

Data File : VL033765.D
Acq On : 23 May 2019 4:28
Operator : SY/AP
Sample : K2929-03DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-25DL

Quant Time: May 23 06:54:15 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	908474	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2140435	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2061760	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1735383	10.38	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	5403	0.028	ppbv	94
8) Dichlorotetrafluoroethane	3.08	85	5403	0.035	ppbv #	17
9) Propene	3.03	41	25468	0.575	ppbv	92
10) Heptane	8.24	43	3743	0.030	ppbv #	68
11) Trichlorofluoromethane	4.00	101	4076	0.022	ppbv	84
13) Ethanol	3.66	45	13952	0.975	ppbv #	38
15) Acetone	3.90	43	277219	2.199	ppbv	99
16) 1,3-Butadiene	3.34	39	20814	0.415	ppbv #	25
20) Methylene Chloride	4.41	84	5442	0.112	ppbv #	94
23) Vinyl Acetate	5.14	43	2428	0.015	ppbv #	84
25) Ethyl Acetate	5.77	43	5251	0.024	ppbv #	76
26) Hexane	5.78	57	1223	0.013	ppbv #	1
27) Carbon Disulfide	4.62	76	5125	0.039	ppbv #	1
34) 2-Butanone	5.34	43	29273	0.221	ppbv	97
36) Benzene	6.99	78	3638	0.019	ppbv #	68
39) 1,2-Dichloropropane	7.28	63	556234	7.663	ppbv #	23
53) Toluene	9.94	91	87522	0.417	ppbv	98
58) Ethyl Benzene	13.11	91	25226	0.092	ppbv	98
59) m/p-Xylene	13.13	91	9926	0.042	ppbv #	31
60) o-Xylene	13.83	91	6248	0.026	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.91	105	6920	0.024	ppbv #	45

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

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Sample : K2929-03DL 40X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-25DL

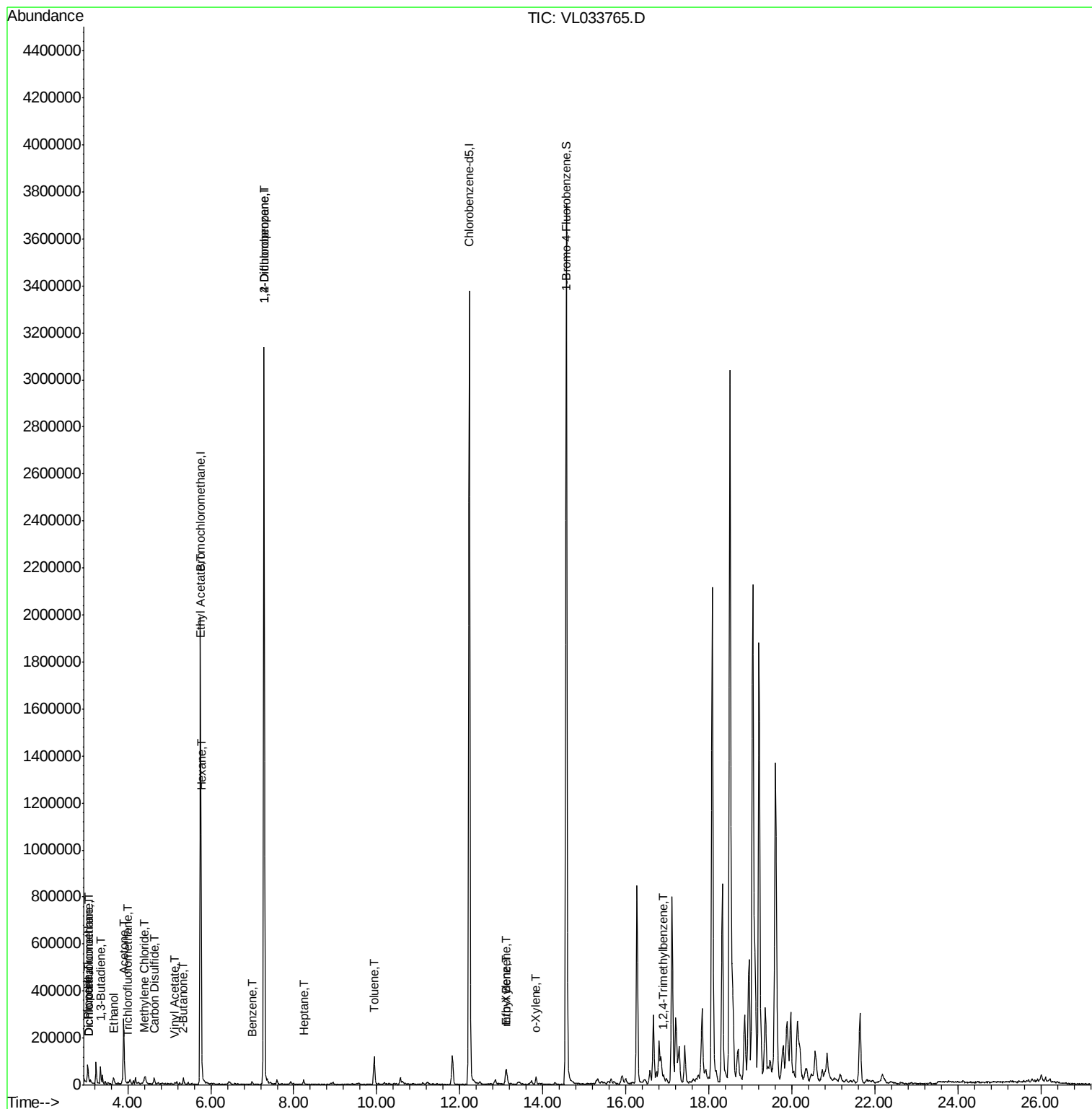
Quant Time: May 23 06:54:15 2019

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033765.D

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Instrument :

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ClientSampleId :

BPS1-SG-3005-25DL

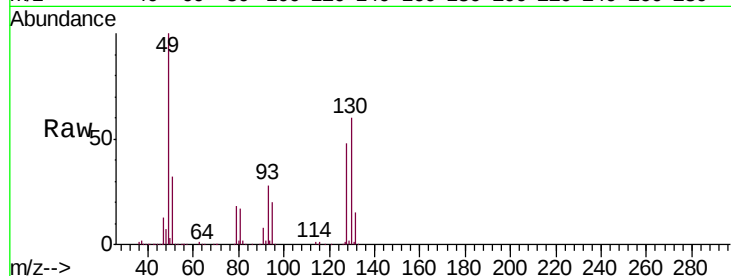
Tgt Ion: 49 Resp: 908474

Ion Ratio Lower Upper

49 100

128 47.6 25.2 75.6

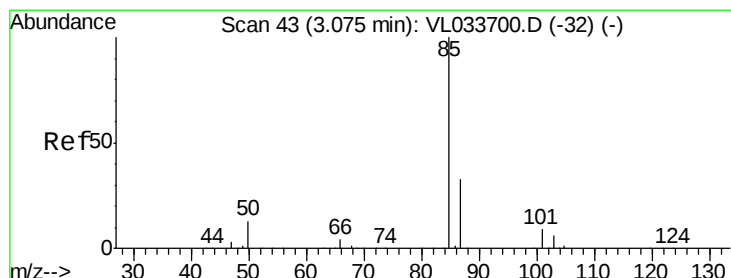
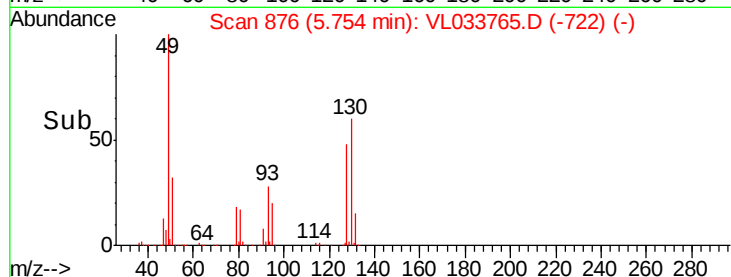
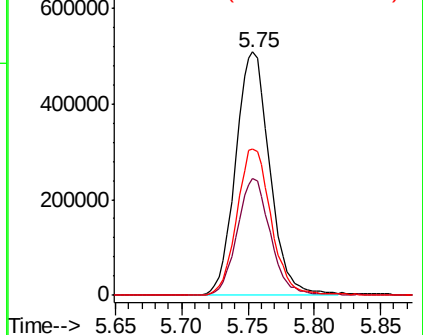
130 60.6 32.5 97.5



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: 0.028 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033765.D

