

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092418\
 Data File : VL032537.D
 Acq On : 25 Sep 2018 9:35
 Operator : SY/AP
 Sample : J5034-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018DL

Quant Time: Sep 25 12:17:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1546465	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3307456	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3289675	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2517270	10.15	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

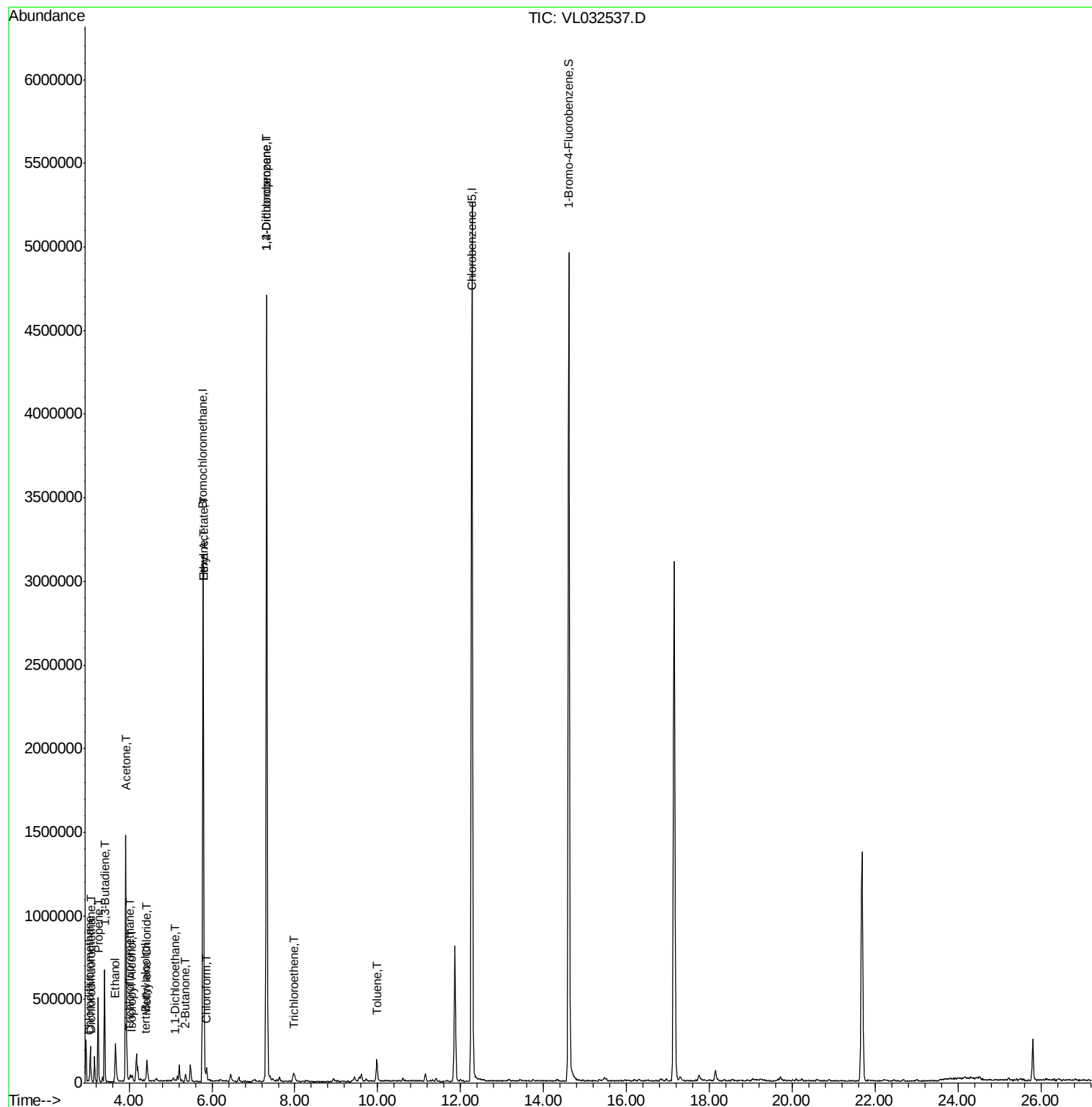
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	8833	0.062	ppbv	91
3) Chlorodifluoromethane	3.03	51	11623	0.090	ppbv #	90
9) Propene	3.26	41	135352	2.426	ppbv	97
11) Trichlorofluoromethane	4.03	101	20973	0.123	ppbv	89
13) Ethanol	3.67	45	266756	15.905	ppbv	97
15) Acetone	3.92	43	1484457	10.936	ppbv	99
16) 1,3-Butadiene	3.41	39	75262	1.367	ppbv #	2
17) tert-Butyl alcohol	4.39	59	3912	0.229	ppbv #	100
19) Isopropyl Alcohol	4.06	45	24291	0.257	ppbv #	93
20) Methylene Chloride	4.43	84	22992	0.350	ppbv	92
24) 1,1-Dichloroethane	5.12	63	6792	0.034	ppbv #	86
25) Ethyl Acetate	5.80	43	82144	0.249	ppbv #	85
26) Hexane	5.80	57	53689	0.361	ppbv #	46
29) Chloroform	5.87	83	46060	0.202	ppbv	99
34) 2-Butanone	5.36	43	49486	0.251	ppbv	97
38) Trichloroethene	7.99	130	6794	0.066	ppbv	92
39) 1,2-Dichloropropane	7.32	63	900780	7.478	ppbv #	25
53) Toluene	9.98	91	91469	0.281	ppbv	98

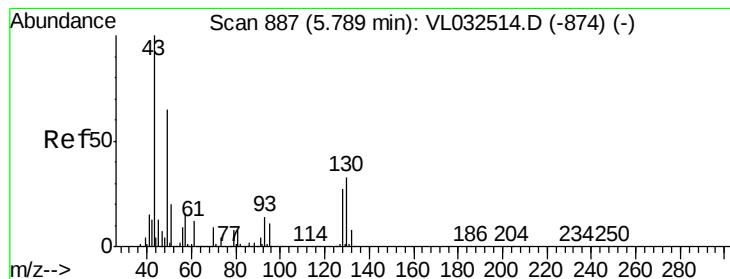
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032537.D

Acq: 25 Sep 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-092018DL

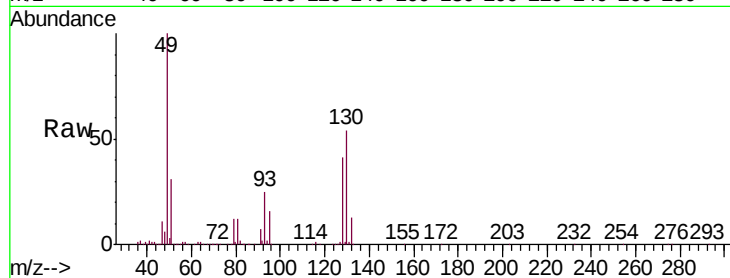
Tgt Ion: 49 Resp: 1546465

Ion Ratio Lower Upper

49 100

128 42.5 20.7 62.1

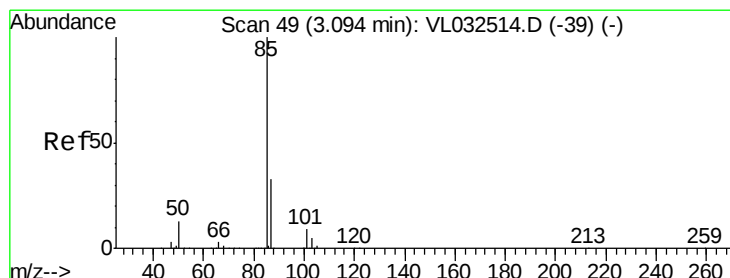
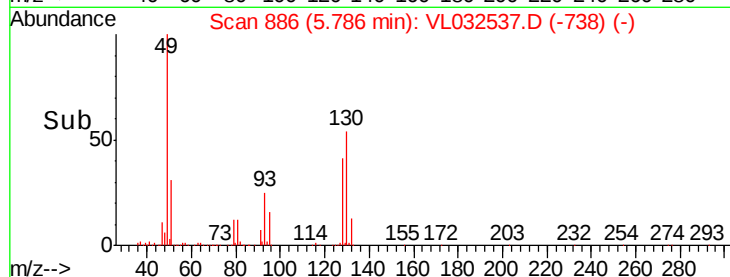
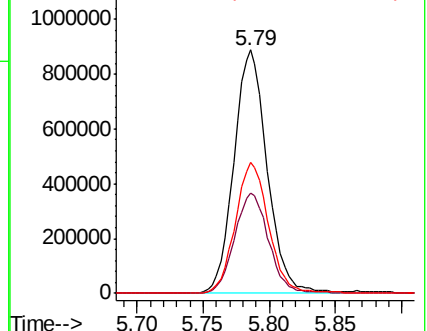
130 54.4 26.6 79.7



