

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033411.D
 Acq On : 21 Mar 2019 4:51
 Operator : SY/AP
 Sample : K1975-05DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Mar 21 12:42:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	831375	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1907335	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2576979	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1391281	7.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	72.90%

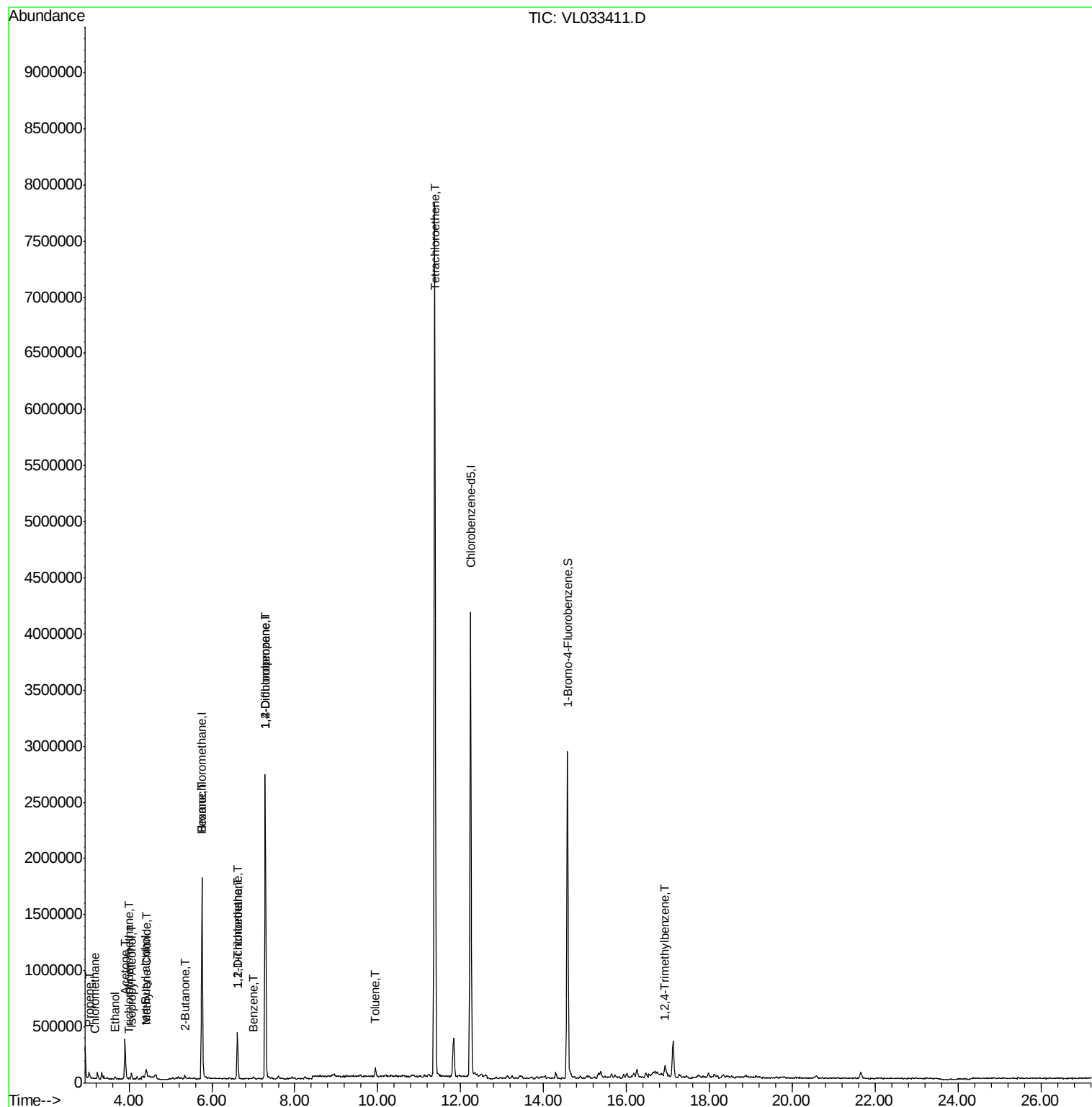
Target Compounds						Qvalue
4) Chloromethane	3.17	50	1904	0.037	ppbv	98
9) Propene	3.04	41	14971	0.351	ppbv	95
11) Trichlorofluoromethane	4.00	101	4990	0.034	ppbv	94
13) Ethanol	3.67	45	12424	0.612	ppbv	98
15) Acetone	3.90	43	371806	2.877	ppbv	99
17) tert-Butyl alcohol	4.40	59	5305	0.292	ppbv #	83
19) Isopropyl Alcohol	4.05	45	8540	0.139	ppbv #	95
20) Methylene Chloride	4.41	84	17859	0.424	ppbv	86
26) Hexane	5.77	57	6583	0.078	ppbv #	1
32) 1,1,1-Trichloroethane	6.62	97	243277	1.802	ppbv	97
34) 2-Butanone	5.34	43	32371	0.258	ppbv	96
36) Benzene	7.00	78	10568	0.062	ppbv #	87
37) 1,2-Dichloroethane	6.62	62	18705	0.173	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	501091	7.839	ppbv #	25
52) Tetrachloroethene	11.37	164	1933310	27.187	ppbv	99
53) Toluene	9.95	91	51561	0.266	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	18315	0.051	ppbv #	73

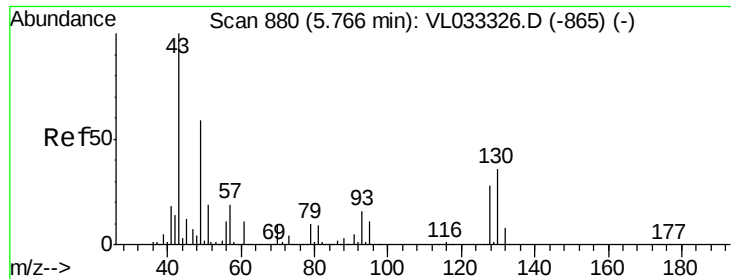
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033411.D
Acq On : 21 Mar 2019 4:51
Operator : SY/AP
Sample : K1975-05DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Mar 21 12:42:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033411.D

Acq: 21 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

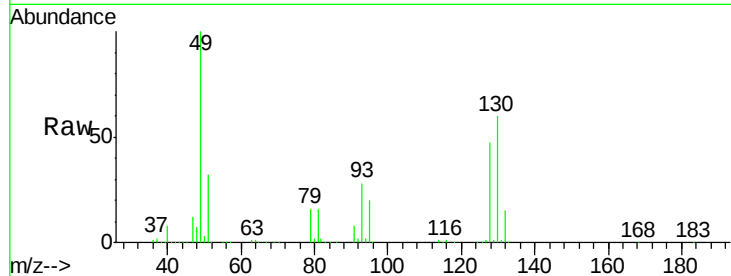
Tgt Ion: 49 Resp: 831375

Ion Ratio Lower Upper

49 100

128 47.4 23.5 70.6

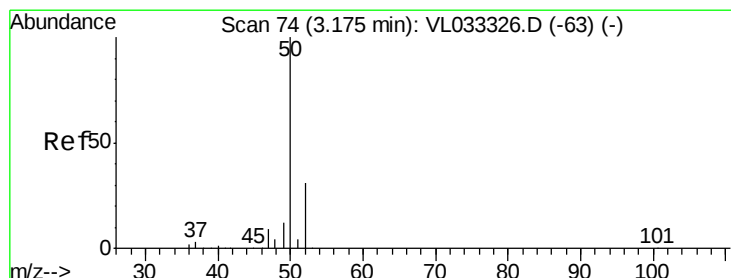
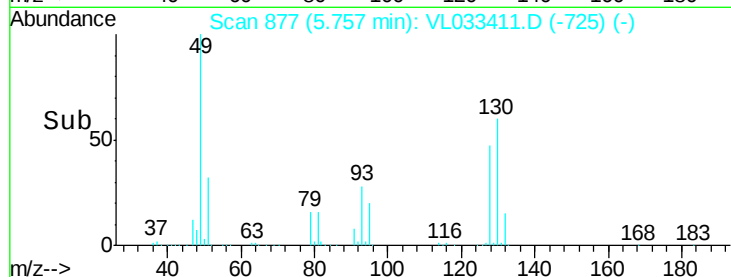
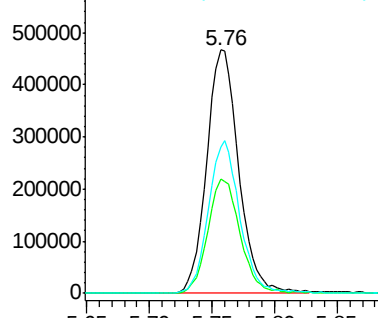
130 61.4 30.1 90.3



