

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036614.D
 Acq On : 31 Mar 2021 23:20
 Operator : SY/AP
 Sample : M1807-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:30:57 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	1606937	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3763579	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3468194	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2692778	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

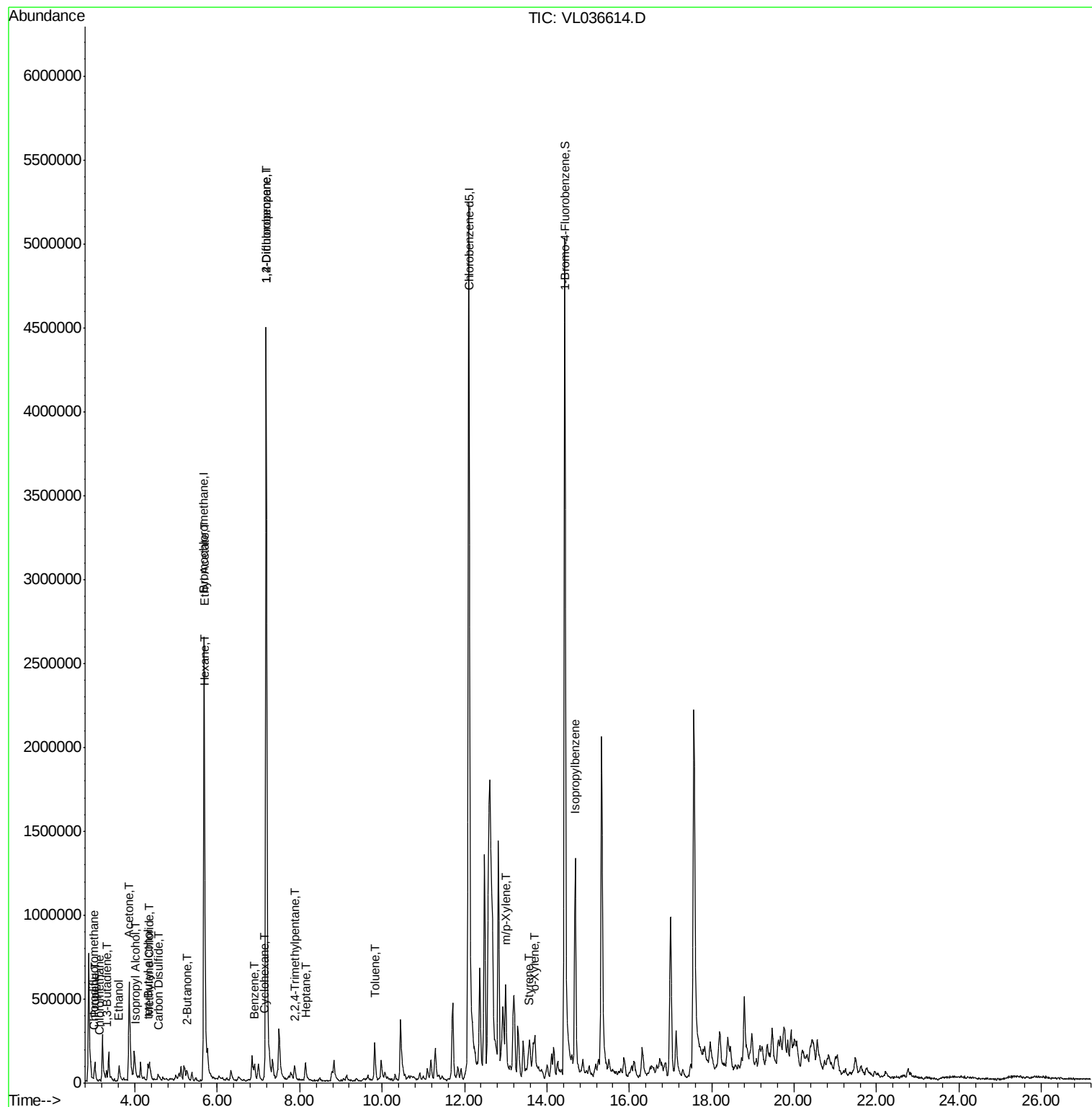
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	17064	0.057 ppbv #	90
4) Chloromethane	3.15	50	5305	0.050 ppbv #	82
9) Propene	3.01	41	24697	0.258 ppbv #	14
10) Heptane	8.13	43	23240	0.095 ppbv #	30
13) Ethanol	3.61	45	127028	11.145 ppbv	97
15) Acetone	3.86	43	854862	5.405 ppbv	99
16) 1,3-Butadiene	3.33	39	4306	0.039 ppbv	97
17) tert-Butyl alcohol	4.32	59	67225	0.488 ppbv #	79
19) Isopropyl Alcohol	4.02	45	17281	0.199 ppbv #	89
20) Methylene Chloride	4.35	84	17531	0.237 ppbv	94
25) Ethyl Acetate	5.69	43	16220	0.043 ppbv #	77
26) Hexane	5.70	57	49363	0.283 ppbv #	47
27) Carbon Disulfide	4.56	76	42476	0.247 ppbv #	78
30) Cyclohexane	7.14	84	3226	0.023 ppbv #	1
34) 2-Butanone	5.26	43	53730	0.292 ppbv #	50
36) Benzene	6.90	78	36715	0.106 ppbv	94
39) 1,2-Dichloropropane	7.19	63	1009793	7.172 ppbv #	22
44) 2,2,4-Trimethylpentane	7.88	57	17636	0.029 ppbv #	1
53) Toluene	9.82	91	167183	0.452 ppbv	91
59) m/p-Xylene	13.01	91	11312	0.026 ppbv #	32
60) o-Xylene	13.71	91	22167	0.052 ppbv #	63
61) Styrene	13.55	104	37926	0.177 ppbv #	78
62) Isopropylbenzene	14.69	105	1144628	1.997 ppbv	100

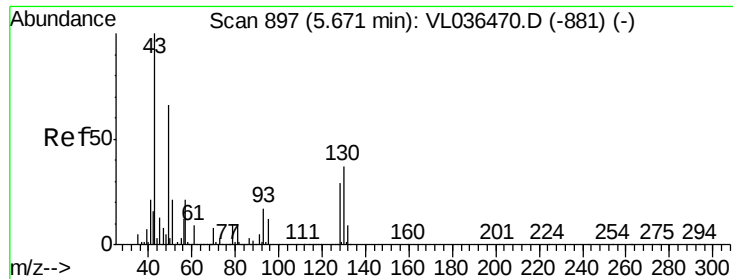
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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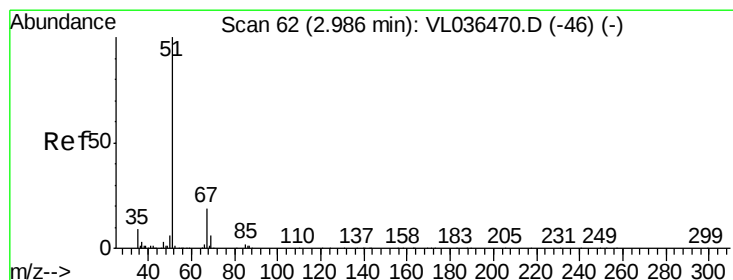
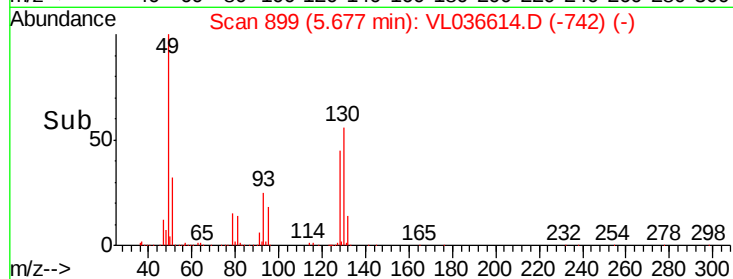
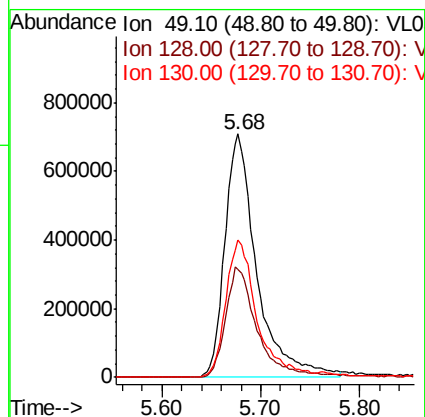
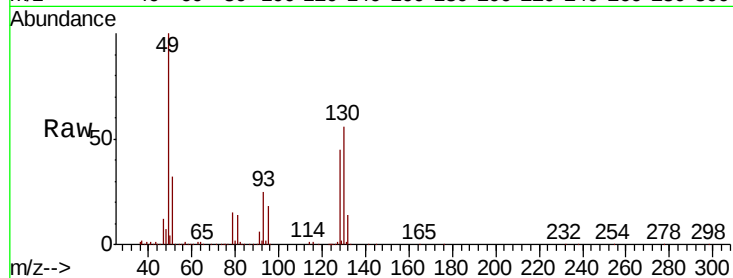




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

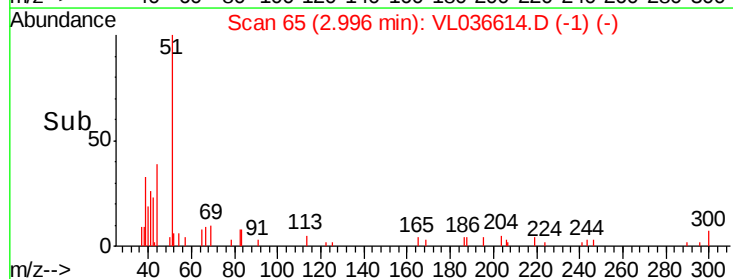
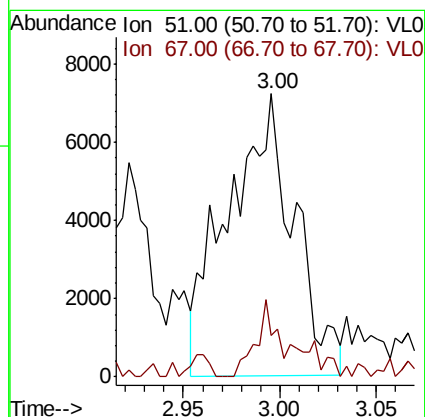
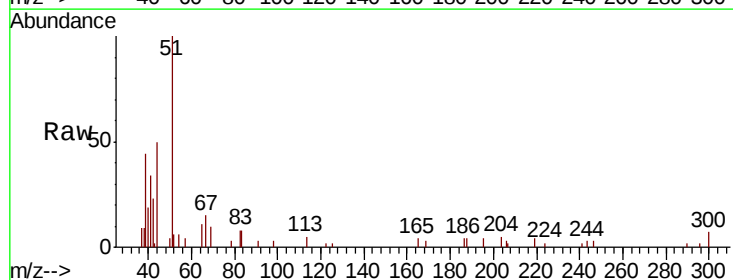
Instrument :
MSVOA_L
ClientSampleId :

