

Data File : VL033693.D
Acq On : 14 May 2019 16:16
Operator : SY/AP
Sample : K2730-01DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS01DL

Quant Time: May 15 02:35:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	971145	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2448841	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2523803	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1990535	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	3515	0.015	ppbv	99
3) Chlorodifluoromethane	3.02	51	3083	0.022	ppbv	96
4) Chloromethane	3.17	50	1334	0.018	ppbv #	84
9) Propene	3.24	41	44203	0.827	ppbv	93
10) Heptane	8.23	43	1537	0.012	ppbv #	26
13) Ethanol	3.66	45	35457	2.209	ppbv	99
15) Acetone	3.90	43	868015	6.008	ppbv	99
16) 1,3-Butadiene	3.36	39	706	0.011	ppbv #	1
17) tert-Butyl alcohol	4.38	59	2492	0.023	ppbv #	72
19) Isopropyl Alcohol	4.04	45	33954	0.383	ppbv #	93
20) Methylene Chloride	4.41	84	16098	0.293	ppbv #	74
23) Vinyl Acetate	5.14	43	2236	0.012	ppbv #	1
25) Ethyl Acetate	5.78	43	12160	0.052	ppbv #	78
26) Hexane	5.78	57	16498	0.163	ppbv #	39
27) Carbon Disulfide	4.62	76	7168	0.052	ppbv #	1
34) 2-Butanone	5.33	43	31822	0.203	ppbv #	83
36) Benzene	7.00	78	6262	0.029	ppbv #	90
39) 1,2-Dichloropropane	7.29	63	584044	7.136	ppbv #	23
53) Toluene	9.94	91	4522	0.019	ppbv #	21
74) 1,2,4-Trimethylbenzene	16.93	105	4395	0.012	ppbv #	47

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

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Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SS01DL

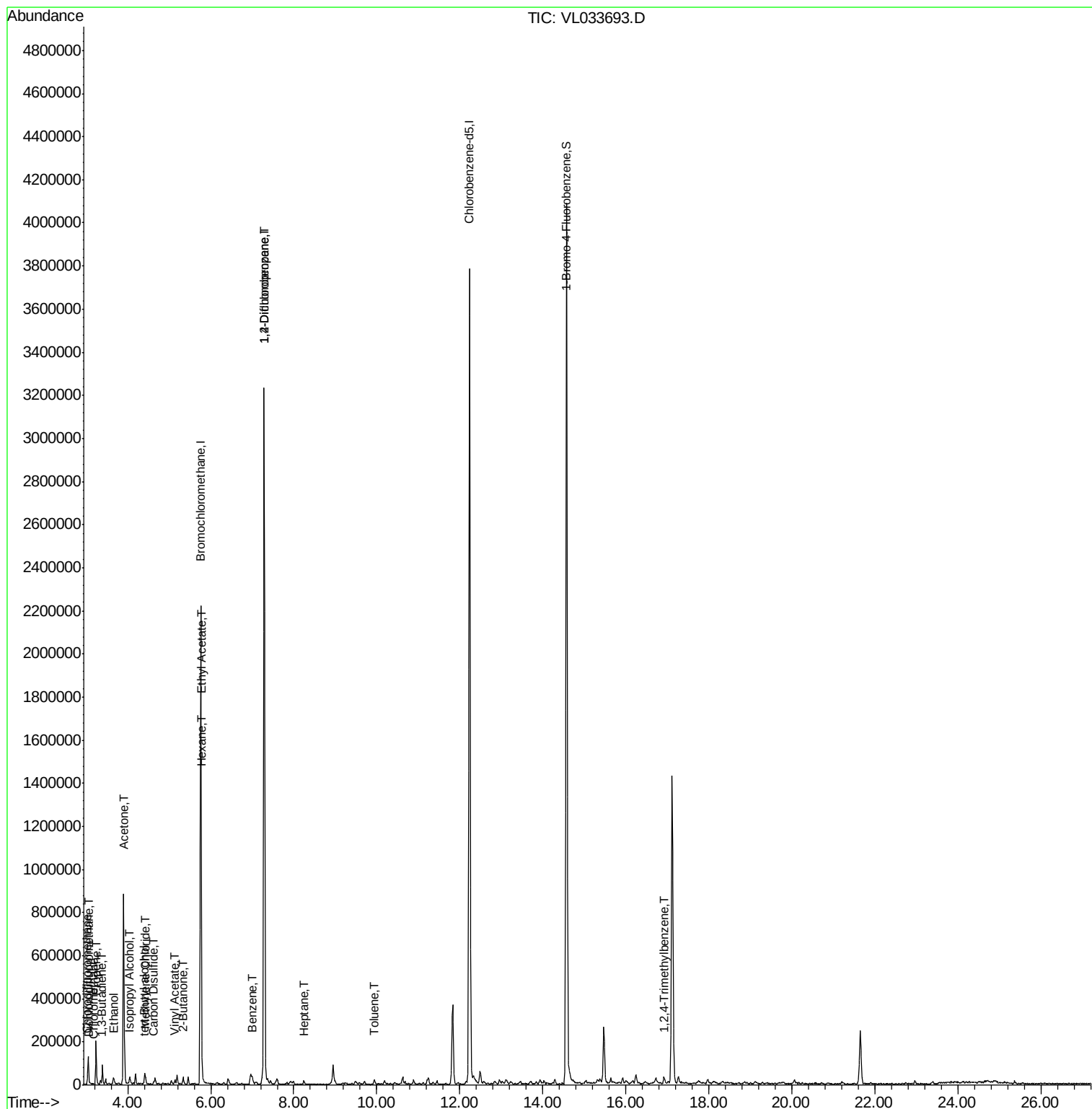
Quant Time: May 15 02:35:24 2019

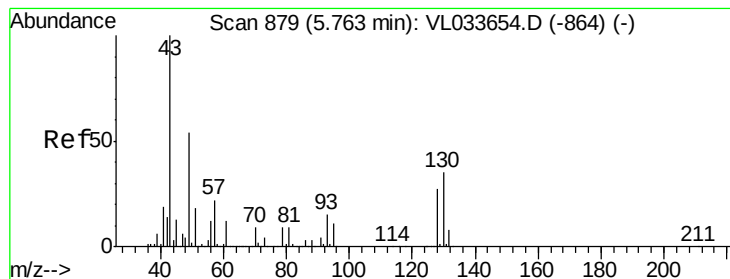
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019

QLast Update : Mon May 06 15:19:01 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033693.D

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Instrument :

MSVOA_L

ClientSampleID :

SS01DL

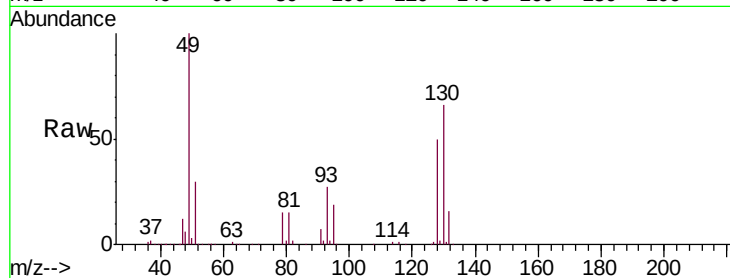
Tgt Ion: 49 Resp: 971145

Ion Ratio Lower Upper

49 100

128 52.7 24.8 74.3

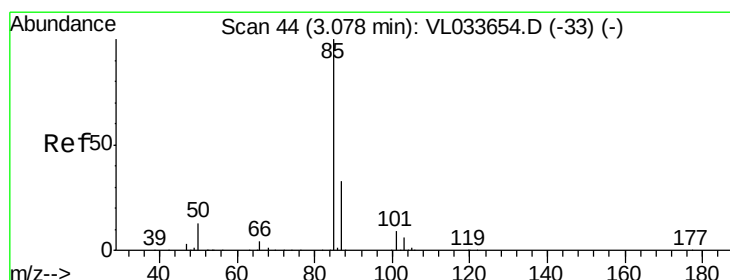
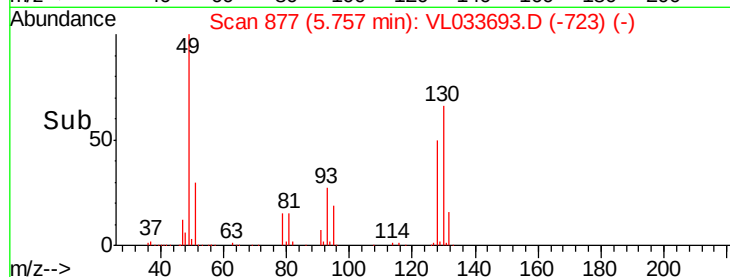
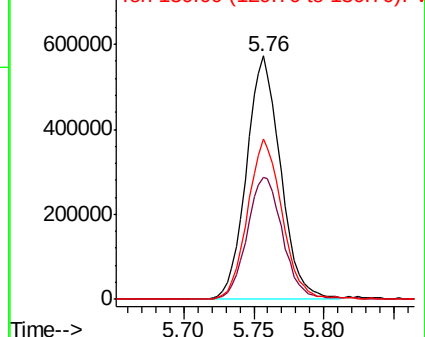
130 67.3 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.015 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033693.D

