

Data File : VL034219.D
Acq On : 2 Oct 2019 20:29
Operator : SY/AP
Sample : K5106-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Quant Time: Oct 03 05:44:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	870586	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1595244	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1610228	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1375815	9.83	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

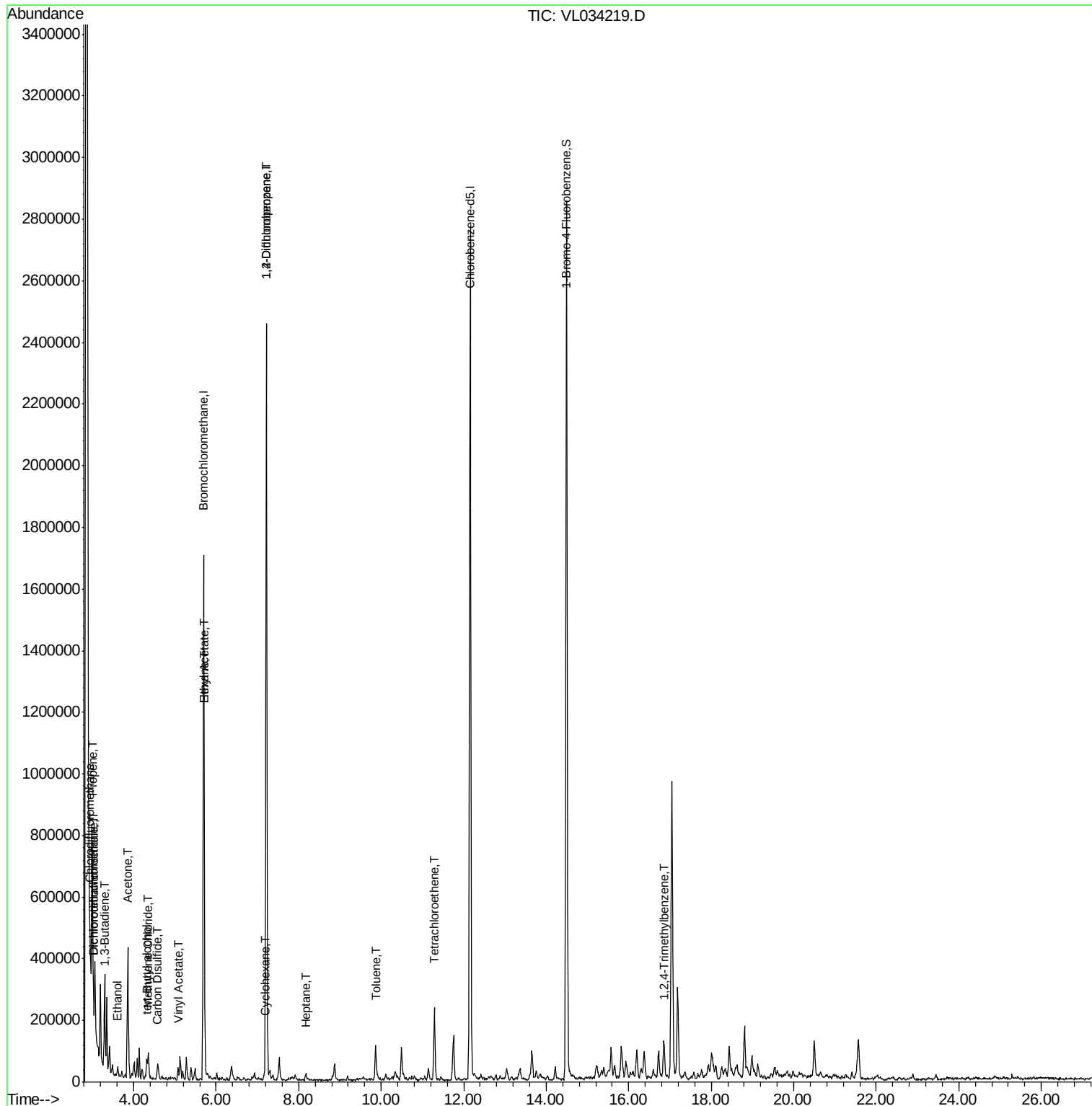
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	10157	0.079	ppbv #	72
3) Chlorodifluoromethane	2.94	51	7526	0.074	ppbv #	60
8) Dichlorotetrafluoroethane	3.03	85	10157	0.089	ppbv #	21
9) Propene	2.99	41	214153	4.252	ppbv	92
10) Heptane	8.17	43	4022	0.031	ppbv #	1
13) Ethanol	3.62	45	29794	2.443	ppbv	100
15) Acetone	3.85	43	443145	3.798	ppbv	100
16) 1,3-Butadiene	3.31	39	12808	0.252	ppbv #	45
17) tert-Butyl alcohol	4.32	59	40797	0.552	ppbv	94
20) Methylene Chloride	4.35	84	24065	0.715	ppbv	93
23) Vinyl Acetate	5.09	43	17360	0.101	ppbv #	35
25) Ethyl Acetate	5.72	43	26599	0.121	ppbv	98
26) Hexane	5.72	57	58460	0.637	ppbv #	51
27) Carbon Disulfide	4.56	76	17334	0.205	ppbv #	79
30) Cyclohexane	7.17	84	3591	0.054	ppbv #	1
39) 1,2-Dichloropropane	7.22	63	483087	6.103	ppbv #	19
52) Tetrachloroethene	11.29	164	25703	0.442	ppbv	93
53) Toluene	9.86	91	83460	0.433	ppbv	97
74) 1,2,4-Trimethylbenzene	16.84	105	10636	0.043	ppbv #	56

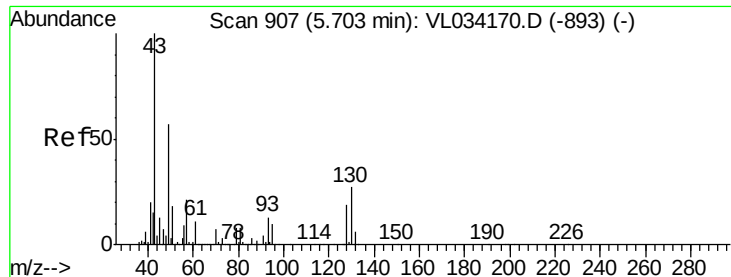
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

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MSVOA_L

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SV-1DL

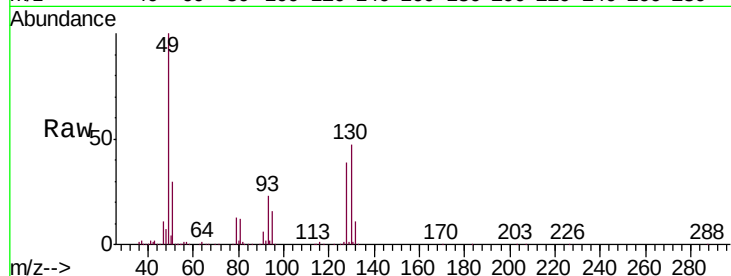
Tgt Ion: 49 Resp: 870586

Ion Ratio Lower Upper

49 100

128 37.3 17.6 52.9

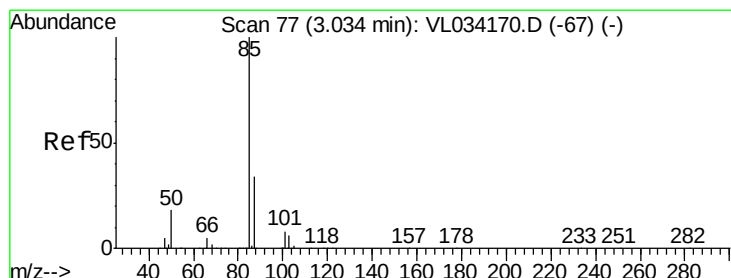
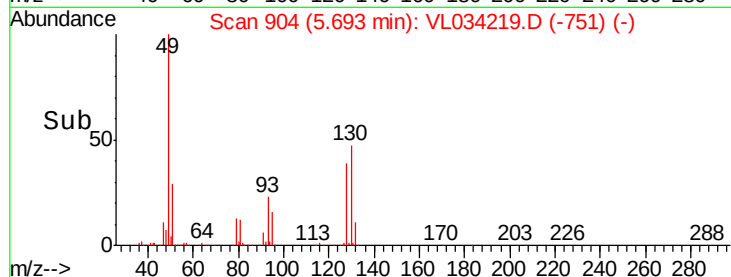
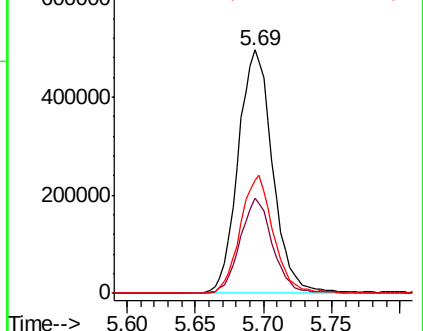
130 46.9 22.3 66.9



