

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022621\
 Data File : VL036399.D
 Acq On : 26 Feb 2021 12:54
 Operator : SY/AP
 Sample : M1502-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 27 03:16:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1585095	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	3401219	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	3023022	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2462018	9.90	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

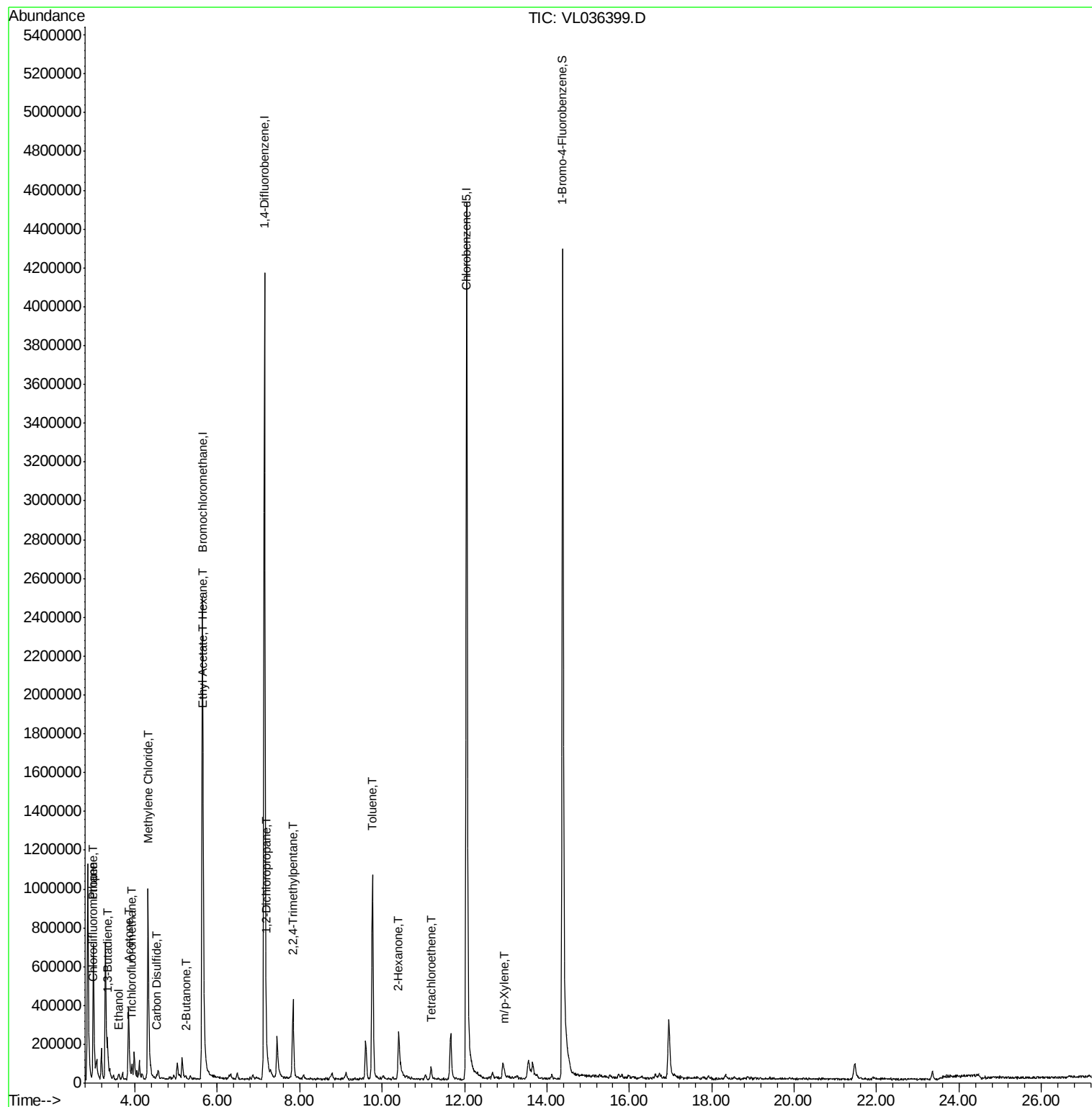
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.97	51	9045	0.046 ppbv #	82
9) Propene	2.99	41	357524	4.869 ppbv	98
11) Trichlorofluoromethane	3.92	101	40082	0.173 ppbv	92
13) Ethanol	3.60	45	16083	1.166 ppbv #	27
15) Acetone	3.84	43	236436	1.220 ppbv	95
16) 1,3-Butadiene	3.33	39	41890	0.452 ppbv #	34
20) Methylene Chloride	4.32	84	372542	5.960 ppbv	97
25) Ethyl Acetate	5.66	43	74602	0.199 ppbv #	76
26) Hexane	5.65	57	97731	0.636 ppbv #	40
27) Carbon Disulfide	4.52	76	7866	0.056 ppbv #	1
34) 2-Butanone	5.23	43	16745	0.074 ppbv #	74
39) 1,2-Dichloropropane	7.19	63	15153	0.129 ppbv #	23
44) 2,2,4-Trimethylpentane	7.84	57	366080	0.697 ppbv	95
51) 2-Hexanone	10.39	43	12547	0.049 ppbv #	29
52) Tetrachloroethene	11.18	164	6682	0.063 ppbv #	82
53) Toluene	9.77	91	78740	0.252 ppbv #	25
59) m/p-Xylene	12.96	91	13587	0.037 ppbv #	33

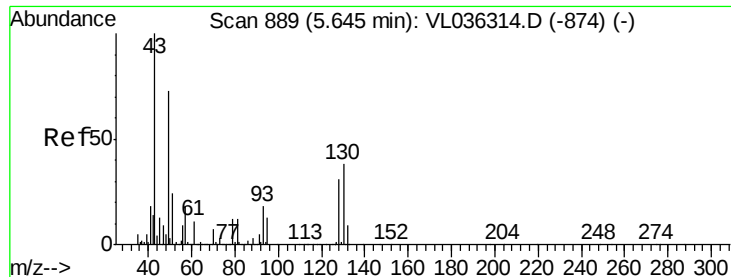
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 27 03:16:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration

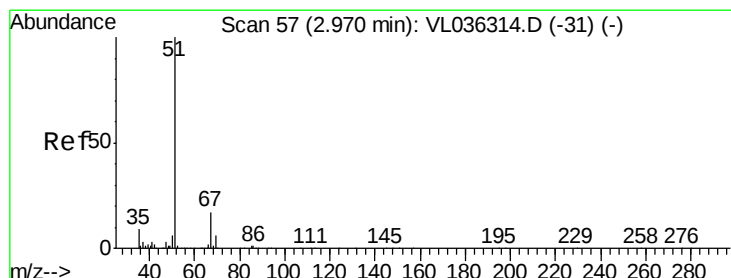
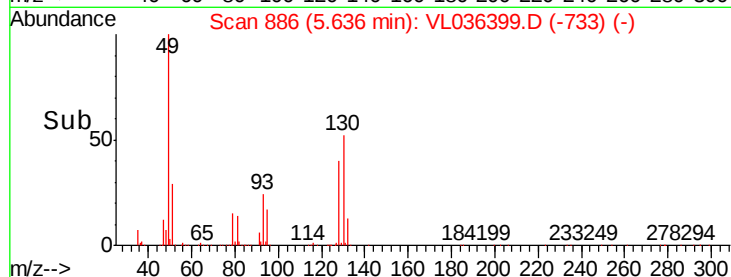
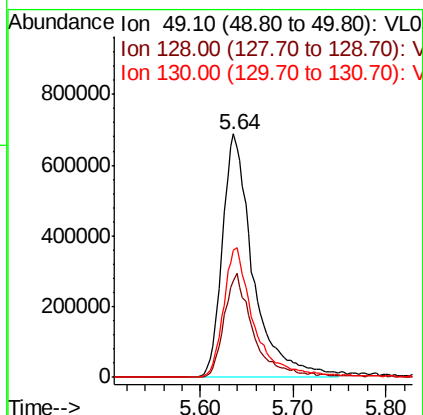
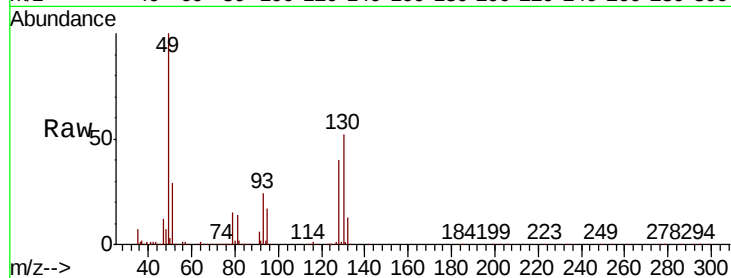