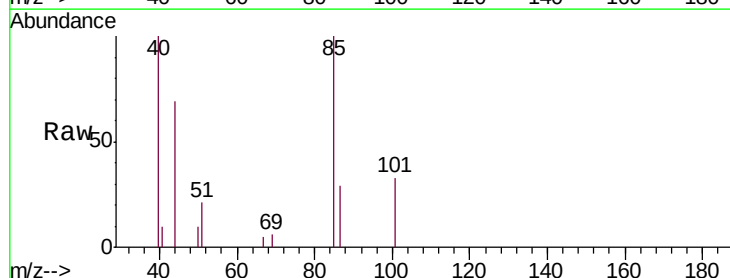
Acq: 14 May 2019 16:16

Tgt Ion: 85 Resp: 3515

Ion Ratio Lower Upper

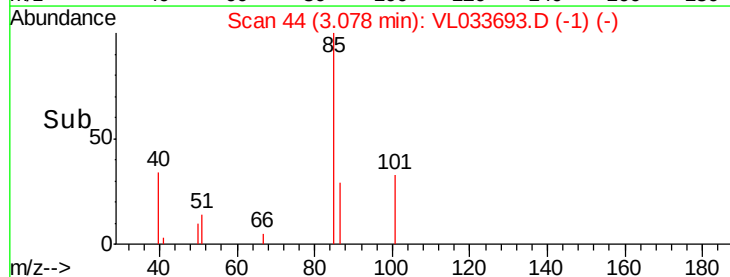
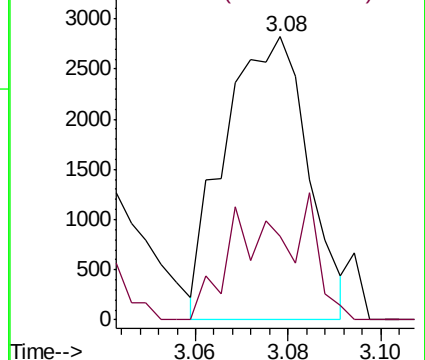
85 100

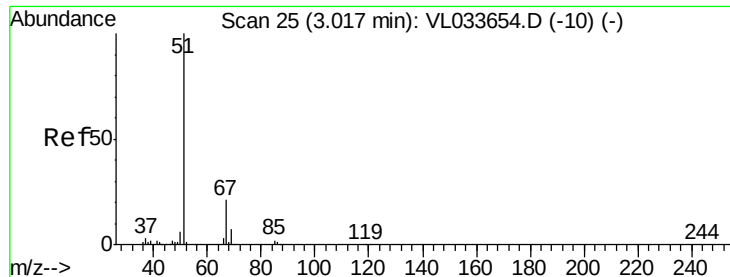
87 31.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.022 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

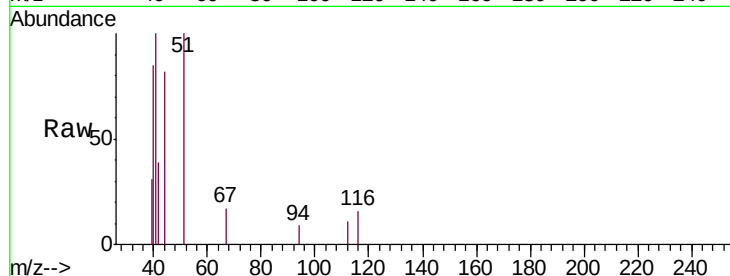
SS01DL

Tgt Ion: 51 Resp: 3083

Ion Ratio Lower Upper

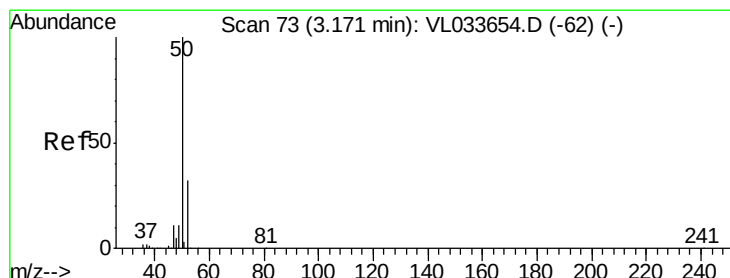
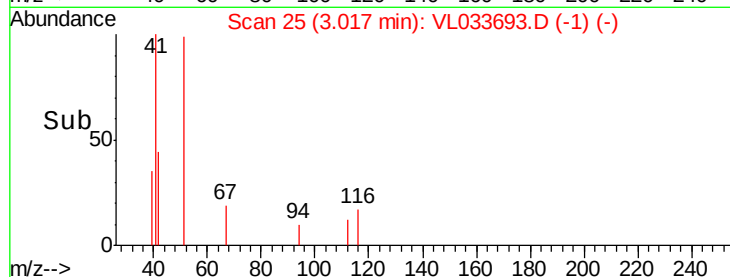
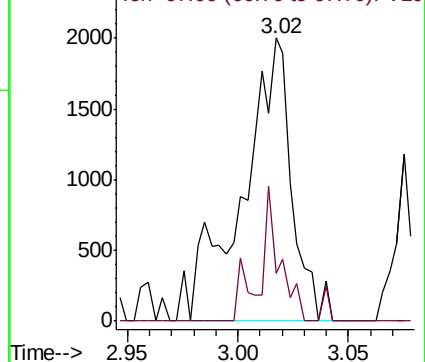
51 100

67 21.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.018 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033693.D

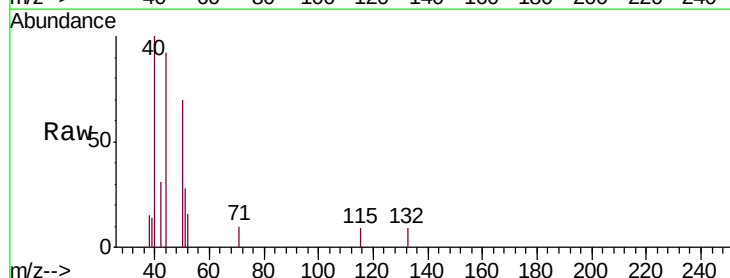
Acq: 14 May 2019 16:16

Tgt Ion: 50 Resp: 1334

Ion Ratio Lower Upper

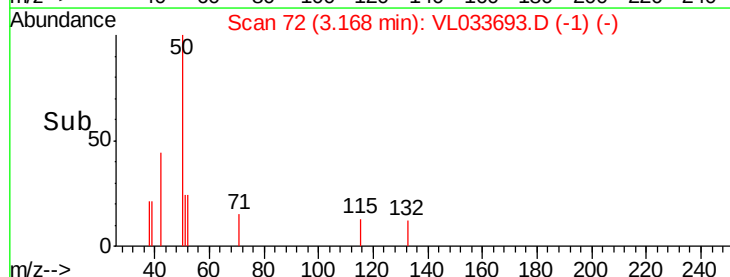
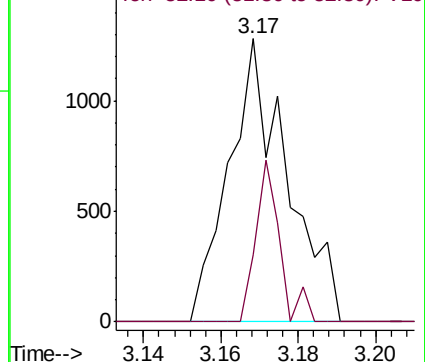
50 100

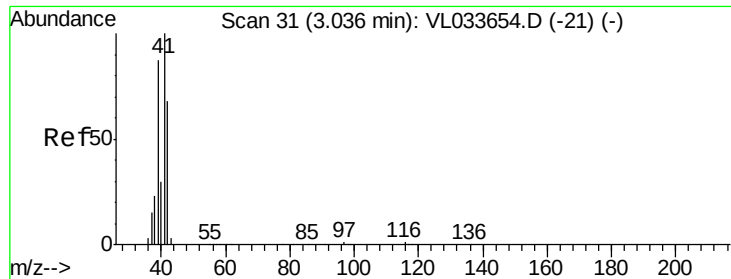
52 23.6 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.827 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