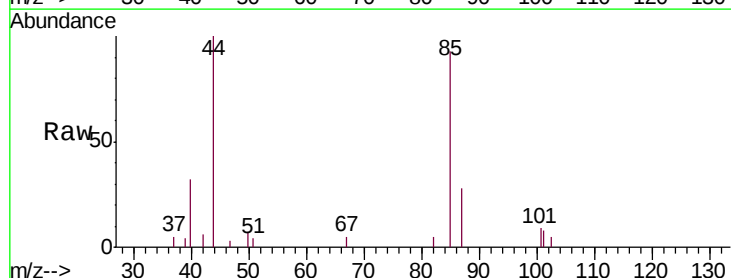
Acq: 23 May 2019 4:28

Tgt Ion: 85 Resp: 5403

Ion Ratio Lower Upper

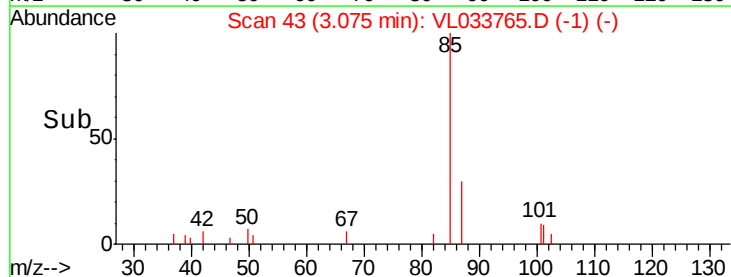
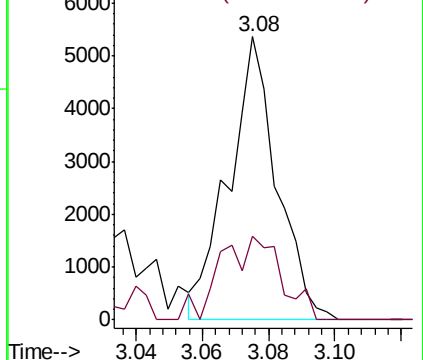
85 100

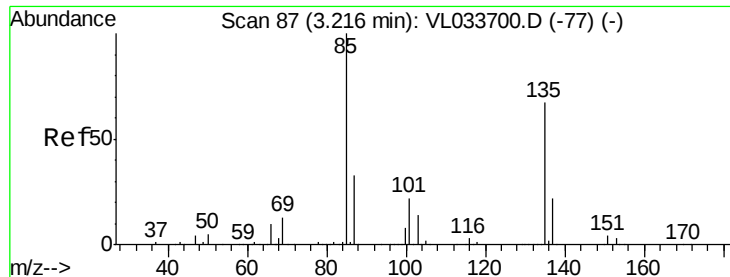
87 29.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

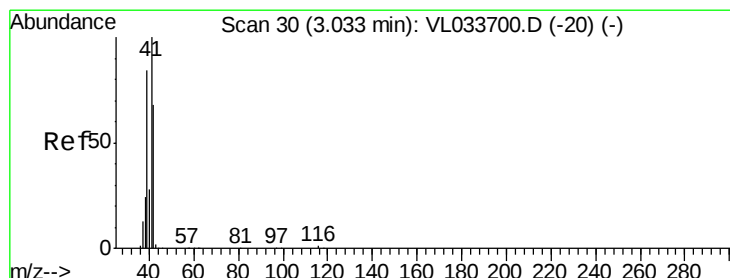
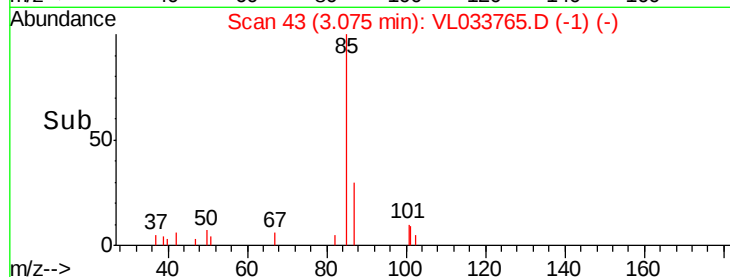
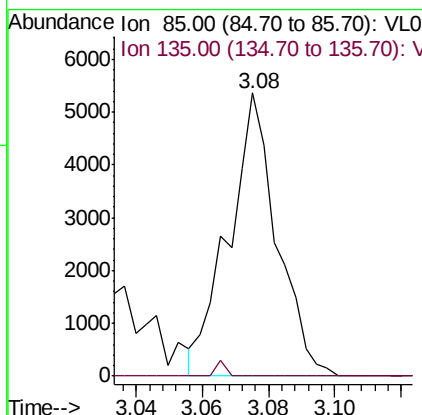
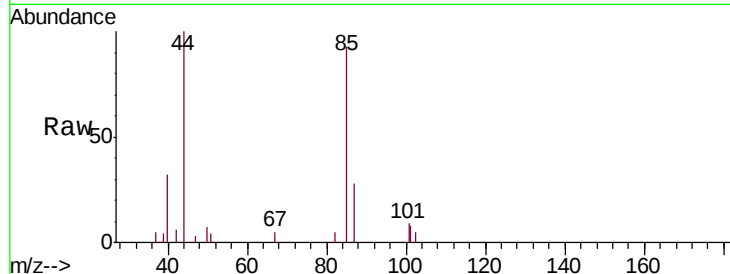




#8
Dichlorotetrafluoroethane
Concen: 0.035 ppbv
RT: 3.08 min Scan# 43
Delta R.T. -0.14 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

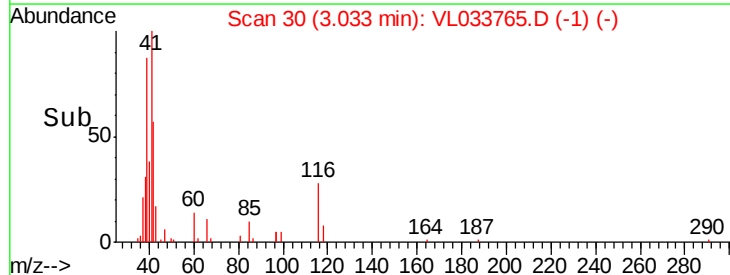
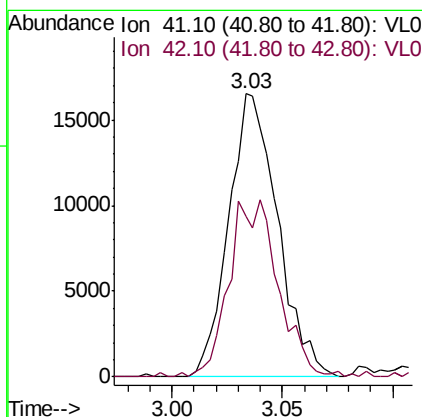
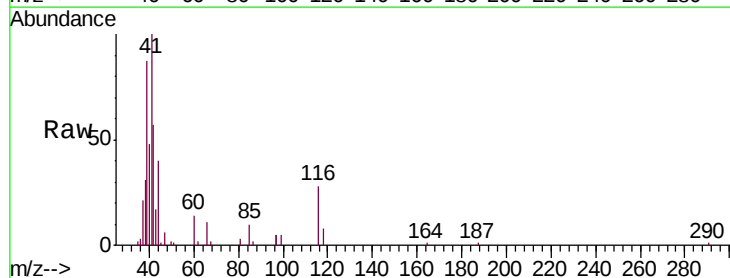
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BPS1-SG-3005-25DL

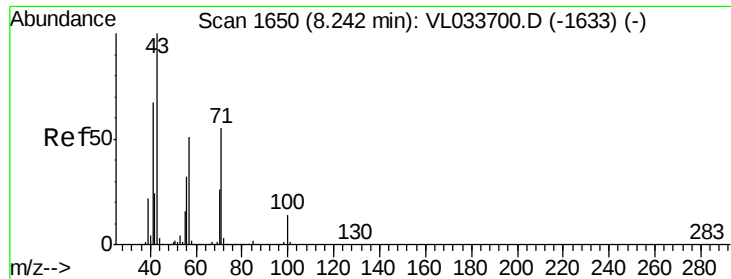
Tgt Ion: 85 Resp: 5403
Ion Ratio Lower Upper
85 100
135 1.0 54.5 81.7#



#9
Propene
Concen: 0.575 ppbv
RT: 3.03 min Scan# 30
Delta R.T. 0.00 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

Tgt Ion: 41 Resp: 25468
Ion Ratio Lower Upper
41 100
42 63.1 56.1 84.1

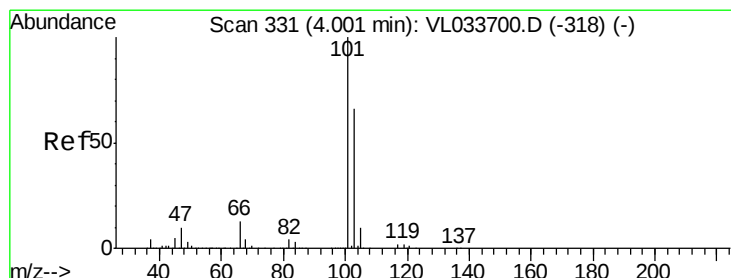
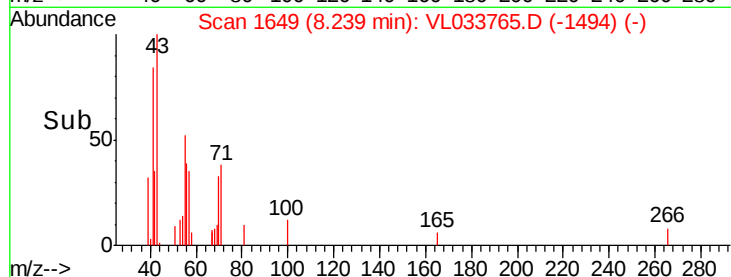
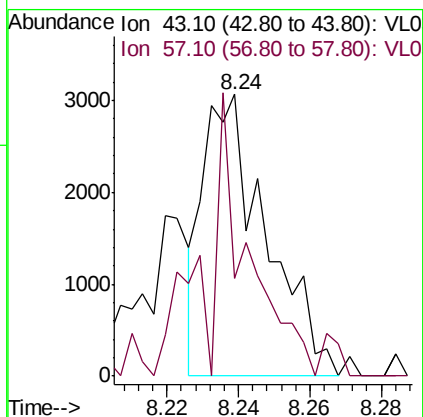
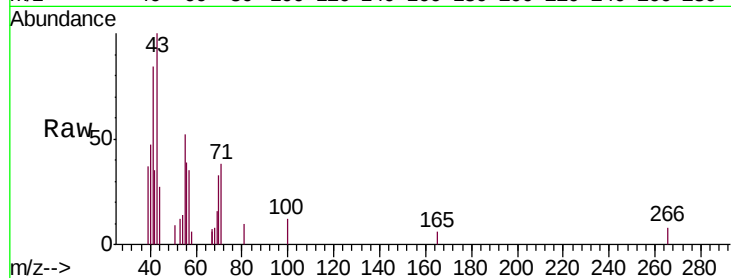




