

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035824.D
 Acq On : 4 Nov 2020 4:24
 Operator : SY/AP
 Sample : L4610-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 04 05:18:43 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	5.64	49	1133560	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	5025018	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.06	117	4624605	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3325647	10.12	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

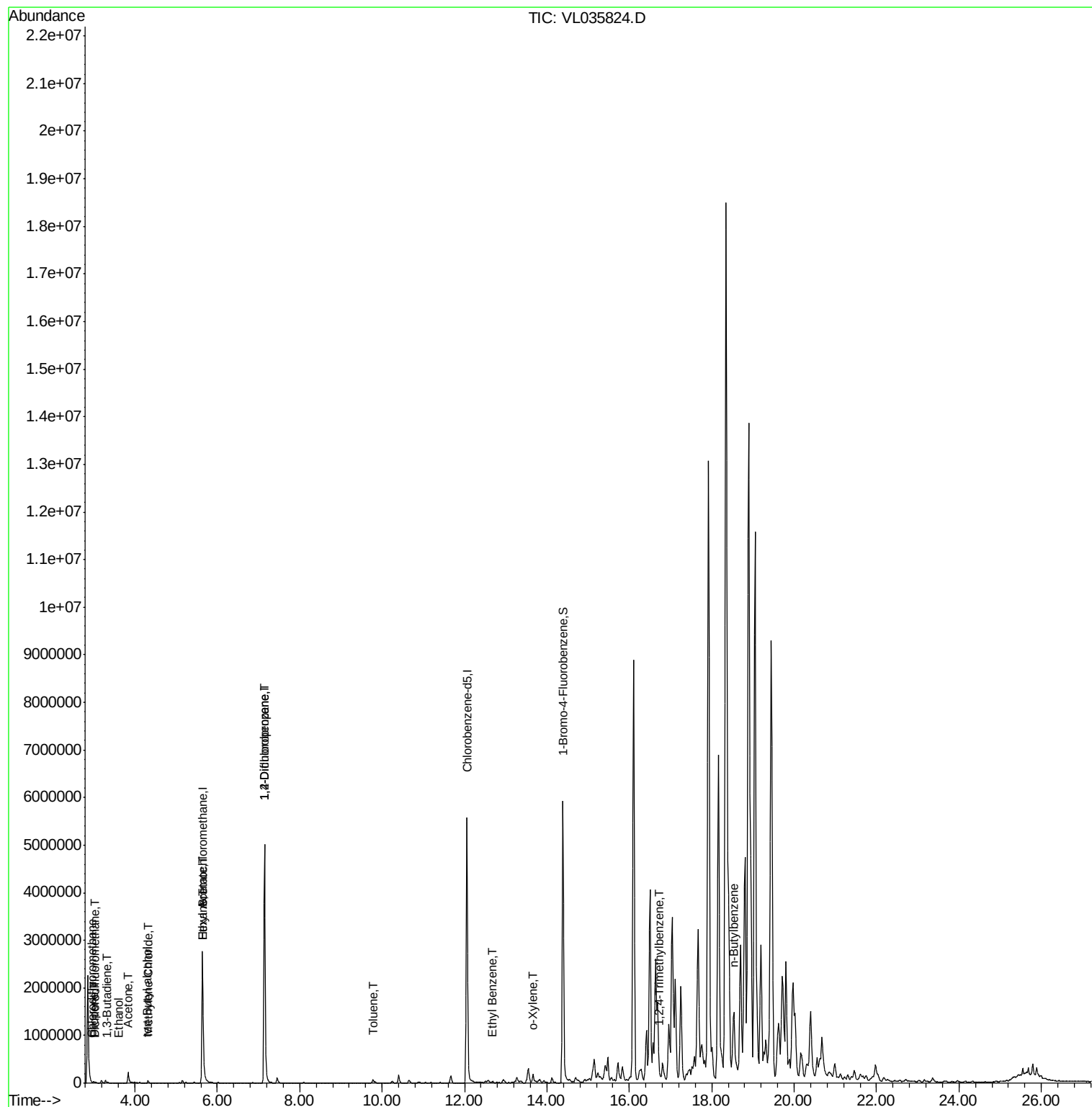
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	13495	0.063	ppbv	100
3) Chlorodifluoromethane	2.97	51	5331	0.039	ppbv	95
9) Propene	2.99	41	9113	0.183	ppbv	96
13) Ethanol	3.59	45	2368	0.220	ppbv #	35
15) Acetone	3.83	43	287760	2.374	ppbv	90
16) 1,3-Butadiene	3.32	39	1675	0.032	ppbv #	1
17) tert-Butyl alcohol	4.30	59	5334	0.033	ppbv #	82
20) Methylene Chloride	4.31	84	9293	0.109	ppbv	96
25) Ethyl Acetate	5.66	43	10271	0.043	ppbv #	72
26) Hexane	5.66	57	15691	0.119	ppbv #	47
39) 1,2-Dichloropropane	7.14	63	920783	7.321	ppbv #	30
53) Toluene	9.77	91	64660	0.143	ppbv	96
58) Ethyl Benzene	12.68	91	33462	0.059	ppbv	90
60) o-Xylene	13.66	91	33963	0.073	ppbv	97
70) n-Butylbenzene	18.53	91	41552	0.059	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	32380	0.059	ppbv #	70

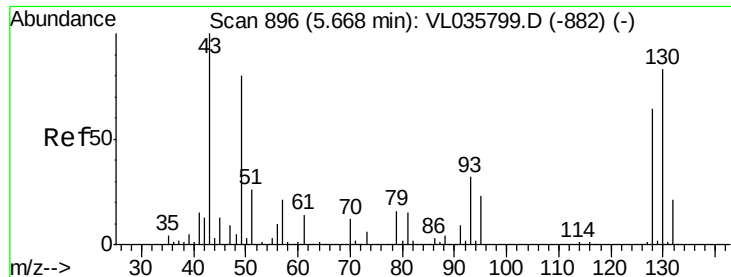
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.64 min Scan# 886

Delta R.T. -0.03 min

Lab File: VL035824.D

Acq: 4 Nov 2020 4:24

Instrument :

MSVOA_L

ClientSampleId :

