

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033936.D
 Acq On : 24 Jun 2019 14:37
 Operator : SY/AP
 Sample : K3481-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jun 25 03:38:16 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	957627	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2345308	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2543181	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.54	95	2076768	9.94	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%	

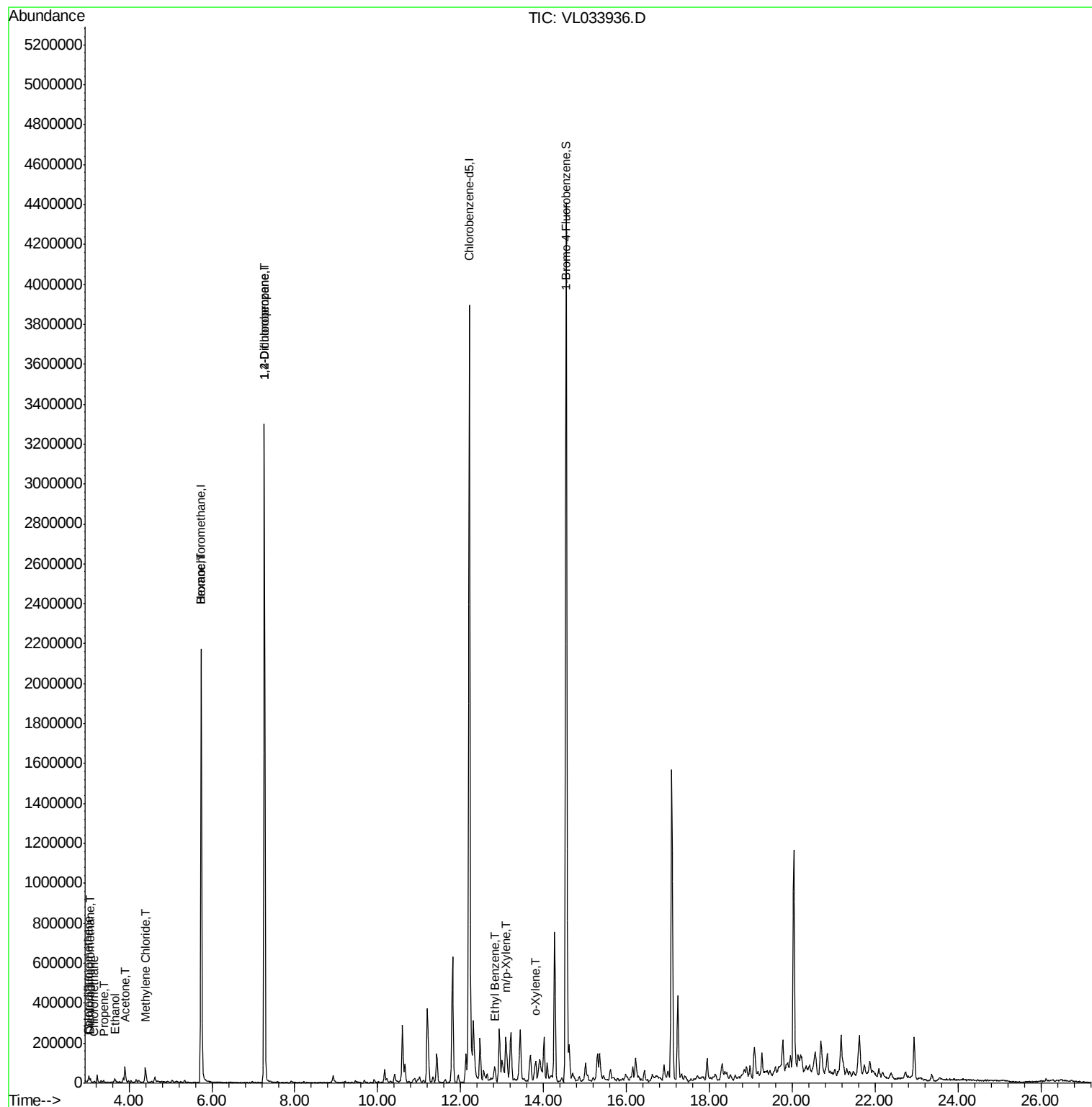
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	10660	0.069	ppbv	95
3) Chlorodifluoromethane	3.01	51	8657	0.077	ppbv #	83
4) Chloromethane	3.16	50	3315	0.052	ppbv #	83
9) Propene	3.38	41	1793	0.043	ppbv	97
13) Ethanol	3.66	45	13728	1.000	ppbv	97
15) Acetone	3.90	43	78005	0.559	ppbv	92
20) Methylene Chloride	4.39	84	11366	0.209	ppbv	88
26) Hexane	5.75	57	7202	0.074	ppbv #	1
39) 1,2-Dichloropropane	7.26	63	579494	8.381	ppbv #	25
58) Ethyl Benzene	12.83	91	20536	0.072	ppbv	94
59) m/p-Xylene	13.09	91	192319	0.738	ppbv	99
60) o-Xylene	13.82	91	63479	0.236	ppbv	100

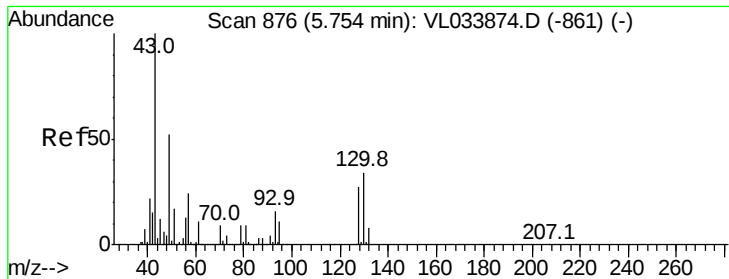
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062419\
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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: VL033936.D

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Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-2DL

