

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL051618\
 Data File : VL032008.D
 Acq On : 16 May 2018 19:41
 Operator : SY/AP
 Sample : J2942-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

Quant Time: May 17 09:05:46 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1344411	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2042795	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.37	117	2087041	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	1669097	10.31	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

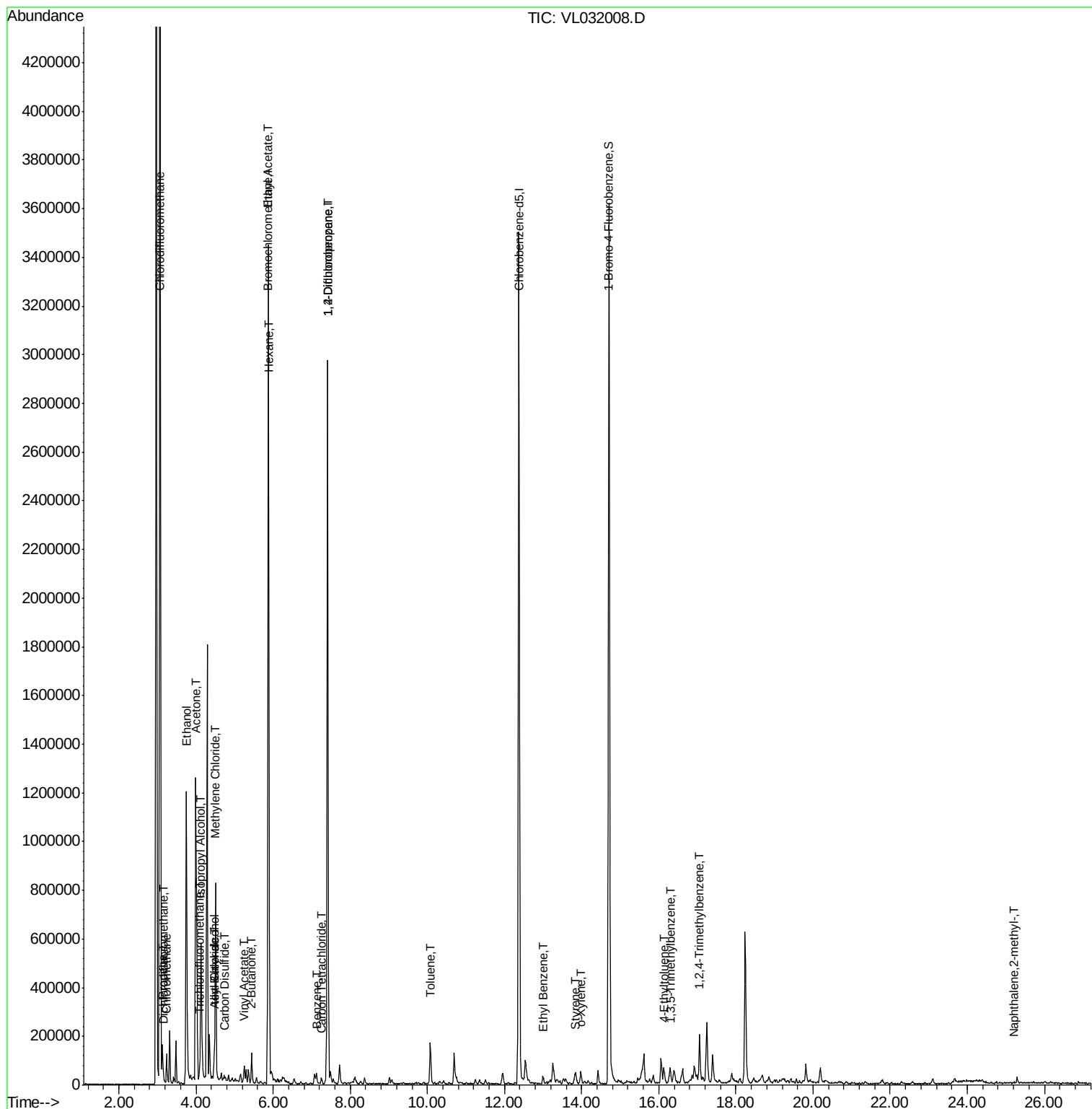
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.16	85	34017	0.19	ppbv	93
3) Chlorodifluoromethane	3.06	51	4214393	33.31	ppbv #	57
4) Chloromethane	3.25	50	33846	0.51	ppbv	91
9) Propene	3.12	41	26352	0.57	ppbv #	77
11) Trichlorofluoromethane	4.10	101	23981	0.11	ppbv	95
13) Ethanol	3.75	45	1378463	79.63	ppbv #	100
15) Acetone	3.99	43	1420946	7.48	ppbv	95
17) tert-Butyl alcohol	4.48	59	31122	0.40	ppbv #	72
19) Isopropyl Alcohol	4.13	45	661362	6.44	ppbv	100
20) Methylene Chloride	4.51	84	281596	4.39	ppbv	91
21) Allyl Chloride	4.46	41	7302	0.07	ppbv #	45
23) Vinyl Acetate	5.25	43	22506	0.10	ppbv #	58
25) Ethyl Acetate	5.89	43	230007	0.70	ppbv #	89
26) Hexane	5.89	57	250935	1.64	ppbv #	51
27) Carbon Disulfide	4.73	76	7272	0.04	ppbv #	1
34) 2-Butanone	5.44	43	123281	0.73	ppbv	100
35) Carbon Tetrachloride	7.25	117	11310	0.07	ppbv	95
36) Benzene	7.12	78	9830	0.05	ppbv	97
39) 1,2-Dichloropropane	7.41	63	539254	8.05	ppbv #	24
53) Toluene	10.08	91	79129	0.38	ppbv #	71
58) Ethyl Benzene	13.00	91	23241	0.08	ppbv	94
60) o-Xylene	13.98	91	20106	0.08	ppbv #	33
61) Styrene	13.82	104	8605	0.17	ppbv #	52
72) 4-Ethyltoluene	16.13	105	23041	0.09	ppbv #	64
73) 1,3,5-Trimethylbenzene	16.29	105	35814	0.15	ppbv	100
74) 1,2,4-Trimethylbenzene	17.06	105	120312	0.46	ppbv #	66
80) Naphthalene,2-methyl-	25.22	142	1944	0.04	ppbv #	75

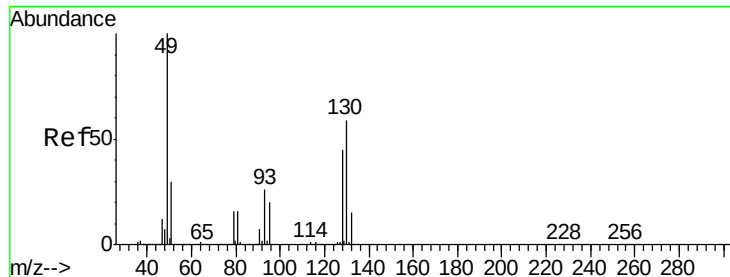
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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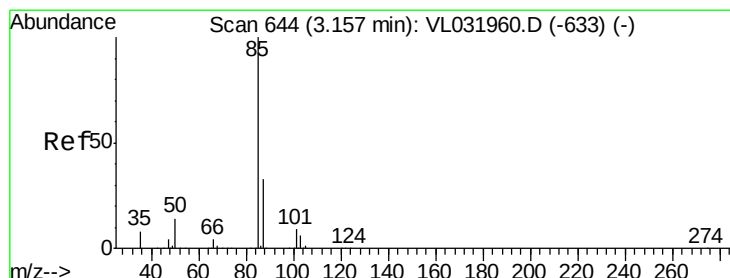
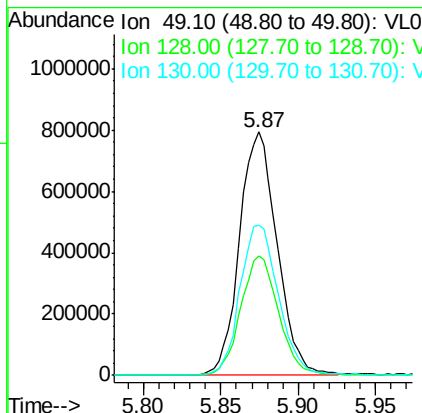
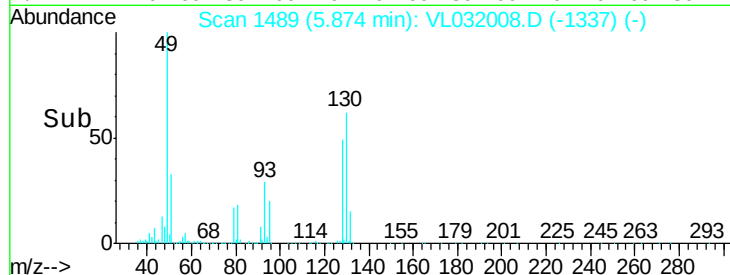
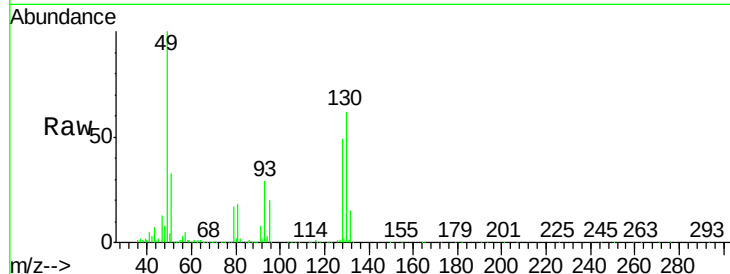




#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.87 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

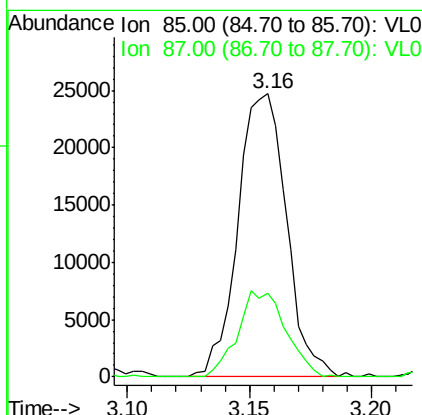
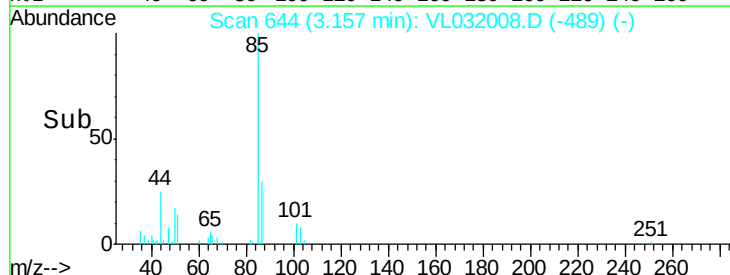
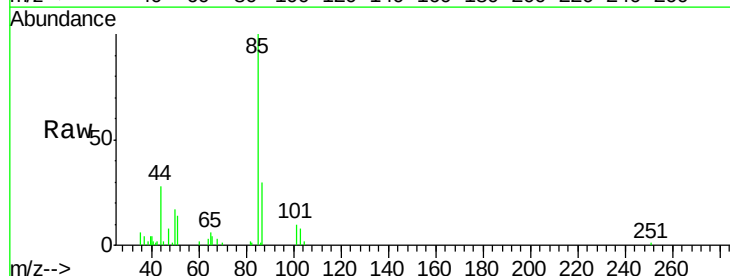
Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

