

Data File : VL032728.D
Acq On : 7 Nov 2018 22:18
Operator : SY/AP
Sample : J5823-08DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

Quant Time: Nov 08 10:56:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1415493	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3496075	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3458771	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2596484	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	11694	0.081	ppbv	90
3) Chlorodifluoromethane	3.03	51	8954	0.081	ppbv	97
4) Chloromethane	3.18	50	3179	0.051	ppbv	94
9) Propene	3.05	41	22845	0.501	ppbv	87
13) Ethanol	3.65	45	554	0.043	ppbv #	36
15) Acetone	3.92	43	53308	0.408	ppbv #	77
16) 1,3-Butadiene	3.37	39	1885	0.039	ppbv #	1
17) tert-Butyl alcohol	4.40	59	1623	0.042	ppbv #	100
20) Methylene Chloride	4.41	84	24625	0.371	ppbv #	79
25) Ethyl Acetate	5.79	43	25114	0.083	ppbv #	82
26) Hexane	5.79	57	29146	0.205	ppbv #	41
36) Benzene	7.02	78	47096	0.166	ppbv #	88
39) 1,2-Dichloropropane	7.30	63	883732	8.061	ppbv #	26
44) 2,2,4-Trimethylpentane	8.00	57	48241	0.100	ppbv #	76
53) Toluene	9.96	91	379370	1.166	ppbv	96
59) m/p-Xylene	13.16	91	23857	0.067	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.94	105	14721	0.038	ppbv #	74

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

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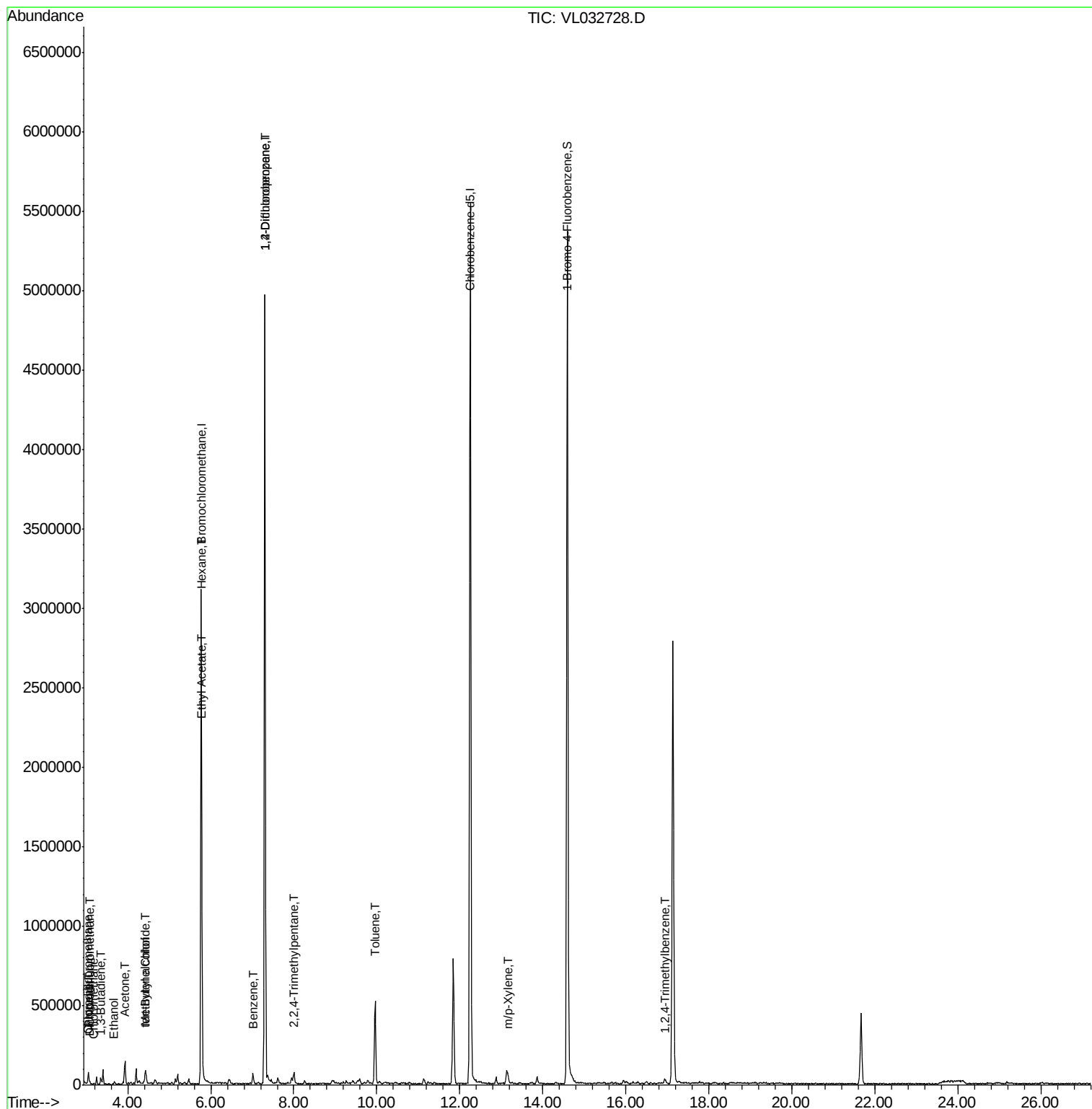
Quant Time: Nov 08 10:56:22 2018

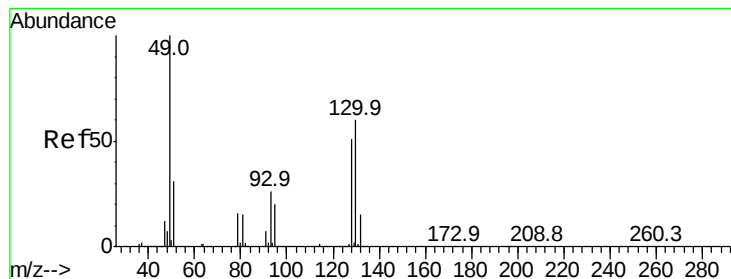
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL032728.D

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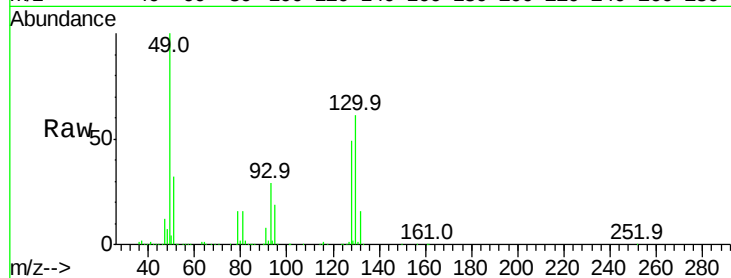
Tgt Ion: 49 Resp: 1415493

Ion Ratio Lower Upper

49 100

128 49.6 22.3 66.8

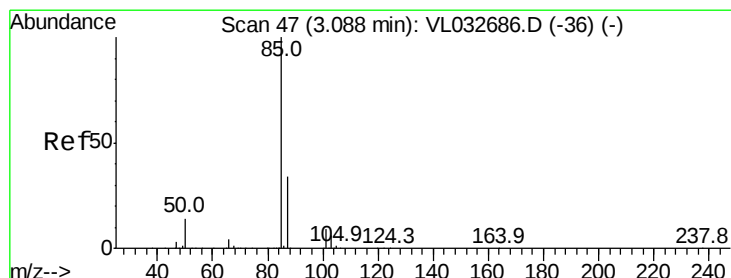
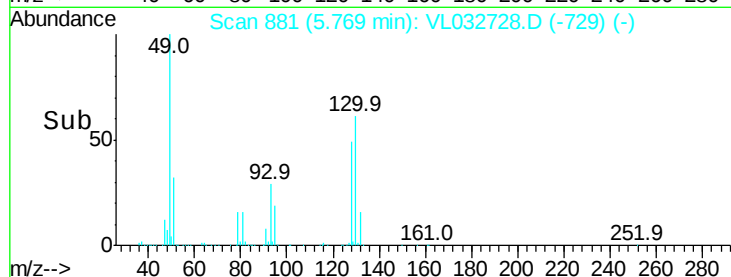
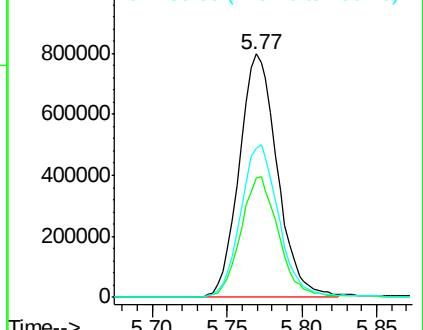
130 63.7 28.4 85.3



