

Data File : VL034694.D
Acq On : 26 Feb 2020 19:12
Operator : SY/AP
Sample : L1664-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ROOFTOP-BRW

Quant Time: Feb 27 07:29:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	892206	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1802913	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1795406	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1539910	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

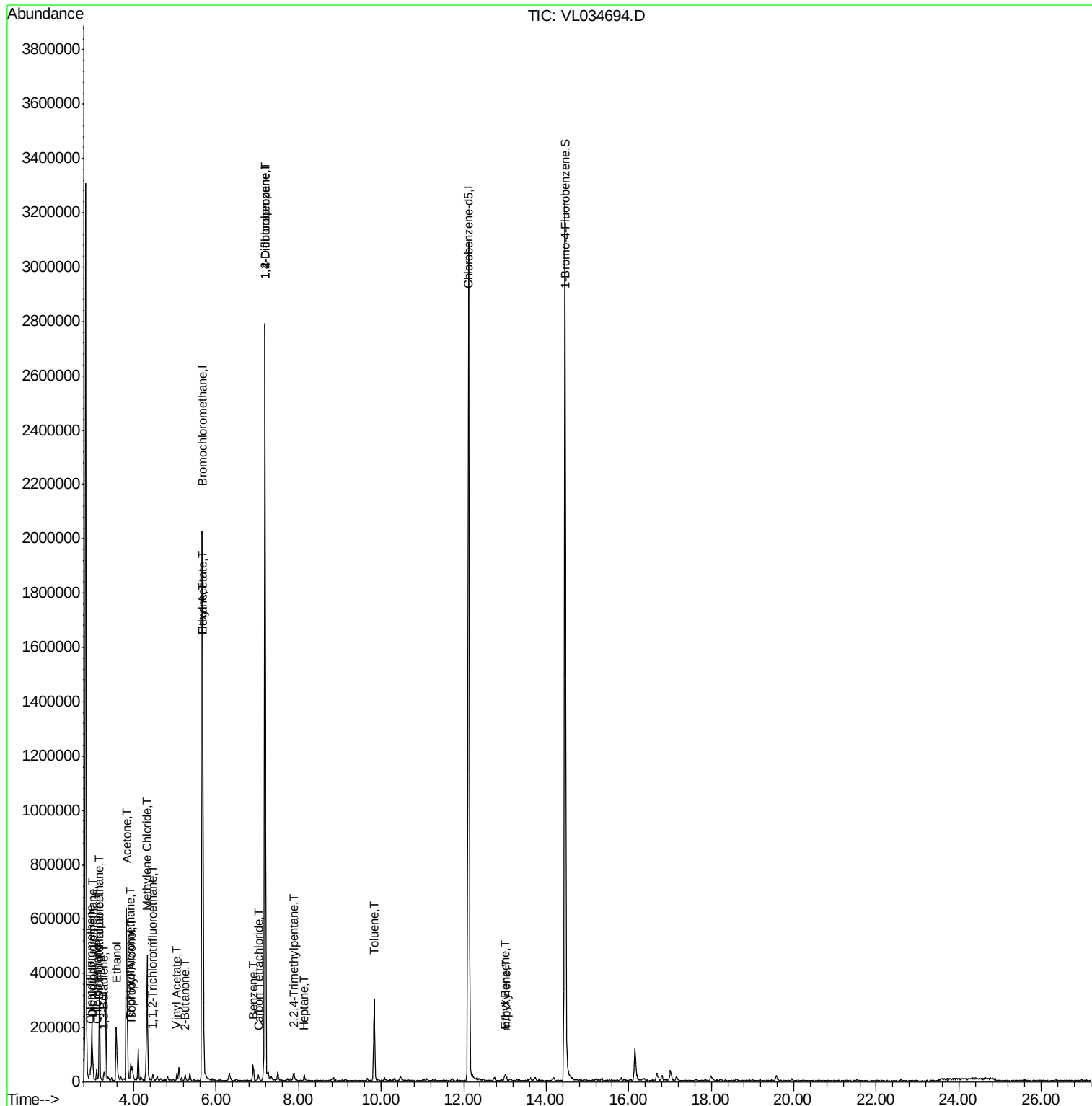
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.01	85	39326	0.279	ppbv #	83
3) Chlorodifluoromethane	2.95	51	46877	0.487	ppbv #	86
4) Chloromethane	3.10	50	27535	0.511	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	2891	0.023	ppbv	98
9) Propene	3.17	41	74164	1.843	ppbv	97
10) Heptane	8.14	43	3223	0.031	ppbv #	44
11) Trichlorofluoromethane	3.92	101	34005	0.276	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	7318	0.084	ppbv	89
13) Ethanol	3.57	45	216527	17.030	ppbv	98
15) Acetone	3.83	43	650453	6.398	ppbv	98
16) 1,3-Butadiene	3.29	39	1178	0.025	ppbv #	1
19) Isopropyl Alcohol	3.96	45	21908	0.362	ppbv #	94
20) Methylene Chloride	4.32	84	147337	3.897	ppbv	94
23) Vinyl Acetate	5.05	43	4726	0.034	ppbv #	1
25) Ethyl Acetate	5.68	43	115646	0.643	ppbv #	79
26) Hexane	5.68	57	163881	1.976	ppbv #	42
34) 2-Butanone	5.25	43	21877	0.193	ppbv	97
35) Carbon Tetrachloride	7.02	117	5177	0.043	ppbv #	77
36) Benzene	6.90	78	36752	0.236	ppbv #	86
39) 1,2-Dichloropropane	7.18	63	517063	8.346	ppbv #	22
44) 2,2,4-Trimethylpentane	7.88	57	6889	0.025	ppbv #	1
53) Toluene	9.83	91	199323	1.203	ppbv	98
58) Ethyl Benzene	13.00	91	6721	0.031	ppbv	95
59) m/p-Xylene	13.03	91	3808	0.020	ppbv #	32

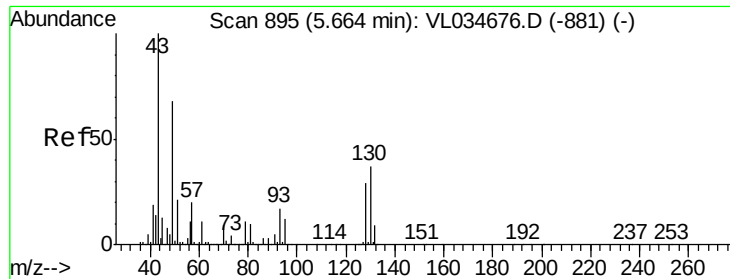
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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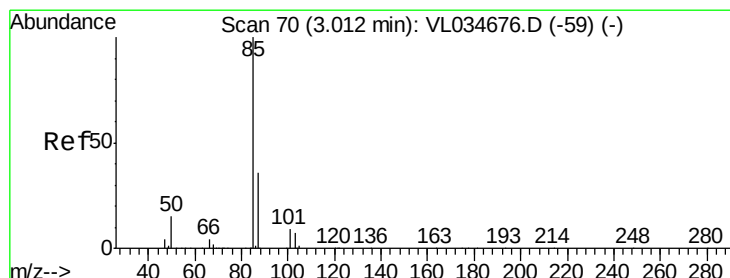
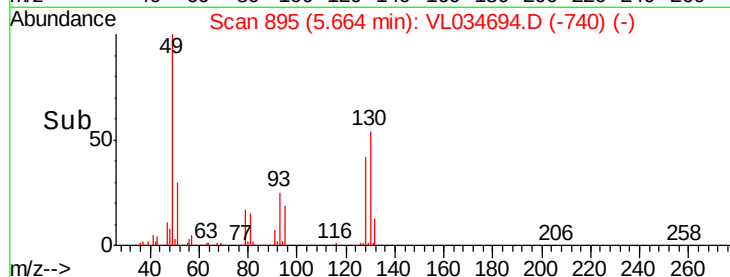
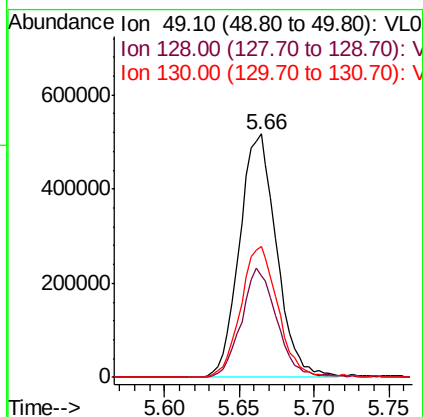
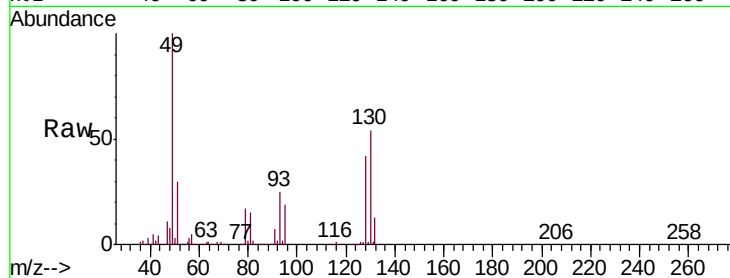




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

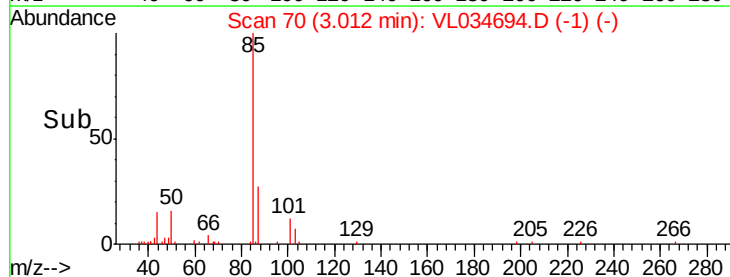
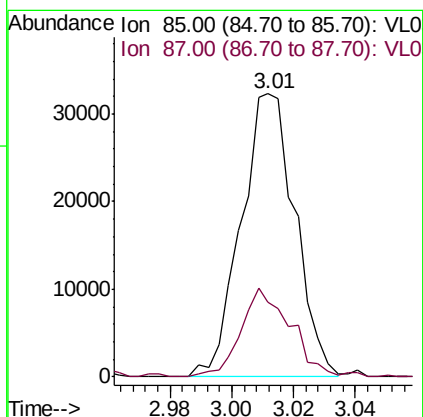
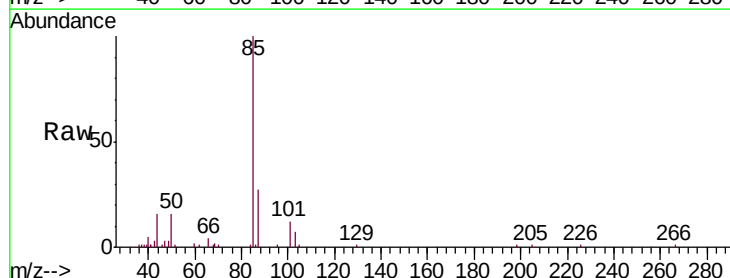
Instrument :
 MSVOA_L
 ClientSampleId :
 ROOFTOP-BRW