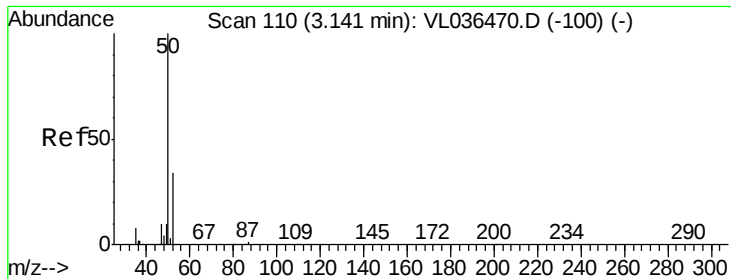
Tot Ion: 49 Resp: 1606937
Ion Ratio Lower Upper
49 100
128 45.3 23.5 70.6
130 58.2 29.1 87.4



#3
Chlorodifluoromethane
Concen: 0.057 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 51 Resp: 17064
Ion Ratio Lower Upper
51 100
67 13.8 14.7 22.1#





#4

Chloromethane

Concen: 0.050 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

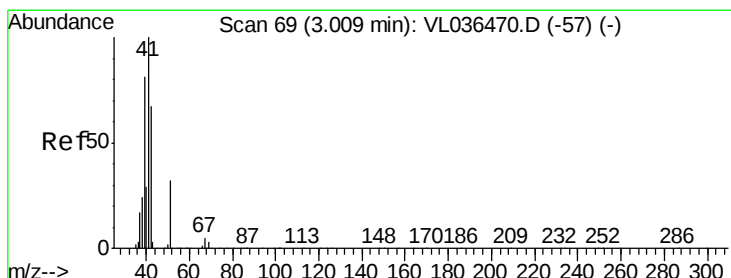
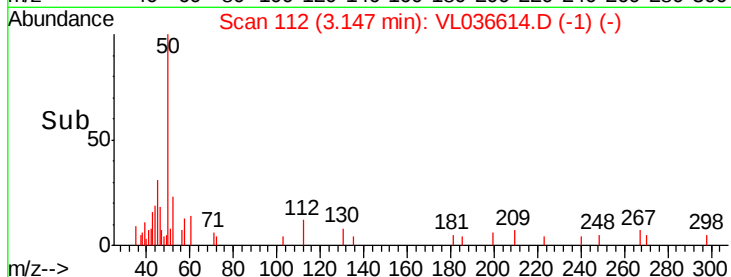
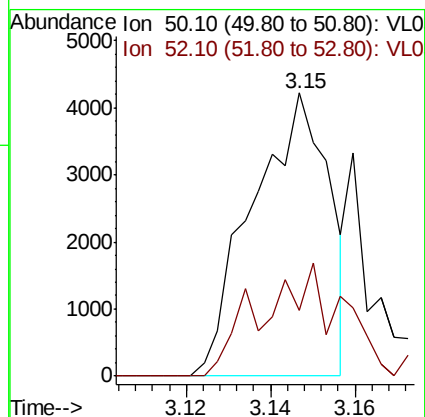
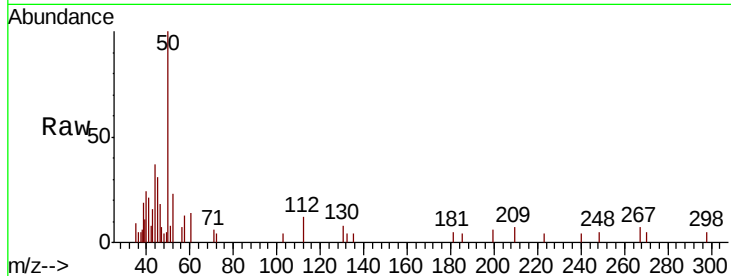
ClientSampled :

Tot Ion: 50 Resp: 5305

Ion Ratio Lower Upper

50 100

52 23.4 27.0 40.6#



#9

Propene

Concen: 0.258 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036614.D

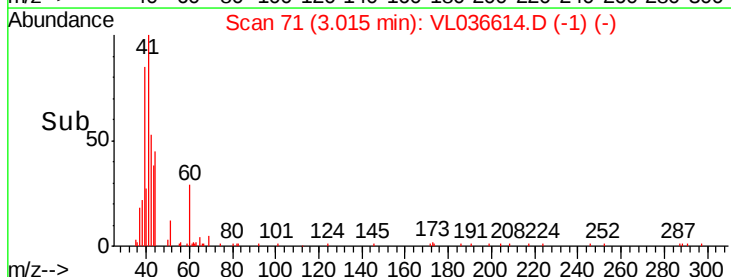
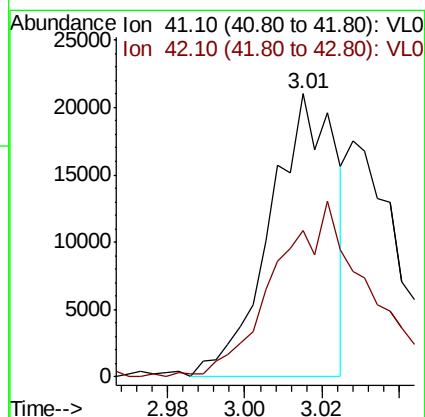
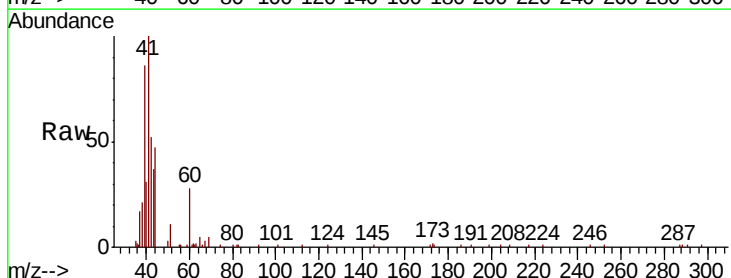
Acq: 31 Mar 2021 23:20

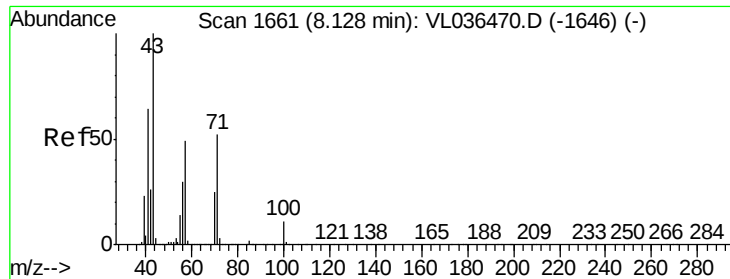
Tgt Ion: 41 Resp: 24697

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.4#

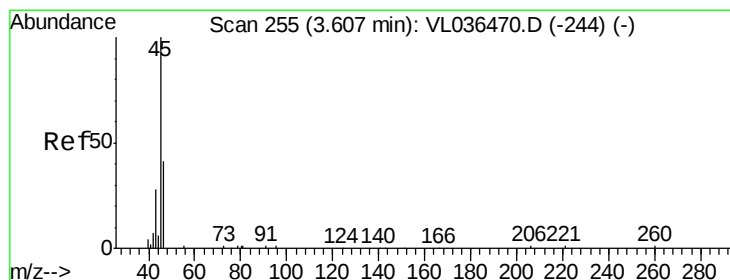
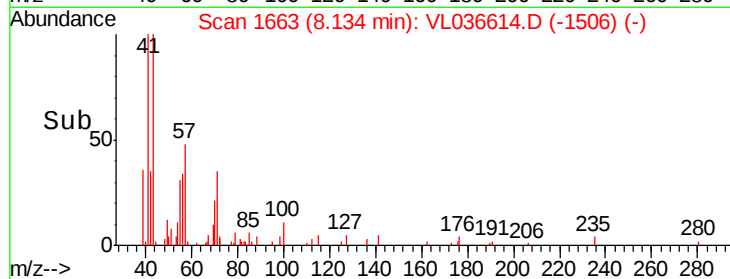
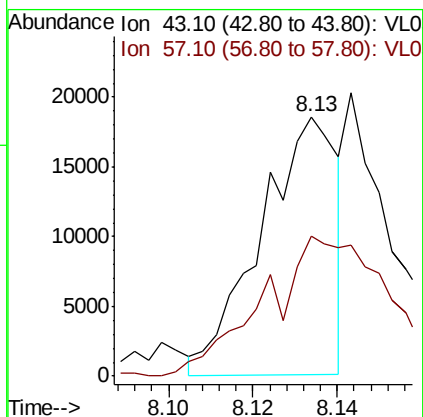
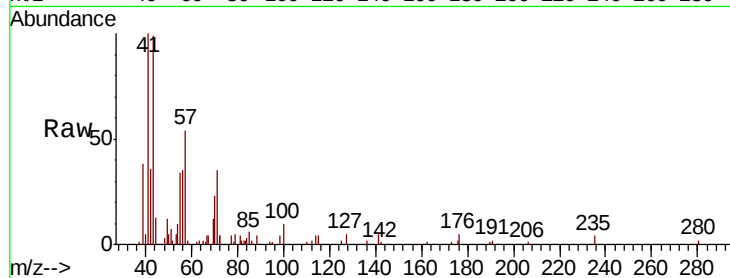




