

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101719\
 Data File : VL034329.D
 Acq On : 17 Oct 2019 23:20
 Operator : SY/AP
 Sample : K5409-02DL2 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL2

Quant Time: Oct 18 04:36:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	873460	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1841670	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1882742	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1576202	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

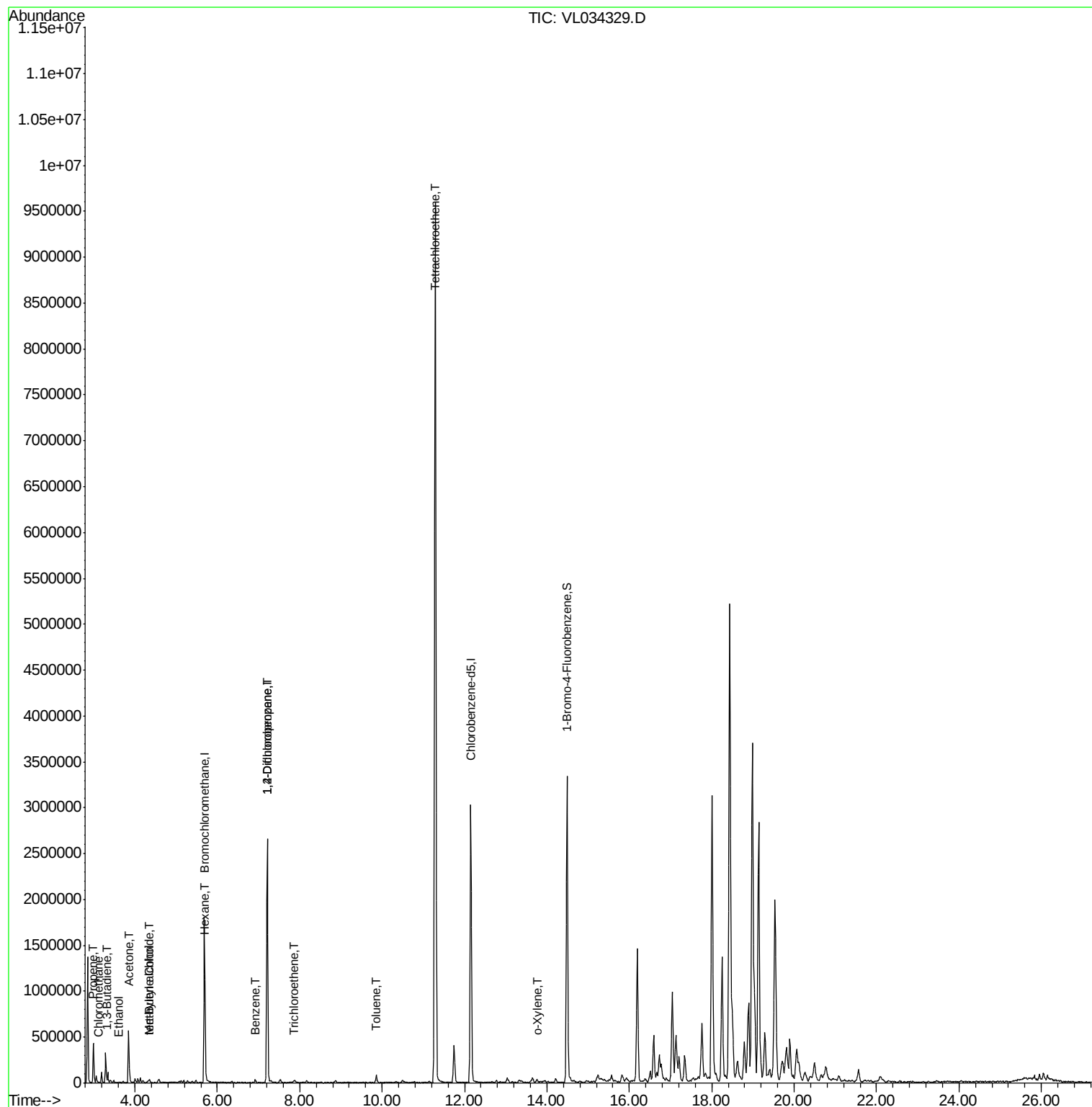
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.12	50	2929	0.048	ppbv	94
9) Propene	2.99	41	168666	3.716	ppbv	94
13) Ethanol	3.61	45	2901	0.285	ppbv	62
15) Acetone	3.84	43	584812	4.681	ppbv	99
16) 1,3-Butadiene	3.32	39	5021	0.099	ppbv #	1
17) tert-Butyl alcohol	4.33	59	2822	0.035	ppbv #	71
20) Methylene Chloride	4.34	84	3534	0.078	ppbv #	72
26) Hexane	5.71	57	13722	0.153	ppbv #	36
36) Benzene	6.92	78	9494	0.054	ppbv #	93
38) Trichloroethene	7.88	130	5100	0.072	ppbv #	78
39) 1,2-Dichloropropane	7.21	63	518389	6.813	ppbv #	22
52) Tetrachloroethene	11.29	164	2608361	37.659	ppbv	95
53) Toluene	9.86	91	34210	0.175	ppbv #	58
60) o-Xylene	13.76	91	15161	0.067	ppbv	87

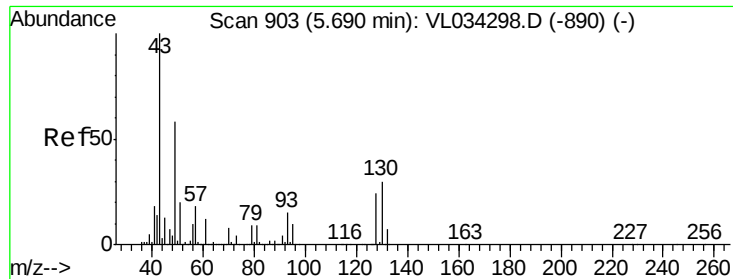
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SV2DL2

