

Data File : VL033192.D
Acq On : 13 Feb 2019 18:27
Operator : SY/AP
Sample : K1408-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
FM-AADL

Quant Time: Feb 14 04:27:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	986004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2259176	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2230078	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1787224	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

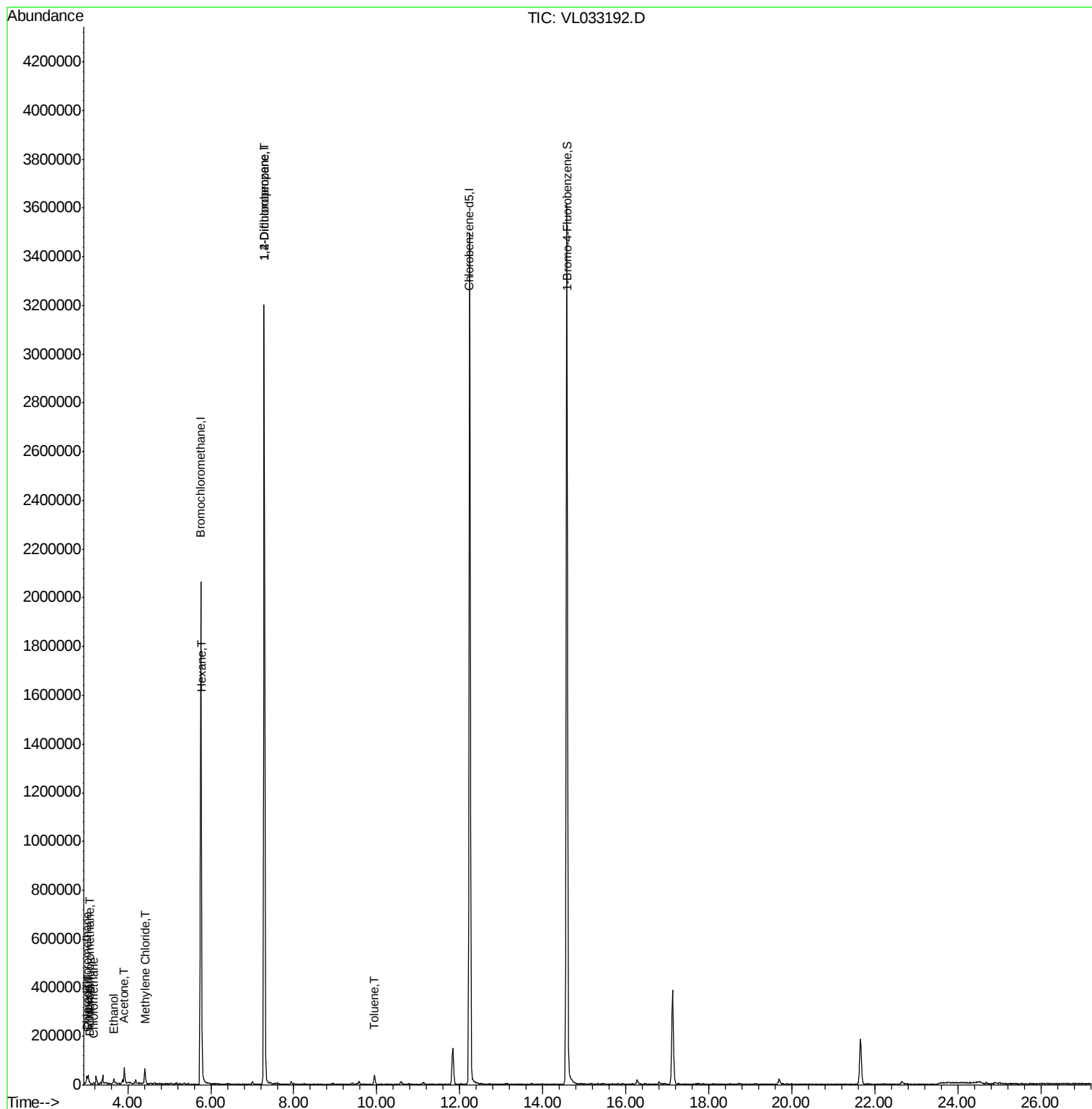
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	6862	0.036	ppbv #	85
3) Chlorodifluoromethane	3.02	51	29151	0.246	ppbv	96
4) Chloromethane	3.17	50	2519	0.040	ppbv #	68
9) Propene	3.04	41	3094	0.054	ppbv #	57
13) Ethanol	3.67	45	15940	0.833	ppbv	98
15) Acetone	3.92	43	54434	0.490	ppbv	97
20) Methylene Chloride	4.41	84	12695	0.287	ppbv	98
26) Hexane	5.78	57	26013	0.222	ppbv #	44
39) 1,2-Dichloropropane	7.29	63	601202	6.649	ppbv #	24
53) Toluene	9.95	91	25311	0.093	ppbv	94

