

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034443.D
 Acq On : 3 Dec 2019 1:55
 Operator : SY/AP
 Sample : K6097-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1ADL

Quant Time: Dec 03 02:54:07 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	745445	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1436569	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1398502	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1211647	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

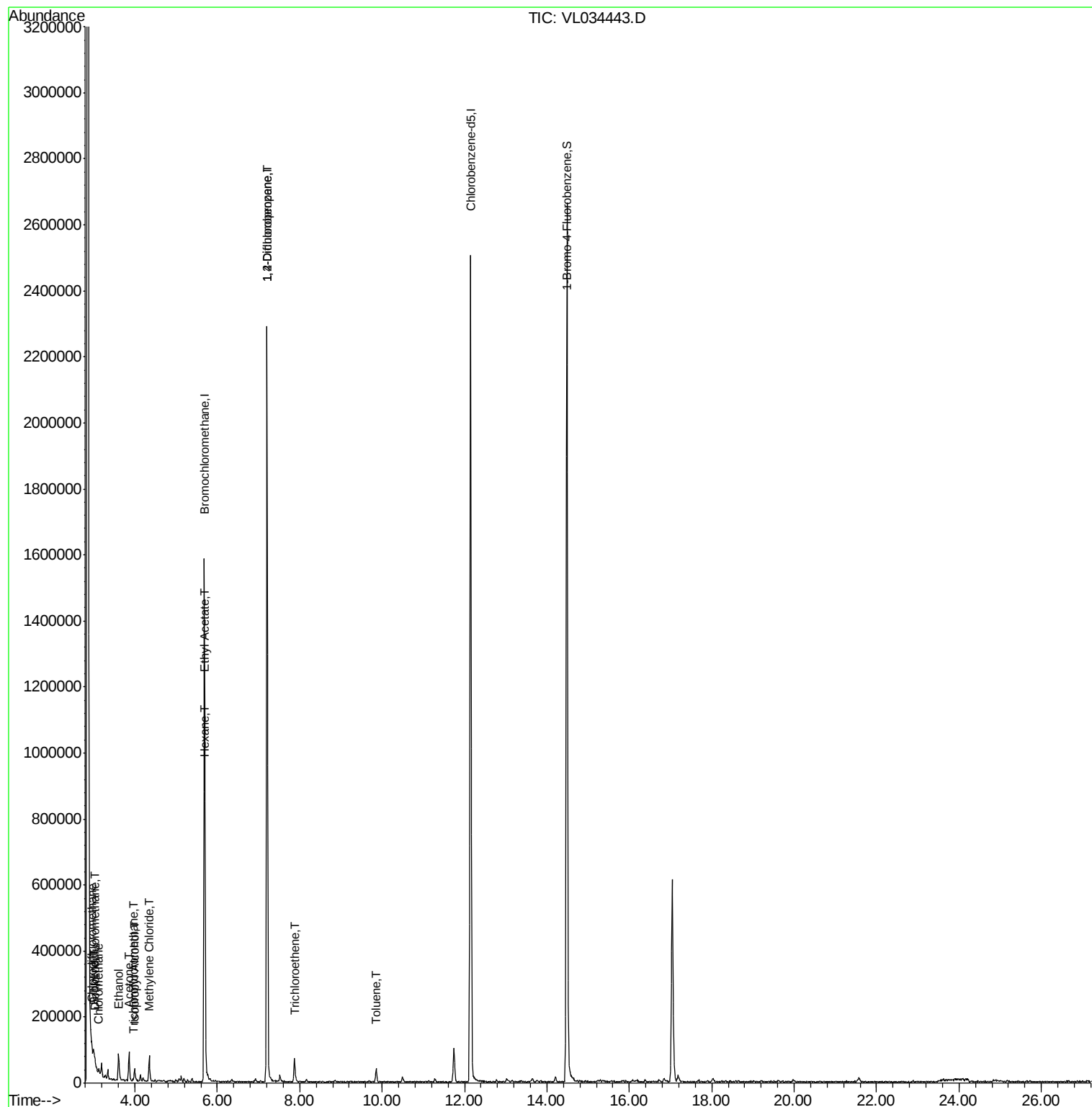
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	6209	0.046	ppbv	92
3) Chlorodifluoromethane	2.97	51	6540	0.070	ppbv #	90
4) Chloromethane	3.12	50	3364	0.061	ppbv #	73
9) Propene	2.99	41	3030	0.073	ppbv #	15
11) Trichlorofluoromethane	3.95	101	4279	0.032	ppbv #	41
13) Ethanol	3.60	45	78332	6.810	ppbv	92
15) Acetone	3.85	43	33090	0.310	ppbv #	26
19) Isopropyl Alcohol	3.99	45	35660	0.521	ppbv #	96
20) Methylene Chloride	4.35	84	24136	0.638	ppbv	97
25) Ethyl Acetate	5.71	43	14979	0.079	ppbv #	84
26) Hexane	5.71	57	20712	0.253	ppbv #	45
38) Trichloroethene	7.88	130	7119	0.121	ppbv	93
39) 1,2-Dichloropropane	7.21	63	429499	7.763	ppbv #	24
53) Toluene	9.85	91	14619	0.090	ppbv #	21

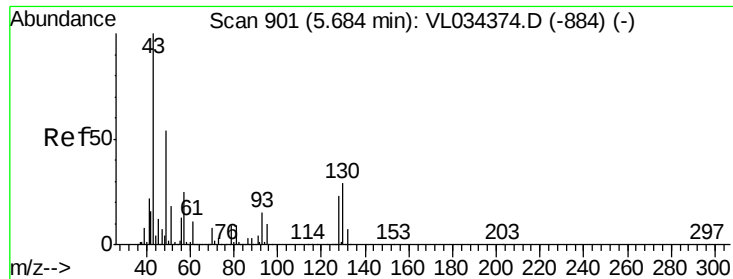
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1ADL