#10
Heptane
Concen: 0.095 ppbv
RT: 8.13 min Scan# 1663
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

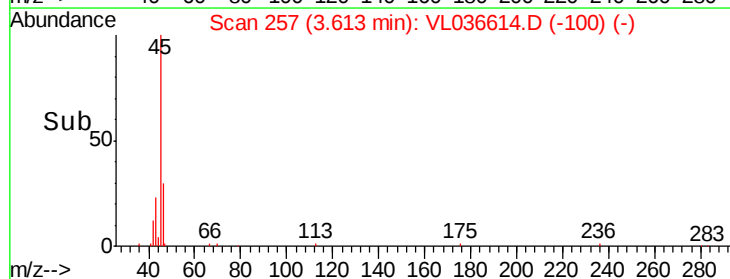
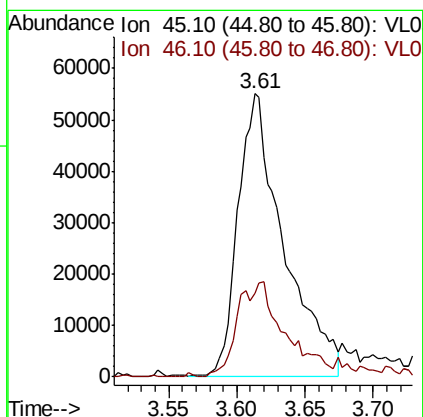
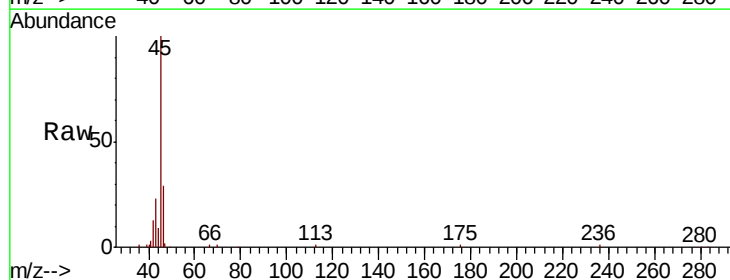
Instrument :
MSVOA_L
ClientSampleId :

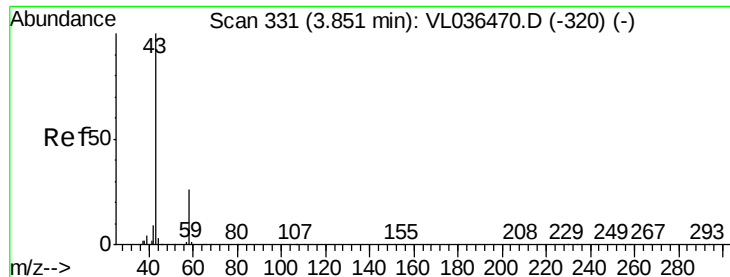
Tot Ion: 43 Resp: 23240
Ion Ratio Lower Upper
43 100
57 96.2 39.0 58.6#



#13
Ethanol
Concen: 11.145 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 45 Resp: 127028
Ion Ratio Lower Upper
45 100
46 39.6 16.6 66.2





#15

Acetone

Concen: 5.405 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

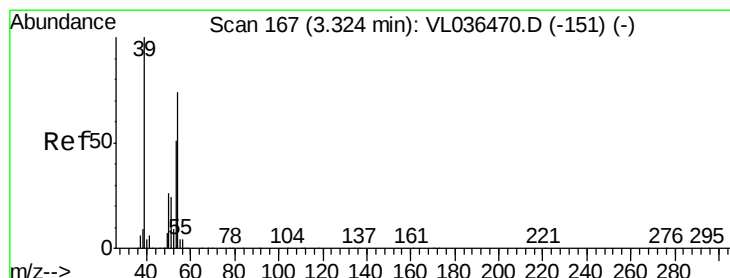
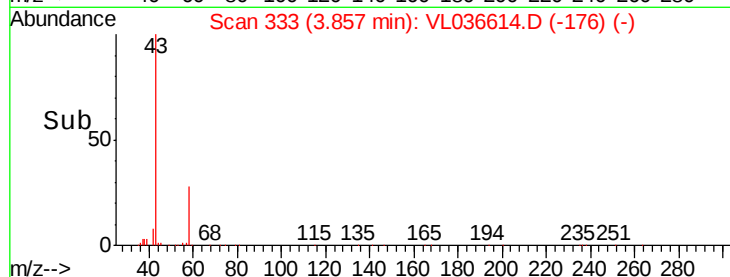
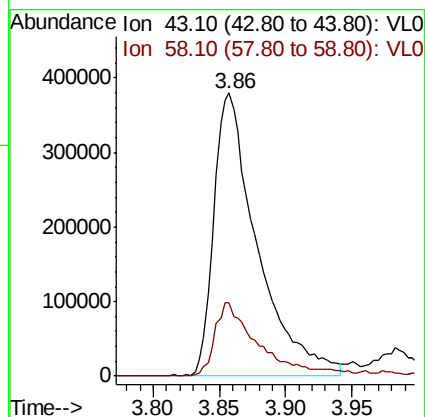
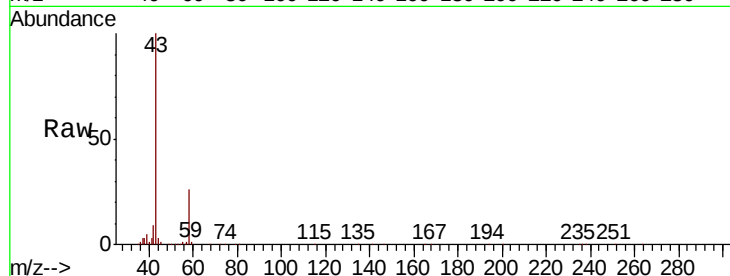
ClientSampleId :

Tot Ion: 43 Resp: 854862

Ion Ratio Lower Upper

43 100

58 26.8 21.2 31.8



#16

1,3-Butadiene

Concen: 0.039 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL036614.D

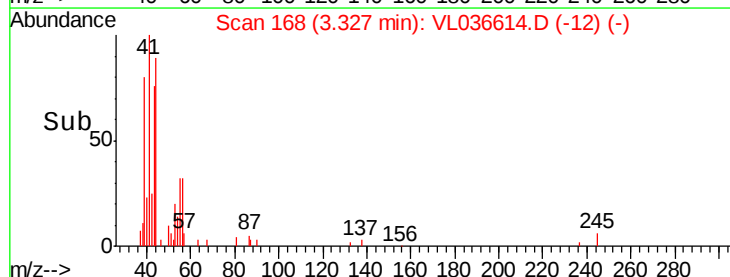
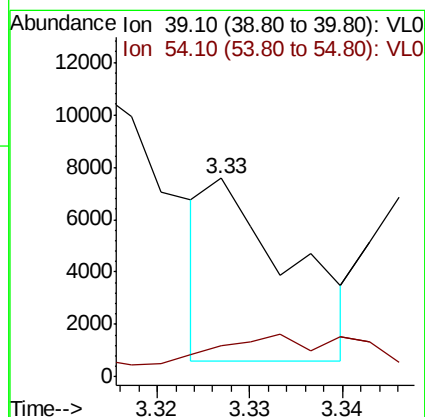
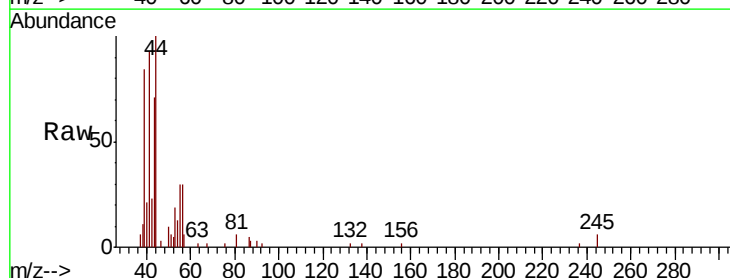
Acq: 31 Mar 2021 23:20

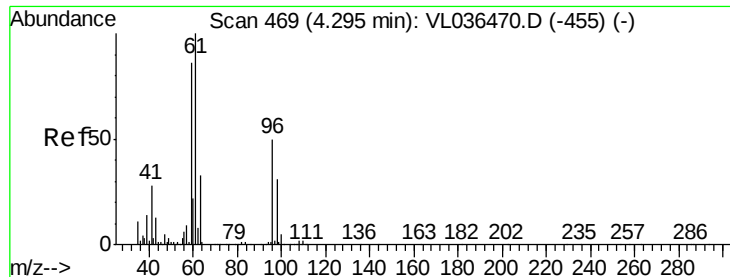
Tgt Ion: 39 Resp: 4306

Ion Ratio Lower Upper

39 100

54 71.3 58.8 88.2



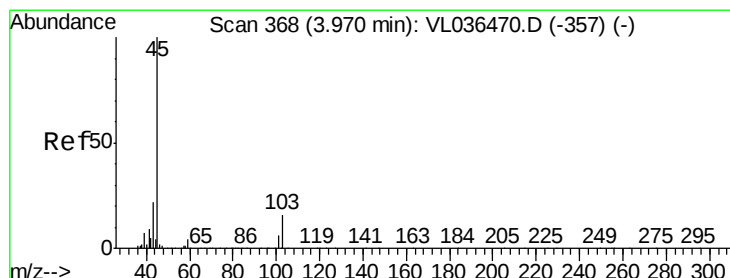
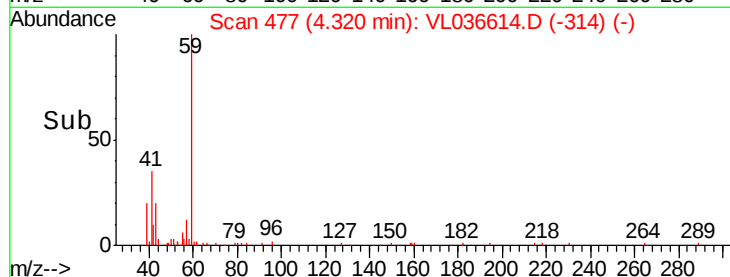
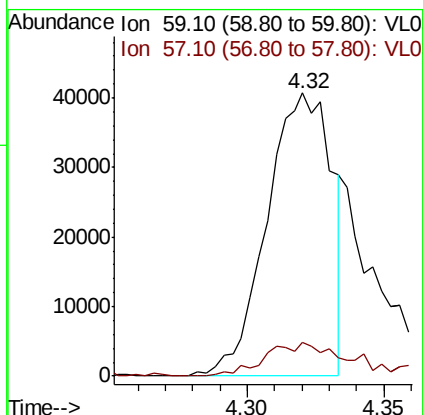
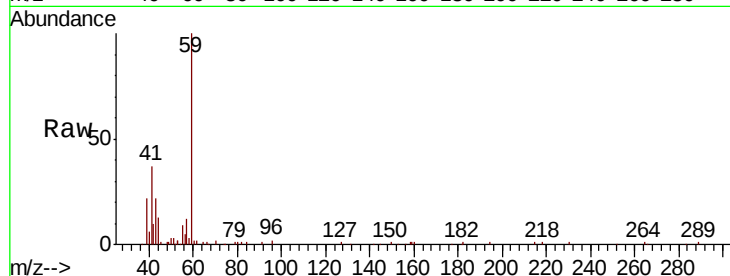


