

Data File : VL034625.D
Acq On : 18 Feb 2020 15:42
Operator : SY/AP
Sample : L1532-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

Quant Time: Feb 19 06:03:51 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	5.66	49	938769	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1918837	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1899620	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1639709 10.21 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.10%

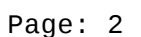
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	47319	0.229	ppbv #	86
3) Chlorodifluoromethane	2.95	51	46163	0.407	ppbv	96
4) Chloromethane	3.10	50	31200	0.450	ppbv #	80
9) Propene	2.99	41	67142	1.520	ppbv #	62
11) Trichlorofluoromethane	3.92	101	52884	0.282	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.46	101	4792	0.039	ppbv #	14
13) Ethanol	3.58	45	3739590	316.104	ppbv	98
15) Acetone	3.82	43	867473	6.287	ppbv	97
16) 1,3-Butadiene	3.27	39	2663	0.049	ppbv #	25
17) tert-Butyl alcohol	4.29	59	3636	0.036	ppbv #	71
19) Isopropyl Alcohol	3.96	45	178996	2.223	ppbv #	91
20) Methylene Chloride	4.32	84	98321	1.872	ppbv	94
23) Vinyl Acetate	5.04	43	18278	0.116	ppbv #	1
25) Ethyl Acetate	5.67	43	139420	0.624	ppbv	98
26) Hexane	5.67	57	43580	0.466	ppbv #	63
29) Chloroform	5.74	83	65410	0.395	ppbv #	80
31) cis-1,2-Dichloroethene	5.53	61	3936	0.040	ppbv	90
34) 2-Butanone	5.23	43	25192	0.181	ppbv	93
35) Carbon Tetrachloride	7.01	117	7992	0.044	ppbv #	61
36) Benzene	6.89	78	19117	0.112	ppbv #	88
39) 1,2-Dichloropropane	7.18	63	568451	8.036	ppbv #	19
52) Tetrachloroethene	11.24	164	12941	0.189	ppbv #	88
53) Toluene	9.81	91	18799	0.100	ppbv #	21

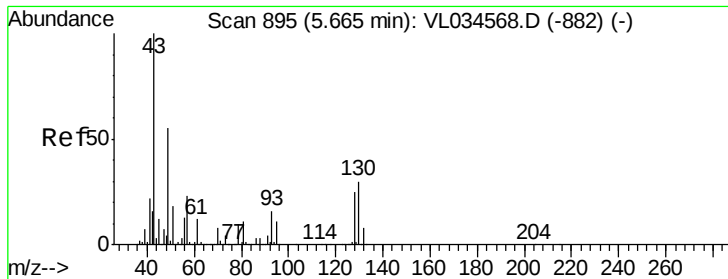
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL034625.D

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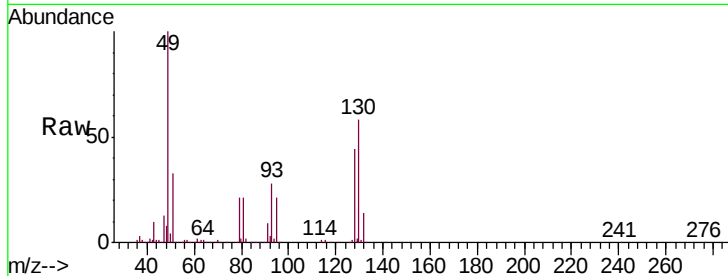
Tgt Ion: 49 Resp: 938769

Ion Ratio Lower Upper

49 100

128 47.1 22.7 68.1

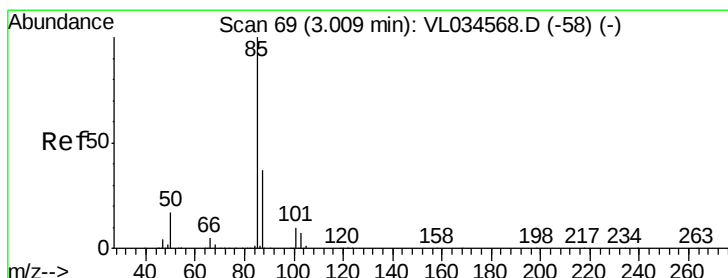
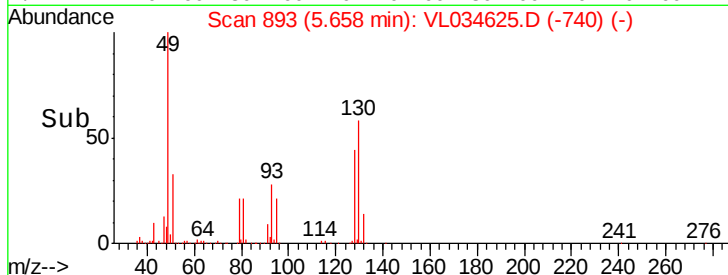
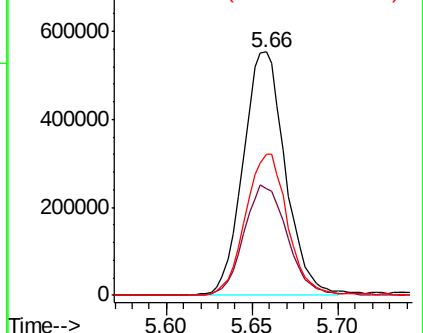
130 58.8 28.6 85.8



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: 0.229 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034625.D

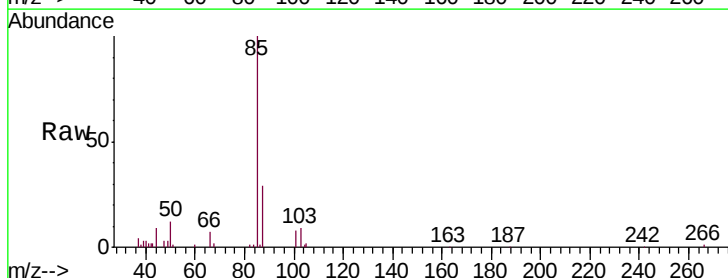
Acq: 18 Feb 2020 15:42

Tgt Ion: 85 Resp: 47319

Ion Ratio Lower Upper

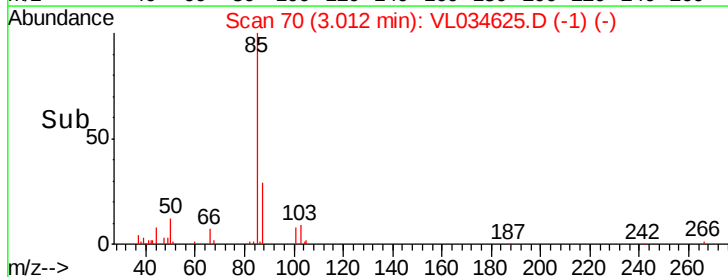
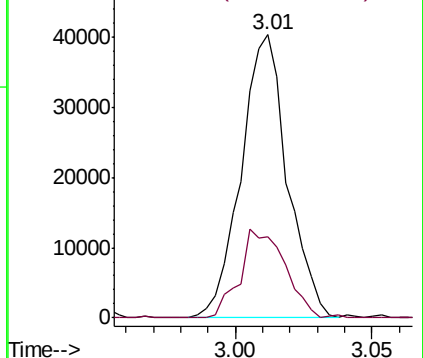
85 100

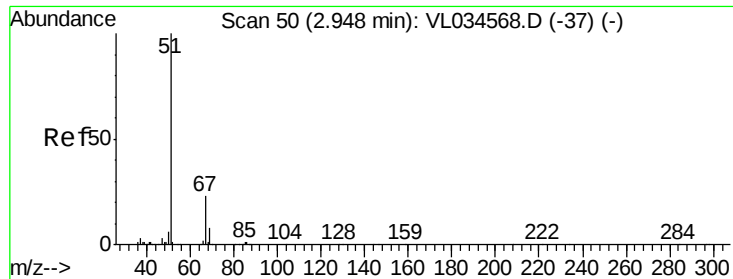
87 28.8 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.407 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

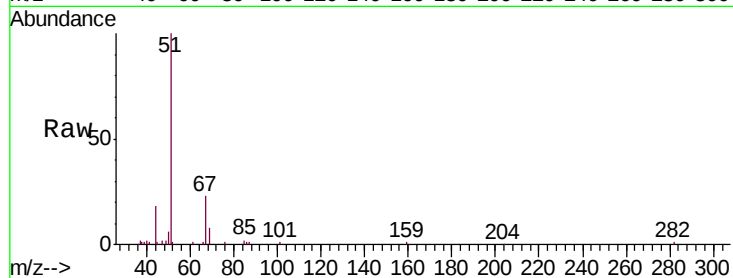
IR-BR-IA

Tgt Ion: 51 Resp: 46163

Ion Ratio Lower Upper

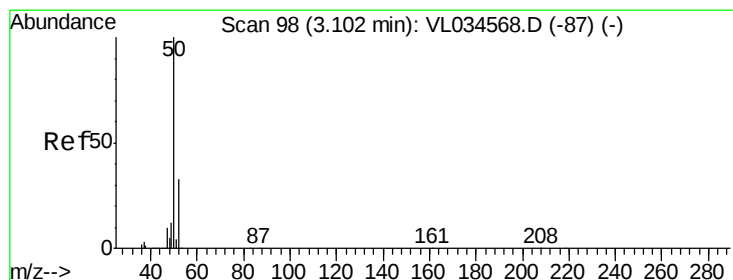
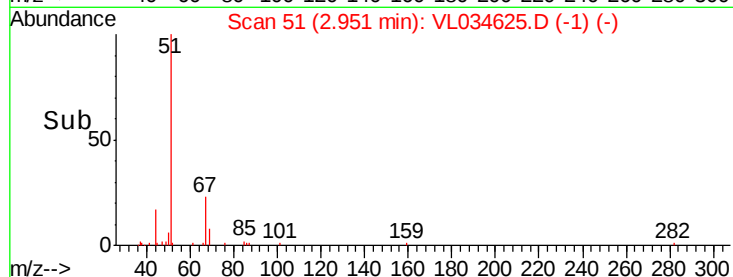
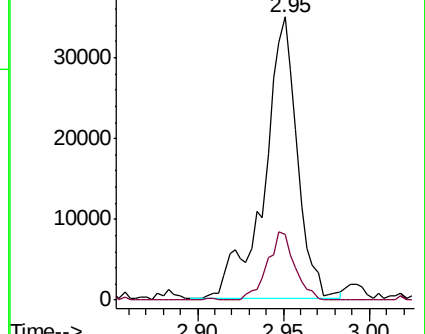
51 100