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 886
Delta R.T. -0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

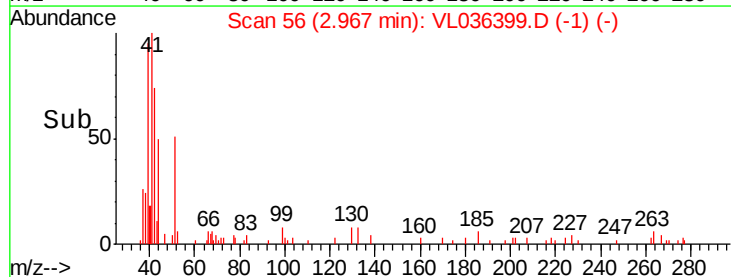
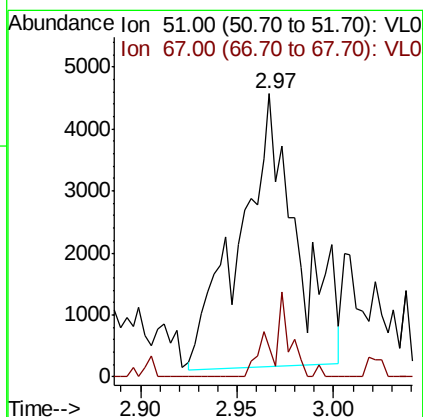
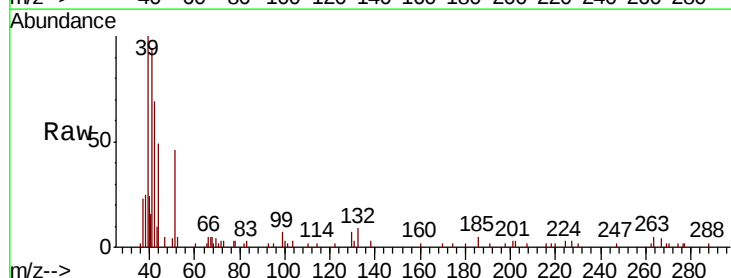
Instrument :
MSVOA_L
ClientSampleId :

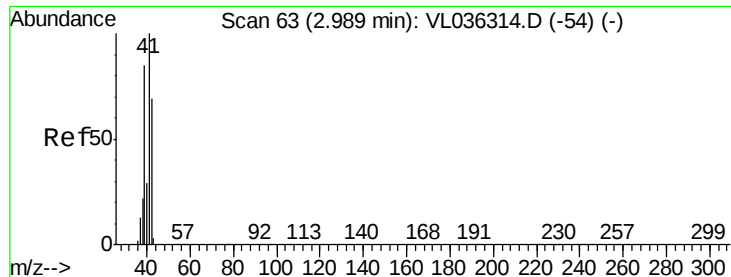
Tot Ion: 49 Resp: 1585095
Ion Ratio Lower Upper
49 100
128 41.7 20.8 62.5
130 53.7 26.7 80.1



#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.00 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

Tgt Ion: 51 Resp: 9045
Ion Ratio Lower Upper
51 100
67 10.2 14.7 22.1#





#9

Propene

Concen: 4.869 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Instrument :

MSVOA_L

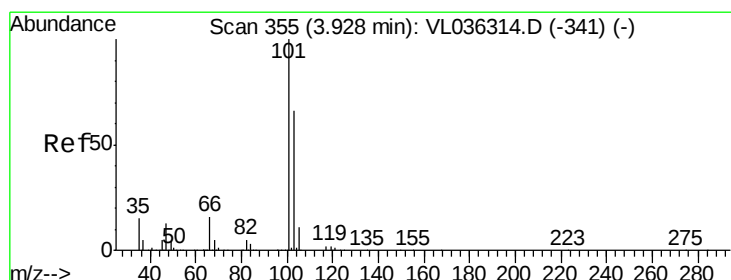
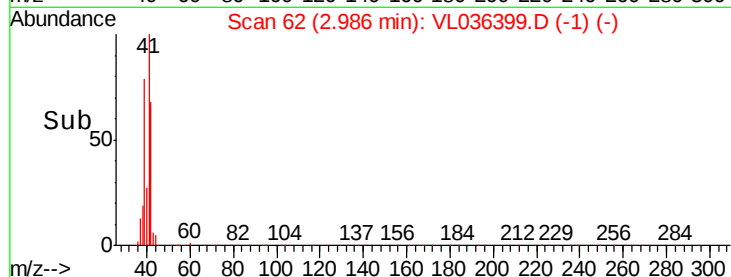
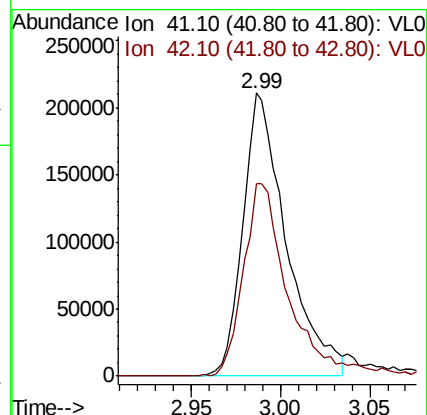
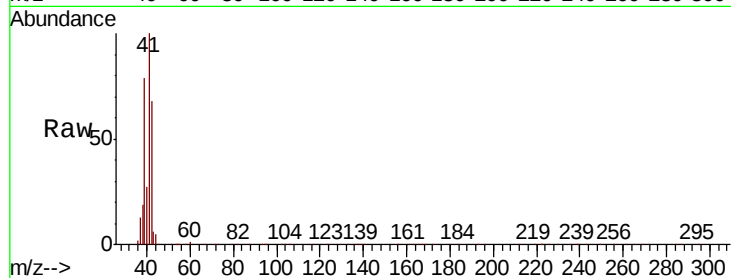
ClientSampleId :

