

Data File : VL034721.D
Acq On : 27 Feb 2020 23:13
Operator : SY/AP
Sample : L1661-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-1-MAIN-ELECT-RMDL

Quant Time: Feb 28 01:11:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1169808	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2391950	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2360418	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1951532	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

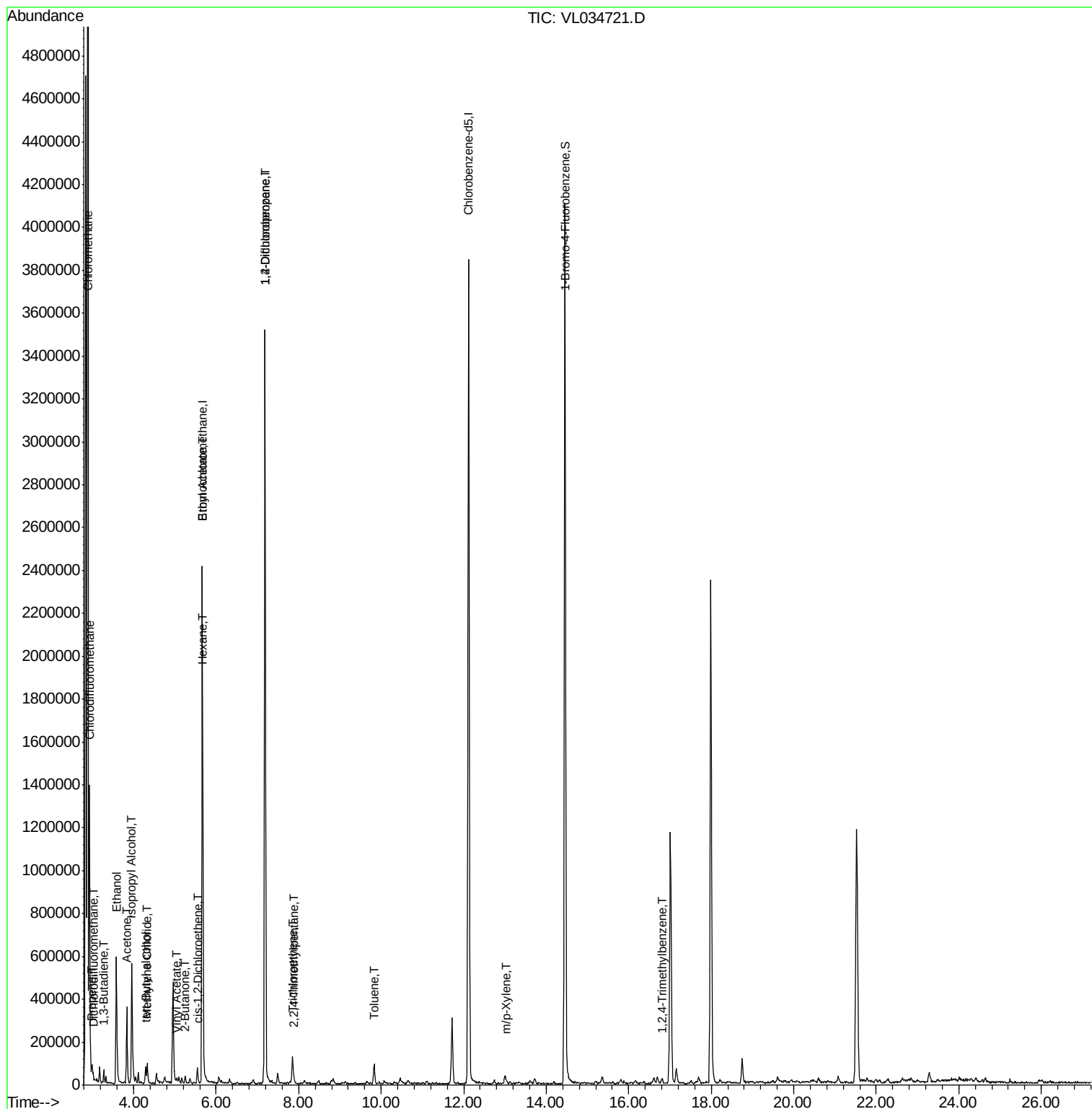
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	17834	0.097	ppbv #	79
3) Chlorodifluoromethane	2.93	51	807265	6.394	ppbv #	58
4) Chloromethane	2.89	50	352207	4.984	ppbv #	52
9) Propene	2.97	41	5683	0.108	ppbv #	2
13) Ethanol	3.58	45	572859	34.363	ppbv	98
15) Acetone	3.83	43	331497	2.487	ppbv	99
16) 1,3-Butadiene	3.28	39	8825	0.143	ppbv #	14
17) tert-Butyl alcohol	4.29	59	52305	0.512	ppbv #	91
19) Isopropyl Alcohol	3.95	45	605989	7.632	ppbv	100
20) Methylene Chloride	4.33	84	11597	0.234	ppbv	94
23) Vinyl Acetate	5.06	43	5832	0.032	ppbv #	51
25) Ethyl Acetate	5.67	43	7339	0.031	ppbv #	74
26) Hexane	5.68	57	16943	0.156	ppbv #	53
31) cis-1,2-Dichloroethene	5.55	61	37190	0.347	ppbv #	88
34) 2-Butanone	5.25	43	36427	0.242	ppbv	100
38) Trichloroethene	7.84	130	17120	0.215	ppbv	83
39) 1,2-Dichloropropane	7.19	63	673347	8.192	ppbv #	23
44) 2,2,4-Trimethylpentane	7.88	57	8922	0.025	ppbv #	1
53) Toluene	9.83	91	35008	0.159	ppbv #	20
59) m/p-Xylene	13.03	91	6350	0.025	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.81	105	6627	0.023	ppbv #	69

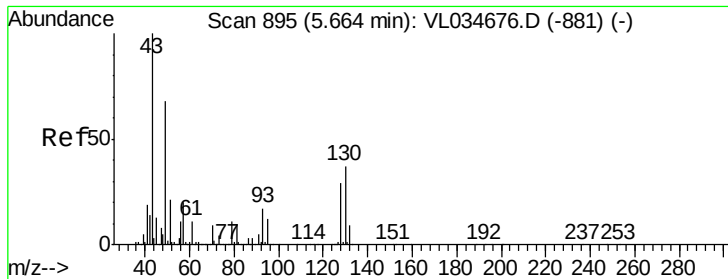
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034721.D

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Instrument :

MSVOA_L

ClientSampleId :

SG-1-MAIN-ELECT-RMDL

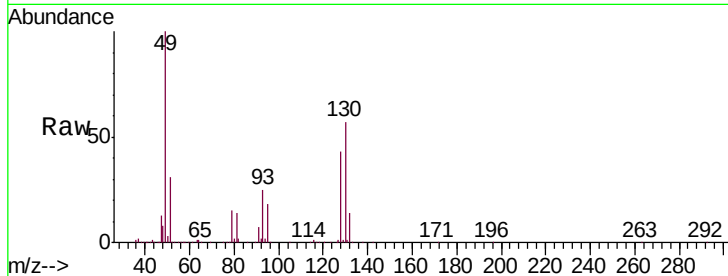
Tgt Ion: 49 Resp: 1169808

Ion Ratio Lower Upper

49 100

128 43.5 21.6 65.0

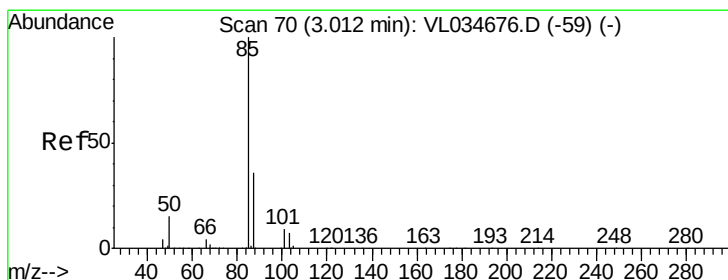
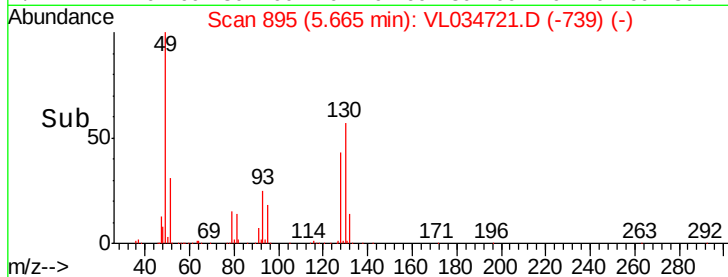
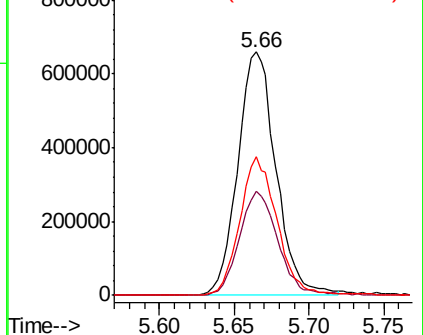
130 56.2 27.7 83.1



