

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032409.D
 Acq On : 20 Aug 2018 18:00
 Operator : SY/AP
 Sample : OC080818 CAN 10257
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 21 01:42:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1857905	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3481567	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3408508	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2574346	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

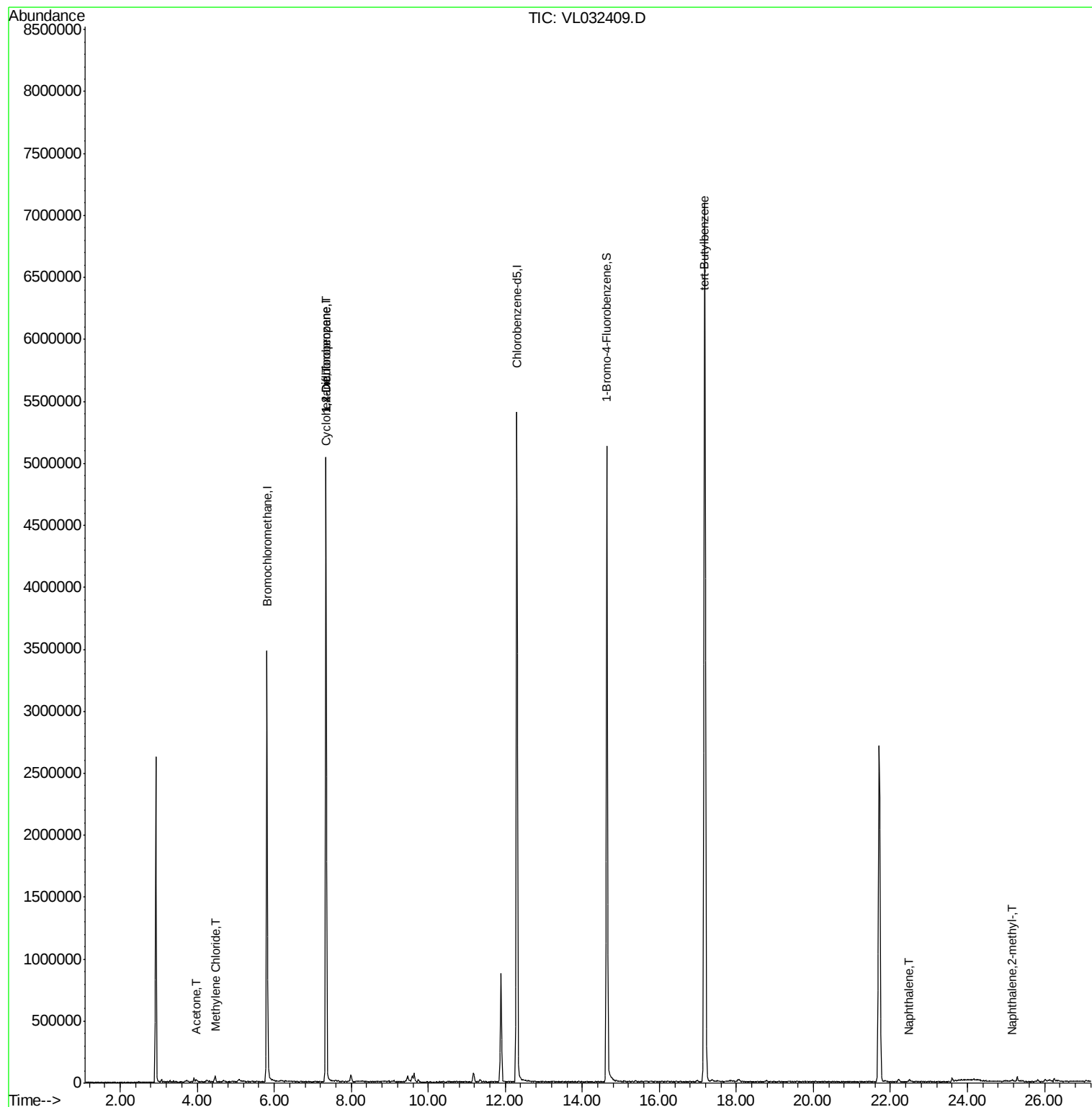
Target Compounds	R.T.	QIon	Response	Ovalue
2) Dichlorodifluoromethane	3.11	85	339	Below Cal # 42
15) Acetone	3.97	43	19833	0.112 ppbv # 88
20) Methylene Chloride	4.46	84	6837	0.103 ppbv # 69
30) Cyclohexane	7.33	84	6262	0.049 ppbv # 1
39) 1,2-Dichloropropane	7.34	63	961075	7.795 ppbv # 25
65) tert-Butylbenzene	17.16	119	49794	0.120 ppbv # 18
79) Naphthalene	22.47	128	3227	0.336 ppbv # 69
80) Naphthalene,2-methyl-	25.17	142	3546	0.045 ppbv 94