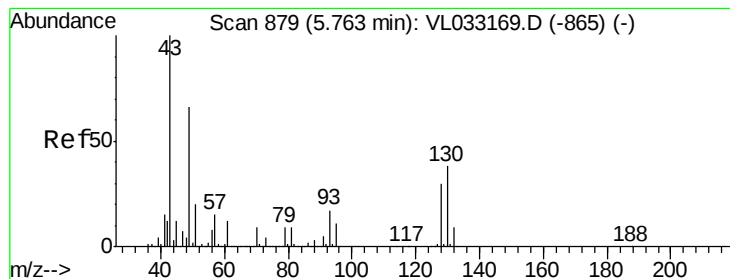
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 06 09:13:11 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: VL033192.D

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Instrument :

MSVOA_L

ClientSampleId :

FM-AADL

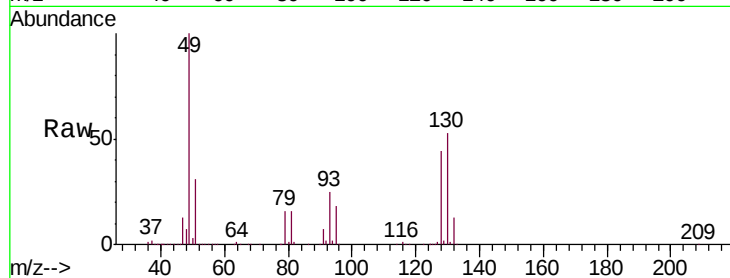
Tgt Ion: 49 Resp: 986004

Ion Ratio Lower Upper

49 100

128 46.4 23.6 71.0

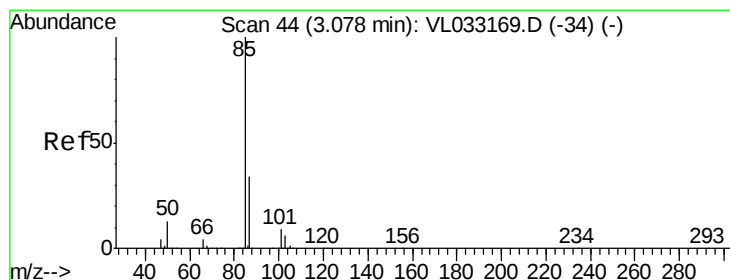
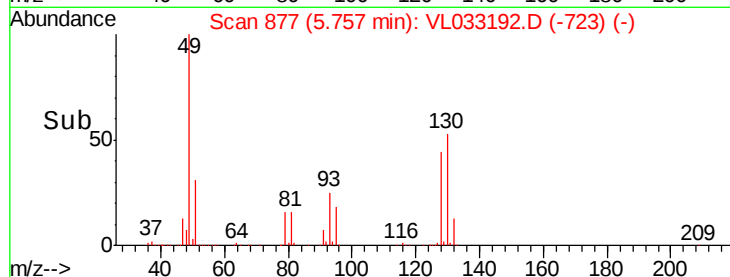
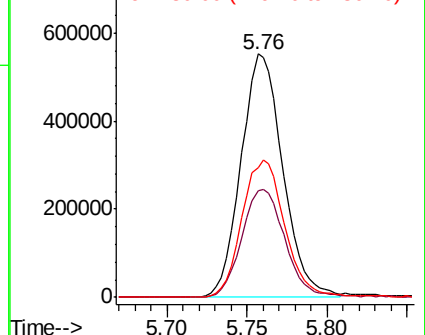
130 58.8 30.3 91.0



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: 0.036 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033192.D

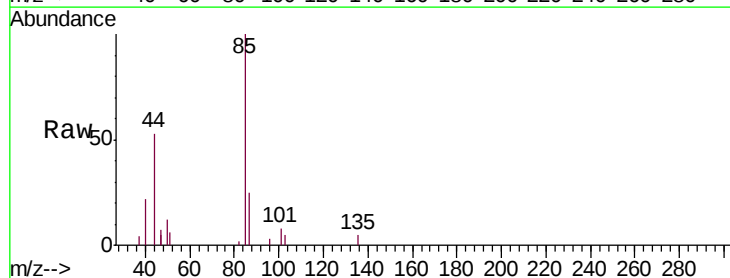
Acq: 13 Feb 2019 18:27

Tgt Ion: 85 Resp: 6862

Ion Ratio Lower Upper

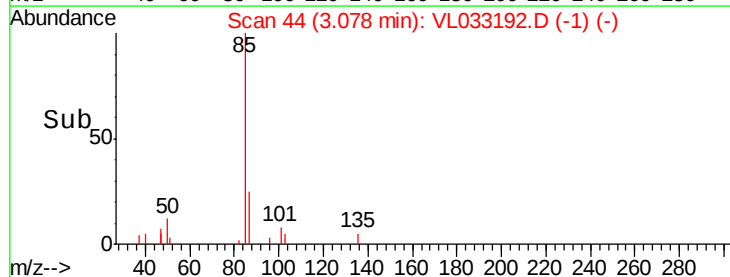
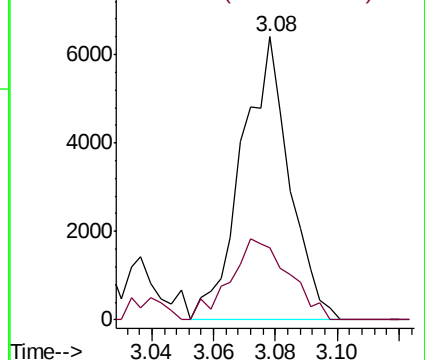
85 100