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



#2

Dichlorodifluoromethane

Concen: 0.097 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034721.D

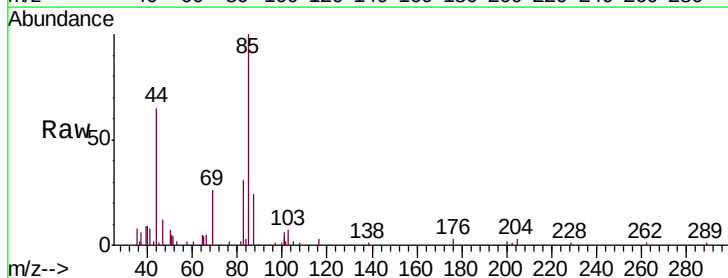
Acq: 27 Feb 2020 23:13

Tgt Ion: 85 Resp: 17834

Ion Ratio Lower Upper

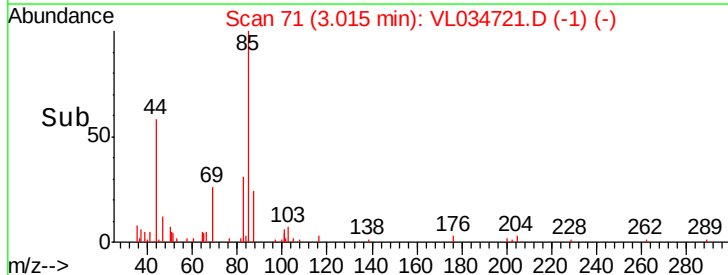
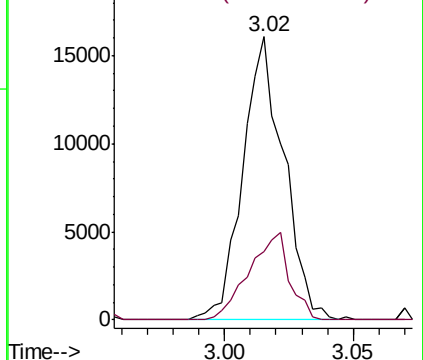
85 100

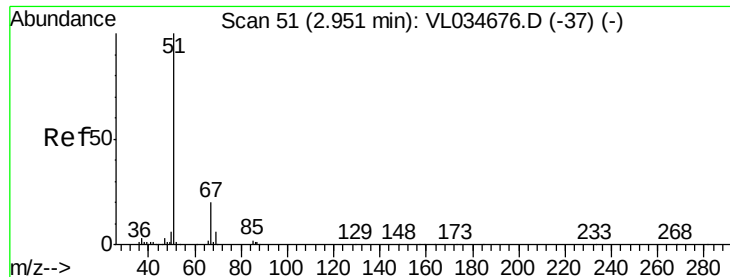
87 24.0 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.394 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.02 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

MSVOA_L

ClientSampleId :

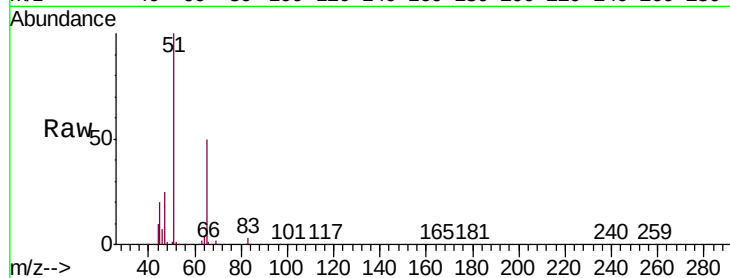
SG-1-MAIN-ELECT-RMDL

Tgt Ion: 51 Resp: 807265

Ion Ratio Lower Upper

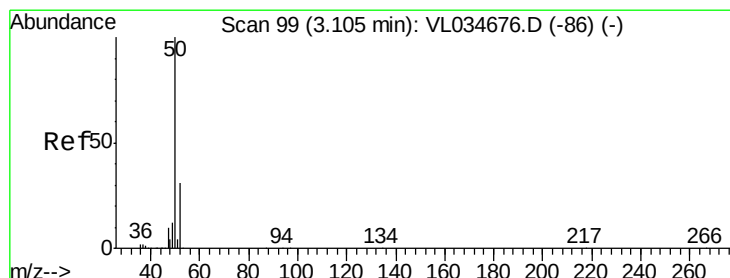
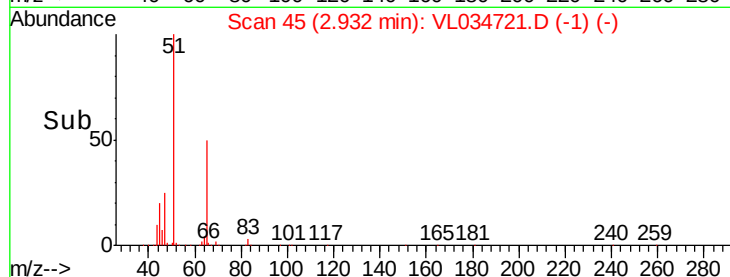
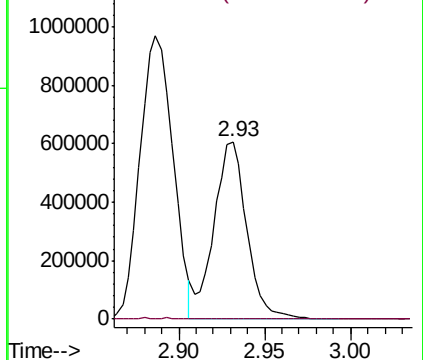
51 100

67 0.5 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 4.984 ppbv

RT: 2.89 min Scan# 31

Delta R.T. -0.22 min

Lab File: VL034721.D

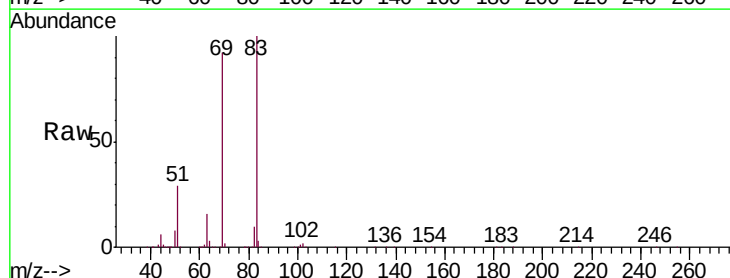
Acq: 27 Feb 2020 23:13

Tgt Ion: 50 Resp: 352207

Ion Ratio Lower Upper

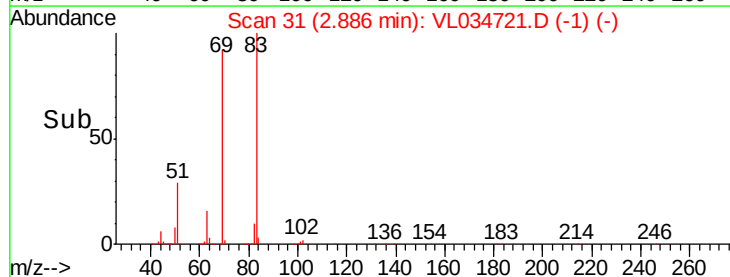
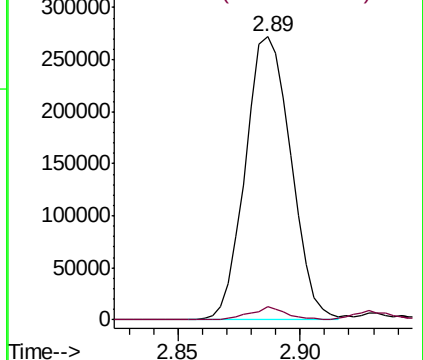
50 100

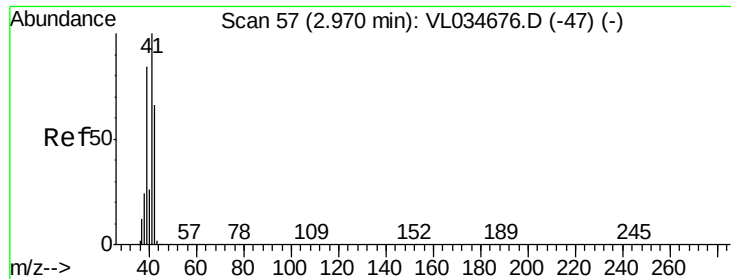
52 4.7 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.108 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

MSVOA_L

ClientSampleId :