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



#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033411.D

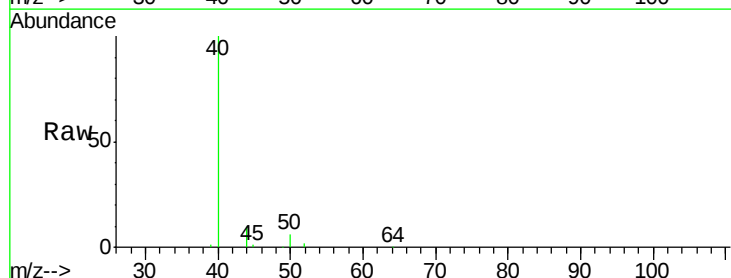
Acq: 21 Mar 2019 4:51

Tgt Ion: 50 Resp: 1904

Ion Ratio Lower Upper

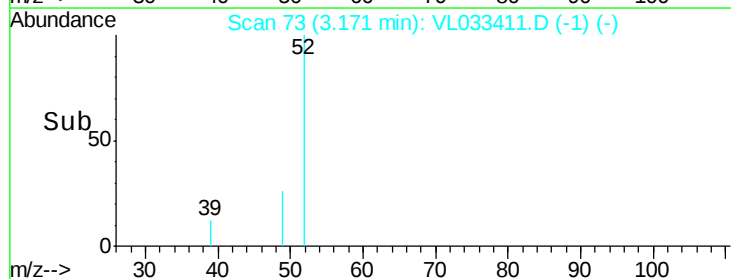
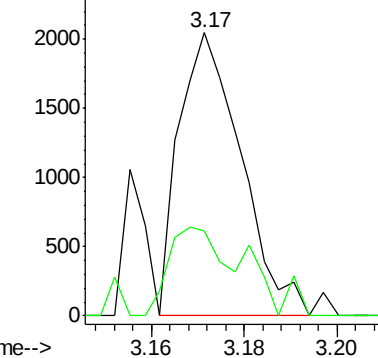
50 100

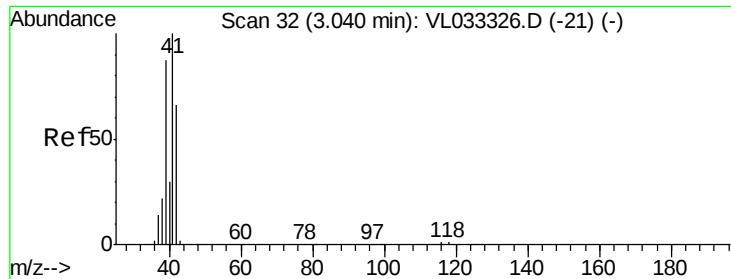
52 30.0 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.351 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033411.D

Acq: 21 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampled :

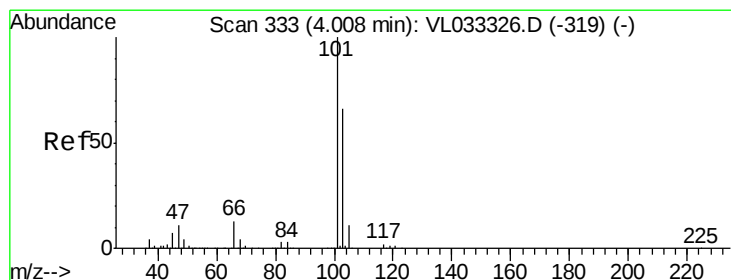
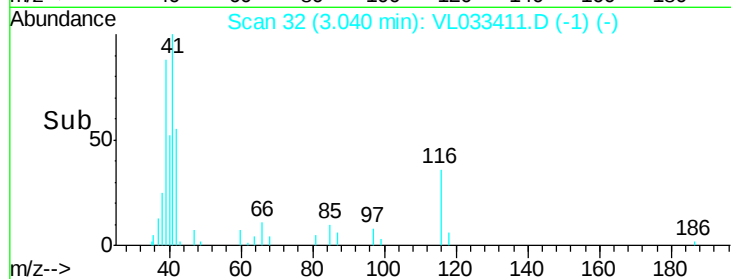
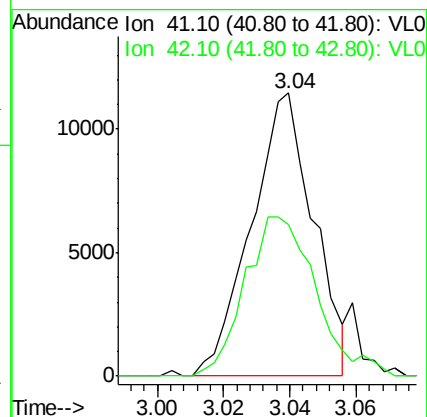
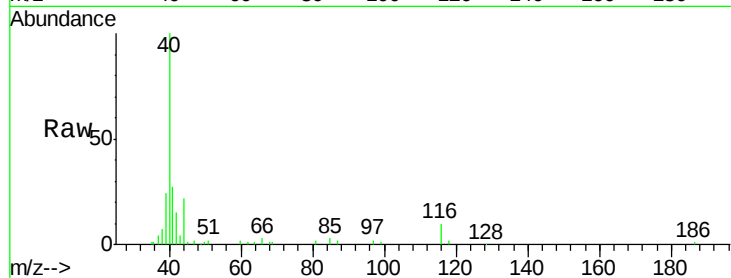
SV1DL

Tgt Ion: 41 Resp: 14971

Ion Ratio Lower Upper

41 100

42 64.6 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033411.D

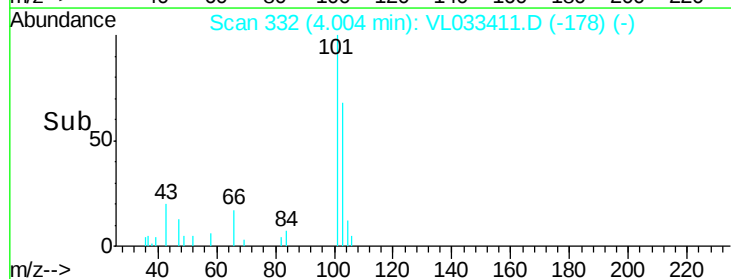
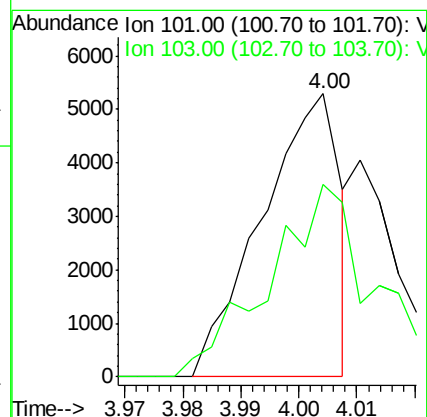
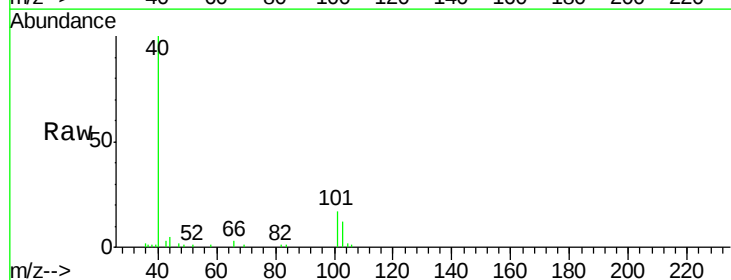
Acq: 21 Mar 2019 4:51

