

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034525.D
 Acq On : 30 Dec 2019 23:47
 Operator : SY/AP
 Sample : K6388-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Quant Time: Dec 31 05:02:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

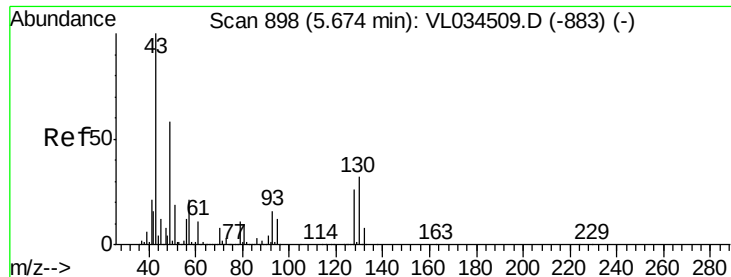
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	979004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1965306	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1911943	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1619092	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	7524	0.049	ppbv #	83
3) Chlorodifluoromethane	2.96	51	4614	0.040	ppbv #	86
7) Chloroethane	3.54	64	2761	0.117	ppbv #	70
11) Trichlorofluoromethane	3.93	101	8144	0.046	ppbv #	76
12) 1,1,2-Trichlorotrifluoroet	4.47	101	14176	0.125	ppbv	98
13) Ethanol	3.59	45	1015	0.081	ppbv #	38
15) Acetone	3.84	43	57715	0.404	ppbv	100
18) 1,1-Dichloroethene	4.27	96	3675	0.074	ppbv #	78
19) Isopropyl Alcohol	3.97	45	8131	0.088	ppbv #	95
20) Methylene Chloride	4.34	84	5052	0.090	ppbv	94
24) 1,1-Dichloroethane	5.00	63	150932	1.139	ppbv #	95
30) Cyclohexane	7.17	84	2650	0.038	ppbv #	1
32) 1,1,1-Trichloroethane	6.52	97	1201160	7.113	ppbv	99
37) 1,2-Dichloroethane	6.52	62	95083	0.683	ppbv #	1
39) 1,2-Dichloropropane	7.19	63	576937	8.190	ppbv #	22

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

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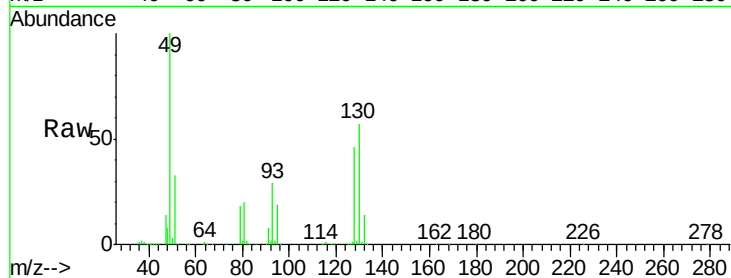
Tgt Ion: 49 Resp: 979004

Ion Ratio Lower Upper

49 100

128 43.9 22.4 67.2

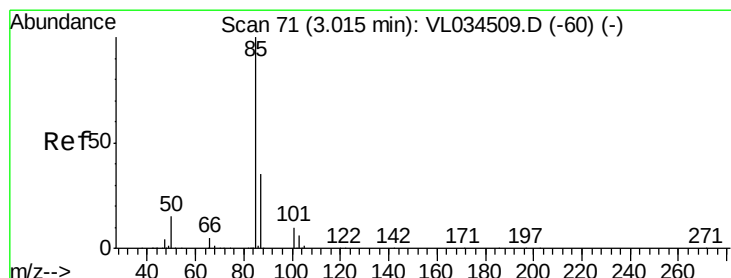
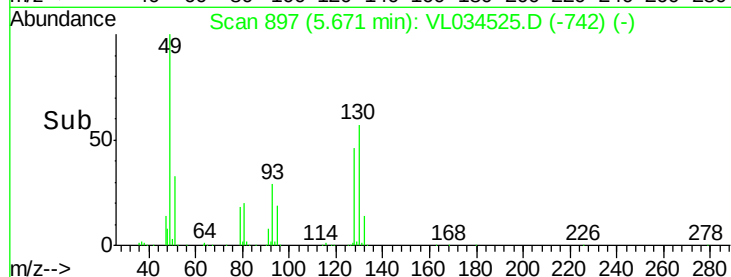
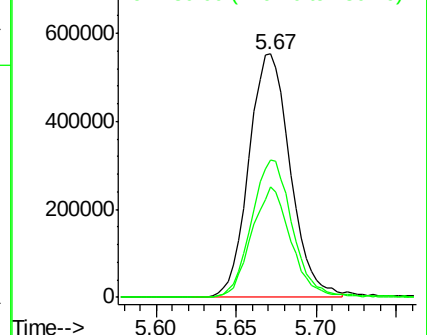
130 56.3 28.3 85.0



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: 0.049 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034525.D

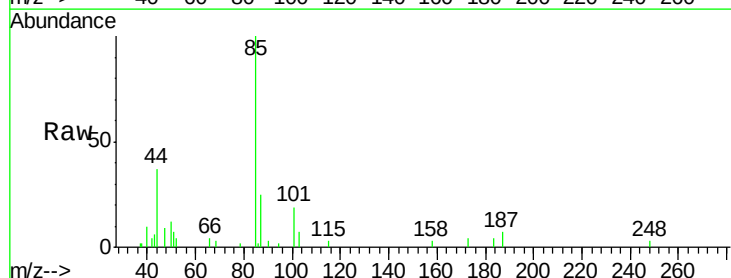
Acq: 30 Dec 2019 23:47

Tgt Ion: 85 Resp: 7524

Ion Ratio Lower Upper

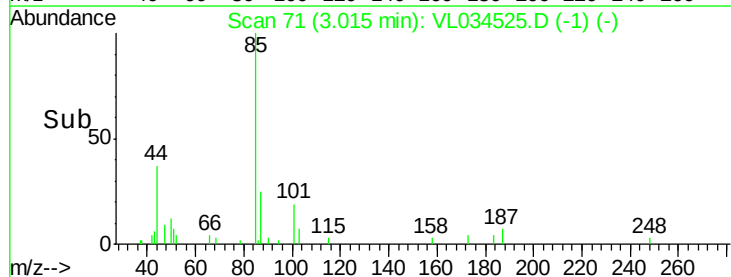
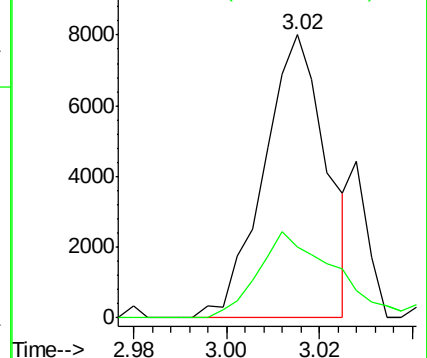
85 100

