

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033405.D
 Acq On : 21 Mar 2019 1:00
 Operator : SY/AP
 Sample : K1976-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Mar 21 12:40:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	804199	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1906735	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1809254	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.58	95	1334945	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

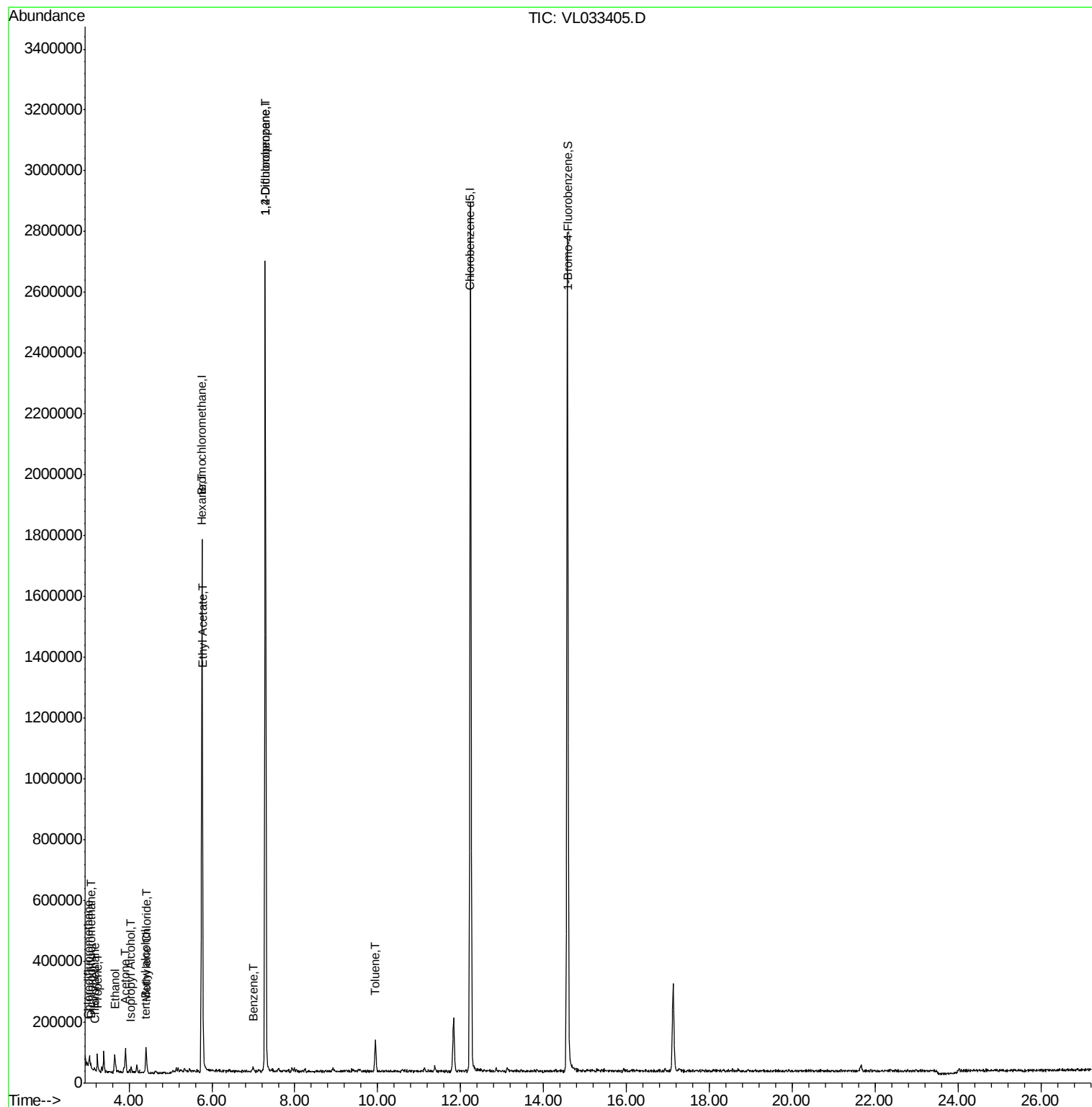
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10638	0.075	ppbv	89
3) Chlorodifluoromethane	3.01	51	15683	0.170	ppbv #	78
4) Chloromethane	3.17	50	3369	0.067	ppbv	93
9) Propene	3.24	41	13374	0.325	ppbv	88
13) Ethanol	3.66	45	58626	2.985	ppbv	96
15) Acetone	3.91	43	79892	0.639	ppbv	97
17) tert-Butyl alcohol	4.38	59	599	0.034	ppbv #	74
19) Isopropyl Alcohol	4.05	45	12302	0.207	ppbv #	1
20) Methylene Chloride	4.41	84	26494	0.650	ppbv	97
25) Ethyl Acetate	5.78	43	27679	0.152	ppbv #	89
26) Hexane	5.77	57	28558	0.352	ppbv #	49
36) Benzene	7.00	78	5163	0.030	ppbv #	90
39) 1,2-Dichloropropane	7.29	63	482354	7.548	ppbv #	24
53) Toluene	9.95	91	73638	0.380	ppbv	99

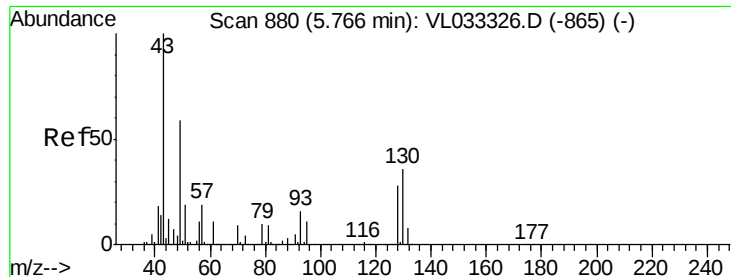
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 21 12:40:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