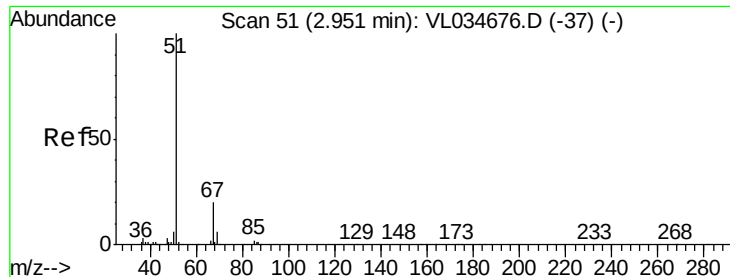
Tgt Ion: 49 Resp: 892206
 Ion Ratio Lower Upper
 49 100
 128 43.2 21.6 65.0
 130 54.4 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.279 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. -0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

Tgt Ion: 85 Resp: 39326
 Ion Ratio Lower Upper
 85 100
 87 26.6 29.2 43.8#





#3

Chlorodifluoromethane

Concen: 0.487 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

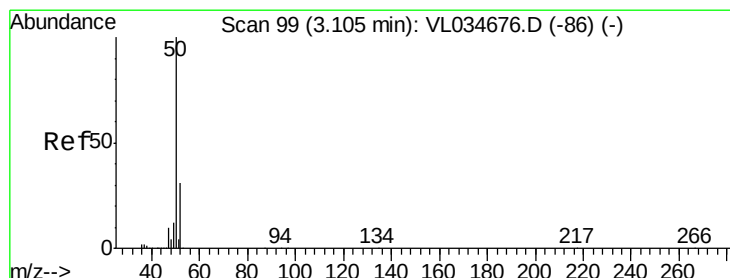
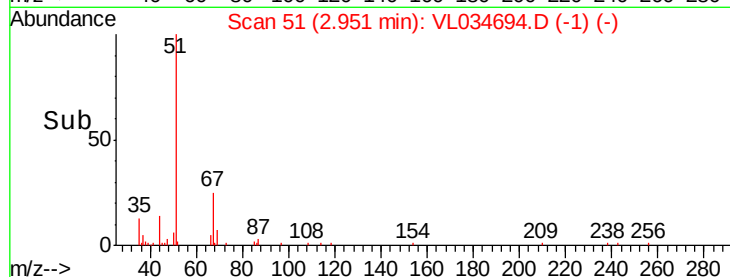
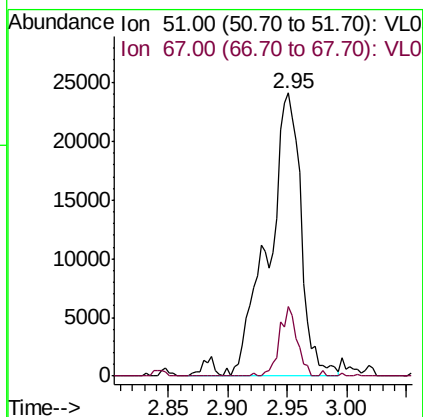
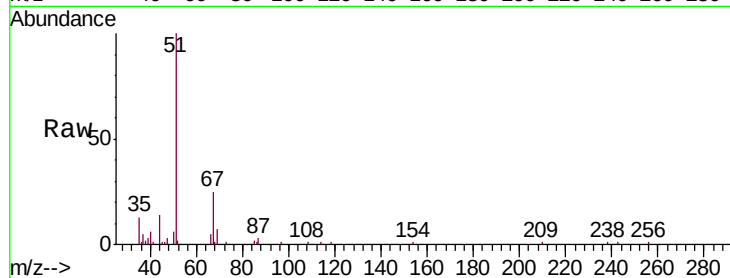
ROOFTOP-BRW

Tgt Ion: 51 Resp: 46877

Ion Ratio Lower Upper

51 100

67 13.1 15.5 23.3#



#4

Chloromethane

Concen: 0.511 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034694.D

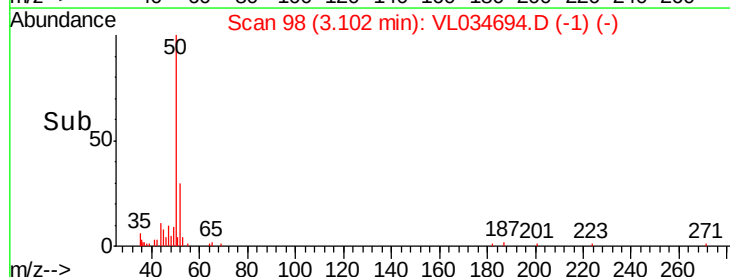
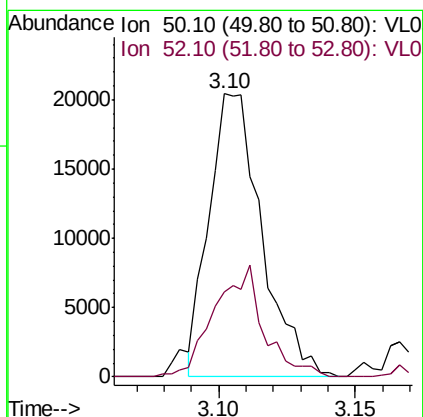
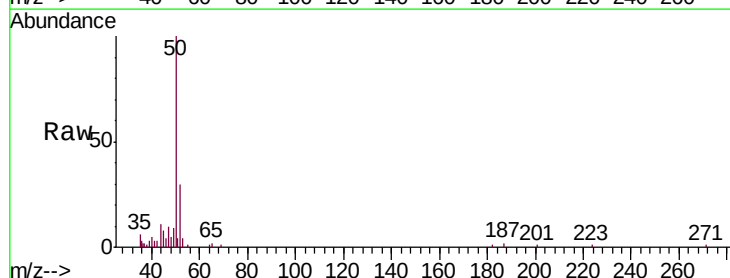
Acq: 26 Feb 2020 19:12

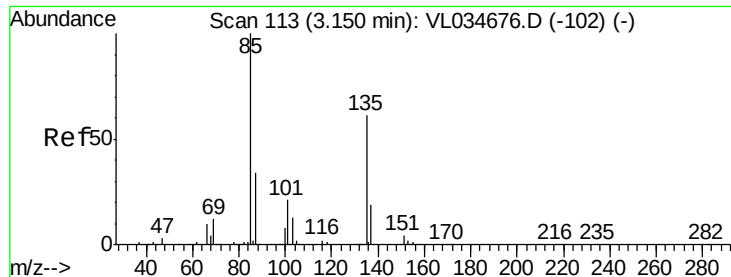
Tgt Ion: 50 Resp: 27535

Ion Ratio Lower Upper

50 100

52 30.0 25.0 37.4





#8

Dichlorotetrafluoroethane

Concen: 0.023 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

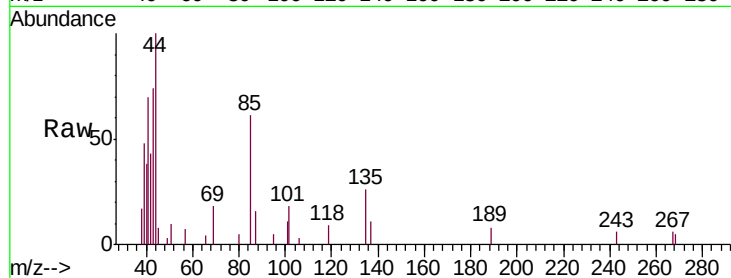
ROOFTOP-BRW

Tgt Ion: 85 Resp: 2891

Ion Ratio Lower Upper

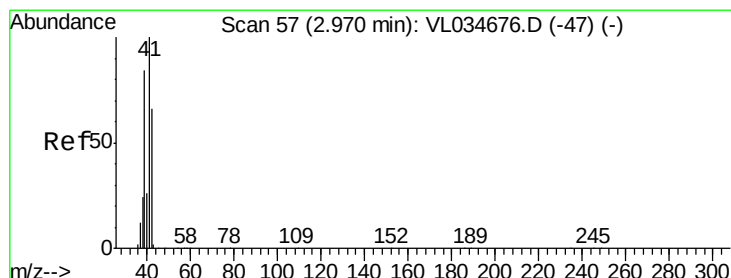
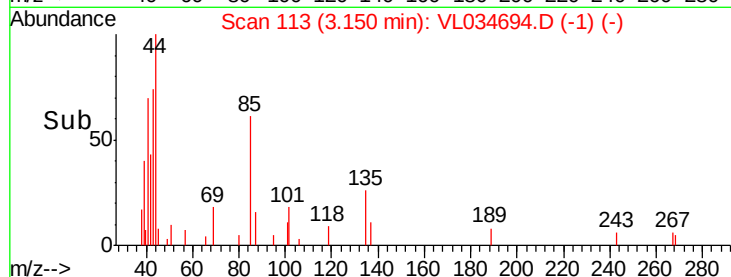
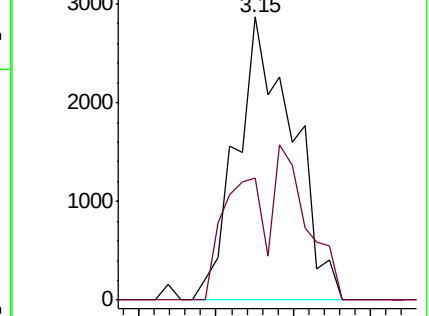
85 100