#10
 Heptane
 Concen: 0.030 ppbv
 RT: 8.24 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VL033765.D
 Acq: 23 May 2019 4:28

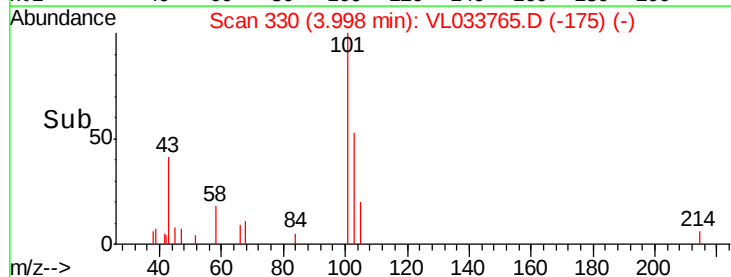
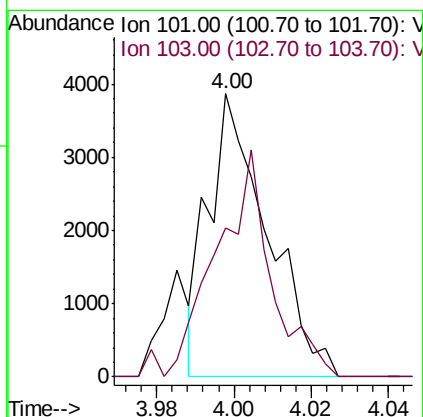
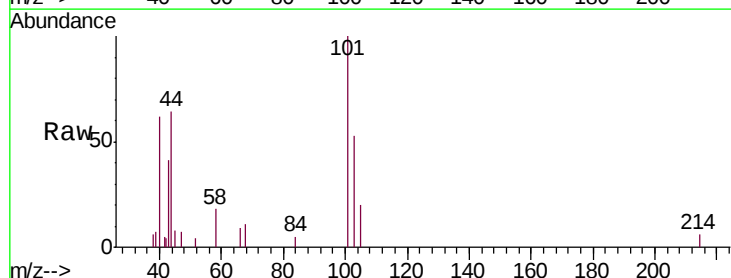
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-25DL

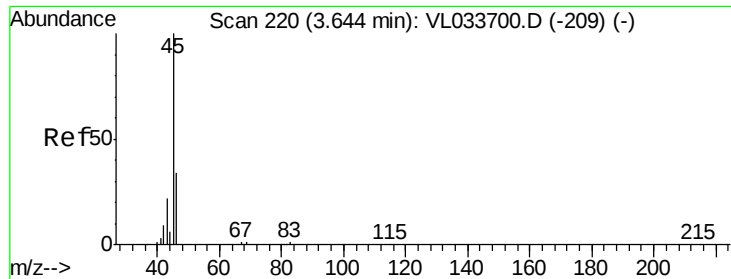
Tgt Ion: 43 Resp: 3743
 Ion Ratio Lower Upper
 43 100
 57 74.2 41.4 62.0#



#11
 Trichlorofluoromethane
 Concen: 0.022 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033765.D
 Acq: 23 May 2019 4:28

Tgt Ion: 101 Resp: 4076
 Ion Ratio Lower Upper
 101 100
 103 52.7 52.6 78.8





#13

Ethanol

Concen: 0.975 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.02 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Instrument :

MSVOA_L

ClientSampleId :

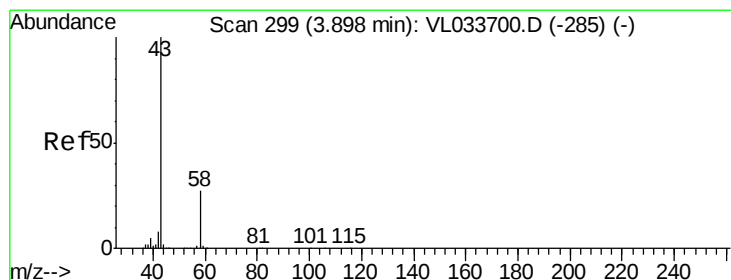
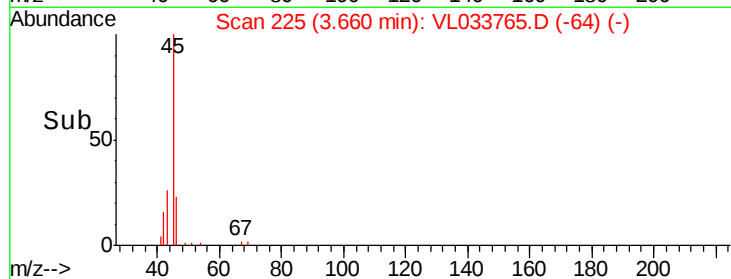
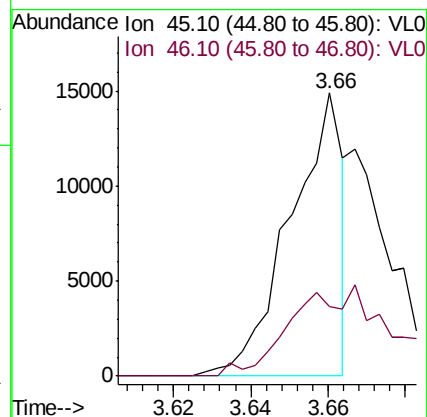
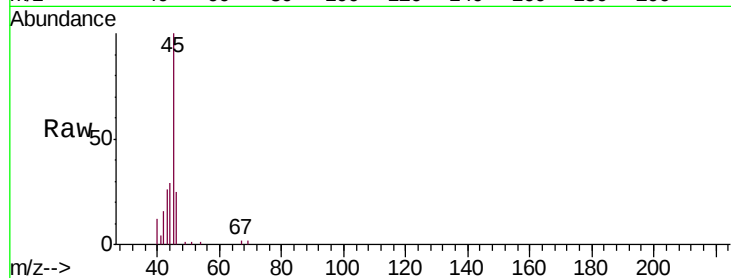
BPS1-SG-3005-25DL

Tgt Ion: 45 Resp: 13952

Ion Ratio Lower Upper

45 100

46 0.0 14.8 59.0#



#15

Acetone

Concen: 2.199 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033765.D

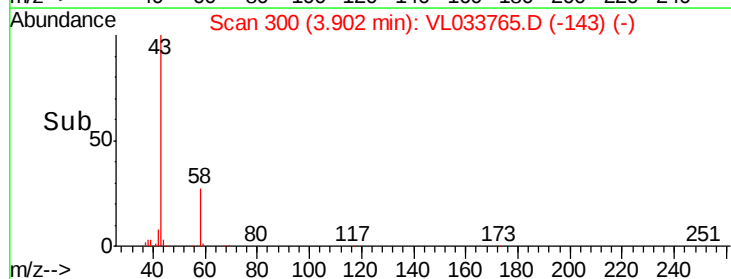
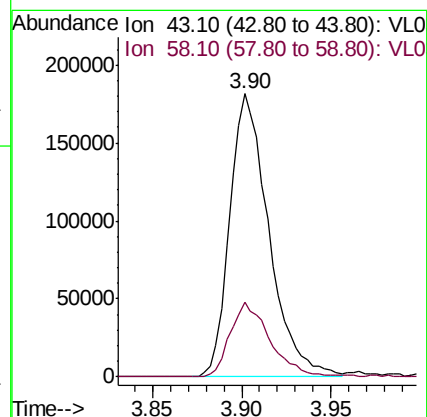
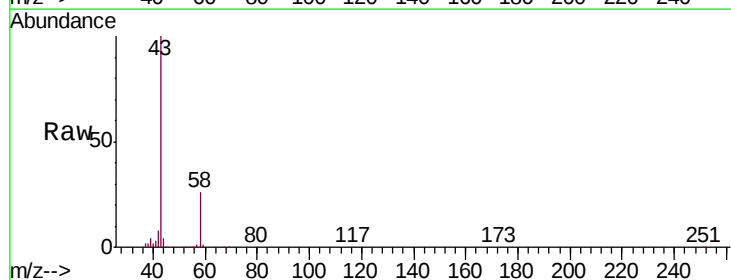
Acq: 23 May 2019 4:28