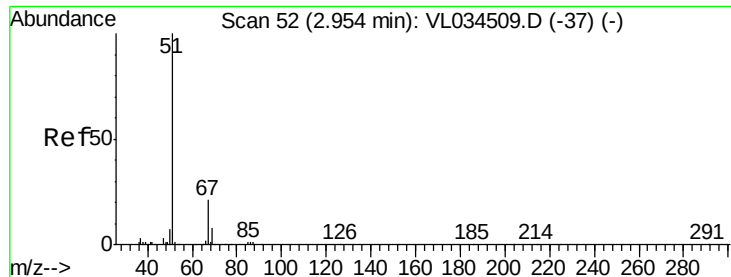
87 25.3 27.9 41.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.01 min

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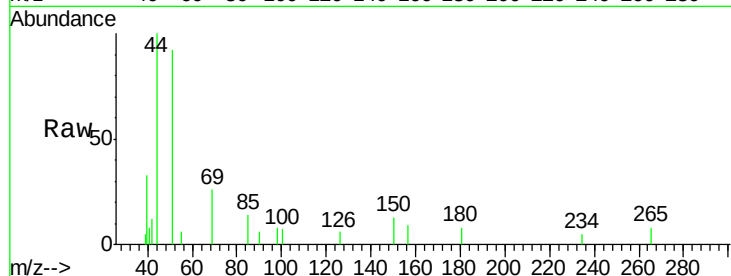
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Tgt Ion: 51 Resp: 4614

Ion Ratio Lower Upper

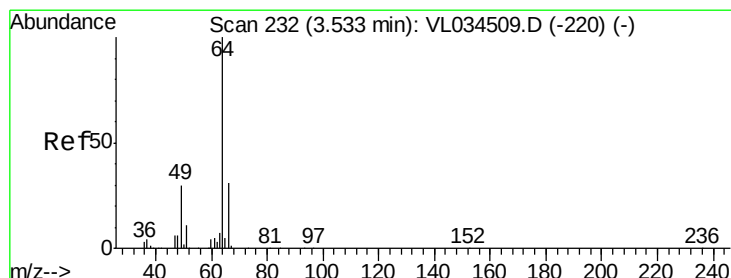
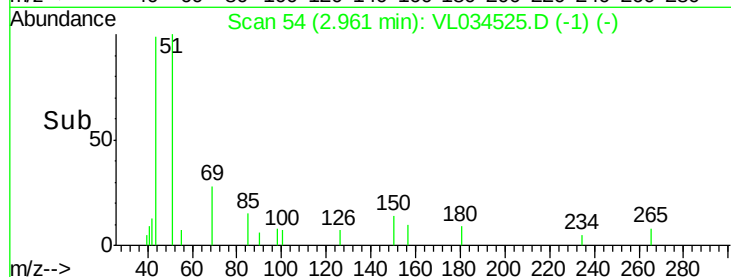
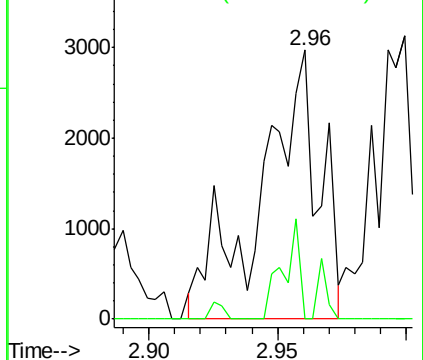
51 100

67 14.3 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.117 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL034525.D

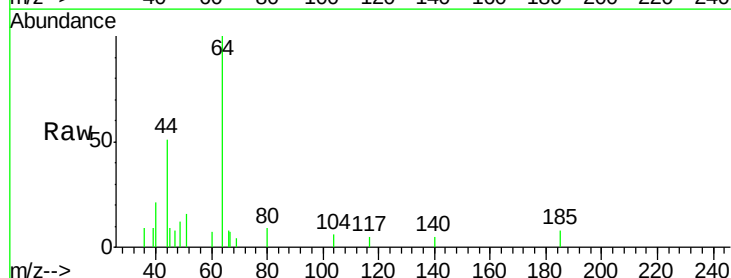
Acq: 30 Dec 2019 23:47

Tgt Ion: 64 Resp: 2761

Ion Ratio Lower Upper

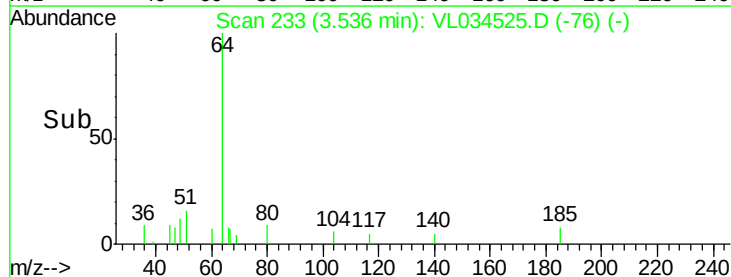
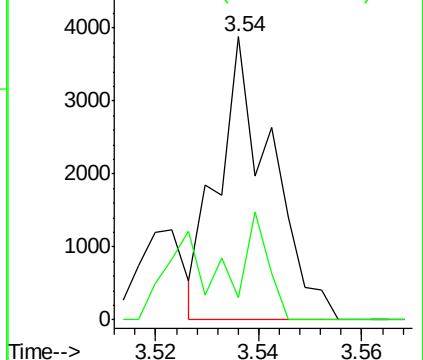
64 100

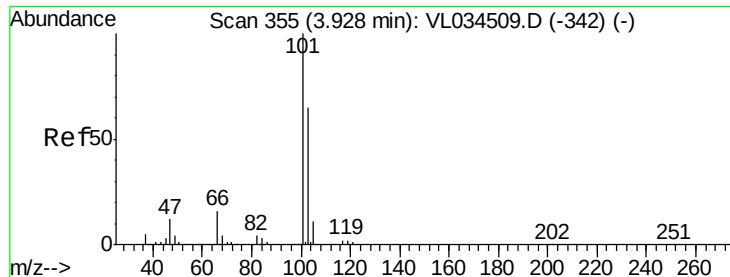
66 14.5 25.0 37.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

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ClientSampleId :

