

Data File : VL034210.D
Acq On : 2 Oct 2019 14:32
Operator : SY/AP
Sample : K5106-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-5DL

Quant Time: Oct 03 05:39:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1002741	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1824574	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1875898	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1610120	9.88	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

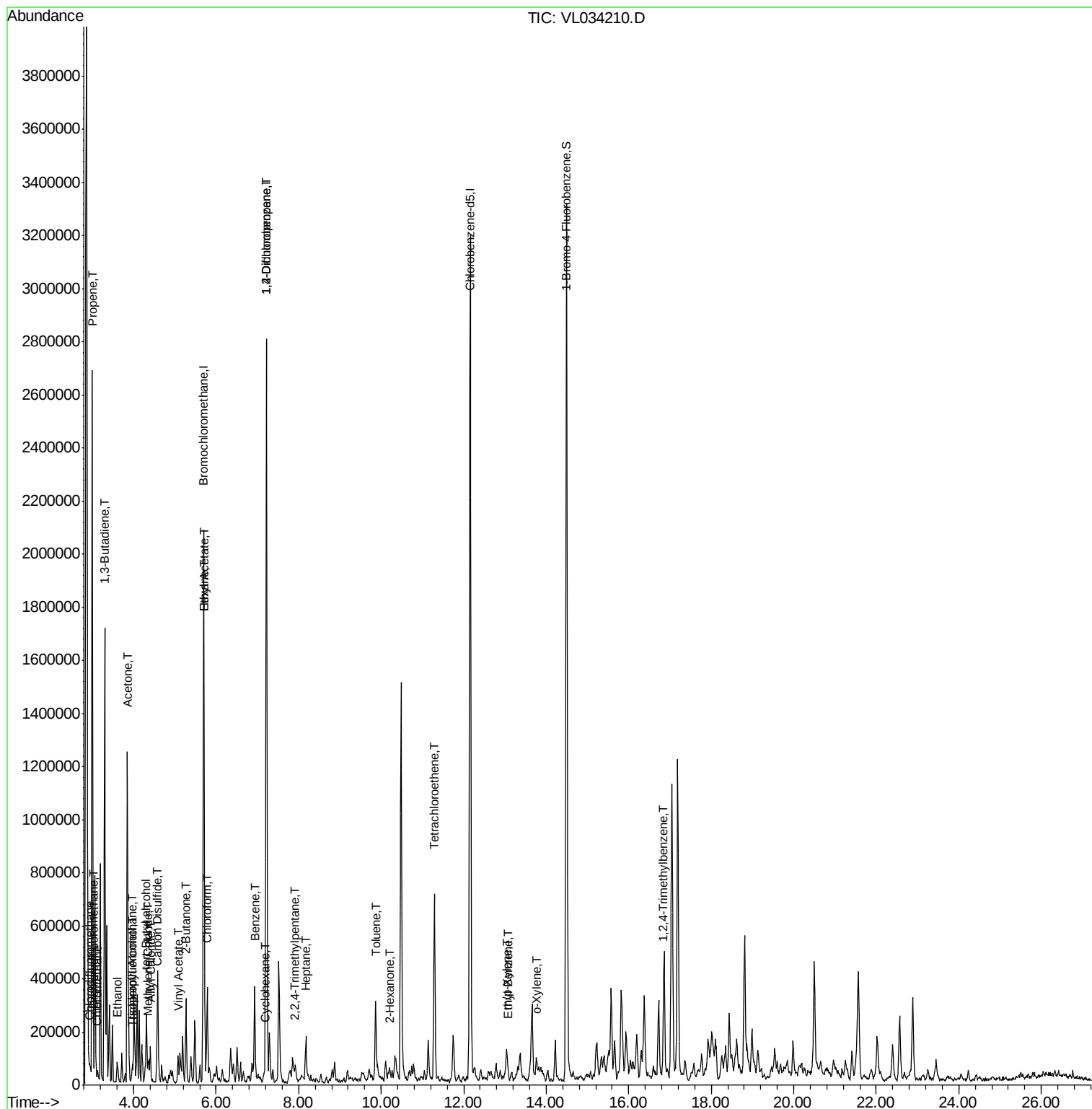
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	7587	0.051	ppbv	95
3) Chlorodifluoromethane	2.95	51	9944	0.085	ppbv #	67
4) Chloromethane	3.13	50	17277	0.250	ppbv #	86
9) Propene	2.99	41	1091785	18.822	ppbv	95
10) Heptane	8.17	43	78633	0.520	ppbv	98
11) Trichlorofluoromethane	3.94	101	4908	0.036	ppbv #	71
13) Ethanol	3.60	45	79787	5.680	ppbv	94
15) Acetone	3.84	43	1273287	9.474	ppbv	95
16) 1,3-Butadiene	3.30	39	538460	9.181	ppbv #	30
17) tert-Butyl alcohol	4.30	59	127112	1.493	ppbv	95
19) Isopropyl Alcohol	3.97	45	16901	0.205	ppbv #	95
20) Methylene Chloride	4.35	84	11564	0.298	ppbv #	37
21) Allyl Chloride	4.41	41	12927	0.170	ppbv #	1
23) Vinyl Acetate	5.09	43	12062	0.061	ppbv #	21
25) Ethyl Acetate	5.71	43	36567	0.144	ppbv #	90
26) Hexane	5.71	57	90991	0.861	ppbv #	41
27) Carbon Disulfide	4.56	76	80832	0.829	ppbv #	89
29) Chloroform	5.78	83	198529	1.314	ppbv	98
30) Cyclohexane	7.17	84	6922	0.091	ppbv #	1
34) 2-Butanone	5.27	43	343058	1.841	ppbv	96
36) Benzene	6.93	78	268879	1.334	ppbv	94
39) 1,2-Dichloropropane	7.22	63	572517	6.323	ppbv #	20
44) 2,2,4-Trimethylpentane	7.92	57	20406	0.053	ppbv #	1
51) 2-Hexanone	10.21	43	26582	0.117	ppbv #	59
52) Tetrachloroethene	11.29	164	158689	2.384	ppbv	92
53) Toluene	9.87	91	227440	1.033	ppbv	98
58) Ethyl Benzene	13.08	91	12520	0.041	ppbv	100
59) m/p-Xylene	13.06	91	20752	0.083	ppbv #	32
60) o-Xylene	13.77	91	23522	0.094	ppbv #	43
74) 1,2,4-Trimethylbenzene	16.83	105	29522	0.102	ppbv #	72

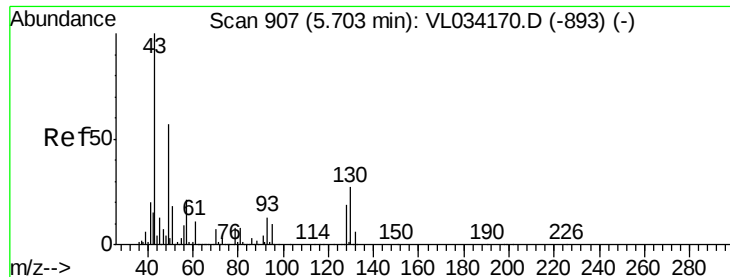
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

SV-5DL

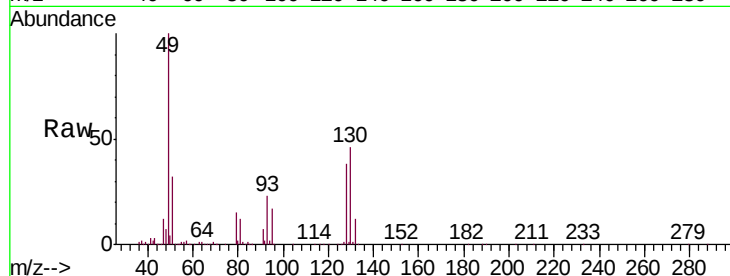
Tgt Ion: 49 Resp: 1002741

Ion Ratio Lower Upper

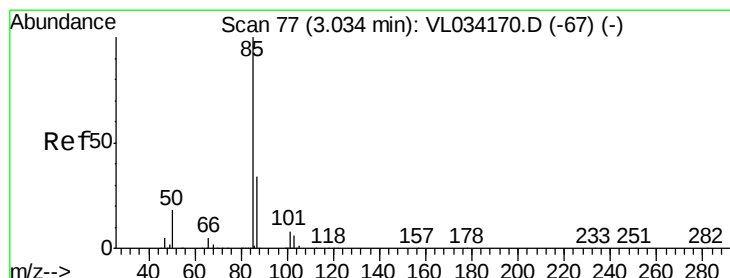
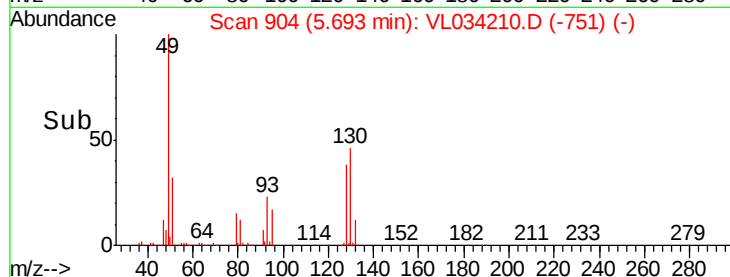
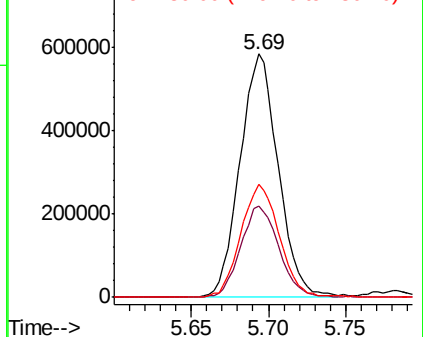
49 100

128 38.1 17.6 52.9

130 47.1 22.3 66.9



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: 0.051 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034210.D

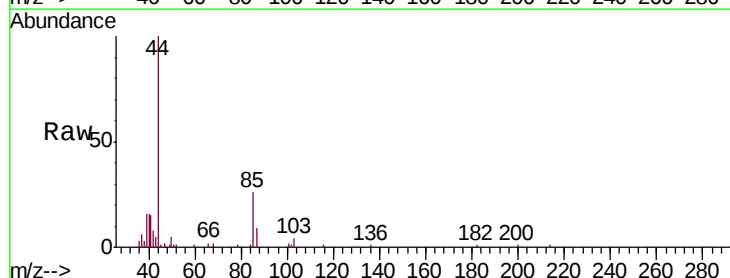
Acq: 2 Oct 2019 14:32

Tgt Ion: 85 Resp: 7587

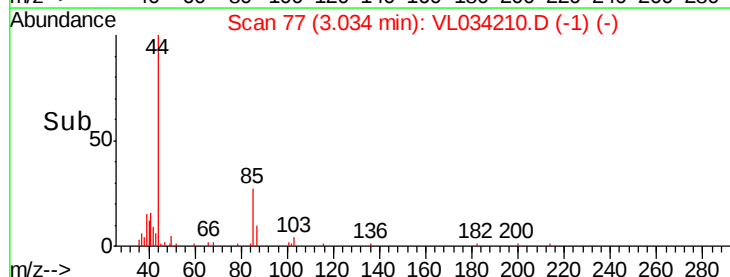
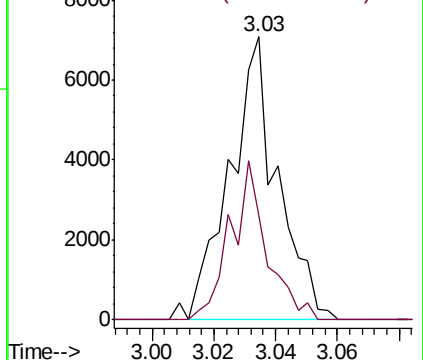
Ion Ratio Lower Upper

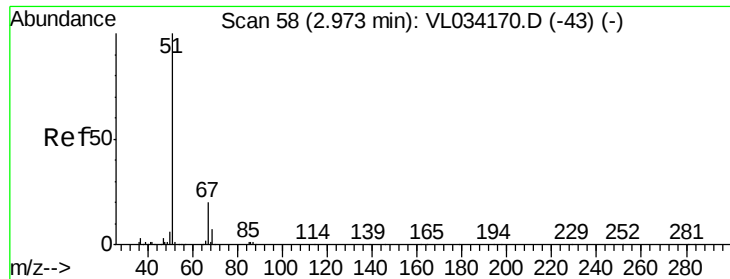
85 100

87 36.8 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.085 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.03 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