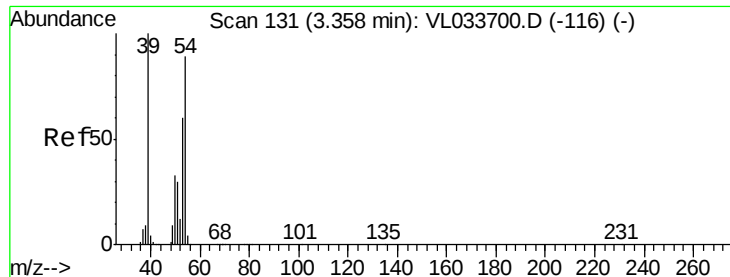
Tgt Ion: 43 Resp: 277219

Ion Ratio Lower Upper

43 100

58 27.3 21.3 31.9

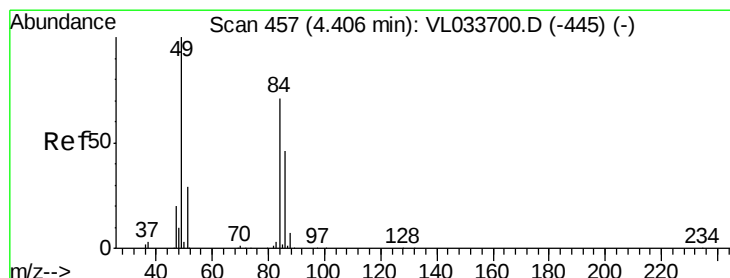
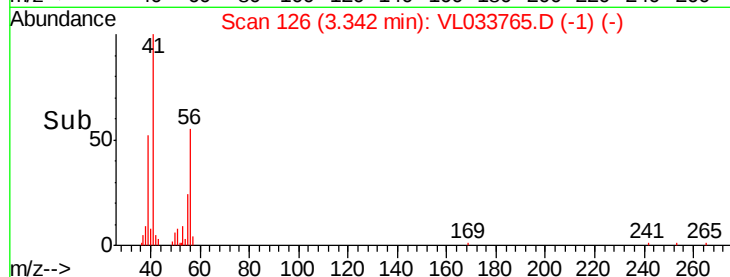
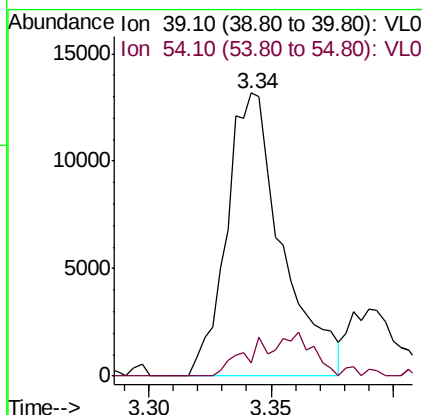
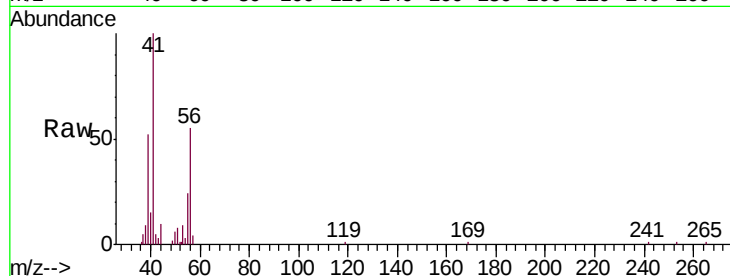




#16
1,3-Butadiene
Concen: 0.415 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

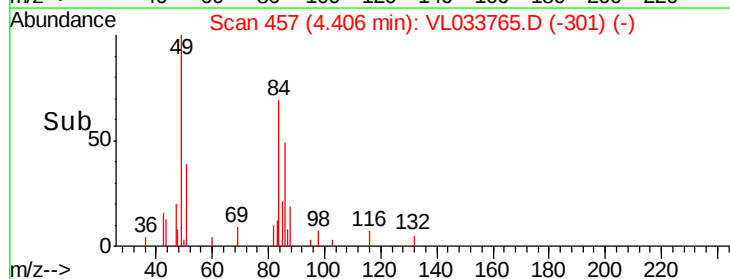
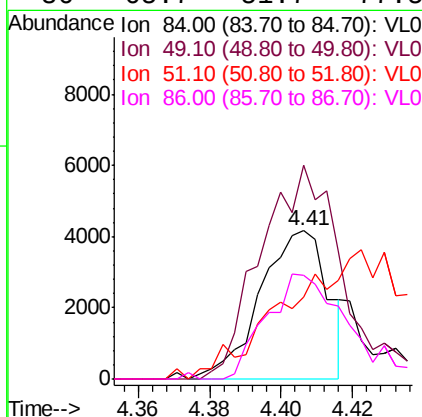
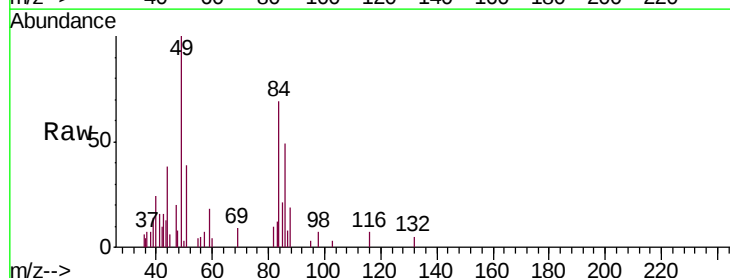
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-25DL

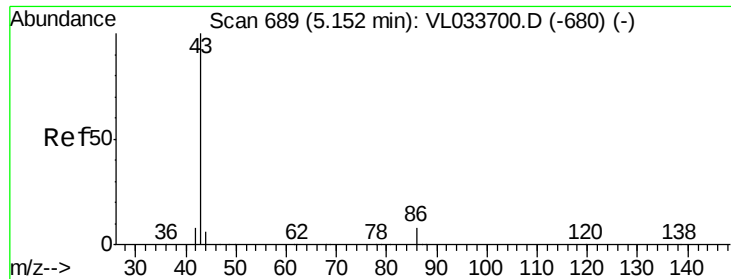
Tgt Ion: 39 Resp: 20814
Ion Ratio Lower Upper
39 100
54 17.2 69.0 103.6#



#20
Methylene Chloride
Concen: 0.112 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

Tgt Ion: 84 Resp: 5442
Ion Ratio Lower Upper
84 100
49 144.4 112.8 169.2
51 55.8 33.4 50.0#
86 65.7 51.7 77.5





#23

Vinyl Acetate

Concen: 0.015 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-25DL

Tgt Ion: 43 Resp: 2428

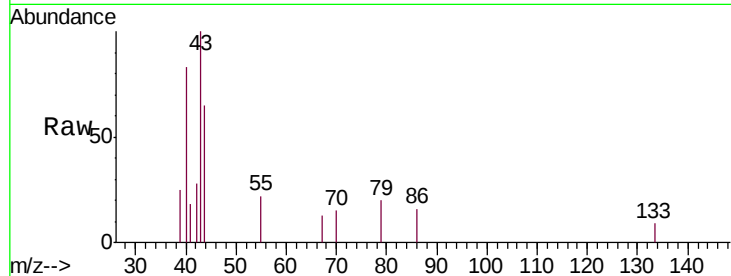
Ion Ratio Lower Upper

43 100

86 12.1 6.0 9.0#

42 2.8 7.5 11.3#

44 0.0 4.4 6.6#

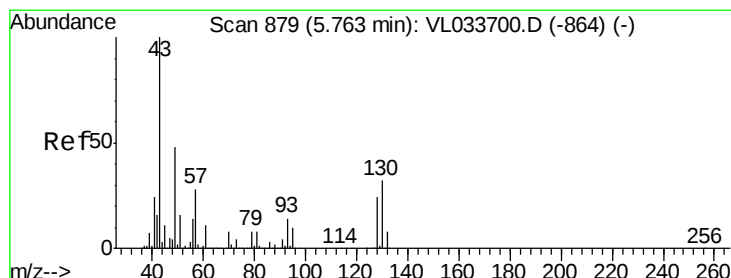
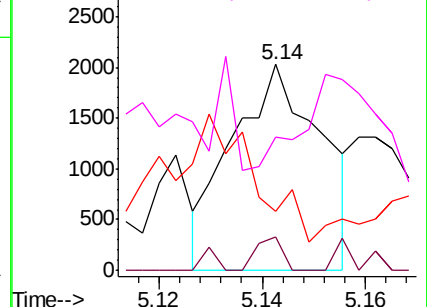
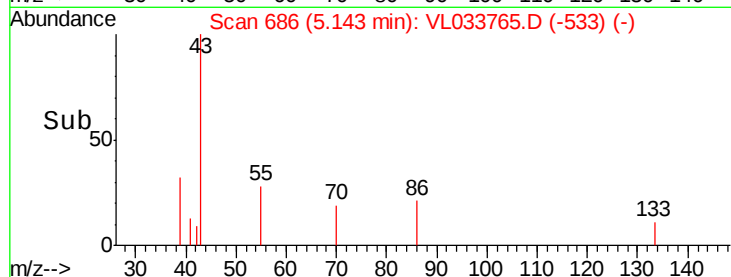


