

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035929.D
 Acq On : 13 Nov 2020 1:16
 Operator : SY/AP
 Sample : L4721-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-3DL

Quant Time: Nov 13 03:41:11 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	1139063	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3911964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3625151	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2607413	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

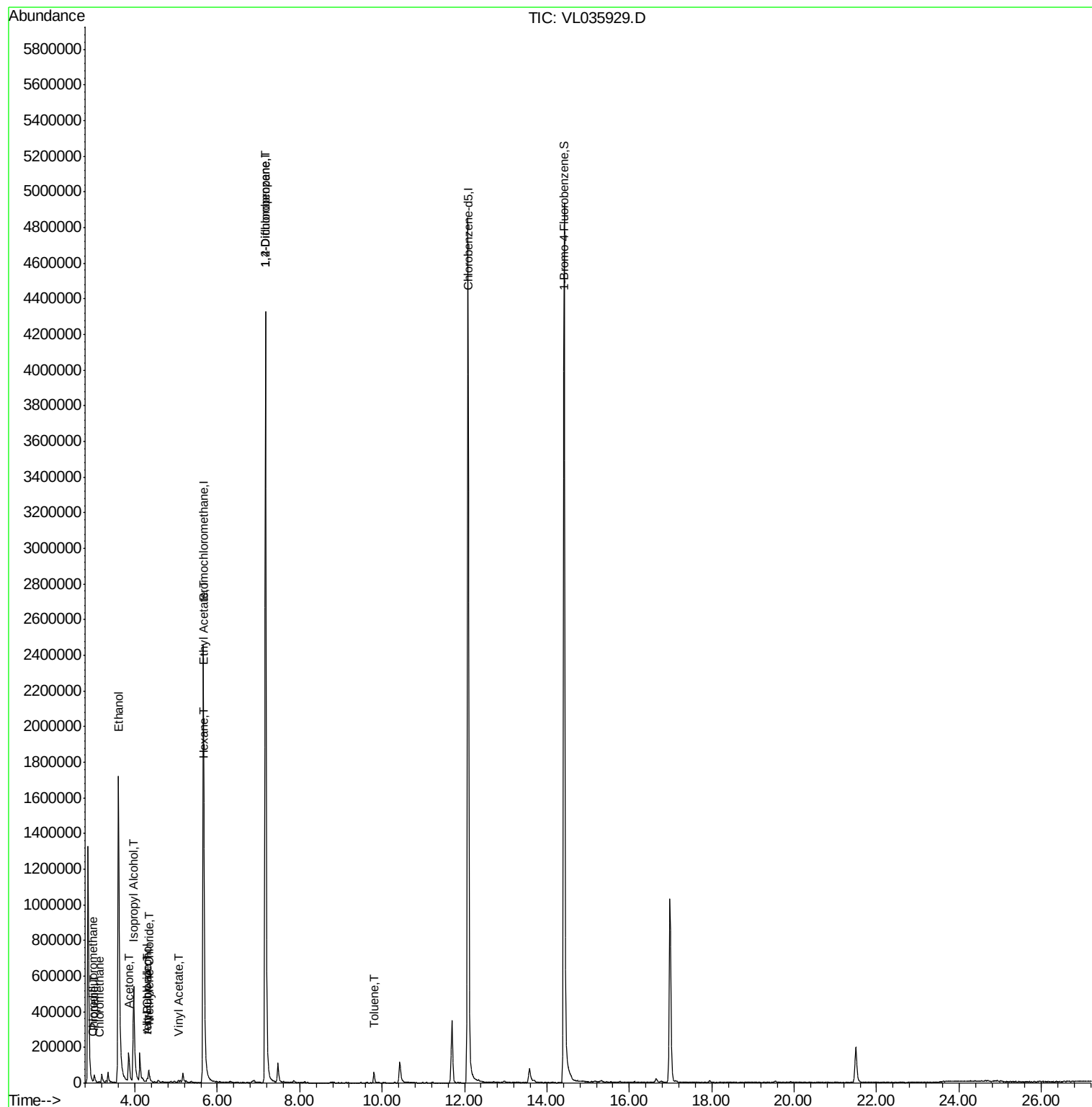
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	10109	0.074	ppbv #	84
4) Chloromethane	3.13	50	3420	0.052	ppbv	95
9) Propene	3.01	41	11334	0.227	ppbv	95
13) Ethanol	3.60	45	2601496	240.184	ppbv	95
15) Acetone	3.85	43	172035	1.413	ppbv	91
17) tert-Butyl alcohol	4.30	59	13895	0.086	ppbv #	89
19) Isopropyl Alcohol	3.97	45	774720	10.352	ppbv #	97
20) Methylene Chloride	4.34	84	35947	0.419	ppbv	94
21) Allyl Chloride	4.30	41	2195	0.033	ppbv #	1
23) Vinyl Acetate	5.06	43	5608	0.033	ppbv #	69
25) Ethyl Acetate	5.68	43	14513	0.060	ppbv #	78
26) Hexane	5.68	57	41584	0.314	ppbv #	46
39) 1,2-Dichloropropane	7.17	63	813095	8.304	ppbv #	30
53) Toluene	9.81	91	51205	0.146	ppbv	98

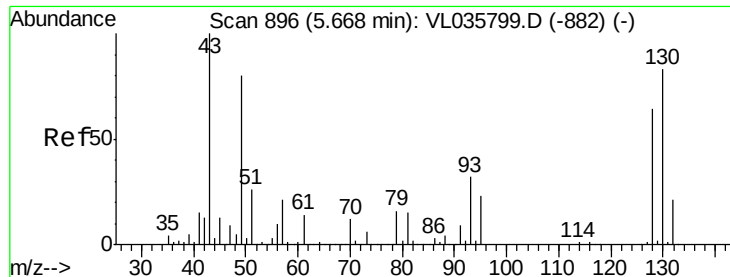
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 13 03:41:11 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

Instrument :

MSVOA_L

ClientSampleId :

