

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033937.D
 Acq On : 24 Jun 2019 15:18
 Operator : SY/AP
 Sample : K3481-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2

Quant Time: Jun 25 03:38:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	892876	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	2206338	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2379090	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	1969814	10.08	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds

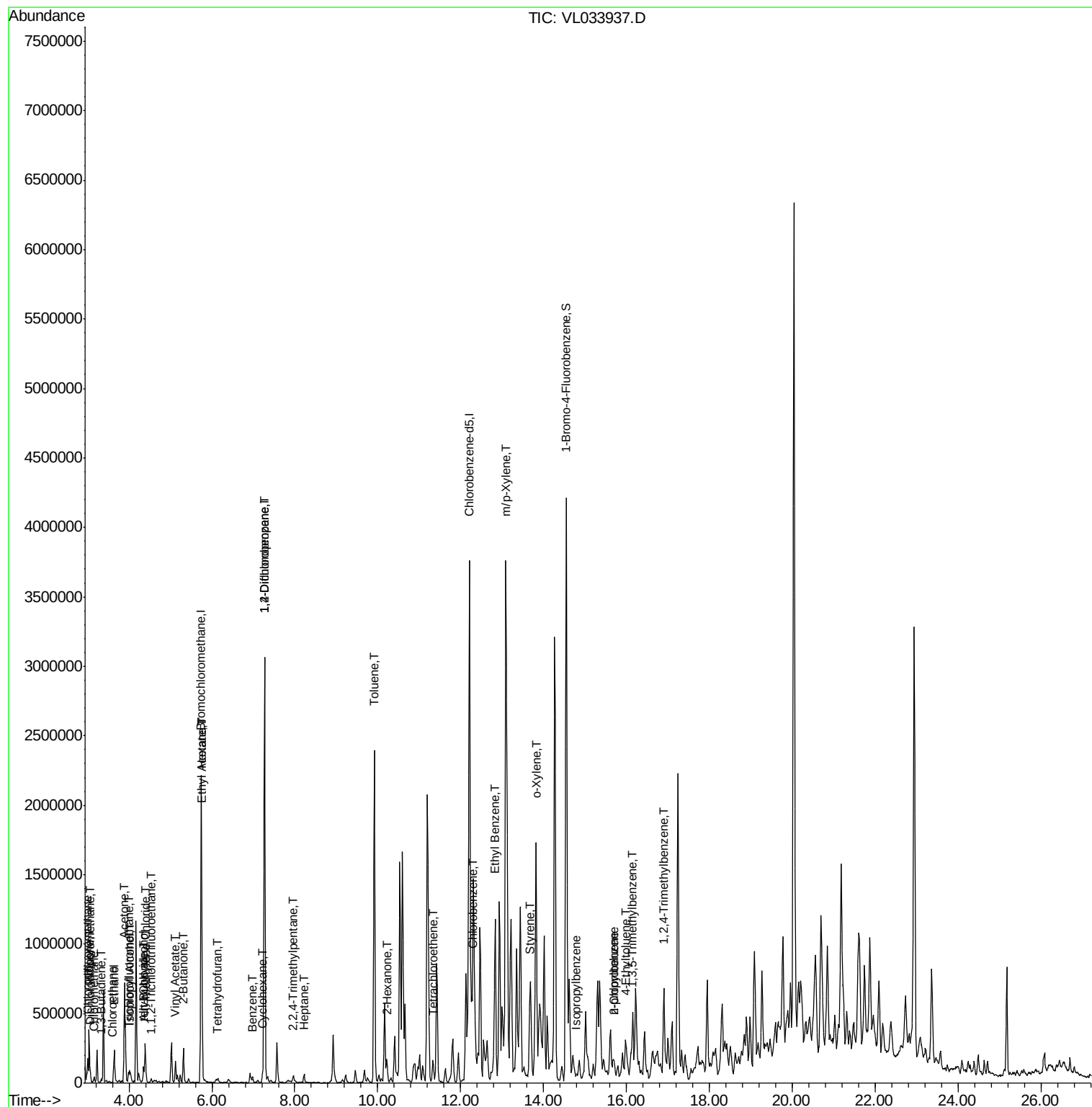
					Ovalue
2) Dichlorodifluoromethane	3.07	85	49193	0.340	ppbv 97
3) Chlorodifluoromethane	3.00	51	177324	1.687	ppbv # 88
4) Chloromethane	3.16	50	34235	0.571	ppbv 99
7) Chloroethane	3.59	64	944	0.043	ppbv 100
9) Propene	3.04	41	69258	1.761	ppbv # 66
10) Heptane	8.22	43	16931	0.170	ppbv # 83
11) Trichlorofluoromethane	3.99	101	43589	0.233	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.53	101	7244	0.057	ppbv # 78
13) Ethanol	3.64	45	243854	19.056	ppbv 98
15) Acetone	3.89	43	767946	5.897	ppbv 97
16) 1,3-Butadiene	3.33	39	6074	0.123	ppbv # 6
17) tert-Butyl alcohol	4.35	59	69370	0.681	ppbv 98
19) Isopropyl Alcohol	4.02	45	85778	1.153	ppbv # 1
20) Methylene Chloride	4.40	84	97110	1.912	ppbv 89
21) Allyl Chloride	4.35	41	30912	0.418	ppbv # 82
23) Vinyl Acetate	5.12	43	38339	0.253	ppbv # 1
25) Ethyl Acetate	5.76	43	139101	0.701	ppbv # 81
26) Hexane	5.76	57	189818	2.102	ppbv # 41
30) Cyclohexane	7.21	84	5228	0.082	ppbv # 1
34) 2-Butanone	5.31	43	247307	1.987	ppbv 99
36) Benzene	6.98	78	30467	0.181	ppbv # 89
39) 1,2-Dichloropropane	7.27	63	552182	8.489	ppbv # 25
41) Tetrahydrofuran	6.14	42	12289	0.195	ppbv # 85
44) 2,2,4-Trimethylpentane	7.96	57	19530	0.065	ppbv # 10
51) 2-Hexanone	10.22	43	66013	0.455	ppbv # 34
52) Tetrachloroethene	11.34	164	3480	0.059	ppbv # 82
53) Toluene	9.92	91	1874086	10.048	ppbv 100
57) Chlorobenzene	12.27	112	21604	0.121	ppbv # 23
58) Ethyl Benzene	12.83	91	982320	3.662	ppbv 99
59) m/p-Xylene	13.09	91	3826752	15.689	ppbv 97
60) o-Xylene	13.82	91	1315884	5.225	ppbv 99
61) Styrene	13.66	104	7020	0.043	ppbv # 1
62) Isopropylbenzene	14.79	105	14749	0.043	ppbv # 88
64) n-propylbenzene	15.69	120	7646	0.088	ppbv # 8
71) 2-Chlorotoluene	15.70	91	21413	0.086	ppbv 68
72) 4-Ethyltoluene	15.97	105	44924	0.157	ppbv # 86
73) 1,3,5-Trimethylbenzene	16.13	105	34045	0.121	ppbv 89
74) 1,2,4-Trimethylbenzene	16.89	105	173020	0.532	ppbv # 78

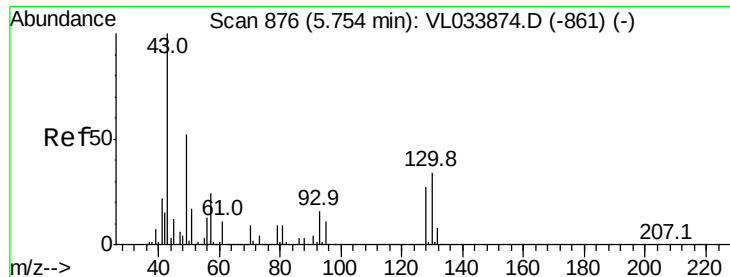
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

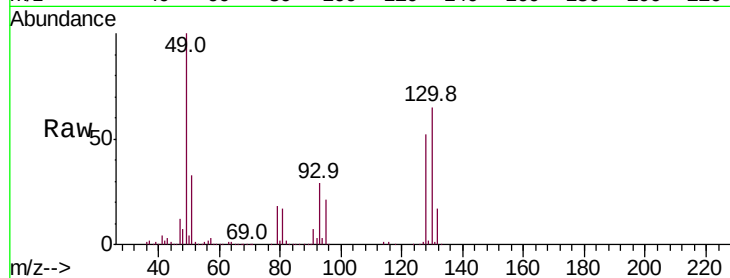
Tot Ion: 49 Resp: 892876

Ion Ratio Lower Upper

49 100

128 52.3 25.5 76.5

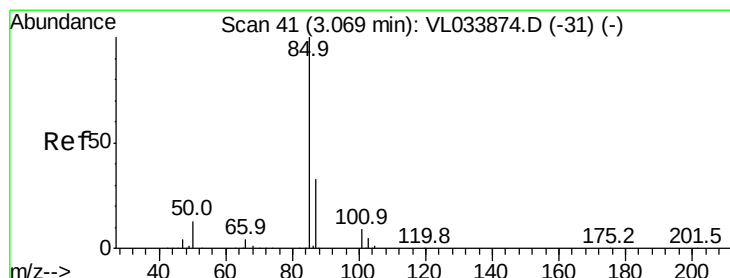
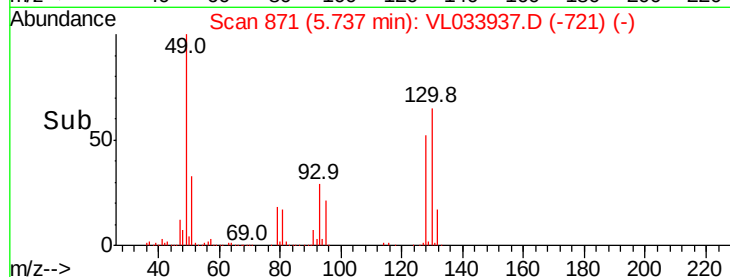
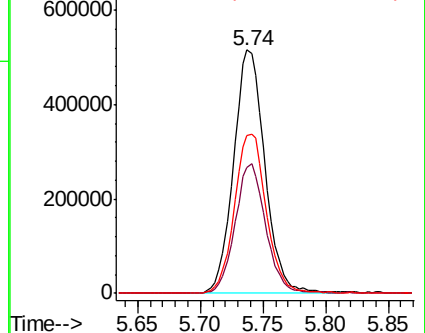
130 67.4 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.340 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033937.D

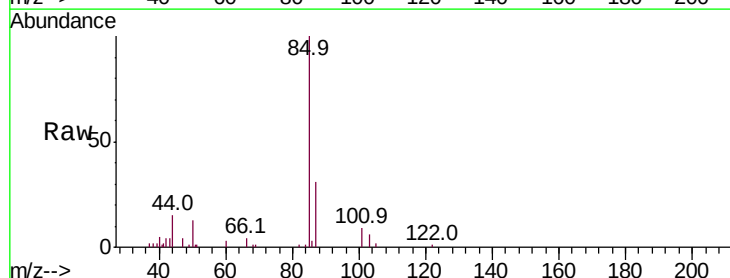
Acq: 24 Jun 2019 15:18

Tgt Ion: 85 Resp: 49193

Ion Ratio Lower Upper

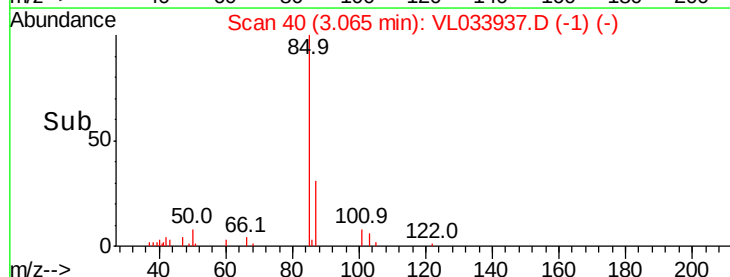
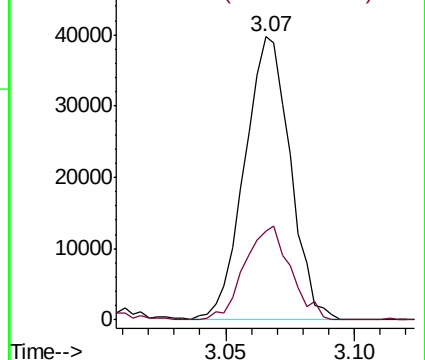
85 100

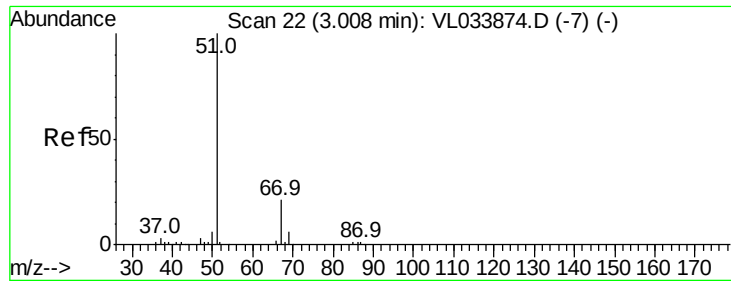
87 31.4 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

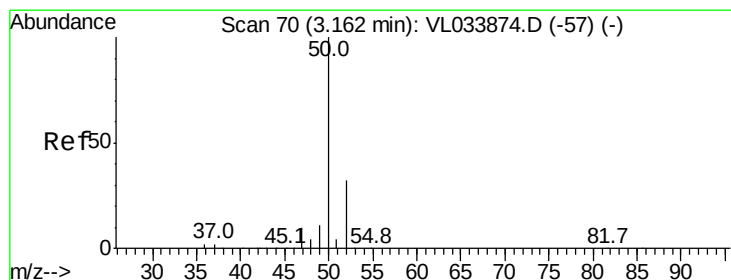
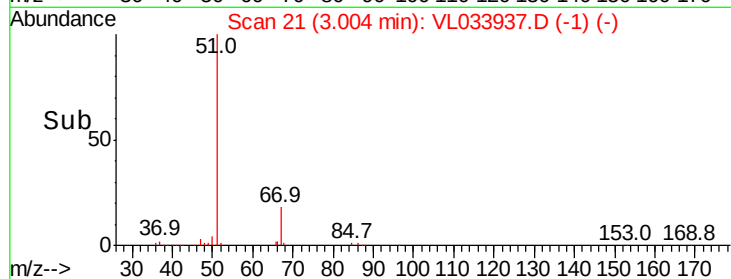
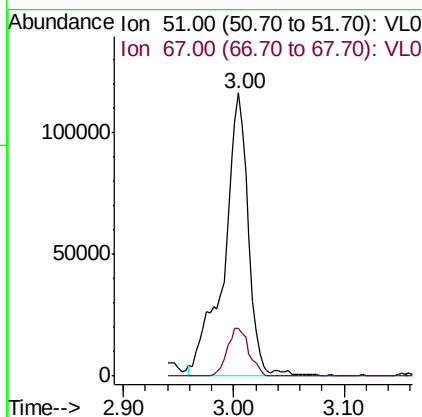
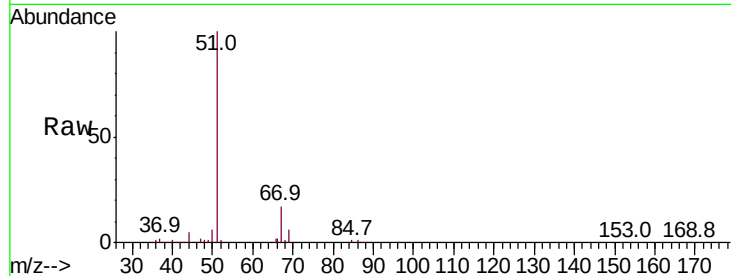




