

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032605.D
 Acq On : 11 Oct 2018 15:24
 Operator : SY/AP
 Sample : J5316-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:30 PM

Quant Time: Oct 12 02:12:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1522889	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3218384	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3436359	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2451288	9.46	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	17986	0.128	ppbv	89
4) Chloromethane	3.19	50	99042	1.341	ppbv	95
7) Chloroethane	3.62	64	5639	0.212	ppbv	98
9) Propene	3.05	41	412077	7.499	ppbv	95
11) Trichlorofluoromethane	4.02	101	101869	0.608	ppbv	94
13) Ethanol	3.68	45	129099	7.816	ppbv	97
15) Acetone	3.93	43	22867419	171.066	ppbv #	61
17) tert-Butyl alcohol	4.38	59	582916	34.702	ppbv #	100
20) Methylene Chloride	4.44	84	56293	0.870	ppbv	94
26) Hexane	5.80	57	687698	4.694	ppbv #	40
29) Chloroform	5.89	83	31978	0.142	ppbv	87
34) 2-Butanone	5.36	43	1730612	9.030	ppbv	98
36) Benzene	7.04	78	274682	1.056	ppbv	96
50) 4-Methyl-2-Pentanone	8.91	43	70227	0.233	ppbv	99
51) 2-Hexanone	10.31	43	427854	1.717	ppbv #	97
52) Tetrachloroethene	11.41	164	102947	1.137	ppbv	95
53) Toluene	9.99	91	24375707	76.906	ppbv #	83
58) Ethyl Benzene	12.90	91	4639404	11.130	ppbv	99
59) m/p-Xylene	13.16	91	12724304	34.309	ppbv	96
60) o-Xylene	13.88	91	3941145	10.915	ppbv	98
62) Isopropylbenzene	14.86	105	73315	0.144	ppbv	94
72) 4-Ethyltoluene	16.03	105	193901	0.495	ppbv #	83
73) 1,3,5-Trimethylbenzene	16.19	105	165364m	0.434	ppbv	
74) 1,2,4-Trimethylbenzene	16.96	105	623529	1.520	ppbv #	68
79) Naphthalene	22.47	128	546462m	1.848	ppbv	

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

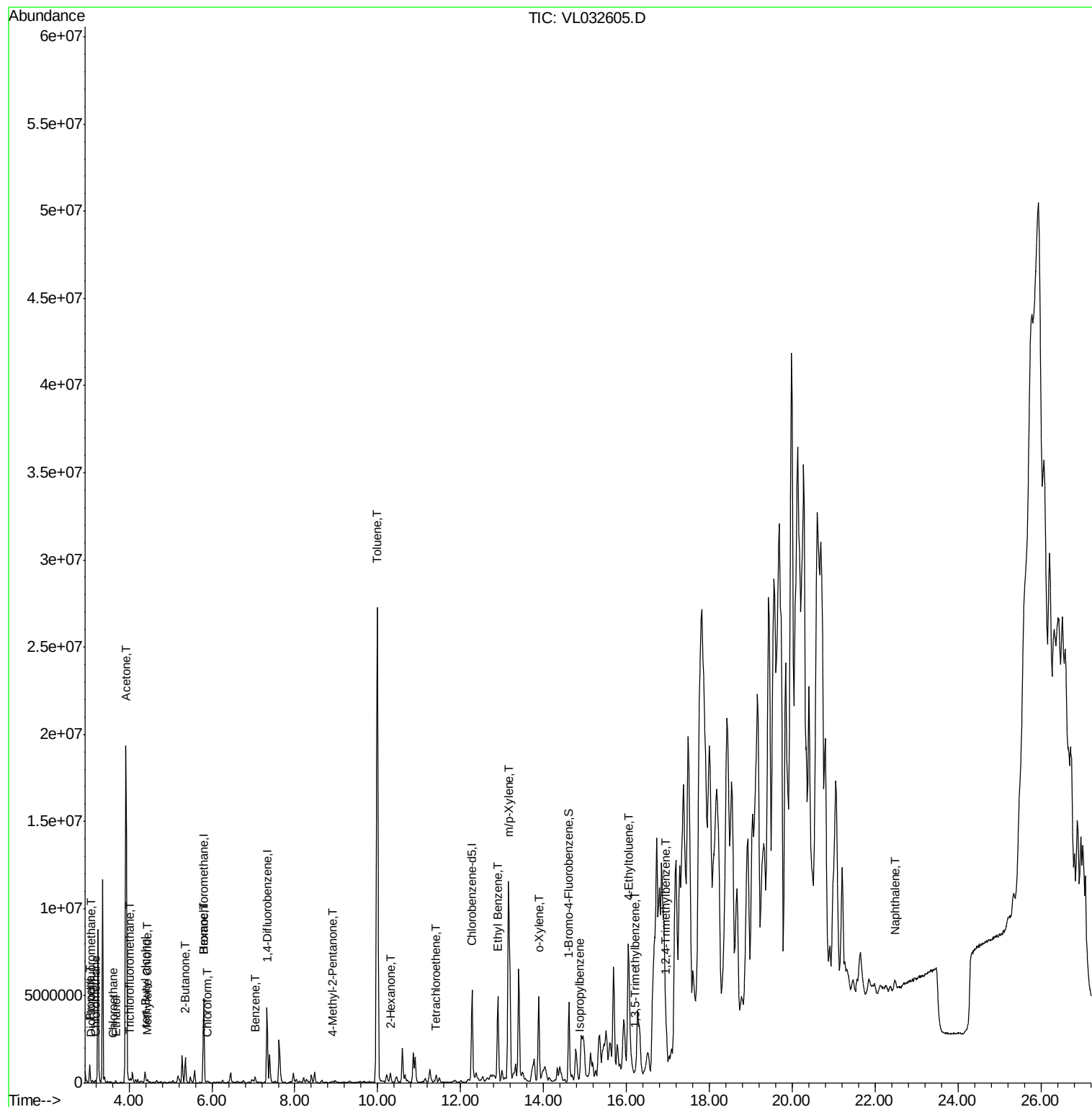
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101118\
Data File : VL032605.D
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Operator : SY/AP
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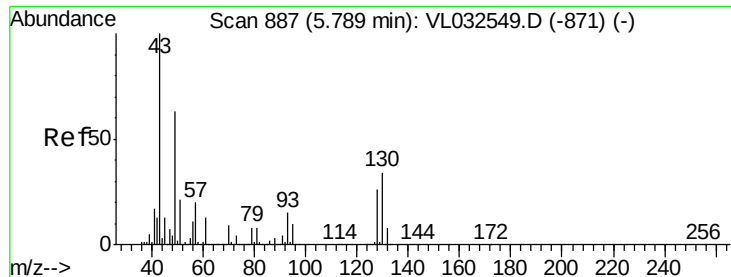
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Manual Integrations
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Quant Time: Oct 12 02:12:24 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 49 Resp: 1522889

Ion Ratio Lower Upper

49 100

128 43.7 20.7 62.1

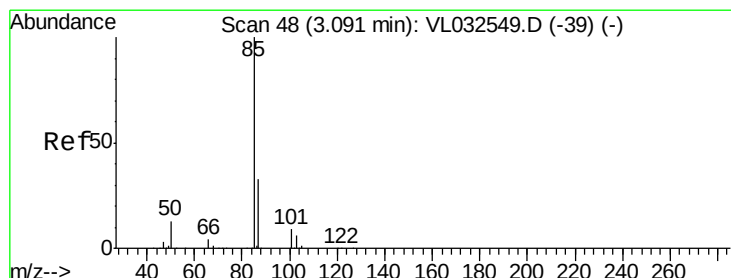
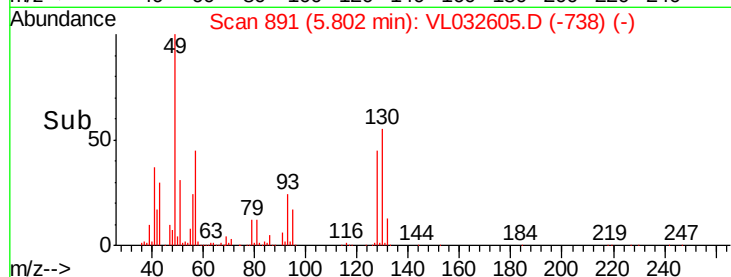
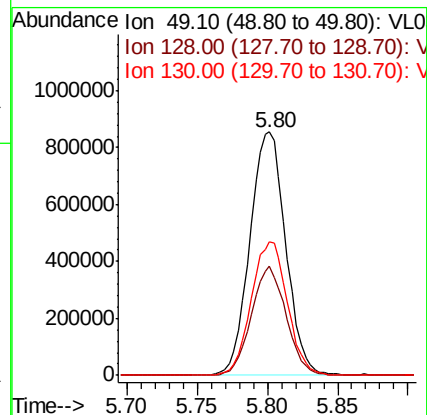
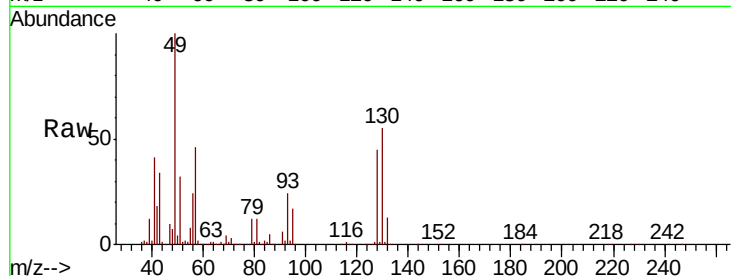
130 55.5 26.6 79.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.128 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032605.D

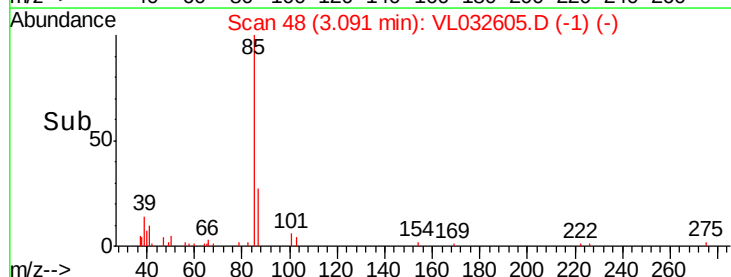
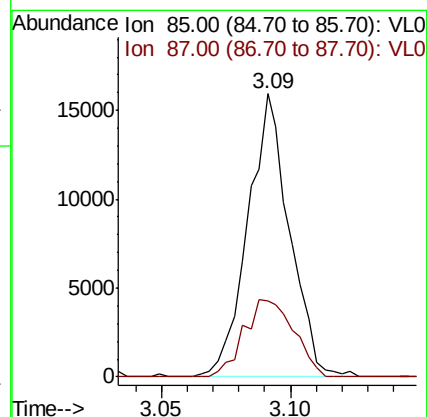
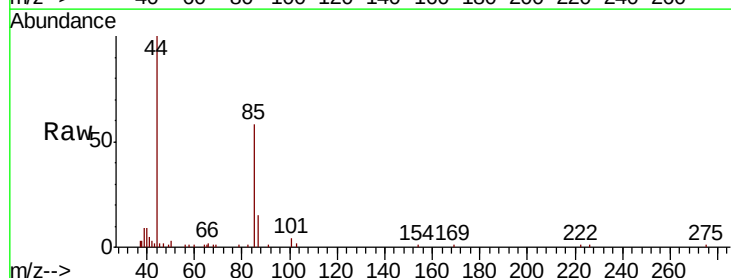
Acq: 11 Oct 2018 15:24