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: 0.079 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034219.D

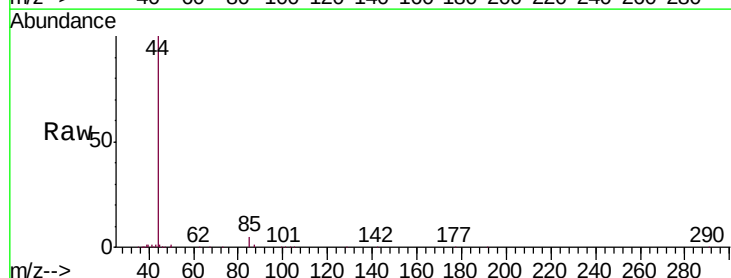
Acq: 2 Oct 2019 20:29

Tgt Ion: 85 Resp: 10157

Ion Ratio Lower Upper

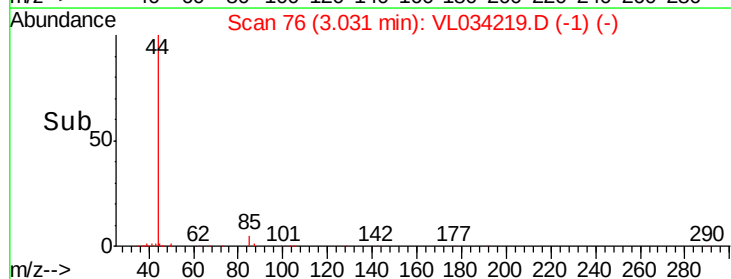
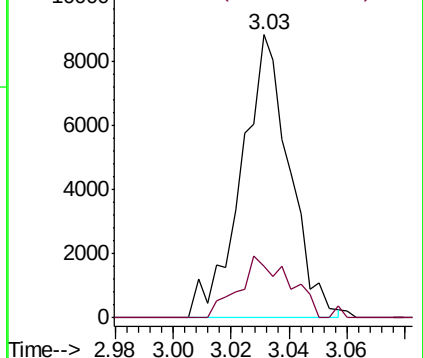
85 100

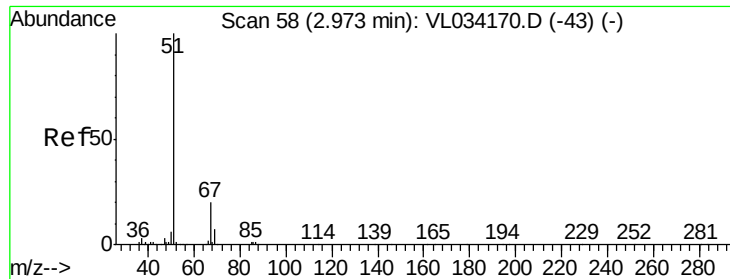
87 18.2 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.074 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.03 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

Instrument :

MSVOA_L

ClientSampleId :

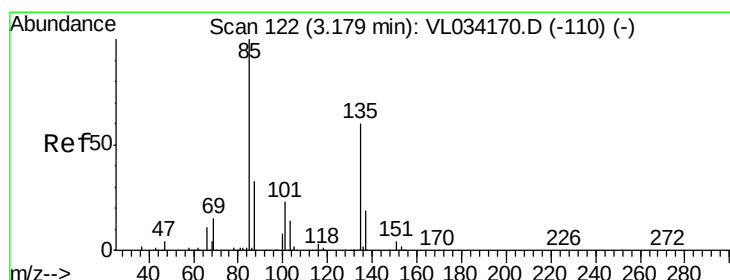
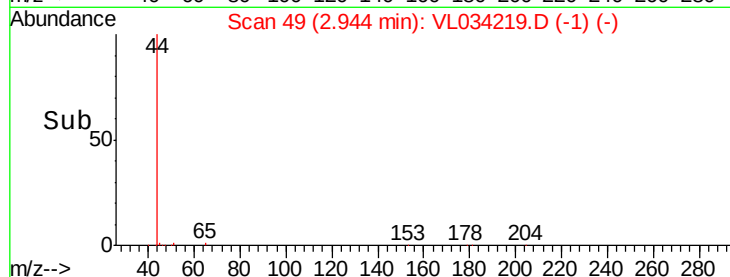
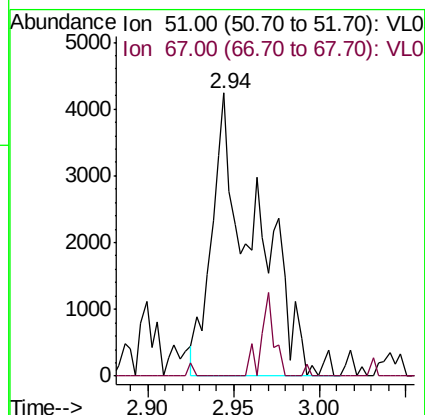
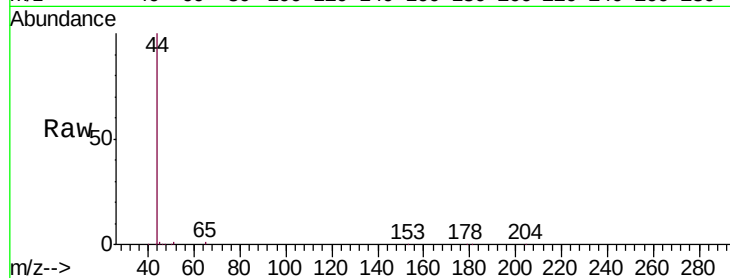
SV-1DL

Tgt Ion: 51 Resp: 7526

Ion Ratio Lower Upper

51 100

67 0.5 14.8 22.2#



#8

Dichlorotetrafluoroethane

Concen: 0.089 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.15 min

Lab File: VL034219.D

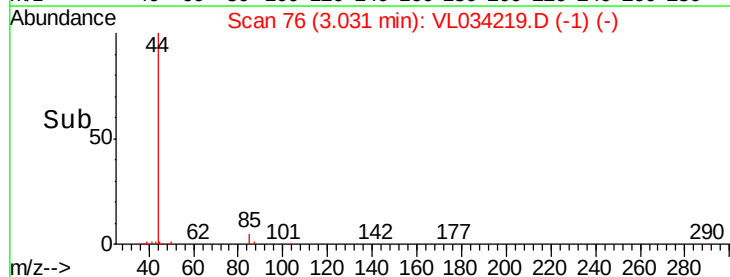
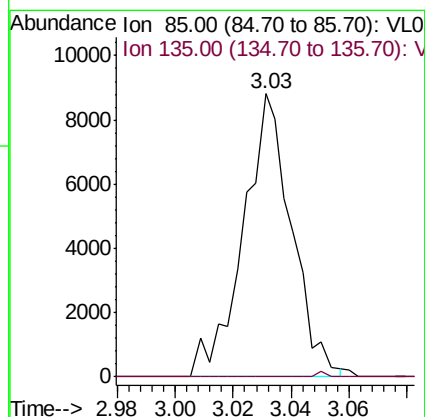
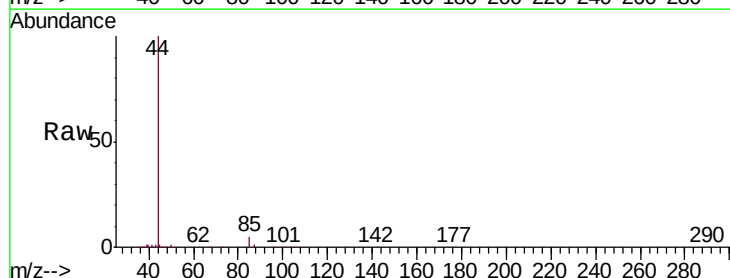
Acq: 2 Oct 2019 20:29

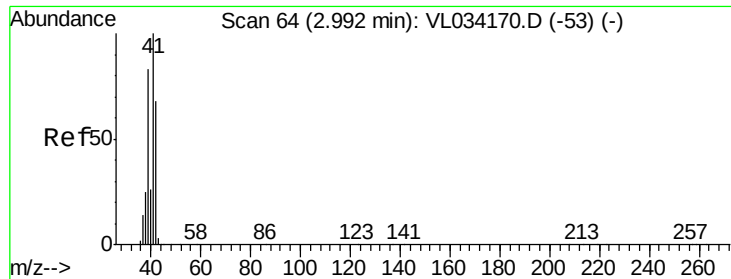
Tgt Ion: 85 Resp: 10157

Ion Ratio Lower Upper

85 100

135 0.0 47.3 70.9#





#9

Propene

Concen: 4.252 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

Instrument :

