

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035878.D
 Acq On : 6 Nov 2020 3:06
 Operator : SY/AP
 Sample : L4618-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Nov 06 05:51:31 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	5.65	49	1027611	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3773460	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3484916	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2450482	9.90	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

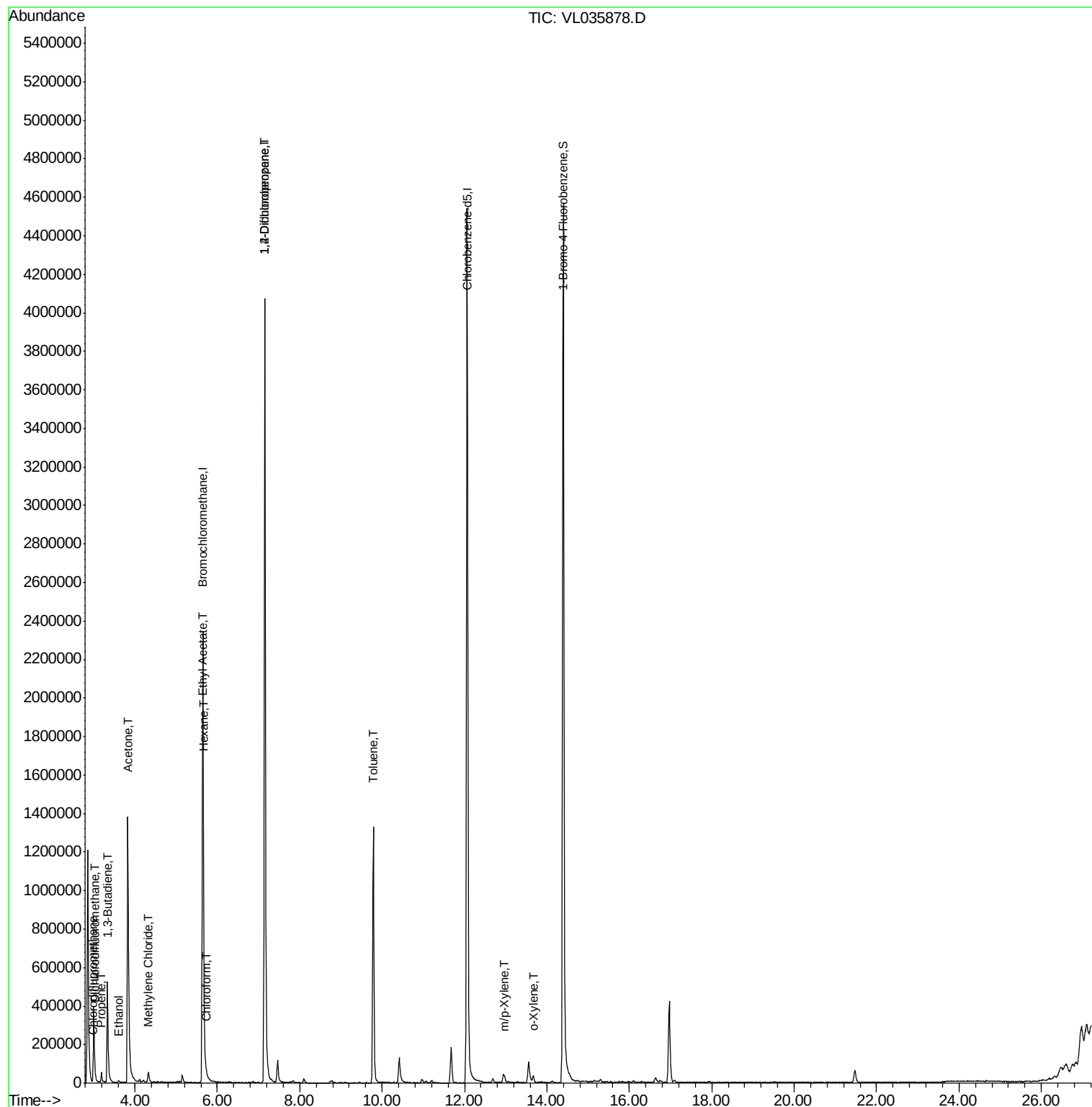
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	12156	0.063	ppbv	100
3) Chlorodifluoromethane	2.97	51	6065	0.049	ppbv #	82
9) Propene	3.19	41	15232	0.338	ppbv	90
13) Ethanol	3.60	45	10356	1.060	ppbv	83
15) Acetone	3.83	43	1900148	17.296	ppbv	98
16) 1,3-Butadiene	3.33	39	81604	1.725	ppbv #	1
20) Methylene Chloride	4.32	84	29398	0.380	ppbv	94
25) Ethyl Acetate	5.66	43	12099	0.056	ppbv #	76
26) Hexane	5.67	57	17746	0.149	ppbv #	48
29) Chloroform	5.73	83	7932	0.034	ppbv	92
39) 1,2-Dichloropropane	7.15	63	757049	8.016	ppbv #	30
53) Toluene	9.78	91	1172975	3.465	ppbv	98
59) m/p-Xylene	12.97	91	16628	0.046	ppbv #	28
60) o-Xylene	13.67	91	20586	0.059	ppbv	88

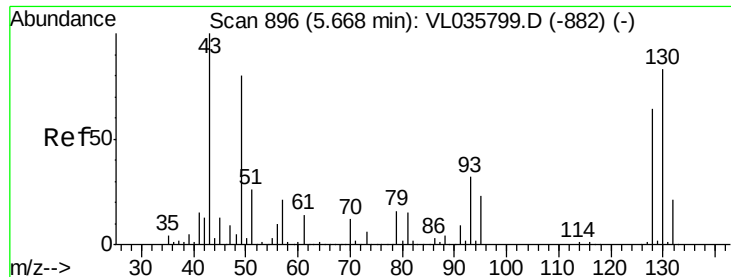
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 06 05:51:31 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: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035878.D