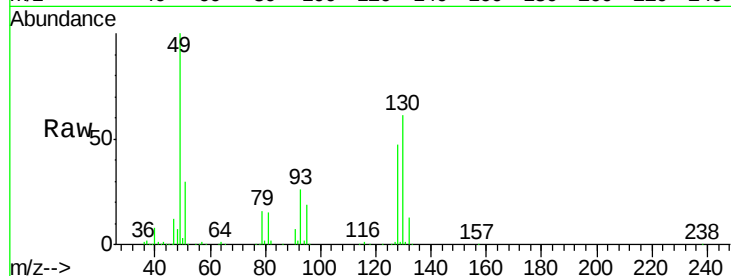
Tgt Ion: 49 Resp: 804199

Ion Ratio Lower Upper

49 100

128 48.7 23.5 70.6

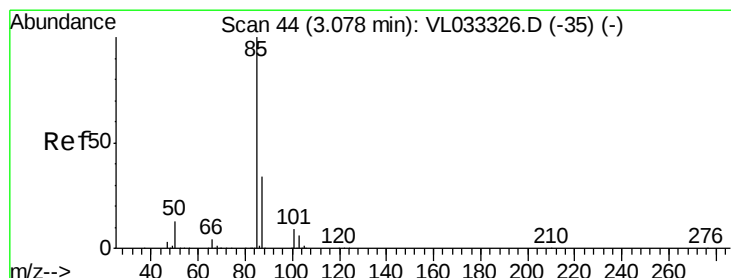
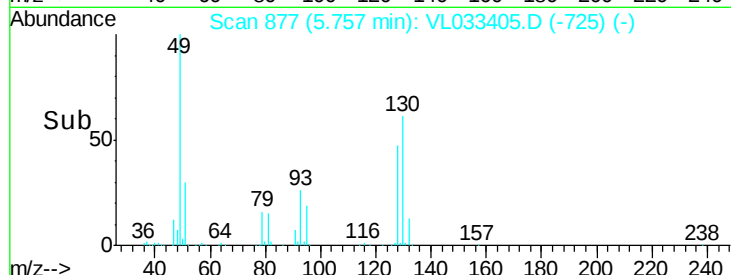
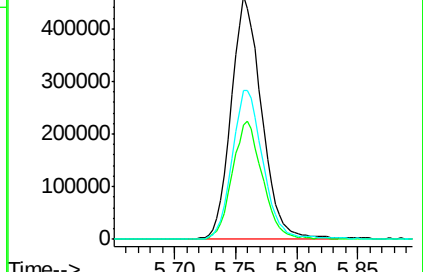
130 61.9 30.1 90.3



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: 0.075 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033405.D

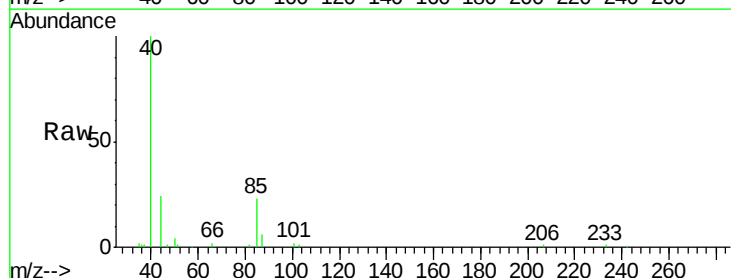
Acq: 21 Mar 2019 1:00

Tgt Ion: 85 Resp: 10638

Ion Ratio Lower Upper

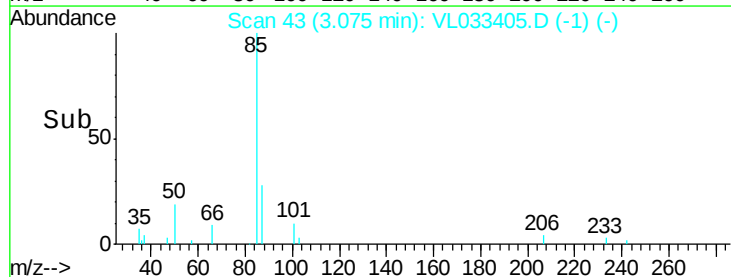
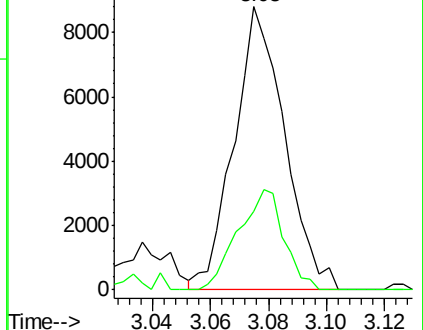
85 100

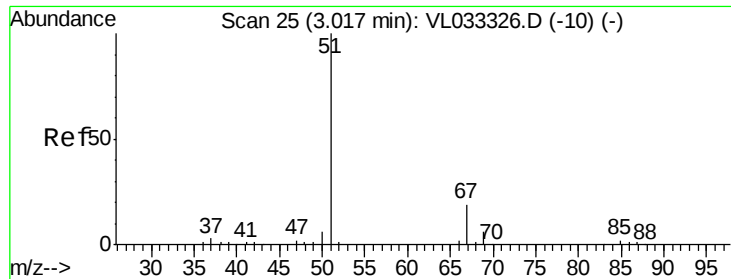
87 27.5 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

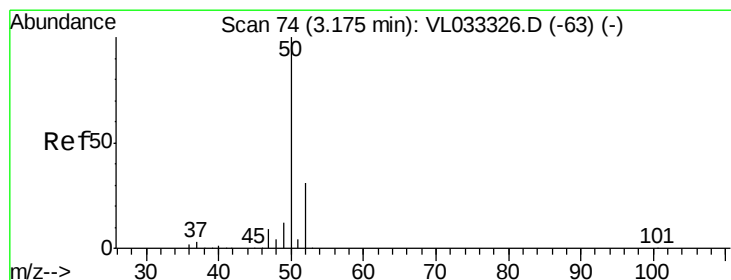
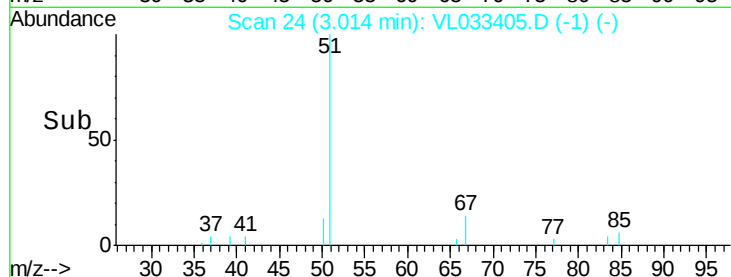
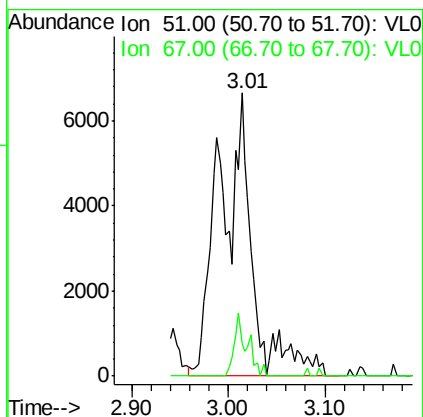
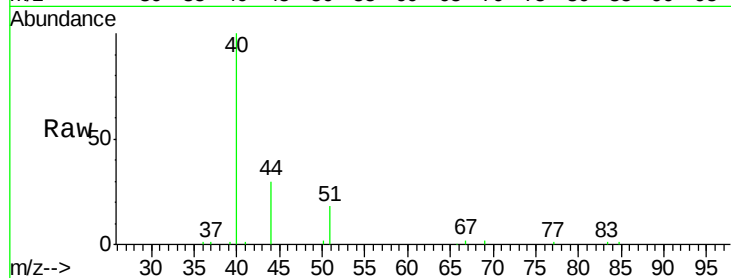