MSVOA_L

ClientSampleId :

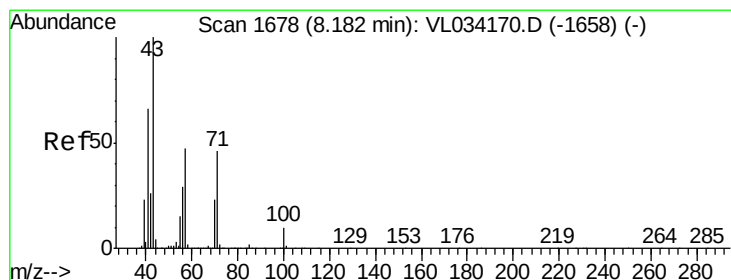
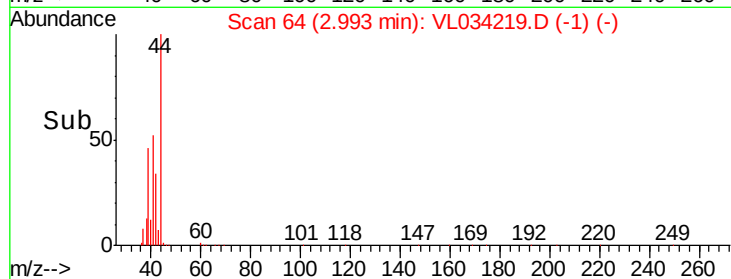
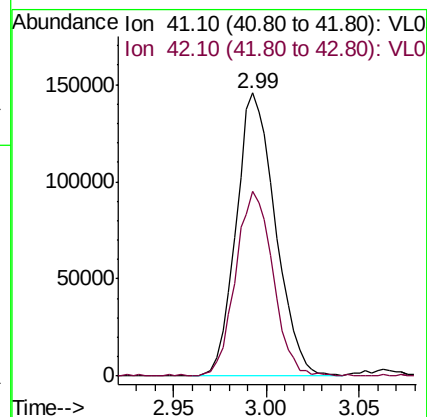
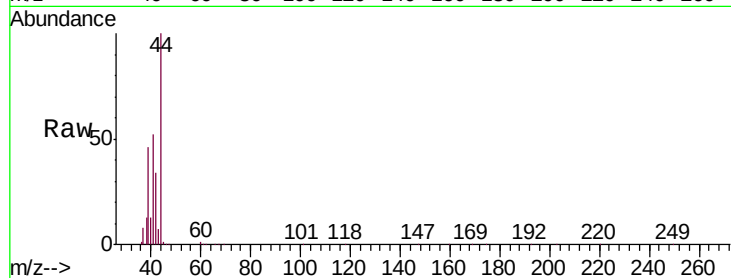
SV-1DL

Tgt Ion: 41 Resp: 214153

Ion Ratio Lower Upper

41 100

42 62.8 55.8 83.6



#10

Heptane

Concen: 0.031 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034219.D

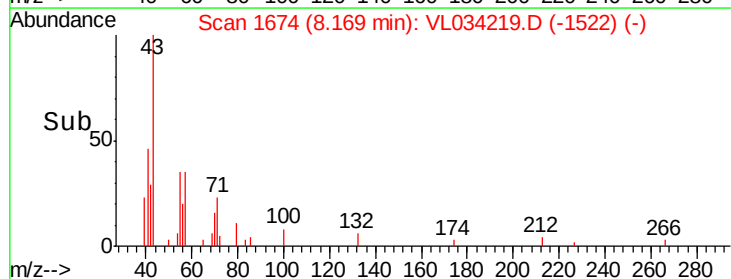
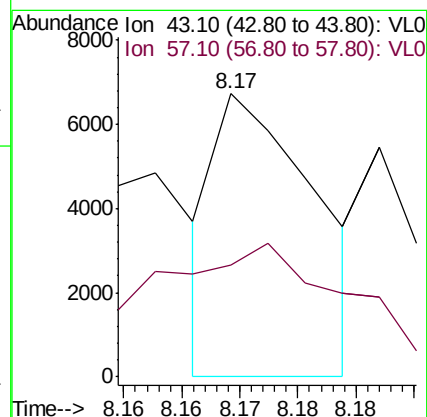
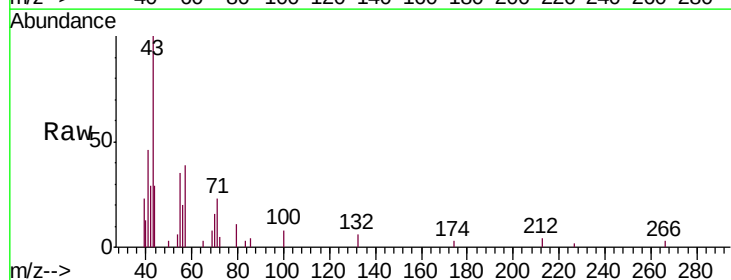
Acq: 2 Oct 2019 20:29

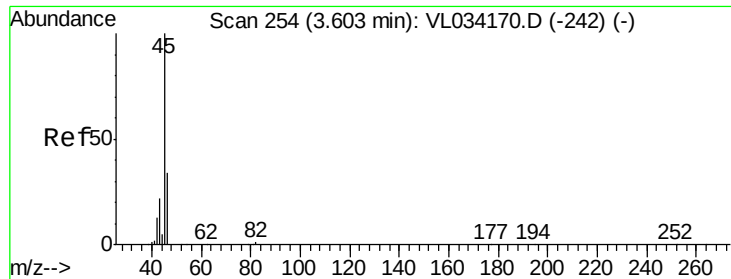
Tgt Ion: 43 Resp: 4022

Ion Ratio Lower Upper

43 100

57 144.1 37.5 56.3#

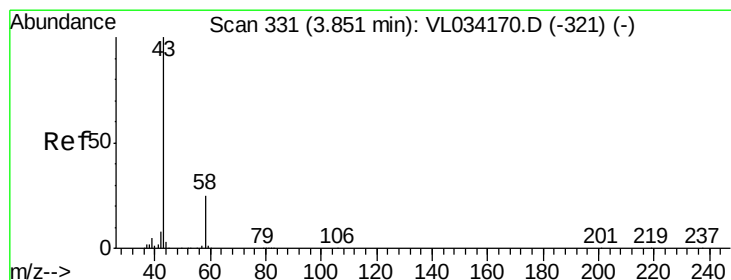
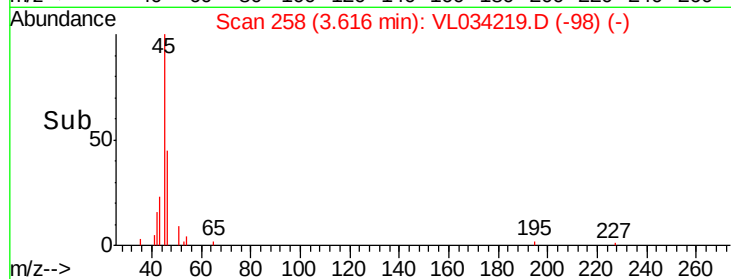
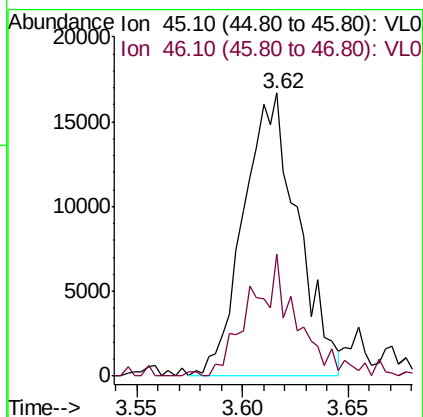
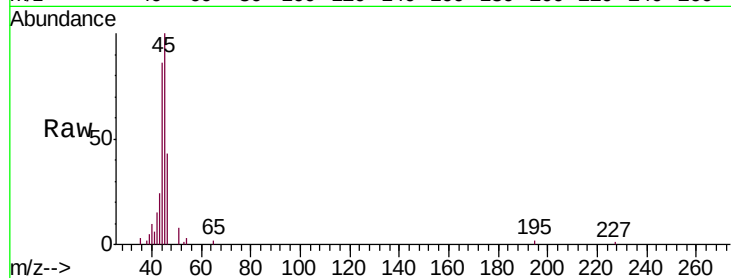