#3
 Chlorodifluoromethane
 Concen: 1.687 ppbv
 RT: 3.00 min Scan# 21
 Delta R.T. -0.00 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

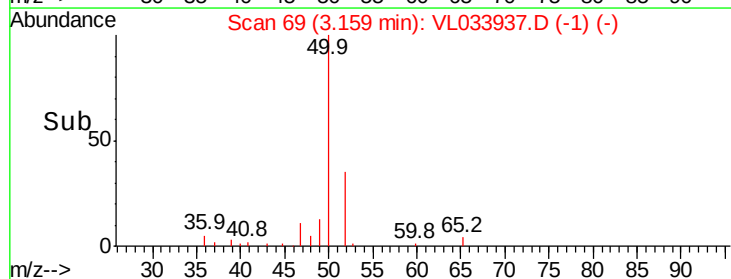
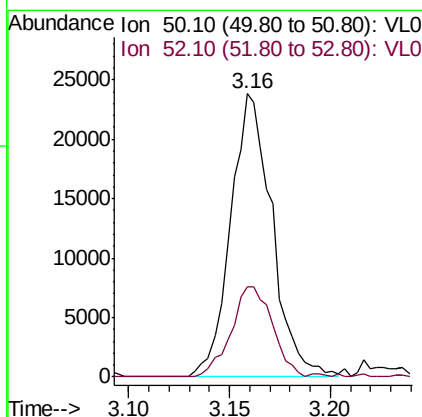
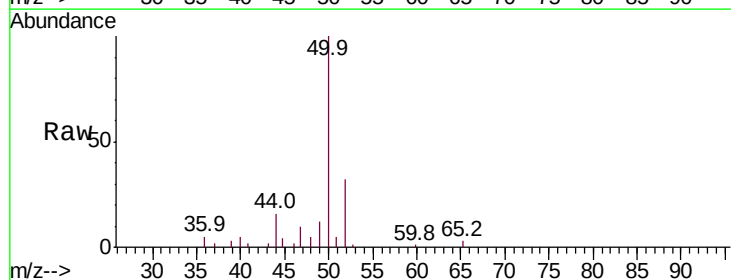
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2

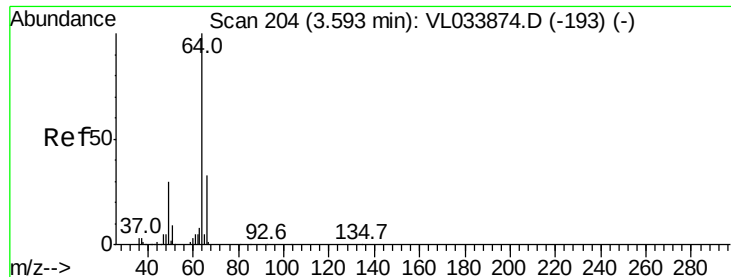
Tot Ion: 51 Resp: 177324
 Ion Ratio Lower Upper
 51 100
 67 15.1 16.4 24.6#



#4
 Chloromethane
 Concen: 0.571 ppbv
 RT: 3.16 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

Tgt Ion: 50 Resp: 34235
 Ion Ratio Lower Upper
 50 100
 52 32.4 25.4 38.0





#7

Chloroethane

Concen: 0.043 ppbv

RT: 3.59 min Scan# 202

Delta R.T. -0.01 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

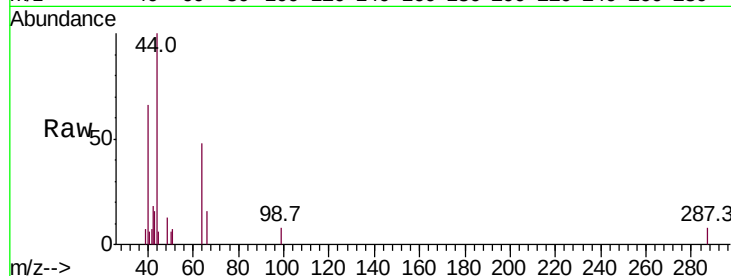
TZC-SSDS-AREA-B-2

Tot Ion: 64 Resp: 944

Ion Ratio Lower Upper

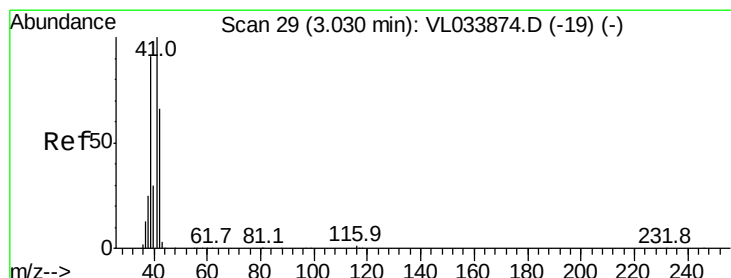
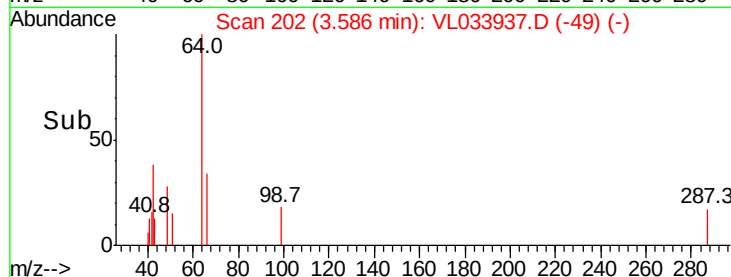
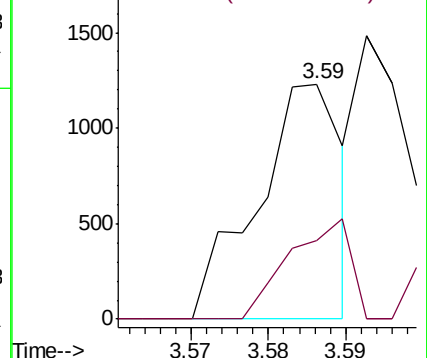
64 100

66 33.6 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.761 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033937.D

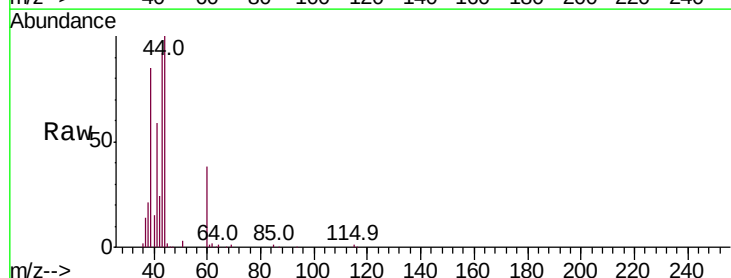
Acq: 24 Jun 2019 15:18

Tgt Ion: 41 Resp: 69258

Ion Ratio Lower Upper

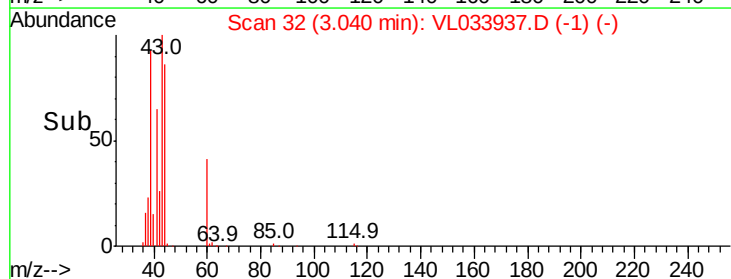
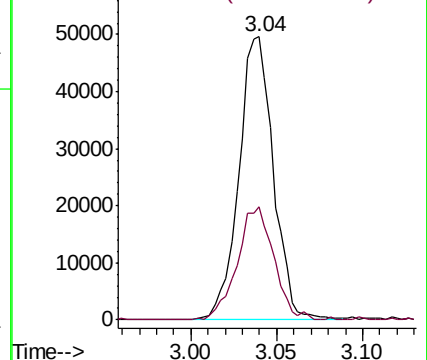
41 100

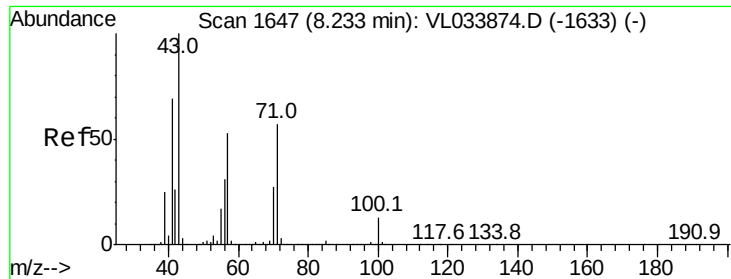
42 42.6 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

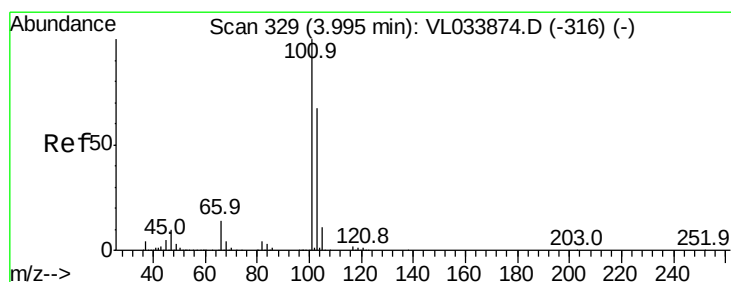
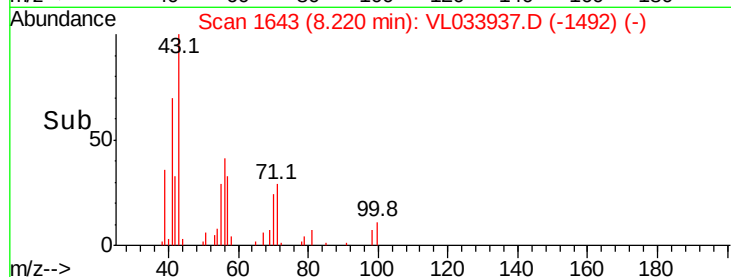
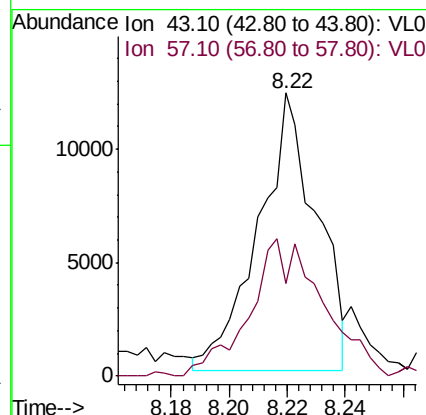
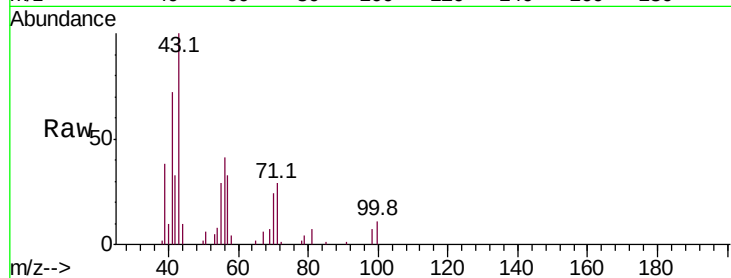




#10
 Heptane
 Concen: 0.170 ppbv
 RT: 8.22 min Scan# 1643
 Delta R.T. -0.01 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

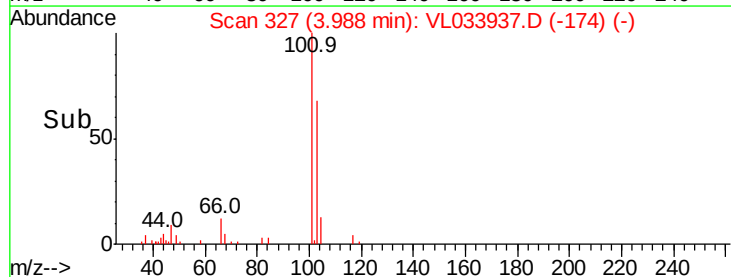
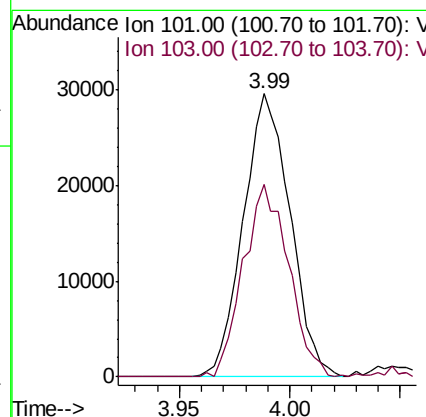
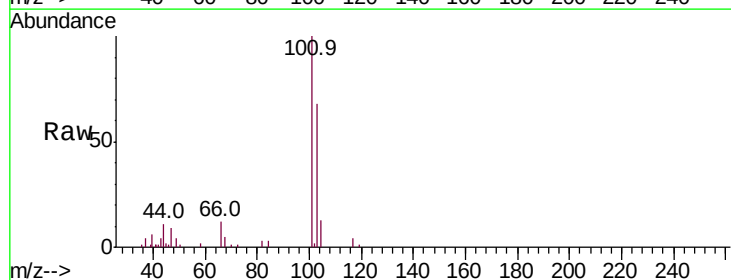
Instrument :
 MSVOA_L
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 TZC-SSDS-AREA-B-2

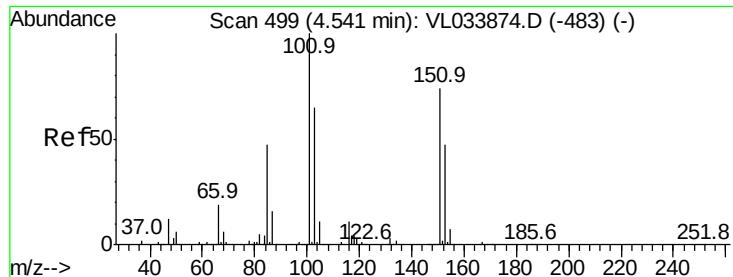
Tot Ion: 43 Resp: 16931
 Ion Ratio Lower Upper
 43 100
 57 64.4 41.7 62.5#



#11
 Trichlorofluoromethane
 Concen: 0.233 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

Tgt Ion: 101 Resp: 43589
 Ion Ratio Lower Upper
 101 100
 103 68.1 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.057 ppbv