Tot Ion: 41 Resp: 357524

Ion Ratio Lower Upper

41 100

42 71.8 56.2 84.2



#11

Trichlorofluoromethane

Concen: 0.173 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.01 min

Lab File: VL036399.D

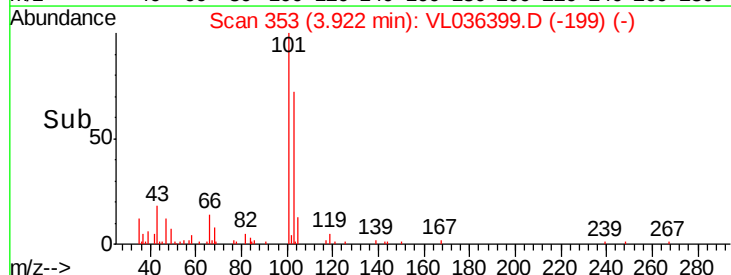
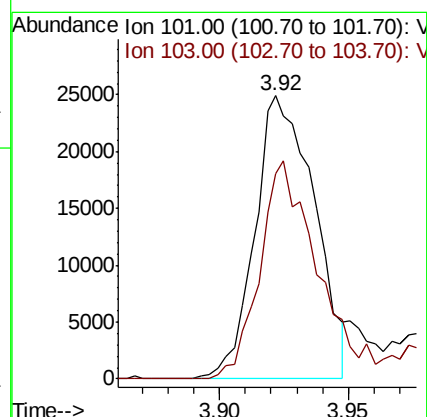
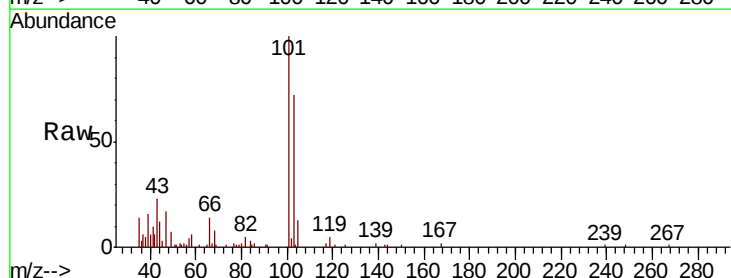
Acq: 26 Feb 2021 12:54

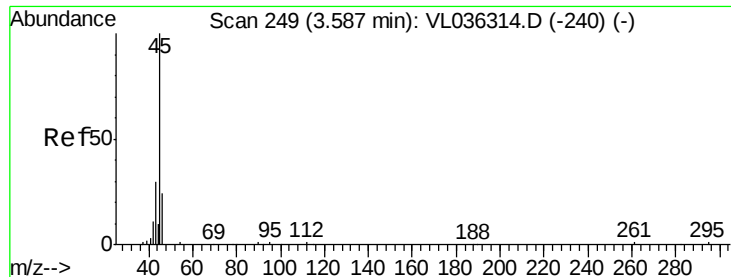
Tgt Ion: 101 Resp: 40082

Ion Ratio Lower Upper

101 100

103 72.4 52.9 79.3

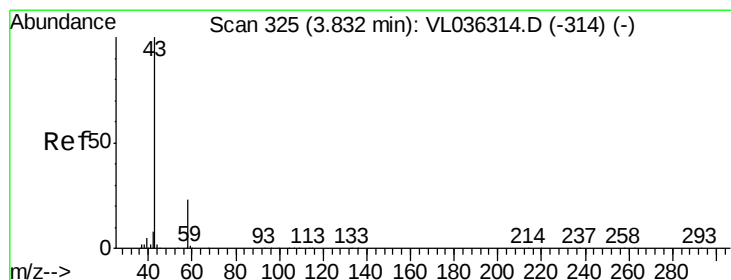
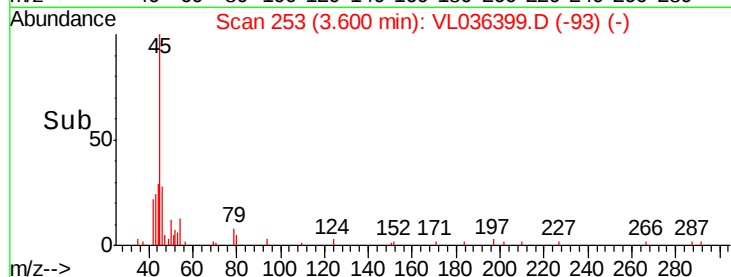
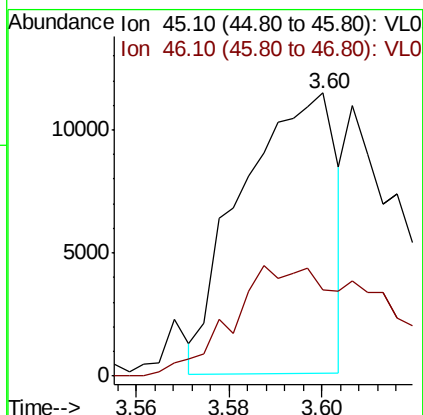
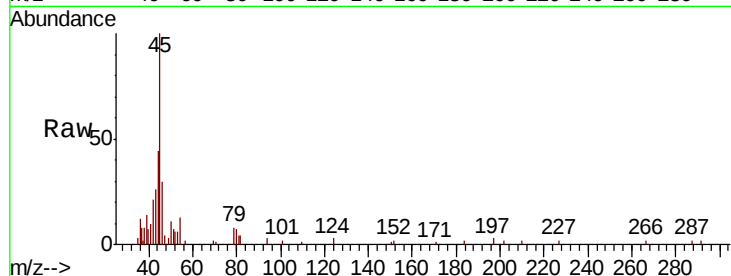




#13
Ethanol
Concen: 1.166 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

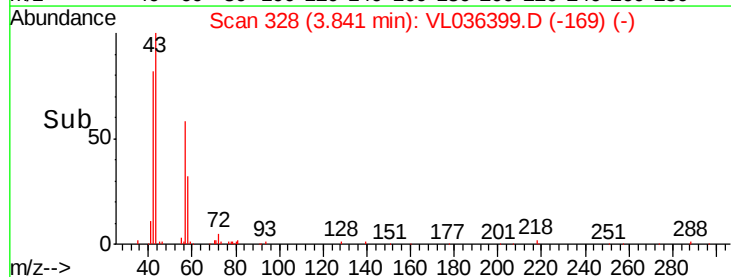
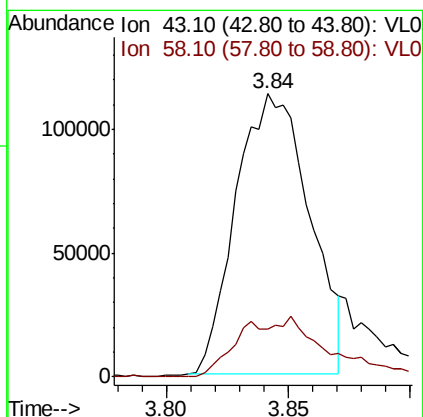
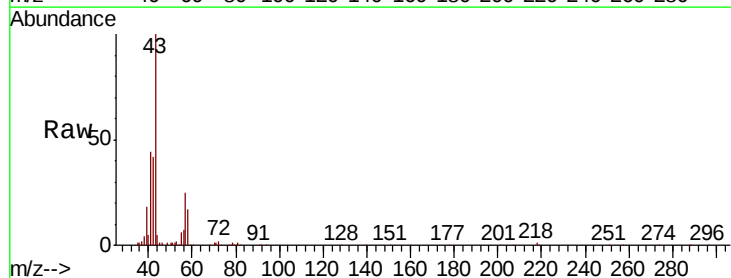
Instrument :
MSVOA_L
ClientSampleId :

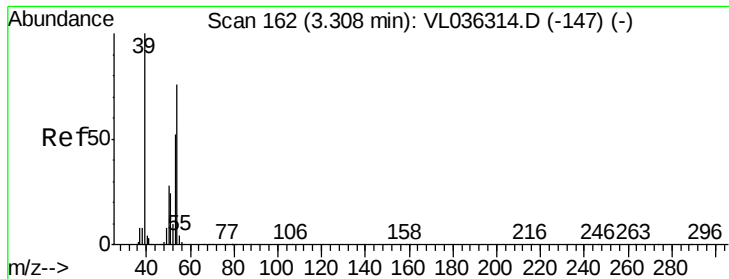
Tot Ion: 45 Resp: 16083
Ion Ratio Lower Upper
45 100
46 91.7 17.7 70.7#



#15
Acetone
Concen: 1.220 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

Tgt Ion: 43 Resp: 236436
Ion Ratio Lower Upper
43 100
58 27.9 20.3 30.5





#16

1,3-Butadiene

Concen: 0.452 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.02 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