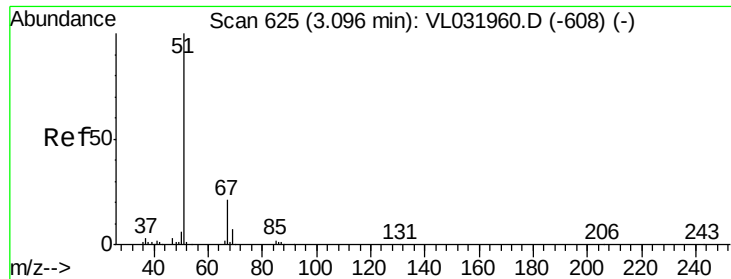
Tgt Ion: 49 Resp: 1344411
 Ion Ratio Lower Upper
 49 100
 128 49.7 24.1 72.3
 130 63.8 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.19 ppbv
 RT: 3.16 min Scan# 644
 Delta R.T. -0.00 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion: 85 Resp: 34017
 Ion Ratio Lower Upper
 85 100
 87 29.7 26.8 40.2





#3

Chlorodifluoromethane

Concen: 33.31 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.03 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

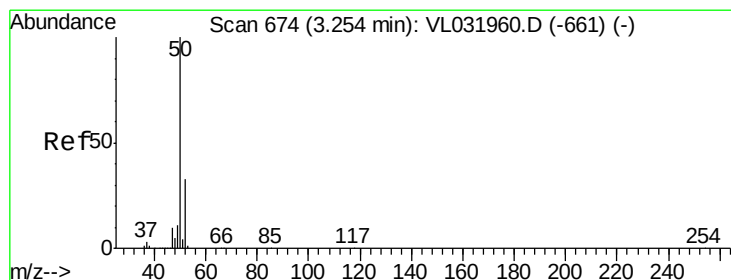
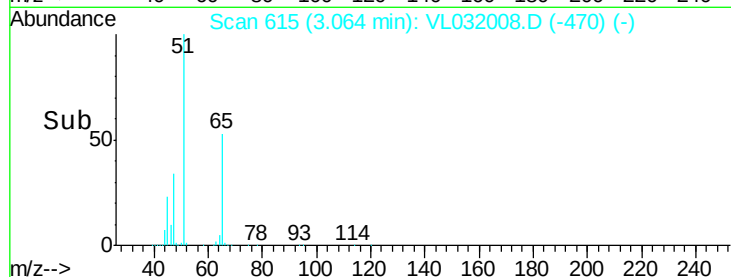
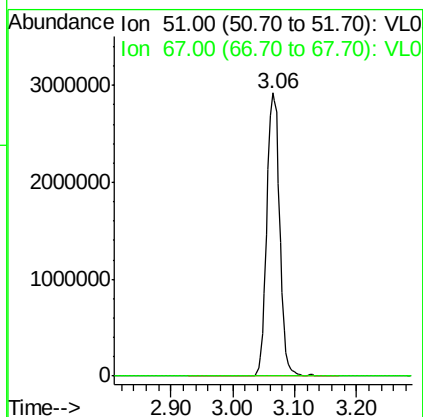
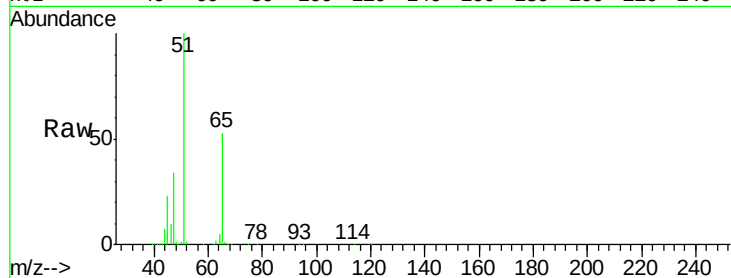
VZW1

Tgt Ion: 51 Resp: 4214393

Ion Ratio Lower Upper

51 100

67 0.2 15.9 23.9#



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032008.D

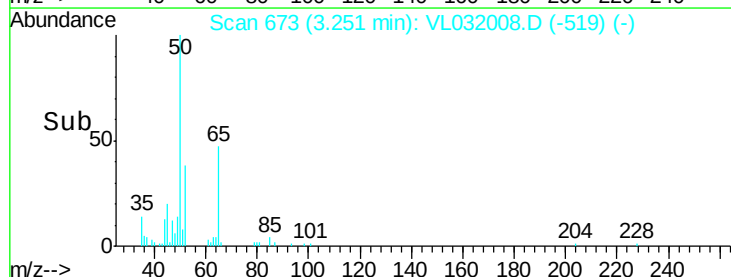
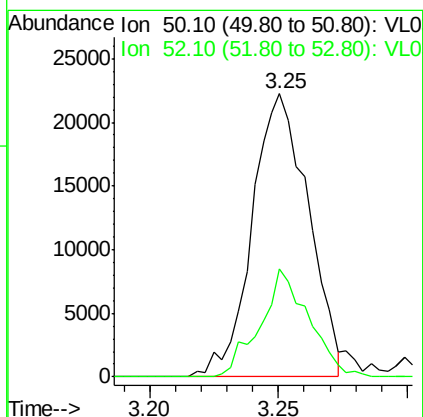
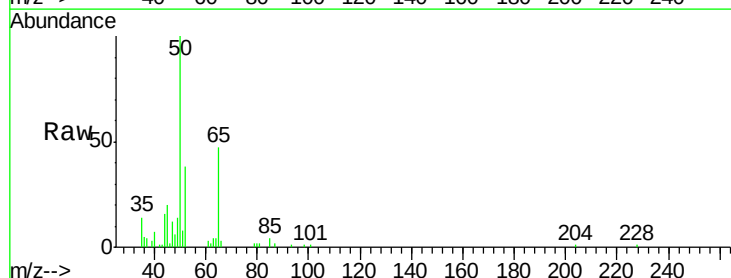
Acq: 16 May 2018 19:41

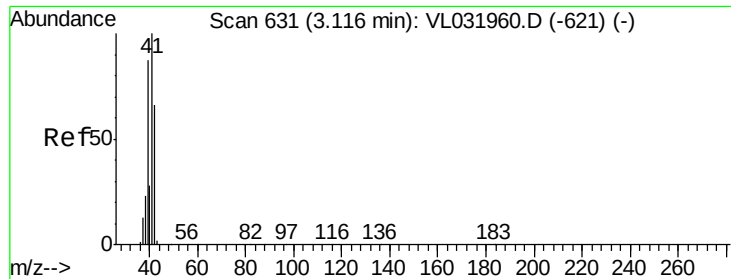
Tgt Ion: 50 Resp: 33846

Ion Ratio Lower Upper

50 100

52 38.1 26.6 39.8





#9

Propene

Concen: 0.57 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

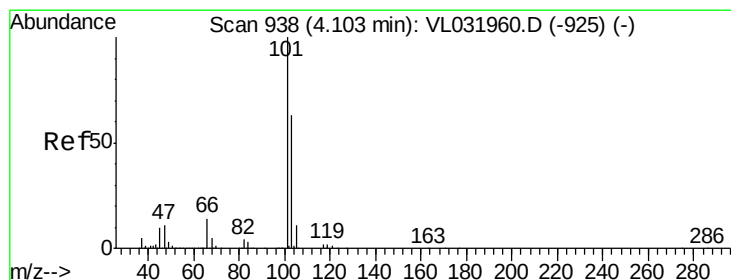
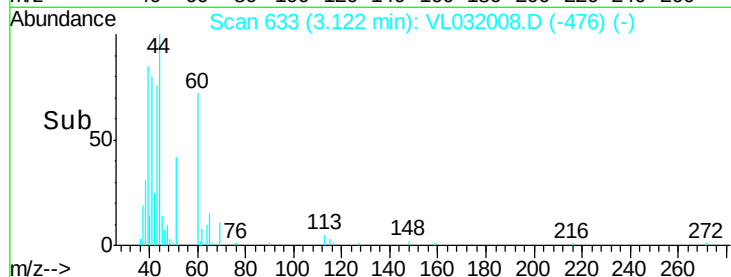
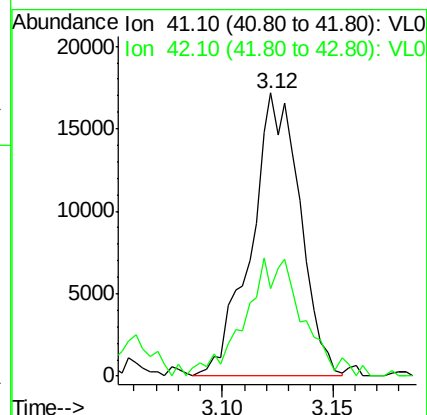
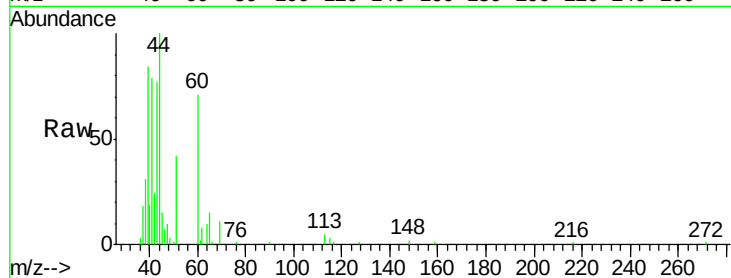
VZW1

Tgt Ion: 41 Resp: 26352

Ion Ratio Lower Upper

41 100

42 49.2 53.9 80.9#



#11

Trichlorofluoromethane

Concen: 0.11 ppbv

RT: 4.10 min Scan# 936

Delta R.T. -0.01 min

Lab File: VL032008.D

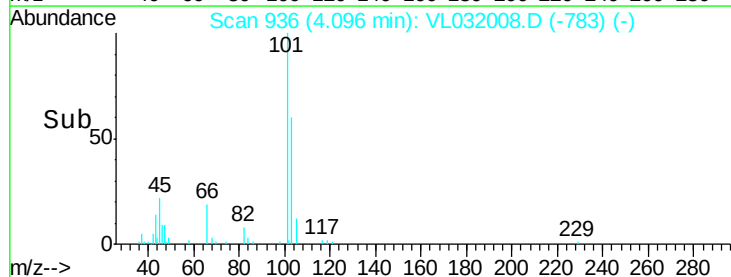
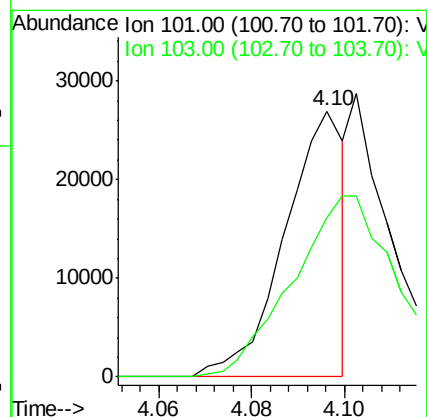
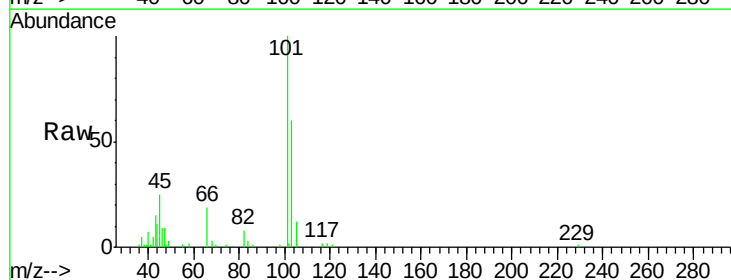
Acq: 16 May 2018 19:41