#3
Chlorodifluoromethane
Concen: 0.170 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033405.D
Acq: 21 Mar 2019 1:00

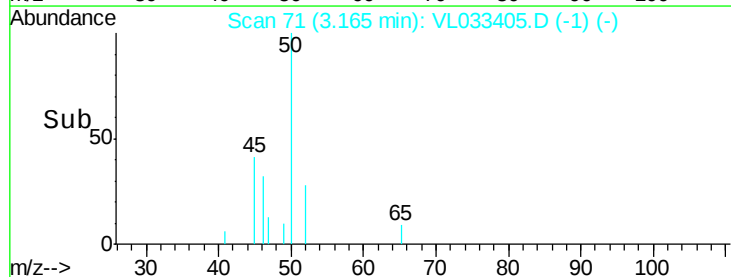
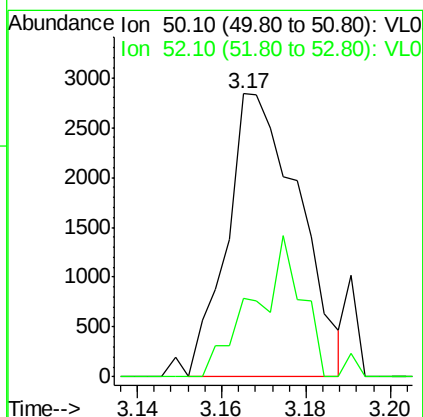
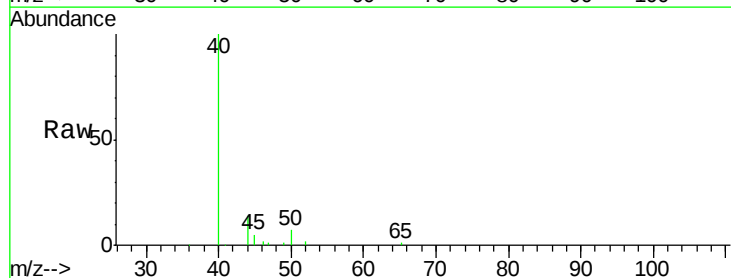
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

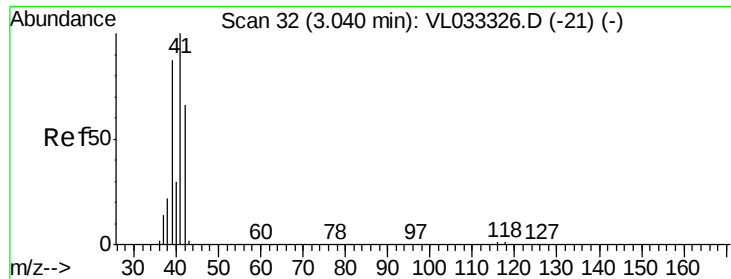
Tgt Ion: 51 Resp: 15683
Ion Ratio Lower Upper
51 100
67 8.6 14.9 22.3#



#4
Chloromethane
Concen: 0.067 ppbv
RT: 3.17 min Scan# 71
Delta R.T. -0.01 min
Lab File: VL033405.D
Acq: 21 Mar 2019 1:00

Tgt Ion: 50 Resp: 3369
Ion Ratio Lower Upper
50 100
52 27.6 25.0 37.6





#9

Propene

Concen: 0.325 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampleId :

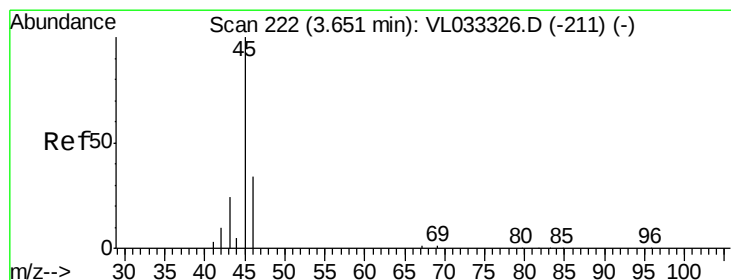
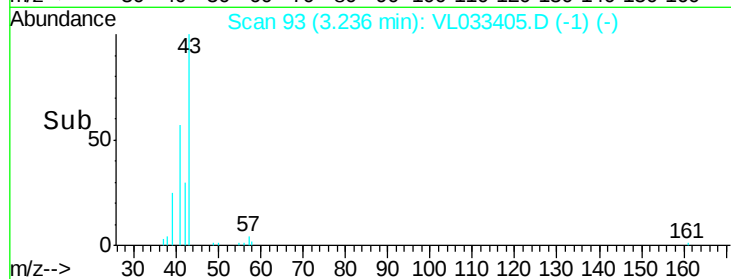
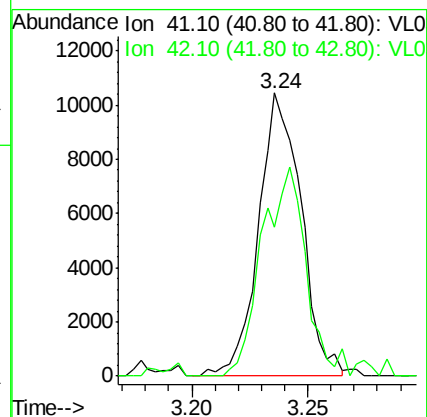
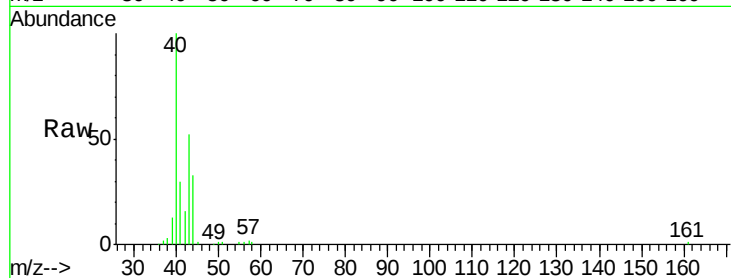
IA2DL