LA-3DL

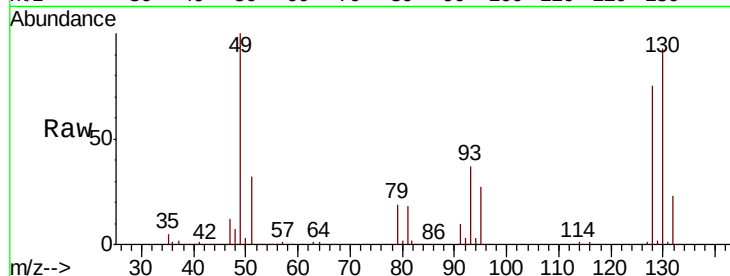
Tot Ion: 49 Resp: 1139063

Ion Ratio Lower Upper

49 100

128 75.5 41.5 124.6

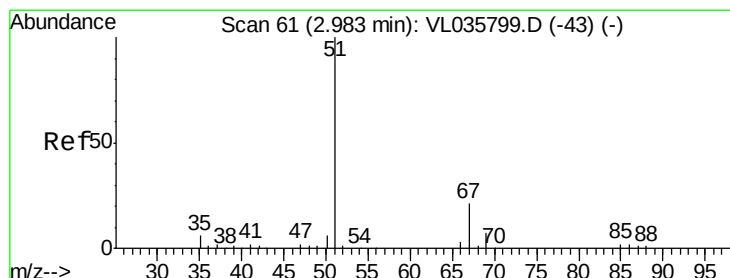
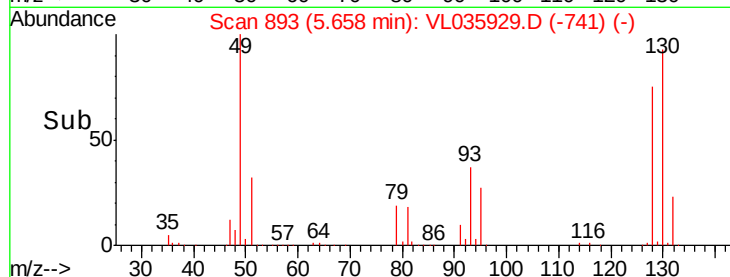
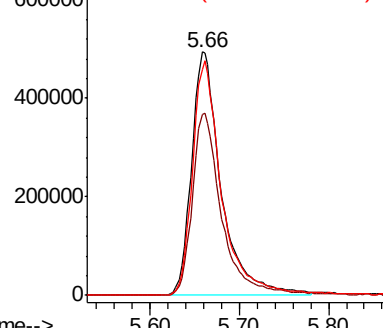
130 95.8 53.7 161.1



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



#3

Chlorodifluoromethane

Concen: 0.074 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035929.D

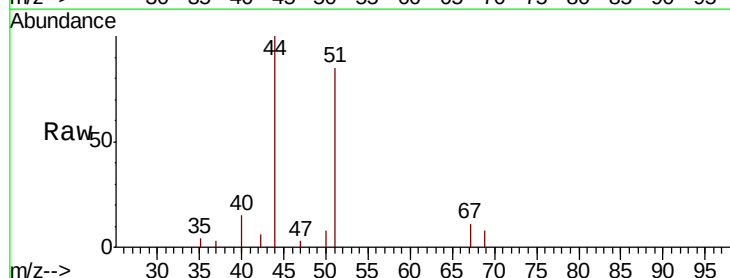
Acq: 13 Nov 2020 1:16

Tgt Ion: 51 Resp: 10109

Ion Ratio Lower Upper

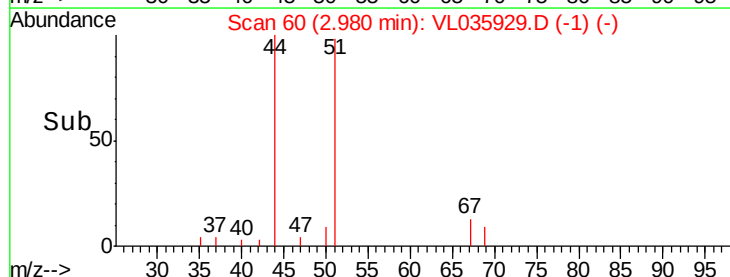
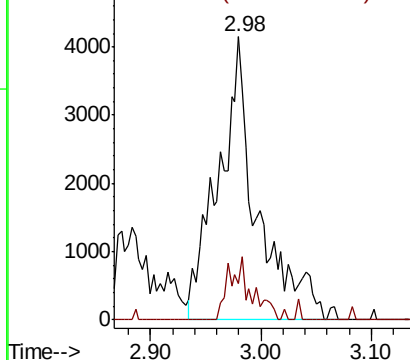
51 100

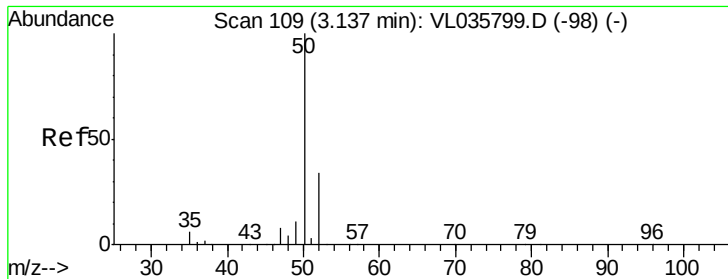
67 13.6 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

Instrument :

MSVOA_L

ClientSampleId :

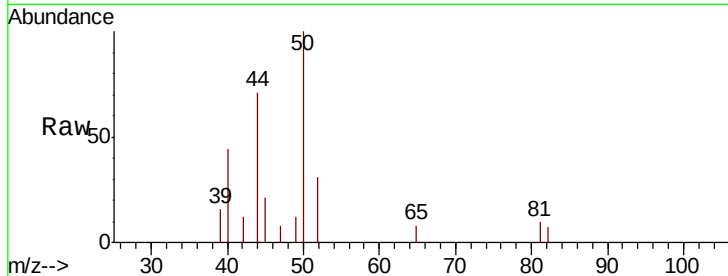
LA-3DL

Tot Ion: 50 Resp: 3420

Ion Ratio Lower Upper

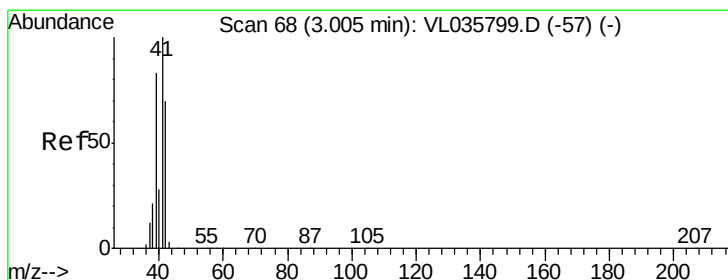
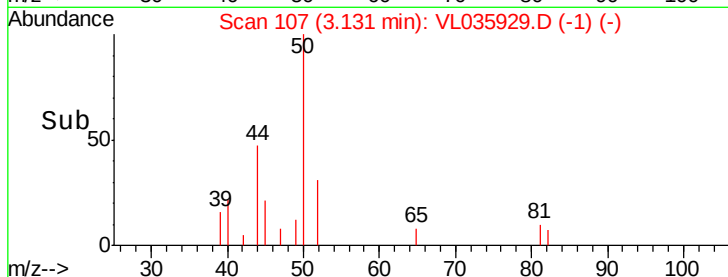
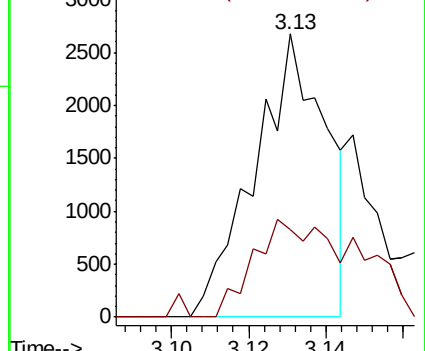
50 100

