

Data File : VL034613.D
Acq On : 7 Feb 2020 00:20
Operator : SY/AP
Sample : L1435-09
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Quant Time: Feb 07 07:40:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	918445	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.21	114	1903399	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.16	117	1817991	10.00	ppbv	0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.49 95 1565783 10.19 ppbv 0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.90%

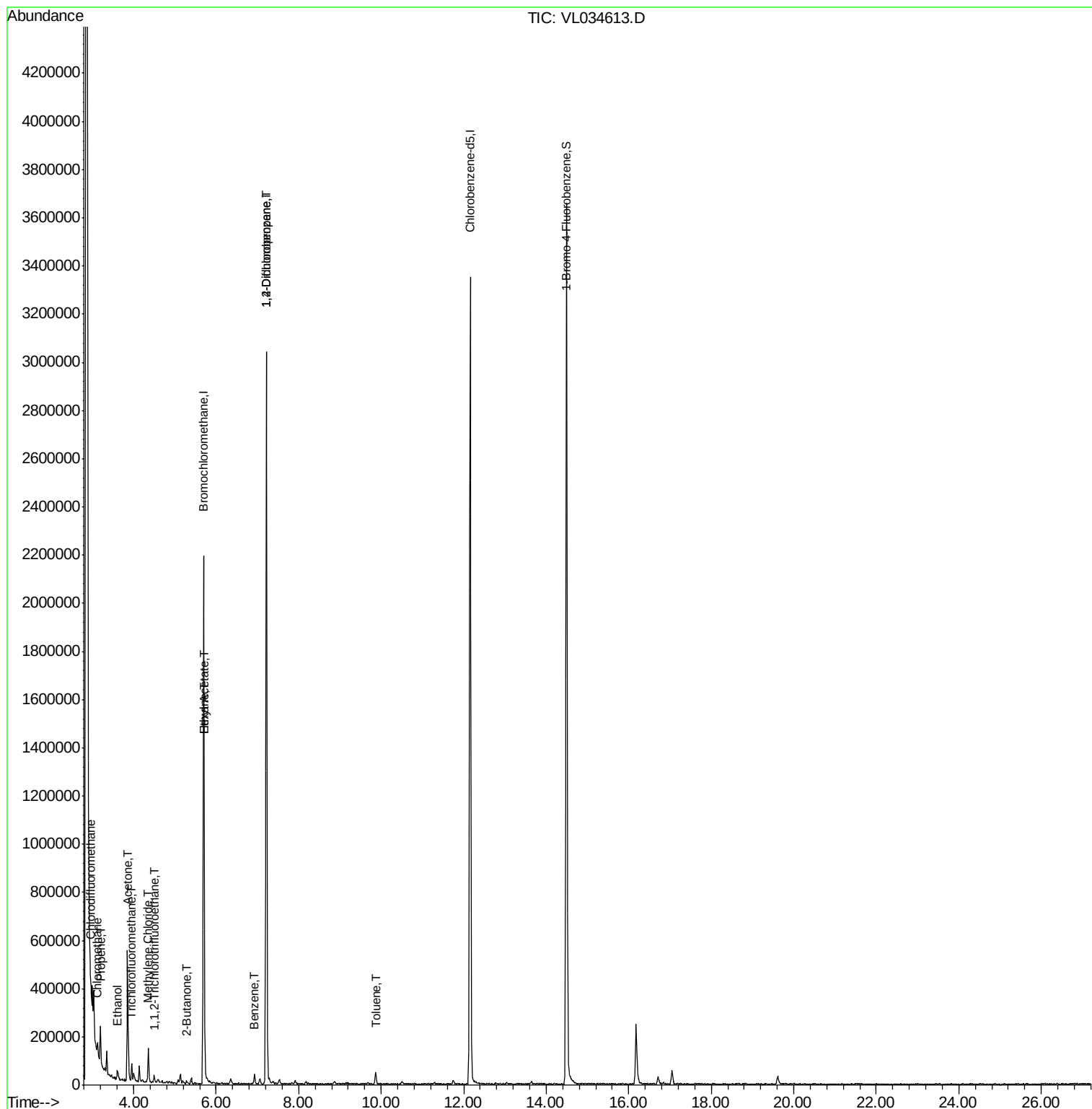
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.97	51	41590	0.375	ppbv	94
4) Chloromethane	3.12	50	33842	0.498	ppbv	94
9) Propene	3.19	41	30665	0.710	ppbv	90
11) Trichlorofluoromethane	3.95	101	44226	0.241	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6266	0.052	ppbv #	61
13) Ethanol	3.61	45	18710	1.617	ppbv #	38
15) Acetone	3.85	43	519641	3.850	ppbv	100
20) Methylene Chloride	4.36	84	40056	0.779	ppbv #	86
25) Ethyl Acetate	5.72	43	13803	0.063	ppbv #	77
26) Hexane	5.72	57	26700	0.292	ppbv #	36
34) 2-Butanone	5.29	43	7607	0.055	ppbv #	67
36) Benzene	6.93	78	14619	0.086	ppbv #	86
39) 1,2-Dichloropropane	7.21	63	563714	8.034	ppbv #	20
53) Toluene	9.86	91	34417	0.185	ppbv	100

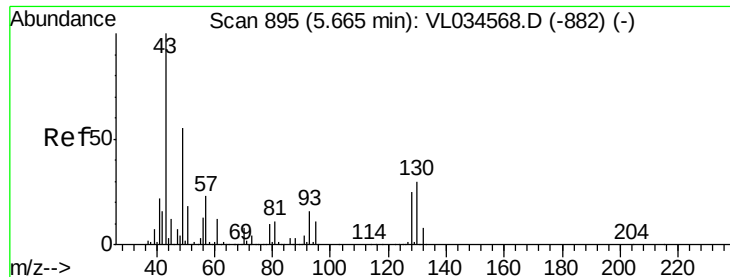
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

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ClientSampleId :

