

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030121\
 Data File : VL036413.D
 Acq On : 1 Mar 2021 14:03
 Operator : SY/AP
 Sample : M1463-14DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 02 02:40:34 2021
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1563526	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.20	114	3335516	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.12	117	2976250	10.00	ppbv	0.06

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2239080	9.14	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.40%

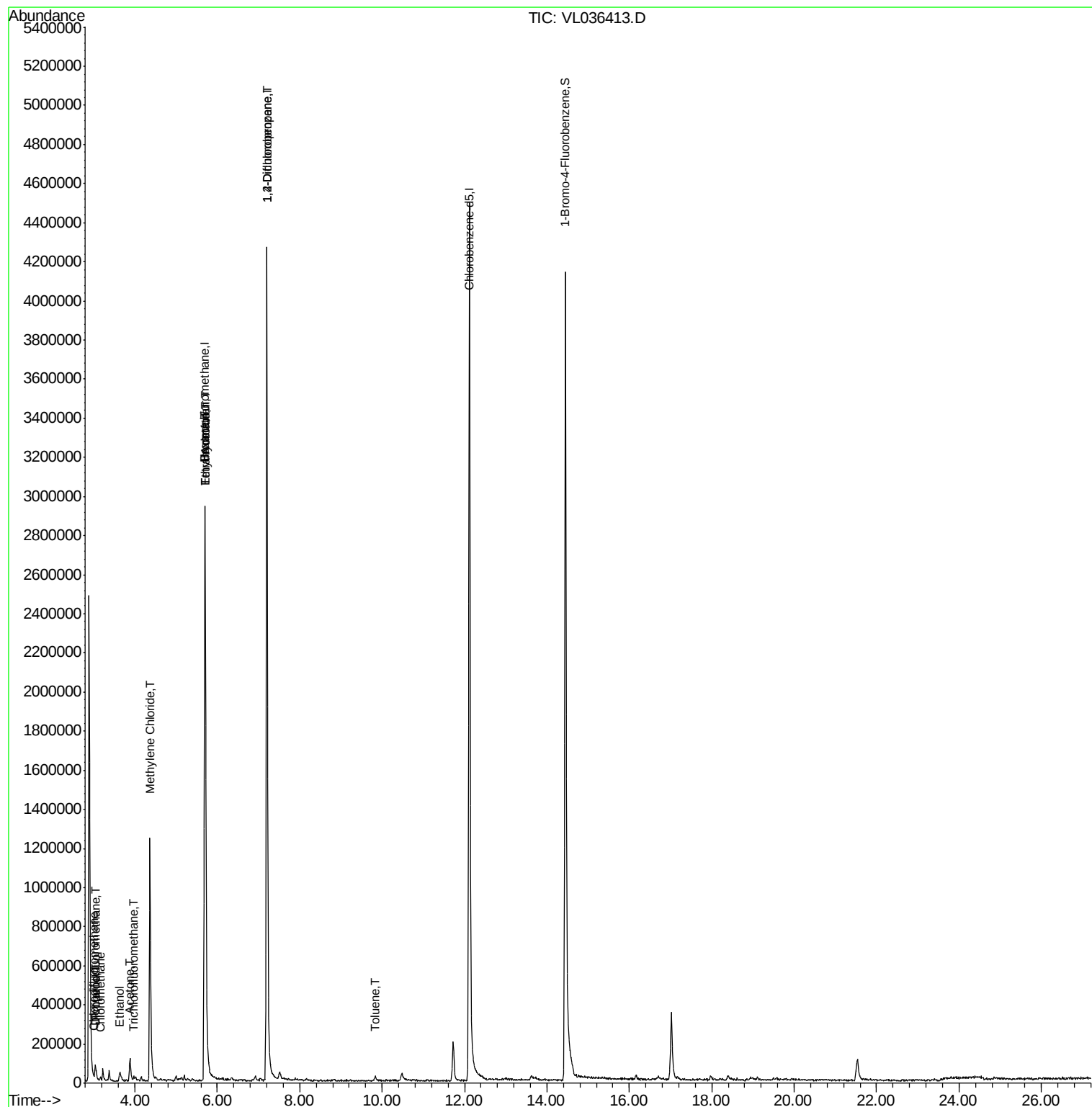
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	25705	0.110	ppbv 94
3) Chlorodifluoromethane	3.01	51	26655	0.137	ppbv # 83
4) Chloromethane	3.15	50	5829	0.062	ppbv # 88
9) Propene	3.03	41	24324	0.336	ppbv 87
11) Trichlorofluoromethane	3.98	101	11022	0.048	ppbv 92
13) Ethanol	3.63	45	29389	2.160	ppbv # 32
15) Acetone	3.87	43	79053	0.414	ppbv # 35
20) Methylene Chloride	4.37	84	505555	8.199	ppbv 92
25) Ethyl Acetate	5.71	43	445497	1.207	ppbv # 78
26) Hexane	5.71	57	597713	3.943	ppbv # 39
39) 1,2-Dichloropropane	7.20	63	959415	8.336	ppbv # 23
41) Tetrahydrofuran	5.71	42	255623	2.067	ppbv # 50
53) Toluene	9.84	91	9905	0.032	ppbv # 37

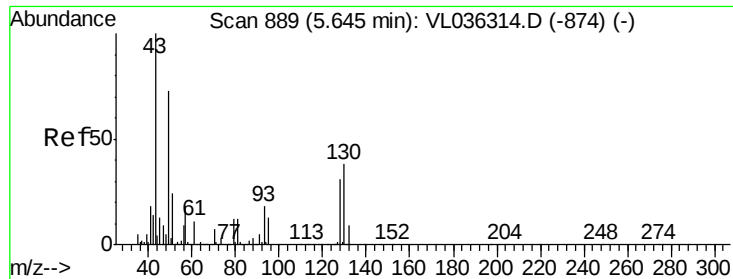
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 02 02:40:34 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: 5.69 min Scan# 903

Delta R.T. 0.05 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

Instrument :
MSVOA_L
ClientSampleId :

