

Data File : VL033569.D
Acq On : 10 Apr 2019 18:19
Operator : SY/AP
Sample : K2301-01DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Apr 11 03:44:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	847935	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1980468	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1918756	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1534095 10.20 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.00%

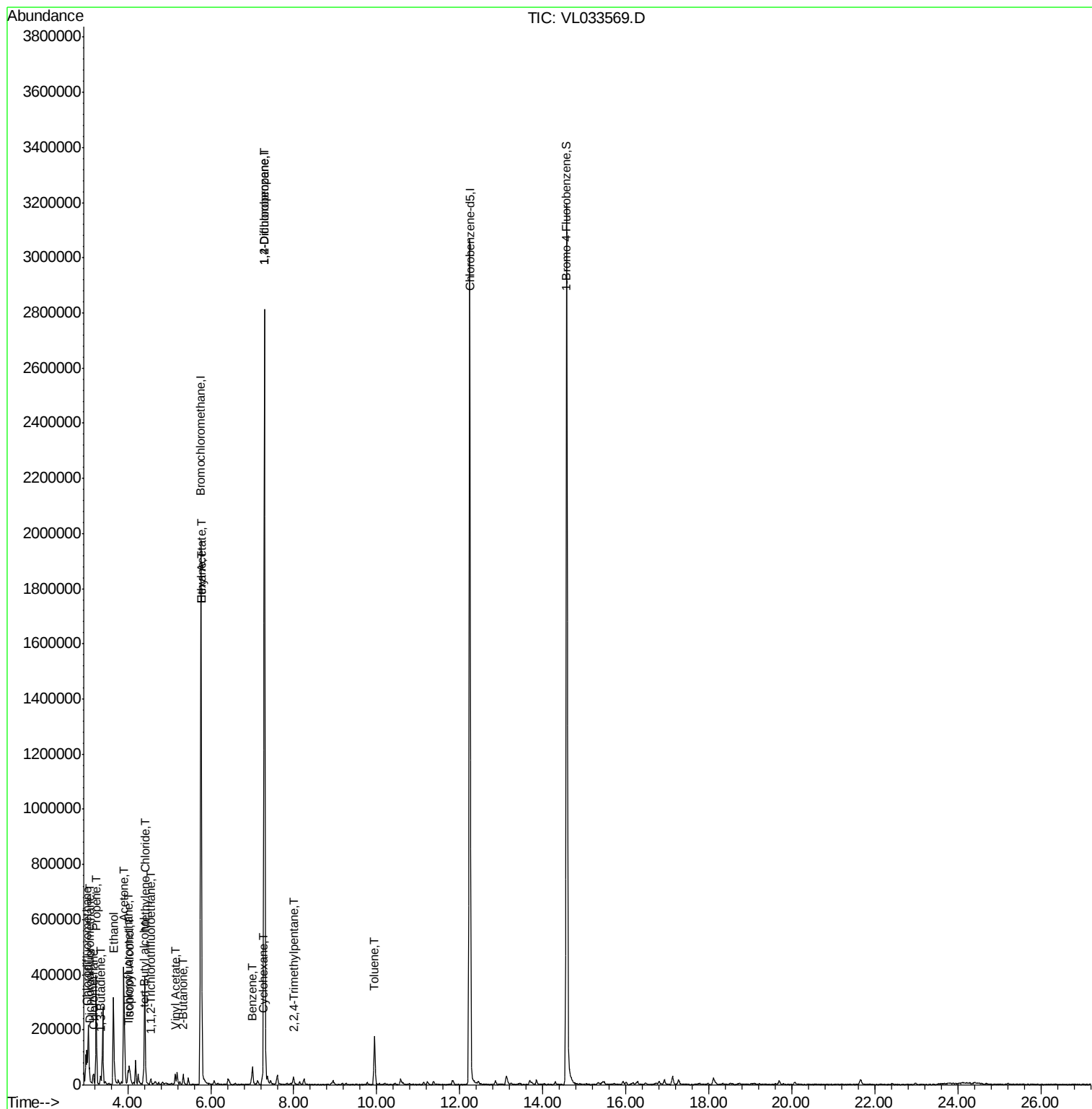
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	35861	0.290 ppbv	99
3) Chlorodifluoromethane	3.02	51	160786	1.647 ppbv #	84
4) Chloromethane	3.18	50	26234	0.508 ppbv #	88
9) Propene	3.24	41	86459	2.109 ppbv	90
11) Trichlorofluoromethane	4.00	101	31048	0.204 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3409	0.033 ppbv #	12
13) Ethanol	3.65	45	321206	30.278 ppbv	65
15) Acetone	3.90	43	437947	4.295 ppbv	99
16) 1,3-Butadiene	3.35	39	4094	0.101 ppbv #	79
17) tert-Butyl alcohol	4.38	59	4805	0.256 ppbv #	73
19) Isopropyl Alcohol	4.03	45	40596	0.630 ppbv #	73
20) Methylene Chloride	4.41	84	140590	3.248 ppbv	94
23) Vinyl Acetate	5.15	43	28757	0.198 ppbv #	77
25) Ethyl Acetate	5.78	43	79682	0.421 ppbv #	86
26) Hexane	5.78	57	94263	1.121 ppbv #	43
30) Cyclohexane	7.25	84	4766	0.072 ppbv #	1
34) 2-Butanone	5.34	43	41584	0.349 ppbv	98
36) Benzene	7.00	78	48705	0.293 ppbv	96
39) 1,2-Dichloropropane	7.29	63	520073	7.989 ppbv #	23
44) 2,2,4-Trimethylpentane	7.99	57	18400	0.063 ppbv #	59
53) Toluene	9.94	91	122415	0.634 ppbv	97

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

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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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ClientSampleId :

QA1DUP

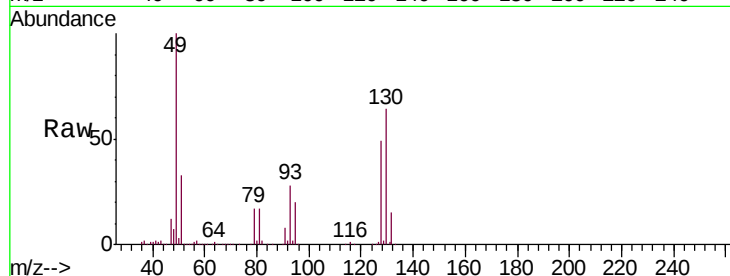
Tgt Ion: 49 Resp: 847935

Ion Ratio Lower Upper

49 100

128 49.0 24.0 72.0

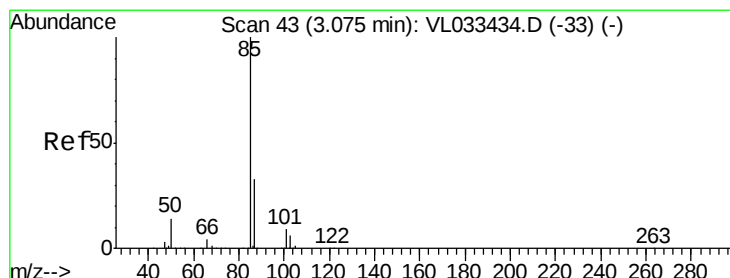
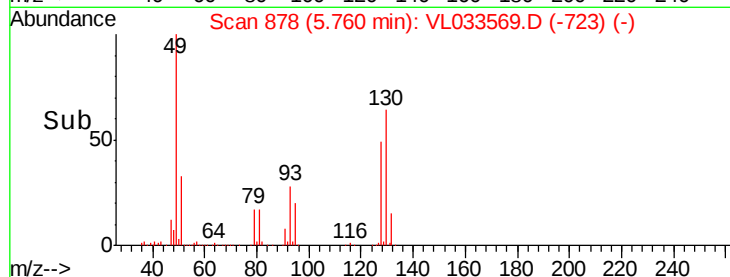
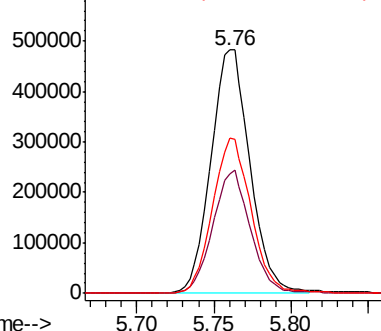
130 63.2 31.2 93.6



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: 0.290 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033569.D

