

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032342.D
 Acq On : 2 Aug 2018 3:59
 Operator : SY/AP
 Sample : J4258-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

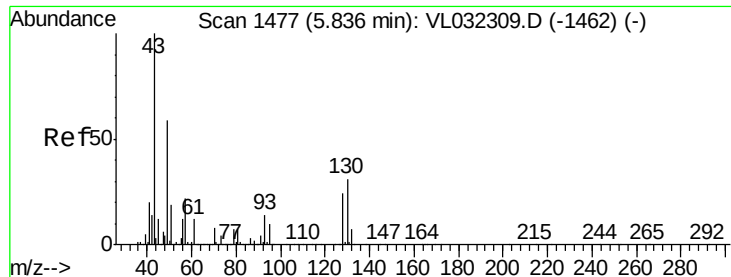
Quant Time: Aug 02 06:45:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1809734	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4542327	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4427525	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.65	95	3550216	10.33	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.05	51	13618	0.075	ppbv #	87
4) Chloromethane	3.22	50	19570	0.179	ppbv	94
9) Propene	3.08	41	577391	7.097	ppbv	95
10) Heptane	8.32	43	17255	0.060	ppbv #	1
13) Ethanol	3.70	45	62932	2.691	ppbv #	23
15) Acetone	3.95	43	10310851	60.451	ppbv #	85
16) 1,3-Butadiene	3.39	39	2235263	25.277	ppbv #	8
17) tert-Butyl alcohol	4.41	59	3920440	72.317	ppbv	97
19) Isopropyl Alcohol	4.08	45	170957	1.502	ppbv #	95
20) Methylene Chloride	4.47	84	26909	0.393	ppbv #	91
21) Allyl Chloride	4.48	41	26868	0.231	ppbv #	62
23) Vinyl Acetate	5.20	43	215662	0.705	ppbv #	56
25) Ethyl Acetate	5.84	43	72142	0.188	ppbv #	84
26) Hexane	5.84	57	62047	0.358	ppbv #	1
27) Carbon Disulfide	4.68	76	63484	0.403	ppbv #	83
30) Cyclohexane	7.32	84	22516	0.167	ppbv #	17
34) 2-Butanone	5.39	43	6214653	21.138	ppbv	98
36) Benzene	7.08	78	123427	0.308	ppbv	94
39) 1,2-Dichloropropane	7.36	63	1249280	6.202	ppbv #	26
44) 2,2,4-Trimethylpentane	8.07	57	127286	0.147	ppbv #	40
51) 2-Hexanone	10.35	43	564938	1.429	ppbv	97
53) Toluene	10.02	91	24187	0.051	ppbv #	20

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL032342.D

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Instrument :

MSVOA_L

ClientSampleId :

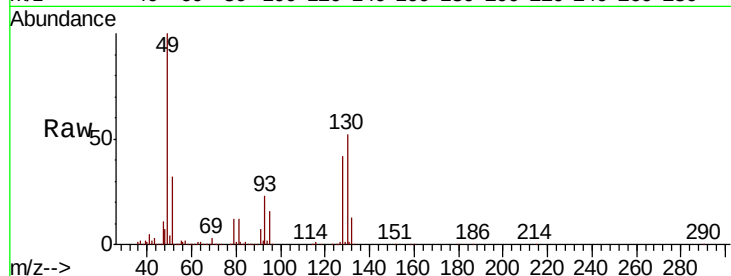
Tot Ion: 49 Resp: 1809734

Ion Ratio Lower Upper

49 100

128 41.3 20.2 60.6

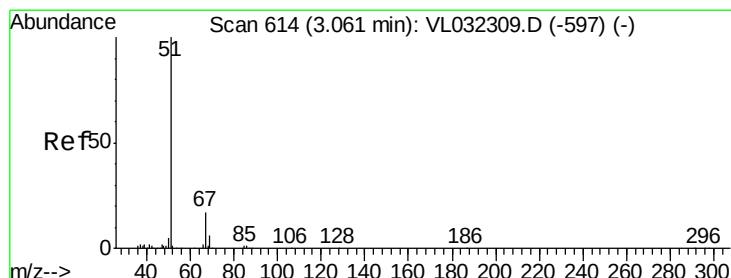
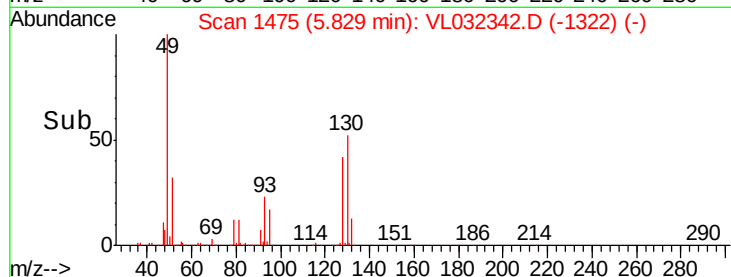
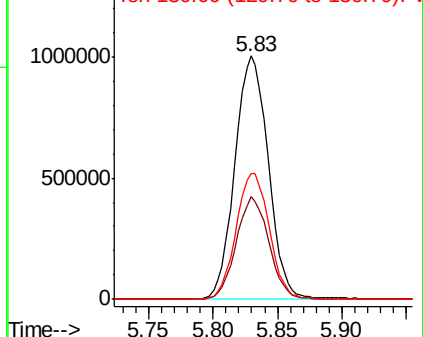
130 52.0 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.075 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032342.D

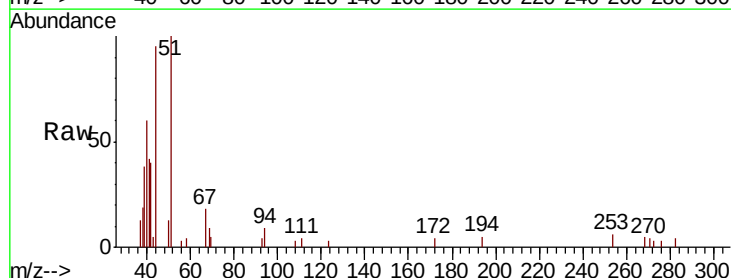
Acq: 2 Aug 2018 3:59

Tgt Ion: 51 Resp: 13618

Ion Ratio Lower Upper

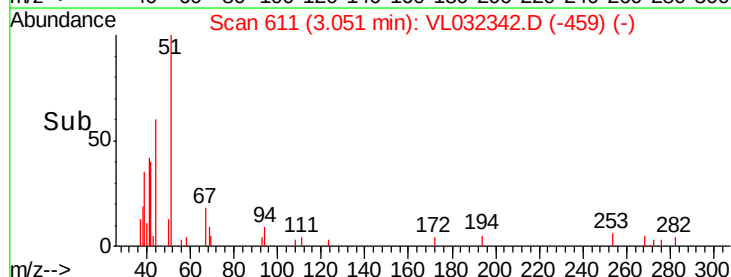
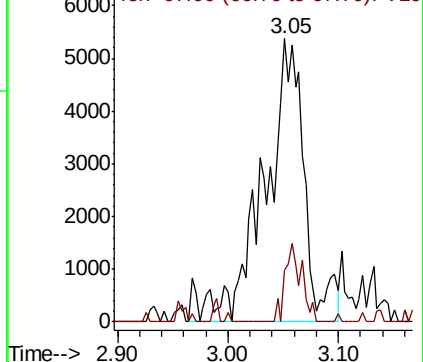
51 100

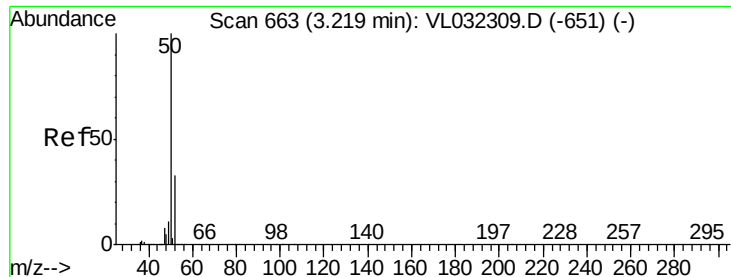
67 11.2 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.179 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

Instrument :

