

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033951.D
 Acq On : 25 Jun 2019 00:35
 Operator : SY/AP
 Sample : K3481-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-C-2DL

Quant Time: Jun 25 03:41:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	862336	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.26	114	2076254	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2137074	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.54	95	1740545	9.92	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%	

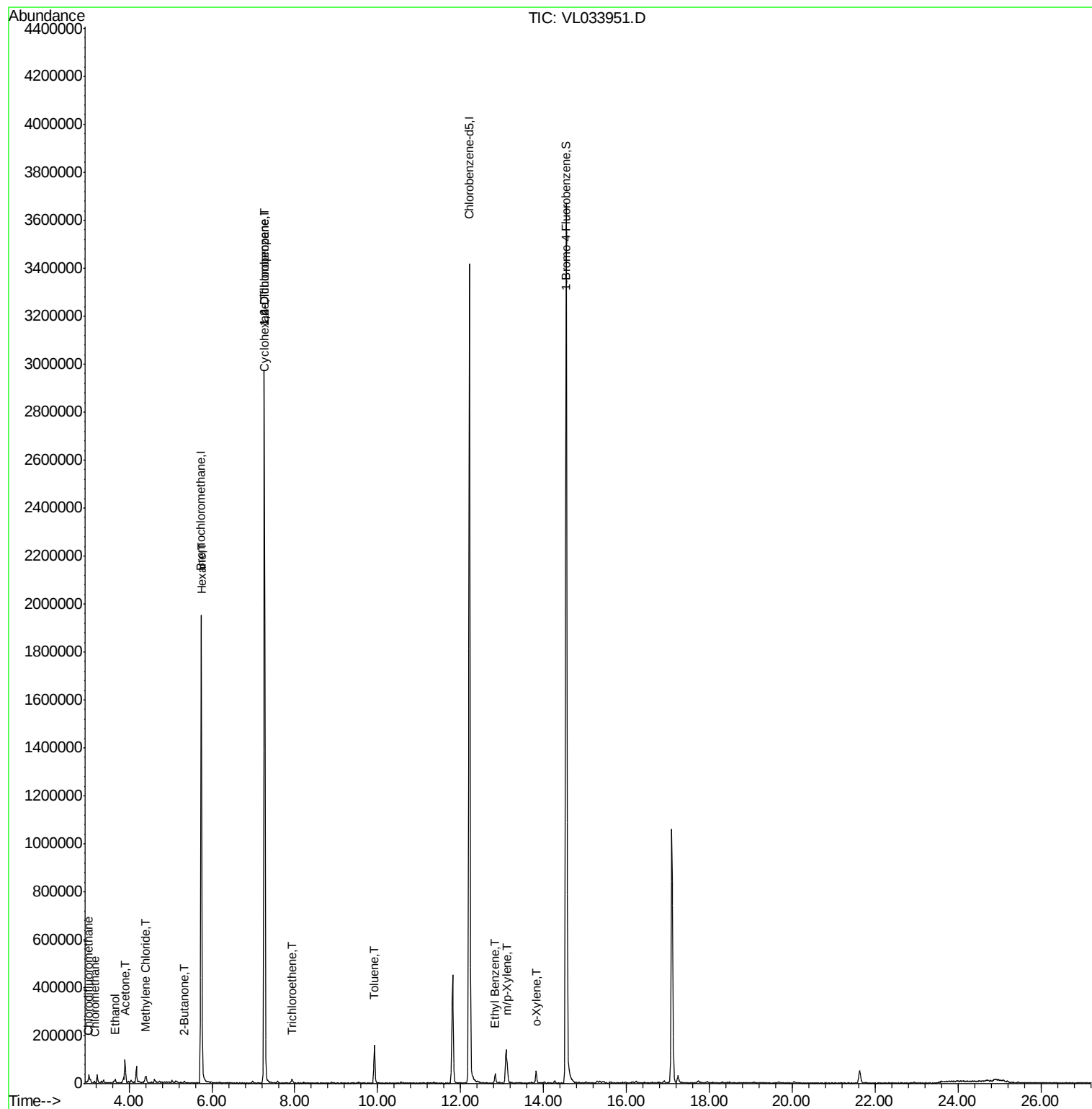
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	8723	0.086	ppbv #	91
4) Chloromethane	3.16	50	3102	0.054	ppbv	98
13) Ethanol	3.66	45	7215	0.584	ppbv #	37
15) Acetone	3.90	43	91210	0.725	ppbv	99
20) Methylene Chloride	4.39	84	4665	0.095	ppbv #	82
26) Hexane	5.75	57	6474	0.074	ppbv #	1
30) Cyclohexane	7.25	84	4017	0.065	ppbv #	1
34) 2-Butanone	5.34	43	8338	0.071	ppbv #	88
38) Trichloroethene	7.94	130	3059	0.050	ppbv #	35
39) 1,2-Dichloropropane	7.26	63	523701	8.555	ppbv #	25
53) Toluene	9.92	91	75536	0.430	ppbv #	21
58) Ethyl Benzene	12.83	91	19603	0.081	ppbv	97
59) m/p-Xylene	13.12	91	31500	0.144	ppbv #	31
60) o-Xylene	13.82	91	33893	0.150	ppbv	99

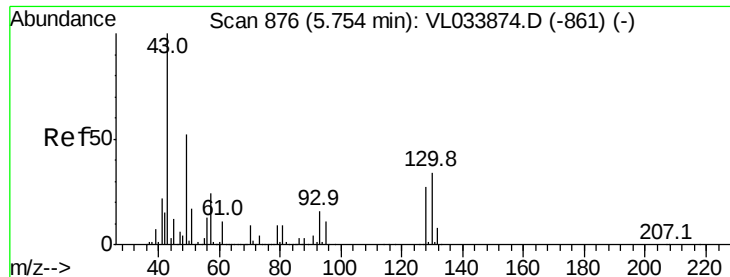
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-C-2DL