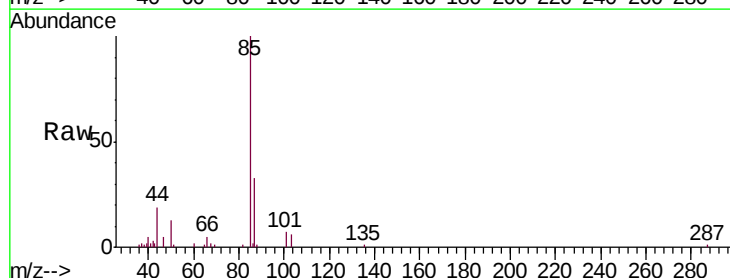
Acq: 10 Apr 2019 18:19

Tgt Ion: 85 Resp: 35861

Ion Ratio Lower Upper

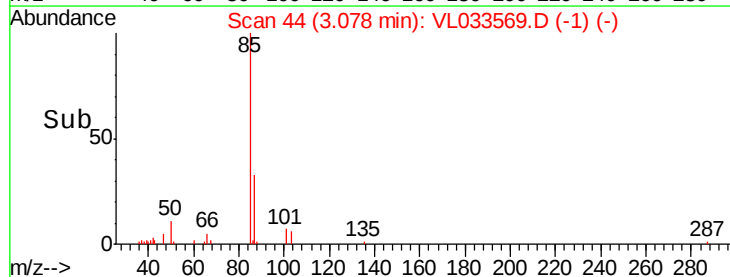
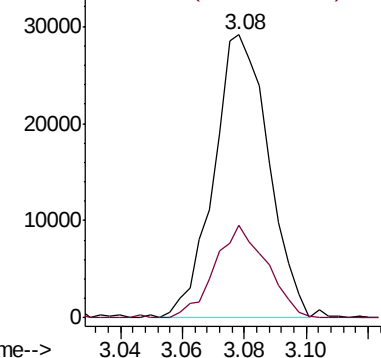
85 100

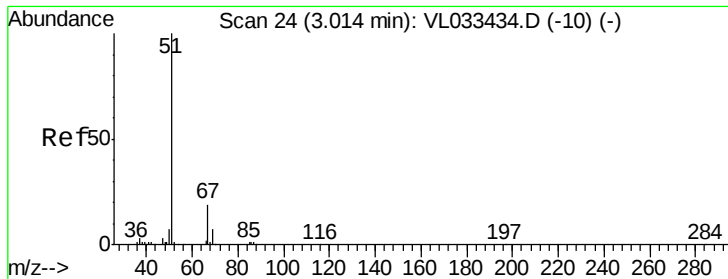
87 32.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.647 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

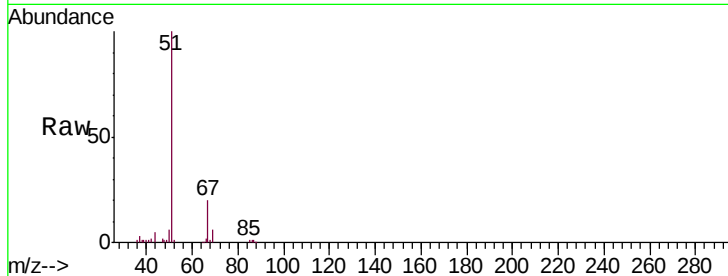
QA1DUP

Tgt Ion: 51 Resp: 160786

Ion Ratio Lower Upper

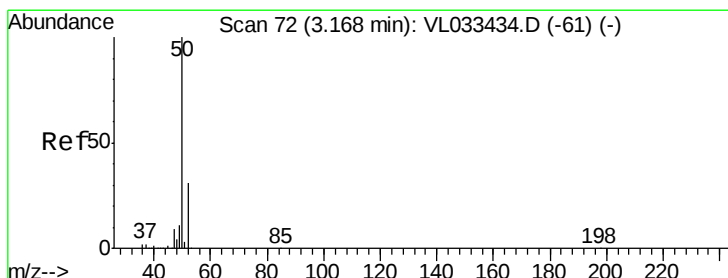
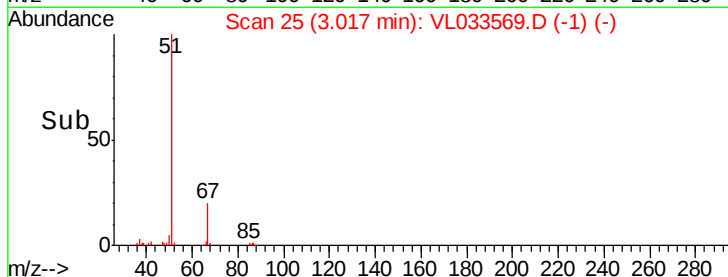
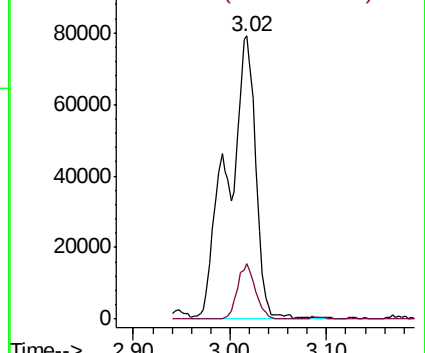
51 100

67 12.3 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.508 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL033569.D

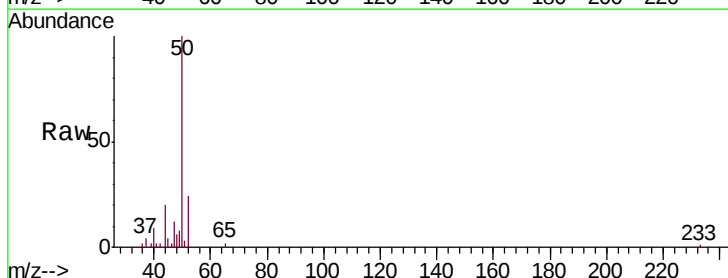
Acq: 10 Apr 2019 18:19

Tgt Ion: 50 Resp: 26234

Ion Ratio Lower Upper

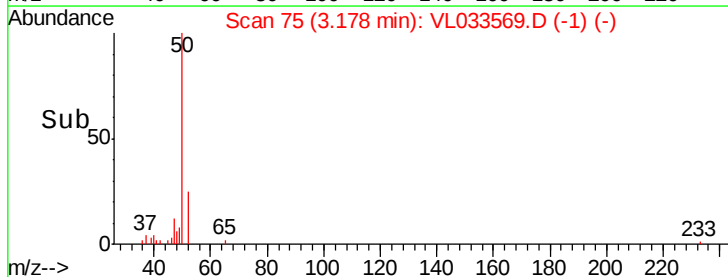
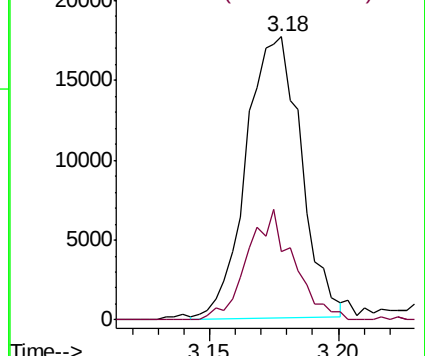
50 100

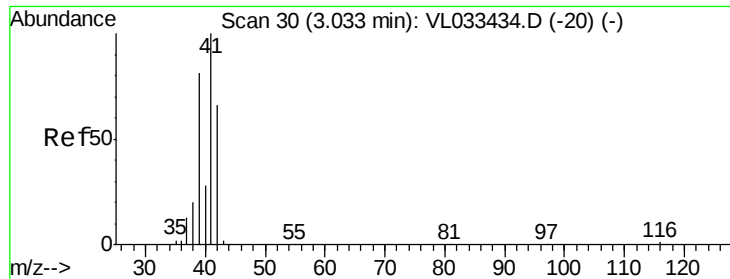
52 24.6 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.109 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.21 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

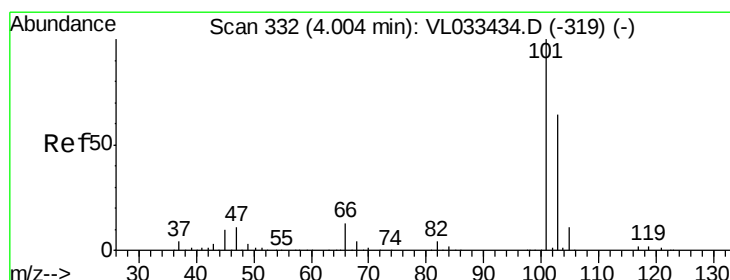
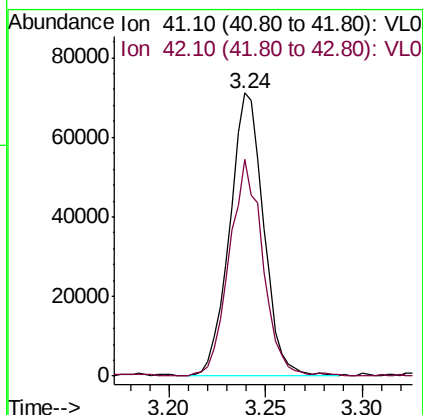
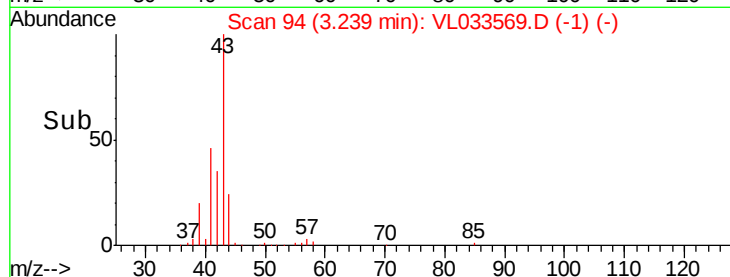
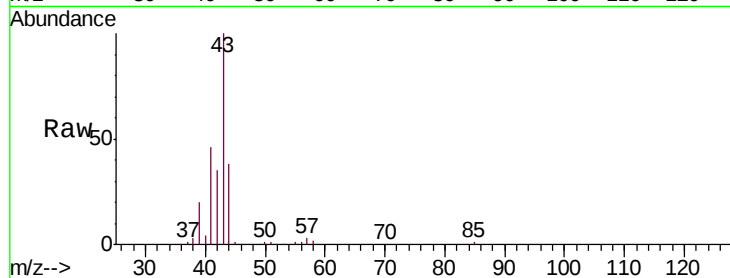
QA1DUP