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



#2

Dichlorodifluoromethane

Concen: 0.081 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032728.D

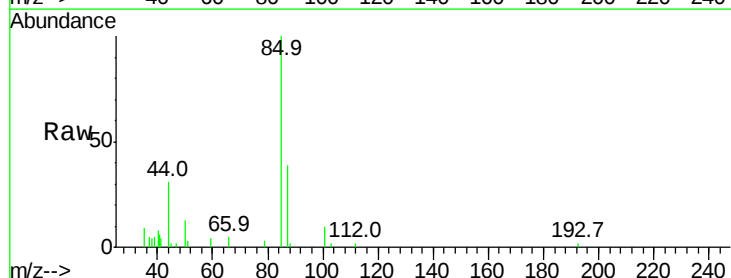
Acq: 7 Nov 2018 22:18

Tgt Ion: 85 Resp: 11694

Ion Ratio Lower Upper

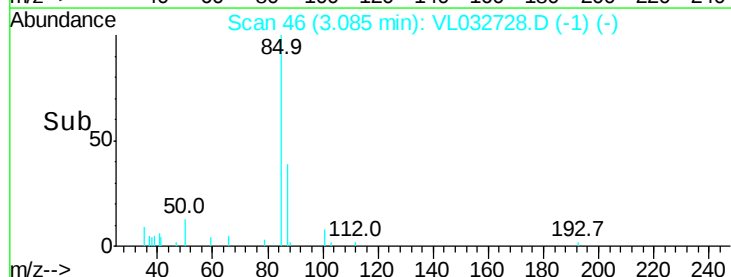
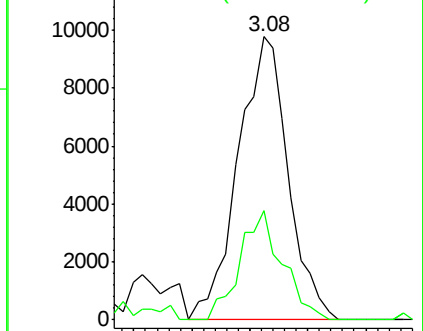
85 100

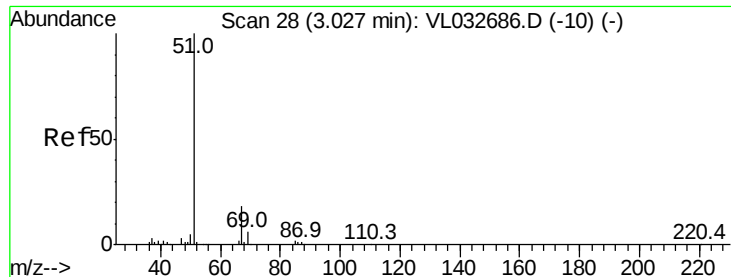
87 38.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

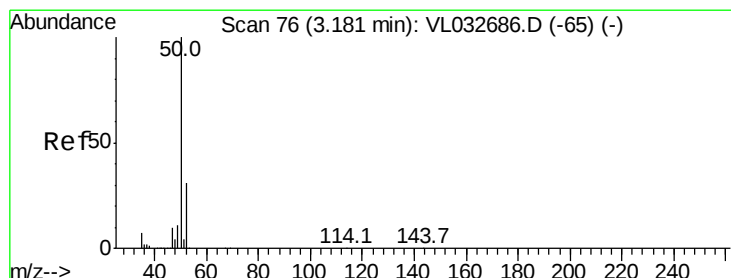
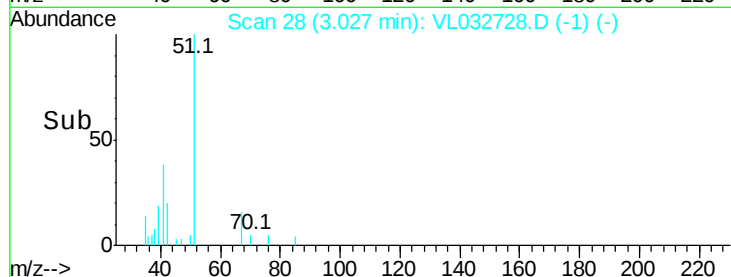
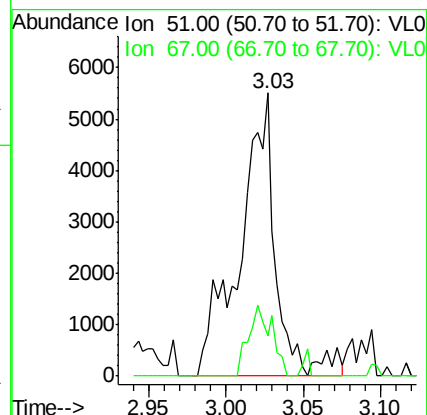
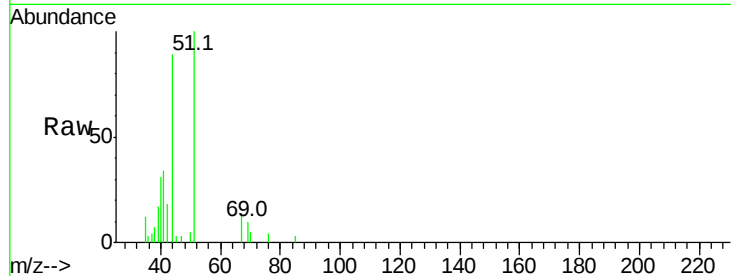




#3
Chlorodifluoromethane
Concen: 0.081 ppbv
RT: 3.03 min Scan# 28
Delta R.T. 0.00 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

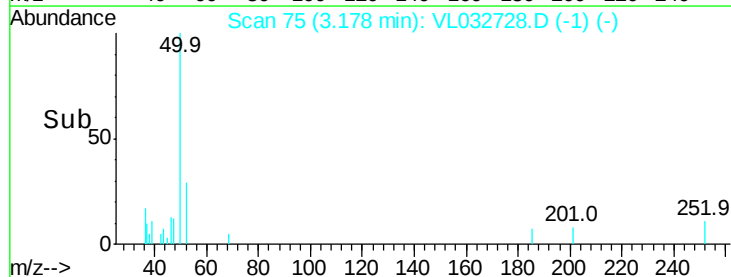
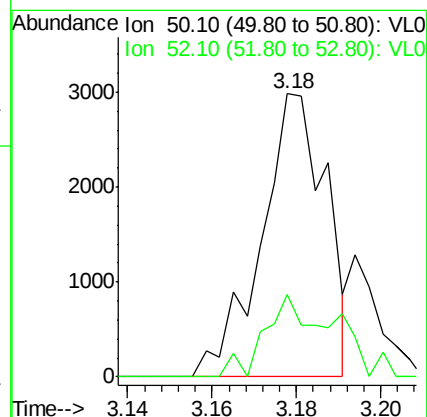
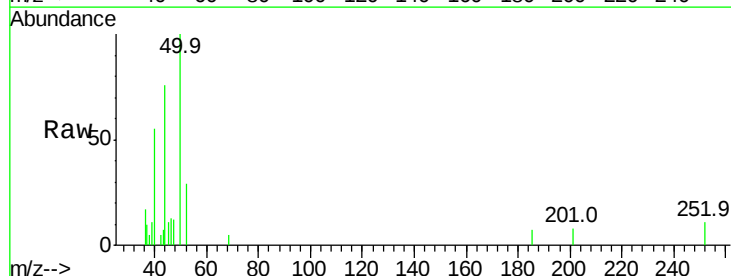
Instrument :
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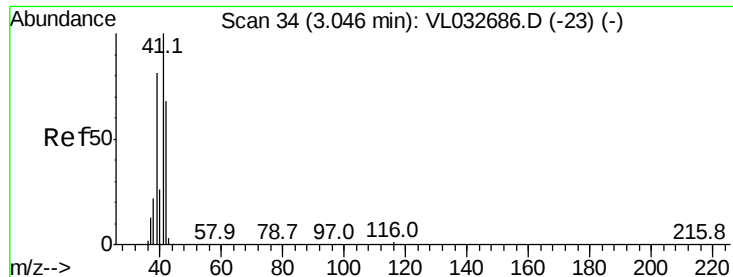
Tgt Ion: 51 Resp: 8954
Ion Ratio Lower Upper
51 100
67 17.7 15.2 22.8