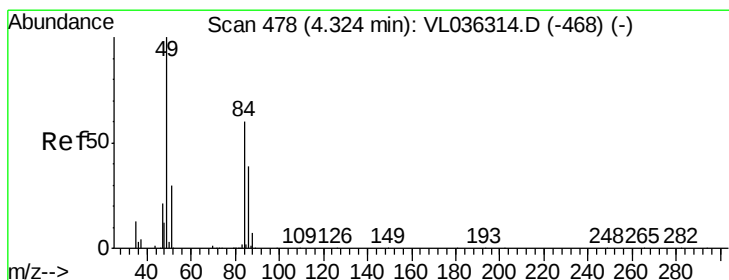
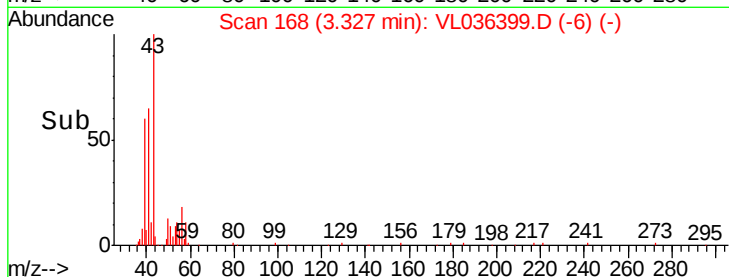
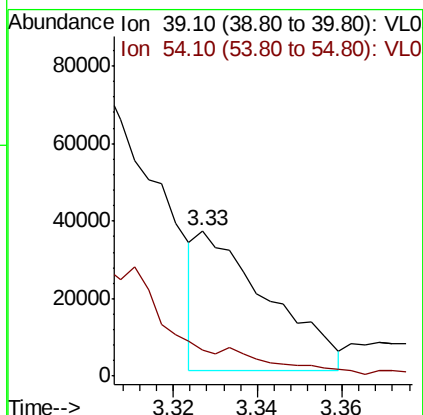
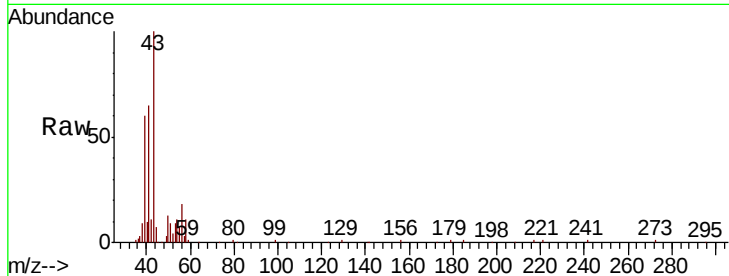
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 39 Resp: 41890

Ion Ratio Lower Upper

39 100

54 138.9 64.4 96.6#



#20

Methylene Chloride

Concen: 5.960 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Tgt Ion: 84 Resp: 372542

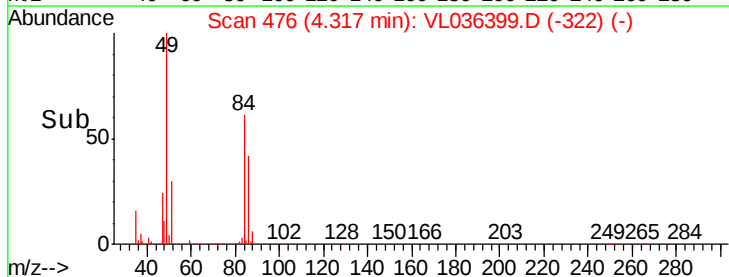
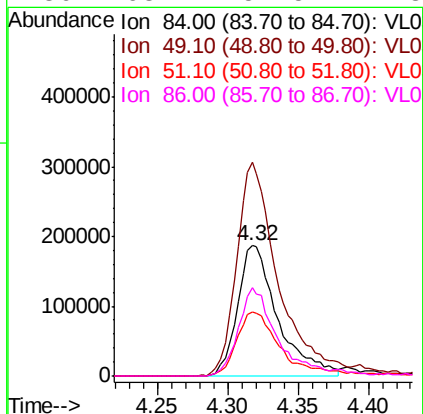
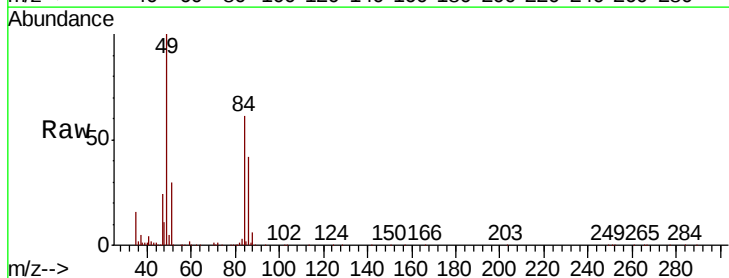
Ion Ratio Lower Upper

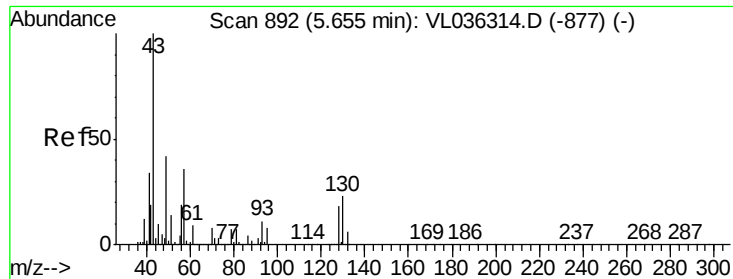
84 100

49 163.5 133.8 200.8

51 49.0 41.4 62.0

86 68.2 51.5 77.3

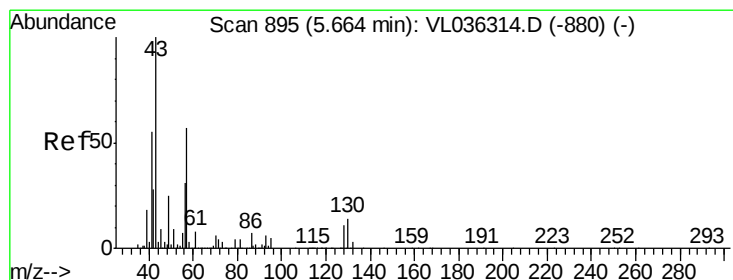
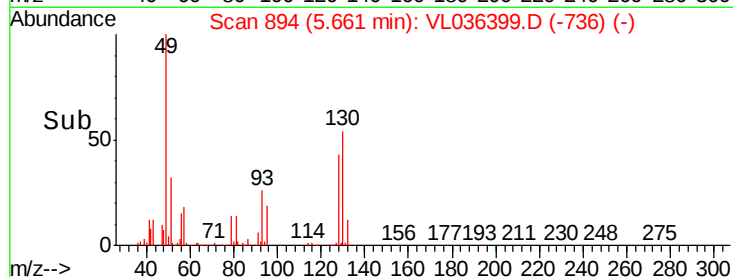
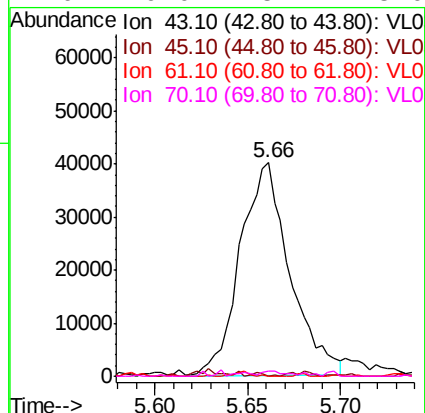
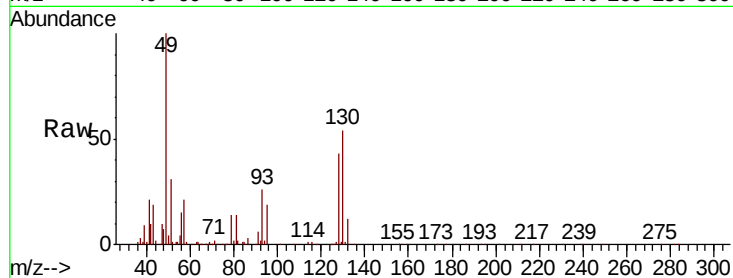




