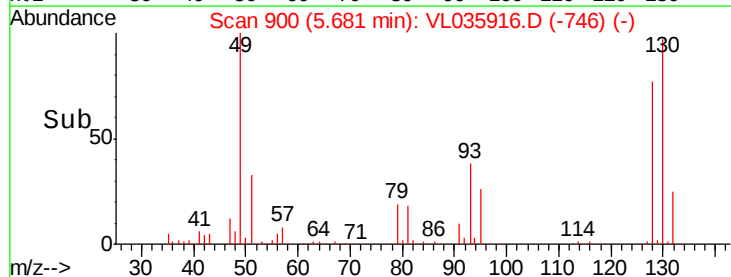
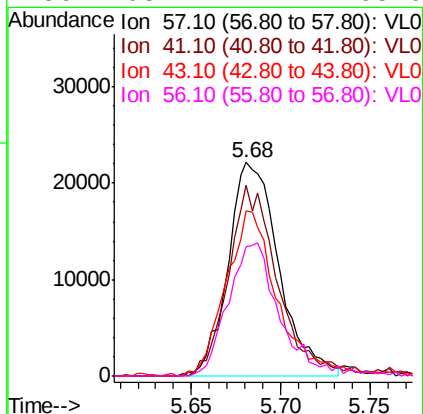
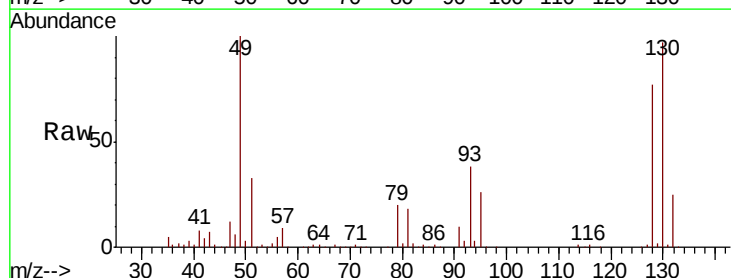
Instrument :
MSVOA_L
ClientSampleId :
CVS-2DL

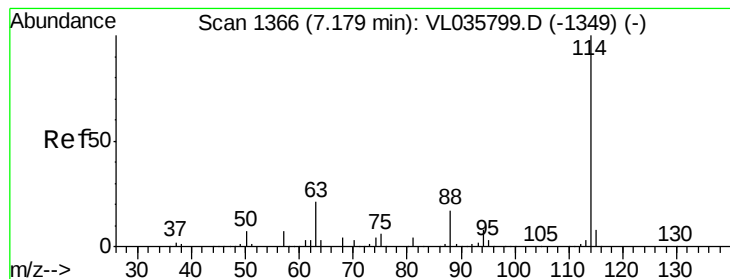
Tot Ion:	43	Resp:	32551
Ion	Ratio	Lower	Upper
43	100		
45	6.8	8.5	12.7#
61	2.0	10.7	16.1#
70	4.7	8.6	12.8#



#26
Hexane
Concen: 0.308 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL035916.D
Acq: 12 Nov 2020 16:43

Tgt Ion:	57	Resp:	43823
Ion	Ratio	Lower	Upper
57	100		
41	88.9	58.9	88.3#
43	81.8	150.2	225.2#
56	63.7	42.4	63.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

