

Data File : VL033756.D
Acq On : 22 May 2019 22:45
Operator : SY/AP
Sample : K2929-20DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-25DL

Quant Time: May 23 04:25:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	990382	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2452683	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2402544	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1944244	9.98	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

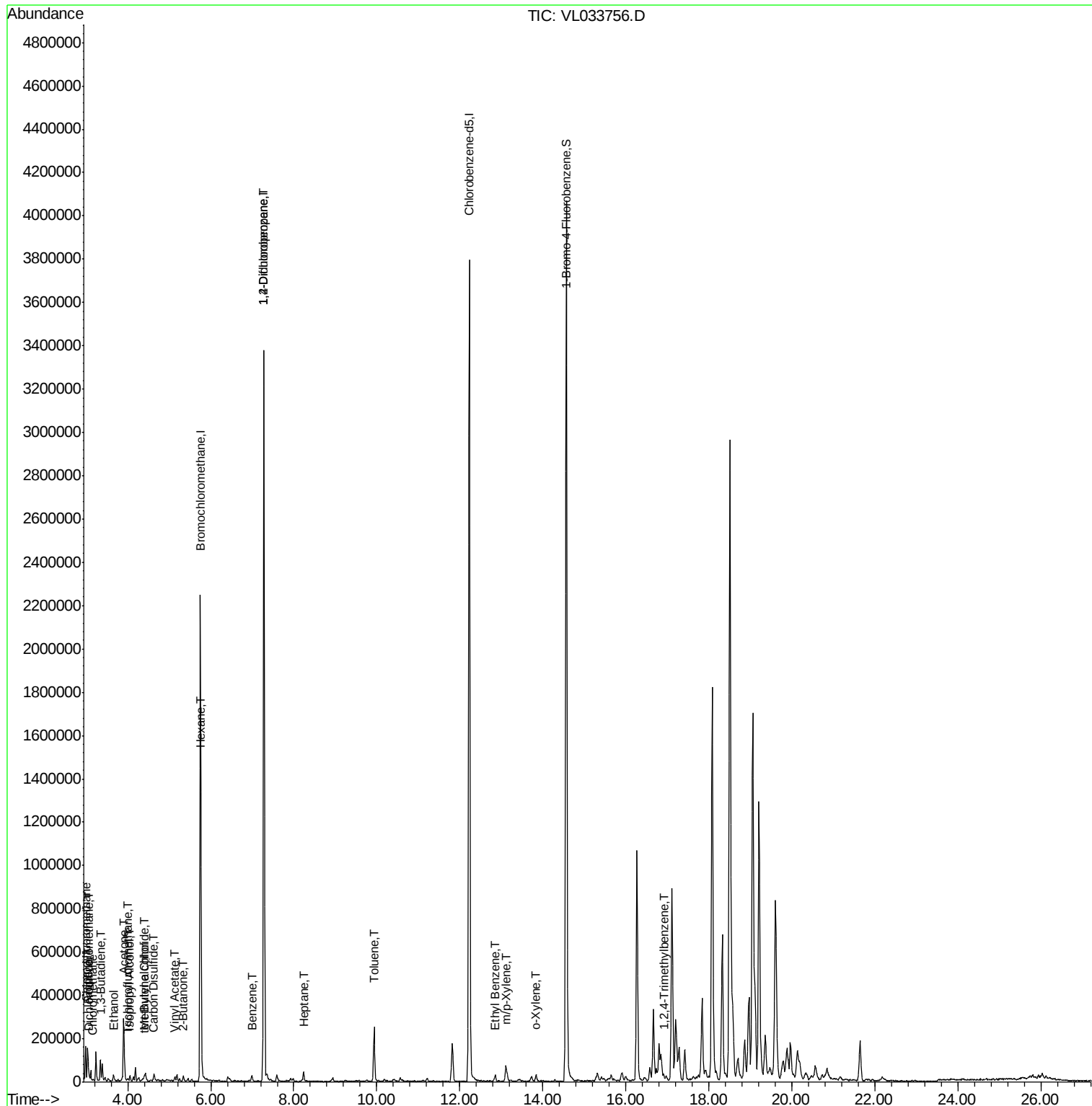
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.07	85	10430	0.050	ppbv #	88
3) Chlorodifluoromethane	2.98	51	91120	0.803	ppbv #	60
4) Chloromethane	3.17	50	3084	0.048	ppbv	95
9) Propene	3.03	41	51988	1.077	ppbv	92
10) Heptane	8.23	43	6187	0.045	ppbv #	26
11) Trichlorofluoromethane	4.00	101	4521	0.023	ppbv	90
13) Ethanol	3.66	45	23728	1.521	ppbv	93
15) Acetone	3.90	43	298745	2.174	ppbv	96
16) 1,3-Butadiene	3.34	39	28826	0.527	ppbv #	29
17) tert-Butyl alcohol	4.38	59	2268	0.020	ppbv #	72
19) Isopropyl Alcohol	4.05	45	9073	0.102	ppbv #	94
20) Methylene Chloride	4.40	84	6091	0.115	ppbv #	71
23) Vinyl Acetate	5.14	43	2250	0.012	ppbv #	1
26) Hexane	5.77	57	17233	0.166	ppbv #	77
27) Carbon Disulfide	4.61	76	2716	0.019	ppbv #	1
34) 2-Butanone	5.33	43	11055	0.073	ppbv #	54
36) Benzene	6.99	78	20133	0.090	ppbv #	83
39) 1,2-Dichloropropane	7.28	63	595219	7.156	ppbv #	23
53) Toluene	9.93	91	187256	0.778	ppbv	98
58) Ethyl Benzene	12.85	91	13155	0.041	ppbv	96
59) m/p-Xylene	13.14	91	16826	0.060	ppbv #	31
60) o-Xylene	13.84	91	6598	0.024	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.91	105	9707	0.029	ppbv #	67

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-25DL

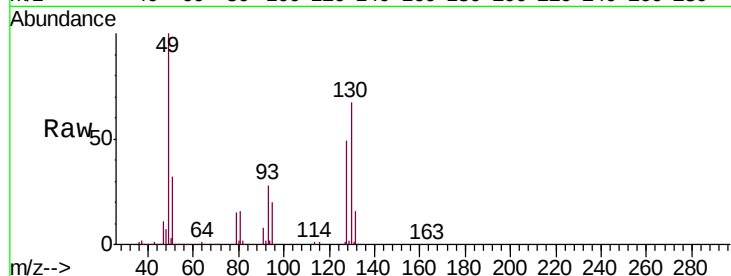
Tgt Ion: 49 Resp: 990382

Ion Ratio Lower Upper

49 100

128 52.2 25.2 75.6

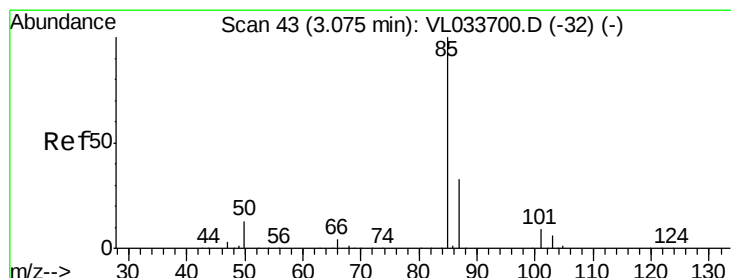
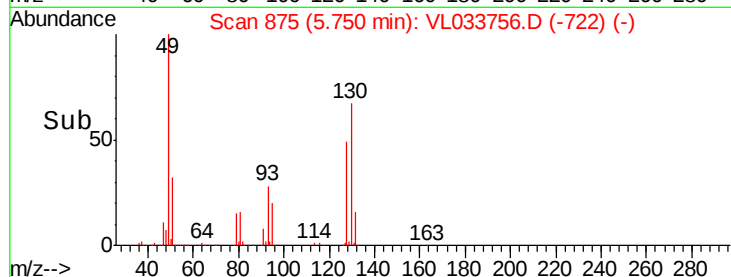
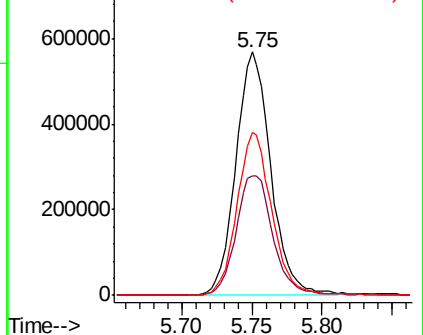
130 67.1 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033756.D

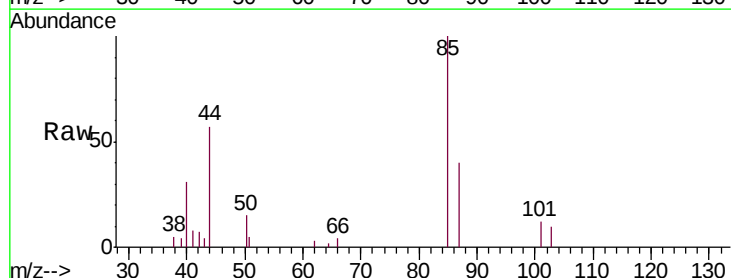
Acq: 22 May 2019 22:45

Tgt Ion: 85 Resp: 10430

Ion Ratio Lower Upper

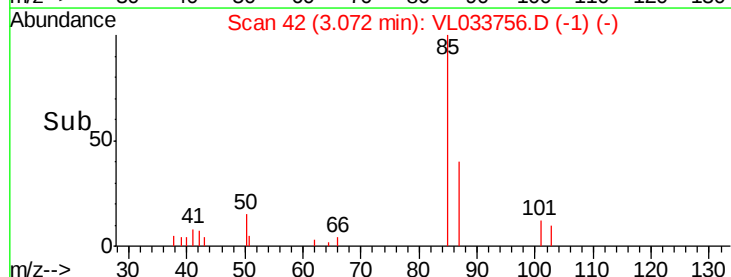
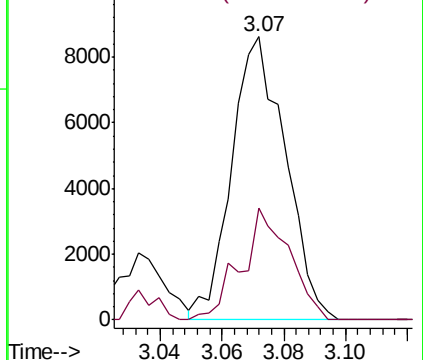
85 100

