

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032262.D
 Acq On : 18 Jul 2018 11:16
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:06 PM

Quant Time: Jul 18 12:56:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 2018
 QLast Update : Wed Jul 18 09:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1773718	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3812050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4182192	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3291464	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	162481	0.64	ppbv	96
3) Chlorodifluoromethane	3.06	51	107094	0.49	ppbv	99
4) Chloromethane	3.22	50	61161	0.49	ppbv	98
5) Vinyl Chloride	3.35	62	57353	0.47	ppbv	91
6) Bromomethane	3.57	94	31089	0.46	ppbv	89
7) Chloroethane	3.66	64	19424	0.46	ppbv #	88
8) Dichlorotetrafluoroethane	3.27	85	133169	0.47	ppbv	98
9) Propene	3.08	41	40161	0.43	ppbv	99
10) Heptane	8.33	43	118386m	0.45	ppbv	
11) Trichlorofluoromethane	4.07	101	123482	0.51	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	79270	0.51	ppbv	100
13) Ethanol	3.72	45	14455m	0.54	ppbv	
14) Bromoethene	3.85	108	33142	0.45	ppbv #	98
15) Acetone	3.98	43	97063	0.47	ppbv	96
16) 1,3-Butadiene	3.42	39	42148m	0.41	ppbv	
17) tert-Butyl alcohol	4.45	59	30762m	0.32	ppbv	
18) 1,1-Dichloroethene	4.41	96	34855	0.48	ppbv	91
19) Isopropyl Alcohol	4.11	45	63899	0.47	ppbv #	94
20) Methylene Chloride	4.48	84	39569	0.57	ppbv	92
21) Allyl Chloride	4.54	41	59457	0.49	ppbv	95
22) trans-1,2-Dichloroethene	5.04	96	35669	0.52	ppbv	91
23) Vinyl Acetate	5.23	43	152190	0.44	ppbv #	96
24) 1,1-Dichloroethane	5.16	63	121817	0.51	ppbv	98
25) Ethyl Acetate	5.85	43	208008	0.51	ppbv	99
26) Hexane	5.85	57	91457	0.49	ppbv	95
27) Carbon Disulfide	4.69	76	70509	0.42	ppbv #	77
28) Methyl tert-Butyl Ether	5.20	73	125527	0.43	ppbv	99
29) Chloroform	5.92	83	139264	0.49	ppbv	98
30) Cyclohexane	7.33	84	72642m	0.44	ppbv	
31) cis-1,2-Dichloroethene	5.71	61	80886	0.44	ppbv	96
32) 1,1,1-Trichloroethane	6.70	97	135034	0.49	ppbv	98
34) 2-Butanone	5.41	43	128770	0.50	ppbv	98
35) Carbon Tetrachloride	7.22	117	131260	0.51	ppbv	92
36) Benzene	7.09	78	181617	0.48	ppbv	97
37) 1,2-Dichloroethane	6.49	62	113579	0.55	ppbv	100
38) Trichloroethene	8.04	130	58250	0.45	ppbv	90
39) 1,2-Dichloropropane	7.82	63	73517	0.49	ppbv	96
40) 1,4-Dioxane	8.08	88	20244m	0.39	ppbv	
41) Tetrahydrofuran	6.25	42	66008	0.45	ppbv	97
42) Bromodichloromethane	8.00	83	132786	0.45	ppbv	99
43) Methyl Methacrylate	8.22	69	66874m	0.46	ppbv	

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Manual Integrations
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Quant Time: Jul 18 12:56:40 2018
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.07	57	302920m	0.46	ppbv	
45) t-1,3-Dichloropropene	9.50	75	64290m	0.37	ppbv	
46) cis-1,3-Dichloropropene	8.92	75	103552m	0.44	ppbv	
47) 1,1,2-Trichloroethane	9.70	97	78750m	0.47	ppbv	
48) Dibromochloromethane	10.54	129	101652	0.41	ppbv	99
49) Bromoform	13.29	173	90629	0.45	ppbv	97
50) 4-Methyl-2-Pentanone	8.98	43	217345m	0.48	ppbv	
51) 2-Hexanone	10.39	43	126872m	0.34	ppbv	
52) Tetrachloroethene	11.47	164	64760m	0.46	ppbv	
53) Toluene	10.03	91	199154	0.44	ppbv	99
54) 1,2-Dibromoethane	10.85	107	114908	0.46	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.37	131	97942	0.54	ppbv #	1
57) Chlorobenzene	12.39	112	181807	0.51	ppbv #	94
58) Ethyl Benzene	12.95	91	261805	0.43	ppbv #	88
59) m/p-Xylene	13.24	91	503402m	1.00	ppbv	
60) o-Xylene	13.94	91	248716	0.50	ppbv	99
61) Styrene	13.78	104	157974	0.43	ppbv	100
62) Isopropylbenzene	14.92	105	356202	0.51	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.92	83	222225	0.55	ppbv	98
64) n-propylbenzene	15.81	120	87769	0.50	ppbv	83
65) tert-Butylbenzene	16.99	119	306004m	0.53	ppbv	
66) Benzyl Chloride	17.25	91	128843	0.44	ppbv	97
67) sec-Butylbenzene	17.55	105	457237	0.54	ppbv	99
69) p-Isopropyltoluene	17.91	119	341344	0.52	ppbv	99
70) n-Butylbenzene	18.80	91	370064	0.51	ppbv	97
71) 2-Chlorotoluene	15.71	91	270420	0.50	ppbv	98
72) 4-Ethyltoluene	16.09	105	259331	0.47	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.25	105	266868	0.52	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	303677	0.58	ppbv	94
75) 1,3-Dichlorobenzene	17.25	146	176683m	0.56	ppbv	
76) 1,4-Dichlorobenzene	17.40	146	167771	0.54	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	168631m	0.54	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	55900m	0.57	ppbv	
79) Naphthalene	22.53	128	203974	0.58	ppbv	99
80) Naphthalene, 2-methyl-	25.20	142	59497	0.53	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	108934m	0.61	ppbv	