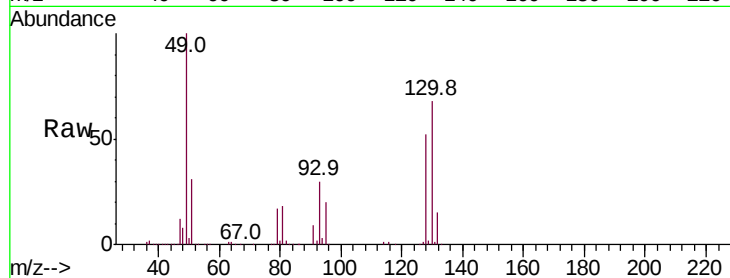
Tot Ion: 49 Resp: 862336

Ion Ratio Lower Upper

49 100

128 51.9 25.5 76.5

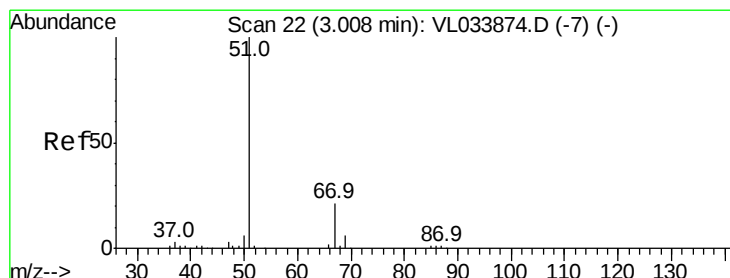
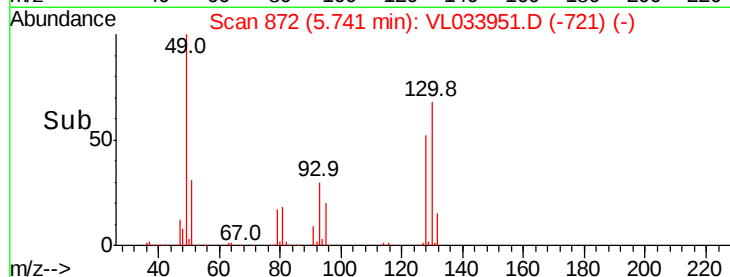
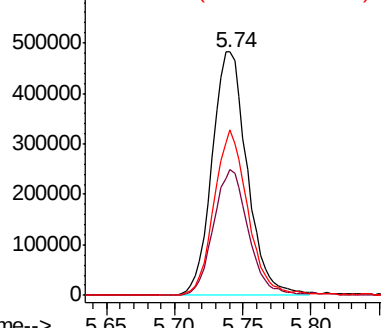
130 65.9 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 0.086 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.01 min

Lab File: VL033951.D

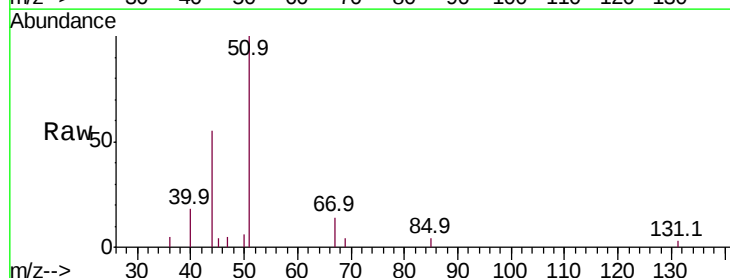
Acq: 25 Jun 2019 00:35

Tgt Ion: 51 Resp: 8723

Ion Ratio Lower Upper

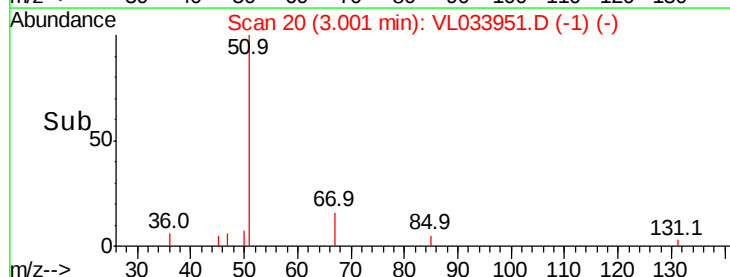
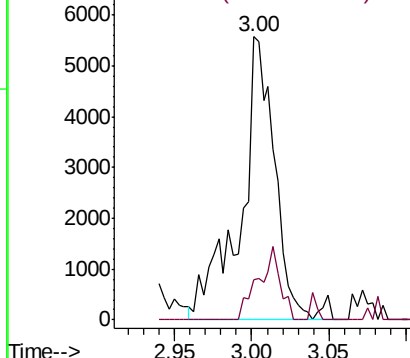
51 100

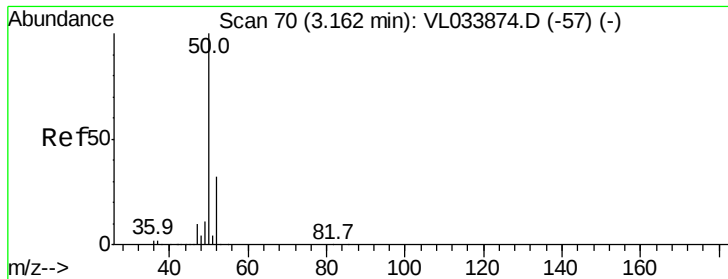
67 16.3 16.4 24.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.054 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

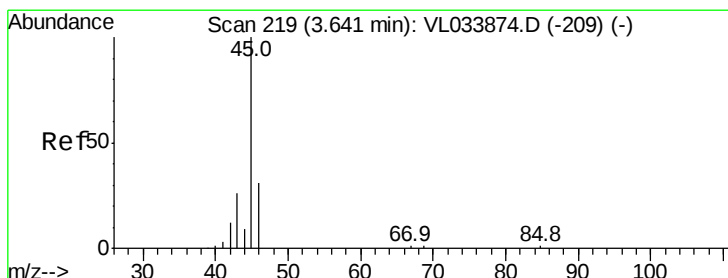
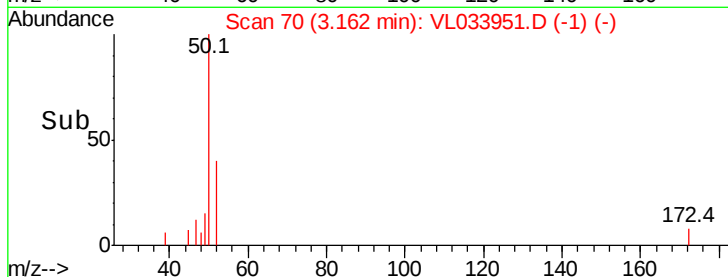
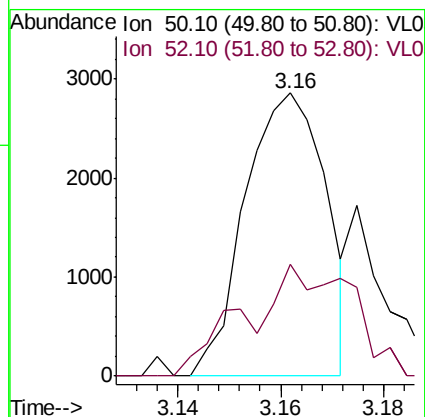
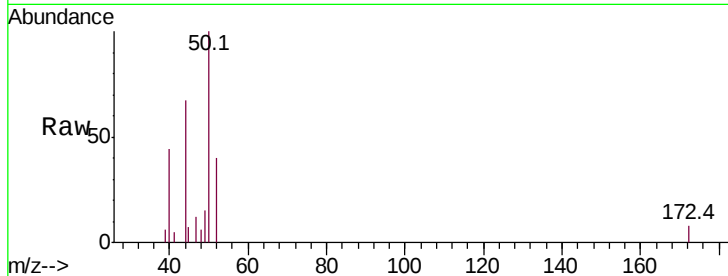
TZC-SSDS-AREA-C-2DL

