

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL010220\
 Data File : VL034553.D
 Acq On : 2 Jan 2020 19:20
 Operator : SY/AP
 Sample : K6473-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 50-2

Quant Time: Jan 03 01:11:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	870157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1752604	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1686068	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1432932	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

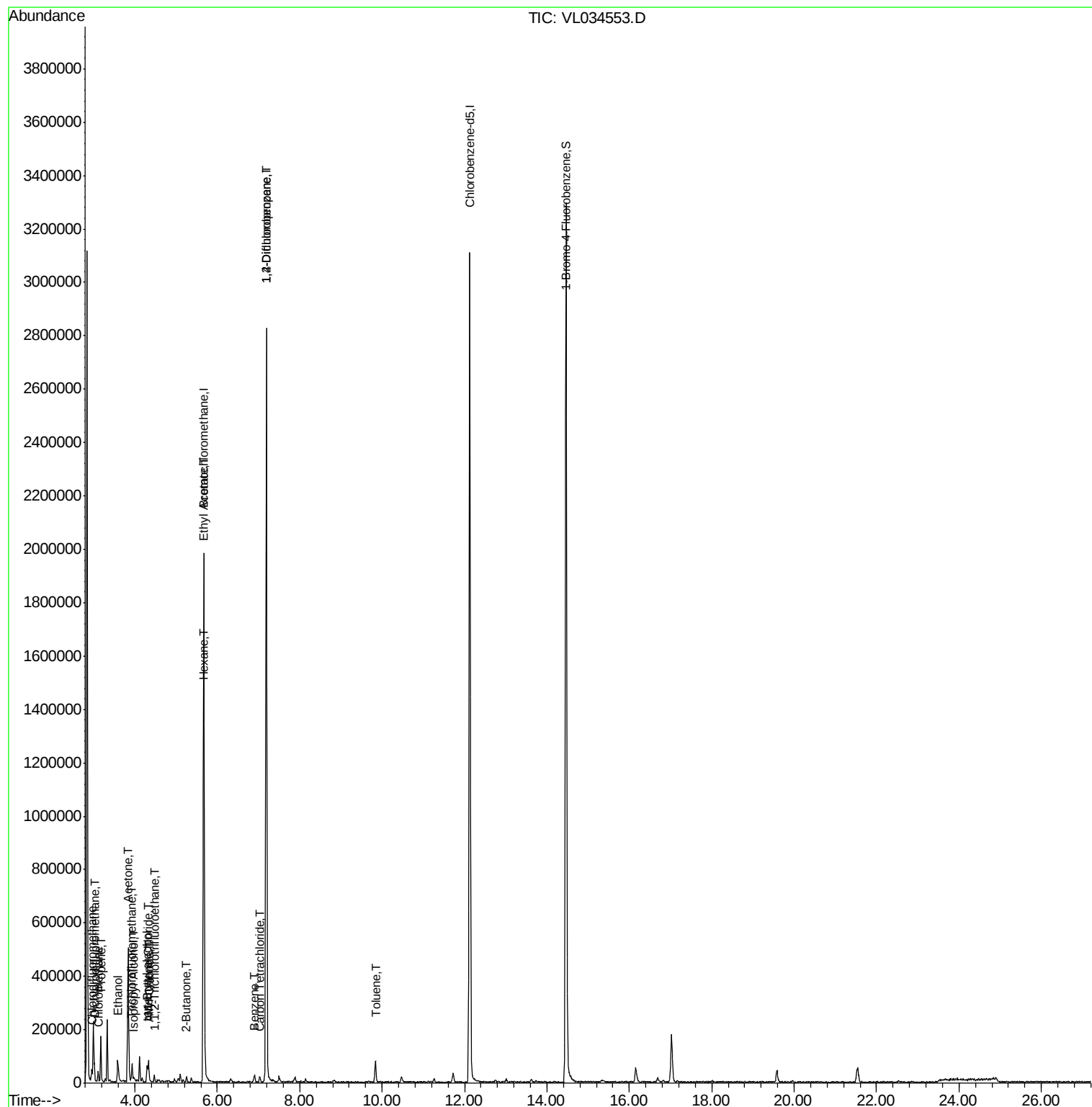
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	41722	0.304	ppbv #	78
3) Chlorodifluoromethane	2.95	51	38976	0.376	ppbv	94
4) Chloromethane	3.11	50	27983	0.454	ppbv	91
9) Propene	3.18	41	39839	0.997	ppbv	100
11) Trichlorofluoromethane	3.93	101	41049	0.258	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4135	0.041	ppbv #	13
13) Ethanol	3.58	45	83553	7.534	ppbv	100
15) Acetone	3.83	43	495726	3.904	ppbv	97
17) tert-Butyl alcohol	4.30	59	29762	0.293	ppbv #	82
19) Isopropyl Alcohol	3.96	45	4745	0.058	ppbv #	95
20) Methylene Chloride	4.33	84	20214	0.405	ppbv	97
21) Allyl Chloride	4.35	41	1547	0.021	ppbv #	1
25) Ethyl Acetate	5.68	43	12057	0.061	ppbv #	86
26) Hexane	5.69	57	22641	0.271	ppbv #	39
34) 2-Butanone	5.24	43	8322	0.066	ppbv #	55
35) Carbon Tetrachloride	7.03	117	6457	0.041	ppbv #	31
36) Benzene	6.90	78	6086	0.040	ppbv #	13
39) 1,2-Dichloropropane	7.19	63	521938	8.308	ppbv #	22
53) Toluene	9.84	91	19281	0.115	ppbv #	1

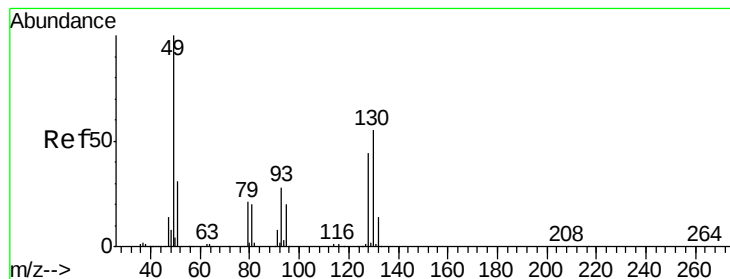
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

50-2

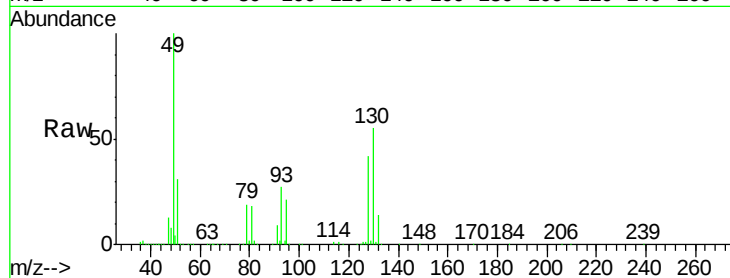
Tgt Ion: 49 Resp: 870157

Ion Ratio Lower Upper

49 100

128 43.6 22.4 67.2

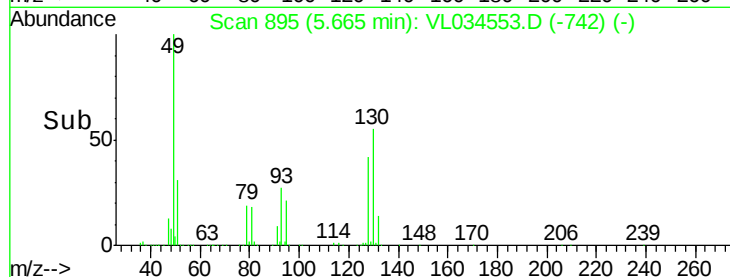
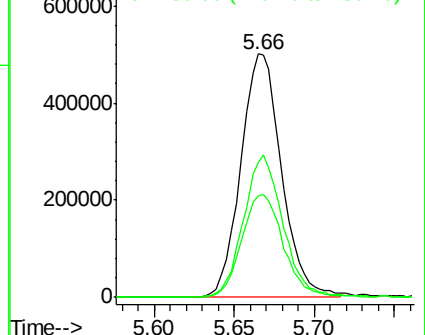
130 57.1 28.3 85.0



