

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033645.D
 Acq On : 3 May 2019 2:22
 Operator : SY/AP
 Sample : K2628-10DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: May 03 03:49:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	905627	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2118073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2234326	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1807608	10.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

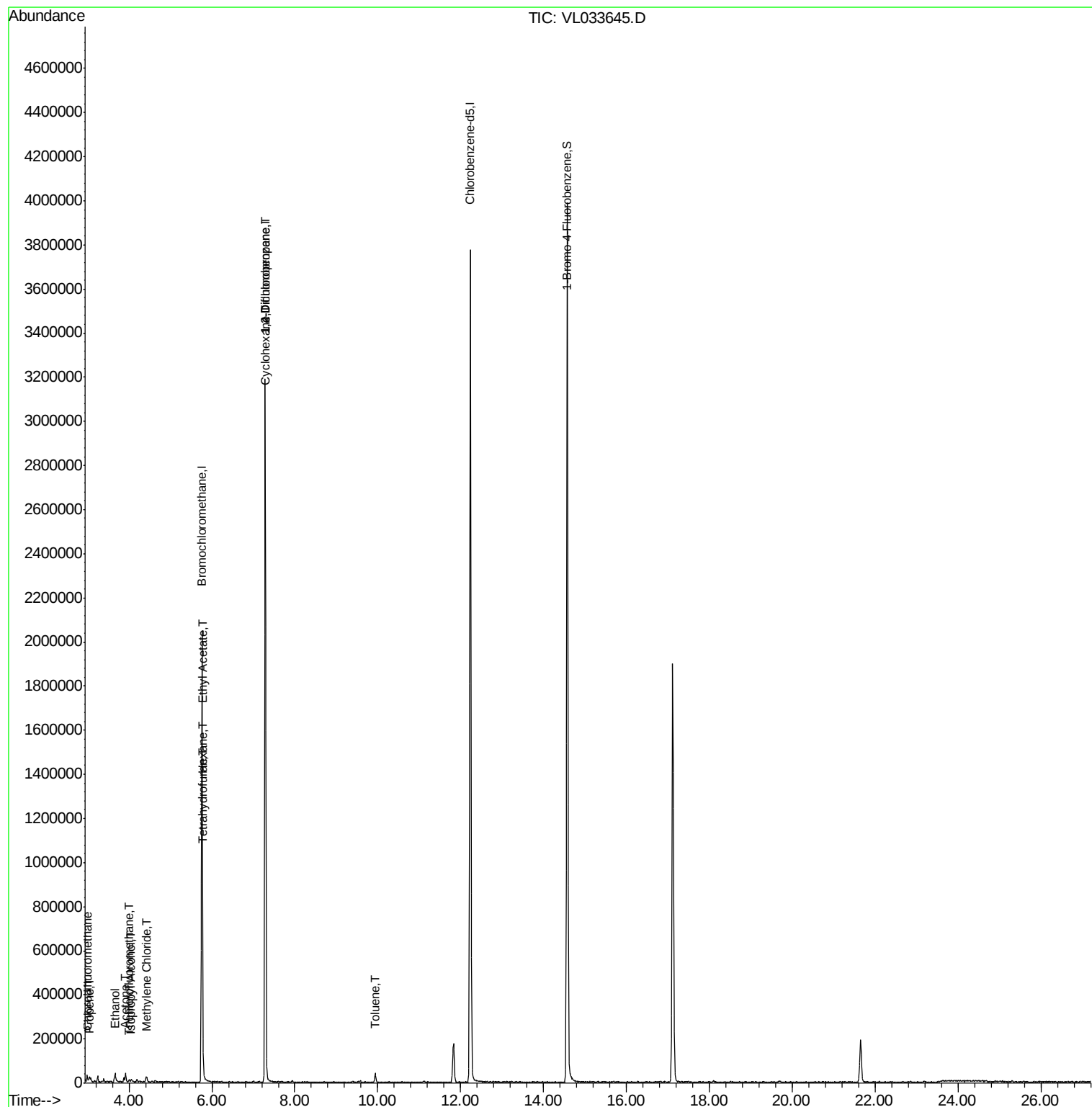
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	20945	0.193	ppbv #	70
9) Propene	3.02	41	327	0.011	ppbv #	8
11) Trichlorofluoromethane	4.00	101	5179	0.032	ppbv	89
13) Ethanol	3.66	45	35902	2.554	ppbv	96
15) Acetone	3.91	43	36780	0.334	ppbv	97
19) Isopropyl Alcohol	4.05	45	5526	0.073	ppbv #	81
20) Methylene Chloride	4.41	84	6394	0.149	ppbv #	81
25) Ethyl Acetate	5.78	43	3972	0.019	ppbv #	86
26) Hexane	5.78	57	2156	0.024	ppbv #	35
30) Cyclohexane	7.27	84	4320	0.058	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	560781	8.240	ppbv #	24
41) Tetrahydrofuran	5.78	42	1470	0.021	ppbv #	47
53) Toluene	9.94	91	12779	0.056	ppbv #	21

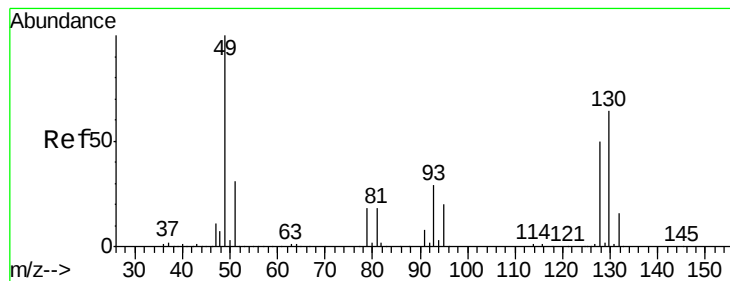
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