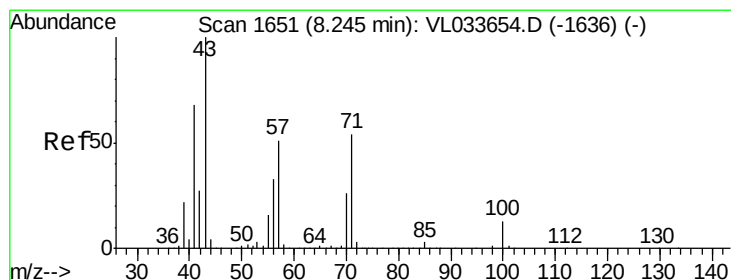
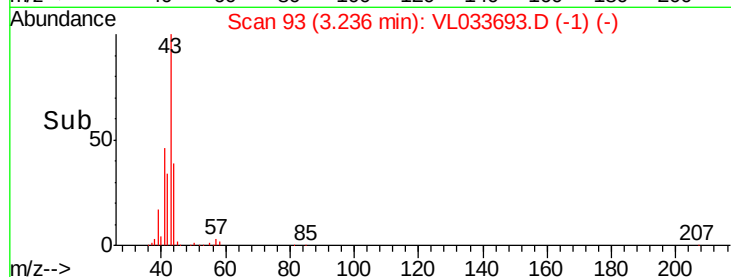
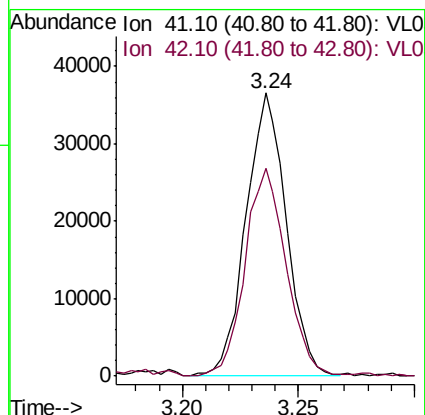
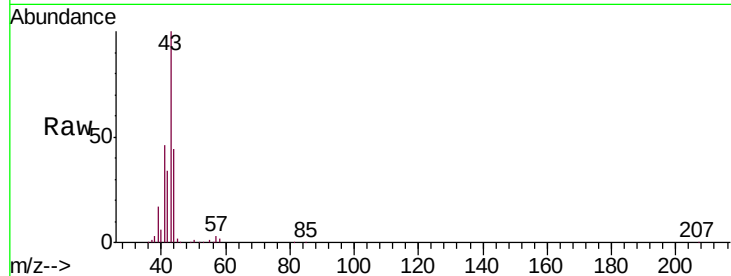
SS01DL

Tgt Ion: 41 Resp: 44203

Ion Ratio Lower Upper

41 100

42 75.4 55.6 83.4



#10

Heptane

Concen: 0.012 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VL033693.D

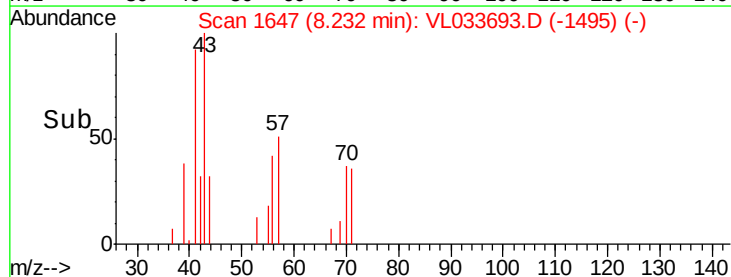
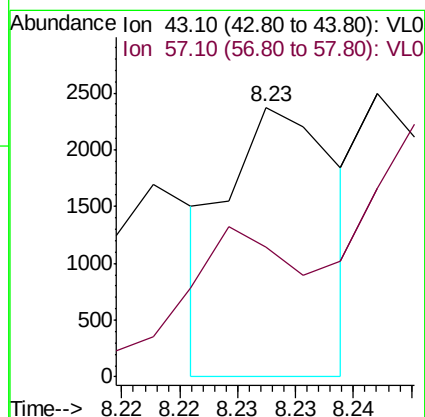
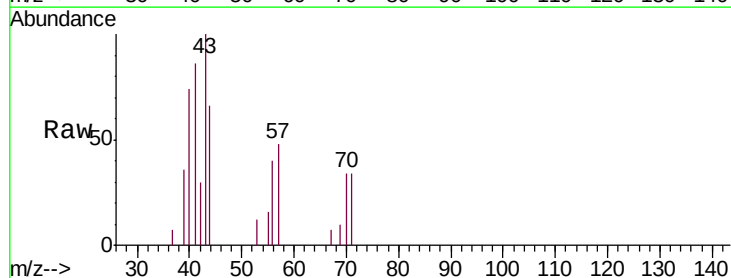
Acq: 14 May 2019 16:16

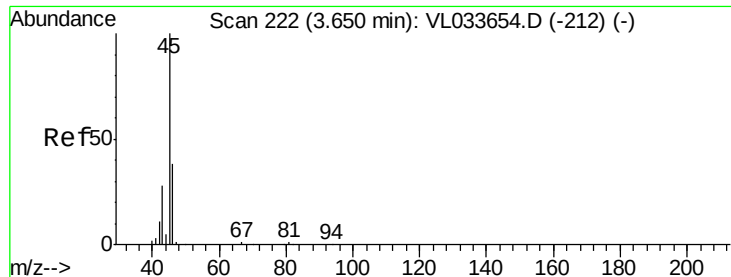
Tgt Ion: 43 Resp: 1537

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#

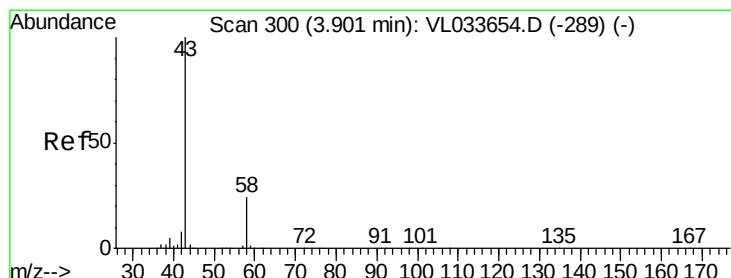
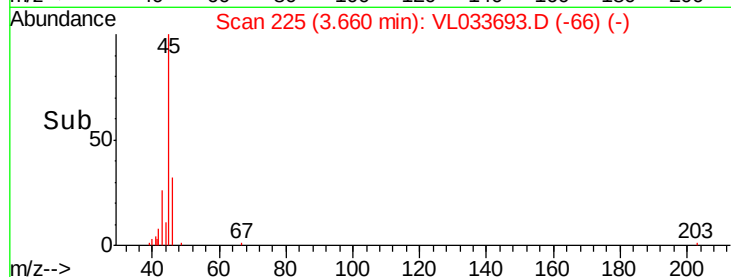
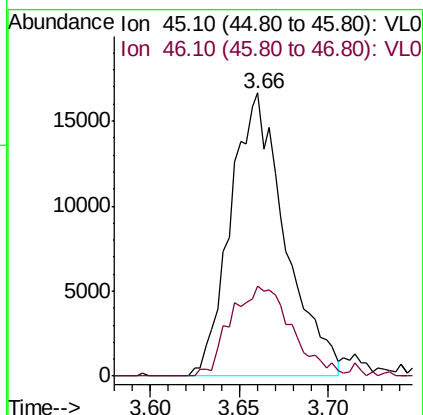
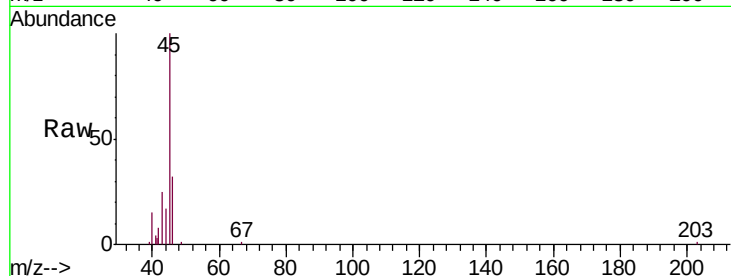




#13
Ethanol
Concen: 2.209 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033693.D
Acq: 14 May 2019 16:16

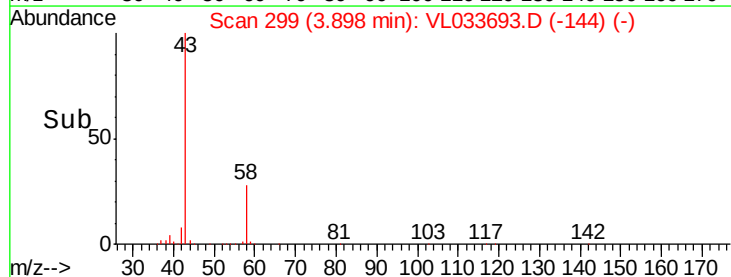
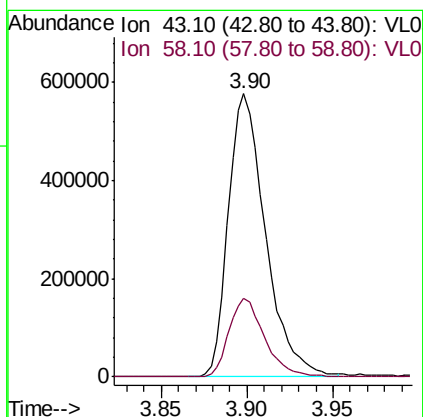
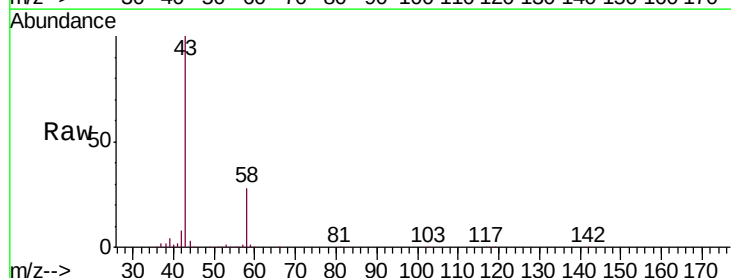
Instrument :
MSVOA_L
ClientSampleId :
SS01DL

