

Data File : VL034692.D
Acq On : 26 Feb 2020 17:52
Operator : SY/AP
Sample : L1664-02DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CR-104-BRWDUP

Quant Time: Feb 27 07:28:55 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	886914	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1825197	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1819357	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1534854 10.29 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.90%

Target Compounds						Qvalue
3) Chlorodifluoromethane	2.95	51	48314	0.505	ppbv #	91
4) Chloromethane	3.11	50	29687	0.554	ppbv #	88
9) Propene	3.17	41	96317	2.407	ppbv	99
10) Heptane	8.13	43	2520	0.024	ppbv #	1
11) Trichlorofluoromethane	3.93	101	34311	0.280	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4348	0.050	ppbv #	44
13) Ethanol	3.58	45	156801	12.406	ppbv #	50
15) Acetone	3.83	43	466724	4.618	ppbv	96
16) 1,3-Butadiene	3.29	39	2504	0.054	ppbv #	1
19) Isopropyl Alcohol	3.96	45	47431	0.788	ppbv #	82
20) Methylene Chloride	4.33	84	104600	2.783	ppbv	99
21) Allyl Chloride	4.36	41	1524	0.023	ppbv #	1
23) Vinyl Acetate	5.06	43	4180	0.030	ppbv #	72
25) Ethyl Acetate	5.68	43	106329	0.594	ppbv #	80
26) Hexane	5.68	57	145006	1.759	ppbv #	41
34) 2-Butanone	5.23	43	2802	0.024	ppbv #	53
35) Carbon Tetrachloride	7.03	117	3939	0.032	ppbv #	28
36) Benzene	6.90	78	50071	0.318	ppbv	99
39) 1,2-Dichloropropane	7.18	63	529076	8.436	ppbv #	23
44) 2,2,4-Trimethylpentane	7.87	57	10522	0.038	ppbv #	1
53) Toluene	9.83	91	544169	3.246	ppbv	99
58) Ethyl Benzene	13.02	91	5299	0.024	ppbv	91
61) Styrene	13.57	104	5046	0.041	ppbv #	33

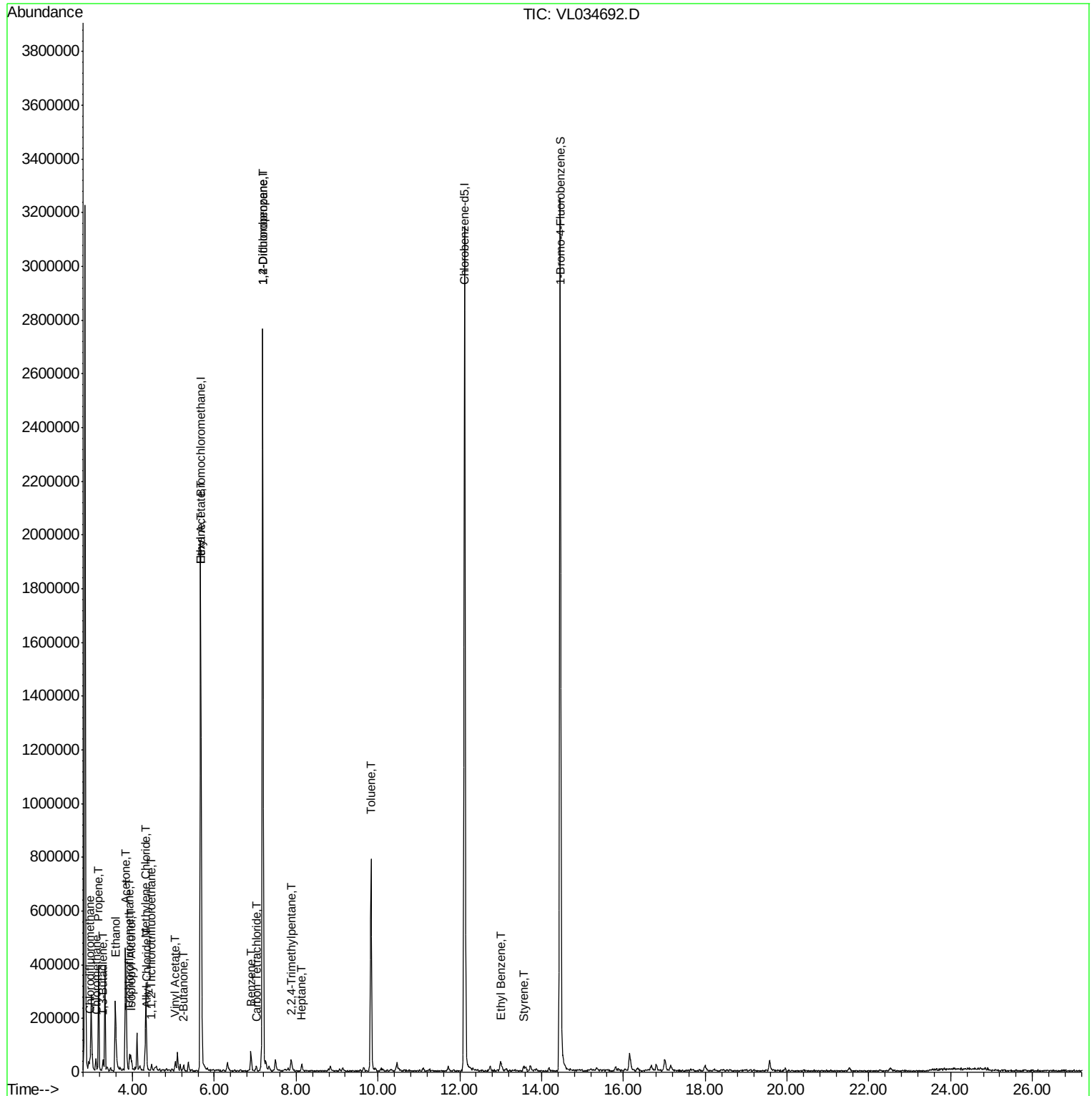
(#) = qualifier out of range (m) = manual integration (+) = signals summed

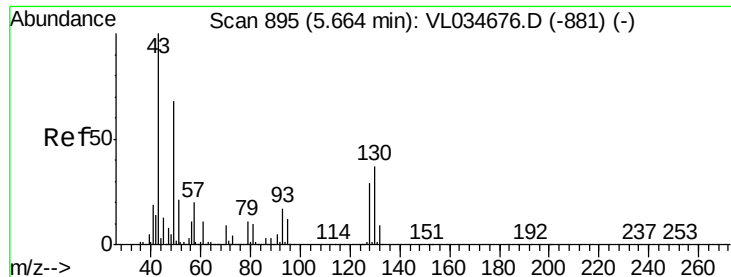
Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

CR-104-BRWDUP

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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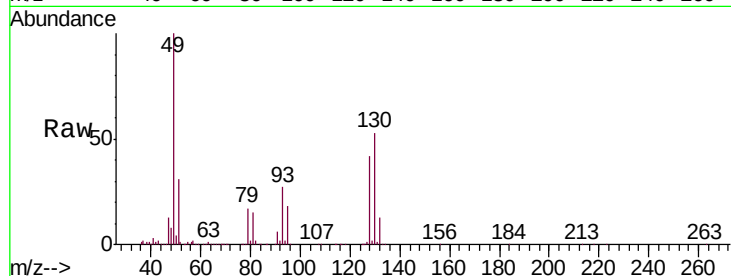
Tgt Ion: 49 Resp: 886914

Ion Ratio Lower Upper

49 100

128 42.9 21.6 65.0

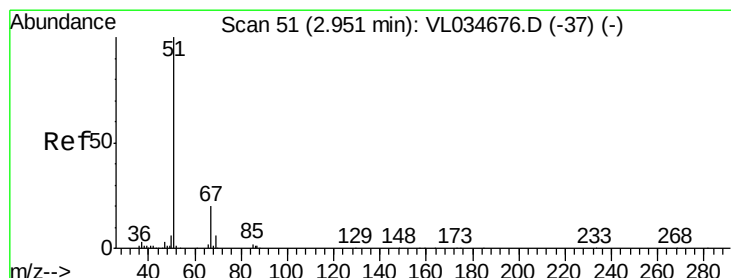
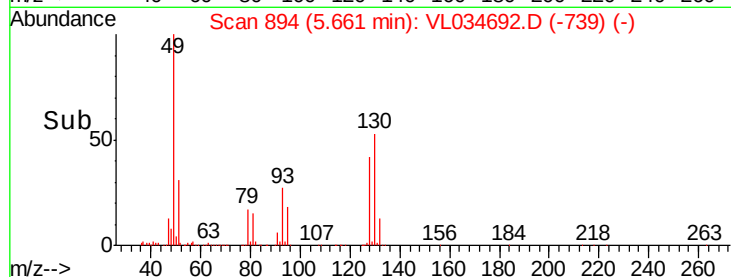
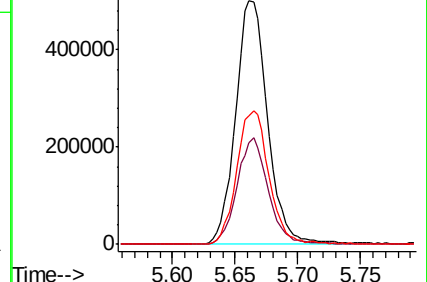
130 55.9 27.7 83.1



