

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034447.D
 Acq On : 3 Dec 2019 4:32
 Operator : SY/AP
 Sample : K6097-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3ADL

Quant Time: Dec 03 05:57:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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	5.69	49	732267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1403964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1381057	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1162106	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

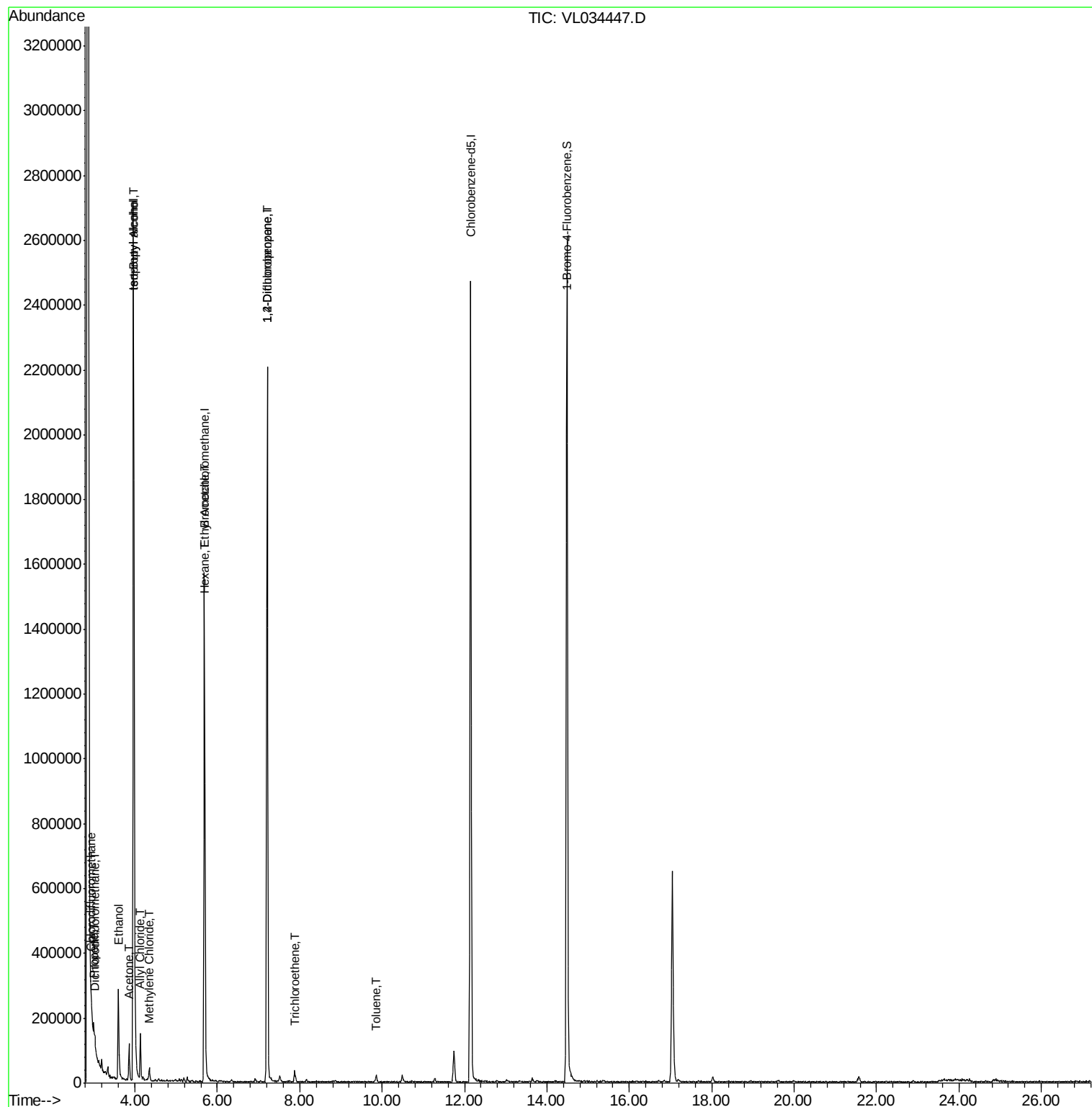
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	18794	0.142	ppbv	92
3) Chlorodifluoromethane	2.94	51	15410	0.169	ppbv #	69
9) Propene	3.00	41	6810	0.168	ppbv #	64
13) Ethanol	3.60	45	265421	23.490	ppbv	96
15) Acetone	3.86	43	100887	0.962	ppbv	100
17) tert-Butyl alcohol	3.96	59	108868	1.235	ppbv	98
19) Isopropyl Alcohol	3.96	45	3029980	45.081	ppbv #	99
20) Methylene Chloride	4.35	84	10109	0.272	ppbv	96
21) Allyl Chloride	4.13	41	16959	0.270	ppbv #	71
25) Ethyl Acetate	5.70	43	10470	0.056	ppbv #	92
26) Hexane	5.70	57	4074	0.051	ppbv #	44
38) Trichloroethene	7.88	130	8742	0.152	ppbv #	87
39) 1,2-Dichloropropane	7.21	63	415719	7.689	ppbv #	23
53) Toluene	9.85	91	5082	0.032	ppbv #	1

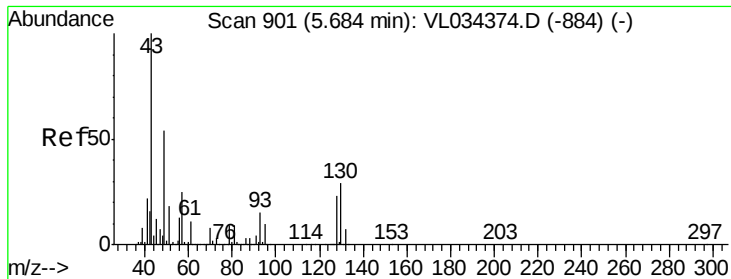
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 03 05:57:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034447.D

Acq: 3 Dec 2019 4:32

Instrument :

MSVOA_L

ClientSampleId :

