

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033944.D
 Acq On : 24 Jun 2019 19:58
 Operator : SY/AP
 Sample : K3481-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jun 25 03:39:46 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	5.77	49	945301	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.29	114	2349872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2608135	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2183751	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	49502	0.323 ppbv	91
3) Chlorodifluoromethane	3.00	51	157509	1.415 ppbv	93
4) Chloromethane	3.17	50	4308	0.068 ppbv #	85
9) Propene	3.03	41	131328	3.154 ppbv	87
10) Heptane	8.24	43	3329136	31.631 ppbv	96
11) Trichlorofluoromethane	3.99	101	381743	1.929 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.54	101	6496	0.049 ppbv #	40
13) Ethanol	3.66	45	898463	66.317 ppbv	97
15) Acetone	4.04	43	203249	1.474 ppbv #	1
16) 1,3-Butadiene	3.38	39	37400	0.713 ppbv #	6
17) tert-Butyl alcohol	4.37	59	12779155	118.573 ppbv	97
19) Isopropyl Alcohol	4.04	45	687402	8.728 ppbv #	94
20) Methylene Chloride	4.42	84	77109	1.434 ppbv #	86
21) Allyl Chloride	4.37	41	4301753	54.928 ppbv #	58
23) Vinyl Acetate	5.17	43	234314	1.462 ppbv #	49
25) Ethyl Acetate	5.76	43	361517	1.722 ppbv #	79
26) Hexane	5.76	57	514441	5.381 ppbv #	40
27) Carbon Disulfide	4.61	76	355913	2.680 ppbv	97
29) Chloroform	5.86	83	14158	0.086 ppbv	85
34) 2-Butanone	5.32	43	7826804	59.041 ppbv	95
36) Benzene	7.00	78	4633993	25.816 ppbv	97
37) 1,2-Dichloroethane	6.41	62	23781	0.179 ppbv #	88
39) 1,2-Dichloropropane	8.17	63	118593	1.712 ppbv #	1
40) 1,4-Dioxane	7.95	88	59706	2.113 ppbv #	1
41) Tetrahydrofuran	6.14	42	2105735	31.295 ppbv #	41
42) Bromodichloromethane	8.18	83	533628	3.008 ppbv #	26
43) Methyl Methacrylate	8.18	69	8943913	133.223 ppbv #	83
44) 2,2,4-Trimethylpentane	7.98	57	155331	0.487 ppbv #	43
50) 4-Methyl-2-Pentanone	8.86	43	1490189	7.538 ppbv	100
51) 2-Hexanone	10.28	43	249968	1.619 ppbv #	100
52) Tetrachloroethene	11.35	164	100864	1.597 ppbv	89
53) Toluene	9.94	91	18313528	92.194 ppbv	87
58) Ethyl Benzene	12.85	91	8782313	29.867 ppbv	95
59) m/p-Xylene	13.11	91	24116331	90.188 ppbv	86
60) o-Xylene	13.84	91	15088731	54.652 ppbv	90
61) Styrene	13.84	104	505419	2.829 ppbv #	1
62) Isopropylbenzene	14.81	105	3622592	9.735 ppbv	98
64) n-propylbenzene	15.70	120	670977	7.041 ppbv	95
65) tert-Butylbenzene	16.89	119	15398	0.045 ppbv #	19
67) sec-Butylbenzene	17.43	105	40252	0.083 ppbv #	91
69) p-Isopropyltoluene	17.79	119	13478	0.034 ppbv #	58

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 Response via : Initial Calibration

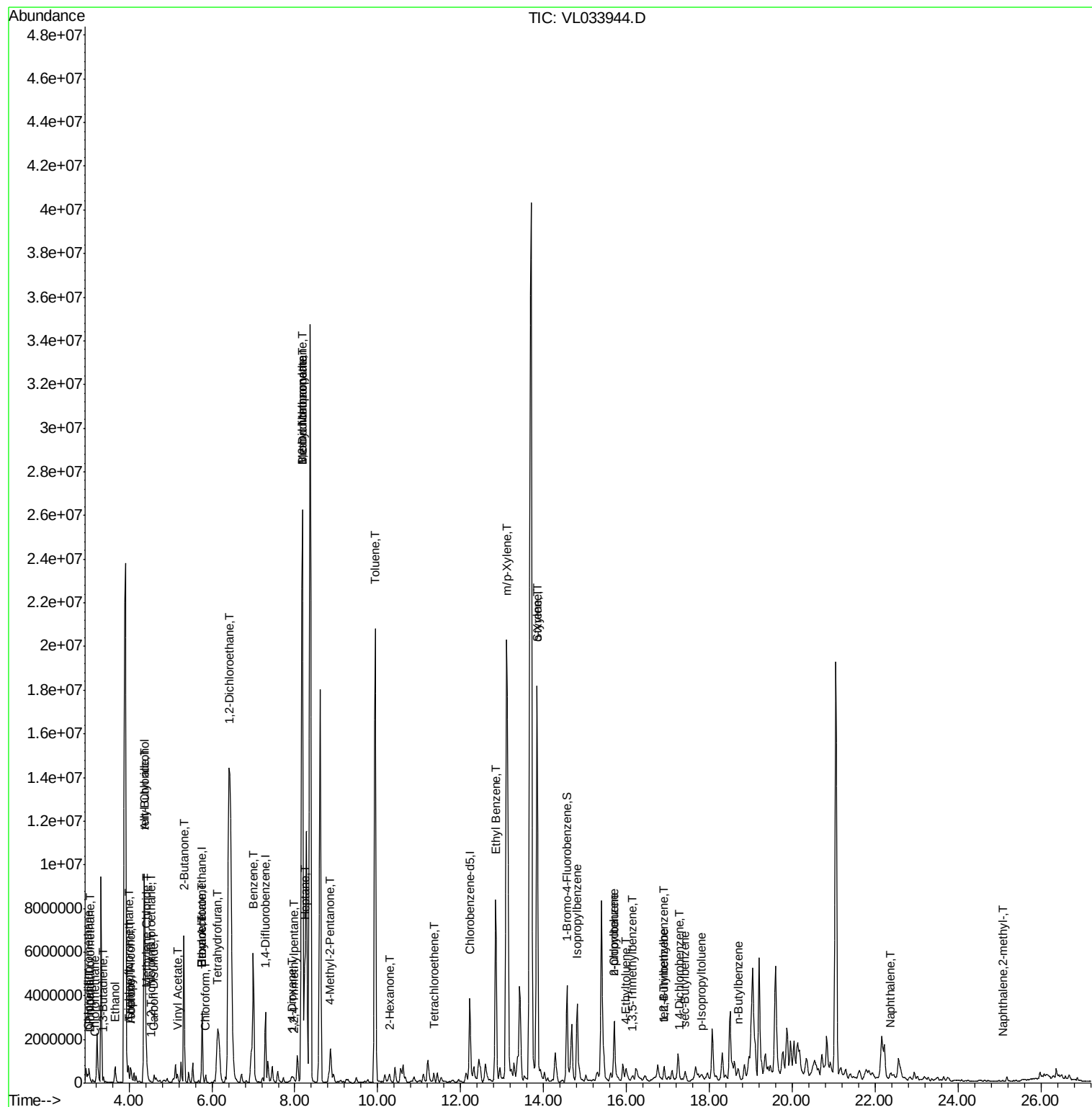
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.69	91	139611	0.317	ppbv #	91
71) 2-Chlorotoluene	15.70	91	3115292	11.364	ppbv #	45
72) 4-Ethyltoluene	15.98	105	310857	0.989	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.14	105	94353	0.305	ppbv	92
74) 1,2,4-Trimethylbenzene	16.90	105	328548	0.921	ppbv #	77
76) 1,4-Dichlorobenzene	17.29	146	11603	0.057	ppbv #	29
79) Naphthalene	22.38	128	29887	0.105	ppbv #	79
80) Naphthalene,2-methyl-	25.10	142	7441	0.065	ppbv #	70

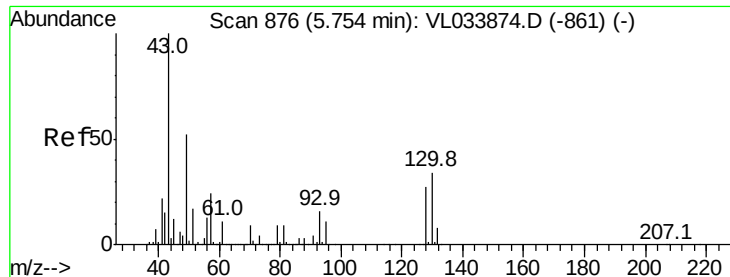
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033944.D

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Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

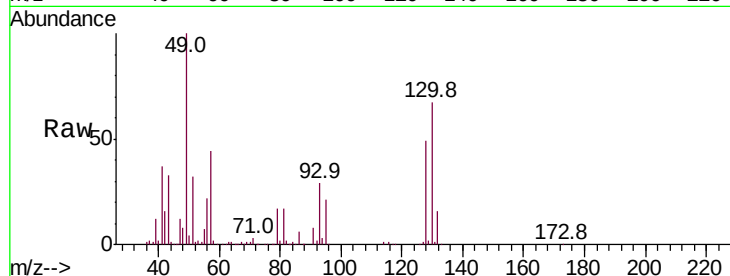
Tot Ion: 49 Resp: 945301

Ion Ratio Lower Upper

49 100

128 50.0 25.5 76.5

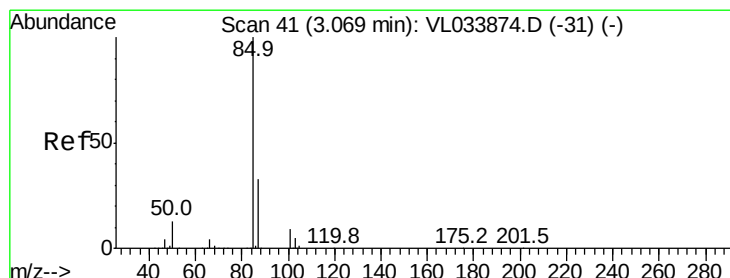
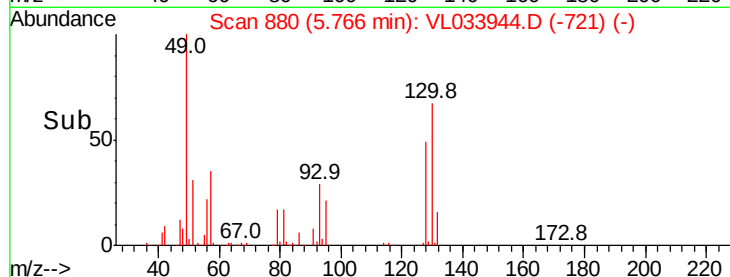
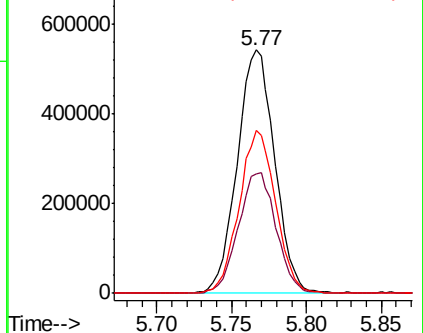
130 65.2 32.5 97.4



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: 0.323 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL033944.D

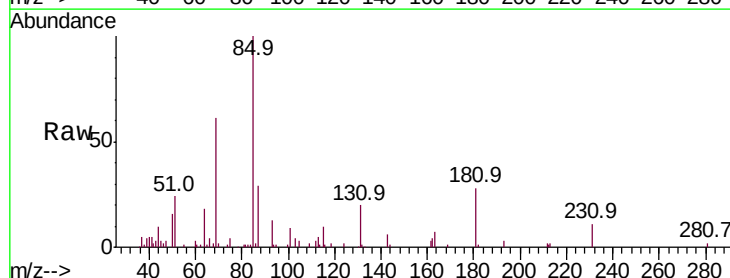
Acq: 24 Jun 2019 19:58

Tgt Ion: 85 Resp: 49502

Ion Ratio Lower Upper

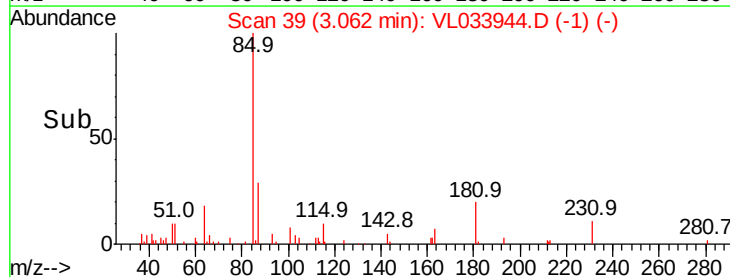
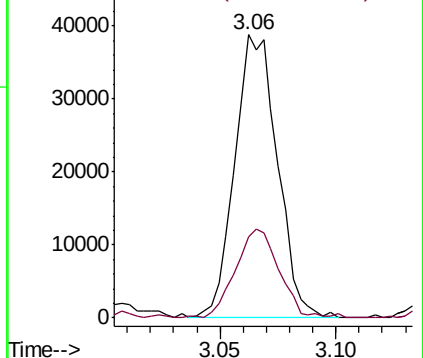
85 100

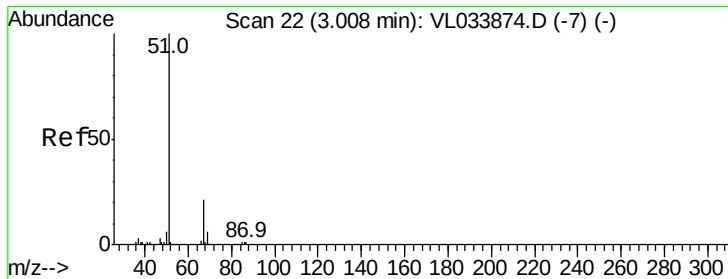
87 28.0 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.415 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

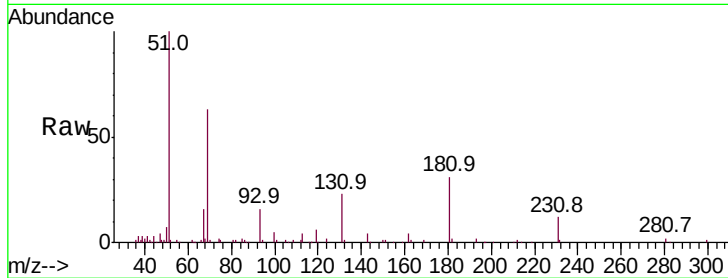
TZC-SSDS-AREA-A-1

Tot Ion: 51 Resp: 157509

Ion Ratio Lower Upper

51 100

67 17.3 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

100000

50000

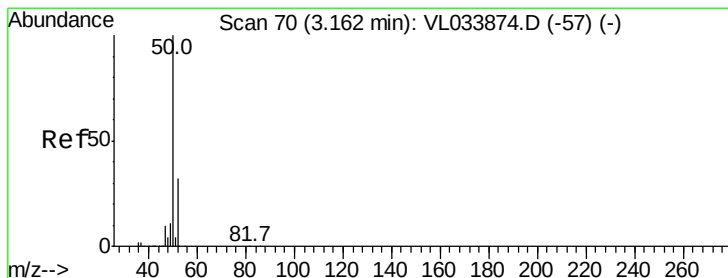
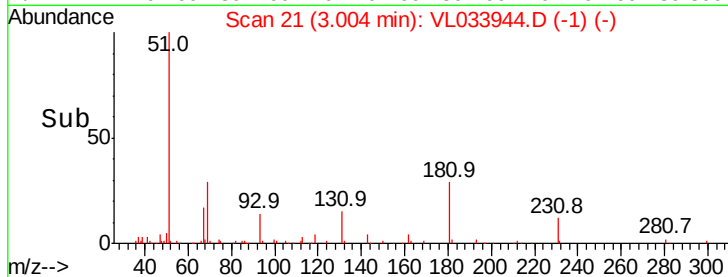
0

Time-->

2.95

3.00

3.05



#4

Chloromethane

Concen: 0.068 ppbv

RT: 3.17 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL033944.D

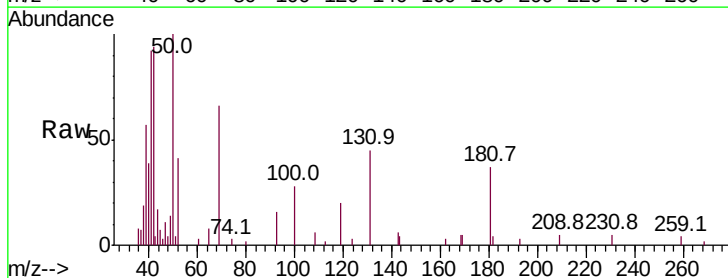
Acq: 24 Jun 2019 19:58

Tgt Ion: 50 Resp: 4308

Ion Ratio Lower Upper

50 100

52 40.3 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

10000

8000

6000

4000

2000

0

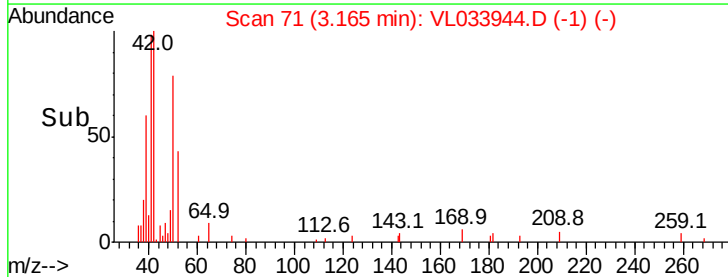
Time-->

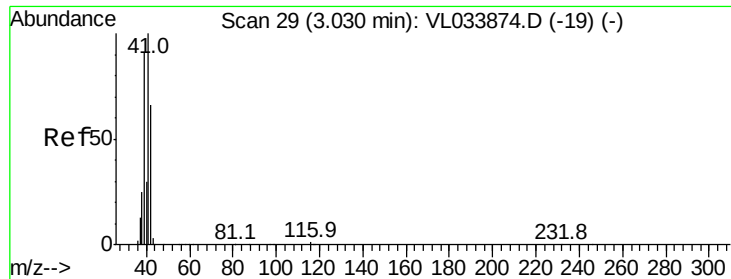
3.16

3.17

3.18

3.19





#9

Propene

Concen: 3.154 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

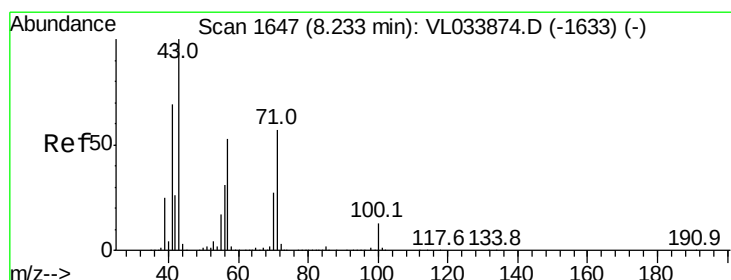
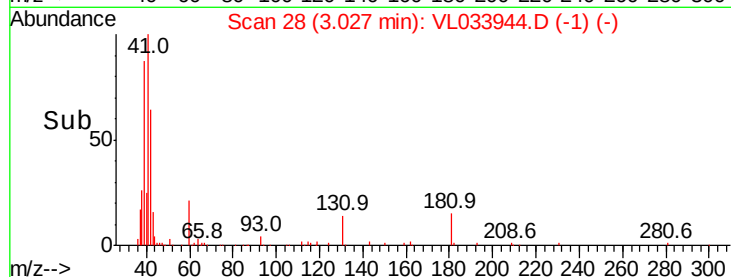
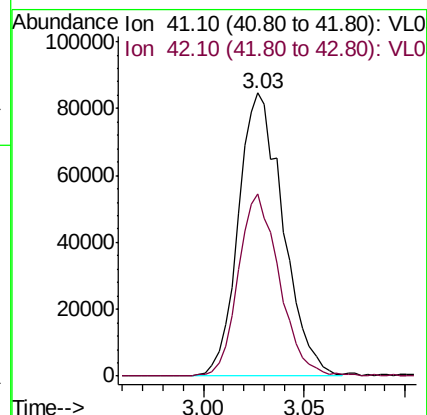
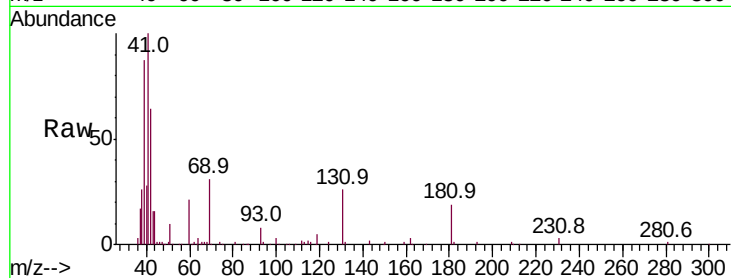
TZC-SSDS-AREA-A-1

