

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036826.D
 Acq On : 20 Apr 2021 17:57
 Operator : SY/AP
 Sample : M2096-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:37:45 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	5.68	49	1253791	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3144618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2549245	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1848610	9.10	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.00%

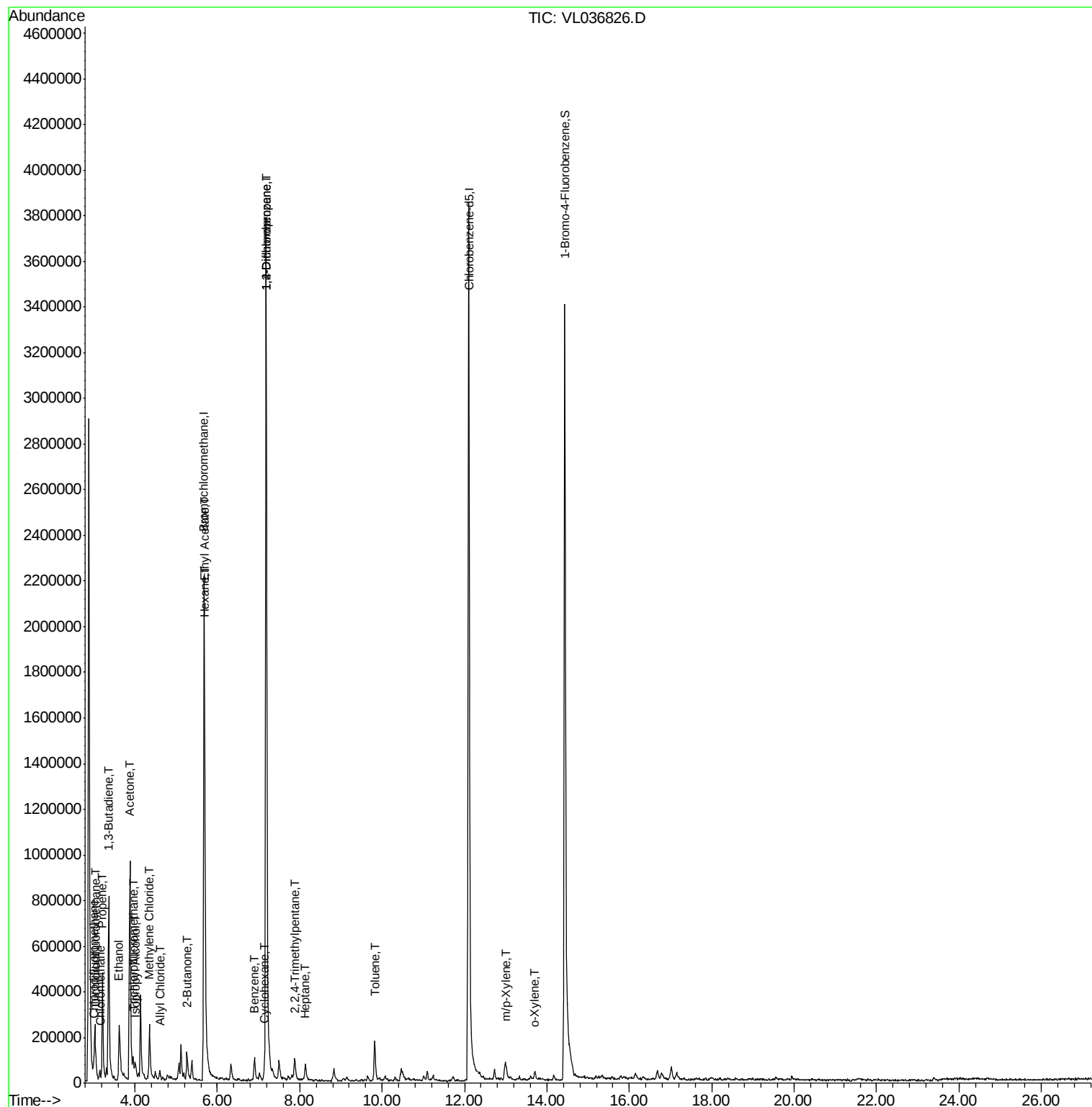
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	47274	0.231 ppbv	93
3) Chlorodifluoromethane	2.99	51	78726	0.336 ppbv #	91
4) Chloromethane	3.15	50	11444	0.138 ppbv	90
9) Propene	3.21	41	146300	1.959 ppbv	95
10) Heptane	8.14	43	9439	0.050 ppbv #	1
11) Trichlorofluoromethane	3.96	101	41974	0.201 ppbv #	83
13) Ethanol	3.62	45	286910	32.262 ppbv	82
15) Acetone	3.87	43	476433	3.861 ppbv #	82
16) 1,3-Butadiene	3.36	39	127218	1.481 ppbv #	19
19) Isopropyl Alcohol	4.00	45	41345	0.609 ppbv #	74
20) Methylene Chloride	4.35	84	88108	1.525 ppbv	96
21) Allyl Chloride	4.60	41	10781	0.110 ppbv	91
25) Ethyl Acetate	5.69	43	138470	0.472 ppbv #	91
26) Hexane	5.70	57	133022	0.977 ppbv #	57
30) Cyclohexane	7.13	84	4847	0.044 ppbv #	1
34) 2-Butanone	5.26	43	178871	1.165 ppbv	96
36) Benzene	6.90	78	68492	0.236 ppbv	97
39) 1,2-Dichloropropane	7.19	63	812376	6.905 ppbv #	23
44) 2,2,4-Trimethylpentane	7.88	57	44829	0.088 ppbv #	34
53) Toluene	9.82	91	128235	0.415 ppbv	100
59) m/p-Xylene	13.01	91	21735	0.067 ppbv #	32
60) o-Xylene	13.71	91	14009	0.045 ppbv #	22

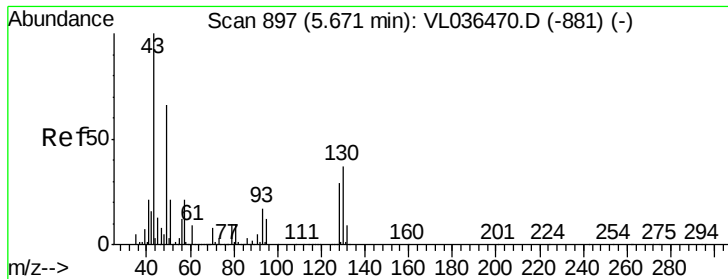
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 20 Apr 2021 17:57

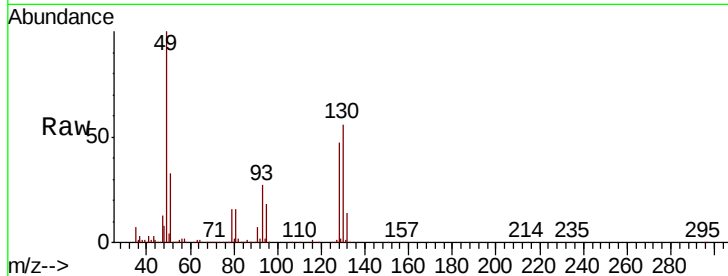
Tot Ion: 49 Resp: 1253791

Ion Ratio Lower Upper

49 100

128 46.8 23.5 70.6

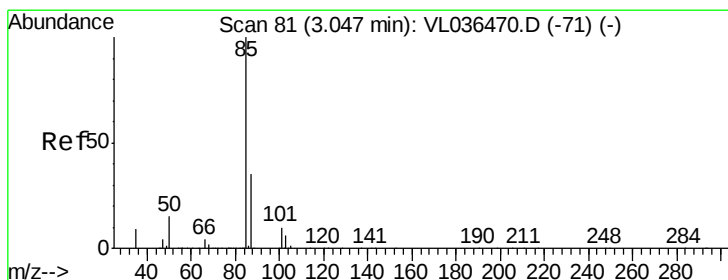
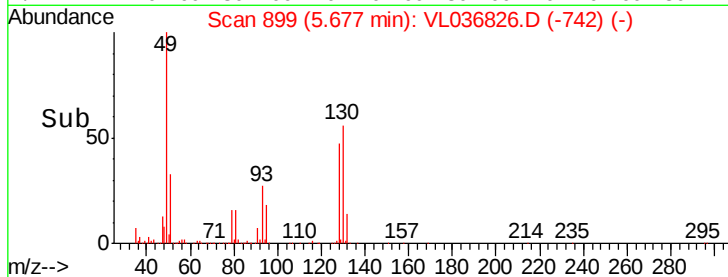
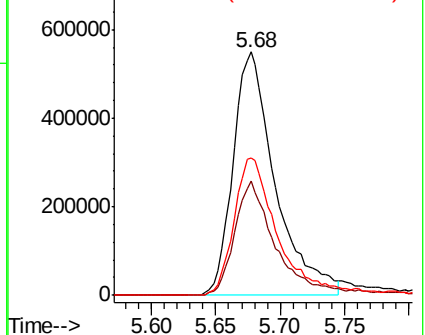
130 60.8 29.1 87.4



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: 0.231 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036826.D