Tgt Ion: 41 Resp: 86459

Ion Ratio Lower Upper

41 100

42 75.7 53.9 80.9



#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033569.D

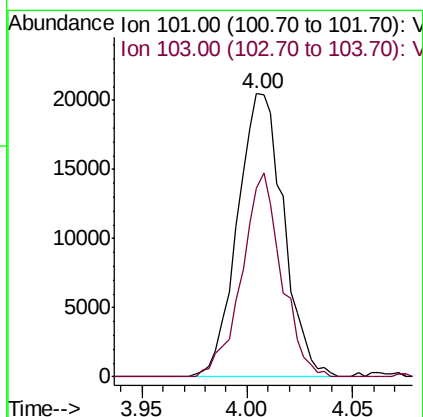
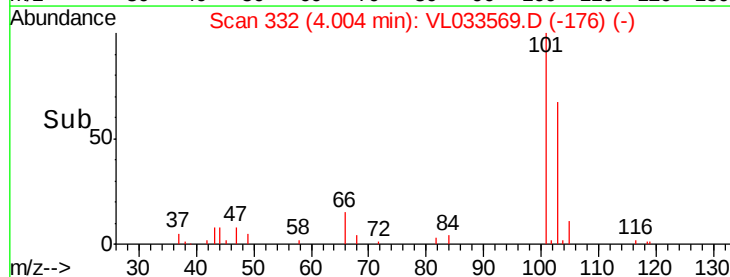
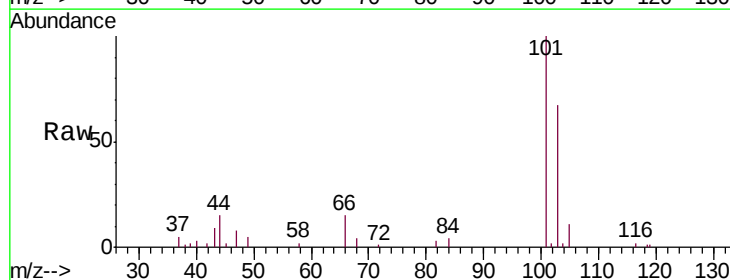
Acq: 10 Apr 2019 18:19

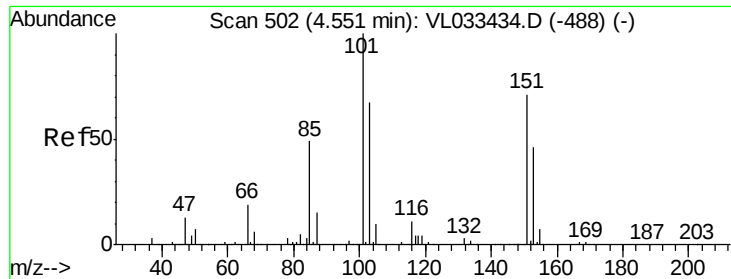
Tgt Ion: 101 Resp: 31048

Ion Ratio Lower Upper

101 100

103 66.7 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

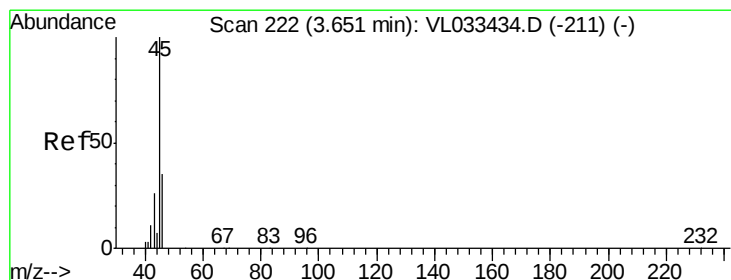
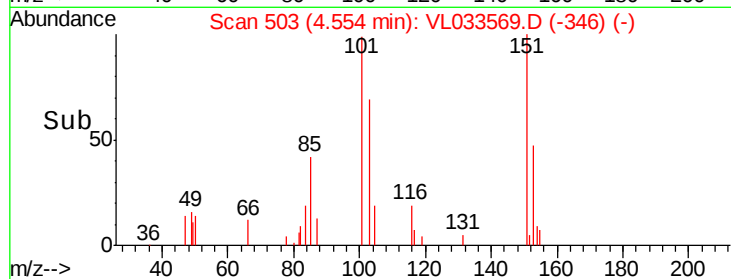
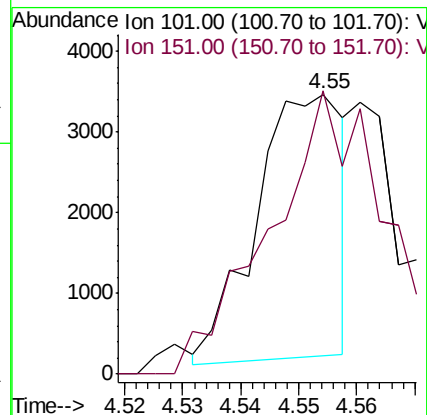
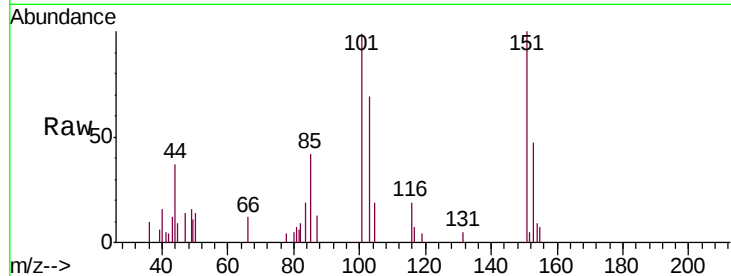
OA1DUP

Tgt Ion: 101 Resp: 3409

Ion Ratio Lower Upper

101 100

151 145.3 57.7 86.5#



#13

Ethanol

Concen: 30.278 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033569.D

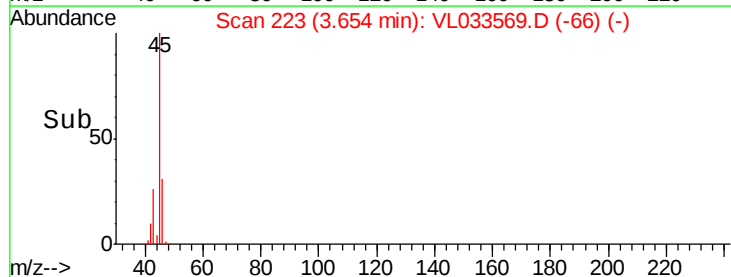
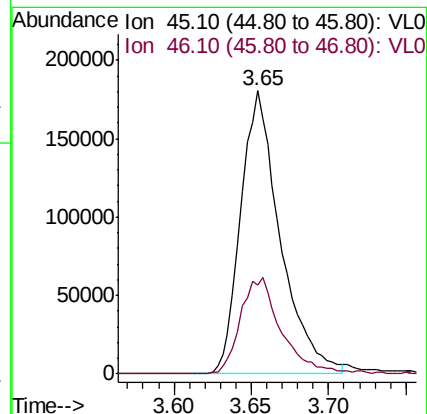
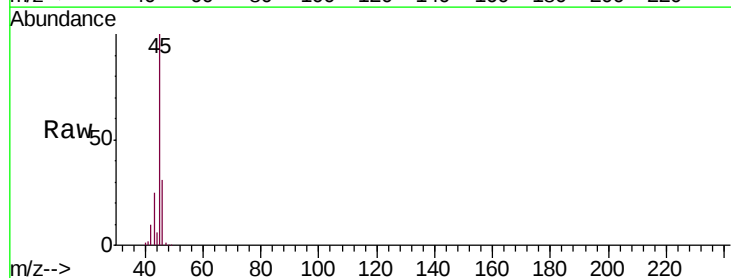
Acq: 10 Apr 2019 18:19

