

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034109.D
 Acq On : 12 Aug 2019 18:30
 Operator : SY/AP
 Sample : K4296-03 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

Quant Time: Aug 13 04:05:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1197288	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2231374	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2302020	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1973578	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

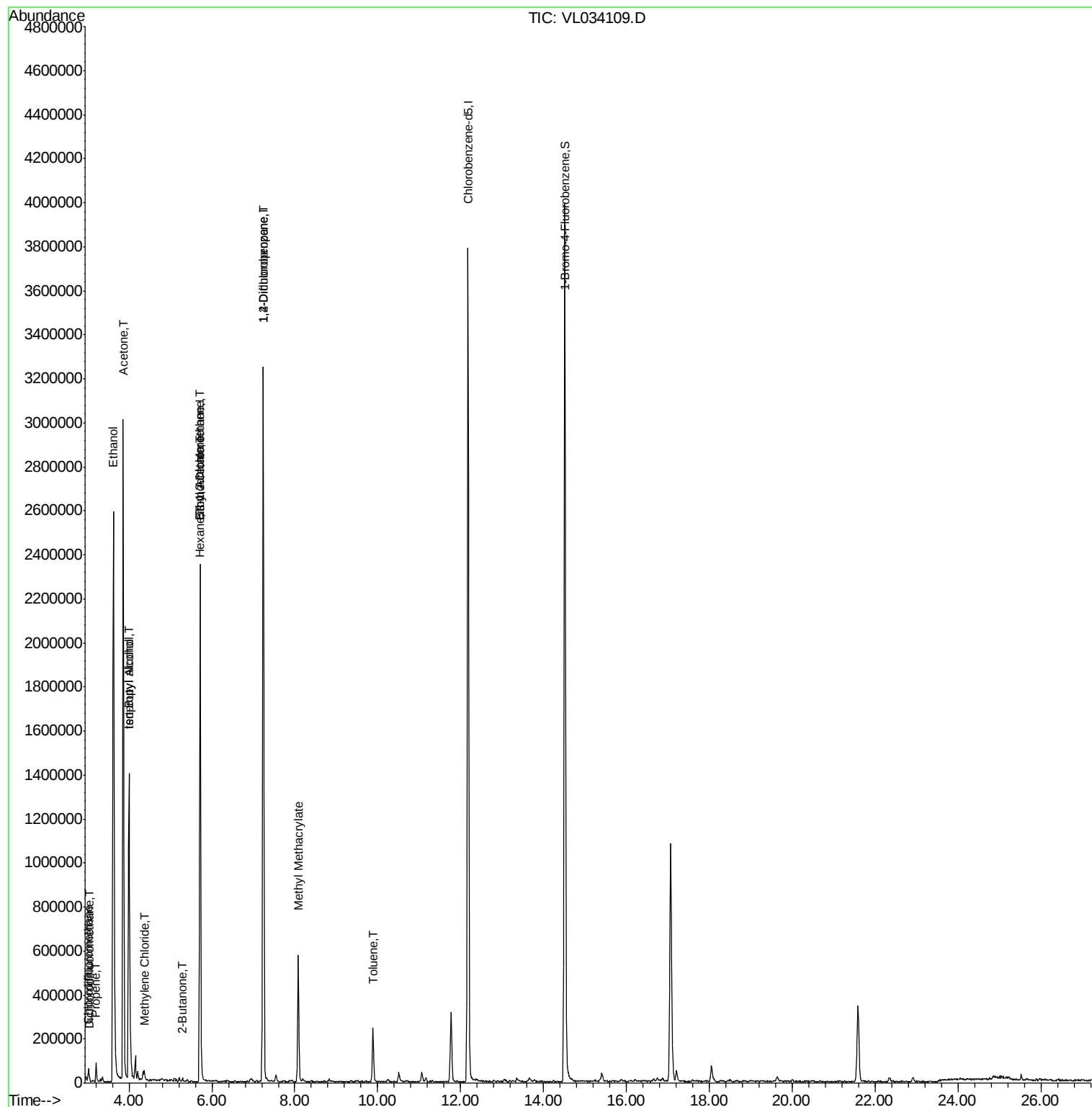
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	4534	0.031	ppbv	99
3) Chlorodifluoromethane	3.02	51	14605	0.105	ppbv #	85
9) Propene	3.21	41	19384	0.237	ppbv	87
13) Ethanol	3.62	45	3427519	149.004	ppbv	99
15) Acetone	3.86	43	3098838	18.112	ppbv	95
17) tert-Butyl alcohol	3.99	59	62715	0.393	ppbv	98
19) Isopropyl Alcohol	4.00	45	1821497	13.673	ppbv #	69
20) Methylene Chloride	4.37	84	12548	0.245	ppbv #	82
25) Ethyl Acetate	5.72	43	111369	0.331	ppbv #	92
26) Hexane	5.73	57	14429	0.101	ppbv #	1
31) cis-1,2-Dichloroethene	5.72	61	11050	0.078	ppbv #	39
34) 2-Butanone	5.29	43	11489	0.055	ppbv #	85
39) 1,2-Dichloropropane	7.24	63	674062	6.587	ppbv #	23
43) Methyl Methacrylate	8.08	69	200679	1.929	ppbv	96
53) Toluene	9.89	91	190378	0.650	ppbv	93

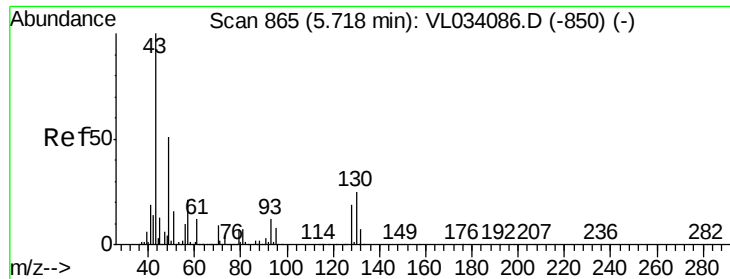
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 05 17:09:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

Instrument :

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ClientSampleId :

