

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036808.D
 Acq On : 13 Apr 2021 18:15
 Operator : SY/AP
 Sample : M2018-01DUP 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 14 04:41:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1364170	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3375426	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2663924	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1858225	8.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.50%

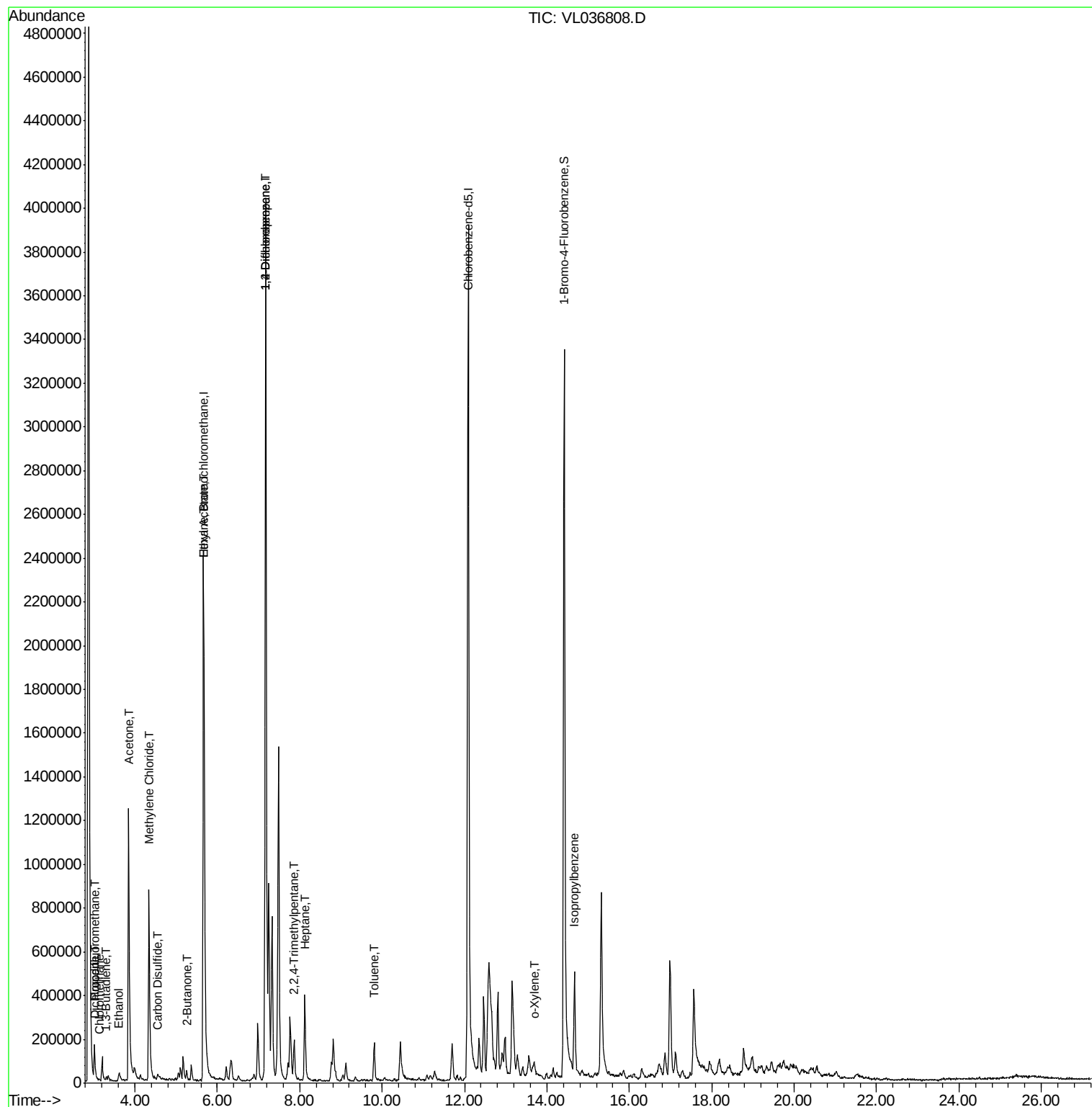
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	8151	0.037	ppbv	96
4) Chloromethane	3.14	50	2933	0.033	ppbv #	85
9) Propene	3.02	41	25035	0.308	ppbv #	49
10) Heptane	8.12	43	150355	0.726	ppbv	91
13) Ethanol	3.61	45	19805	2.047	ppbv #	34
15) Acetone	3.85	43	1579362	11.763	ppbv	95
16) 1,3-Butadiene	3.31	39	3627	0.039	ppbv #	18
20) Methylene Chloride	4.34	84	335906	5.343	ppbv	95
25) Ethyl Acetate	5.68	43	167393	0.524	ppbv #	79
26) Hexane	5.68	57	213106	1.439	ppbv #	46
27) Carbon Disulfide	4.55	76	28117	0.193	ppbv #	83
34) 2-Butanone	5.25	43	14321	0.087	ppbv #	1
39) 1,2-Dichloropropane	7.17	63	870361	6.892	ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	18447	0.034	ppbv #	1
53) Toluene	9.81	91	136938	0.413	ppbv	96
60) o-Xylene	13.70	91	17105	0.052	ppbv	86
62) Isopropylbenzene	14.67	105	400338	0.910	ppbv	99

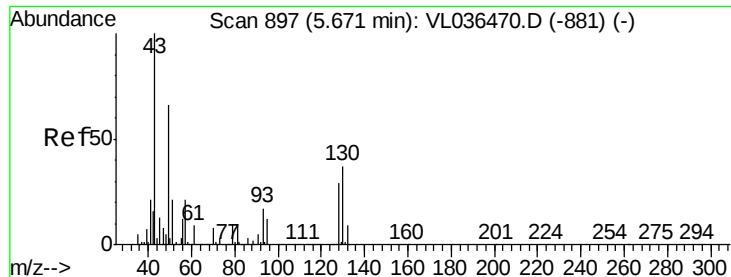
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 18:15

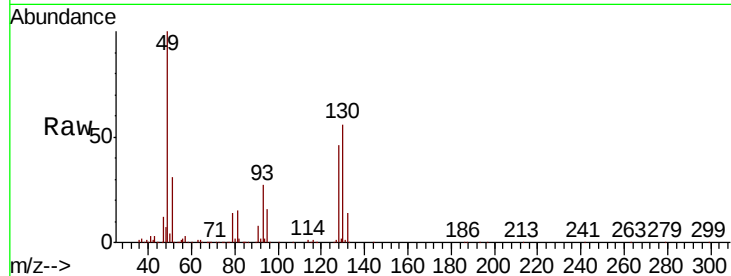
Tot Ion: 49 Resp: 1364170

Ion Ratio Lower Upper

49 100

128 47.2 23.5 70.6

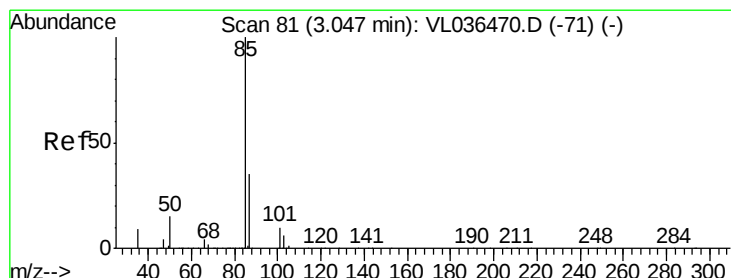
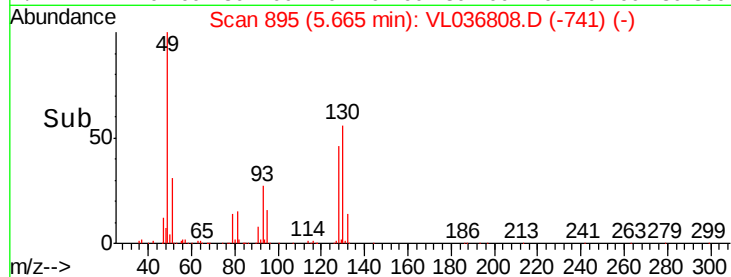
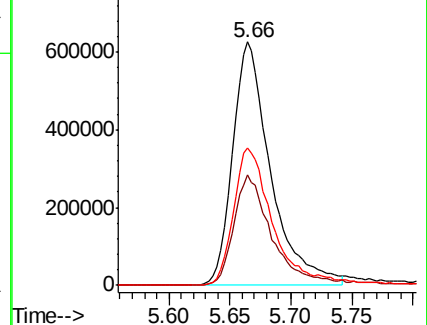
130 59.6 29.1 87.4