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



#3

Chlorodifluoromethane

Concen: 0.505 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034692.D

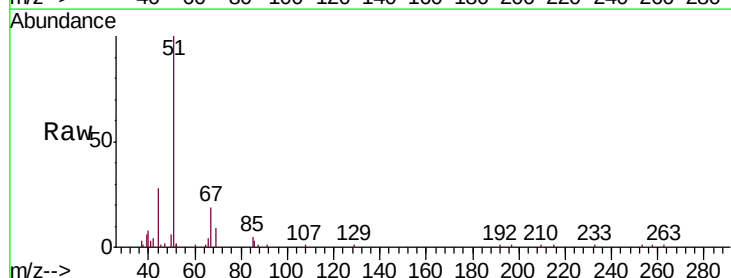
Acq: 26 Feb 2020 17:52

Tgt Ion: 51 Resp: 48314

Ion Ratio Lower Upper

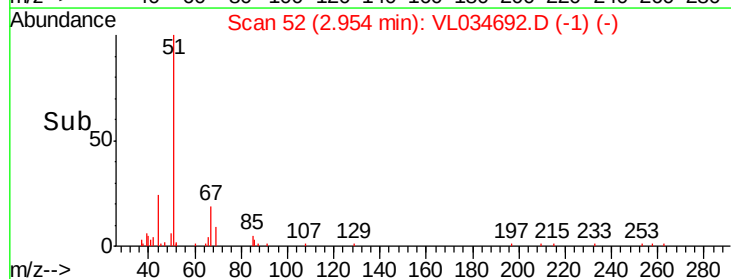
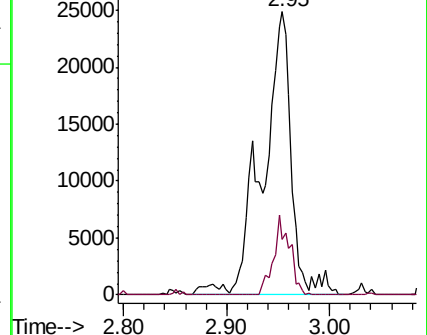
51 100

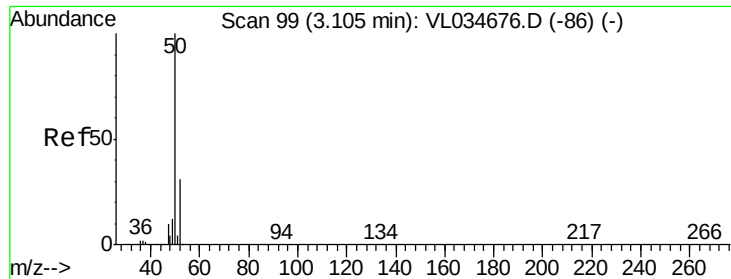
67 15.5 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.554 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

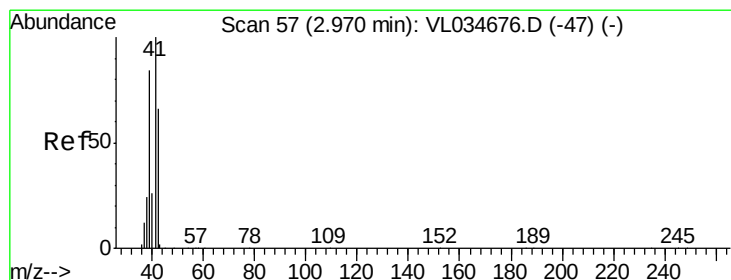
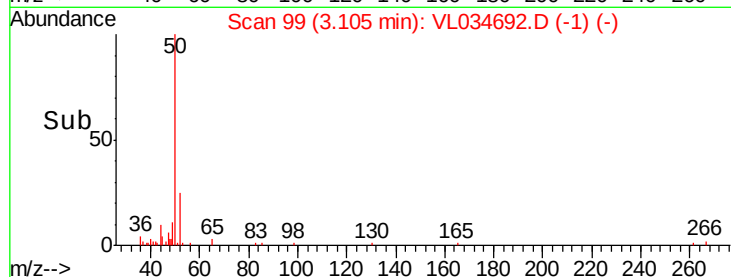
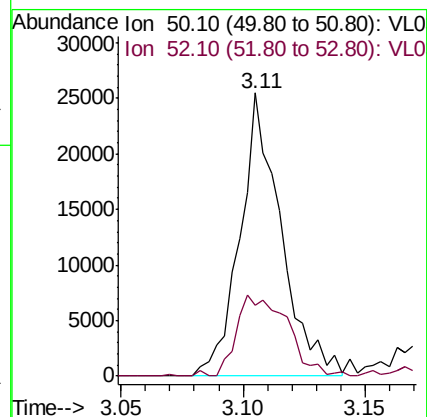
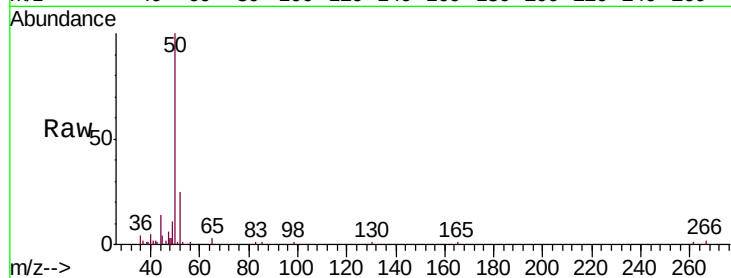
CR-104-BRWDUP

Tgt Ion: 50 Resp: 29687

Ion Ratio Lower Upper

50 100

52 24.8 25.0 37.4#



#9

Propene

Concen: 2.407 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.20 min

Lab File: VL034692.D

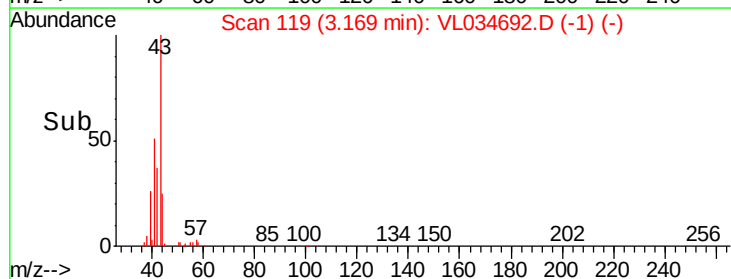
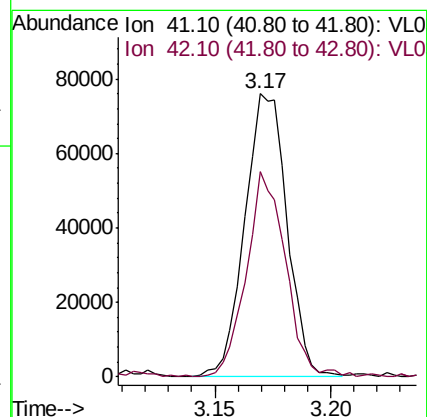
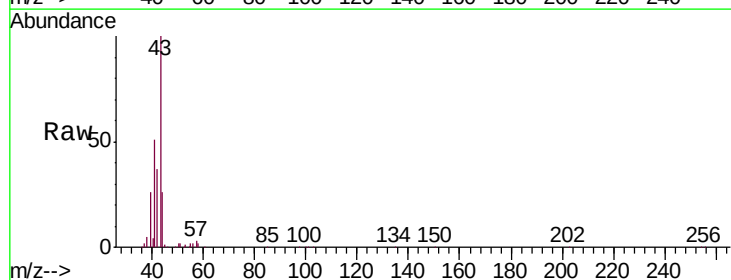
Acq: 26 Feb 2020 17:52

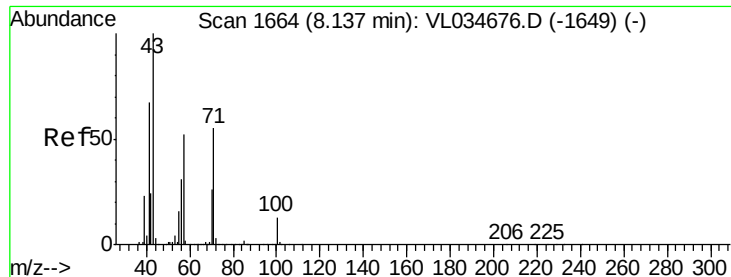
Tgt Ion: 41 Resp: 96317

Ion Ratio Lower Upper

41 100

42 67.7 54.9 82.3

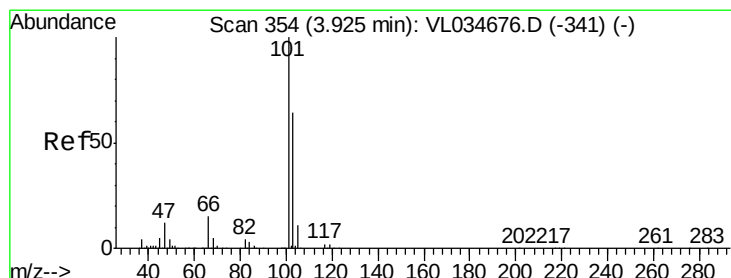
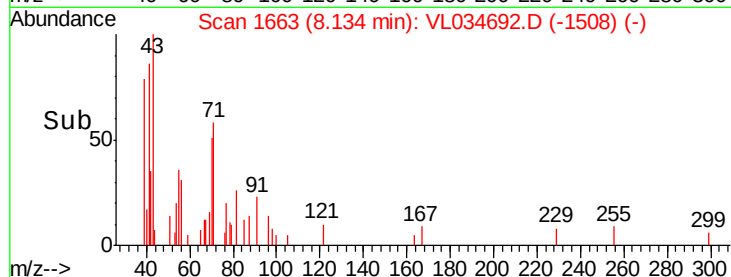
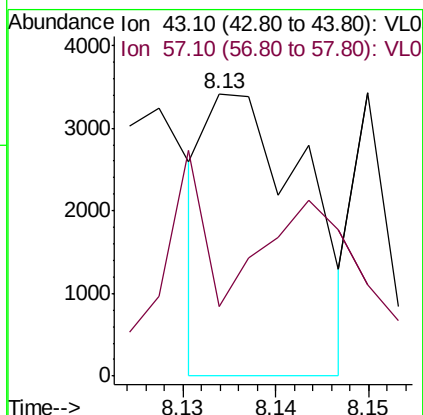
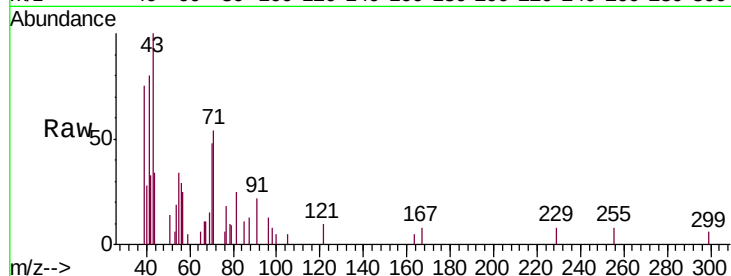