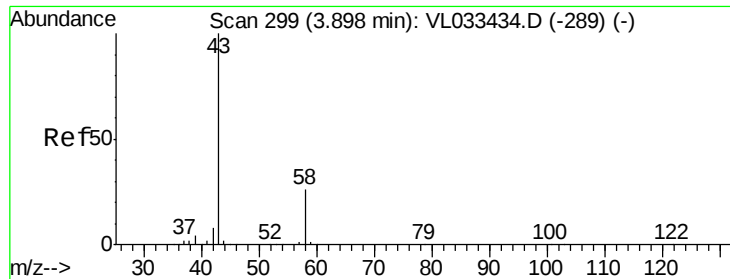
Tgt Ion: 45 Resp: 321206

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8





#15

Acetone

Concen: 4.295 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

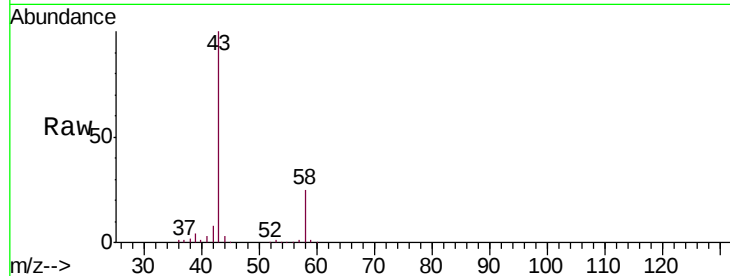
QA1DUP

Tgt Ion: 43 Resp: 437947

Ion Ratio Lower Upper

43 100

58 25.9 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

300000

250000

200000

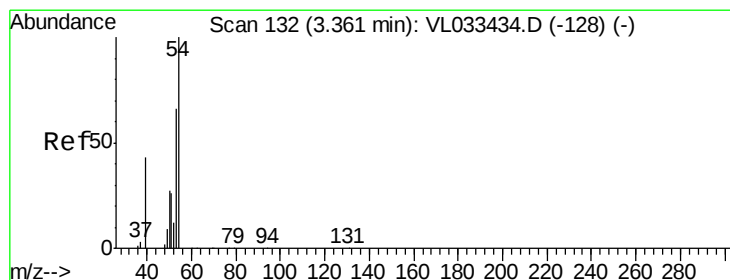
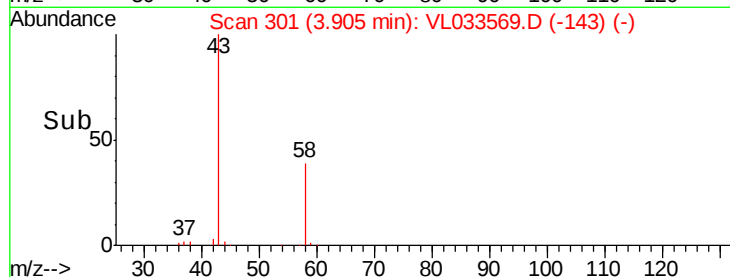
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 0.101 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.01 min

Lab File: VL033569.D

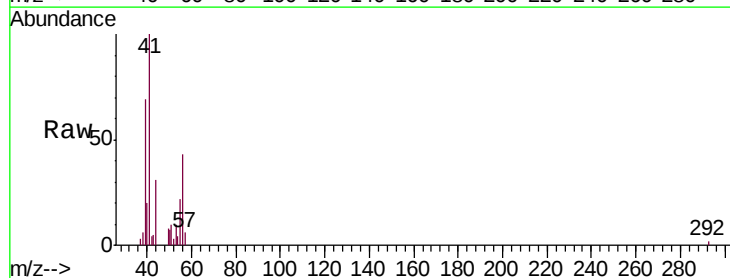
Acq: 10 Apr 2019 18:19

Tgt Ion: 39 Resp: 4094

Ion Ratio Lower Upper

39 100

54 105.8 69.4 104.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

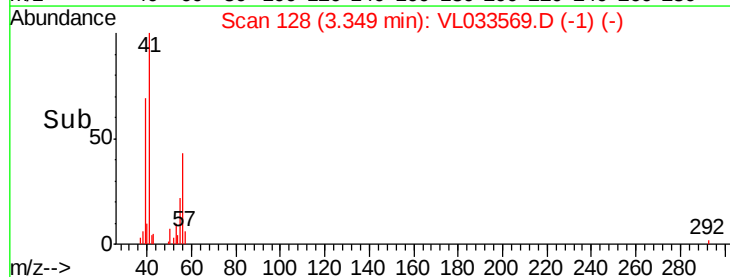
6000

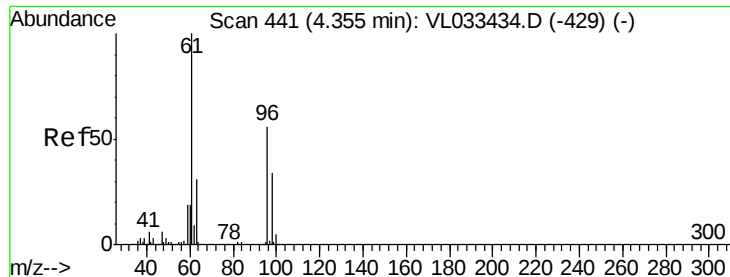
4000

2000

0

Time-->

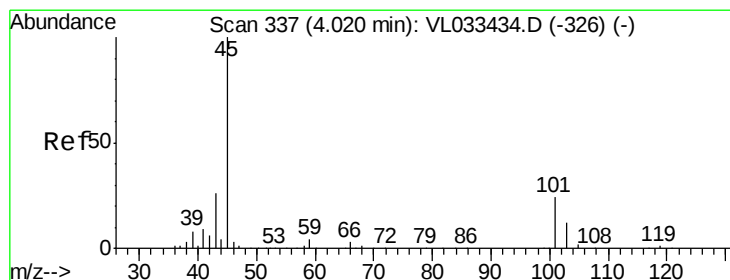
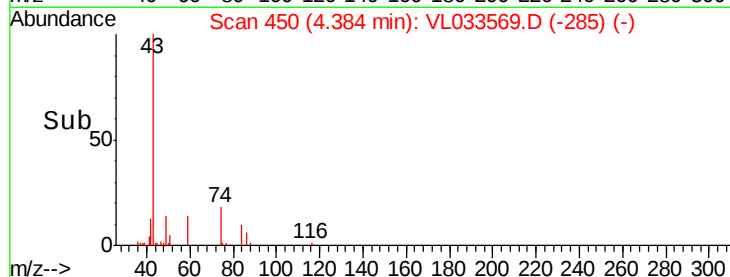
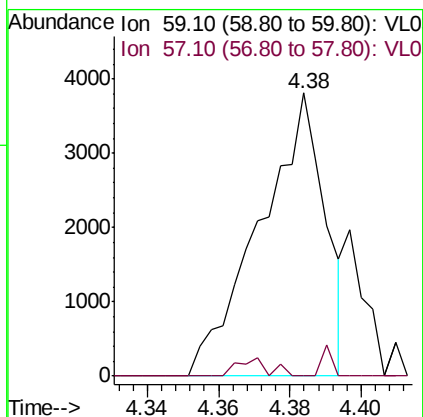
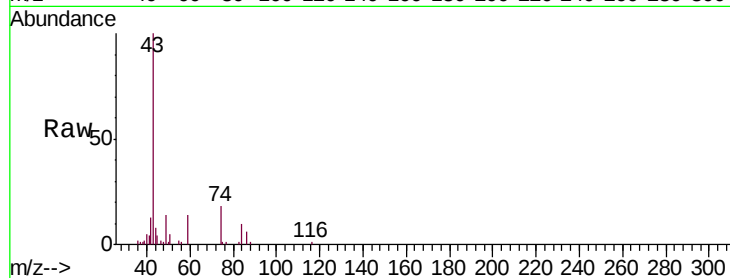




#17
 tert-Butyl alcohol
 Concen: 0.256 ppbv
 RT: 4.38 min Scan# 450
 Delta R.T. 0.03 min
 Lab File: VL033569.D
 Acq: 10 Apr 2019 18:19

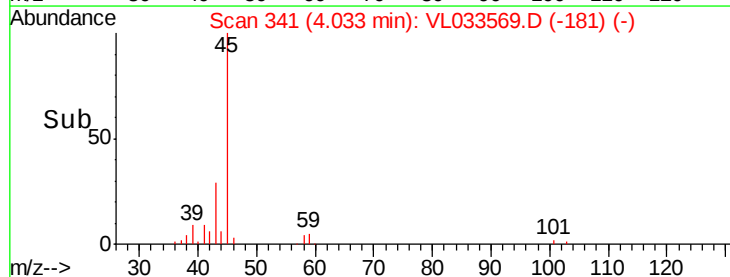
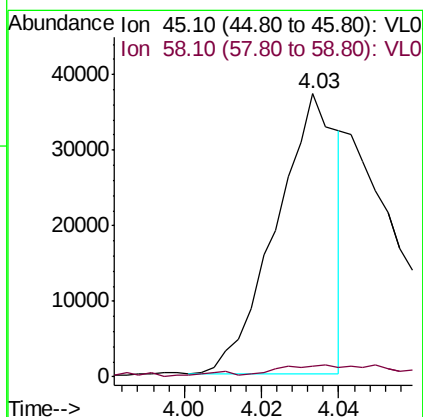
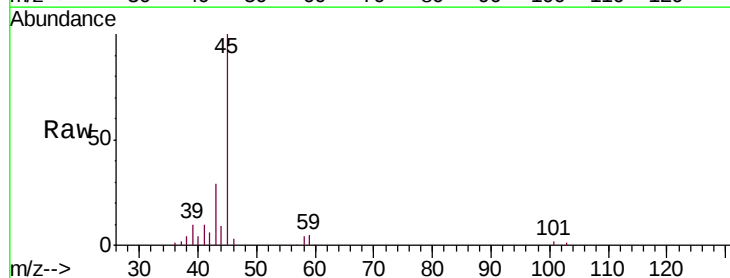
Instrument :
 MSVOA_L
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 QA1DUP