MSVOA_L

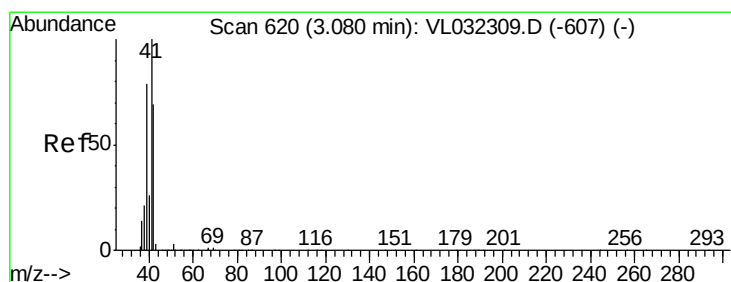
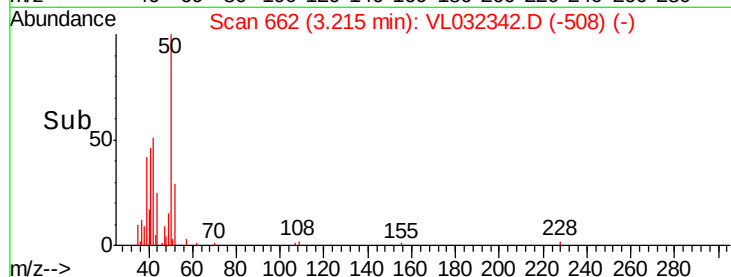
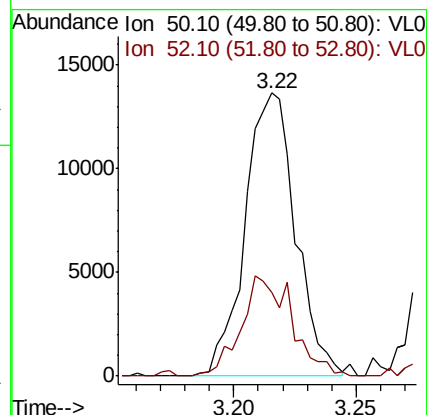
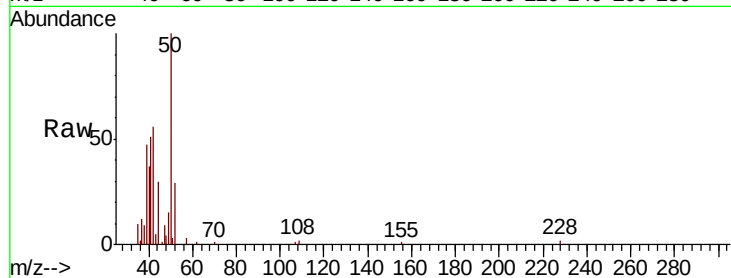
ClientSampleId :

Tot Ion: 50 Resp: 19570

Ion Ratio Lower Upper

50 100

52 29.5 26.2 39.4



#9

Propene

Concen: 7.097 ppbv

RT: 3.08 min Scan# 619

Delta R.T. -0.00 min

Lab File: VL032342.D

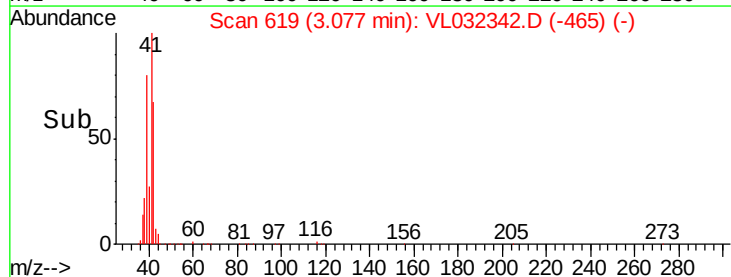
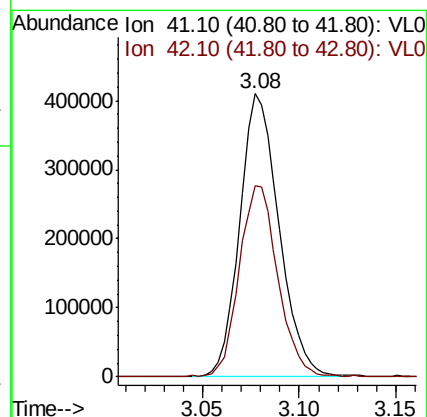
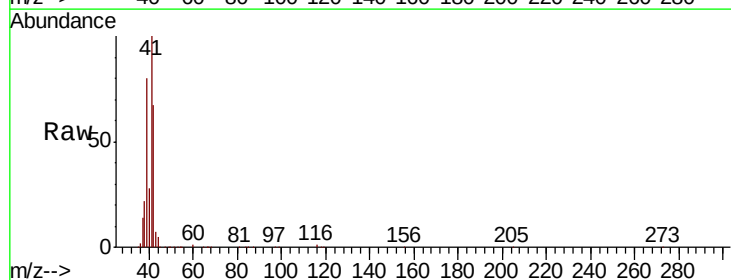
Acq: 2 Aug 2018 3:59

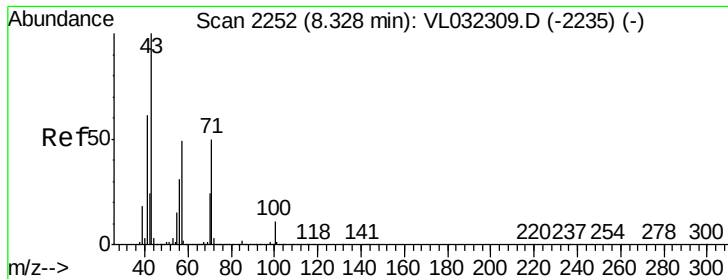
Tgt Ion: 41 Resp: 577391

Ion Ratio Lower Upper

41 100

42 66.8 56.8 85.2

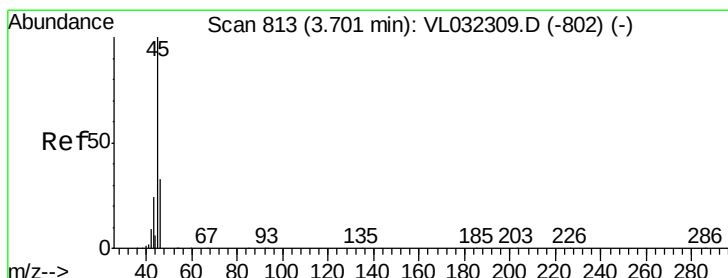
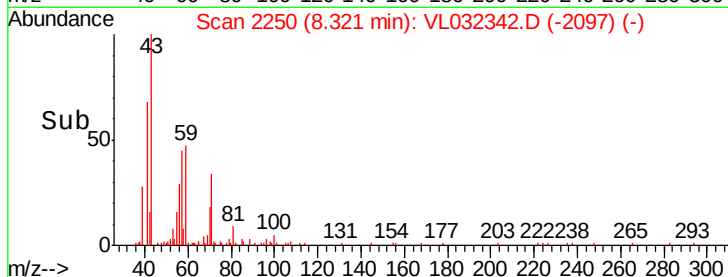
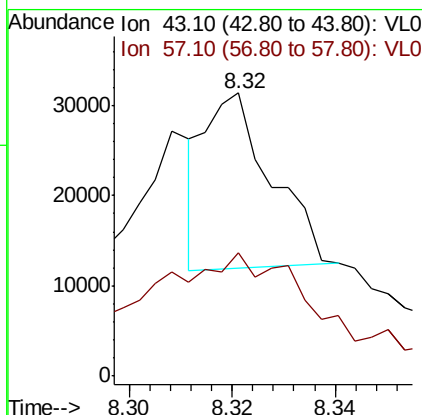
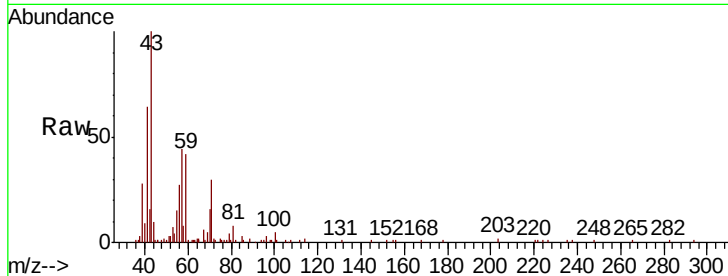




#10
Heptane
Concen: 0.060 ppbv
RT: 8.32 min Scan# 2250
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

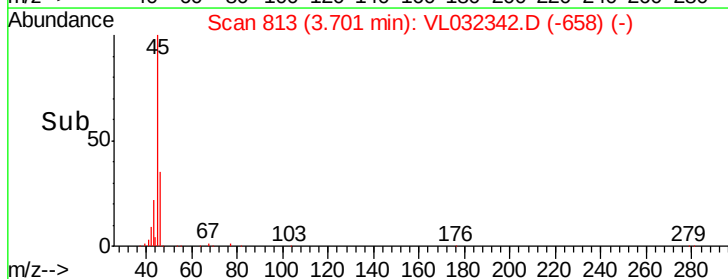
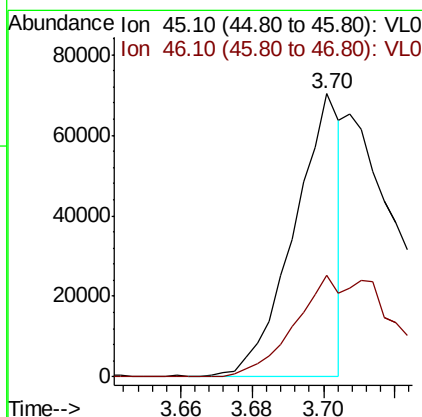
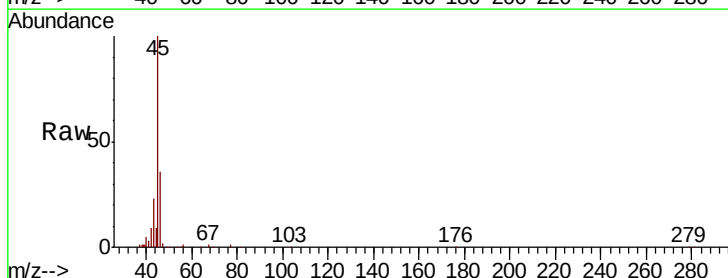
Instrument :
MSVOA_L
ClientSampleId :

