

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020620\
 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 08:17:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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%

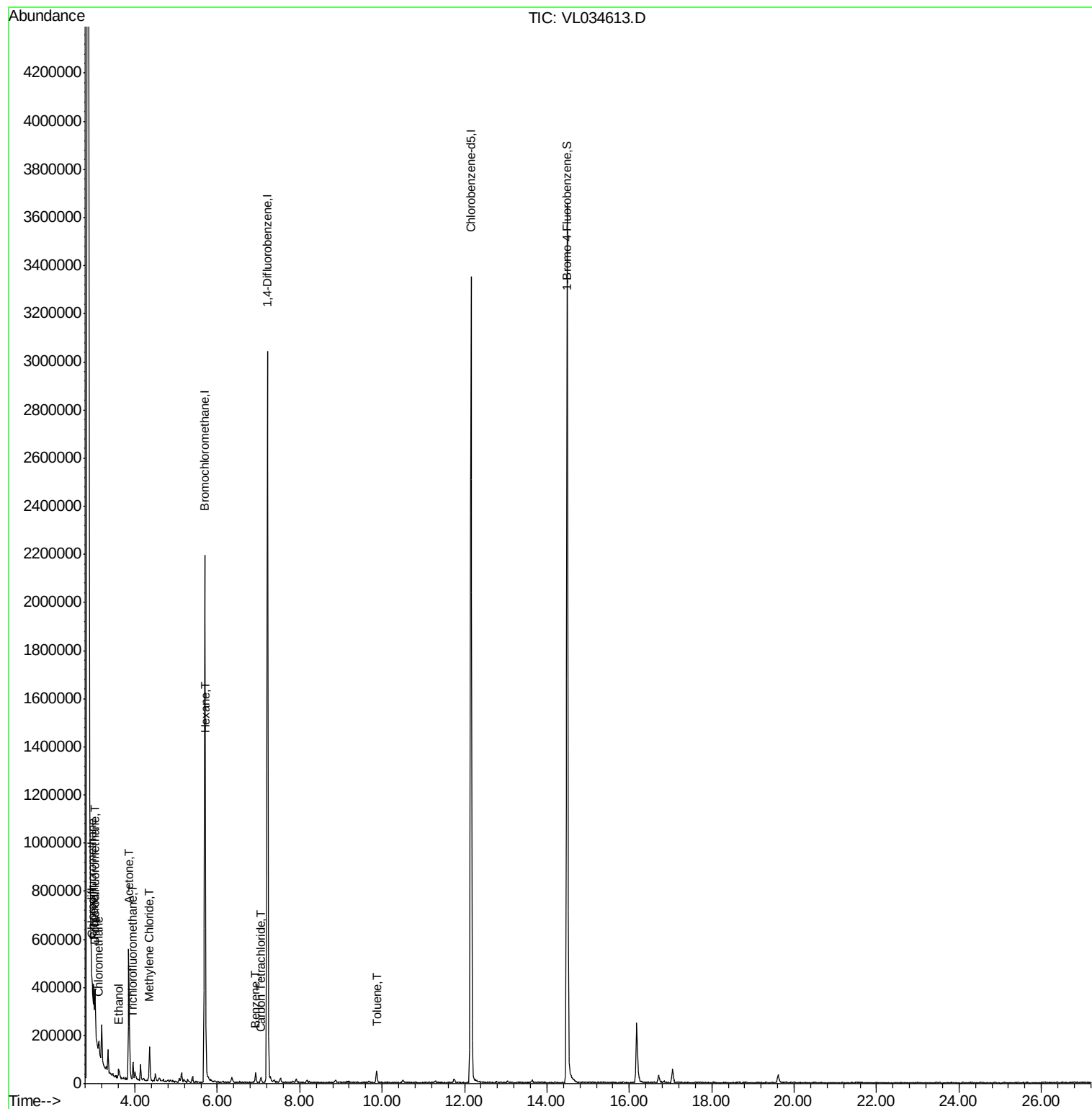
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	111469m	0.551	ppbv	
3) Chlorodifluoromethane	2.97	51	36156m	0.326	ppbv	
4) Chloromethane	3.12	50	33842	0.498	ppbv	94
9) Propene	3.01	41	21647m	0.501	ppbv	
11) Trichlorofluoromethane	3.95	101	44226	0.241	ppbv	92
13) Ethanol	3.61	45	33629m	2.906	ppbv	
15) Acetone	3.85	43	519641	3.850	ppbv	100
20) Methylene Chloride	4.36	84	40056	0.779	ppbv #	86
26) Hexane	5.72	57	26700	0.292	ppbv #	36
35) Carbon Tetrachloride	7.06	117	10477m	0.058	ppbv	
36) Benzene	6.93	78	25372m	0.150	ppbv	
53) Toluene	9.86	91	34417	0.185	ppbv	100

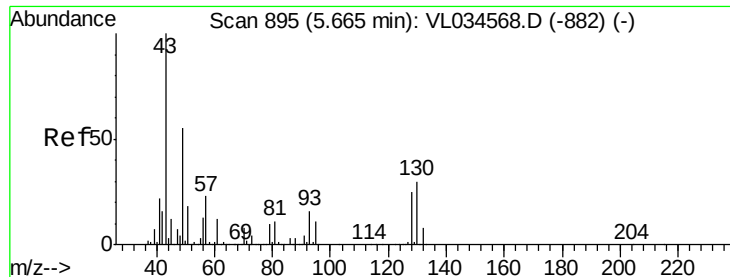
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