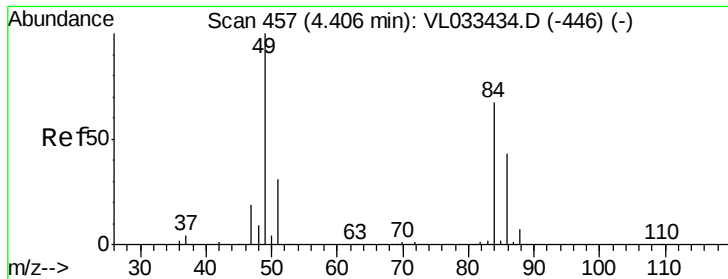
Tgt Ion: 59 Resp: 4805
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#



#19
 Isopropyl Alcohol
 Concen: 0.630 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VL033569.D
 Acq: 10 Apr 2019 18:19

Tgt Ion: 45 Resp: 40596
 Ion Ratio Lower Upper
 45 100
 58 11.5 1.4 2.2#

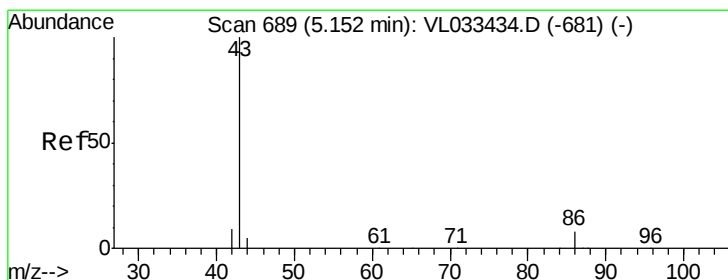
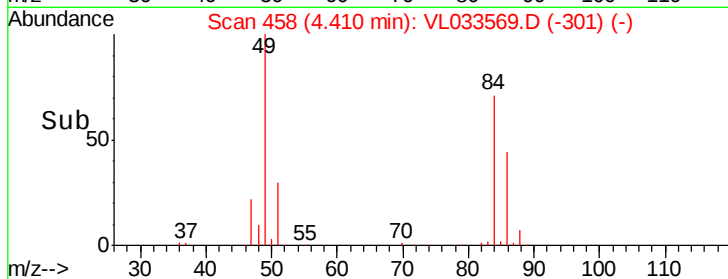
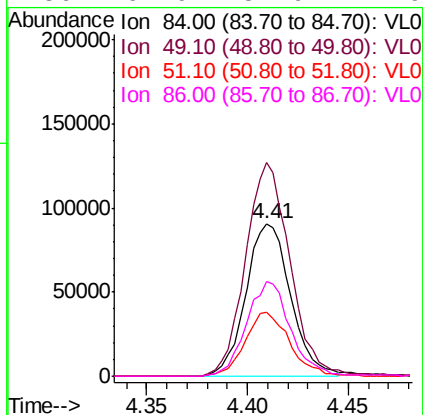
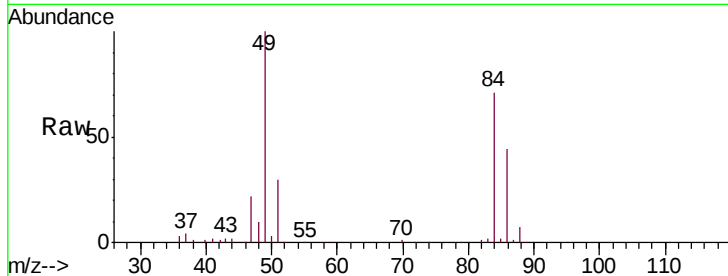




#20
Methylene Chloride
Concen: 3.248 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

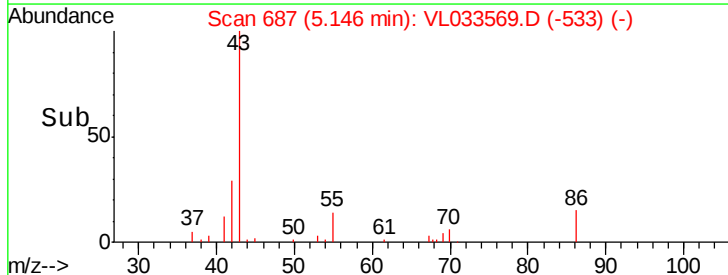
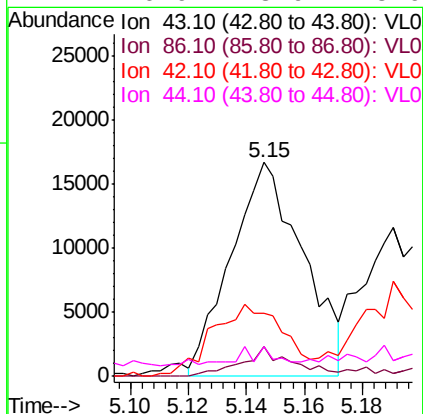
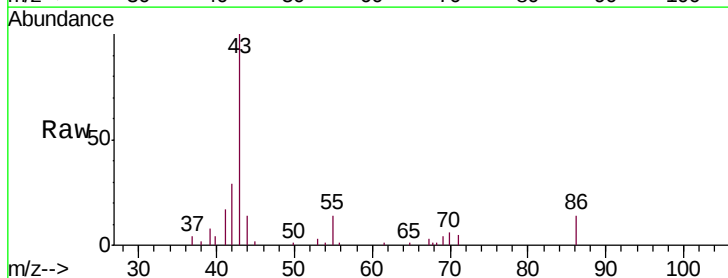
Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

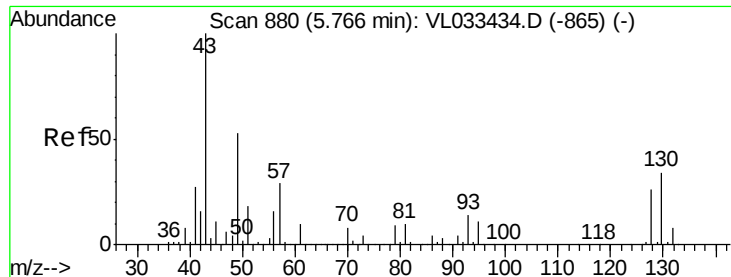
Tgt Ion:	84	Resp:	140590
Ion	Ratio	Lower	Upper
84	100		
49	140.2	120.0	180.0
51	42.2	36.7	55.1
86	61.9	51.9	77.9



#23
Vinyl Acetate
Concen: 0.198 ppbv
RT: 5.15 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

Tgt Ion:	43	Resp:	28757
Ion	Ratio	Lower	Upper
43	100		
86	14.3	5.6	8.4#
42	21.8	8.0	12.0#
44	6.9	3.9	5.9#

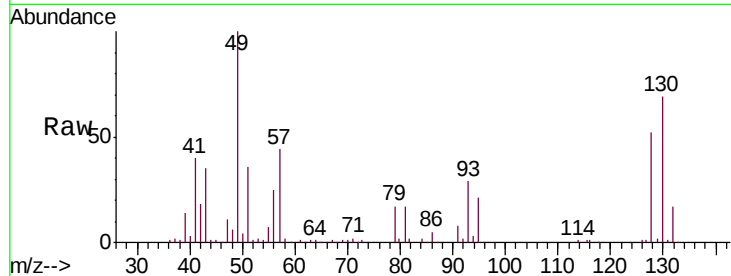




#25
Ethyl Acetate
Concen: 0.421 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tgt Ion:	43	Resp:	79682
Ion	Ratio	Lower	Upper
43	100		
45	5.2	7.8	11.6#
61	2.2	7.3	10.9#
70	3.1	5.6	8.4#