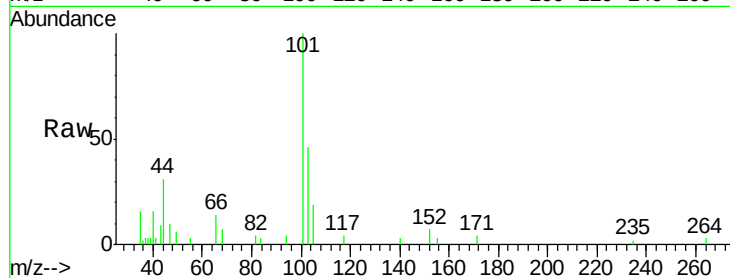
INFLUENTDL

Tgt Ion:101 Resp: 8144

Ion Ratio Lower Upper

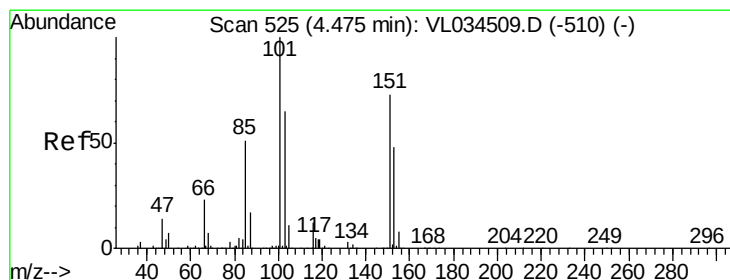
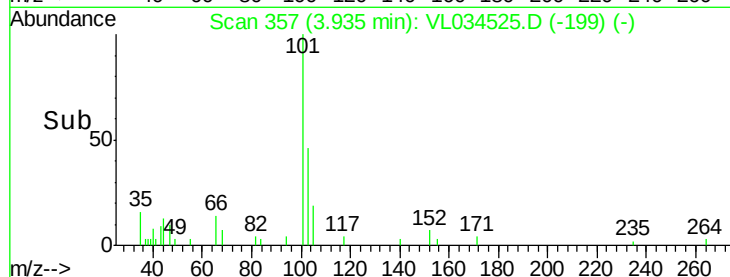
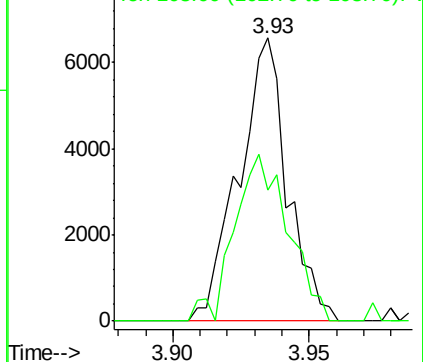
101 100

103 46.2 52.1 78.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.125 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL034525.D

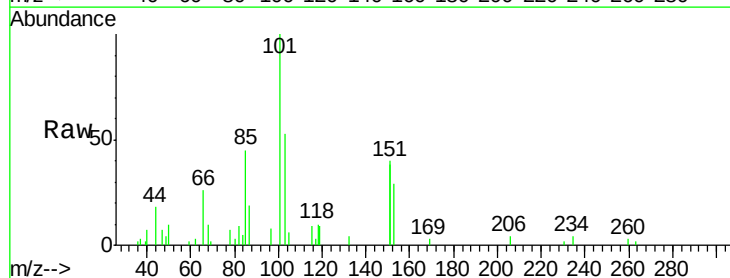
Acq: 30 Dec 2019 23:47

Tgt Ion:101 Resp: 14176

Ion Ratio Lower Upper

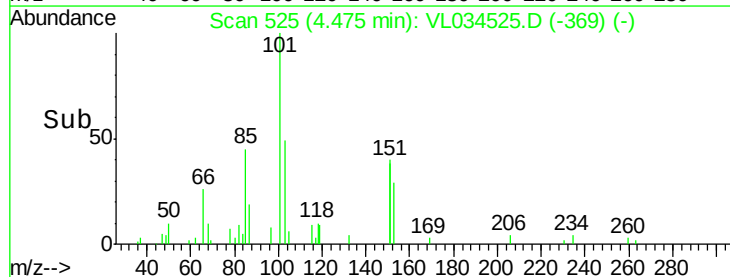
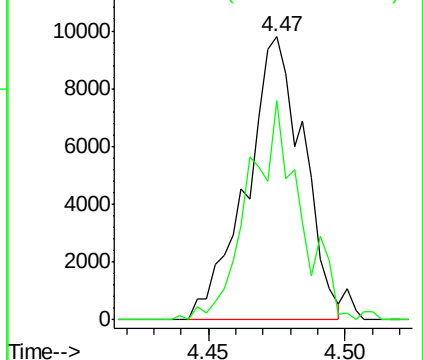
101 100

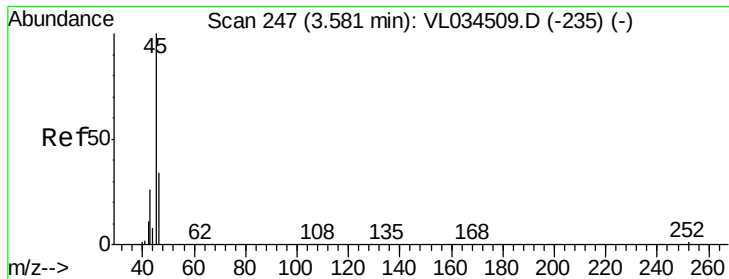
151 70.9 57.8 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