SRS-0807-VI3

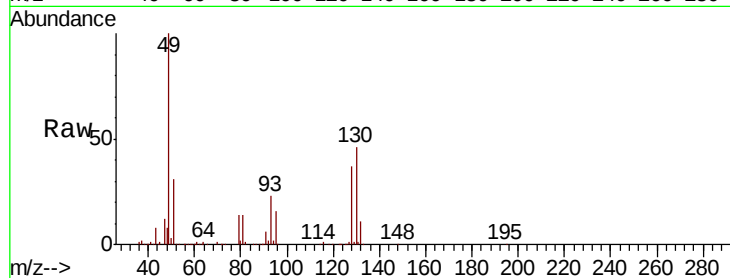
Tgt Ion: 49 Resp: 1197288

Ion Ratio Lower Upper

49 100

128 38.2 19.5 58.5

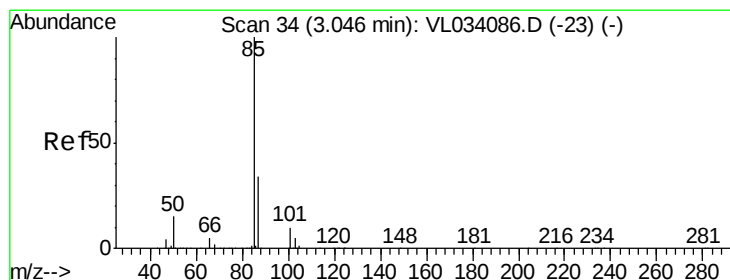
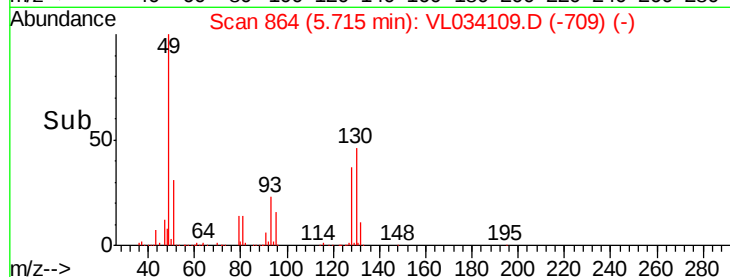
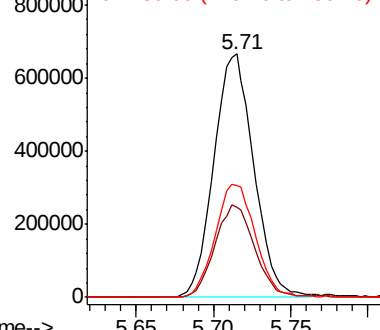
130 47.1 25.4 76.0



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: 0.031 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL034109.D

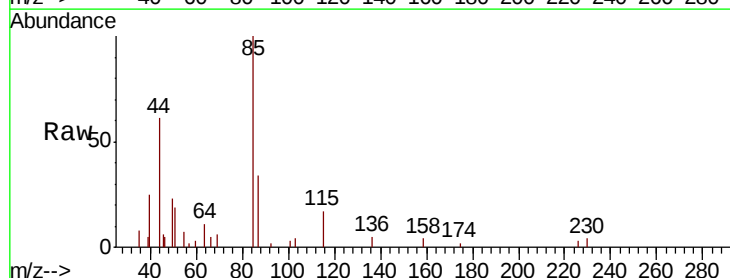
Acq: 12 Aug 2019 18:30

Tgt Ion: 85 Resp: 4534

Ion Ratio Lower Upper

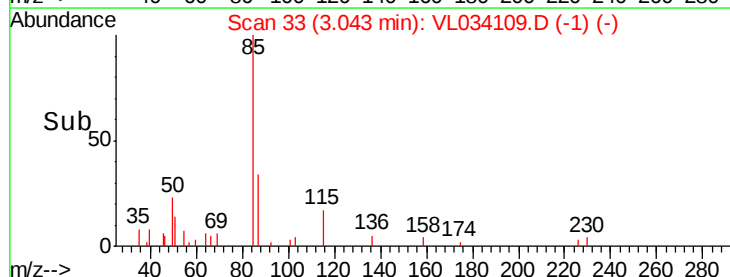
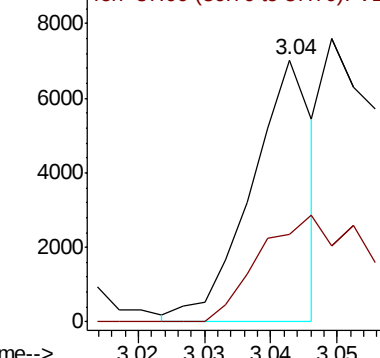
85 100

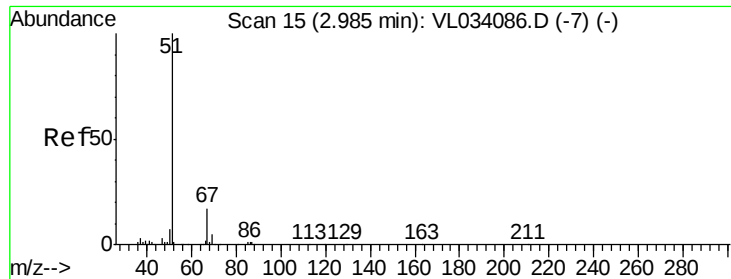
87 34.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

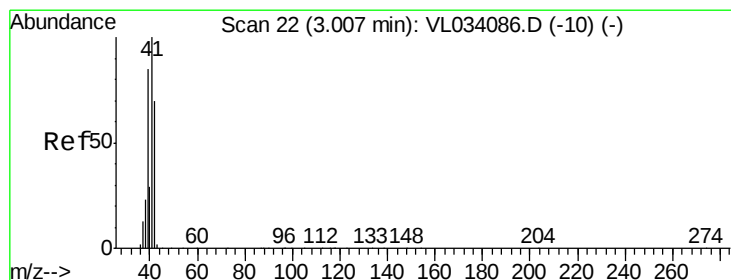
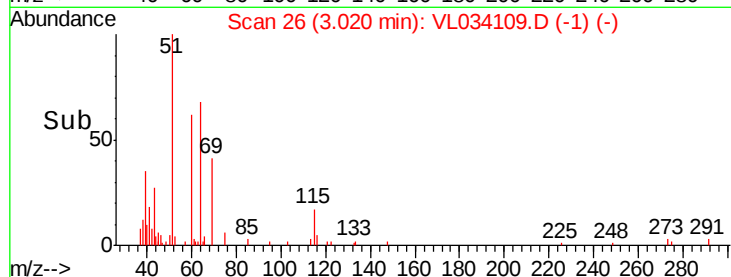
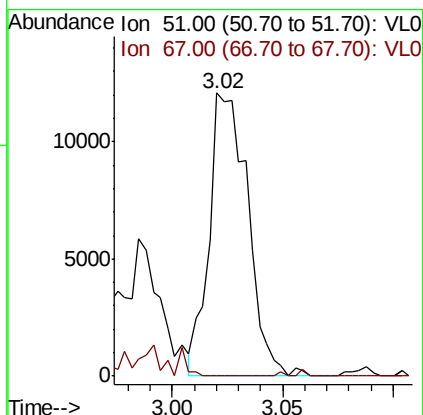
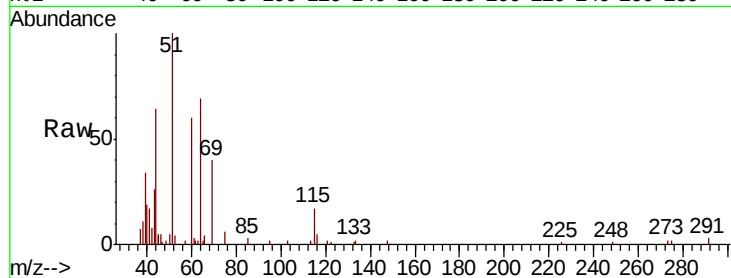




#3
 Chlorodifluoromethane
 Concen: 0.105 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. 0.04 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

