

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\
 Data File : VL036303.D
 Acq On : 3 Feb 2021 21:13
 Operator : SY/AP
 Sample : M1295-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 01:48:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1523189	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3160998	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	2891023	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2369745	9.90	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

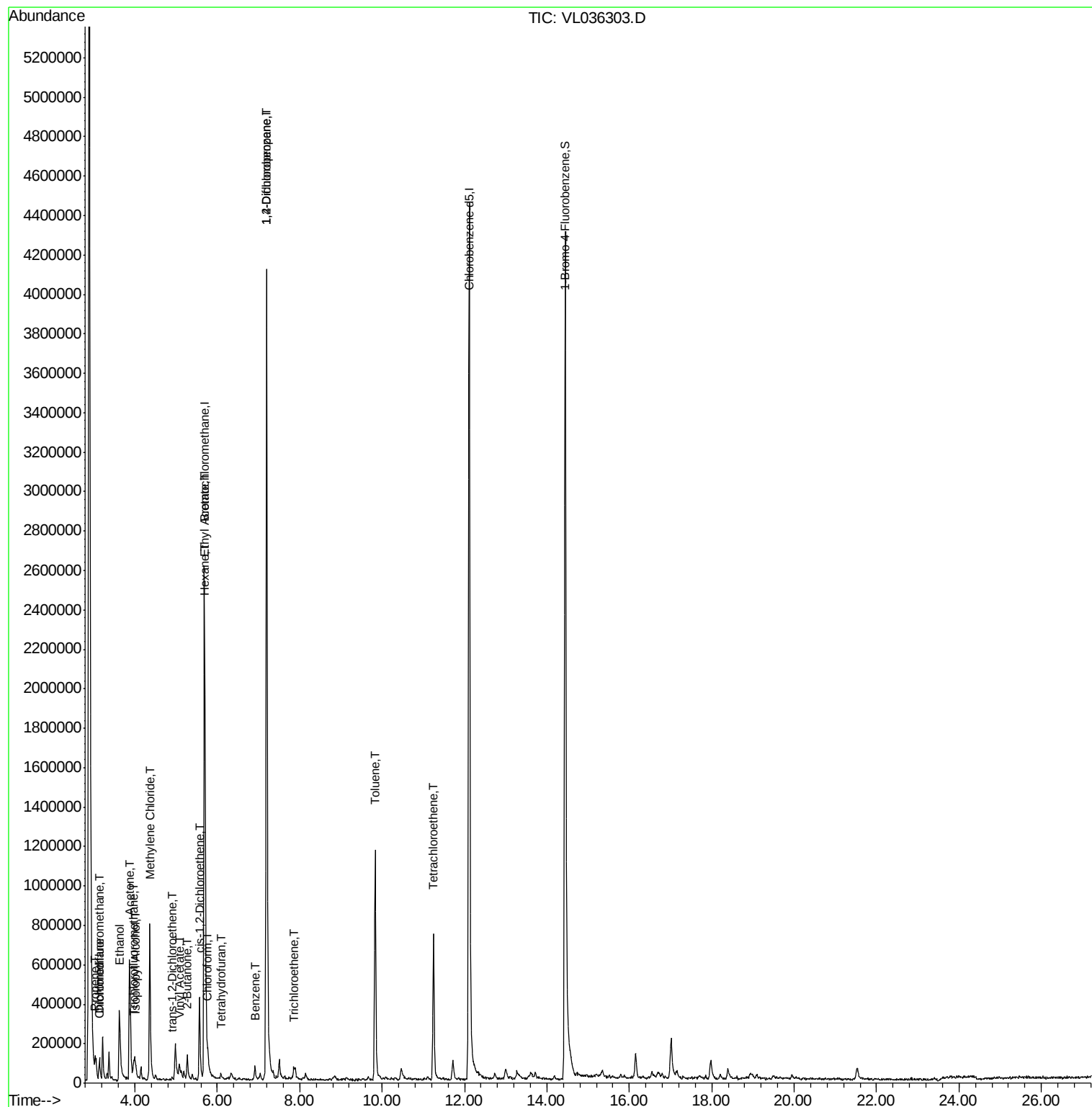
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	6725	0.033	ppbv	89
4) Chloromethane	3.16	50	22679	0.245	ppbv	89
9) Propene	3.03	41	19390	0.218	ppbv #	72
11) Trichlorofluoromethane	3.96	101	57878	0.279	ppbv	90
13) Ethanol	3.62	45	507172	36.258	ppbv	85
15) Acetone	3.87	43	821692	4.405	ppbv	96
19) Isopropyl Alcohol	4.01	45	38771	0.345	ppbv #	93
20) Methylene Chloride	4.36	84	304546	5.115	ppbv	96
22) trans-1,2-Dichloroethene	4.90	96	2637	0.049	ppbv #	54
23) Vinyl Acetate	5.08	43	46272	0.205	ppbv #	49
25) Ethyl Acetate	5.70	43	206183	0.551	ppbv #	86
26) Hexane	5.71	57	228660	1.466	ppbv #	44
29) Chloroform	5.77	83	44680	0.200	ppbv	88
31) cis-1,2-Dichloroethene	5.57	61	275181	1.846	ppbv	98
34) 2-Butanone	5.26	43	64276	0.276	ppbv #	56
36) Benzene	6.92	78	19622	0.068	ppbv	95
38) Trichloroethene	7.85	130	4171	0.039	ppbv #	77
39) 1,2-Dichloropropane	7.20	63	943115	8.020	ppbv #	21
41) Tetrahydrofuran	6.09	42	5234	0.039	ppbv #	1
52) Tetrachloroethene	11.25	164	168921	1.583	ppbv	96
53) Toluene	9.83	91	926897	2.861	ppbv	99

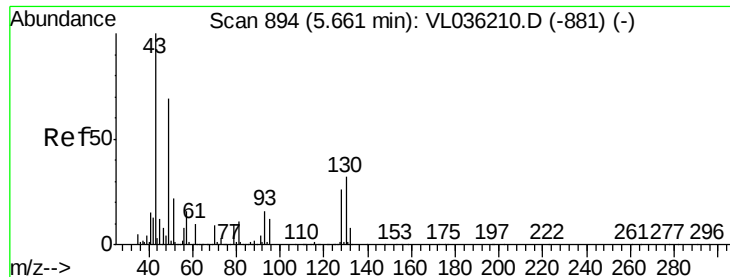
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Instrument :
MSVOA_L
ClientSampleId :

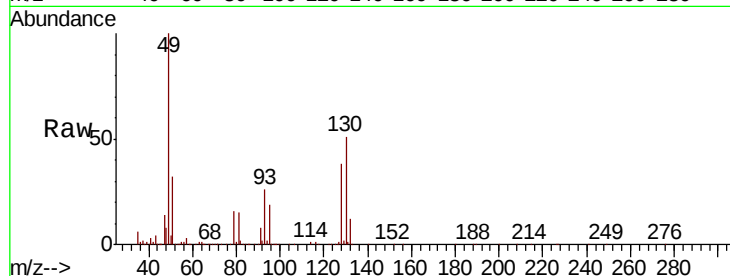
Tot Ion: 49 Resp: 1523189

Ion Ratio Lower Upper

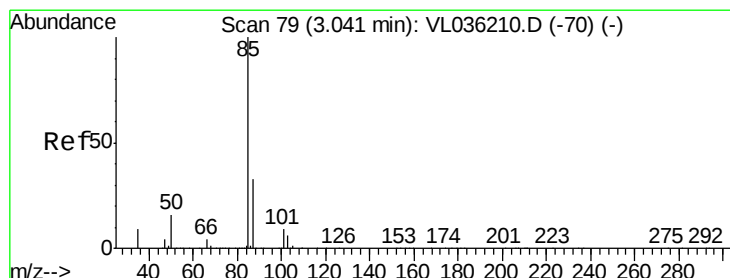
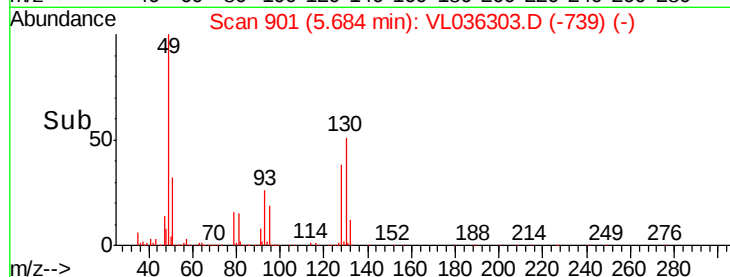
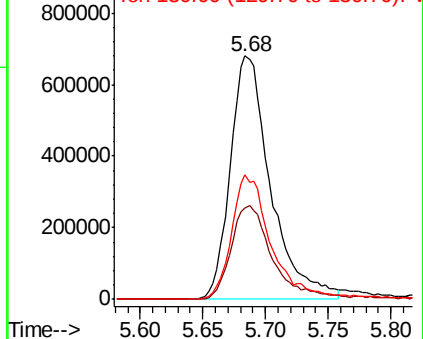
49 100

128 40.0 20.1 60.2

130 51.9 25.3 75.9



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: 0.033 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.10 min