135 63.6 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 1.843 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.20 min

Lab File: VL034694.D

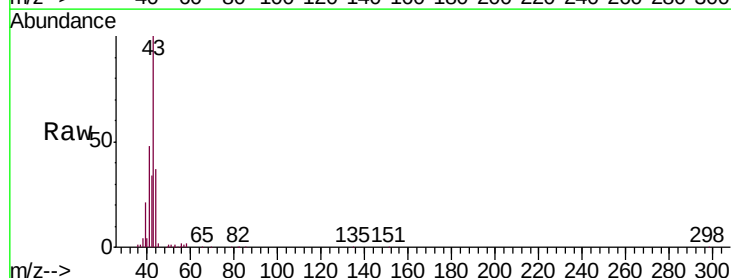
Acq: 26 Feb 2020 19:12

Tgt Ion: 41 Resp: 74164

Ion Ratio Lower Upper

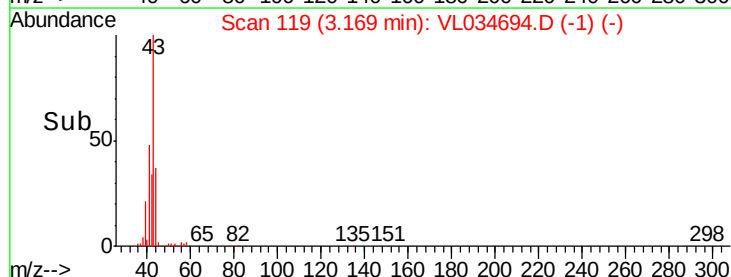
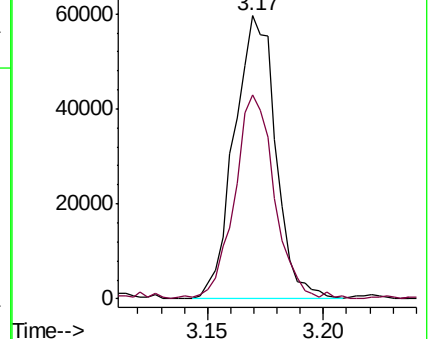
41 100

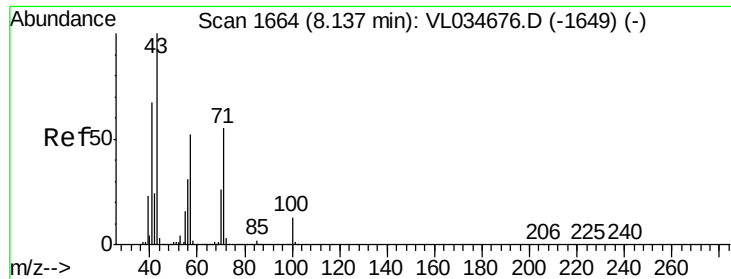
42 71.3 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

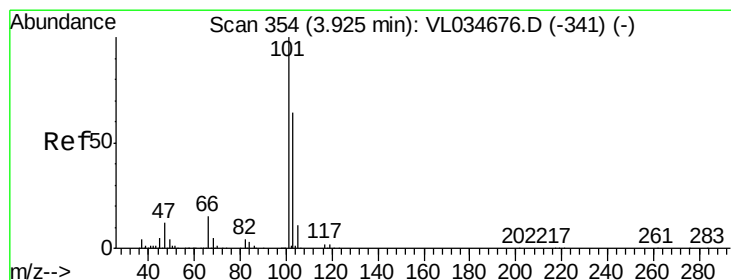
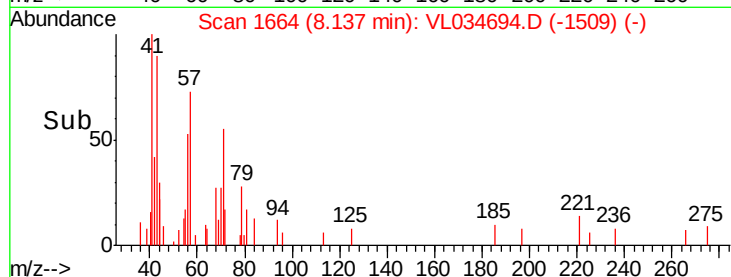
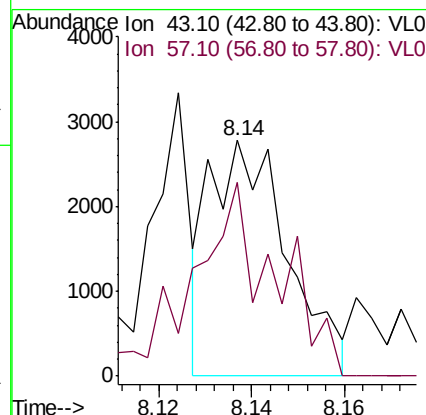
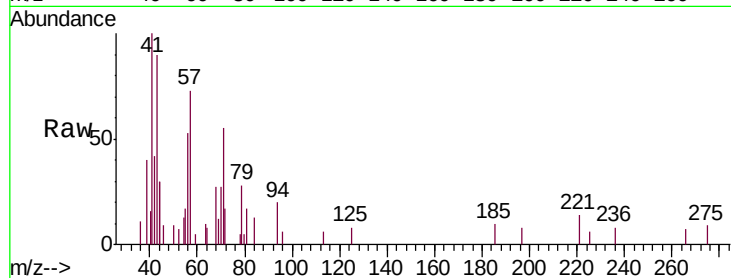




#10
 Heptane
 Concen: 0.031 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. -0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

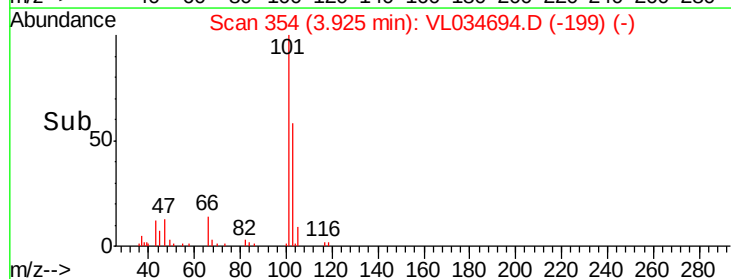
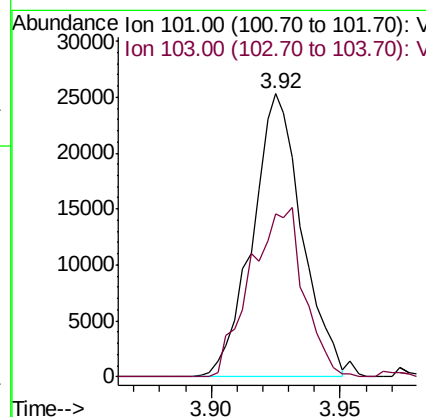
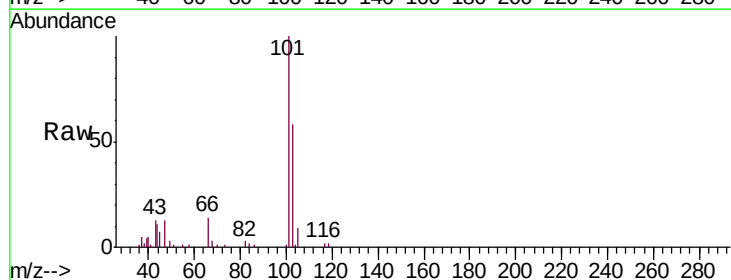
Instrument :
 MSVOA_L
 ClientSampleId :
 ROOFTOP-BRW

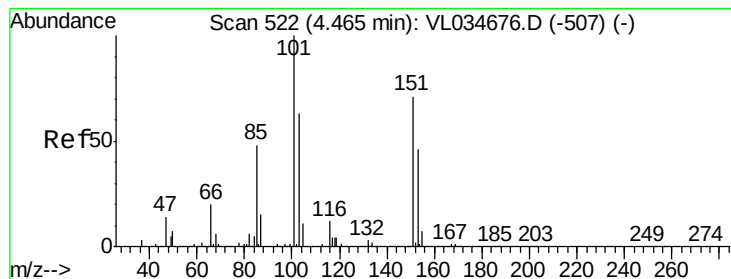
Tgt Ion: 43 Resp: 3223
 Ion Ratio Lower Upper
 43 100
 57 90.4 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.276 ppbv
 RT: 3.92 min Scan# 354
 Delta R.T. -0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

Tgt Ion: 101 Resp: 34005
 Ion Ratio Lower Upper
 101 100
 103 57.6 51.2 76.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.084 ppbv

RT: 4.47 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

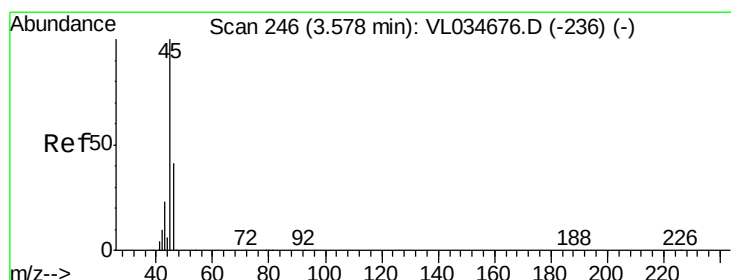
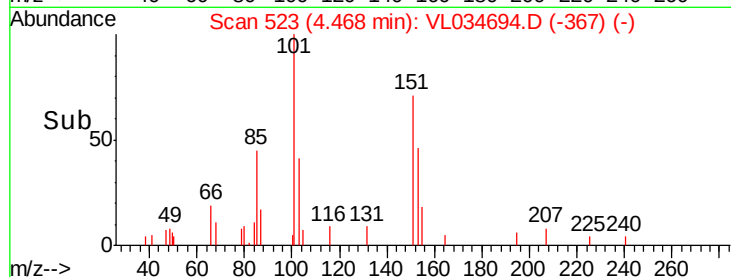
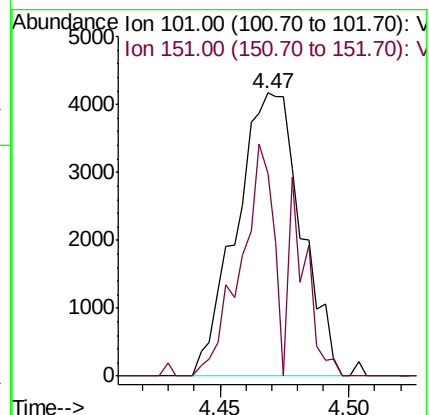
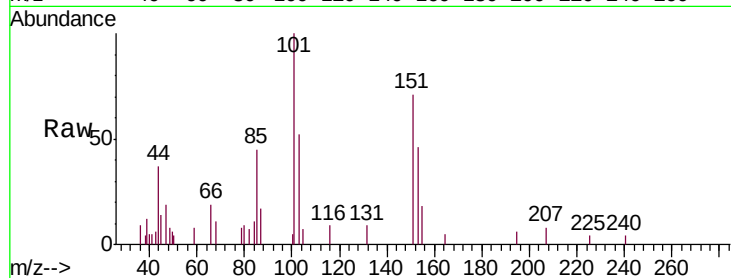
ROOFTOP-BRW