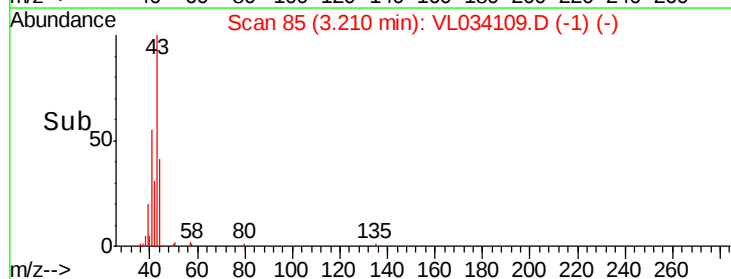
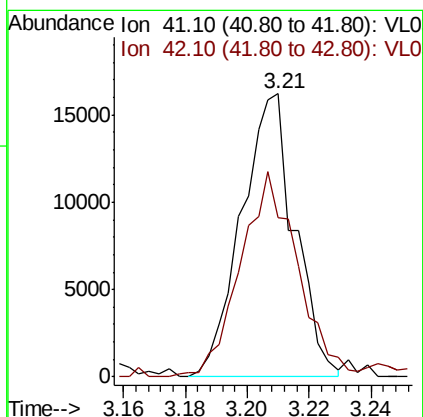
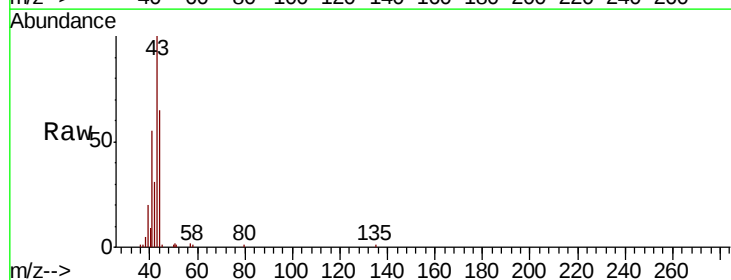
Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

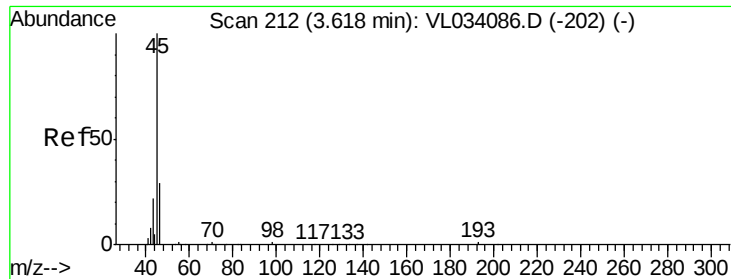
Tgt Ion: 51 Resp: 14605
 Ion Ratio Lower Upper
 51 100
 67 10.0 13.3 19.9#



#9
 Propene
 Concen: 0.237 ppbv
 RT: 3.21 min Scan# 85
 Delta R.T. 0.20 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Tgt Ion: 41 Resp: 19384
 Ion Ratio Lower Upper
 41 100
 42 80.5 55.8 83.6

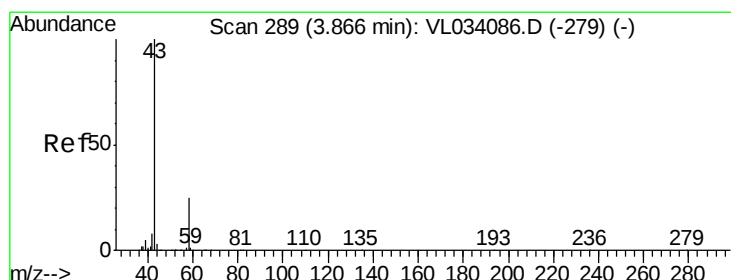
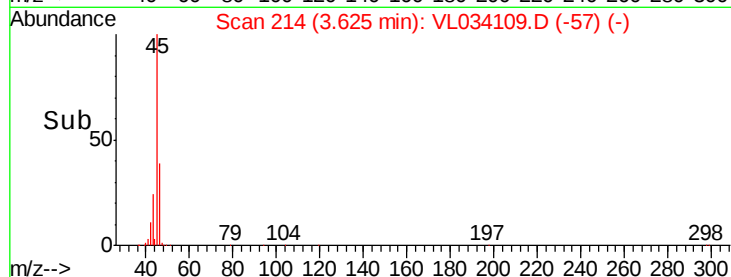
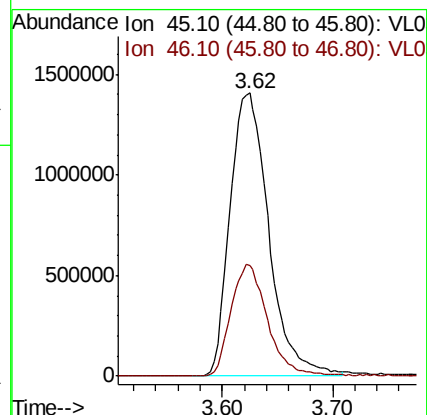
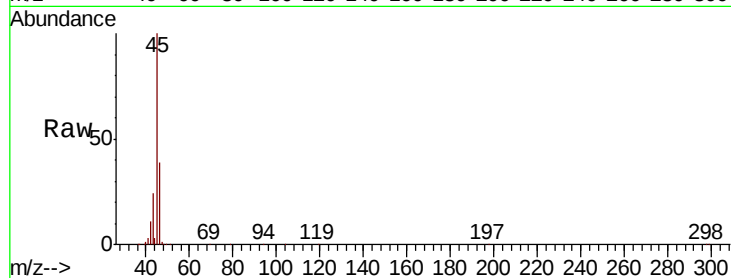




#13
Ethanol
Concen: 149.004 ppbv
RT: 3.62 min Scan# 214
Delta R.T. 0.01 min
Lab File: VL034109.D
Acq: 12 Aug 2019 18:30

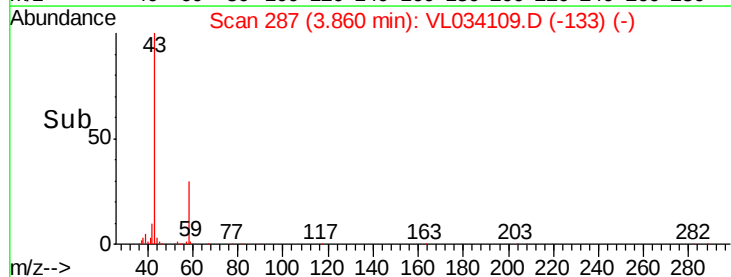
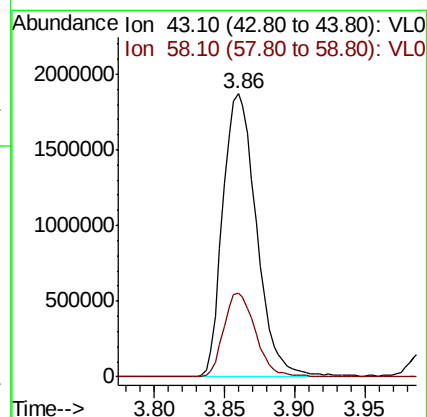
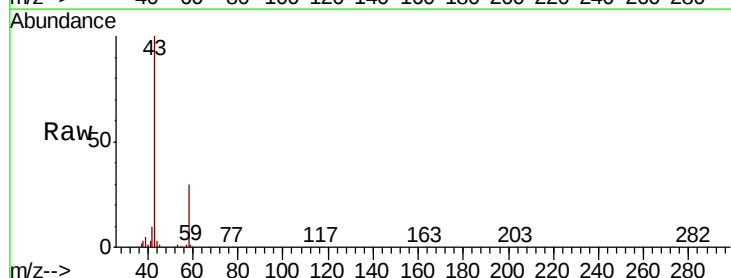
Instrument :
MSVOA_L
ClientSampleId :
SRS-0807-VI3

