

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092120\
 Data File : VL035694.D
 Acq On : 21 Sep 2020 20:16
 Operator : SY/AP
 Sample : L3983-07DL2 400X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

Quant Time: Sep 22 01:29:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1021562	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3857726	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3874289	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2840740	10.33	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

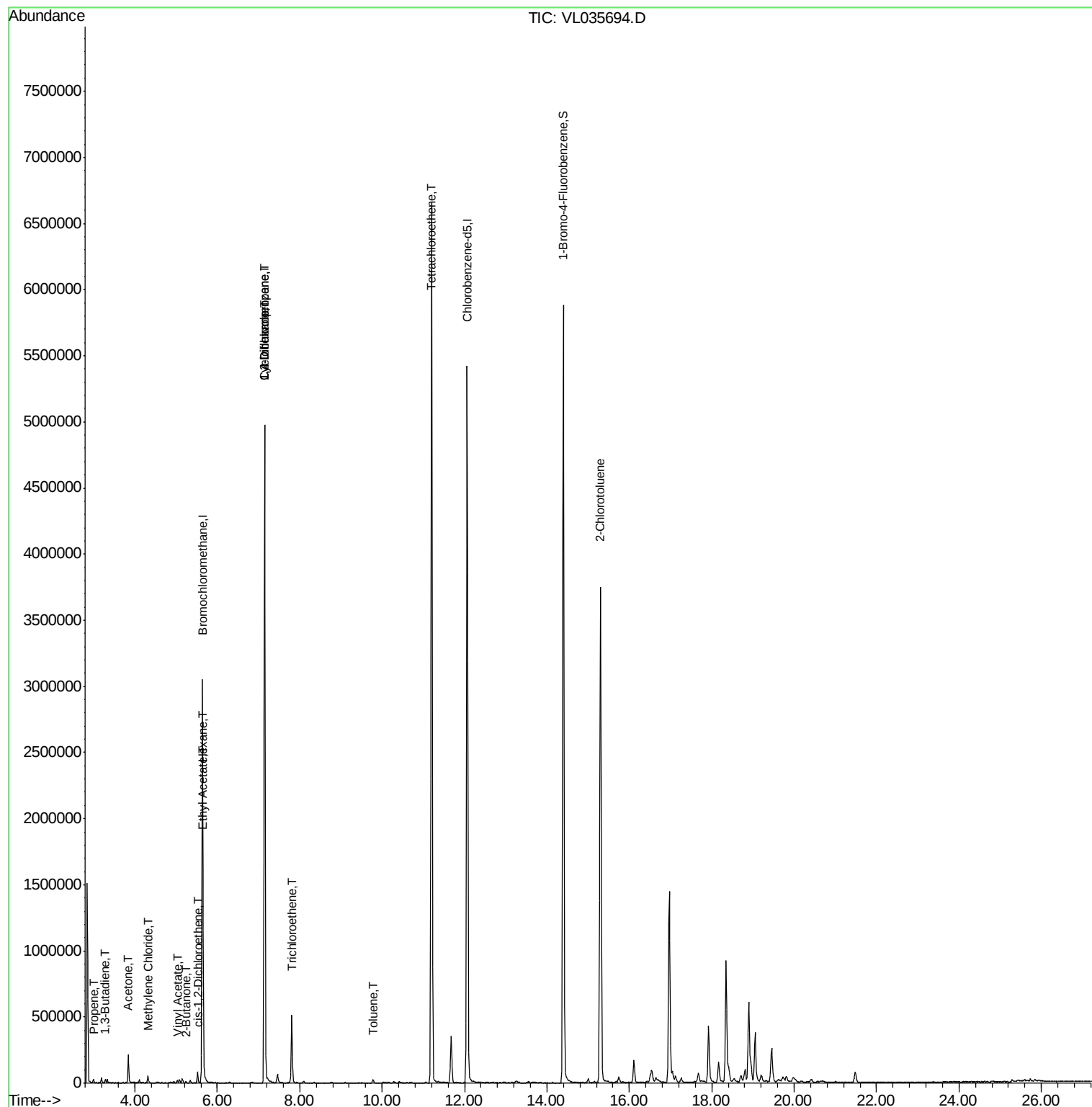
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	8377	0.192	ppbv	92
15) Acetone	3.84	43	191393	1.699	ppbv	96
16) 1,3-Butadiene	3.29	39	2371	0.057	ppbv #	1
20) Methylene Chloride	4.32	84	22009	0.262	ppbv	95
23) Vinyl Acetate	5.03	43	5557	0.038	ppbv #	1
25) Ethyl Acetate	5.66	43	8114	0.041	ppbv #	71
26) Hexane	5.66	57	11339	0.101	ppbv #	46
30) Cyclohexane	7.16	84	6813	0.056	ppbv #	1
31) cis-1,2-Dichloroethene	5.52	61	41602	0.360	ppbv	92
34) 2-Butanone	5.24	43	12479	0.109	ppbv	95
38) Trichloroethene	7.81	130	177558	1.224	ppbv	94
39) 1,2-Dichloropropane	7.15	63	741845	8.794	ppbv #	33
52) Tetrachloroethene	11.20	164	1805733	12.378	ppbv	96
53) Toluene	9.78	91	18682	0.059	ppbv	94
71) 2-Chlorotoluene	15.30	91	1007784	2.562	ppbv #	36

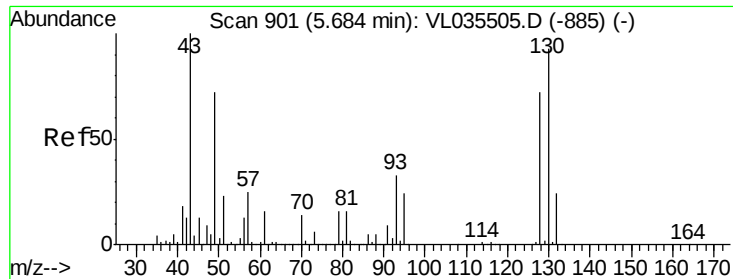
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092120\
Data File : VL035694.D
Acq On : 21 Sep 2020 20:16
Operator : SY/AP
Sample : L3983-07DL2 400X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

Quant Time: Sep 22 01:29:36 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