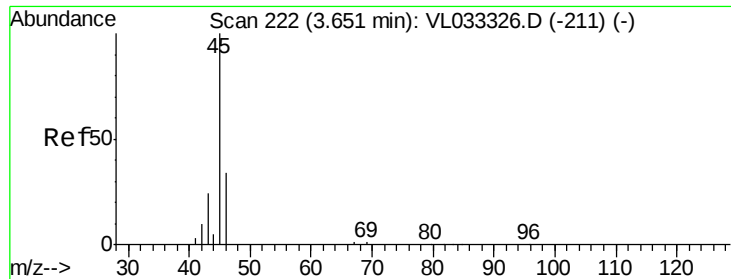
Tgt Ion: 101 Resp: 4990

Ion Ratio Lower Upper

101 100

103 61.6 52.9 79.3

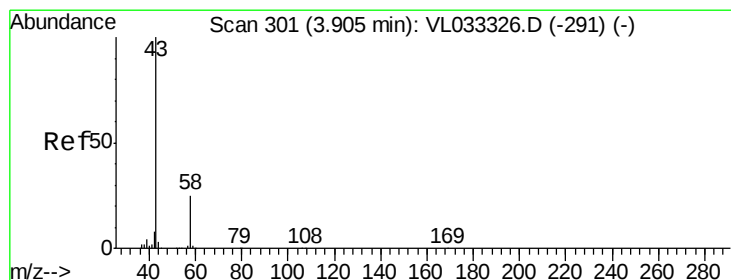
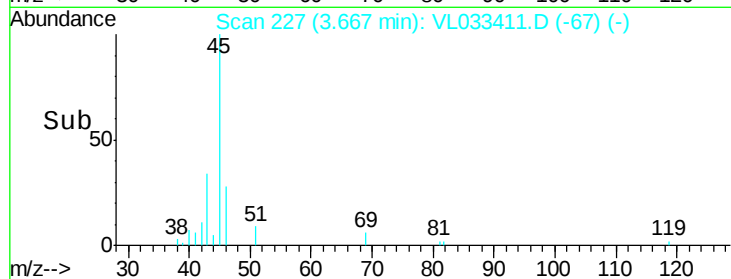
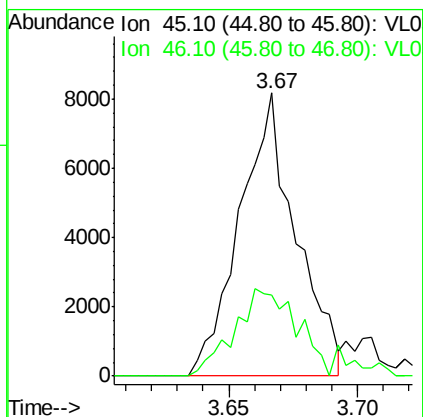
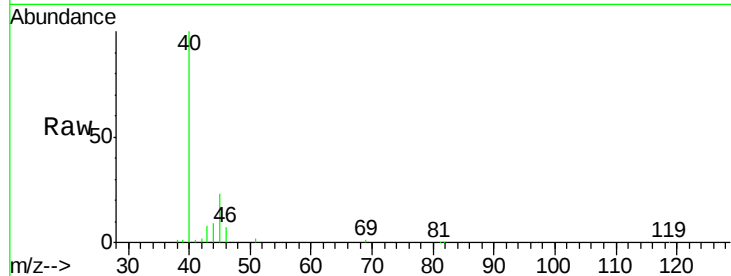




#13
Ethanol
Concen: 0.612 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.02 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

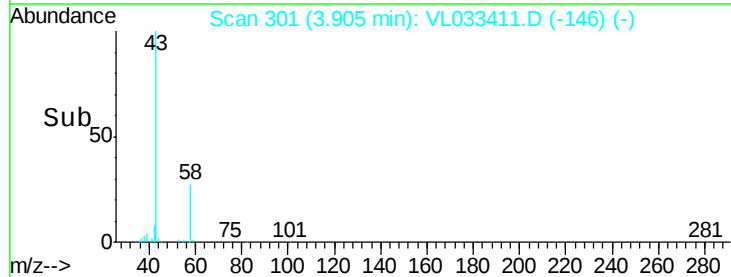
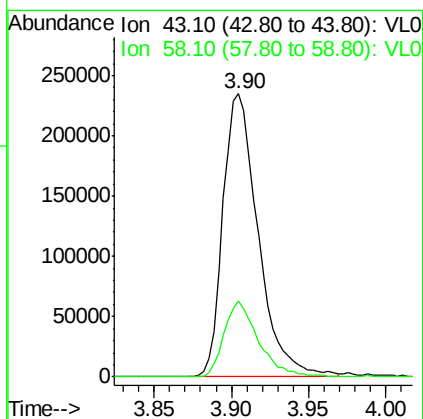
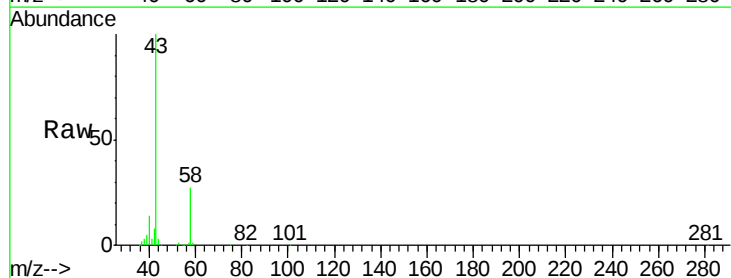
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

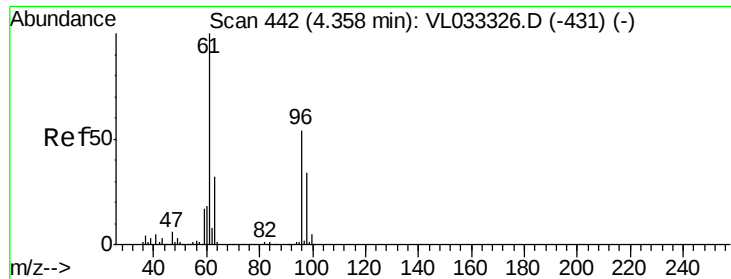
Tgt Ion: 45 Resp: 12424
Ion Ratio Lower Upper
45 100
46 38.5 14.9 59.7



#15
Acetone
Concen: 2.877 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Tgt Ion: 43 Resp: 371806
Ion Ratio Lower Upper
43 100
58 26.0 20.4 30.6



