

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111919\
 Data File : VL034396.D
 Acq On : 20 Nov 2019 2:11
 Operator : SY/AP
 Sample : K5924-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 20 04:07:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 03:30:54 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	935912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1850520	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1792282	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1545956	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

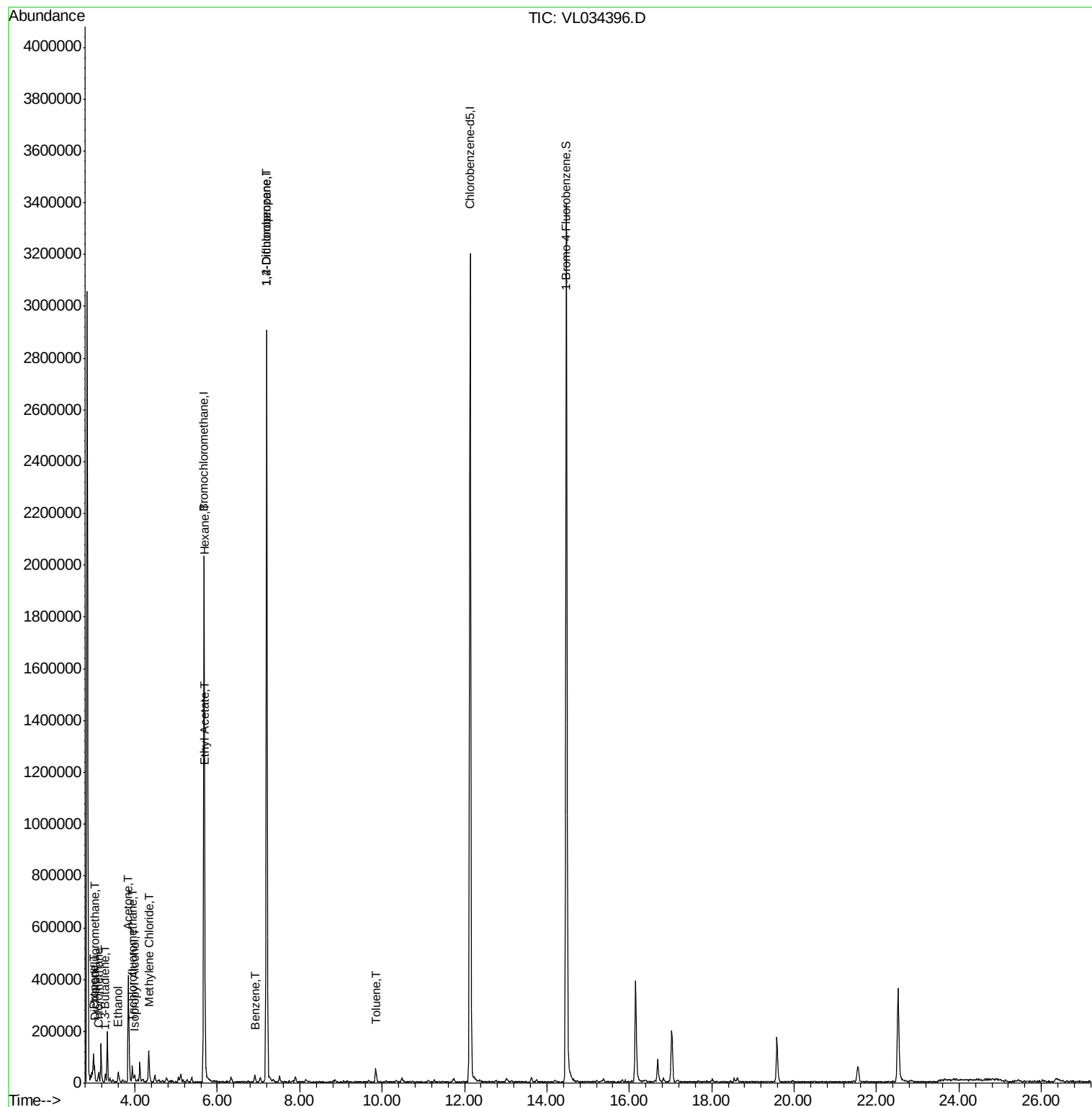
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	36976	0.218	ppbv	89
4) Chloromethane	3.12	50	26118	0.379	ppbv	91
9) Propene	2.99	41	12395	0.239	ppbv #	16
11) Trichlorofluoromethane	3.94	101	34590	0.205	ppbv	92
13) Ethanol	3.60	45	36915	2.431	ppbv	90
15) Acetone	3.83	43	428357	3.196	ppbv	96
16) 1,3-Butadiene	3.29	39	3343	0.057	ppbv #	79
19) Isopropyl Alcohol	3.97	45	19784	0.203	ppbv #	96
20) Methylene Chloride	4.34	84	25096	0.528	ppbv	93
25) Ethyl Acetate	5.70	43	41645	0.174	ppbv #	79
26) Hexane	5.69	57	25940	0.252	ppbv #	1
36) Benzene	6.91	78	14004	0.076	ppbv #	88
39) 1,2-Dichloropropane	7.20	63	556831	7.101	ppbv #	23
53) Toluene	9.84	91	23067	0.110	ppbv #	81

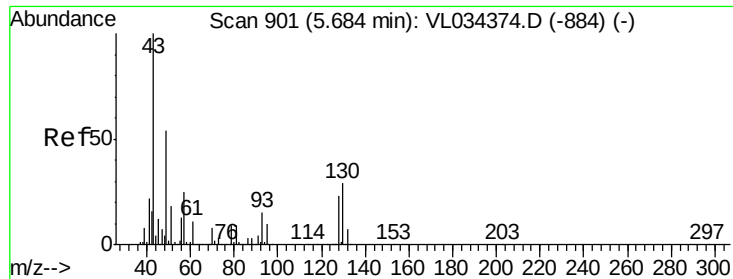
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OA1

Quant Time: Nov 20 04:07:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 03:30:54 2019
QLast Update : Wed Nov 20 03:30:54 2019
Response via : Initial Calibration