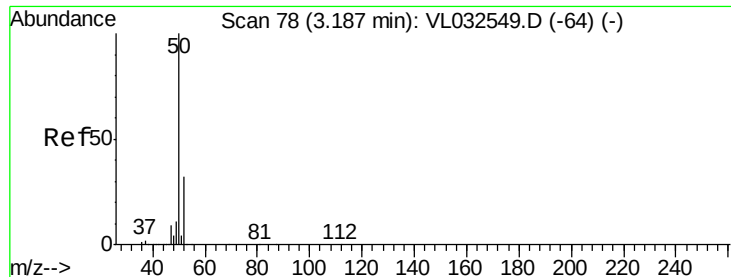
Tgt Ion: 85 Resp: 17986

Ion Ratio Lower Upper

85 100

87 26.7 26.2 39.4





#4

Chloromethane

Concen: 1.341 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion: 50 Resp: 99042

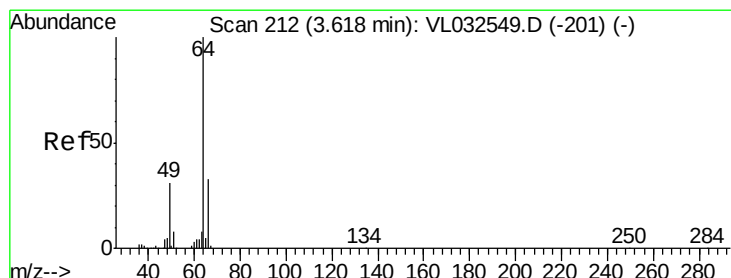
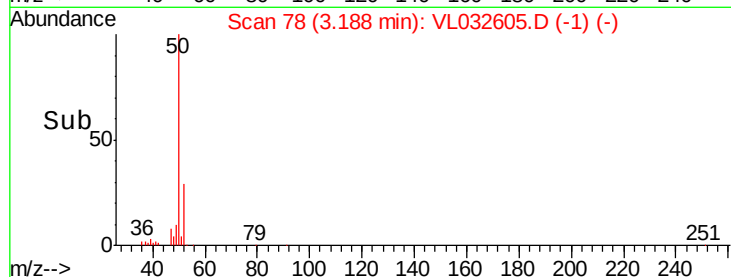
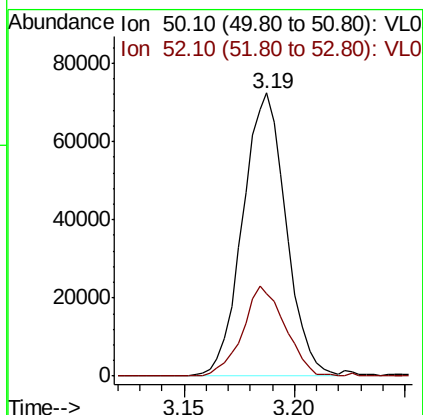
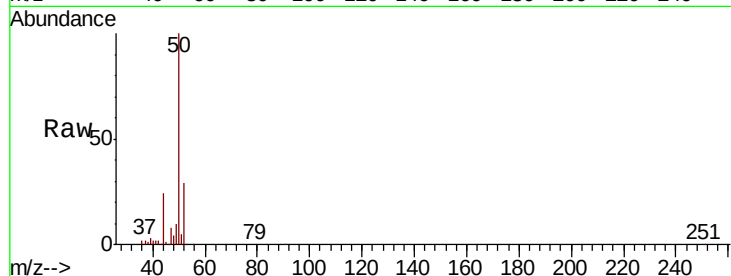
Ion Ratio Lower Upper

50 100

52 29.0 25.6 38.4

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#7

Chloroethane

Concen: 0.212 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032605.D

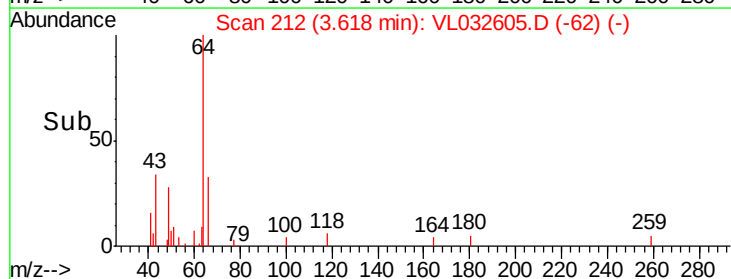
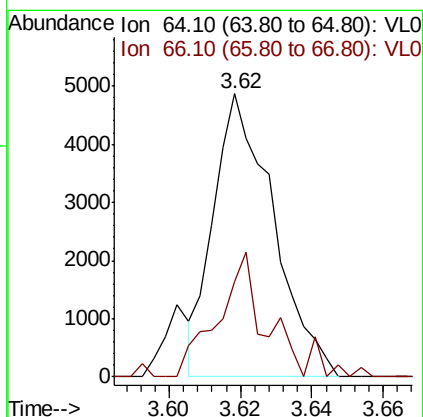
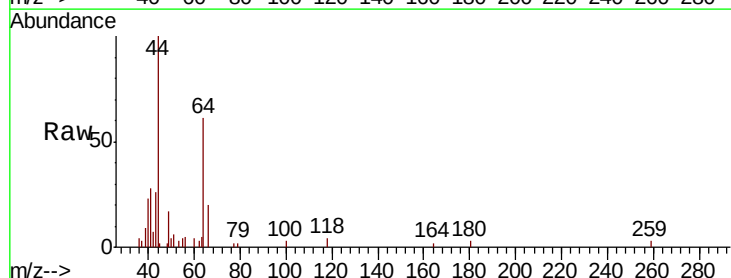
Acq: 11 Oct 2018 15:24

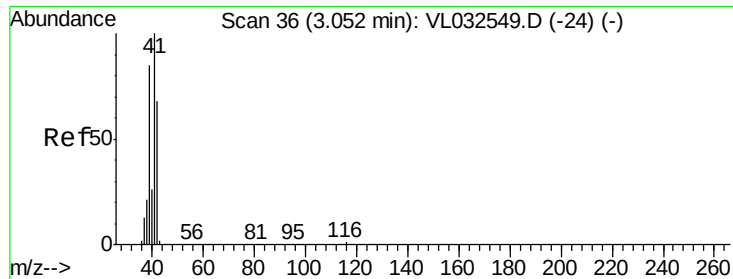
Tgt Ion: 64 Resp: 5639

Ion Ratio Lower Upper

64 100

66 33.5 25.8 38.6





#9

Propene

Concen: 7.499 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion: 41 Resp: 412077

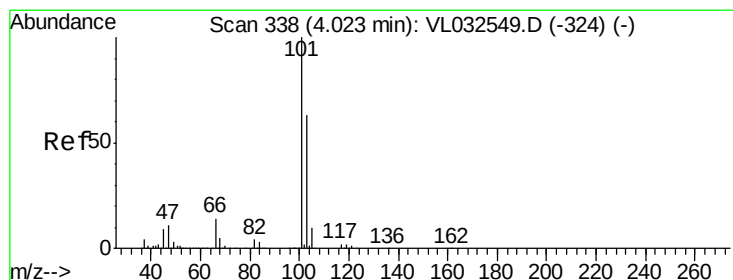
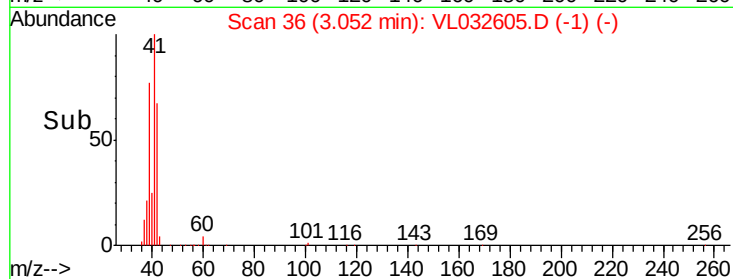
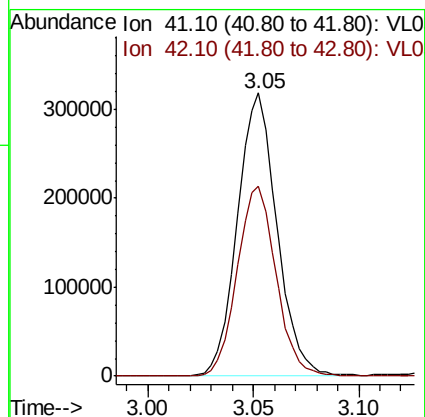
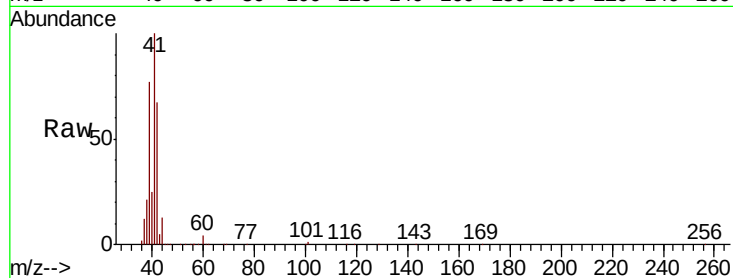
Ion Ratio Lower Upper