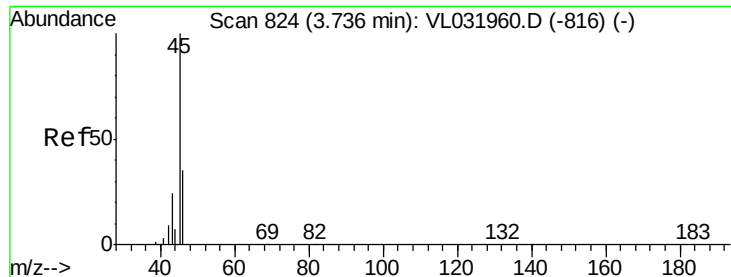
Tgt Ion: 101 Resp: 23981

Ion Ratio Lower Upper

101 100

103 59.9 50.7 76.1





#13

Ethanol

Concen: 79.63 ppbv

RT: 3.75 min Scan# 828

Delta R.T. 0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

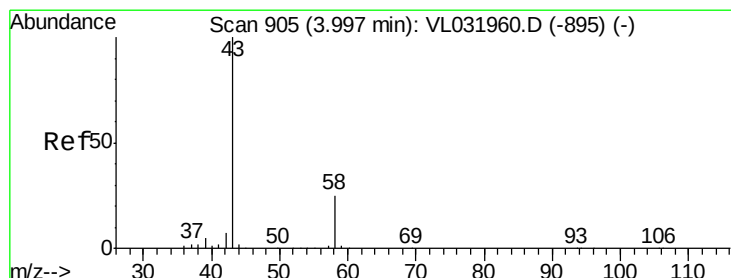
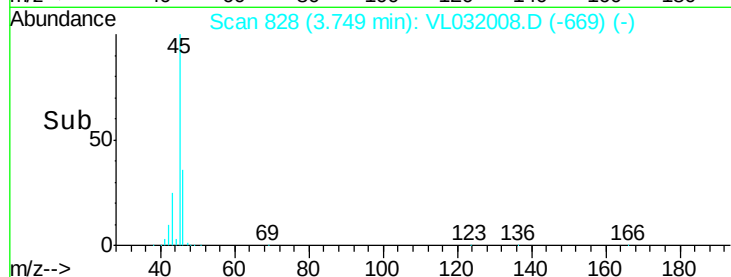
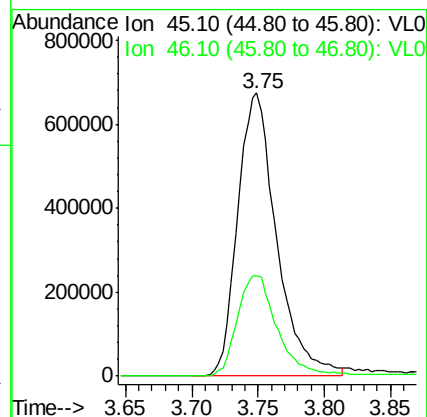
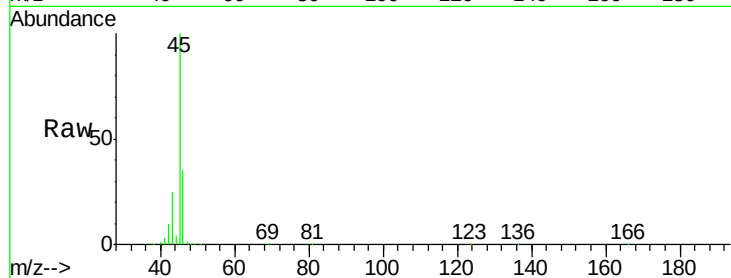
VZW1

Tgt Ion: 45 Resp: 1378463

Ion Ratio Lower Upper

45 100

46 36.9 0.0 0.0#



#15

Acetone

Concen: 7.48 ppbv

RT: 3.99 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL032008.D

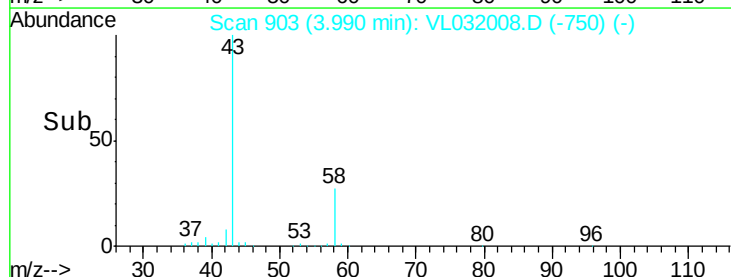
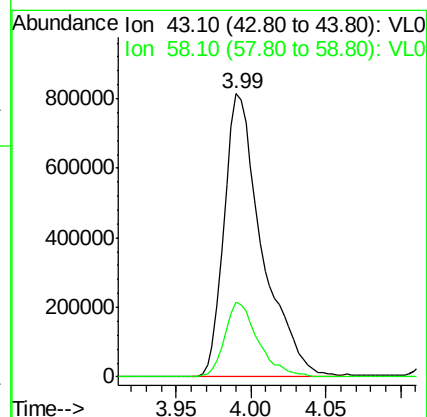
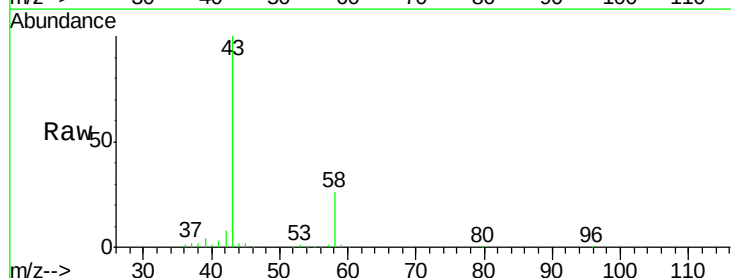
Acq: 16 May 2018 19:41

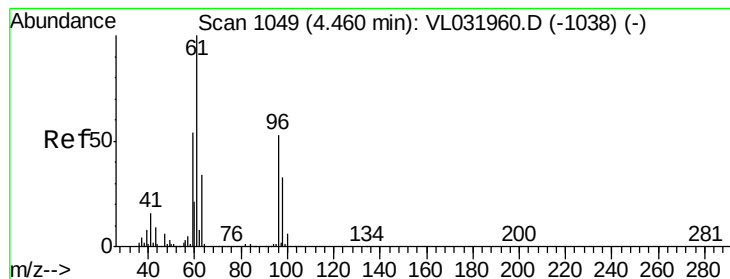
Tgt Ion: 43 Resp: 1420946

Ion Ratio Lower Upper

43 100

58 23.7 21.1 31.7





#17

tert-Butyl alcohol

Concen: 0.40 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. 0.02 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

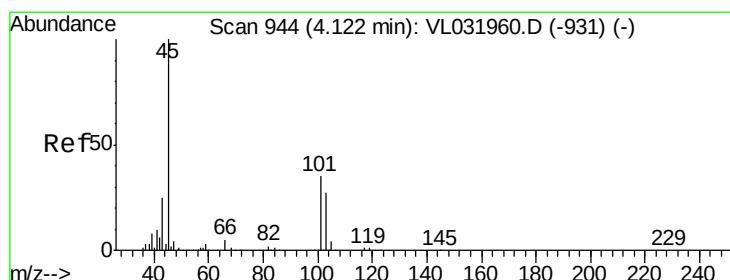
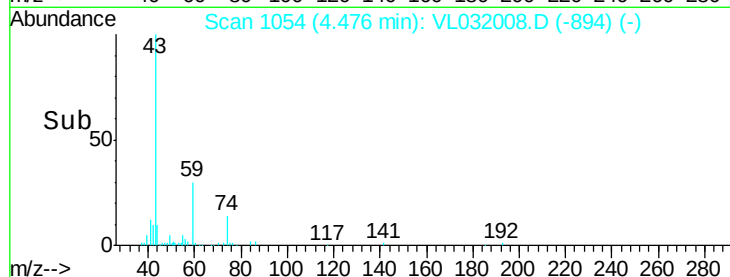
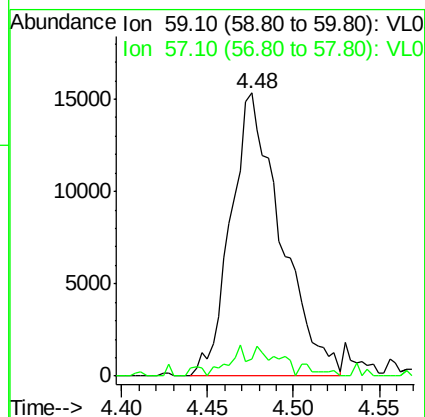
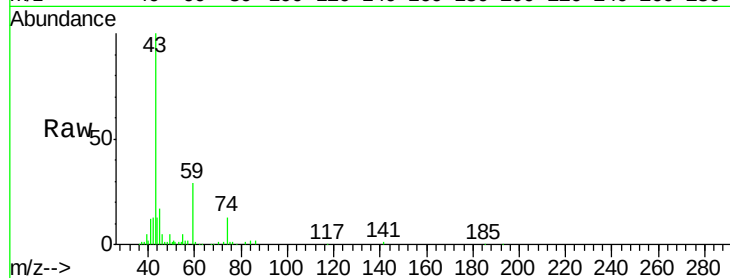
VZW1

Tgt Ion: 59 Resp: 31122

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 6.44 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.01 min

Lab File: VL032008.D

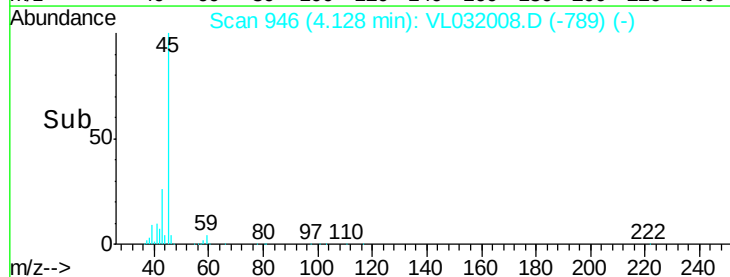
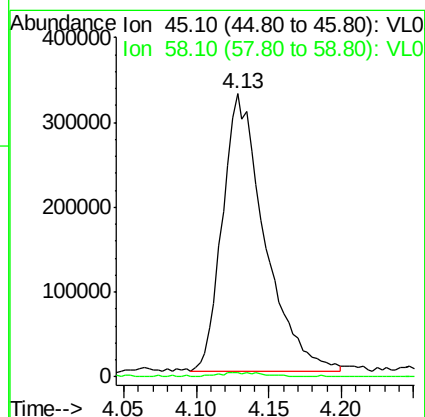
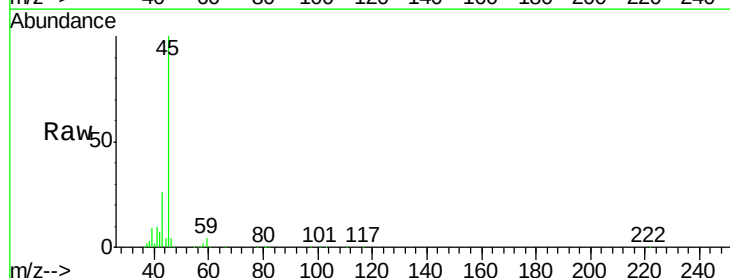
Acq: 16 May 2018 19:41