OA-1

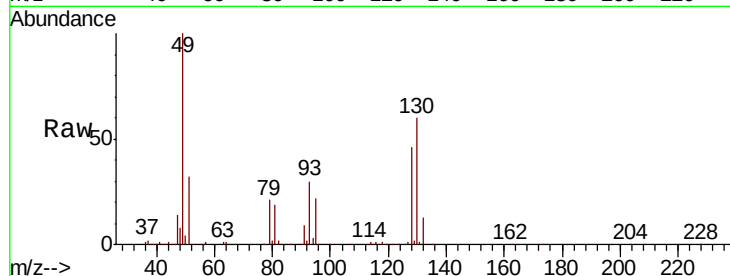
Tot Ion: 49 Resp: 918445

Ion Ratio Lower Upper

49 100

128 46.8 22.7 68.1

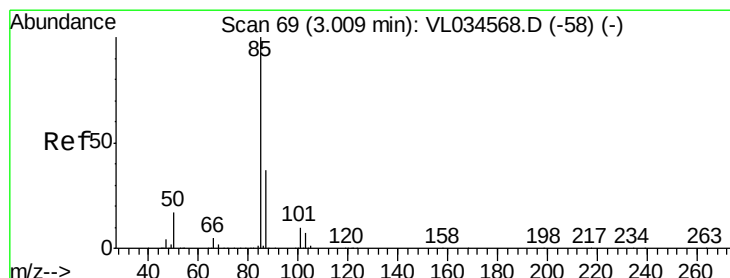
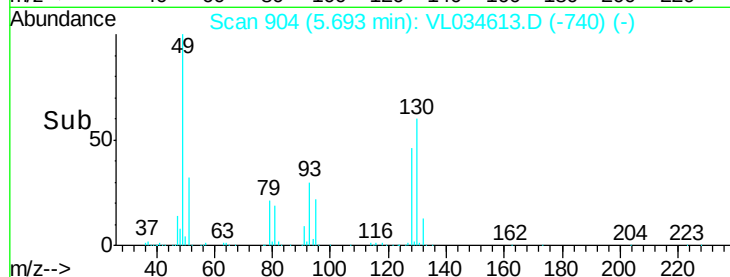
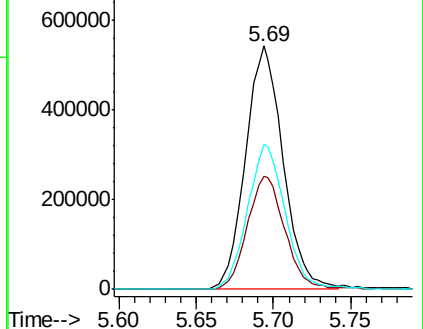
130 60.3 28.6 85.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.551 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL034613.D

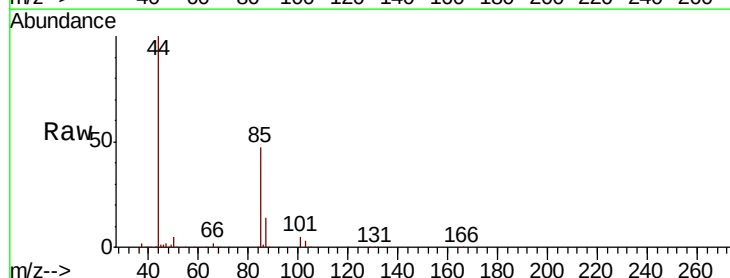
Acq: 7 Feb 2020 00:20

Tgt Ion: 85 Resp: 111469

Ion Ratio Lower Upper

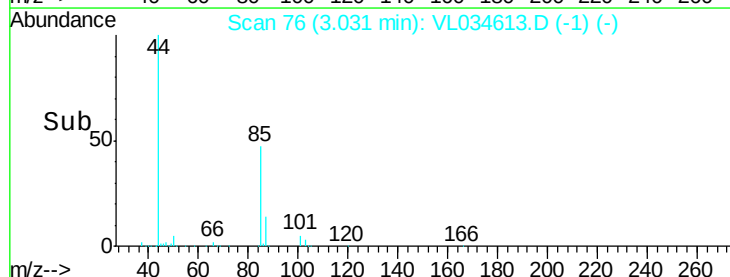
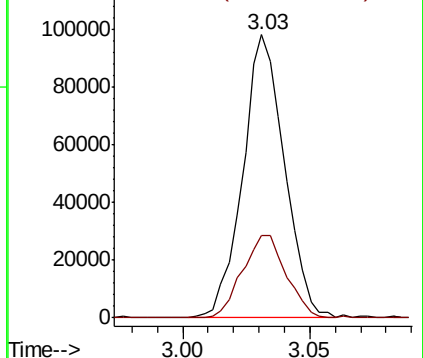
85 100

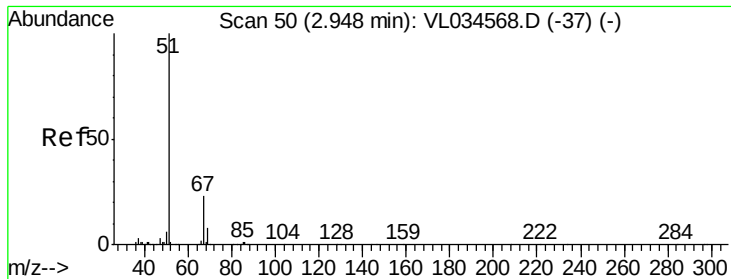
87 29.2 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.326 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. 0.03 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

