

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033946.D
 Acq On : 24 Jun 2019 21:17
 Operator : SY/AP
 Sample : K3481-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1

Quant Time: Jun 25 03:40:17 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	5.75	49	972080	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2897967	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2893075	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2347781	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	52894	0.335	ppbv 97
3) Chlorodifluoromethane	3.00	51	190918	1.668	ppbv # 73
4) Chloromethane	3.16	50	35204	0.539	ppbv 95
7) Chloroethane	3.59	64	2034	0.085	ppbv 100
9) Propene	3.04	41	73273	1.711	ppbv # 69
10) Heptane	8.22	43	390970	3.612	ppbv 90
11) Trichlorofluoromethane	3.99	101	43076	0.212	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	8110	0.059	ppbv 88
13) Ethanol	3.65	45	480758	34.508	ppbv 93
15) Acetone	3.88	43	8221712	57.992	ppbv # 86
16) 1,3-Butadiene	3.33	39	172875	3.204	ppbv # 12
17) tert-Butyl alcohol	4.36	59	7020528	63.346	ppbv 99
19) Isopropyl Alcohol	4.03	45	292418	3.610	ppbv # 94
20) Methylene Chloride	4.40	84	235602	4.261	ppbv 96
21) Allyl Chloride	4.36	41	2128782	26.433	ppbv # 56
23) Vinyl Acetate	5.13	43	29232	0.177	ppbv # 1
25) Ethyl Acetate	5.76	43	235214	1.089	ppbv # 80
26) Hexane	5.76	57	318322	3.238	ppbv # 41
27) Carbon Disulfide	4.61	76	75050	0.550	ppbv # 94
30) Cyclohexane	7.22	84	18072	0.260	ppbv # 1
34) 2-Butanone	5.31	43	1086992	6.649	ppbv 97
35) Carbon Tetrachloride	7.11	117	9084	0.041	ppbv # 85
36) Benzene	6.98	78	839914	3.794	ppbv 98
39) 1,2-Dichloropropane	8.15	63	25263	0.296	ppbv # 1
40) 1,4-Dioxane	7.94	88	7195	0.206	ppbv # 1
41) Tetrahydrofuran	6.13	42	131857	1.589	ppbv # 62
43) Methyl Methacrylate	8.16	69	1135568	13.716	ppbv # 73
44) 2,2,4-Trimethylpentane	7.96	57	79442	0.202	ppbv # 43
50) 4-Methyl-2-Pentanone	8.86	43	227289	0.932	ppbv 99
51) 2-Hexanone	10.25	43	13524	0.071	ppbv # 1
52) Tetrachloroethene	11.35	164	13046	0.167	ppbv # 87
53) Toluene	9.92	91	3672981	14.993	ppbv 98
57) Chlorobenzene	12.26	112	9743	0.045	ppbv # 25
58) Ethyl Benzene	12.84	91	2263819	6.940	ppbv 98
59) m/p-Xylene	13.10	91	7362550	24.822	ppbv 95
60) o-Xylene	13.83	91	3998723	13.057	ppbv 97
61) Styrene	13.69	104	28701967	144.823	ppbv # 91
62) Isopropylbenzene	14.81	105	1933532	4.684	ppbv 99
64) n-propylbenzene	15.70	120	417716	3.952	ppbv 98
67) sec-Butylbenzene	17.44	105	17937	0.033	ppbv # 63
69) p-Isopropyltoluene	17.79	119	18577	0.042	ppbv # 47

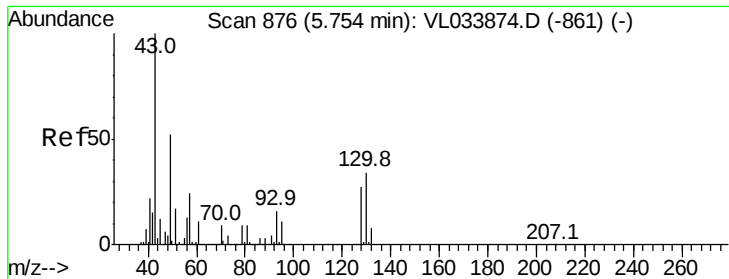
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.69	91	101446	0.208	ppbv #	72
71) 2-Chlorotoluene	15.38	91	32529	0.107	ppbv	89
72) 4-Ethyltoluene	15.98	105	241962	0.694	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.14	105	100635	0.293	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.90	105	332247	0.840	ppbv #	76
75) 1,3-Dichlorobenzene	17.28	146	27675	0.112	ppbv #	1
76) 1,4-Dichlorobenzene	17.28	146	27675	0.122	ppbv #	1
79) Naphthalene	22.38	128	88449	0.280	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

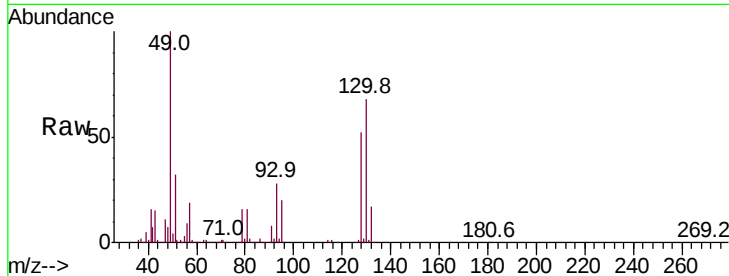
Tot Ion: 49 Resp: 972080

Ion Ratio Lower Upper

49 100

128 53.3 25.5 76.5

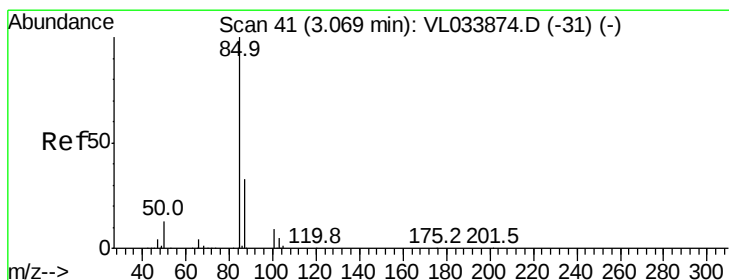
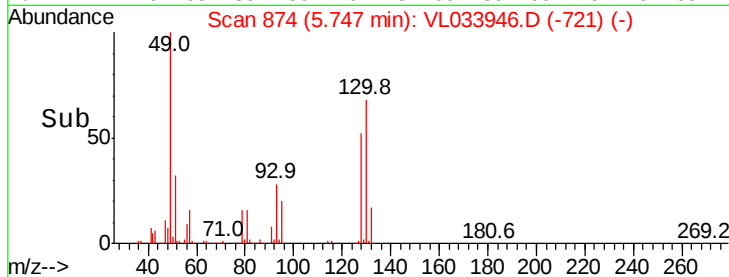
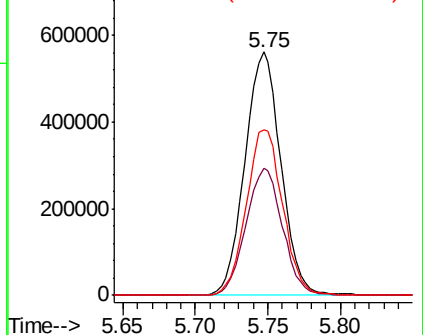
130 68.9 32.5 97.4



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: 0.335 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033946.D

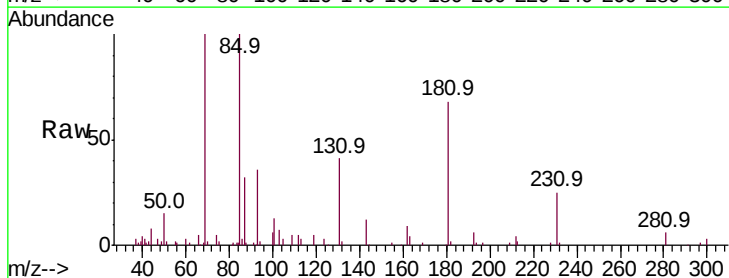
Acq: 24 Jun 2019 21:17

Tgt Ion: 85 Resp: 52894

Ion Ratio Lower Upper

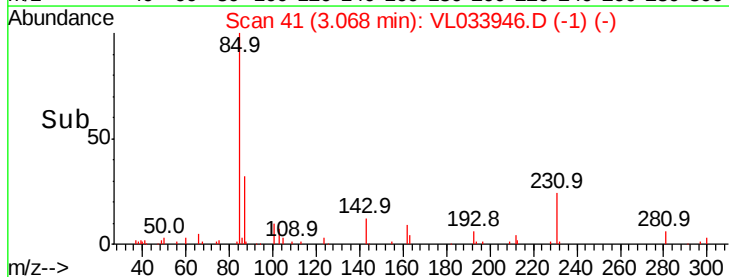
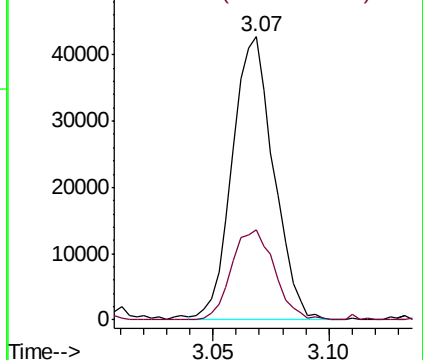
85 100

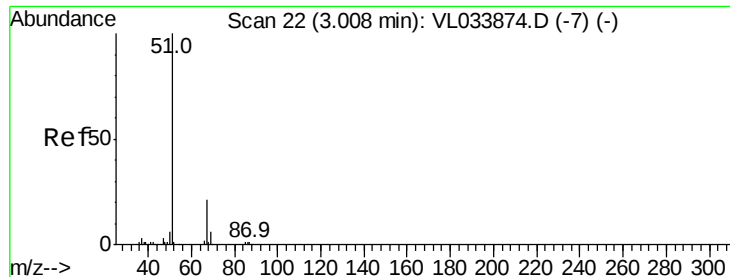
87 31.6 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.668 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

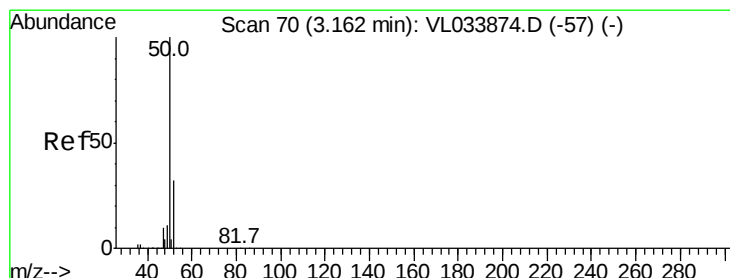
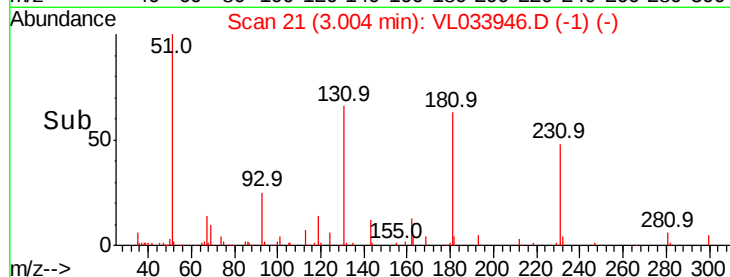
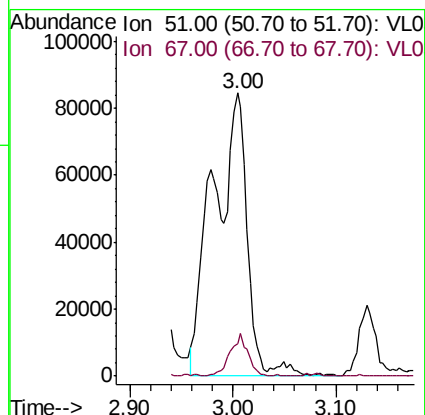
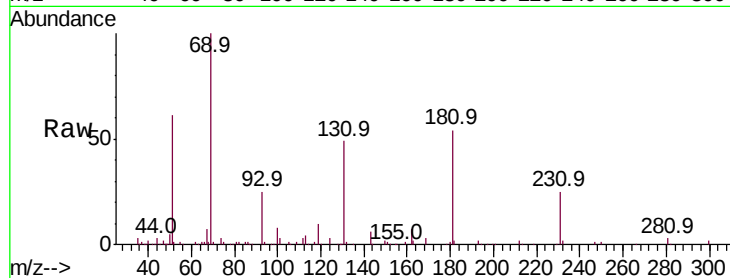
TZC-SSDS-AREA-B-1

Tot Ion: 51 Resp: 190918

Ion Ratio Lower Upper

51 100

67 7.9 16.4 24.6#



#4

Chloromethane

Concen: 0.539 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033946.D

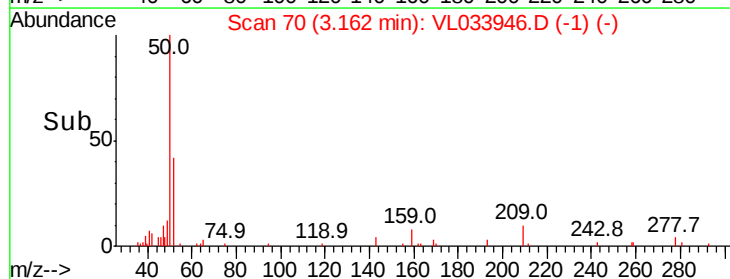
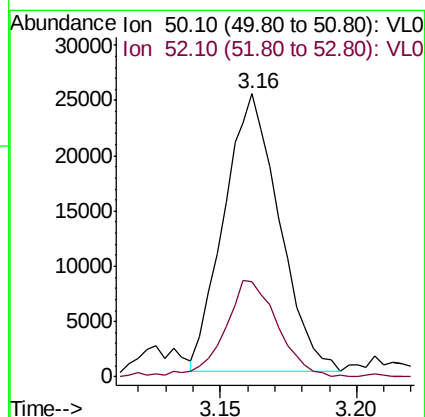
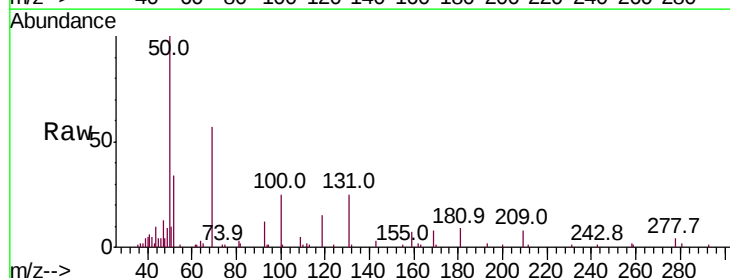
Acq: 24 Jun 2019 21:17

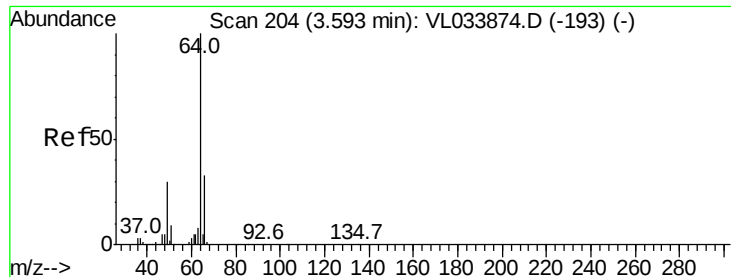
Tgt Ion: 50 Resp: 35204

Ion Ratio Lower Upper

50 100

52 34.5 25.4 38.0





#7

Chloroethane

Concen: 0.085 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

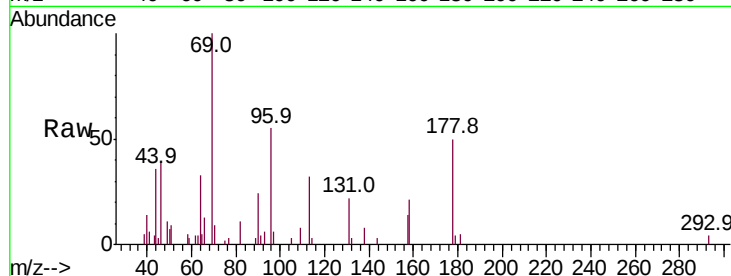
TZC-SSDS-AREA-B-1

Tot Ion: 64 Resp: 2034

Ion Ratio Lower Upper

64 100

66 33.3 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

2000

1500

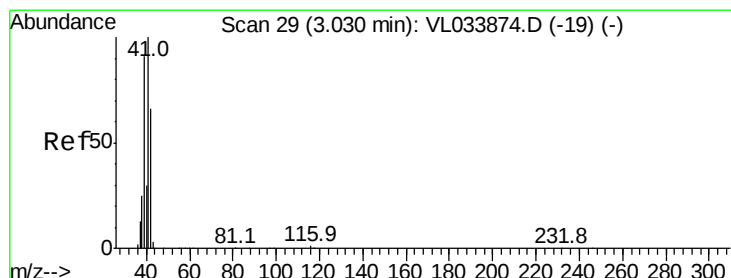
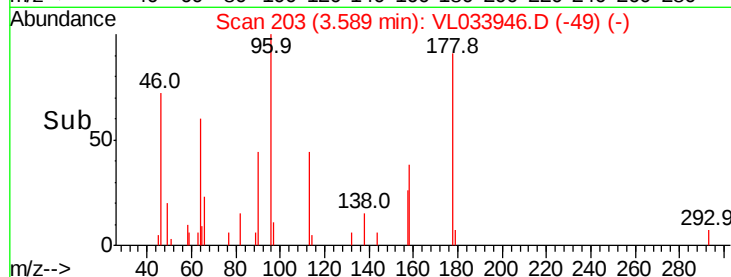
1000