#10
 Heptane
 Concen: 0.024 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: VL034692.D
 Acq: 26 Feb 2020 17:52

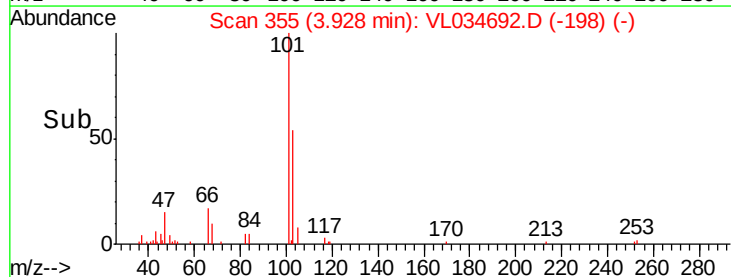
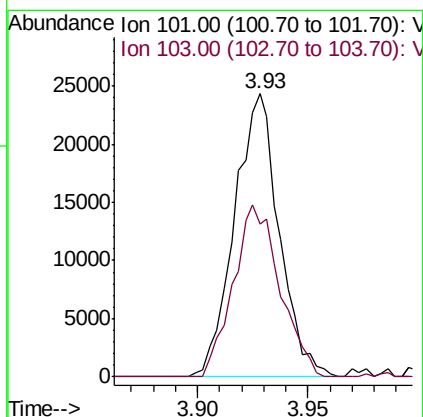
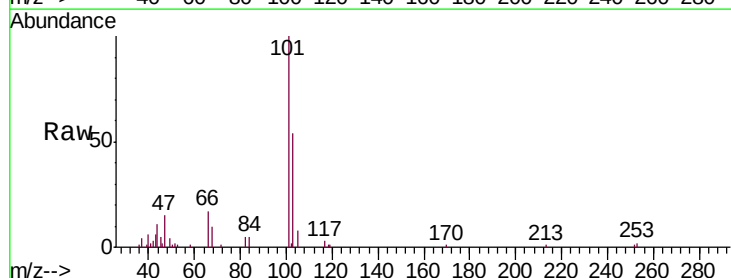
Instrument :
 MSVOA_L
 ClientSampleId :
 CR-104-BRWDUP

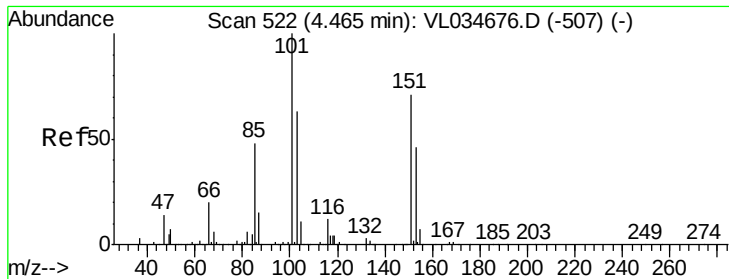
Tgt Ion: 43 Resp: 2520
 Ion Ratio Lower Upper
 43 100
 57 150.2 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.280 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.00 min
 Lab File: VL034692.D
 Acq: 26 Feb 2020 17:52

Tgt Ion: 101 Resp: 34311
 Ion Ratio Lower Upper
 101 100
 103 54.1 51.2 76.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.47 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

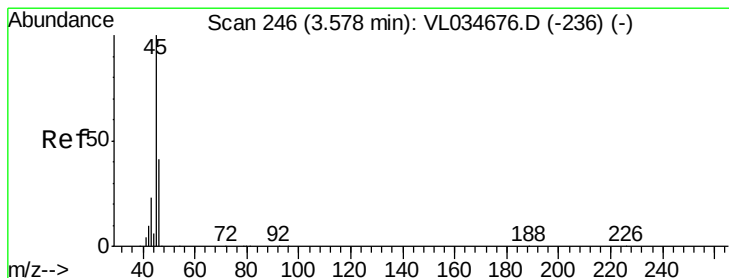
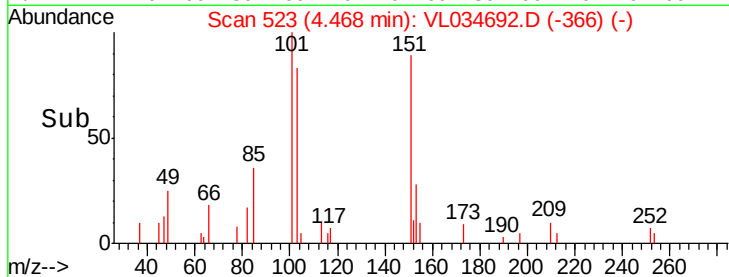
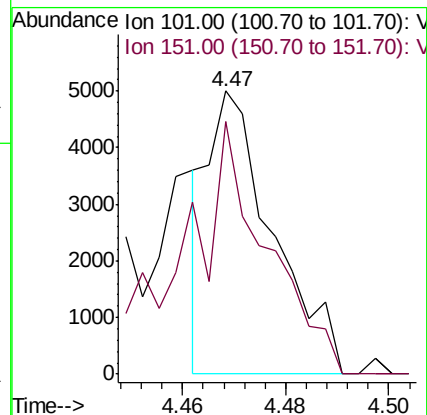
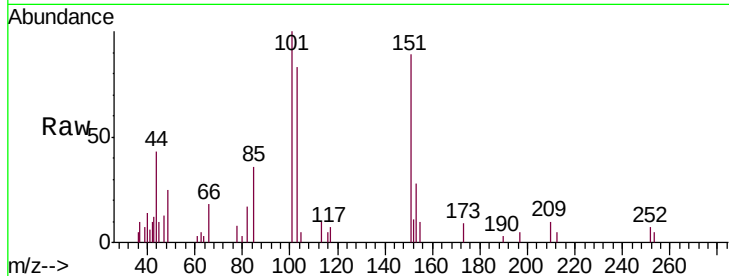
CR-104-BRWDUP

Tgt Ion:101 Resp: 4348

Ion Ratio Lower Upper

101 100

151 115.5 55.8 83.6#



#13

Ethanol

Concen: 12.406 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.00 min

Lab File: VL034692.D

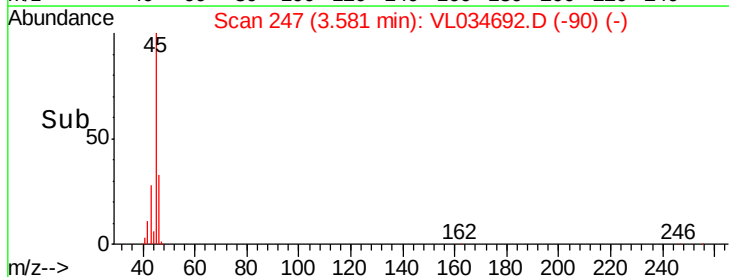
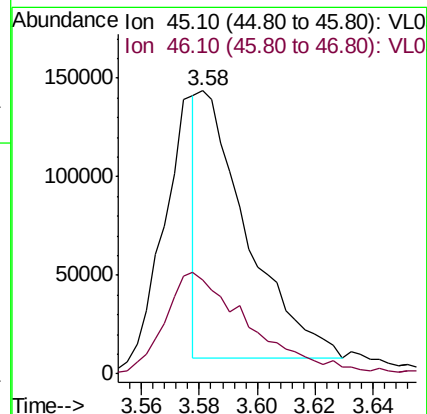
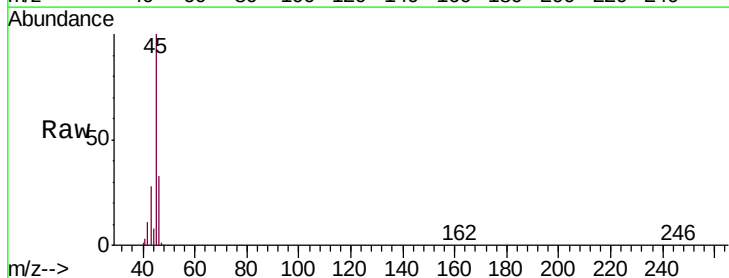
Acq: 26 Feb 2020 17:52