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: 0.037 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036808.D

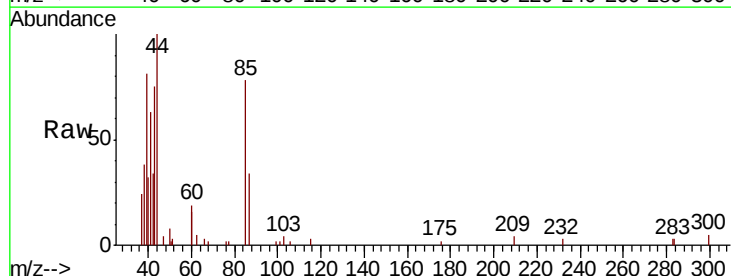
Acq: 13 Apr 2021 18:15

Tgt Ion: 85 Resp: 8151

Ion Ratio Lower Upper

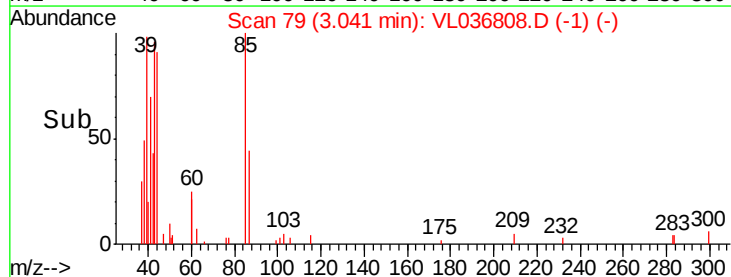
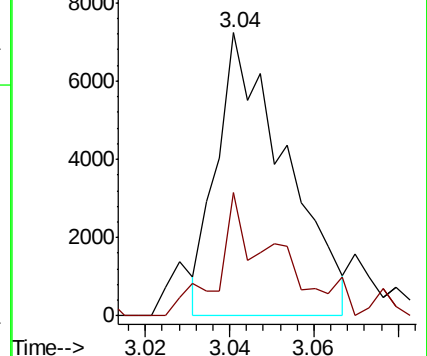
85 100

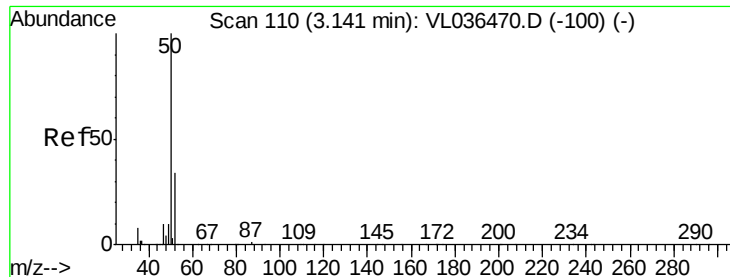
87 37.3 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

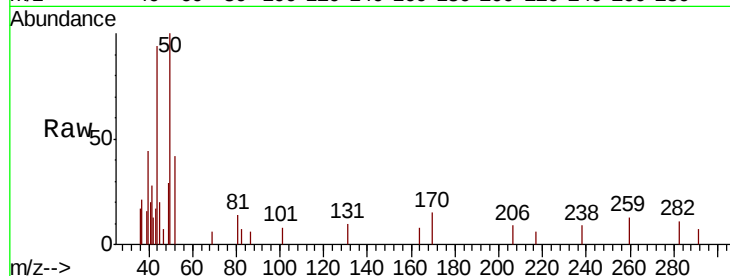
Acq: 13 Apr 2021 18:15

Tot Ion: 50 Resp: 2933

Ion Ratio Lower Upper

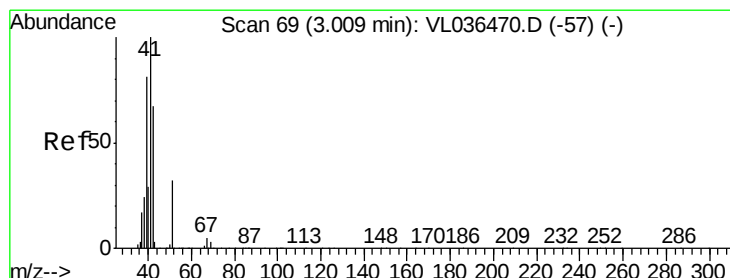
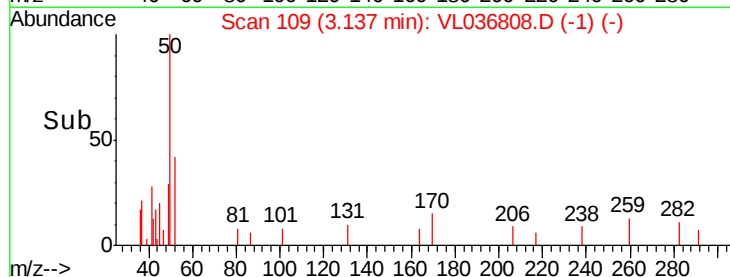
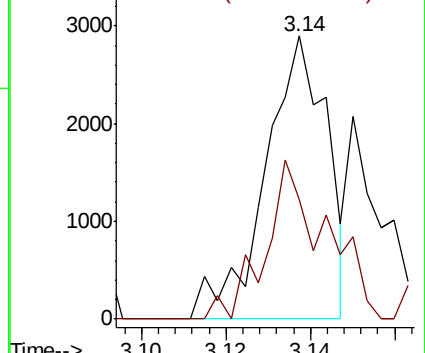
50 100

52 42.3 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.308 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036808.D

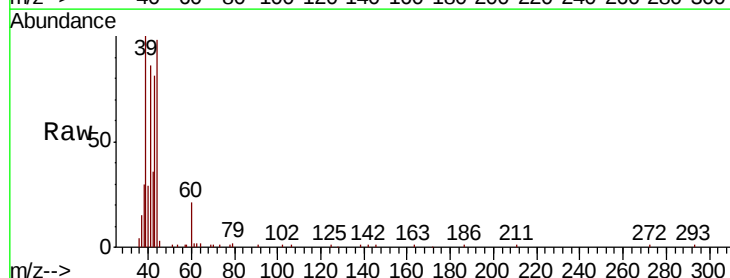
Acq: 13 Apr 2021 18:15

Tgt Ion: 41 Resp: 25035

Ion Ratio Lower Upper

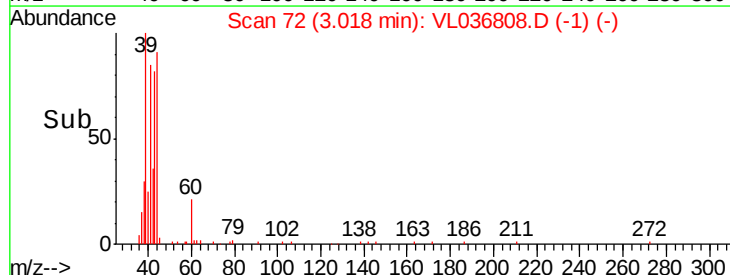
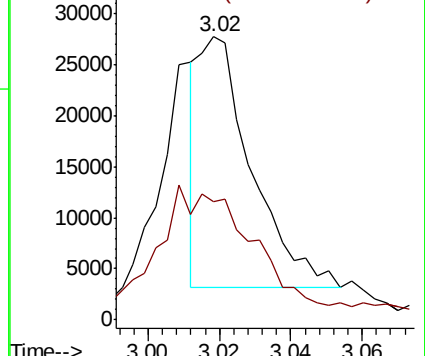
41 100