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: 0.062 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032537.D

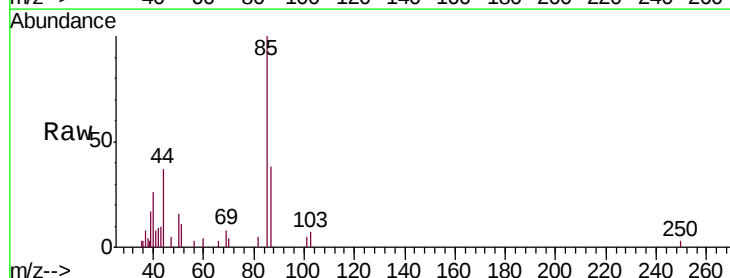
Acq: 25 Sep 2018 9:35

Tgt Ion: 85 Resp: 8833

Ion Ratio Lower Upper

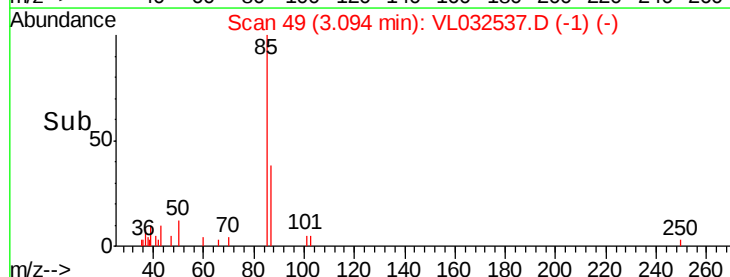
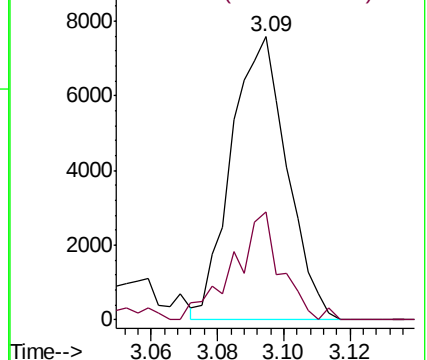
85 100

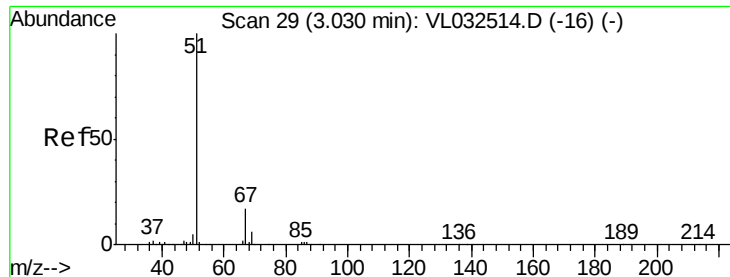
87 38.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.090 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032537.D

Acq: 25 Sep 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

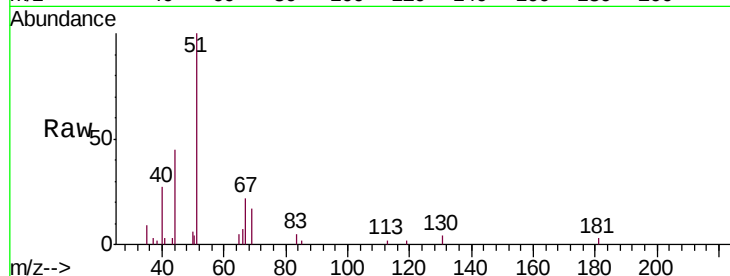
SSDS-INF-092018DL

Tgt Ion: 51 Resp: 11623

Ion Ratio Lower Upper

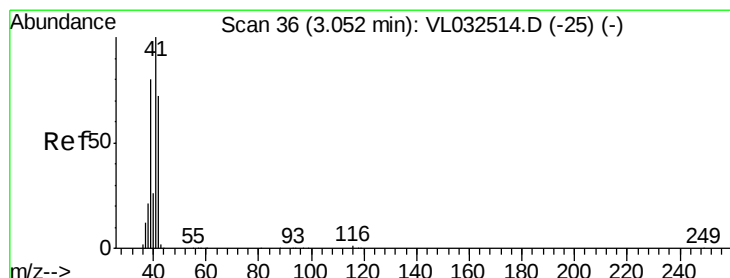
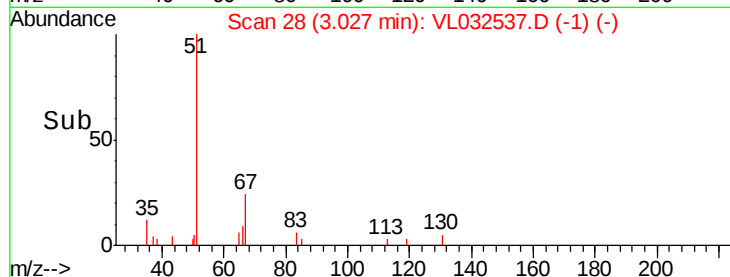
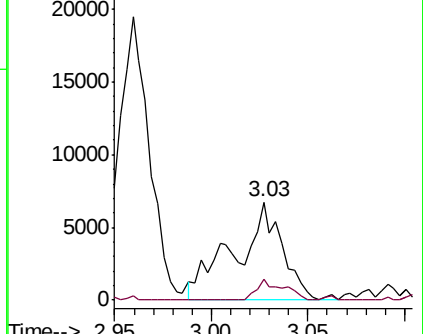
51 100

67 12.9 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 2.426 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032537.D

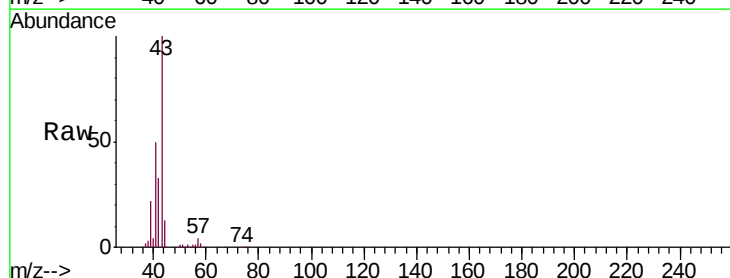
Acq: 25 Sep 2018 9:35

Tgt Ion: 41 Resp: 135352

Ion Ratio Lower Upper

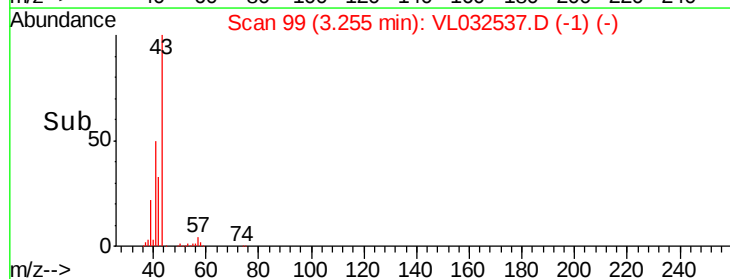
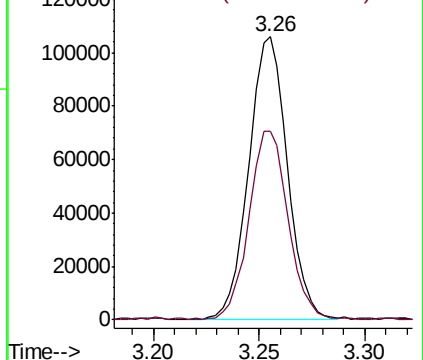
41 100