#13
Ethanol
Concen: 2.443 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

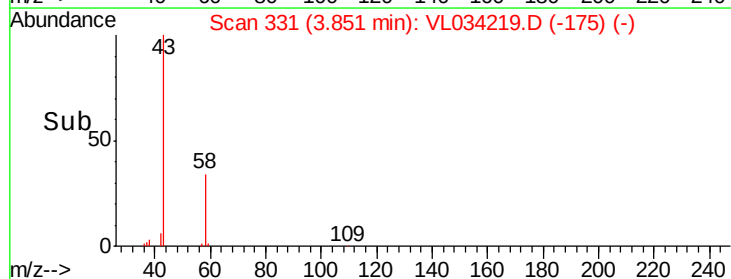
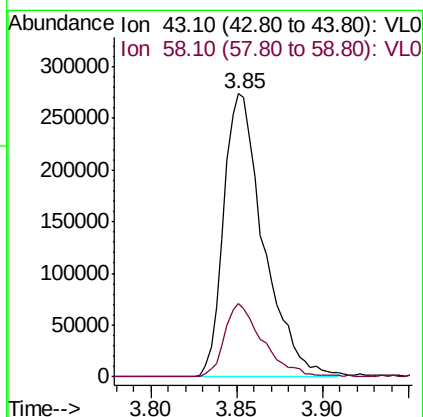
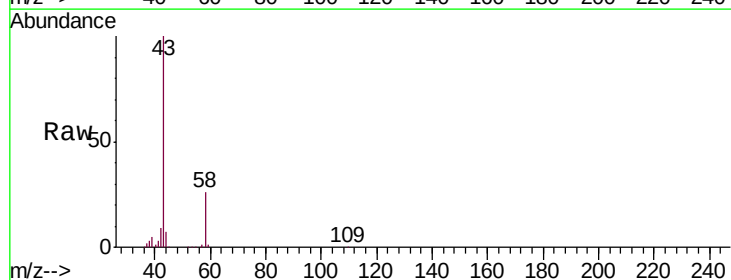
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

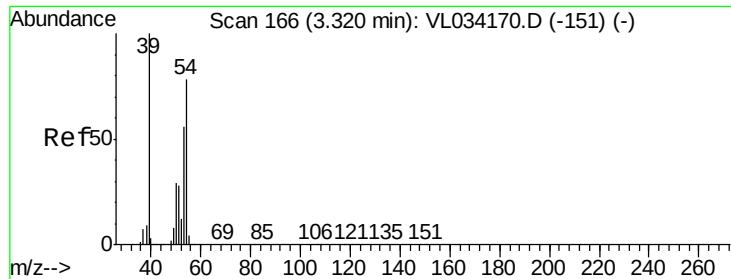
Tgt Ion: 45 Resp: 29794
Ion Ratio Lower Upper
45 100
46 38.9 15.5 61.9



#15
Acetone
Concen: 3.798 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

Tgt Ion: 43 Resp: 443145
Ion Ratio Lower Upper
43 100
58 25.4 20.5 30.7

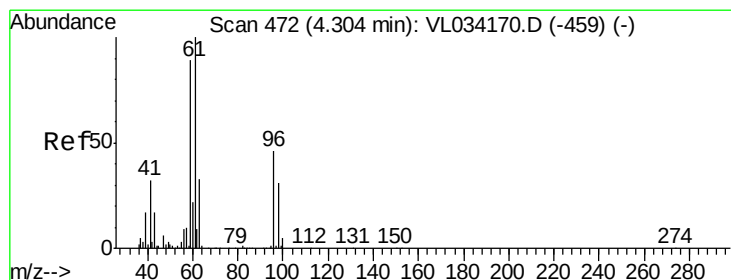
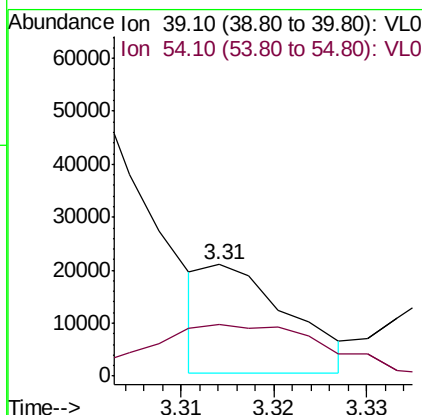
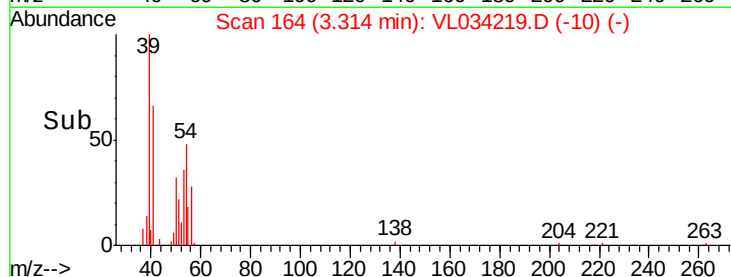
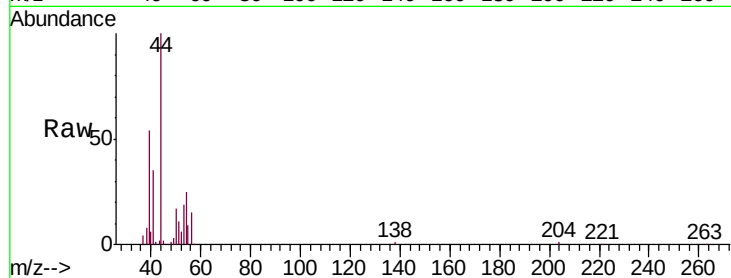




#16
 1,3-Butadiene
 Concen: 0.252 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VL034219.D
 Acq: 2 Oct 2019 20:29

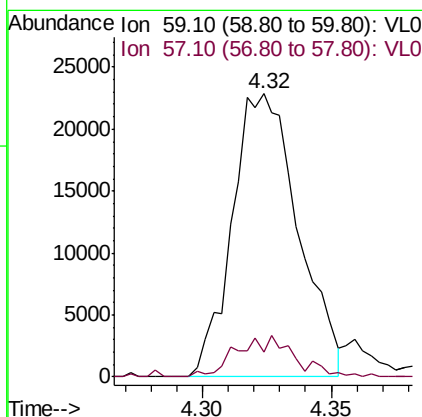
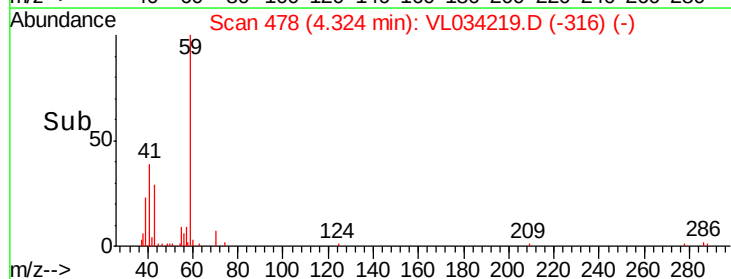
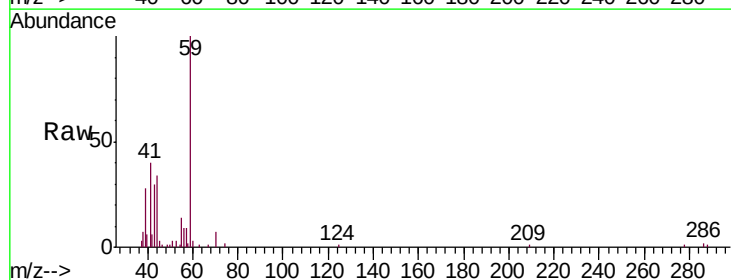
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

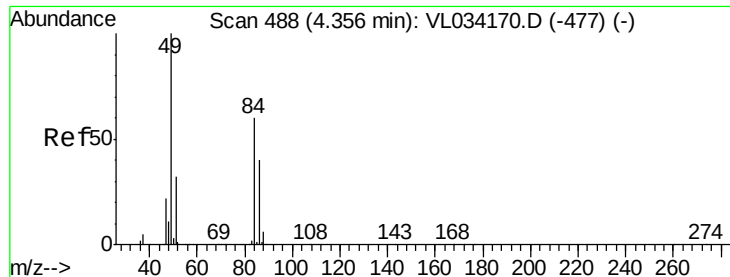
Tgt Ion: 39 Resp: 12808
 Ion Ratio Lower Upper
 39 100
 54 127.7 63.4 95.0#



#17
 tert-Butyl alcohol
 Concen: 0.552 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.02 min
 Lab File: VL034219.D
 Acq: 2 Oct 2019 20:29