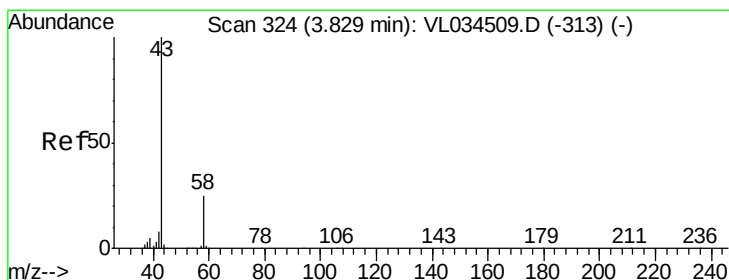
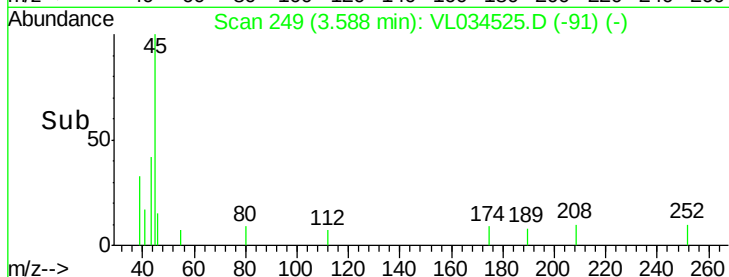
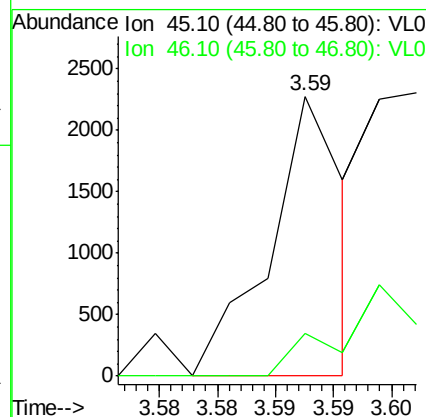
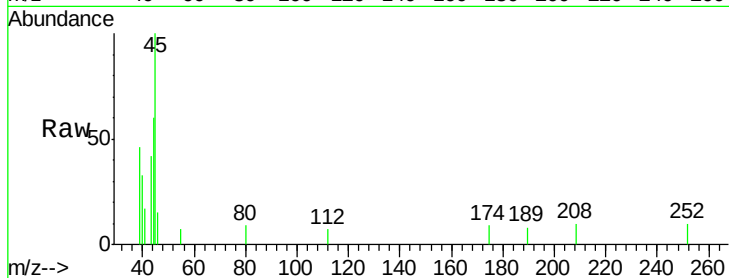




#13
Ethanol
Concen: 0.081 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.01 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

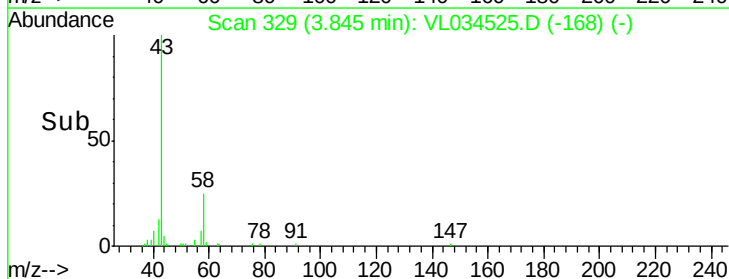
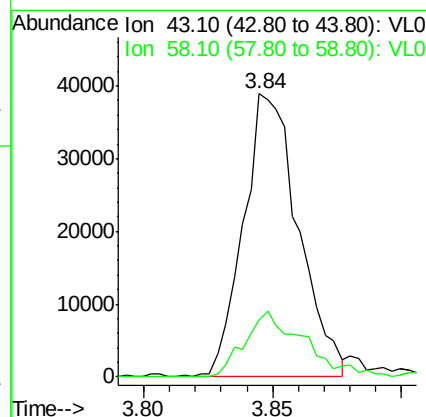
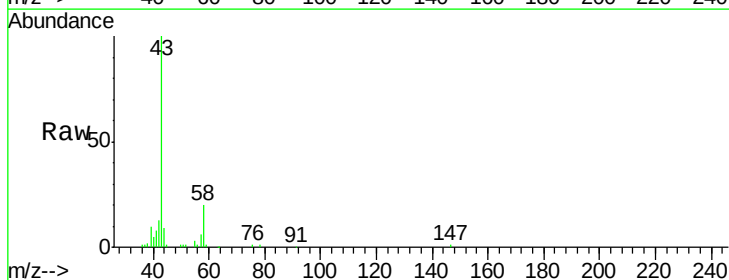
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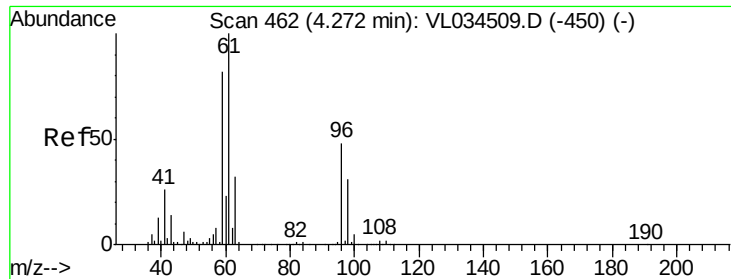
Tgt Ion: 45 Resp: 1015
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.7#



#15
Acetone
Concen: 0.404 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.02 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

Tgt Ion: 43 Resp: 57715
Ion Ratio Lower Upper
43 100
58 25.6 20.4 30.6

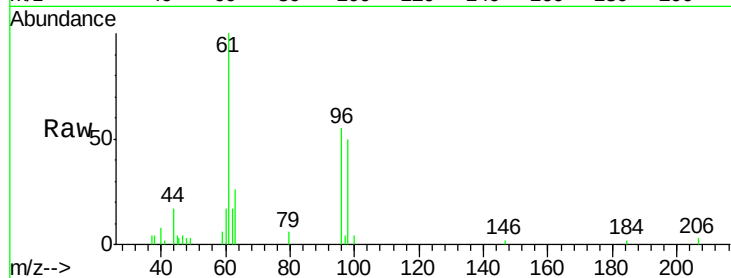




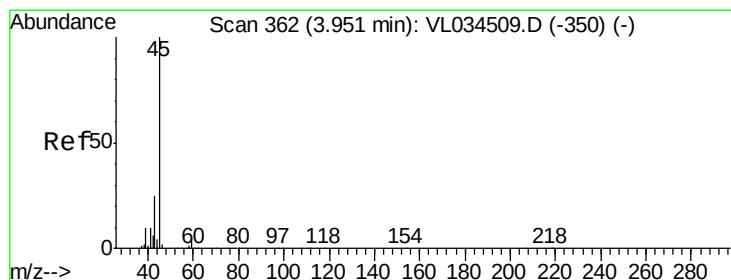
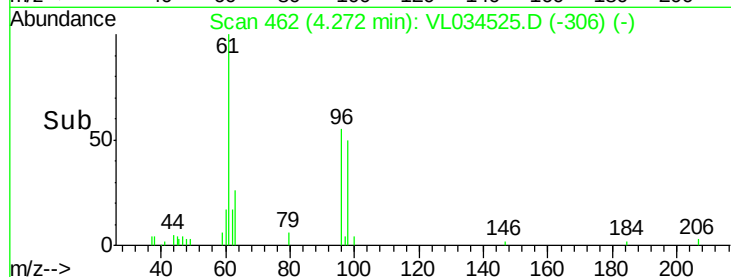
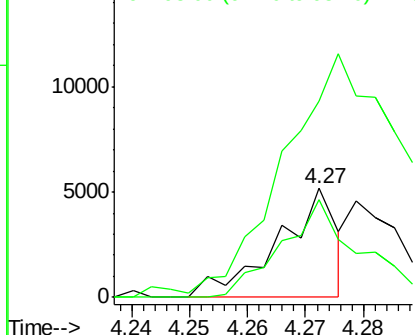
#18
 1,1-Dichloroethene
 Concen: 0.074 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. 0.00 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 96 Resp: 3675
 Ion Ratio Lower Upper
 96 100
 61 177.1 165.9 248.9
 98 89.9 51.9 77.9#

