

Data File : VL033763.D
Acq On : 23 May 2019 3:12
Operator : SY/AP
Sample : K2929-13DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3004-25DL

Quant Time: May 23 04:28:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	874838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2052405	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2055458	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1698704	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

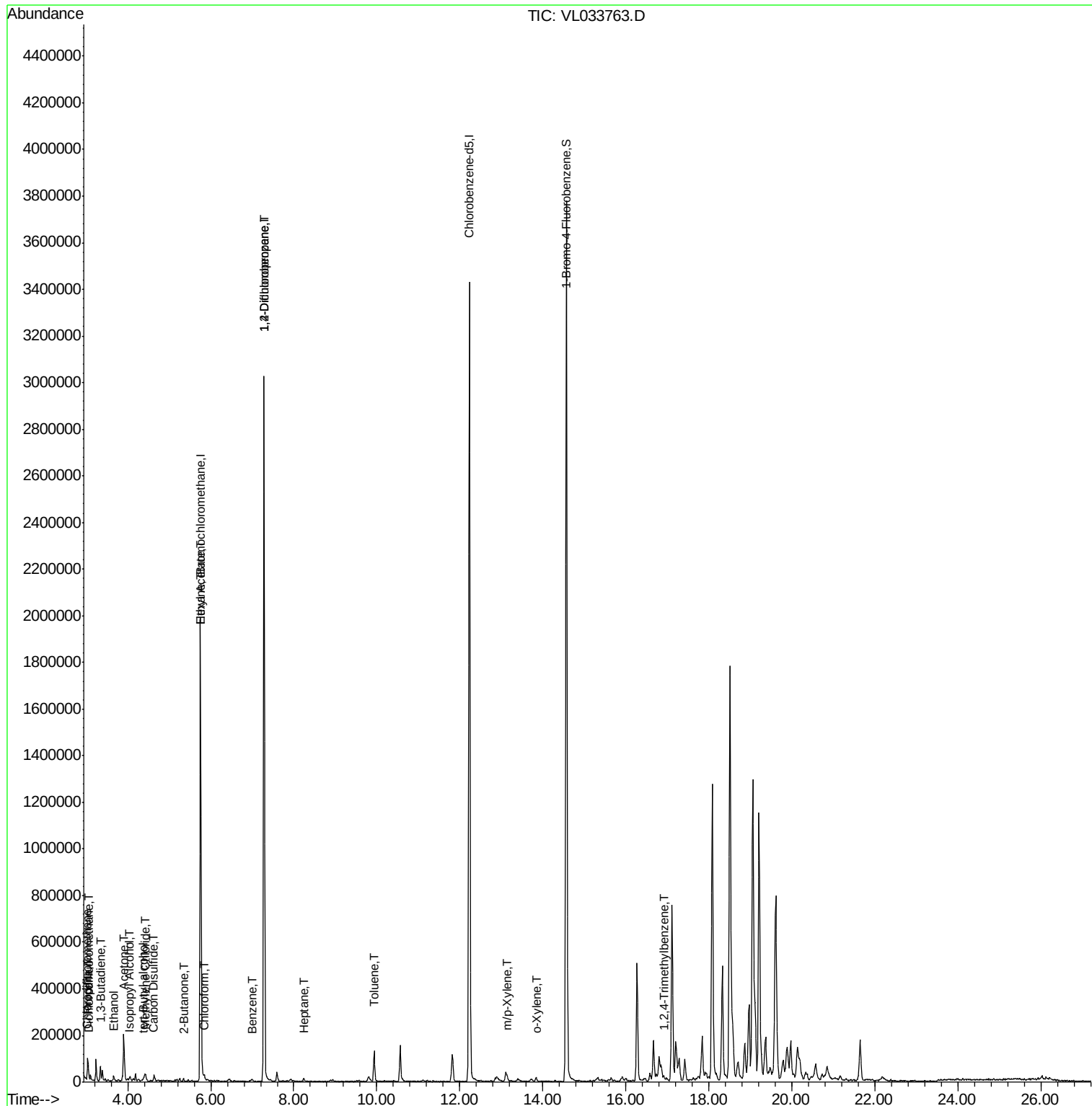
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	2745	0.015	ppbv	96
3) Chlorodifluoromethane	3.01	51	3964	0.040	ppbv #	82
9) Propene	3.04	41	32015	0.751	ppbv	92
10) Heptane	8.24	43	1407	0.012	ppbv #	26
13) Ethanol	3.66	45	16488	1.197	ppbv	90
15) Acetone	3.90	43	202145	1.665	ppbv	95
16) 1,3-Butadiene	3.34	39	19093	0.395	ppbv #	26
17) tert-Butyl alcohol	4.38	59	2556	0.026	ppbv #	61
19) Isopropyl Alcohol	4.04	45	9950	0.127	ppbv #	94
20) Methylene Chloride	4.41	84	6422	0.137	ppbv #	91
25) Ethyl Acetate	5.77	43	8370	0.039	ppbv #	74
26) Hexane	5.77	57	7128	0.078	ppbv #	74
27) Carbon Disulfide	4.62	76	3375	0.027	ppbv #	55
29) Chloroform	5.84	83	4413	0.026	ppbv	93
34) 2-Butanone	5.35	43	12118	0.095	ppbv	98
36) Benzene	6.99	78	4124	0.022	ppbv #	88
39) 1,2-Dichloropropane	7.28	63	537158	7.717	ppbv #	22
53) Toluene	9.94	91	91205	0.453	ppbv	98
59) m/p-Xylene	13.14	91	9693	0.041	ppbv #	31
60) o-Xylene	13.84	91	5947	0.025	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.91	105	7441	0.026	ppbv #	67

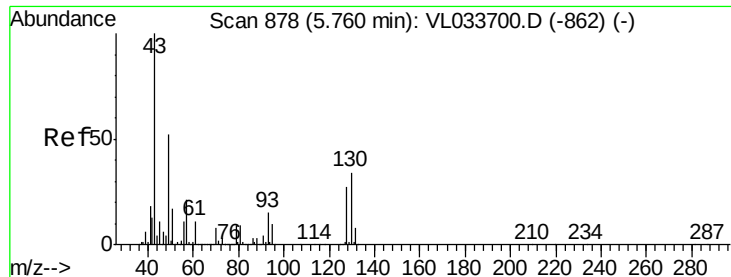
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033763.D

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MSVOA_L

ClientSampleId :

BPS1-SG-3004-25DL

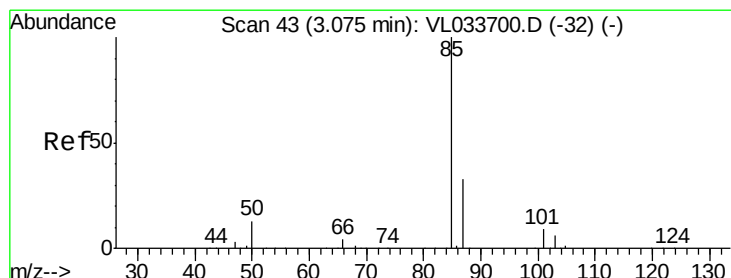
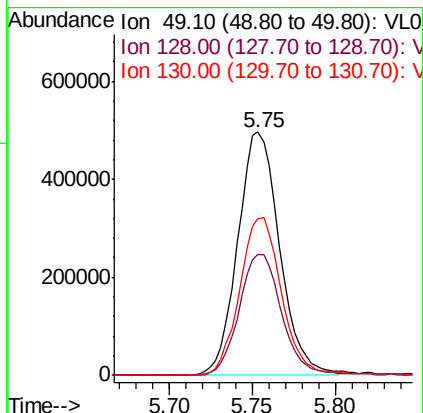
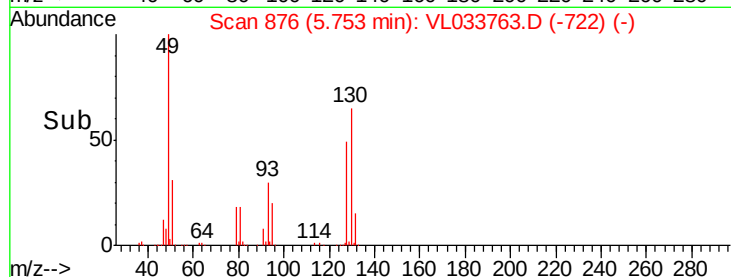
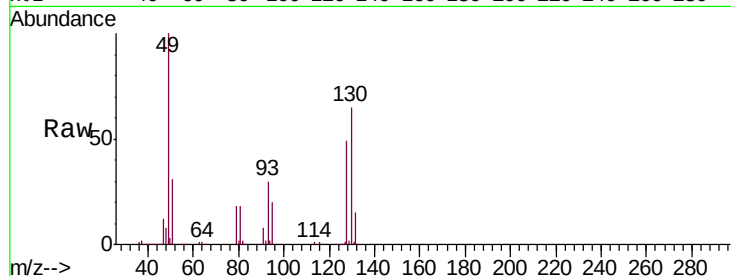
Tgt Ion: 49 Resp: 874838