Lab File: VL036303.D

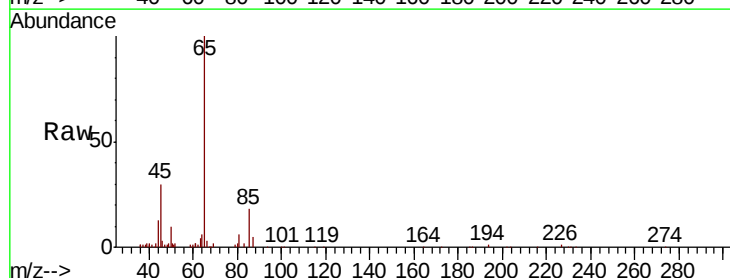
Acq: 3 Feb 2021 21:13

Tgt Ion: 85 Resp: 6725

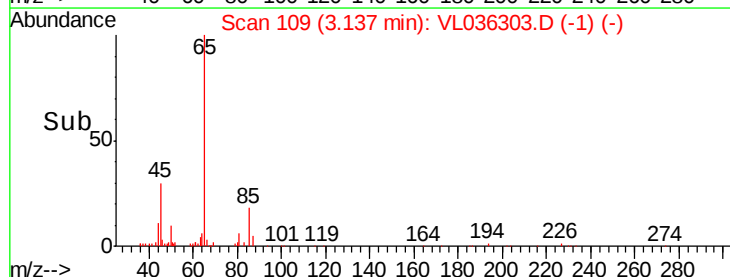
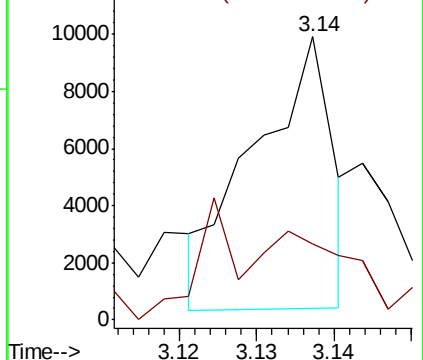
Ion Ratio Lower Upper

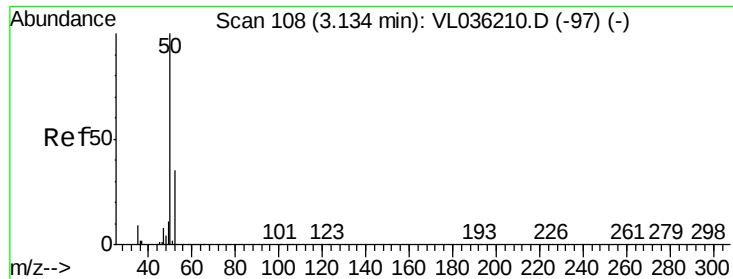
85 100

87 26.6 26.4 39.6



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

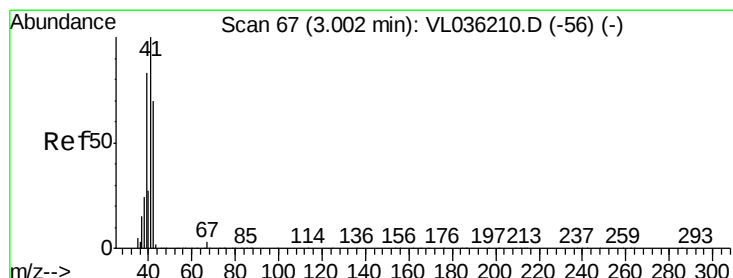
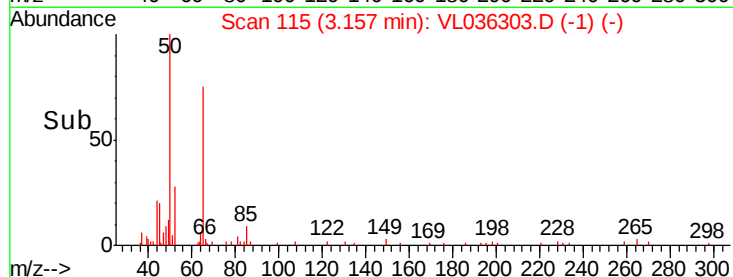
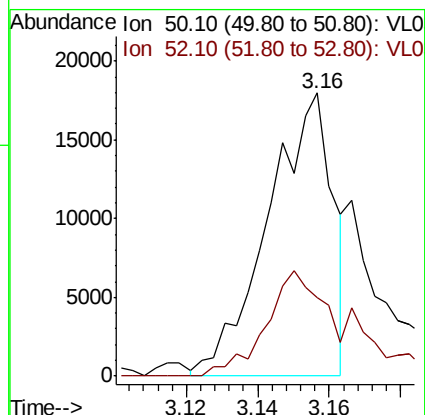
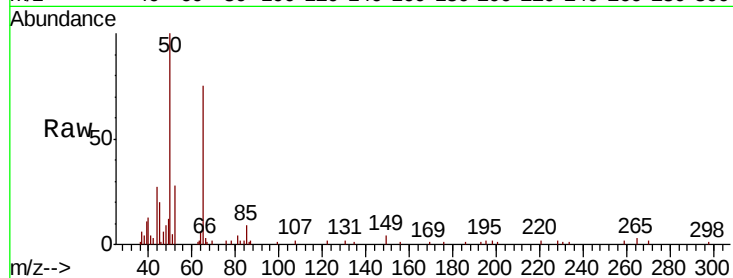




#4
Chloromethane
Concen: 0.245 ppbv
RT: 3.16 min Scan# 115
Delta R.T. 0.02 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

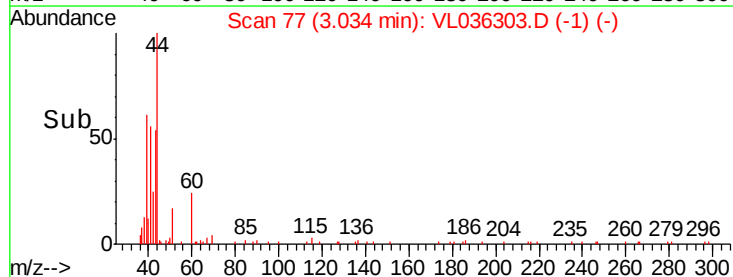
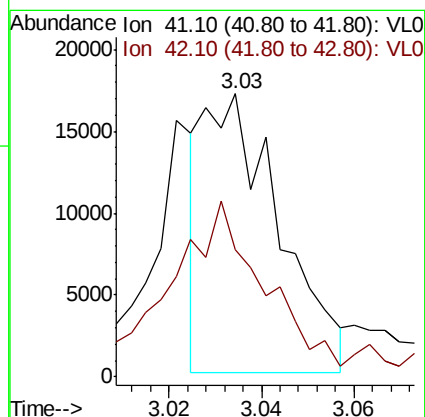
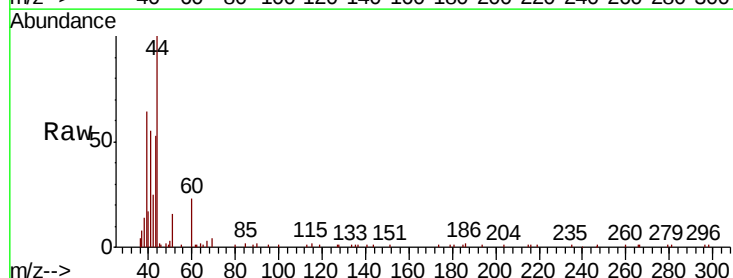
Instrument :
MSVOA_L
ClientSampleId :

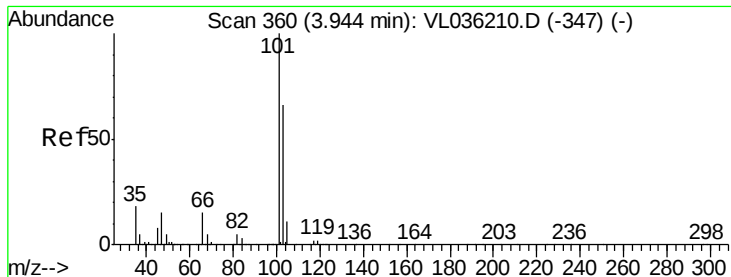
Tot Ion: 50 Resp: 22679
Ion Ratio Lower Upper
50 100
52 28.6 27.8 41.8



#9
Propene
Concen: 0.218 ppbv
RT: 3.03 min Scan# 77
Delta R.T. 0.03 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Tgt Ion: 41 Resp: 19390
Ion Ratio Lower Upper
41 100
42 94.5 57.1 85.7#