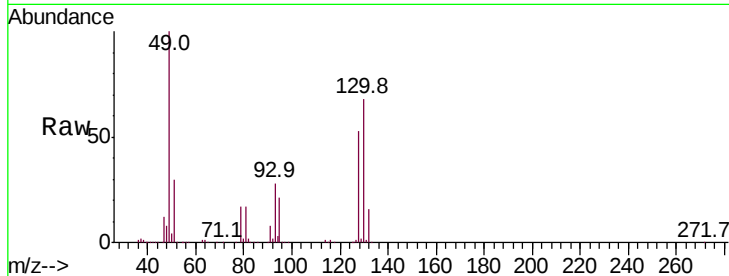
Tot Ion: 49 Resp: 957627

Ion Ratio Lower Upper

49 100

128 52.7 25.5 76.5

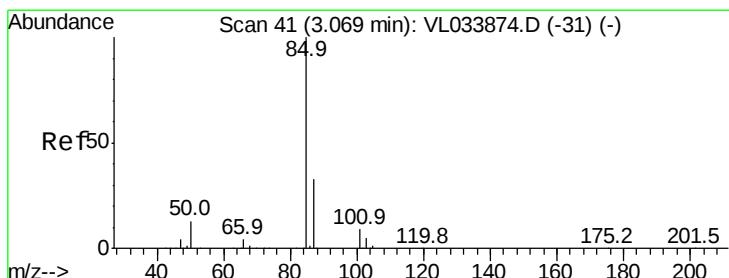
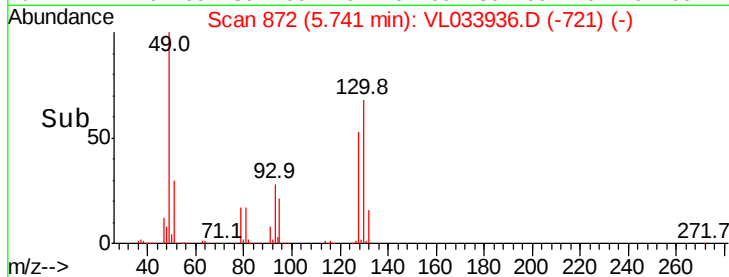
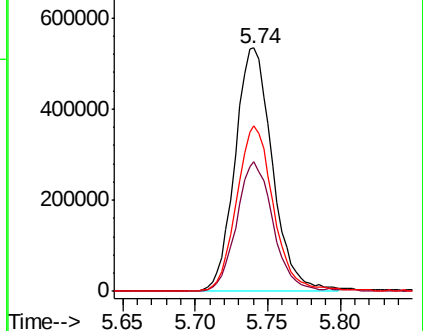
130 67.4 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.069 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033936.D

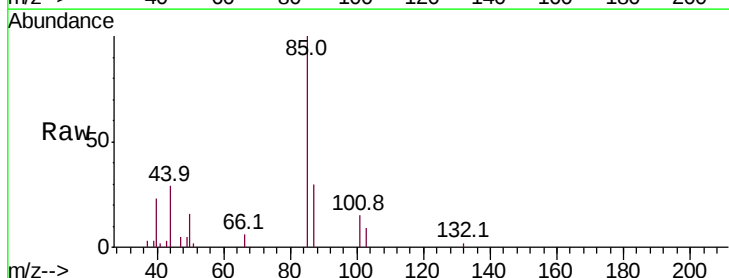
Acq: 24 Jun 2019 14:37

Tgt Ion: 85 Resp: 10660

Ion Ratio Lower Upper

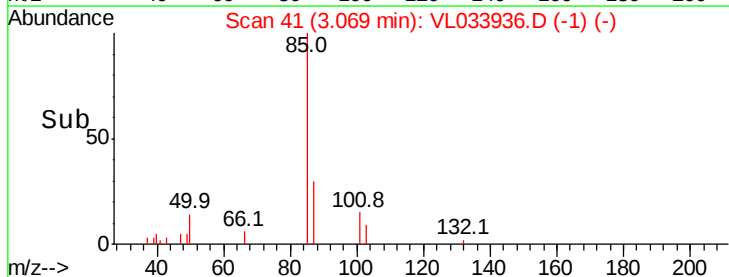
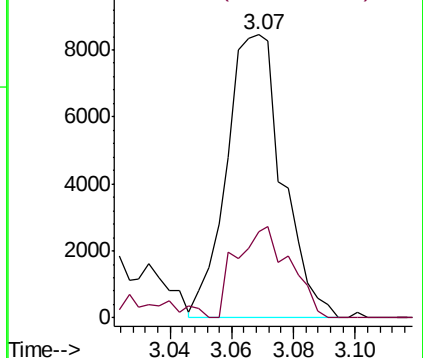
85 100

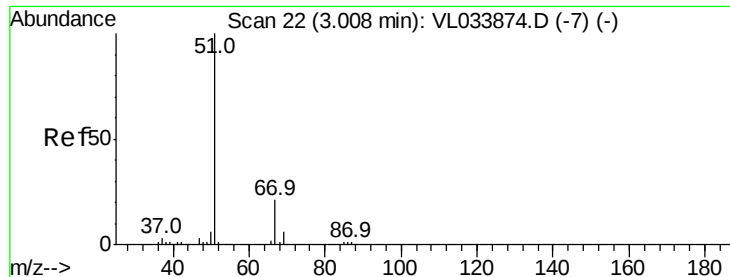
87 30.4 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.077 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