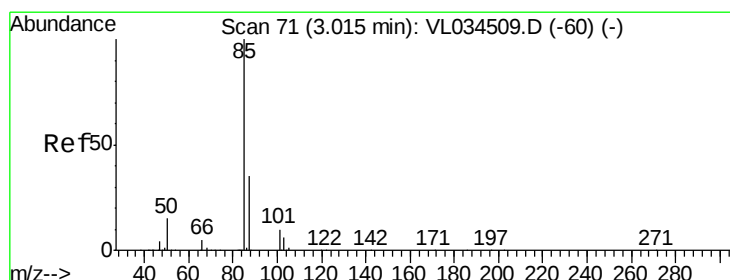
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Scan 895 (5.665 min): VL034553.D (-742) (-)



#2

Dichlorodifluoromethane

Concen: 0.304 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034553.D

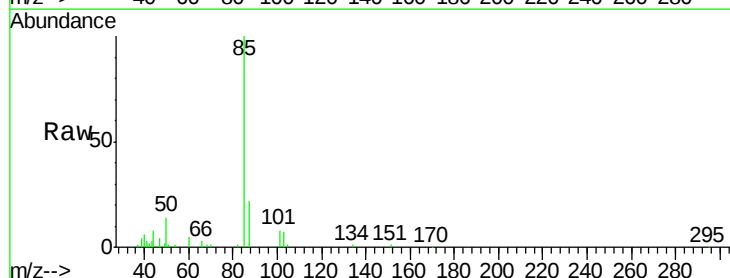
Acq: 2 Jan 2020 19:20

Tgt Ion: 85 Resp: 41722

Ion Ratio Lower Upper

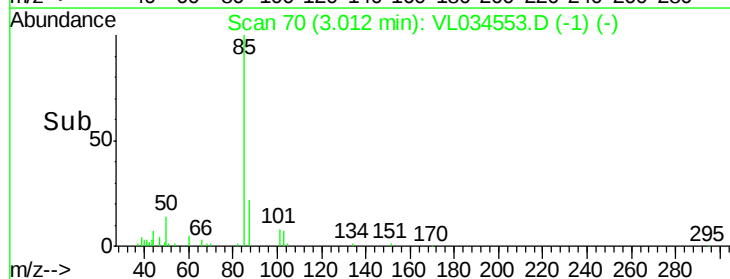
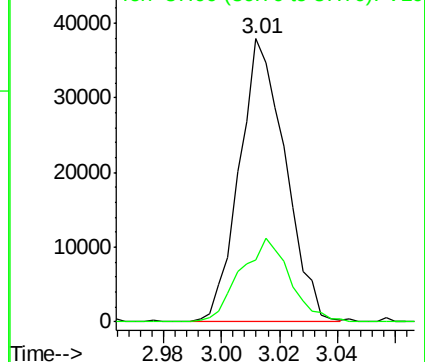
85 100

87 21.9 27.9 41.9#

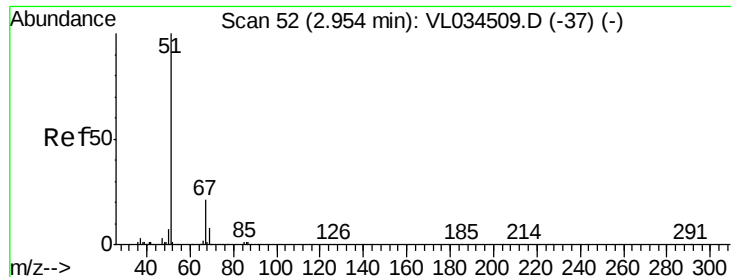


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Scan 70 (3.012 min): VL034553.D (-1) (-)



#3

Chlorodifluoromethane

Concen: 0.376 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

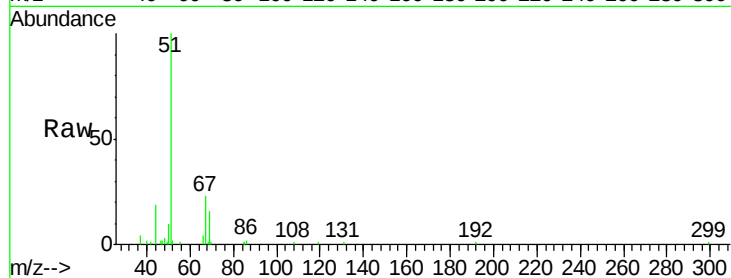
50-2

Tgt Ion: 51 Resp: 38976

Ion Ratio Lower Upper

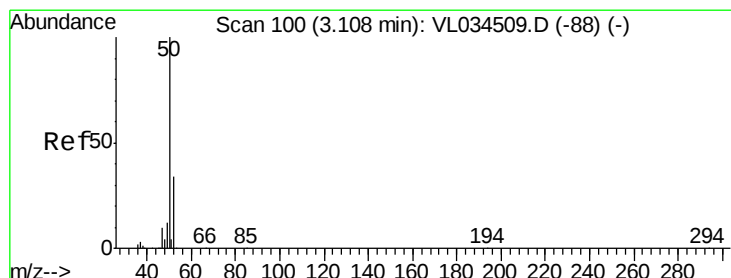
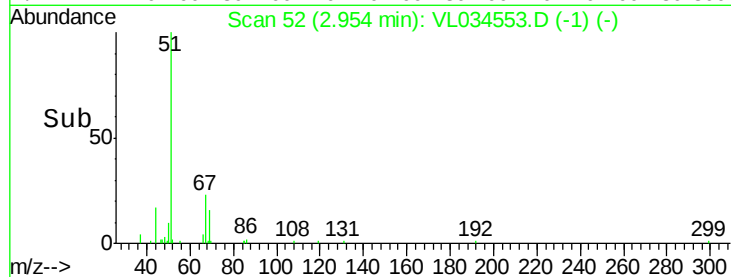
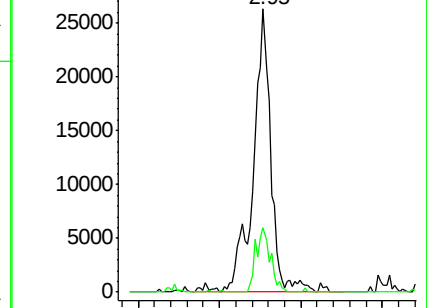
51 100

67 18.0 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.454 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034553.D

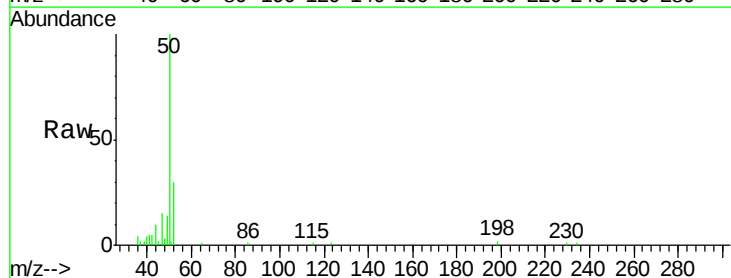
Acq: 2 Jan 2020 19:20

Tgt Ion: 50 Resp: 27983

Ion Ratio Lower Upper

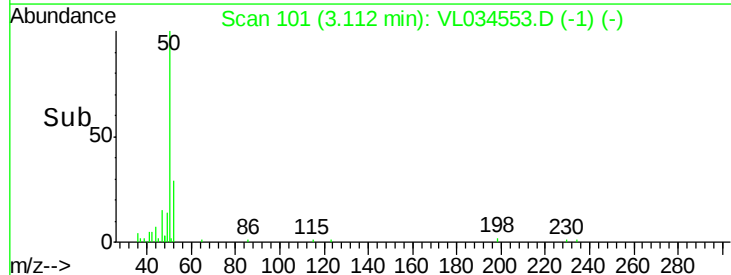
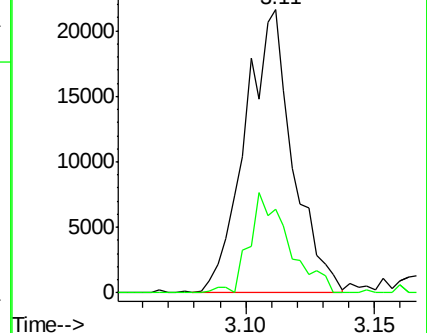
50 100

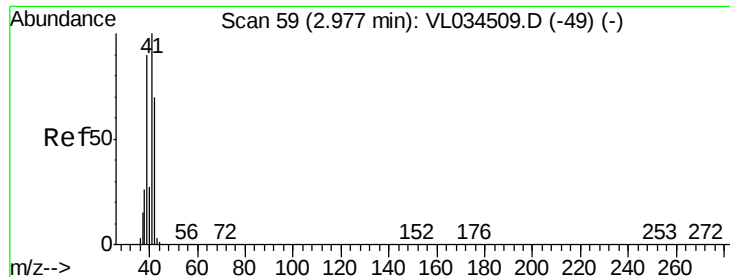
52 29.5 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.997 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