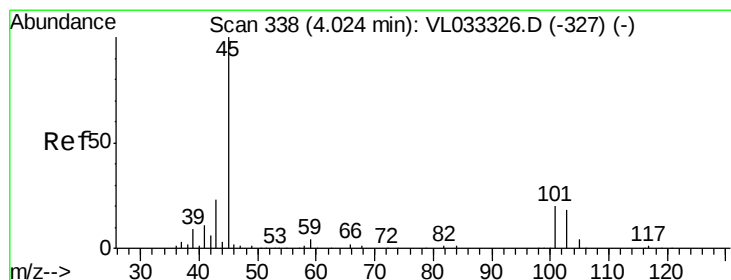
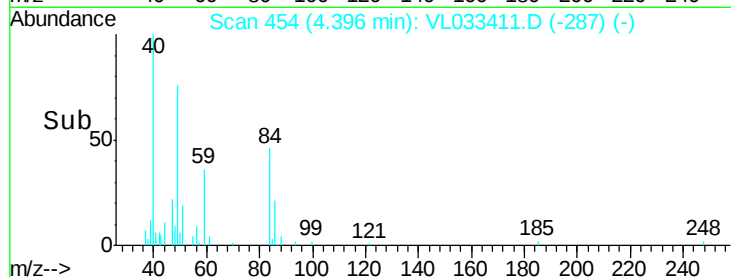
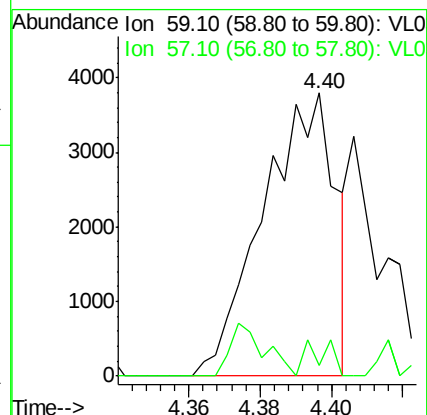
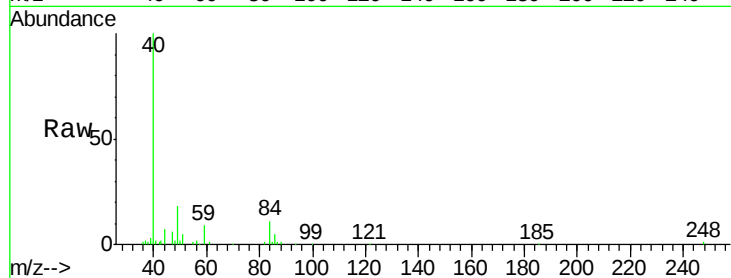


#17

tert-Butyl alcohol
Concen: 0.292 ppbv
RT: 4.40 min Scan# 454
Delta R.T. 0.04 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Instrument :
MSVOA_L
ClientSampled :
SV1DL

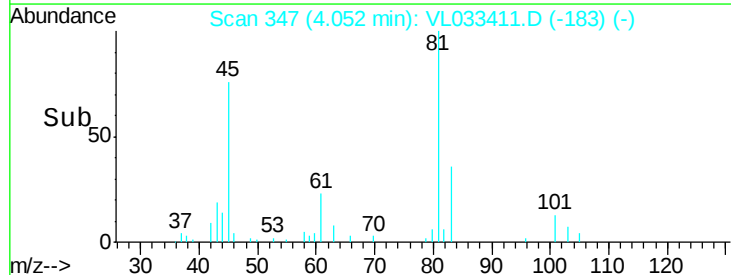
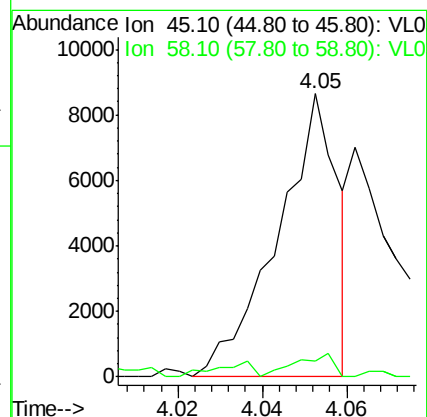
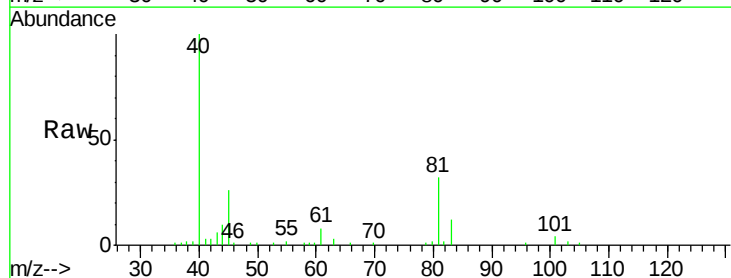
Tgt Ion: 59 Resp: 5305
Ion Ratio Lower Upper
59 100
57 15.9 7.7 11.5#

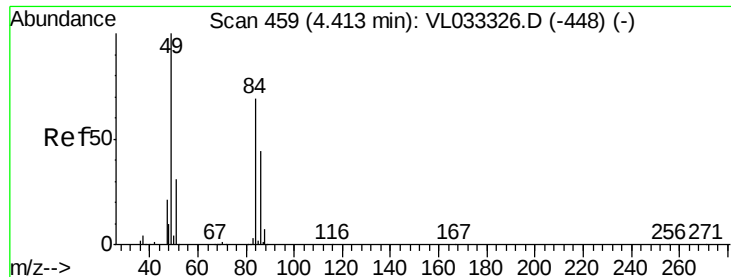


#19

Isopropyl Alcohol
Concen: 0.139 ppbv
RT: 4.05 min Scan# 347
Delta R.T. 0.03 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Tgt Ion: 45 Resp: 8540
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#

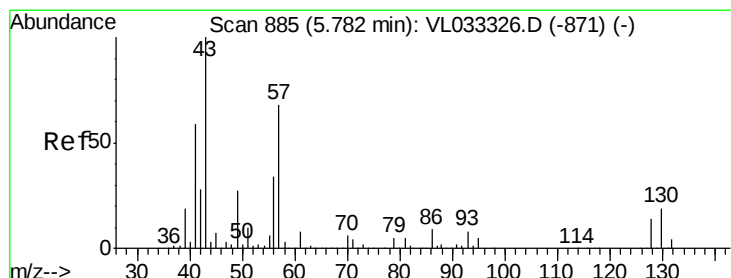
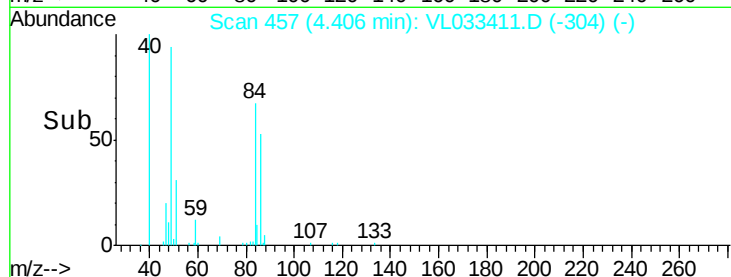
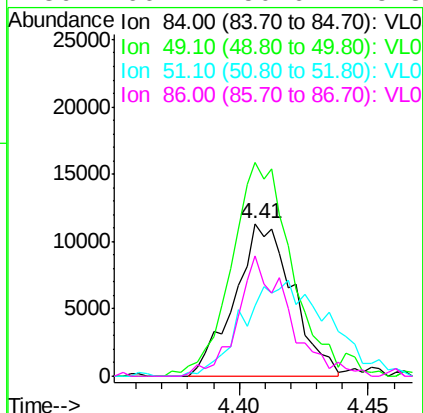
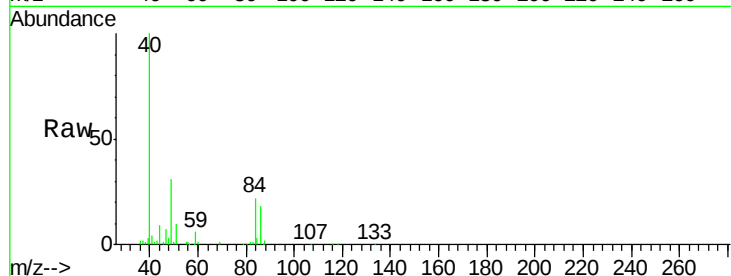




#20
Methylene Chloride
Concen: 0.424 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