IA-3ADL

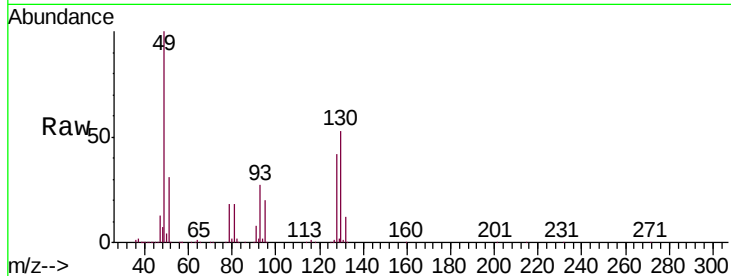
Tgt Ion: 49 Resp: 732267

Ion Ratio Lower Upper

49 100

128 43.1 21.8 65.3

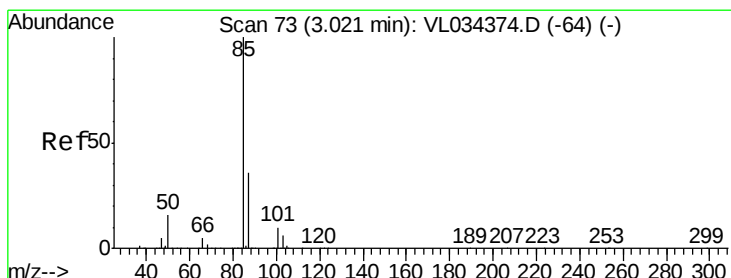
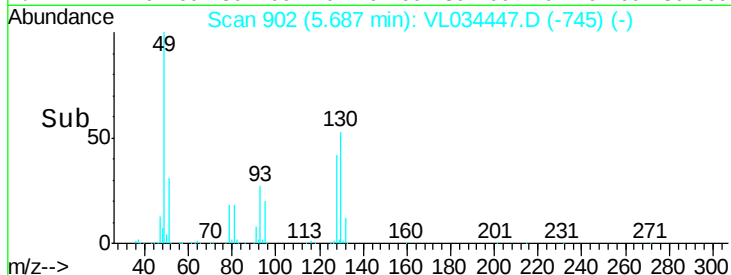
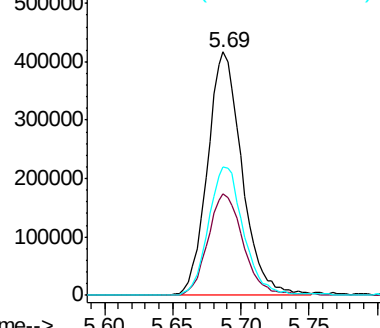
130 54.1 28.0 84.0



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: 0.142 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL034447.D

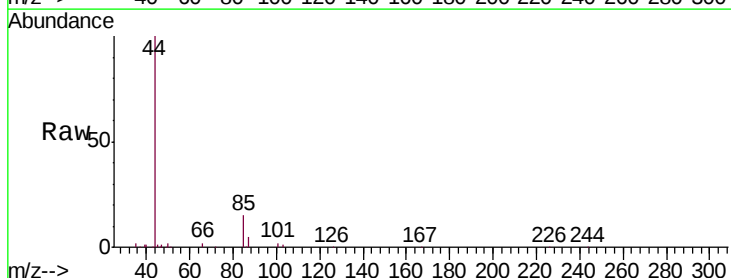
Acq: 3 Dec 2019 4:32

Tgt Ion: 85 Resp: 18794

Ion Ratio Lower Upper

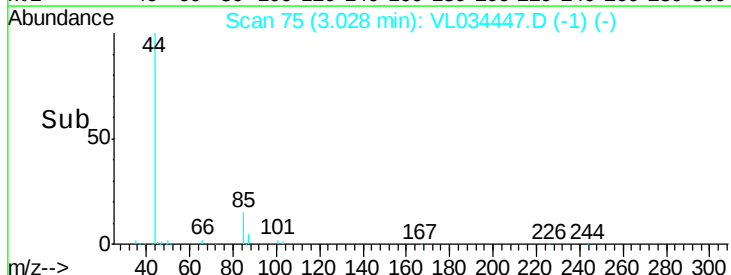
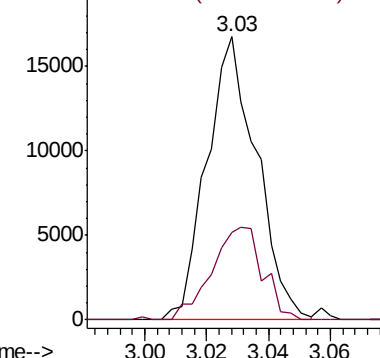
85 100

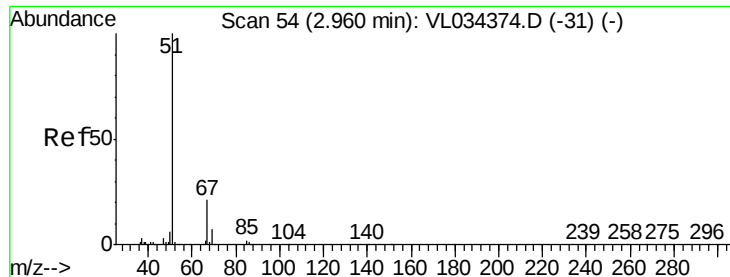
87 30.9 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.169 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL034447.D

Acq: 3 Dec 2019 4:32

Instrument :

MSVOA_L

ClientSampleId :

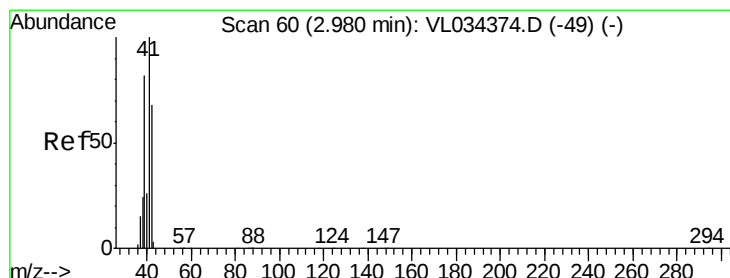
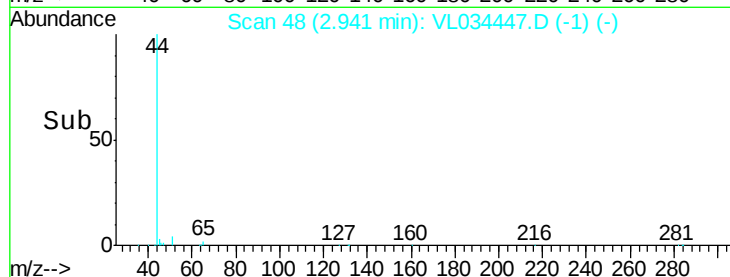
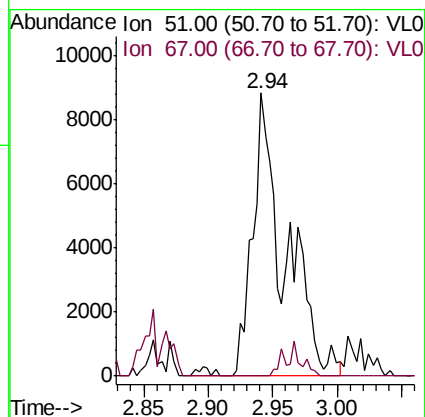
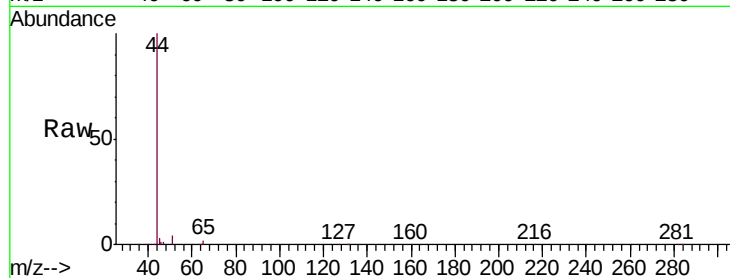
IA-3ADL

