

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034410.D
 Acq On : 25 Nov 2019 17:40
 Operator : SY/AP
 Sample : K5971-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:44:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	928018	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1854364	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1804344	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1514395	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

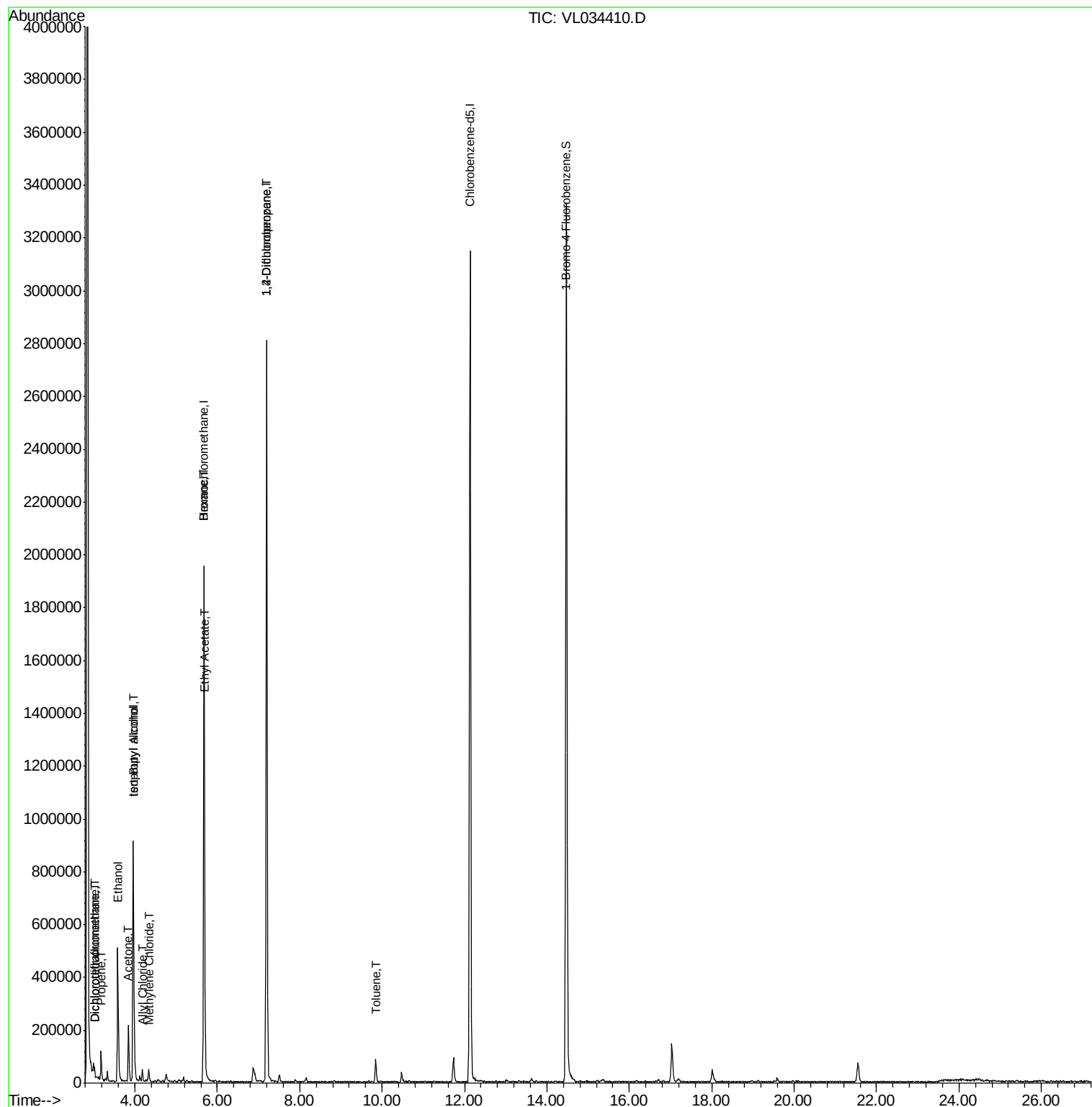
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	17295	0.103	ppbv #	87
8) Dichlorotetrafluoroethane	3.02	85	17295	0.115	ppbv #	21
9) Propene	3.18	41	26690	0.519	ppbv	98
13) Ethanol	3.58	45	477326	33.334	ppbv	97
15) Acetone	3.84	43	193278	1.454	ppbv	99
17) tert-Butyl alcohol	3.96	59	37573	0.336	ppbv	99
19) Isopropyl Alcohol	3.96	45	1045556	12.275	ppbv	100
20) Methylene Chloride	4.33	84	4993	0.106	ppbv	93
21) Allyl Chloride	4.18	41	2772	0.035	ppbv #	18
25) Ethyl Acetate	5.70	43	25349	0.107	ppbv #	92
26) Hexane	5.69	57	8256	0.081	ppbv #	1
39) 1,2-Dichloropropane	7.20	63	538700	7.543	ppbv #	23
53) Toluene	9.84	91	55949	0.266	ppbv	96

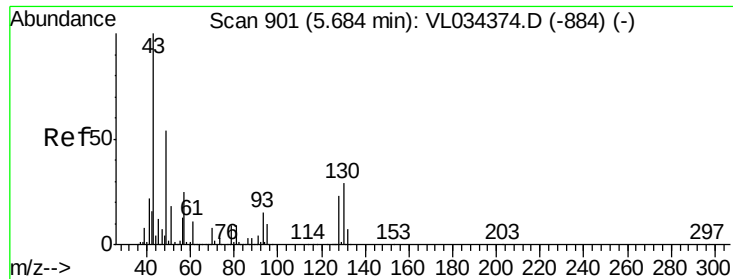
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