Ion Ratio Lower Upper

49 100

128 50.9 25.2 75.6

130 65.6 32.5 97.5



#2

Dichlorodifluoromethane

Concen: 0.015 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033763.D

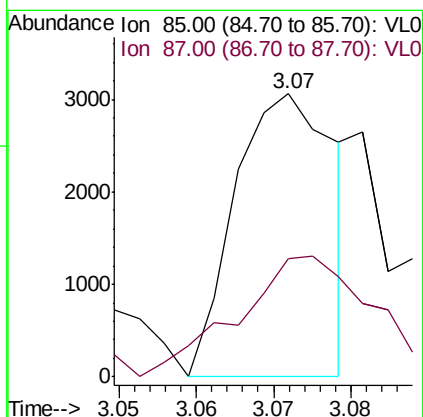
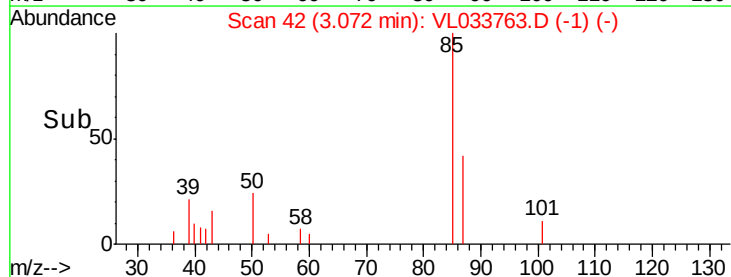
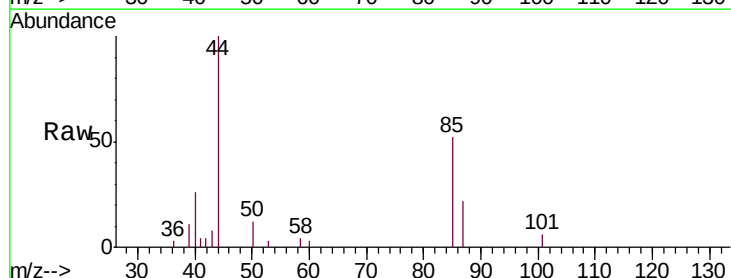
Acq: 23 May 2019 3:12

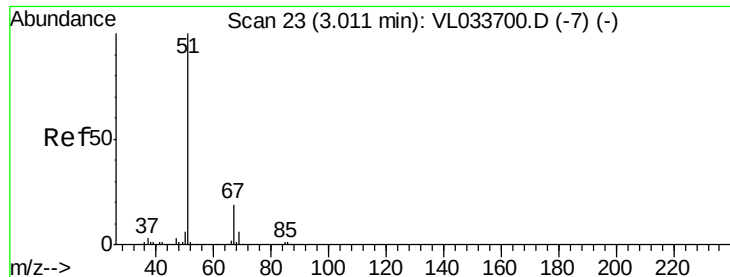
Tgt Ion: 85 Resp: 2745

Ion Ratio Lower Upper

85 100

87 30.5 26.3 39.5





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033763.D

Acq: 23 May 2019 3:12

Instrument :

MSVOA_L

ClientSampleId :

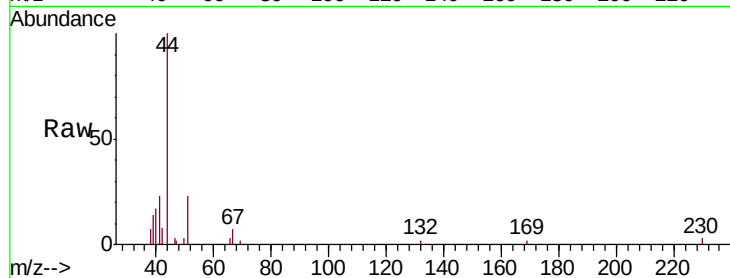
BPS1-SG-3004-25DL

Tgt Ion: 51 Resp: 3964

Ion Ratio Lower Upper

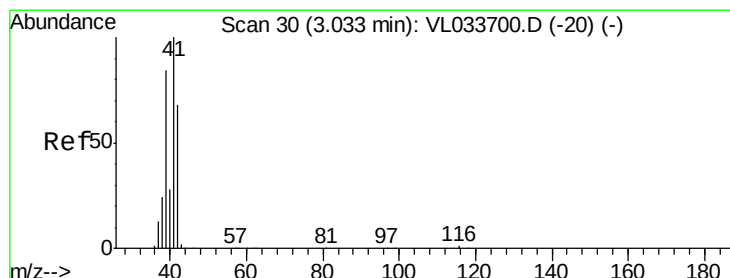
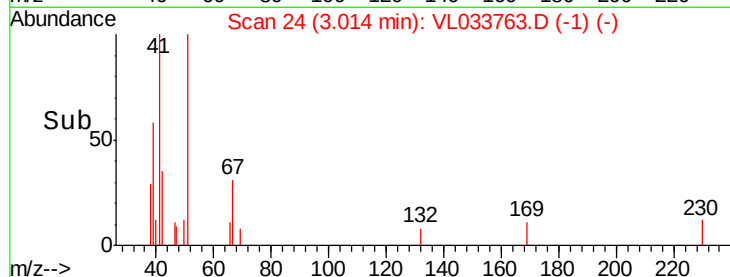
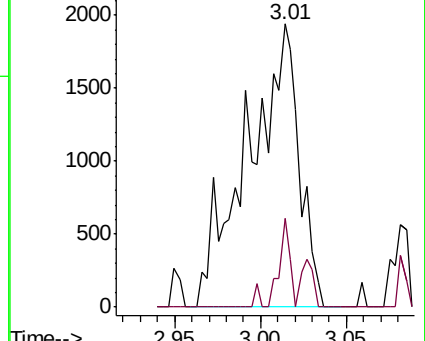
51 100

67 11.2 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.751 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033763.D

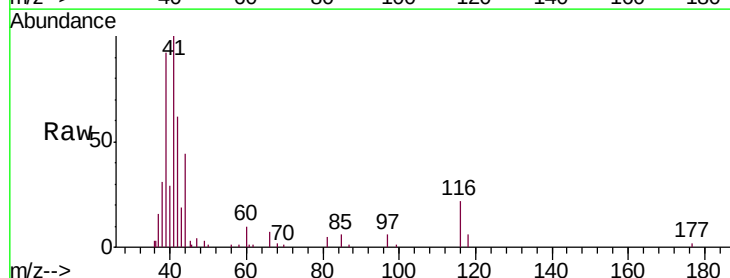
Acq: 23 May 2019 3:12

Tgt Ion: 41 Resp: 32015

Ion Ratio Lower Upper

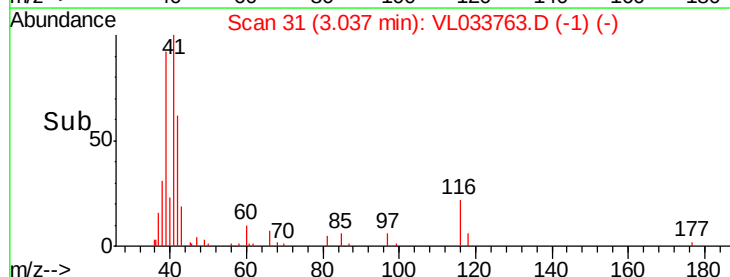
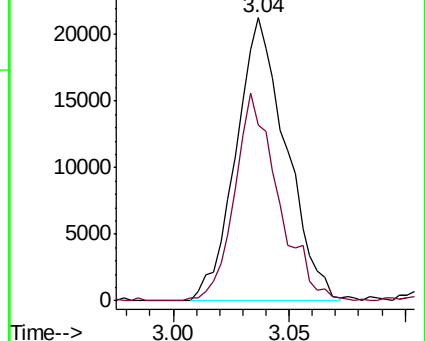
41 100

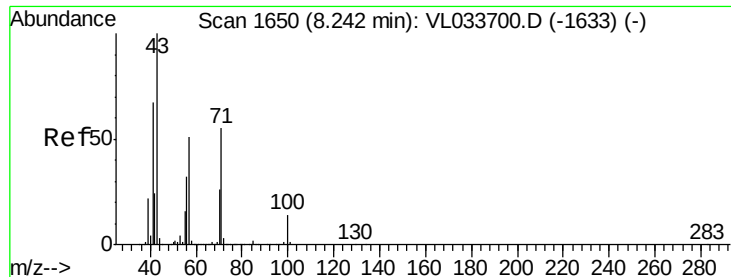
42 63.8 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