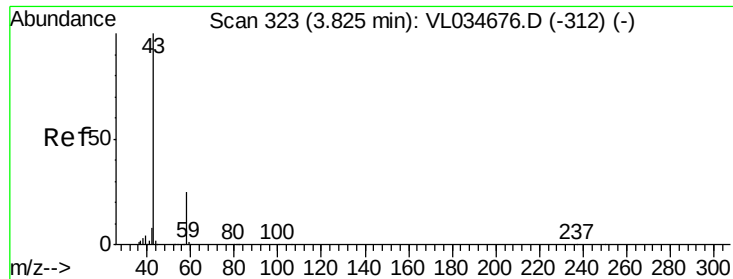
Tgt Ion: 45 Resp: 156801

Ion Ratio Lower Upper

45 100

46 68.8 15.4 61.4#

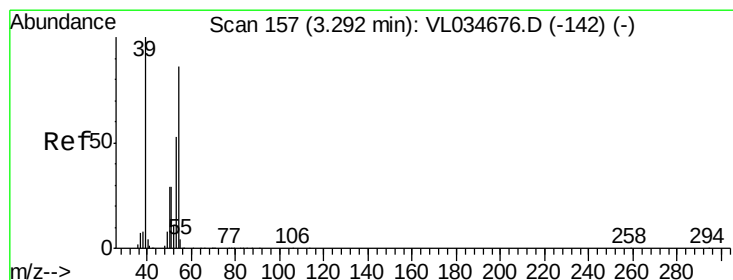
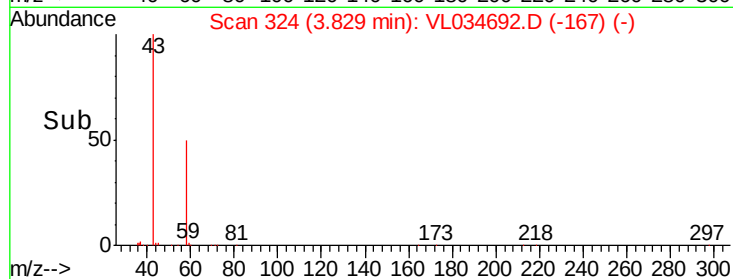
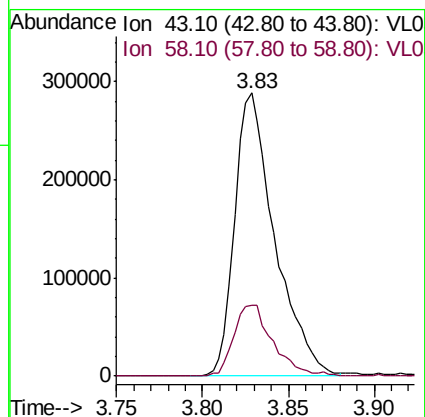
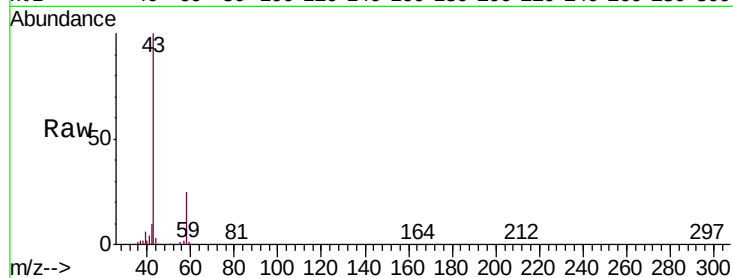




#15
Acetone
Concen: 4.618 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.00 min
Lab File: VL034692.D
Acq: 26 Feb 2020 17:52

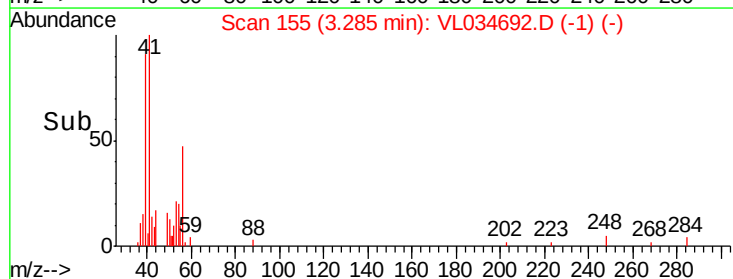
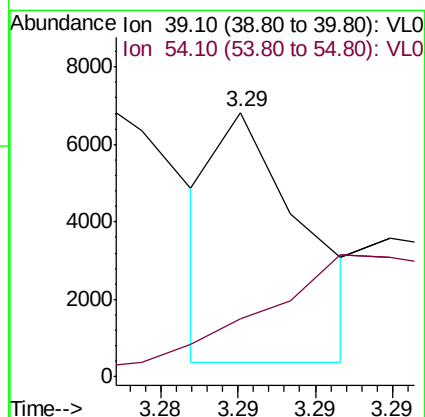
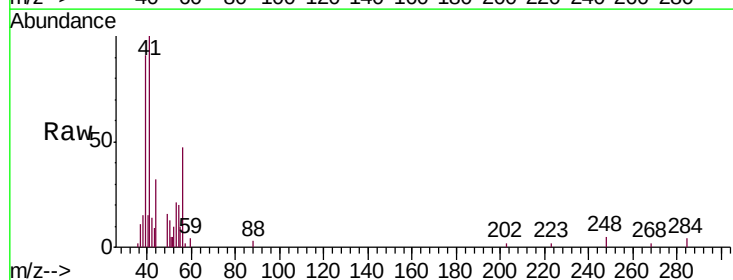
Instrument :
MSVOA_L
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CR-104-BRWDUP

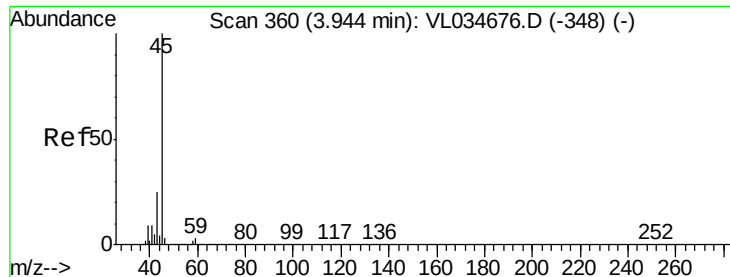
Tgt Ion: 43 Resp: 466724
Ion Ratio Lower Upper
43 100
58 24.8 21.4 32.0



#16
1,3-Butadiene
Concen: 0.054 ppbv
RT: 3.29 min Scan# 155
Delta R.T. -0.01 min
Lab File: VL034692.D
Acq: 26 Feb 2020 17:52

Tgt Ion: 39 Resp: 2504
Ion Ratio Lower Upper
39 100
54 217.3 67.0 100.6#





#19

Isopropyl Alcohol

Concen: 0.788 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

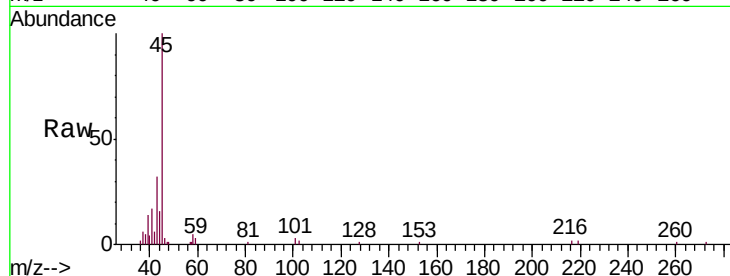
CR-104-BRWDUP

Tgt Ion: 45 Resp: 47431

Ion Ratio Lower Upper

45 100

58 8.4 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

30000

25000

20000

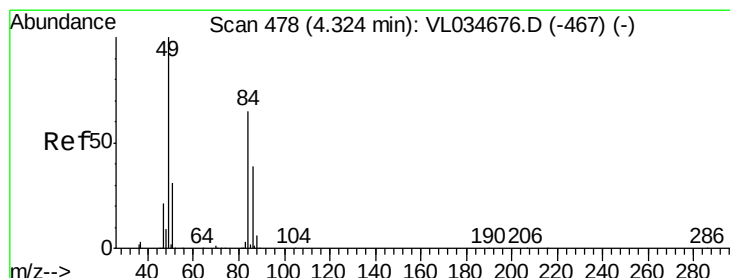
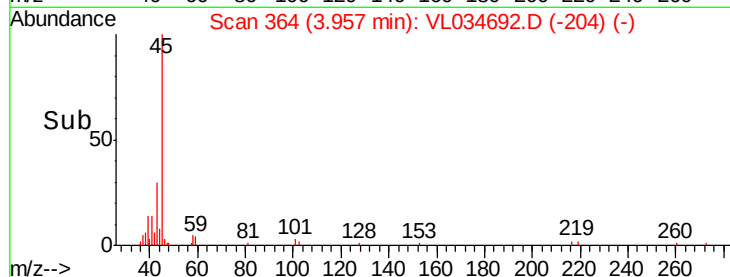
15000

10000

5000

0

Time--> 3.90 3.95 4.00



#20

Methylene Chloride

Concen: 2.783 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Tgt Ion: 84 Resp: 104600

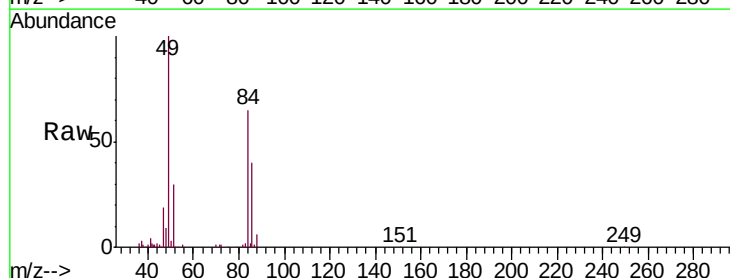
Ion Ratio Lower Upper

84 100

49 153.3 122.8 184.2

51 46.3 38.6 58.0

86 61.8 47.7 71.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

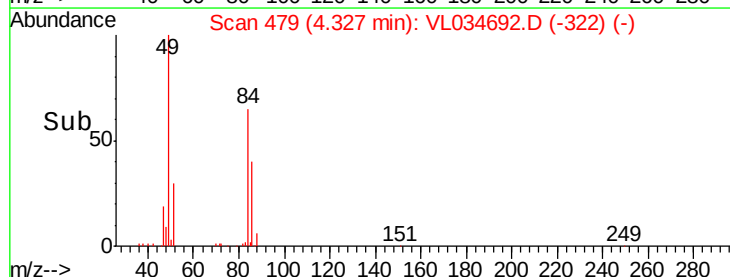
150000

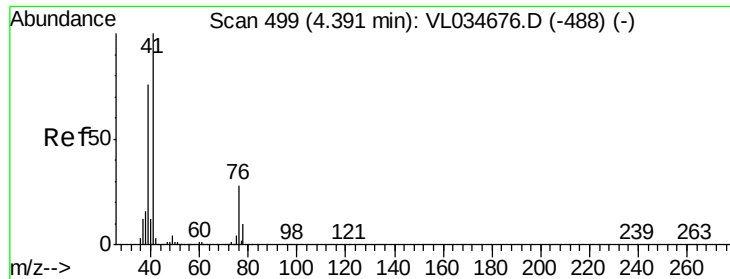
100000

50000

0

Time--> 4.30 4.35 4.40





#21

Allyl Chloride

Concen: 0.023 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.04 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