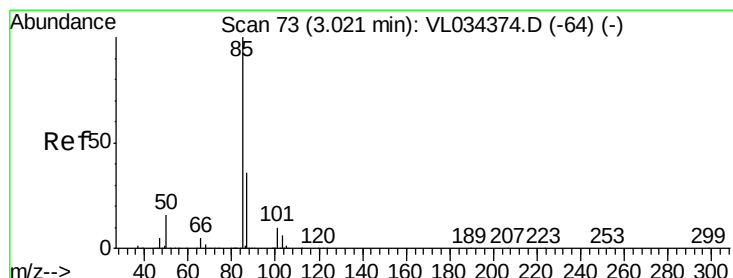
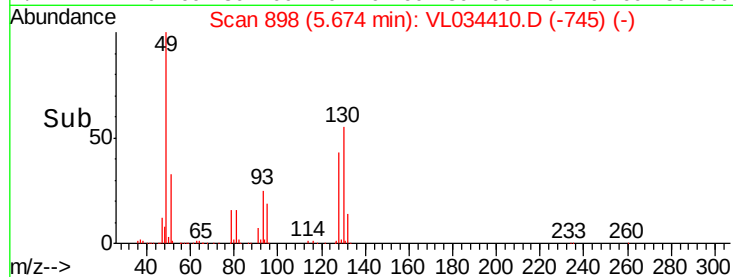
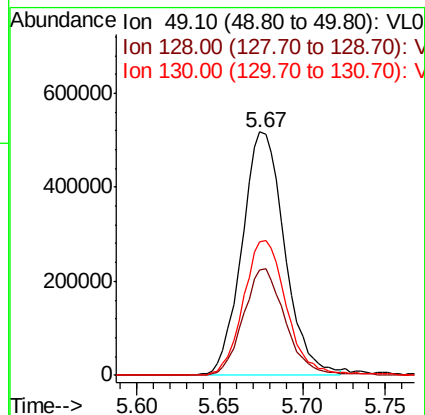
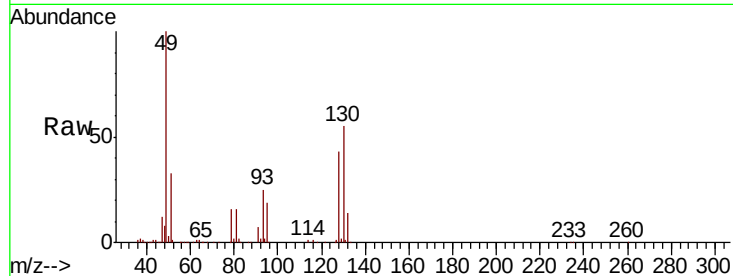
Delta R.T. -0.01 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	49	Resp:	928018
Ion	Ratio	Lower	Upper
49	100		
128	43.2	21.8	65.3
130	56.3	28.0	84.0



#2

Dichlorodifluoromethane

Concen: 0.103 ppbv

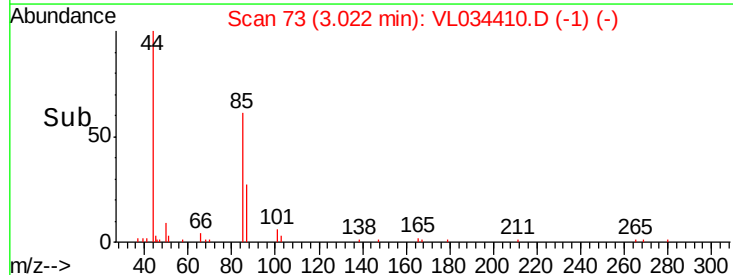
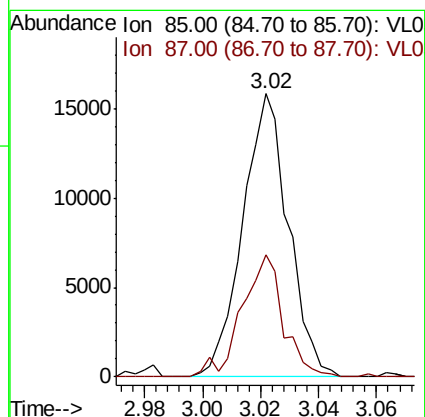
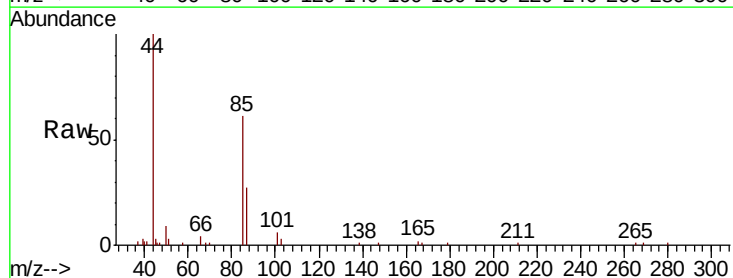
RT: 3.02 min Scan# 73

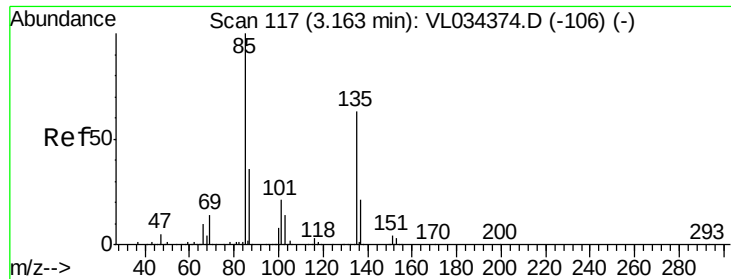
Delta R.T. 0.00 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

Tgt Ion:	85	Resp:	17295
Ion	Ratio	Lower	Upper
85	100		
87	43.2	28.5	42.7#

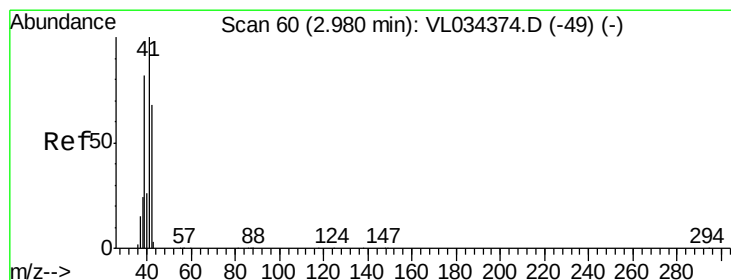
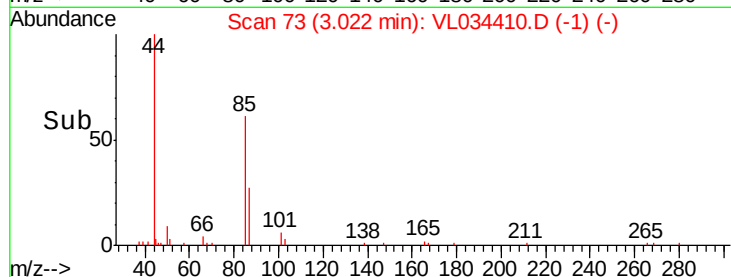
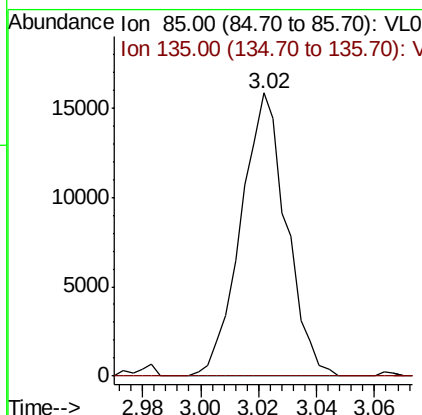
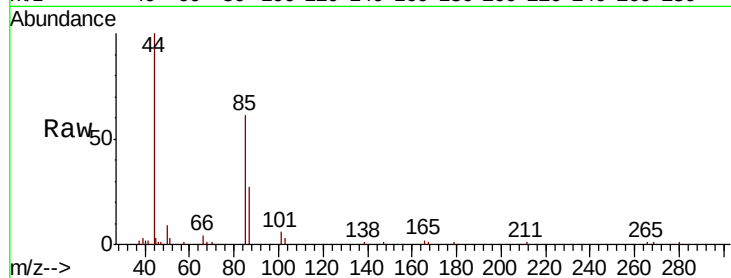