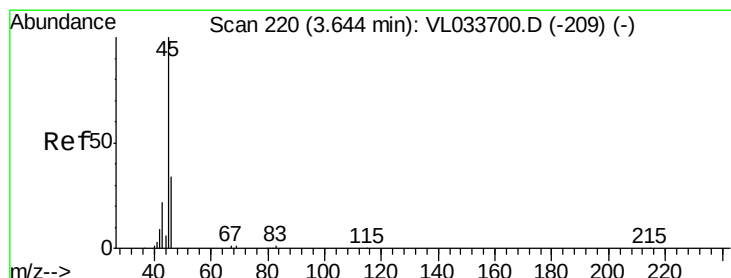
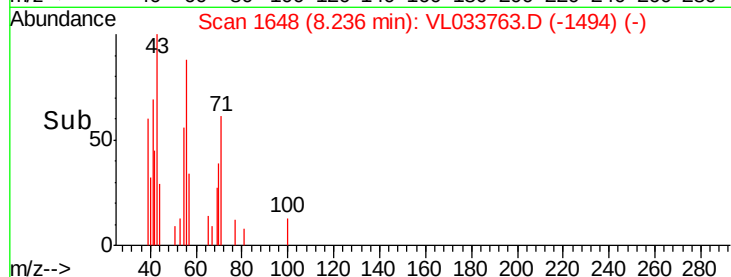
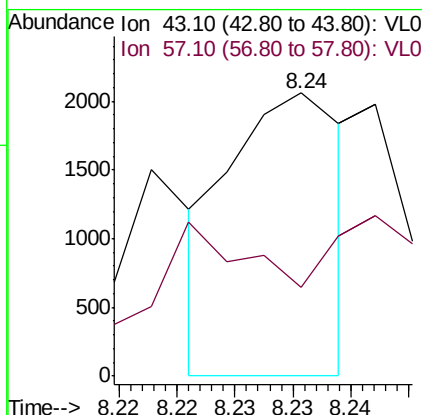
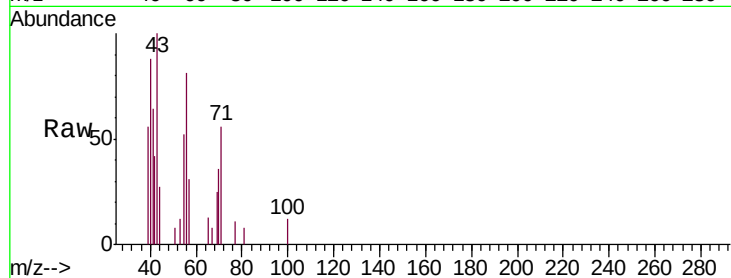




#10
Heptane
Concen: 0.012 ppbv
RT: 8.24 min Scan# 1648
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

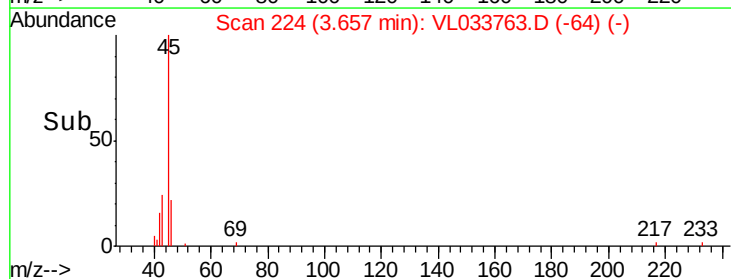
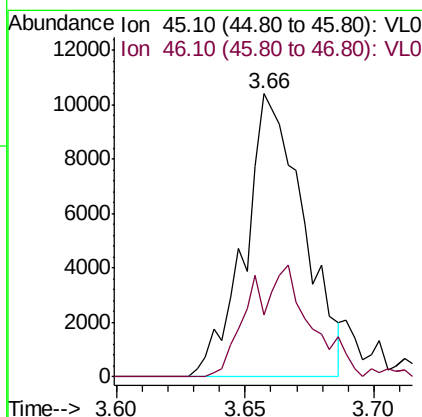
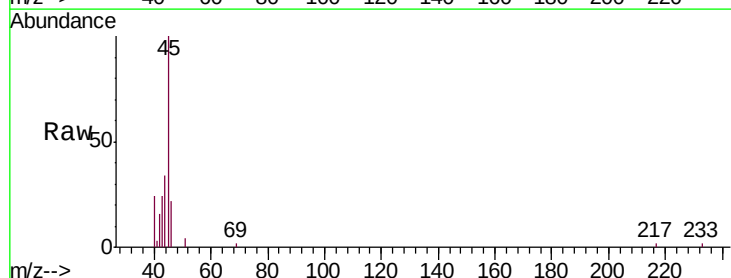
Instrument :
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BPS1-SG-3004-25DL

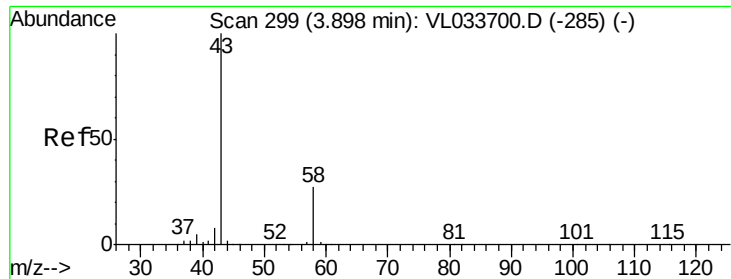
Tgt Ion: 43 Resp: 1407
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0#



#13
Ethanol
Concen: 1.197 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

Tgt Ion: 45 Resp: 16488
Ion Ratio Lower Upper
45 100
46 42.6 14.8 59.0





#15

Acetone

Concen: 1.665 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033763.D

Acq: 23 May 2019 3:12

Instrument :

MSVOA_L

ClientSampleId :

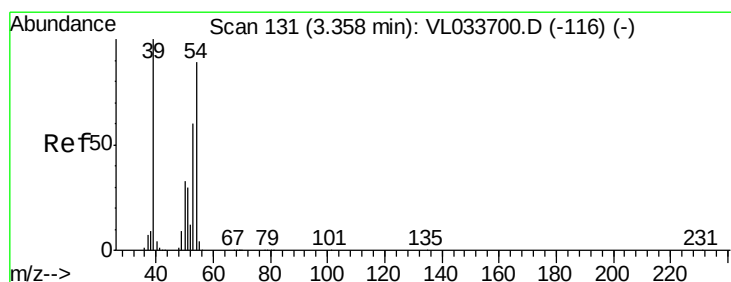
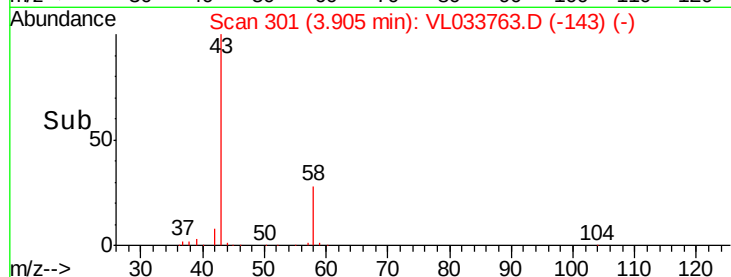
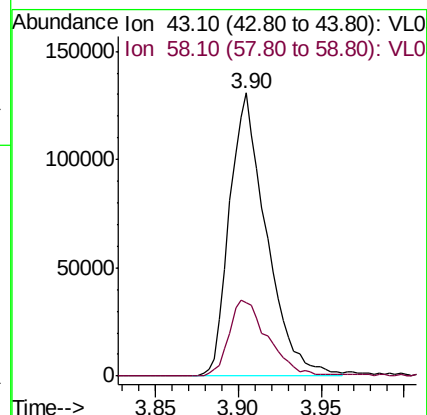
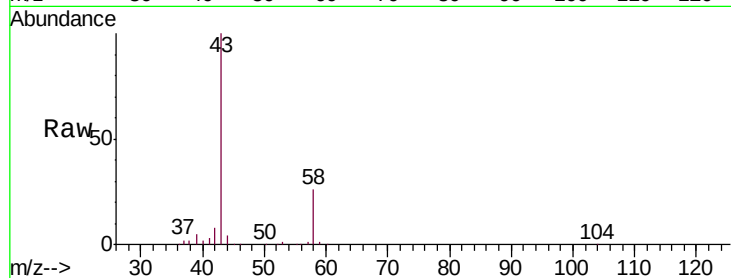
BPS1-SG-3004-25DL

Tgt Ion: 43 Resp: 202145

Ion Ratio Lower Upper

43 100

58 29.0 21.3 31.9



#16

1,3-Butadiene

Concen: 0.395 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033763.D

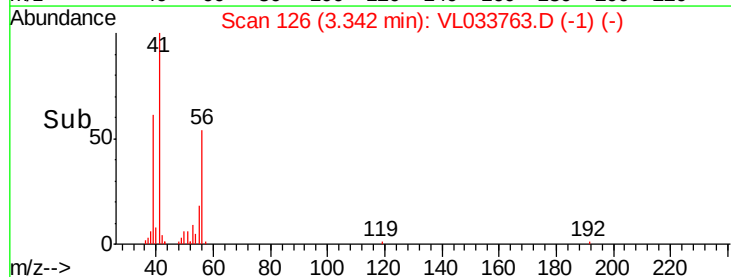
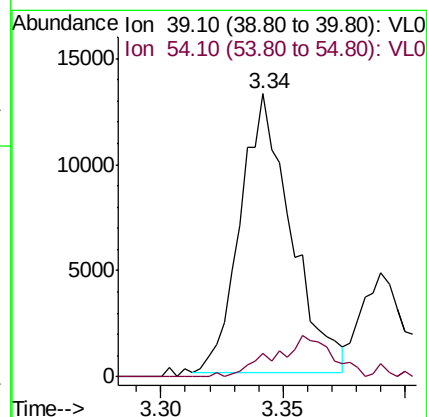
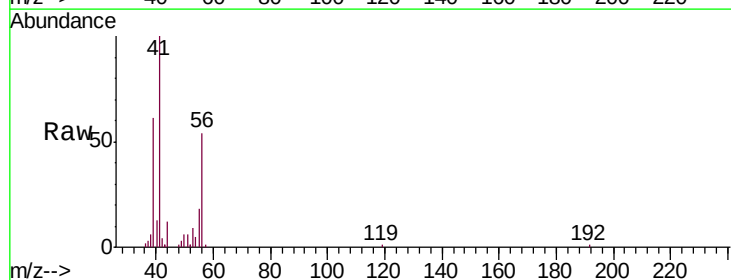
Acq: 23 May 2019 3:12