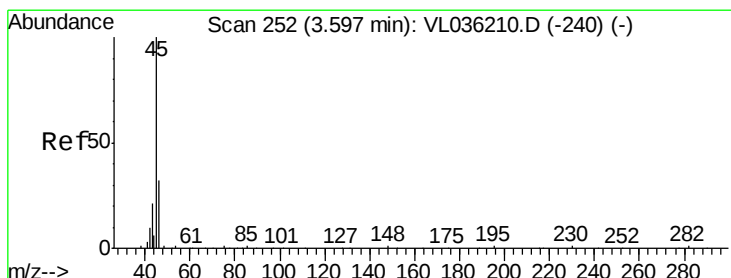
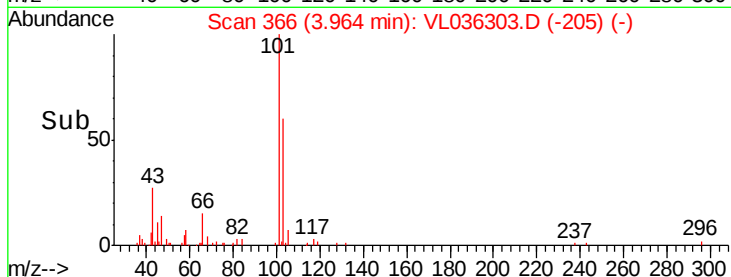
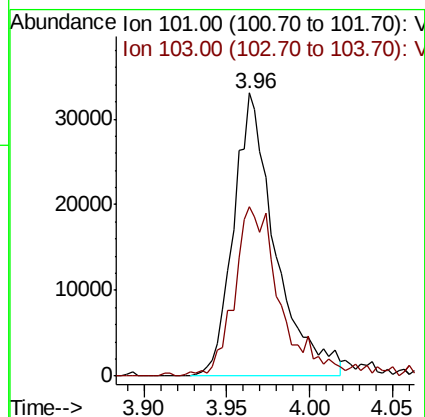
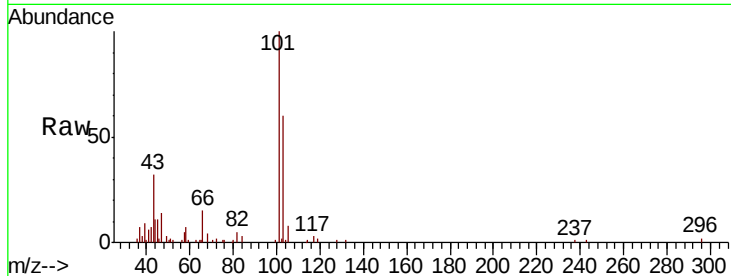




#11
 Trichlorofluoromethane
 Concen: 0.279 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VL036303.D
 Acq: 3 Feb 2021 21:13

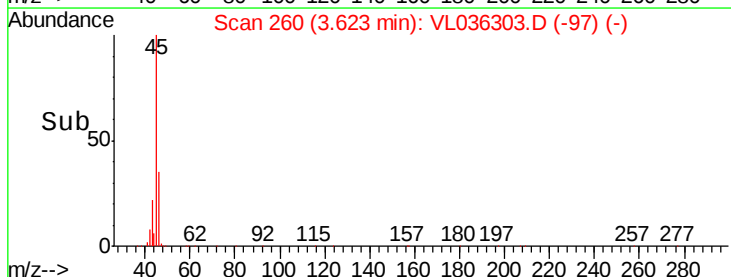
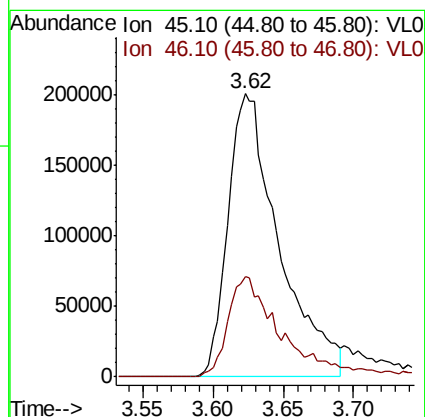
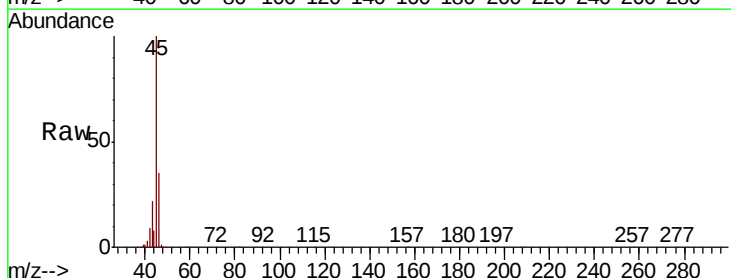
Instrument :
 MSVOA_L
 ClientSampleId :

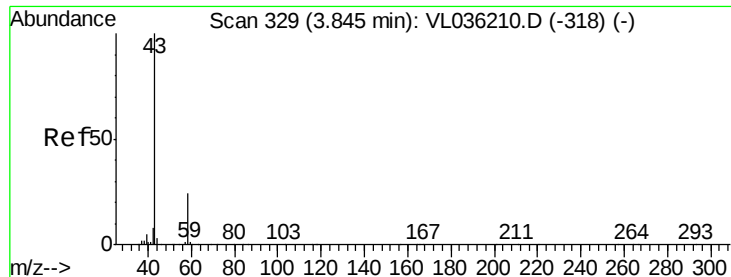
Tot Ion:101 Resp: 57878
 Ion Ratio Lower Upper
 101 100
 103 58.0 52.6 78.8



#13
 Ethanol
 Concen: 36.258 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.03 min
 Lab File: VL036303.D
 Acq: 3 Feb 2021 21:13

Tgt Ion: 45 Resp: 507172
 Ion Ratio Lower Upper
 45 100
 46 37.8 19.2 77.0

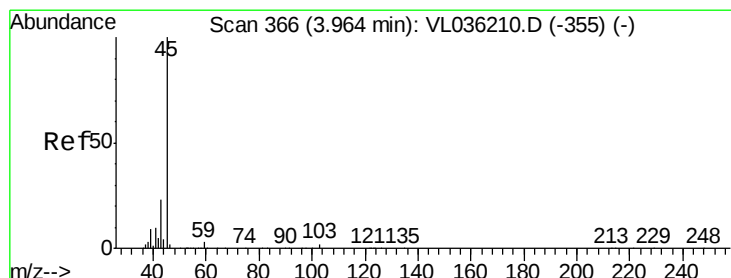
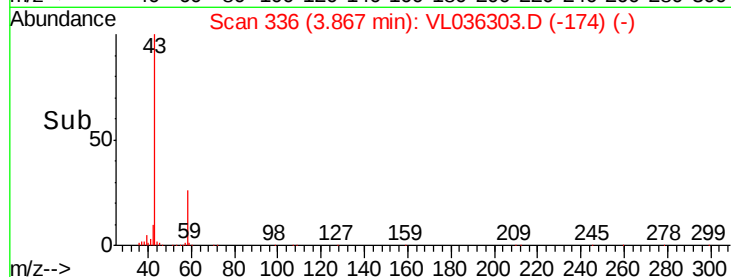
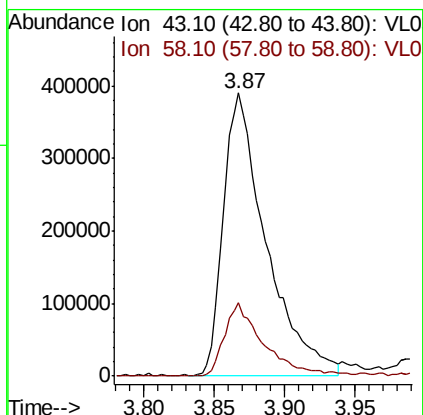
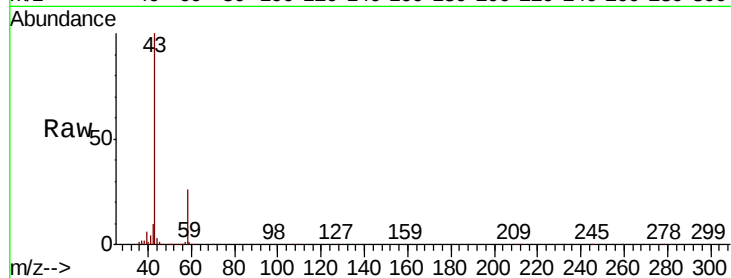




#15
Acetone
Concen: 4.405 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

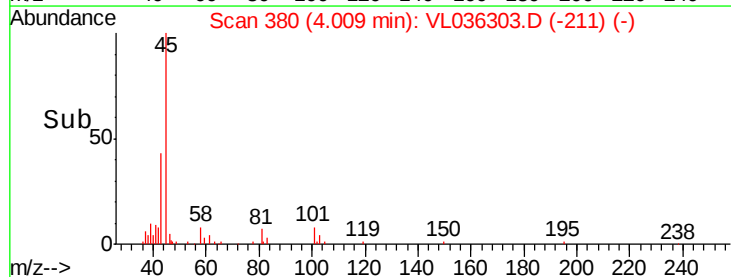
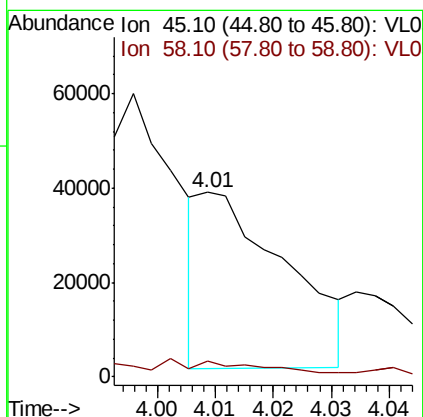
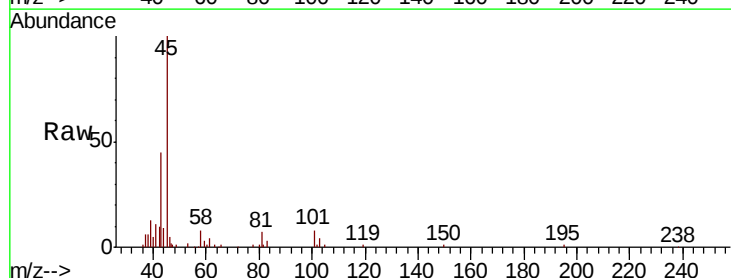
Instrument :
MSVOA_L
ClientSampleId :

