

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032592.D
 Acq On : 3 Oct 2018 23:13
 Operator : SY/AP
 Sample : J5094-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 04 09:57:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1006957	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2565661	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2803696	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	1972195	9.33	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

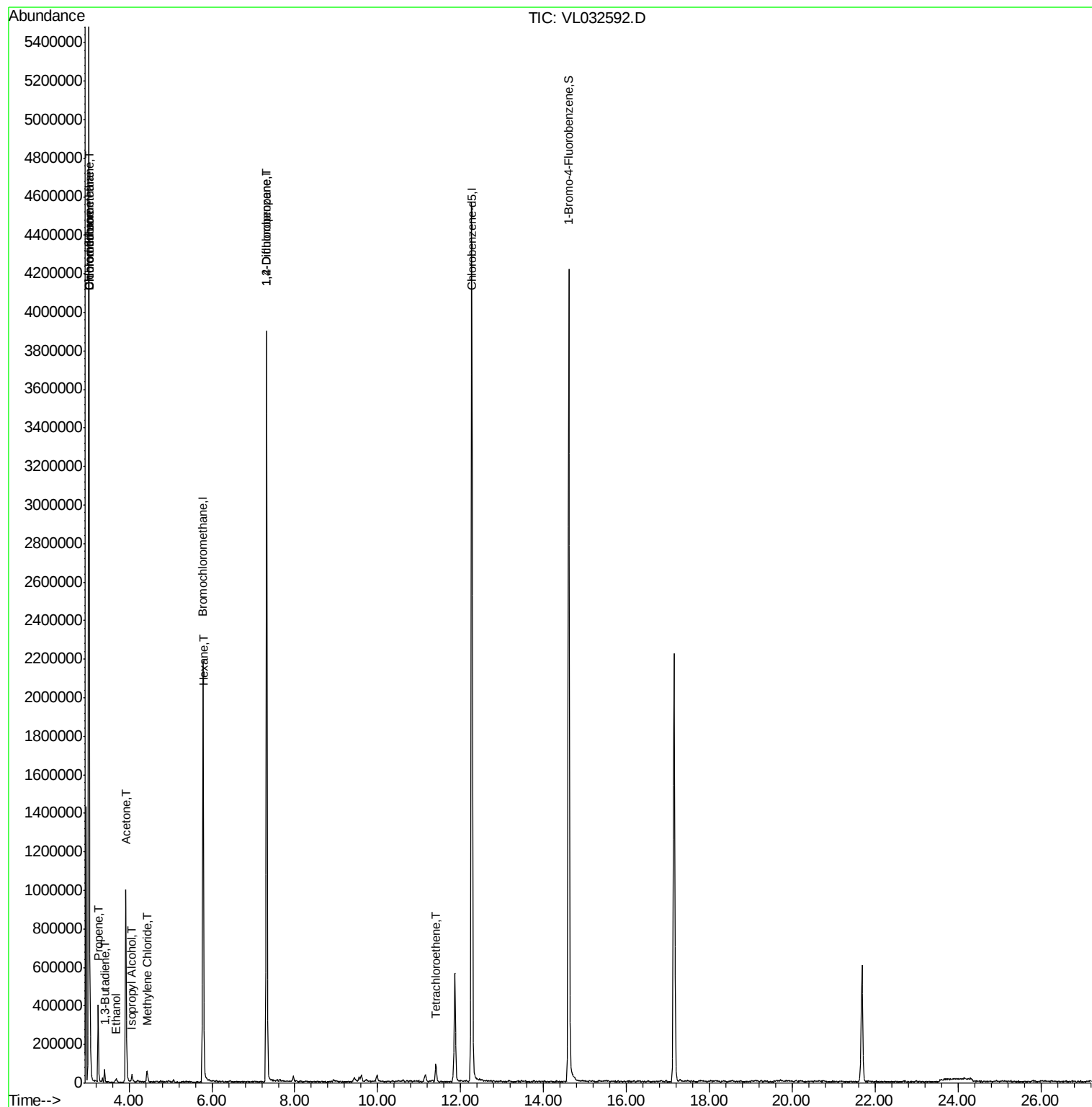
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	136781	1.469	ppbv	100
3) Chlorodifluoromethane	3.03	51	7659681	91.472	ppbv	92
4) Chloromethane	3.03	50	507359	10.391	ppbv #	78
9) Propene	3.26	41	107935	2.971	ppbv	90
13) Ethanol	3.69	45	13301	1.218	ppbv	95
15) Acetone	3.92	43	1021135	11.553	ppbv	99
16) 1,3-Butadiene	3.41	39	7518	0.210	ppbv #	8
19) Isopropyl Alcohol	4.07	45	36471	0.592	ppbv #	93
20) Methylene Chloride	4.44	84	17455	0.408	ppbv #	95
26) Hexane	5.80	57	5869	0.061	ppbv #	43
39) 1,2-Dichloropropane	7.32	63	697150	7.461	ppbv #	26
52) Tetrachloroethene	11.41	164	20743	0.287	ppbv	94

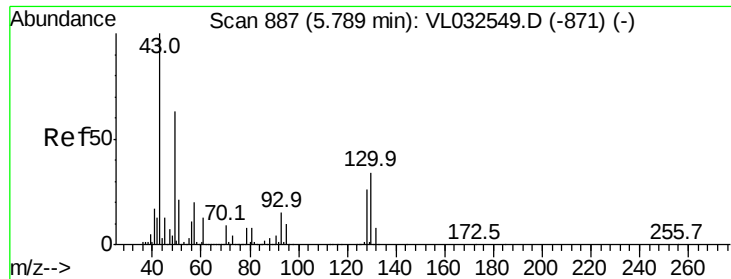
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :

Quant Time: Oct 04 09:57:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Instrument :
MSVOA_L
ClientSampleId :

