

Data File : VL032396.D
Acq On : 17 Aug 2018 3:41
Operator : SY/AP
Sample : J4472-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Quant Time: Aug 17 04:18:20 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	1757693	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3381851	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3346795	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2595128	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

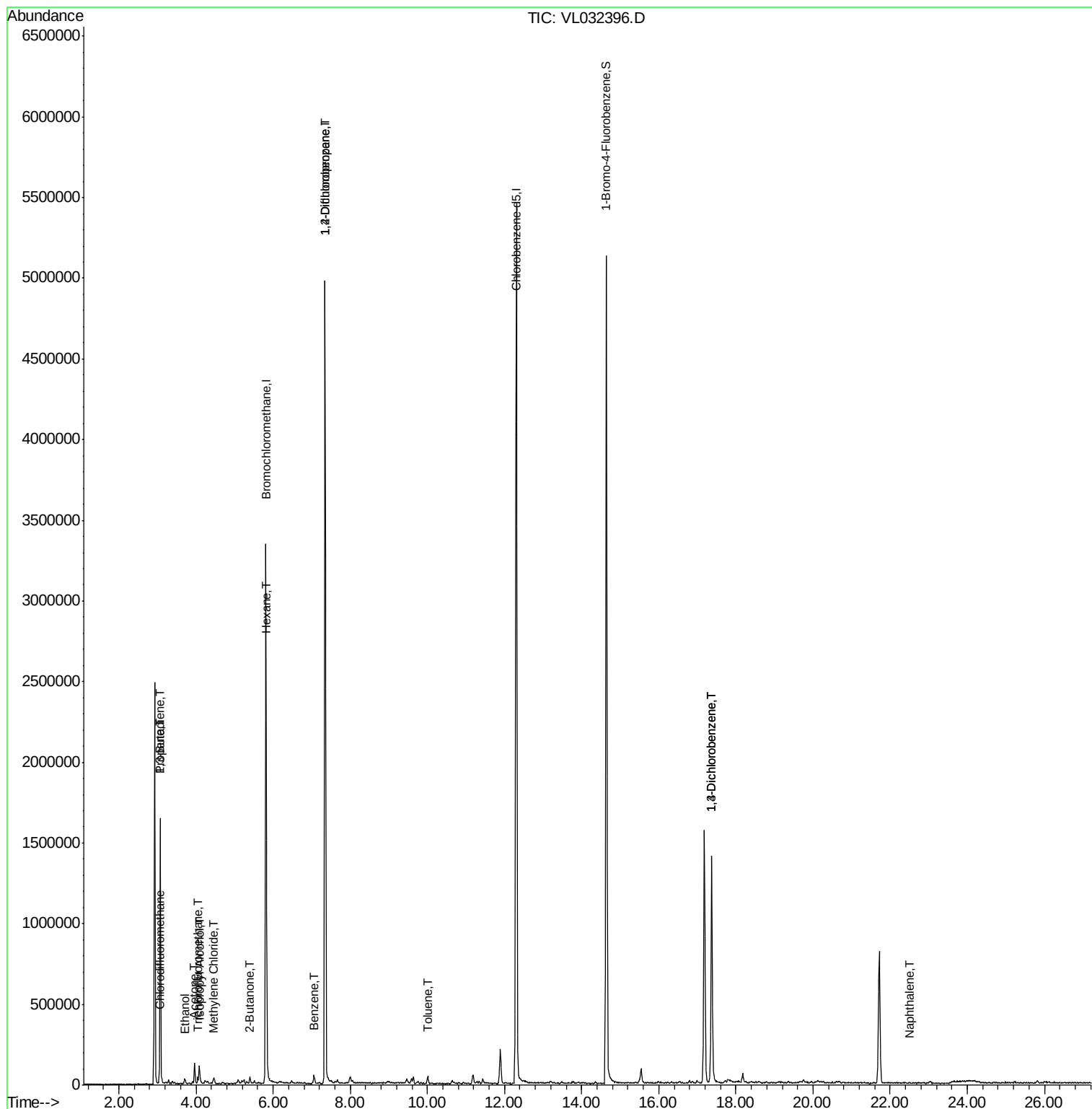
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	663	Below Cal		99
3) Chlorodifluoromethane	3.04	51	26359	0.162	ppbv	96
9) Propene	3.07	41	634534	9.106	ppbv	100
11) Trichlorofluoromethane	4.04	101	25262	0.129	ppbv	95
13) Ethanol	3.70	45	21519	1.202	ppbv	78
15) Acetone	3.96	43	112269	0.672	ppbv	99
16) 1,3-Butadiene	3.07	39	511955	7.425	ppbv #	1
19) Isopropyl Alcohol	4.09	45	118181	1.051	ppbv #	92
20) Methylene Chloride	4.46	84	4849	0.077	ppbv #	66
26) Hexane	5.83	57	5134	0.032	ppbv #	10
34) 2-Butanone	5.40	43	38470	0.167	ppbv	99
36) Benzene	7.06	78	23863	0.083	ppbv #	94
39) 1,2-Dichloropropane	7.35	63	963421	8.044	ppbv #	24
53) Toluene	10.01	91	17776	0.057	ppbv #	54
75) 1,3-Dichlorobenzene	17.37	146	691890	3.000	ppbv	98
76) 1,4-Dichlorobenzene	17.37	146	691890	3.167	ppbv	99
79) Naphthalene	22.48	128	970	0.330	ppbv #	67

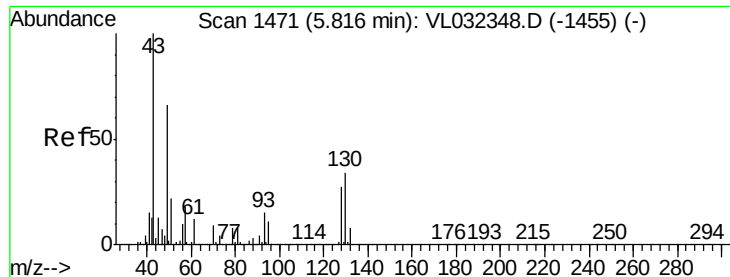
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

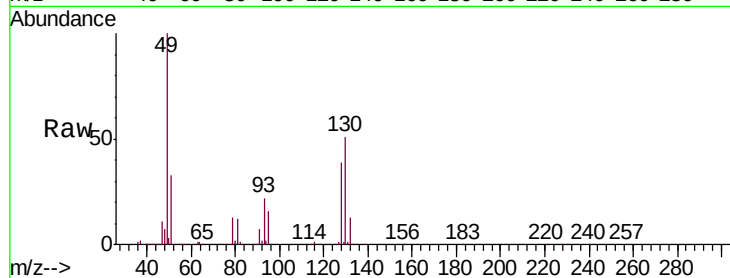
Tgt Ion: 49 Resp: 1757693

Ion Ratio Lower Upper

49 100

128 40.6 20.5 61.6

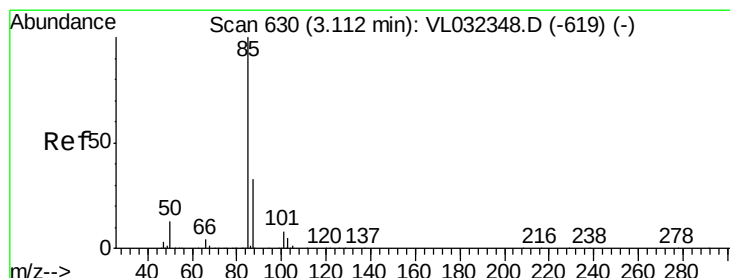
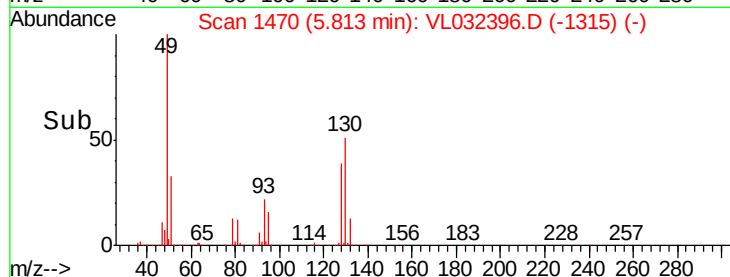
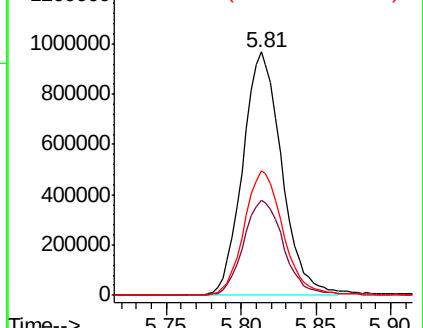
130 52.1 26.2 78.5