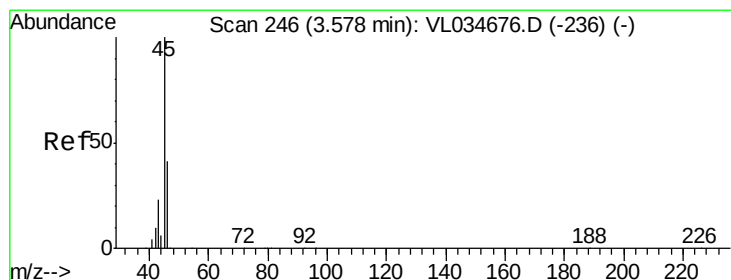
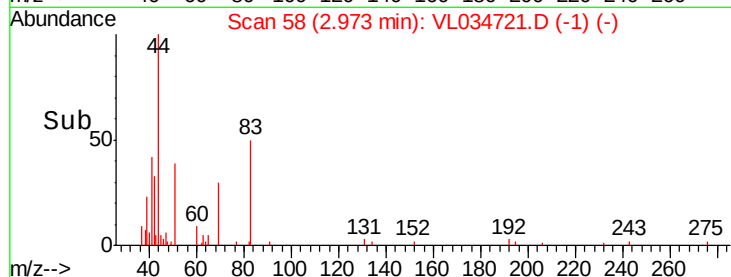
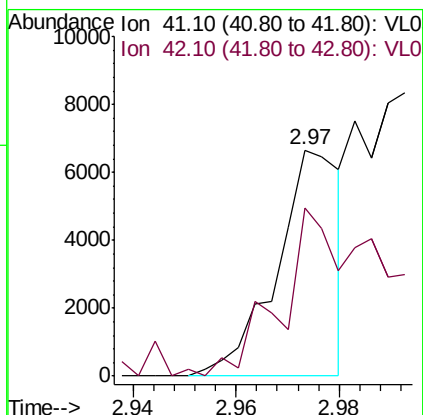
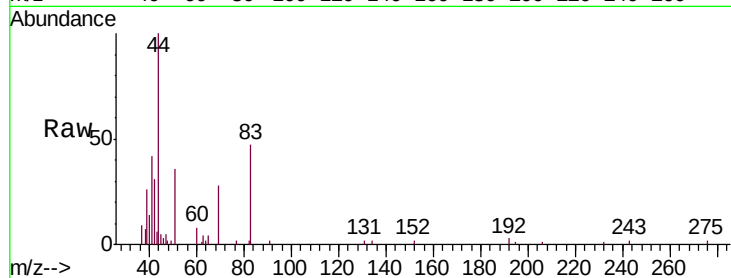
SG-1-MAIN-ELECT-RMDL

Tgt Ion: 41 Resp: 5683

Ion Ratio Lower Upper

41 100

42 148.1 54.9 82.3#



#13

Ethanol

Concen: 34.363 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL034721.D

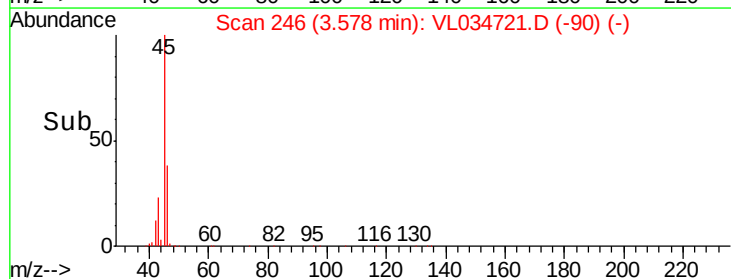
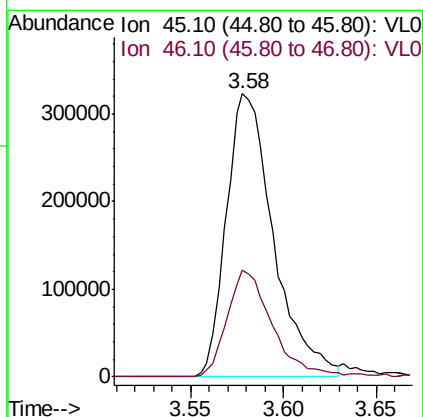
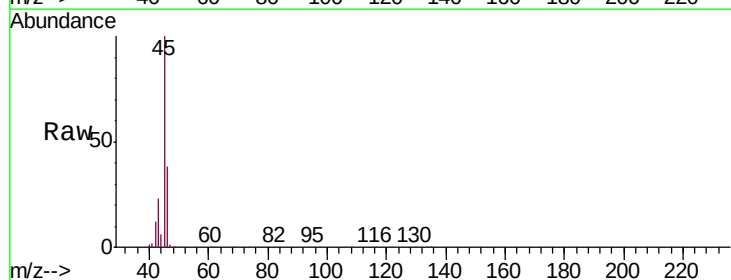
Acq: 27 Feb 2020 23:13

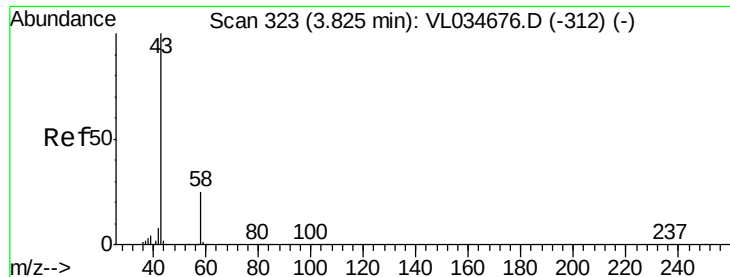
Tgt Ion: 45 Resp: 572859

Ion Ratio Lower Upper

45 100

46 37.2 15.4 61.4





#15

Acetone

Concen: 2.487 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

MSVOA_L

ClientSampleId :

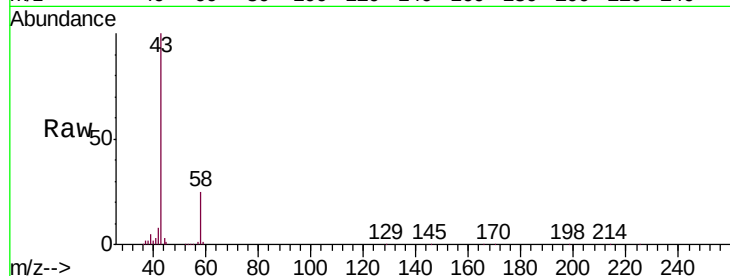
SG-1-MAIN-ELECT-RMDL

Tgt Ion: 43 Resp: 331497

Ion Ratio Lower Upper

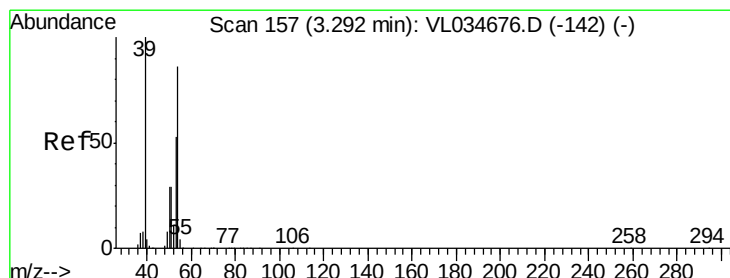
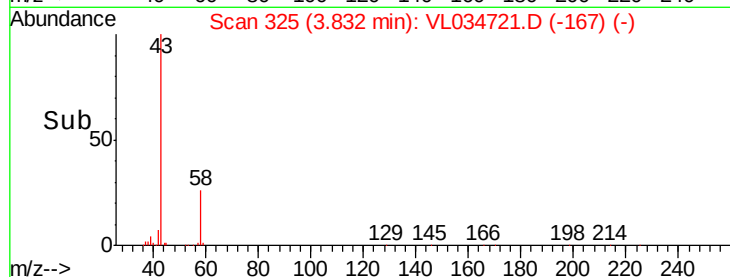
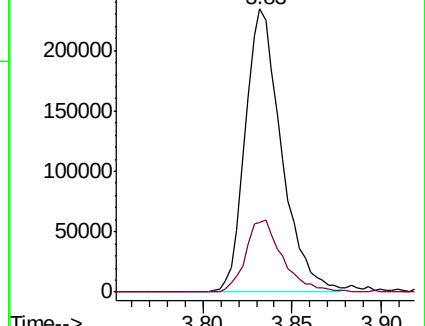
43 100

58 26.3 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.143 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.01 min

Lab File: VL034721.D

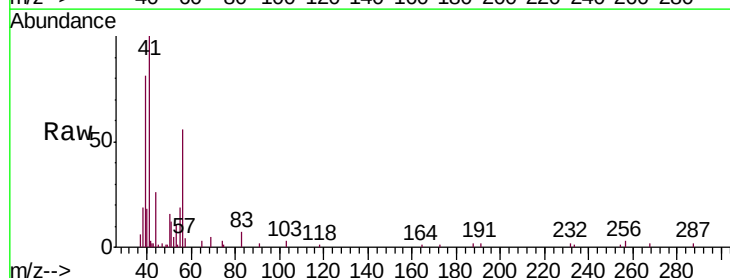
Acq: 27 Feb 2020 23:13

Tgt Ion: 39 Resp: 8825

Ion Ratio Lower Upper

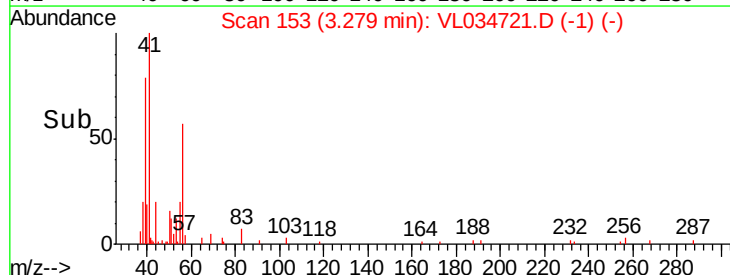
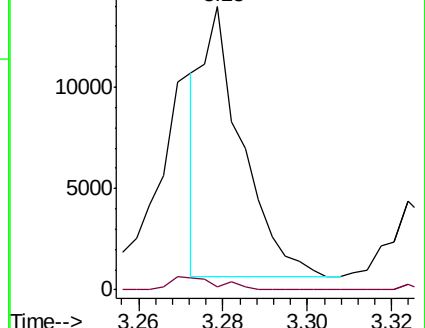
39 100