67 20.2 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: 0.450 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034625.D

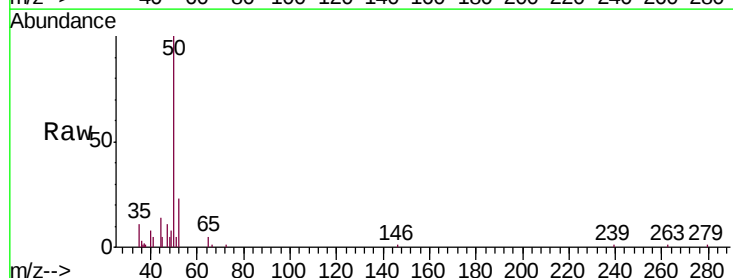
Acq: 18 Feb 2020 15:42

Tgt Ion: 50 Resp: 31200

Ion Ratio Lower Upper

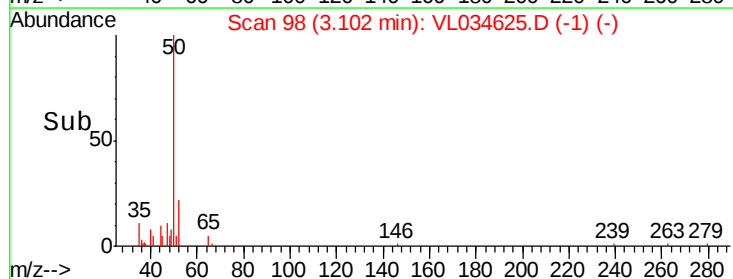
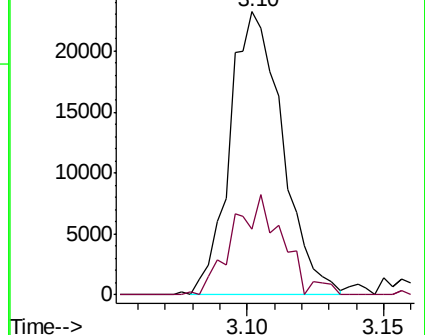
50 100

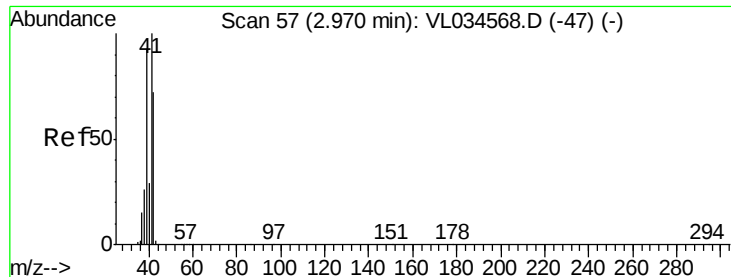
52 22.0 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.520 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

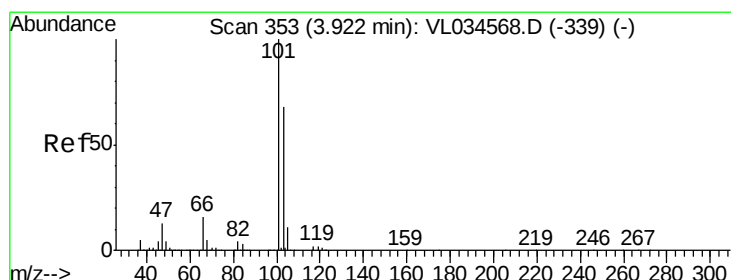
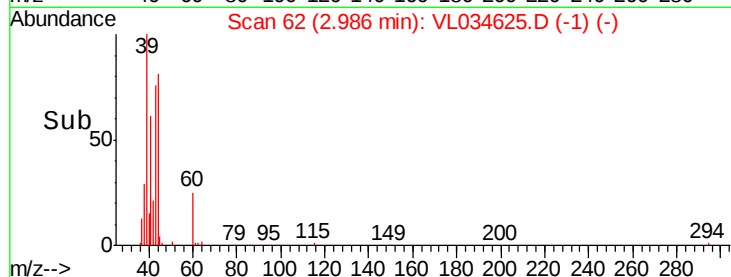
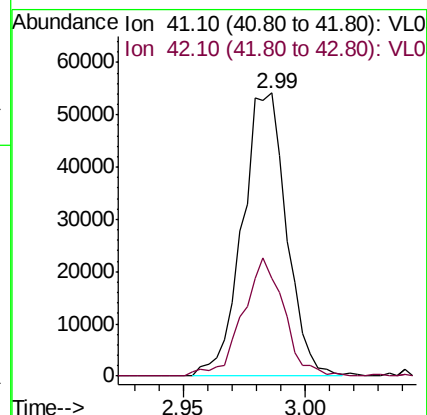
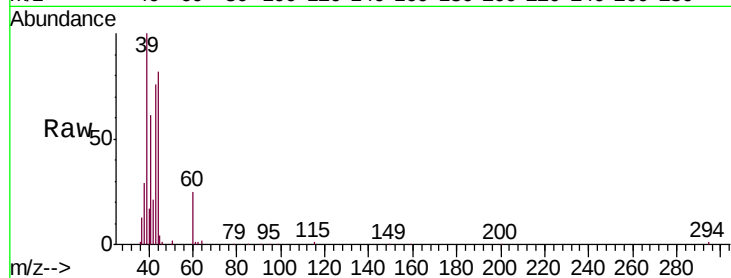
IR-BR-IA

Tgt Ion: 41 Resp: 67142

Ion Ratio Lower Upper

41 100

42 39.8 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.282 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.00 min

Lab File: VL034625.D

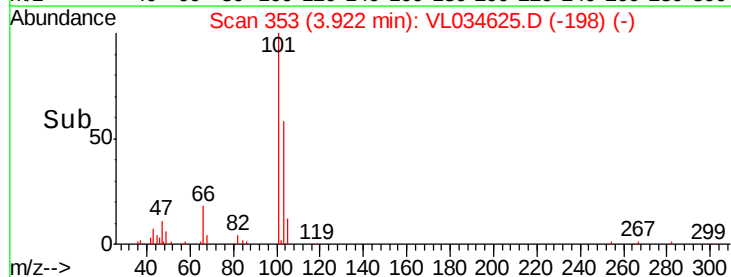
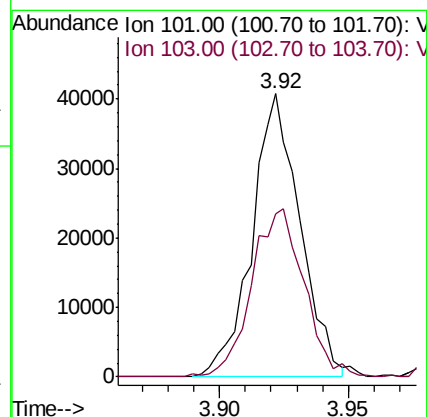
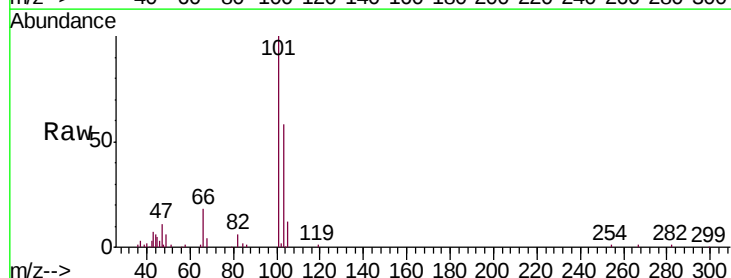
Acq: 18 Feb 2020 15:42

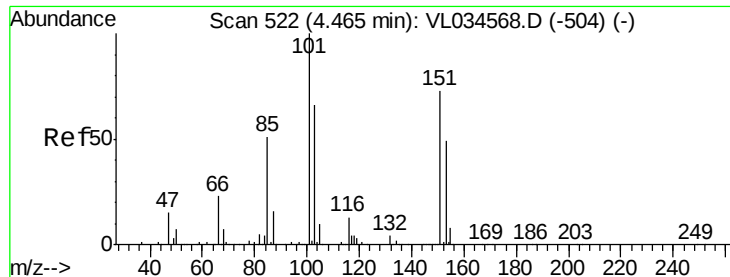
Tgt Ion: 101 Resp: 52884

Ion Ratio Lower Upper

101 100

103 56.8 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.01 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