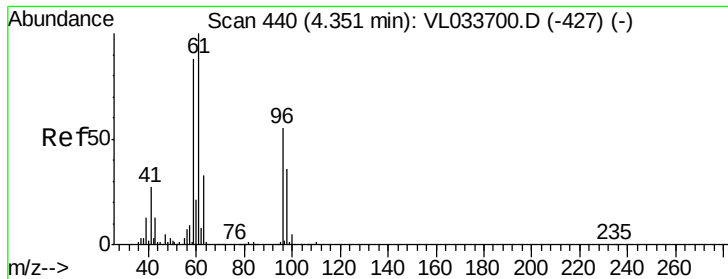
Tgt Ion: 39 Resp: 19093

Ion Ratio Lower Upper

39 100

54 17.8 69.0 103.6#





#17

tert-Butyl alcohol

Concen: 0.026 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.03 min

Lab File: VL033763.D

Acq: 23 May 2019 3:12

Instrument :

MSVOA_L

ClientSampleId :

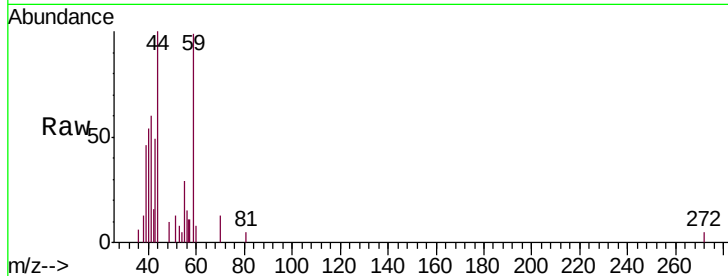
BPS1-SG-3004-25DL

Tgt Ion: 59 Resp: 2556

Ion Ratio Lower Upper

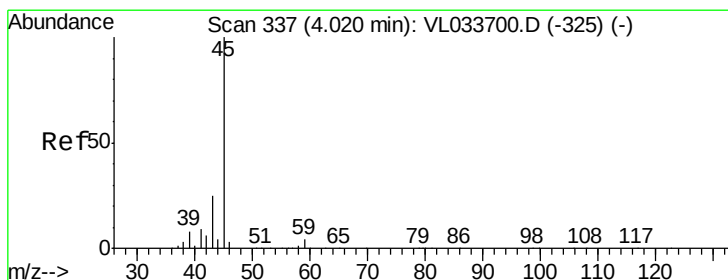
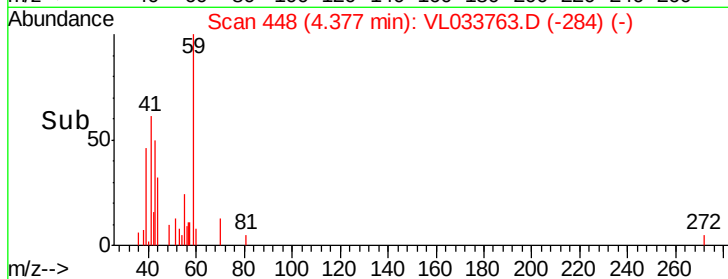
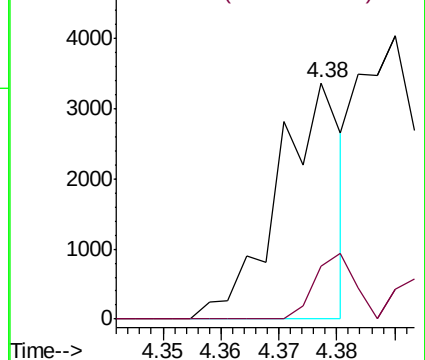
59 100

57 25.2 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.127 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033763.D

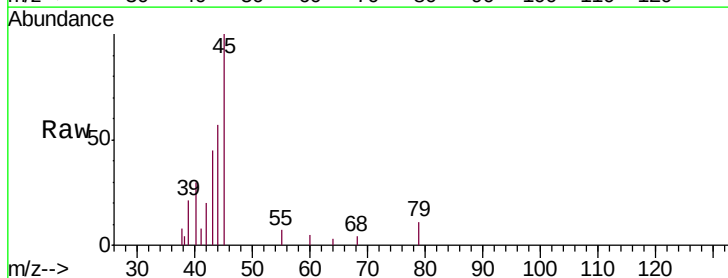
Acq: 23 May 2019 3:12

Tgt Ion: 45 Resp: 9950

Ion Ratio Lower Upper

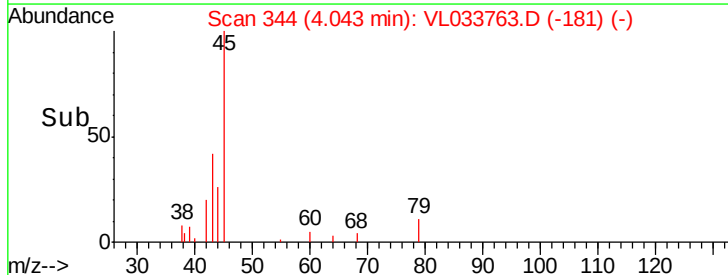
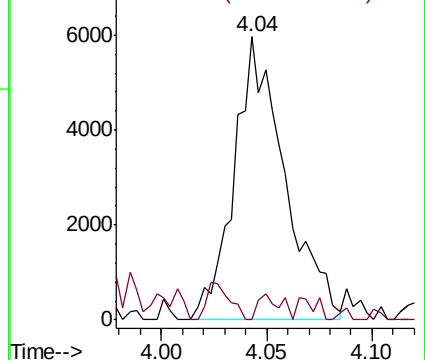
45 100

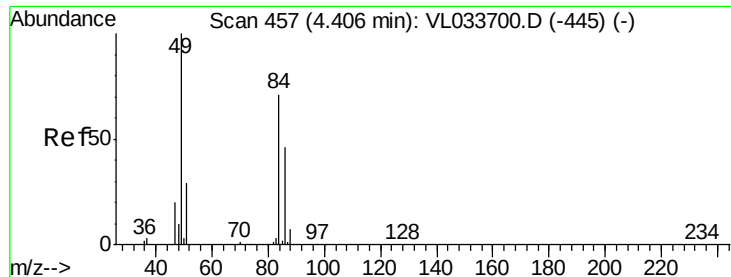
58 0.0 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 0.137 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033763.D

Acq: 23 May 2019 3:12

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3004-25DL

Tgt Ion: 84 Resp: 6422

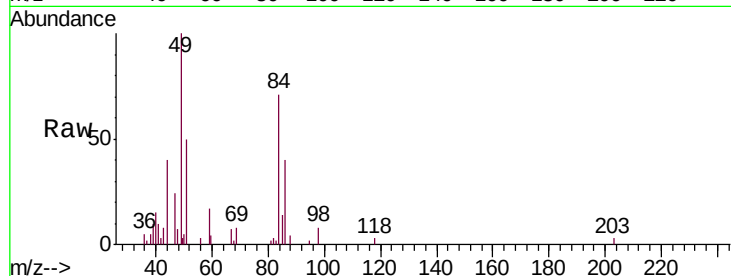
Ion Ratio Lower Upper

84 100

49 138.1 112.8 169.2

51 60.6 33.4 50.0#

86 55.8 51.7 77.5

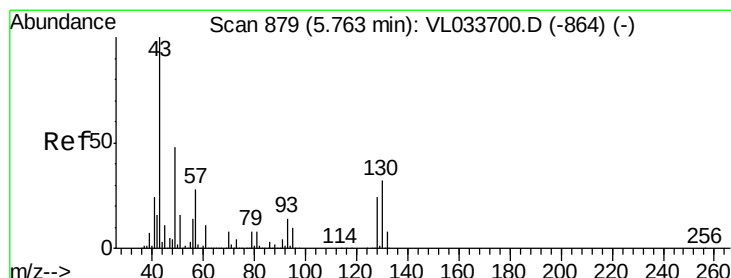
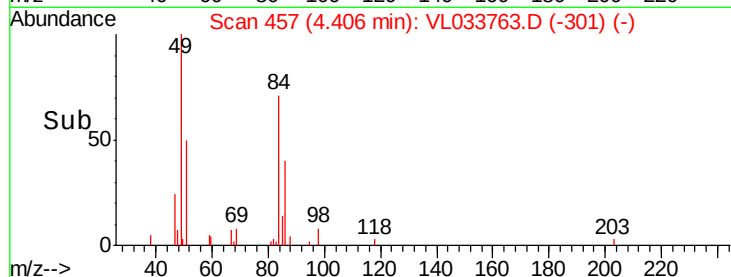
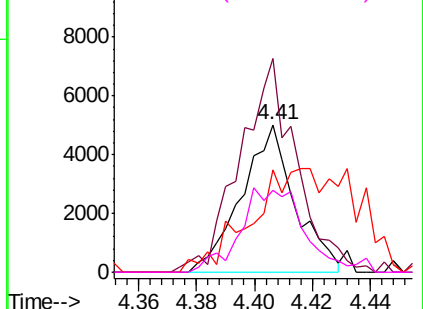


