

Data File : VL033689.D
Acq On : 14 May 2019 13:37
Operator : SY/AP
Sample : QC050619 CAN 10324
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC050619 CAN 10324

Quant Time: May 15 02:33:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	840445	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2042277	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1964822	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1605724	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

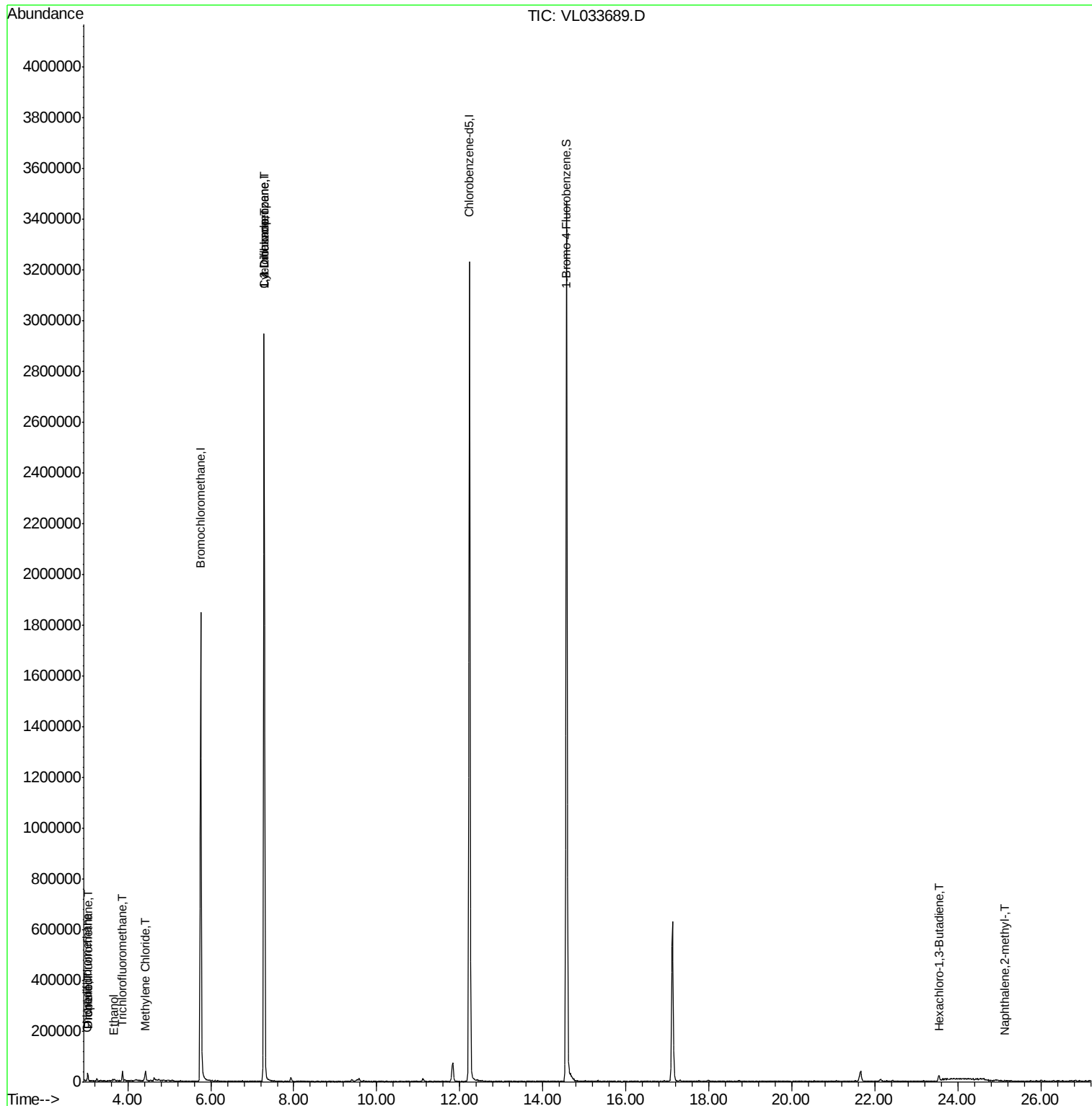
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	3127	0.016	ppbv	99
3) Chlorodifluoromethane	3.02	51	2238	0.018	ppbv	99
9) Propene	3.05	41	1433	0.031	ppbv	96
11) Trichlorofluoromethane	3.88	101	3838	0.021	ppbv	86
13) Ethanol	3.66	45	245	0.018	ppbv #	34
20) Methylene Chloride	4.40	84	883	0.019	ppbv #	85
30) Cyclohexane	7.28	84	3770	0.051	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	531924	7.793	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.53	225	1287	0.010	ppbv #	18
80) Naphthalene,2-methyl-	25.12	142	1925	0.019	ppbv	92

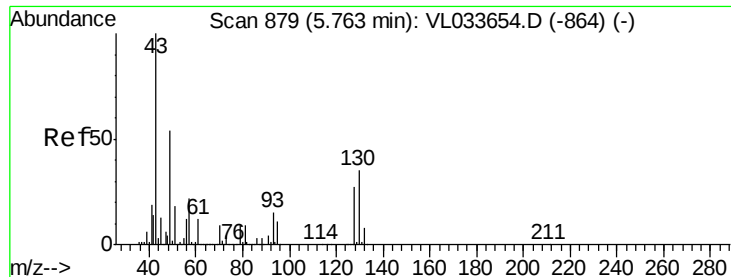
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