52 31.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.227 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035929.D

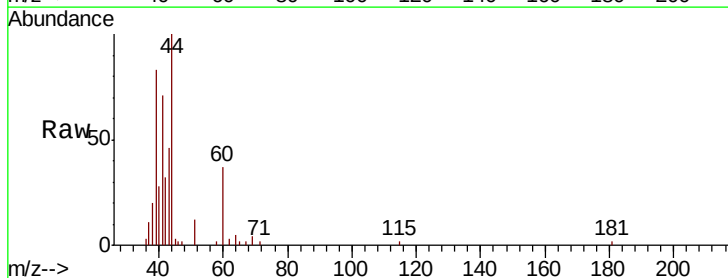
Acq: 13 Nov 2020 1:16

Tgt Ion: 41 Resp: 11334

Ion Ratio Lower Upper

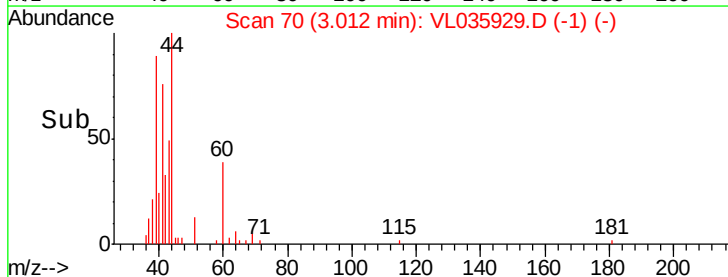
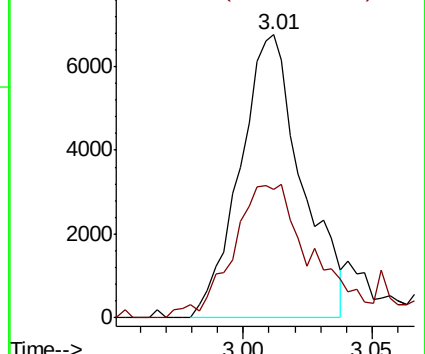
41 100

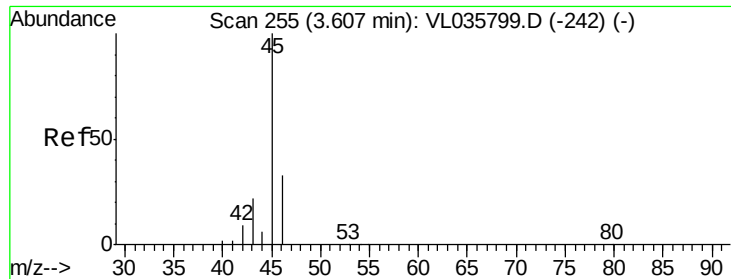
42 66.3 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 240.184 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

Instrument :

MSVOA_L

ClientSampleId :

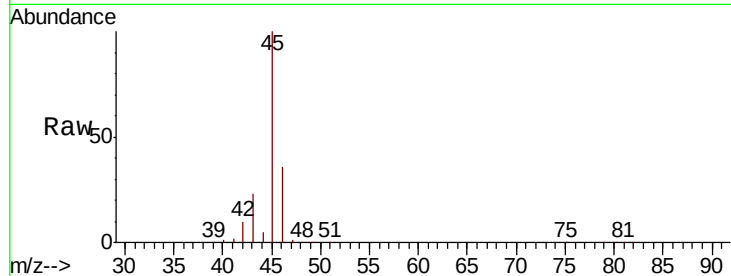
LA-3DL

Tot Ion: 45 Resp: 2601496

Ion Ratio Lower Upper

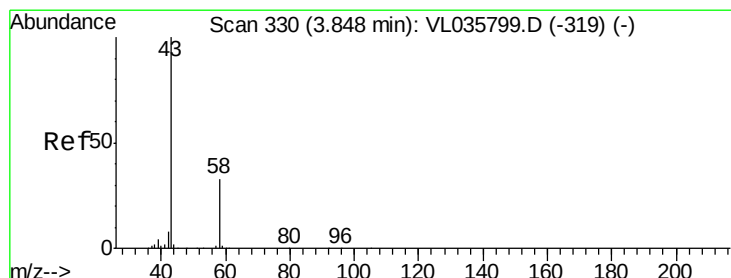
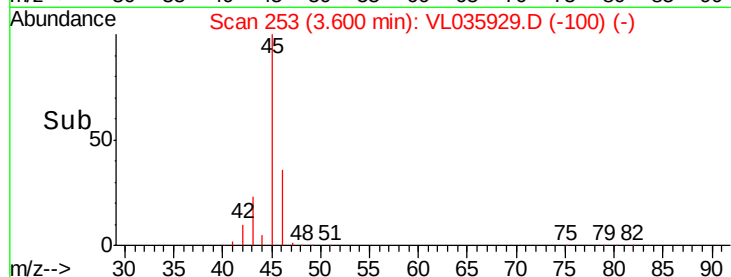
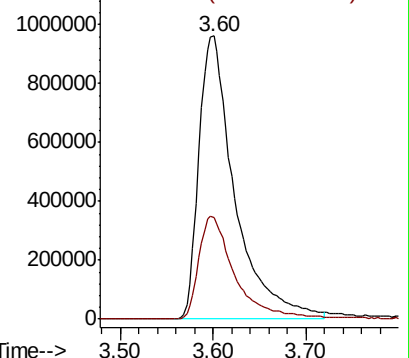
45 100

46 36.9 16.1 64.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 1.413 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL035929.D