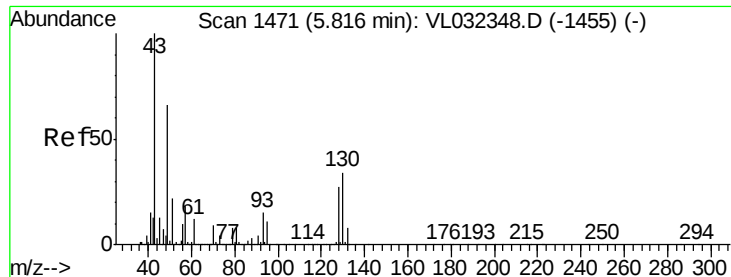
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032409.D

Acq: 20 Aug 2018 18:00

Instrument :

MSVOA_L

ClientSampled :

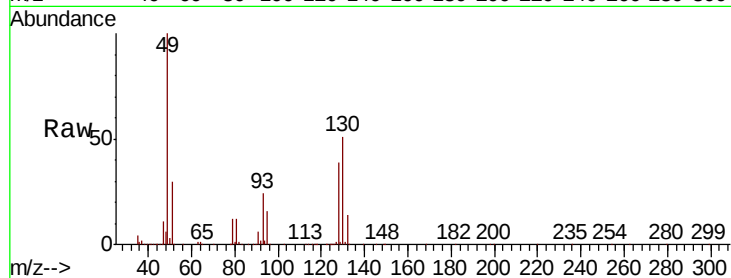
Tot Ion: 49 Resp: 1857905

Ion Ratio Lower Upper

49 100

128 41.0 20.5 61.6

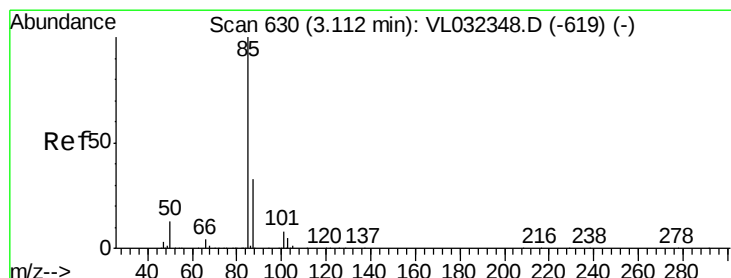
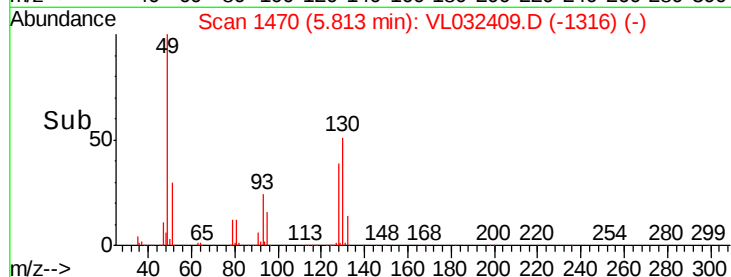
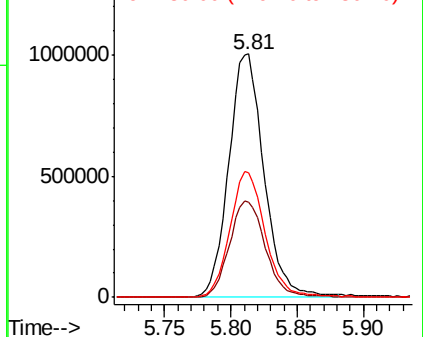
130 52.4 26.2 78.5