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

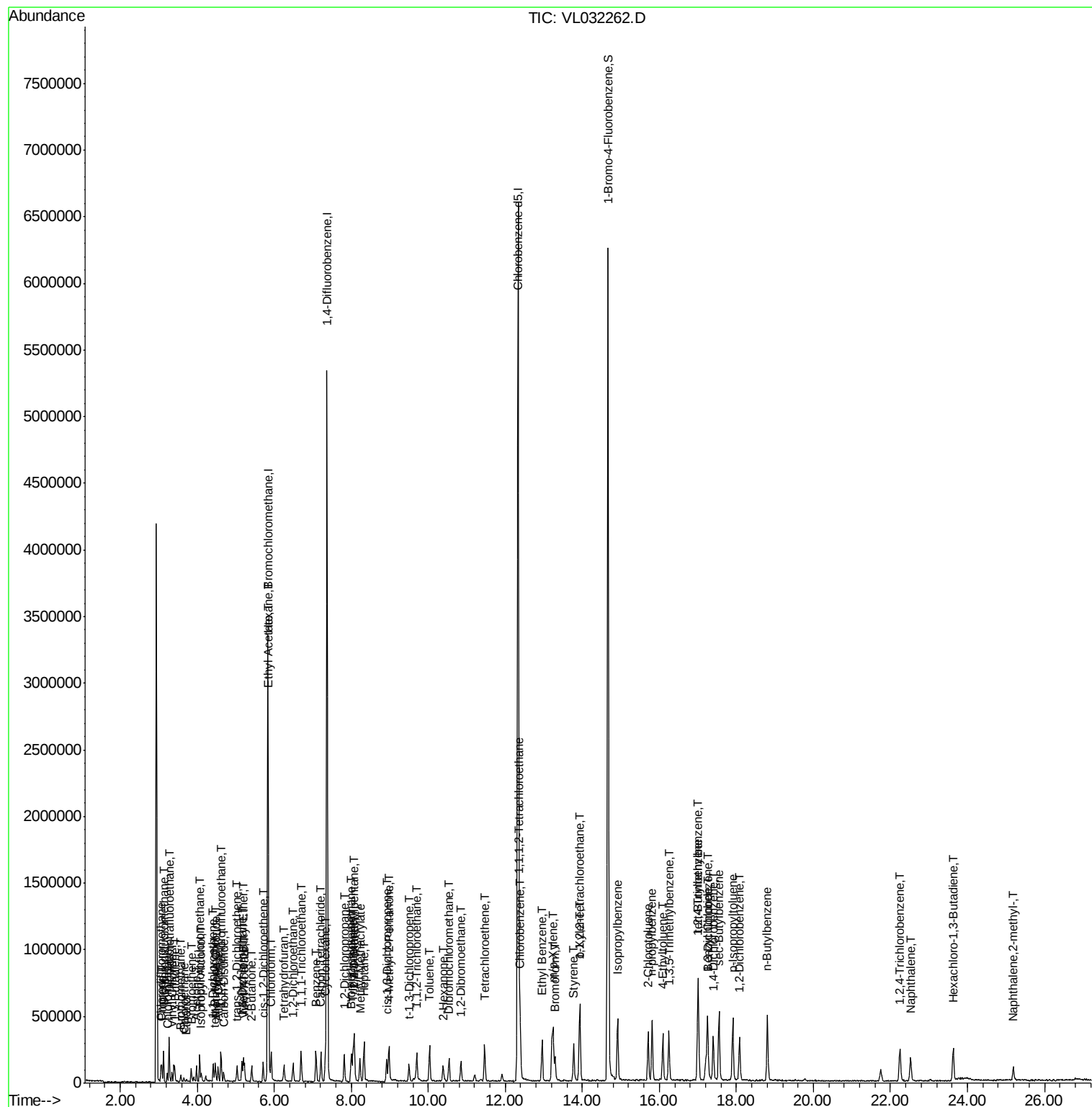
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
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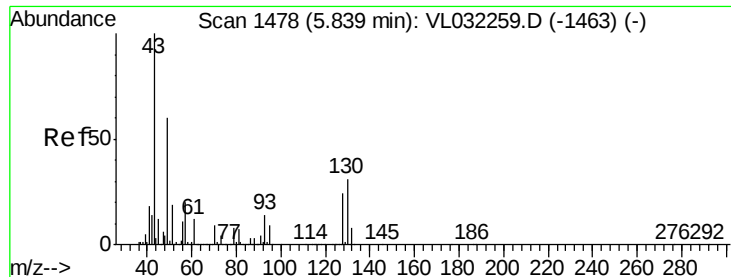
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 18 09:58:24 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1773718

Ion Ratio Lower Upper

49 100

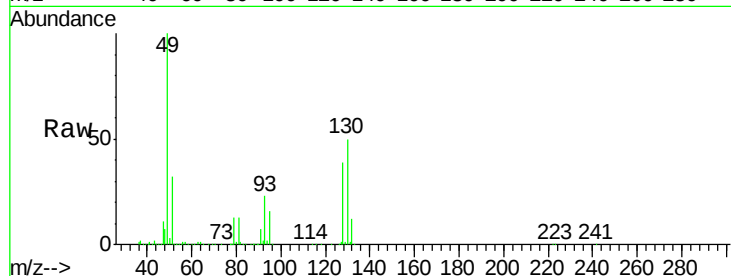
128 40.7 20.1 60.2

130 51.5 25.9 77.6

Manual Integrations
APPROVED

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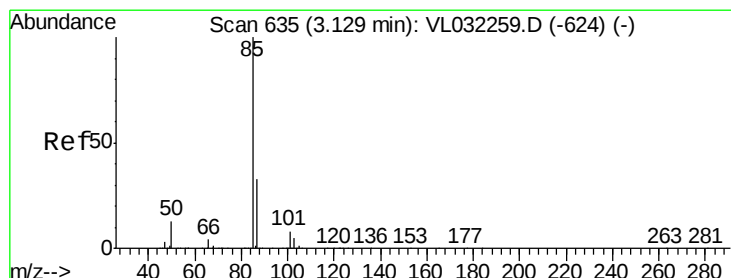
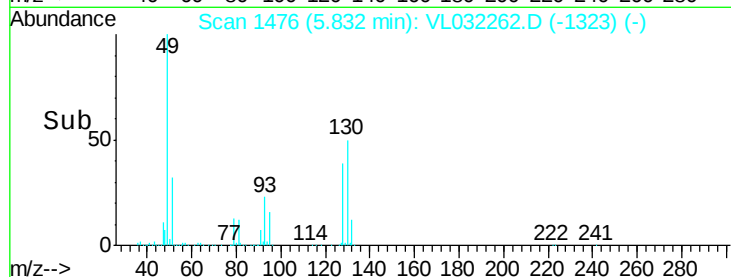
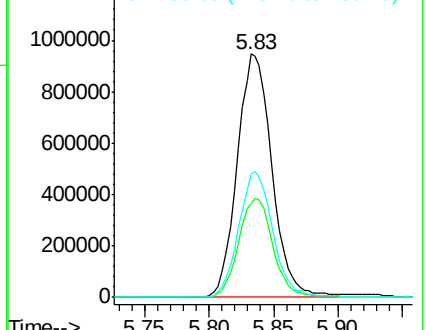
7/20/2018 2:53:06 PM



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: 0.64 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032262.D