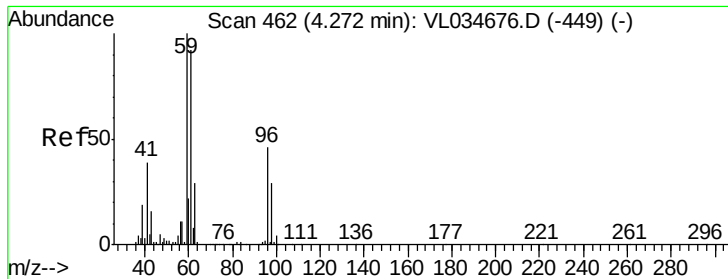
54 5.9 67.0 100.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.512 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

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ClientSampleId :

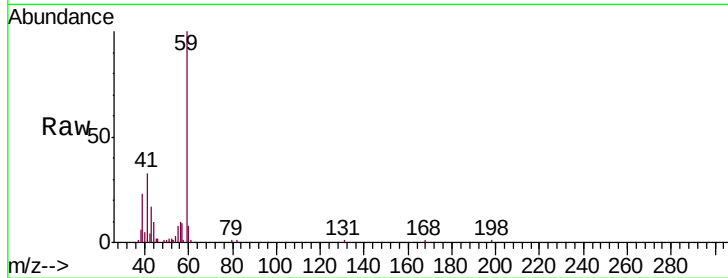
SG-1-MAIN-ELECT-RMDL

Tgt Ion: 59 Resp: 52305

Ion Ratio Lower Upper

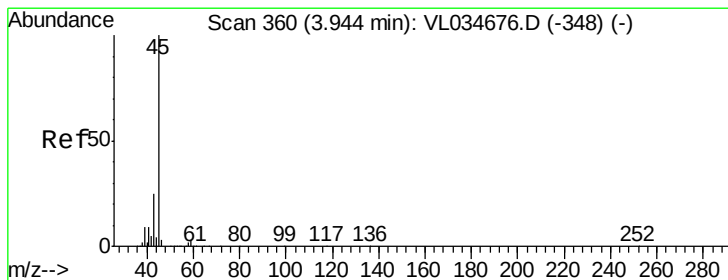
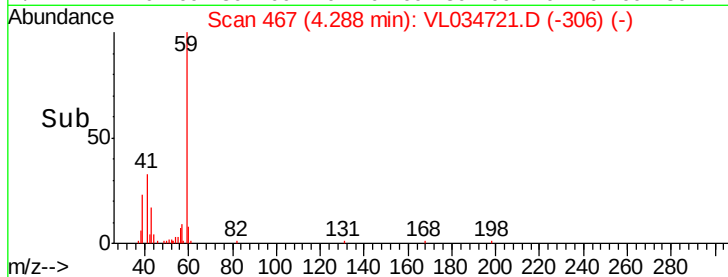
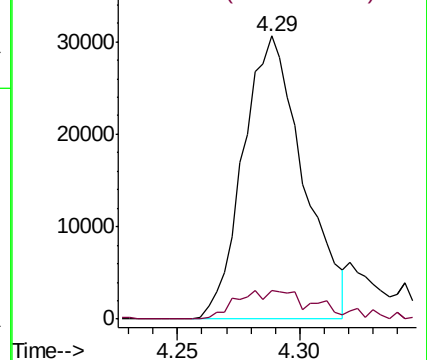
59 100

57 14.4 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 7.632 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL034721.D

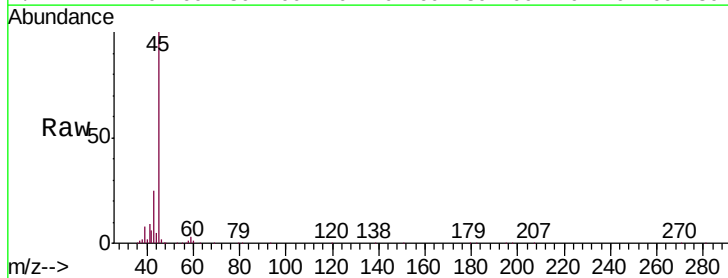
Acq: 27 Feb 2020 23:13

Tgt Ion: 45 Resp: 605989

Ion Ratio Lower Upper

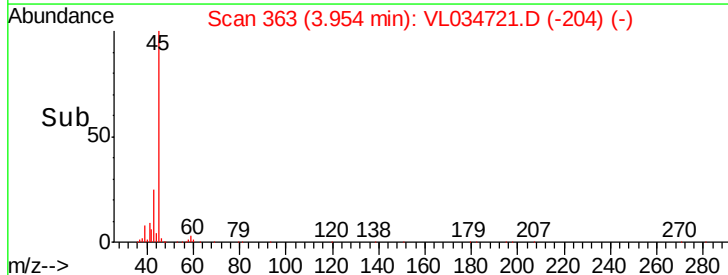
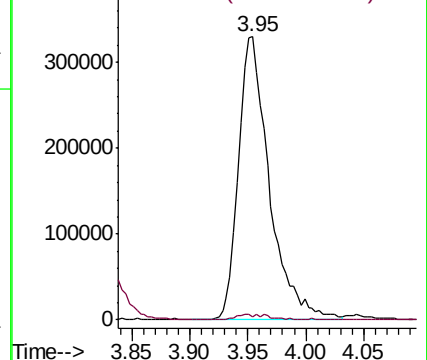
45 100

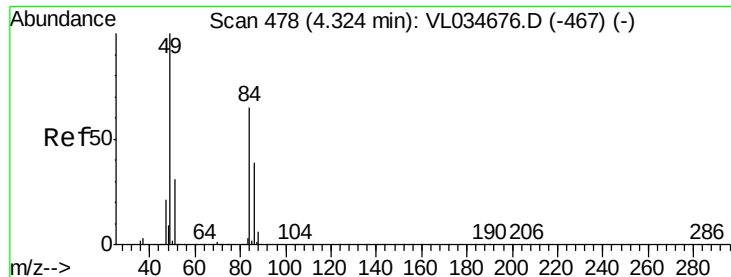
58 2.1 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

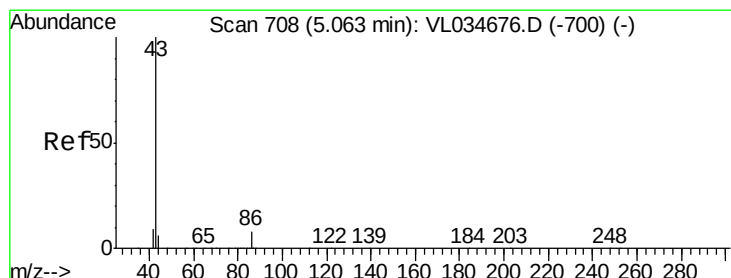
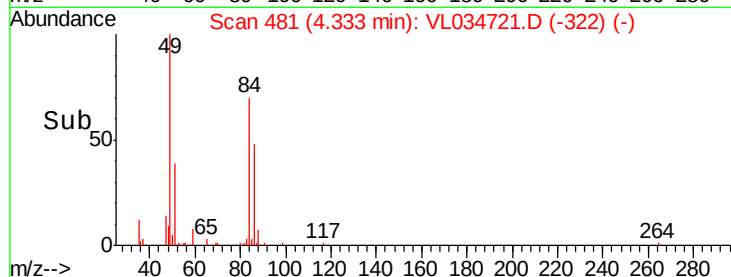
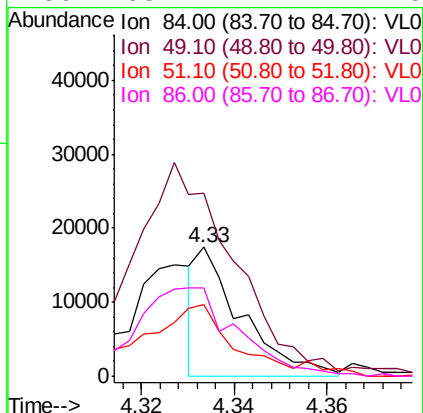
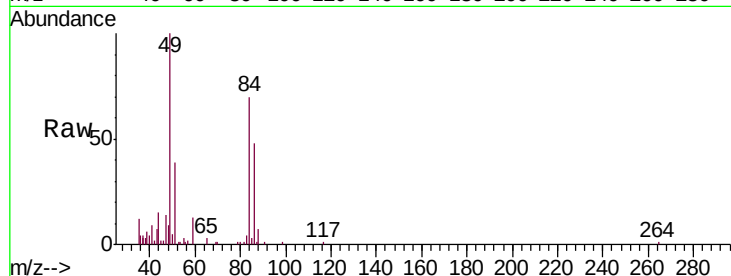




#20
Methylene Chloride
Concen: 0.234 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