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.024 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Tgt Ion: 43 Resp: 5251

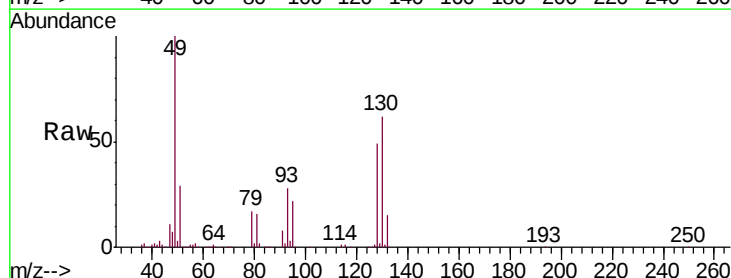
Ion Ratio Lower Upper

43 100

45 0.8 7.9 11.9#

61 0.0 7.7 11.5#

70 0.0 5.8 8.6#

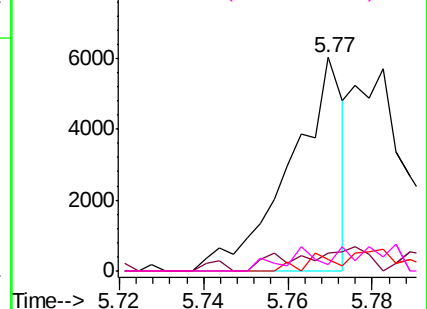
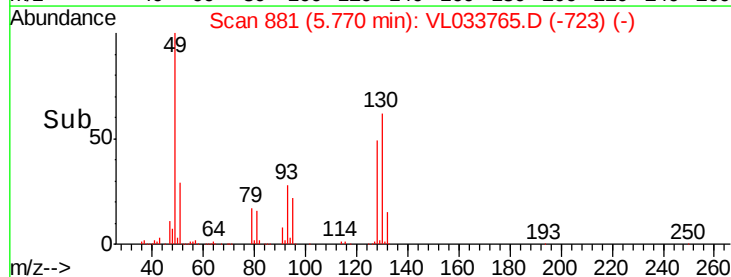


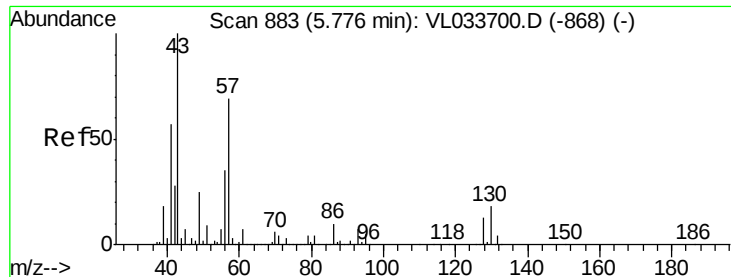
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

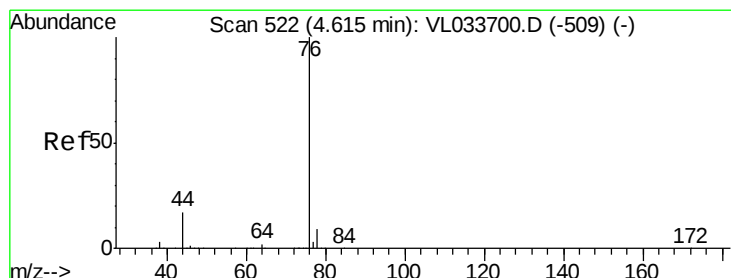
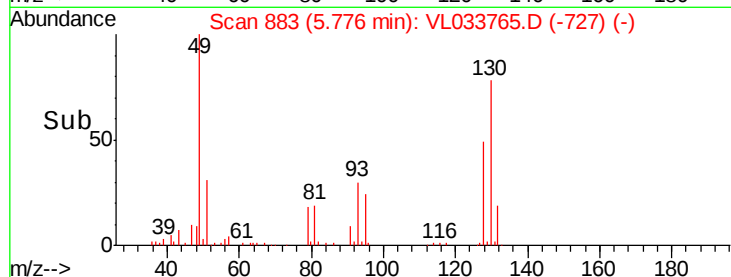
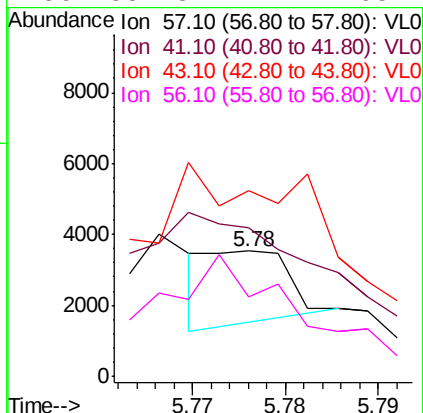
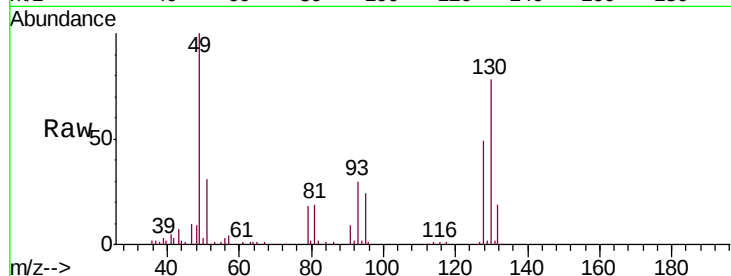




#26
Hexane
Concen: 0.013 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

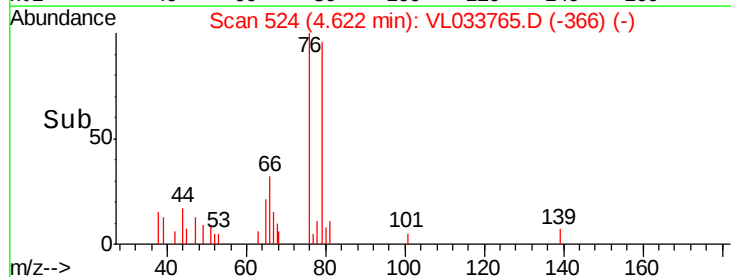
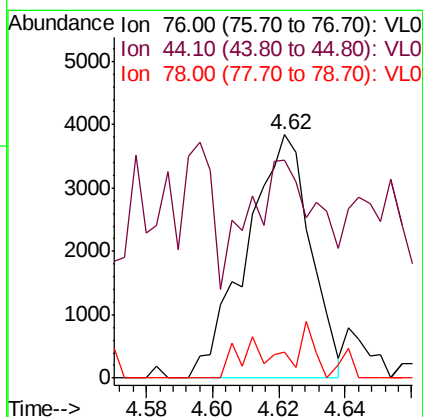
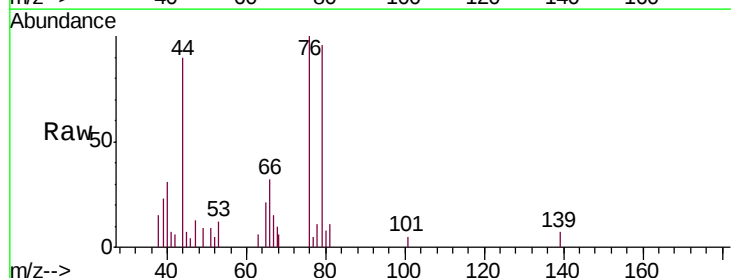
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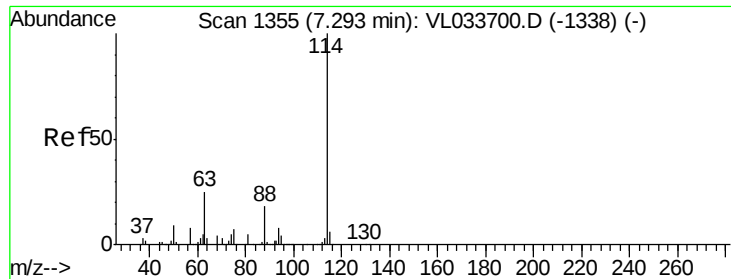
Tgt Ion: 57 Resp: 1223
Ion Ratio Lower Upper
57 100
41 694.4 69.8 104.6#
43 892.2 181.8 272.6#
56 382.3 42.1 63.1#



#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.01 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

Tgt Ion: 76 Resp: 5125
Ion Ratio Lower Upper
76 100
44 87.0 13.8 20.8#
78 17.2 7.4 11.0#