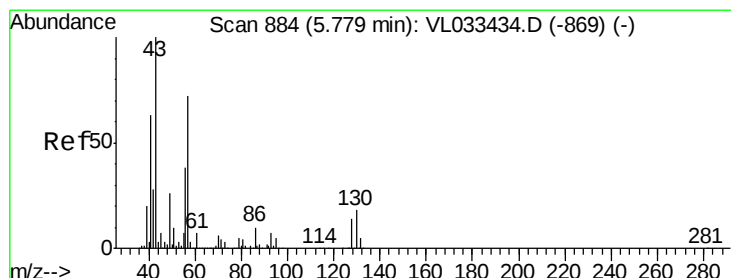
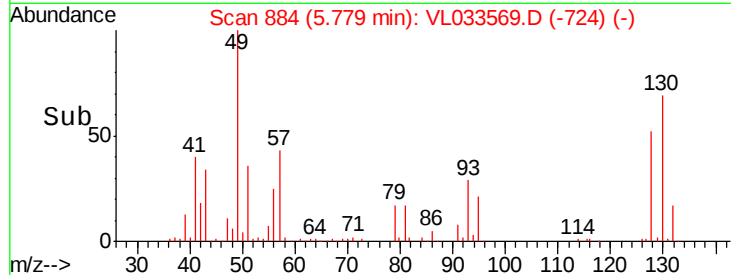
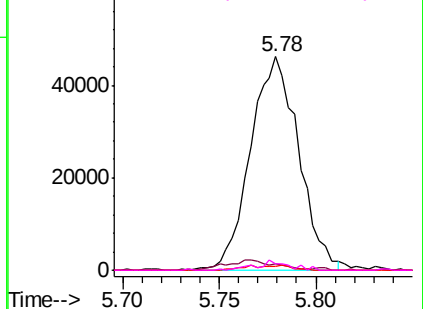
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

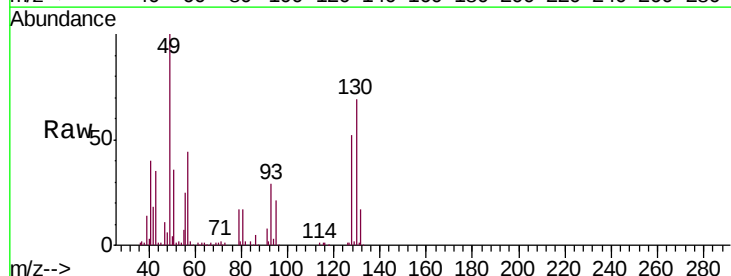
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.121 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

Tgt Ion:	57	Resp:	94263
Ion	Ratio	Lower	Upper
57	100		
41	97.7	70.7	106.1
43	85.7	182.6	274.0#
56	55.7	42.0	63.0



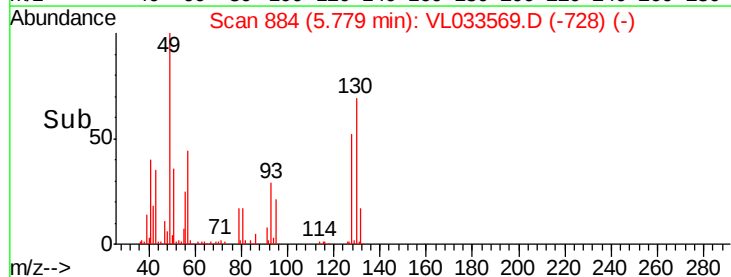
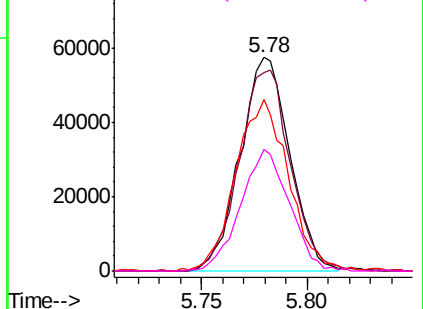
Abundance

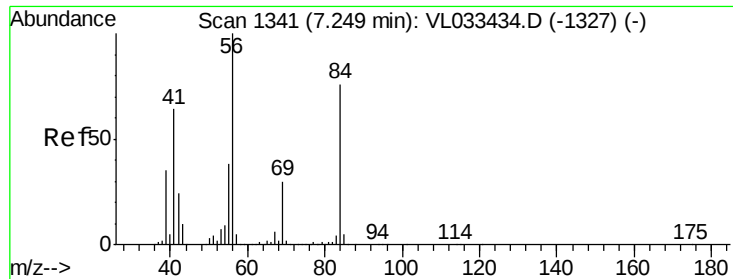
Ion 57.10 (56.80 to 57.80): VL0

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

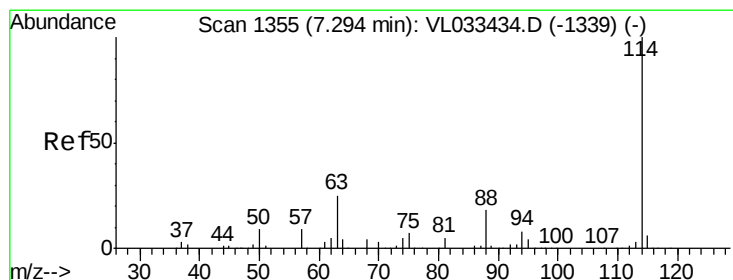
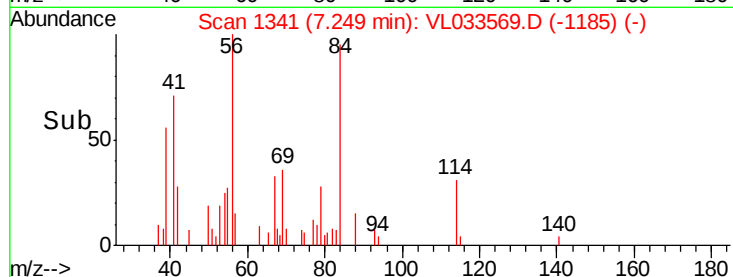
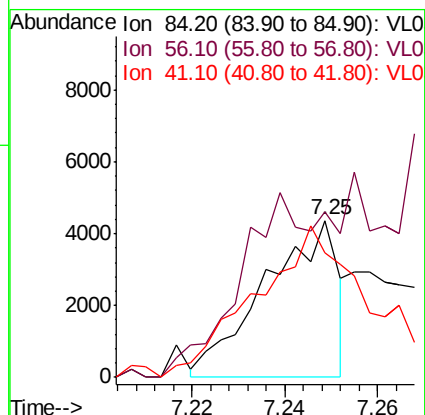
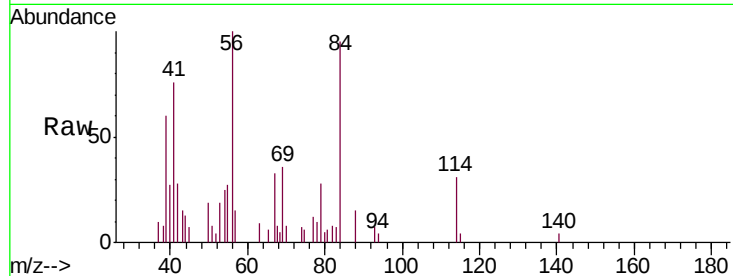




#30
Cyclohexane
Concen: 0.072 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

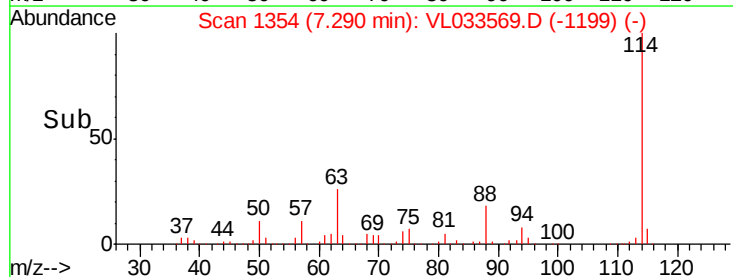
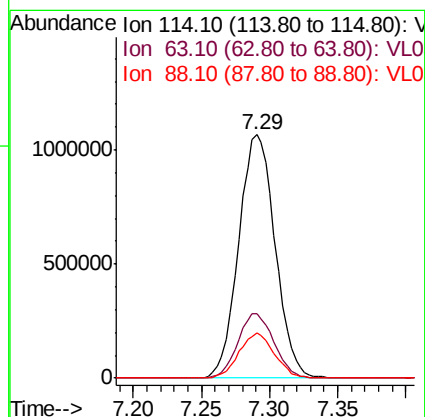
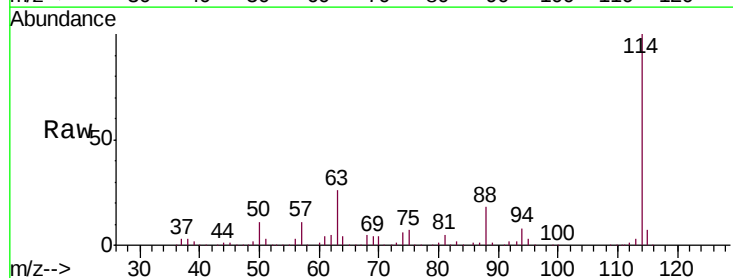
Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