RT: 4.53 min Scan# 496

Delta R.T. -0.01 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

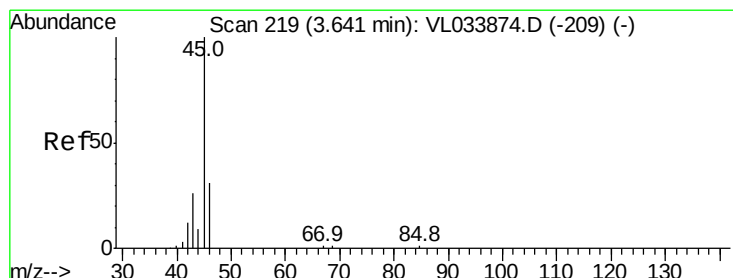
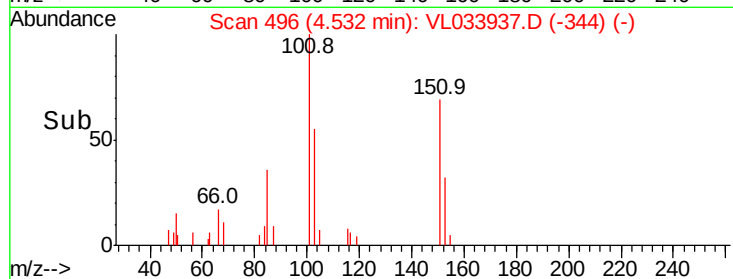
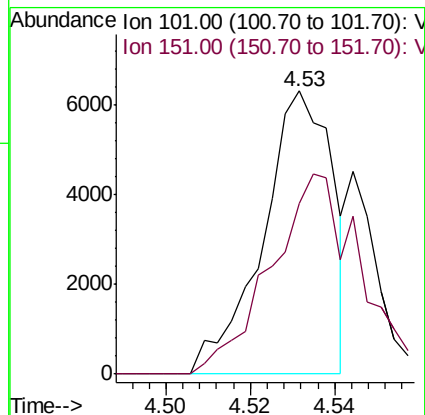
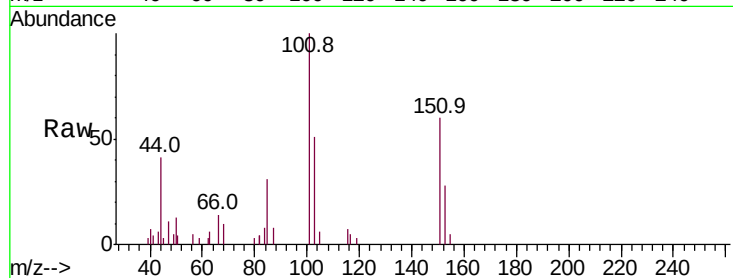
TZC-SSDS-AREA-B-2

Tot Ion:101 Resp: 7244

Ion Ratio Lower Upper

101 100

151 92.0 58.6 87.8#



#13

Ethanol

Concen: 19.056 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033937.D

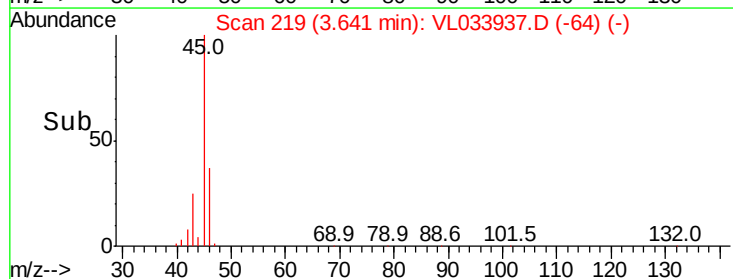
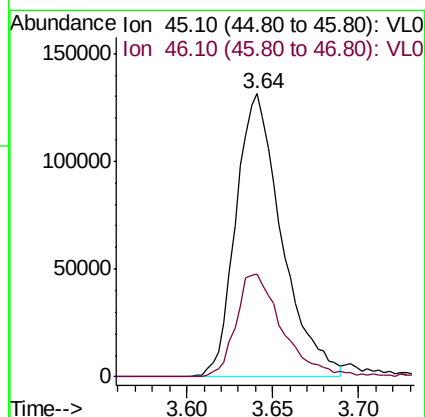
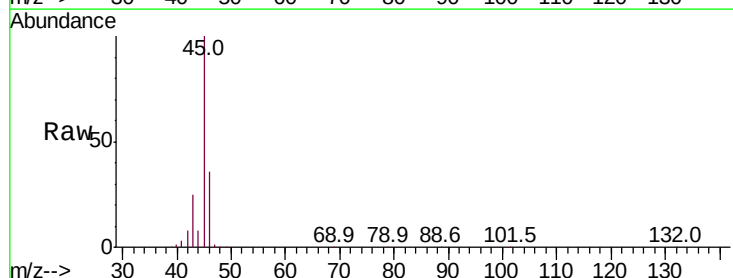
Acq: 24 Jun 2019 15:18

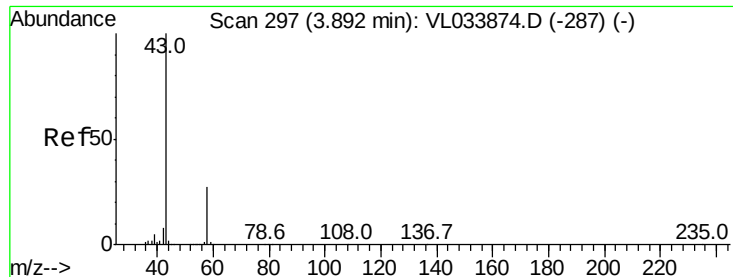
Tgt Ion: 45 Resp: 243854

Ion Ratio Lower Upper

45 100

46 36.9 15.3 61.1





#15

Acetone

Concen: 5.897 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

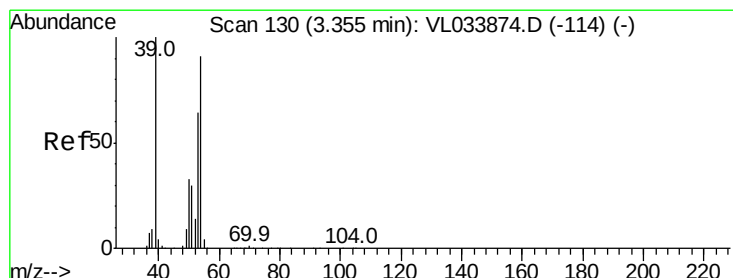
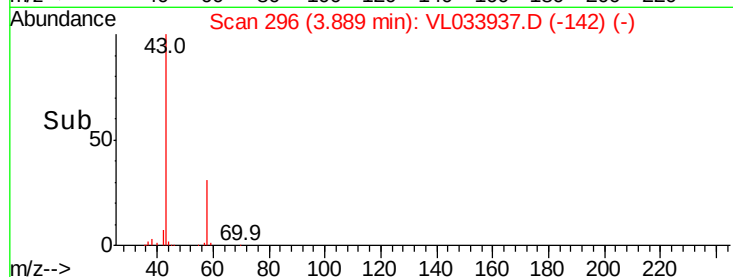
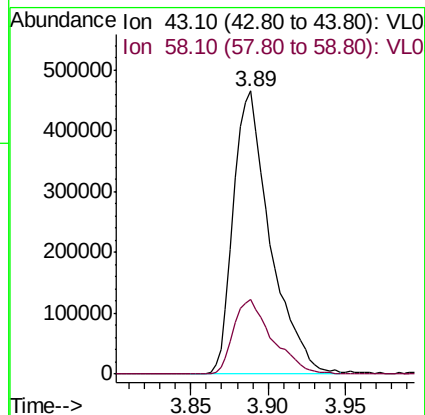
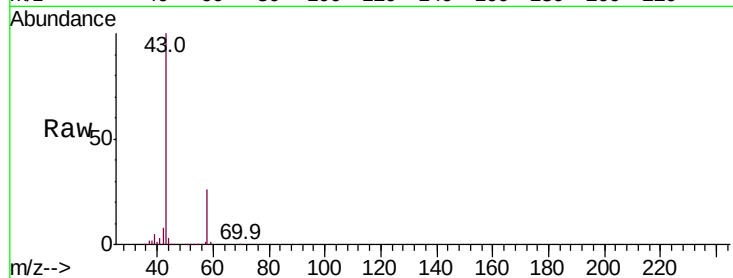
TZC-SSDS-AREA-B-2

Tot Ion: 43 Resp: 767946

Ion Ratio Lower Upper

43 100

58 28.0 21.3 31.9



#16

1,3-Butadiene

Concen: 0.123 ppbv

RT: 3.33 min Scan# 122

Delta R.T. -0.03 min

Lab File: VL033937.D

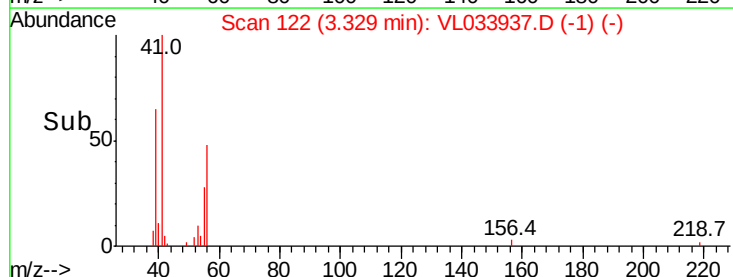
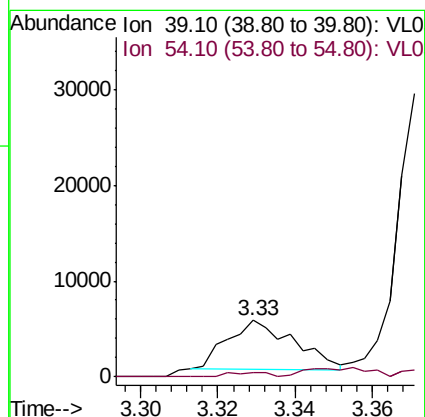
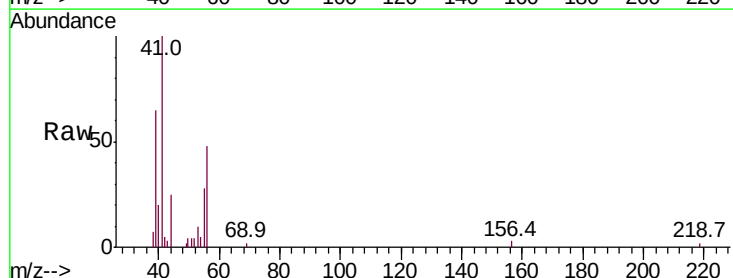
Acq: 24 Jun 2019 15:18

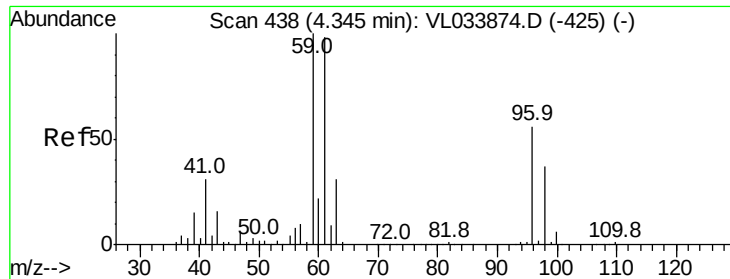
Tgt Ion: 39 Resp: 6074

Ion Ratio Lower Upper

39 100

54 0.0 68.6 103.0#



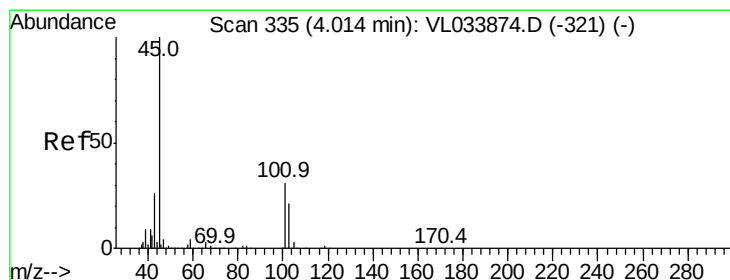
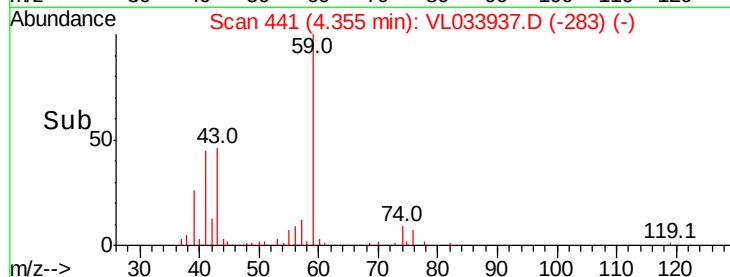
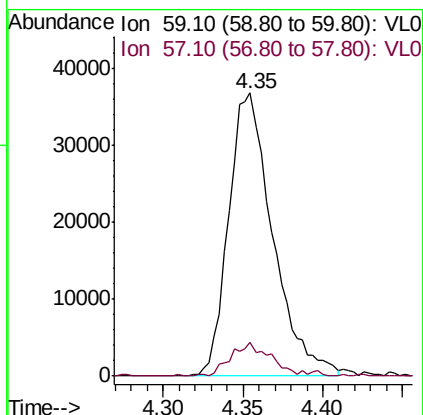
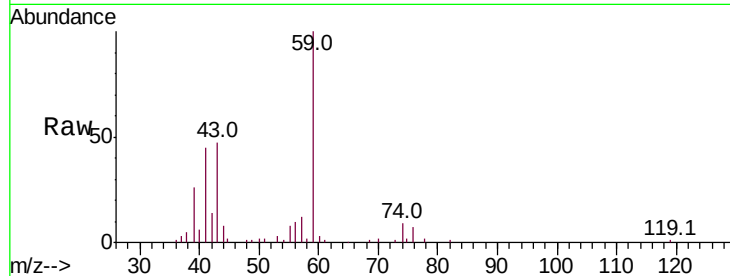


#17

tert-Butyl alcohol
Concen: 0.681 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-2

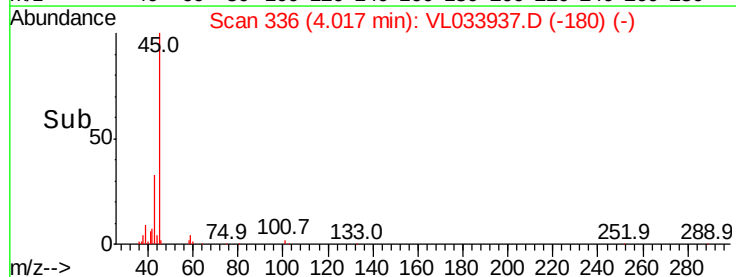
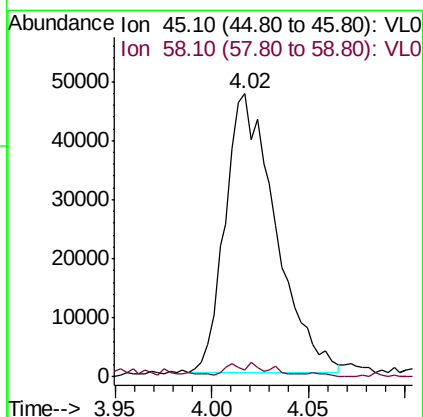
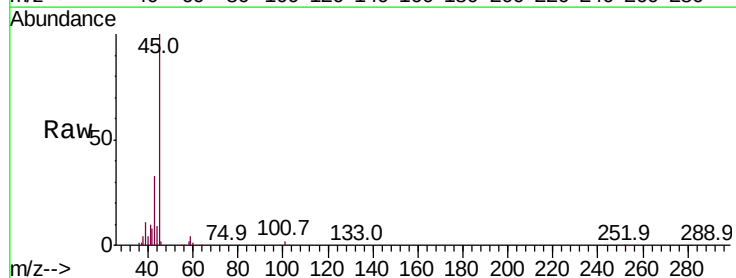
Tot Ion: 59 Resp: 69370
Ion Ratio Lower Upper
59 100
57 11.4 8.4 12.6