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CR-104-BRWDUP

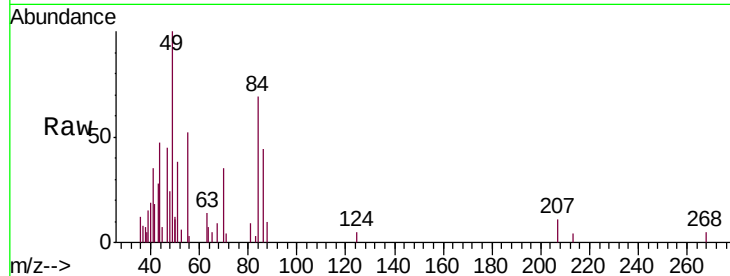
Tgt Ion: 41 Resp: 1524

Ion Ratio Lower Upper

41 100

76 0.0 22.8 34.2#

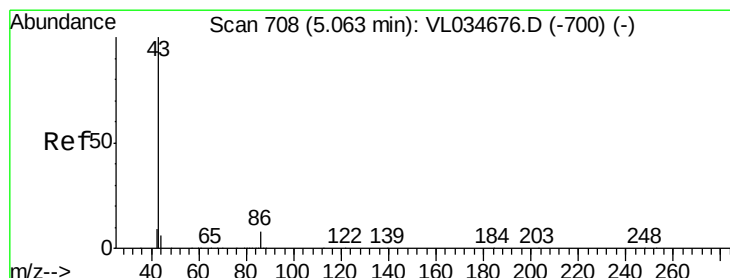
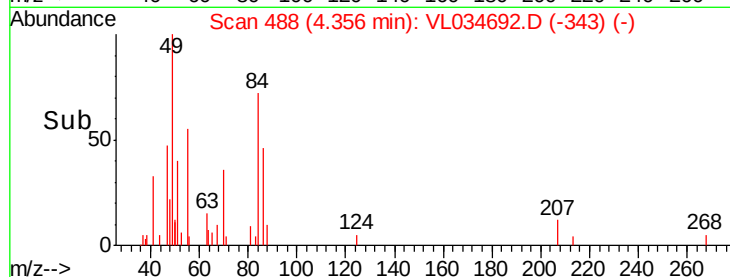
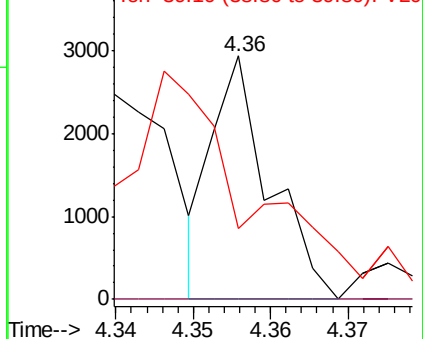
39 265.6 61.7 92.5#



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



#23

Vinyl Acetate

Concen: 0.030 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Tgt Ion: 43 Resp: 4180

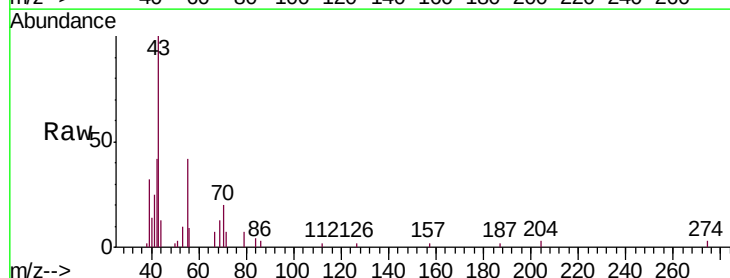
Ion Ratio Lower Upper

43 100

86 4.9 6.0 9.0#

42 31.4 8.0 12.0#

44 4.5 4.5 6.7

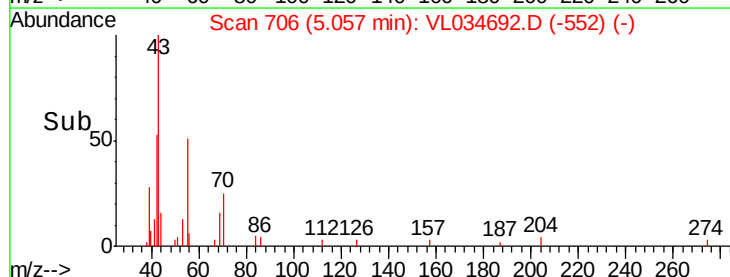
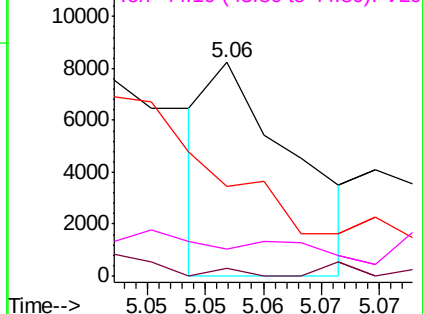


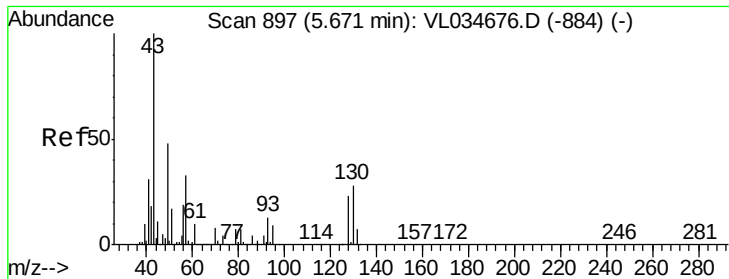
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.594 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

CR-104-BRWDUP

Tgt Ion: 43 Resp: 106329

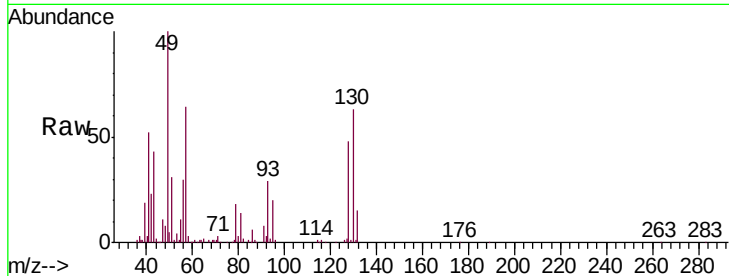
Ion Ratio Lower Upper

43 100

45 2.3 8.2 12.4#

61 1.4 7.8 11.6#

70 2.4 6.1 9.1#

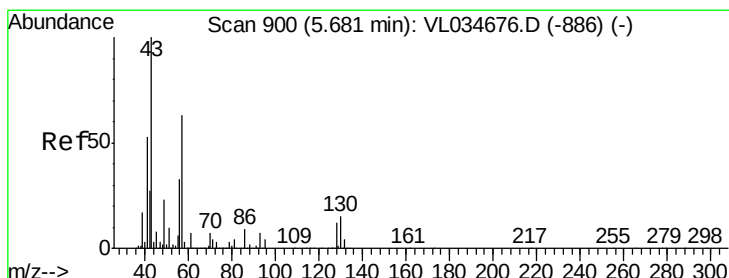
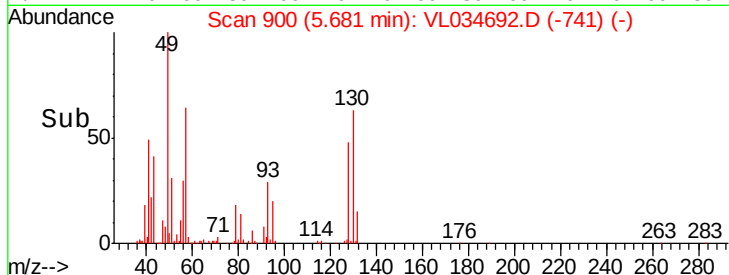
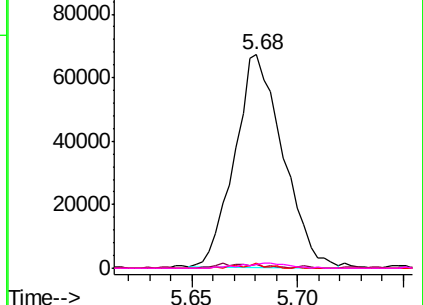


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.759 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Tgt Ion: 57 Resp: 145006

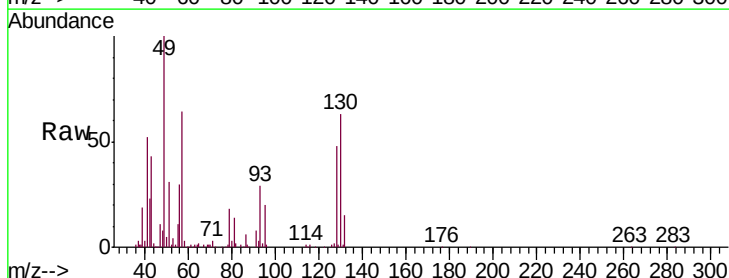
Ion Ratio Lower Upper

57 100

41 96.5 70.3 105.5

43 75.3 177.0 265.4#

56 59.4 42.6 64.0

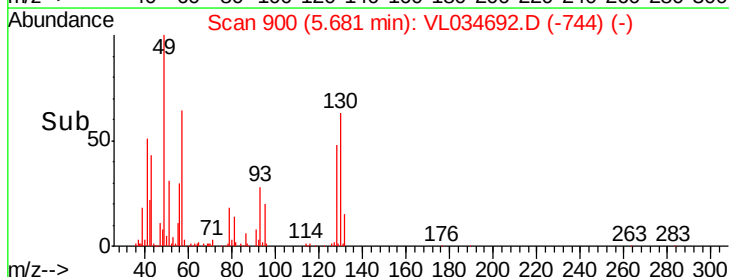
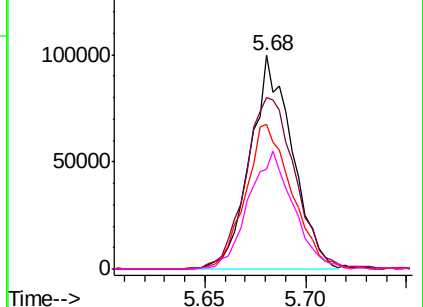