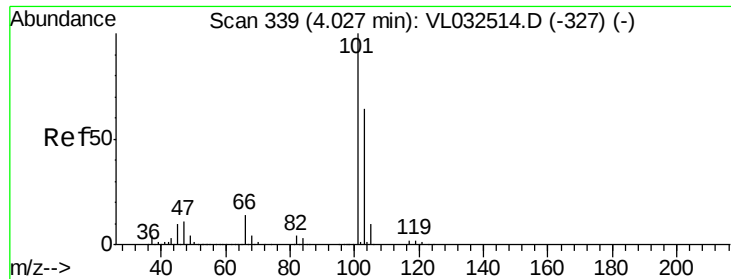
42 68.0 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

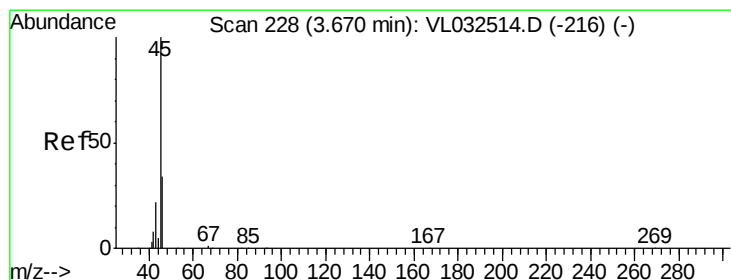
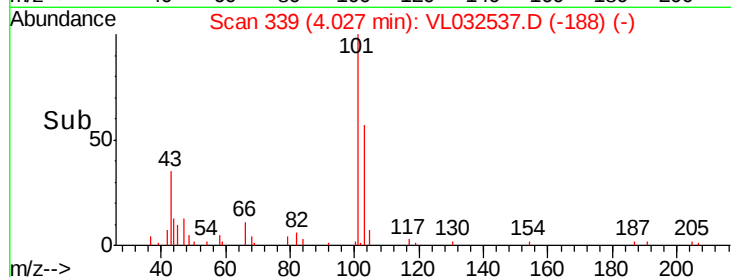
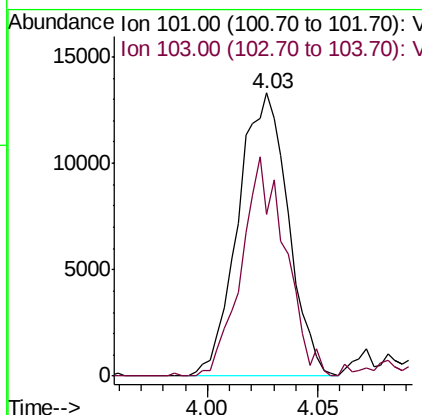
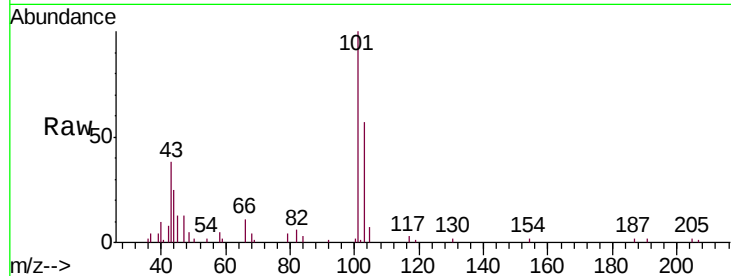




#11
 Trichlorofluoromethane
 Concen: 0.123 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

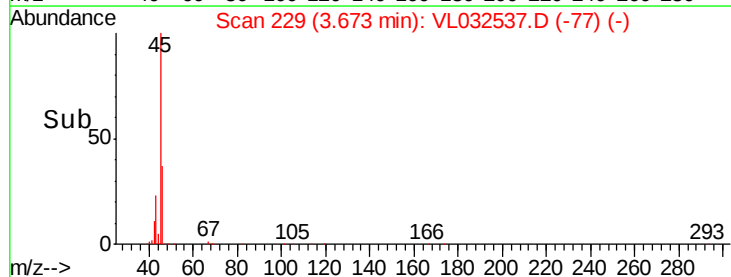
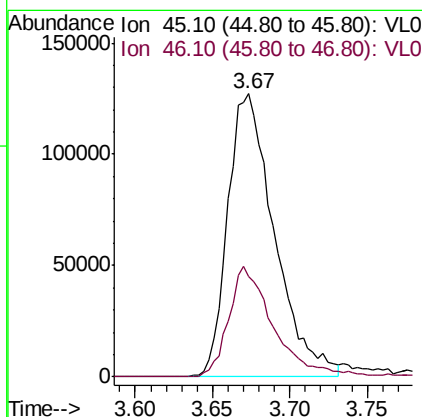
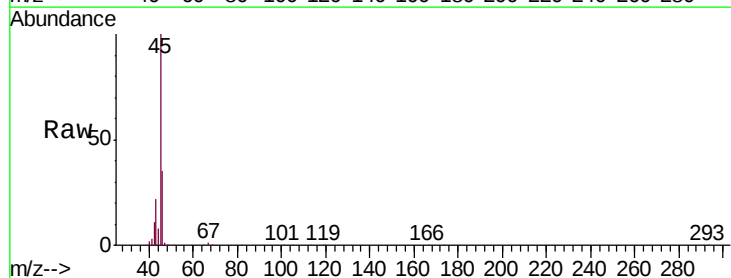
Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018DL

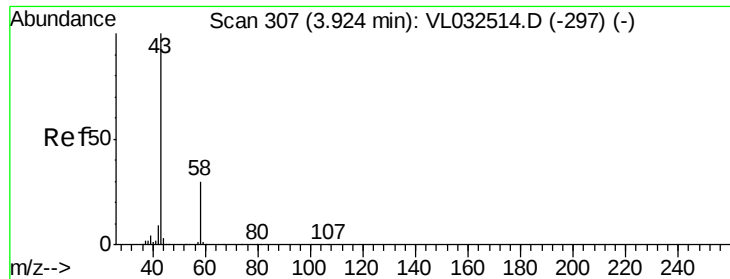
Tgt Ion: 101 Resp: 20973
 Ion Ratio Lower Upper
 101 100
 103 57.2 52.8 79.2



#13
 Ethanol
 Concen: 15.905 ppbv
 RT: 3.67 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

Tgt Ion: 45 Resp: 266756
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.2 56.8





#15

Acetone

Concen: 10.936 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032537.D

Acq: 25 Sep 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

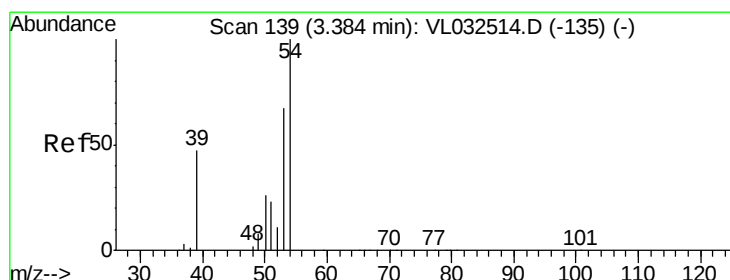
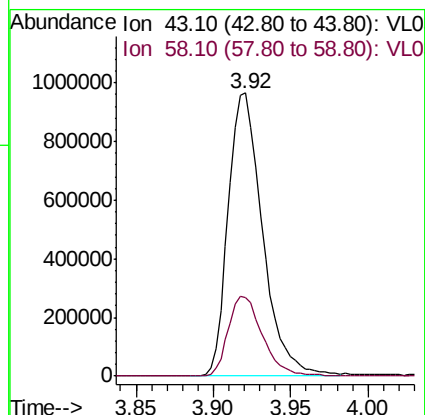
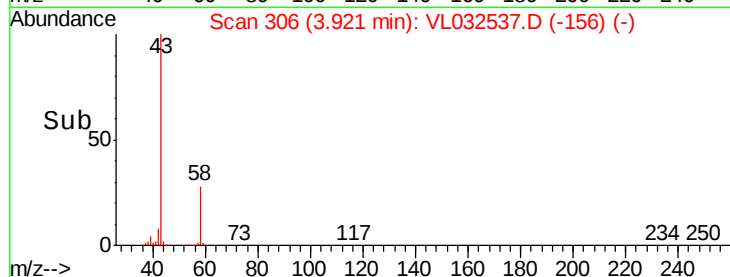
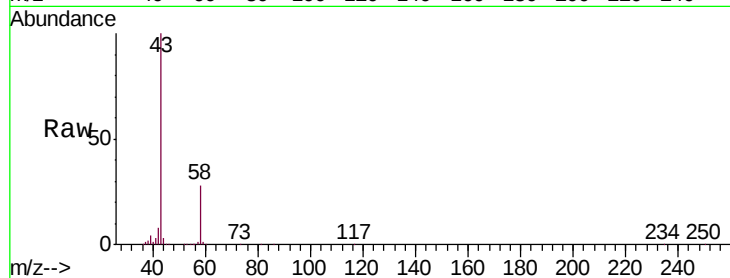
SSDS-INF-092018DL