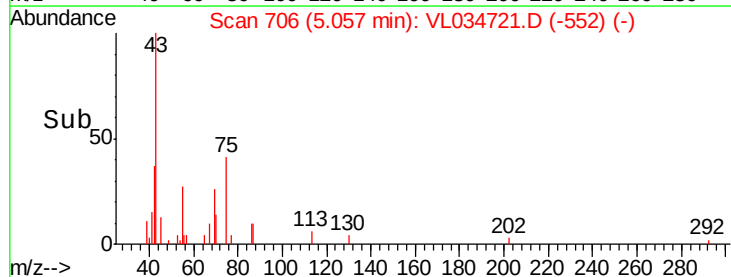
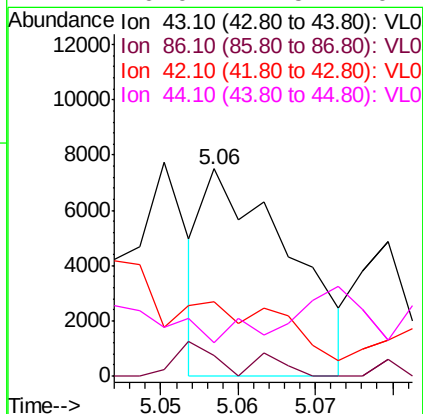
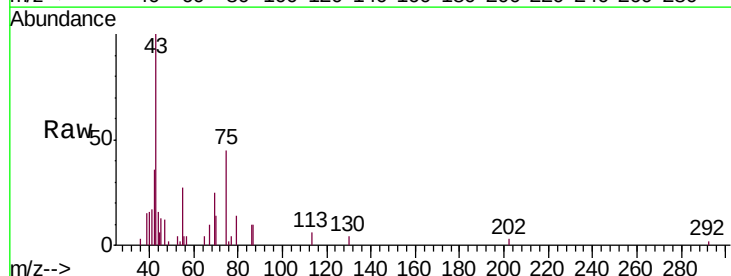
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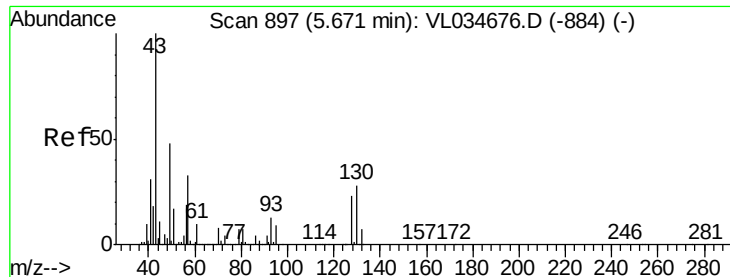
Tgt Ion:	84	Resp:	11597
Ion	Ratio	Lower	Upper
84	100		
49	149.2	122.8	184.2
51	51.9	38.6	58.0
86	68.7	47.7	71.5



#23
Vinyl Acetate
Concen: 0.032 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

Tgt Ion:	43	Resp:	5832
Ion	Ratio	Lower	Upper
43	100		
86	14.5	6.0	9.0#
42	42.9	8.0	12.0#
44	0.0	4.5	6.7#

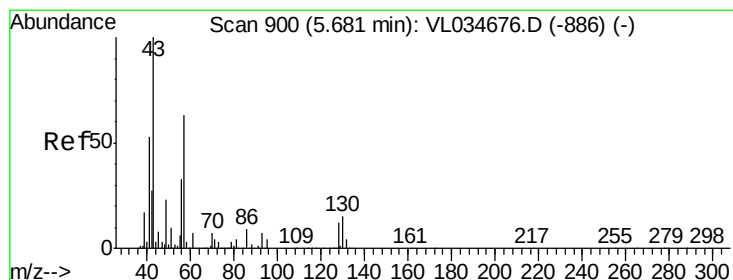
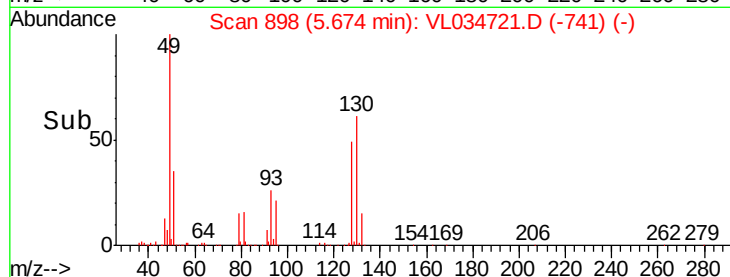
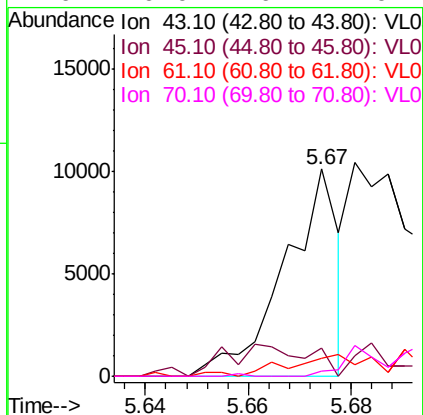
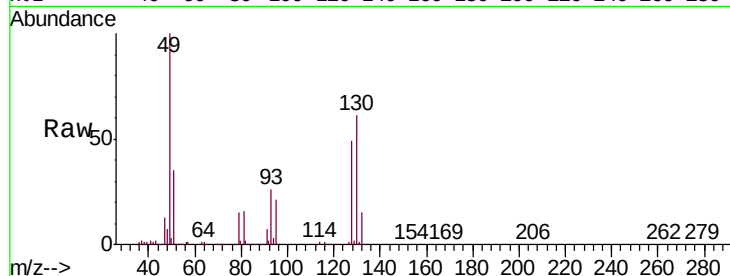




#25
Ethyl Acetate
Concen: 0.031 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

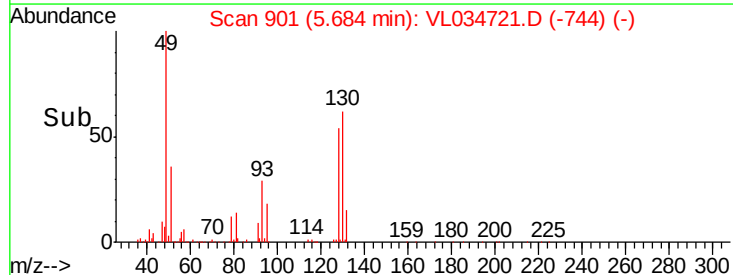
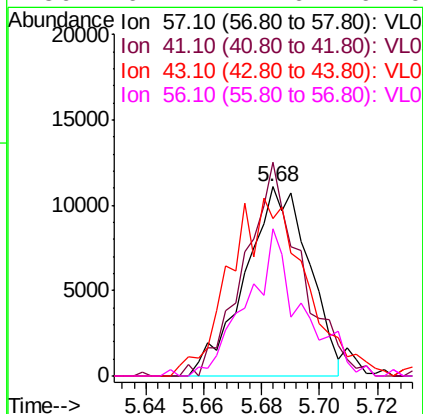
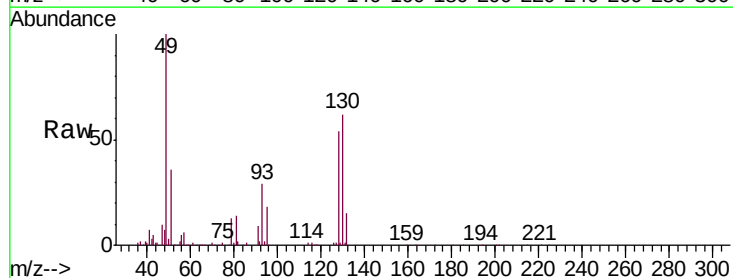
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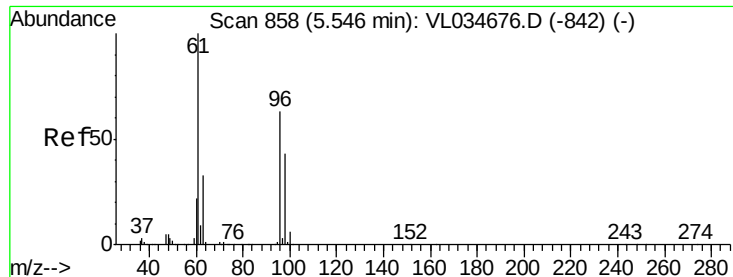
Tgt Ion:	43	Resp:	7339
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	7.8	11.6#
70	0.0	6.1	9.1#



#26
Hexane
Concen: 0.156 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

Tgt Ion:	57	Resp:	16943
Ion	Ratio	Lower	Upper
57	100		
41	101.0	70.3	105.5
43	113.8	177.0	265.4#
56	67.2	42.6	64.0#