Quant Time: Oct 18 04:36:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

SV2DL2

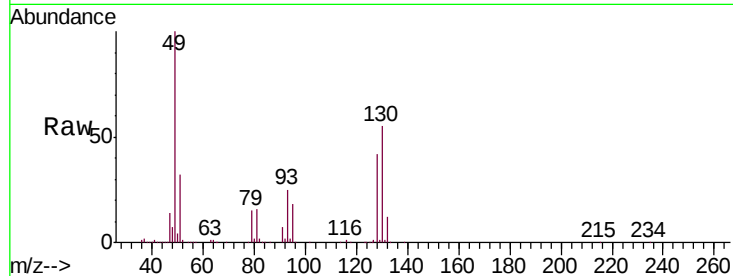
Tgt Ion: 49 Resp: 873460

Ion Ratio Lower Upper

49 100

128 44.8 20.6 61.8

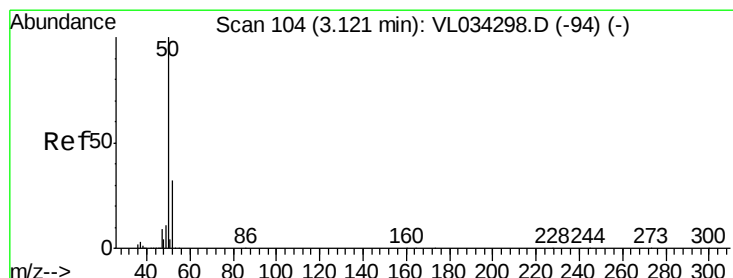
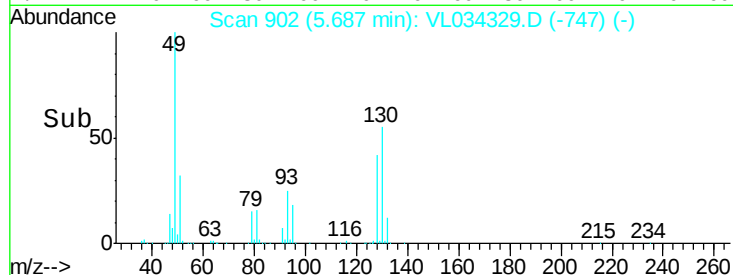
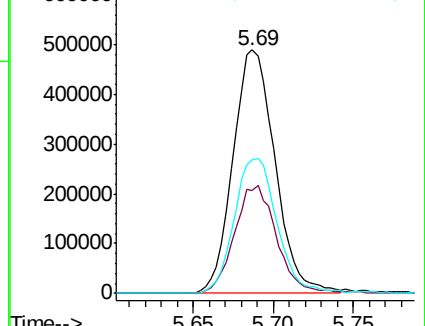
130 57.0 26.2 78.5



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



#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034329.D

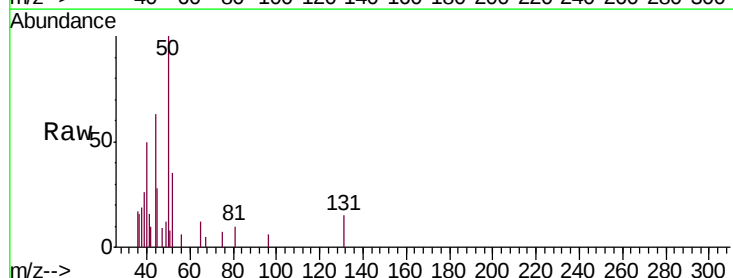
Acq: 17 Oct 2019 23:20

Tgt Ion: 50 Resp: 2929

Ion Ratio Lower Upper

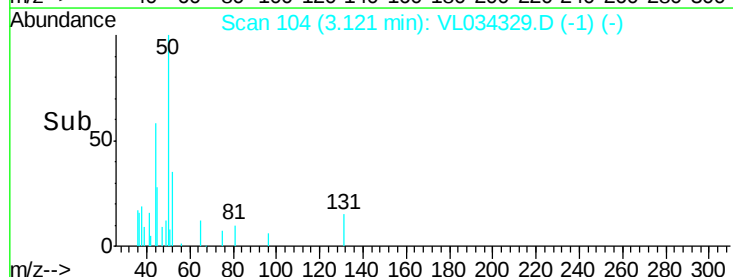
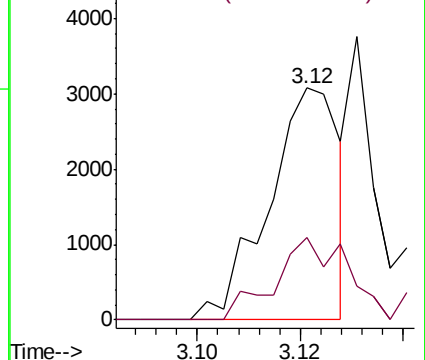
50 100

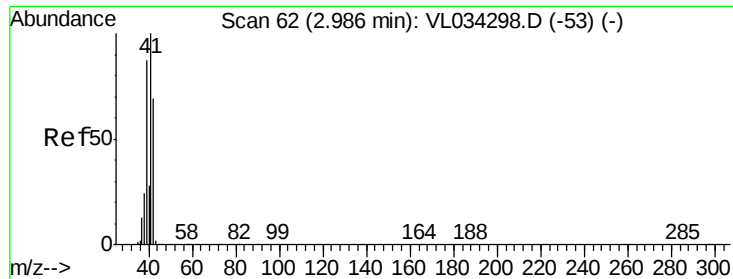
52 35.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.716 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

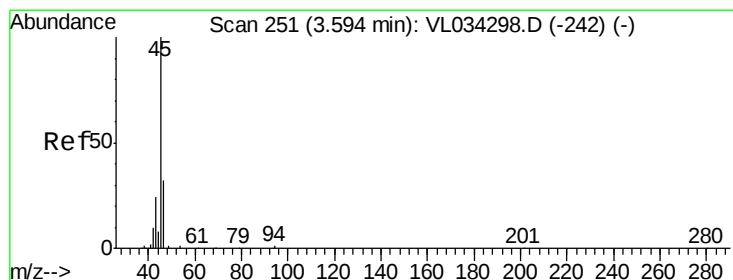
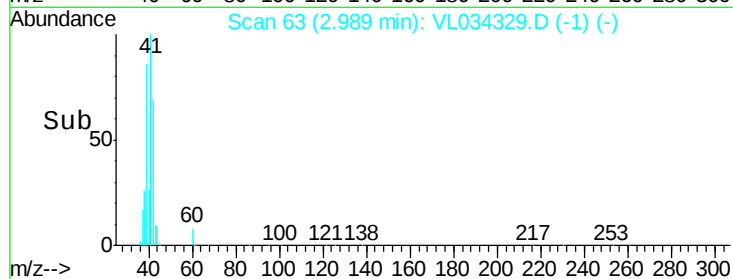
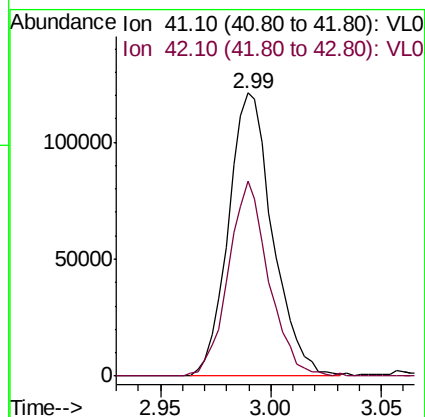
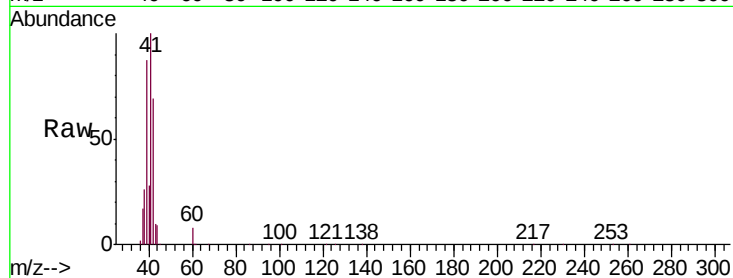
SV2DL2