BFB

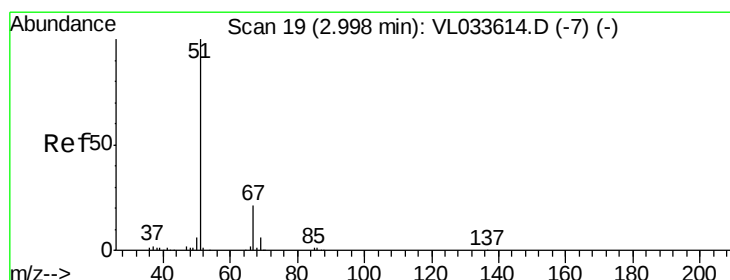
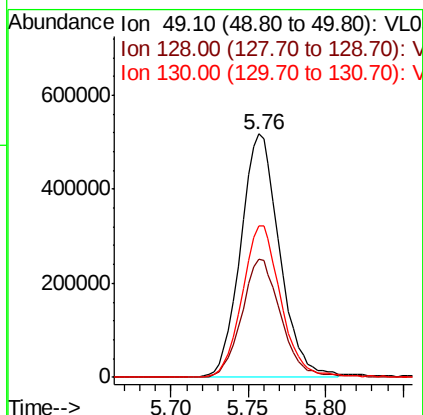
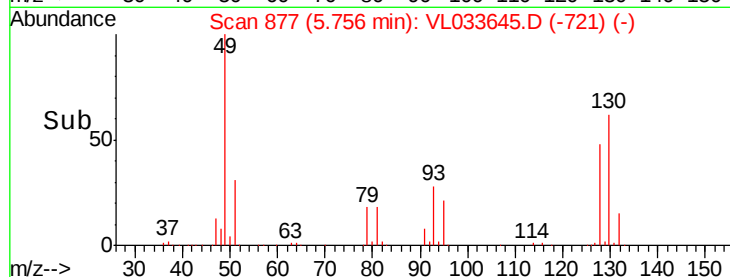
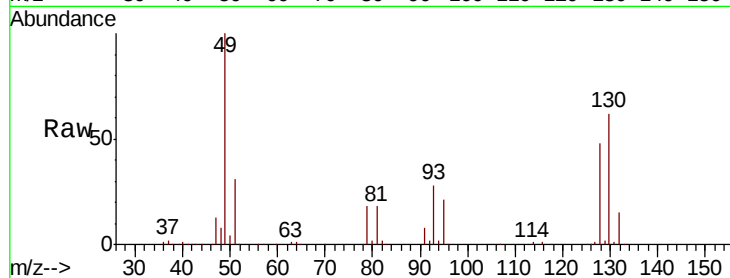
Tgt Ion: 49 Resp: 905627

Ion Ratio Lower Upper

49 100

128 49.0 25.0 75.0

130 62.7 31.9 95.9



#3

Chlorodifluoromethane

Concen: 0.193 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.01 min

Lab File: VL033645.D

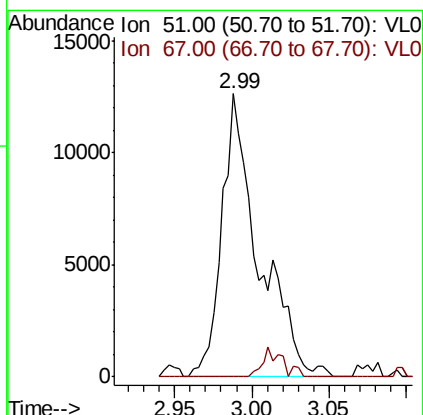
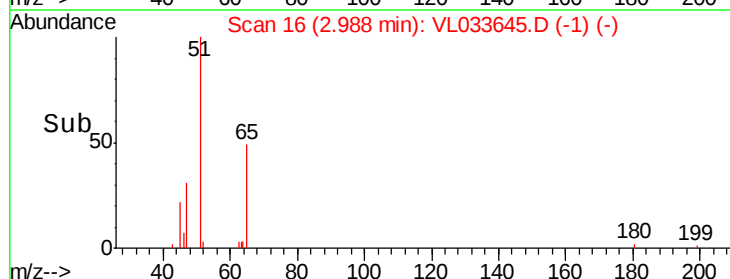
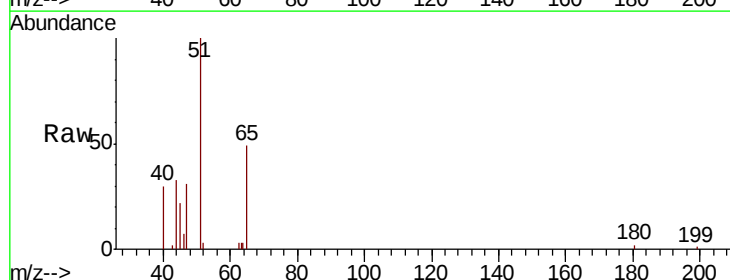
Acq: 3 May 2019 2:22

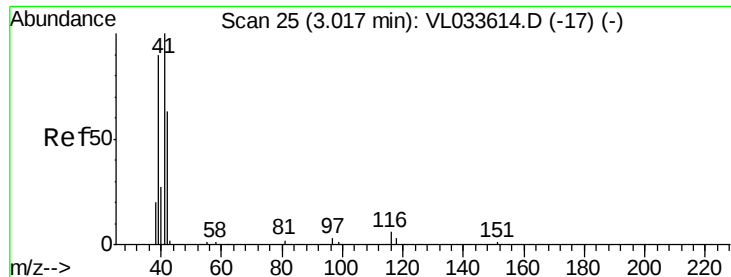
Tgt Ion: 51 Resp: 20945

Ion Ratio Lower Upper

51 100

67 5.7 15.6 23.4#





#9

Propene

Concen: 0.011 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.01 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