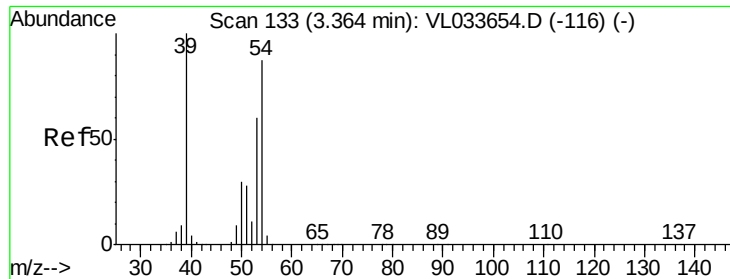
Tgt Ion: 45 Resp: 35457
Ion Ratio Lower Upper
45 100
46 36.6 14.9 59.7



#15
Acetone
Concen: 6.008 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033693.D
Acq: 14 May 2019 16:16

Tgt Ion: 43 Resp: 868015
Ion Ratio Lower Upper
43 100
58 26.8 20.9 31.3

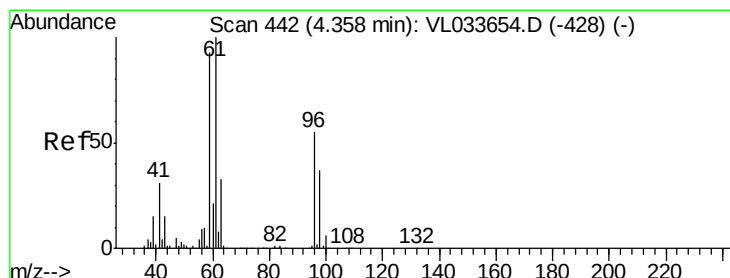
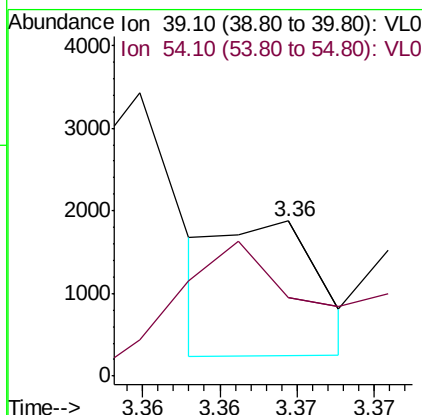
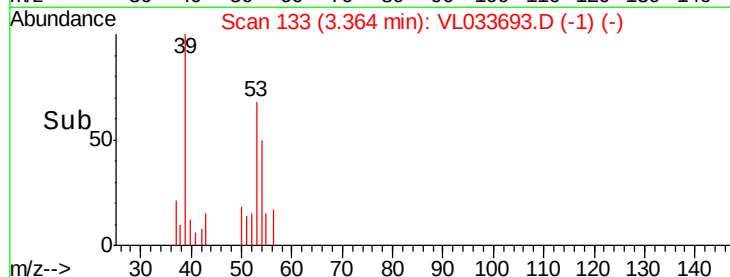
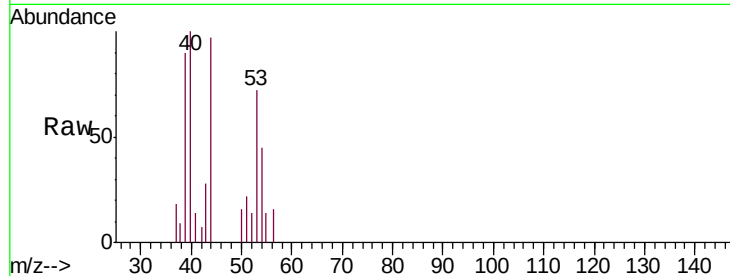




#16
1,3-Butadiene
Concen: 0.011 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033693.D
Acq: 14 May 2019 16:16

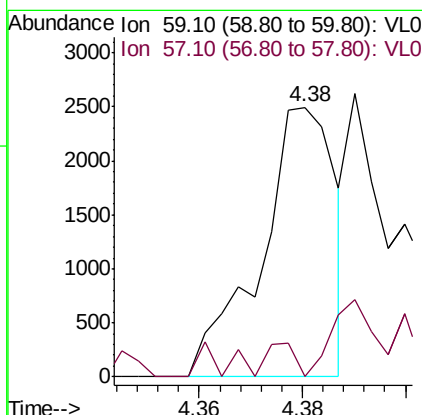
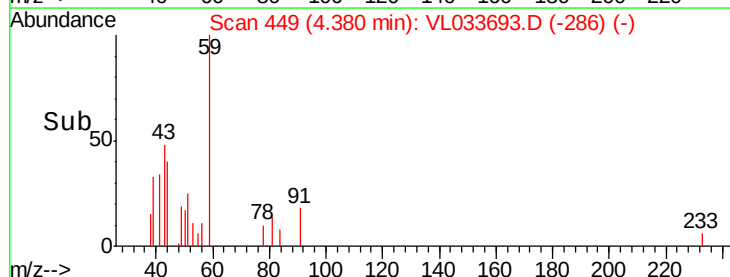
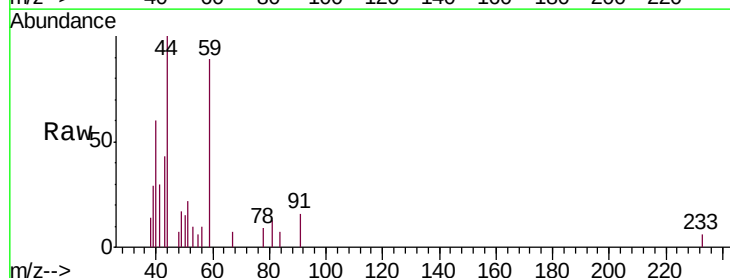
Instrument :
MSVOA_L
ClientSampleId :
SS01DL

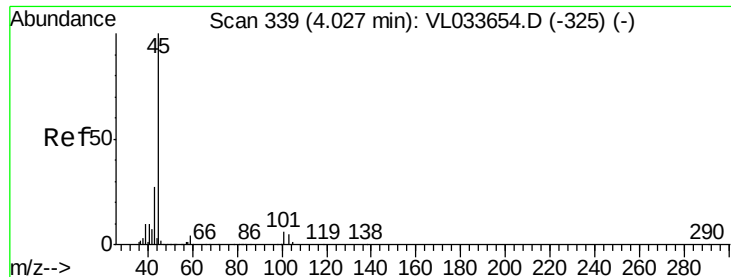
Tgt Ion: 39 Resp: 706
Ion Ratio Lower Upper
39 100
54 281.4 67.0 100.4#



#17
tert-Butyl alcohol
Concen: 0.023 ppbv
RT: 4.38 min Scan# 449
Delta R.T. 0.02 min
Lab File: VL033693.D
Acq: 14 May 2019 16:16

Tgt Ion: 59 Resp: 2492
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.383 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