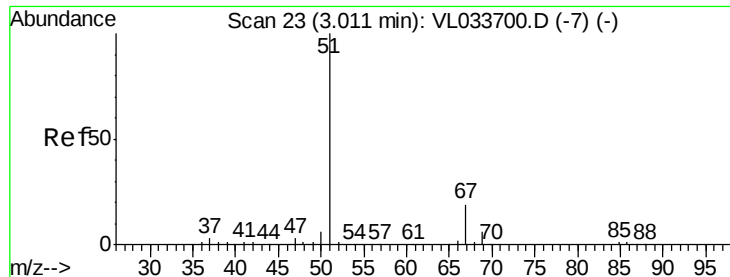
87 39.6 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.803 ppbv

RT: 2.98 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

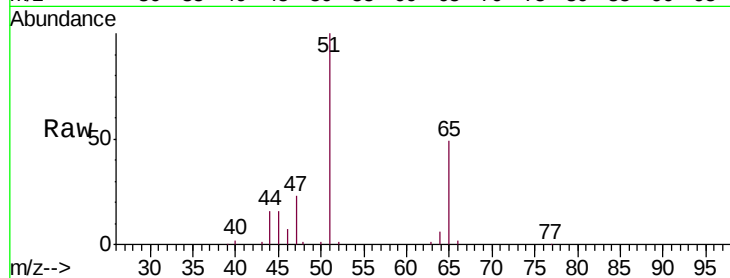
BPS1-SG-3002-25DL

Tgt Ion: 51 Resp: 91120

Ion Ratio Lower Upper

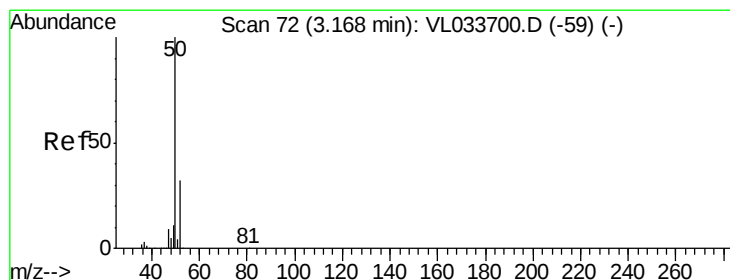
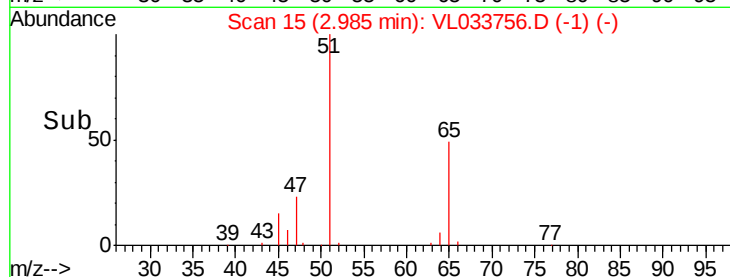
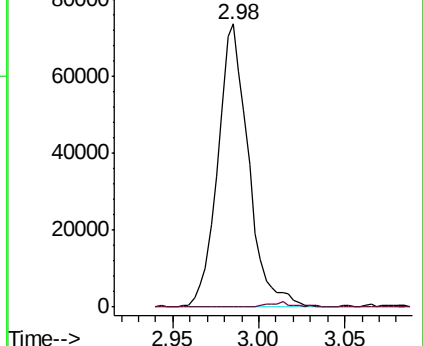
51 100

67 1.5 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033756.D

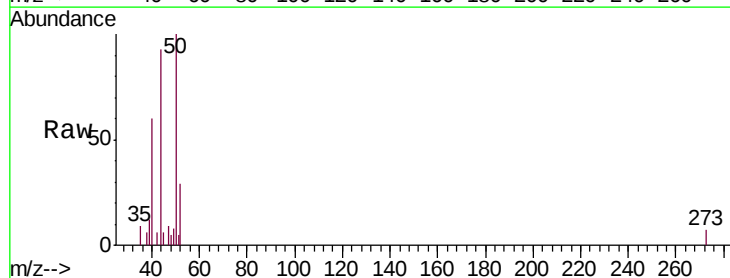
Acq: 22 May 2019 22:45

Tgt Ion: 50 Resp: 3084

Ion Ratio Lower Upper

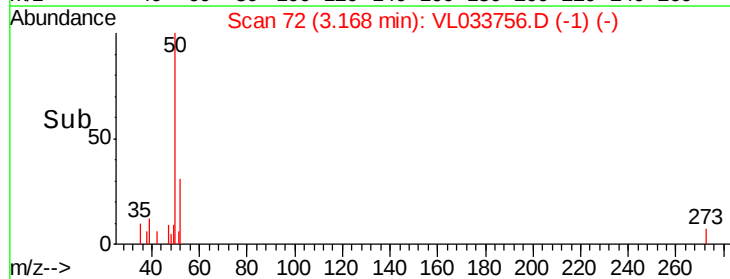
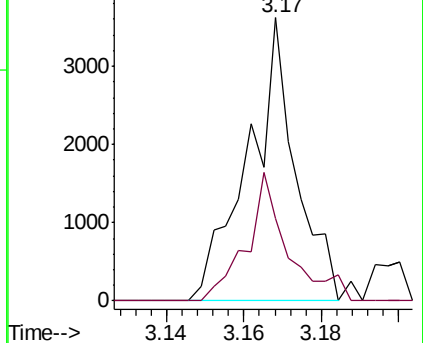
50 100

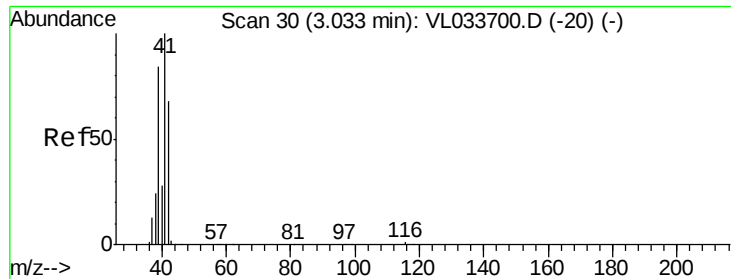
52 29.3 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.077 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

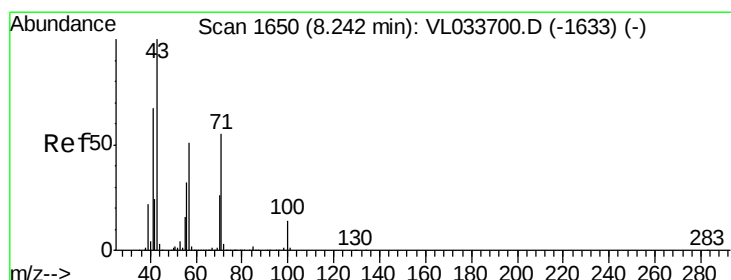
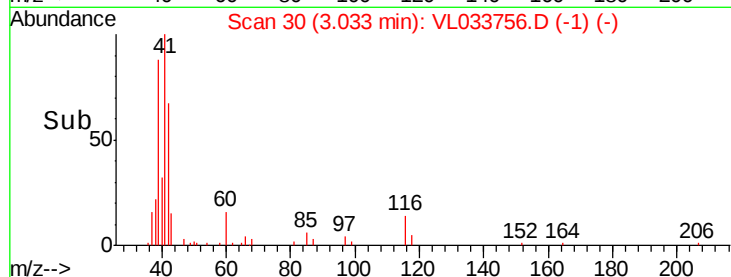
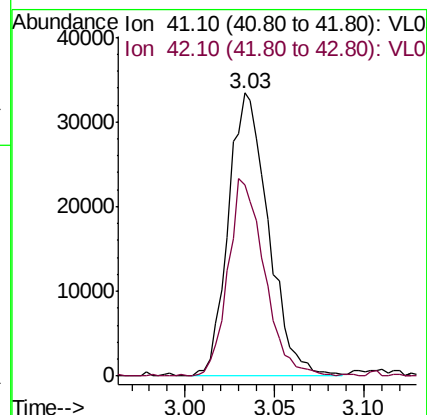
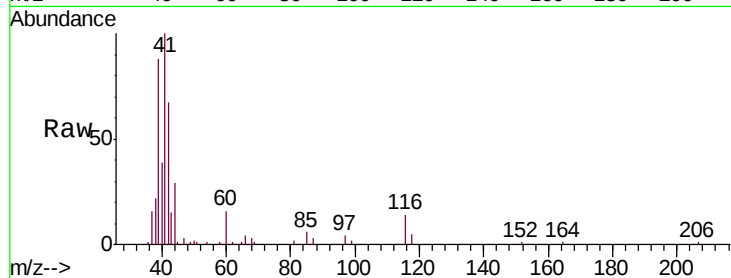
BPS1-SG-3002-25DL