Acq: 6 Nov 2020 3:06

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

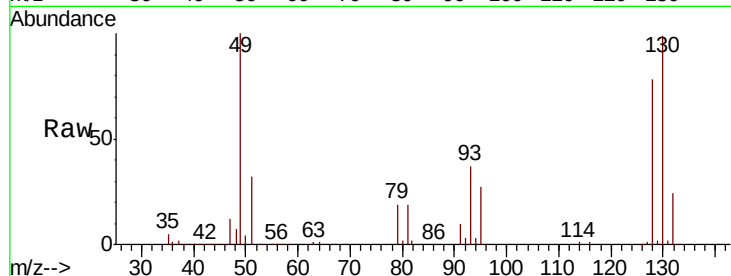
Tot Ion: 49 Resp: 1027611

Ion Ratio Lower Upper

49 100

128 79.1 41.5 124.6

130 101.9 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

600000

500000

400000

300000

200000

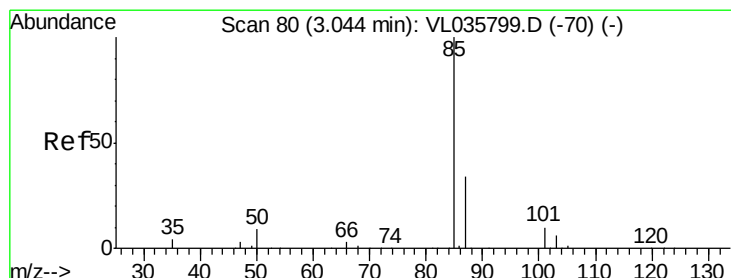
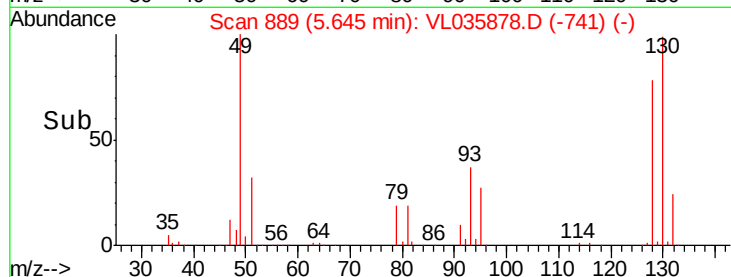
100000

0

5.60

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035878.D

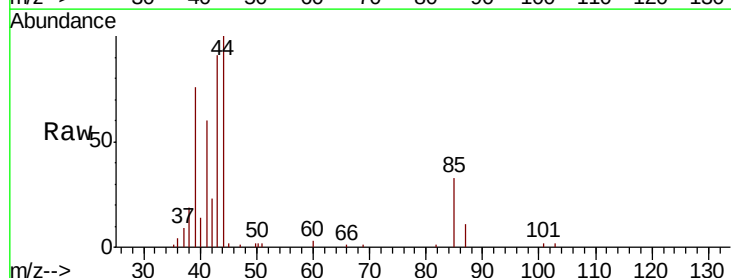
Acq: 6 Nov 2020 3:06

Tgt Ion: 85 Resp: 12156

Ion Ratio Lower Upper

85 100

87 33.9 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

8000

6000

4000

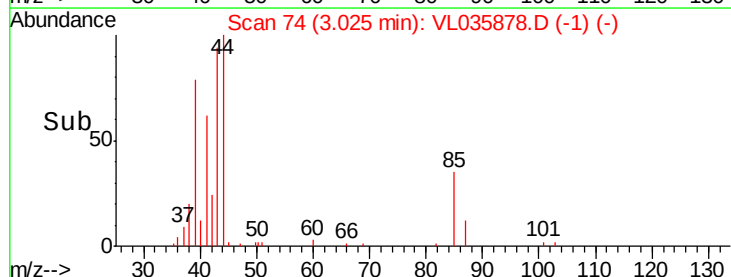
2000

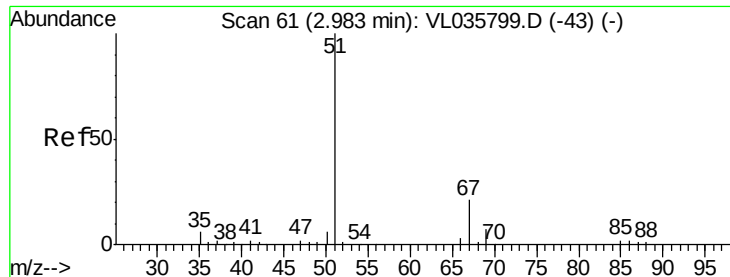
0

3.00

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035878.D

Acq: 6 Nov 2020 3:06

Instrument :

MSVOA_L

ClientSampleId :

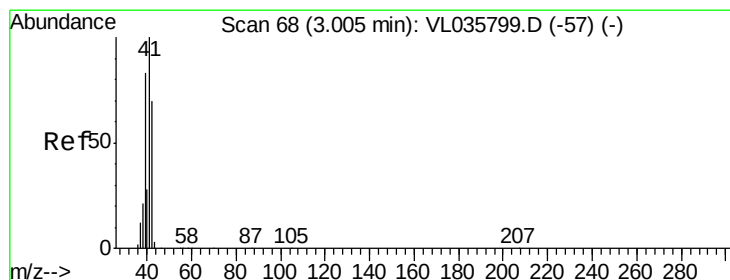
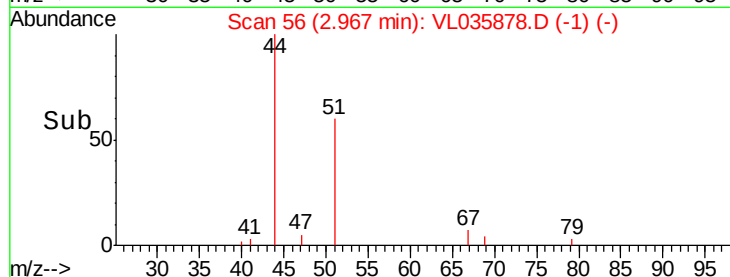
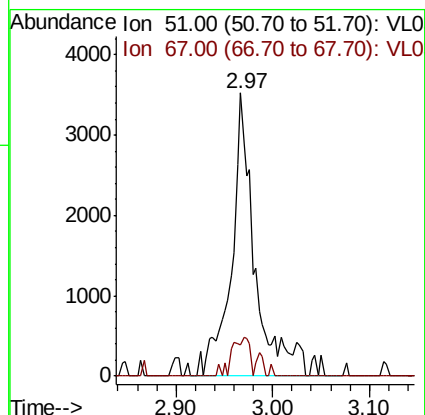
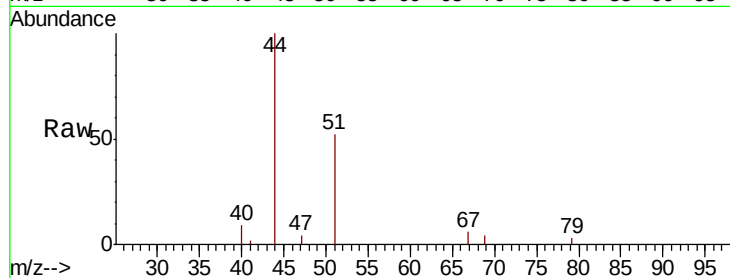
IA-2DL