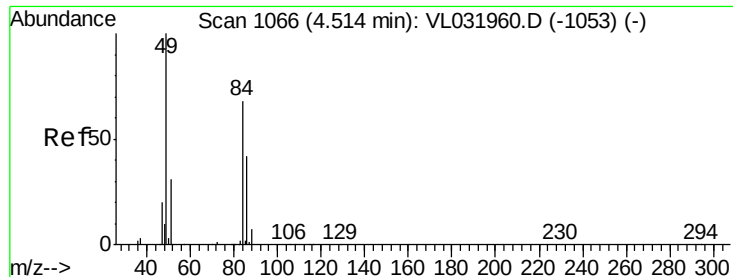
Tgt Ion: 45 Resp: 661362

Ion Ratio Lower Upper

45 100

58 1.6 1.4 2.2

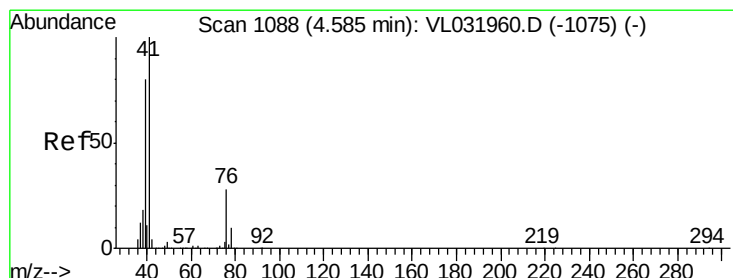
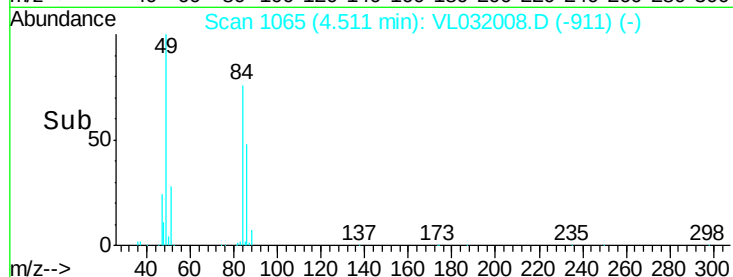
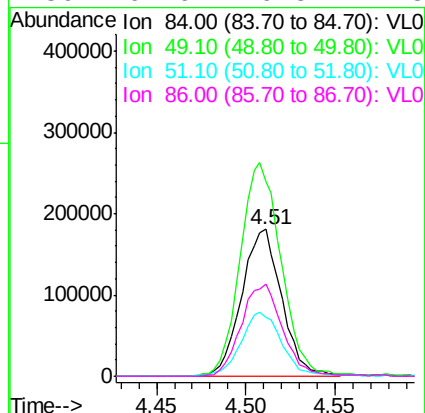
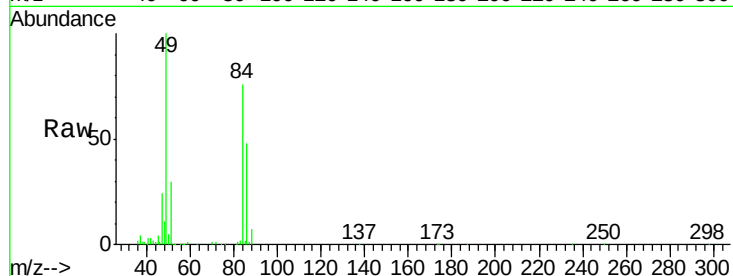




#20
Methylene Chloride
Concen: 4.39 ppbv
RT: 4.51 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

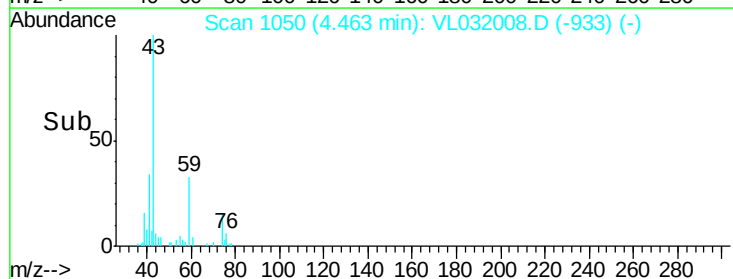
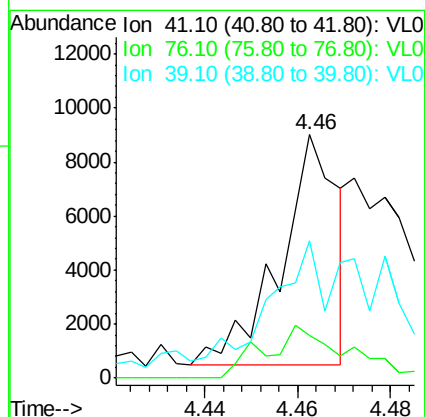
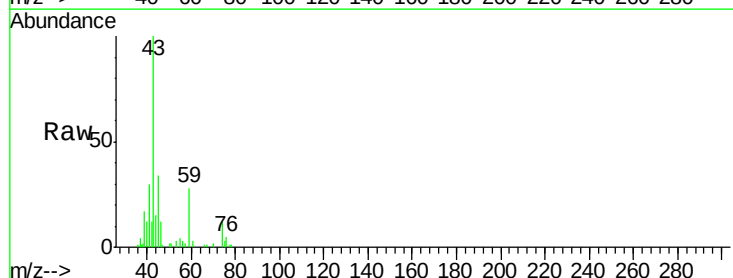
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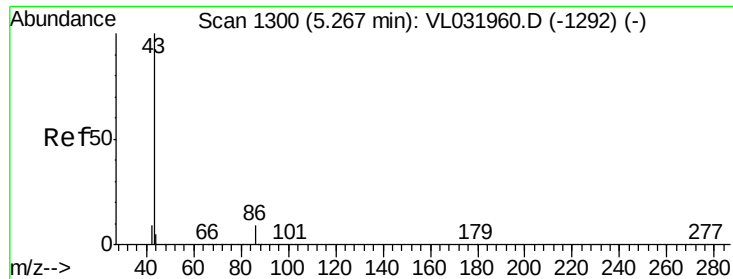
Tgt Ion:	84	Resp:	281596
Ion	Ratio	Lower	Upper
84	100		
49	131.7	118.6	178.0
51	39.7	36.6	54.8
86	62.6	49.8	74.8



#21
Allyl Chloride
Concen: 0.07 ppbv
RT: 4.46 min Scan# 1050
Delta R.T. -0.12 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion:	41	Resp:	7302
Ion	Ratio	Lower	Upper
41	100		
76	32.6	23.4	35.0
39	144.9	64.5	96.7#

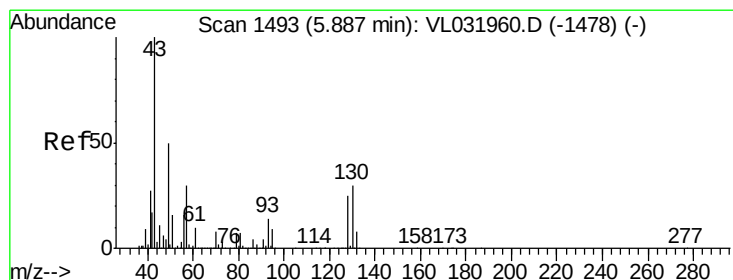
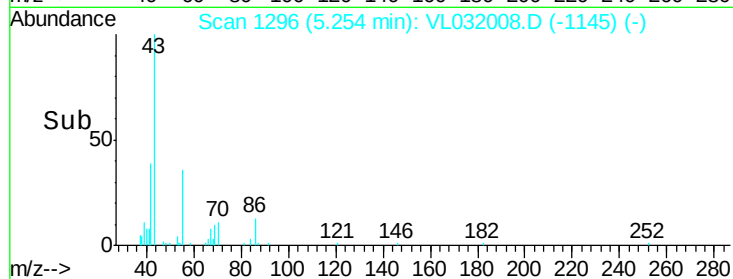
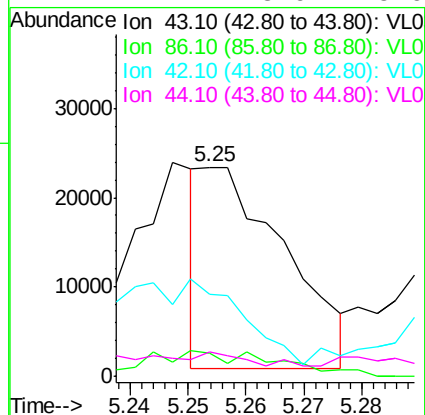
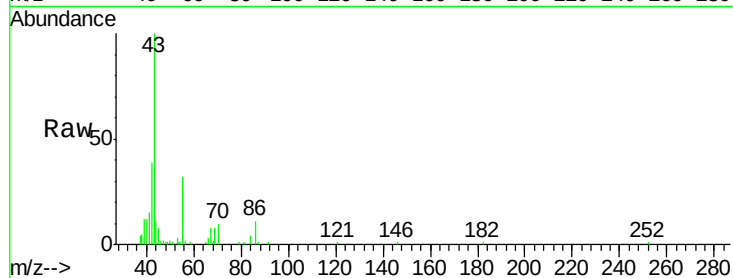




#23
 Vinyl Acetate
 Concen: 0.10 ppbv
 RT: 5.25 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

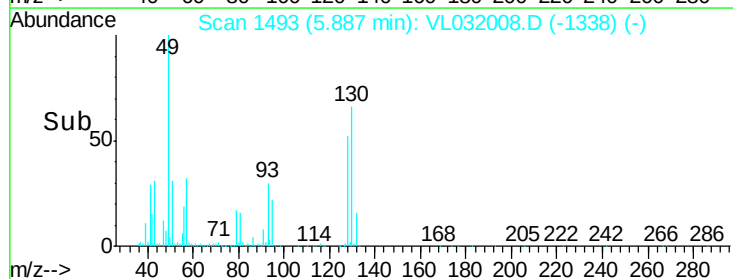
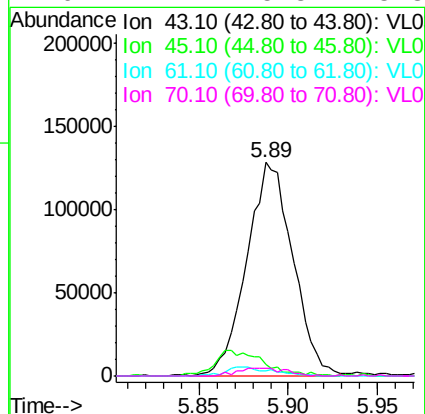
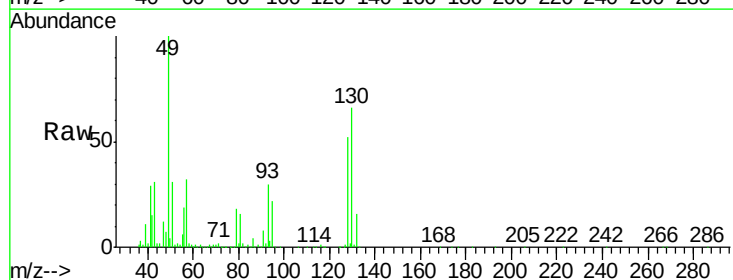
Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

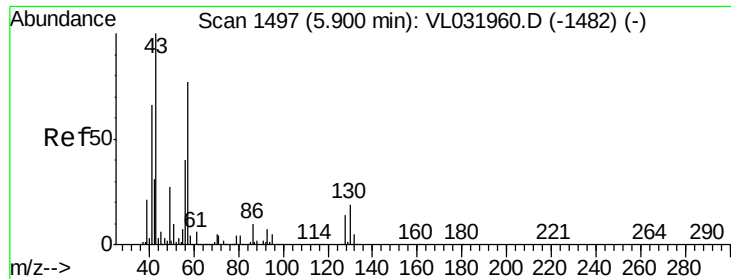
Tgt Ion:	43	Resp:	22506
Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.1	9.1#
42	41.9	8.0	12.0#
44	4.7	3.9	5.9



#25
 Ethyl Acetate
 Concen: 0.70 ppbv
 RT: 5.89 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion:	43	Resp:	230007
Ion	Ratio	Lower	Upper
43	100		
45	13.5	7.8	11.6#
61	4.4	7.4	11.2#
70	4.1	5.8	8.8#