#8
 Dichlorotetrafluoroethane
 Concen: 0.115 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. -0.14 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

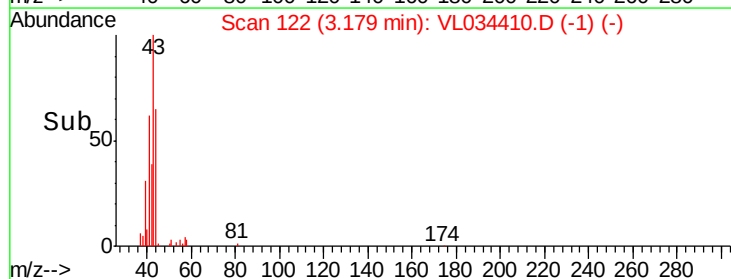
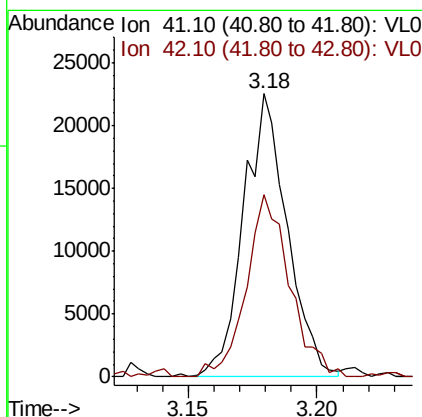
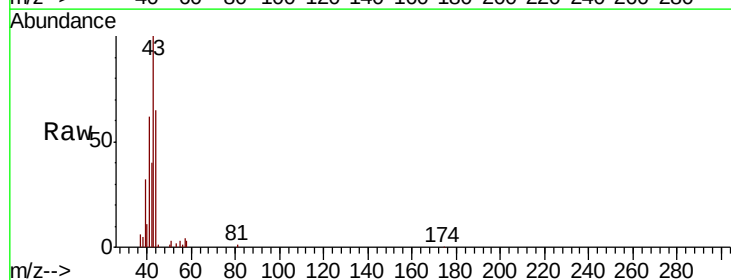
Instrument :
 MSVOA_L
 ClientSampleId :

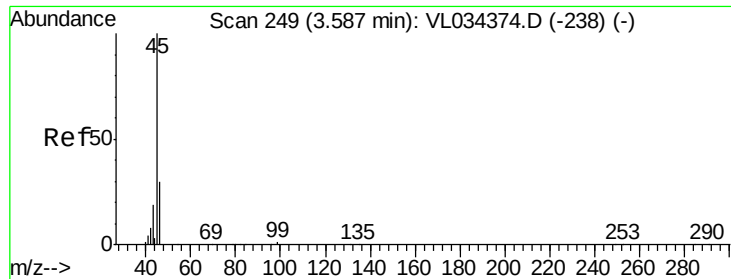
Tot Ion: 85 Resp: 17295
 Ion Ratio Lower Upper
 85 100
 135 2.4 51.1 76.7#



#9
 Propene
 Concen: 0.519 ppbv
 RT: 3.18 min Scan# 122
 Delta R.T. 0.20 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

Tgt Ion: 41 Resp: 26690
 Ion Ratio Lower Upper
 41 100
 42 66.9 54.6 82.0





#13

Ethanol

Concen: 33.334 ppbv

RT: 3.58 min Scan# 248

Delta R.T. -0.00 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

Instrument :

MSVOA_L

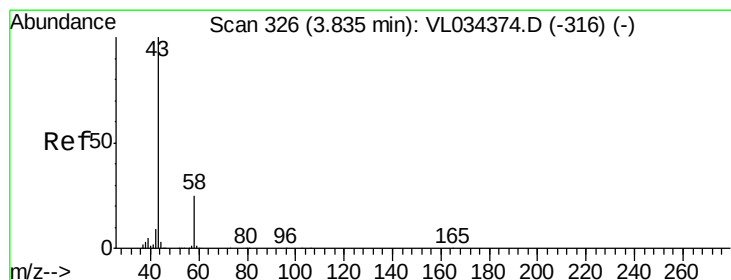
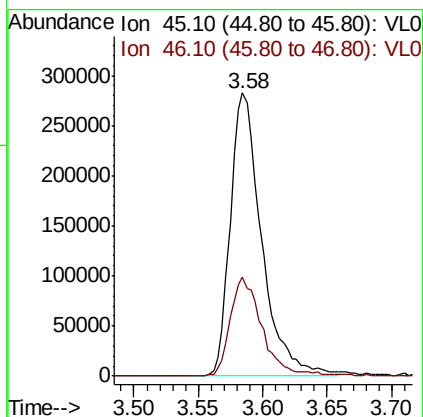
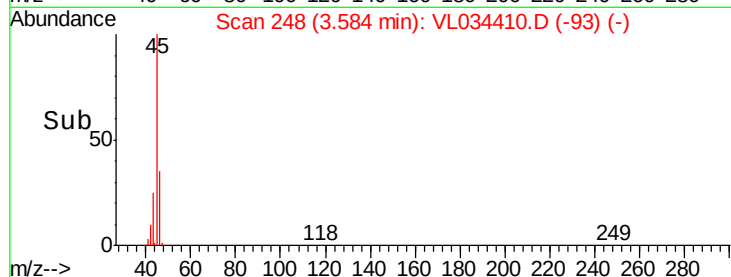
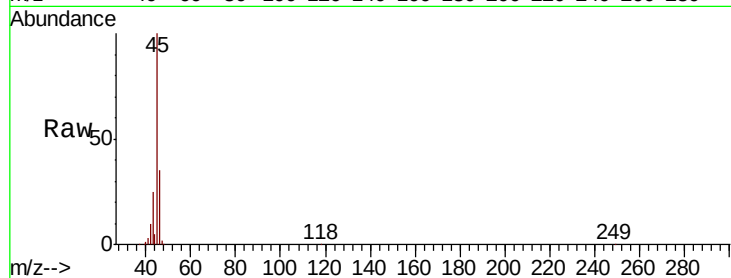
ClientSampleId :