Tot Ion: 51 Resp: 6065

Ion Ratio Lower Upper

51 100

67 13.0 17.0 25.4#



#9

Propene

Concen: 0.338 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.18 min

Lab File: VL035878.D

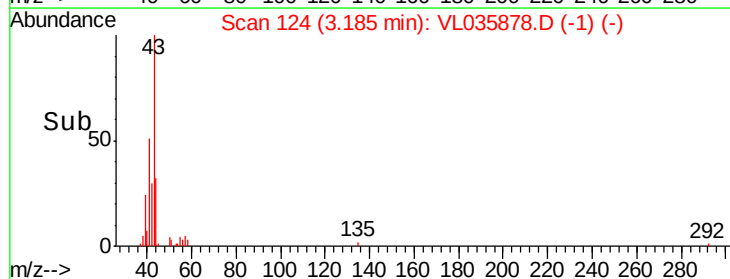
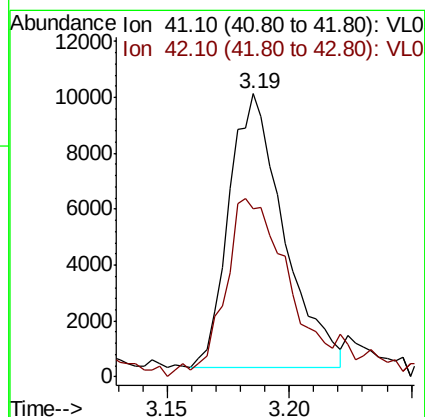
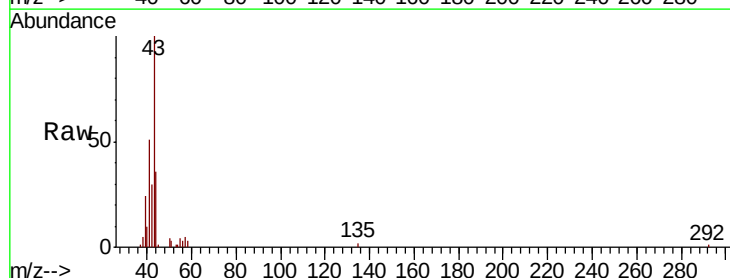
Acq: 6 Nov 2020 3:06

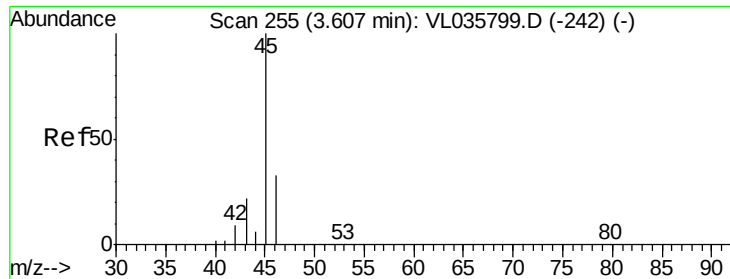
Tgt Ion: 41 Resp: 15232

Ion Ratio Lower Upper

41 100

42 78.4 56.2 84.4





#13

Ethanol

Concen: 1.060 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035878.D

Acq: 6 Nov 2020 3:06

Instrument :

MSVOA_L

ClientSampleId :

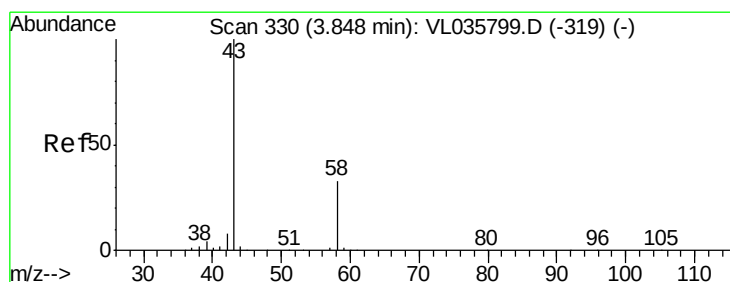
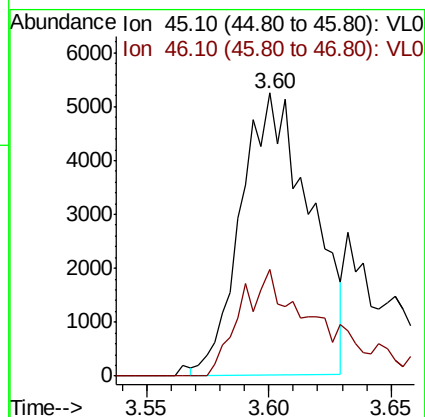
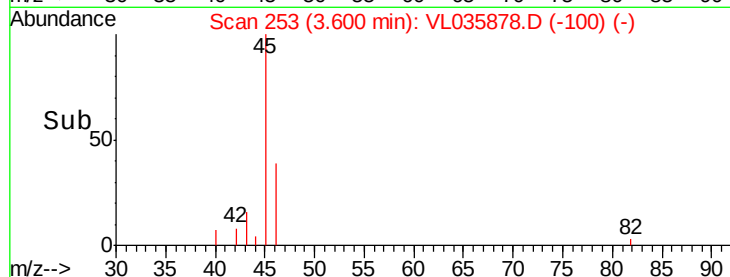
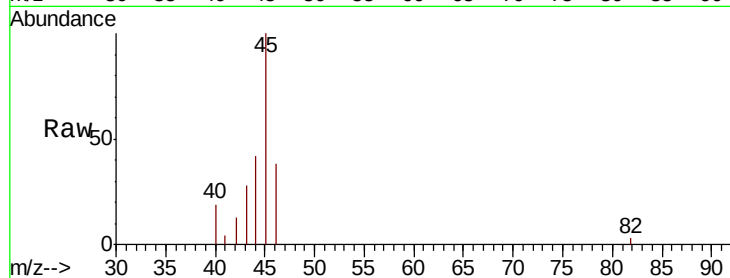
IA-2DL