#17

tert-Butyl alcohol
Concen: 0.488 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.03 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :

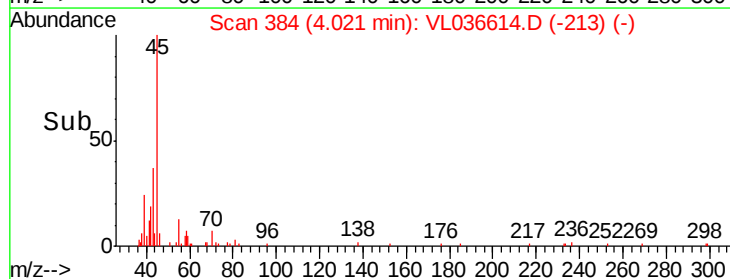
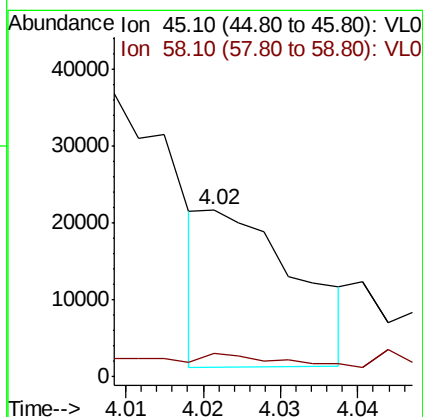
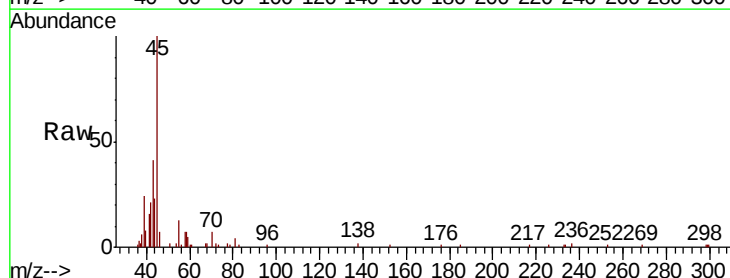
Tot Ion: 59 Resp: 67225
Ion Ratio Lower Upper
59 100
57 18.7 8.6 12.8#

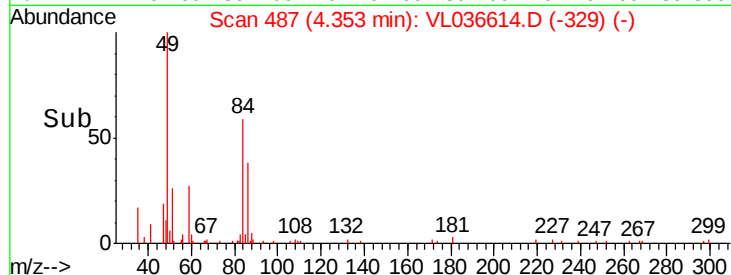
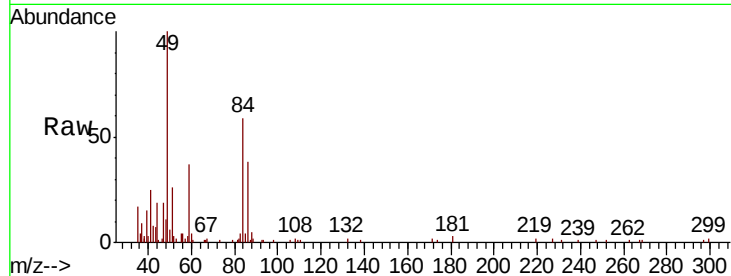
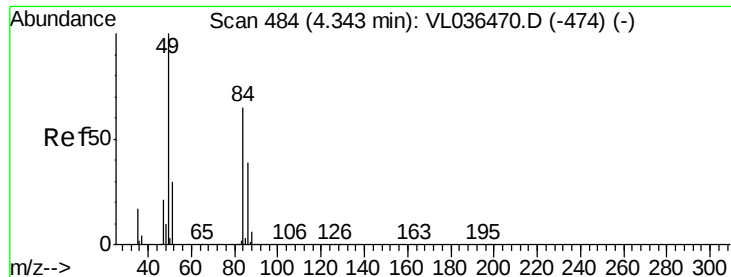


#19

Isopropyl Alcohol
Concen: 0.199 ppbv
RT: 4.02 min Scan# 384
Delta R.T. 0.05 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

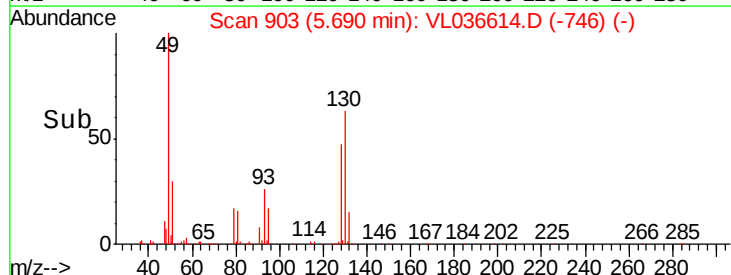
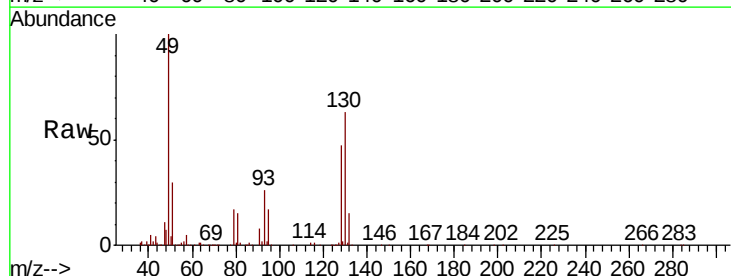
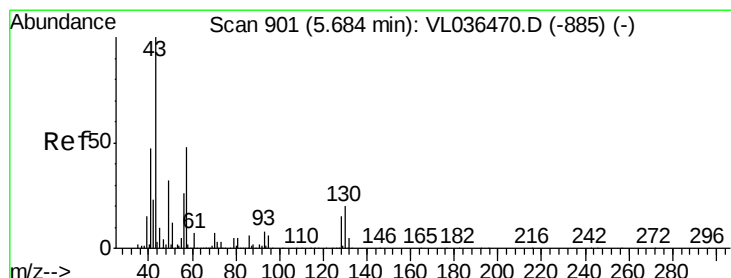
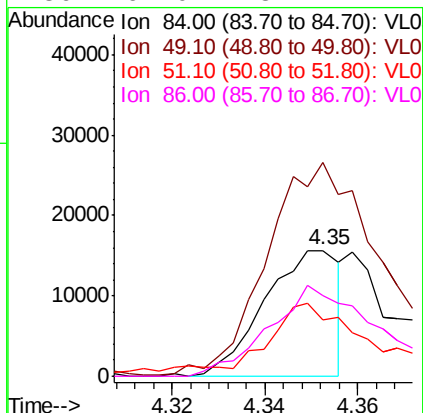
Tgt Ion: 45 Resp: 17281
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#





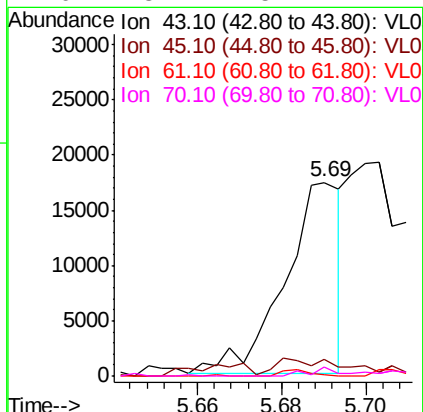
#20
Methvlene Chloride
Concen: 0.237 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

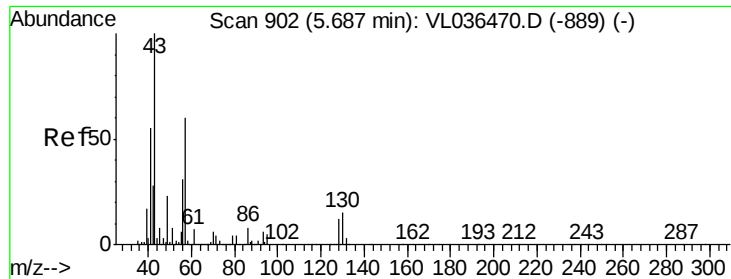
Tot Ion:	84	Resp:	17531
Ion	Ratio	Lower	Upper
84	100		
49	160.2	122.9	184.3
51	40.2	36.9	55.3
86	64.0	48.2	72.4



#25
Ethyl Acetate
Concen: 0.043 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion:	43	Resp:	16220
Ion	Ratio	Lower	Upper
43	100		
45	24.0	7.9	11.9#
61	2.0	7.4	11.2#
70	5.7	5.1	7.7