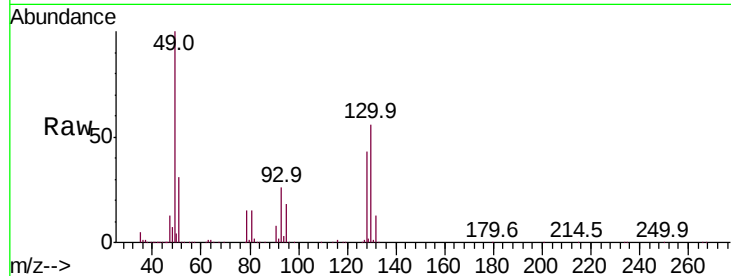
Tot Ion: 49 Resp: 1006957

Ion Ratio Lower Upper

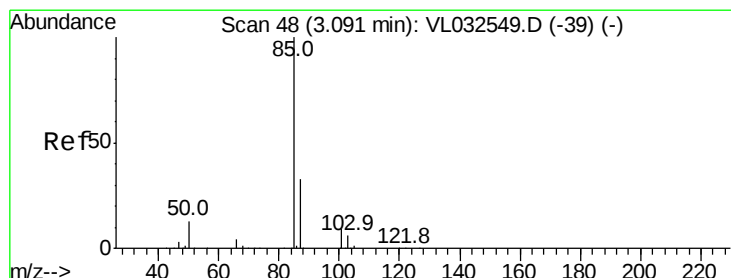
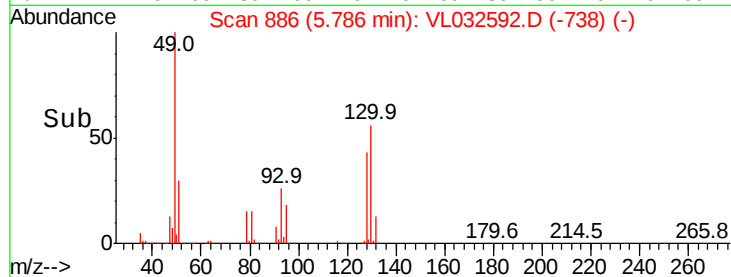
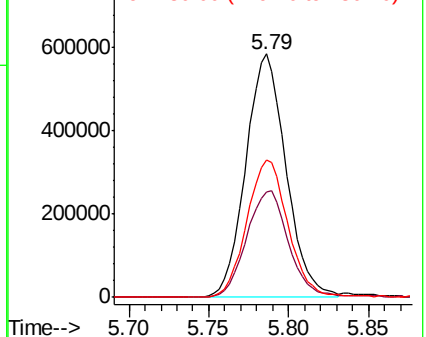
49 100

128 46.2 20.7 62.1

130 58.7 26.6 79.7



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: 1.469 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.08 min

Lab File: VL032592.D

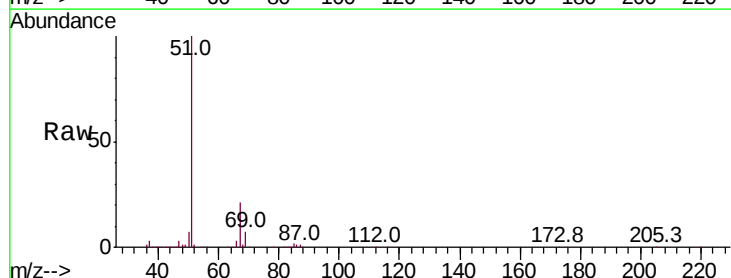
Acq: 3 Oct 2018 23:13

Tgt Ion: 85 Resp: 136781

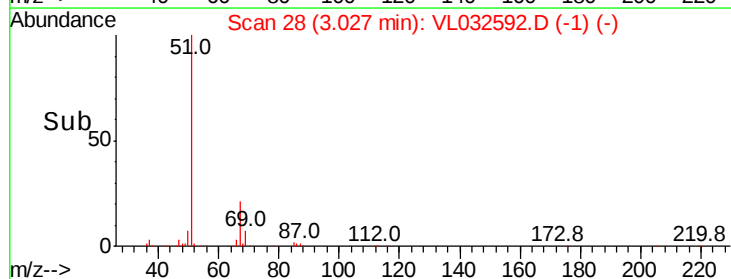
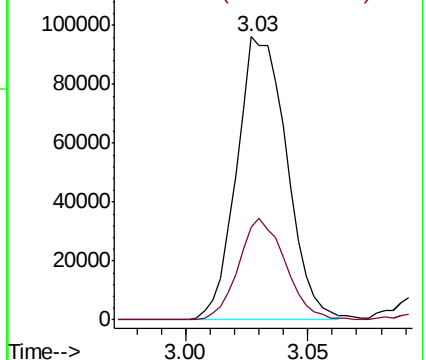
Ion Ratio Lower Upper

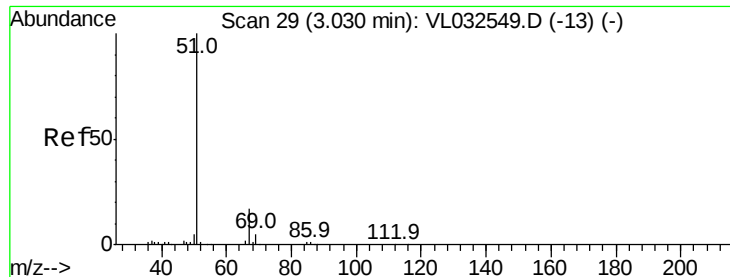
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 91.472 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