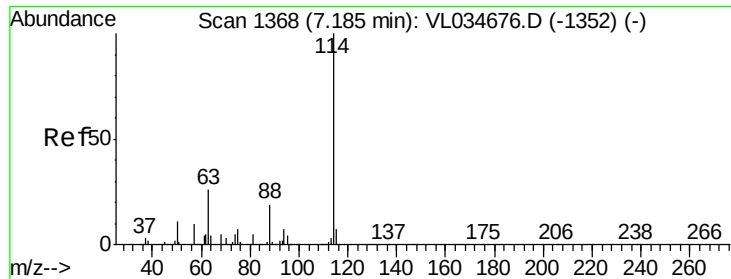
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

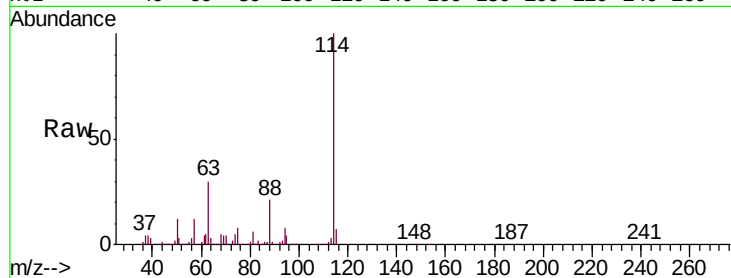




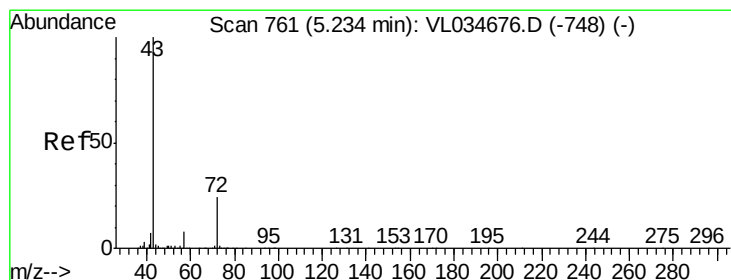
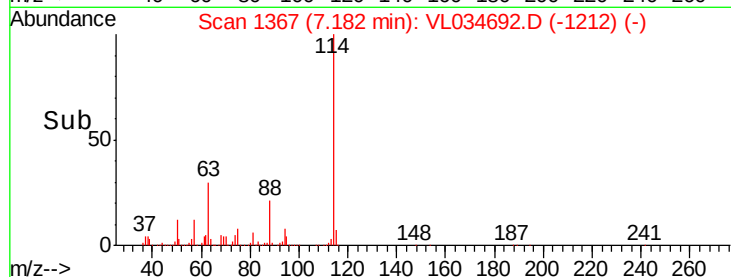
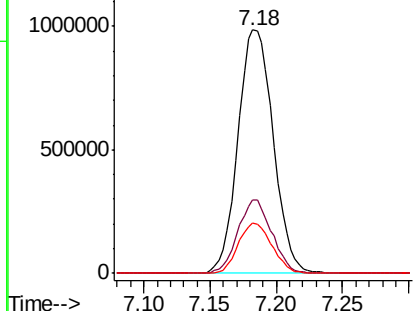
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034692.D
 Acq: 26 Feb 2020 17:52

Instrument :
 MSVOA_L
 ClientSampleId :
 CR-104-BRWDUP

Tgt Ion:114 Resp: 1825197
 Ion Ratio Lower Upper
 114 100
 63 29.1 22.9 34.3
 88 19.8 15.8 23.6

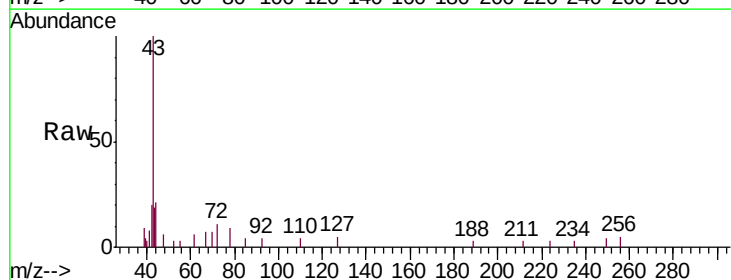


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

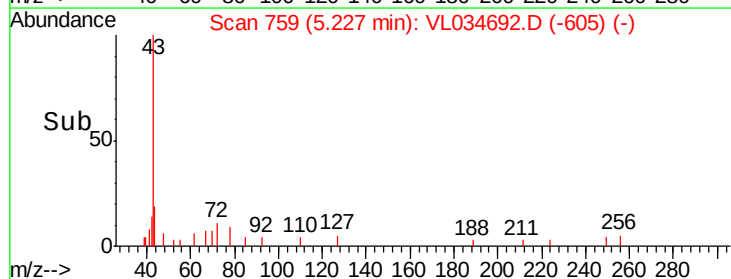
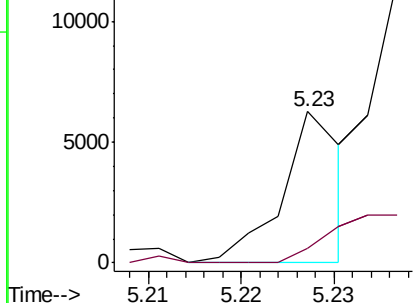


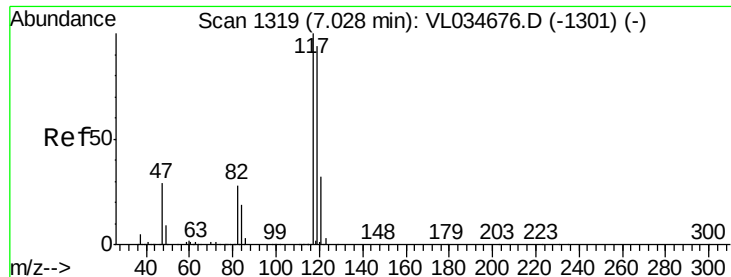
#34
 2-Butanone
 Concen: 0.024 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL034692.D
 Acq: 26 Feb 2020 17:52

Tgt Ion: 43 Resp: 2802
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

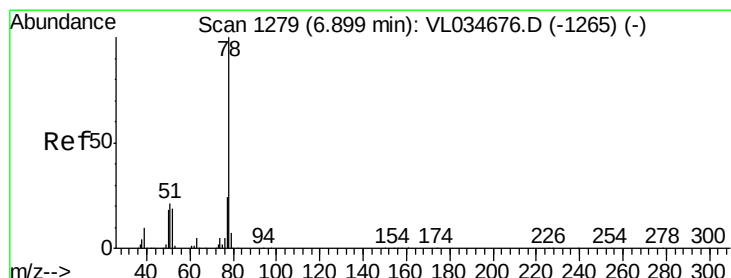
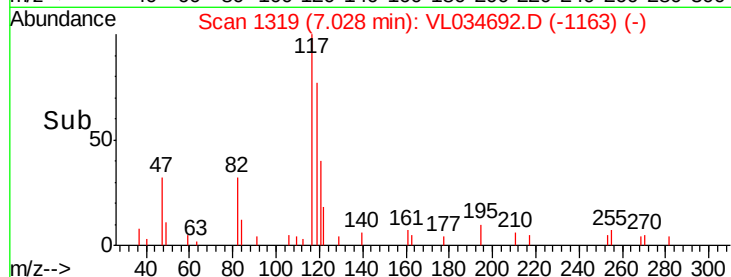
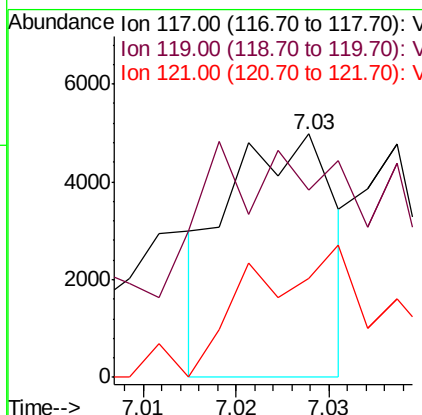
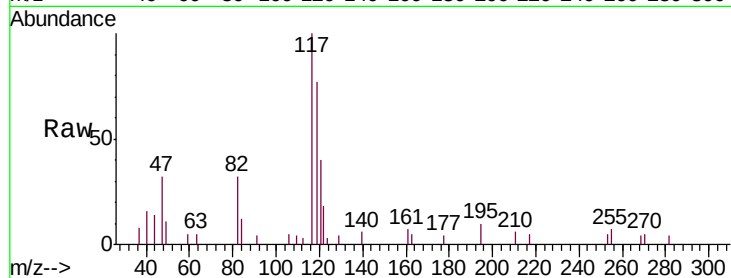




#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VL034692.D
Acq: 26 Feb 2020 17:52