Tot Ion: 45 Resp: 10356

Ion Ratio Lower Upper

45 100

46 50.9 16.1 64.5



#15

Acetone

Concen: 17.296 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL035878.D

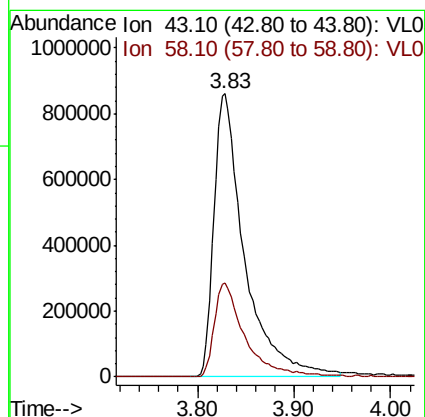
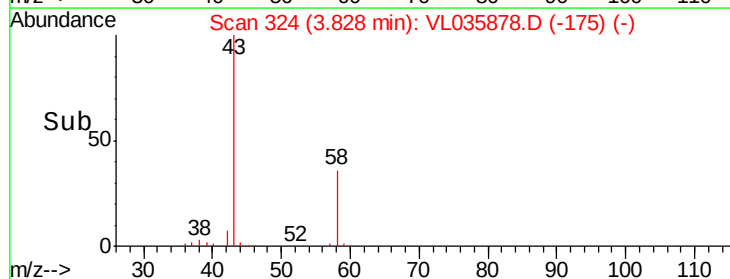
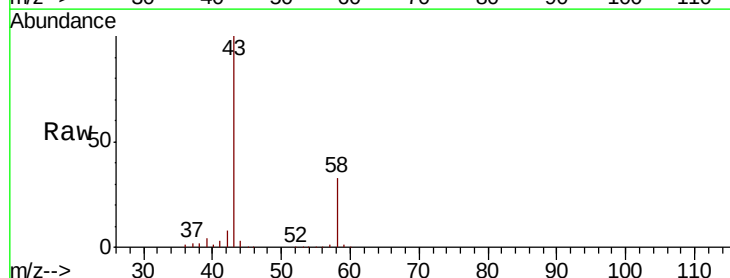
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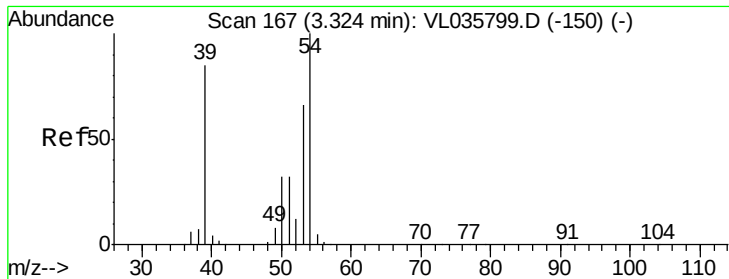
Tgt Ion: 43 Resp: 1900148

Ion Ratio Lower Upper

43 100

58 33.4 27.5 41.3

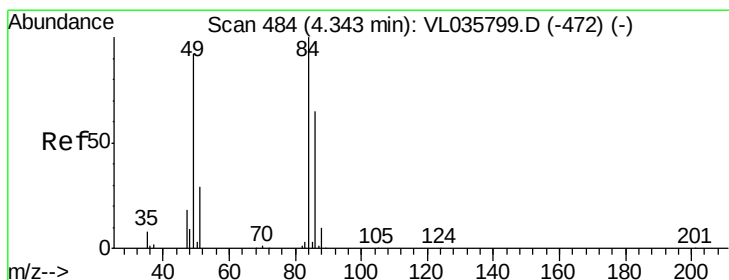
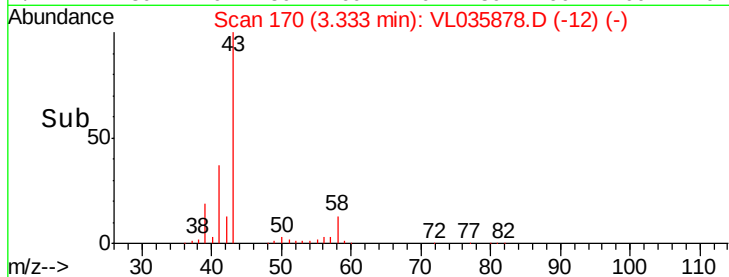
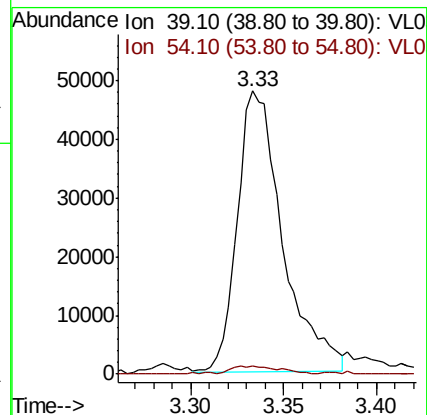
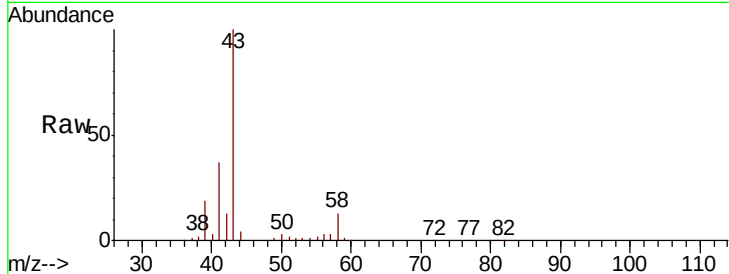




#16
 1,3-Butadiene
 Concen: 1.725 ppbv
 RT: 3.33 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VL035878.D
 Acq: 6 Nov 2020 3:06

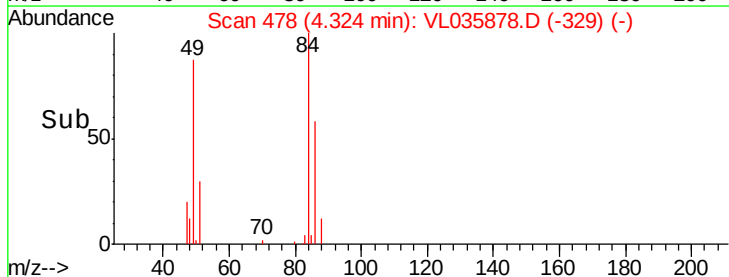
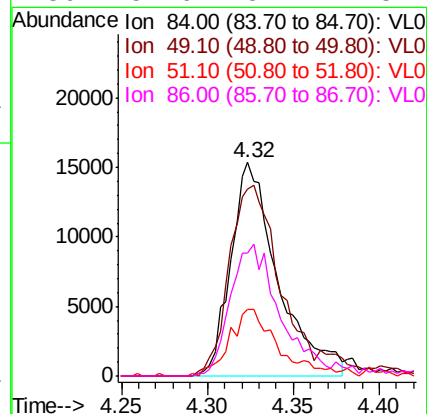
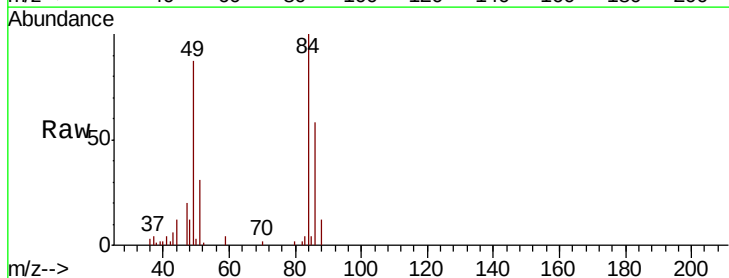
Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