Tgt Ion: 41 Resp: 51988

Ion Ratio Lower Upper

41 100

42 63.4 56.1 84.1



#10

Heptane

Concen: 0.045 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VL033756.D

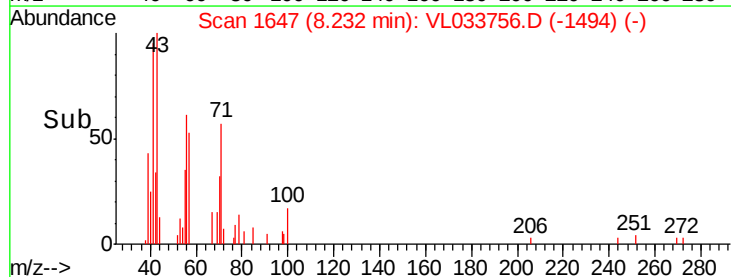
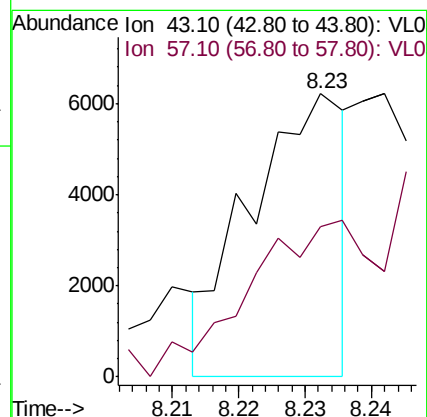
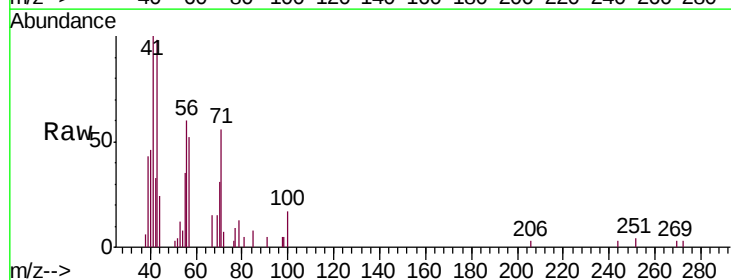
Acq: 22 May 2019 22:45

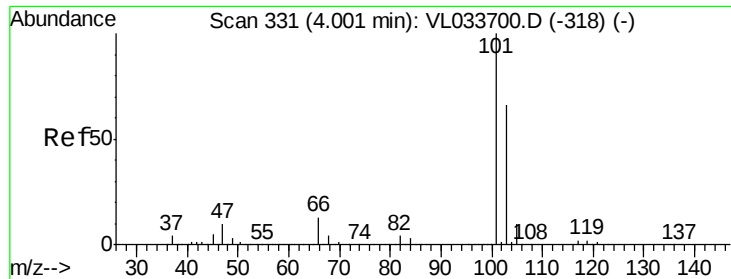
Tgt Ion: 43 Resp: 6187

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.0#

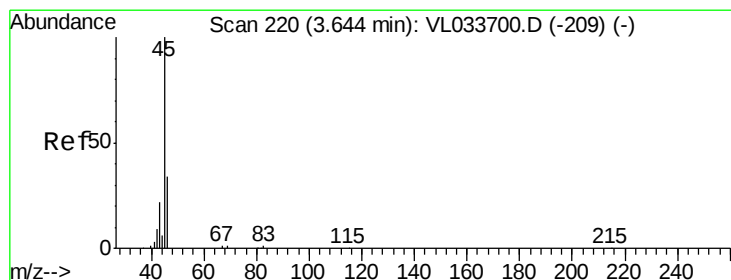
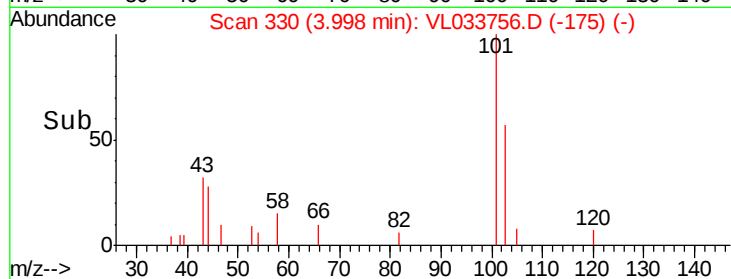
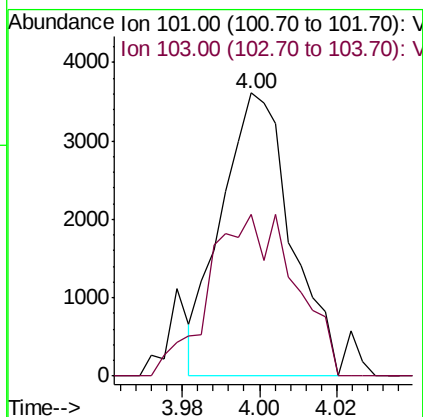
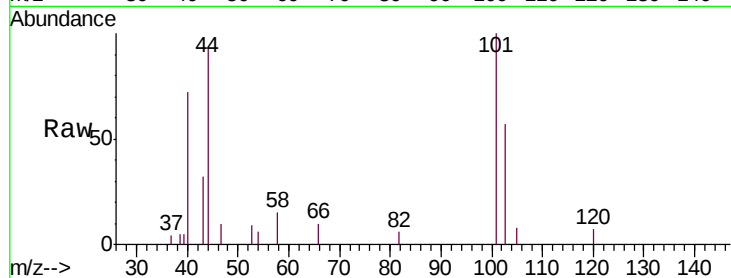




#11
 Trichlorofluoromethane
 Concen: 0.023 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

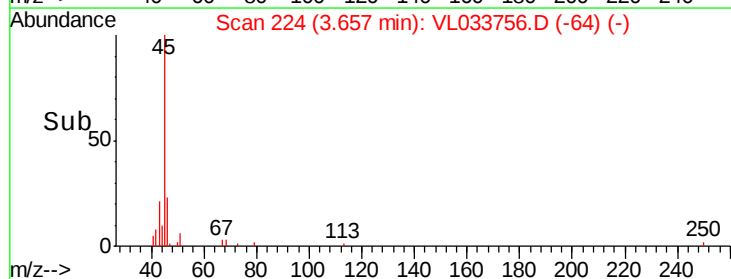
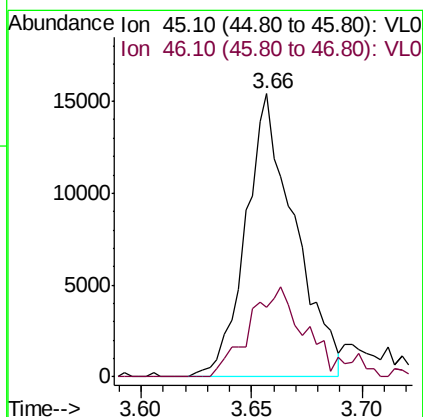
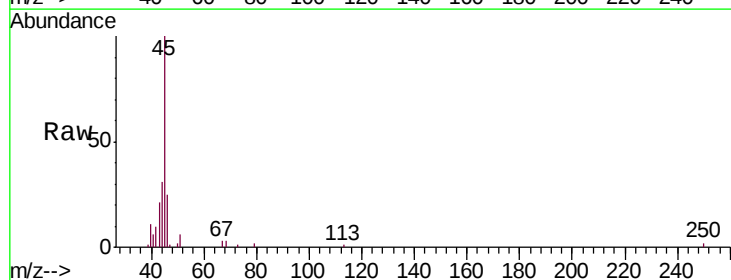
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-25DL

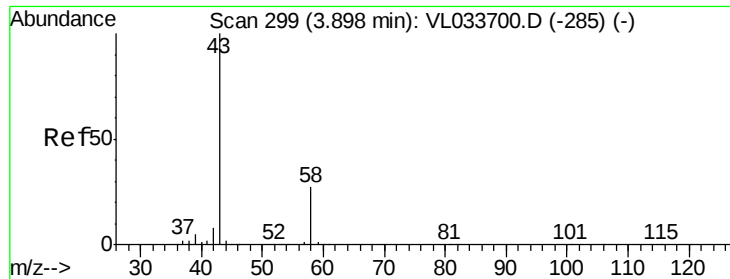
Tgt Ion: 101 Resp: 4521
 Ion Ratio Lower Upper
 101 100
 103 57.4 52.6 78.8



#13
 Ethanol
 Concen: 1.521 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

Tgt Ion: 45 Resp: 23728
 Ion Ratio Lower Upper
 45 100
 46 40.9 14.8 59.0





#15

Acetone

Concen: 2.174 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

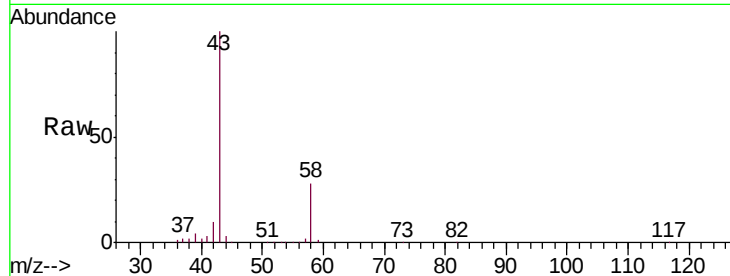
BPS1-SG-3002-25DL

Tgt Ion: 43 Resp: 298745

Ion Ratio Lower Upper

43 100

58 28.4 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

200000

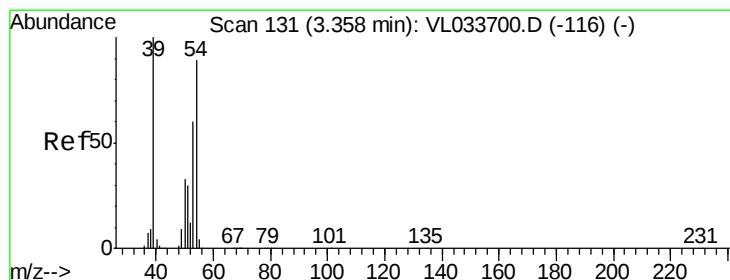
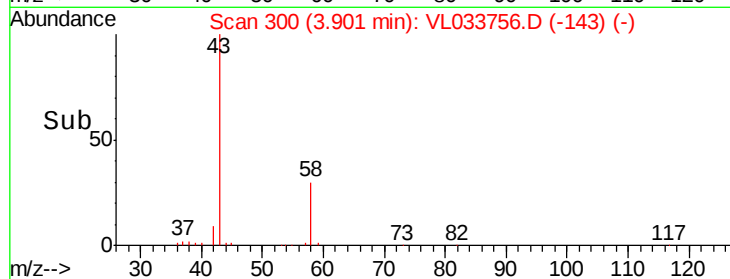
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 0.527 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.02 min