OA-1

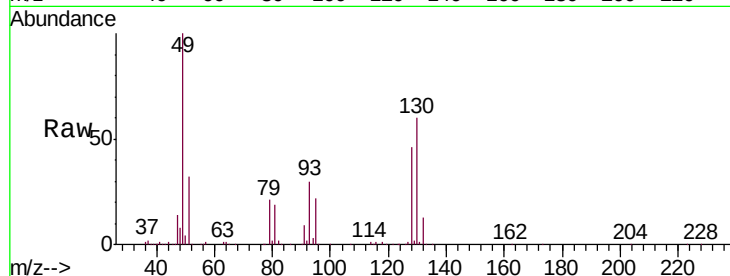
Tgt Ion: 49 Resp: 918445

Ion Ratio Lower Upper

49 100

128 46.8 22.7 68.1

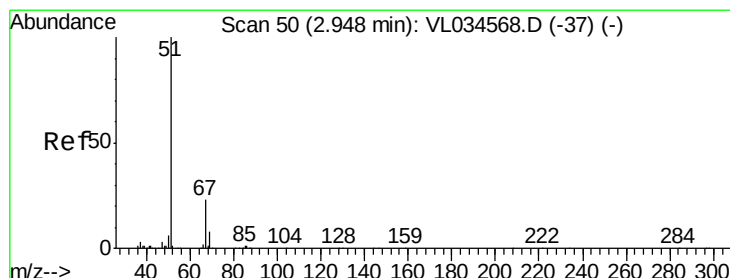
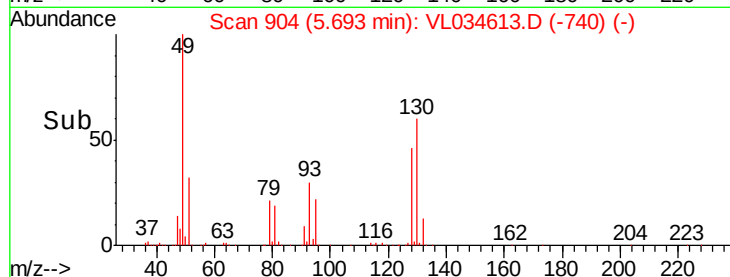
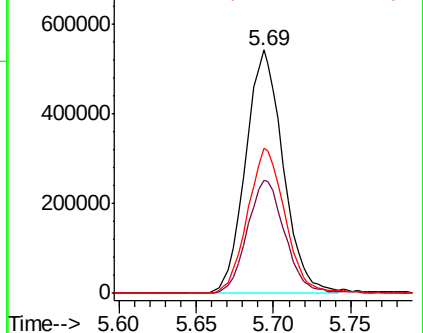
130 60.3 28.6 85.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.375 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.03 min

Lab File: VL034613.D

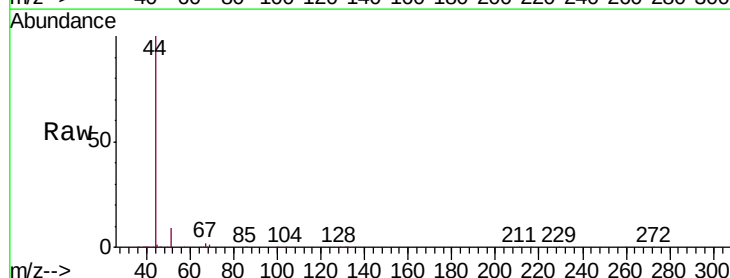
Acq: 7 Feb 2020 00:20

Tgt Ion: 51 Resp: 41590

Ion Ratio Lower Upper

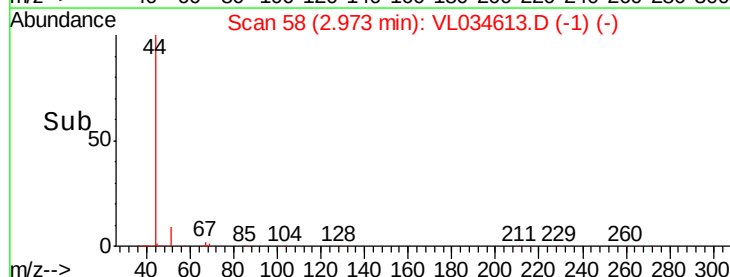
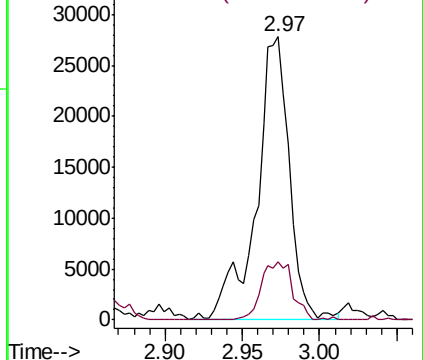
51 100

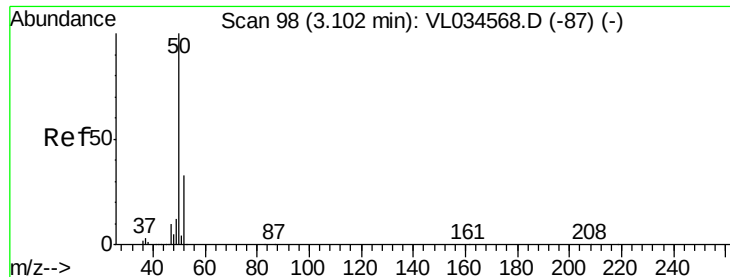
67 19.6 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.498 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.02 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

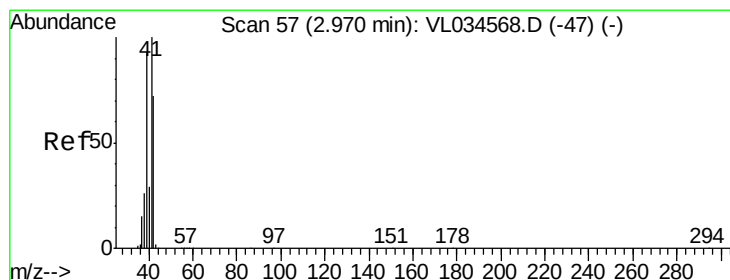
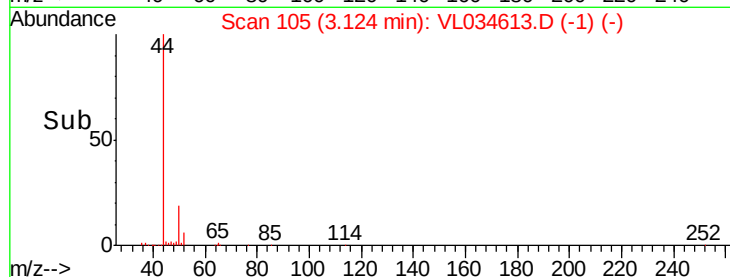
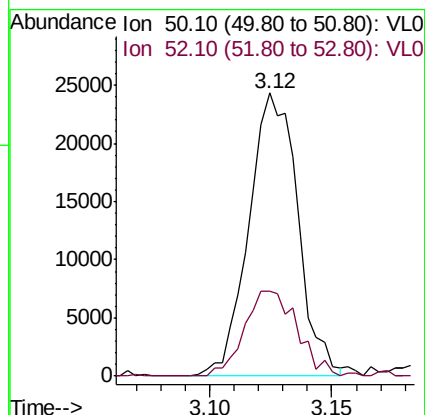
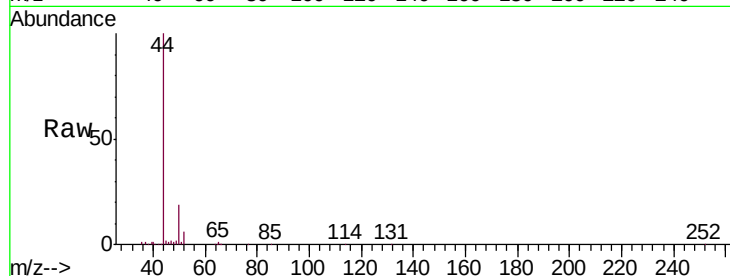
OA-1

