

Data File : VL032419.D
Acq On : 21 Aug 2018 11:33
Operator : SY/AP
Sample : J4576-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Quant Time: Aug 21 11:56:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1736766	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3377602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3315927	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2517124	9.95	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

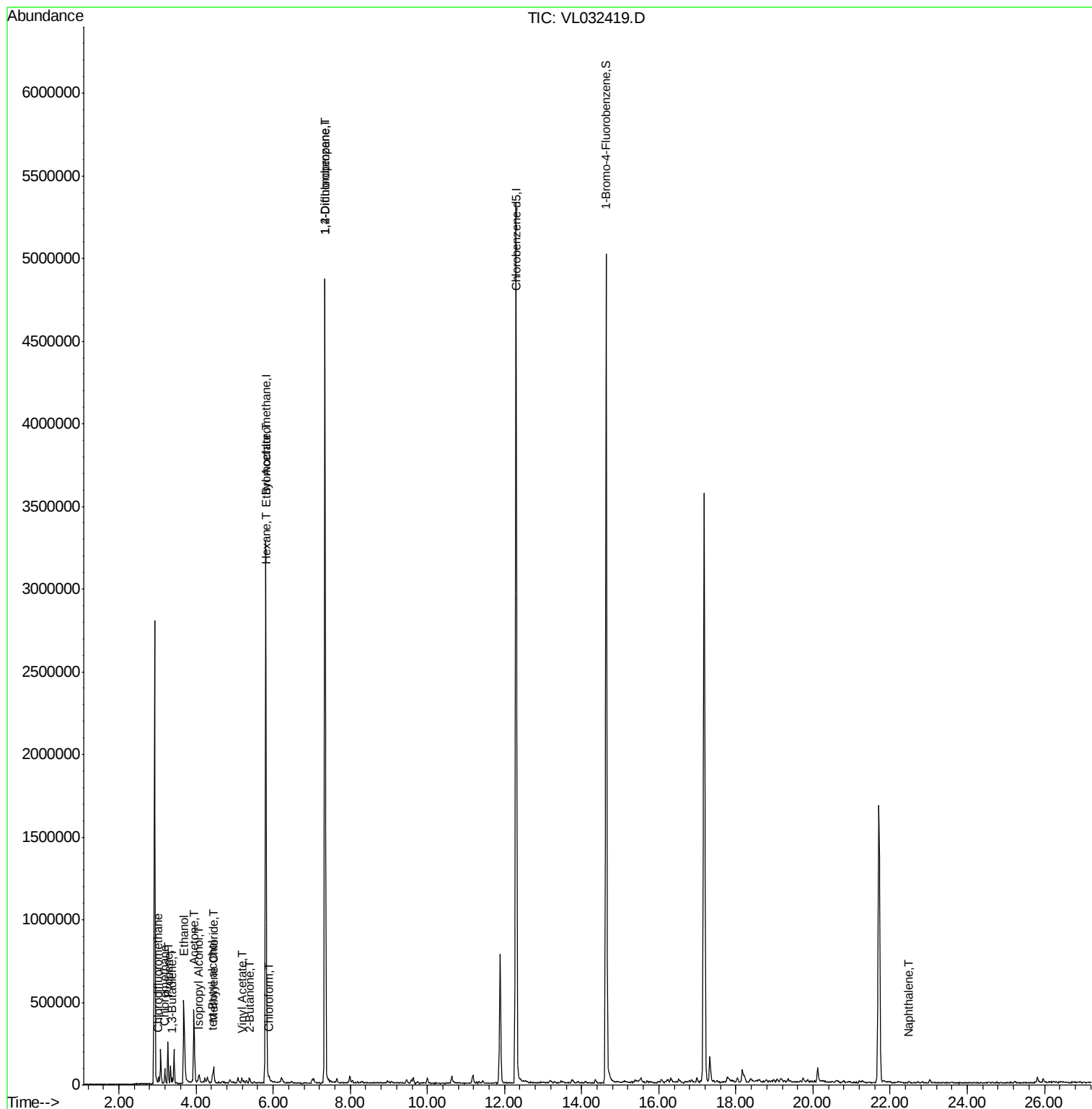
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	11482	Below Cal		94
3) Chlorodifluoromethane	3.02	51	27427	0.170	ppbv #	75
4) Chloromethane	3.21	50	6421	0.067	ppbv #	76
9) Propene	3.27	41	62978	0.915	ppbv	97
13) Ethanol	3.69	45	590149	33.371	ppbv	98
15) Acetone	3.95	43	420552	2.549	ppbv	99
16) 1,3-Butadiene	3.37	39	7213	0.106	ppbv #	3
17) tert-Butyl alcohol	4.42	59	10895	0.393	ppbv #	94
19) Isopropyl Alcohol	4.08	45	47176	0.425	ppbv #	82
20) Methylene Chloride	4.45	84	31169	0.500	ppbv #	93
23) Vinyl Acetate	5.19	43	13856	0.049	ppbv #	71
25) Ethyl Acetate	5.82	43	37934	0.107	ppbv #	92
26) Hexane	5.83	57	13592	0.086	ppbv #	63
29) Chloroform	5.90	83	11246	0.049	ppbv	95
34) 2-Butanone	5.38	43	16474	0.072	ppbv #	53
39) 1,2-Dichloropropane	7.34	63	924793	7.731	ppbv #	25
79) Naphthalene	22.47	128	451	0.329	ppbv #	9

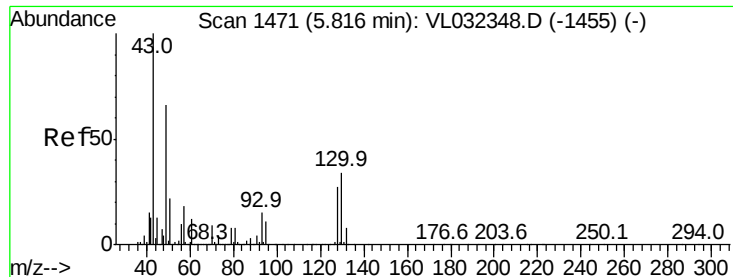
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1469

Delta R.T. -0.01 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

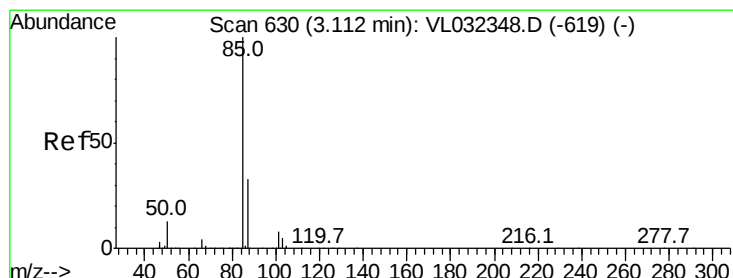
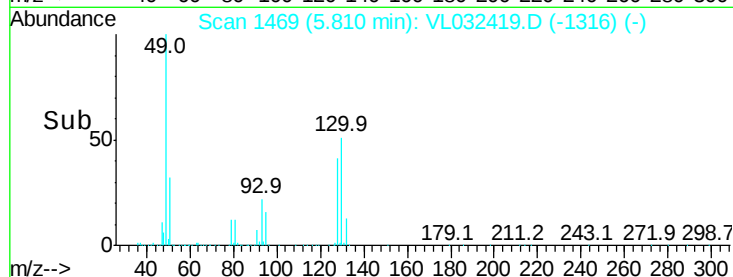
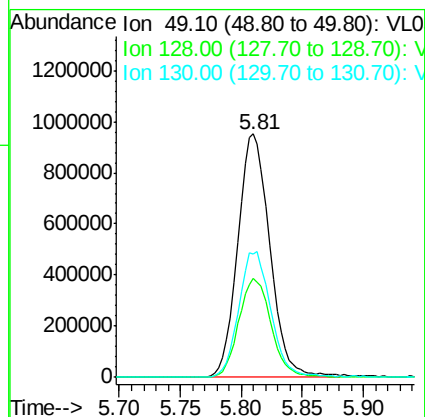
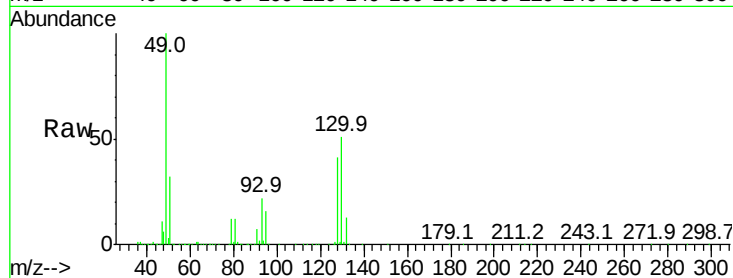
Tgt Ion: 49 Resp: 1736766

