

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032543.D
 Acq On : 25 Sep 2018 13:34
 Operator : SY/AP
 Sample : J5034-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF1-092018DL

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Quant Time: Sep 25 15:53:41 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 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	1450510	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3176199	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3253702	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2527526	10.30	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	24506	0.203	ppbv	97
4) Chloromethane	3.19	50	21441	0.305	ppbv	92
5) Vinyl Chloride	3.31	62	22234	0.313	ppbv	92
7) Chloroethane	3.62	64	36074	1.425	ppbv	94
9) Propene	3.05	41	14630	0.280	ppbv	98
11) Trichlorofluoromethane	4.02	101	18654	0.117	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.58	101	229605	1.761	ppbv	99
13) Ethanol	3.68	45	11171m	0.710	ppbv	
15) Acetone	3.93	43	179831	1.412	ppbv	99
17) tert-Butyl alcohol	4.41	59	21162m	1.323	ppbv	
20) Methylene Chloride	4.43	84	114374	1.855	ppbv	98
24) 1,1-Dichloroethane	5.11	63	2297712	12.264	ppbv	99
26) Hexane	5.81	57	32133m	0.230	ppbv	
31) cis-1,2-Dichloroethene	5.66	61	1019096	7.668	ppbv	100
32) 1,1,1-Trichloroethane	6.64	97	2460470	10.783	ppbv	97
34) 2-Butanone	5.37	43	23468	0.124	ppbv	92
36) Benzene	7.04	78	63656	0.248	ppbv #	93
38) Trichloroethene	7.99	130	1618296	16.471	ppbv	98
52) Tetrachloroethene	11.40	164	64674	0.724	ppbv	97
53) Toluene	9.98	91	39908m	0.128	ppbv	

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

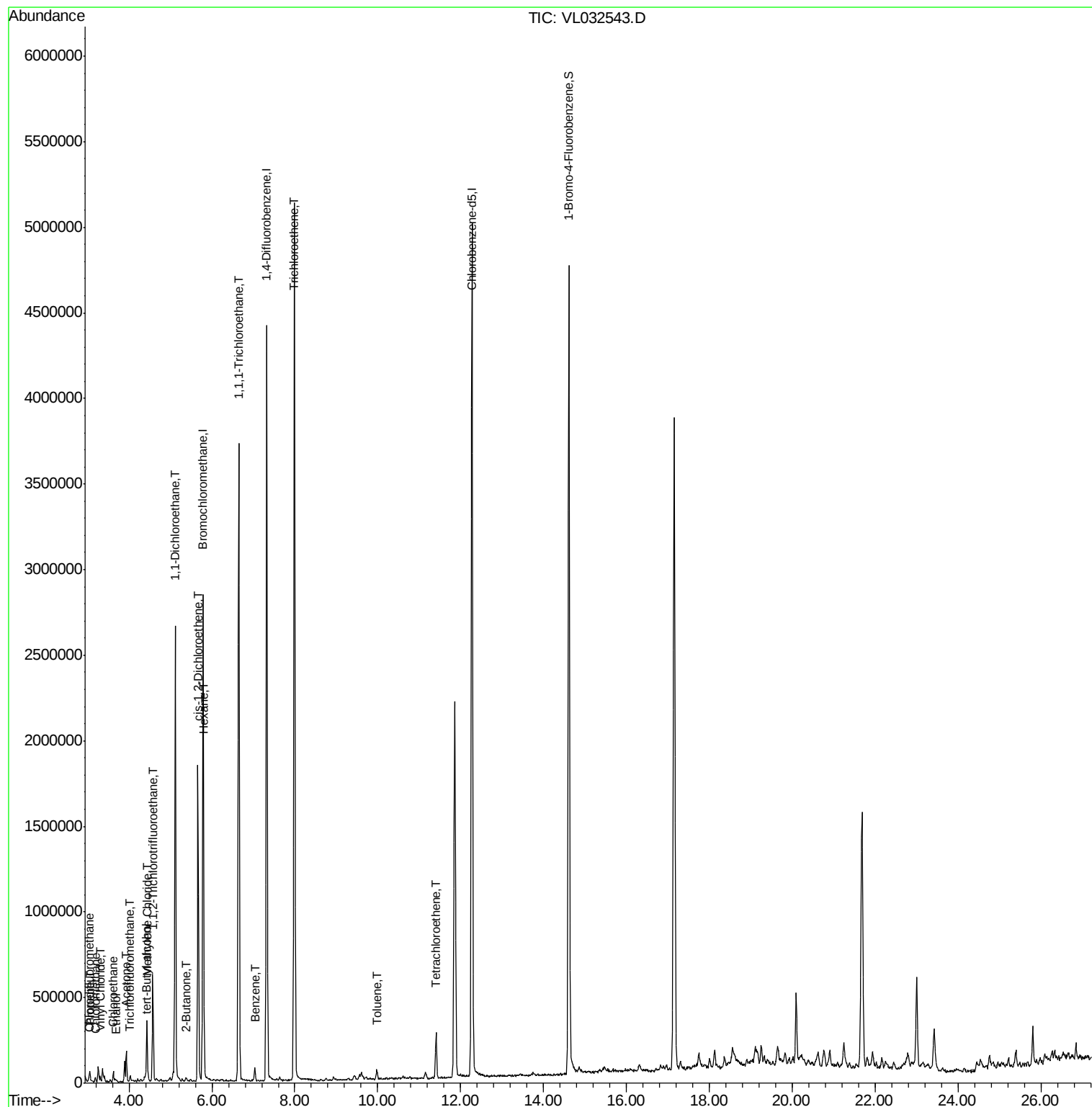
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\
Data File : VL032543.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

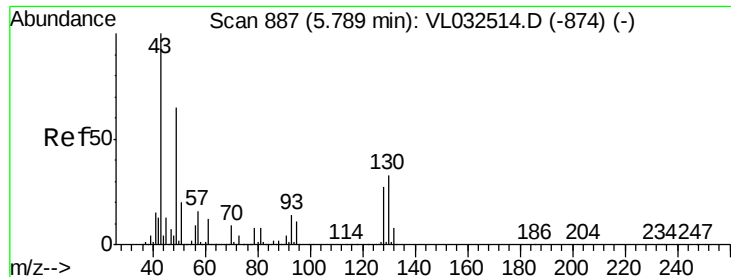
Instrument :
MSVOA_L
ClientSampleId :
SVE-INF1-092018DL

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Quant Time: Sep 25 15:53:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
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: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF1-092018DL

Tot Ion: 49 Resp: 1450510

Ion Ratio Lower Upper

49 100

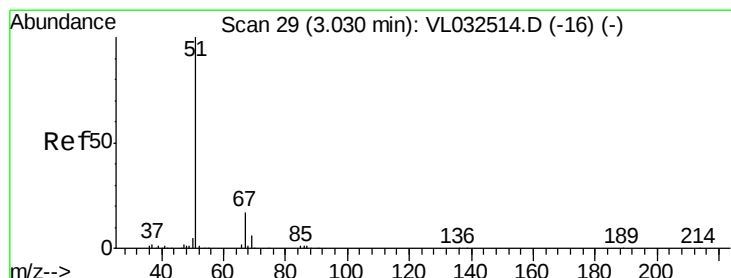
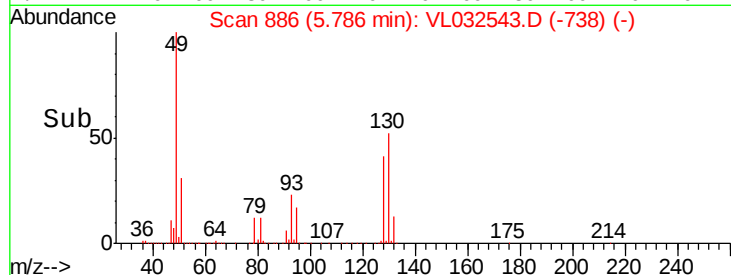
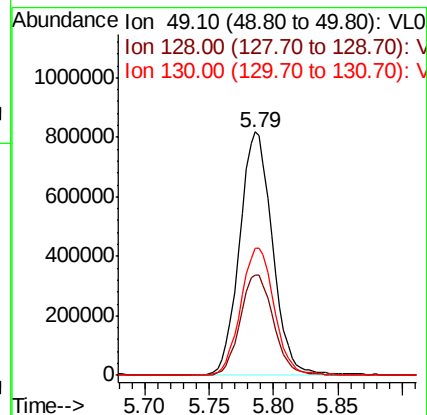
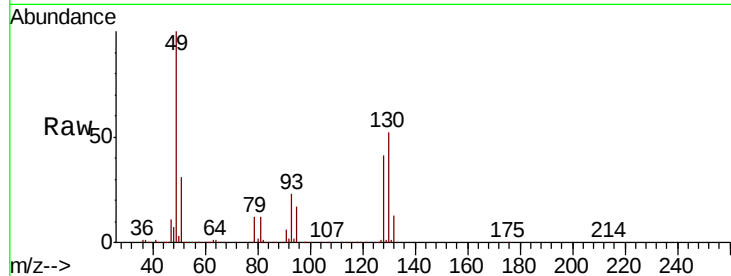
128 42.1 20.7 62.1