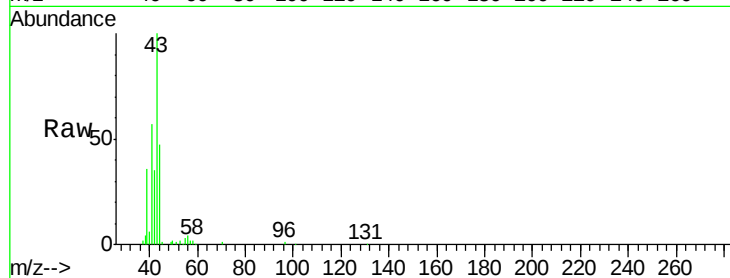
50-2

Tgt Ion: 41 Resp: 39839

Ion Ratio Lower Upper

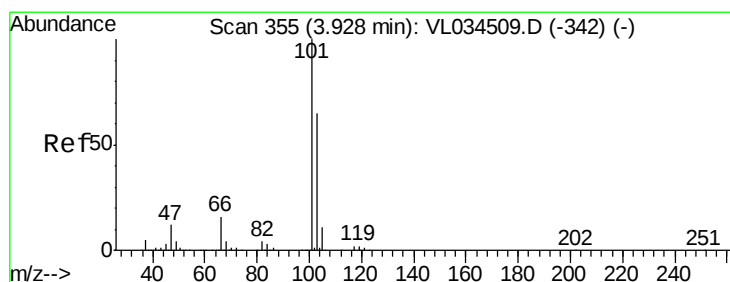
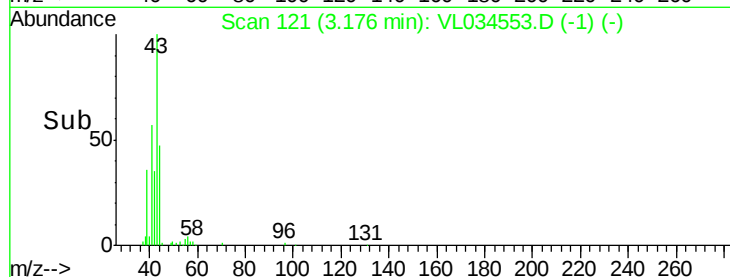
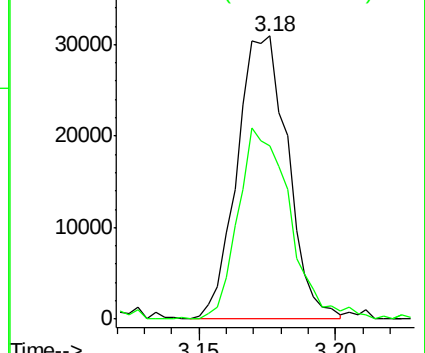
41 100

42 70.0 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL034553.D

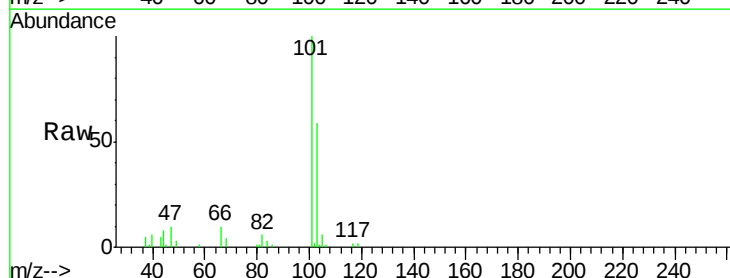
Acq: 2 Jan 2020 19:20

Tgt Ion: 101 Resp: 41049

Ion Ratio Lower Upper

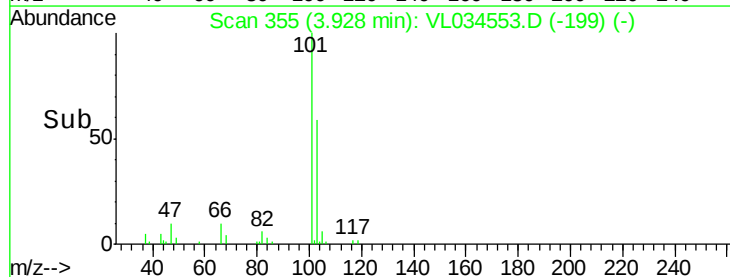
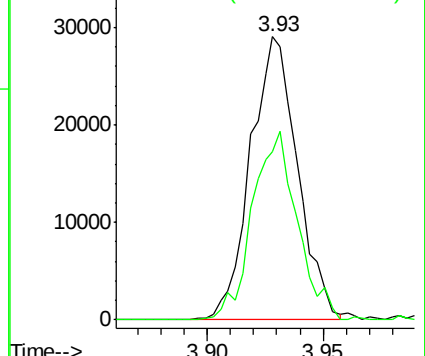
101 100

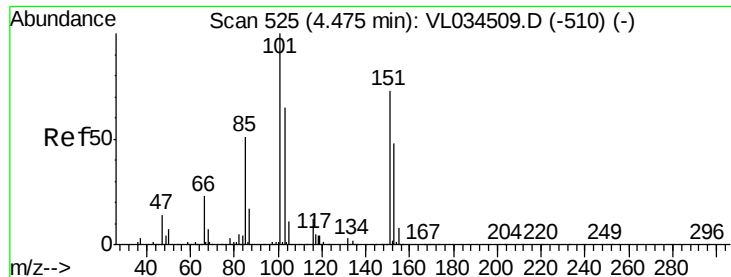
103 59.2 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.041 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

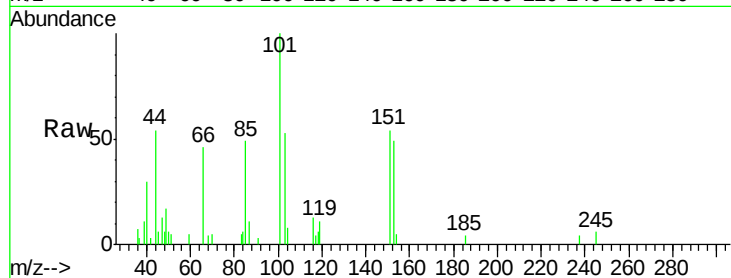
50-2

Tgt Ion: 101 Resp: 4135

Ion Ratio Lower Upper

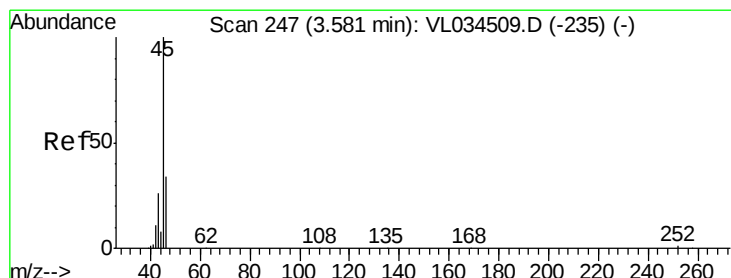
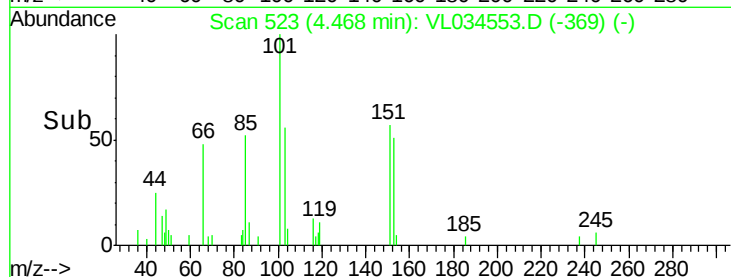
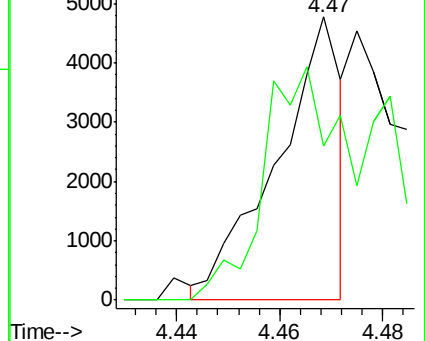
101 100

151 144.6 57.8 86.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 7.534 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.00 min