#26

Hexane

Concen: 1.64 ppbv

RT: 5.89 min Scan# 1495

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

Tgt Ion: 57 Resp: 250935

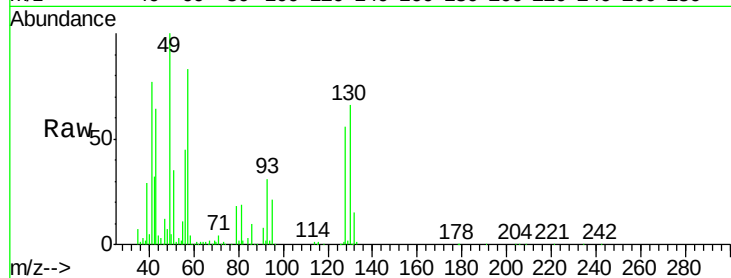
Ion Ratio Lower Upper

57 100

41 96.7 71.8 107.6

43 93.4 171.5 257.3#

56 58.0 41.4 62.2

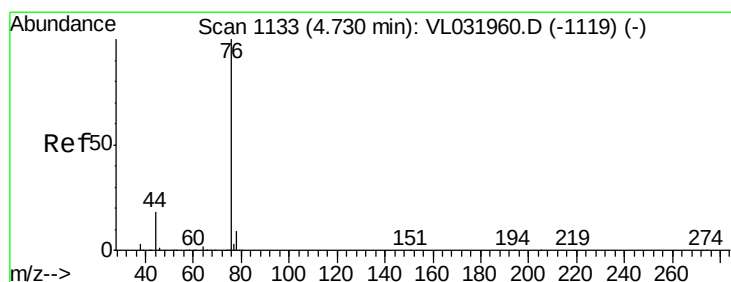
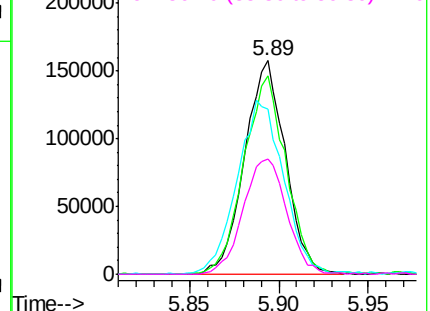
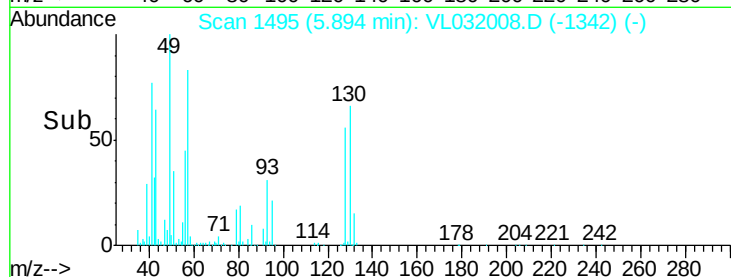


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.04 ppbv

RT: 4.73 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

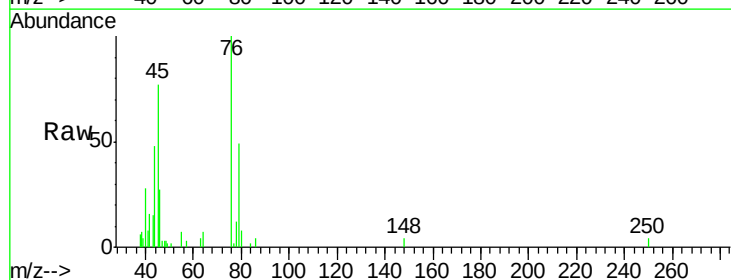
Tgt Ion: 76 Resp: 7272

Ion Ratio Lower Upper

76 100

44 136.5 15.4 23.0#

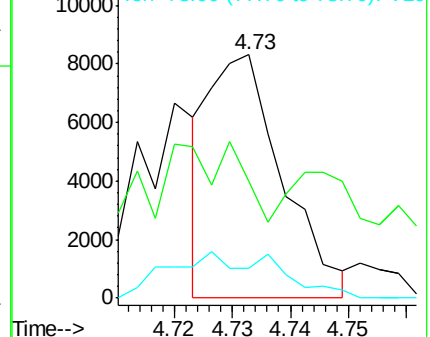
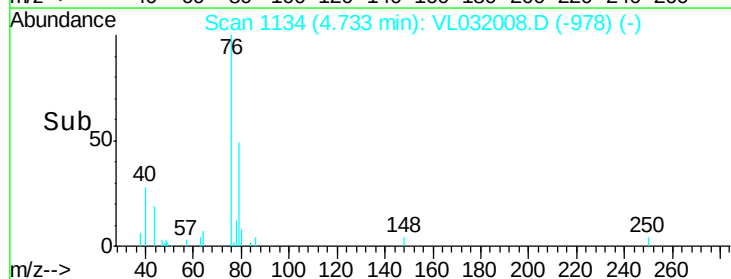
78 32.3 7.4 11.0#

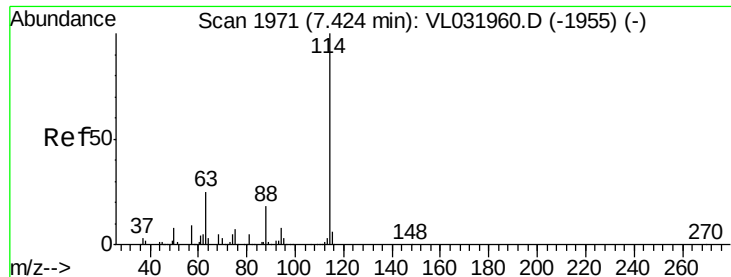


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.41 min Scan# 1967

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampled :

VZW1

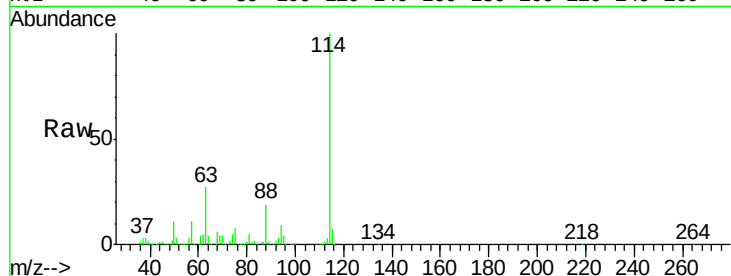
Tgt Ion:114 Resp: 2042795

Ion Ratio Lower Upper

114 100

63 26.7 20.8 31.2

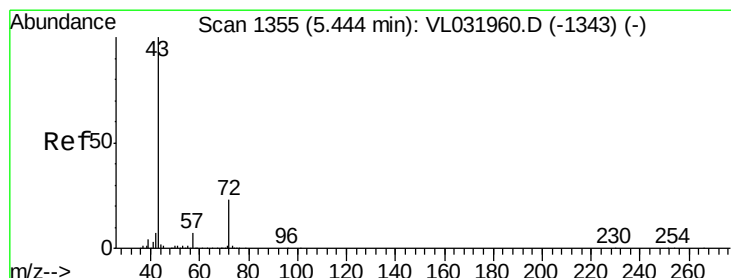
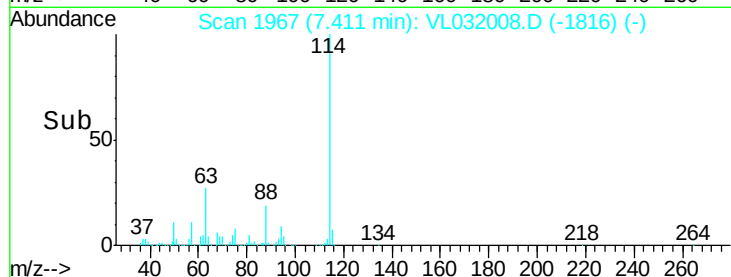
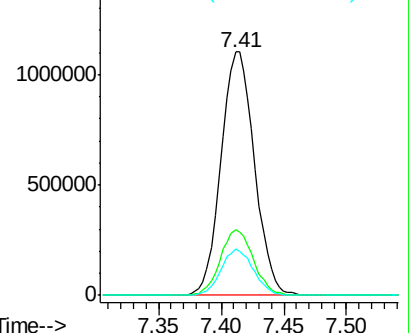
88 18.4 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.73 ppbv

RT: 5.44 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL032008.D

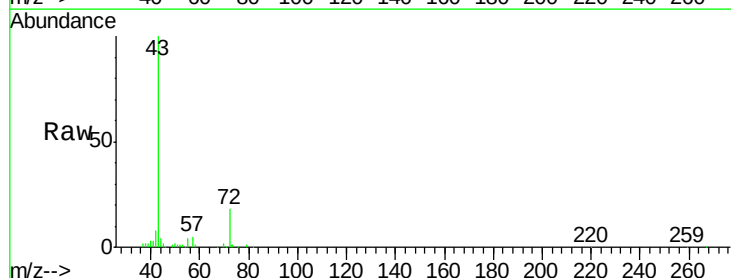
Acq: 16 May 2018 19:41

Tgt Ion: 43 Resp: 123281

Ion Ratio Lower Upper

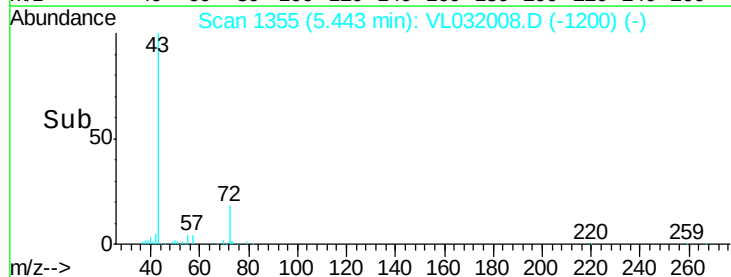
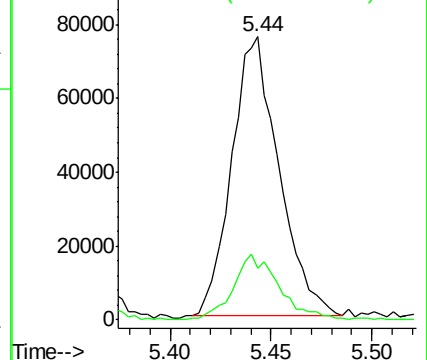
43 100

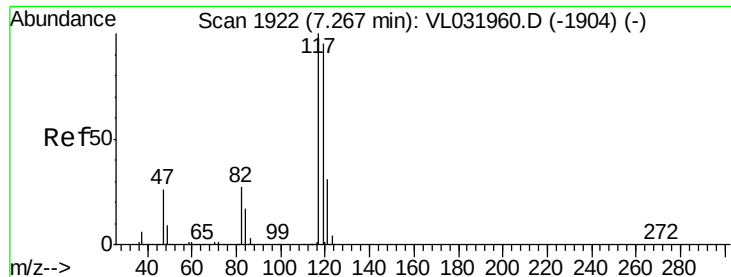
72 23.1 18.3 27.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 7.25 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