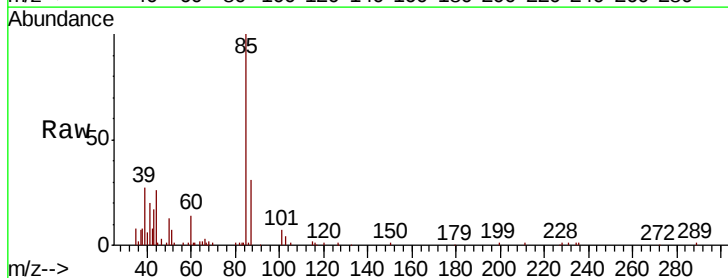
Acq: 20 Apr 2021 17:57

Tgt Ion: 85 Resp: 47274

Ion Ratio Lower Upper

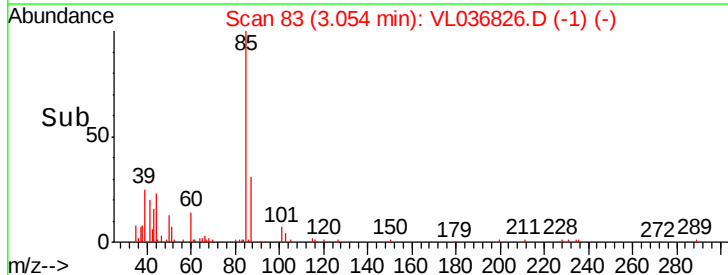
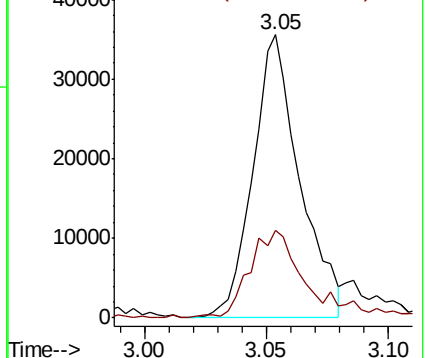
85 100

87 30.9 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

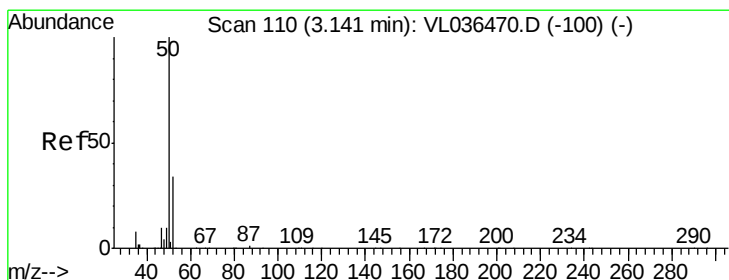
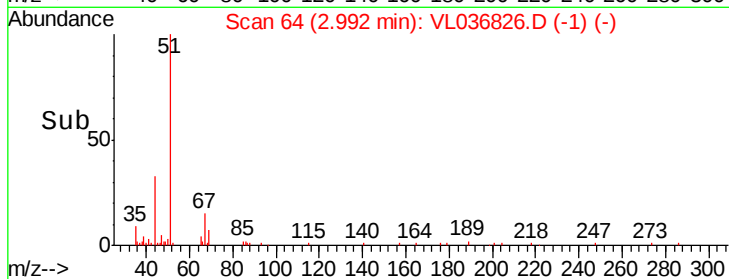
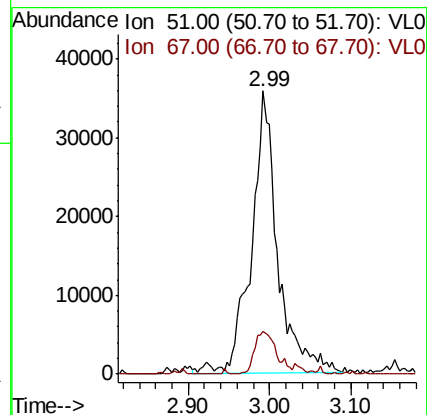
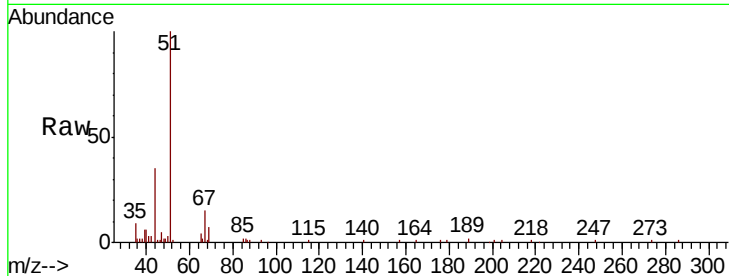
Acq: 20 Apr 2021 17:57

Tot Ion: 51 Resp: 78726

Ion Ratio Lower Upper

51 100

67 14.3 14.7 22.1#



#4

Chloromethane

Concen: 0.138 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036826.D

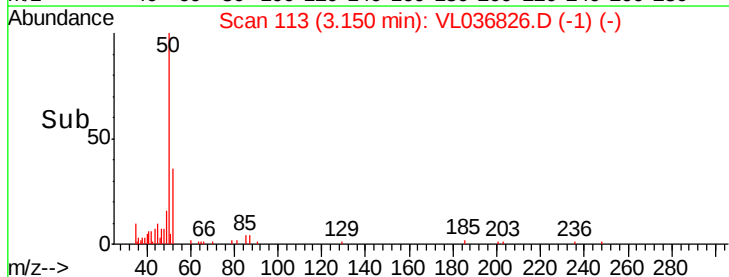
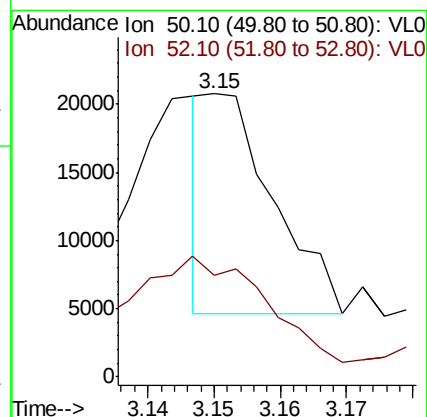
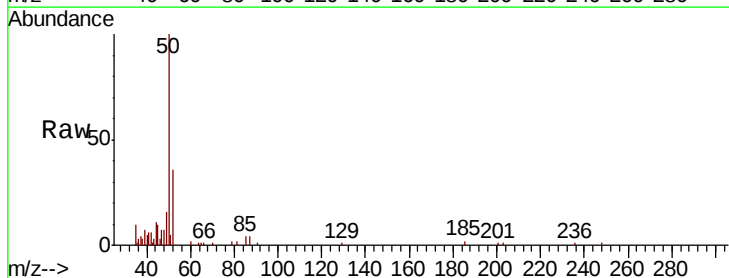
Acq: 20 Apr 2021 17:57

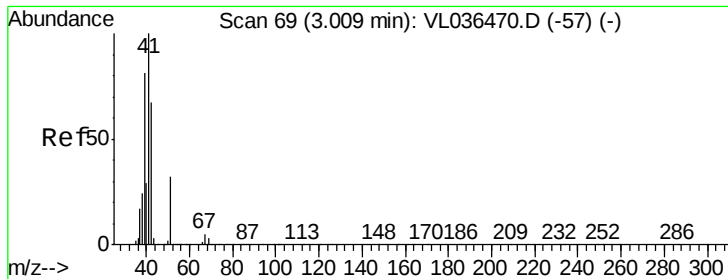
Tgt Ion: 50 Resp: 11444

Ion Ratio Lower Upper

50 100

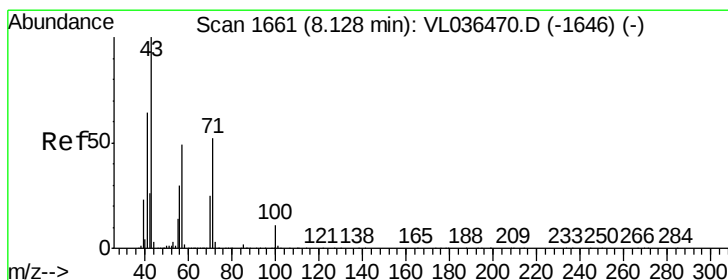
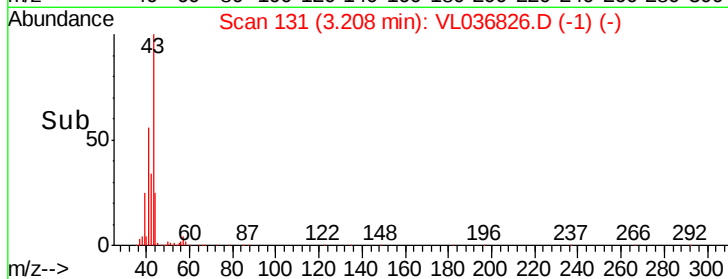
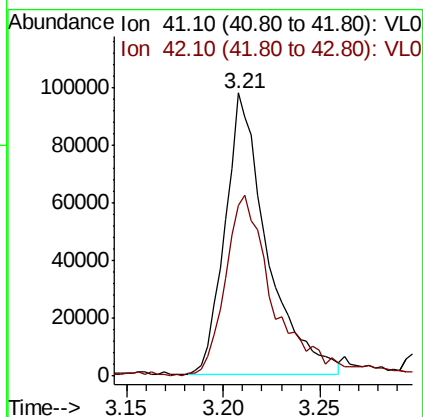
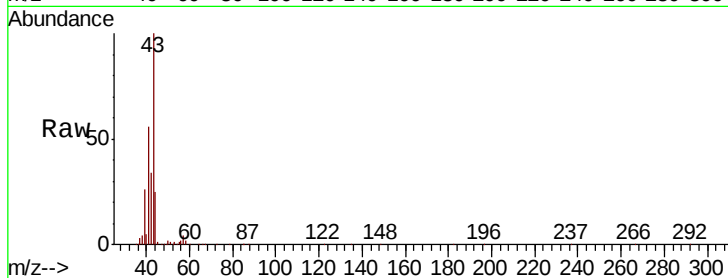
52 39.5 27.0 40.6