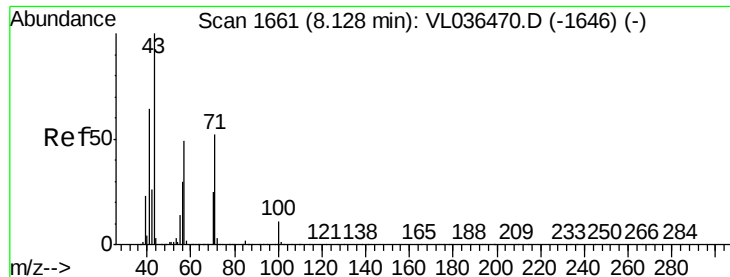
42 113.7 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

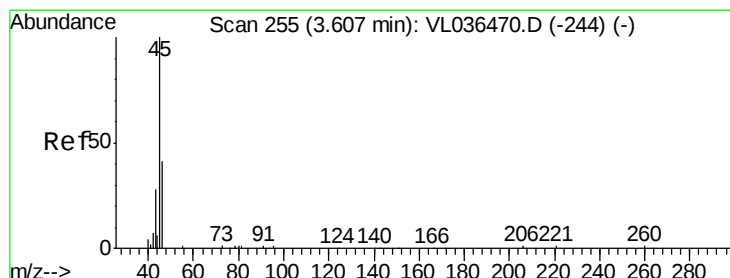
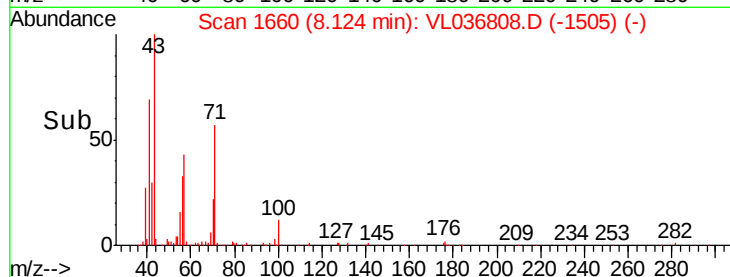
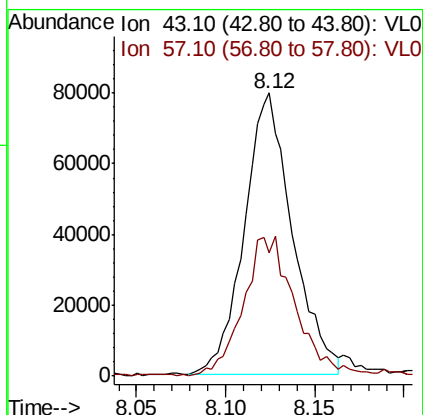
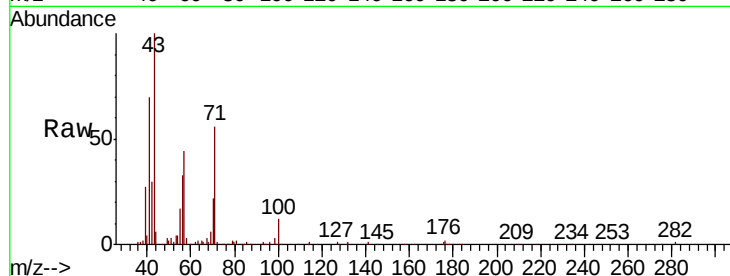
Ion 42.10 (41.80 to 42.80): VL0





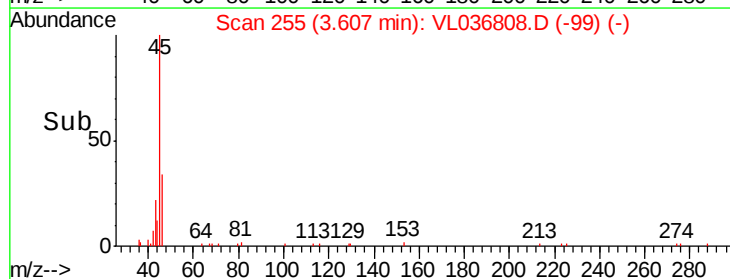
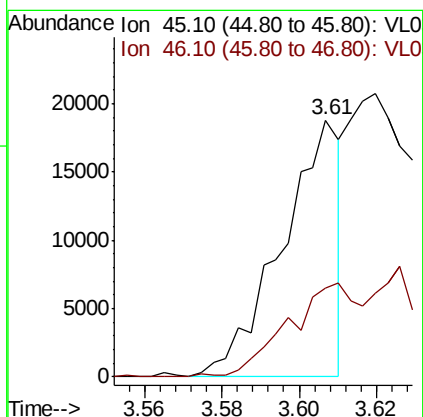
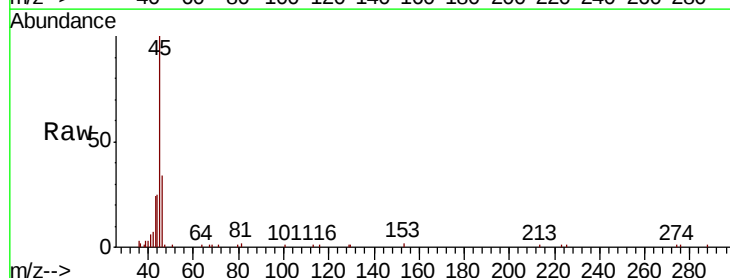
#10
 Heptane
 Concen: 0.726 ppbv
 RT: 8.12
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 18:15

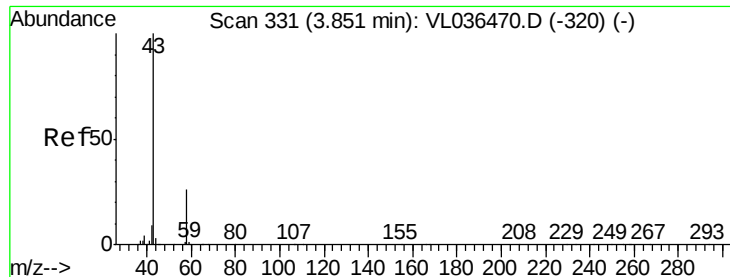
Tot Ion: 43 Resp: 150355
 Ion Ratio Lower Upper
 43 100
 57 54.8 39.0 58.6



#13
 Ethanol
 Concen: 2.047 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T.: 0.00 min
 Lab File: VL036808.D
 Acq: 13 Apr 2021 18:15

Tgt Ion: 45 Resp: 19805
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.6 66.2#