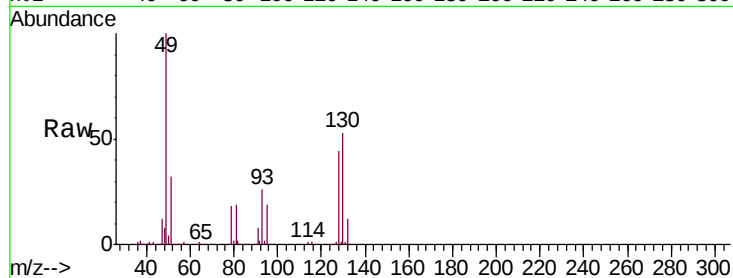
Tgt Ion: 49 Resp: 745445

Ion Ratio Lower Upper

49 100

128 44.0 21.8 65.3

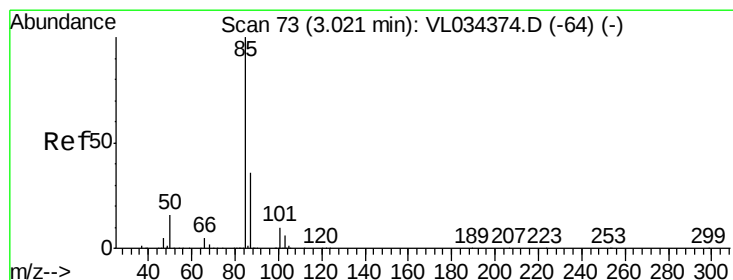
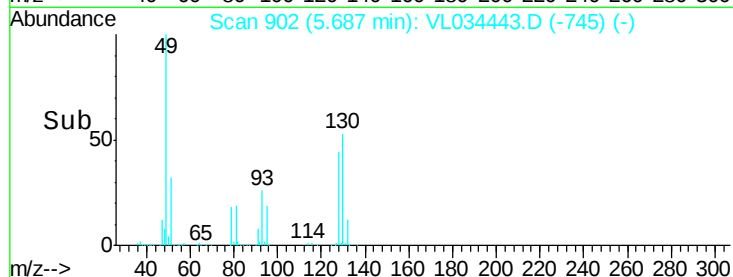
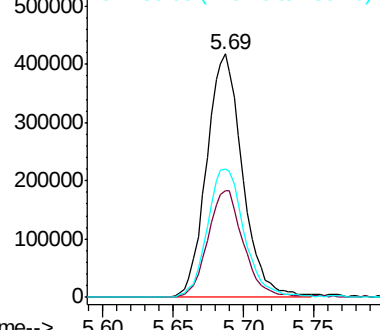
130 54.8 28.0 84.0



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: 0.046 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL034443.D

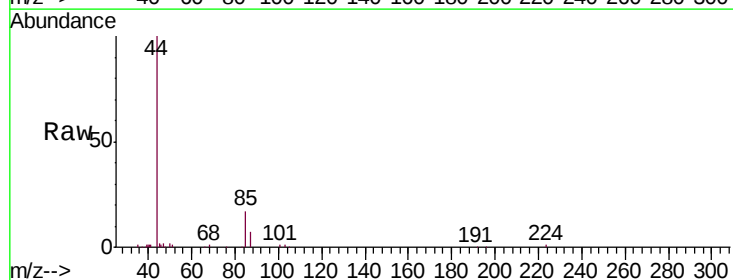
Acq: 3 Dec 2019 1:55

Tgt Ion: 85 Resp: 6209

Ion Ratio Lower Upper

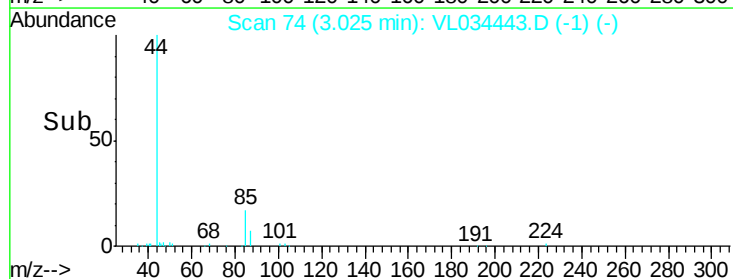
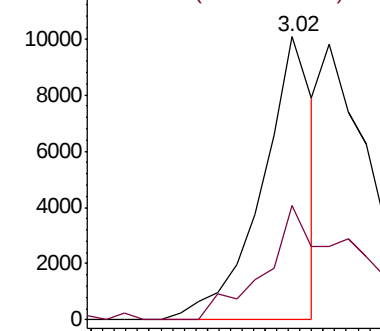
85 100

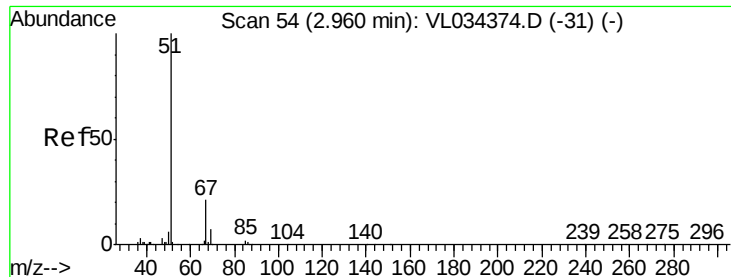
87 40.3 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.070 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.01 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

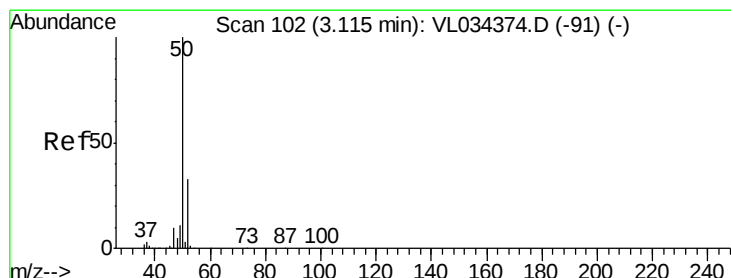
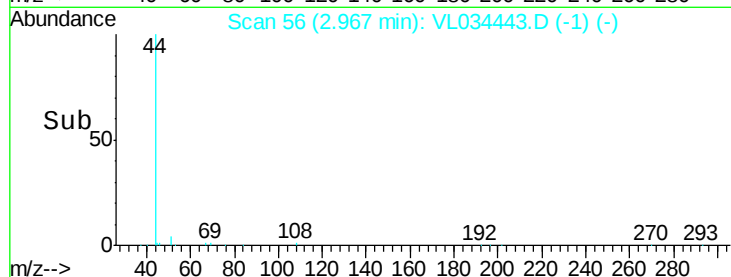
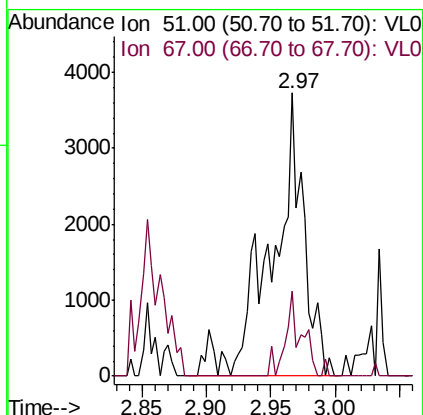
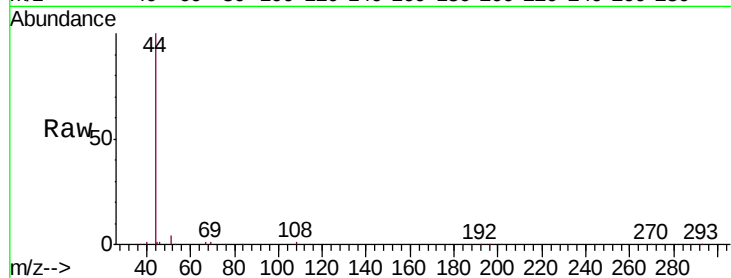
IA-1ADL