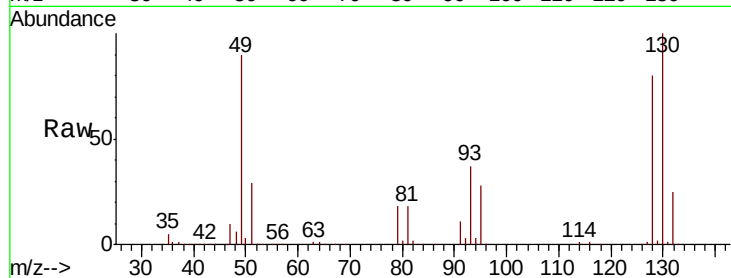
Tot Ion: 49 Resp: 1133560

Ion Ratio Lower Upper

49 100

128 92.4 41.5 124.6

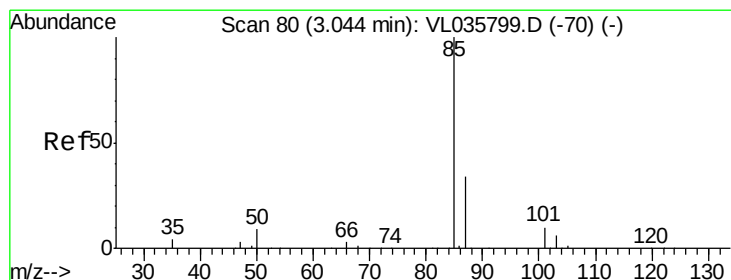
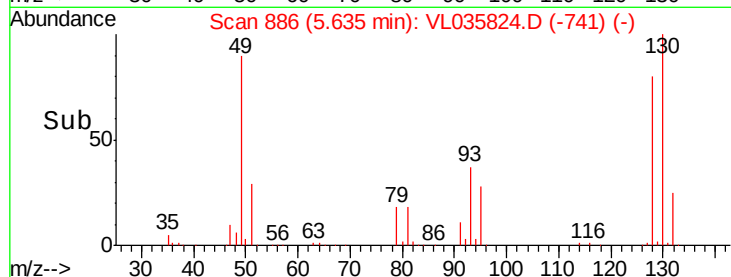
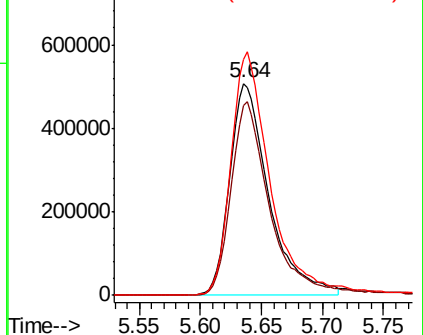
130 118.2 53.7 161.1



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: 0.063 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035824.D

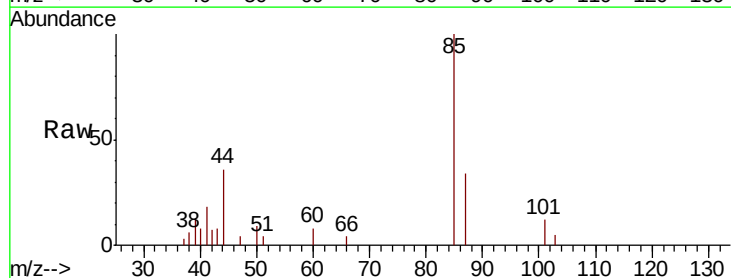
Acq: 4 Nov 2020 4:24

Tgt Ion: 85 Resp: 13495

Ion Ratio Lower Upper

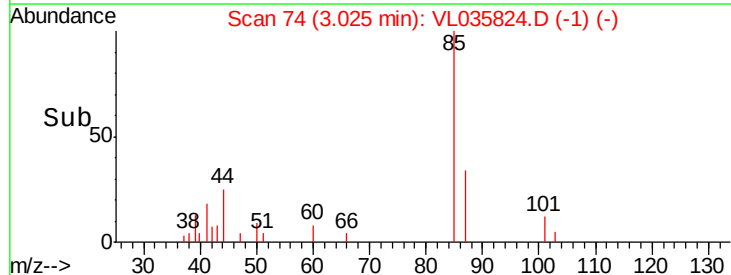
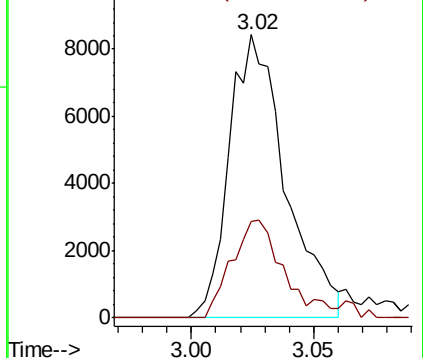
85 100

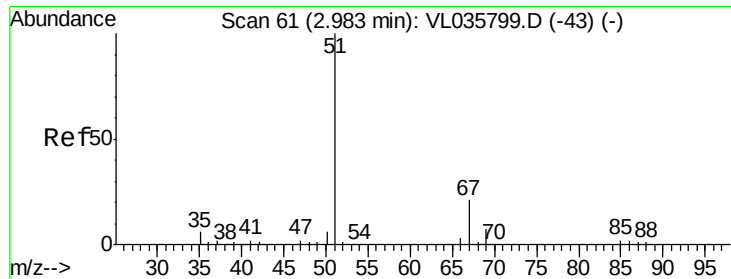
87 34.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

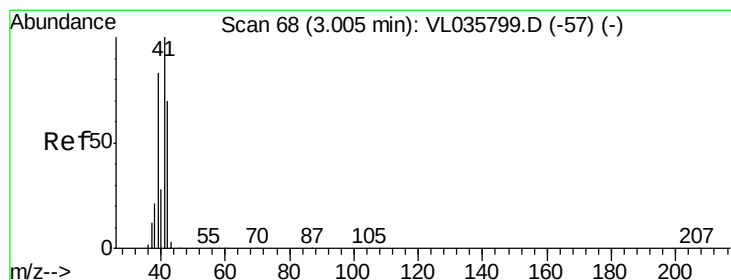
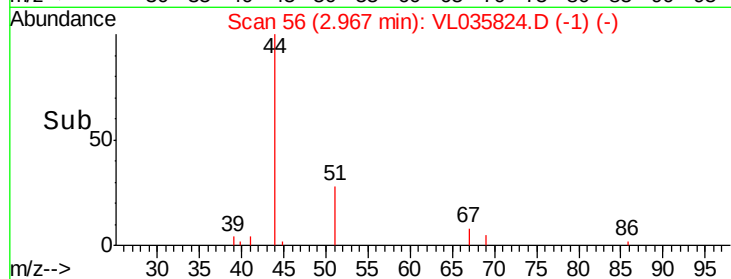
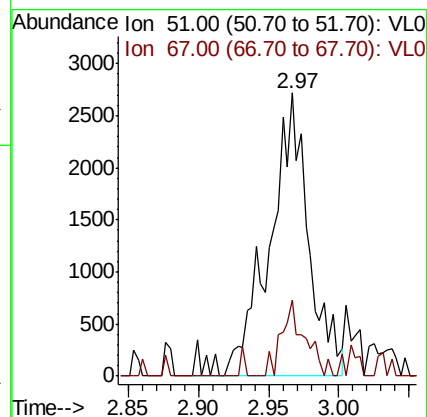
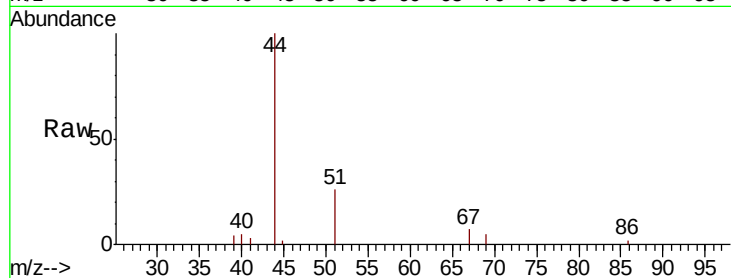




#3
 Chlorodifluoromethane
 Concen: 0.039 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. -0.02 min
 Lab File: VL035824.D
 Acq: 4 Nov 2020 4:24