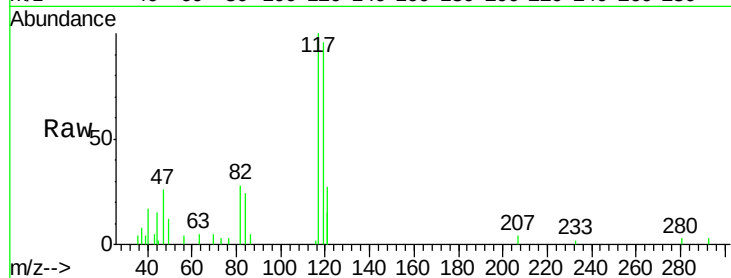
Tgt Ion:117 Resp: 11310

Ion Ratio Lower Upper

117 100

119 98.1 76.4 114.6

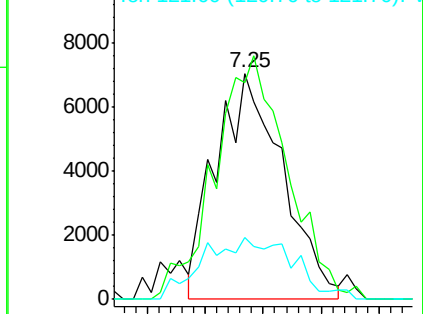
121 24.4 24.4 36.6



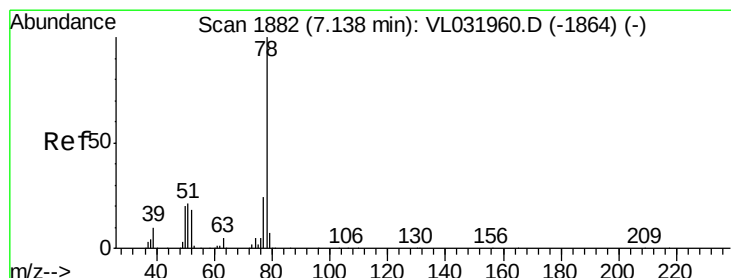
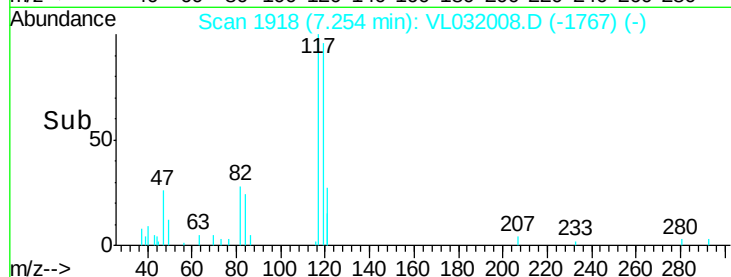
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



Time-->



#36

Benzene

Concen: 0.05 ppbv

RT: 7.12 min Scan# 1875

Delta R.T. -0.02 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

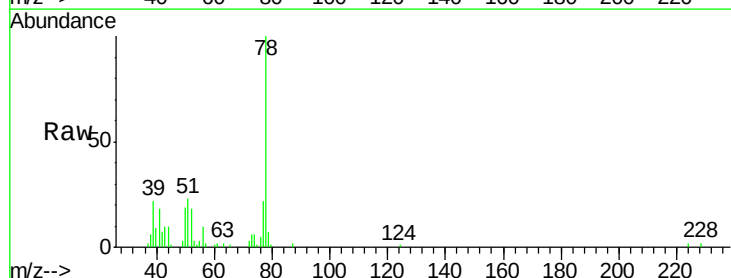
Tgt Ion: 78 Resp: 9830

Ion Ratio Lower Upper

78 100

77 23.1 19.2 28.8

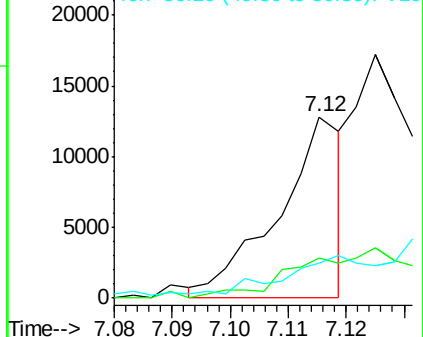
50 18.0 16.2 24.4



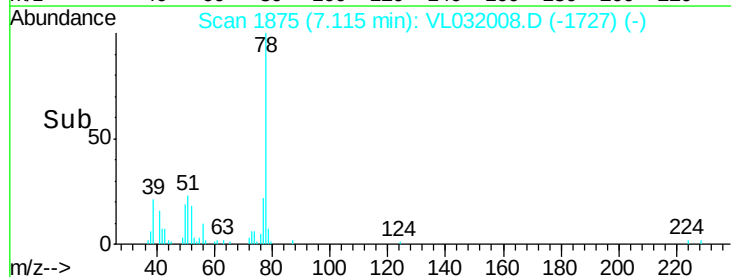
Abundance Ion 78.10 (77.80 to 78.80): VL0

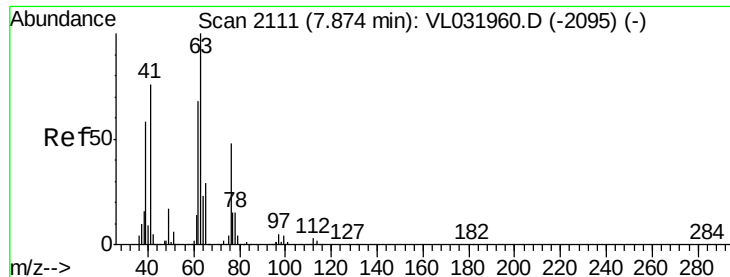
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



Time-->





#39

1,2-Dichloropropane

Concen: 8.05 ppbv

RT: 7.41 min Scan# 1967

Delta R.T. -0.46 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

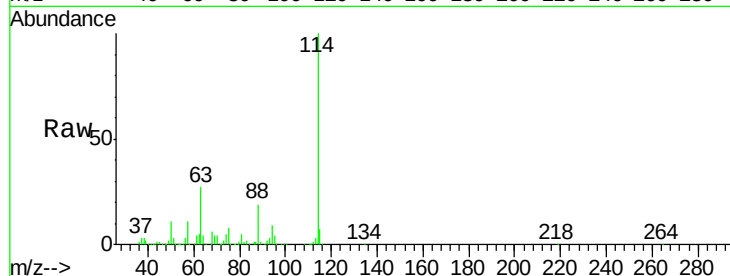
Tgt Ion: 63 Resp: 539254

Ion Ratio Lower Upper

63 100

41 0.0 60.7 91.1#

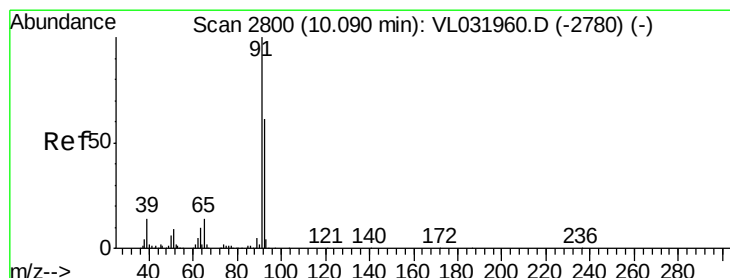
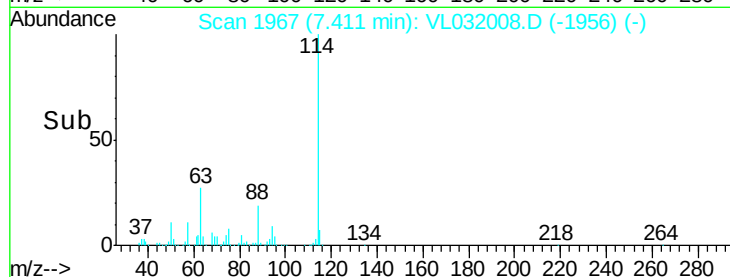
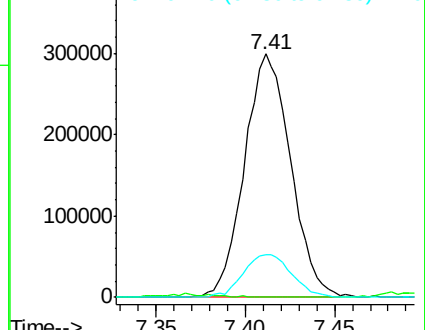
62 17.6 54.7 82.1#



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: 0.38 ppbv

RT: 10.08 min Scan# 2796

Delta R.T. -0.01 min

Lab File: VL032008.D

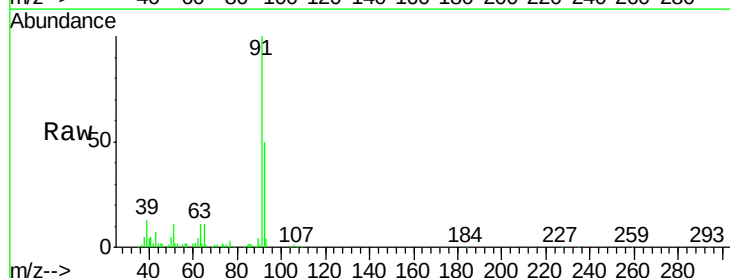
Acq: 16 May 2018 19:41

Tgt Ion: 91 Resp: 79129

Ion Ratio Lower Upper

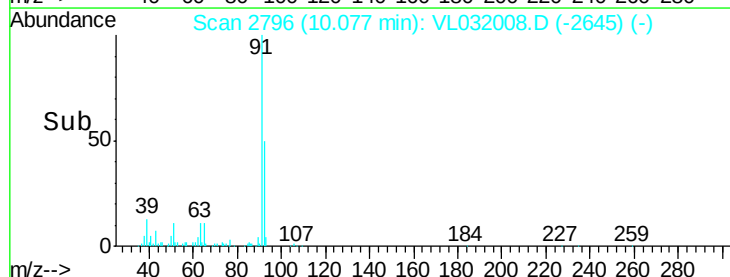
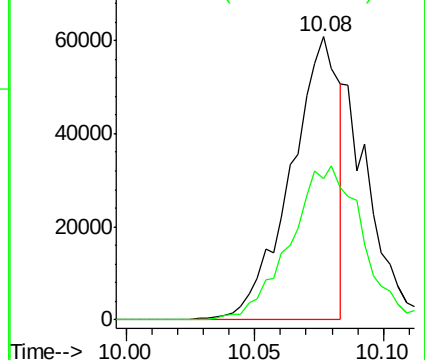
91 100

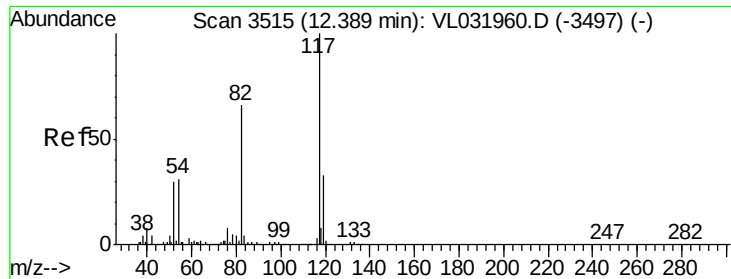
92 81.2 47.4 71.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