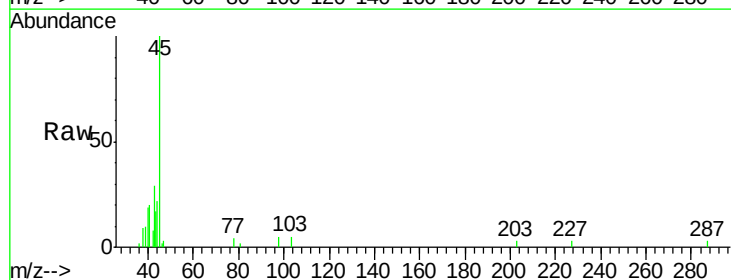


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

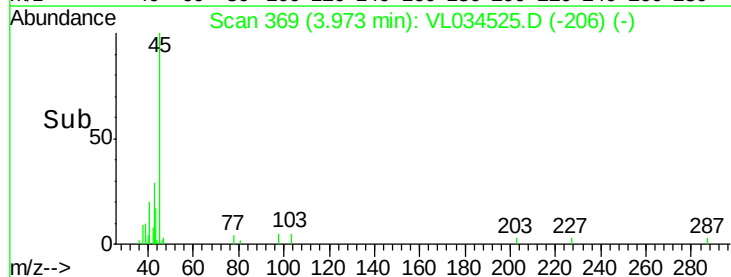
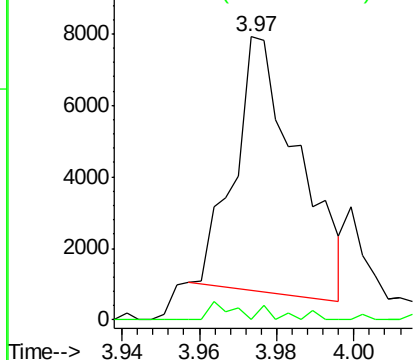


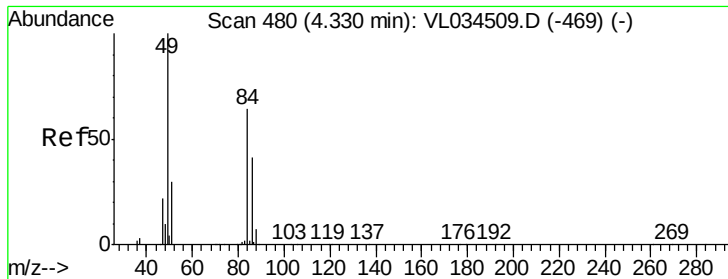
#19
 Isopropyl Alcohol
 Concen: 0.088 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

Tgt Ion: 45 Resp: 8131
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

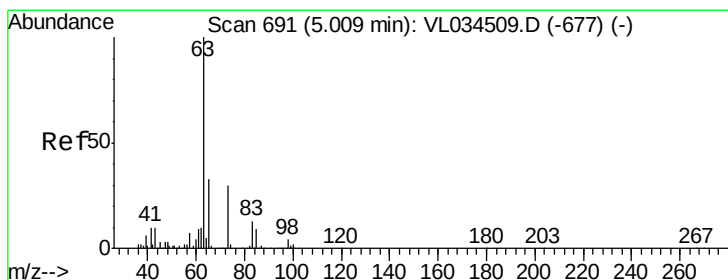
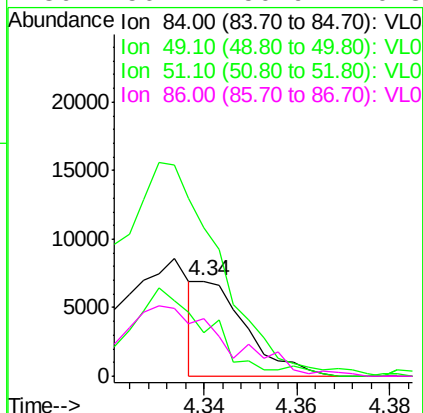
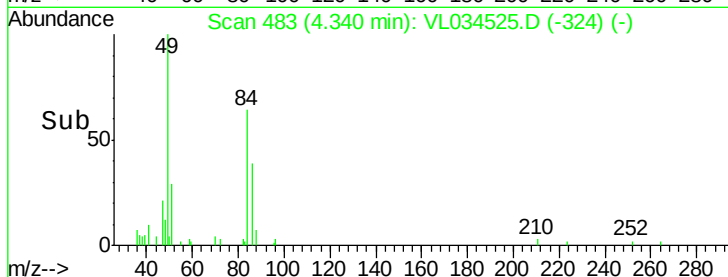
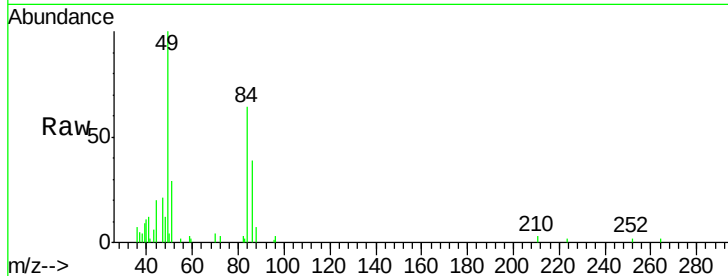




#20
Methylene Chloride
Concen: 0.090 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.01 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