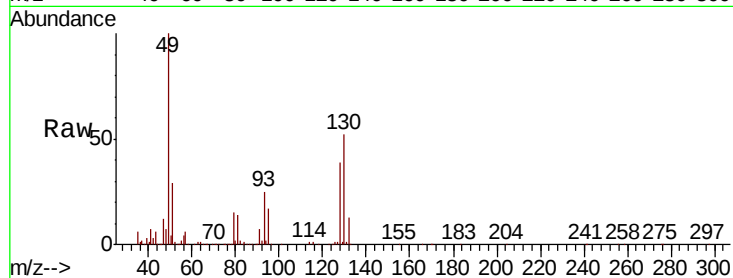
Tot Ion: 49 Resp: 1563526

Ion Ratio Lower Upper

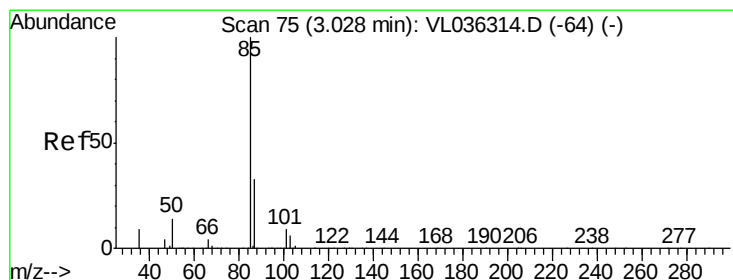
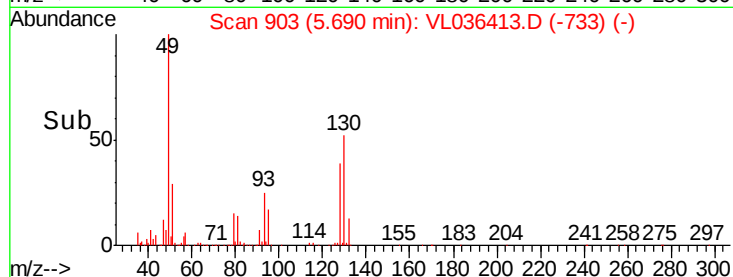
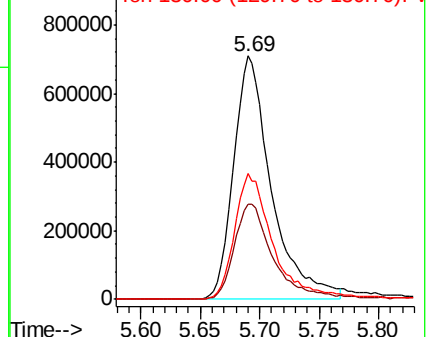
49 100

128 41.6 20.8 62.5

130 53.5 26.7 80.1



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



#2

Dichlorodifluoromethane

Concen: 0.110 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.04 min

Lab File: VL036413.D

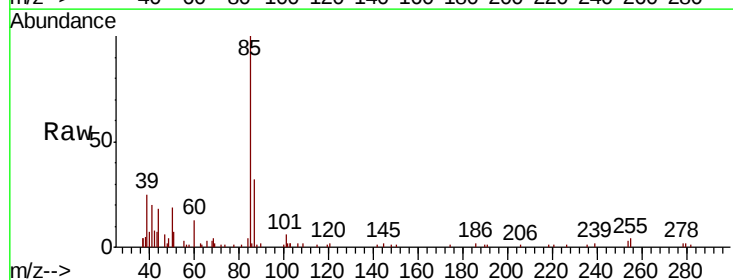
Acq: 1 Mar 2021 14:03

Tgt Ion: 85 Resp: 25705

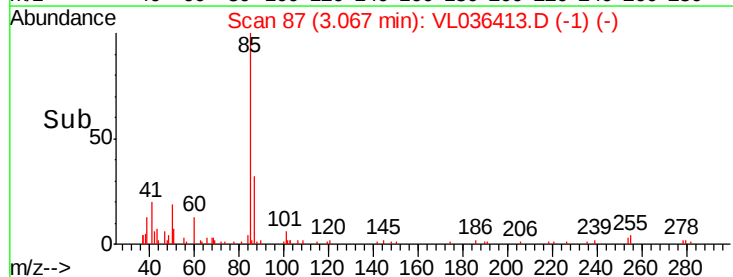
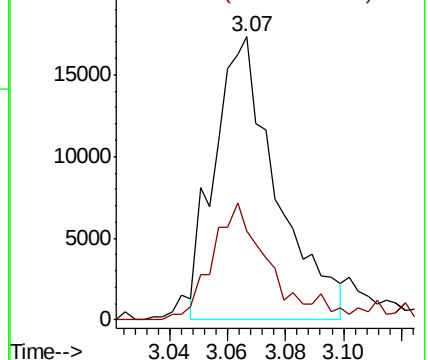
Ion Ratio Lower Upper

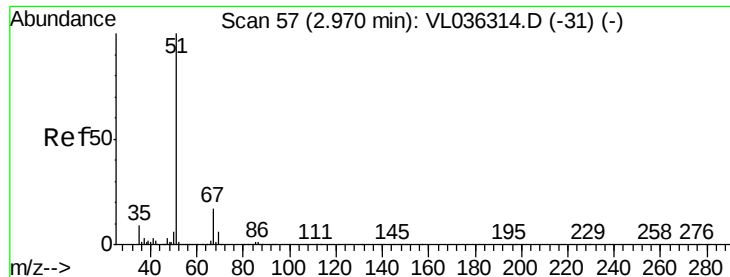
85 100

87 29.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.137 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.04 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

Instrument :