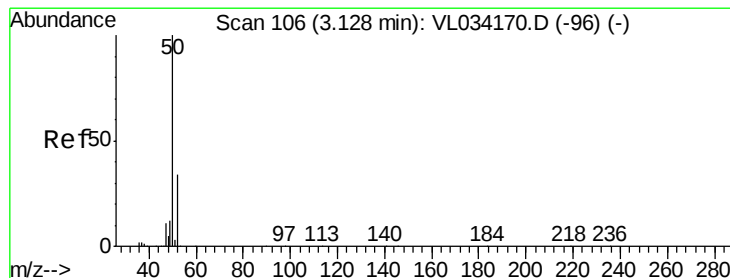
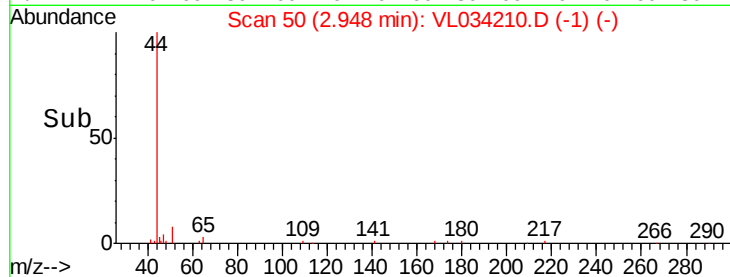
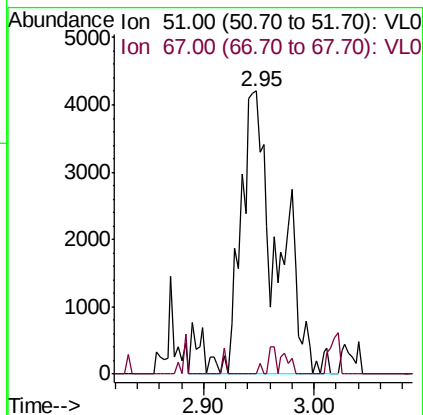
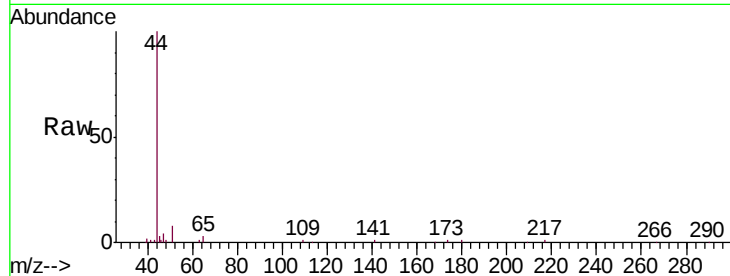
SV-5DL

Tgt Ion: 51 Resp: 9944

Ion Ratio Lower Upper

51 100

67 3.7 14.8 22.2#



#4

Chloromethane

Concen: 0.250 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034210.D

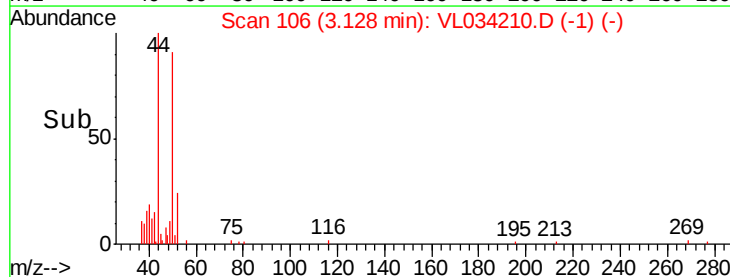
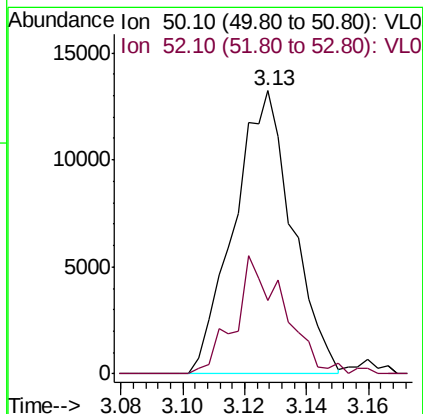
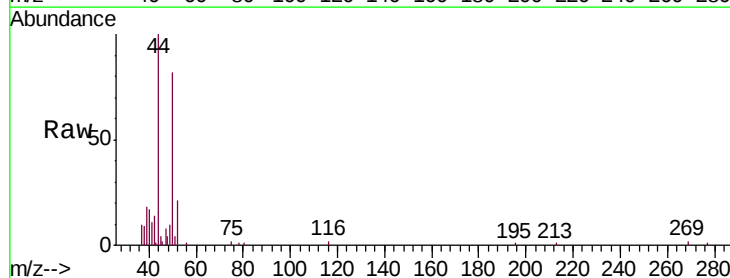
Acq: 2 Oct 2019 14:32

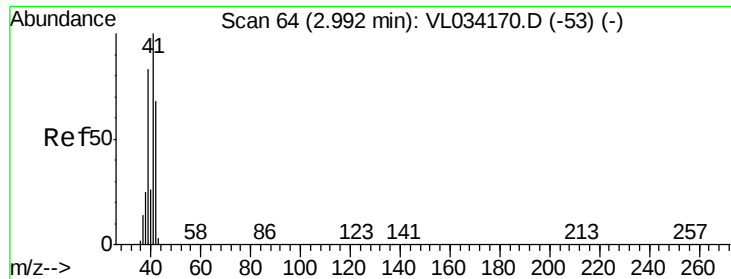
Tgt Ion: 50 Resp: 17277

Ion Ratio Lower Upper

50 100

52 25.9 27.1 40.7#





#9

Propene

Concen: 18.822 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

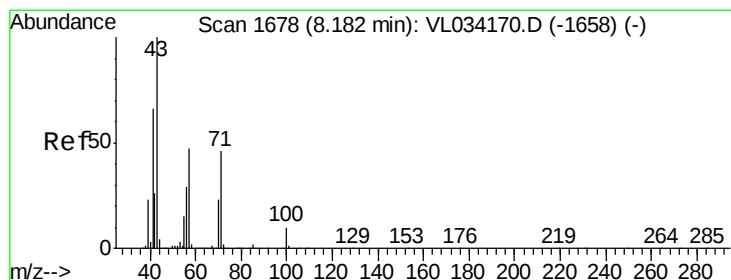
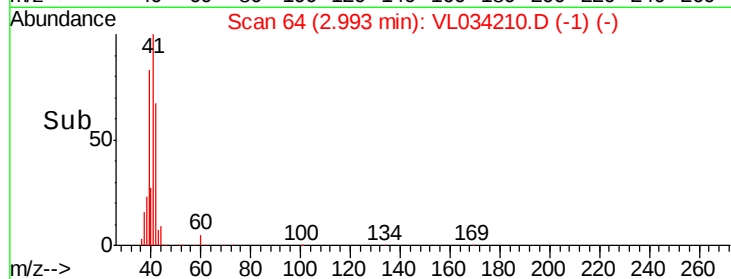
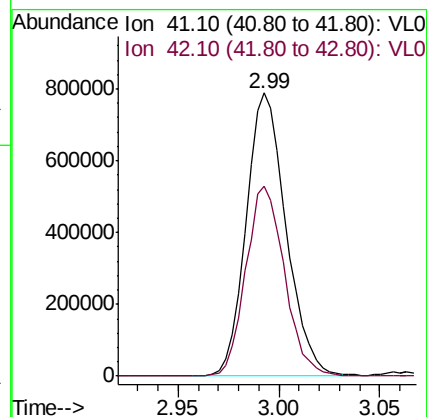
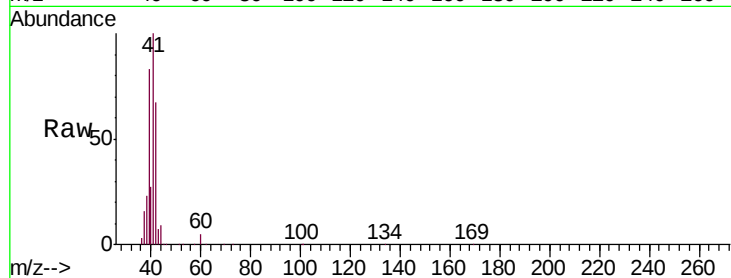
SV-5DL

Tgt Ion: 41 Resp: 1091785

Ion Ratio Lower Upper

41 100

42 65.4 55.8 83.6



#10

Heptane

Concen: 0.520 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034210.D

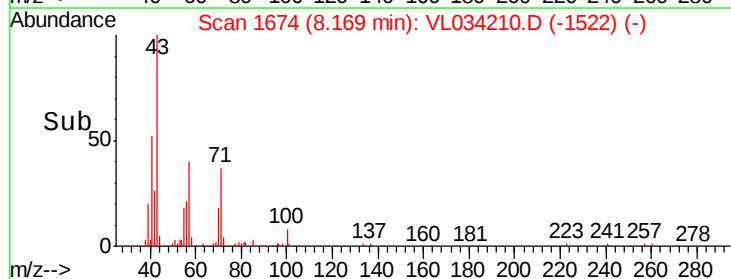
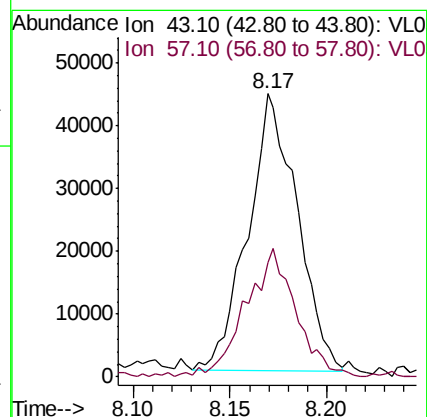
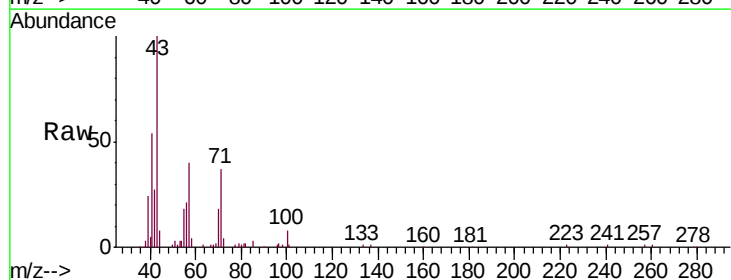
Acq: 2 Oct 2019 14:32

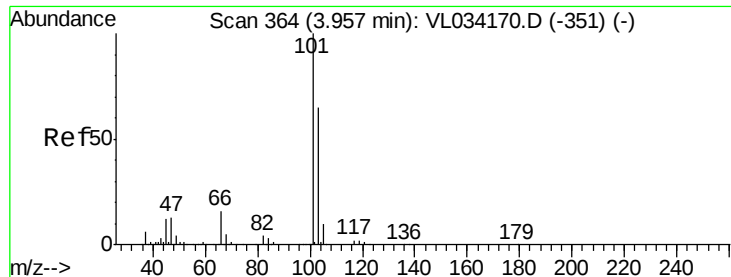
Tgt Ion: 43 Resp: 78633

Ion Ratio Lower Upper

43 100

57 48.1 37.5 56.3

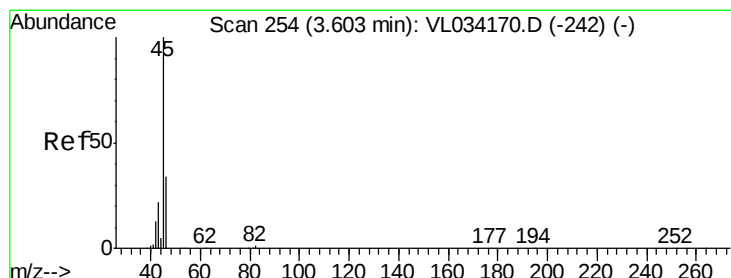
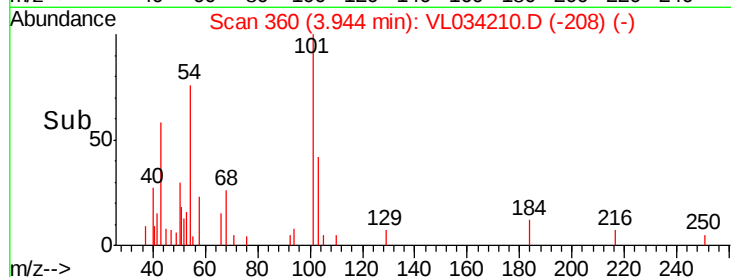
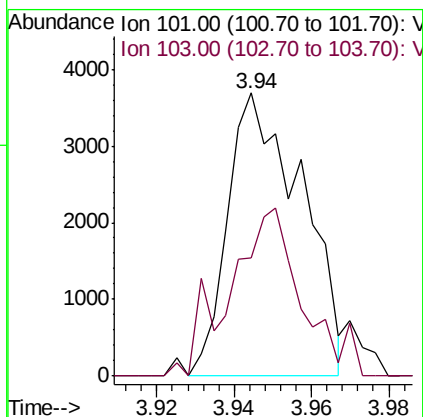
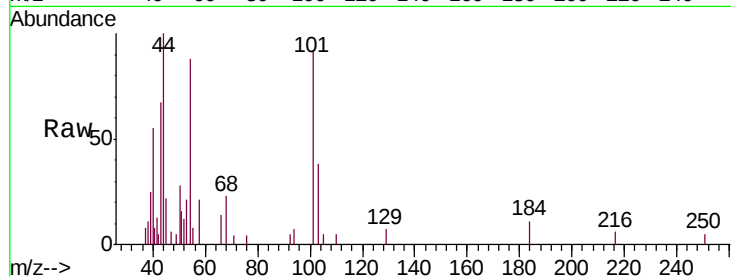