#4
Chloromethane
Concen: 0.051 ppbv
RT: 3.18 min Scan# 75
Delta R.T. -0.00 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

Tgt Ion: 50 Resp: 3179
Ion Ratio Lower Upper
50 100
52 29.1 25.9 38.9





#9

Propene

Concen: 0.501 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032728.D

Acq: 7 Nov 2018 22:18

Instrument :

MSVOA_L

ClientSampleId :

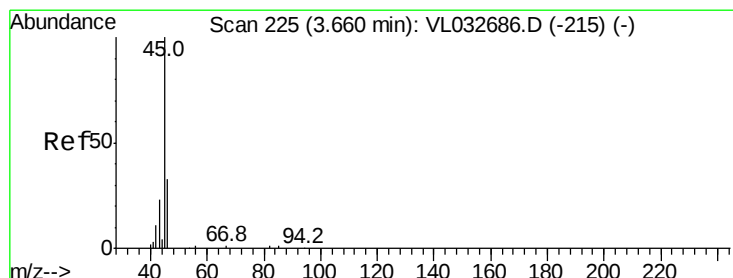
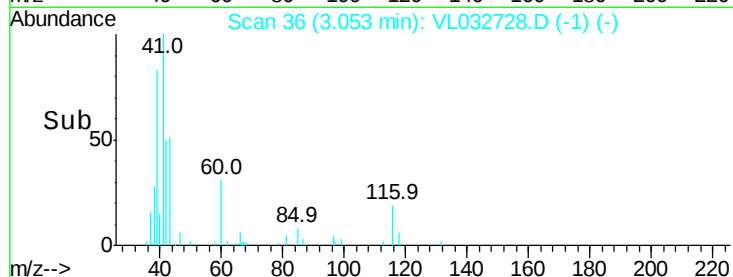
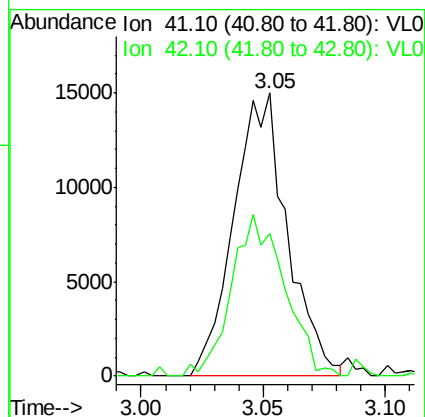
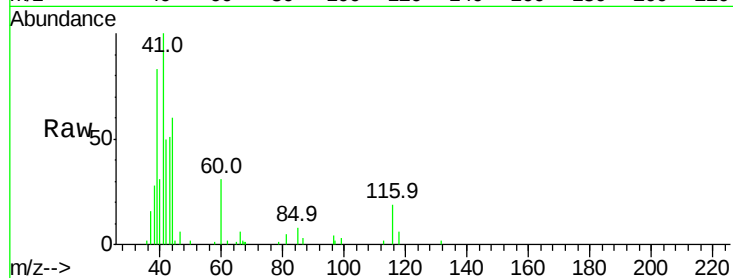
SV-02DL

Tgt Ion: 41 Resp: 22845

Ion Ratio Lower Upper

41 100

42 58.6 55.4 83.0



#13

Ethanol

Concen: 0.043 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.01 min

Lab File: VL032728.D

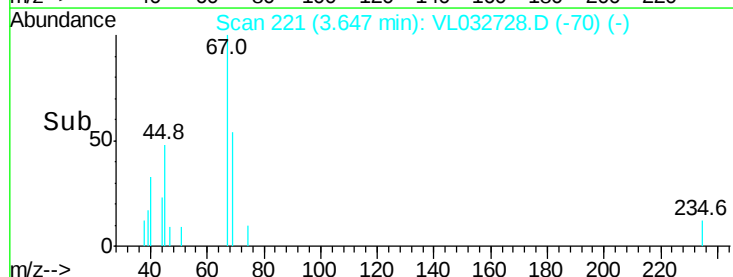
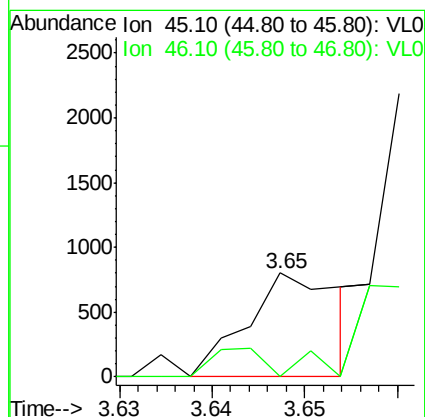
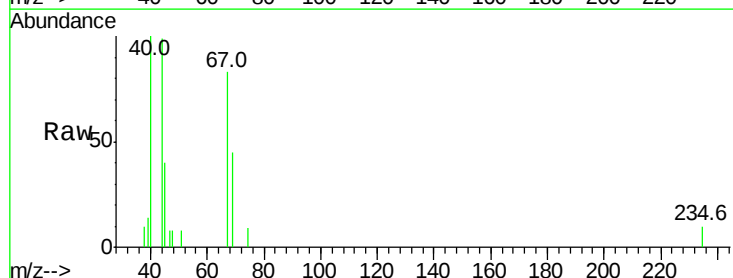
Acq: 7 Nov 2018 22:18