MSVOA_L

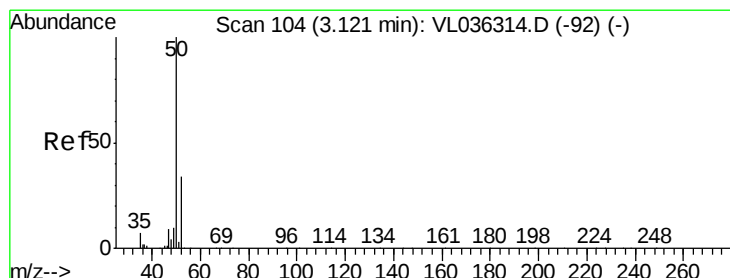
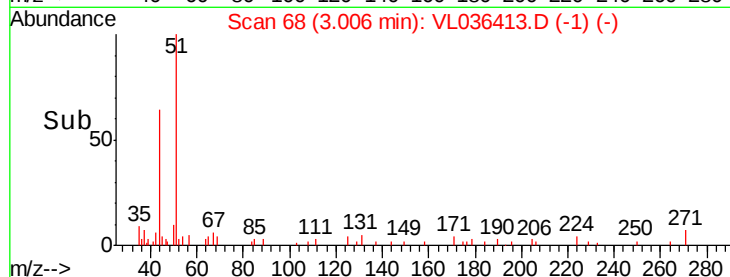
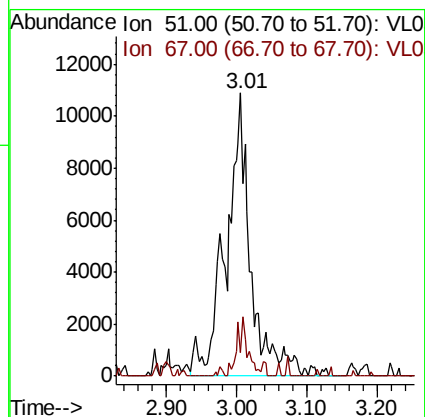
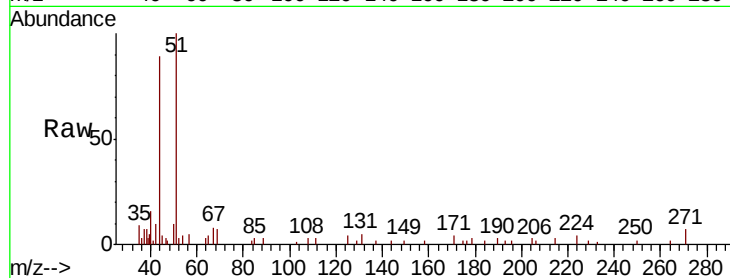
ClientSampleId :

Tot Ion: 51 Resp: 26655

Ion Ratio Lower Upper

51 100

67 11.0 14.7 22.1#



#4

Chloromethane

Concen: 0.062 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036413.D

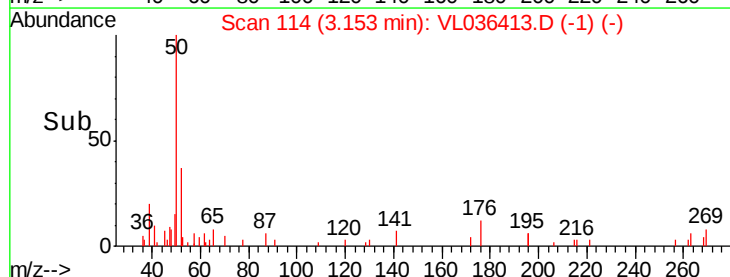
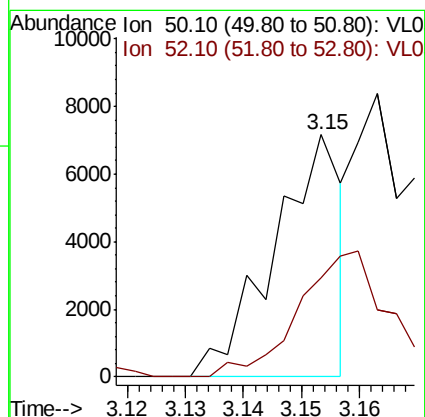
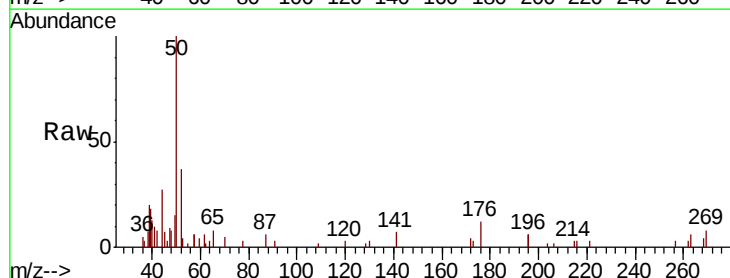
Acq: 1 Mar 2021 14:03

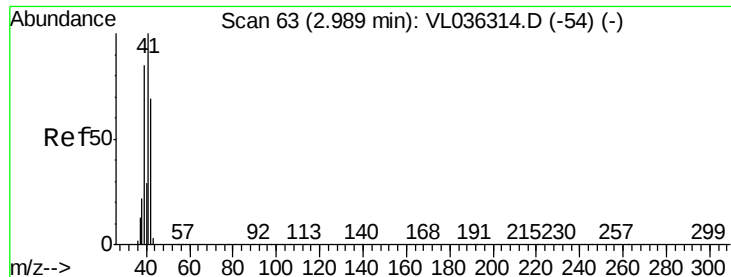
Tgt Ion: 50 Resp: 5829

Ion Ratio Lower Upper

50 100

52 40.8 27.0 40.4#





#9

Propene

Concen: 0.336 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.05 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

Instrument :

MSVOA_L

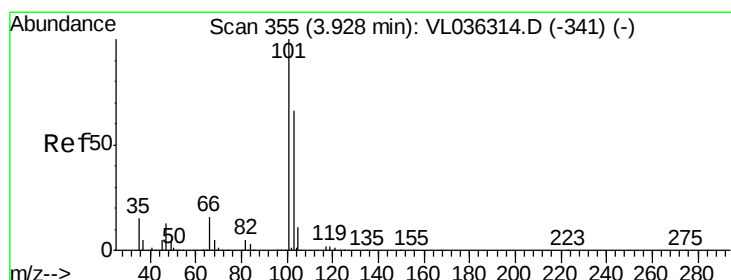
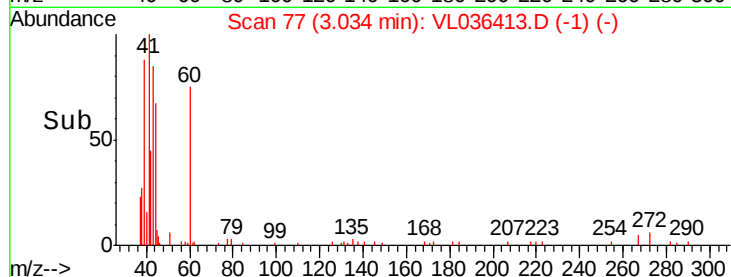
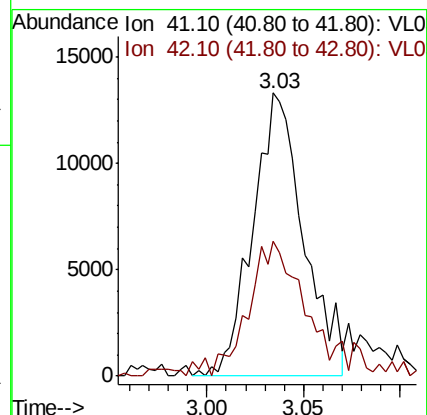
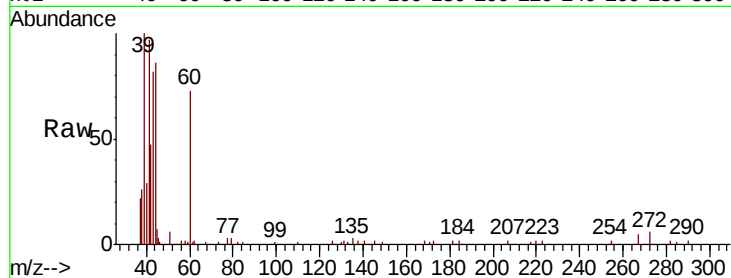
ClientSampleId :