Tot Ion: 45 Resp: 477326

Ion Ratio Lower Upper

45 100

46 36.3 13.8 55.4



#15

Acetone

Concen: 1.454 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034410.D

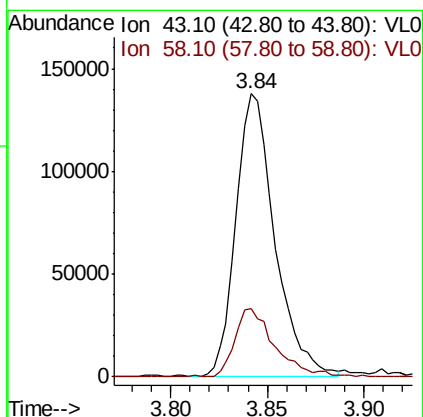
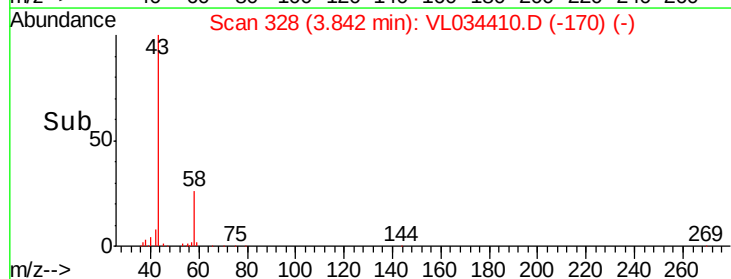
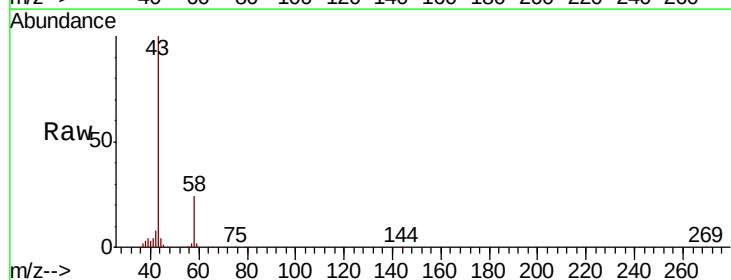
Acq: 25 Nov 2019 17:40

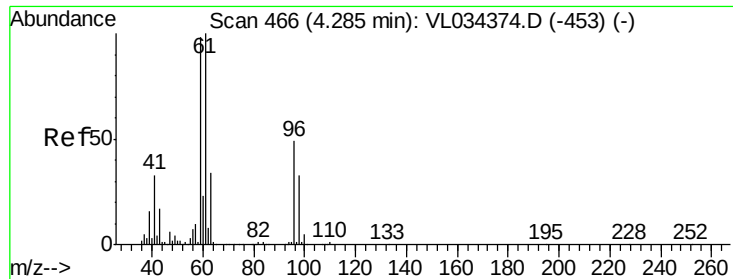
Tgt Ion: 43 Resp: 193278

Ion Ratio Lower Upper

43 100

58 24.9 20.2 30.4



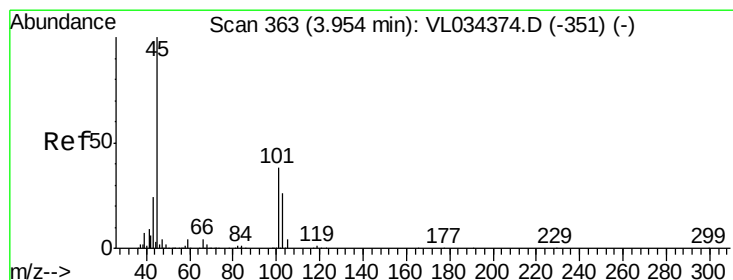
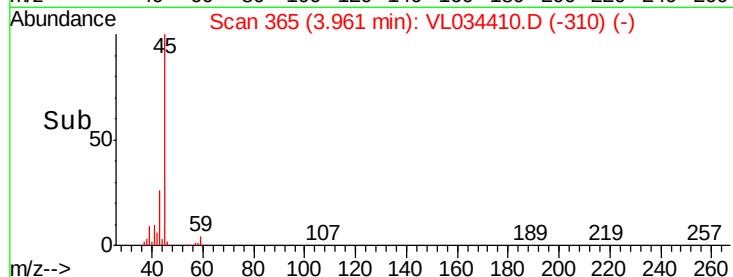
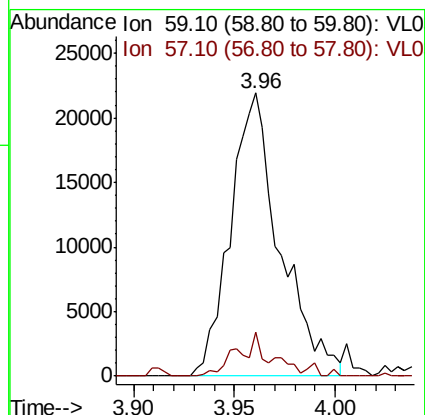
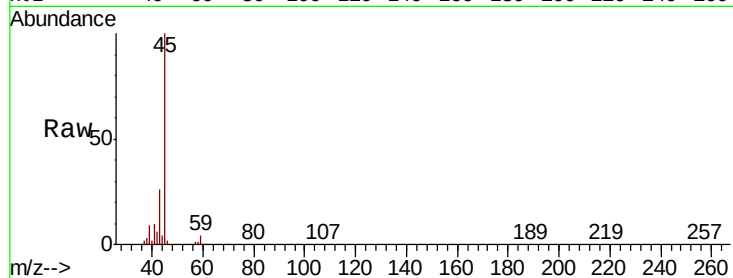


#17

tert-Butyl alcohol
 Concen: 0.336 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.32 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

Instrument :
 MSVOA_L
 ClientSampleId :