Tot Ion: 41 Resp: 131328

Ion Ratio Lower Upper

41 100

42 59.6 56.3 84.5



#10

Heptane

Concen: 31.631 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. 0.01 min

Lab File: VL033944.D

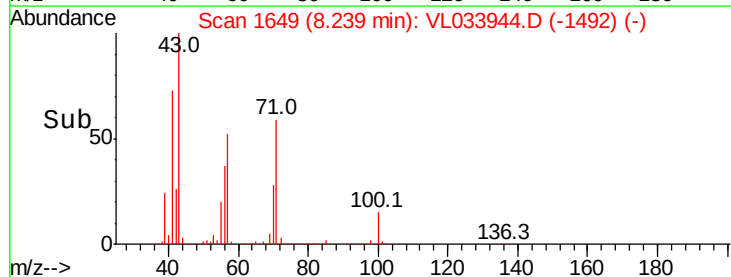
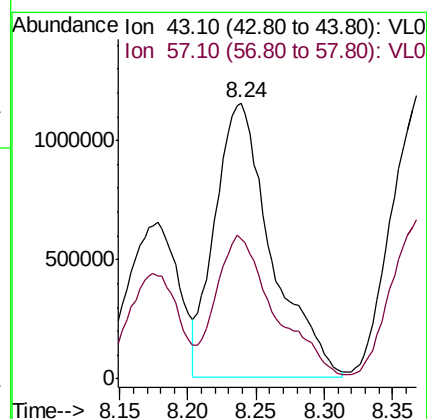
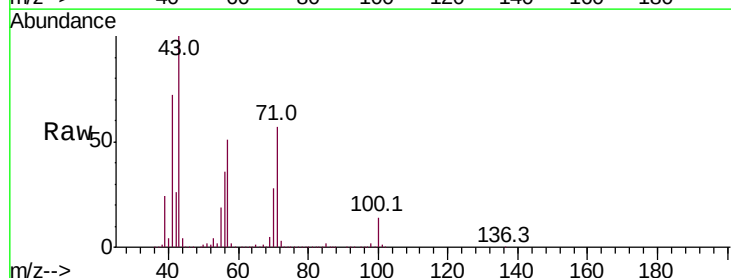
Acq: 24 Jun 2019 19:58

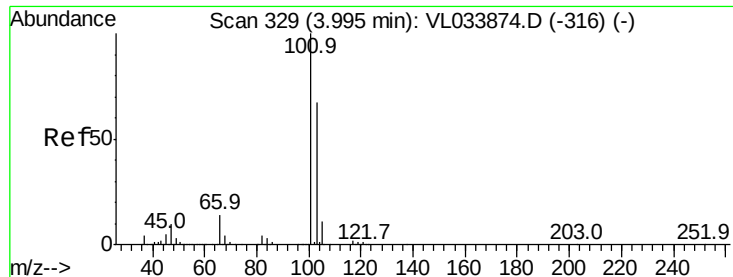
Tgt Ion: 43 Resp: 3329136

Ion Ratio Lower Upper

43 100

57 55.2 41.7 62.5

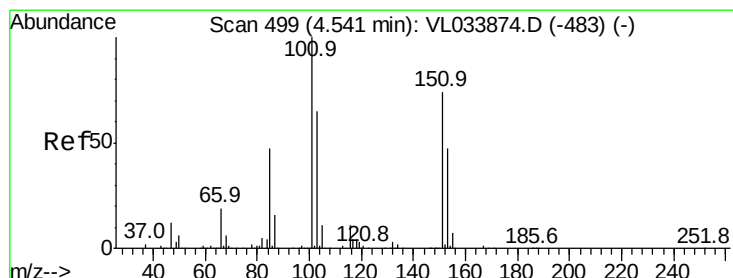
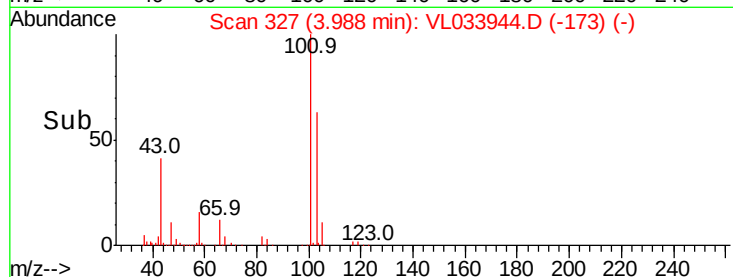
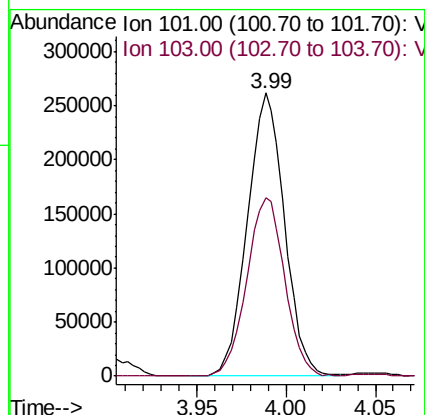
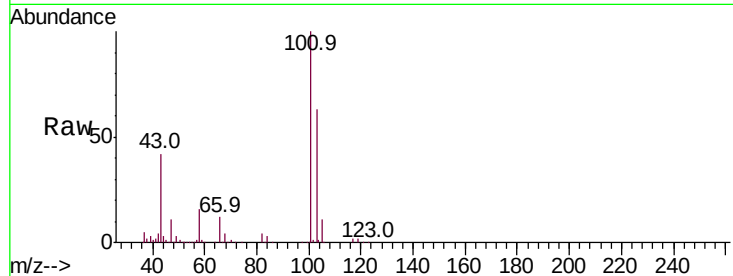




#11
 Trichlorofluoromethane
 Concen: 1.929 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

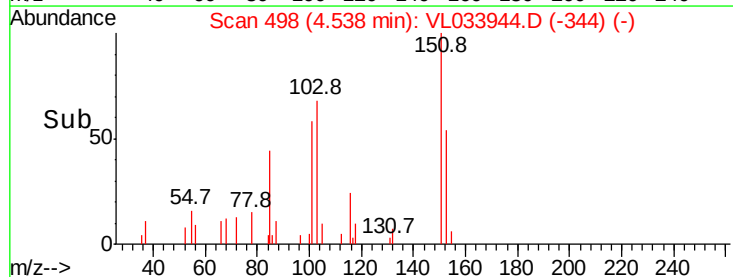
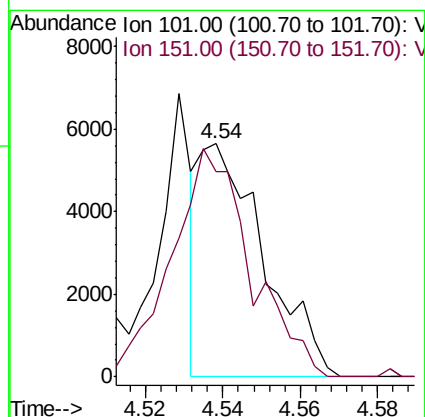
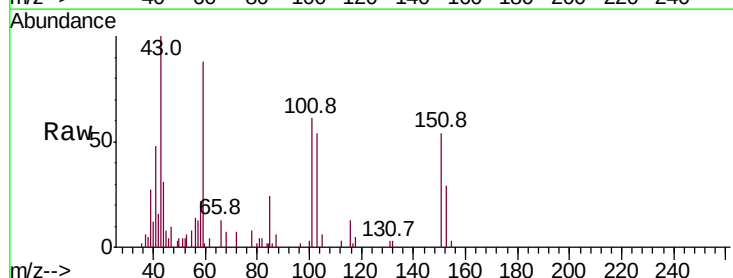
Instrument :
 MSVOA_L
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 TZC-SSDS-AREA-A-1

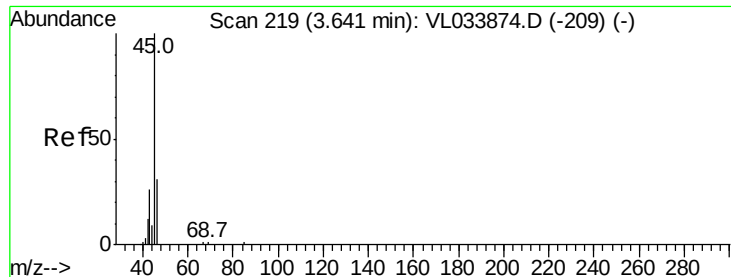
Tot Ion:101 Resp: 381743
 Ion Ratio Lower Upper
 101 100
 103 62.8 53.6 80.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.049 ppbv
 RT: 4.54 min Scan# 498
 Delta R.T. -0.00 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

Tgt Ion:101 Resp: 6496
 Ion Ratio Lower Upper
 101 100
 151 123.6 58.6 87.8#

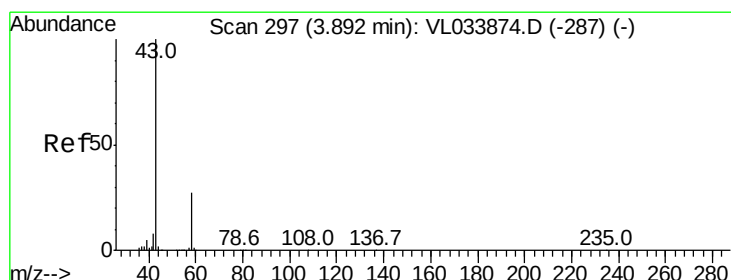
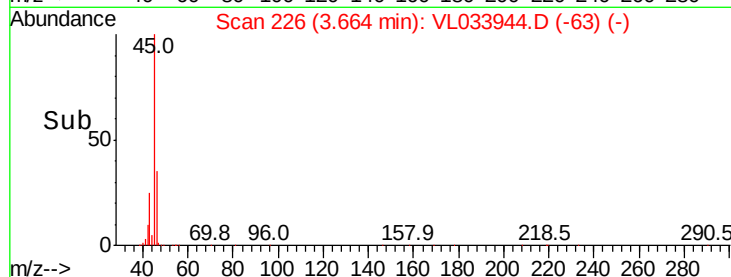
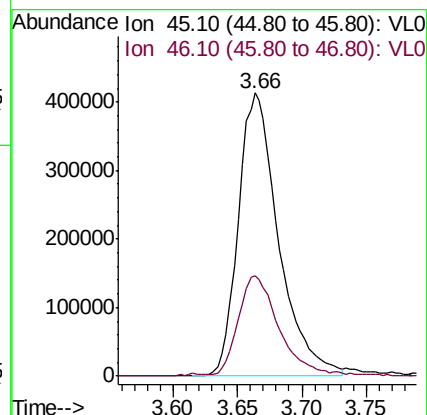
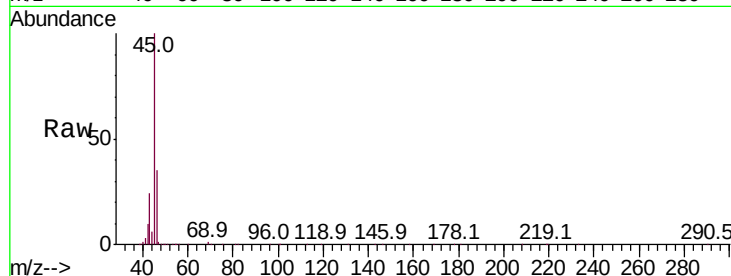




#13
Ethanol
Concen: 66.317 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.02 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

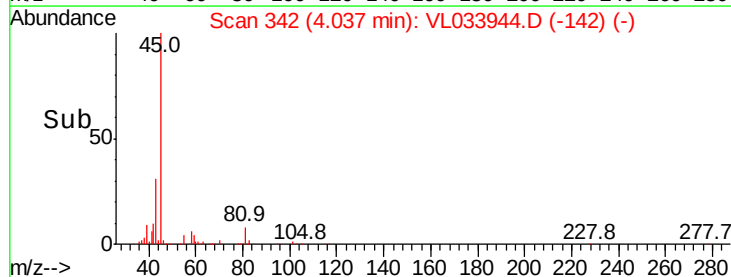
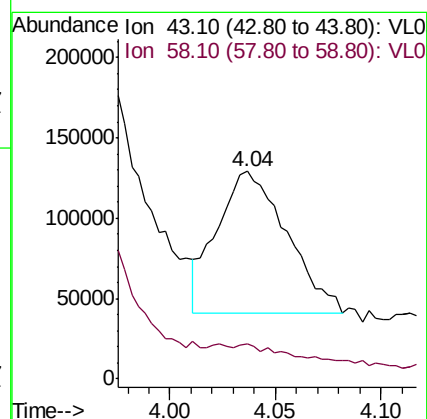
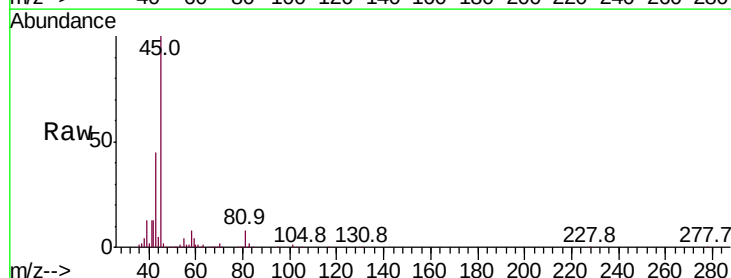
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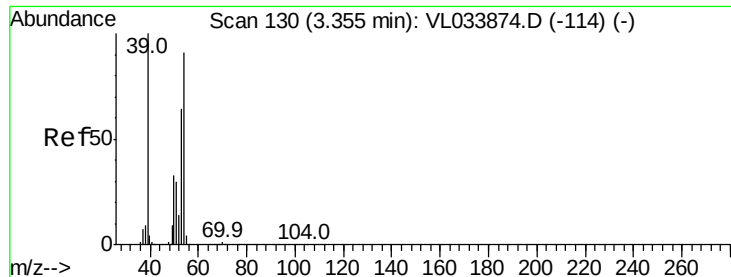
Tot Ion: 45 Resp: 898463
Ion Ratio Lower Upper
45 100
46 36.2 15.3 61.1



#15
Acetone
Concen: 1.474 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.14 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

Tgt Ion: 43 Resp: 203249
Ion Ratio Lower Upper
43 100
58 9408.1 21.3 31.9#





#16

1,3-Butadiene

Concen: 0.713 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.02 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

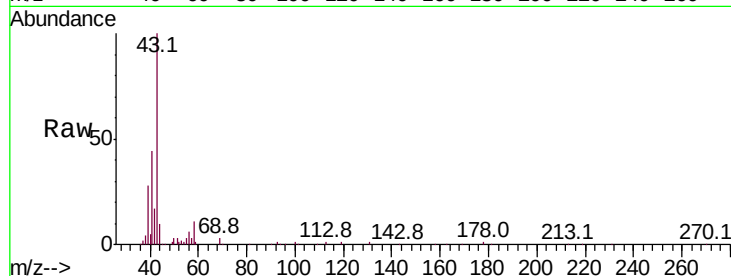
TZC-SSDS-AREA-A-1

Tot Ion: 39 Resp: 37400

Ion Ratio Lower Upper

39 100

54 0.0 68.6 103.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

600000

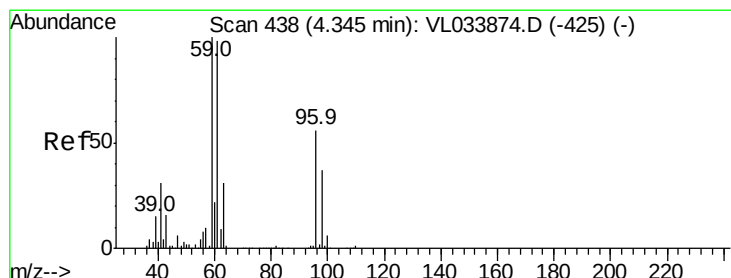
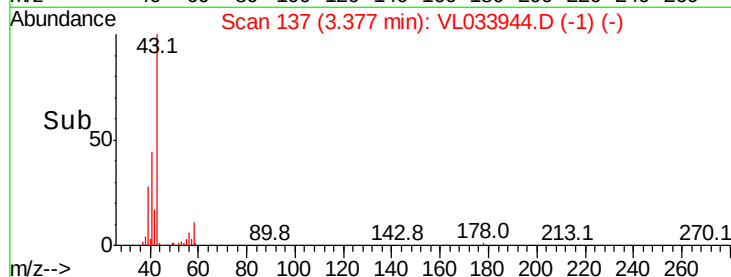
400000