QC050619 CAN 10324

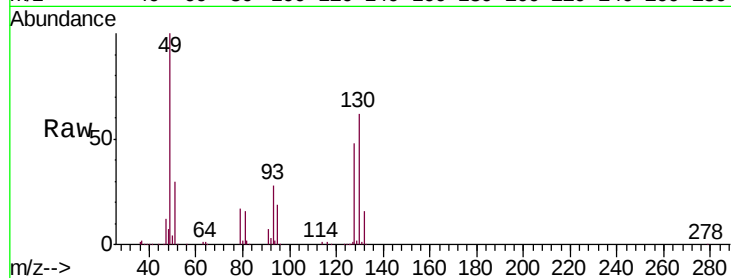
Tgt Ion: 49 Resp: 840445

Ion Ratio Lower Upper

49 100

128 50.1 24.8 74.3

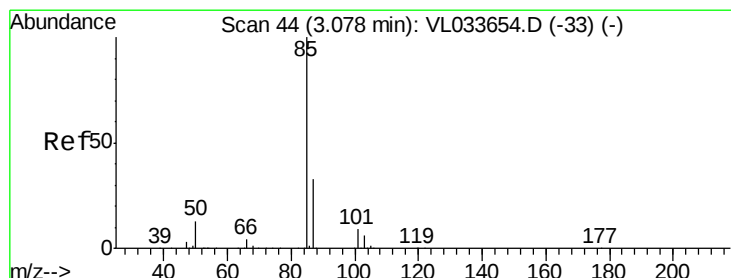
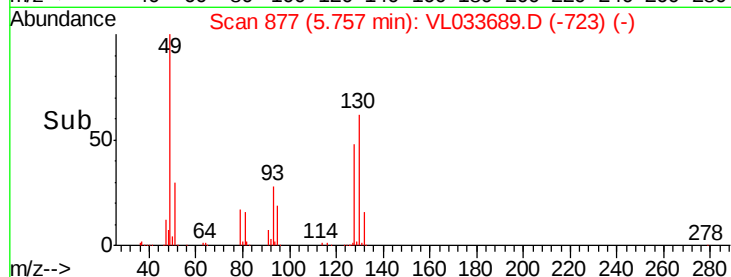
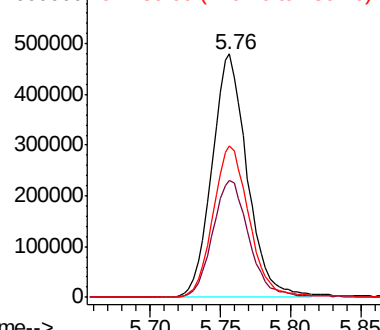
130 64.7 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.016 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.04 min

Lab File: VL033689.D

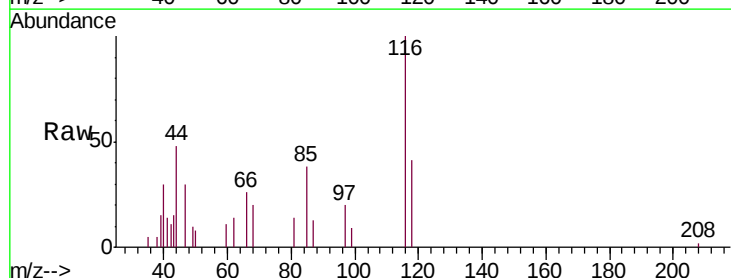
Acq: 14 May 2019 13:37

Tgt Ion: 85 Resp: 3127

Ion Ratio Lower Upper

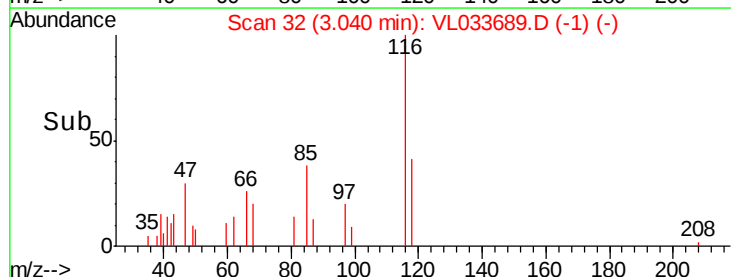
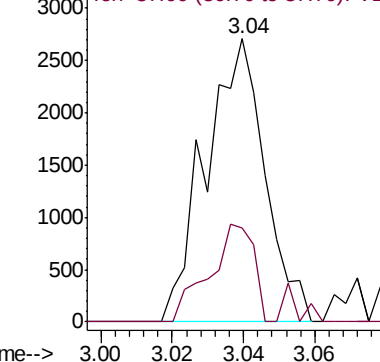
85 100

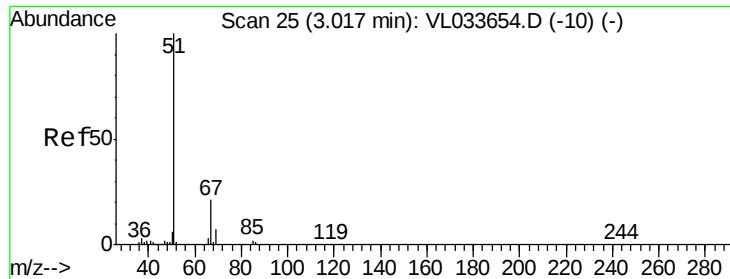
87 33.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.018 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_L