Tgt Ion: 50 Resp: 33842

Ion Ratio Lower Upper

50 100

52 29.9 26.6 39.8



#9

Propene

Concen: 0.710 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.22 min

Lab File: VL034613.D

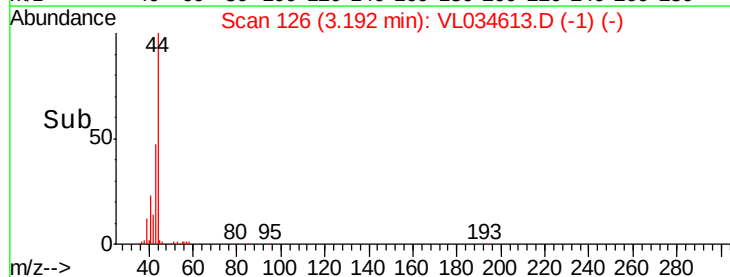
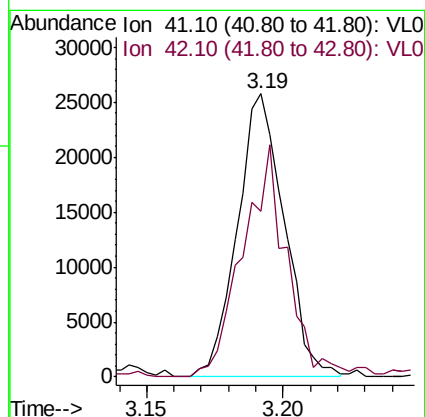
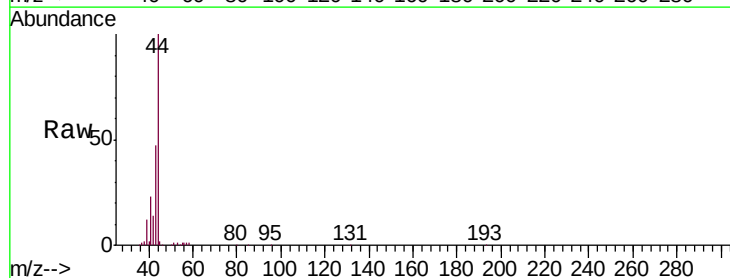
Acq: 7 Feb 2020 00:20

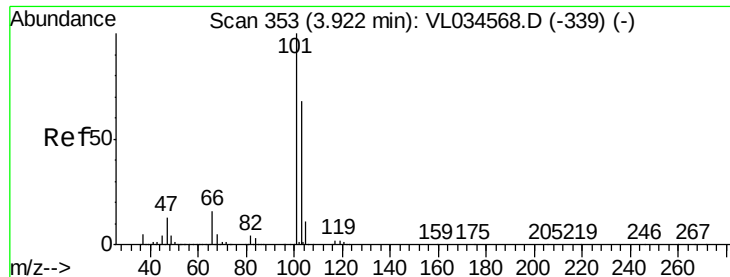
Tgt Ion: 41 Resp: 30665

Ion Ratio Lower Upper

41 100

42 79.6 57.0 85.4





#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.03 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampled :

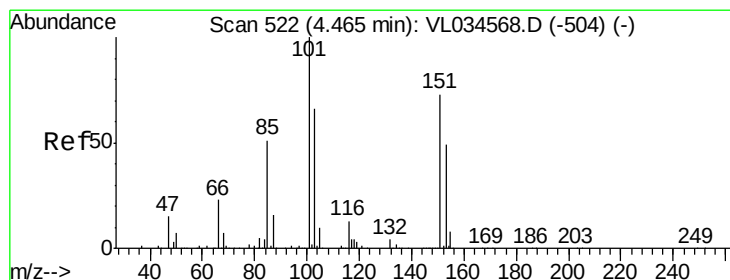
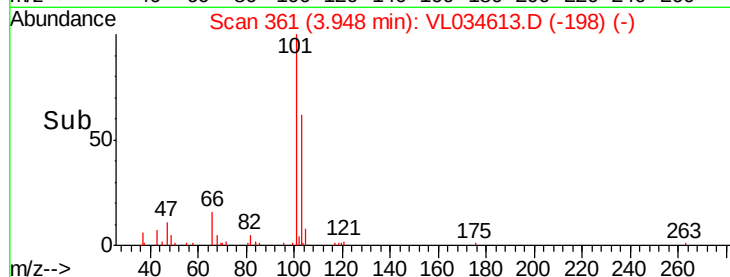
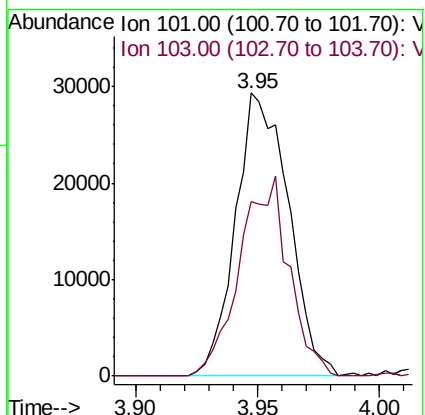
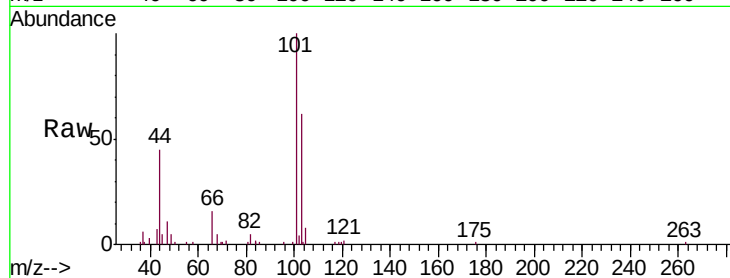
OA-1

Tgt Ion:101 Resp: 44226

Ion Ratio Lower Upper

101 100

103 61.6 54.4 81.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.052 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.03 min