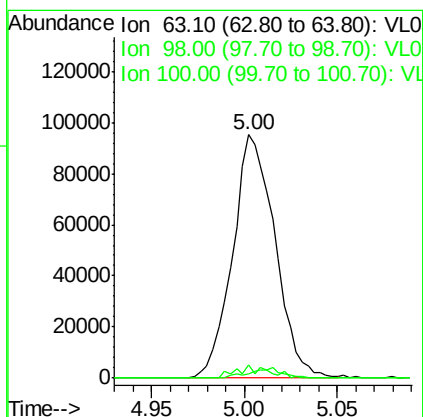
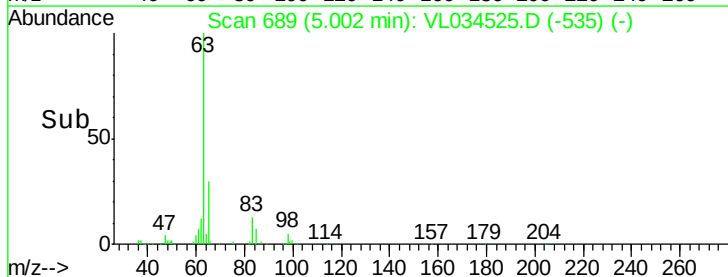
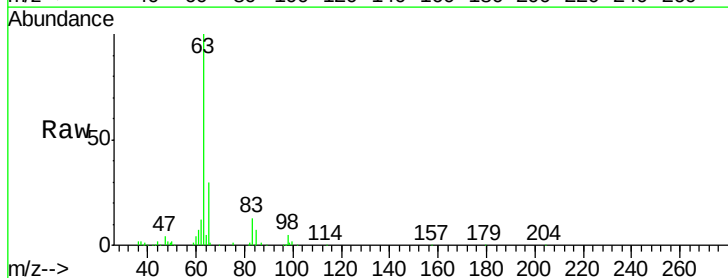
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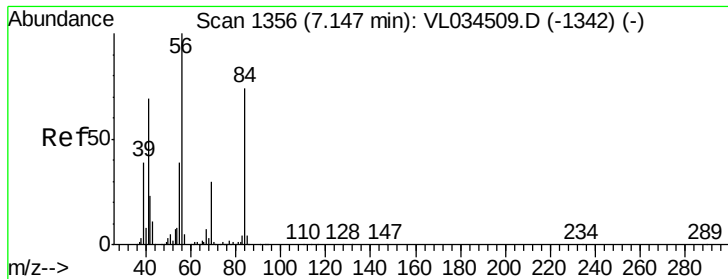
Tgt Ion:	84	Resp:	5052
Ion	Ratio	Lower	Upper
84	100		
49	148.0	124.4	186.6
51	46.2	37.0	55.6
86	56.7	50.9	76.3



#24
1,1-Dichloroethane
Concen: 1.139 ppbv
RT: 5.00 min Scan# 689
Delta R.T. -0.01 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

Tgt Ion:	63	Resp:	150932
Ion	Ratio	Lower	Upper
63	100		
98	6.3	2.1	6.3#
100	1.6	1.1	3.3

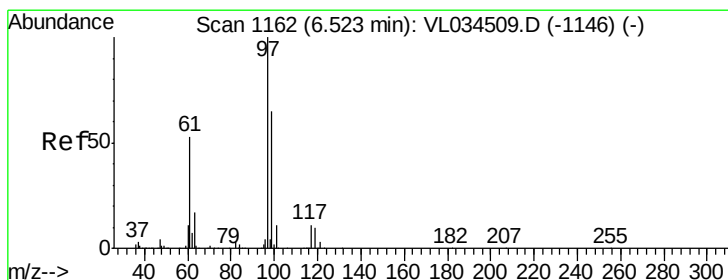
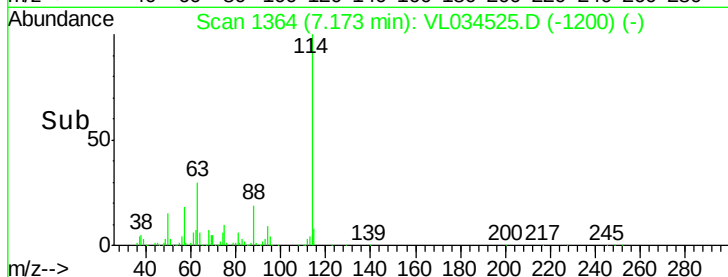
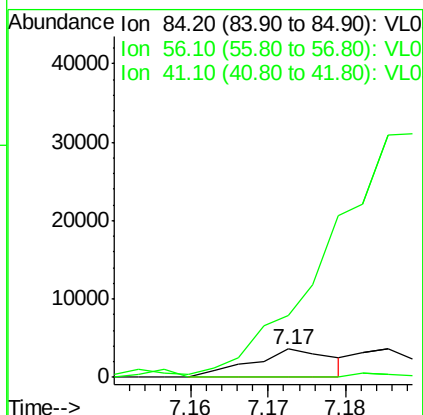
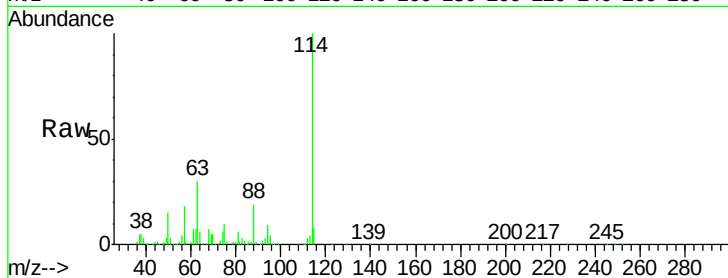




#30
Cyclohexane
Concen: 0.038 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.03 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

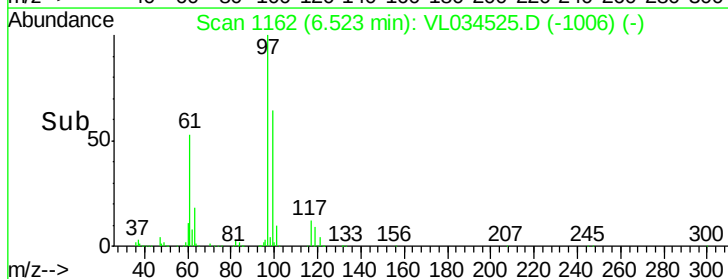
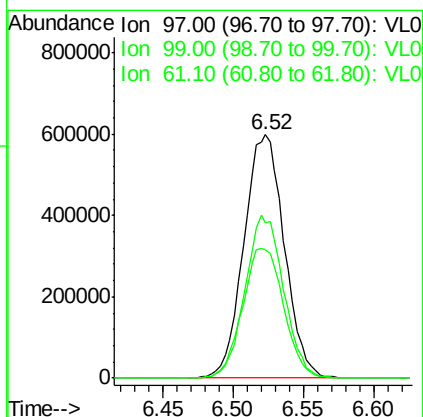
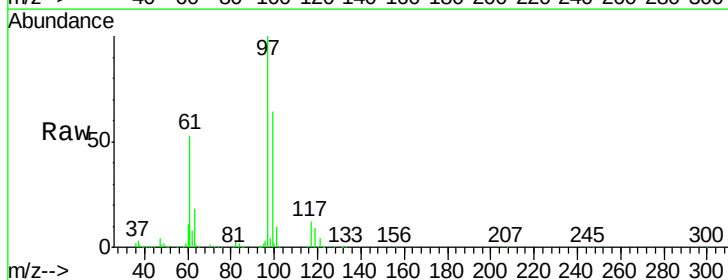
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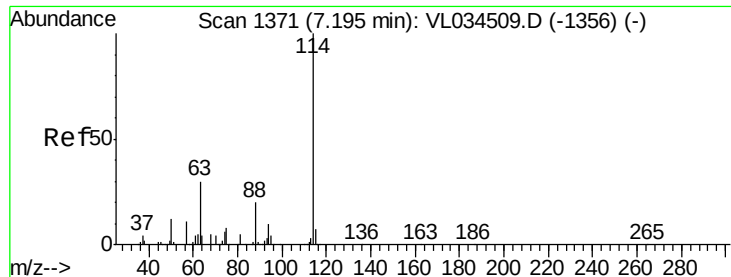
Tgt Ion: 84 Resp: 2650
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 17.4 73.0 109.4#