Tgt Ion: 51 Resp: 15410

Ion Ratio Lower Upper

51 100

67 6.0 16.2 24.2#



#9

Propene

Concen: 0.168 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL034447.D

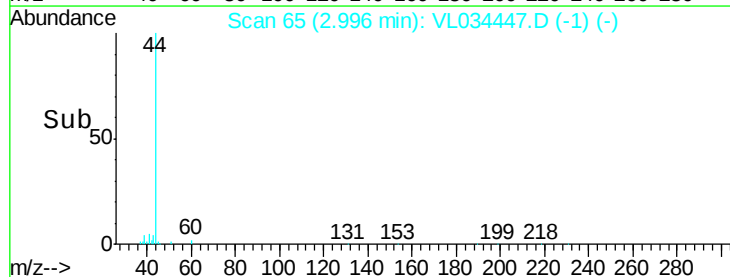
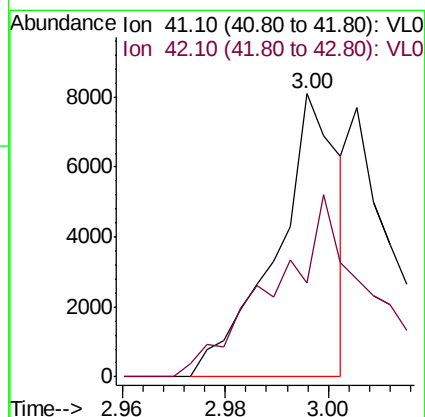
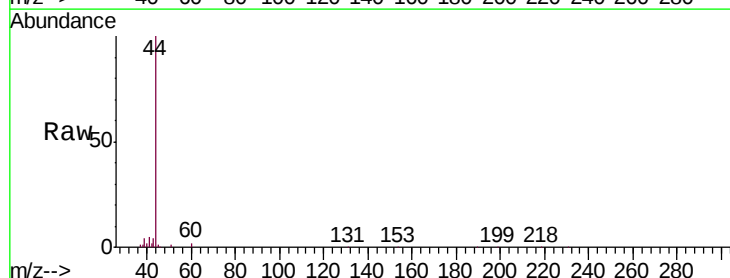
Acq: 3 Dec 2019 4:32

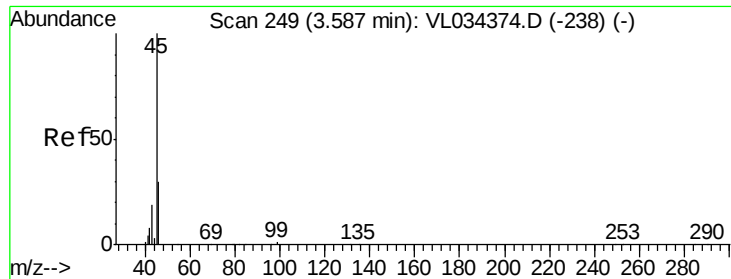
Tgt Ion: 41 Resp: 6810

Ion Ratio Lower Upper

41 100

42 97.5 54.6 82.0#





#13

Ethanol

Concen: 23.490 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.01 min

Lab File: VL034447.D

Acq: 3 Dec 2019 4:32

Instrument :

MSVOA_L

ClientSampleId :

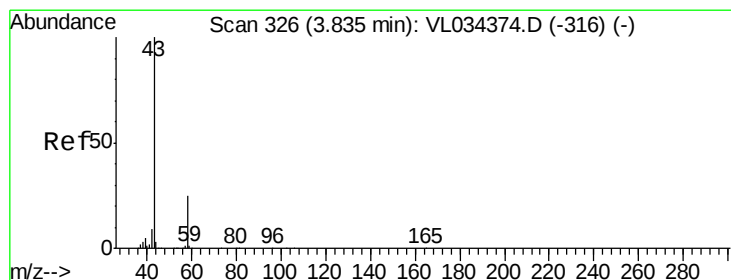
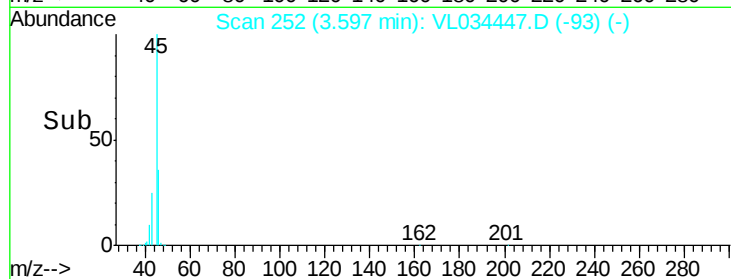
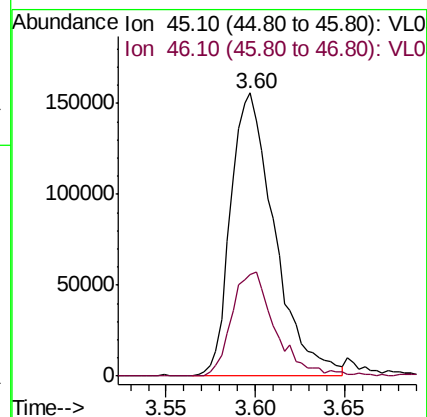
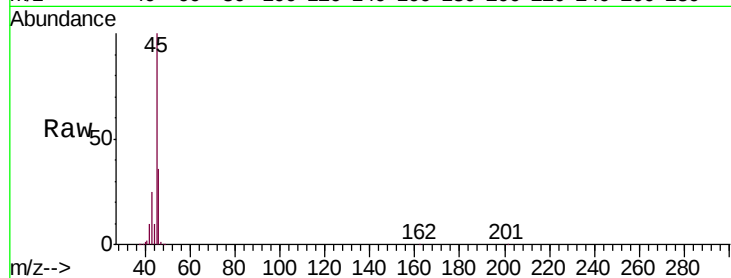
IA-3ADL