#25
Ethyl Acetate
Concen: 0.199 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

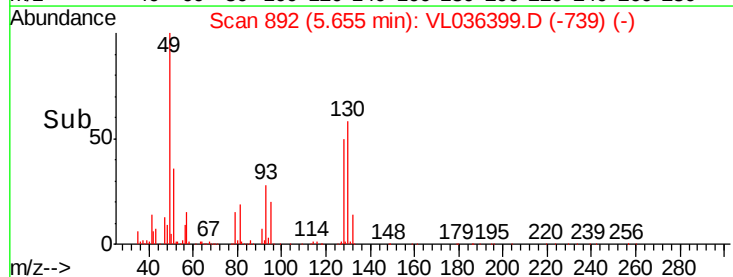
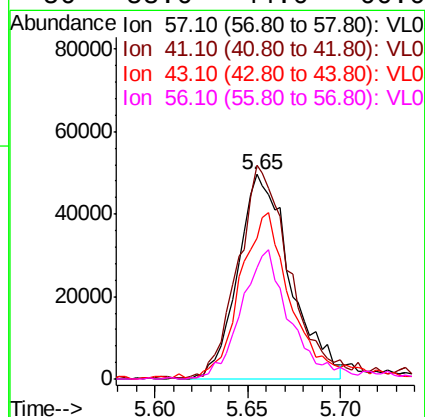
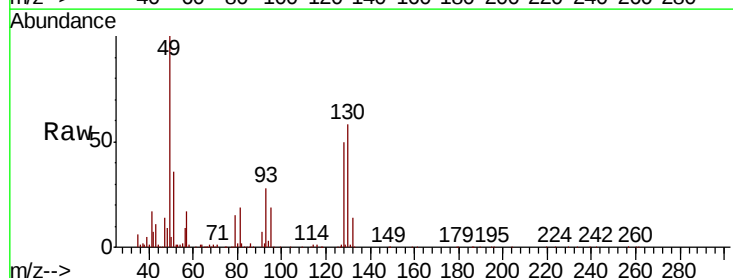
Instrument :
MSVOA_L
ClientSampleId :

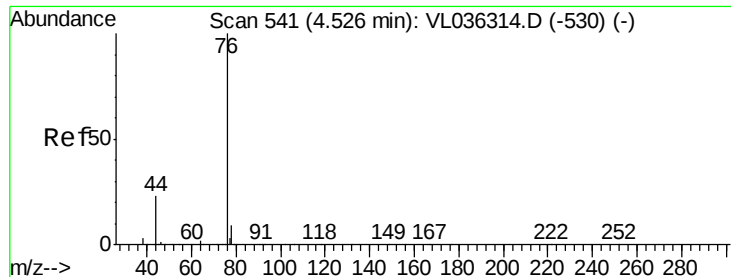
Tot Ion:	43	Resp:	74602
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.3	12.5#
61	0.9	7.3	10.9#
70	0.0	5.4	8.0#



#26
Hexane
Concen: 0.636 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

Tgt Ion:	57	Resp:	97731
Ion	Ratio	Lower	Upper
57	100		
41	106.3	81.7	122.5
43	83.8	199.1	298.7#
56	58.6	44.0	66.0





#27

Carbon Disulfide

Concen: 0.056 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.01 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Instrument :

MSVOA_L

ClientSampleId :

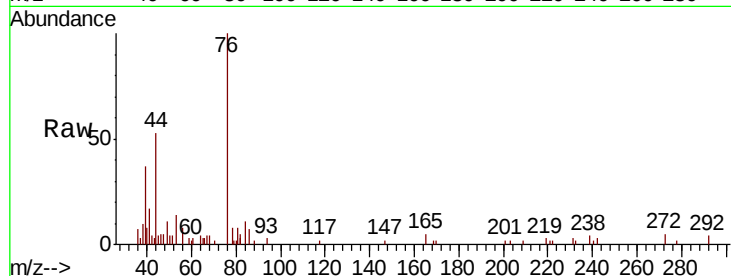
Tot Ion: 76 Resp: 7866

Ion Ratio Lower Upper

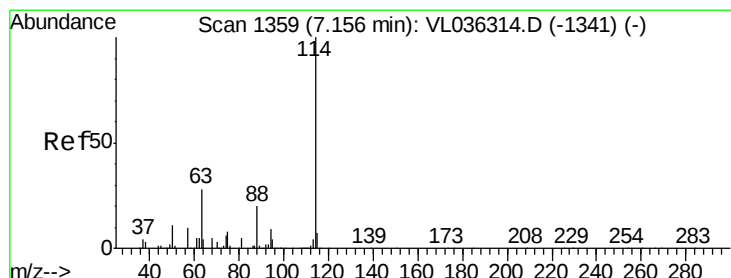
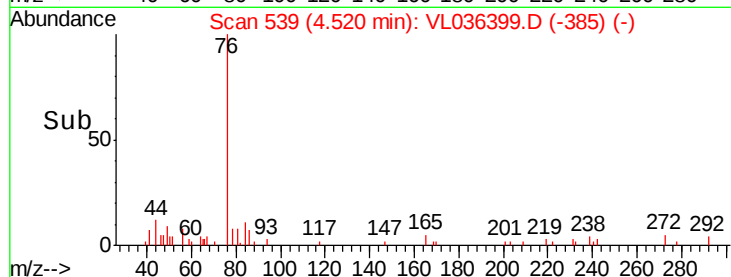
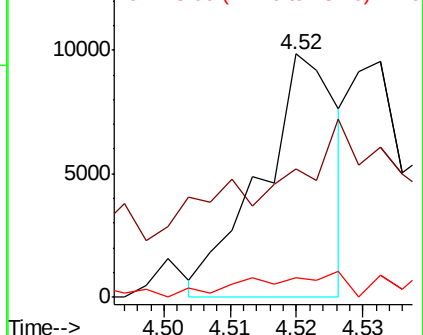
76 100

44 107.6 18.4 27.6#

78 15.8 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

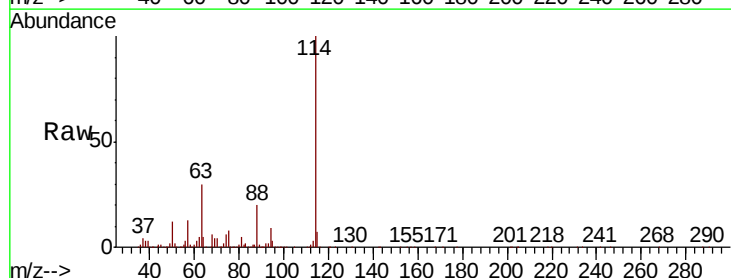
Tgt Ion: 114 Resp: 3401219

Ion Ratio Lower Upper

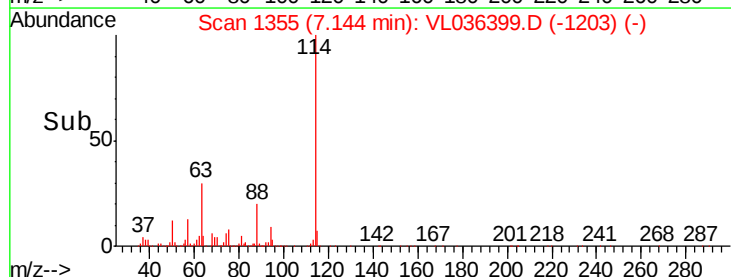
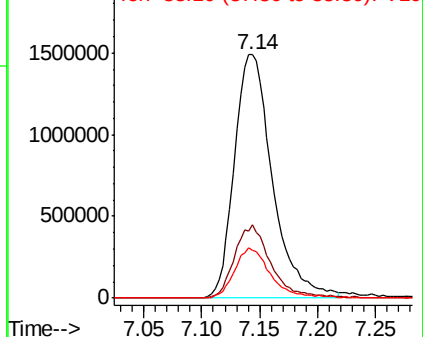
114 100