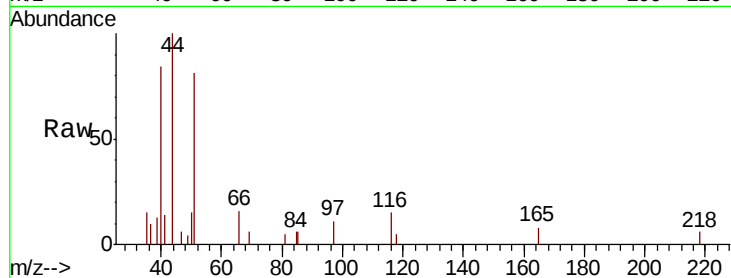
BFB

Tgt Ion: 41 Resp: 327

Ion Ratio Lower Upper

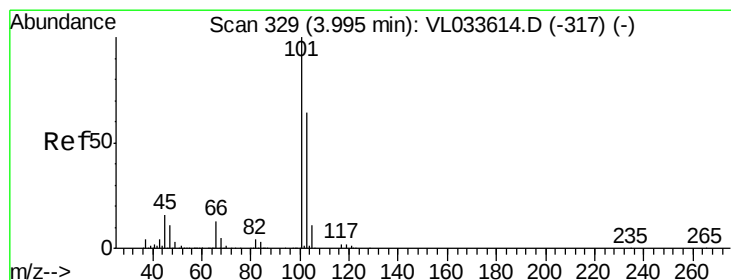
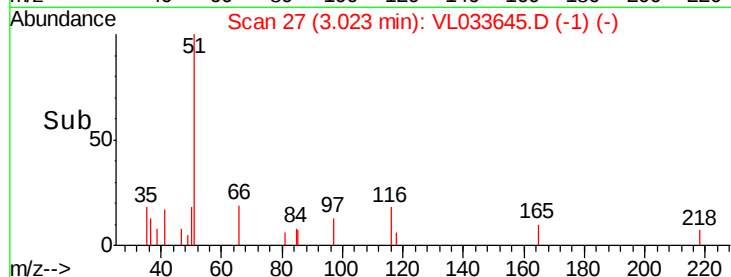
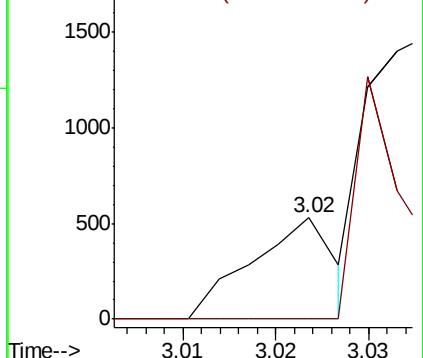
41 100

42 0.0 66.0 99.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL033645.D

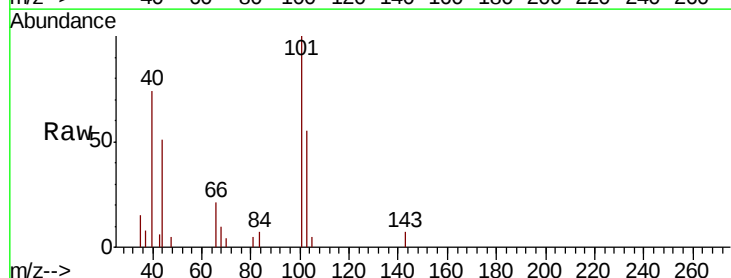
Acq: 3 May 2019 2:22

Tgt Ion: 101 Resp: 5179

Ion Ratio Lower Upper

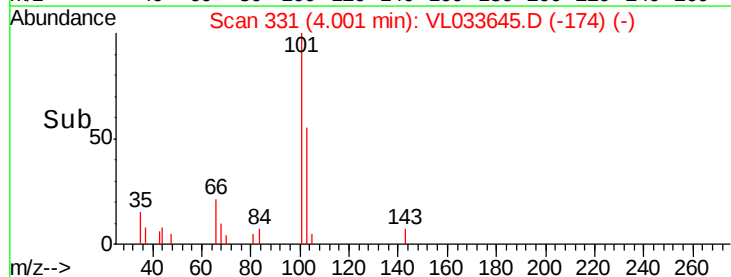
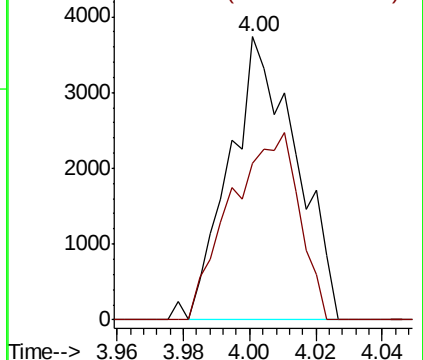
101 100

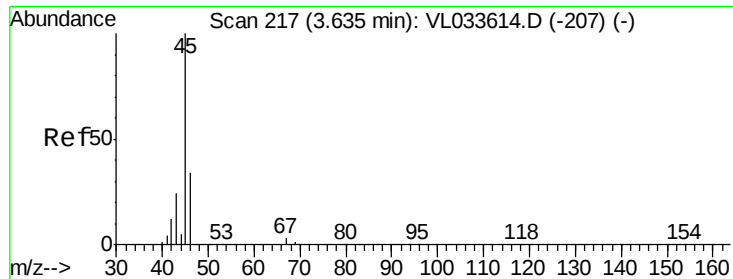
103 55.4 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 2.554 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.03 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

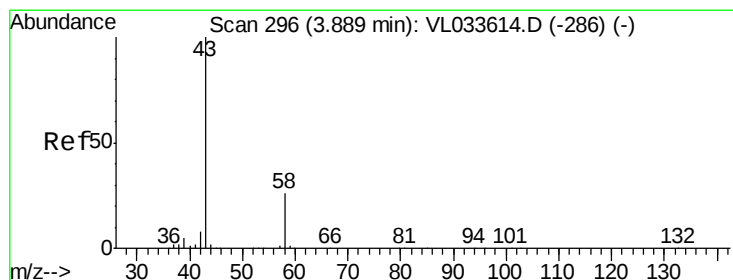
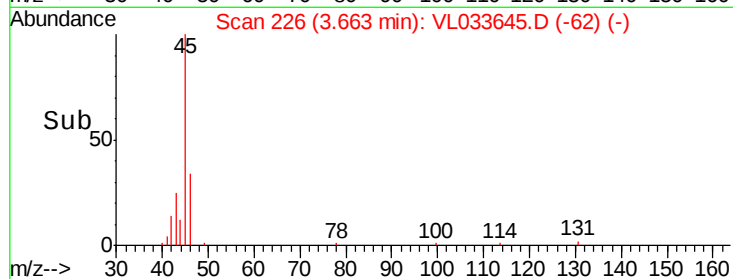
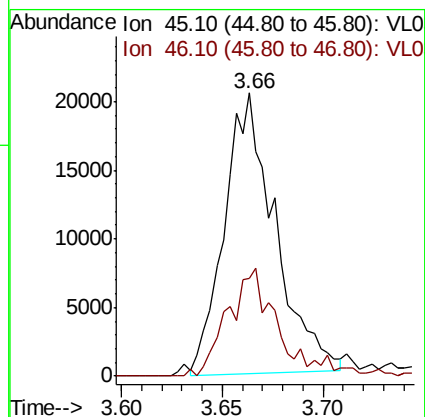
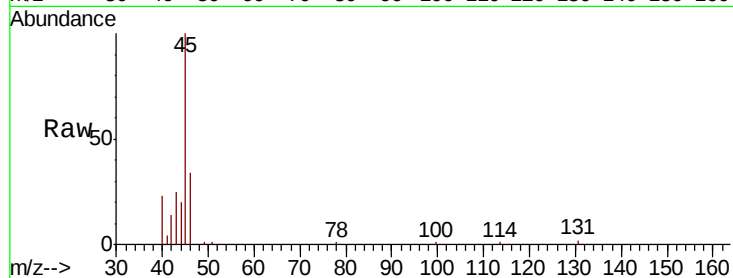
BFB