41 100

42 66.7 56.6 84.8

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#11

Trichlorofluoromethane

Concen: 0.608 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032605.D

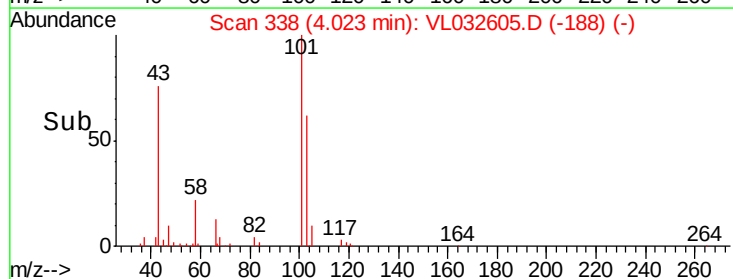
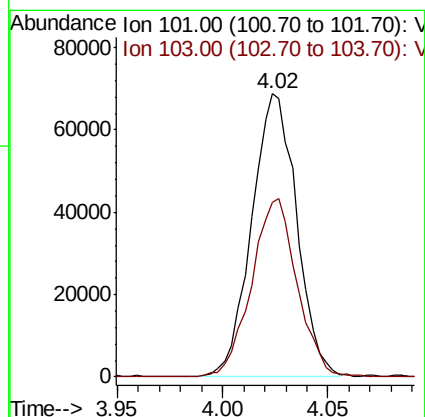
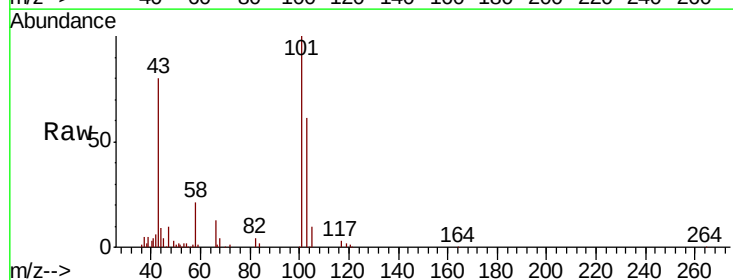
Acq: 11 Oct 2018 15:24

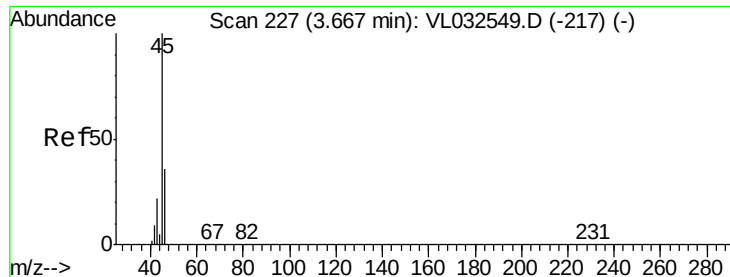
Tgt Ion: 101 Resp: 101869

Ion Ratio Lower Upper

101 100

103 61.2 52.8 79.2





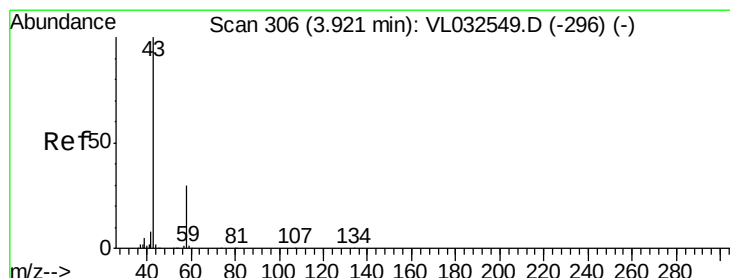
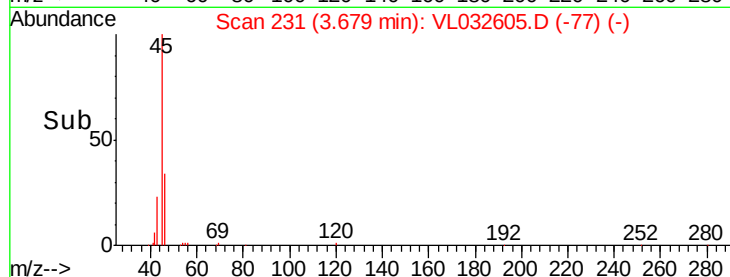
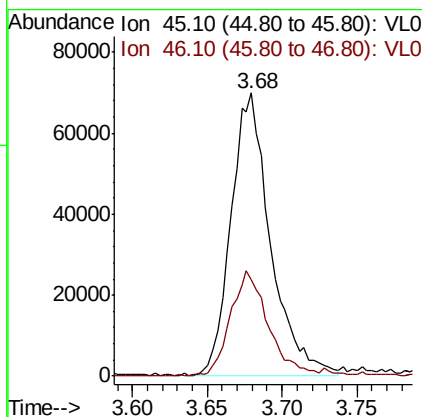
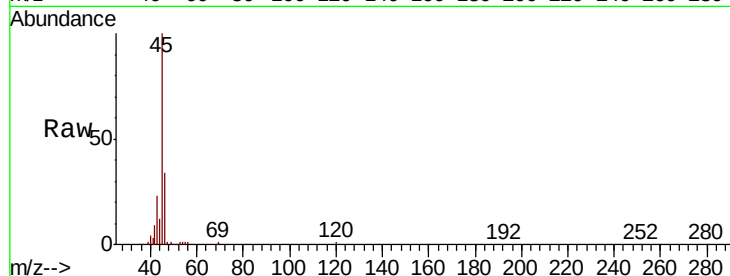
#13
Ethanol
Concen: 7.816 ppbv
RT: 3.68 min Scan# 231
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion: 45 Resp: 129099
Ion Ratio Lower Upper
45 100
46 37.1 14.2 56.8

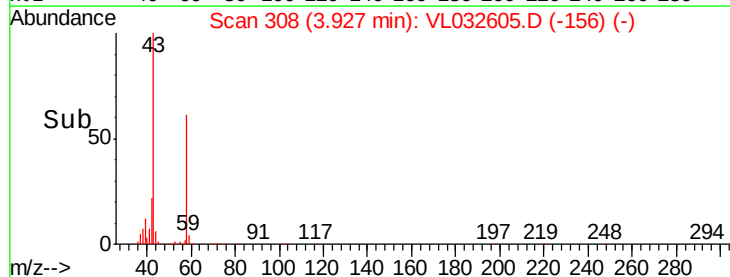
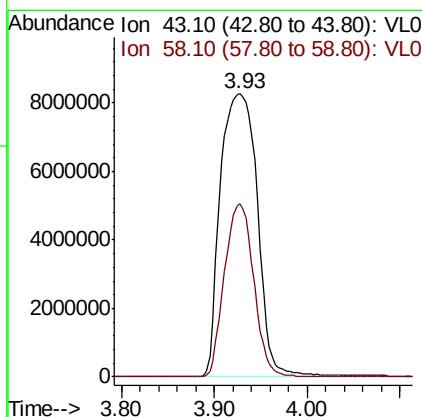
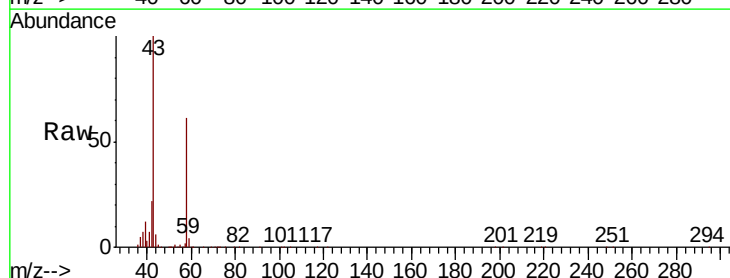
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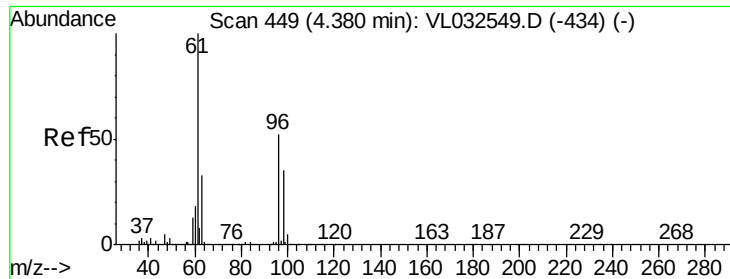
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#15
Acetone
Concen: 171.066 ppbv
RT: 3.93 min Scan# 308
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion: 43 Resp: 22867419
Ion Ratio Lower Upper
43 100
58 48.8 22.6 33.8#





#17

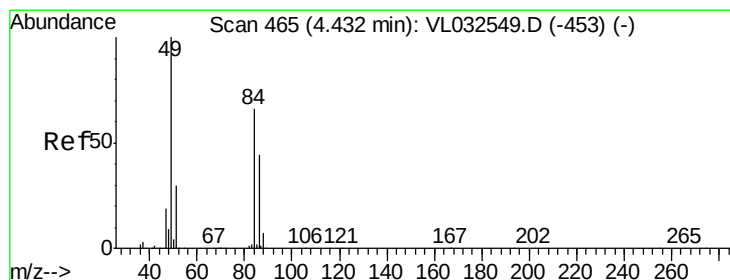
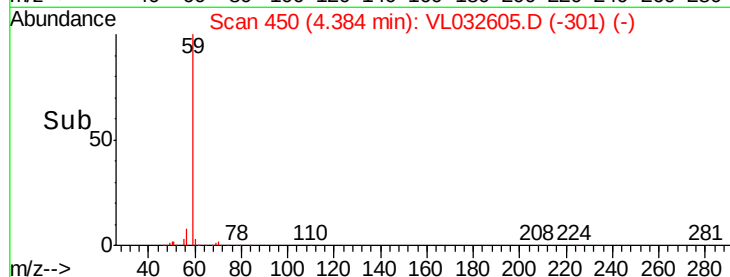
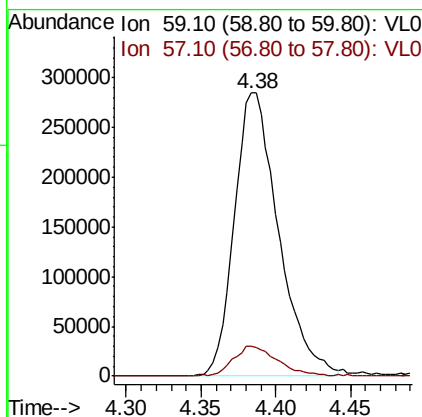
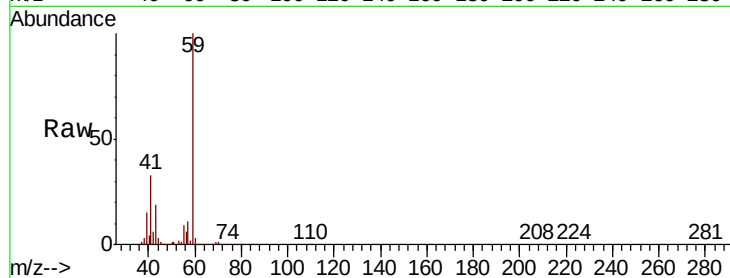
tert-Butyl alcohol
Concen: 34.702 ppbv
RT: 4.38 min Scan# 450
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 59 Resp: 582916
Ion Ratio Lower Upper
59 100
57 10.9 0.0 0.0#