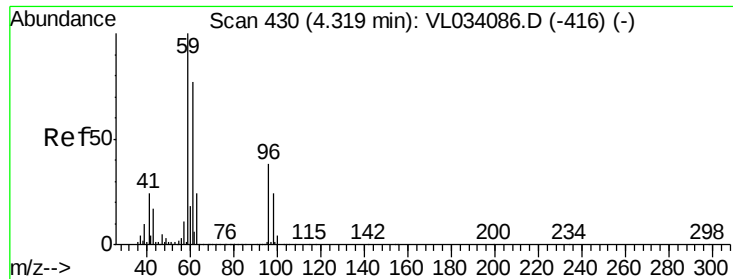
Tgt Ion: 45 Resp: 3427519
Ion Ratio Lower Upper
45 100
46 37.9 14.9 59.5



#15
Acetone
Concen: 18.112 ppbv
RT: 3.86 min Scan# 287
Delta R.T. -0.01 min
Lab File: VL034109.D
Acq: 12 Aug 2019 18:30

Tgt Ion: 43 Resp: 3098838
Ion Ratio Lower Upper
43 100
58 28.1 20.6 30.8



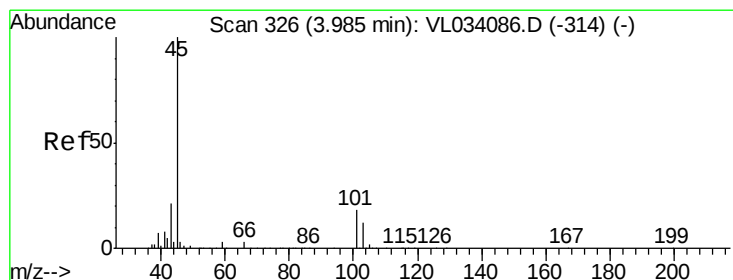
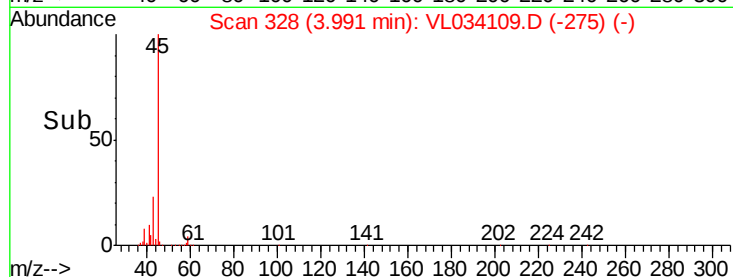
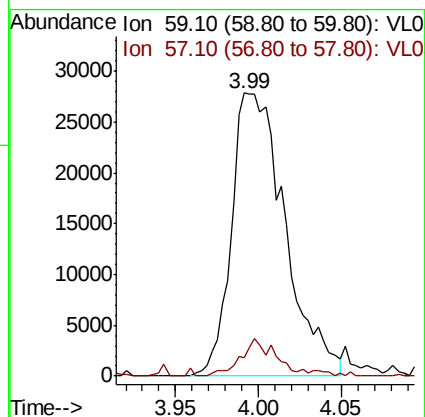
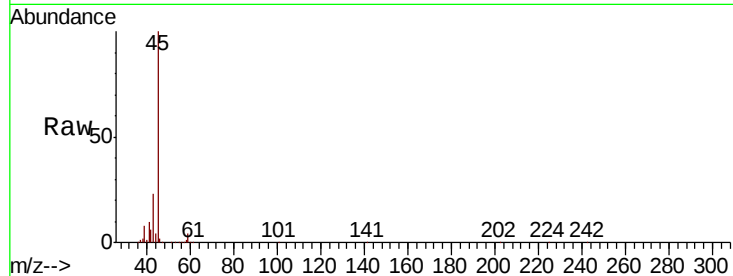


#17

tert-Butyl alcohol
 Concen: 0.393 ppbv
 RT: 3.99 min Scan# 328
 Delta R.T. -0.33 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Instrument :
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 ClientSampleId :
 SRS-0807-VI3

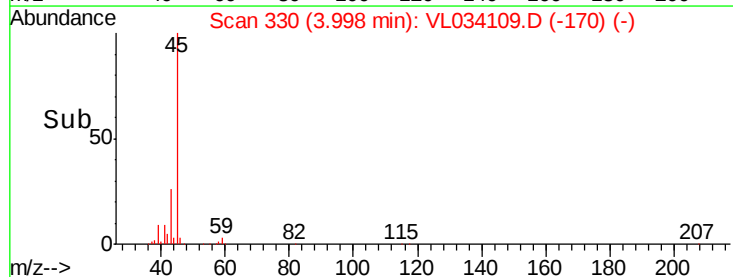
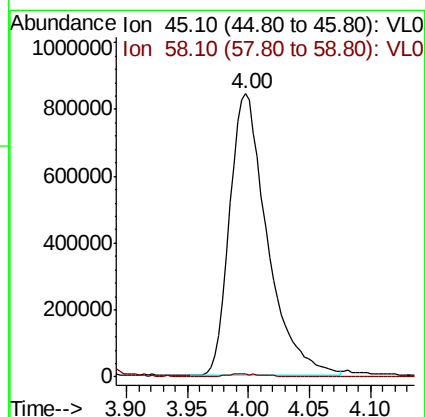
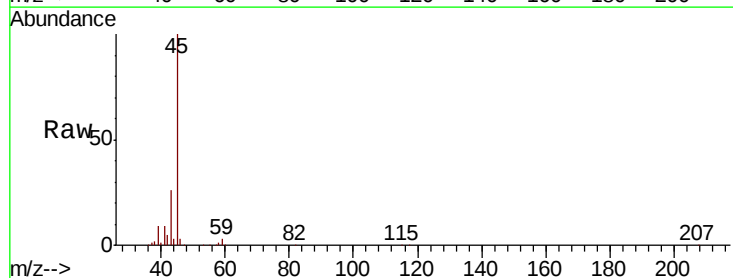
Tgt Ion: 59 Resp: 62715
 Ion Ratio Lower Upper
 59 100
 57 9.6 8.4 12.6

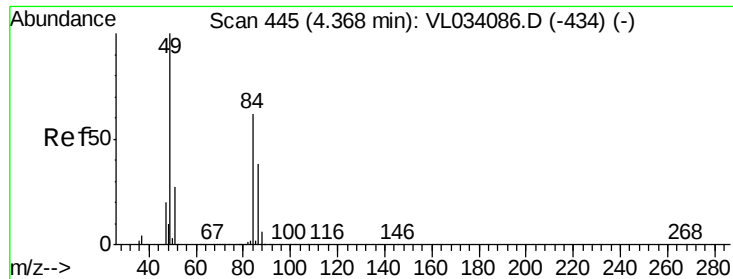


#19

Isopropyl Alcohol
 Concen: 13.673 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. 0.01 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Tgt Ion: 45 Resp: 1821497
 Ion Ratio Lower Upper
 45 100
 58 47.9 24.6 37.0#