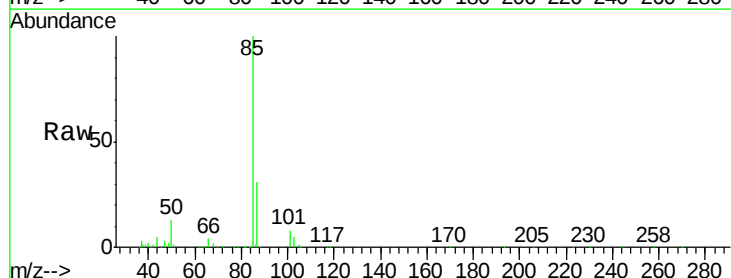
Acq: 18 Jul 2018 11:16

Tgt Ion: 85 Resp: 162481

Ion Ratio Lower Upper

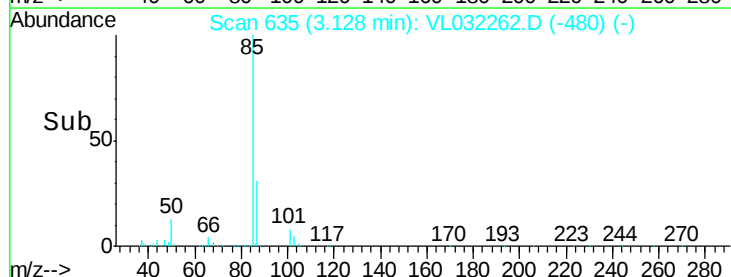
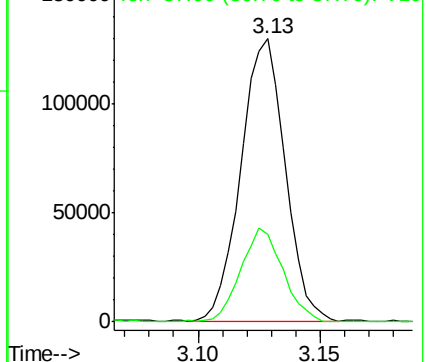
85 100

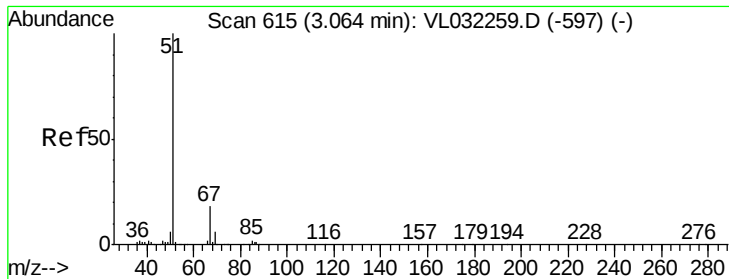
87 30.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.49 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 107094

Ion Ratio Lower Upper

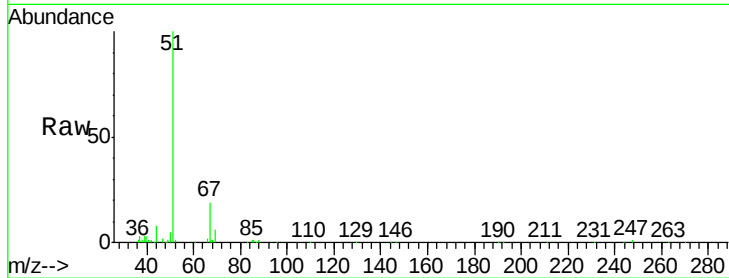
51 100

67 17.3 14.2 21.4

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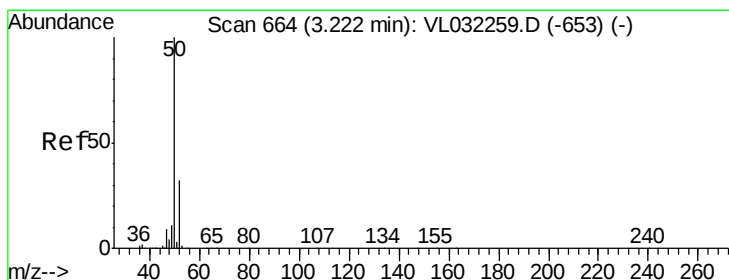
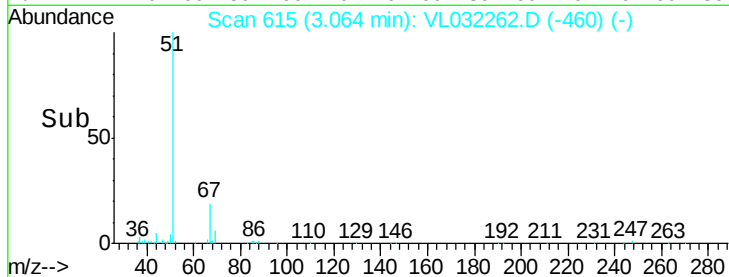
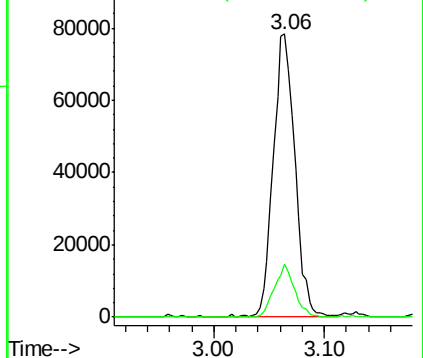
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.49 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032262.D

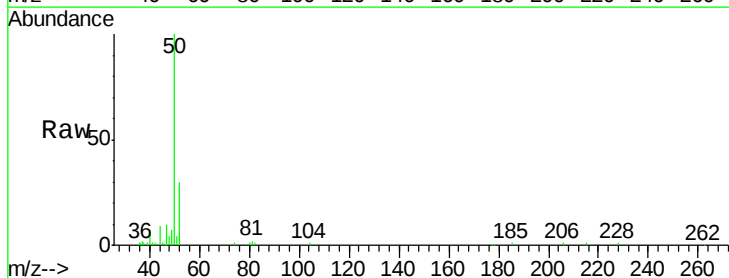
Acq: 18 Jul 2018 11:16

Tgt Ion: 50 Resp: 61161

Ion Ratio Lower Upper

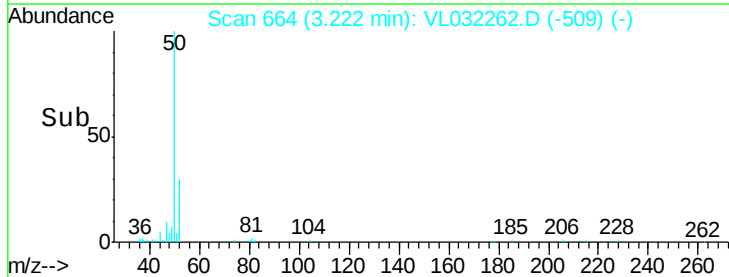
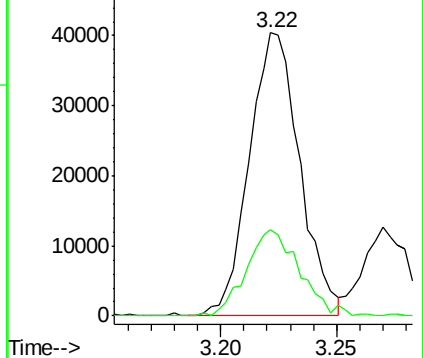
50 100