Tgt Ion: 43 Resp: 1484457

Ion Ratio Lower Upper

43 100

58 28.5 22.6 33.8



#16

1,3-Butadiene

Concen: 1.367 ppbv

RT: 3.41 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL032537.D

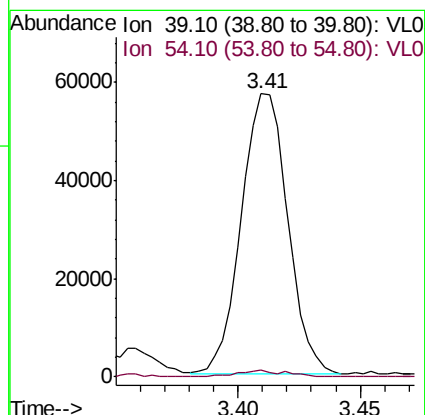
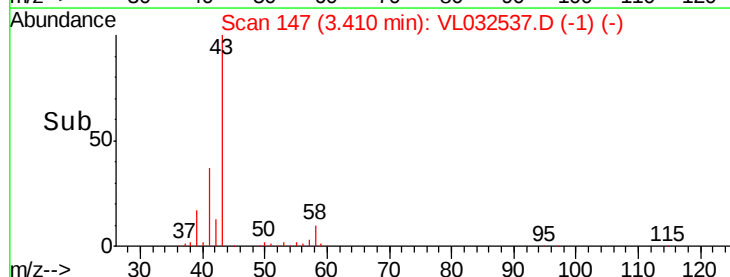
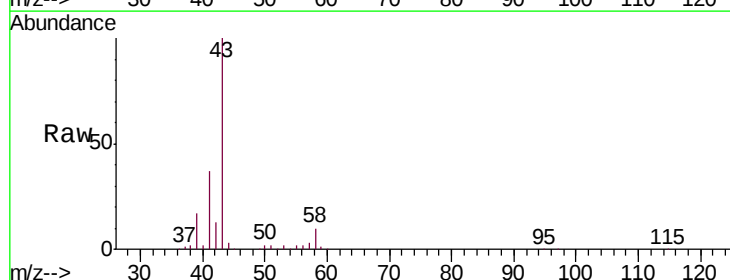
Acq: 25 Sep 2018 9:35

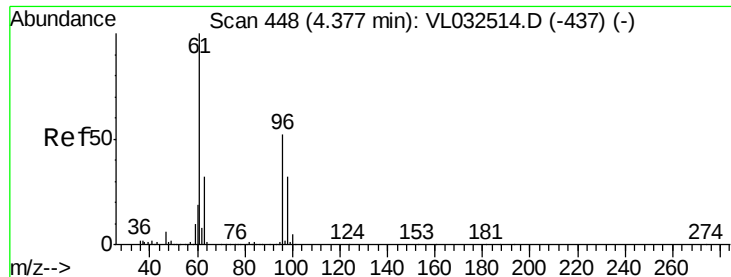
Tgt Ion: 39 Resp: 75262

Ion Ratio Lower Upper

39 100

54 2.6 80.8 121.2#

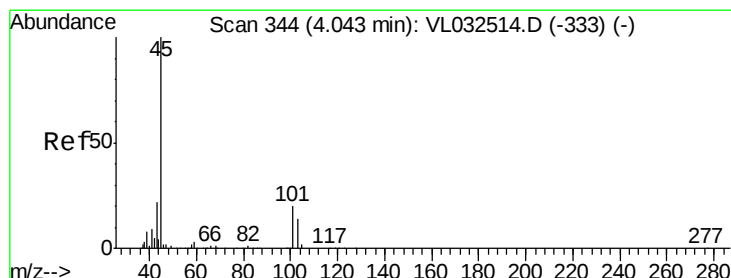
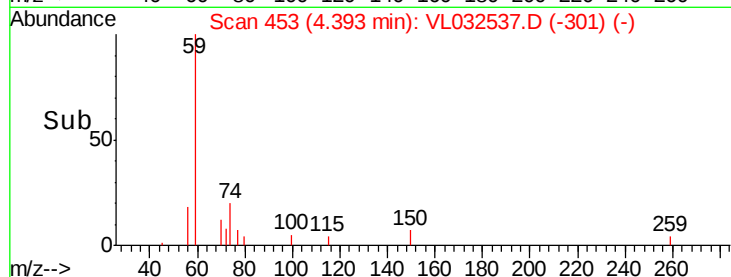
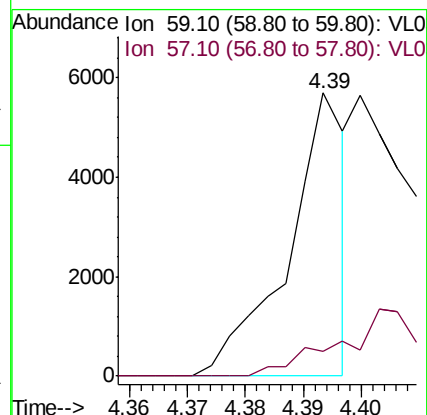
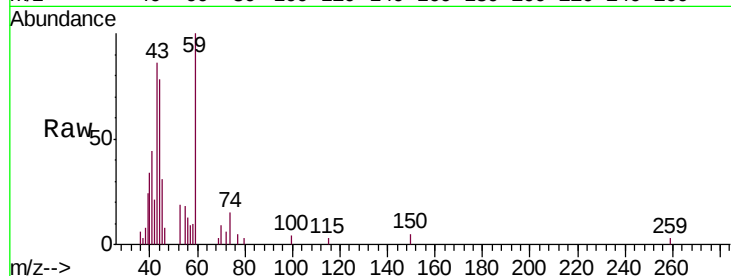




#17
 tert-Butyl alcohol
 Concen: 0.229 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

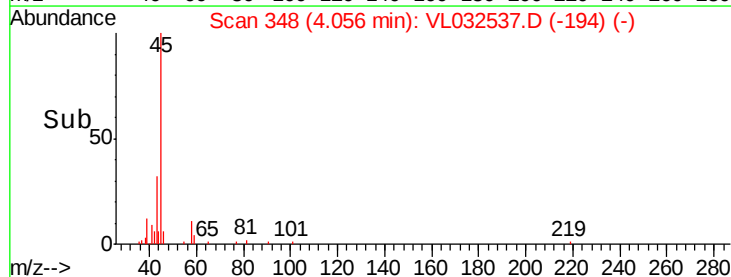
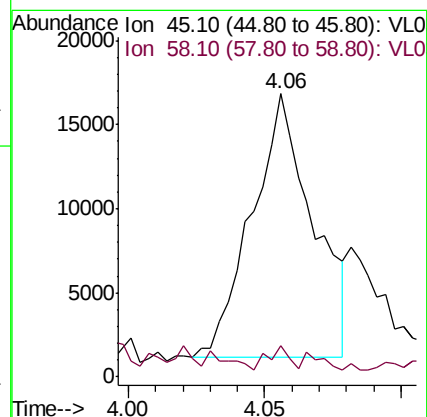
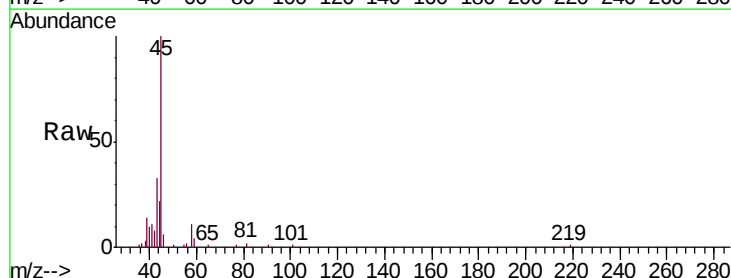
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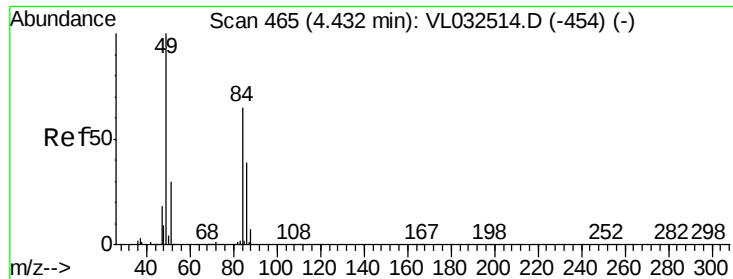
Tgt Ion: 59 Resp: 3912
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0