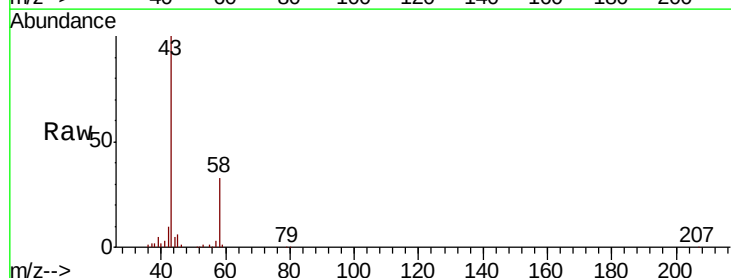
Acq: 13 Nov 2020 1:16

Tgt Ion: 43 Resp: 172035

Ion Ratio Lower Upper

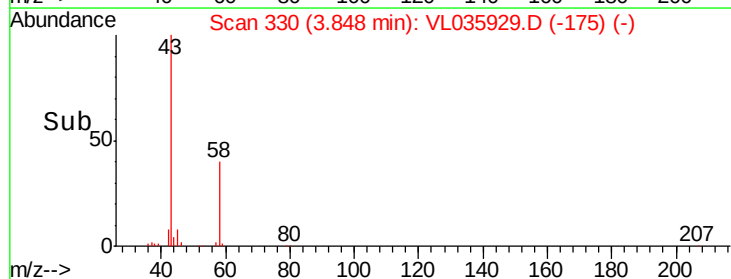
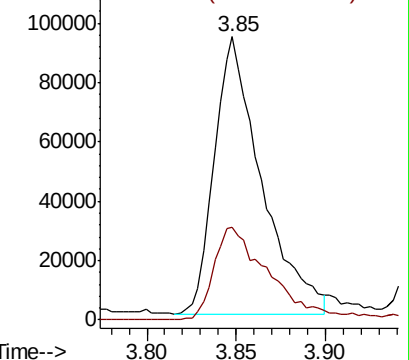
43 100

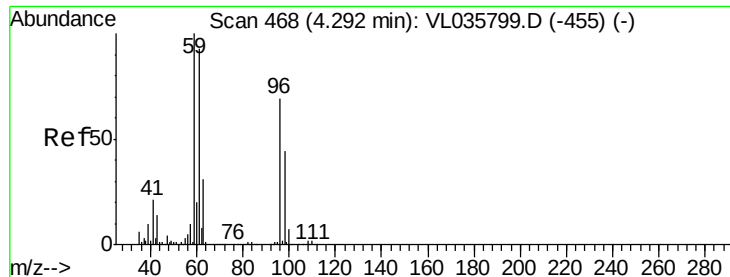
58 39.5 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



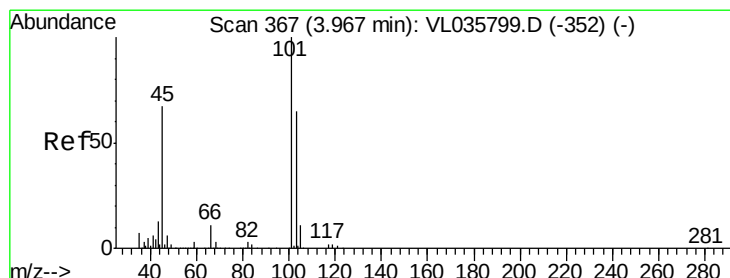
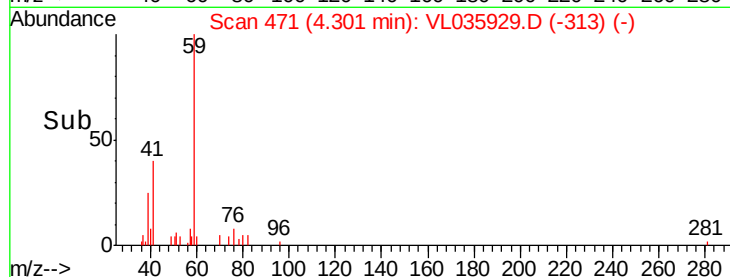
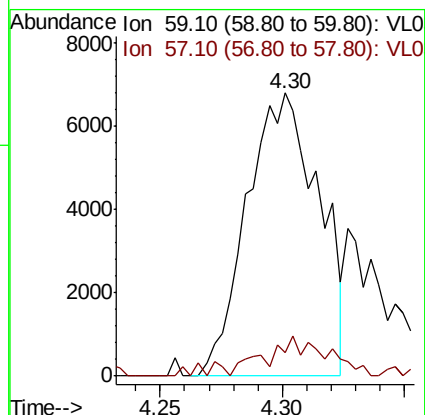
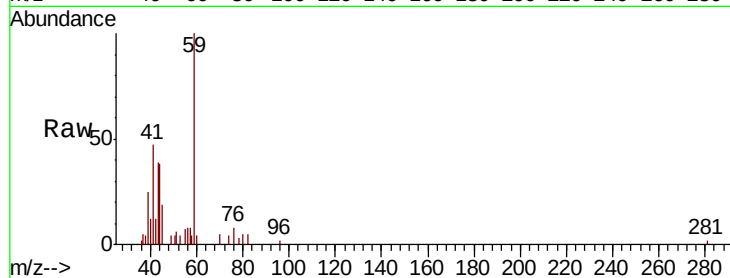


#17

tert-Butyl alcohol
 Concen: 0.086 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.01 min
 Lab File: VL035929.D
 Acq: 13 Nov 2020 1:16

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-3DL

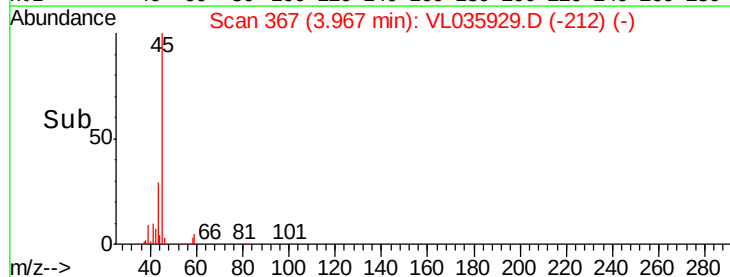
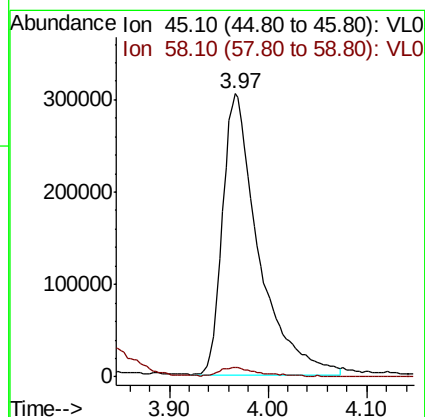
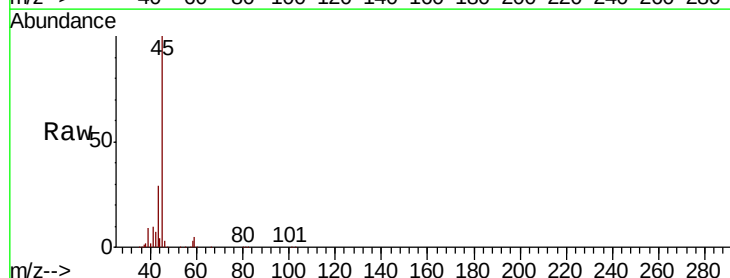
Tot Ion: 59 Resp: 13895
 Ion Ratio Lower Upper
 59 100
 57 14.3 8.2 12.4#