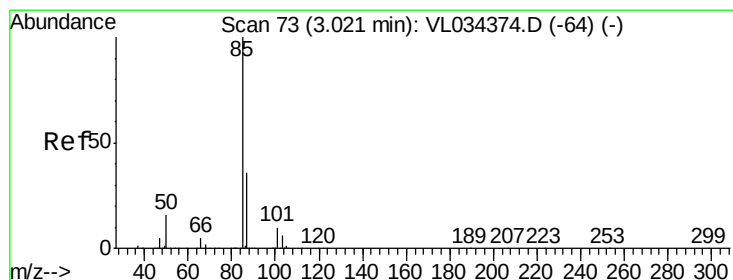
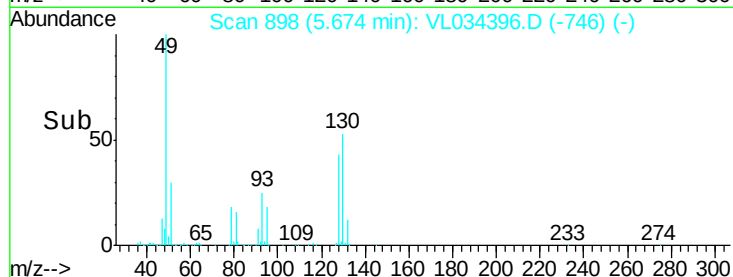
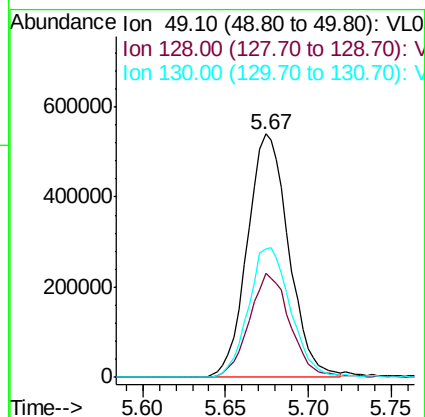
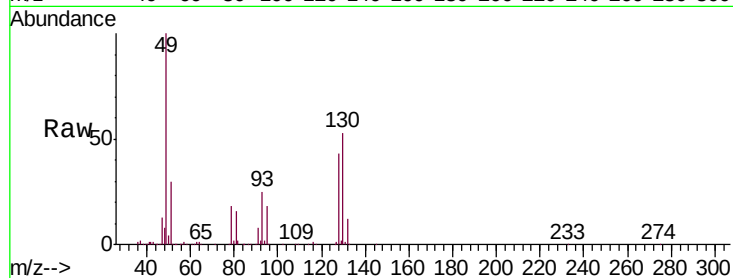




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

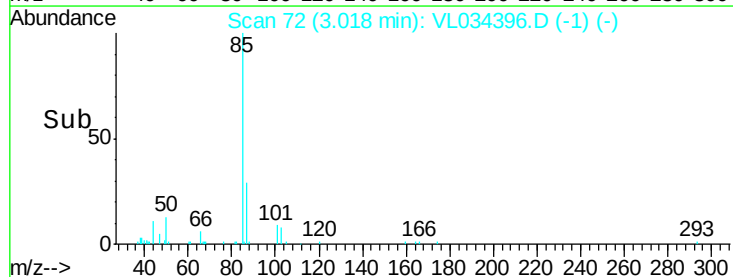
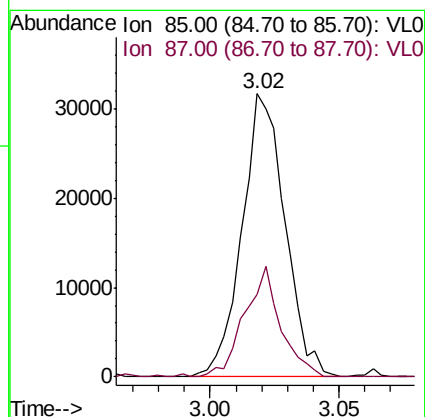
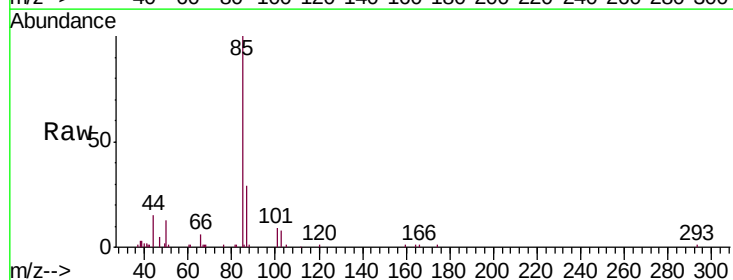
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

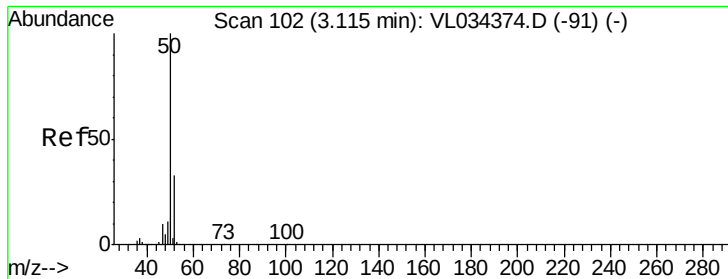
Tgt Ion: 49 Resp: 935912
 Ion Ratio Lower Upper
 49 100
 128 42.6 21.8 65.3
 130 54.9 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.218 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. -0.00 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

Tgt Ion: 85 Resp: 36976
 Ion Ratio Lower Upper
 85 100
 87 29.0 28.5 42.7





#4

Chloromethane

Concen: 0.379 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.00 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

ClientSampleId :

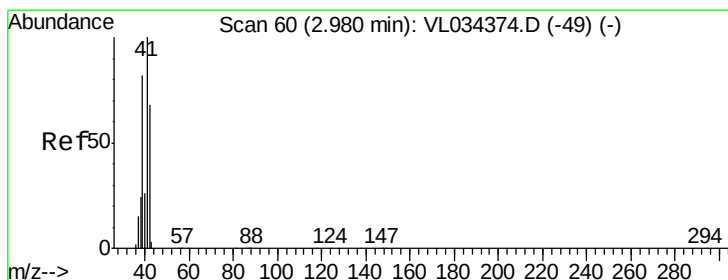
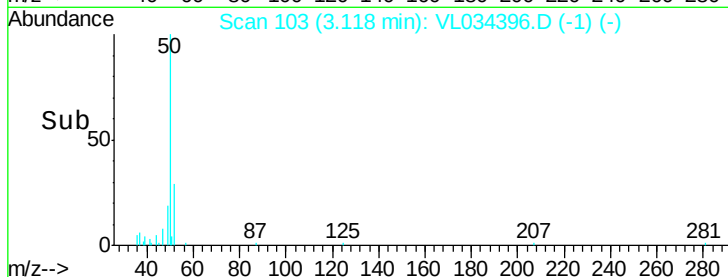
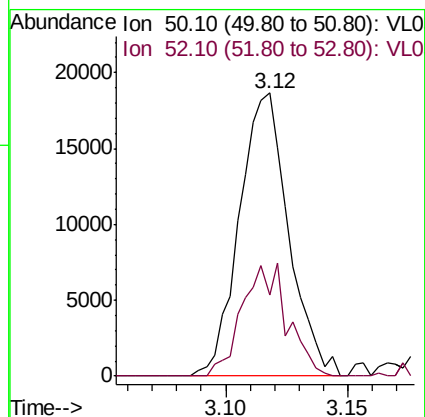
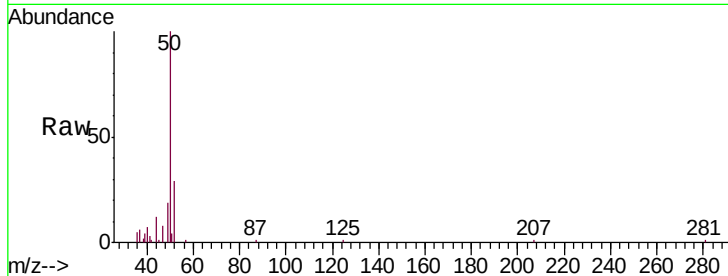
OA1