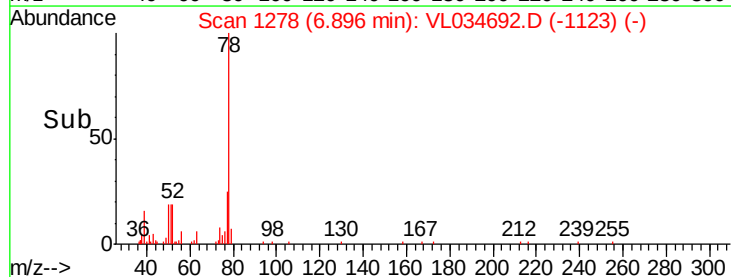
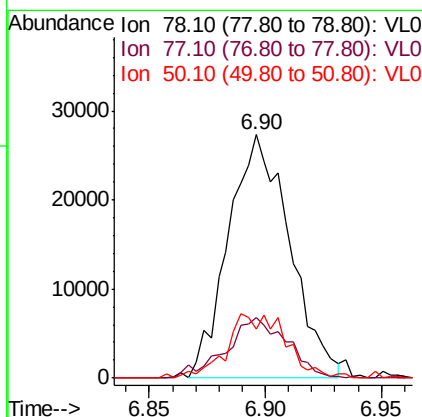
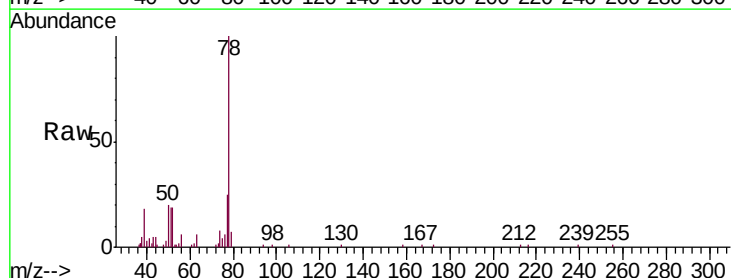
Instrument :
MSVOA_L
ClientSampleId :
CR-104-BRWDUP

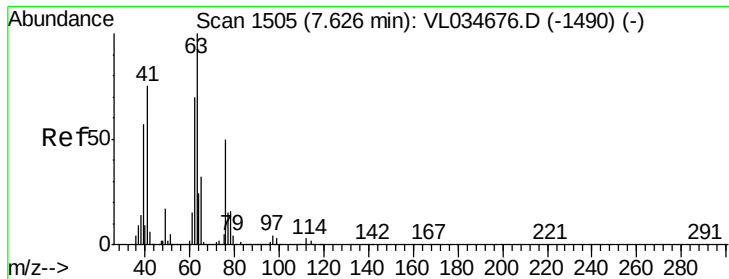
Tgt Ion: 117 Resp: 3939
Ion Ratio Lower Upper
117 100
119 42.5 75.5 113.3#
121 102.1 25.4 38.0#



#36
Benzene
Concen: 0.318 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL034692.D
Acq: 26 Feb 2020 17:52

Tgt Ion: 78 Resp: 50071
Ion Ratio Lower Upper
78 100
77 24.1 19.5 29.3
50 17.5 14.6 21.8





#39

1,2-Dichloropropane

Concen: 8.436 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.44 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

CR-104-BRWDUP

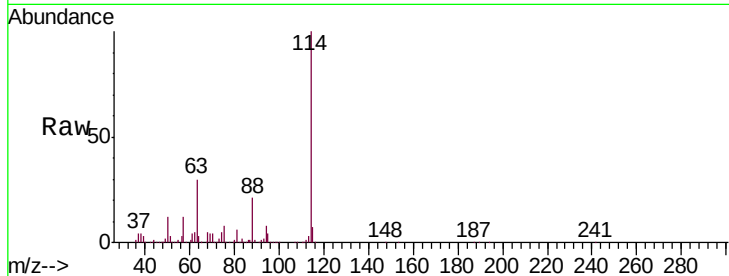
Tgt Ion: 63 Resp: 529076

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

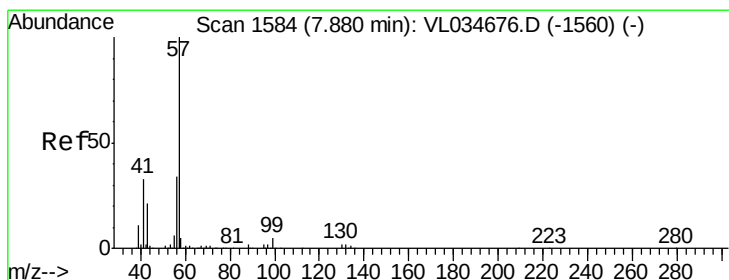
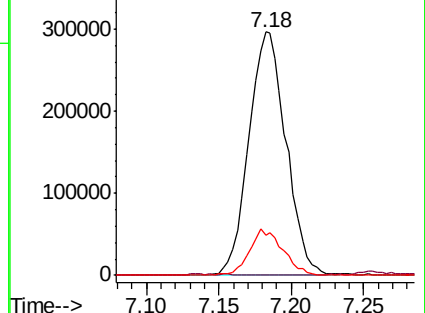
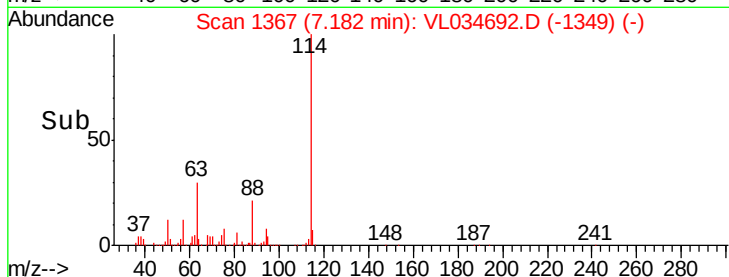
62 16.2 56.3 84.5#



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: 0.038 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

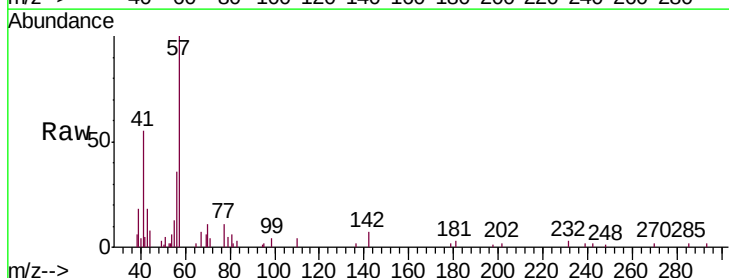
Tgt Ion: 57 Resp: 10522

Ion Ratio Lower Upper

57 100

41 140.0 26.0 39.0#

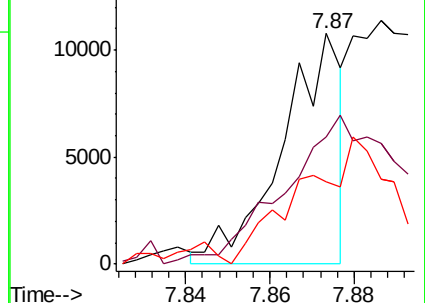
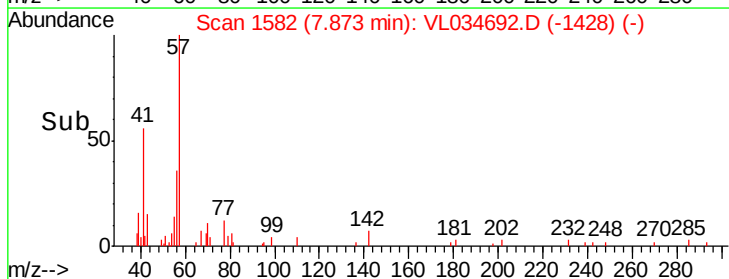
56 117.8 25.6 38.4#

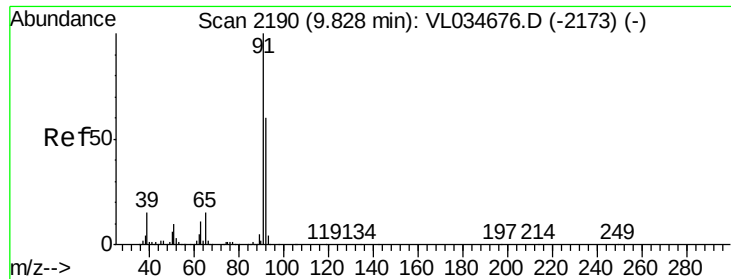


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 3.246 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

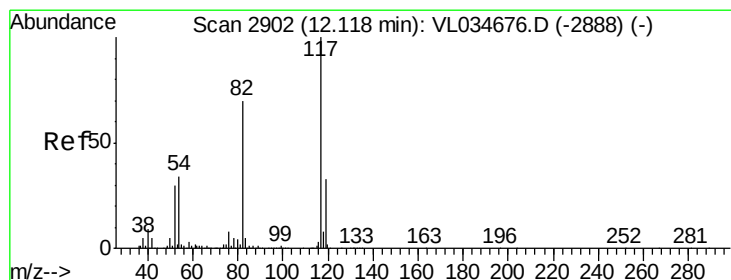
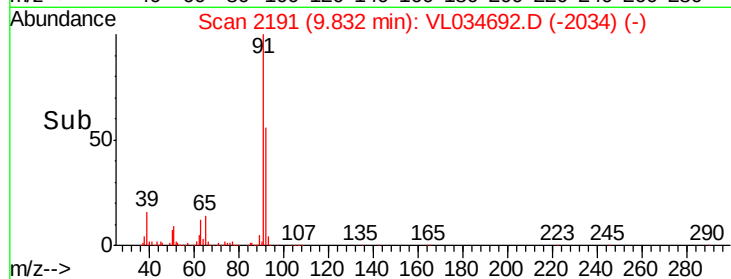
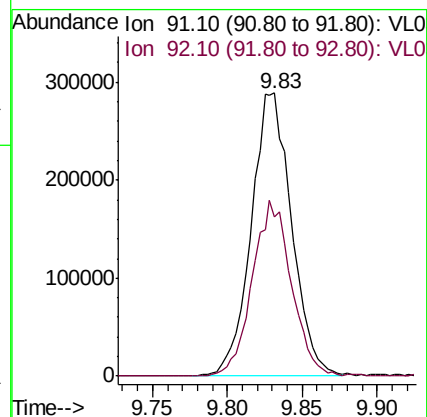
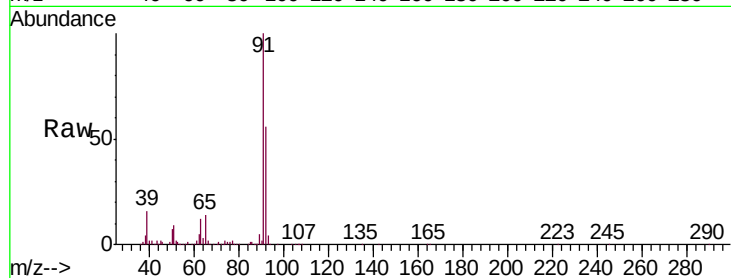
CR-104-BRWDUP