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: Below Cal

RT: 3.05 min Scan# 612

Delta R.T. -0.06 min

Lab File: VL032396.D

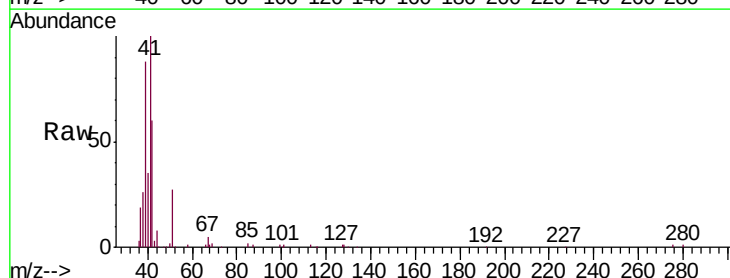
Acq: 17 Aug 2018 3:41

Tgt Ion: 85 Resp: 663

Ion Ratio Lower Upper

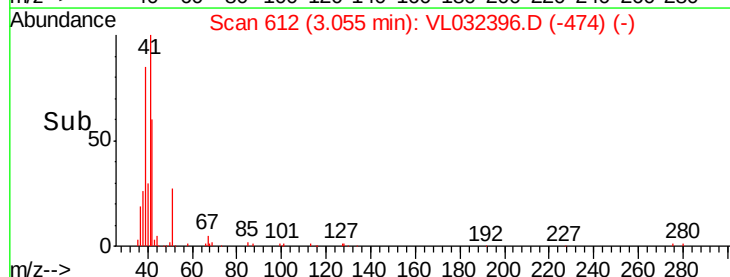
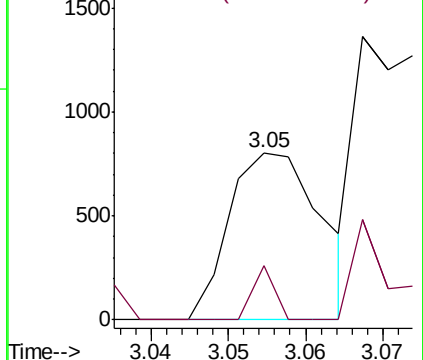
85 100

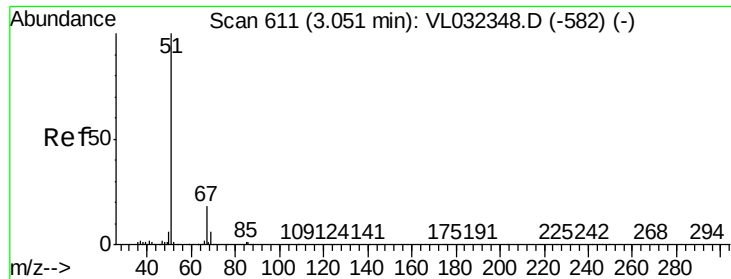
87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.162 ppbv

RT: 3.04 min Scan# 609

Delta R.T. -0.01 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

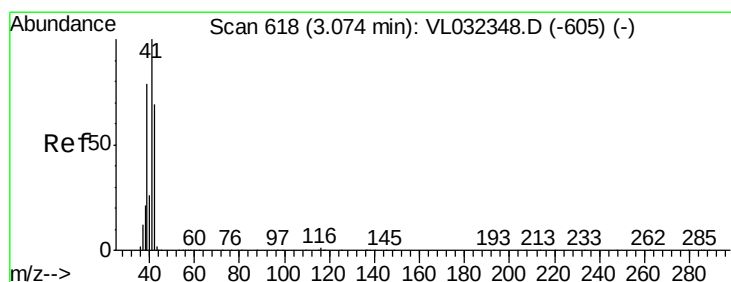
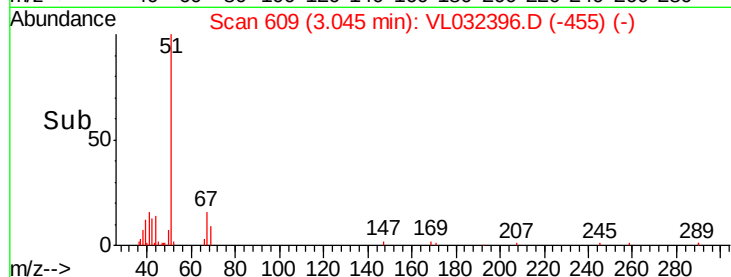
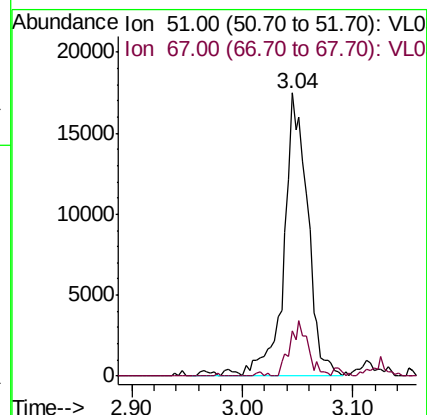
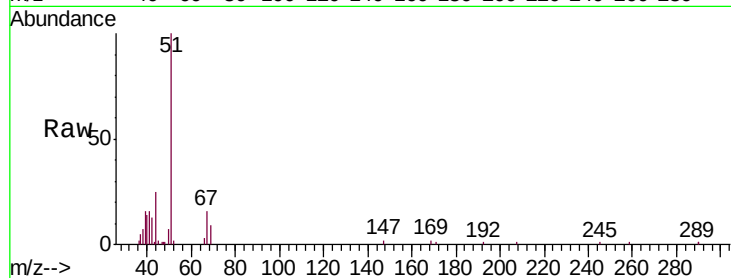
SS-1DL

Tgt Ion: 51 Resp: 26359

Ion Ratio Lower Upper

51 100

67 15.3 13.7 20.5



#9

Propene

Concen: 9.106 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032396.D

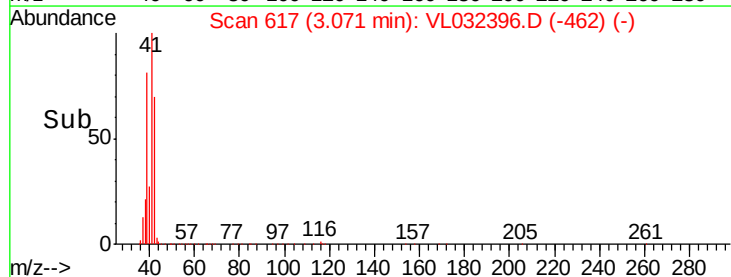
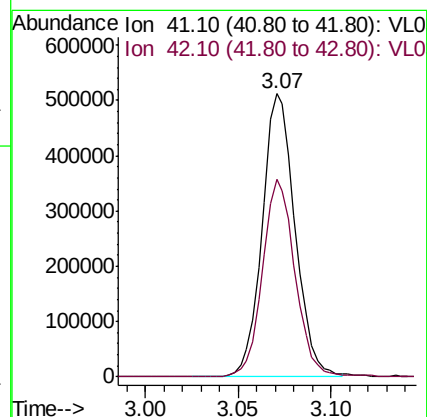
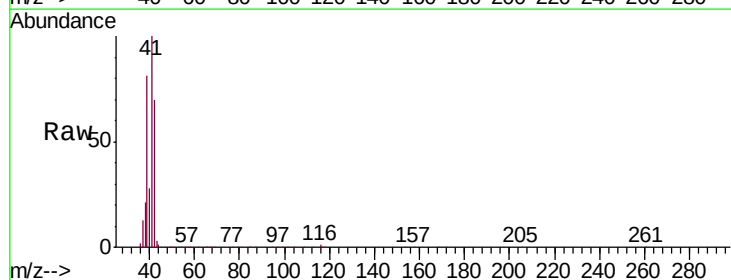
Acq: 17 Aug 2018 3:41