200000

0

3.36 3.38 3.40 3.42

Time-->



#17

tert-Butyl alcohol

Concen: 118.573 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.02 min

Lab File: VL033944.D

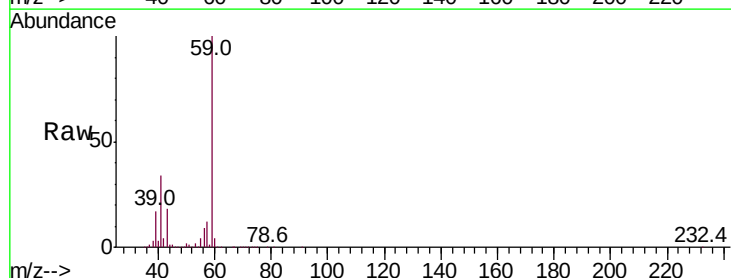
Acq: 24 Jun 2019 19:58

Tgt Ion: 59 Resp:12779155

Ion Ratio Lower Upper

59 100

57 11.7 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5000000

4000000

3000000

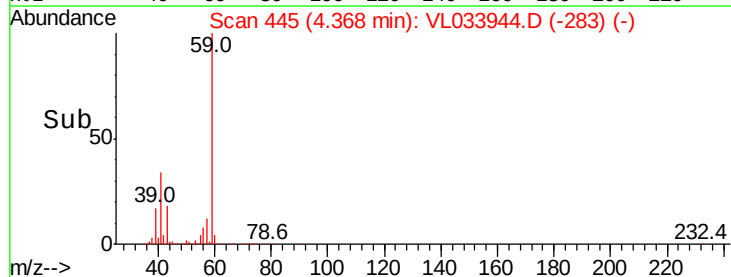
2000000

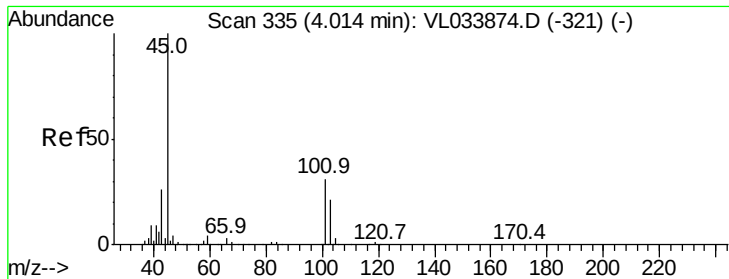
1000000

0

4.30 4.40 4.50 4.60

Time-->





#19

Isopropyl Alcohol

Concen: 8.728 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.03 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

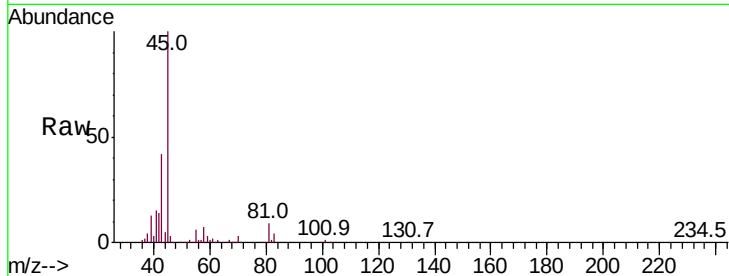
TZC-SSDS-AREA-A-1

Tot Ion: 45 Resp: 687402

Ion Ratio Lower Upper

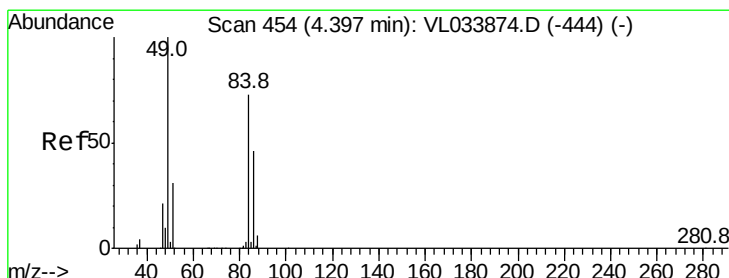
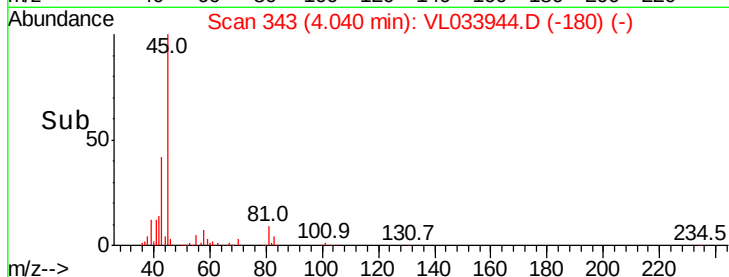
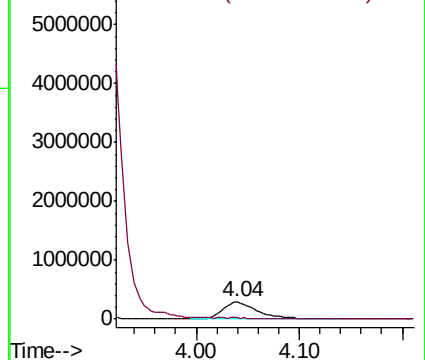
45 100

58 0.0 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.434 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.02 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Tgt Ion: 84 Resp: 77109

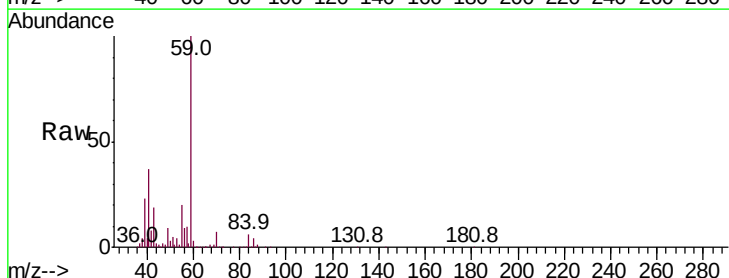
Ion Ratio Lower Upper

84 100

49 146.1 110.0 165.0

51 73.6 34.6 51.8#

86 66.5 50.6 75.8

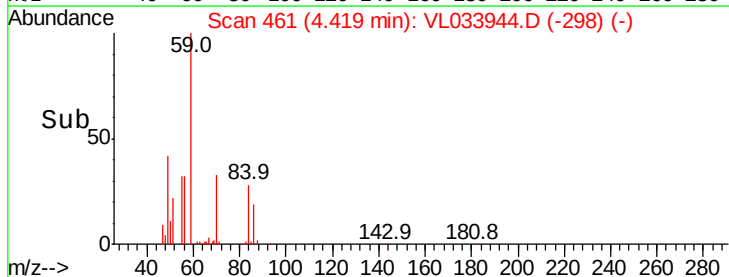
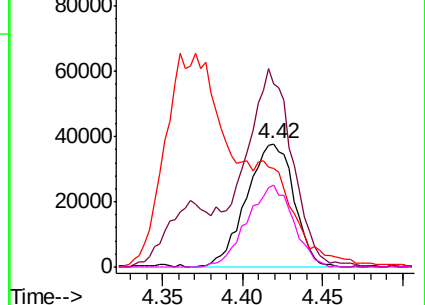


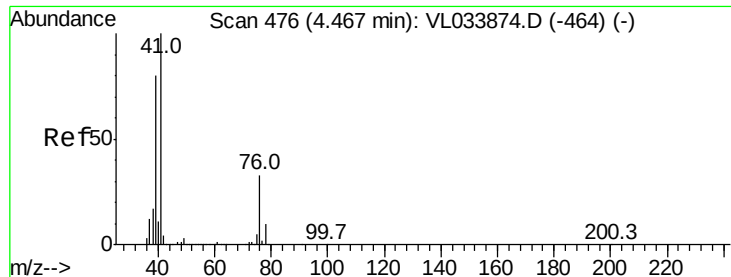
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 54.928 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.10 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

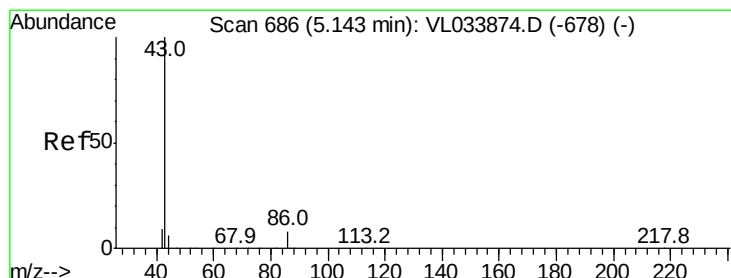
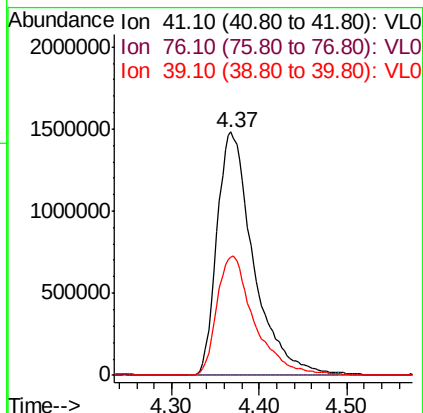
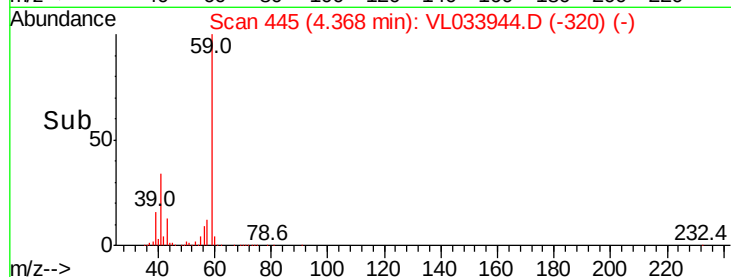
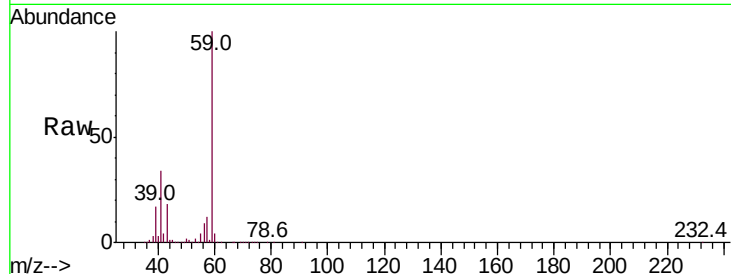
Tot Ion: 41 Resp: 4301753

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

39 50.5 65.2 97.8#



#23

Vinyl Acetate

Concen: 1.462 ppbv

RT: 5.17 min Scan# 694

Delta R.T. 0.03 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Tgt Ion: 43 Resp: 234314

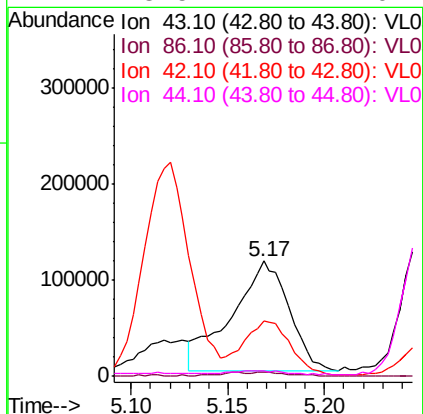
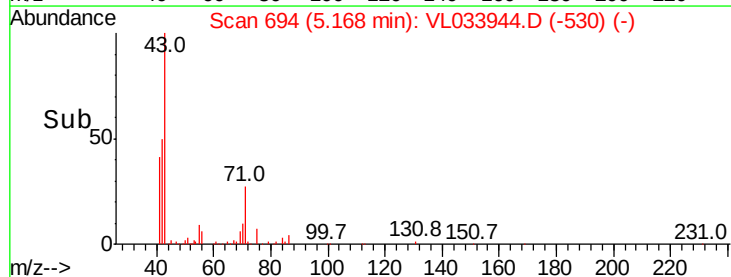
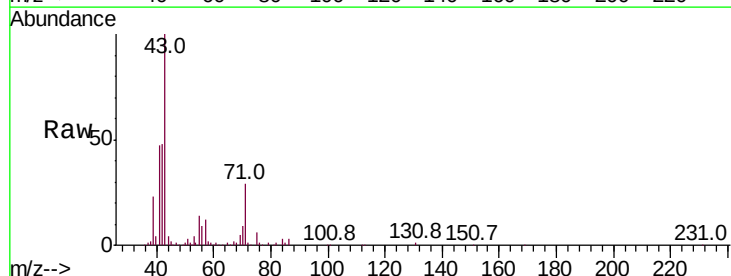
Ion Ratio Lower Upper

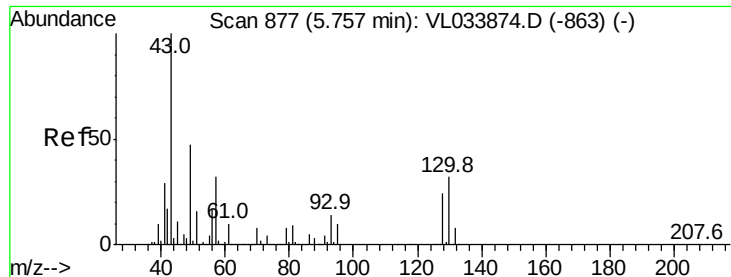
43 100

86 3.3 5.8 8.8#

42 48.7 7.8 11.8#

44 3.5 4.2 6.4#

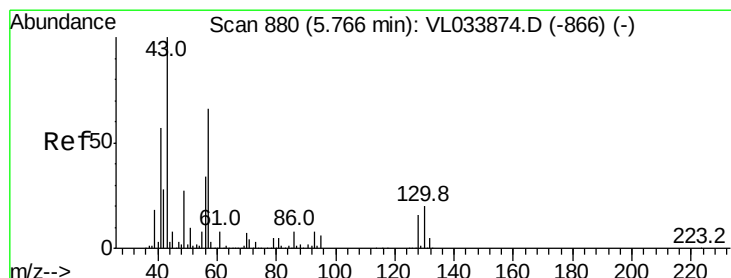
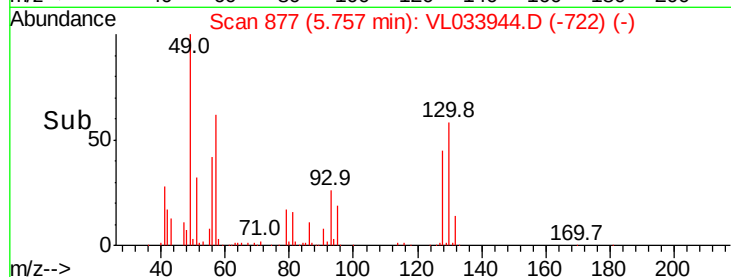
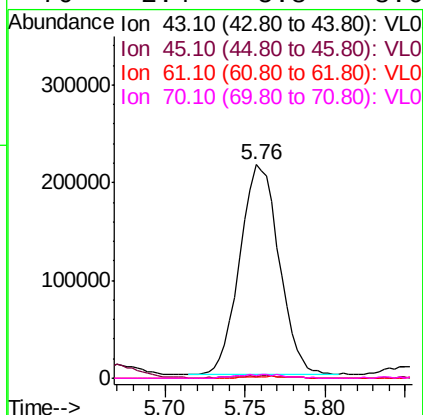
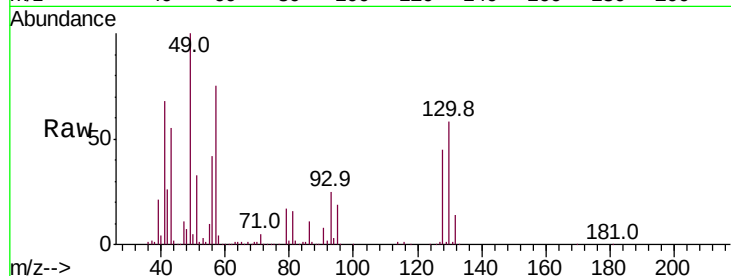




#25
Ethyl Acetate
Concen: 1.722 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

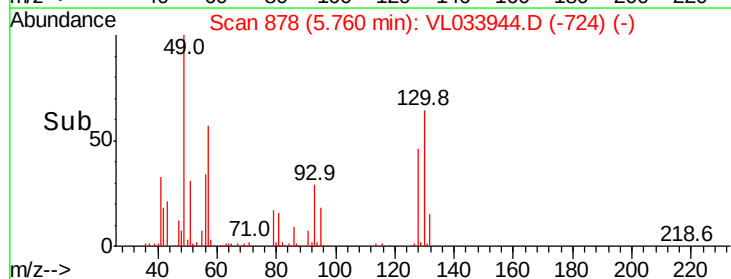
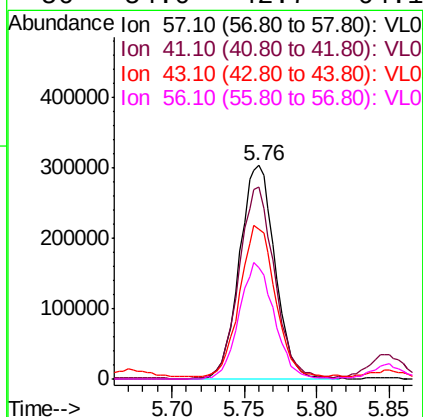
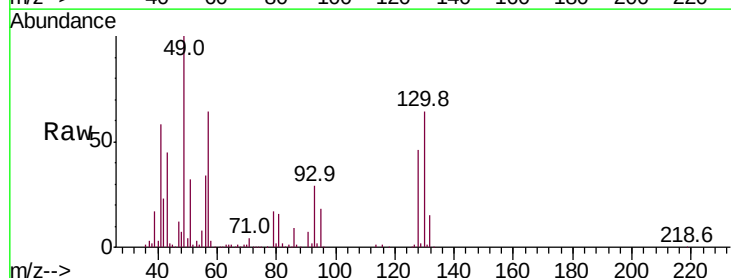
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-1

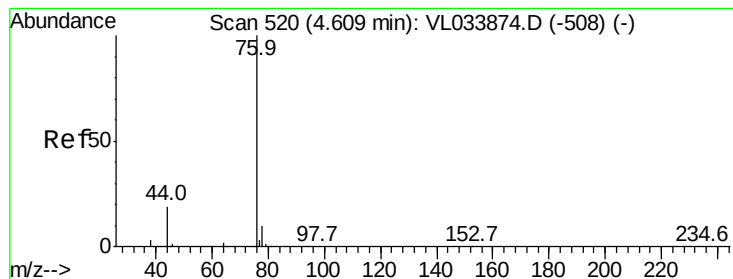
Tot Ion:	43	Resp:	361517
Ion	Ratio	Lower	Upper
43	100		
45	1.3	7.9	11.9#
61	1.0	7.8	11.6#
70	2.4	5.8	8.6#



#26
Hexane
Concen: 5.381 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

Tgt Ion:	57	Resp:	514441
Ion	Ratio	Lower	Upper
57	100		
41	90.6	71.4	107.2
43	70.4	183.7	275.5#
56	54.0	42.7	64.1