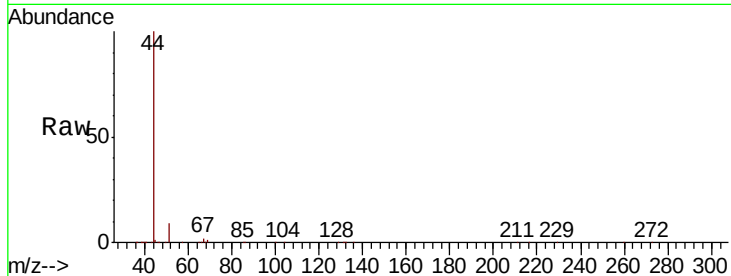
QA-1

Tot Ion: 51 Resp: 36156

Ion Ratio Lower Upper

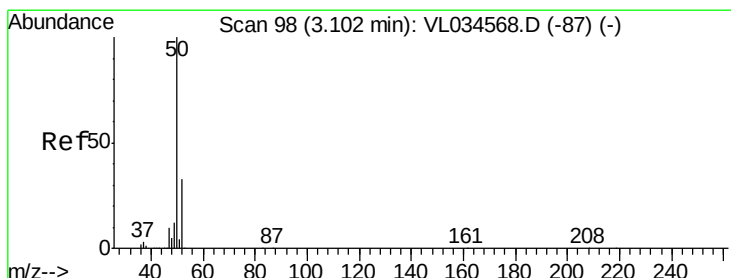
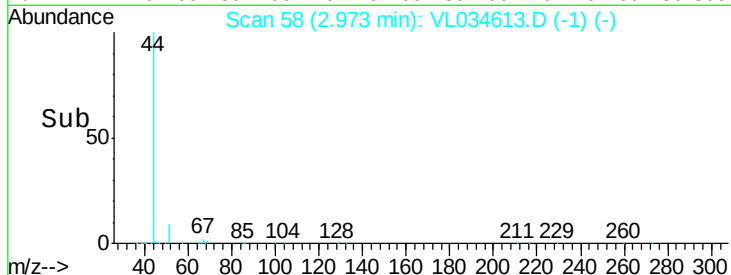
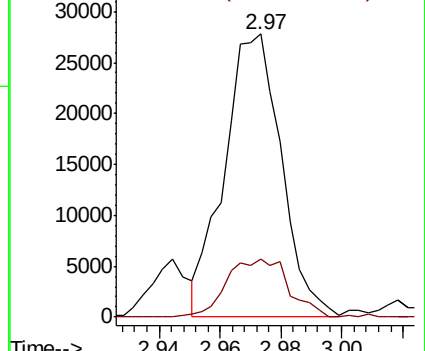
51 100

67 22.6 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

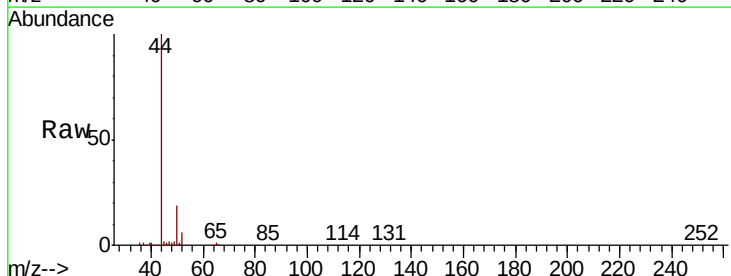
Acq: 7 Feb 2020 00:20

Tgt Ion: 50 Resp: 33842

Ion Ratio Lower Upper

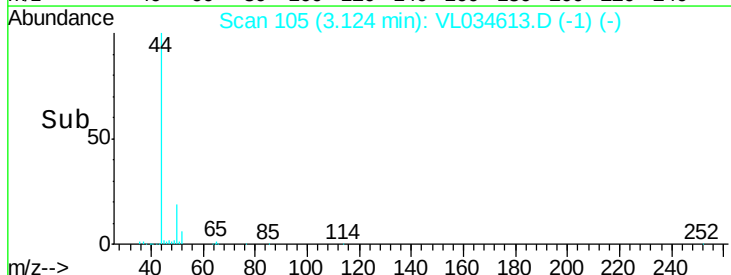
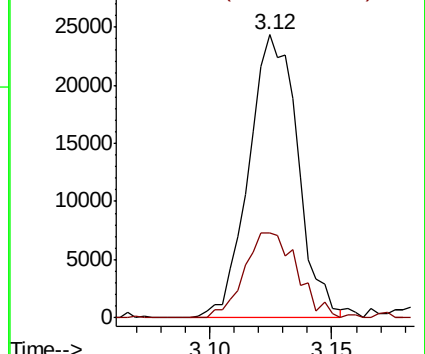
50 100

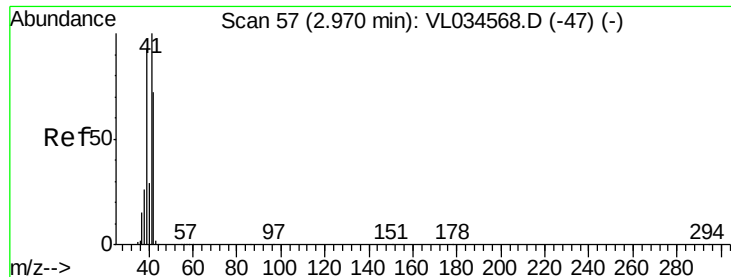
52 29.9 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.501 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.04 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