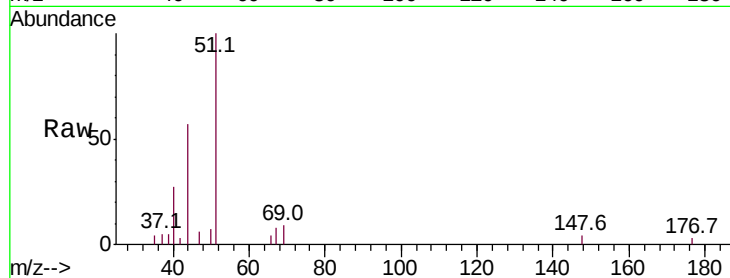
TZC-SSDS-AREA-A-2DL

Tot Ion: 51 Resp: 8657

Ion Ratio Lower Upper

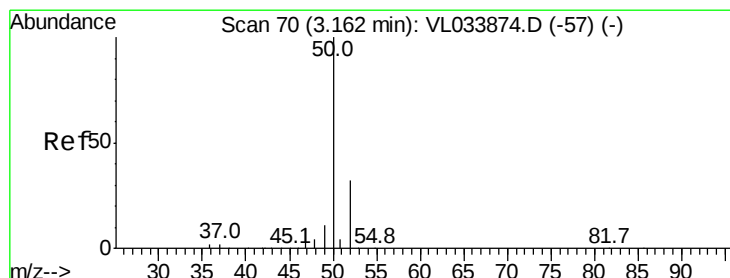
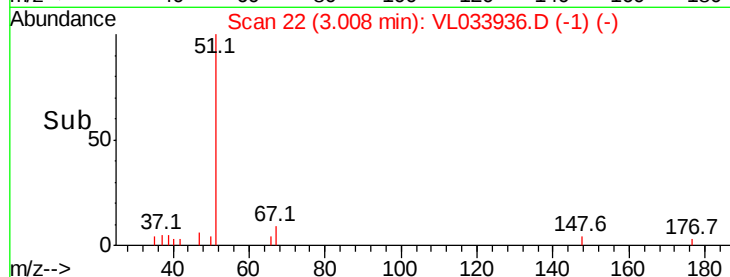
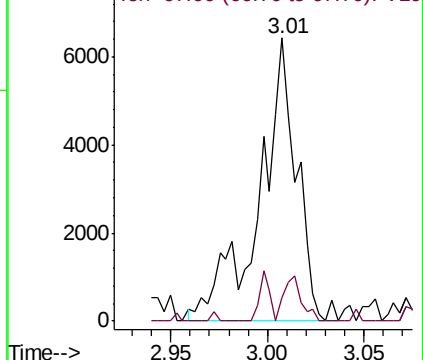
51 100

67 12.4 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: 0.052 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033936.D

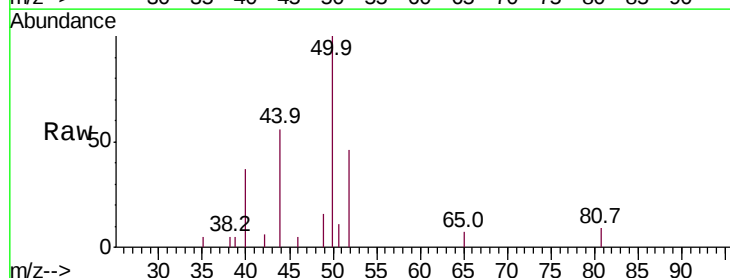
Acq: 24 Jun 2019 14:37

Tgt Ion: 50 Resp: 3315

Ion Ratio Lower Upper

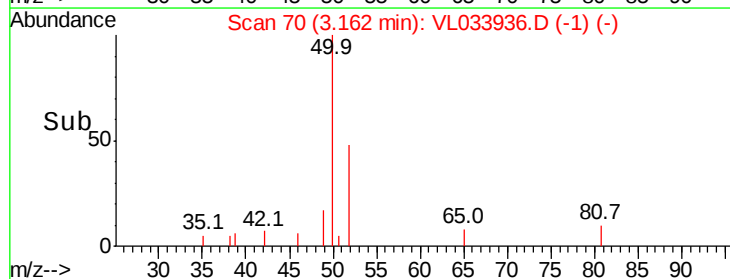
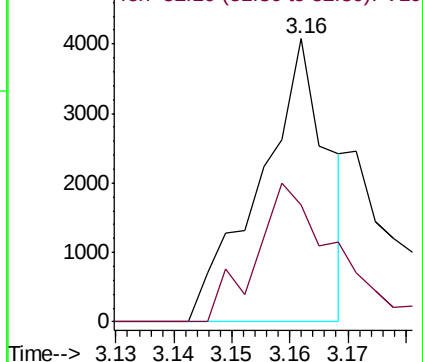
50 100

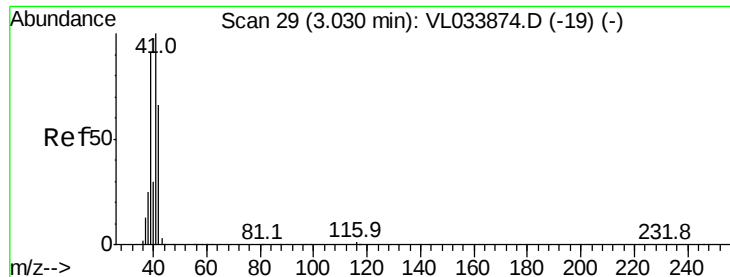
52 41.3 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.043 ppbv

RT: 3.38 min Scan# 139

Delta R.T. 0.35 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

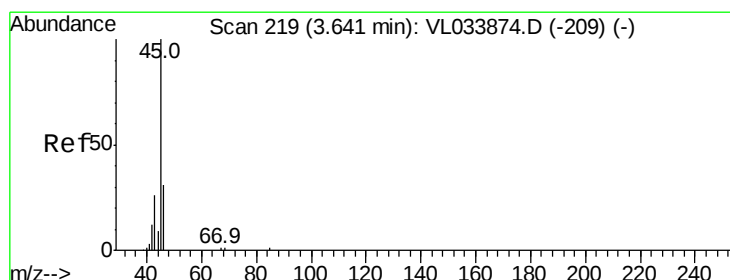
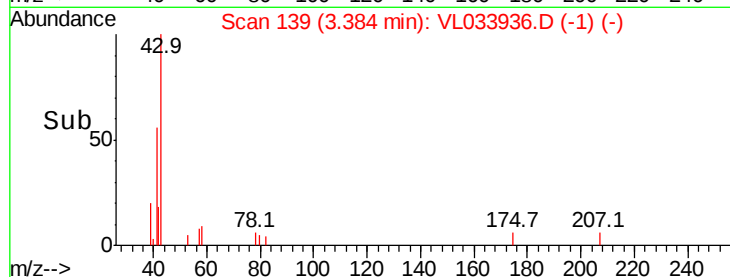
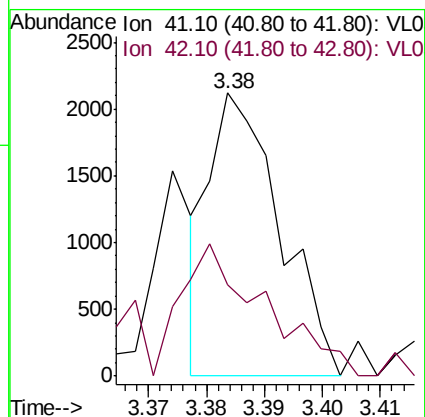
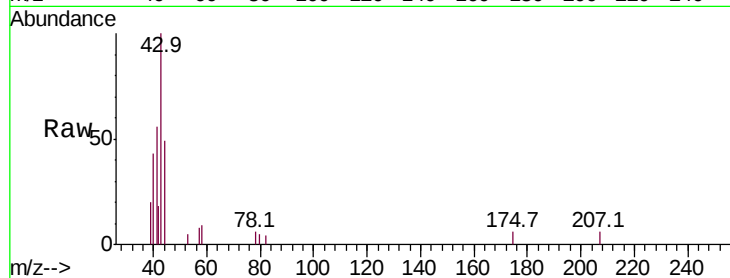
TZC-SSDS-AREA-A-2DL