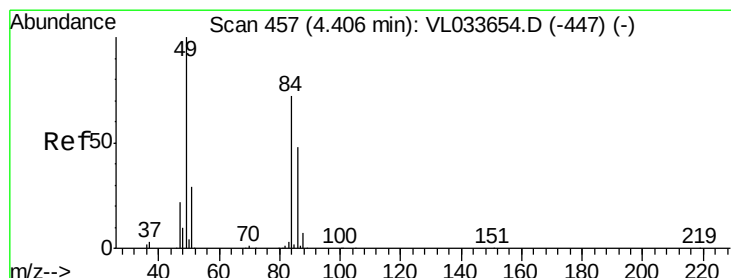
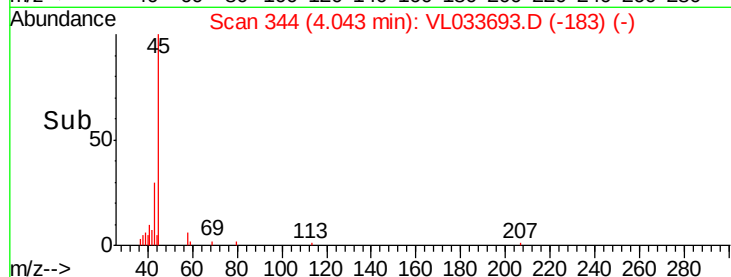
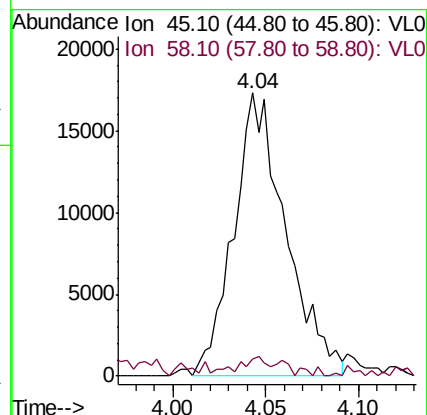
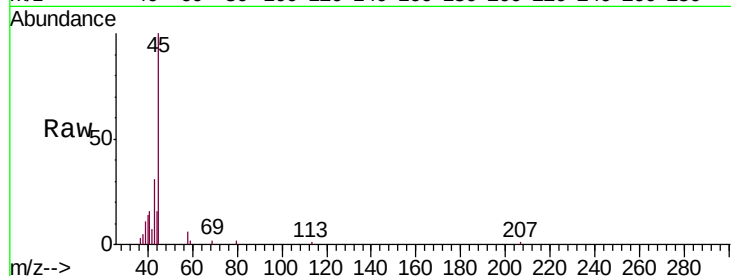
SS01DL

Tgt Ion: 45 Resp: 33954

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.293 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Tgt Ion: 84 Resp: 16098

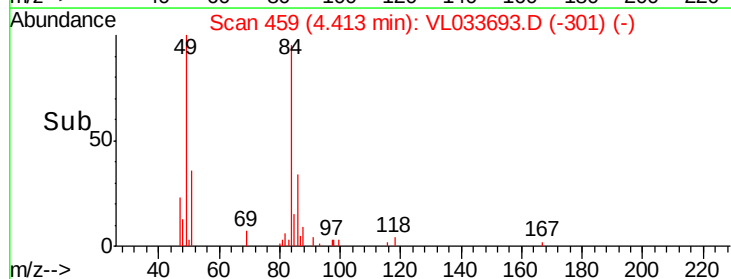
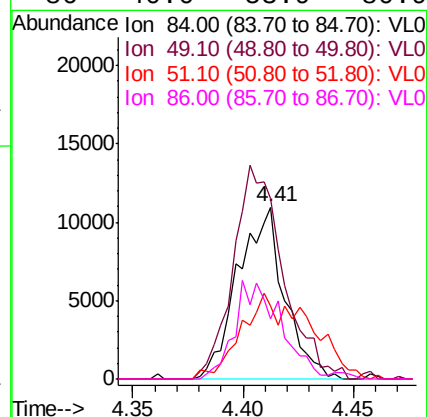
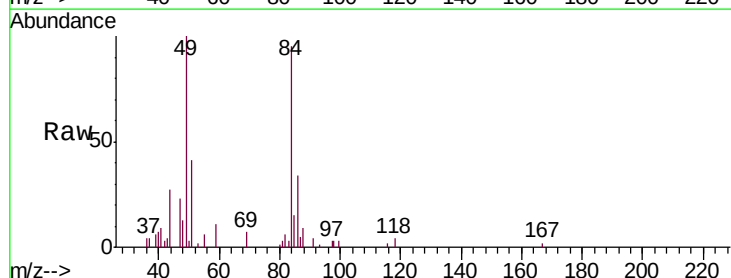
Ion Ratio Lower Upper

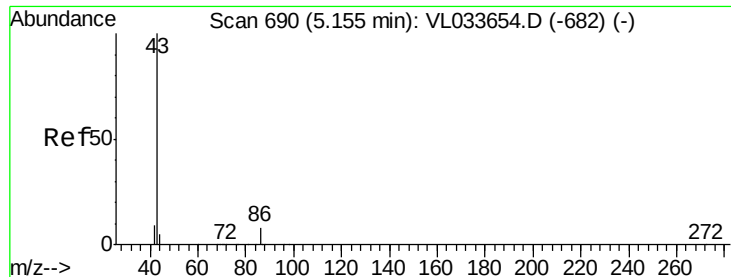
84 100

49 104.9 111.8 167.6#

51 42.7 32.3 48.5

86 40.0 53.9 80.9#





#23

Vinyl Acetate

Concen: 0.012 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

SS01DL

Tgt Ion: 43 Resp: 2236

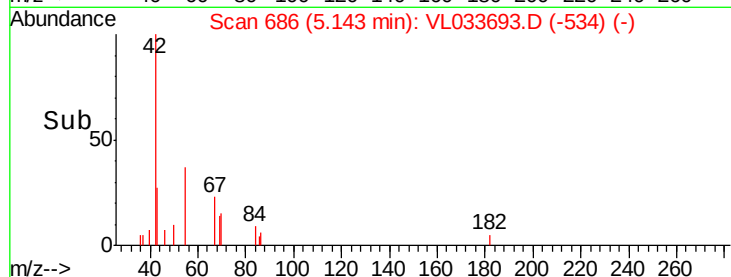
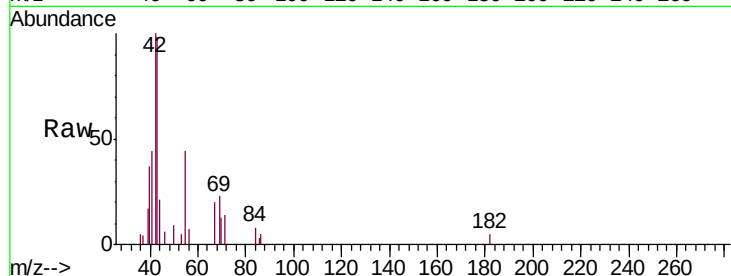
Ion Ratio Lower Upper

43 100

86 1.2 6.0 9.0#

42 123.7 8.0 12.0#

44 7.0 3.9 5.9#

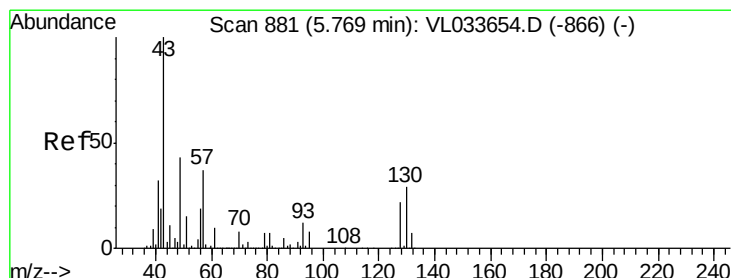
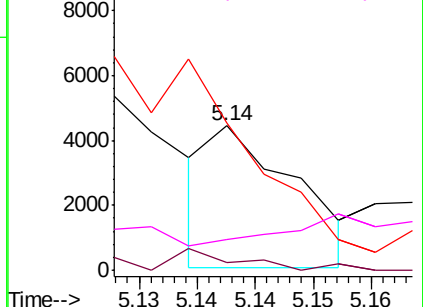


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.052 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Tgt Ion: 43 Resp: 12160

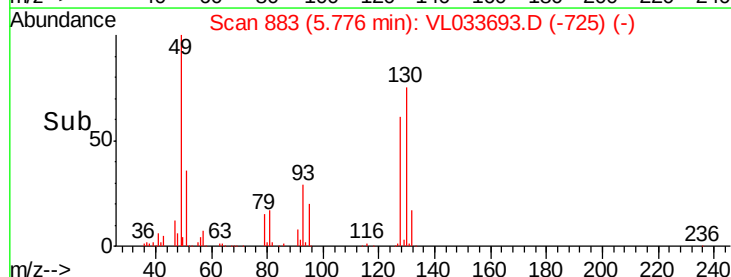
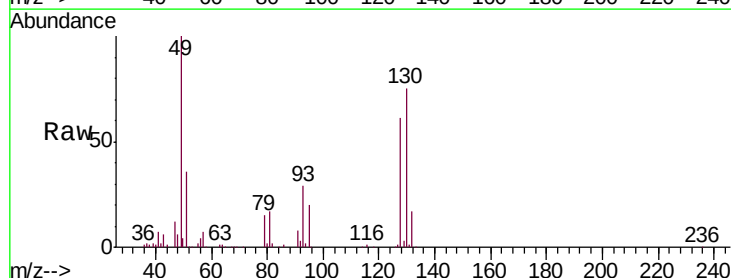
Ion Ratio Lower Upper