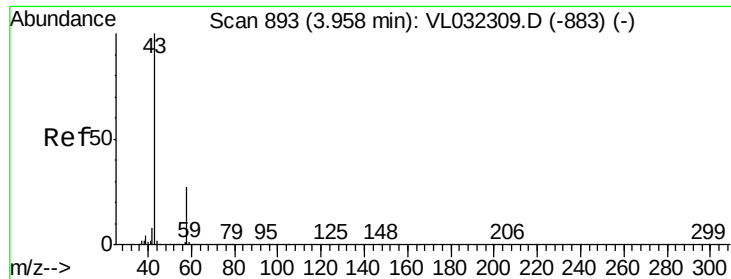
Tot Ion: 43 Resp: 17255
Ion Ratio Lower Upper
43 100
57 122.6 39.0 58.4#



#13
Ethanol
Concen: 2.691 ppbv
RT: 3.70 min Scan# 813
Delta R.T. -0.00 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 45 Resp: 62932
Ion Ratio Lower Upper
45 100
46 84.5 15.2 60.6#





#15

Acetone

Concen: 60.451 ppbv

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

Instrument :

MSVOA_L

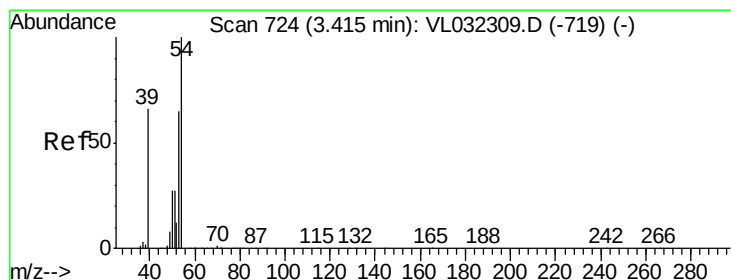
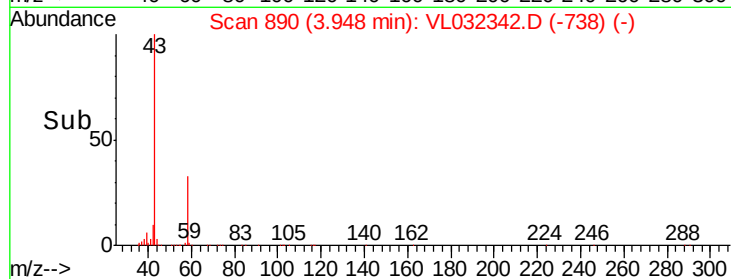
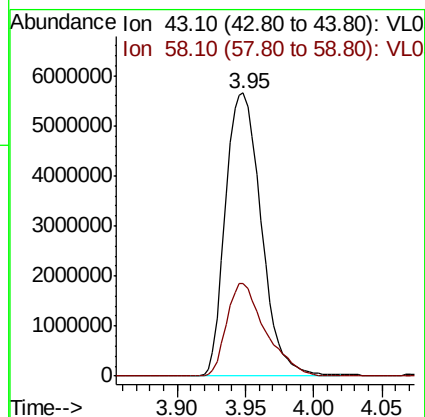
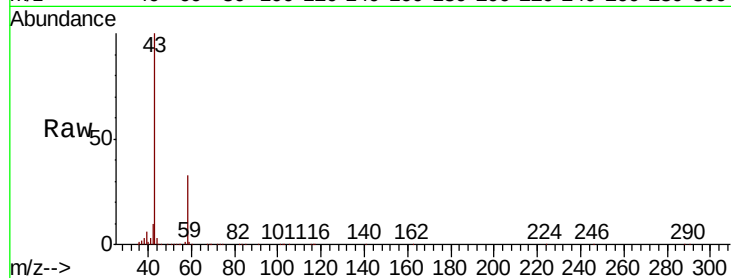
ClientSampleId :

Tot Ion: 43 Resp:10310851

Ion Ratio Lower Upper

43 100

58 35.8 22.5 33.7#



#16

1,3-Butadiene

Concen: 25.277 ppbv

RT: 3.39 min Scan# 715

Delta R.T. -0.03 min

Lab File: VL032342.D

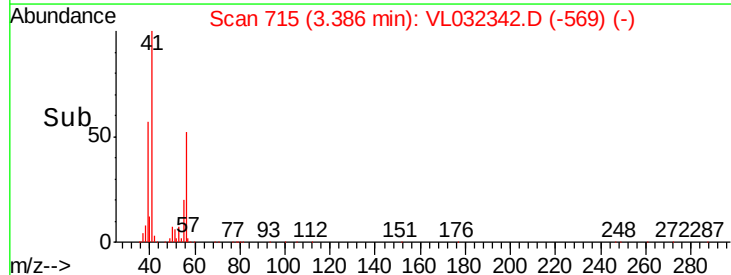
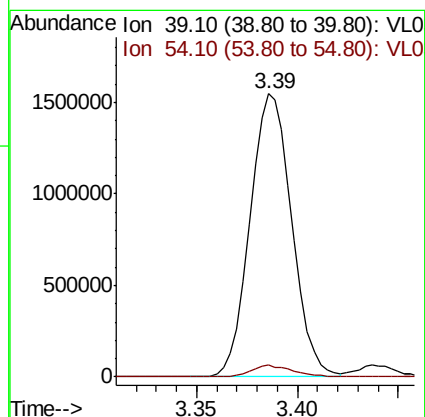
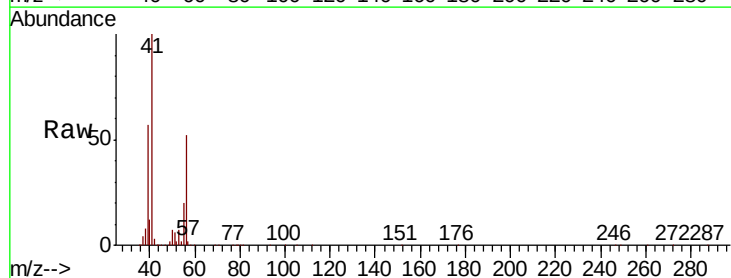
Acq: 2 Aug 2018 3:59

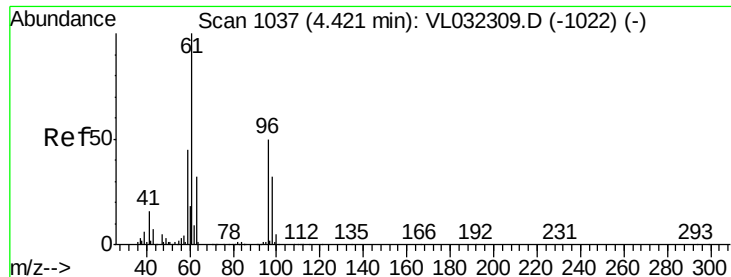
Tgt Ion: 39 Resp: 2235263

Ion Ratio Lower Upper

39 100

54 4.3 74.3 111.5#





#17

tert-Butyl alcohol

Concen: 72.317 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

Instrument :

MSVOA_L

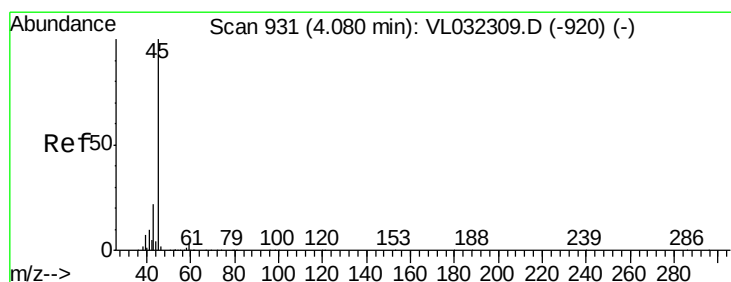
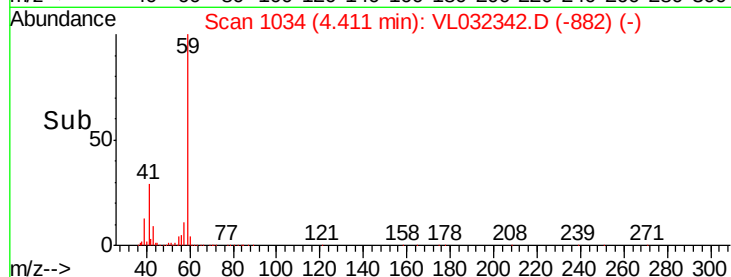
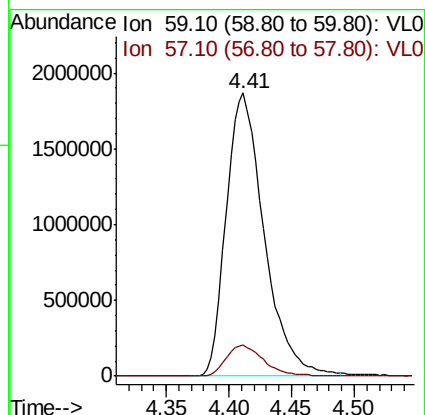
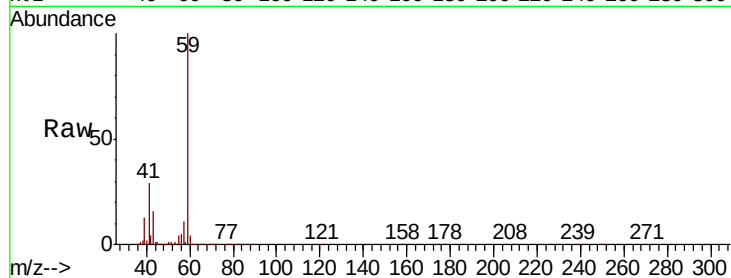
ClientSampleId :