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.039 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033763.D

Acq: 23 May 2019 3:12

Tgt Ion: 43 Resp: 8370

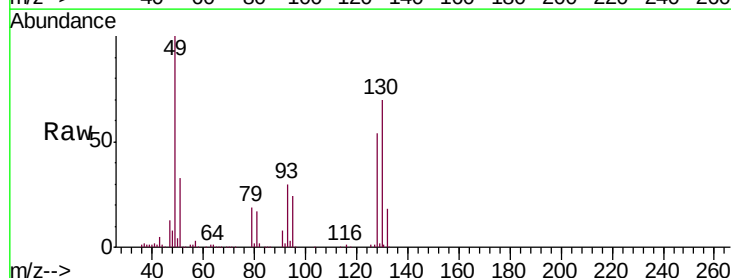
Ion Ratio Lower Upper

43 100

45 0.0 7.9 11.9#

61 19.8 7.7 11.5#

70 0.0 5.8 8.6#

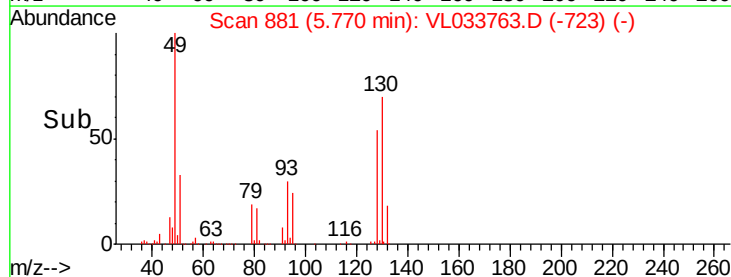
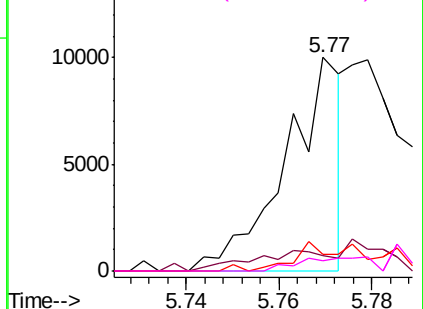


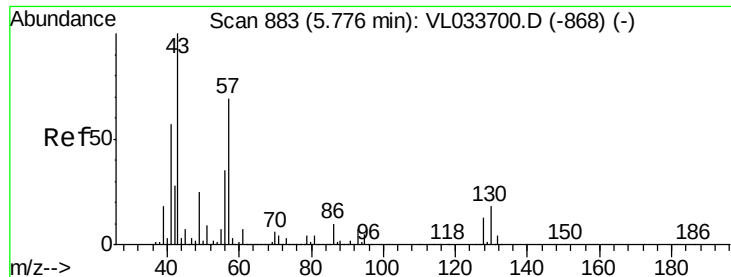
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

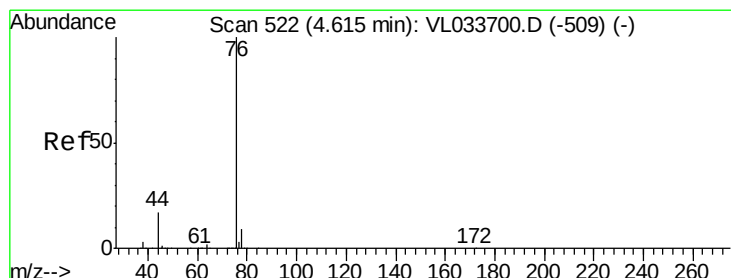
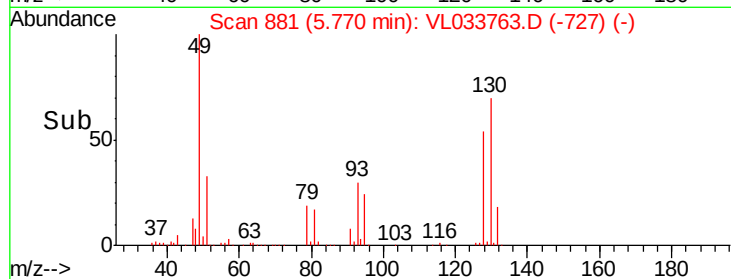
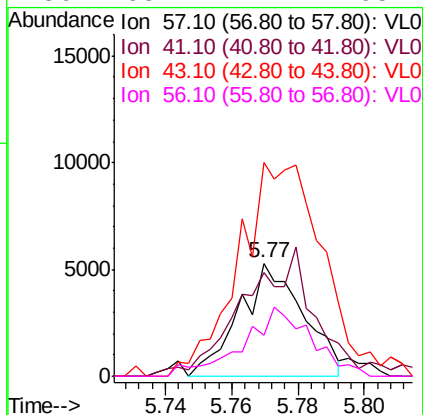
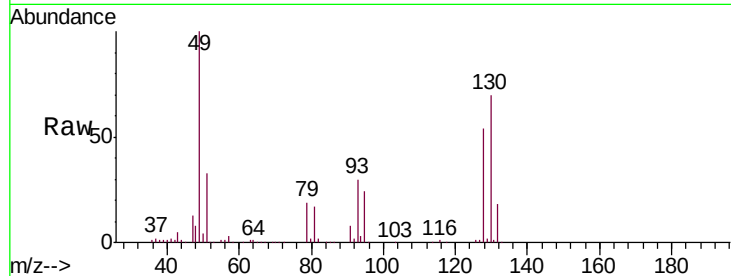




#26
Hexane
Concen: 0.078 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

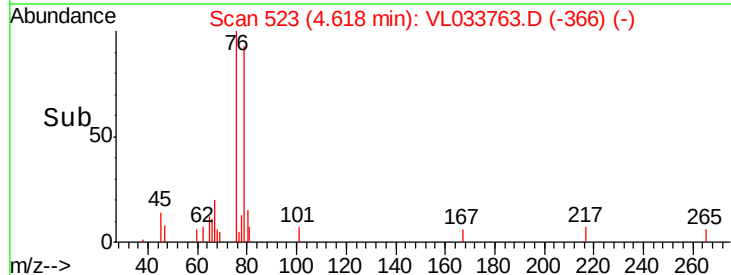
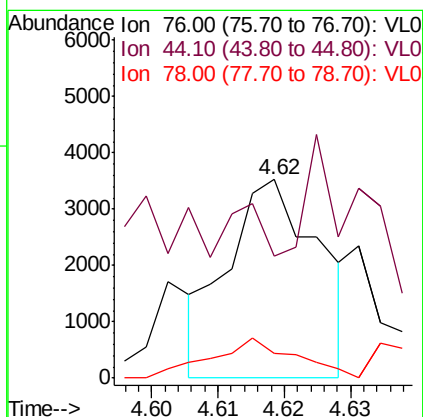
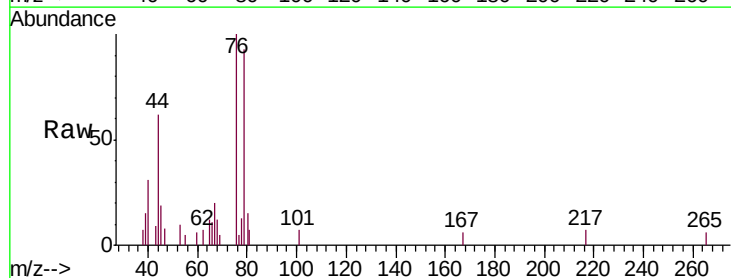
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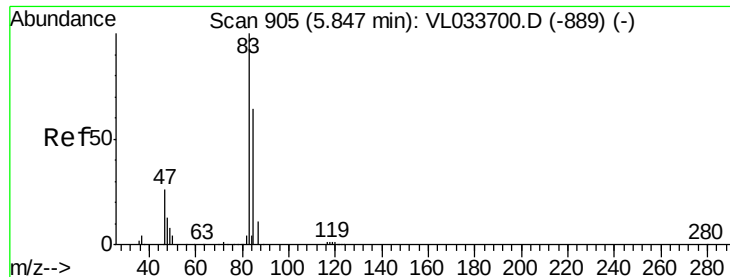
Tgt Ion: 57 Resp: 7128
Ion Ratio Lower Upper
57 100
41 131.6 69.8 104.6#
43 259.4 181.8 272.6
56 65.2 42.1 63.1#



#27
Carbon Disulfide
Concen: 0.027 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

Tgt Ion: 76 Resp: 3375
Ion Ratio Lower Upper
76 100
44 0.0 13.8 20.8#
78 29.3 7.4 11.0#