130 53.5 26.6 79.7

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#3

Chlorodifluoromethane

Concen: 0.203 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032543.D

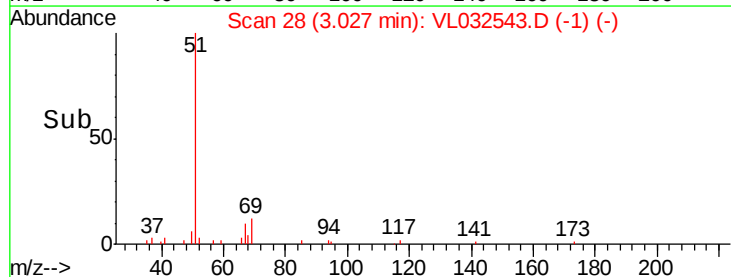
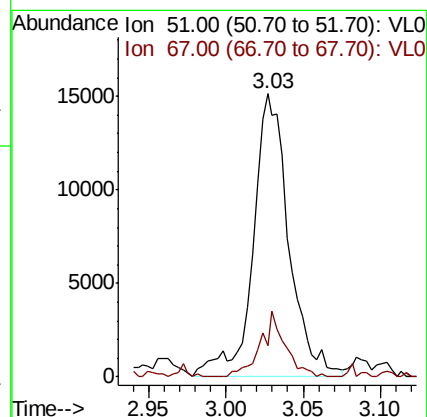
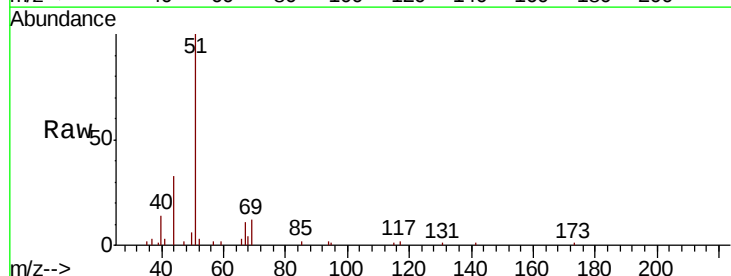
Acq: 25 Sep 2018 13:34

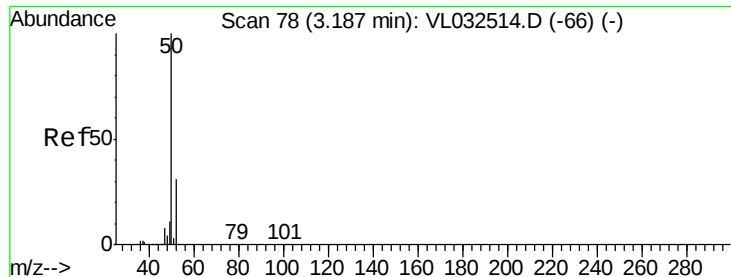
Tgt Ion: 51 Resp: 24506

Ion Ratio Lower Upper

51 100

67 16.0 13.8 20.8





#4

Chloromethane

Concen: 0.305 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF1-092018DL

Tot Ion: 50 Resp: 21441

Ion Ratio Lower Upper

50 100

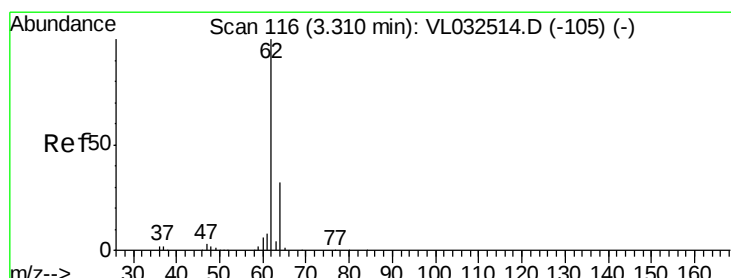
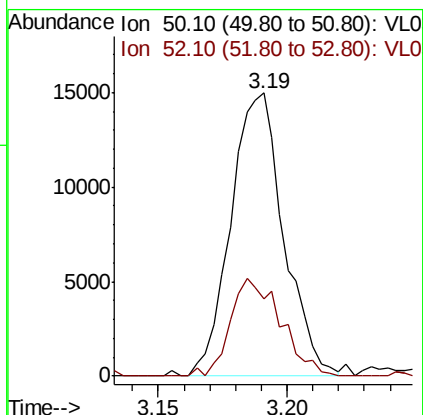
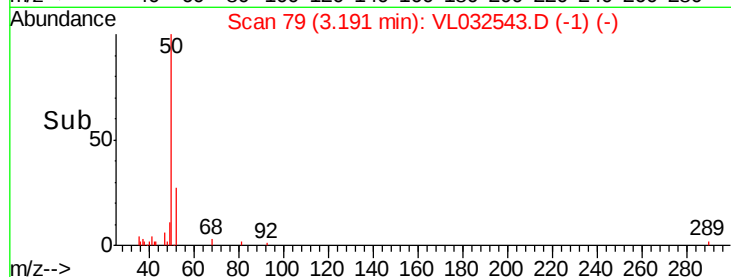
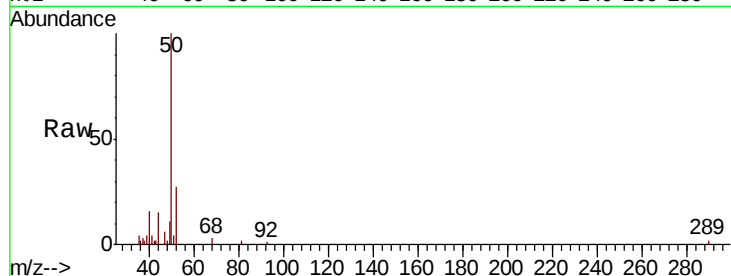
52 27.5 25.6 38.4

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#5

Vinyl Chloride

Concen: 0.313 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL032543.D

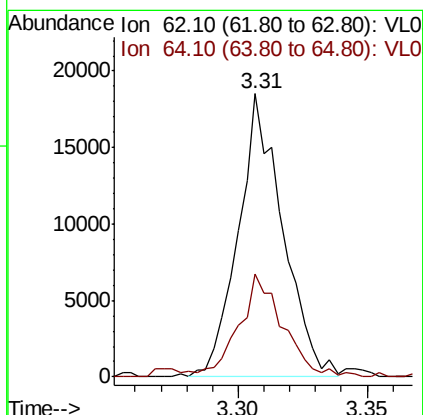
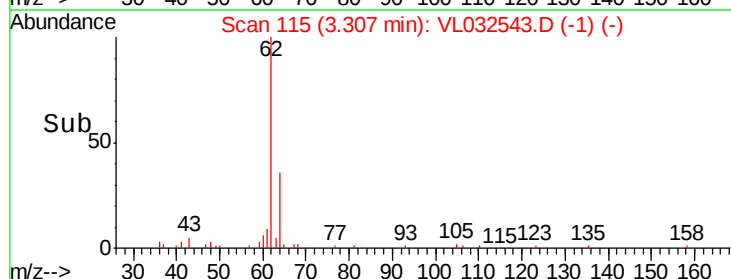
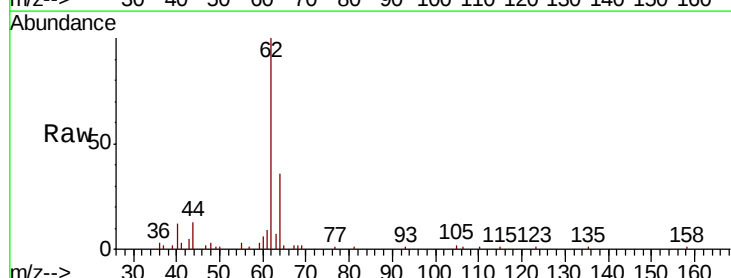
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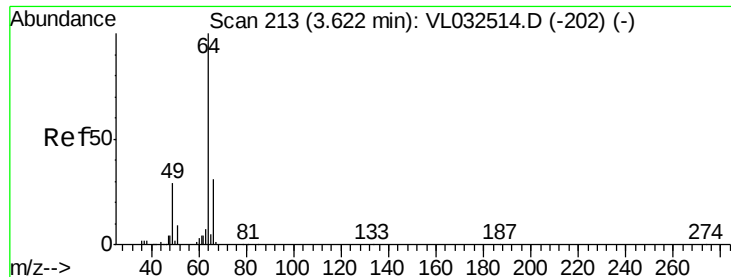
Tgt Ion: 62 Resp: 22234