Tgt Ion: 51 Resp: 6540

Ion Ratio Lower Upper

51 100

67 15.4 16.2 24.2#



#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.01 min

Lab File: VL034443.D

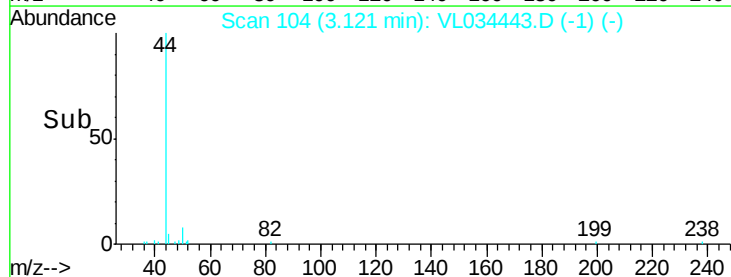
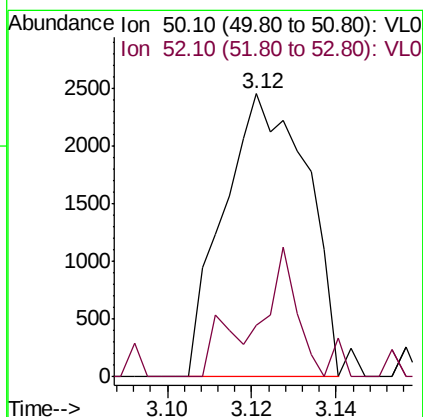
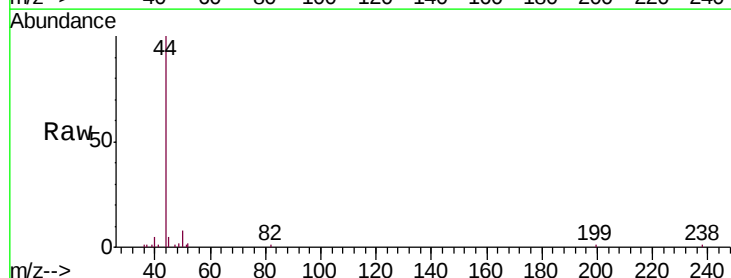
Acq: 3 Dec 2019 1:55

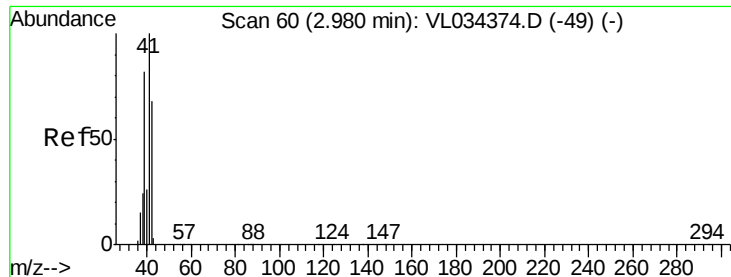
Tgt Ion: 50 Resp: 3364

Ion Ratio Lower Upper

50 100

52 18.1 26.8 40.2#





#9

Propene

Concen: 0.073 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

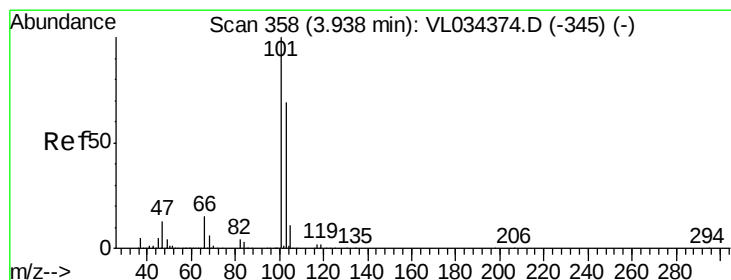
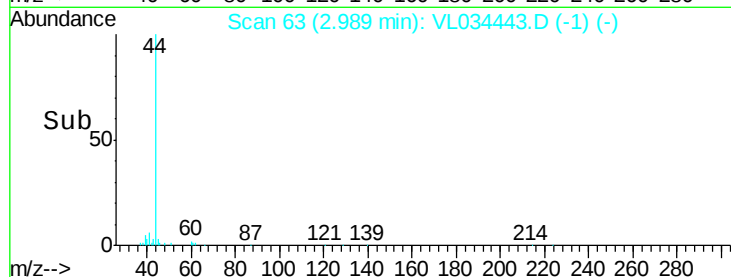
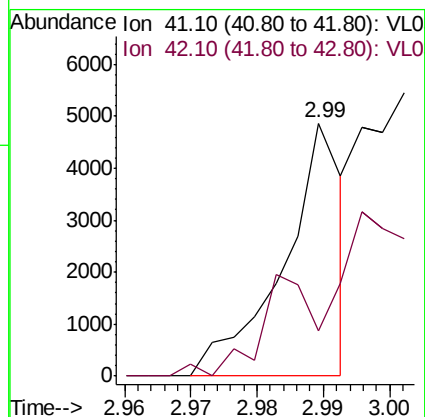
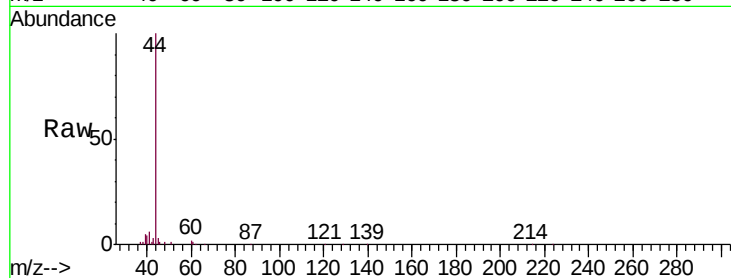
IA-1ADL