Tgt Ion: 101 Resp: 7318

Ion Ratio Lower Upper

101 100

151 60.8 55.8 83.6



#13

Ethanol

Concen: 17.030 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034694.D

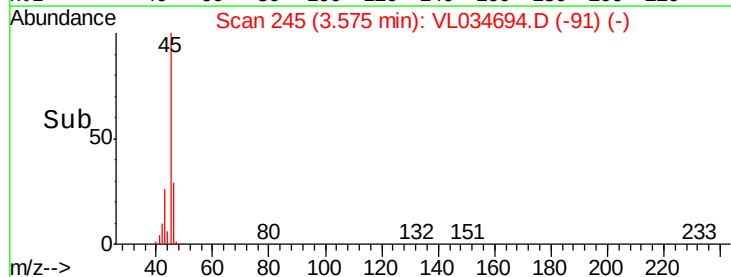
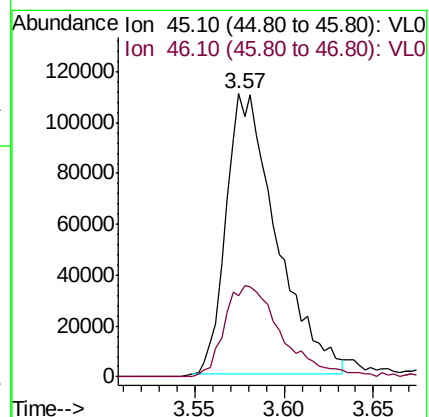
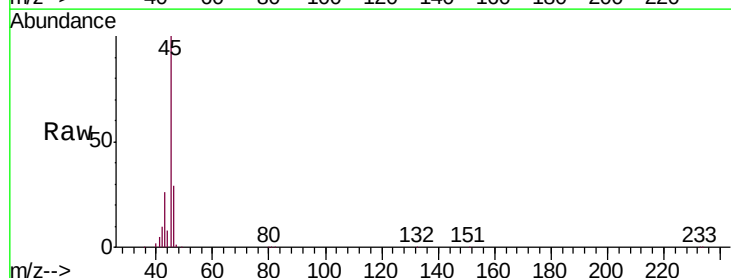
Acq: 26 Feb 2020 19:12

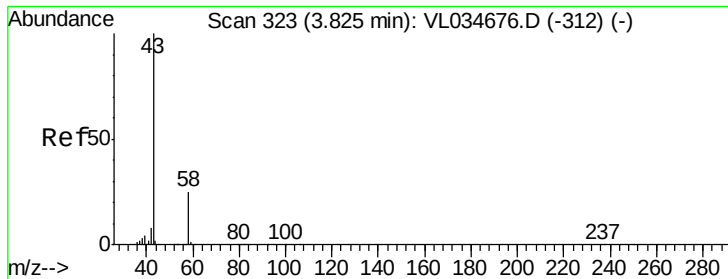
Tgt Ion: 45 Resp: 216527

Ion Ratio Lower Upper

45 100

46 37.3 15.4 61.4

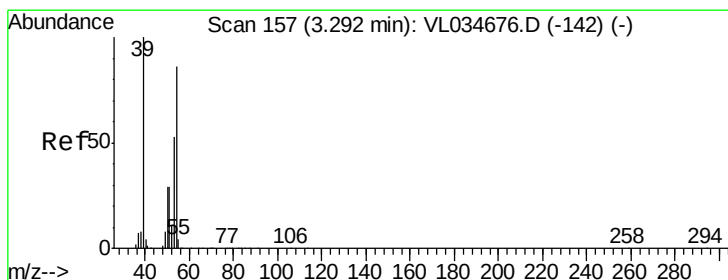
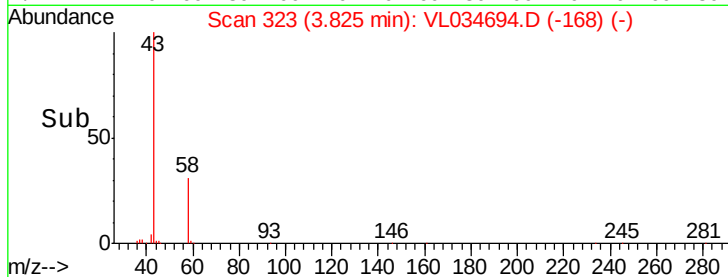
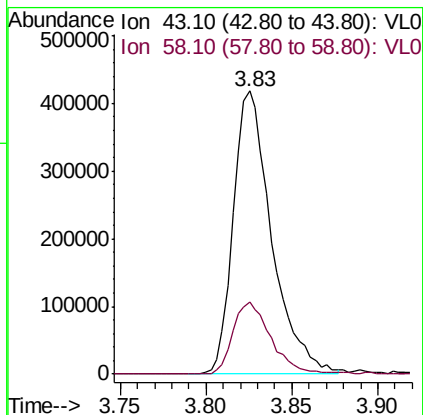
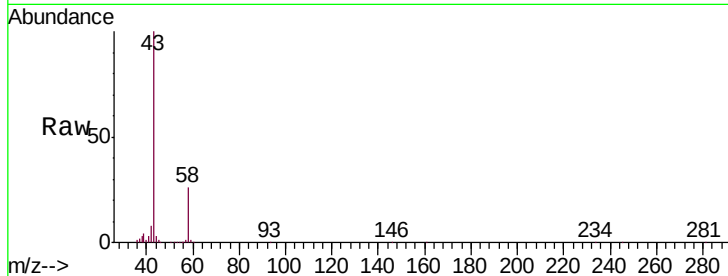




#15
Acetone
Concen: 6.398 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

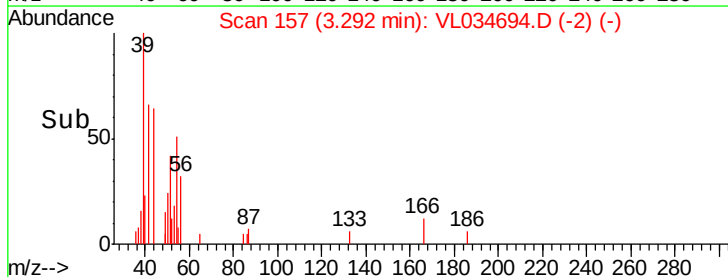
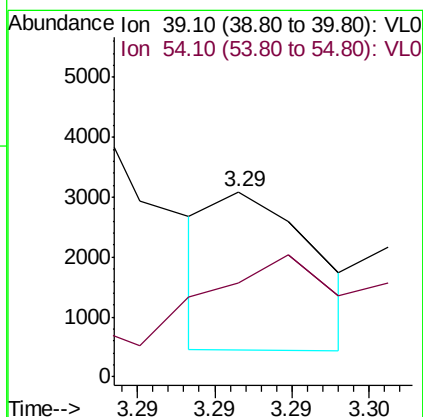
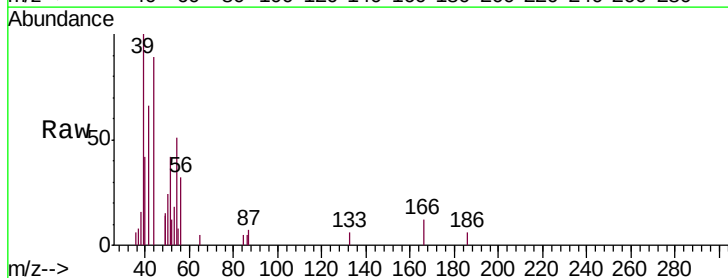
Instrument :
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ClientSampleId :
ROOFTOP-BRW

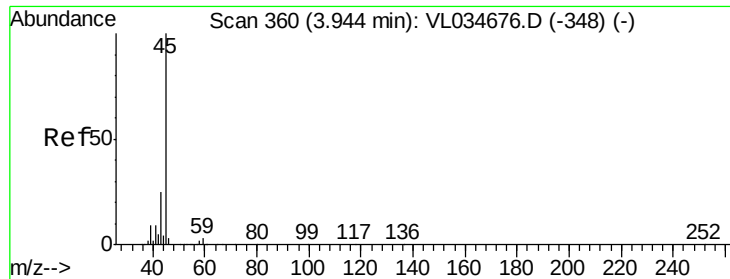
Tgt Ion: 43 Resp: 650453
Ion Ratio Lower Upper
43 100
58 25.8 21.4 32.0



#16
1,3-Butadiene
Concen: 0.025 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Tgt Ion: 39 Resp: 1178
Ion Ratio Lower Upper
39 100
54 345.6 67.0 100.6#