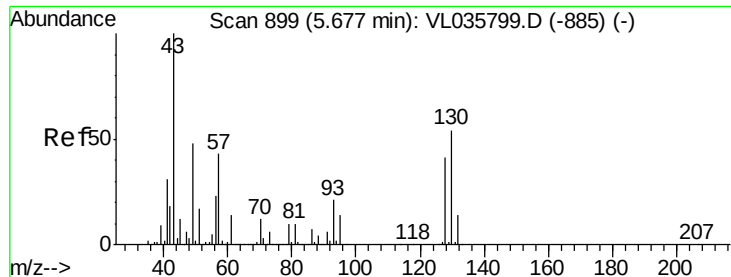
Tot Ion: 39 Resp: 81604
 Ion Ratio Lower Upper
 39 100
 54 3.7 87.1 130.7#



#20
 Methylene Chloride
 Concen: 0.380 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.02 min
 Lab File: VL035878.D
 Acq: 6 Nov 2020 3:06

Tgt Ion: 84 Resp: 29398
 Ion Ratio Lower Upper
 84 100
 49 87.3 73.8 110.8
 51 30.3 23.0 34.4
 86 57.6 52.1 78.1

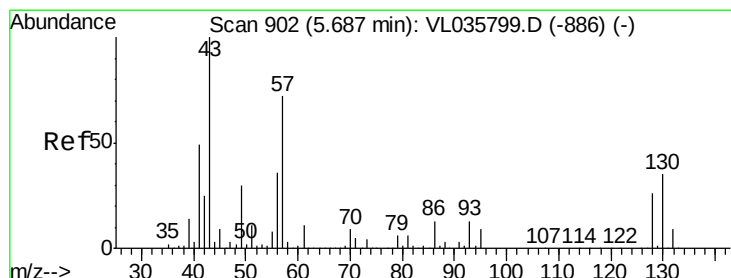
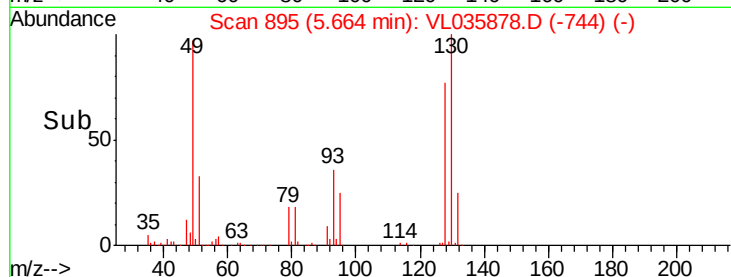
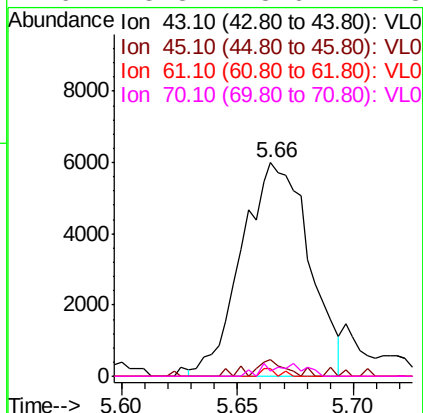
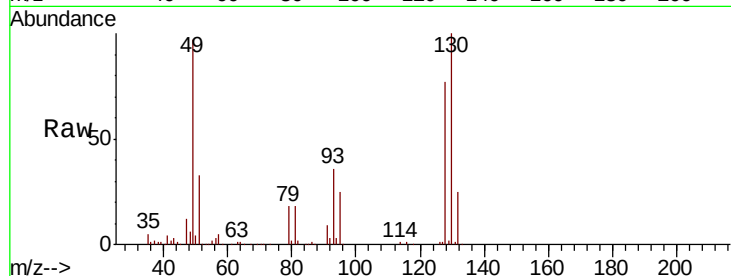




#25
Ethyl Acetate
Concen: 0.056 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

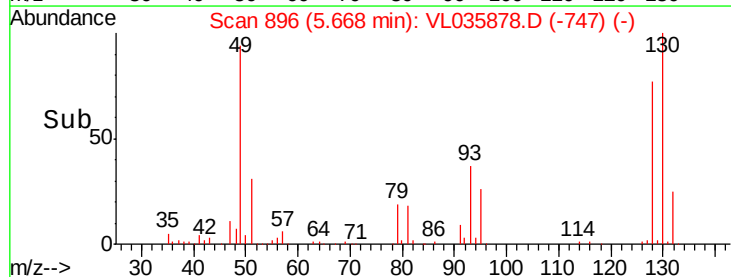
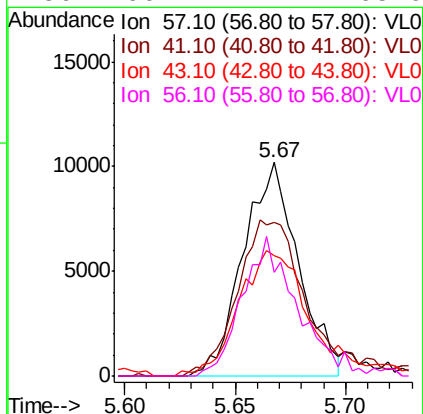
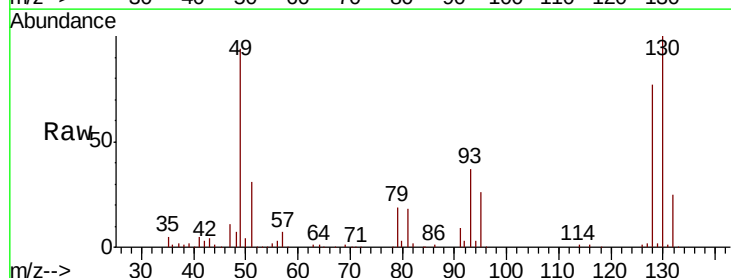
Instrument :
MSVOA_L
ClientSampleID :
IA-2DL

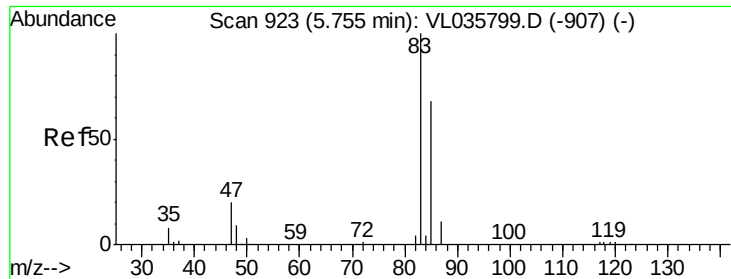
Tot Ion:	43	Resp:	12099
Ion	Ratio	Lower	Upper
43	100		
45	4.0	8.5	12.7#
61	0.0	10.7	16.1#
70	3.3	8.6	12.8#