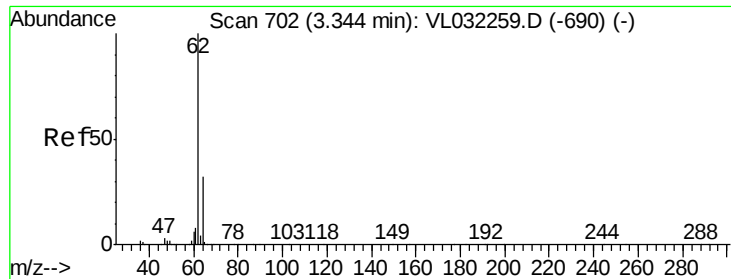
52 30.4 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.47 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 57353

Ion Ratio Lower Upper

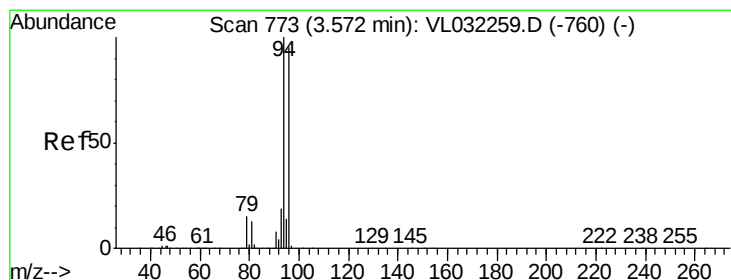
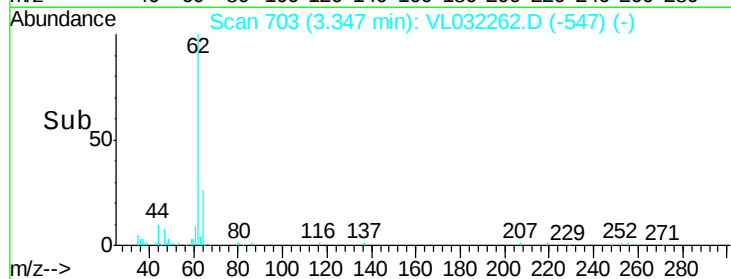
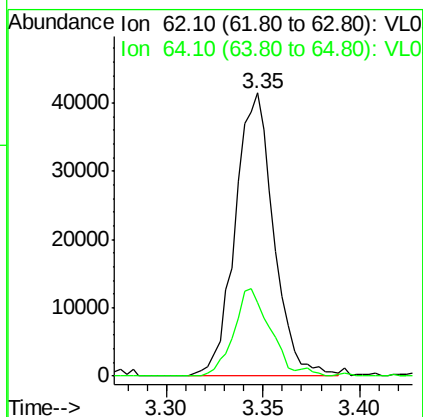
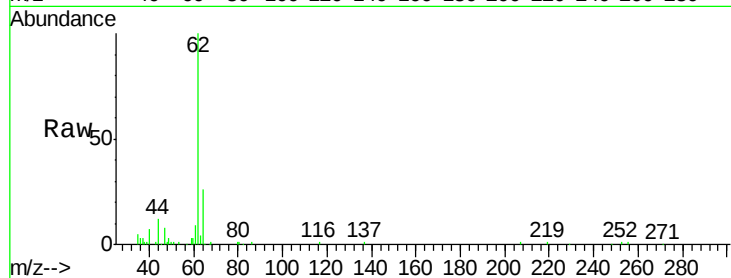
62 100

64 26.4 25.3 37.9

Manual Integrations
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#6

Bromomethane

Concen: 0.46 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VL032262.D

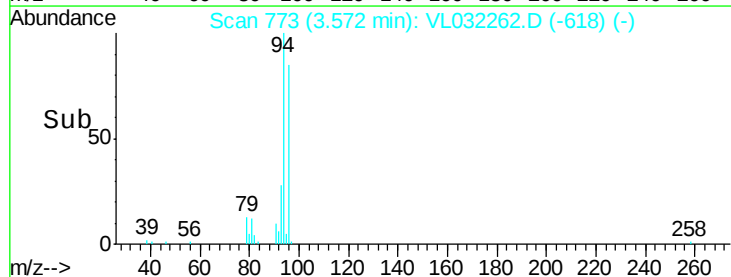
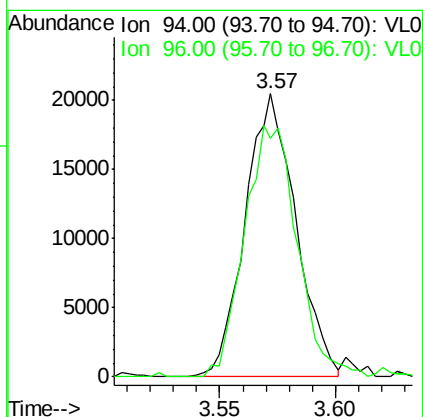
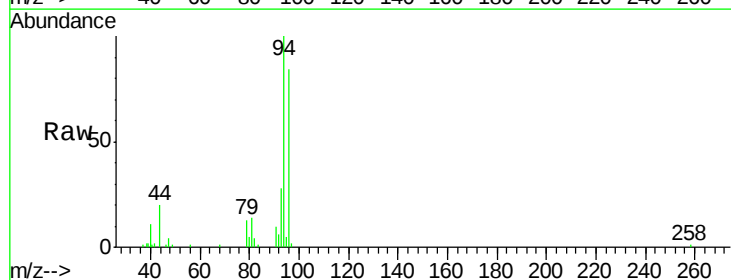
Acq: 18 Jul 2018 11:16