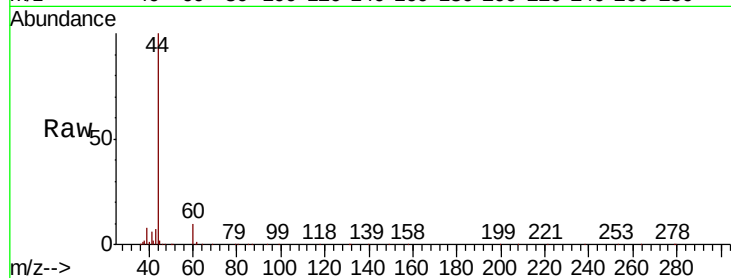
OA-1

Tot Ion: 41 Resp: 21647

Ion Ratio Lower Upper

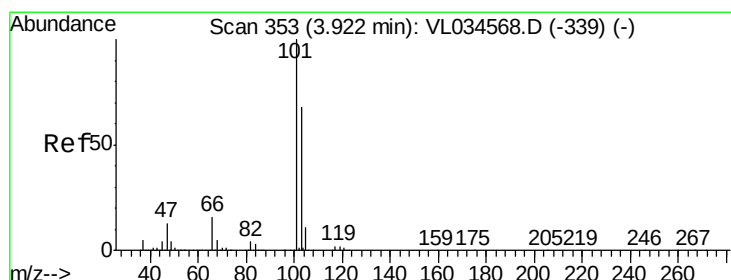
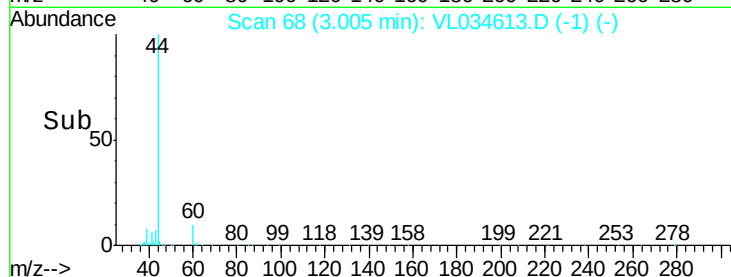
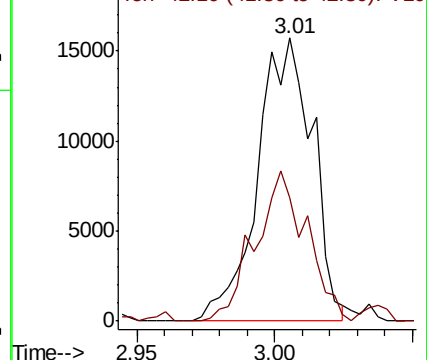
41 100

42 112.8 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.03 min

Lab File: VL034613.D

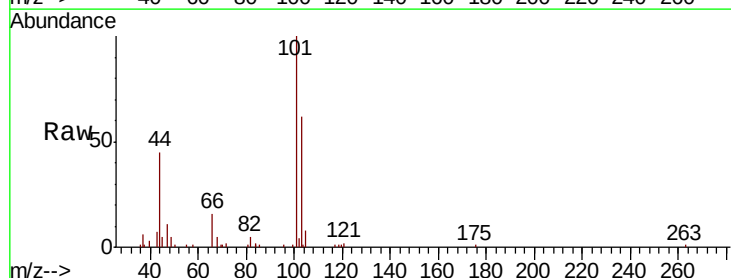
Acq: 7 Feb 2020 00:20

Tgt Ion: 101 Resp: 44226

Ion Ratio Lower Upper

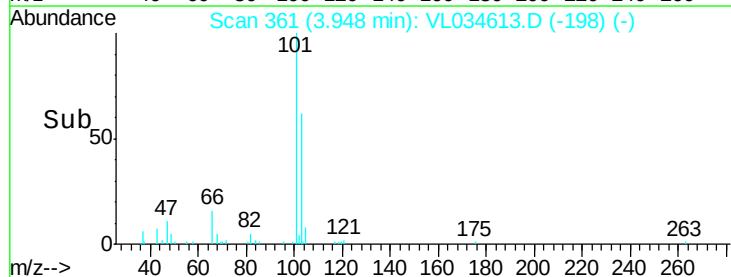
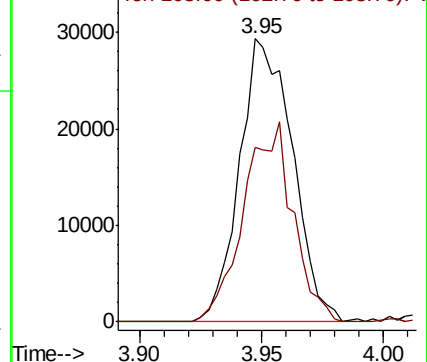
101 100

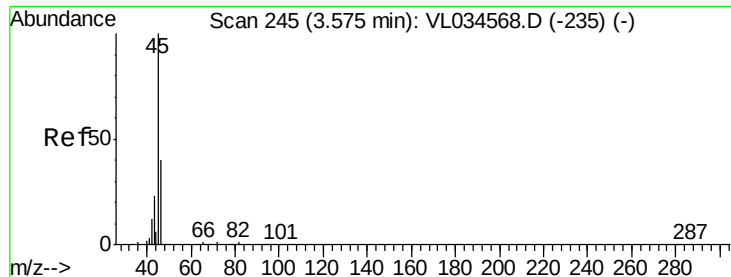
103 61.6 54.4 81.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

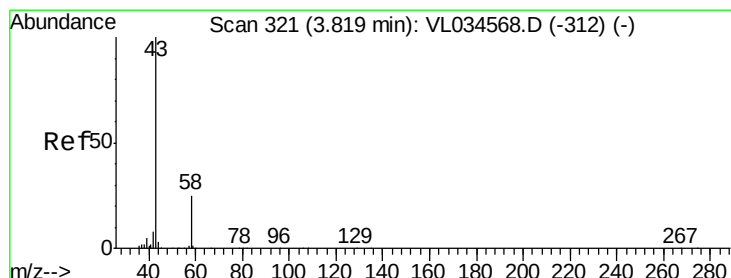
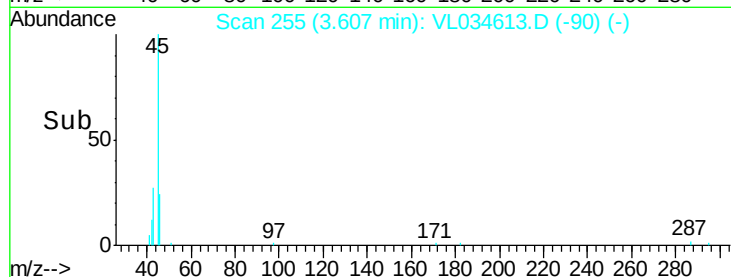
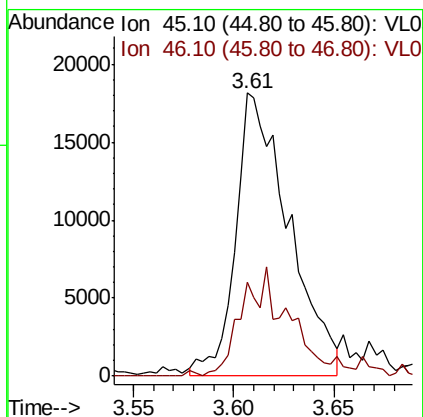
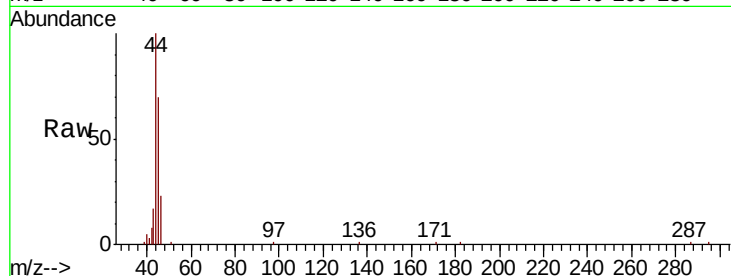