Lab File: VL034553.D

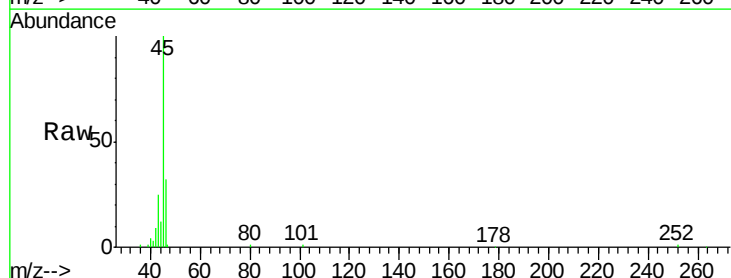
Acq: 2 Jan 2020 19:20

Tgt Ion: 45 Resp: 83553

Ion Ratio Lower Upper

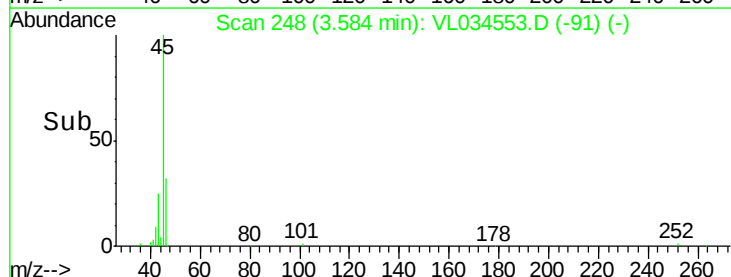
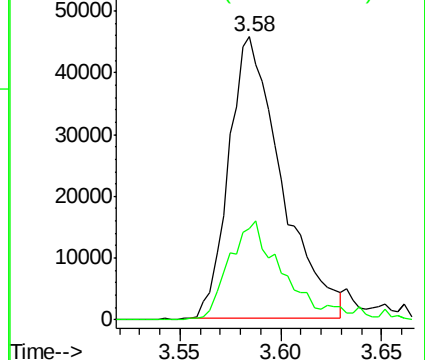
45 100

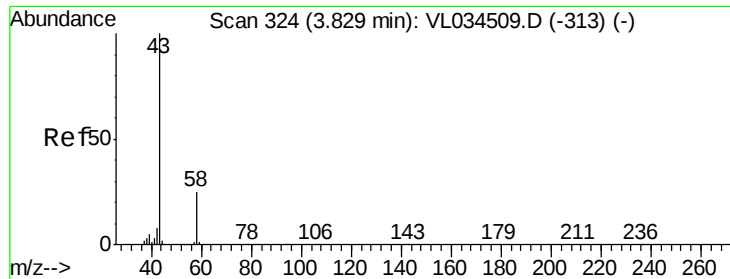
46 37.4 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.904 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

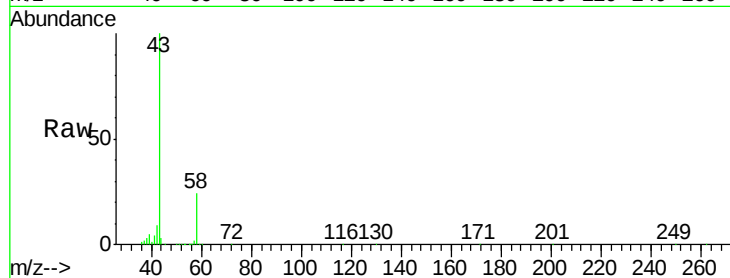
50-2

Tgt Ion: 43 Resp: 495726

Ion Ratio Lower Upper

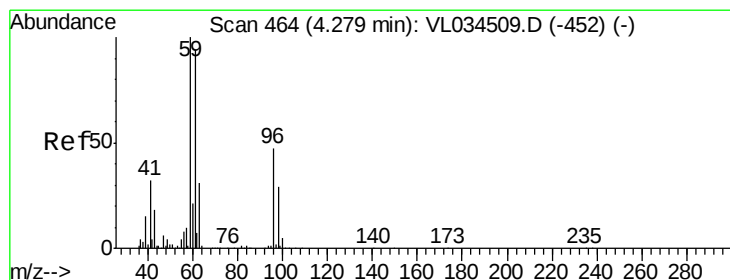
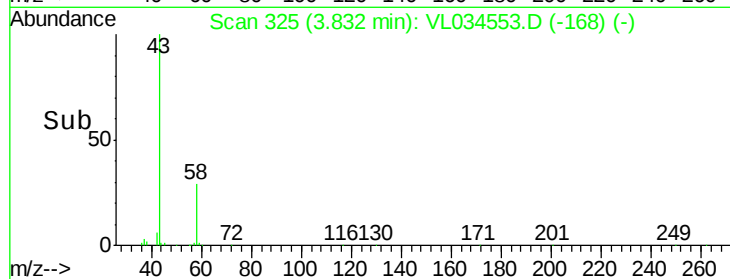
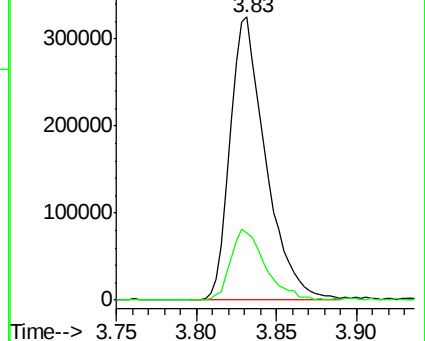
43 100

58 24.2 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.293 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL034553.D

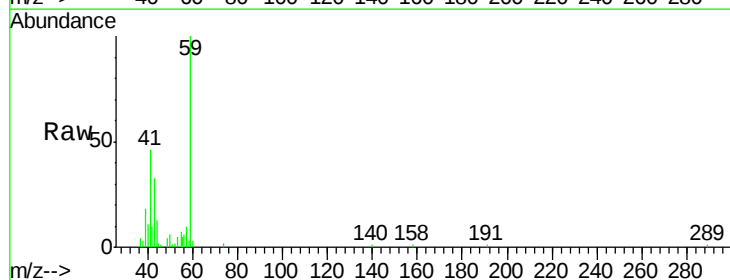
Acq: 2 Jan 2020 19:20

Tgt Ion: 59 Resp: 29762

Ion Ratio Lower Upper

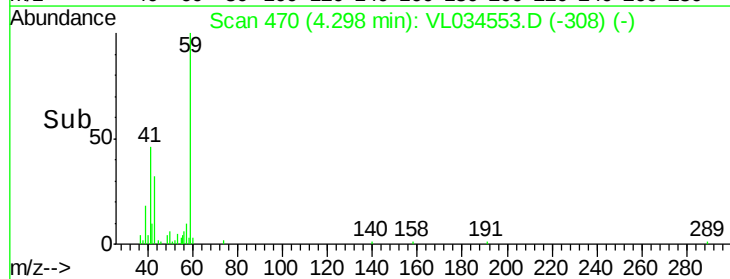
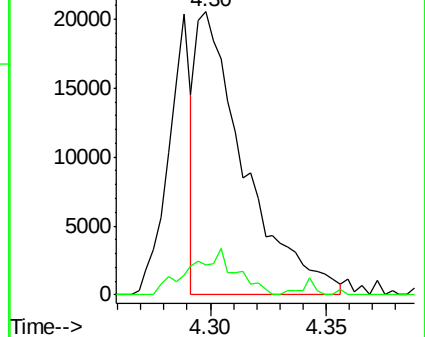
59 100

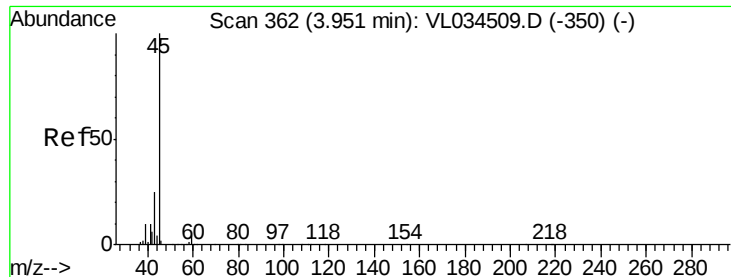
57 17.4 8.6 12.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