Ion Ratio Lower Upper

49 100

128 41.0 20.5 61.6

130 52.1 26.2 78.5



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032419.D

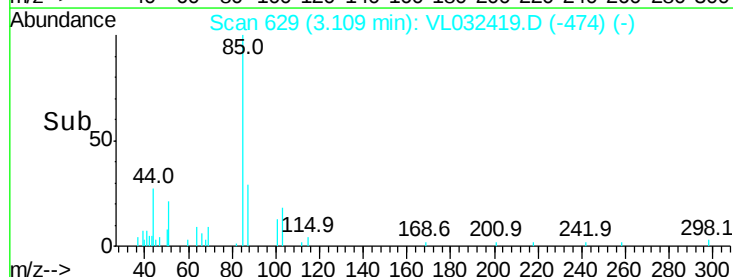
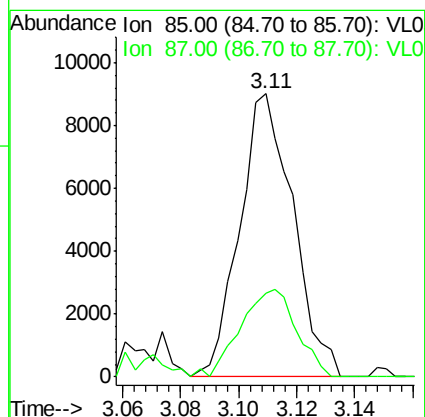
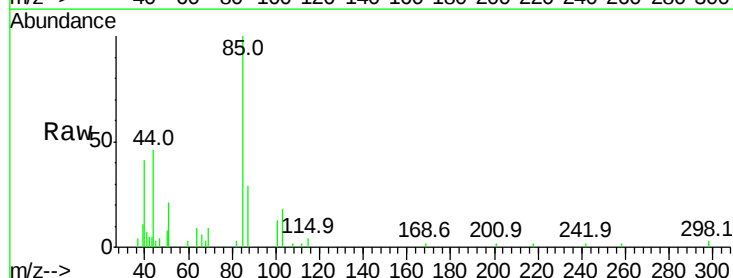
Acq: 21 Aug 2018 11:33

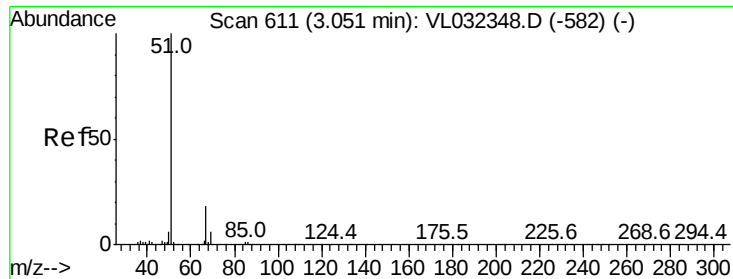
Tgt Ion: 85 Resp: 11482

Ion Ratio Lower Upper

85 100

87 29.4 26.3 39.5





#3

Chlorodifluoromethane

Concen: 0.170 ppbv

RT: 3.02 min Scan# 601

Delta R.T. -0.03 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

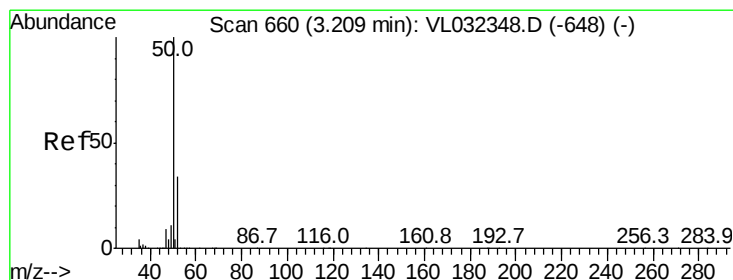
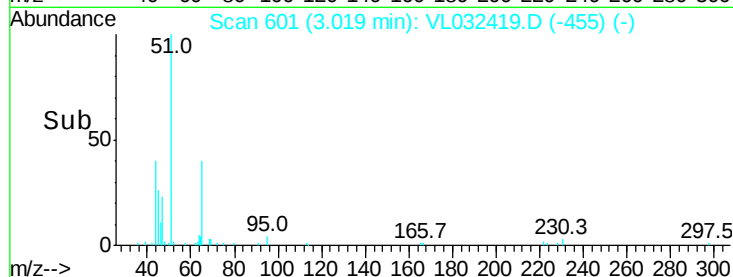
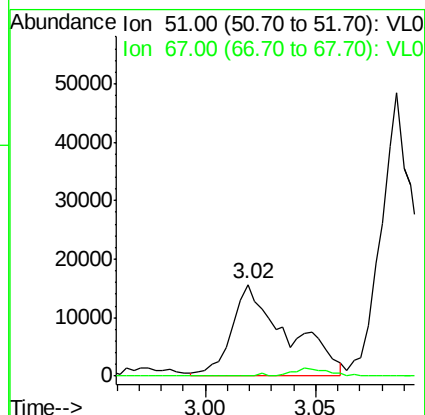
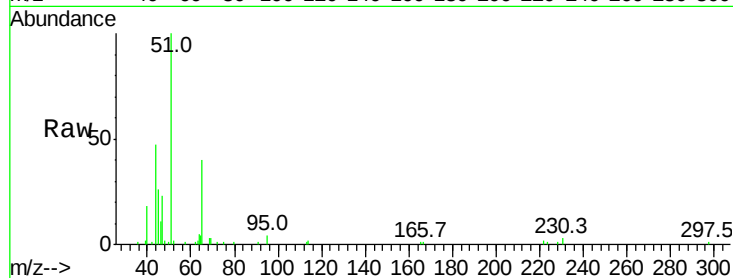
IA1DL

Tgt Ion: 51 Resp: 27427

Ion Ratio Lower Upper

51 100

67 6.1 13.7 20.5#



#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032419.D

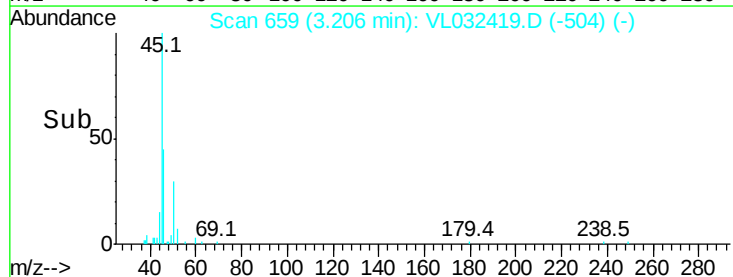
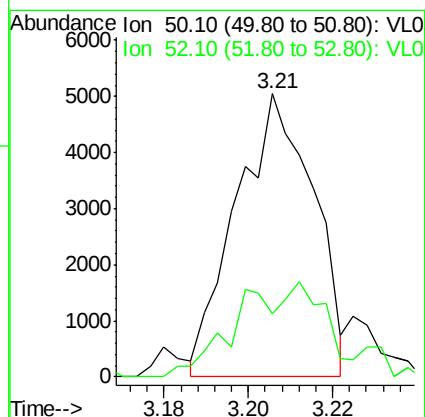
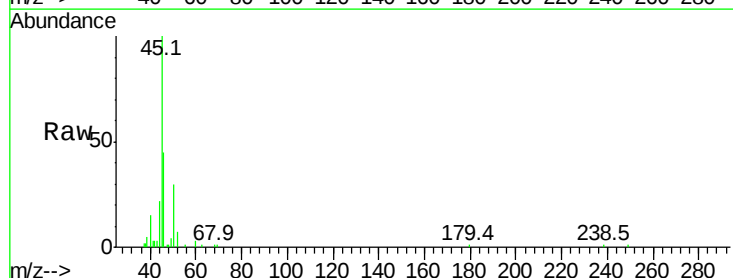
Acq: 21 Aug 2018 11:33