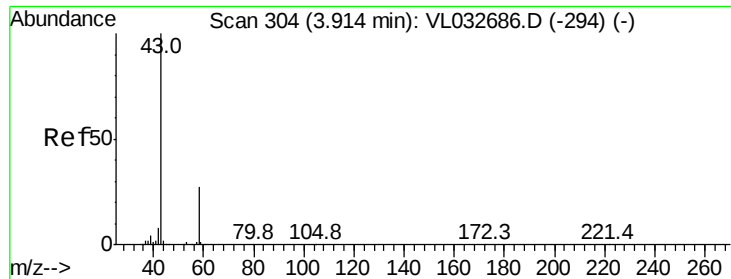
Tgt Ion: 45 Resp: 554

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.8#

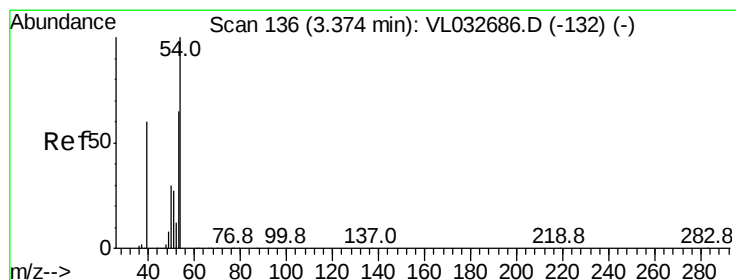
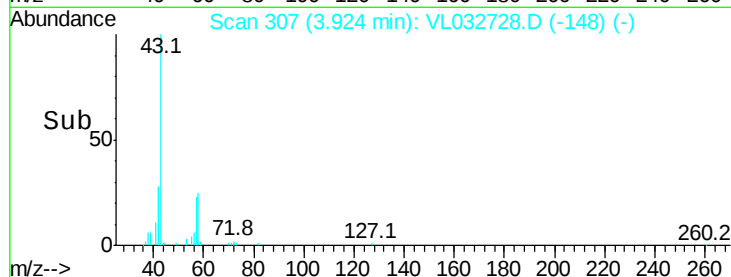
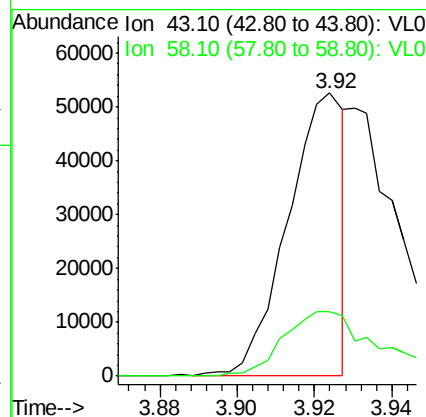
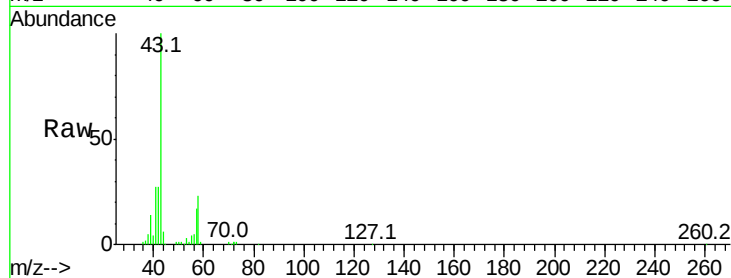




#15
Acetone
Concen: 0.408 ppbv
RT: 3.92 min Scan# 307
Delta R.T. 0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

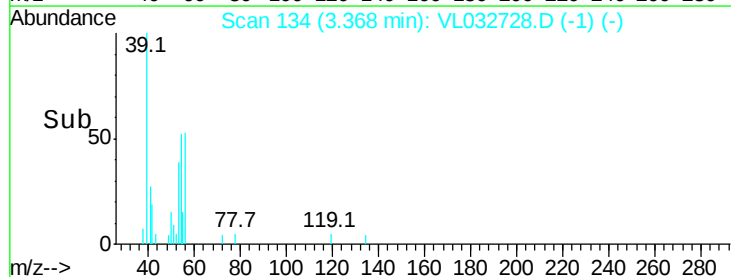
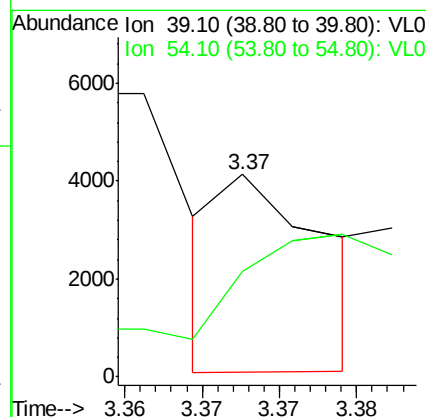
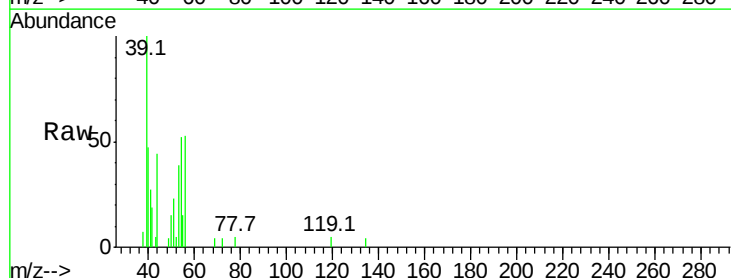
Instrument :
MSVOA_L
ClientSampleID :
SV-02DL

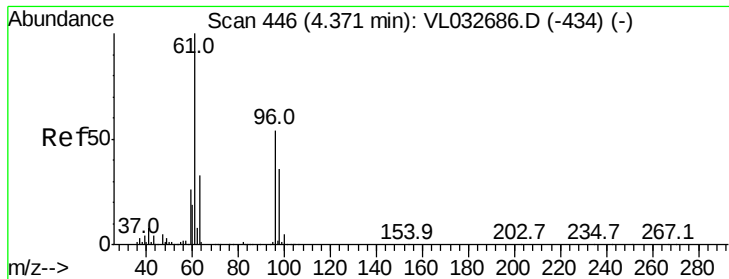
Tgt Ion: 43 Resp: 53308
Ion Ratio Lower Upper
43 100
58 39.6 22.1 33.1#



#16
1,3-Butadiene
Concen: 0.039 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

Tgt Ion: 39 Resp: 1885
Ion Ratio Lower Upper
39 100
54 0.0 90.4 135.6#

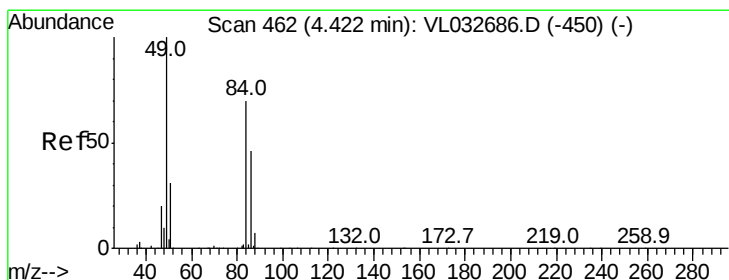
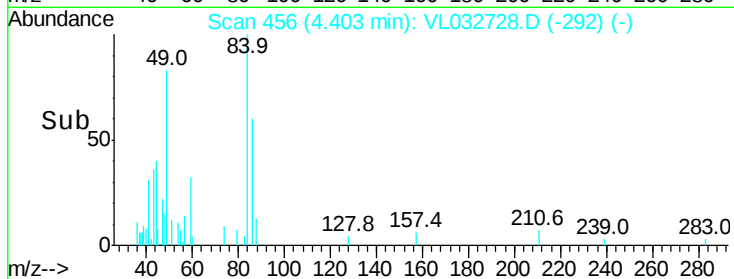
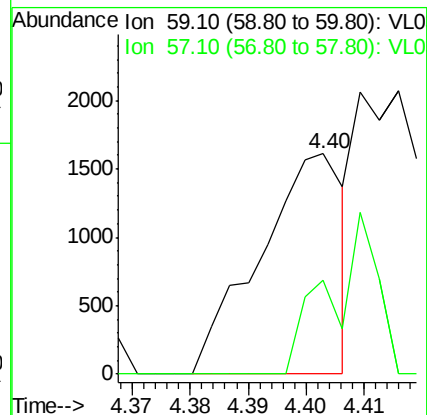
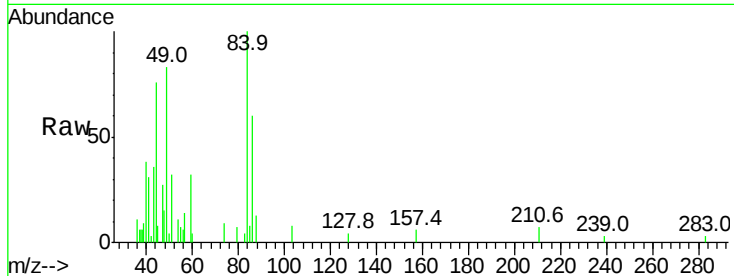




#17
tert-Butyl alcohol
Concen: 0.042 ppbv
RT: 4.40 min Scan# 456
Delta R.T. 0.03 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