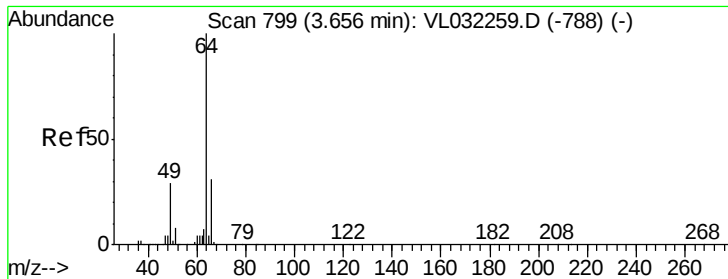
Tgt Ion: 94 Resp: 31089

Ion Ratio Lower Upper

94 100

96 84.1 76.1 114.1





#7

Chloroethane

Concen: 0.46 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 19424

Ion Ratio Lower Upper

64 100

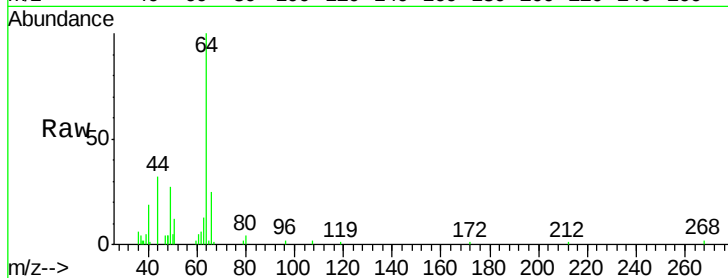
66 24.4 25.0 37.4#

Manual Integrations

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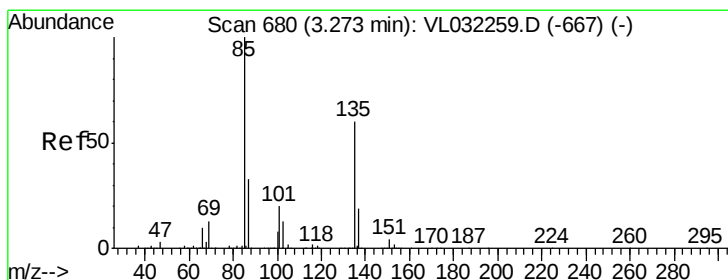
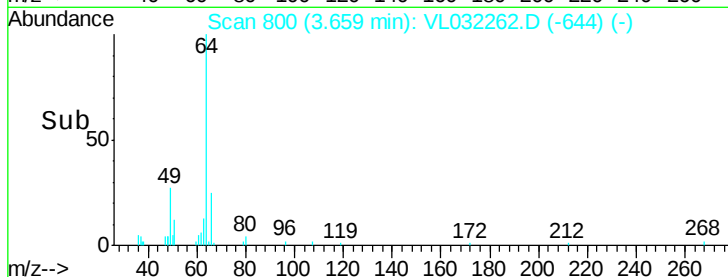
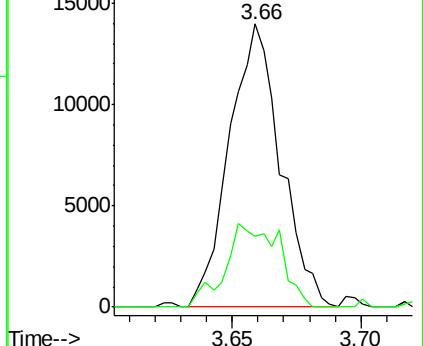
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.47 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032262.D

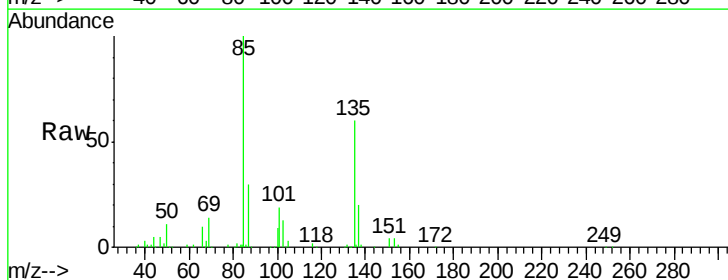
Acq: 18 Jul 2018 11:16

Tgt Ion: 85 Resp: 133169

Ion Ratio Lower Upper

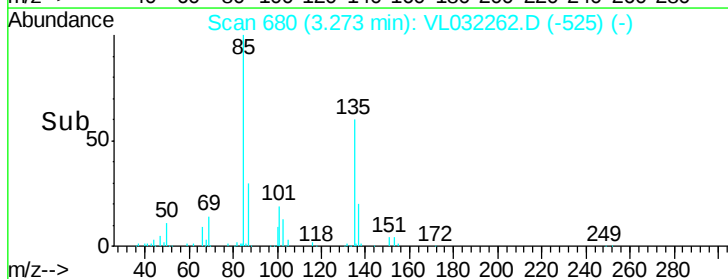
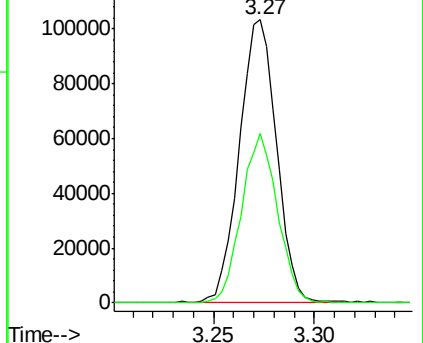
85 100

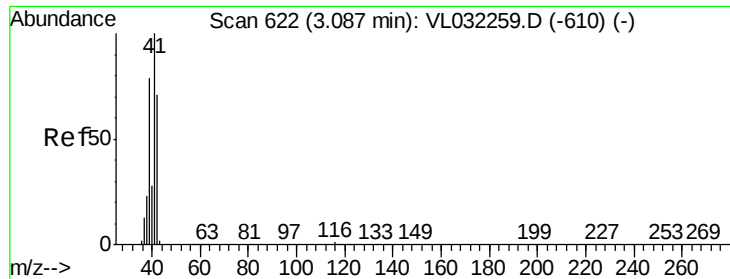
135 58.4 47.8 71.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.43 ppbv