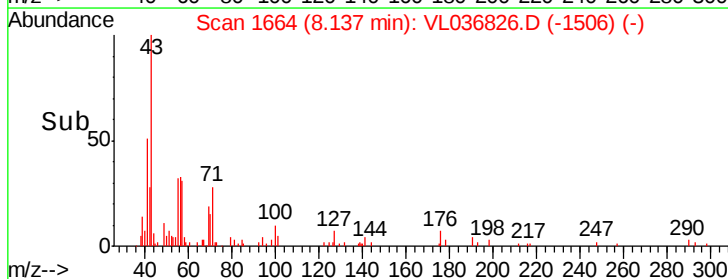
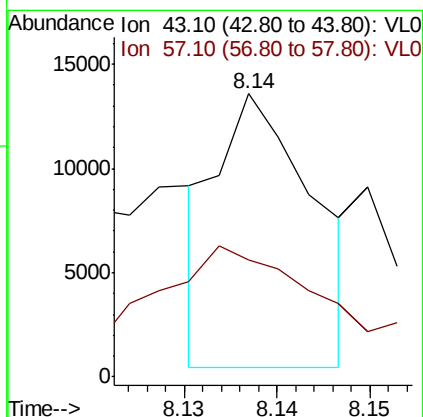
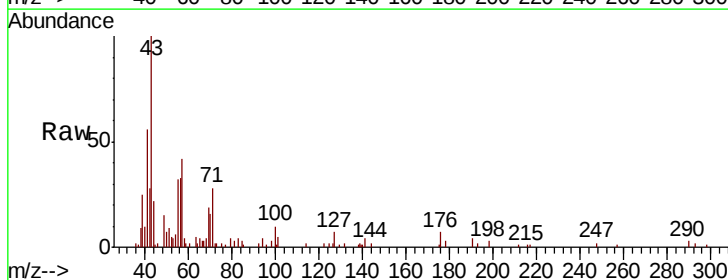
#9
 Propene
 Concen: 1.959 ppbv
 RT: 3.21
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 17:57

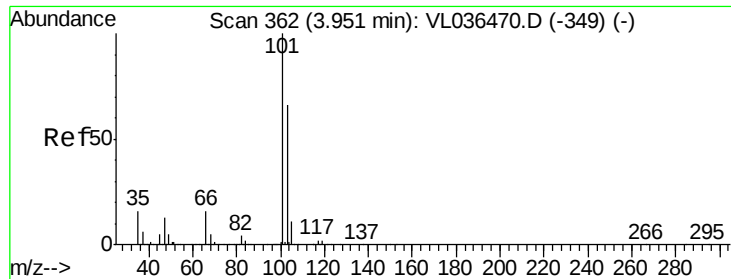
Tot Ion: 41 Resp: 146300
 Ion Ratio Lower Upper
 41 100
 42 75.7 57.0 85.4



#10
 Heptane
 Concen: 0.050 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VL036826.D
 Acq: 20 Apr 2021 17:57

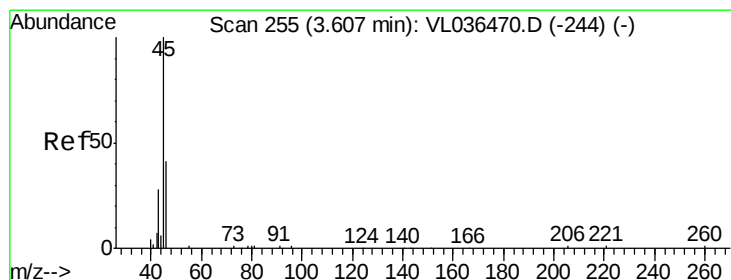
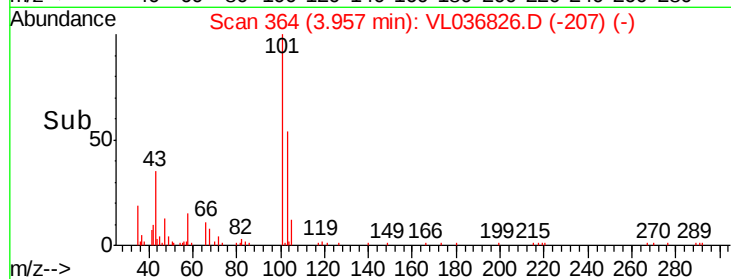
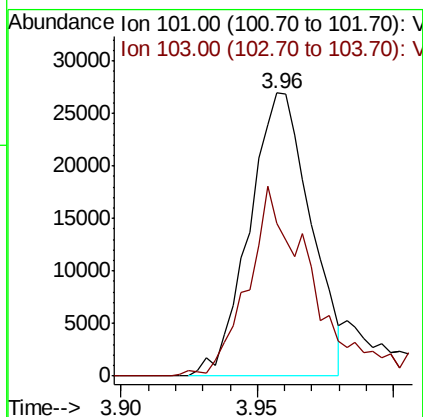
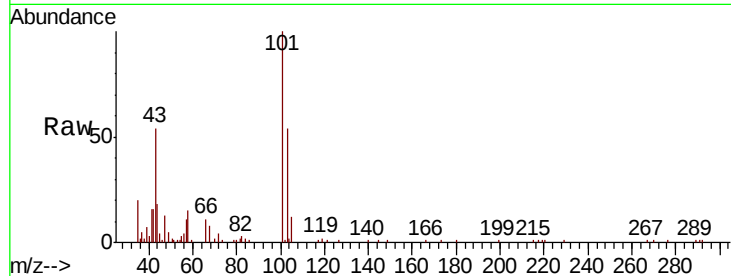
Tgt Ion: 43 Resp: 9439
 Ion Ratio Lower Upper
 43 100
 57 132.2 39.0 58.6#





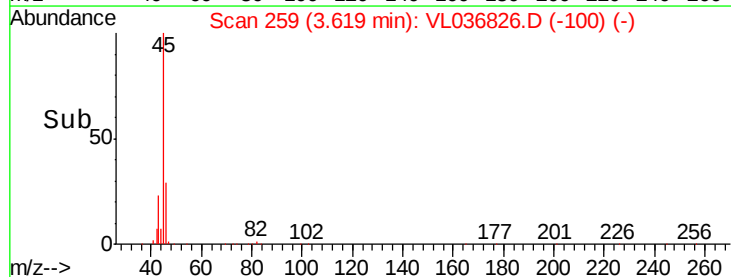
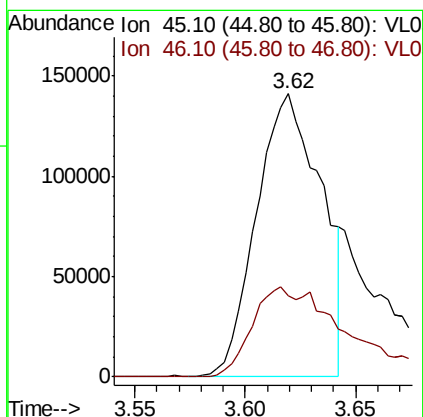
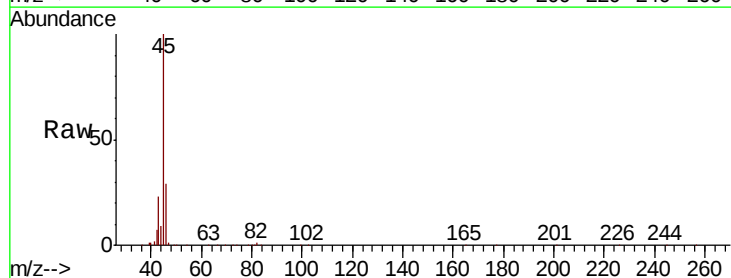
#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 20 Apr 2021 17:57

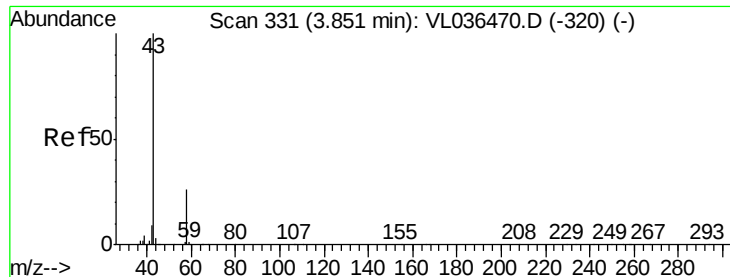
Tot Ion: 101 Resp: 41974
 Ion Ratio Lower Upper
 101 100
 103 52.0 52.5 78.7#



#13
 Ethanol
 Concen: 32.262 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036826.D
 Acq: 20 Apr 2021 17:57

Tgt Ion: 45 Resp: 286910
 Ion Ratio Lower Upper
 45 100
 46 52.5 16.6 66.2





#15

Acetone

Concen: 3.861 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File:

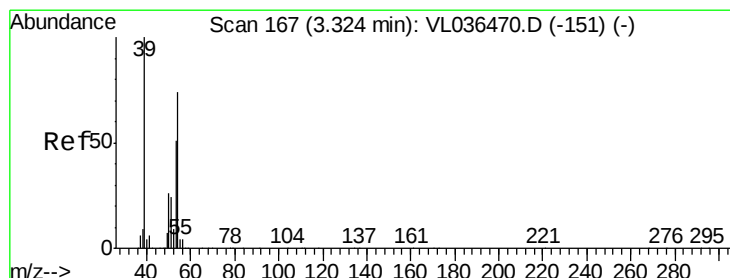
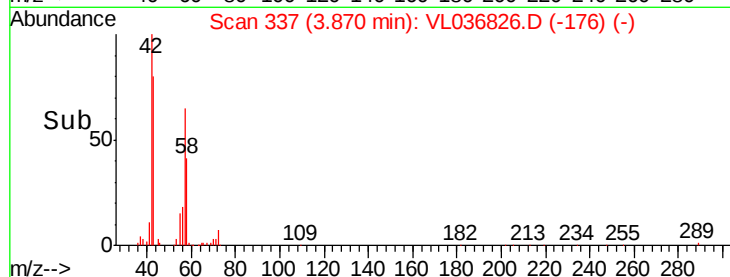
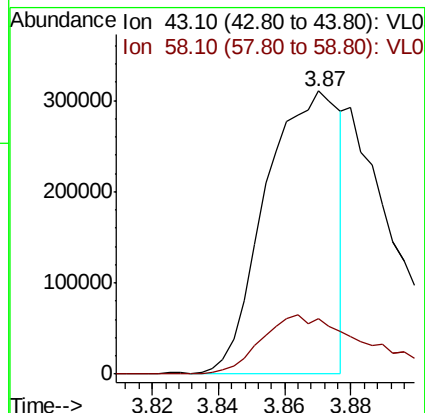
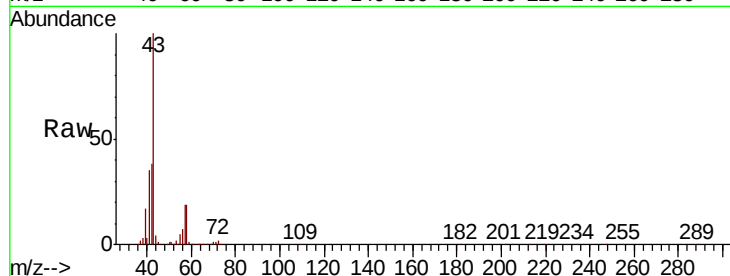
Acq: 20 Apr 2021 17:57

Tot Ion: 43 Resp: 476433

Ion Ratio Lower Upper

43 100

58 36.0 21.2 31.8#



#16

1,3-Butadiene

Concen: 1.481 ppbv

RT: 3.36 min Scan# 178

Delta R.T. 0.04 min

Lab File: VL036826.D

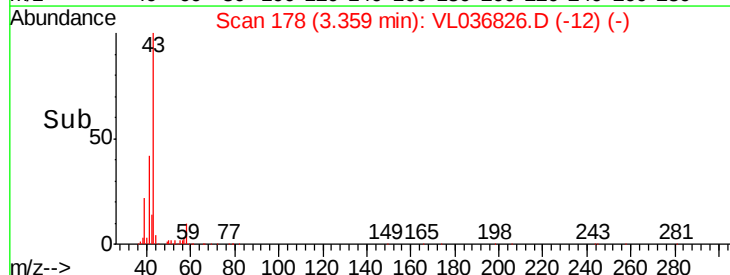
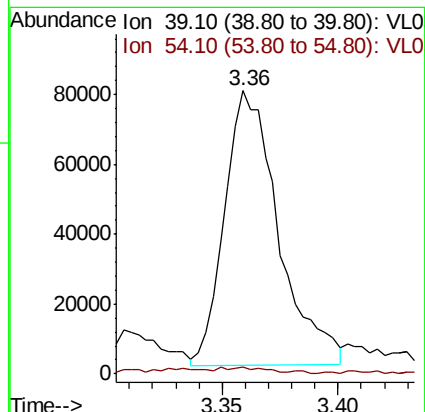
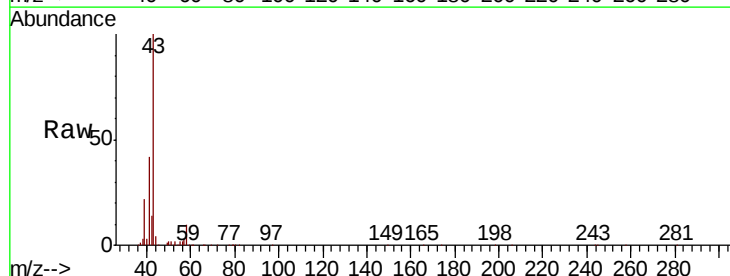
Acq: 20 Apr 2021 17:57

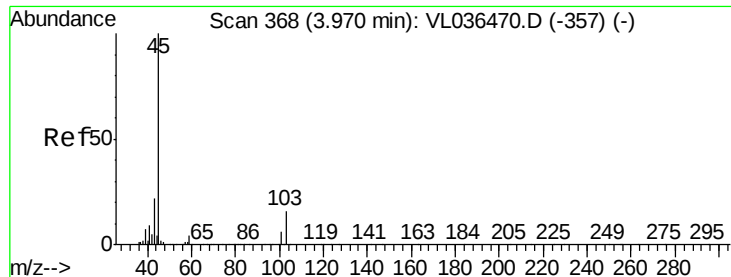
Tgt Ion: 39 Resp: 127218

Ion Ratio Lower Upper

39 100

54 4.9 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 0.609 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

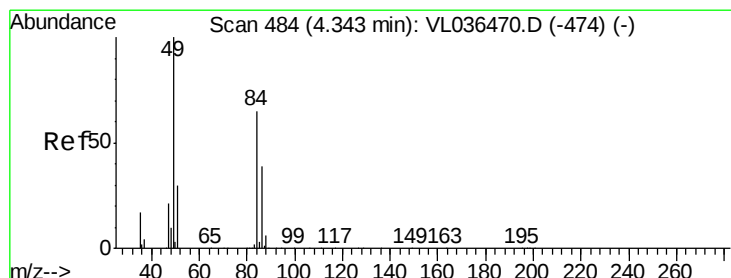
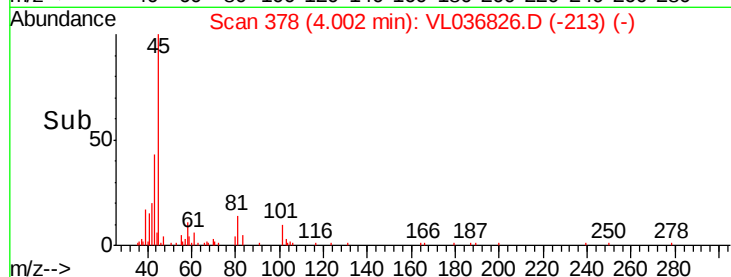
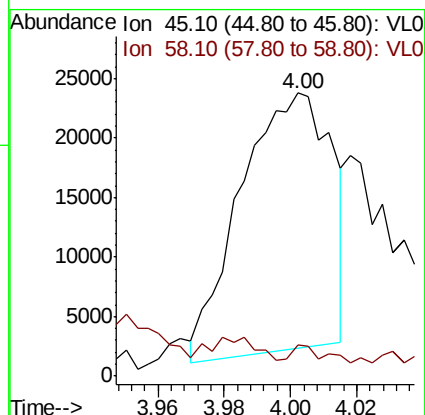
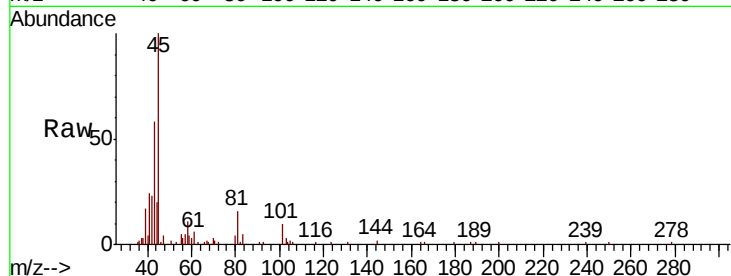
Acq: 20 Apr 2021 17:57

Tot Ion: 45 Resp: 41345

Ion Ratio Lower Upper

45 100

58 12.3 2.9 4.3#



#20

Methylene Chloride

Concen: 1.525 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036826.D

Acq: 20 Apr 2021 17:57

Tgt Ion: 84 Resp: 88108

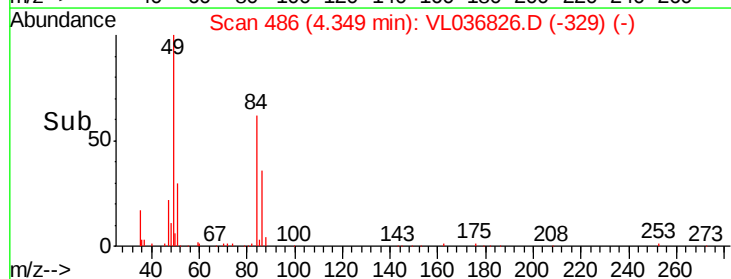
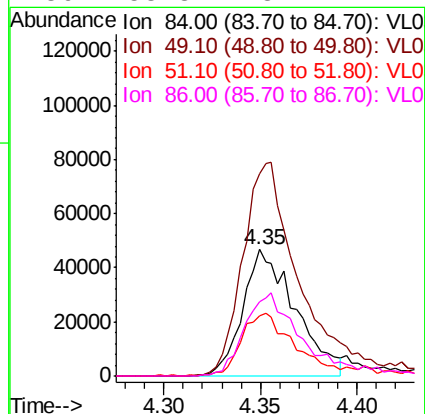
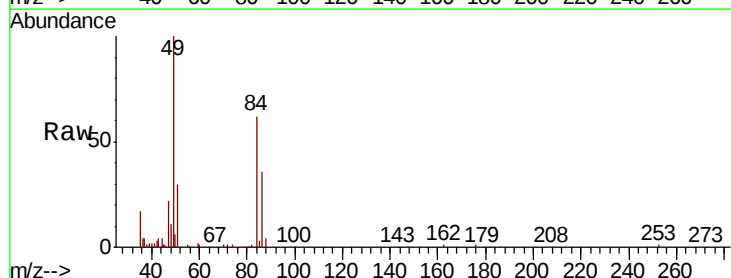
Ion Ratio Lower Upper