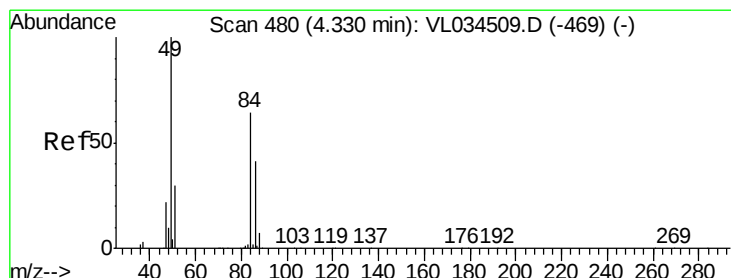
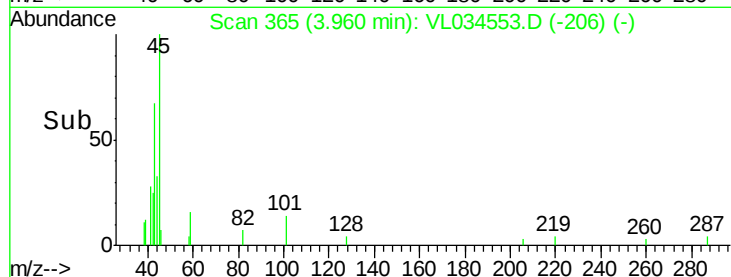
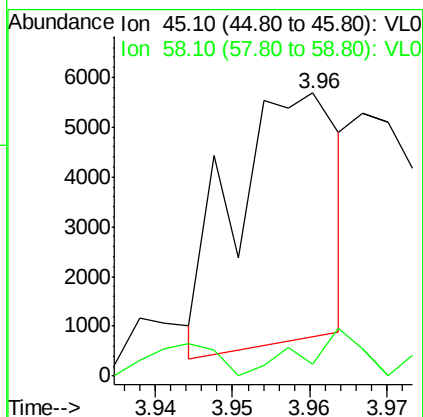
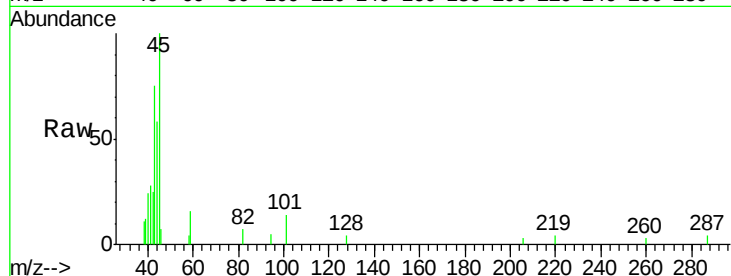




#19
Isopropyl Alcohol
Concen: 0.058 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

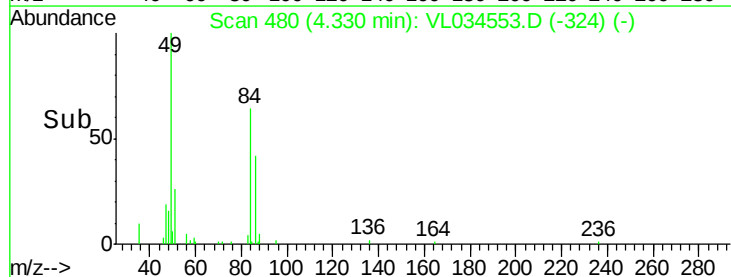
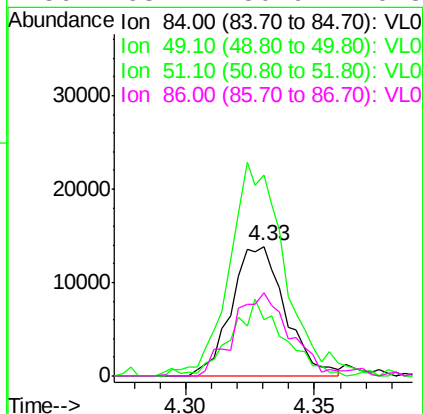
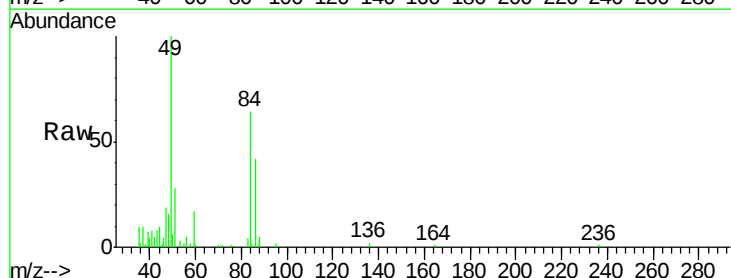
Instrument :
MSVOA_L
ClientSampleId :
50-2

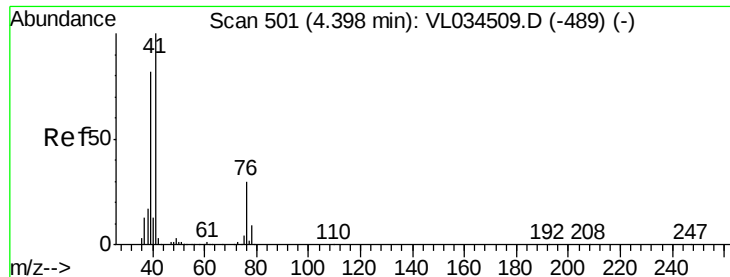
Tgt Ion: 45 Resp: 4745
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#



#20
Methylene Chloride
Concen: 0.405 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

Tgt Ion: 84 Resp: 20214
Ion Ratio Lower Upper
84 100
49 154.0 124.4 186.6
51 39.6 37.0 55.6
86 63.1 50.9 76.3





#21

Allyl Chloride

Concen: 0.021 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.05 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampled :

50-2

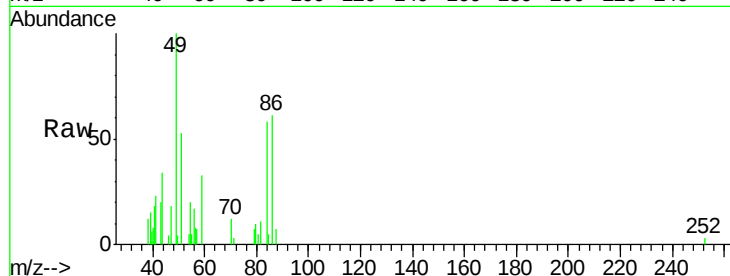
Tgt Ion: 41 Resp: 1547

Ion Ratio Lower Upper

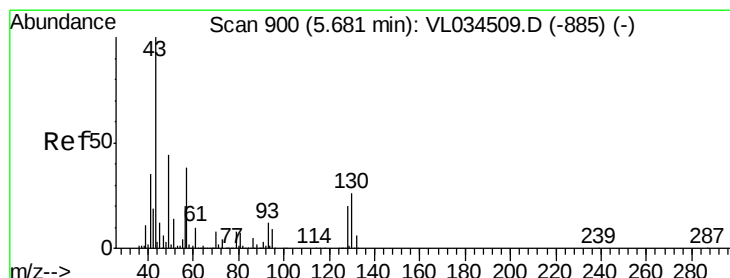
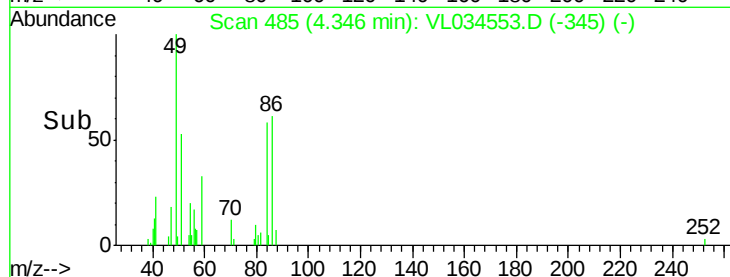
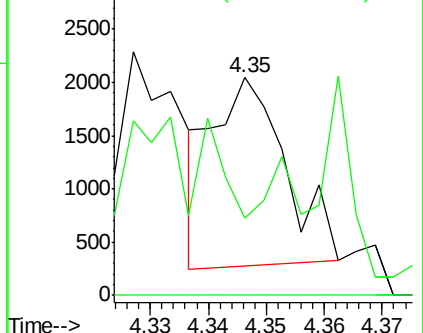
41 100

76 0.0 24.2 36.4#

39 225.9 65.8 98.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#25

Ethyl Acetate

Concen: 0.061 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Tgt Ion: 43 Resp: 12057