Tgt Ion: 45 Resp: 265421

Ion Ratio Lower Upper

45 100

46 37.0 13.8 55.4



#15

Acetone

Concen: 0.962 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL034447.D

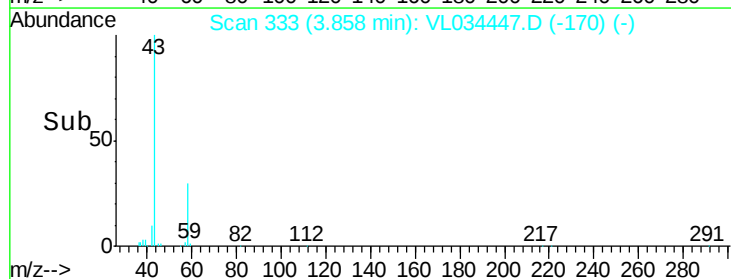
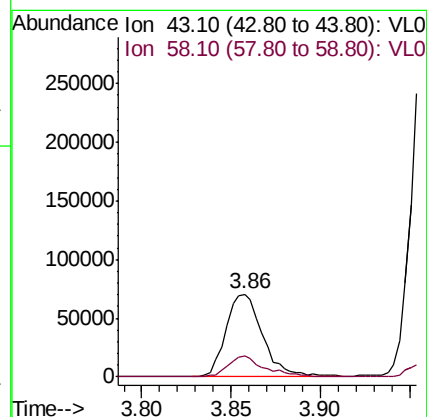
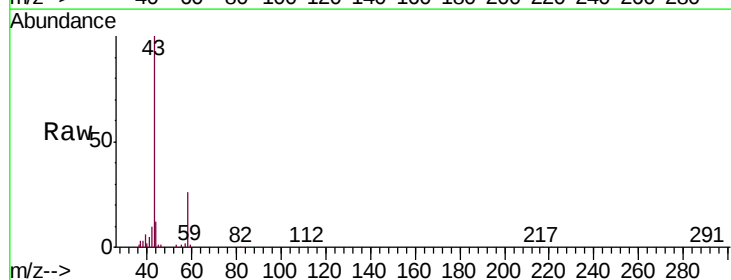
Acq: 3 Dec 2019 4:32

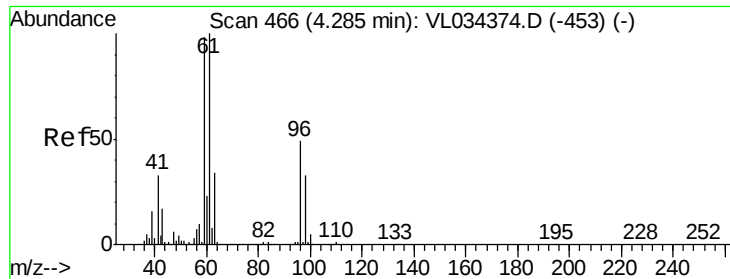
Tgt Ion: 43 Resp: 100887

Ion Ratio Lower Upper

43 100

58 25.1 20.2 30.4

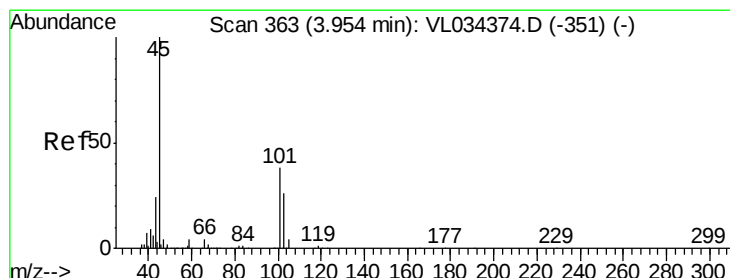
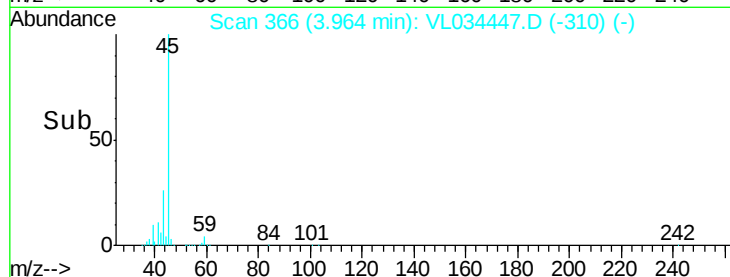
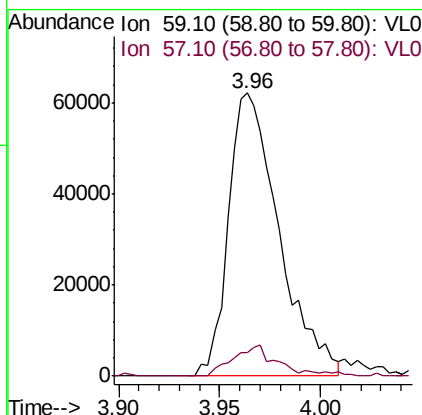
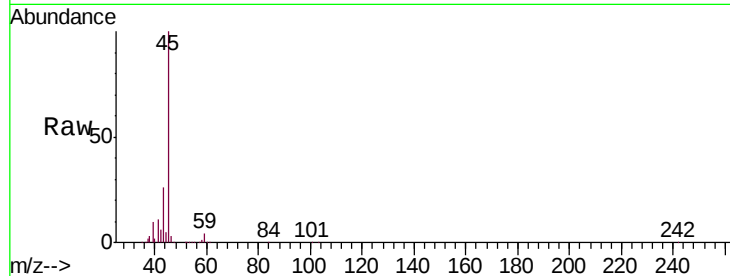




#17
 tert-Butyl alcohol
 Concen: 1.235 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. -0.32 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

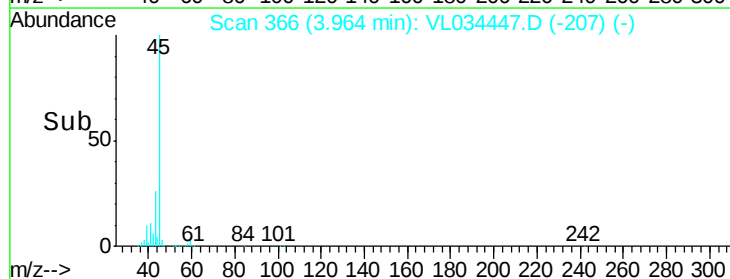
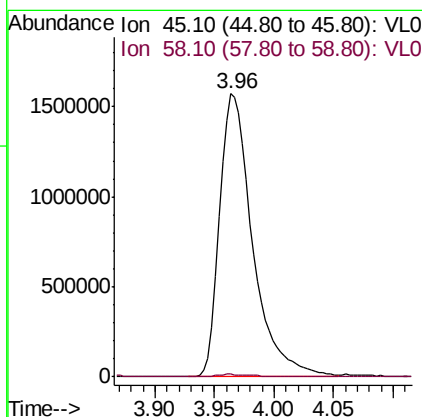
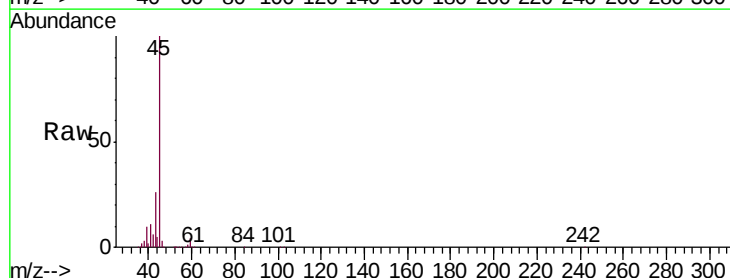
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3ADL