Tgt Ion: 41 Resp: 3030

Ion Ratio Lower Upper

41 100

42 137.3 54.6 82.0#



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL034443.D

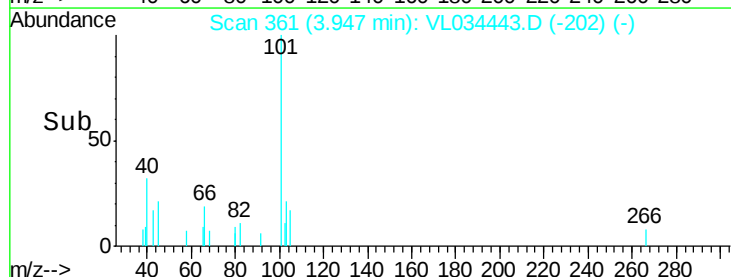
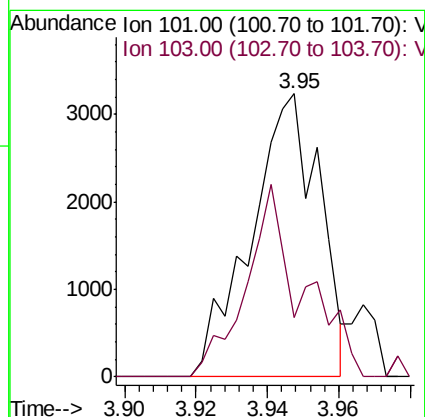
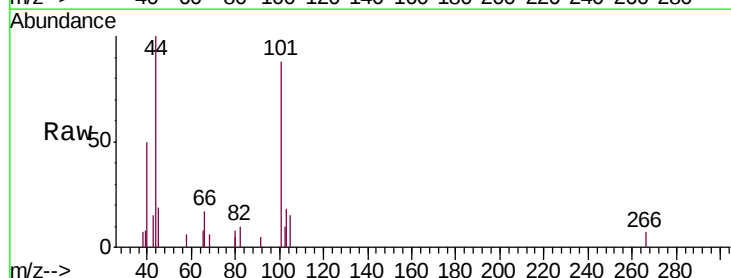
Acq: 3 Dec 2019 1:55

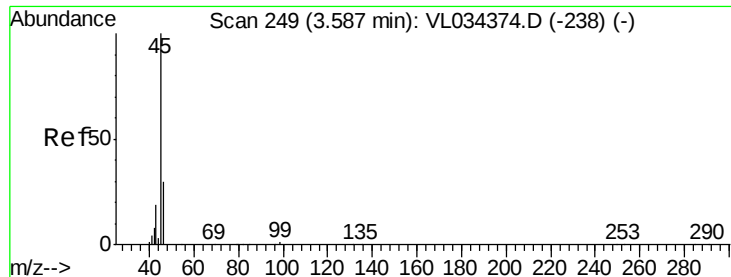
Tgt Ion: 101 Resp: 4279

Ion Ratio Lower Upper

101 100

103 21.0 55.4 83.0#





#13

Ethanol

Concen: 6.810 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.02 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

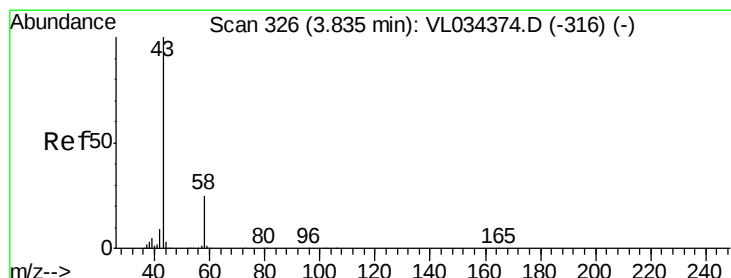
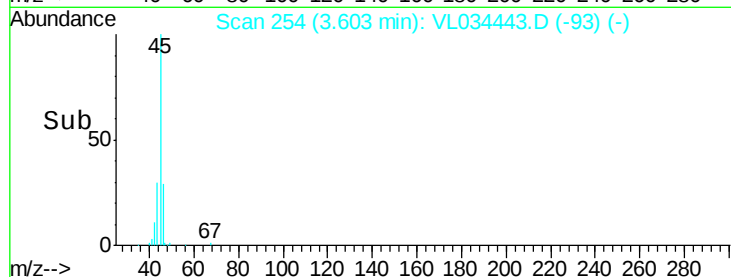
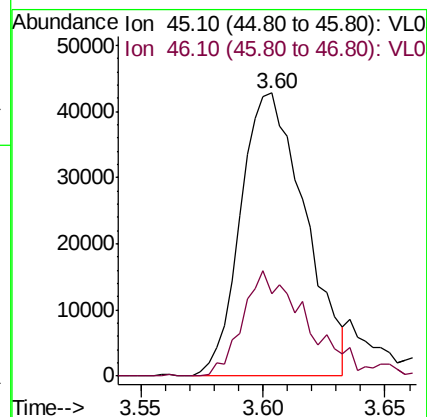
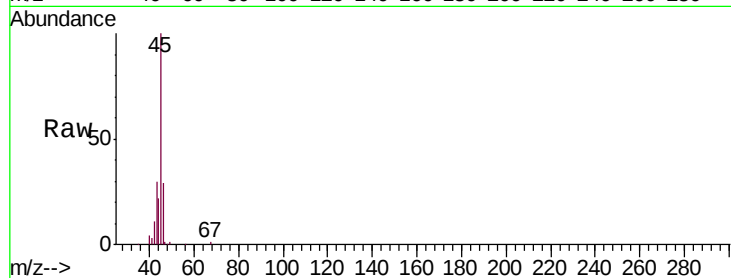
IA-1ADL

Tgt Ion: 45 Resp: 78332

Ion Ratio Lower Upper

45 100

46 39.0 13.8 55.4



#15

Acetone

Concen: 0.310 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034443.D

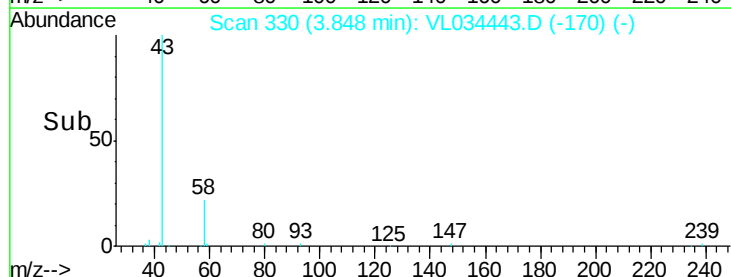
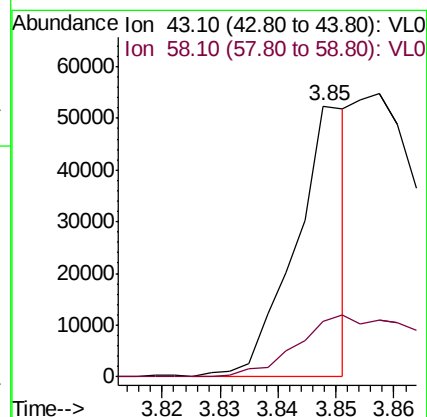
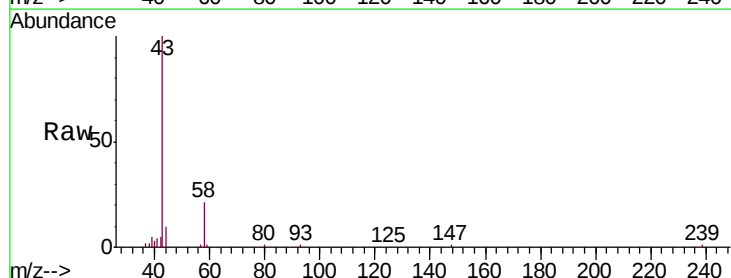
Acq: 3 Dec 2019 1:55