Lab File: VL033756.D

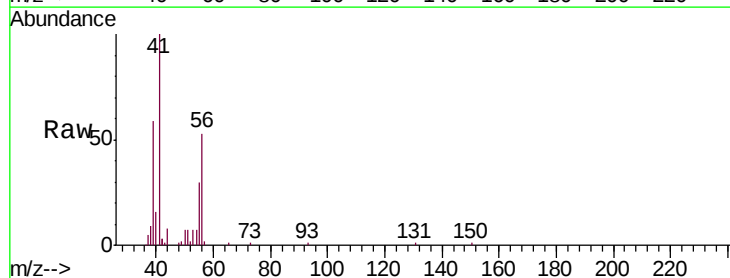
Acq: 22 May 2019 22:45

Tgt Ion: 39 Resp: 28826

Ion Ratio Lower Upper

39 100

54 20.7 69.0 103.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.34

20000

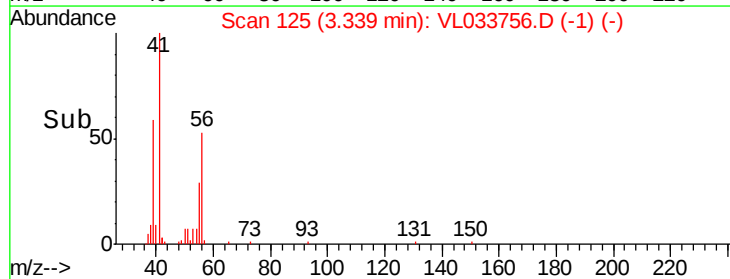
15000

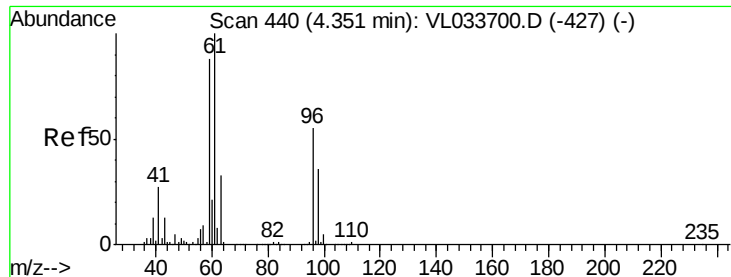
10000

5000

0

Time-->

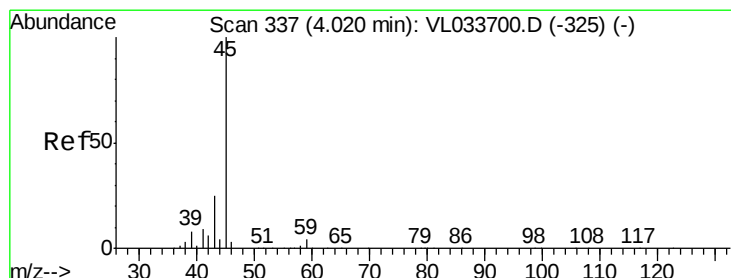
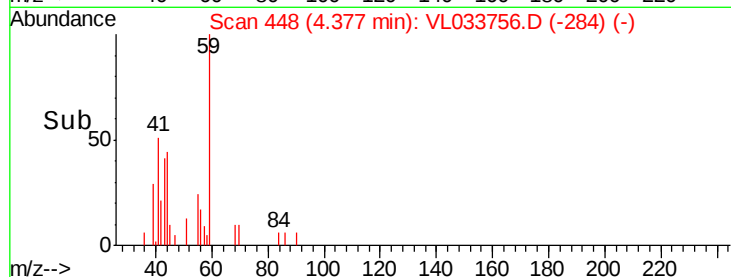
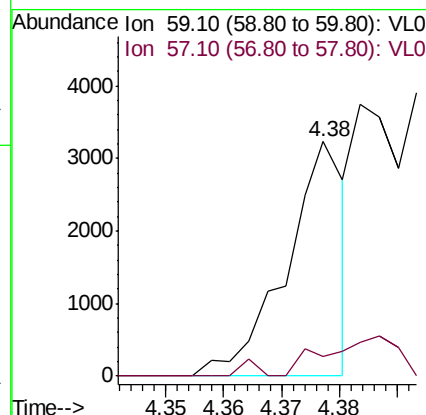
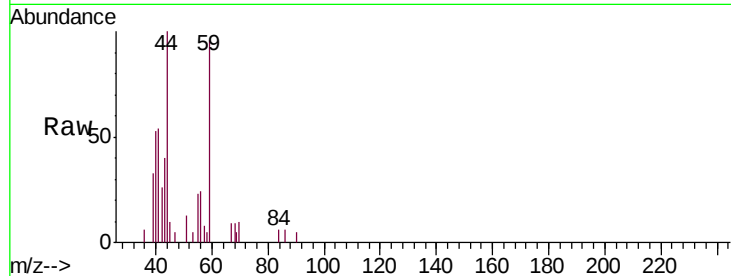




#17
 tert-Butyl alcohol
 Concen: 0.020 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. 0.03 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

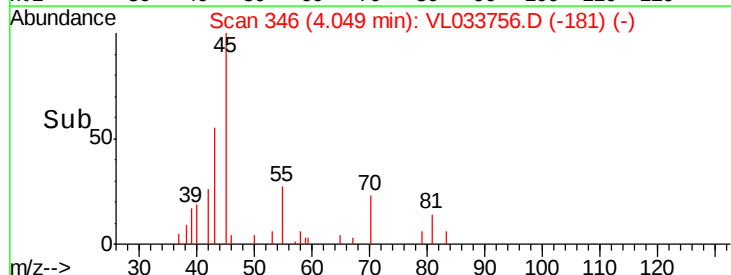
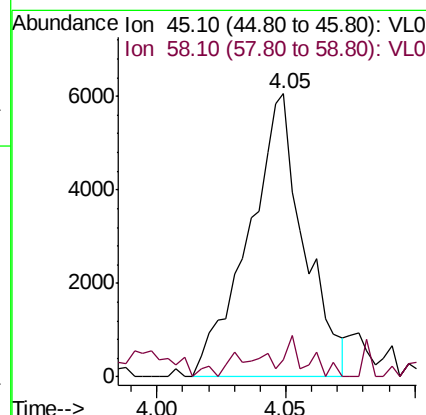
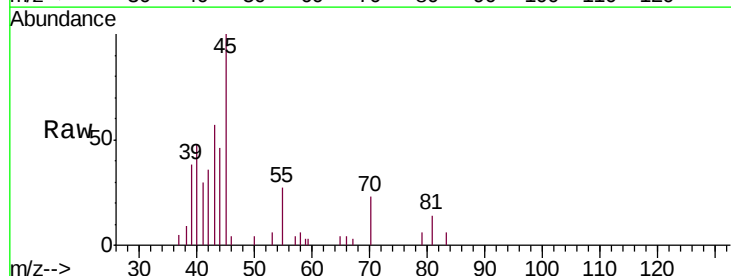
Instrument :
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 BPS1-SG-3002-25DL

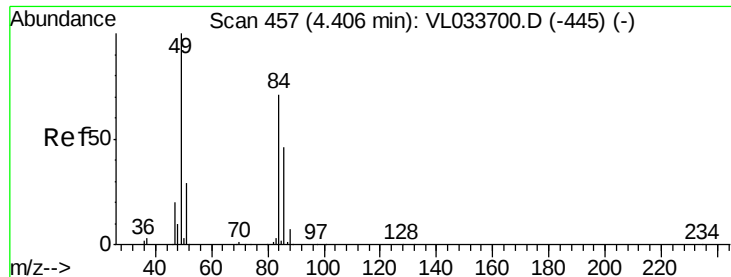
Tgt Ion: 59 Resp: 2268
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#



#19
 Isopropyl Alcohol
 Concen: 0.102 ppbv
 RT: 4.05 min Scan# 346
 Delta R.T. 0.03 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

Tgt Ion: 45 Resp: 9073
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.6 2.4#