Tot Ion: 41 Resp: 1793

Ion Ratio Lower Upper

41 100

42 73.2 56.3 84.5



#13

Ethanol

Concen: 1.000 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.02 min

Lab File: VL033936.D

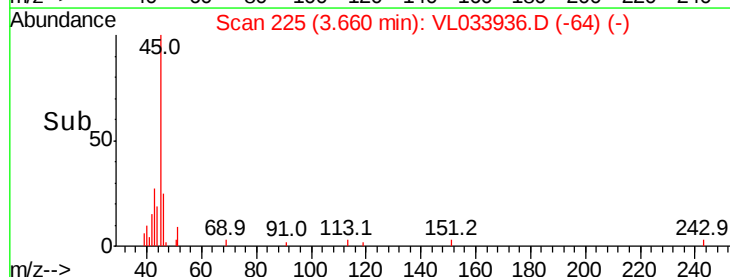
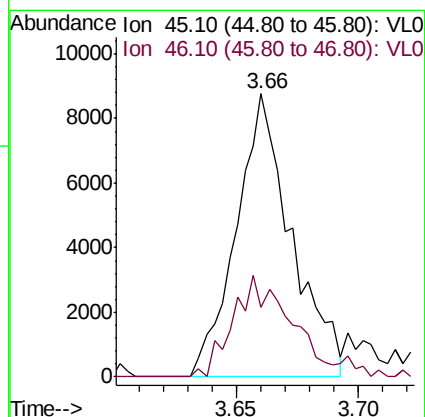
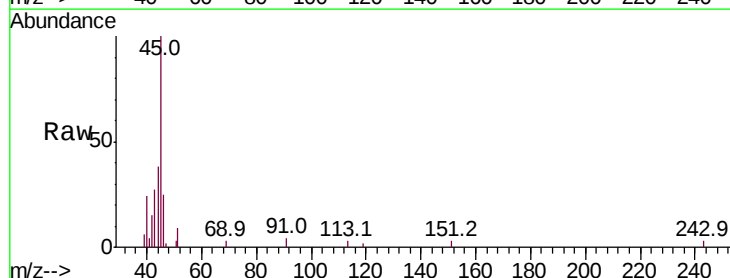
Acq: 24 Jun 2019 14:37

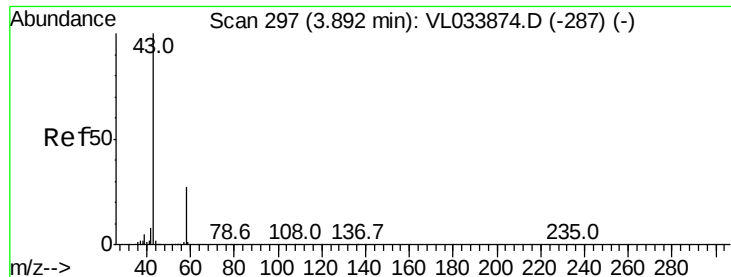
Tgt Ion: 45 Resp: 13728

Ion Ratio Lower Upper

45 100

46 39.8 15.3 61.1





#15

Acetone

Concen: 0.559 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

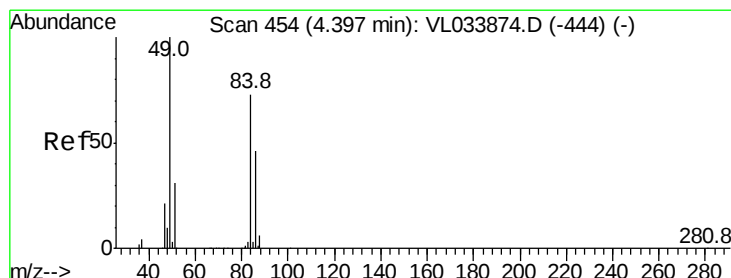
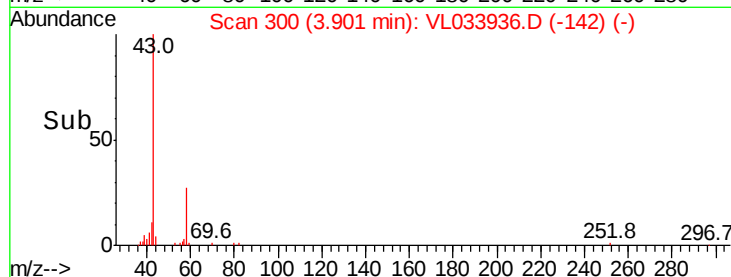
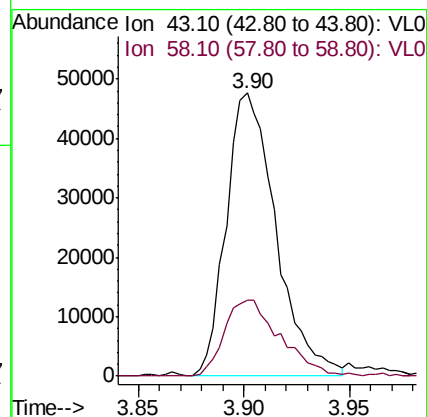
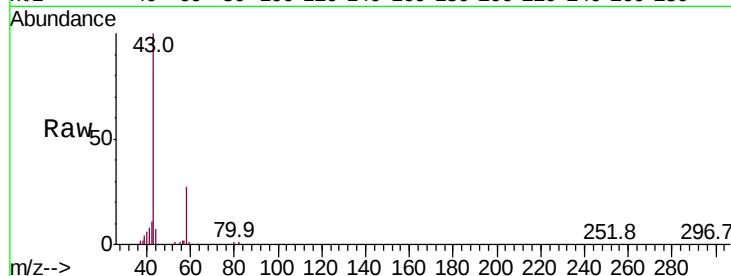
TZC-SSDS-AREA-A-2DL