Tgt Ion: 45 Resp: 35902

Ion Ratio Lower Upper

45 100

46 39.0 14.6 58.2



#15

Acetone

Concen: 0.334 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.02 min

Lab File: VL033645.D

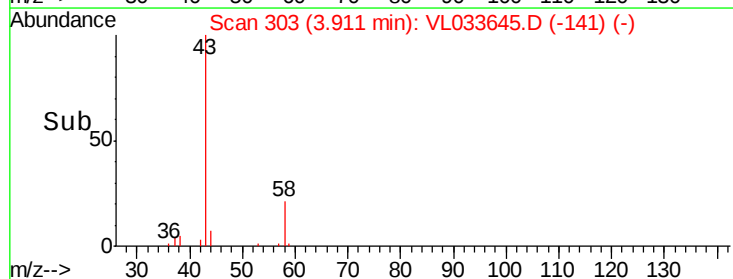
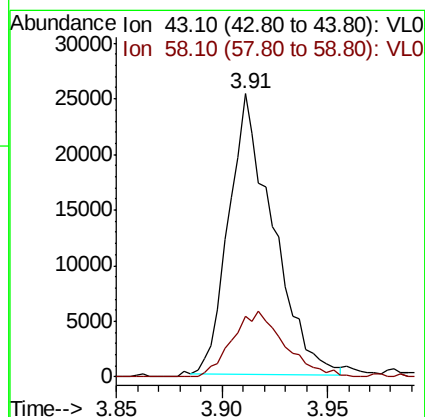
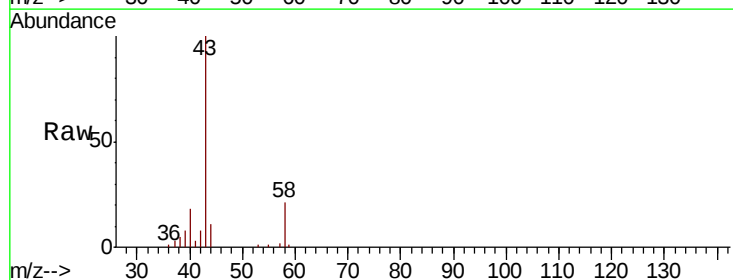
Acq: 3 May 2019 2:22

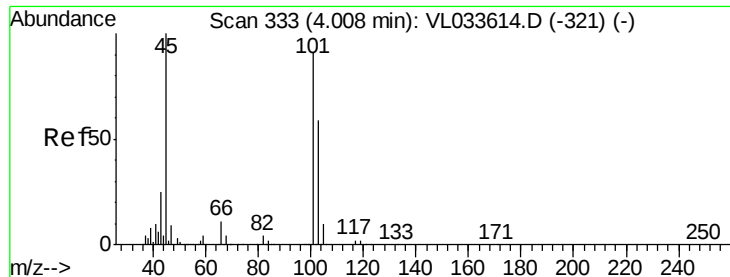
Tgt Ion: 43 Resp: 36780

Ion Ratio Lower Upper

43 100

58 28.0 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.073 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.04 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

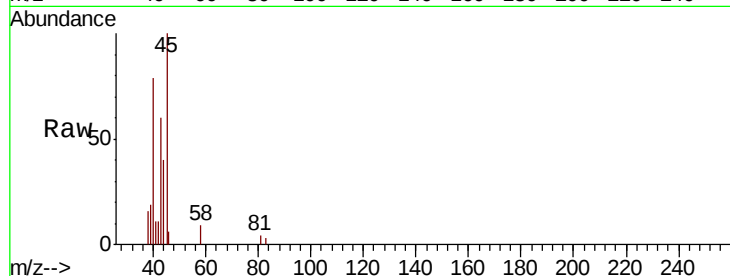
BFB

Tgt Ion: 45 Resp: 5526

Ion Ratio Lower Upper

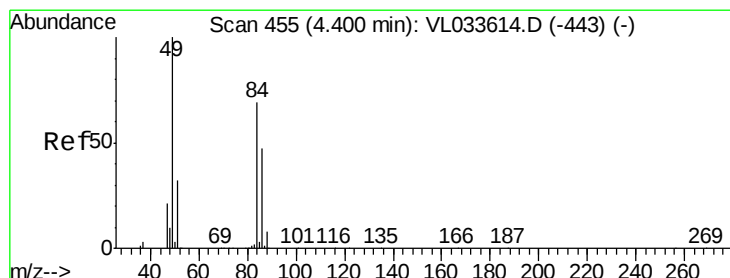
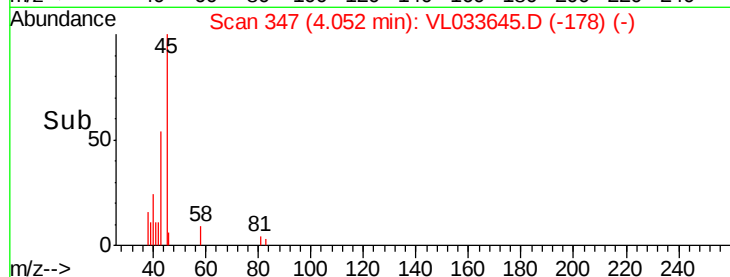
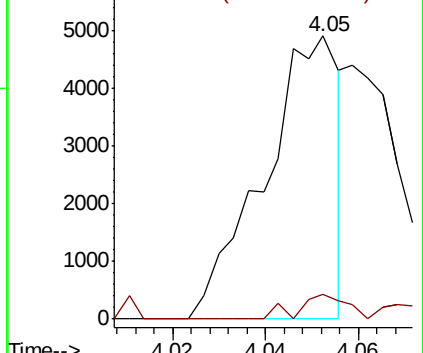
45 100

58 8.7 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: 0.149 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Tgt Ion: 84 Resp: 6394