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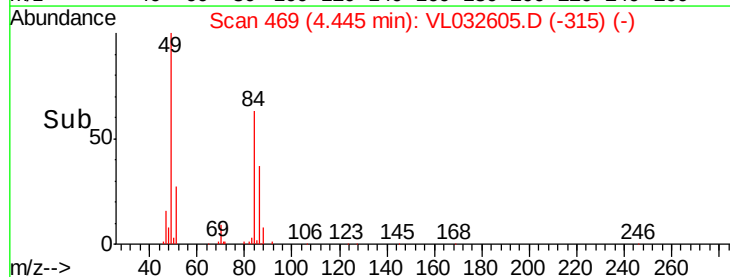
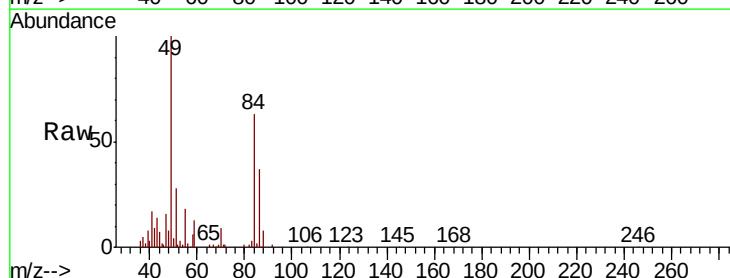
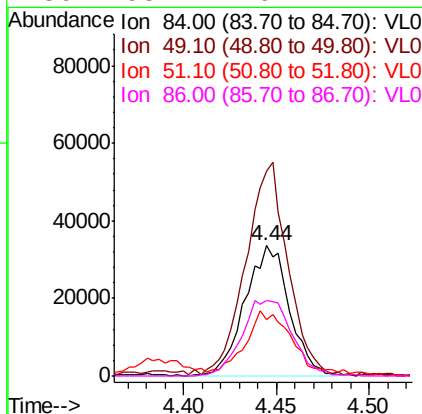
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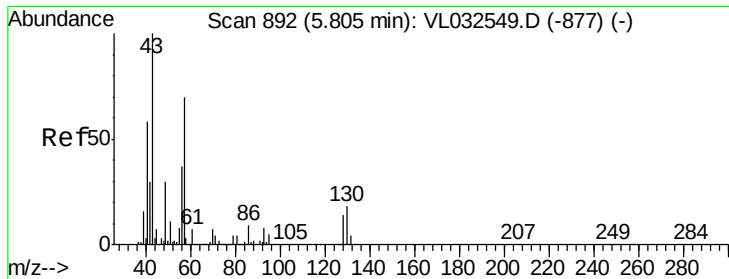


#20

Methylene Chloride
Concen: 0.870 ppbv
RT: 4.44 min Scan# 469
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion: 84 Resp: 56293
Ion Ratio Lower Upper
84 100
49 156.4 119.1 178.7
51 39.9 35.2 52.8
86 58.1 49.4 74.2





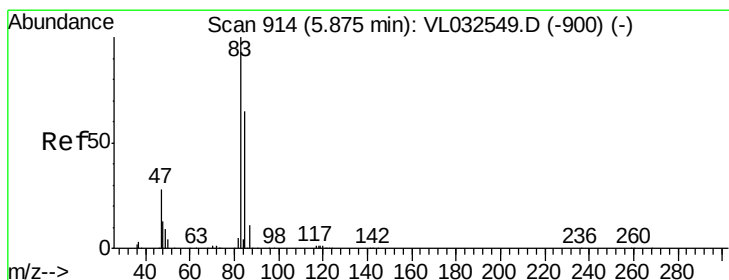
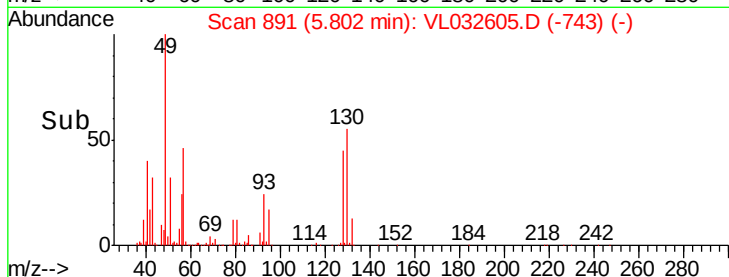
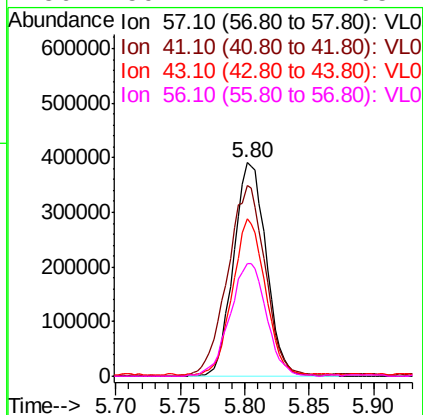
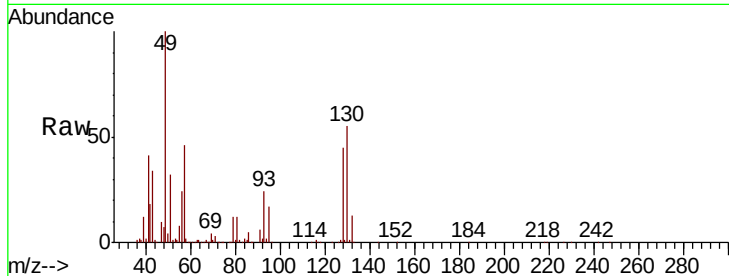
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Hexane
Concen: 4.694 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	103.2	69.0	103.4
43	73.3	172.1	258.1#
56	59.4	42.2	63.2

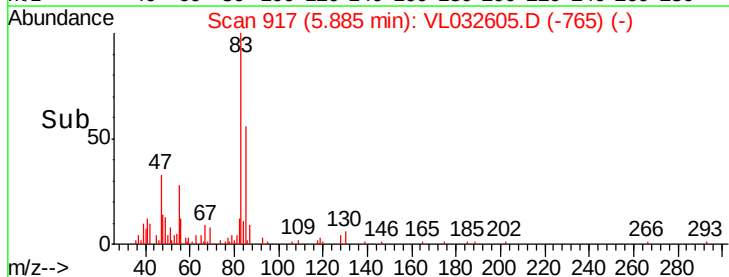
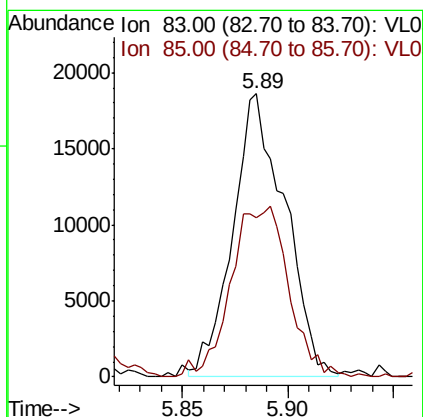
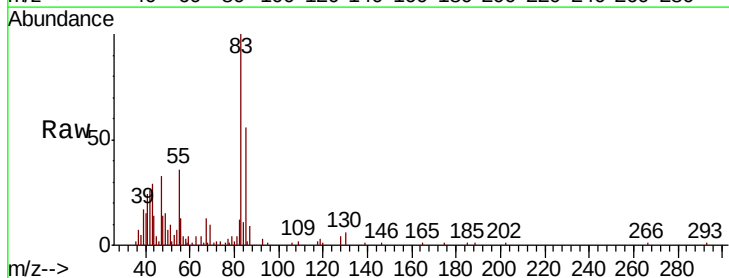
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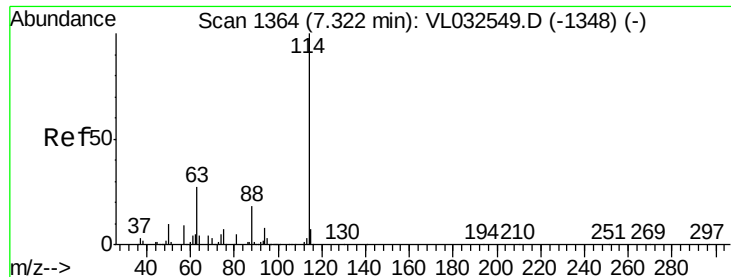
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#29
Chloroform
Concen: 0.142 ppbv
RT: 5.89 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.4	52.5	78.7





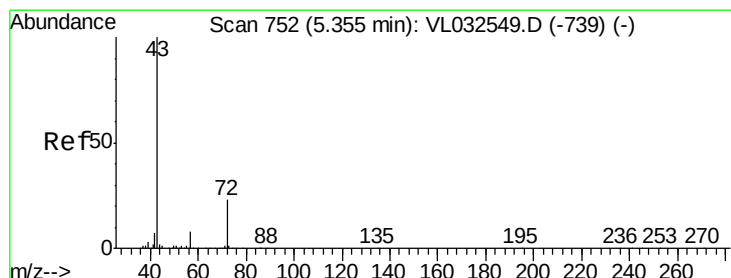
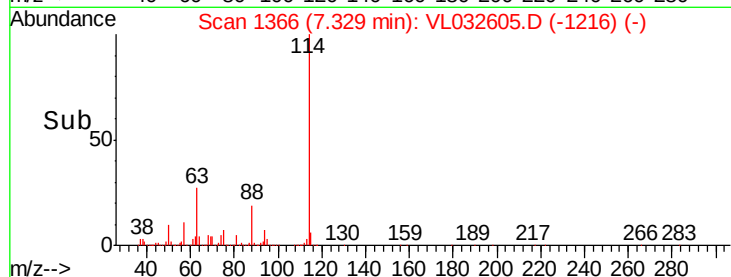
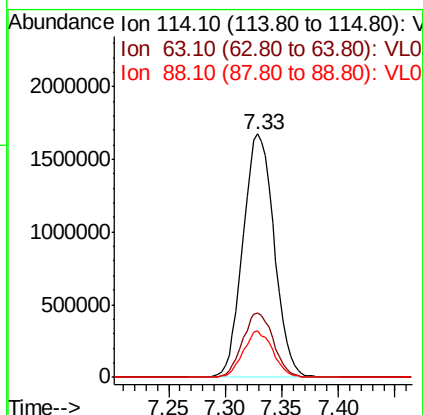
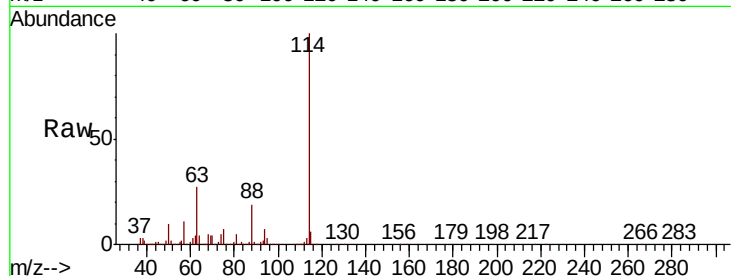
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.02 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	22.2	33.4
88	18.1	15.0	22.4