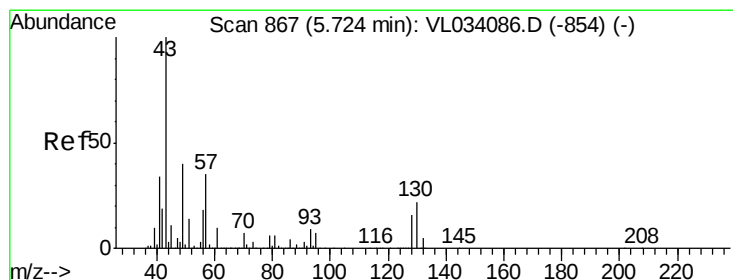
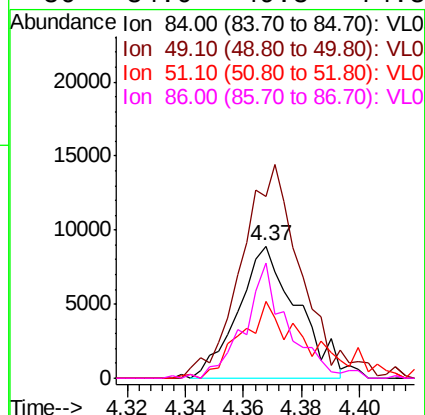
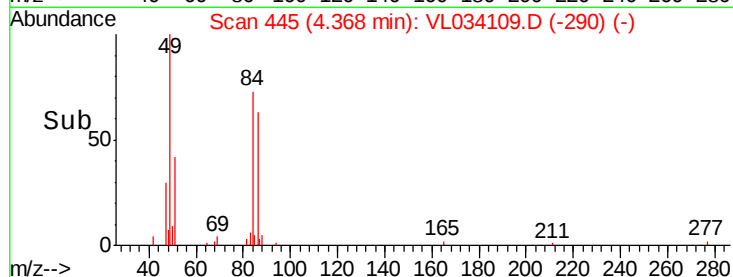
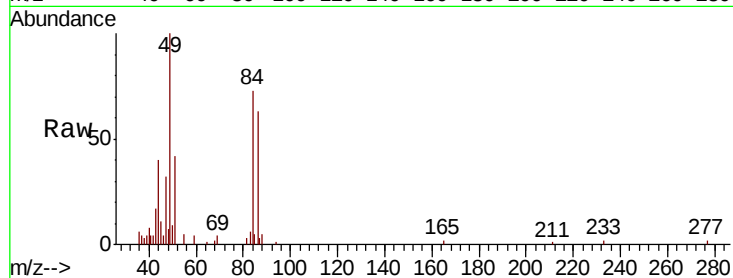




#20
Methylene Chloride
Concen: 0.245 ppbv
RT: 4.37 min Scan# 445
Delta R.T. -0.00 min
Lab File: VL034109.D
Acq: 12 Aug 2019 18:30

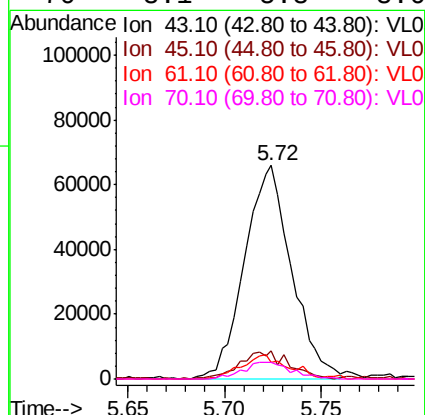
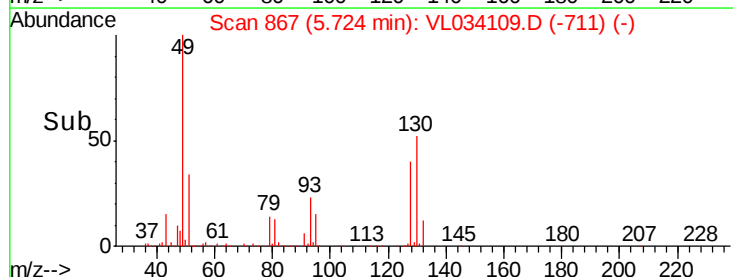
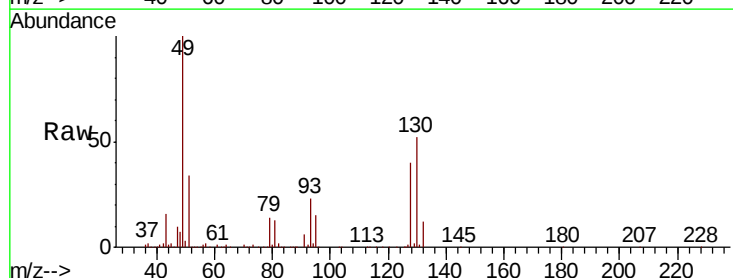
Instrument :
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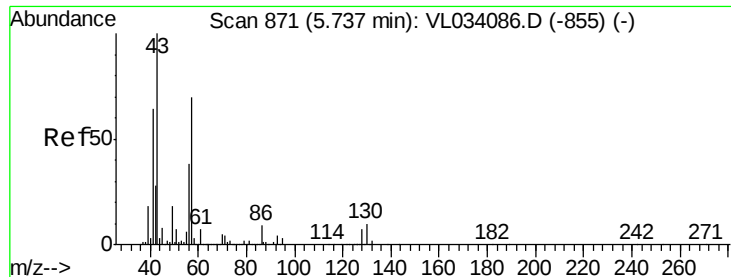
Tgt Ion: 84 Resp: 12548
Ion Ratio Lower Upper
84 100
49 142.3 129.7 194.5
51 55.7 35.8 53.8#
86 84.0 49.8 74.8#



#25
Ethyl Acetate
Concen: 0.331 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034109.D
Acq: 12 Aug 2019 18:30

Tgt Ion: 43 Resp: 111369
Ion Ratio Lower Upper
43 100
45 15.0 8.4 12.6#
61 11.5 7.3 10.9#
70 8.1 5.8 8.6