Lab File: VL034613.D

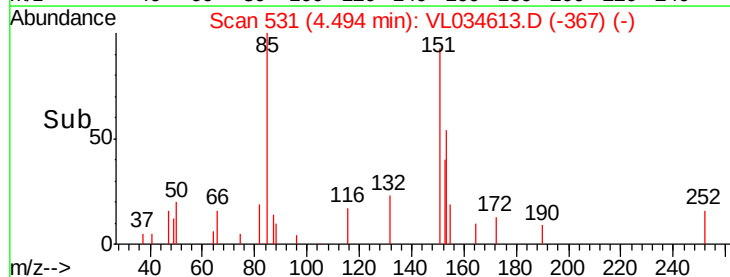
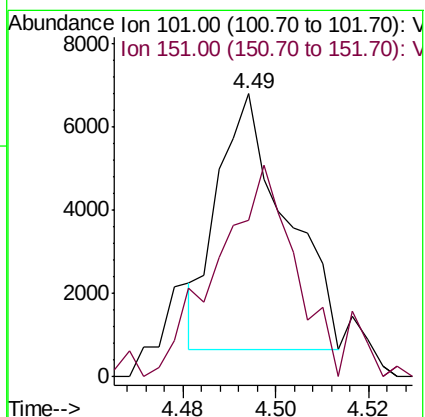
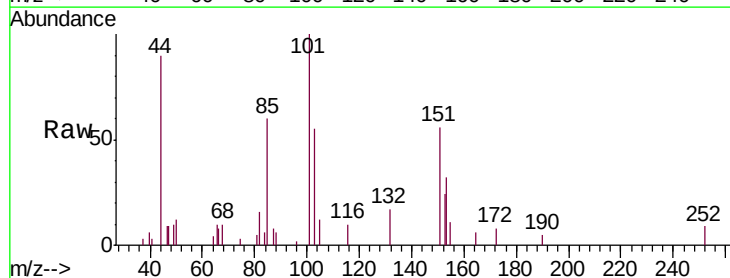
Acq: 7 Feb 2020 00:20

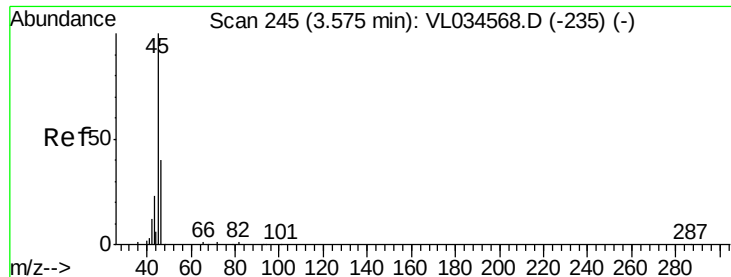
Tgt Ion:101 Resp: 6266

Ion Ratio Lower Upper

101 100

151 103.7 57.0 85.6#

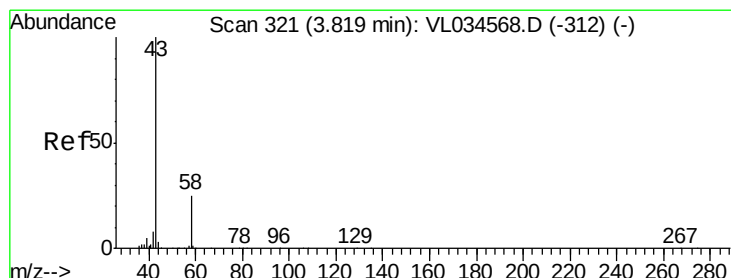
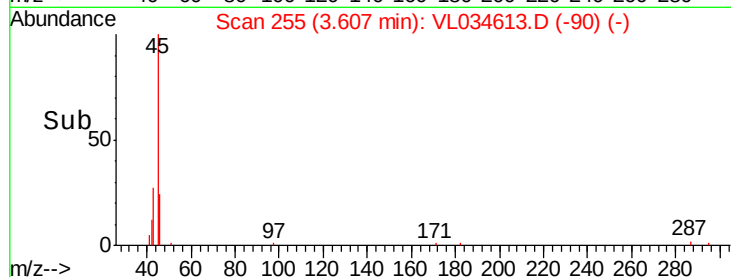
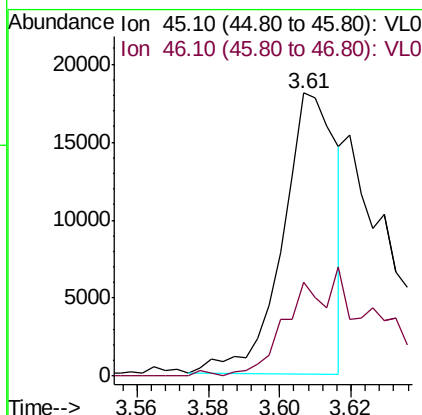
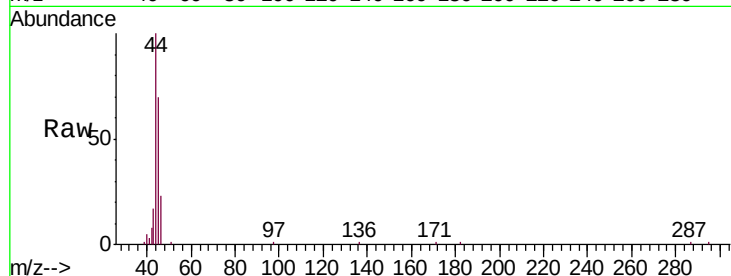




#13
Ethanol
Concen: 1.617 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.03 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

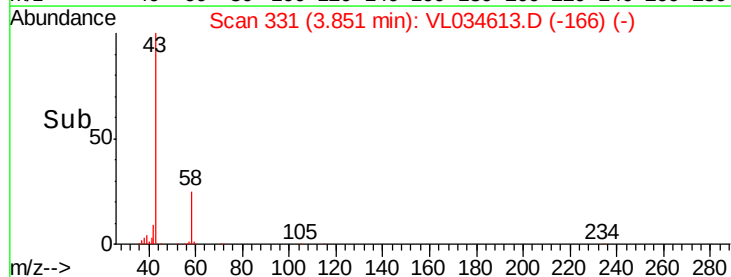
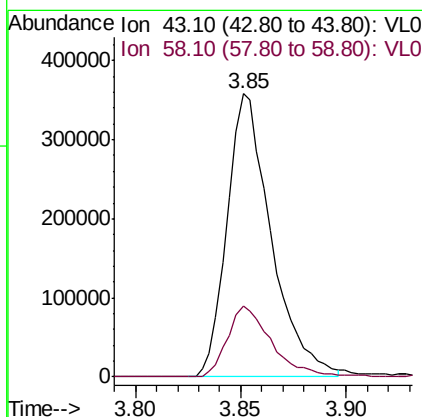
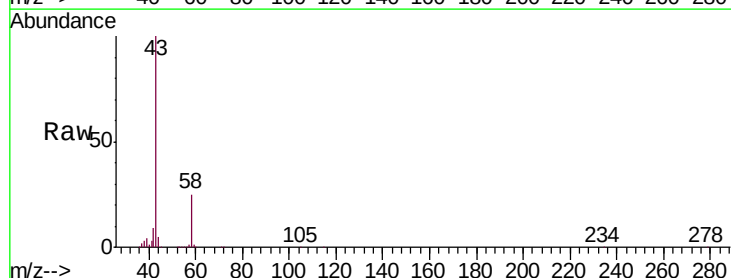
Instrument :
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ClientSampleId :
OA-1