#19

Isopropyl Alcohol

Concen: 0.362 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

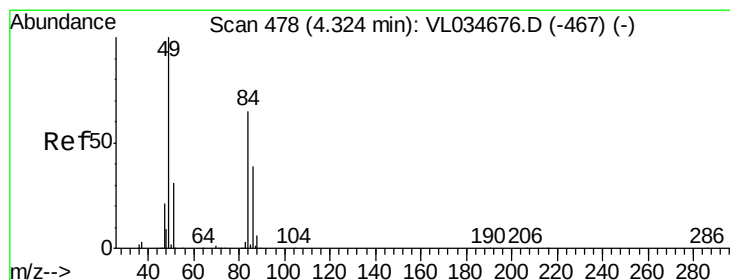
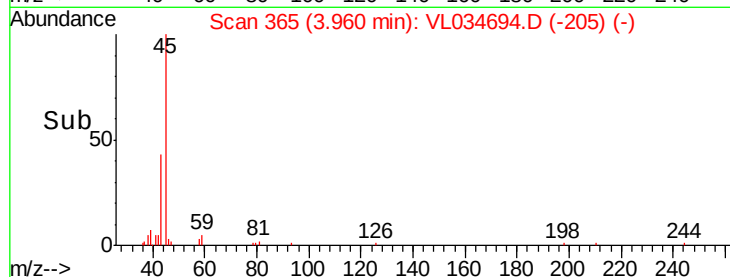
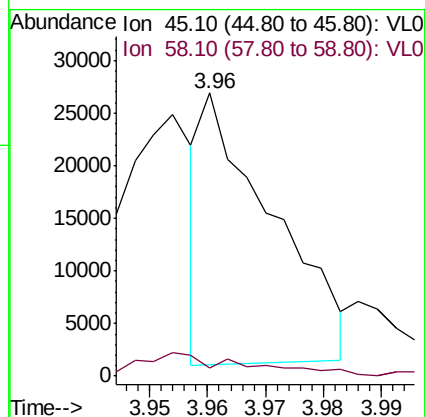
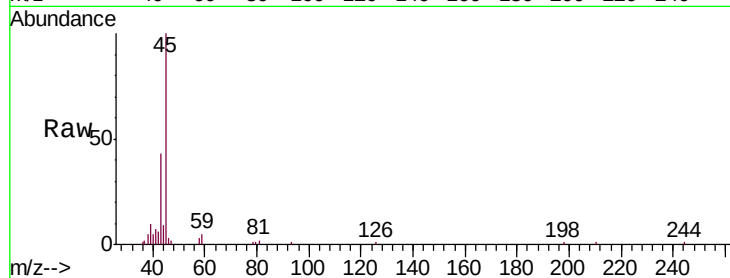
ROOFTOP-BRW

Tgt Ion: 45 Resp: 21908

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 3.897 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Tgt Ion: 84 Resp: 147337

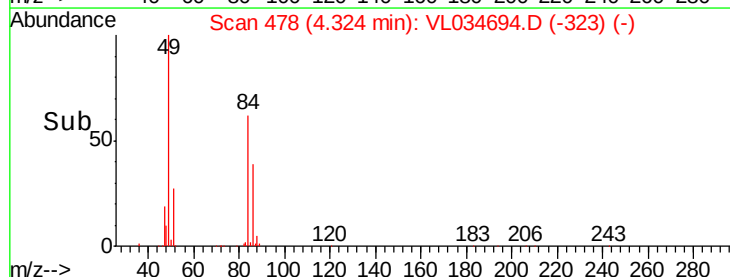
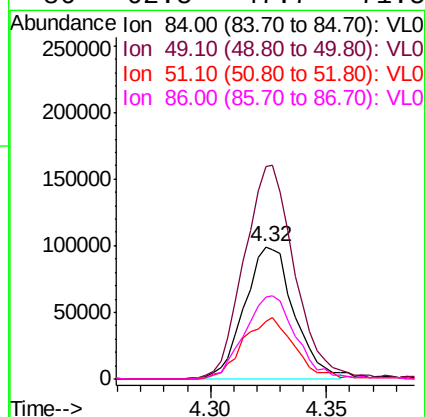
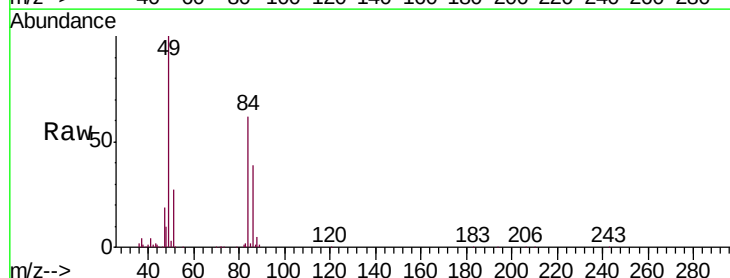
Ion Ratio Lower Upper

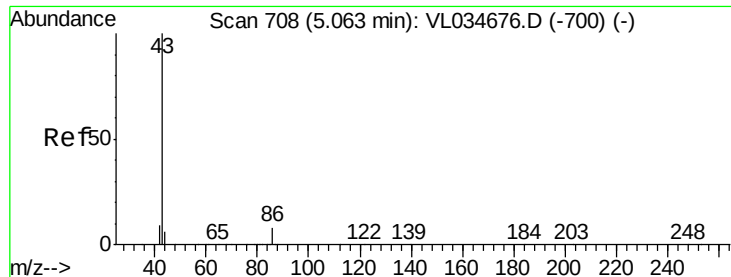
84 100

49 161.0 122.8 184.2

51 43.4 38.6 58.0

86 62.5 47.7 71.5





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.01 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

ROOFTOP-BRW

Tgt Ion: 43 Resp: 4726

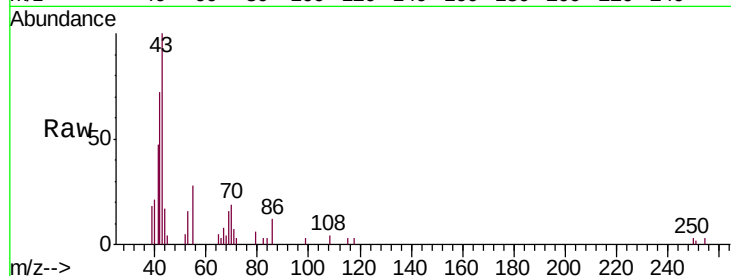
Ion Ratio Lower Upper

43 100

86 10.5 6.0 9.0#

42 95.5 8.0 12.0#

44 12.7 4.5 6.7#

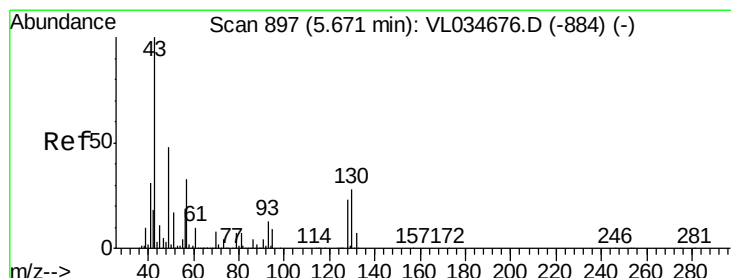
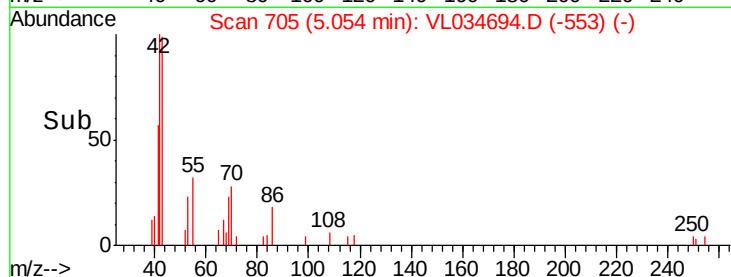
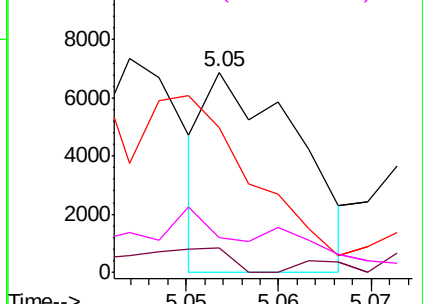


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.643 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Tgt Ion: 43 Resp: 115646

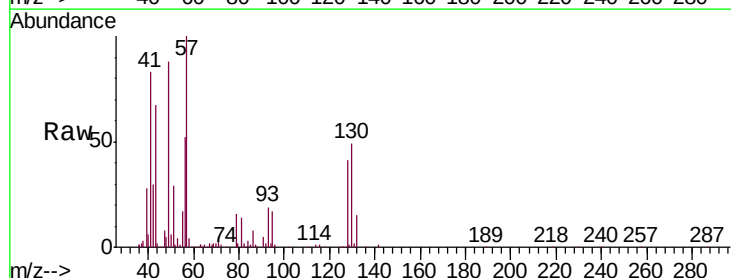
Ion Ratio Lower Upper

43 100

45 2.3 8.2 12.4#

61 1.0 7.8 11.6#

70 2.3 6.1 9.1#

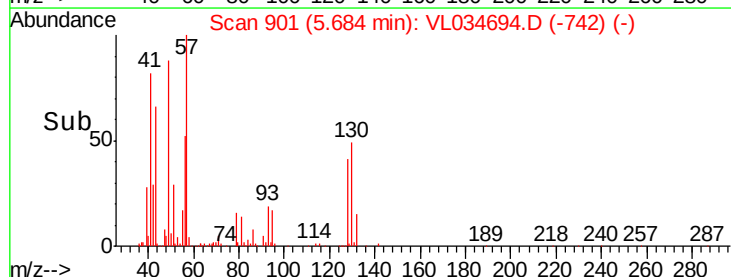
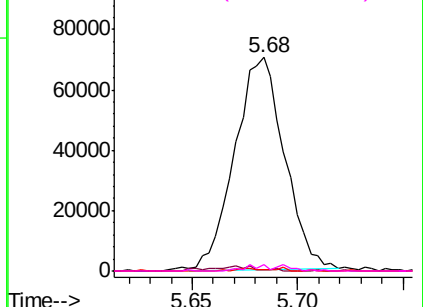


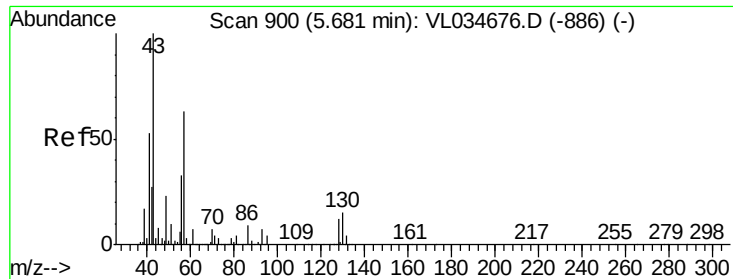
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

