

Data File : VL034627.D
Acq On : 18 Feb 2020 17:02
Operator : SY/AP
Sample : L1532-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Quant Time: Feb 19 06:04:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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	5.65	49	946287	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1967895	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1930695	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1671340 10.24 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

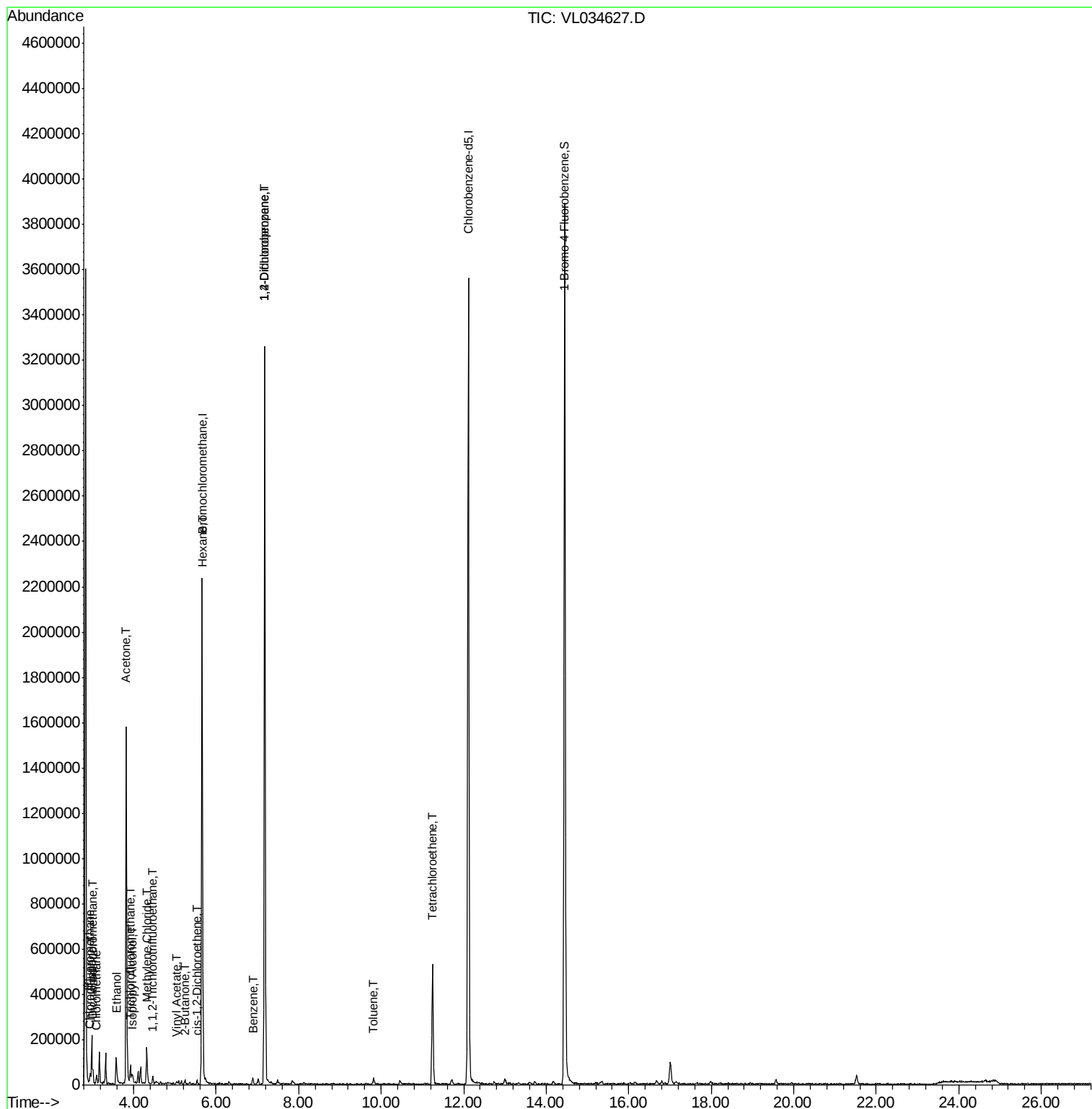
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	52606	0.252	ppbv	89
3) Chlorodifluoromethane	2.95	51	39943	0.349	ppbv	94
4) Chloromethane	3.10	50	18374	0.263	ppbv #	81
9) Propene	2.98	41	37078	0.833	ppbv #	68
11) Trichlorofluoromethane	3.92	101	47214	0.249	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8906	0.072	ppbv	84
13) Ethanol	3.57	45	118655	9.950	ppbv	98
15) Acetone	3.82	43	1516192	10.902	ppbv	100
19) Isopropyl Alcohol	3.96	45	38049	0.469	ppbv #	94
20) Methylene Chloride	4.32	84	45676	0.863	ppbv	92
23) Vinyl Acetate	5.05	43	5198	0.033	ppbv #	65
26) Hexane	5.67	57	12345	0.131	ppbv #	32
31) cis-1,2-Dichloroethene	5.53	61	5175	0.053	ppbv	96
34) 2-Butanone	5.23	43	6627	0.046	ppbv #	13
36) Benzene	6.89	78	7134	0.041	ppbv #	77
39) 1,2-Dichloropropane	7.18	63	576351	7.944	ppbv #	20
52) Tetrachloroethene	11.25	164	112490	1.600	ppbv	95
53) Toluene	9.82	91	15126	0.079	ppbv	97

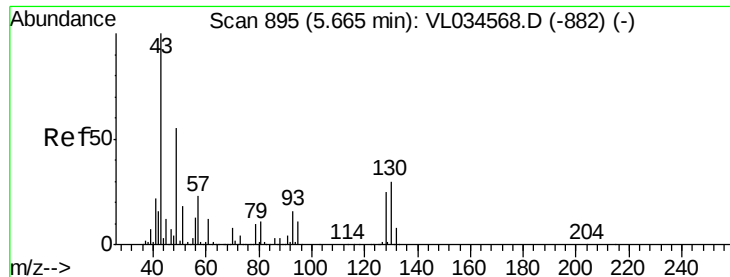
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

DC-IA

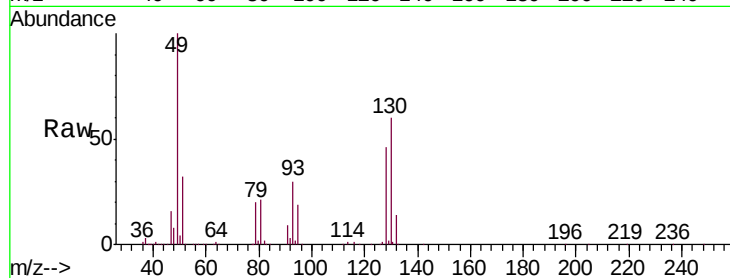
Tgt Ion: 49 Resp: 946287

Ion Ratio Lower Upper

49 100

128 46.7 22.7 68.1

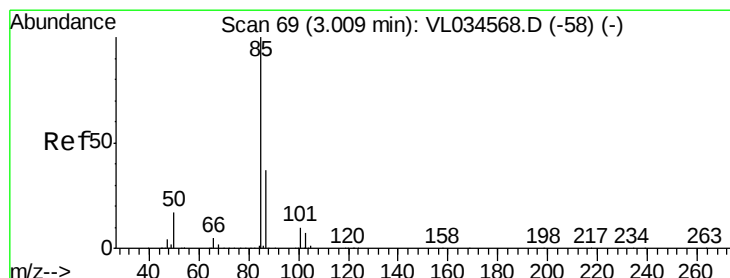
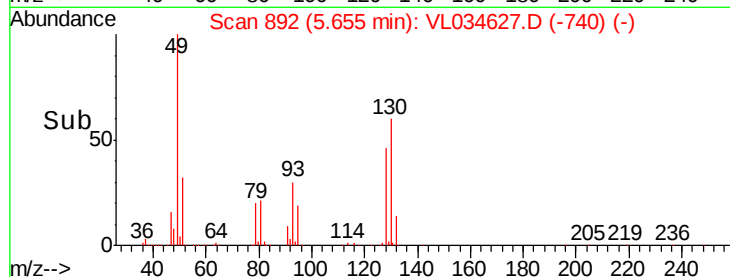
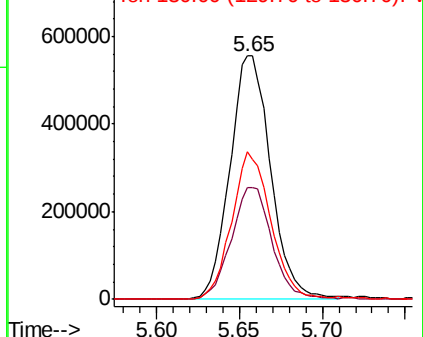
130 59.3 28.6 85.8