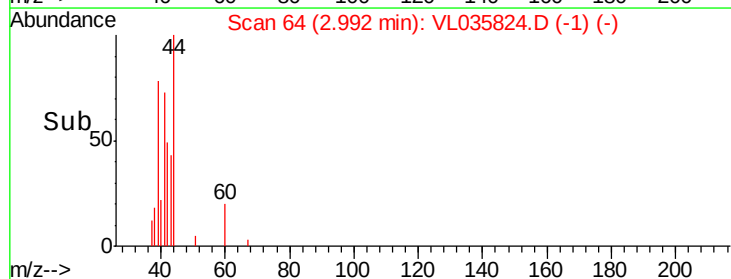
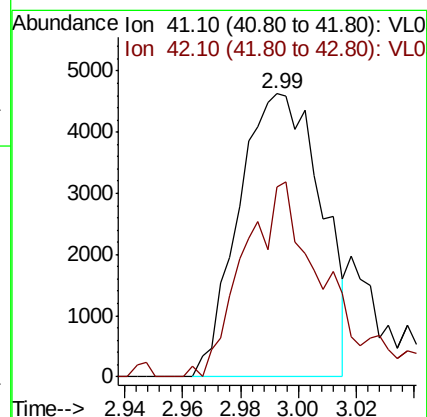
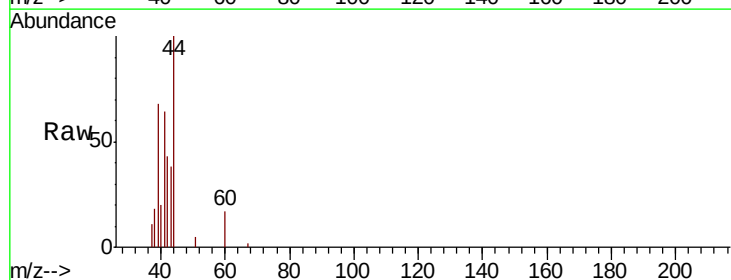
Instrument :
 MSVOA_L
 ClientSampleId :

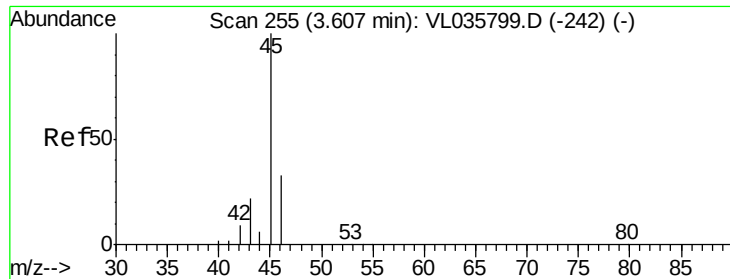
Tot Ion: 51 Resp: 5331
 Ion Ratio Lower Upper
 51 100
 67 19.0 17.0 25.4



#9
 Propene
 Concen: 0.183 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. -0.01 min
 Lab File: VL035824.D
 Acq: 4 Nov 2020 4:24

Tgt Ion: 41 Resp: 9113
 Ion Ratio Lower Upper
 41 100
 42 73.8 56.2 84.4

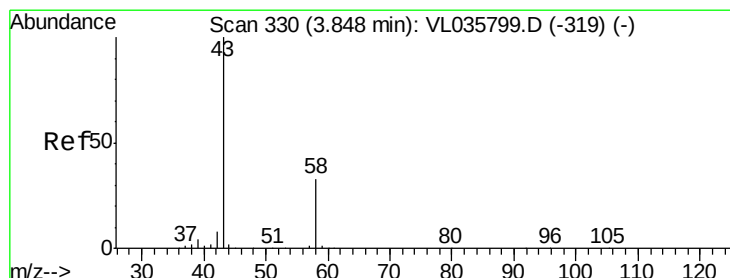
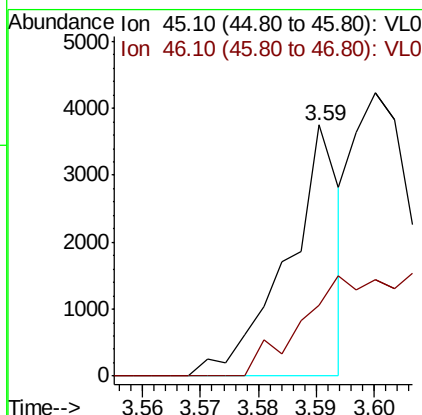
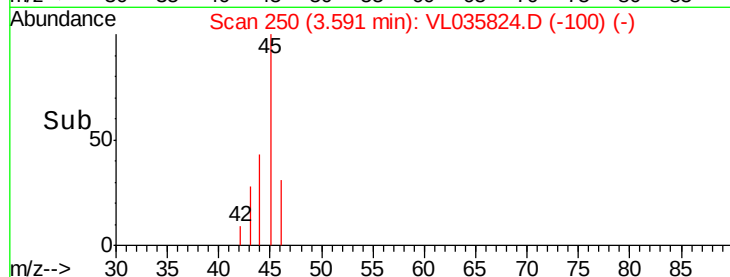
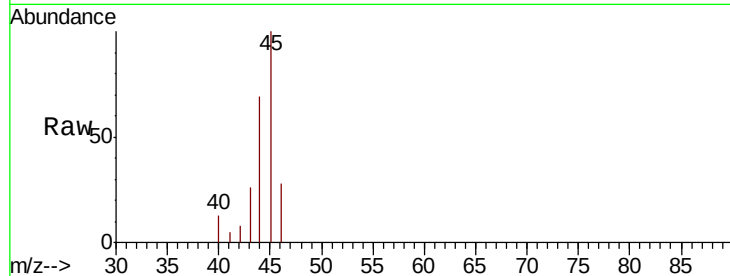




#13
Ethanol
Concen: 0.220 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

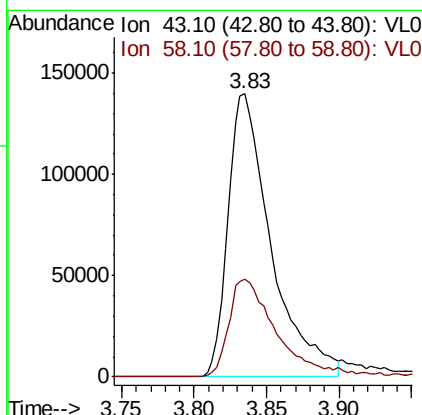
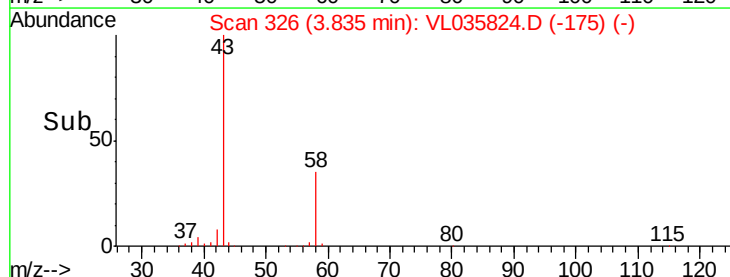
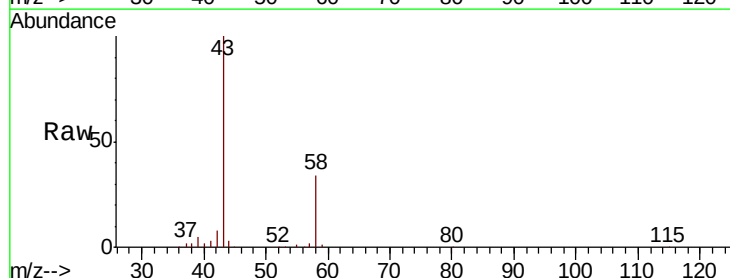
Instrument :
MSVOA_L
ClientSampled :

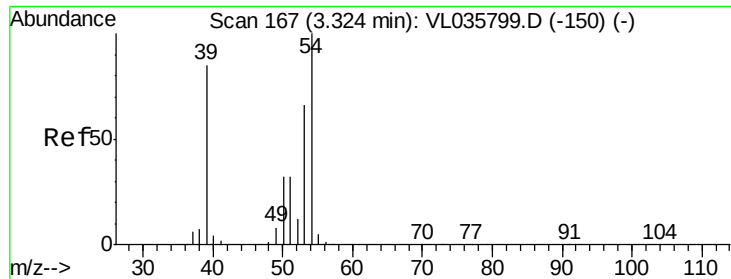
Tot Ion: 45 Resp: 2368
Ion Ratio Lower Upper
45 100
46 0.0 16.1 64.5#