Tot Ion: 41 Resp: 24324

Ion Ratio Lower Upper

41 100

42 59.4 56.2 84.2



#11

Trichlorofluoromethane

Concen: 0.048 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.05 min

Lab File: VL036413.D

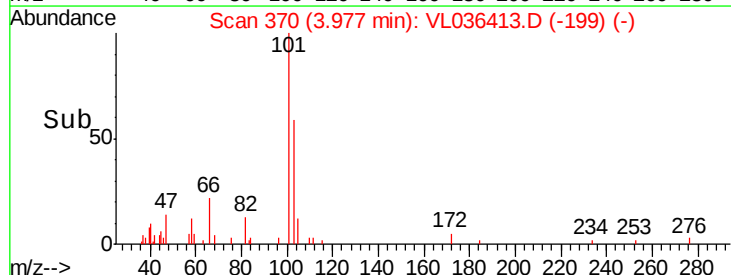
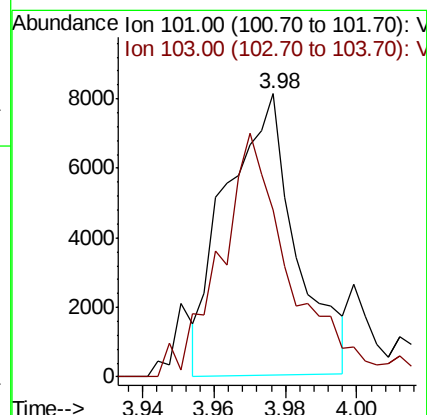
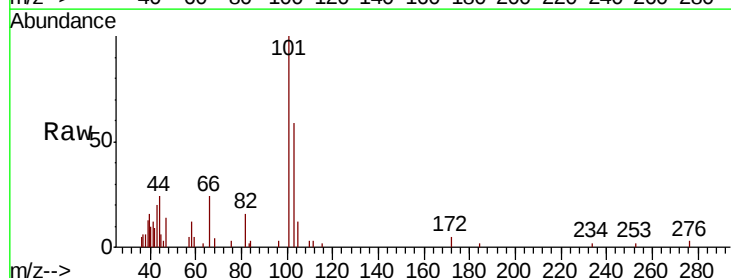
Acq: 1 Mar 2021 14:03

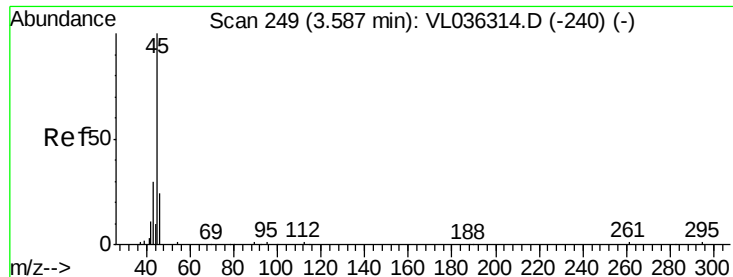
Tgt Ion: 101 Resp: 11022

Ion Ratio Lower Upper

101 100

103 59.6 52.9 79.3

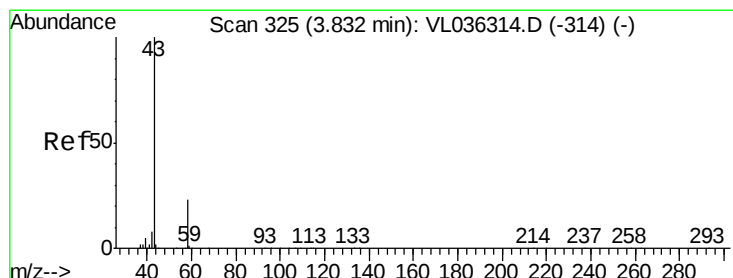
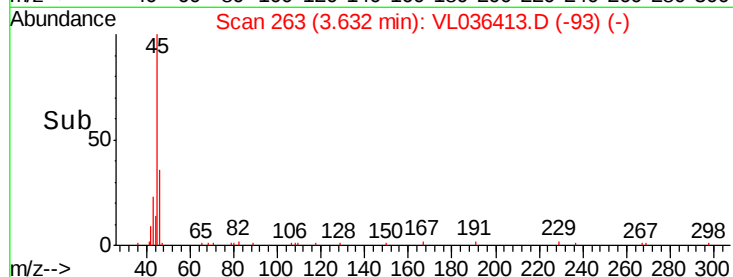
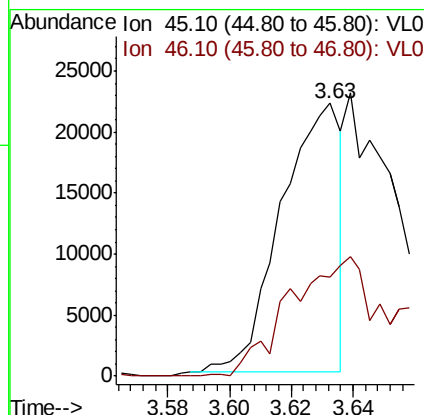
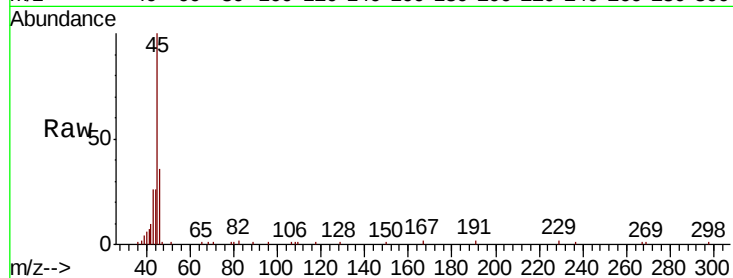




#13
Ethanol
Concen: 2.160 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.05 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