#13
Ethanol
Concen: 2.906 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. 0.03 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

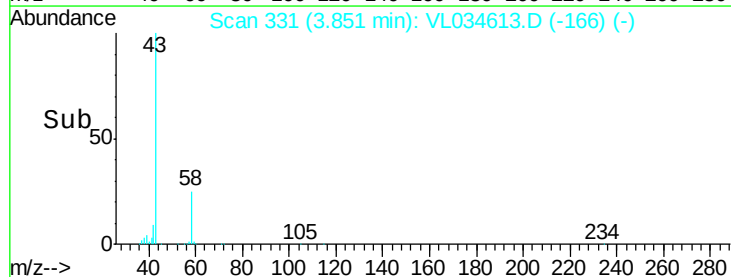
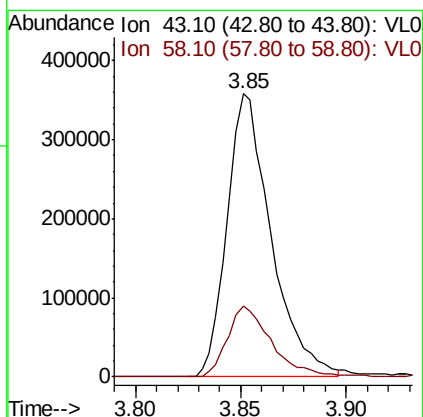
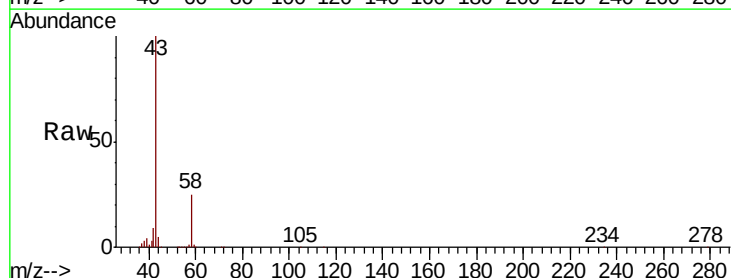
Instrument :
MSVOA_L
ClientSampleId :
OA-1

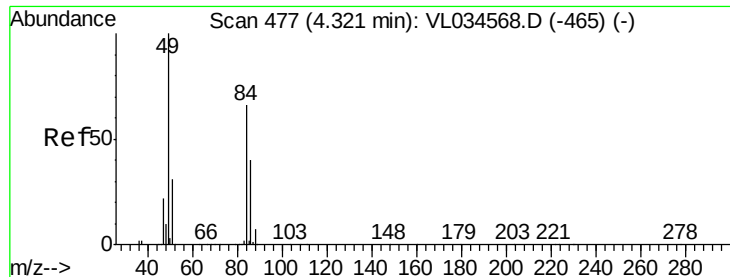
Tot Ion: 45 Resp: 33629
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.2#



#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

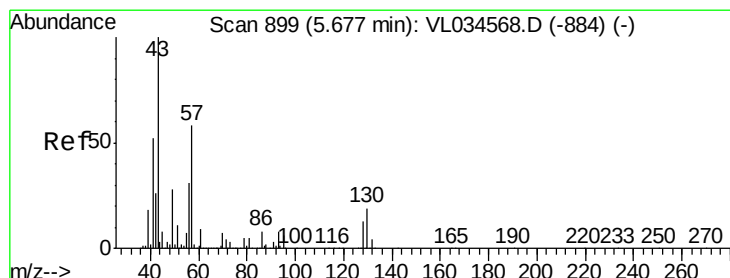
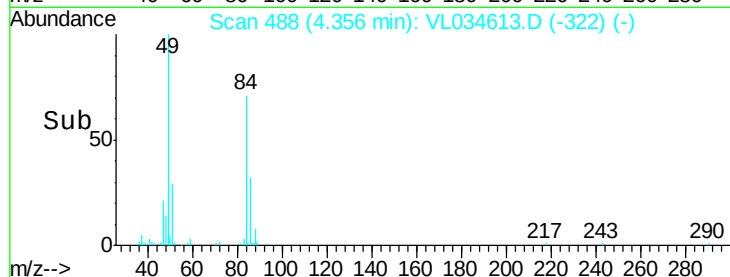
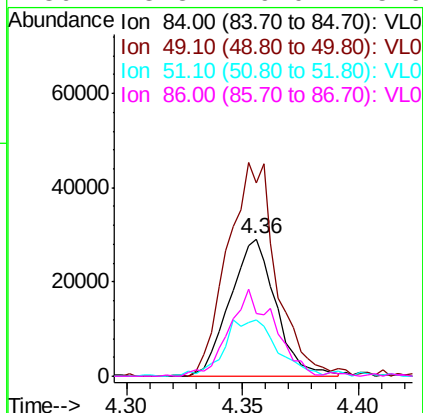
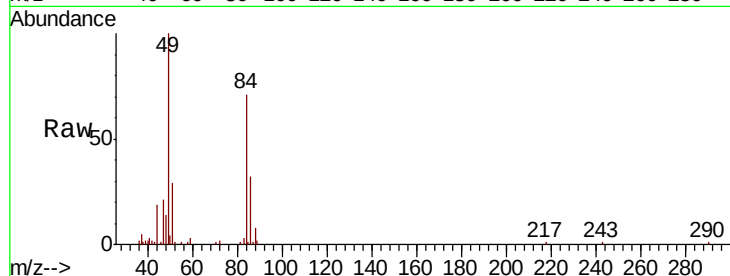