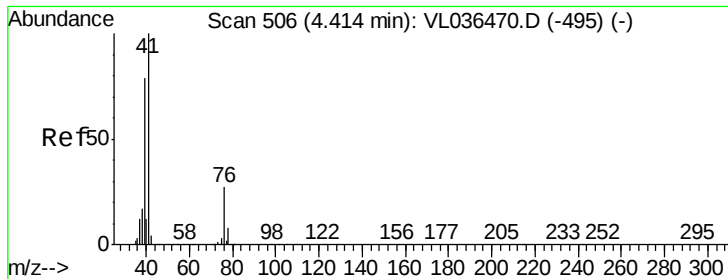
84 100

49 159.5 122.9 184.3

51 46.8 36.9 55.3

86 58.3 48.2 72.4





#21

Allvl Chloride

Concen: 0.110 ppbv

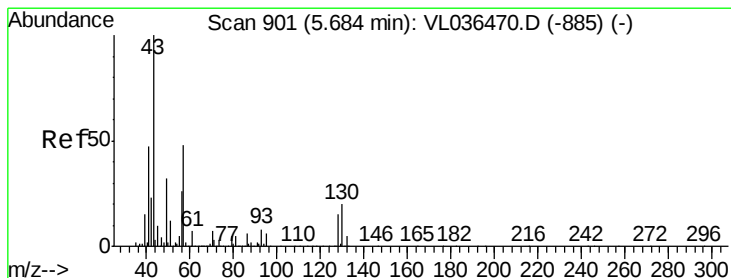
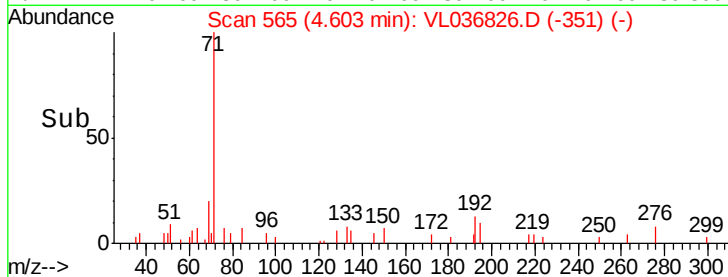
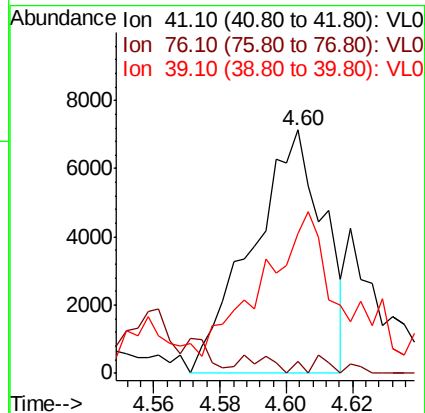
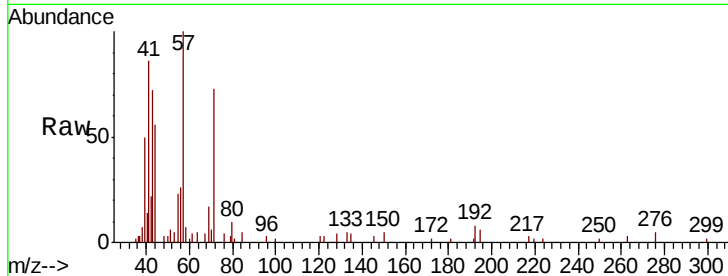
RT: 4.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 17:57

Tot Ion:	41	Resp:	10781
Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.9	34.3
39	72.8	67.3	100.9



#25

Ethyl Acetate

Concen: 0.472 ppbv

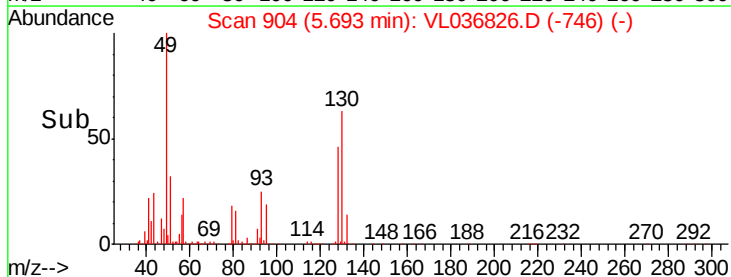
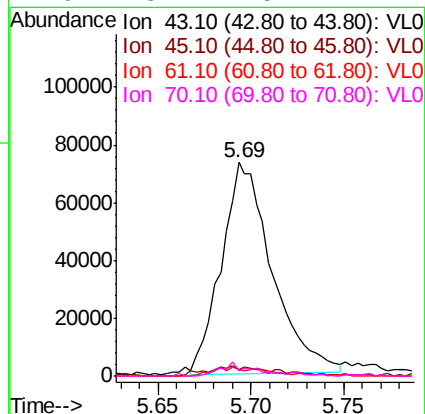
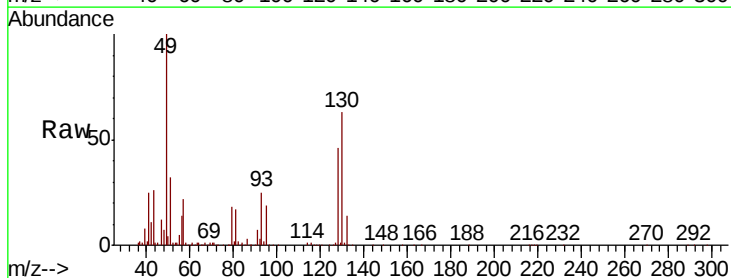
RT: 5.69 min Scan# 904

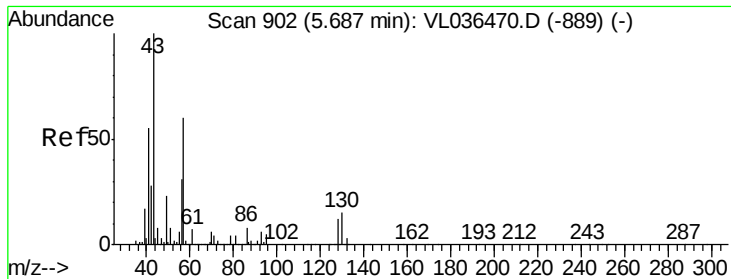
Delta R.T. 0.01 min

Lab File: VL036826.D

Acq: 20 Apr 2021 17:57

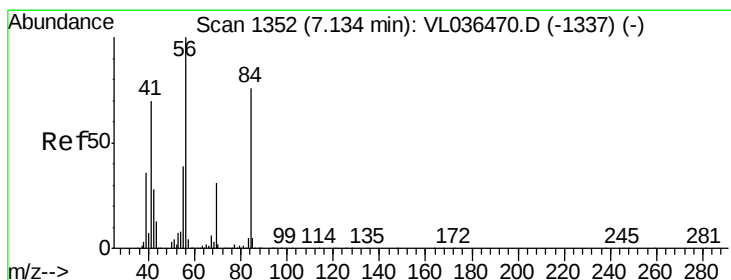
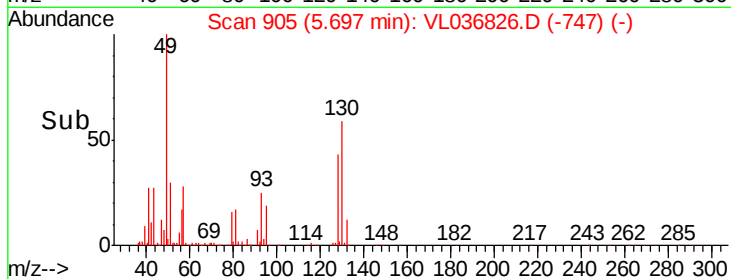
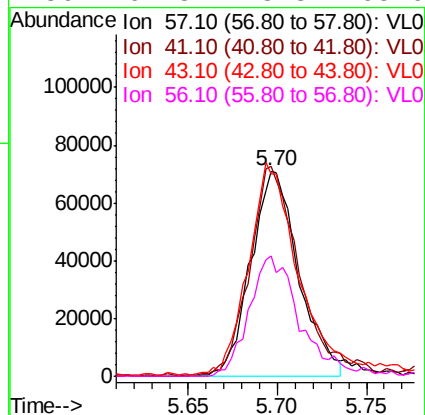
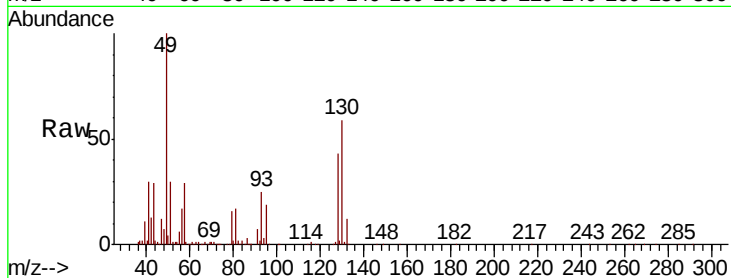
Tgt Ion:	43	Resp:	138470
Ion	Ratio	Lower	Upper
43	100		
45	6.6	7.9	11.9#
61	4.8	7.4	11.2#
70	5.2	5.1	7.7