CVS-2DL

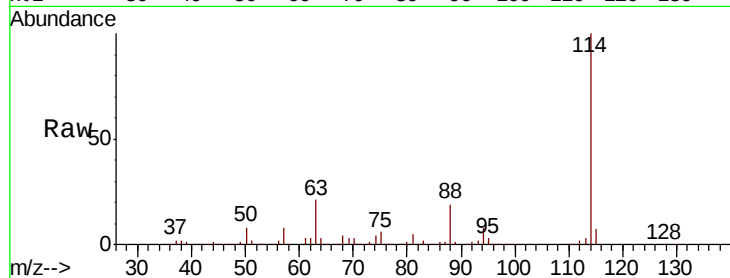
Tot Ion:114 Resp: 4170865

Ion Ratio Lower Upper

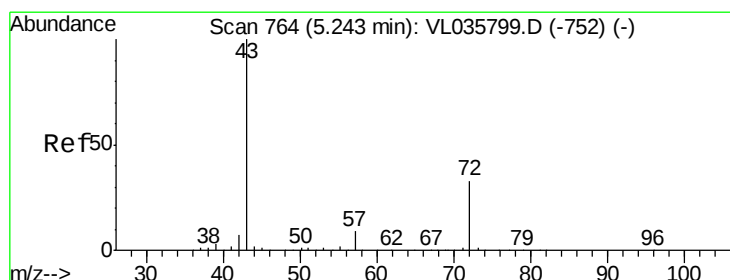
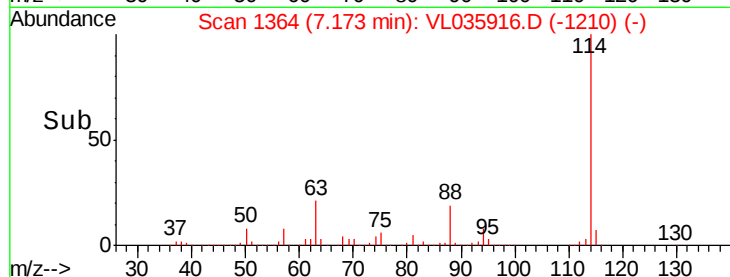
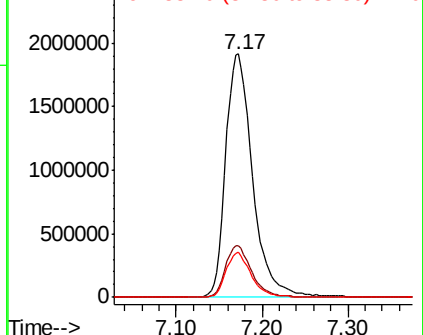
114 100

63 20.9 16.1 24.1

88 17.5 13.7 20.5



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: 0.074 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL035916.D

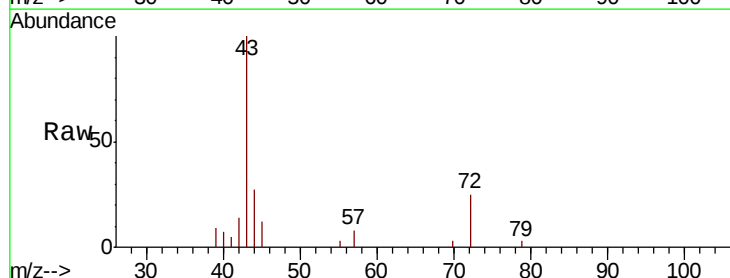
Acq: 12 Nov 2020 16:43

Tgt Ion: 43 Resp: 10055

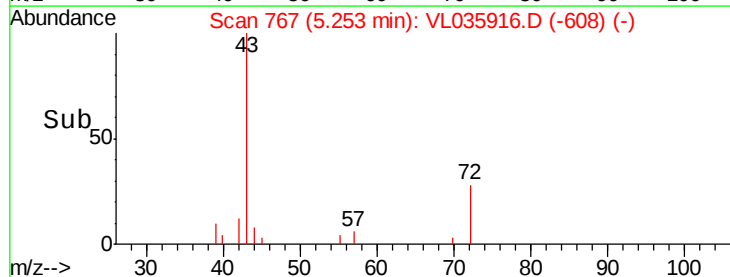
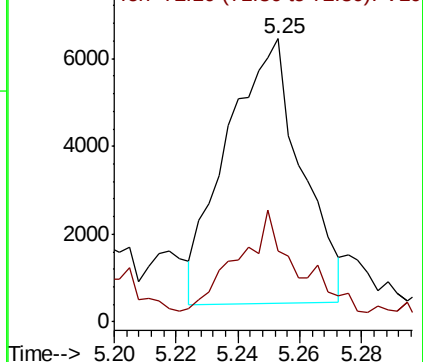
Ion Ratio Lower Upper

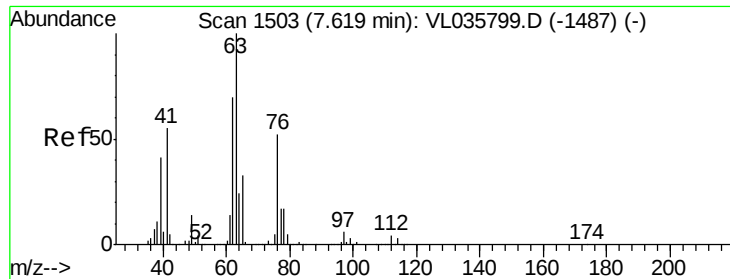
43 100

72 41.4 26.5 39.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.113 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.40 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