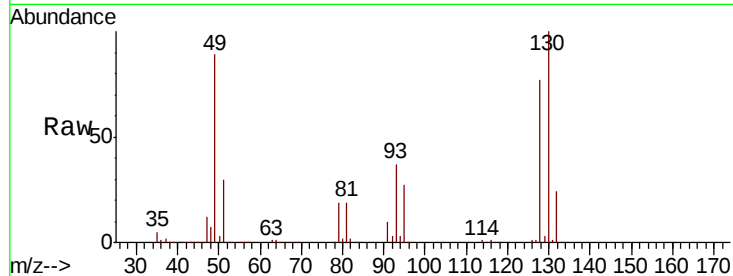
Tot Ion: 49 Resp: 1021562

Ion Ratio Lower Upper

49 100

128 86.8 50.0 150.1

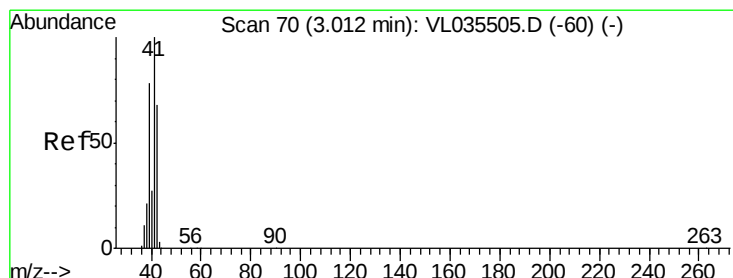
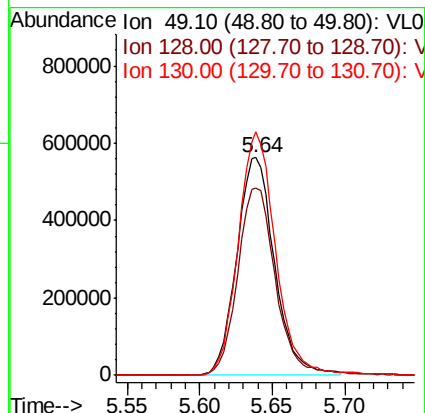
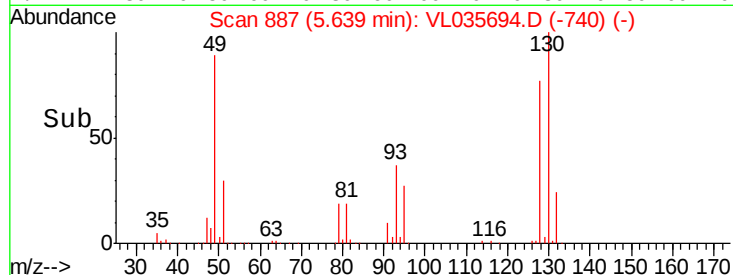
130 111.4 64.4 193.2



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



#9

Propene

Concen: 0.192 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL035694.D

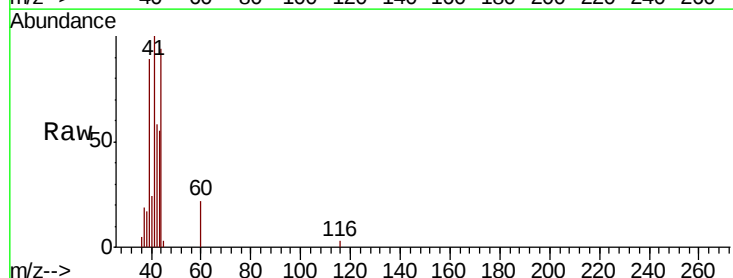
Acq: 21 Sep 2020 20:16

Tgt Ion: 41 Resp: 8377

Ion Ratio Lower Upper

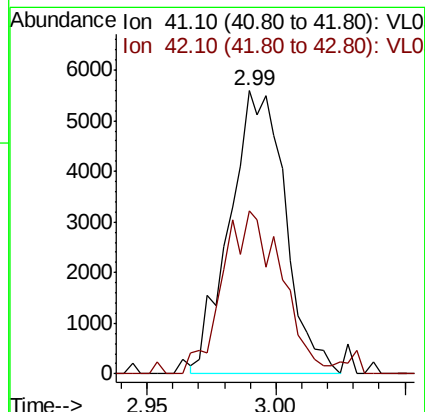
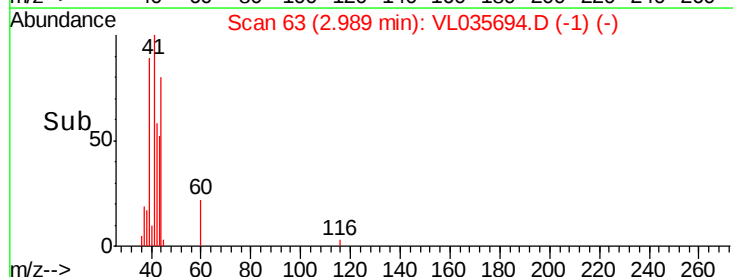
41 100

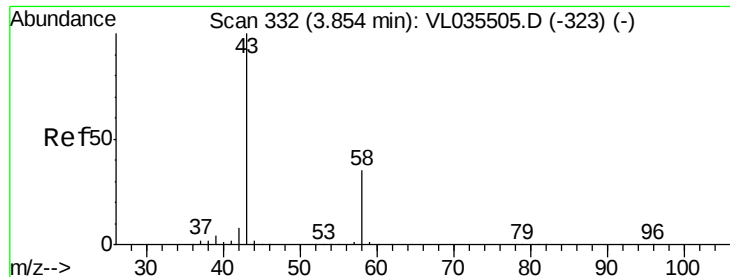
42 63.8 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 1.699 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

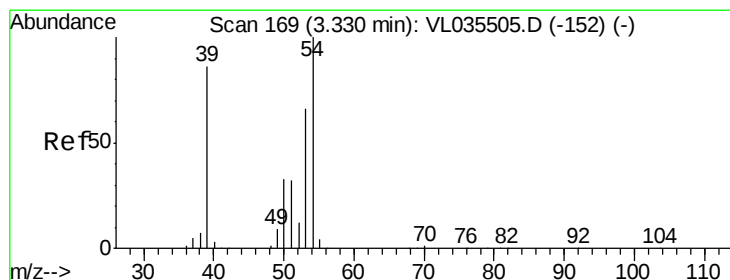
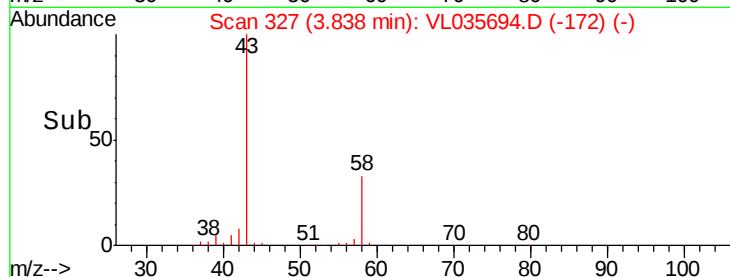
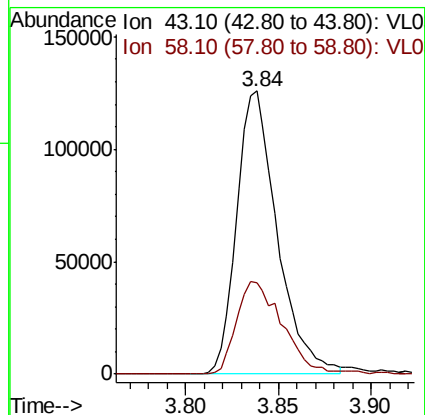
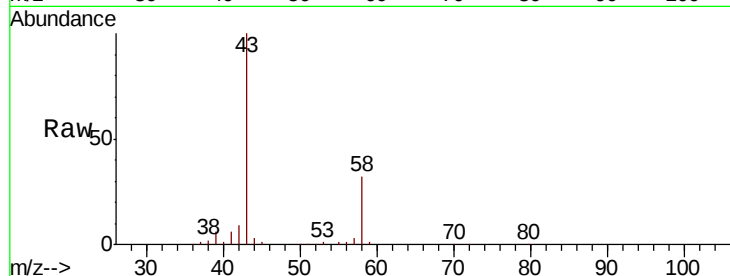
SV-10DL2