Tot Ion: 59 Resp: 3920440

Ion Ratio Lower Upper

59 100

57 11.0 8.0 12.0



#19

Isopropyl Alcohol

Concen: 1.502 ppbv

RT: 4.08 min Scan# 931

Delta R.T. -0.00 min

Lab File: VL032342.D

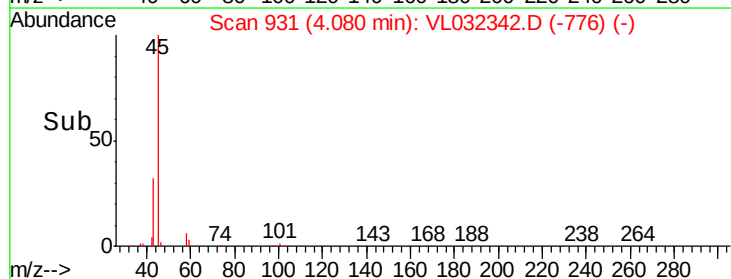
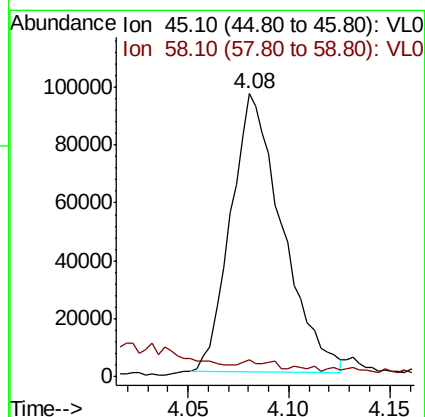
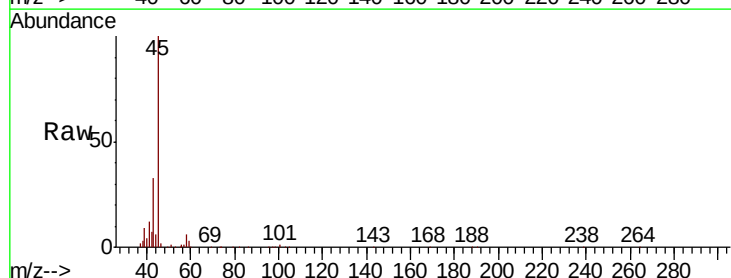
Acq: 2 Aug 2018 3:59

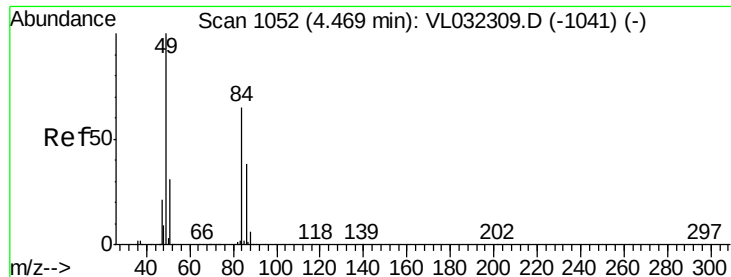
Tgt Ion: 45 Resp: 170957

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

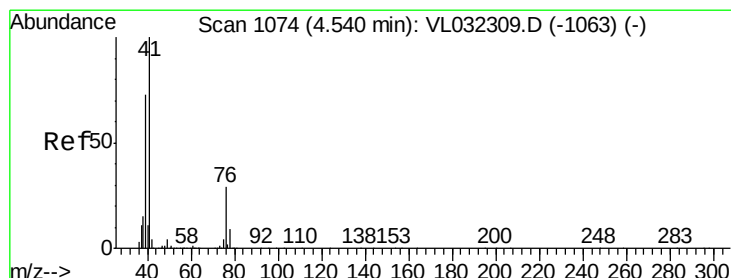
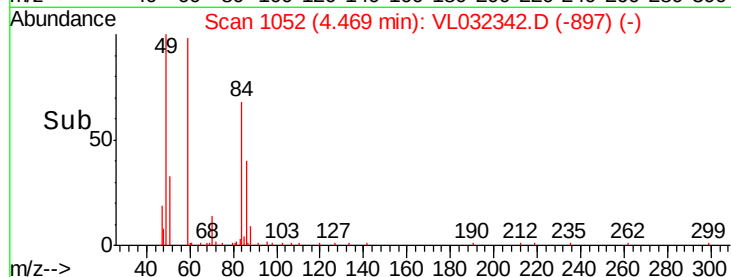
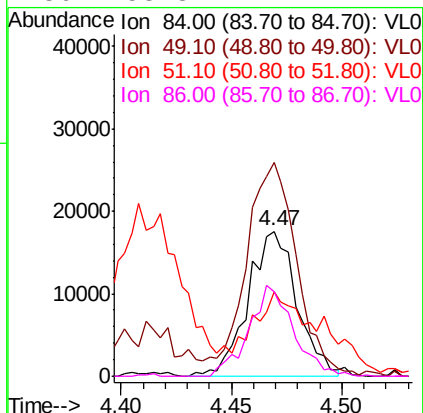
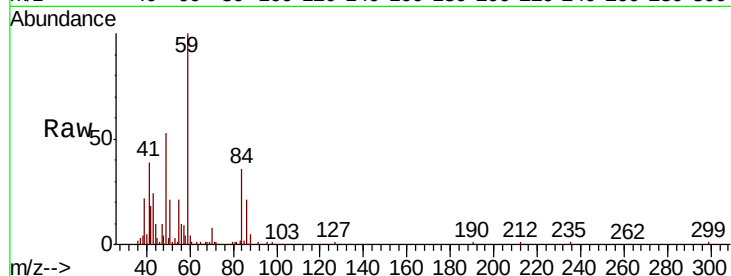




#20
Methvlene Chloride
Concen: 0.393 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

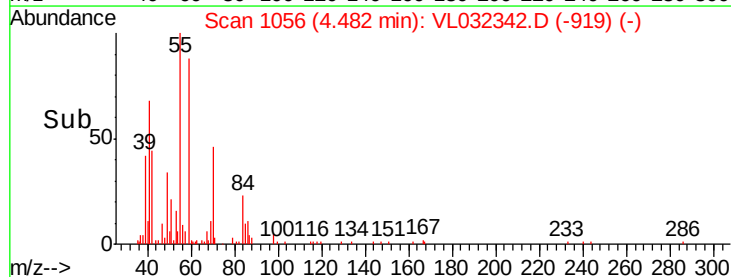
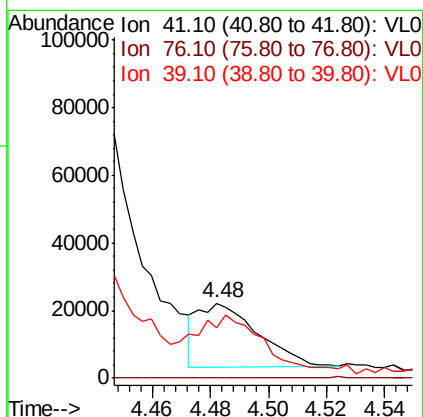
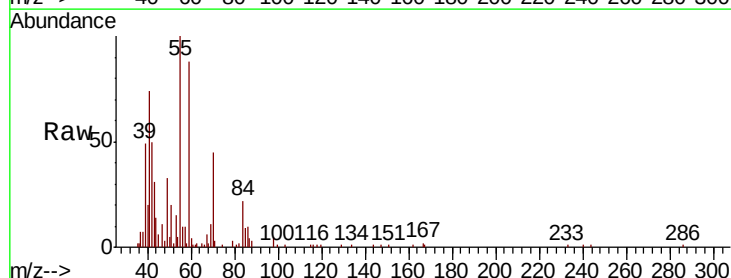
Instrument :
MSVOA_L
ClientSampleId :

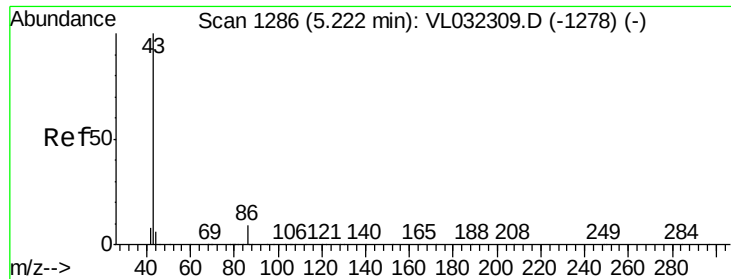
Tot Ion	Ratio	Lower	Upper
84	100		
49	142.1	123.4	185.0
51	35.5	38.2	57.2#
86	58.8	47.4	71.2



#21
Allyl Chloride
Concen: 0.231 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.06 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.1	34.7#
39	99.0	58.2	87.2#