#15
Acetone
Concen: 2.374 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.01 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

Tgt Ion: 43 Resp: 287760
Ion Ratio Lower Upper
43 100
58 40.1 27.5 41.3

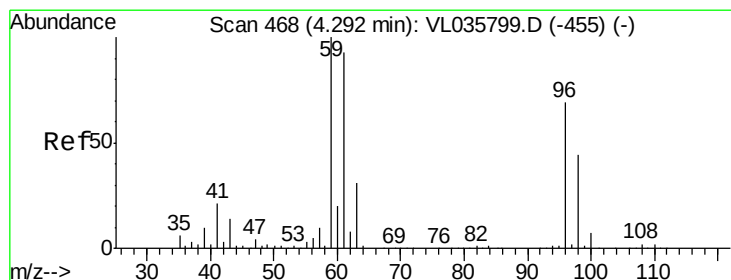
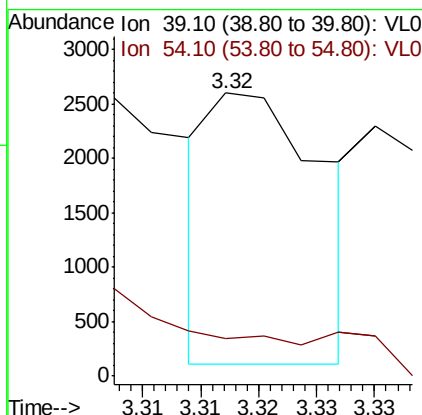
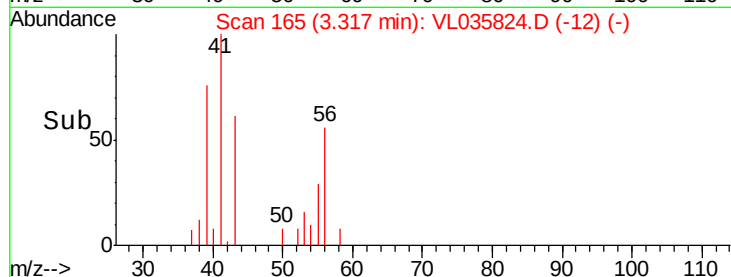
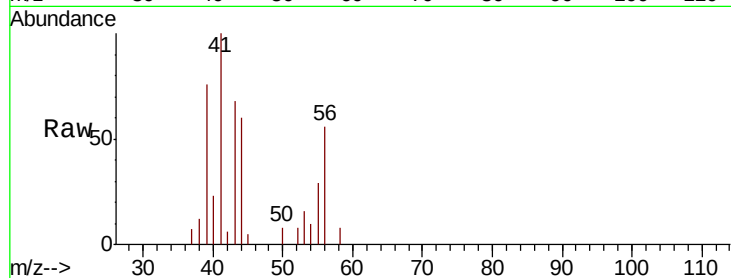




#16
1,3-Butadiene
Concen: 0.032 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.01 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

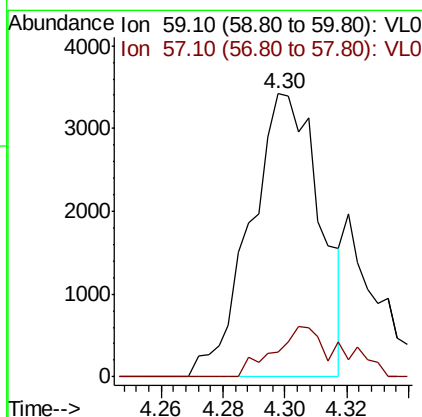
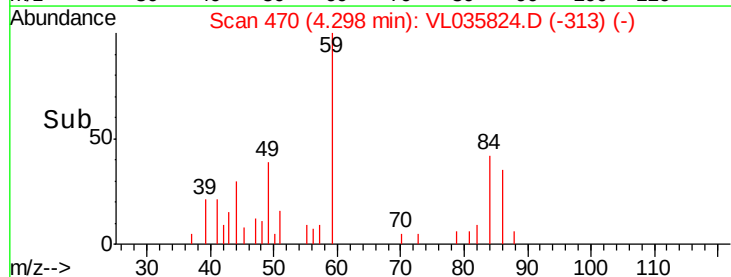
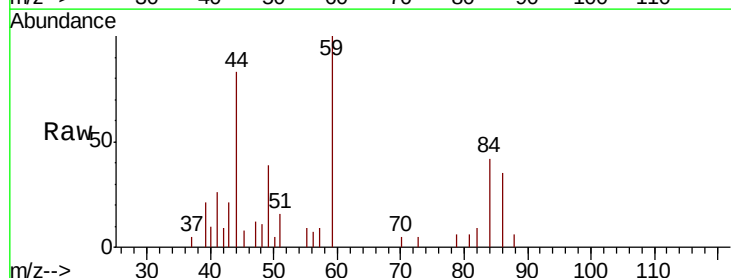
Instrument :
MSVOA_L
ClientSampleId :

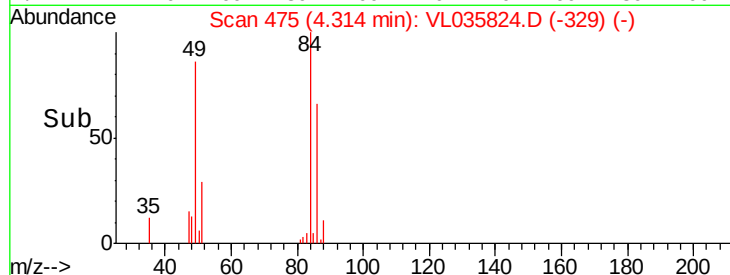
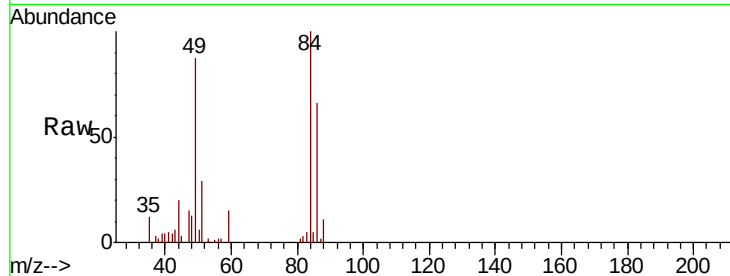
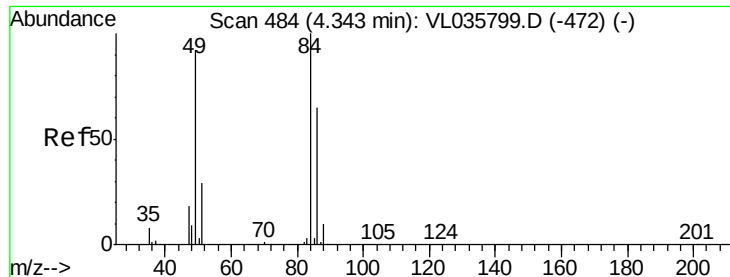
Tot Ion: 39 Resp: 1675
Ion Ratio Lower Upper
39 100
54 0.0 87.1 130.7#



#17
tert-Butyl alcohol
Concen: 0.033 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.01 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