Tot Ion: 43 Resp: 191393

Ion Ratio Lower Upper

43 100

58 38.0 28.4 42.6



#16

1,3-Butadiene

Concen: 0.057 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.03 min

Lab File: VL035694.D

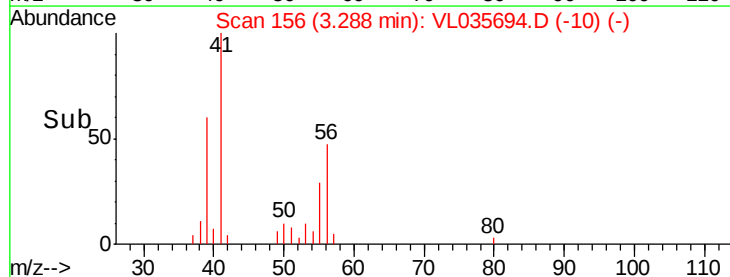
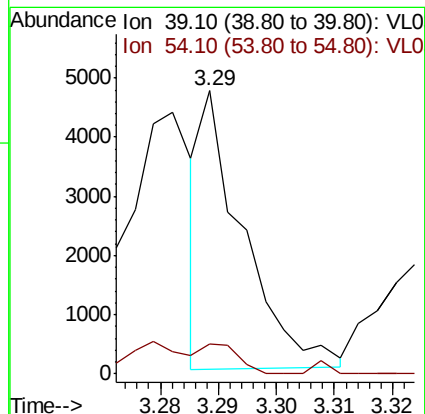
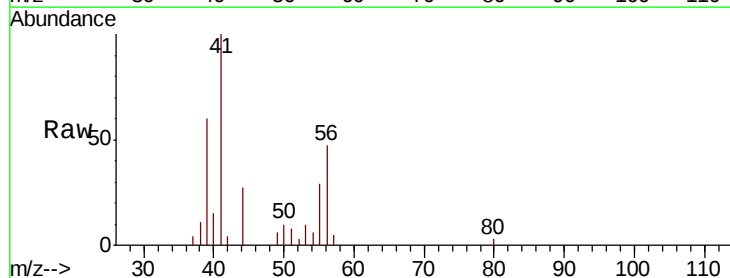
Acq: 21 Sep 2020 20:16

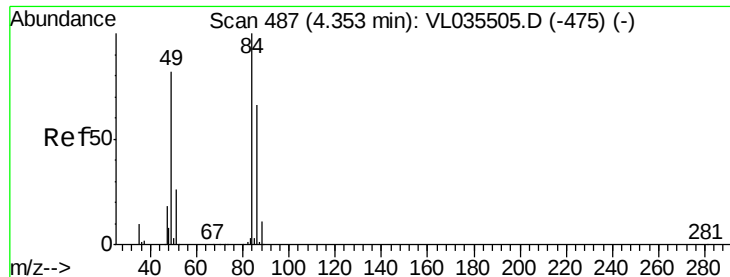
Tgt Ion: 39 Resp: 2371

Ion Ratio Lower Upper

39 100

54 0.0 88.4 132.6#

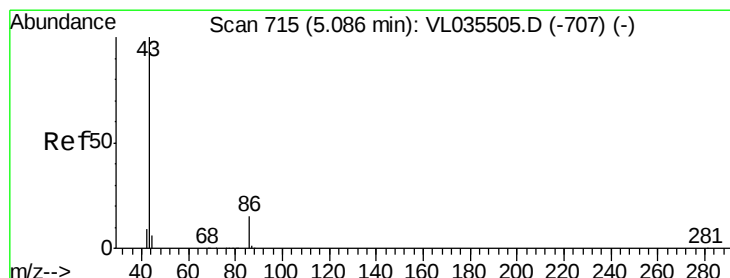
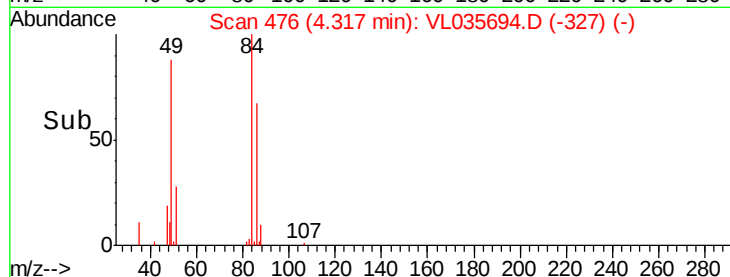
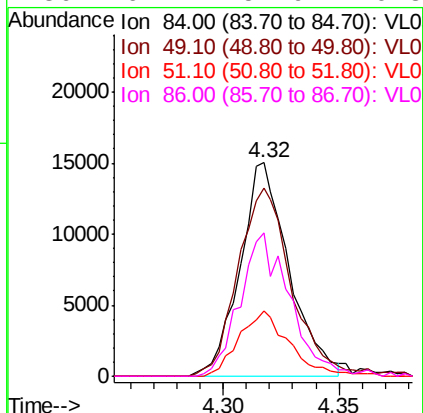
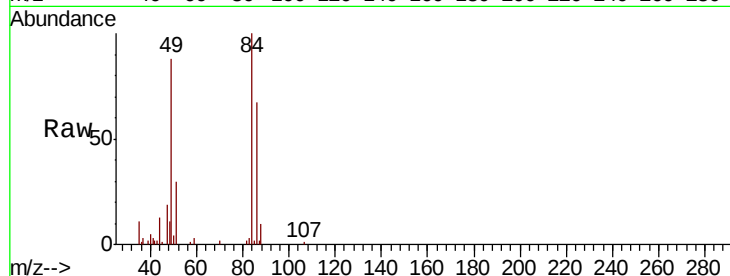




#20
Methvlene Chloride
Concen: 0.262 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.02 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