#20

Methylene Chloride

Concen: 0.115 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-25DL

Tgt Ion: 84 Resp: 6091

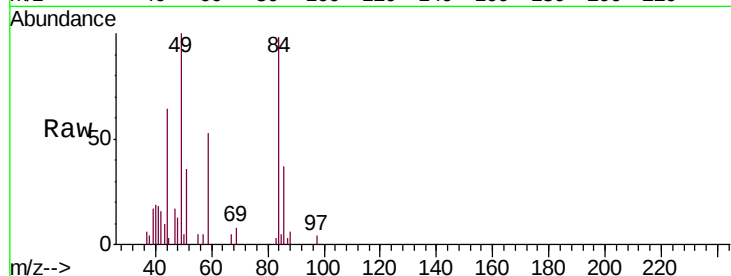
Ion Ratio Lower Upper

84 100

49 101.6 112.8 169.2#

51 36.3 33.4 50.0

86 38.1 51.7 77.5#

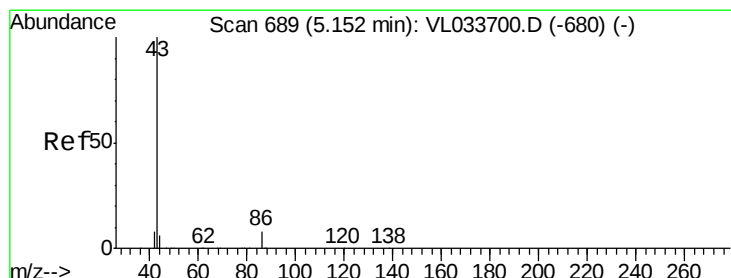
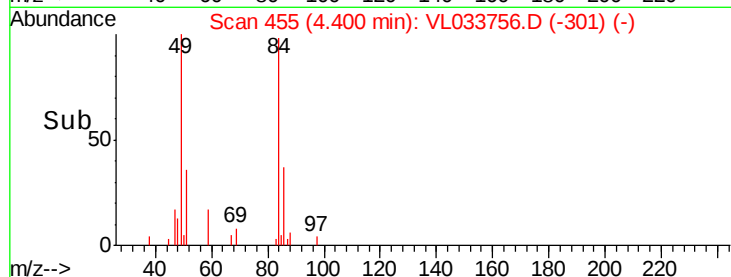
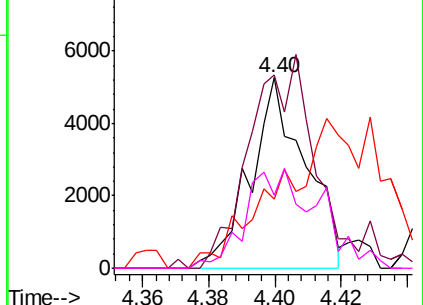


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.012 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Tgt Ion: 43 Resp: 2250

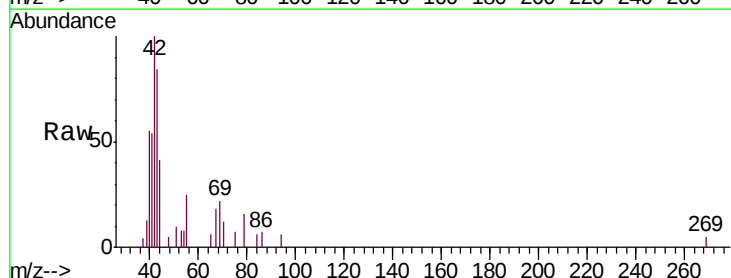
Ion Ratio Lower Upper

43 100

86 16.7 6.0 9.0#

42 125.2 7.5 11.3#

44 8.7 4.4 6.6#

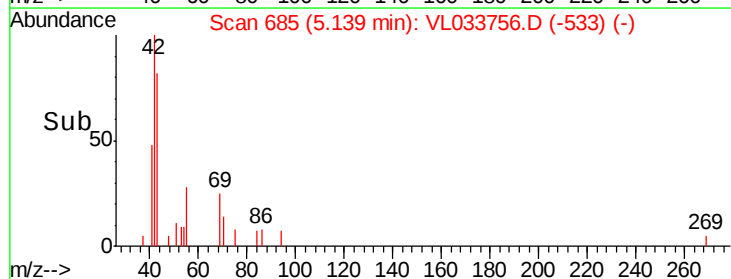
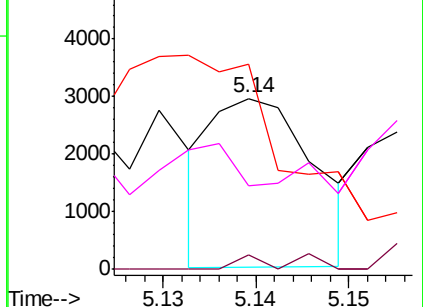


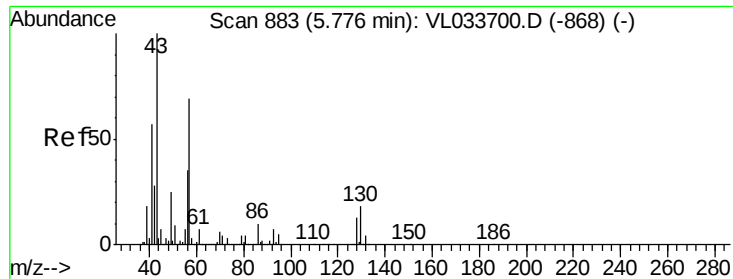
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

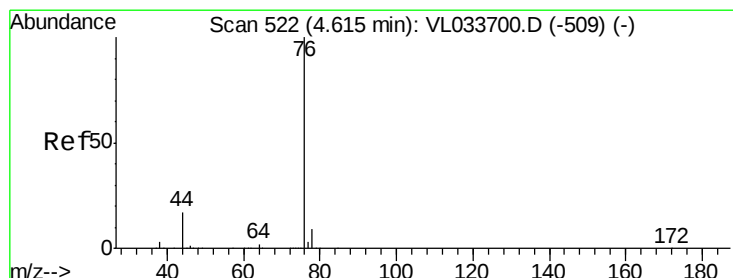
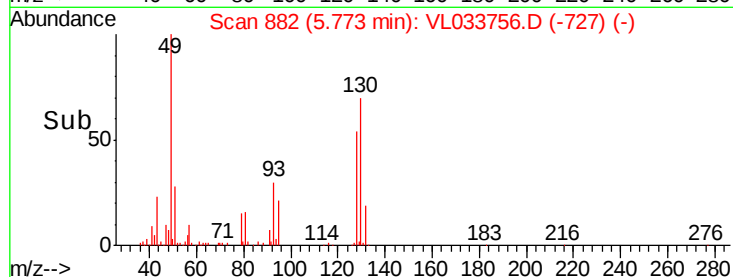
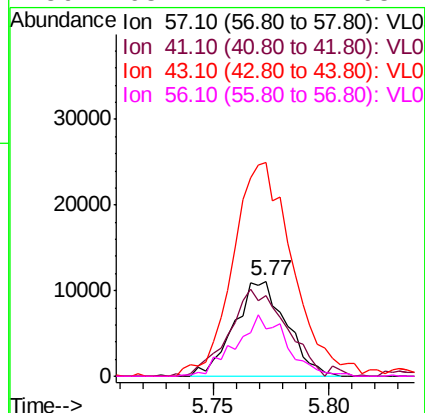
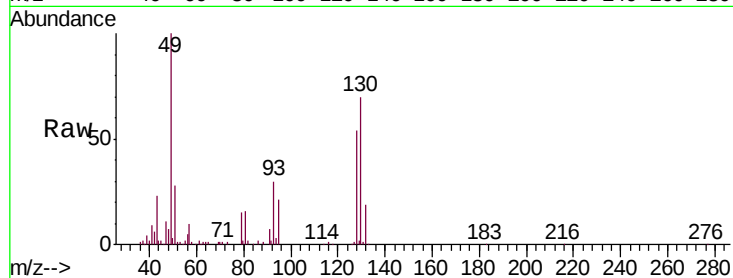




#26
Hexane
Concen: 0.166 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033756.D
Acq: 22 May 2019 22:45

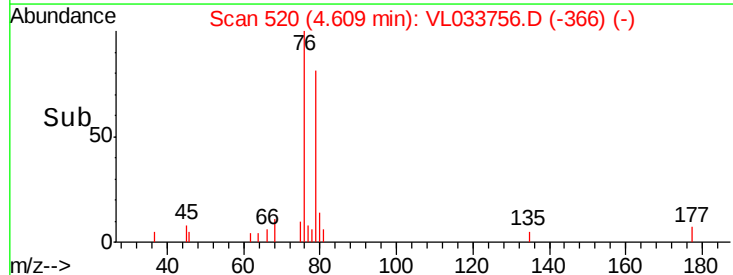
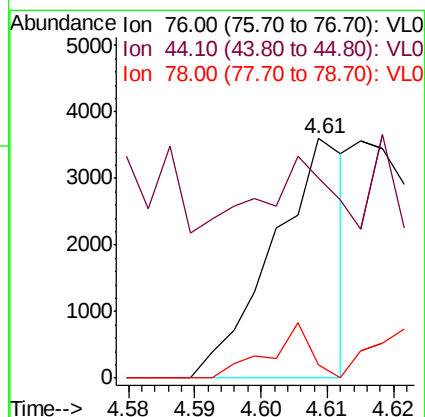
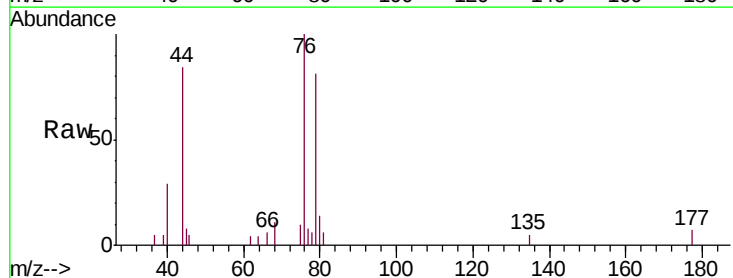
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-25DL