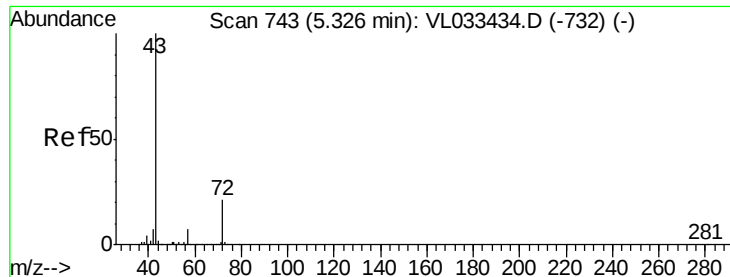
Tgt Ion: 84 Resp: 4766
Ion Ratio Lower Upper
84 100
56 0.0 109.7 164.5#
41 164.0 68.2 102.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

Tgt Ion: 114 Resp: 1980468
Ion Ratio Lower Upper
114 100
63 26.4 21.5 32.3
88 18.1 14.5 21.7

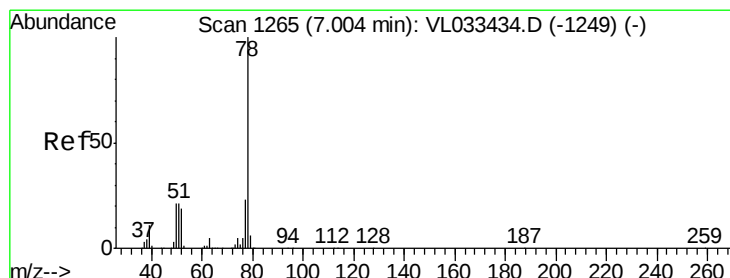
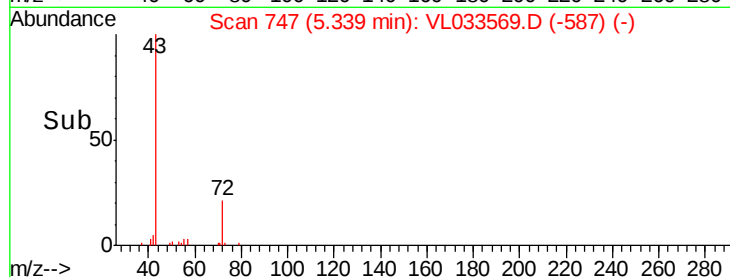
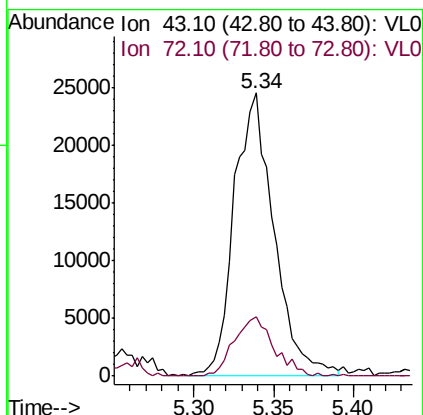
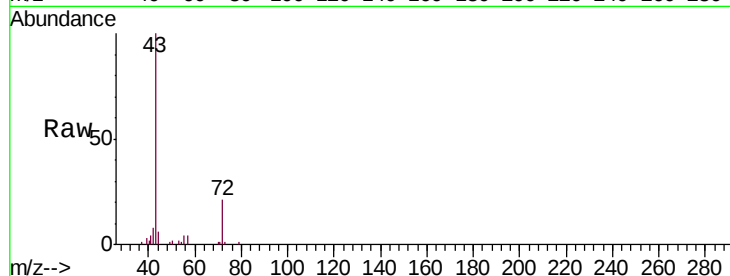




#34
2-Butanone
Concen: 0.349 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.01 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

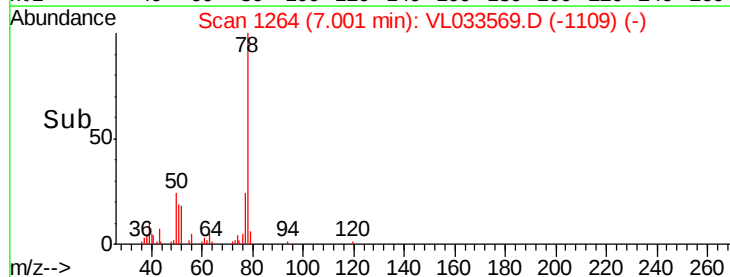
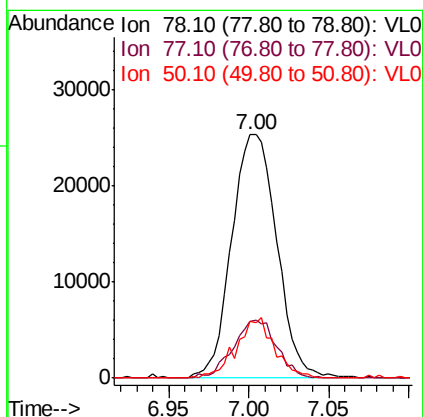
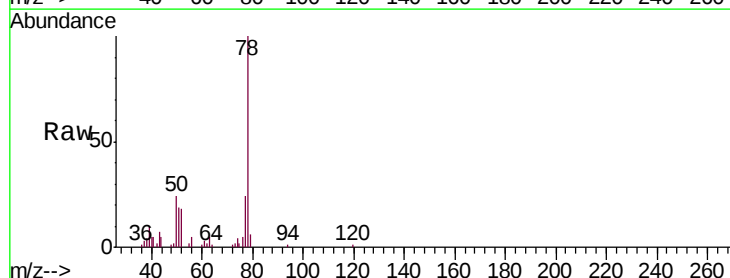
Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

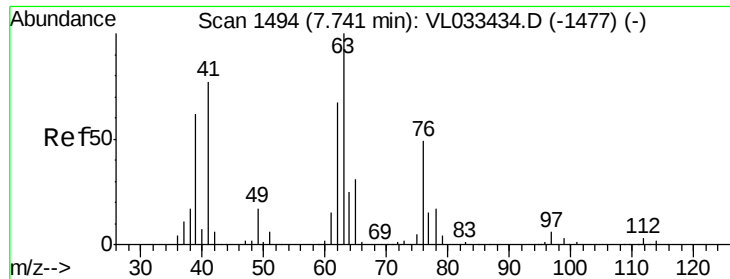
Tgt Ion: 43 Resp: 41584
Ion Ratio Lower Upper
43 100
72 20.8 17.4 26.2



#36
Benzene
Concen: 0.293 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033569.D
Acq: 10 Apr 2019 18:19

Tgt Ion: 78 Resp: 48705
Ion Ratio Lower Upper
78 100
77 23.6 18.1 27.1
50 23.5 16.7 25.1





#39

1,2-Dichloropropane

Concen: 7.989 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

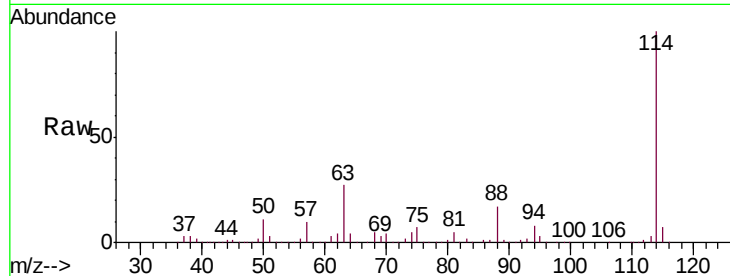
Tgt Ion: 63 Resp: 520073

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

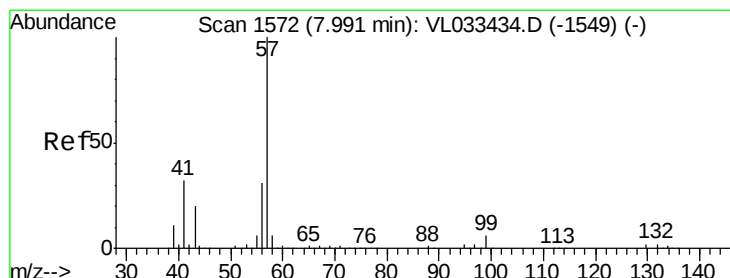
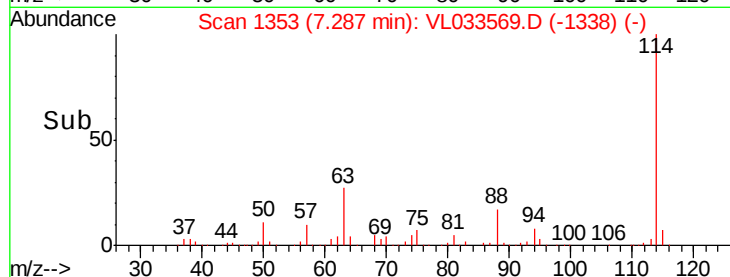
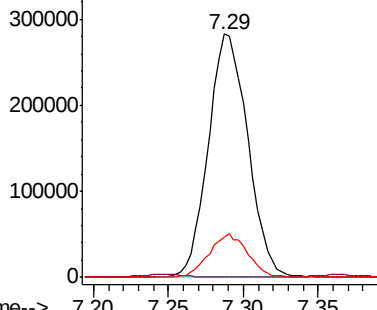
62 16.2 54.0 81.0#