RT: 3.08 min Scan# 621

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 40161

Ion Ratio Lower Upper

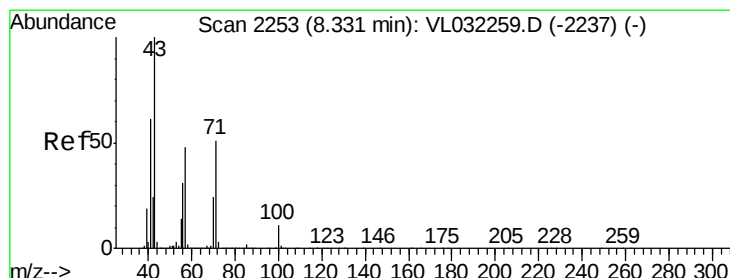
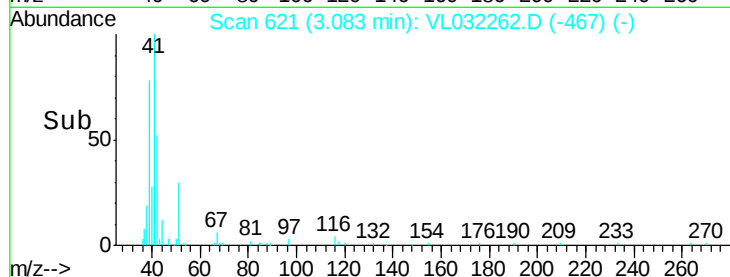
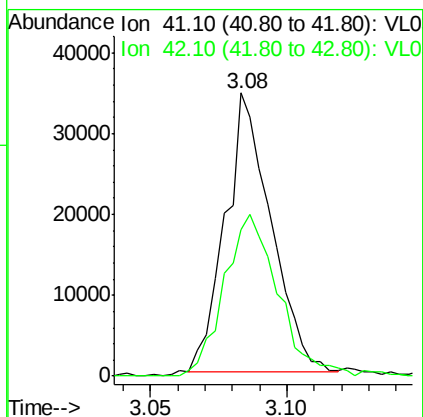
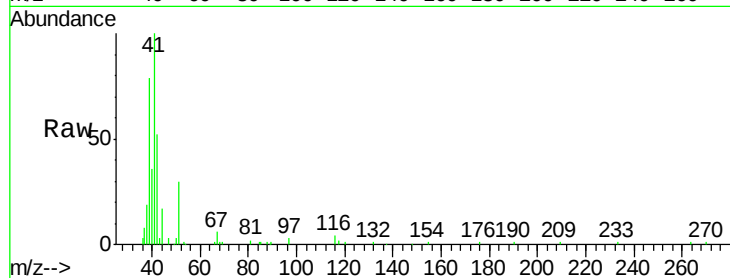
41 100

42 69.1 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 0.45 ppbv m

RT: 8.33 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VL032262.D

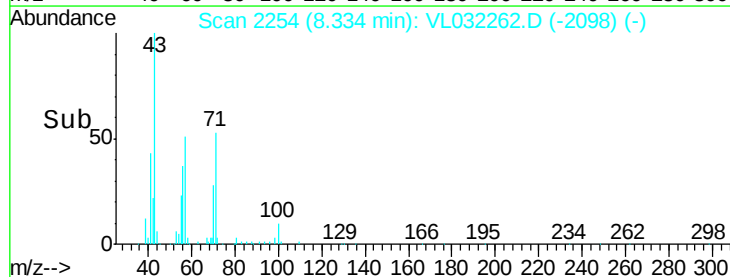
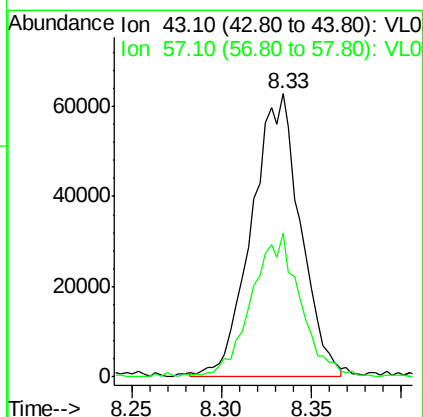
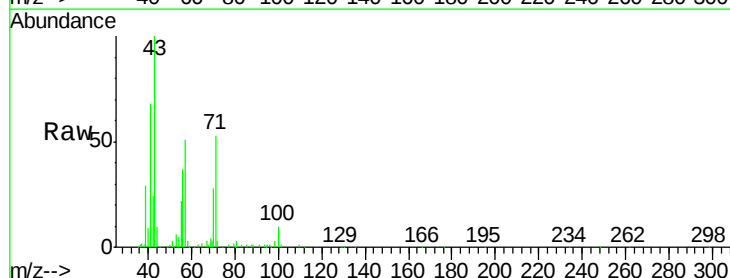
Acq: 18 Jul 2018 11:16

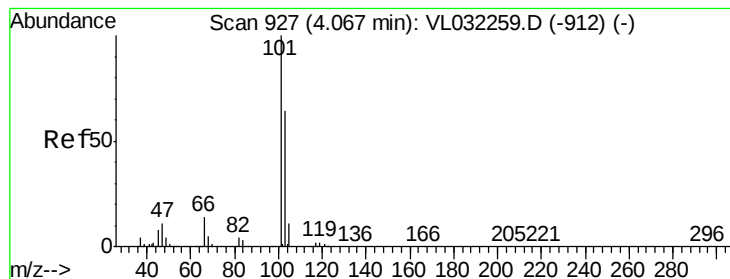
Tgt Ion: 43 Resp: 118386

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.51 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 123482

Ion Ratio Lower Upper

101 100

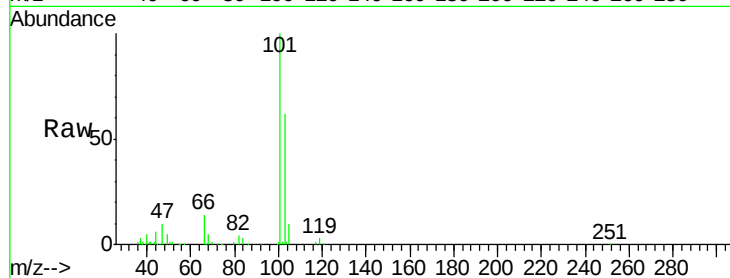
103 62.3 51.5 77.3

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.07

80000

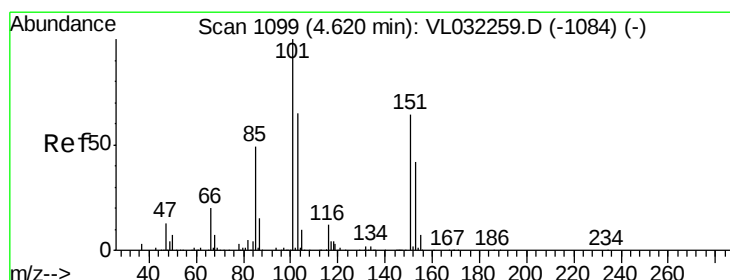
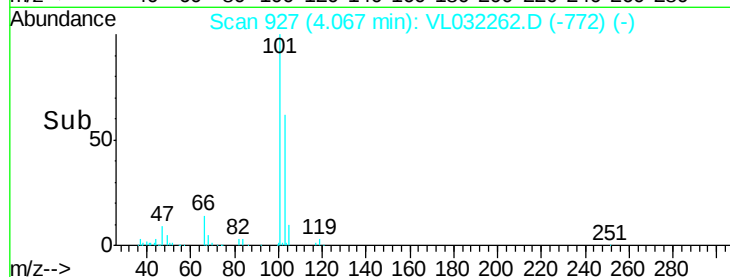
60000

40000

20000

0

Time--> 4.00 4.05 4.10



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.51 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VL032262.D