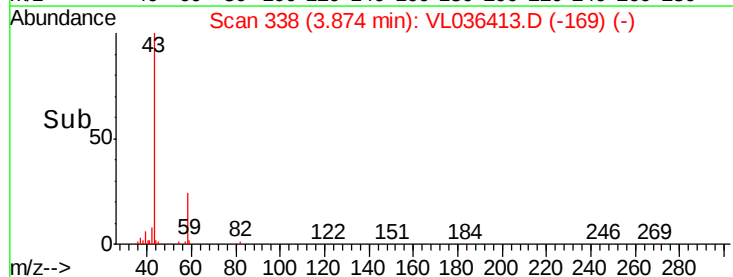
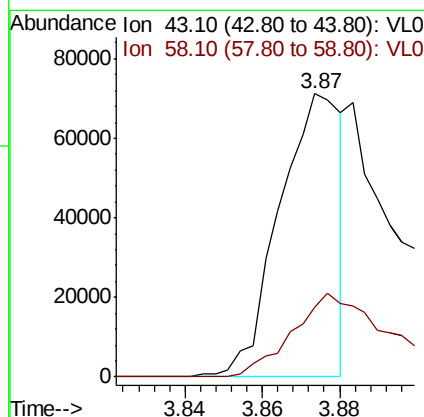
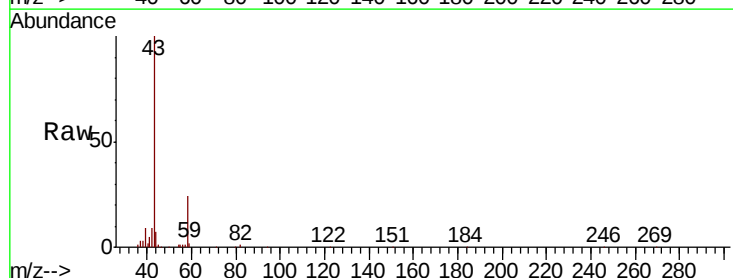
Instrument :
MSVOA_L
ClientSampleId :

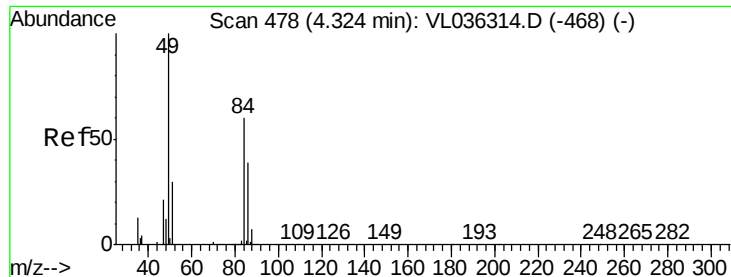
Tot Ion: 45 Resp: 29389
Ion Ratio Lower Upper
45 100
46 0.0 17.7 70.7#



#15
Acetone
Concen: 0.414 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.04 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

Tgt Ion: 43 Resp: 79053
Ion Ratio Lower Upper
43 100
58 58.4 20.3 30.5#

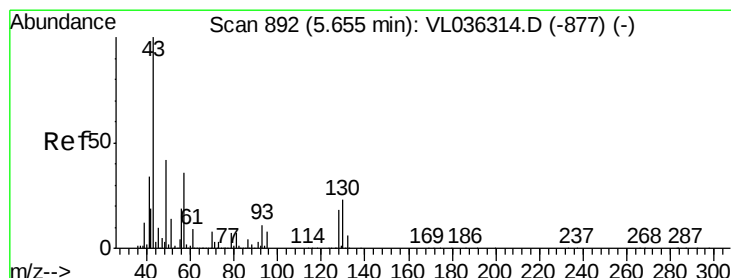
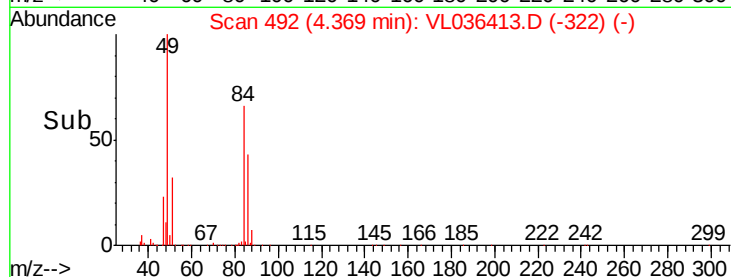
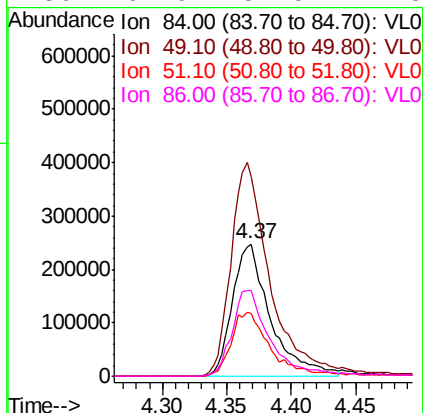
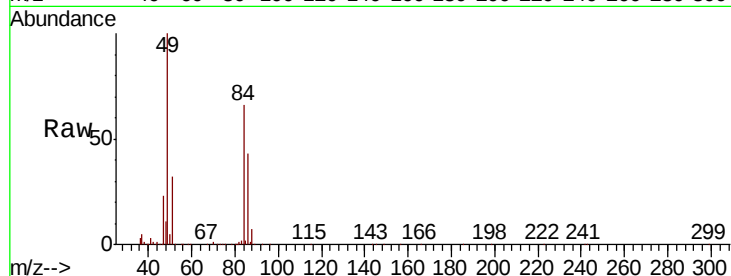




#20
Methvlene Chloride
Concen: 8.199 ppbv
RT: 4.37 min Scan# 492
Delta R.T. 0.05 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