Tgt Ion: 41 Resp: 13374

Ion Ratio Lower Upper

41 100

42 79.0 55.2 82.8



#13

Ethanol

Concen: 2.985 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033405.D

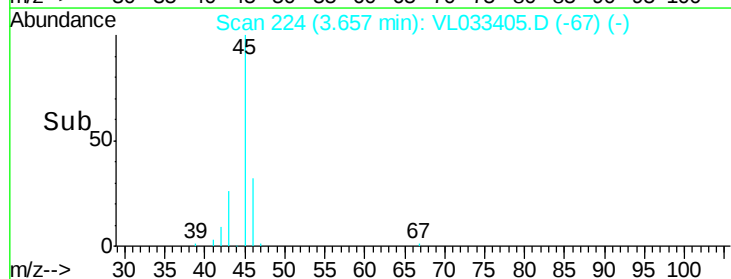
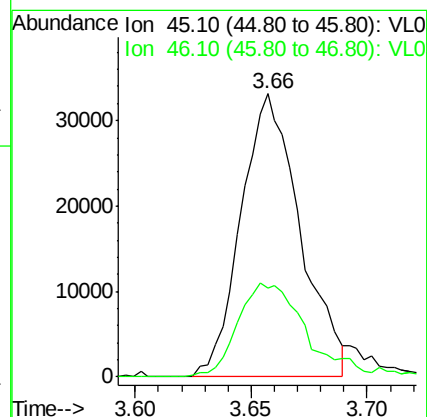
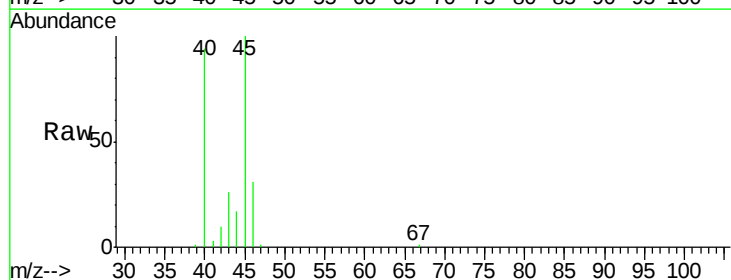
Acq: 21 Mar 2019 1:00

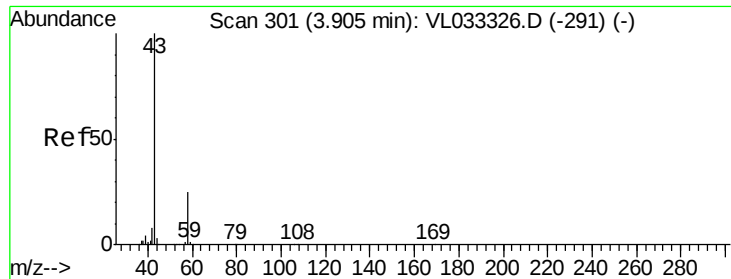
Tgt Ion: 45 Resp: 58626

Ion Ratio Lower Upper

45 100

46 39.9 14.9 59.7





#15

Acetone

Concen: 0.639 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampled :

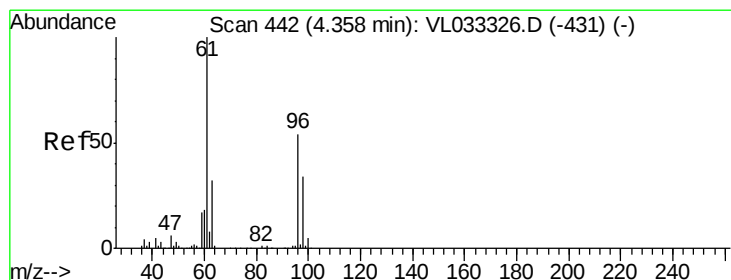
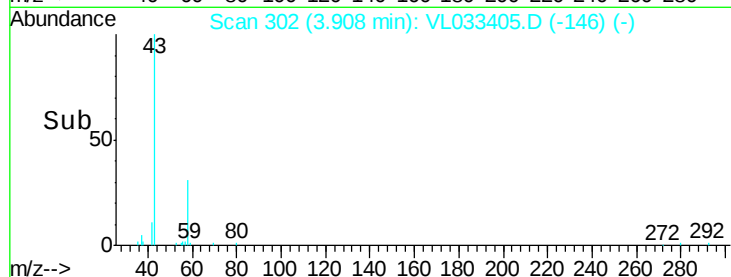
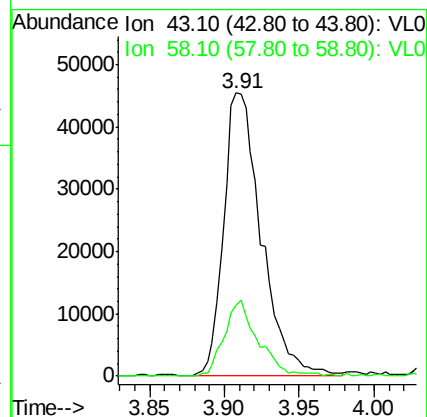
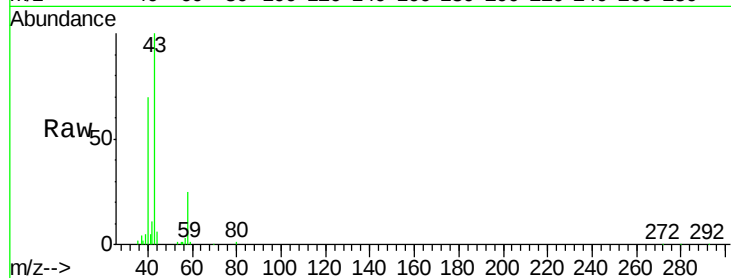
IA2DL

Tgt Ion: 43 Resp: 79892

Ion Ratio Lower Upper

43 100

58 24.2 20.4 30.6



#17

tert-Butyl alcohol

Concen: 0.034 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.03 min

Lab File: VL033405.D

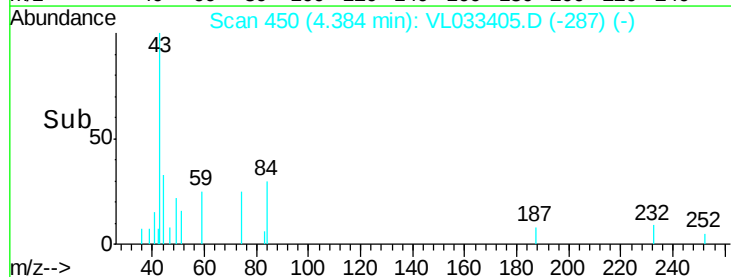
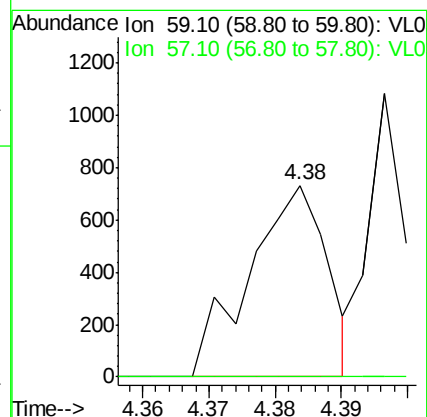
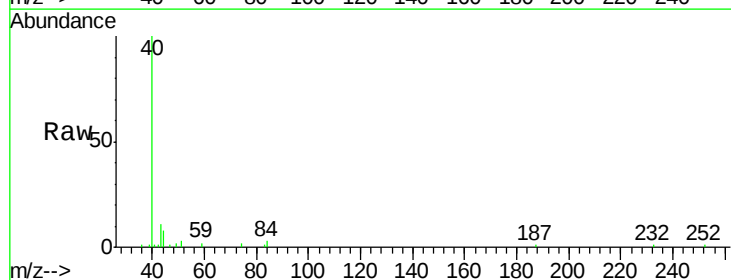
Acq: 21 Mar 2019 1:00