#15

Acetone

Concen: 11.763 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

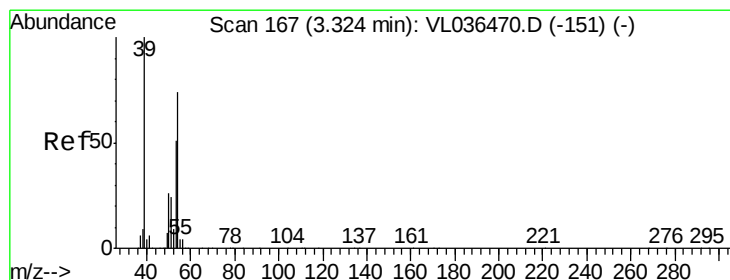
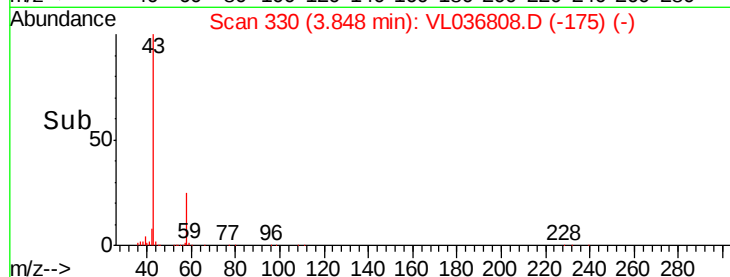
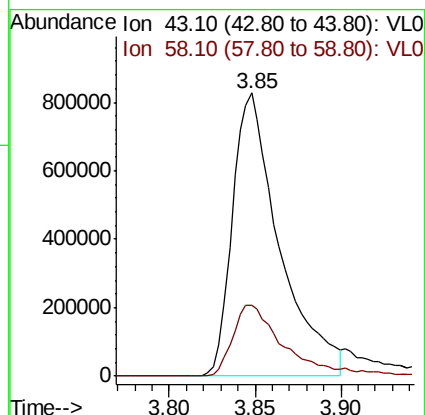
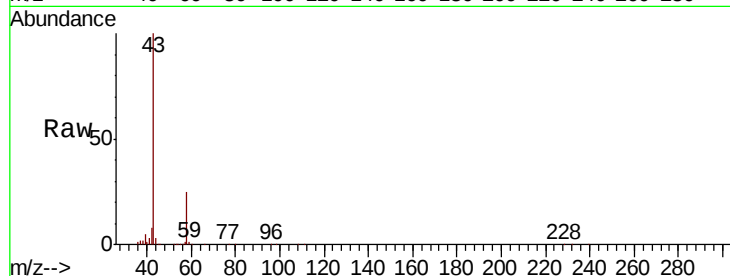
Acq: 13 Apr 2021 18:15

Tot Ion: 43 Resp: 1579362

Ion Ratio Lower Upper

43 100

58 29.3 21.2 31.8



#16

1,3-Butadiene

Concen: 0.039 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL036808.D

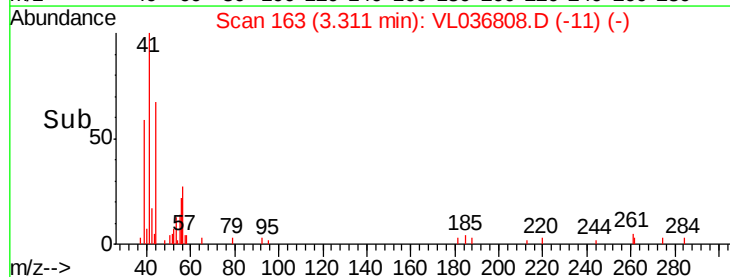
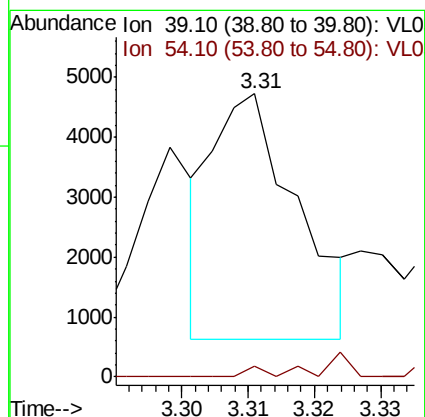
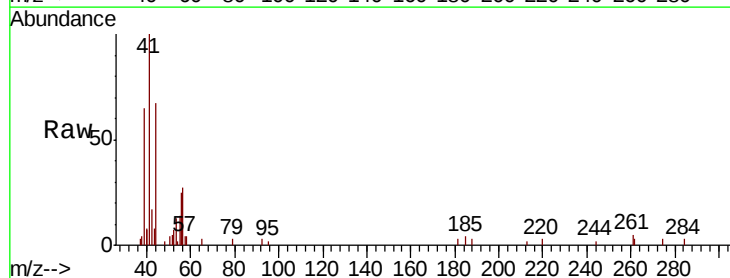
Acq: 13 Apr 2021 18:15

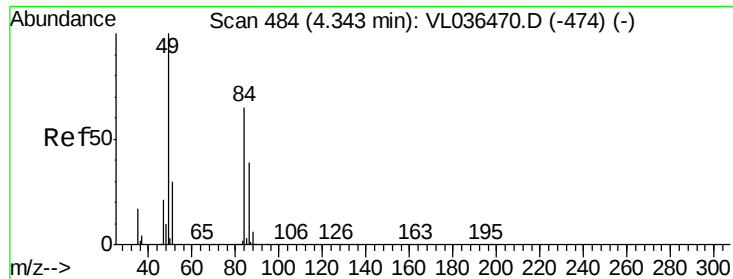
Tgt Ion: 39 Resp: 3627

Ion Ratio Lower Upper

39 100

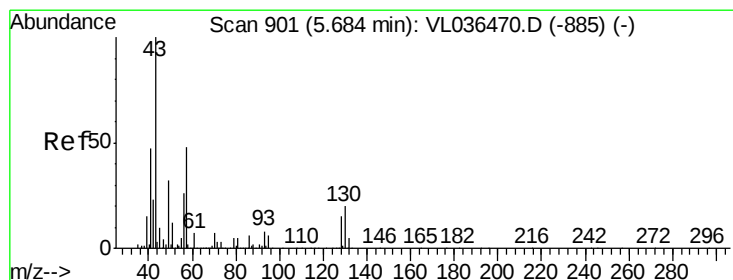
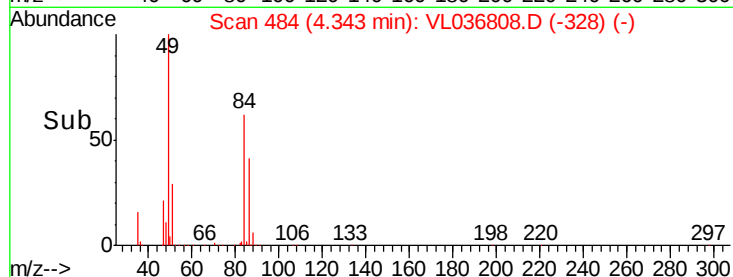
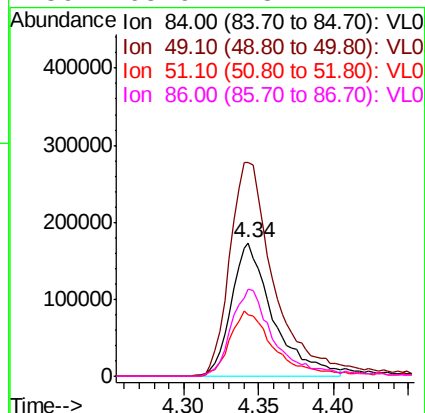
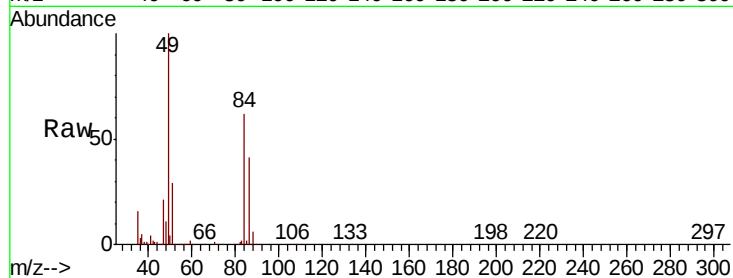
54 4.0 58.8 88.2#