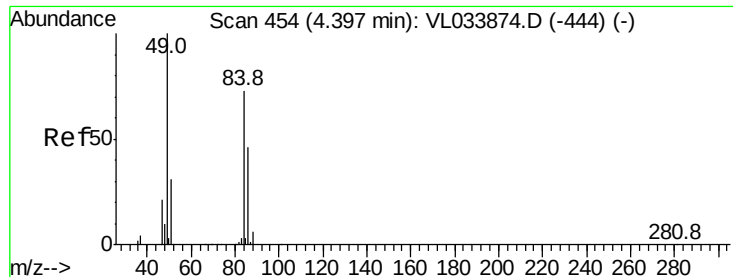


#19

Isopropyl Alcohol
Concen: 1.153 ppbv
RT: 4.02 min Scan# 336
Delta R.T. 0.00 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

Tgt Ion: 45 Resp: 85778
Ion Ratio Lower Upper
45 100
58 249.0 1.8 2.6#

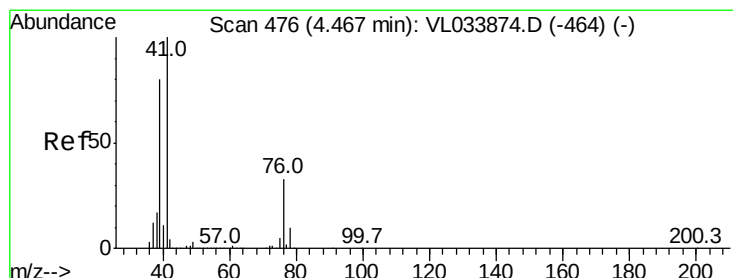
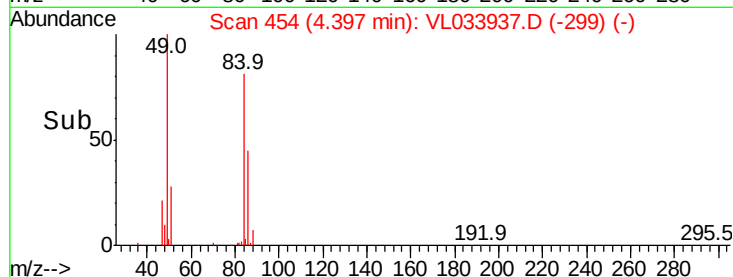
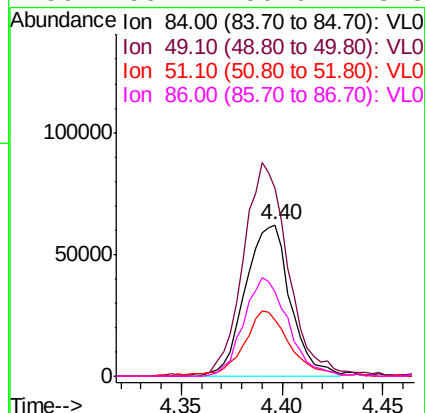
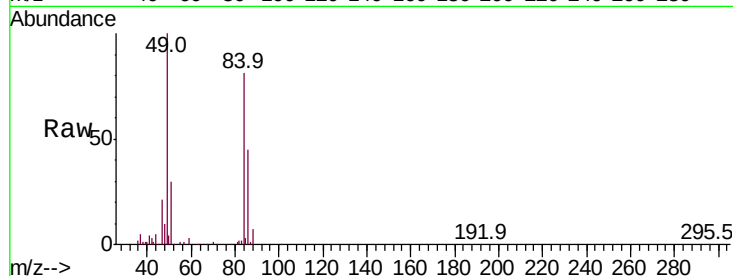




#20
Methylene Chloride
Concen: 1.912 ppbv
RT: 4.40 min Scan# 454
Delta R.T. -0.00 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

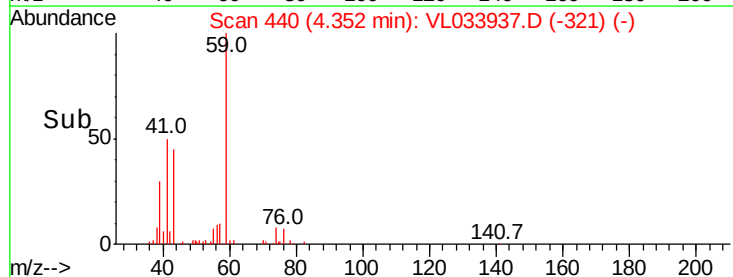
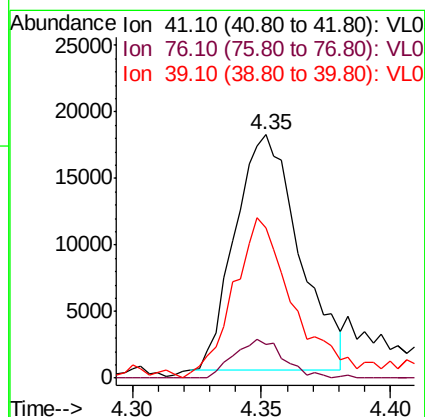
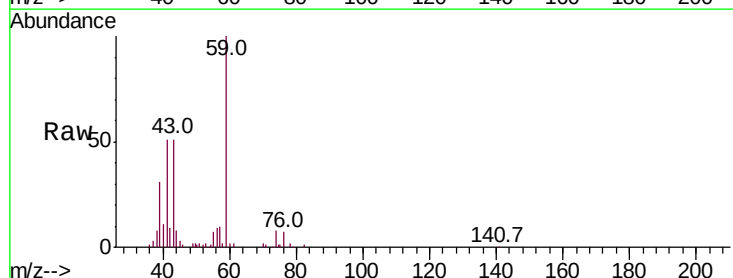
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-2

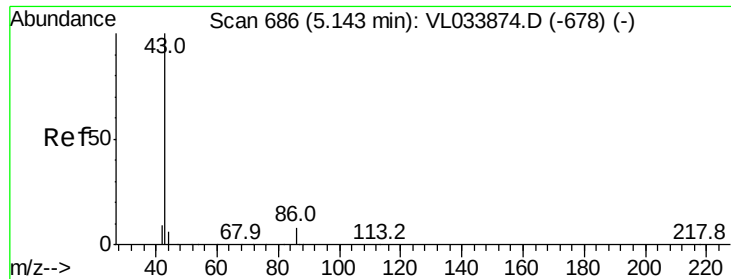
Tot Ion:	84	Resp:	97110
Ion	Ratio	Lower	Upper
84	100		
49	123.1	110.0	165.0
51	35.9	34.6	51.8
86	55.4	50.6	75.8



#21
Allyl Chloride
Concen: 0.418 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.12 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

Tgt Ion:	41	Resp:	30912
Ion	Ratio	Lower	Upper
41	100		
76	12.9	26.6	39.8#
39	71.3	65.2	97.8





#23

Vinyl Acetate

Concen: 0.253 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

Tot Ion: 43 Resp: 38339

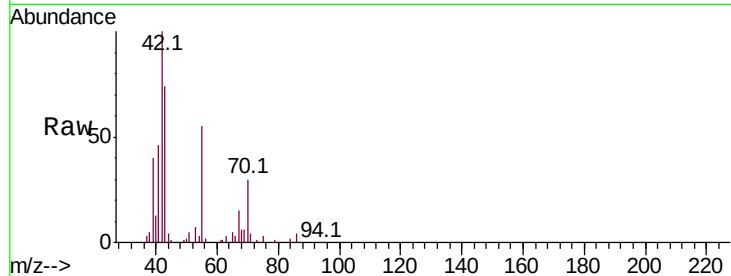
Ion Ratio Lower Upper

43 100

86 6.2 5.8 8.8

42 130.6 7.8 11.8#

44 0.0 4.2 6.4#

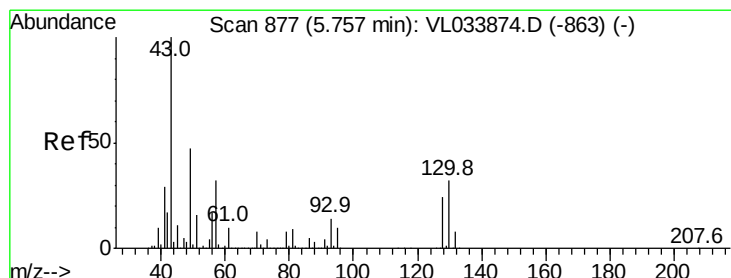
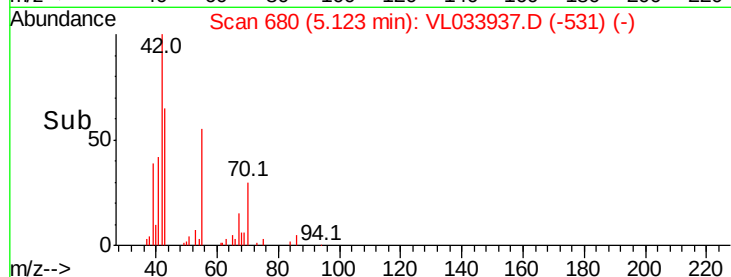
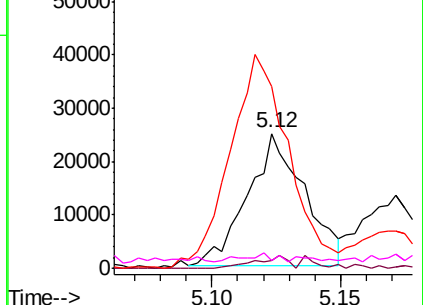


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.701 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Tgt Ion: 43 Resp: 139101

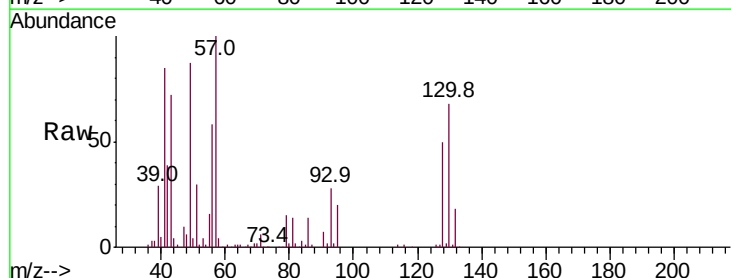
Ion Ratio Lower Upper

43 100

45 2.6 7.9 11.9#

61 1.3 7.8 11.6#

70 2.6 5.8 8.6#

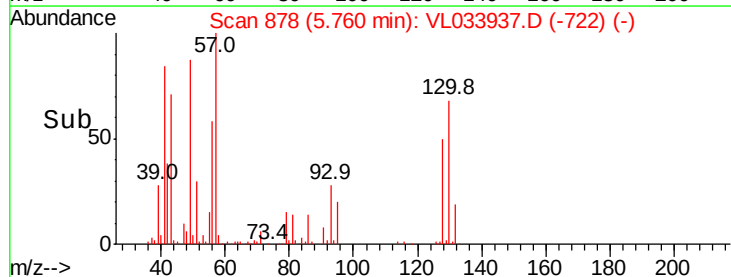
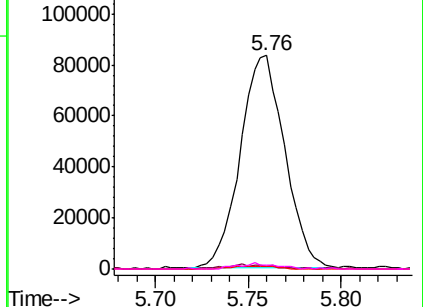


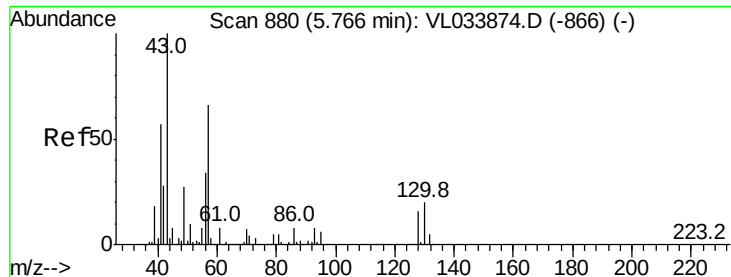
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.102 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

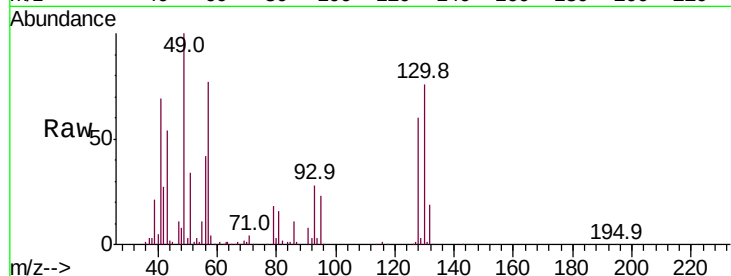
MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

Tot Ion: 57 Resp: 189818

Ion	Ratio	Lower	Upper
57	100		
41	91.6	71.4	107.2
43	75.6	183.7	275.5#
56	55.7	42.7	64.1



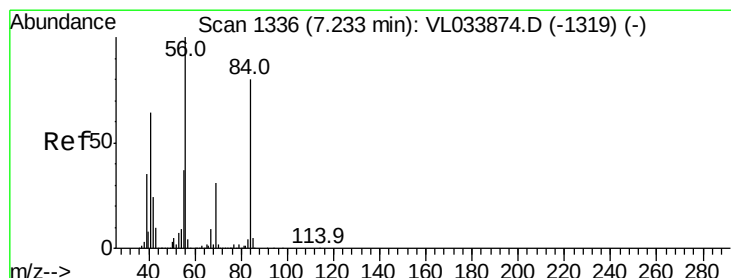
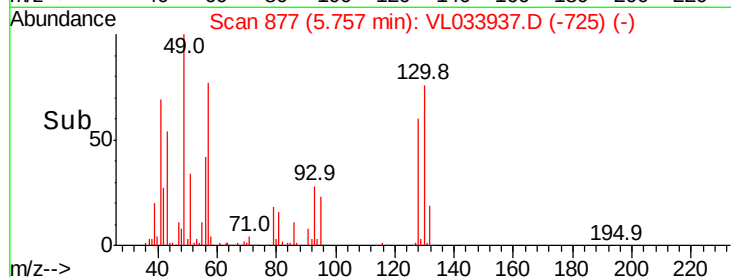
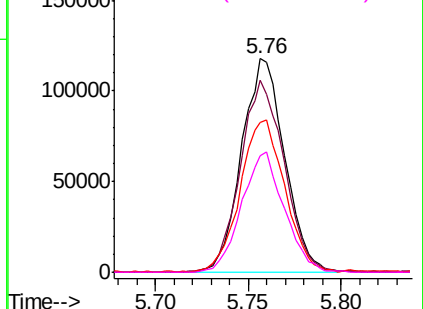
Abundance