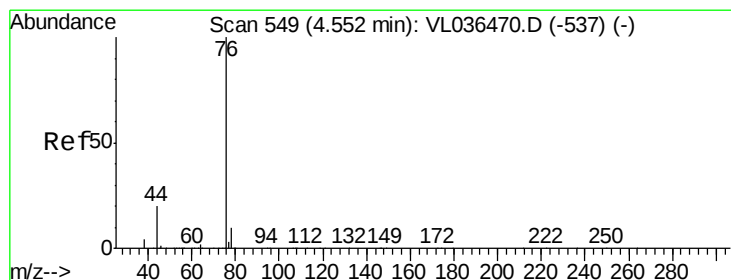
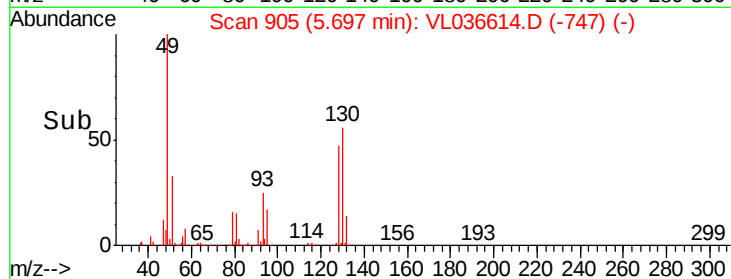
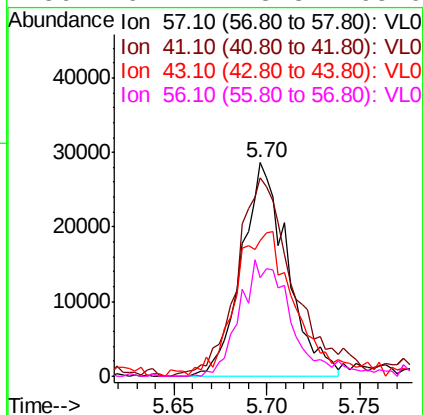
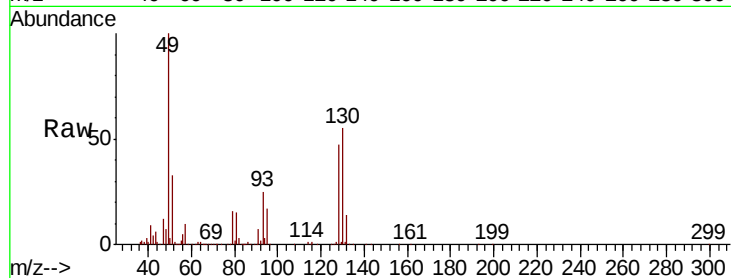




#26
Hexane
Concen: 0.283 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

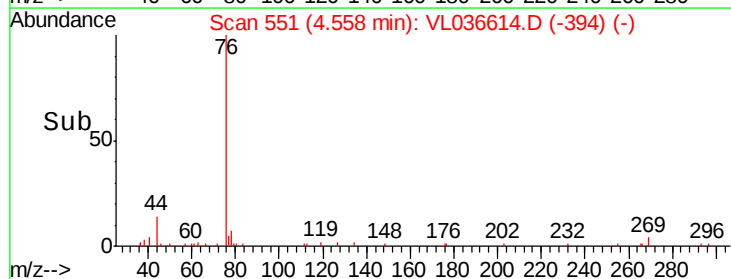
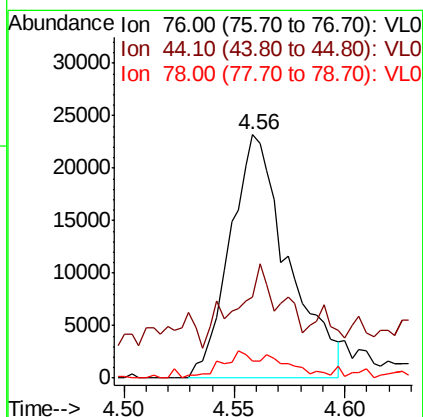
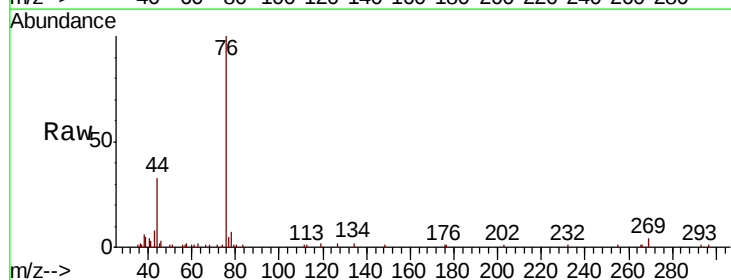
Instrument :
MSVOA_L
ClientSampled :

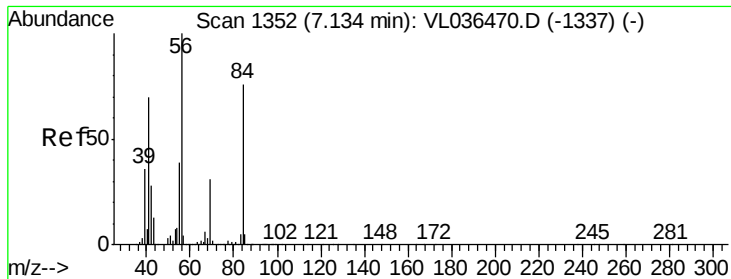
Tot Ion: 57 Resp: 49363
Ion Ratio Lower Upper
57 100
41 120.4 77.2 115.8#
43 94.8 173.8 260.6#
56 61.7 43.8 65.6



#27
Carbon Disulfide
Concen: 0.247 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 76 Resp: 42476
Ion Ratio Lower Upper
76 100
44 35.3 17.5 26.3#
78 14.3 8.6 13.0#

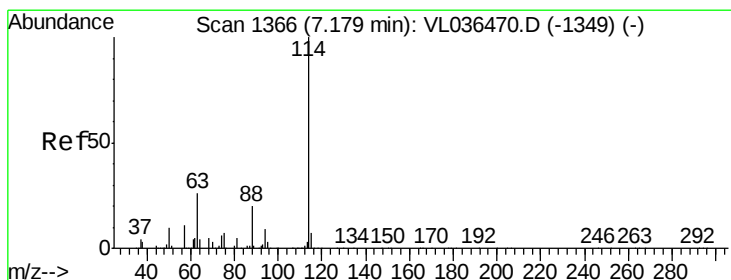
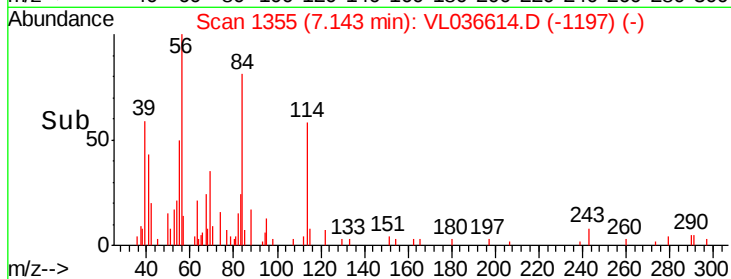
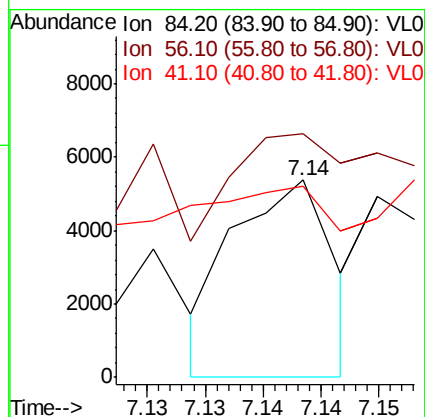
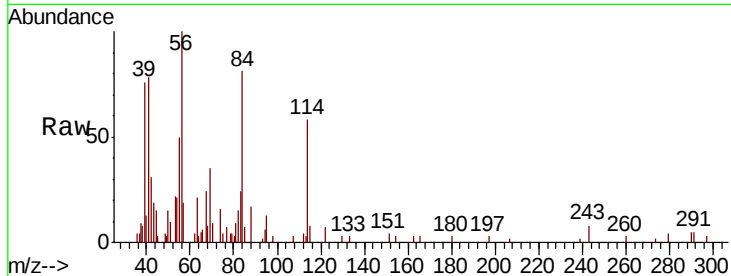




#30
Cyclohexane
Concen: 0.023 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

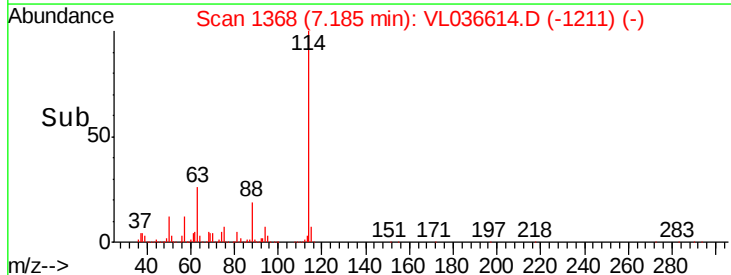
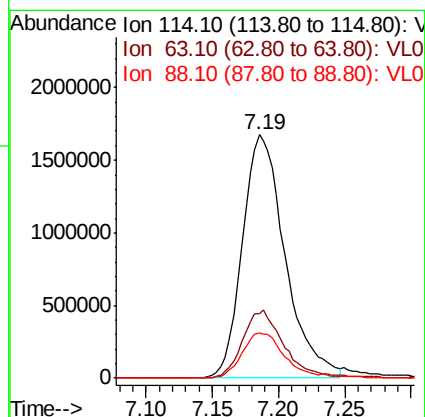
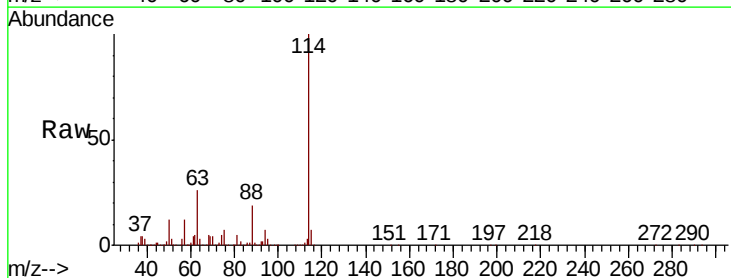
Instrument :
MSVOA_L
ClientSampleId :