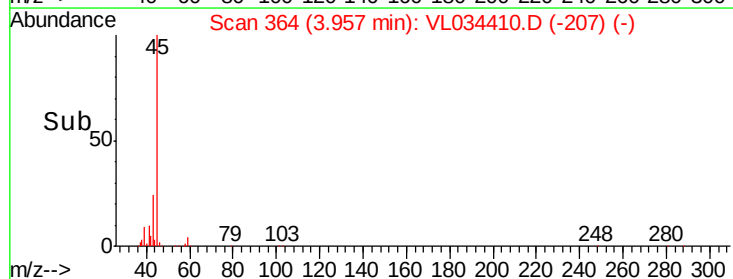
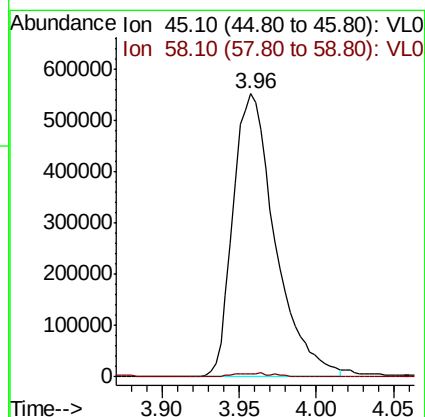
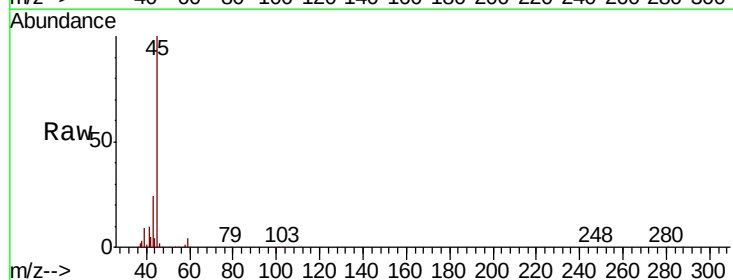
Tot Ion: 59 Resp: 37573
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.8 13.2

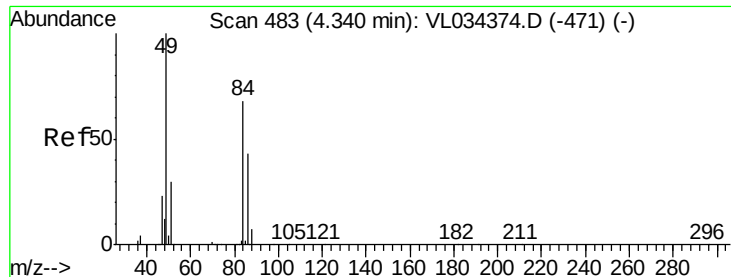


#19

Isopropyl Alcohol
 Concen: 12.275 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

Tgt Ion: 45 Resp: 1045556
 Ion Ratio Lower Upper
 45 100
 58 1.5 1.3 1.9

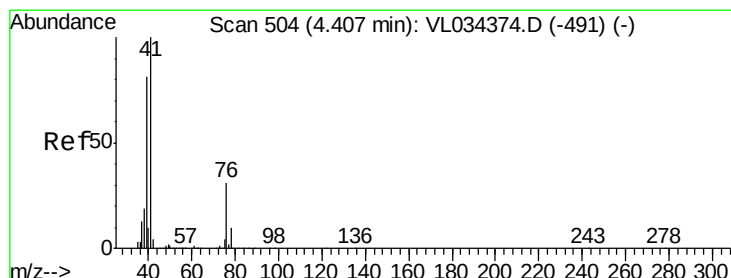
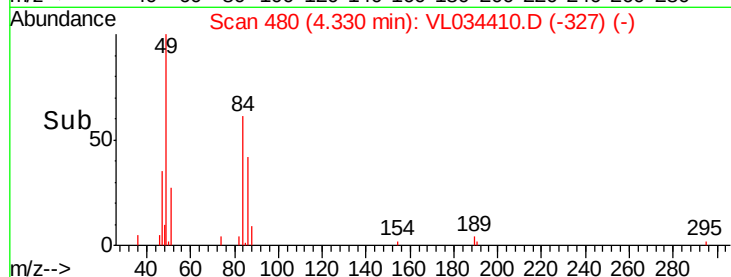
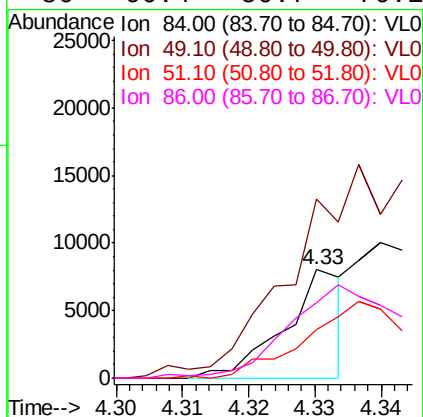
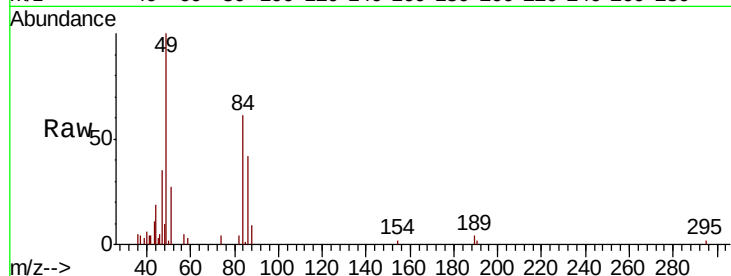




#20
Methvlene Chloride
Concen: 0.106 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL034410.D
Acq: 25 Nov 2019 17:40

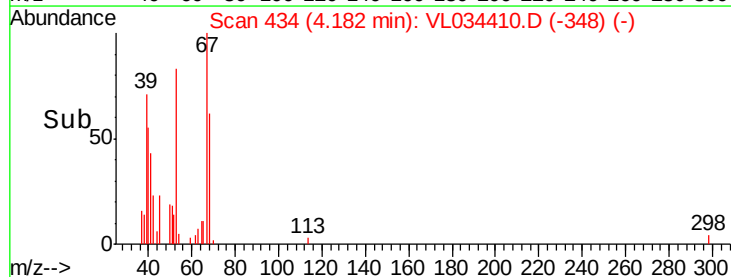
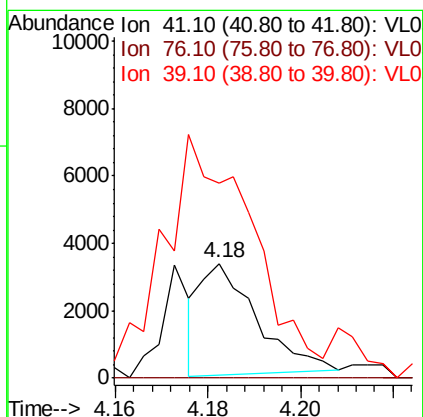
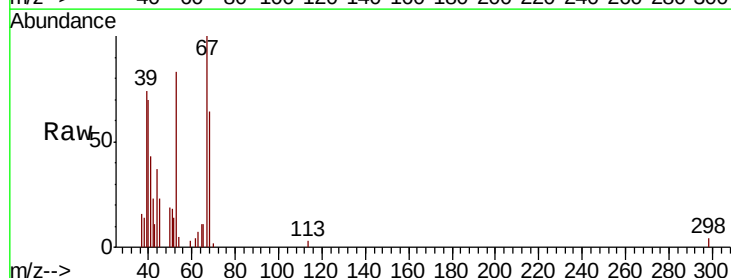
Instrument :
MSVOA_L
ClientSampleId :