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: Below Cal

RT: 3.11 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL032409.D

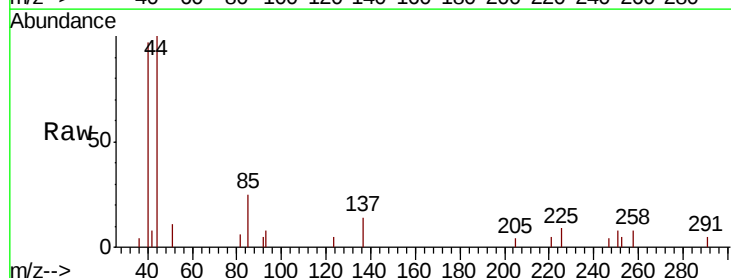
Acq: 20 Aug 2018 18:00

Tgt Ion: 85 Resp: 339

Ion Ratio Lower Upper

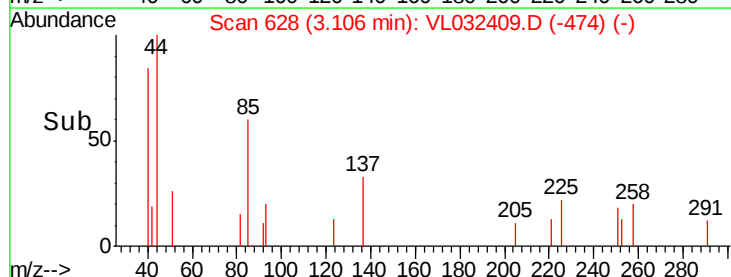
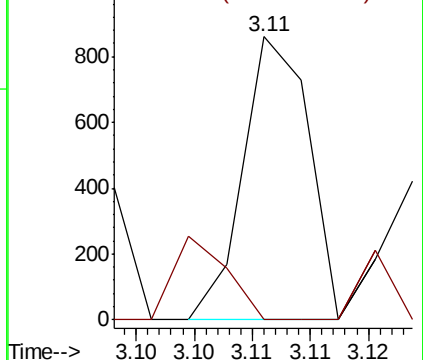
85 100

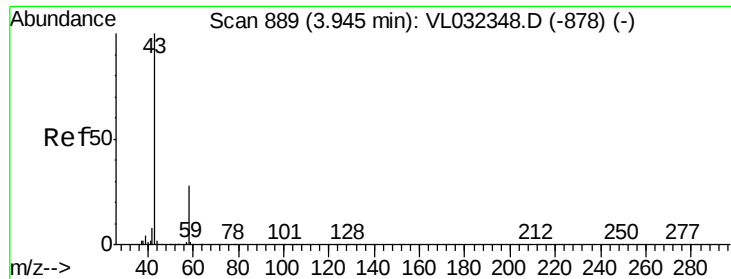
87 0.0 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#15

Acetone

Concen: 0.112 ppbv

RT: 3.97 min Scan# 897

Delta R.T. 0.03 min

Lab File: VL032409.D

Acq: 20 Aug 2018 18:00

Instrument :

MSVOA_L

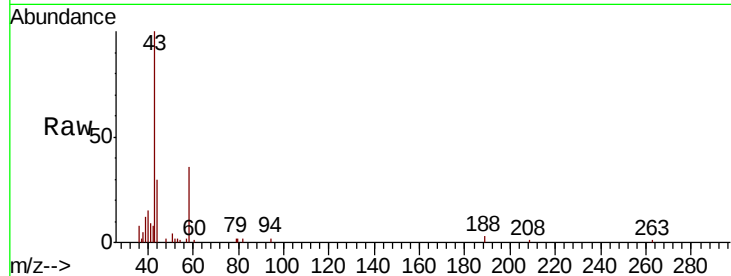
ClientSampleId :

Tot Ion: 43 Resp: 19833

Ion Ratio Lower Upper

43 100

58 34.3 22.4 33.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

15000

10000

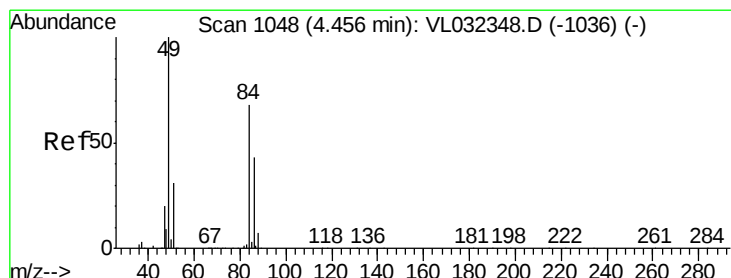
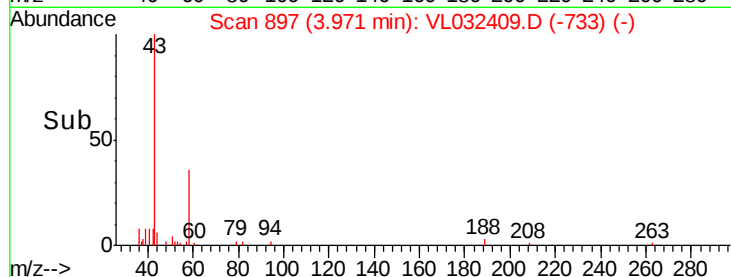
5000