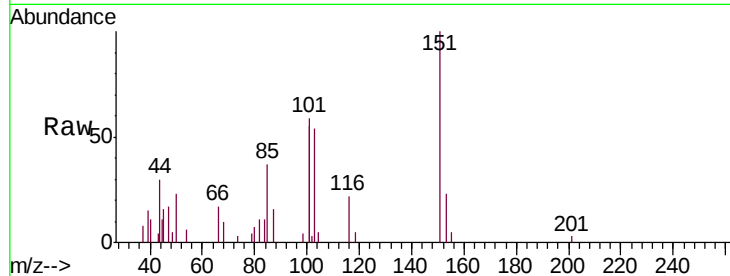
IR-BR-IA

Tgt Ion:101 Resp: 4792

Ion Ratio Lower Upper

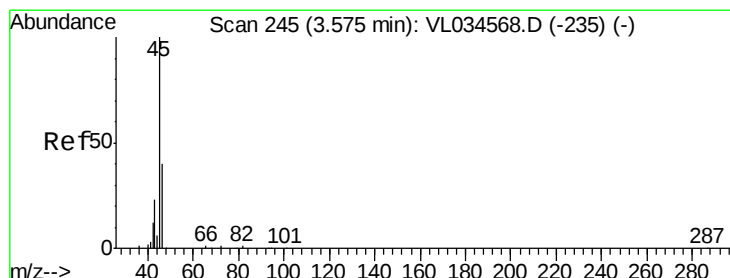
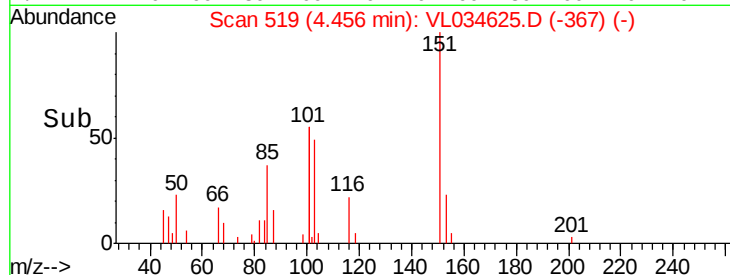
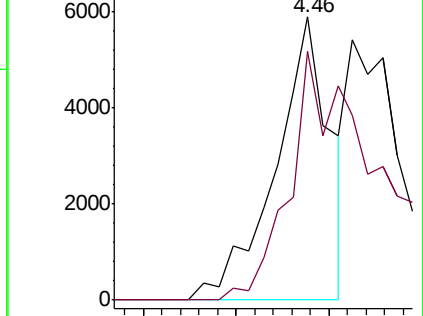
101 100

151 142.6 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: 316.104 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL034625.D

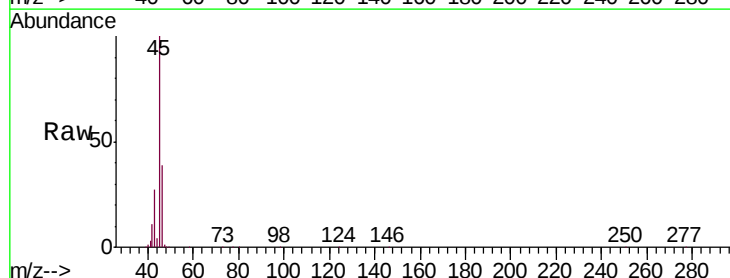
Acq: 18 Feb 2020 15:42

Tgt Ion: 45 Resp: 3739590

Ion Ratio Lower Upper

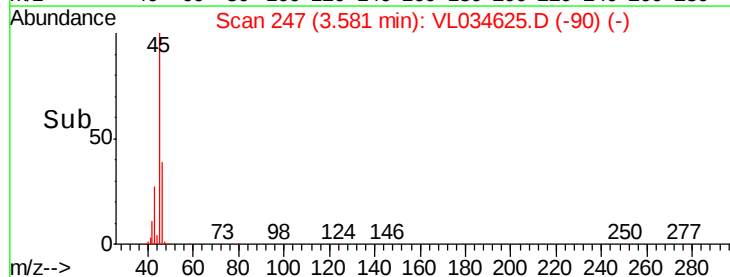
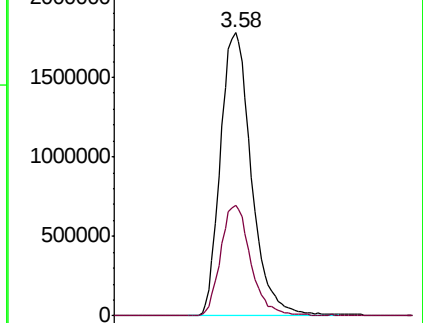
45 100

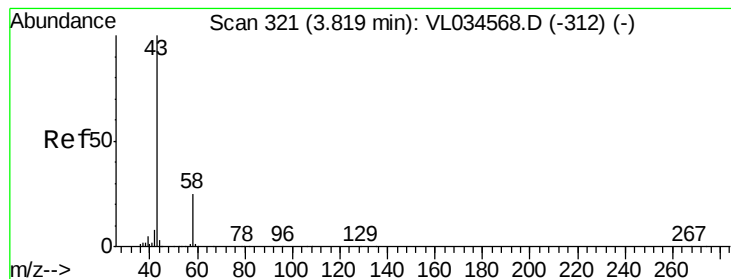
46 38.4 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.287 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

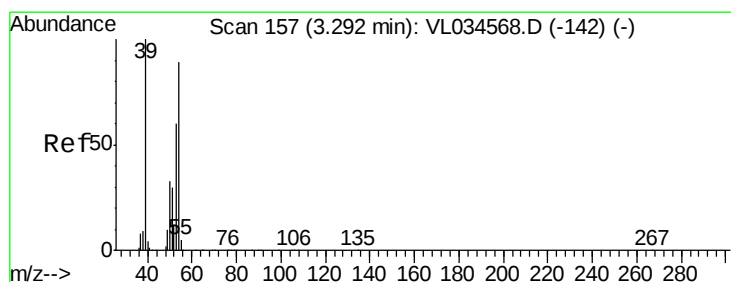
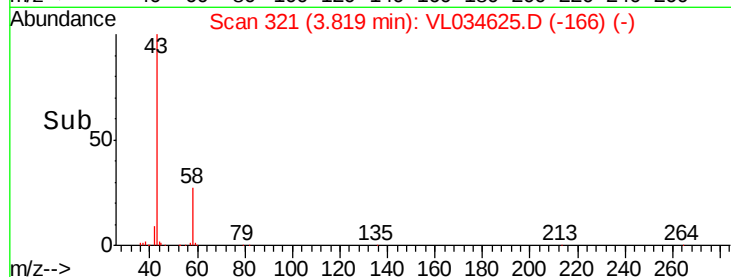
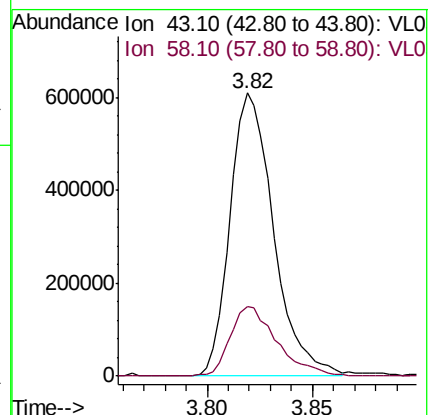
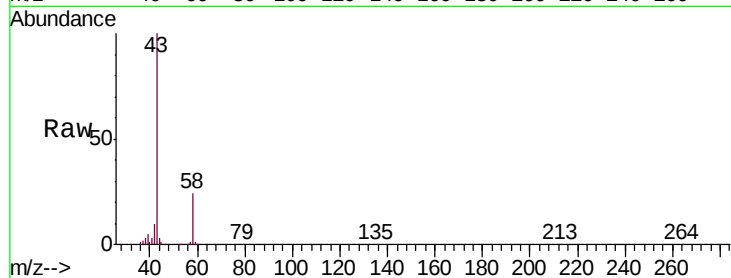
IR-BR-IA

Tgt Ion: 43 Resp: 867473

Ion Ratio Lower Upper

43 100

58 26.9 20.3 30.5



#16

1,3-Butadiene

Concen: 0.049 ppbv

RT: 3.27 min Scan# 151

Delta R.T. -0.02 min

Lab File: VL034625.D

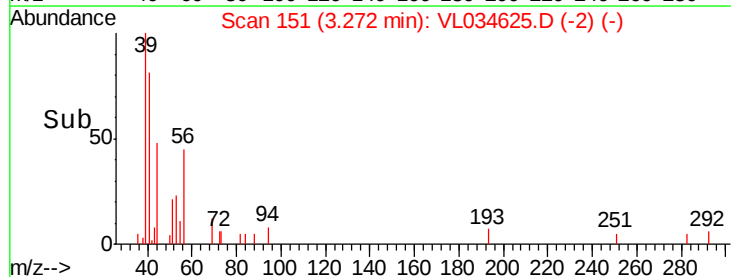
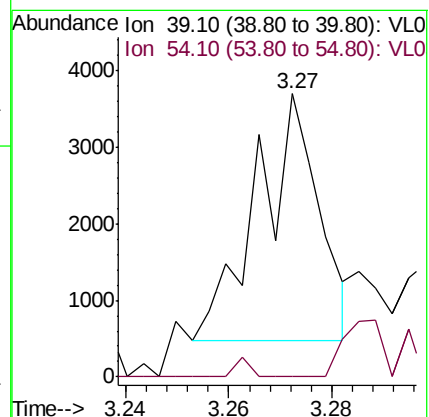
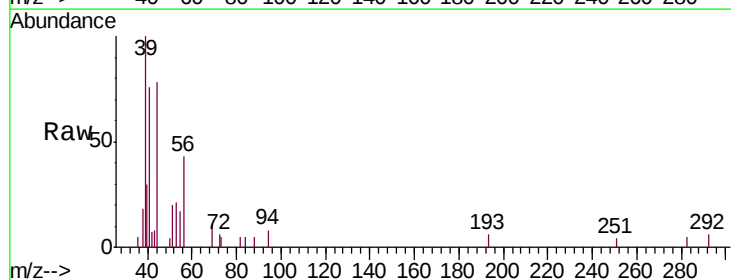
Acq: 18 Feb 2020 15:42