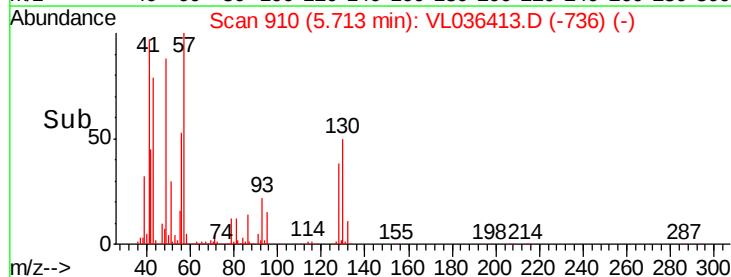
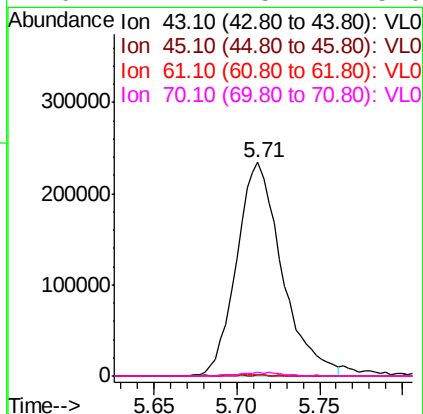
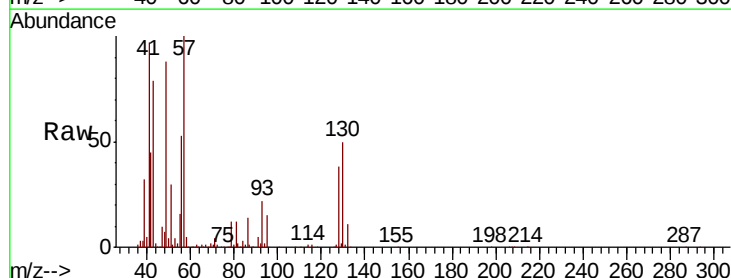
Instrument :
MSVOA_L
ClientSampleId :

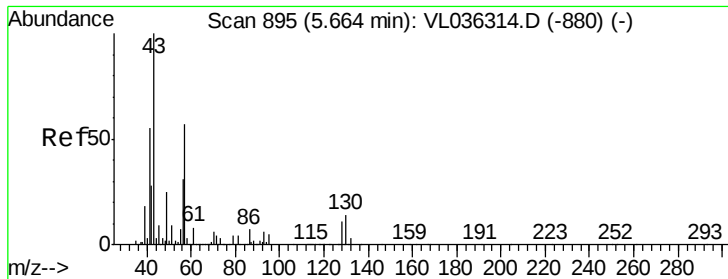
Tot Ion:	84	Resp:	505555
Ion	Ratio	Lower	Upper
84	100		
49	151.0	133.8	200.8
51	47.8	41.4	62.0
86	64.9	51.5	77.3



#25
Ethyl Acetate
Concen: 1.207 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.06 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

Tgt Ion:	43	Resp:	445497
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.3	12.5#
61	0.3	7.3	10.9#
70	1.7	5.4	8.0#

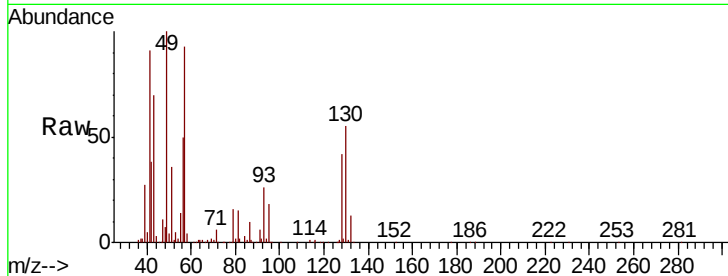




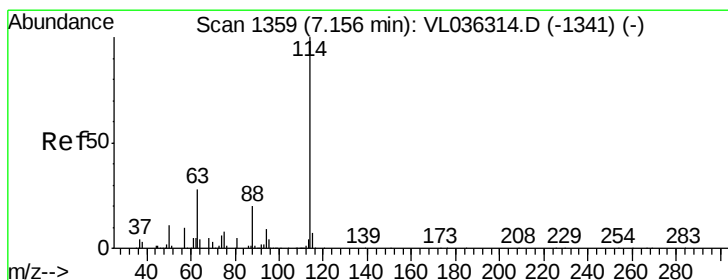
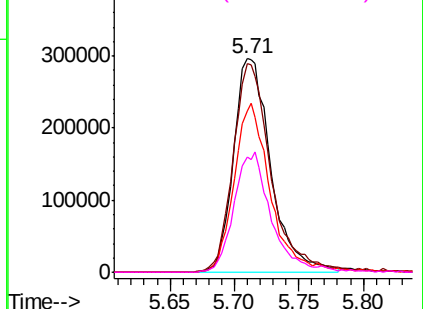
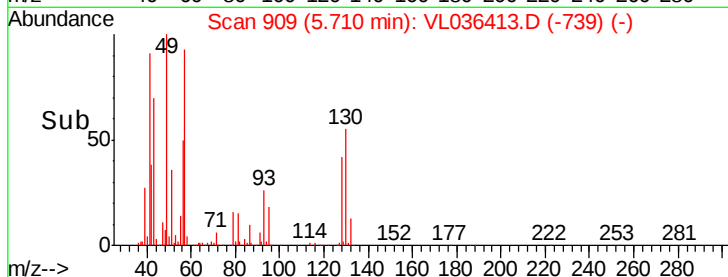
#26
Hexane
Concen: 3.943 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.05 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 597713
Ion Ratio Lower Upper
57 100
41 100.6 81.7 122.5
43 77.3 199.1 298.7#
56 56.6 44.0 66.0

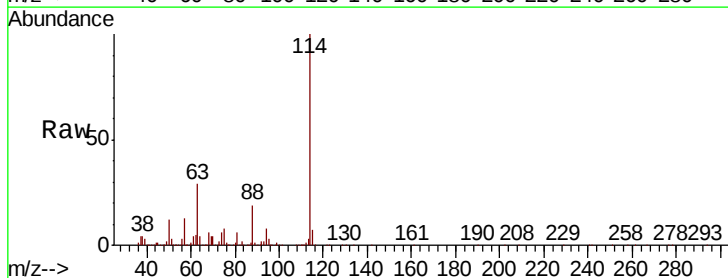


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

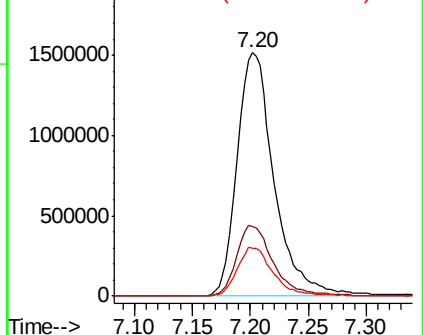
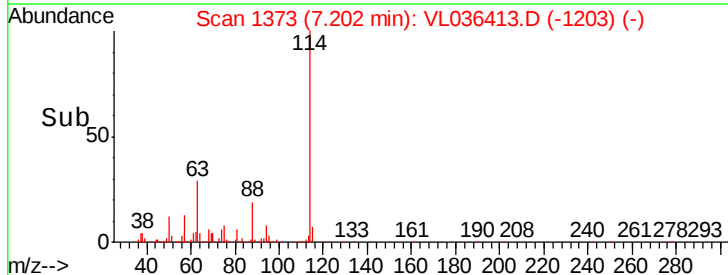