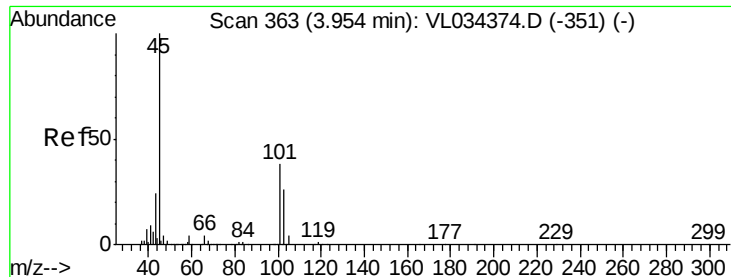
Tgt Ion: 43 Resp: 33090

Ion Ratio Lower Upper

43 100

58 62.4 20.2 30.4#





#19

Isopropyl Alcohol

Concen: 0.521 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.04 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

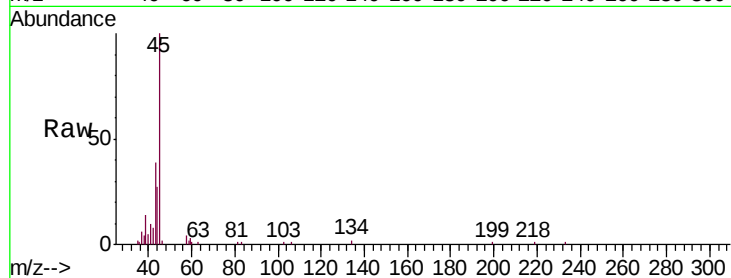
IA-1ADL

Tgt Ion: 45 Resp: 35660

Ion Ratio Lower Upper

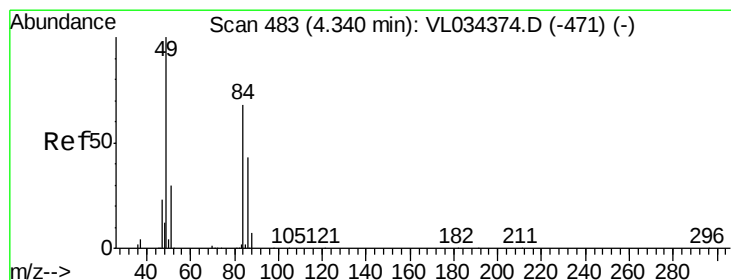
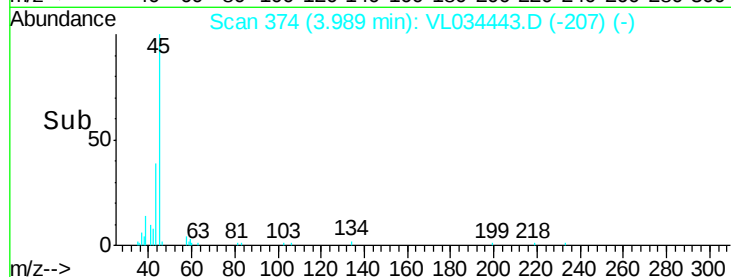
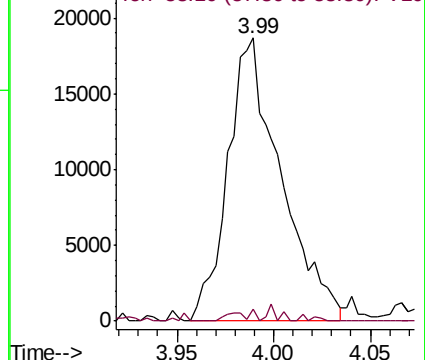
45 100

58 3.1 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.638 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Tgt Ion: 84 Resp: 24136

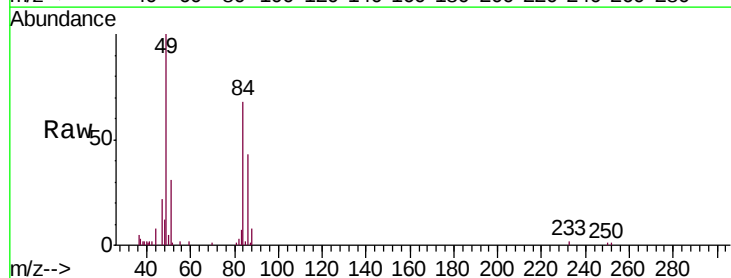
Ion Ratio Lower Upper

84 100

49 141.4 116.8 175.2

51 43.5 35.6 53.4

86 62.0 50.7 76.1

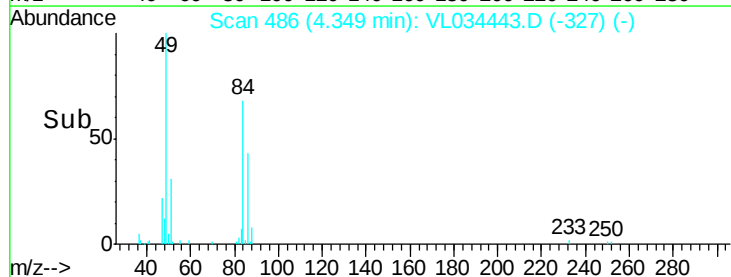
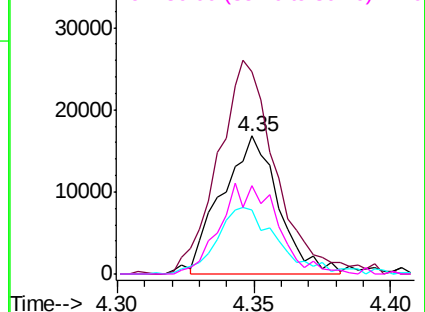


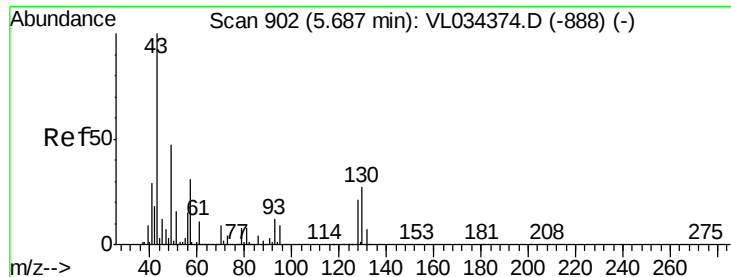
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