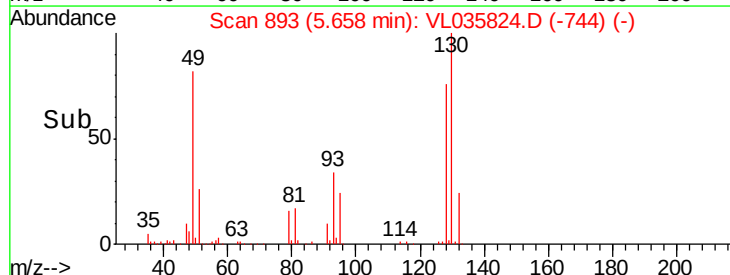
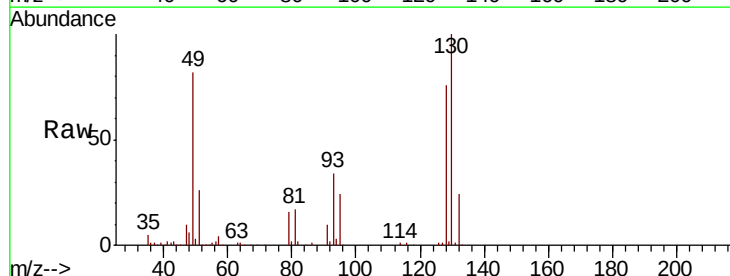
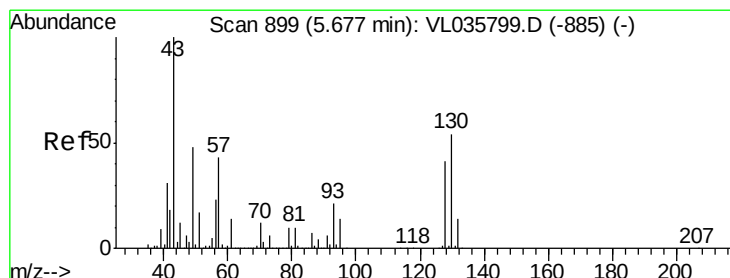
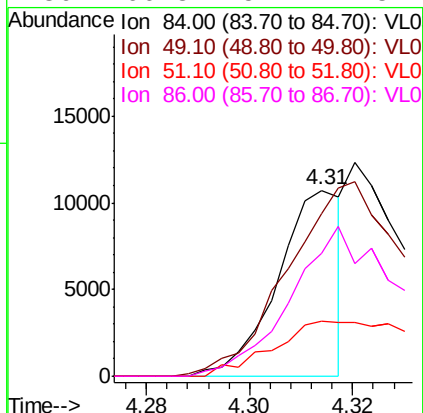
Tgt Ion: 59 Resp: 5334
Ion Ratio Lower Upper
59 100
57 16.9 8.2 12.4#





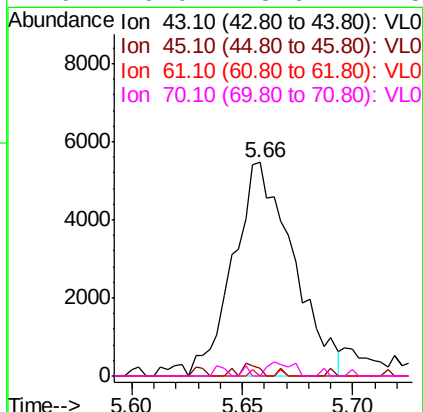
#20
Methylene Chloride
Concen: 0.109 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.03 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

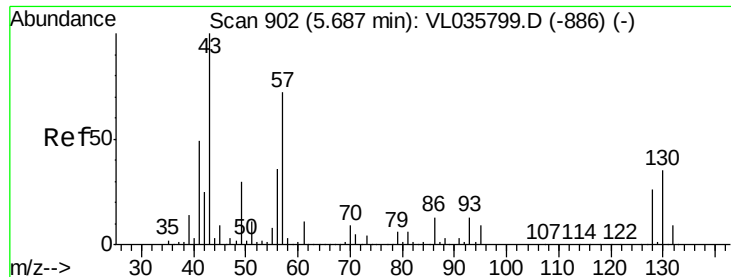
Tot Ion:	84	Resp:	9293
Ion	Ratio	Lower	Upper
84	100		
49	85.3	73.8	110.8
51	29.4	23.0	34.4
86	66.3	52.1	78.1



#25
Ethyl Acetate
Concen: 0.043 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

Tgt Ion:	43	Resp:	10271
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.5	12.7#
61	0.6	10.7	16.1#
70	0.0	8.6	12.8#

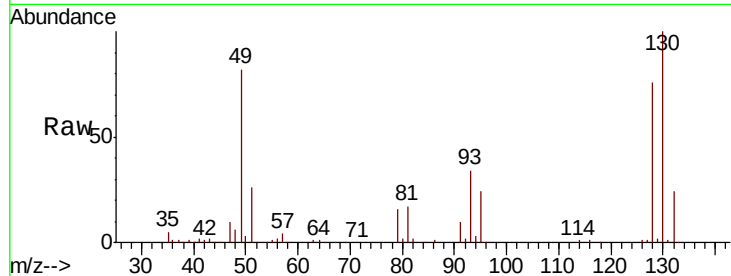




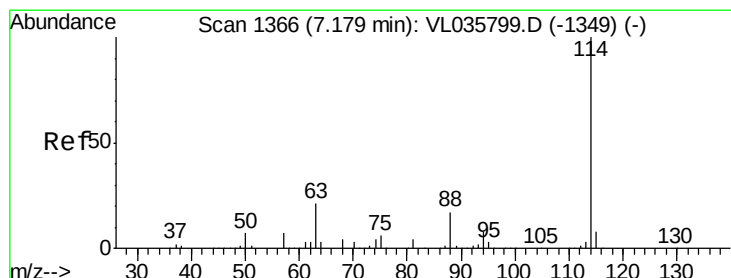
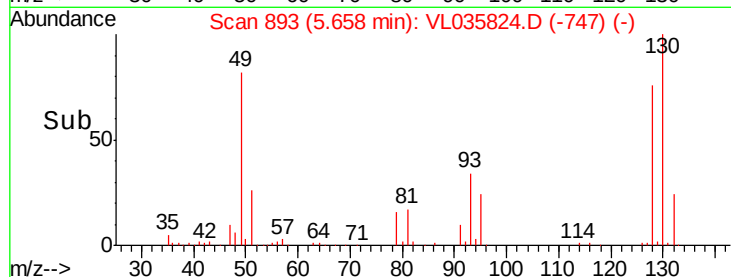
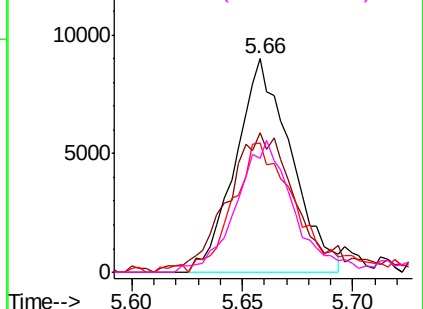
#26
Hexane
Concen: 0.119 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 15691
Ion Ratio Lower Upper
57 100
41 87.5 58.9 88.3
43 73.7 150.2 225.2#
56 63.3 42.4 63.6