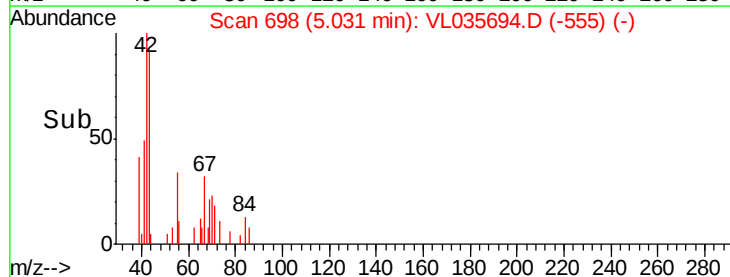
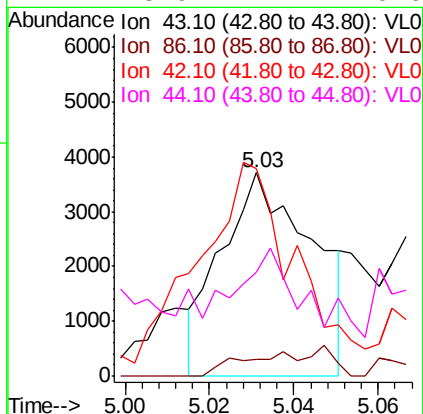
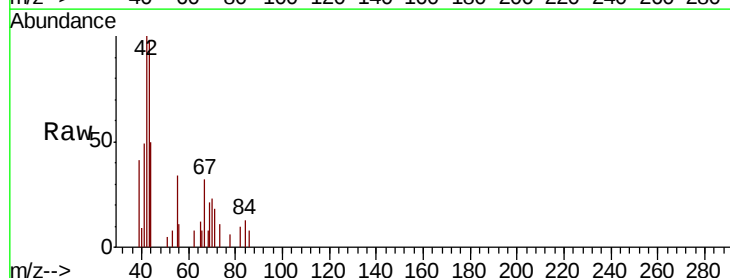
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

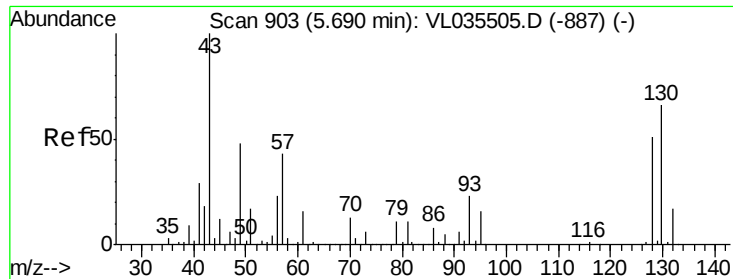
Tot Ion:	84	Resp:	22009
Ion	Ratio	Lower	Upper
84	100		
49	88.1	65.4	98.0
51	30.5	21.5	32.3
86	67.1	52.9	79.3



#23
Vinyl Acetate
Concen: 0.038 ppbv
RT: 5.03 min Scan# 698
Delta R.T. -0.04 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

Tgt Ion:	43	Resp:	5557
Ion	Ratio	Lower	Upper
43	100		
86	11.7	10.6	16.0
42	114.9	7.5	11.3#
44	18.9	4.4	6.6#





#25

Ethyl Acetate

Concen: 0.041 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

Tot Ion: 43 Resp: 8114

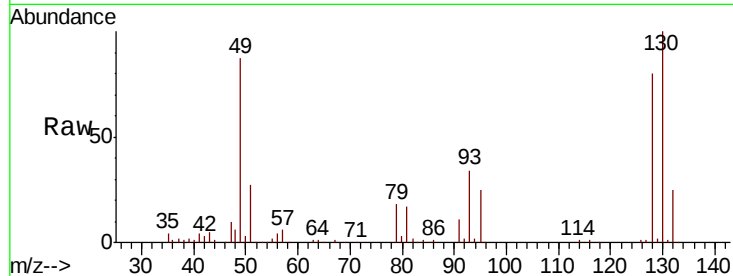
Ion Ratio Lower Upper

43 100

45 2.0 8.4 12.6#

61 0.0 10.6 16.0#

70 0.8 9.4 14.2#



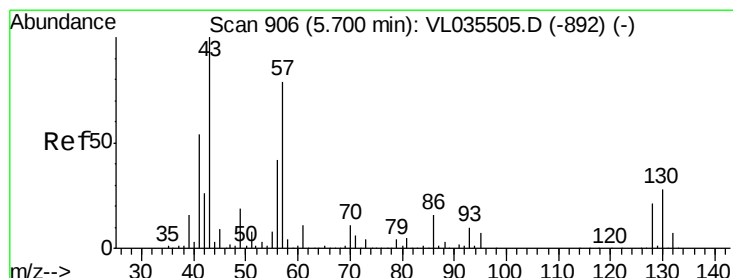
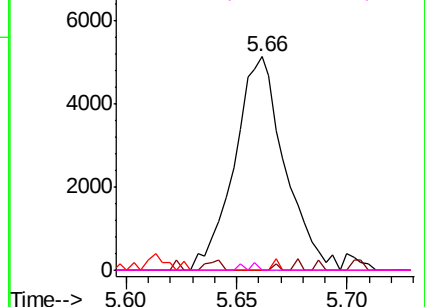
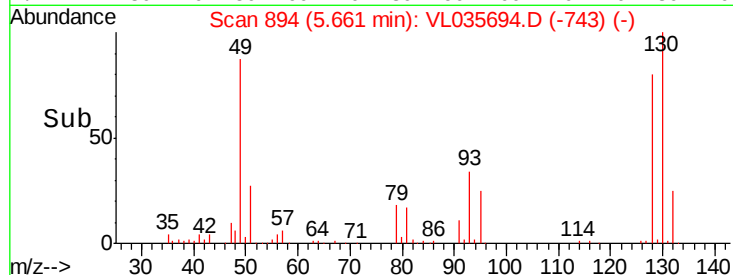
Abundance

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: 0.101 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Tgt Ion: 57 Resp: 11339

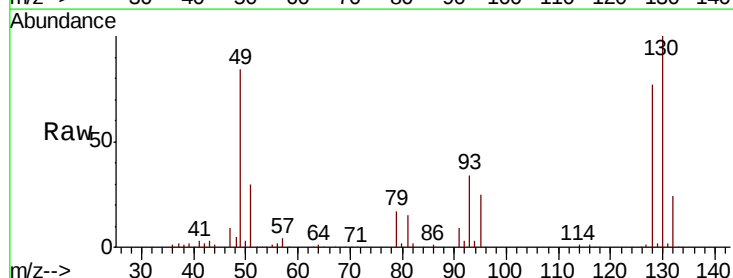
Ion Ratio Lower Upper

57 100

41 97.6 55.9 83.9#

43 73.3 141.8 212.8#

56 62.4 41.8 62.8



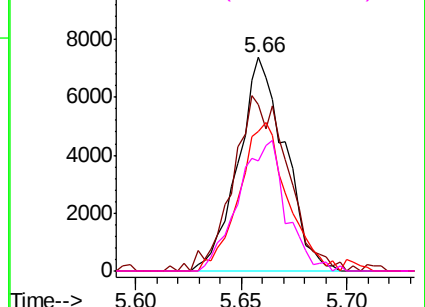
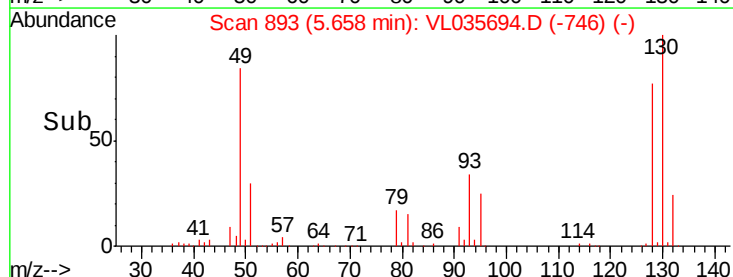
Abundance