#23

Vinyl Acetate

Concen: 0.705 ppbv

RT: 5.20 min Scan# 1280

Delta R.T. -0.02 min

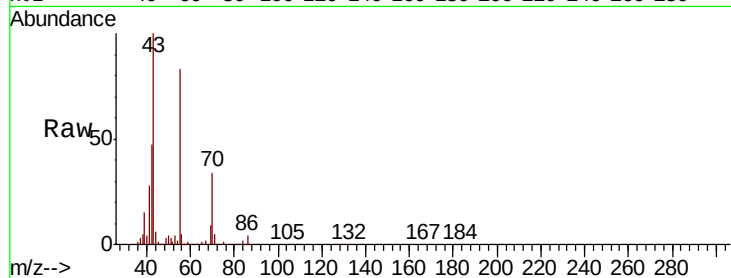
Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

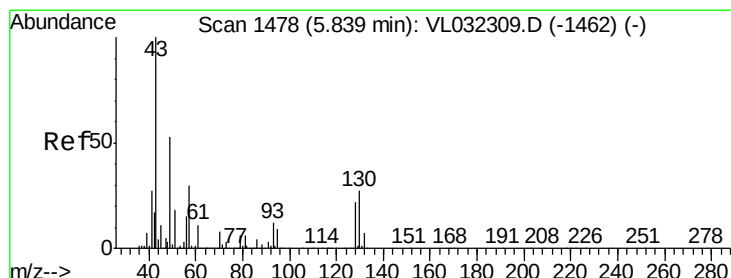
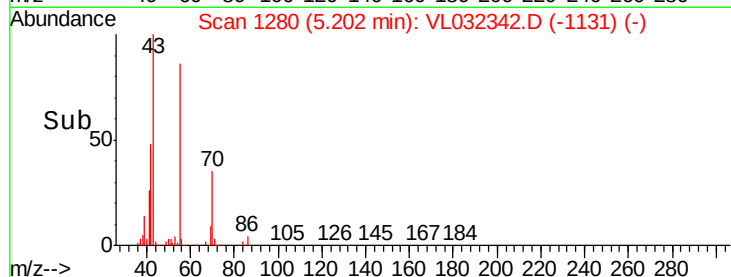
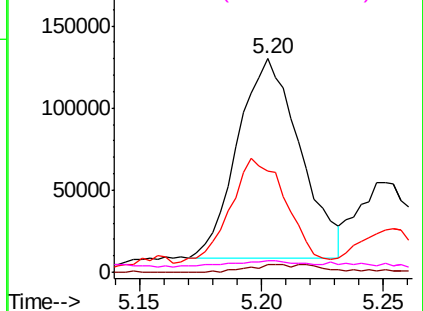
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 215662

Ion	Ratio	Lower	Upper
43	100		
86	3.9	6.3	9.5#
42	43.6	7.0	10.4#
44	3.1	4.6	7.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.188 ppbv

RT: 5.84 min Scan# 1479

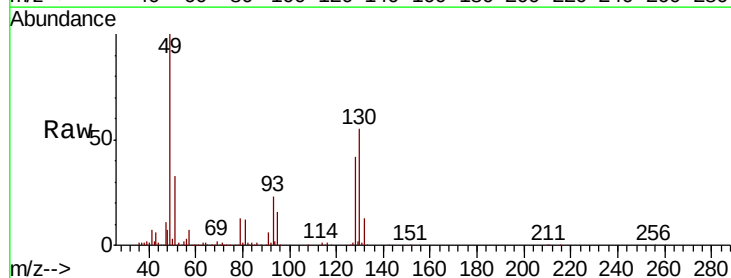
Delta R.T. 0.00 min

Lab File: VL032342.D

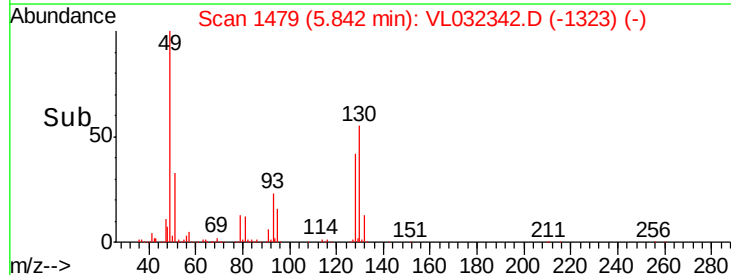
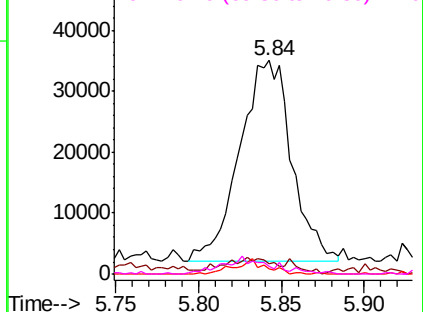
Acq: 2 Aug 2018 3:59

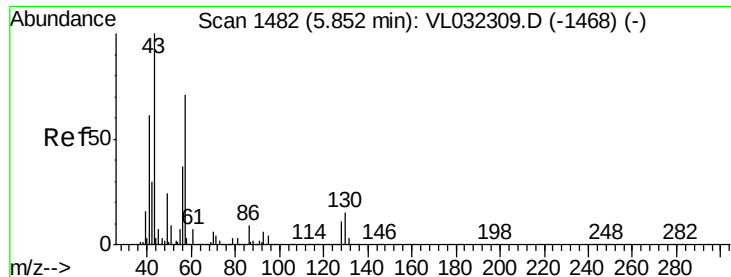
Tgt Ion: 43 Resp: 72142

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	4.4	7.4	11.0#
70	8.1	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

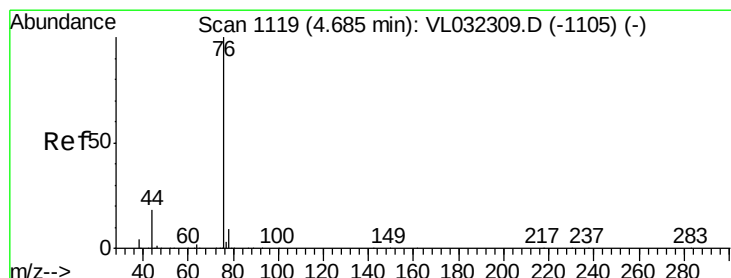
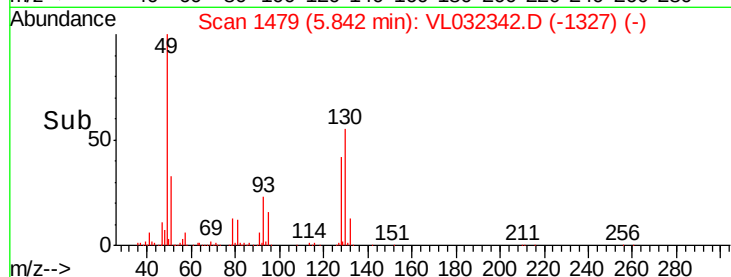
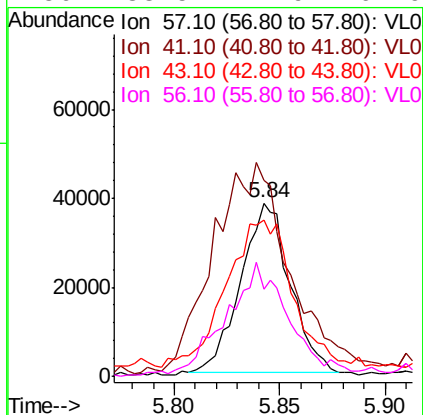
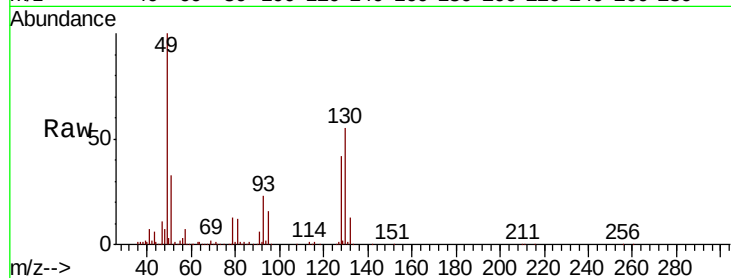




#26
Hexane
Concen: 0.358 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

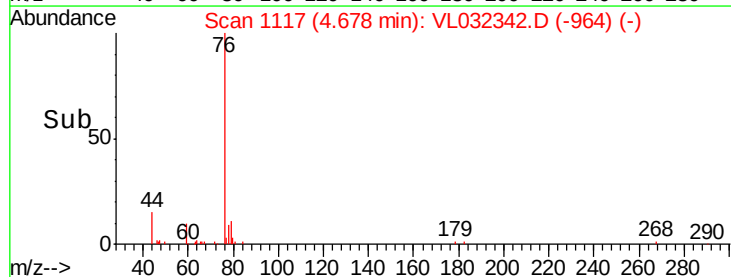
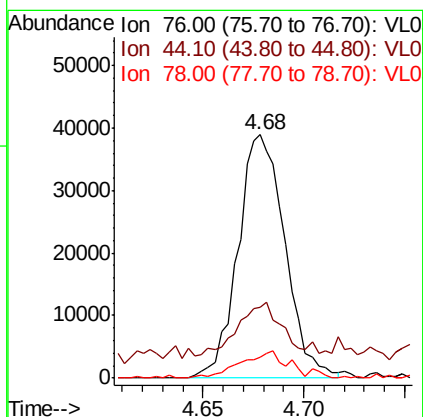
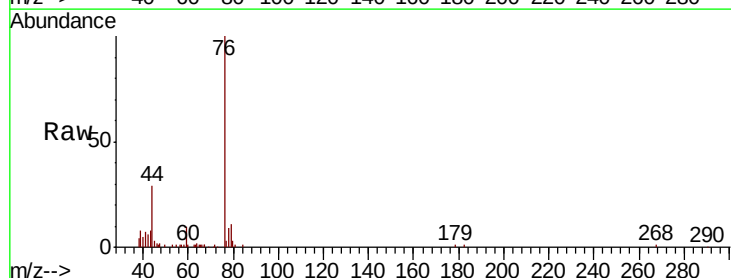
Instrument :
MSVOA_L
ClientSampleId :