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



#30

Cyclohexane

Concen: 0.082 ppbv

RT: 7.21 min Scan# 1330

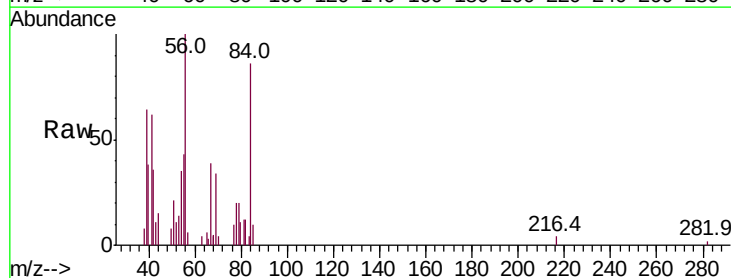
Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Tgt Ion: 84 Resp: 5228

Ion	Ratio	Lower	Upper
84	100		
56	0.0	105.8	158.8#
41	0.0	65.7	98.5#

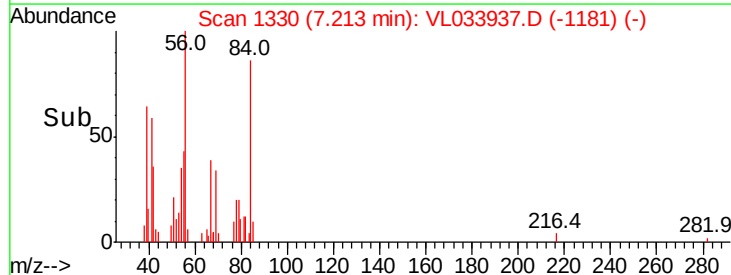
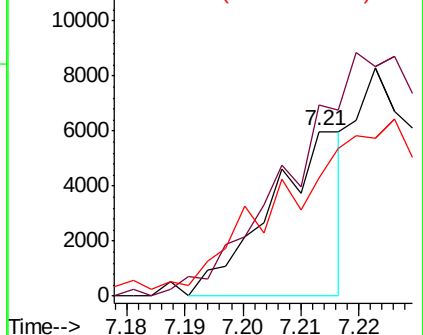


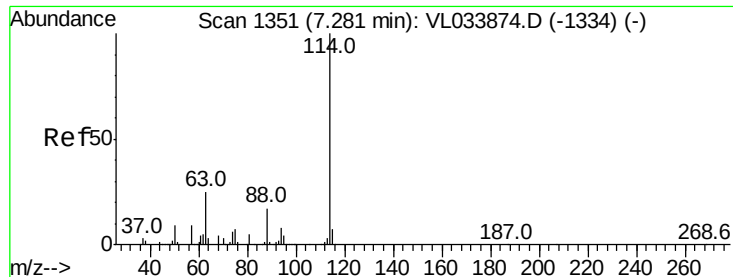
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

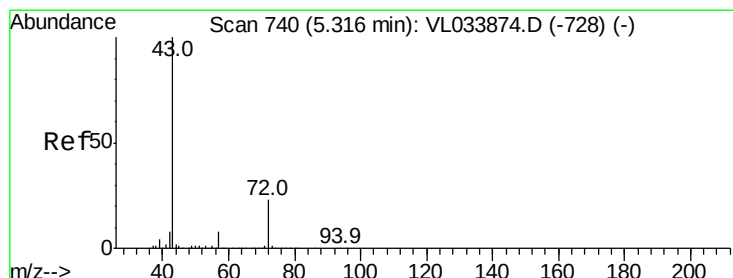
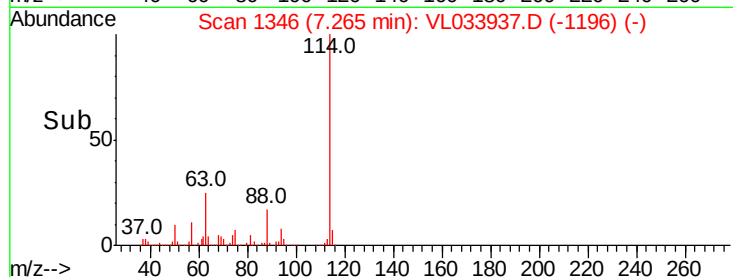
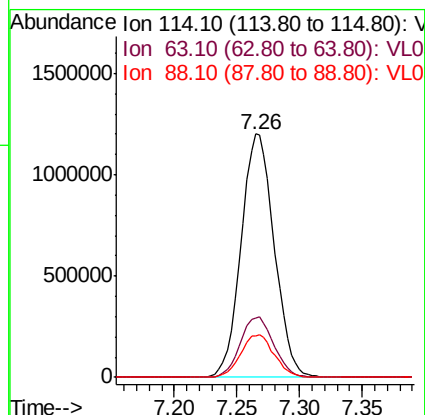
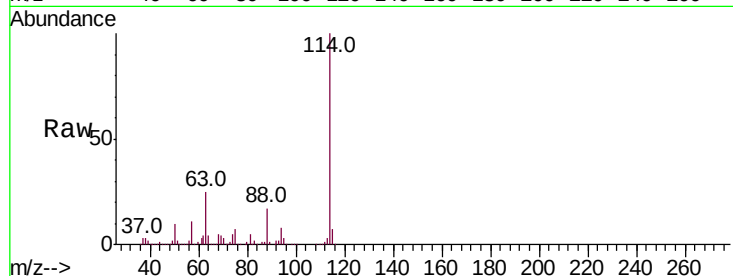




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.02 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

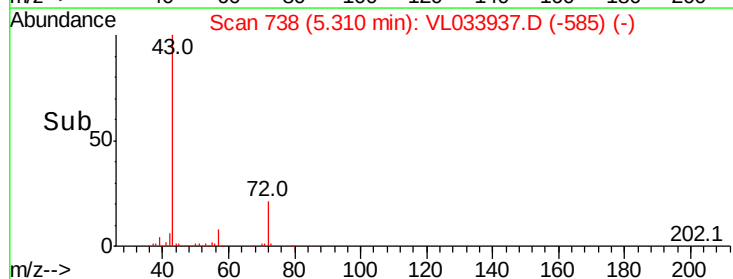
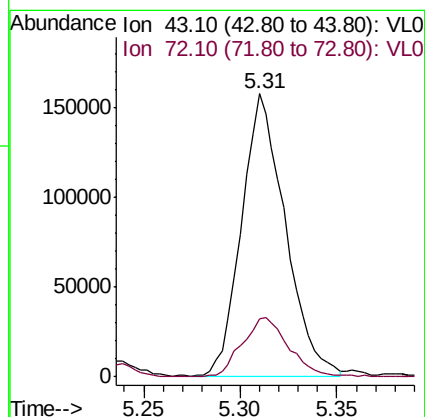
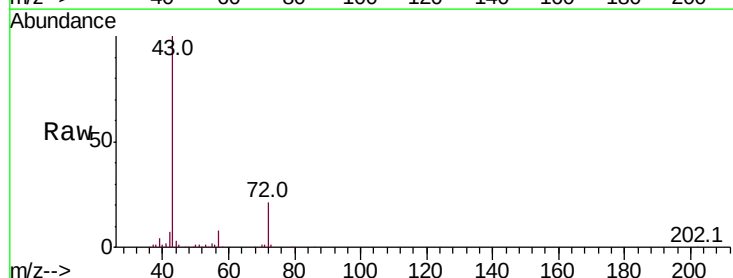
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2

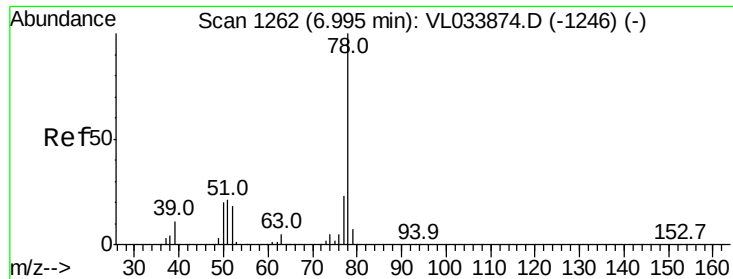
Tot Ion:114 Resp: 2206338
 Ion Ratio Lower Upper
 114 100
 63 25.3 21.1 31.7
 88 17.7 14.2 21.4



#34
 2-Butanone
 Concen: 1.987 ppbv
 RT: 5.31 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

Tgt Ion: 43 Resp: 247307
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.9 26.9





#36

Benzene

Concen: 0.181 ppbv

RT: 6.98 min Scan# 1256

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

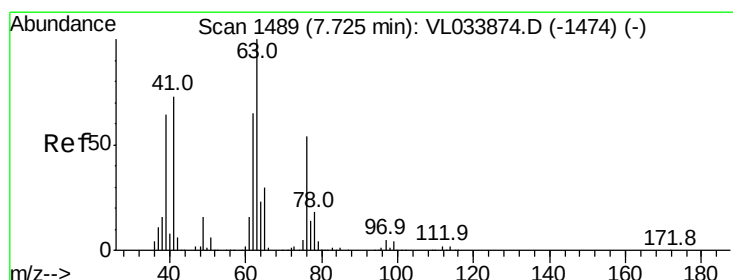
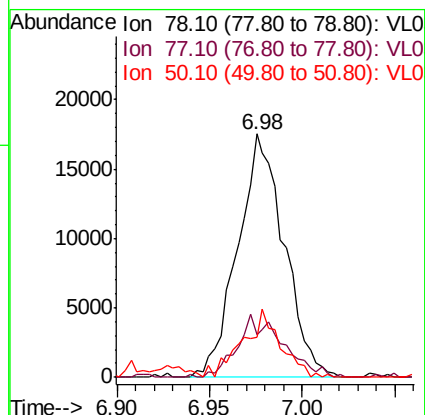
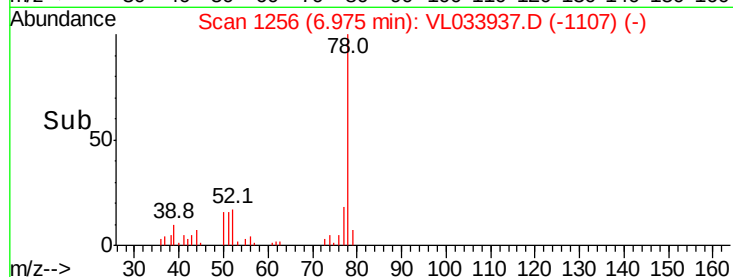
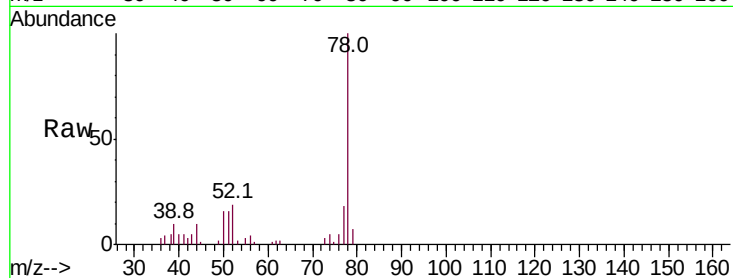
Tot Ion: 78 Resp: 30467

Ion Ratio Lower Upper

78 100

77 16.4 18.2 27.2#

50 16.3 15.9 23.9



#39

1,2-Dichloropropane

Concen: 8.489 ppbv

RT: 7.27 min Scan# 1347

Delta R.T. -0.46 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

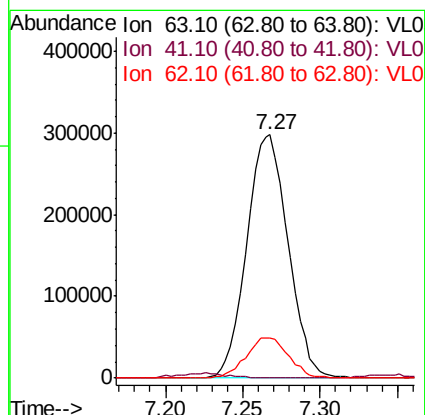
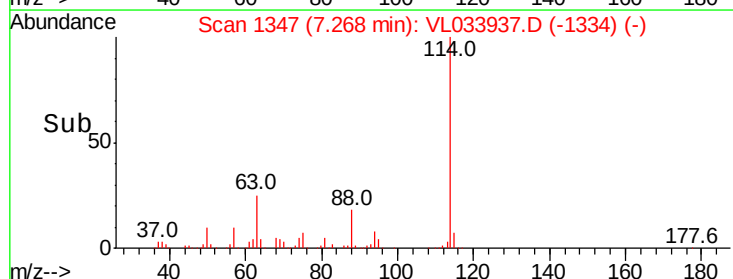
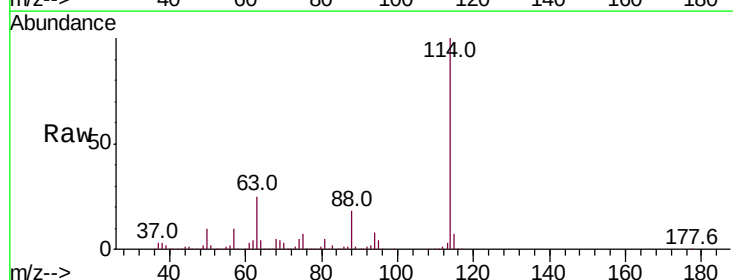
Tgt Ion: 63 Resp: 552182

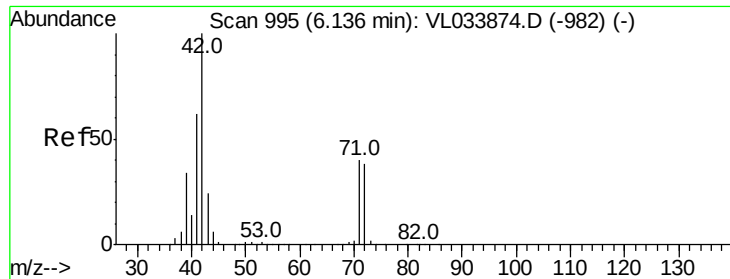
Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 16.3 51.9 77.9#