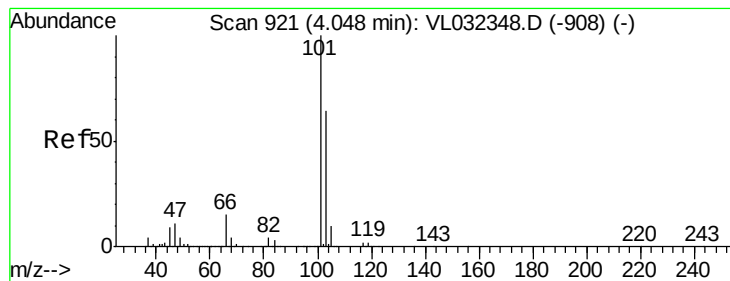
Tgt Ion: 41 Resp: 634534

Ion Ratio Lower Upper

41 100

42 69.8 55.9 83.9





#11

Trichlorofluoromethane

Concen: 0.129 ppbv

RT: 4.04 min Scan# 920

Delta R.T. -0.00 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

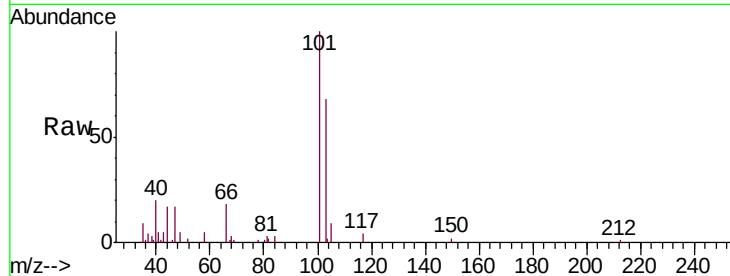
SS-1DL

Tgt Ion:101 Resp: 25262

Ion Ratio Lower Upper

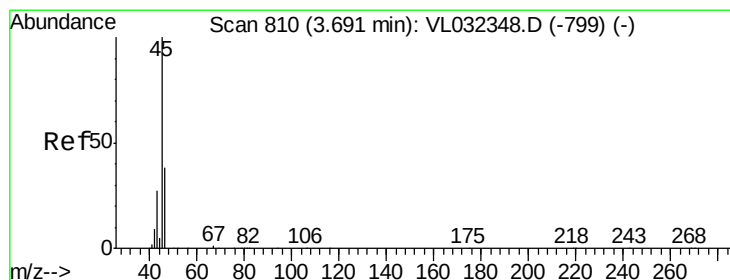
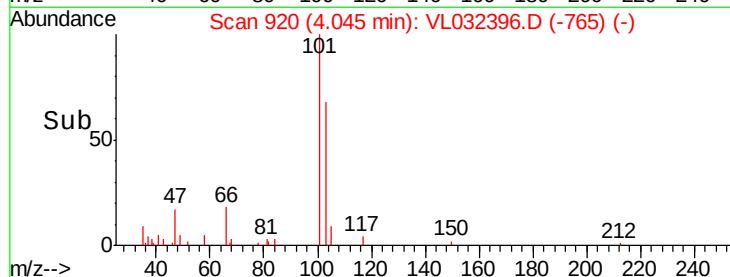
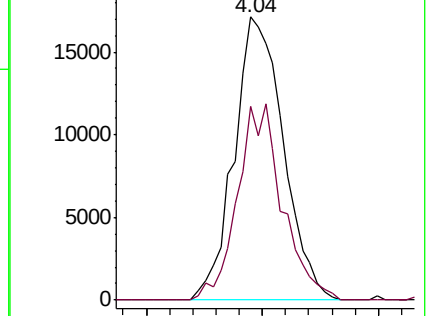
101 100

103 68.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 1.202 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL032396.D

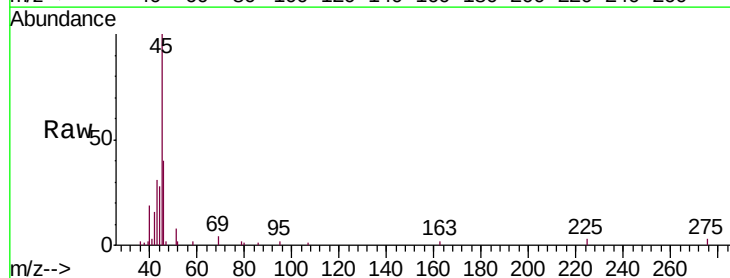
Acq: 17 Aug 2018 3:41

Tgt Ion: 45 Resp: 21519

Ion Ratio Lower Upper

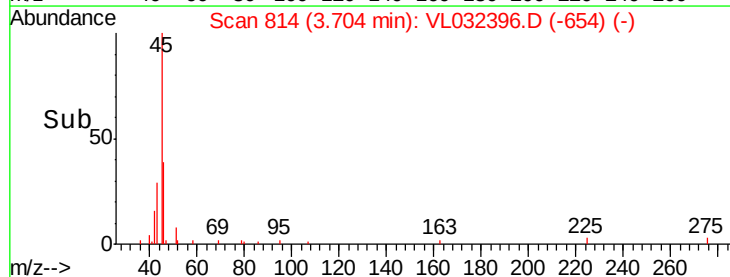
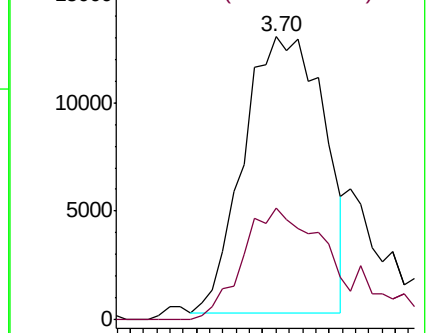
45 100

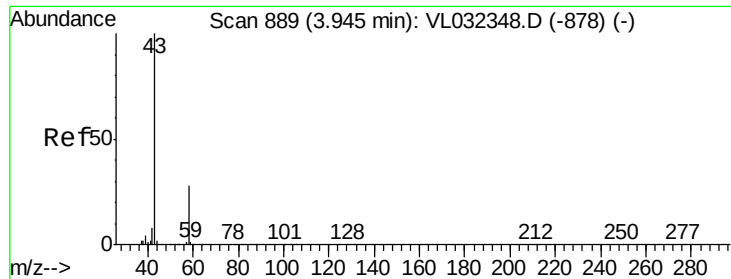
46 52.3 15.6 62.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