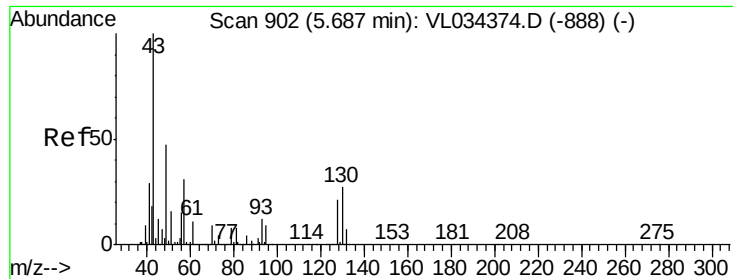
Tot Ion:	84	Resp:	4993
Ion	Ratio	Lower	Upper
84	100		
49	157.3	116.8	175.2
51	42.5	35.6	53.4
86	66.4	50.7	76.1



#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 4.18 min Scan# 434
Delta R.T. -0.22 min
Lab File: VL034410.D
Acq: 25 Nov 2019 17:40

Tgt Ion:	41	Resp:	2772
Ion	Ratio	Lower	Upper
41	100		
76	1.3	24.2	36.2#
39	0.0	66.9	100.3#

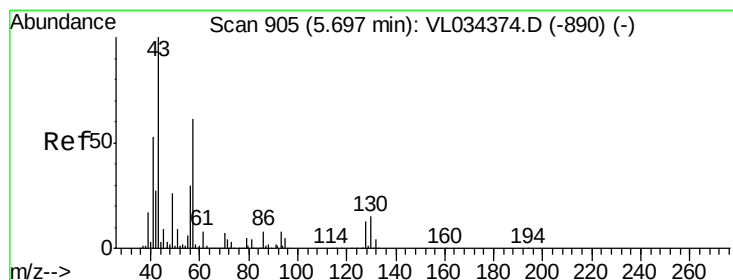
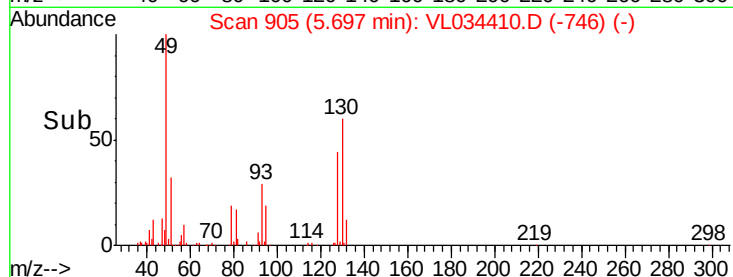
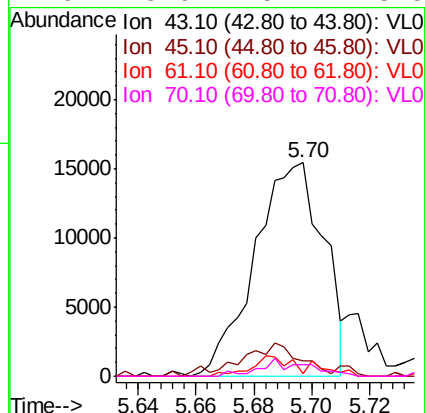
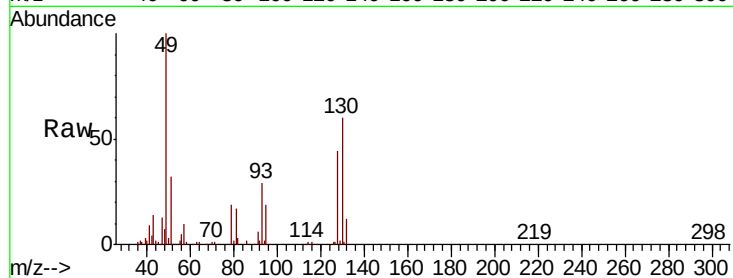




#25
Ethyl Acetate
Concen: 0.107 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL034410.D
Acq: 25 Nov 2019 17:40

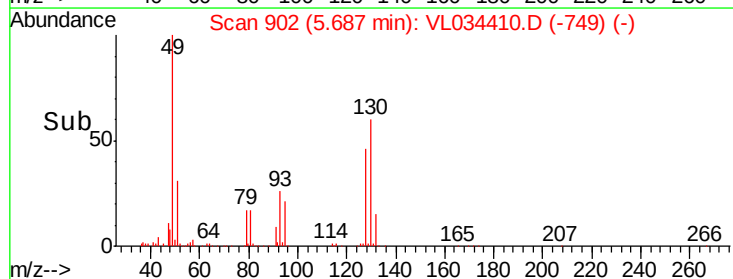
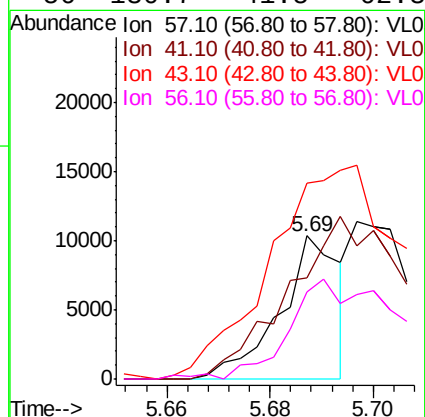
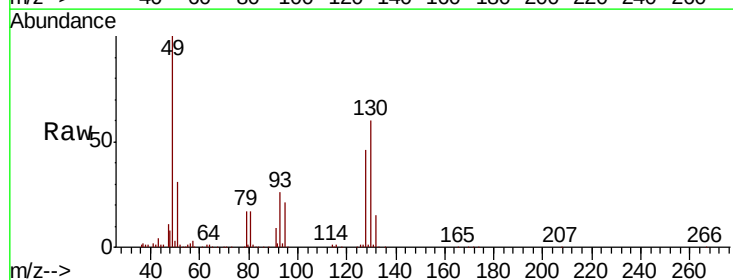
Instrument :
MSVOA_L
ClientSampled :