Tgt Ion: 50 Resp: 26118

Ion Ratio Lower Upper

50 100

52 28.5 26.8 40.2



#9

Propene

Concen: 0.239 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034396.D

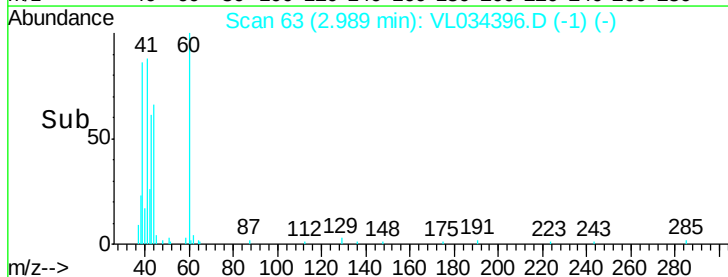
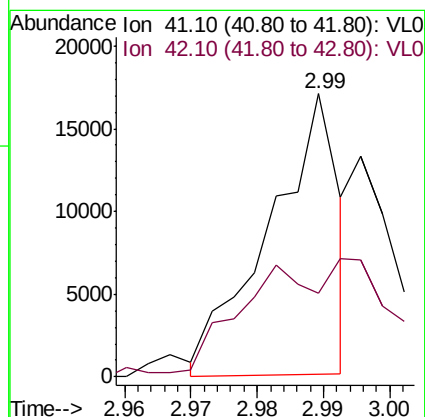
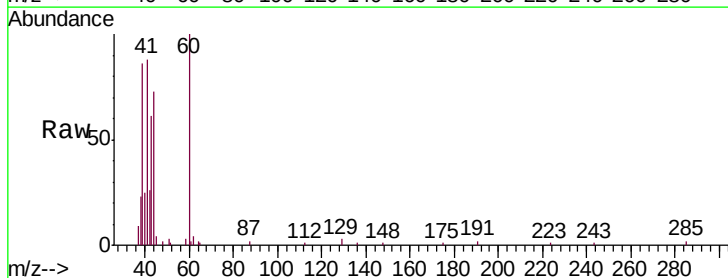
Acq: 20 Nov 2019 2:11

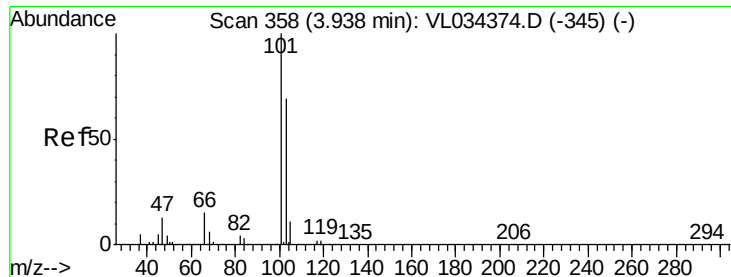
Tgt Ion: 41 Resp: 12395

Ion Ratio Lower Upper

41 100

42 0.0 54.6 82.0#

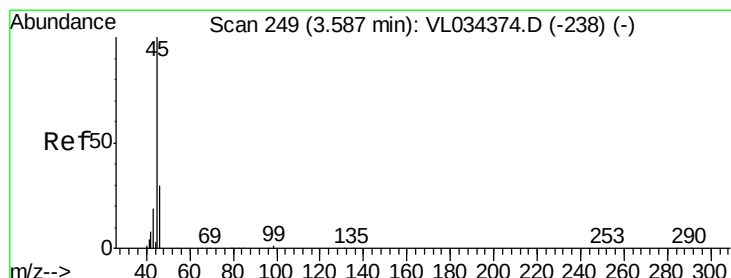
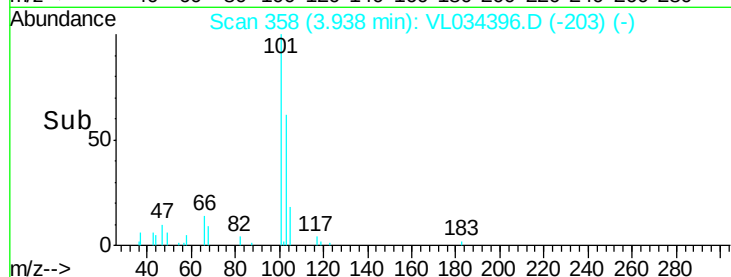
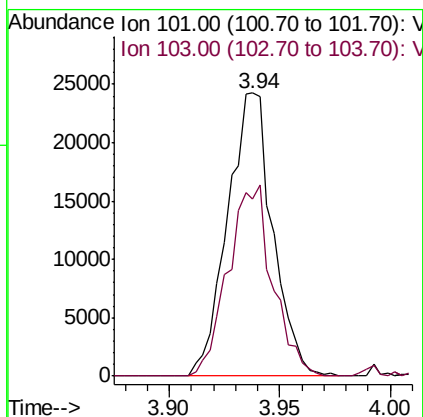
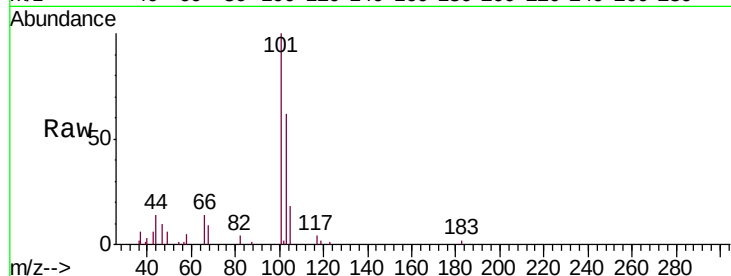