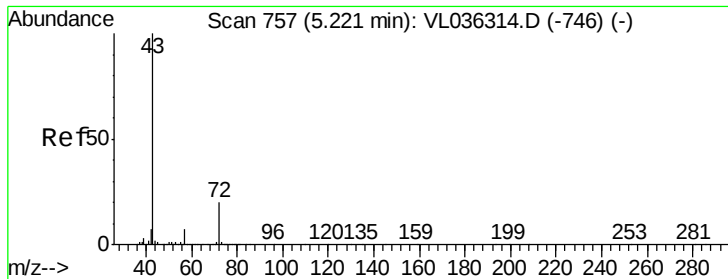
63 29.1 24.1 36.1

88 19.8 16.0 24.0



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

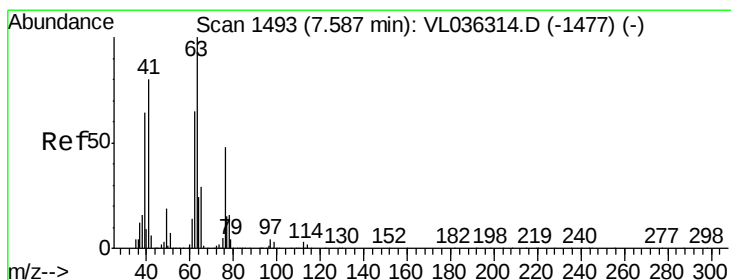
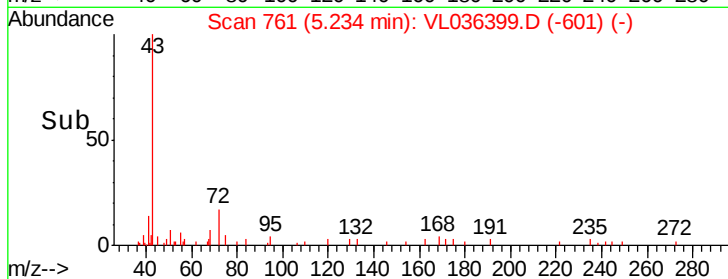
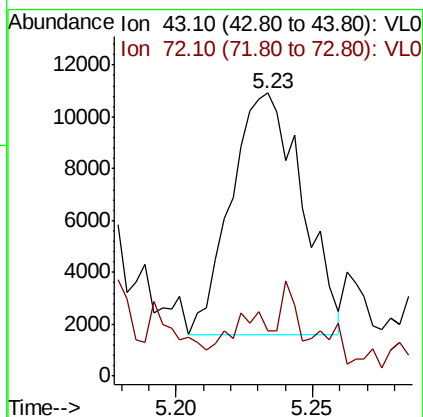
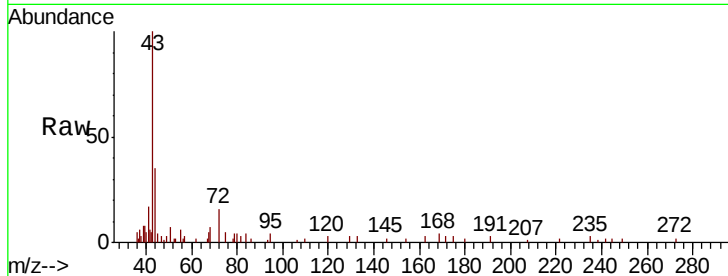




#34
2-Butanone
Concen: 0.074 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

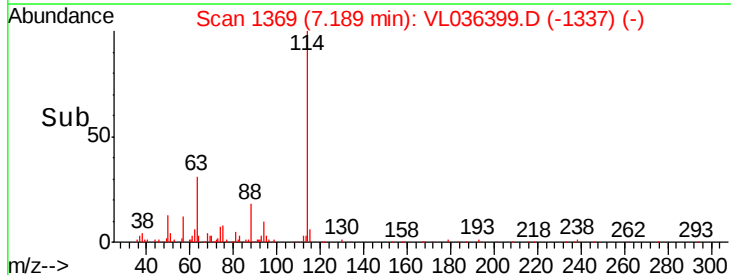
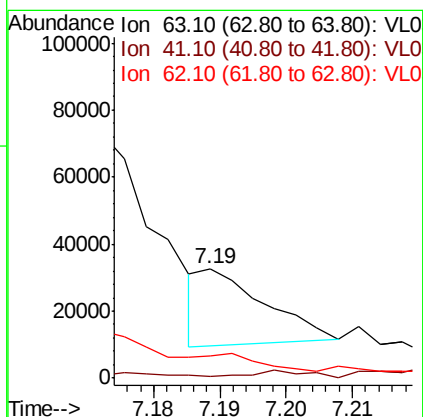
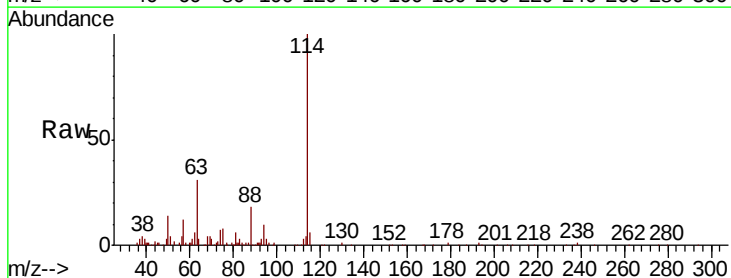
Instrument :
MSVOA_L
ClientSampled :

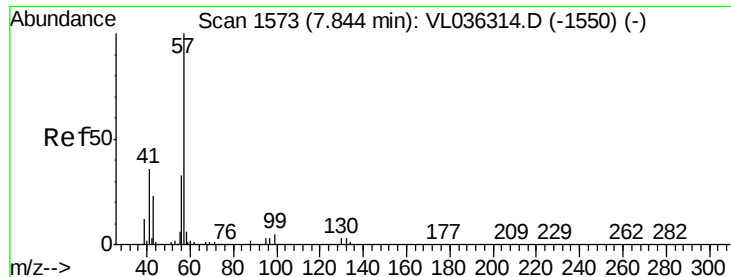
Tot Ion: 43 Resp: 16745
Ion Ratio Lower Upper
43 100
72 33.0 16.7 25.1#



#39
1,2-Dichloropropane
Concen: 0.129 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.40 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

Tgt Ion: 63 Resp: 15153
Ion Ratio Lower Upper
63 100
41 1.7 63.8 95.6#
62 15.7 52.3 78.5#





#44

2,2,4-Trimethylpentane

Concen: 0.697 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

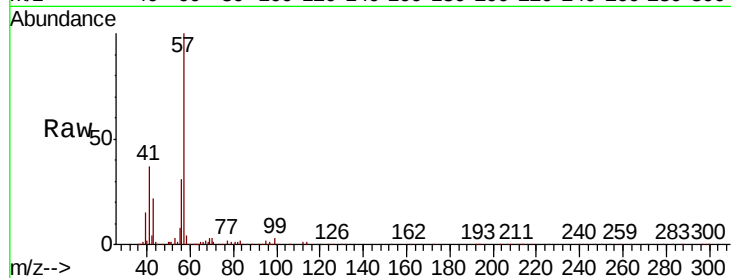
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 366080