43 100

45 2.9 8.0 12.0#

61 0.0 7.5 11.3#

70 0.0 5.8 8.8#

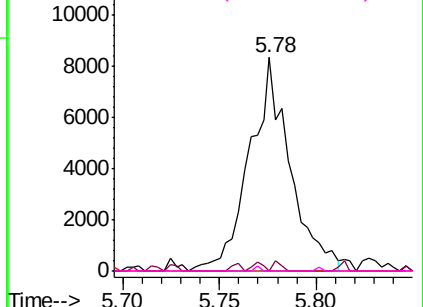


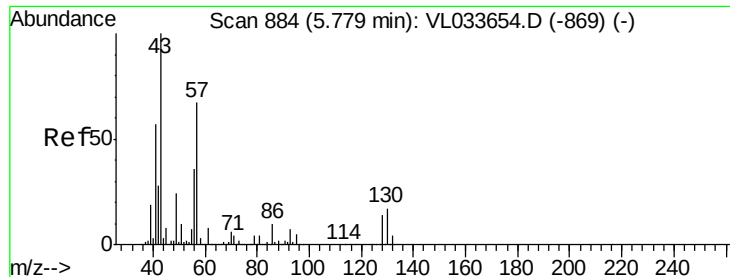
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.163 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

SS01DL

Tgt Ion: 57 Resp: 16498

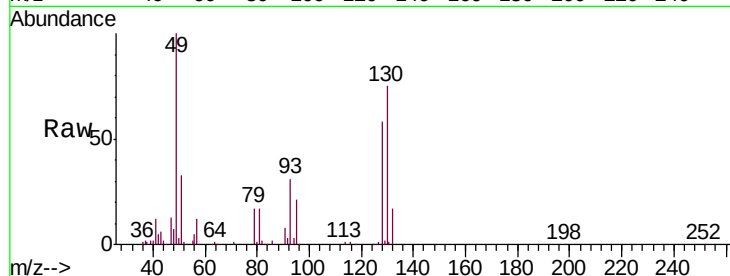
Ion Ratio Lower Upper

57 100

41 99.7 69.7 104.5

43 78.0 181.9 272.9#

56 59.4 42.5 63.7

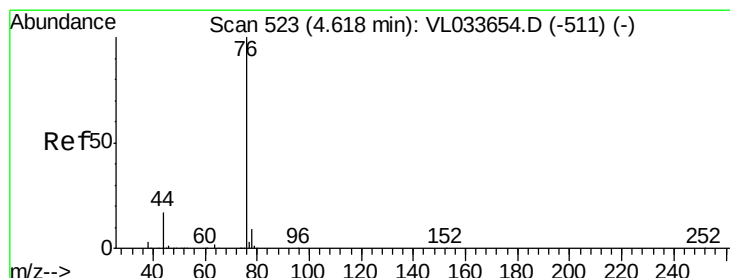
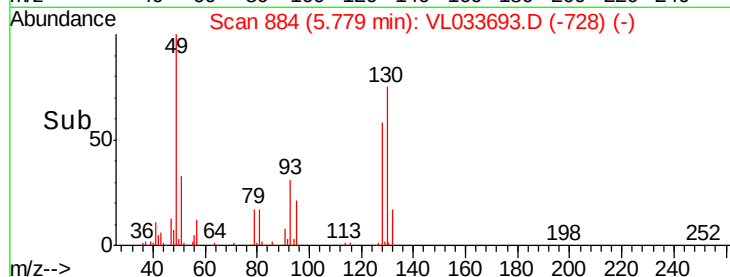
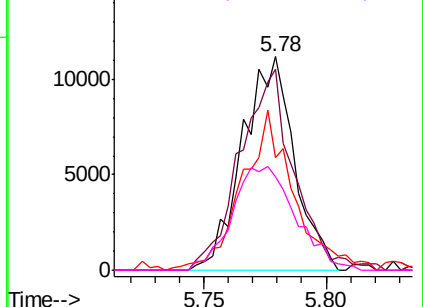


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.052 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

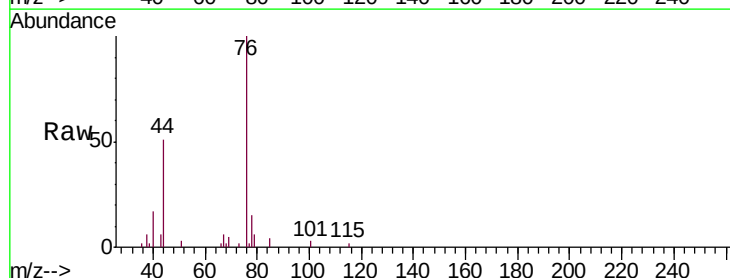
Tgt Ion: 76 Resp: 7168

Ion Ratio Lower Upper

76 100

44 80.3 14.4 21.6#

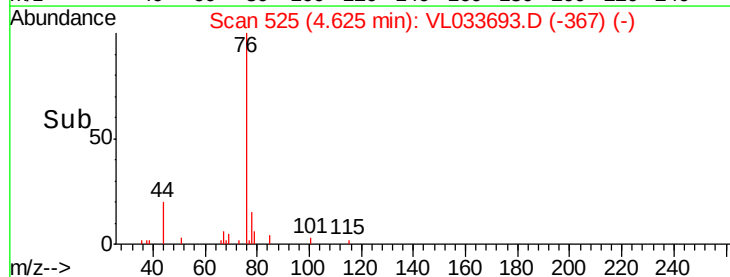
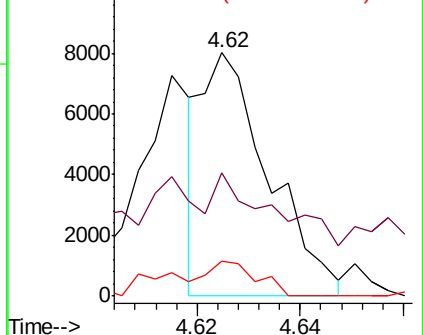
78 17.7 7.4 11.2#

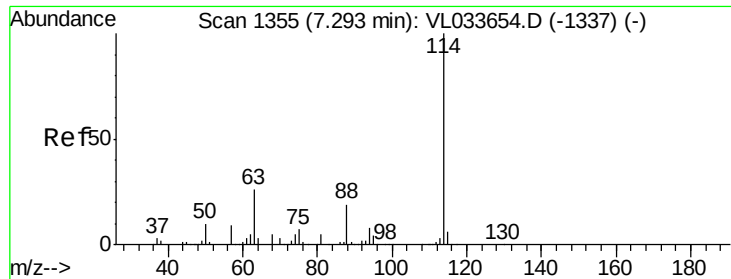


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

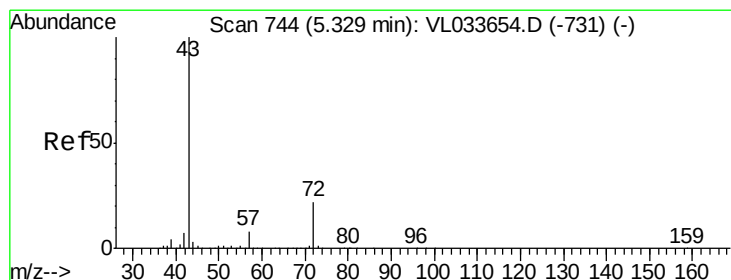
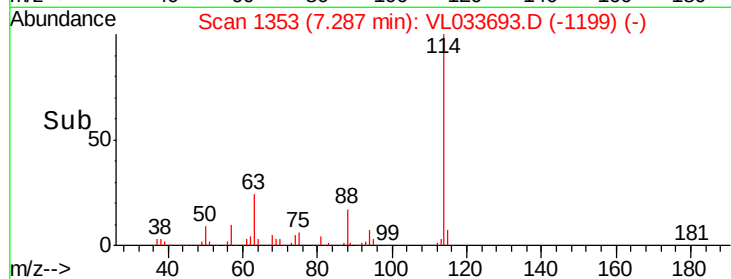
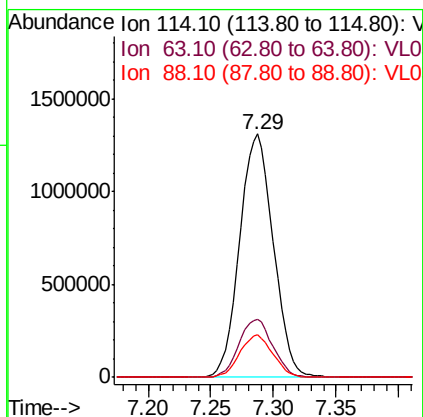
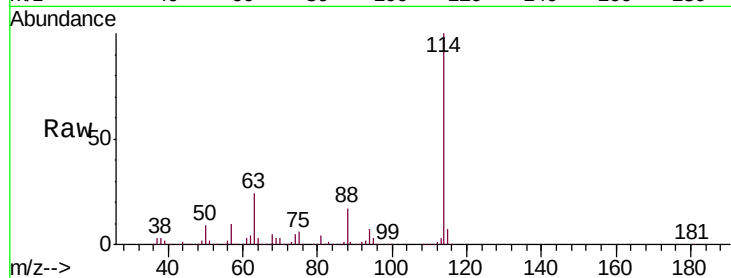