500

0

Time-->

3.56 3.58 3.60



#9

Propene

Concen: 1.711 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033946.D

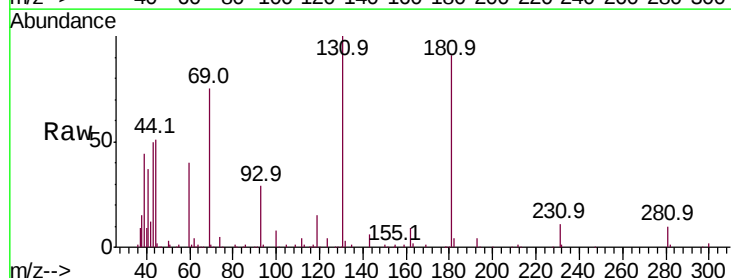
Acq: 24 Jun 2019 21:17

Tgt Ion: 41 Resp: 73273

Ion Ratio Lower Upper

41 100

42 45.0 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

60000

50000

40000

30000

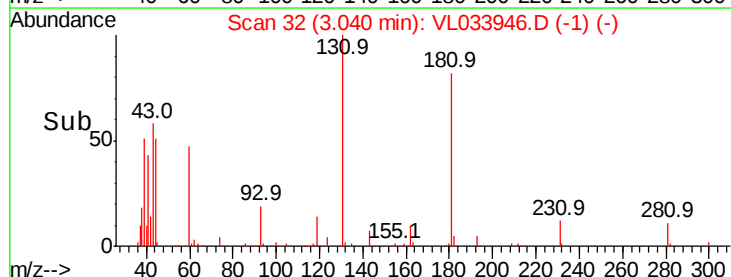
20000

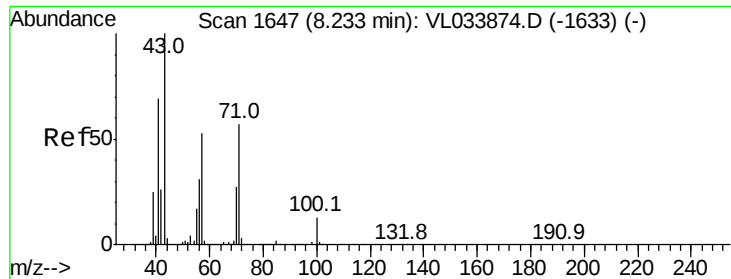
10000

0

Time-->

3.00 3.05 3.10

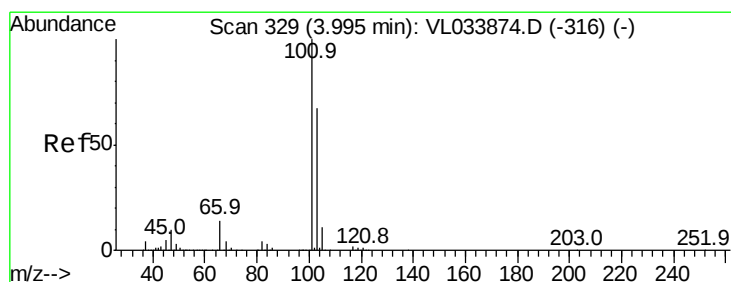
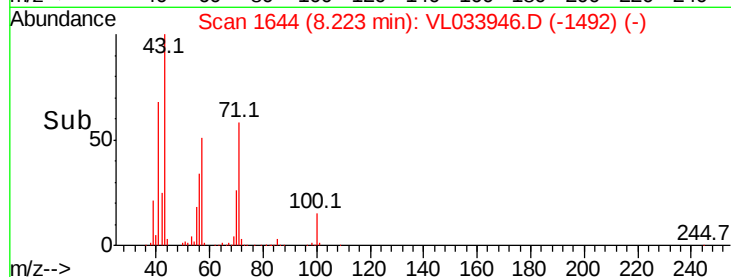
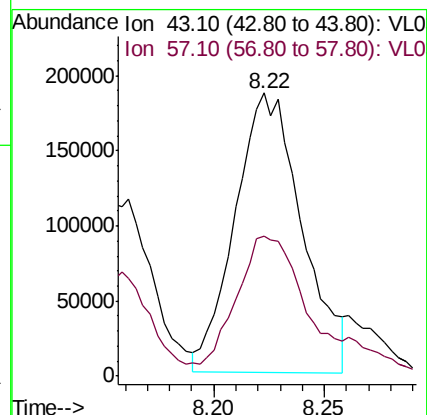
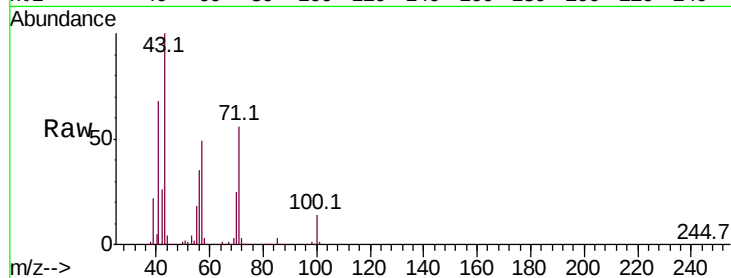




#10
 Heptane
 Concen: 3.612 ppbv
 RT: 8.22 min Scan# 1644
 Delta R.T. -0.01 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

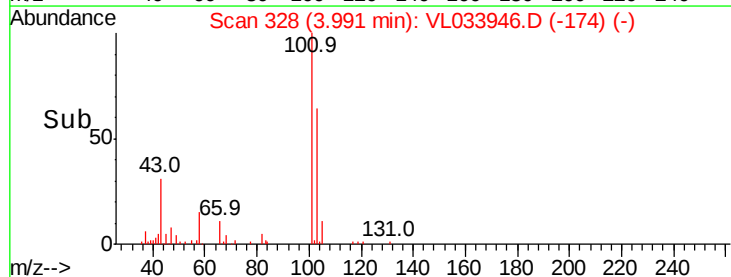
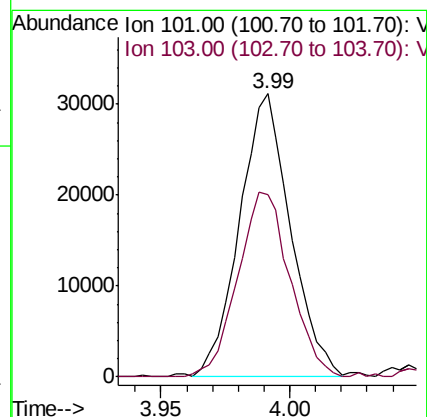
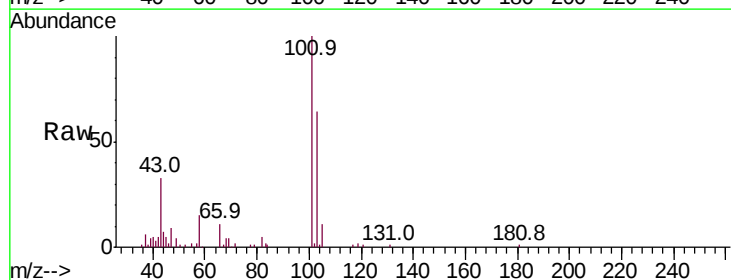
Instrument :
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 TZC-SSDS-AREA-B-1

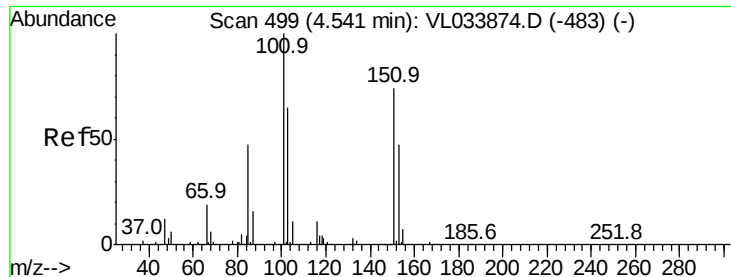
Tot Ion: 43 Resp: 390970
 Ion Ratio Lower Upper
 43 100
 57 59.3 41.7 62.5



#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv
 RT: 3.99 min Scan# 328
 Delta R.T. -0.00 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

Tgt Ion: 101 Resp: 43076
 Ion Ratio Lower Upper
 101 100
 103 64.3 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

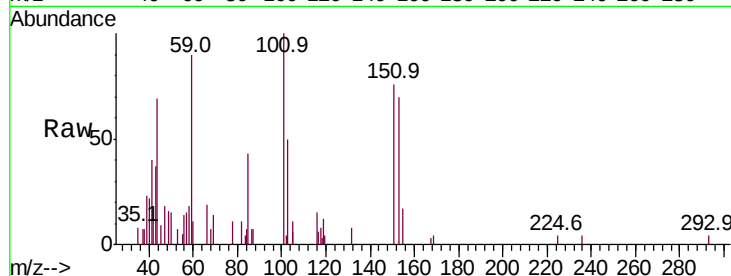
TZC-SSDS-AREA-B-1

Tot Ion:101 Resp: 8110

Ion Ratio Lower Upper

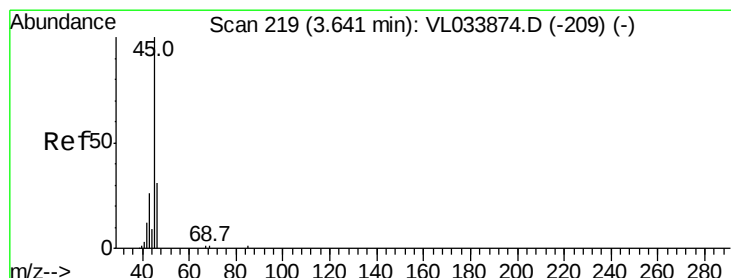
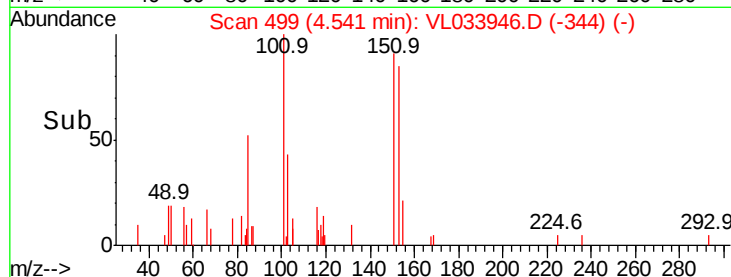
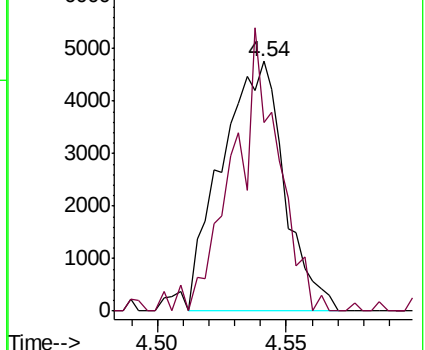
101 100

151 83.0 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 34.508 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033946.D

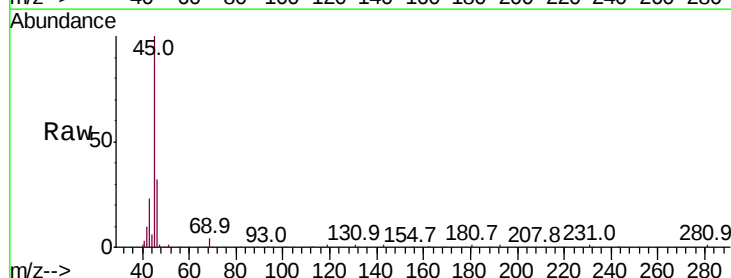
Acq: 24 Jun 2019 21:17

Tgt Ion: 45 Resp: 480758

Ion Ratio Lower Upper

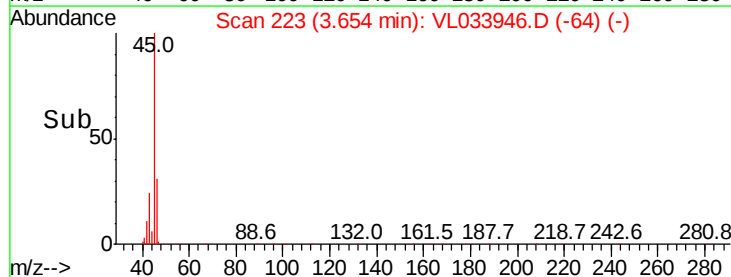
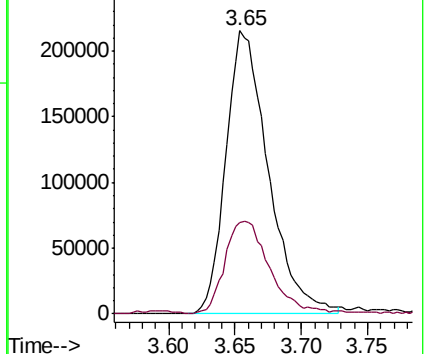
45 100

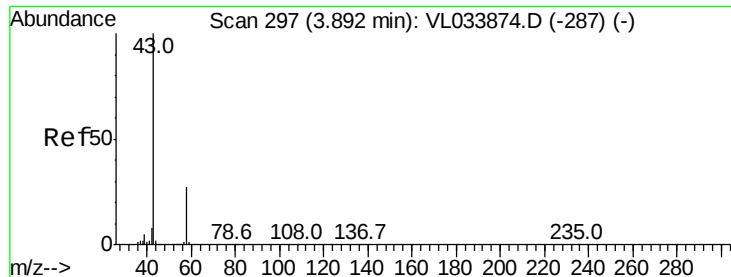
46 33.9 15.3 61.1



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 57.992 ppbv

RT: 3.88 min Scan# 294

Delta R.T. -0.01 min

Lab File: VL033946.D

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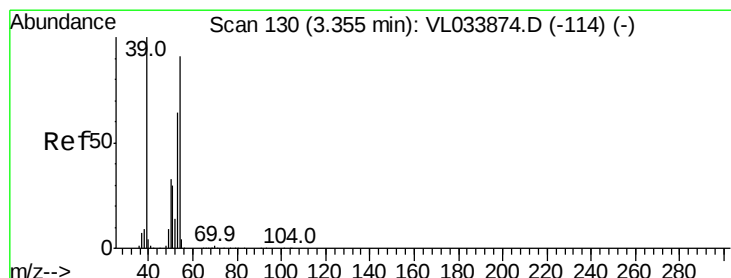
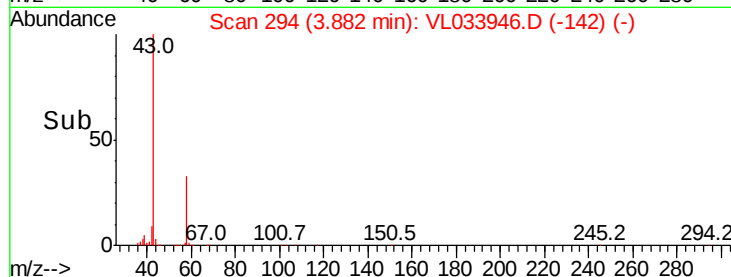
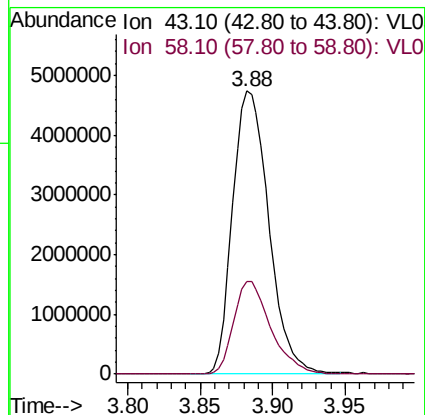
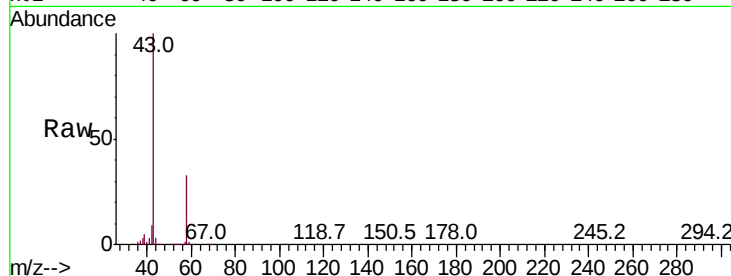
TZC-SSDS-AREA-B-1

Tot Ion: 43 Resp: 8221712

Ion Ratio Lower Upper

43 100

58 33.9 21.3 31.9#



#16

1,3-Butadiene

Concen: 3.204 ppbv

RT: 3.33 min Scan# 122

Delta R.T. -0.03 min

Lab File: VL033946.D

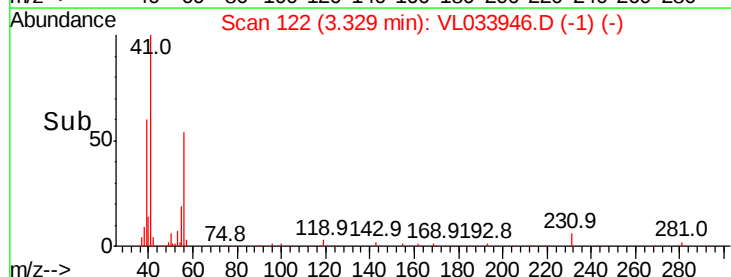
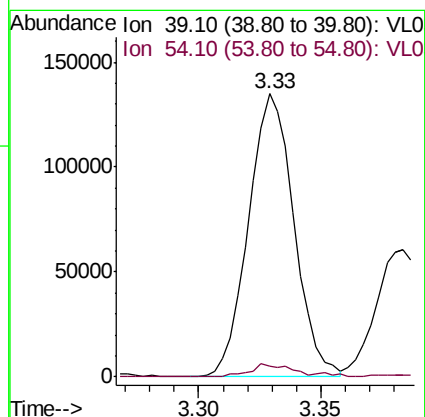
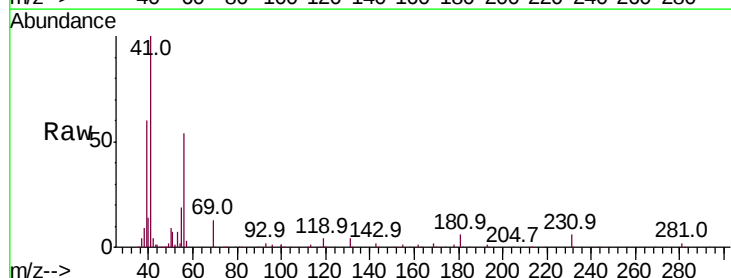
Acq: 24 Jun 2019 21:17