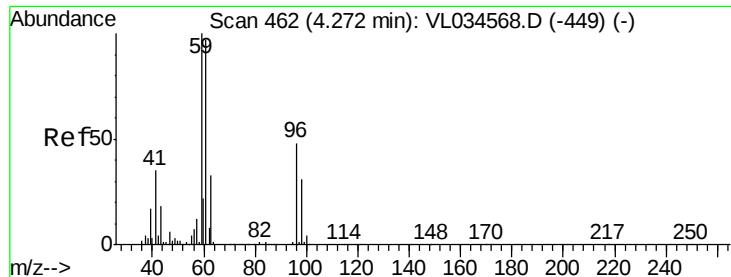
Tgt Ion: 39 Resp: 2663

Ion Ratio Lower Upper

39 100

54 16.1 66.7 100.1#





#17

tert-Butyl alcohol

Concen: 0.036 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

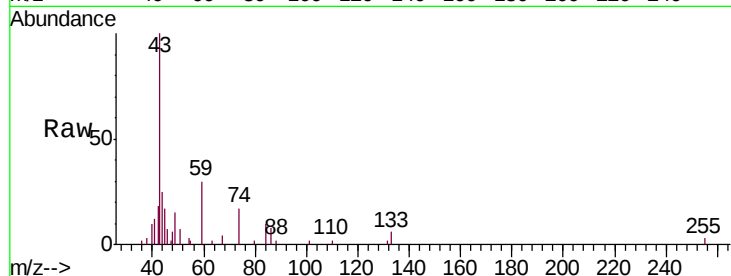
IR-BR-IA

Tgt Ion: 59 Resp: 3636

Ion Ratio Lower Upper

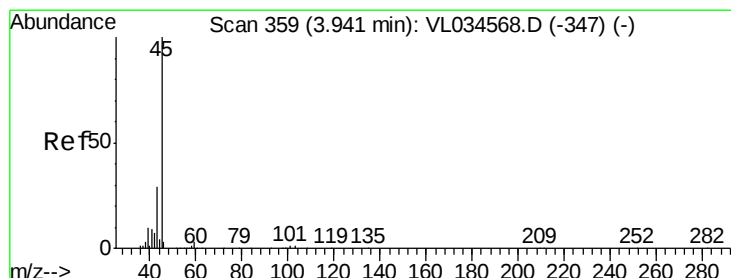
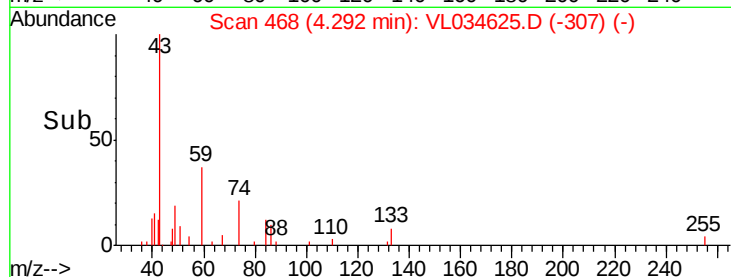
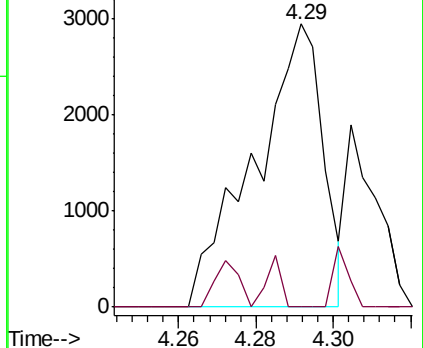
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 2.223 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034625.D

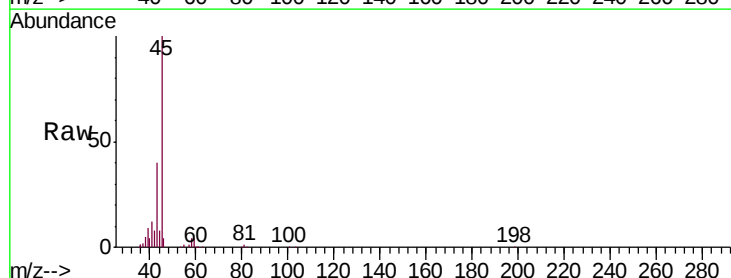
Acq: 18 Feb 2020 15:42

Tgt Ion: 45 Resp: 178996

Ion Ratio Lower Upper

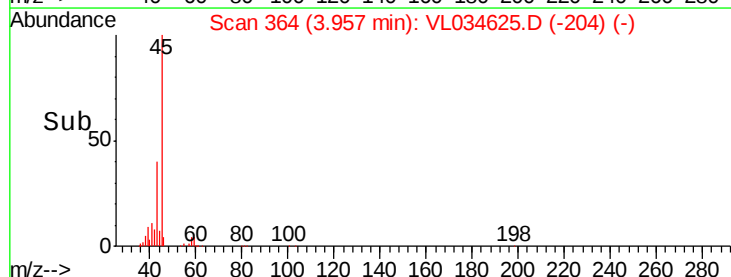
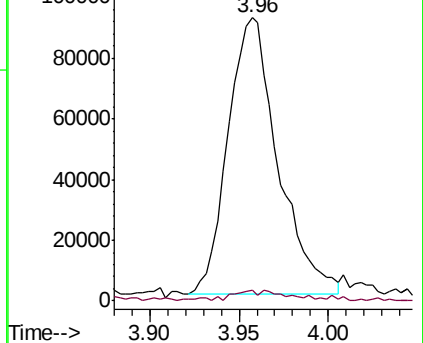
45 100

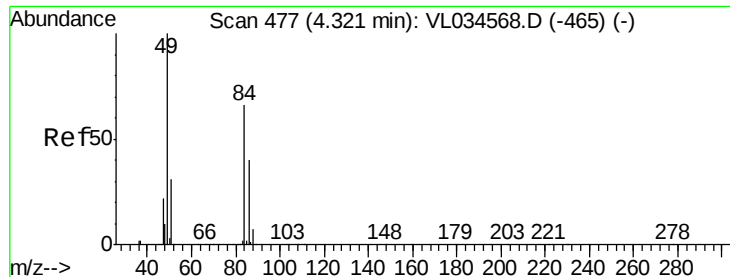
58 5.3 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

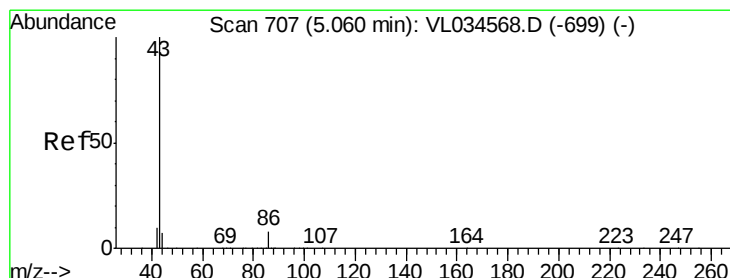
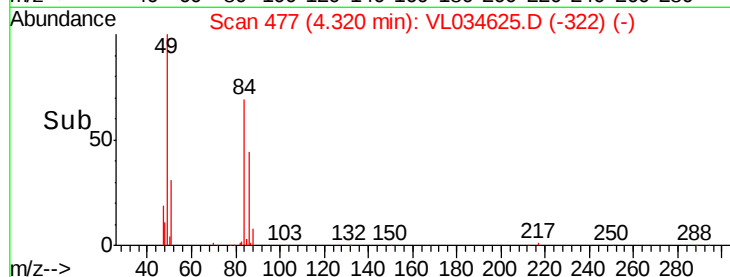
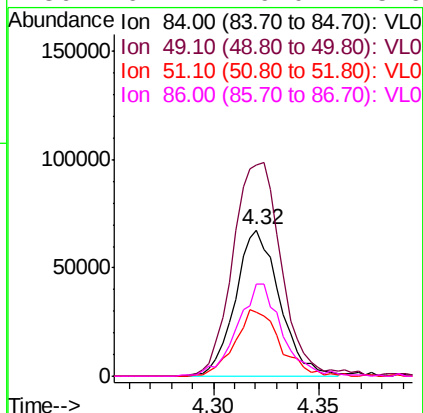
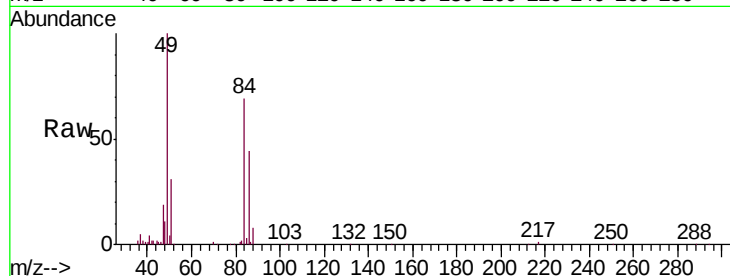