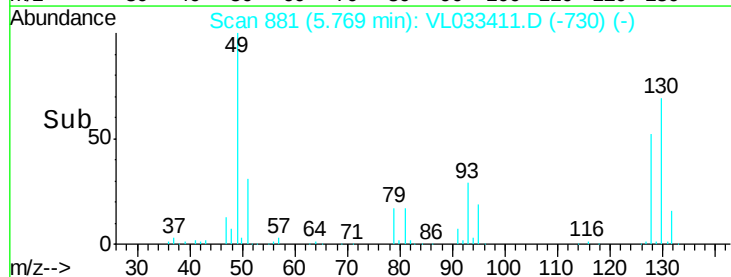
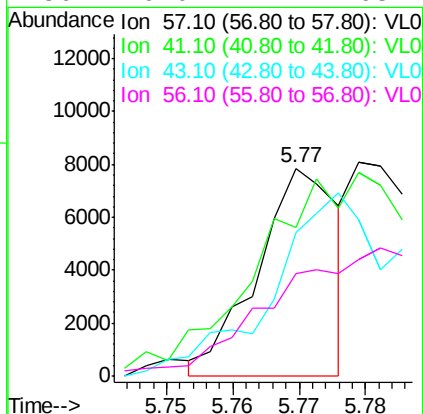
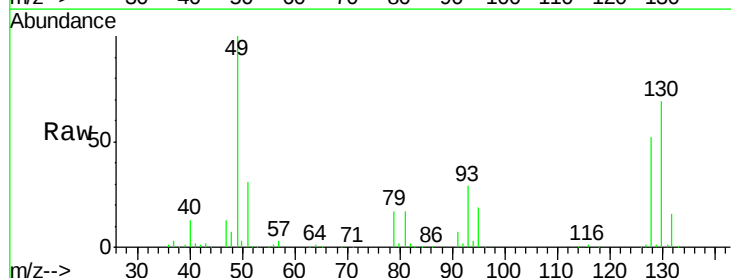
Instrument :
MSVOA_L
ClientSampleID :
SV1DL

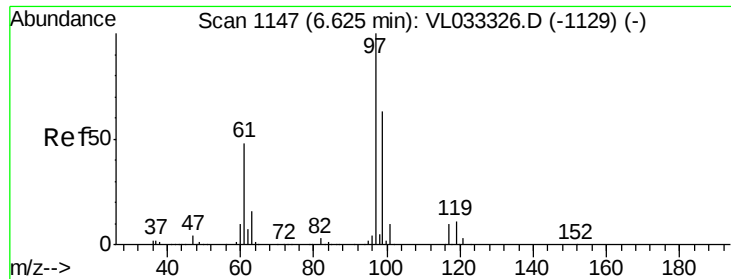
Tgt Ion:	84	Resp:	17859
Ion	Ratio	Lower	Upper
84	100		
49	120.6	115.4	173.0
51	37.7	35.8	53.6
86	66.7	50.6	75.8



#26
Hexane
Concen: 0.078 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Tgt Ion:	57	Resp:	6583
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.5	105.7#
43	0.0	181.8	272.8#
56	0.0	42.2	63.2#

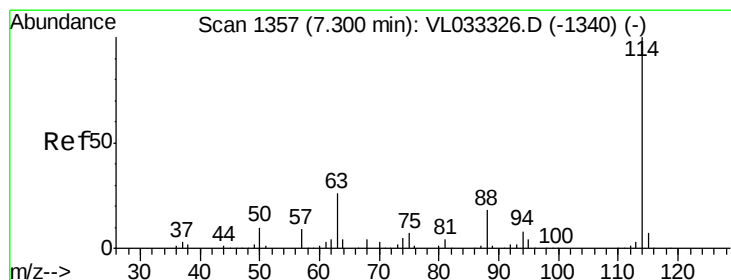
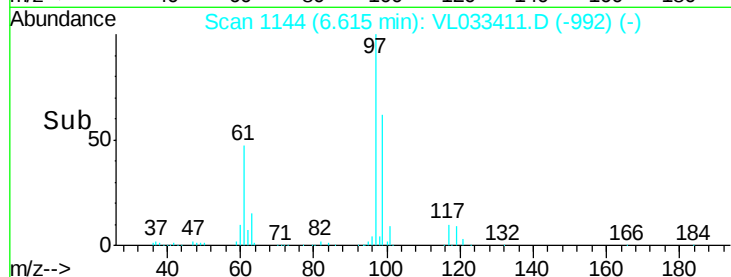
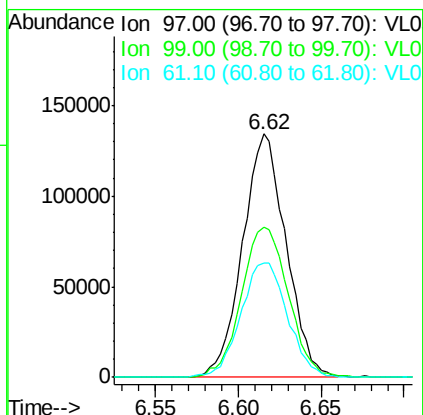
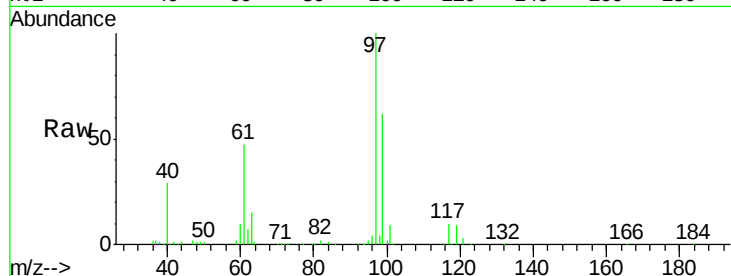




#32
 1,1,1-Trichloroethane
 Concen: 1.802 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

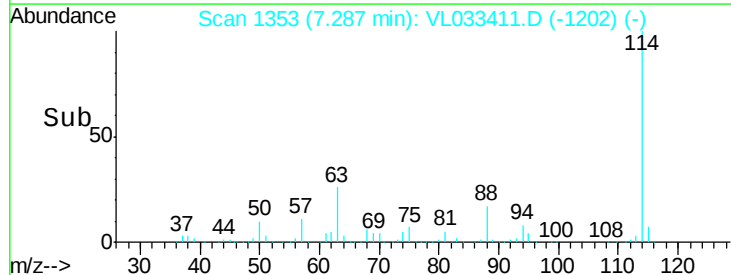
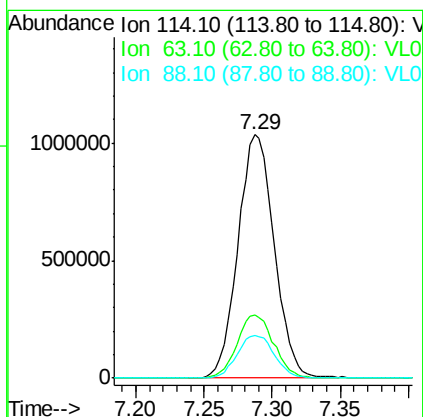
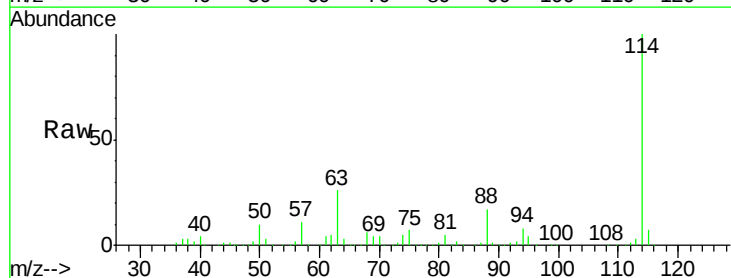
Instrument :
 MSVOA_L
 ClientSampleID :
 SV1DL