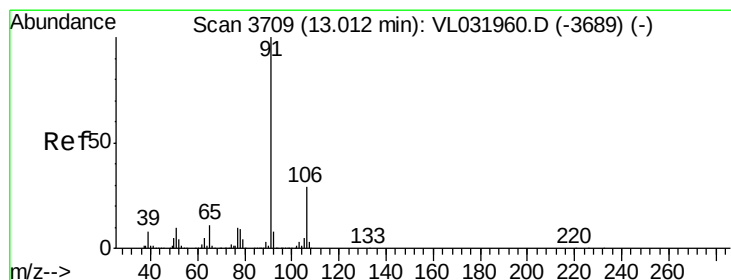
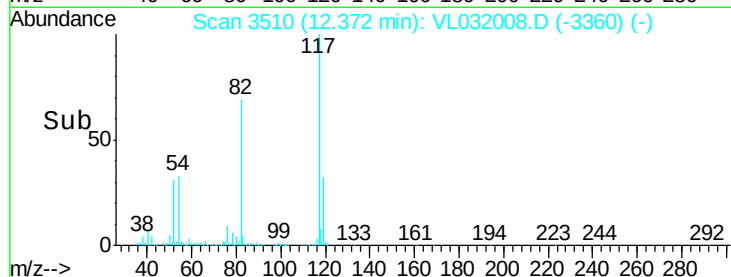
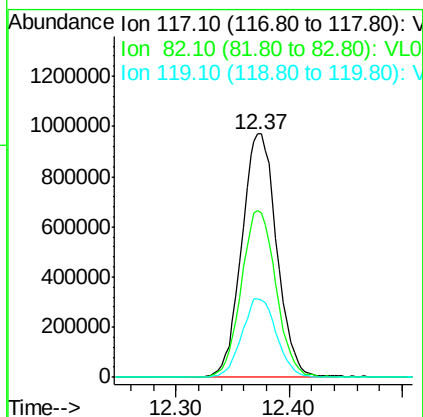
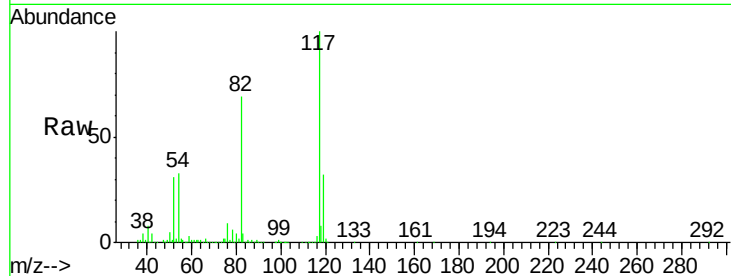




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. -0.02 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

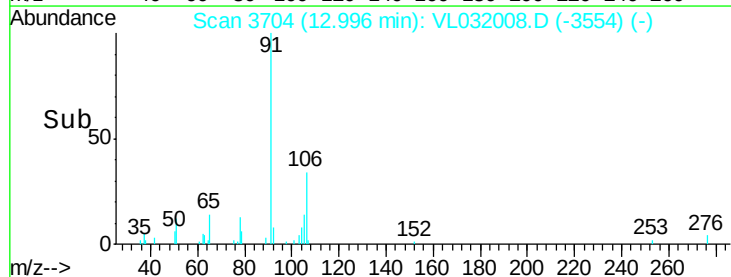
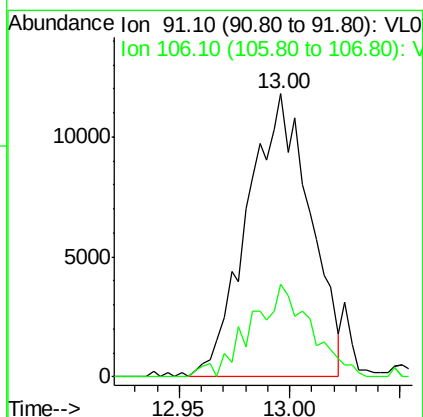
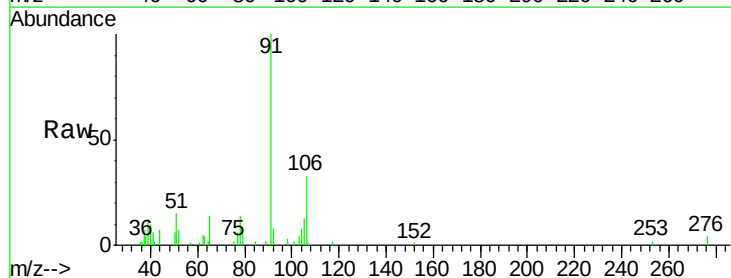
Instrument :
MSVOA_L
ClientSampleId :
VZW1

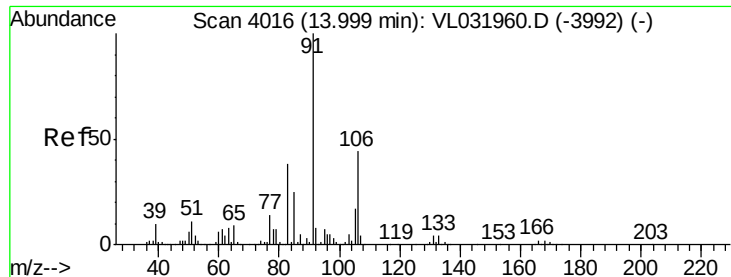
Tgt Ion: 117 Resp: 2087041
Ion Ratio Lower Upper
117 100
82 68.0 51.6 77.4
119 32.2 44.2 66.4#



#58
Ethyl Benzene
Concen: 0.08 ppbv
RT: 13.00 min Scan# 3704
Delta R.T. -0.02 min
Lab File: VL032008.D
Acq: 16 May 2018 19:41

Tgt Ion: 91 Resp: 23241
Ion Ratio Lower Upper
91 100
106 32.6 23.4 35.2





#60

o-Xylene

Concen: 0.08 ppbv

RT: 13.98 min Scan# 4011

Delta R.T. -0.02 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampled :

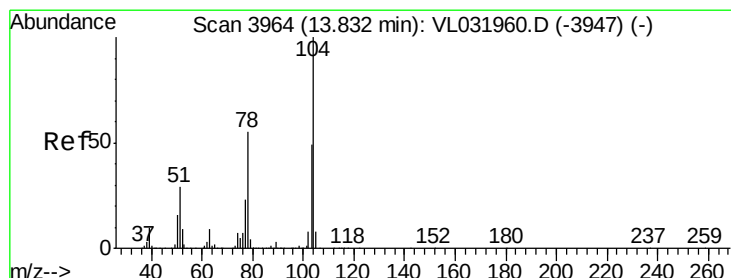
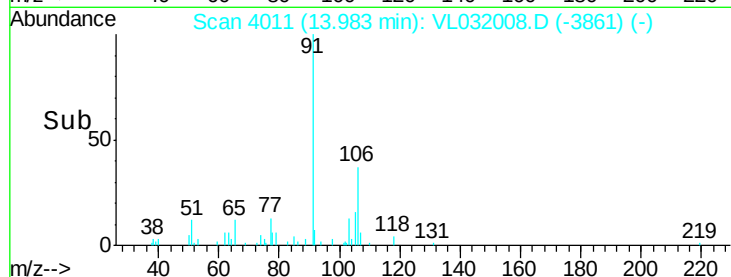
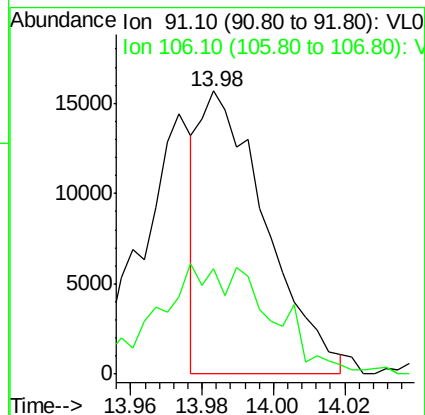
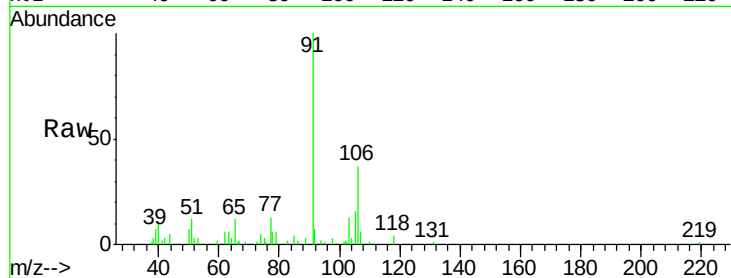
VZW1

Tgt Ion: 91 Resp: 20106

Ion Ratio Lower Upper

91 100

106 0.0 21.5 64.5#



#61

Styrene

Concen: 0.17 ppbv

RT: 13.82 min Scan# 3960

Delta R.T. -0.01 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

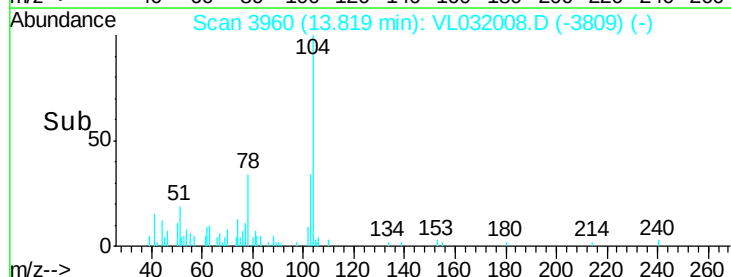
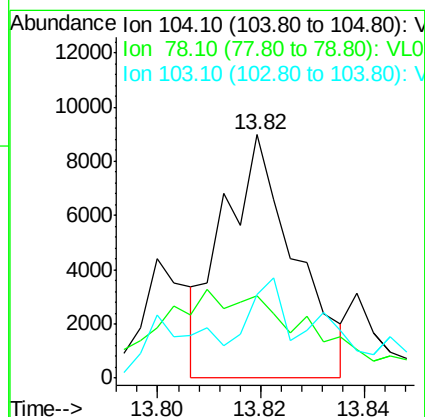
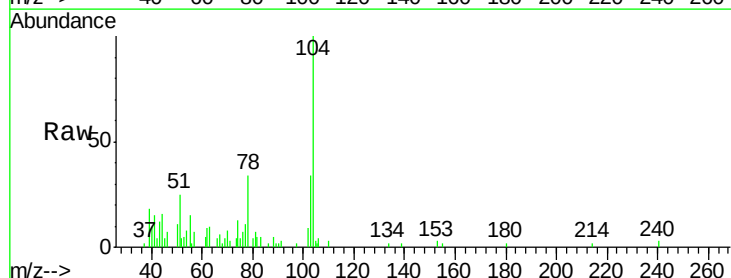
Tgt Ion: 104 Resp: 8605

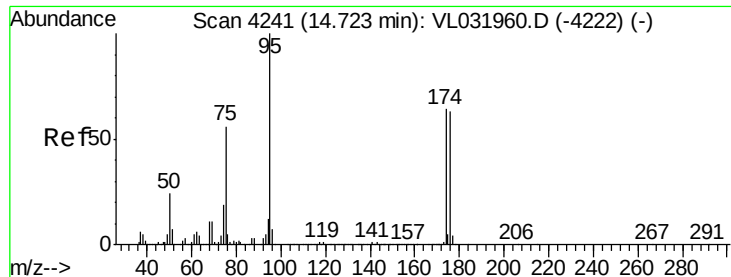
Ion Ratio Lower Upper

104 100

78 92.4 43.8 65.8#

103 76.9 38.4 57.6#

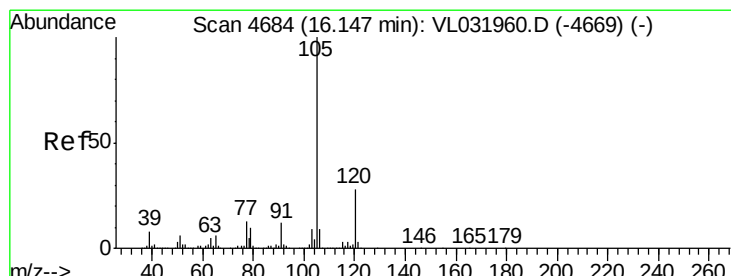
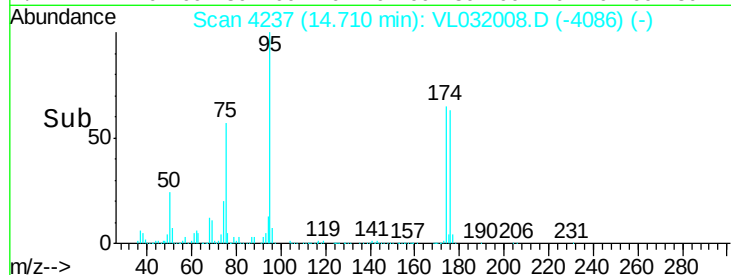
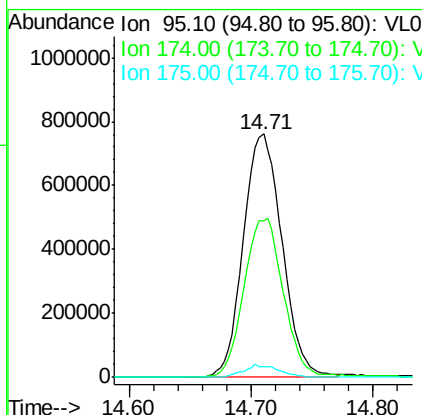
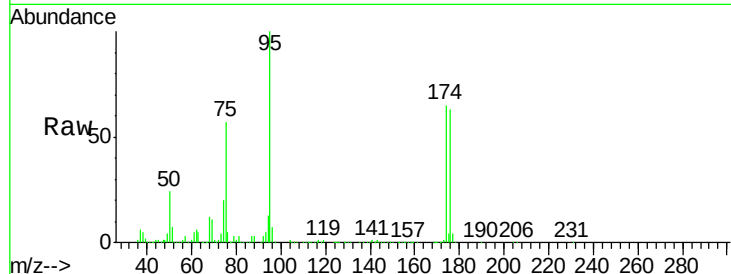