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: 0.252 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL034627.D

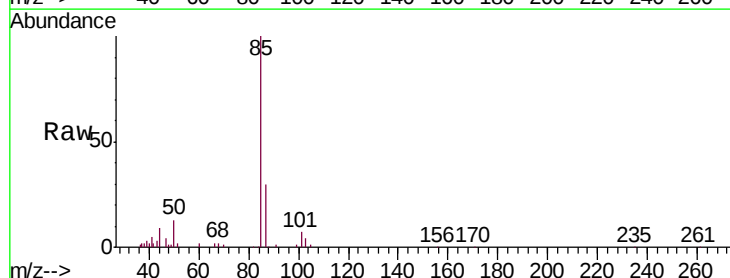
Acq: 18 Feb 2020 17:02

Tgt Ion: 85 Resp: 52606

Ion Ratio Lower Upper

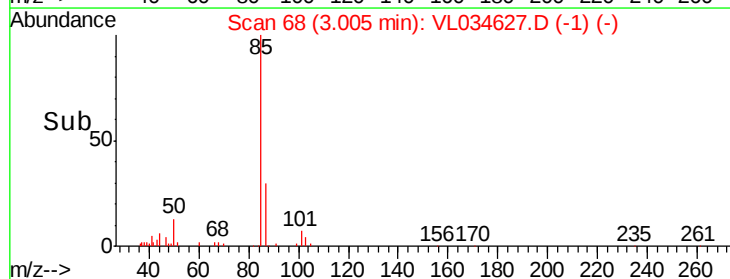
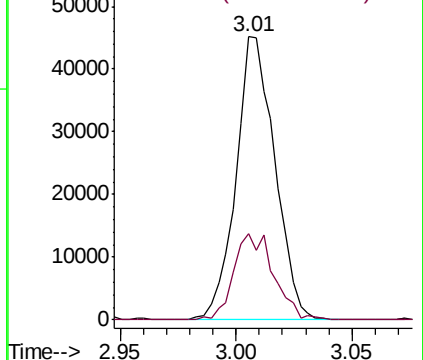
85 100

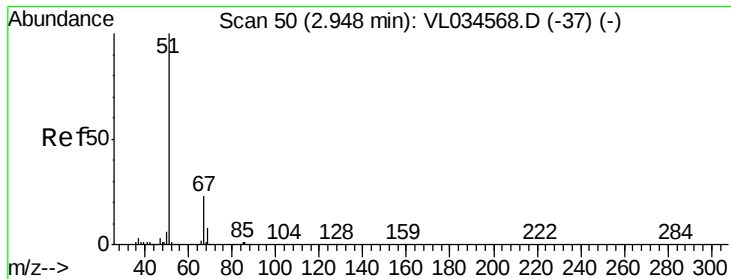
87 30.4 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

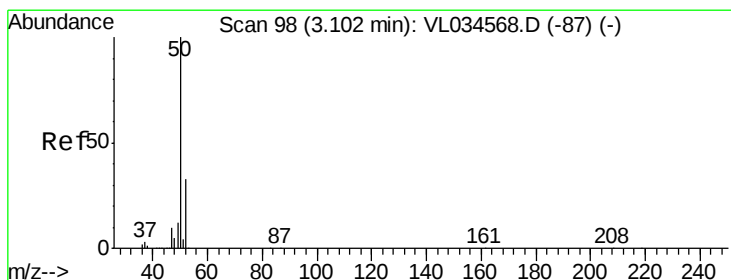
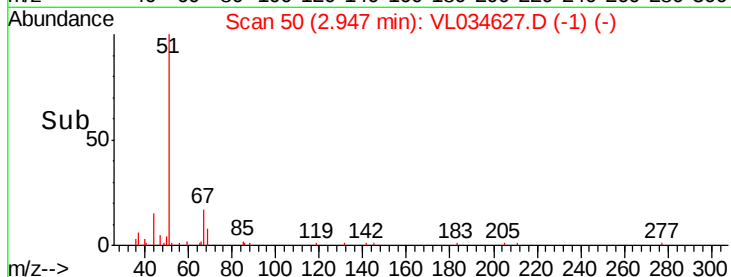
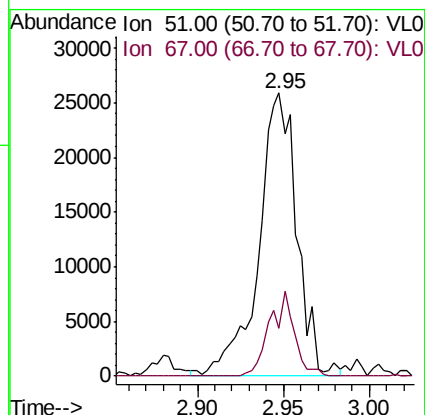
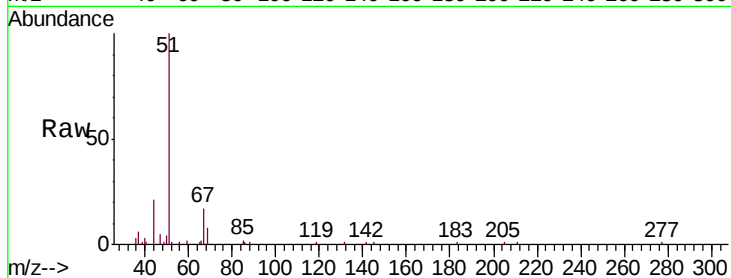




#3
Chlorodifluoromethane
Concen: 0.349 ppbv
RT: 2.95 min Scan# 50
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

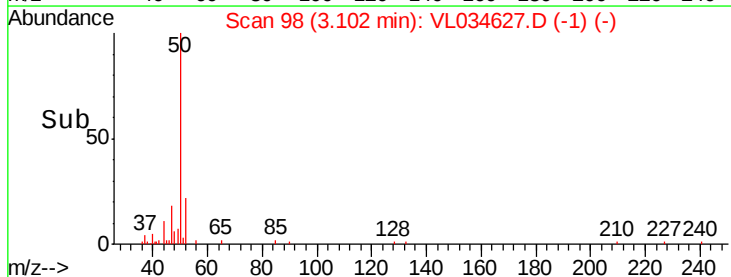
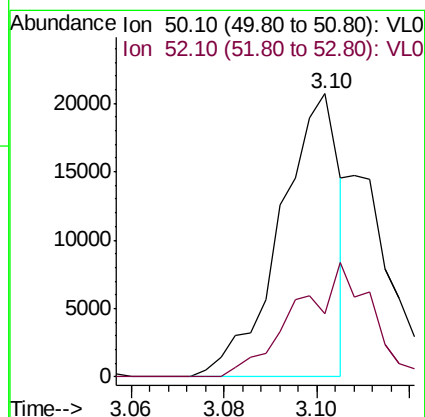
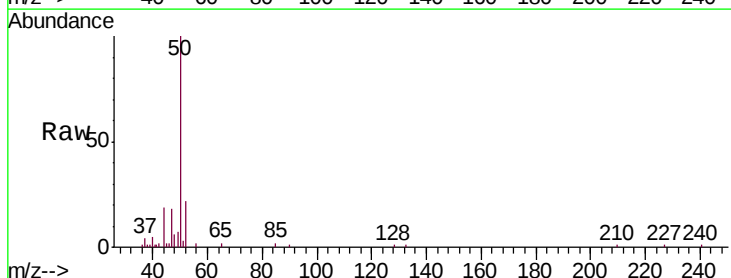
Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tgt Ion: 51 Resp: 39943
Ion Ratio Lower Upper
51 100
67 19.3 17.8 26.8