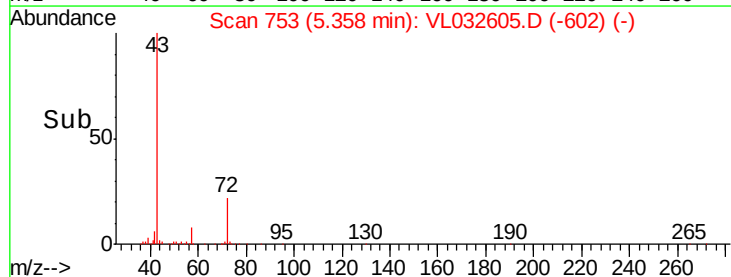
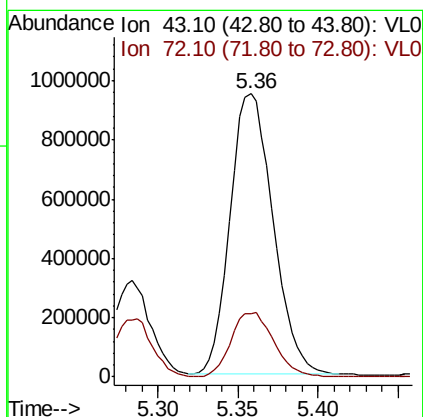
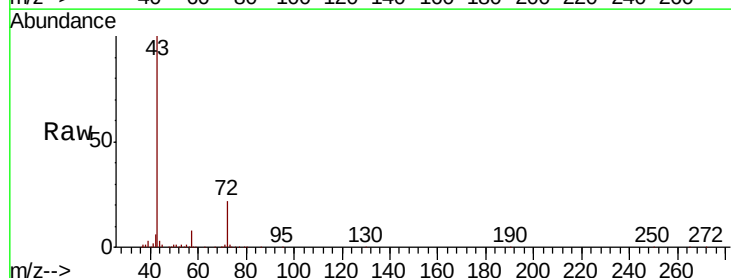
Manual Integrations
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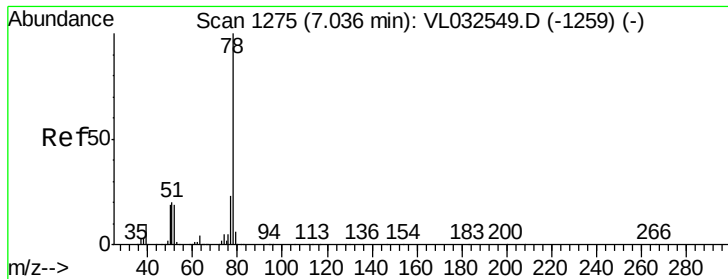
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#34
 2-Butanone
 Concen: 9.030 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.8	26.6





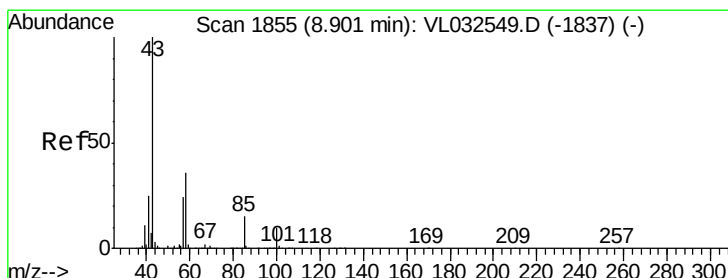
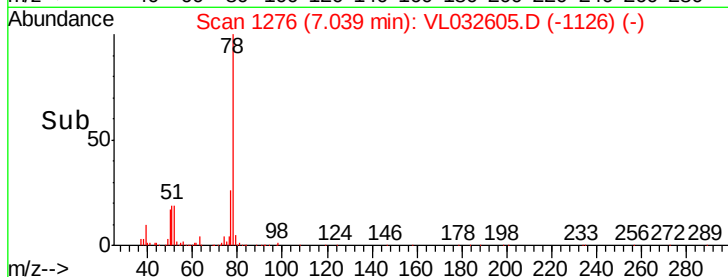
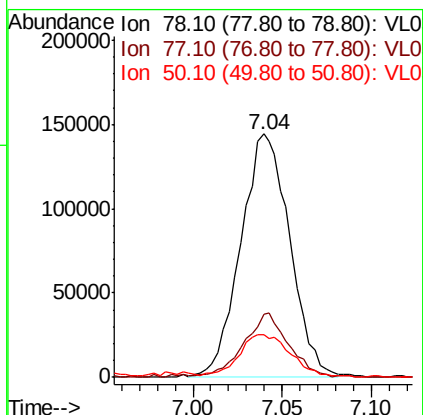
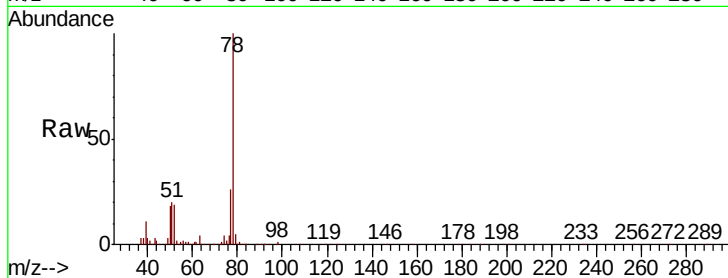
#36
Benzene
Concen: 1.056 ppbv
RT: 7.04 min Scan# 1276
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.4	27.6
50	17.3	14.4	21.6

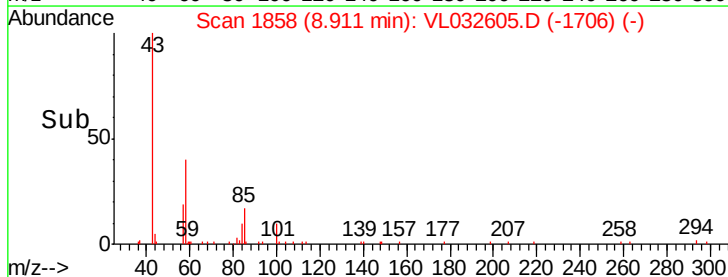
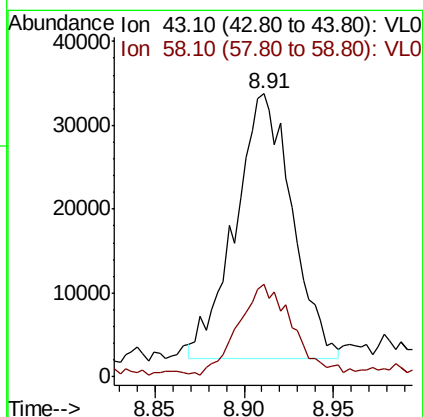
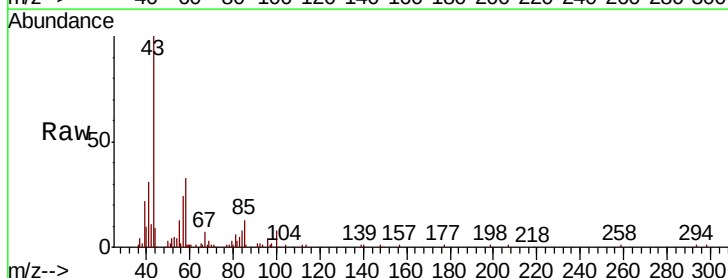
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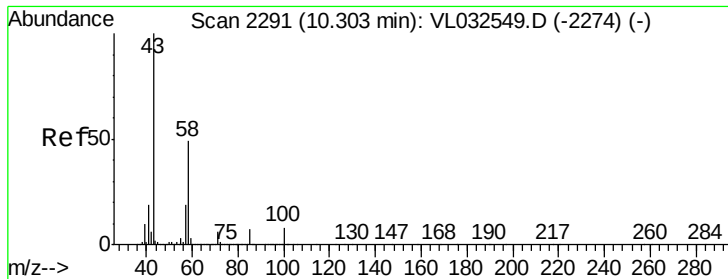
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#50
4-Methyl-2-Pentanone
Concen: 0.233 ppbv
RT: 8.91 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.0	43.4





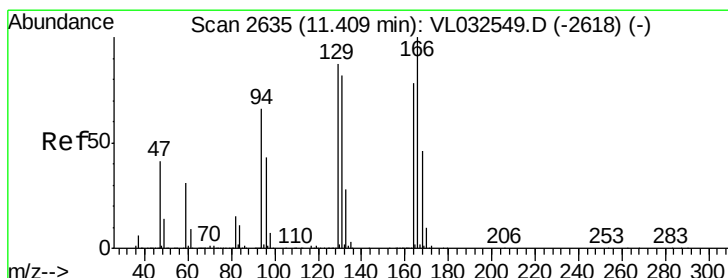
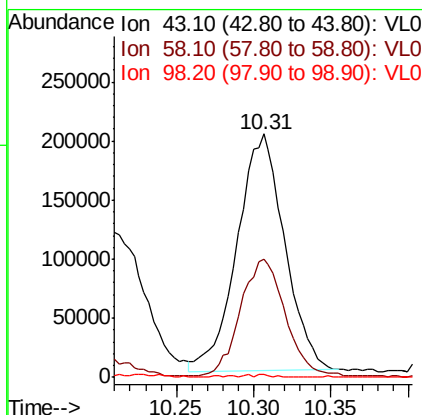
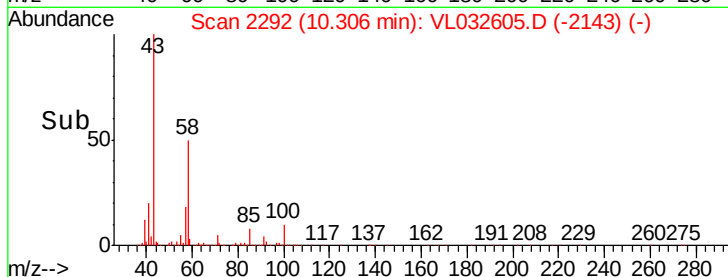
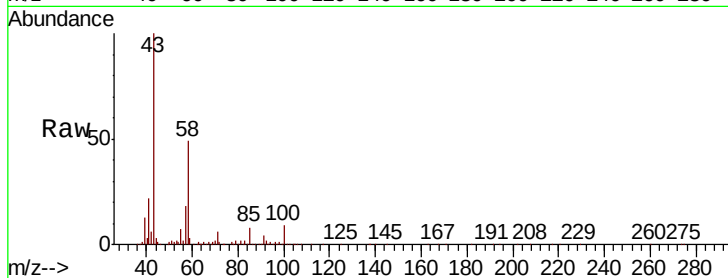
#51
2-Hexanone
Concen: 1.717 ppbv
RT: 10.31 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.9	39.2	58.8
98	1.2	0.4	0.6