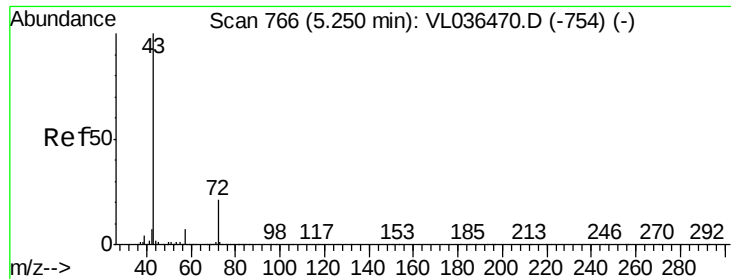
Tot Ion: 84 Resp: 3226
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 0.0 75.3 112.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 114 Resp: 3763579
Ion Ratio Lower Upper
114 100
63 27.7 22.4 33.6
88 19.2 15.4 23.0

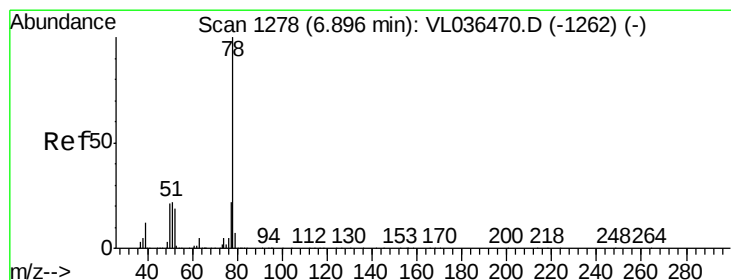
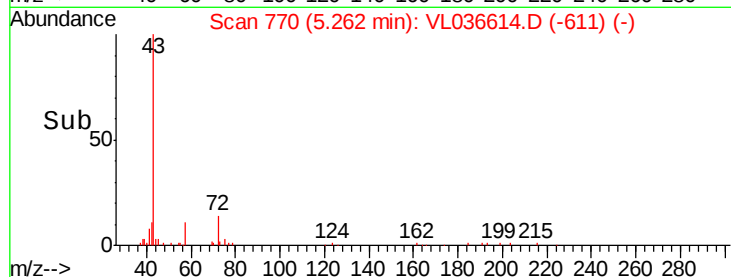
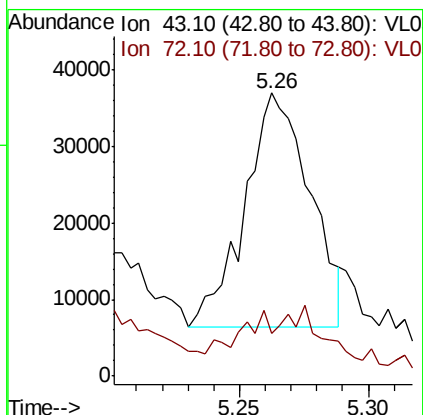
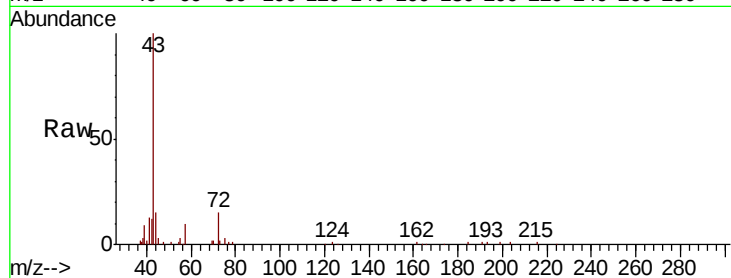




#34
2-Butanone
Concen: 0.292 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

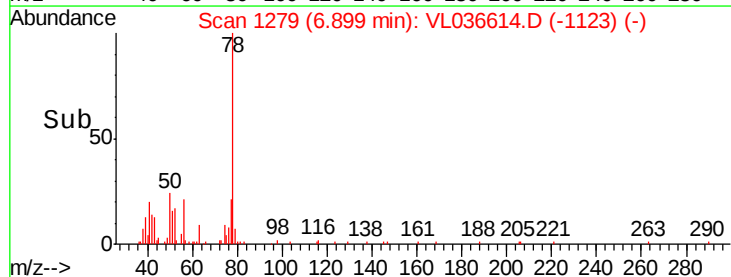
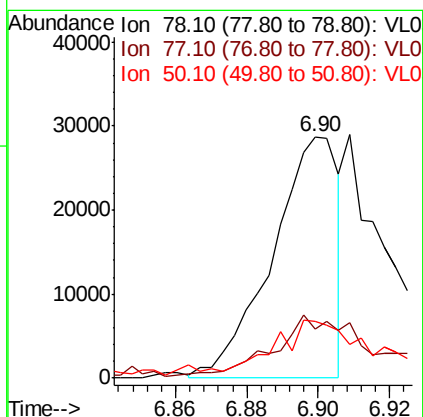
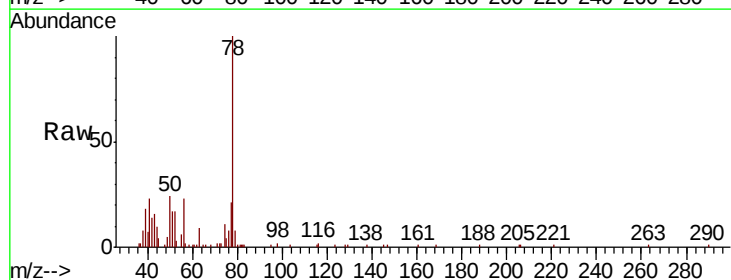
Instrument :
MSVOA_L
ClientSampleId :

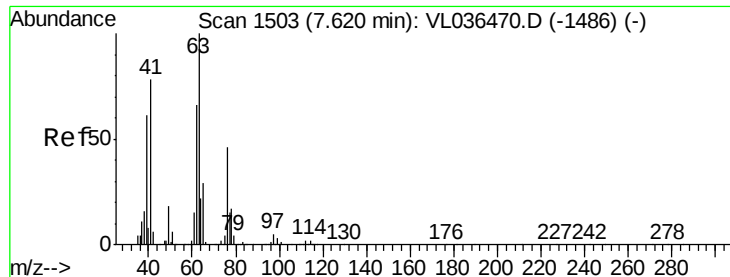
Tot Ion: 43 Resp: 53730
Ion Ratio Lower Upper
43 100
72 44.7 17.0 25.6#



#36
Benzene
Concen: 0.106 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 78 Resp: 36715
Ion Ratio Lower Upper
78 100
77 18.8 18.0 27.0
50 18.3 16.5 24.7





#39

1,2-Dichloropropane

Concen: 7.172 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.43 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

ClientSampleId :

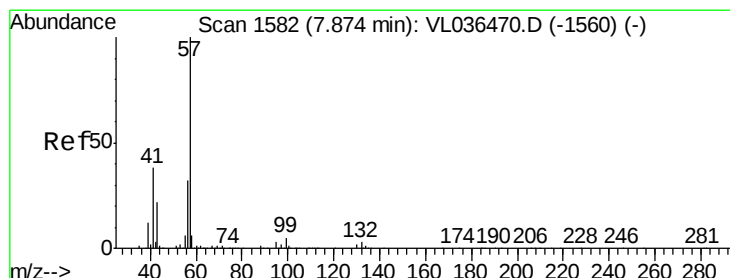
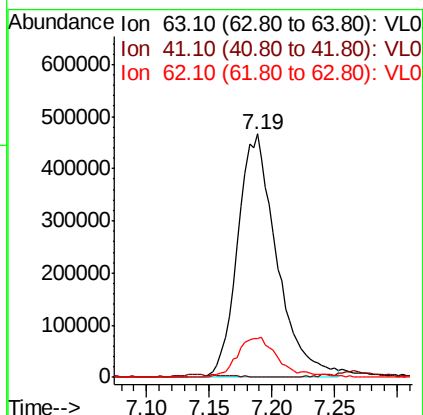
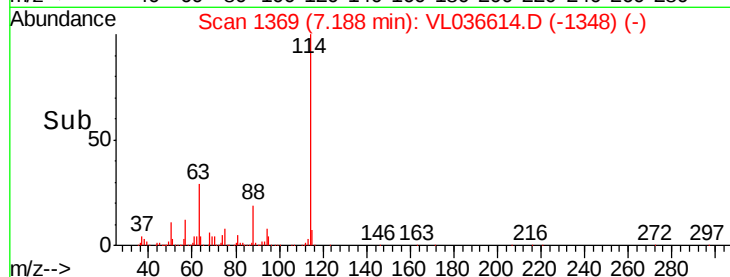
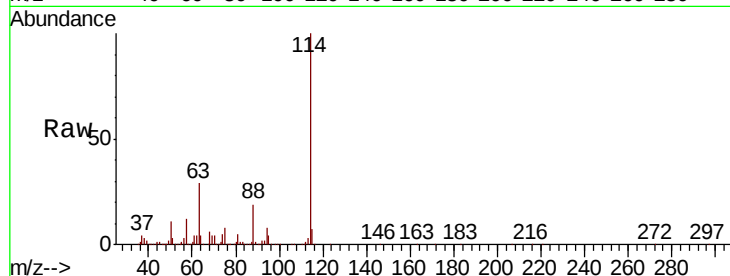
Tot Ion: 63 Resp: 1009793