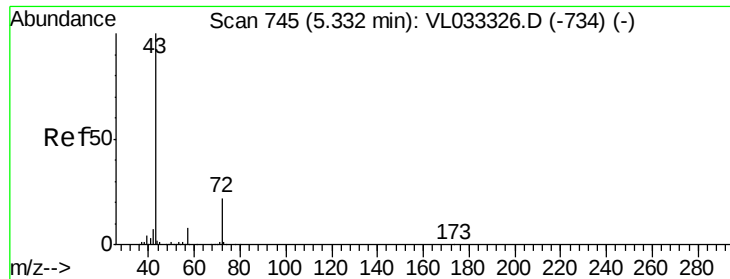
Tgt Ion: 97 Resp: 243277
 Ion Ratio Lower Upper
 97 100
 99 66.8 51.0 76.6
 61 50.8 39.3 58.9



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

Tgt Ion: 114 Resp: 1907335
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.4 32.2
 88 18.2 14.5 21.7

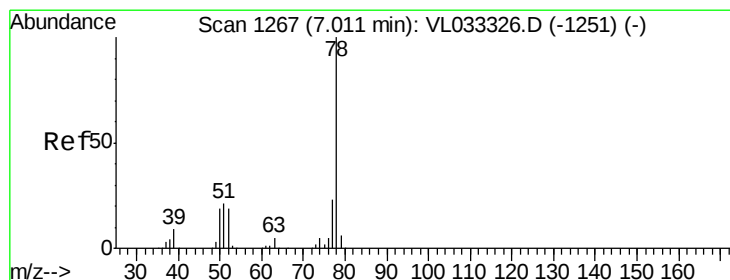
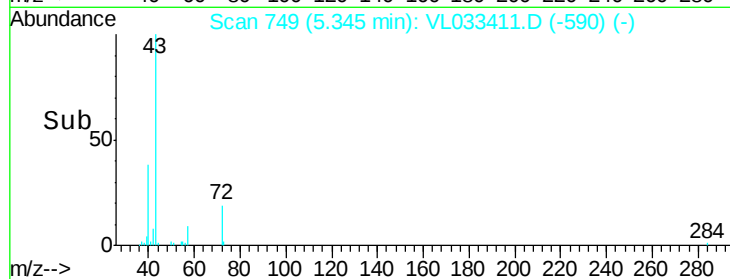
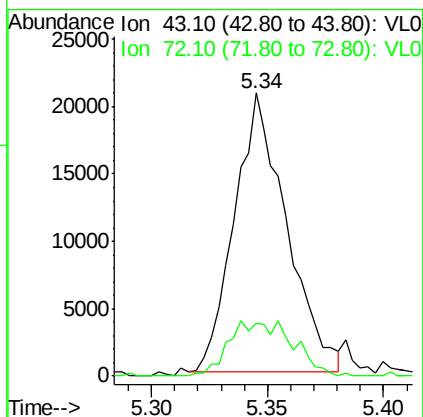
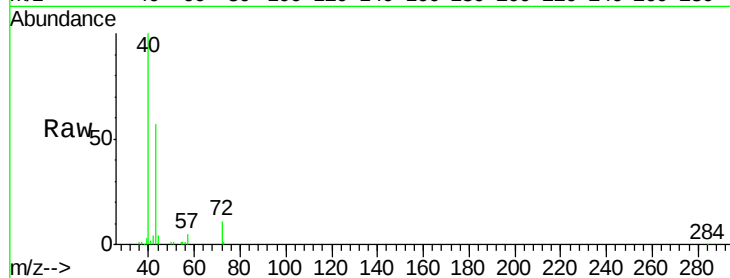




#34
 2-Butanone
 Concen: 0.258 ppbv
 RT: 5.34 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

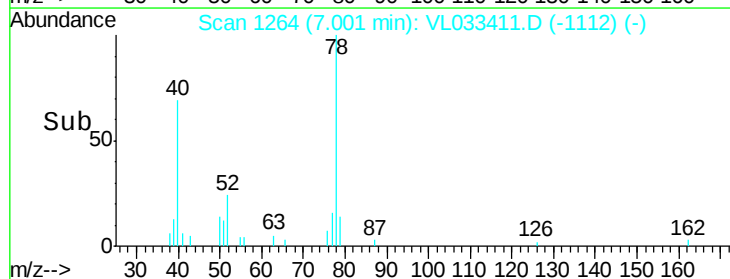
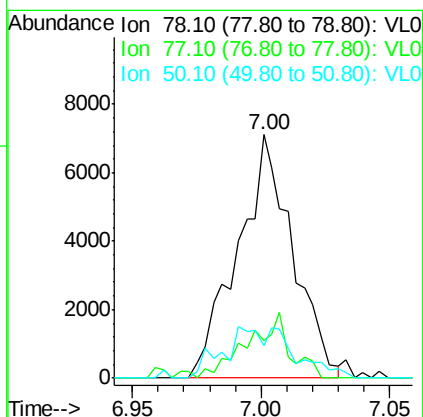
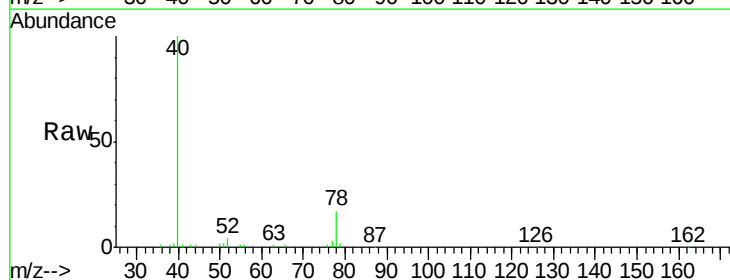
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

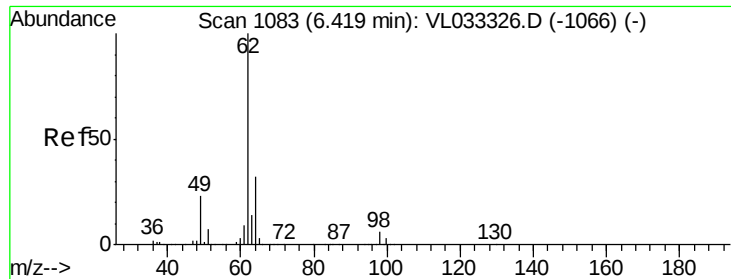
Tgt Ion: 43 Resp: 32371
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.7 26.5



#36
 Benzene
 Concen: 0.062 ppbv
 RT: 7.00 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

Tgt Ion: 78 Resp: 10568
 Ion Ratio Lower Upper
 78 100
 77 13.8 18.1 27.1#
 50 22.4 15.2 22.8

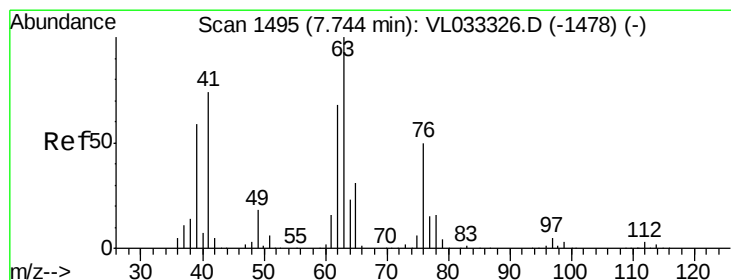
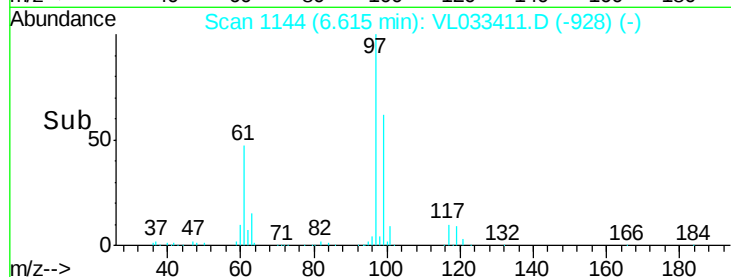
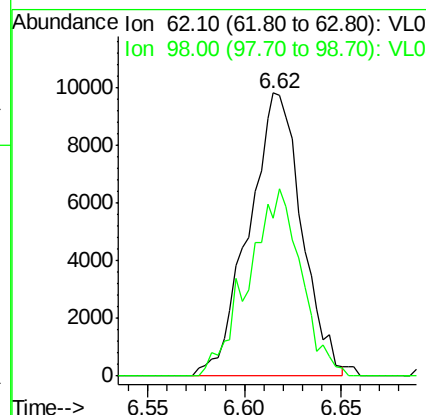
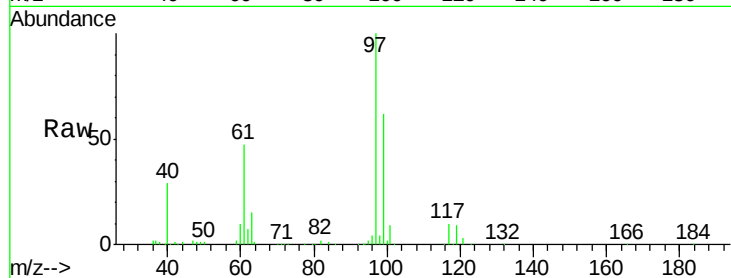