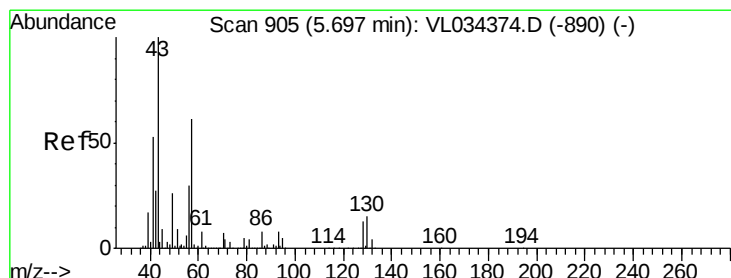
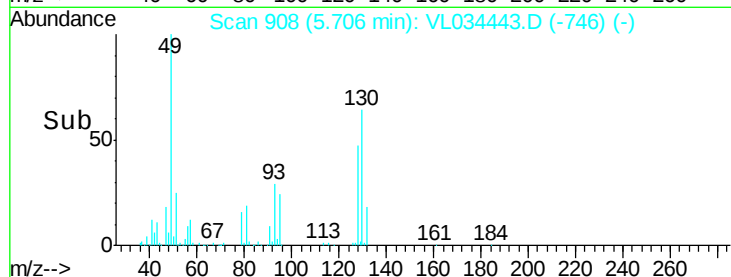
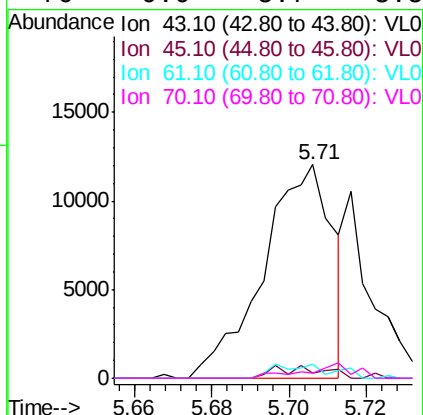
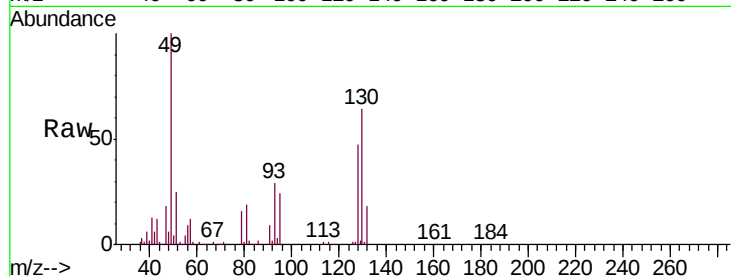




#25
Ethyl Acetate
Concen: 0.079 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL034443.D
Acq: 3 Dec 2019 1:55

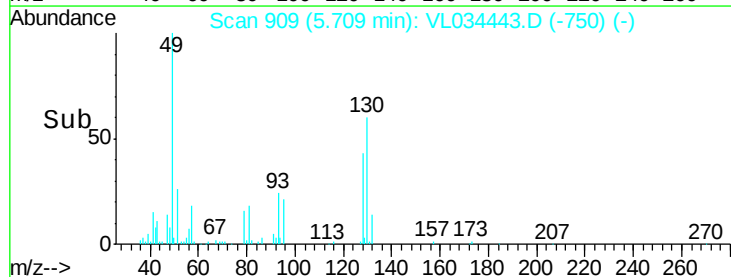
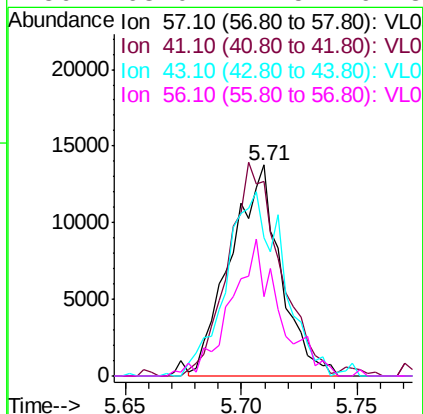
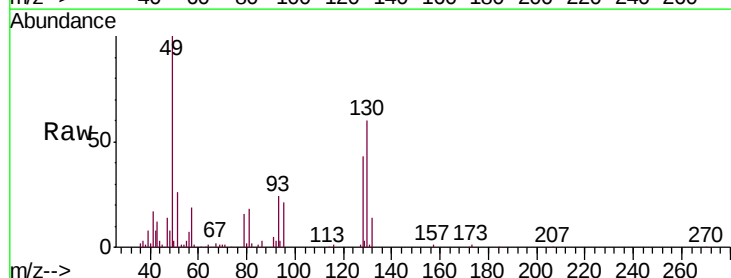
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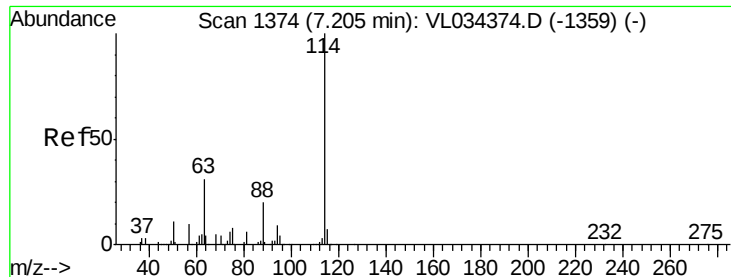
Tgt Ion:	43	Resp:	14979
Ion	Ratio	Lower	Upper
43	100		
45	4.3	8.2	12.4#
61	5.3	7.5	11.3#
70	0.0	5.7	8.5#



#26
Hexane
Concen: 0.253 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL034443.D
Acq: 3 Dec 2019 1:55

Tgt Ion:	57	Resp:	20712
Ion	Ratio	Lower	Upper
57	100		
41	107.4	75.0	112.4
43	99.7	186.6	279.8#
56	63.0	41.5	62.3#