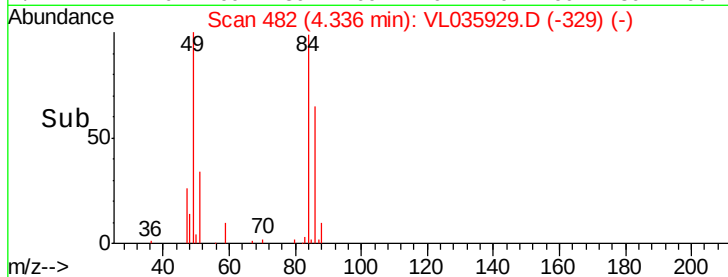
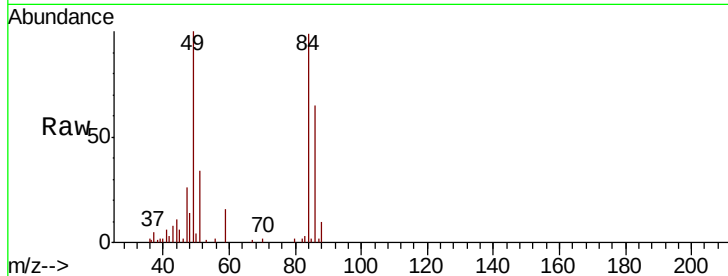
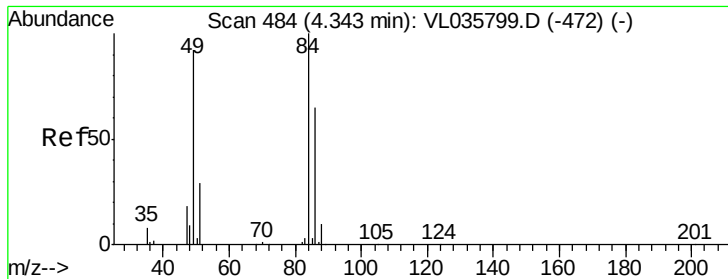


#19

Isopropyl Alcohol
 Concen: 10.352 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL035929.D
 Acq: 13 Nov 2020 1:16

Tgt Ion: 45 Resp: 774720
 Ion Ratio Lower Upper
 45 100
 58 4.3 2.6 3.8#

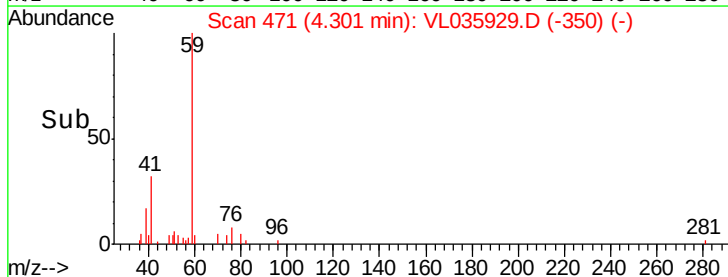
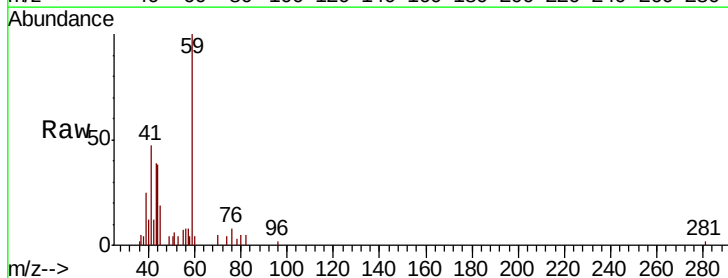
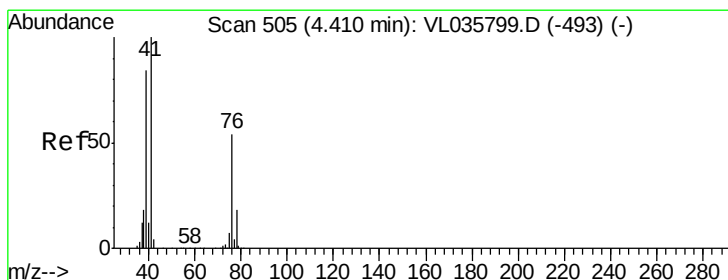
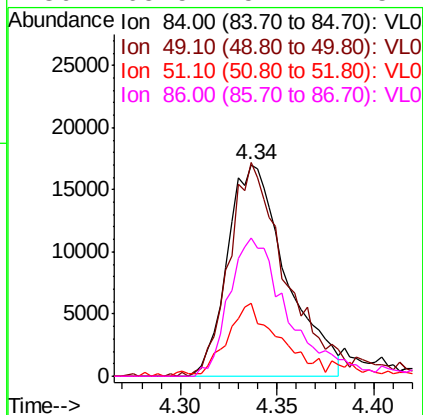




#20
Methylene Chloride
Concen: 0.419 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035929.D
Acq: 13 Nov 2020 1:16

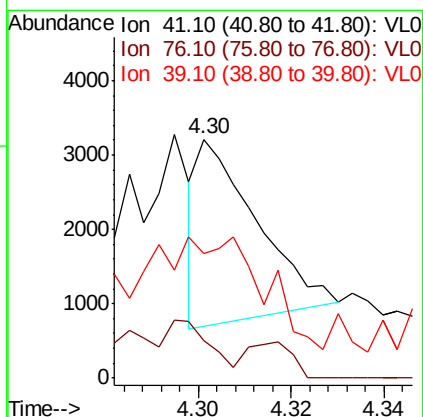
Instrument :
MSVOA_L
ClientSampleId :
LA-3DL

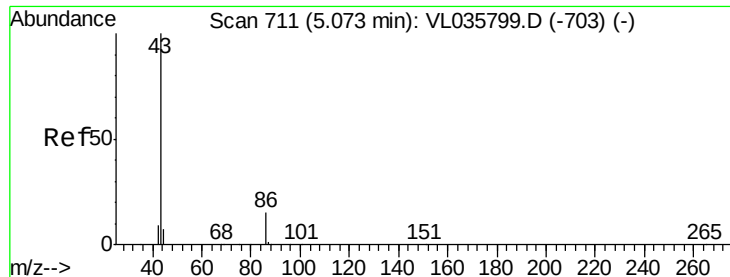
Tot Ion:	84	Resp:	35947
Ion	Ratio	Lower	Upper
84	100		
49	100.9	73.8	110.8
51	33.5	23.0	34.4
86	65.5	52.1	78.1



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.11 min
Lab File: VL035929.D
Acq: 13 Nov 2020 1:16

Tgt Ion:	41	Resp:	2195
Ion	Ratio	Lower	Upper
41	100		
76	2.7	42.6	63.8#
39	201.5	67.0	100.4#





#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

Instrument :

MSVOA_L

ClientSampleId :