#26
Hexane
Concen: 0.149 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Tgt Ion:	57	Resp:	17746
Ion	Ratio	Lower	Upper
57	100		
41	92.5	58.9	88.3#
43	80.5	150.2	225.2#
56	66.4	42.4	63.6#

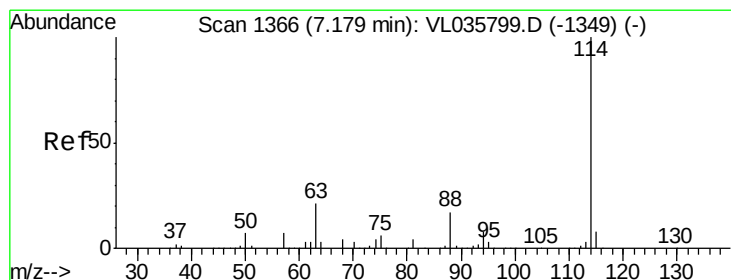
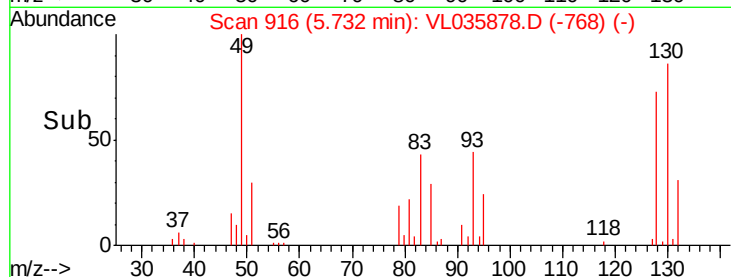
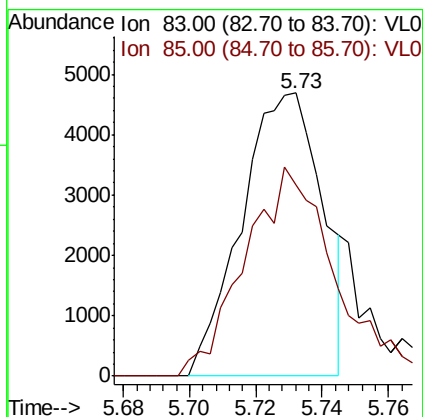
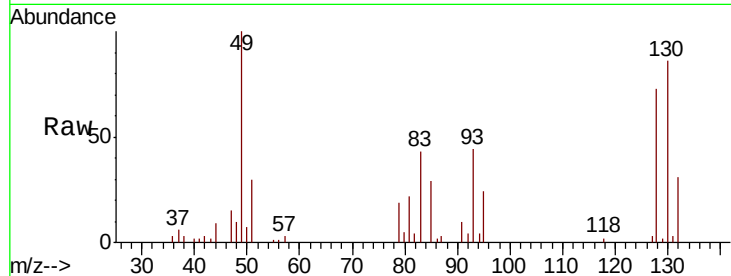




#29
Chloroform
Concen: 0.034 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

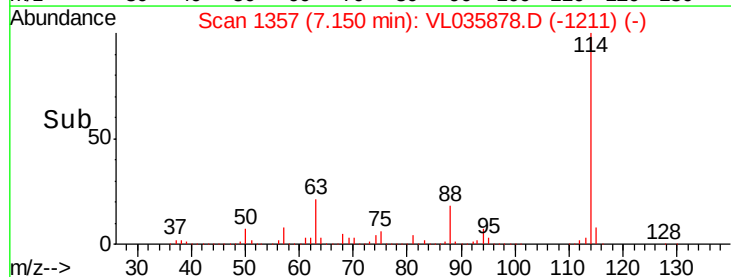
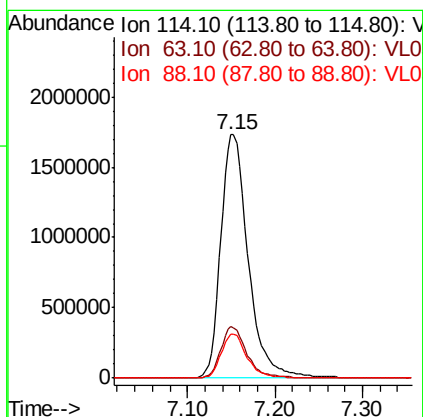
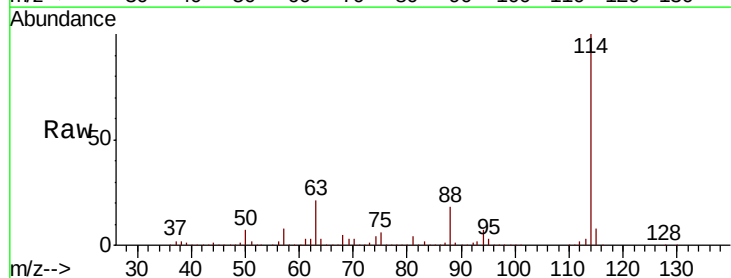
Instrument :
MSVOA_L
ClientSampled :
IA-2DL

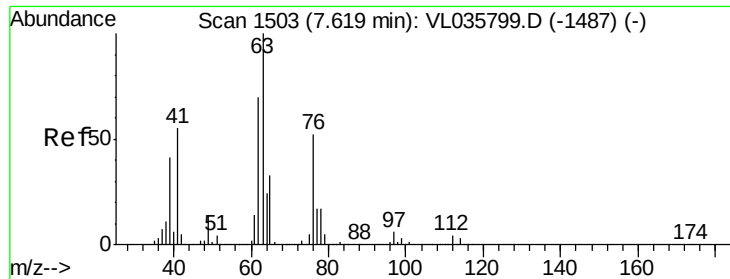
Tot Ion: 83 Resp: 7932
Ion Ratio Lower Upper
83 100
85 61.8 54.6 81.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Tgt Ion: 114 Resp: 3773460
Ion Ratio Lower Upper
114 100
63 20.3 16.1 24.1
88 17.2 13.7 20.5