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033693.D
 Acq: 14 May 2019 16:16

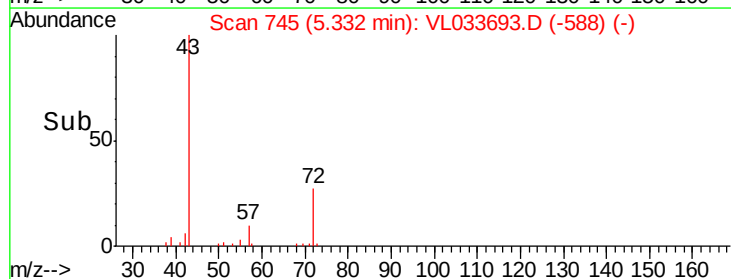
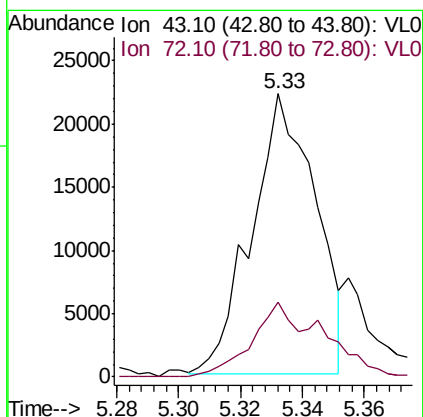
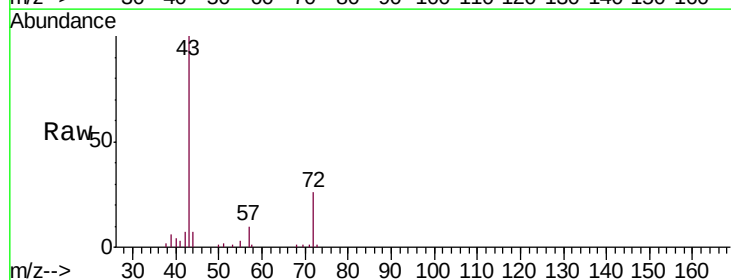
Instrument :
 MSVOA_L
 ClientSampleId :
 SS01DL

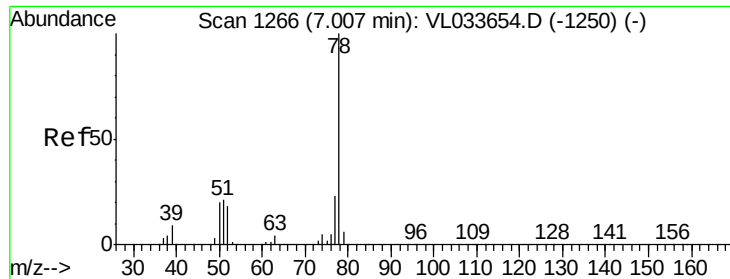
Tgt Ion:114 Resp: 2448841
 Ion Ratio Lower Upper
 114 100
 63 24.1 21.3 31.9
 88 17.2 14.4 21.6



#34
 2-Butanone
 Concen: 0.203 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033693.D
 Acq: 14 May 2019 16:16

Tgt Ion: 43 Resp: 31822
 Ion Ratio Lower Upper
 43 100
 72 30.1 17.5 26.3#





#36

Benzene

Concen: 0.029 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

SS01DL

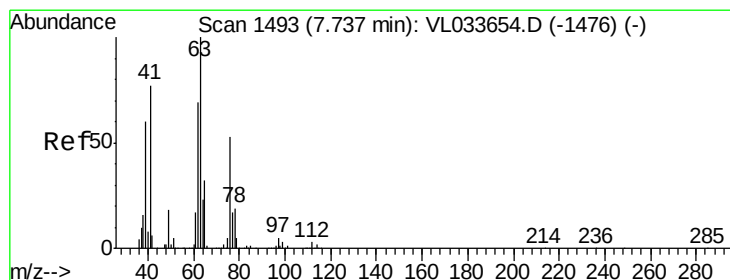
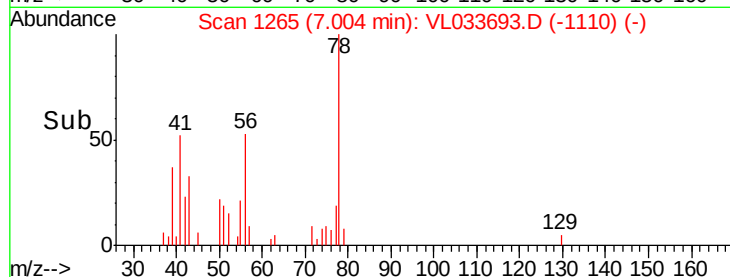
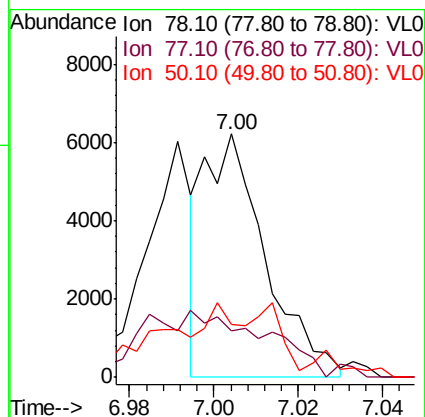
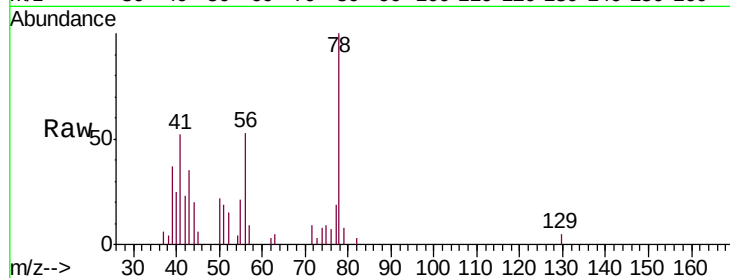
Tgt Ion: 78 Resp: 6262

Ion Ratio Lower Upper

78 100

77 14.1 18.2 27.2#

50 19.5 15.8 23.6



#39

1,2-Dichloropropane

Concen: 7.136 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

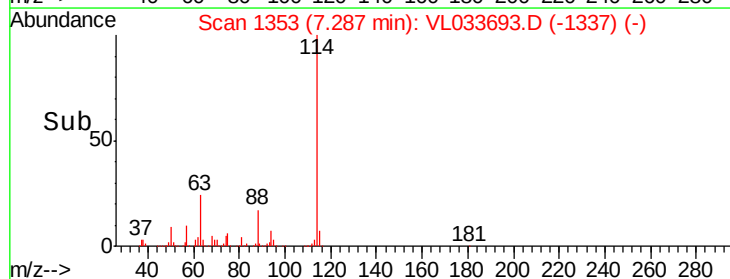
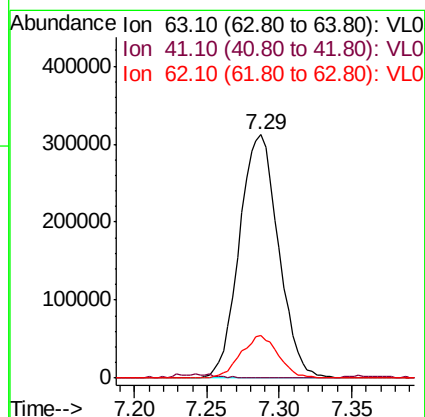
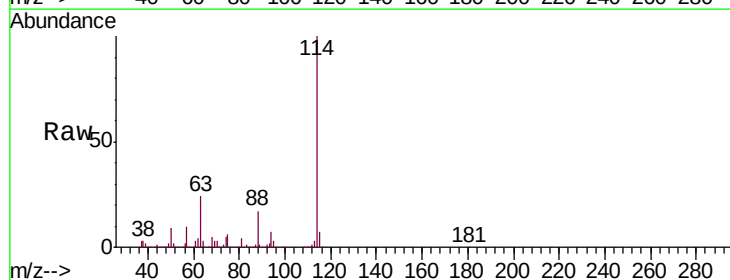
Tgt Ion: 63 Resp: 584044

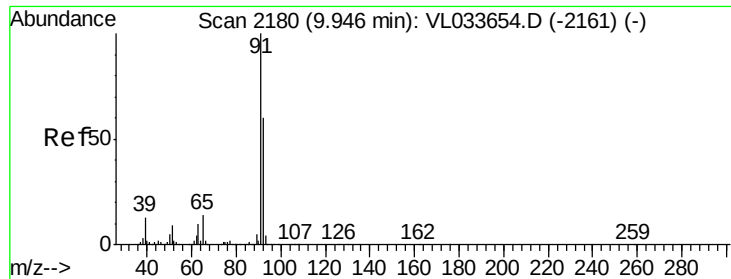
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 17.3 55.0 82.6#





#53

Toluene

Concen: 0.019 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

Instrument :

MSVOA_L

ClientSampleId :