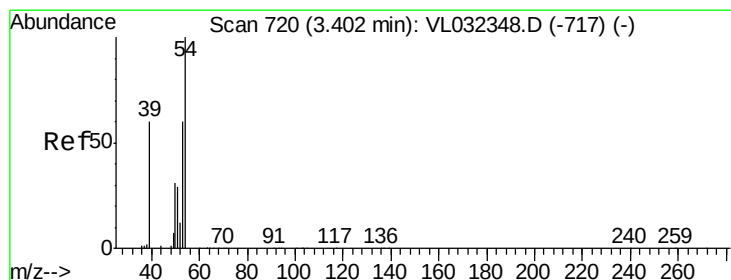
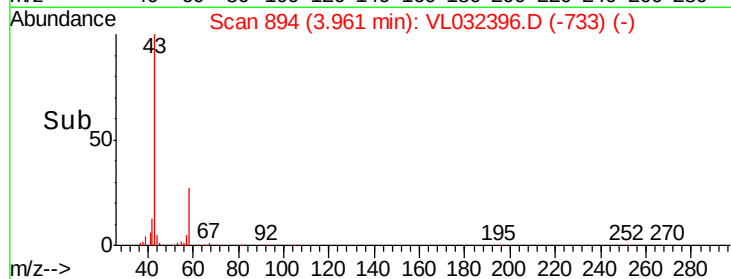
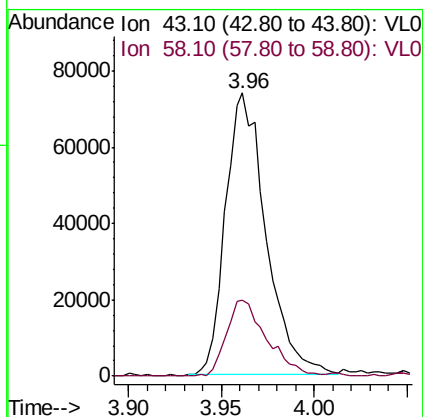
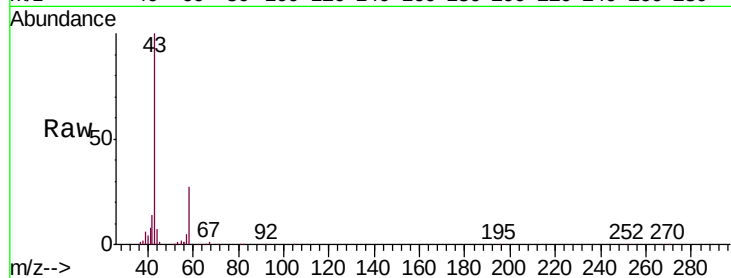




#15
Acetone
Concen: 0.672 ppbv
RT: 3.96 min Scan# 894
Delta R.T. 0.02 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

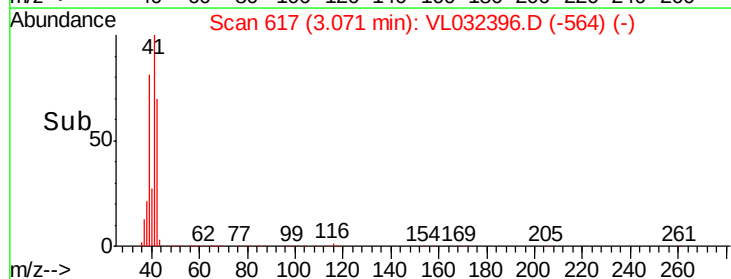
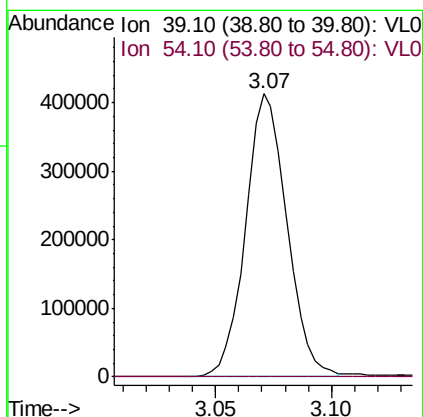
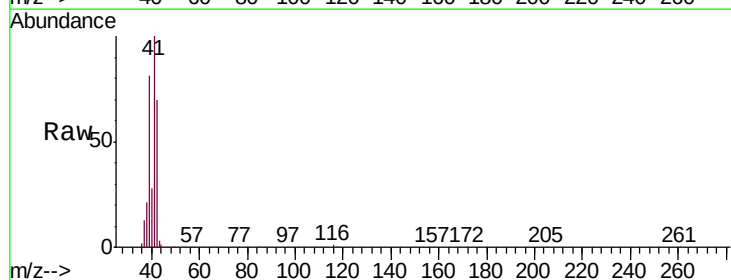
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

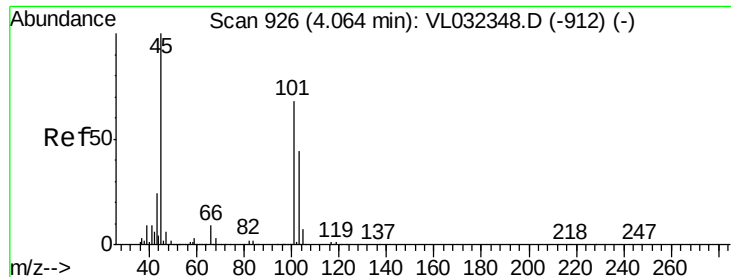
Tgt Ion: 43 Resp: 112269
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6



#16
1,3-Butadiene
Concen: 7.425 ppbv
RT: 3.07 min Scan# 617
Delta R.T. -0.33 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

Tgt Ion: 39 Resp: 511955
Ion Ratio Lower Upper
39 100
54 0.1 85.5 128.3#





#19

Isopropyl Alcohol

Concen: 1.051 ppbv

RT: 4.09 min Scan# 933

Delta R.T. 0.02 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

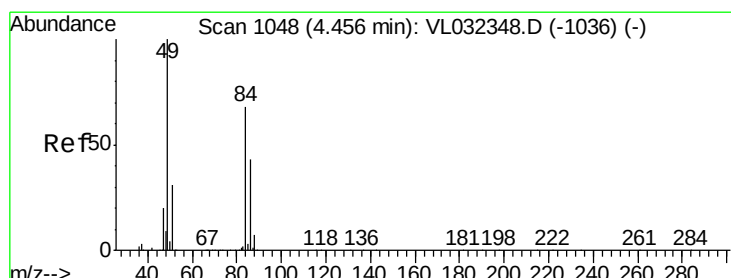
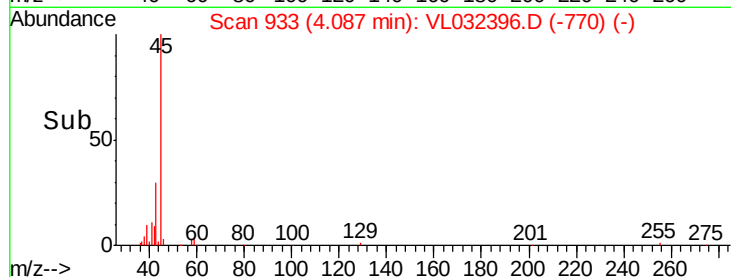
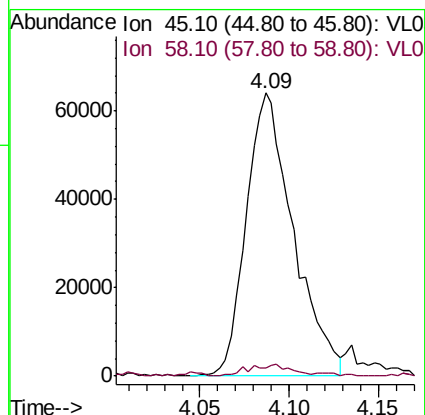
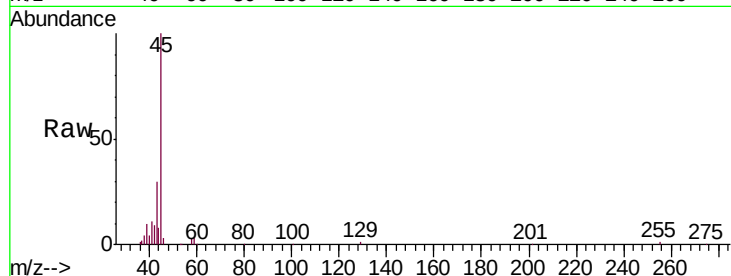
SS-1DL

Tgt Ion: 45 Resp: 118181

Ion Ratio Lower Upper

45 100

58 4.8 1.4 2.0#



#20

Methylene Chloride

Concen: 0.077 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Tgt Ion: 84 Resp: 4849