#4
Chloromethane
Concen: 0.263 ppbv
RT: 3.10 min Scan# 98
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion: 50 Resp: 18374
Ion Ratio Lower Upper
50 100
52 22.3 26.6 39.8#





#9

Propene

Concen: 0.833 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

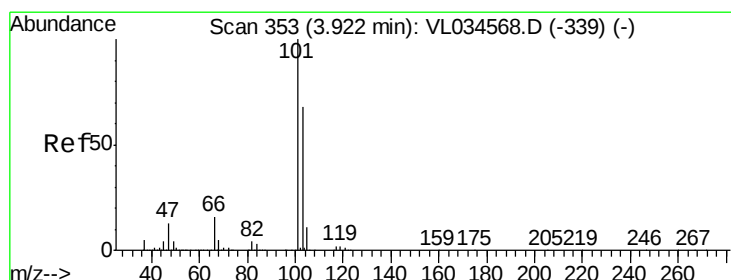
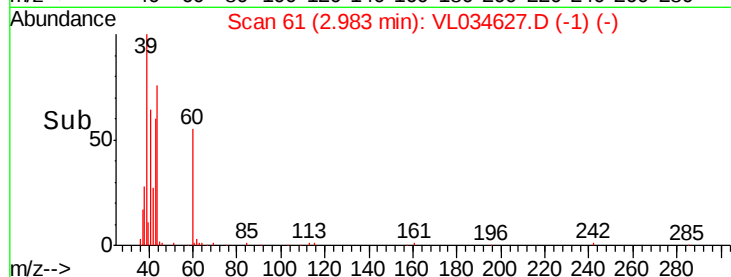
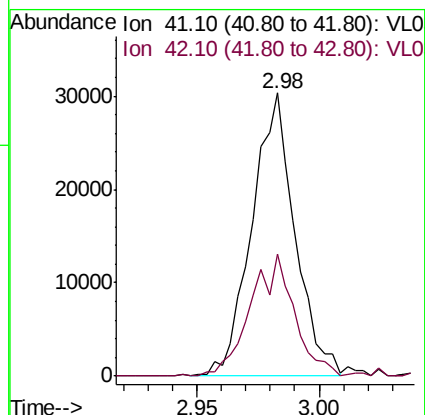
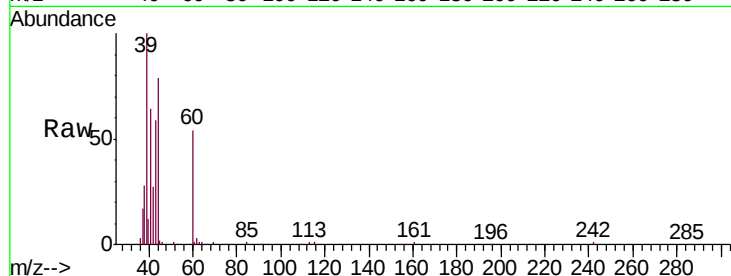
DC-IA

Tgt Ion: 41 Resp: 37078

Ion Ratio Lower Upper

41 100

42 44.8 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.249 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.00 min

Lab File: VL034627.D

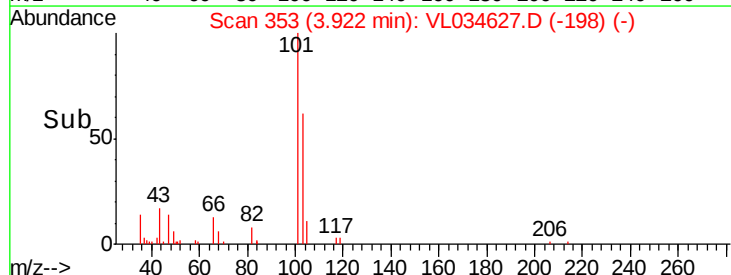
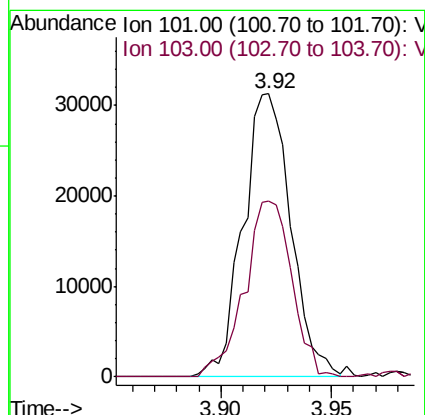
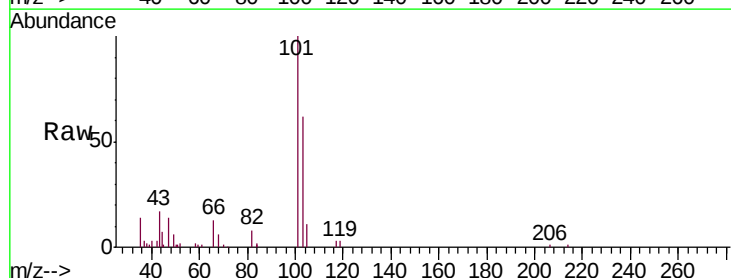
Acq: 18 Feb 2020 17:02

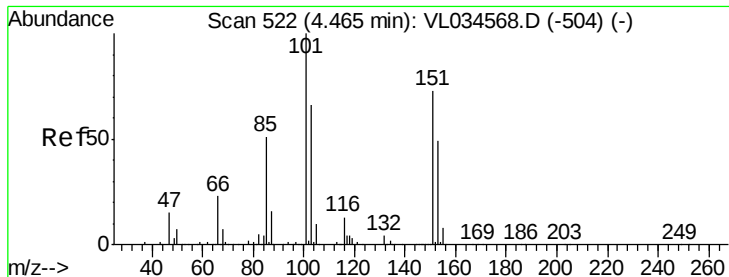
Tgt Ion: 101 Resp: 47214

Ion Ratio Lower Upper

101 100

103 62.2 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.072 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampled :

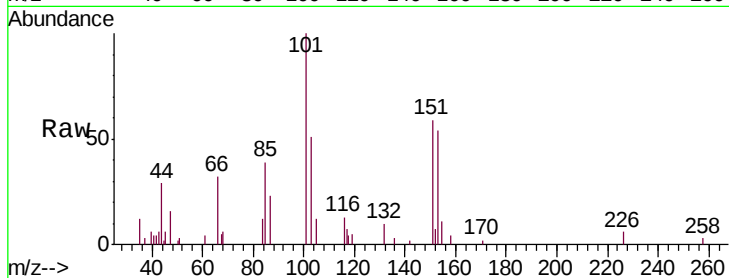
DC-IA

Tgt Ion:101 Resp: 8906

Ion Ratio Lower Upper

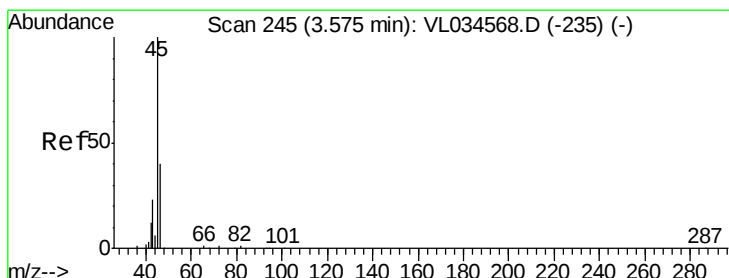
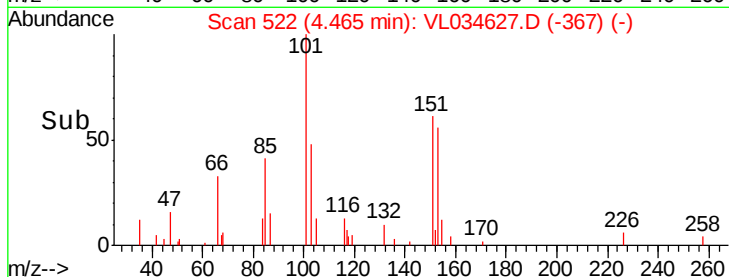
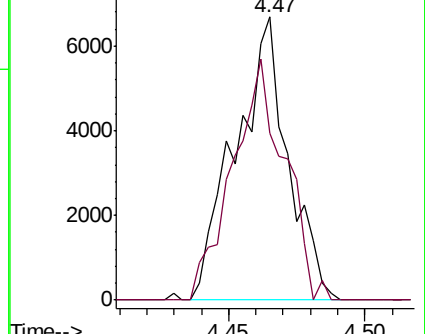
101 100