#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

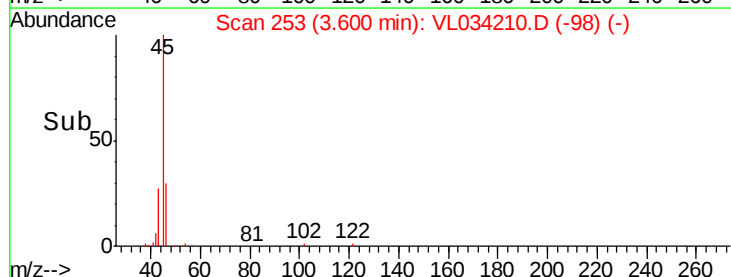
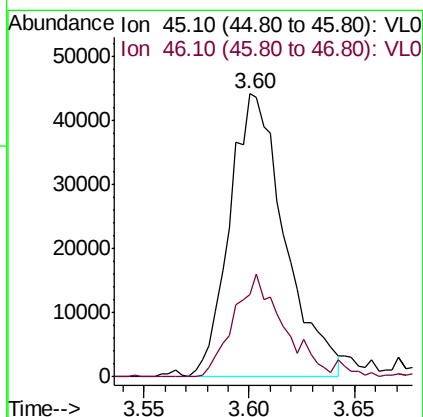
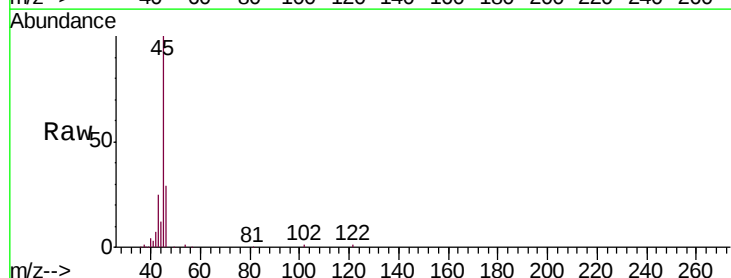
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DL

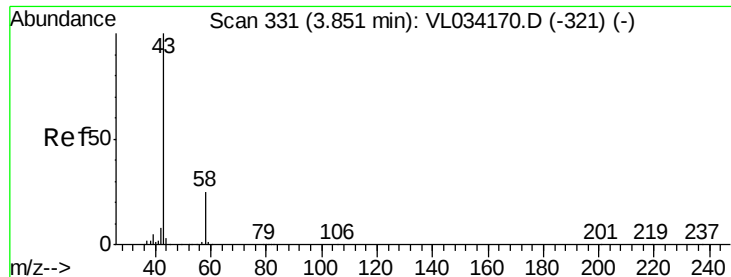
Tgt Ion:101 Resp: 4908
 Ion Ratio Lower Upper
 101 100
 103 41.8 52.1 78.1#



#13
 Ethanol
 Concen: 5.680 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Tgt Ion: 45 Resp: 79787
 Ion Ratio Lower Upper
 45 100
 46 35.2 15.5 61.9





#15

Acetone

Concen: 9.474 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

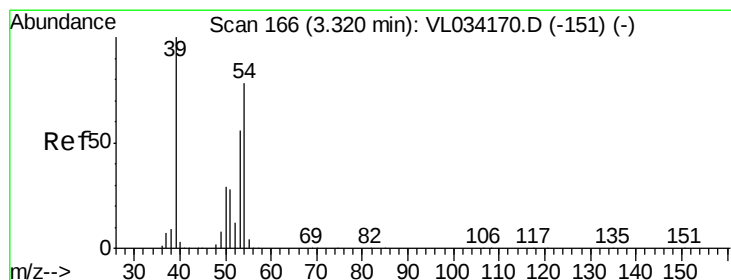
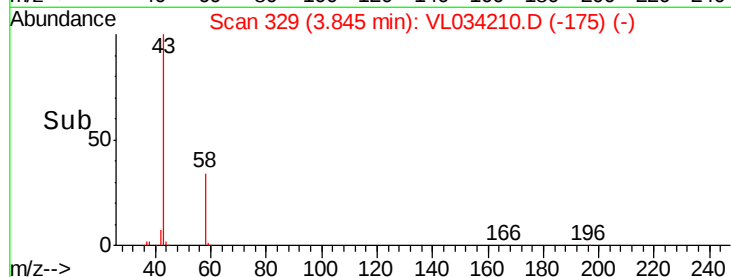
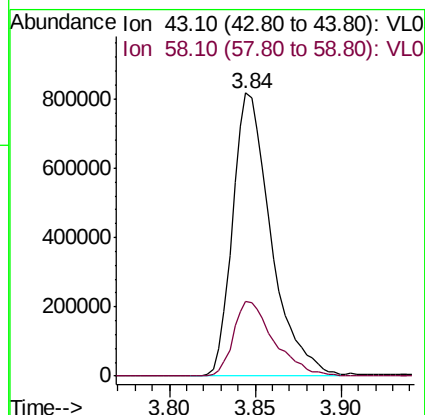
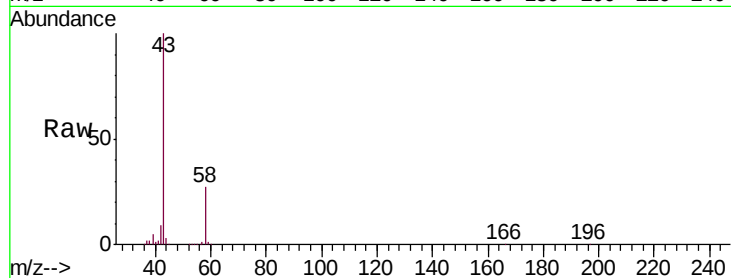
SV-5DL

Tgt Ion: 43 Resp: 1273287

Ion Ratio Lower Upper

43 100

58 28.1 20.5 30.7



#16

1,3-Butadiene

Concen: 9.181 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.02 min

Lab File: VL034210.D

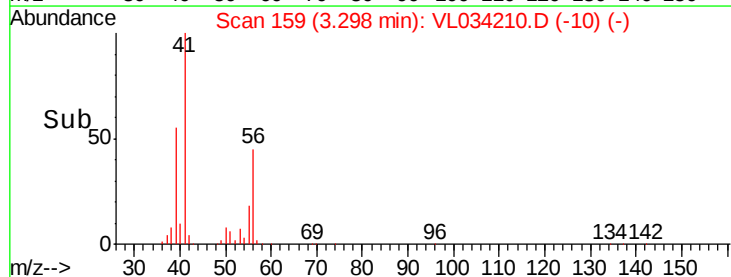
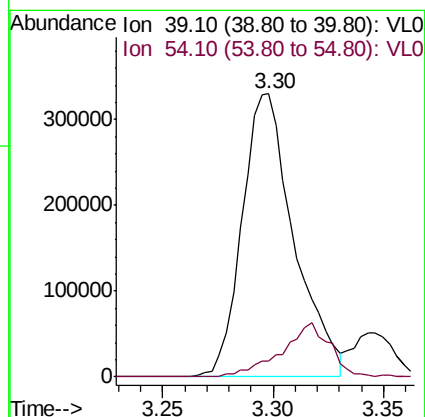
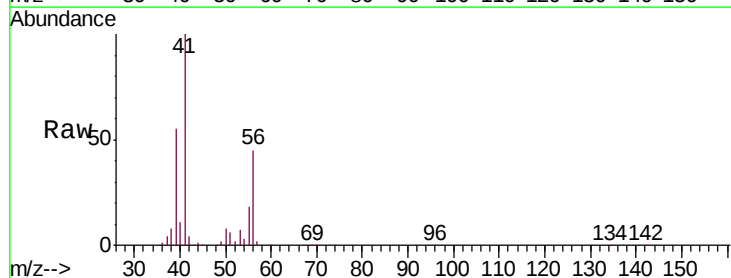
Acq: 2 Oct 2019 14:32

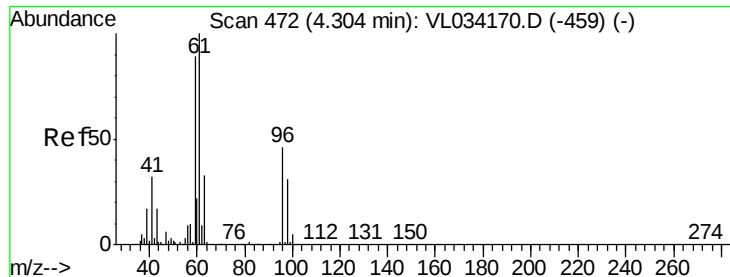
Tgt Ion: 39 Resp: 538460

Ion Ratio Lower Upper

39 100

54 18.0 63.4 95.0#





#17

tert-Butyl alcohol

Concen: 1.493 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.00 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampled :

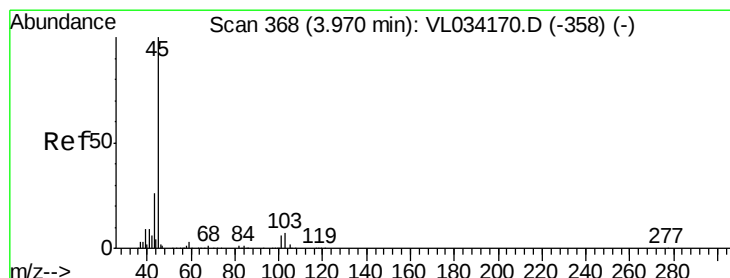
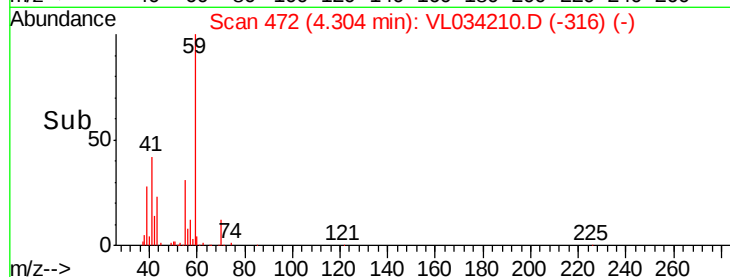
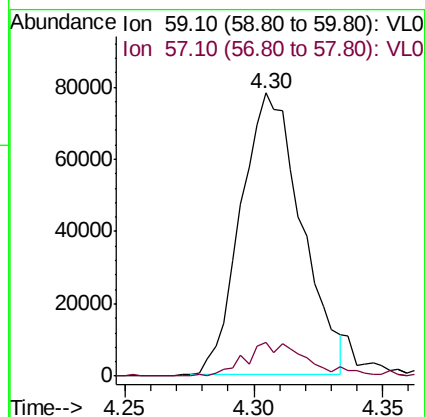
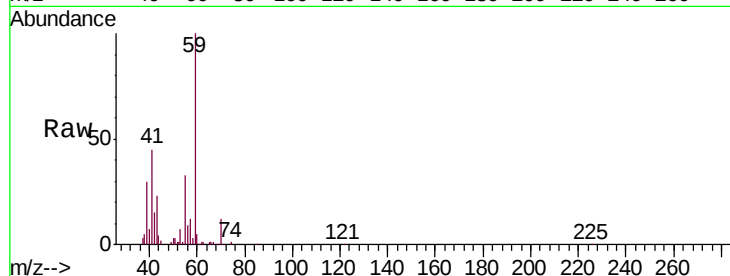
SV-5DL