Tgt Ion: 41 Resp: 168666

Ion Ratio Lower Upper

41 100

42 62.8 53.9 80.9



#13

Ethanol

Concen: 0.285 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL034329.D

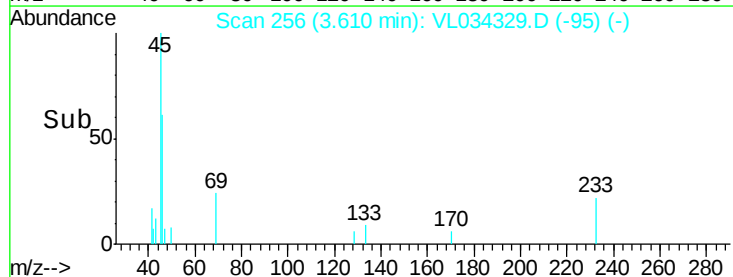
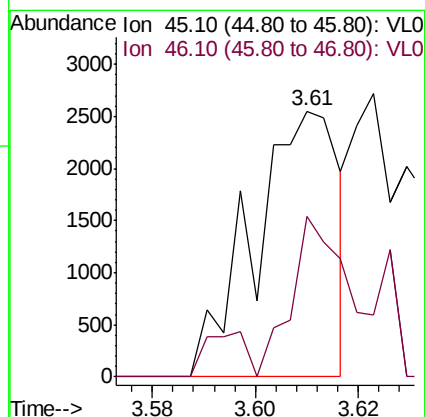
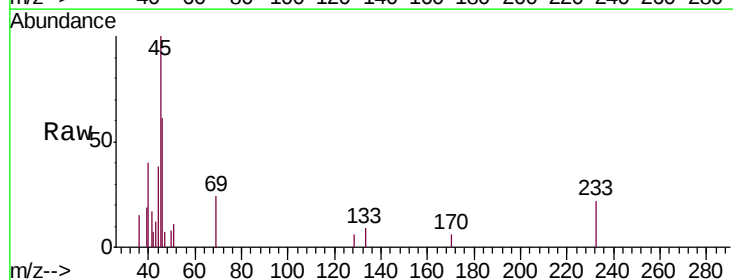
Acq: 17 Oct 2019 23:20

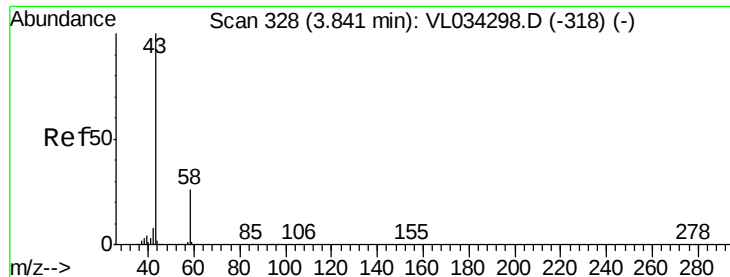
Tgt Ion: 45 Resp: 2901

Ion Ratio Lower Upper

45 100

46 63.0 15.8 63.2





#15

Acetone

Concen: 4.681 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

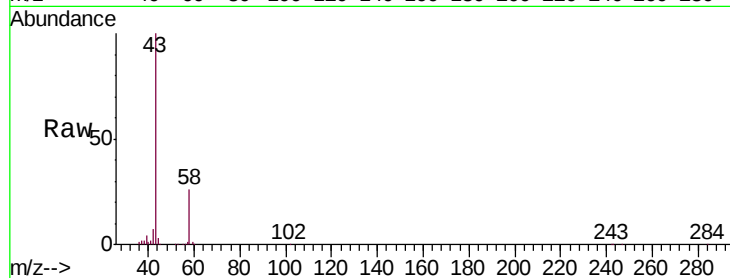
SV2DL2

Tgt Ion: 43 Resp: 584812

Ion Ratio Lower Upper

43 100

58 26.2 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

400000

300000

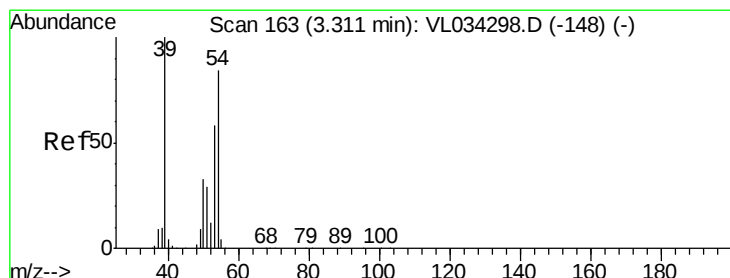
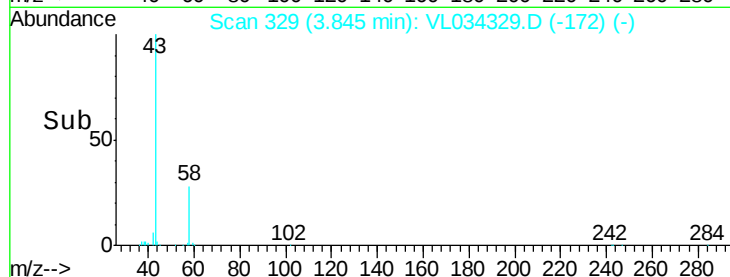
200000