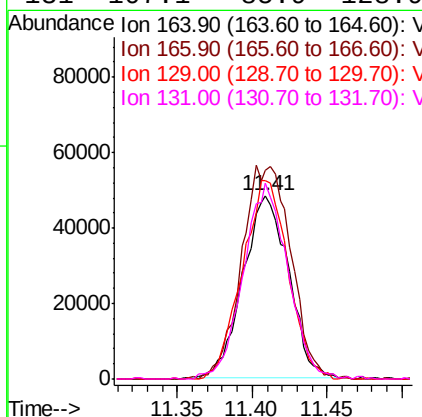
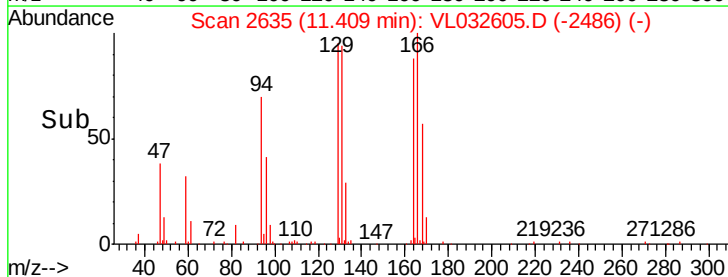
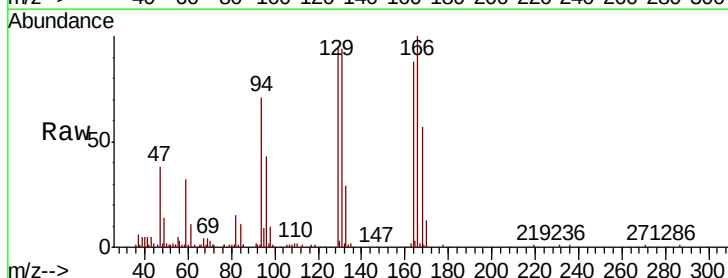
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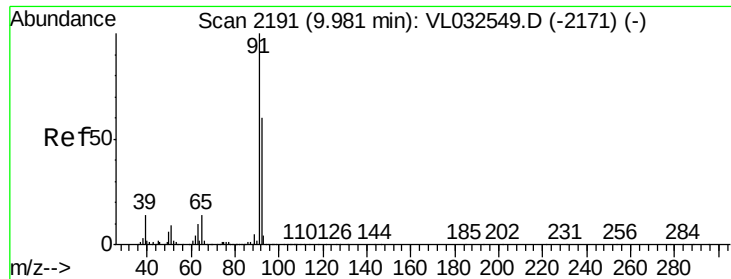
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#52
Tetrachloroethene
Concen: 1.137 ppbv
RT: 11.41 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	114.0	100.6	150.8
129	108.7	89.9	134.9
131	107.1	85.9	128.9





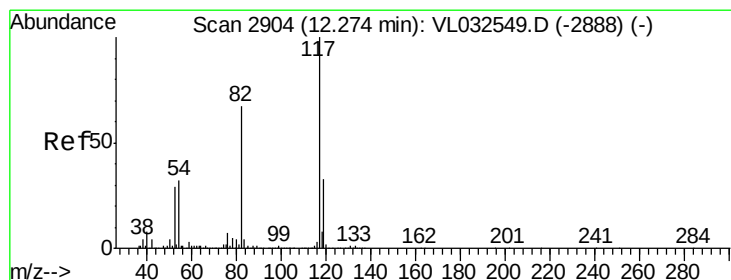
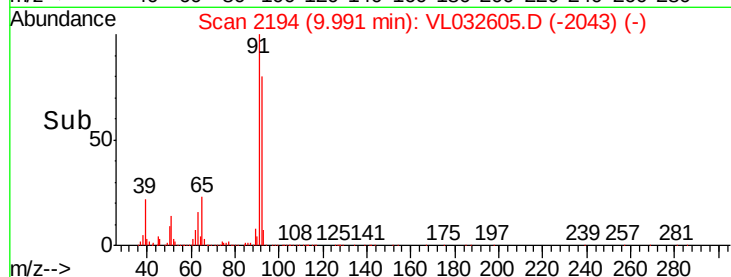
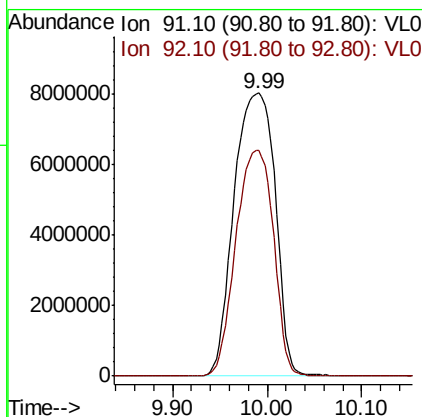
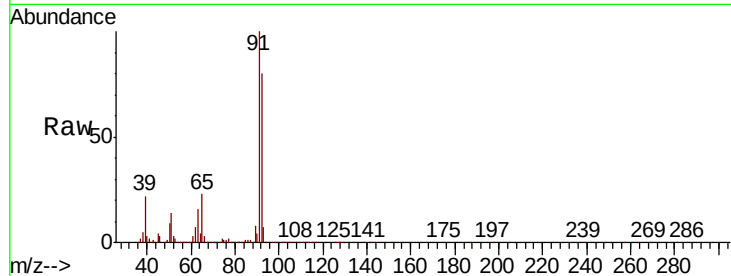
#53
Toluene
Concen: 76.906 ppbv
RT: 9.99 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 91 Resp: 24375707
Ion Ratio Lower Upper
91 100
92 73.1 48.1 72.1#

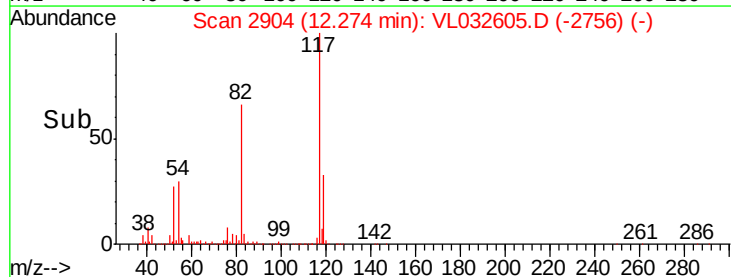
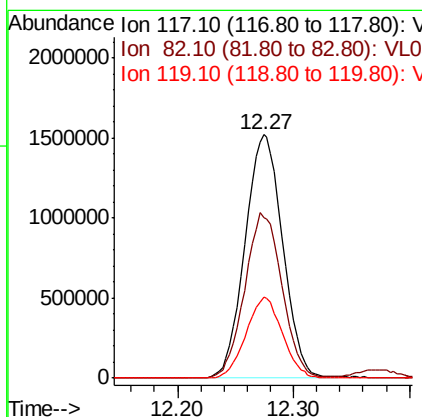
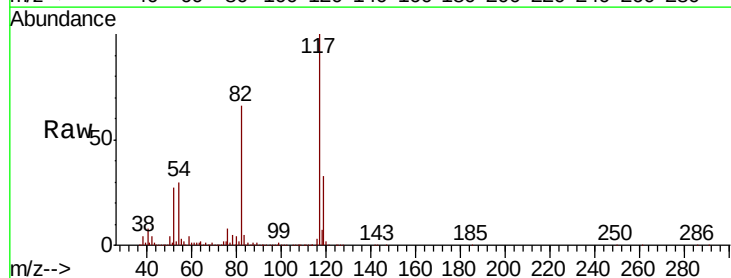
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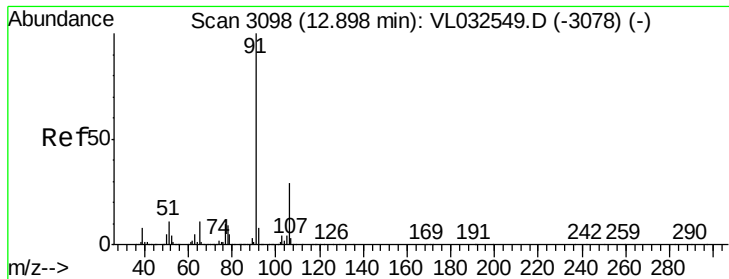
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032605.D
Acq: 11 Oct 2018 15:24

Tgt Ion: 117 Resp: 3436359
Ion Ratio Lower Upper
117 100
82 67.3 53.0 79.6
119 32.4 45.9 68.9#





#58

Ethyl Benzene

Concen: 11.130 ppbv

RT: 12.90 min Scan# 3098

Delta R.T. -0.02 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 91 Resp: 4639404

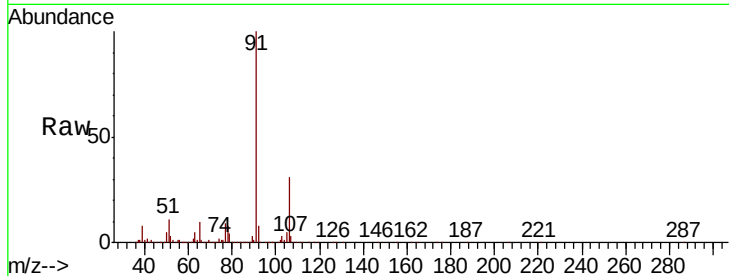
Ion Ratio Lower Upper

91 100

106 30.7 24.8 37.2

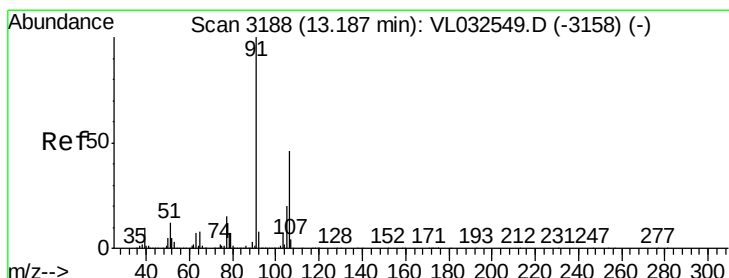
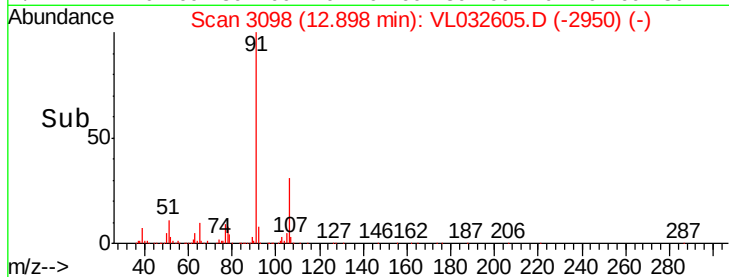
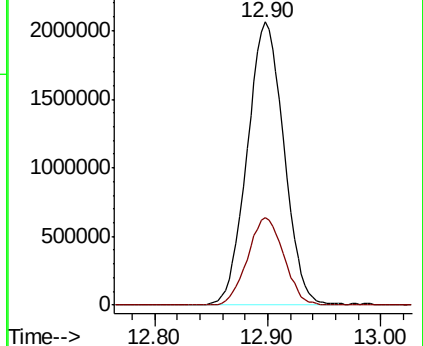
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 34.309 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. -0.05 min