#20
Methylene Chloride
Concen: 0.779 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

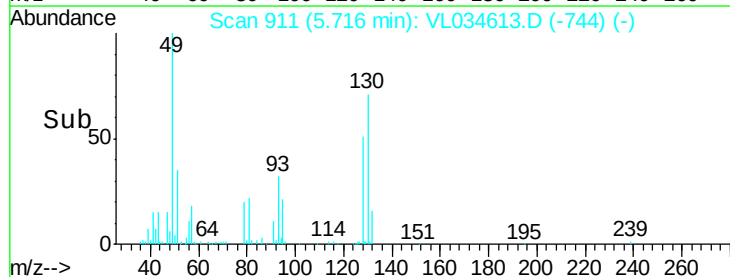
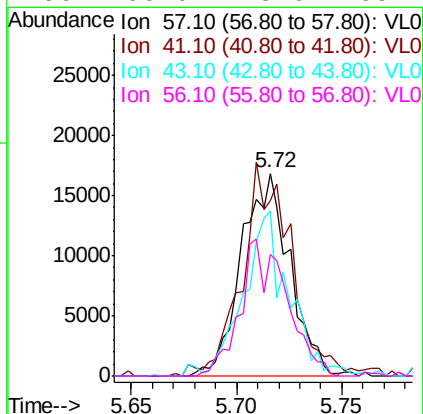
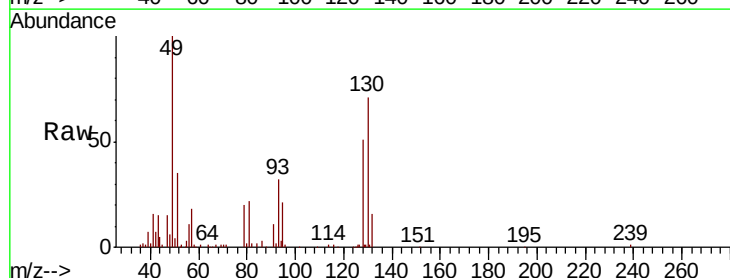
Instrument :
MSVOA_L
ClientSampleId :
OA-1

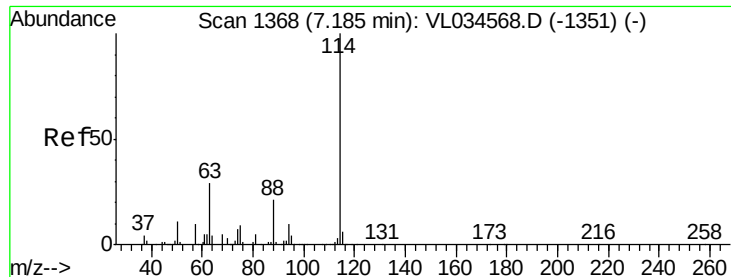
Tot Ion:	84	Resp:	40056
Ion	Ratio	Lower	Upper
84	100		
49	140.9	122.4	183.6
51	38.0	38.6	57.8#
86	43.3	49.0	73.6#



#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

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#

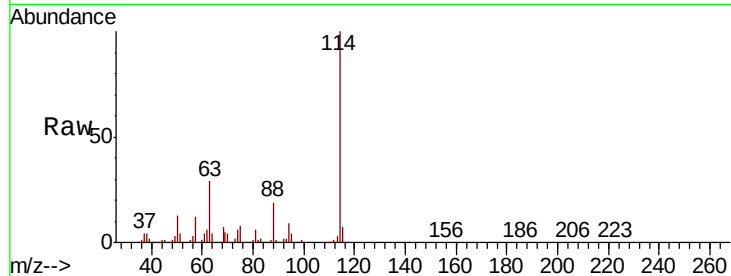




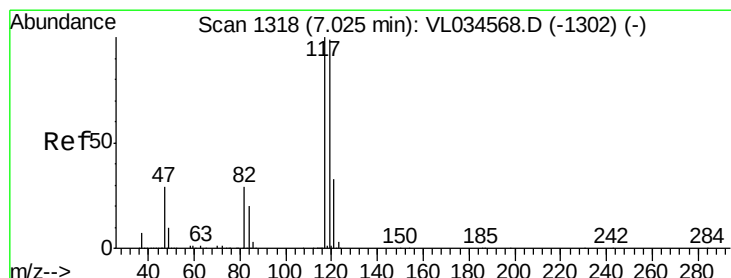
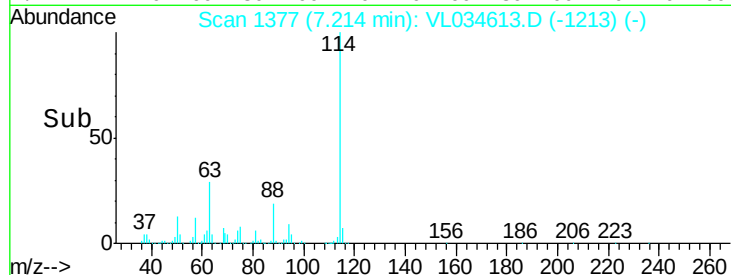
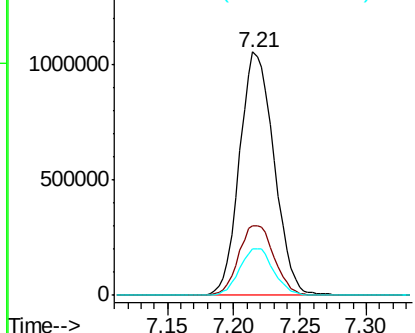
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. 0.03 min
 Lab File: VL034613.D
 Acq: 7 Feb 2020 00:20