0

Time-->

3.95

4.00



#20

Methylene Chloride

Concen: 0.103 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VL032409.D

Acq: 20 Aug 2018 18:00

Tgt Ion: 84 Resp: 6837

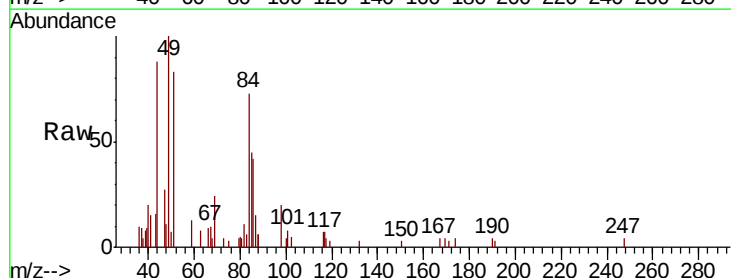
Ion Ratio Lower Upper

84 100

49 125.1 117.3 175.9

51 111.5 36.6 55.0#

86 51.8 49.8 74.8



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

12000

10000

8000

6000

4000

2000

0

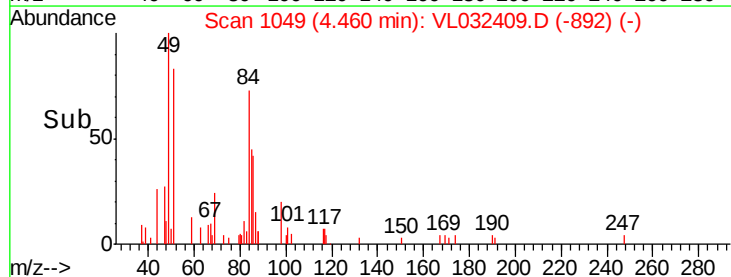
Time-->

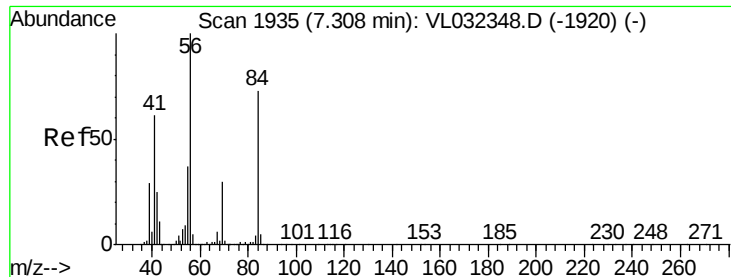
4.42

4.44

4.46

4.48

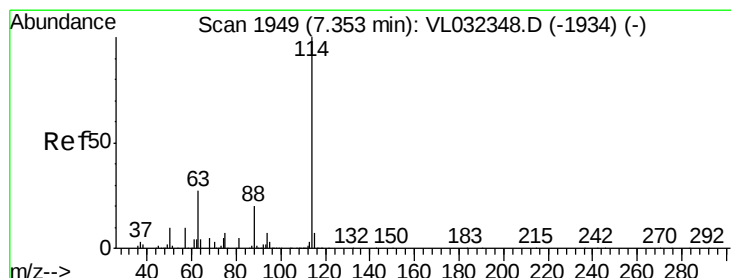
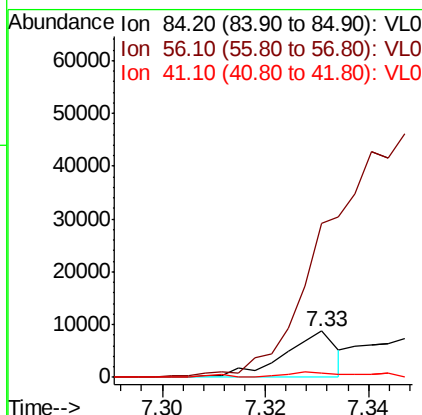
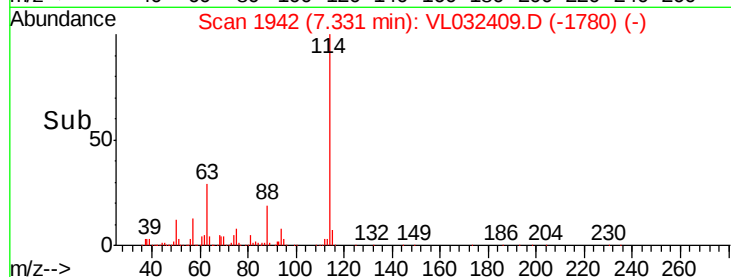
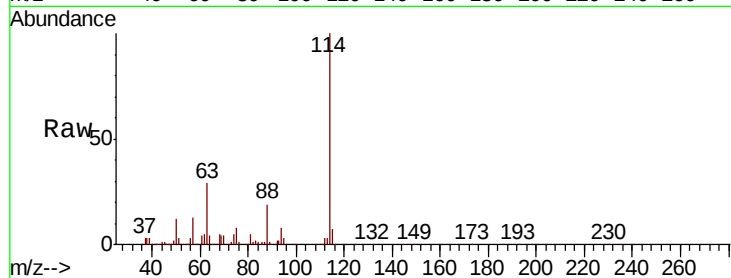




#30
Cvclohexane
Concen: 0.049 ppbv
RT: 7.33 min Scan# 1942
Delta R.T. 0.02 min
Lab File: VL032409.D
Acq: 20 Aug 2018 18:00