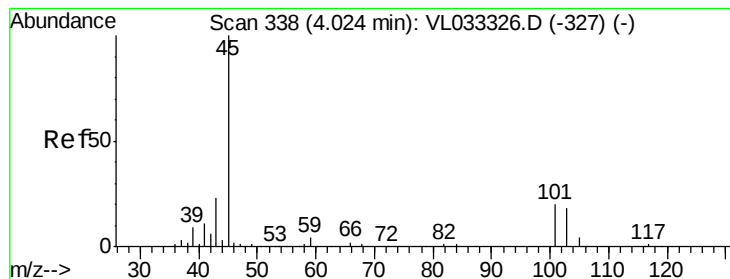
Tgt Ion: 59 Resp: 599

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#





#19

Isopropyl Alcohol

Concen: 0.207 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.03 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampleId :

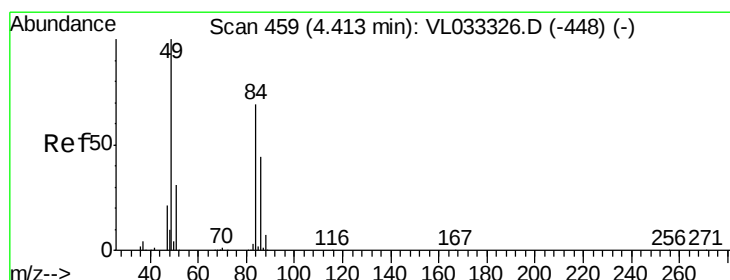
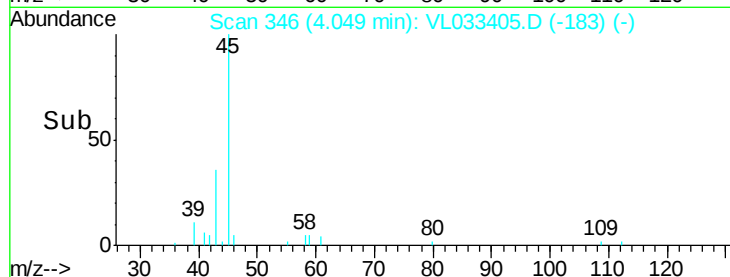
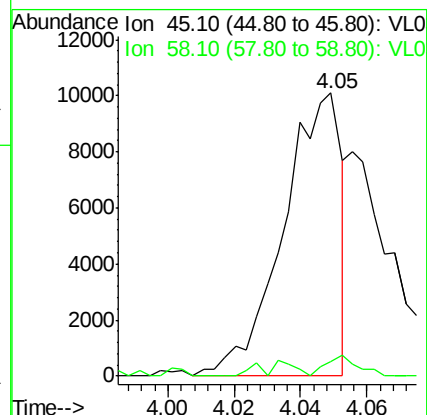
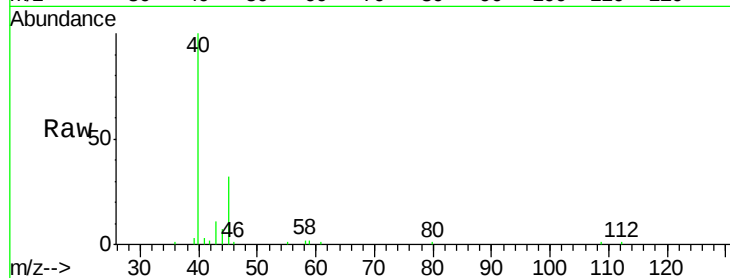
IA2DL

Tgt Ion: 45 Resp: 12302

Ion Ratio Lower Upper

45 100

58 158.3 1.5 2.3#



#20

Methylene Chloride

Concen: 0.650 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Tgt Ion: 84 Resp: 26494

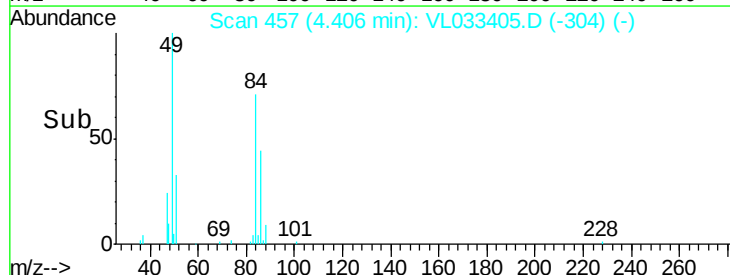
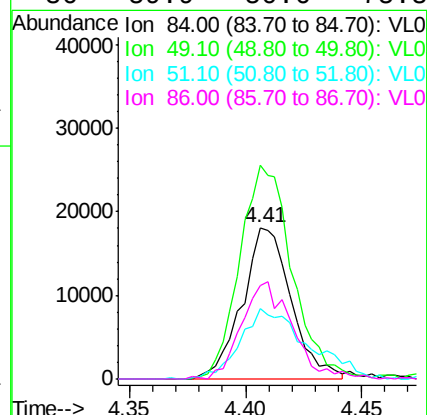
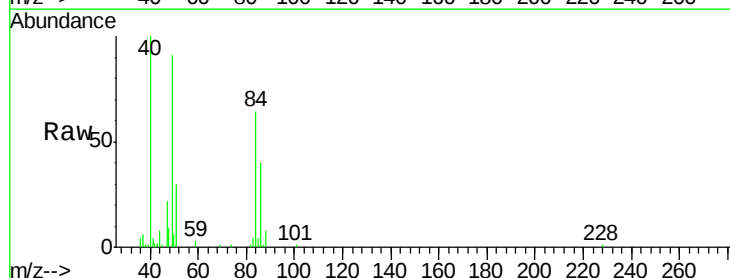
Ion Ratio Lower Upper

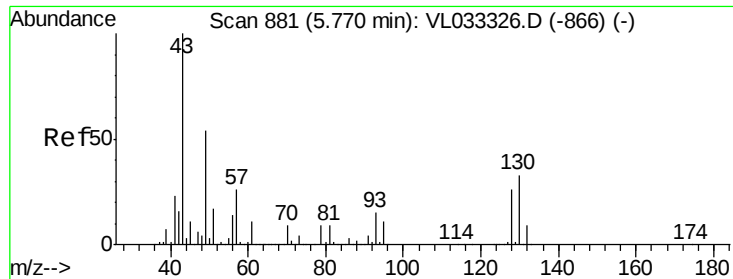
84 100

49 140.5 115.4 173.0

51 45.1 35.8 53.6

86 59.9 50.6 75.8





#25

Ethyl Acetate

Concen: 0.152 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 43 Resp: 27679