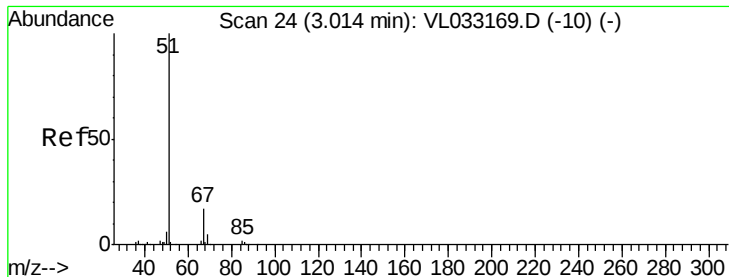
87 25.4 27.4 41.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.246 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033192.D

Acq: 13 Feb 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

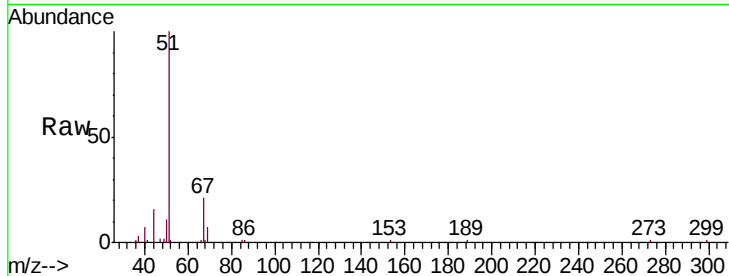
FM-AADL

Tgt Ion: 51 Resp: 29151

Ion Ratio Lower Upper

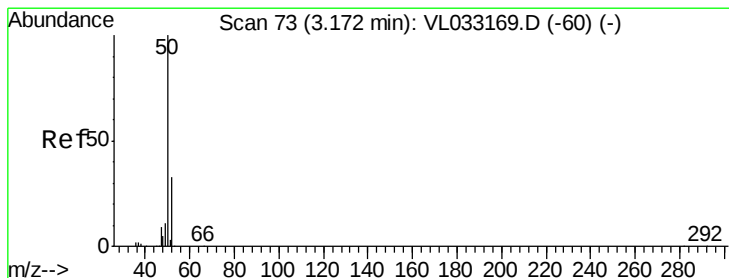
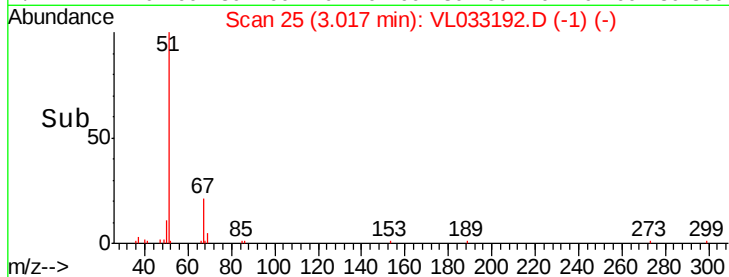
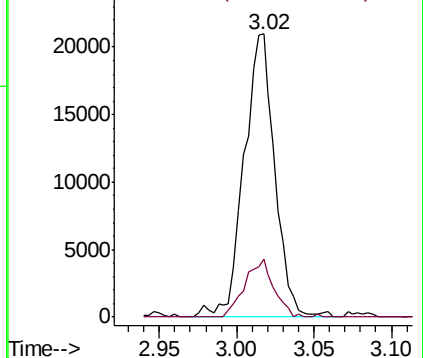
51 100

67 19.3 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033192.D

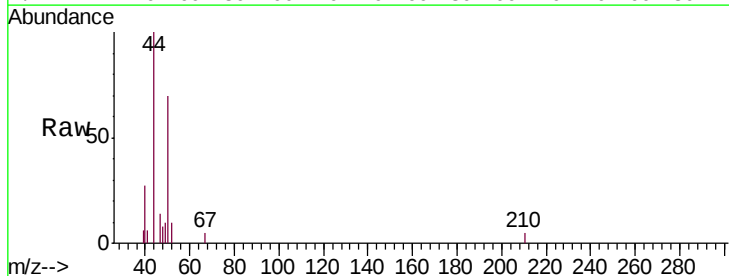
Acq: 13 Feb 2019 18:27

Tgt Ion: 50 Resp: 2519

Ion Ratio Lower Upper

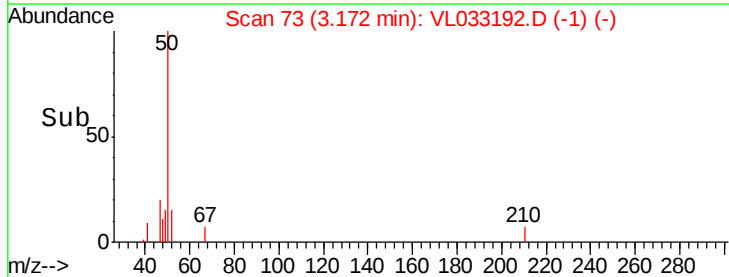
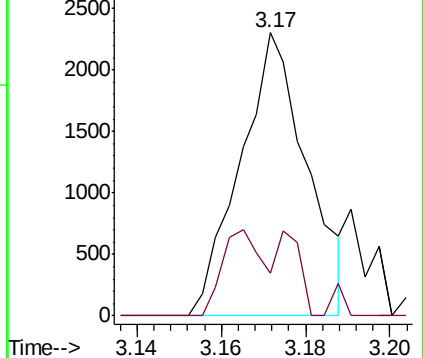
50 100