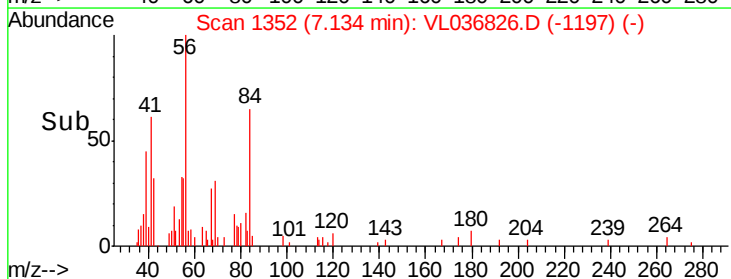
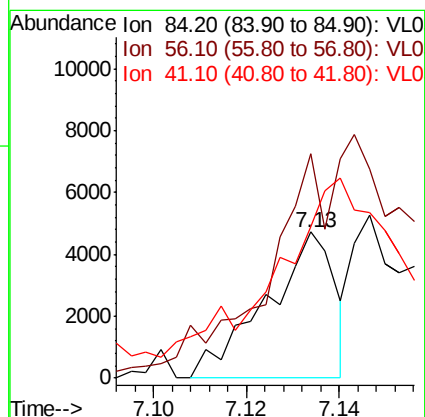
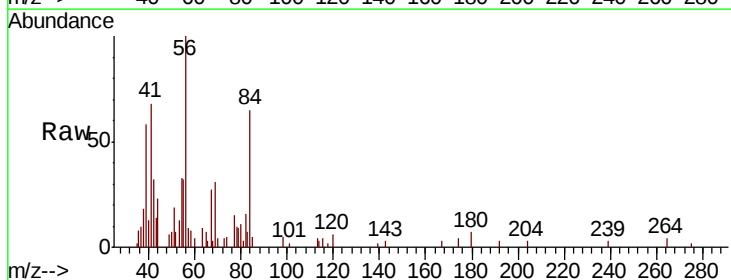
#26
Hexane
Concen: 0.977 ppbv
RT: 5.70
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 20 Apr 2021 17:57

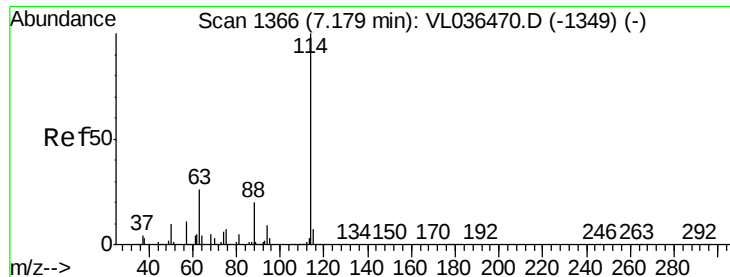
Tot Ion:	57	Resp:	133022
Ion	Ratio	Lower	Upper
57	100		
41	111.0	77.2	115.8
43	115.1	173.8	260.6#
56	62.8	43.8	65.6



#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.13 min Scan# 1352
Delta R.T.: -0.00 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion:	84	Resp:	4847
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	311.6	75.3	112.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 17:57

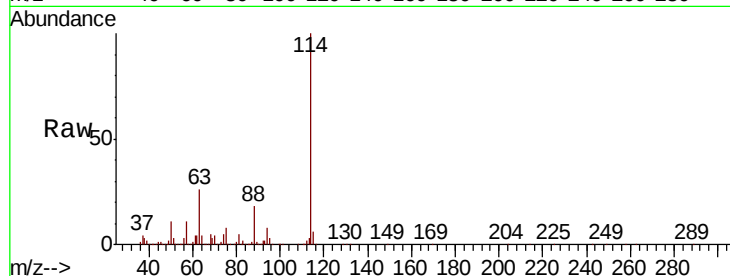
Tot Ion:114 Resp: 3144618

Ion Ratio Lower Upper

114 100

63 26.9 22.4 33.6

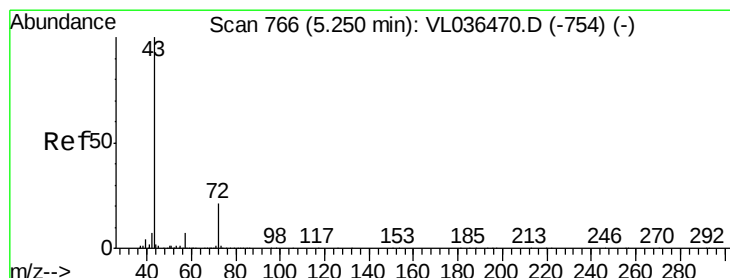
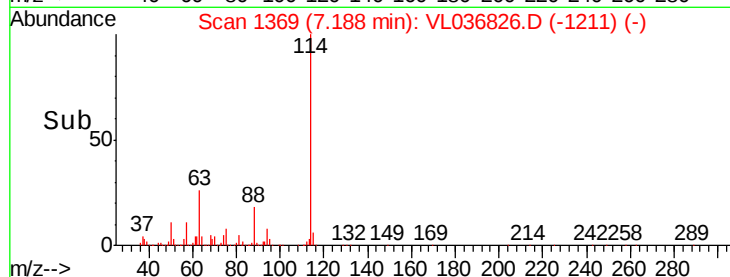
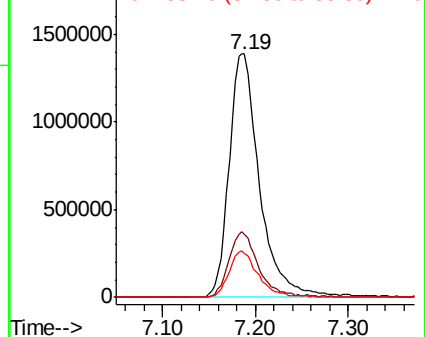
88 18.8 15.4 23.0



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: 1.165 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.01 min

Lab File: VL036826.D

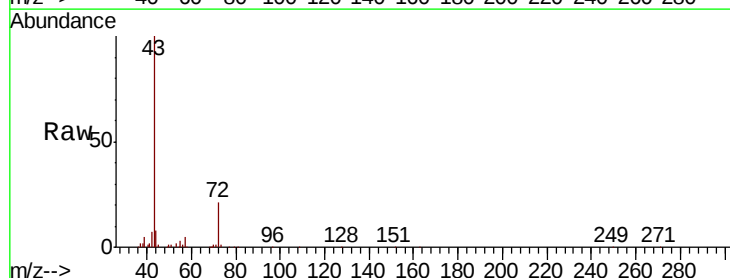
Acq: 20 Apr 2021 17:57

Tgt Ion: 43 Resp: 178871

Ion Ratio Lower Upper

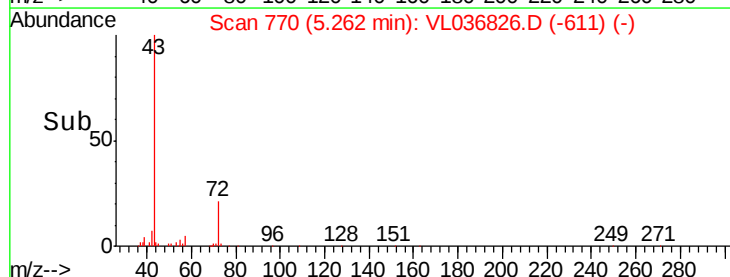
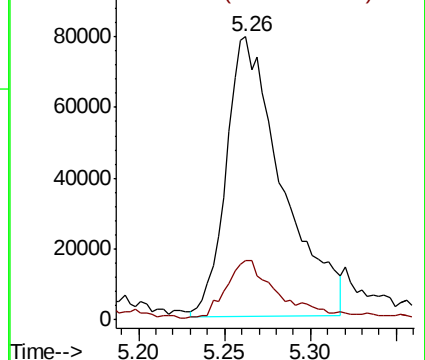
43 100

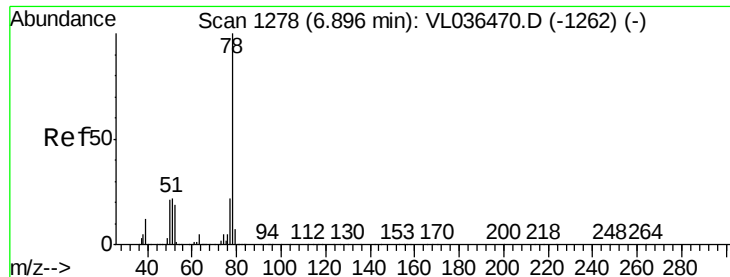
72 23.2 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.236 ppbv