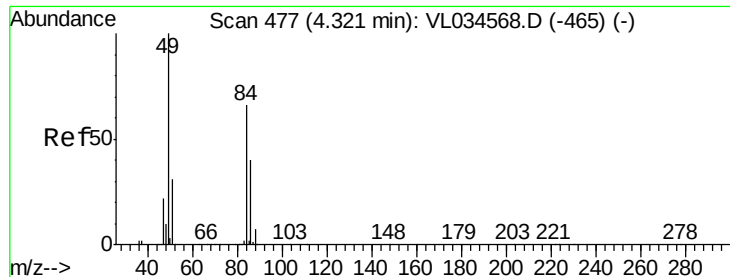
Tgt Ion: 45 Resp: 18710
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.2#



#15
Acetone
Concen: 3.850 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.03 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Tgt Ion: 43 Resp: 519641
Ion Ratio Lower Upper
43 100
58 25.3 20.3 30.5

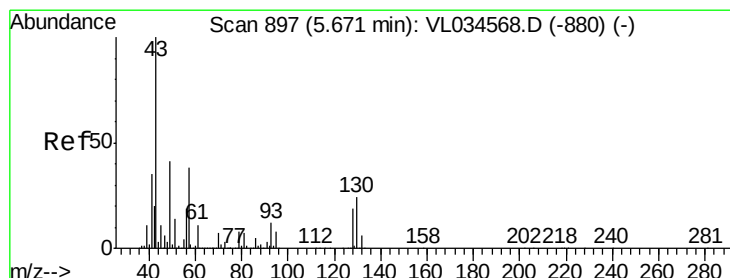
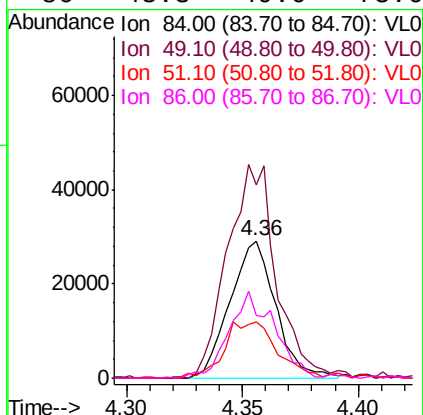
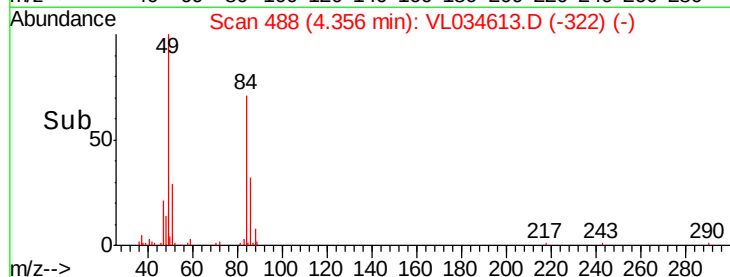
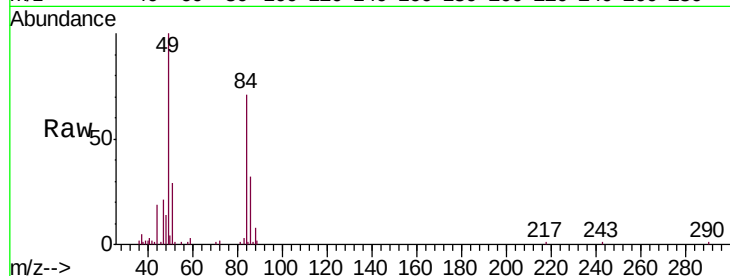




#20
Methylene Chloride
Concen: 0.779 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

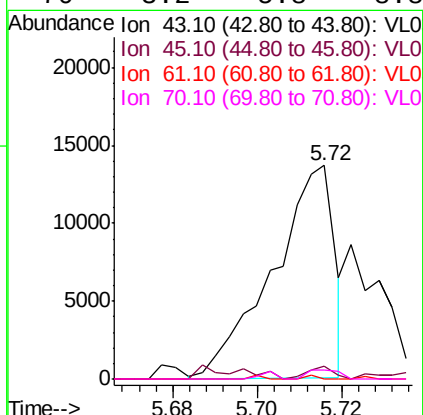
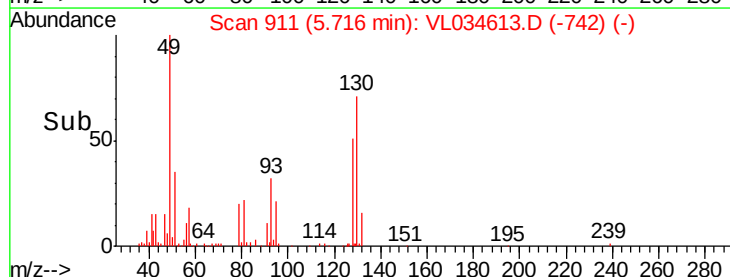
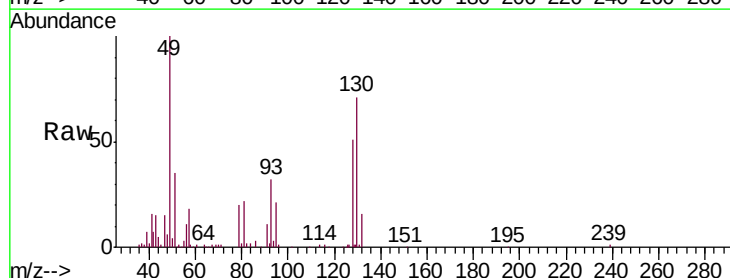
Instrument :
MSVOA_L
ClientSampleId :
OA-1

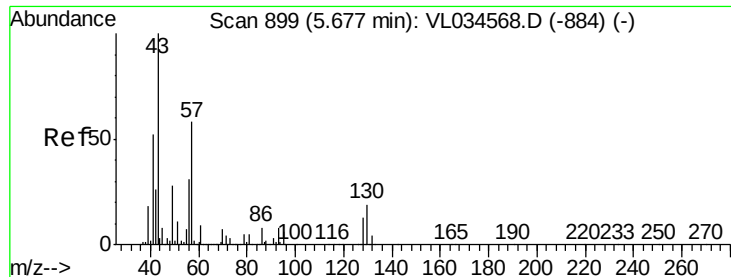
Tgt Ion:	84	Resp:	40056
Ion	Ratio	Lower	Upper
84	100		
49	140.9	122.4	183.6
51	38.0	38.6	57.8#
86	43.3	49.0	73.6#



#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Tgt Ion:	43	Resp:	13803
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.5	12.7#
61	0.7	7.8	11.6#
70	3.2	5.8	8.8#