100000

0

Time-->

3.80 3.85 3.90



#16

1,3-Butadiene

Concen: 0.099 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.01 min

Lab File: VL034329.D

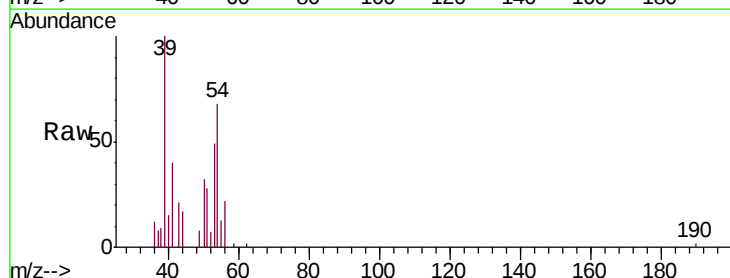
Acq: 17 Oct 2019 23:20

Tgt Ion: 39 Resp: 5021

Ion Ratio Lower Upper

39 100

54 282.8 63.9 95.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

20000

15000

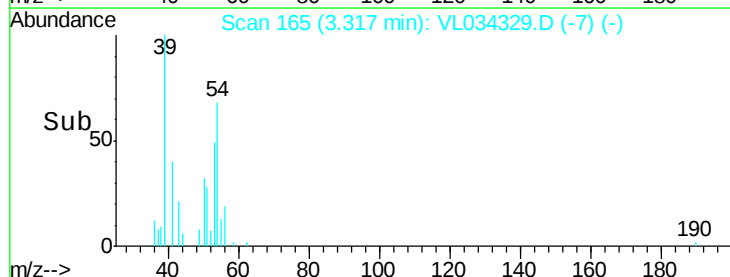
10000

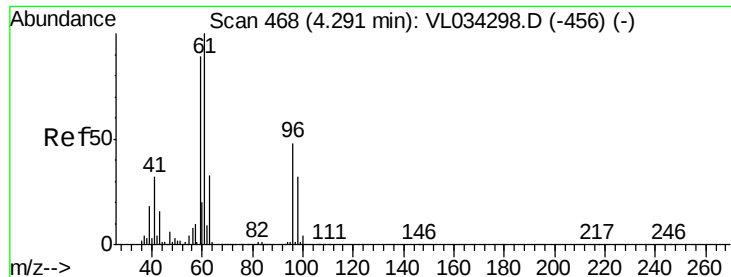
5000

0

Time-->

3.31 3.31 3.32 3.33 3.33





#17

tert-Butyl alcohol

Concen: 0.035 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.04 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

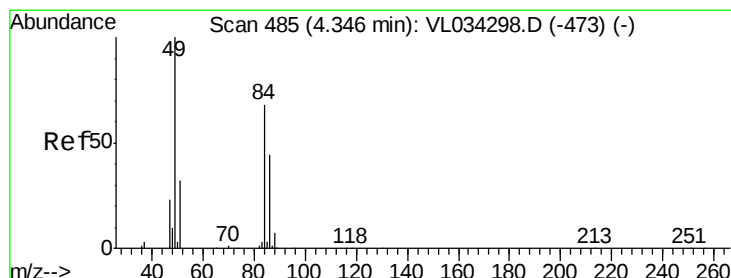
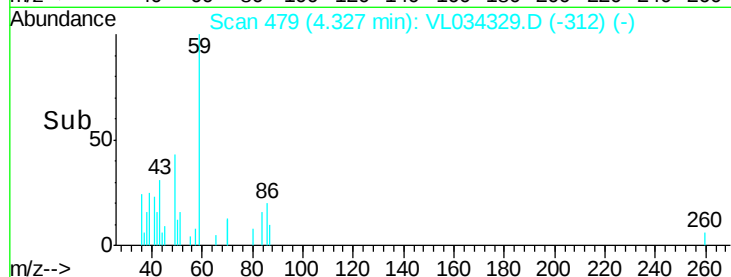
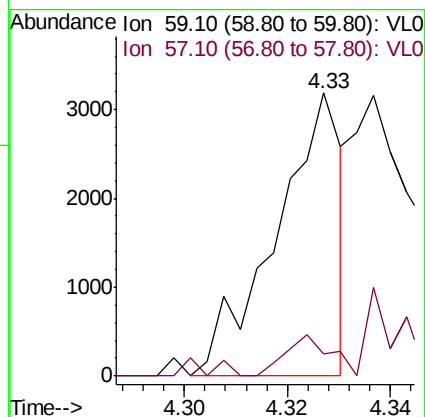
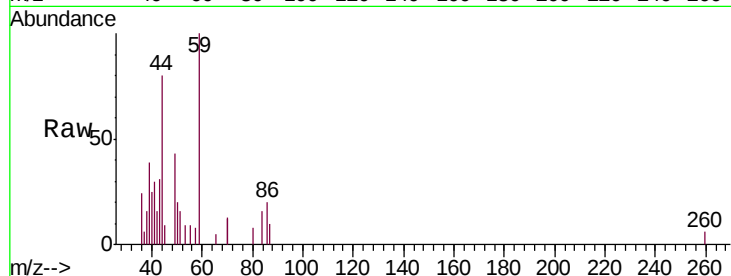
SV2DL2

Tgt Ion: 59 Resp: 2822

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



#20

Methylene Chloride

Concen: 0.078 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Tgt Ion: 84 Resp: 3534

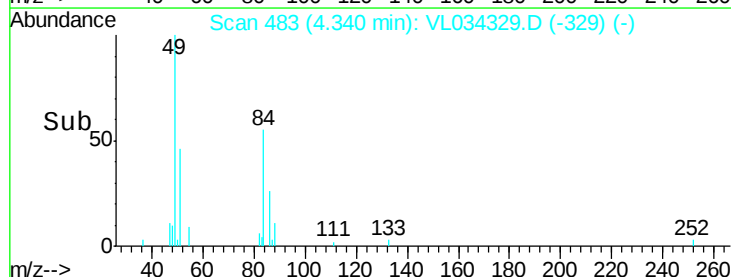
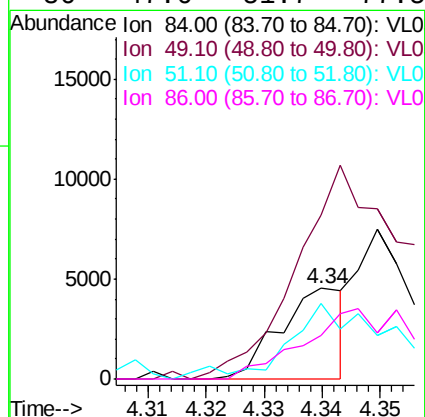
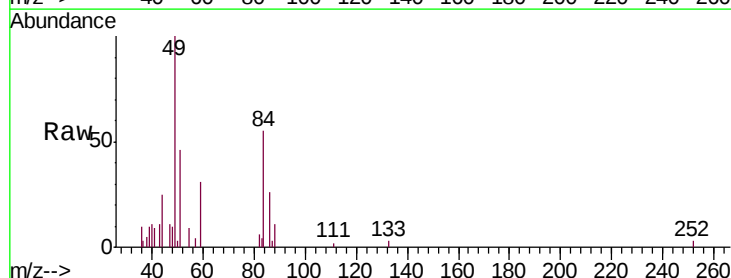
Ion Ratio Lower Upper