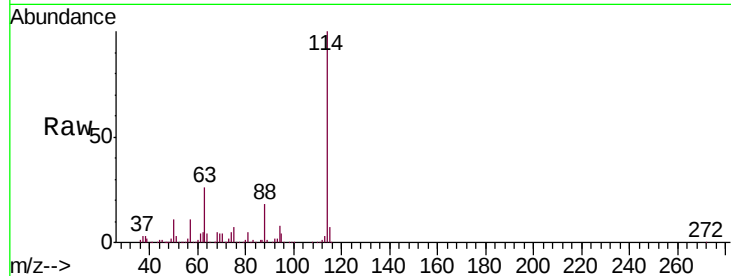




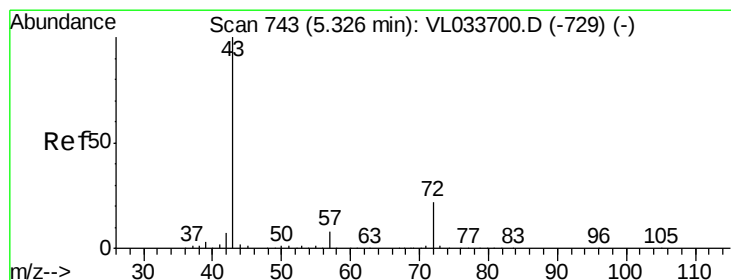
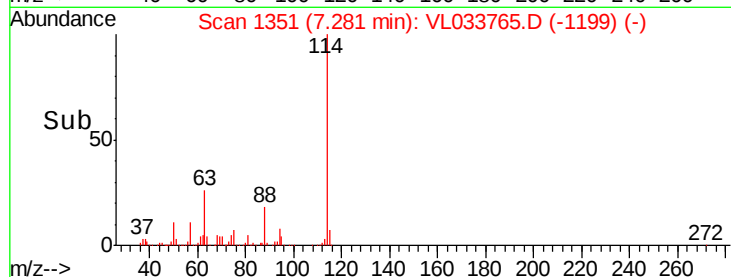
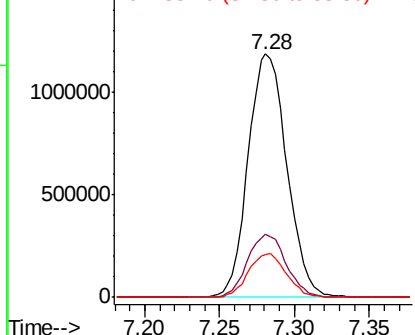
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033765.D
 Acq: 23 May 2019 4:28

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-25DL

Tgt Ion: 114 Resp: 2140435
 Ion Ratio Lower Upper
 114 100
 63 26.1 20.9 31.3
 88 17.8 14.3 21.5

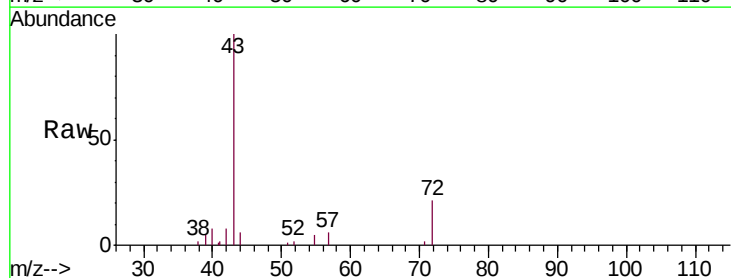


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

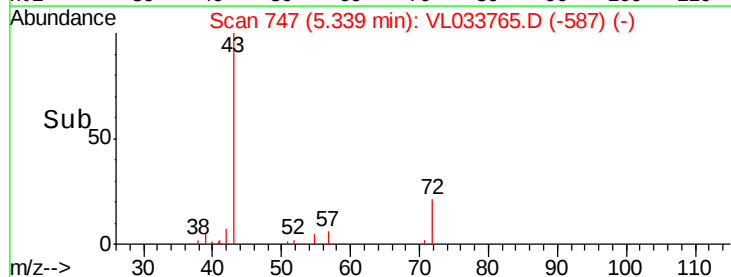
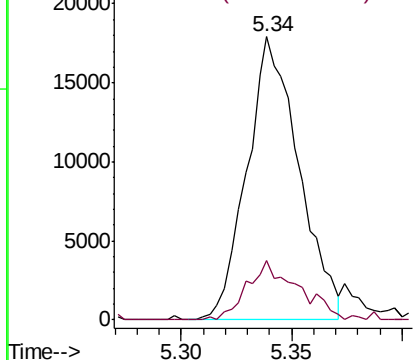


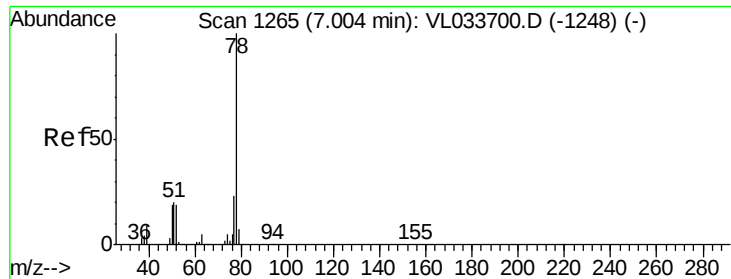
#34
 2-Butanone
 Concen: 0.221 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033765.D
 Acq: 23 May 2019 4:28

Tgt Ion: 43 Resp: 29273
 Ion Ratio Lower Upper
 43 100
 72 21.0 17.8 26.6



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





#36

Benzene

Concen: 0.019 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-25DL

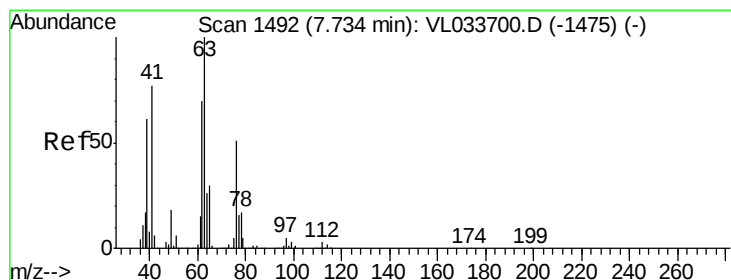
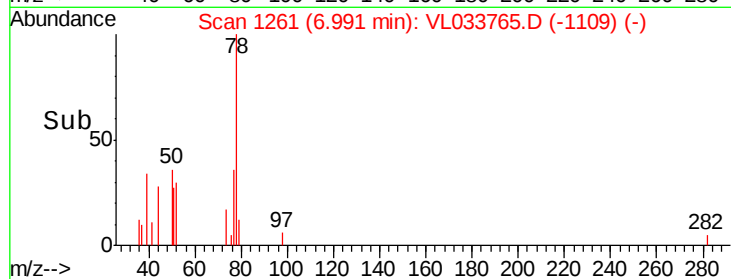
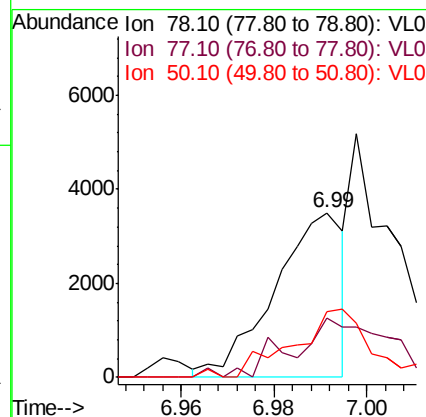
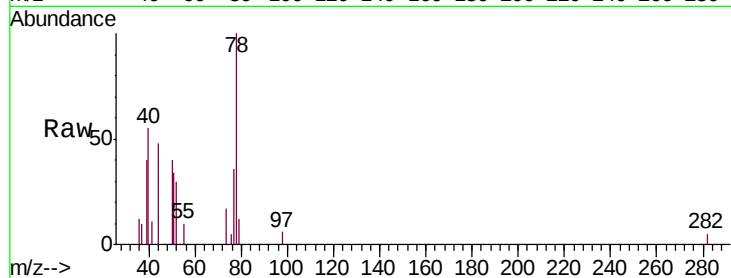
Tgt Ion: 78 Resp: 3638

Ion Ratio Lower Upper

78 100

77 37.5 18.4 27.6#

50 34.7 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 7.663 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

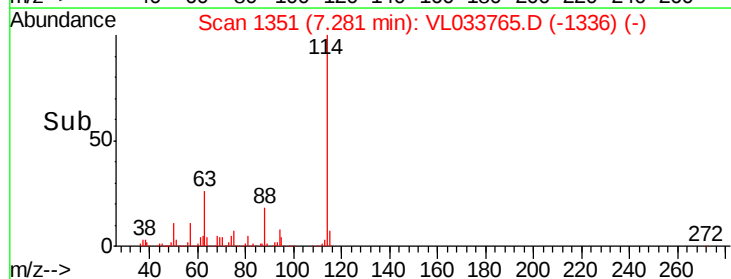
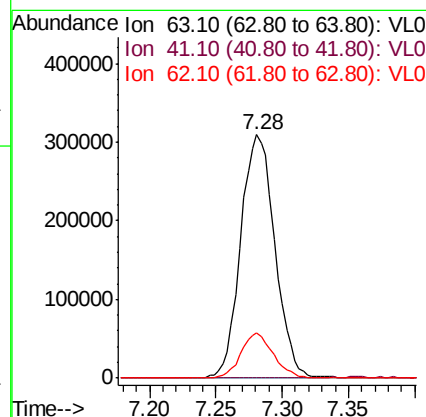
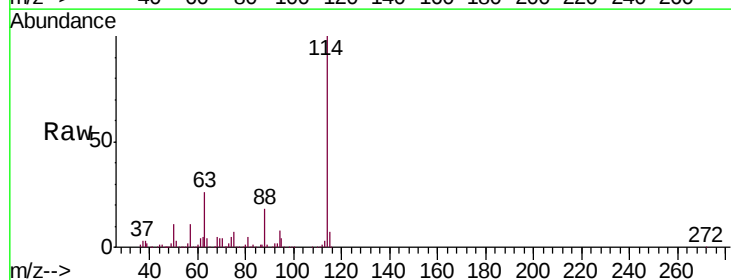
Tgt Ion: 63 Resp: 556234