151 84.7 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 9.950 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034627.D

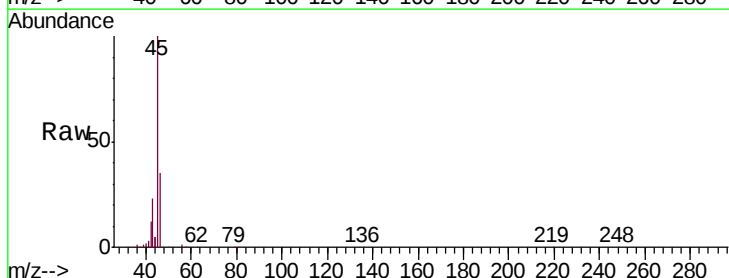
Acq: 18 Feb 2020 17:02

Tgt Ion: 45 Resp: 118655

Ion Ratio Lower Upper

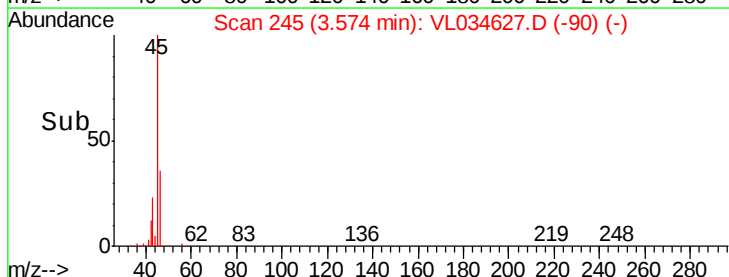
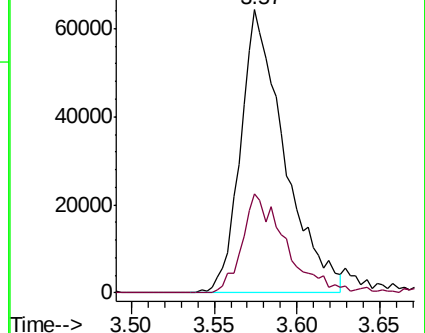
45 100

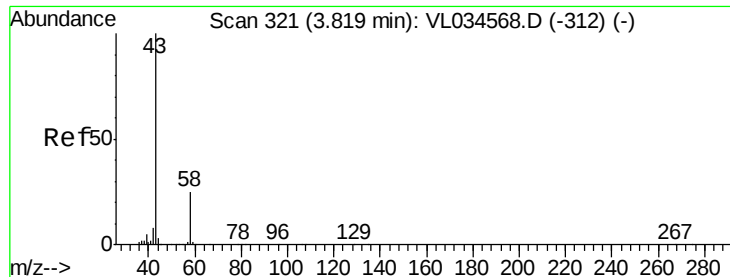
46 36.0 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.902 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

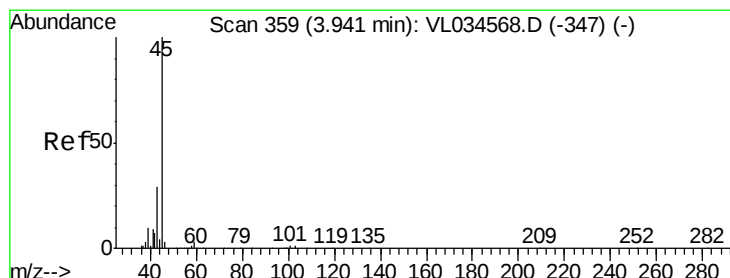
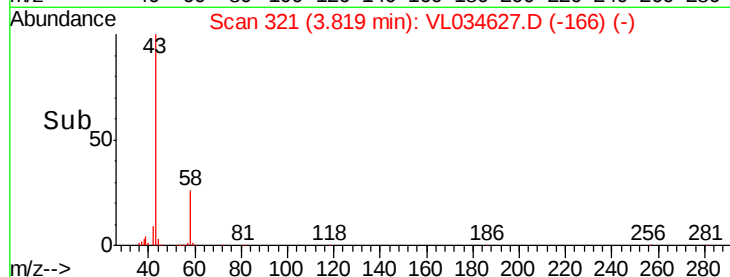
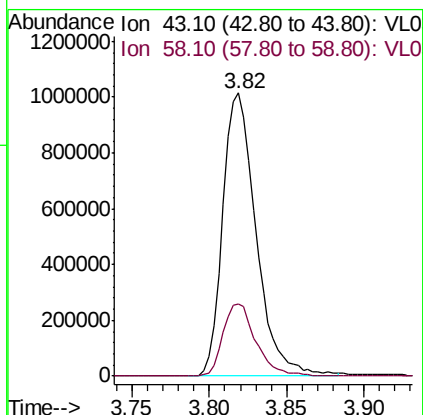
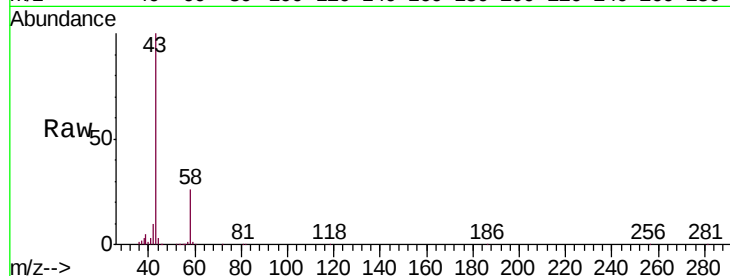
DC-IA

Tgt Ion: 43 Resp: 1516192

Ion Ratio Lower Upper

43 100

58 25.5 20.3 30.5



#19

Isopropyl Alcohol

Concen: 0.469 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034627.D

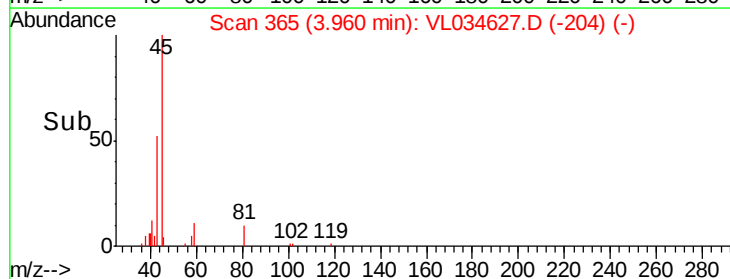
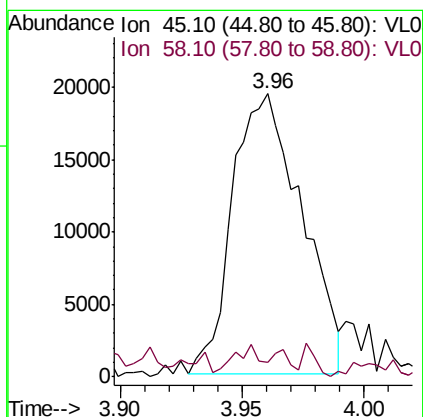
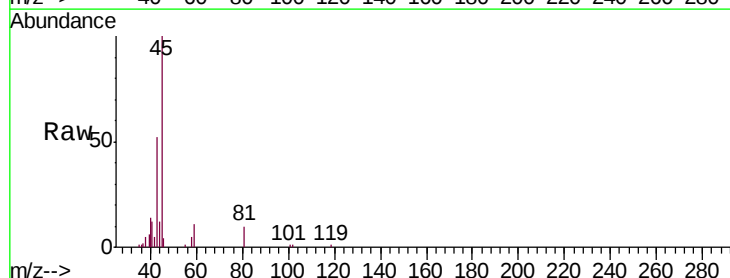
Acq: 18 Feb 2020 17:02