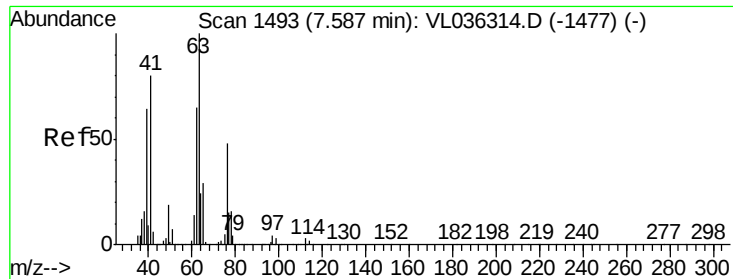
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. 0.05 min
Lab File: VL036413.D
Acq: 1 Mar 2021 14:03

Tgt Ion:114 Resp: 3335516
Ion Ratio Lower Upper
114 100
63 29.6 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

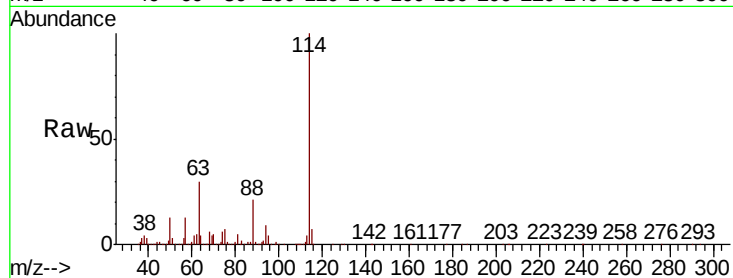




#39
 1,2-Dichloropropane
 Concen: 8.336 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.39 min
 Lab File: VL036413.D
 Acq: 1 Mar 2021 14:03

Instrument :
 MSVOA_L
 ClientSampleID :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	16.7	52.3	78.5#

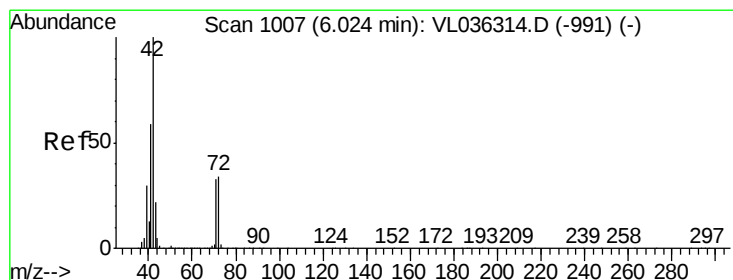
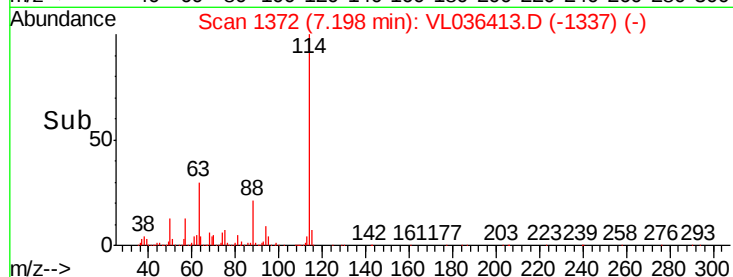
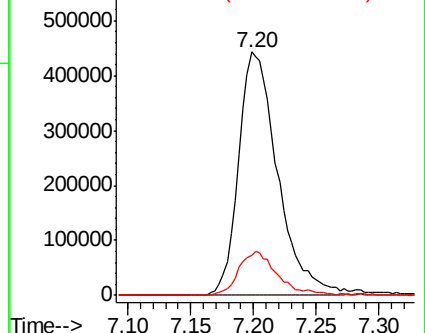


Abundance

Ion 63.10 (62.80 to 63.80): VL0

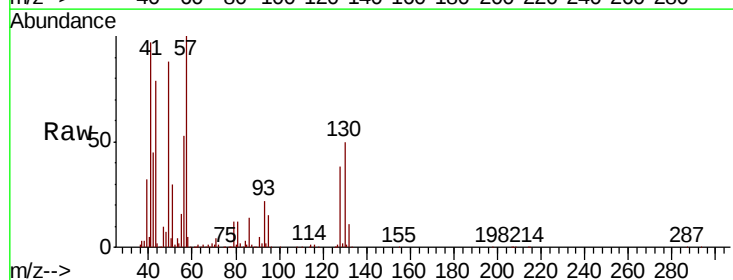
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41
 Tetrahydrofuran
 Concen: 2.067 ppbv
 RT: 5.71 min Scan# 910
 Delta R.T. -0.31 min
 Lab File: VL036413.D
 Acq: 1 Mar 2021 14:03

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	29.3	43.9#
71	12.2	27.8	41.8#

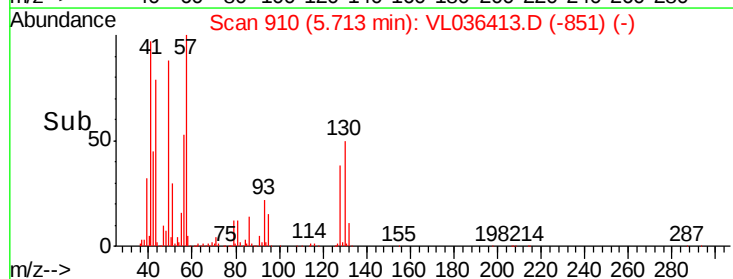
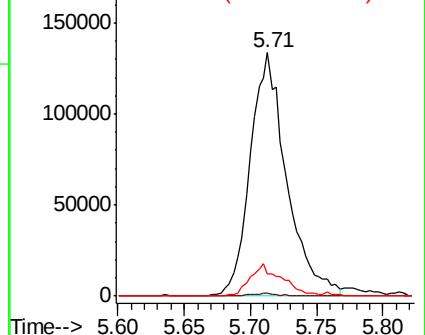