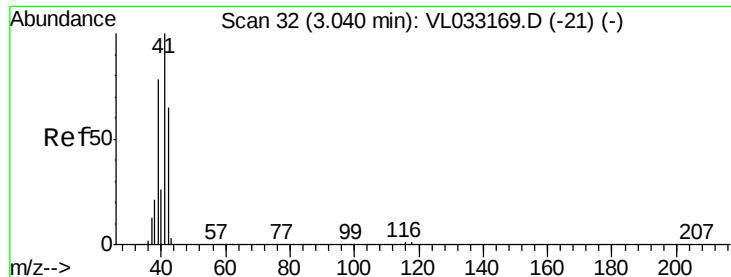
52 15.0 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.054 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033192.D

Acq: 13 Feb 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

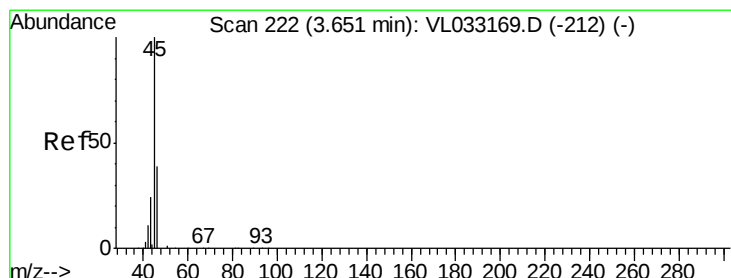
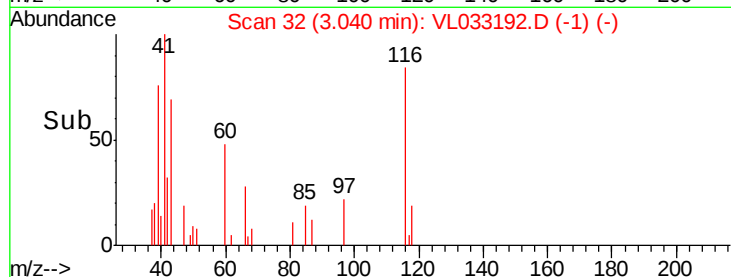
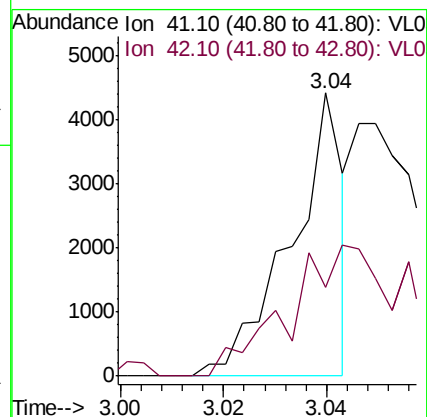
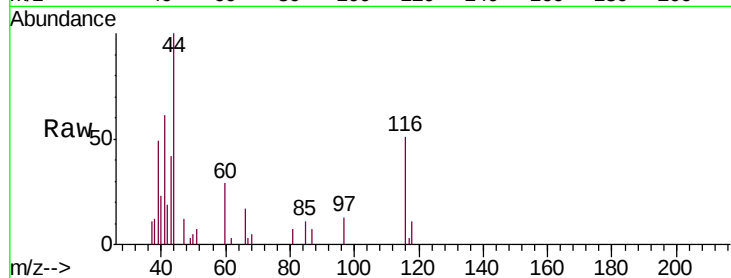
FM-AADL

Tgt Ion: 41 Resp: 3094

Ion Ratio Lower Upper

41 100

42 103.4 55.0 82.6#



#13

Ethanol

Concen: 0.833 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033192.D

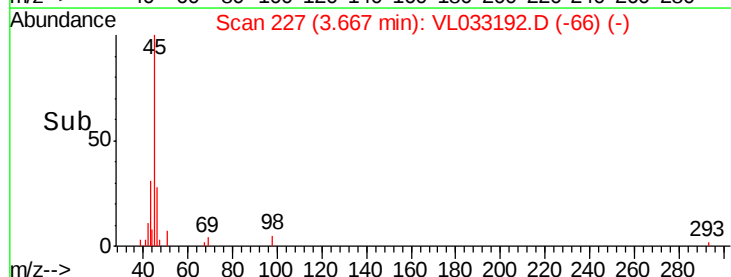
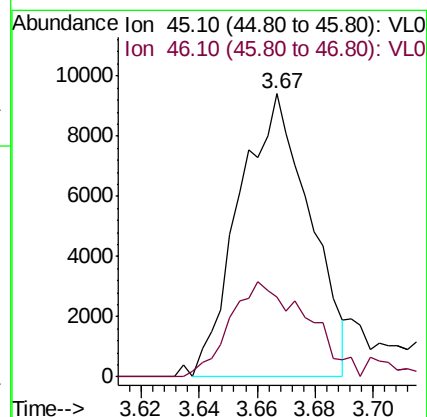
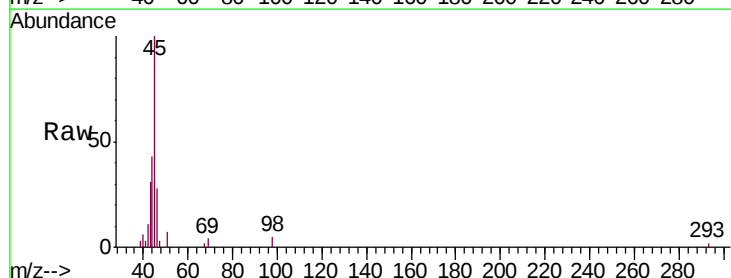
Acq: 13 Feb 2019 18:27