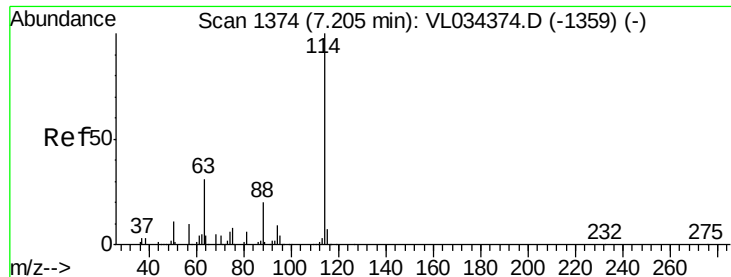
Tot Ion:	43	Resp:	25349
Ion	Ratio	Lower	Upper
43	100		
45	15.3	8.2	12.4#
61	7.5	7.5	11.3#
70	5.6	5.7	8.5#



#26
Hexane
Concen: 0.081 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL034410.D
Acq: 25 Nov 2019 17:40

Tgt Ion:	57	Resp:	8256
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.0	112.4#
43	0.0	186.6	279.8#
56	130.7	41.5	62.3#

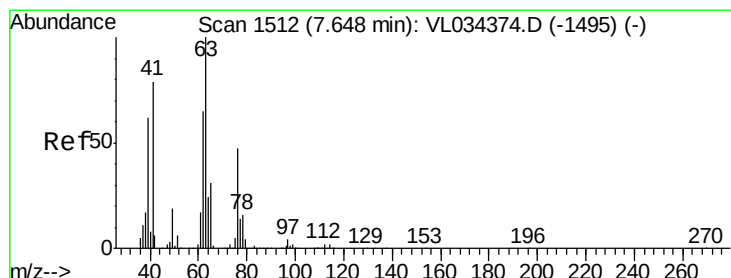
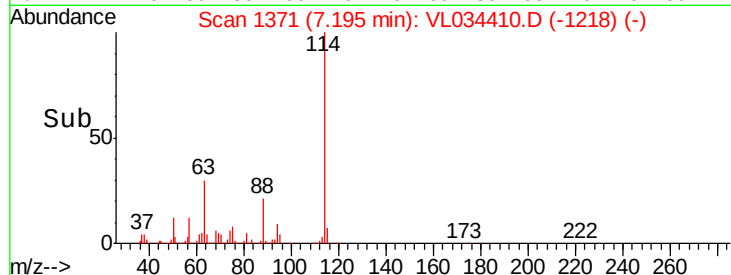
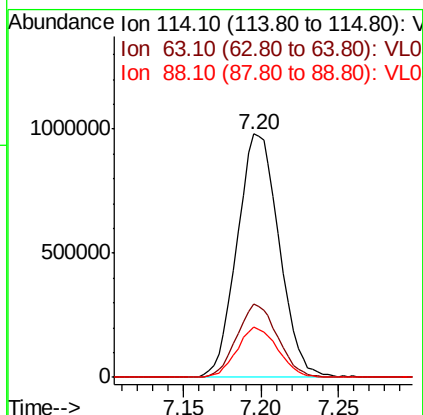
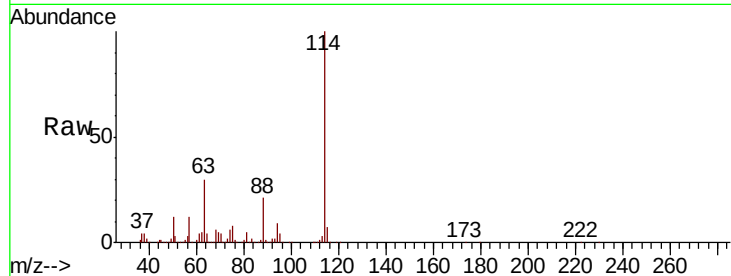




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.01 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

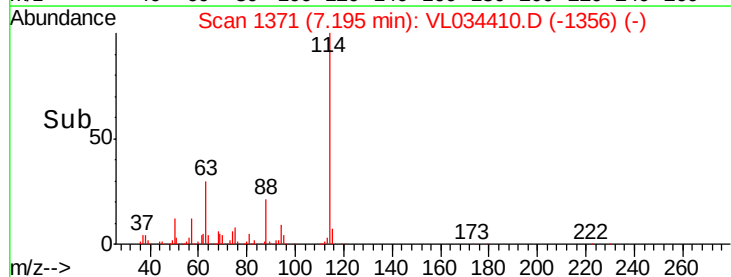
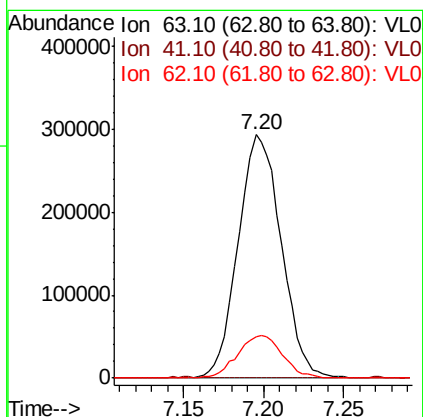
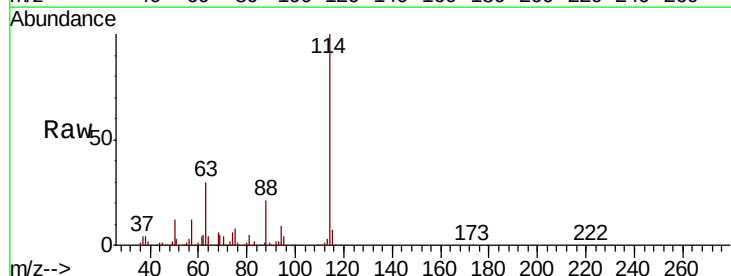
Instrument :
 MSVOA_L
 ClientSampled :

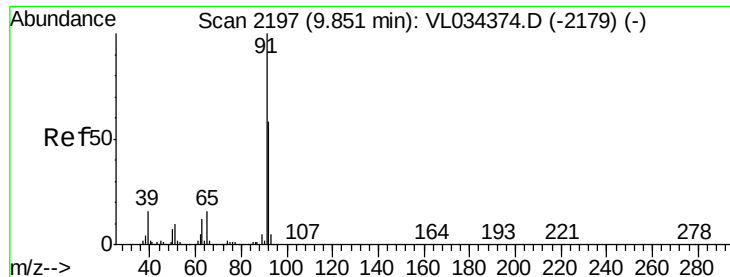
Tot Ion:114 Resp: 1854364
 Ion Ratio Lower Upper
 114 100
 63 29.2 24.2 36.4
 88 20.0 15.9 23.9