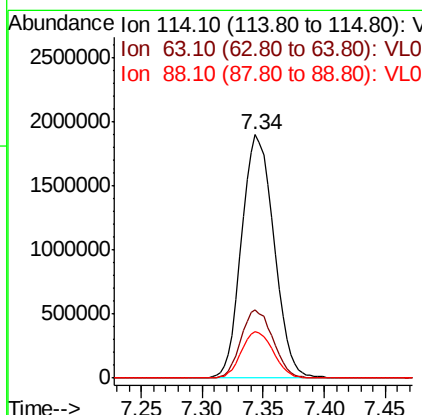
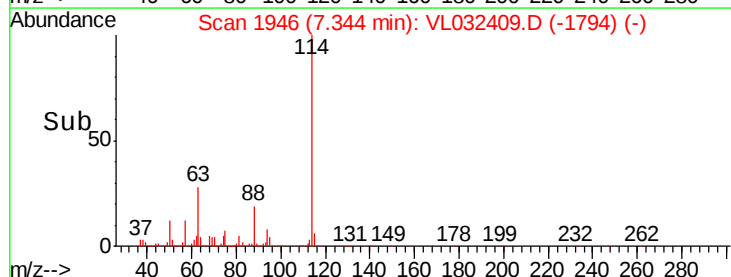
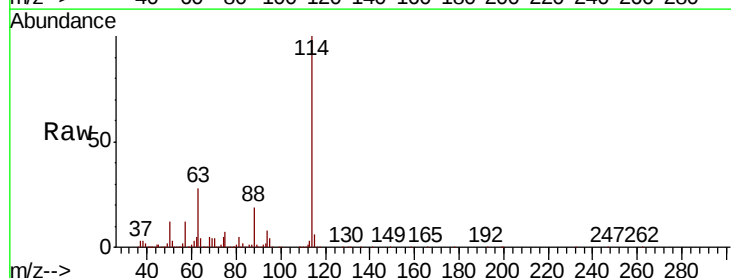
Instrument :
MSVOA_L
ClientSampleId :

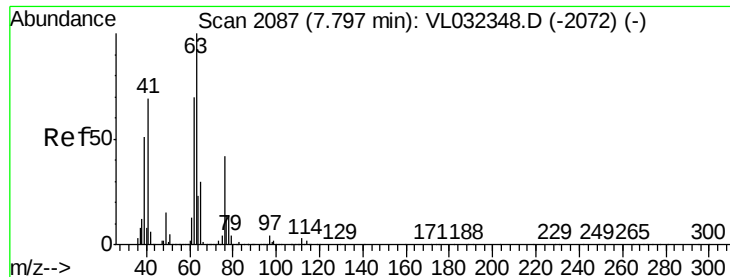
Tot Ion: 84 Resp: 6262
Ion Ratio Lower Upper
84 100
56 0.0 115.7 173.5#
41 22.0 67.9 101.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.01 min
Lab File: VL032409.D
Acq: 20 Aug 2018 18:00

Tgt Ion: 114 Resp: 3481567
Ion Ratio Lower Upper
114 100
63 27.8 22.0 33.0
88 18.9 15.3 22.9

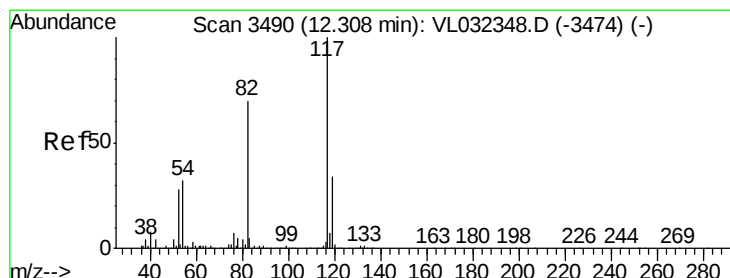
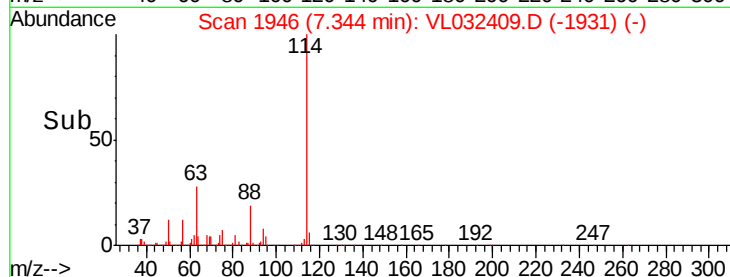
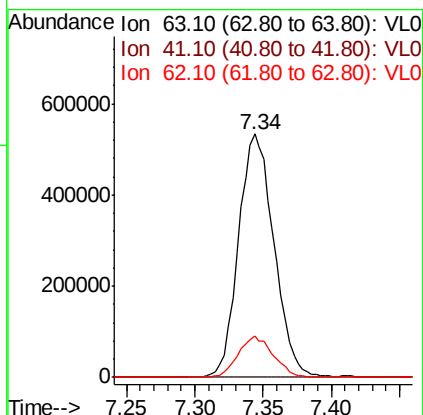
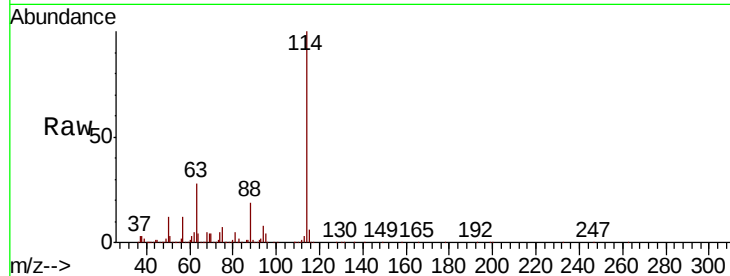