#41

Tetrahydrofuran

Concen: 0.195 ppbv

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

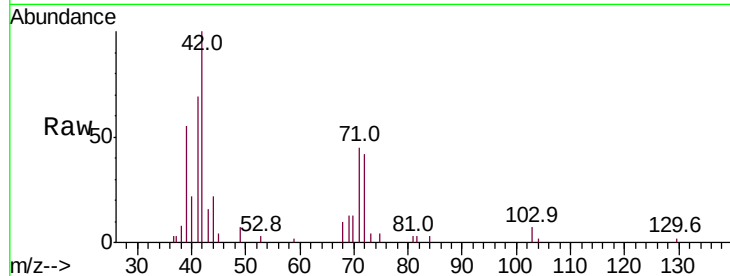
Tot Ion: 42 Resp: 12289

Ion Ratio Lower Upper

42 100

72 52.6 32.2 48.4#

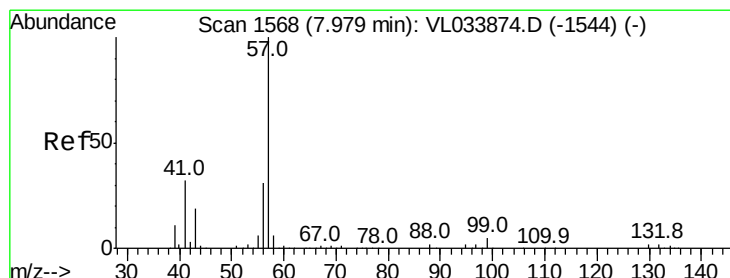
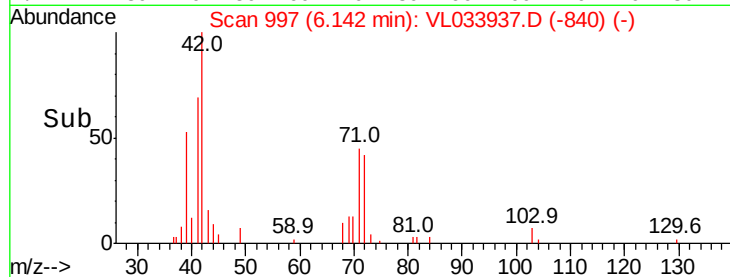
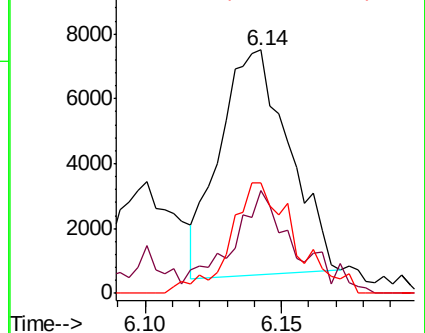
71 45.7 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.065 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

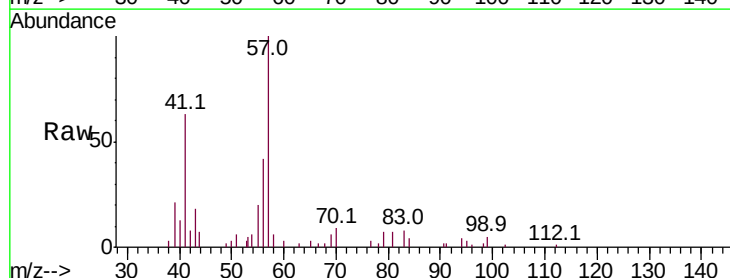
Tgt Ion: 57 Resp: 19530

Ion Ratio Lower Upper

57 100

41 100.8 26.1 39.1#

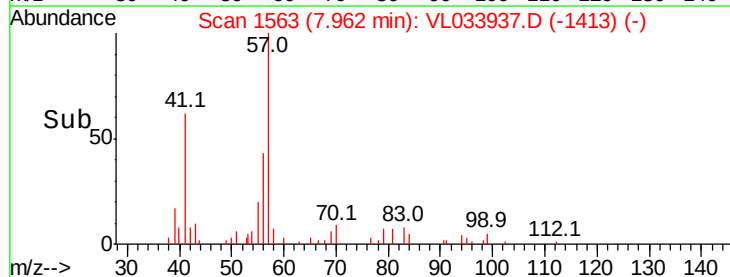
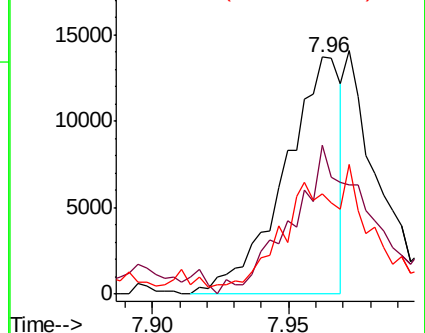
56 0.0 24.6 36.8#

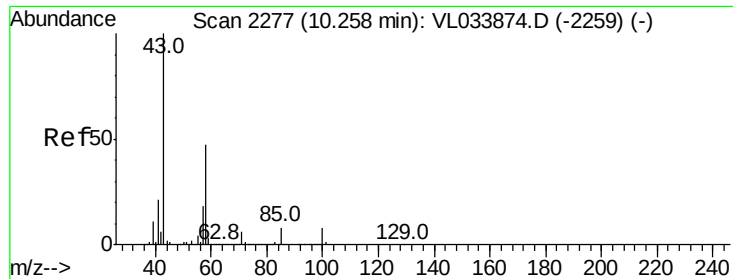


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#51

2-Hexanone

Concen: 0.455 ppbv

RT: 10.22 min Scan# 2265

Delta R.T. -0.04 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

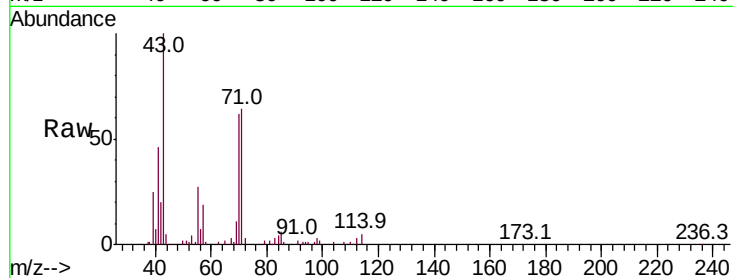
Tot Ion: 43 Resp: 66013

Ion Ratio Lower Upper

43 100

58 3.2 38.2 57.4#

98 0.0 0.2 0.2#

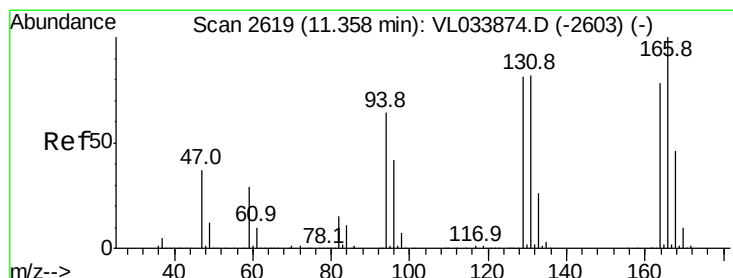
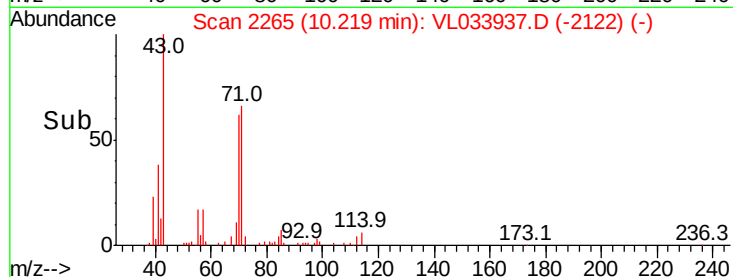
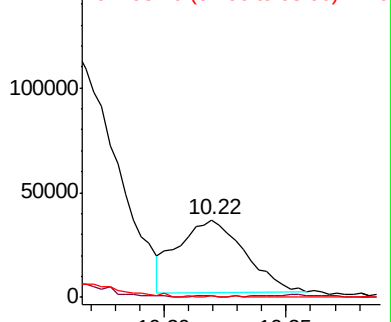


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.059 ppbv

RT: 11.34 min Scan# 2612

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Tgt Ion:164 Resp: 3480

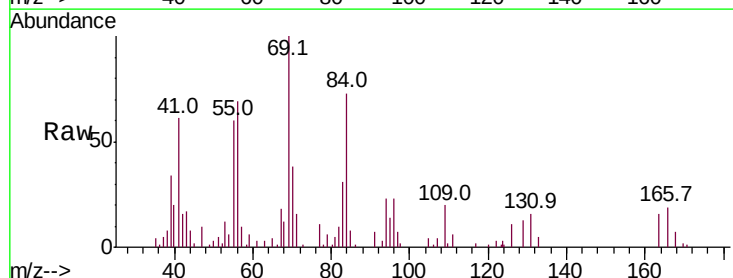
Ion Ratio Lower Upper

164 100

166 97.7 103.1 154.7#

129 83.7 83.9 125.9#

131 102.4 85.1 127.7



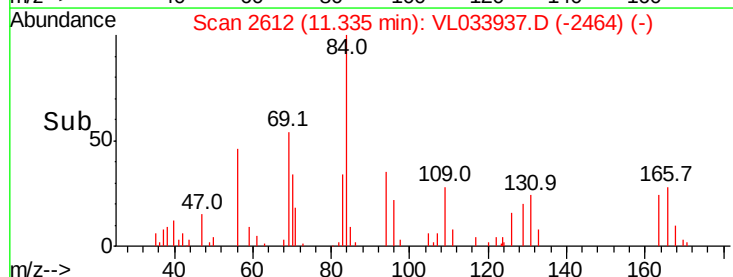
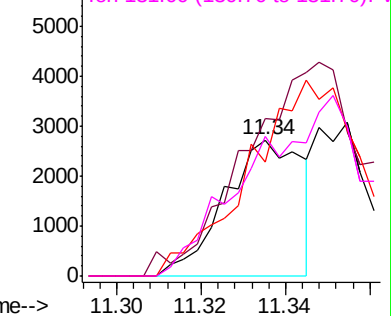
Abundance

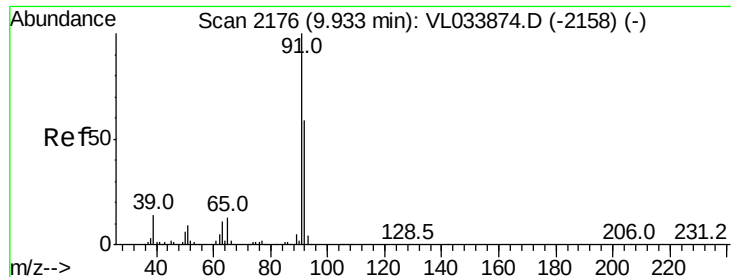
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.048 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

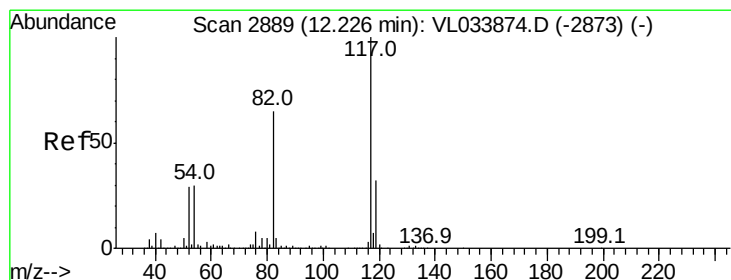
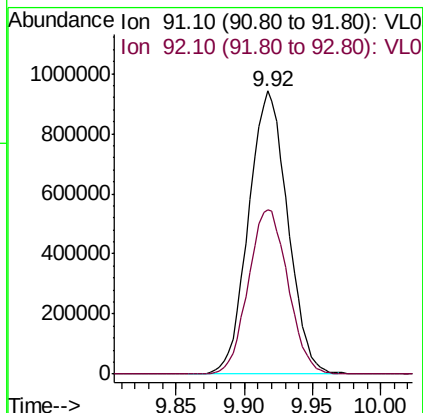
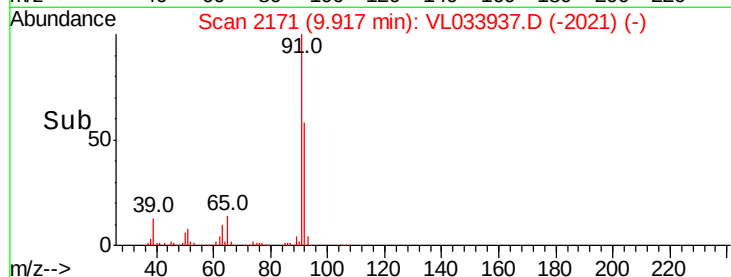
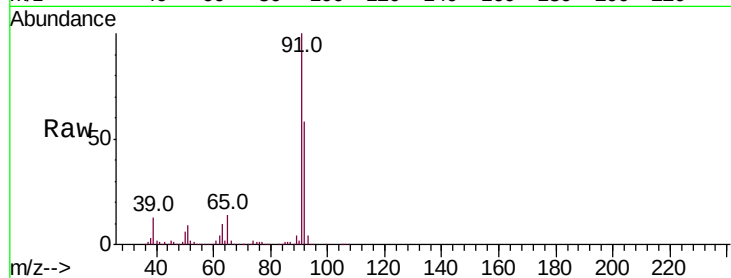
TZC-SSDS-AREA-B-2

Tot Ion: 91 Resp: 1874086

Ion Ratio Lower Upper

91 100

92 59.1 47.0 70.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

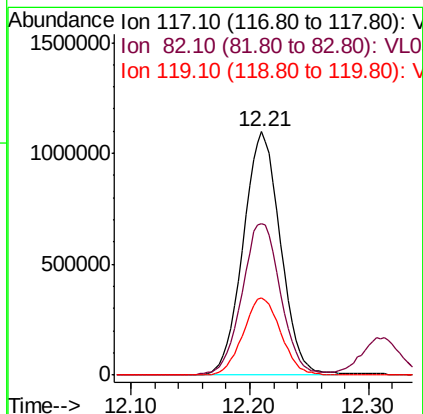
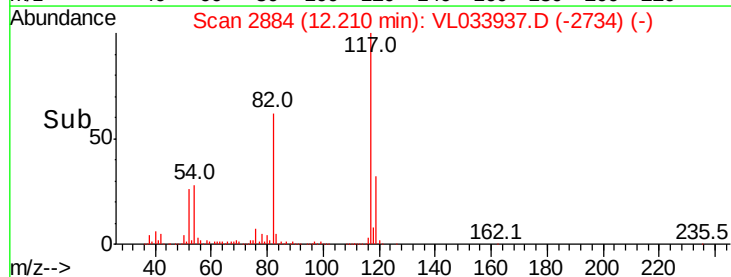
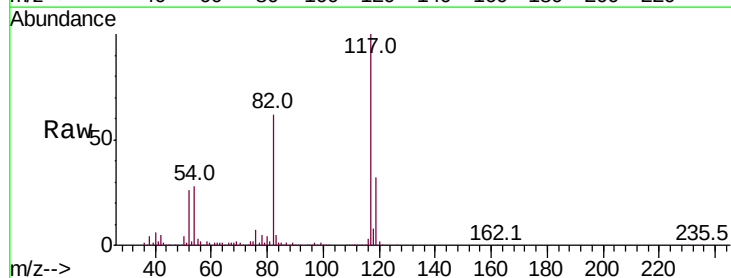
Tgt Ion: 117 Resp: 2379090