Tgt Ion: 59 Resp: 40797
 Ion Ratio Lower Upper
 59 100
 57 13.0 8.7 13.1

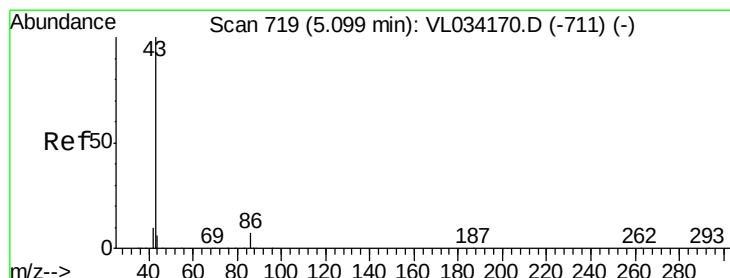
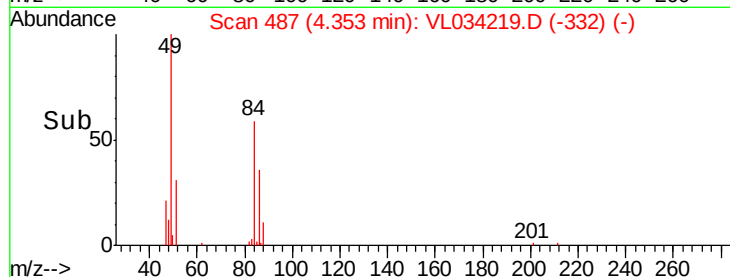
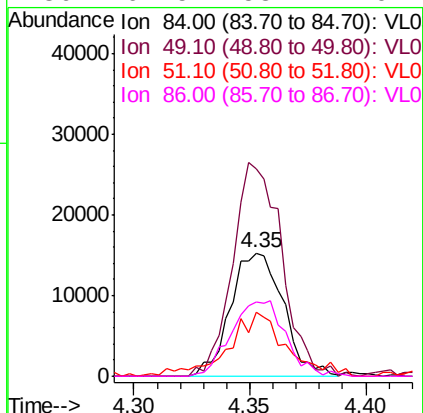
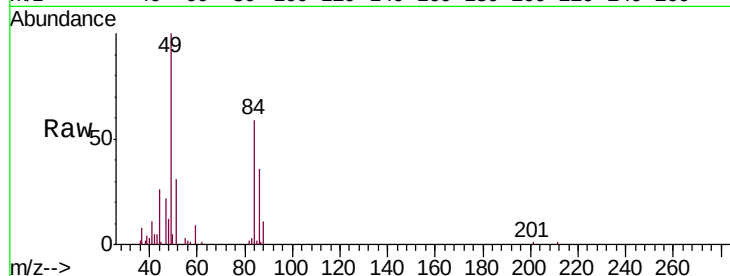




#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

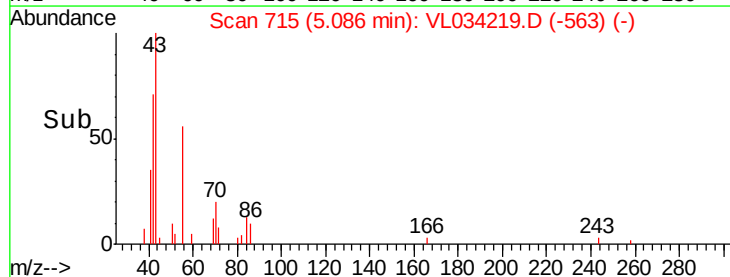
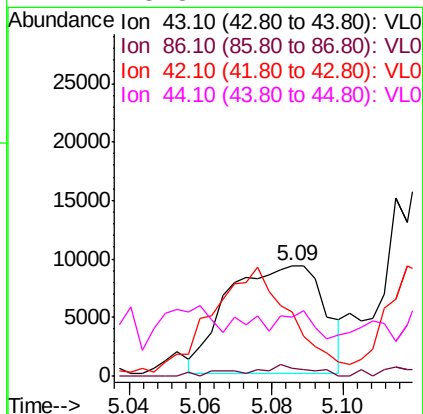
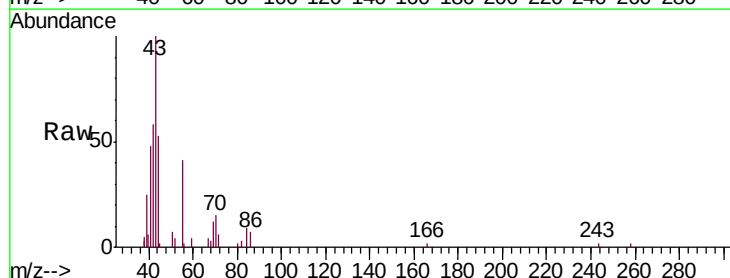
Instrument :
MSVOA_L
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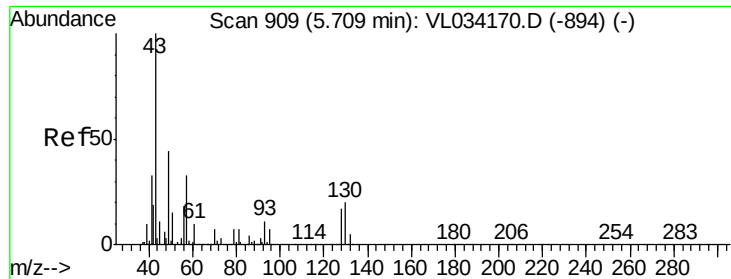
Tgt Ion:	84	Resp:	24065
Ion	Ratio	Lower	Upper
84	100		
49	176.8	133.8	200.8
51	49.3	43.6	65.4
86	62.5	53.1	79.7



#23
Vinyl Acetate
Concen: 0.101 ppbv
RT: 5.09 min Scan# 715
Delta R.T. -0.01 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

Tgt Ion:	43	Resp:	17360
Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.1	7.7#
42	53.5	8.6	12.8#
44	18.8	4.7	7.1#

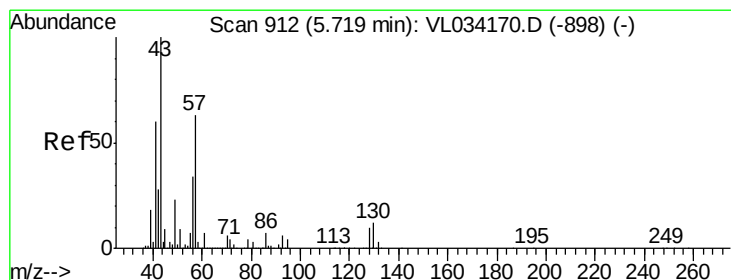
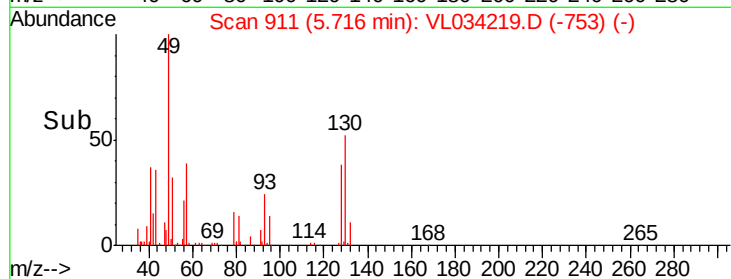
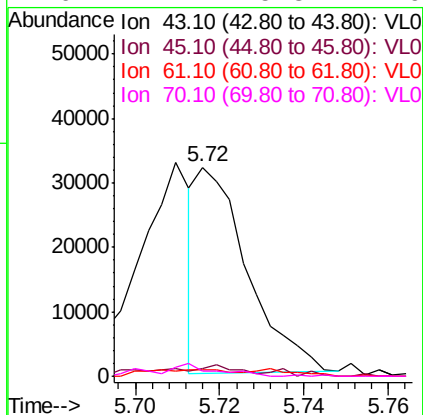
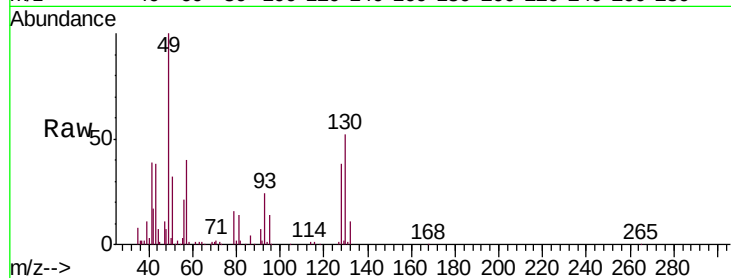




#25
Ethyl Acetate
Concen: 0.121 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