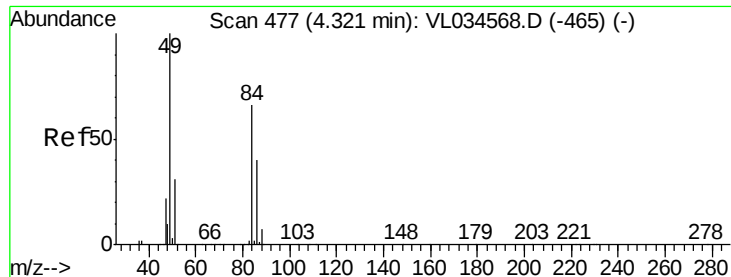
Tgt Ion: 45 Resp: 38049

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

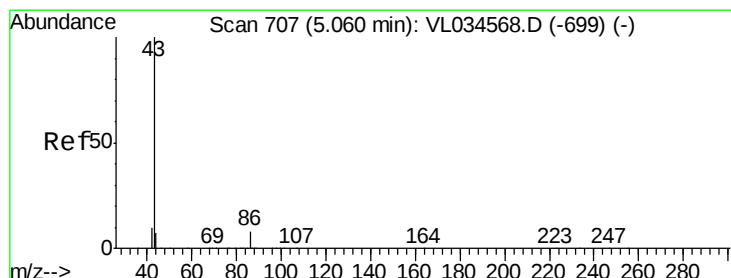
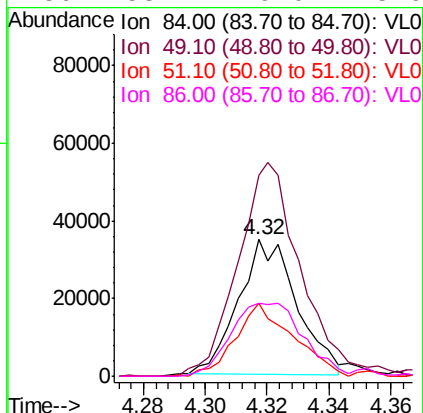
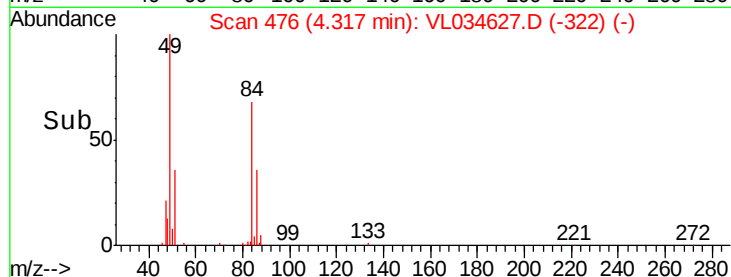
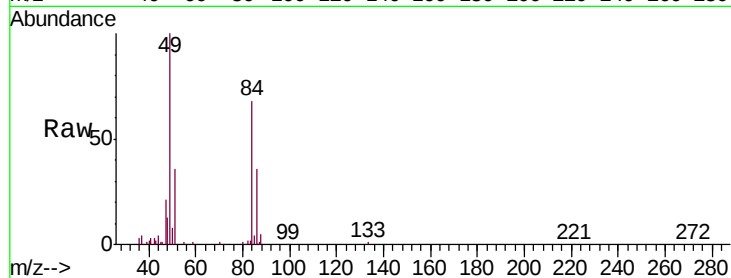




#20
Methylene Chloride
Concen: 0.863 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

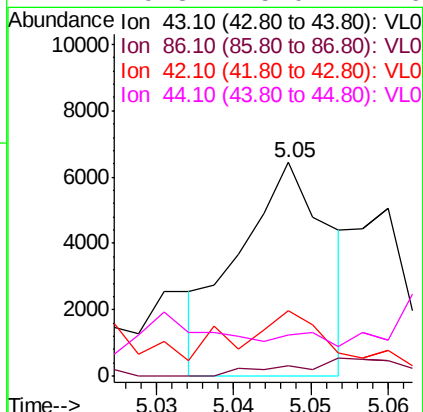
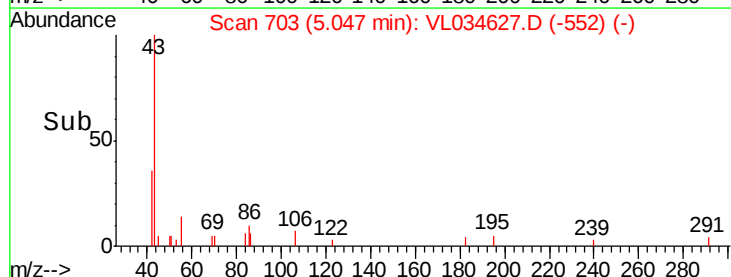
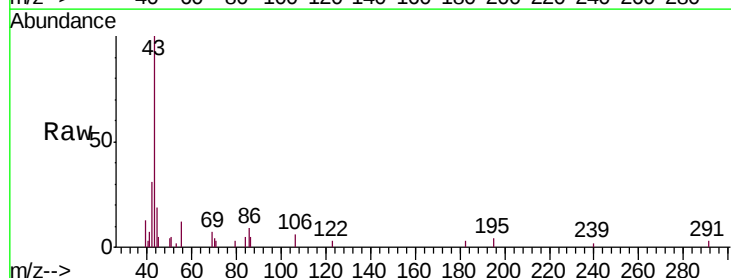
Instrument :
MSVOA_L
ClientSampleId :
DC-IA

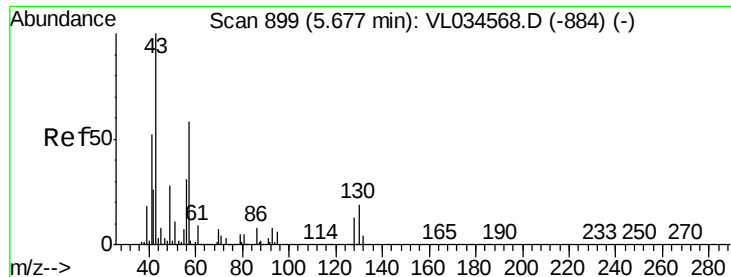
Tgt Ion:	84	Resp:	45676
Ion	Ratio	Lower	Upper
84	100		
49	143.8	122.4	183.6
51	54.1	38.6	57.8
86	53.4	49.0	73.6



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.01 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion:	43	Resp:	5198
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.9	8.9
42	38.6	8.8	13.2#
44	9.3	5.0	7.6#

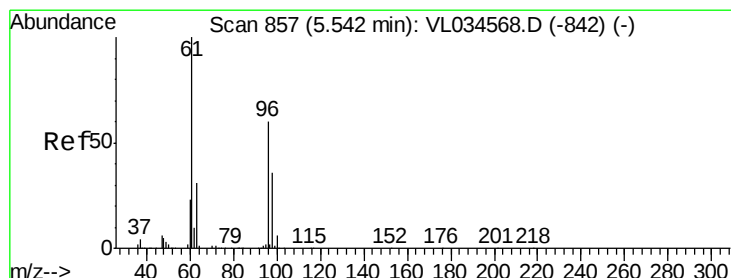
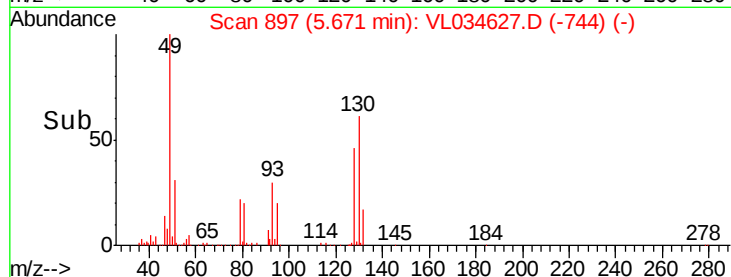
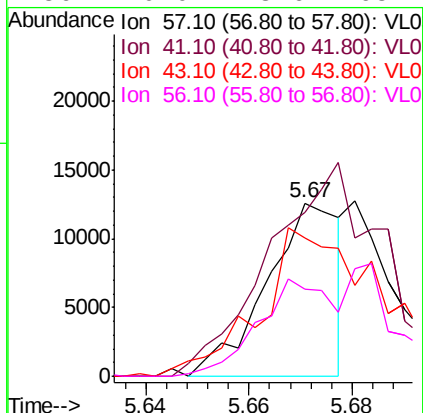
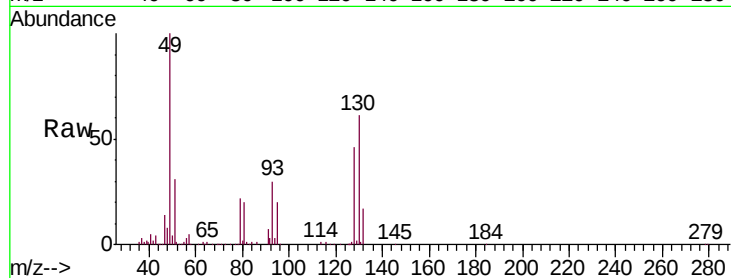