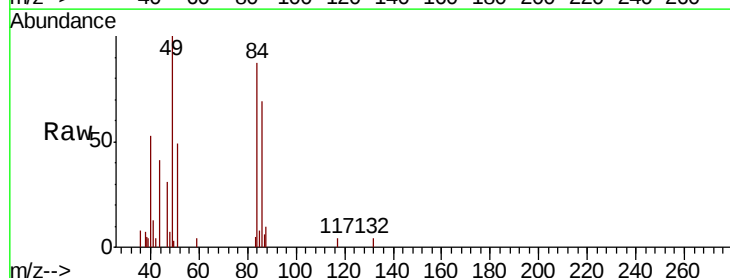
Ion Ratio Lower Upper

84 100

49 109.4 116.2 174.2#

51 51.4 37.0 55.6

86 73.6 54.0 81.0

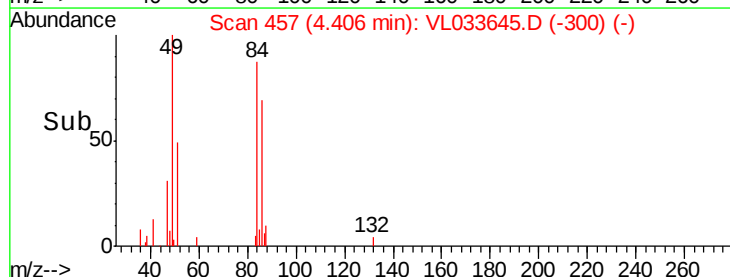
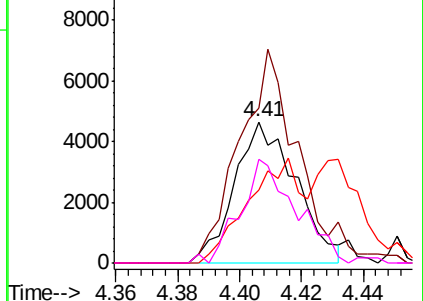


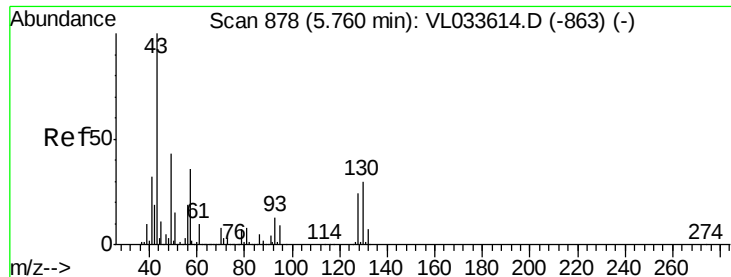
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

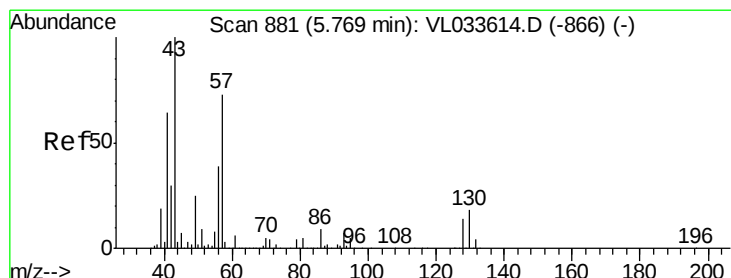
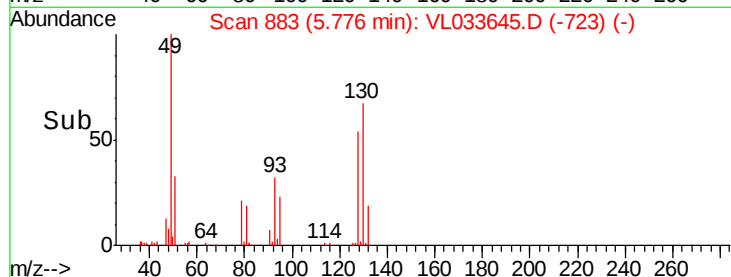
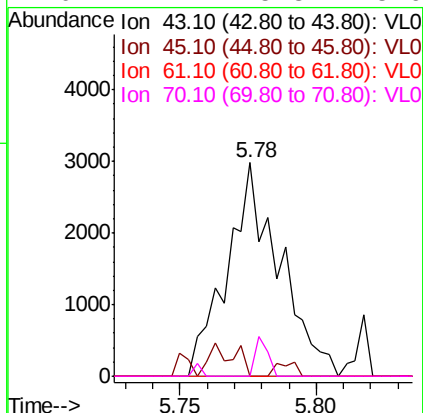
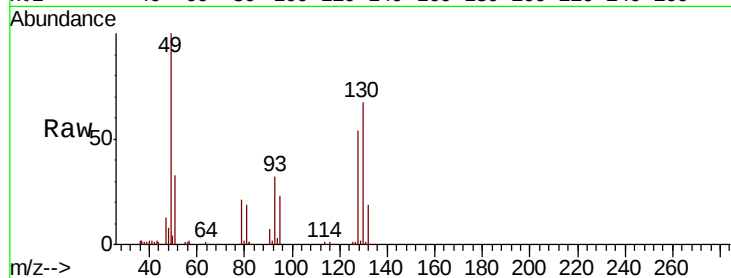




#25
Ethyl Acetate
Concen: 0.019 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.02 min
Lab File: VL033645.D
Acq: 3 May 2019 2:22

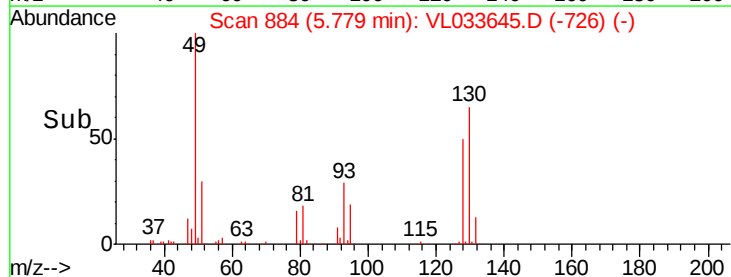
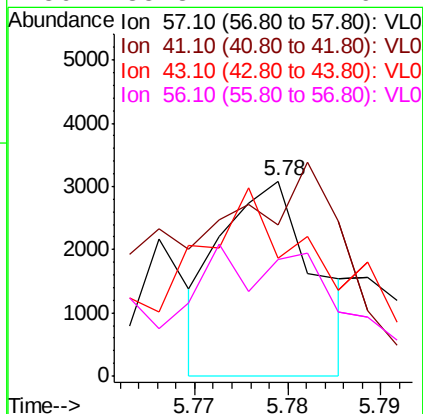
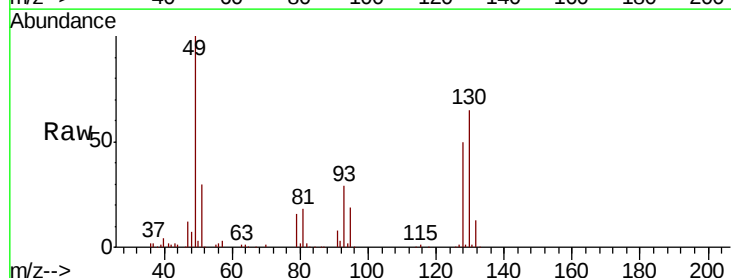
Instrument :
MSVOA_L
ClientSampleId :
BFB