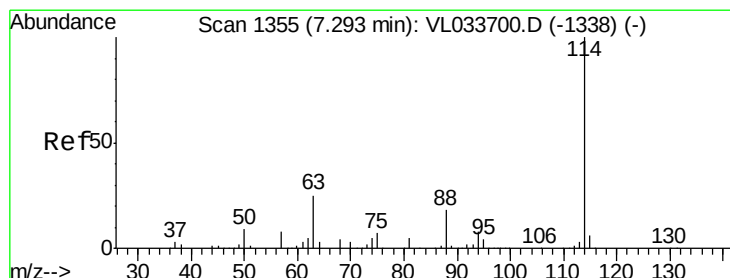
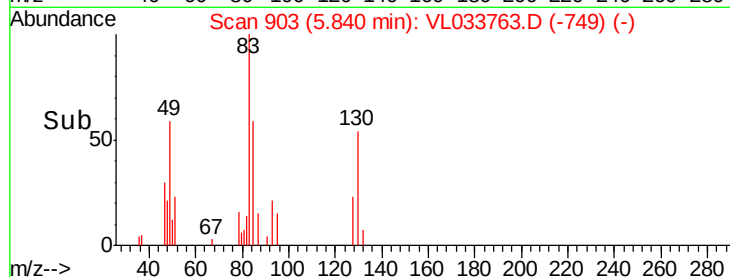
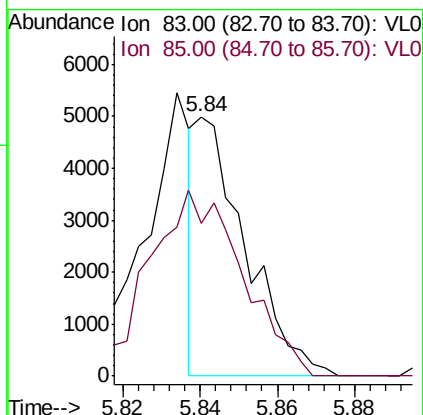
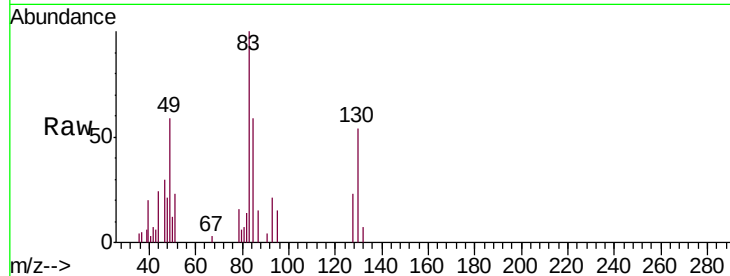




#29
Chloroform
Concen: 0.026 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

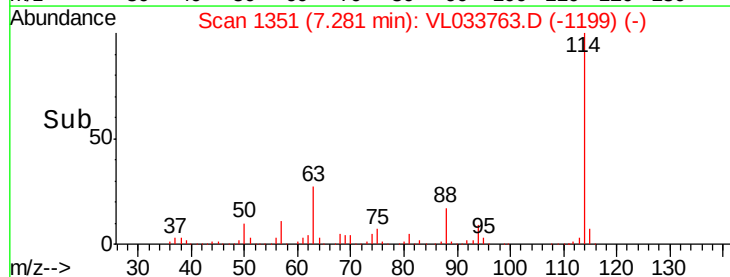
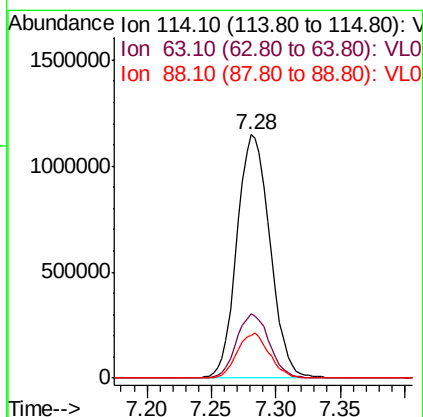
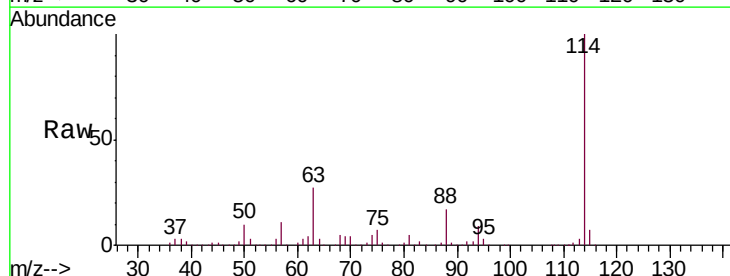
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3004-25DL

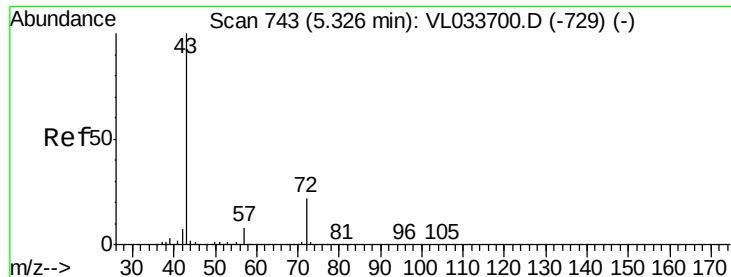
Tgt Ion: 83 Resp: 4413
Ion Ratio Lower Upper
83 100
85 59.0 51.5 77.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

Tgt Ion: 114 Resp: 2052405
Ion Ratio Lower Upper
114 100
63 26.3 20.9 31.3
88 18.0 14.3 21.5

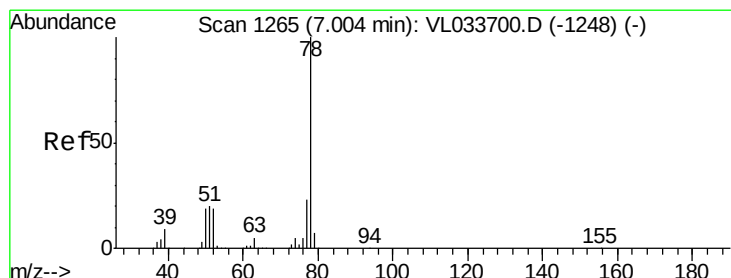
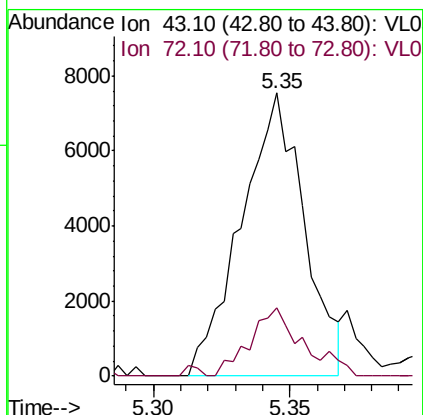
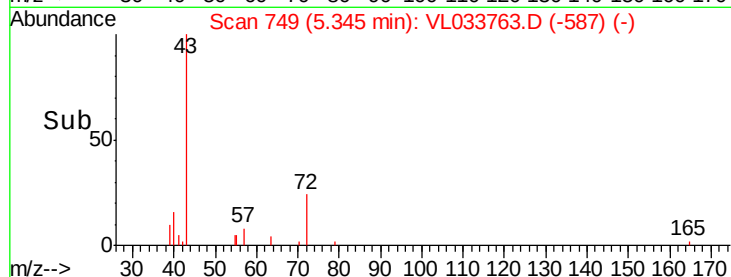
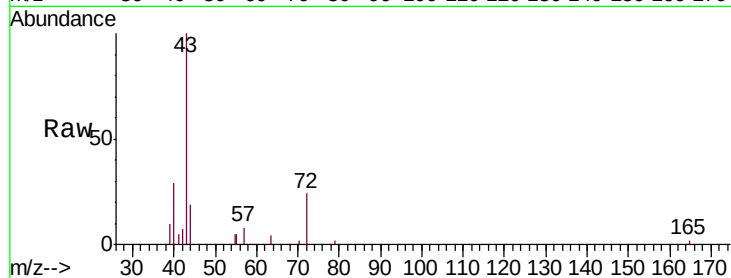




#34
 2-Butanone
 Concen: 0.095 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.02 min
 Lab File: VL033763.D
 Acq: 23 May 2019 3:12

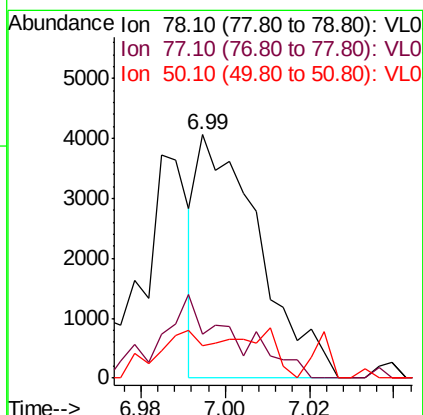
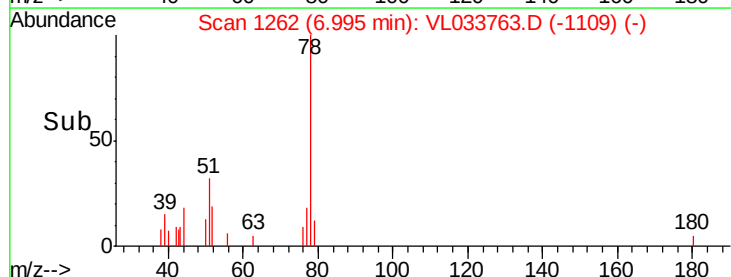
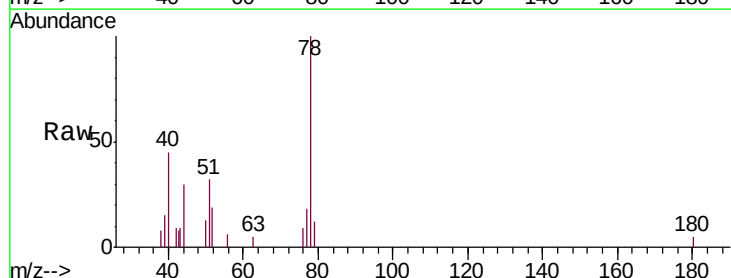
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3004-25DL