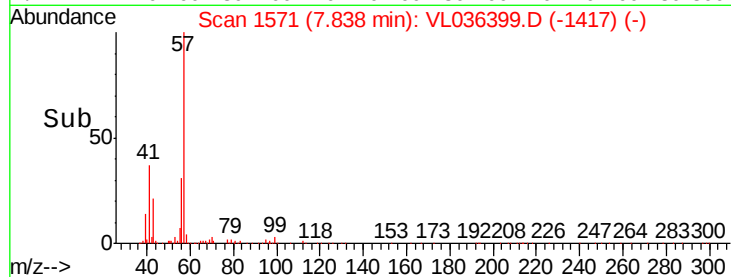
Ion	Ratio	Lower	Upper
57	100		
41	39.8	28.8	43.2
56	34.4	25.8	38.6



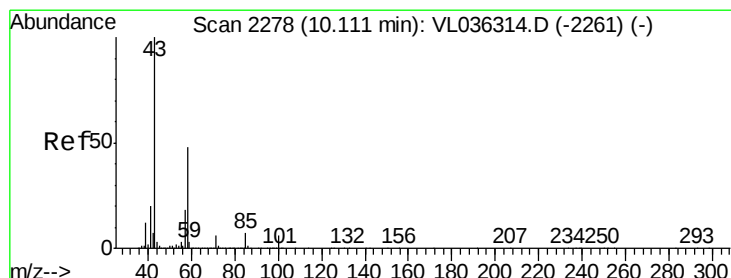
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



Time-->



#51

2-Hexanone

Concen: 0.049 ppbv

RT: 10.39 min Scan# 2364

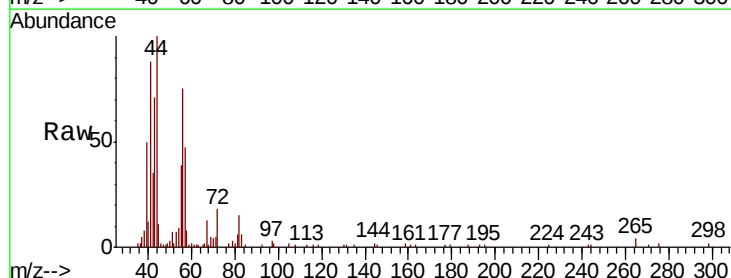
Delta R.T. 0.28 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Tgt Ion: 43 Resp: 12547

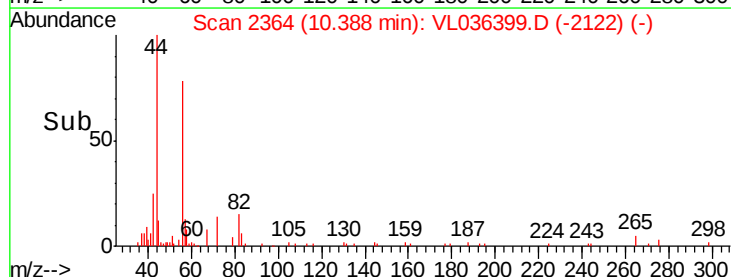
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.7	58.1#
98	10.0	0.4	0.6#



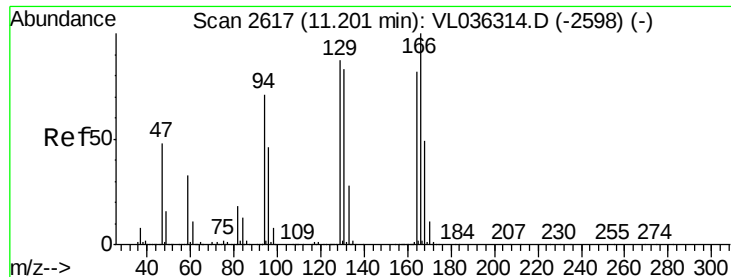
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



Time-->



#52

Tetrachloroethene

Concen: 0.063 ppbv

RT: 11.18 min Scan# 2611

Delta R.T. -0.02 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 6682

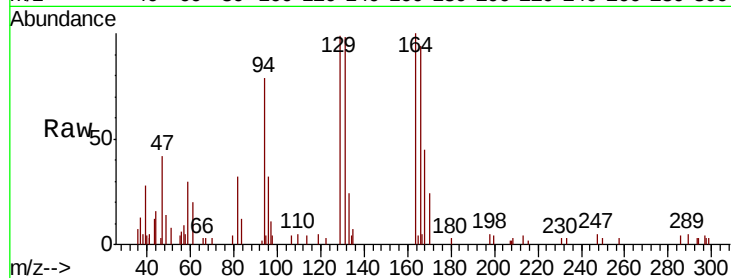
Ion Ratio Lower Upper

164 100

166 87.3 97.8 146.8#

129 92.6 84.9 127.3

131 93.8 81.4 122.2

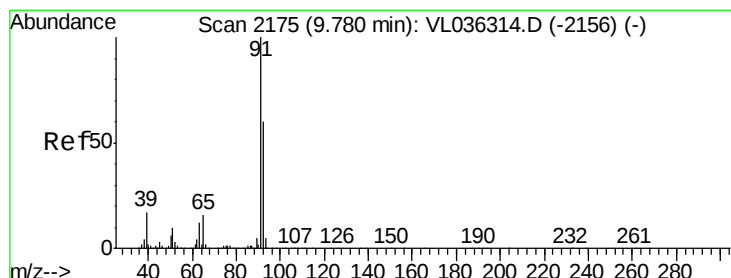
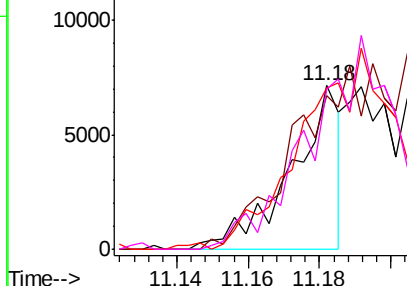
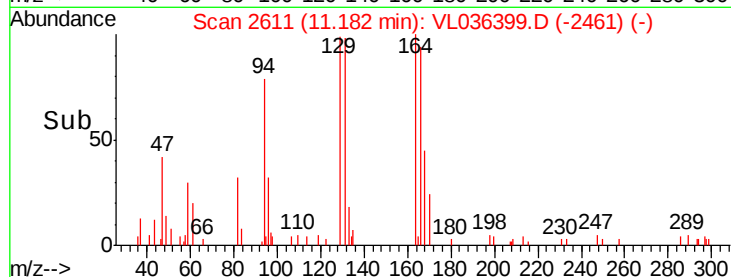