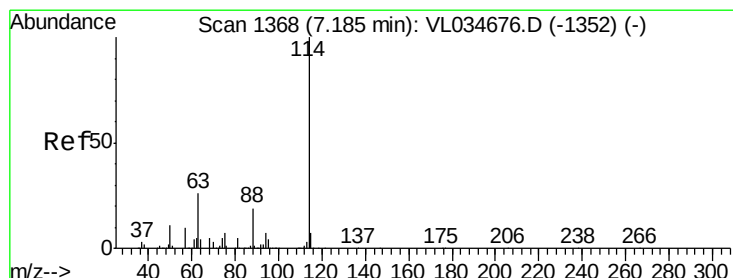
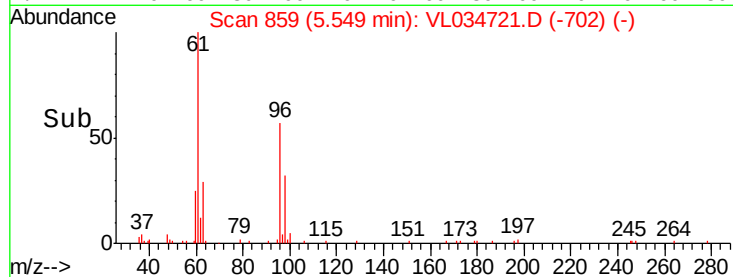
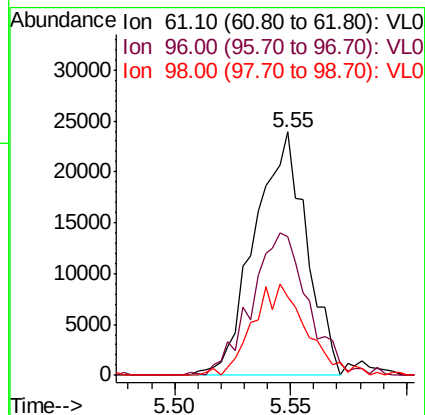
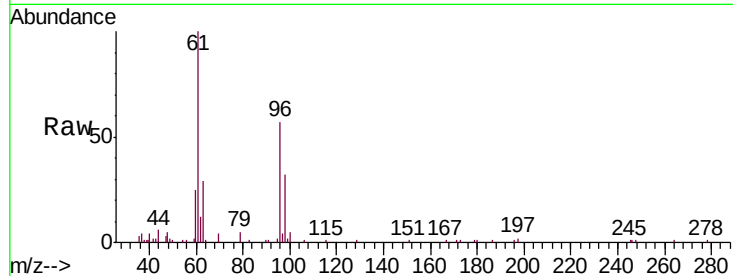


#31

cis-1,2-Dichloroethene
 Concen: 0.347 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. 0.00 min
 Lab File: VL034721.D
 Acq: 27 Feb 2020 23:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1-MAIN-ELECT-RMDL

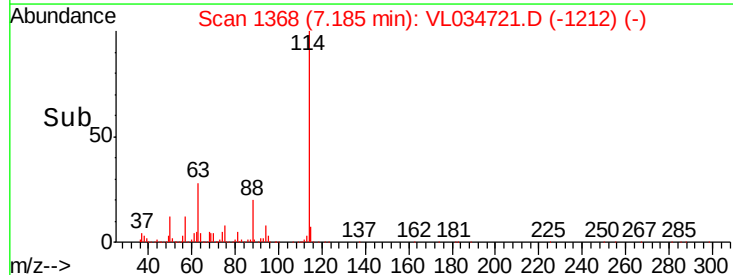
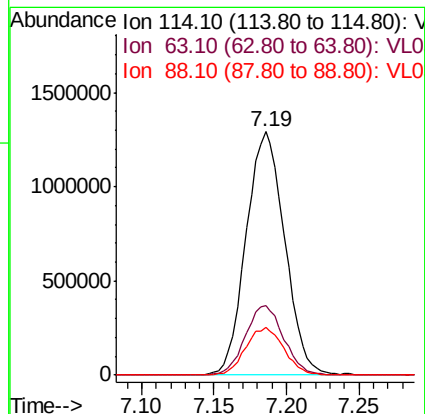
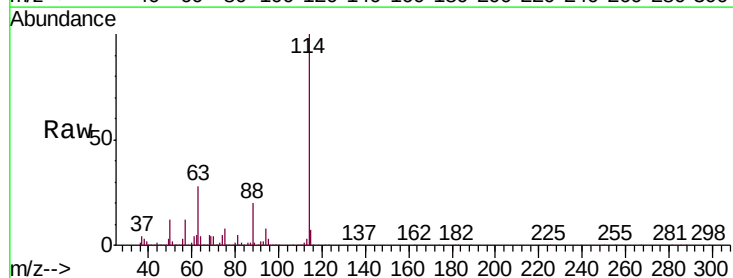
Tgt Ion	Ratio	Lower	Upper
61	100		
96	55.3	50.2	75.2
98	32.4	34.3	51.5#

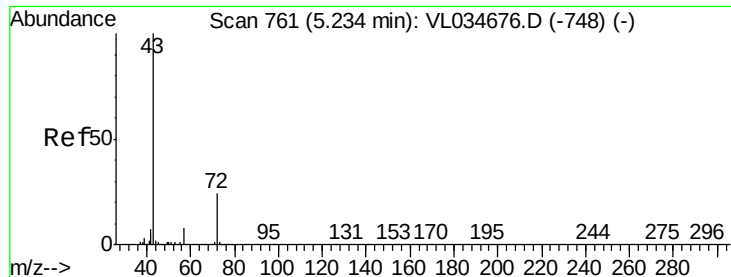


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL034721.D
 Acq: 27 Feb 2020 23:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.7	22.9	34.3
88	19.6	15.8	23.6

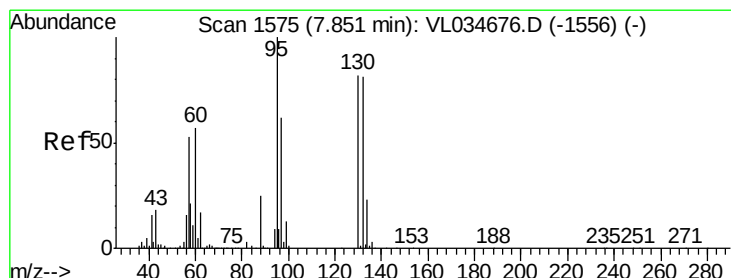
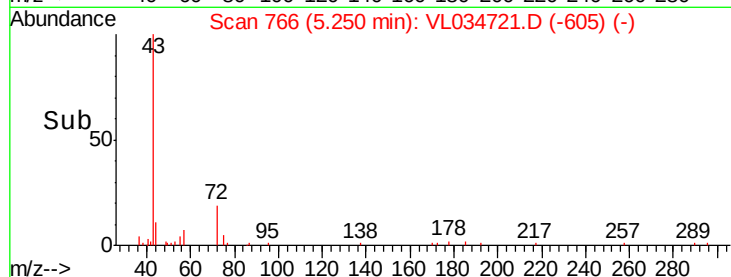
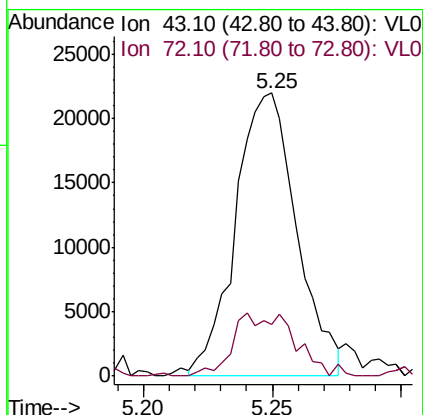
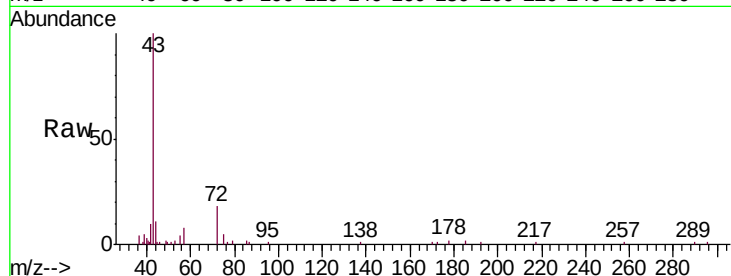




#34
 2-Butanone
 Concen: 0.242 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL034721.D
 Acq: 27 Feb 2020 23:13

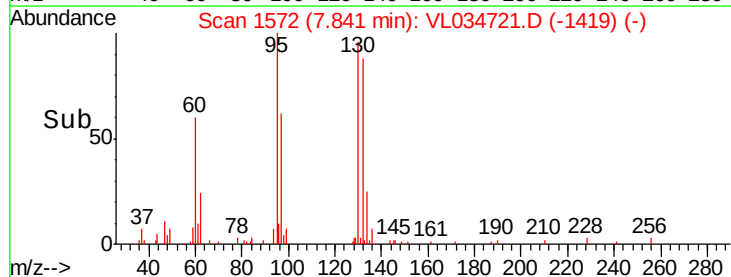
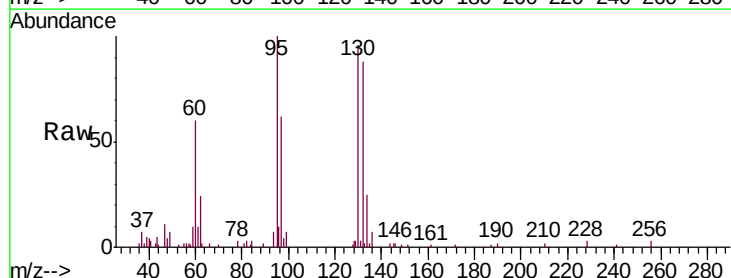
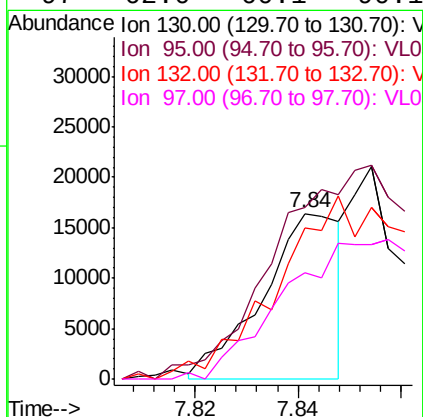
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1-MAIN-ELECT-RMDL