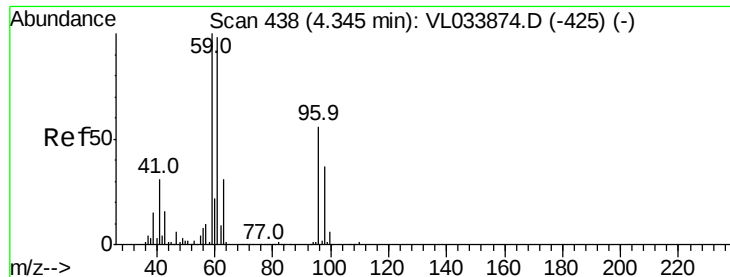
Tgt Ion: 39 Resp: 172875

Ion Ratio Lower Upper

39 100

54 4.8 68.6 103.0#





#17

tert-Butyl alcohol

Concen: 63.346 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

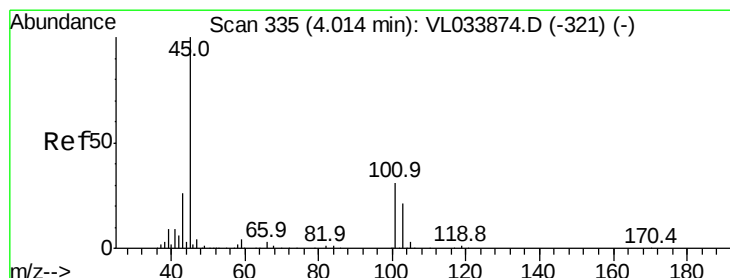
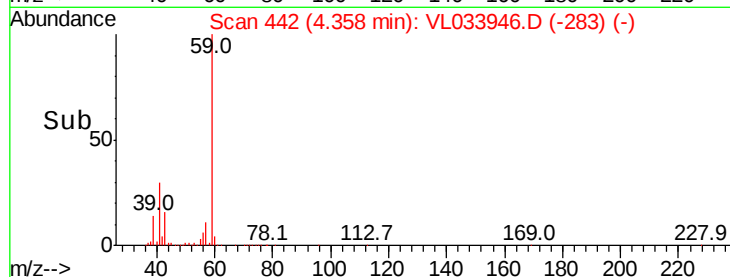
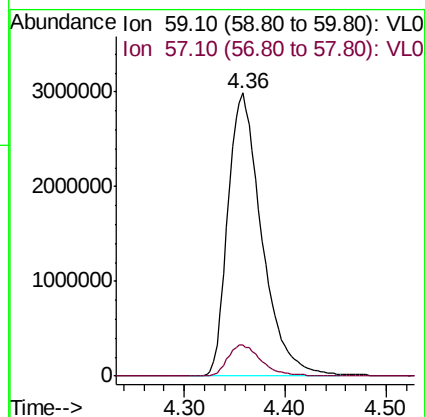
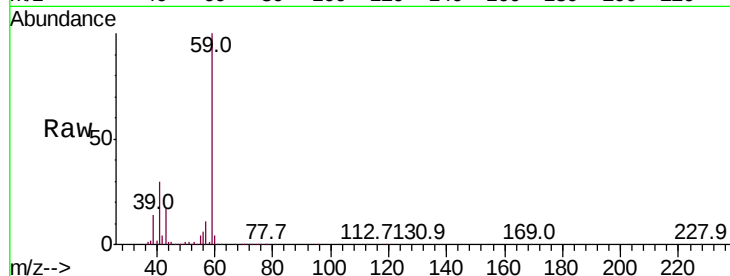
TZC-SSDS-AREA-B-1

Tot Ion: 59 Resp: 7020528

Ion Ratio Lower Upper

59 100

57 11.1 8.4 12.6



#19

Isopropyl Alcohol

Concen: 3.610 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.02 min

Lab File: VL033946.D

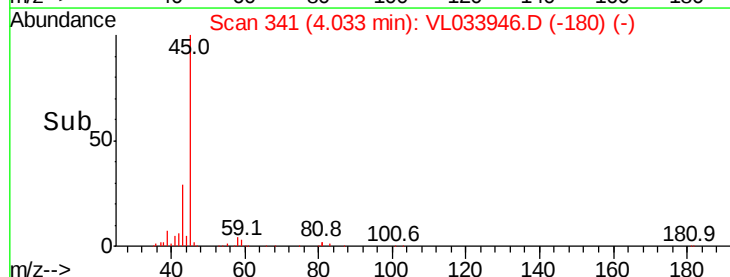
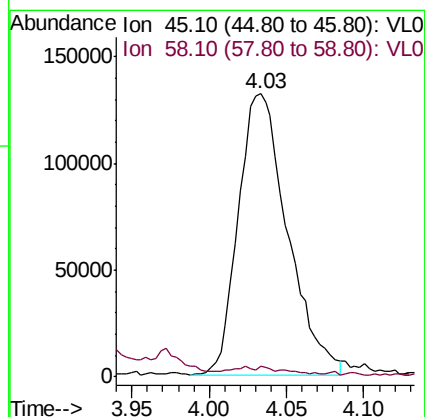
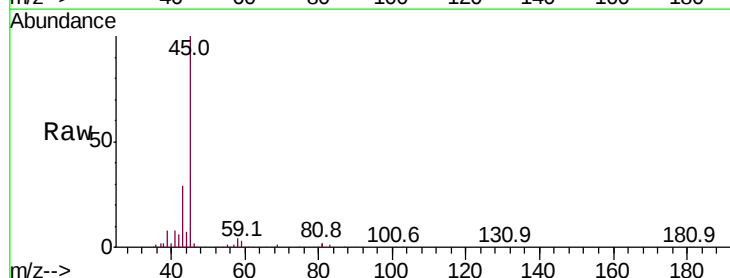
Acq: 24 Jun 2019 21:17

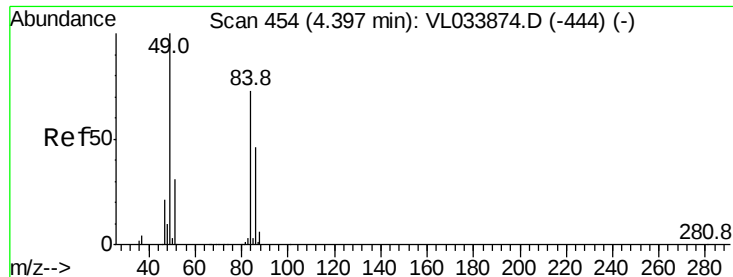
Tgt Ion: 45 Resp: 292418

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#





#20

Methylene Chloride

Concen: 4.261 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

Tot Ion: 84 Resp: 235602

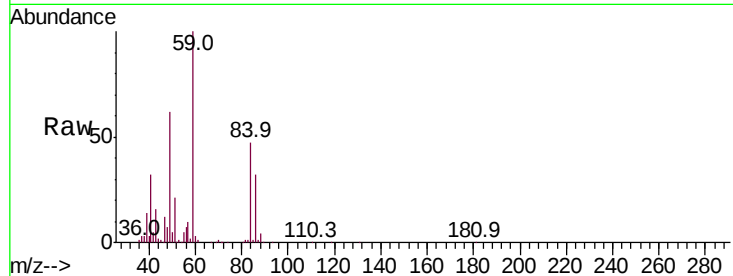
Ion Ratio Lower Upper

84 100

49 130.8 110.0 165.0

51 43.4 34.6 51.8

86 67.1 50.6 75.8

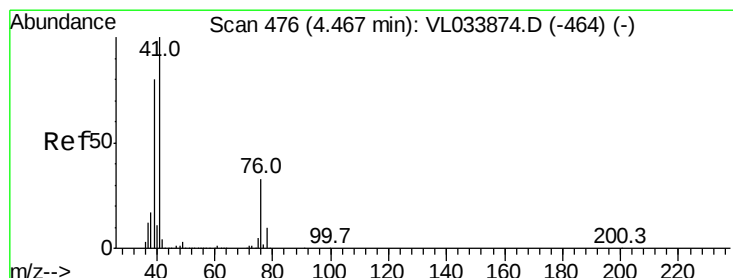
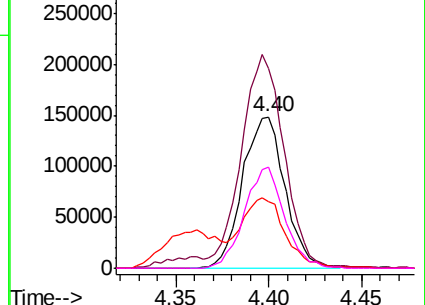
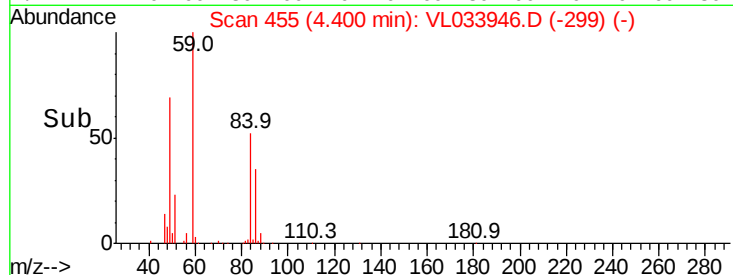


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 26.433 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.11 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

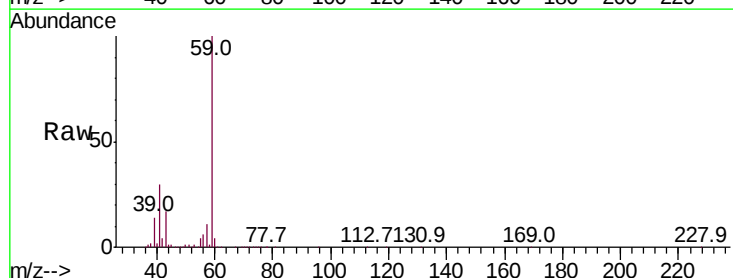
Tgt Ion: 41 Resp: 2128782

Ion Ratio Lower Upper

41 100

76 0.2 26.6 39.8#

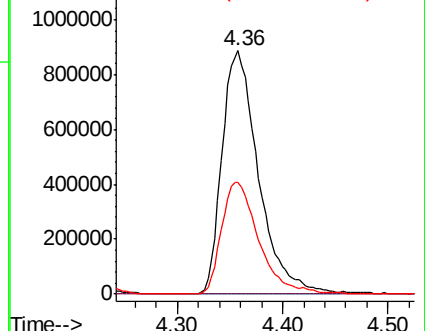
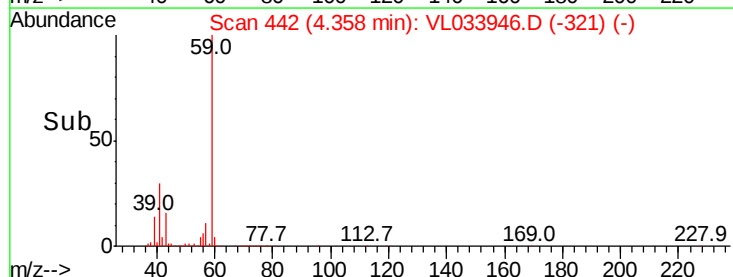
39 47.5 65.2 97.8#

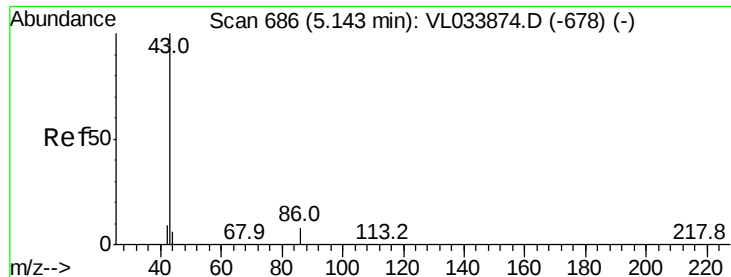


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.177 ppbv

RT: 5.13 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

Tot Ion: 43 Resp: 29232

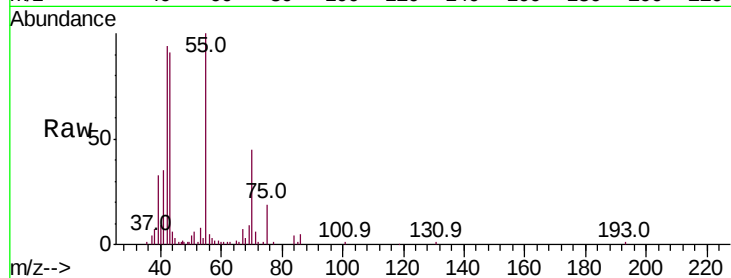
Ion Ratio Lower Upper

43 100

86 7.3 5.8 8.8

42 195.5 7.8 11.8#

44 0.0 4.2 6.4#



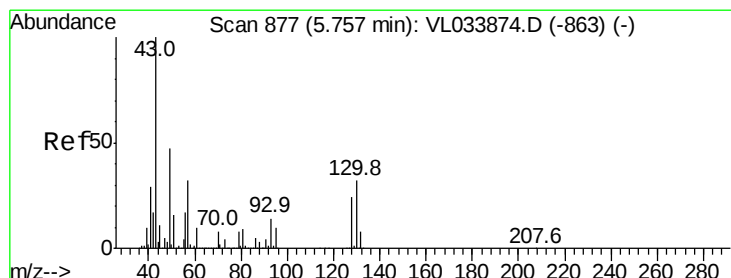
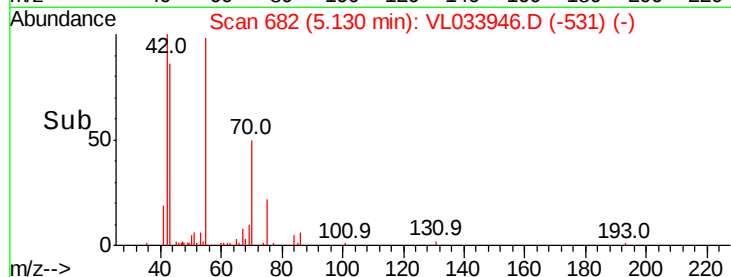
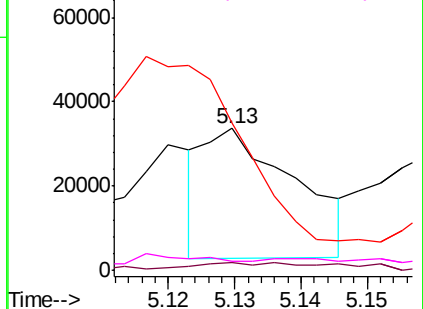
Abundance

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: 1.089 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Tgt Ion: 43 Resp: 235214

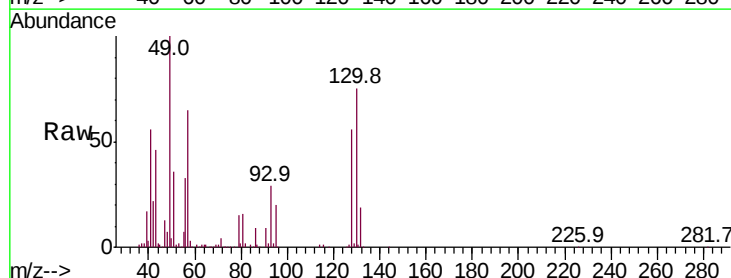
Ion Ratio Lower Upper

43 100

45 2.1 7.9 11.9#

61 1.3 7.8 11.6#

70 2.7 5.8 8.6#



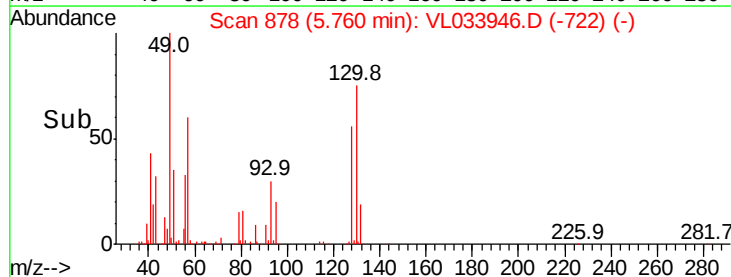
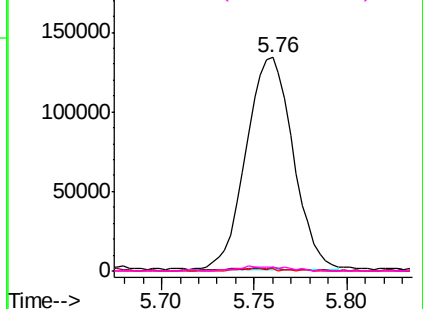
Abundance

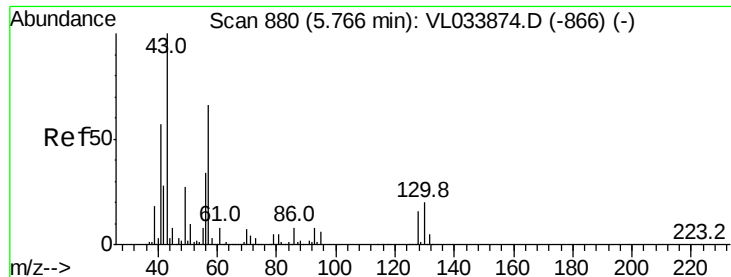
Ion 43.10 (42.80 to 43.80): VL0

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: 3.238 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

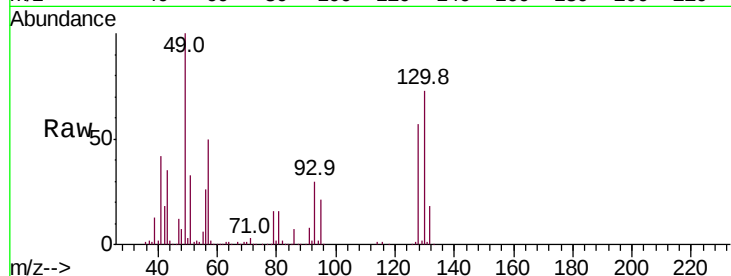
MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

Tot Ion: 57 Resp: 318322

Ion	Ratio	Lower	Upper
57	100		
41	86.2	71.4	107.2
43	74.5	183.7	275.5#
56	53.2	42.7	64.1



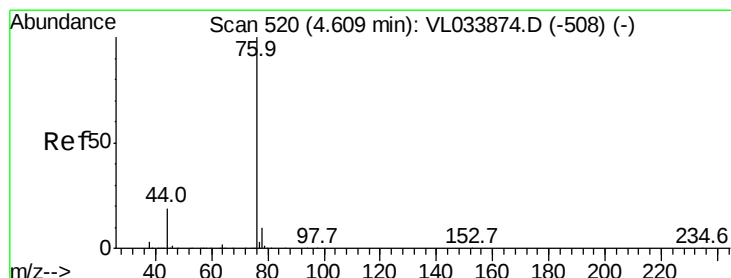
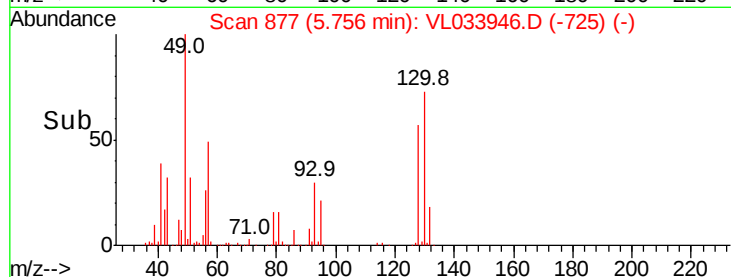
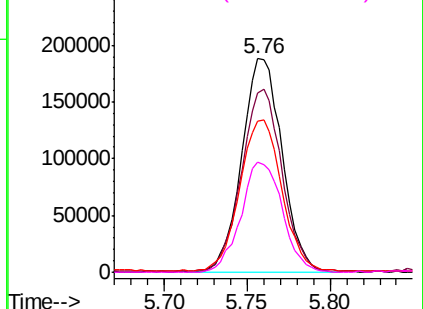
Abundance