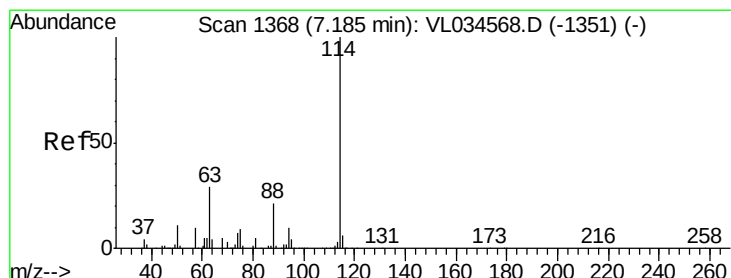
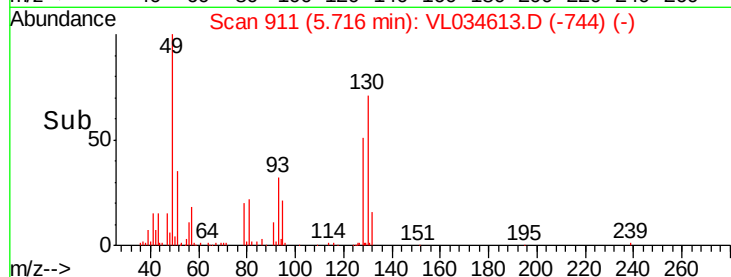
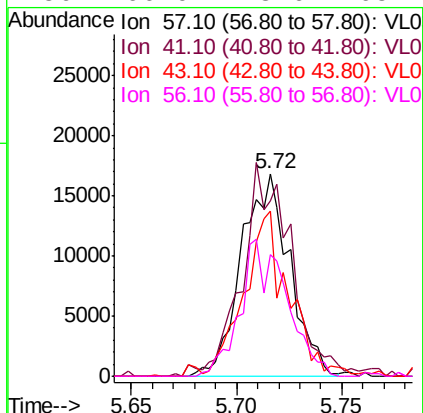
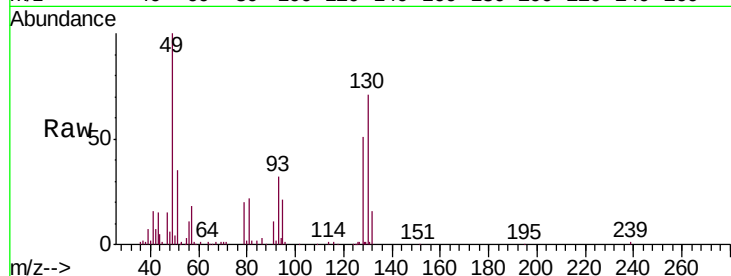




#26
Hexane
Concen: 0.292 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

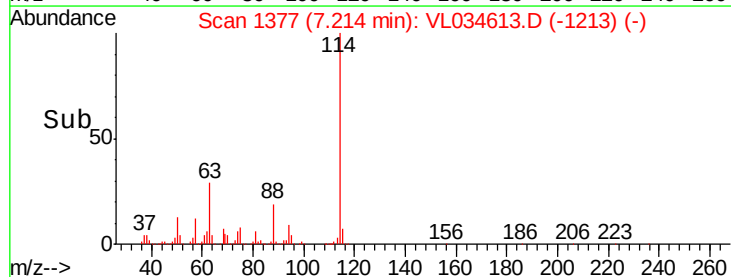
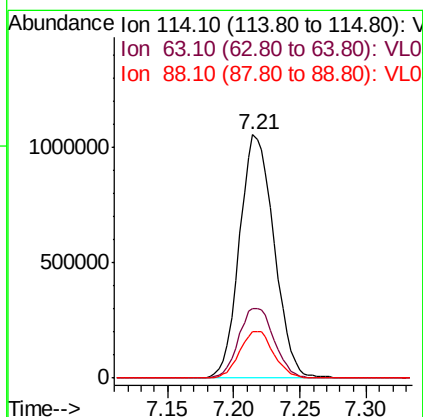
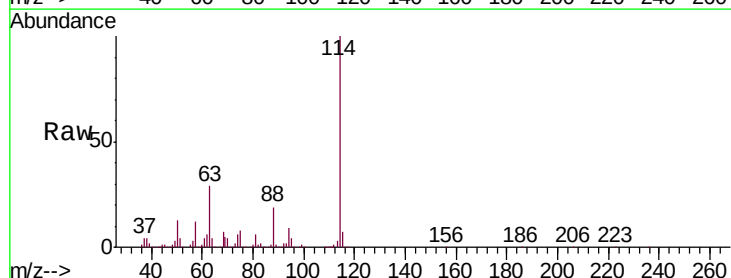
Instrument :
MSVOA_L
ClientSampleId :
OA-1

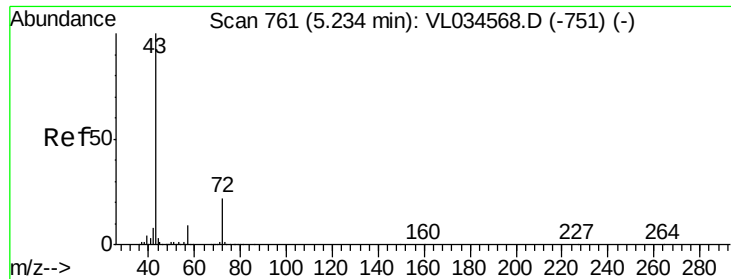
Tgt Ion: 57 Resp: 26700
Ion Ratio Lower Upper
57 100
41 109.5 76.2 114.2
43 77.4 189.9 284.9#
56 66.0 43.6 65.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. 0.03 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Tgt Ion: 114 Resp: 1903399
Ion Ratio Lower Upper
114 100
63 29.8 24.1 36.1
88 19.0 15.9 23.9