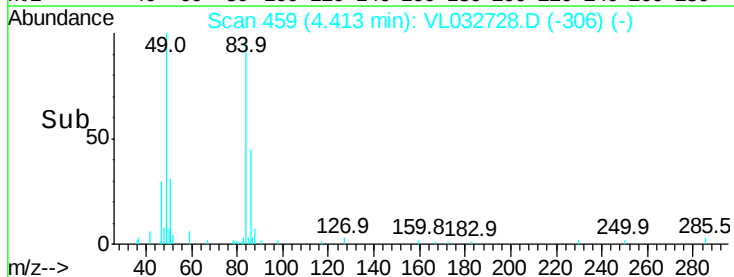
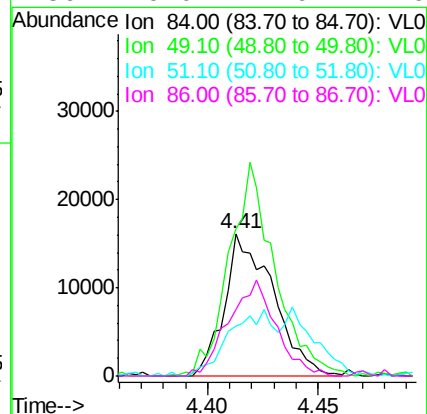
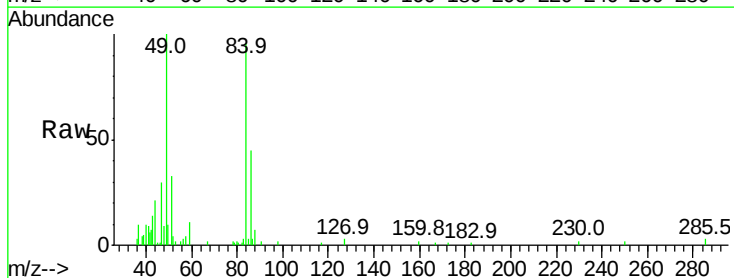
Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

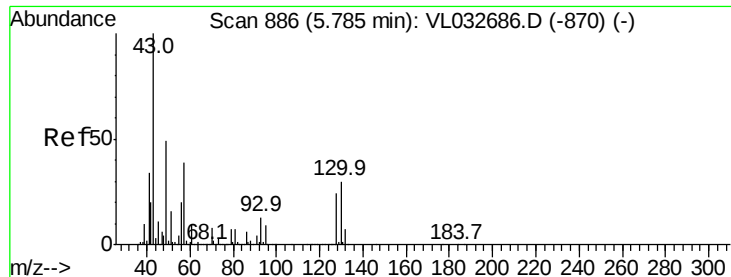
Tgt Ion: 59 Resp: 1623
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0



#20
Methylene Chloride
Concen: 0.371 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

Tgt Ion: 84 Resp: 24625
Ion Ratio Lower Upper
84 100
49 112.3 113.5 170.3#
51 32.7 34.8 52.2#
86 46.0 47.9 71.9#

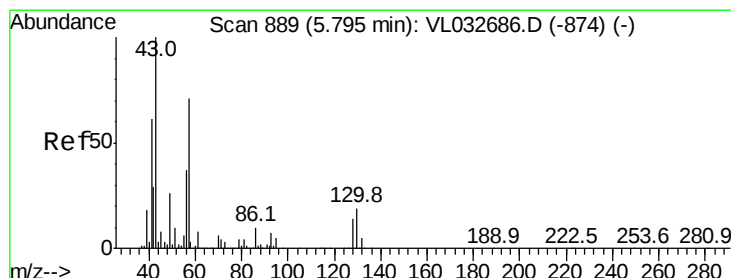
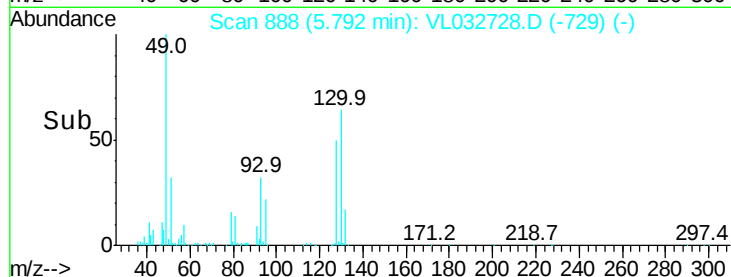
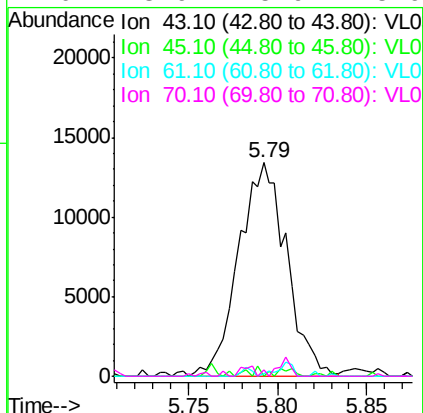
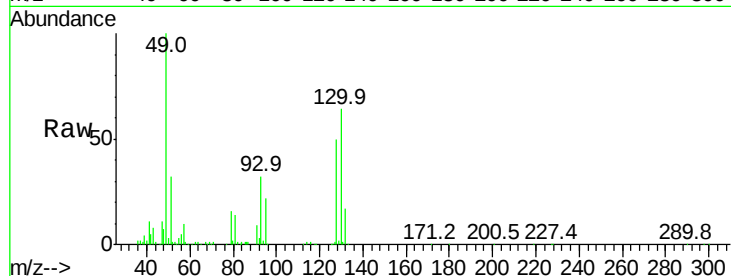




#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

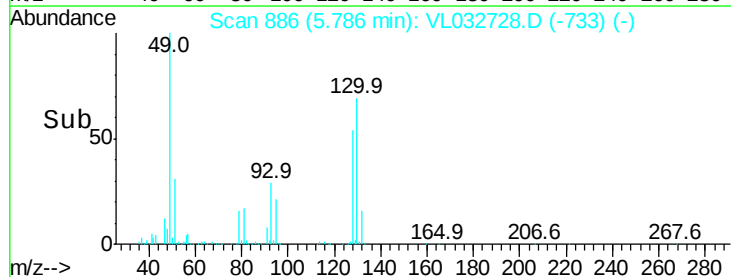
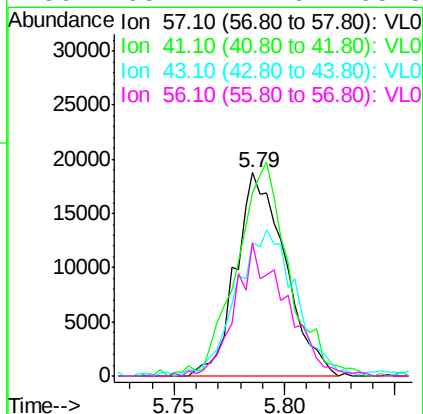
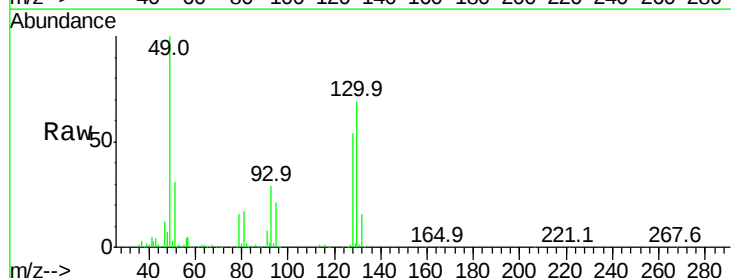
Instrument :
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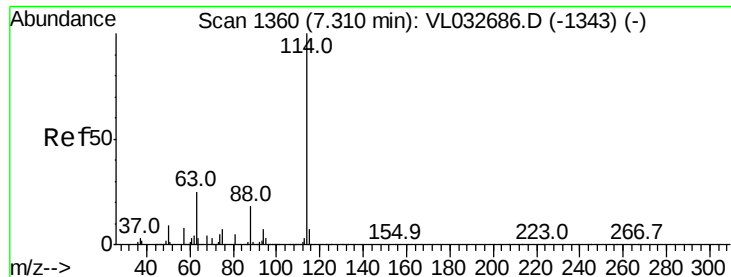
Tgt Ion:	43	Resp:	25114
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.0	12.0#
61	3.0	8.0	12.0#
70	3.9	5.9	8.9#