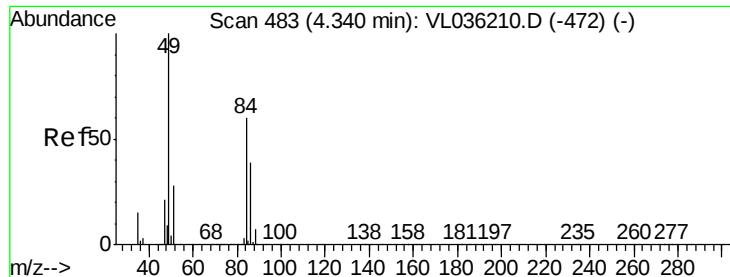
Tot Ion: 43 Resp: 821692
Ion Ratio Lower Upper
43 100
58 23.9 20.9 31.3



#19
Isopropyl Alcohol
Concen: 0.345 ppbv
RT: 4.01 min Scan# 380
Delta R.T. 0.04 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Tgt Ion: 45 Resp: 38771
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#

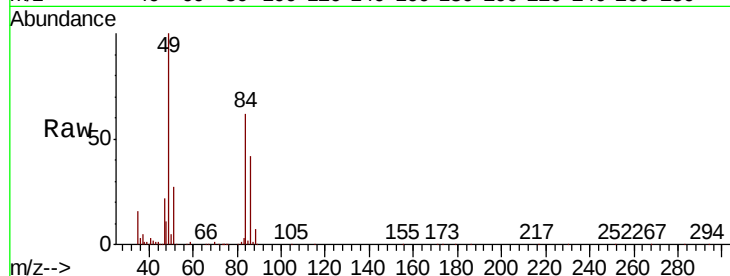




#20
Methvlene Chloride
Concen: 5.115 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	304546
Ion	Ratio	Lower	Upper
84	100		
49	162.1	134.1	201.1
51	44.3	37.4	56.0
86	67.6	52.6	78.8



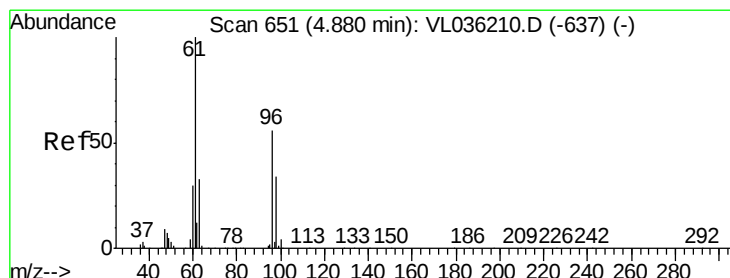
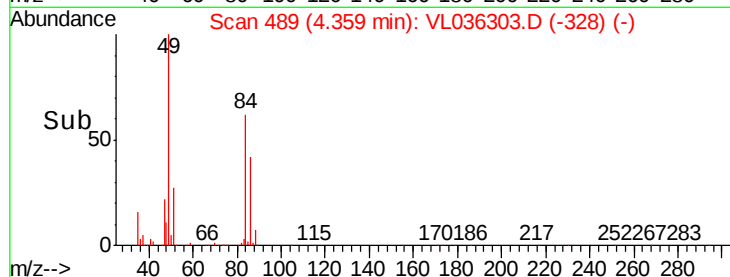
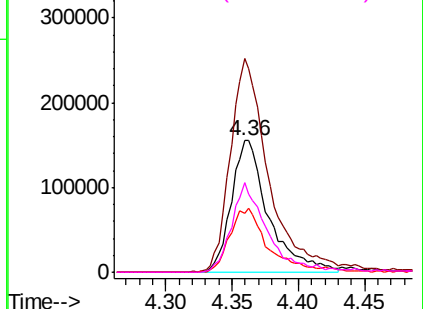
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

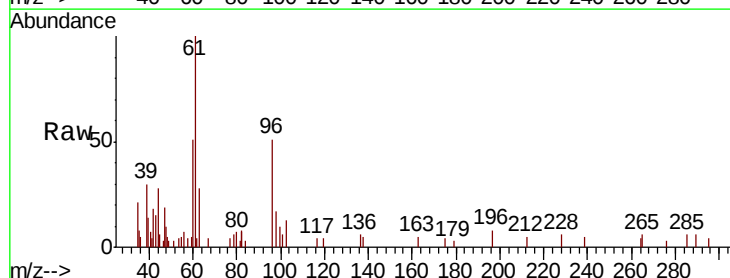
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22
trans-1,2-Dichloroethene
Concen: 0.049 ppbv
RT: 4.90 min Scan# 658
Delta R.T. 0.02 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Tgt Ion:	96	Resp:	2637
Ion	Ratio	Lower	Upper
96	100		
61	127.0	142.7	214.1#
98	3.8	48.7	73.1#

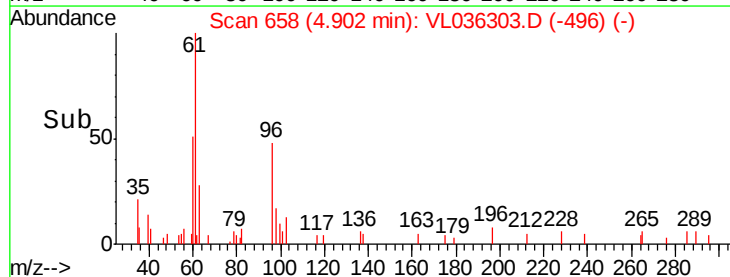
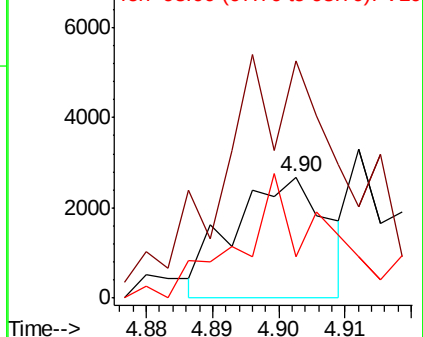


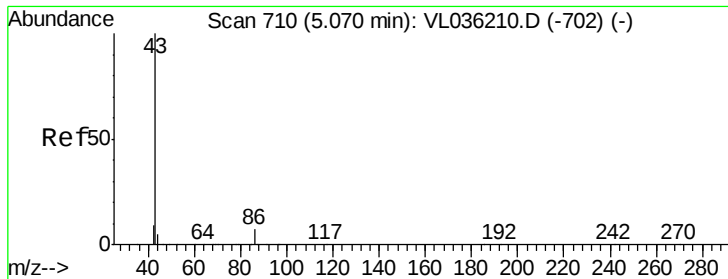
Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.205 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.01 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 46272

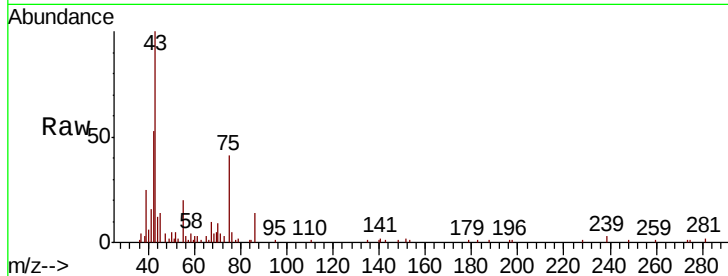
Ion Ratio Lower Upper

43 100

86 14.1 4.9 7.3#

42 42.2 7.8 11.6#

44 7.0 3.7 5.5#

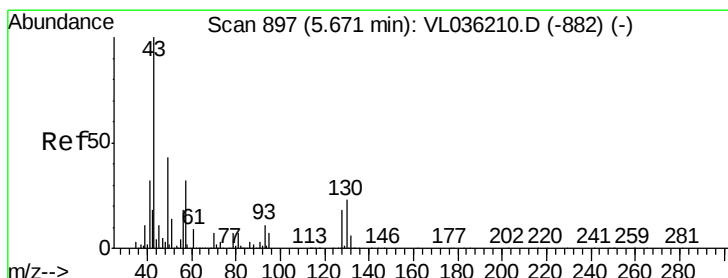
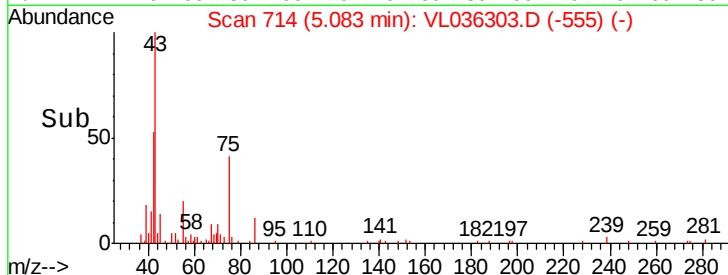
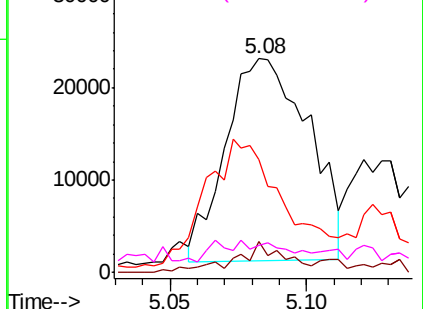