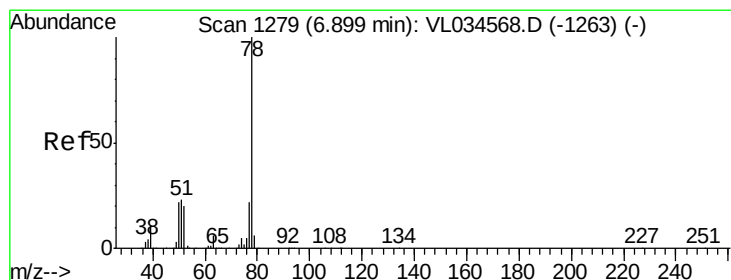
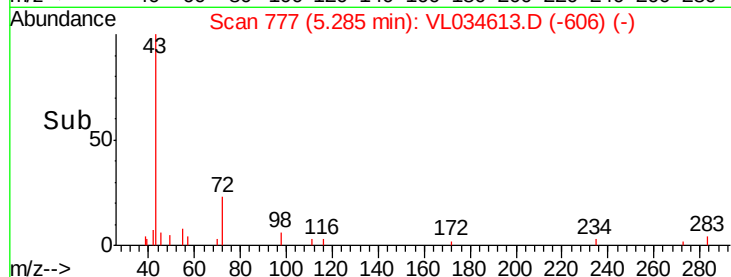
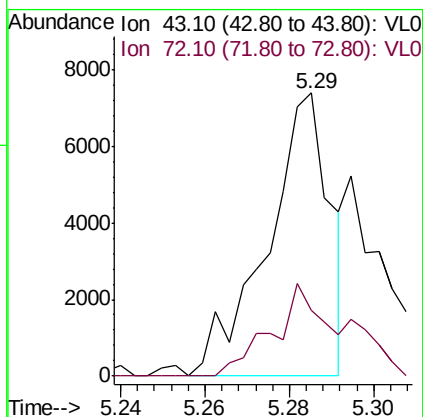
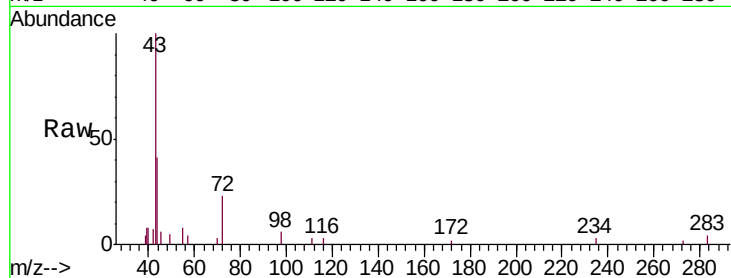




#34
2-Butanone
Concen: 0.055 ppbv
RT: 5.29 min Scan# 777
Delta R.T. 0.05 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

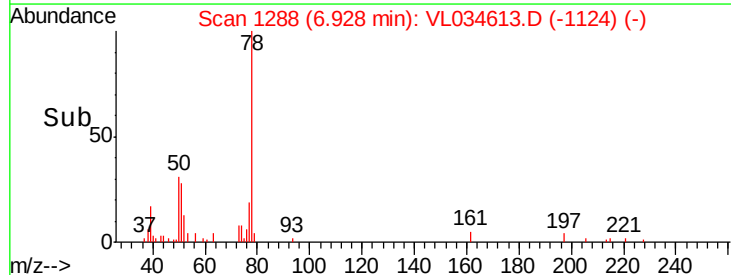
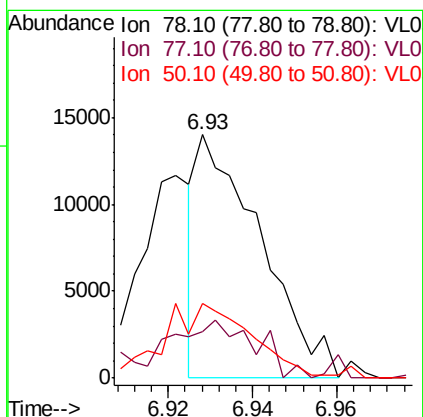
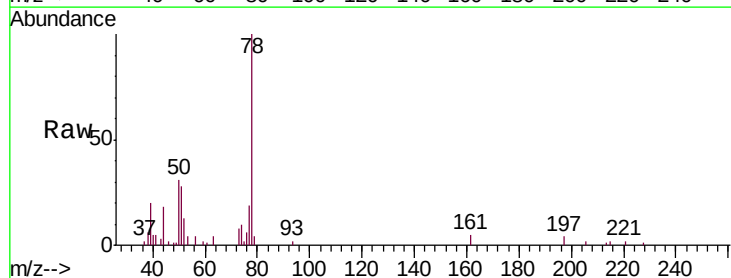
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OA-1

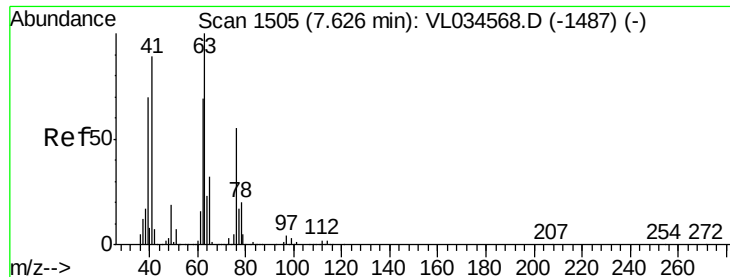
Tgt Ion: 43 Resp: 7607
Ion Ratio Lower Upper
43 100
72 37.0 17.2 25.8#



#36
Benzene
Concen: 0.086 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. 0.03 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Tgt Ion: 78 Resp: 14619
Ion Ratio Lower Upper
78 100
77 9.6 17.3 25.9#
50 23.5 17.4 26.2





#39

1,2-Dichloropropane

Concen: 8.034 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.41 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampled :

OA-1

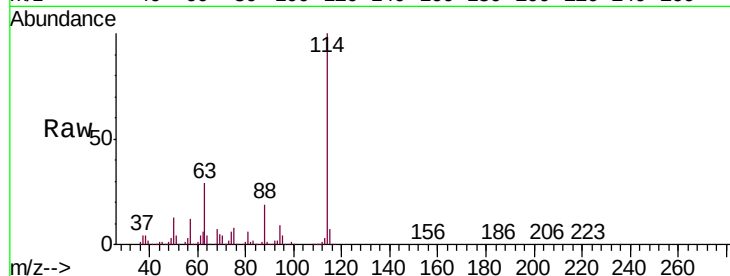
Tgt Ion: 63 Resp: 563714

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

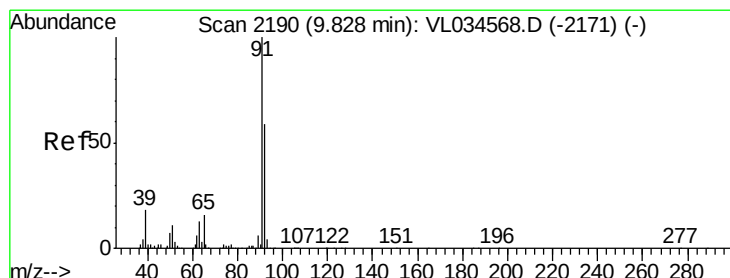
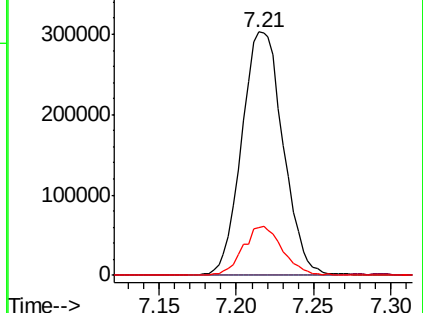
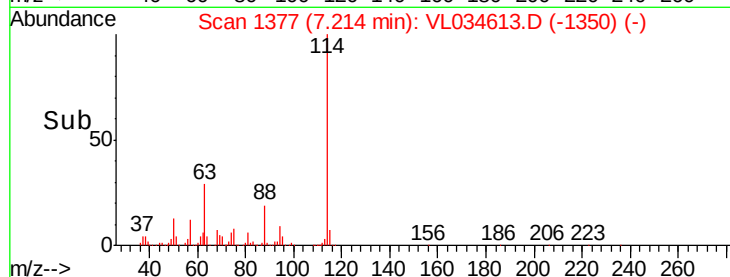
62 19.6 55.4 83.0#