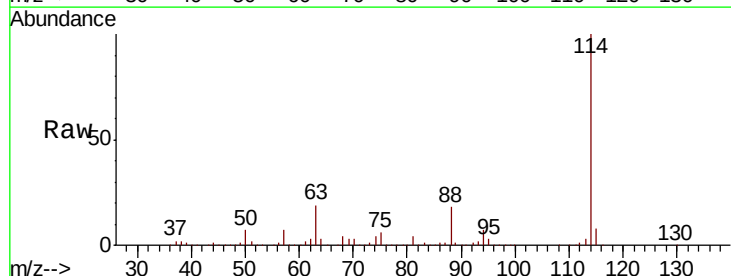


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

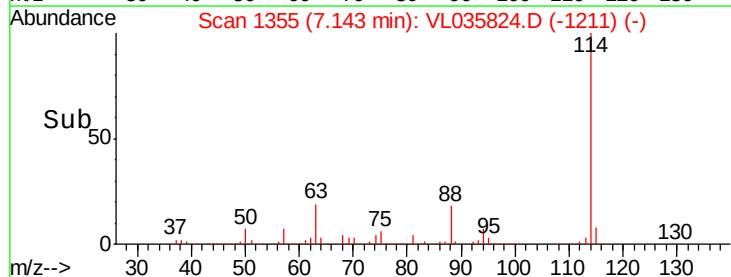
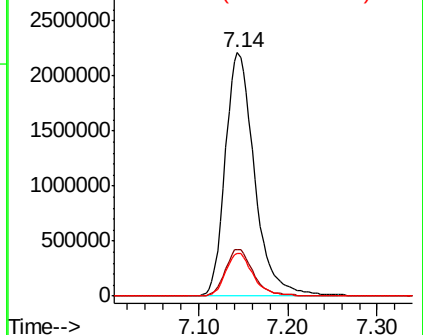


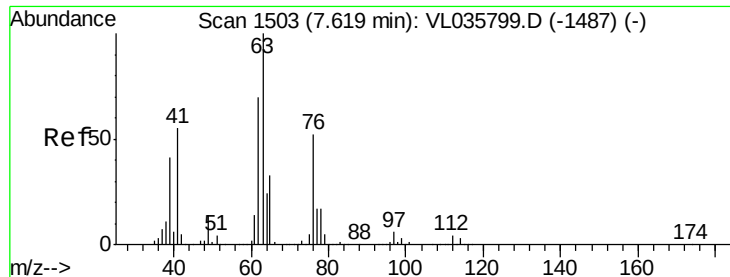
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.04 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

Tgt Ion: 114 Resp: 5025018
Ion Ratio Lower Upper
114 100
63 18.5 16.1 24.1
88 17.0 13.7 20.5



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

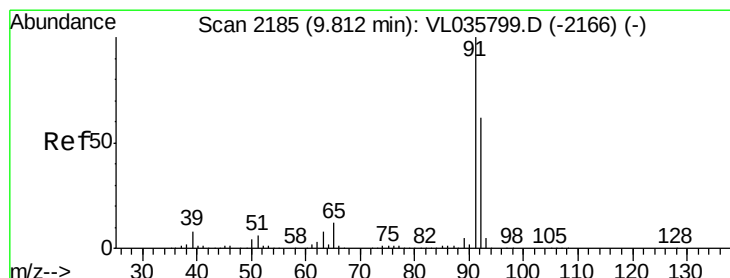
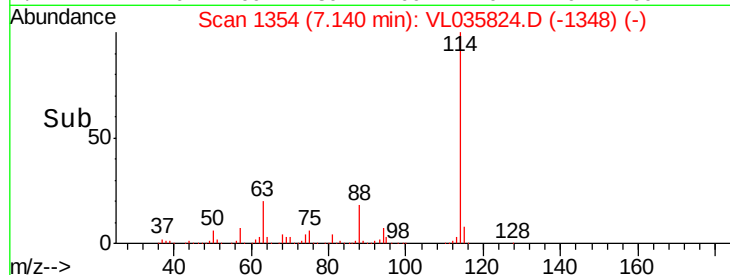
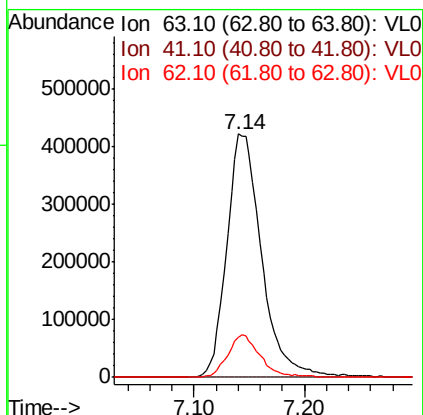
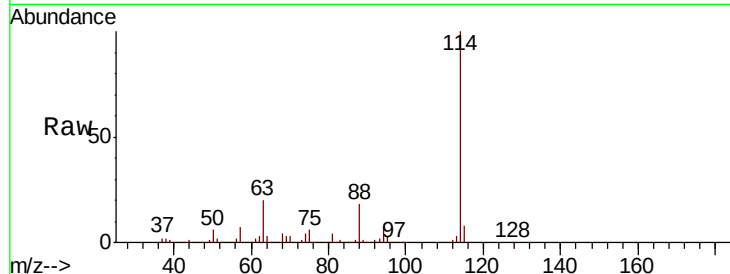




#39
 1,2-Dichloropropane
 Concen: 7.321 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.48 min
 Lab File: VL035824.D
 Acq: 4 Nov 2020 4:24

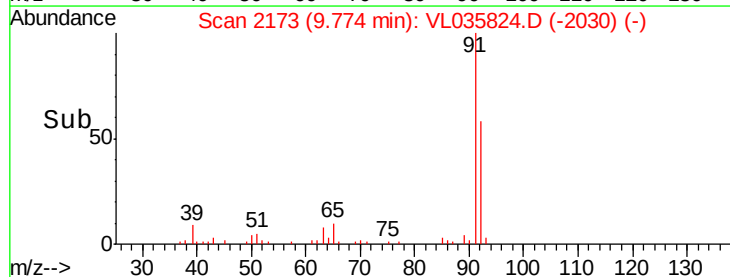
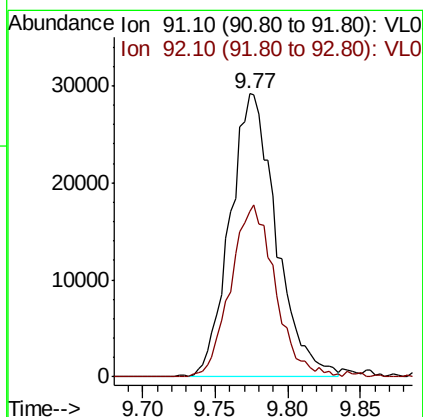
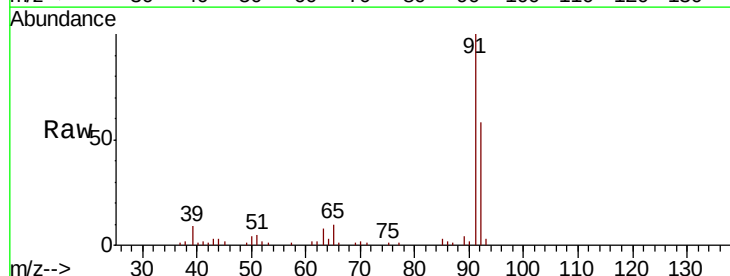
Instrument :
 MSVOA_L
 ClientSampleId :

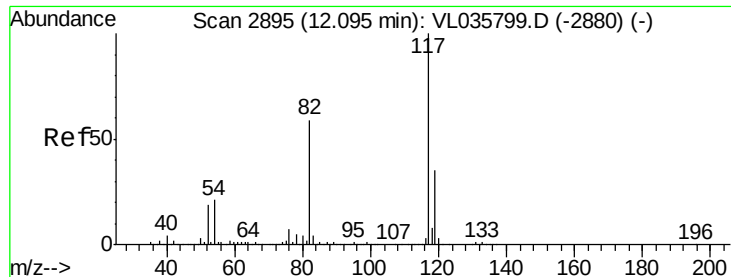
Tot Ion	63	Resp	920783
Ion Ratio	Lower	Upper	
63	100		
41	0.0	43.8	65.6#
62	16.7	56.2	84.2#