LA-3DL

Tot Ion: 43 Resp: 5608

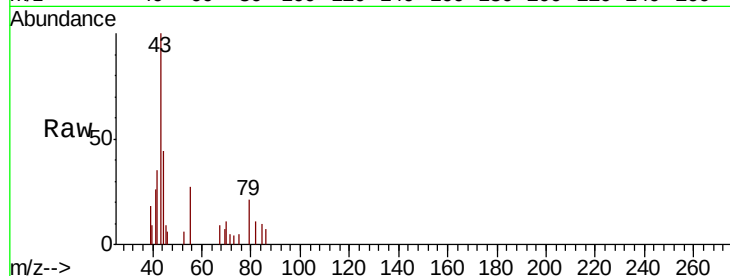
Ion Ratio Lower Upper

43 100

86 9.1 9.8 14.6#

42 31.4 8.1 12.1#

44 17.3 4.2 6.4#

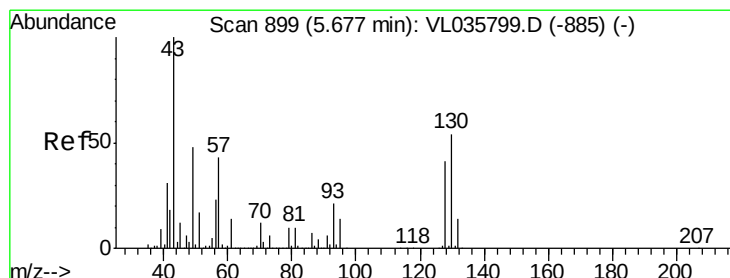
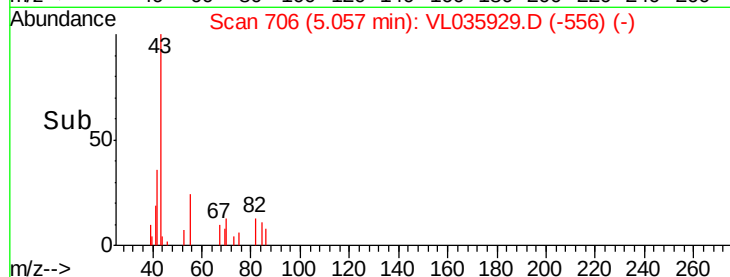
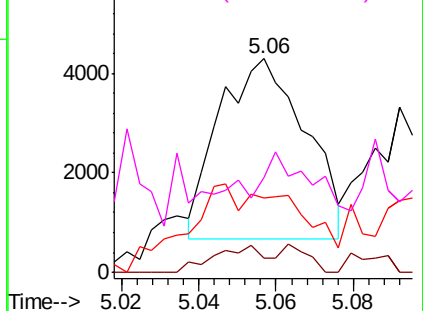


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.060 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

Tgt Ion: 43 Resp: 14513

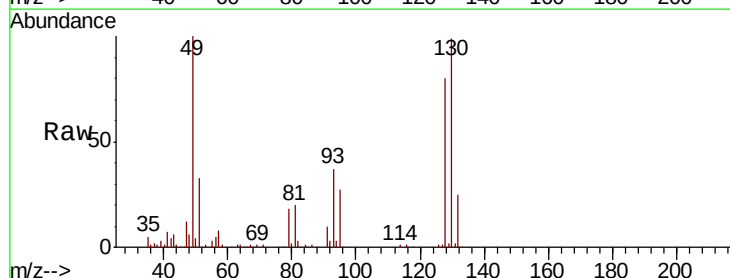
Ion Ratio Lower Upper

43 100

45 11.3 8.5 12.7

61 0.0 10.7 16.1#

70 0.0 8.6 12.8#

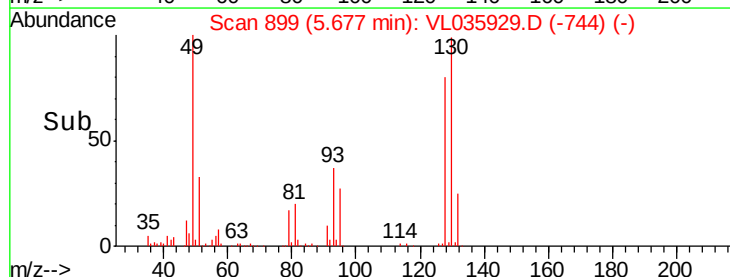
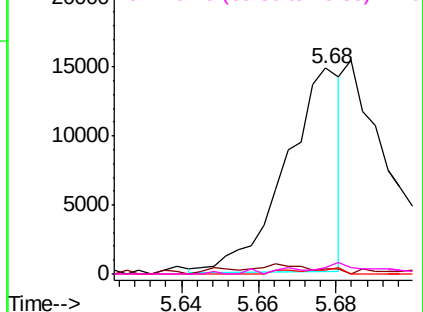


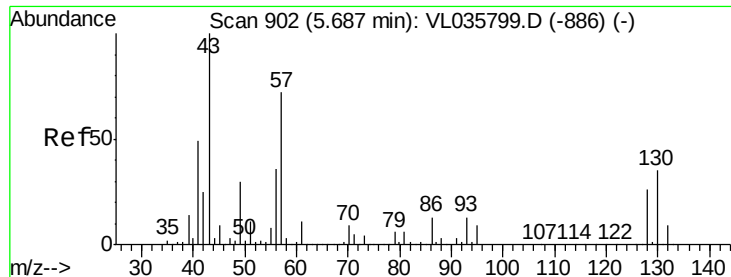
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

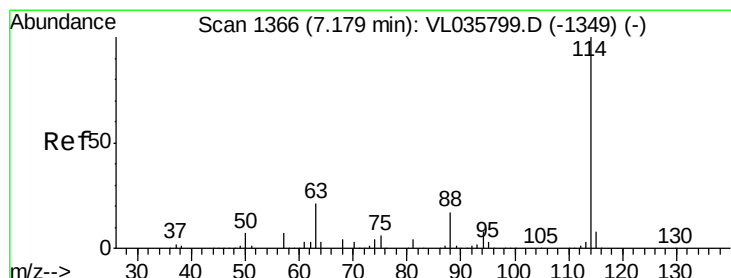
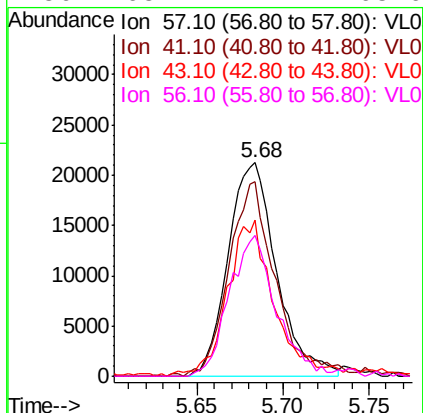
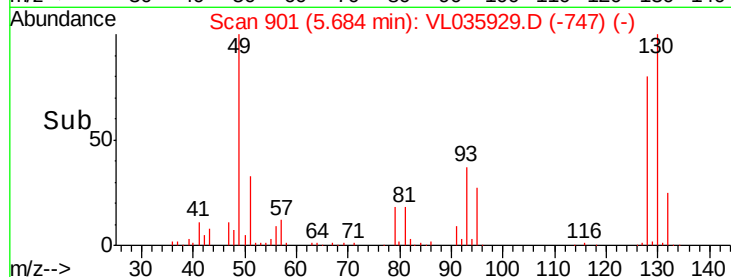
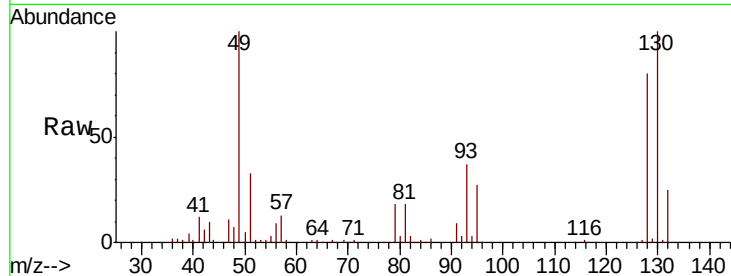