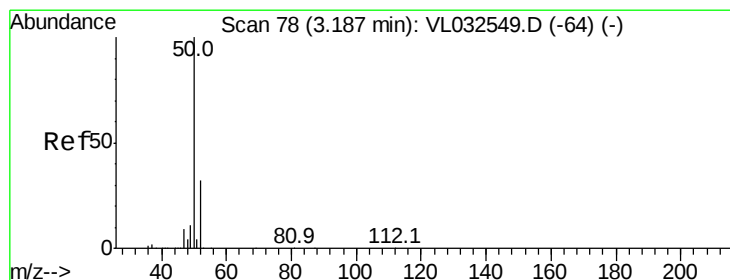
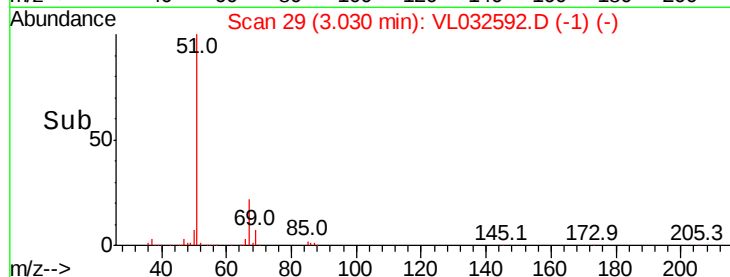
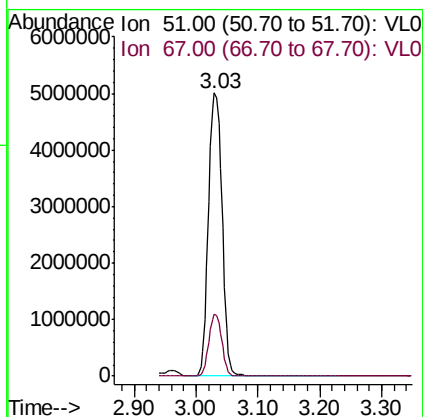
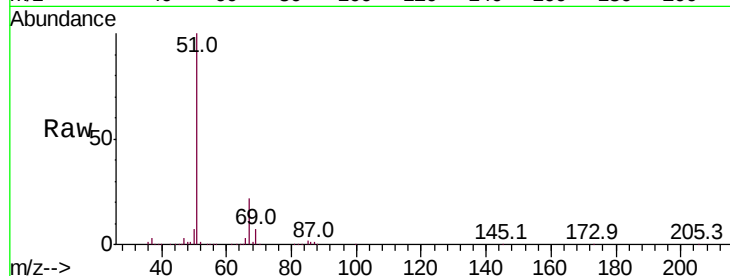
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 51 Resp: 7659681

Ion Ratio Lower Upper

51 100

67 20.7 13.8 20.8



#4

Chloromethane

Concen: 10.391 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.17 min

Lab File: VL032592.D

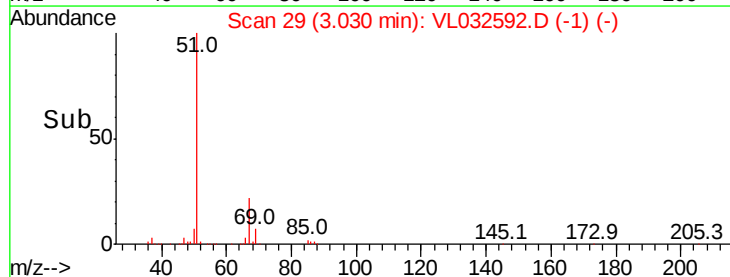
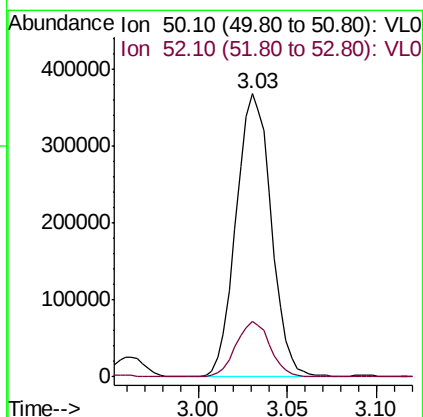
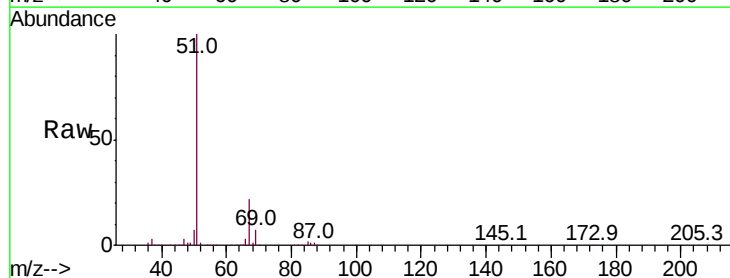
Acq: 3 Oct 2018 23:13

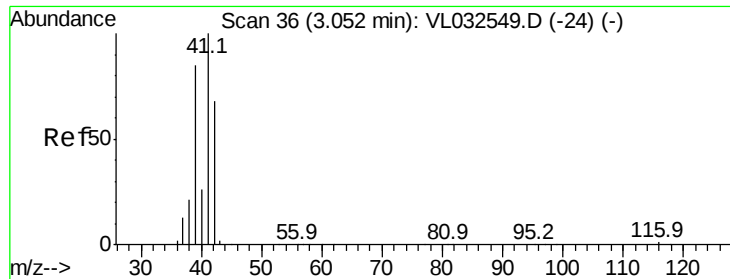
Tgt Ion: 50 Resp: 507359

Ion Ratio Lower Upper

50 100

52 19.7 25.6 38.4#





#9

Propene

Concen: 2.971 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Instrument :