Tgt Ion: 91 Resp: 544169

Ion Ratio Lower Upper

91 100

92 60.1 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: VL034692.D

Acq: 26 Feb 2020 17:52

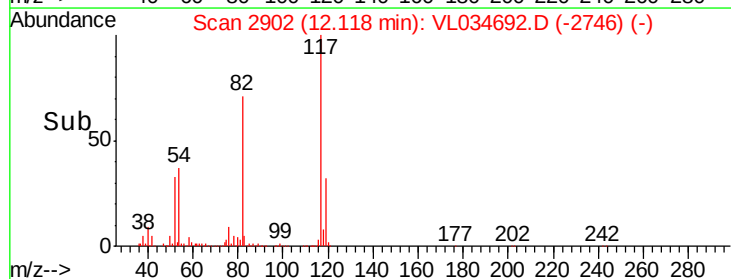
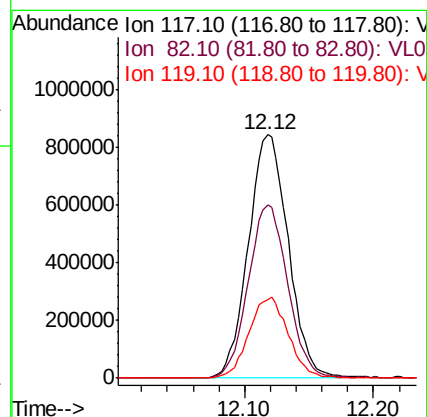
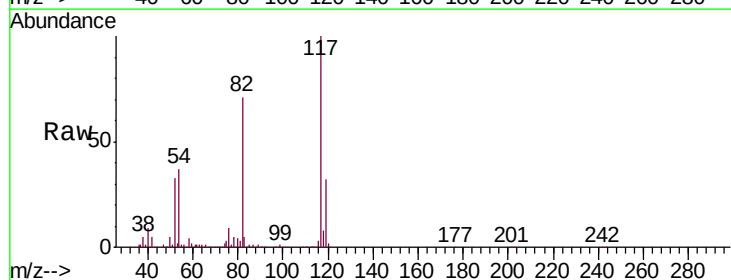
Tgt Ion: 117 Resp: 1819357

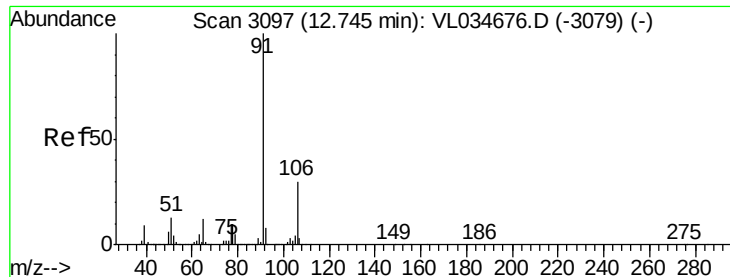
Ion Ratio Lower Upper

117 100

82 71.3 54.1 81.1

119 32.7 27.6 41.4





#58

Ethyl Benzene

Concen: 0.024 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. 0.28 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

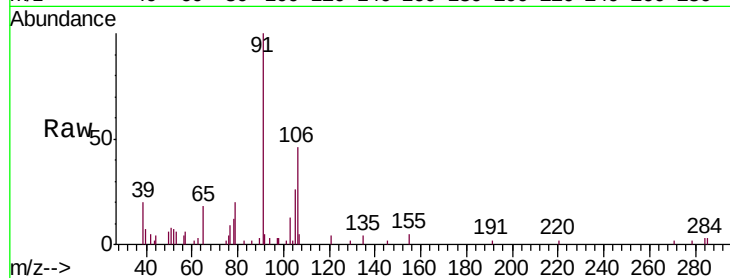
CR-104-BRWDUP

Tgt Ion: 91 Resp: 5299

Ion Ratio Lower Upper

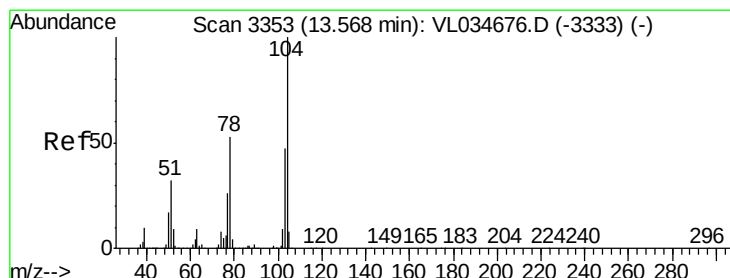
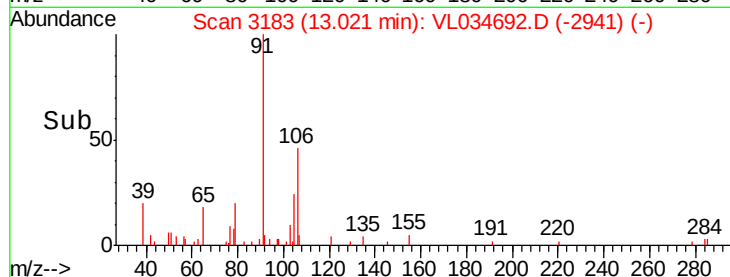
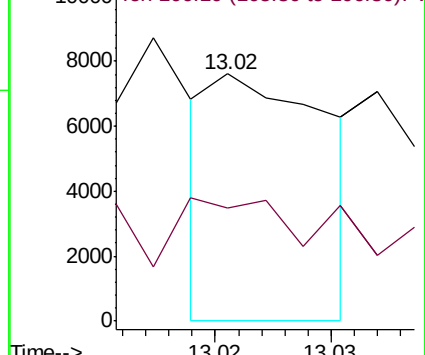
91 100

106 25.2 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.041 ppbv

RT: 13.57 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

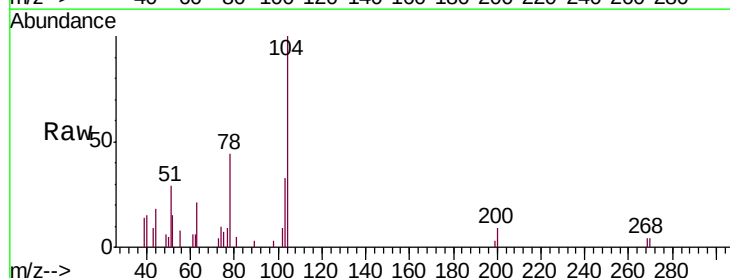
Tgt Ion: 104 Resp: 5046

Ion Ratio Lower Upper

104 100

78 0.0 44.2 66.4#

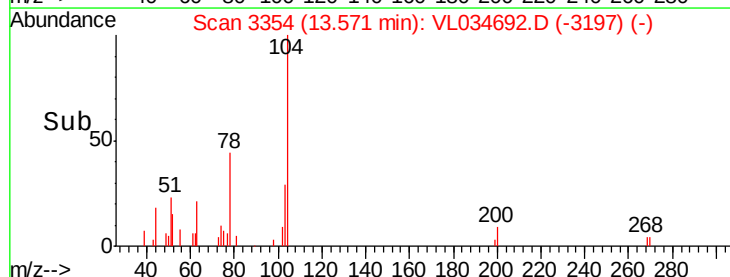
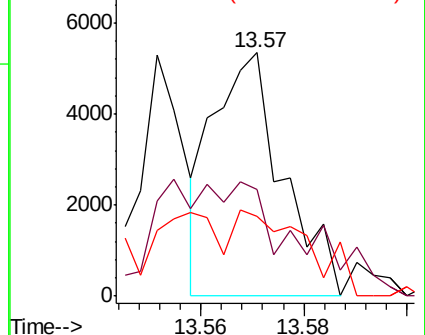
103 84.2 37.4 56.0#

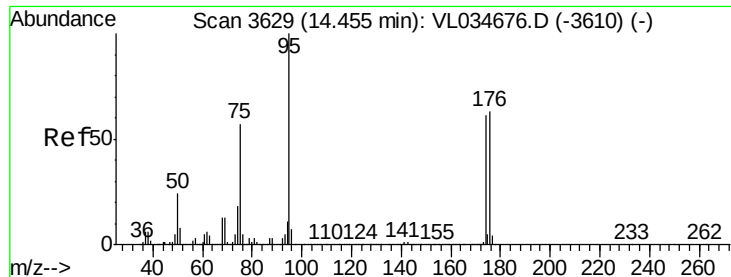


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.289 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034692.D

Acq: 26 Feb 2020 17:52

Instrument :

MSVOA_L

ClientSampleId :

CR-104-BRWDUP

Tgt Ion: 95 Resp: 1534854

Ion Ratio Lower Upper

95 100

174 63.8 50.7 76.1

175 4.7 3.9 5.9