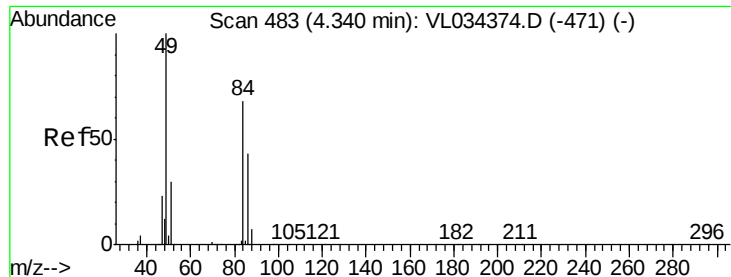
Tgt Ion: 59 Resp: 108868
 Ion Ratio Lower Upper
 59 100
 57 10.2 8.8 13.2



#19
 Isopropyl Alcohol
 Concen: 45.081 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

Tgt Ion: 45 Resp: 3029980
 Ion Ratio Lower Upper
 45 100
 58 1.1 1.3 1.9#

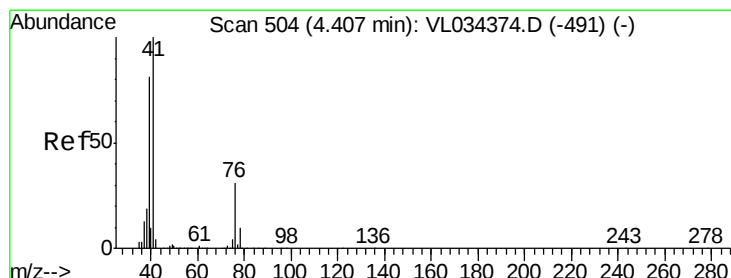
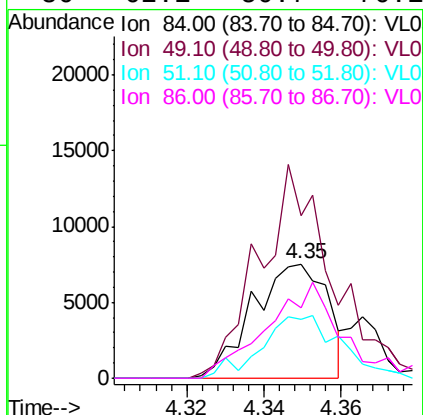
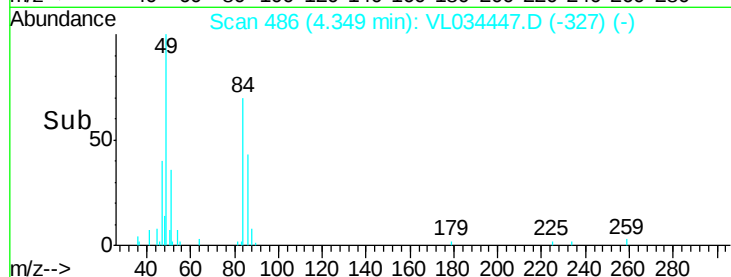
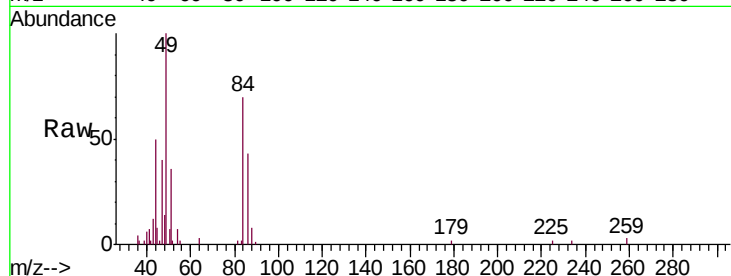




#20
Methylene Chloride
Concen: 0.272 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL034447.D
Acq: 3 Dec 2019 4:32

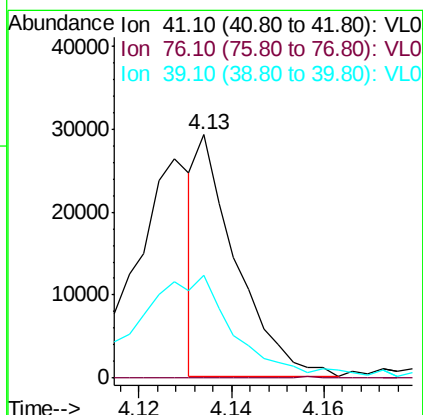
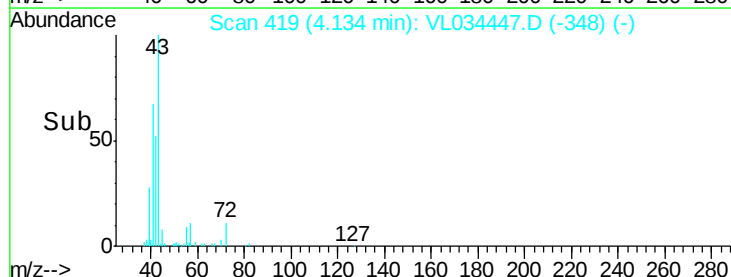
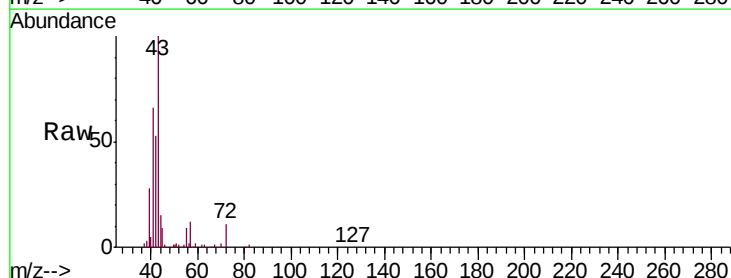
Instrument :
MSVOA_L
ClientSampleId :
IA-3ADL

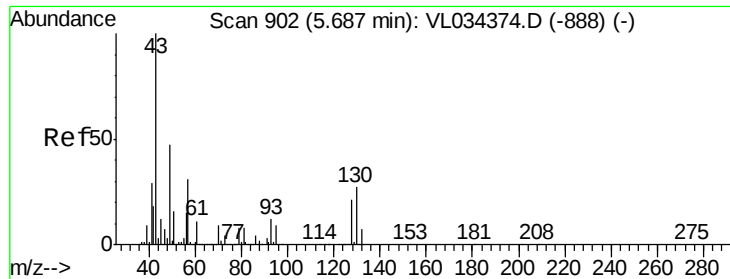
Tgt Ion:	84	Resp:	10109
Ion	Ratio	Lower	Upper
84	100		
49	143.0	116.8	175.2
51	52.2	35.6	53.4
86	62.1	50.7	76.1