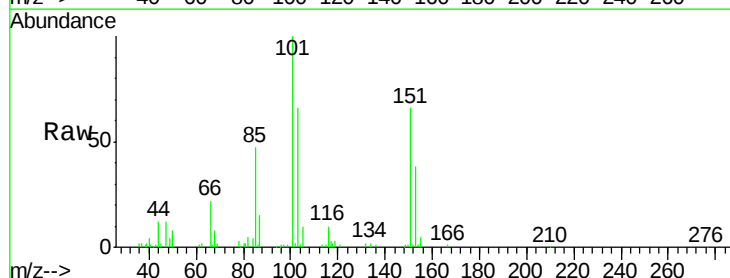
Acq: 18 Jul 2018 11:16

Tgt Ion:101 Resp: 79270

Ion Ratio Lower Upper

101 100

151 63.8 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.62

50000

40000

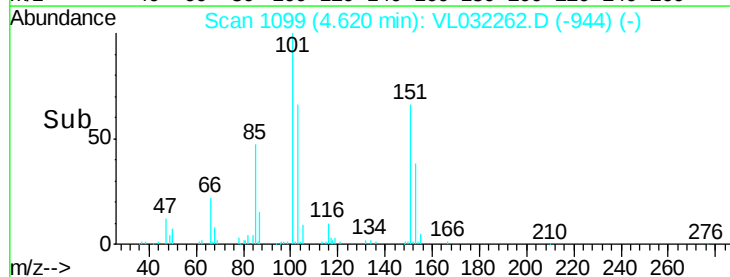
30000

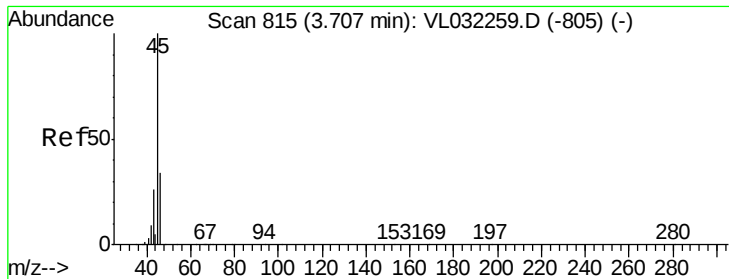
20000

10000

0

Time--> 4.55 4.60 4.65





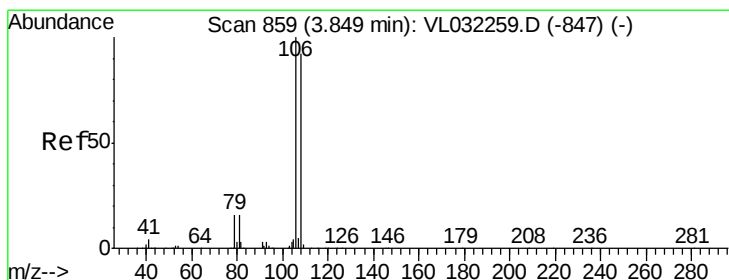
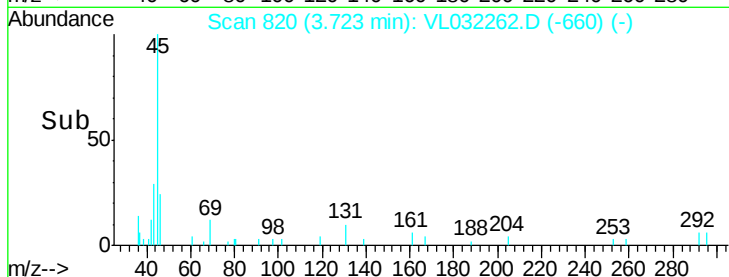
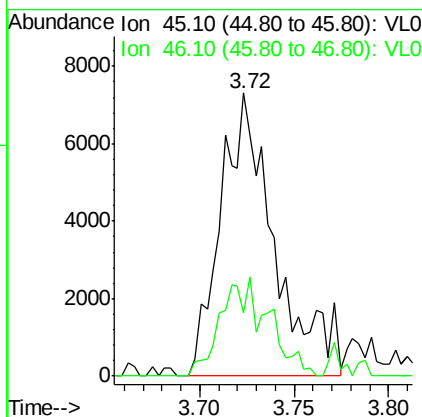
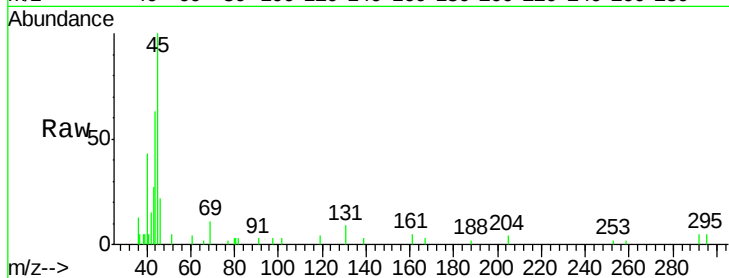
#13
Ethanol
Concen: 0.54 ppbv m
RT: 3.72 min Scan# 820
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.2	60.8#

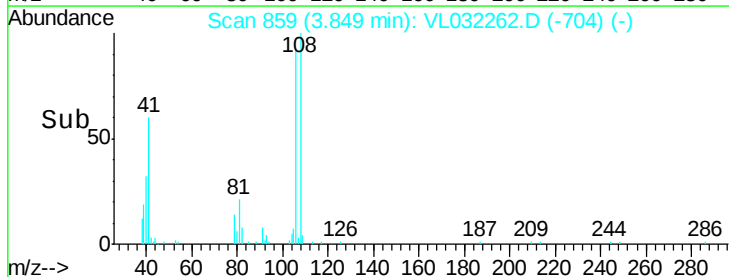
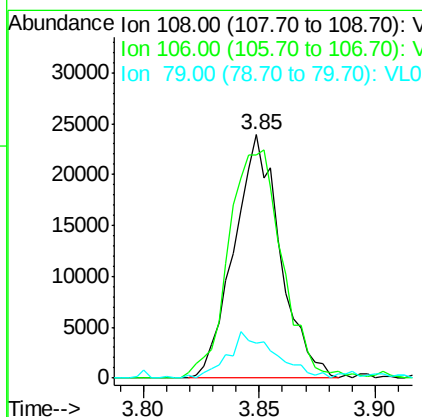
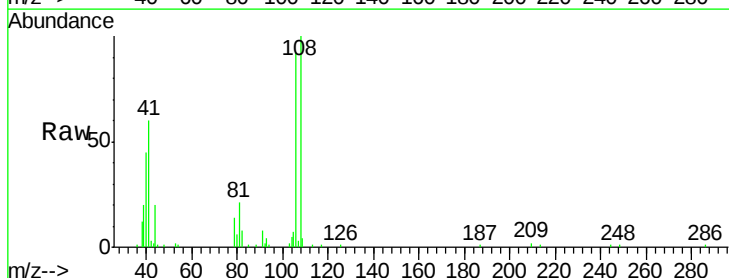
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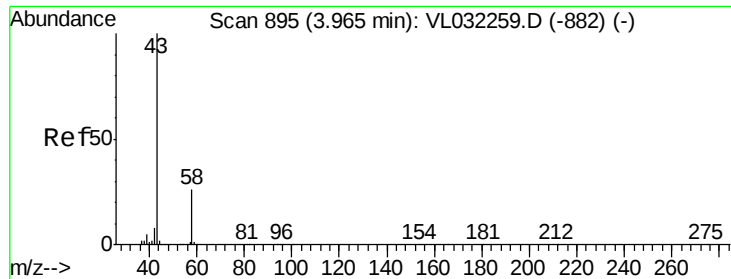
MMDadoda
7/20/2018 2:53:06 PM