ClientSampleId :

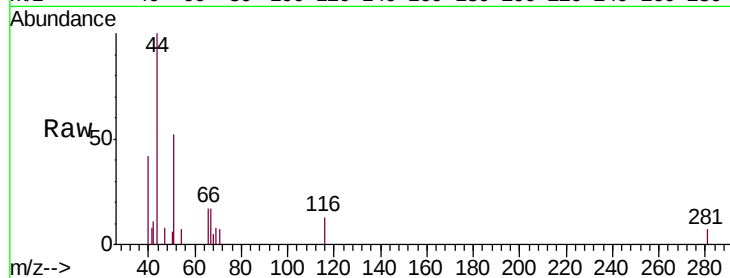
QC050619 CAN 10324

Tgt Ion: 51 Resp: 2238

Ion Ratio Lower Upper

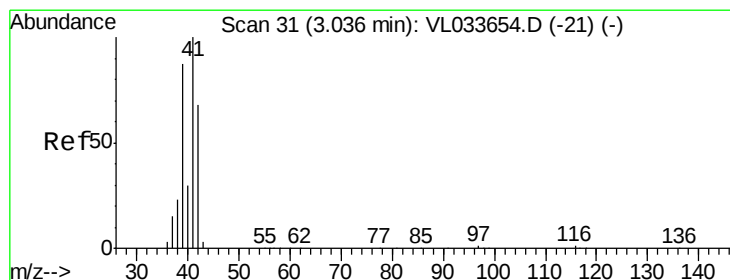
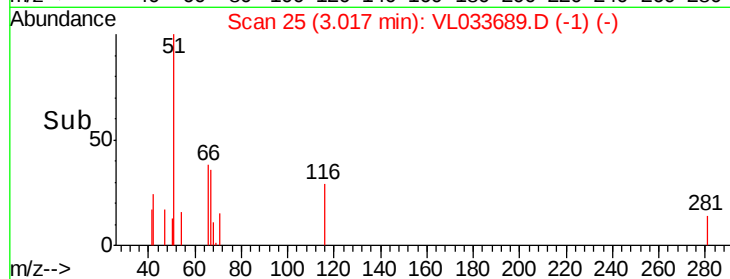
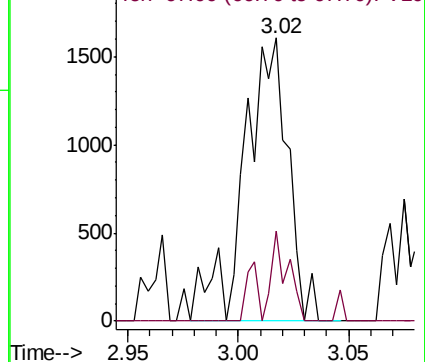
51 100

67 19.0 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.031 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033689.D

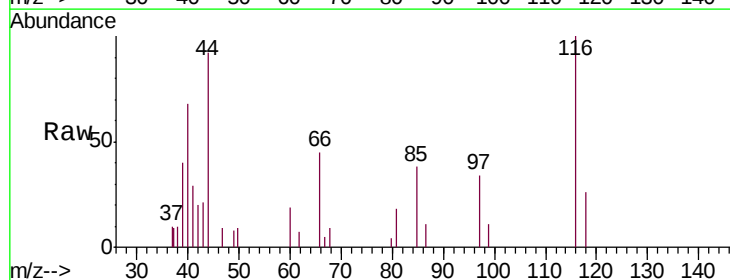
Acq: 14 May 2019 13:37

Tgt Ion: 41 Resp: 1433

Ion Ratio Lower Upper

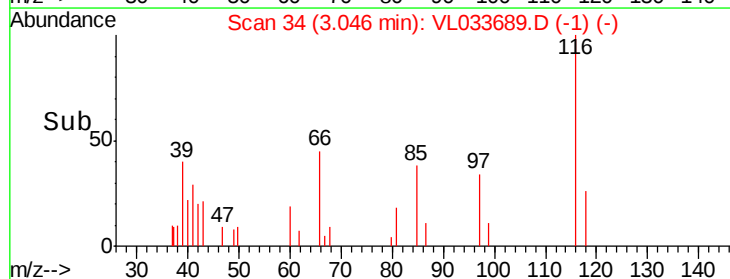
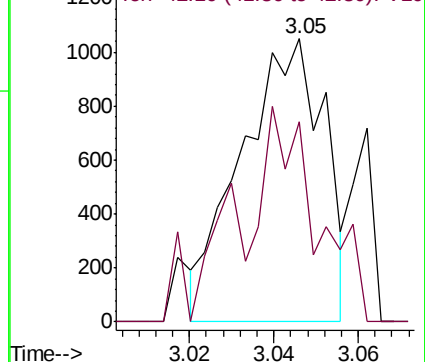
41 100