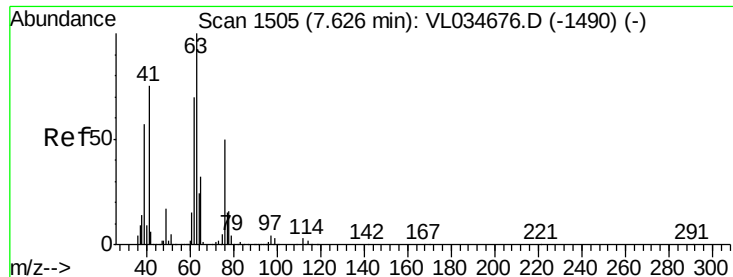
Tgt Ion: 43 Resp: 36427
 Ion Ratio Lower Upper
 43 100
 72 22.6 18.2 27.2



#38
 Trichloroethene
 Concen: 0.215 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL034721.D
 Acq: 27 Feb 2020 23:13

Tgt Ion: 130 Resp: 17120
 Ion Ratio Lower Upper
 130 100
 95 98.2 97.1 145.7
 132 83.1 78.3 117.5
 97 62.0 60.1 90.1





#39

1,2-Dichloropropane

Concen: 8.192 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.44 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

MSVOA_L

ClientSampleId :

SG-1-MAIN-ELECT-RMDL

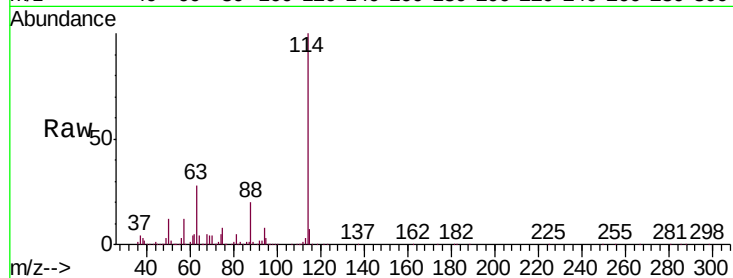
Tgt Ion: 63 Resp: 673347

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

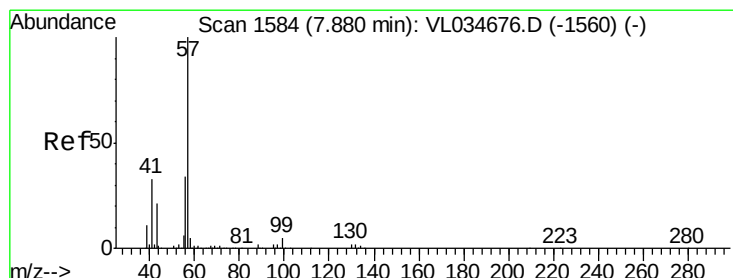
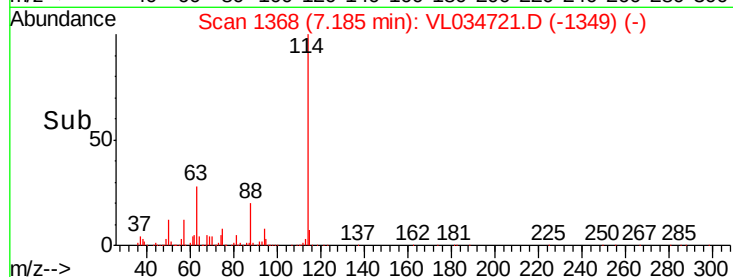
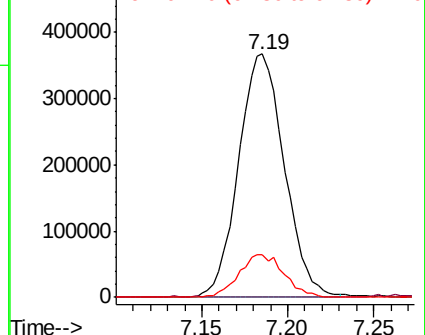
62 17.6 56.3 84.5#



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



#44

2,2,4-Trimethylpentane

Concen: 0.025 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

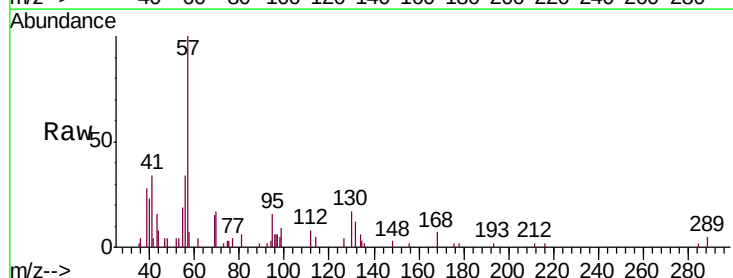
Tgt Ion: 57 Resp: 8922

Ion Ratio Lower Upper

57 100

41 128.9 26.0 39.0#

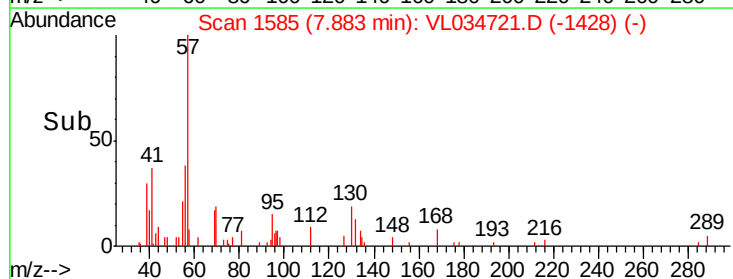
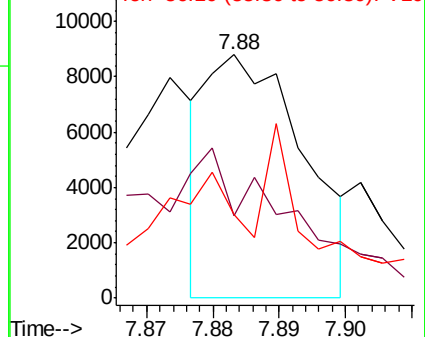
56 101.3 25.6 38.4#

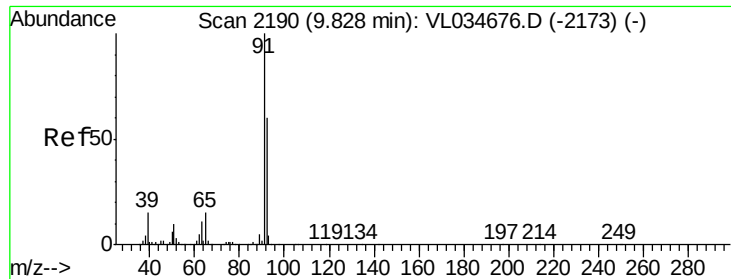


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.159 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

Instrument :

MSVOA_L

ClientSampleId :

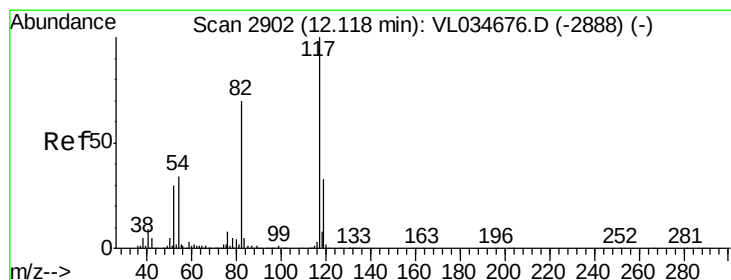
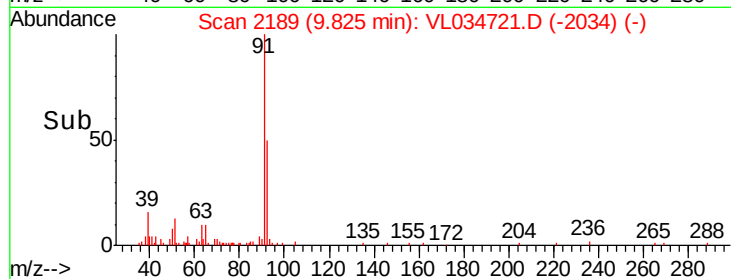
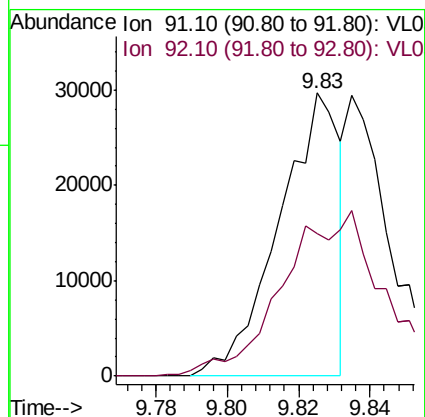
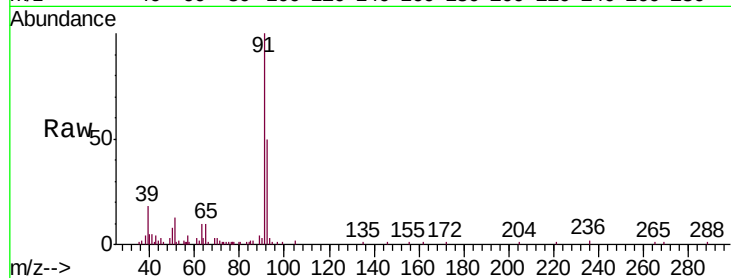
SG-1-MAIN-ELECT-RMDL