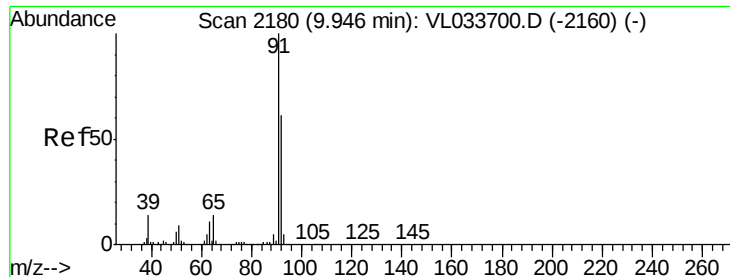
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 18.5 56.2 84.4#





#53

Toluene

Concen: 0.417 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Instrument :

MSVOA_L

ClientSampleId :

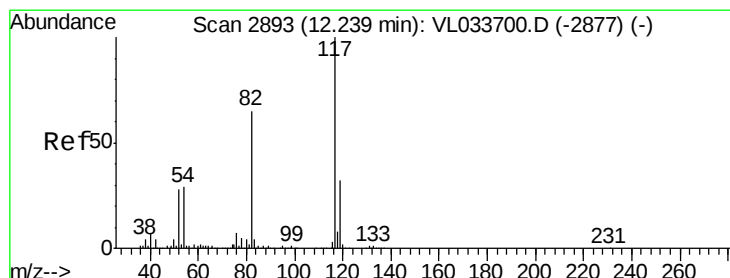
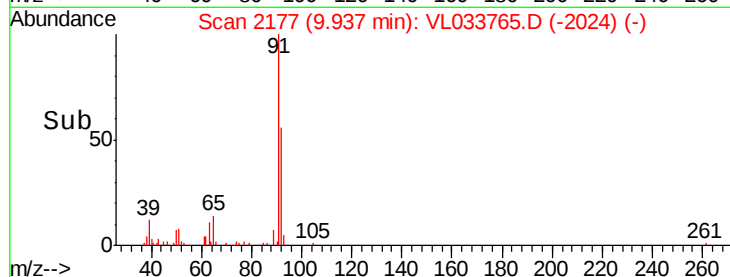
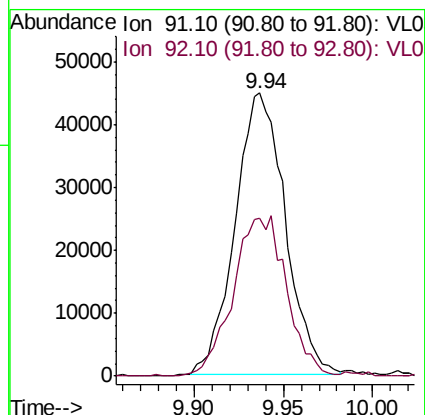
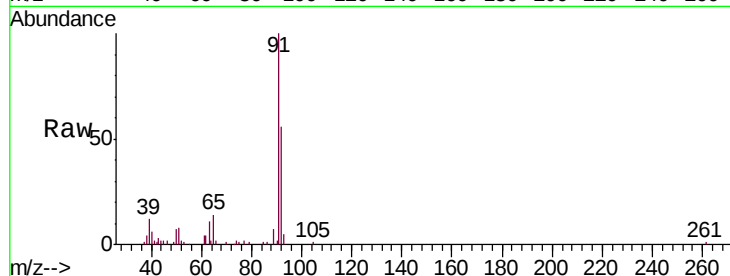
BPS1-SG-3005-25DL

Tgt Ion: 91 Resp: 87522

Ion Ratio Lower Upper

91 100

92 61.0 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

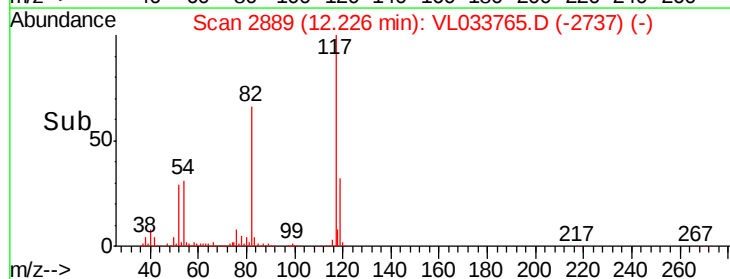
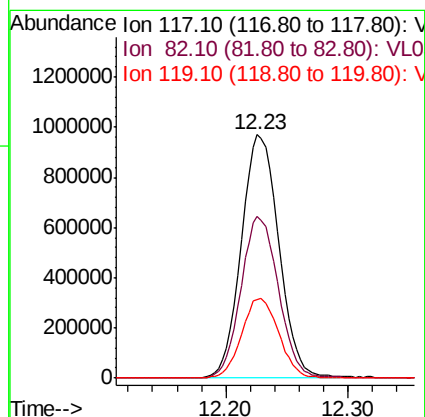
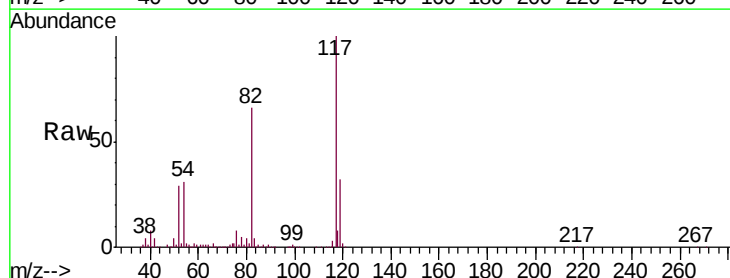
Tgt Ion: 117 Resp: 2061760

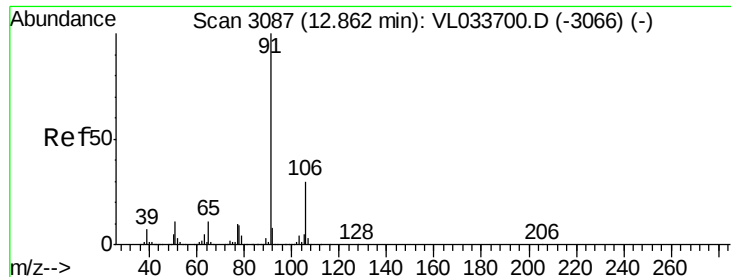
Ion Ratio Lower Upper

117 100

82 66.8 49.4 74.0

119 32.6 24.9 37.3





#58

Ethyl Benzene

Concen: 0.092 ppbv

RT: 13.11 min Scan# 3163

Delta R.T. 0.24 min

Lab File: VL033765.D

Acq: 23 May 2019 4:28

Instrument :

MSVOA_L

ClientSampleId :

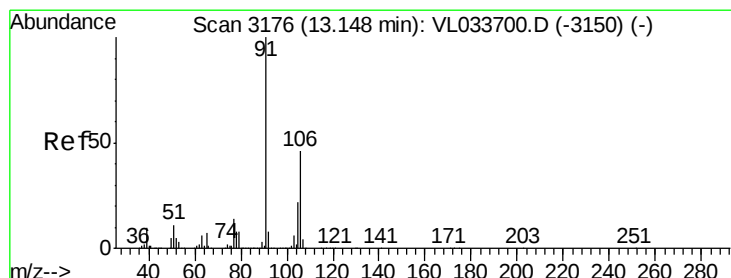
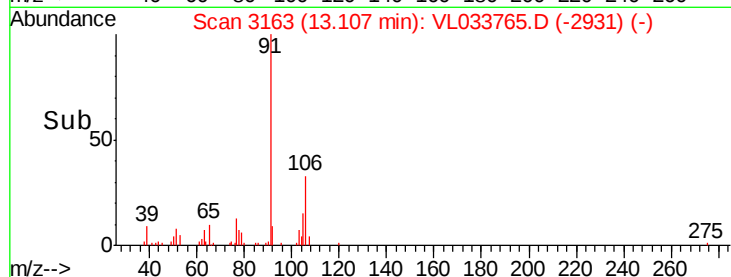
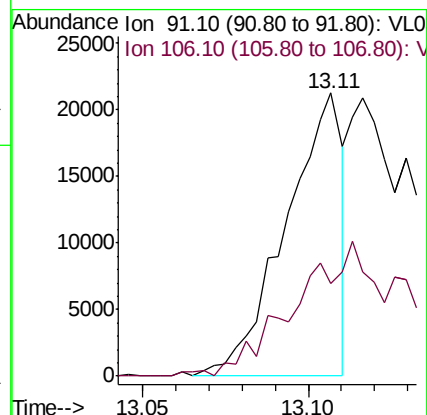
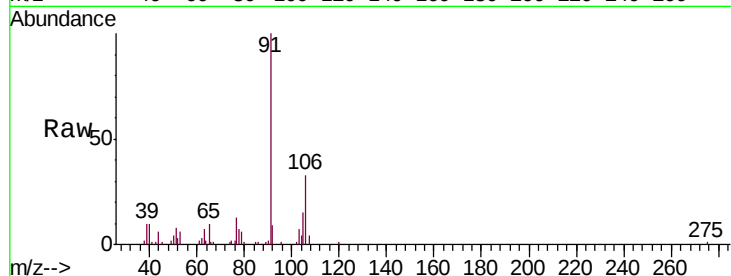
BPS1-SG-3005-25DL