Ion Ratio Lower Upper

62 100

64 35.5 25.0 37.6





#7

Chloroethane

Concen: 1.425 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF1-092018DL

Tot Ion: 64 Resp: 36074

Ion Ratio Lower Upper

64 100

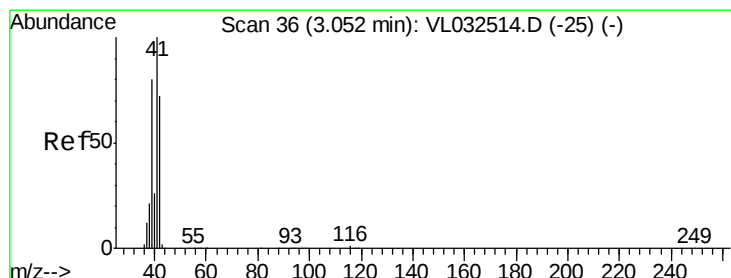
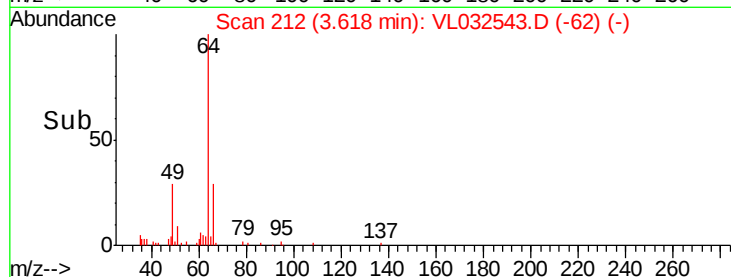
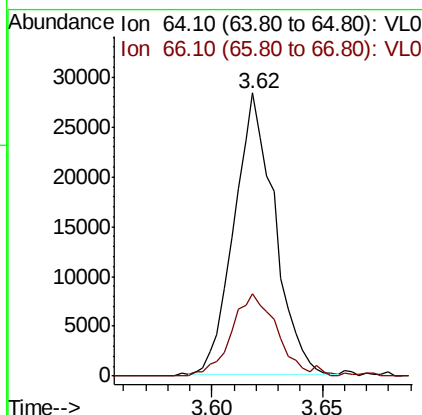
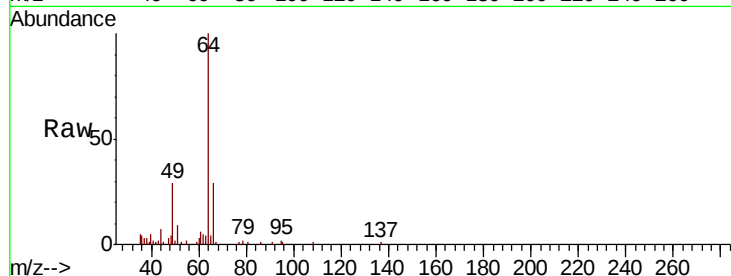
66 29.1 25.8 38.6

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#9

Propene

Concen: 0.280 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032543.D

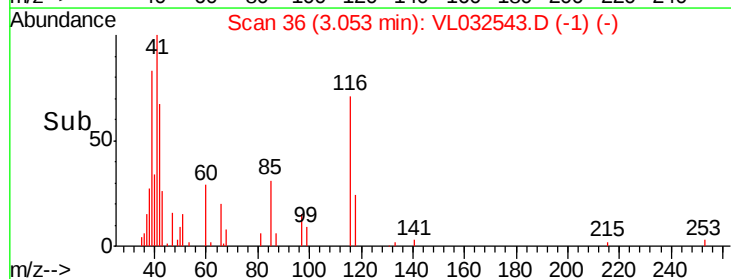
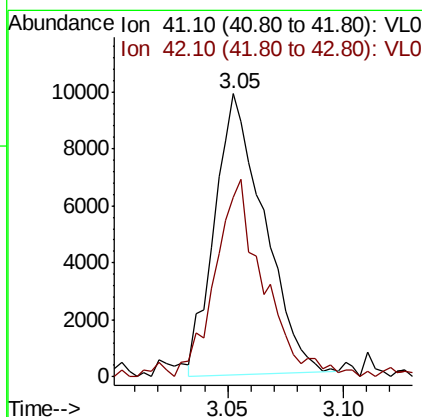
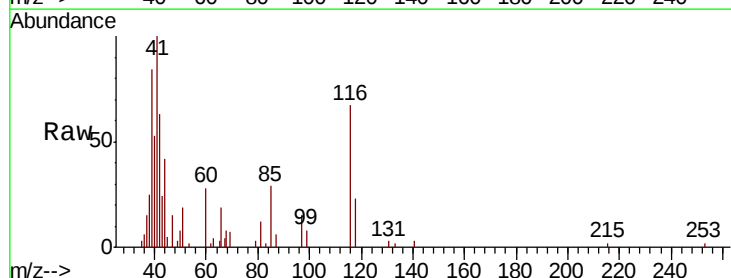
Acq: 25 Sep 2018 13:34

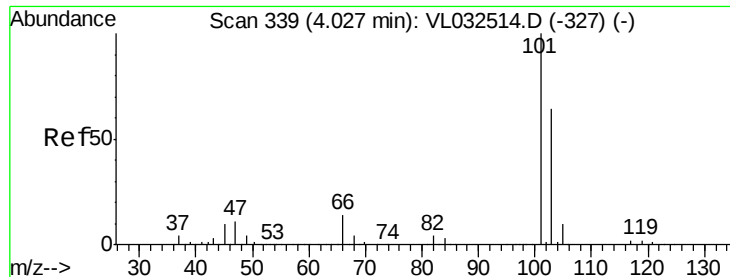
Tgt Ion: 41 Resp: 14630

Ion Ratio Lower Upper

41 100

42 72.3 56.6 84.8





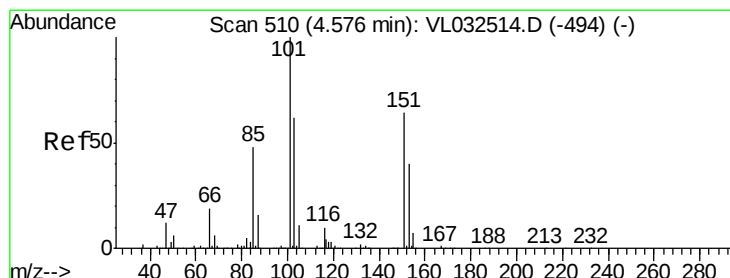
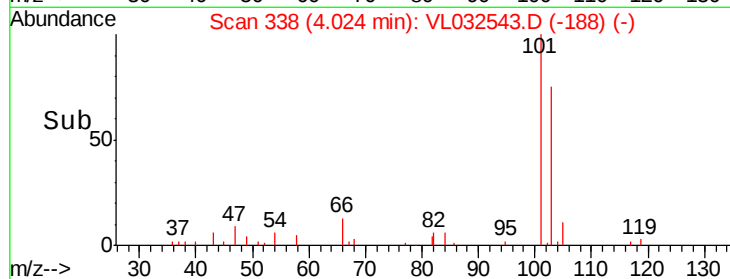
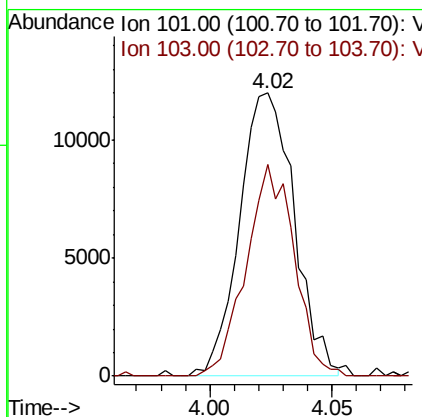
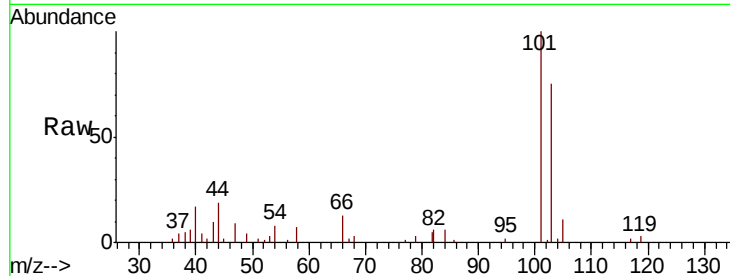
#11
 Trichlorofluoromethane
 Concen: 0.117 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. -0.02 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF1-092018DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		18654		
103	74.8	52.8	79.2		