#39
 1,2-Dichloropropane
 Concen: 7.795 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.45 min
 Lab File: VL032409.D
 Acq: 20 Aug 2018 18:00

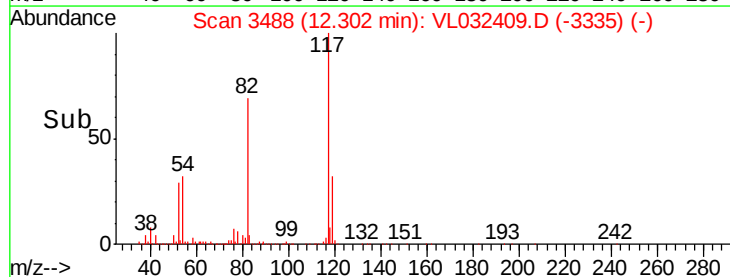
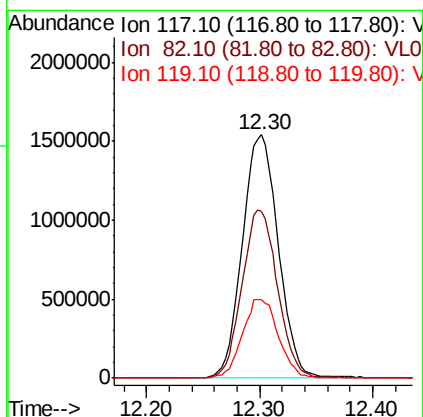
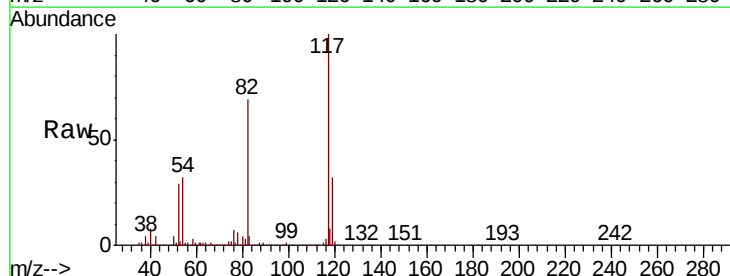
Instrument :
 MSVOA_L
 ClientSampleId :

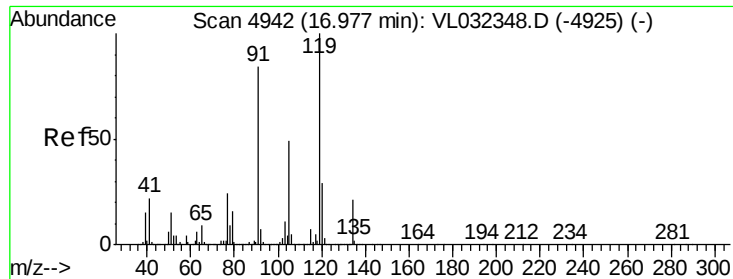
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	55.5	83.3#
62	17.2	56.3	84.5#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.30 min Scan# 3488
 Delta R.T. -0.01 min
 Lab File: VL032409.D
 Acq: 20 Aug 2018 18:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.8	55.1	82.7
119	32.6	46.0	69.0#