#37
 1,2-Dichloroethane
 Concen: 0.173 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.20 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

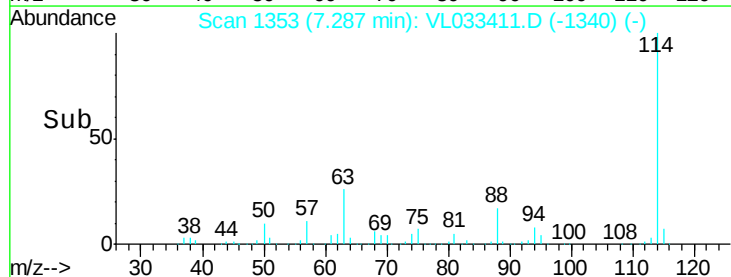
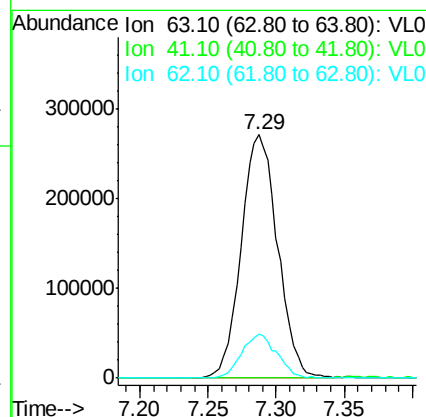
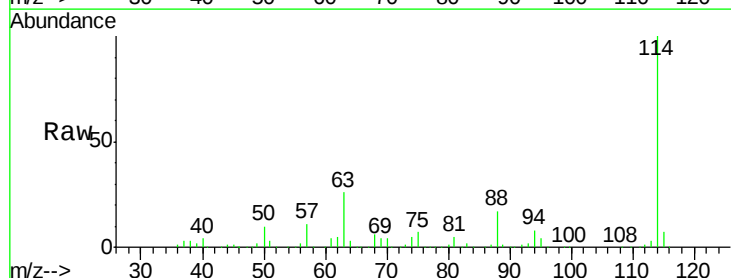
Instrument :
 MSVOA_L
 ClientSampleID :
 SV1DL

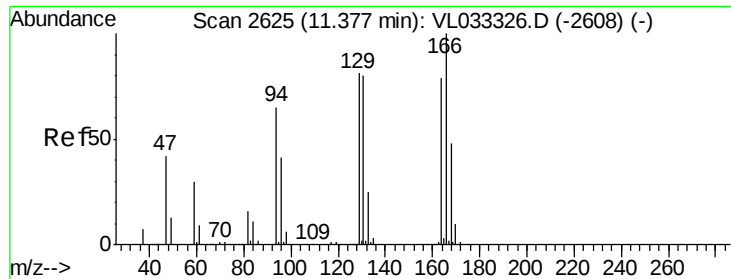
Tgt Ion: 62 Resp: 18705
 Ion Ratio Lower Upper
 62 100
 98 65.7 4.5 6.7#



#39
 1,2-Dichloropropane
 Concen: 7.839 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

Tgt Ion: 63 Resp: 501091
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 18.2 54.7 82.1#

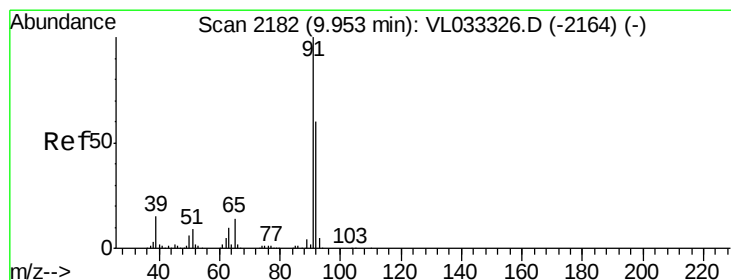
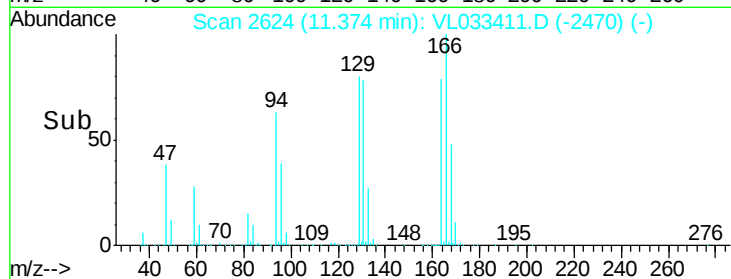
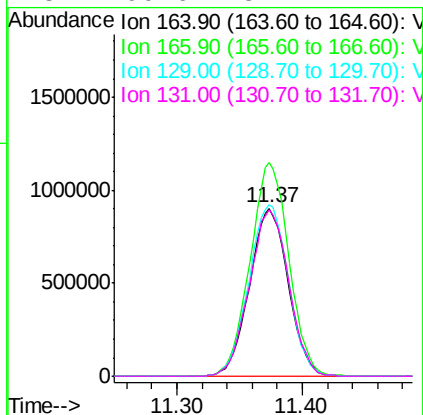
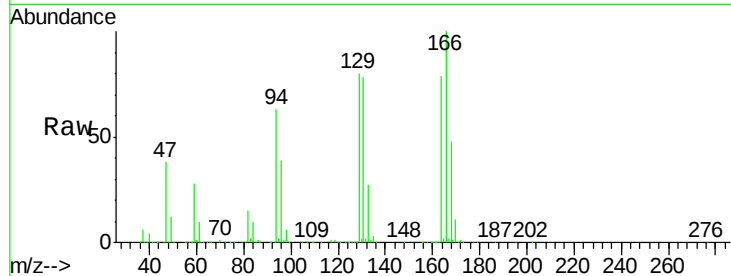




#52
Tetrachloroethene
Concen: 27.187 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

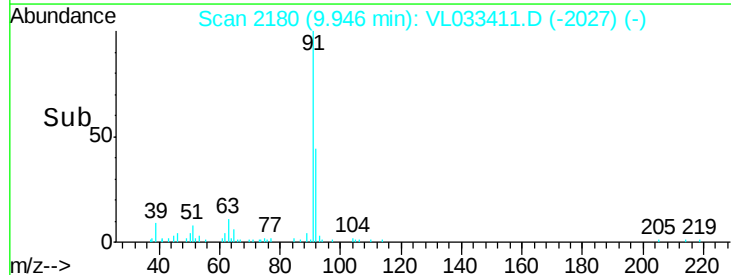
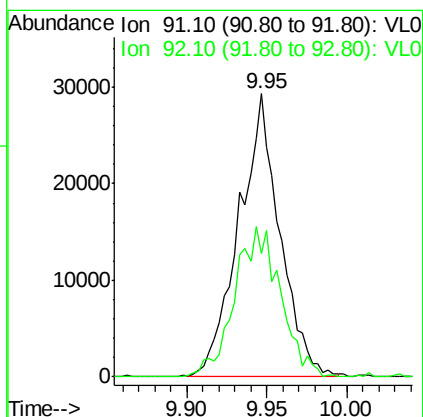
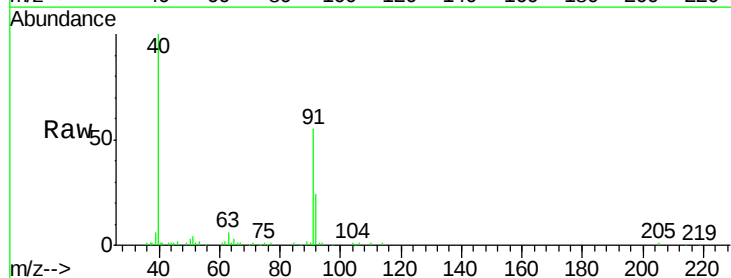
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