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 15.8 52.8 79.2#



#44

2,2,4-Trimethylpentane

Concen: 0.029 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

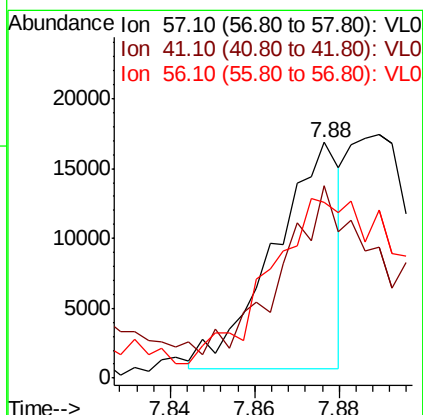
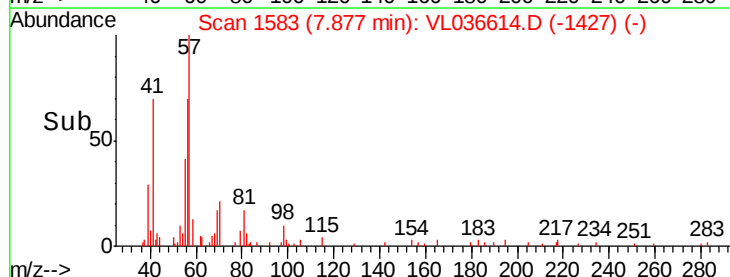
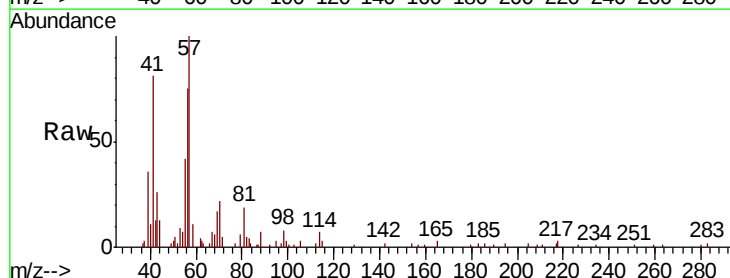
Tgt Ion: 57 Resp: 17636

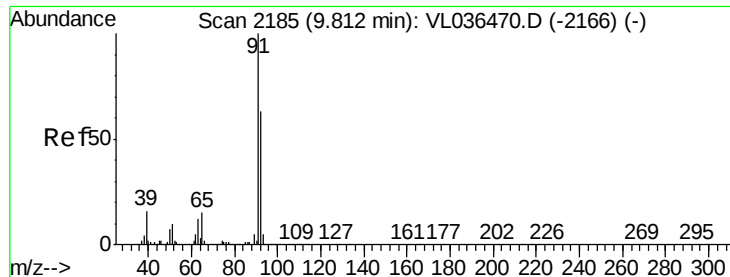
Ion Ratio Lower Upper

57 100

41 146.0 28.8 43.2#

56 185.8 26.1 39.1#





#53

Toluene

Concen: 0.452 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

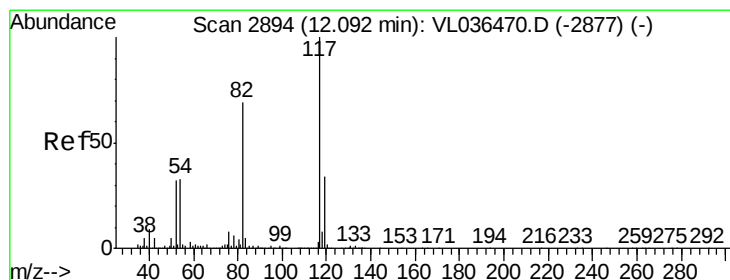
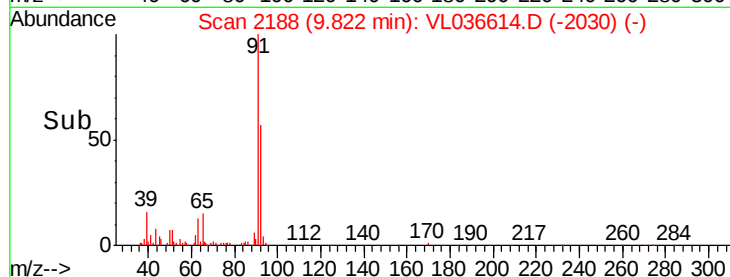
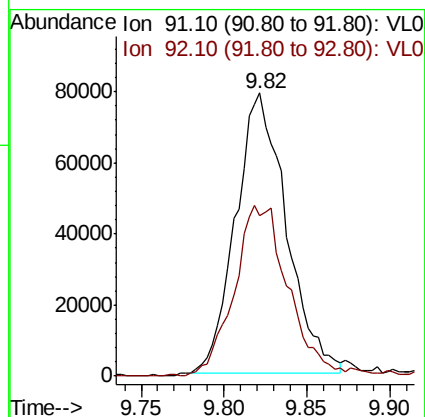
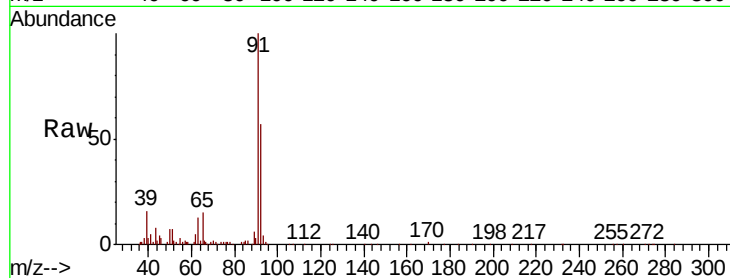
ClientSampleId :

Tot Ion: 91 Resp: 167183

Ion Ratio Lower Upper

91 100

92 68.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

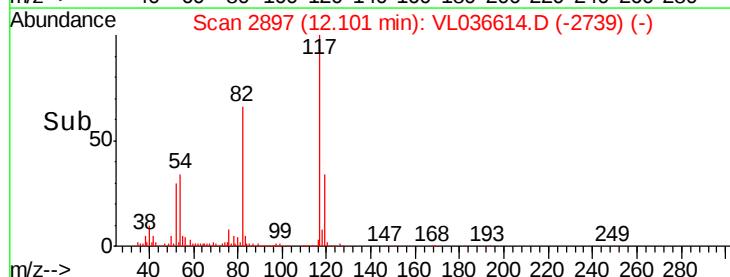
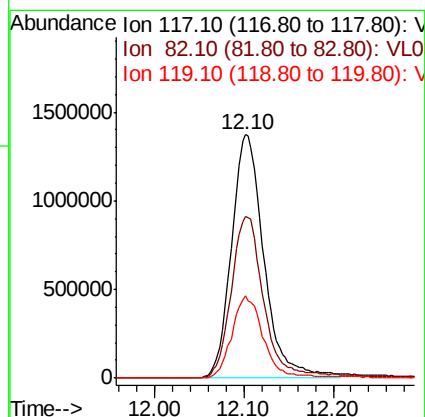
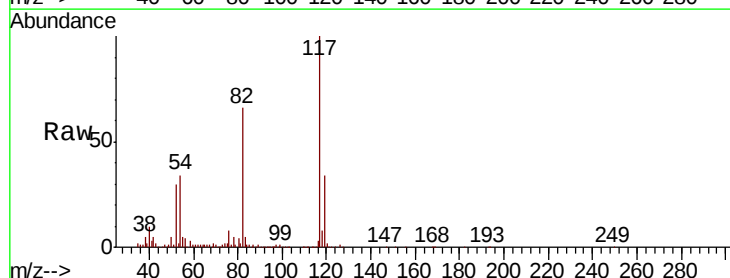
Tgt Ion: 117 Resp: 3468194

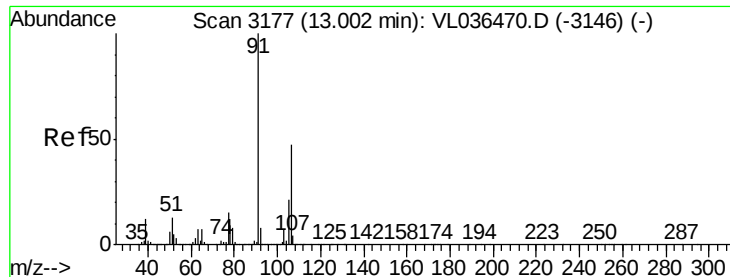
Ion Ratio Lower Upper

117 100

82 68.5 57.4 86.0

119 32.6 47.4 71.0#





#59

m/p-Xylene

Concen: 0.026 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

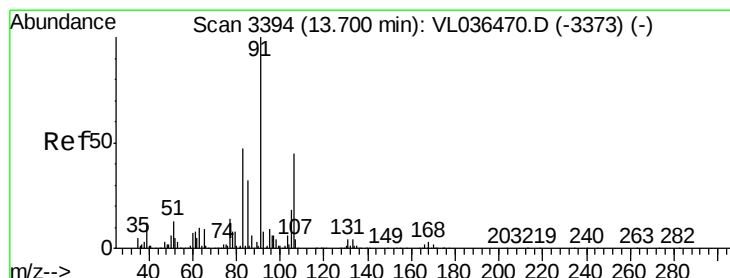
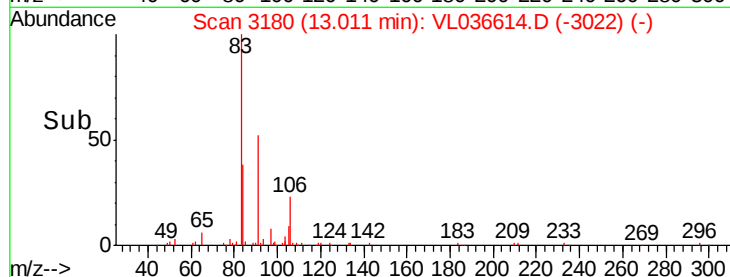
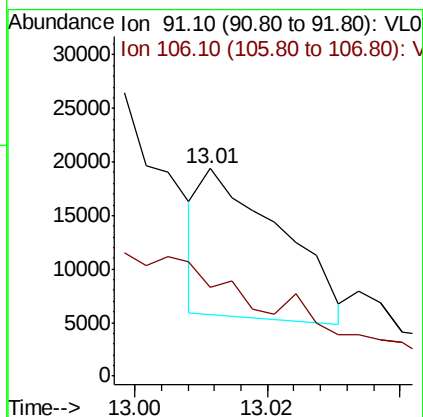
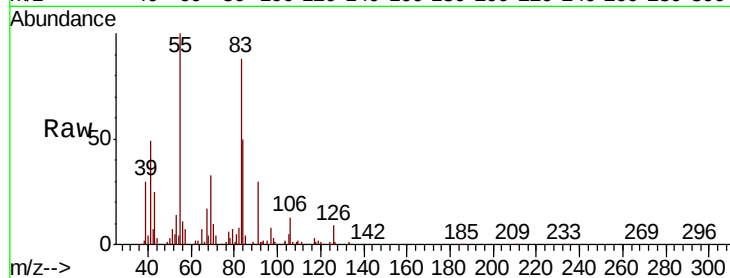
ClientSampleId :