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.252 ppbv

RT: 9.77 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL036399.D

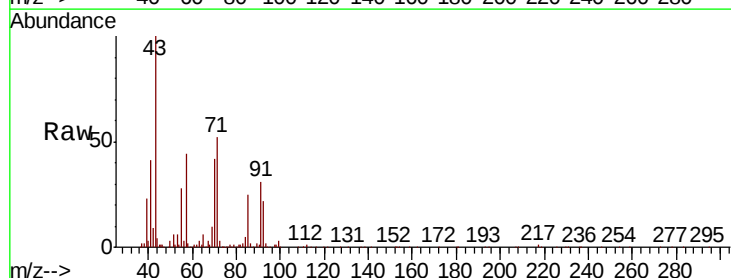
Acq: 26 Feb 2021 12:54

Tgt Ion: 91 Resp: 78740

Ion Ratio Lower Upper

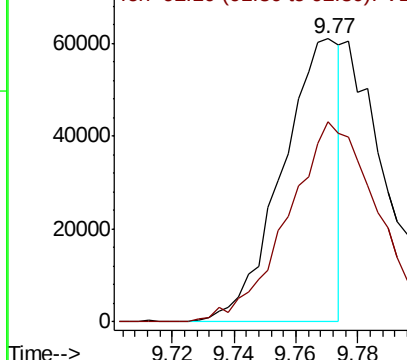
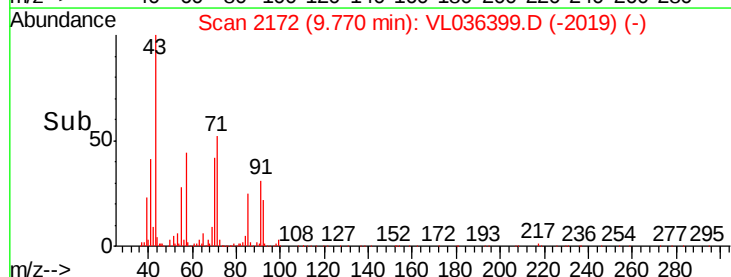
91 100

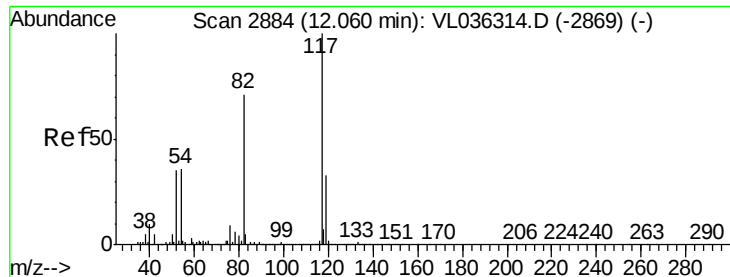
92 117.5 48.6 72.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

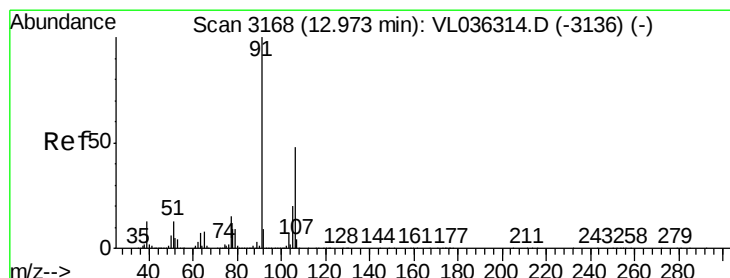
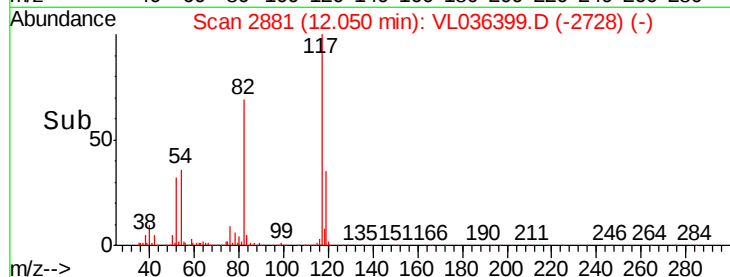
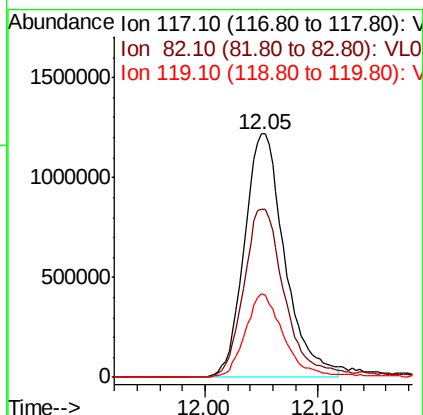
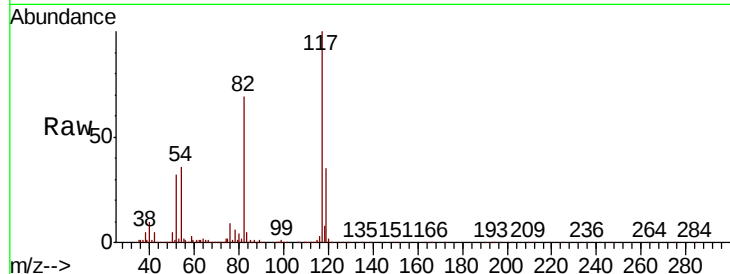




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

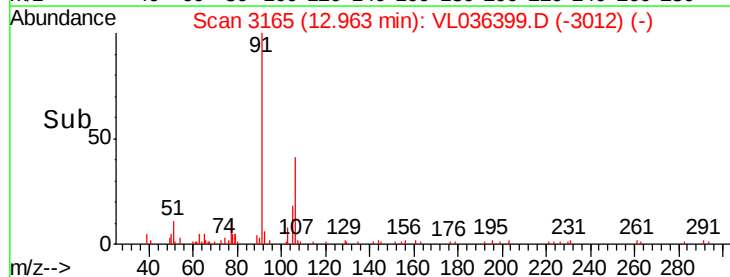
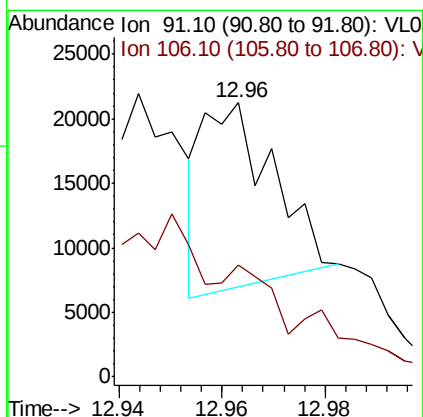
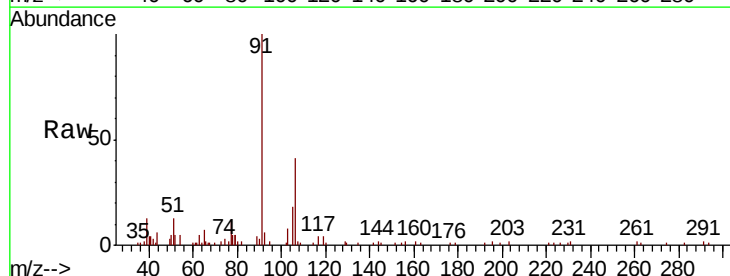
Instrument :
MSVOA_L
ClientSampleId :

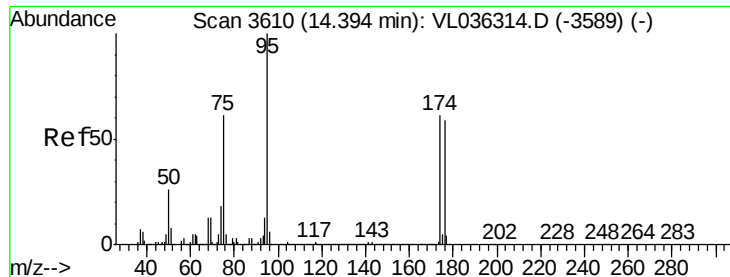
Tot Ion:117 Resp: 3023022
Ion Ratio Lower Upper
117 100
82 74.1 59.1 88.7
119 33.9 46.3 69.5#



#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 12.96 min Scan# 3165
Delta R.T. -0.01 min
Lab File: VL036399.D
Acq: 26 Feb 2021 12:54

Tgt Ion: 91 Resp: 13587
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.899 ppbv

RT: 14.38 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL036399.D

Acq: 26 Feb 2021 12:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2462018

Ion Ratio Lower Upper

95 100

174 63.8 49.8 74.6

175 4.6 3.7 5.5