#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

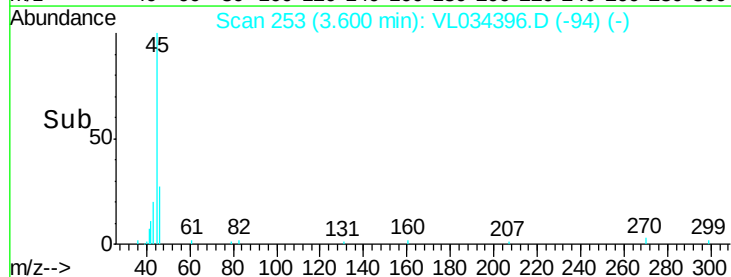
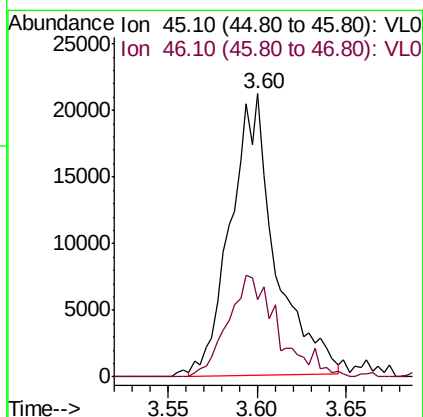
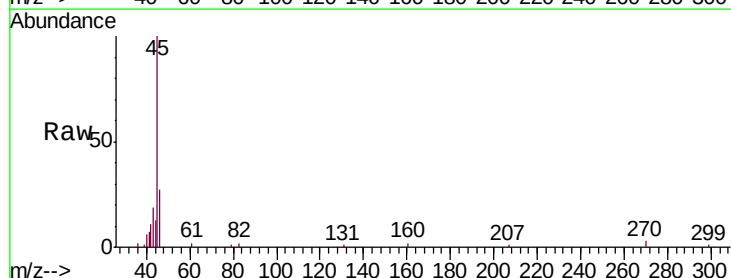
Instrument :
 MSVOA_L
 ClientSampled :
 OA1

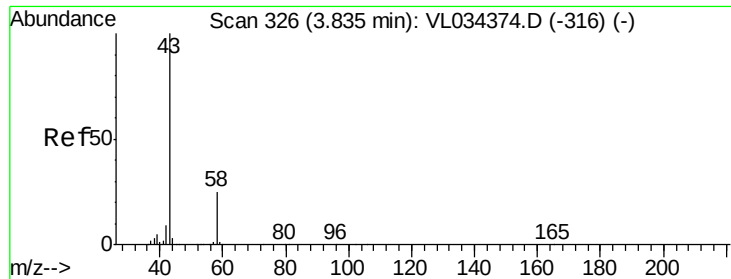
Tgt Ion: 101 Resp: 34590
 Ion Ratio Lower Upper
 101 100
 103 62.4 55.4 83.0



#13
 Ethanol
 Concen: 2.431 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. 0.01 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

Tgt Ion: 45 Resp: 36915
 Ion Ratio Lower Upper
 45 100
 46 40.6 13.8 55.4





#15

Acetone

Concen: 3.196 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

ClientSampleId :

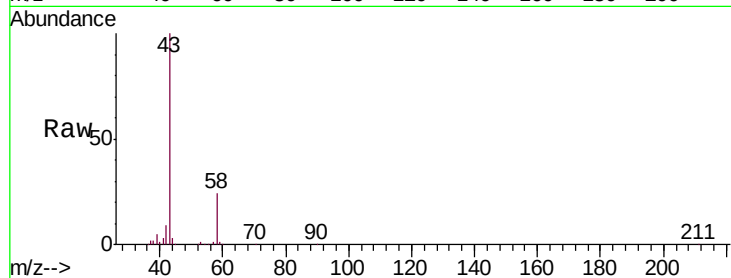
OA1

Tgt Ion: 43 Resp: 428357

Ion Ratio Lower Upper

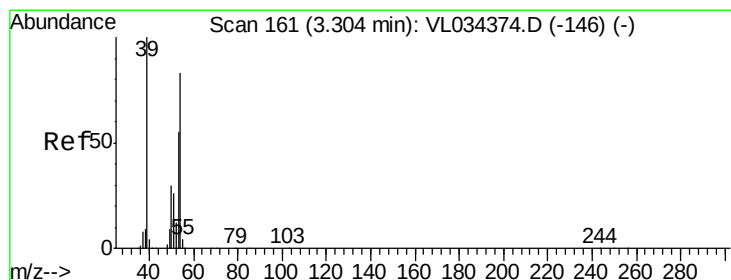
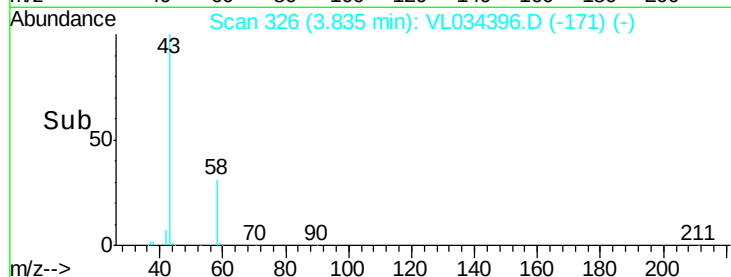
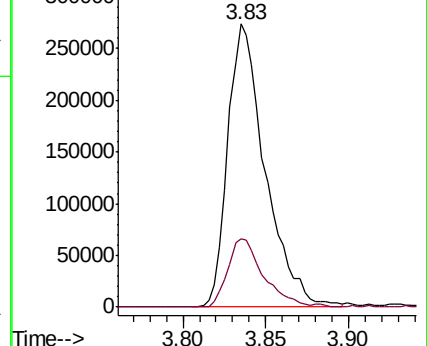
43 100

58 23.5 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.057 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.02 min

Lab File: VL034396.D

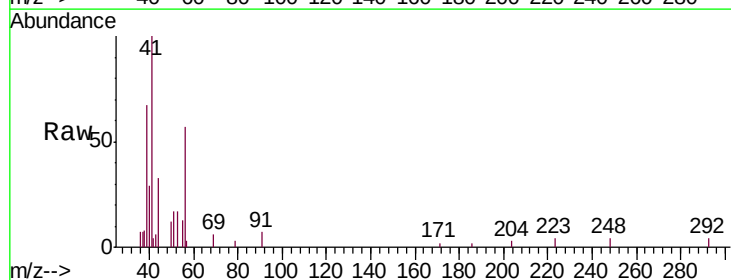
Acq: 20 Nov 2019 2:11

Tgt Ion: 39 Resp: 3343

Ion Ratio Lower Upper

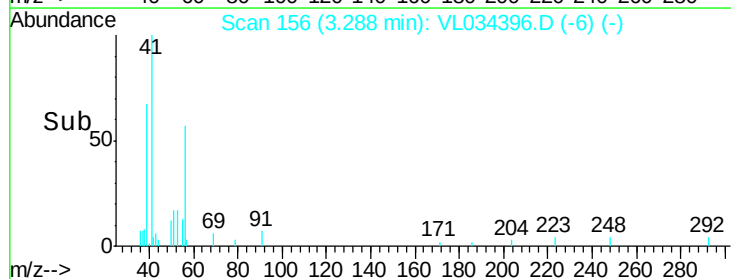
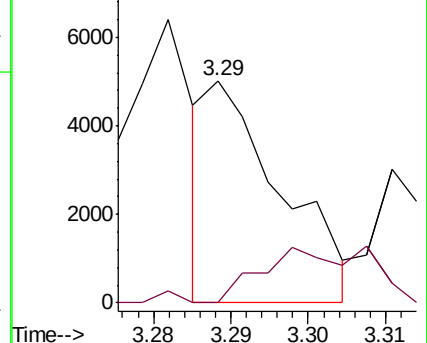
39 100