Tot Ion: 91 Resp: 11312

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#



#60

o-Xylene

Concen: 0.052 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VL036614.D

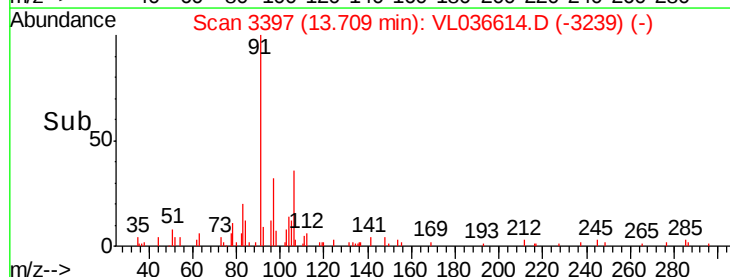
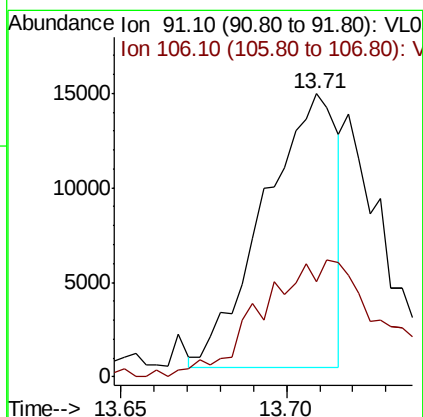
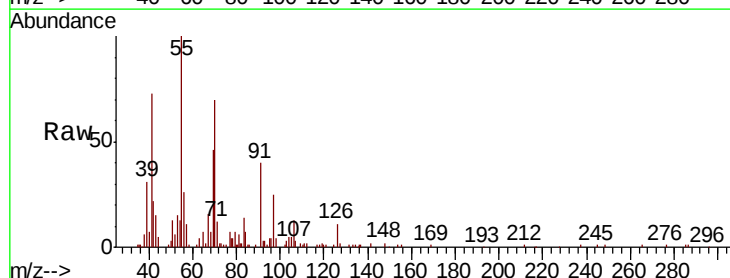
Acq: 31 Mar 2021 23:20

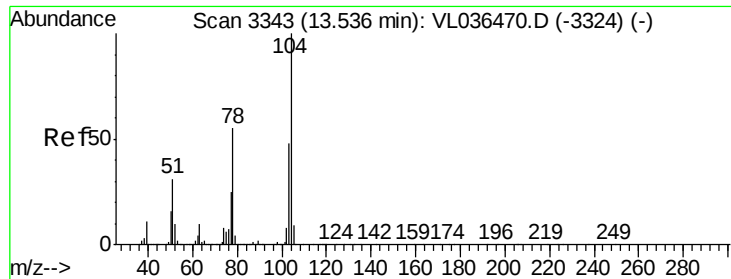
Tgt Ion: 91 Resp: 22167

Ion Ratio Lower Upper

91 100

106 68.9 22.3 66.9#

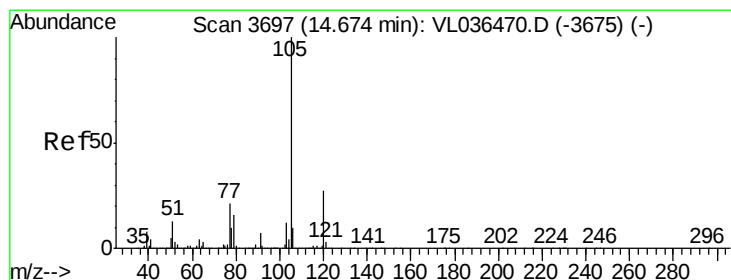
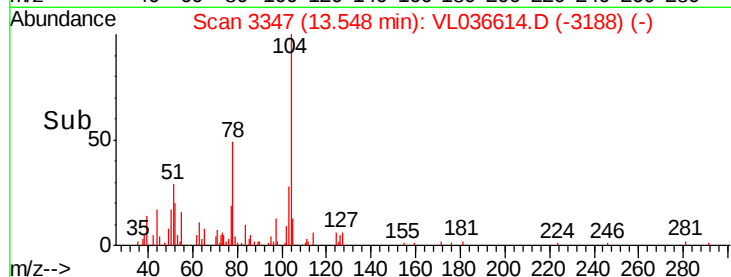
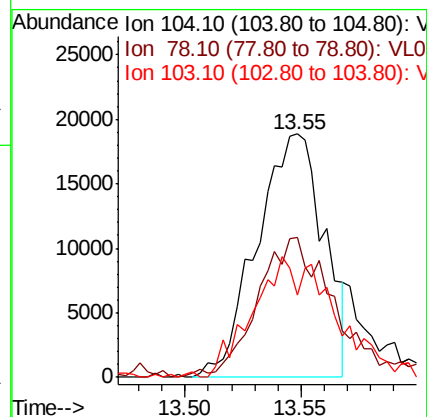
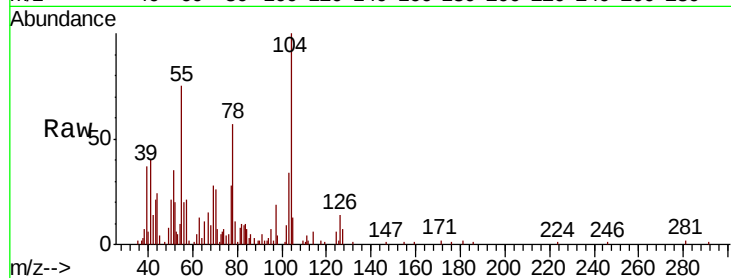




#61
Stvrene
Concen: 0.177 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

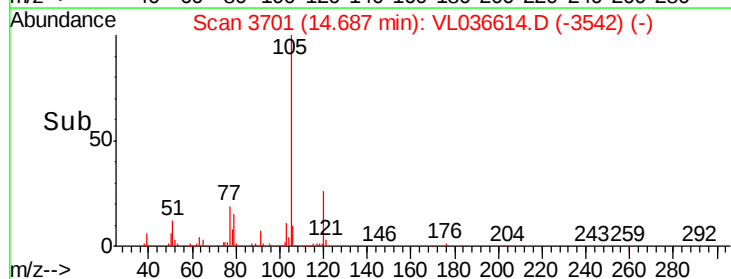
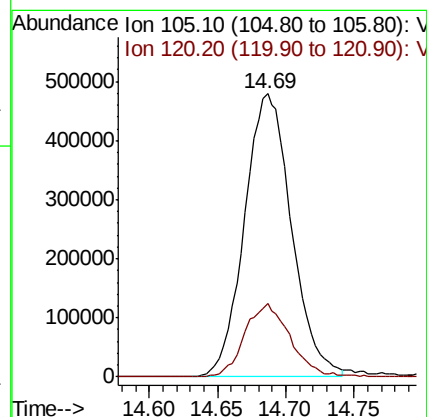
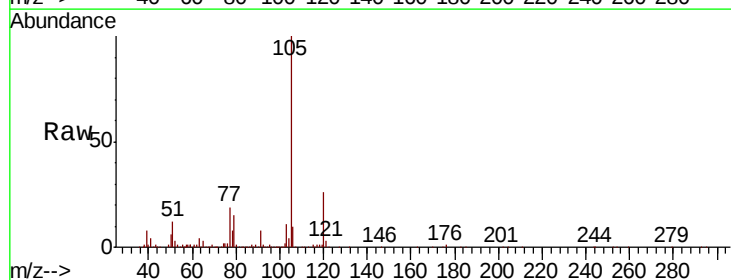
Instrument :
MSVOA_L
ClientSampleId :

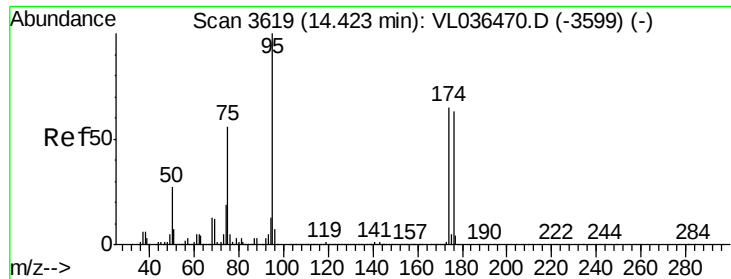
Tot Ion:104 Resp: 37926
Ion Ratio Lower Upper
104 100
78 69.8 43.8 65.8#
103 63.4 38.3 57.5#



#62
Isopropylbenzene
Concen: 1.997 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion:105 Resp: 1144628
Ion Ratio Lower Upper
105 100
120 25.6 20.6 31.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.742 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

ClientSampleId :

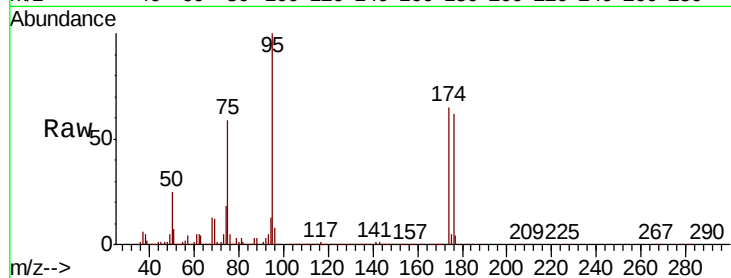
Tot Ion: 95 Resp: 2692778

Ion Ratio Lower Upper

95 100

174 67.7 51.0 76.6

175 5.1 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