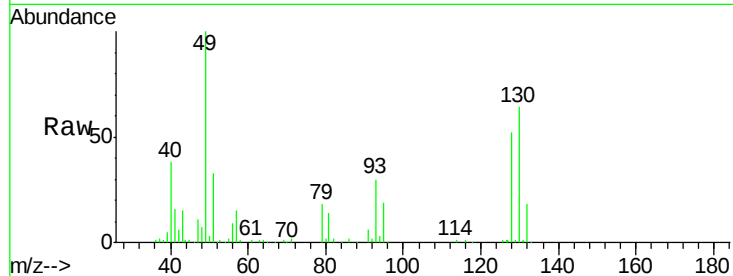
Ion Ratio Lower Upper

43 100

45 8.0 7.9 11.9

61 3.4 7.4 11.2#

70 3.1 5.7 8.5#

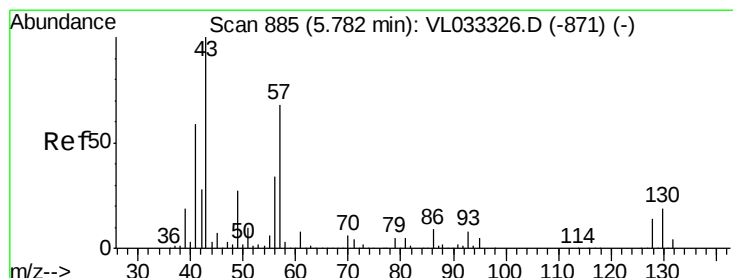
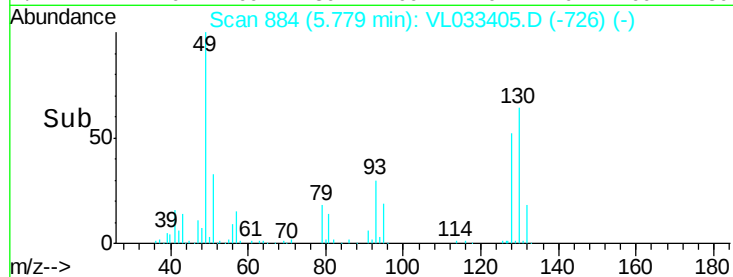
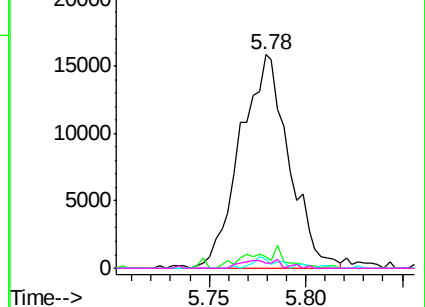


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.352 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Tgt Ion: 57 Resp: 28558

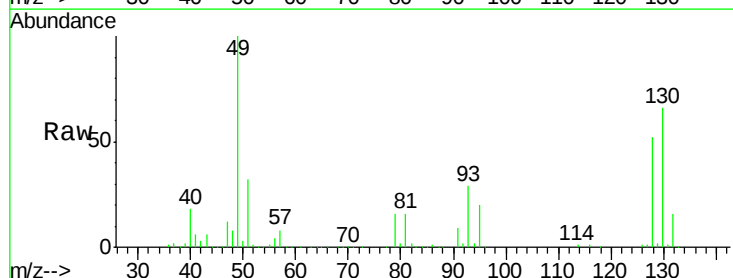
Ion Ratio Lower Upper

57 100

41 95.6 70.5 105.7

43 99.4 181.8 272.8#

56 58.2 42.2 63.2

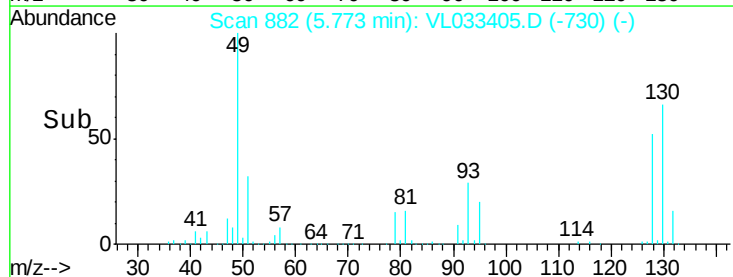
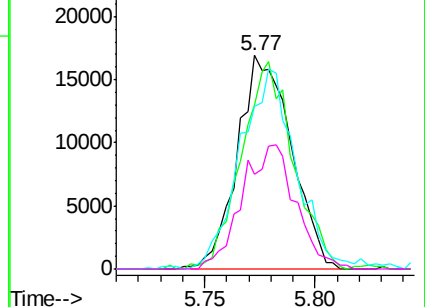


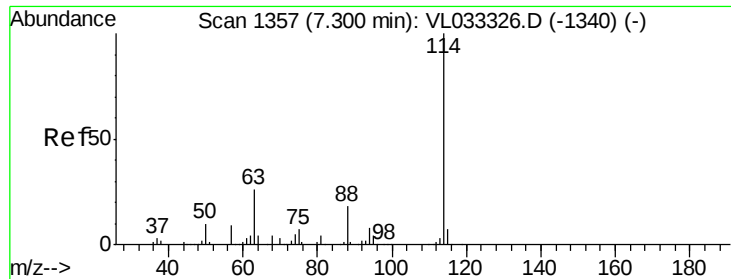
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