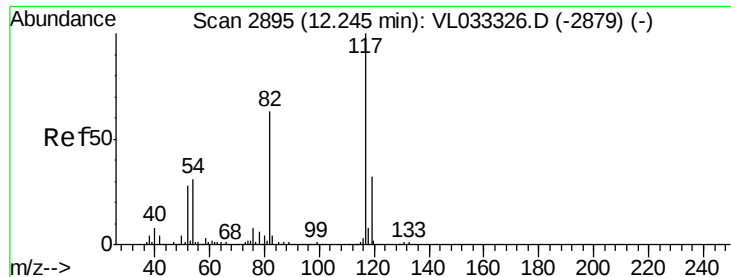
Tgt Ion:164 Resp: 1933310
Ion Ratio Lower Upper
164 100
166 127.4 101.5 152.3
129 102.1 82.2 123.2
131 99.6 81.1 121.7



#53
Toluene
Concen: 0.266 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Tgt Ion: 91 Resp: 51561
Ion Ratio Lower Upper
91 100
92 59.0 47.4 71.0

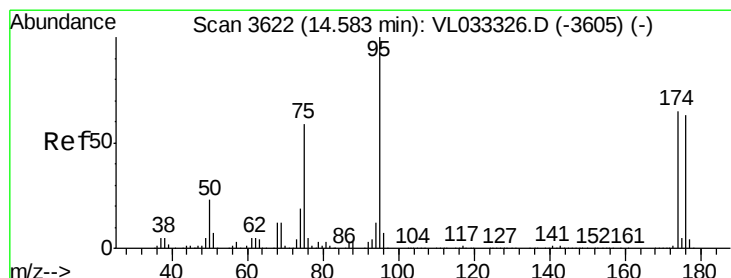
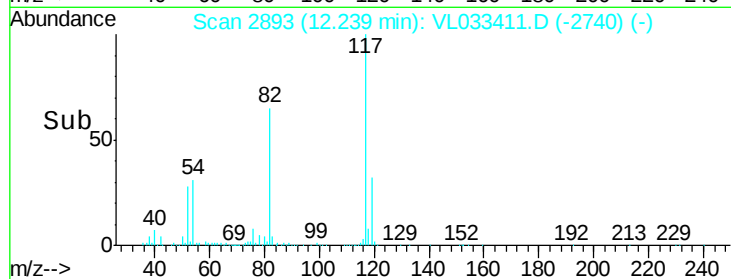
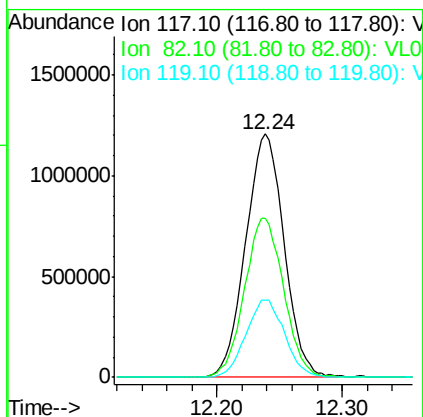
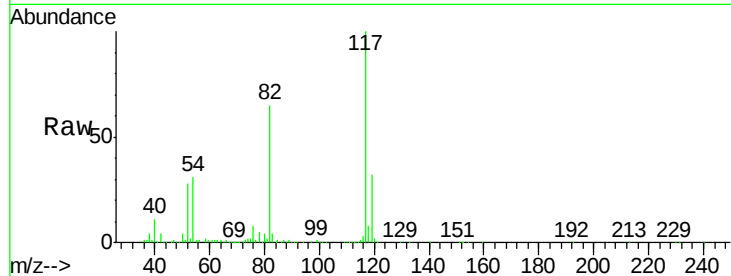




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

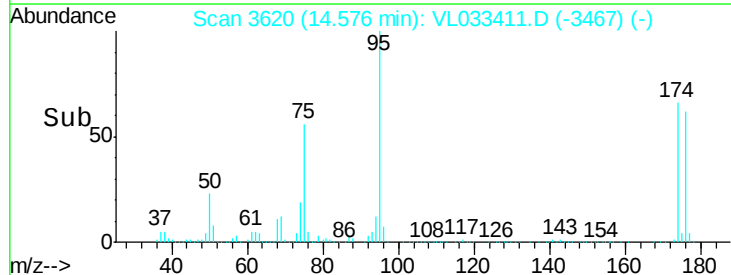
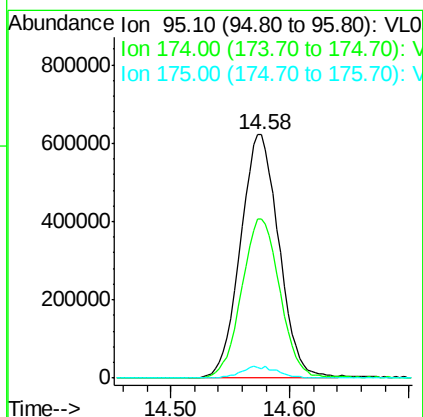
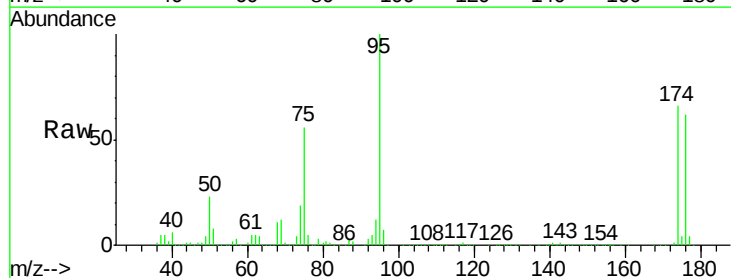
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

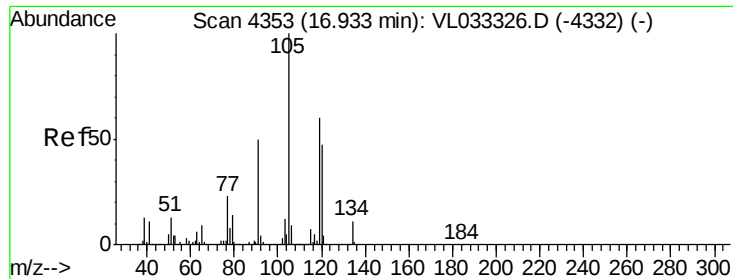
Tgt Ion:117 Resp: 2576979
Ion Ratio Lower Upper
117 100
82 66.6 53.4 80.2
119 32.2 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 7.286 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033411.D
Acq: 21 Mar 2019 4:51

Tgt Ion: 95 Resp: 1391281
Ion Ratio Lower Upper
95 100
174 65.1 51.5 77.3
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.051 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033411.D
 Acq: 21 Mar 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion:	105	Resp:	18315
Ion Ratio	Lower	Upper	
105	100		
120	47.7	37.4	56.2
91	11.0	41.0	61.4#
77	16.7	18.5	27.7#