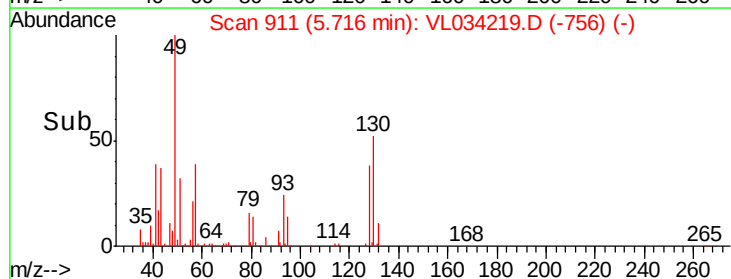
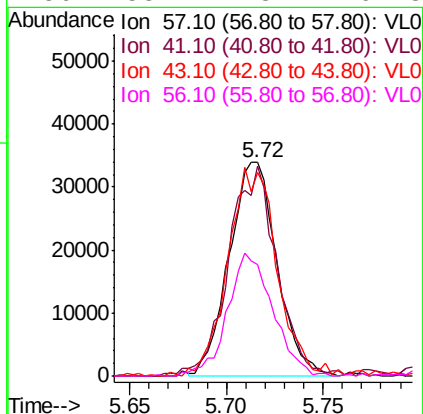
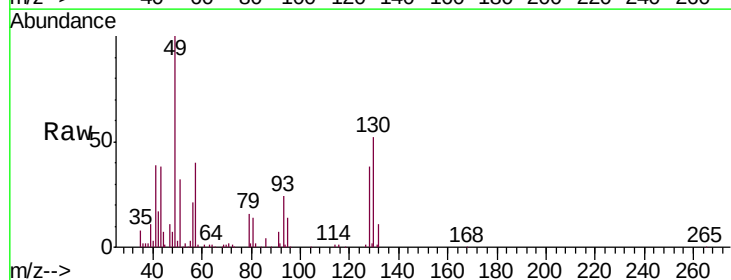
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

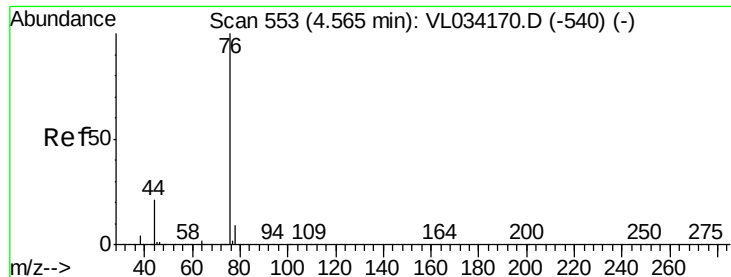
Tgt Ion:	43	Resp:	26599
Ion	Ratio	Lower	Upper
43	100		
45	11.5	8.4	12.6
61	8.5	7.2	10.8
70	7.4	5.3	7.9



#26
Hexane
Concen: 0.637 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

Tgt Ion:	57	Resp:	58460
Ion	Ratio	Lower	Upper
57	100		
41	99.0	78.5	117.7
43	101.9	189.5	284.3#
56	55.1	43.2	64.8





#27

Carbon Disulfide

Concen: 0.205 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

Instrument :

MSVOA_L

ClientSampled :

SV-1DL

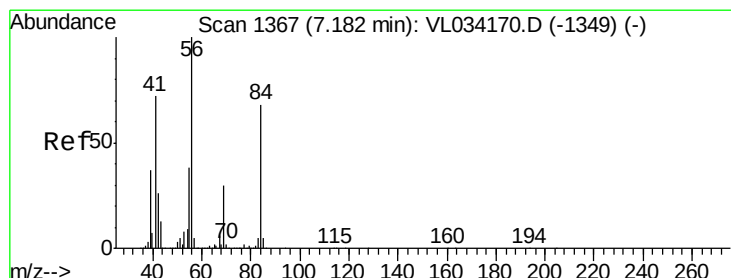
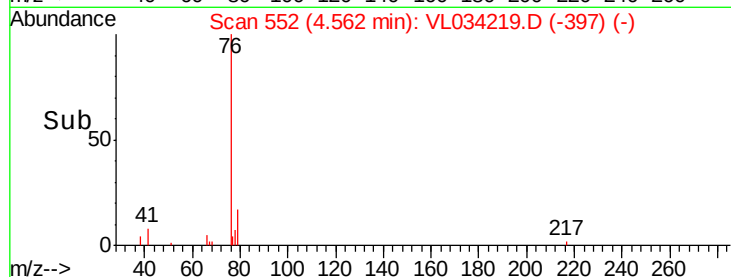
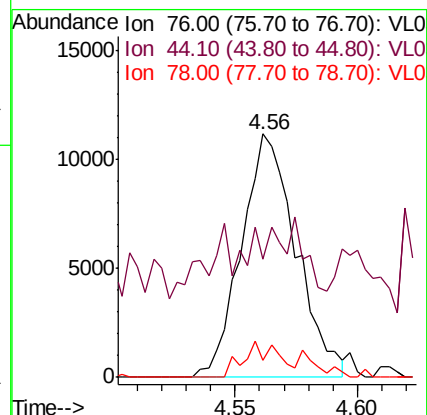
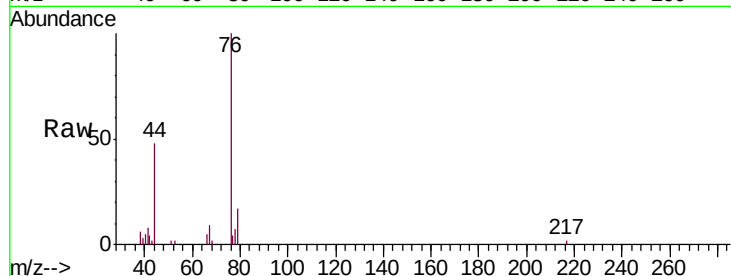
Tgt Ion: 76 Resp: 17334

Ion Ratio Lower Upper

76 100

44 33.8 17.6 26.4#

78 13.5 7.6 11.4#



#30

Cyclohexane

Concen: 0.054 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

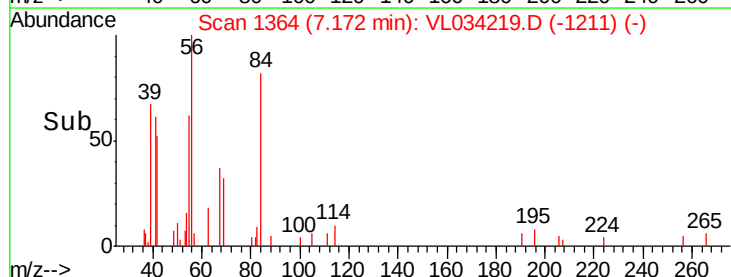
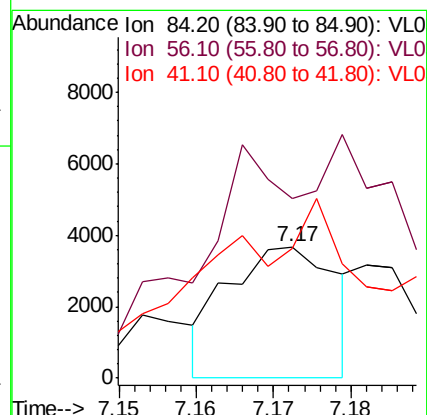
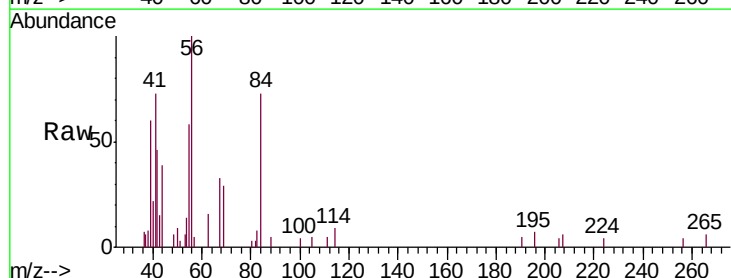
Tgt Ion: 84 Resp: 3591