#19
 Isopropyl Alcohol
 Concen: 0.257 ppbv
 RT: 4.06 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

Tgt Ion: 45 Resp: 24291
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

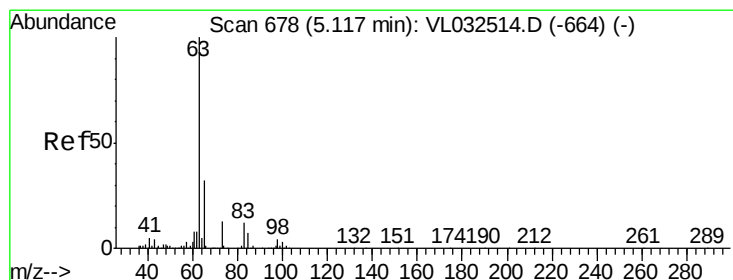
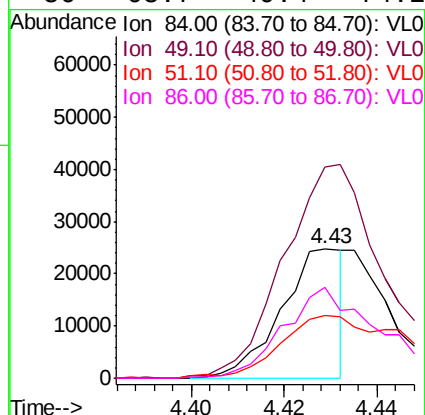
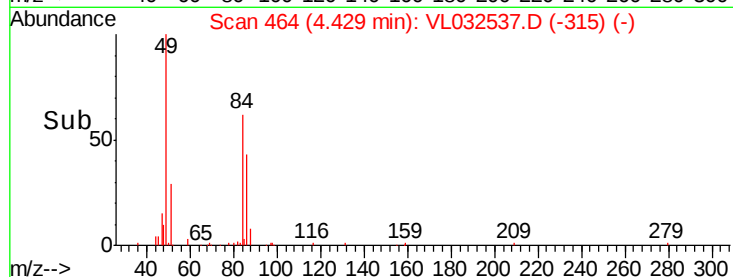
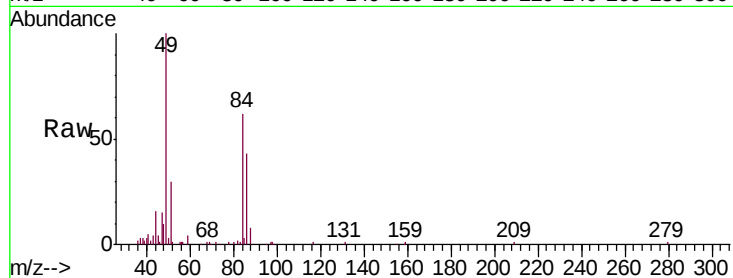




#20
Methylene Chloride
Concen: 0.350 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

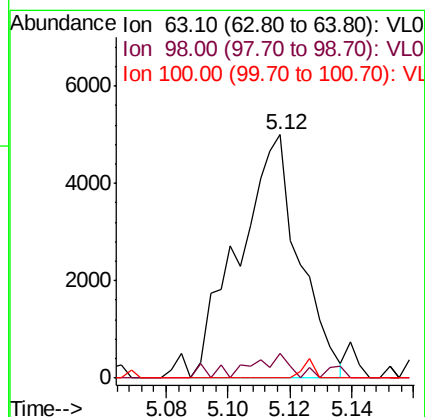
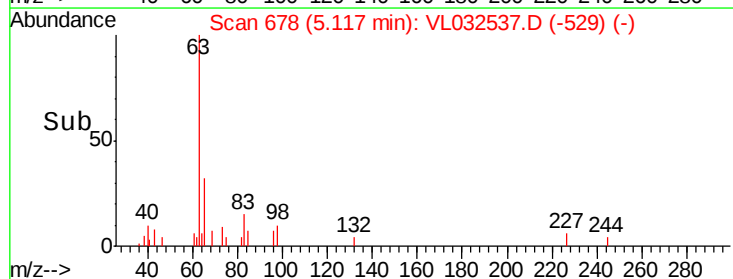
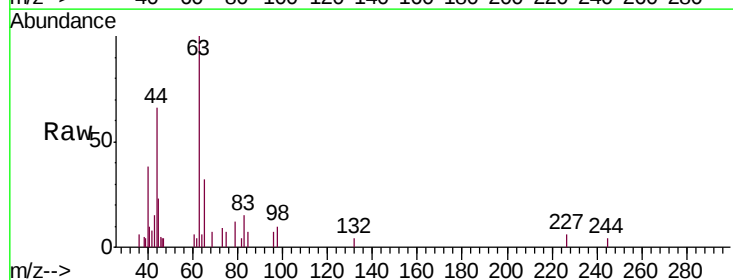
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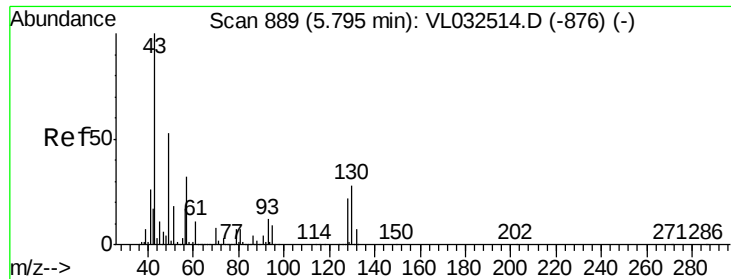
Tgt Ion:	84	Resp:	22992
Ion	Ratio	Lower	Upper
84	100		
49	160.1	119.1	178.7
51	45.6	35.2	52.8
86	68.7	49.4	74.2



#24
1,1-Dichloroethane
Concen: 0.034 ppbv
RT: 5.12 min Scan# 678
Delta R.T. -0.02 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

Tgt Ion:	63	Resp:	6792
Ion	Ratio	Lower	Upper
63	100		
98	10.2	2.1	6.5#
100	0.0	1.5	4.4#

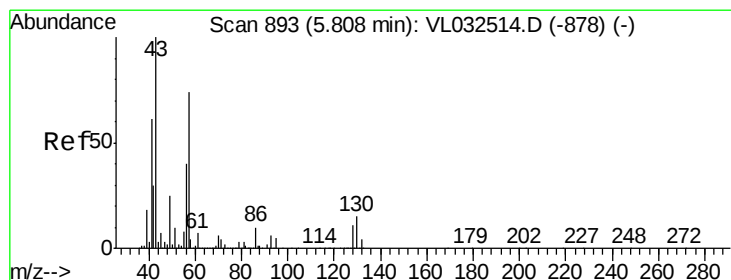
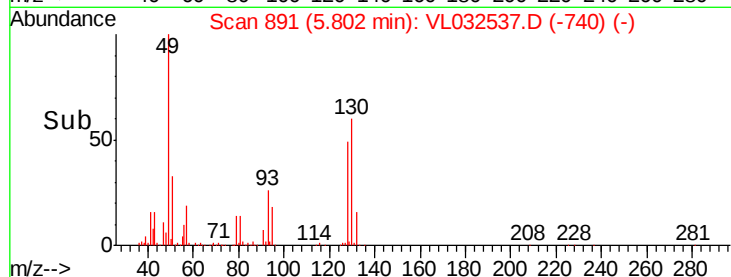
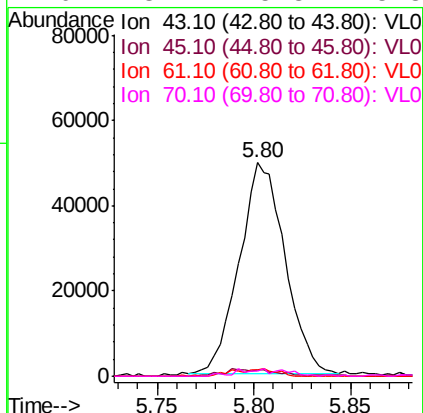
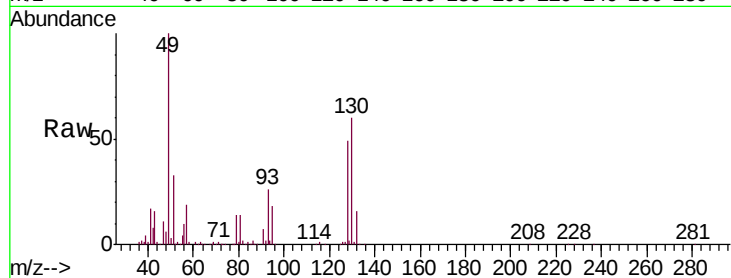