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



#27

Carbon Disulfide

Concen: 0.550 ppbv

RT: 4.61 min Scan# 520

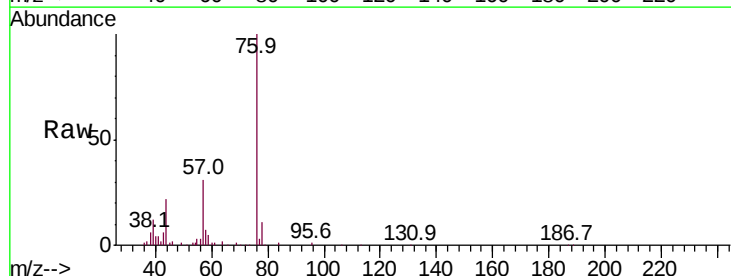
Delta R.T. -0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Tgt Ion: 76 Resp: 75050

Ion	Ratio	Lower	Upper
76	100		
44	22.2	14.4	21.6#
78	9.6	7.5	11.3

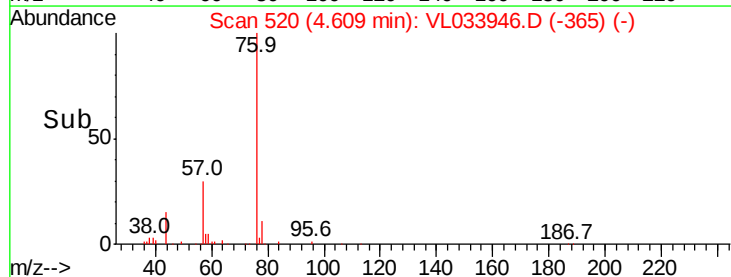
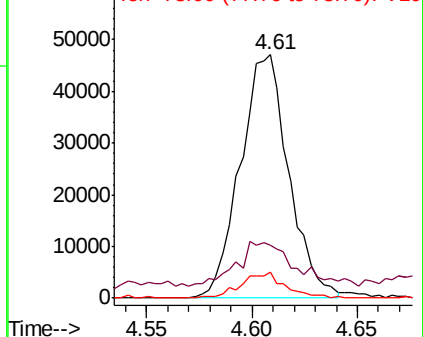


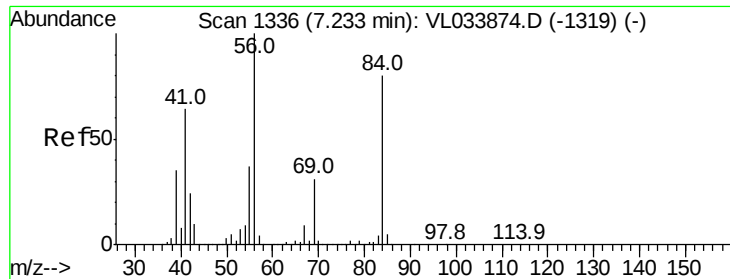
Abundance

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

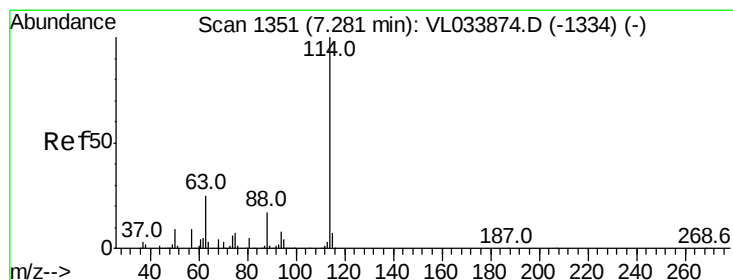
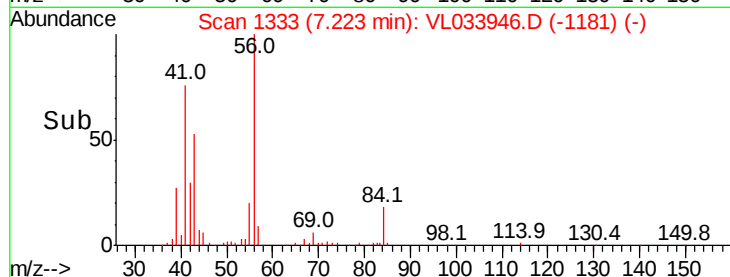
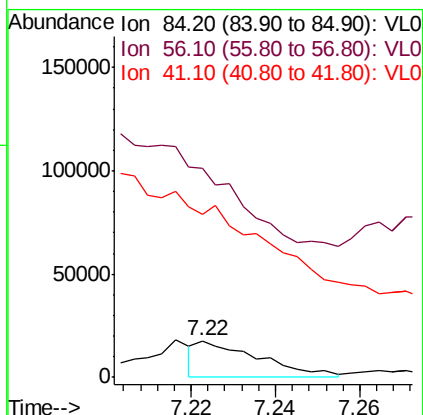
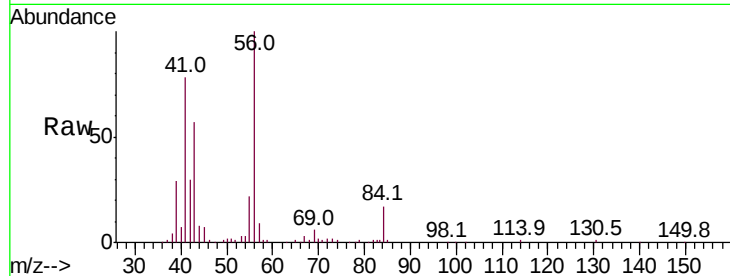




#30
Cvclohexane
Concen: 0.260 ppbv
RT: 7.22 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

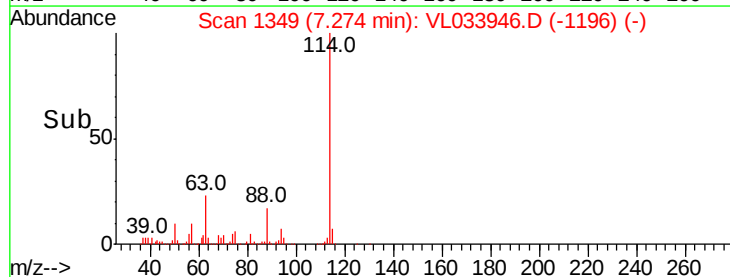
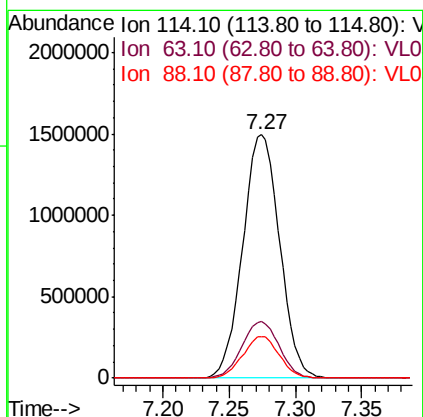
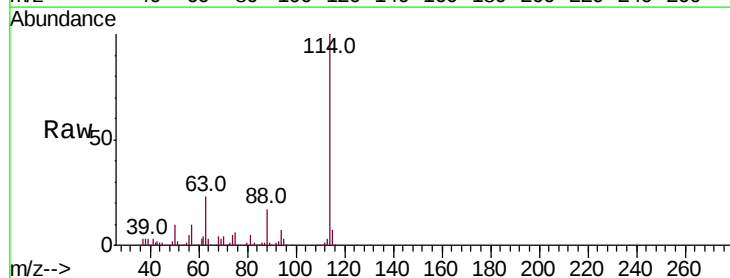
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

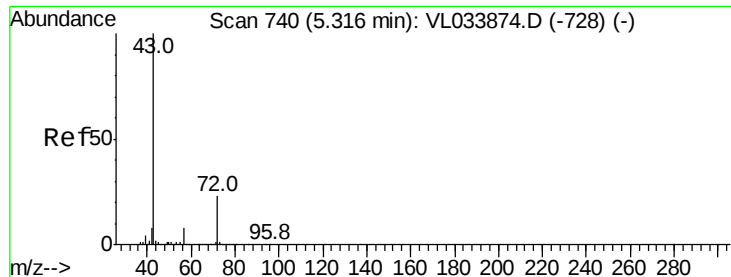
Tot Ion: 84 Resp: 18072
Ion Ratio Lower Upper
84 100
56 0.0 105.8 158.8#
41 0.0 65.7 98.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

Tgt Ion:114 Resp: 2897967
Ion Ratio Lower Upper
114 100
63 23.5 21.1 31.7
88 17.0 14.2 21.4





#34

2-Butanone

Concen: 6.649 ppbv

RT: 5.31 min Scan# 739

Delta R.T. -0.00 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

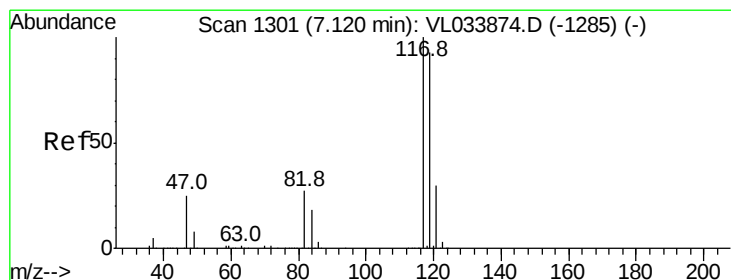
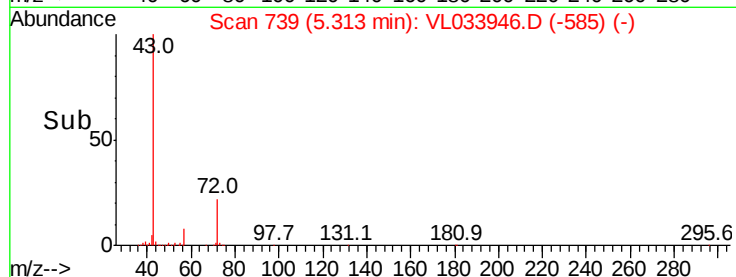
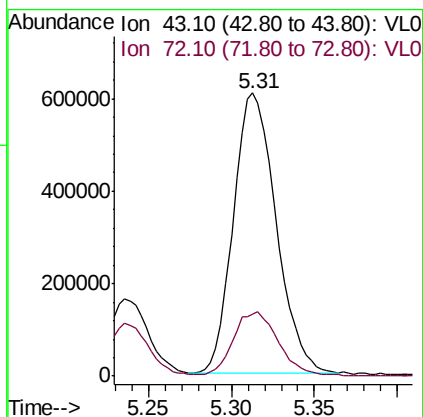
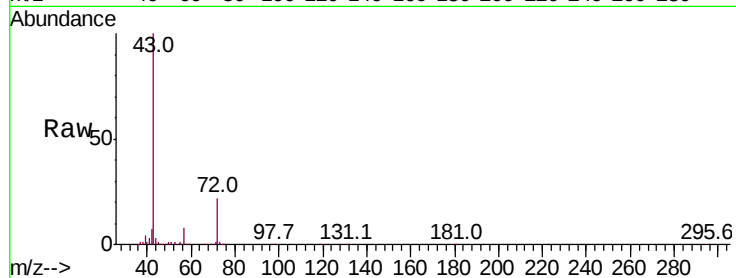
TZC-SSDS-AREA-B-1

Tot Ion: 43 Resp: 1086992

Ion Ratio Lower Upper

43 100

72 24.0 17.9 26.9



#35

Carbon Tetrachloride

Concen: 0.041 ppbv

RT: 7.11 min Scan# 1299

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

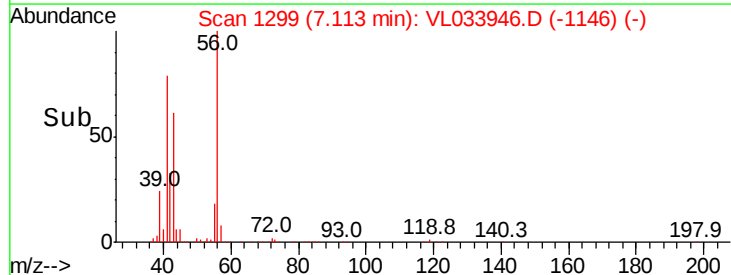
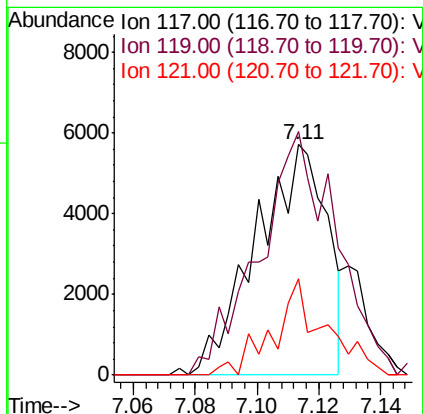
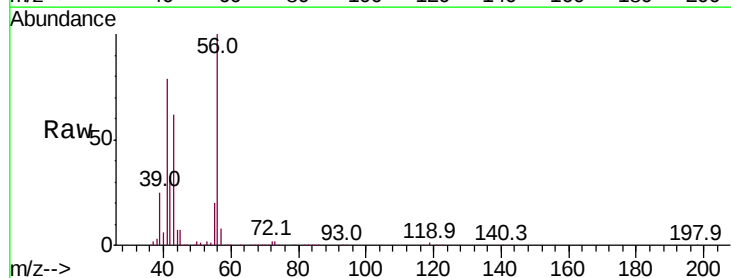
Tgt Ion: 117 Resp: 9084

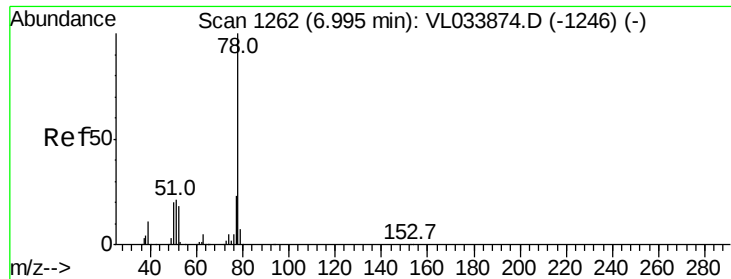
Ion Ratio Lower Upper

117 100

119 105.7 74.6 111.8

121 41.7 24.0 36.0#





#36

Benzene

Concen: 3.794 ppbv

RT: 6.98 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

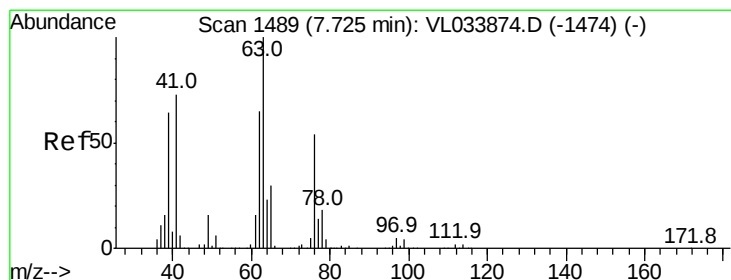
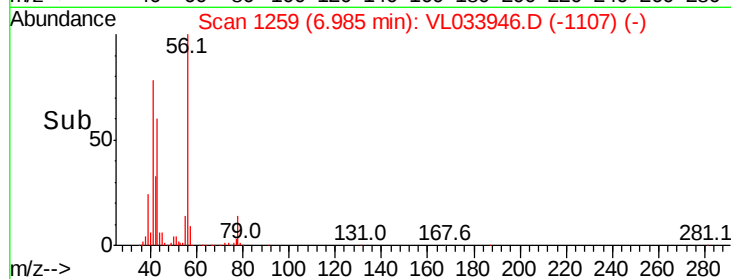
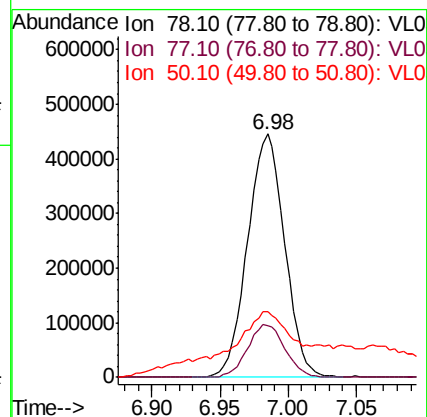
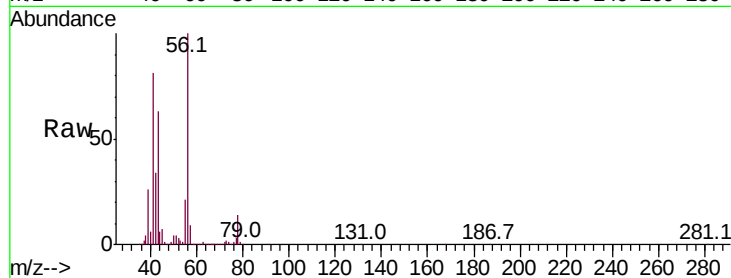
Tot Ion: 78 Resp: 839914

Ion Ratio Lower Upper

78 100

77 21.2 18.2 27.2

50 20.2 15.9 23.9



#39

1,2-Dichloropropane

Concen: 0.296 ppbv

RT: 8.15 min Scan# 1622

Delta R.T. 0.43 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

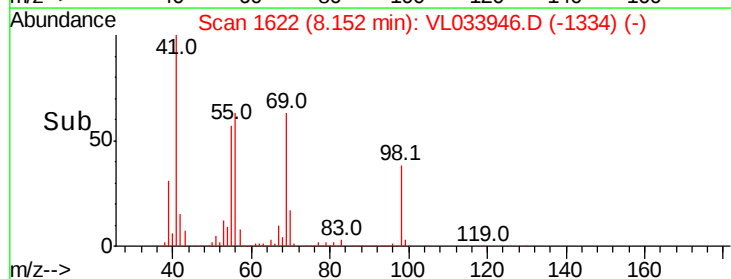
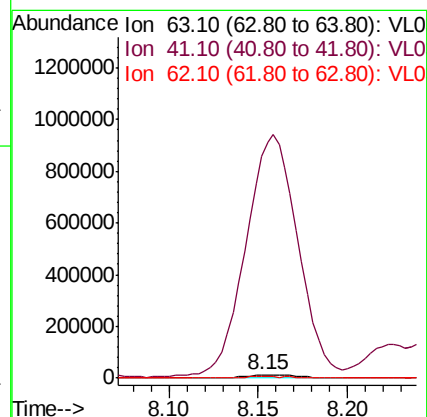
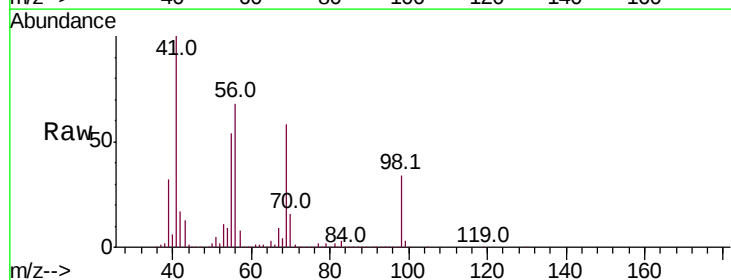
Tgt Ion: 63 Resp: 25263