#27

Carbon Disulfide

Concen: 2.680 ppbv

RT: 4.61 min Scan# 519

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

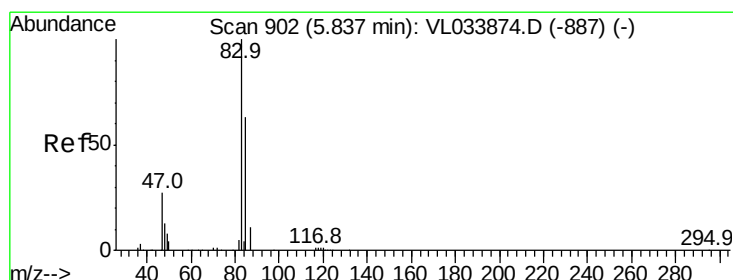
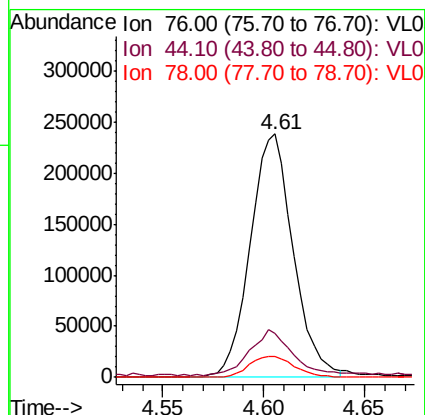
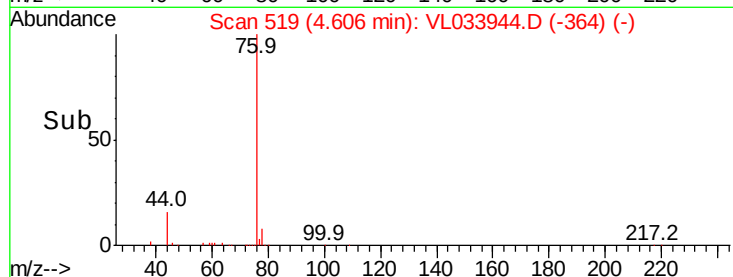
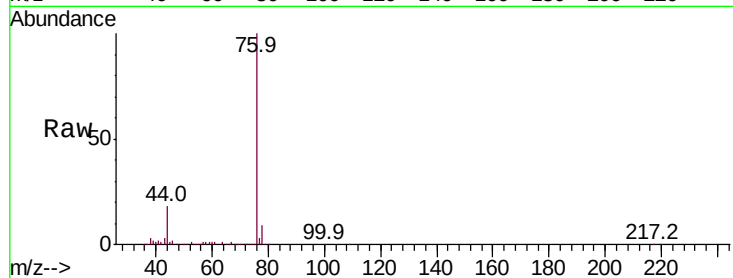
Tot Ion: 76 Resp: 355913

Ion Ratio Lower Upper

76 100

44 19.8 14.4 21.6

78 9.3 7.5 11.3



#29

Chloroform

Concen: 0.086 ppbv

RT: 5.86 min Scan# 908

Delta R.T. 0.02 min

Lab File: VL033944.D

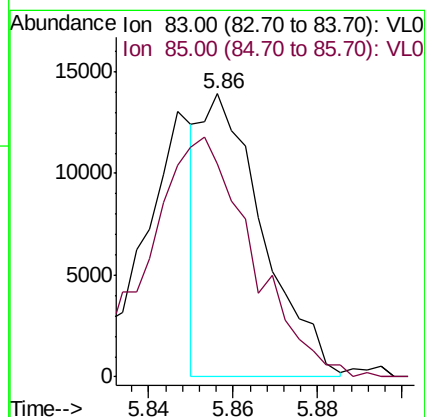
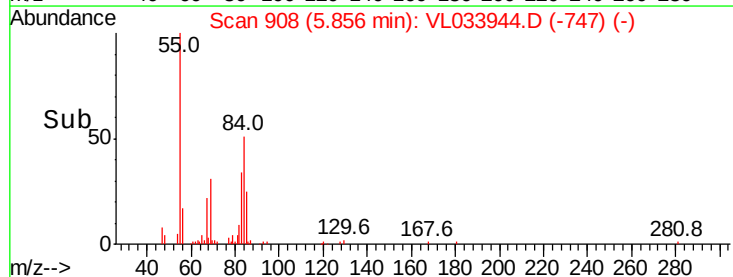
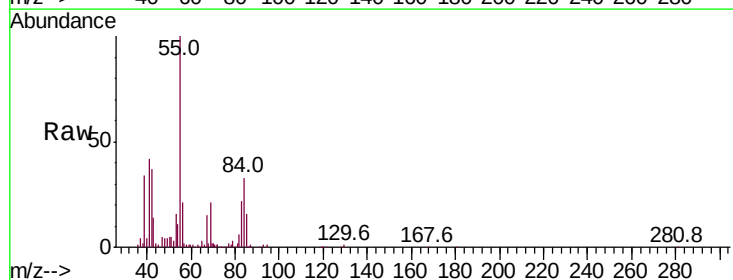
Acq: 24 Jun 2019 19:58

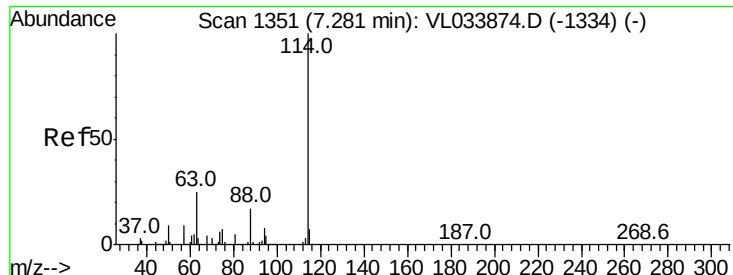
Tgt Ion: 83 Resp: 14158

Ion Ratio Lower Upper

83 100

85 74.5 50.5 75.7

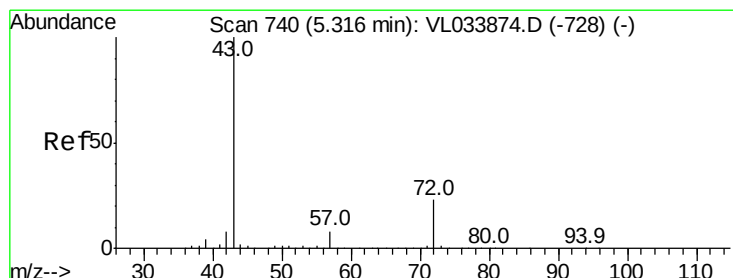
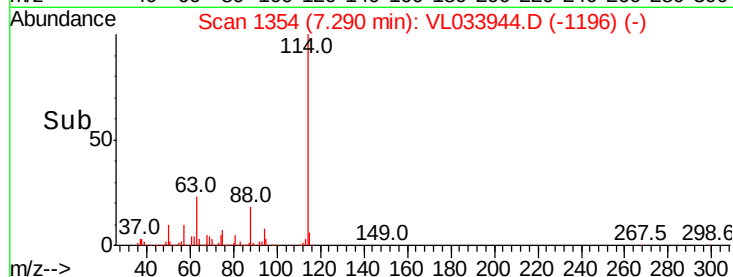
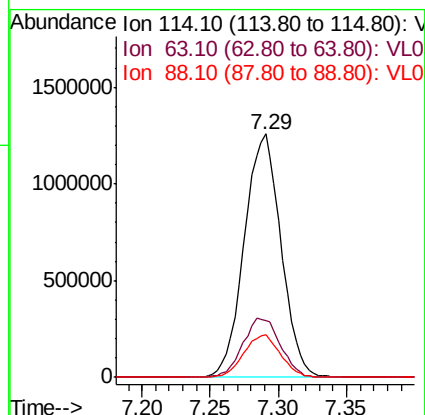
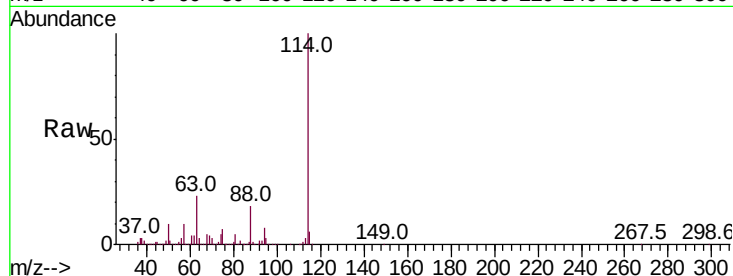




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

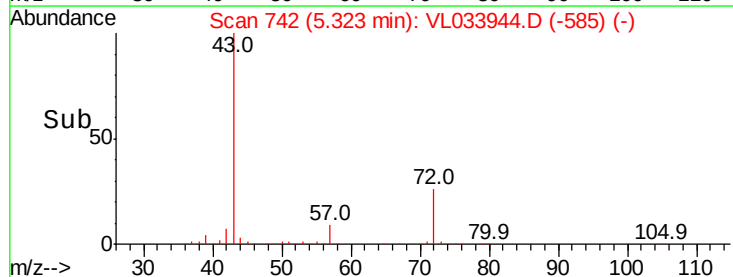
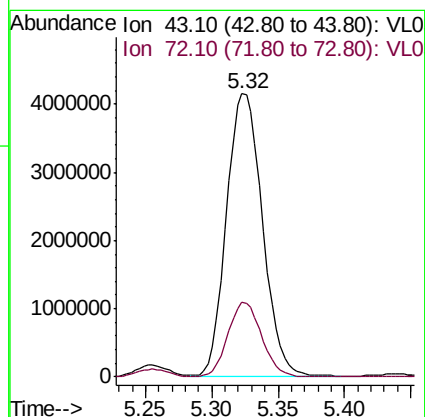
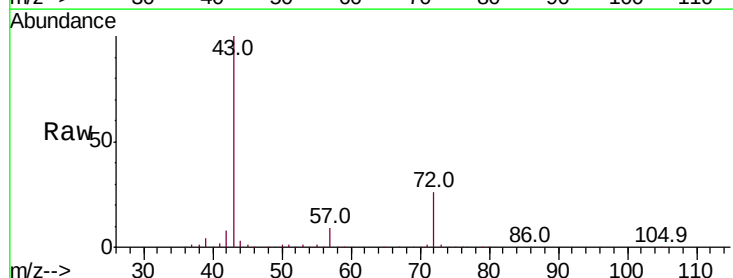
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-A-1

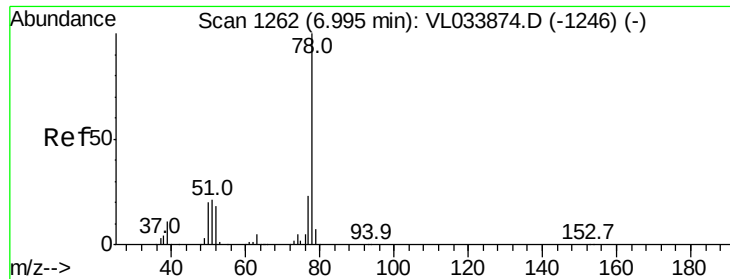
Tot Ion:114 Resp: 2349872
 Ion Ratio Lower Upper
 114 100
 63 25.3 21.1 31.7
 88 17.6 14.2 21.4



#34
 2-Butanone
 Concen: 59.041 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. 0.01 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

Tgt Ion: 43 Resp: 7826804
 Ion Ratio Lower Upper
 43 100
 72 25.0 17.9 26.9





#36

Benzene

Concen: 25.816 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

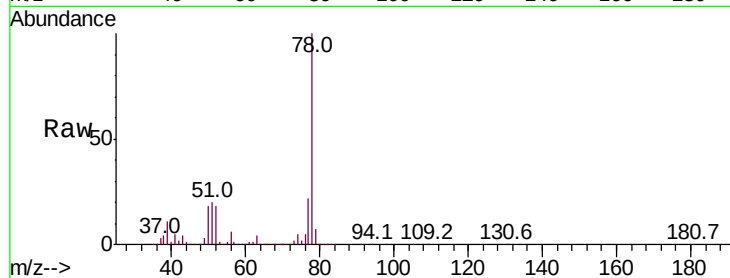
Tot Ion: 78 Resp: 4633993

Ion Ratio Lower Upper

78 100

77 21.8 18.2 27.2

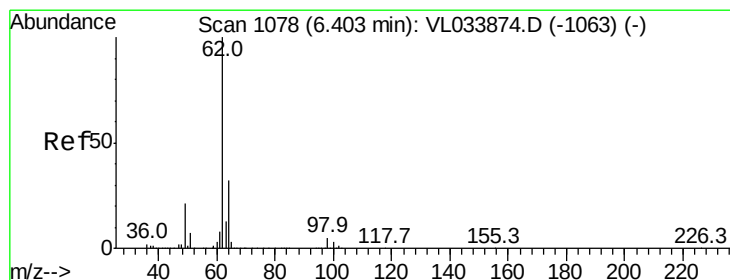
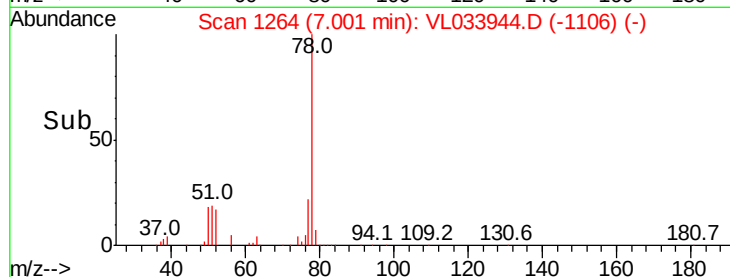
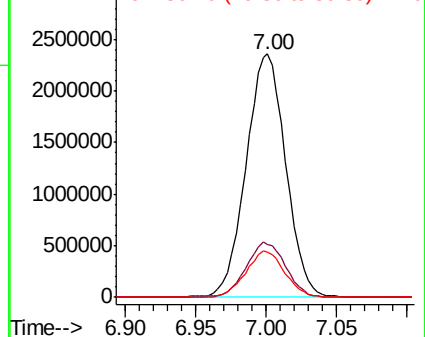
50 18.2 15.9 23.9



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.179 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VL033944.D

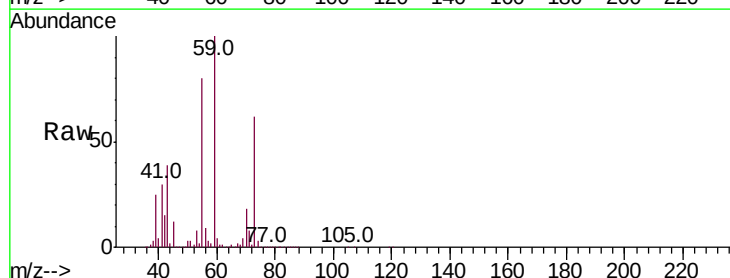
Acq: 24 Jun 2019 19:58

Tgt Ion: 62 Resp: 23781

Ion Ratio Lower Upper

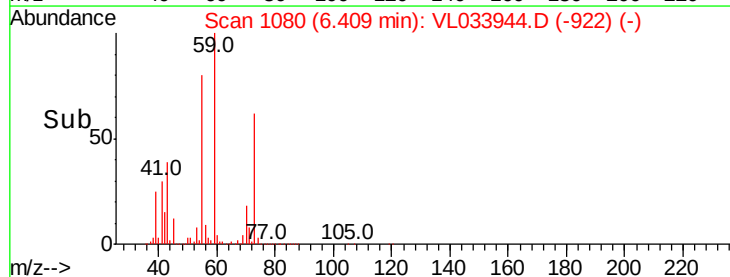
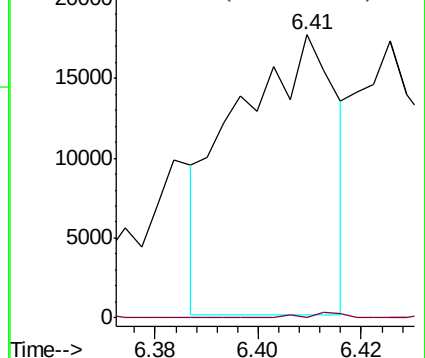
62 100

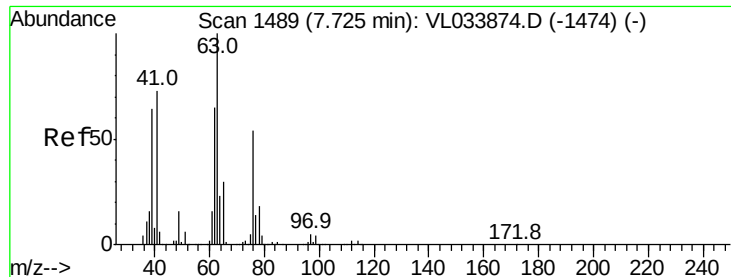
98 1.0 4.0 6.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 1.712 ppbv

RT: 8.17 min Scan# 1629

Delta R.T. 0.45 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

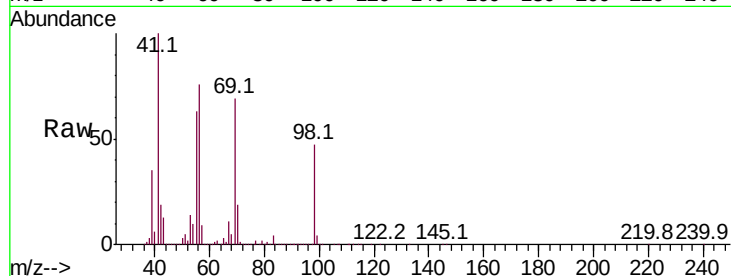
Tot Ion: 63 Resp: 118593

Ion Ratio Lower Upper

63 100

41 6563.6 58.7 88.1#

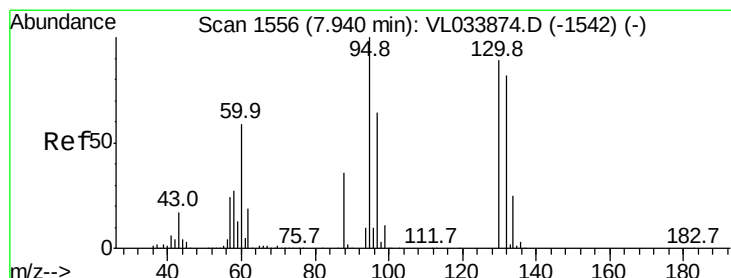
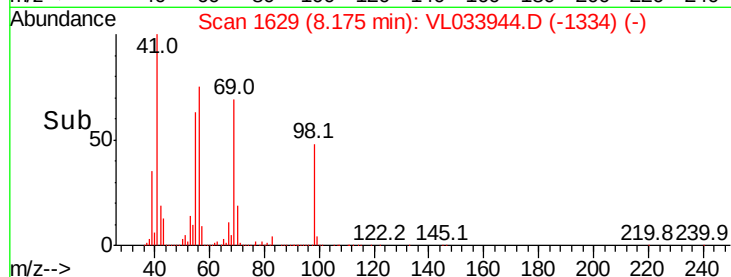
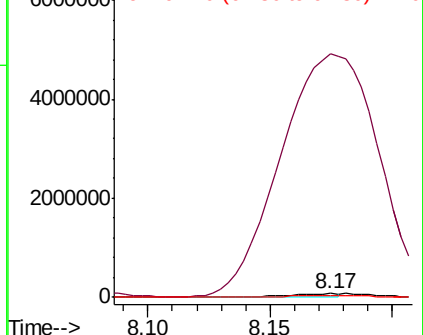
62 47.0 51.9 77.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 2.113 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Tgt Ion: 88 Resp: 59706