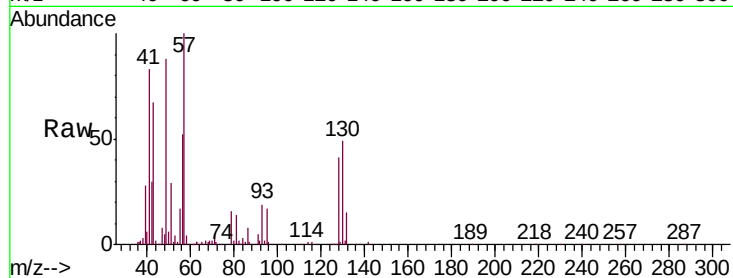




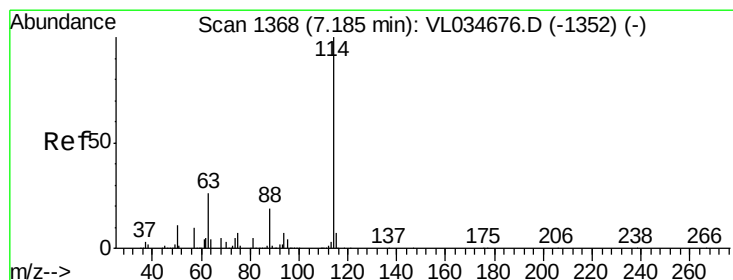
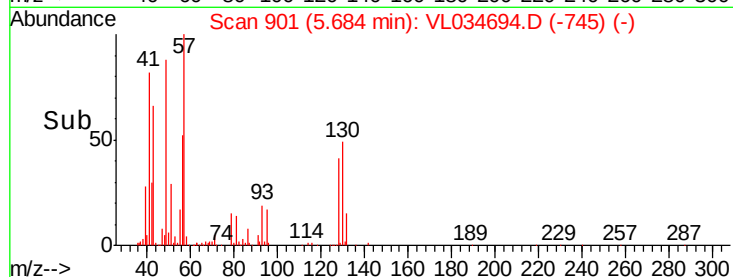
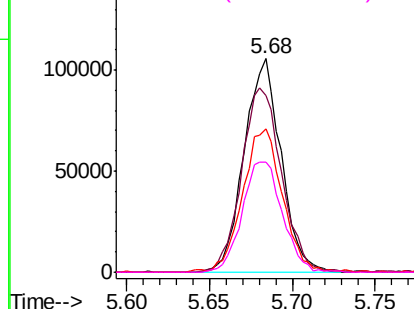
#26
Hexane
Concen: 1.976 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Instrument :
MSVOA_L
ClientSampleId :
ROOFTOP-BRW

Tgt Ion:	57	Resp:	163881
Ion	Ratio	Lower	Upper
57	100		
41	93.5	70.3	105.5
43	72.5	177.0	265.4#
56	56.3	42.6	64.0

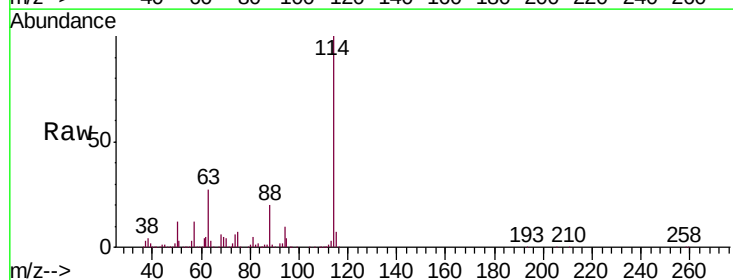


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

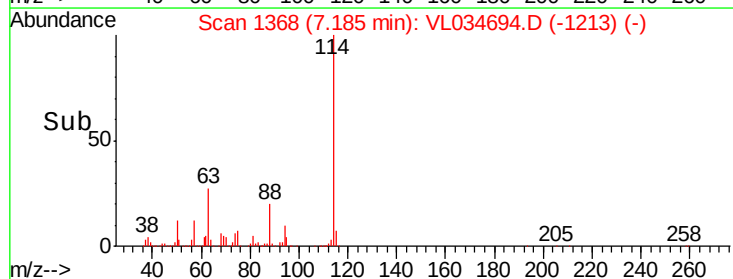
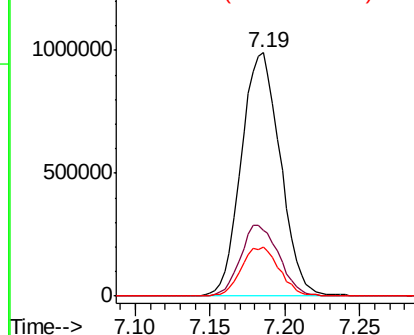


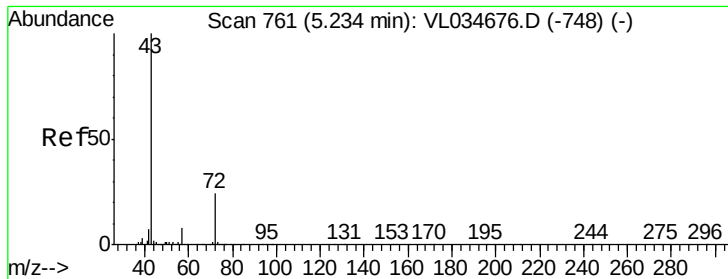
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Tgt Ion:	114	Resp:	1802913
Ion	Ratio	Lower	Upper
114	100		
63	28.9	22.9	34.3
88	19.7	15.8	23.6



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: 0.193 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

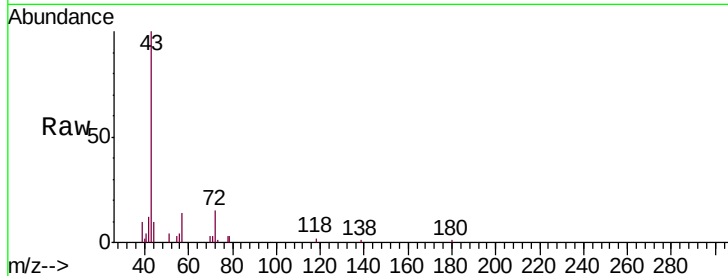
ROOFTOP-BRW

Tgt Ion: 43 Resp: 21877

Ion Ratio Lower Upper

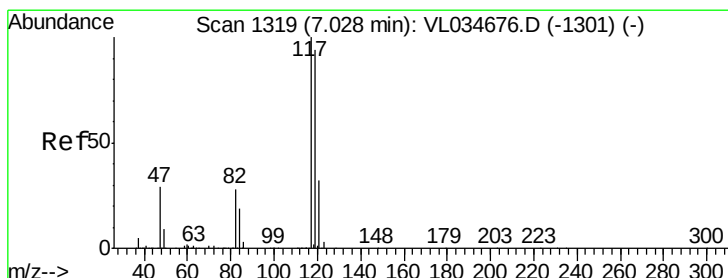
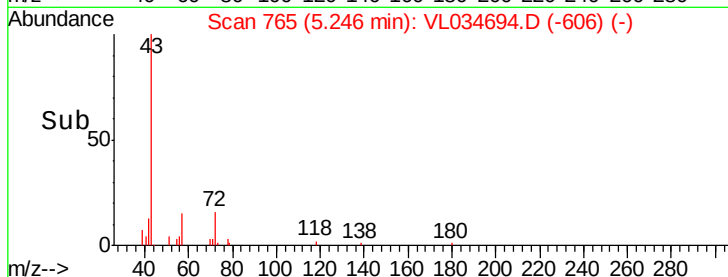
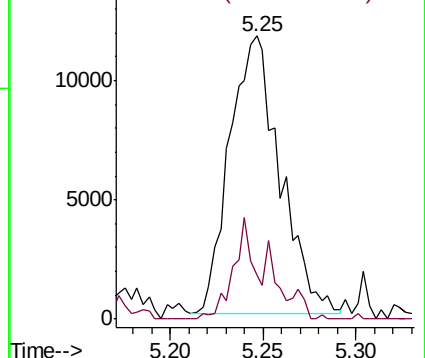
43 100

72 24.0 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.043 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

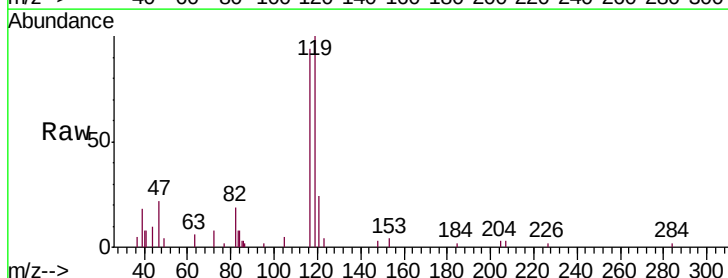
Tgt Ion: 117 Resp: 5177

Ion Ratio Lower Upper

117 100

119 111.9 75.5 113.3

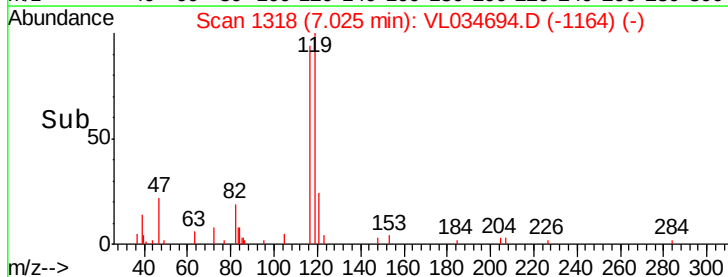
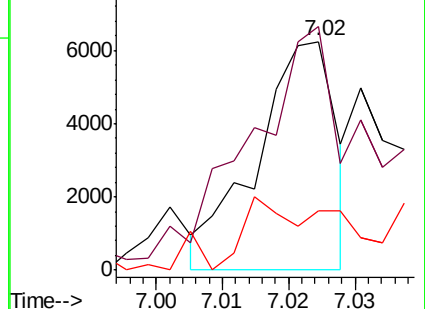
121 10.5 25.4 38.0#