#32
1,1,1-Trichloroethane
Concen: 7.113 ppbv
RT: 6.52 min Scan# 1162
Delta R.T. 0.00 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

Tgt Ion: 97 Resp: 1201160
Ion Ratio Lower Upper
97 100
99 64.2 51.7 77.5
61 54.0 42.9 64.3

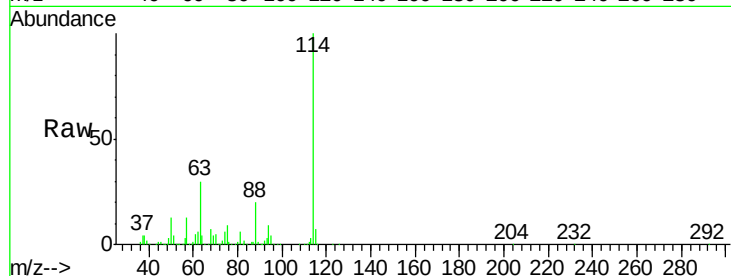




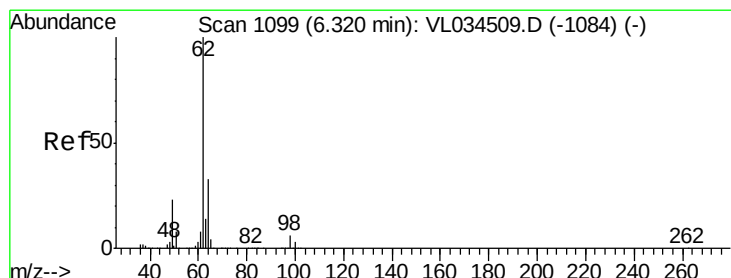
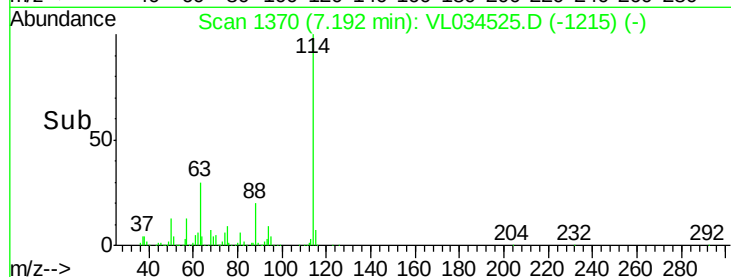
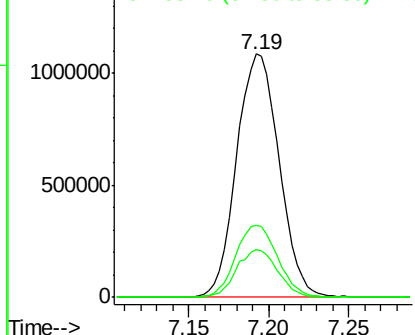
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

Instrument :
 MSVOA_L
 ClientSampleID :
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Tgt Ion: 114 Resp: 1965306
 Ion Ratio Lower Upper
 114 100
 63 29.5 24.1 36.1
 88 19.3 15.7 23.5

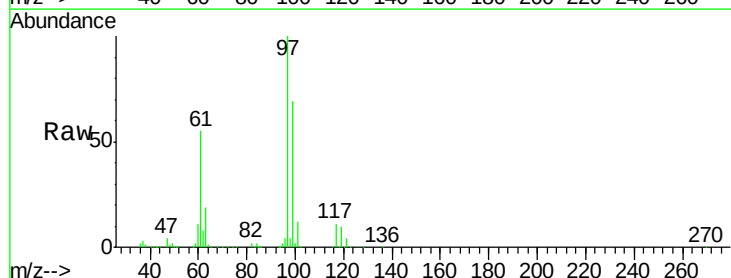


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

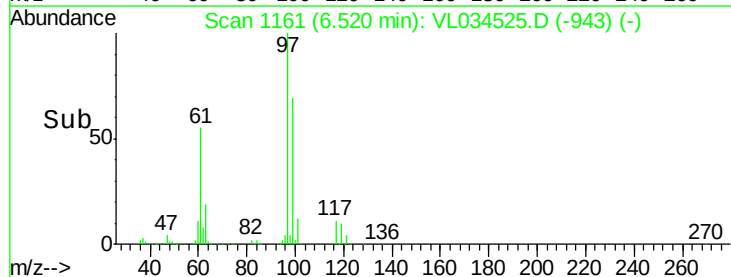
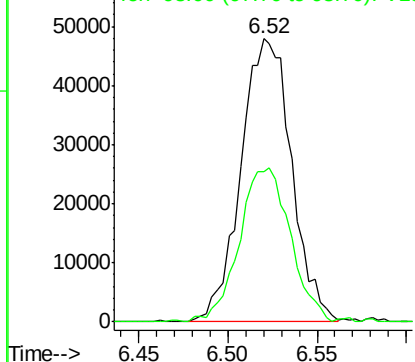


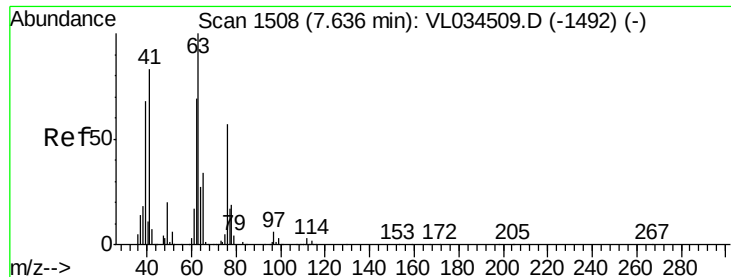
#37
 1,2-Dichloroethane
 Concen: 0.683 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.20 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