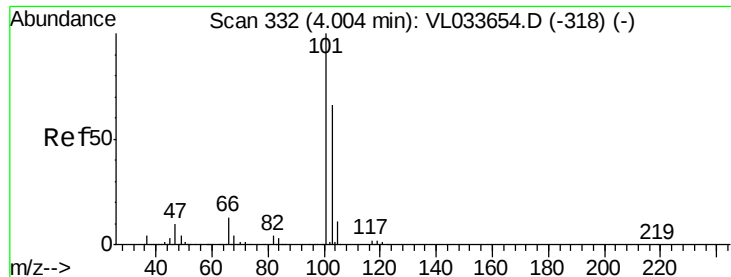
42 72.6 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 3.88 min Scan# 294

Delta R.T. -0.12 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_L

ClientSampleId :

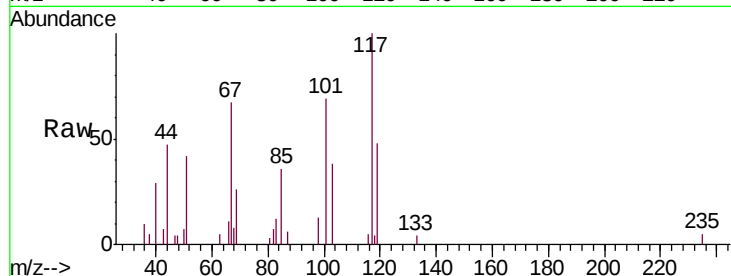
QC050619 CAN 10324

Tgt Ion: 101 Resp: 3838

Ion Ratio Lower Upper

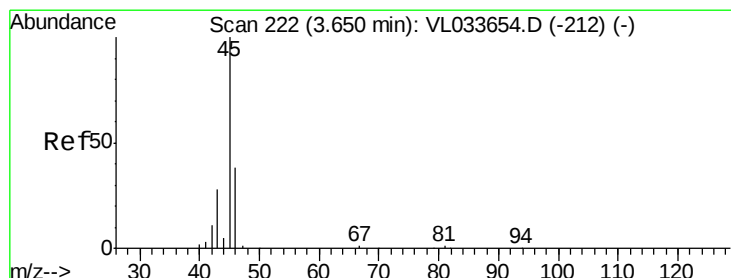
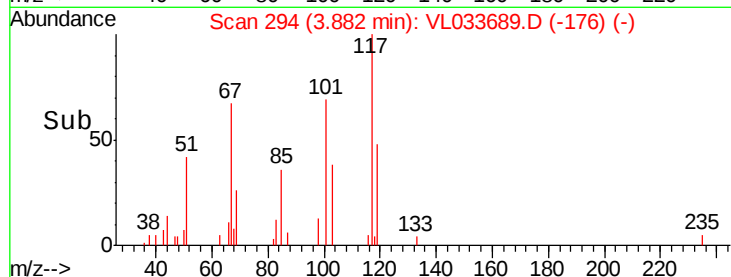
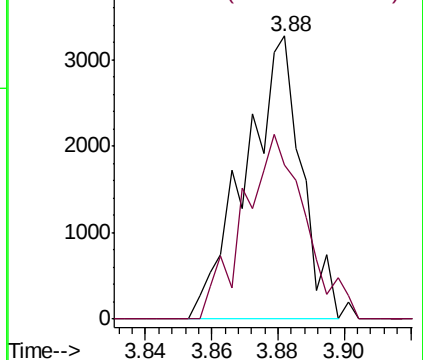
101 100

103 54.4 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.018 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033689.D

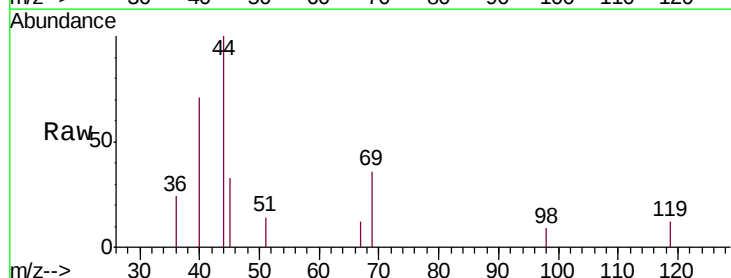
Acq: 14 May 2019 13:37

Tgt Ion: 45 Resp: 245

Ion Ratio Lower Upper

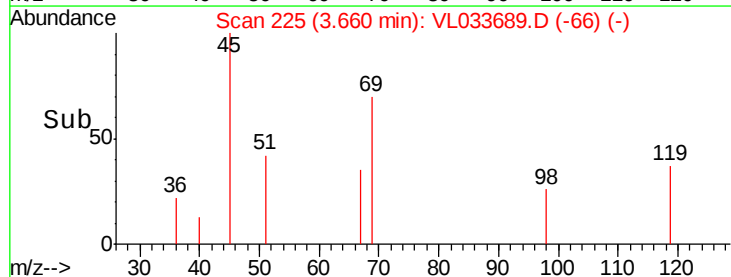
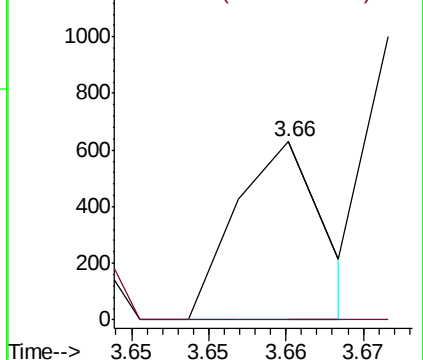
45 100