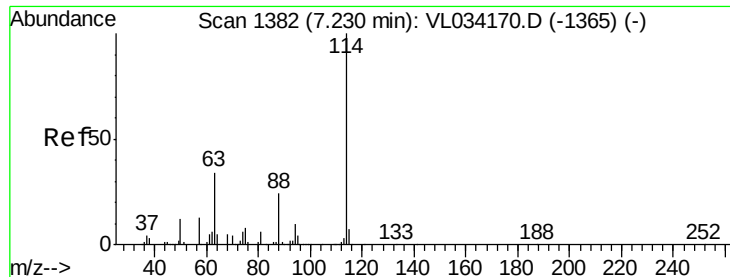
Ion Ratio Lower Upper

84 100

56 0.0 126.2 189.2#

41 297.0 85.8 128.8#

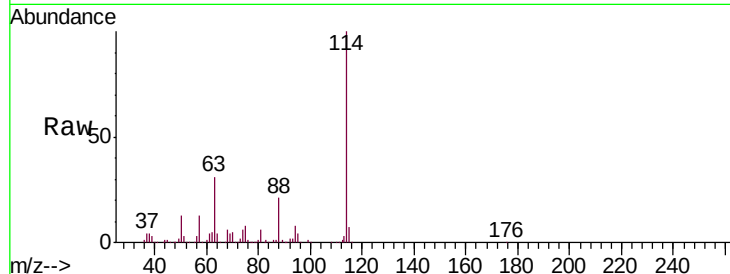




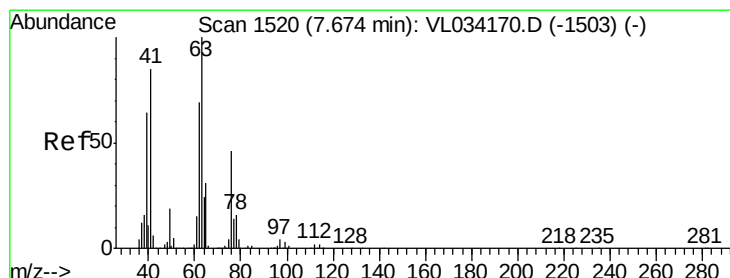
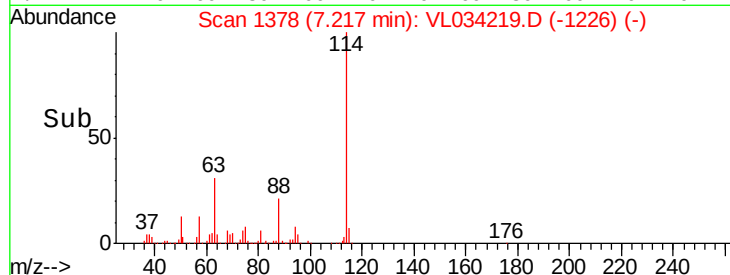
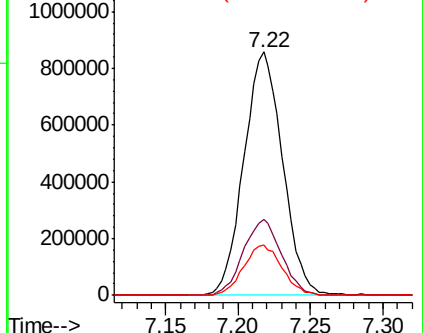
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VL034219.D
 Acq: 2 Oct 2019 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Tgt Ion: 114 Resp: 1595244
 Ion Ratio Lower Upper
 114 100
 63 30.7 27.8 41.6
 88 20.7 17.1 25.7

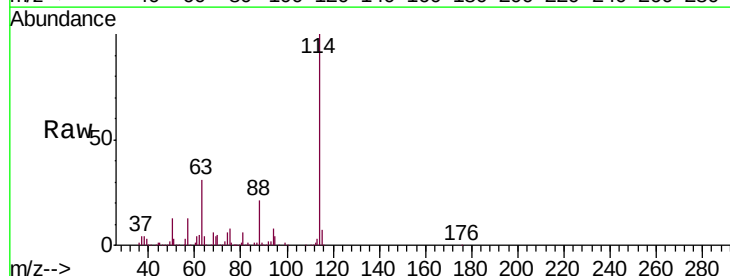


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

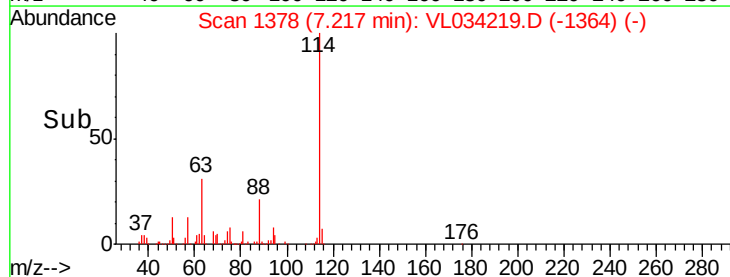
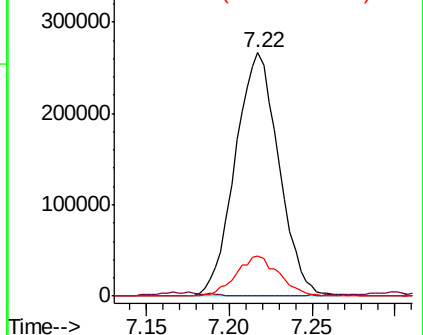


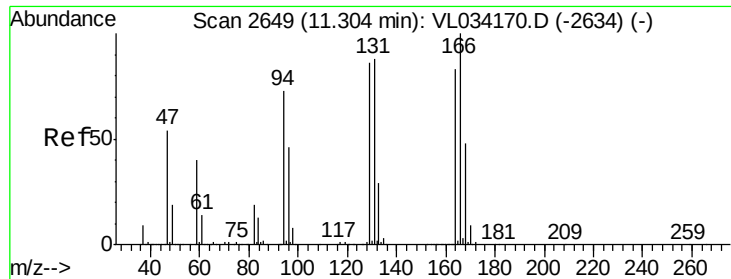
#39
 1,2-Dichloropropane
 Concen: 6.103 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.46 min
 Lab File: VL034219.D
 Acq: 2 Oct 2019 20:29

Tgt Ion: 63 Resp: 483087
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 16.6 55.4 83.2#



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: 0.442 ppbv

RT: 11.29 min Scan# 2645

Delta R.T. -0.01 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tgt Ion:164 Resp: 25703

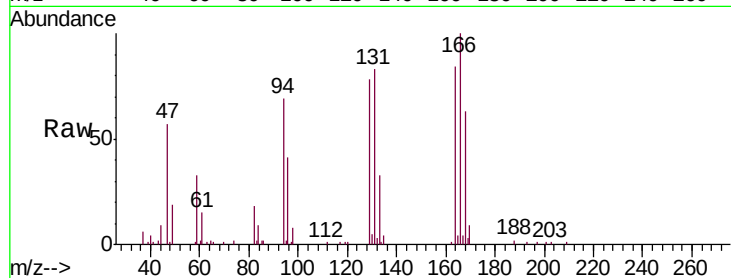
Ion Ratio Lower Upper

164 100

166 118.5 96.7 145.1

129 91.8 82.8 124.2

131 96.8 85.0 127.6

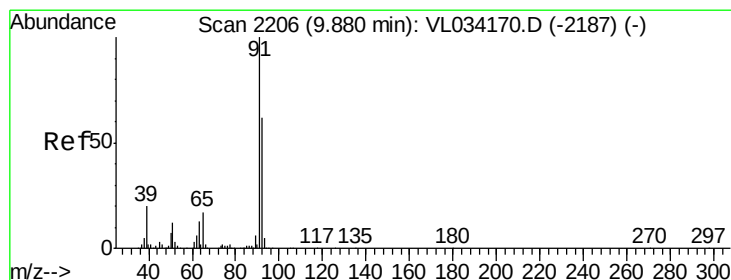
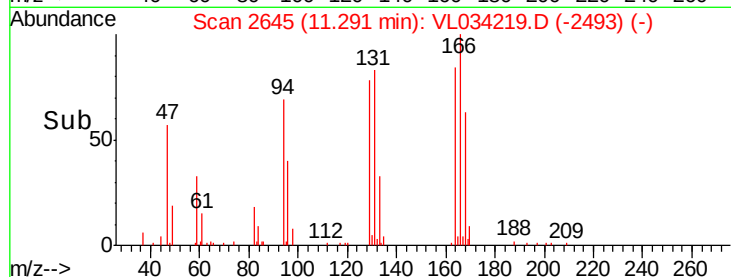
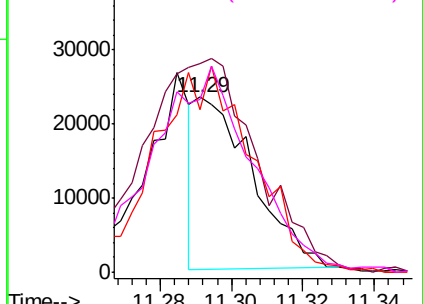


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.433 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.02 min