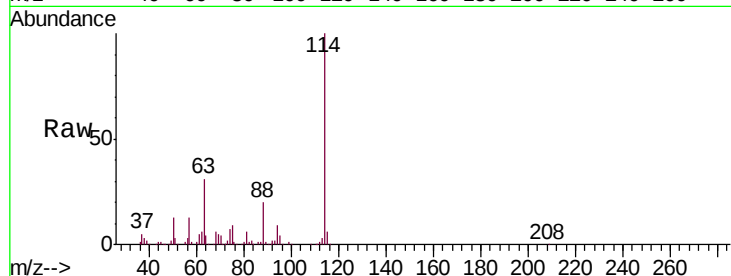




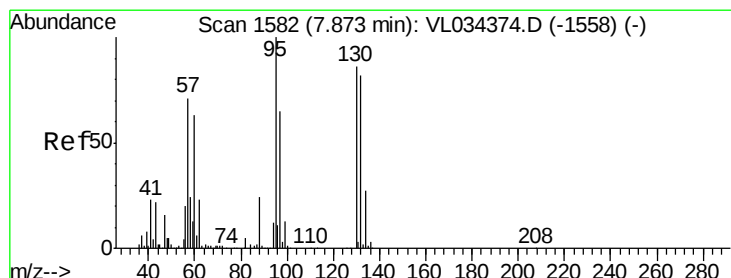
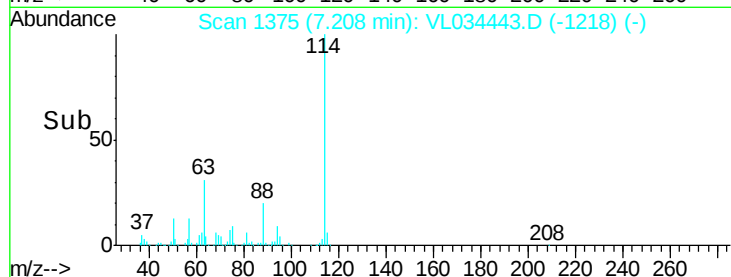
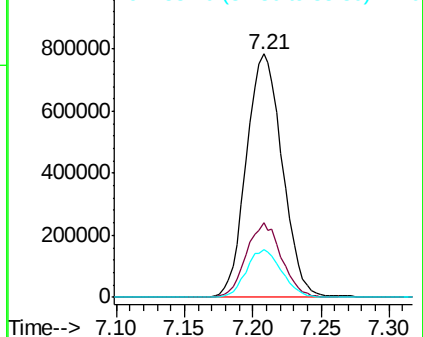
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VL034443.D
 Acq: 3 Dec 2019 1:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1ADL

Tgt Ion:114 Resp: 1436569
 Ion Ratio Lower Upper
 114 100
 63 30.0 24.2 36.4
 88 19.4 15.9 23.9



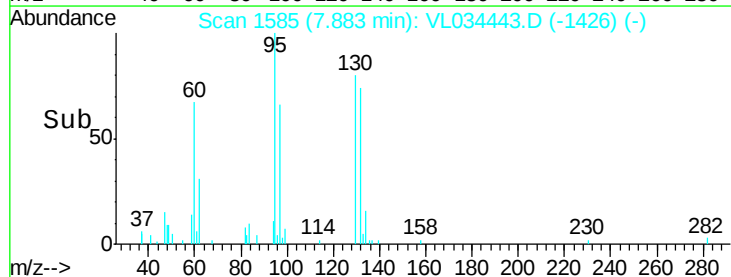
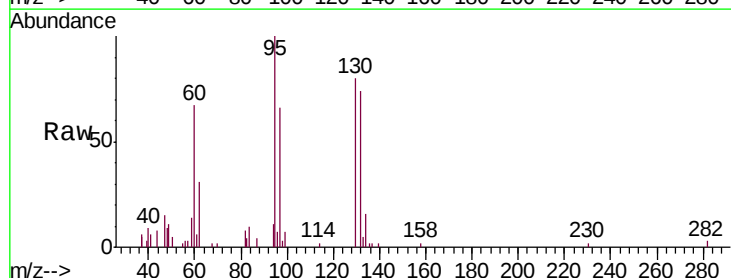
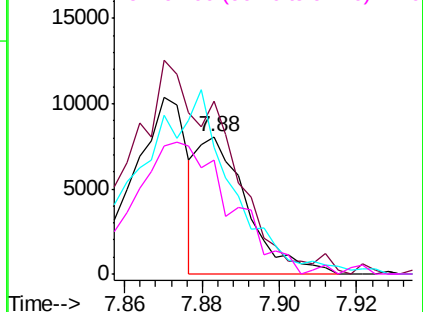
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

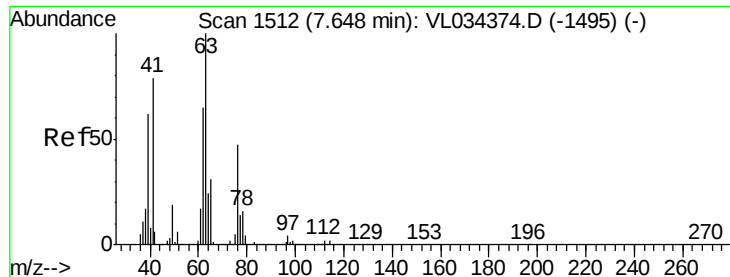


#38
 Trichloroethene
 Concen: 0.121 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VL034443.D
 Acq: 3 Dec 2019 1:55

Tgt Ion:130 Resp: 7119
 Ion Ratio Lower Upper
 130 100
 95 122.2 93.4 140.0
 132 87.0 76.4 114.6
 97 83.2 61.1 91.7

Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.763 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.44 min

Lab File: VL034443.D

Acq: 3 Dec 2019 1:55

Instrument :

MSVOA_L

ClientSampleId :

IA-1ADL

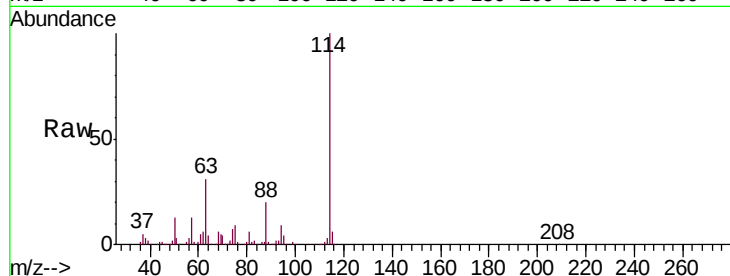
Tgt Ion: 63 Resp: 429499

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

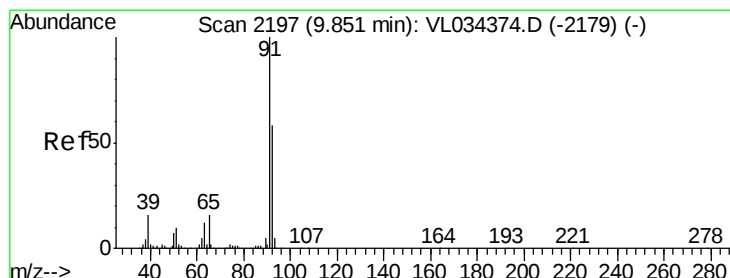
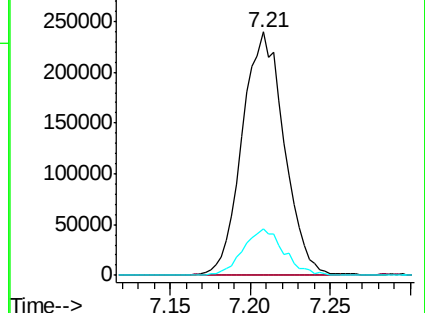
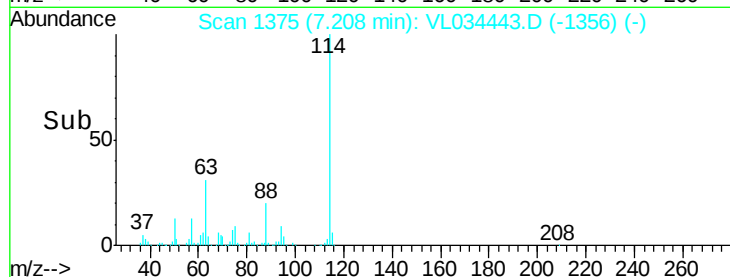
62 19.0 52.3 78.5#