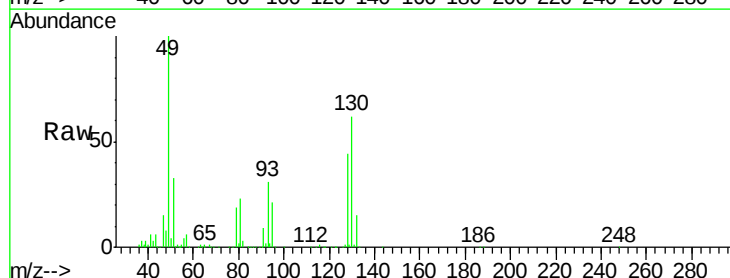
Ion Ratio Lower Upper

43 100

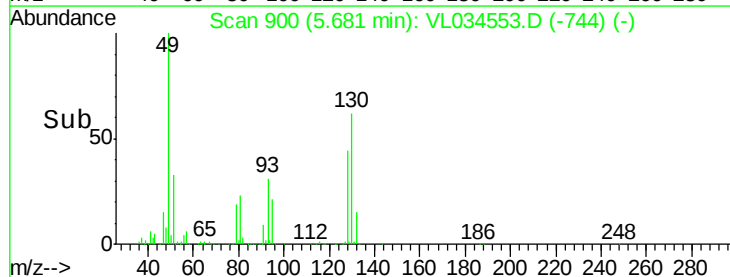
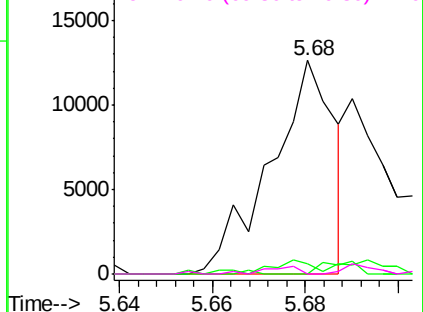
45 9.6 8.3 12.5

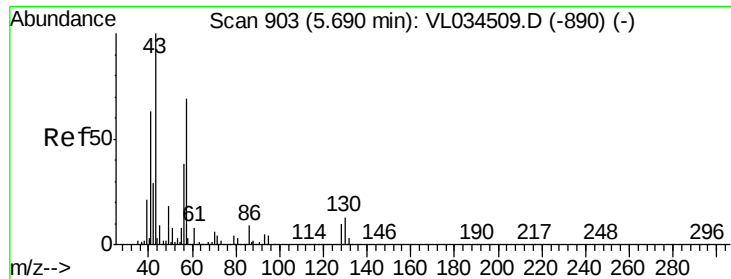
61 0.0 7.8 11.6#

70 2.3 5.8 8.8#



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

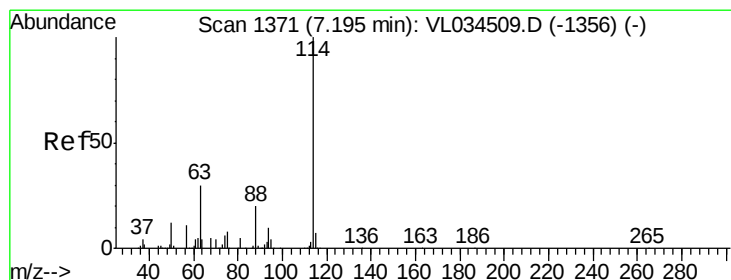
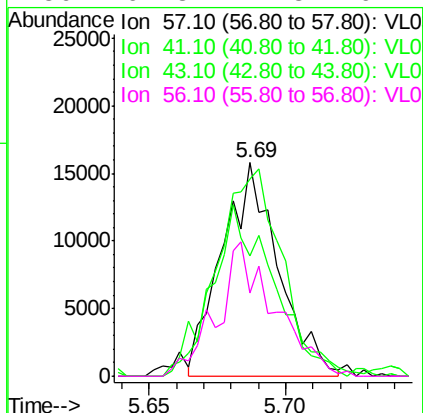
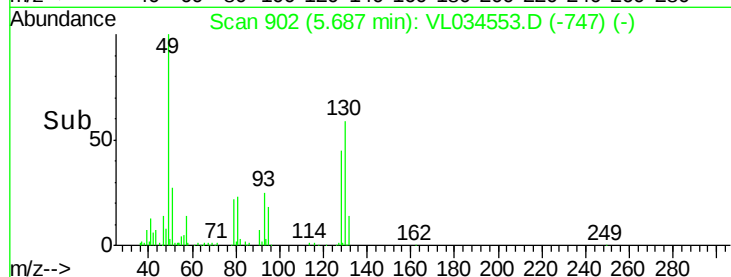
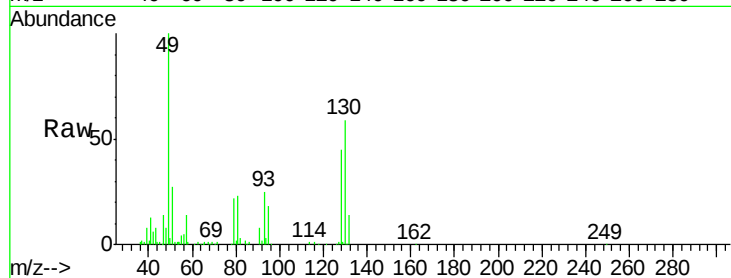




#26
Hexane
Concen: 0.271 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

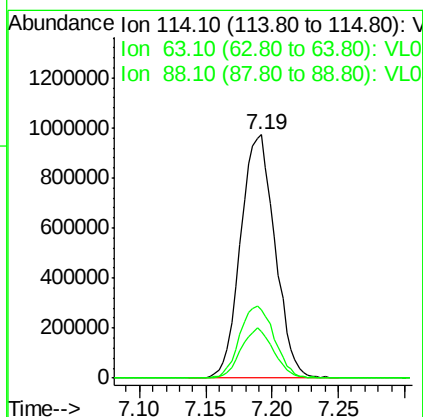
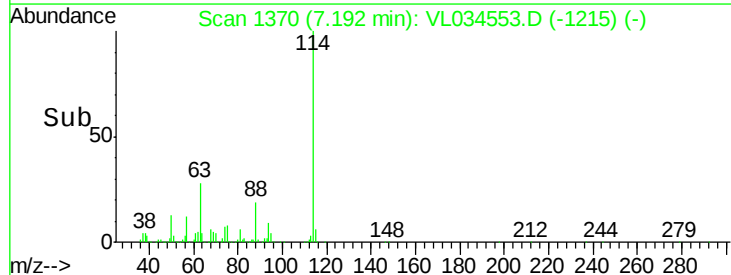
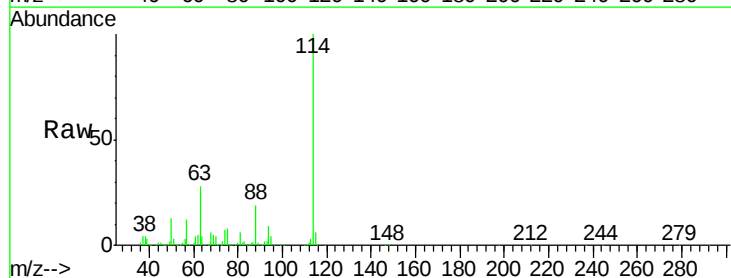
Instrument :
MSVOA_L
ClientSampled :
50-2

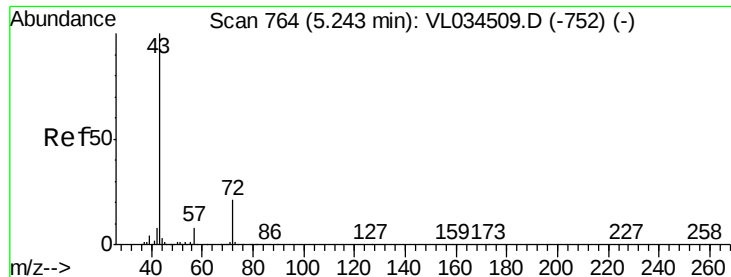
Tgt Ion: 57 Resp: 22641
Ion Ratio Lower Upper
57 100
41 113.8 75.3 112.9#
43 90.0 189.4 284.2#
56 64.3 42.8 64.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.00 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

Tgt Ion: 114 Resp: 1752604
Ion Ratio Lower Upper
114 100
63 30.1 24.1 36.1
88 19.4 15.7 23.5