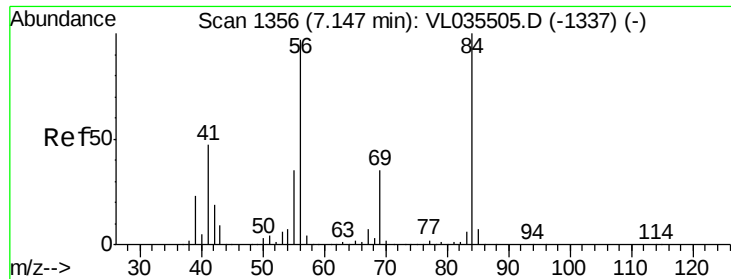
Ion 57.10 (56.80 to 57.80): VL0

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

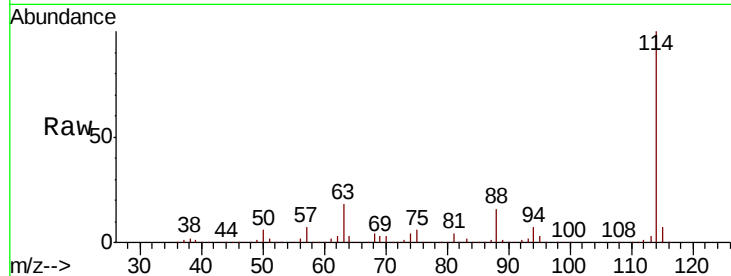




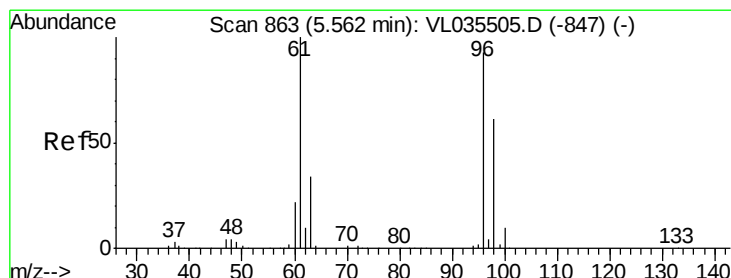
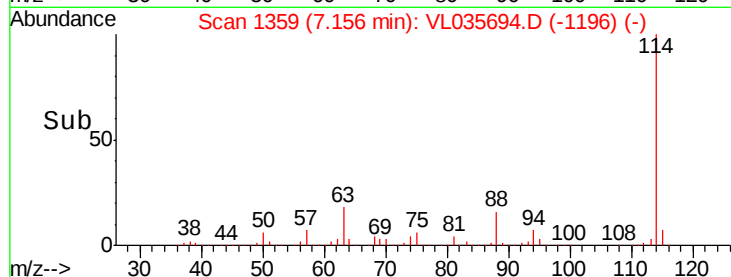
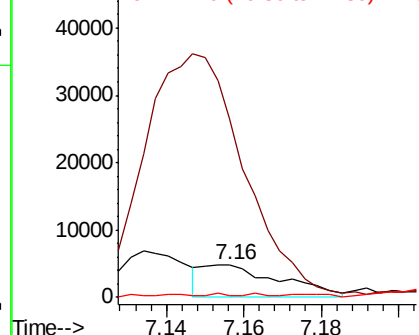
#30
Cvclohexane
Concen: 0.056 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. 0.03 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

Tot Ion: 84 Resp: 6813
Ion Ratio Lower Upper
84 100
56 970.9 80.1 120.1#
41 14.3 38.1 57.1#

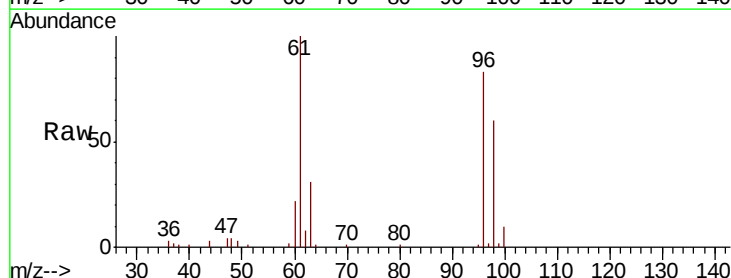


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

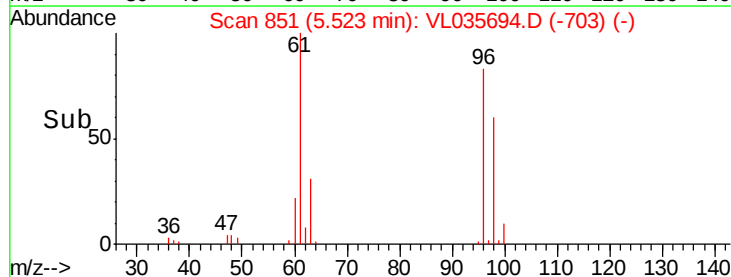
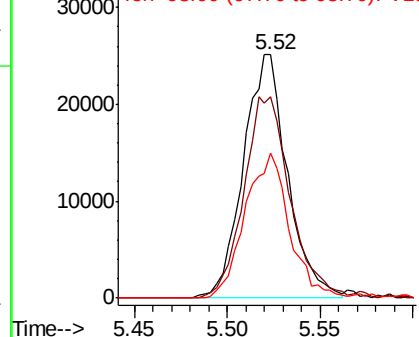


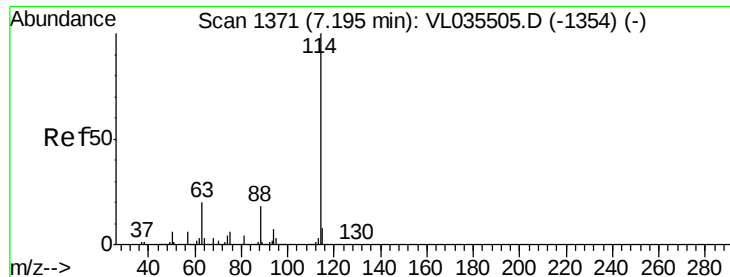
#31
cis-1,2-Dichloroethene
Concen: 0.360 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

Tgt Ion: 61 Resp: 41602
Ion Ratio Lower Upper
61 100
96 82.6 74.4 111.6
98 59.6 49.2 73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