Tot Ion: 43 Resp: 78005

Ion Ratio Lower Upper

43 100

58 30.6 21.3 31.9



#20

Methylene Chloride

Concen: 0.209 ppbv

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Tgt Ion: 84 Resp: 11366

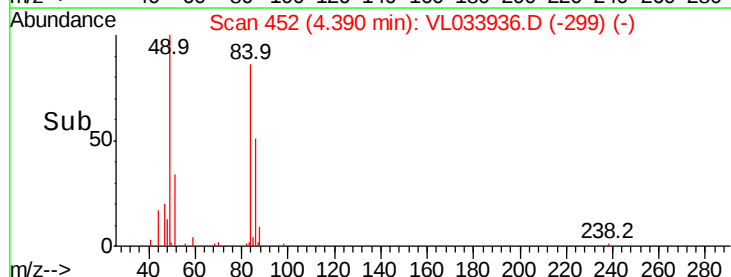
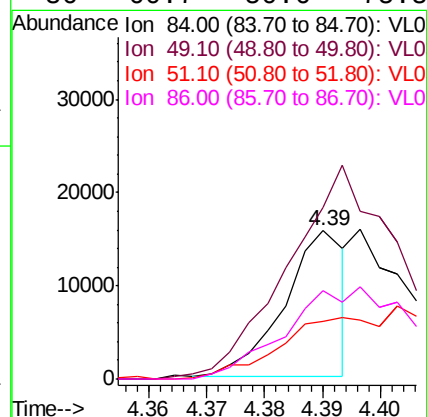
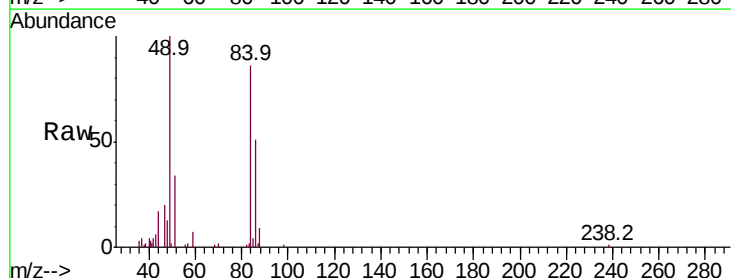
Ion Ratio Lower Upper

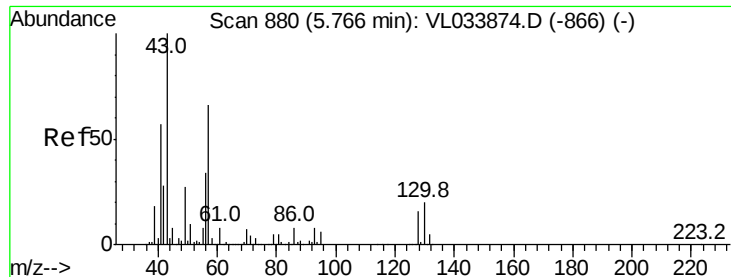
84 100

49 117.2 110.0 165.0

51 38.7 34.6 51.8

86 60.7 50.6 75.8

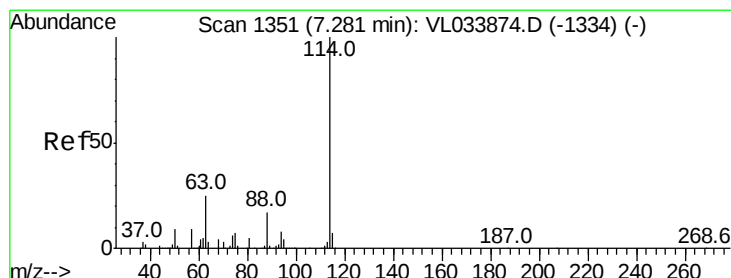
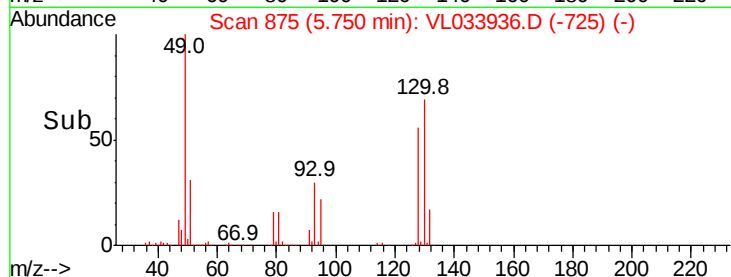
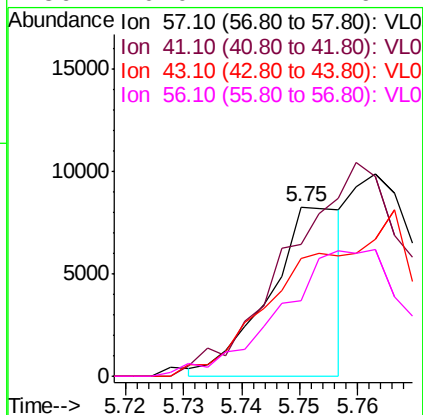
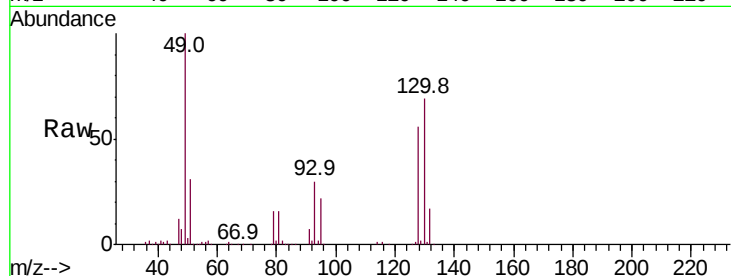