Tgt Ion: 59 Resp: 127112

Ion Ratio Lower Upper

59 100

57 13.0 8.7 13.1



#19

Isopropyl Alcohol

Concen: 0.205 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL034210.D

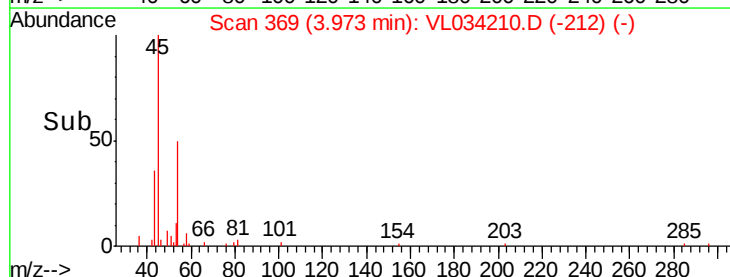
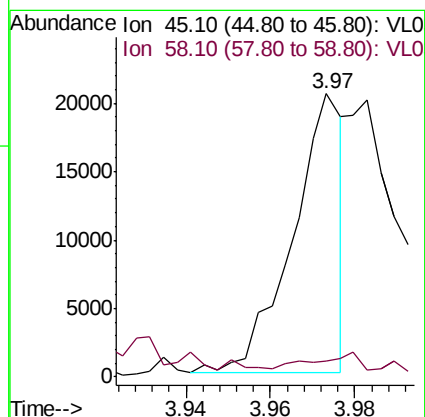
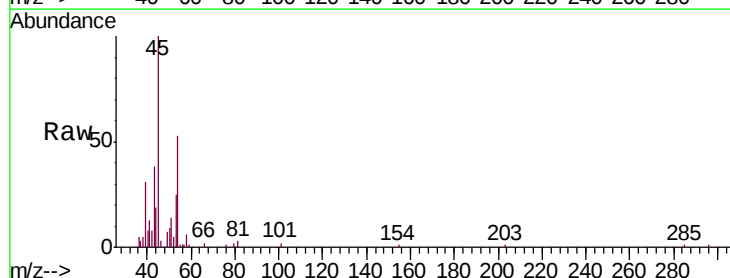
Acq: 2 Oct 2019 14:32

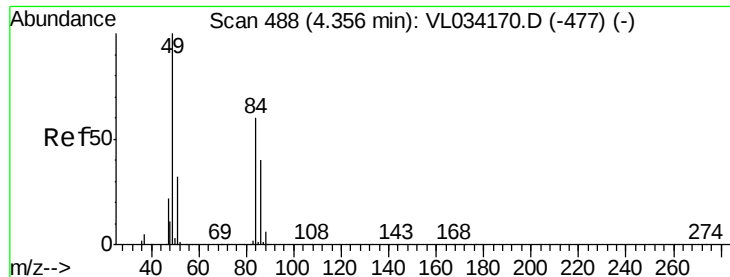
Tgt Ion: 45 Resp: 16901

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

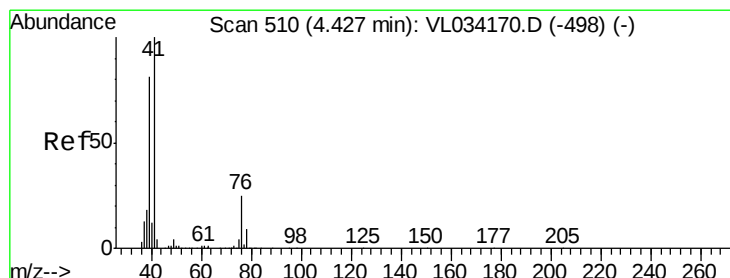
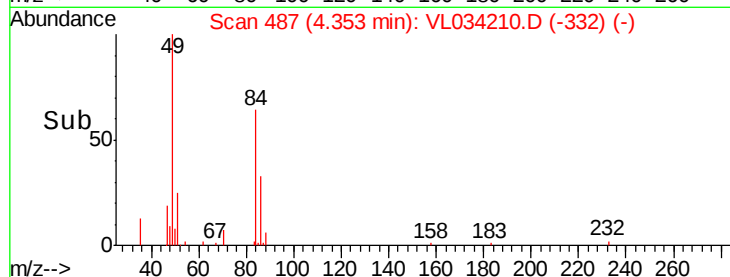
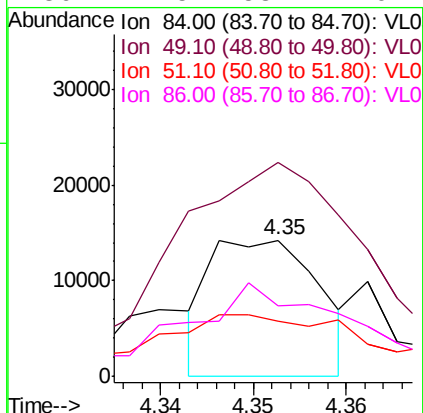
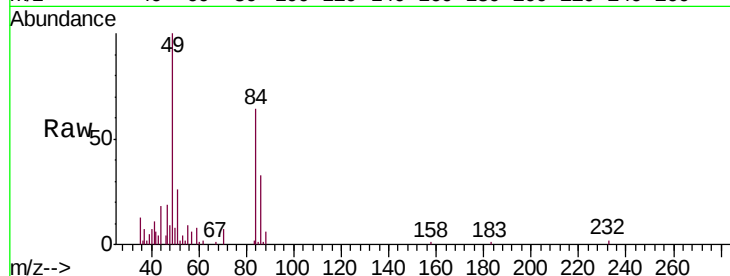




#20
Methylene Chloride
Concen: 0.298 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

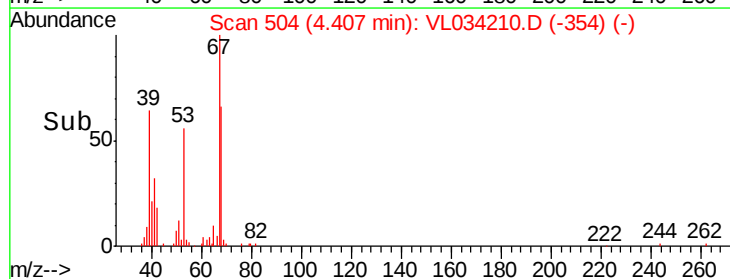
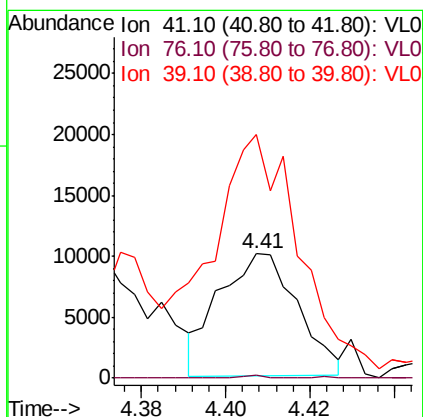
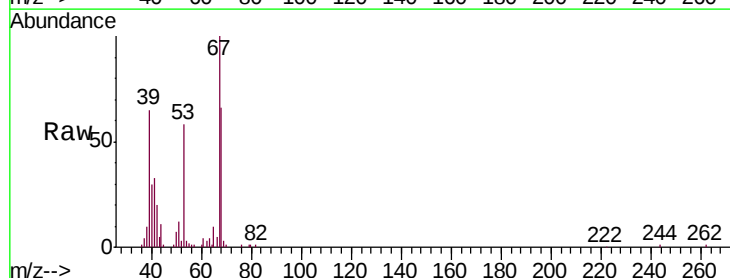
Instrument :
MSVOA_L
ClientSampleId :
SV-5DL

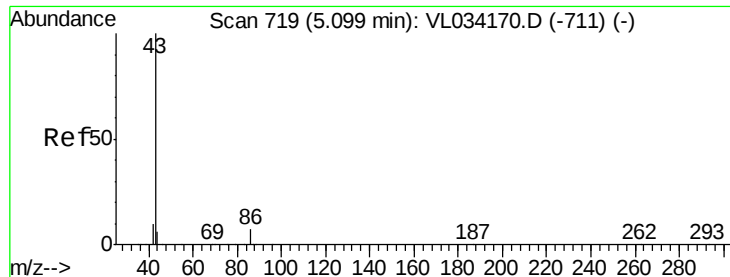
Tgt Ion: 84 Resp: 11564
Ion Ratio Lower Upper
84 100
49 74.0 133.8 200.8#
51 16.6 43.6 65.4#
86 22.5 53.1 79.7#



#21
Allyl Chloride
Concen: 0.170 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.02 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

Tgt Ion: 41 Resp: 12927
Ion Ratio Lower Upper
41 100
76 0.0 21.8 32.6#
39 328.1 64.8 97.2#





#23

Vinyl Acetate

Concen: 0.061 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.01 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

SV-5DL

Tgt Ion: 43 Resp: 12062

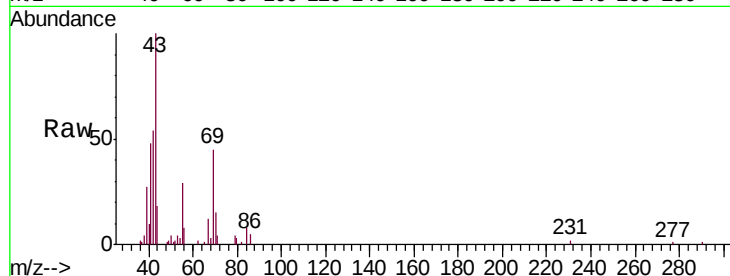
Ion Ratio Lower Upper

43 100

86 2.6 5.1 7.7#

42 65.5 8.6 12.8#

44 16.3 4.7 7.1#

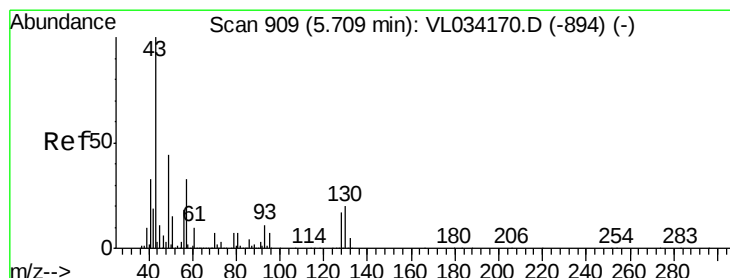
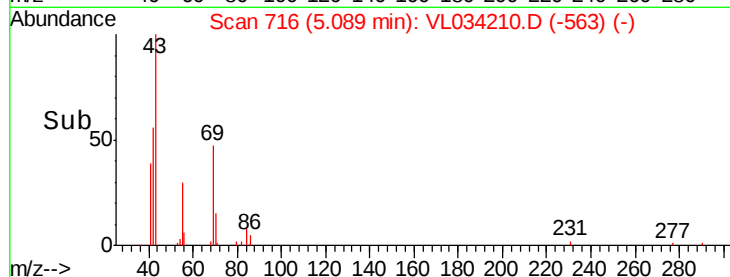
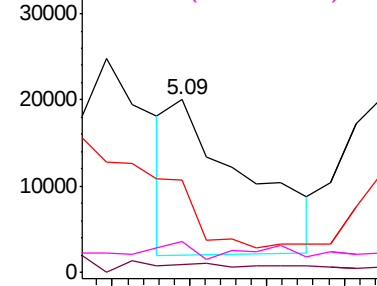


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.144 ppbv

RT: 5.71 min Scan# 910

Delta R.T. 0.00 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Tgt Ion: 43 Resp: 36567