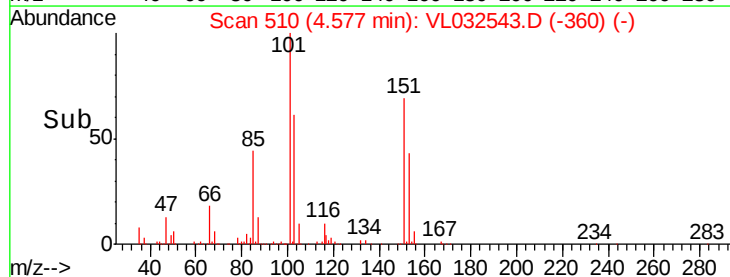
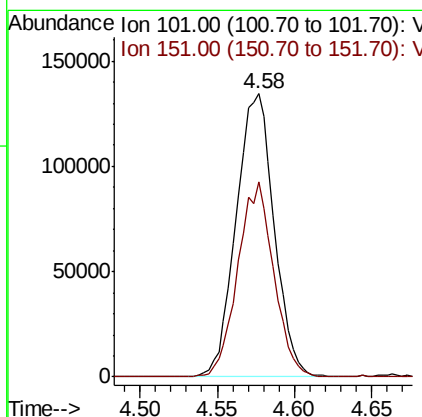
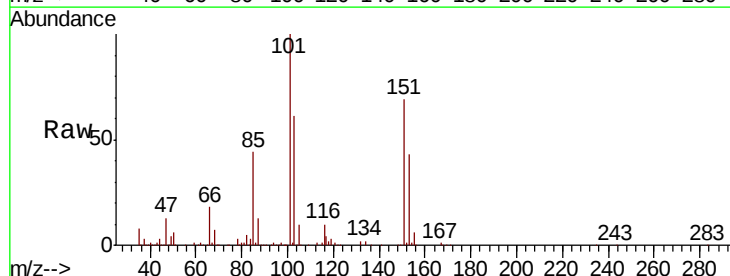
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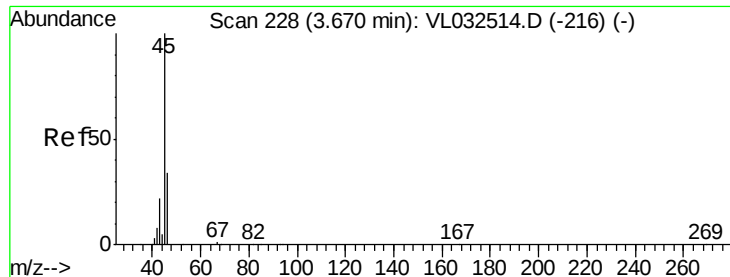
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.761 ppbv
 RT: 4.58 min Scan# 510
 Delta R.T. -0.02 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		229605		
151	65.1	52.6	78.8		





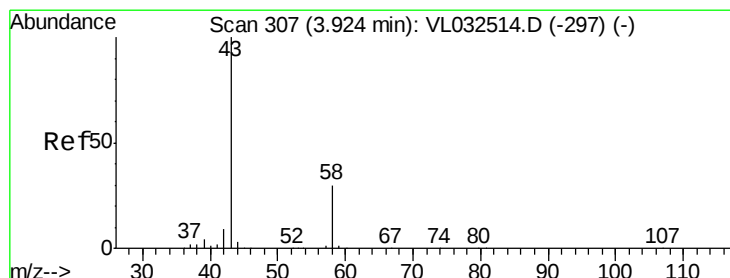
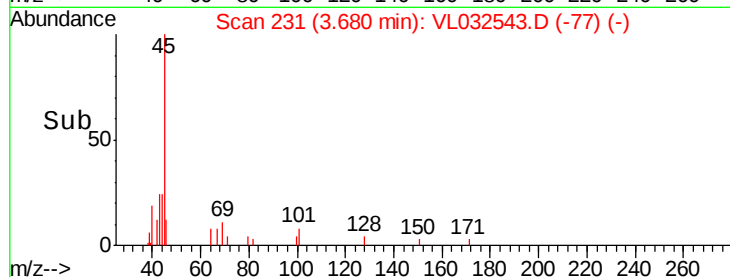
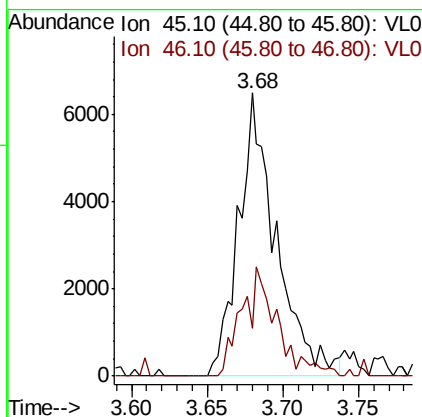
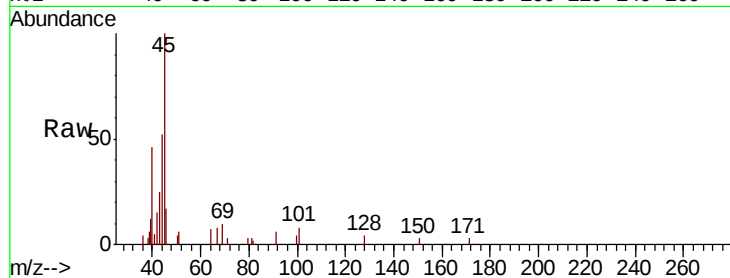
#13
Ethanol
Concen: 0.710 ppbv m
RT: 3.68 min Scan# 231
Delta R.T. -0.01 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF1-092018DL

Tot Ion	45	Resp	11171
Ion Ratio	100	Lower	Upper
46	0.0	14.2	56.8#

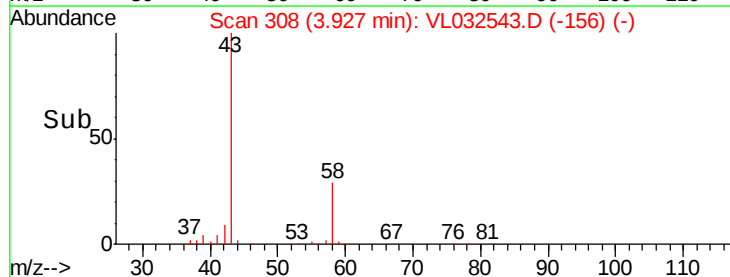
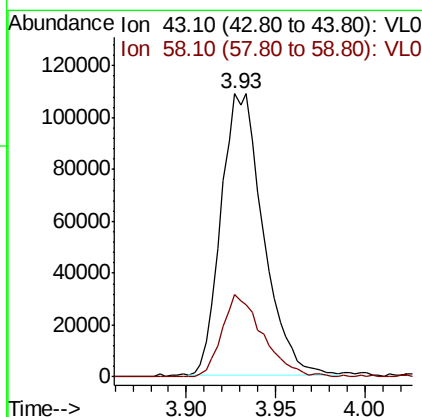
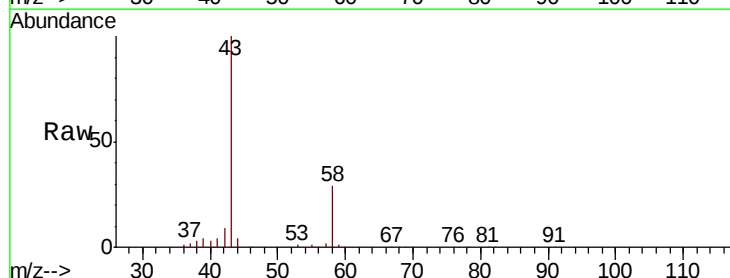
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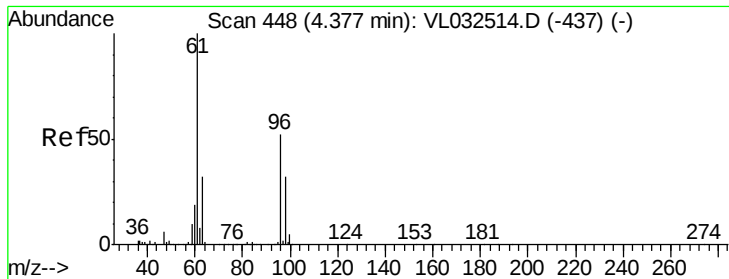
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#15
Acetone
Concen: 1.412 ppbv
RT: 3.93 min Scan# 308
Delta R.T. -0.01 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Tgt Ion	43	Resp	179831
Ion Ratio	100	Lower	Upper
58	28.5	22.6	33.8





#17

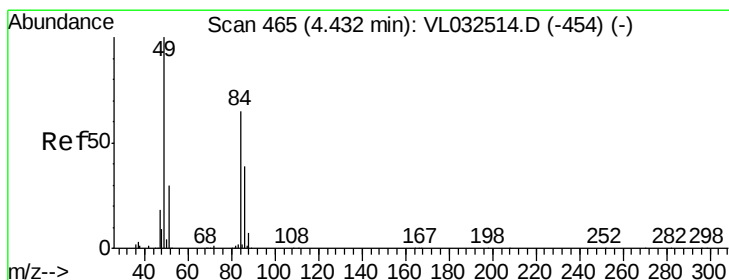
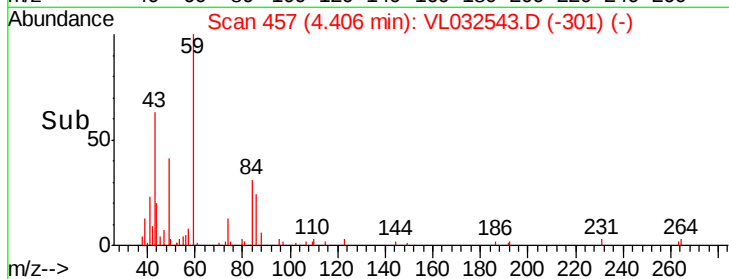
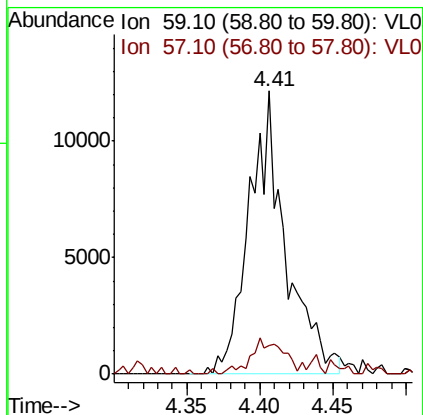
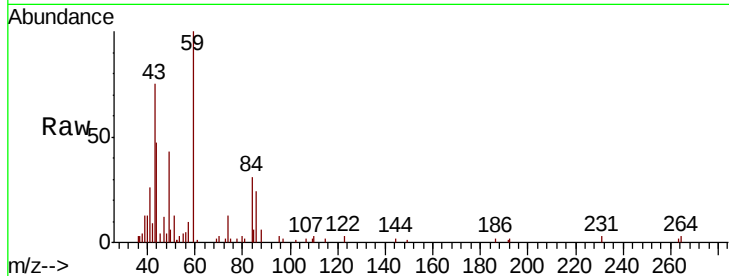
tert-Butyl alcohol
 Concen: 1.323 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF1-092018DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.8	0.0	0.0#