#26
Hexane
Concen: 0.074 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.02 min
Lab File: VL033936.D
Acq: 24 Jun 2019 14:37

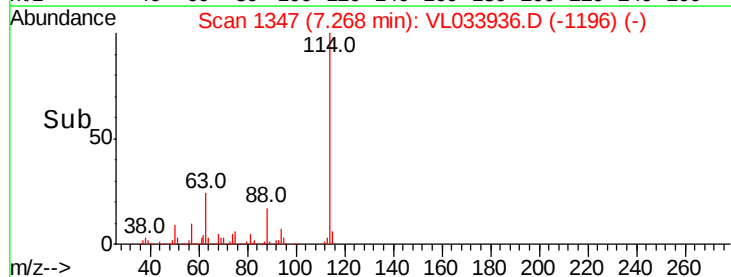
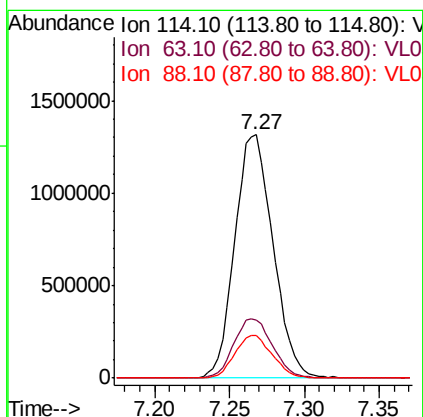
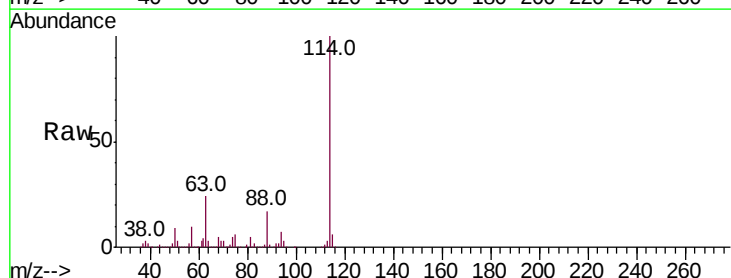
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-A-2DL

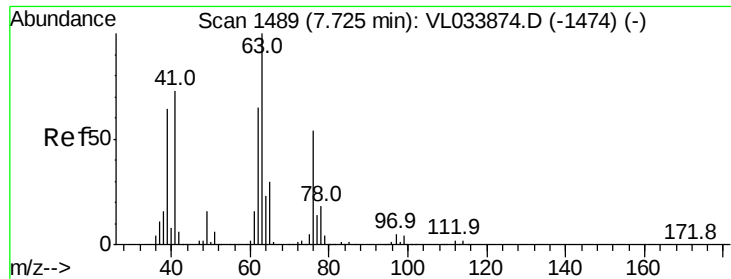
Tot Ion: 57 Resp: 7202
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 0.0 183.7 275.5#
56 0.0 42.7 64.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL033936.D
Acq: 24 Jun 2019 14:37

Tgt Ion: 114 Resp: 2345308
Ion Ratio Lower Upper
114 100
63 24.8 21.1 31.7
88 17.4 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.381 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. -0.46 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-A-2DL

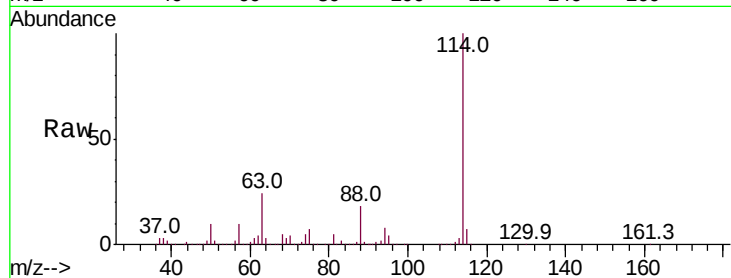
Tot Ion: 63 Resp: 579494

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

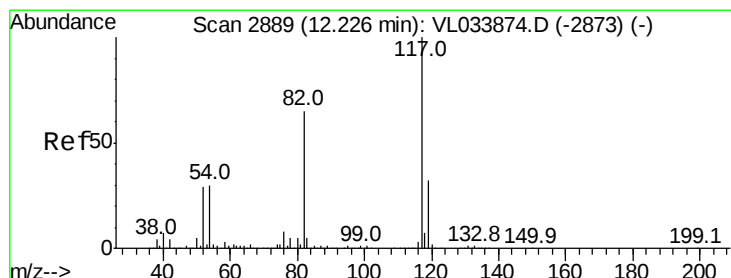
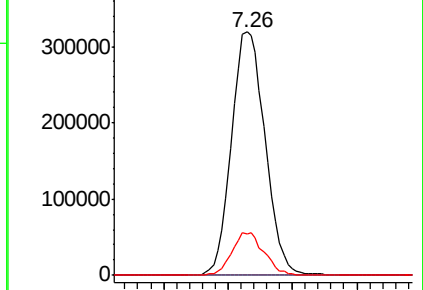
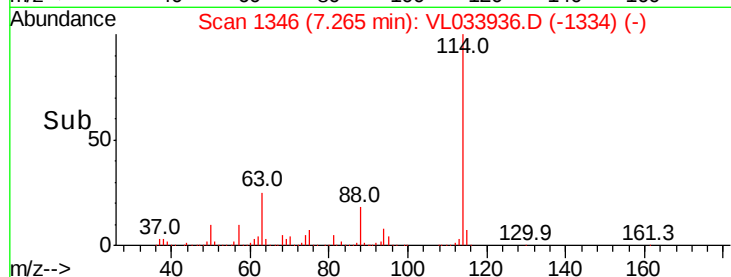
62 16.9 51.9 77.9#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