#25
Ethyl Acetate
Concen: 0.249 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

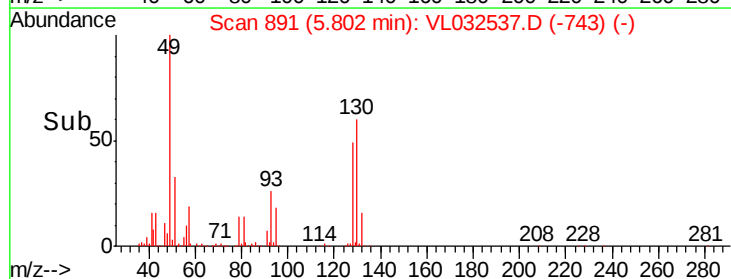
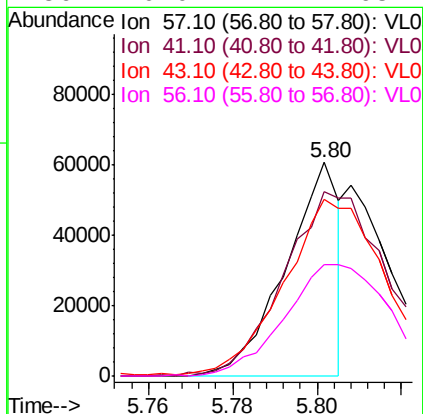
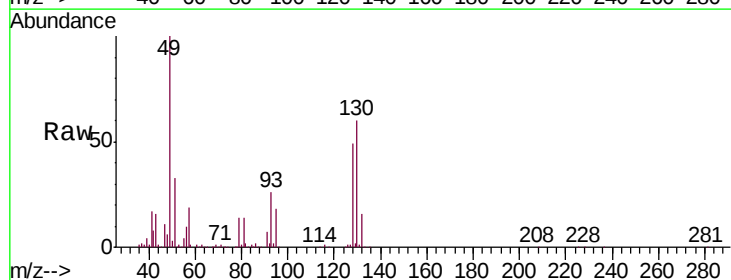
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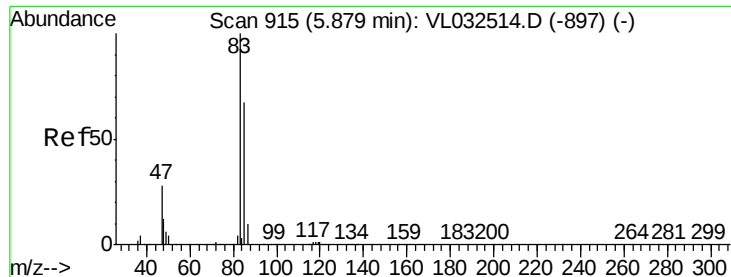
Tgt Ion:	43	Resp:	82144
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.0	12.0#
61	3.2	7.6	11.4#
70	3.7	5.8	8.8#



#26
Hexane
Concen: 0.361 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

Tgt Ion:	57	Resp:	53689
Ion	Ratio	Lower	Upper
57	100		
41	167.6	69.0	103.4#
43	160.6	172.1	258.1#
56	0.0	42.2	63.2#





#29

Chloroform

Concen: 0.202 ppbv

RT: 5.87 min Scan# 912

Delta R.T. -0.03 min

Lab File: VL032537.D

Acq: 25 Sep 2018 9:35

Instrument :

MSVOA_L

ClientSampleId :

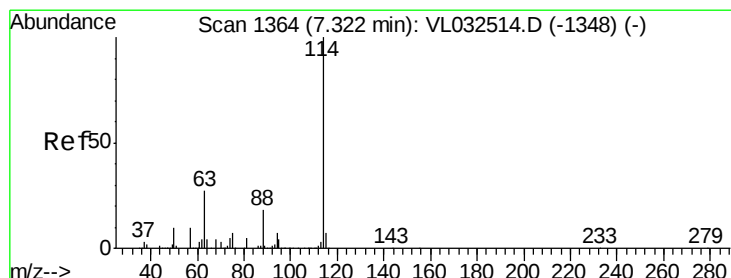
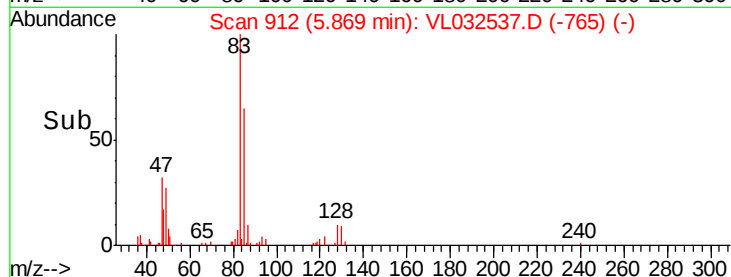
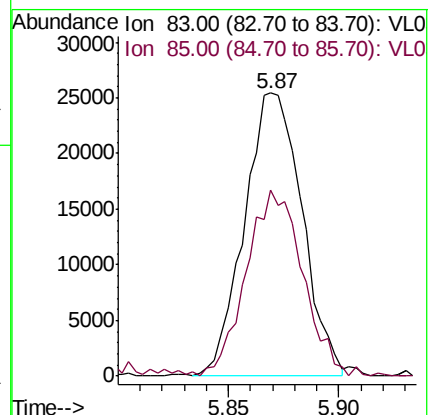
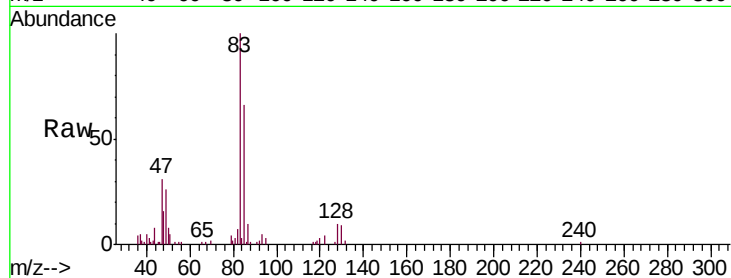
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Tgt Ion: 83 Resp: 46060

Ion Ratio Lower Upper

83 100

85 64.5 52.5 78.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL032537.D

Acq: 25 Sep 2018 9:35

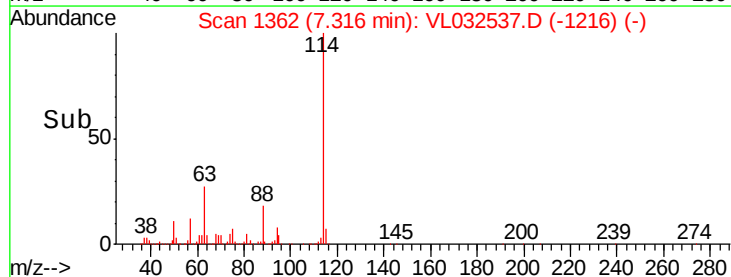
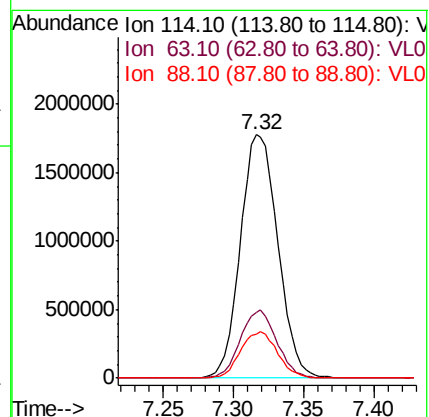
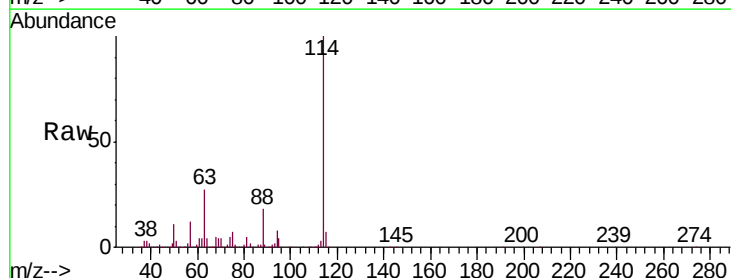
Tgt Ion: 114 Resp: 3307456