#20
Methylene Chloride
Concen: 1.872 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.00 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

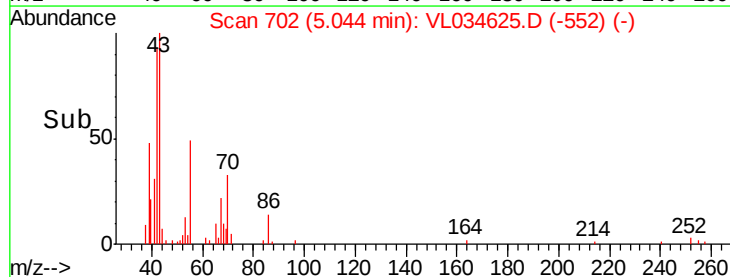
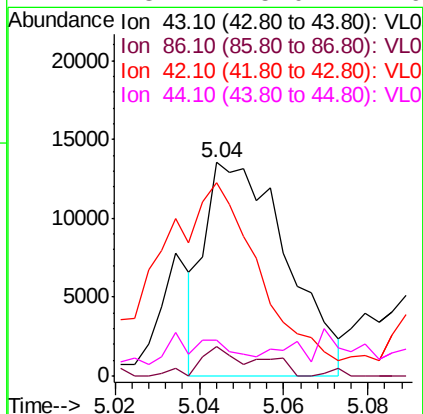
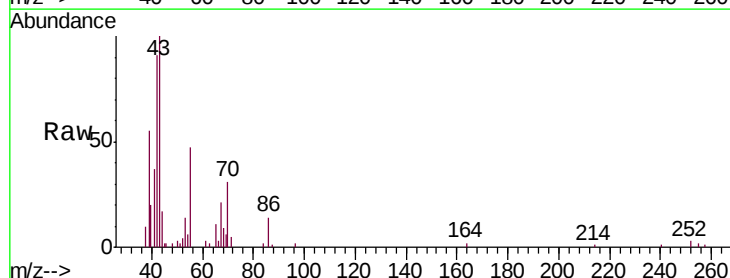
Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

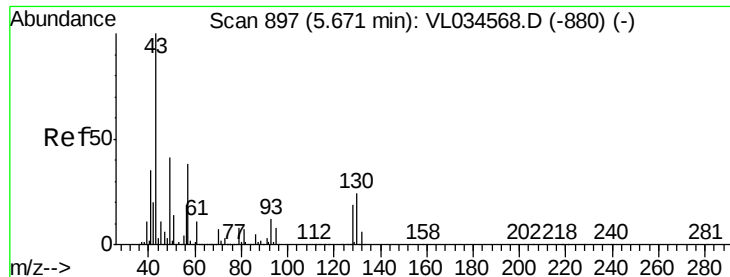
Tgt Ion:	84	Resp:	98321
Ion	Ratio	Lower	Upper
84	100		
49	143.6	122.4	183.6
51	43.6	38.6	57.8
86	62.7	49.0	73.6



#23
Vinyl Acetate
Concen: 0.116 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.02 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

Tgt Ion:	43	Resp:	18278
Ion	Ratio	Lower	Upper
43	100		
86	16.6	5.9	8.9#
42	101.0	8.8	13.2#
44	8.1	5.0	7.6#

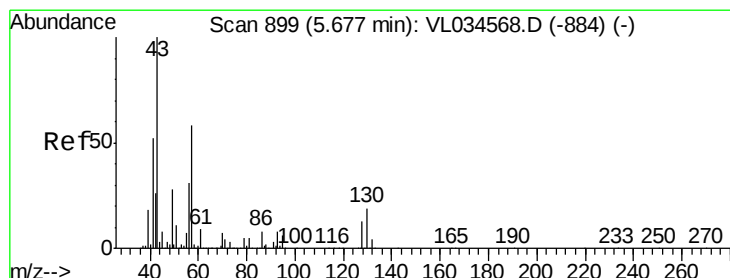
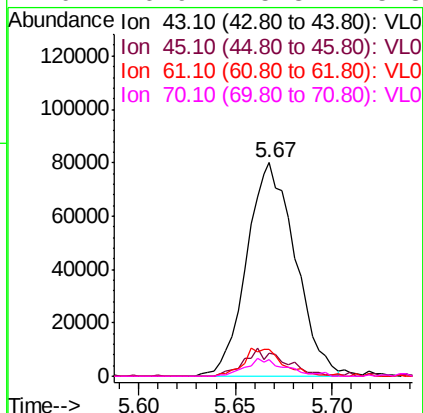
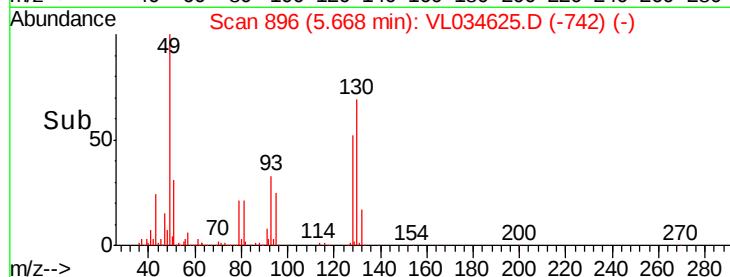
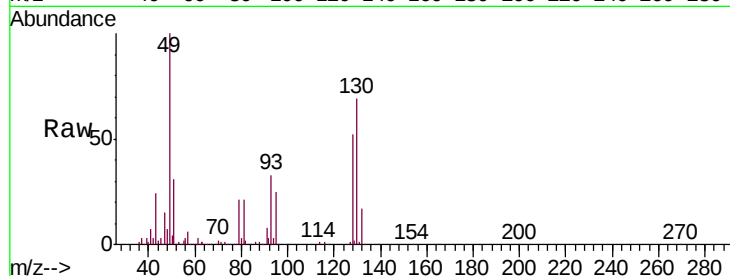




#25
Ethyl Acetate
Concen: 0.624 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

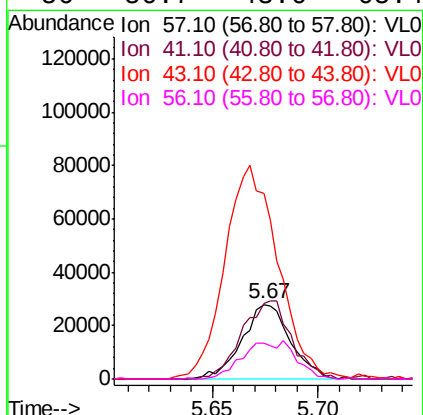
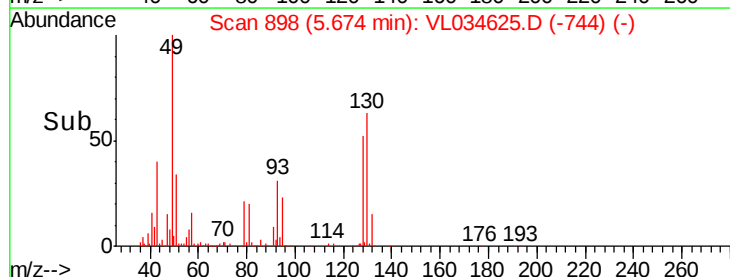
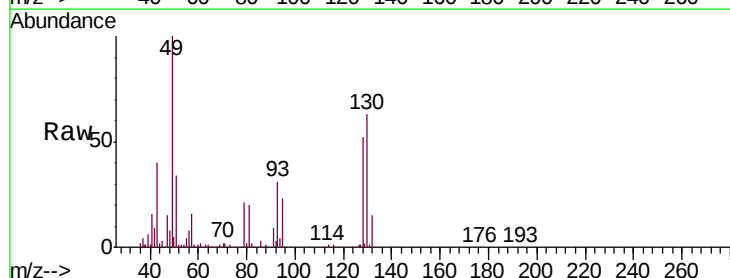
Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

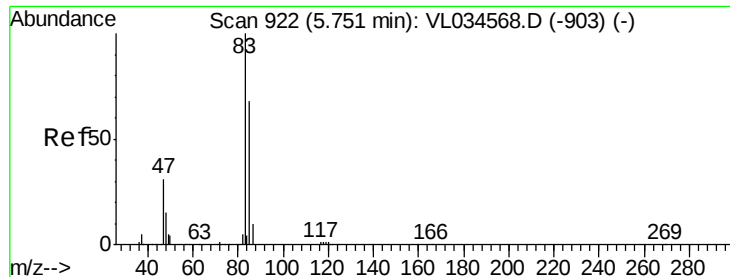
Tgt Ion:	43	Resp:	139420
Ion	Ratio	Lower	Upper
43	100		
45	11.5	8.5	12.7
61	10.9	7.8	11.6
70	6.9	5.8	8.8



#26
Hexane
Concen: 0.466 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

Tgt Ion:	57	Resp:	43580
Ion	Ratio	Lower	Upper
57	100		
41	112.3	76.2	114.2
43	324.8	189.9	284.9
56	56.7	43.6	65.4