Lab File: VL032605.D

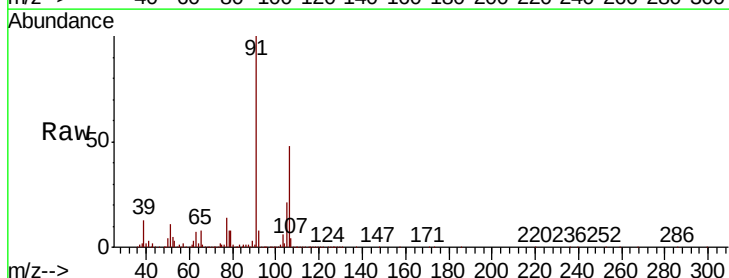
Acq: 11 Oct 2018 15:24

Tgt Ion: 91 Resp: 12724304

Ion Ratio Lower Upper

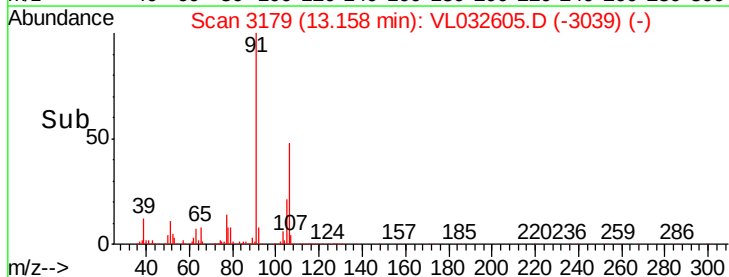
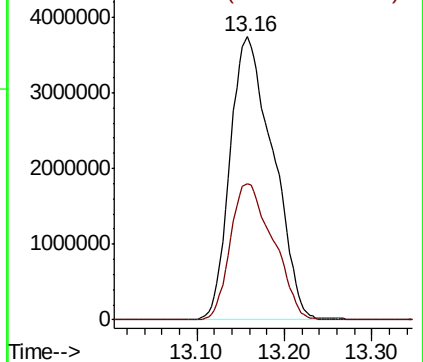
91 100

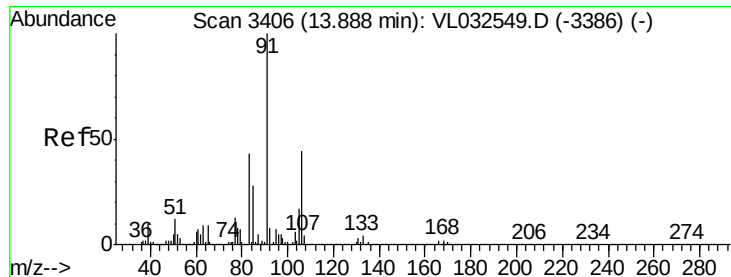
106 48.4 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 10.915 ppbv

RT: 13.88 min Scan# 3404

Delta R.T. -0.03 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 91 Resp: 3941145

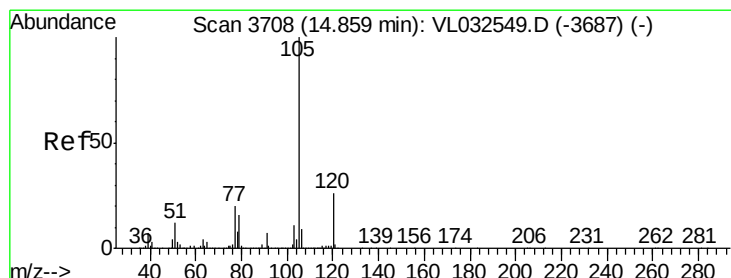
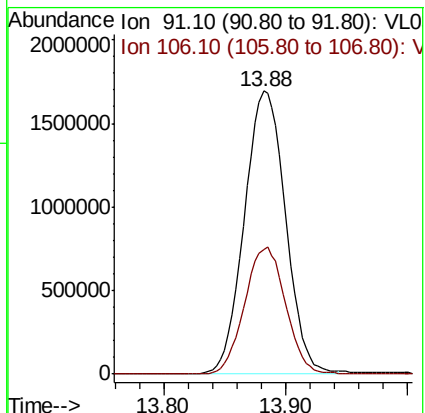
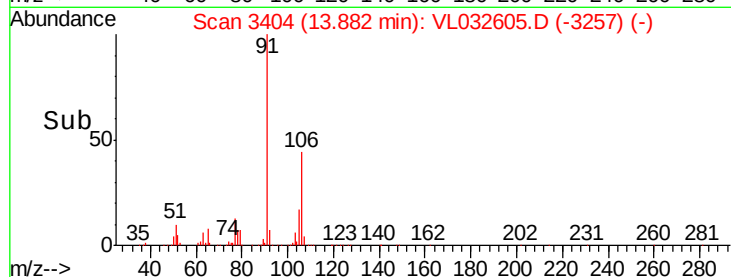
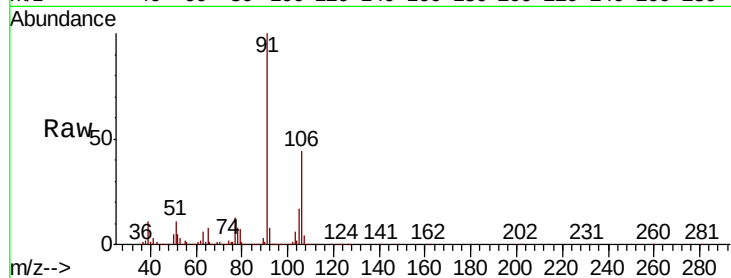
Ion Ratio Lower Upper

91 100

106 45.0 21.9 65.7

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#62

Isopropylbenzene

Concen: 0.144 ppbv

RT: 14.86 min Scan# 3708

Delta R.T. -0.03 min

Lab File: VL032605.D

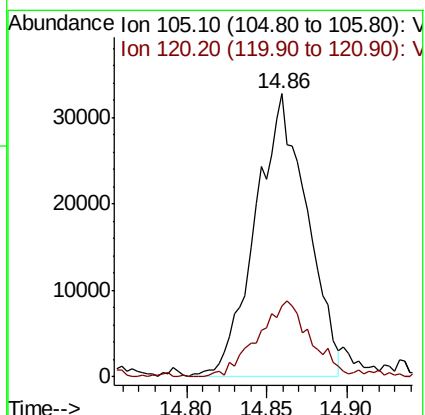
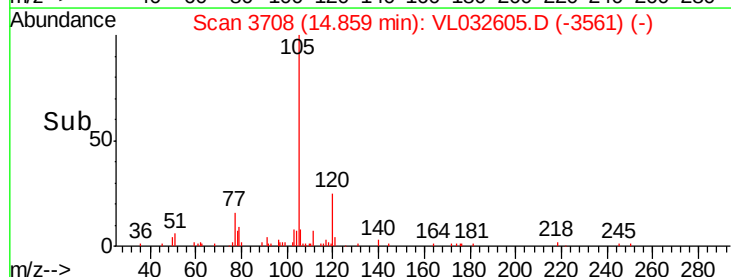
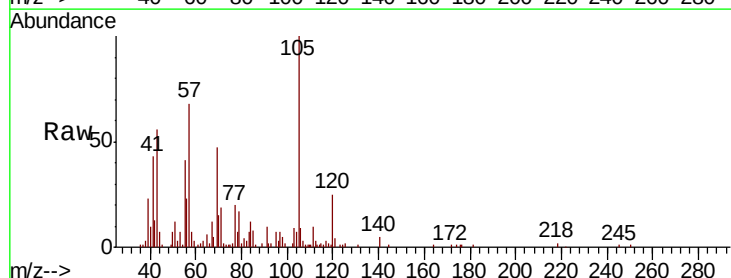
Acq: 11 Oct 2018 15:24

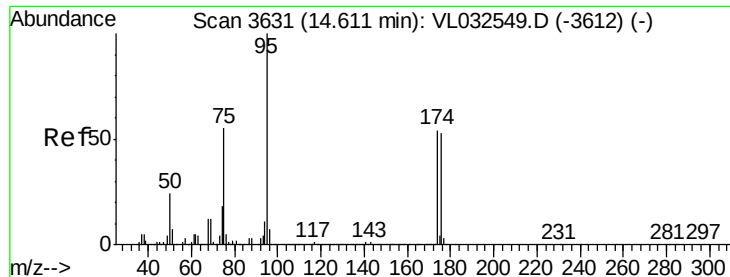
Tgt Ion: 105 Resp: 73315

Ion Ratio Lower Upper

105 100

120 28.9 20.6 31.0





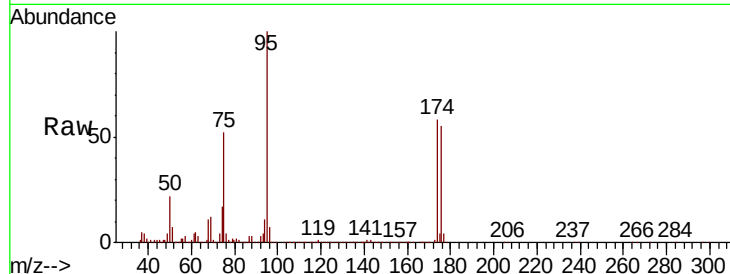
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.459 ppbv
 RT: 14.61 min Scan# 3631
 Delta R.T. -0.02 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