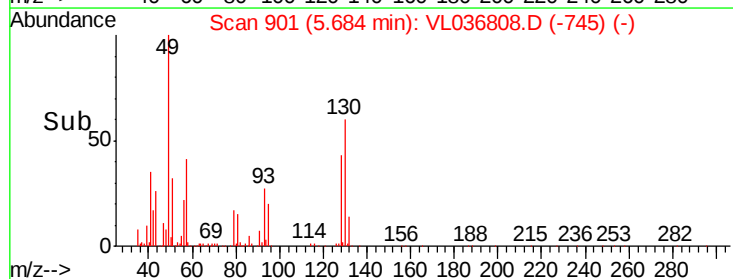
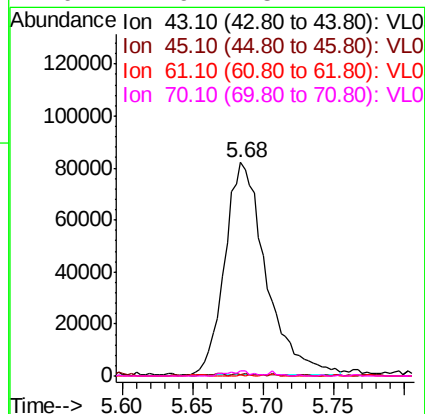
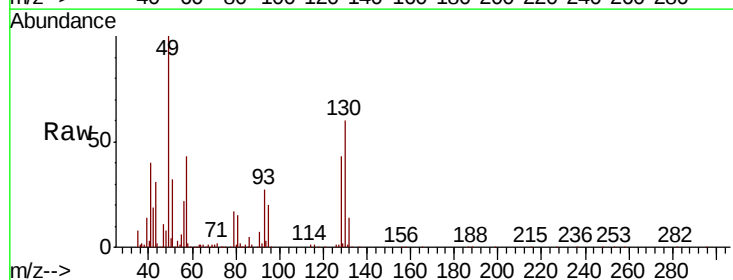
#20
Methvlene Chloride
Concen: 5.343 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 18:15

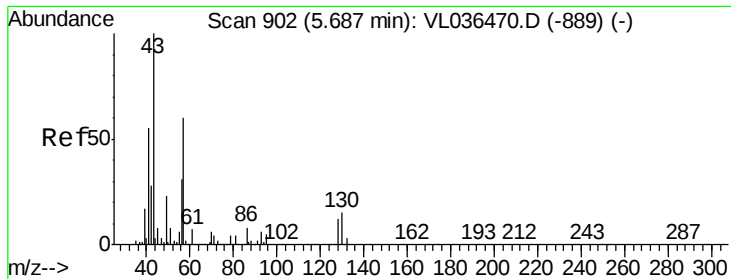
Tot Ion:	84	Resp:	335906
Ion	Ratio	Lower	Upper
84	100		
49	160.0	122.9	184.3
51	46.0	36.9	55.3
86	65.6	48.2	72.4



#25
Ethyl Acetate
Concen: 0.524 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL036808.D
Acq: 13 Apr 2021 18:15

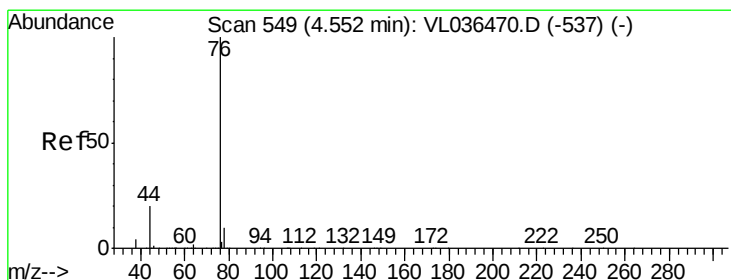
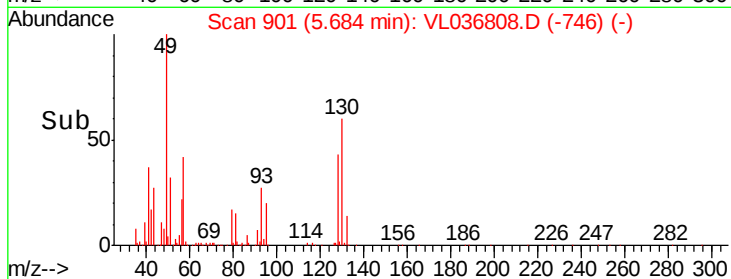
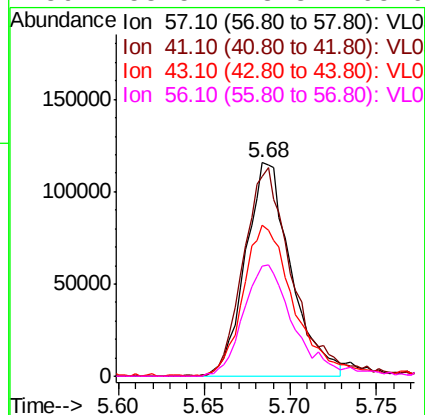
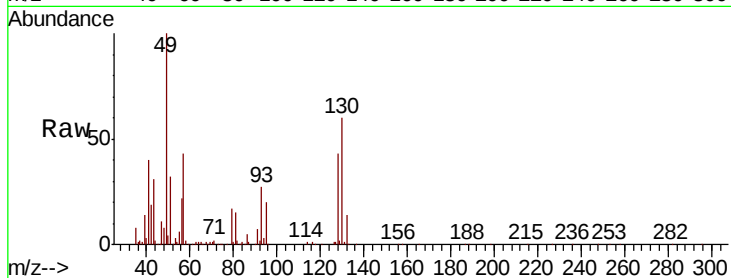
Tgt Ion:	43	Resp:	167393
Ion	Ratio	Lower	Upper
43	100		
45	1.4	7.9	11.9#
61	0.3	7.4	11.2#
70	1.9	5.1	7.7#





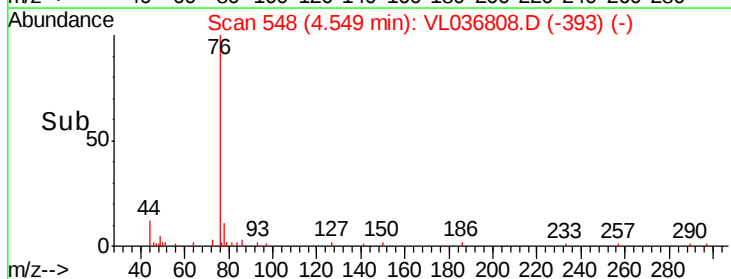
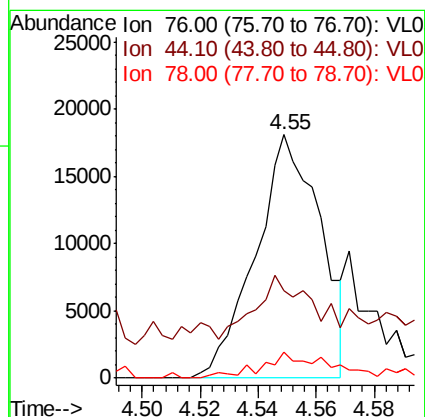
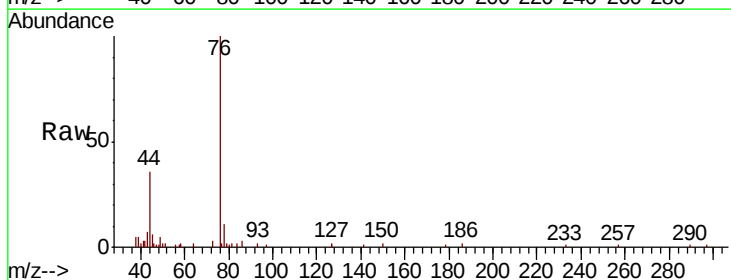
#26
Hexane
Concen: 1.439 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2021 18:15

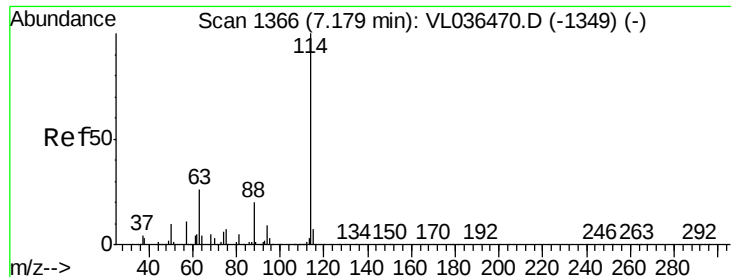
Tot Ion:	57	Resp:	213106
Ion	Ratio	Lower	Upper
57	100		
41	107.6	77.2	115.8
43	80.5	173.8	260.6#
56	58.5	43.8	65.6