#26
Hexane
Concen: 0.205 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

Tgt Ion:	57	Resp:	29146
Ion	Ratio	Lower	Upper
57	100		
41	112.2	67.4	101.0#
43	88.8	171.9	257.9#
56	68.1	42.6	63.8#

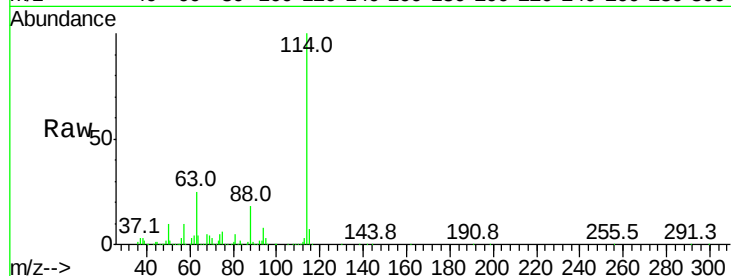




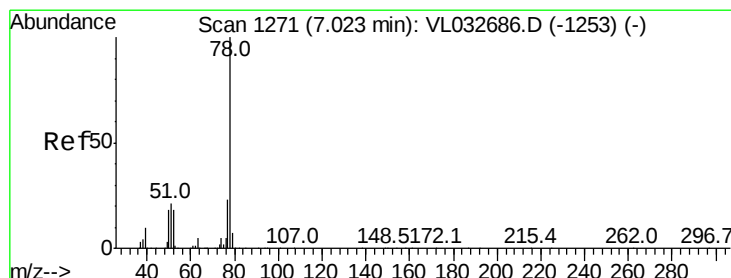
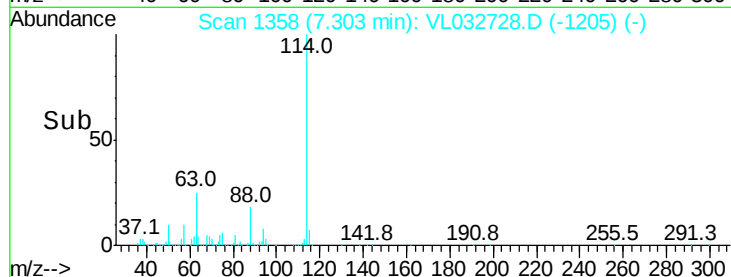
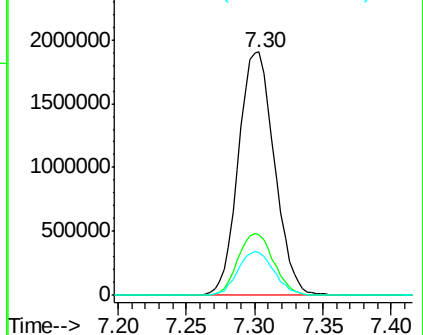
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032728.D
 Acq: 7 Nov 2018 22:18

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02DL

Tgt Ion:114 Resp: 3496075
 Ion Ratio Lower Upper
 114 100
 63 25.5 21.7 32.5
 88 18.0 14.9 22.3

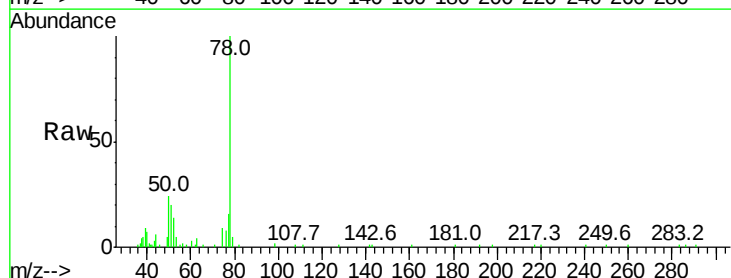


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

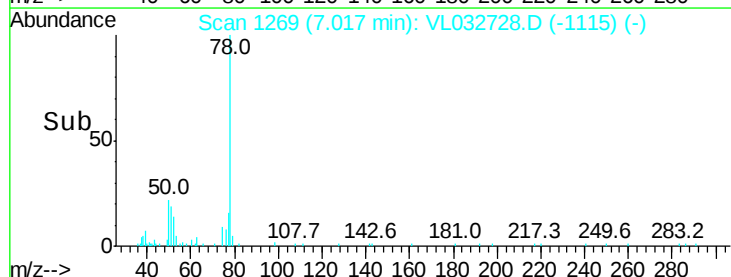
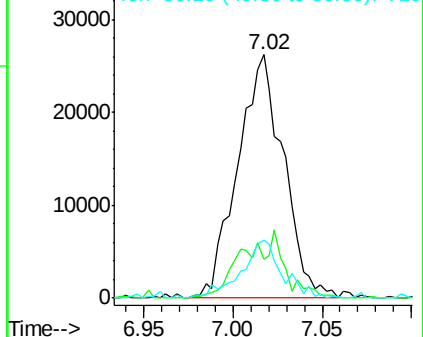


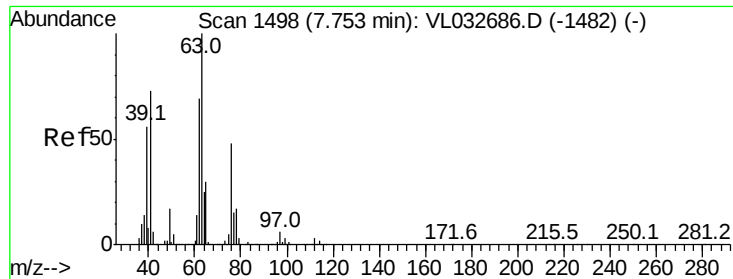
#36
 Benzene
 Concen: 0.166 ppbv
 RT: 7.02 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VL032728.D
 Acq: 7 Nov 2018 22:18

Tgt Ion: 78 Resp: 47096
 Ion Ratio Lower Upper
 78 100
 77 16.1 18.1 27.1#
 50 23.7 15.1 22.7#



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 8.061 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.45 min

Lab File: VL032728.D

Acq: 7 Nov 2018 22:18

Instrument :

MSVOA_L

ClientSampleId :

SV-02DL

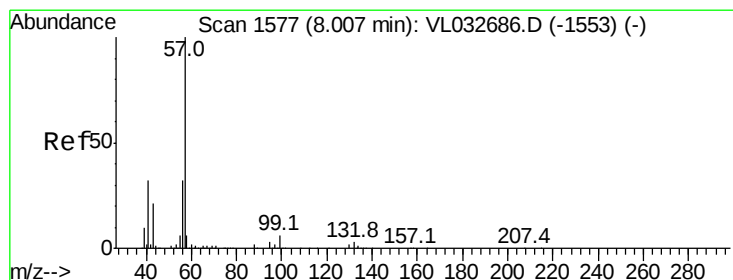
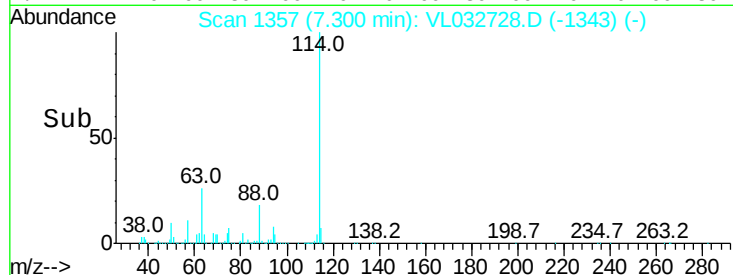
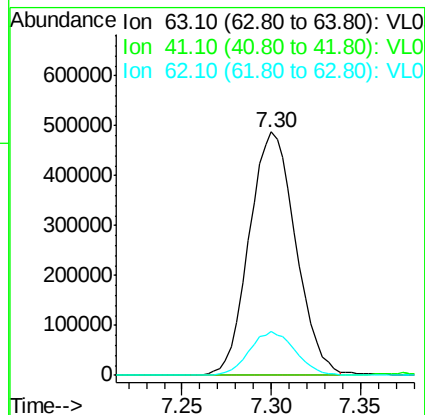
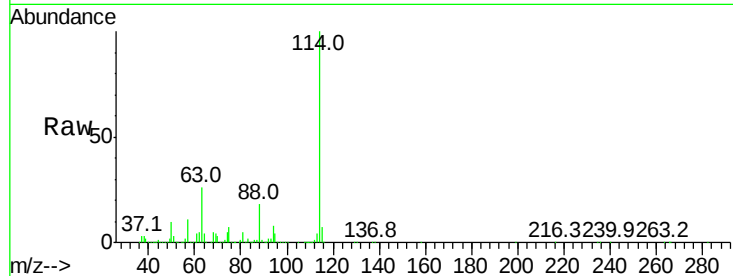
Tgt Ion: 63 Resp: 883732