MSVOA_L

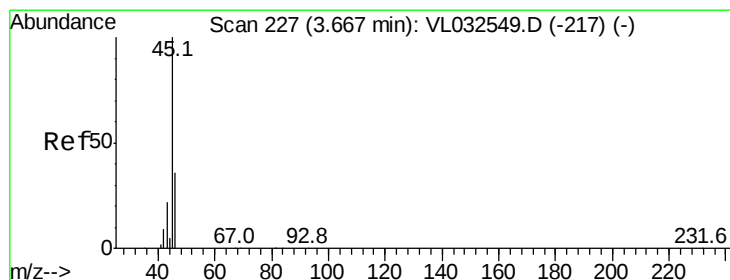
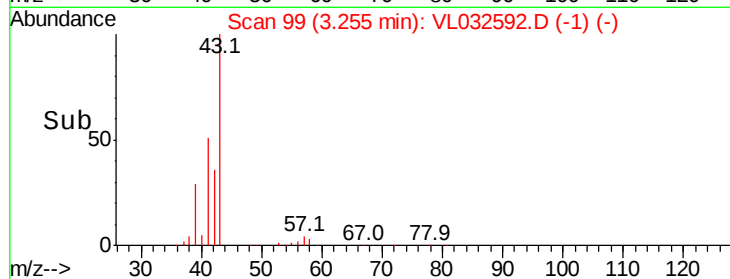
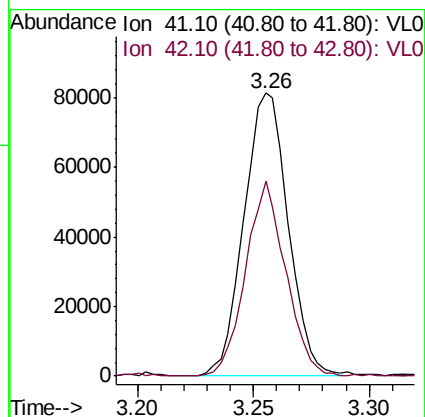
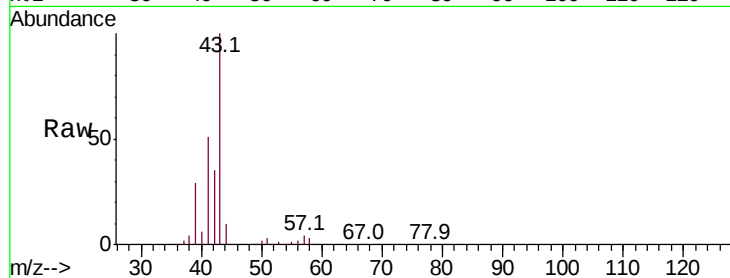
ClientSampleId :

Tot Ion: 41 Resp: 107935

Ion Ratio Lower Upper

41 100

42 62.5 56.6 84.8



#13

Ethanol

Concen: 1.218 ppbv

RT: 3.69 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL032592.D

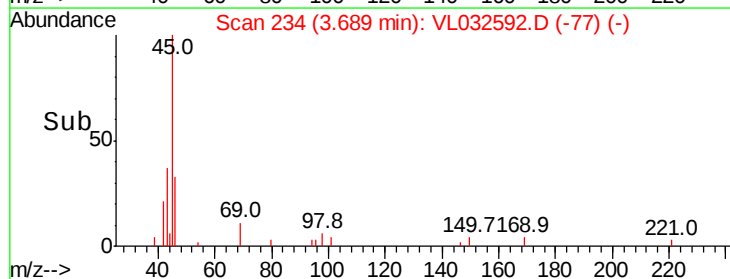
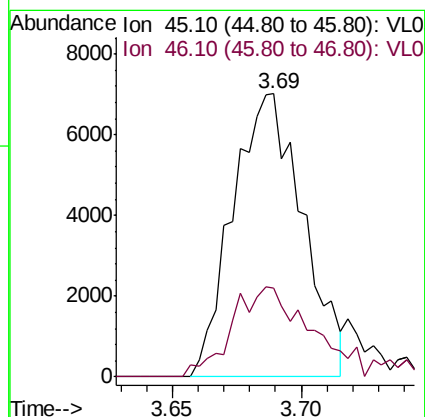
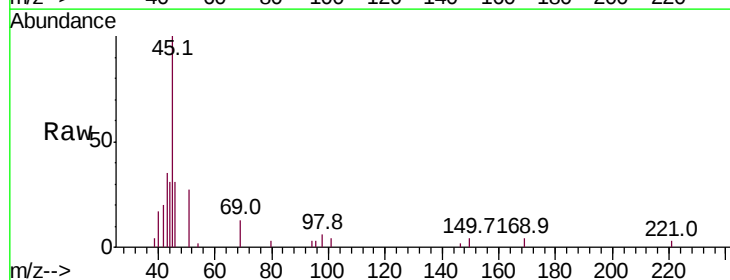
Acq: 3 Oct 2018 23:13