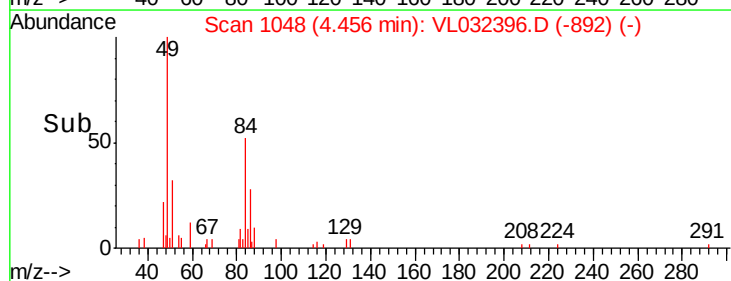
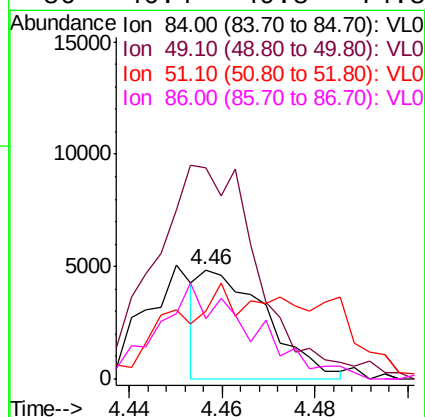
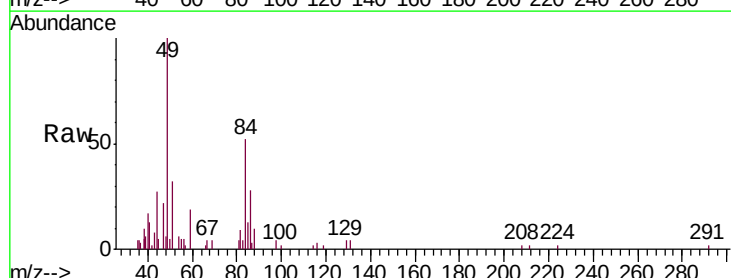
Ion Ratio Lower Upper

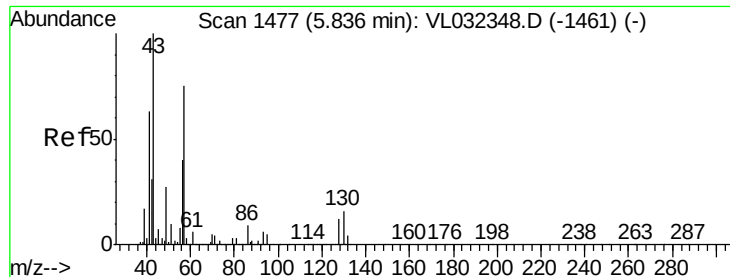
84 100

49 190.7 117.3 175.9#

51 13.2 36.6 55.0#

86 46.4 49.8 74.8#

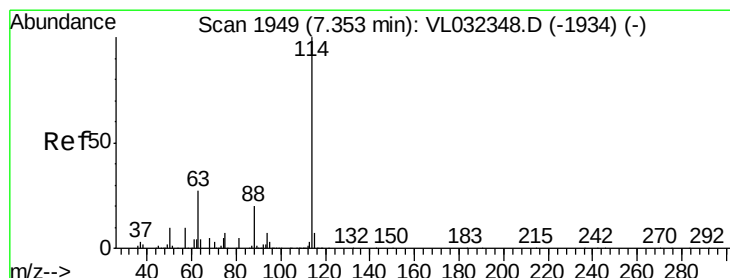
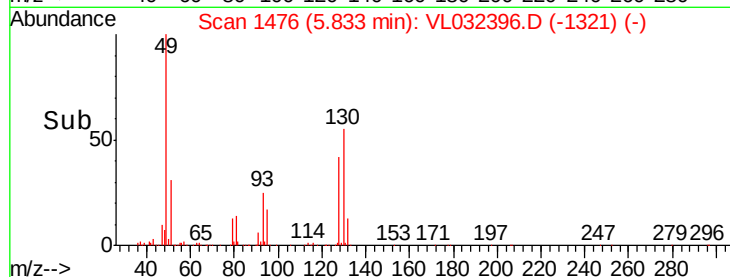
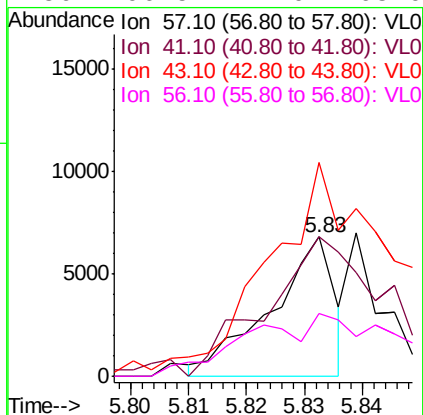
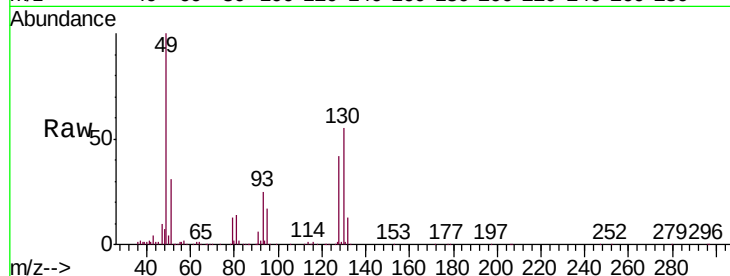




#26
Hexane
Concen: 0.032 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

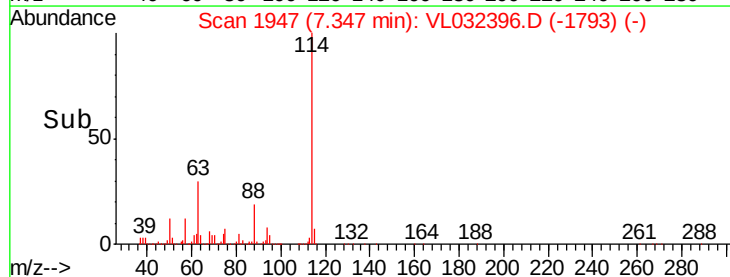
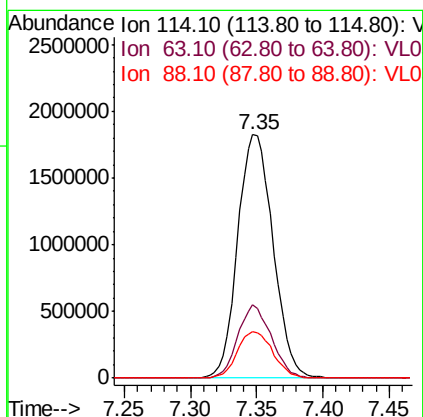
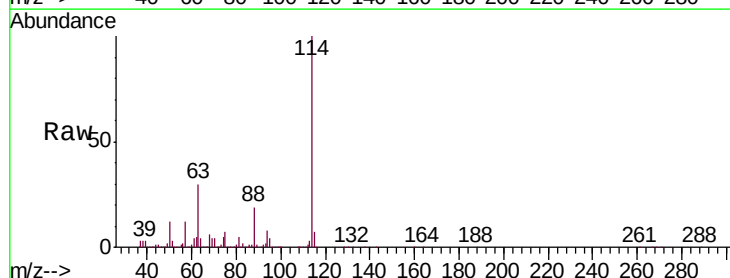
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

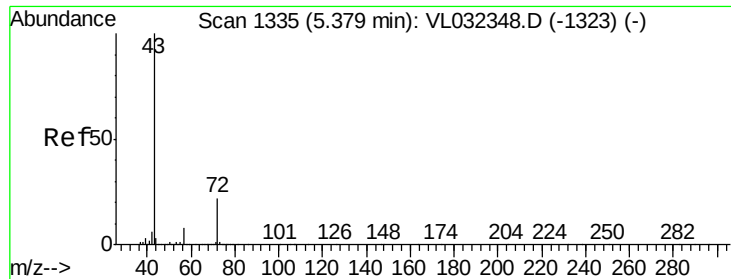
Tgt Ion:	57	Resp:	5134
Ion	Ratio	Lower	Upper
57	100		
41	215.6	68.0	102.0#
43	336.9	175.3	262.9#
56	106.5	42.0	63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.35 min Scan# 1947
Delta R.T. -0.01 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