Lab File: VL034219.D

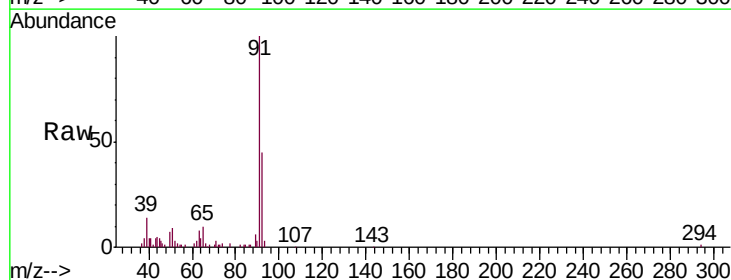
Acq: 2 Oct 2019 20:29

Tgt Ion: 91 Resp: 83460

Ion Ratio Lower Upper

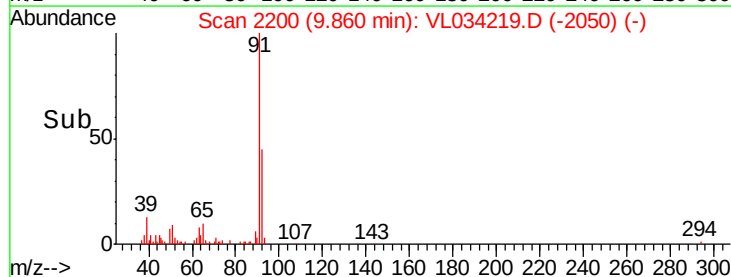
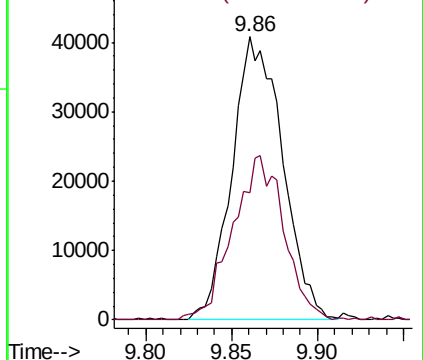
91 100

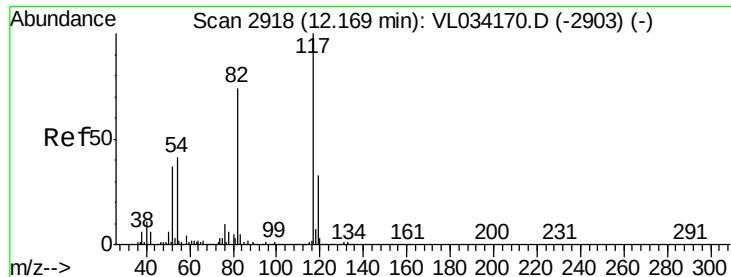
92 58.7 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

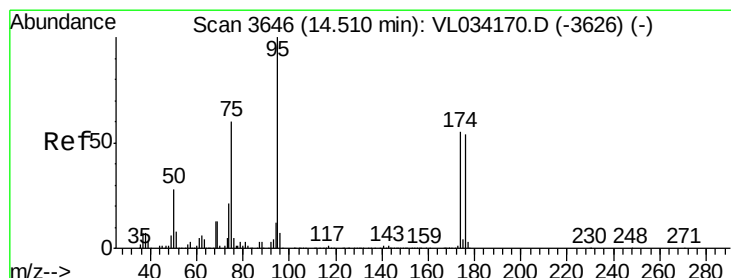
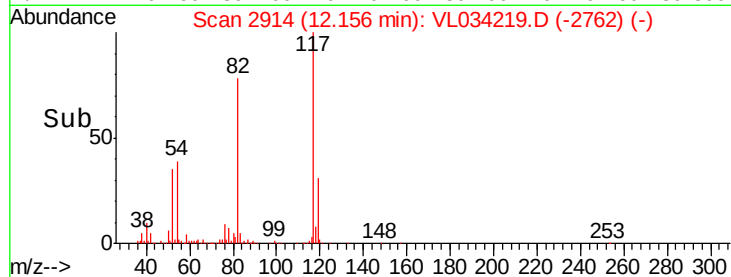
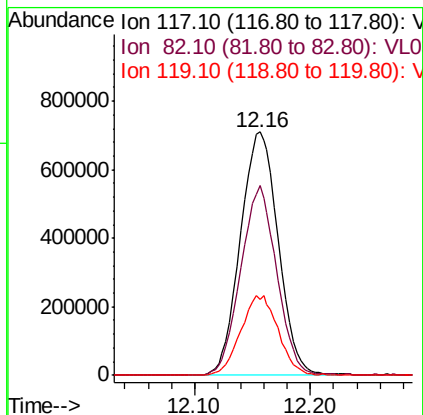
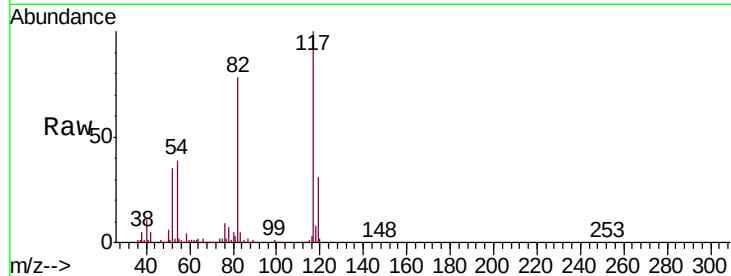




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.01 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

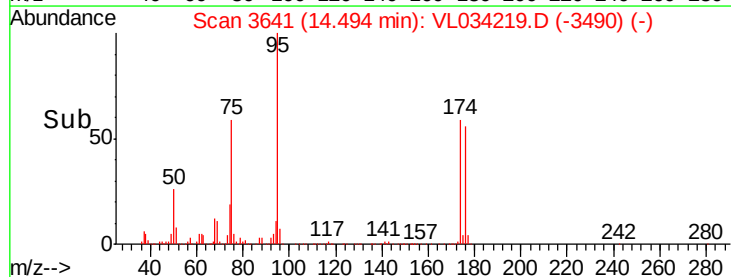
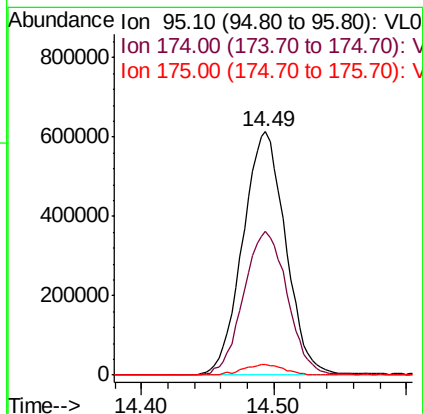
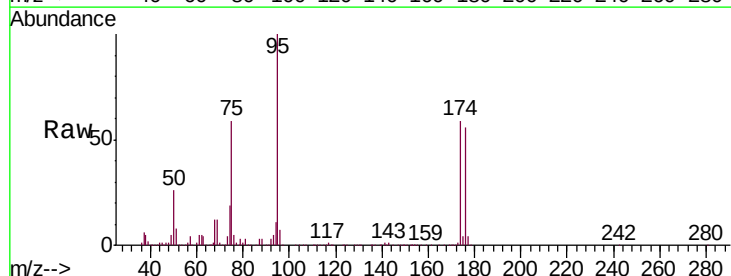
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

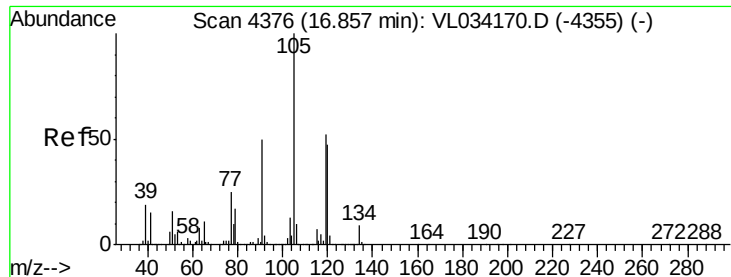
Tgt Ion: 117 Resp: 1610228
Ion Ratio Lower Upper
117 100
82 74.1 58.2 87.4
119 32.6 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.833 ppbv
RT: 14.49 min Scan# 3641
Delta R.T. -0.02 min
Lab File: VL034219.D
Acq: 2 Oct 2019 20:29

Tgt Ion: 95 Resp: 1375815
Ion Ratio Lower Upper
95 100
174 60.9 45.1 67.7
175 4.3 3.3 4.9





#74

1,2,4-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. -0.02 min

Lab File: VL034219.D

Acq: 2 Oct 2019 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tgt Ion:	105	Resp:	10636
Ion Ratio	Lower	Upper	
105	100		
120	21.0	37.5	56.3#
91	7.6	41.1	61.7#
77	18.0	19.9	29.9#