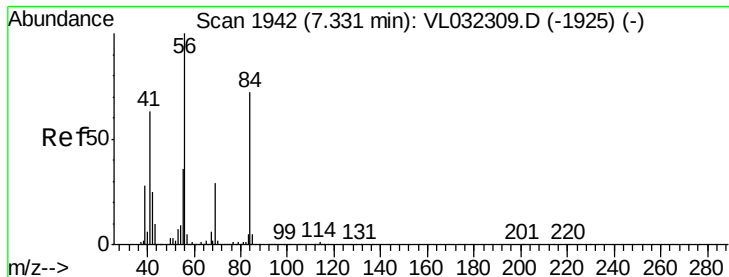
Tot Ion: 57 Resp: 62047
Ion Ratio Lower Upper
57 100
41 198.0 68.1 102.1#
43 0.0 177.4 266.2#
56 83.5 41.9 62.9#



#27
Carbon Disulfide
Concen: 0.403 ppbv
RT: 4.68 min Scan# 1117
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 76 Resp: 63484
Ion Ratio Lower Upper
76 100
44 27.0 14.0 21.0#
78 12.5 7.5 11.3#

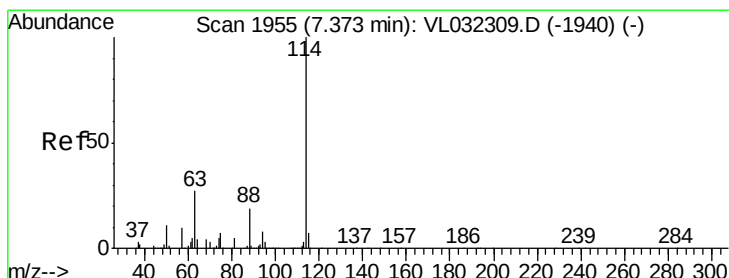
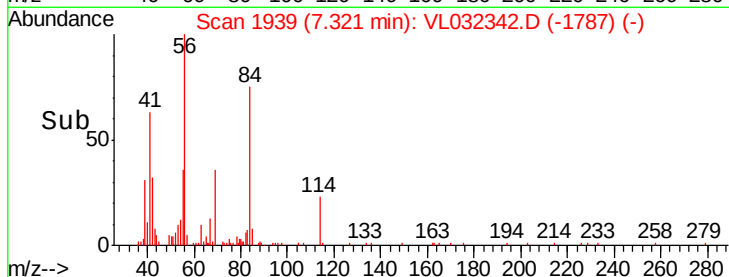
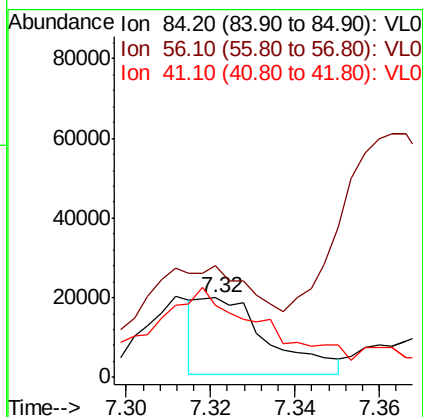
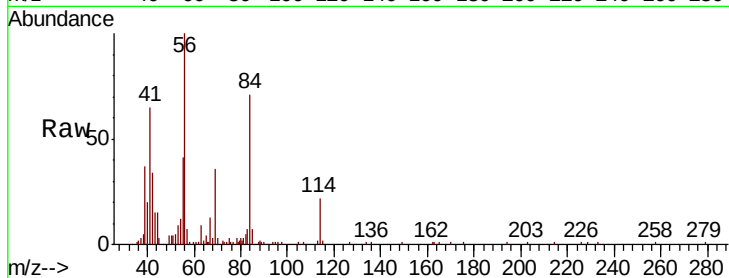




#30
Cyclohexane
Concen: 0.167 ppbv
RT: 7.32 min Scan# 1939
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

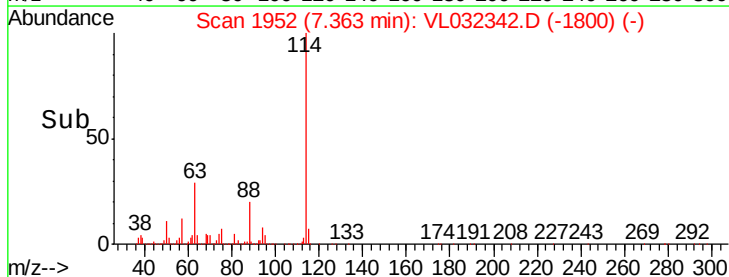
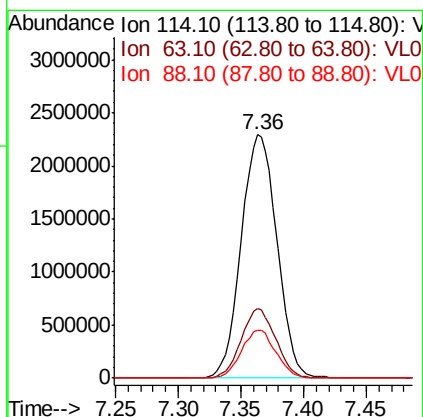
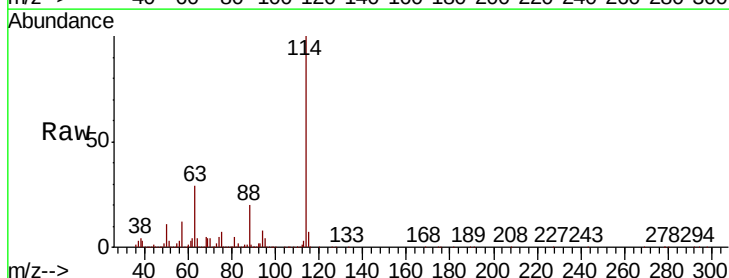
Instrument :
MSVOA_L
ClientSampleId :

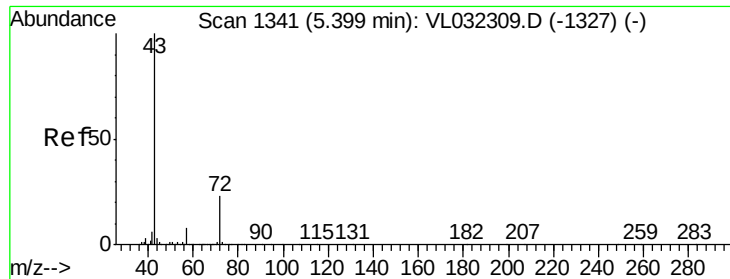
Tot Ion: 84 Resp: 22516
Ion Ratio Lower Upper
84 100
56 268.7 116.8 175.2#
41 141.2 70.0 105.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.36 min Scan# 1952
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 114 Resp: 4542327
Ion Ratio Lower Upper
114 100
63 27.8 22.4 33.6
88 19.1 15.3 22.9

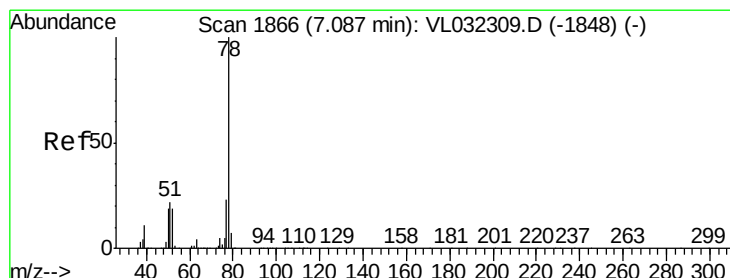
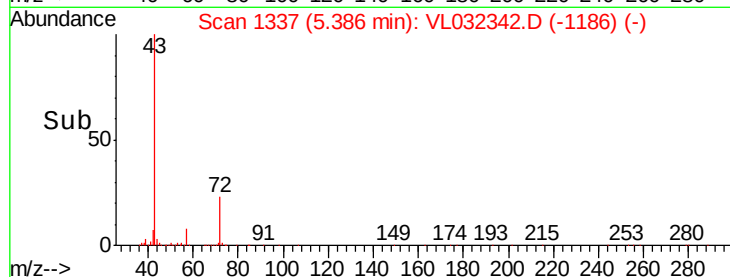
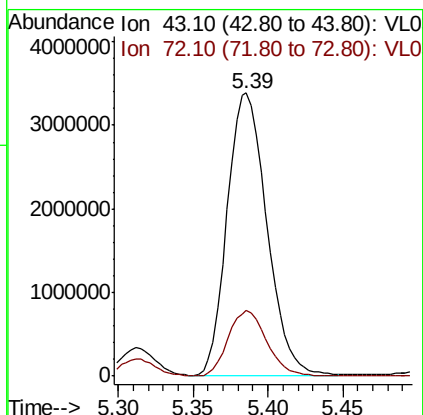
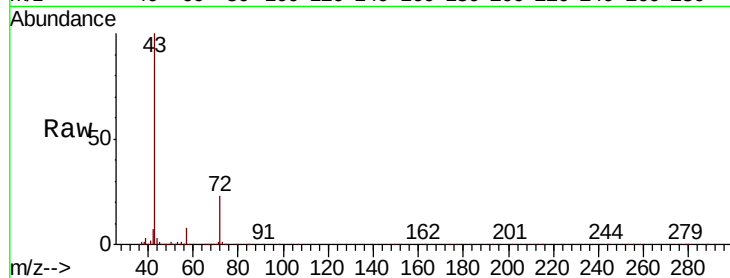