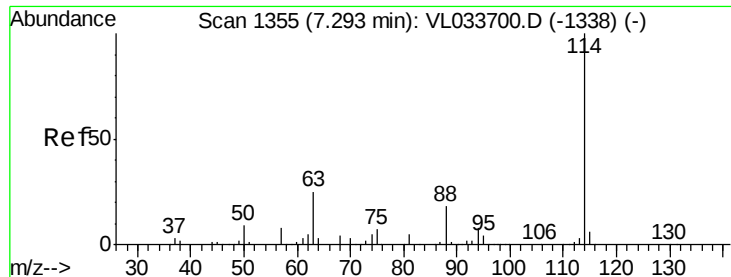
Tgt Ion: 57 Resp: 17233
Ion Ratio Lower Upper
57 100
41 103.2 69.8 104.6
43 270.7 181.8 272.6
56 63.7 42.1 63.1#



#27
Carbon Disulfide
Concen: 0.019 ppbv
RT: 4.61 min Scan# 520
Delta R.T. -0.01 min
Lab File: VL033756.D
Acq: 22 May 2019 22:45

Tgt Ion: 76 Resp: 2716
Ion Ratio Lower Upper
76 100
44 94.6 13.8 20.8#
78 44.0 7.4 11.0#

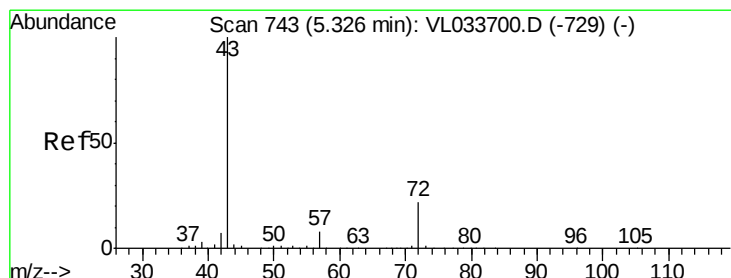
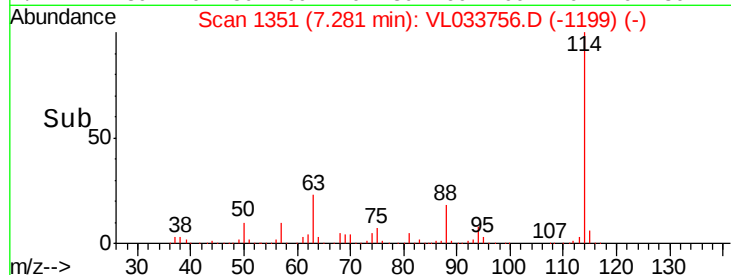
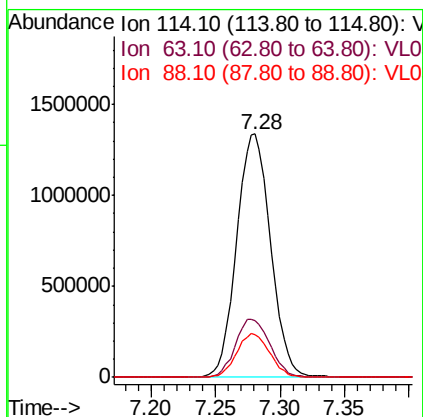
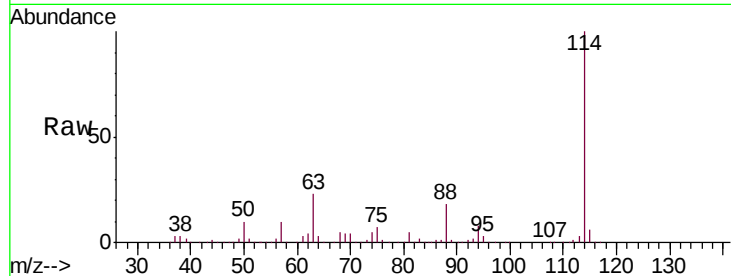




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

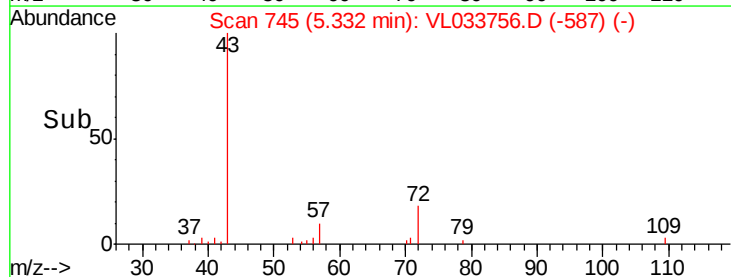
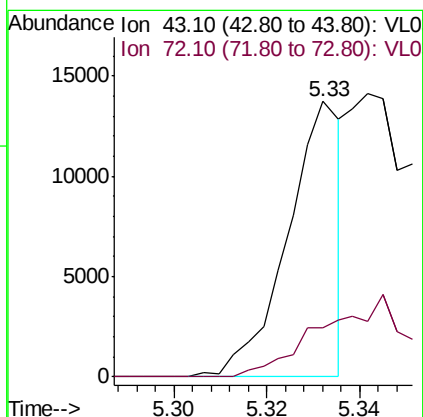
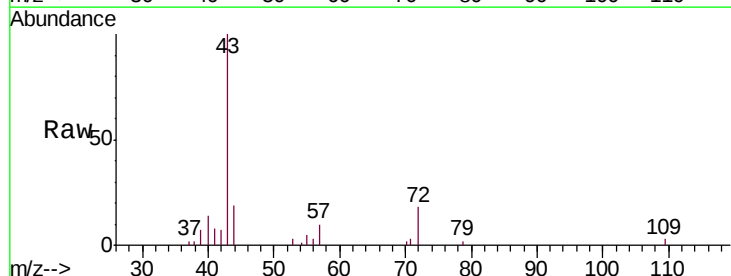
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-25DL

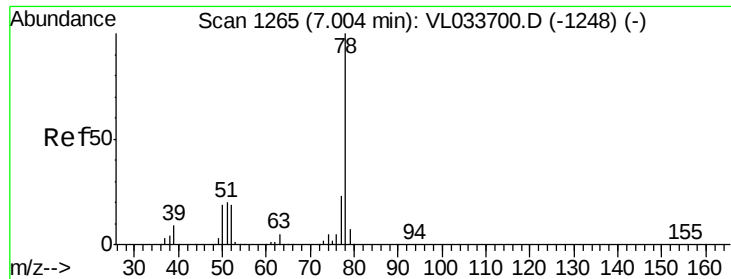
Tgt Ion:114 Resp: 2452683
 Ion Ratio Lower Upper
 114 100
 63 24.5 20.9 31.3
 88 17.7 14.3 21.5



#34
 2-Butanone
 Concen: 0.073 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

Tgt Ion: 43 Resp: 11055
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#





#36

Benzene

Concen: 0.090 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-25DL

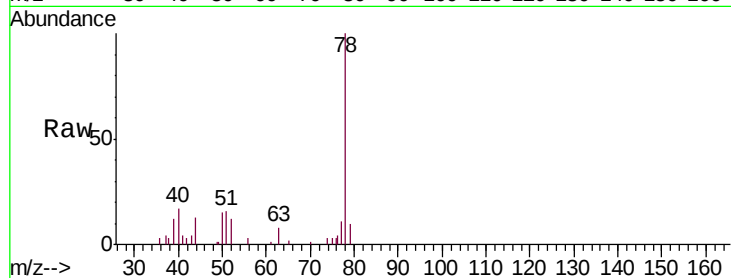
Tgt Ion: 78 Resp: 20133

Ion Ratio Lower Upper

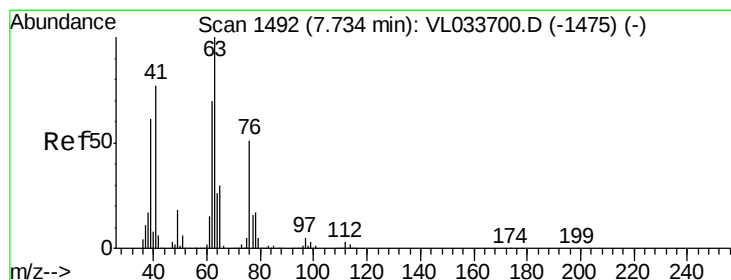
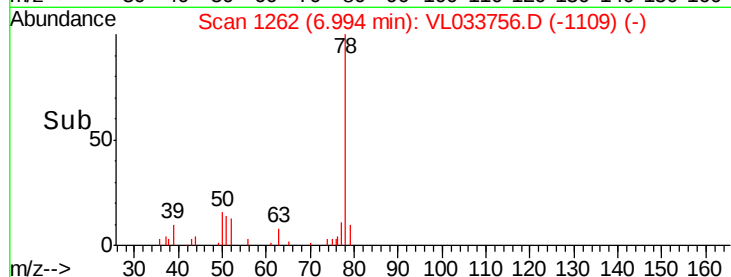
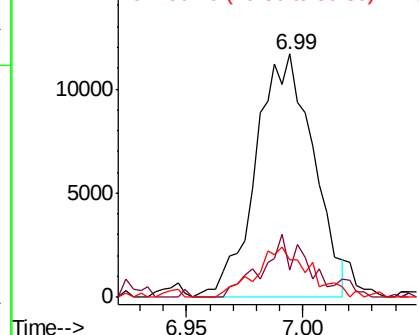
78 100

77 11.0 18.4 27.6#

50 15.5 15.5 23.3#



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: 7.156 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.46 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