#29

Chloroform

Concen: 0.395 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

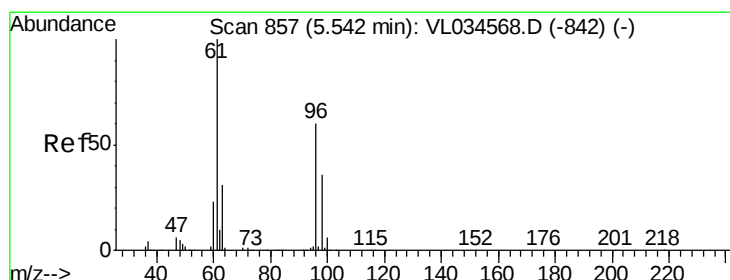
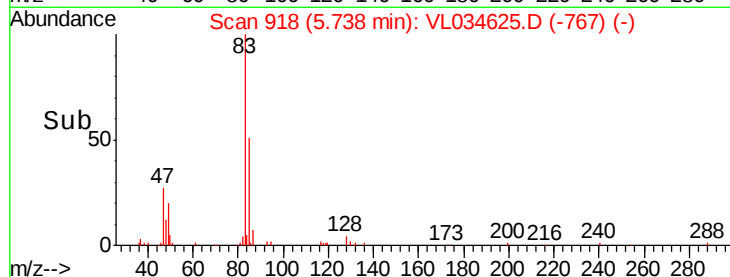
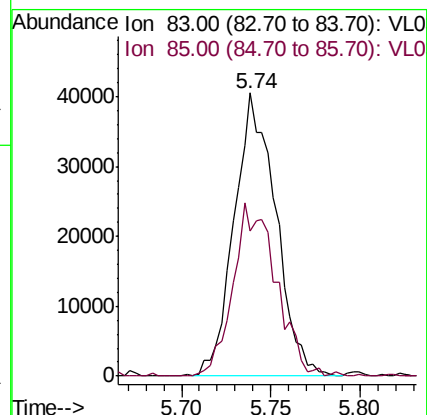
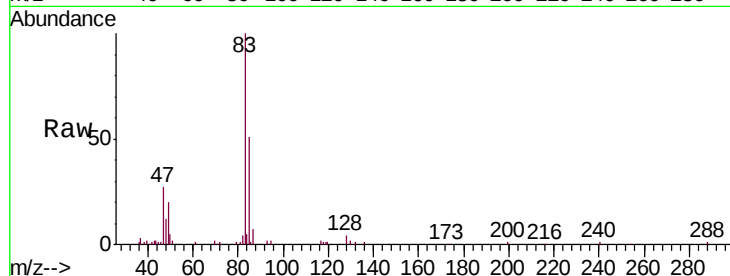
IR-BR-IA

Tgt Ion: 83 Resp: 65410

Ion Ratio Lower Upper

83 100

85 51.8 54.0 81.0#



#31

cis-1,2-Dichloroethene

Concen: 0.040 ppbv

RT: 5.53 min Scan# 853

Delta R.T. -0.01 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

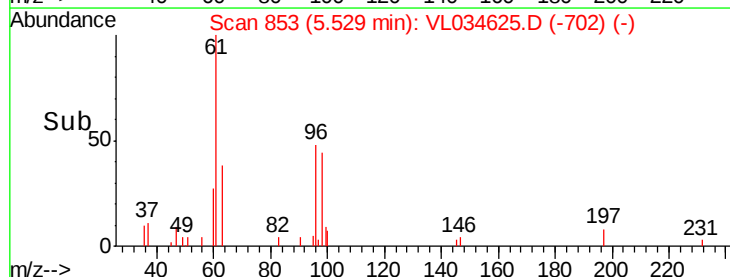
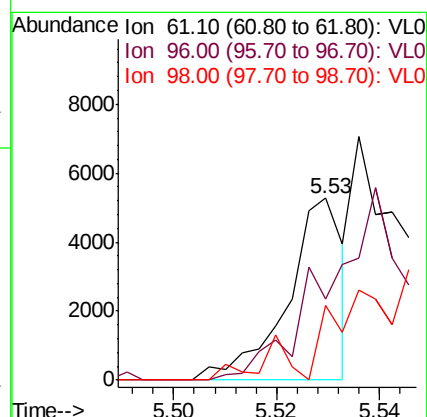
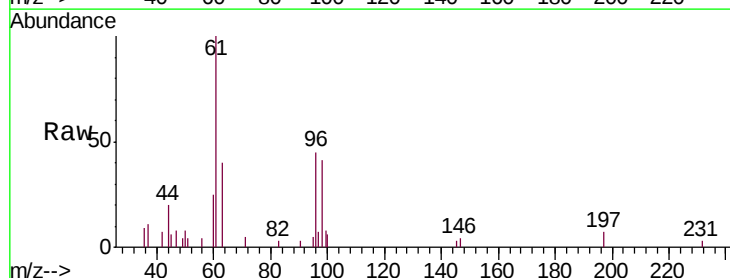
Tgt Ion: 61 Resp: 3936

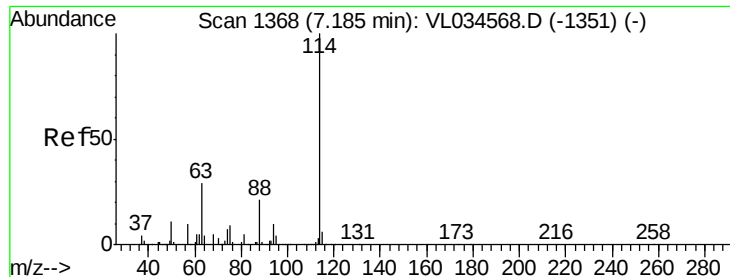
Ion Ratio Lower Upper

61 100

96 52.0 48.0 72.0

98 41.3 28.6 43.0

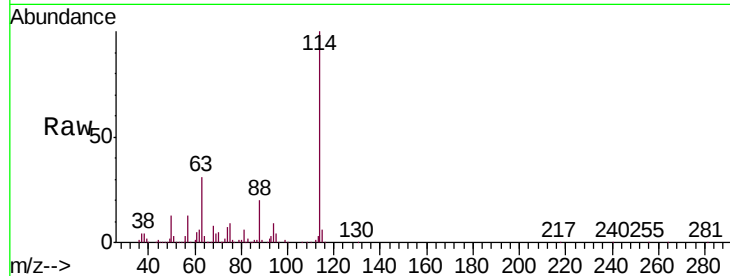




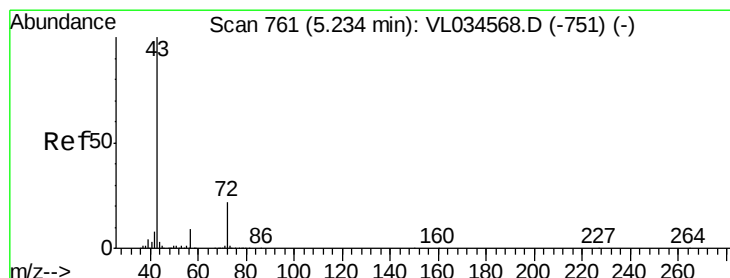
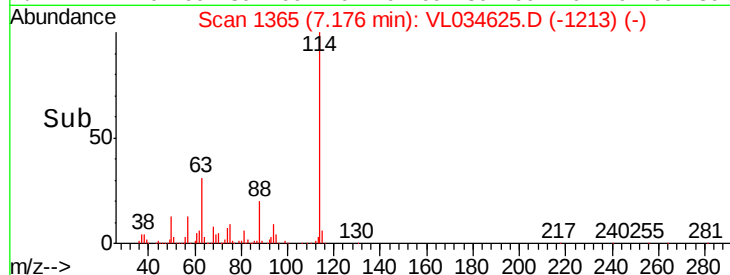
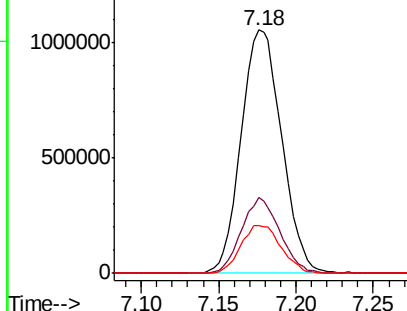
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034625.D
 Acq: 18 Feb 2020 15:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tgt Ion:114 Resp: 1918837
 Ion Ratio Lower Upper
 114 100
 63 29.7 24.1 36.1
 88 19.7 15.9 23.9

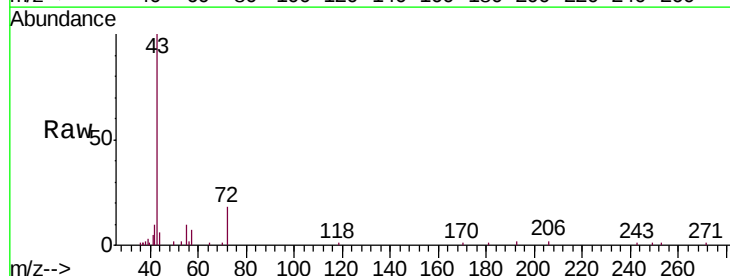


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

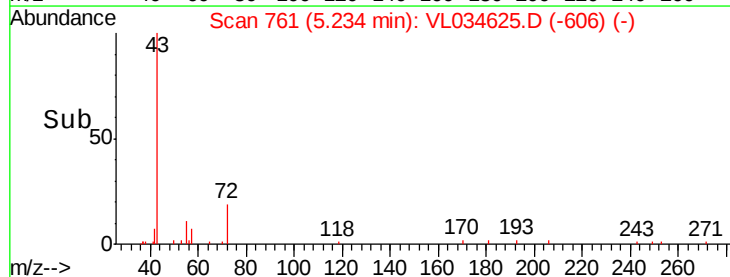
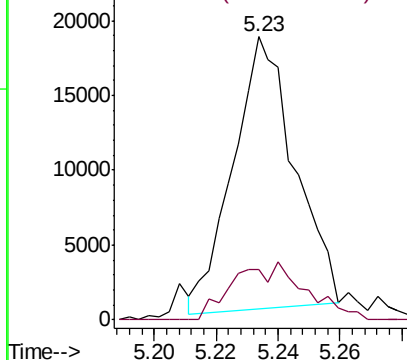