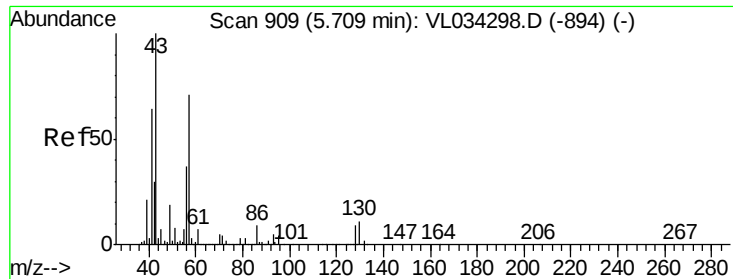
84 100

49 181.4 118.5 177.7#

51 76.7 38.8 58.2#

86 47.6 51.7 77.5#

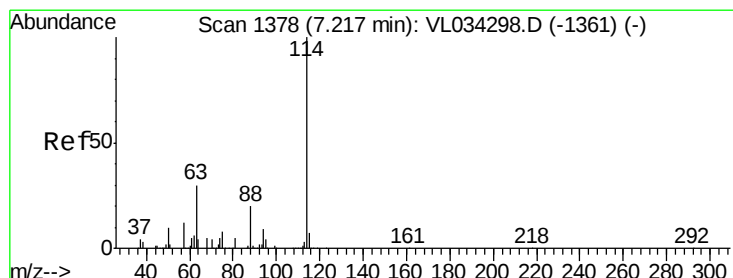
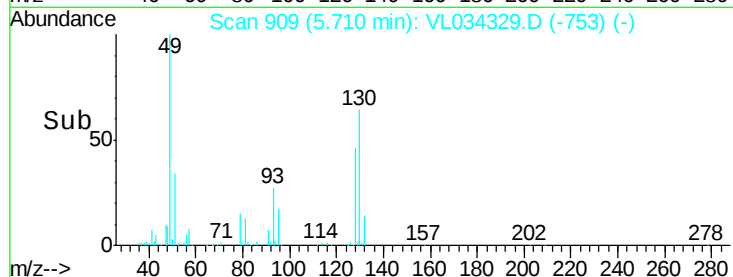
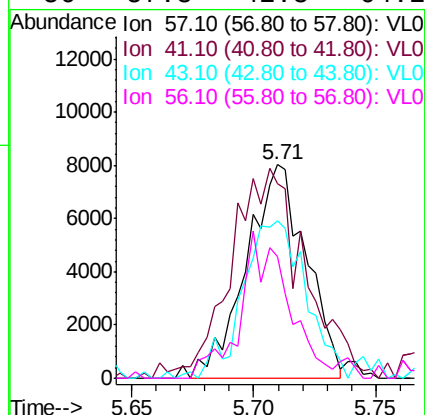
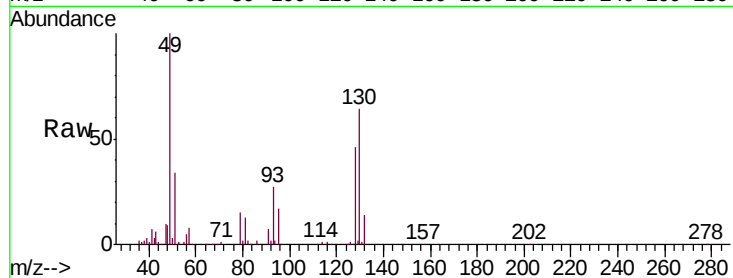




#26
Hexane
Concen: 0.153 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL034329.D
Acq: 17 Oct 2019 23:20

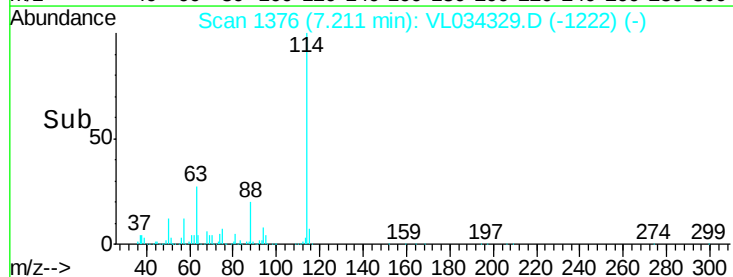
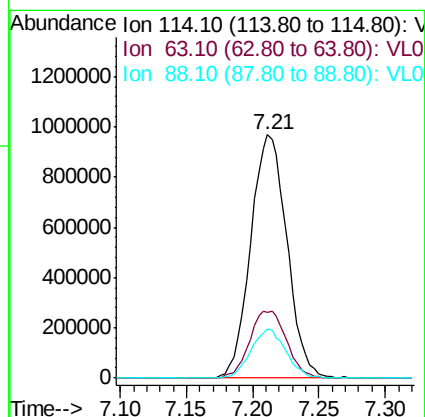
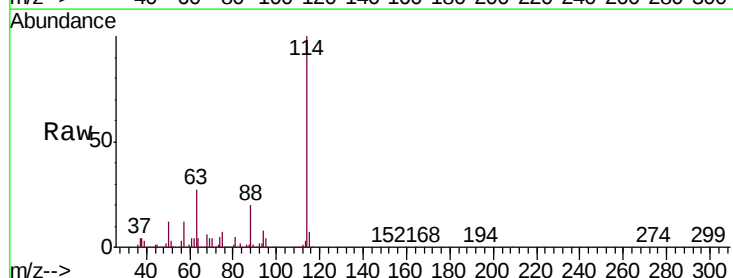
Instrument :
MSVOA_L
ClientSampleId :
SV2DL2

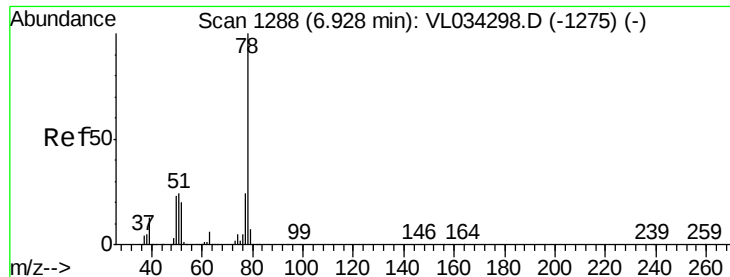
Tgt Ion: 57 Resp: 13722
Ion Ratio Lower Upper
57 100
41 122.1 76.5 114.7#
43 81.5 188.5 282.7#
56 57.8 42.8 64.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.01 min
Lab File: VL034329.D
Acq: 17 Oct 2019 23:20

Tgt Ion: 114 Resp: 1841670
Ion Ratio Lower Upper
114 100
63 28.3 25.2 37.8
88 19.6 16.0 24.0





#36

Benzene

Concen: 0.054 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. -0.01 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