#26

Hexane

Concen: 0.101 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

Tgt Ion: 57 Resp: 14429

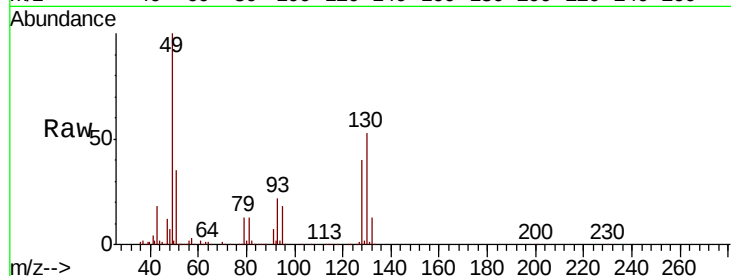
Ion Ratio Lower Upper

57 100

41 115.8 75.7 113.5#

43 794.0 189.8 284.8#

56 57.6 42.7 64.1

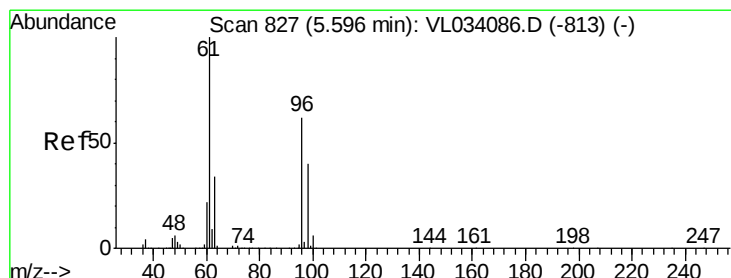
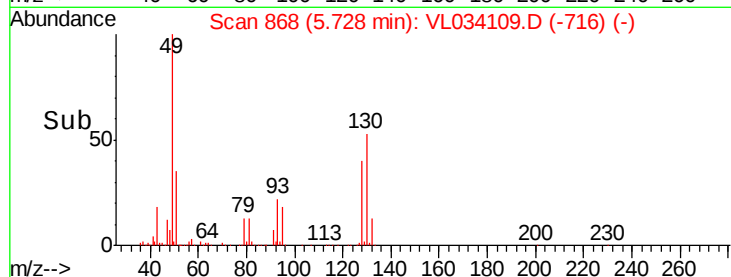
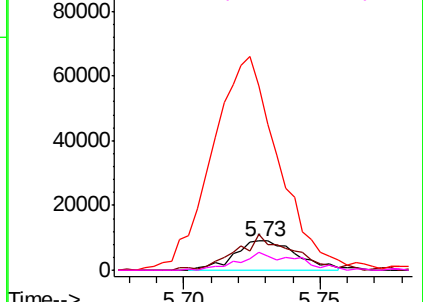


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.078 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.13 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

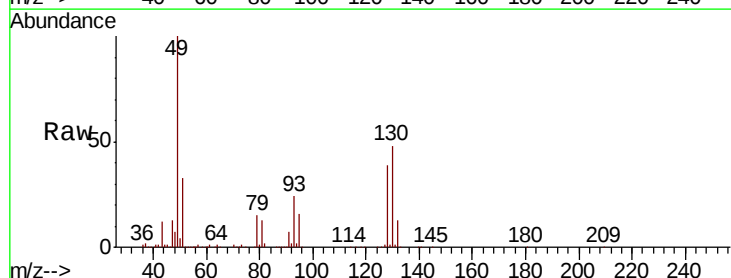
Tgt Ion: 61 Resp: 11050

Ion Ratio Lower Upper

61 100

96 16.6 49.3 73.9#

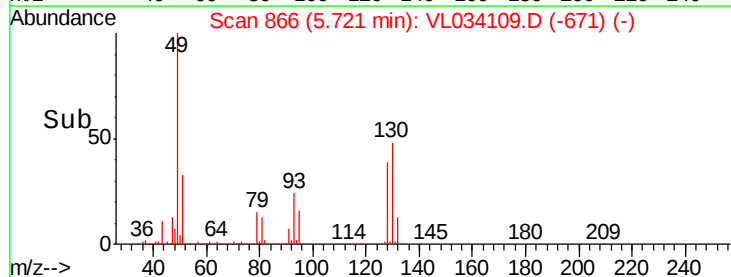
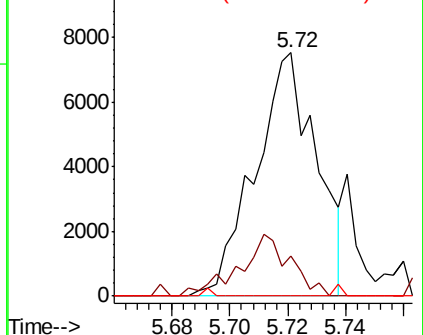
98 0.0 32.4 48.6#

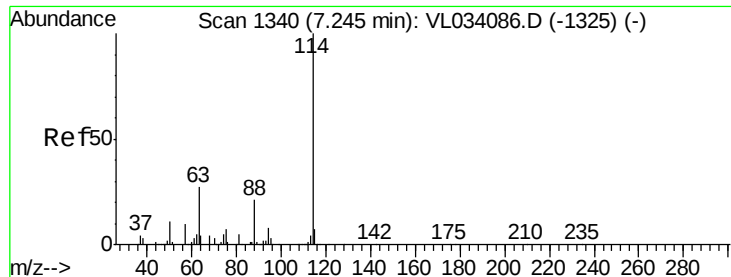


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0

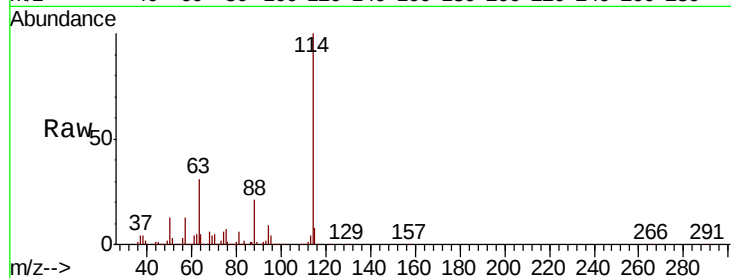




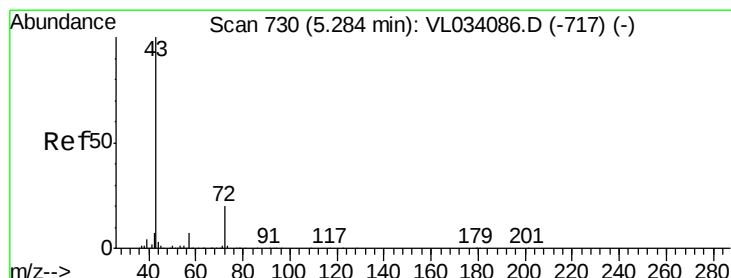
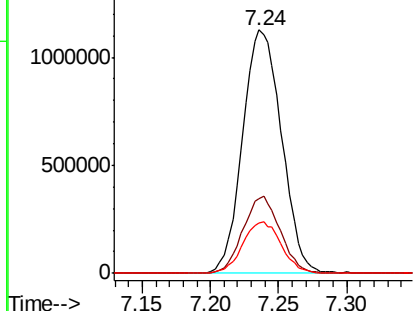
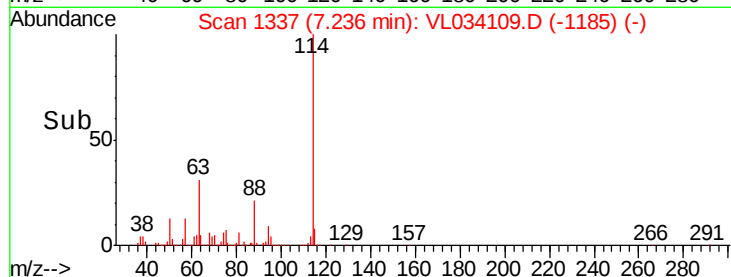
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

Tgt Ion:114 Resp: 2231374
 Ion Ratio Lower Upper
 114 100
 63 30.4 22.5 33.7
 88 20.8 15.7 23.5