CVS-2DL

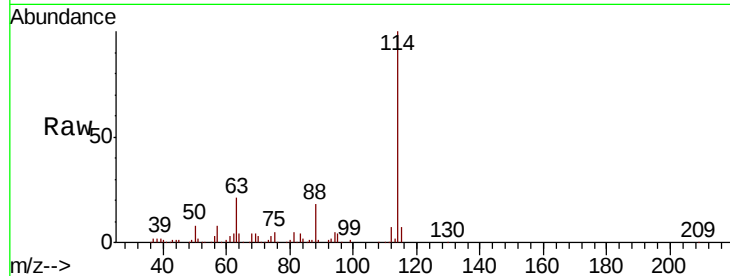
Tot Ion: 63 Resp: 11812

Ion Ratio Lower Upper

63 100

41 0.5 43.8 65.6#

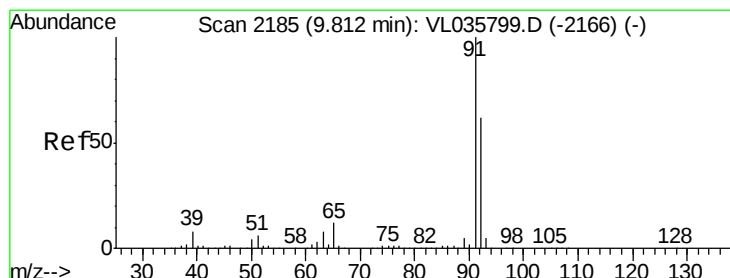
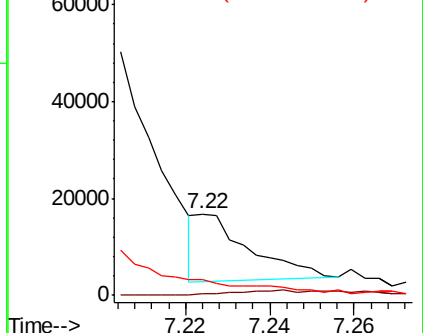
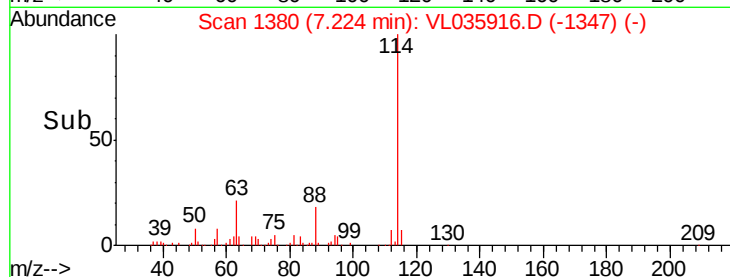
62 16.5 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.046 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL035916.D

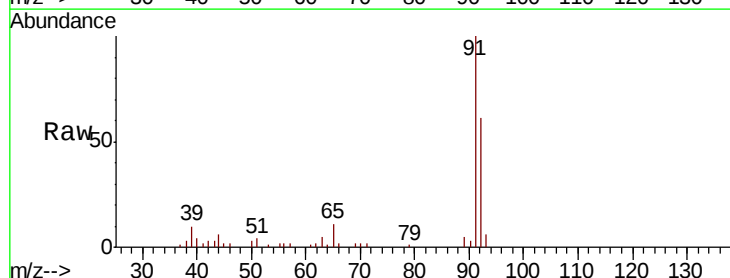
Acq: 12 Nov 2020 16:43

Tgt Ion: 91 Resp: 17151

Ion Ratio Lower Upper

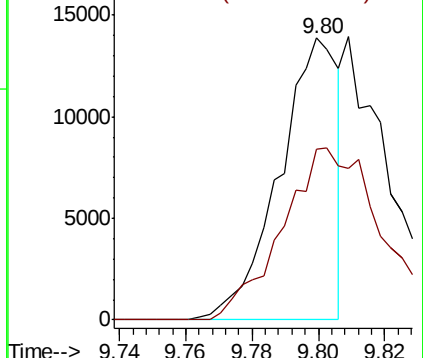
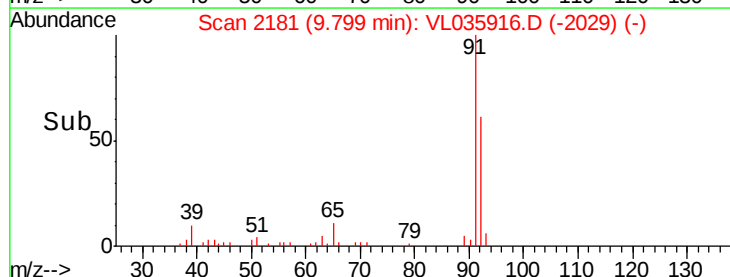
91 100