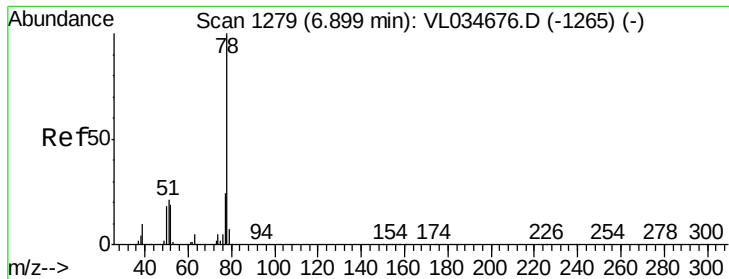


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.236 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

Instrument :

MSVOA_L

ClientSampleId :

ROOFTOP-BRW

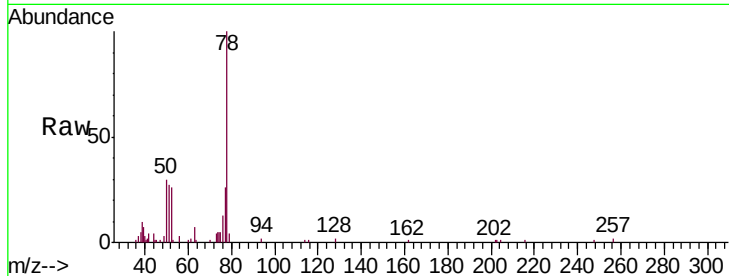
Tgt Ion: 78 Resp: 36752

Ion Ratio Lower Upper

78 100

77 26.7 19.5 29.3

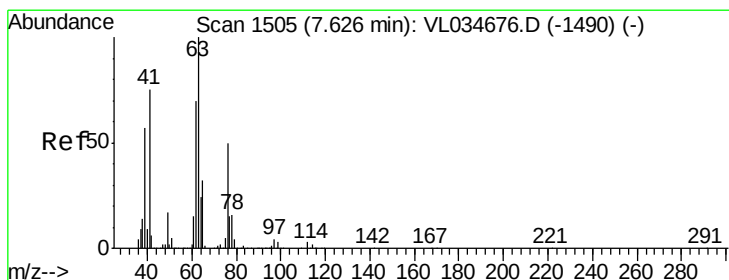
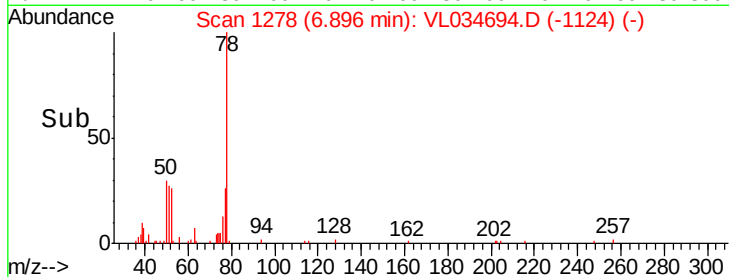
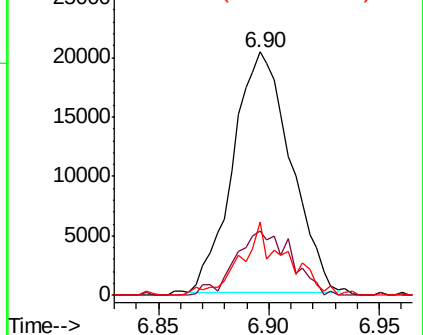
50 30.5 14.6 21.8#



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: 8.346 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL034694.D

Acq: 26 Feb 2020 19:12

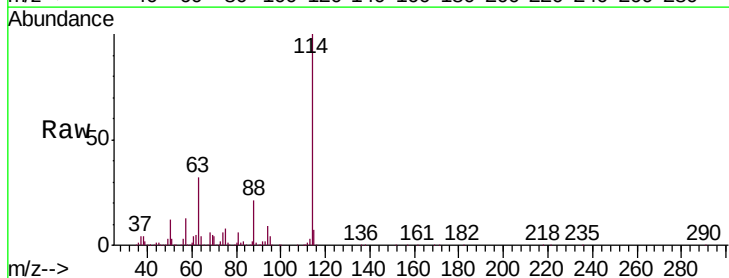
Tgt Ion: 63 Resp: 517063

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

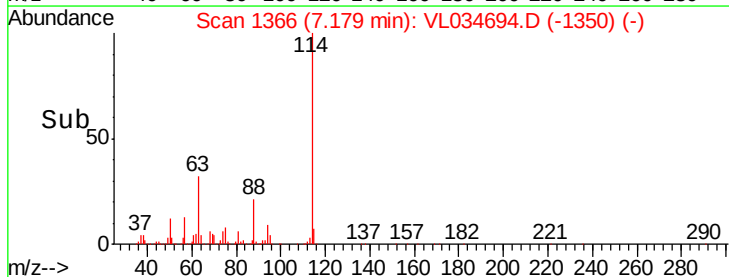
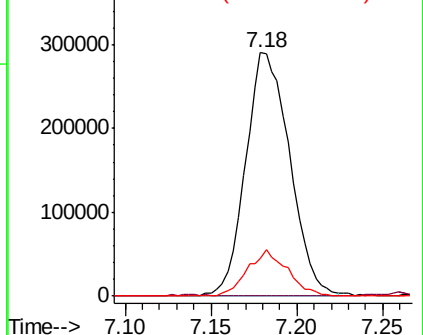
62 15.3 56.3 84.5#

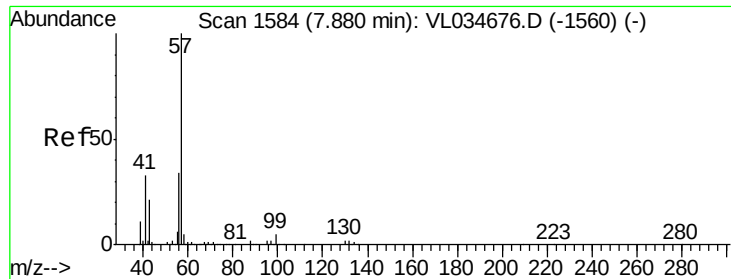


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

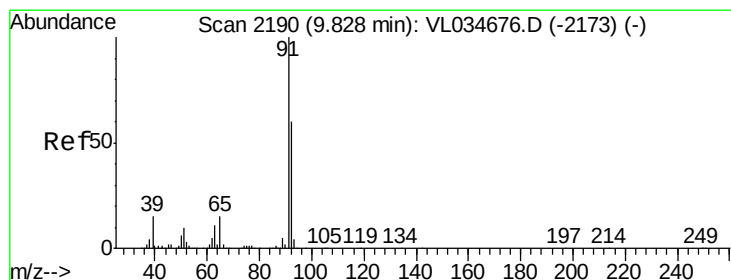
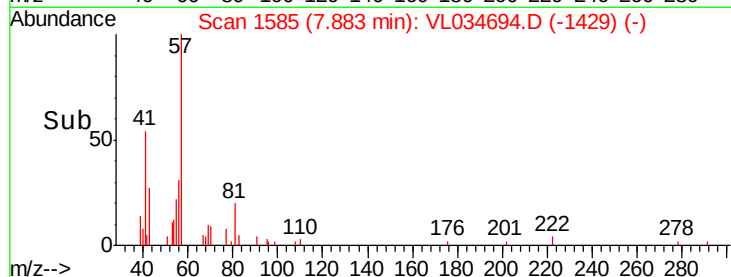
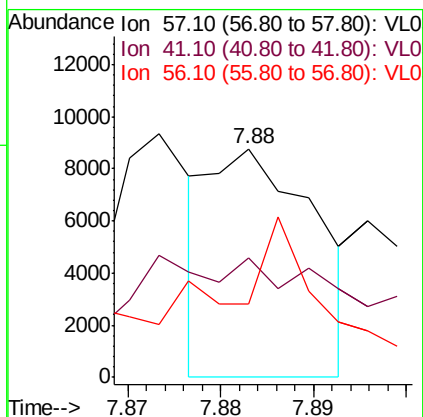
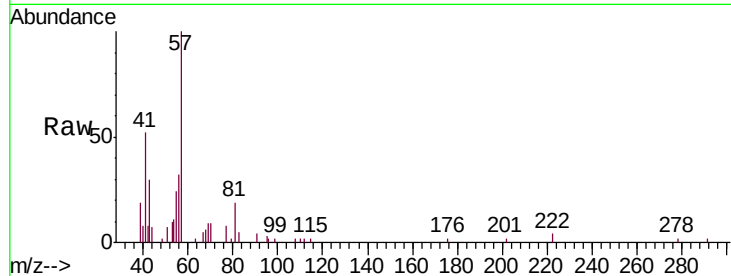




#44
 2,2,4-Trimethylpentane
 Concen: 0.025 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

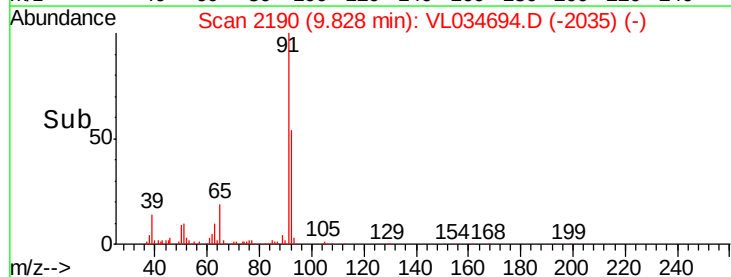
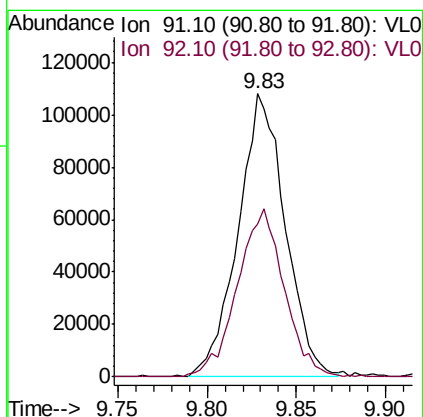
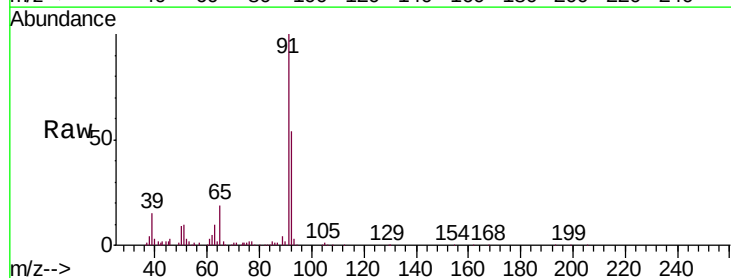
Instrument :
 MSVOA_L
 ClientSampleId :
 ROOFTOP-BRW