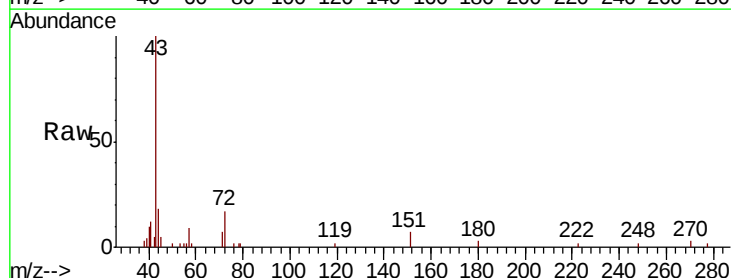


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

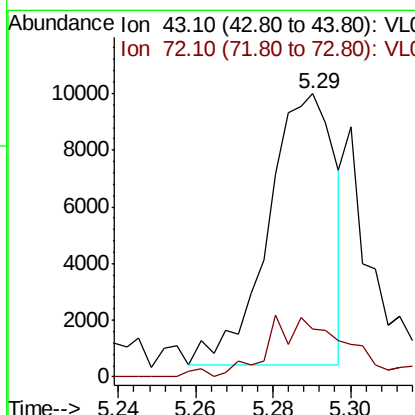
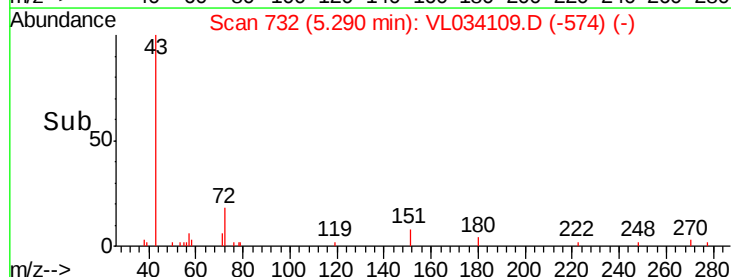


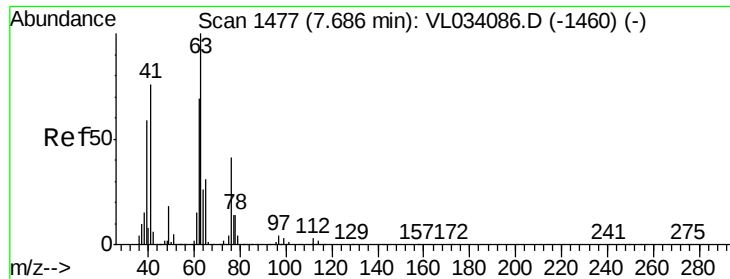
#34
 2-Butanone
 Concen: 0.055 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. 0.01 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Tgt Ion: 43 Resp: 11489
 Ion Ratio Lower Upper
 43 100
 72 27.0 16.0 24.0#



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





#39

1,2-Dichloropropane

Concen: 6.587 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.45 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI3

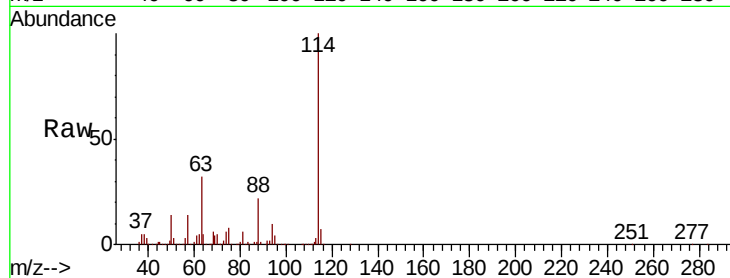
Tgt Ion: 63 Resp: 674062

Ion Ratio Lower Upper

63 100

41 0.0 60.6 91.0#

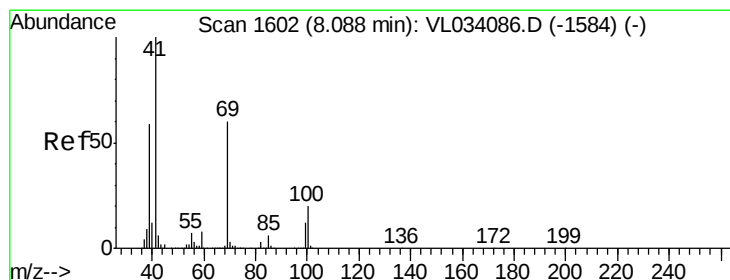
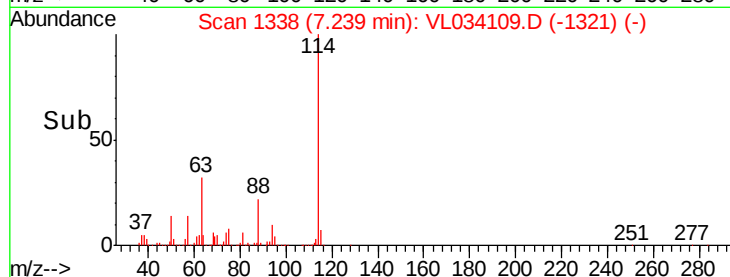
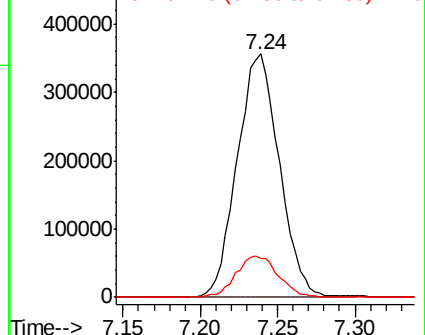
62 15.6 55.0 82.6#



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



#43

Methyl Methacrylate

Concen: 1.929 ppbv

RT: 8.08 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

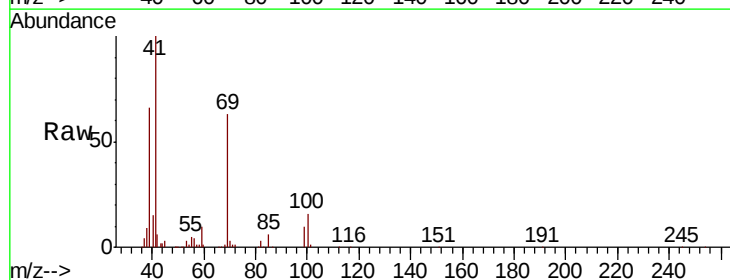
Tgt Ion: 69 Resp: 200679

Ion Ratio Lower Upper

69 100

41 170.7 132.9 199.3

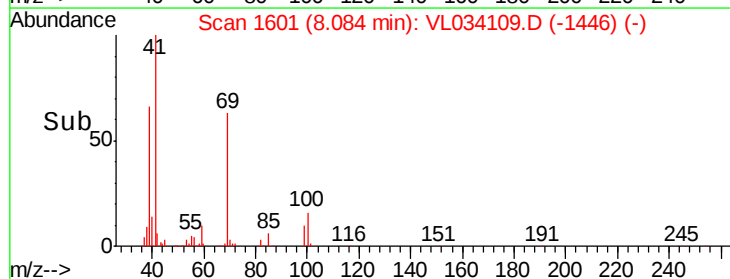
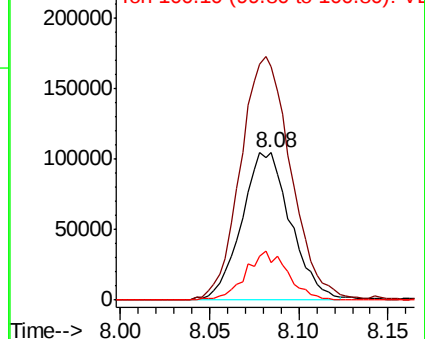
100 28.8 25.8 38.8