#26
Hexane
Concen: 0.314 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035929.D
Acq: 13 Nov 2020 1:16

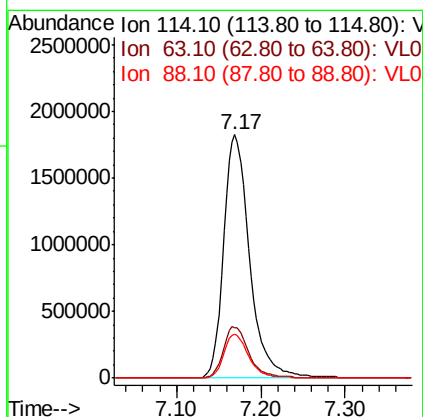
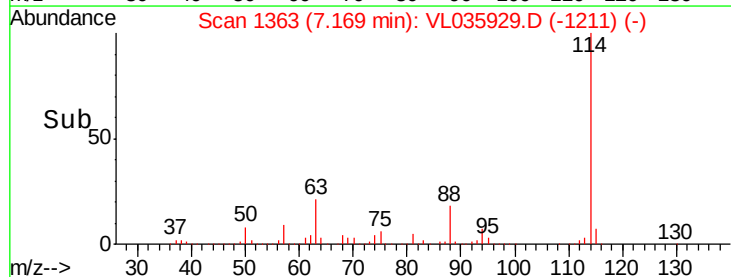
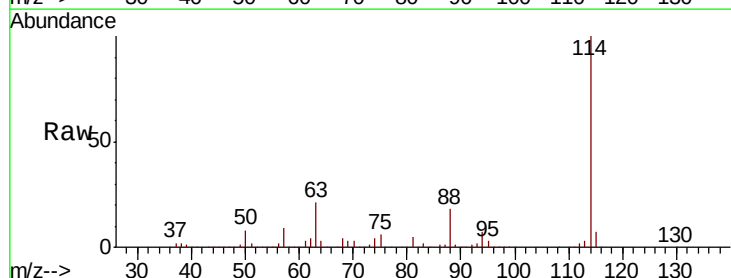
Instrument :
MSVOA_L
ClientSampleId :
LA-3DL

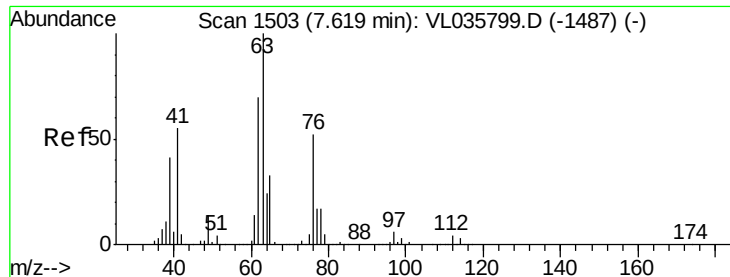
Tot Ion: 57 Resp: 41584
Ion Ratio Lower Upper
57 100
41 89.8 58.9 88.3#
43 73.9 150.2 225.2#
56 65.4 42.4 63.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035929.D
Acq: 13 Nov 2020 1:16

Tgt Ion: 114 Resp: 3911964
Ion Ratio Lower Upper
114 100
63 21.0 16.1 24.1
88 17.6 13.7 20.5

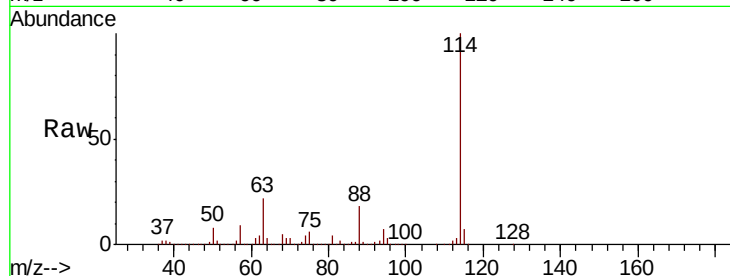




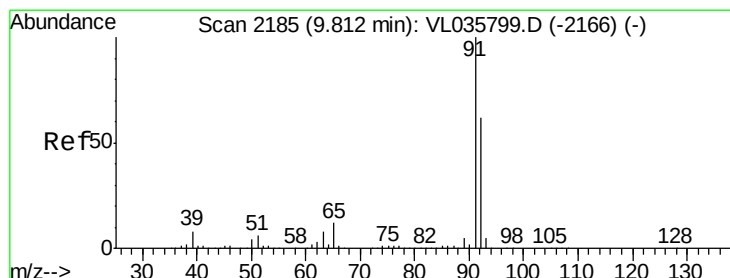
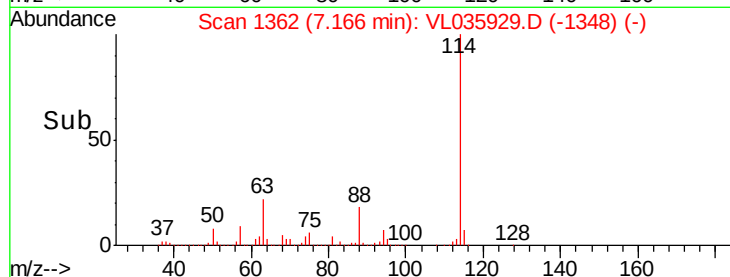
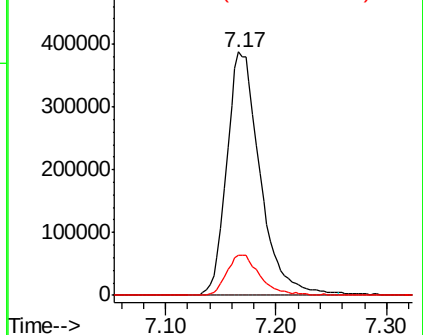
#39
 1,2-Dichloropropane
 Concen: 8.304 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL035929.D
 Acq: 13 Nov 2020 1:16