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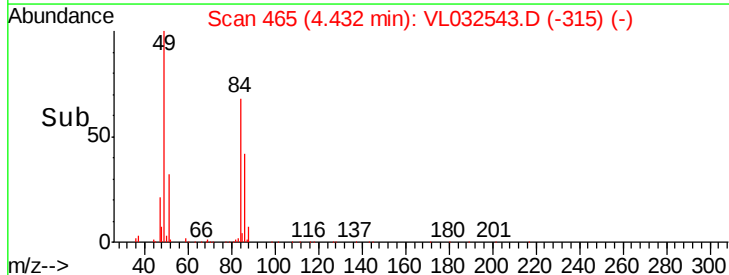
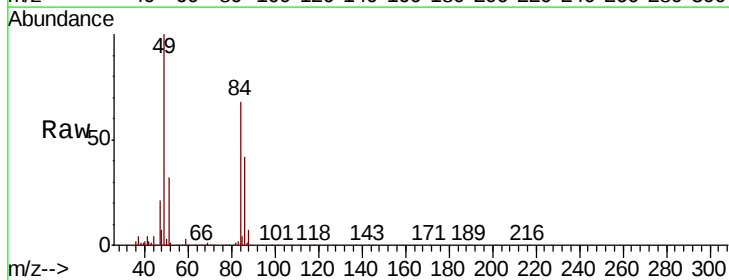
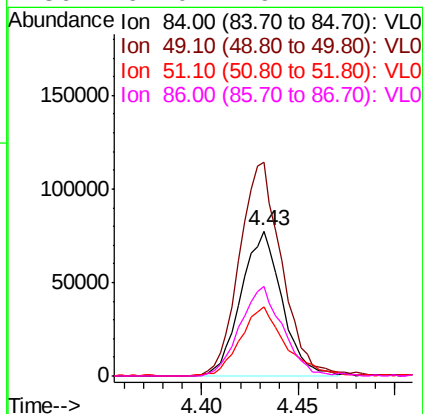
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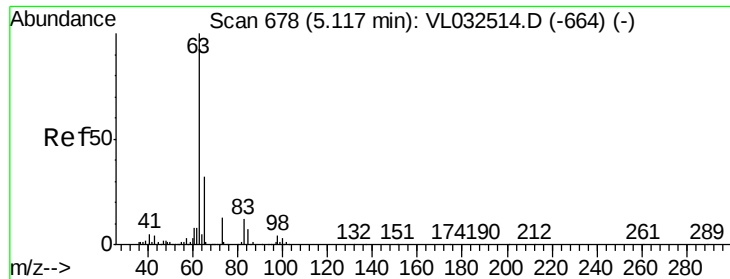


#20

Methylene Chloride
 Concen: 1.855 ppbv
 RT: 4.43 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.1	119.1	178.7
51	47.8	35.2	52.8
86	62.0	49.4	74.2





#24

1,1-Dichloroethane

Concen: 12.264 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.02 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

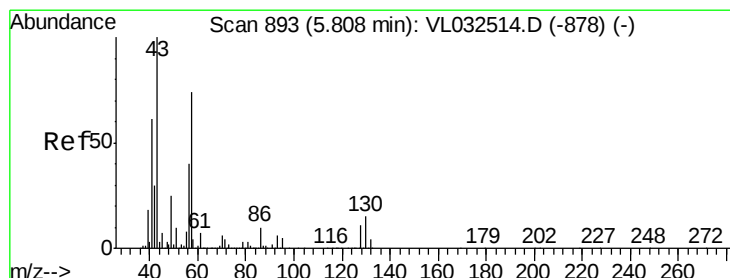
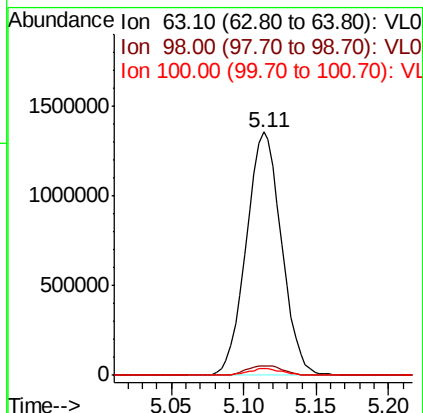
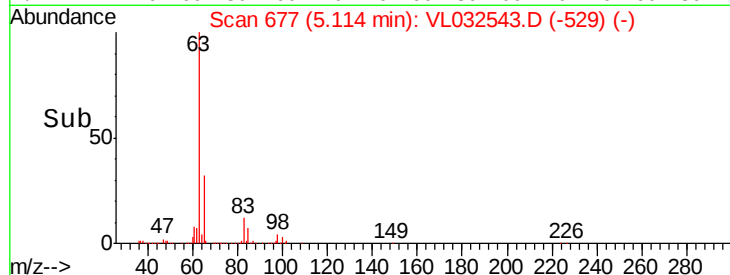
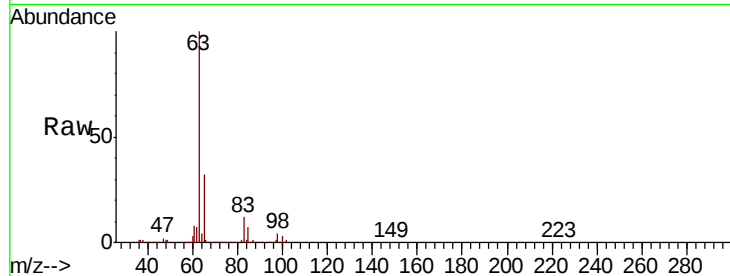
ClientSampleID :

SVE-INF1-092018DL

Tot Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.5
100	2.7	1.5	4.4

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#26

Hexane

Concen: 0.230 ppbv m

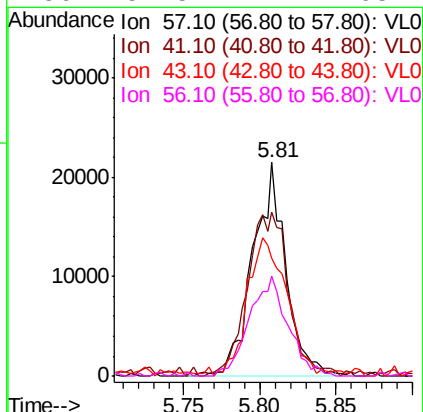
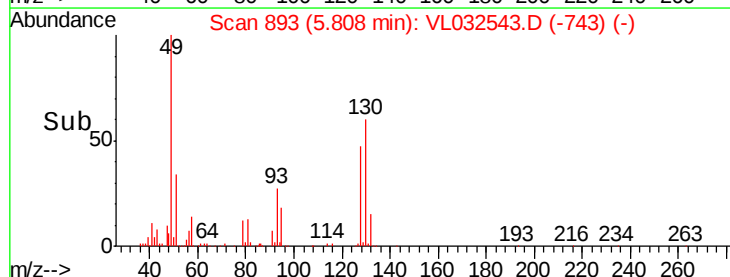
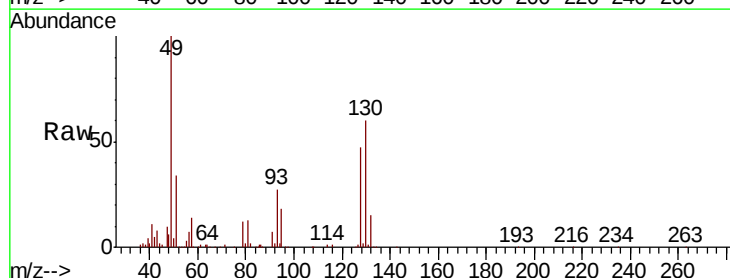
RT: 5.81 min Scan# 893