Instrument :
 MSVOA_L
 ClientSampled :
 OA-1

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

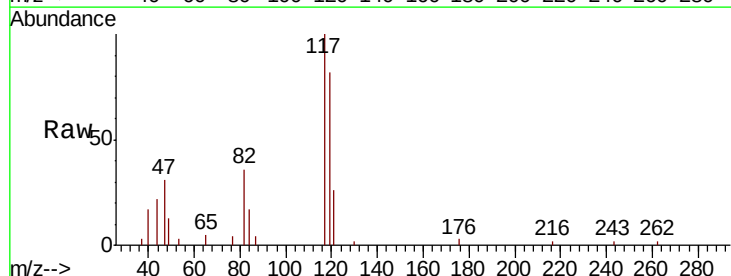


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

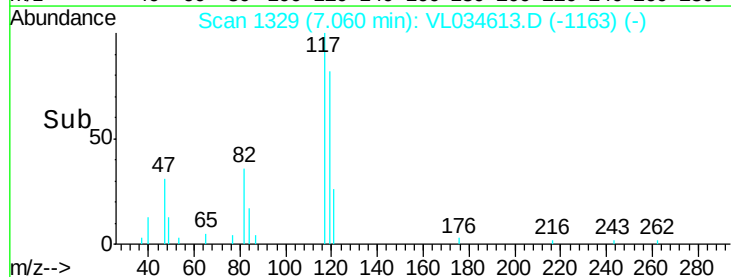
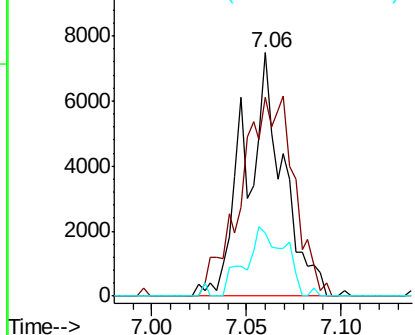


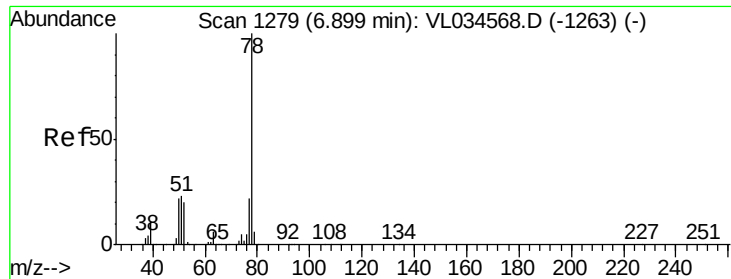
#35
 Carbon Tetrachloride
 Concen: 0.058 ppbv m
 RT: 7.06 min Scan# 1329
 Delta R.T. 0.04 min
 Lab File: VL034613.D
 Acq: 7 Feb 2020 00:20

Tgt Ion:117 Resp: 10477
 Ion Ratio Lower Upper
 117 100
 119 81.8 79.5 119.3
 121 25.9 26.2 39.2#



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.150 ppbv m

RT: 6.93 min Scan# 1288

Delta R.T. 0.03 min

Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Instrument :

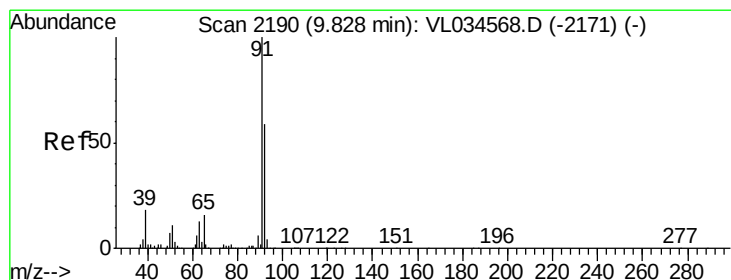
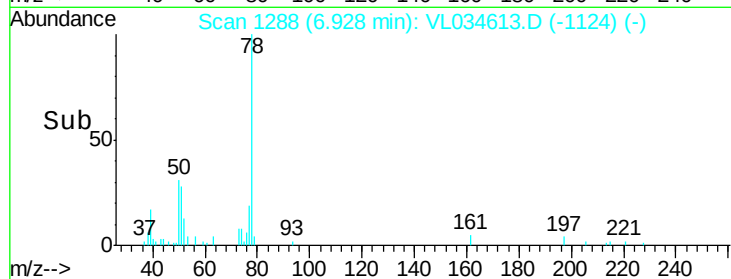
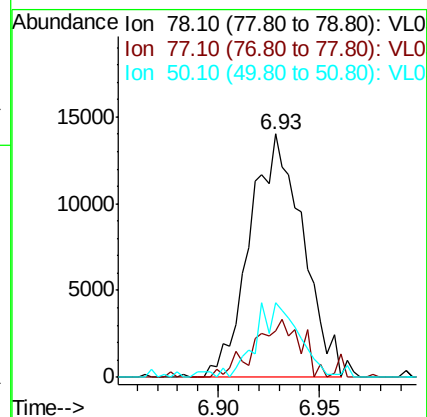
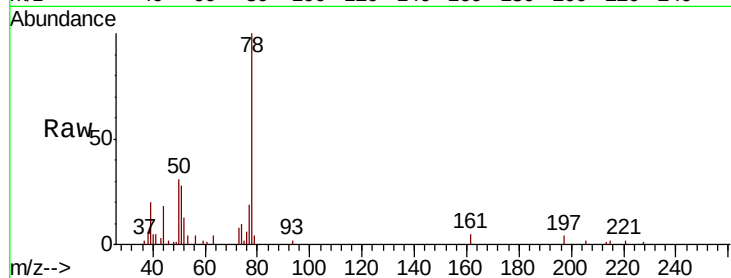
MSVOA_L

ClientSampled :