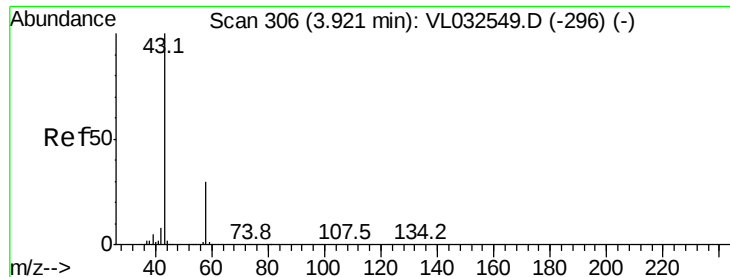
Tgt Ion: 45 Resp: 13301

Ion Ratio Lower Upper

45 100

46 38.3 14.2 56.8





#15

Acetone

Concen: 11.553 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

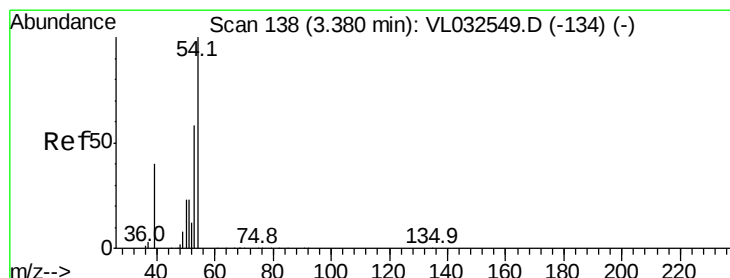
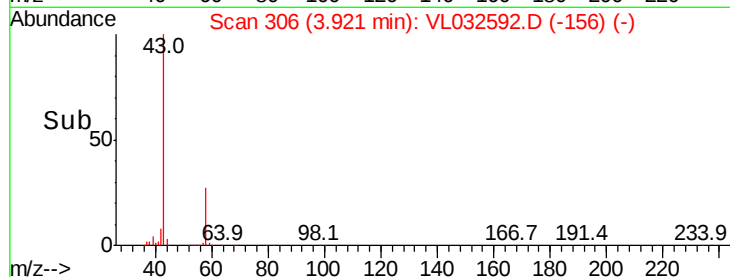
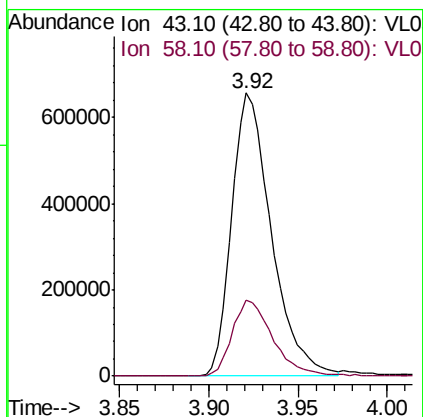
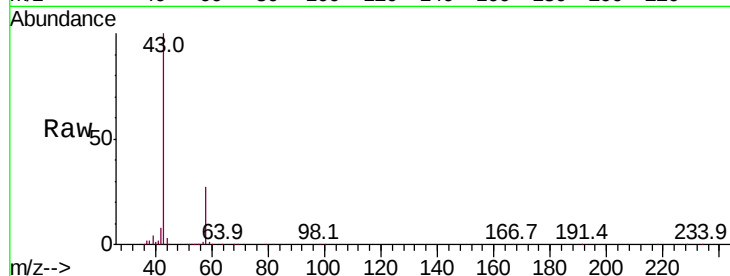
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1021135

Ion Ratio Lower Upper

43 100

58 27.8 22.6 33.8



#16

1,3-Butadiene

Concen: 0.210 ppbv

RT: 3.41 min Scan# 148

Delta R.T. 0.01 min

Lab File: VL032592.D

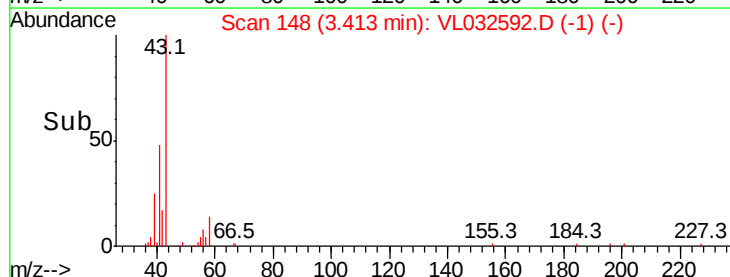
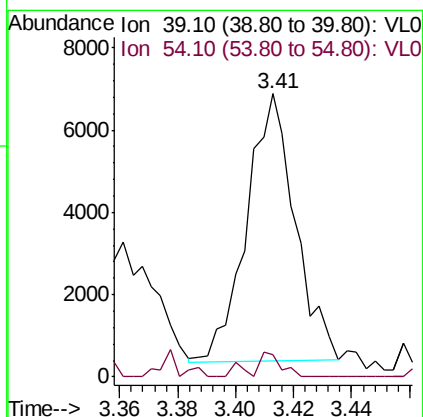
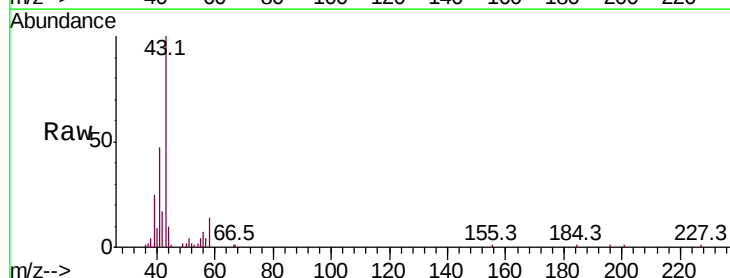
Acq: 3 Oct 2018 23:13

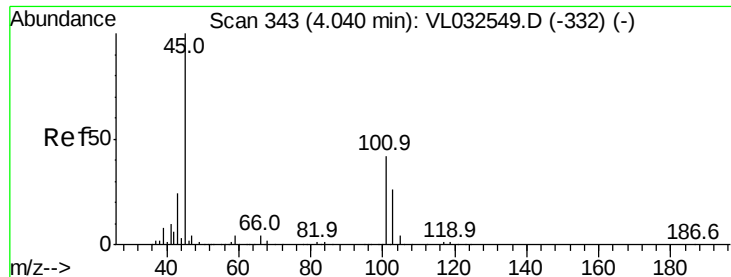
Tgt Ion: 39 Resp: 7518

Ion Ratio Lower Upper

39 100

54 8.9 80.8 121.2#





#19

Isopropyl Alcohol

Concen: 0.592 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Instrument :

MSVOA_L

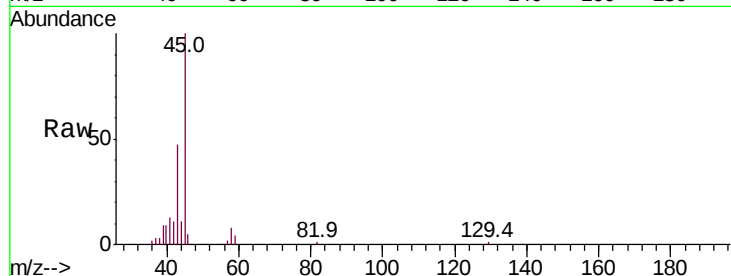
ClientSampleId :