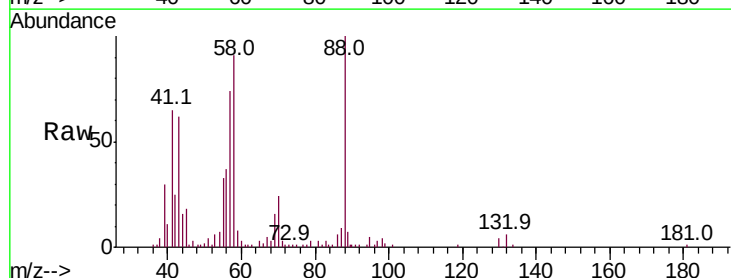
Ion Ratio Lower Upper

88 100

58 132.8 100.0 150.0

43 0.0 184.7 277.1#

57 0.0 826.8 1240.2#

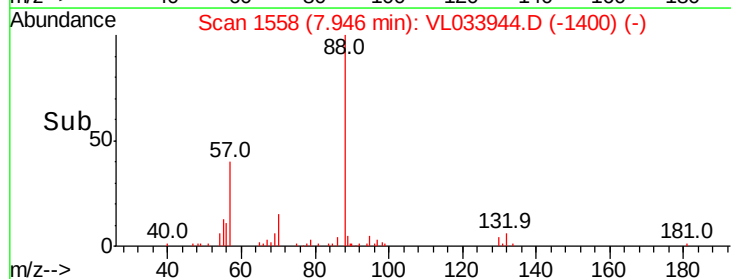
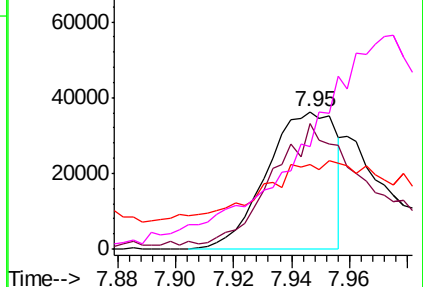


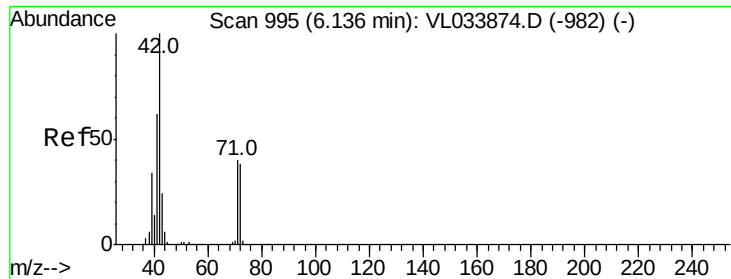
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 31.295 ppbv

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

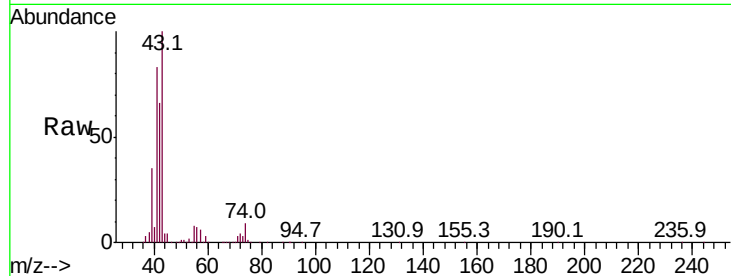
Tot Ion: 42 Resp: 2105735

Ion Ratio Lower Upper

42 100

72 5.6 32.2 48.4#

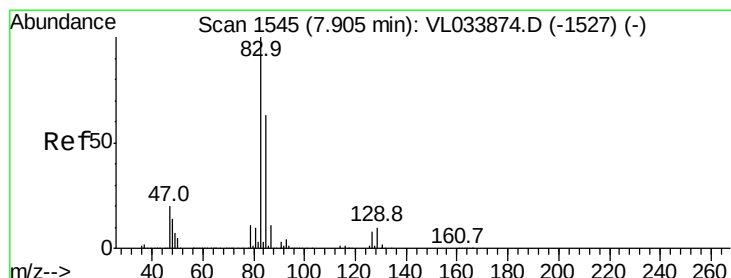
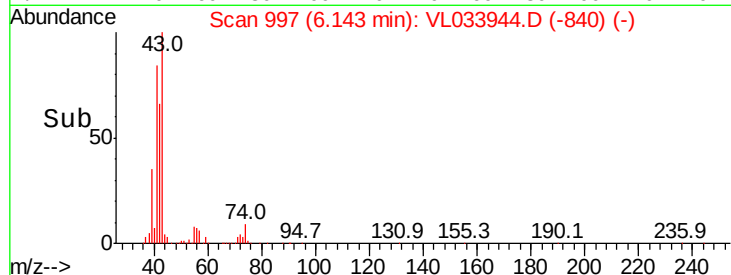
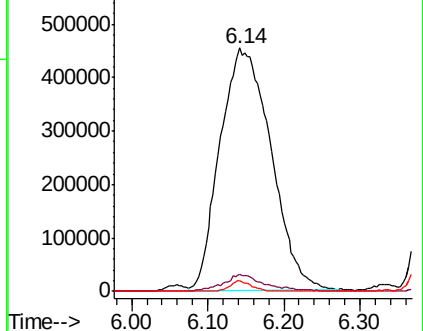
71 2.0 31.7 47.5#



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



#42

Bromodichloromethane

Concen: 3.008 ppbv

RT: 8.18 min Scan# 1630

Delta R.T. 0.27 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

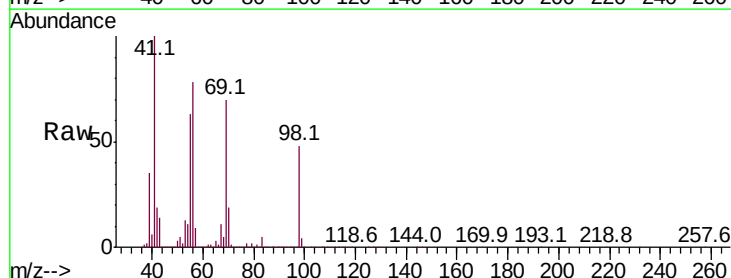
Tgt Ion: 83 Resp: 533628

Ion Ratio Lower Upper

83 100

85 0.4 50.2 75.2#

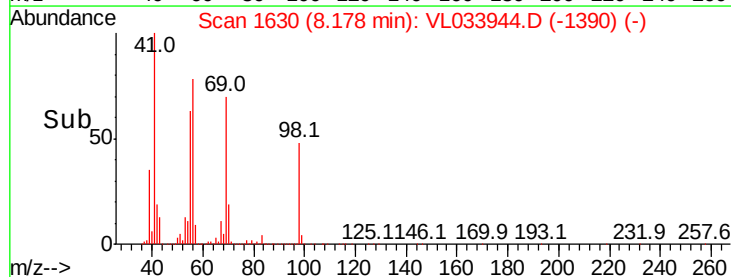
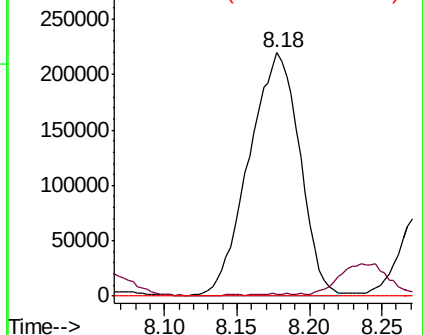
127 0.1 6.5 9.7#

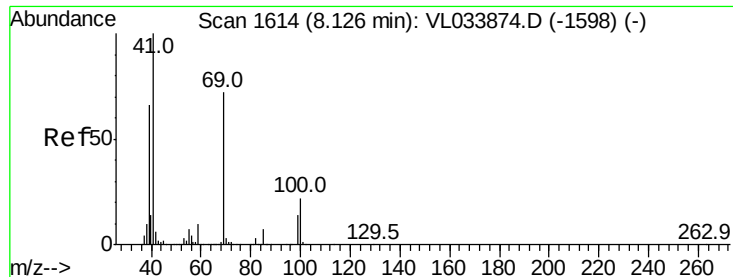


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 133.223 ppbv

RT: 8.18 min Scan# 1630

Delta R.T. 0.05 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

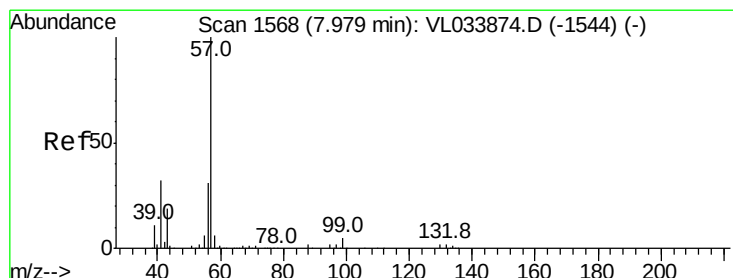
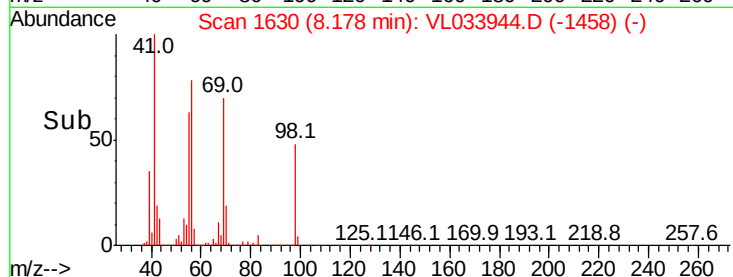
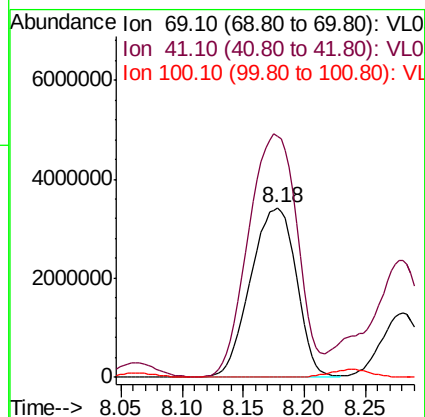
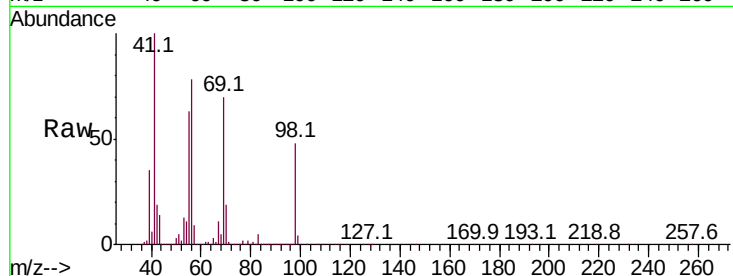
Tot Ion: 69 Resp: 8943913

Ion Ratio Lower Upper

69 100

41 153.4 114.3 171.5

100 0.0 24.8 37.2#



#44

2,2,4-Trimethylpentane

Concen: 0.487 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

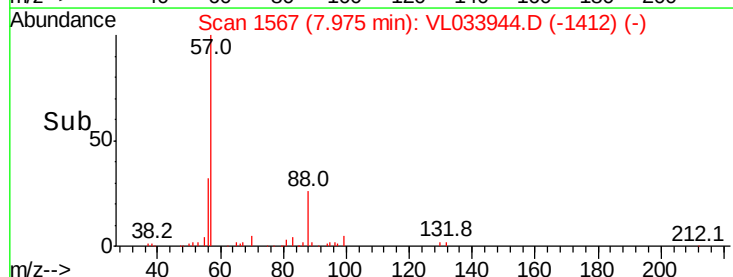
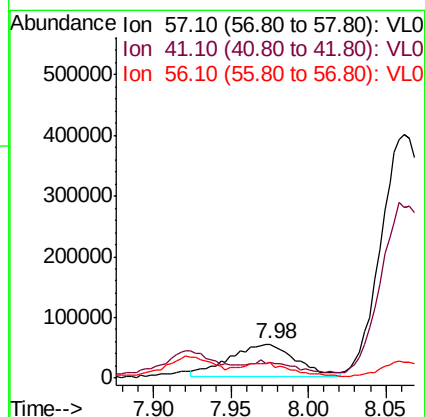
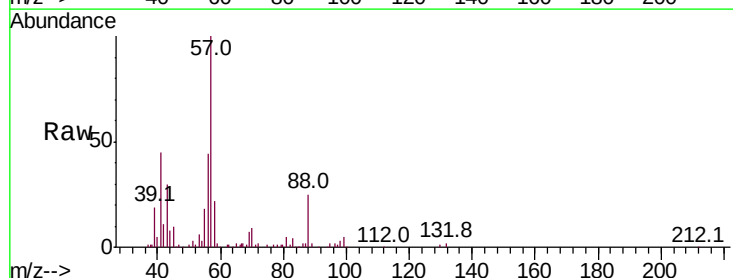
Tgt Ion: 57 Resp: 155331

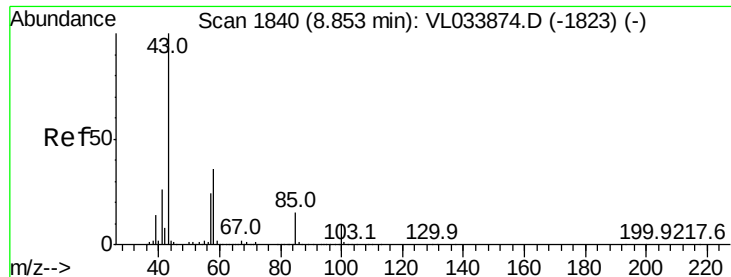
Ion Ratio Lower Upper

57 100

41 0.0 26.1 39.1#

56 0.0 24.6 36.8#





#50

4-Methyl-2-Pentanone

Concen: 7.538 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

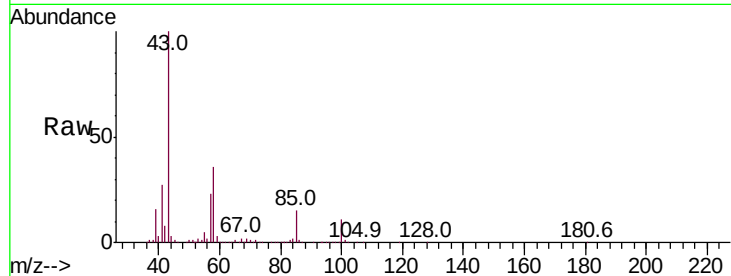
TZC-SSDS-AREA-A-1

Tot Ion: 43 Resp: 1490189

Ion Ratio Lower Upper

43 100

58 35.6 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8.86

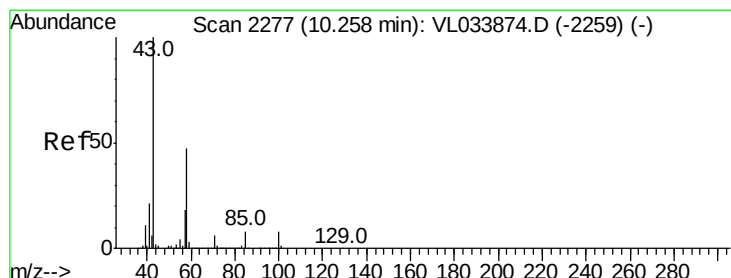
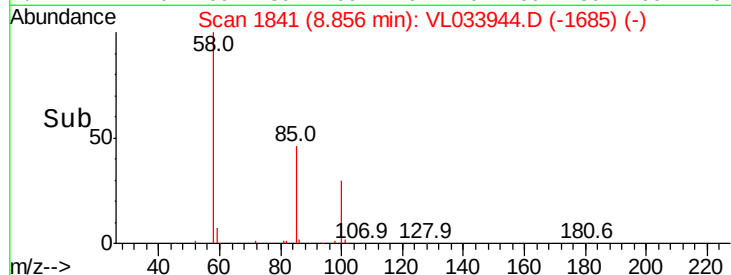
600000

400000

200000

0

Time-->



#51

2-Hexanone

Concen: 1.619 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.02 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

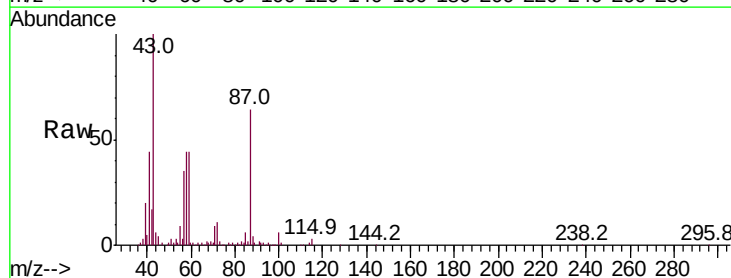
Tgt Ion: 43 Resp: 249968

Ion Ratio Lower Upper

43 100

58 48.0 38.2 57.4

98 1.0 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

120000

100000

80000

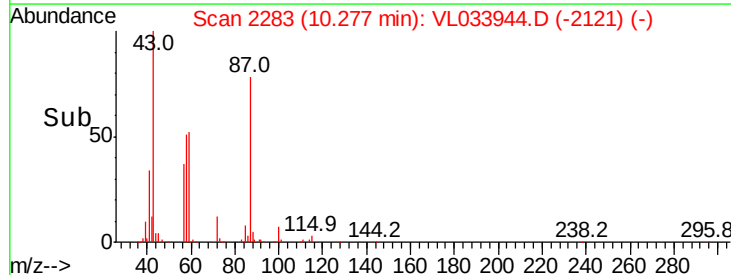
60000

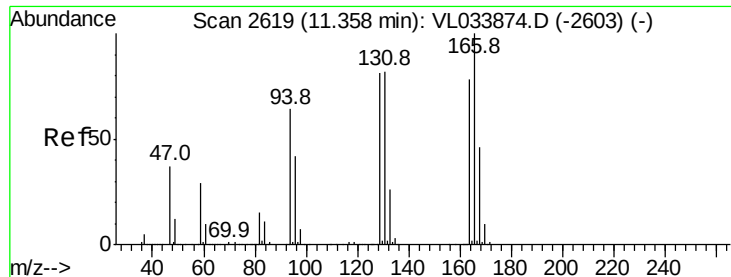
40000

20000

0

Time-->





#52

Tetrachloroethene

Concen: 1.597 ppbv

RT: 11.35 min Scan# 2618

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

Tot Ion:164 Resp: 100864

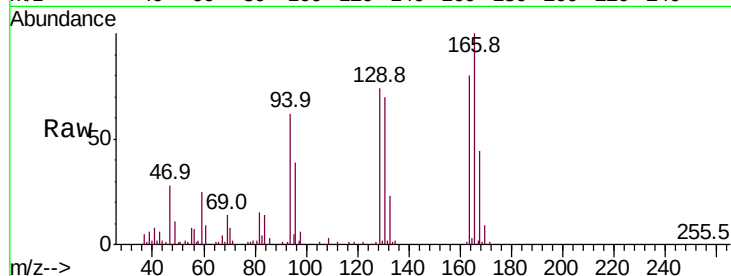
Ion Ratio Lower Upper

164 100

166 124.3 103.1 154.7

129 92.4 83.9 125.9

131 86.8 85.1 127.7

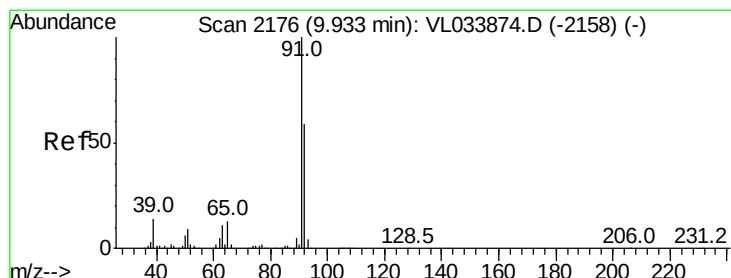
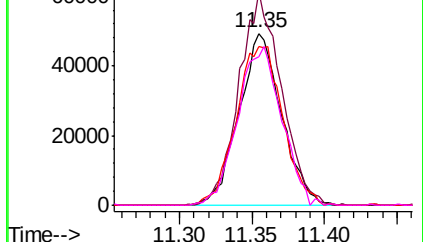
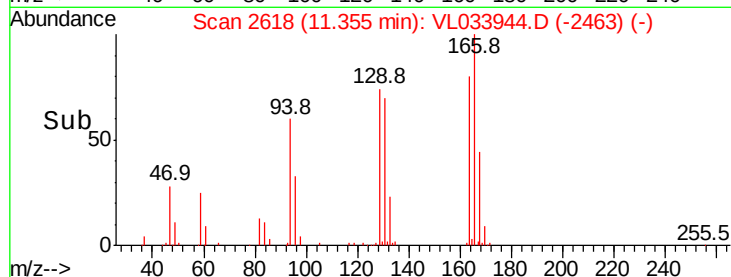