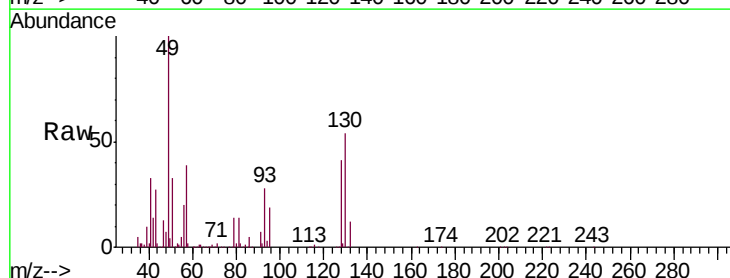
Ion Ratio Lower Upper

43 100

45 6.3 8.4 12.6#

61 4.1 7.2 10.8#

70 7.5 5.3 7.9

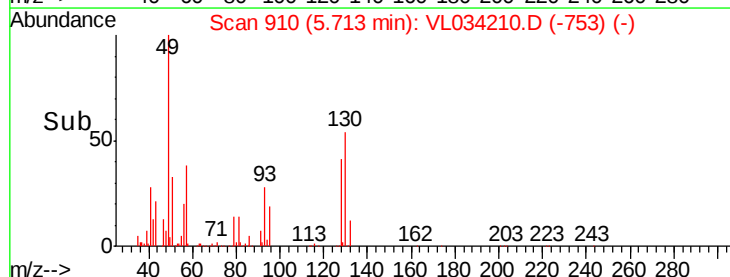
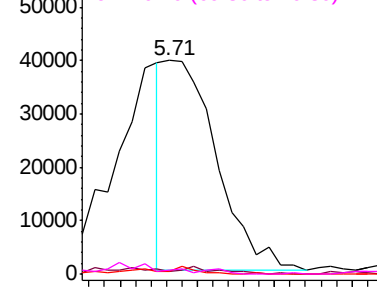


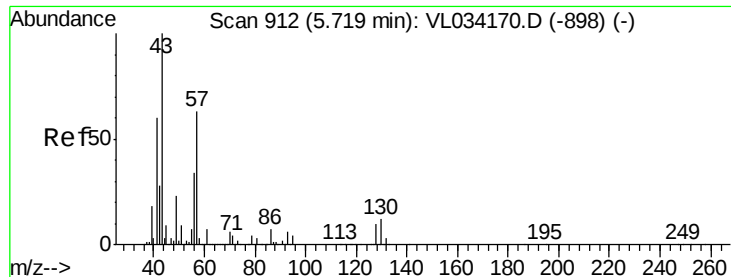
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

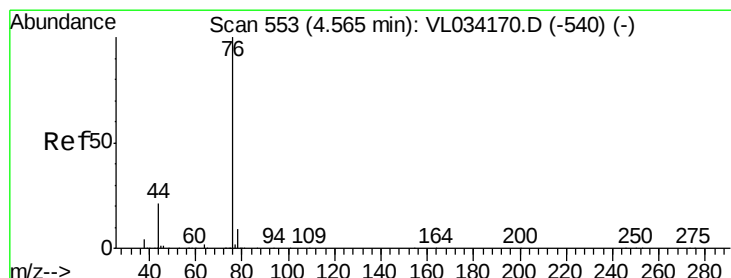
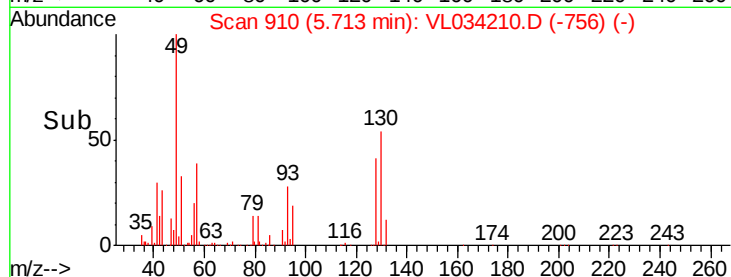
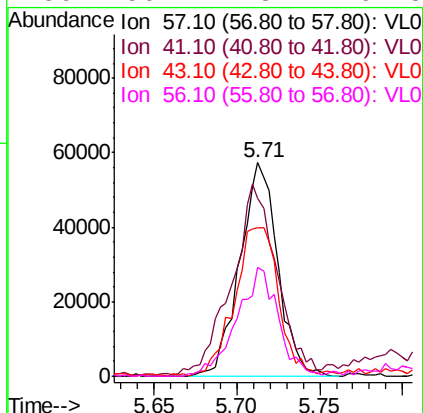
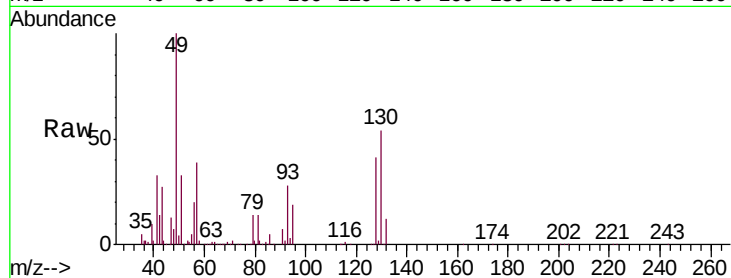




#26
Hexane
Concen: 0.861 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

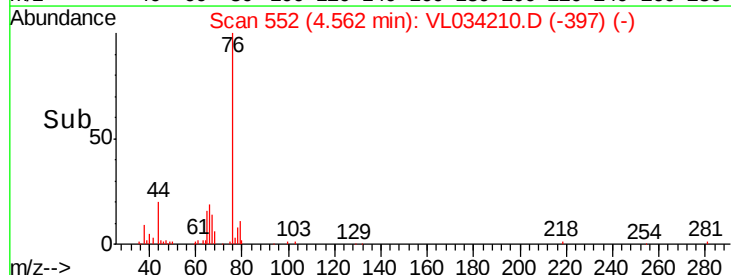
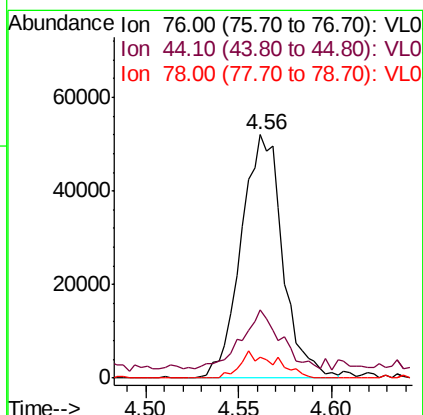
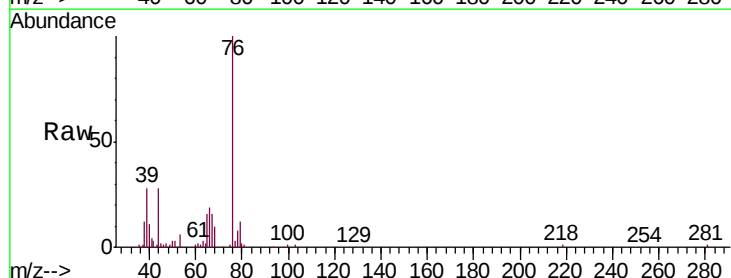
Instrument :
MSVOA_L
ClientSampleId :
SV-5DL

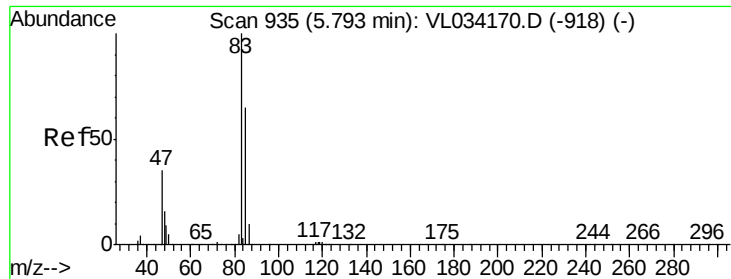
Tgt Ion: 57 Resp: 90991
Ion Ratio Lower Upper
57 100
41 105.5 78.5 117.7
43 80.1 189.5 284.3#
56 56.1 43.2 64.8



#27
Carbon Disulfide
Concen: 0.829 ppbv
RT: 4.56 min Scan# 552
Delta R.T. -0.00 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

Tgt Ion: 76 Resp: 80832
Ion Ratio Lower Upper
76 100
44 29.8 17.6 26.4#
78 9.5 7.6 11.4

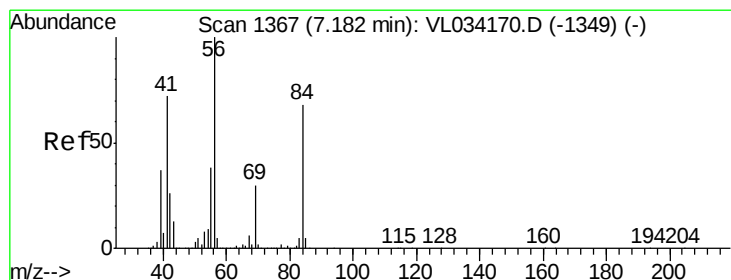
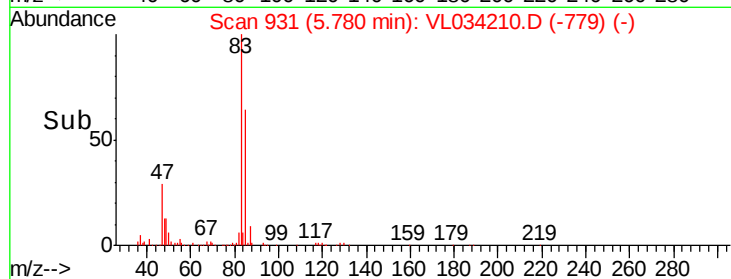
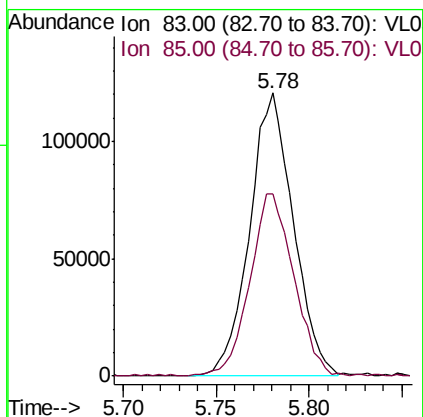
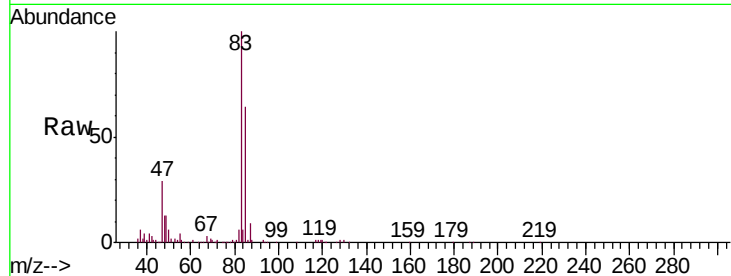




#29
Chloroform
Concen: 1.314 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

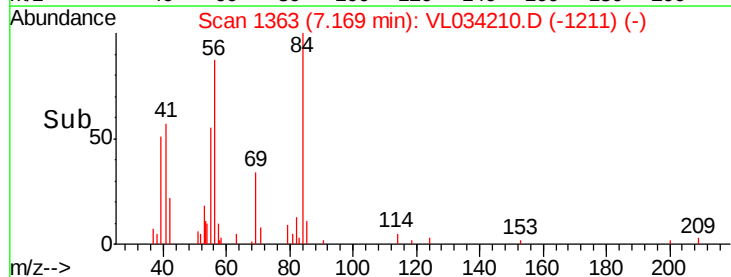
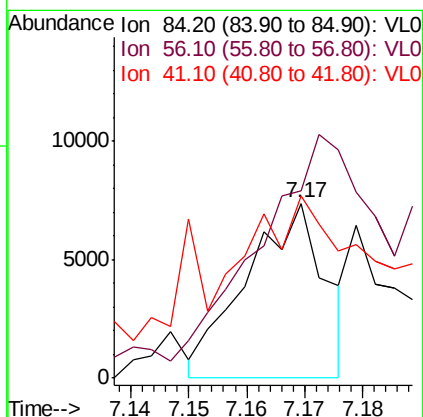
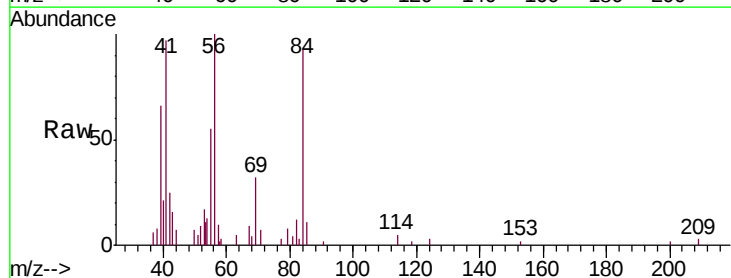
Instrument :
MSVOA_L
ClientSampleId :
SV-5DL