#27
Carbon Disulfide
Concen: 0.193 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.00 min
Lab File: VL036808.D
Acq: 13 Apr 2021 18:15

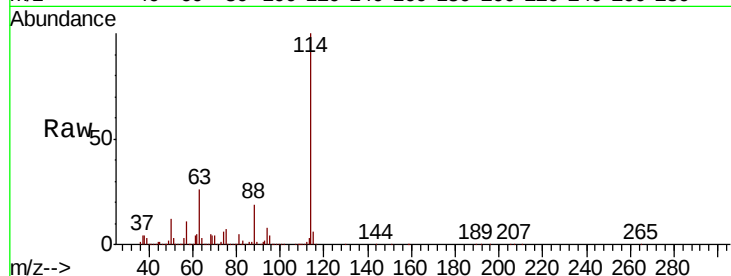
Tgt Ion:	76	Resp:	28117
Ion	Ratio	Lower	Upper
76	100		
44	32.9	17.5	26.3#
78	12.9	8.6	13.0



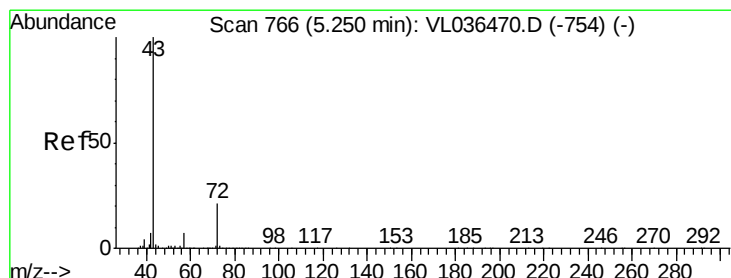
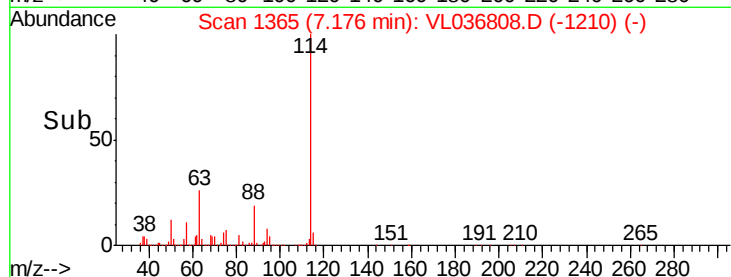
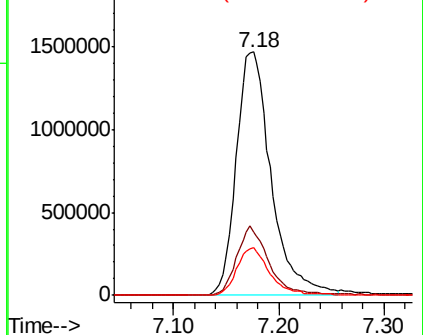


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 18:15

Tot Ion:114 Resp: 3375426
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.4 33.6
 88 18.9 15.4 23.0

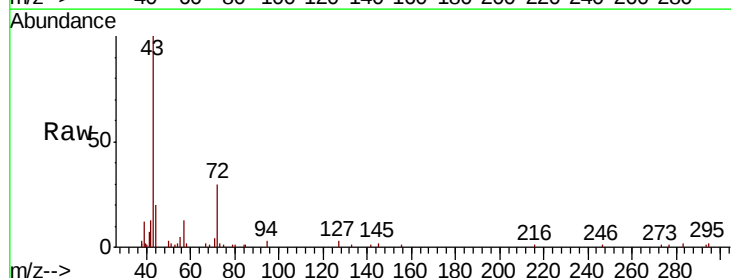


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

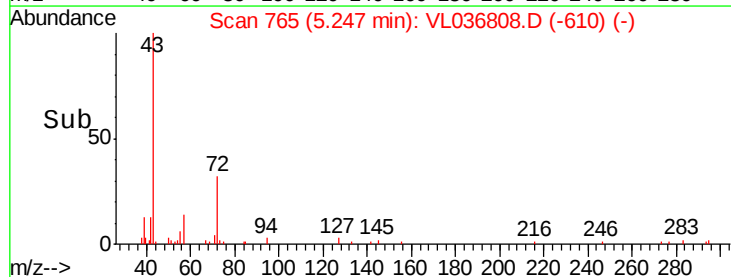
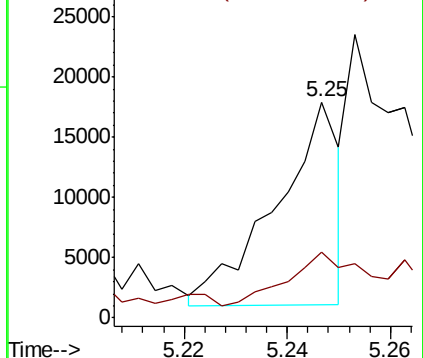


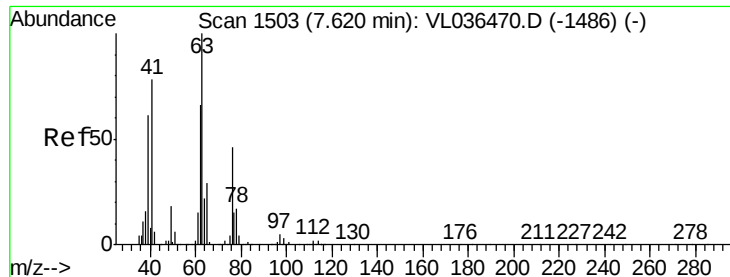
#34
 2-Butanone
 Concen: 0.087 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL036808.D
 Acq: 13 Apr 2021 18:15

Tgt Ion: 43 Resp: 14321
 Ion Ratio Lower Upper
 43 100
 72 86.6 17.0 25.6#



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





#39

1,2-Dichloropropane

Concen: 6.892 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 18:15

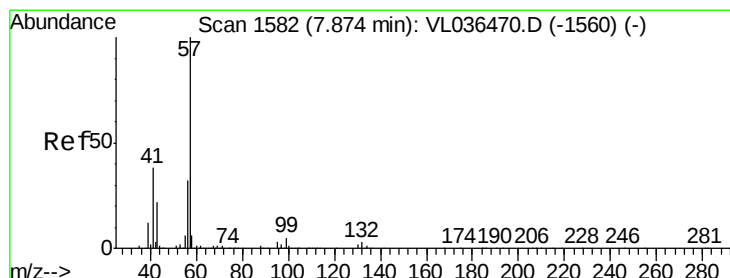
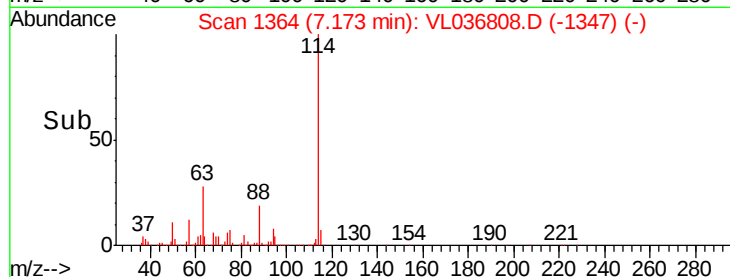
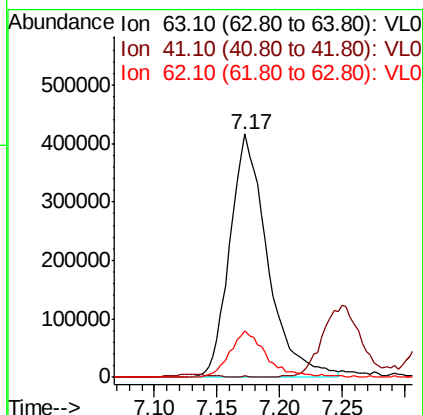
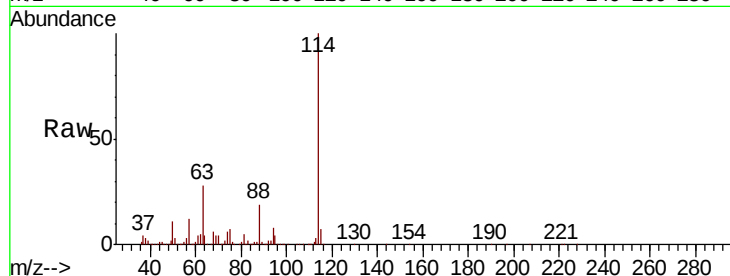
Tot Ion: 63 Resp: 870361