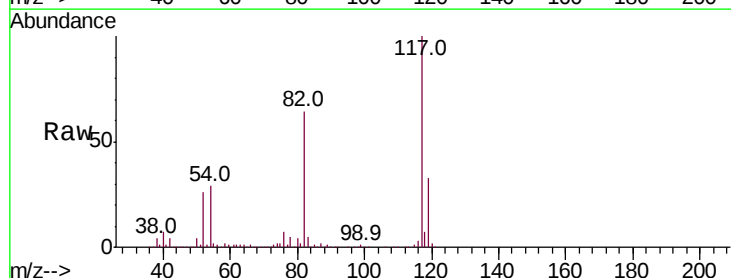
Tgt Ion: 117 Resp: 2543181

Ion Ratio Lower Upper

117 100

82 63.9 50.2 75.2

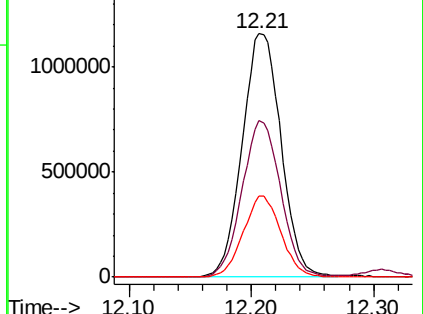
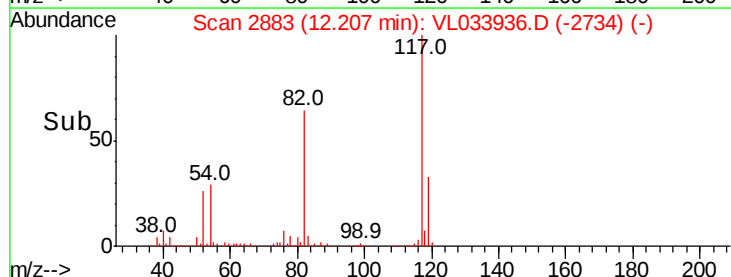
119 32.5 24.8 37.2

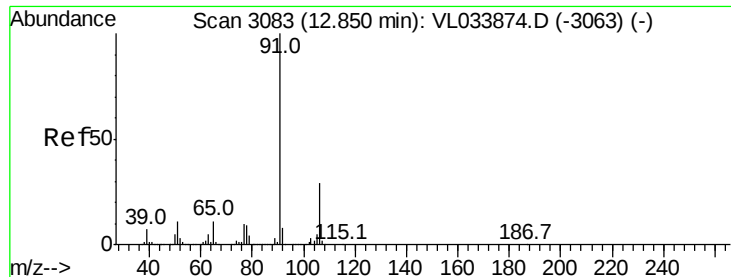


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.072 ppbv

RT: 12.83 min Scan# 3077

Delta R.T. -0.02 min

Lab File: VL033936.D

Acq: 24 Jun 2019 14:37

Instrument :

MSVOA_L

ClientSampleId :

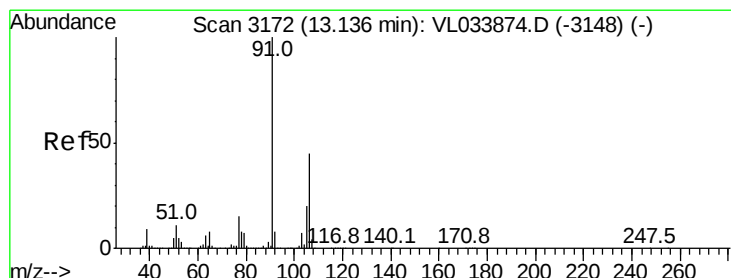
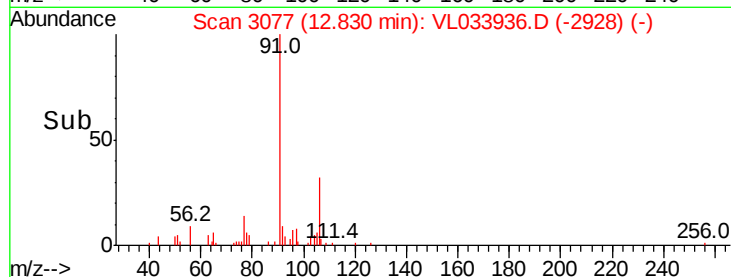
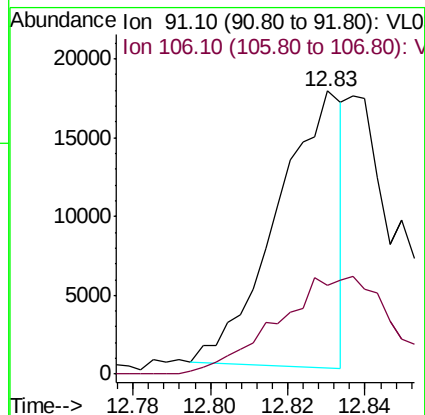
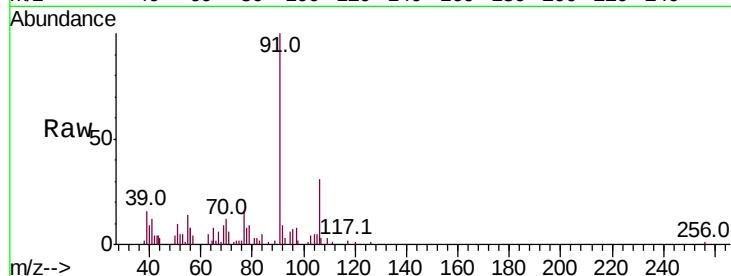
TZC-SSDS-AREA-A-2DL