Tot Ion: 50 Resp: 3102

Ion Ratio Lower Upper

50 100

52 32.7 25.4 38.0



#13

Ethanol

Concen: 0.584 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.02 min

Lab File: VL033951.D

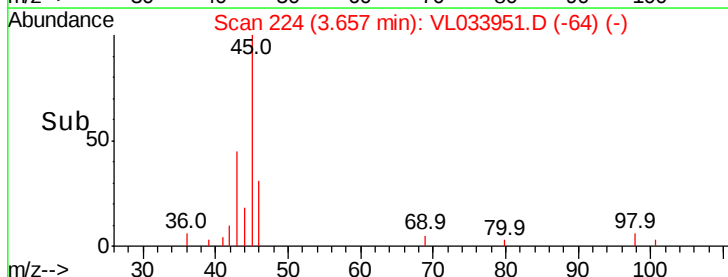
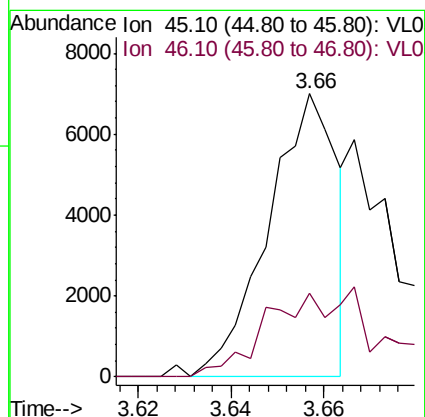
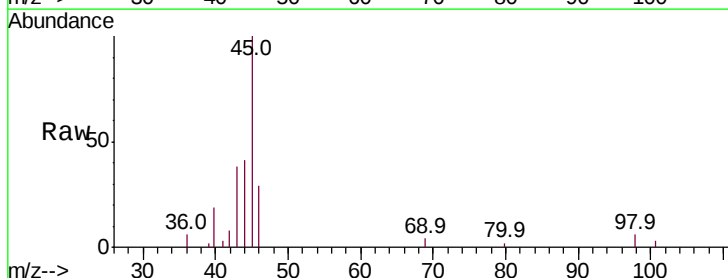
Acq: 25 Jun 2019 00:35

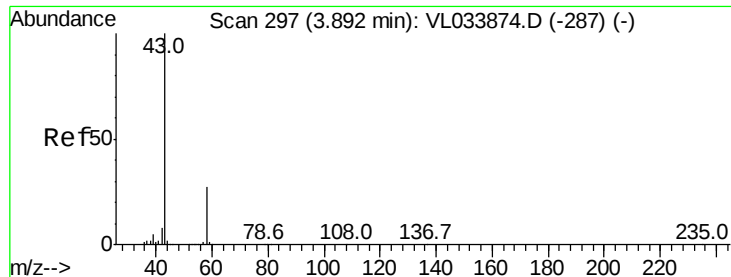
Tgt Ion: 45 Resp: 7215

Ion Ratio Lower Upper

45 100

46 0.0 15.3 61.1#





#15

Acetone

Concen: 0.725 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

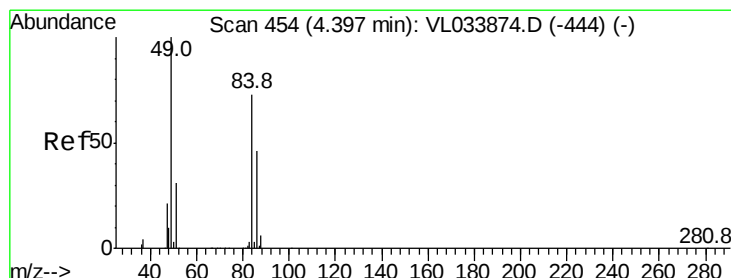
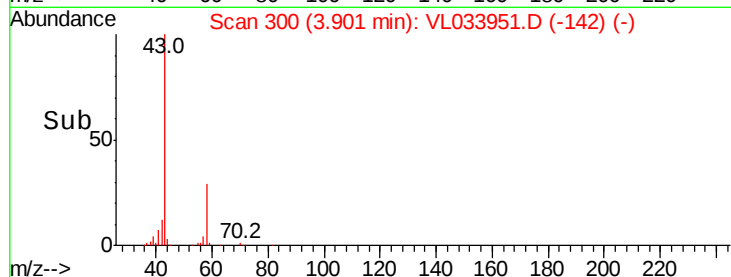
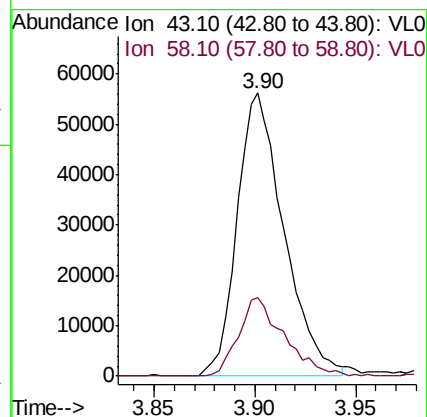
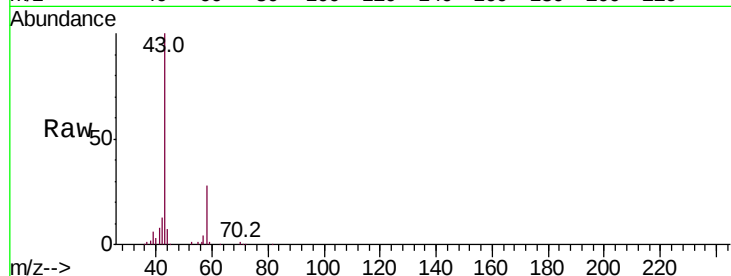
TZC-SSDS-AREA-C-2DL