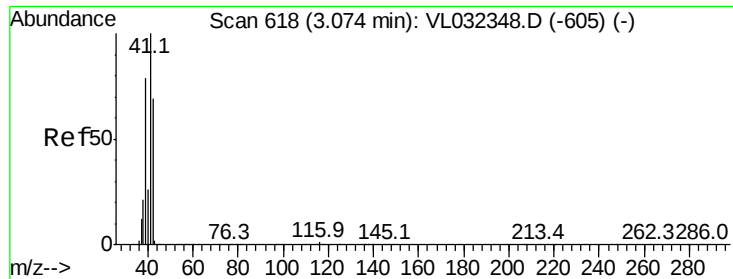
Tgt Ion: 50 Resp: 6421

Ion Ratio Lower Upper

50 100

52 19.6 26.8 40.2#





#9

Propene

Concen: 0.915 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.20 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

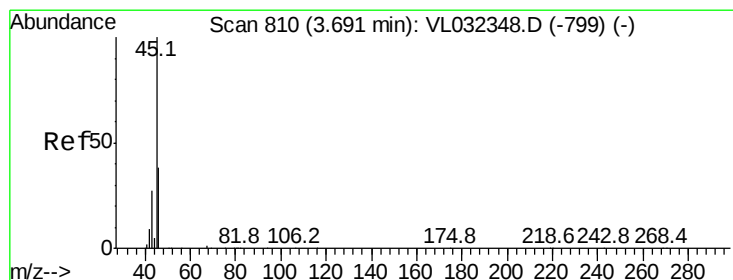
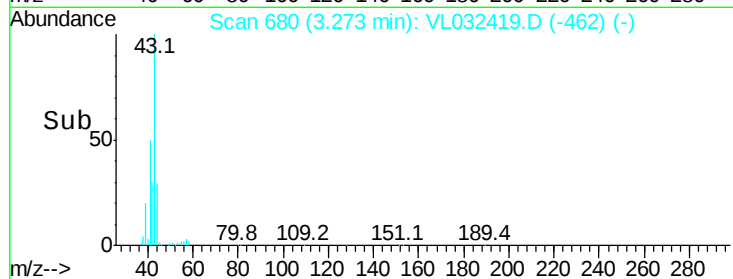
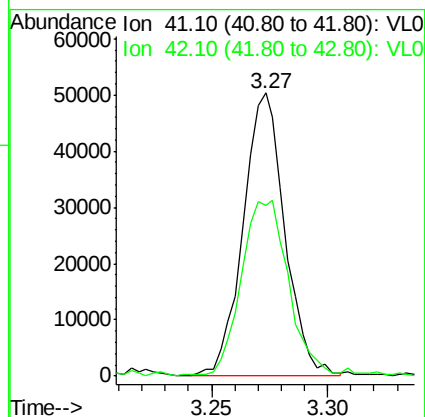
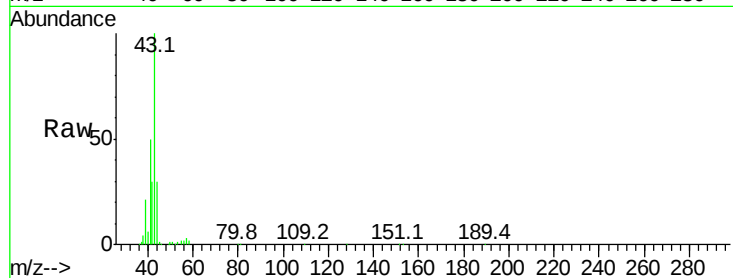
IA1DL

Tgt Ion: 41 Resp: 62978

Ion Ratio Lower Upper

41 100

42 72.1 55.9 83.9



#13

Ethanol

Concen: 33.371 ppbv

RT: 3.69 min Scan# 809

Delta R.T. -0.00 min

Lab File: VL032419.D

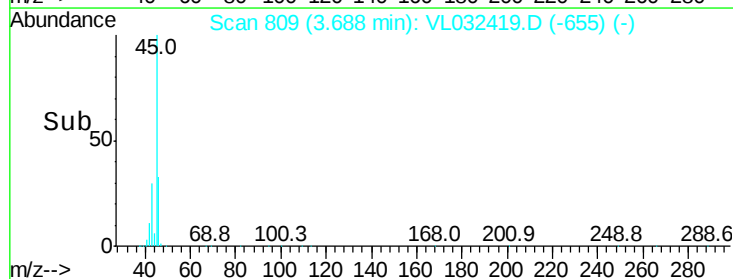
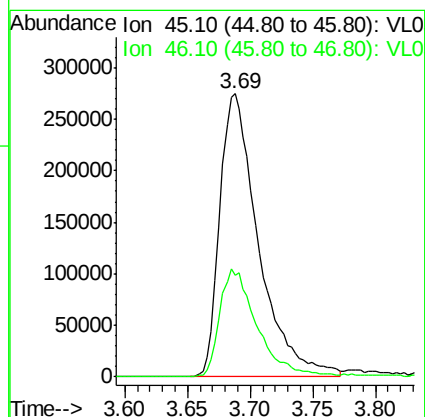
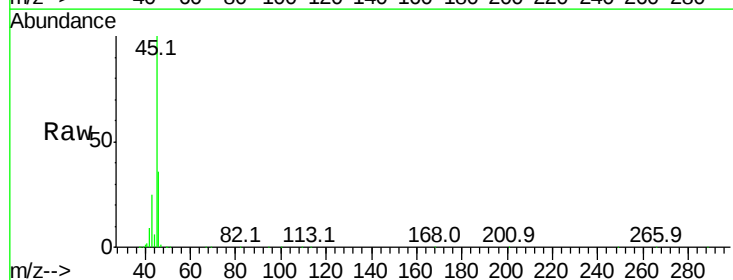
Acq: 21 Aug 2018 11:33