#26
Hexane
Concen: 0.131 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

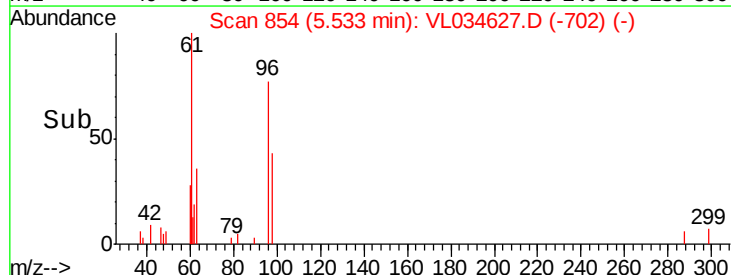
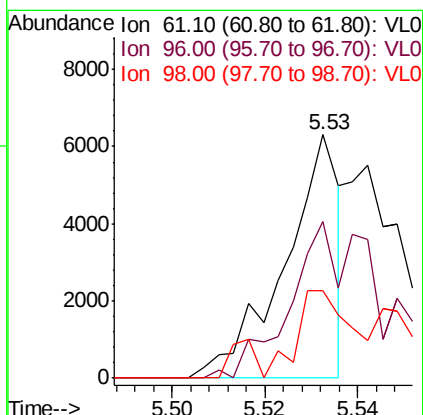
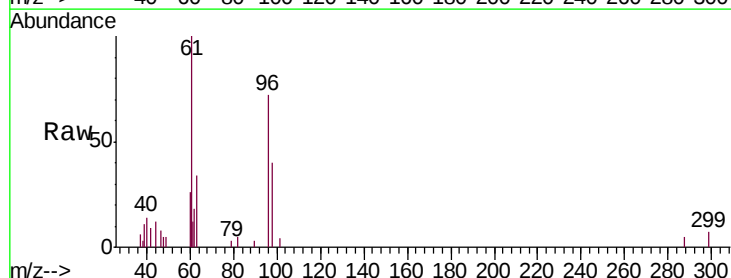
Instrument :
MSVOA_L
ClientSampleId :
DC-IA

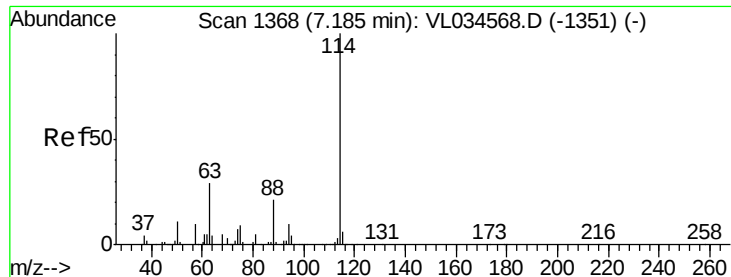
Tgt Ion:	57	Resp:	12345
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.2	114.2#
43	146.8	189.9	284.9#
56	0.0	43.6	65.4#



#31
cis-1,2-Dichloroethene
Concen: 0.053 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion:	61	Resp:	5175
Ion	Ratio	Lower	Upper
61	100		
96	64.5	48.0	72.0
98	35.8	28.6	43.0

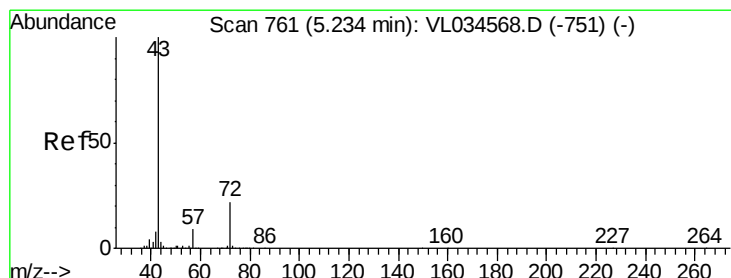
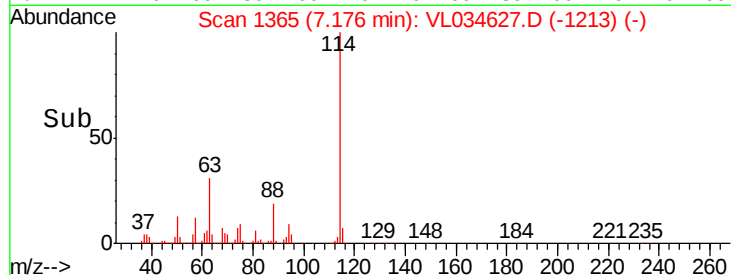
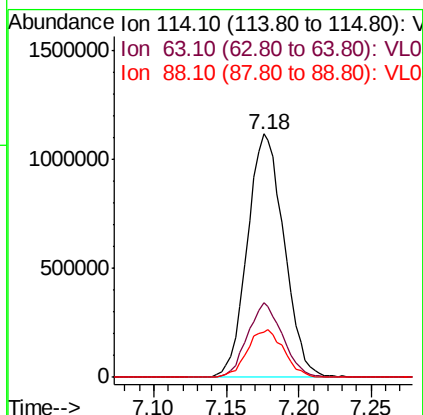
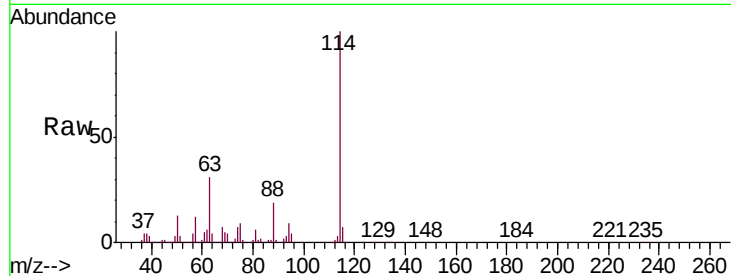




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

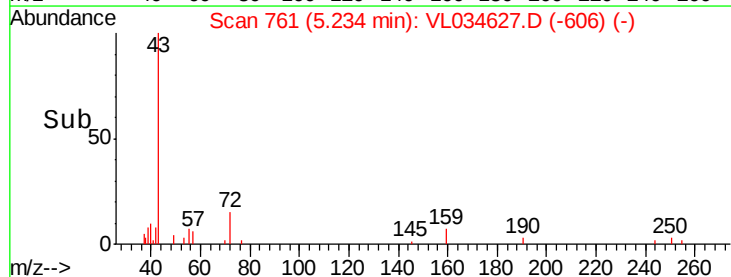
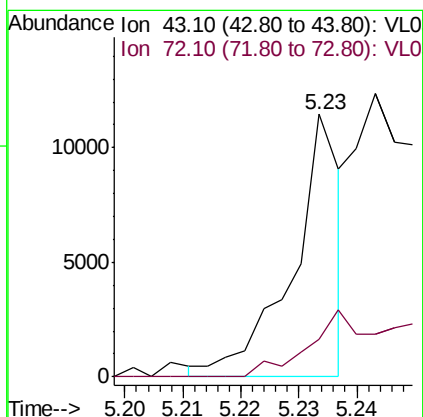
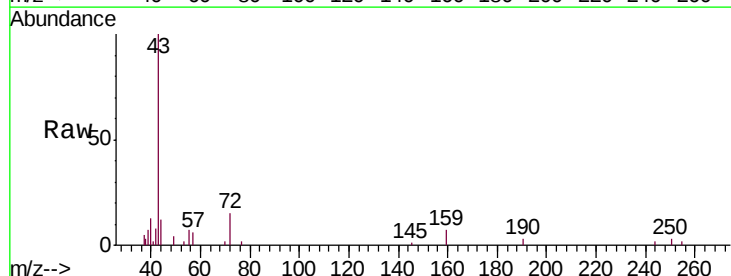
Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