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.31 ppbv
 RT: 14.71 min Scan# 4237
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

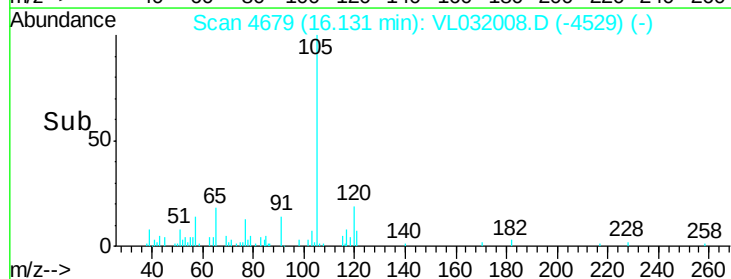
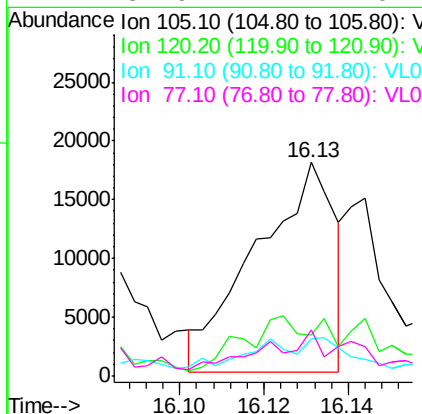
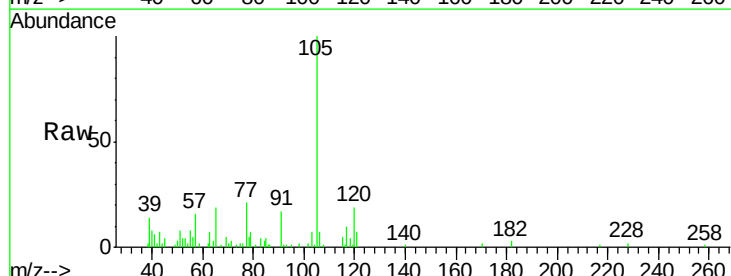
Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

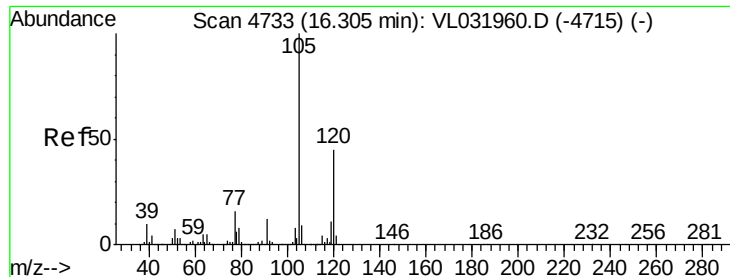
Tgt Ion: 95 Resp: 1669097
 Ion Ratio Lower Upper
 95 100
 174 67.3 53.0 79.6
 175 4.8 3.9 5.9



#72
 4-Ethyltoluene
 Concen: 0.09 ppbv
 RT: 16.13 min Scan# 4679
 Delta R.T. -0.02 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion: 105 Resp: 23041
 Ion Ratio Lower Upper
 105 100
 120 46.6 22.6 33.8#
 91 25.4 10.5 15.7#
 77 31.9 11.1 16.7#

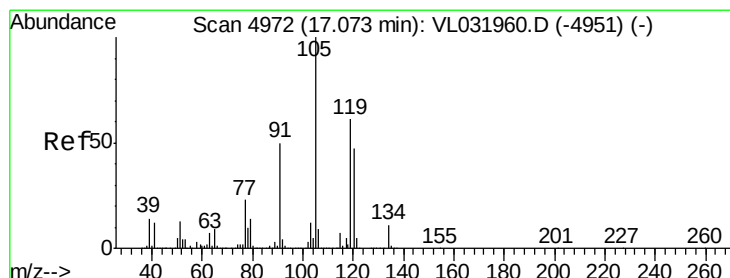
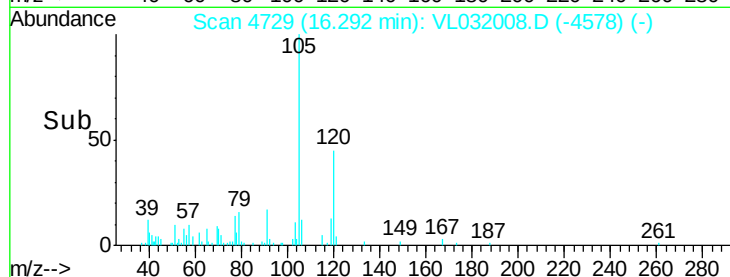
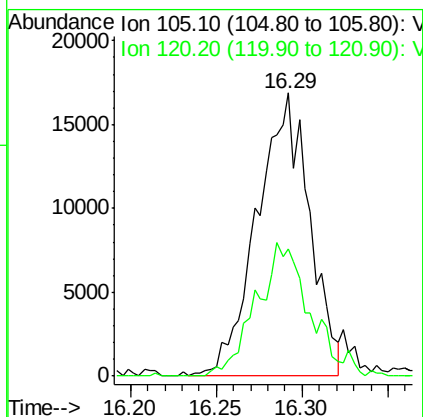
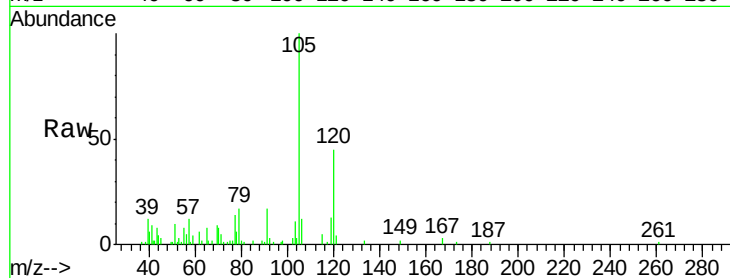




#73
 1,3,5-Trimethylbenzene
 Concen: 0.15 ppbv
 RT: 16.29 min Scan# 4729
 Delta R.T. -0.01 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

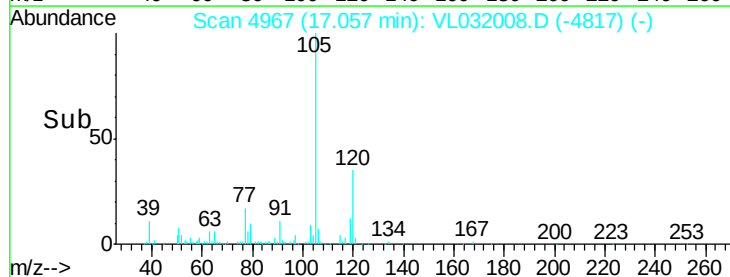
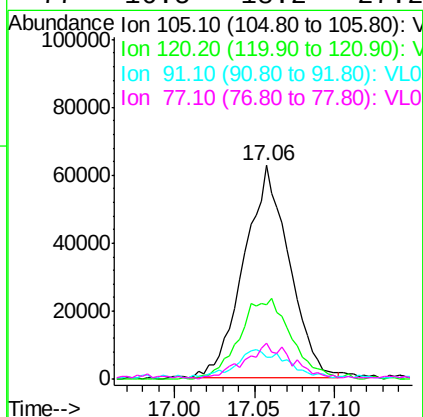
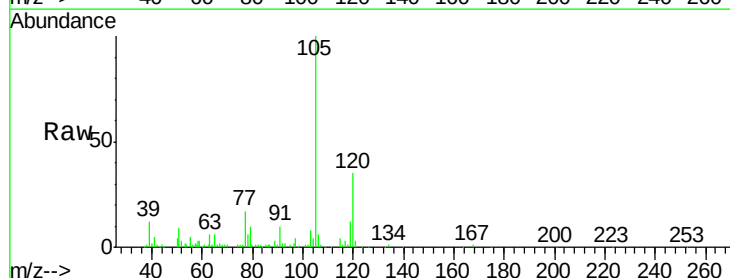
Instrument :
 MSVOA_L
 ClientSampleId :
 VZW1

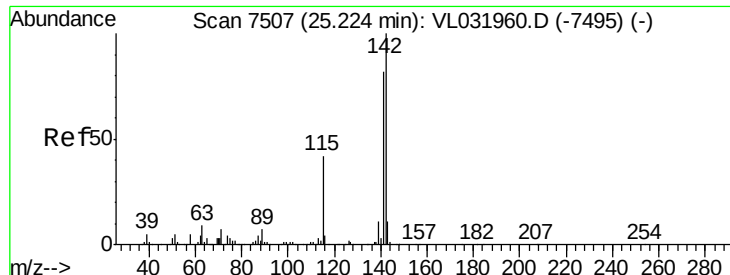
Tgt Ion:105 Resp: 35814
 Ion Ratio Lower Upper
 105 100
 120 45.1 36.0 54.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.46 ppbv
 RT: 17.06 min Scan# 4967
 Delta R.T. -0.02 min
 Lab File: VL032008.D
 Acq: 16 May 2018 19:41

Tgt Ion:105 Resp: 120312
 Ion Ratio Lower Upper
 105 100
 120 35.2 37.8 56.6#
 91 9.9 40.5 60.7#
 77 16.5 18.2 27.2#





#80

Naphthalene, 2-methyl-

Concen: 0.04 ppbv

RT: 25.22 min Scan# 7506

Delta R.T. -0.00 min

Lab File: VL032008.D

Acq: 16 May 2018 19:41

Instrument :

MSVOA_L

ClientSampleId :

VZW1

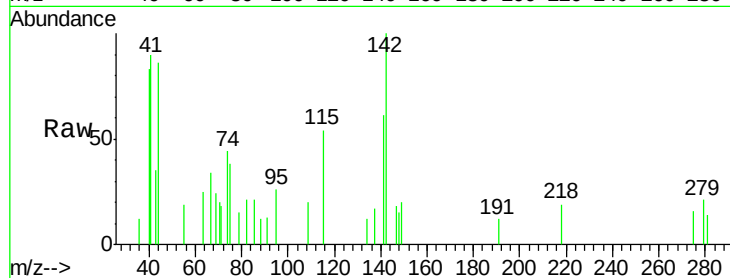
Tgt Ion:142 Resp: 1944

Ion Ratio Lower Upper

142 100

141 102.7 67.9 101.9#

115 65.2 33.8 50.8#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