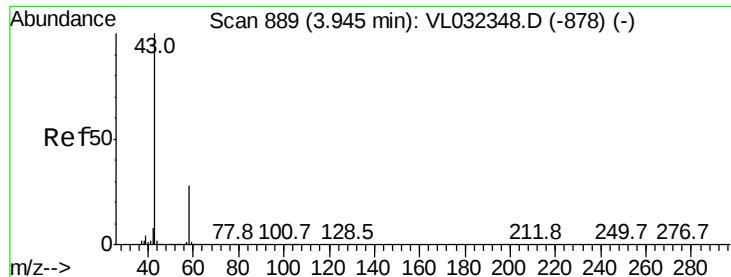
Tgt Ion: 45 Resp: 590149

Ion Ratio Lower Upper

45 100

46 37.8 15.6 62.4





#15

Acetone

Concen: 2.549 ppbv

RT: 3.95 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

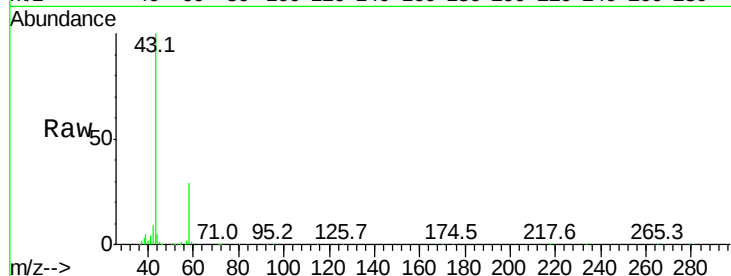
IA1DL

Tgt Ion: 43 Resp: 420552

Ion Ratio Lower Upper

43 100

58 27.3 22.4 33.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

300000

250000

200000

150000

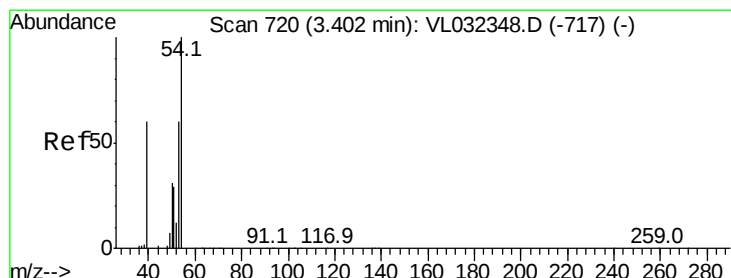
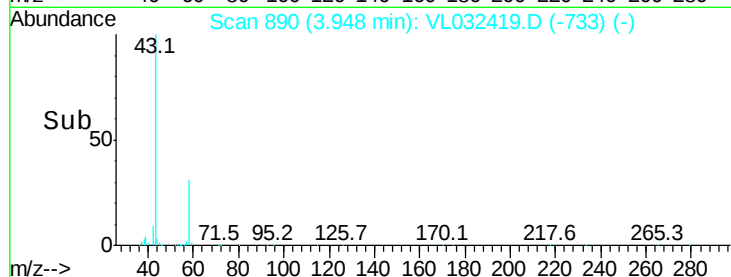
100000

50000

0

Time-->

3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 0.106 ppbv

RT: 3.37 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL032419.D

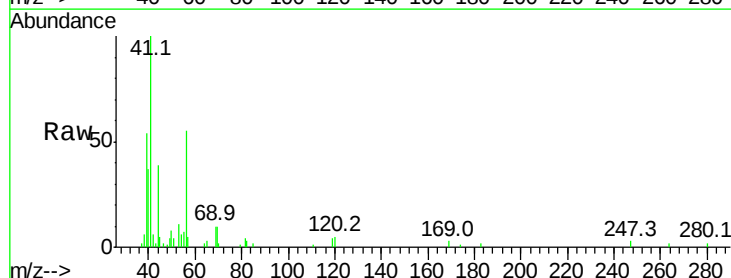
Acq: 21 Aug 2018 11:33

Tgt Ion: 39 Resp: 7213

Ion Ratio Lower Upper

39 100

54 5.8 85.5 128.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

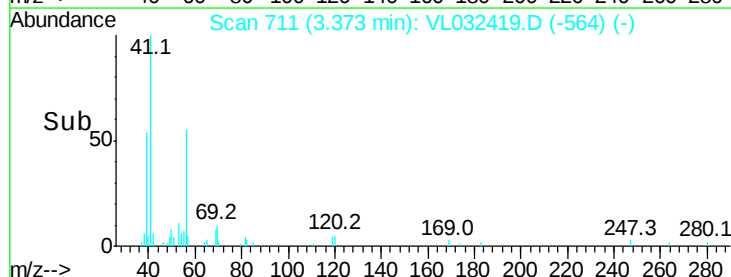
10000

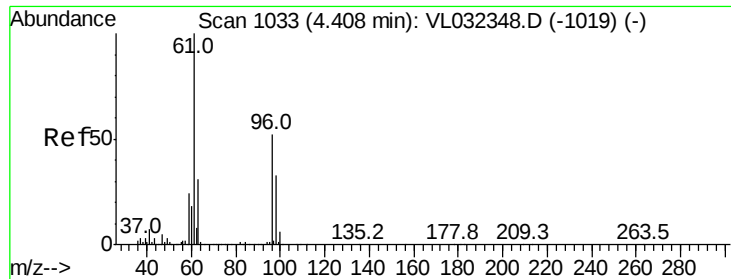
5000

0

Time-->

3.34 3.36 3.38 3.40

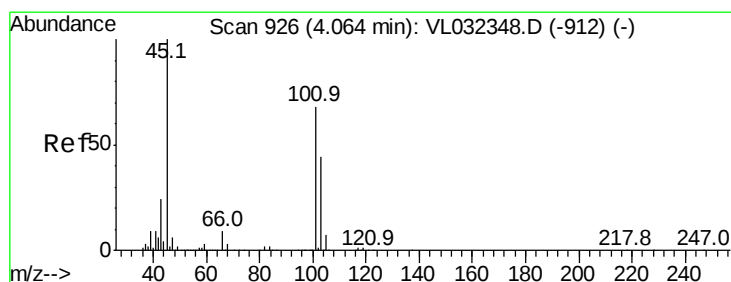
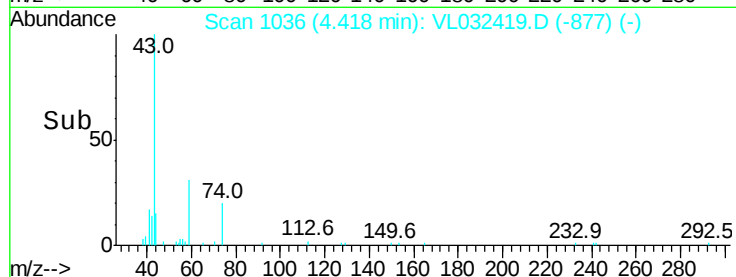
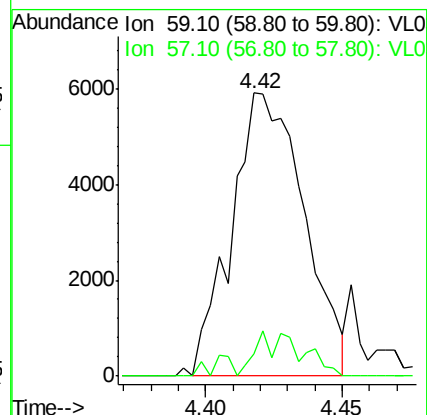
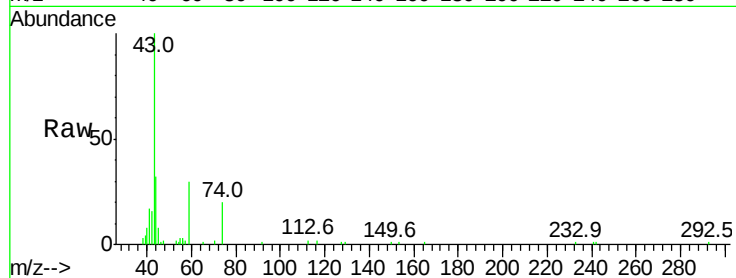




#17
 tert-Butyl alcohol
 Concen: 0.393 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.01 min
 Lab File: VL032419.D
 Acq: 21 Aug 2018 11:33