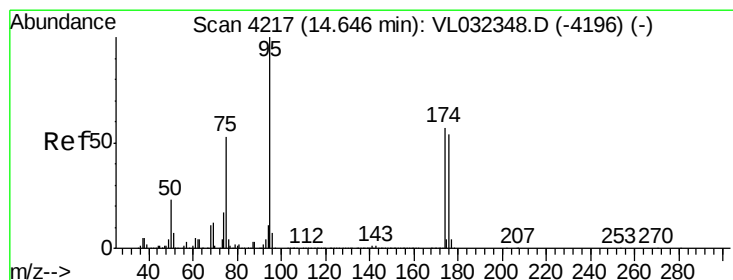
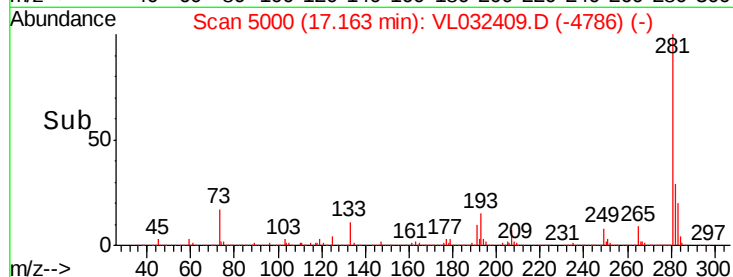
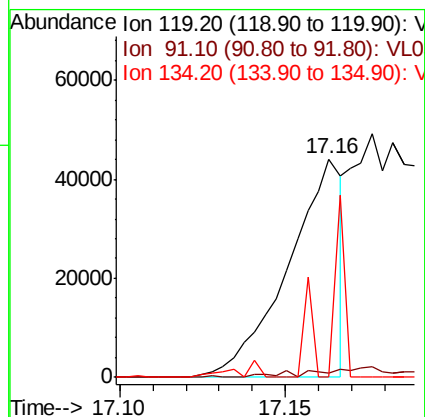
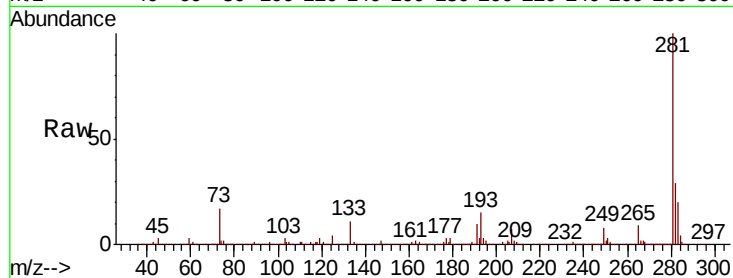




#65
 tert-Butylbenzene
 Concen: 0.120 ppbv
 RT: 17.16 min Scan# 5000
 Delta R.T. 0.19 min
 Lab File: VL032409.D
 Acq: 20 Aug 2018 18:00

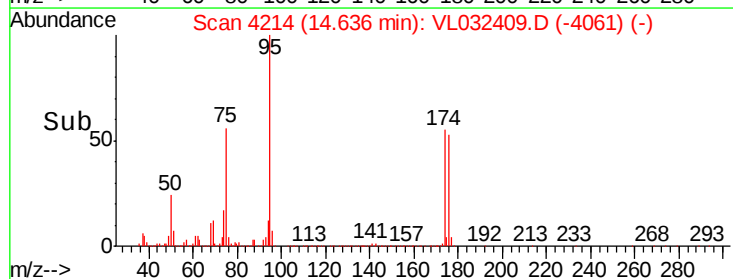
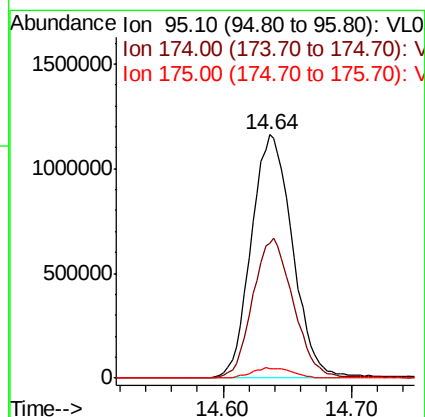
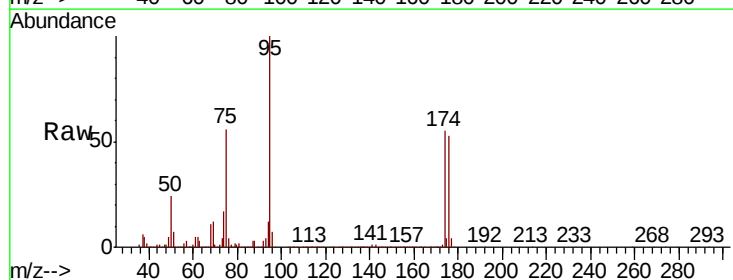
Instrument :
 MSVOA_L
 ClientSampleId :