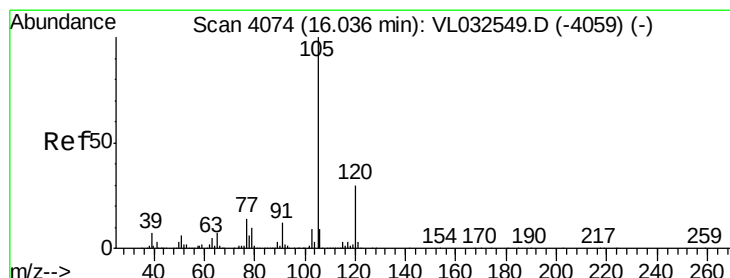
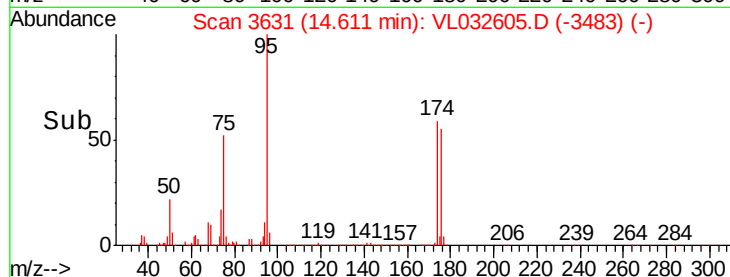
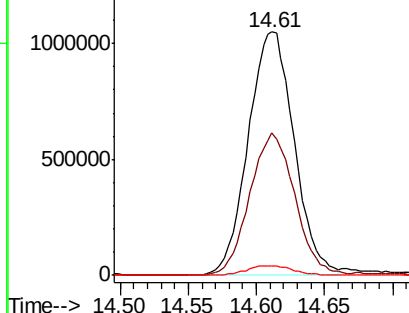
Tot Ion: 95 Resp: 2451288
 Ion Ratio Lower Upper
 95 100
 174 58.9 46.3 69.5
 175 4.2 3.4 5.0

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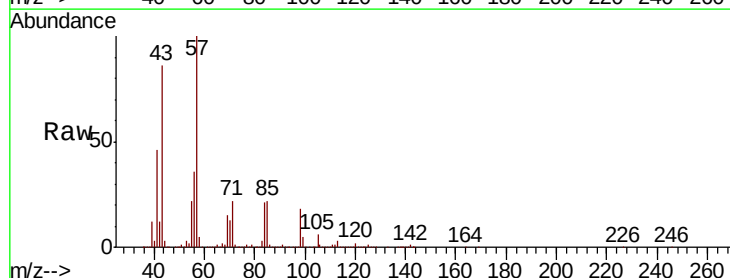


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

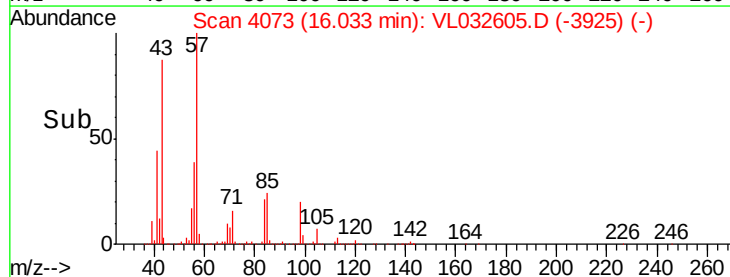
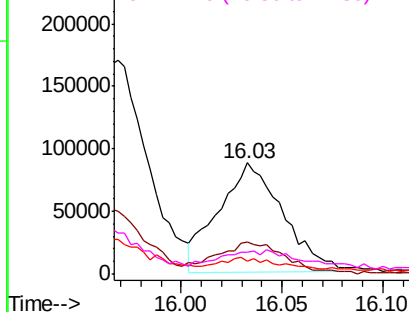


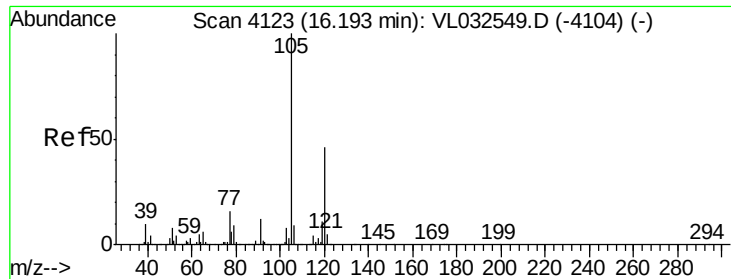
#72
 4-Ethyltoluene
 Concen: 0.495 ppbv
 RT: 16.03 min Scan# 4073
 Delta R.T. -0.02 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Tgt Ion: 105 Resp: 193901
 Ion Ratio Lower Upper
 105 100
 120 33.8 23.5 35.3
 91 16.7 10.2 15.2#
 77 30.1 11.1 16.7#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





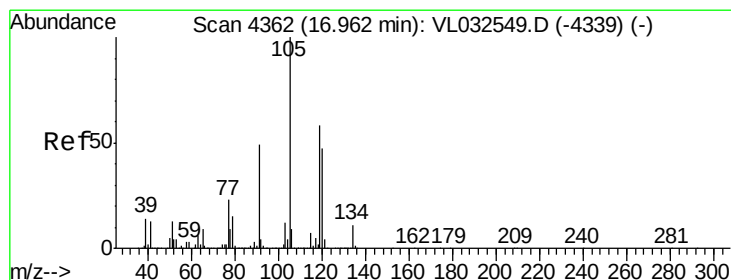
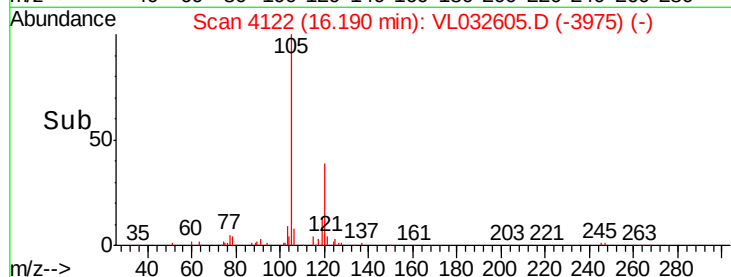
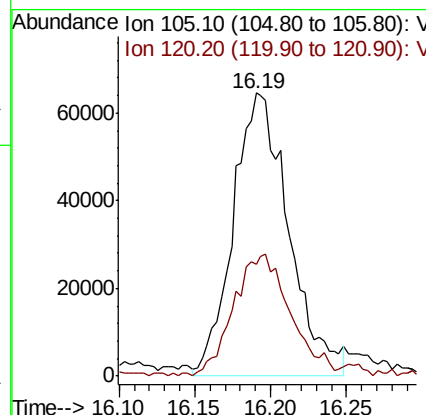
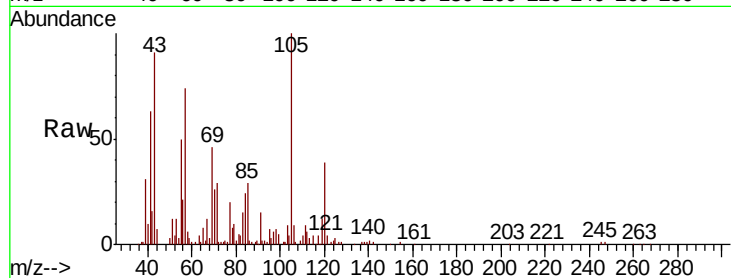
#73
 1,3,5-Trimethylbenzene
 Concen: 0.434 ppbv m
 RT: 16.19 min Scan# 4122
 Delta R.T. -0.03 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion	Ratio	Lower	Upper
105	100		
120	39.3	37.9	56.9

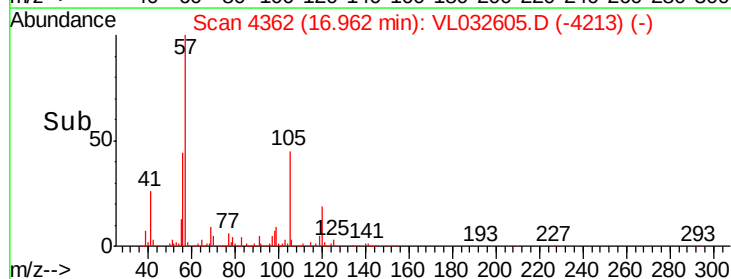
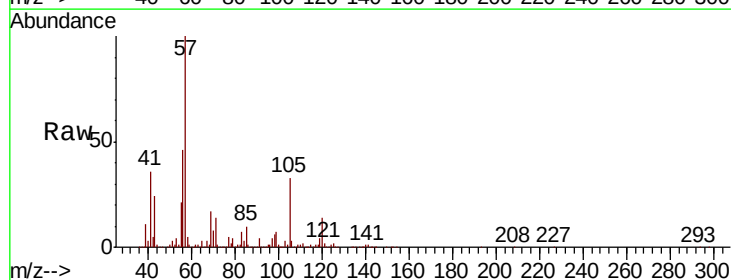
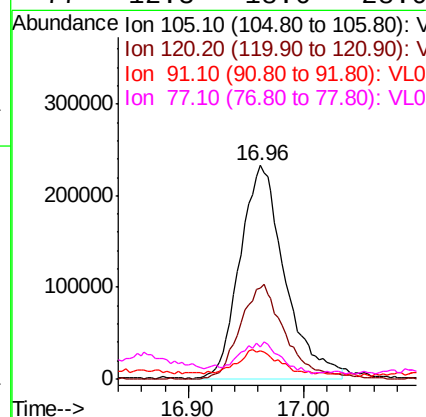
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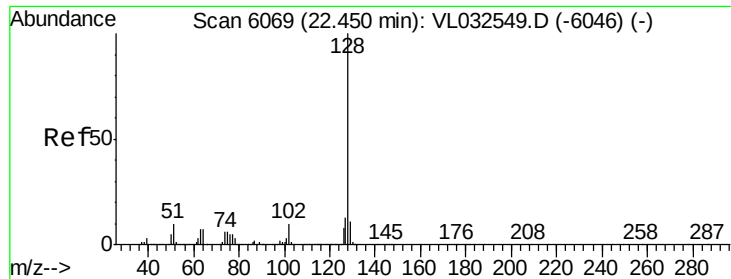
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#74
 1,2,4-Trimethylbenzene
 Concen: 1.520 ppbv
 RT: 16.96 min Scan# 4362
 Delta R.T. -0.02 min
 Lab File: VL032605.D
 Acq: 11 Oct 2018 15:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.3	37.8	56.8
91	10.6	41.4	62.0#
77	12.3	18.6	28.0#





#79

Naphthalene

Concen: 1.848 ppbv m

RT: 22.47 min Scan# 6076

Delta R.T. -0.01 min

Lab File: VL032605.D

Acq: 11 Oct 2018 15:24

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion:	128	Resp:	546462
Ion Ratio	Lower	Upper	
128	100		
127	25.0	10.2	15.2#
129	9.7	8.5	12.7

Manual Integrations
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