Tot Ion: 43 Resp: 91210

Ion Ratio Lower Upper

43 100

58 27.3 21.3 31.9



#20

Methylene Chloride

Concen: 0.095 ppbv

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Tgt Ion: 84 Resp: 4665

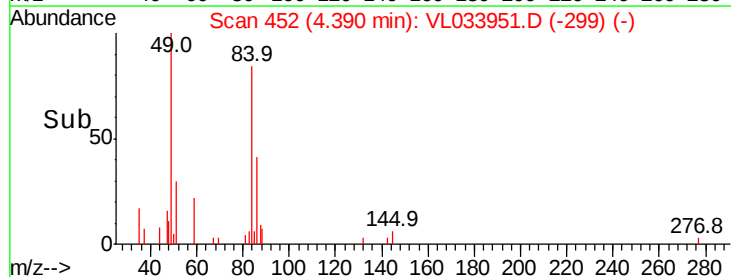
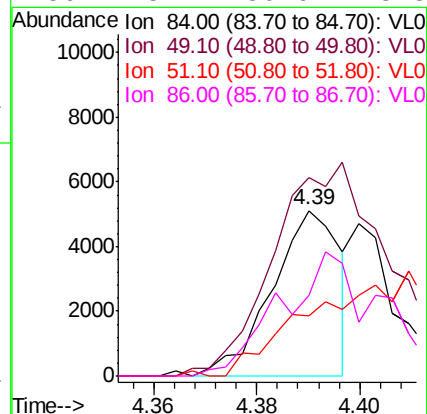
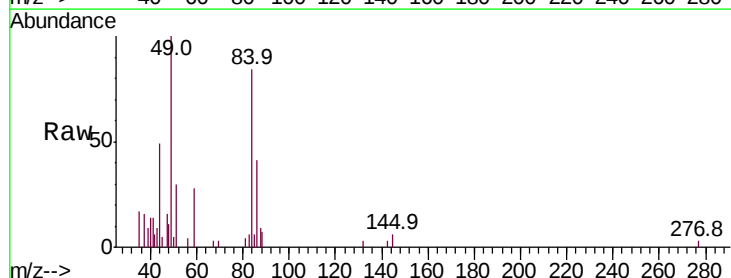
Ion Ratio Lower Upper

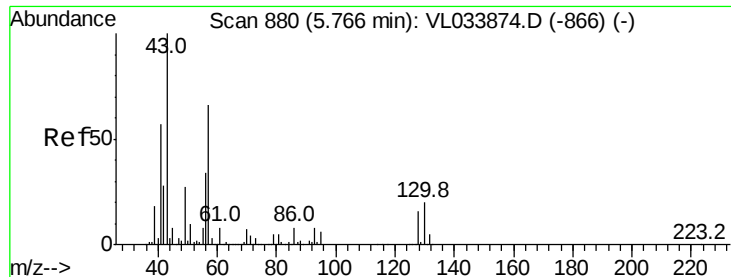
84 100

49 115.1 110.0 165.0

51 33.3 34.6 51.8#

86 48.7 50.6 75.8#

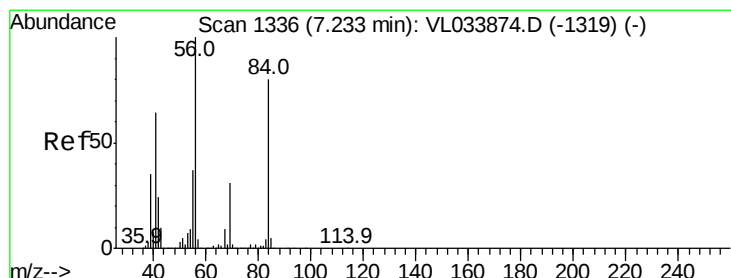
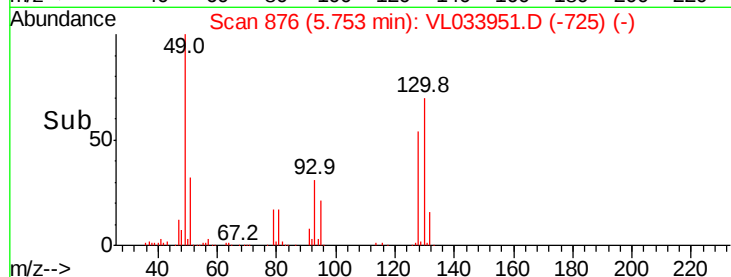
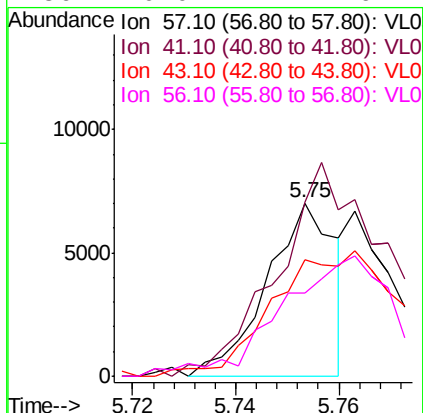
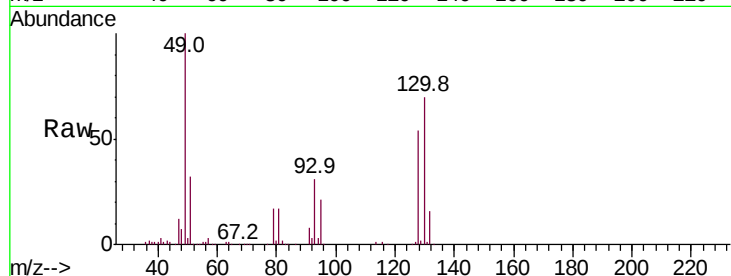




#26
Hexane
Concen: 0.074 ppbv
RT: 5.75 min Scan# 876
Delta R.T. -0.01 min
Lab File: VL033951.D
Acq: 25 Jun 2019 00:35

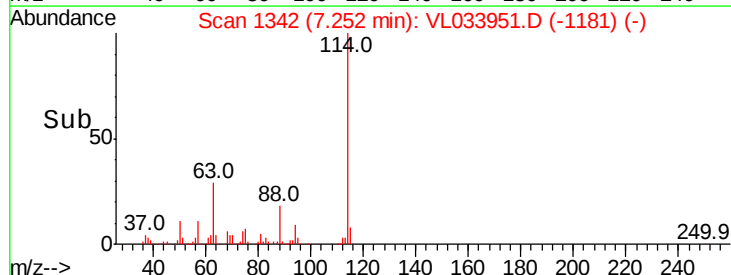
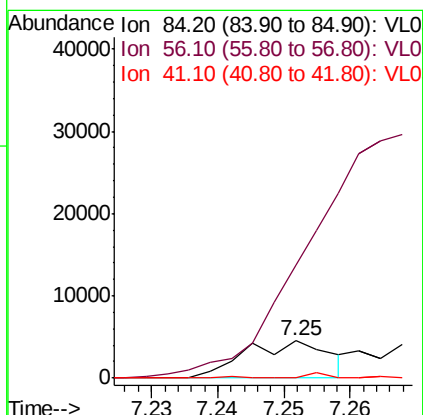
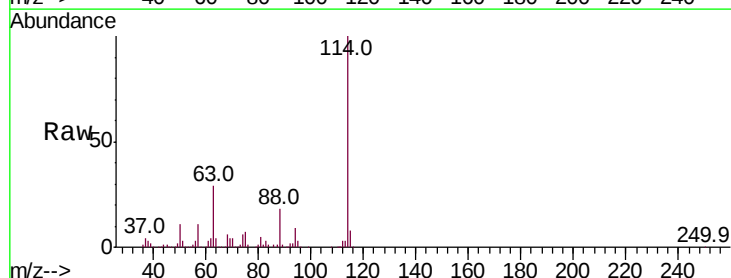
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-C-2DL