#21
Allyl Chloride
Concen: 0.270 ppbv
RT: 4.13 min Scan# 419
Delta R.T. -0.27 min
Lab File: VL034447.D
Acq: 3 Dec 2019 4:32

Tgt Ion:	41	Resp:	16959
Ion	Ratio	Lower	Upper
41	100		
76	0.4	24.2	36.2#
39	101.0	66.9	100.3#





#25

Ethyl Acetate

Concen: 0.056 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034447.D

Acq: 3 Dec 2019 4:32

Instrument :

MSVOA_L

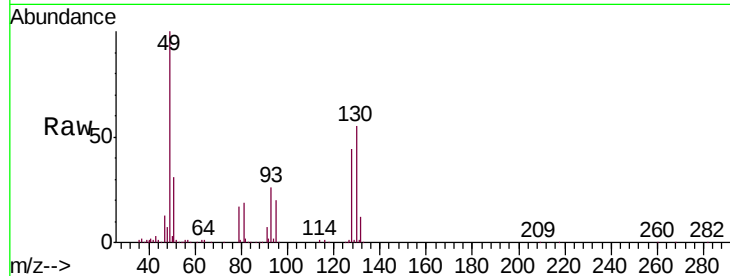
ClientSampleId :

IA-3ADL

Tgt Ion: 43 Resp: 10470

Ion Ratio Lower Upper

43	100		
45	11.3	8.2	12.4
61	7.7	7.5	11.3
70	0.4	5.7	8.5#

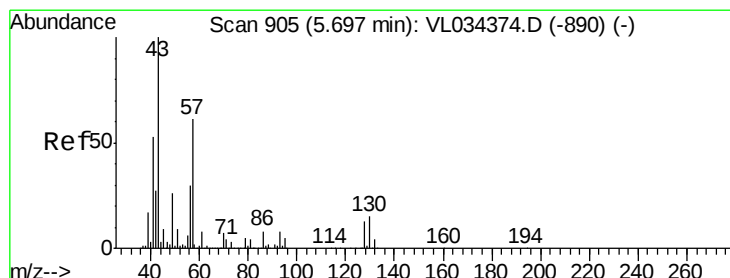
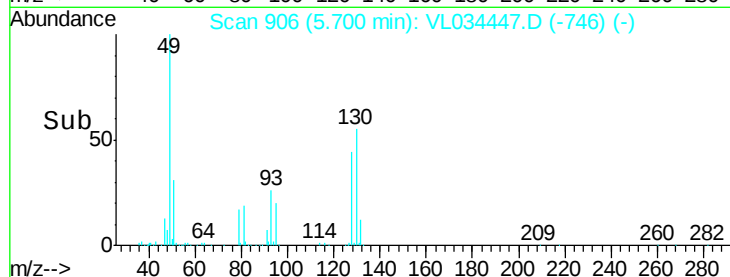
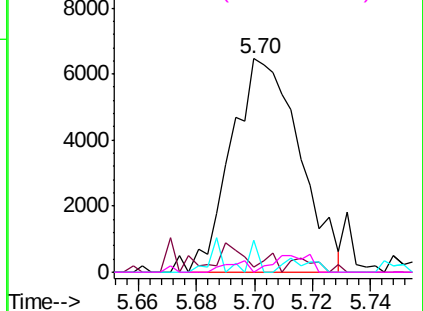


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.051 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

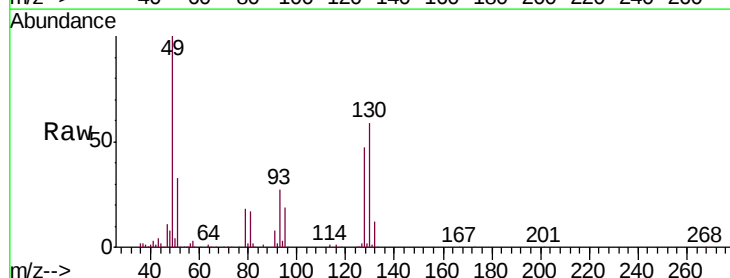
Lab File: VL034447.D

Acq: 3 Dec 2019 4:32

Tgt Ion: 57 Resp: 4074

Ion Ratio Lower Upper

57	100		
41	209.9	75.0	112.4#
43	276.7	186.6	279.8
56	0.0	41.5	62.3#

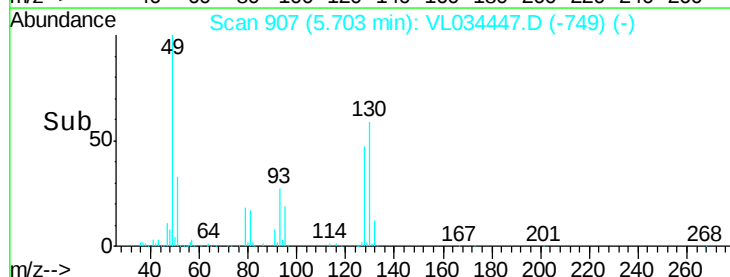
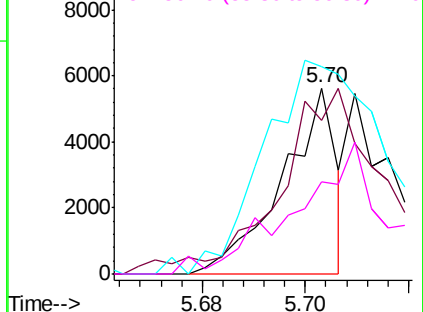


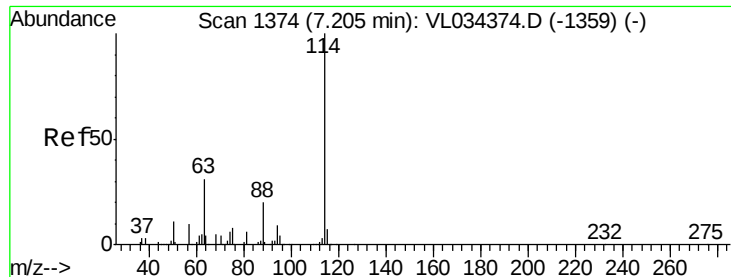
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