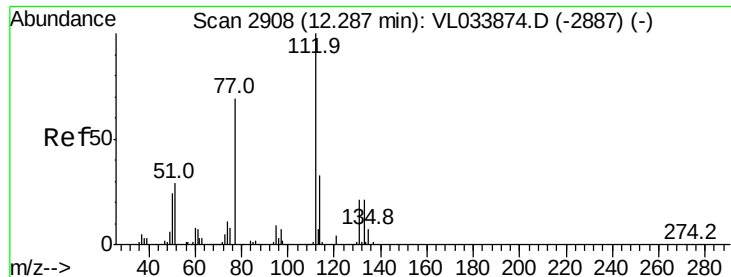
Ion Ratio Lower Upper

117 100

82 64.4 50.2 75.2

119 32.6 24.8 37.2

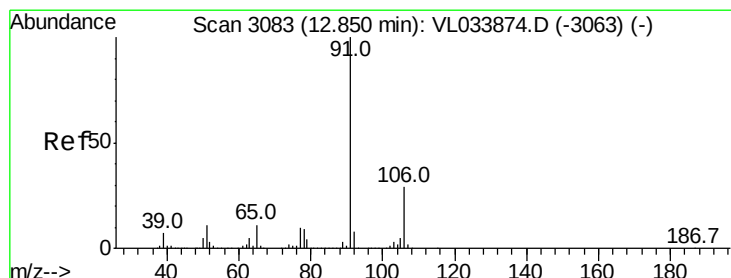
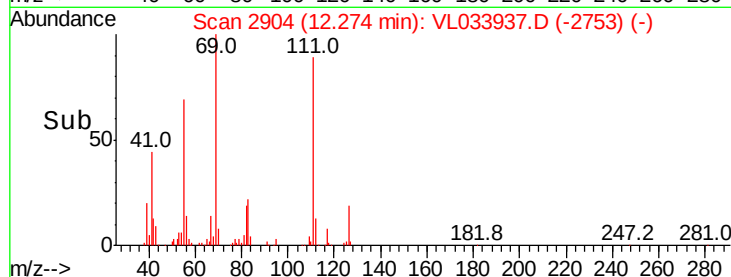
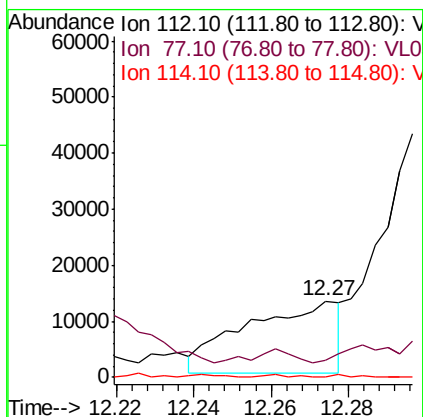
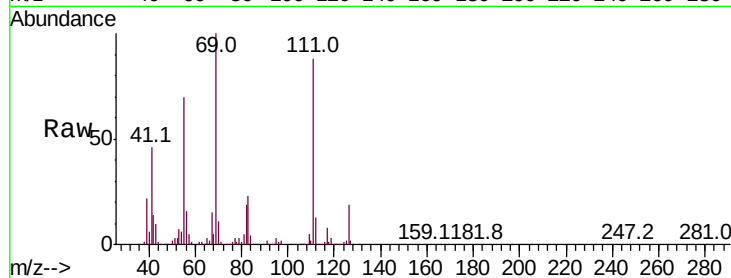




#57
Chlorobenzene
Concen: 0.121 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

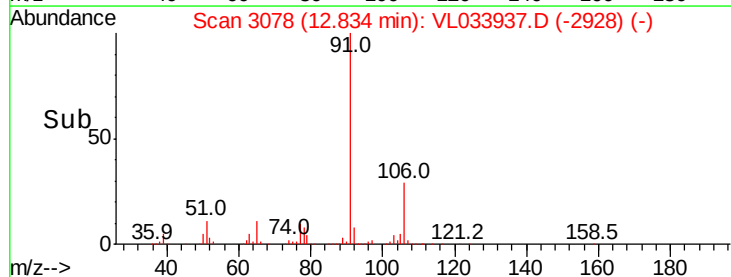
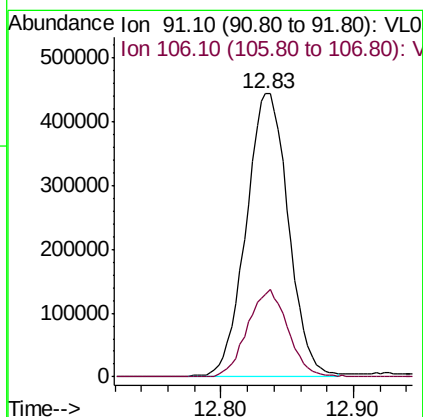
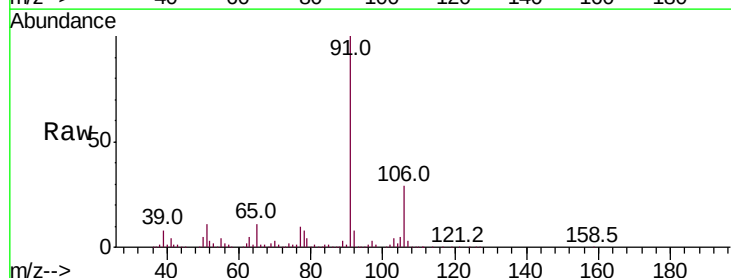
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-2

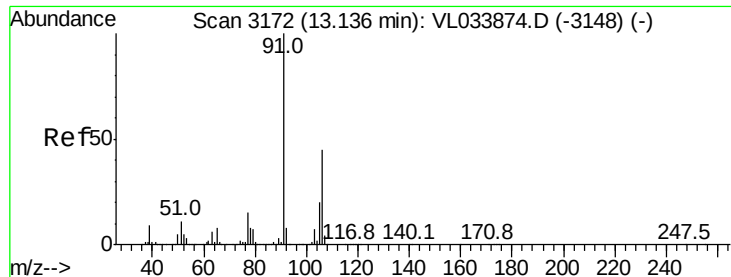
Tot Ion:112 Resp: 21604
Ion Ratio Lower Upper
112 100
77 0.0 55.8 83.6#
114 0.0 29.8 36.4#



#58
Ethyl Benzene
Concen: 3.662 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033937.D
Acq: 24 Jun 2019 15:18

Tgt Ion: 91 Resp: 982320
Ion Ratio Lower Upper
91 100
106 29.2 23.0 34.6





#59

m/p-Xylene

Concen: 15.689 ppbv

RT: 13.09 min Scan# 3158

Delta R.T. -0.05 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

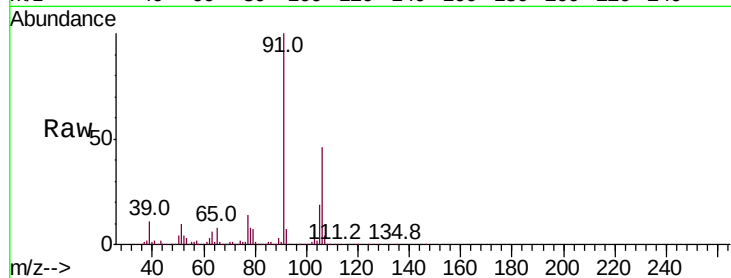
TZC-SSDS-AREA-B-2

Tot Ion: 91 Resp: 3826752

Ion Ratio Lower Upper

91 100

106 46.9 35.8 53.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.09

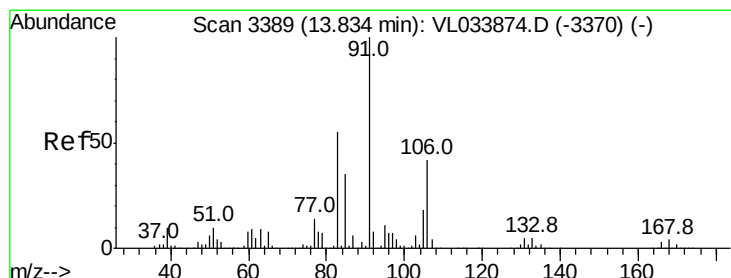
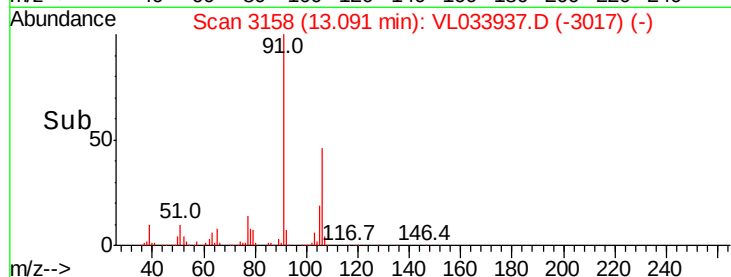
1500000

1000000

500000

0

Time--> 13.00 13.10 13.20



#60

o-Xylene

Concen: 5.225 ppbv

RT: 13.82 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VL033937.D

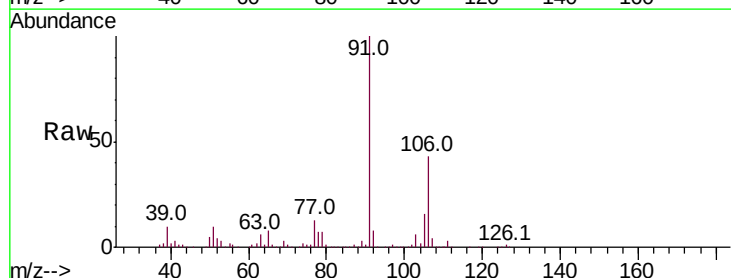
Acq: 24 Jun 2019 15:18

Tgt Ion: 91 Resp: 1315884

Ion Ratio Lower Upper

91 100

106 44.1 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.82

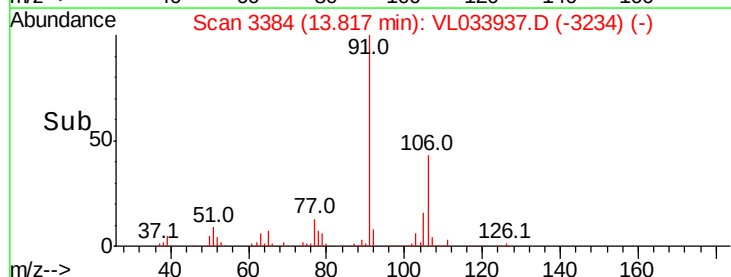
600000

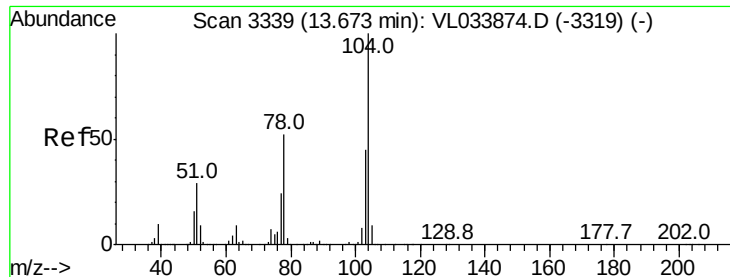
400000

200000

0

Time--> 13.70 13.80 13.90





#61

Stvrene

Concen: 0.043 ppbv

RT: 13.66 min Scan# 3334

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2

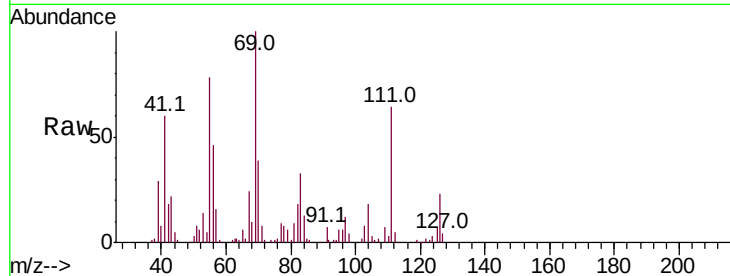
Tot Ion:104 Resp: 7020

Ion Ratio Lower Upper

104 100

78 188.2 43.4 65.0#

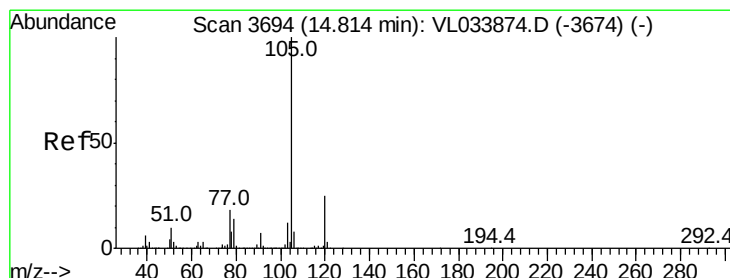
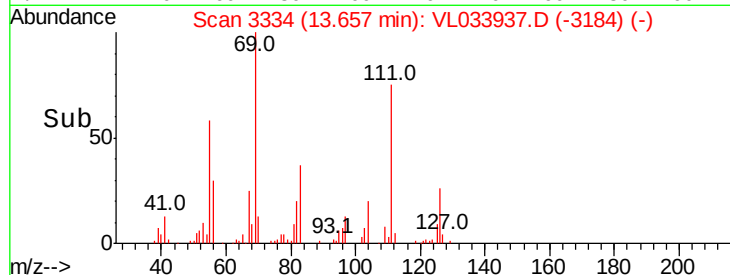
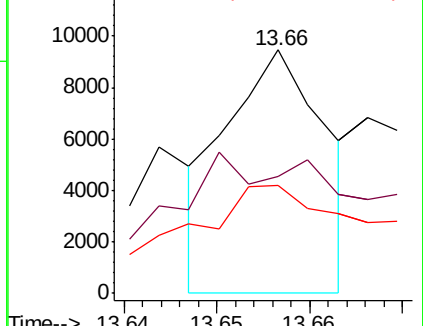
103 125.0 37.6 56.4#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.043 ppbv

RT: 14.79 min Scan# 3688

Delta R.T. -0.02 min

Lab File: VL033937.D

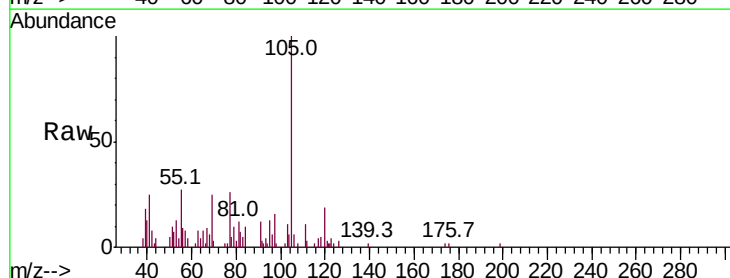
Acq: 24 Jun 2019 15:18

Tgt Ion:105 Resp: 14749

Ion Ratio Lower Upper

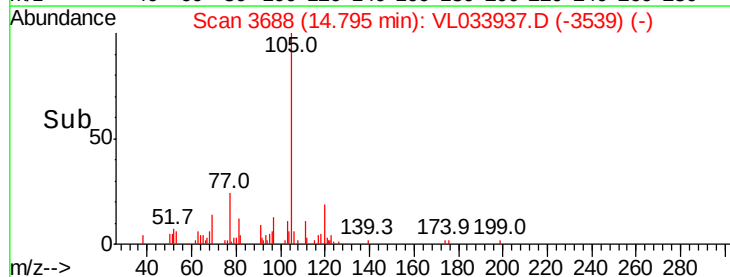
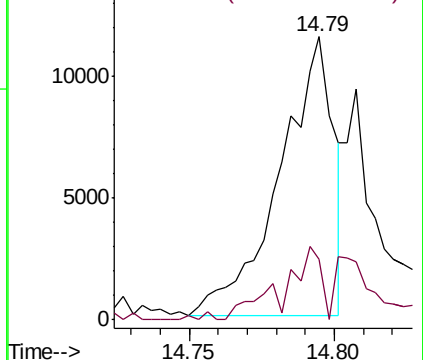
105 100