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: 0.090 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VL034443.D

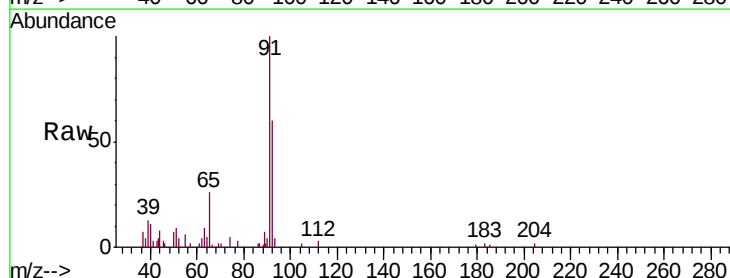
Acq: 3 Dec 2019 1:55

Tgt Ion: 91 Resp: 14619

Ion Ratio Lower Upper

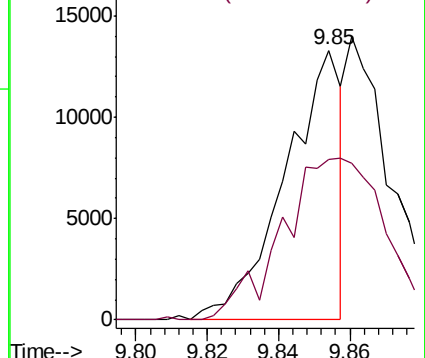
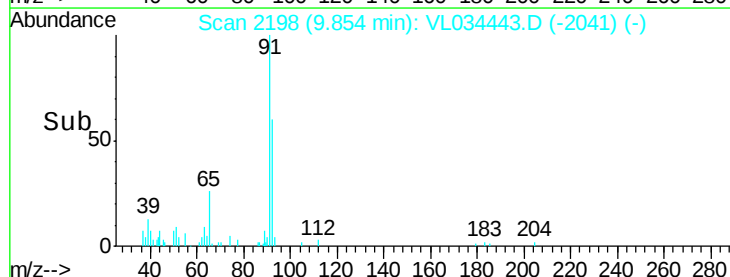
91 100

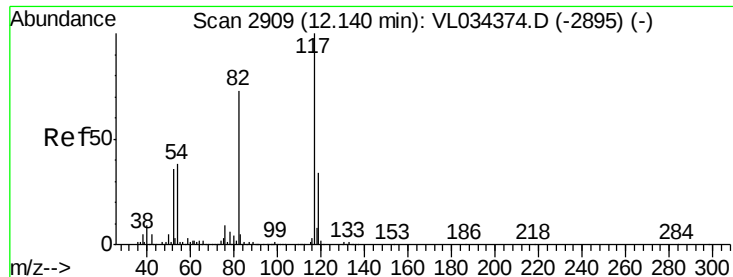
92 0.0 47.9 71.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

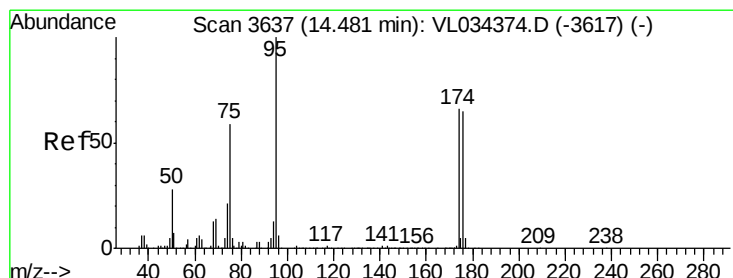
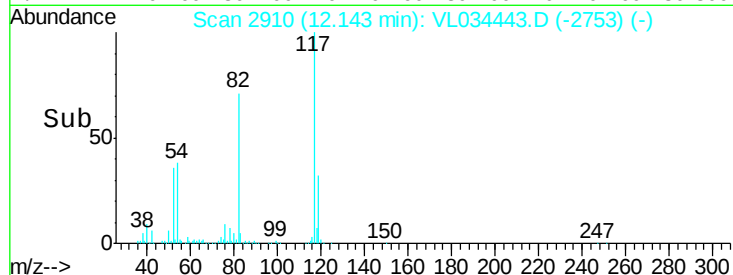
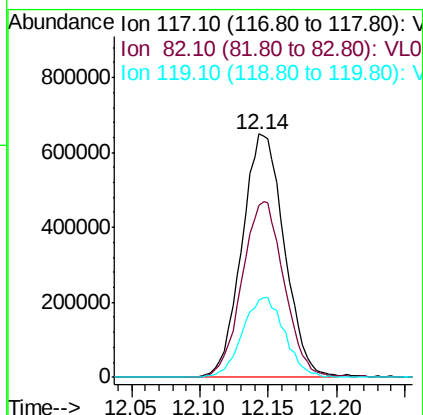
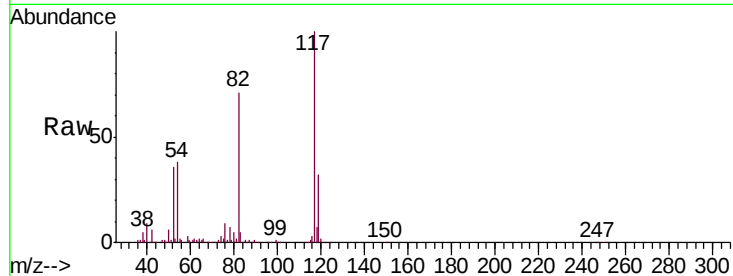




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034443.D
Acq: 3 Dec 2019 1:55

Instrument :
MSVOA_L
ClientSampleId :
IA-1ADL

Tgt Ion: 117 Resp: 1398502
Ion Ratio Lower Upper
117 100
82 72.2 57.5 86.3
119 32.7 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.298 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.00 min
Lab File: VL034443.D
Acq: 3 Dec 2019 1:55

Tgt Ion: 95 Resp: 1211647
Ion Ratio Lower Upper
95 100
174 64.4 52.2 78.2
175 4.7 3.8 5.8