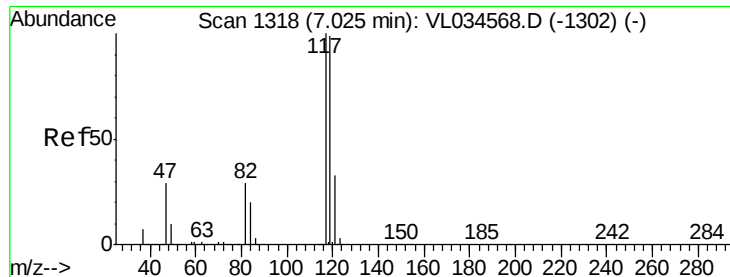
#34
 2-Butanone
 Concen: 0.181 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034625.D
 Acq: 18 Feb 2020 15:42

Tgt Ion: 43 Resp: 25192
 Ion Ratio Lower Upper
 43 100
 72 24.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

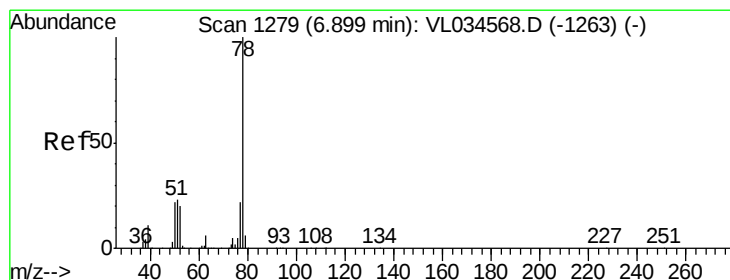
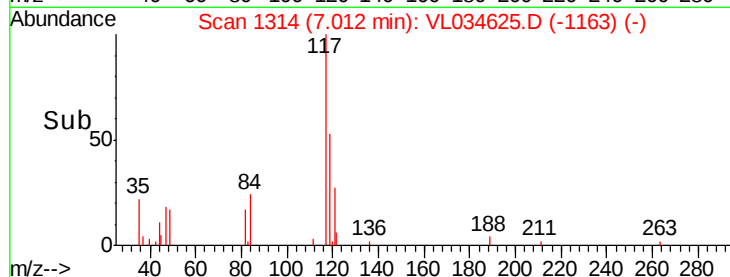
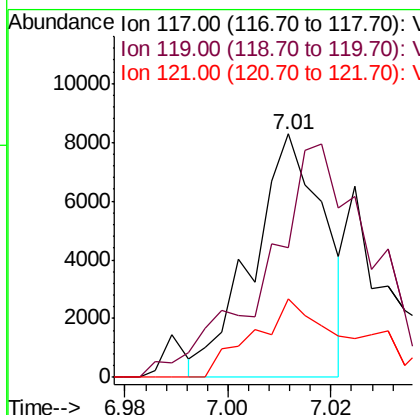
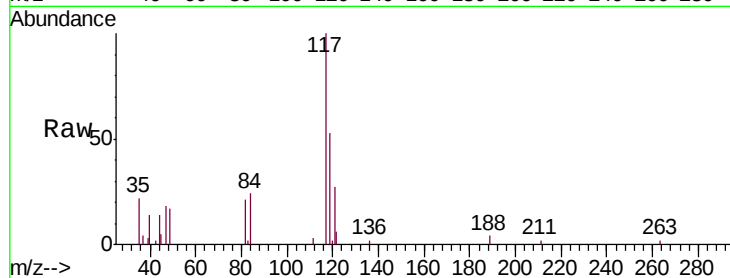




#35
Carbon Tetrachloride
Concen: 0.044 ppbv
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

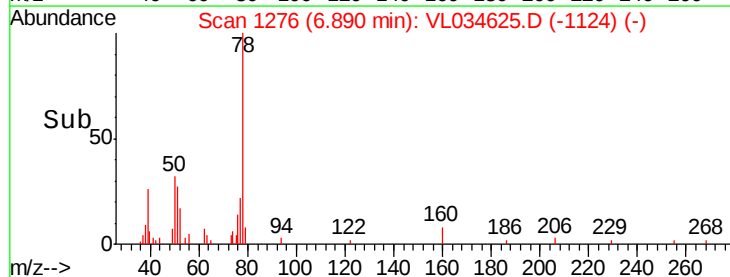
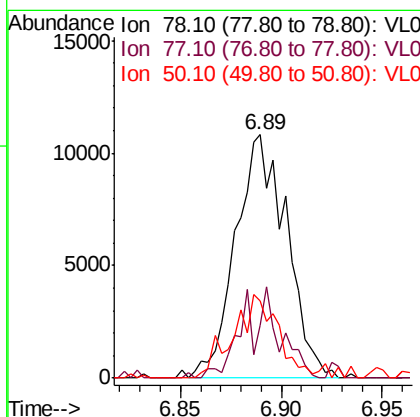
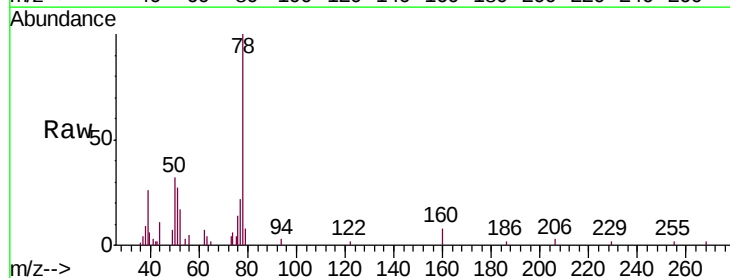
Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

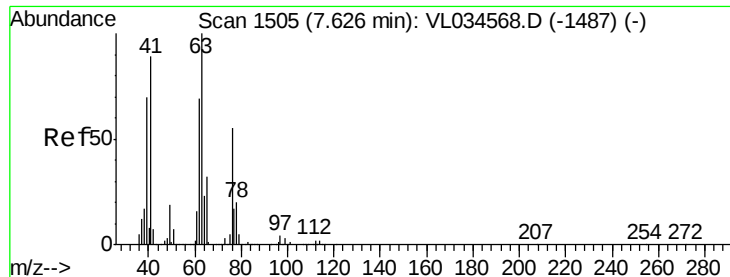
Tgt Ion: 117 Resp: 7992
Ion Ratio Lower Upper
117 100
119 49.1 79.5 119.3#
121 34.9 26.2 39.2



#36
Benzene
Concen: 0.112 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL034625.D
Acq: 18 Feb 2020 15:42

Tgt Ion: 78 Resp: 19117
Ion Ratio Lower Upper
78 100
77 19.9 17.3 25.9
50 31.8 17.4 26.2#

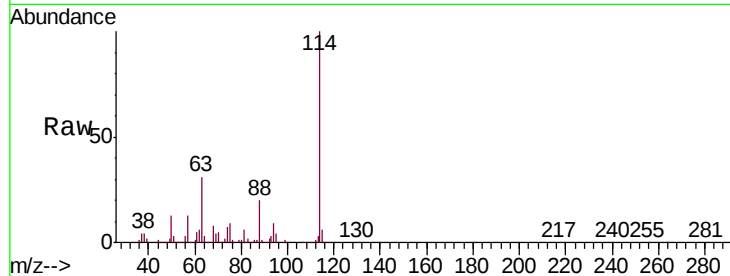




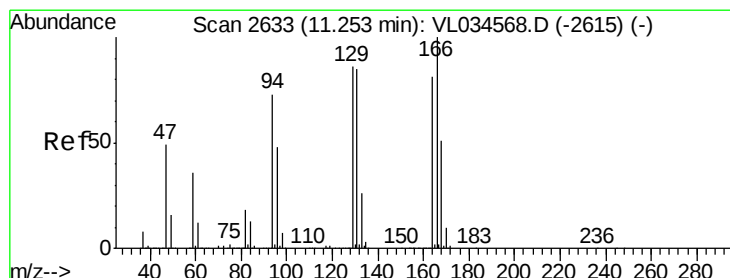
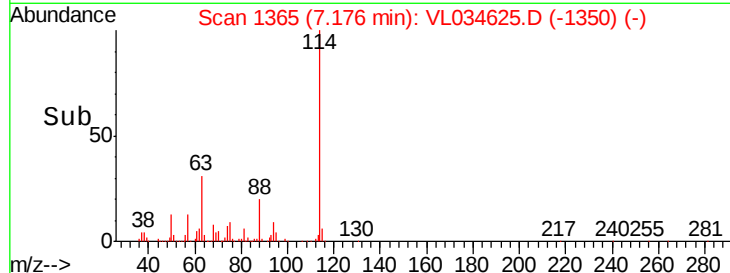
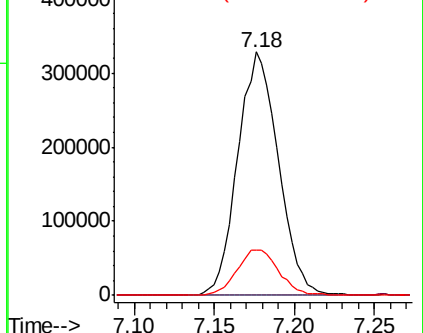
#39
 1,2-Dichloropropane
 Concen: 8.036 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034625.D
 Acq: 18 Feb 2020 15:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tgt Ion: 63 Resp: 568451
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 18.2 55.4 83.0#