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.551 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Tgt Ion: 43 Resp: 206183

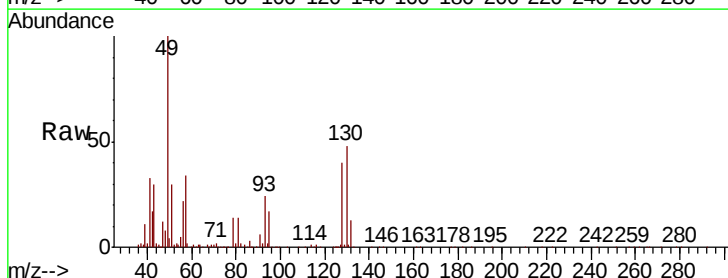
Ion Ratio Lower Upper

43 100

45 3.9 8.3 12.5#

61 4.9 7.4 11.2#

70 2.8 5.5 8.3#

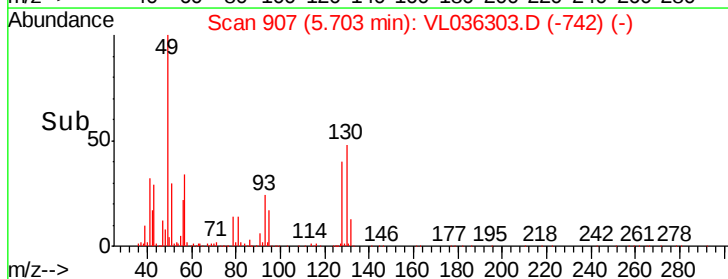
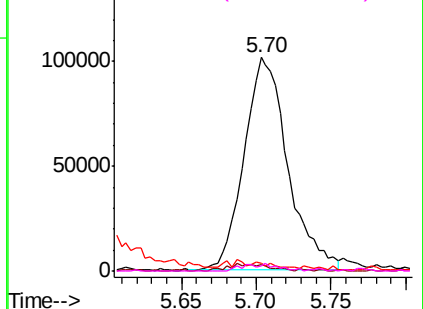


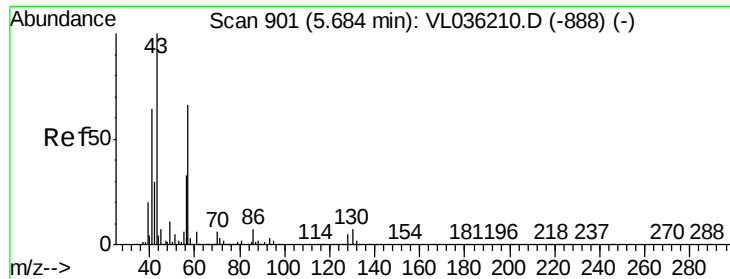
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.466 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.02 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 228660

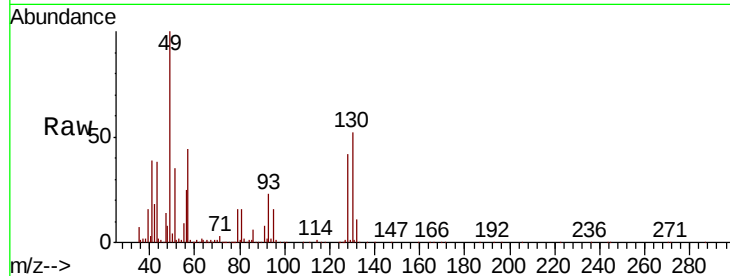
Ion Ratio Lower Upper

57 100

41 103.3 83.0 124.6

43 95.7 202.4 303.6#

56 59.5 43.4 65.0

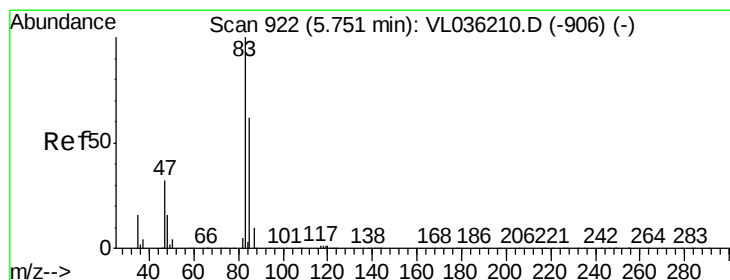
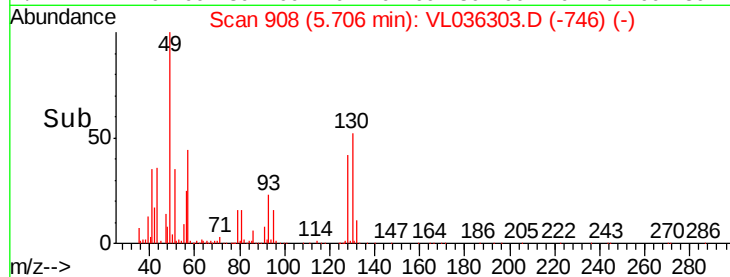
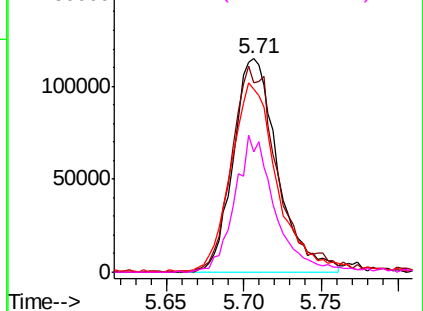


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.200 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.02 min

Lab File: VL036303.D

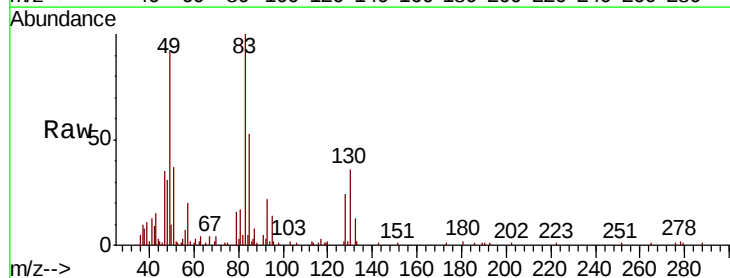
Acq: 3 Feb 2021 21:13

Tgt Ion: 83 Resp: 44680

Ion Ratio Lower Upper

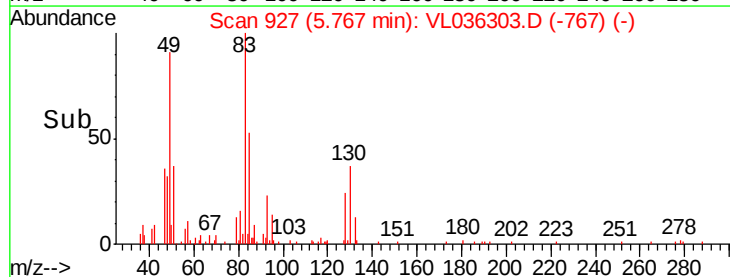
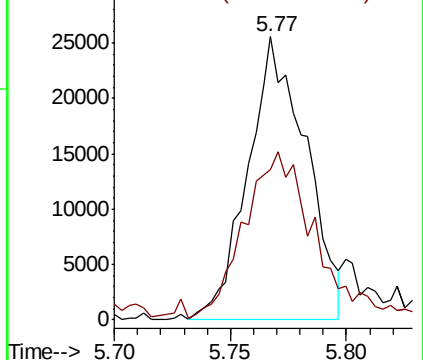
83 100

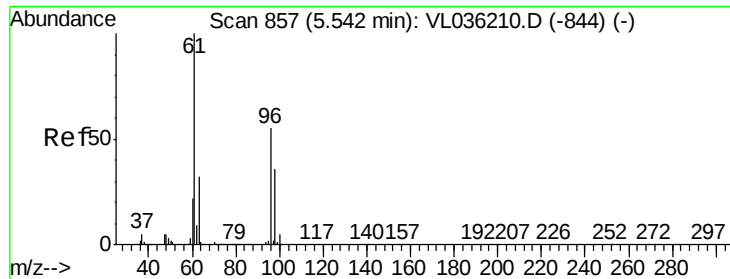
85 52.2 49.3 73.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