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.9 54.4 81.6#



#44

2,2,4-Trimethylpentane

Concen: 0.100 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032728.D

Acq: 7 Nov 2018 22:18

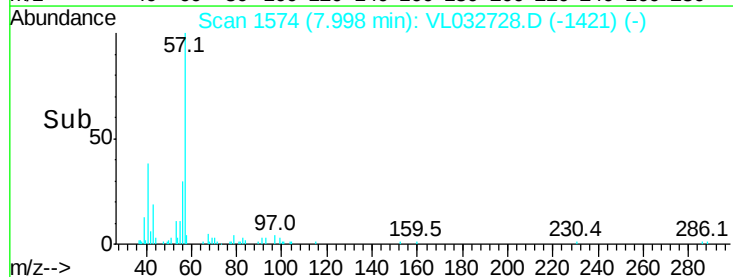
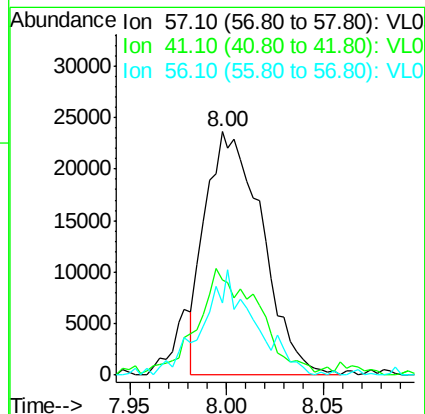
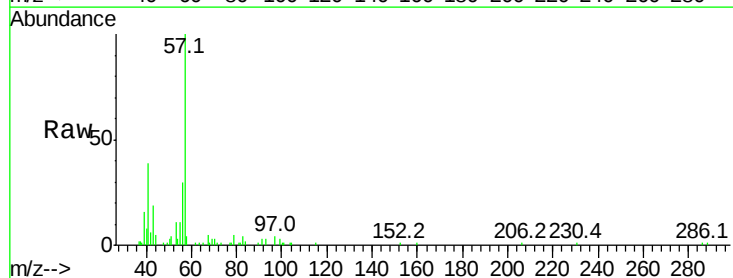
Tgt Ion: 57 Resp: 48241

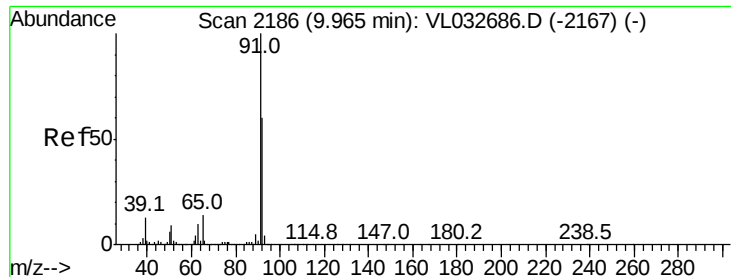
Ion Ratio Lower Upper

57 100

41 48.5 24.7 37.1#

56 40.1 25.0 37.4#





#53

Toluene

Concen: 1.166 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032728.D

Acq: 7 Nov 2018 22:18

Instrument :

MSVOA_L

ClientSampleId :

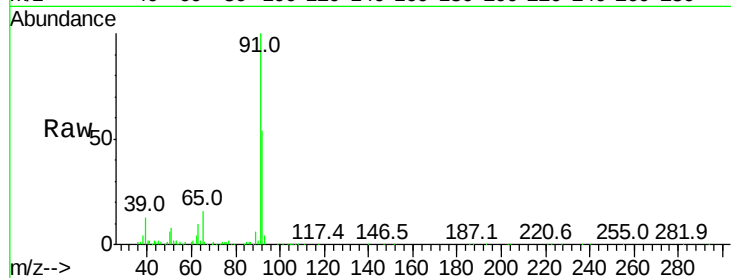
SV-02DL

Tgt Ion: 91 Resp: 379370

Ion Ratio Lower Upper

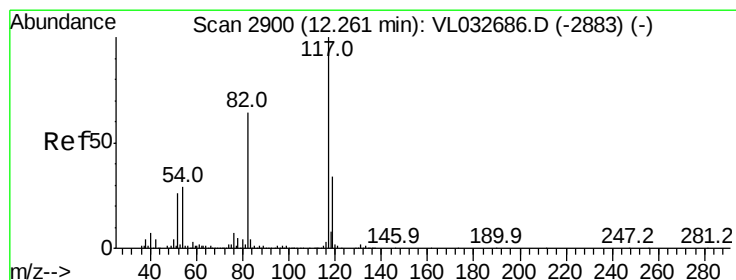
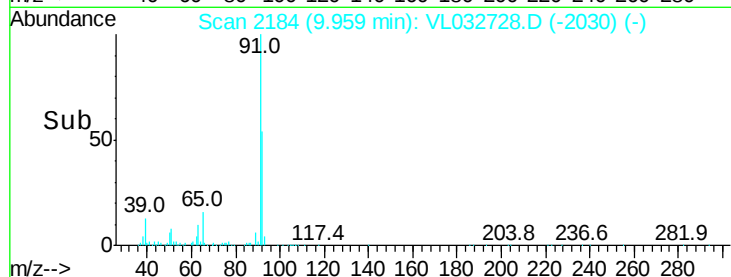
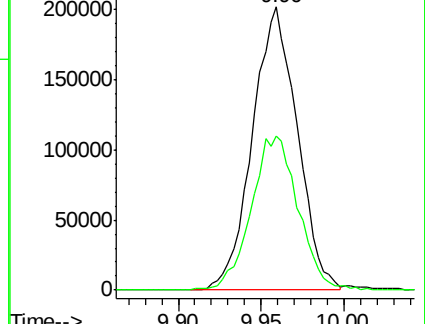
91 100

92 57.3 48.4 72.6



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: 12.25 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032728.D