Tot Ion: 45 Resp: 36471

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.07

20000

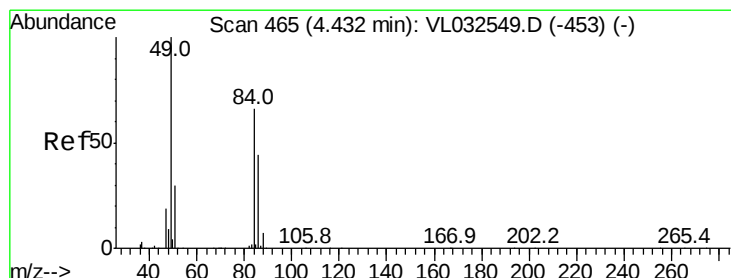
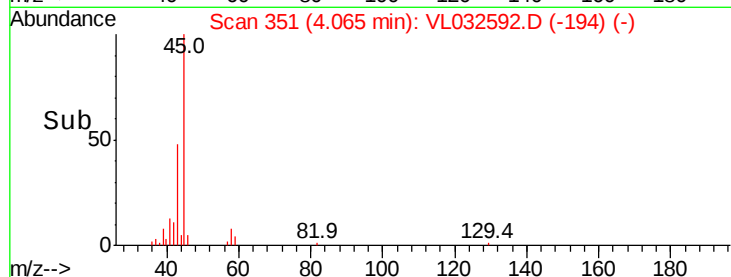
15000

10000

5000

0

Time--> 4.00 4.05 4.10 4.15



#20

Methylene Chloride

Concen: 0.408 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Tgt Ion: 84 Resp: 17455

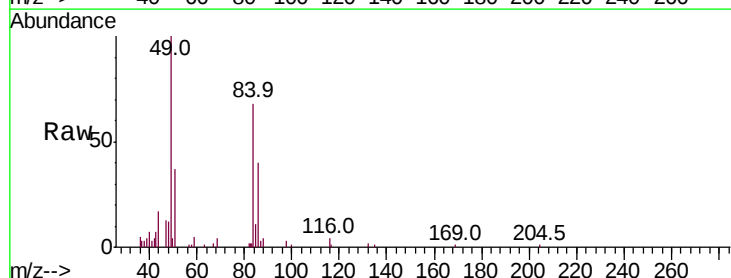
Ion Ratio Lower Upper

84 100

49 144.8 119.1 178.7

51 53.5 35.2 52.8#

86 64.0 49.4 74.2



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

25000

20000

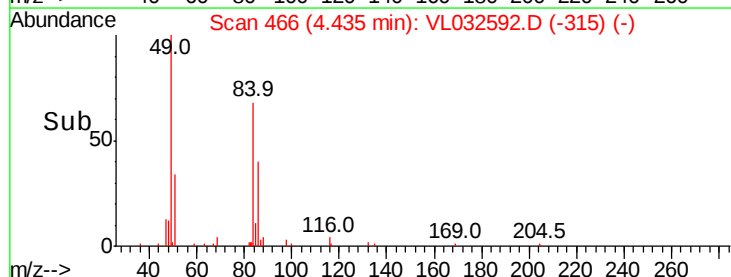
15000

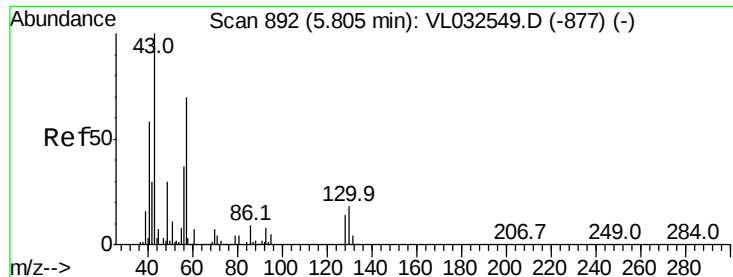
10000

5000

0

Time--> 4.40 4.45

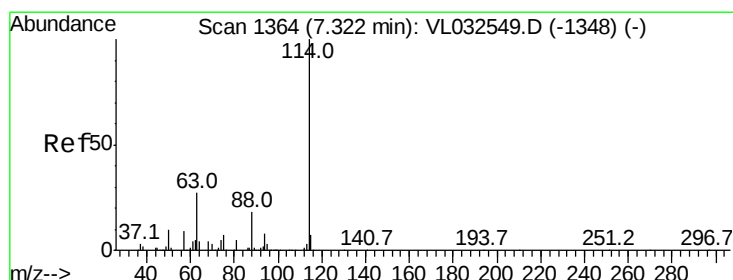
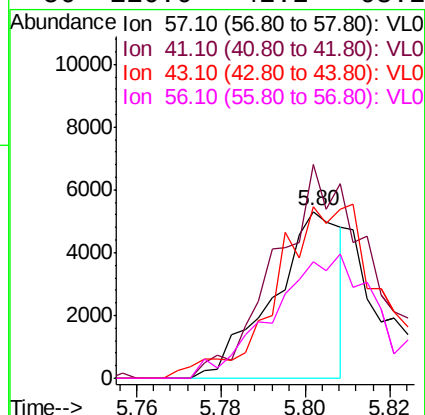
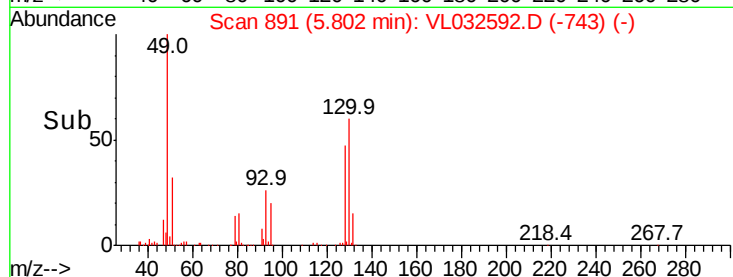
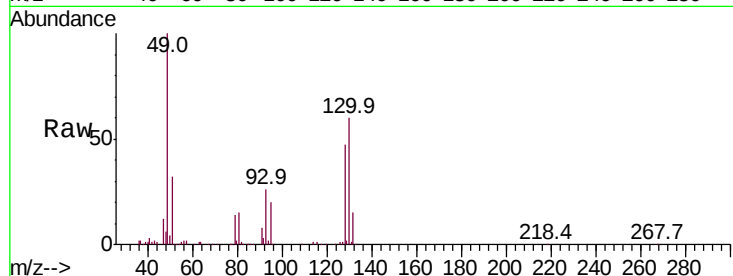




#26
Hexane
Concen: 0.061 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL032592.D
Acq: 3 Oct 2018 23:13