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: 0.185 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.04 min

Lab File: VL034613.D

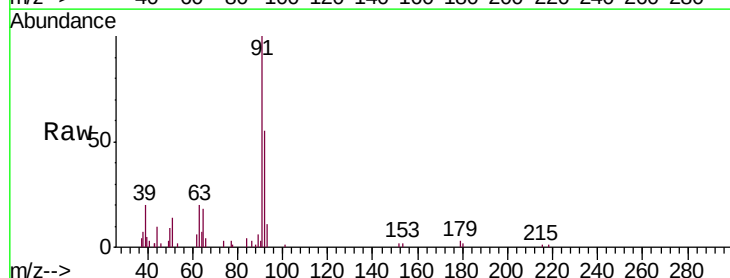
Acq: 7 Feb 2020 00:20

Tgt Ion: 91 Resp: 34417

Ion Ratio Lower Upper

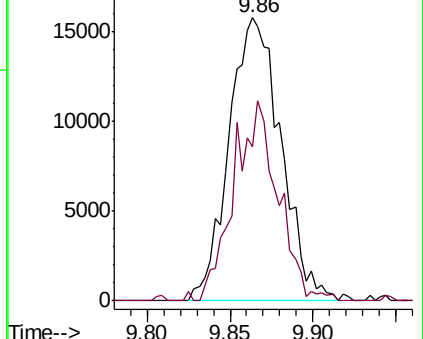
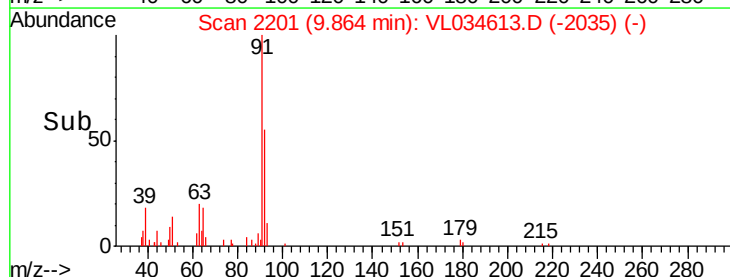
91 100

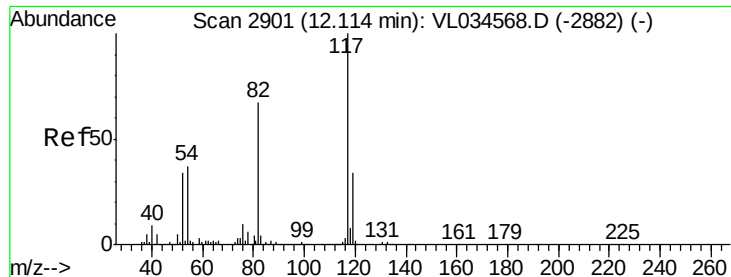
92 60.4 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

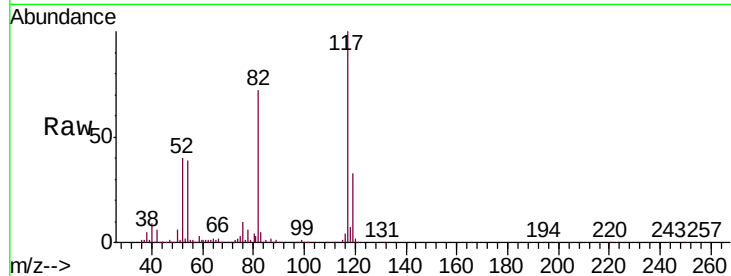




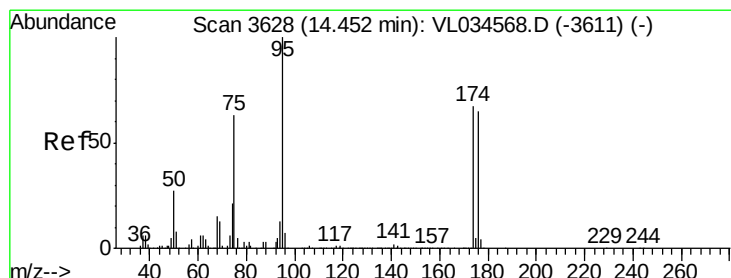
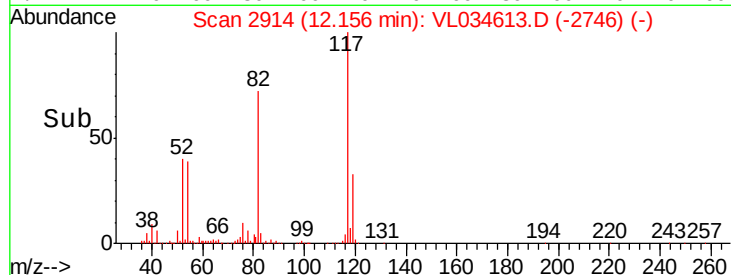
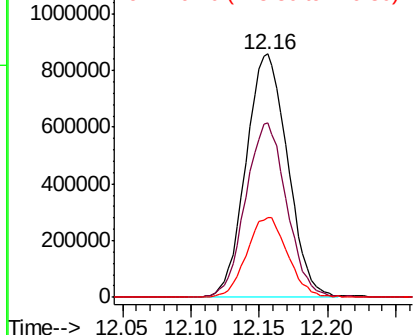
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tgt Ion: 117 Resp: 1817991
Ion Ratio Lower Upper
117 100
82 71.0 54.2 81.4
119 32.5 26.1 39.1

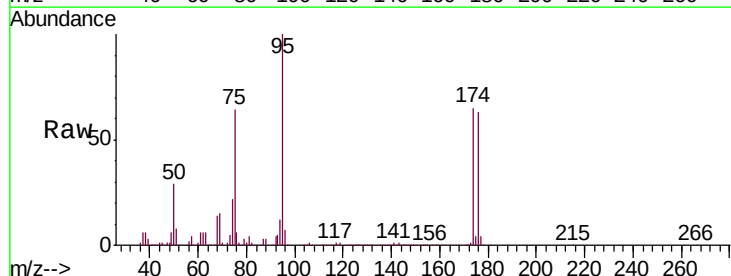


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.191 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Tgt Ion: 95 Resp: 1565783
Ion Ratio Lower Upper
95 100
174 63.4 52.3 78.5
175 4.6 3.8 5.6



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