OA-1

Tot Ion: 78 Resp: 25372

Ion	Ratio	Lower	Upper
78	100		
77	19.1	17.3	25.9
50	30.6	17.4	26.2#



#53

Toluene

Concen: 0.185 ppbv

RT: 9.86 min Scan# 2201

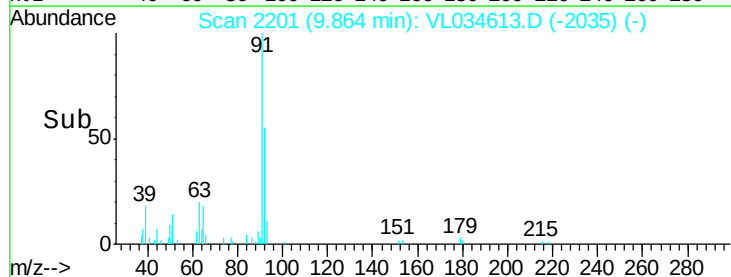
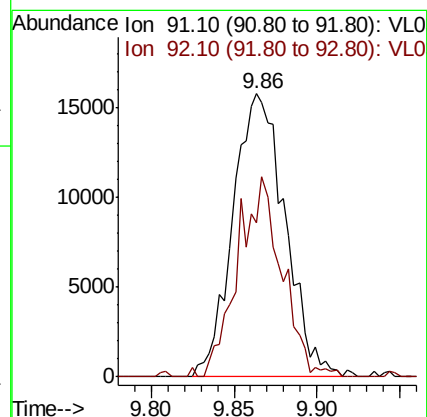
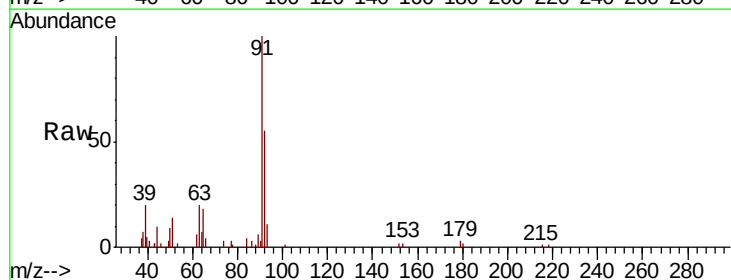
Delta R.T. 0.04 min

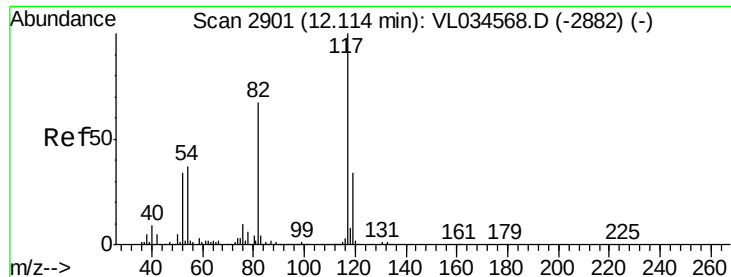
Lab File: VL034613.D

Acq: 7 Feb 2020 00:20

Tgt Ion: 91 Resp: 34417

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.2

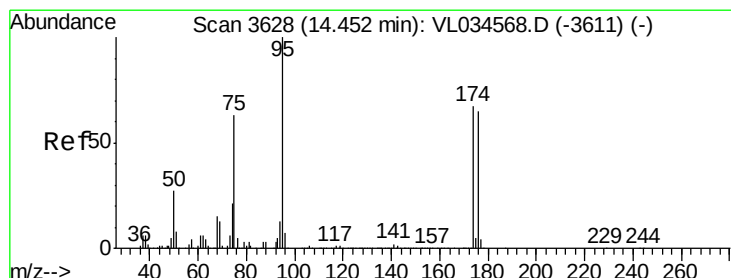
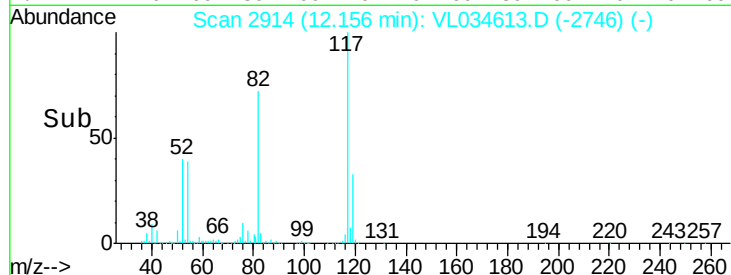
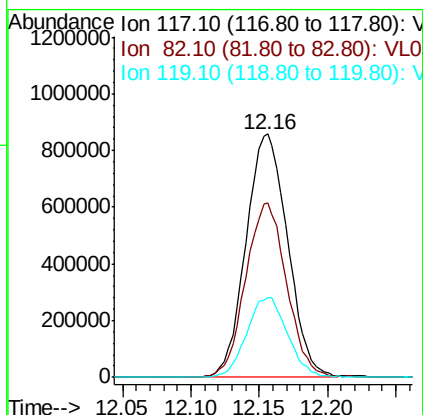
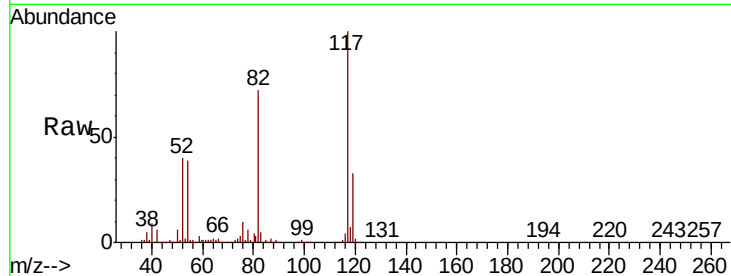




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.04 min
Lab File: VL034613.D
Acq: 7 Feb 2020 00:20

Instrument :
MSVOA_L
ClientSampleId :
OA-1

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



#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