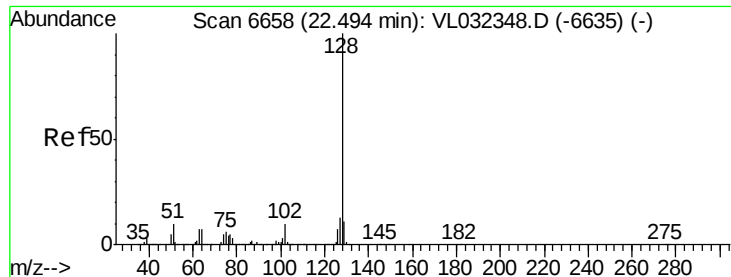
Tot Ion:119 Resp: 49794
 Ion Ratio Lower Upper
 119 100
 91 0.3 67.4 101.0#
 134 3.3 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.900 ppbv
 RT: 14.64 min Scan# 4214
 Delta R.T. -0.01 min
 Lab File: VL032409.D
 Acq: 20 Aug 2018 18:00

Tgt Ion: 95 Resp: 2574346
 Ion Ratio Lower Upper
 95 100
 174 57.9 46.2 69.4
 175 4.3 3.4 5.0





#79

Naphthalene

Concen: 0.336 ppbv

RT: 22.47 min Scan# 6652

Delta R.T. -0.02 min

Lab File: VL032409.D

Acq: 20 Aug 2018 18:00

Instrument :

MSVOA_L

ClientSampleId :

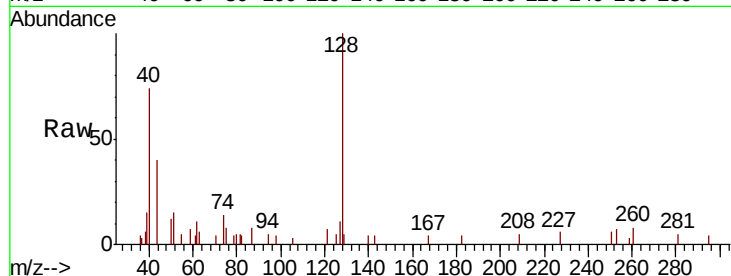
Tot Ion:128 Resp: 3227

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

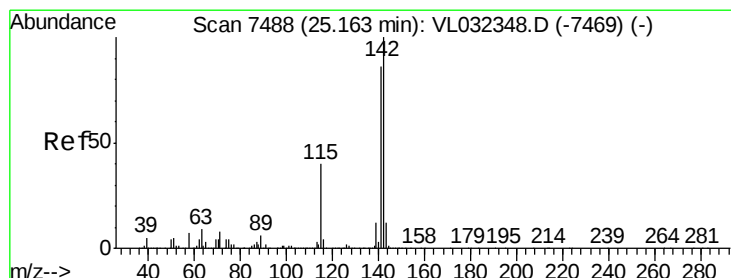
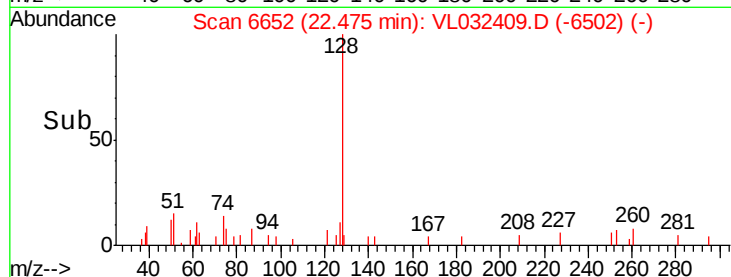
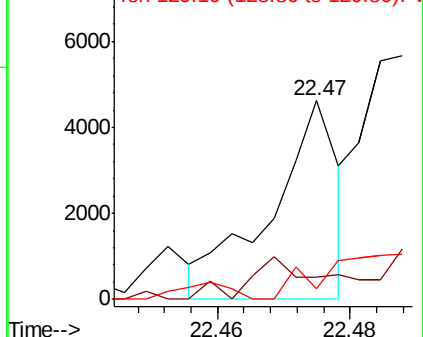
129 0.0 8.6 13.0#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.045 ppbv

RT: 25.17 min Scan# 7491

Delta R.T. 0.01 min

Lab File: VL032409.D

Acq: 20 Aug 2018 18:00

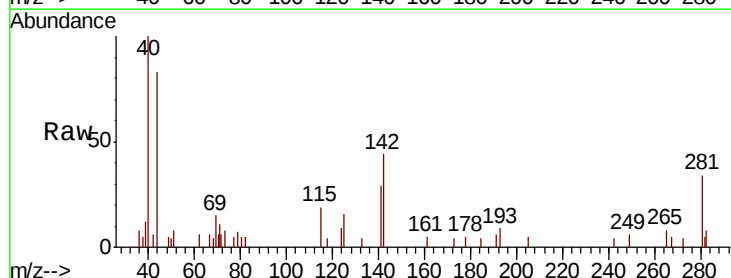
Tgt Ion:142 Resp: 3546

Ion Ratio Lower Upper

142 100

141 91.0 66.7 100.1

115 39.6 31.0 46.6



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