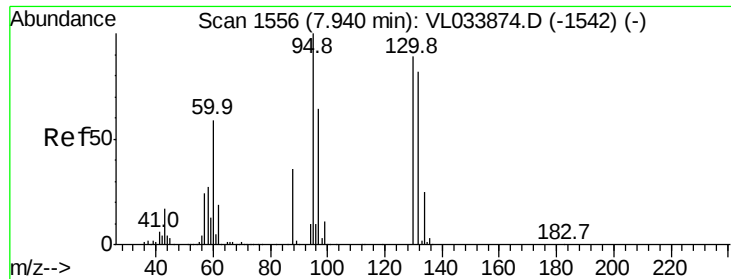
Ion Ratio Lower Upper

63 100

41 7199.8 58.7 88.1#

62 48.3 51.9 77.9#

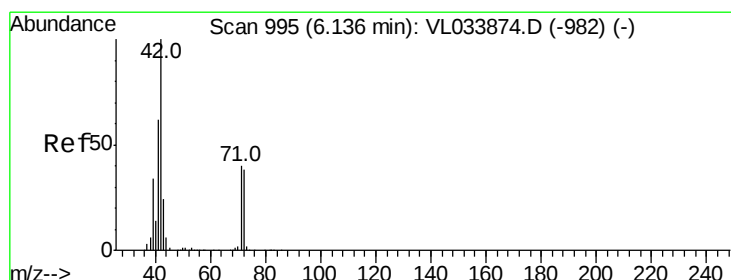
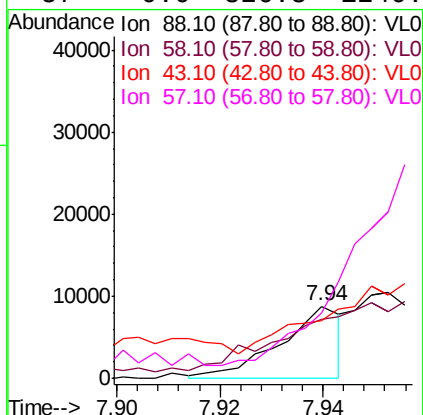
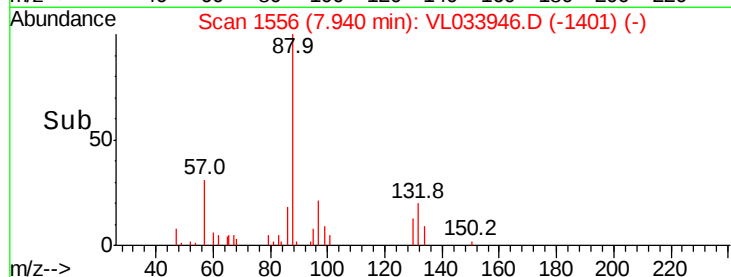
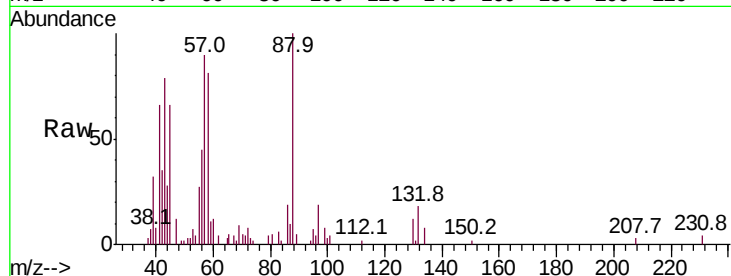




#40
1,4-Dioxane
Concen: 0.206 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. -0.00 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

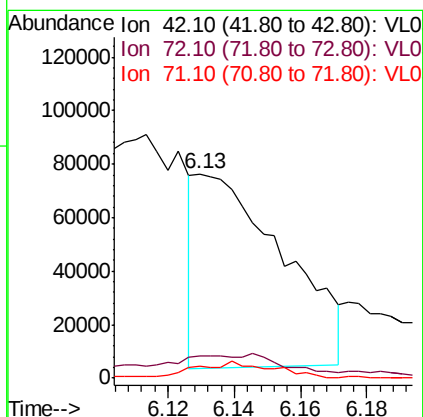
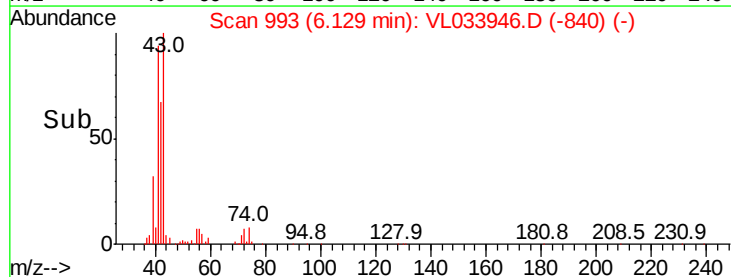
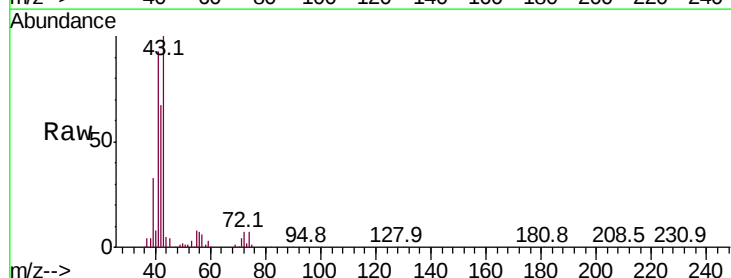
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

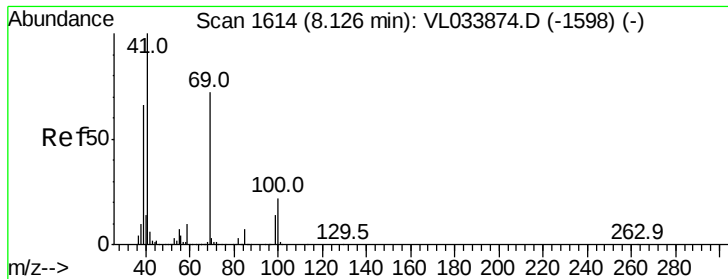
Tot Ion: 88 Resp: 7195
Ion Ratio Lower Upper
88 100
58 0.0 100.0 150.0#
43 0.0 184.7 277.1#
57 0.0 826.8 1240.2#



#41
Tetrahydrofuran
Concen: 1.589 ppbv
RT: 6.13 min Scan# 993
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

Tgt Ion: 42 Resp: 131857
Ion Ratio Lower Upper
42 100
72 24.7 32.2 48.4#
71 8.5 31.7 47.5#





#43

Methyl Methacrylate

Concen: 13.716 ppbv

RT: 8.16 min Scan# 1624

Delta R.T. 0.03 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

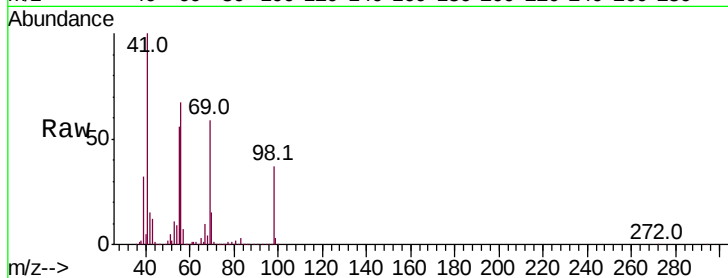
Tot Ion: 69 Resp: 1135568

Ion Ratio Lower Upper

69 100

41 168.5 114.3 171.5

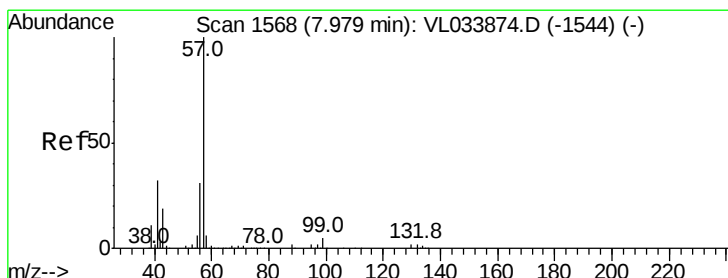
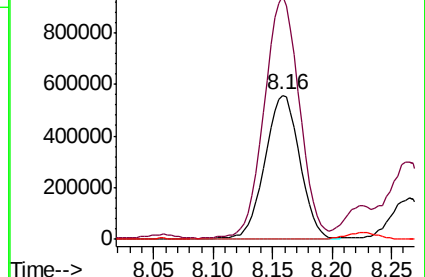
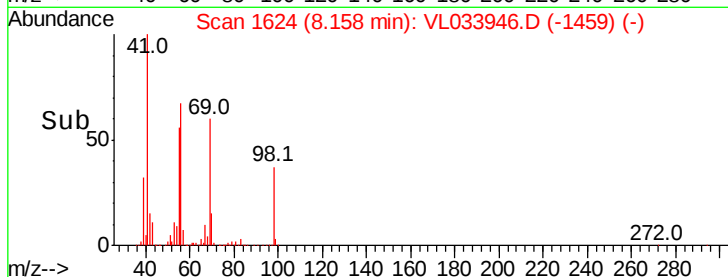
100 0.6 24.8 37.2#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.202 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

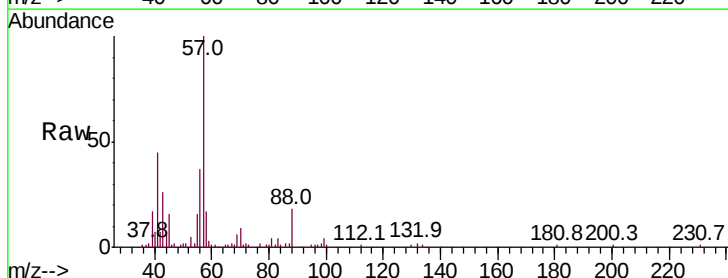
Tgt Ion: 57 Resp: 79442

Ion Ratio Lower Upper

57 100

41 0.0 26.1 39.1#

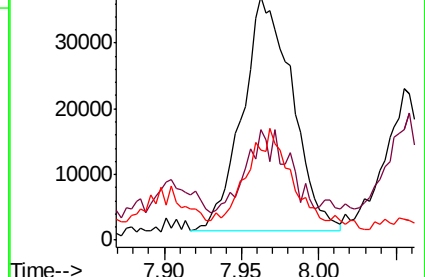
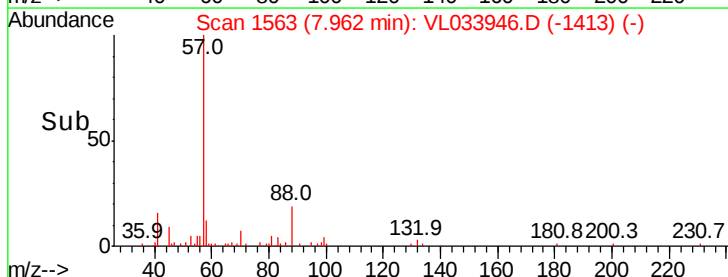
56 0.0 24.6 36.8#

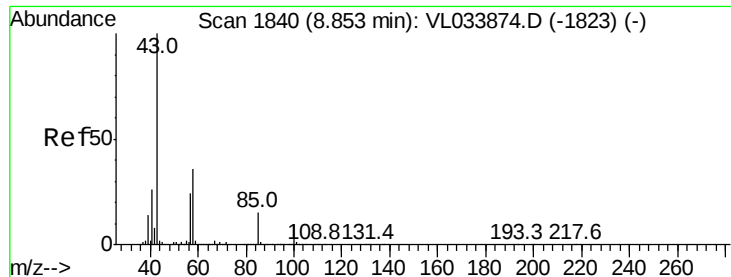


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

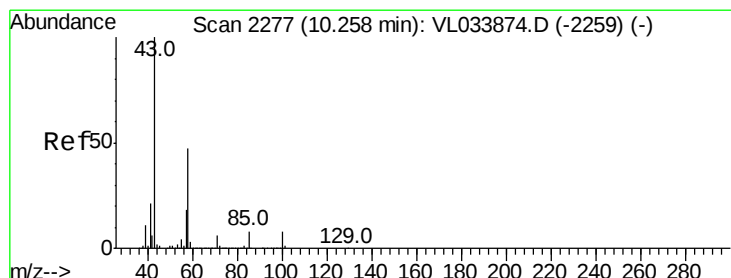
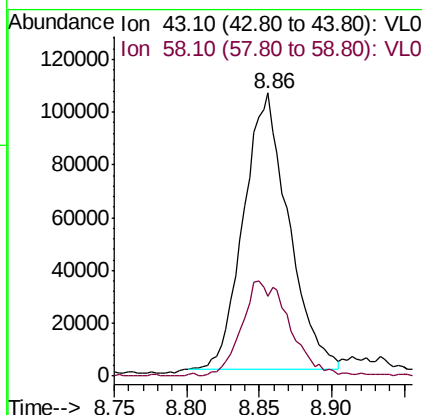
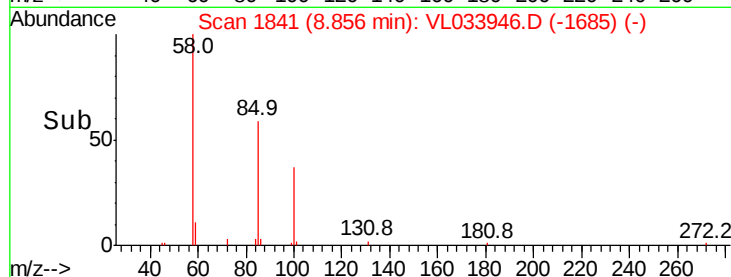
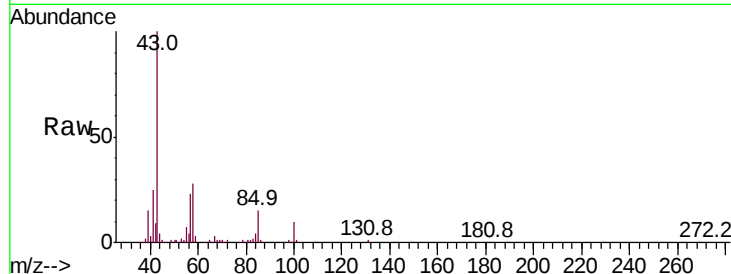




#50
 4-Methyl-2-Pentanone
 Concen: 0.932 ppbv
 RT: 8.86 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

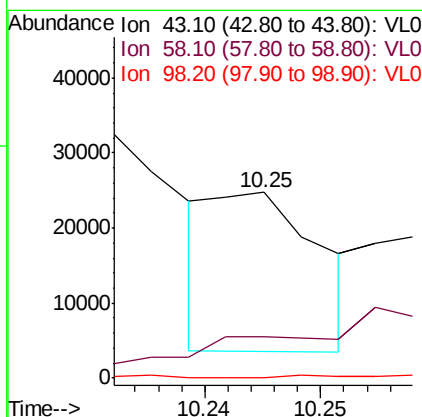
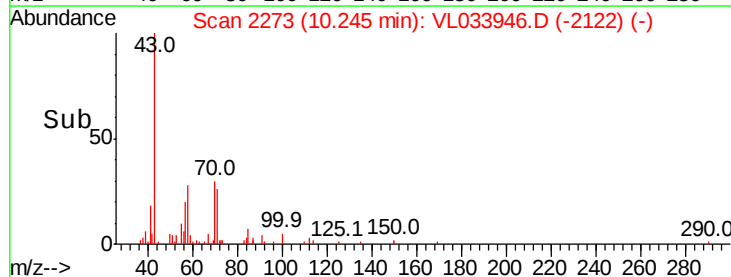
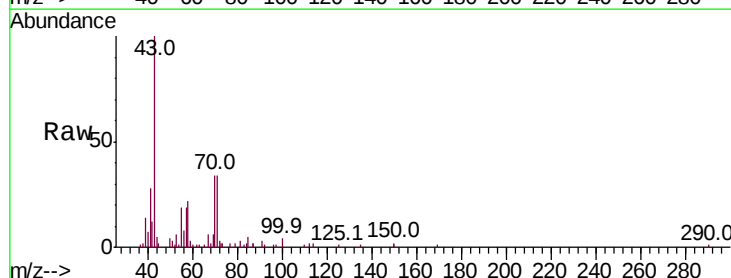
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1

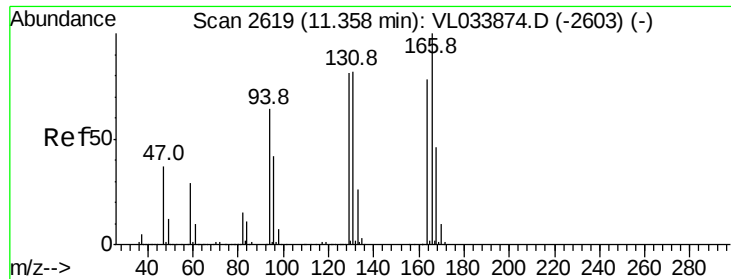
Tot Ion: 43 Resp: 227289
 Ion Ratio Lower Upper
 43 100
 58 36.6 28.6 42.8



#51
 2-Hexanone
 Concen: 0.071 ppbv
 RT: 10.25 min Scan# 2273
 Delta R.T. -0.01 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

Tgt Ion: 43 Resp: 13524
 Ion Ratio Lower Upper
 43 100
 58 209.3 38.2 57.4#
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.167 ppbv

RT: 11.35 min Scan# 2617

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

Tot Ion:164 Resp: 13046

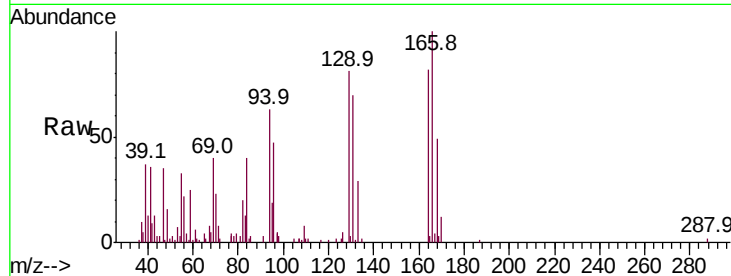
Ion Ratio Lower Upper

164 100

166 118.2 103.1 154.7

129 98.7 83.9 125.9

131 82.7 85.1 127.7#

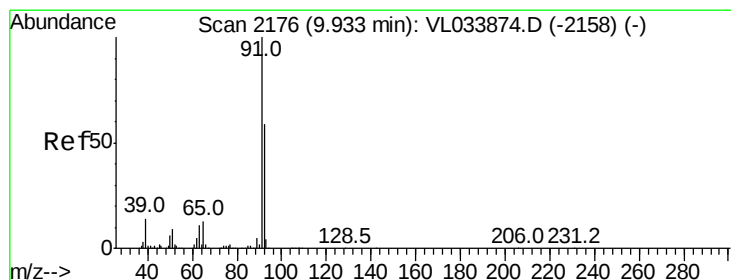
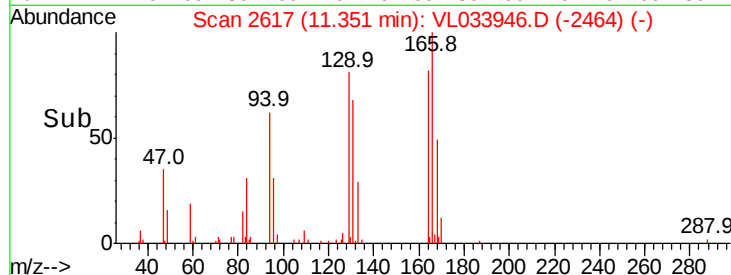
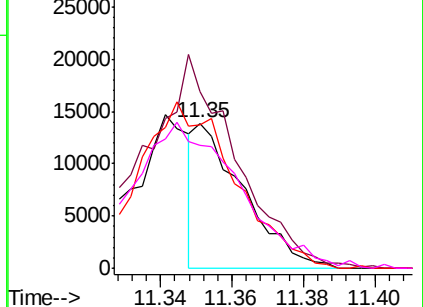