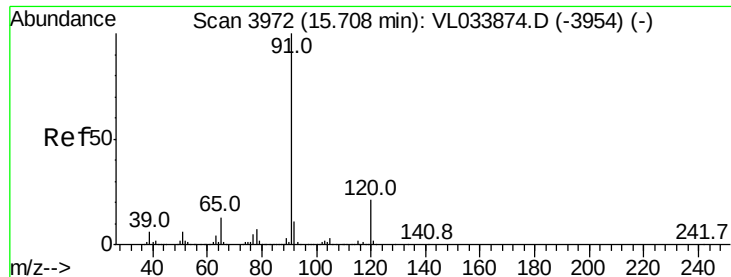
120 19.2 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.088 ppbv

RT: 15.69 min Scan# 3967

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

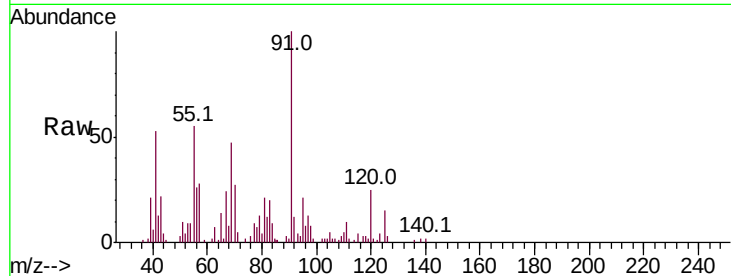
TZC-SSDS-AREA-B-2

Tot Ion:120 Resp: 7646

Ion Ratio Lower Upper

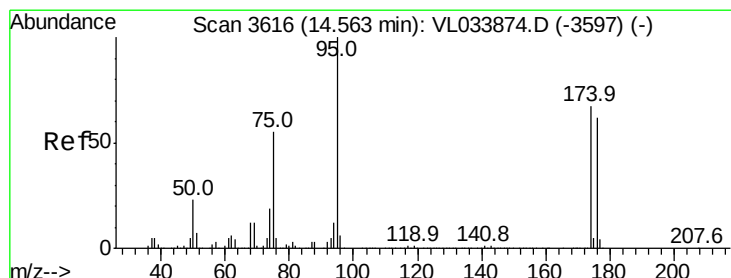
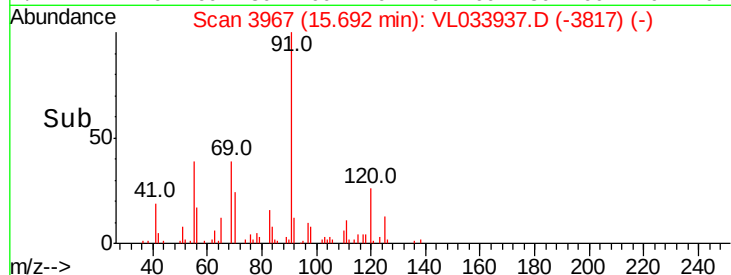
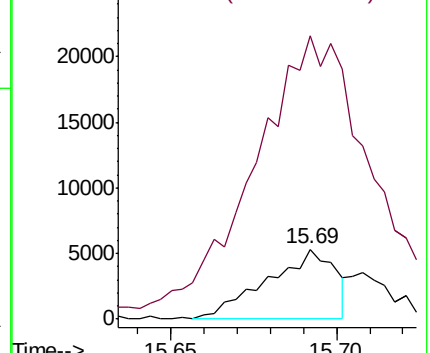
120 100

91 732.4 387.0 580.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.080 ppbv

RT: 14.55 min Scan# 3611

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

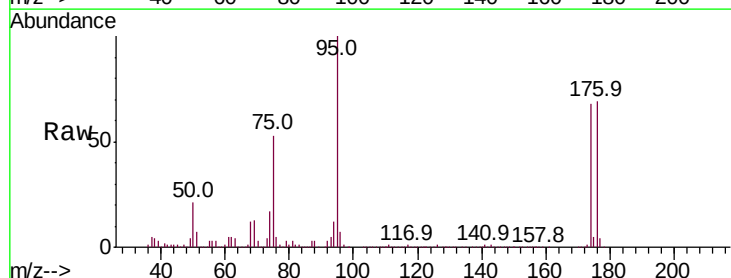
Tgt Ion: 95 Resp: 1969814

Ion Ratio Lower Upper

95 100

174 68.8 54.0 81.0

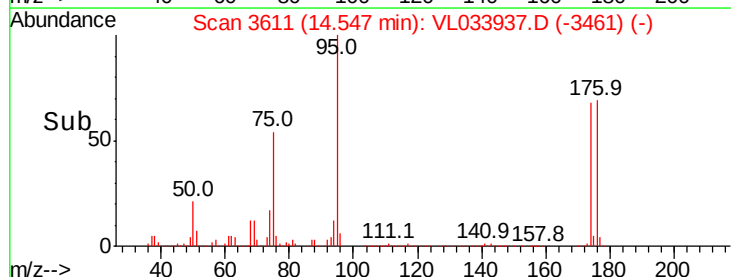
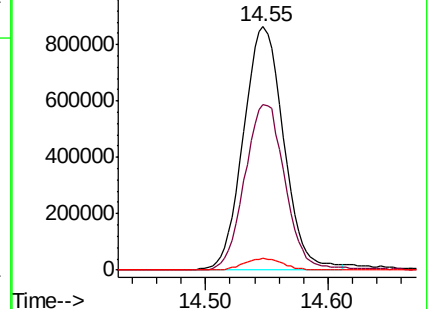
175 4.8 3.8 5.8

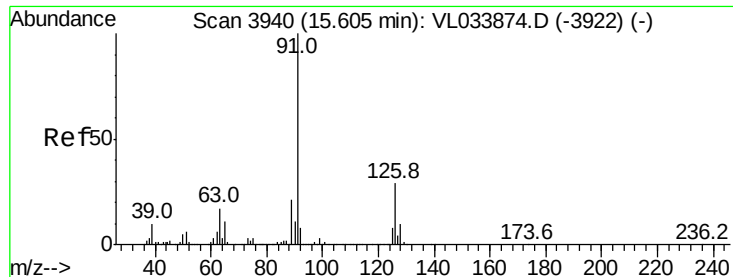


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

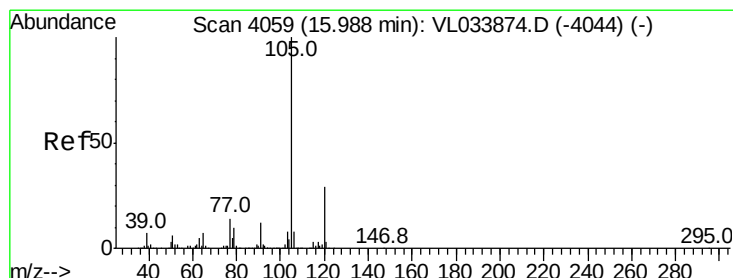
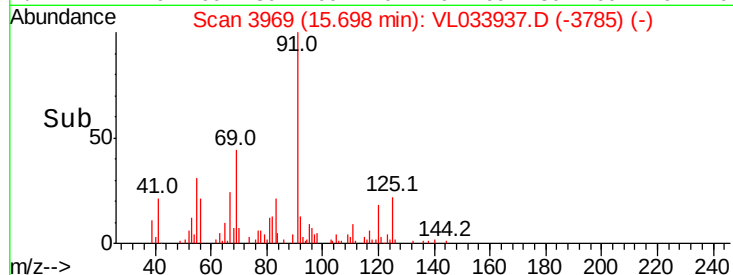
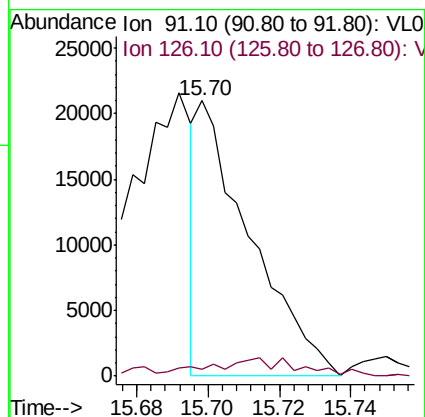
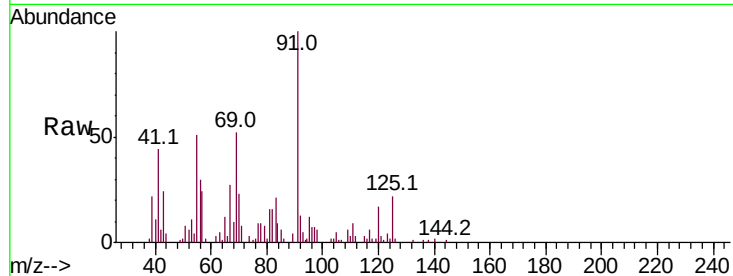




#71
 2-Chlorotoluene
 Concen: 0.086 ppbv
 RT: 15.70 min Scan# 3969
 Delta R.T. 0.09 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

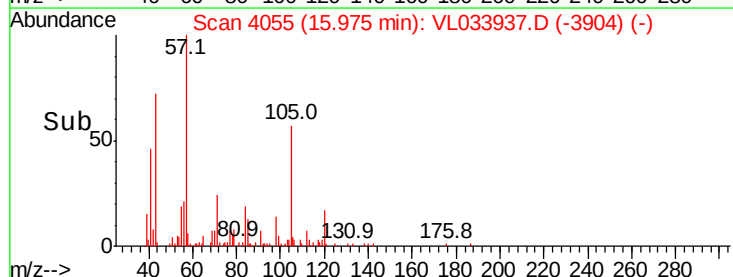
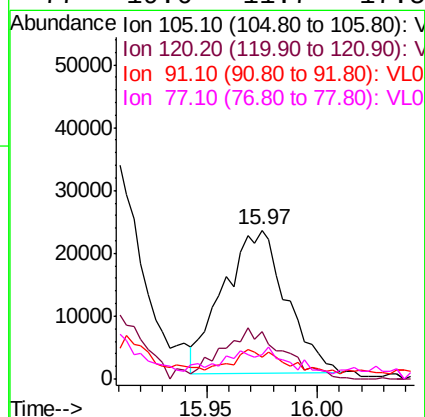
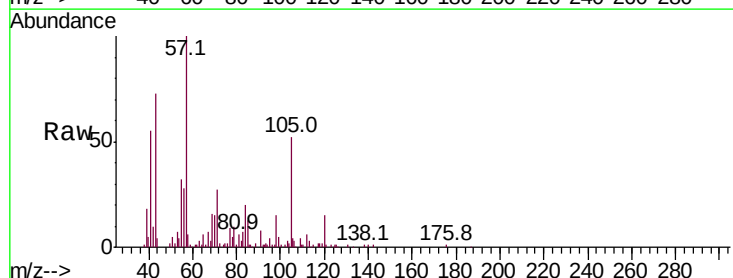
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2

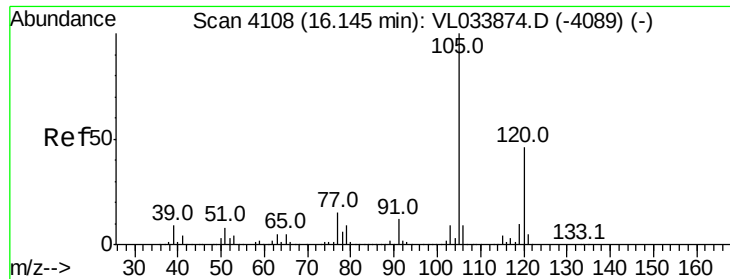
Tot Ion: 91 Resp: 21413
 Ion Ratio Lower Upper
 91 100
 126 12.8 12.0 48.2



#72
 4-Ethyltoluene
 Concen: 0.157 ppbv
 RT: 15.97 min Scan# 4055
 Delta R.T. -0.01 min
 Lab File: VL033937.D
 Acq: 24 Jun 2019 15:18

Tgt Ion: 105 Resp: 44924
 Ion Ratio Lower Upper
 105 100
 120 35.0 23.5 35.3
 91 22.8 10.4 15.6#
 77 19.6 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.121 ppbv

RT: 16.13 min Scan# 4103

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

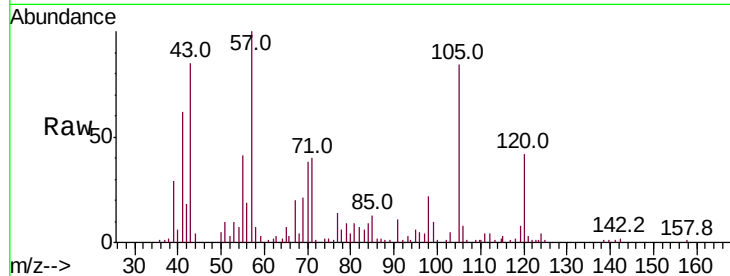
TZC-SSDS-AREA-B-2

Tot Ion:105 Resp: 34045

Ion Ratio Lower Upper

105 100

120 53.9 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.13

25000

20000

15000

10000

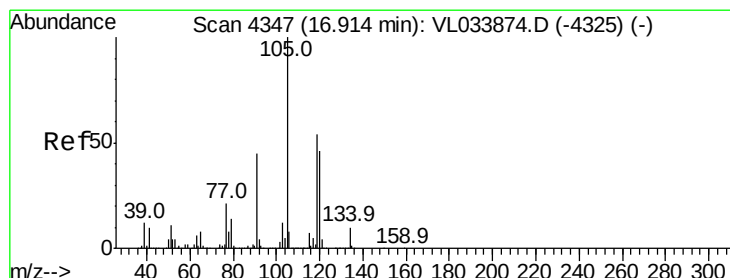
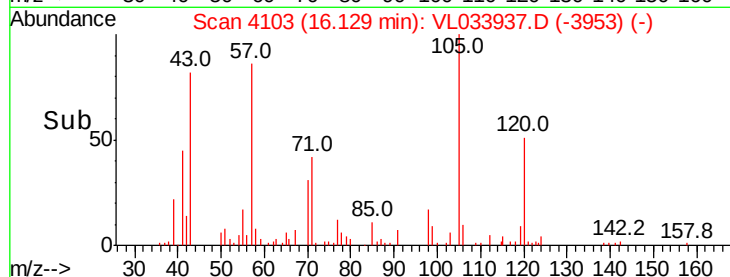
5000

0

Time-->

16.10

16.15



#74

1,2,4-Trimethylbenzene

Concen: 0.532 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL033937.D

Acq: 24 Jun 2019 15:18

Tgt Ion:105 Resp: 173020

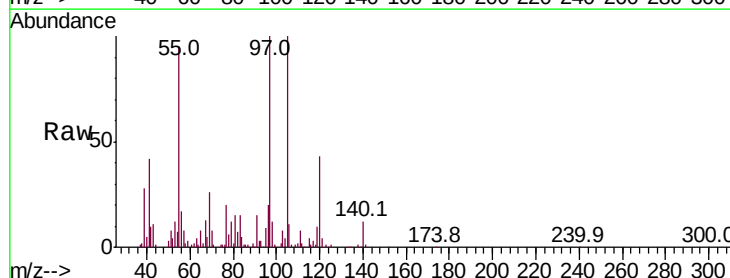
Ion Ratio Lower Upper

105 100

120 43.0 36.7 55.1

91 13.3 35.8 53.8#

77 18.4 16.9 25.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

120000

100000

80000

60000

40000

20000

0

Time-->

16.80

16.85

16.90

16.95