SV2DL2

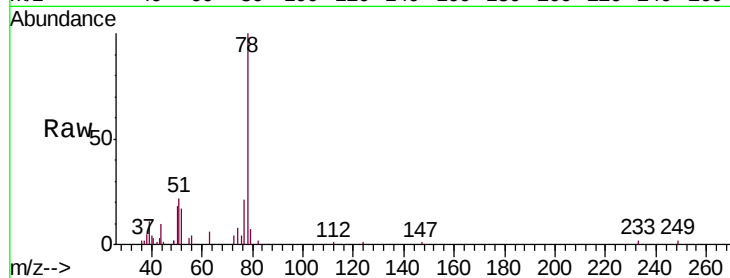
Tgt Ion: 78 Resp: 9494

Ion Ratio Lower Upper

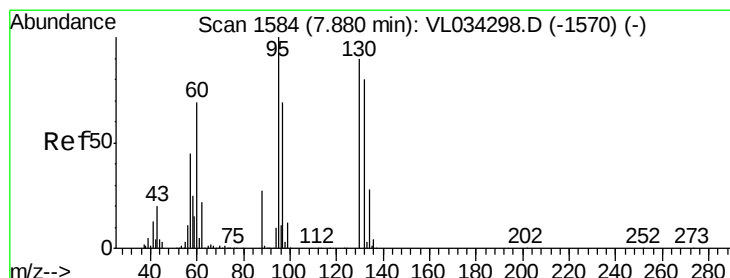
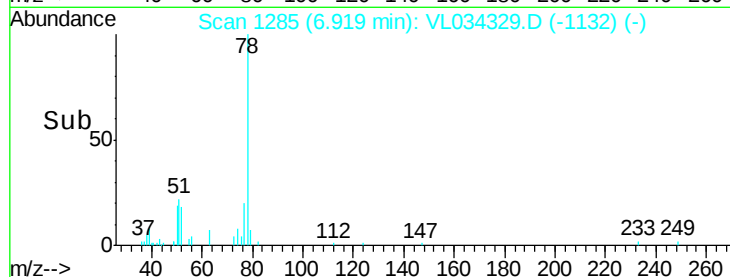
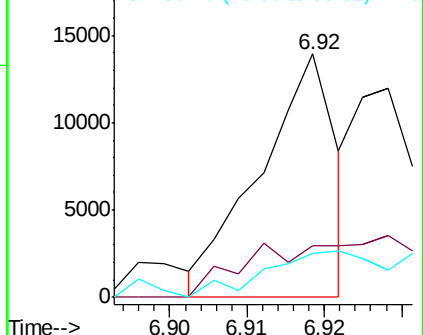
78 100

77 23.6 19.0 28.4

50 16.6 18.6 27.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.072 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Tgt Ion: 130 Resp: 5100

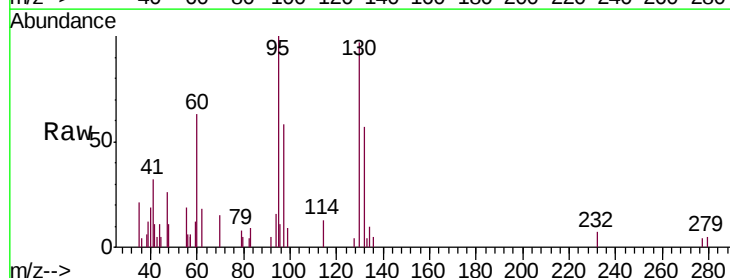
Ion Ratio Lower Upper

130 100

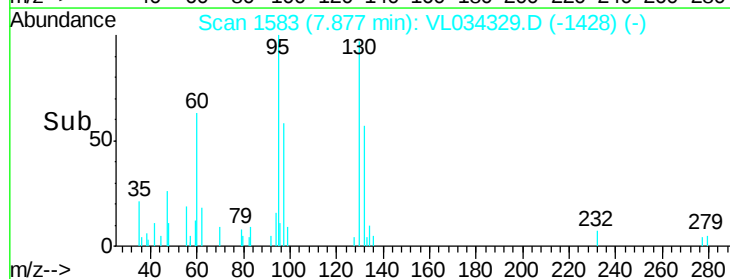
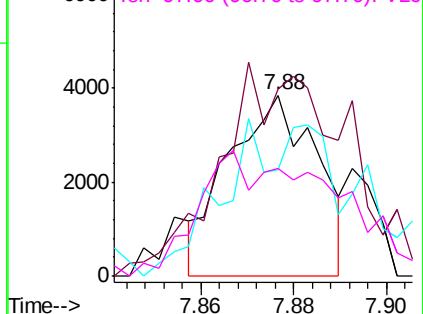
95 99.0 88.6 132.8

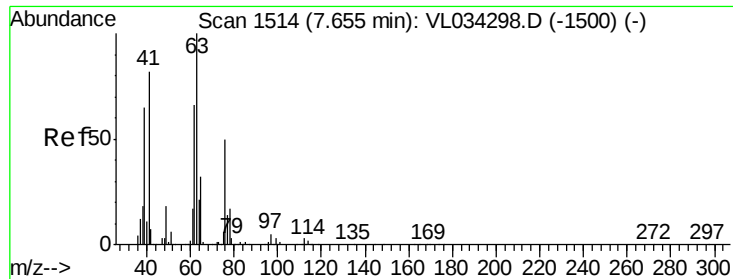
132 61.4 71.2 106.8#

97 52.5 61.0 91.4#



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0

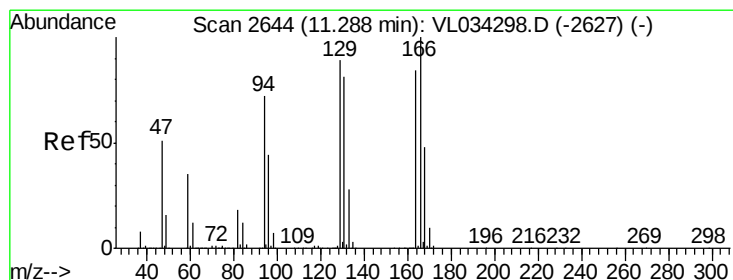
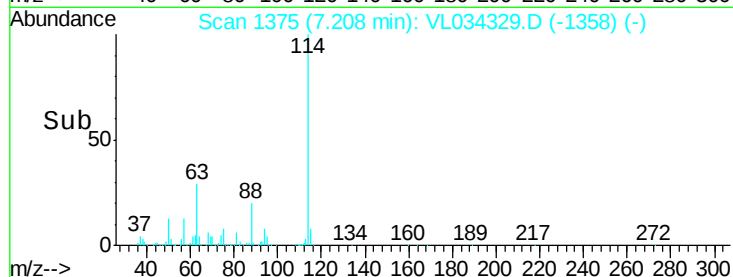
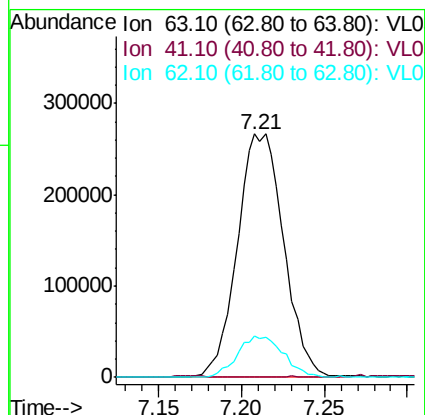
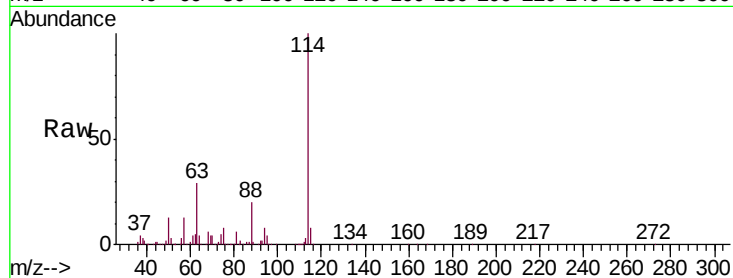