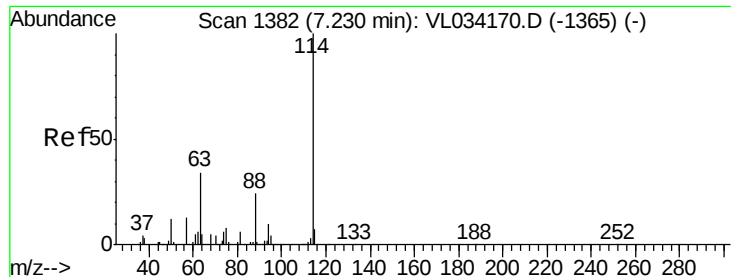
Tgt Ion: 83 Resp: 198529
Ion Ratio Lower Upper
83 100
85 64.0 52.3 78.5



#30
Cyclohexane
Concen: 0.091 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

Tgt Ion: 84 Resp: 6922
Ion Ratio Lower Upper
84 100
56 0.0 126.2 189.2#
41 413.6 85.8 128.8#

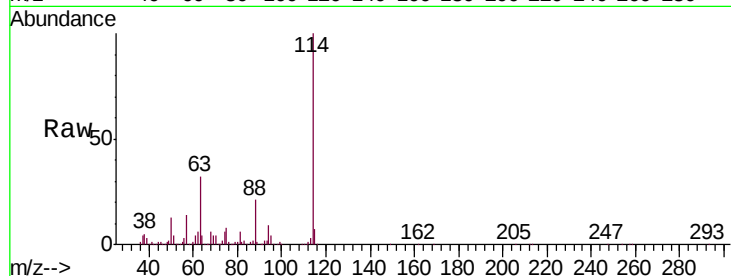




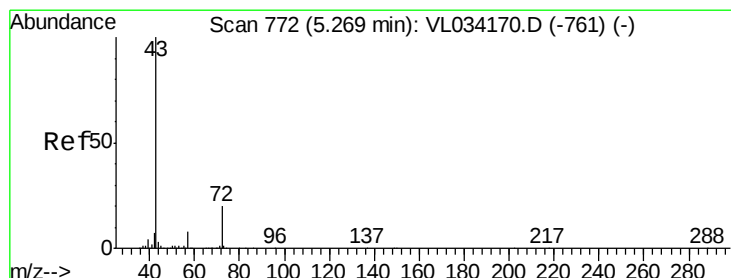
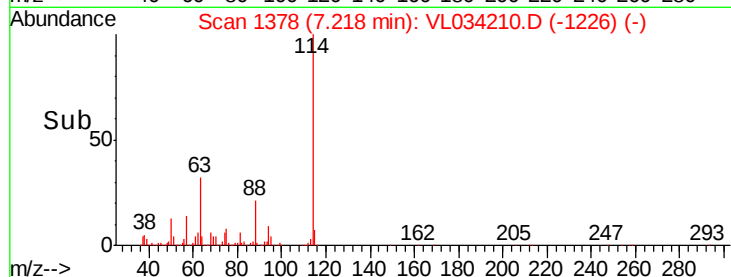
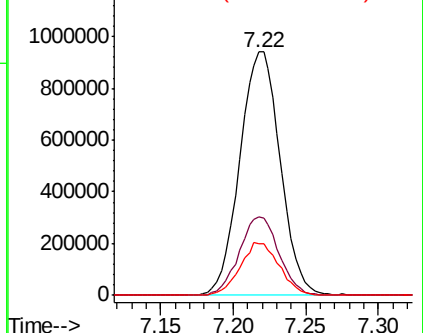
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DL

Tgt Ion: 114 Resp: 1824574
 Ion Ratio Lower Upper
 114 100
 63 31.8 27.8 41.6
 88 21.1 17.1 25.7

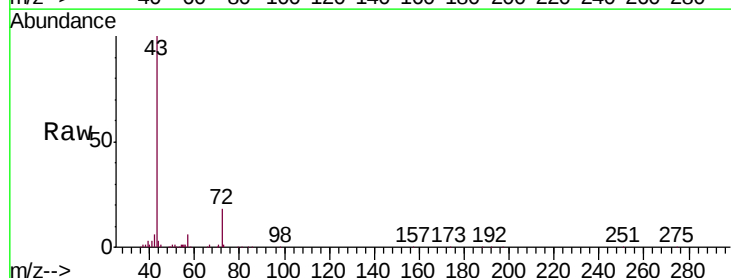


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

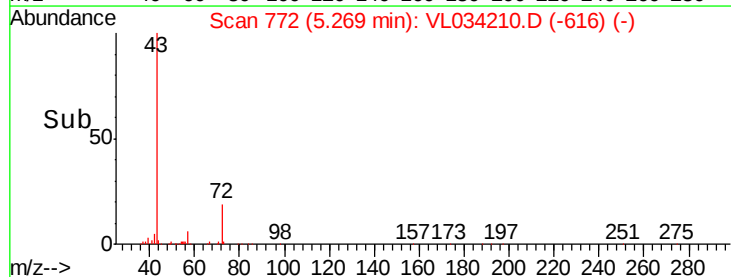
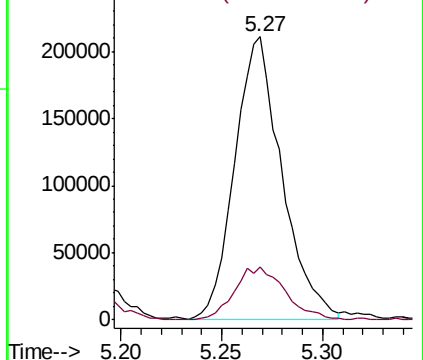


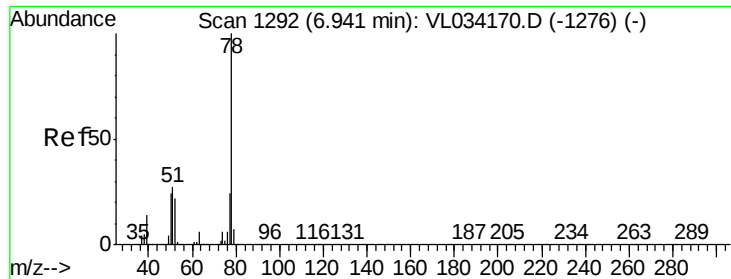
#34
 2-Butanone
 Concen: 1.841 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Tgt Ion: 43 Resp: 343058
 Ion Ratio Lower Upper
 43 100
 72 20.4 15.0 22.6



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





#36

Benzene

Concen: 1.334 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

SV-5DL

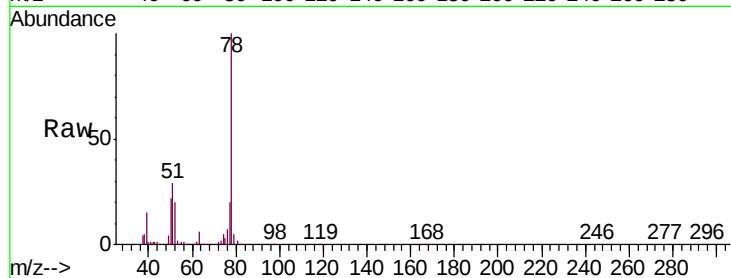
Tgt Ion: 78 Resp: 268879

Ion Ratio Lower Upper

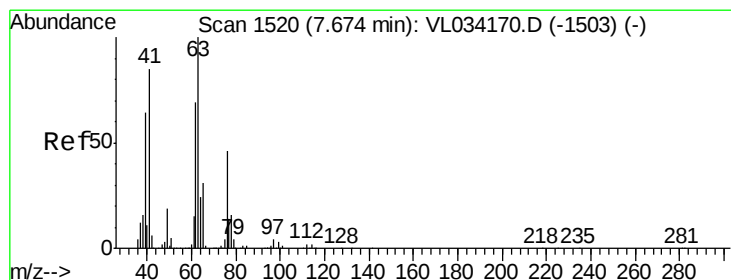
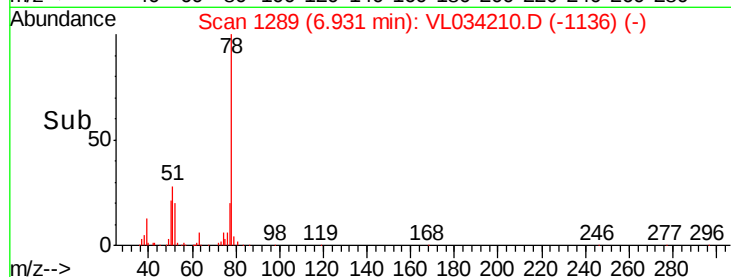
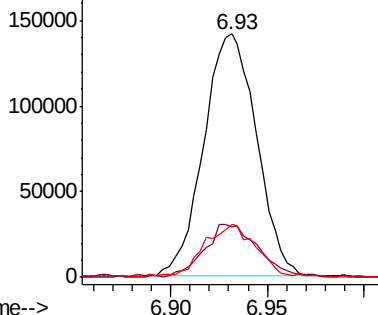
78 100

77 20.0 19.0 28.4

50 21.3 18.9 28.3



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: 6.323 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. -0.46 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

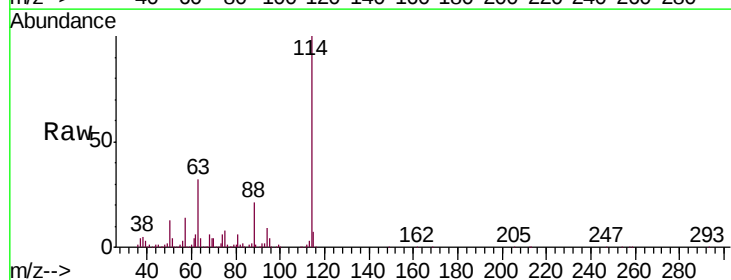
Tgt Ion: 63 Resp: 572517

Ion Ratio Lower Upper

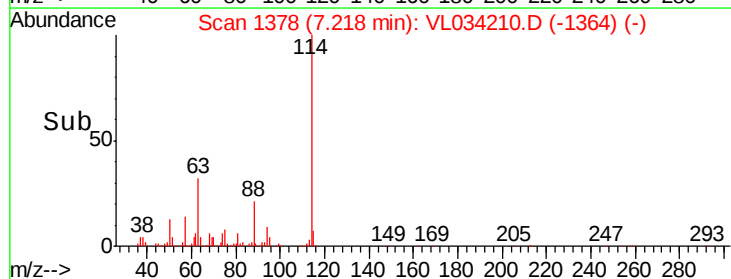
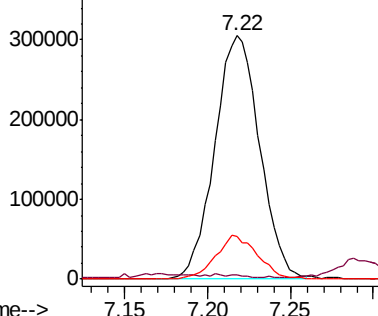
63 100