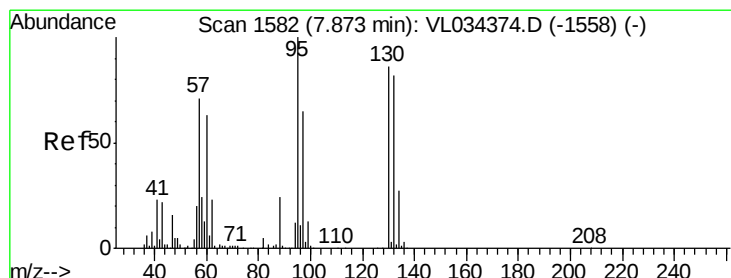
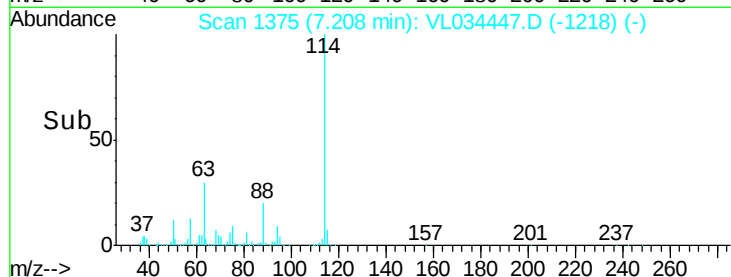
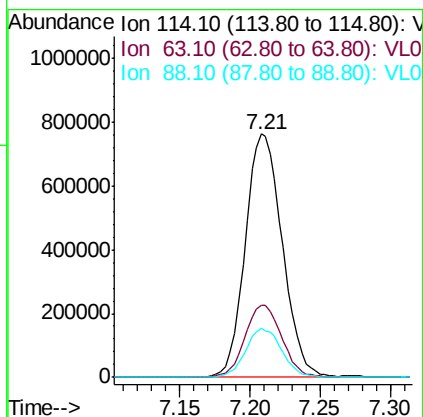
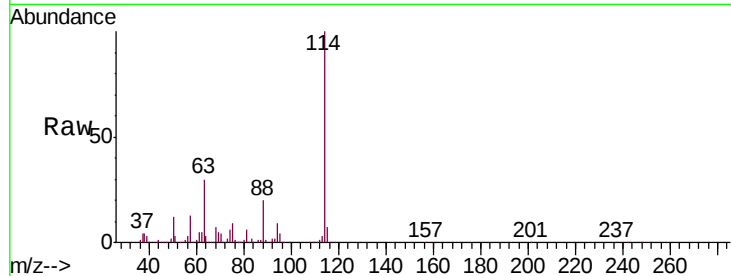




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

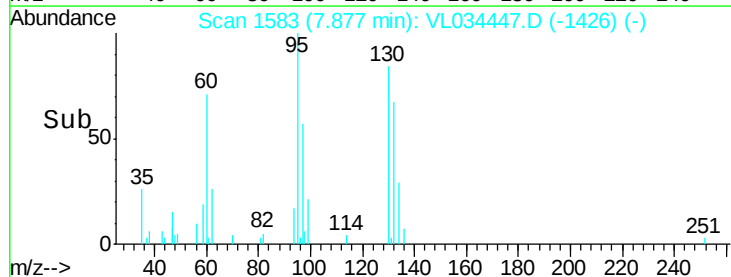
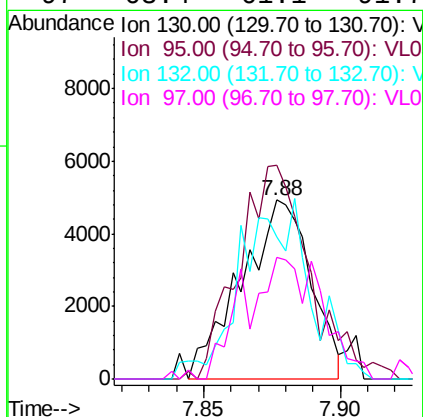
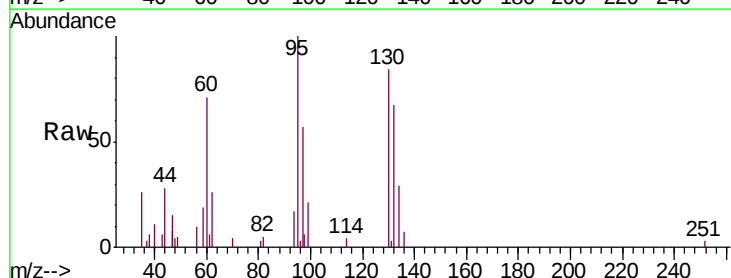
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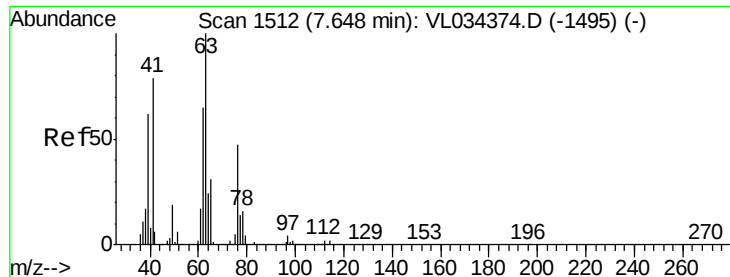
Tgt Ion:114 Resp: 1403964
 Ion Ratio Lower Upper
 114 100
 63 29.7 24.2 36.4
 88 19.6 15.9 23.9



#38
 Trichloroethene
 Concen: 0.152 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

Tgt Ion:130 Resp: 8742
 Ion Ratio Lower Upper
 130 100
 95 115.1 93.4 140.0
 132 70.0 76.4 114.6#
 97 63.4 61.1 91.7

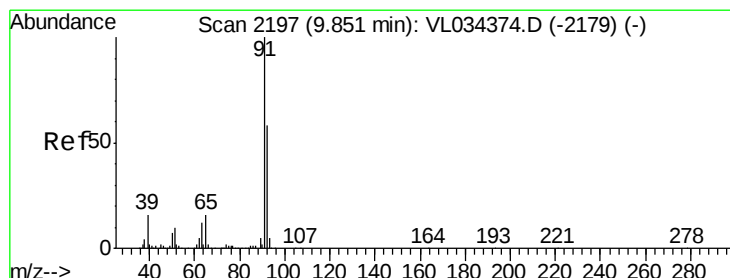
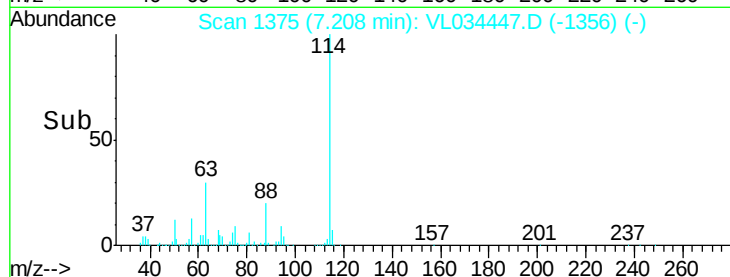
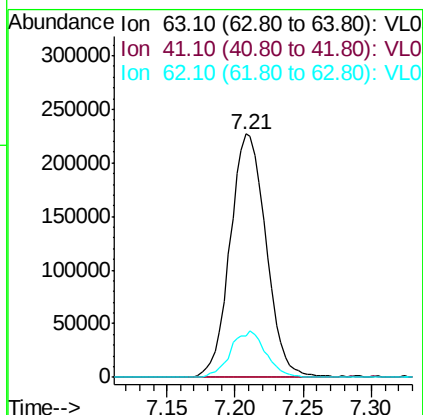
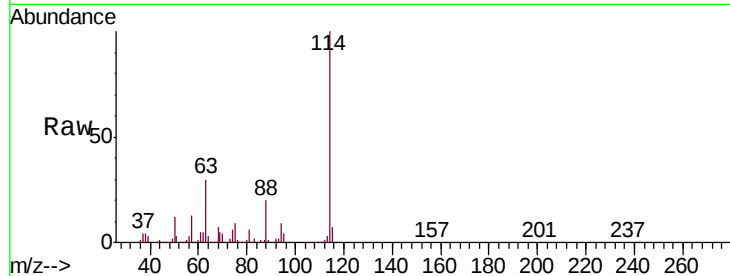