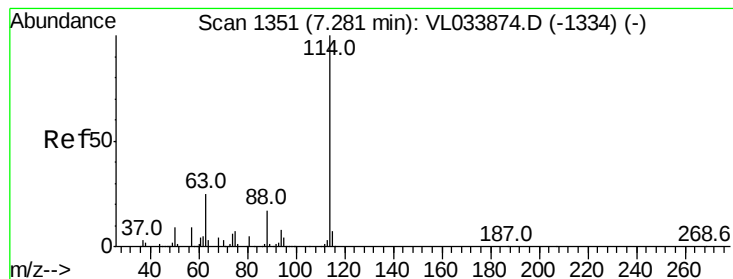
Tot Ion: 57 Resp: 6474
Ion Ratio Lower Upper
57 100
41 199.8 71.4 107.2#
43 0.0 183.7 275.5#
56 0.0 42.7 64.1#



#30
Cyclohexane
Concen: 0.065 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.02 min
Lab File: VL033951.D
Acq: 25 Jun 2019 00:35

Tgt Ion: 84 Resp: 4017
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: 7.26 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-C-2DL

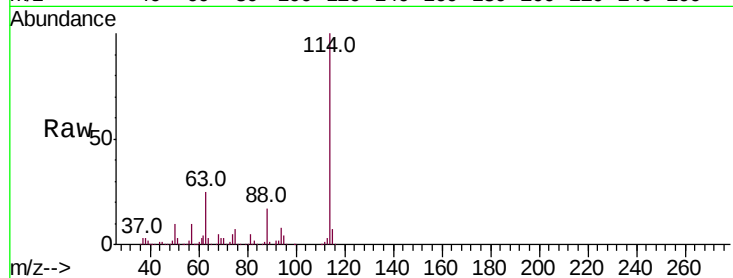
Tot Ion:114 Resp: 2076254

Ion Ratio Lower Upper

114 100

63 25.4 21.1 31.7

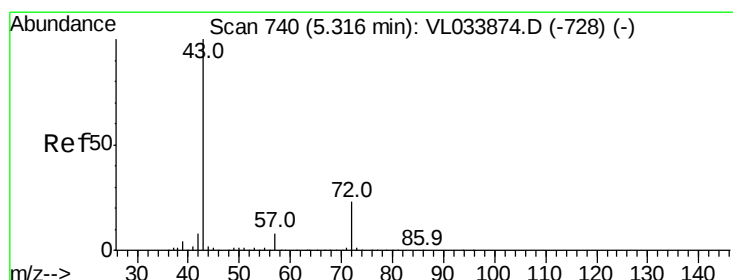
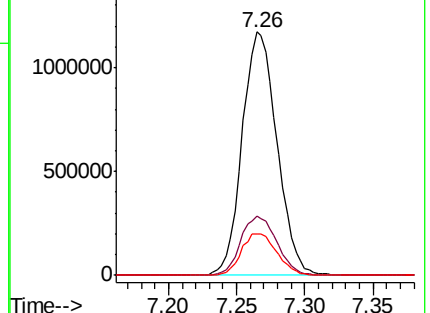
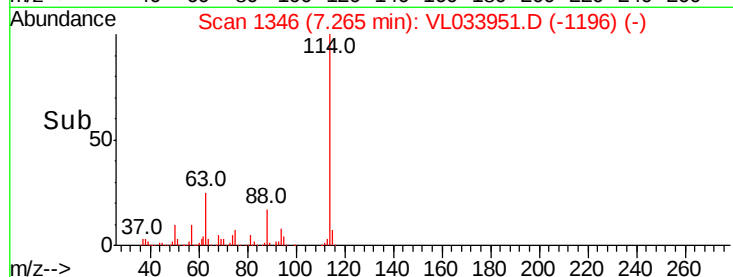
88 17.5 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.071 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.02 min

Lab File: VL033951.D

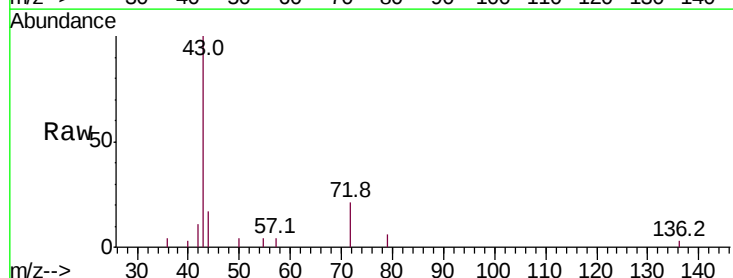
Acq: 25 Jun 2019 00:35

Tgt Ion: 43 Resp: 8338

Ion Ratio Lower Upper

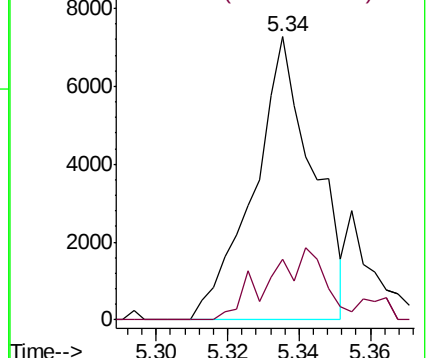
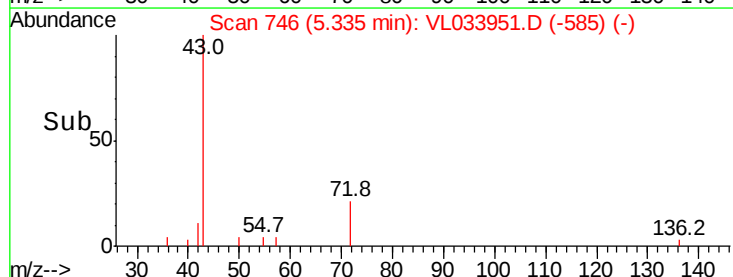
43 100

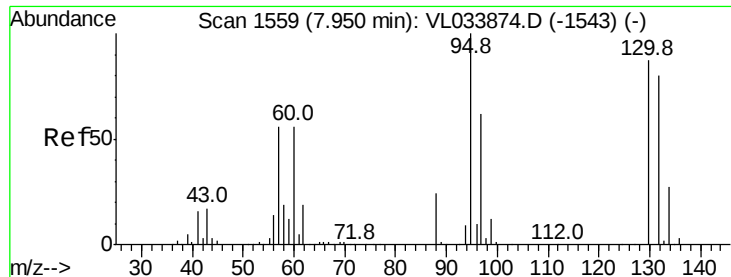
72 28.4 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 0.050 ppbv