Abundance Ion 163.90 (163.60 to 164.60): V

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: 14.993 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033946.D

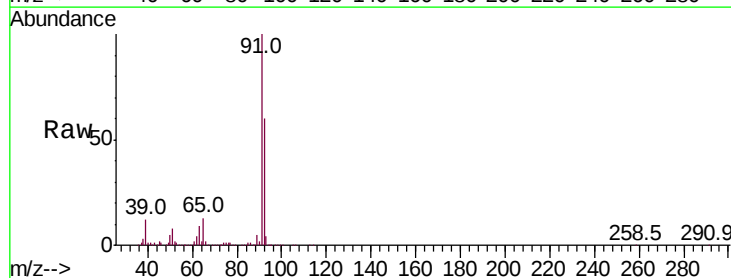
Acq: 24 Jun 2019 21:17

Tgt Ion: 91 Resp: 3672981

Ion Ratio Lower Upper

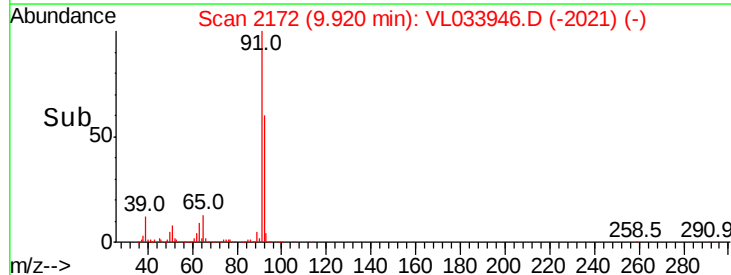
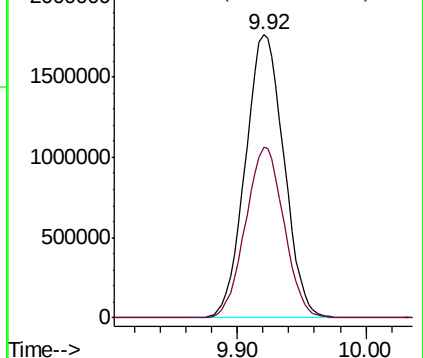
91 100

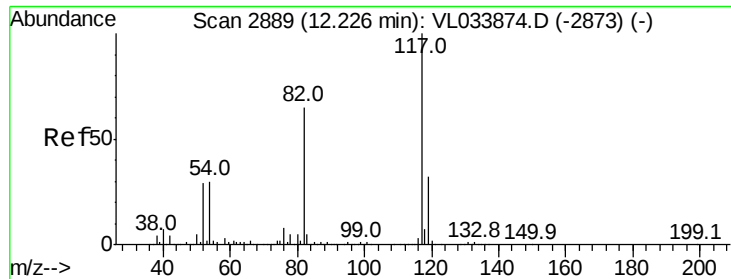
92 60.3 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

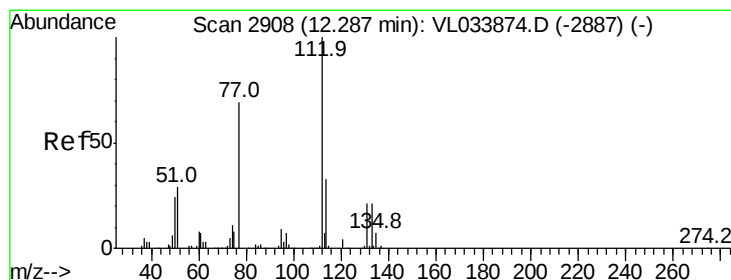
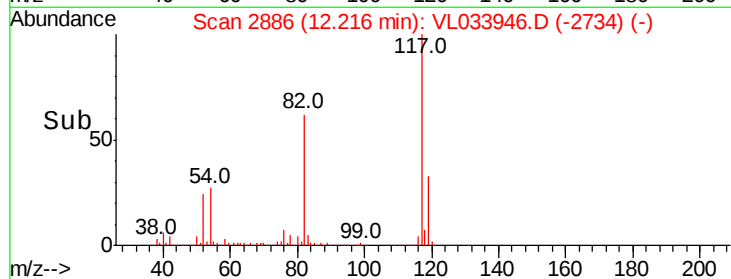
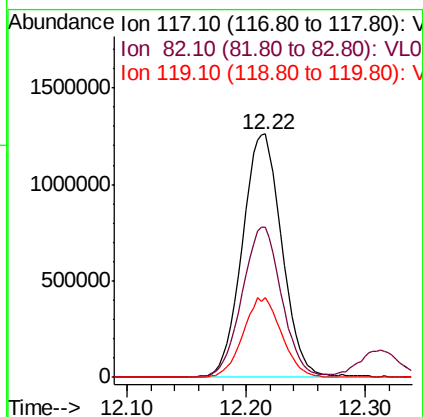
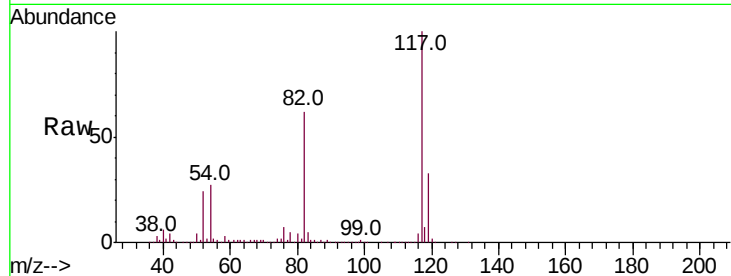




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.22 min Scan# 2886
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

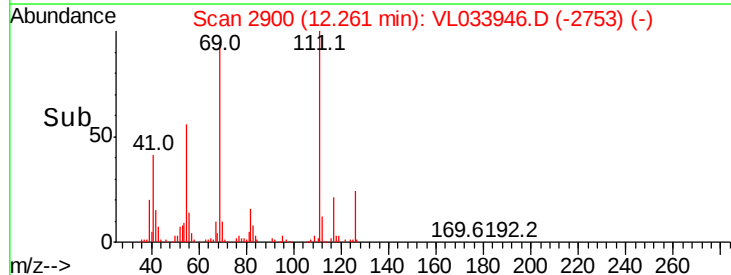
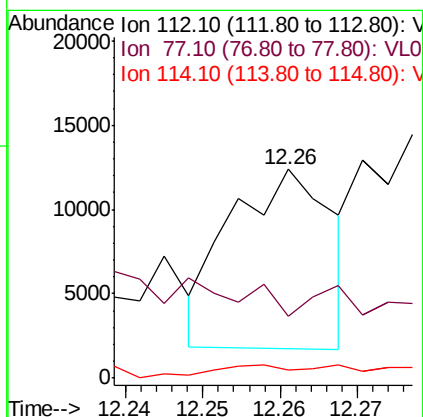
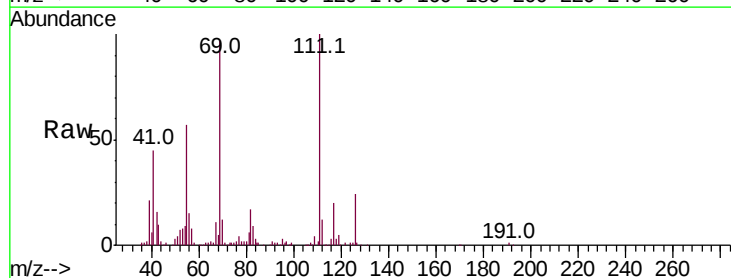
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

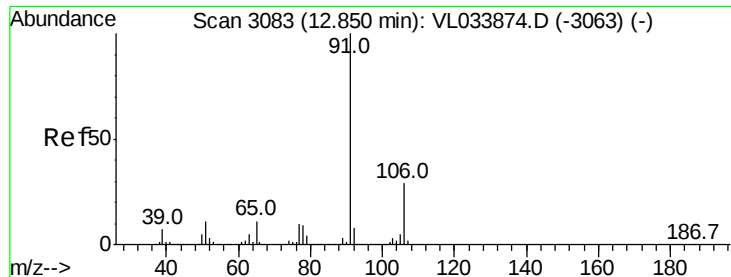
Tot Ion:117 Resp: 2893075
Ion Ratio Lower Upper
117 100
82 61.8 50.2 75.2
119 32.2 24.8 37.2



#57
Chlorobenzene
Concen: 0.045 ppbv
RT: 12.26 min Scan# 2900
Delta R.T. -0.03 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

Tgt Ion:112 Resp: 9743
Ion Ratio Lower Upper
112 100
77 0.0 55.8 83.6#
114 2.3 29.8 36.4#





#58

Ethyl Benzene

Concen: 6.940 ppbv

RT: 12.84 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

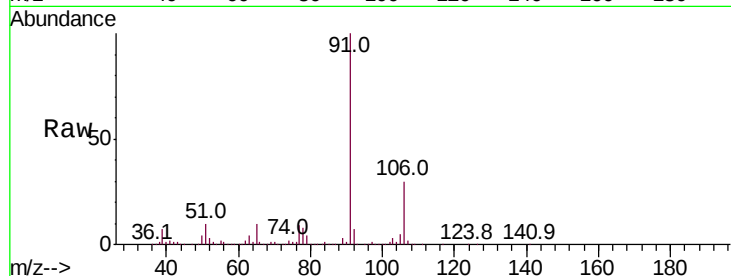
TZC-SSDS-AREA-B-1

Tot Ion: 91 Resp: 2263819

Ion Ratio Lower Upper

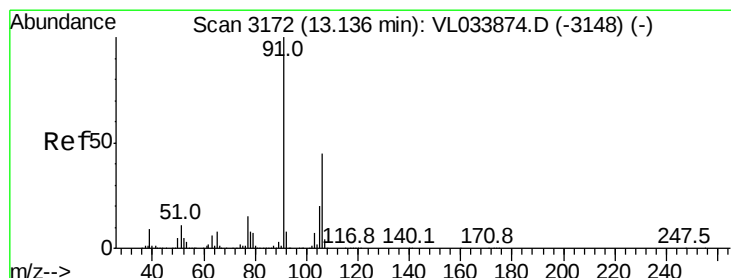
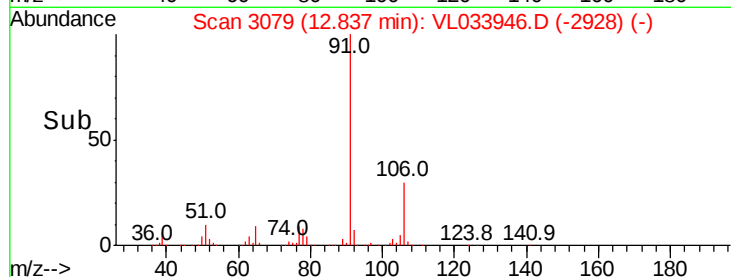
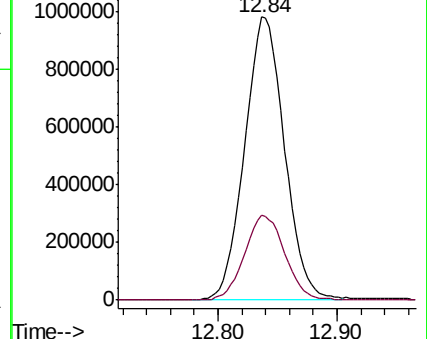
91 100

106 29.9 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 24.822 ppbv

RT: 13.10 min Scan# 3161

Delta R.T. -0.04 min

Lab File: VL033946.D

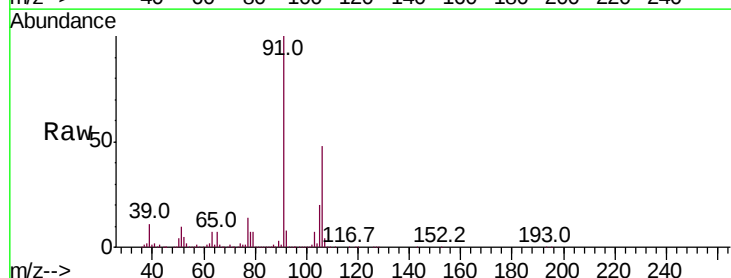
Acq: 24 Jun 2019 21:17

Tgt Ion: 91 Resp: 7362550

Ion Ratio Lower Upper

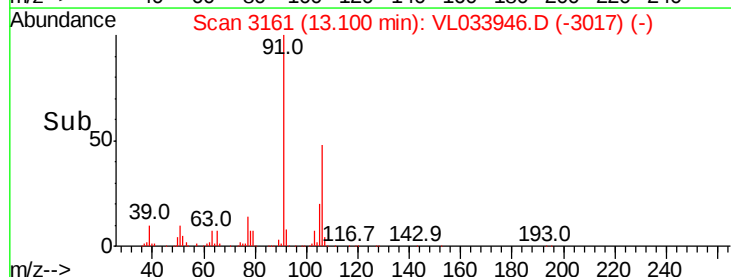
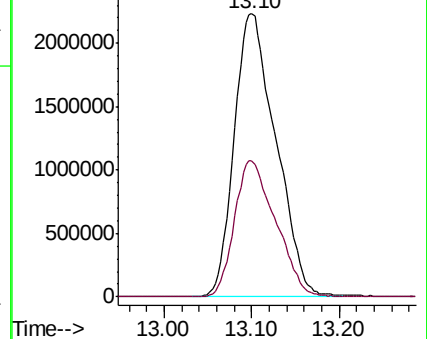
91 100

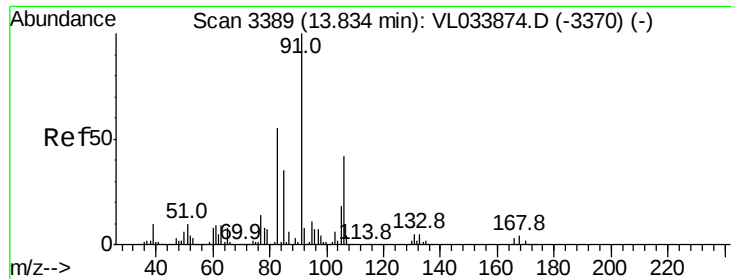
106 47.9 35.8 53.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

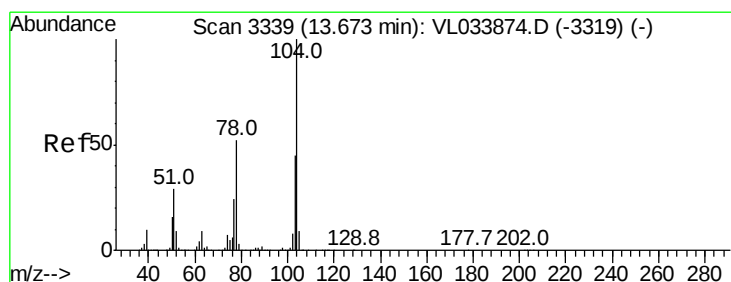
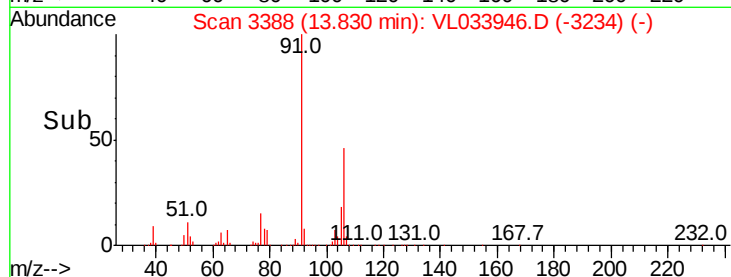
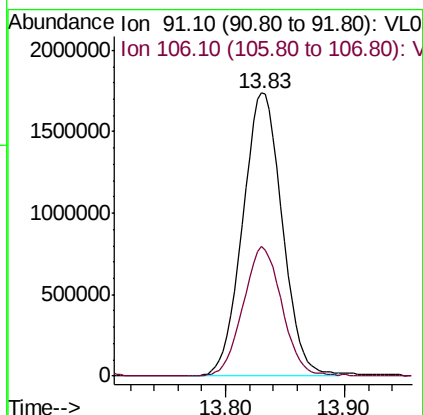
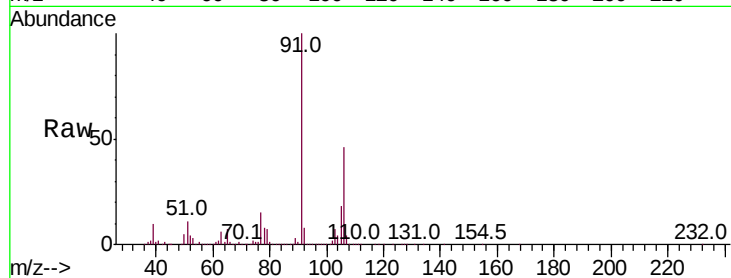




#60
o-Xylene
Concen: 13.057 ppbv
RT: 13.83 min Scan# 3388
Delta R.T. -0.00 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