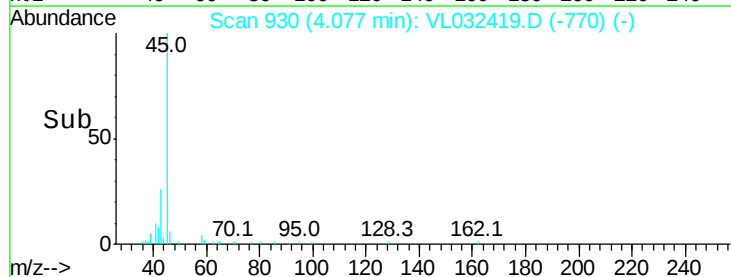
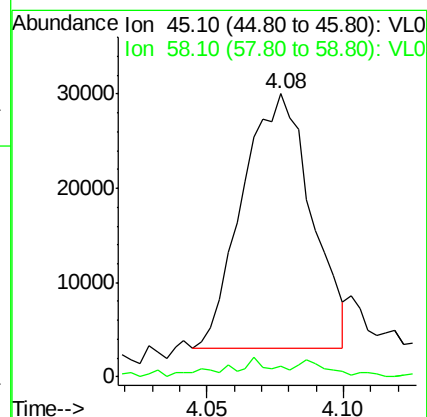
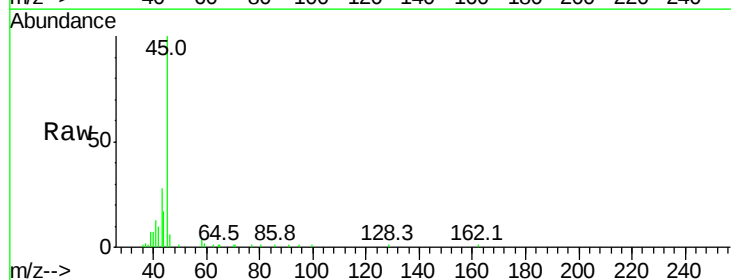
Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DL

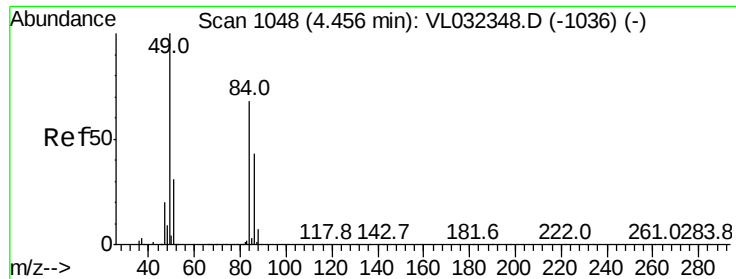
Tgt Ion: 59 Resp: 10895
 Ion Ratio Lower Upper
 59 100
 57 11.6 7.6 11.4#



#19
 Isopropyl Alcohol
 Concen: 0.425 ppbv
 RT: 4.08 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VL032419.D
 Acq: 21 Aug 2018 11:33

Tgt Ion: 45 Resp: 47176
 Ion Ratio Lower Upper
 45 100
 58 8.2 1.4 2.0#

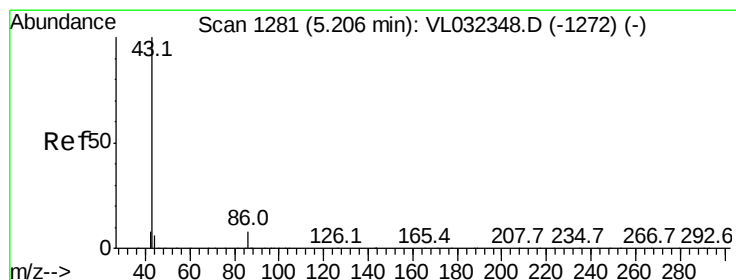
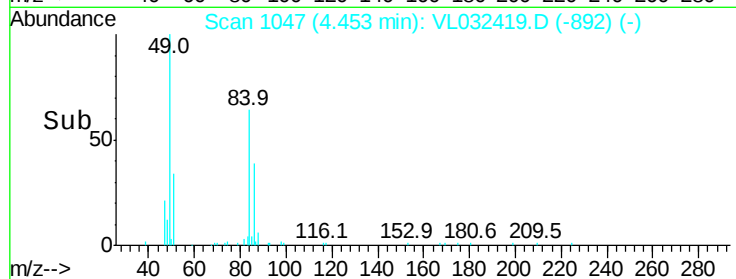
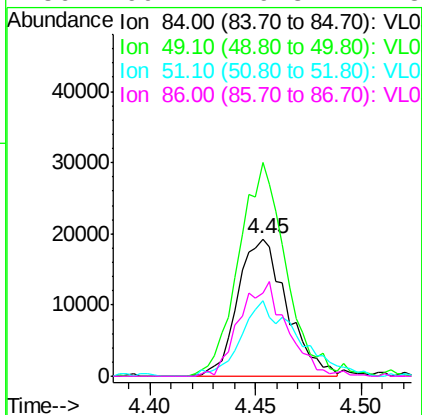
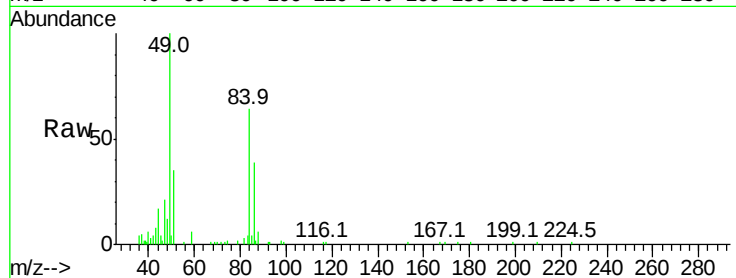




#20
Methylene Chloride
Concen: 0.500 ppbv
RT: 4.45 min Scan# 1047
Delta R.T. -0.00 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

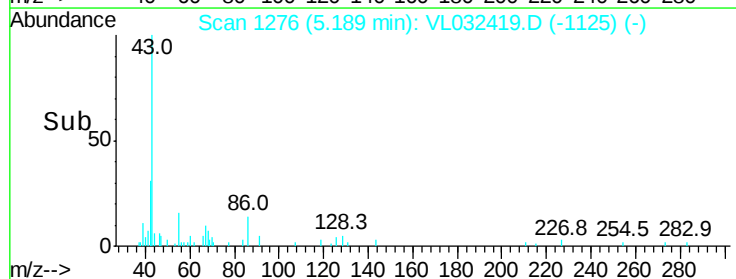
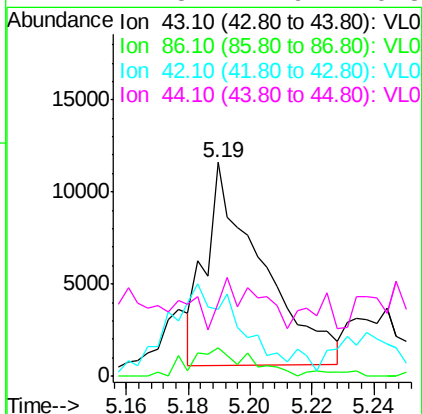
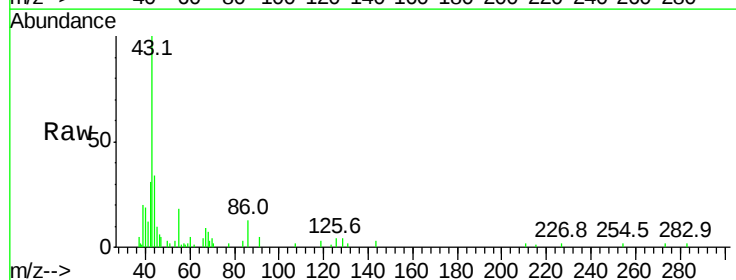
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

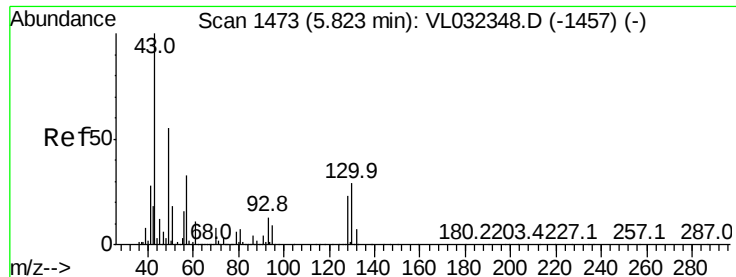
Tgt Ion: 84 Resp: 31169
Ion Ratio Lower Upper
84 100
49 155.4 117.3 175.9
51 55.0 36.6 55.0#
86 60.4 49.8 74.8



#23
Vinyl Acetate
Concen: 0.049 ppbv
RT: 5.19 min Scan# 1276
Delta R.T. -0.02 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