RT: 7.94 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-C-2DL

Tot Ion:130 Resp: 3059

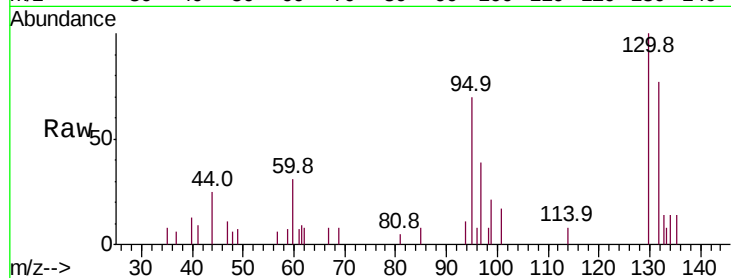
Ion Ratio Lower Upper

130 100

95 32.2 92.0 138.0#

132 45.0 73.8 110.8#

97 16.4 57.2 85.8#

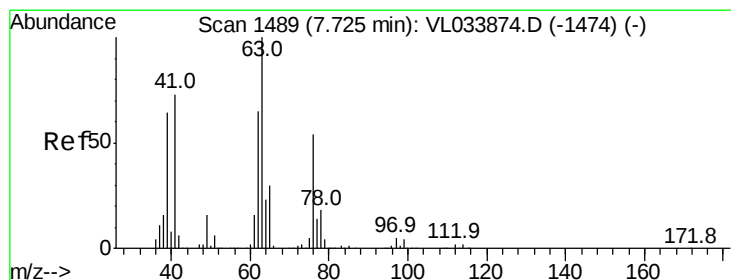
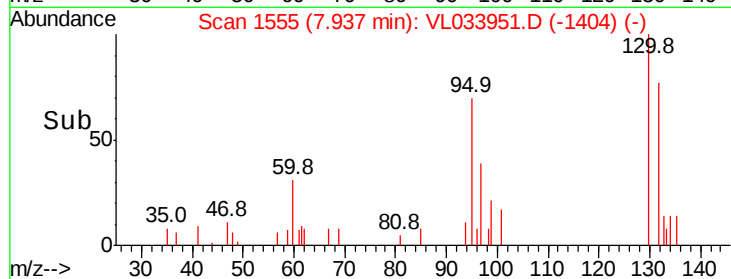
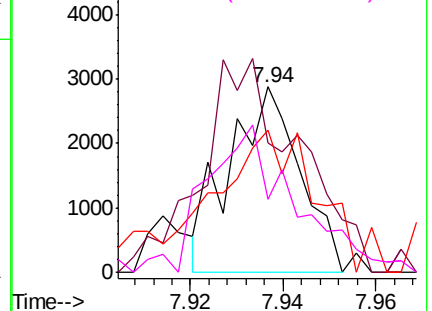


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.555 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. -0.46 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

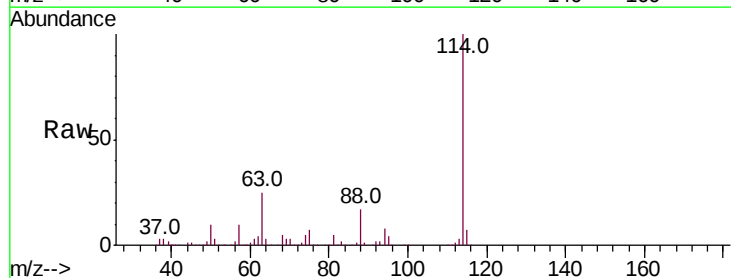
Tgt Ion: 63 Resp: 523701

Ion Ratio Lower Upper

63 100

41 0.1 58.7 88.1#

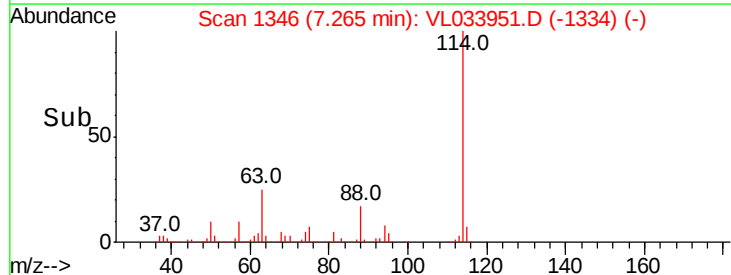
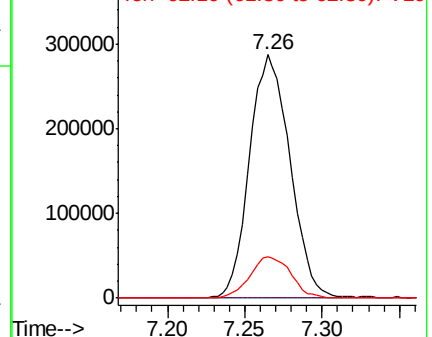
62 17.1 51.9 77.9#

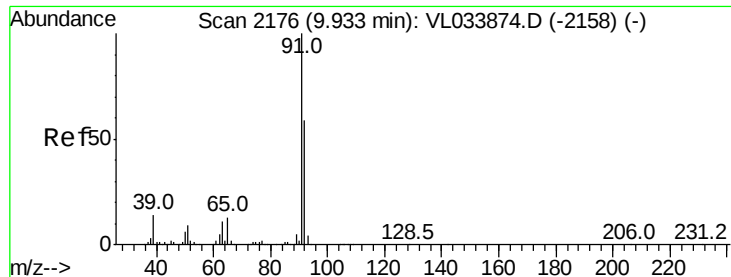


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.430 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