Tot Ion: 91 Resp: 20536

Ion Ratio Lower Upper

91 100

106 31.9 23.0 34.6



#59

m/p-Xylene

Concen: 0.738 ppbv

RT: 13.09 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL033936.D

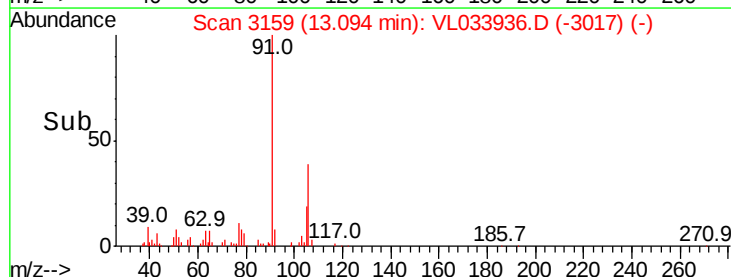
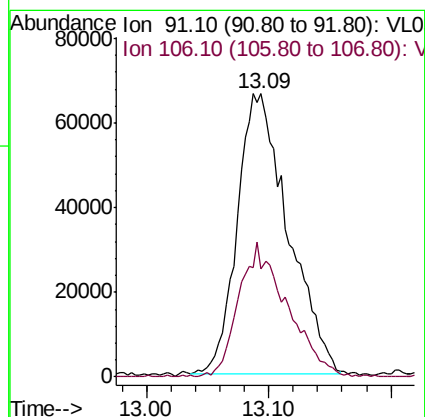
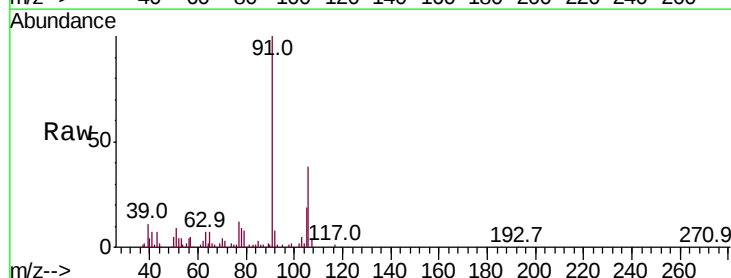
Acq: 24 Jun 2019 14:37

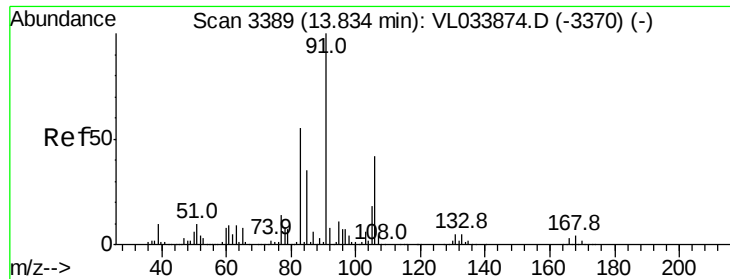
Tgt Ion: 91 Resp: 192319

Ion Ratio Lower Upper

91 100

106 45.5 35.8 53.8

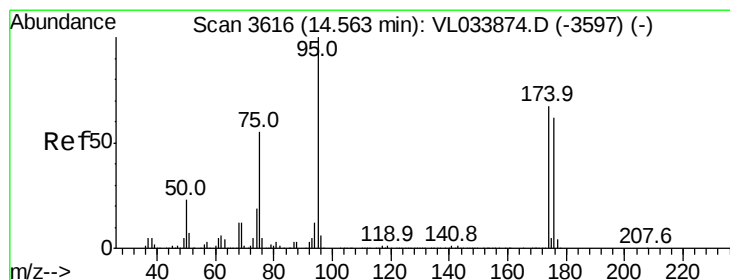
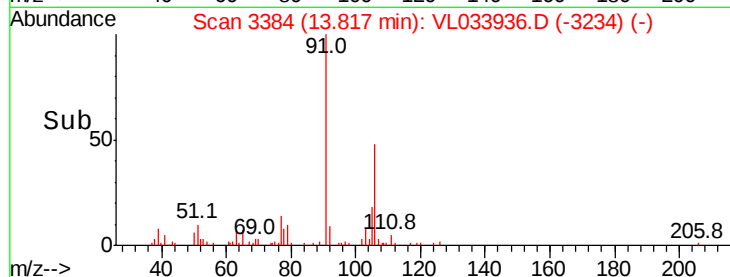
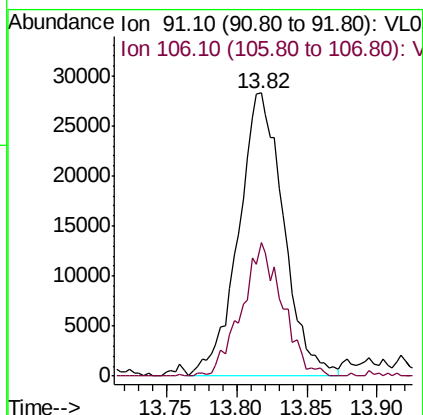
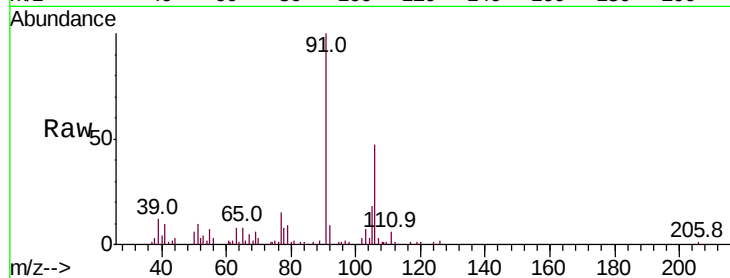




#60
o-Xylene
Concen: 0.236 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL033936.D
Acq: 24 Jun 2019 14:37

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

Tot Ion: 91 Resp: 63479
Ion Ratio Lower Upper
91 100
106 43.2 21.7 65.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033936.D
Acq: 24 Jun 2019 14:37

Tgt Ion: 95 Resp: 2076768
Ion Ratio Lower Upper
95 100
174 69.2 54.0 81.0
175 5.0 3.8 5.8