Tgt Ion: 43 Resp: 13856
Ion Ratio Lower Upper
43 100
86 13.7 5.5 8.3#
42 22.2 7.0 10.6#
44 14.8 4.6 6.8#

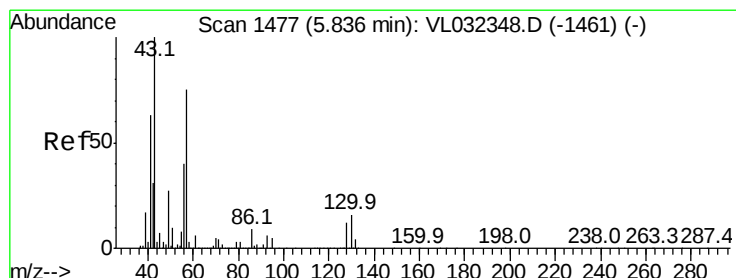
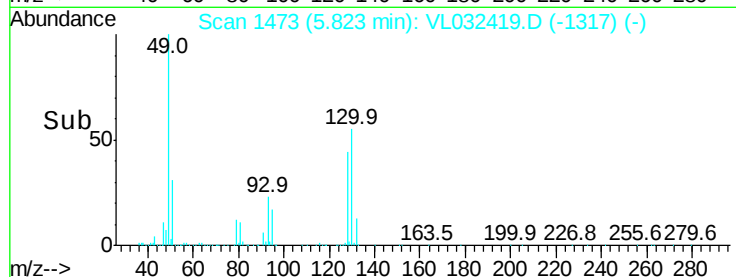
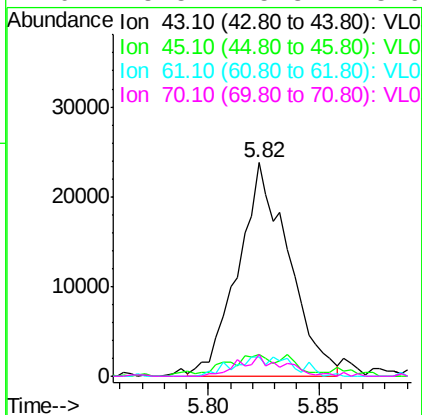
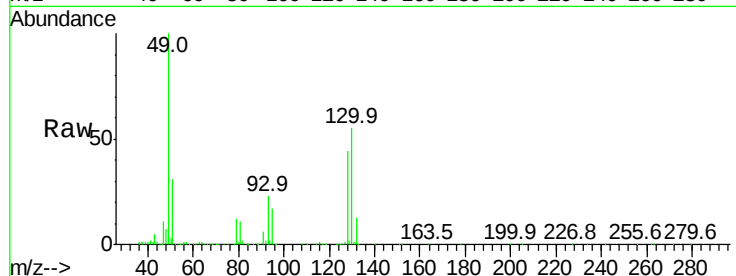




#25
Ethyl Acetate
Concen: 0.107 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

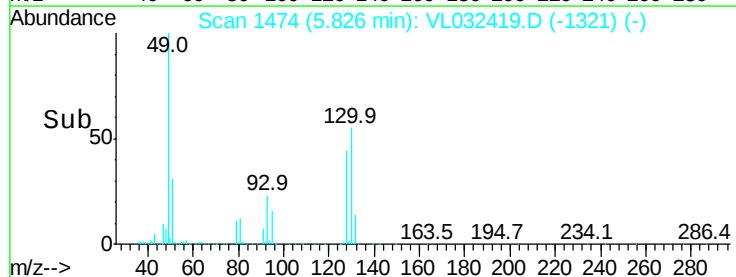
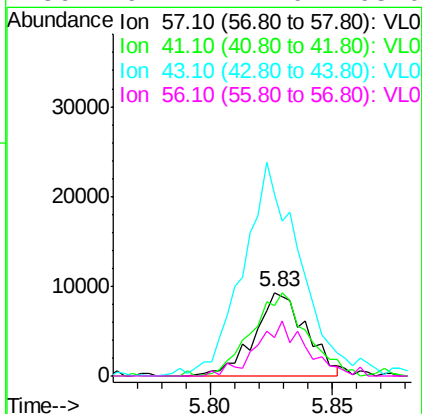
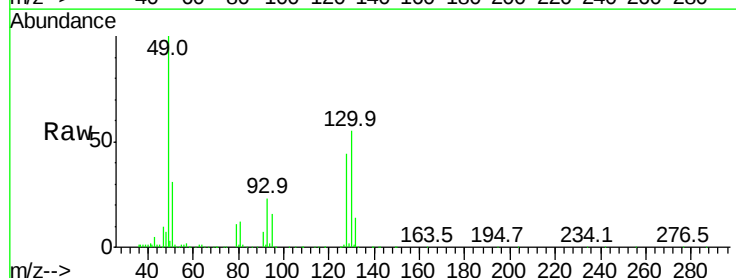
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

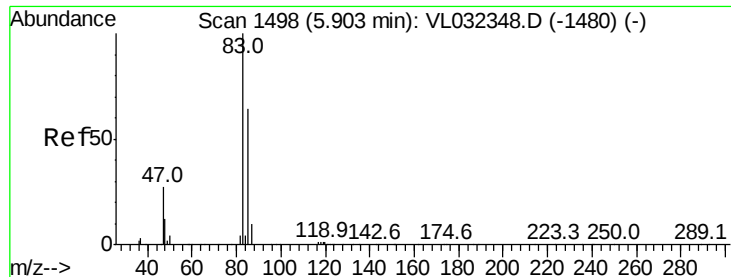
Tgt Ion:	43	Resp:	37934
Ion	Ratio	Lower	Upper
43	100		
45	15.7	7.9	11.9#
61	10.7	7.4	11.2
70	8.5	5.8	8.6



#26
Hexane
Concen: 0.086 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

Tgt Ion:	57	Resp:	13592
Ion	Ratio	Lower	Upper
57	100		
41	110.7	68.0	102.0#
43	292.5	175.3	262.9#
56	64.4	42.0	63.0#





#29

Chloroform

Concen: 0.049 ppbv

RT: 5.90 min Scan# 1496

Delta R.T. -0.01 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

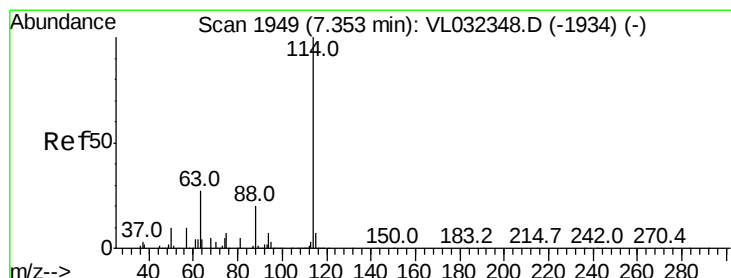
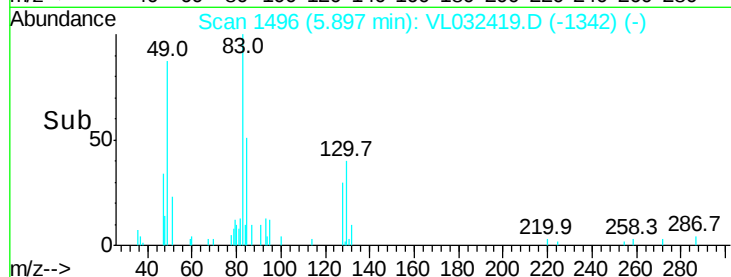
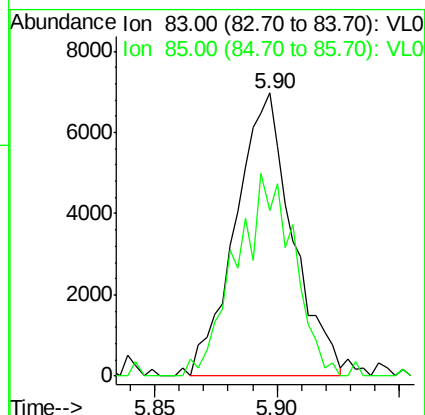
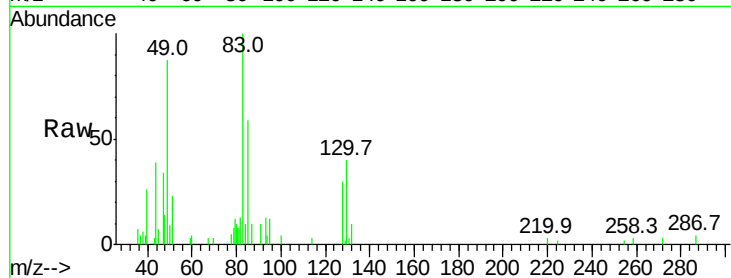
IA1DL