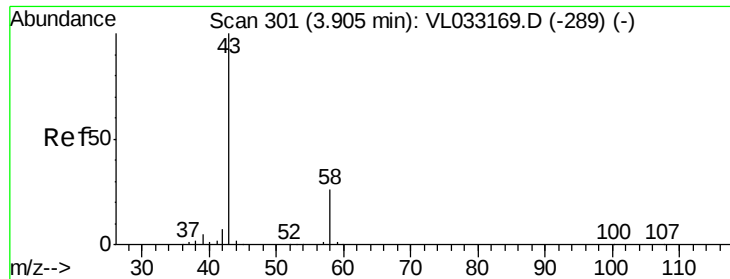
Tgt Ion: 45 Resp: 15940

Ion Ratio Lower Upper

45 100

46 36.6 15.0 60.2





#15

Acetone

Concen: 0.490 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033192.D

Acq: 13 Feb 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

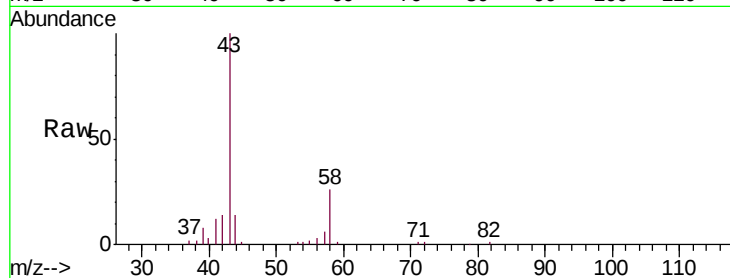
FM-AADL

Tgt Ion: 43 Resp: 54434

Ion Ratio Lower Upper

43 100

58 27.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.92

40000

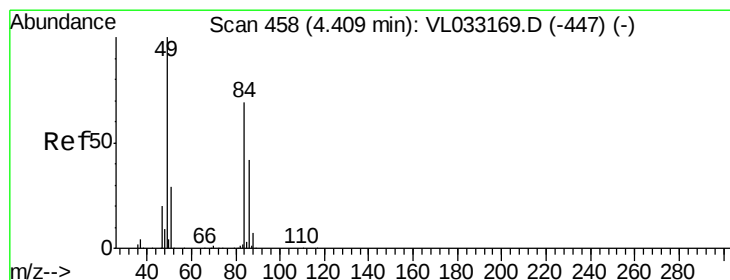
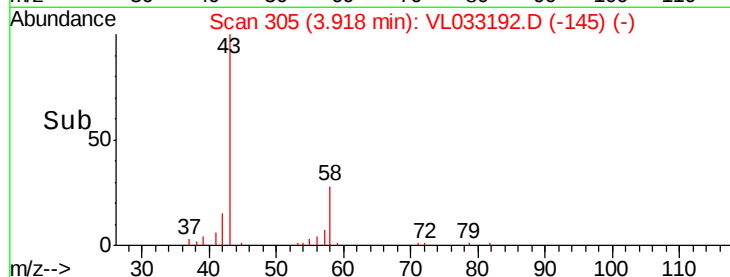
30000