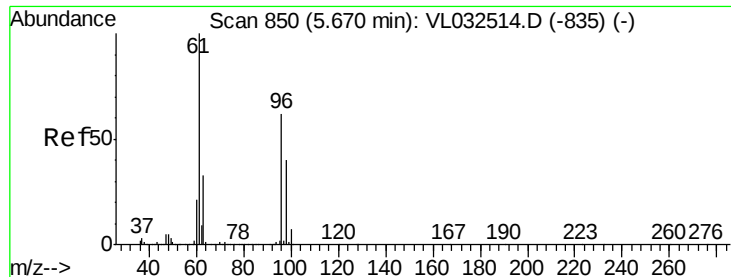
Delta R.T. -0.02 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.7	69.0	103.4
43	81.3	172.1	258.1#
56	54.5	42.2	63.2





#31

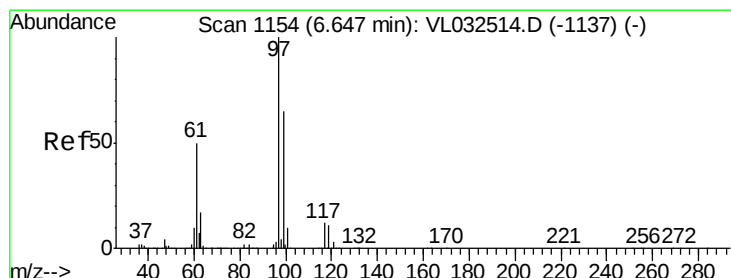
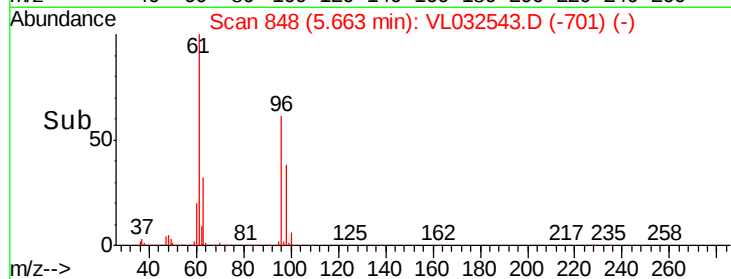
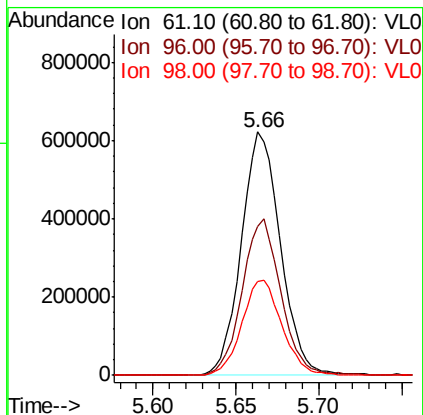
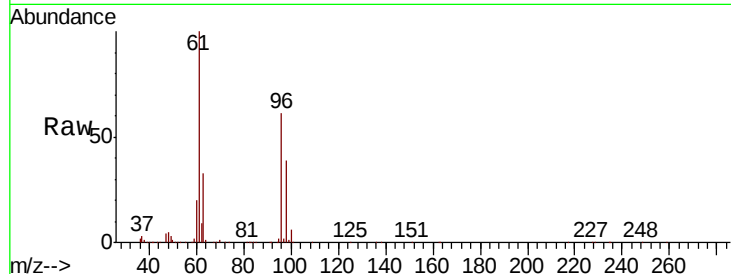
cis-1,2-Dichloroethene
 Concen: 7.668 ppbv
 RT: 5.66 min Scan# 848
 Delta R.T. -0.03 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF1-092018DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.3	49.2	73.8
98	38.5	30.7	46.1

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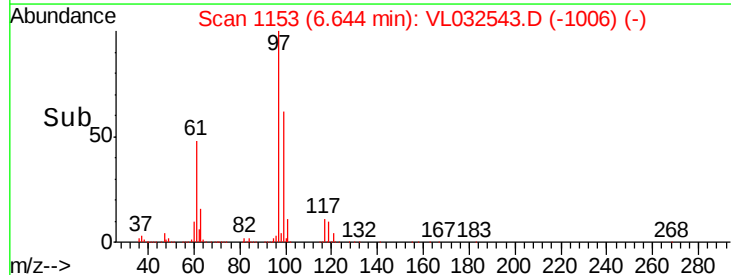
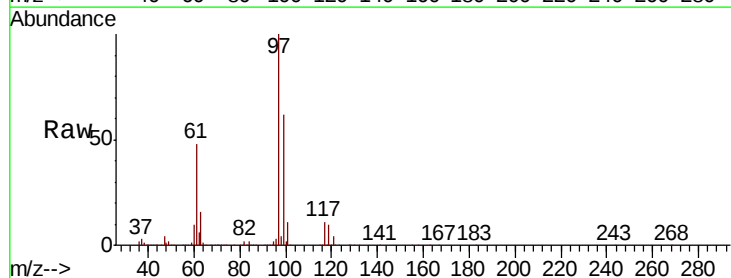
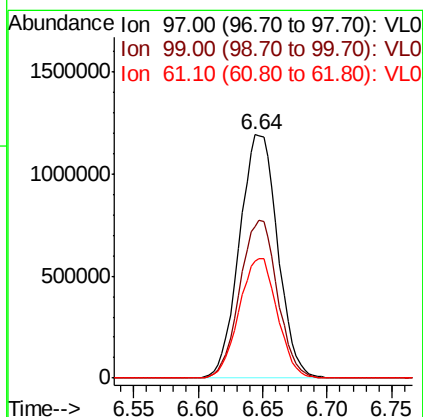
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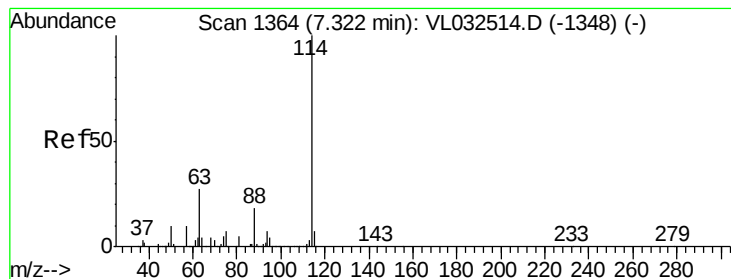


#32

1,1,1-Trichloroethane
 Concen: 10.783 ppbv
 RT: 6.64 min Scan# 1153
 Delta R.T. -0.03 min
 Lab File: VL032543.D
 Acq: 25 Sep 2018 13:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	52.1	78.1
61	49.2	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF1-092018DL

Tot Ion:114 Resp: 3176199

Ion Ratio Lower Upper

114 100

63 26.9 22.2 33.4

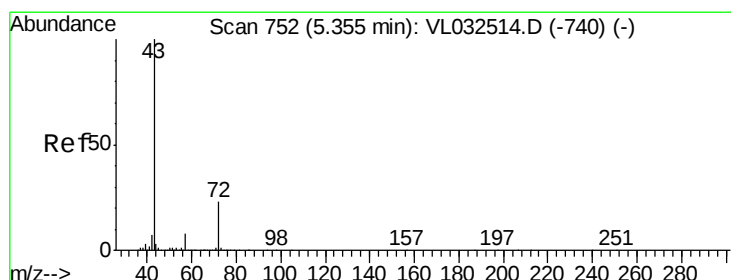
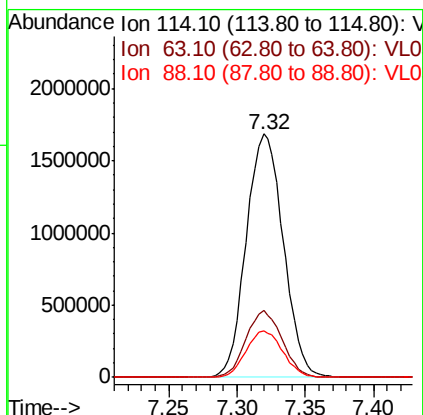
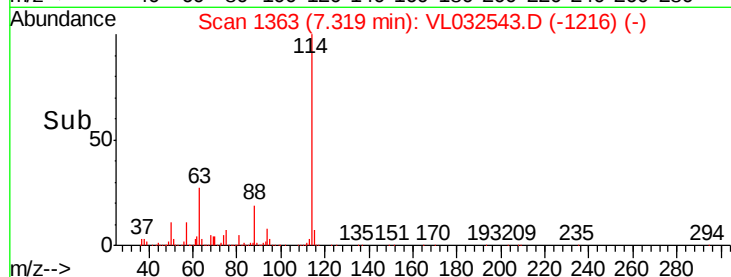
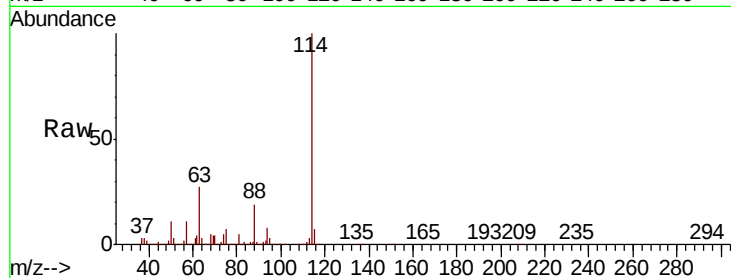
88 18.9 15.0 22.4