Tgt Ion: 83 Resp: 11246

Ion Ratio Lower Upper

83 100

85 60.5 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.34 min Scan# 1946

Delta R.T. -0.01 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

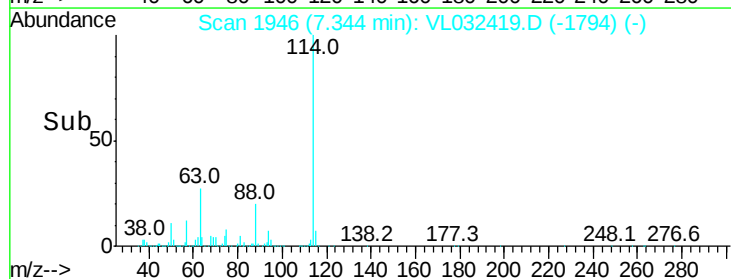
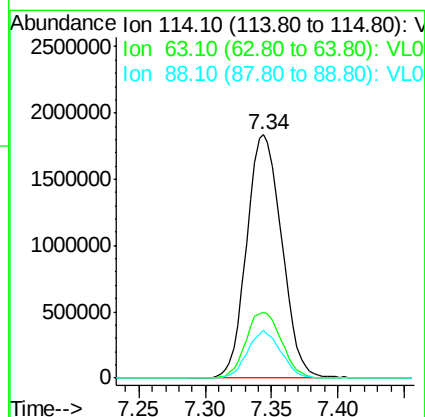
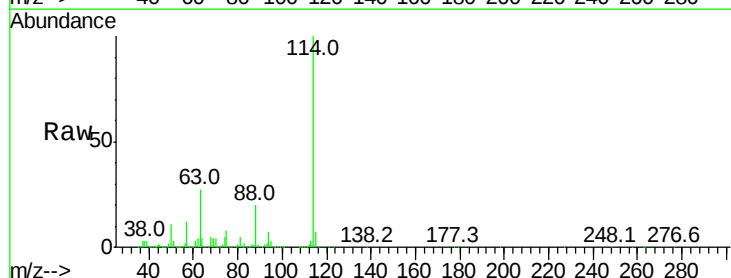
Tgt Ion: 114 Resp: 3377602

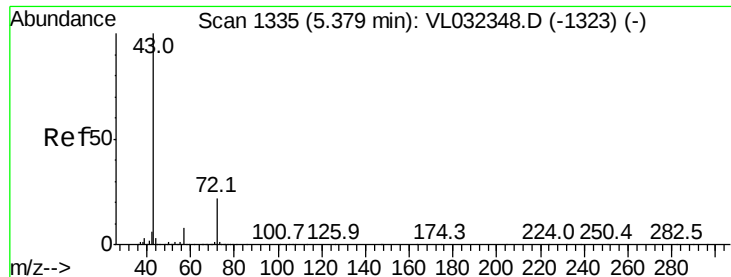
Ion Ratio Lower Upper

114 100

63 27.6 22.0 33.0

88 18.7 15.3 22.9

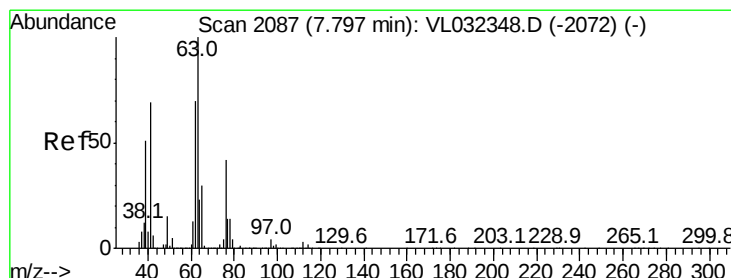
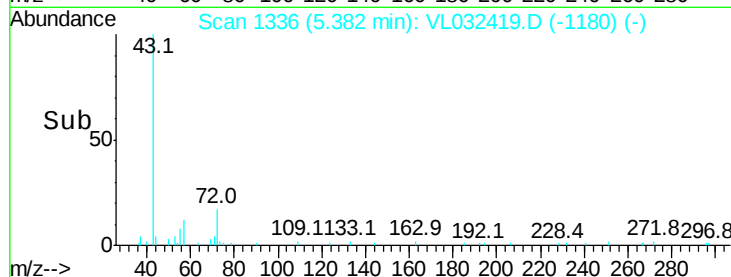
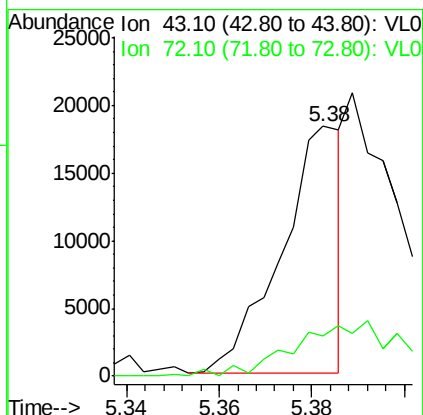
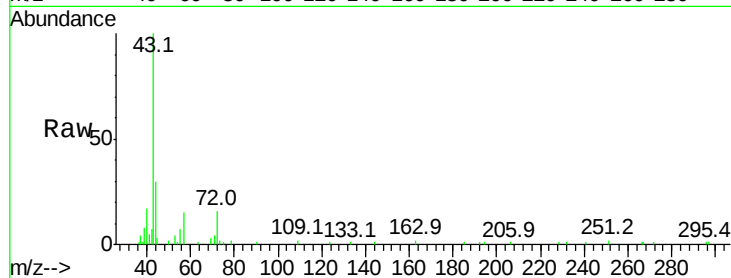




#34
2-Butanone
Concen: 0.072 ppbv
RT: 5.38 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

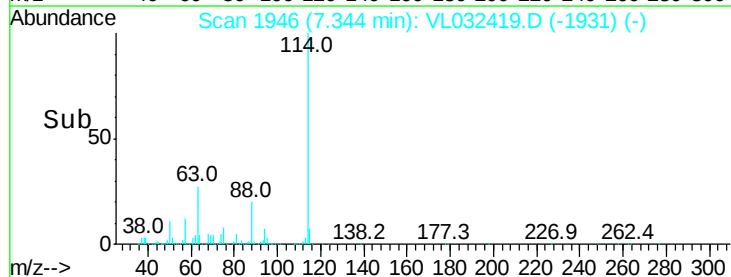
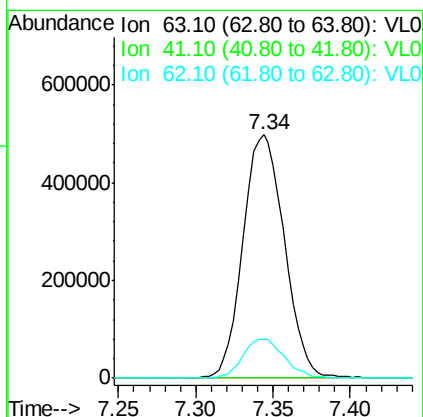
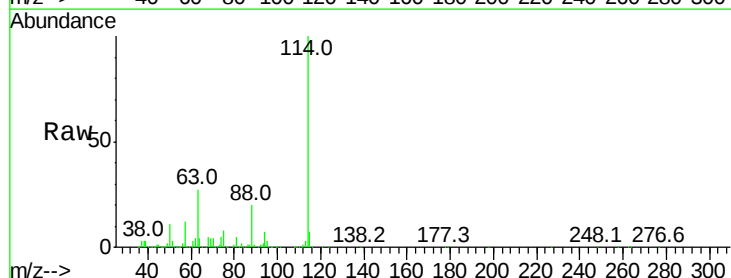
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