Tgt Ion:	114	Resp:	3381851
Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.0	33.0
88	19.2	15.3	22.9

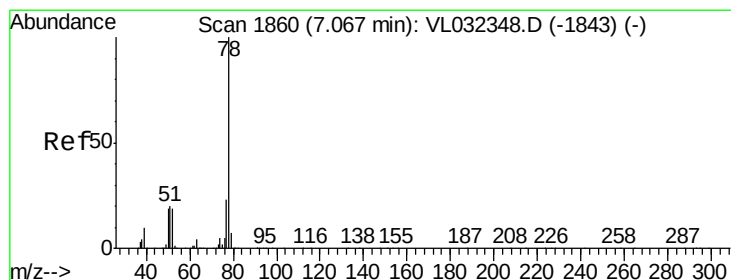
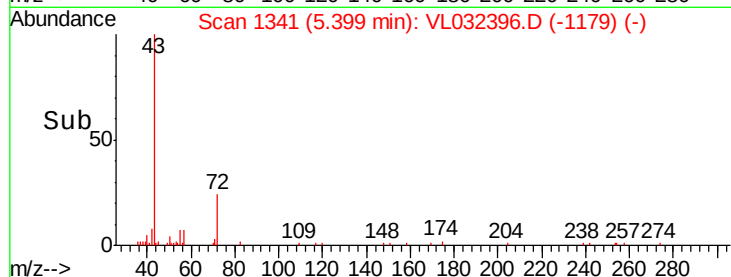
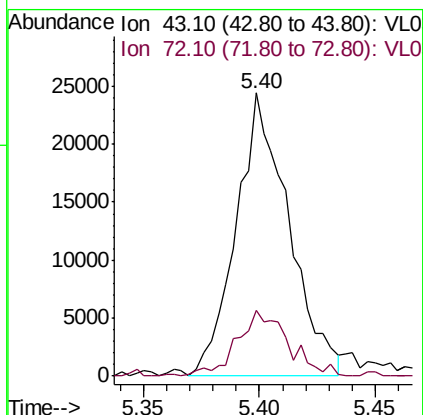
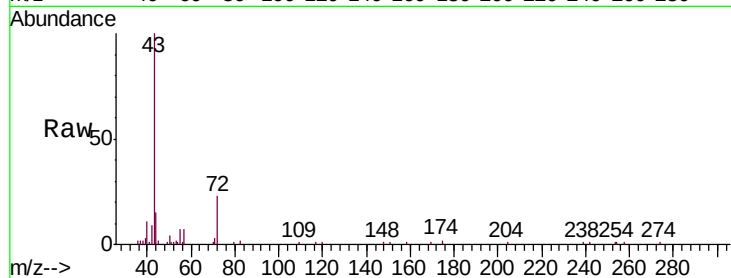




#34
2-Butanone
Concen: 0.167 ppbv
RT: 5.40 min Scan# 1341
Delta R.T. 0.02 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

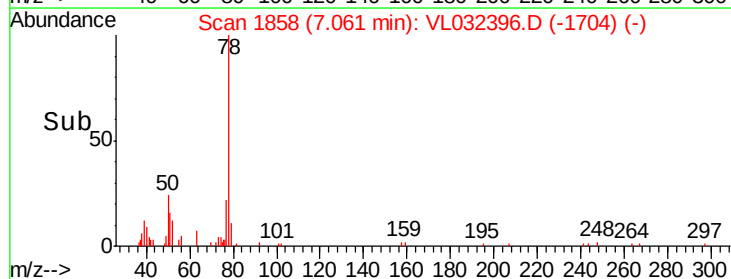
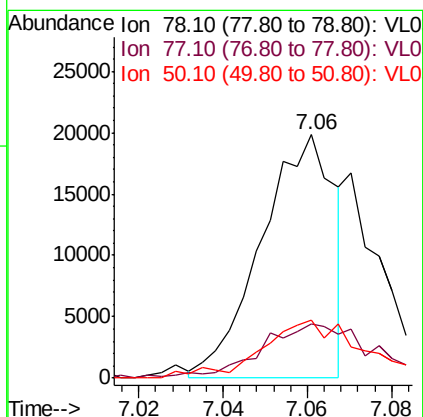
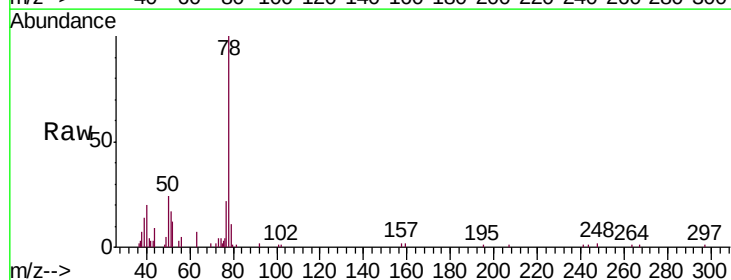
Instrument :
MSVOA_L
ClientSampled :
SS-1DL

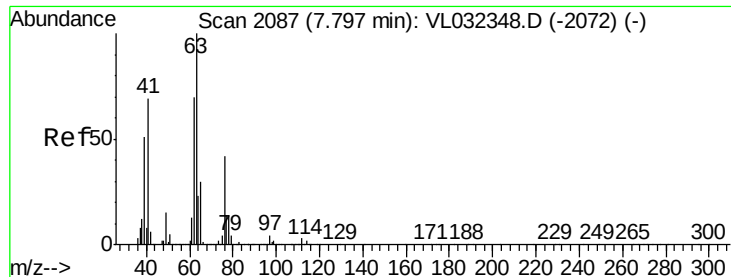
Tgt Ion: 43 Resp: 38470
Ion Ratio Lower Upper
43 100
72 23.0 17.9 26.9



#36
Benzene
Concen: 0.083 ppbv
RT: 7.06 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

Tgt Ion: 78 Resp: 23863
Ion Ratio Lower Upper
78 100
77 20.5 18.0 27.0
50 22.9 15.1 22.7#





#39

1,2-Dichloropropane

Concen: 8.044 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.45 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

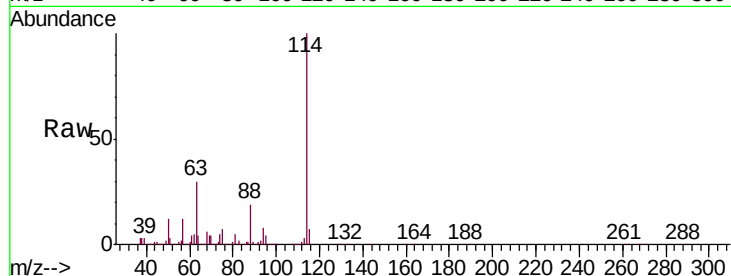
Tgt Ion: 63 Resp: 963421

Ion Ratio Lower Upper

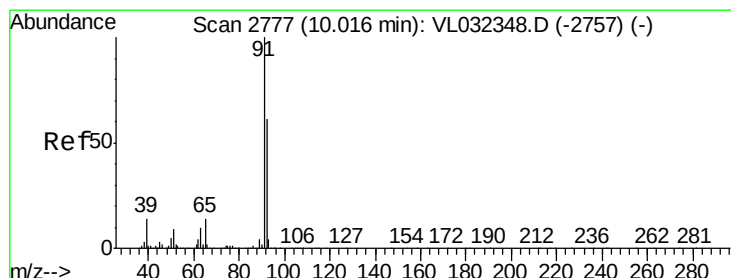
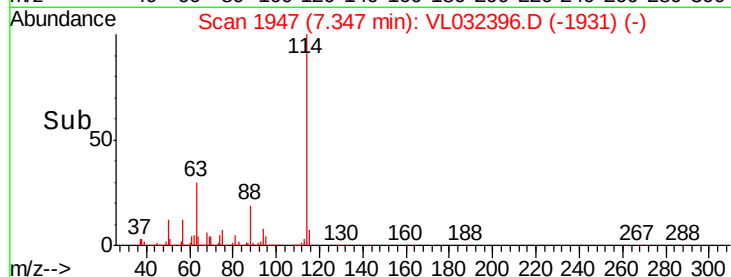
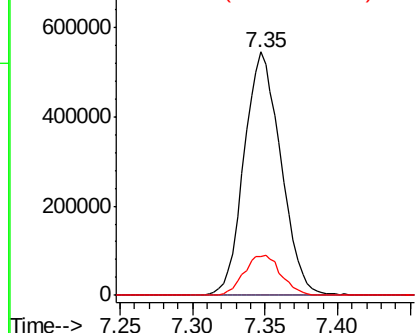
63 100