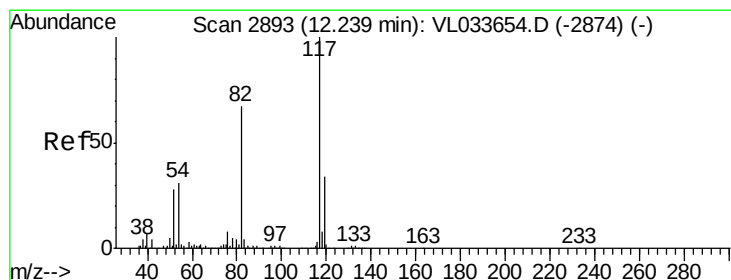
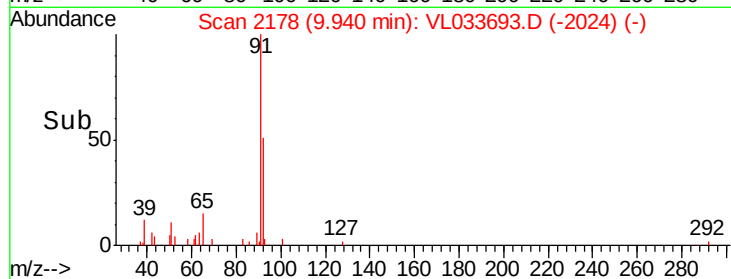
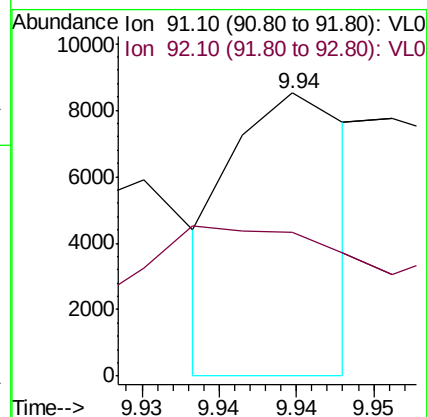
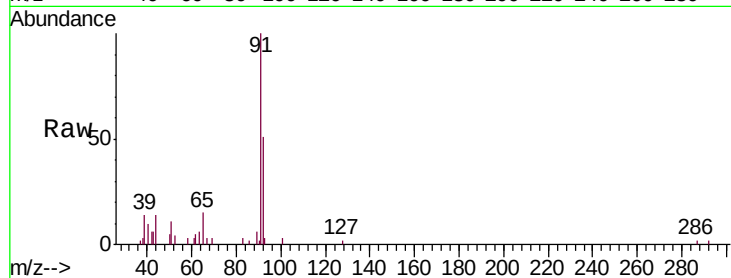
SS01DL

Tgt Ion: 91 Resp: 4522

Ion Ratio Lower Upper

91 100

92 0.0 47.7 71.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033693.D

Acq: 14 May 2019 16:16

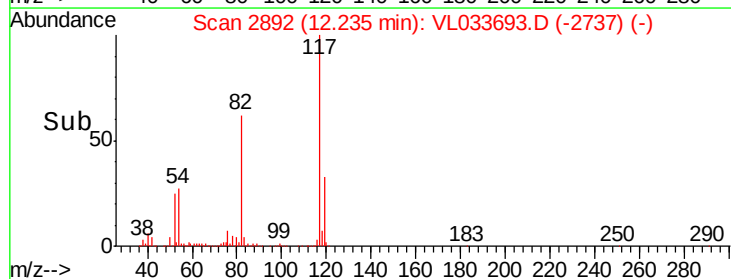
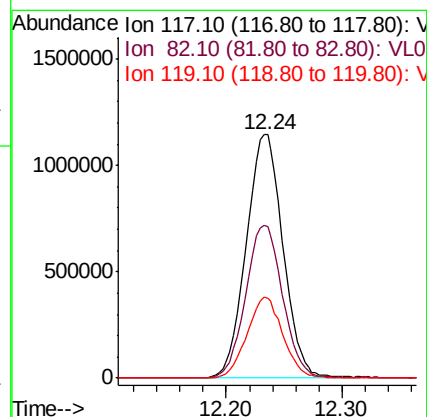
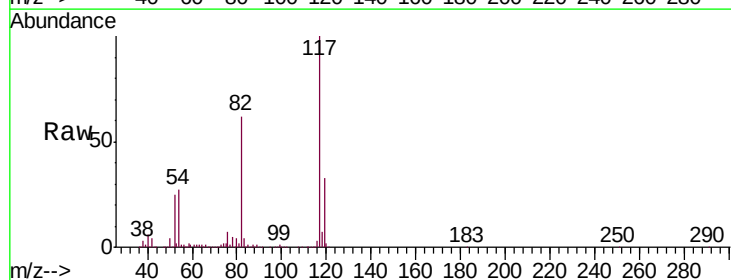
Tgt Ion: 117 Resp: 2523803

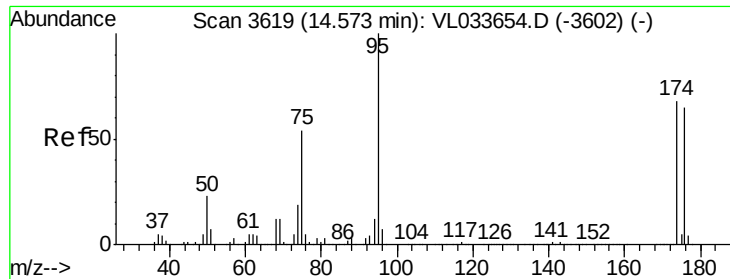
Ion Ratio Lower Upper

117 100

82 63.9 49.7 74.5

119 32.5 24.8 37.2

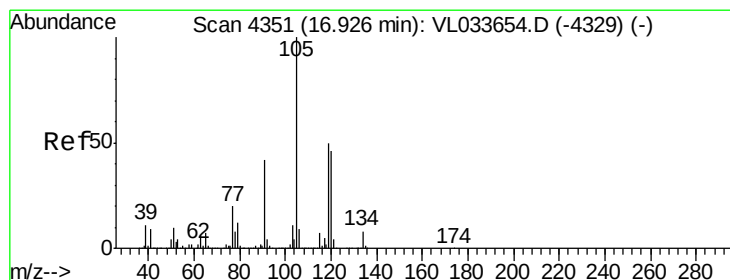
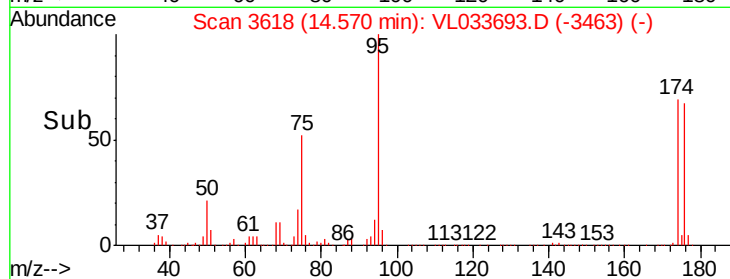
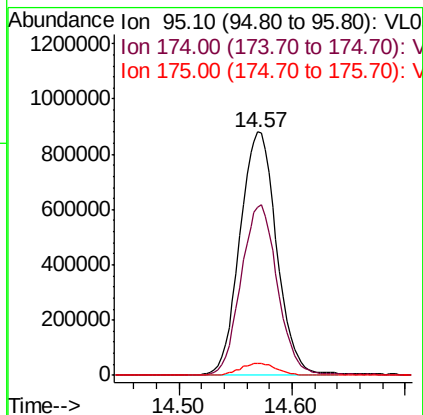
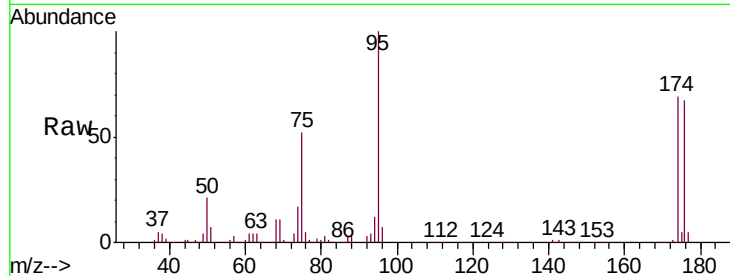




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.622 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.00 min
 Lab File: VL033693.D
 Acq: 14 May 2019 16:16

Instrument :
 MSVOA_L
 ClientSampleID :
 SS01DL

Tgt Ion: 95 Resp: 1990535
 Ion Ratio Lower Upper
 95 100
 174 70.4 54.0 81.0
 175 5.0 3.8 5.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.012 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. 0.00 min
 Lab File: VL033693.D
 Acq: 14 May 2019 16:16

Tgt Ion: 105 Resp: 4395
 Ion Ratio Lower Upper
 105 100
 120 0.0 36.5 54.7#
 91 5.2 33.7 50.5#
 77 18.7 16.3 24.5