RT: 6.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 17:57

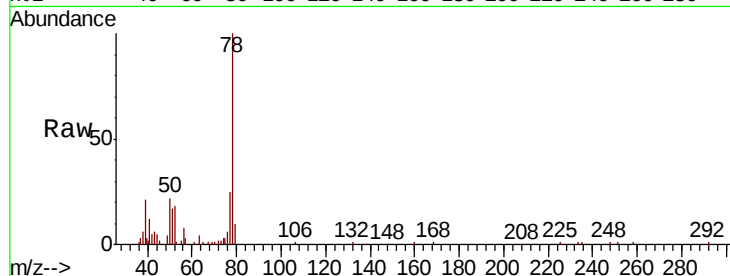
Tot Ion: 78 Resp: 68492

Ion Ratio Lower Upper

78 100

77 24.8 18.0 27.0

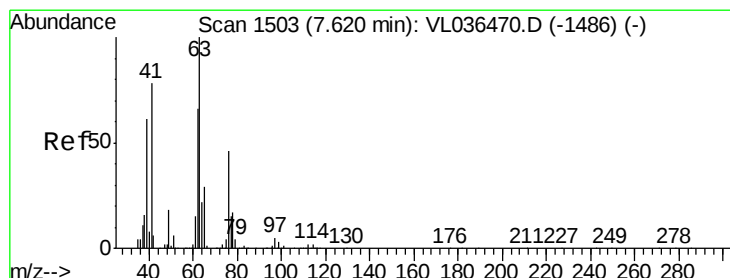
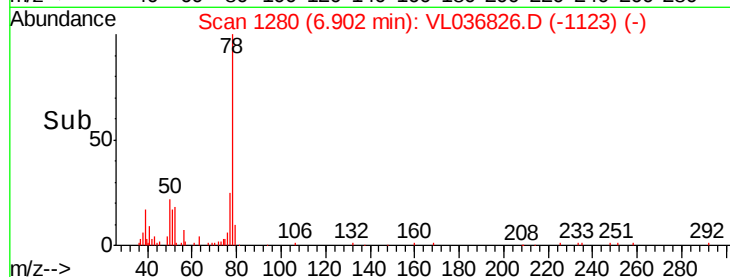
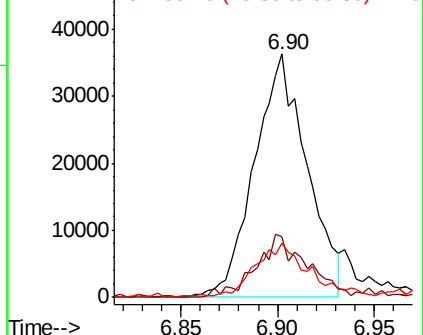
50 21.4 16.5 24.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 6.905 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.43 min

Lab File: VL036826.D

Acq: 20 Apr 2021 17:57

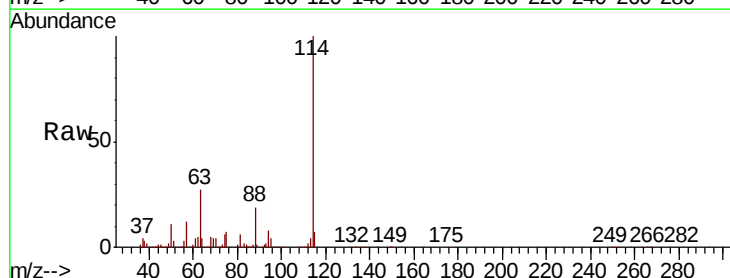
Tgt Ion: 63 Resp: 812376

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

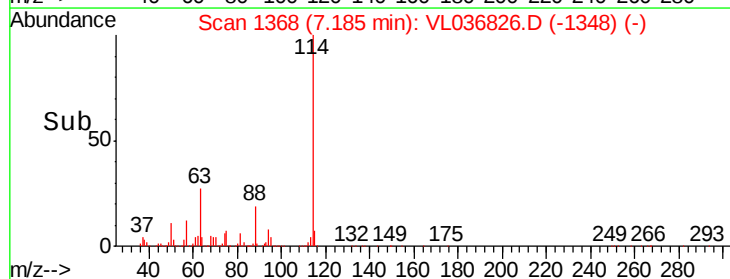
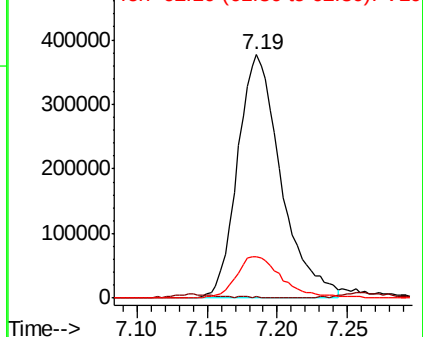
62 17.1 52.8 79.2#

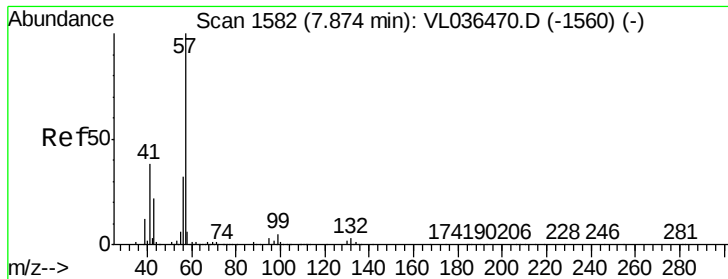


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.088 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 17:57

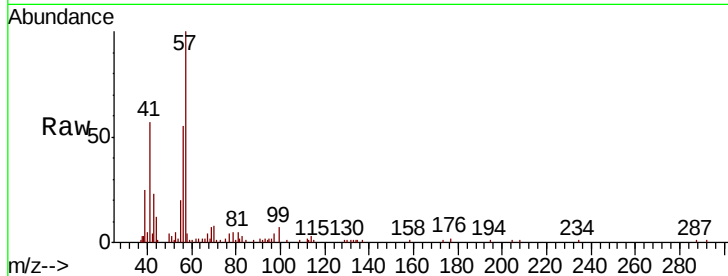
Tot Ion: 57 Resp: 44829

Ion Ratio Lower Upper

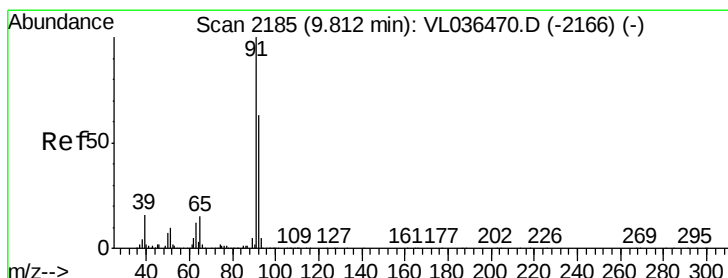
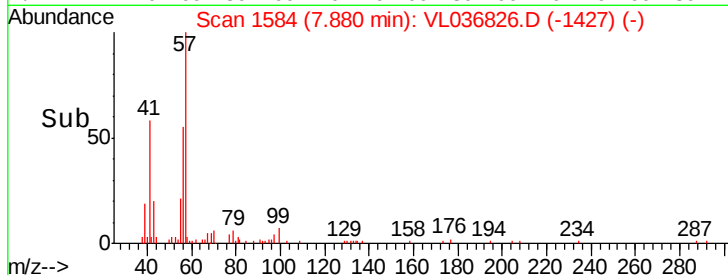
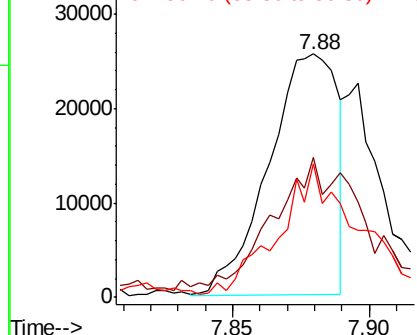
57 100

41 76.8 28.8 43.2#

56 67.2 26.1 39.1#



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



#53

Toluene

Concen: 0.415 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL036826.D

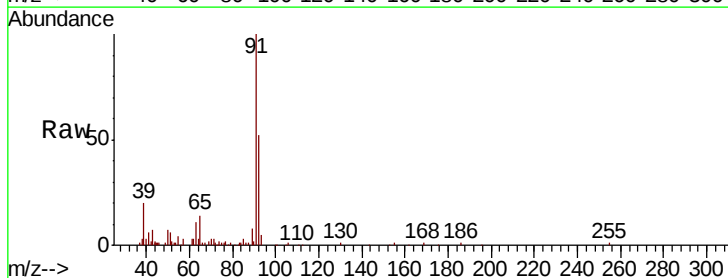
Acq: 20 Apr 2021 17:57

Tgt Ion: 91 Resp: 128235

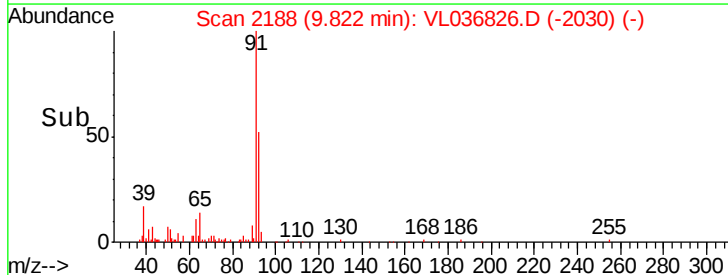
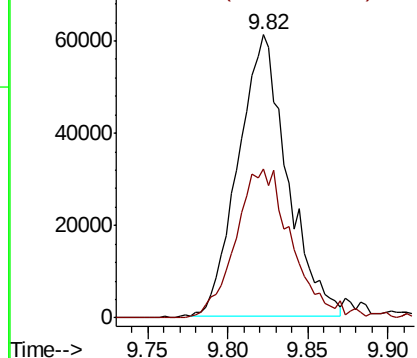
Ion Ratio Lower Upper