#34
2-Butanone
Concen: 21.138 ppbv
RT: 5.39 min Scan# 1337
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

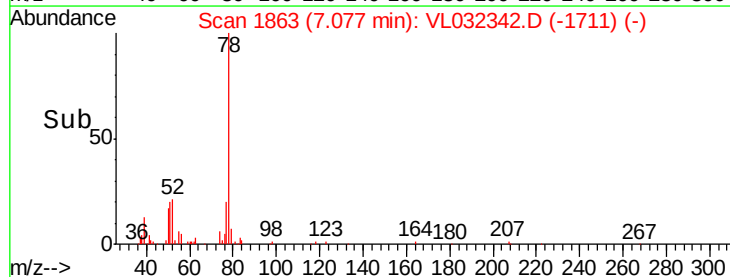
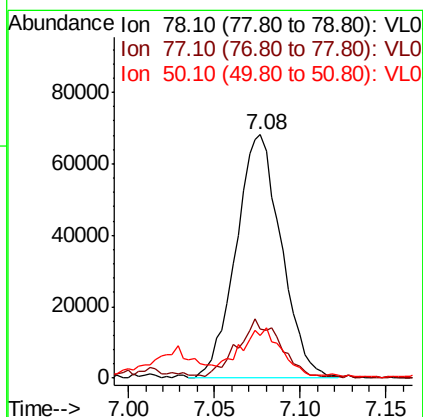
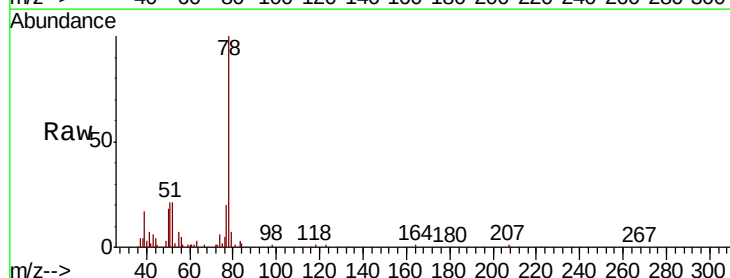
Instrument :
MSVOA_L
ClientSampleId :

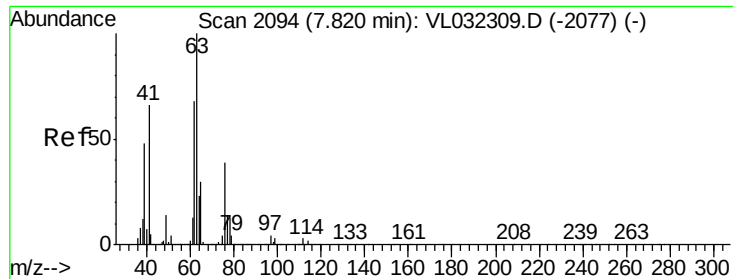
Tot Ion: 43 Resp: 6214653
Ion Ratio Lower Upper
43 100
72 22.9 17.4 26.2



#36
Benzene
Concen: 0.308 ppbv
RT: 7.08 min Scan# 1863
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 78 Resp: 123427
Ion Ratio Lower Upper
78 100
77 19.5 18.4 27.6
50 16.6 15.3 22.9





#39

1,2-Dichloropropane

Concen: 6.202 ppbv

RT: 7.36 min Scan# 1952

Delta R.T. -0.46 min

Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

Instrument :

MSVOA_L

ClientSampleId :

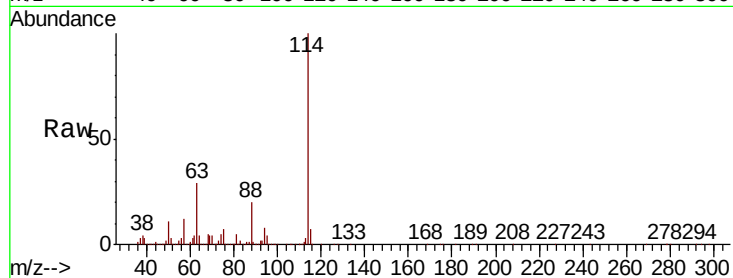
Tot Ion: 63 Resp: 1249280

Ion Ratio Lower Upper

63 100

41 0.0 52.5 78.7#

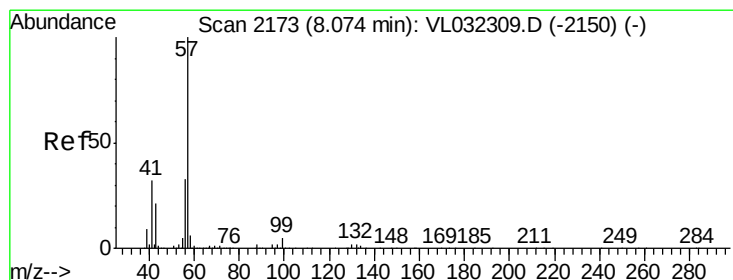
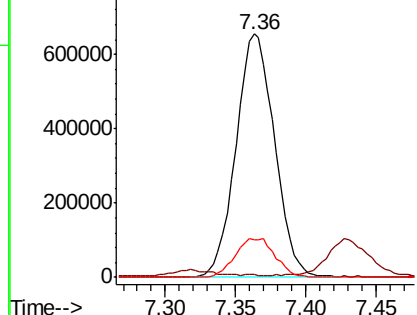
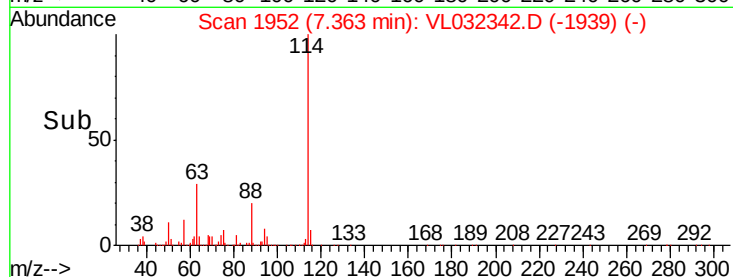
62 15.6 54.6 81.8#



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: 0.147 ppbv

RT: 8.07 min Scan# 2171

Delta R.T. -0.01 min

Lab File: VL032342.D

Acq: 2 Aug 2018 3:59

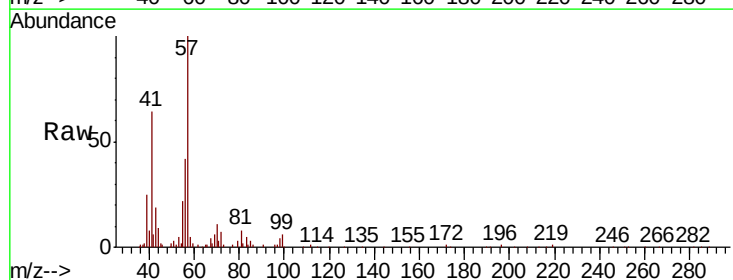
Tgt Ion: 57 Resp: 127286

Ion Ratio Lower Upper

57 100

41 72.3 24.3 36.5#

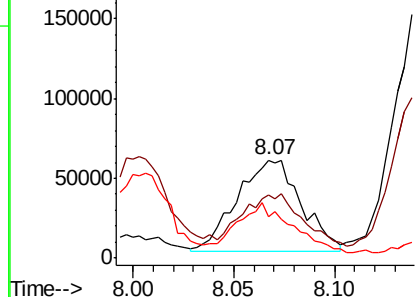
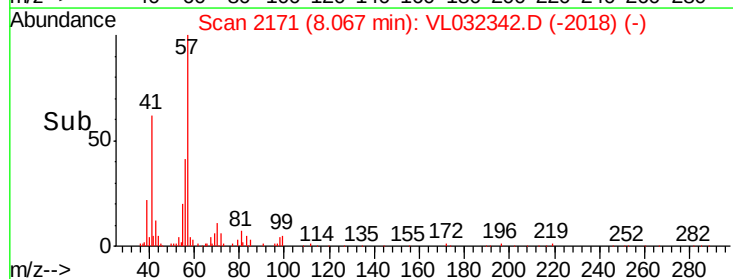
56 56.4 25.4 38.2#