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#34

2-Butanone

Concen: 0.124 ppbv

RT: 5.37 min Scan# 758

Delta R.T. 0.00 min

Lab File: VL032543.D

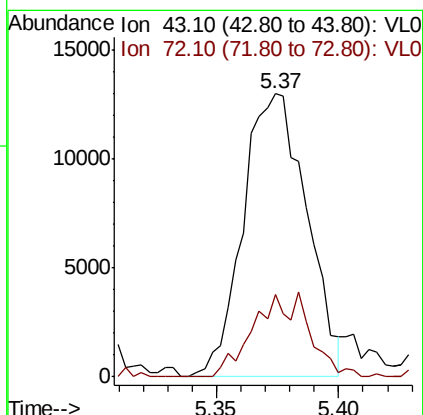
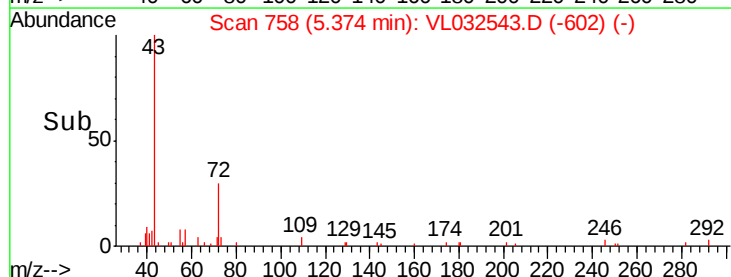
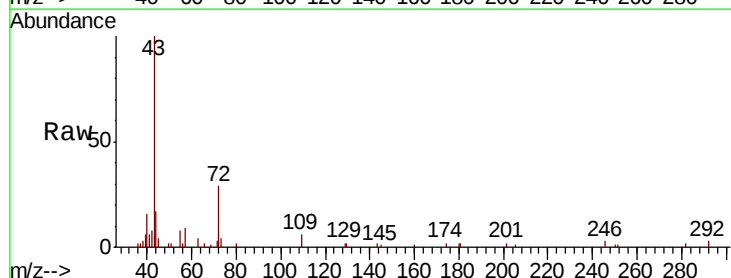
Acq: 25 Sep 2018 13:34

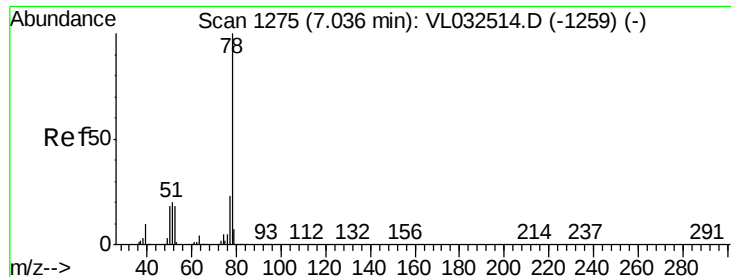
Tgt Ion: 43 Resp: 23468

Ion Ratio Lower Upper

43 100

72 26.1 17.8 26.6





#36

Benzene

Concen: 0.248 ppbv

RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Instrument :

MSVOA_L

ClientSampleId :

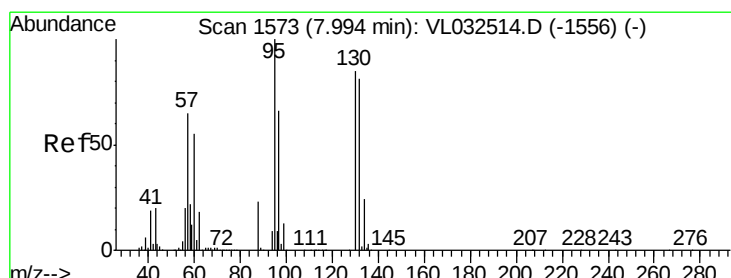
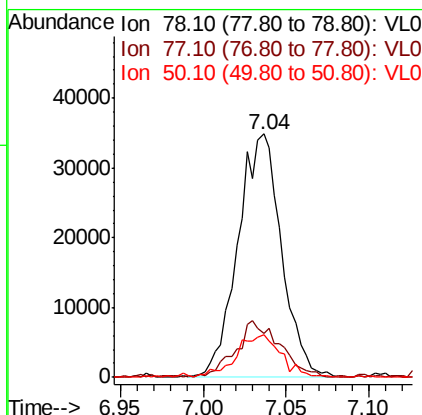
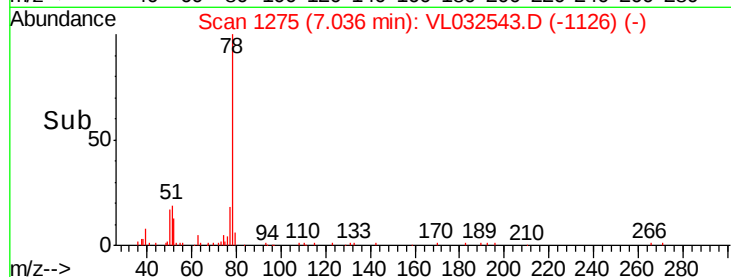
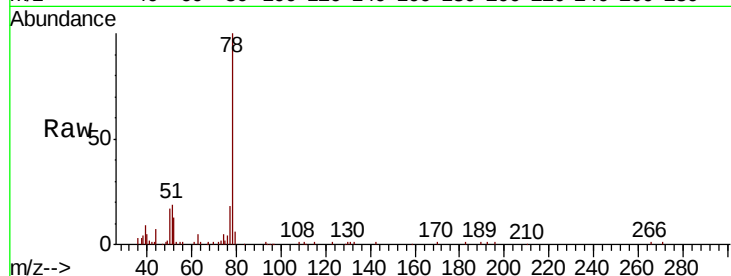
SVE-INF1-092018DL

Tot Ion:	78	Resp:	63656
Ion	Ratio	Lower	Upper
78	100		
77	17.4	18.4	27.6#
50	17.5	14.4	21.6

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#38

Trichloroethene

Concen: 16.471 ppbv

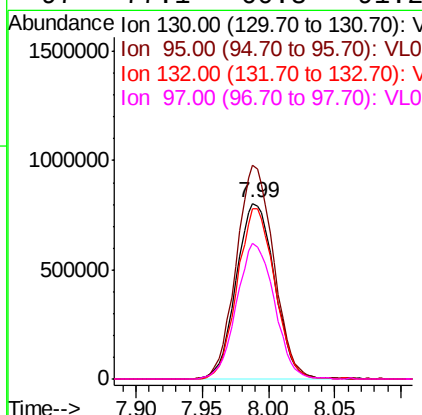
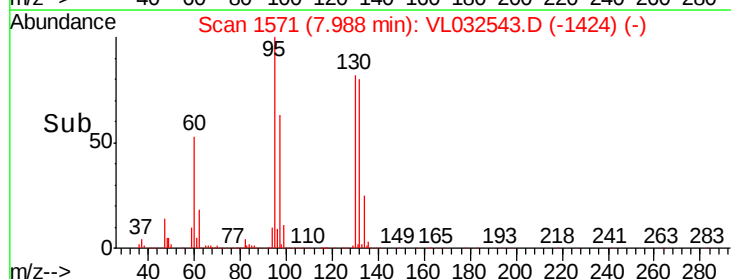
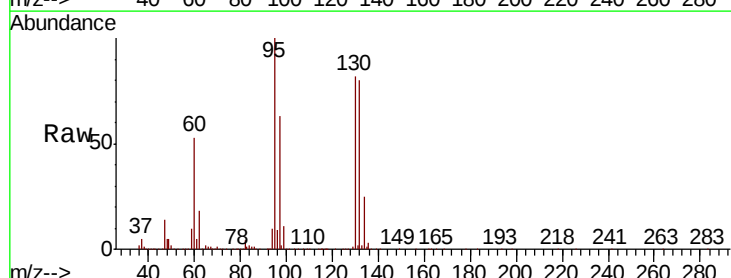
RT: 7.99 min Scan# 1571

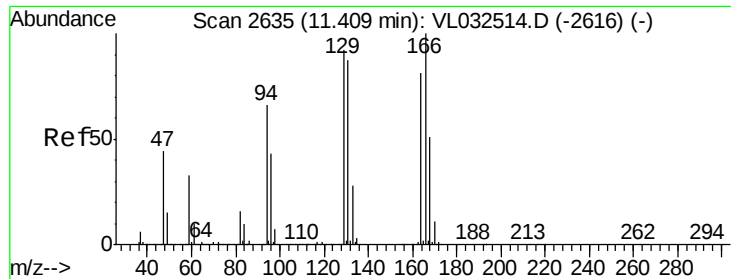
Delta R.T. -0.03 min

Lab File: VL032543.D

Acq: 25 Sep 2018 13:34

Tgt Ion:	130	Resp:	1618296
Ion	Ratio	Lower	Upper
130	100		
95	121.7	94.2	141.4
132	97.1	76.2	114.4
97	77.1	60.8	91.2