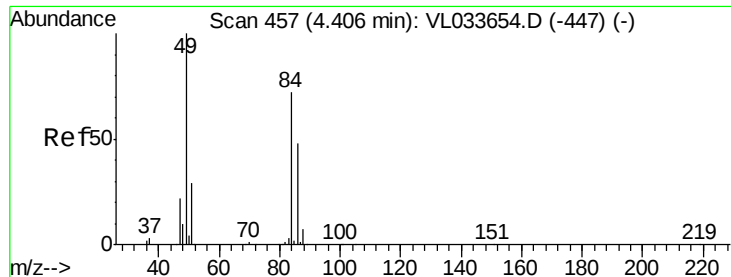
46 76.7 14.9 59.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#20

Methylene Chloride

Concen: 0.019 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_L

ClientSampleId :

QC050619 CAN 10324

Tgt Ion: 84 Resp: 883

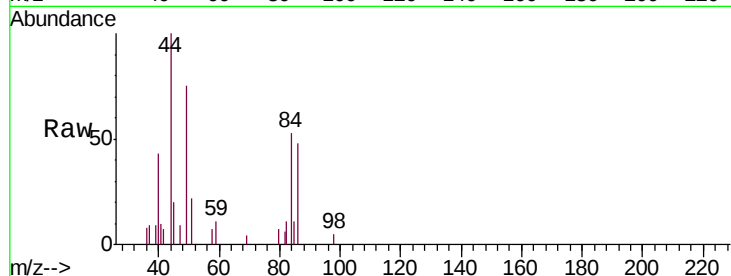
Ion Ratio Lower Upper

84 100

49 140.4 111.8 167.6

51 12.6 32.3 48.5#

86 89.8 53.9 80.9#

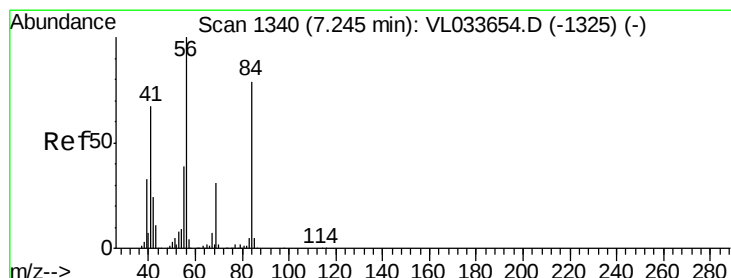
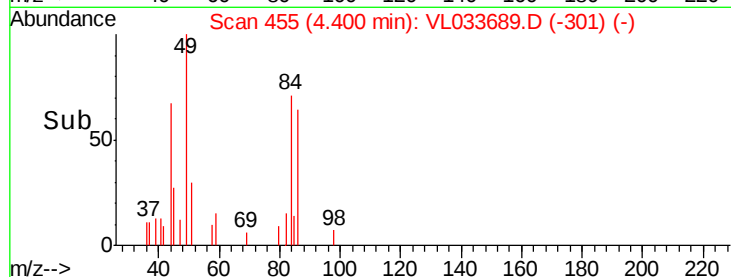
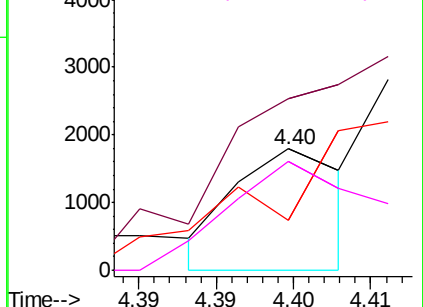


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#30

Cyclohexane

Concen: 0.051 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. 0.03 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

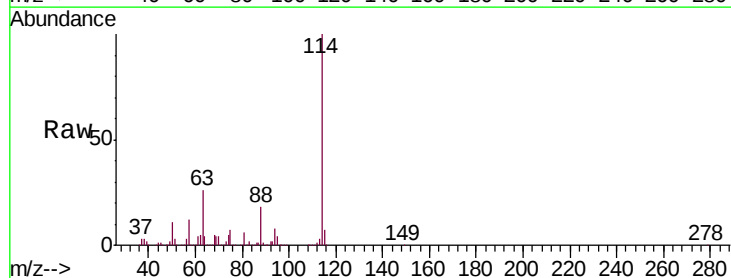
Tgt Ion: 84 Resp: 3770

Ion Ratio Lower Upper

84 100

56 0.0 107.0 160.4#

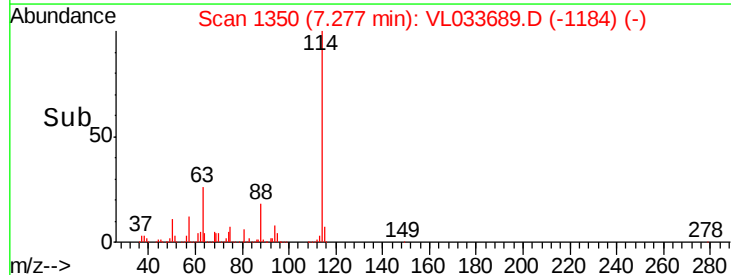
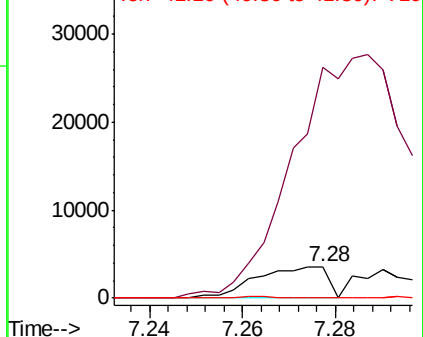
41 0.0 66.6 99.8#