#39
 1,2-Dichloropropane
 Concen: 6.813 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.45 min
 Lab File: VL034329.D
 Acq: 17 Oct 2019 23:20

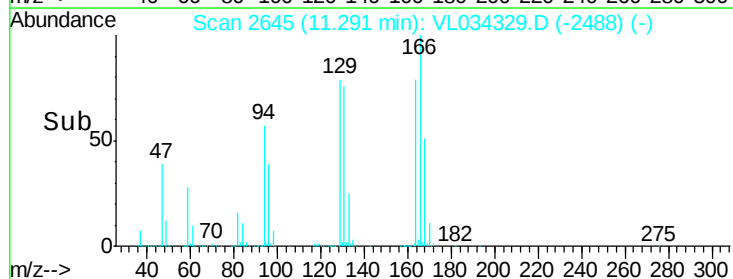
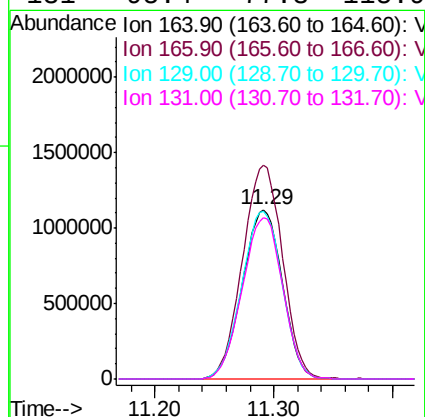
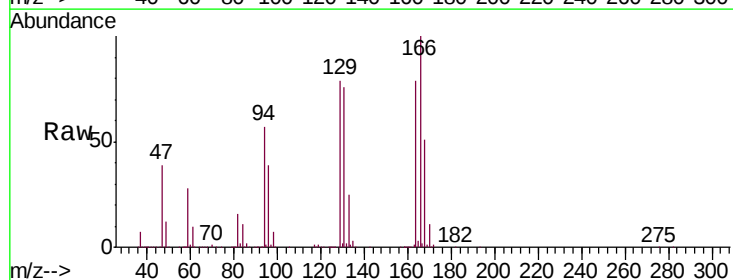
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL2

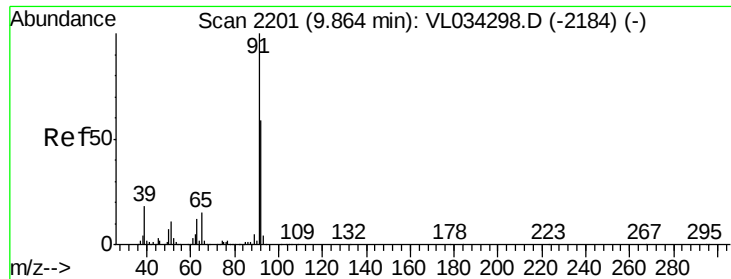
Tgt Ion: 63 Resp: 518389
 Ion Ratio Lower Upper
 63 100
 41 0.0 65.6 98.4#
 62 17.0 53.0 79.6#



#52
 Tetrachloroethene
 Concen: 37.659 ppbv
 RT: 11.29 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VL034329.D
 Acq: 17 Oct 2019 23:20

Tgt Ion: 164 Resp: 2608361
 Ion Ratio Lower Upper
 164 100
 166 125.9 95.3 142.9
 129 99.2 84.5 126.7
 131 95.4 77.3 115.9





#53

Toluene

Concen: 0.175 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. -0.01 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

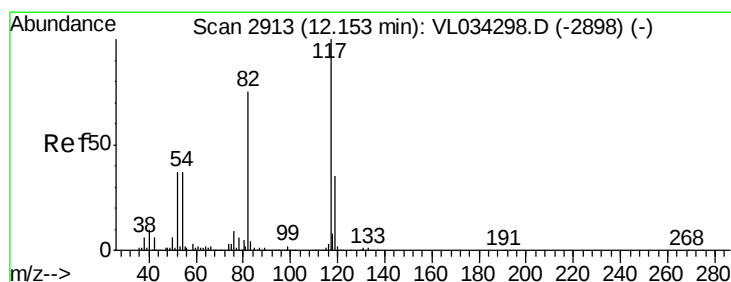
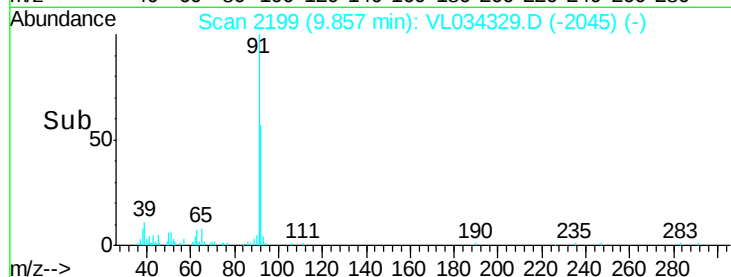
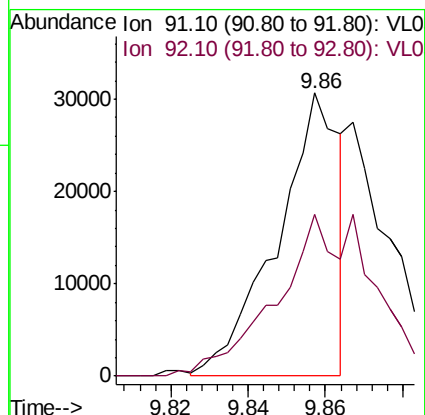
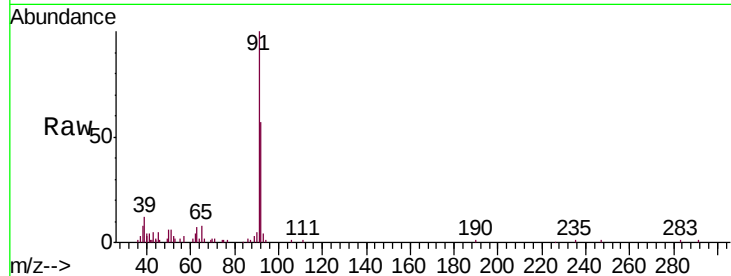
SV2DL2