Tgt Ion: 91 Resp: 35008

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL034721.D

Acq: 27 Feb 2020 23:13

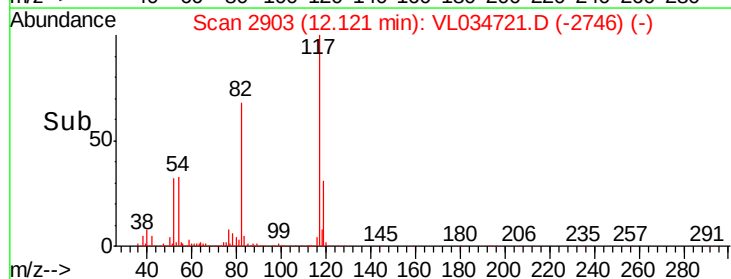
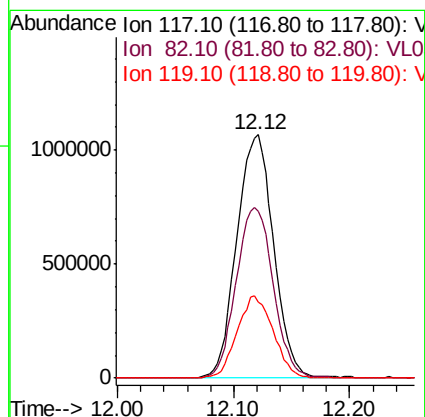
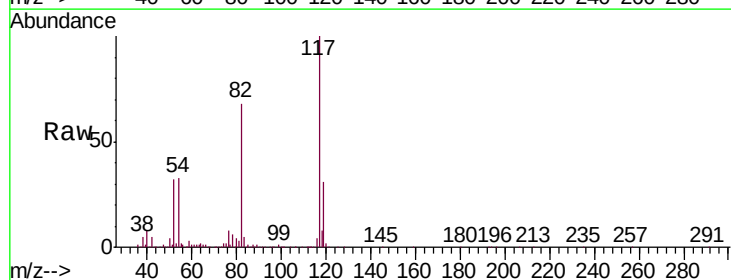
Tgt Ion: 117 Resp: 2360418

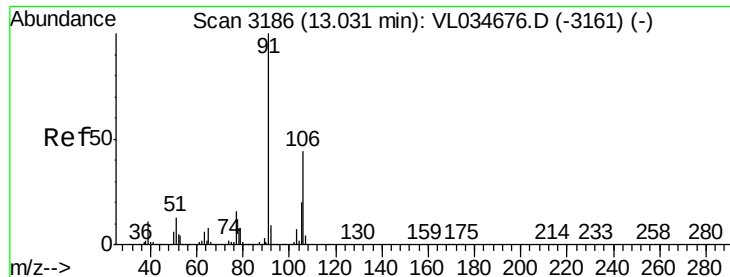
Ion Ratio Lower Upper

117 100

82 71.1 54.1 81.1

119 33.3 27.6 41.4

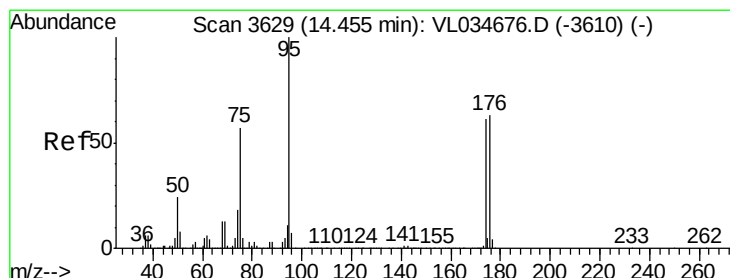
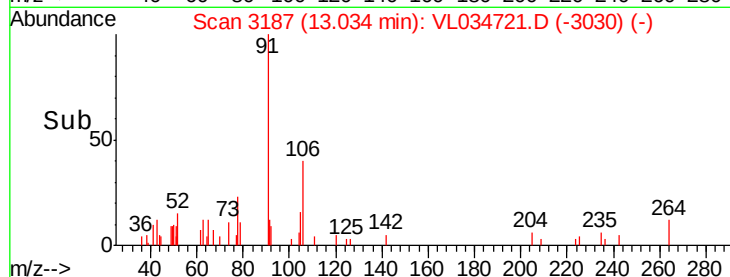
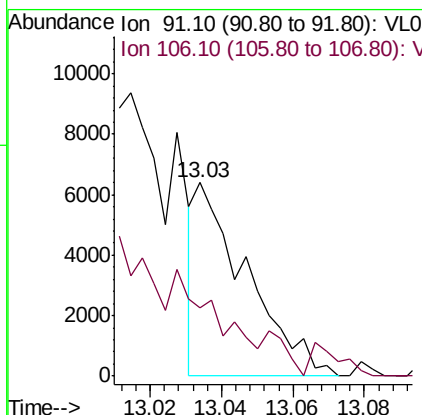
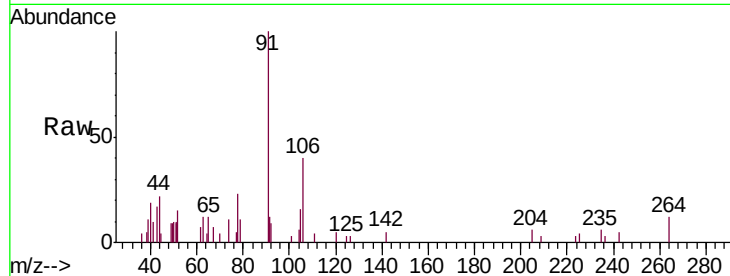




#59
m/p-Xylene
Concen: 0.025 ppbv
RT: 13.03 min Scan# 3187
Delta R.T. 0.00 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

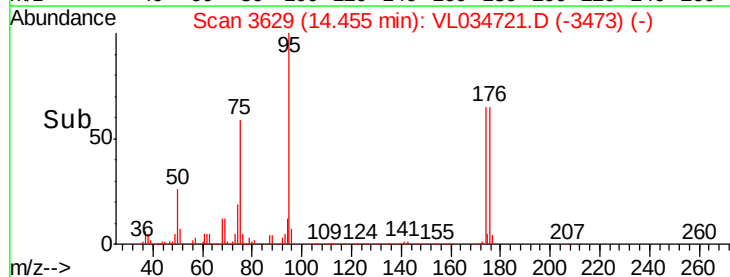
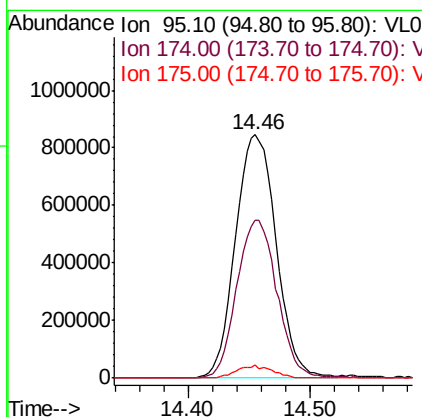
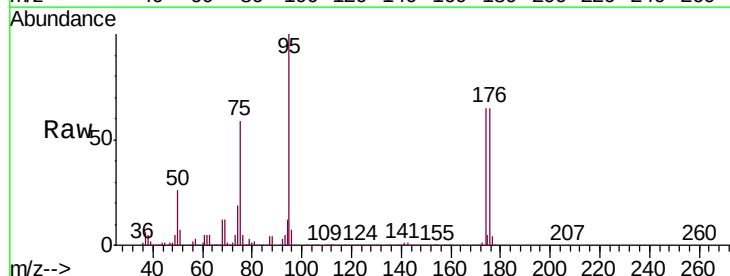
Instrument :
MSVOA_L
ClientSampleId :
SG-1-MAIN-ELECT-RMDL

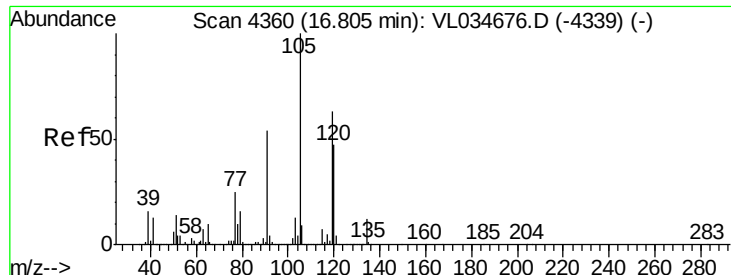
Tgt Ion: 91 Resp: 6350
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.083 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.00 min
Lab File: VL034721.D
Acq: 27 Feb 2020 23:13

Tgt Ion: 95 Resp: 1951532
Ion Ratio Lower Upper
95 100
174 64.7 50.7 76.1
175 4.6 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.023 ppbv
 RT: 16.81 min Scan# 4362
 Delta R.T. 0.01 min
 Lab File: VL034721.D
 Acq: 27 Feb 2020 23:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1-MAIN-ELECT-RMDL

Tgt Ion:	105	Resp:	6627
Ion	Ratio	Lower	Upper
105	100		
120	34.0	37.9	56.9#
91	19.4	43.9	65.9#
77	18.9	20.3	30.5#