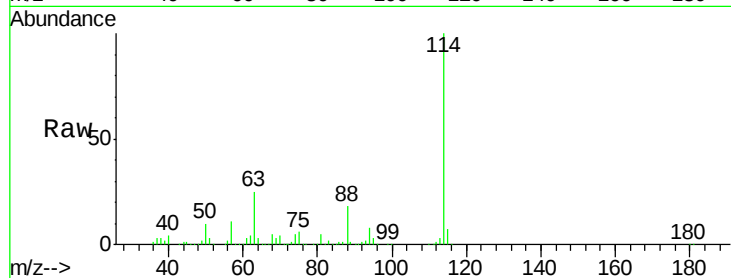




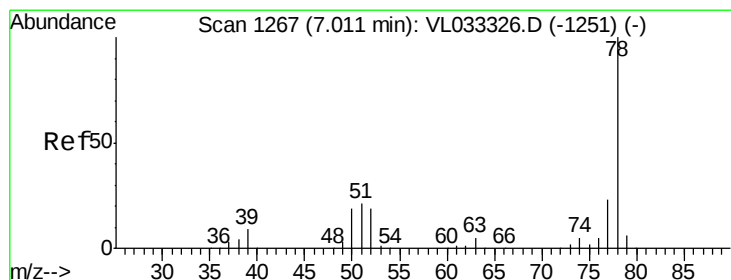
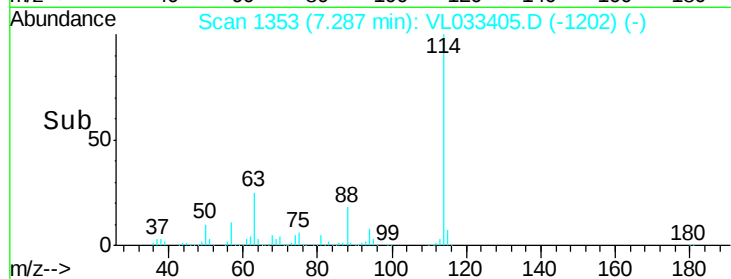
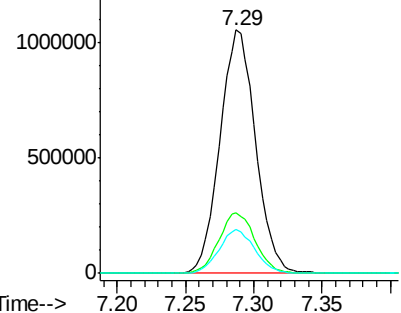
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033405.D
 Acq: 21 Mar 2019 1:00

Instrument :
 MSVOA_L
 ClientSampleID :
 IA2DL

Tgt Ion:114 Resp: 1906735
 Ion Ratio Lower Upper
 114 100
 63 25.4 21.4 32.2
 88 18.2 14.5 21.7

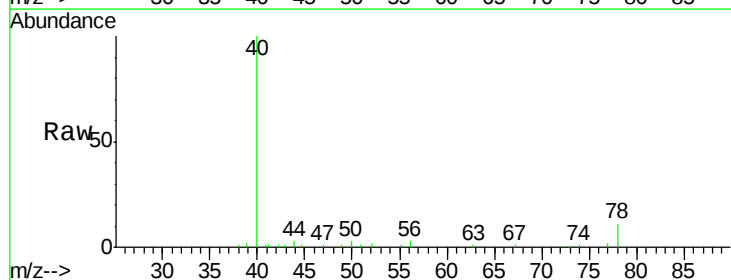


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

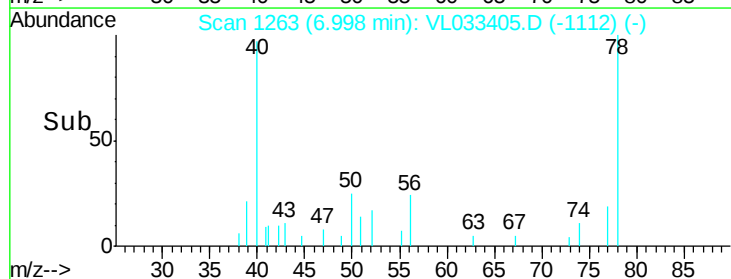
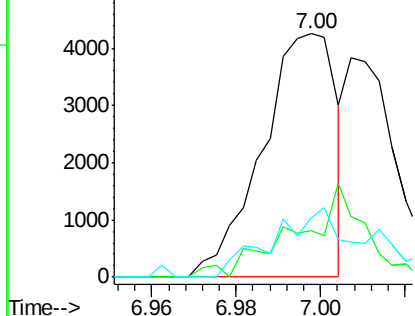


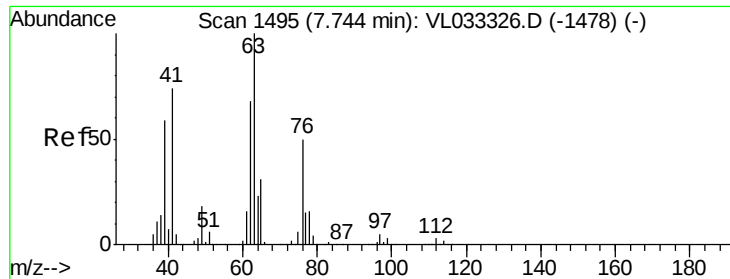
#36
 Benzene
 Concen: 0.030 ppbv
 RT: 7.00 min Scan# 1263
 Delta R.T. -0.01 min
 Lab File: VL033405.D
 Acq: 21 Mar 2019 1:00

Tgt Ion: 78 Resp: 5163
 Ion Ratio Lower Upper
 78 100
 77 19.0 18.1 27.1
 50 24.5 15.2 22.8#



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

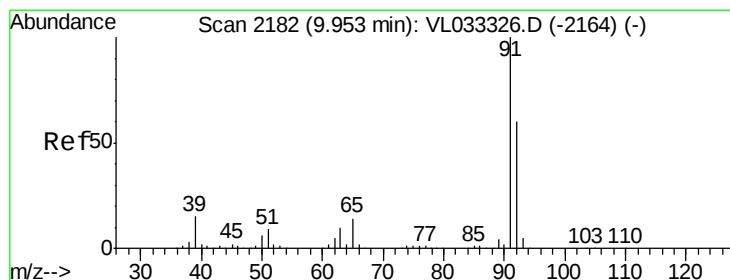
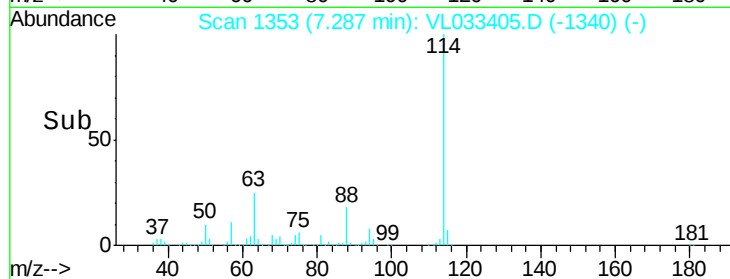
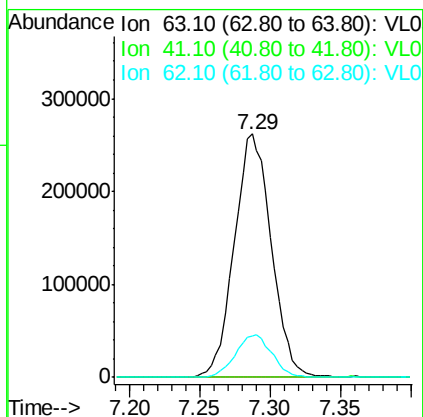
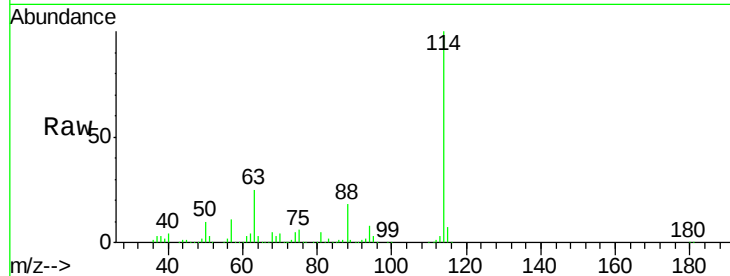