Abundance Ion 163.90 (163.60 to 164.60): V

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: 92.194 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033944.D

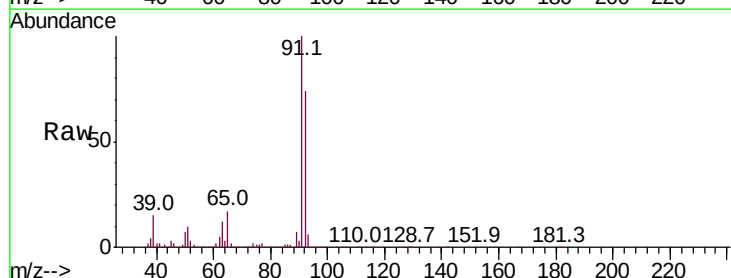
Acq: 24 Jun 2019 19:58

Tgt Ion: 91 Resp:18313528

Ion Ratio Lower Upper

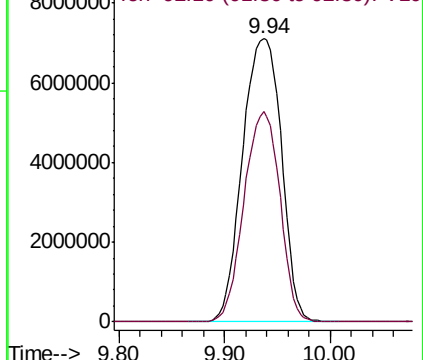
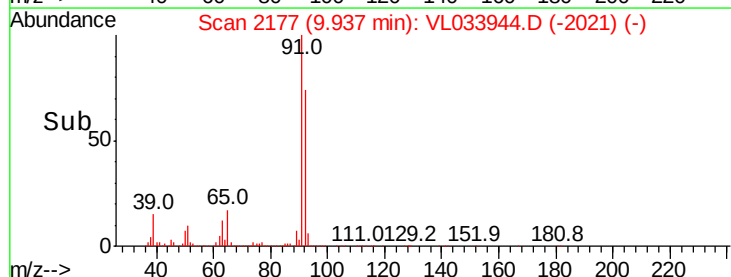
91 100

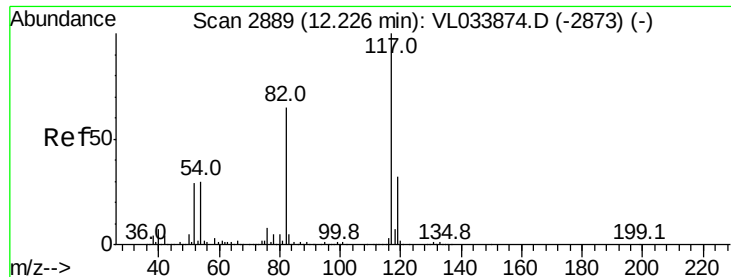
92 68.7 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

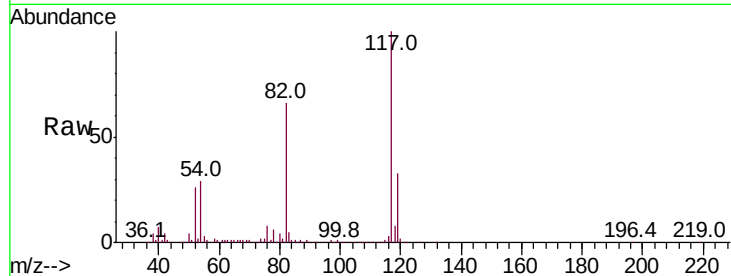




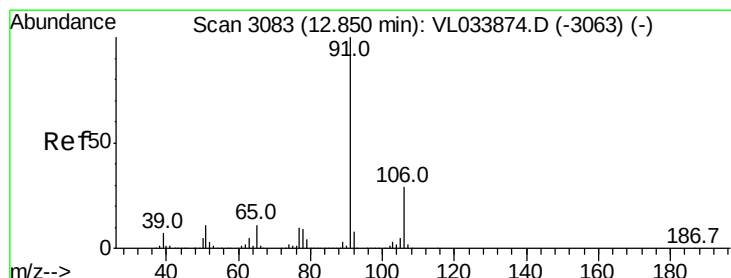
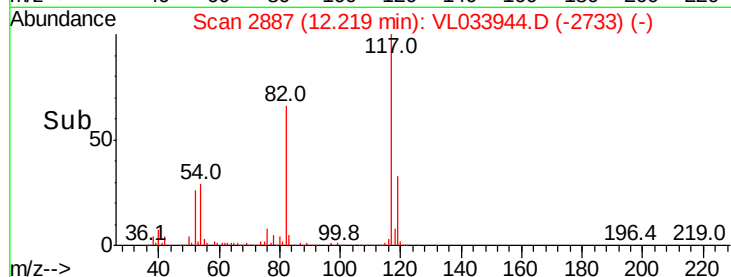
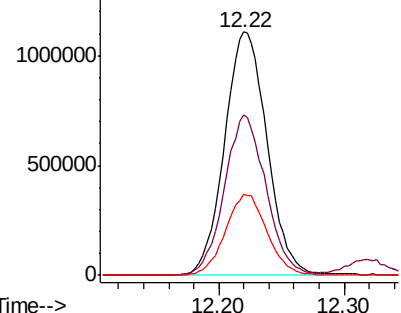
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.22 min Scan# 2887
Delta R.T. -0.01 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

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

Tot Ion:117 Resp: 2608135
Ion Ratio Lower Upper
117 100
82 64.3 50.2 75.2
119 32.7 24.8 37.2

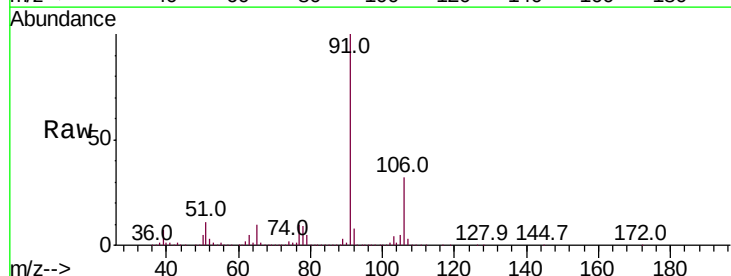


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

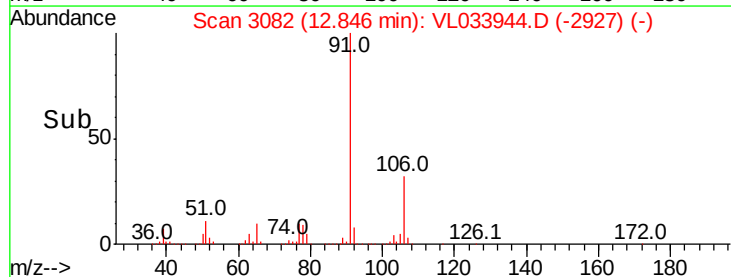
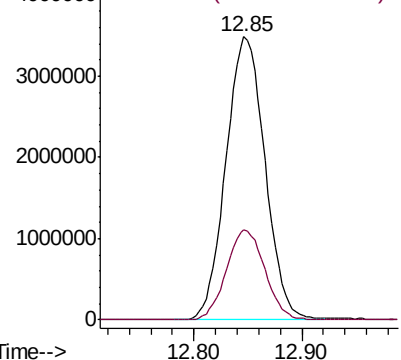


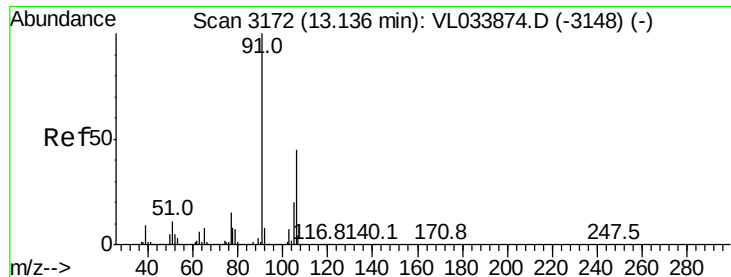
#58
Ethyl Benzene
Concen: 29.867 ppbv
RT: 12.85 min Scan# 3082
Delta R.T. -0.00 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

Tgt Ion: 91 Resp: 8782313
Ion Ratio Lower Upper
91 100
106 31.7 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
4000000 Ion 106.10 (105.80 to 106.80): V

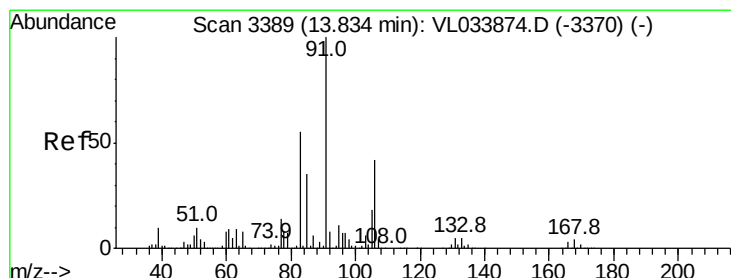
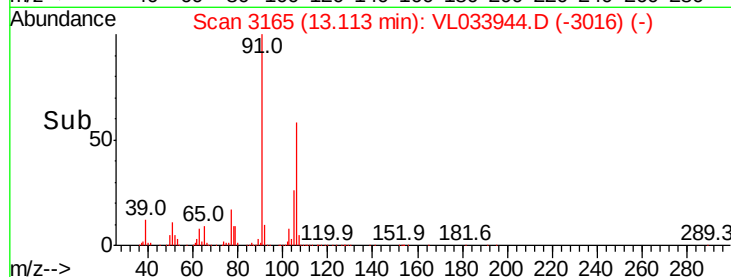
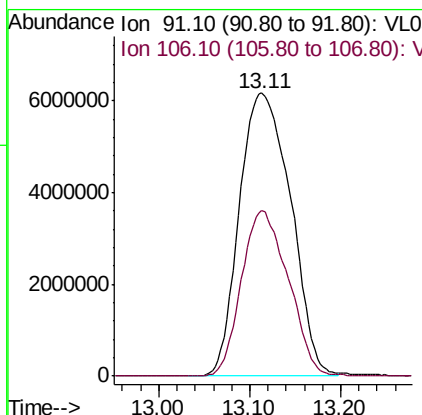
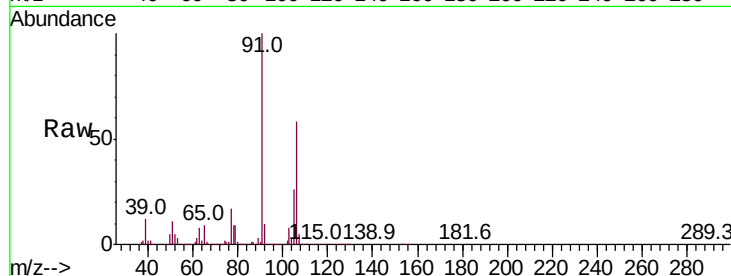




#59
m/p-Xylene
Concen: 90.188 ppbv
RT: 13.11 min Scan# 3165
Delta R.T. -0.02 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

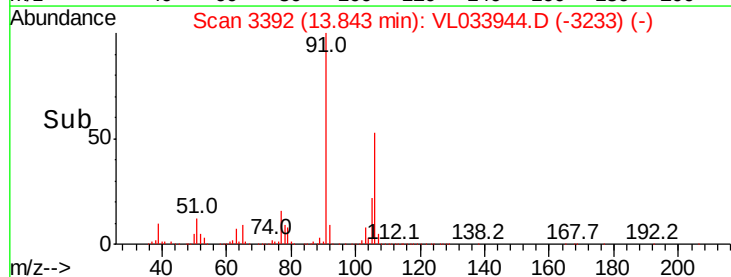
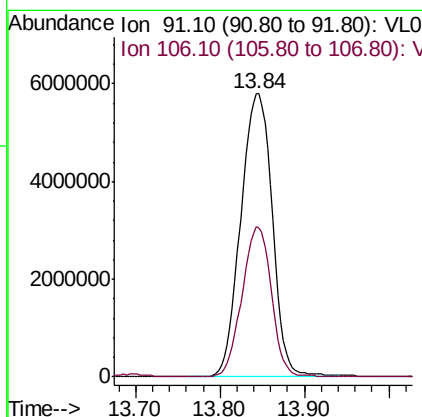
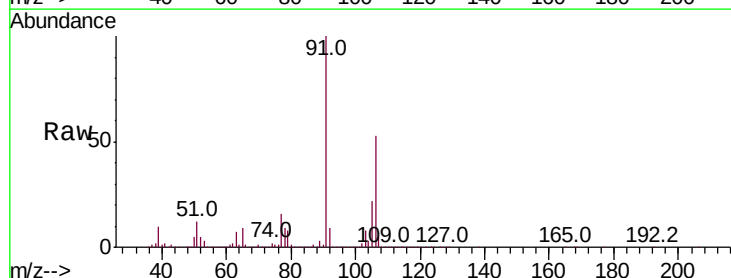
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-1

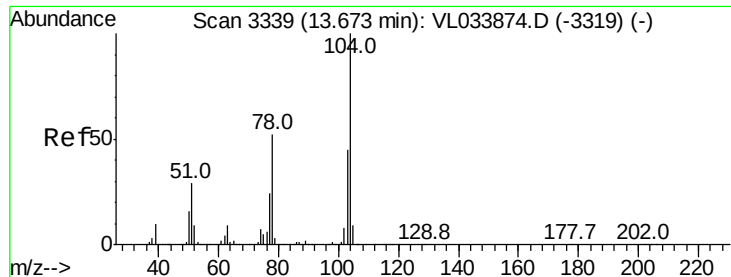
Tot Ion: 91 Resp:24116331
Ion Ratio Lower Upper
91 100
106 53.7 35.8 53.8



#60
o-Xylene
Concen: 54.652 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

Tgt Ion: 91 Resp:15088731
Ion Ratio Lower Upper
91 100
106 49.7 21.7 65.1





#61

Stvrene

Concen: 2.829 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.16 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

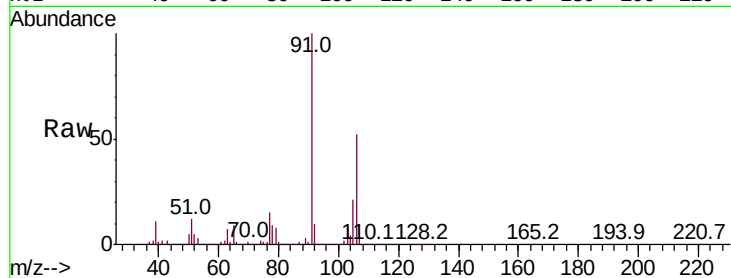
Tot Ion:104 Resp: 505419

Ion Ratio Lower Upper

104 100

78 265.0 43.4 65.0#

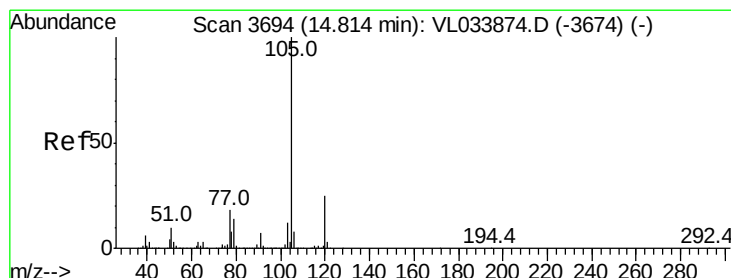
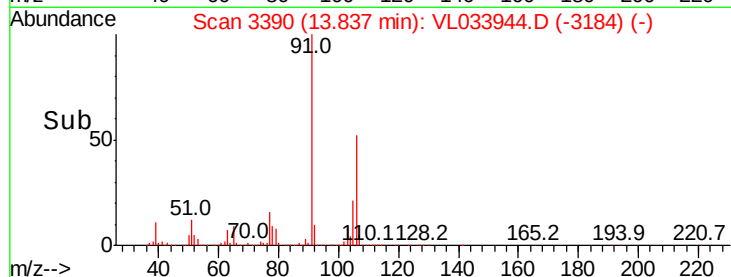
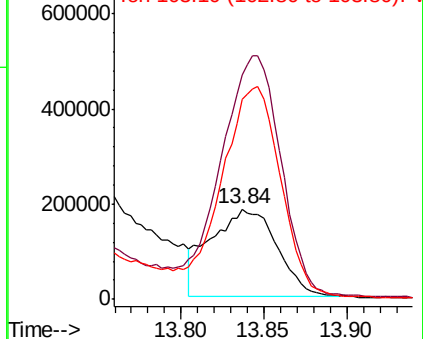
103 222.7 37.6 56.4#