20000

10000

0

Time--> 3.85 3.90 3.95



#20

Methylene Chloride

Concen: 0.287 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033192.D

Acq: 13 Feb 2019 18:27

Tgt Ion: 84 Resp: 12695

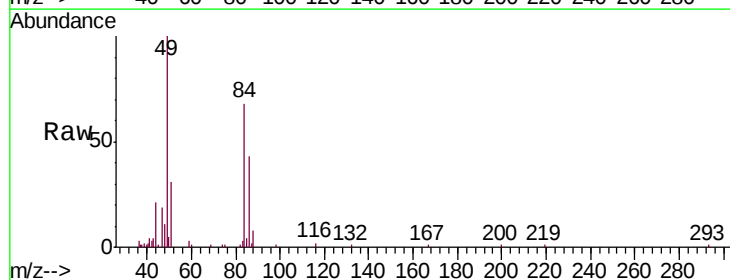
Ion Ratio Lower Upper

84 100

49 146.4 115.8 173.8

51 39.8 33.0 49.6

86 61.4 48.2 72.2



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

30000

25000

20000

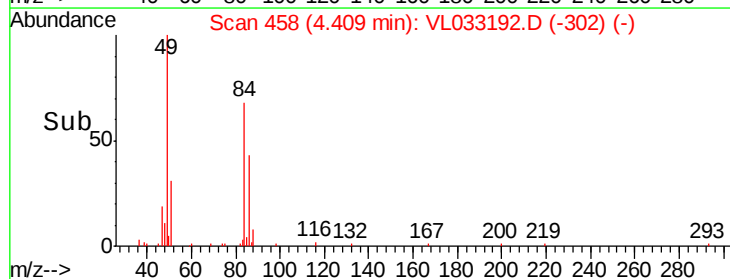
15000

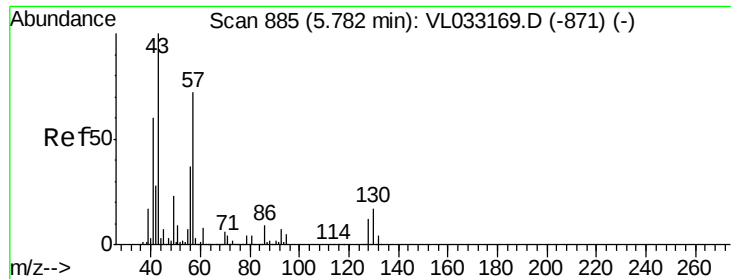
10000

5000

0

Time--> 4.40 4.42 4.44

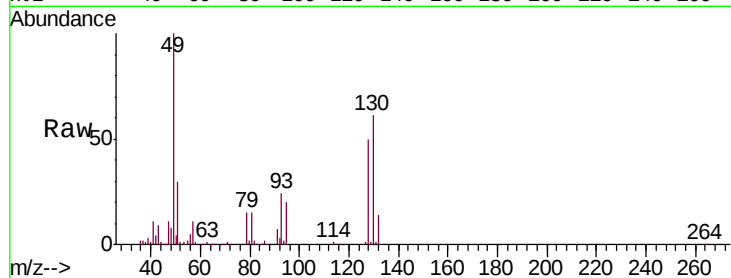




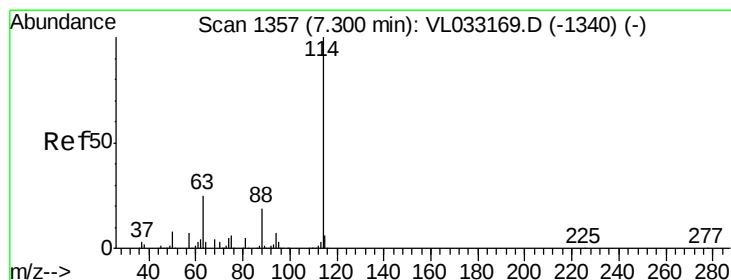
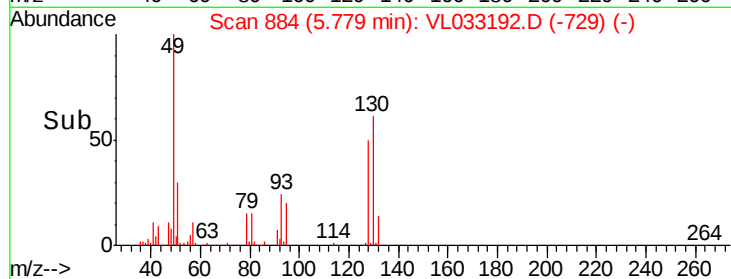
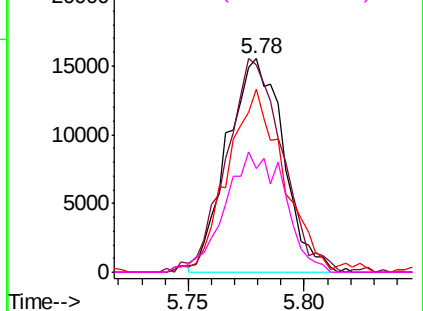
#26
Hexane
Concen: 0.222 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033192.D
Acq: 13 Feb 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
FM-AADL

Tgt Ion: 57 Resp: 26013
Ion Ratio Lower Upper
57 100
41 101.0 69.4 104.2
43 87.3 176.7 265.1#
56 59.7 41.4 62.0

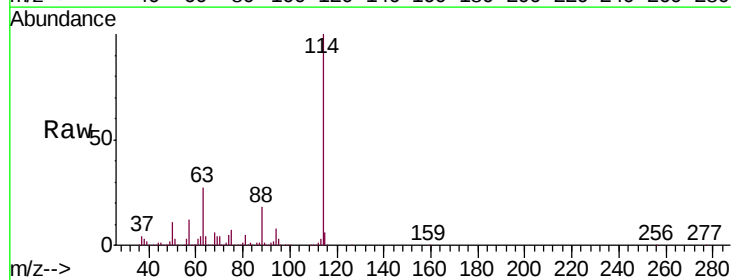


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

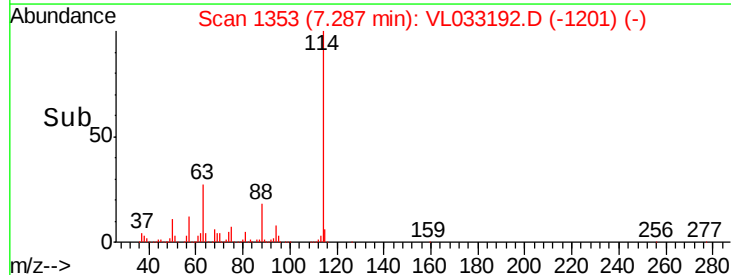
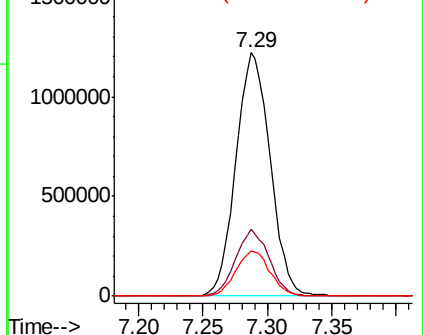