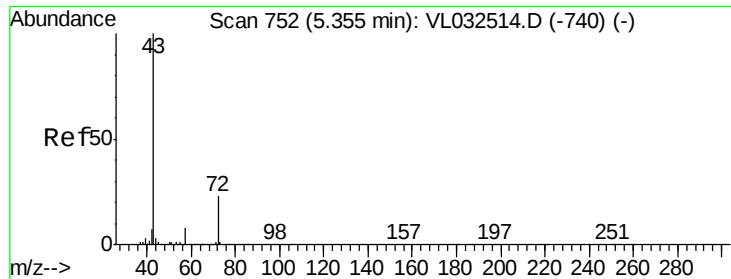
Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.4

88 18.8 15.0 22.4

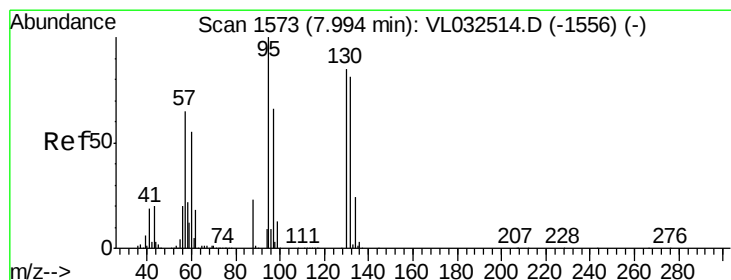
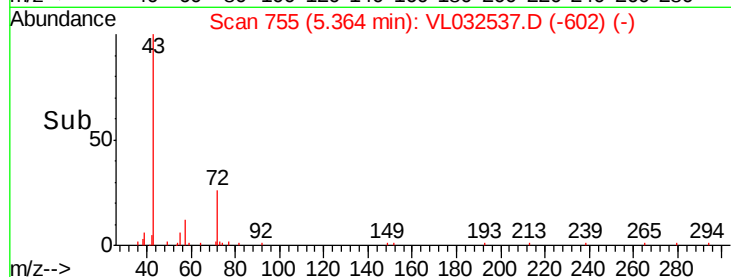
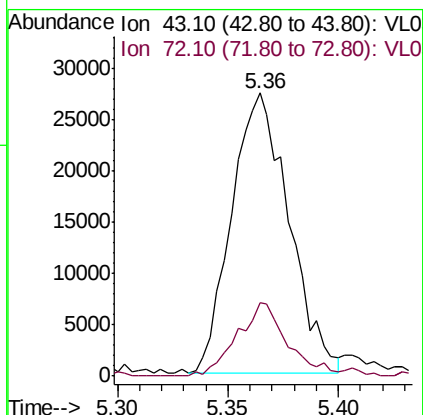
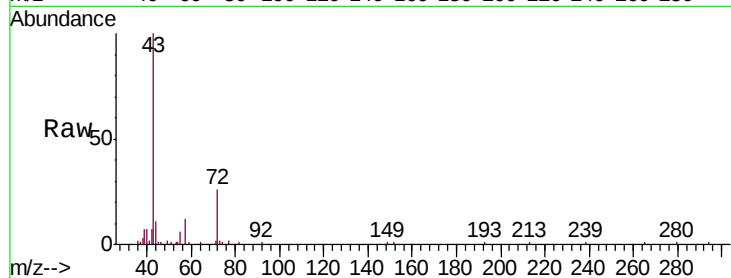




#34
 2-Butanone
 Concen: 0.251 ppbv
 RT: 5.36 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

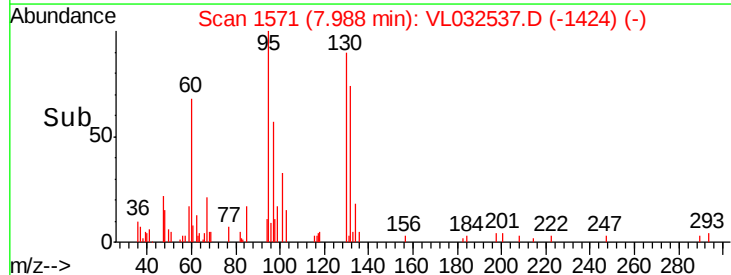
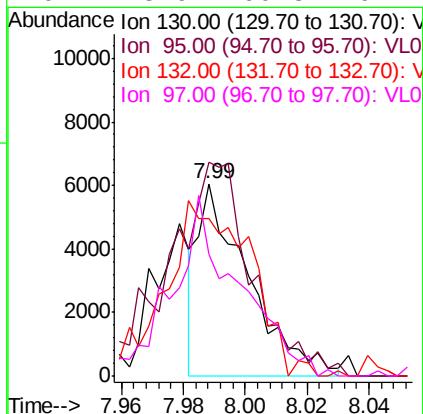
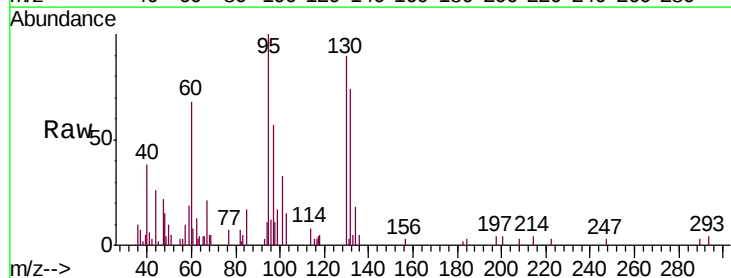
Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018DL

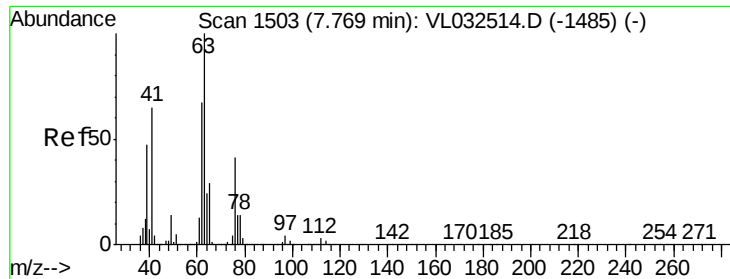
Tgt Ion: 43 Resp: 49486
 Ion Ratio Lower Upper
 43 100
 72 23.8 17.8 26.6



#38
 Trichloroethene
 Concen: 0.066 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.03 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

Tgt Ion: 130 Resp: 6794
 Ion Ratio Lower Upper
 130 100
 95 109.1 94.2 141.4
 132 82.9 76.2 114.4
 97 78.9 60.8 91.2