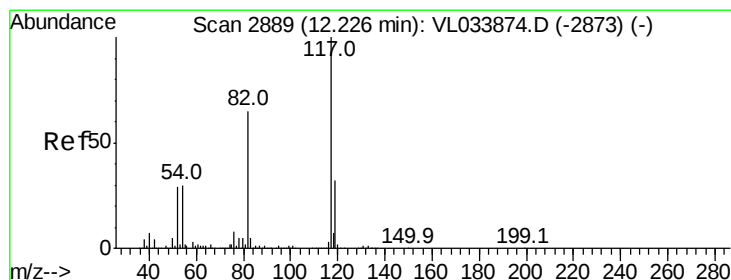
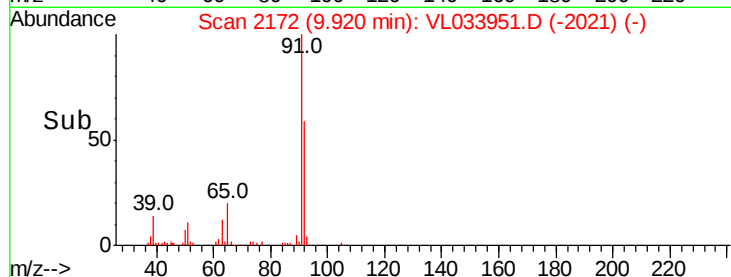
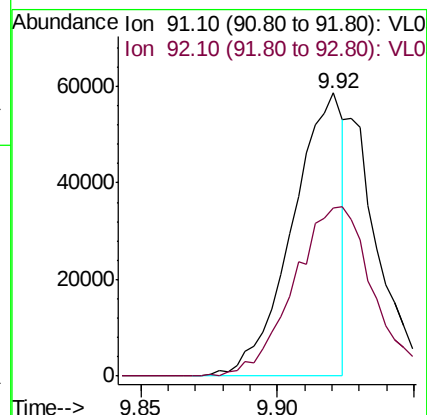
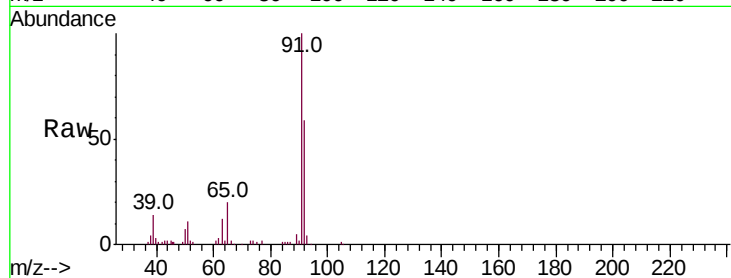
TZC-SSDS-AREA-C-2DL

Tot Ion: 91 Resp: 75536

Ion Ratio Lower Upper

91 100

92 0.0 47.0 70.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

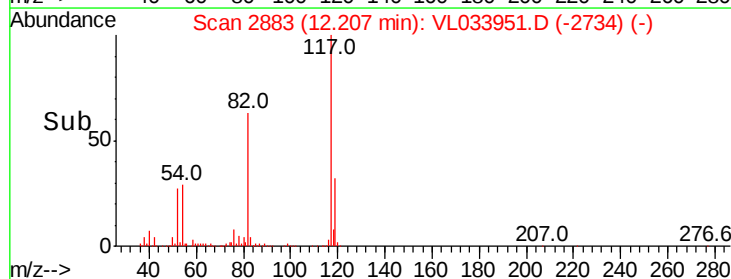
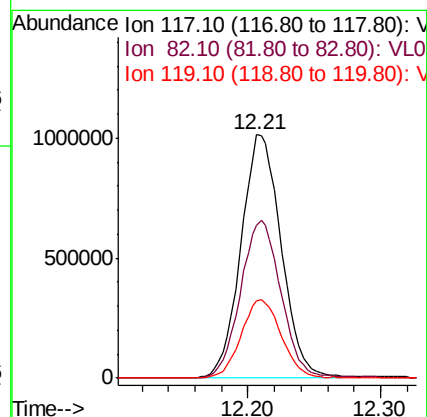
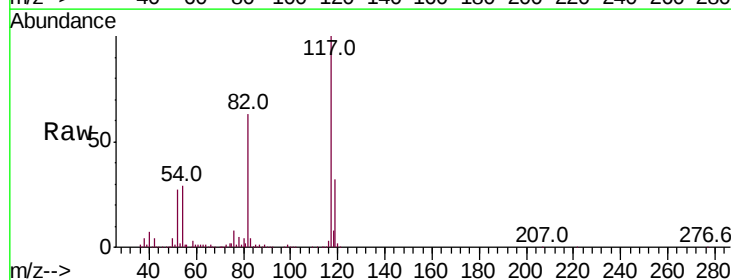
Tgt Ion: 117 Resp: 2137074

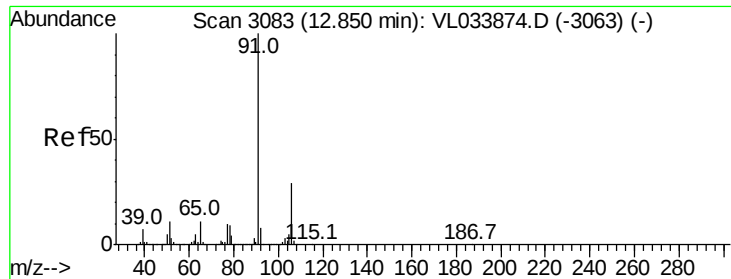
Ion Ratio Lower Upper

117 100

82 65.9 50.2 75.2

119 32.6 24.8 37.2





#58

Ethyl Benzene

Concen: 0.081 ppbv

RT: 12.83 min Scan# 3078

Delta R.T. -0.02 min

Lab File: VL033951.D

Acq: 25 Jun 2019 00:35

Instrument :

MSVOA_L

ClientSampleId :

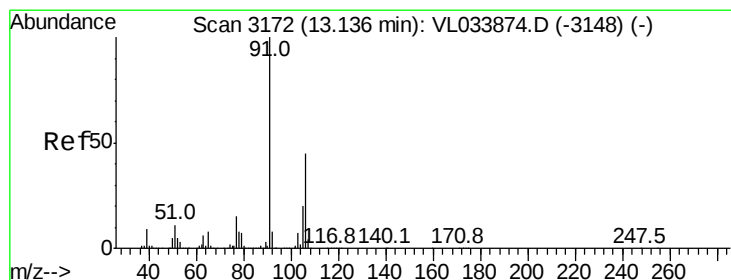
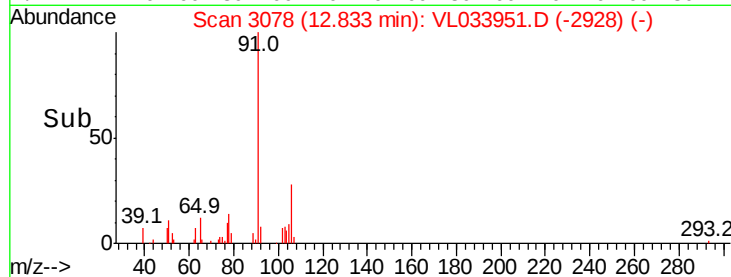
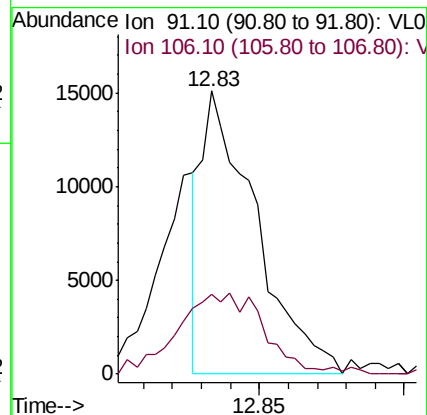
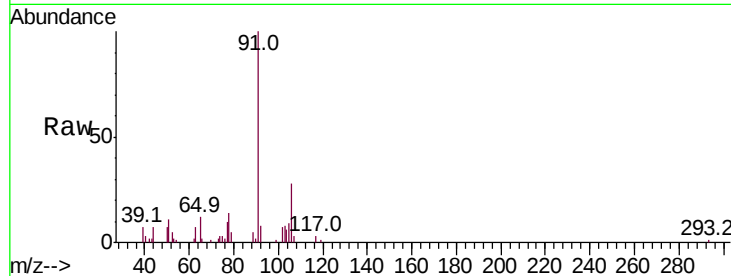
TZC-SSDS-AREA-C-2DL