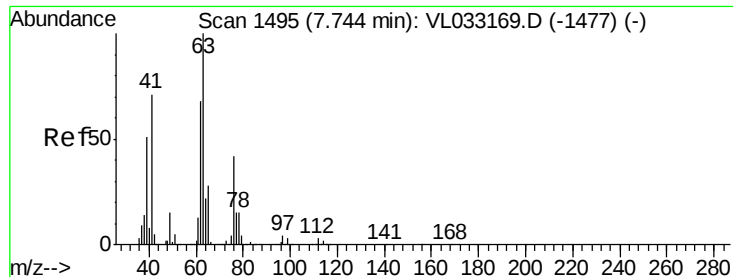
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033192.D
Acq: 13 Feb 2019 18:27

Tgt Ion: 114 Resp: 2259176
Ion Ratio Lower Upper
114 100
63 26.8 20.8 31.2
88 18.4 14.6 22.0



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





#39

1,2-Dichloropropane

Concen: 6.649 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033192.D

Acq: 13 Feb 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

FM-AADL

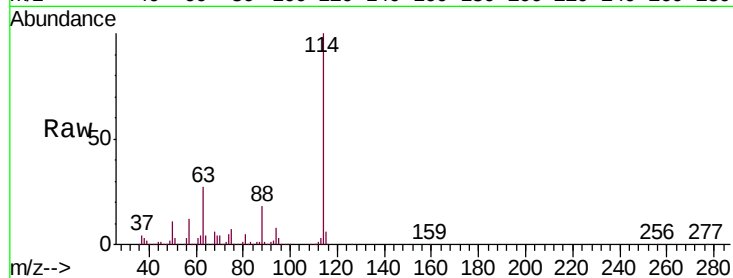
Tgt Ion: 63 Resp: 601202

Ion Ratio Lower Upper

63 100

41 0.1 56.4 84.6#

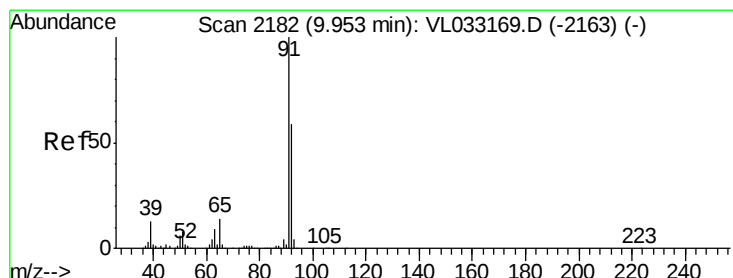
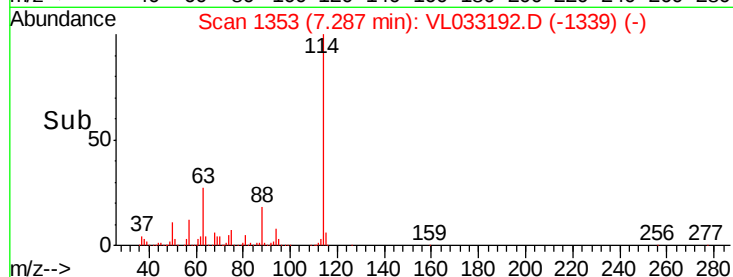
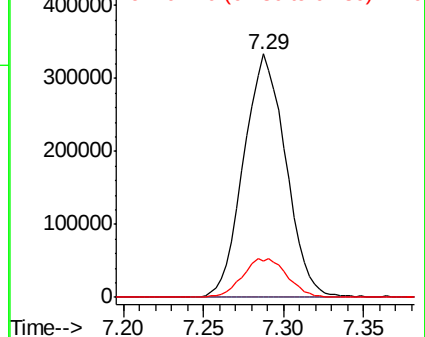
62 15.1 54.2 81.4#



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: 0.093 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033192.D