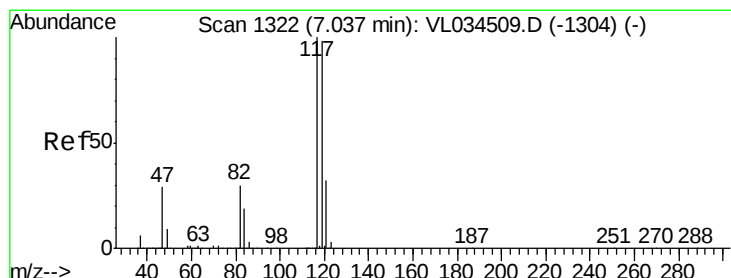
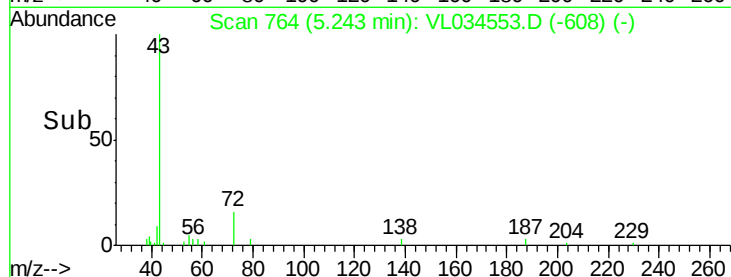
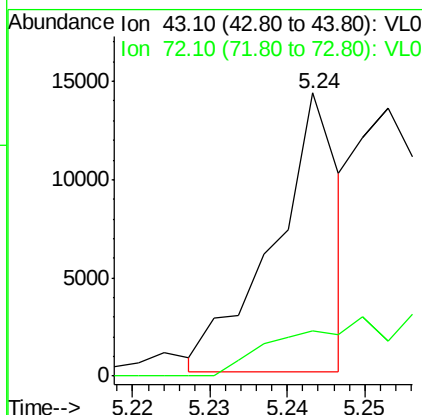
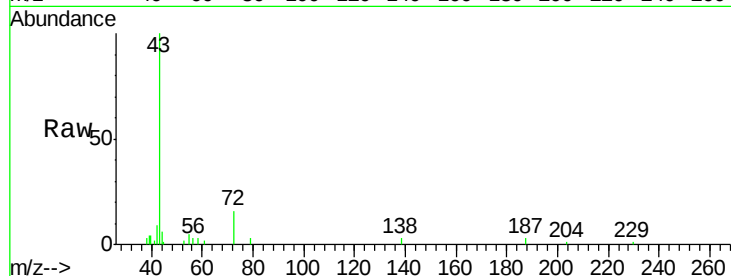




#34
2-Butanone
Concen: 0.066 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

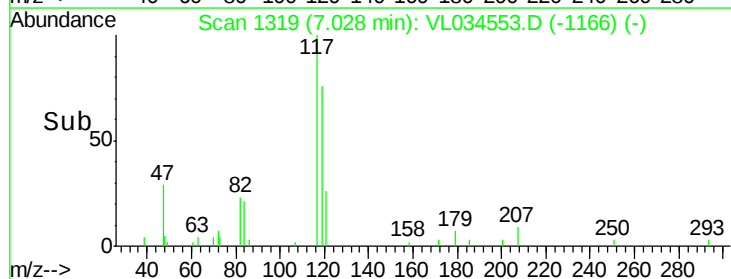
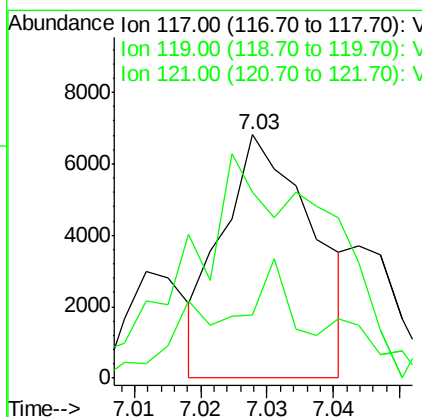
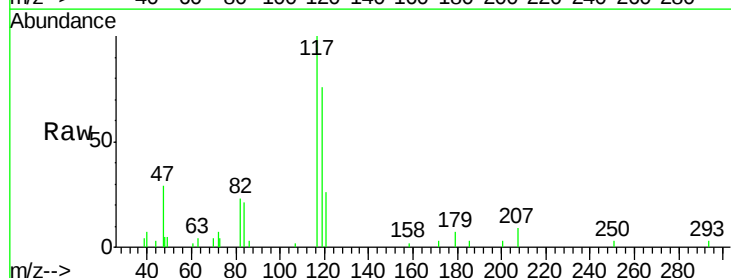
Instrument :
MSVOA_L
ClientSampled :
50-2

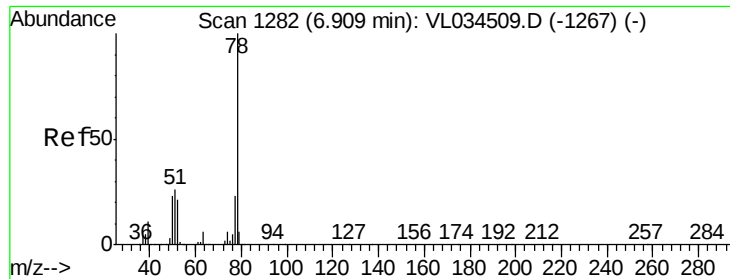
Tgt Ion: 43 Resp: 8322
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.4#



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. -0.01 min
Lab File: VL034553.D
Acq: 2 Jan 2020 19:20

Tgt Ion: 117 Resp: 6457
Ion Ratio Lower Upper
117 100
119 24.7 78.7 118.1#
121 2.0 25.9 38.9#





#36

Benzene

Concen: 0.040 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampled :

50-2

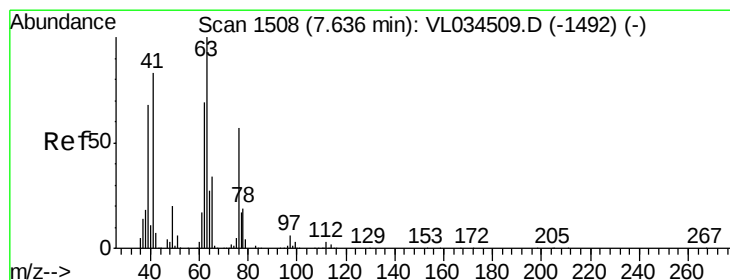
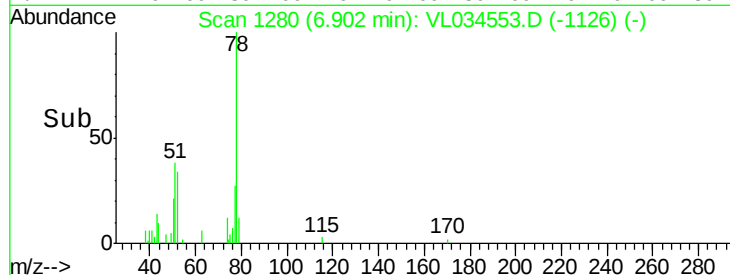
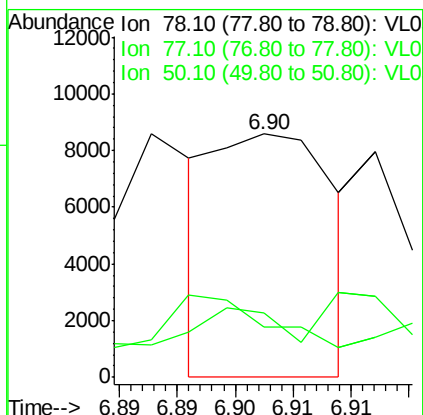
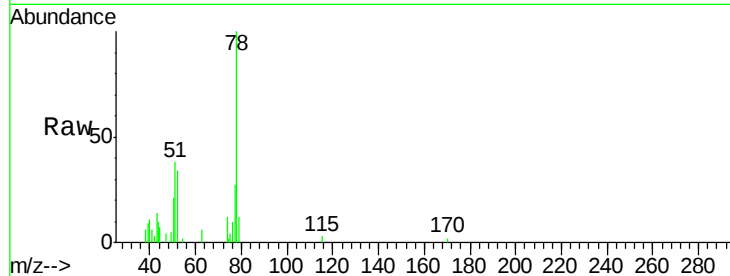
Tgt Ion: 78 Resp: 6086

Ion Ratio Lower Upper

78 100

77 64.6 18.6 28.0#

50 67.1 18.8 28.2#



#39

1,2-Dichloropropane

Concen: 8.308 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.45 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