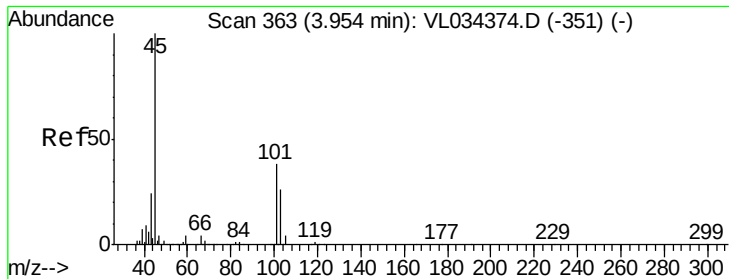
54 62.2 64.7 97.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

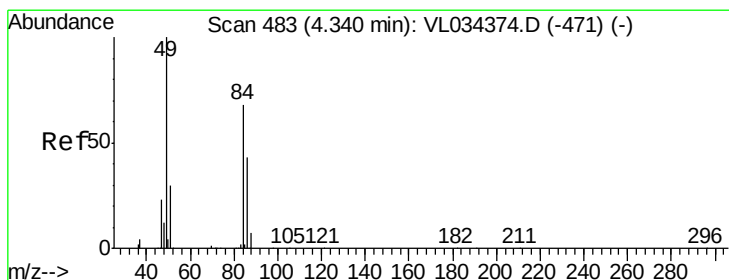
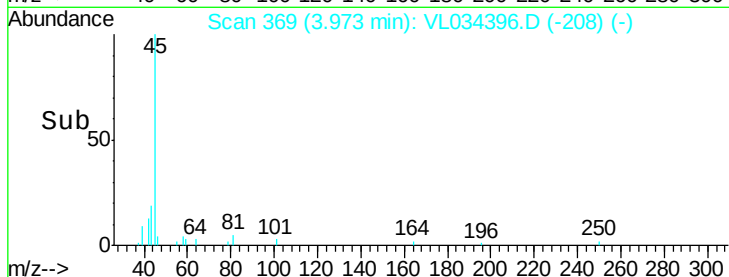
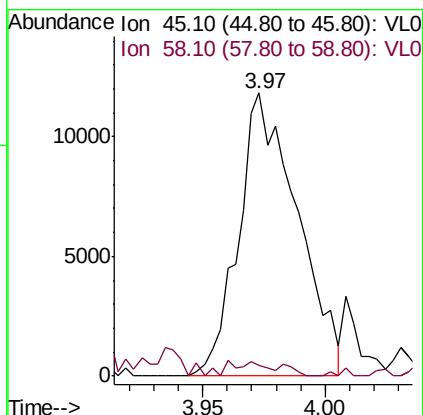
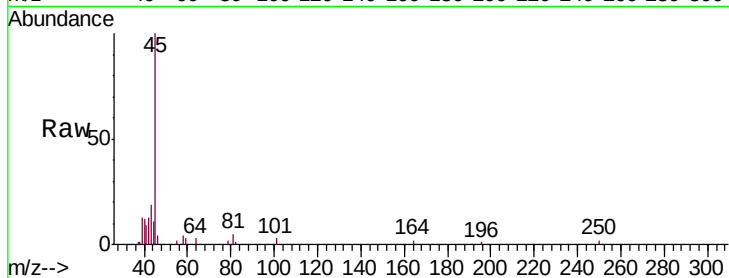




#19
Isopropyl Alcohol
Concen: 0.203 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

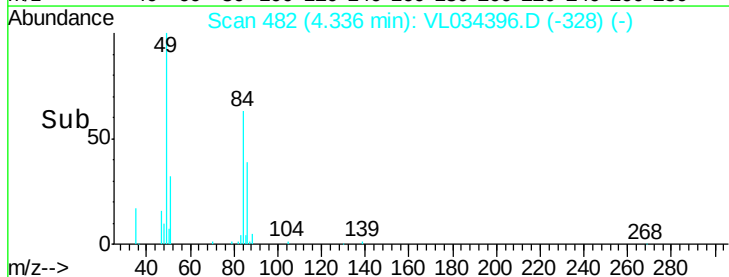
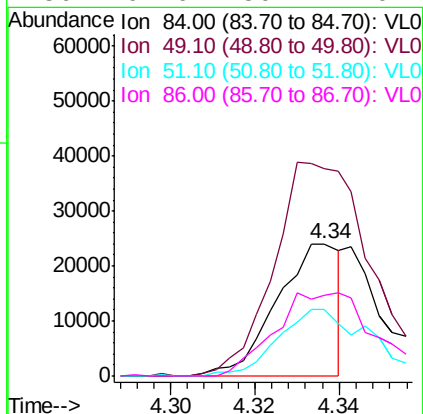
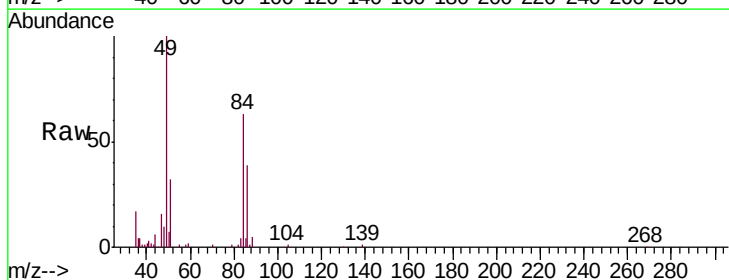
Instrument :
MSVOA_L
ClientSampled :
OA1

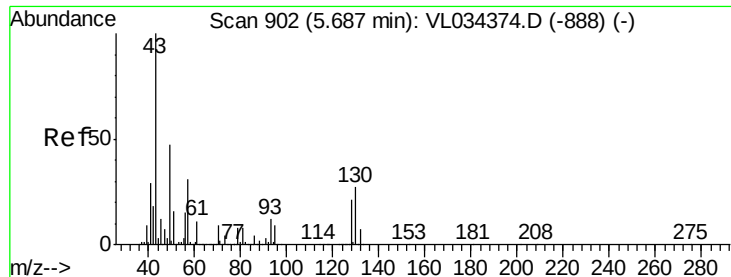
Tgt Ion: 45 Resp: 19784
Ion Ratio Lower Upper
45 100
58 0.0 1.3 1.9#