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 19.2 52.8 79.2#



#44

2,2,4-Trimethylpentane

Concen: 0.034 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036808.D

Acq: 13 Apr 2021 18:15

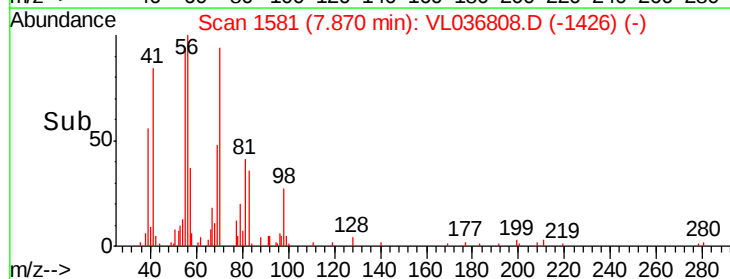
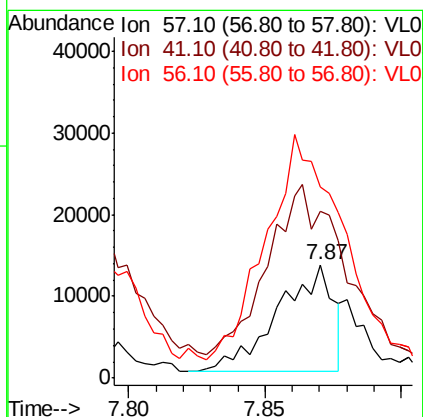
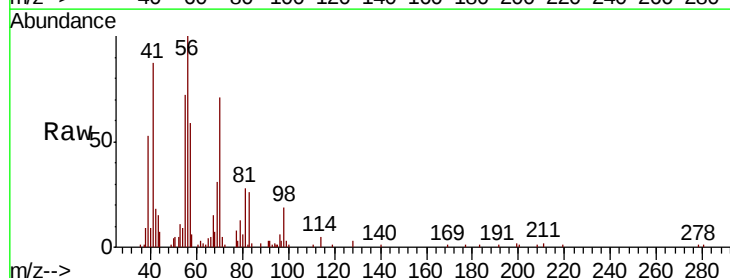
Tgt Ion: 57 Resp: 18447

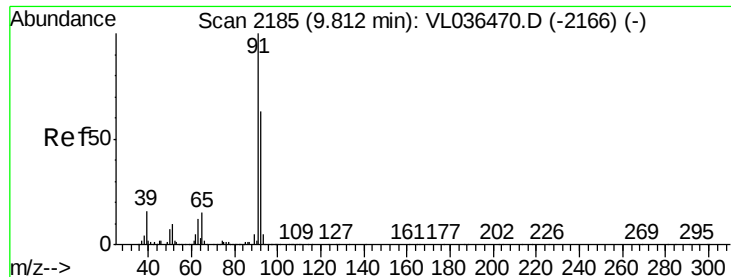
Ion Ratio Lower Upper

57 100

41 276.9 28.8 43.2#

56 352.6 26.1 39.1#





#53

Toluene

Concen: 0.413 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

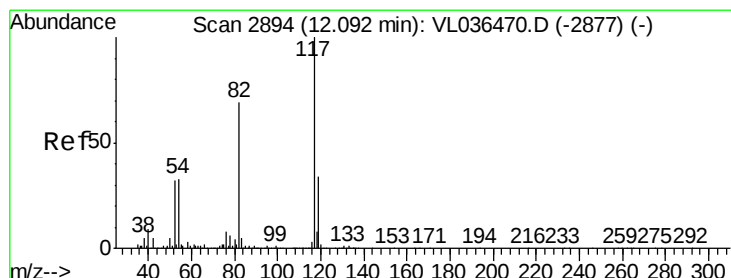
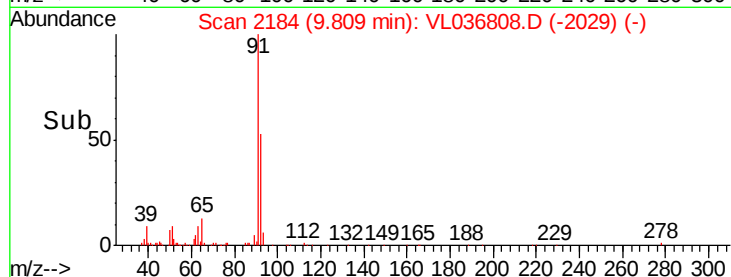
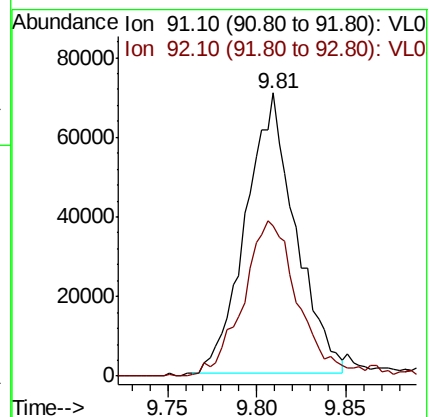
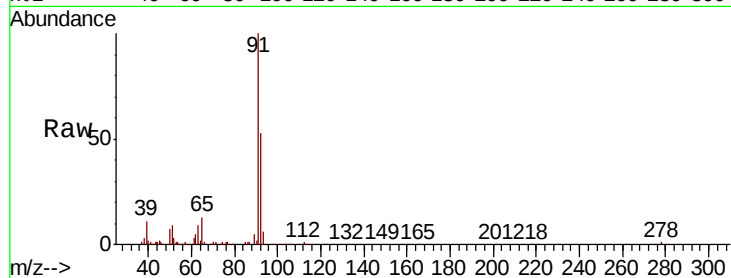
Acq: 13 Apr 2021 18:15

Tot Ion: 91 Resp: 136938

Ion Ratio Lower Upper

91 100

92 64.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036808.D

Acq: 13 Apr 2021 18:15

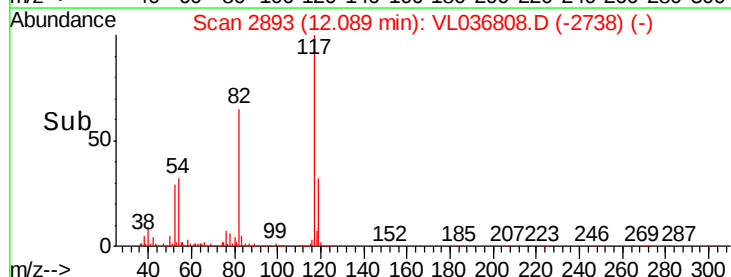
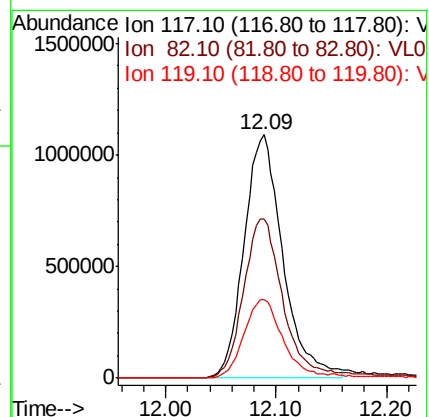
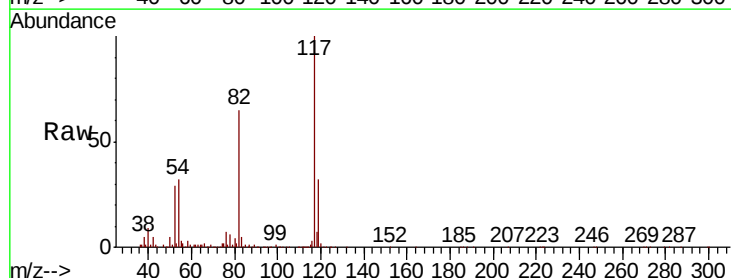
Tgt Ion: 117 Resp: 2663924