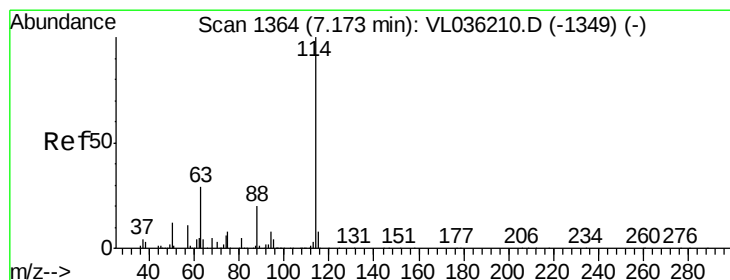
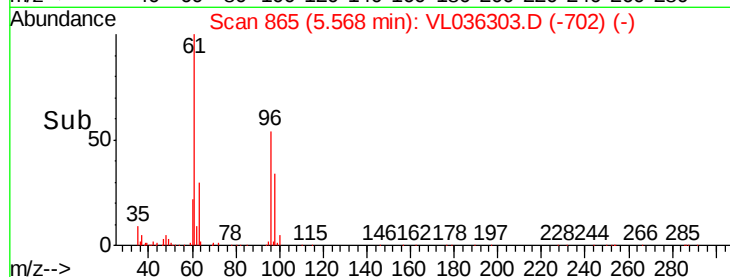
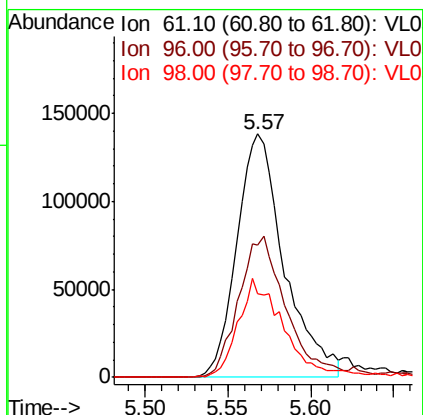
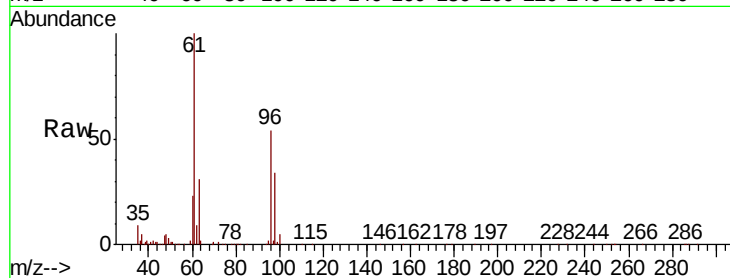




#31
 cis-1,2-Dichloroethene
 Concen: 1.846 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.03 min
 Lab File: VL036303.D
 Acq: 3 Feb 2021 21:13

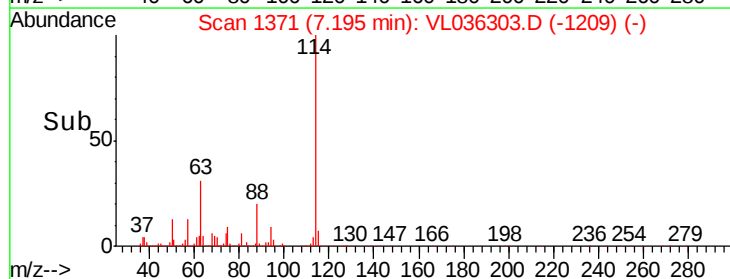
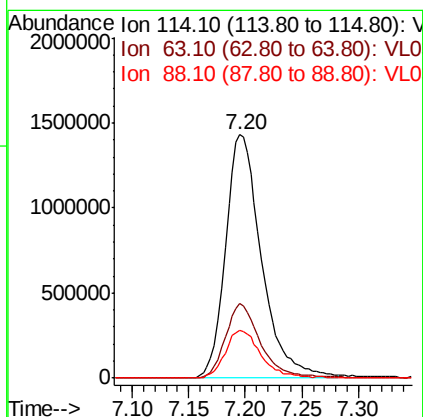
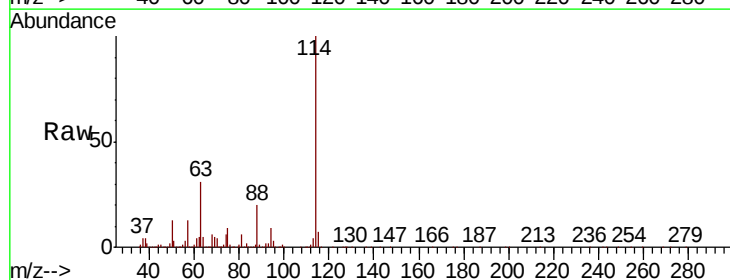
Instrument :
 MSVOA_L
 ClientSampleId :

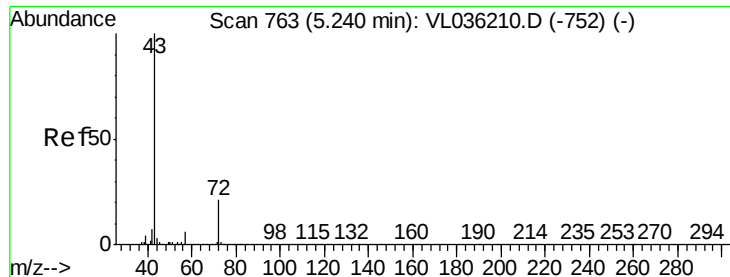
Tot Ion	Ratio	Lower	Upper
61	100		
96	54.1	44.1	66.1
98	34.1	28.6	42.8



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.02 min
 Lab File: VL036303.D
 Acq: 3 Feb 2021 21:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.3	24.7	37.1
88	20.0	16.6	24.8

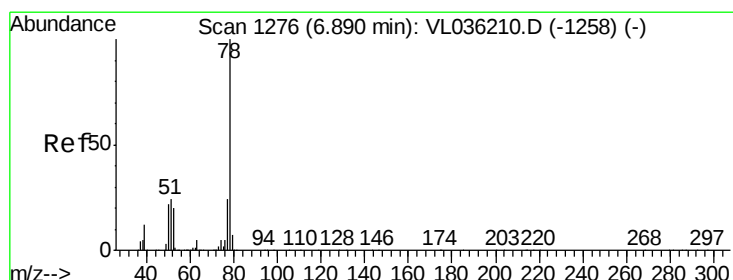
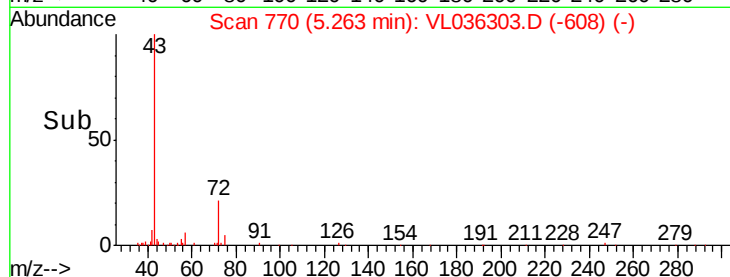
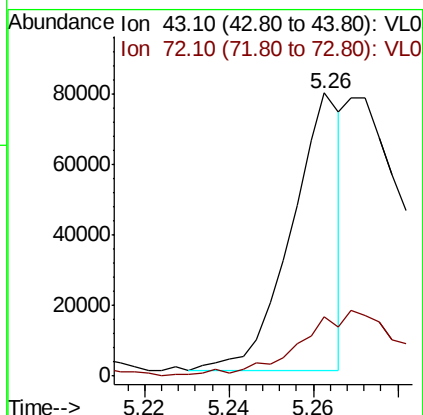
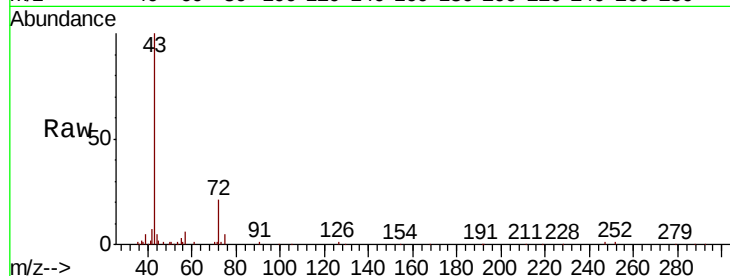




#34
2-Butanone
Concen: 0.276 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.02 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

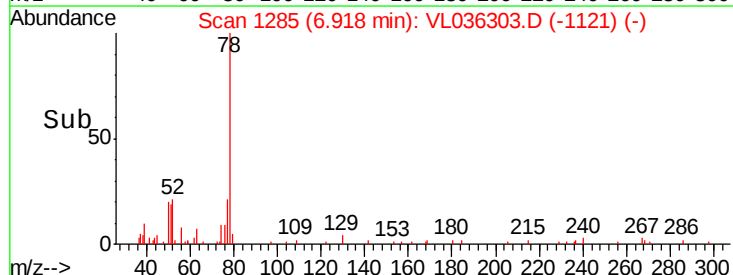
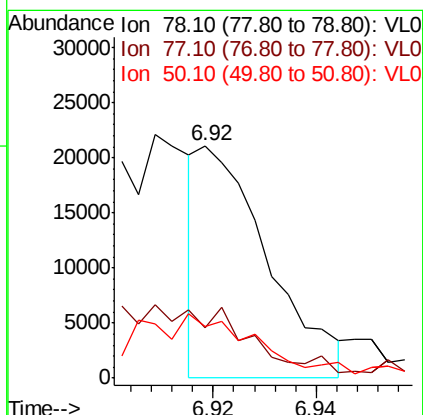
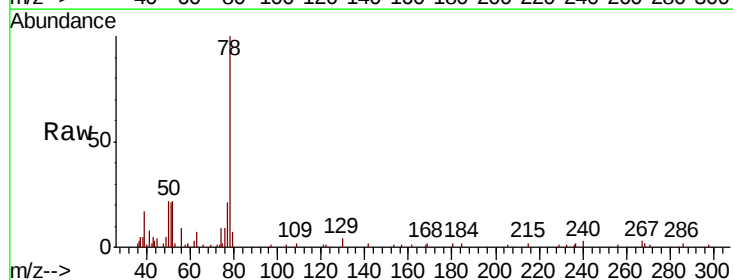
Instrument :
MSVOA_L
ClientSampleId :