#20
Methylene Chloride
Concen: 0.528 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion: 84 Resp: 25096
Ion Ratio Lower Upper
84 100
49 157.5 116.8 175.2
51 50.1 35.6 53.4
86 61.6 50.7 76.1





#25

Ethyl Acetate

Concen: 0.174 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 43 Resp: 41645

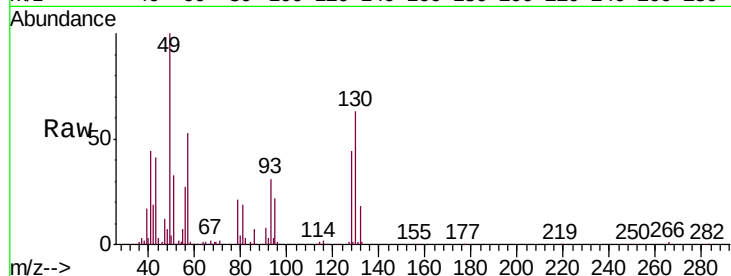
Ion Ratio Lower Upper

43 100

45 1.8 8.2 12.4#

61 0.7 7.5 11.3#

70 2.6 5.7 8.5#

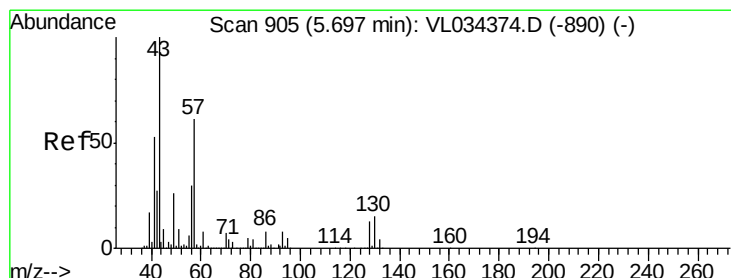
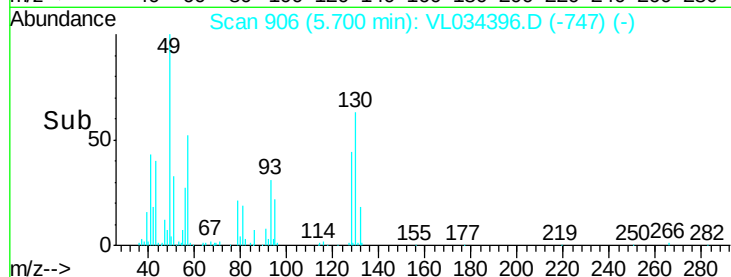
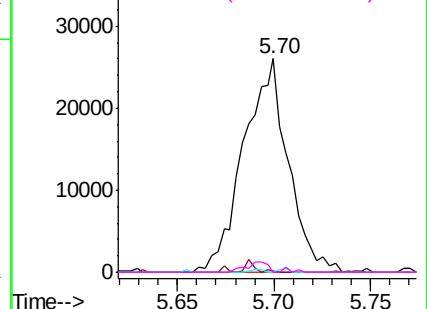


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.252 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Tgt Ion: 57 Resp: 25940

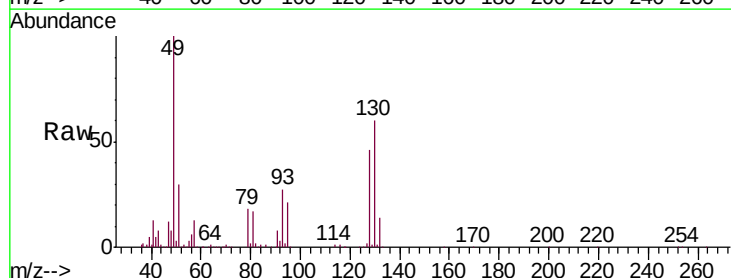
Ion Ratio Lower Upper

57 100

41 0.0 75.0 112.4#

43 0.0 186.6 279.8#

56 0.0 41.5 62.3#

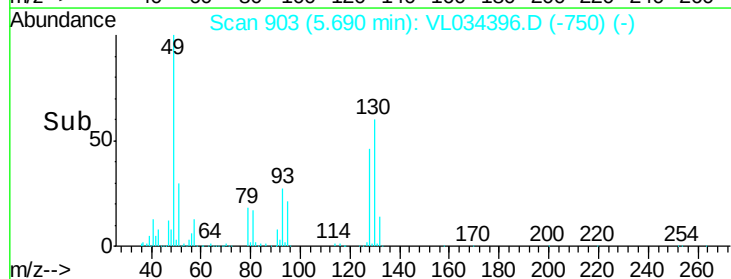
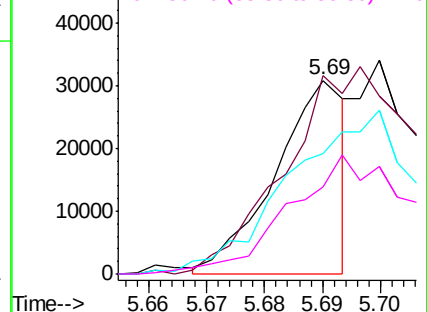


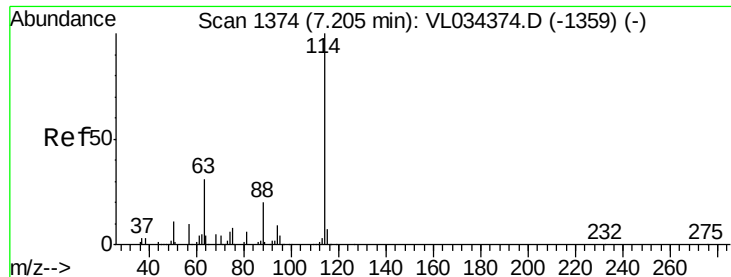
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