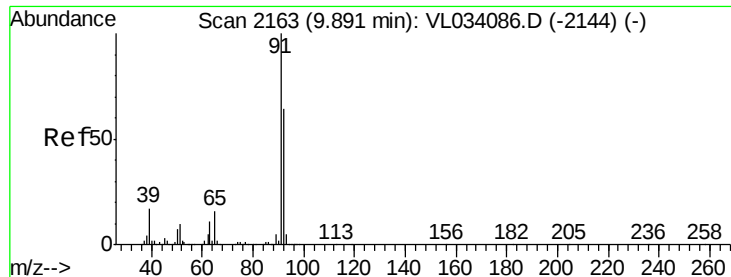


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#53

Toluene

Concen: 0.650 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

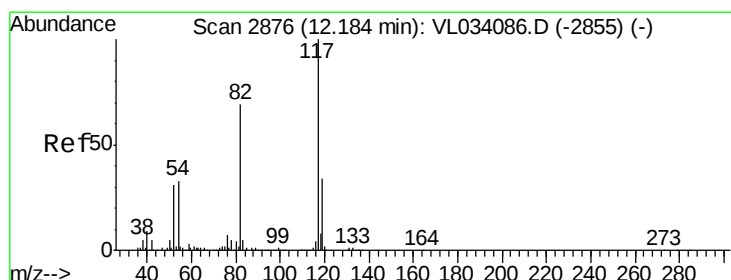
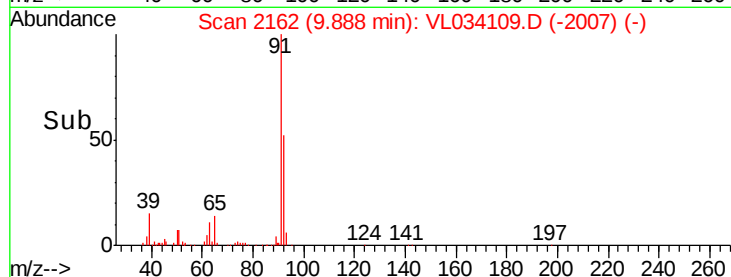
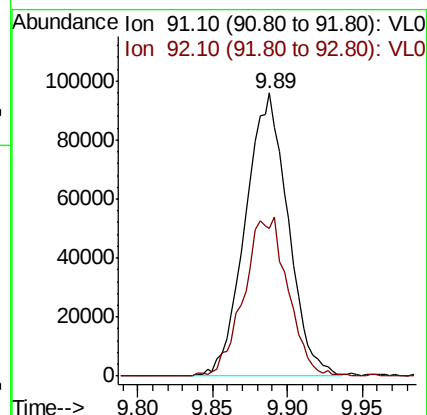
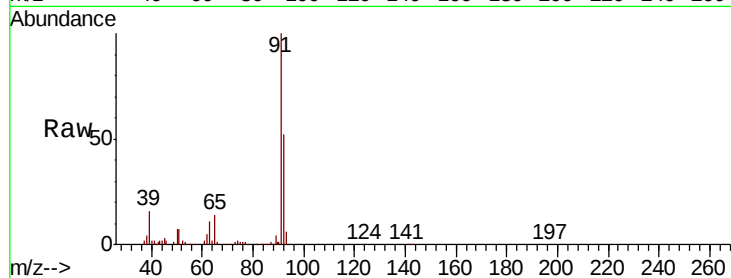
SRS-0807-VI3

Tgt Ion: 91 Resp: 190378

Ion Ratio Lower Upper

91 100

92 57.7 50.3 75.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.01 min

Lab File: VL034109.D

Acq: 12 Aug 2019 18:30

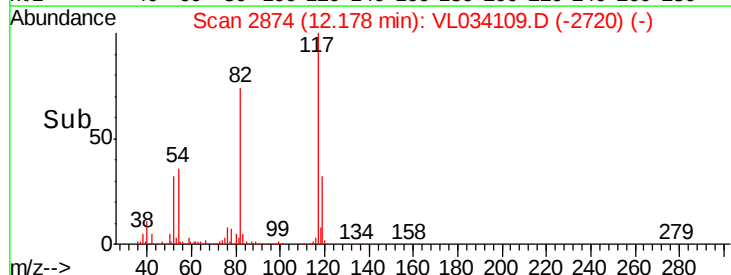
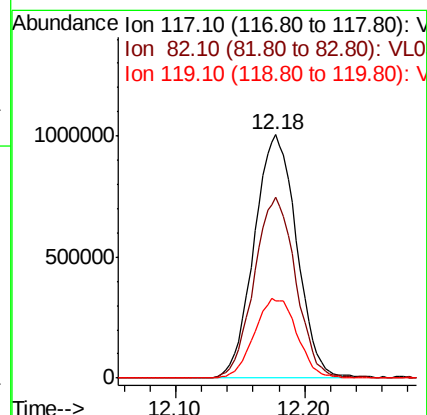
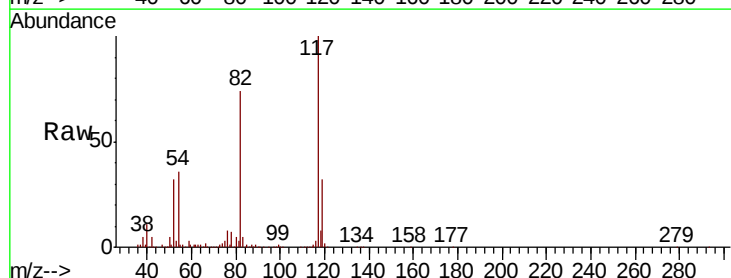
Tgt Ion: 117 Resp: 2302020

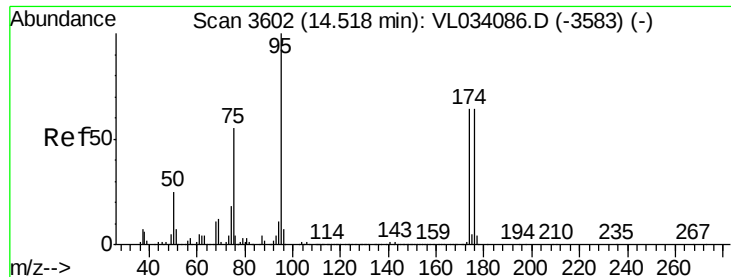
Ion Ratio Lower Upper

117 100

82 73.6 52.2 78.4

119 33.1 44.8 67.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.566 ppbv
 RT: 14.52 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VL034109.D
 Acq: 12 Aug 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI3

Tgt Ion: 95 Resp: 1973578
 Ion Ratio Lower Upper
 95 100
 174 62.4 53.0 79.6
 175 4.5 4.2 6.2