#53
 Toluene
 Concen: 0.143 ppbv
 RT: 9.77 min Scan# 2173
 Delta R.T. -0.04 min
 Lab File: VL035824.D
 Acq: 4 Nov 2020 4:24

Tgt Ion	91	Resp	64660
Ion Ratio	Lower	Upper	
91	100		
92	59.2	49.8	74.6

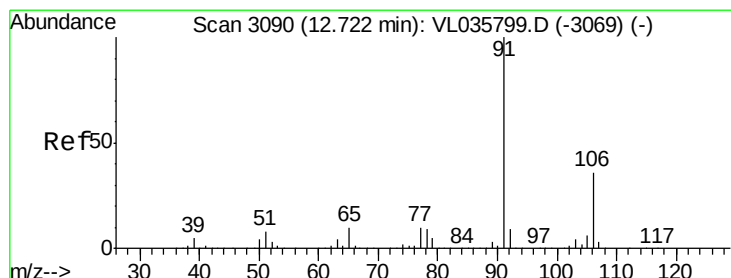
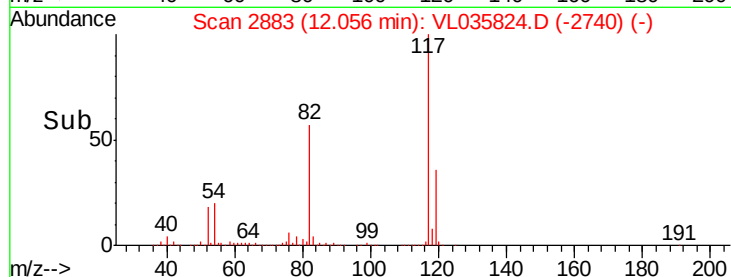
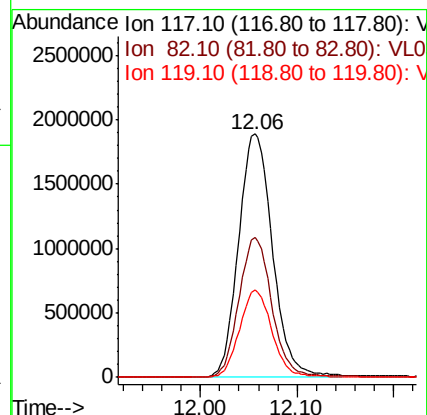
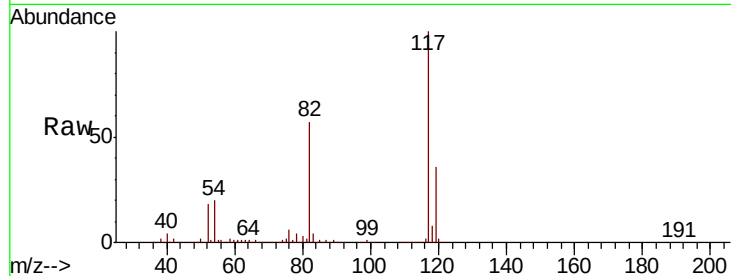




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.04 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

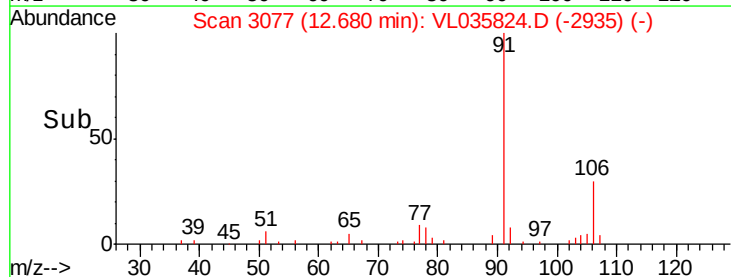
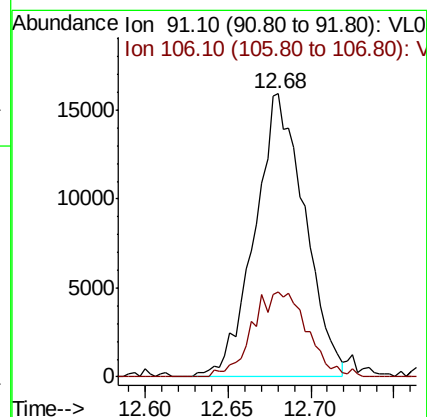
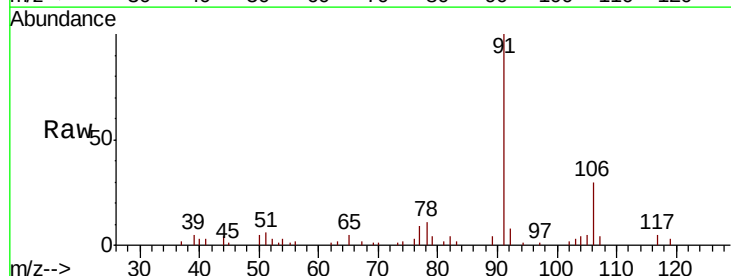
Instrument :
MSVOA_L
ClientSampled :

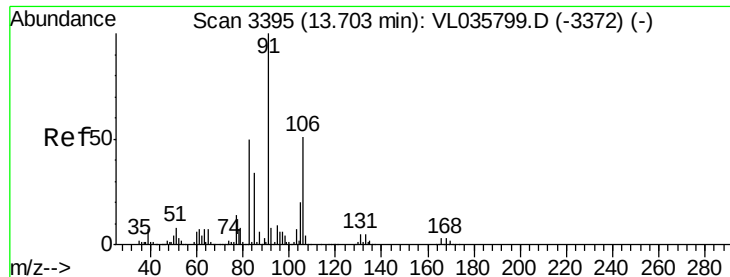
Tot Ion:117 Resp: 4624605
Ion Ratio Lower Upper
117 100
82 56.6 50.6 76.0
119 34.8 52.6 78.8#



#58
Ethyl Benzene
Concen: 0.059 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.04 min
Lab File: VL035824.D
Acq: 4 Nov 2020 4:24

Tgt Ion: 91 Resp: 33462
Ion Ratio Lower Upper
91 100
106 30.2 28.6 43.0





#60

o-Xylene

Concen: 0.073 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.04 min

Lab File: VL035824.D

Acq: 4 Nov 2020 4:24

Instrument :

MSVOA_L

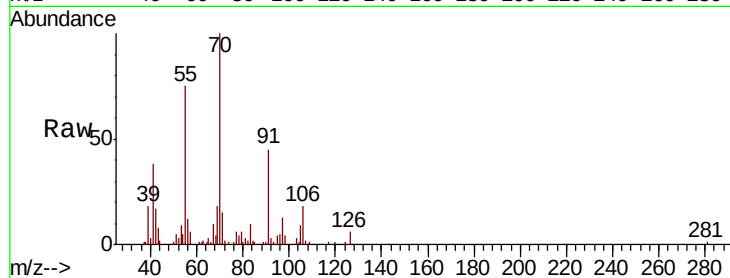
ClientSampled :