#39
 1,2-Dichloropropane
 Concen: 7.548 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033405.D
 Acq: 21 Mar 2019 1:00

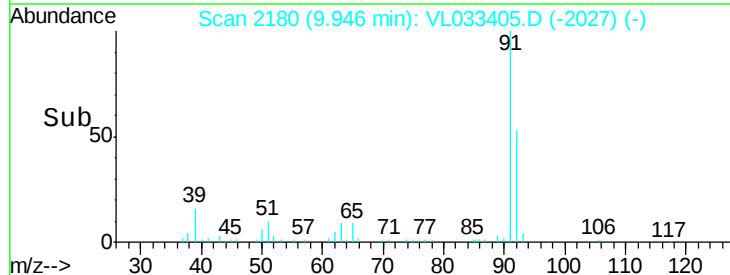
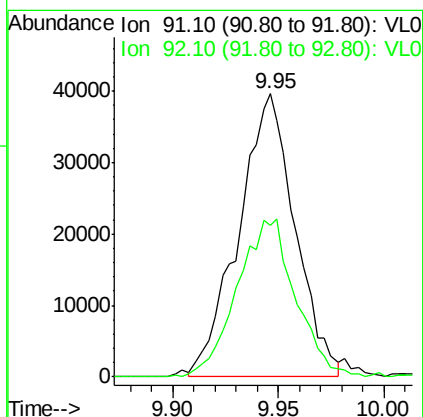
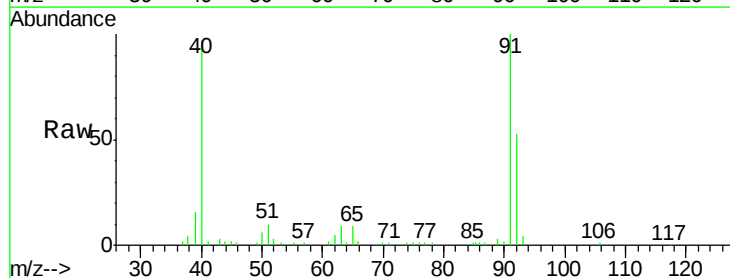
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

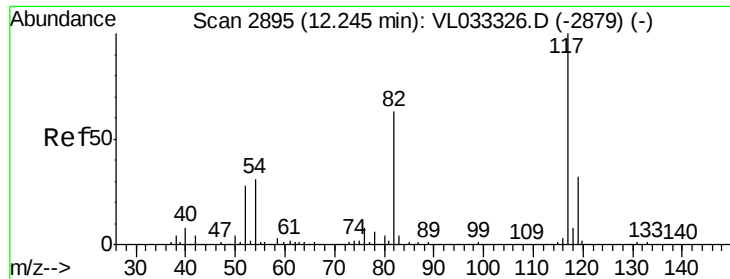
Tgt Ion: 63 Resp: 482354
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 16.8 54.7 82.1#



#53
 Toluene
 Concen: 0.380 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: VL033405.D
 Acq: 21 Mar 2019 1:00

Tgt Ion: 91 Resp: 73638
 Ion Ratio Lower Upper
 91 100
 92 58.3 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

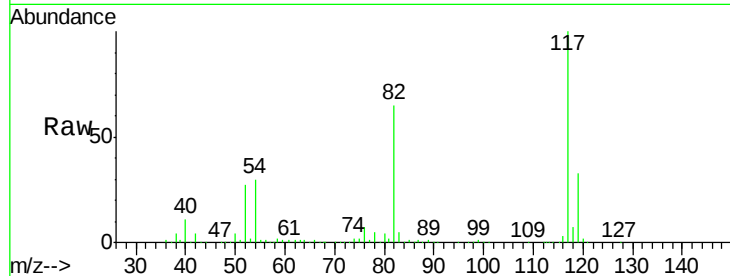
Tgt Ion:117 Resp: 1809254

Ion Ratio Lower Upper

117 100

82 65.3 53.4 80.2

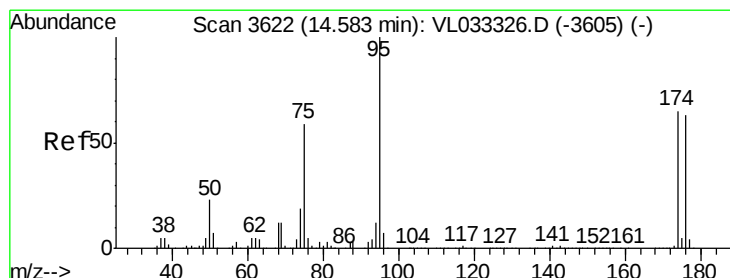
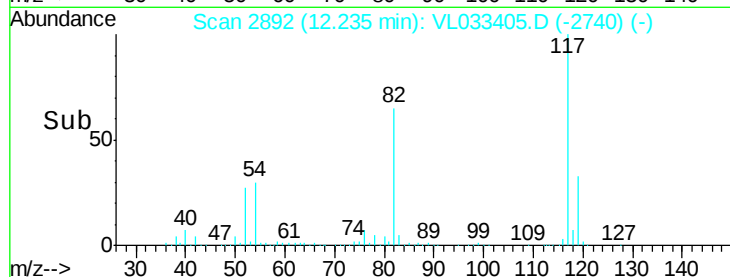
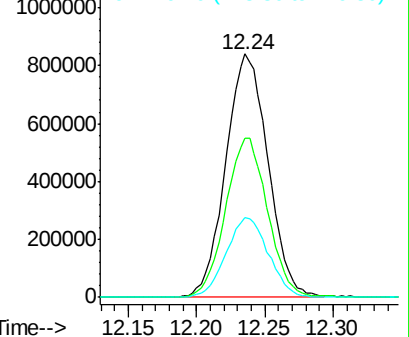
119 33.0 27.3 40.9



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.957 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033405.D

Acq: 21 Mar 2019 1:00

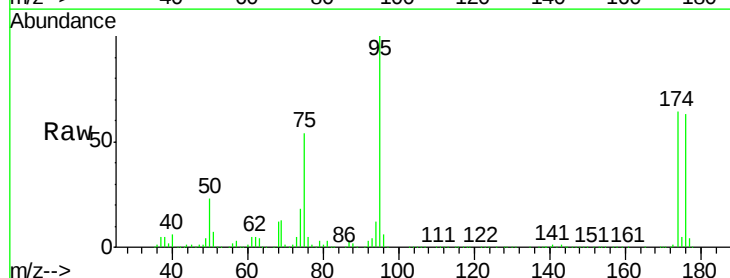
Tgt Ion: 95 Resp: 1334945

Ion Ratio Lower Upper

95 100

174 67.0 51.5 77.3

175 4.9 3.8 5.6



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