#39
 1,2-Dichloropropane
 Concen: 7.543 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034410.D
 Acq: 25 Nov 2019 17:40

Tgt Ion: 63 Resp: 538700
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 17.1 52.3 78.5#





#53

Toluene

Concen: 0.266 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

Instrument :

MSVOA_L

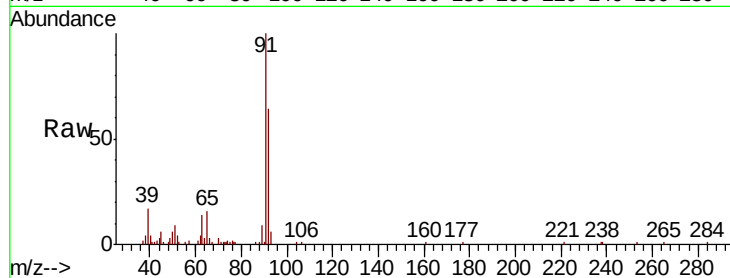
ClientSampleId :

Tot Ion: 91 Resp: 55949

Ion Ratio Lower Upper

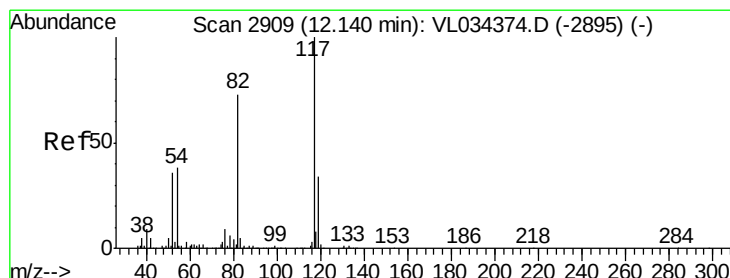
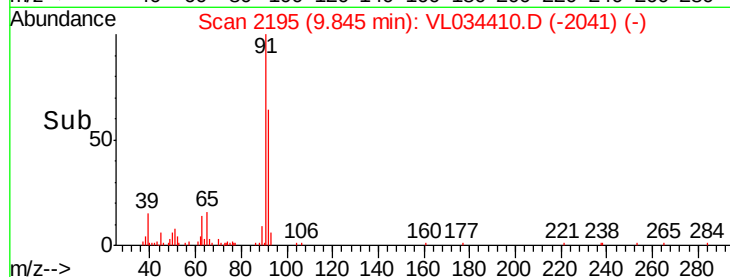
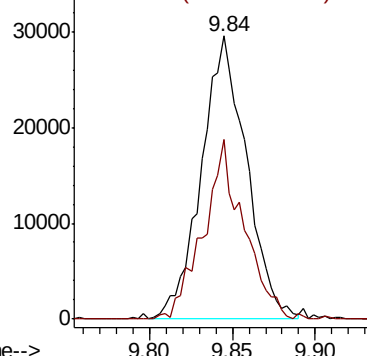
91 100

92 56.9 47.9 71.9



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: 12.13 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

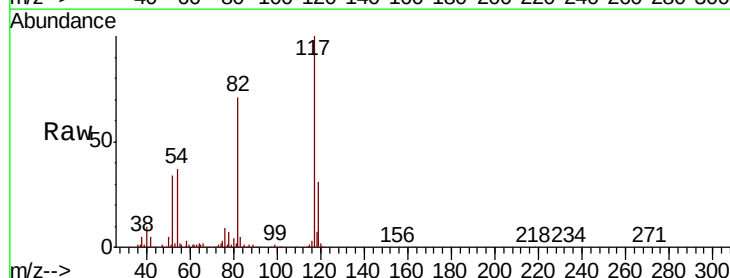
Tgt Ion: 117 Resp: 1804344

Ion Ratio Lower Upper

117 100

82 71.0 57.5 86.3

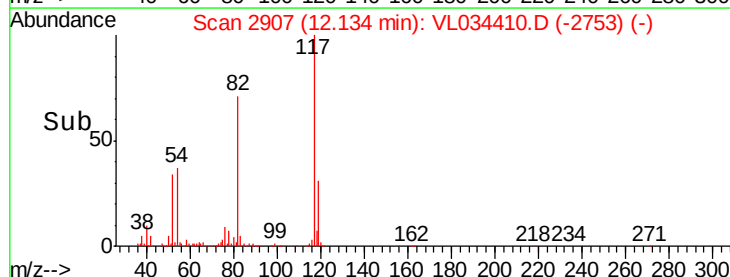
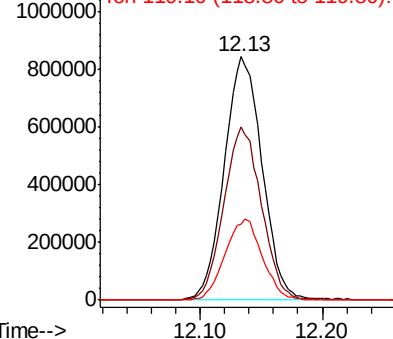
119 32.9 25.4 38.2

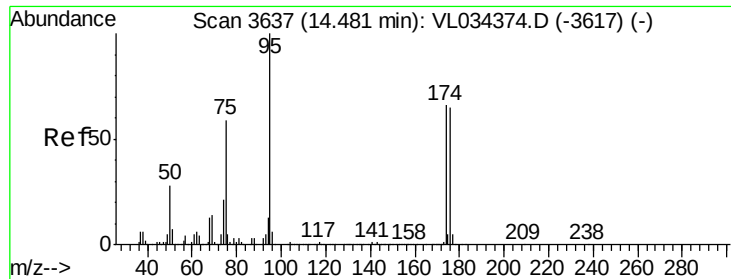


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.977 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. -0.01 min

Lab File: VL034410.D

Acq: 25 Nov 2019 17:40

Instrument :

MSVOA_L

ClientSampleId :

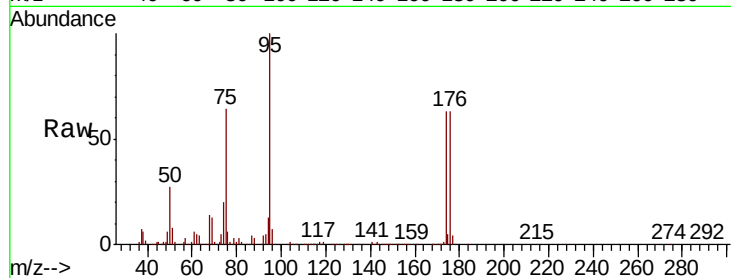
Tot Ion: 95 Resp: 1514395

Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.2

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