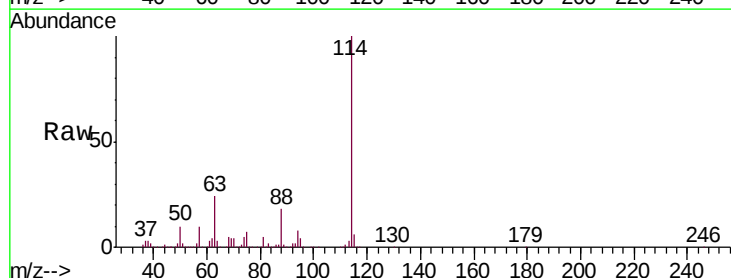
Tgt Ion: 63 Resp: 595219

Ion Ratio Lower Upper

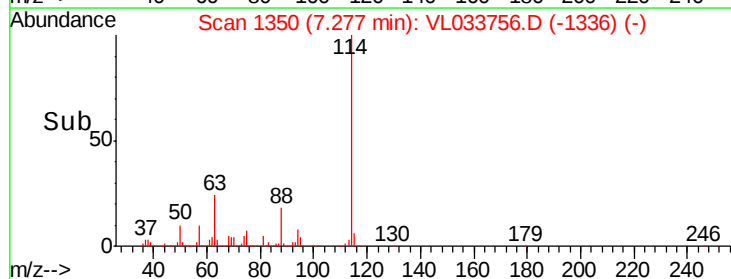
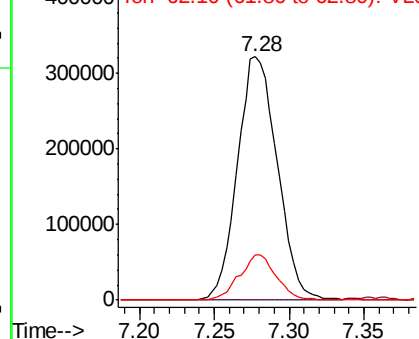
63 100

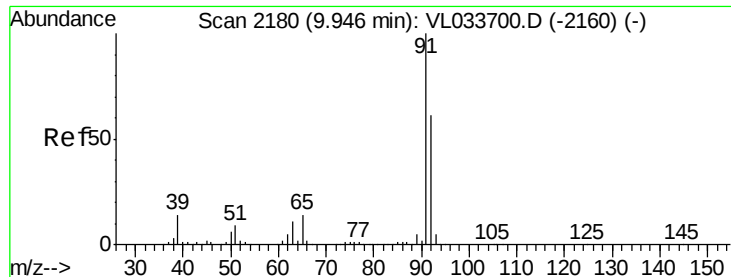
41 0.0 61.5 92.3#

62 18.3 56.2 84.4#



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





#53

Toluene

Concen: 0.778 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

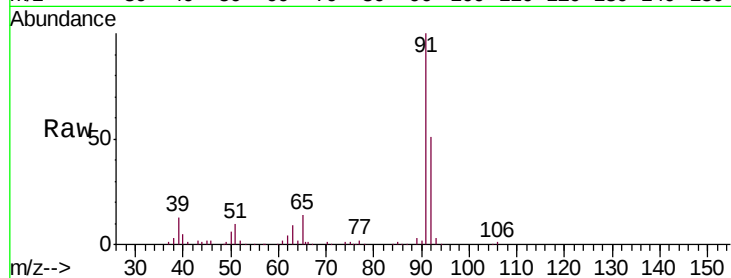
BPS1-SG-3002-25DL

Tgt Ion: 91 Resp: 187256

Ion Ratio Lower Upper

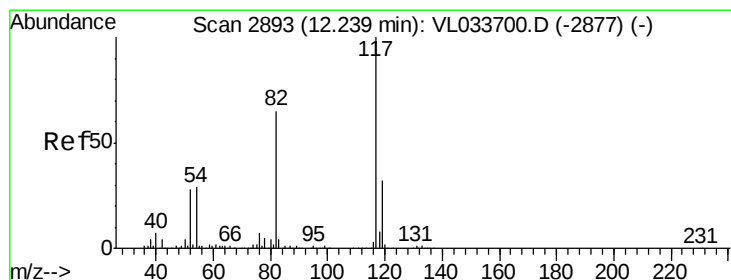
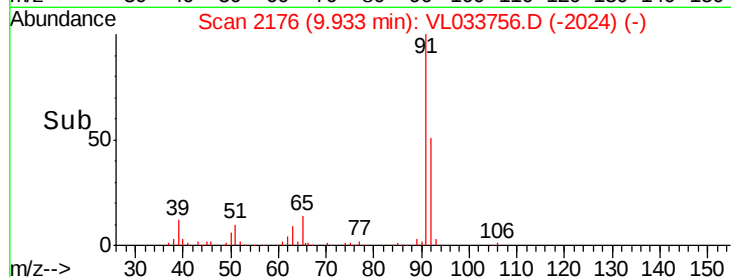
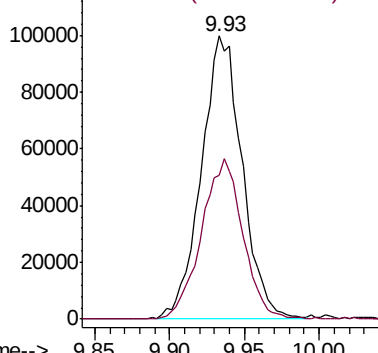
91 100

92 58.3 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

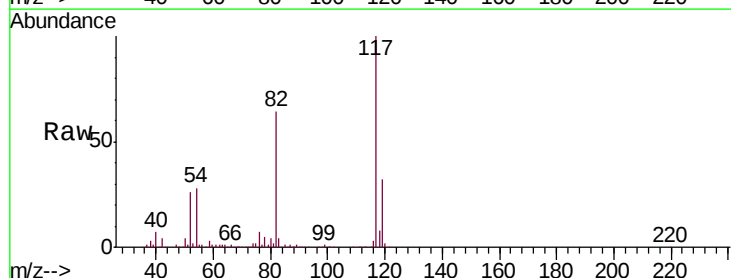
Tgt Ion: 117 Resp: 2402544

Ion Ratio Lower Upper

117 100

82 65.1 49.4 74.0

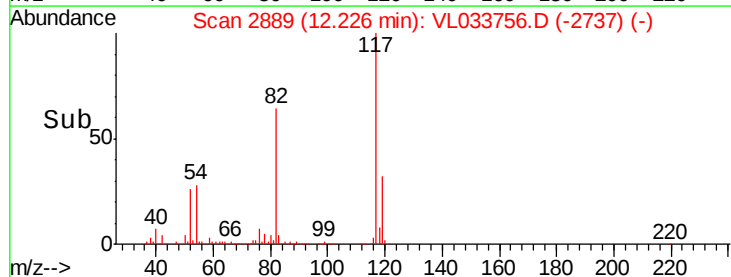
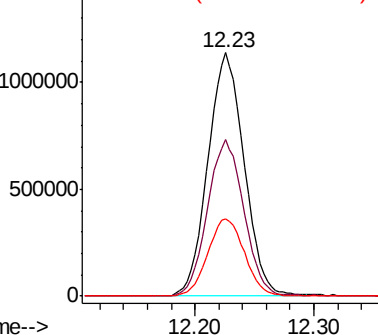
119 32.2 24.9 37.3

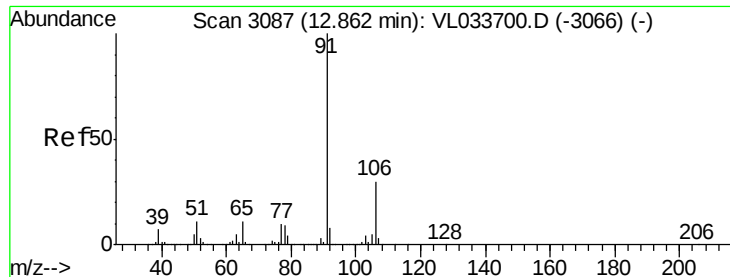


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.85 min Scan# 3083

Delta R.T. -0.01 min

Lab File: VL033756.D

Acq: 22 May 2019 22:45

Instrument :

MSVOA_L

ClientSampleId :

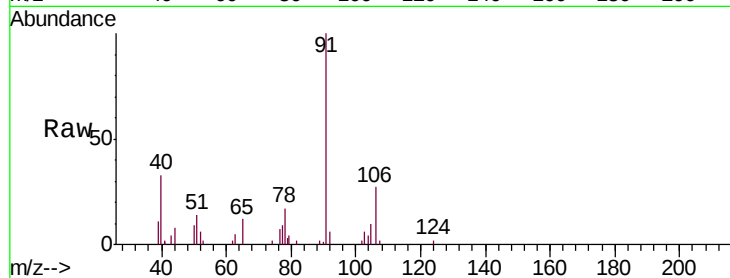
BPS1-SG-3002-25DL

Tgt Ion: 91 Resp: 13155

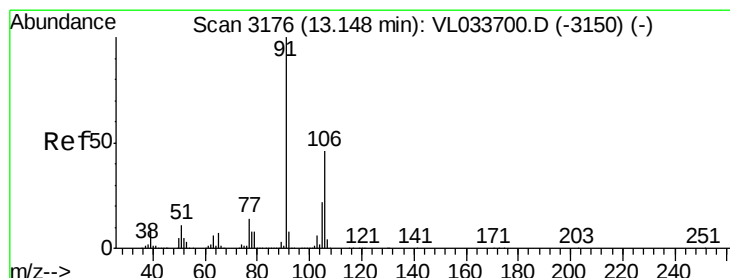
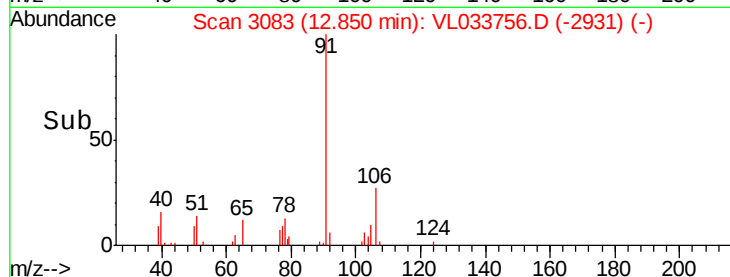
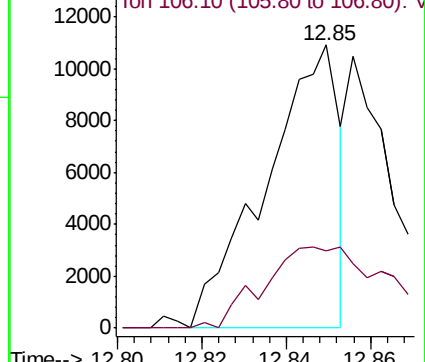
Ion Ratio Lower Upper