Tgt Ion: 91 Resp: 34210

Ion Ratio Lower Upper

91 100

92 92.8 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

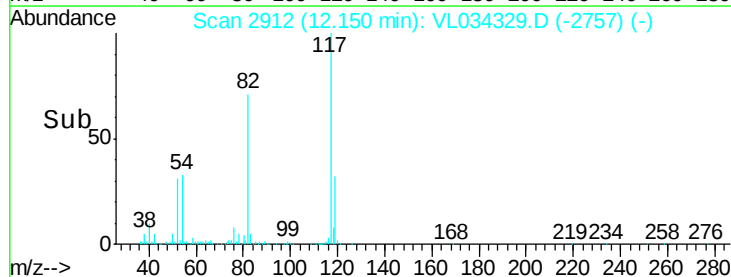
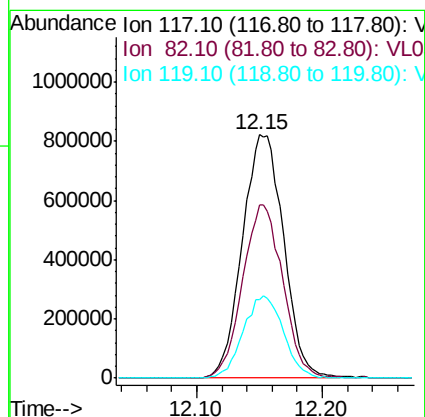
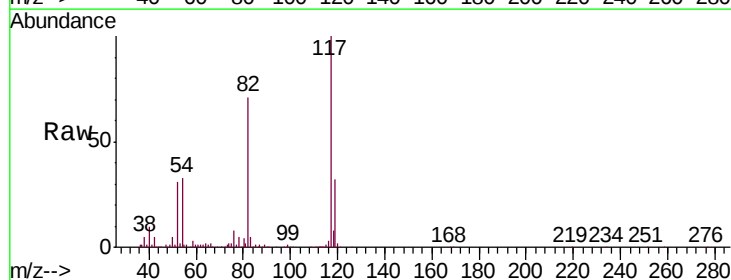
Tgt Ion: 117 Resp: 1882742

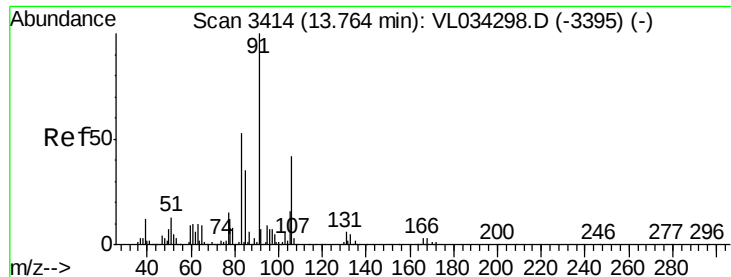
Ion Ratio Lower Upper

117 100

82 69.6 55.5 83.3

119 33.0 26.5 39.7





#60

o-Xylene

Concen: 0.067 ppbv

RT: 13.76 min Scan# 3412

Delta R.T. -0.01 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

Instrument :

MSVOA_L

ClientSampleId :

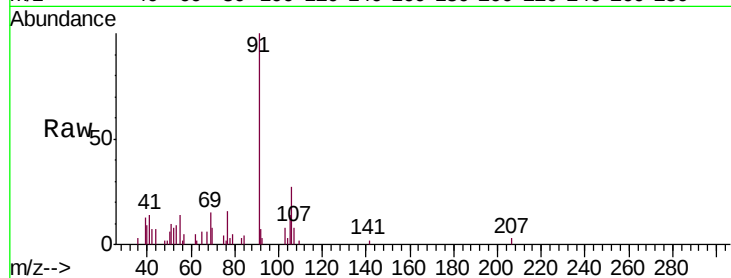
SV2DL2

Tgt Ion: 91 Resp: 15161

Ion Ratio Lower Upper

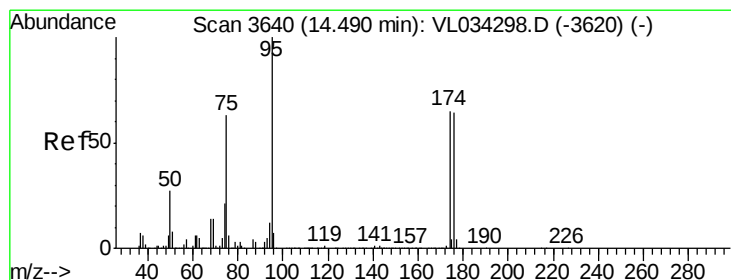
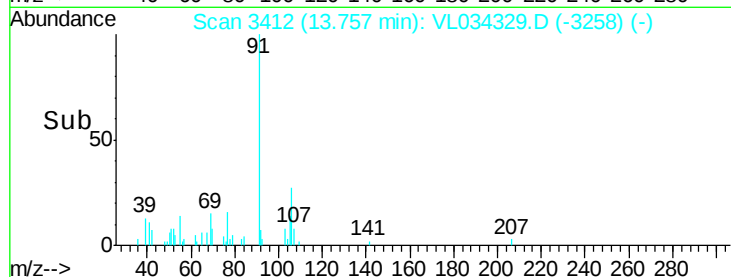
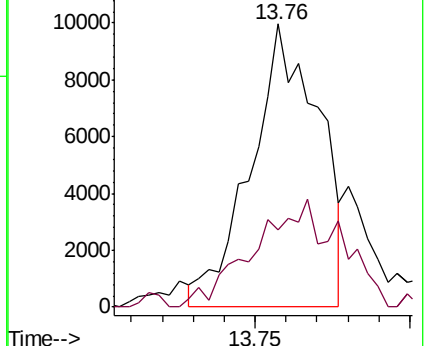
91 100

106 51.6 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.885 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VL034329.D

Acq: 17 Oct 2019 23:20

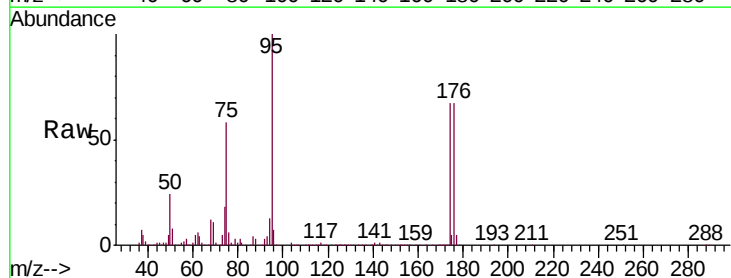
Tgt Ion: 95 Resp: 1576202

Ion Ratio Lower Upper

95 100

174 69.1 52.6 78.8

175 5.1 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