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-3DL

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	16.7	56.2	84.2#

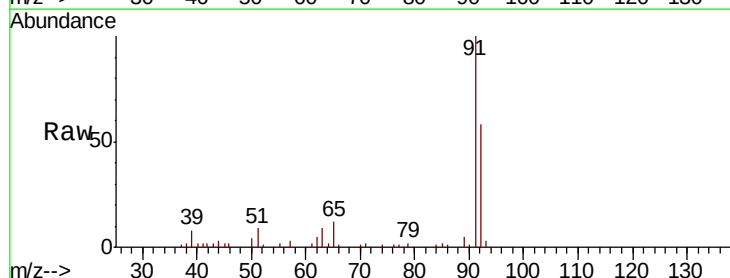


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

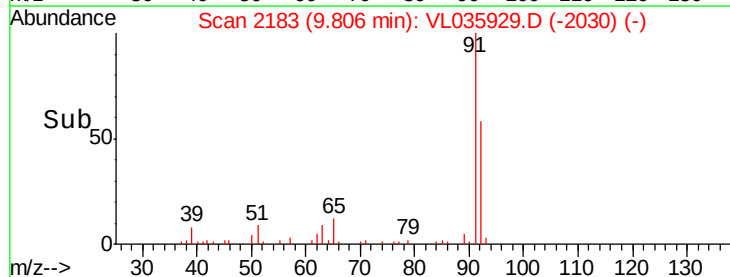
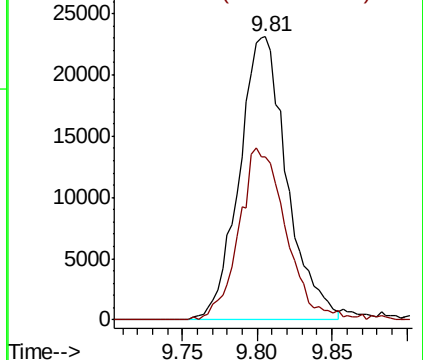


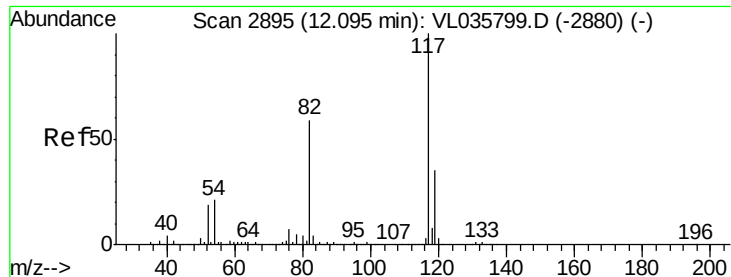
#53
 Toluene
 Concen: 0.146 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. -0.01 min
 Lab File: VL035929.D
 Acq: 13 Nov 2020 1:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.3	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: VL035929.D

Acq: 13 Nov 2020 1:16

Instrument :

MSVOA_L

ClientSampleId :

LA-3DL

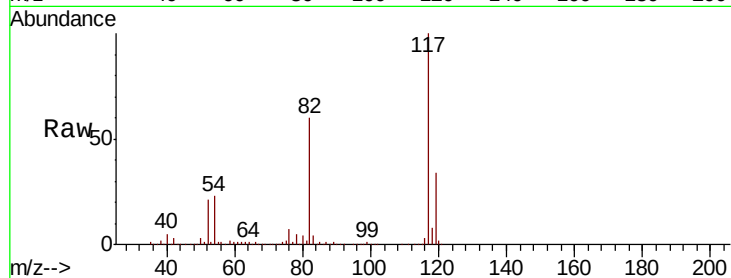
Tot Ion:117 Resp: 3625151

Ion Ratio Lower Upper

117 100

82 61.3 50.6 76.0

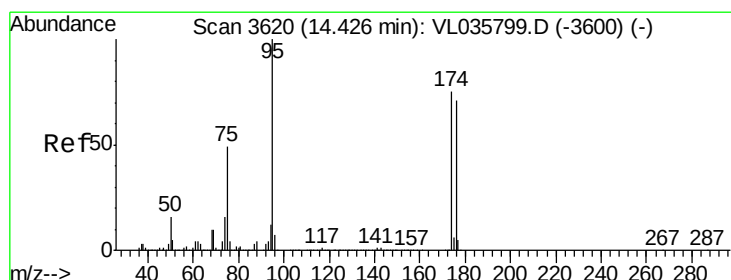
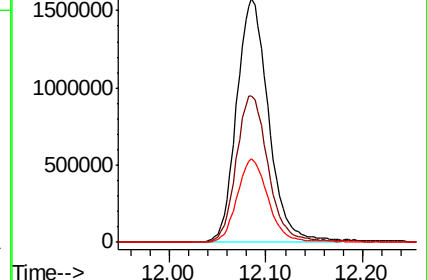
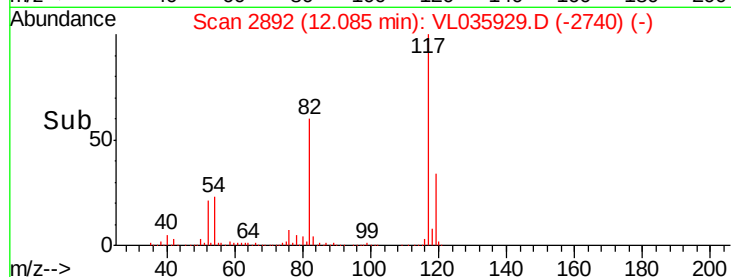
119 34.1 52.6 78.8#



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: 10.124 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035929.D

Acq: 13 Nov 2020 1:16

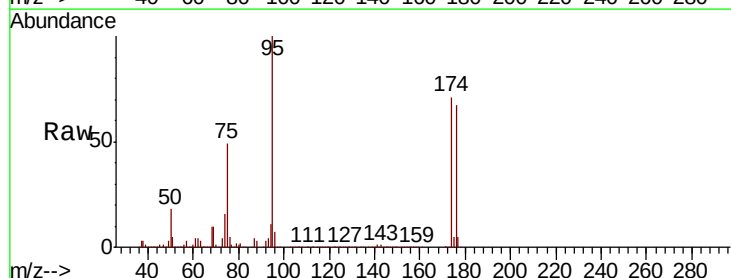
Tgt Ion: 95 Resp: 2607413

Ion Ratio Lower Upper

95 100

174 73.5 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