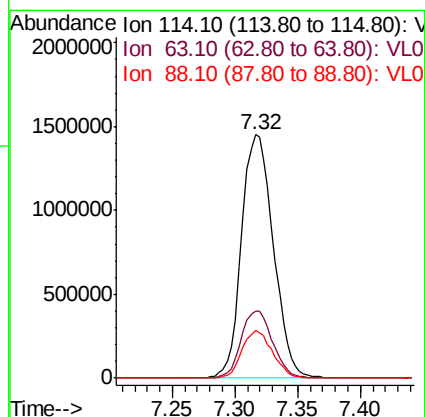
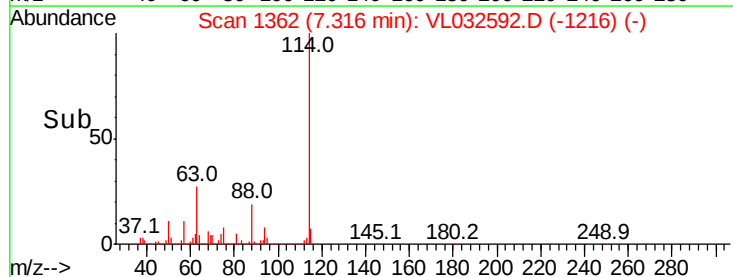
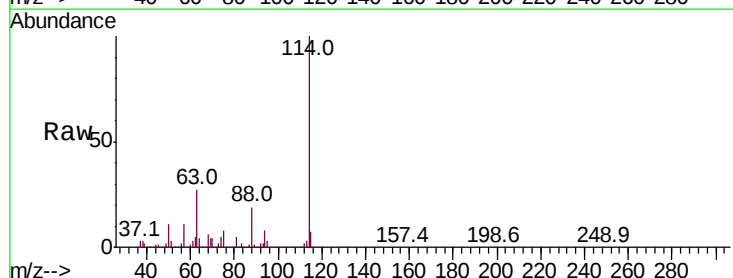
Instrument :
MSVOA_L
ClientSampled :

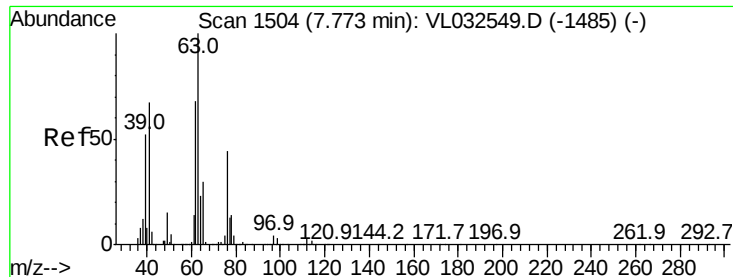
Tot Ion:	57	Resp:	5869
Ion	Ratio	Lower	Upper
57	100		
41	187.3	69.0	103.4#
43	169.7	172.1	258.1#
56	116.0	42.2	63.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1362
Delta R.T. -0.03 min
Lab File: VL032592.D
Acq: 3 Oct 2018 23:13

Tgt Ion:	114	Resp:	2565661
Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.2	33.4
88	18.8	15.0	22.4





#39

1,2-Dichloropropane

Concen: 7.461 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Instrument :

MSVOA_L

ClientSampleId :

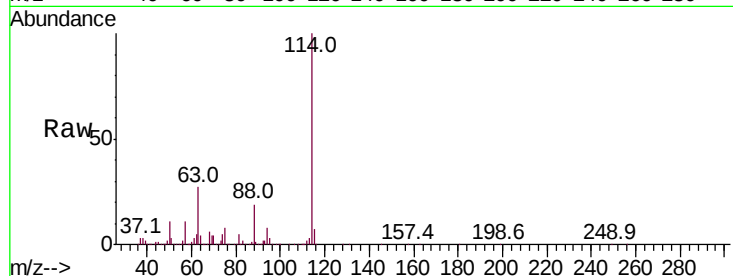
Tot Ion: 63 Resp: 697150

Ion Ratio Lower Upper

63 100

41 0.1 55.4 83.0#

62 18.3 55.4 83.0#

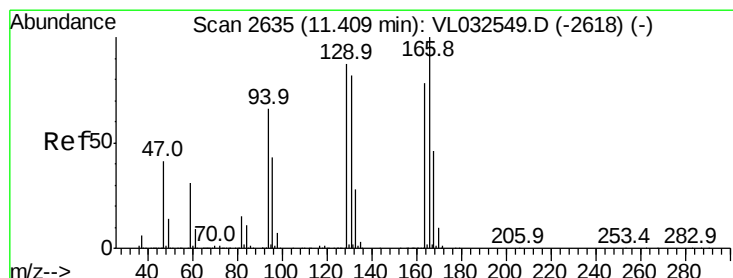
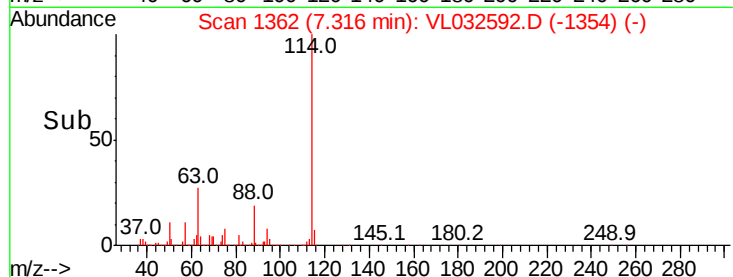
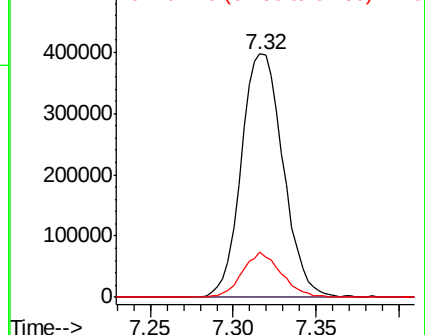