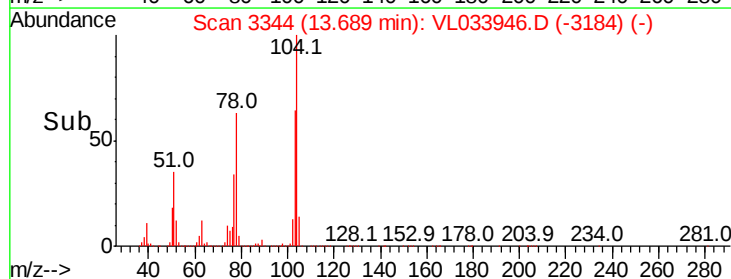
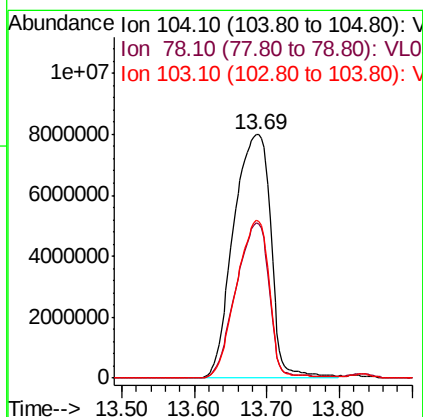
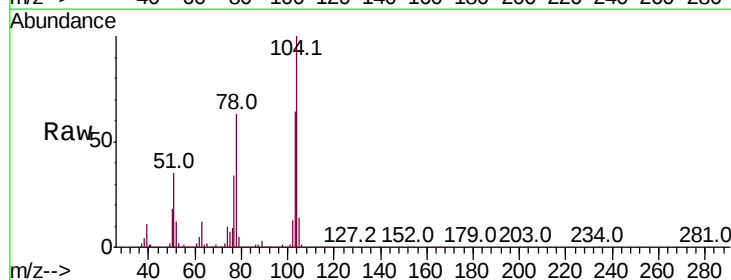
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

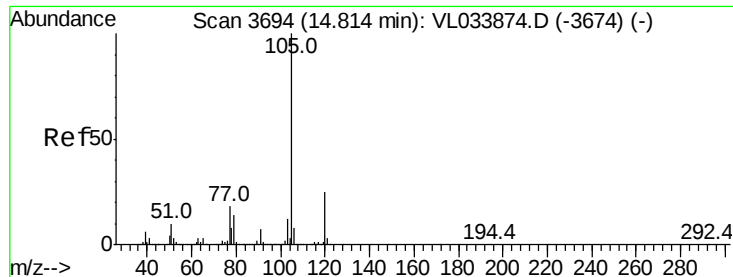
Tot Ion: 91 Resp: 3998723
Ion Ratio Lower Upper
91 100
106 45.3 21.7 65.1



#61
Styrene
Concen: 144.823 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.02 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

Tgt Ion:104 Resp:28701967
Ion Ratio Lower Upper
104 100
78 56.5 43.4 65.0
103 57.2 37.6 56.4#





#62

Isopropylbenzene

Concen: 4.684 ppbv

RT: 14.81 min Scan# 3692

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

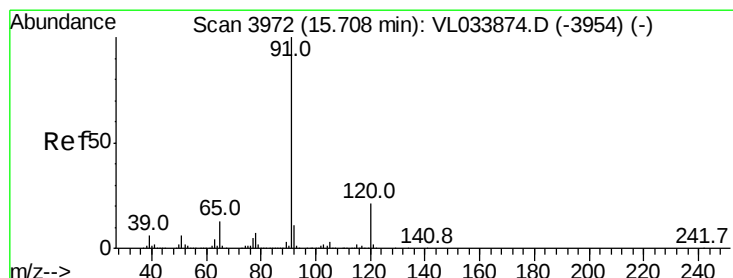
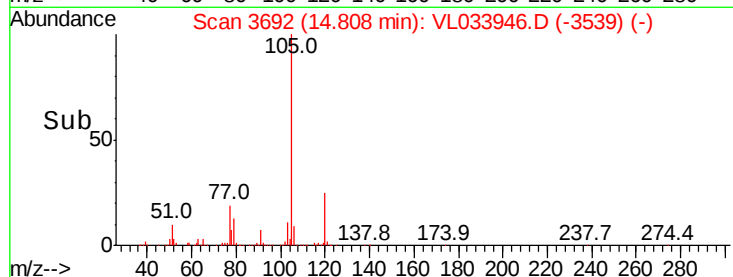
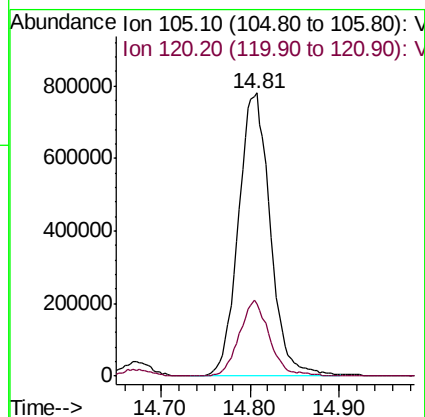
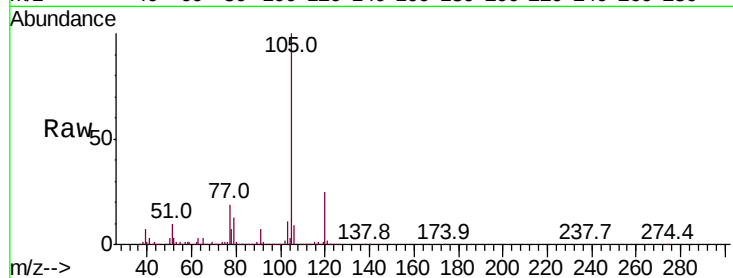
TZC-SSDS-AREA-B-1

Tot Ion:105 Resp: 1933532

Ion Ratio Lower Upper

105 100

120 25.8 20.3 30.5



#64

n-propylbenzene

Concen: 3.952 ppbv

RT: 15.70 min Scan# 3970

Delta R.T. -0.01 min

Lab File: VL033946.D

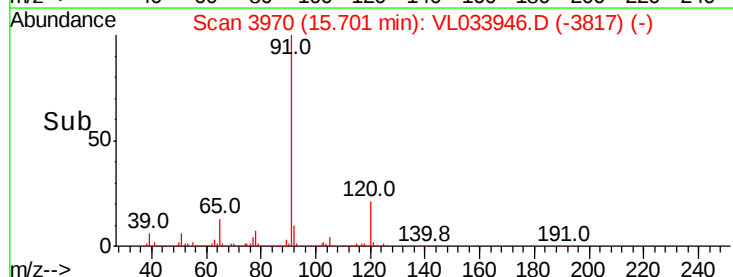
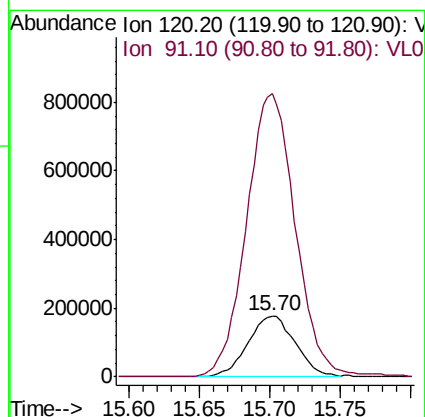
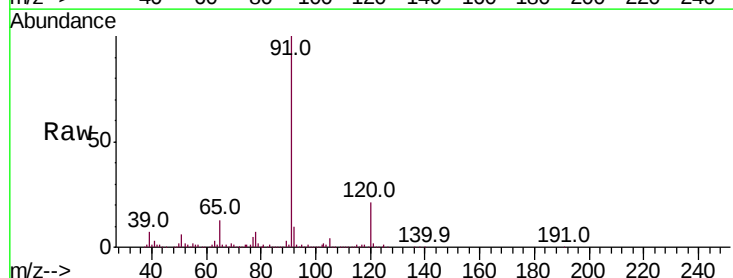
Acq: 24 Jun 2019 21:17

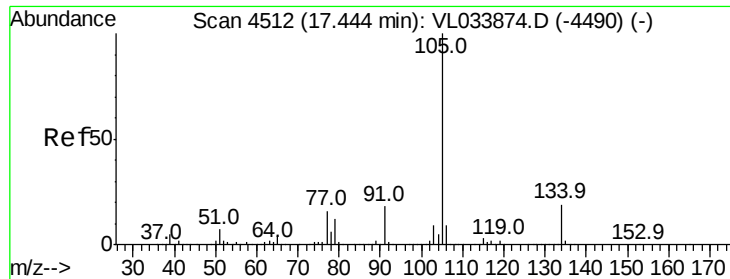
Tgt Ion:120 Resp: 417716

Ion Ratio Lower Upper

120 100

91 478.8 387.0 580.6





#67

sec-Butylbenzene

Concen: 0.033 ppbv

RT: 17.44 min Scan# 4510

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

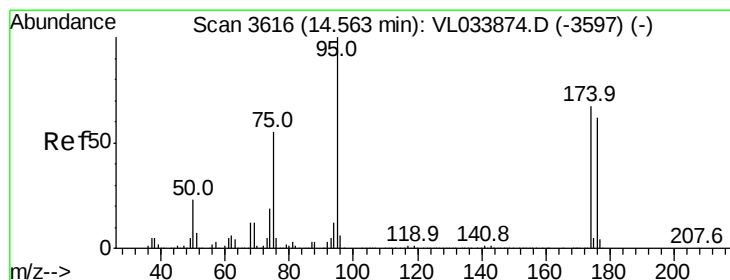
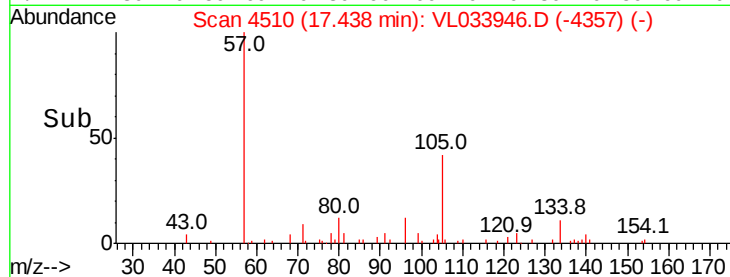
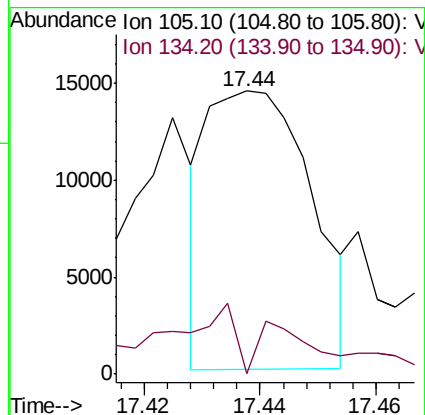
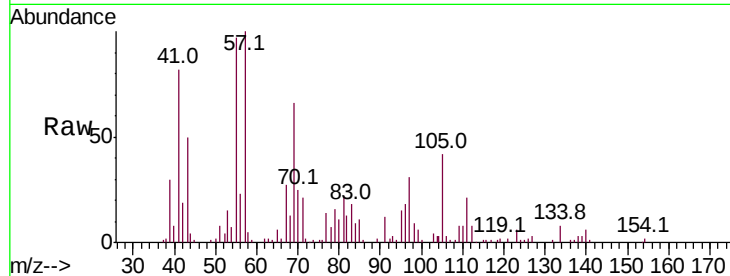
TZC-SSDS-AREA-B-1

Tot Ion:105 Resp: 17937

Ion Ratio Lower Upper

105 100

134 34.6 14.6 22.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.880 ppbv

RT: 14.56 min Scan# 3614

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

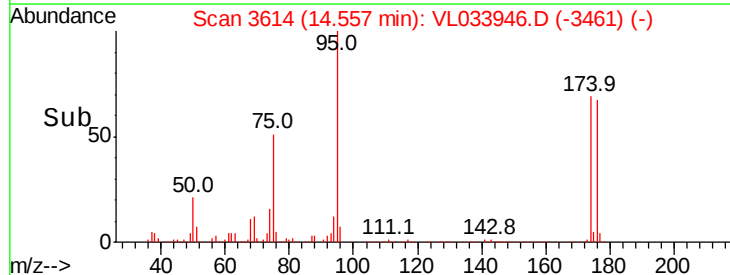
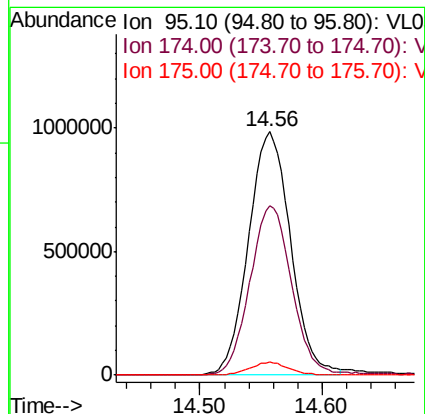
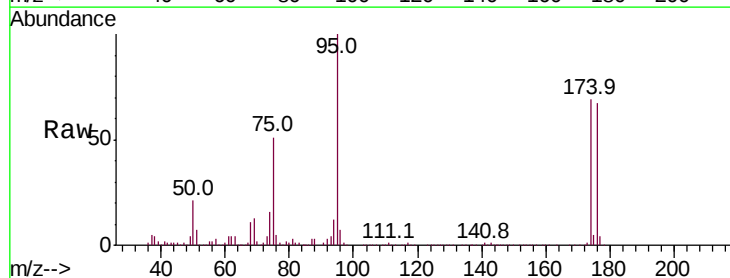
Tgt Ion: 95 Resp: 2347781

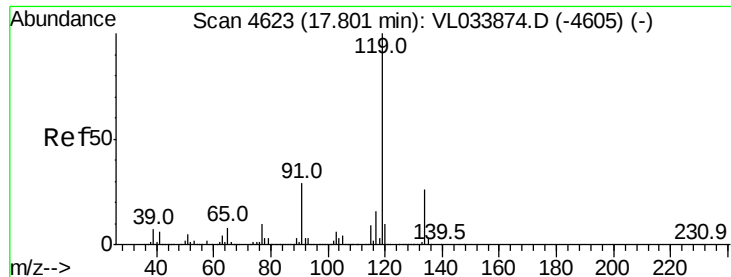
Ion Ratio Lower Upper

95 100

174 70.0 54.0 81.0

175 5.0 3.8 5.8

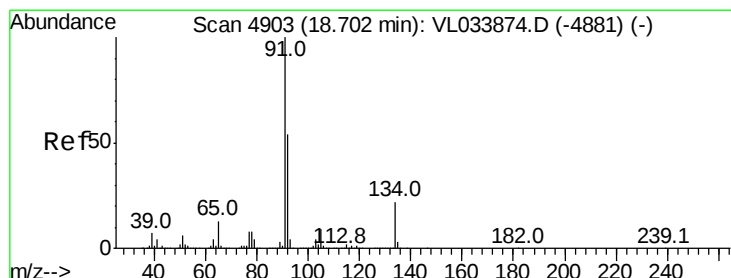
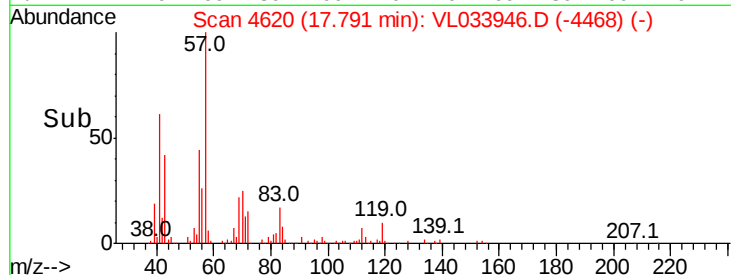
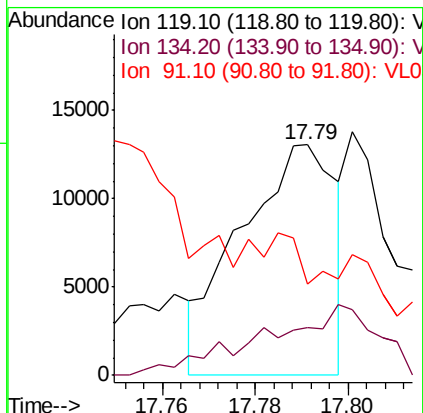
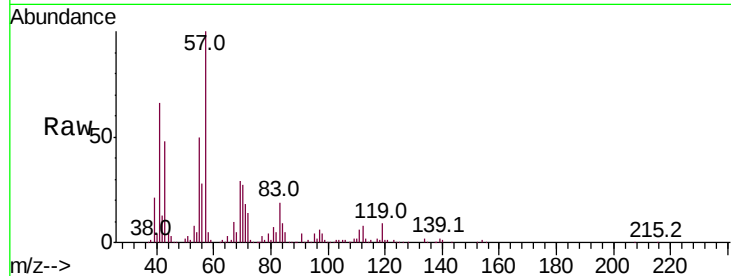




#69
p-Isopropyltoluene
Concen: 0.042 ppbv
RT: 17.79 min Scan# 4620
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

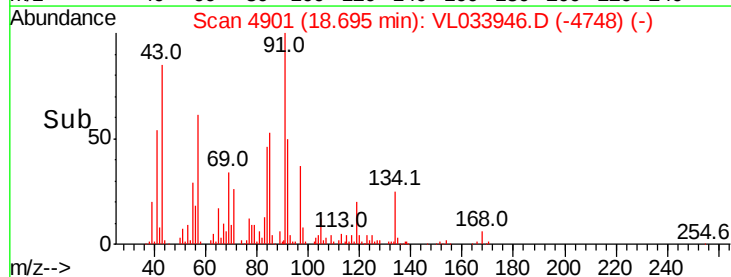
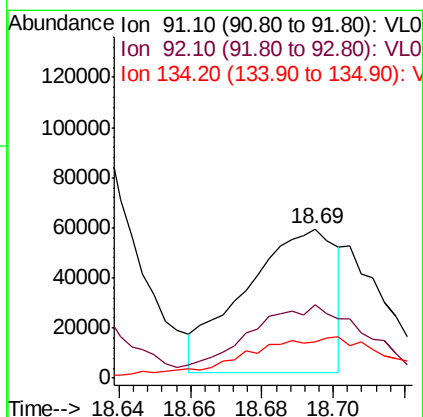
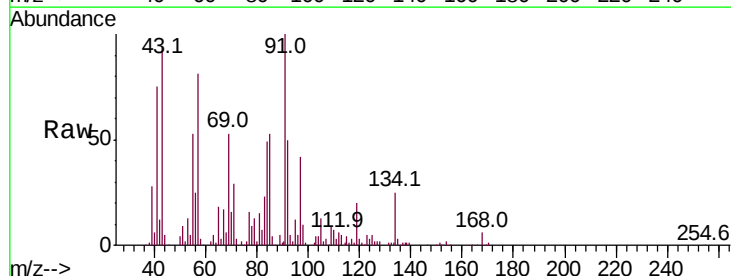
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

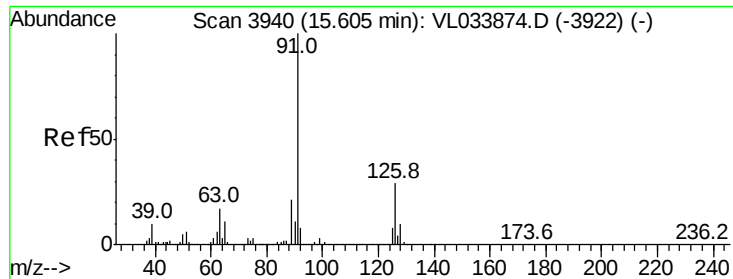
Tot Ion:119 Resp: 18577
Ion Ratio Lower Upper
119 100
134 0.0 20.3 30.5#
91 0.0 23.8 35.6#