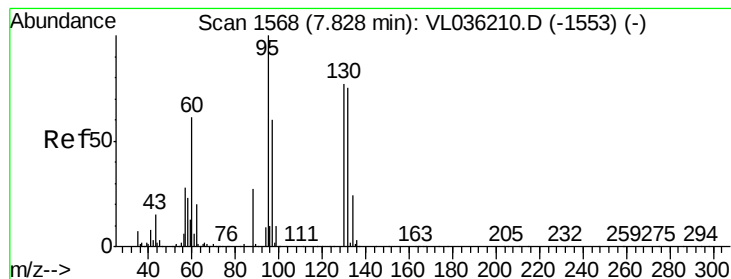
Tot Ion: 43 Resp: 64276
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#



#36
Benzene
Concen: 0.068 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. 0.03 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Tgt Ion: 78 Resp: 19622
Ion Ratio Lower Upper
78 100
77 22.9 19.4 29.0
50 18.3 17.4 26.2





#38

Trichloroethene

Concen: 0.039 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.03 min

Lab File: VL036303.D

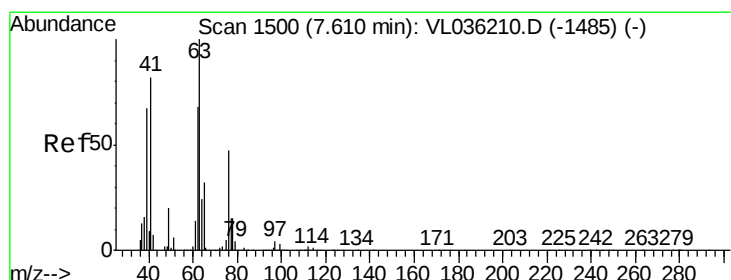
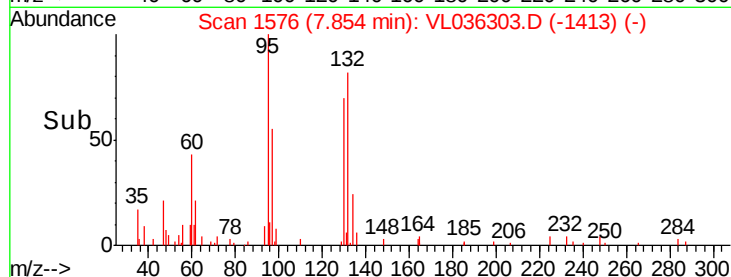
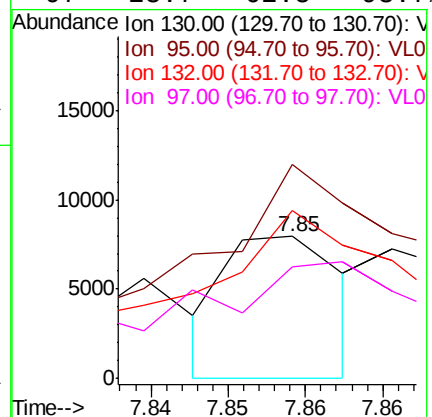
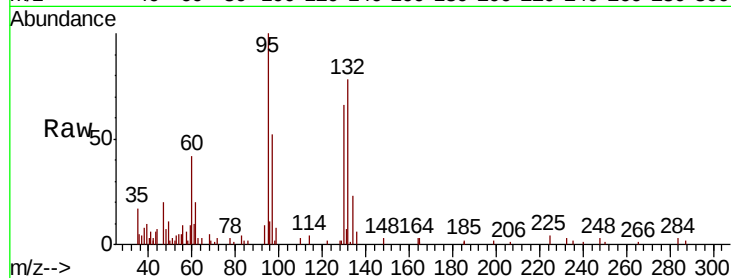
Acq: 3 Feb 2021 21:13

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	130	Resp:	4171
Ion	Ratio	Lower	Upper
130	100		
95	113.9	103.9	155.9
132	104.3	77.4	116.2
97	28.7	62.5	93.7#



#39

1,2-Dichloropropane

Concen: 8.020 ppbv

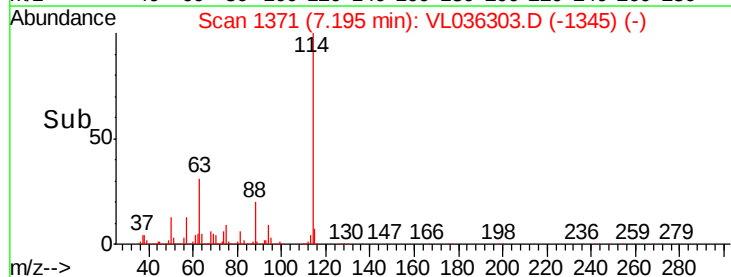
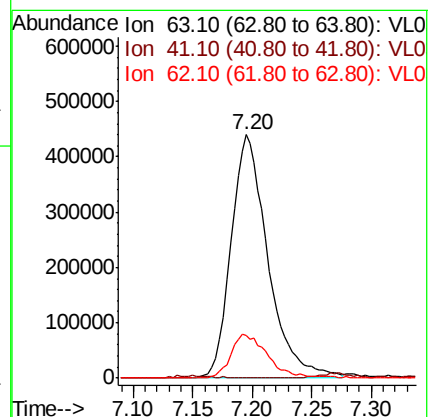
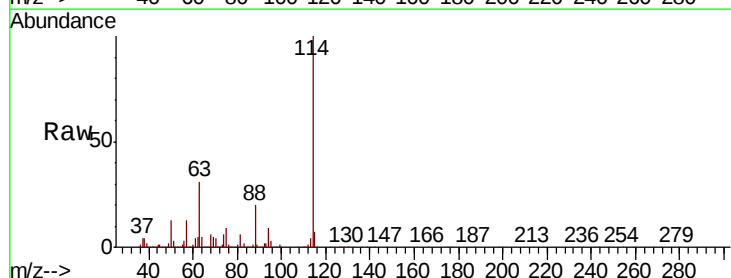
RT: 7.20 min Scan# 1371

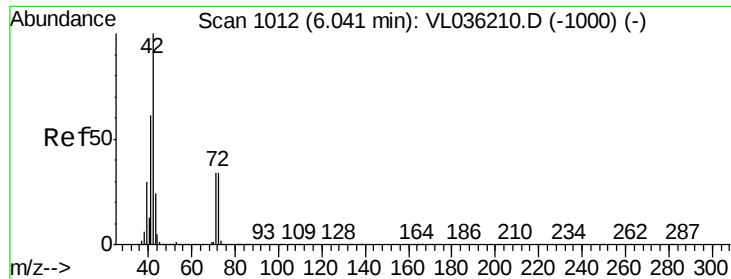
Delta R.T. -0.41 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Tgt Ion:	63	Resp:	943115
Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	17.3	54.8	82.2#

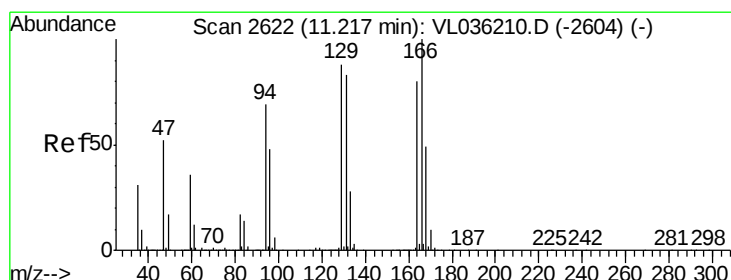
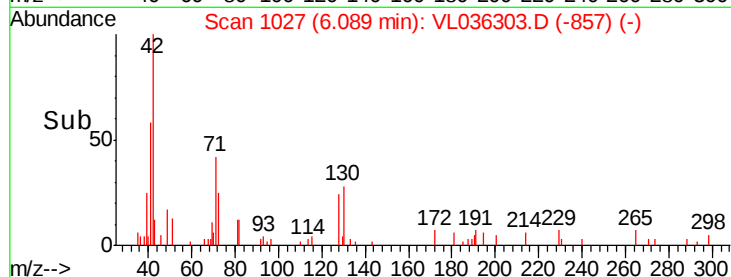
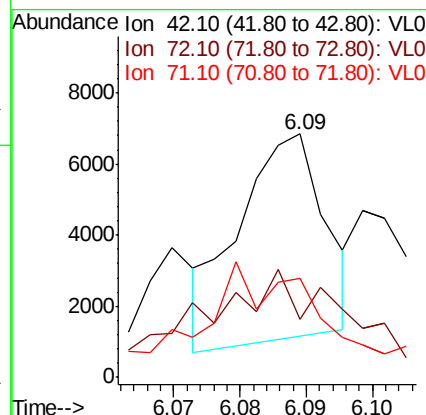
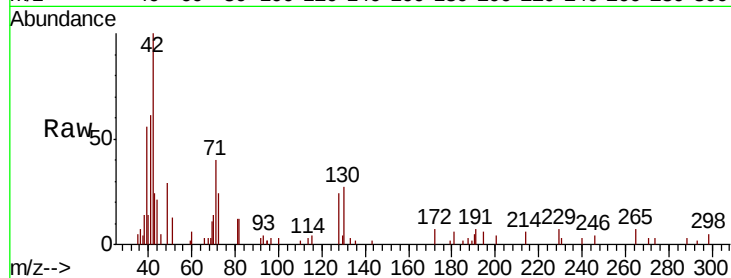