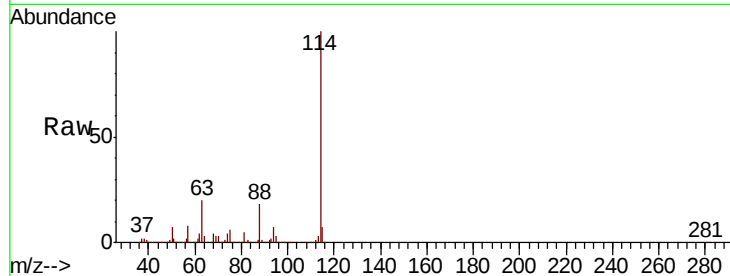




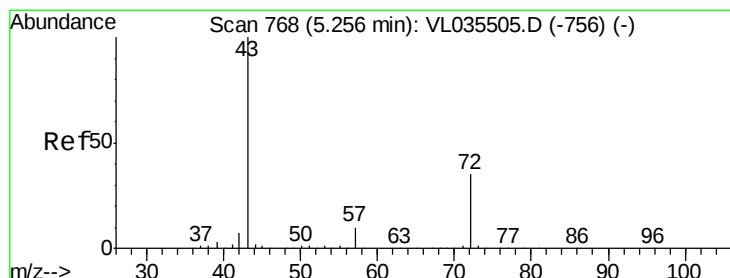
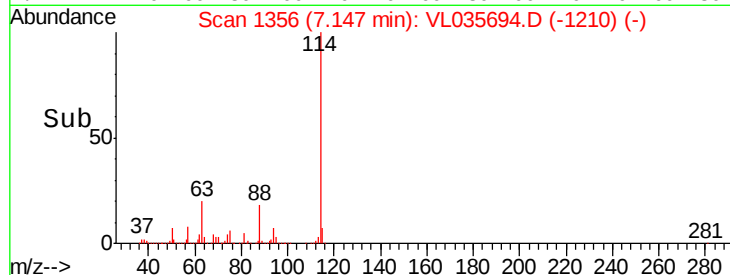
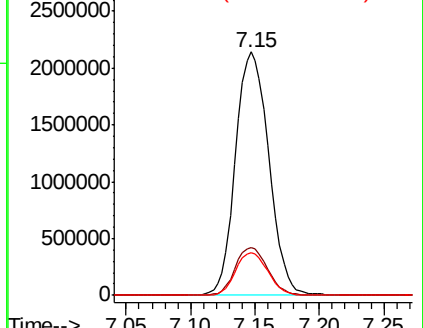
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL035694.D
 Acq: 21 Sep 2020 20:16

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

Tot Ion:114 Resp: 3857726
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.1 13.4 20.2

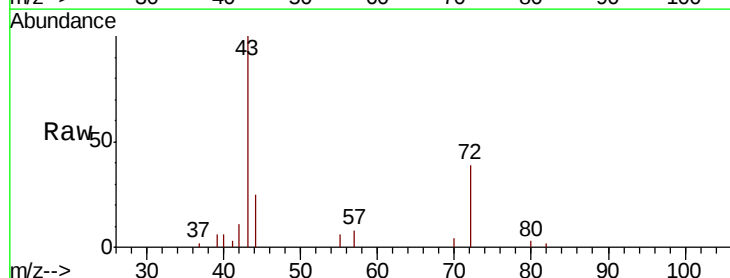


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

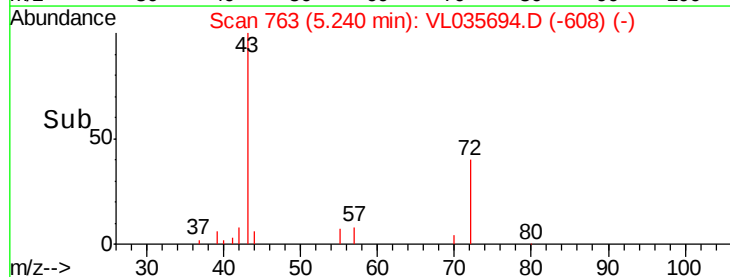
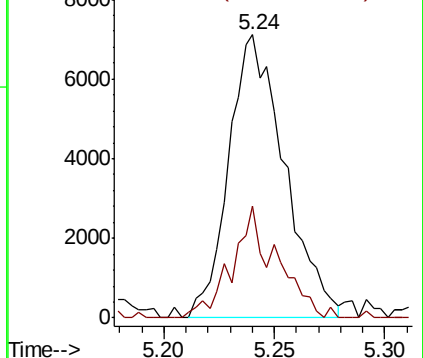


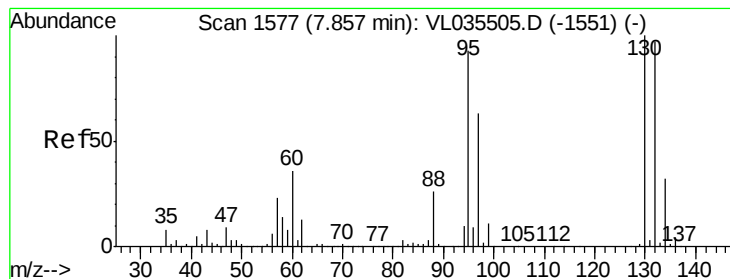
#34
 2-Butanone
 Concen: 0.109 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL035694.D
 Acq: 21 Sep 2020 20:16

Tgt Ion: 43 Resp: 12479
 Ion Ratio Lower Upper
 43 100
 72 31.5 27.7 41.5



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





#38

Trichloroethene

Concen: 1.224 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.03 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

Tot Ion:130 Resp: 177558

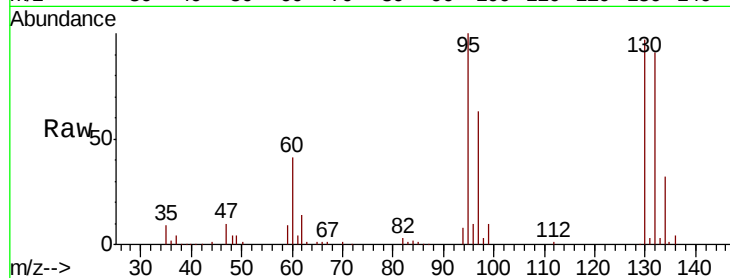
Ion Ratio Lower Upper

130 100

95 103.1 74.6 112.0

132 93.9 77.6 116.4

97 65.4 50.6 76.0

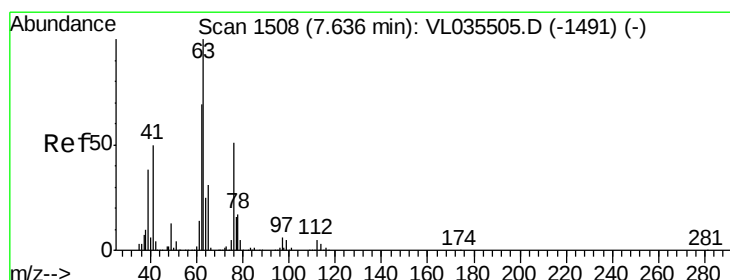
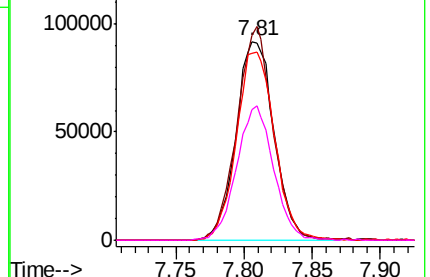
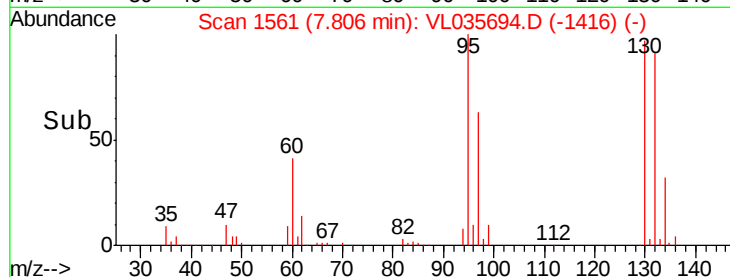