Abundance

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



#52

Tetrachloroethene

Concen: 0.287 ppbv

RT: 11.41 min Scan# 2634

Delta R.T. -0.02 min

Lab File: VL032592.D

Acq: 3 Oct 2018 23:13

Tgt Ion:164 Resp: 20743

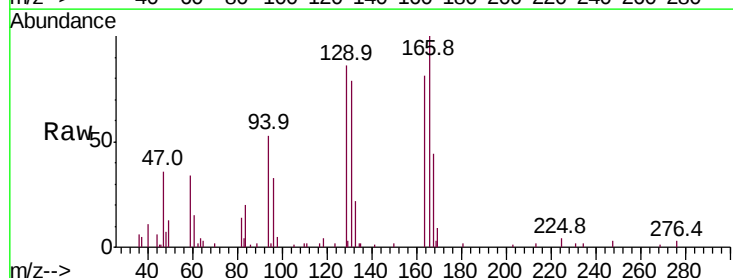
Ion Ratio Lower Upper

164 100

166 120.3 100.6 150.8

129 109.2 89.9 134.9

131 97.2 85.9 128.9



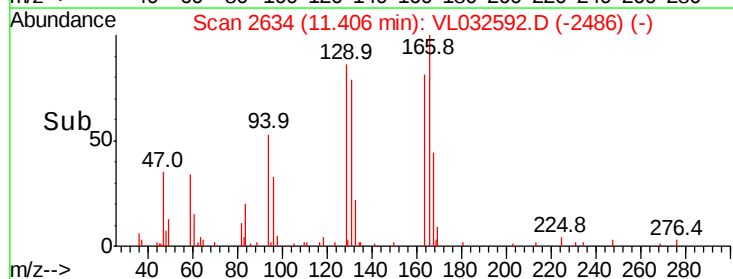
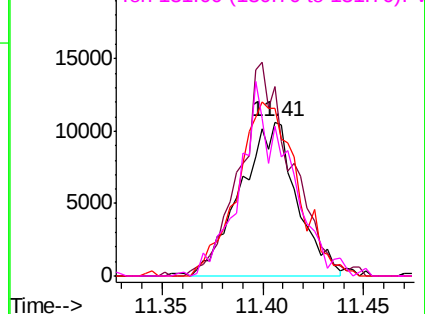
Abundance

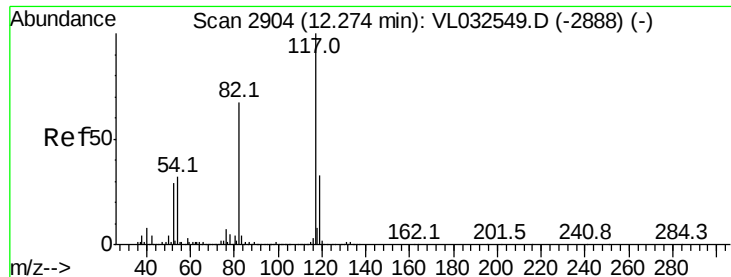
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

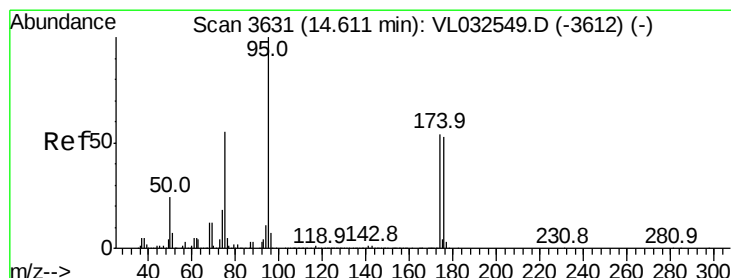
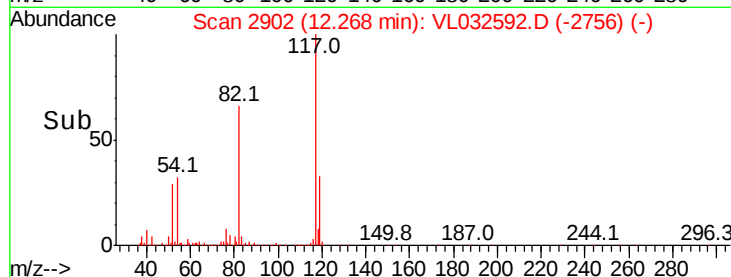
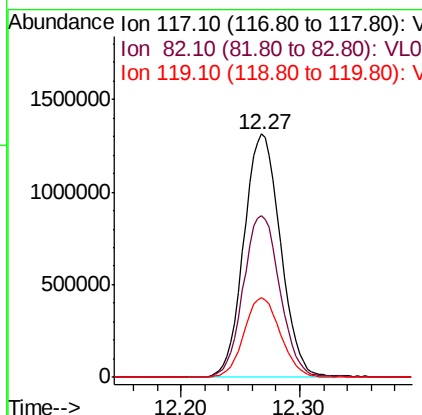
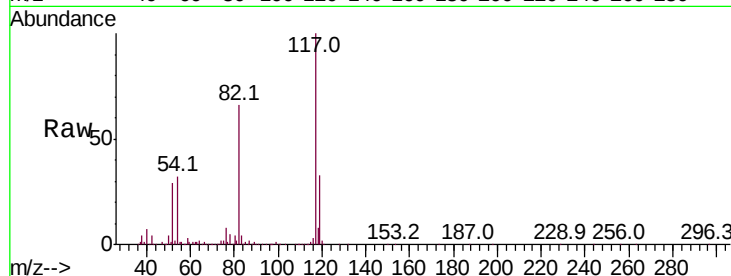




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.03 min
Lab File: VL032592.D
Acq: 3 Oct 2018 23:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2803696
Ion Ratio Lower Upper
117 100
82 67.2 53.0 79.6
119 32.7 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.328 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032592.D
Acq: 3 Oct 2018 23:13

Tgt Ion: 95 Resp: 1972195
Ion Ratio Lower Upper
95 100
174 58.6 46.3 69.5
175 4.1 3.4 5.0