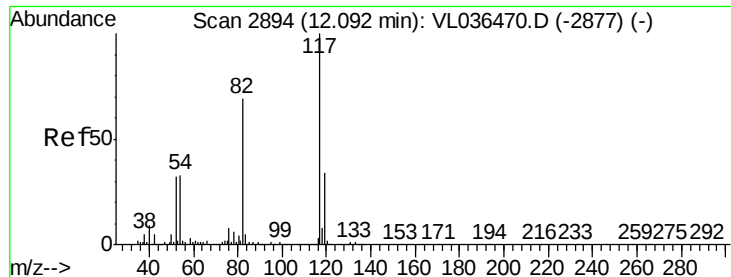
91 100

92 60.9 48.8 73.2



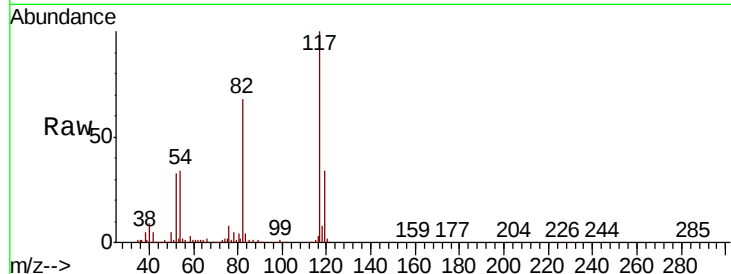
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



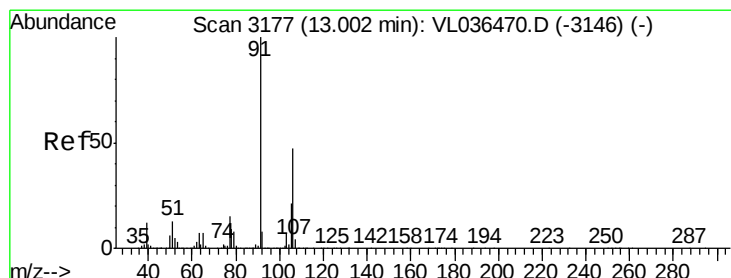
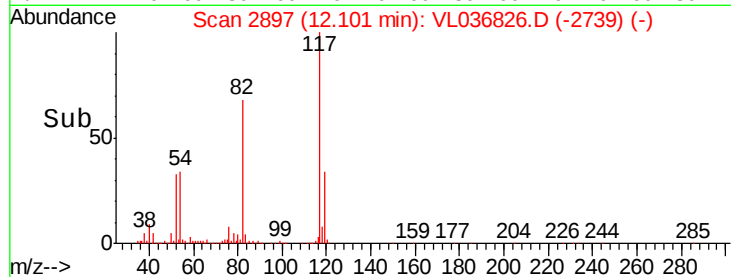
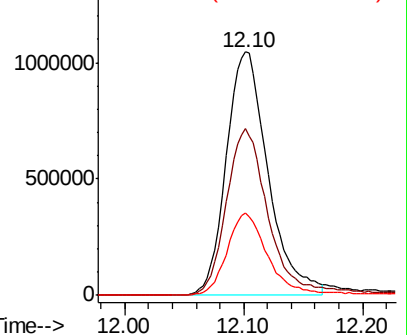


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 20 Apr 2021 17:57

Tot Ion: 117 Resp: 2549245
Ion Ratio Lower Upper
117 100
82 72.0 57.4 86.0
119 34.4 47.4 71.0#

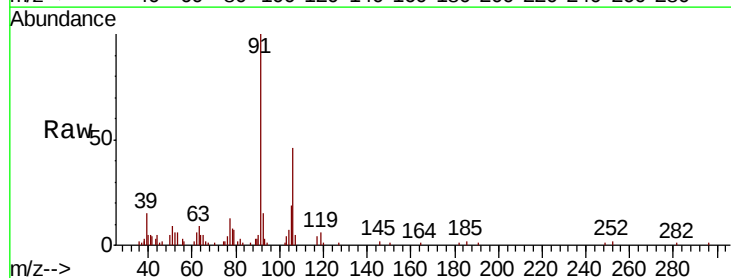


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

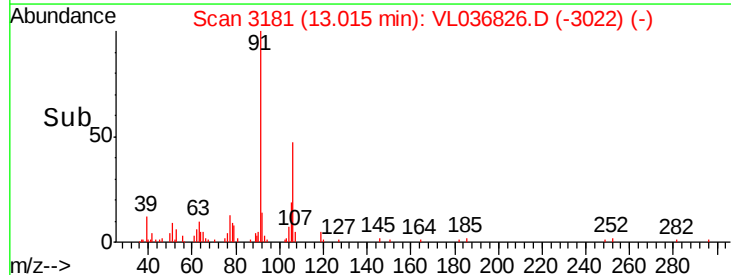
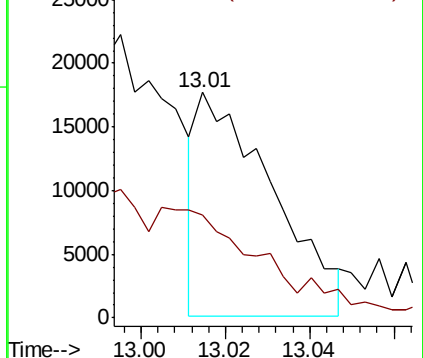


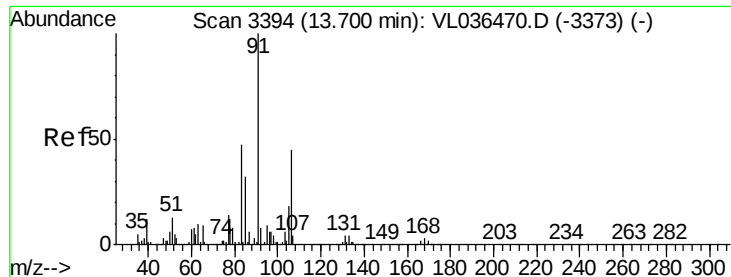
#59
m/p-Xylene
Concen: 0.067 ppbv
RT: 13.01 min Scan# 3181
Delta R.T.: 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion: 91 Resp: 21735
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



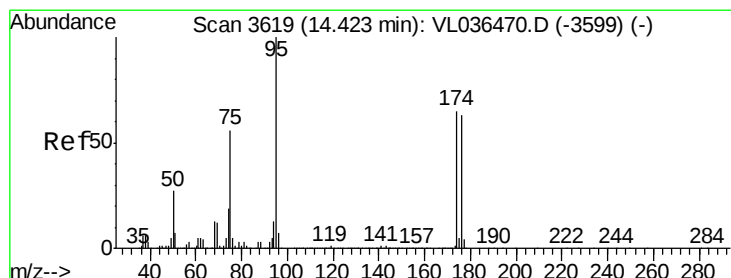
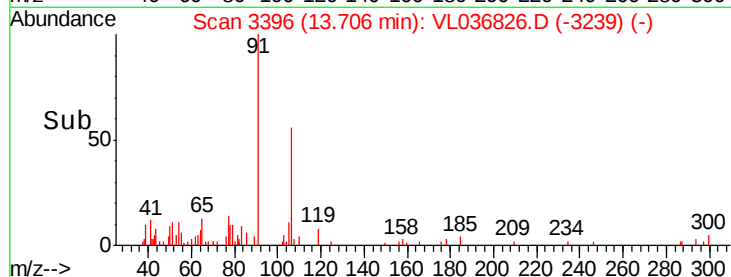
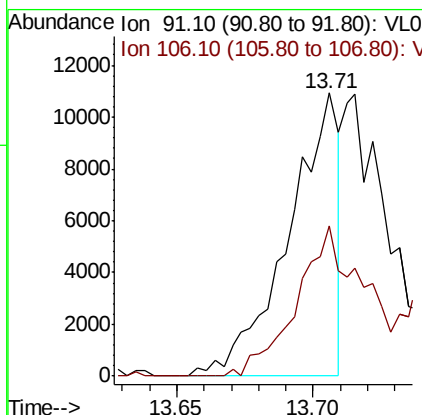
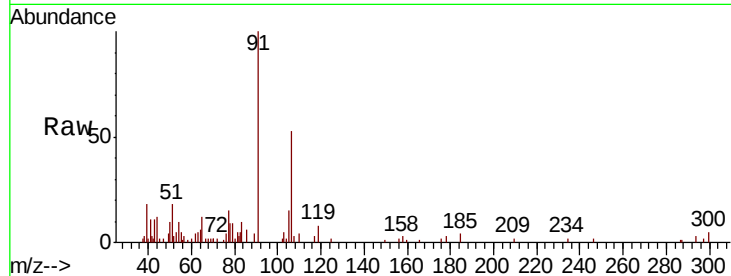
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.71 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion: 91 Resp: 14009
Ion Ratio Lower Upper
91 100
106 95.3 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.099 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion: 95 Resp: 1848610
Ion Ratio Lower Upper
95 100
174 68.3 51.0 76.6
175 5.2 3.9 5.9