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



#44

2,2,4-Trimethylpentane

Concen: 0.063 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

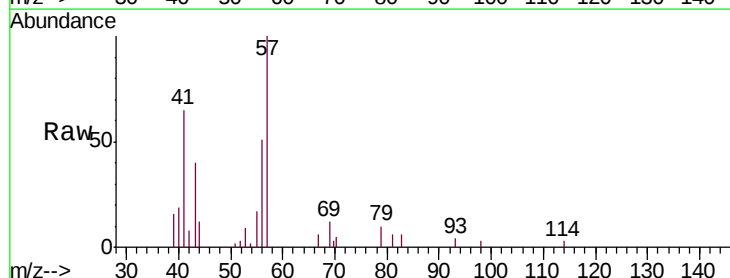
Tgt Ion: 57 Resp: 18400

Ion Ratio Lower Upper

57 100

41 59.5 26.0 39.0#

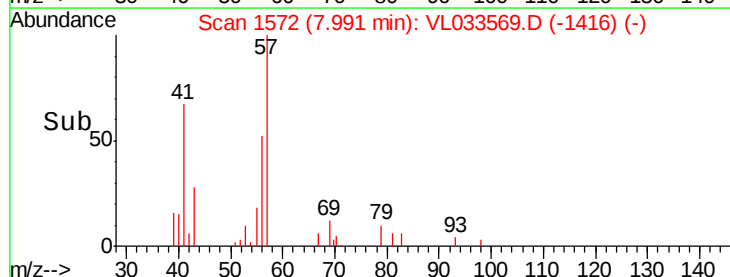
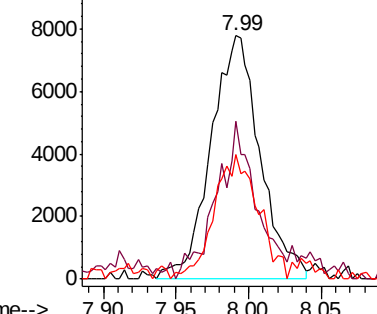
56 49.3 24.6 37.0#

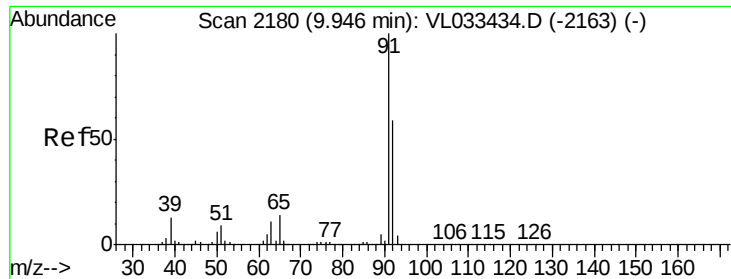


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.634 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

Instrument :

MSVOA_L

ClientSampleId :

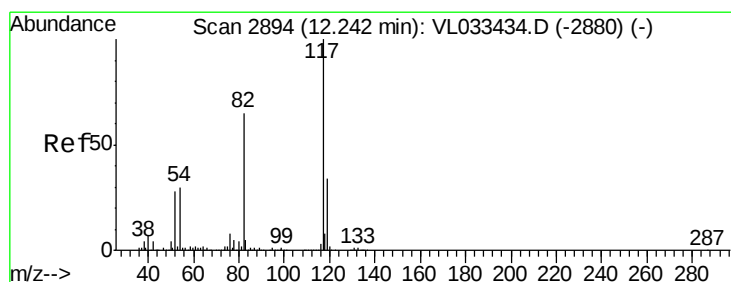
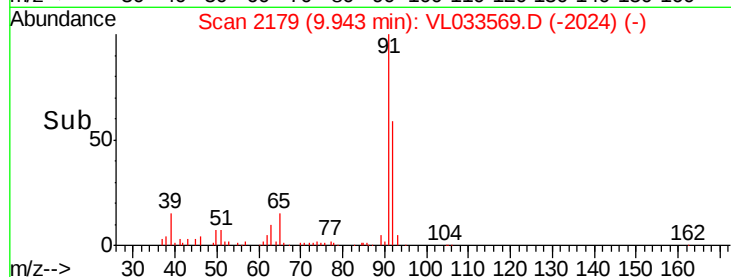
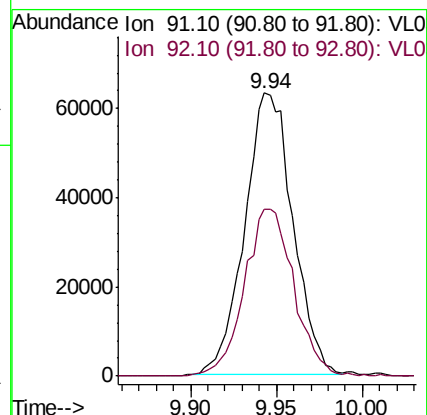
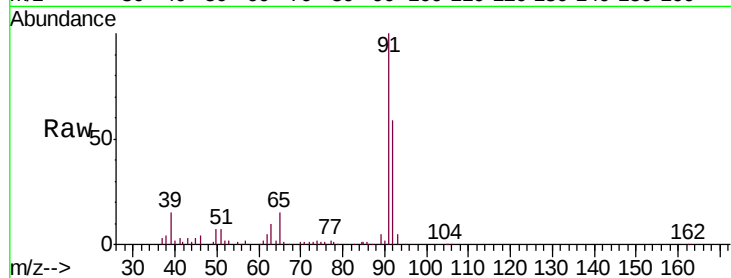
QA1DUP

Tgt Ion: 91 Resp: 122415

Ion Ratio Lower Upper

91 100

92 61.4 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033569.D

Acq: 10 Apr 2019 18:19

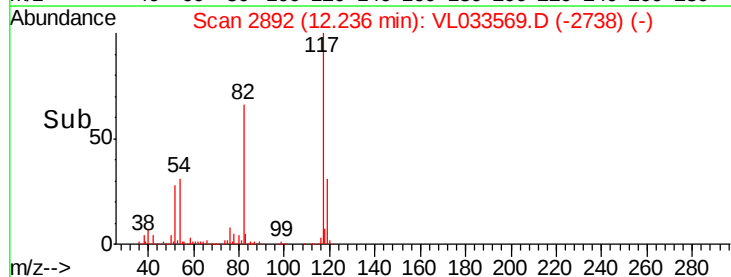
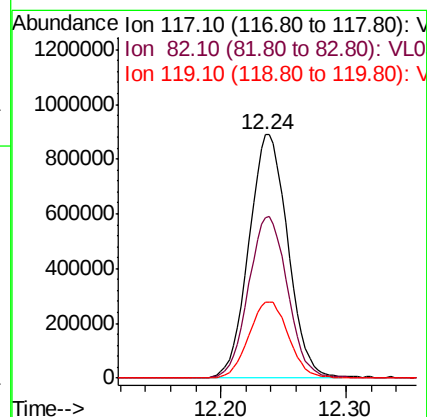
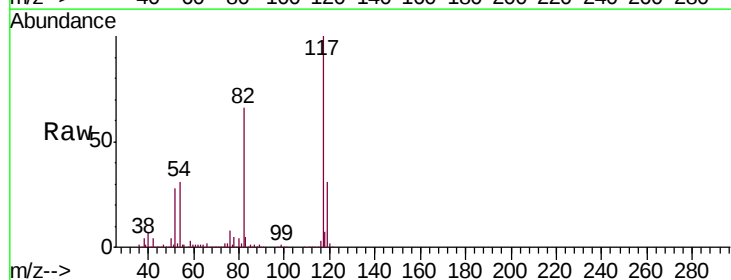
Tgt Ion: 117 Resp: 1918756

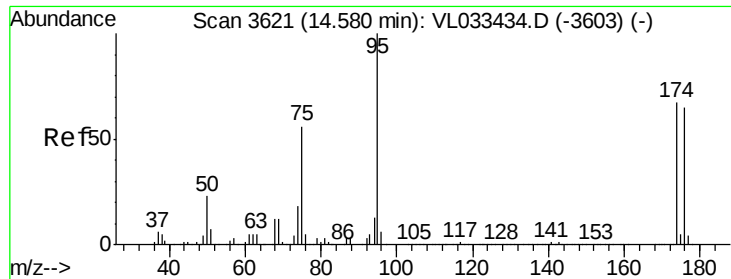
Ion Ratio Lower Upper

117 100

82 67.1 51.5 77.3

119 32.1 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.198 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033569.D
 Acq: 10 Apr 2019 18:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion: 95 Resp: 1534095
 Ion Ratio Lower Upper
 95 100
 174 67.5 52.9 79.3
 175 4.9 3.8 5.6