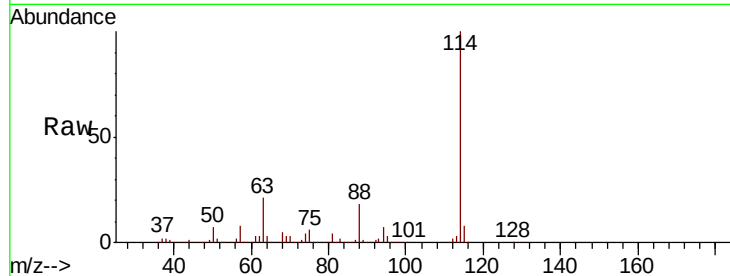




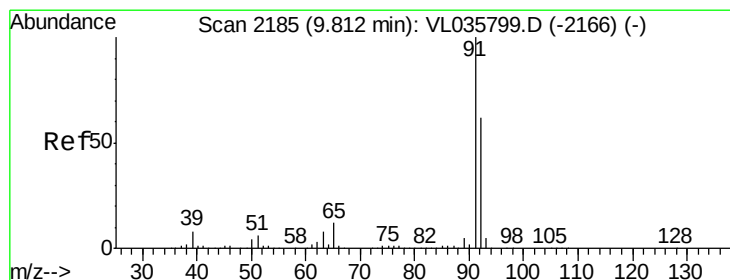
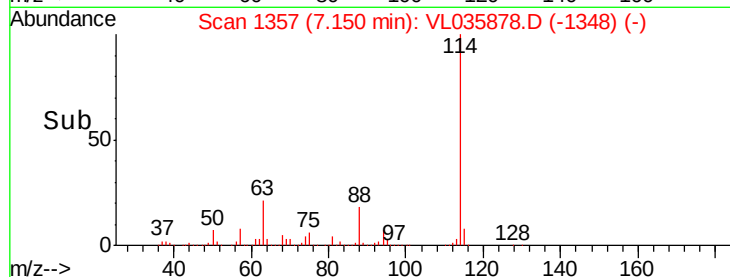
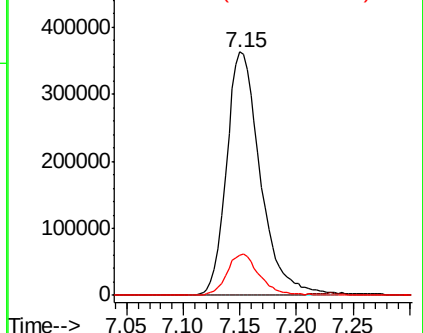
#39
 1,2-Dichloropropane
 Concen: 8.016 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.47 min
 Lab File: VL035878.D
 Acq: 6 Nov 2020 3:06

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tot Ion	63	Resp	757049
Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	16.5	56.2	84.2#

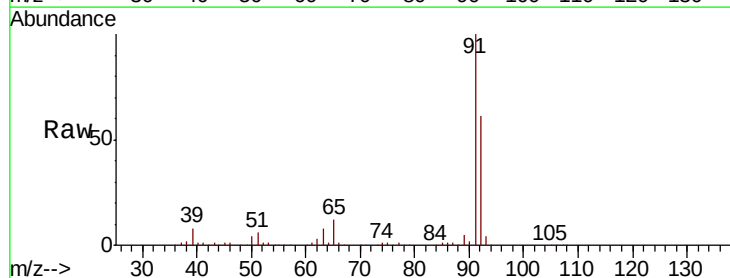


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

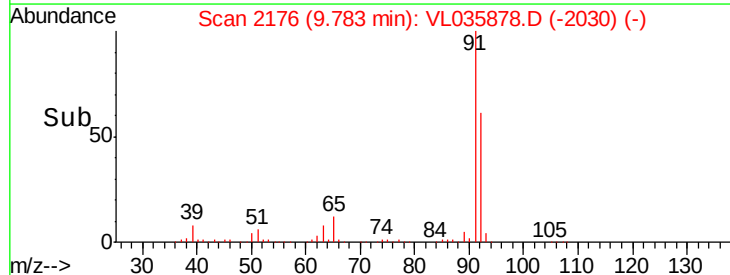
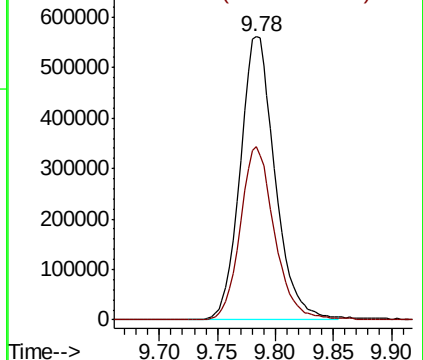


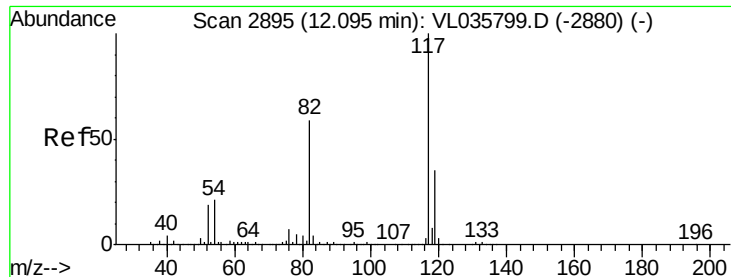
#53
 Toluene
 Concen: 3.465 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: VL035878.D
 Acq: 6 Nov 2020 3:06

Tgt Ion	91	Resp	1172975
Ion	Ratio	Lower	Upper
91	100		
92	60.8	49.8	74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

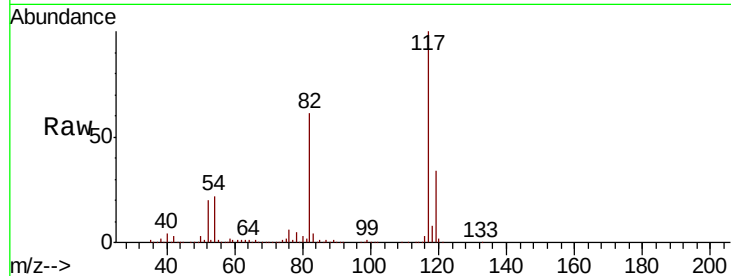




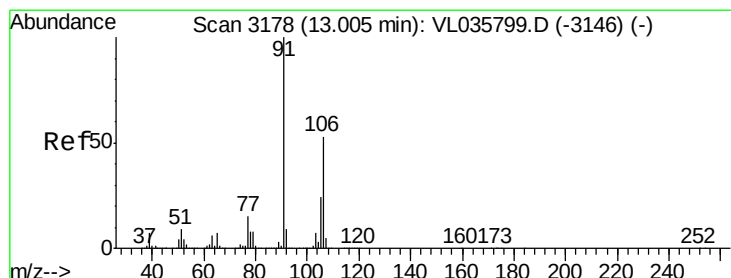
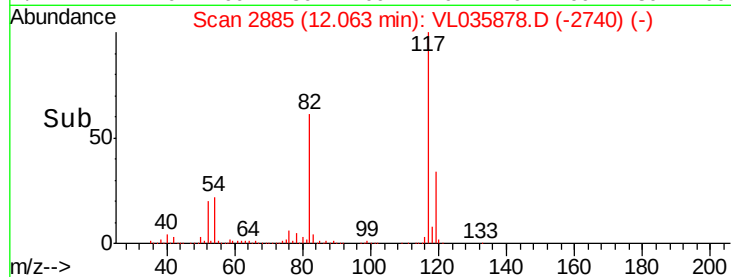
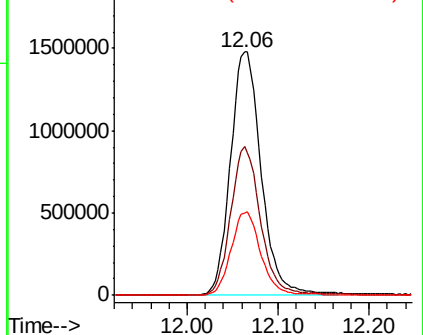
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion:117 Resp: 3484916
Ion Ratio Lower Upper
117 100
82 59.9 50.6 76.0
119 33.8 52.6 78.8#