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.794 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

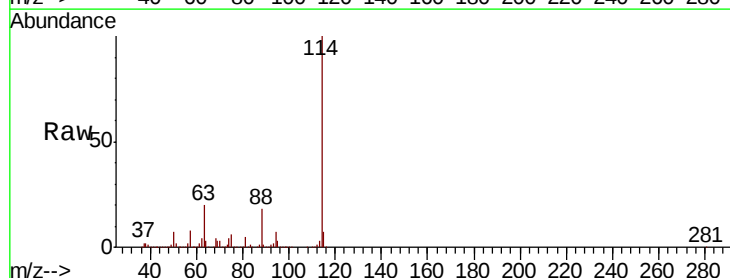
Tgt Ion: 63 Resp: 741845

Ion Ratio Lower Upper

63 100

41 0.1 40.0 60.0#

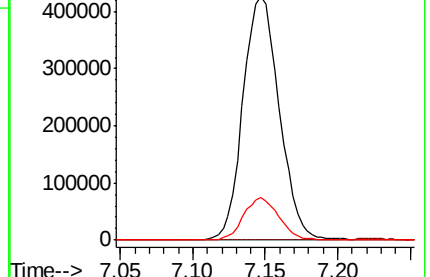
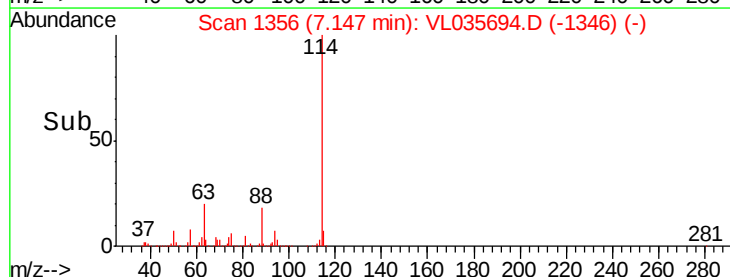
62 17.8 55.4 83.0#

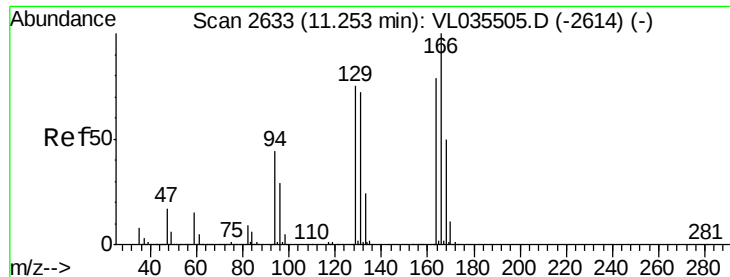


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 12.378 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.03 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

Tot Ion:164 Resp: 1805733

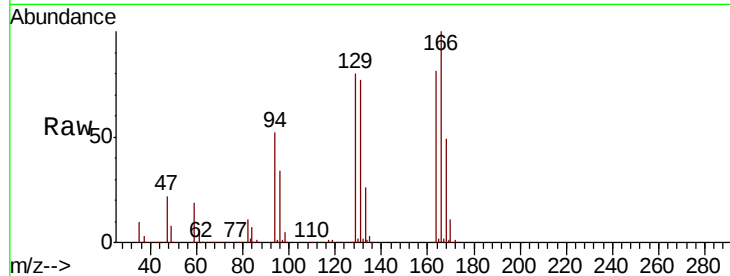
Ion Ratio Lower Upper

164 100

166 123.3 100.9 151.3

129 98.3 75.3 112.9

131 95.4 73.0 109.4

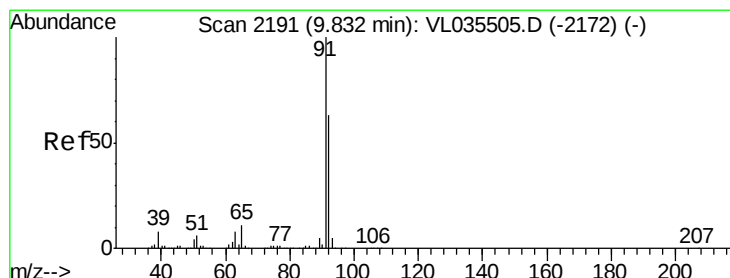
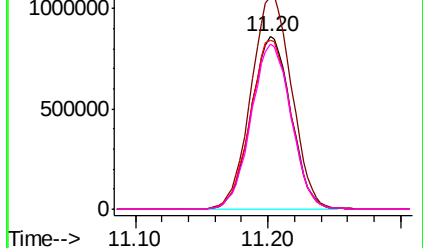
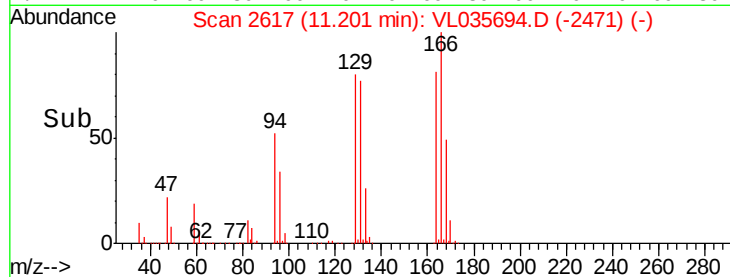


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.059 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL035694.D

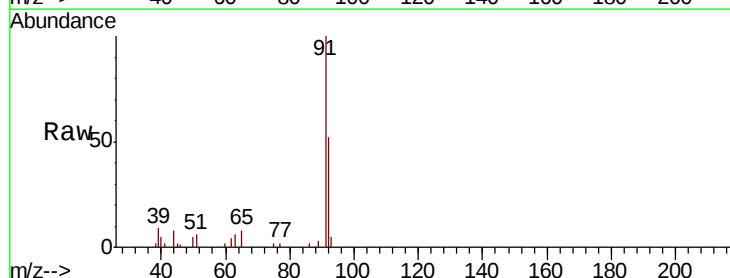
Acq: 21 Sep 2020 20:16

Tgt Ion: 91 Resp: 18682

Ion Ratio Lower Upper

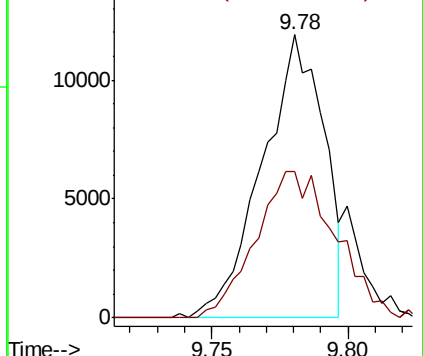
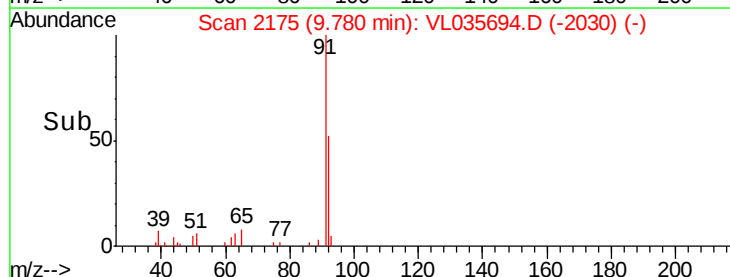
91 100