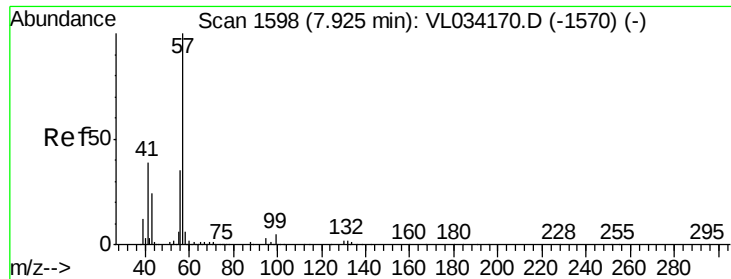
41 0.4 68.4 102.6#

62 17.6 55.4 83.2#



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

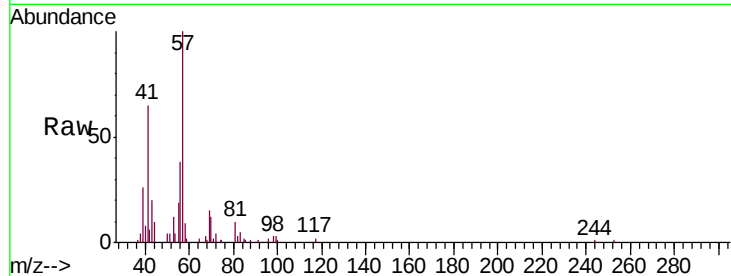




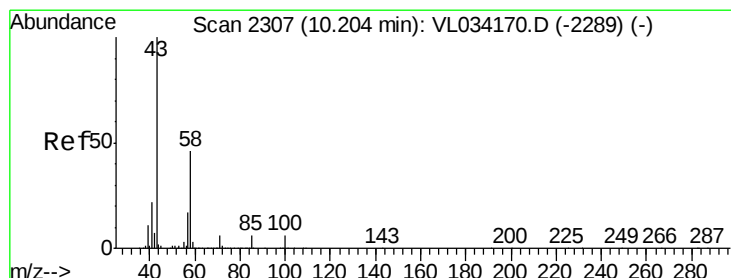
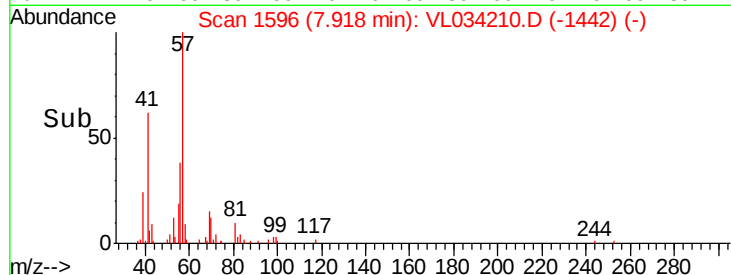
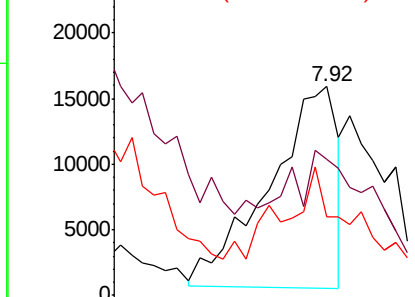
#44
 2,2,4-Trimethylpentane
 Concen: 0.053 ppbv
 RT: 7.92 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DL

Tgt Ion: 57 Resp: 20406
 Ion Ratio Lower Upper
 57 100
 41 114.8 29.8 44.6#
 56 77.0 25.9 38.9#

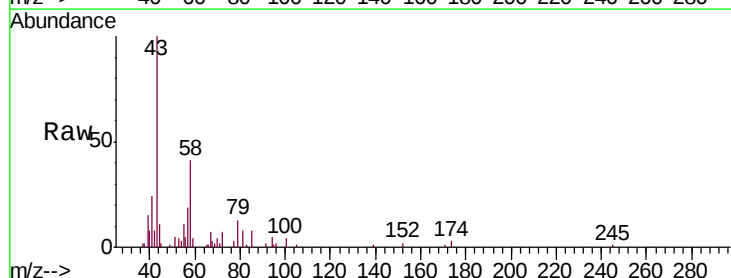


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

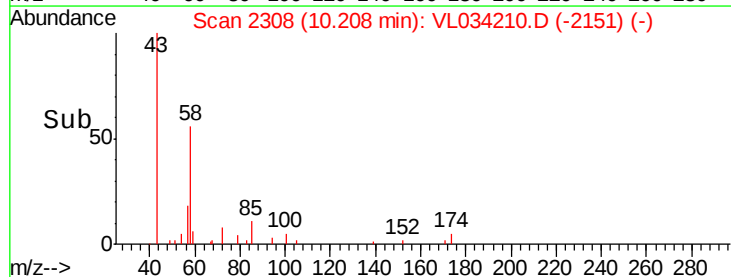
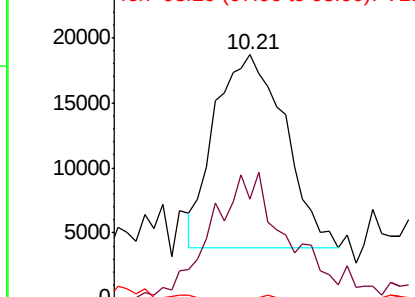


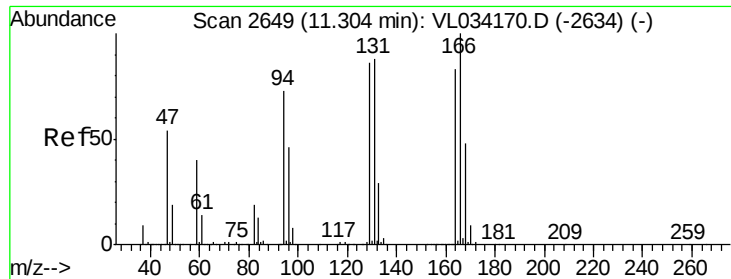
#51
 2-Hexanone
 Concen: 0.117 ppbv
 RT: 10.21 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Tgt Ion: 43 Resp: 26582
 Ion Ratio Lower Upper
 43 100
 58 72.2 36.2 54.4#
 98 0.0 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 2.384 ppbv

RT: 11.29 min Scan# 2645

Delta R.T. -0.01 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

SV-5DL

Tgt Ion:164 Resp: 158689

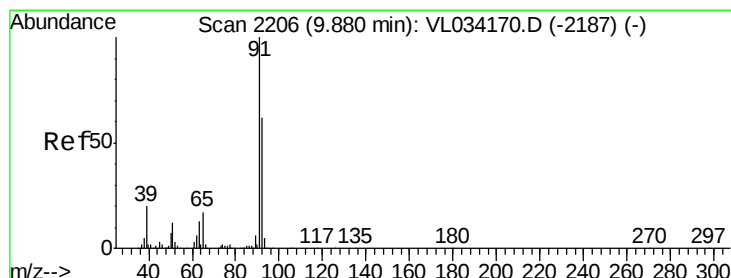
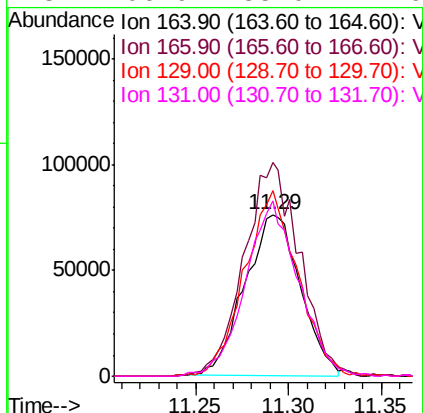
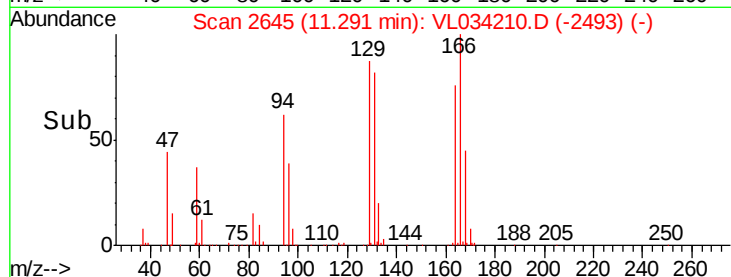
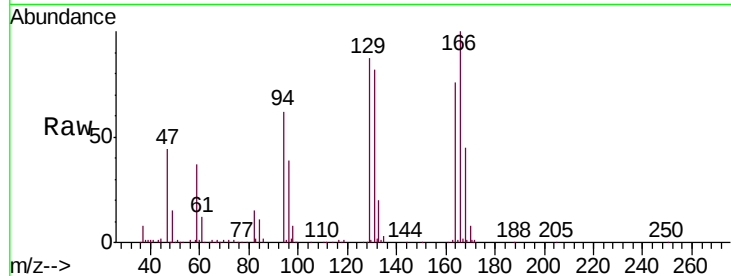
Ion Ratio Lower Upper

164 100

166 132.6 96.7 145.1

129 115.4 82.8 124.2

131 106.9 85.0 127.6



#53

Toluene

Concen: 1.033 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. -0.01 min

Lab File: VL034210.D

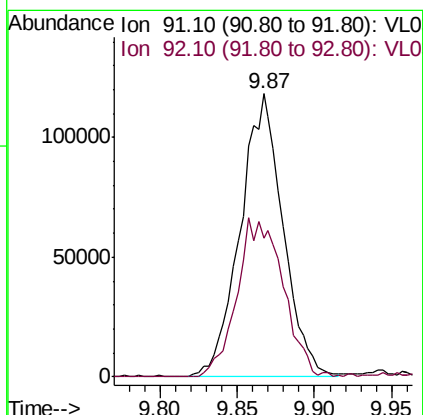
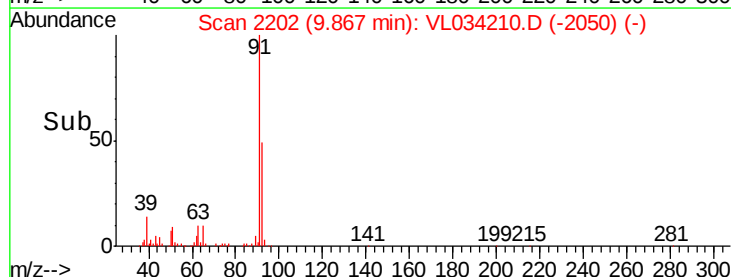
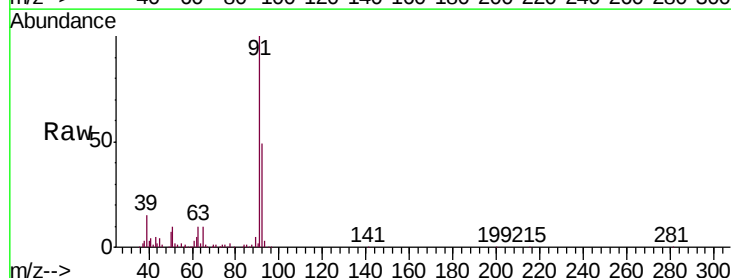
Acq: 2 Oct 2019 14:32

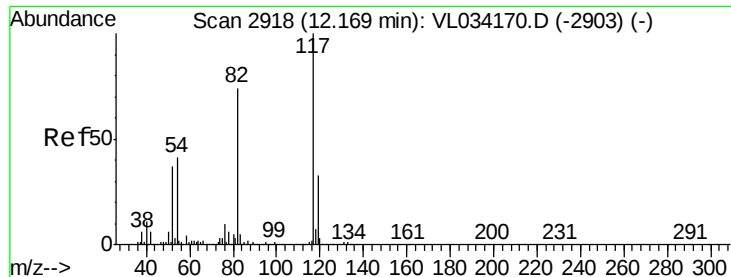
Tgt Ion: 91 Resp: 227440

Ion Ratio Lower Upper

91 100

92 60.0 49.0 73.6

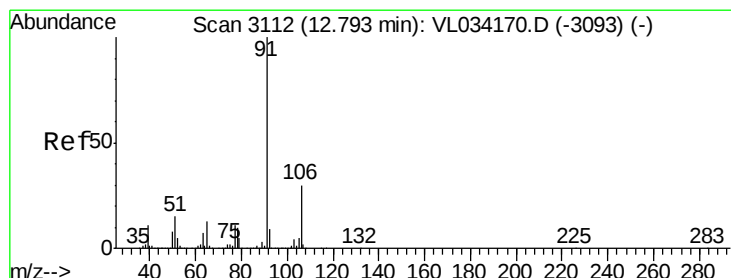
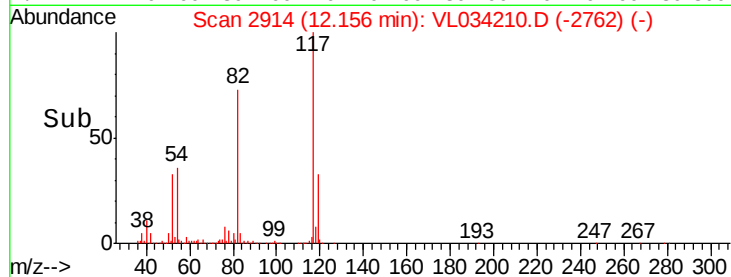
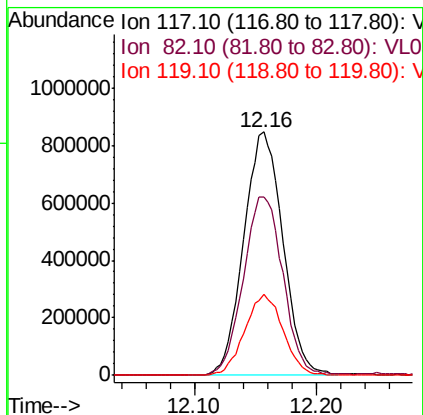
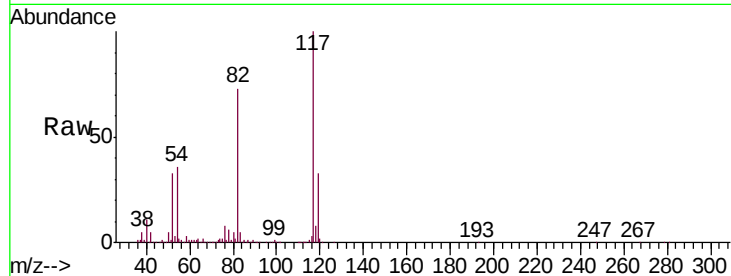