Tot Ion: 91 Resp: 19603

Ion Ratio Lower Upper

91 100

106 27.1 23.0 34.6



#59

m/p-Xylene

Concen: 0.144 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL033951.D

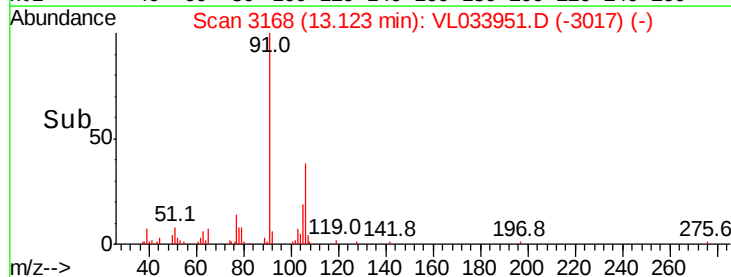
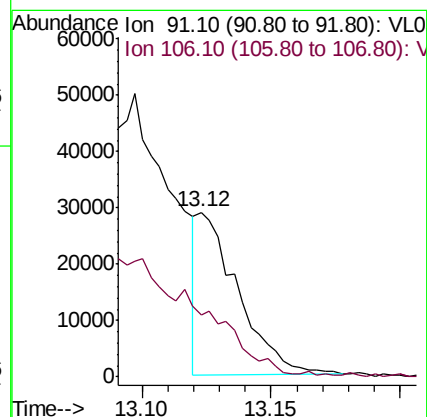
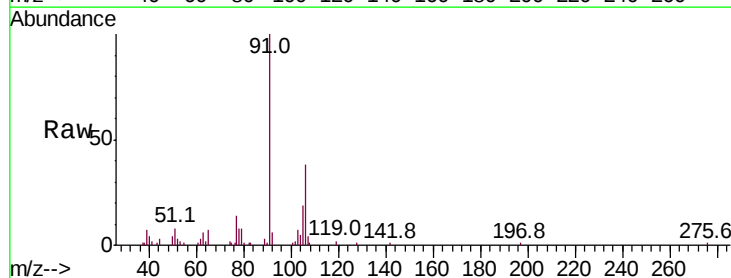
Acq: 25 Jun 2019 00:35

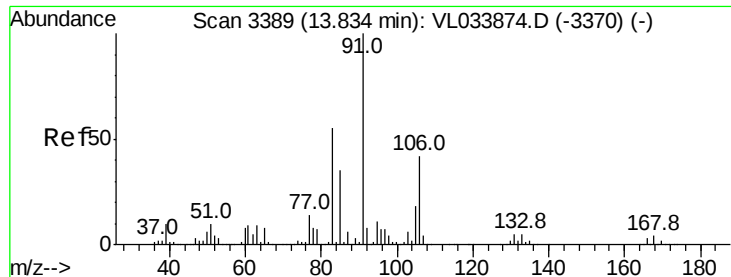
Tgt Ion: 91 Resp: 31500

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.8#

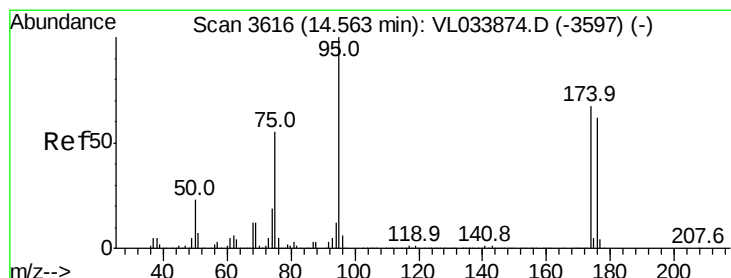
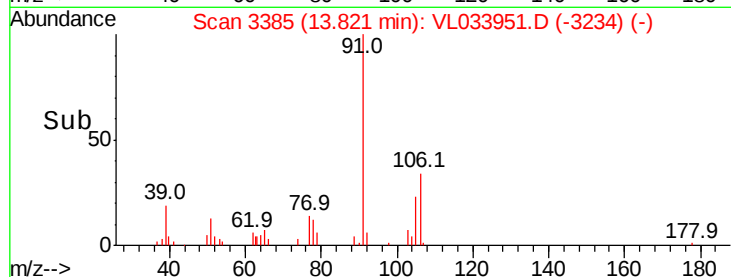
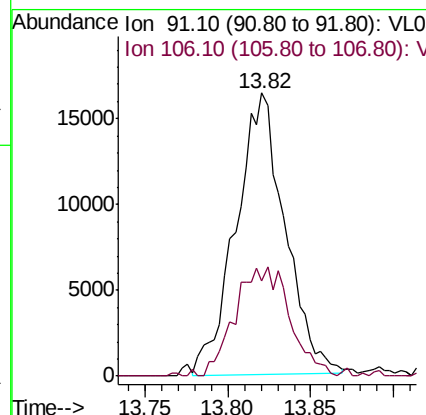
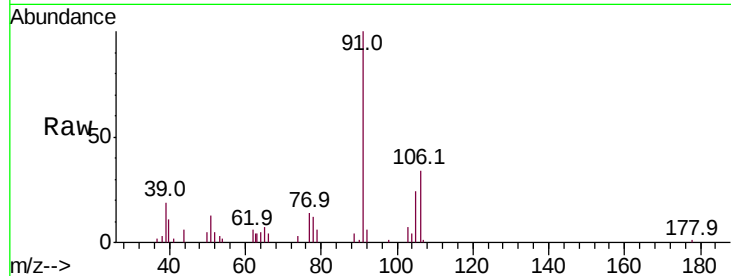




#60
o-Xylene
Concen: 0.150 ppbv
RT: 13.82 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL033951.D
Acq: 25 Jun 2019 00:35

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-C-2DL

Tot Ion: 91 Resp: 33893
Ion Ratio Lower Upper
91 100
106 44.3 21.7 65.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.916 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033951.D
Acq: 25 Jun 2019 00:35

Tgt Ion: 95 Resp: 1740545
Ion Ratio Lower Upper
95 100
174 68.4 54.0 81.0
175 4.8 3.8 5.8