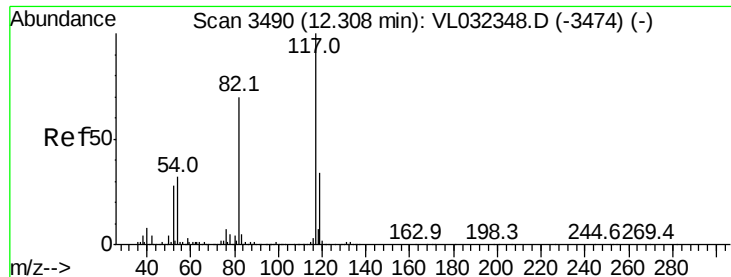
Tgt Ion: 43 Resp: 16474
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#



#39
1,2-Dichloropropane
Concen: 7.731 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.45 min
Lab File: VL032419.D
Acq: 21 Aug 2018 11:33

Tgt Ion: 63 Resp: 924793
Ion Ratio Lower Upper
63 100
41 0.0 55.5 83.3#
62 16.1 56.3 84.5#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

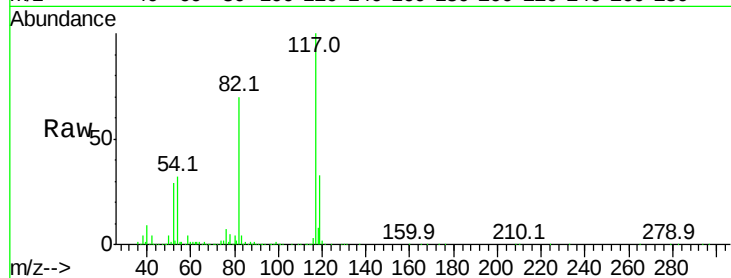
Tgt Ion: 117 Resp: 3315927

Ion Ratio Lower Upper

117 100

82 68.5 55.1 82.7

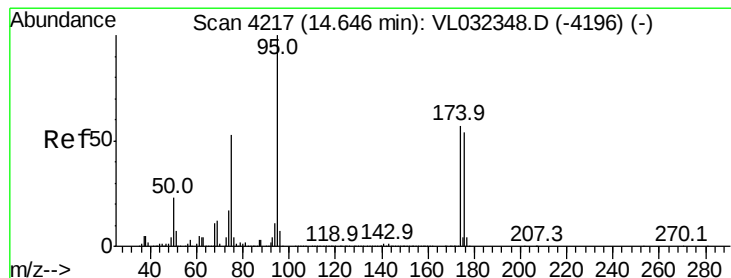
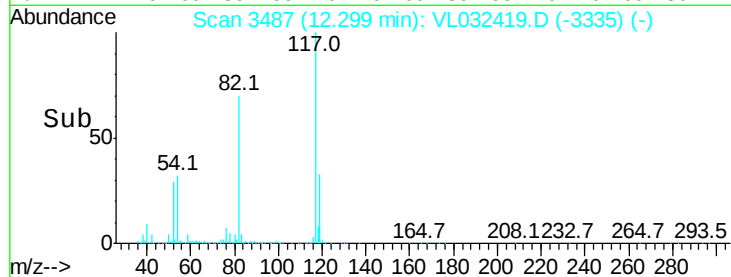
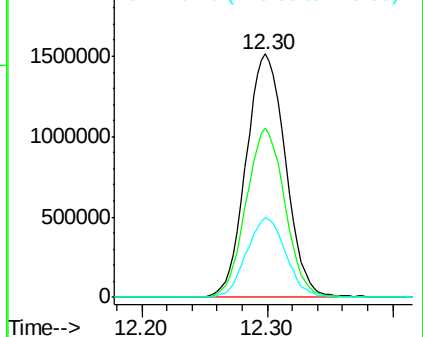
119 32.5 46.0 69.0#



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: 9.950 ppbv

RT: 14.63 min Scan# 4213

Delta R.T. -0.01 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

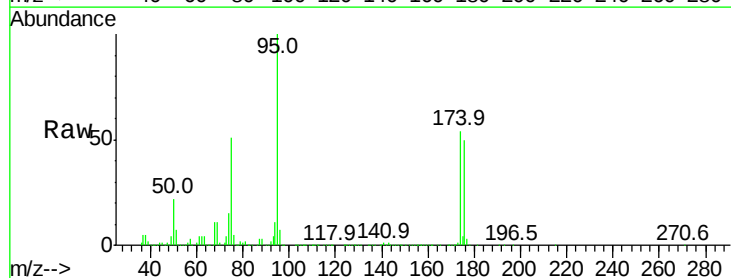
Tgt Ion: 95 Resp: 2517124

Ion Ratio Lower Upper

95 100

174 57.8 46.2 69.4

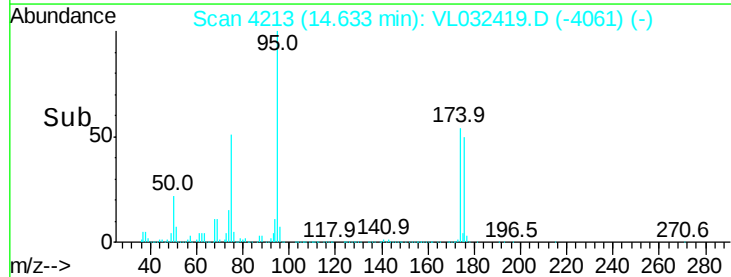
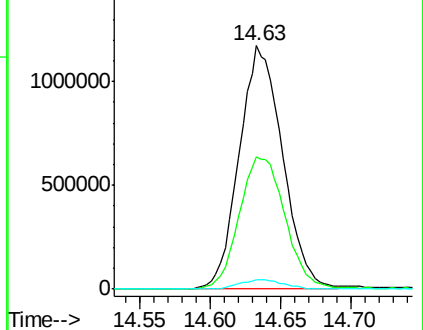
175 4.1 3.4 5.0

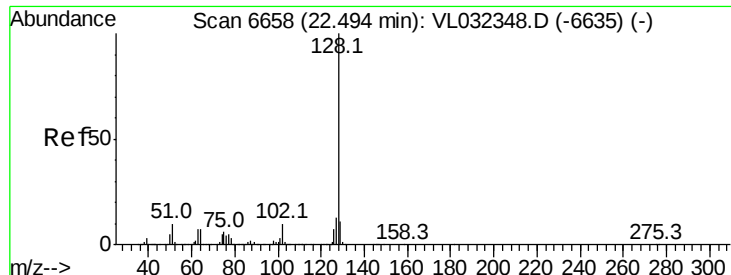


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#79

Naphthalene

Concen: 0.329 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.02 min

Lab File: VL032419.D

Acq: 21 Aug 2018 11:33

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

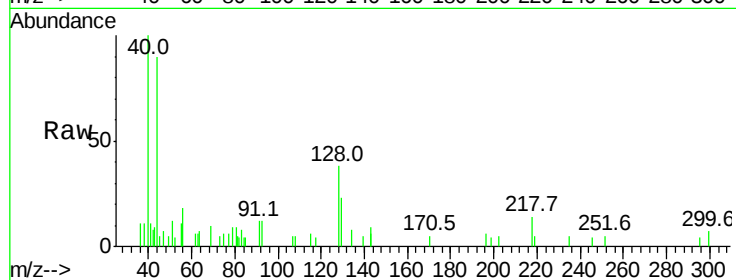
Tgt Ion:128 Resp: 451

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 71.4 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