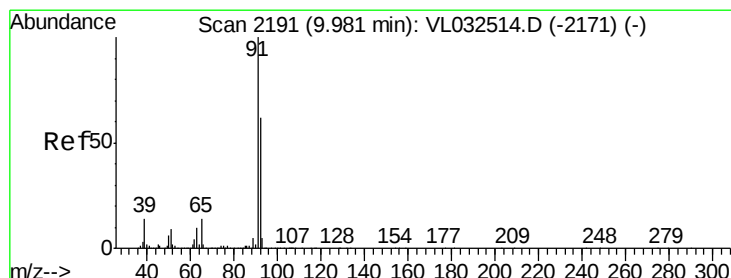
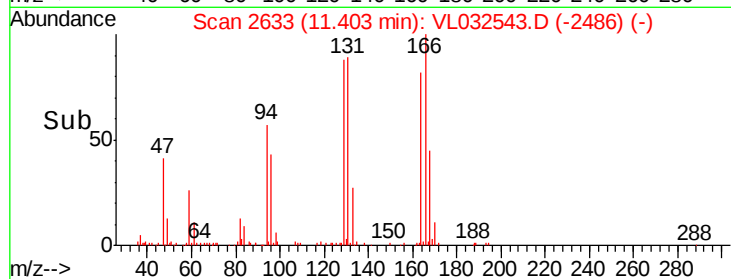
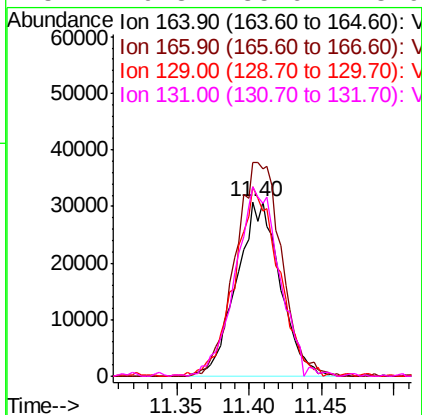
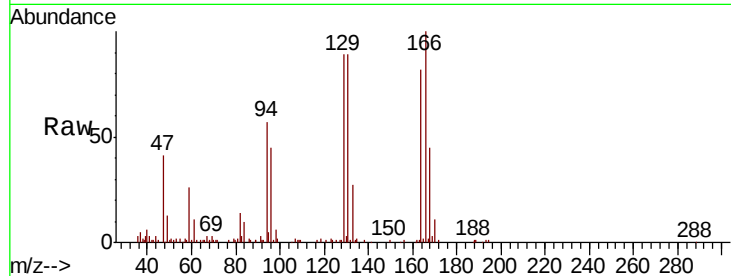
#52
Tetrachloroethene
Concen: 0.724 ppbv
RT: 11.40 min Scan# 2633
Delta R.T. -0.03 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF1-092018DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	122.5	100.6	150.8
129	108.6	89.9	134.9
131	110.3	85.9	128.9

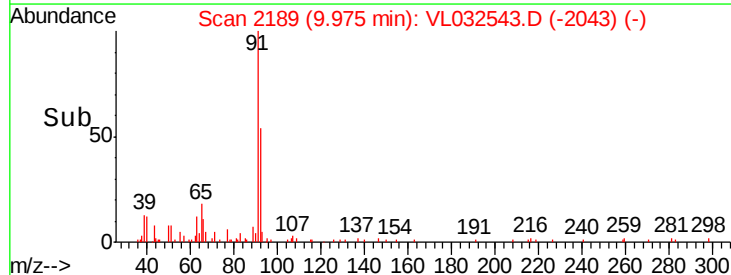
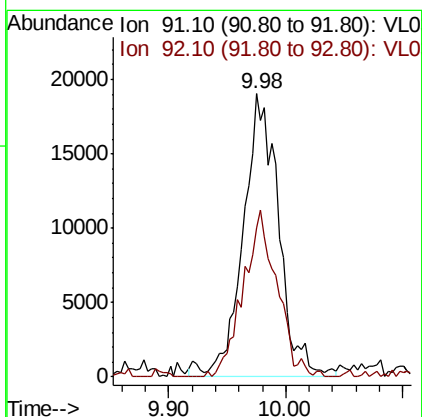
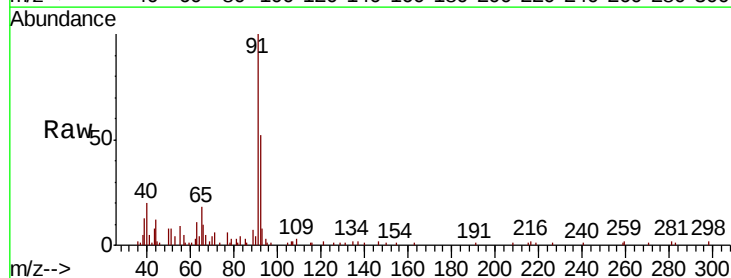
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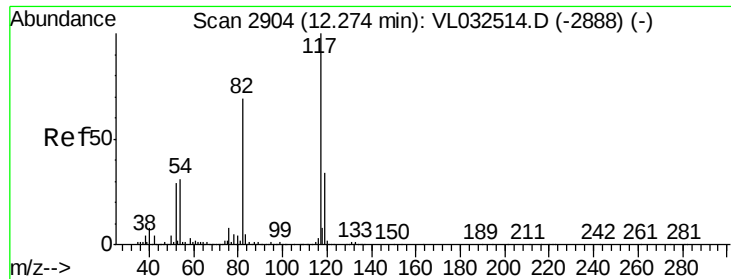
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#53
Toluene
Concen: 0.128 ppbv m
RT: 9.98 min Scan# 2189
Delta R.T. -0.03 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.1	48.1	72.1





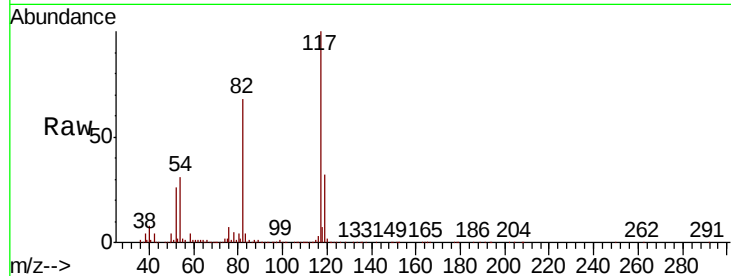
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF1-092018DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.6	53.0	79.6
119	33.0	45.9	68.9

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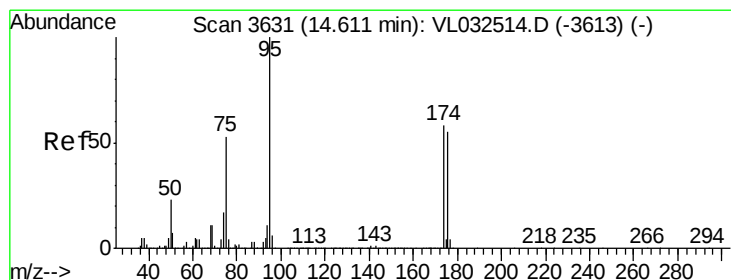
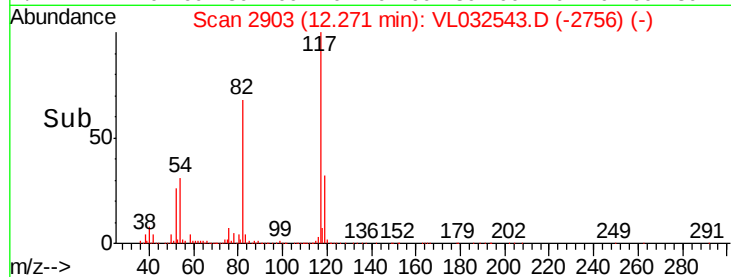
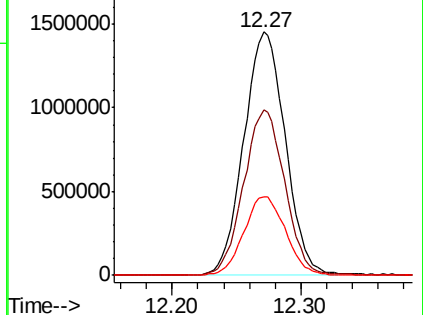


Abundance

Ion 117.10 (116.80 to 117.80): V

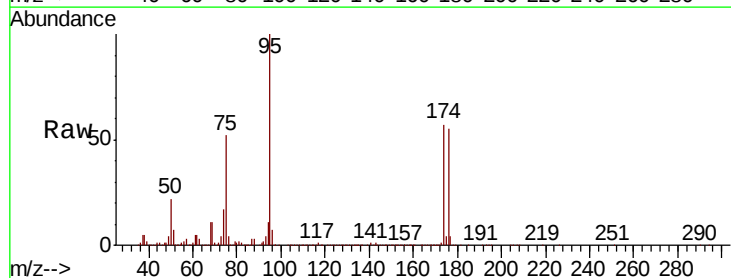
Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.301 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032543.D
Acq: 25 Sep 2018 13:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.4	46.3	69.5
175	4.2	3.4	5.0



Abundance

Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