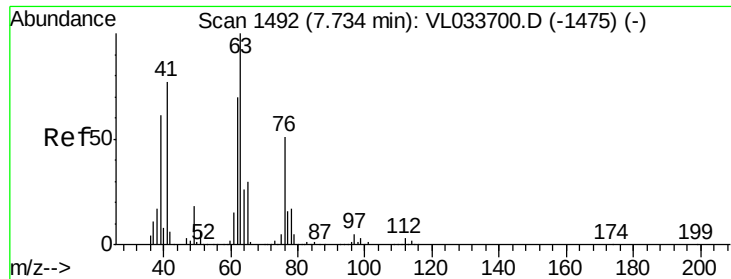
Tgt Ion: 43 Resp: 12118
 Ion Ratio Lower Upper
 43 100
 72 21.2 17.8 26.6



#36
 Benzene
 Concen: 0.022 ppbv
 RT: 6.99 min Scan# 1262
 Delta R.T. -0.01 min
 Lab File: VL033763.D
 Acq: 23 May 2019 3:12

Tgt Ion: 78 Resp: 4124
 Ion Ratio Lower Upper
 78 100
 77 17.8 18.4 27.6#
 50 13.3 15.5 23.3#

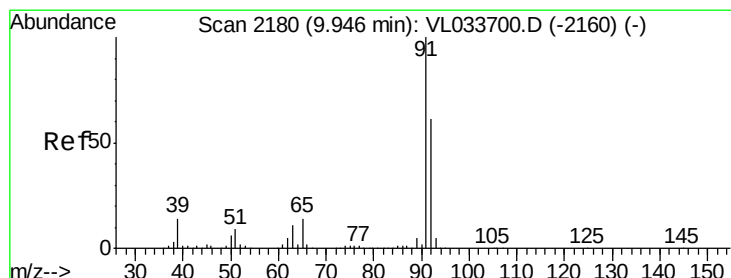
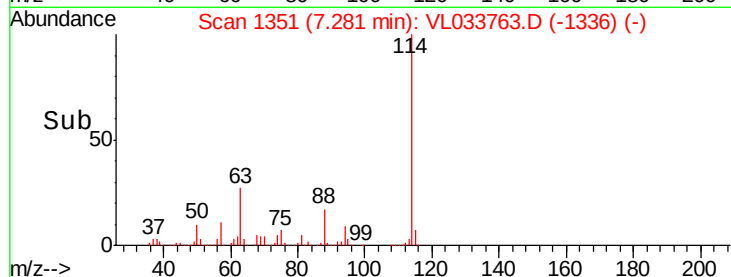
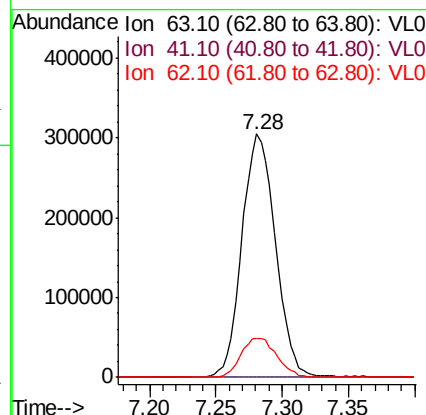
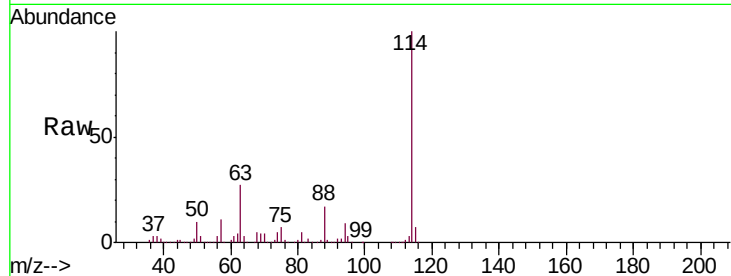




#39
 1,2-Dichloropropane
 Concen: 7.717 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.45 min
 Lab File: VL033763.D
 Acq: 23 May 2019 3:12

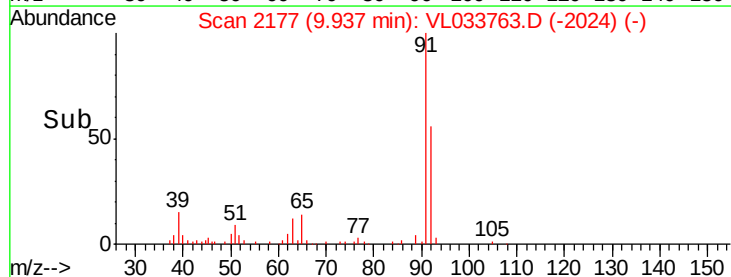
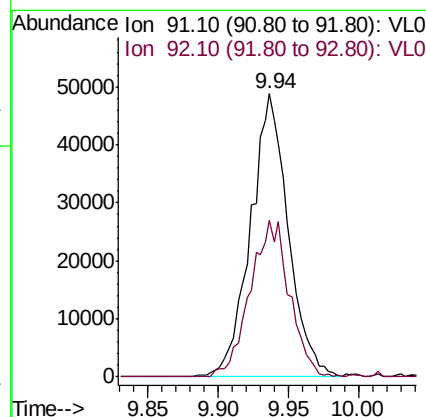
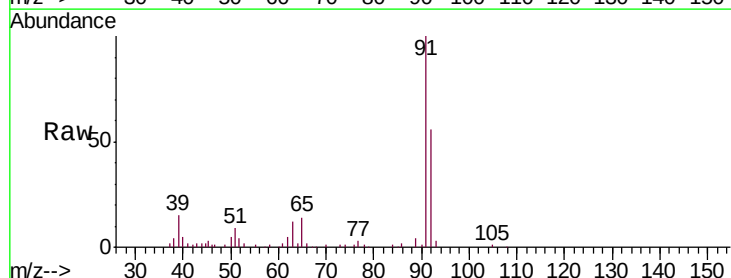
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3004-25DL

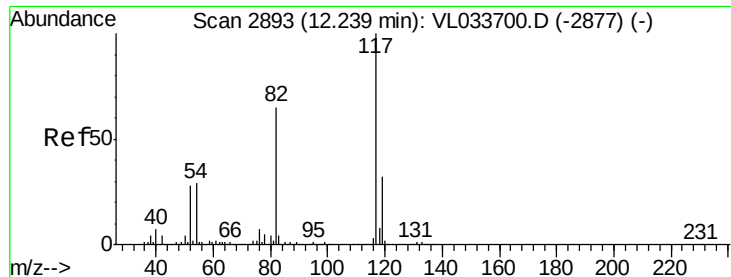
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	15.7	56.2	84.4#



#53
 Toluene
 Concen: 0.453 ppbv
 RT: 9.94 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: VL033763.D
 Acq: 23 May 2019 3:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.6	71.4

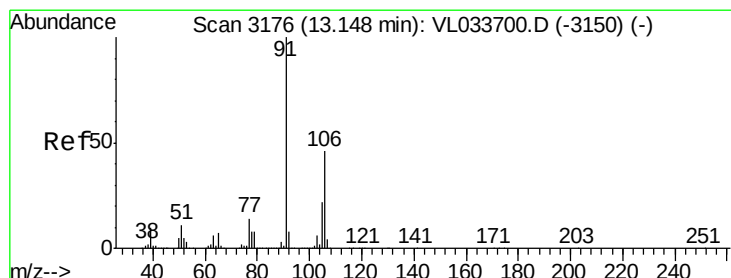
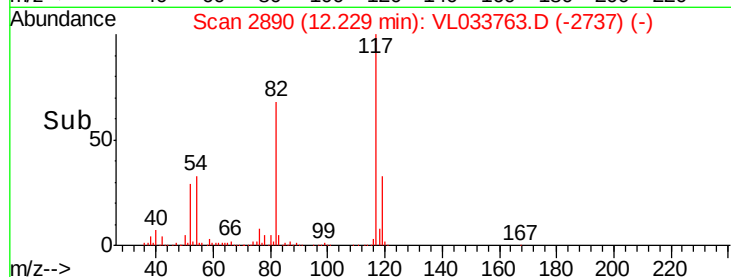
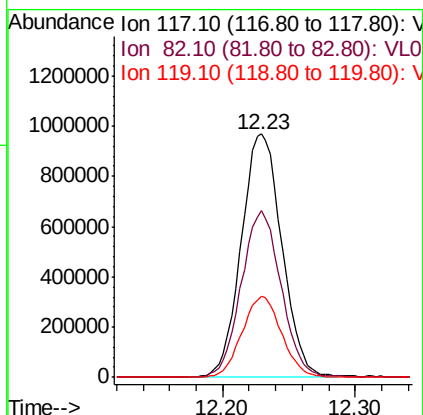
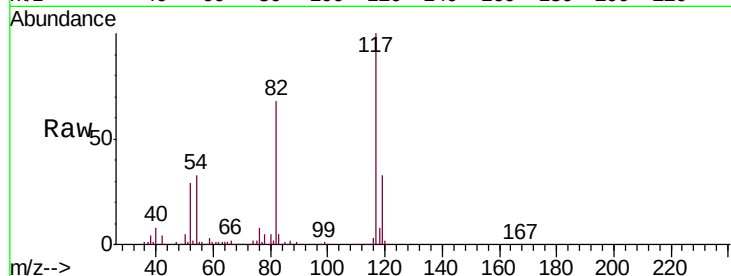