Tgt Ion: 91 Resp: 25226

Ion Ratio Lower Upper

91 100

106 31.2 23.9 35.9



#59

m/p-Xylene

Concen: 0.042 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.02 min

Lab File: VL033765.D

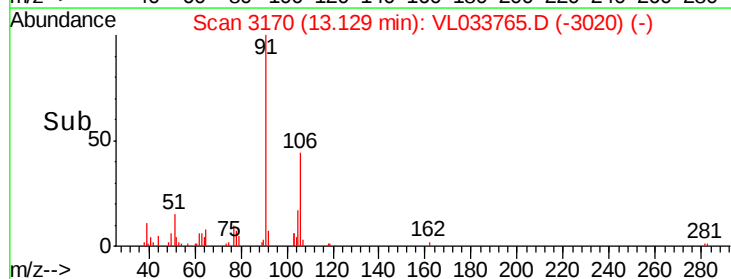
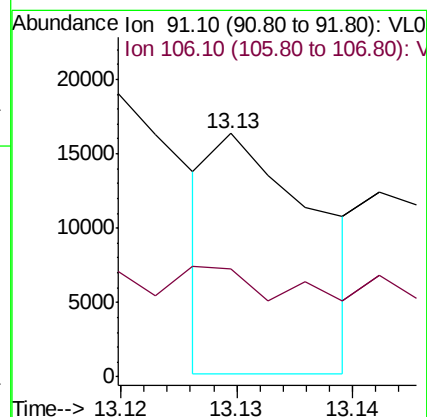
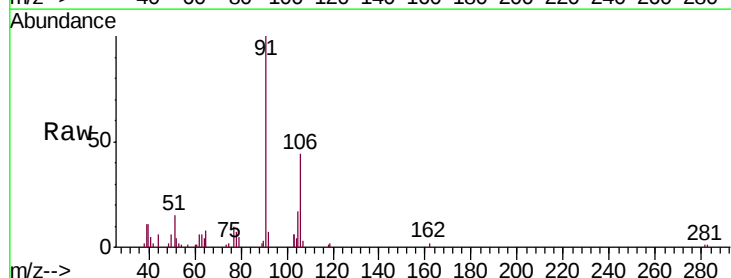
Acq: 23 May 2019 4:28

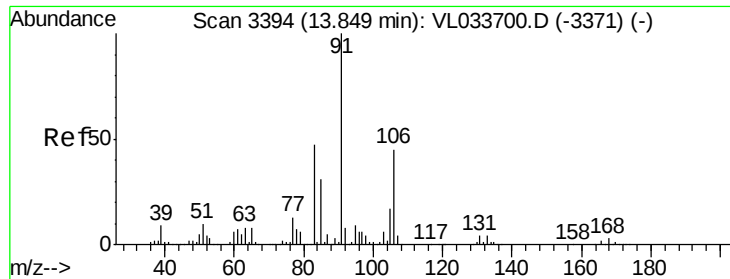
Tgt Ion: 91 Resp: 9926

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.6#

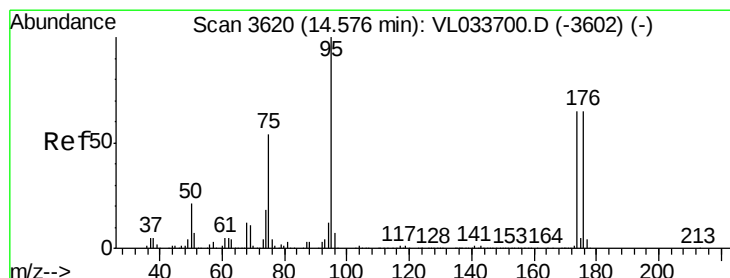
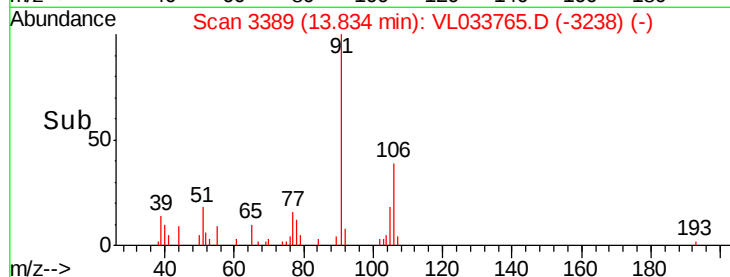
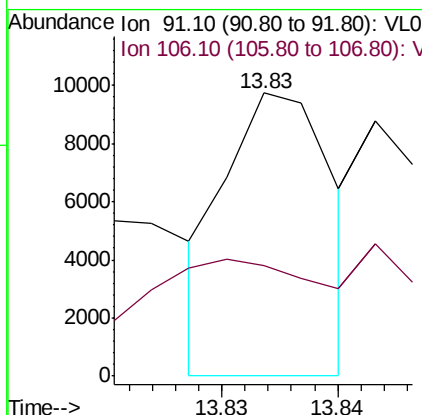
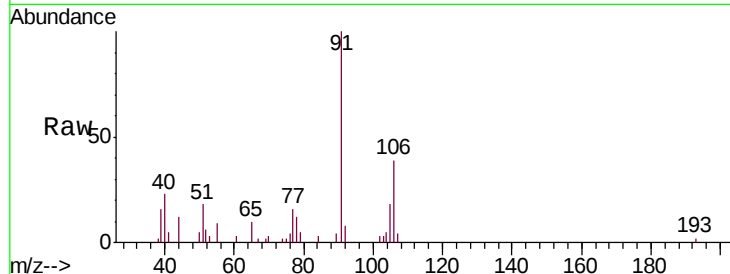




#60
o-Xylene
Concen: 0.026 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

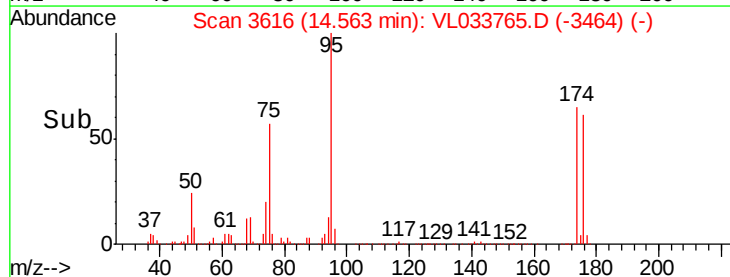
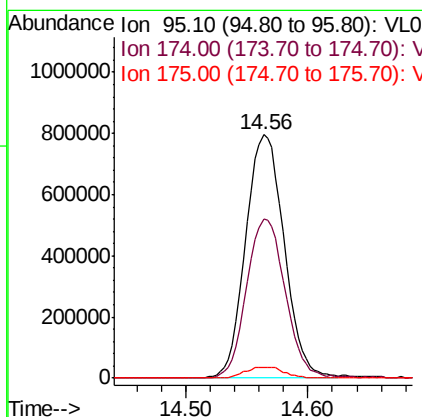
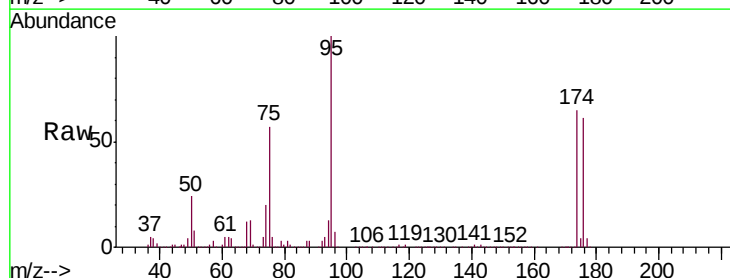
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-25DL

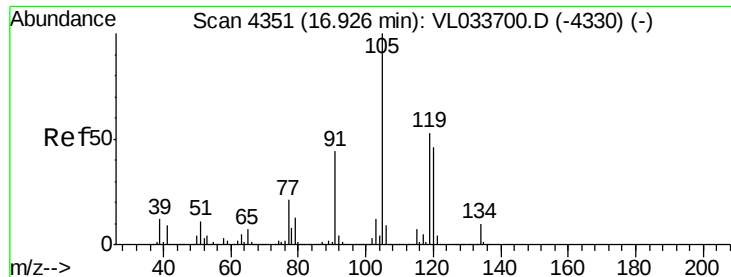
Tgt Ion: 91 Resp: 6248
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033765.D
Acq: 23 May 2019 4:28

Tgt Ion: 95 Resp: 1735383
Ion Ratio Lower Upper
95 100
174 65.8 53.9 80.9
175 4.7 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.024 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.02 min
 Lab File: VL033765.D
 Acq: 23 May 2019 4:28

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-25DL

Tgt Ion:	105	Resp:	6920
Ion	Ratio	Lower	Upper
105	100		
120	11.7	36.8	55.2#
91	0.0	35.4	53.0#
77	4.1	16.8	25.2#