#39
 1,2-Dichloropropane
 Concen: 7.689 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.44 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

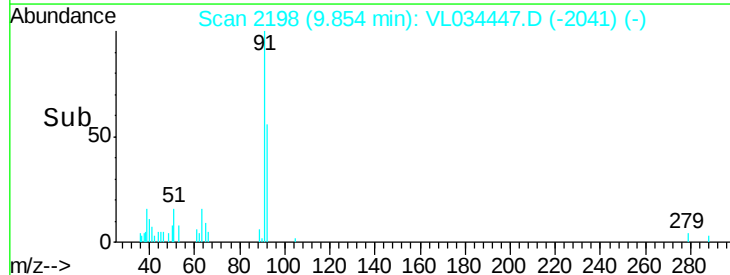
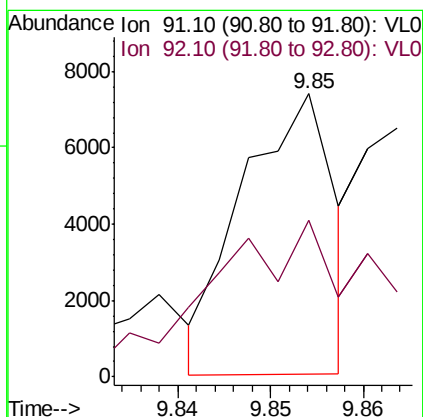
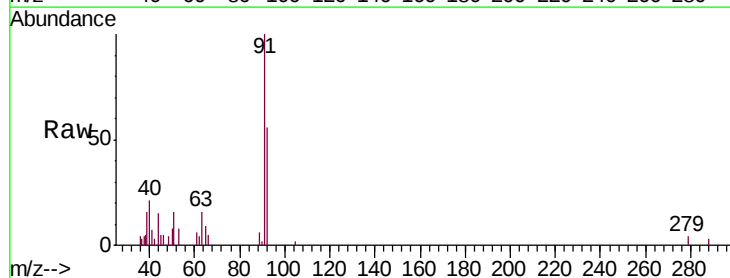
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3ADL

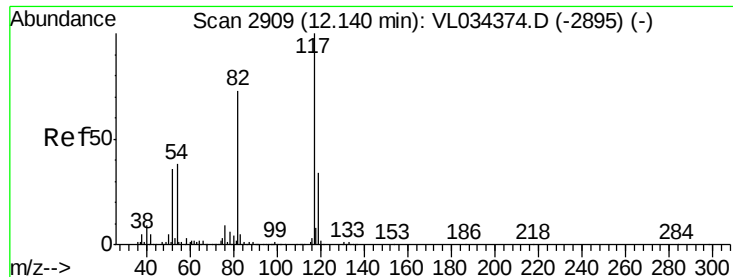
Tgt Ion: 63 Resp: 415719
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 16.8 52.3 78.5#



#53
 Toluene
 Concen: 0.032 ppbv
 RT: 9.85 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VL034447.D
 Acq: 3 Dec 2019 4:32

Tgt Ion: 91 Resp: 5082
 Ion Ratio Lower Upper
 91 100
 92 140.6 47.9 71.9#

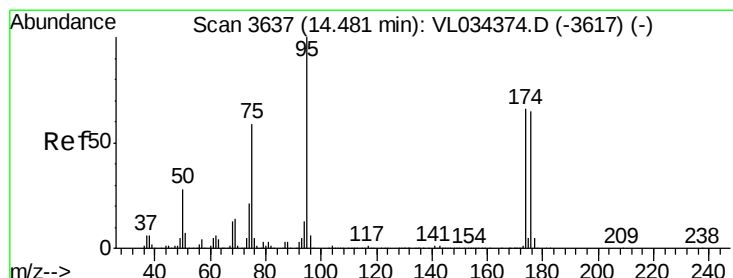
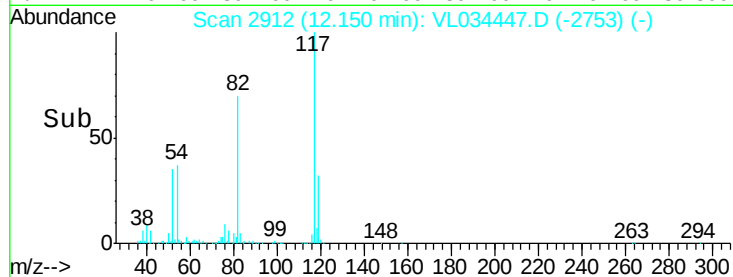
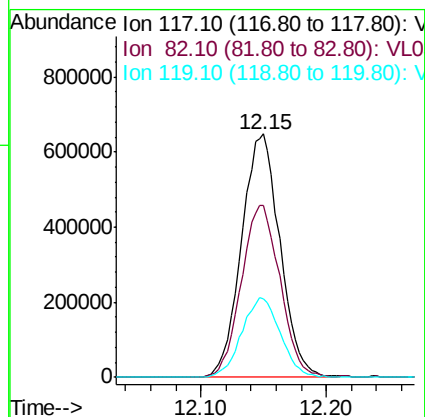
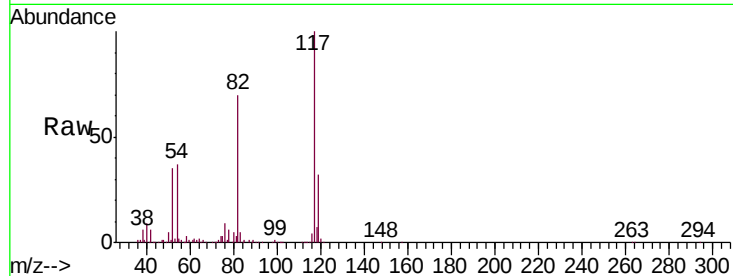




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL034447.D
Acq: 3 Dec 2019 4:32

Instrument :
MSVOA_L
ClientSampleId :
IA-3ADL

Tgt Ion: 117 Resp: 1381057
Ion Ratio Lower Upper
117 100
82 71.9 57.5 86.3
119 33.0 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.002 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.00 min
Lab File: VL034447.D
Acq: 3 Dec 2019 4:32

Tgt Ion: 95 Resp: 1162106
Ion Ratio Lower Upper
95 100
174 64.3 52.2 78.2
175 4.7 3.8 5.8