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: 9.735 ppbv

RT: 14.81 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL033944.D

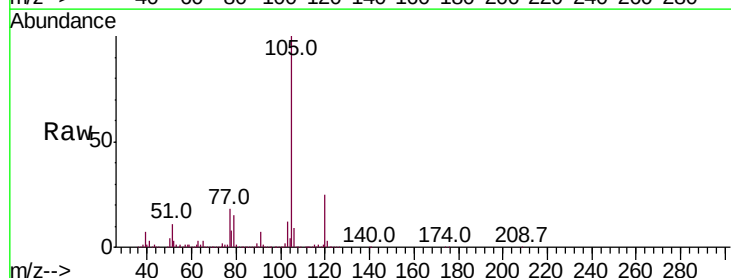
Acq: 24 Jun 2019 19:58

Tgt Ion:105 Resp: 3622592

Ion Ratio Lower Upper

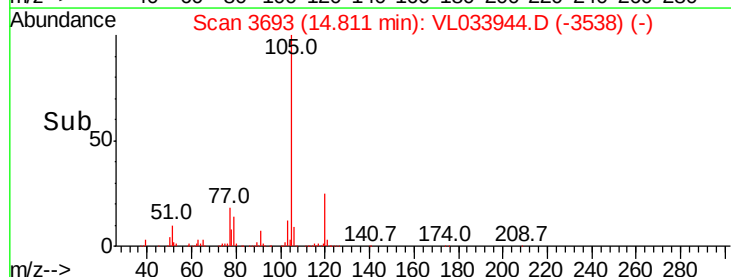
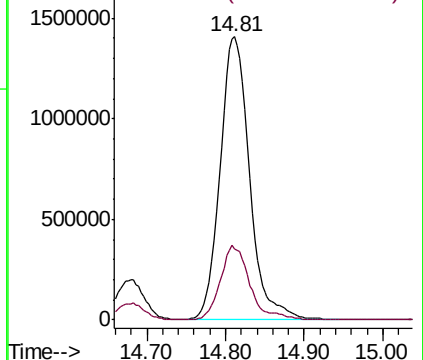
105 100

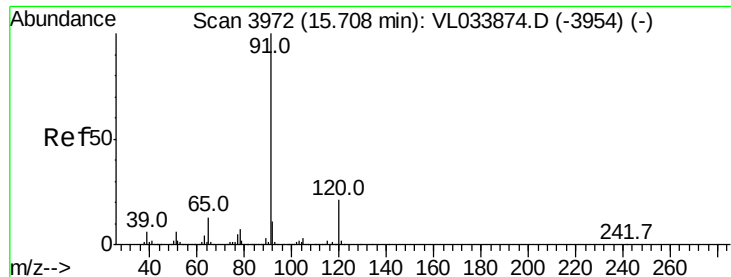
120 26.6 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 7.041 ppbv

RT: 15.70 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

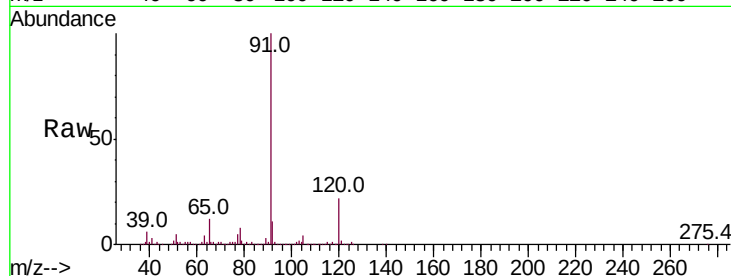
TZC-SSDS-AREA-A-1

Tot Ion:120 Resp: 670977

Ion Ratio Lower Upper

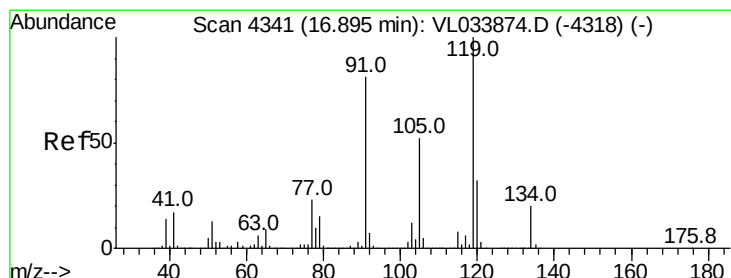
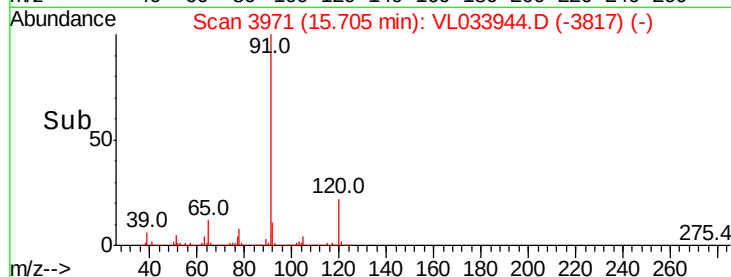
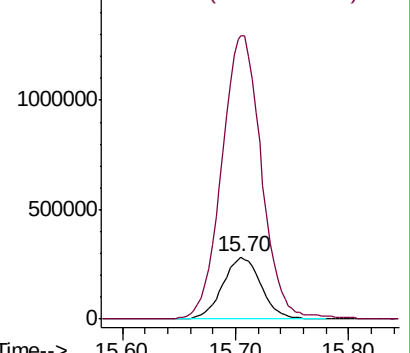
120 100

91 471.4 387.0 580.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.045 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

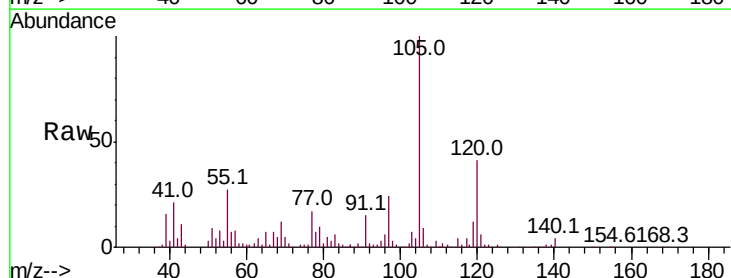
Tgt Ion:119 Resp: 15398

Ion Ratio Lower Upper

119 100

91 0.0 66.6 100.0#

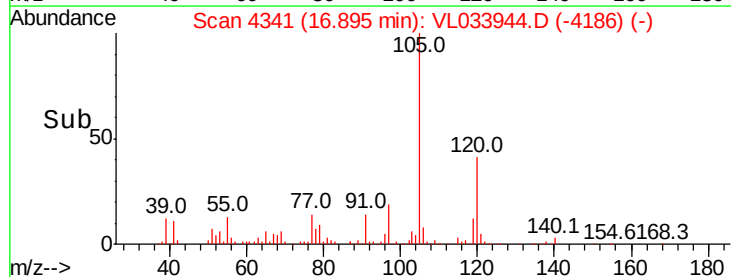
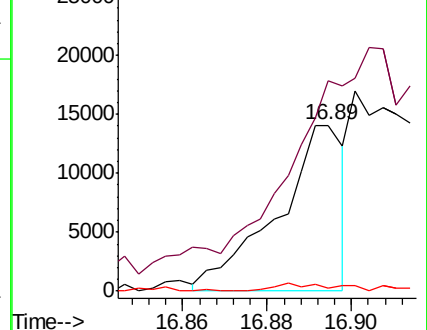
134 5.8 15.5 23.3#

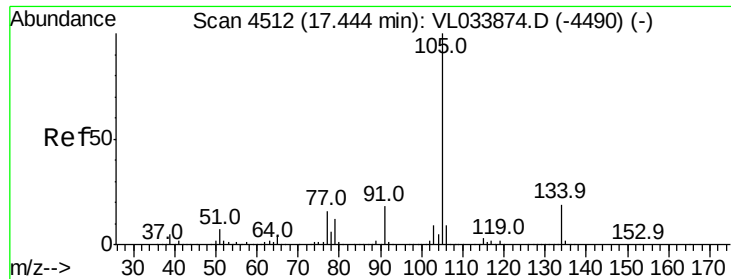


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.083 ppbv

RT: 17.43 min Scan# 4507

Delta R.T. -0.02 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

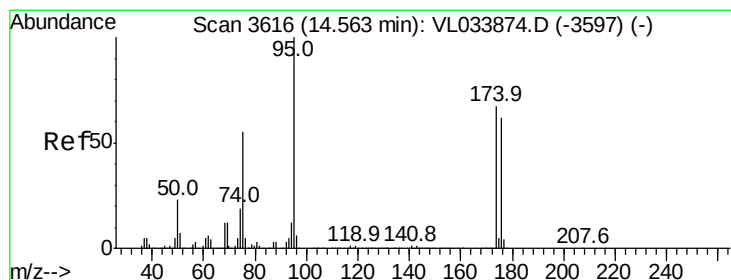
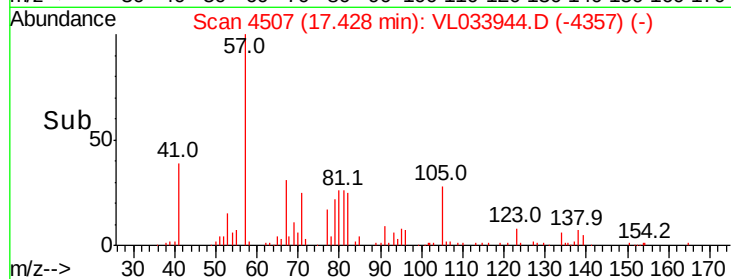
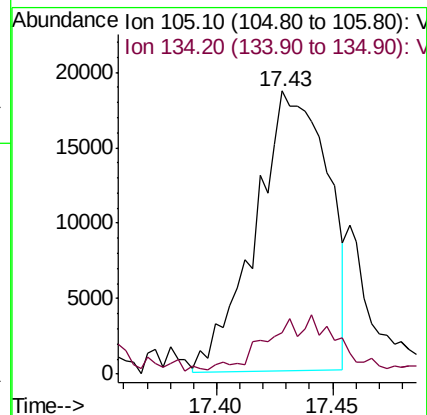
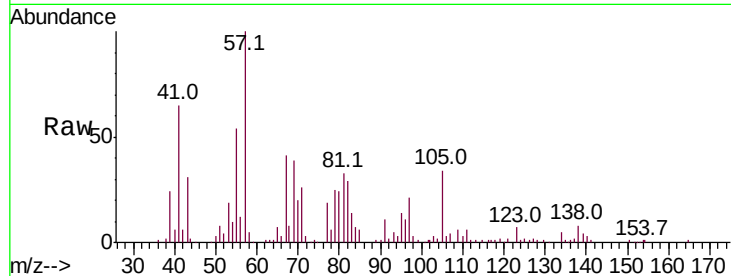
TZC-SSDS-AREA-A-1

Tot Ion:105 Resp: 40252

Ion Ratio Lower Upper

105 100

134 22.2 14.6 22.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.194 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

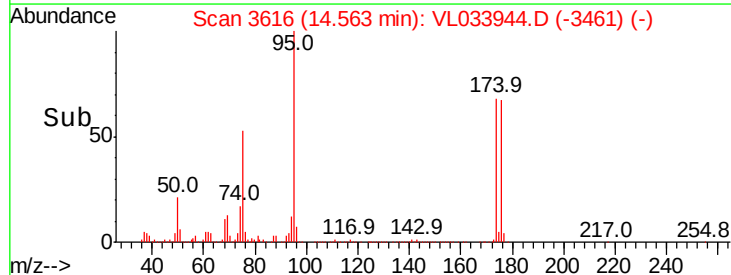
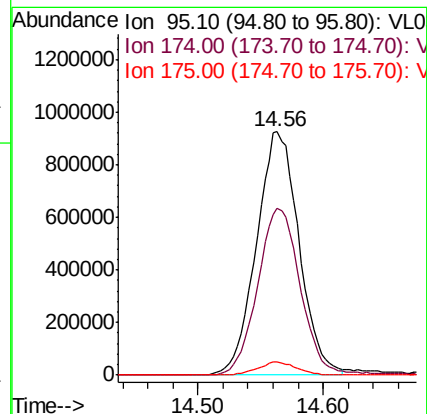
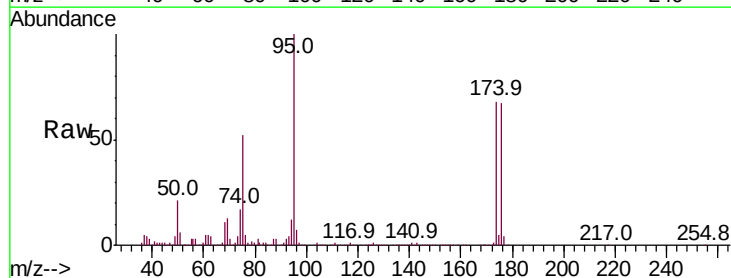
Tgt Ion: 95 Resp: 2183751

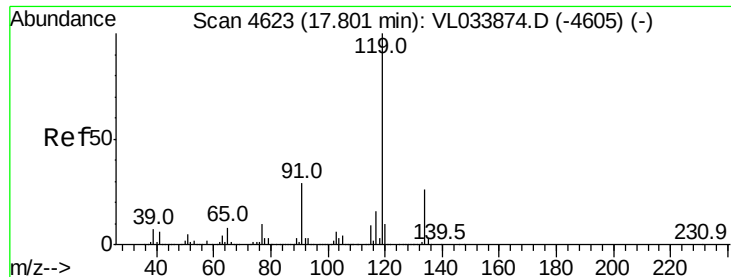
Ion Ratio Lower Upper

95 100

174 69.4 54.0 81.0

175 5.1 3.8 5.8

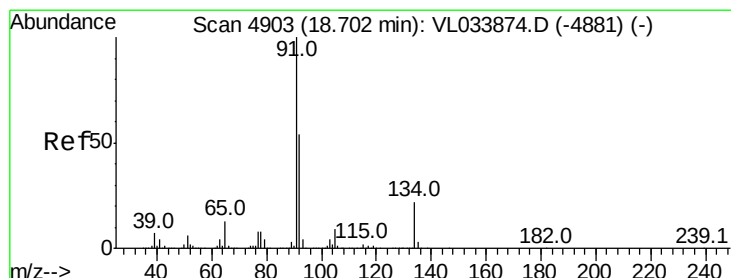
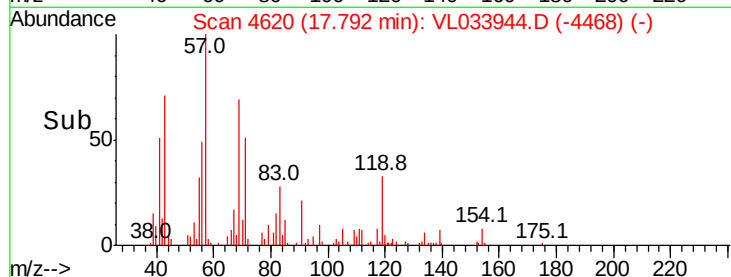
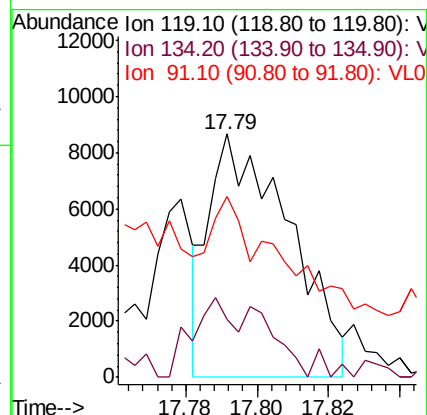
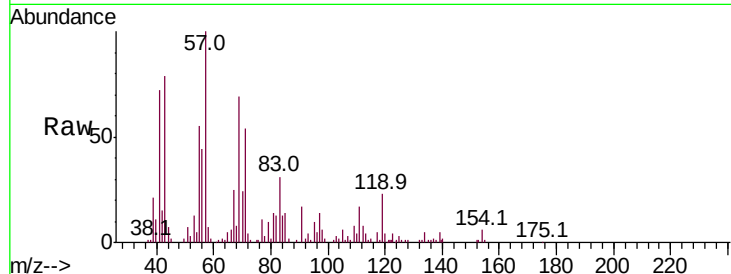




#69
 p-Isopropyltoluene
 Concen: 0.034 ppbv
 RT: 17.79 min Scan# 4620
 Delta R.T. -0.01 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

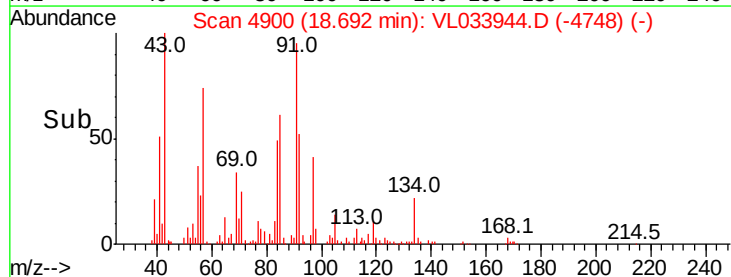
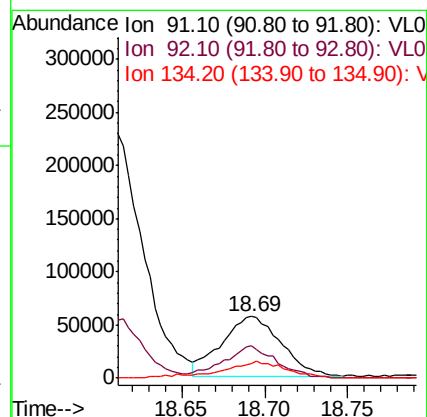
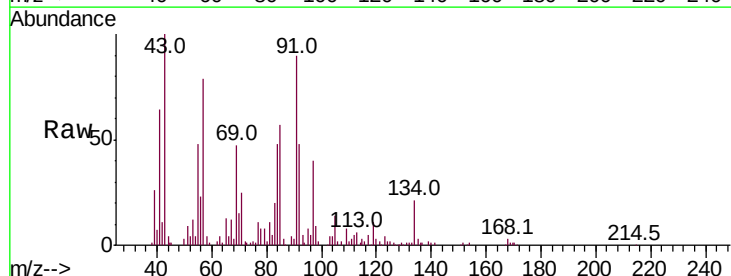
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-A-1

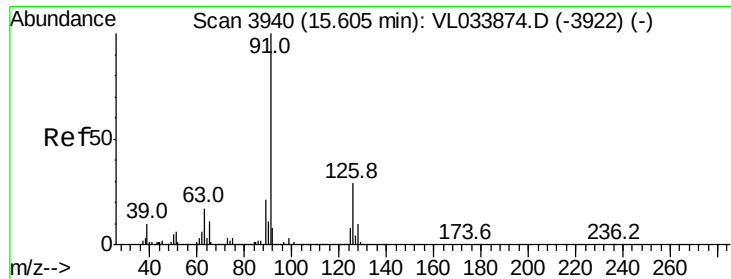
Tot Ion	Ratio	Lower	Upper
119	100		
134	38.6	20.3	30.5#
91	0.0	23.8	35.6#