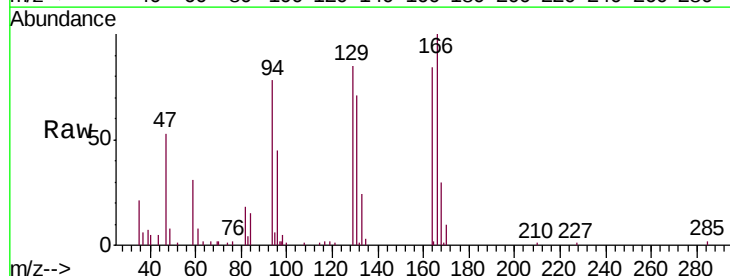


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

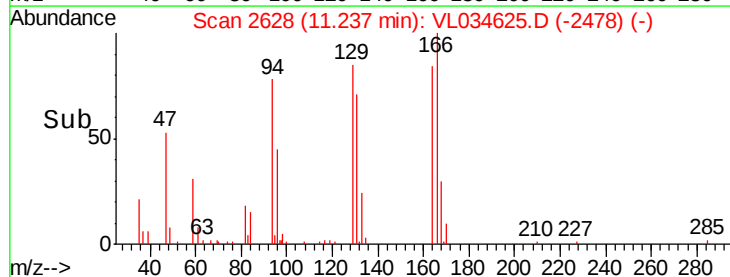
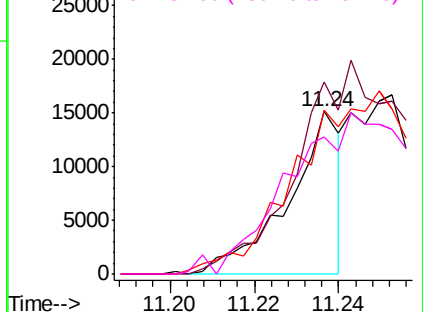


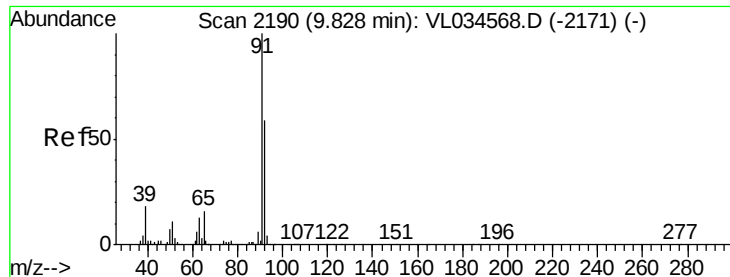
#52
 Tetrachloroethene
 Concen: 0.189 ppbv
 RT: 11.24 min Scan# 2628
 Delta R.T. -0.02 min
 Lab File: VL034625.D
 Acq: 18 Feb 2020 15:42

Tgt Ion: 164 Resp: 12941
 Ion Ratio Lower Upper
 164 100
 166 116.3 99.0 148.4
 129 96.5 85.3 127.9
 131 82.7 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: 0.100 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL034625.D

Acq: 18 Feb 2020 15:42

Instrument :

MSVOA_L

ClientSampleId :

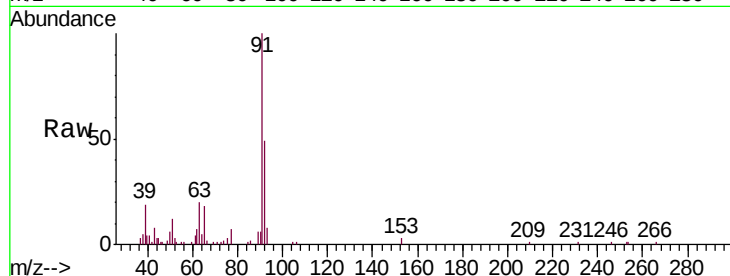
IR-BR-IA

Tgt Ion: 91 Resp: 18799

Ion Ratio Lower Upper

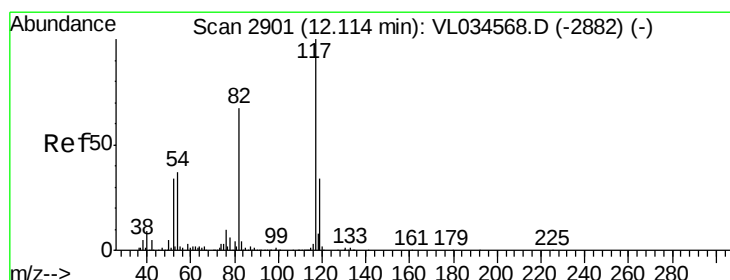
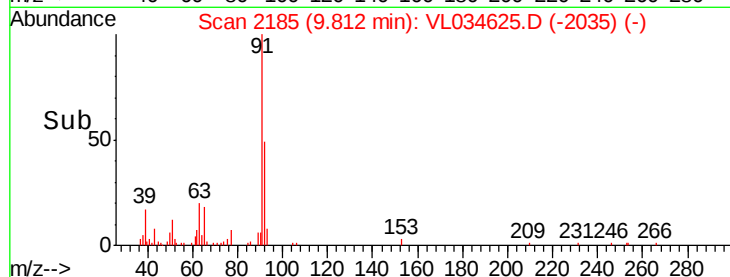
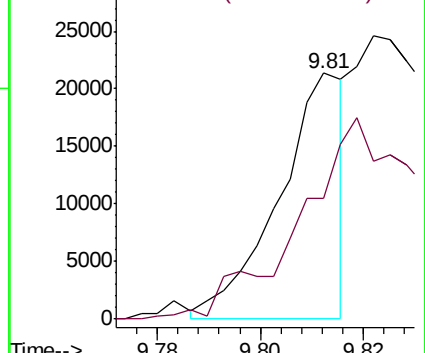
91 100

92 0.0 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: VL034625.D

Acq: 18 Feb 2020 15:42

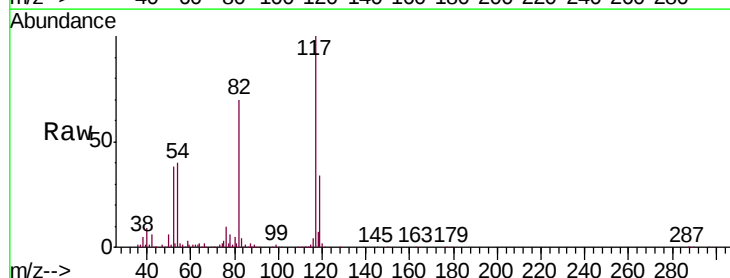
Tgt Ion: 117 Resp: 1899620

Ion Ratio Lower Upper

117 100

82 71.9 54.2 81.4

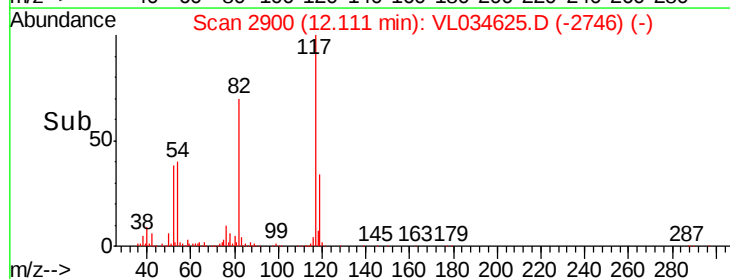
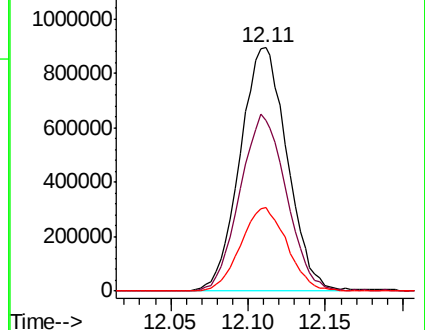
119 33.9 26.1 39.1

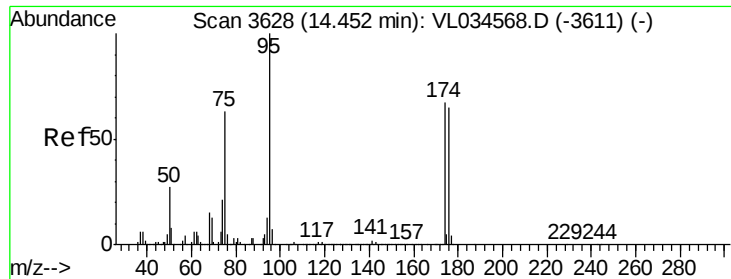


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

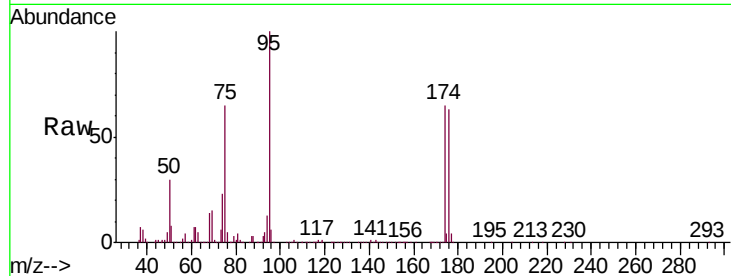




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.213 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034625.D
 Acq: 18 Feb 2020 15:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tgt Ion: 95 Resp: 1639709
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.3 78.5
 175 4.4 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