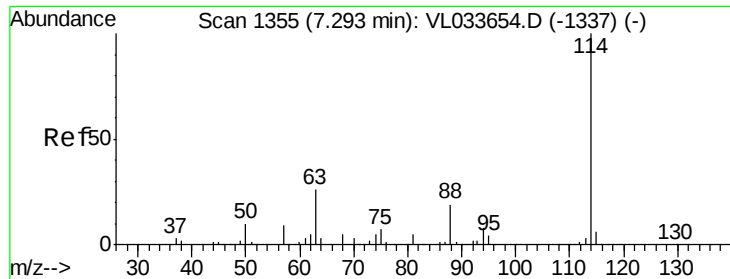


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

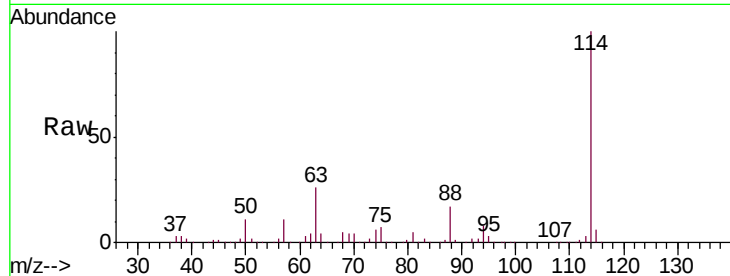




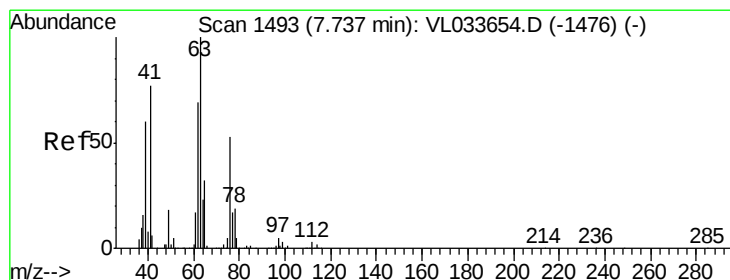
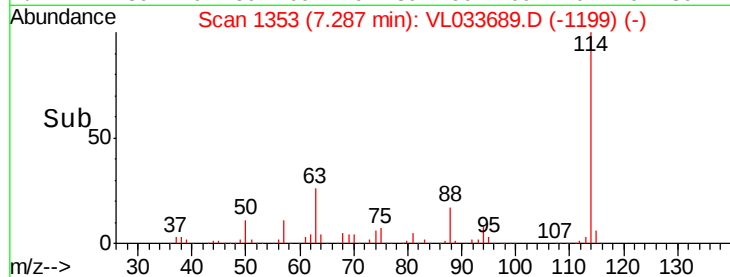
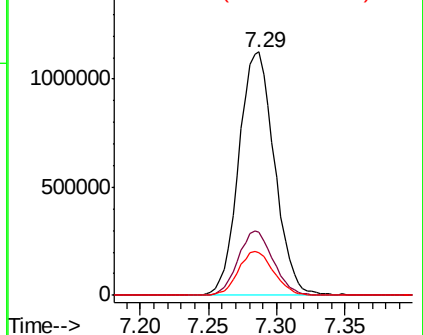
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033689.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_L
 ClientSampleId :
 QC050619 CAN 10324

Tgt Ion: 114 Resp: 2042277
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.3 31.9
 88 18.1 14.4 21.6

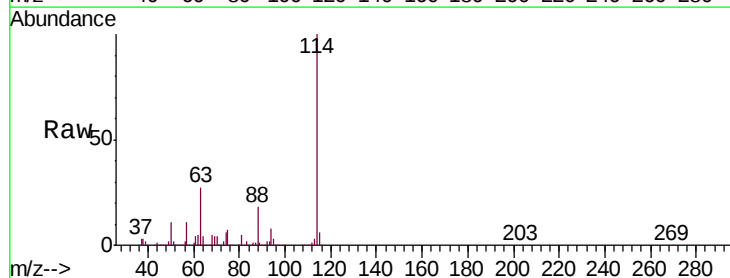


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

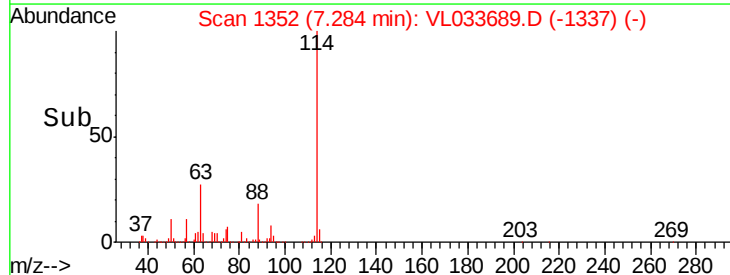
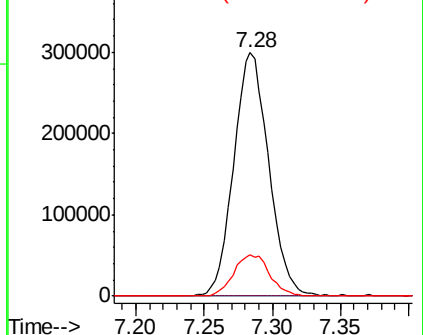