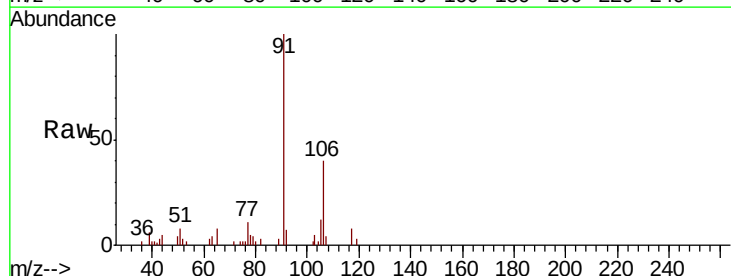


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

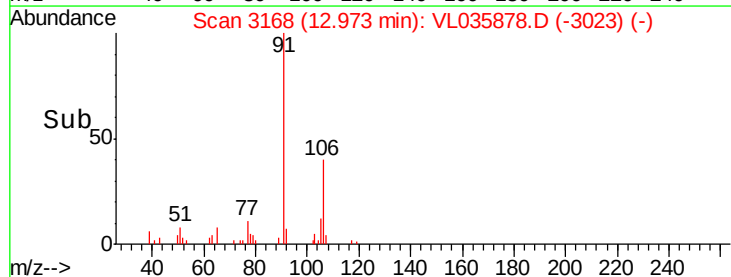
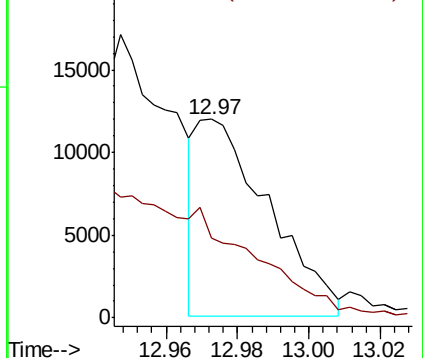


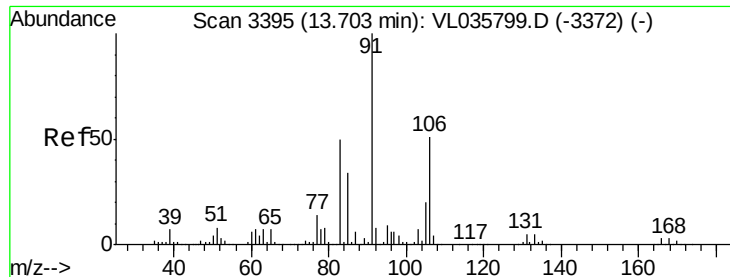
#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Tgt Ion: 91 Resp: 16628
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0
20000 Ion 106.10 (105.80 to 106.80): V

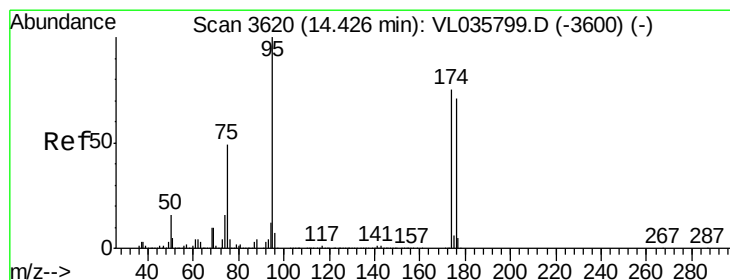
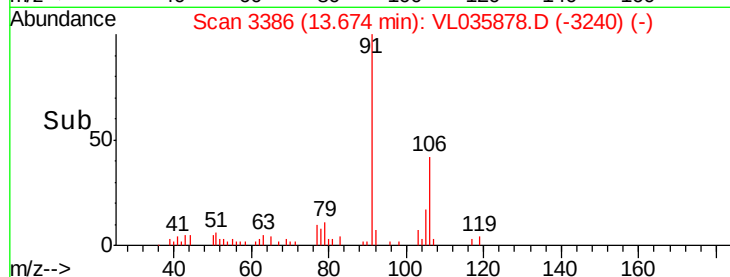
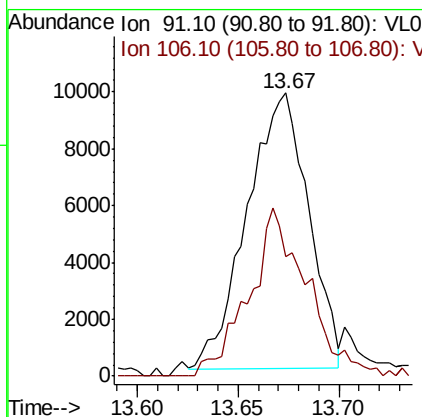
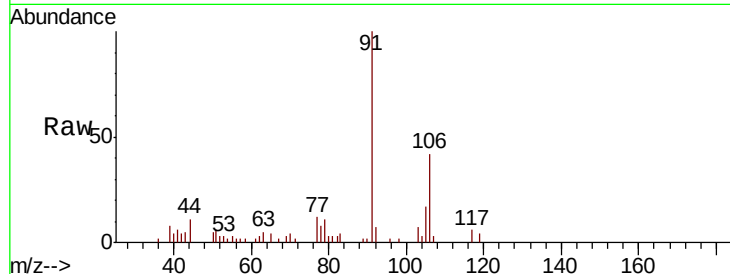




#60
o-Xylene
Concen: 0.059 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.03 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 91 Resp: 20586
Ion Ratio Lower Upper
91 100
106 57.7 24.8 74.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.897 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.03 min
Lab File: VL035878.D
Acq: 6 Nov 2020 3:06

Tgt Ion: 95 Resp: 2450482
Ion Ratio Lower Upper
95 100
174 75.6 59.8 89.6
175 5.4 4.3 6.5