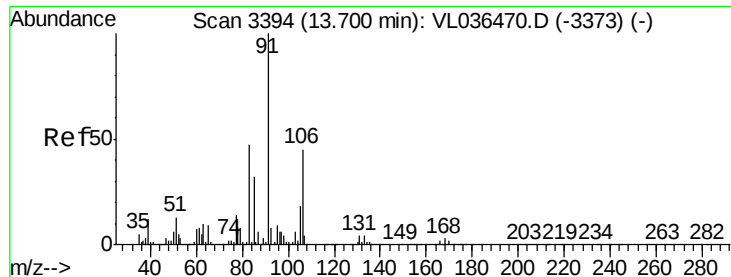
Ion Ratio Lower Upper

117 100

82 68.3 57.4 86.0

119 34.1 47.4 71.0#





#60

o-Xylene

Concen: 0.052 ppbv

RT: 13.70

Delta R.T. MSVOA_L

Lab File:

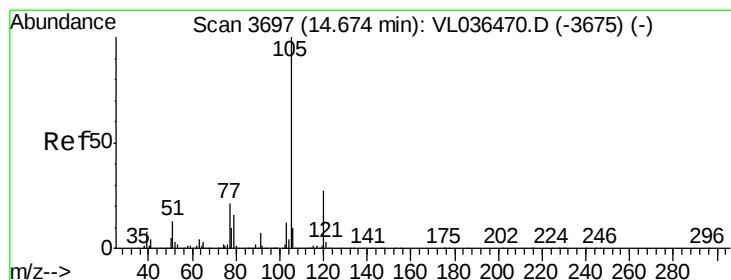
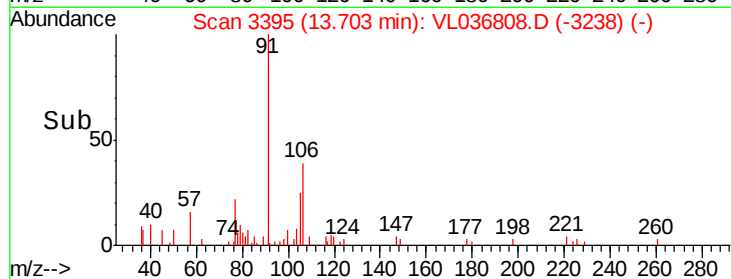
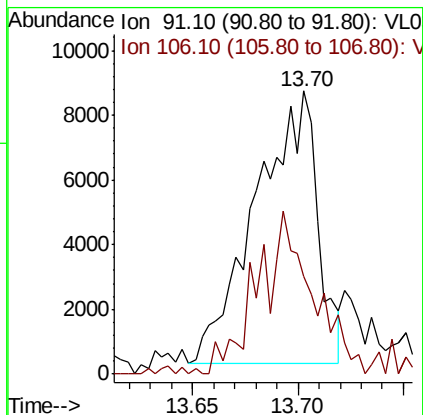
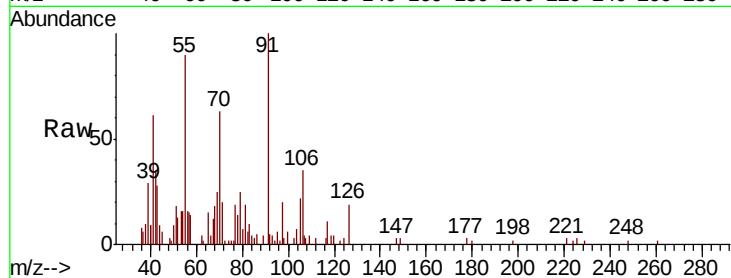
Acq: 13 Apr 2021 18:15

Tot Ion: 91 Resp: 17105

Ion Ratio Lower Upper

91 100

106 53.4 22.3 66.9



#62

Isopropylbenzene

Concen: 0.910 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL036808.D

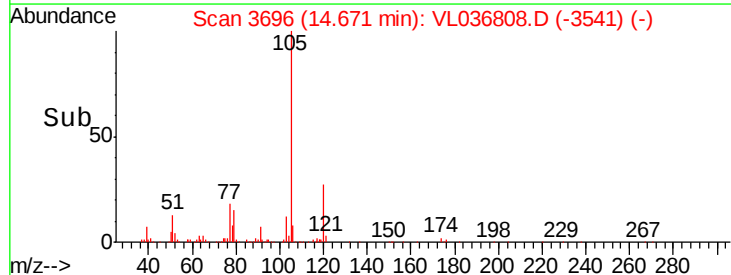
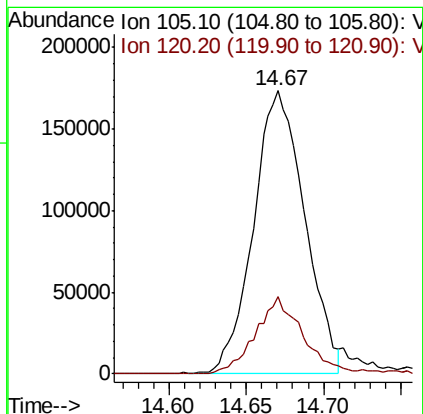
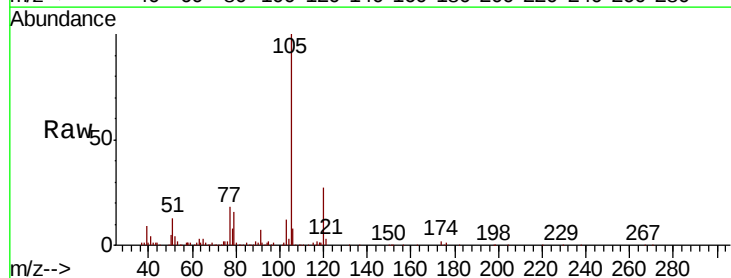
Acq: 13 Apr 2021 18:15

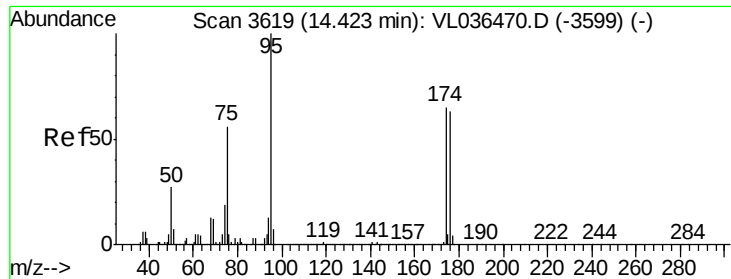
Tgt Ion: 105 Resp: 400338

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0





#68

1-Bromo-4-Fluorobenzene

Concen: 8.752 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 18:15

Tot Ion: 95 Resp: 1858225

Ion Ratio Lower Upper

95 100

174 66.4 51.0 76.6

175 5.0 3.9 5.9