#70
 n-Butylbenzene
 Concen: 0.317 ppbv
 RT: 18.69 min Scan# 4900
 Delta R.T. -0.01 min
 Lab File: VL033944.D
 Acq: 24 Jun 2019 19:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.0	42.5	63.7
134	30.4	17.8	26.6#





#71

2-Chlorotoluene

Concen: 11.364 ppbv

RT: 15.70 min Scan# 3971

Delta R.T. 0.10 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

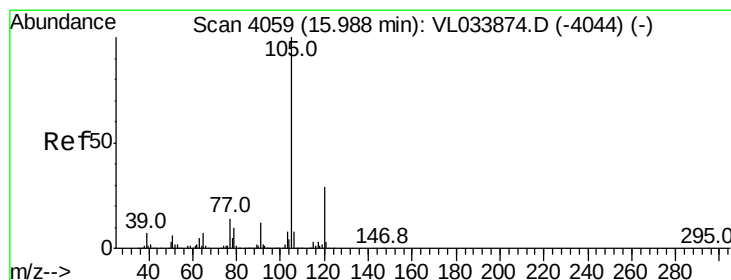
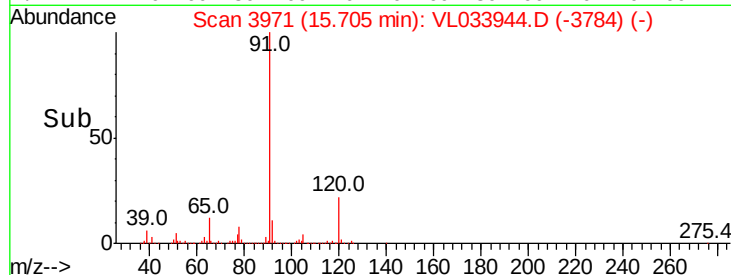
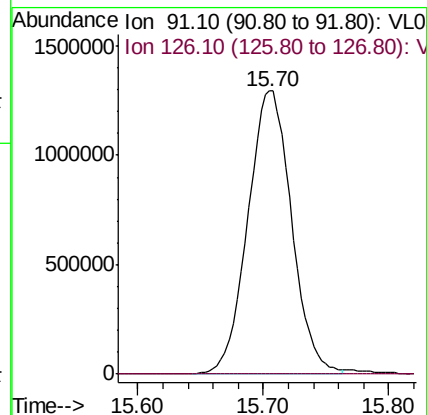
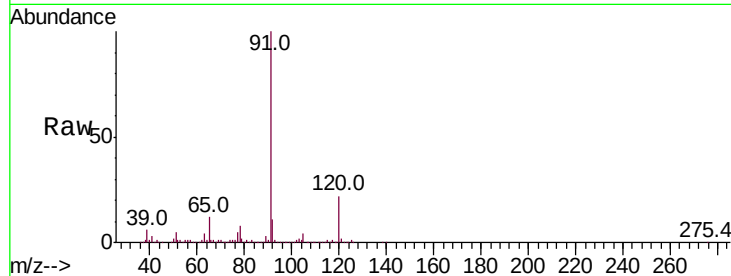
TZC-SSDS-AREA-A-1

Tot Ion: 91 Resp: 3115292

Ion Ratio Lower Upper

91 100

126 0.1 12.0 48.2#



#72

4-Ethyltoluene

Concen: 0.989 ppbv

RT: 15.98 min Scan# 4058

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Tgt Ion:105 Resp: 310857

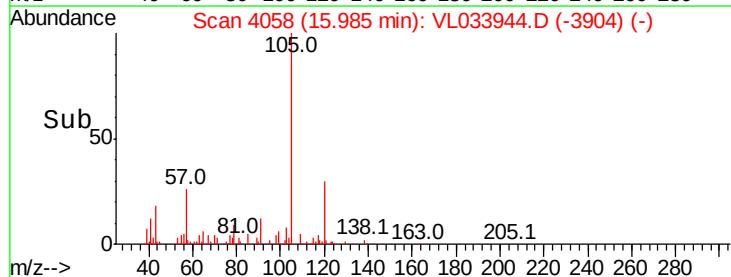
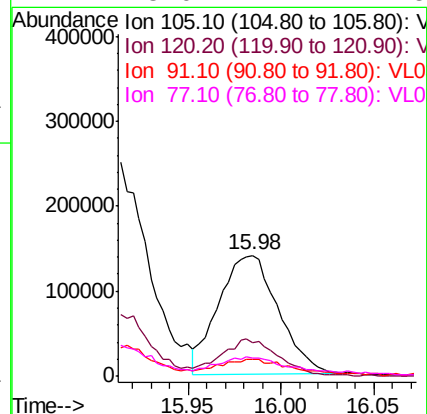
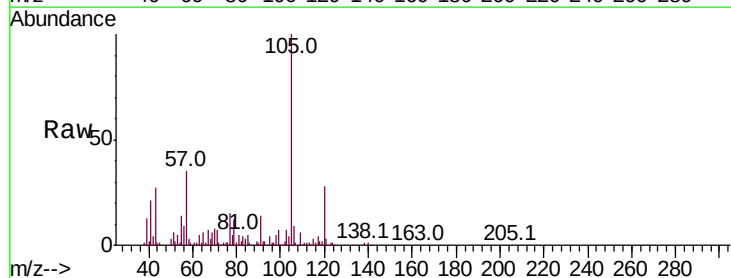
Ion Ratio Lower Upper

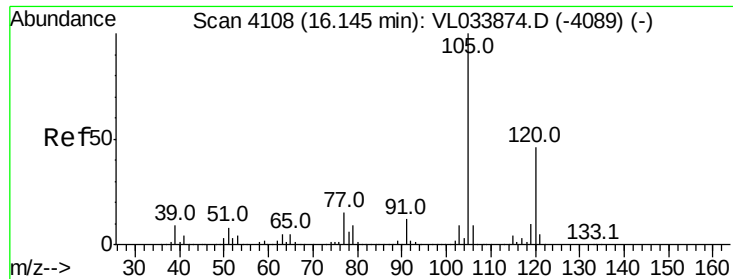
105 100

120 30.6 23.5 35.3

91 0.0 10.4 15.6#

77 18.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.305 ppbv

RT: 16.14 min Scan# 4106

Delta R.T. -0.01 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

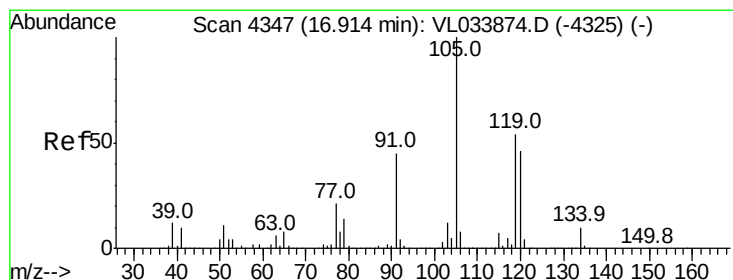
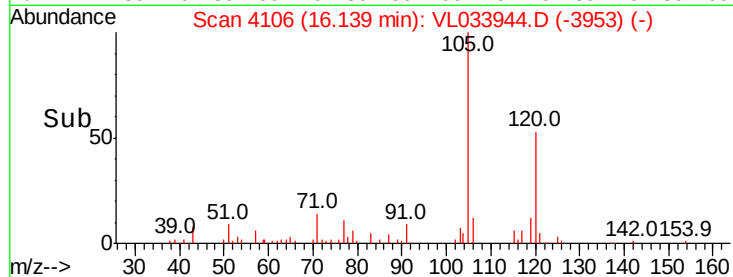
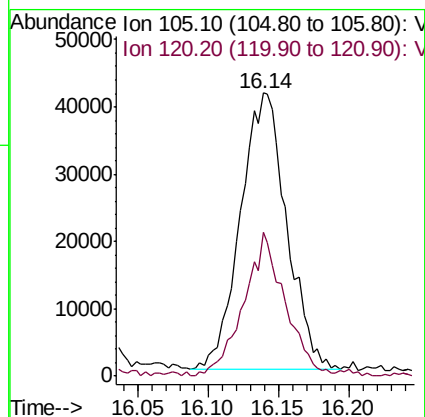
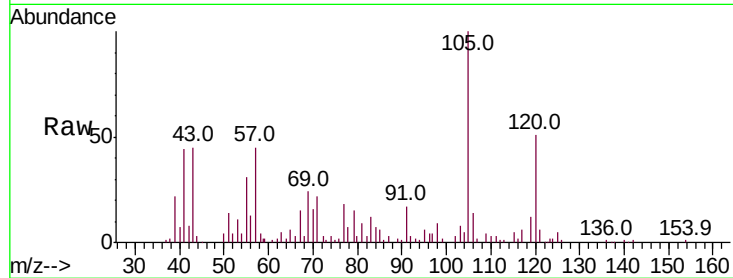
TZC-SSDS-AREA-A-1

Tot Ion:105 Resp: 94353

Ion Ratio Lower Upper

105 100

120 51.9 37.1 55.7



#74

1,2,4-Trimethylbenzene

Concen: 0.921 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Tgt Ion:105 Resp: 328548

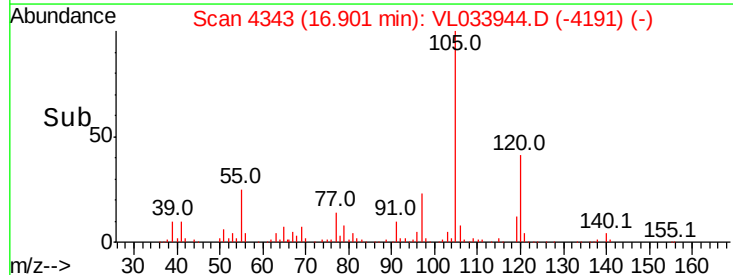
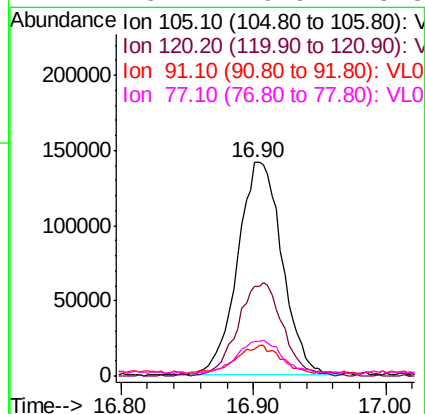
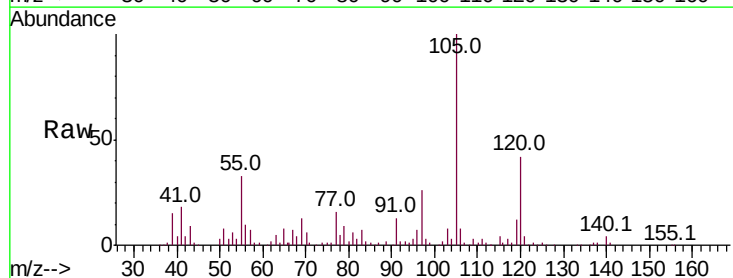
Ion Ratio Lower Upper

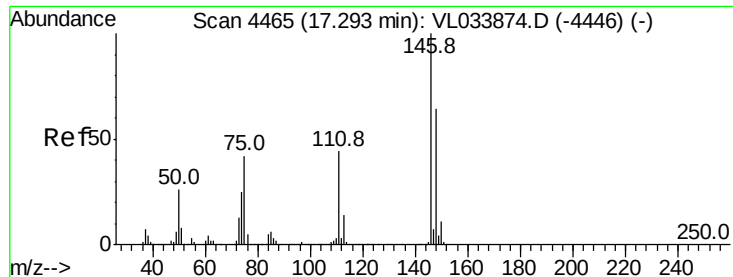
105 100

120 45.8 36.7 55.1

91 11.5 35.8 53.8#

77 15.1 16.9 25.3#

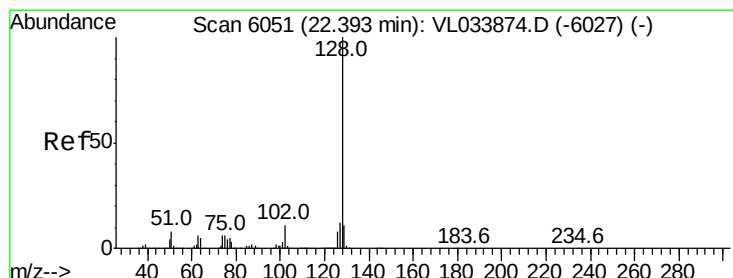
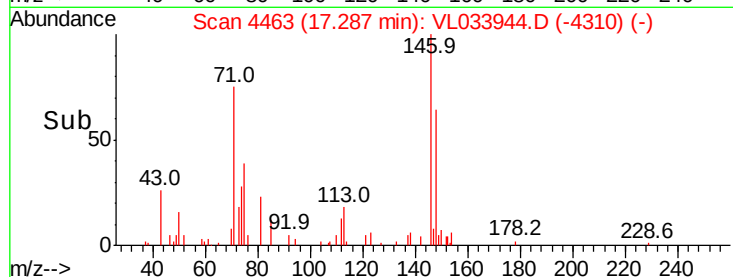
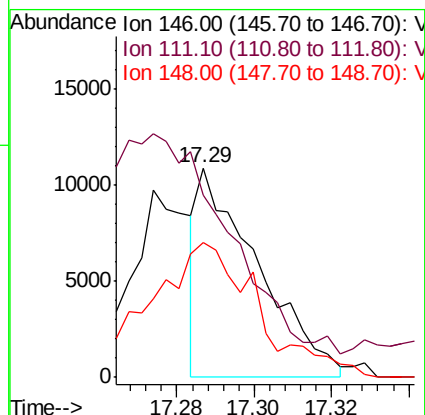
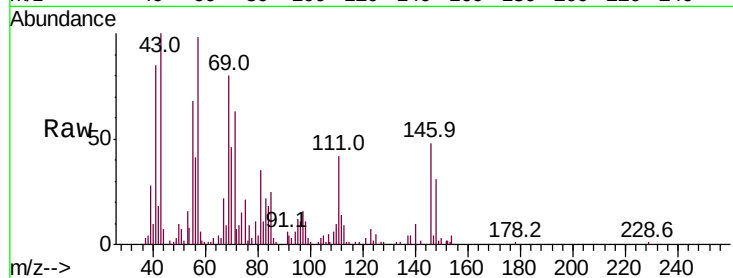




#76
1,4-Dichlorobenzene
Concen: 0.057 ppbv
RT: 17.29 min Scan# 4463
Delta R.T. -0.01 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

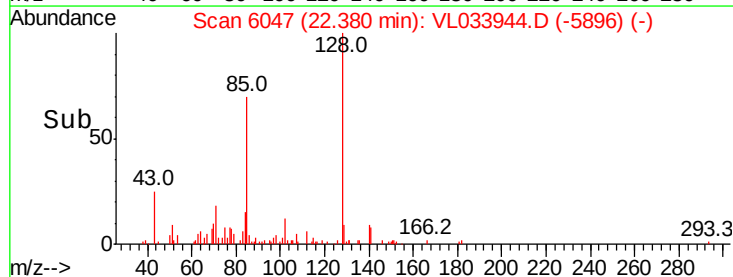
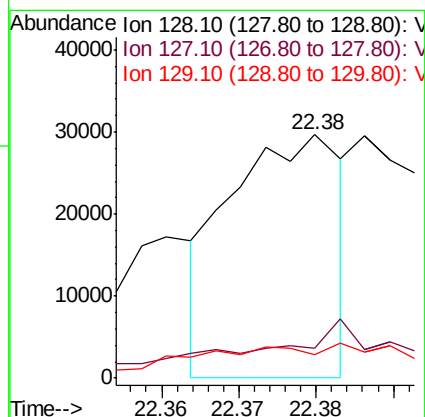
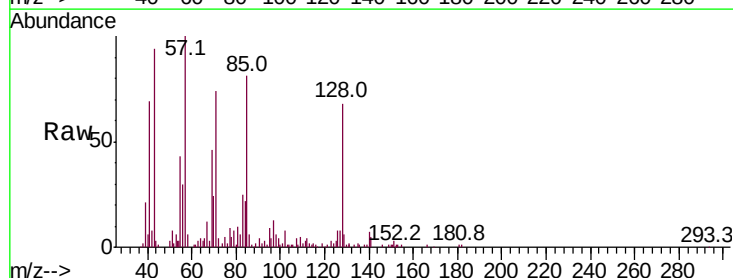
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-1

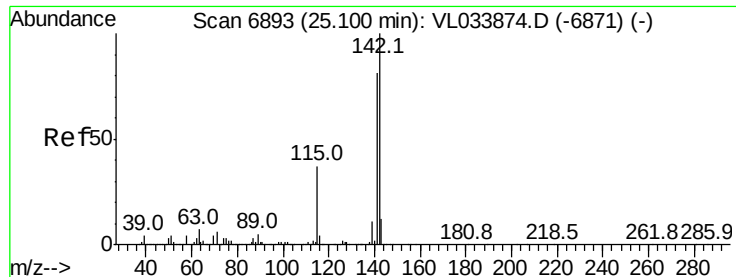
Tot Ion:146 Resp: 11603
Ion Ratio Lower Upper
146 100
111 0.0 22.1 66.5#
148 122.0 32.4 97.0#



#79
Naphthalene
Concen: 0.105 ppbv
RT: 22.38 min Scan# 6047
Delta R.T. -0.01 min
Lab File: VL033944.D
Acq: 24 Jun 2019 19:58

Tgt Ion:128 Resp: 29887
Ion Ratio Lower Upper
128 100
127 4.7 9.7 14.5#
129 1.7 8.6 12.8#





#80

Naphthalene, 2-methyl-

Concen: 0.065 ppbv

RT: 25.10 min Scan# 6893

Delta R.T. -0.00 min

Lab File: VL033944.D

Acq: 24 Jun 2019 19:58

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-1

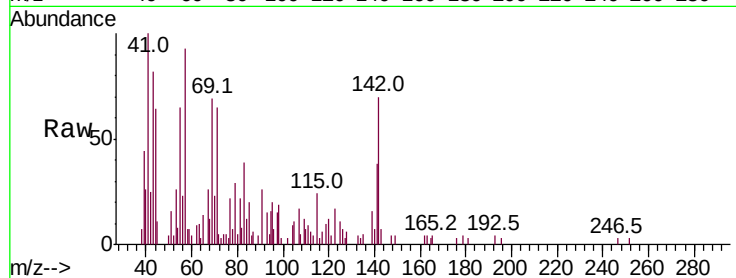
Tot Ion:142 Resp: 7441

Ion Ratio Lower Upper

142 100

141 92.1 65.7 98.5

115 78.2 28.9 43.3#



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