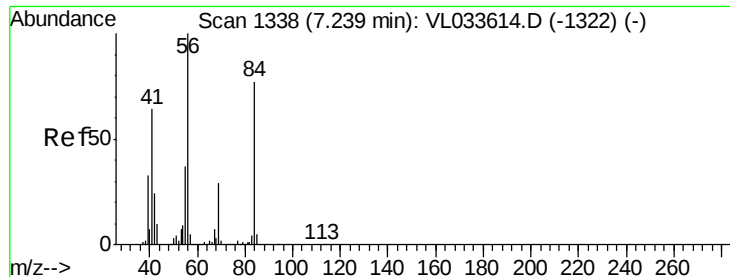
Tgt Ion:	43	Resp:	3972
Ion	Ratio	Lower	Upper
43	100		
45	12.8	8.1	12.1#
61	0.0	7.5	11.3#
70	4.4	5.8	8.6#



#26
Hexane
Concen: 0.024 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033645.D
Acq: 3 May 2019 2:22

Tgt Ion:	57	Resp:	2156
Ion	Ratio	Lower	Upper
57	100		
41	227.0	70.6	106.0#
43	195.5	186.0	279.0
56	135.3	42.7	64.1#

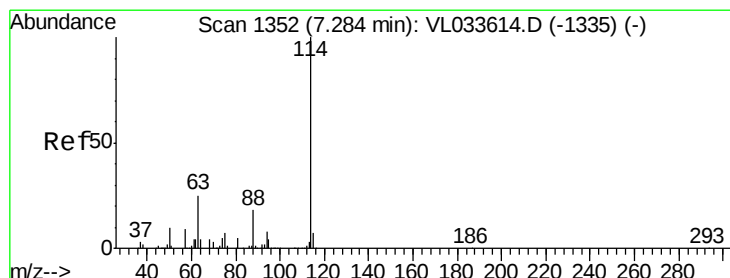
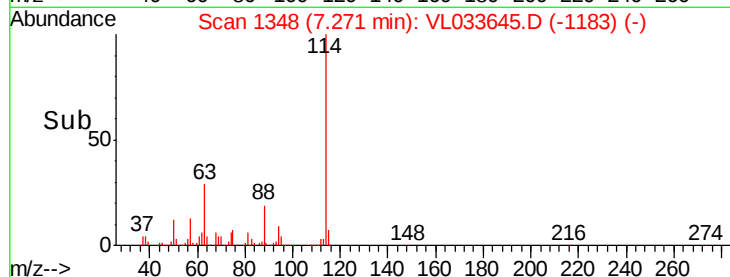
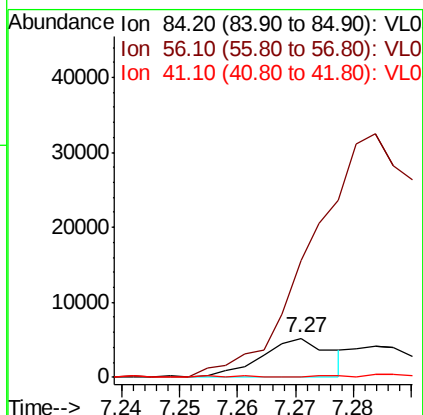
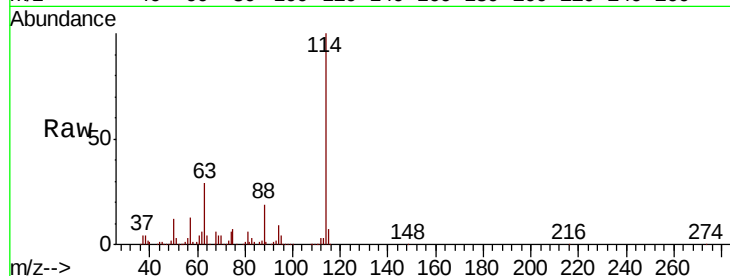




#30
Cyclohexane
Concen: 0.058 ppbv
RT: 7.27 min Scan# 1348
Delta R.T. 0.03 min
Lab File: VL033645.D
Acq: 3 May 2019 2:22

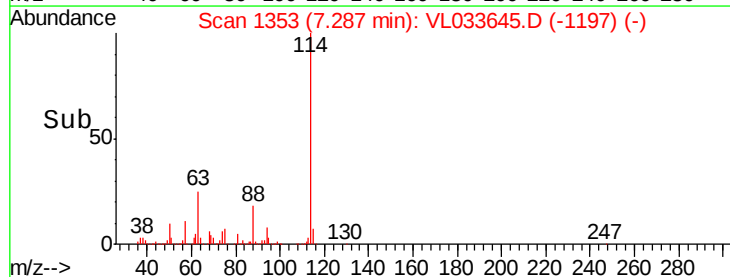
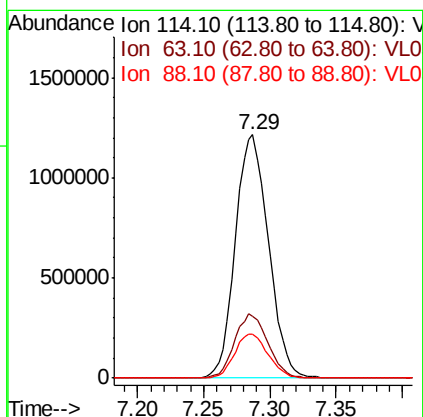
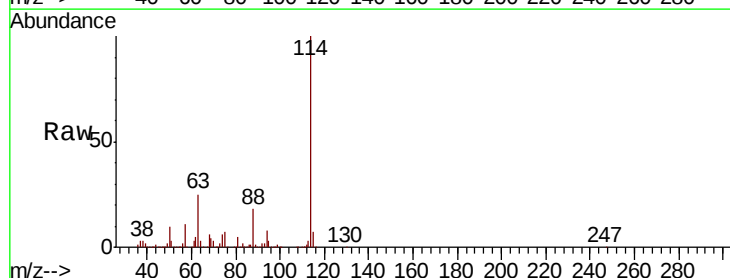
Instrument :
MSVOA_L
ClientSampleId :
BFB