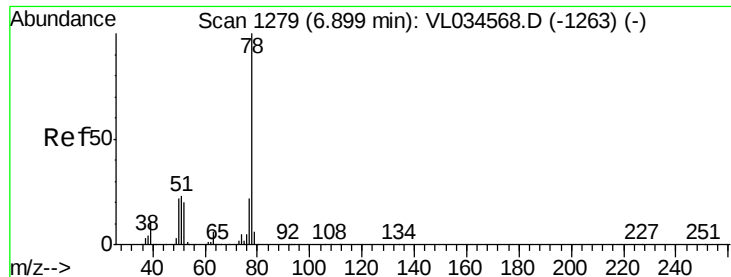
Tgt Ion:114 Resp: 1967895
 Ion Ratio Lower Upper
 114 100
 63 29.4 24.1 36.1
 88 19.7 15.9 23.9



#34
 2-Butanone
 Concen: 0.046 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Tgt Ion: 43 Resp: 6627
 Ion Ratio Lower Upper
 43 100
 72 62.4 17.2 25.8#





#36

Benzene

Concen: 0.041 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

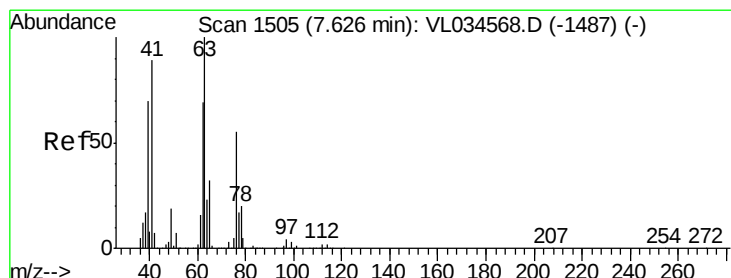
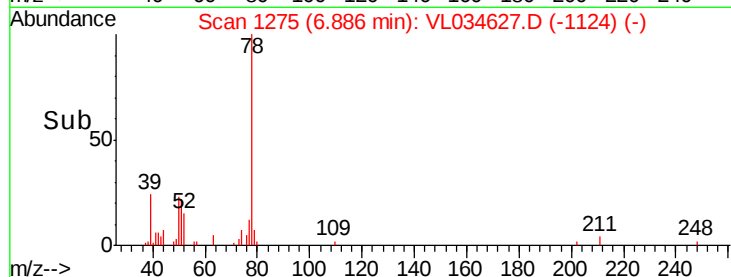
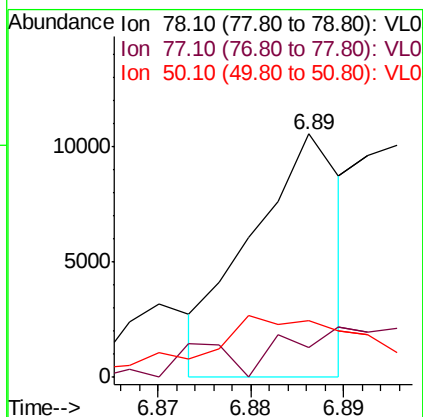
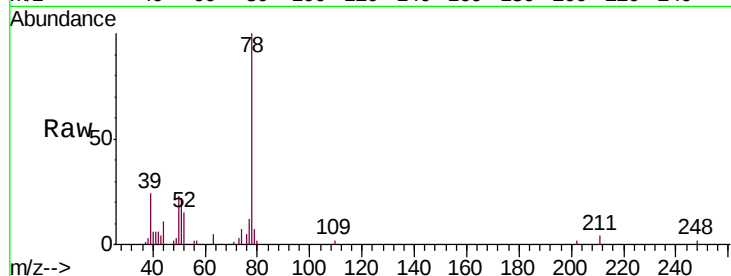
MSVOA_L

ClientSampleId :

DC-IA

Tgt Ion: 78 Resp: 7134

Ion	Ratio	Lower	Upper
78	100		
77	0.0	17.3	25.9#
50	21.1	17.4	26.2



#39

1,2-Dichloropropane

Concen: 7.944 ppbv

RT: 7.18 min Scan# 1365

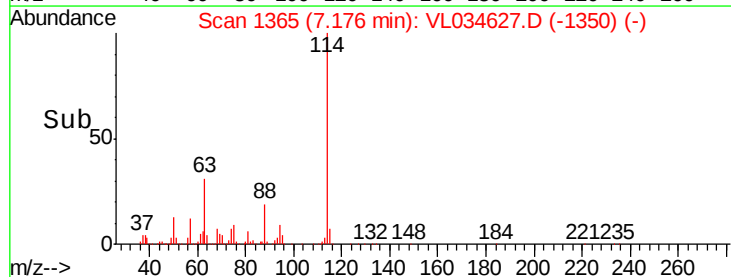
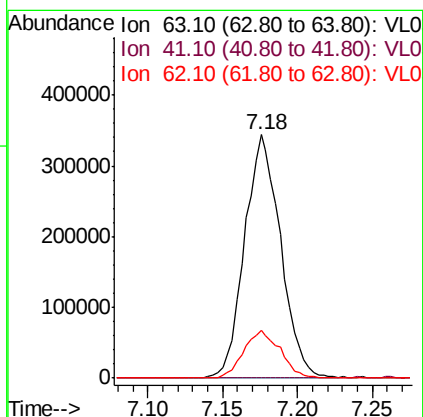
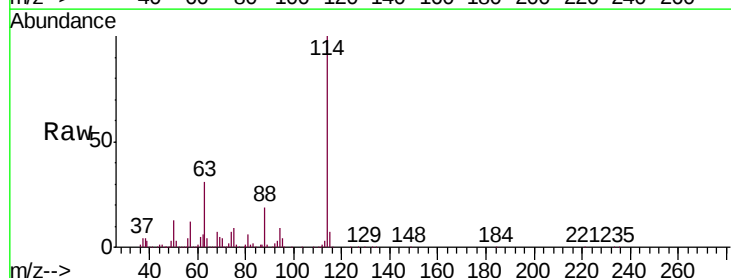
Delta R.T. -0.45 min

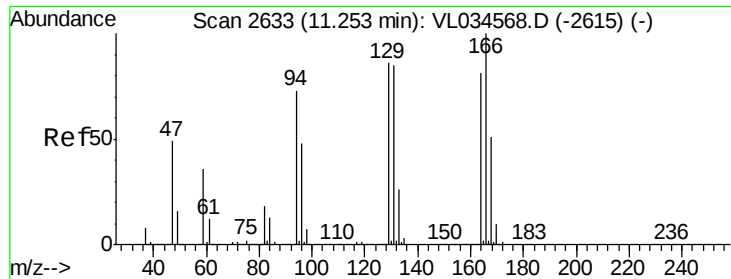
Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Tgt Ion: 63 Resp: 576351