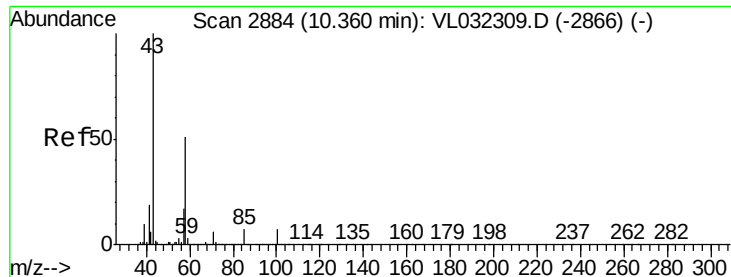


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

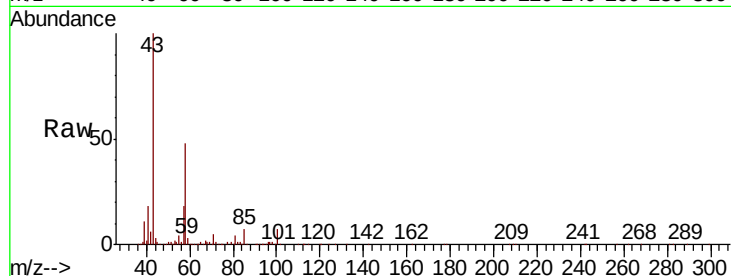




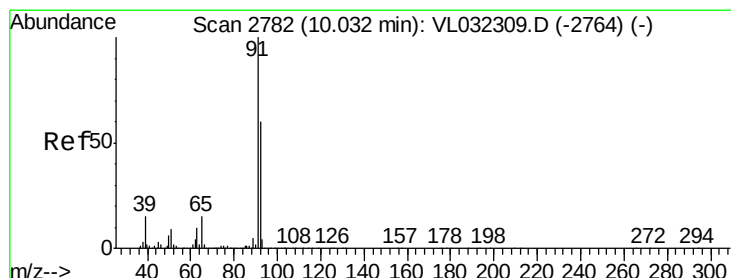
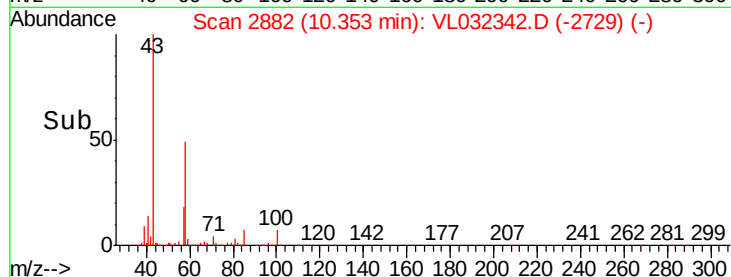
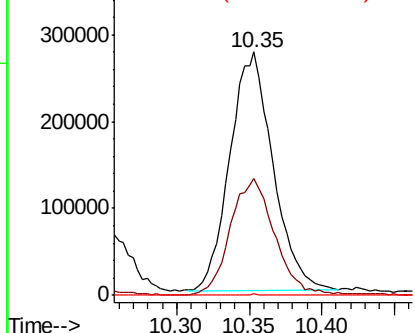
#51
2-Hexanone
Concen: 1.429 ppbv
RT: 10.35 min Scan# 2882
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 564938
Ion Ratio Lower Upper
43 100
58 51.1 39.1 58.7
98 0.3 0.3 0.5

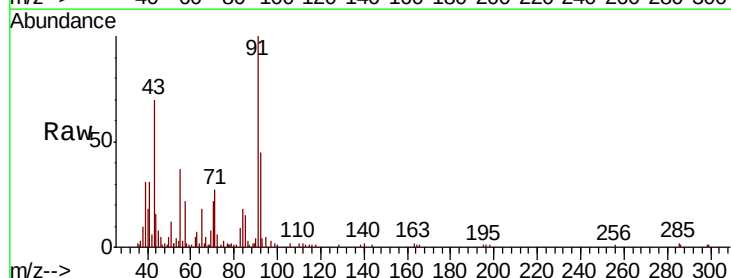


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

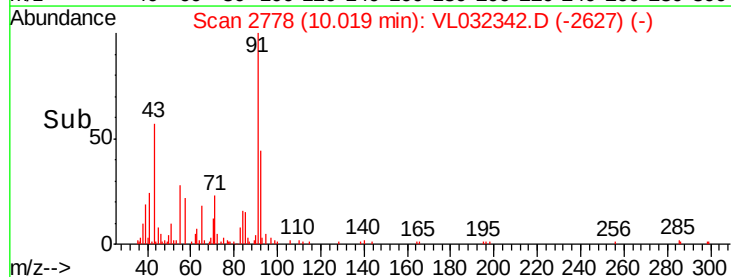
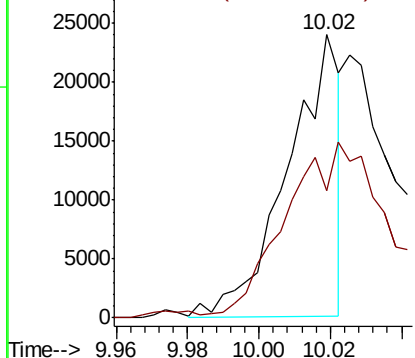


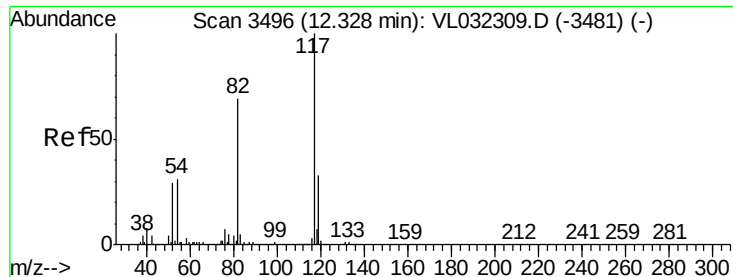
#53
Toluene
Concen: 0.051 ppbv
RT: 10.02 min Scan# 2778
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 91 Resp: 24187
Ion Ratio Lower Upper
91 100
92 0.0 48.6 72.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

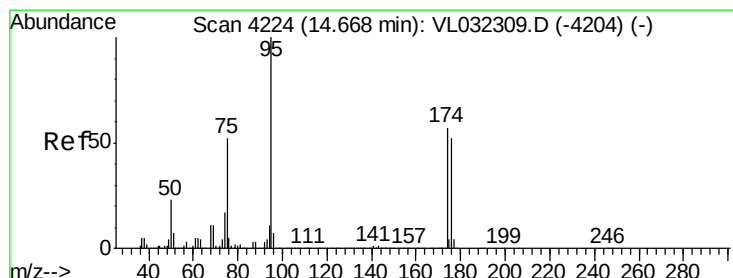
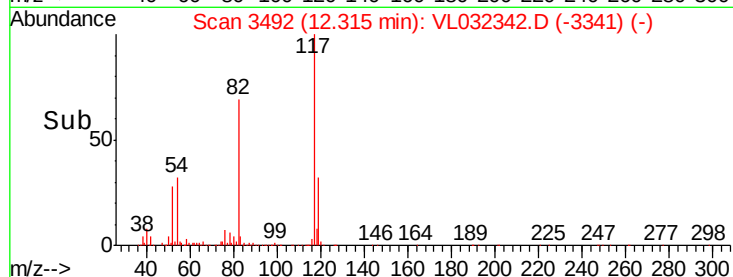
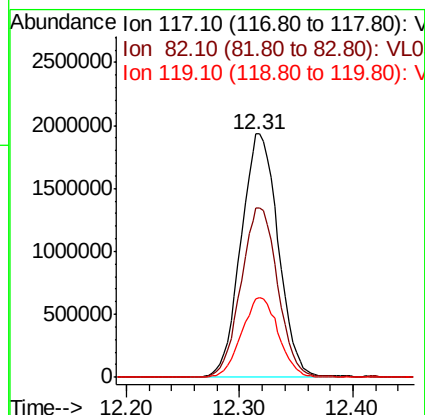
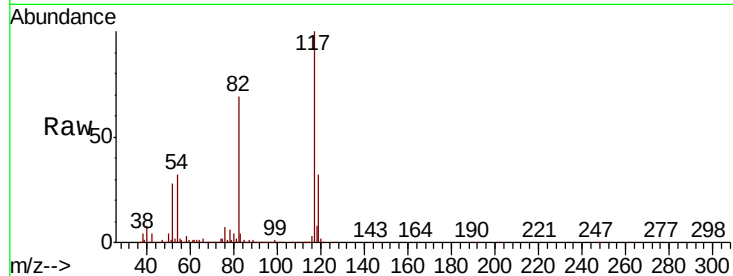




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.31 min Scan# 3492
Delta R.T. -0.01 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 4427525
Ion Ratio Lower Upper
117 100
82 69.4 52.6 78.8
119 32.6 25.7 38.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.330 ppbv
RT: 14.65 min Scan# 4219
Delta R.T. -0.02 min
Lab File: VL032342.D
Acq: 2 Aug 2018 3:59

Tgt Ion: 95 Resp: 3550216
Ion Ratio Lower Upper
95 100
174 55.8 45.5 68.3
175 4.2 3.3 4.9