Tot Ion: 91 Resp: 33963

Ion Ratio Lower Upper

91 100

106 47.7 24.8 74.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.66

15000

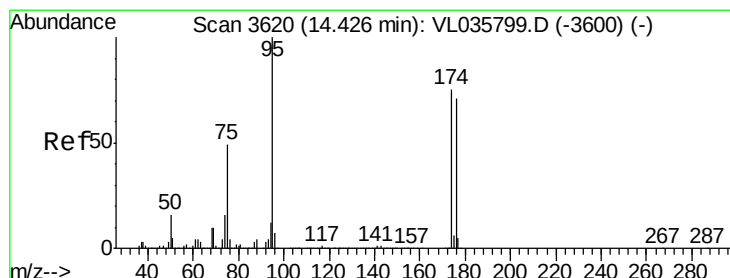
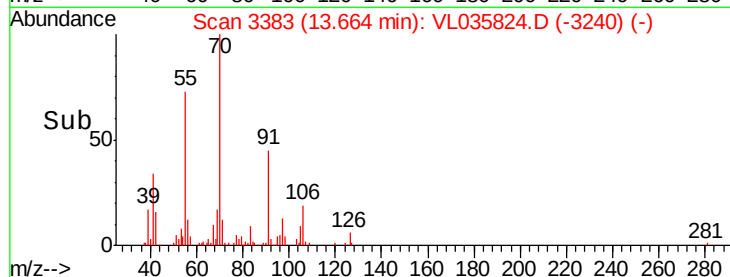
10000

5000

0

13.60 13.65 13.70

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.122 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.04 min

Lab File: VL035824.D

Acq: 4 Nov 2020 4:24

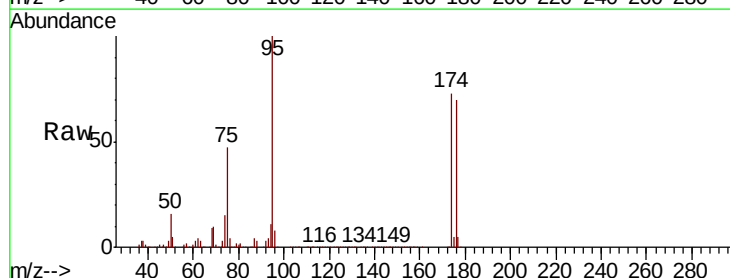
Tgt Ion: 95 Resp: 3325647

Ion Ratio Lower Upper

95 100

174 76.6 59.8 89.6

175 5.5 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

14.39

1500000

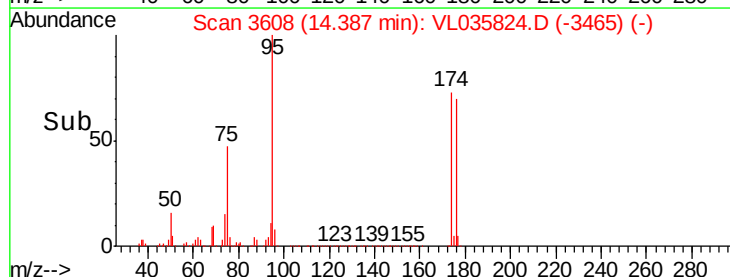
1000000

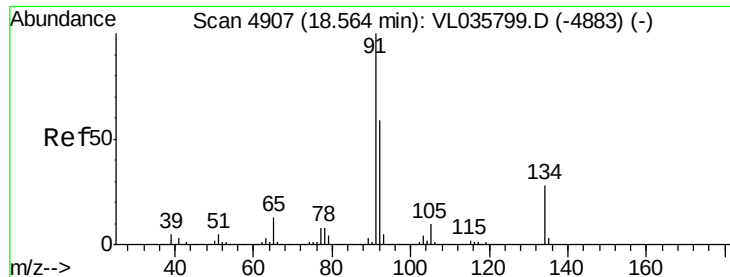
500000

0

14.30 14.40 14.50

Time-->





#70

n-Butylbenzene

Concen: 0.059 ppbv

RT: 18.53 min Scan# 4897

Delta R.T. -0.03 min

Lab File: VL035824.D

Acq: 4 Nov 2020 4:24

Instrument :

MSVOA_L

ClientSampleId :

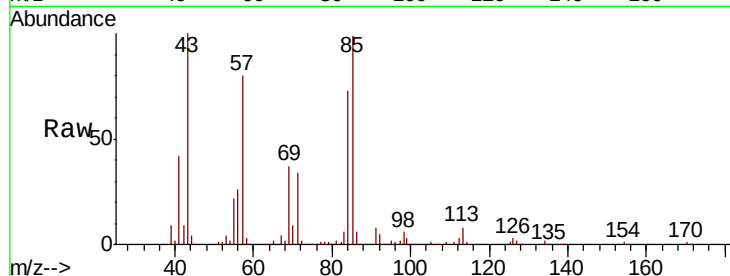
Tot Ion: 91 Resp: 41552

Ion Ratio Lower Upper

91 100

92 59.5 45.7 68.5

134 30.4 21.0 31.4

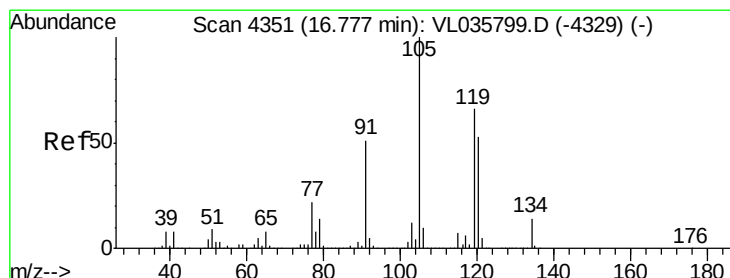
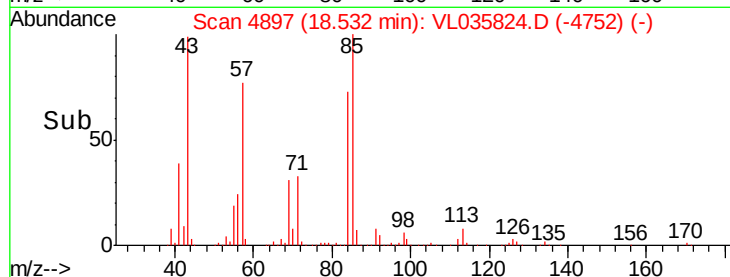
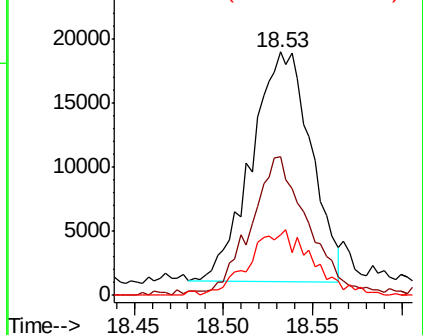


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0



#74

1,2,4-Trimethylbenzene

Concen: 0.059 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.04 min

Lab File: VL035824.D

Acq: 4 Nov 2020 4:24

Tgt Ion: 105 Resp: 32380

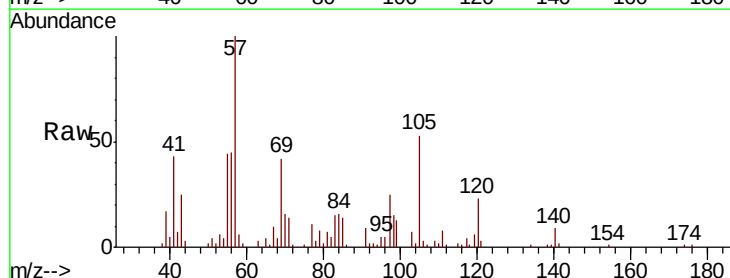
Ion Ratio Lower Upper

105 100

120 42.6 42.0 63.0

91 13.8 41.0 61.6#

77 14.6 17.3 25.9#



Abundance

Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