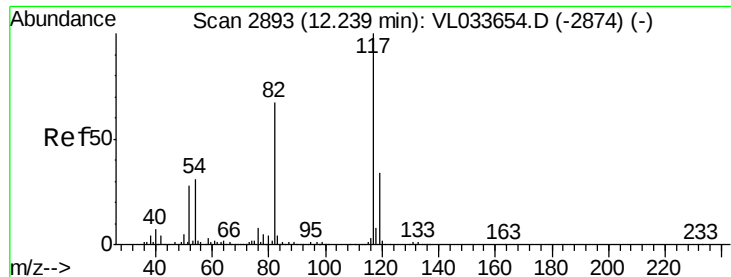
#39
 1,2-Dichloropropane
 Concen: 7.793 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.45 min
 Lab File: VL033689.D
 Acq: 14 May 2019 13:37

Tgt Ion: 63 Resp: 531924
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.6 92.4#
 62 17.0 55.0 82.6#



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

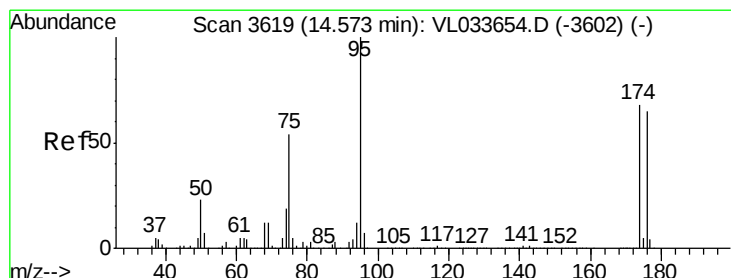
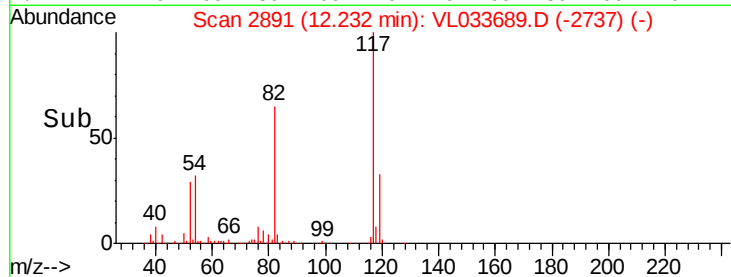
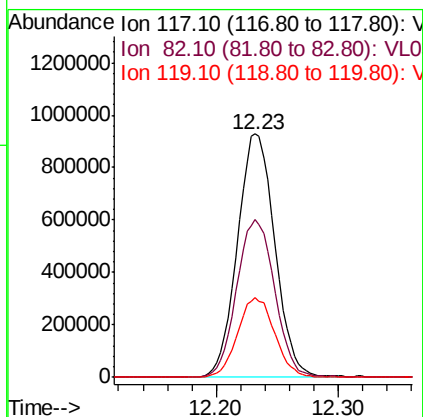
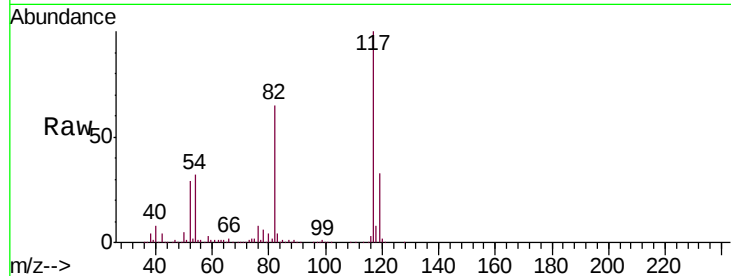




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033689.D
Acq: 14 May 2019 13:37

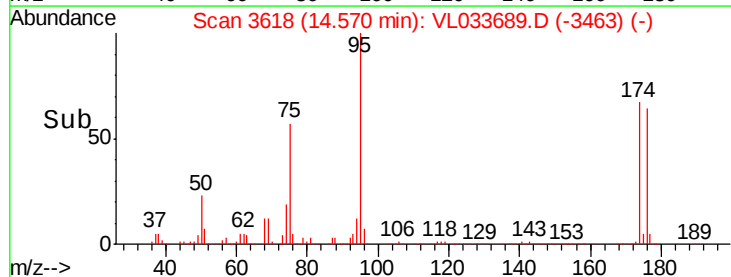
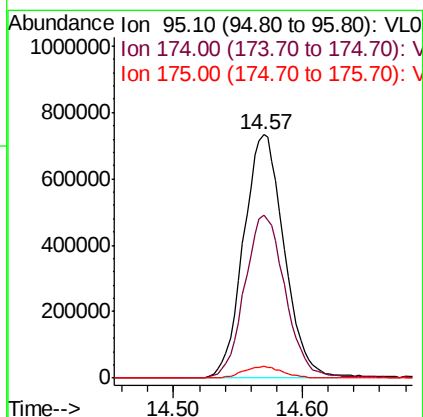
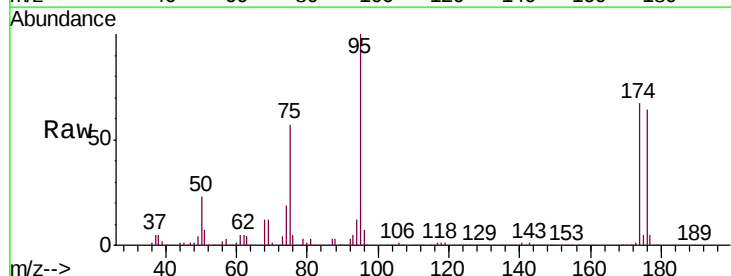
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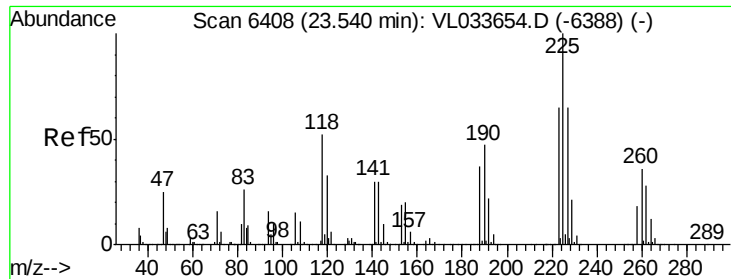
Tgt Ion: 117 Resp: 1964822
Ion Ratio Lower Upper
117 100
82 66.6 49.7 74.5
119 32.6 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL033689.D
Acq: 14 May 2019 13:37