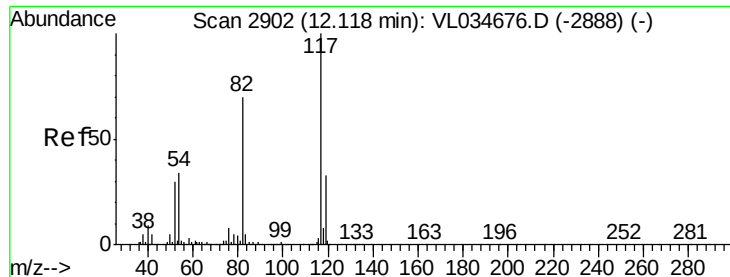
Tgt Ion: 57 Resp: 6889
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.0 39.0#
 56 133.0 25.6 38.4#



#53
 Toluene
 Concen: 1.203 ppbv
 RT: 9.83 min Scan# 2190
 Delta R.T. -0.00 min
 Lab File: VL034694.D
 Acq: 26 Feb 2020 19:12

Tgt Ion: 91 Resp: 199323
 Ion Ratio Lower Upper
 91 100
 92 58.9 48.5 72.7

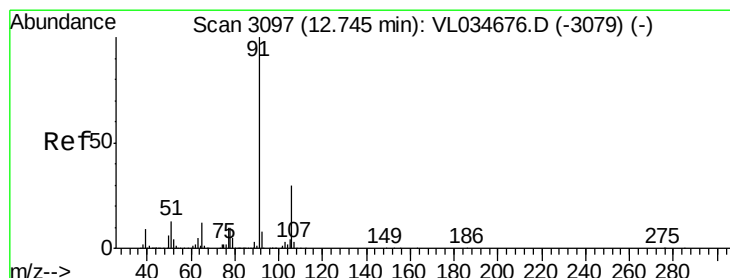
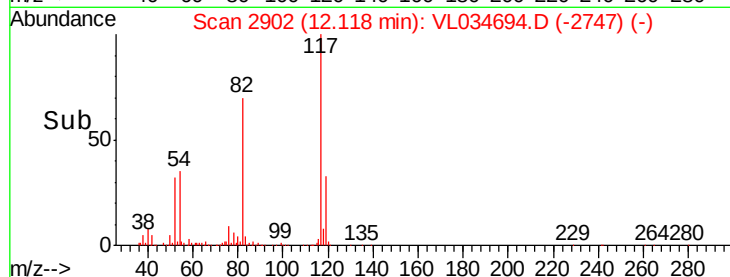
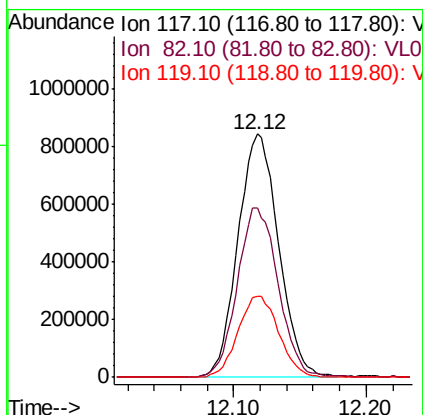
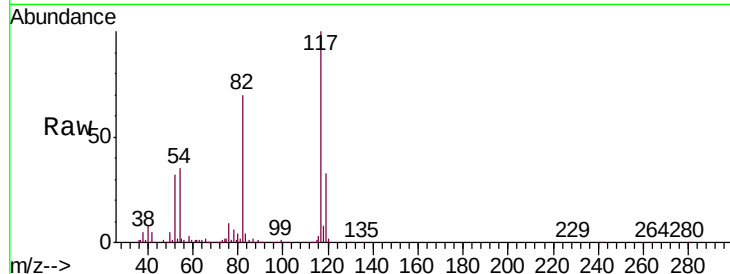




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

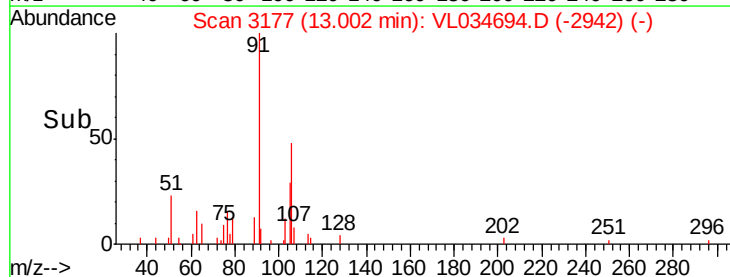
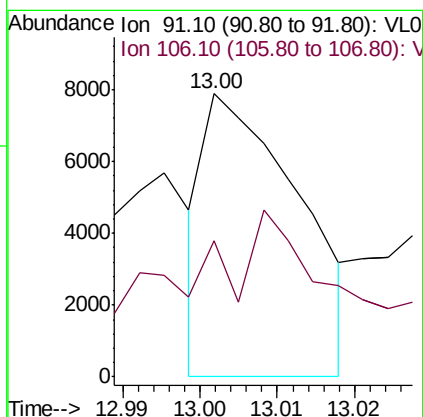
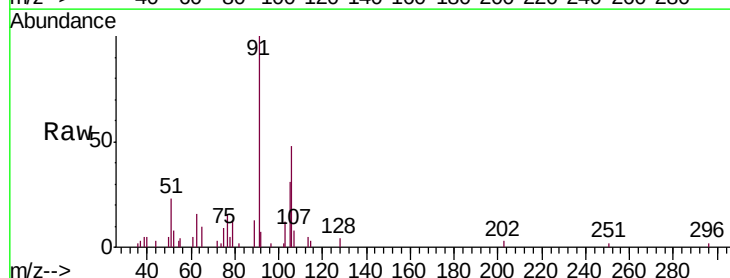
Instrument :
MSVOA_L
ClientSampleId :
ROOFTOP-BRW

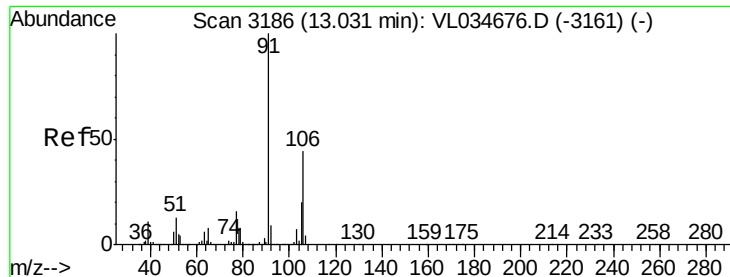
Tgt Ion:117 Resp: 1795406
Ion Ratio Lower Upper
117 100
82 70.5 54.1 81.1
119 33.6 27.6 41.4



#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 13.00 min Scan# 3177
Delta R.T. 0.26 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Tgt Ion: 91 Resp: 6721
Ion Ratio Lower Upper
91 100
106 32.7 24.0 36.0

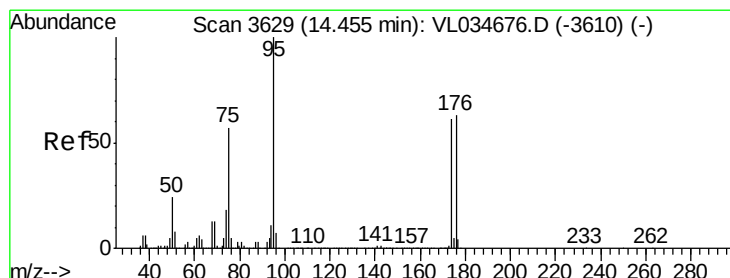
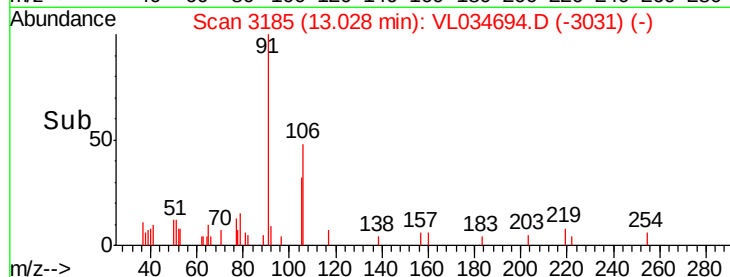
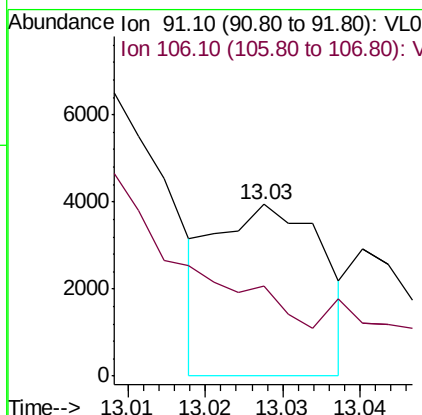
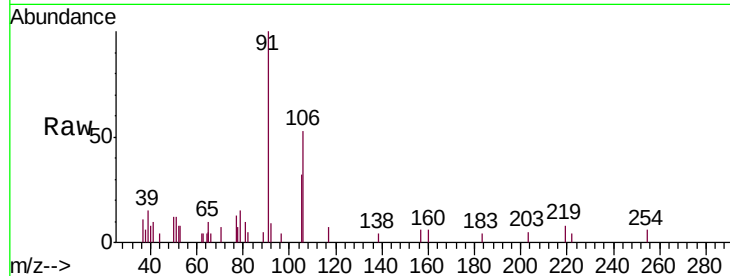




#59
m/p-Xylene
Concen: 0.020 ppbv
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Instrument :
MSVOA_L
ClientSampleId :
ROOFTOP-BRW

Tgt Ion: 91 Resp: 3808
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.460 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. -0.00 min
Lab File: VL034694.D
Acq: 26 Feb 2020 19:12

Tgt Ion: 95 Resp: 1539910
Ion Ratio Lower Upper
95 100
174 63.8 50.7 76.1
175 4.5 3.9 5.9