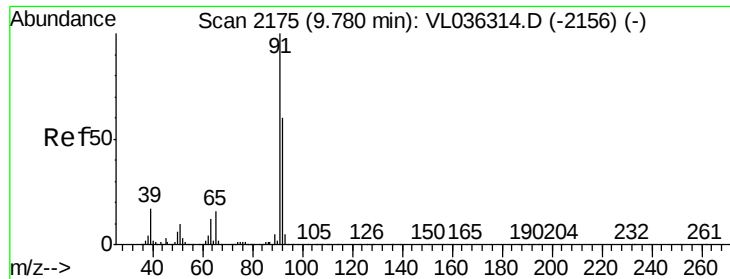
Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.032 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.06 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

Instrument :

MSVOA_L

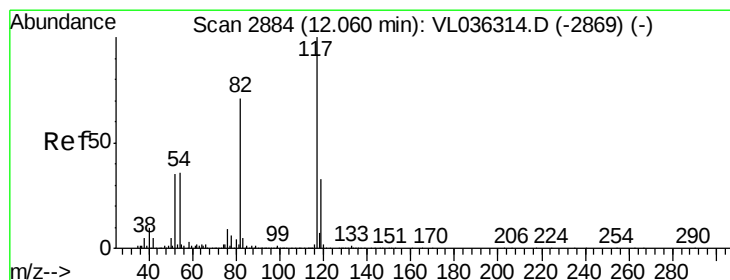
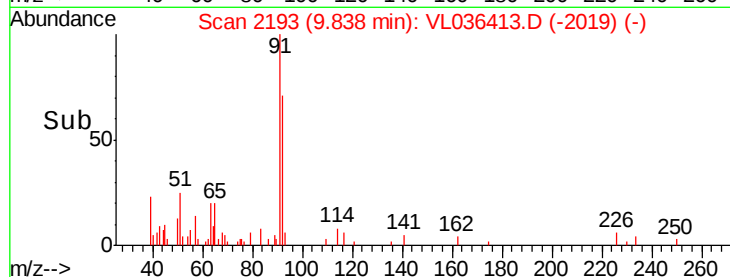
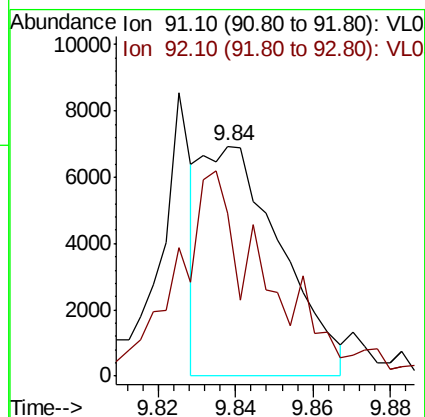
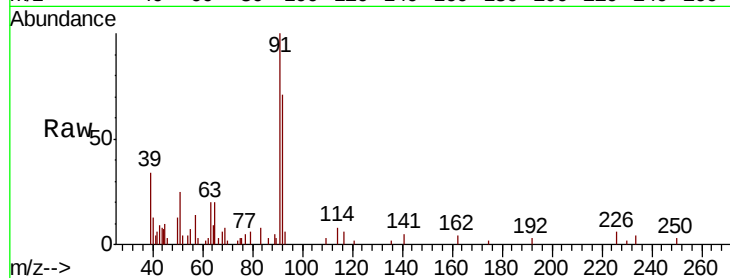
ClientSampleId :

Tot Ion: 91 Resp: 9905

Ion Ratio Lower Upper

91 100

92 108.4 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.06 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

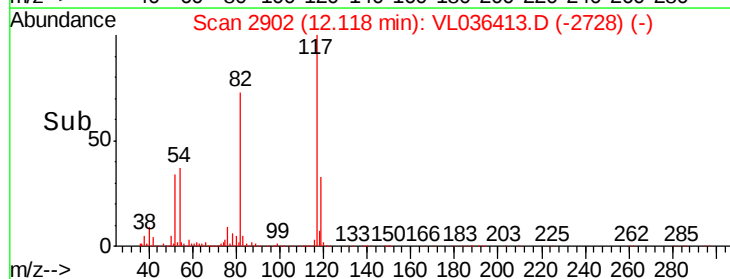
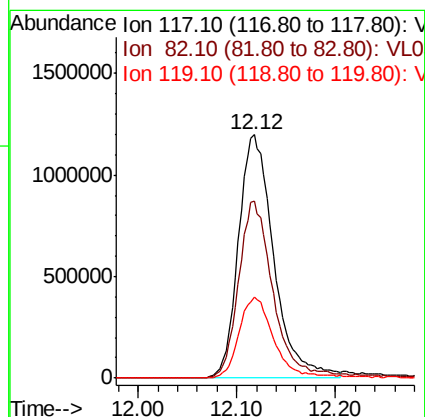
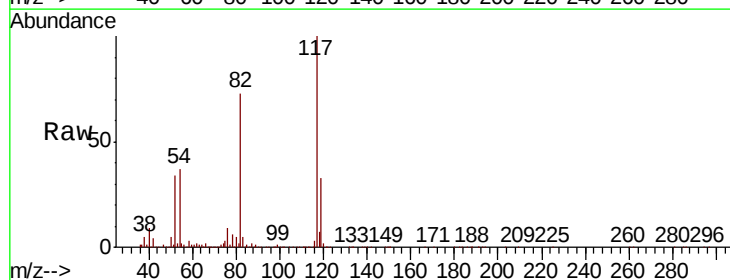
Tgt Ion: 117 Resp: 2976250

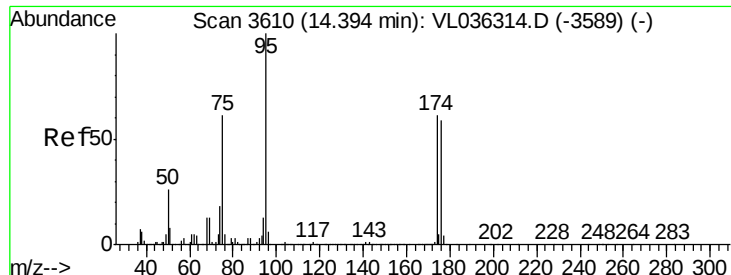
Ion Ratio Lower Upper

117 100

82 72.9 59.1 88.7

119 33.6 46.3 69.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.144 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.05 min

Lab File: VL036413.D

Acq: 1 Mar 2021 14:03

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2239080

Ion Ratio Lower Upper

95 100

174 66.7 49.8 74.6

175 4.8 3.7 5.5