Ion	Ratio	Lower	Upper
63	100		
41	0.0	71.0	106.4#
62	19.5	55.4	83.0#





#52

Tetrachloroethene

Concen: 1.600 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

DC-IA

Tgt Ion:164 Resp: 112490

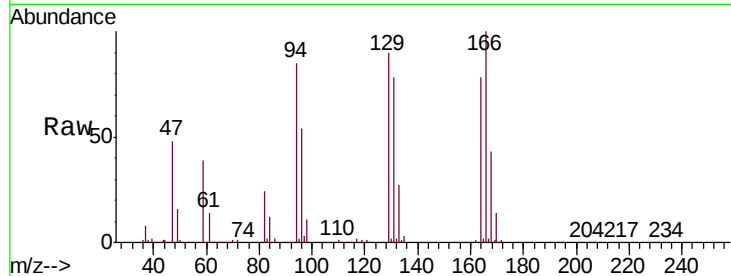
Ion Ratio Lower Upper

164 100

166 126.7 99.0 148.4

129 115.4 85.3 127.9

131 99.9 84.2 126.2

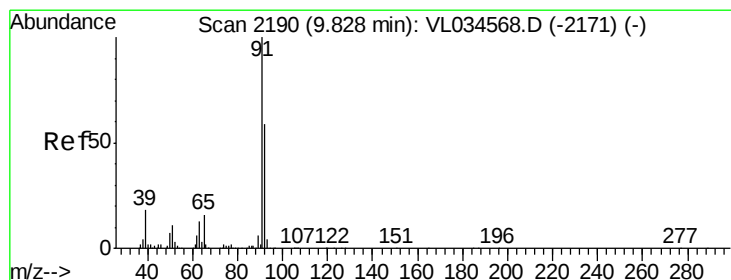
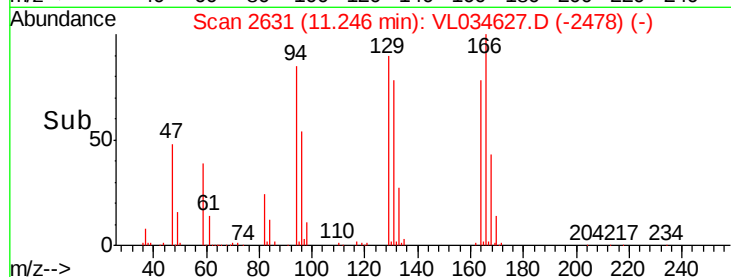
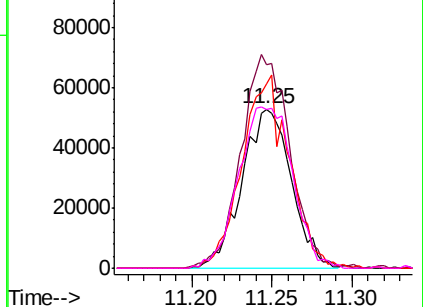


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.079 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034627.D

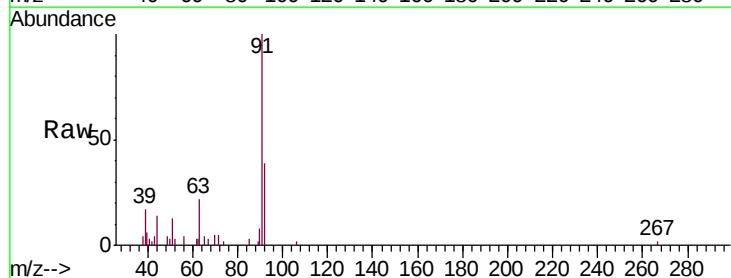
Acq: 18 Feb 2020 17:02

Tgt Ion: 91 Resp: 15126

Ion Ratio Lower Upper

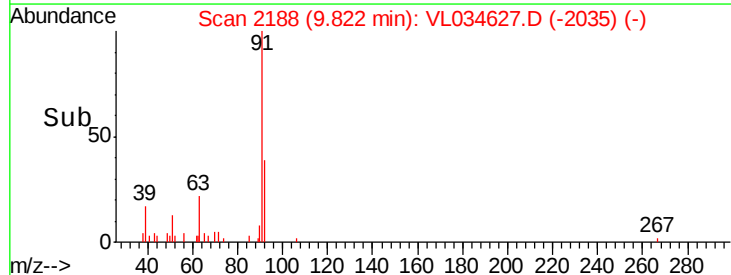
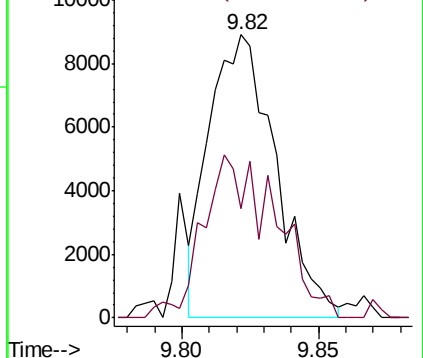
91 100

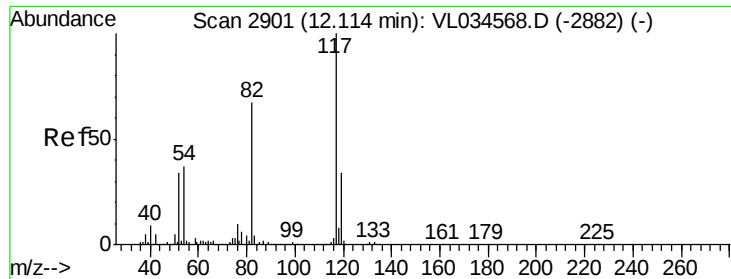
92 62.8 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

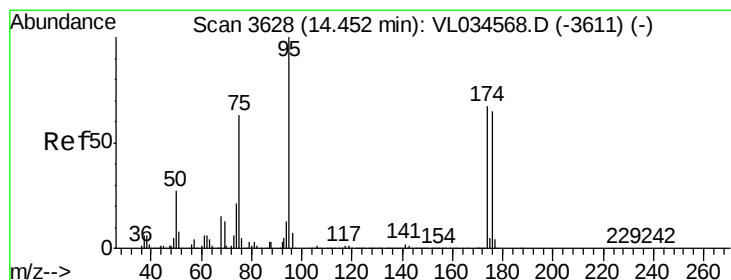
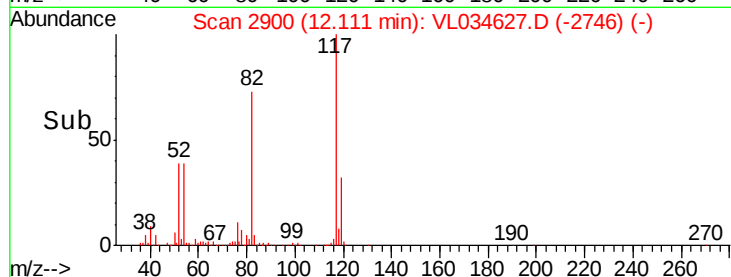
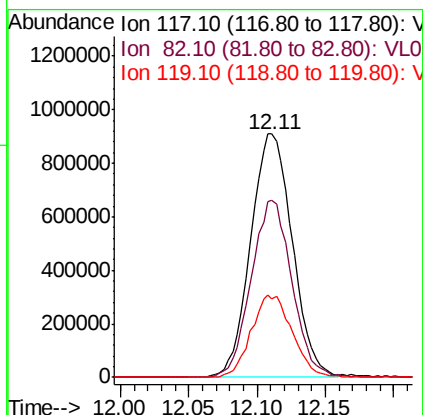
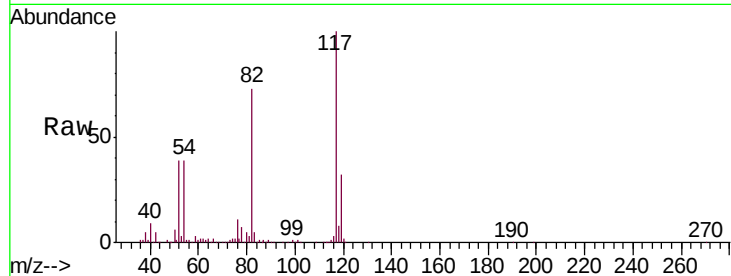




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tgt Ion: 117 Resp: 1930695
Ion Ratio Lower Upper
117 100
82 71.7 54.2 81.4
119 33.5 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion: 95 Resp: 1671340
Ion Ratio Lower Upper
95 100
174 65.7 52.3 78.5
175 4.5 3.8 5.6