Tgt Ion: 95 Resp: 1605724
Ion Ratio Lower Upper
95 100
174 67.4 54.0 81.0
175 4.8 3.8 5.8





#78

Hexachloro-1,3-Butadiene

Concen: 0.010 ppbv

RT: 23.53 min Scan# 6404

Delta R.T. -0.01 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_L

ClientSampleId :

QC050619 CAN 10324

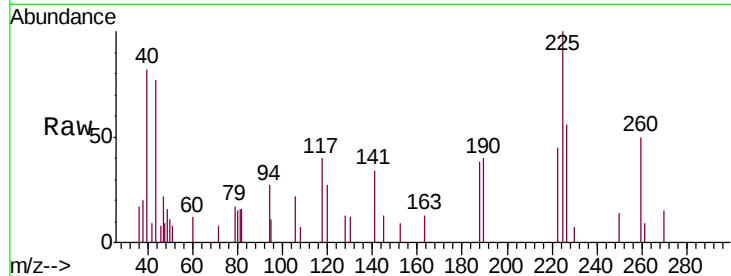
Tgt Ion:225 Resp: 1287

Ion Ratio Lower Upper

225 100

223 0.0 50.7 76.1#

227 0.0 51.4 77.2#

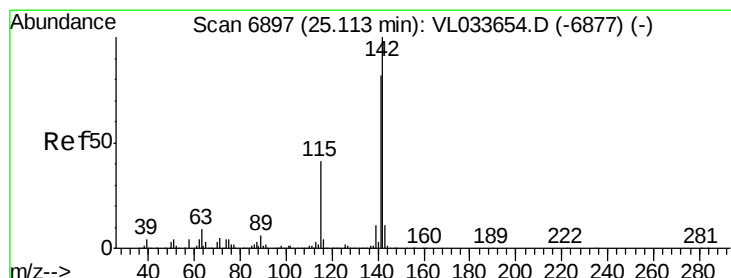
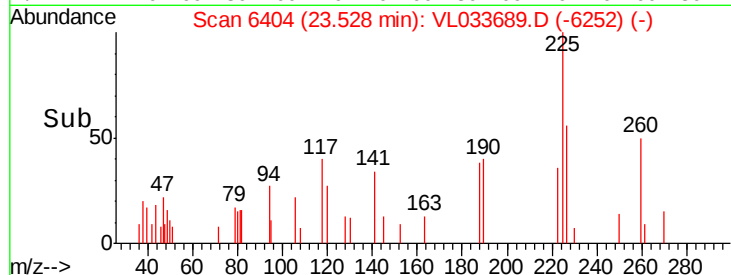
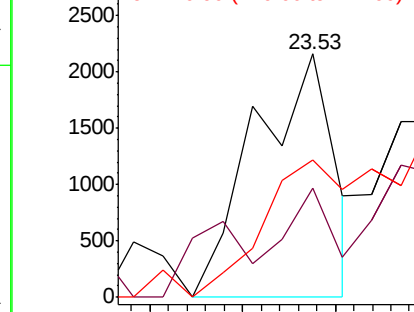


Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#80

Naphthalene, 2-methyl-

Concen: 0.019 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL033689.D

Acq: 14 May 2019 13:37

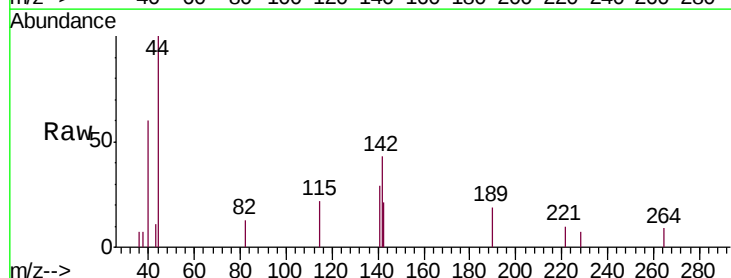
Tgt Ion:142 Resp: 1925

Ion Ratio Lower Upper

142 100

141 95.1 67.9 101.9

115 43.1 34.2 51.4



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