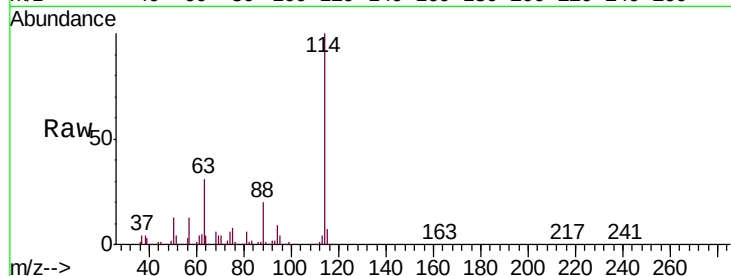




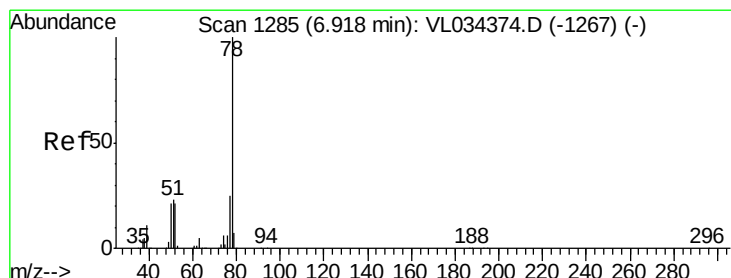
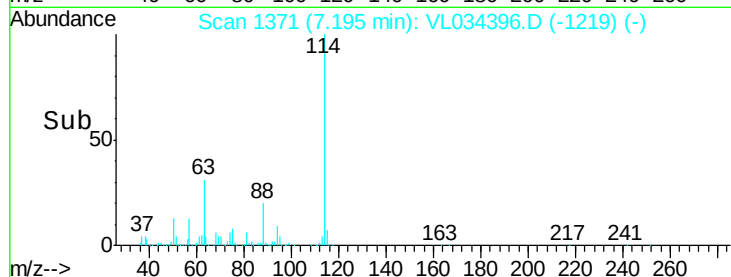
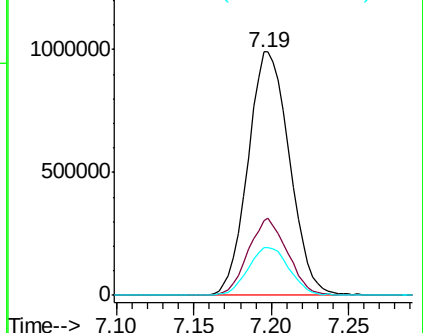
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.01 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion:114 Resp: 1850520
 Ion Ratio Lower Upper
 114 100
 63 30.2 24.2 36.4
 88 19.7 15.9 23.9

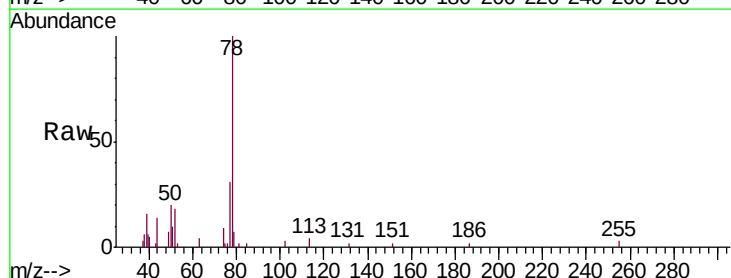


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

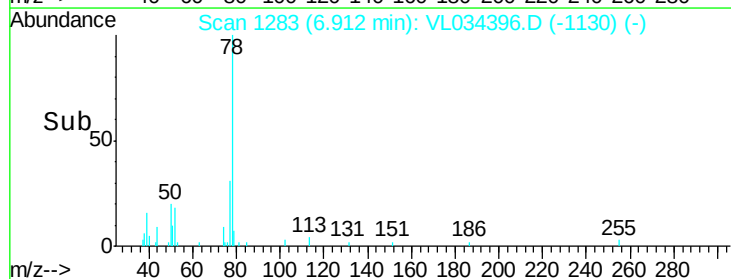
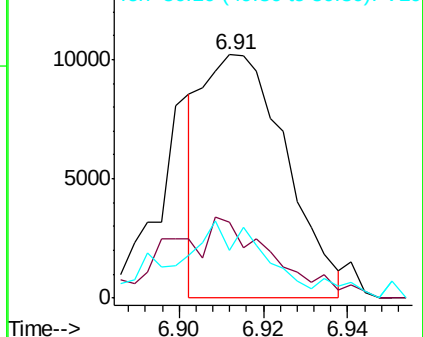


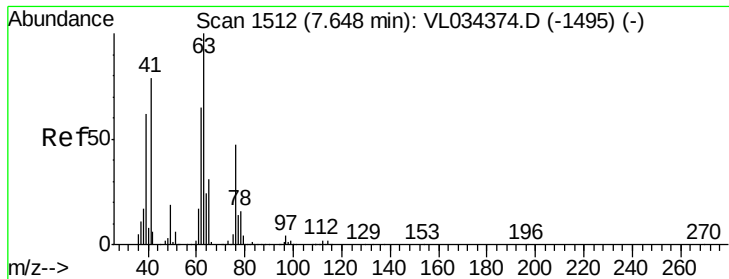
#36
 Benzene
 Concen: 0.076 ppbv
 RT: 6.91 min Scan# 1283
 Delta R.T. -0.01 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

Tgt Ion: 78 Resp: 14004
 Ion Ratio Lower Upper
 78 100
 77 18.8 20.2 30.4#
 50 16.3 17.1 25.7#



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

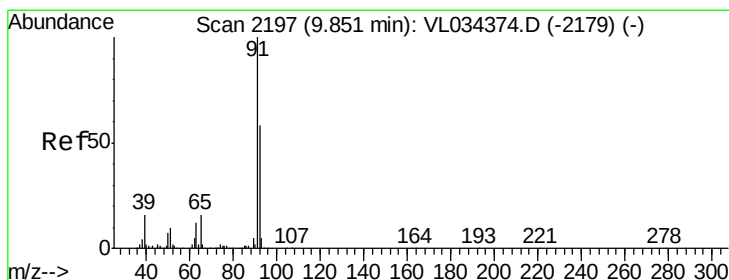
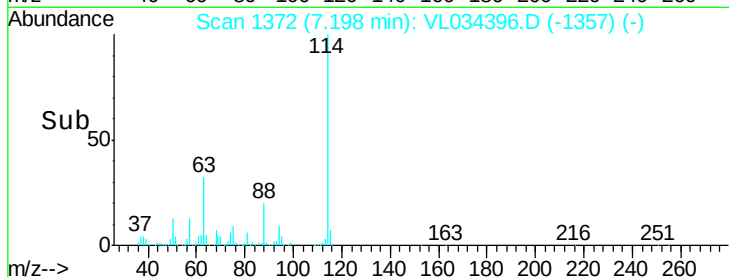
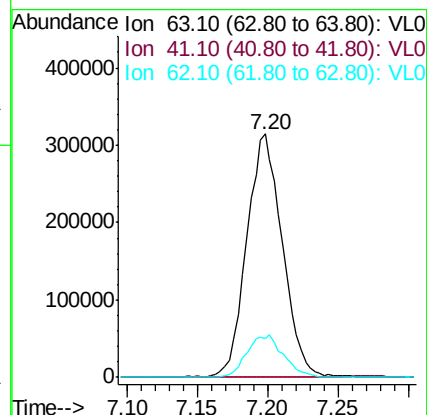
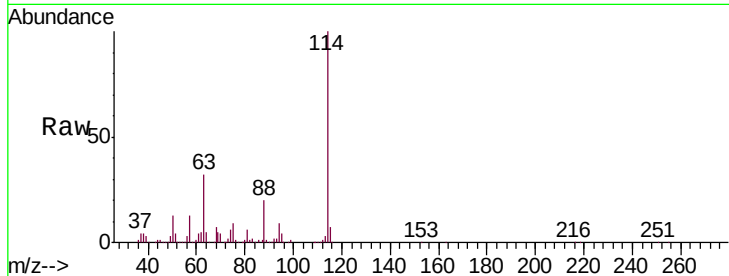