#41
Tetrahydrofuran
Concen: 0.039 ppbv
RT: 6.09 min Scan# 1027
Delta R.T. 0.05 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

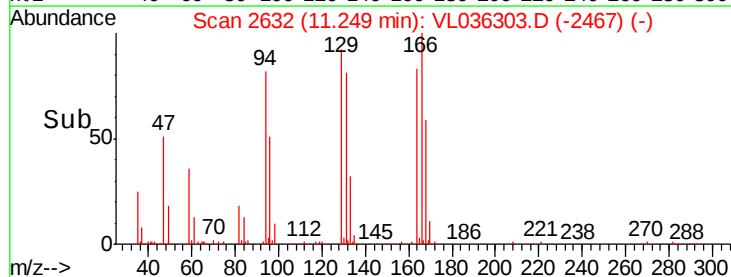
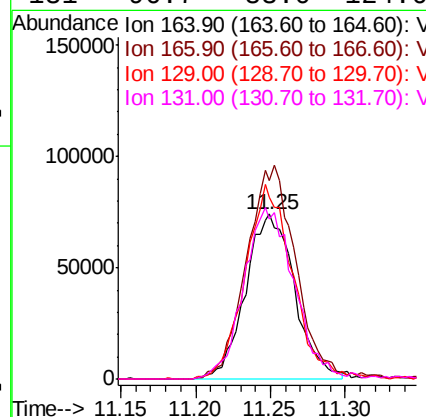
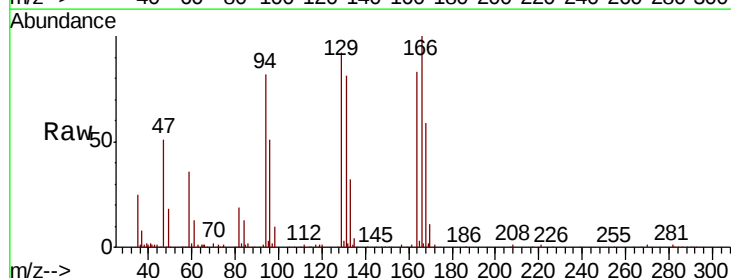
Instrument :
MSVOA_L
ClientSampled :

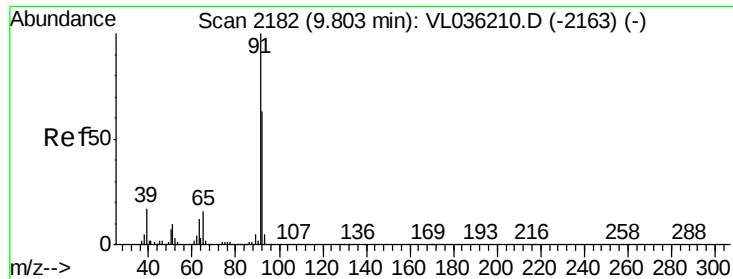
Tot Ion: 42 Resp: 5234
Ion Ratio Lower Upper
42 100
72 107.8 29.5 44.3#
71 106.1 29.1 43.7#



#52
Tetrachloroethene
Concen: 1.583 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. 0.03 min
Lab File: VL036303.D
Acq: 3 Feb 2021 21:13

Tgt Ion: 164 Resp: 168921
Ion Ratio Lower Upper
164 100
166 120.2 99.9 149.9
129 110.6 88.2 132.4
131 96.7 83.0 124.6





#53

Toluene

Concen: 2.861 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Instrument :

MSVOA_L

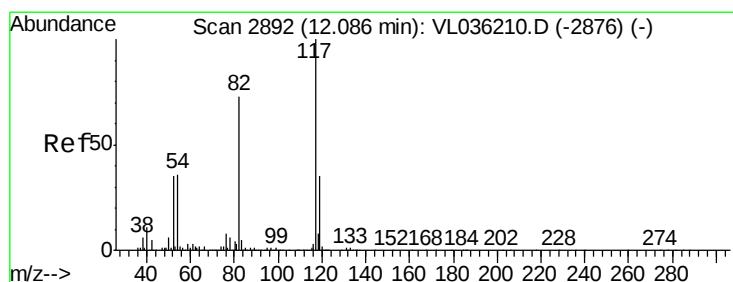
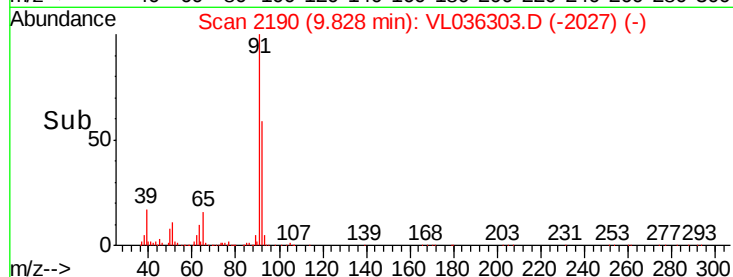
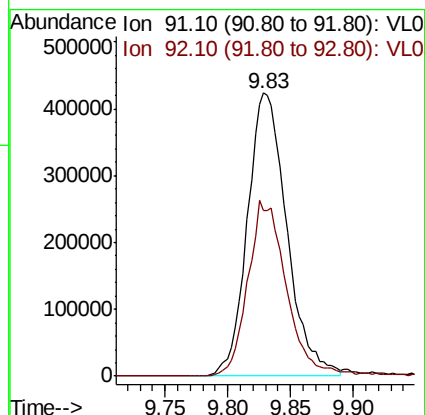
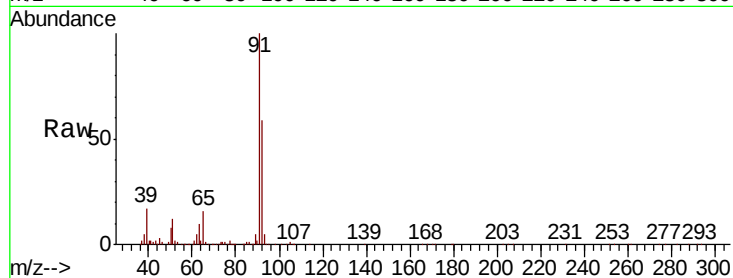
ClientSampleId :

Tot Ion: 91 Resp: 926897

Ion Ratio Lower Upper

91 100

92 61.4 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

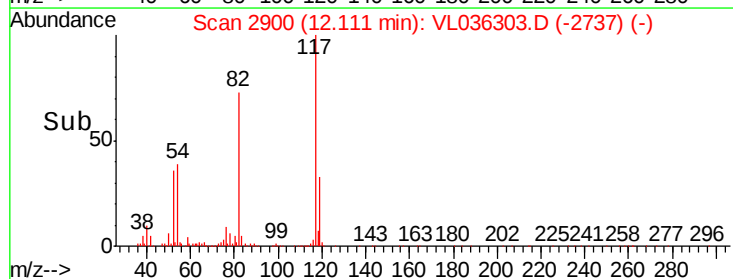
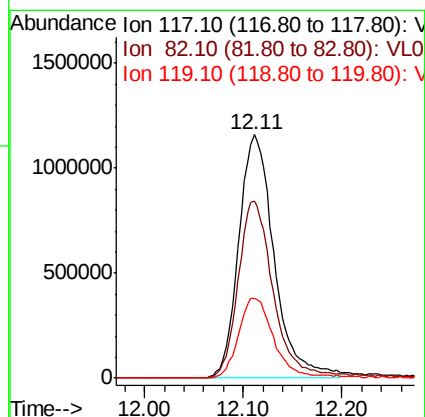
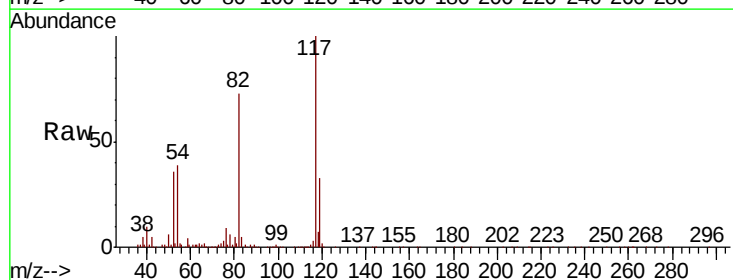
Tgt Ion: 117 Resp: 2891023

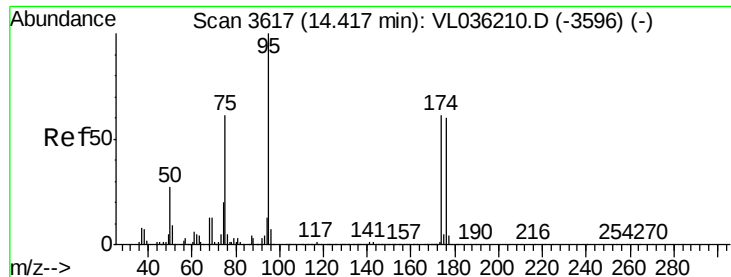
Ion Ratio Lower Upper

117 100

82 74.7 59.7 89.5

119 33.0 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.903 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.03 min

Lab File: VL036303.D

Acq: 3 Feb 2021 21:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2369745

Ion Ratio Lower Upper

95 100

174 62.9 49.4 74.0

175 4.5 3.8 5.8