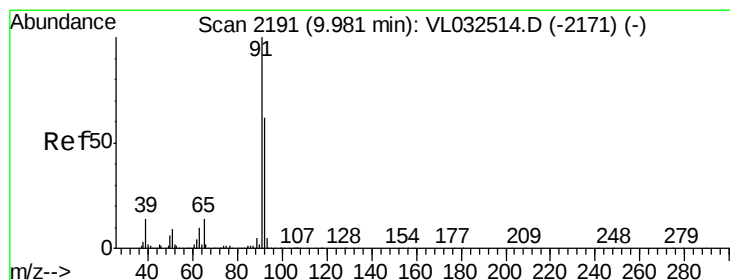
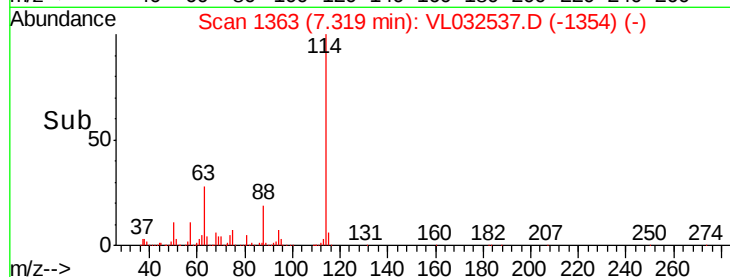
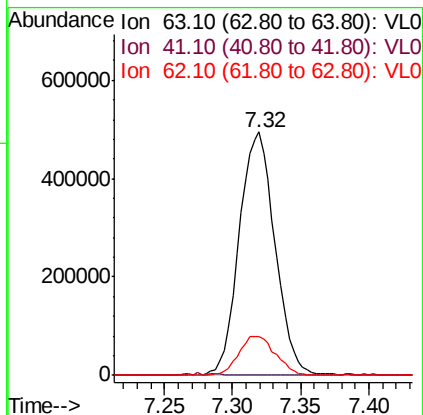
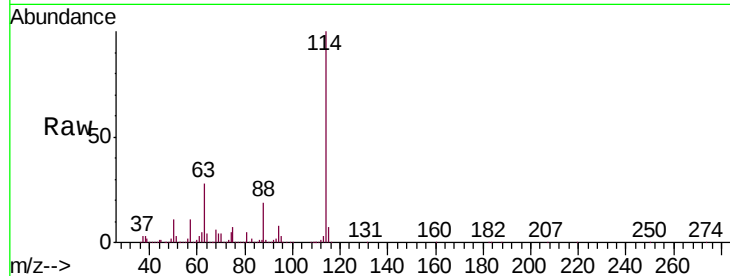




#39
 1,2-Dichloropropane
 Concen: 7.478 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

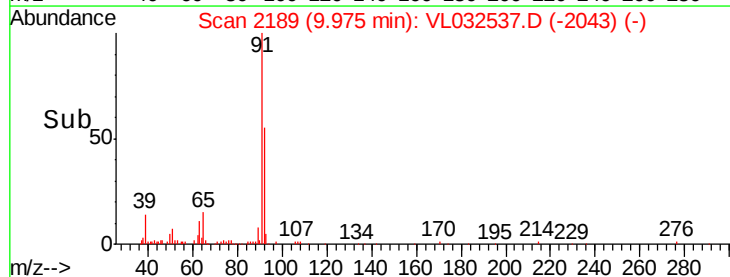
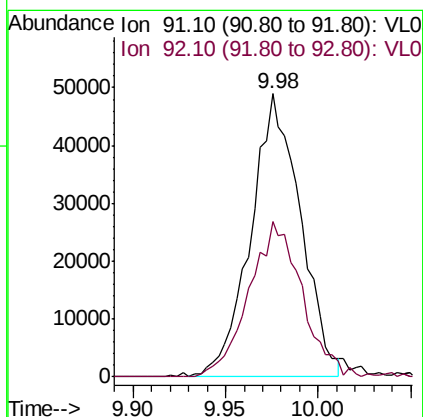
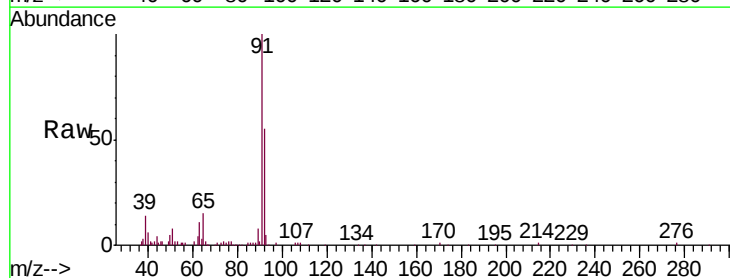
Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018DL

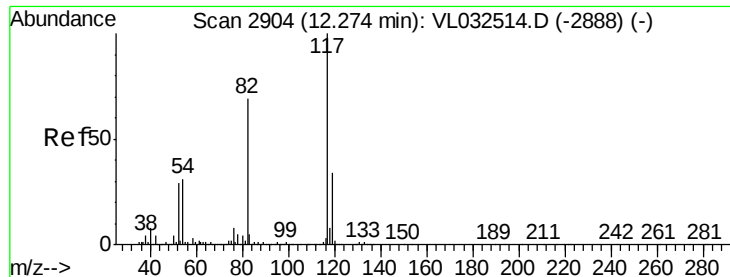
Tgt Ion: 63 Resp: 900780
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 16.2 55.4 83.0#



#53
 Toluene
 Concen: 0.281 ppbv
 RT: 9.98 min Scan# 2189
 Delta R.T. -0.03 min
 Lab File: VL032537.D
 Acq: 25 Sep 2018 9:35

Tgt Ion: 91 Resp: 91469
 Ion Ratio Lower Upper
 91 100
 92 58.9 48.1 72.1

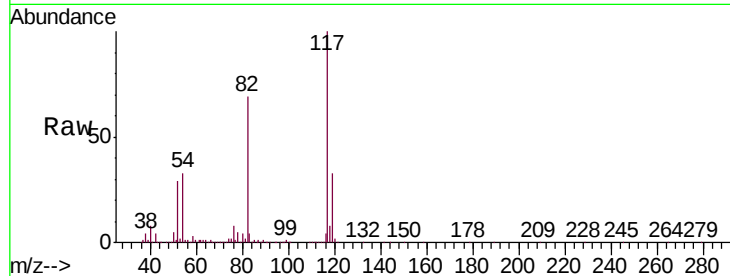




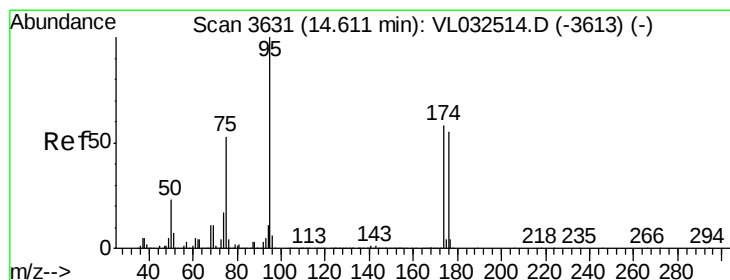
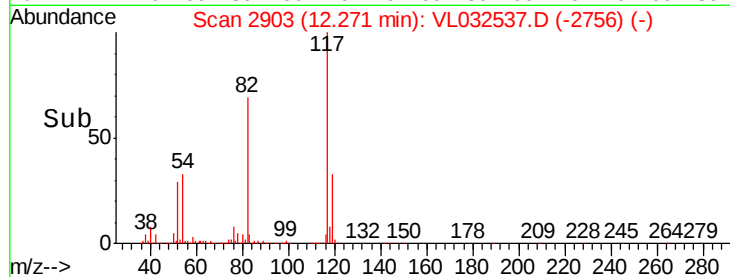
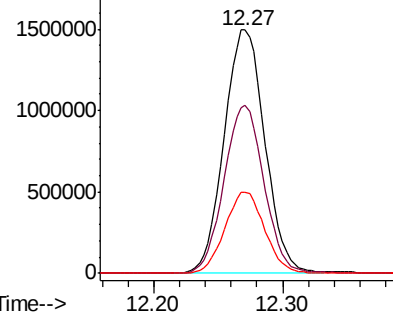
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018DL

Tgt Ion: 117 Resp: 3289675
Ion Ratio Lower Upper
117 100
82 68.2 53.0 79.6
119 32.9 45.9 68.9#

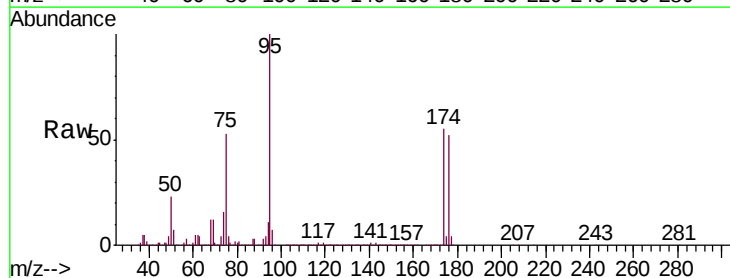


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.147 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032537.D
Acq: 25 Sep 2018 9:35

Tgt Ion: 95 Resp: 2517270
Ion Ratio Lower Upper
95 100
174 57.4 46.3 69.5
175 3.9 3.4 5.0



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