Tgt Ion: 62 Resp: 95083
 Ion Ratio Lower Upper
 62 100
 98 55.1 3.8 5.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

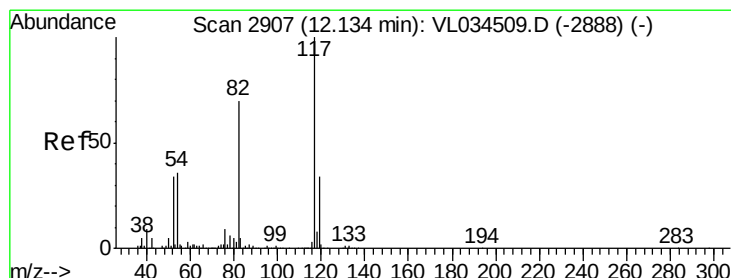
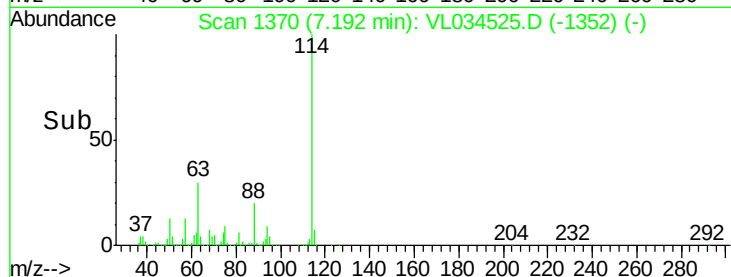
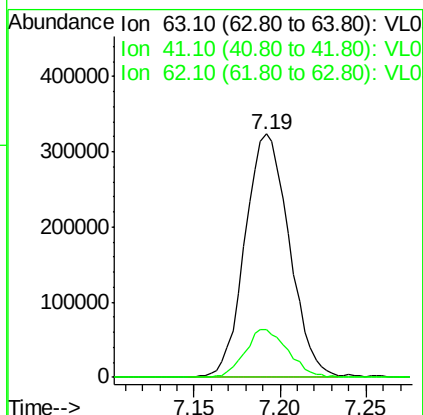
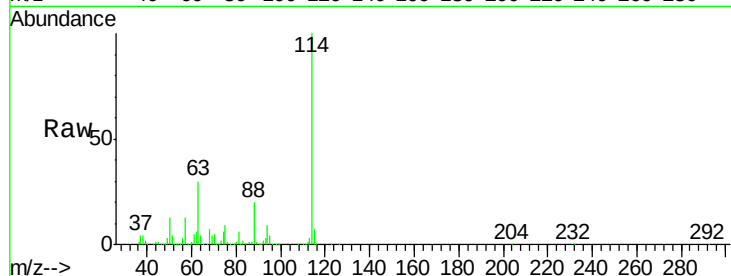




#39
 1,2-Dichloropropane
 Concen: 8.190 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.44 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

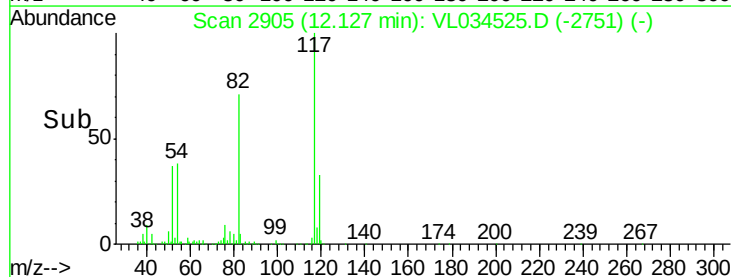
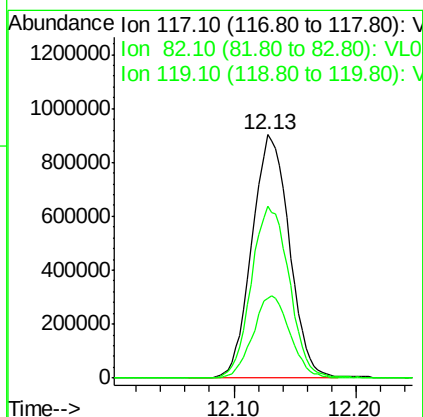
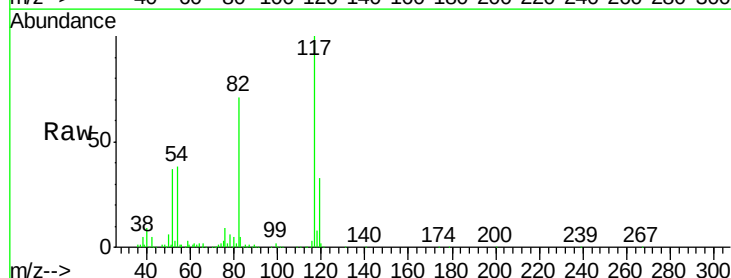
Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

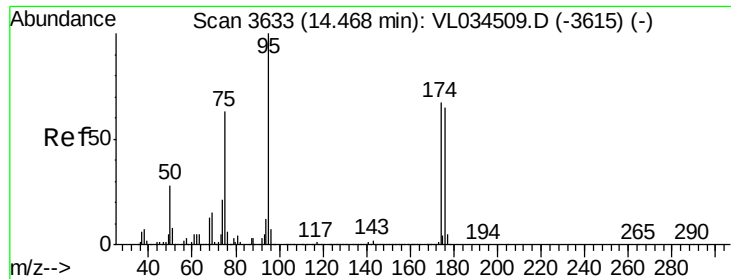
Tgt Ion: 63 Resp: 576937
 Ion Ratio Lower Upper
 63 100
 41 0.0 66.1 99.1#
 62 19.4 54.9 82.3#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.13 min Scan# 2905
 Delta R.T. -0.01 min
 Lab File: VL034525.D
 Acq: 30 Dec 2019 23:47

Tgt Ion: 117 Resp: 1911943
 Ion Ratio Lower Upper
 117 100
 82 71.7 56.2 84.4
 119 33.6 27.1 40.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.148 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tgt Ion: 95 Resp: 1619092

Ion Ratio Lower Upper

95 100

174 64.0 52.4 78.6

175 4.4 3.9 5.9