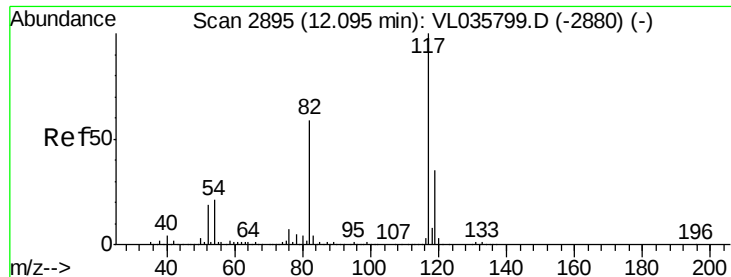
92 105.8 49.8 74.6#



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: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

CVS-2DL

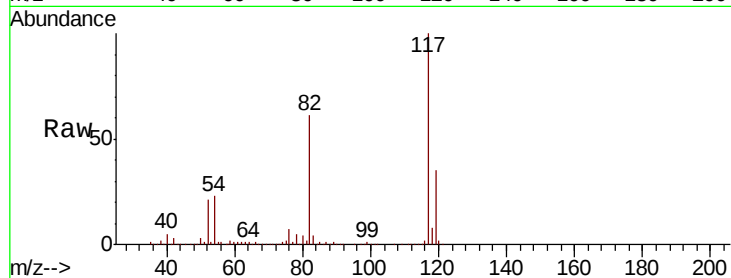
Tot Ion:117 Resp: 3881567

Ion Ratio Lower Upper

117 100

82 61.7 50.6 76.0

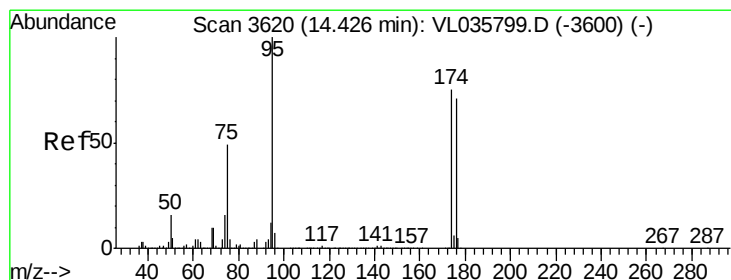
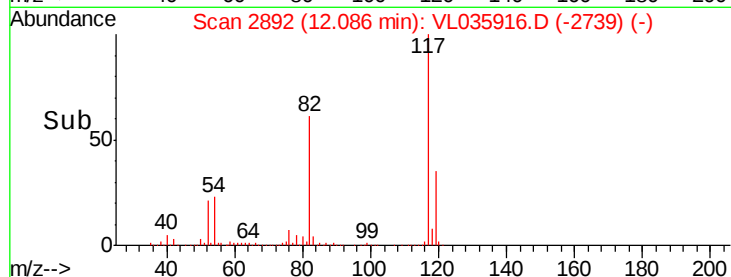
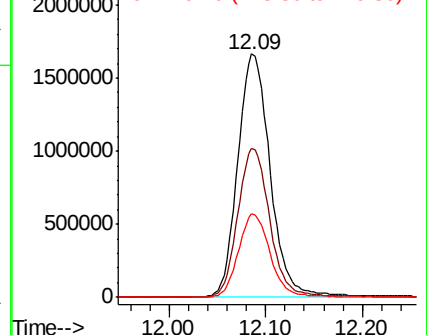
119 34.3 52.6 78.8#



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: 10.314 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035916.D

Acq: 12 Nov 2020 16:43

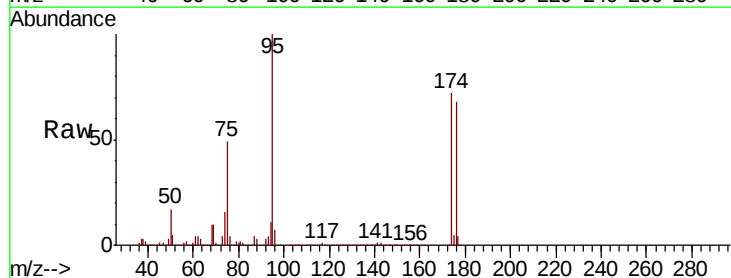
Tgt Ion: 95 Resp: 2844315

Ion Ratio Lower Upper

95 100

174 73.2 59.8 89.6

175 5.1 4.3 6.5



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