41 0.0 55.5 83.3#

62 15.8 56.3 84.5#



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



#53

Toluene

Concen: 0.057 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032396.D

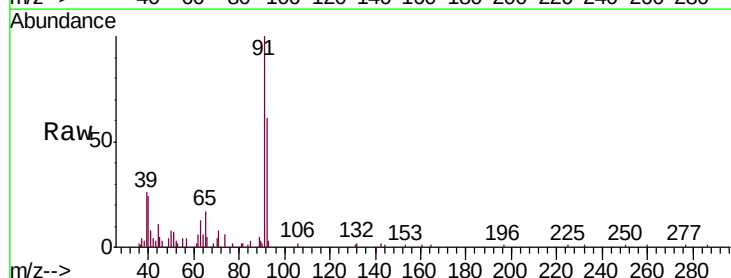
Acq: 17 Aug 2018 3:41

Tgt Ion: 91 Resp: 17776

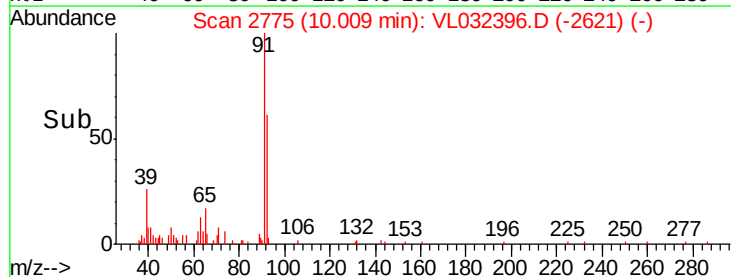
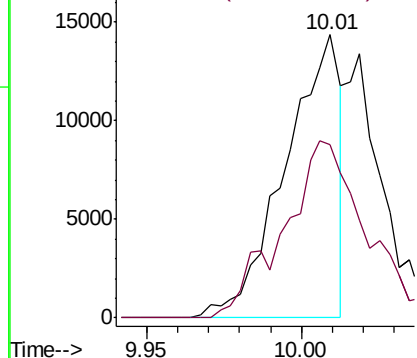
Ion Ratio Lower Upper

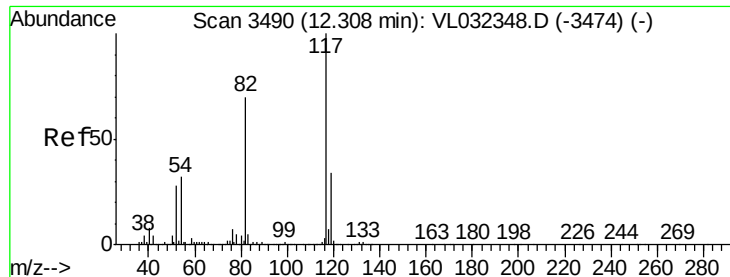
91 100

92 96.1 48.7 73.1#



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

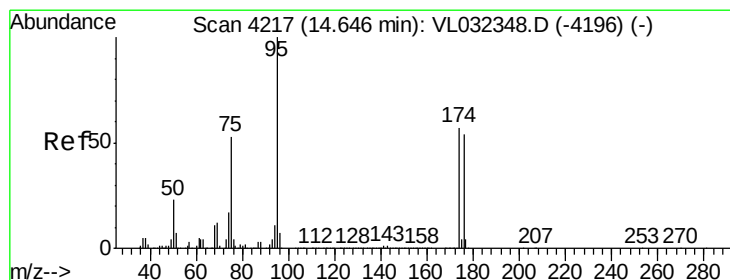
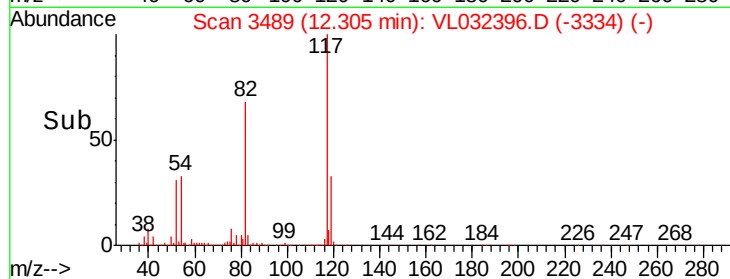
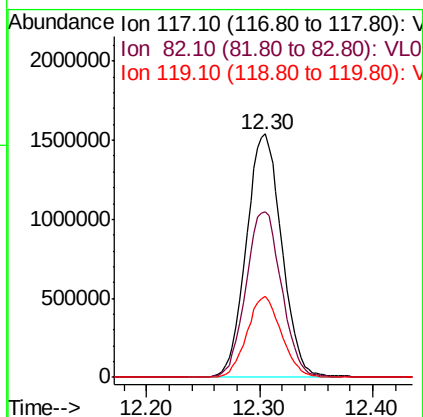
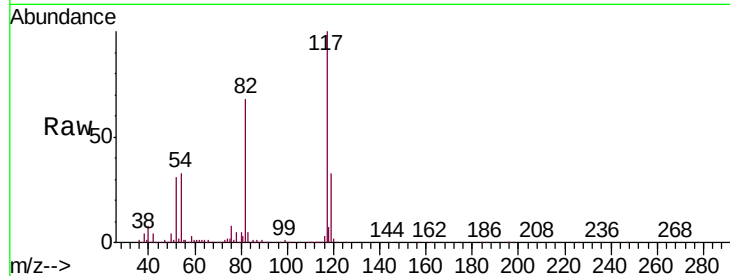




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

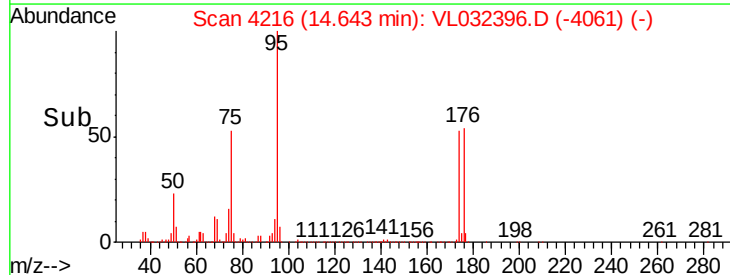
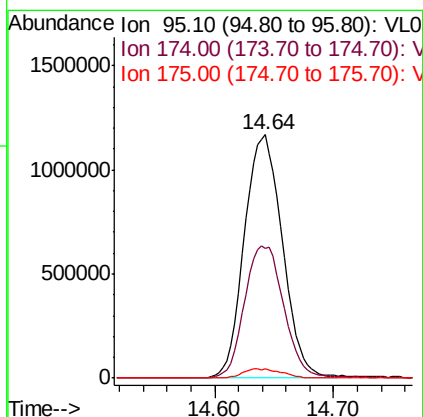
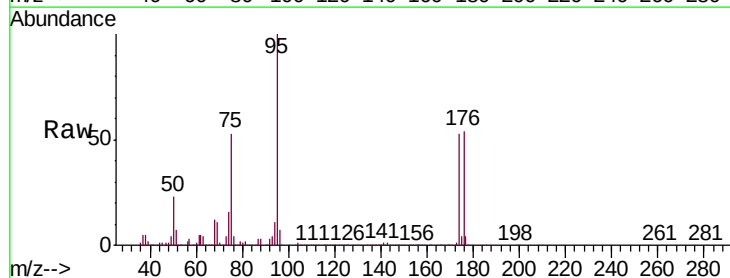
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