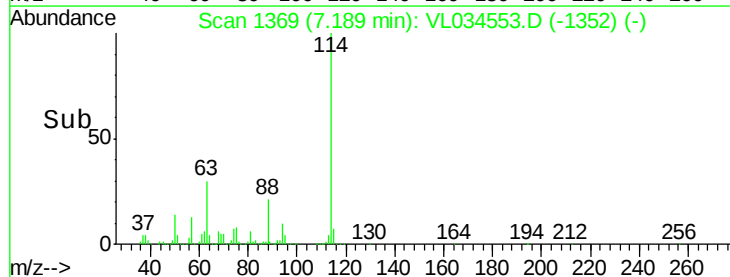
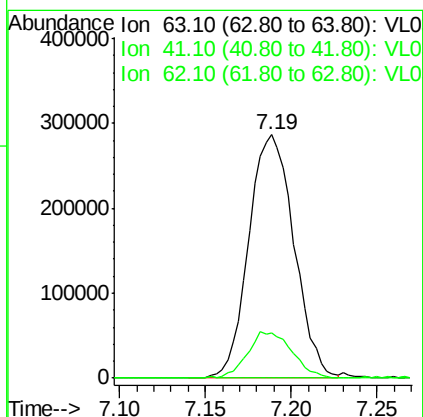
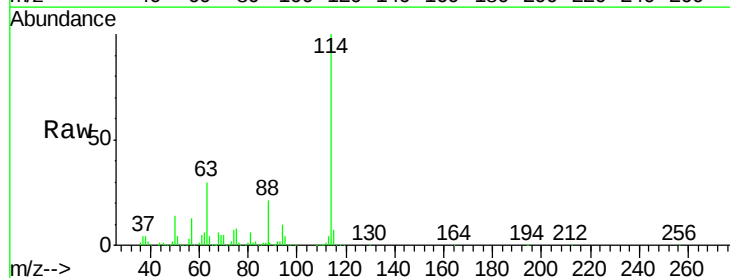
Tgt Ion: 63 Resp: 521938

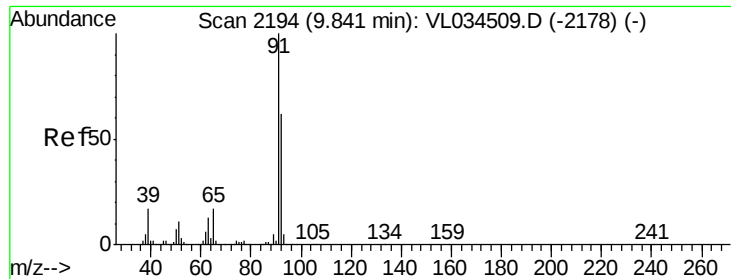
Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 18.5 54.9 82.3#





#53

Toluene

Concen: 0.115 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

Instrument :

MSVOA_L

ClientSampleId :

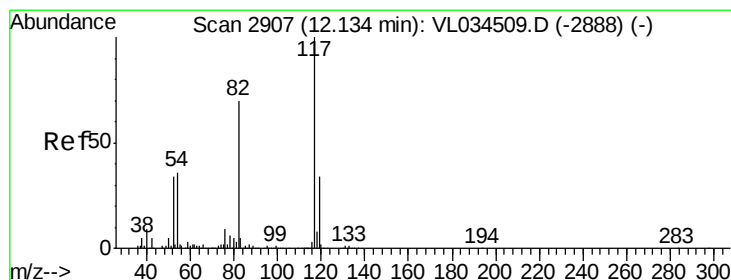
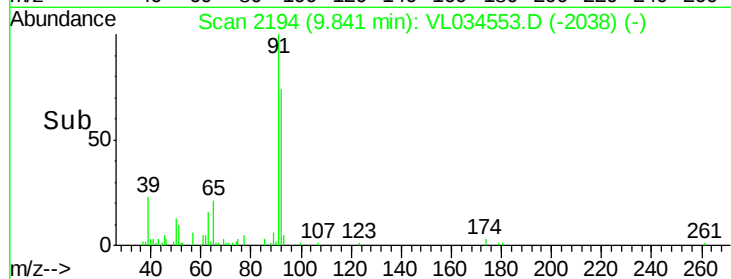
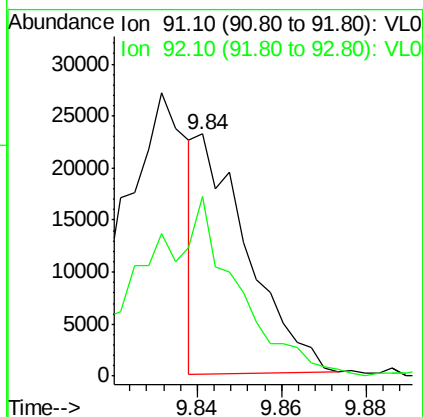
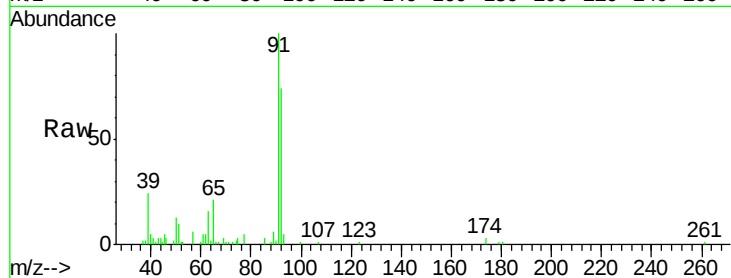
50-2

Tgt Ion: 91 Resp: 19281

Ion Ratio Lower Upper

91 100

92 152.1 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL034553.D

Acq: 2 Jan 2020 19:20

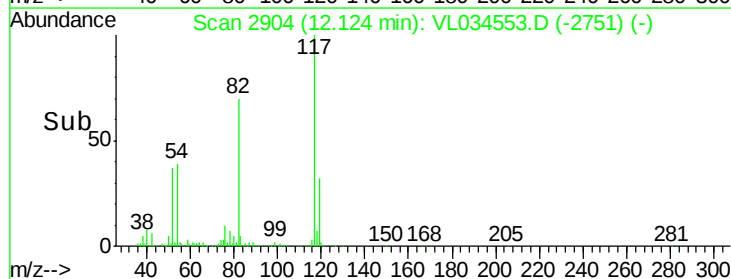
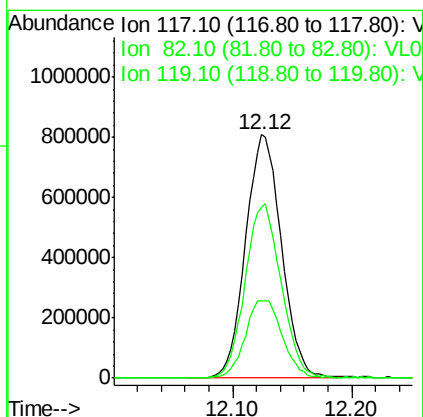
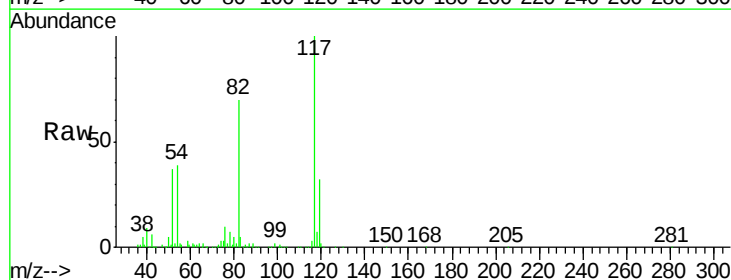
Tgt Ion: 117 Resp: 1686068

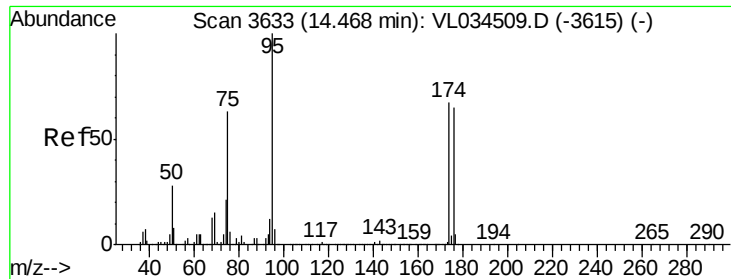
Ion Ratio Lower Upper

117 100

82 72.2 56.2 84.4

119 33.4 27.1 40.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.185 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. -0.01 min
 Lab File: VL034553.D
 Acq: 2 Jan 2020 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 50-2

Tgt Ion: 95 Resp: 1432932
 Ion Ratio Lower Upper
 95 100
 174 64.6 52.4 78.6
 175 4.6 3.9 5.9