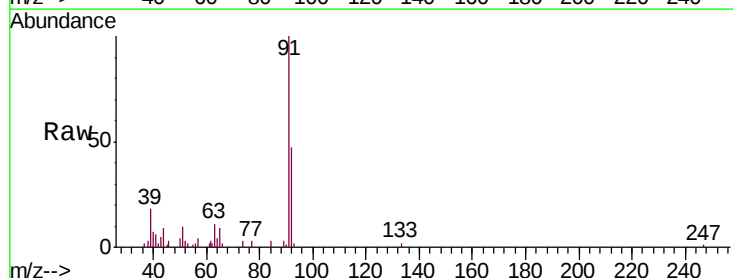
Acq: 13 Feb 2019 18:27

Tgt Ion: 91 Resp: 25311

Ion Ratio Lower Upper

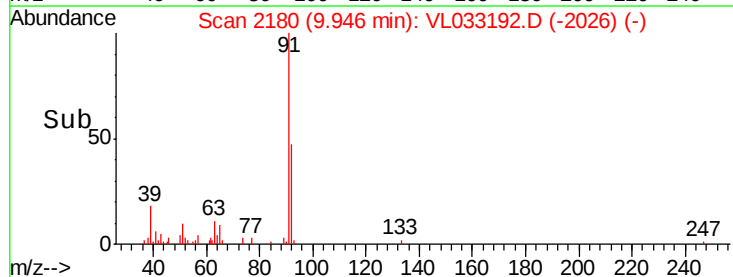
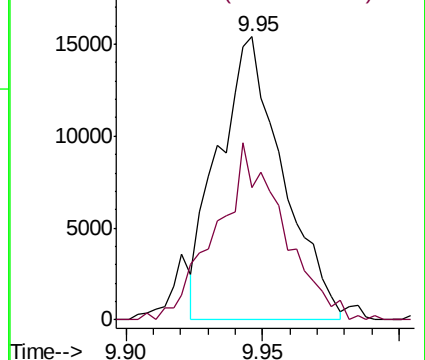
91 100

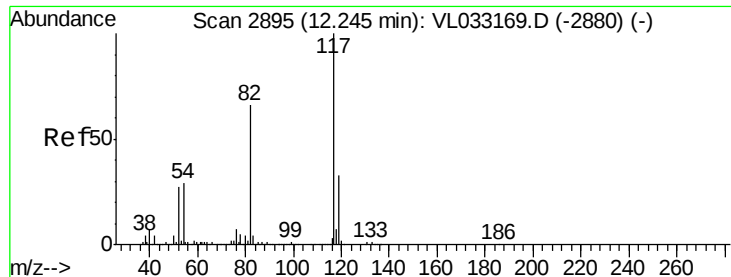
92 64.7 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

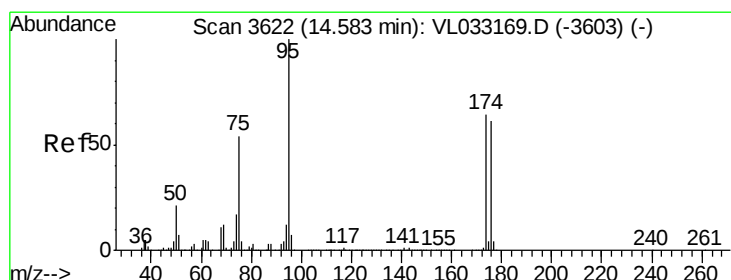
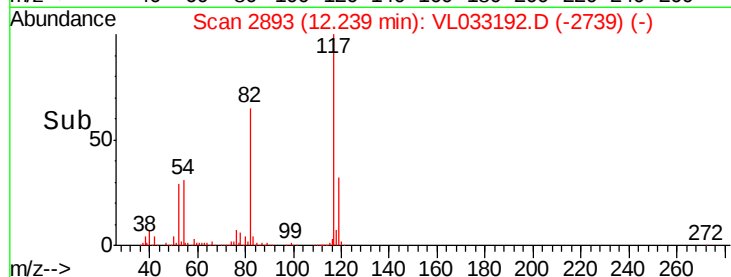
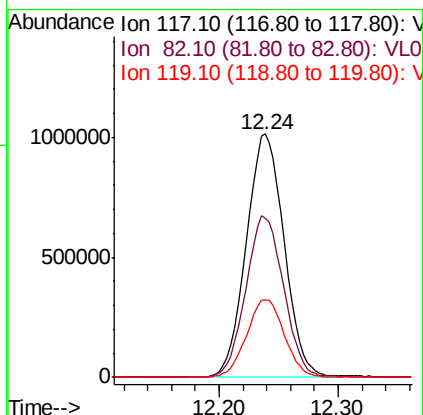
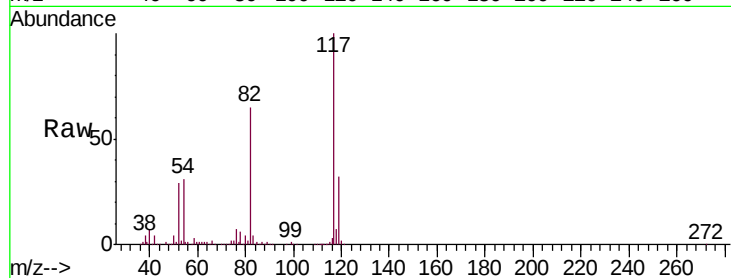




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033192.D
Acq: 13 Feb 2019 18:27

Instrument :
MSVOA_L
ClientSampled :
FM-AADL

Tgt Ion: 117 Resp: 2230078
Ion Ratio Lower Upper
117 100
82 66.9 49.5 74.3
119 32.1 24.4 36.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.406 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033192.D
Acq: 13 Feb 2019 18:27

Tgt Ion: 95 Resp: 1787224
Ion Ratio Lower Upper
95 100
174 62.8 51.2 76.8
175 4.5 3.8 5.6