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

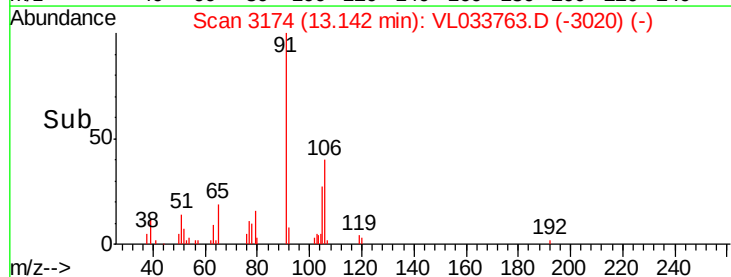
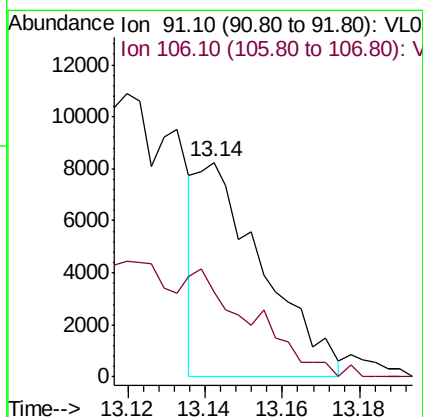
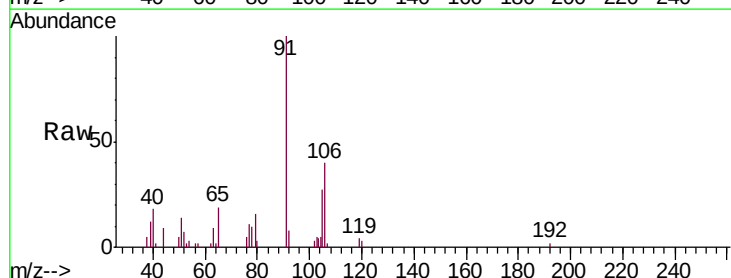
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3004-25DL

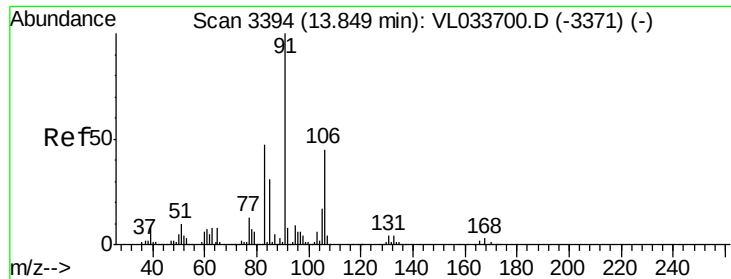
Tgt Ion: 117 Resp: 2055458
Ion Ratio Lower Upper
117 100
82 67.7 49.4 74.0
119 32.7 24.9 37.3



#59
m/p-Xylene
Concen: 0.041 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

Tgt Ion: 91 Resp: 9693
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#

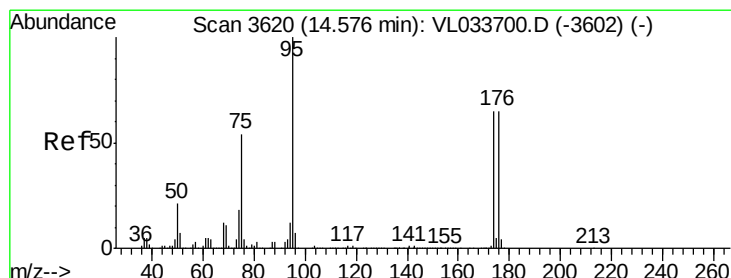
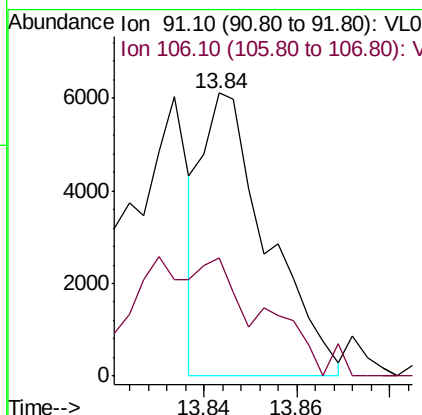
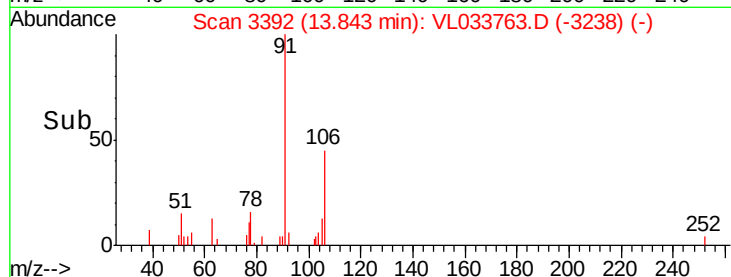
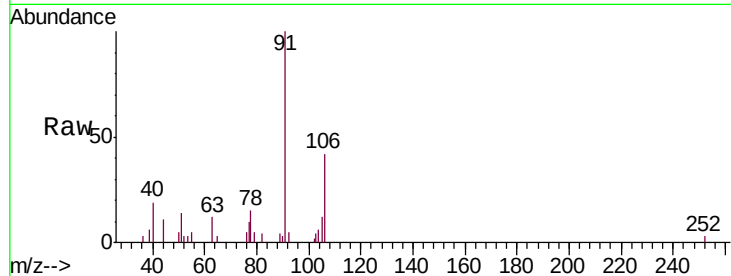




#60
o-Xylene
Concen: 0.025 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

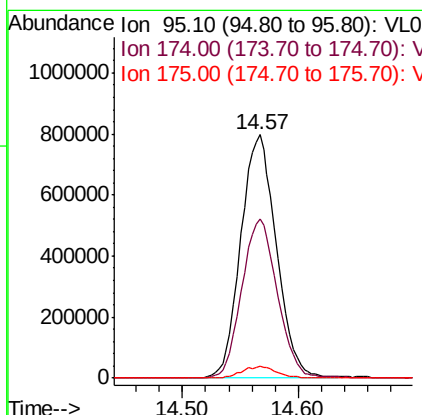
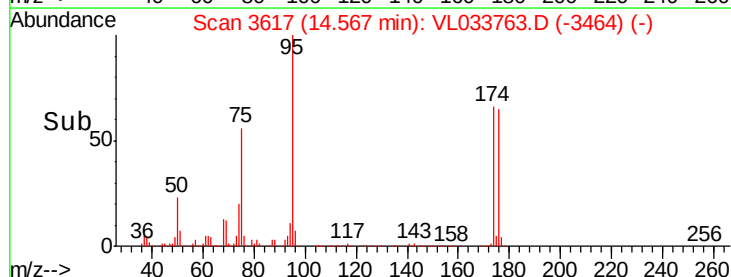
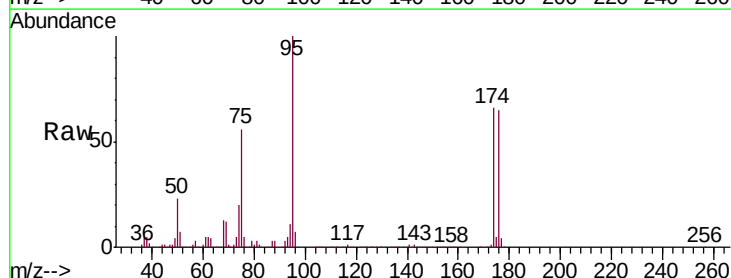
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3004-25DL

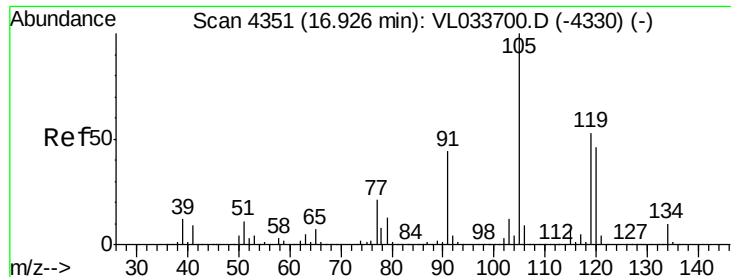
Tgt Ion: 91 Resp: 5947
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.194 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033763.D
Acq: 23 May 2019 3:12

Tgt Ion: 95 Resp: 1698704
Ion Ratio Lower Upper
95 100
174 65.6 53.9 80.9
175 4.8 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.026 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL033763.D
 Acq: 23 May 2019 3:12

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3004-25DL

Tgt Ion:	105	Resp:	7441
Ion	Ratio	Lower	Upper
105	100		
120	36.2	36.8	55.2#
91	13.2	35.4	53.0#
77	1.2	16.8	25.2#