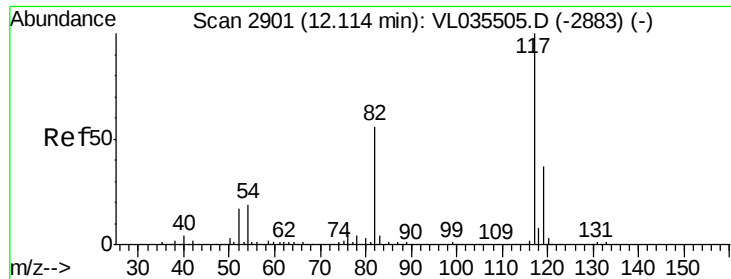
92 67.0 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

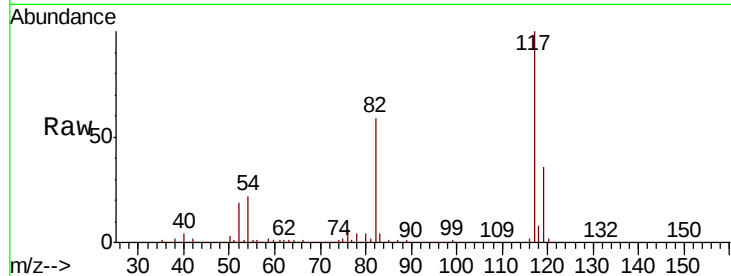




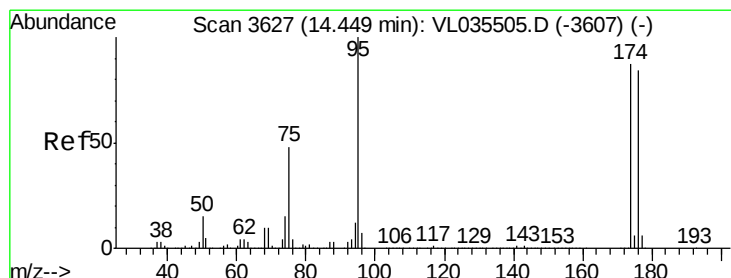
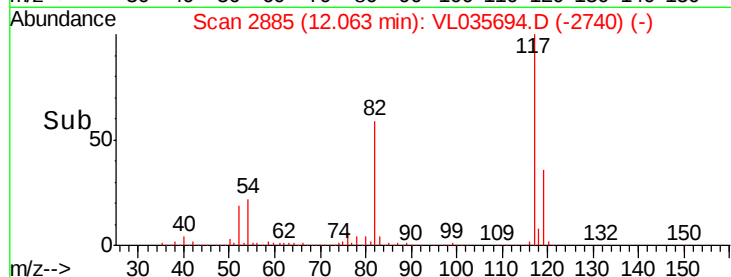
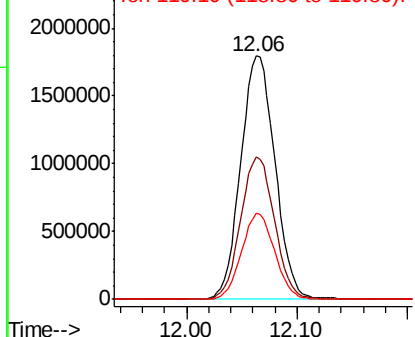
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

Tot Ion:117 Resp: 3874289
Ion Ratio Lower Upper
117 100
82 57.9 41.6 62.4
119 34.3 29.3 43.9

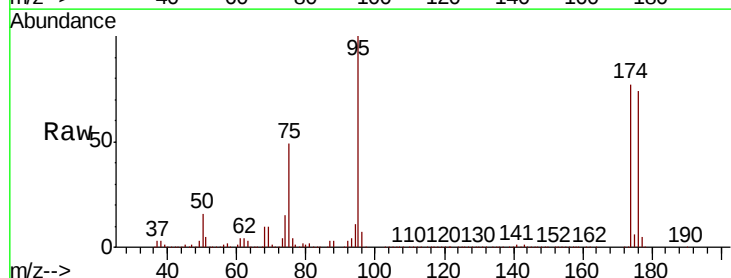


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

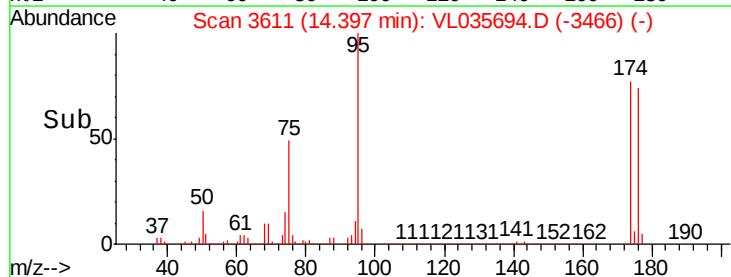
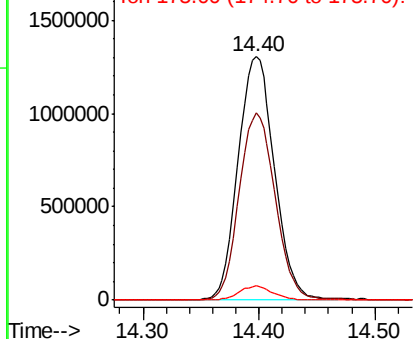


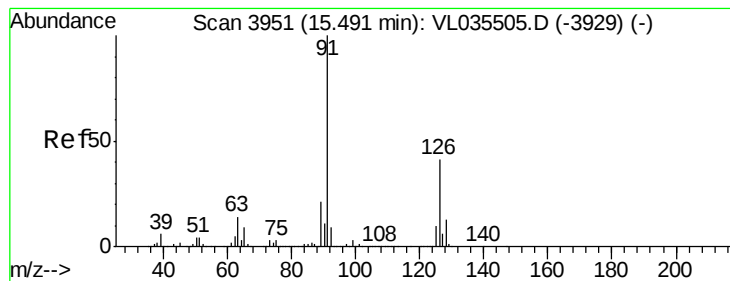
#68
1-Bromo-4-Fluorobenzene
Concen: 10.325 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL035694.D
Acq: 21 Sep 2020 20:16

Tgt Ion: 95 Resp: 2840740
Ion Ratio Lower Upper
95 100
174 77.0 69.6 104.4
175 5.5 5.1 7.7



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





#71

2-Chlorotoluene

Concen: 2.562 ppbv

RT: 15.30 min Scan# 3892

Delta R.T. -0.17 min

Lab File: VL035694.D

Acq: 21 Sep 2020 20:16

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

Tot Ion: 91 Resp: 1007784

Ion Ratio Lower Upper

91 100

126 0.0 15.6 62.6#