#39
 1,2-Dichloropropane
 Concen: 7.101 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.45 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

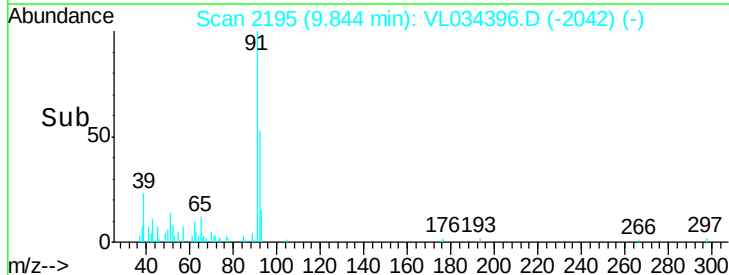
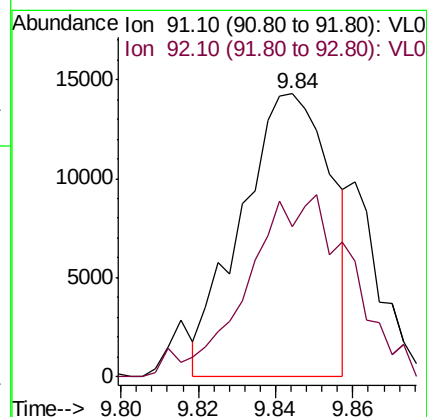
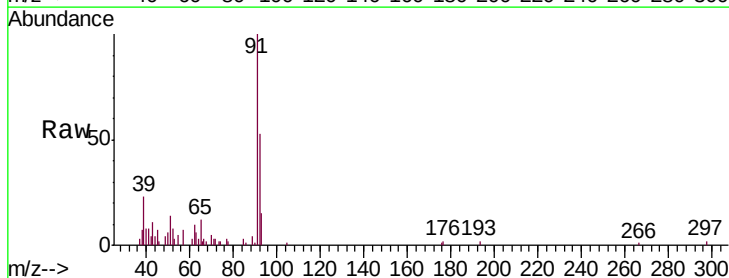
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

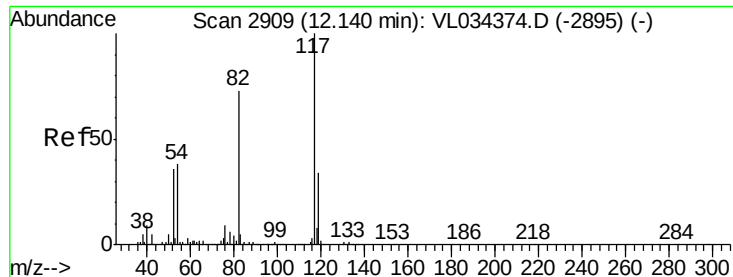
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.1	94.7#
62	16.2	52.3	78.5#



#53
 Toluene
 Concen: 0.110 ppbv
 RT: 9.84 min Scan# 2195
 Delta R.T. -0.01 min
 Lab File: VL034396.D
 Acq: 20 Nov 2019 2:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	74.4	47.9	71.9#

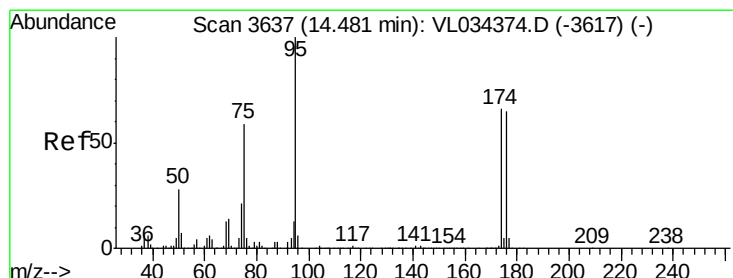
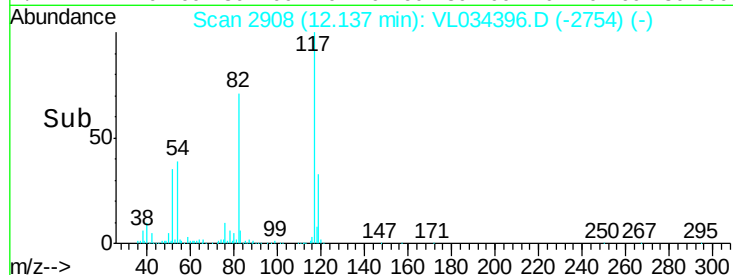
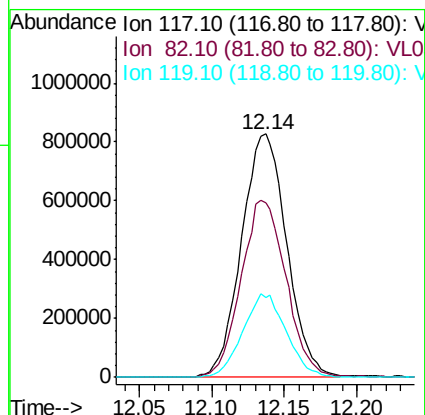
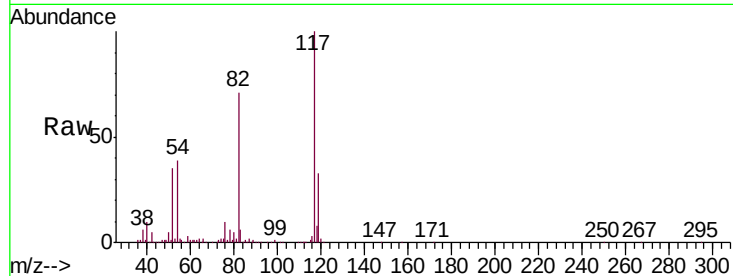




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 117 Resp: 1792282
Ion Ratio Lower Upper
117 100
82 72.9 57.5 86.3
119 33.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.253 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. -0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion: 95 Resp: 1545956
Ion Ratio Lower Upper
95 100
174 65.7 52.2 78.2
175 4.7 3.8 5.8