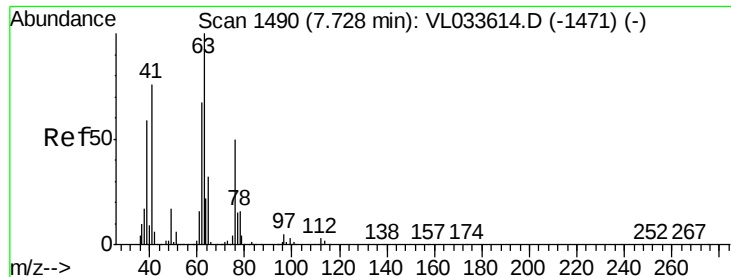
Tgt Ion: 84 Resp: 4320
Ion Ratio Lower Upper
84 100
56 0.0 108.4 162.6#
41 0.0 67.0 100.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033645.D
Acq: 3 May 2019 2:22

Tgt Ion: 114 Resp: 2118073
Ion Ratio Lower Upper
114 100
63 26.7 21.1 31.7
88 18.1 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.240 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.44 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

BFB

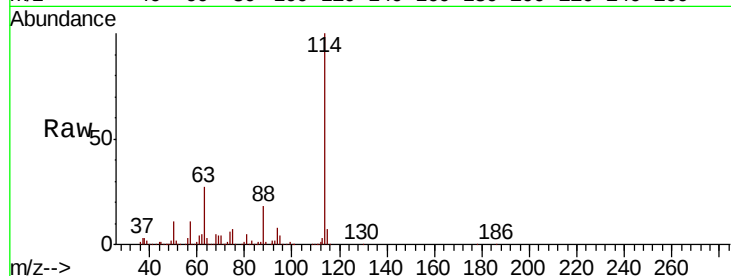
Tgt Ion: 63 Resp: 560781

Ion Ratio Lower Upper

63 100

41 0.1 60.9 91.3#

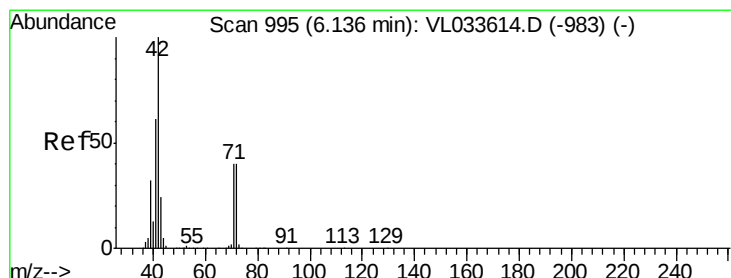
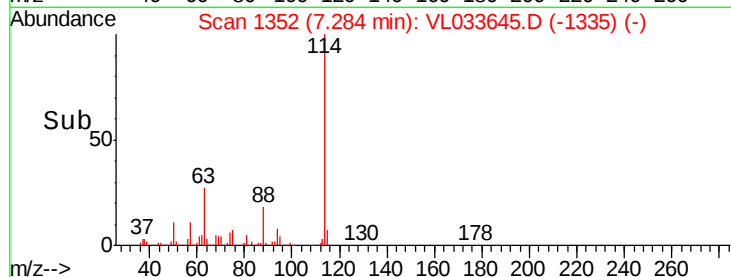
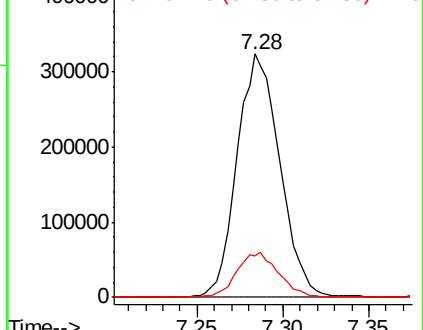
62 16.9 53.3 79.9#



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



#41

Tetrahydrofuran

Concen: 0.021 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.35 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

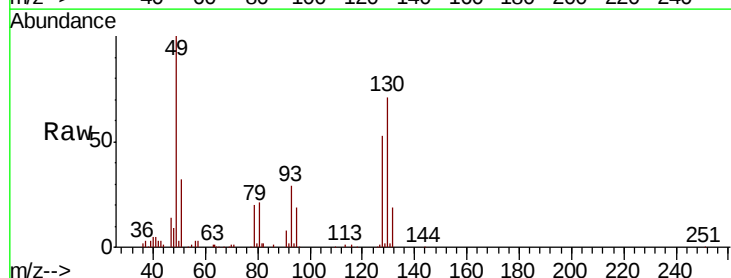
Tgt Ion: 42 Resp: 1470

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.6#

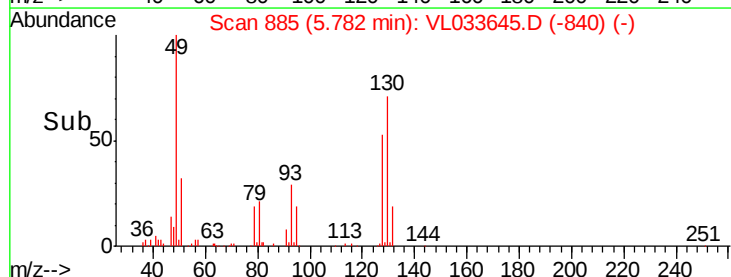
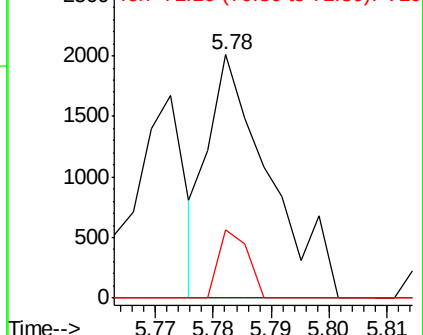
71 13.3 31.0 46.4#

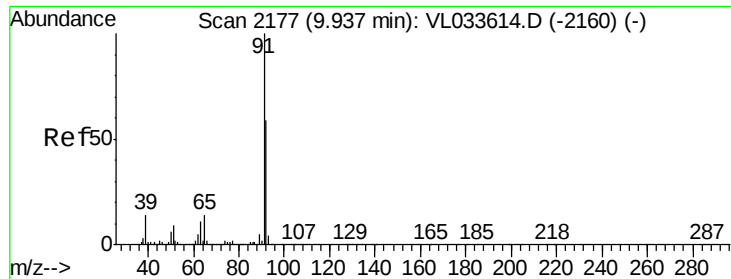


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.056 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.00 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampled :

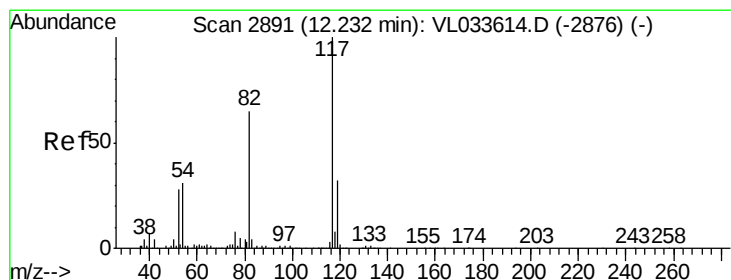
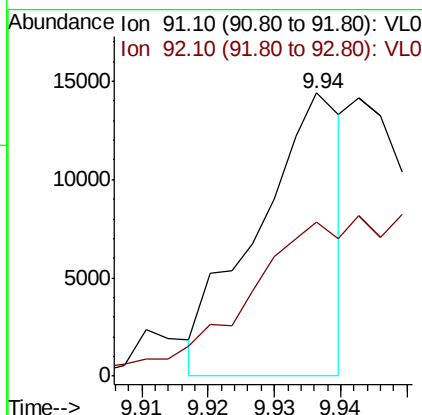
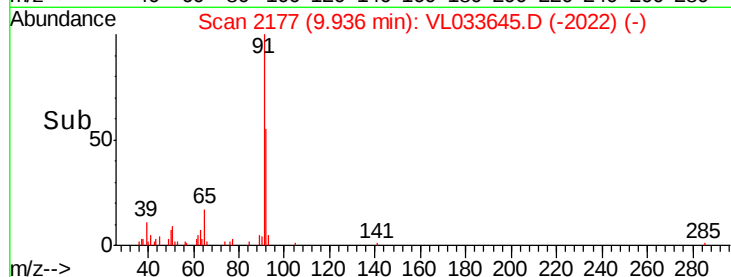
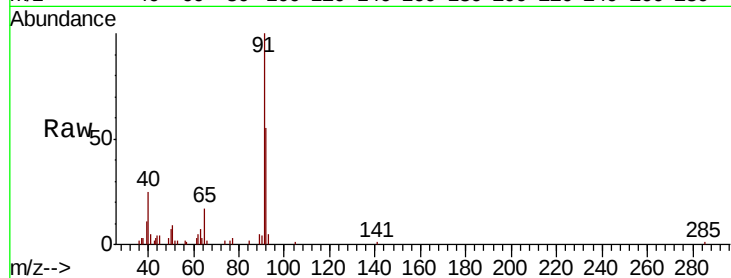
BFB

Tgt Ion: 91 Resp: 12779

Ion Ratio Lower Upper

91 100

92 0.0 47.8 71.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

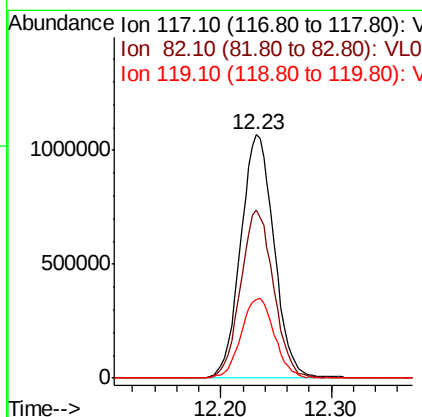
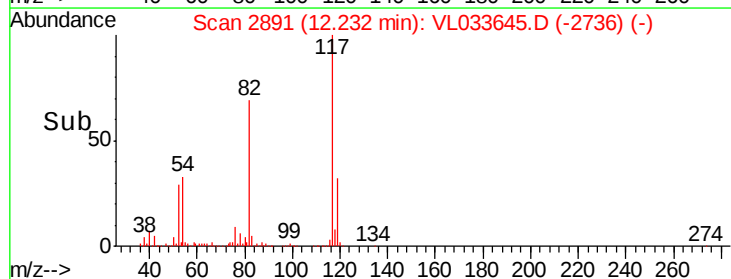
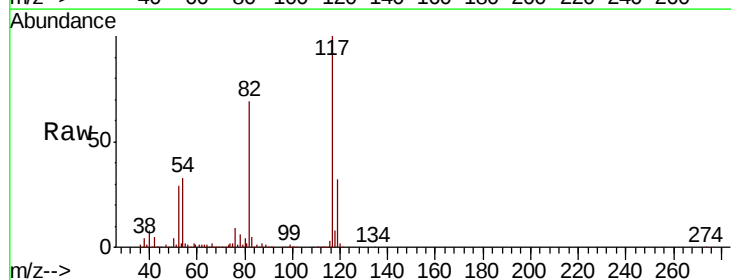
Tgt Ion: 117 Resp: 2234326

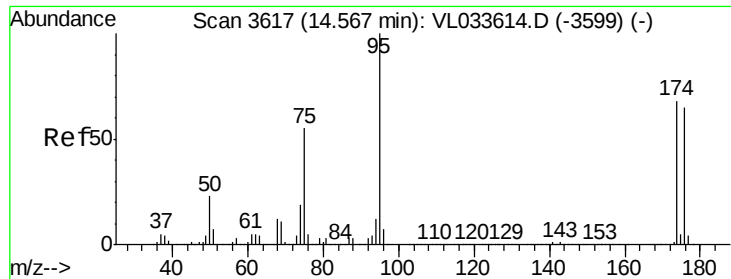
Ion Ratio Lower Upper

117 100

82 68.6 52.6 78.8

119 32.8 28.3 42.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.627 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033645.D

Acq: 3 May 2019 2:22

Instrument :

MSVOA_L

ClientSampleId :

BFB

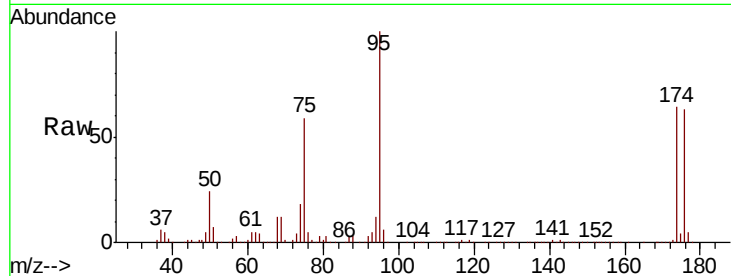
Tgt Ion: 95 Resp: 1807608

Ion Ratio Lower Upper

95 100

174 65.2 53.9 80.9

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