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.01 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

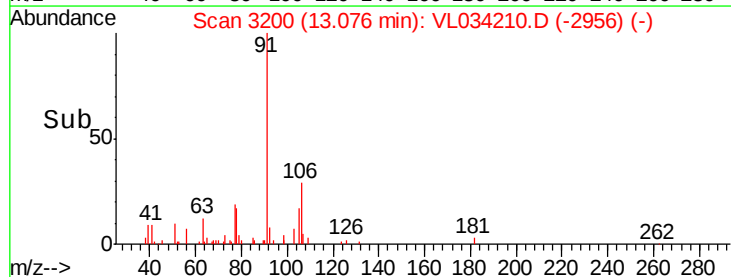
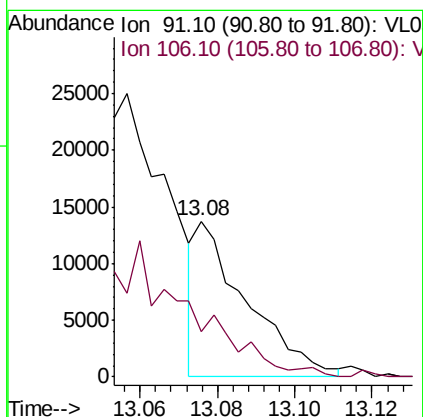
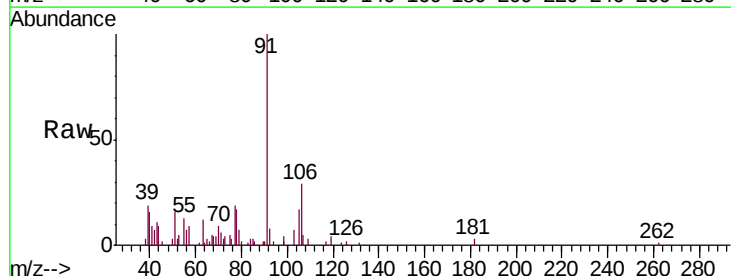
Instrument :
MSVOA_L
ClientSampleId :
SV-5DL

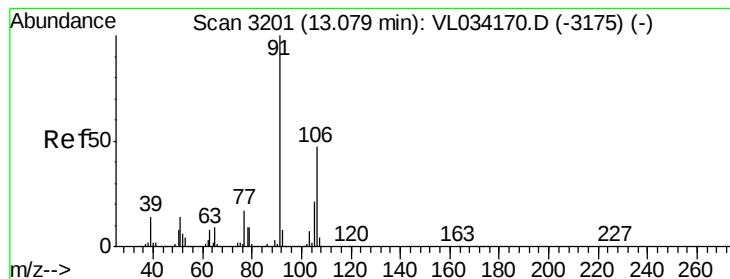
Tgt Ion: 117 Resp: 1875898
Ion Ratio Lower Upper
117 100
82 74.3 58.2 87.4
119 32.7 23.7 35.5



#58
Ethyl Benzene
Concen: 0.041 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. 0.28 min
Lab File: VL034210.D
Acq: 2 Oct 2019 14:32

Tgt Ion: 91 Resp: 12520
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.4





#59

m/p-Xylene

Concen: 0.083 ppbv

RT: 13.06 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VL034210.D

Acq: 2 Oct 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

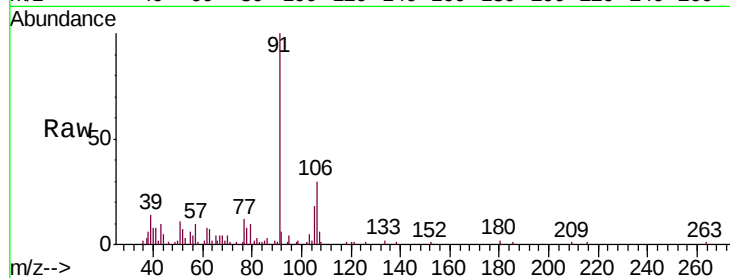
SV-5DL

Tgt Ion: 91 Resp: 20752

Ion Ratio Lower Upper

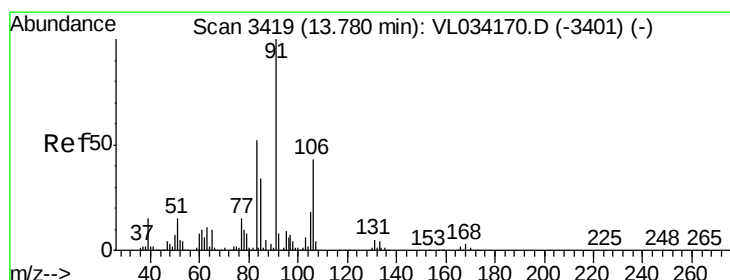
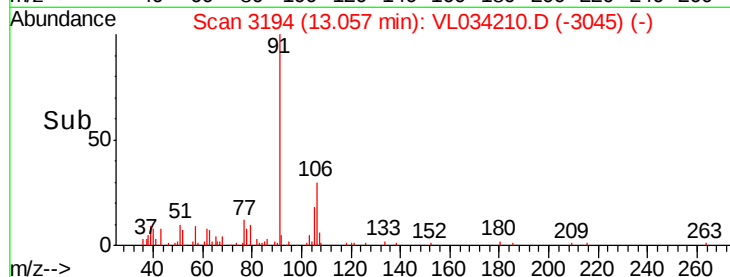
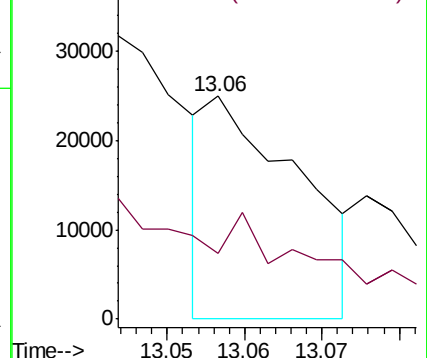
91 100

106 0.0 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.094 ppbv

RT: 13.77 min Scan# 3416

Delta R.T. -0.01 min

Lab File: VL034210.D

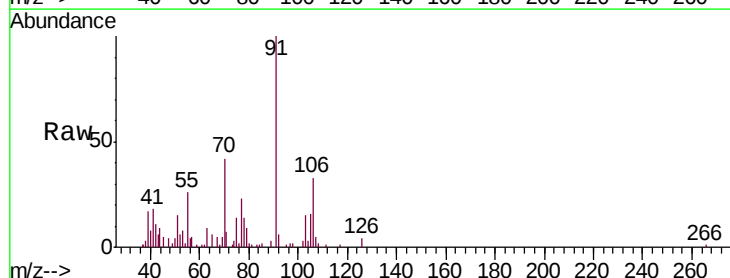
Acq: 2 Oct 2019 14:32

Tgt Ion: 91 Resp: 23522

Ion Ratio Lower Upper

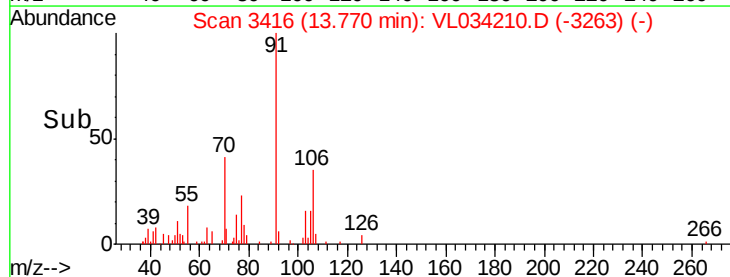
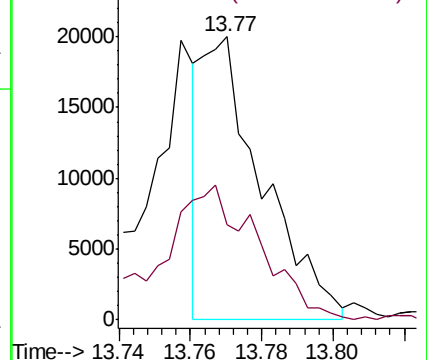
91 100

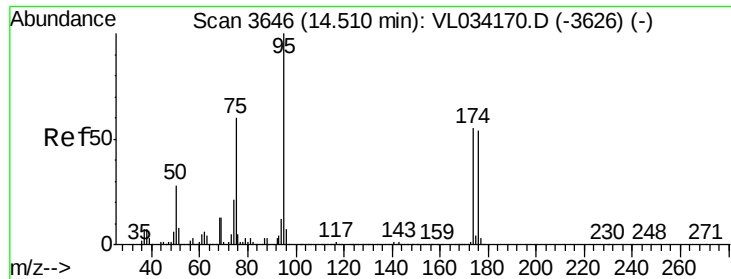
106 78.7 21.2 63.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

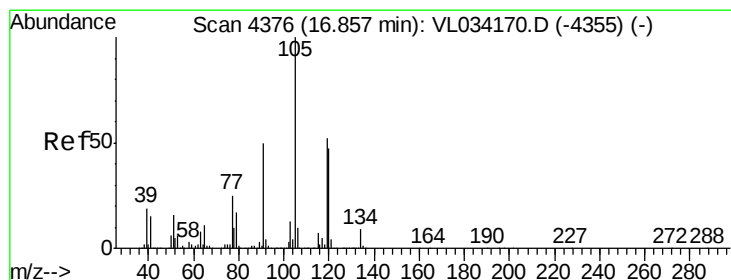
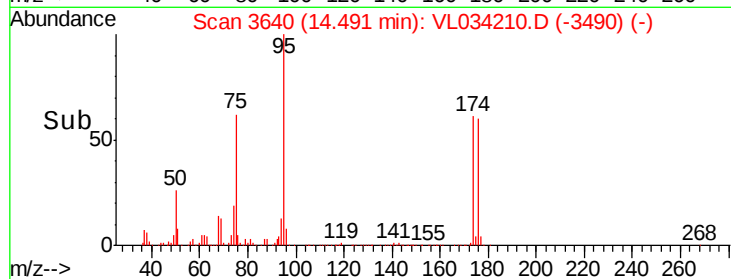
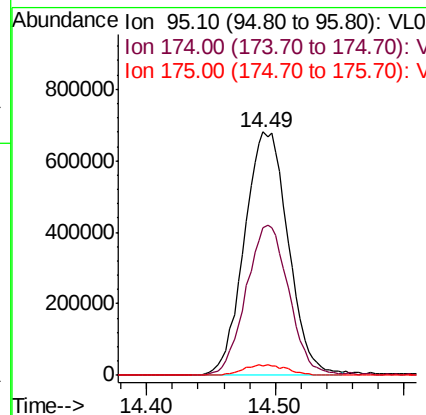
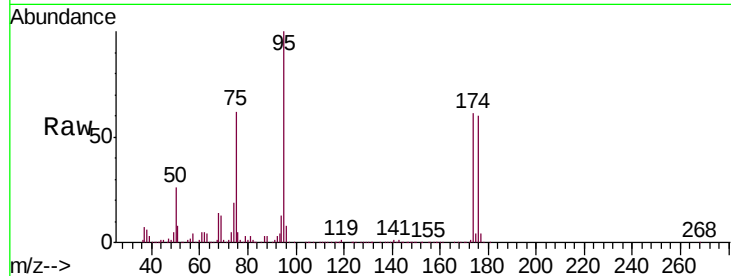




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.878 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. -0.02 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DL

Tgt Ion: 95 Resp: 1610120
 Ion Ratio Lower Upper
 95 100
 174 60.5 45.1 67.7
 175 4.3 3.3 4.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.102 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.02 min
 Lab File: VL034210.D
 Acq: 2 Oct 2019 14:32

Tgt Ion: 105 Resp: 29522
 Ion Ratio Lower Upper
 105 100
 120 37.0 37.5 56.3#
 91 19.5 41.1 61.7#
 77 17.5 19.9 29.9#