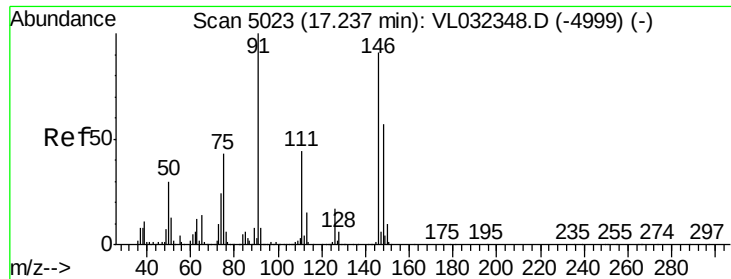
Tgt Ion: 117 Resp: 3346795
Ion Ratio Lower Upper
117 100
82 69.1 55.1 82.7
119 32.6 46.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.164 ppbv
RT: 14.64 min Scan# 4216
Delta R.T. -0.00 min
Lab File: VL032396.D
Acq: 17 Aug 2018 3:41

Tgt Ion: 95 Resp: 2595128
Ion Ratio Lower Upper
95 100
174 56.6 46.2 69.4
175 4.0 3.4 5.0

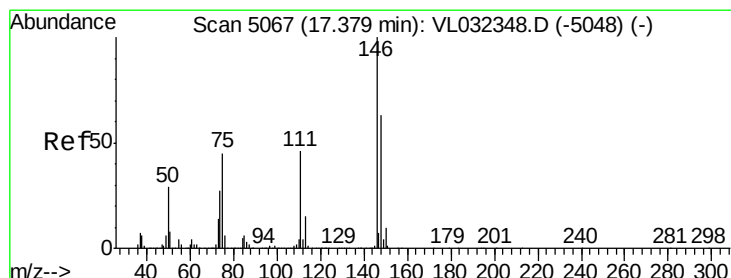
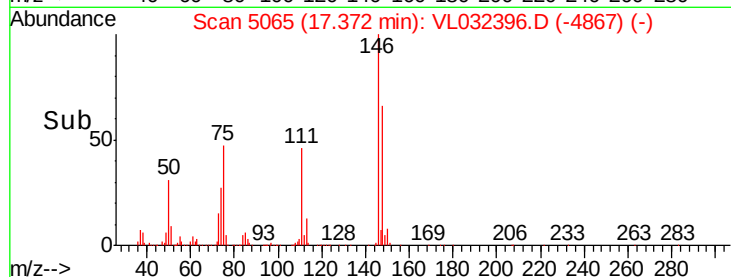
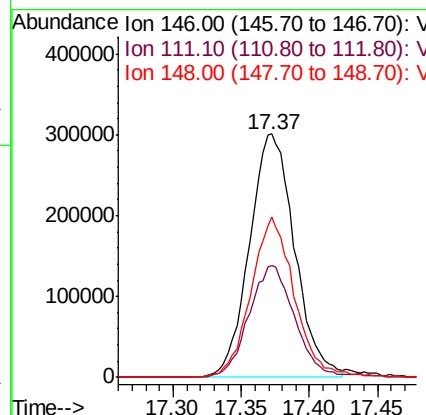
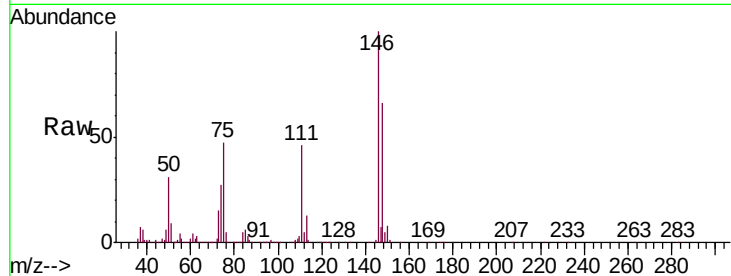




#75
 1,3-Dichlorobenzene
 Concen: 3.000 ppbv
 RT: 17.37 min Scan# 5065
 Delta R.T. 0.14 min
 Lab File: VL032396.D
 Acq: 17 Aug 2018 3:41

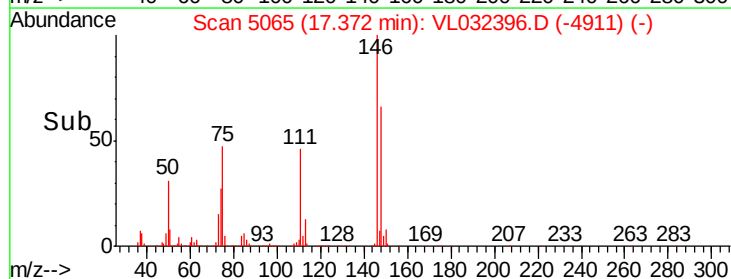
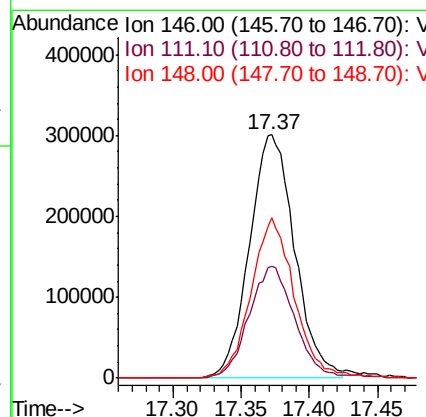
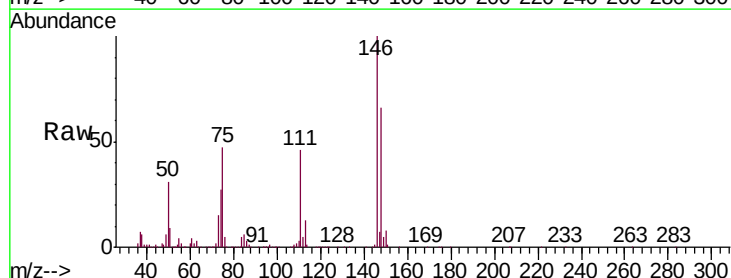
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

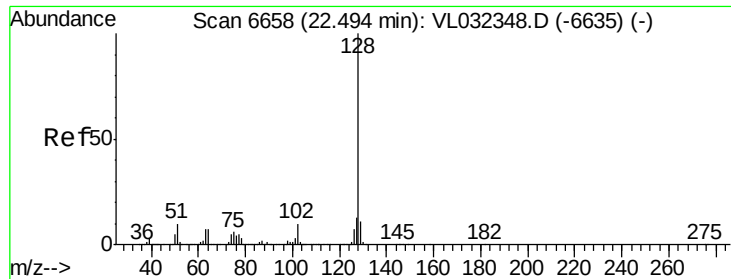
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.6	73.8
148	63.6	32.0	96.0



#76
 1,4-Dichlorobenzene
 Concen: 3.167 ppbv
 RT: 17.37 min Scan# 5065
 Delta R.T. -0.01 min
 Lab File: VL032396.D
 Acq: 17 Aug 2018 3:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.8	71.4
148	63.5	32.2	96.6





#79

Naphthalene

Concen: 0.330 ppbv

RT: 22.48 min Scan# 6655

Delta R.T. -0.01 min

Lab File: VL032396.D

Acq: 17 Aug 2018 3:41

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tgt Ion:128 Resp: 970

Ion Ratio Lower Upper

128 100

127 27.5 10.3 15.5#

129 0.0 8.6 13.0#