Acq: 7 Nov 2018 22:18

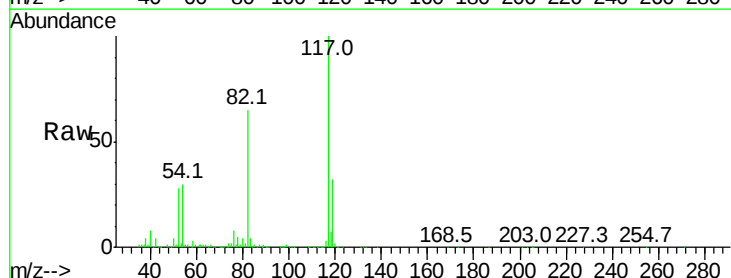
Tgt Ion: 117 Resp: 3458771

Ion Ratio Lower Upper

117 100

82 65.5 52.7 79.1

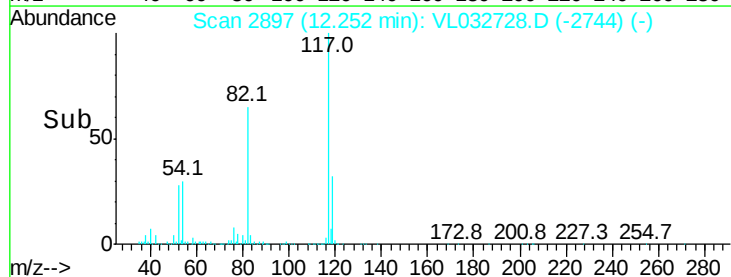
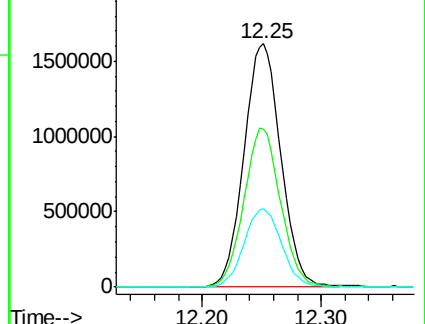
119 32.8 26.7 40.1

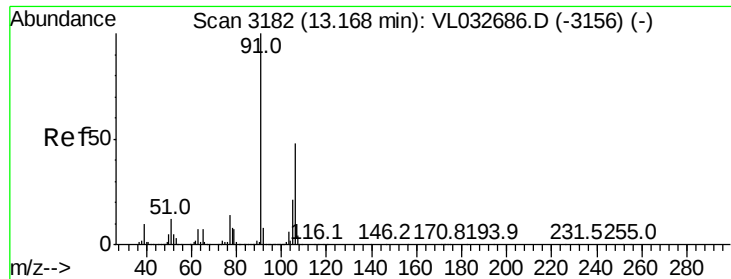


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

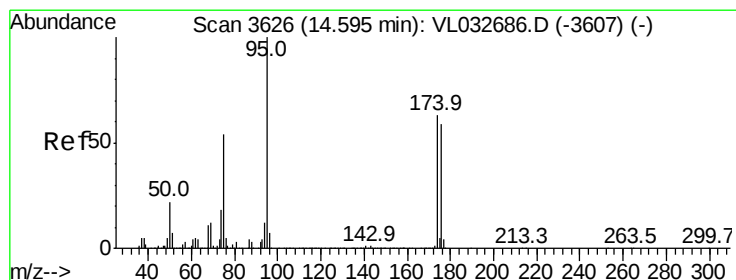
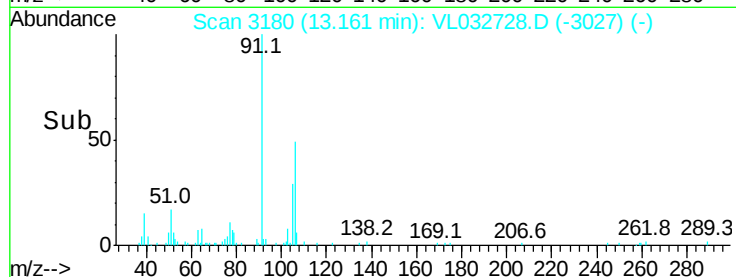
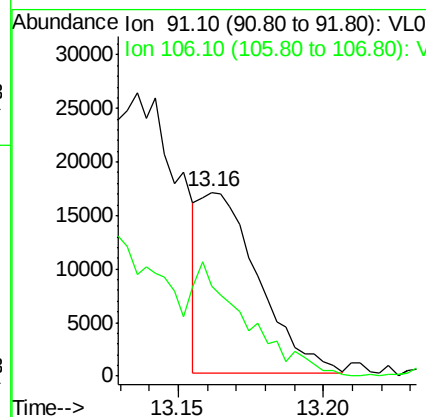
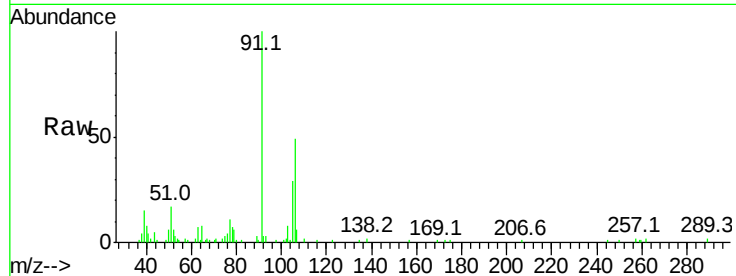




#59
m/p-Xylene
Concen: 0.067 ppbv
RT: 13.16 min Scan# 3180
Delta R.T. -0.01 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

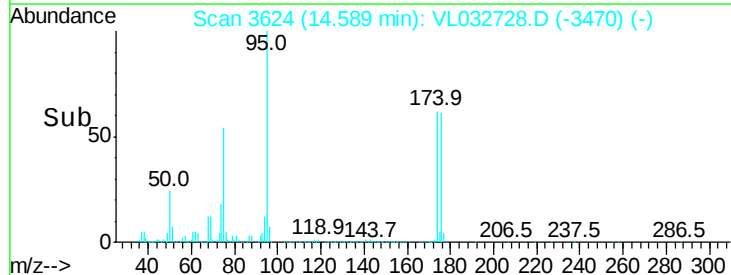
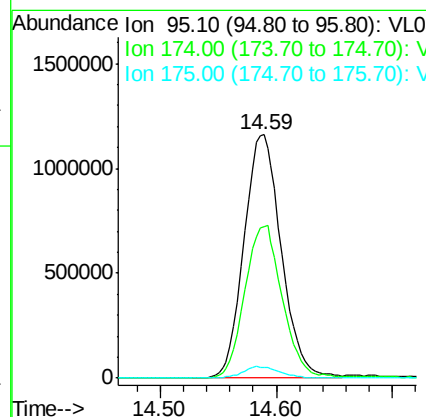
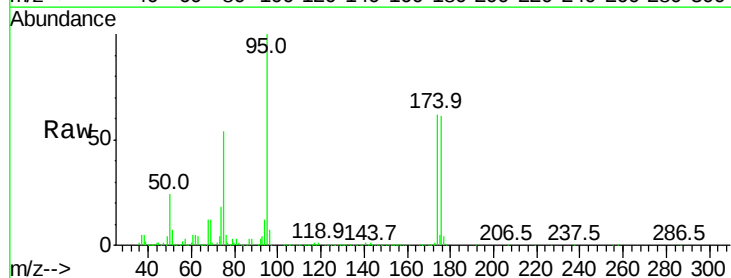
Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

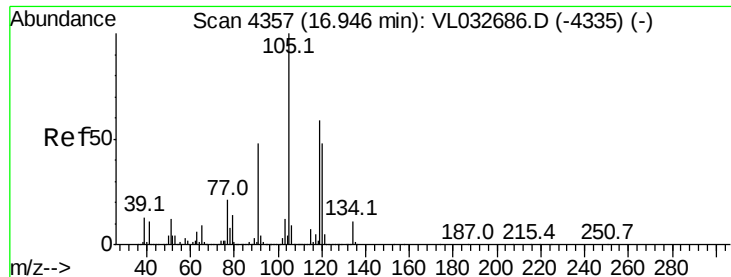
Tgt Ion: 91 Resp: 23857
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.082 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032728.D
Acq: 7 Nov 2018 22:18

Tgt Ion: 95 Resp: 2596484
Ion Ratio Lower Upper
95 100
174 64.0 46.0 69.0
175 4.6 3.4 5.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL032728.D
 Acq: 7 Nov 2018 22:18

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02DL

Tgt Ion:	105	Resp:	14721
Ion Ratio	Lower	Upper	
105	100		
120	36.7	35.8	53.8
91	15.7	33.2	49.8#
77	7.6	16.2	24.4#