#70
n-Butylbenzene
Concen: 0.208 ppbv
RT: 18.69 min Scan# 4901
Delta R.T. -0.01 min
Lab File: VL033946.D
Acq: 24 Jun 2019 21:17

Tgt Ion: 91 Resp: 101446
Ion Ratio Lower Upper
91 100
92 67.4 42.5 63.7#
134 0.0 17.8 26.6#

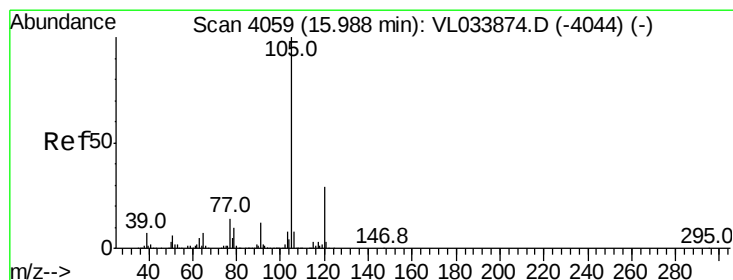
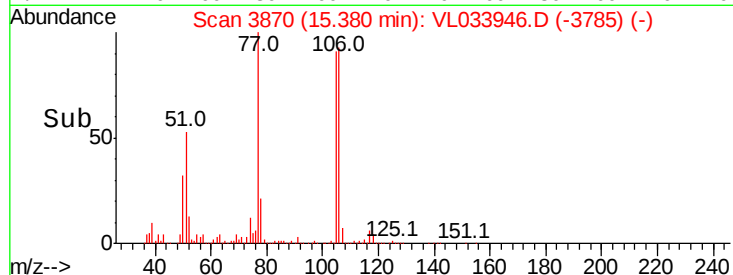
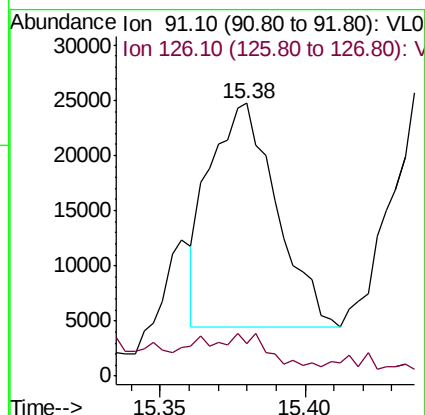
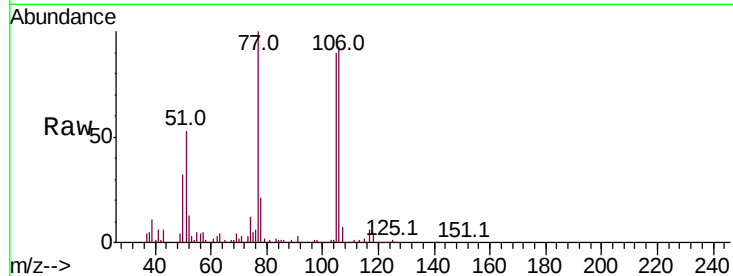




#71
 2-Chlorotoluene
 Concen: 0.107 ppbv
 RT: 15.38 min Scan# 3870
 Delta R.T. -0.23 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

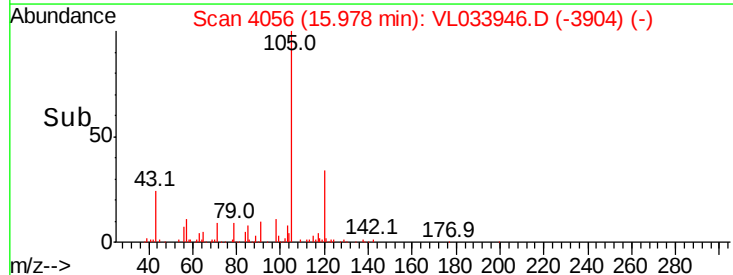
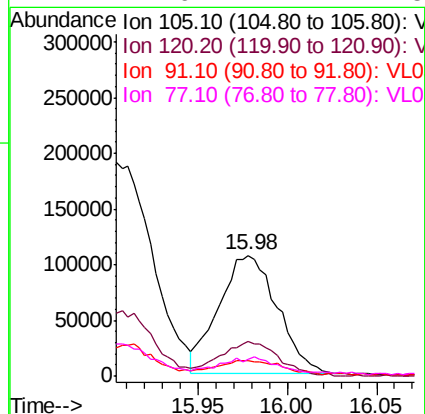
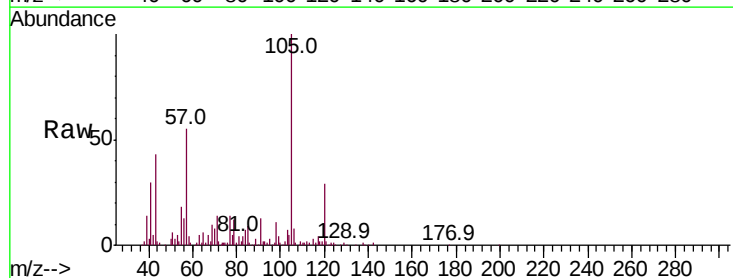
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1

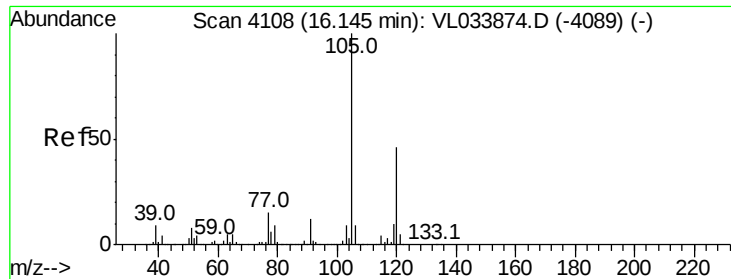
Tot Ion: 91 Resp: 32529
 Ion Ratio Lower Upper
 91 100
 126 24.1 12.0 48.2



#72
 4-Ethyltoluene
 Concen: 0.694 ppbv
 RT: 15.98 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: VL033946.D
 Acq: 24 Jun 2019 21:17

Tgt Ion: 105 Resp: 241962
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.5 35.3
 91 0.0 10.4 15.6#
 77 14.6 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 0.293 ppbv

RT: 16.14 min Scan# 4106

Delta R.T. -0.01 min

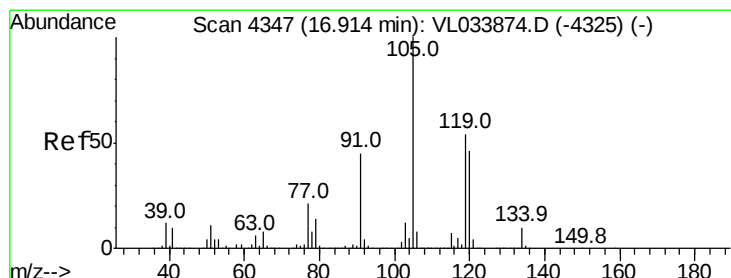
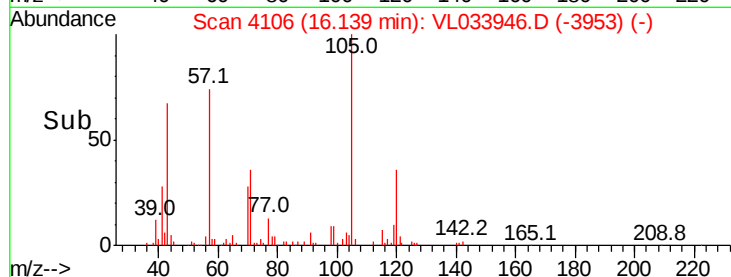
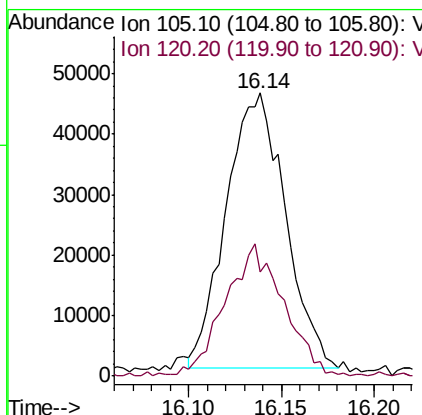
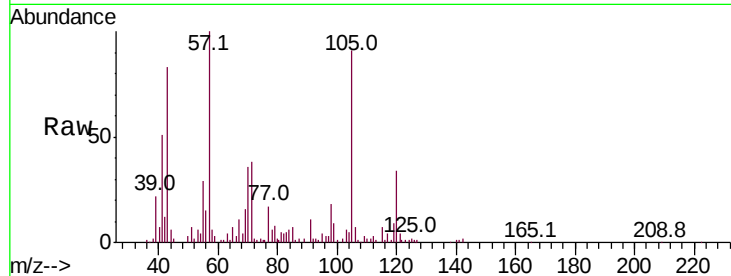
Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1

Tot Ion:105 Resp: 100635

Ion	Ratio	Lower	Upper
105	100		
120	37.1	37.1	55.7#



#74

1,2,4-Trimethylbenzene

Concen: 0.840 ppbv

RT: 16.90 min Scan# 4343

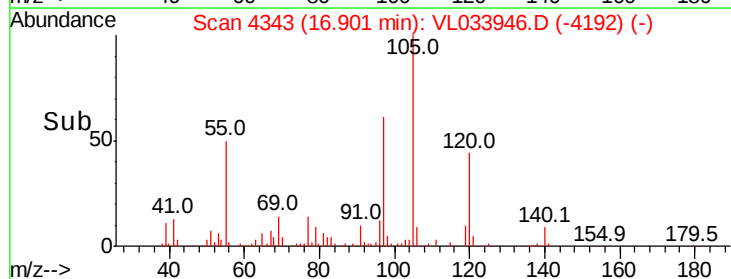
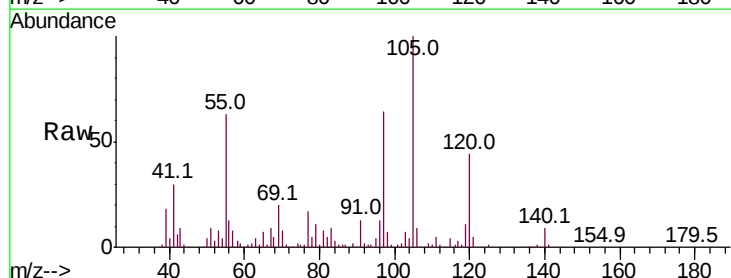
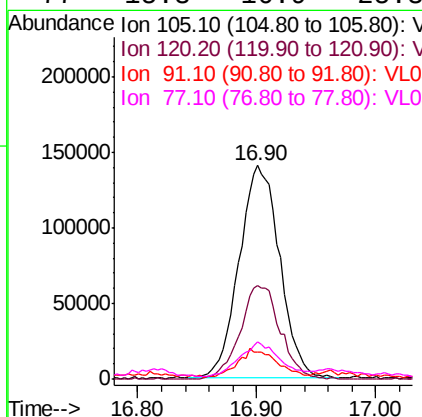
Delta R.T. -0.01 min

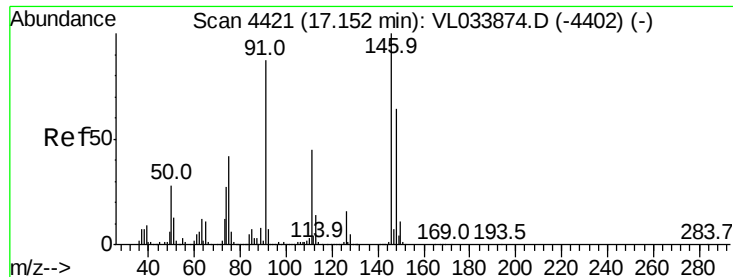
Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Tgt Ion:105 Resp: 332247

Ion	Ratio	Lower	Upper
105	100		
120	43.8	36.7	55.1
91	10.9	35.8	53.8#
77	15.3	16.9	25.3#





#75

1,3-Dichlorobenzene

Concen: 0.112 ppbv

RT: 17.28 min Scan# 4462

Delta R.T. 0.13 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

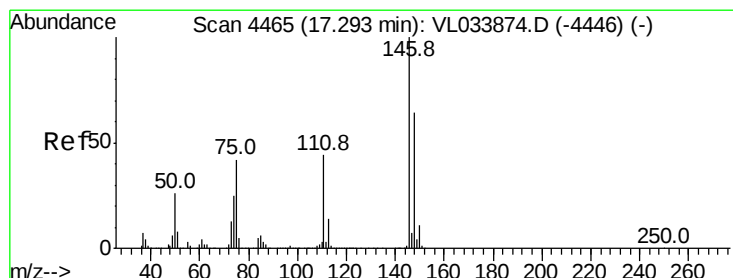
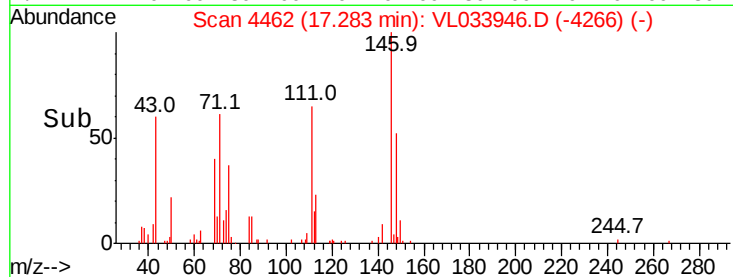
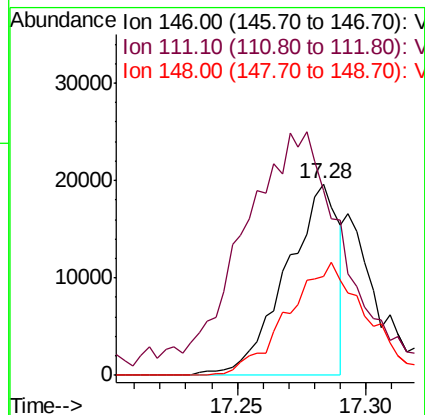
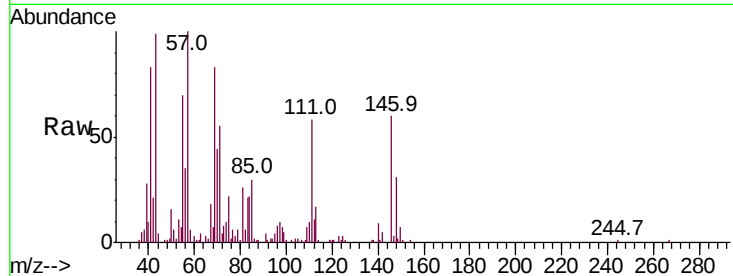
Tot Ion:146 Resp: 27675

Ion Ratio Lower Upper

146 100

111 252.6 22.8 68.3#

148 88.5 32.2 96.6



#76

1,4-Dichlorobenzene

Concen: 0.122 ppbv

RT: 17.28 min Scan# 4462

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

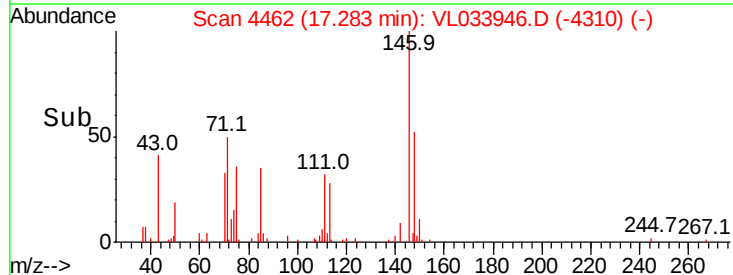
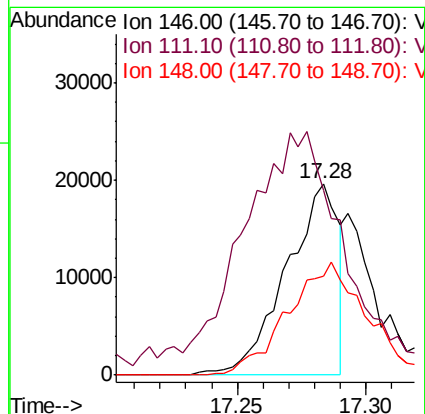
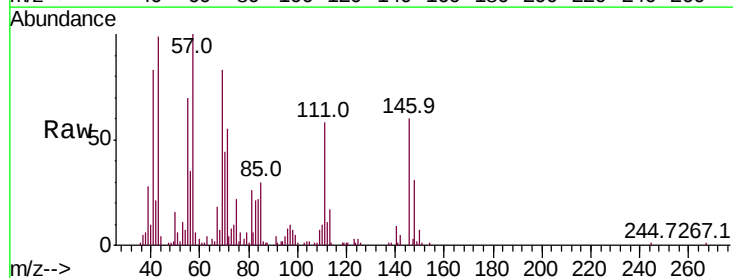
Tgt Ion:146 Resp: 27675

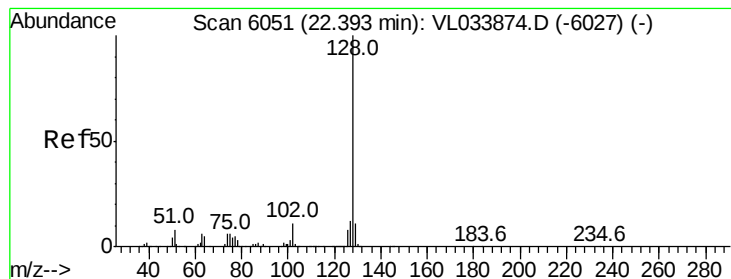
Ion Ratio Lower Upper

146 100

111 212.2 22.1 66.5#

148 88.7 32.4 97.0





#79

Naphthalene

Concen: 0.280 ppbv

RT: 22.38 min Scan# 6047

Delta R.T. -0.01 min

Lab File: VL033946.D

Acq: 24 Jun 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1

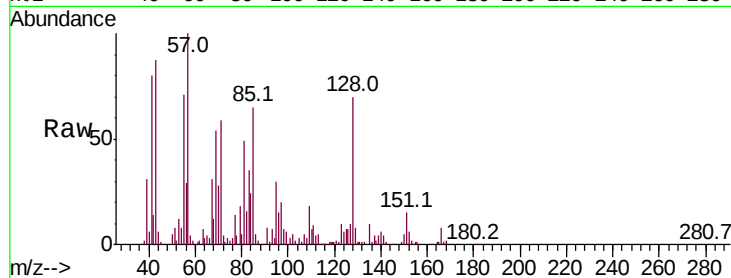
Tot Ion:128 Resp: 88449

Ion Ratio Lower Upper

128 100

127 12.6 9.7 14.5

129 12.5 8.6 12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