91 100

106 27.6 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0



#59

m/p-Xylene

Concen: 0.060 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.01 min

Lab File: VL033756.D

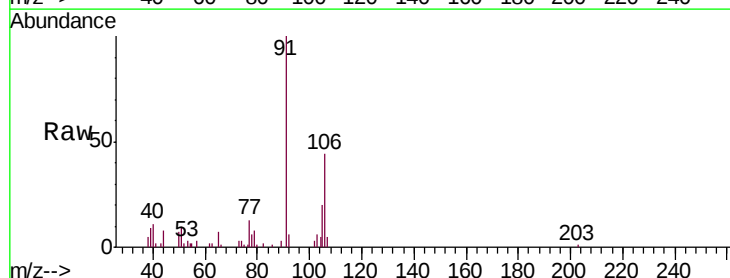
Acq: 22 May 2019 22:45

Tgt Ion: 91 Resp: 16826

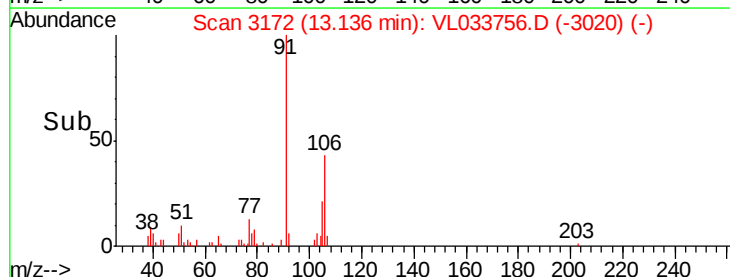
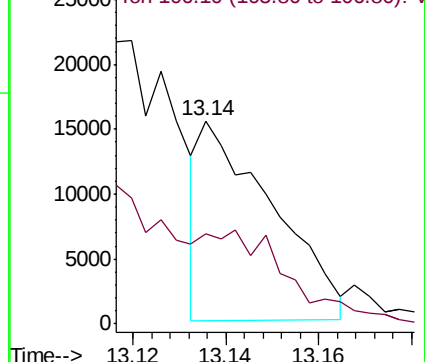
Ion Ratio Lower Upper

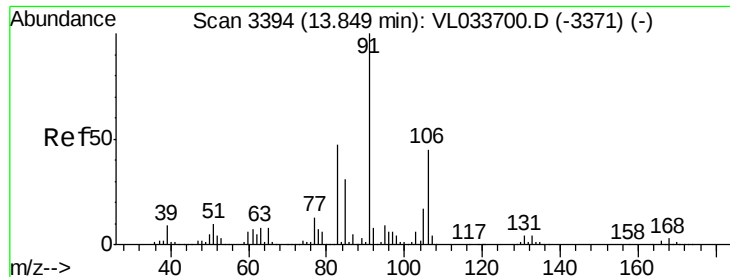
91 100

106 0.0 35.8 53.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

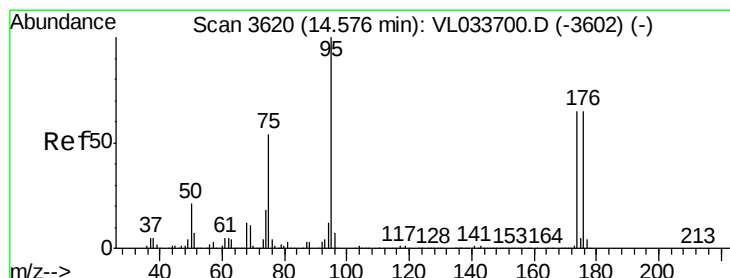
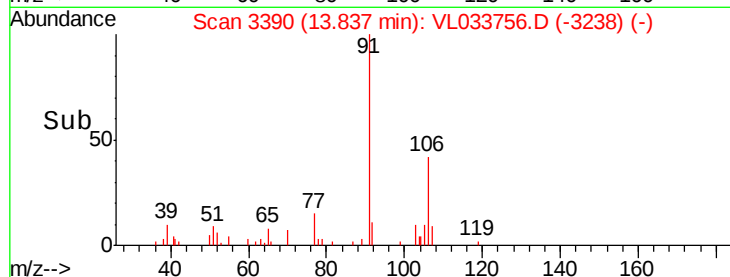
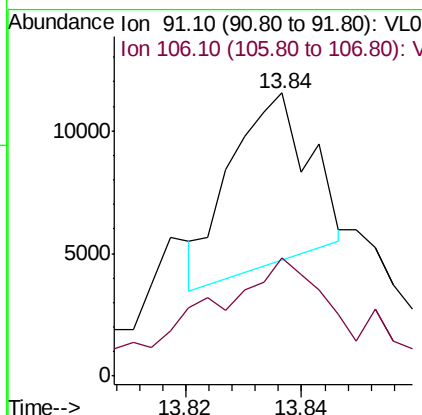
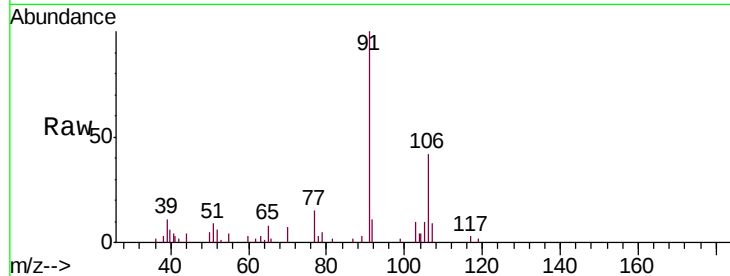




#60
o-Xylene
Concen: 0.024 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033756.D
Acq: 22 May 2019 22:45

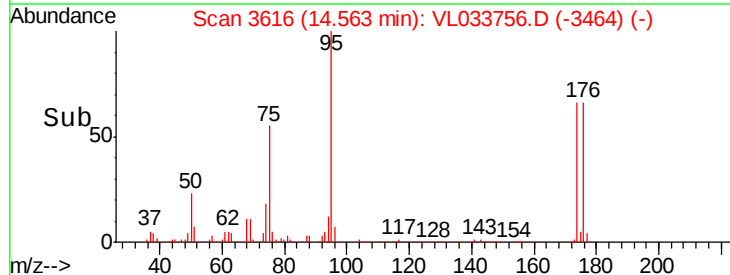
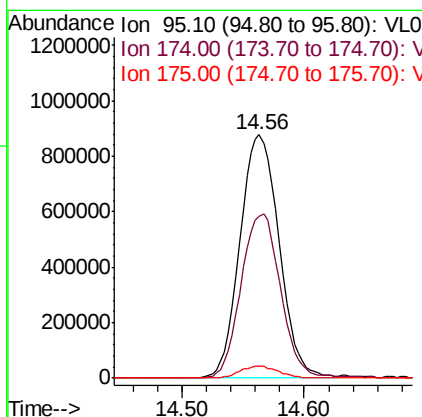
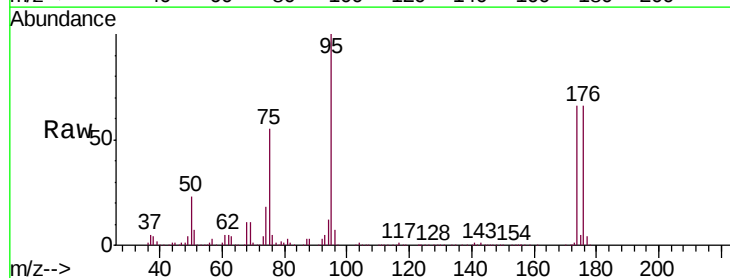
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-25DL

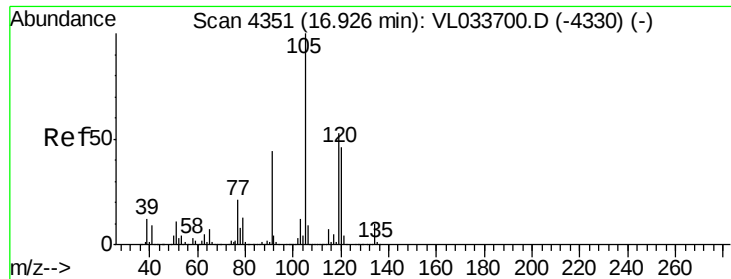
Tgt Ion: 91 Resp: 6598
Ion Ratio Lower Upper
91 100
106 136.4 21.6 64.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.982 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033756.D
Acq: 22 May 2019 22:45

Tgt Ion: 95 Resp: 1944244
Ion Ratio Lower Upper
95 100
174 68.8 53.9 80.9
175 4.9 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.029 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL033756.D
 Acq: 22 May 2019 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-25DL

Tgt Ion:	105	Resp:	9707
Ion	Ratio	Lower	Upper
105	100		
120	40.6	36.8	55.2
91	9.1	35.4	53.0#
77	0.0	16.8	25.2#