#14
Bromoethene
Concen: 0.45 ppbv
RT: 3.85 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
108	100		
106	109.2	86.2	129.4
79	21.1	14.0	21.0#





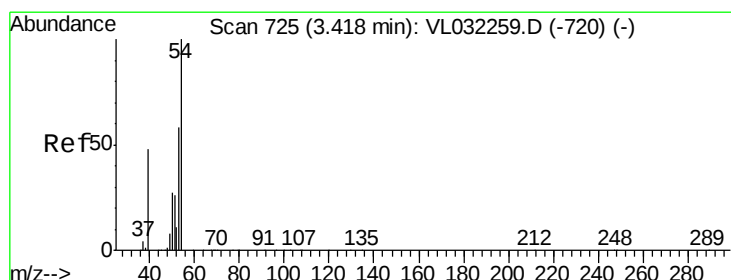
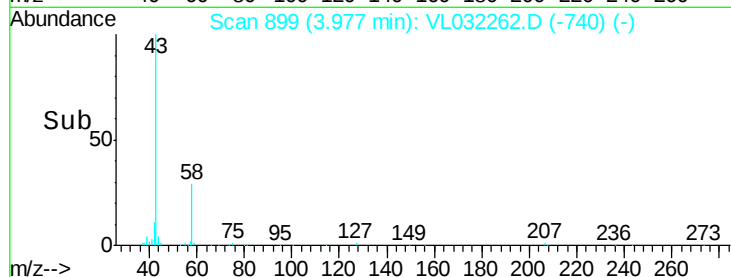
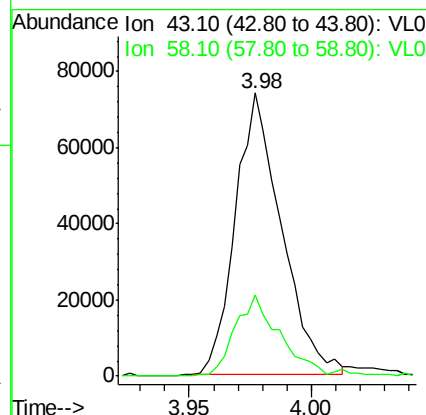
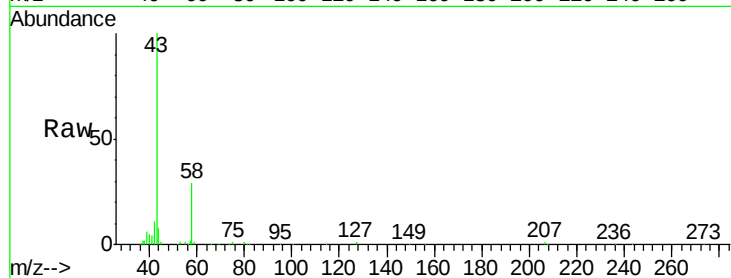
#15
Acetone
Concen: 0.47 ppbv
RT: 3.98 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 97063
Ion Ratio Lower Upper
43 100
58 29.2 21.8 32.6

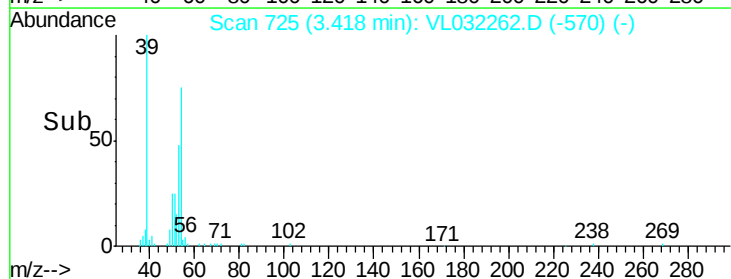
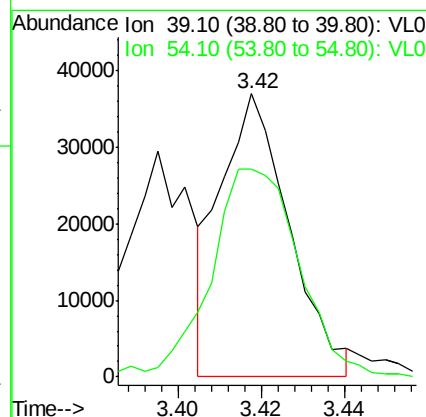
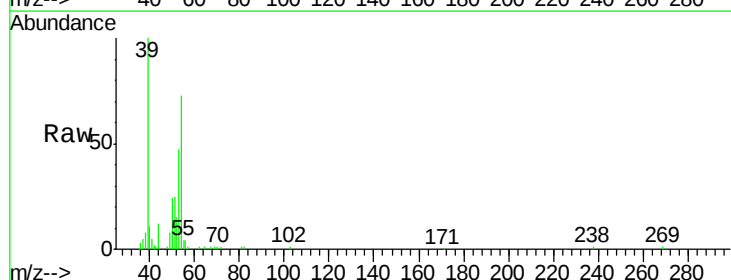
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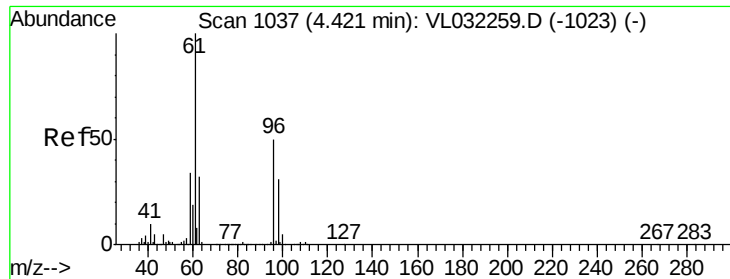
MMDadoda
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#16
1,3-Butadiene
Concen: 0.41 ppbv m
RT: 3.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion: 39 Resp: 42148
Ion Ratio Lower Upper
39 100
54 95.7 70.6 105.8





#17

tert-Butyl alcohol

Concen: 0.32 ppbv m

RT: 4.45 min Scan# 1046

Delta R.T. 0.03 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 30762

Ion Ratio Lower Upper

59 100

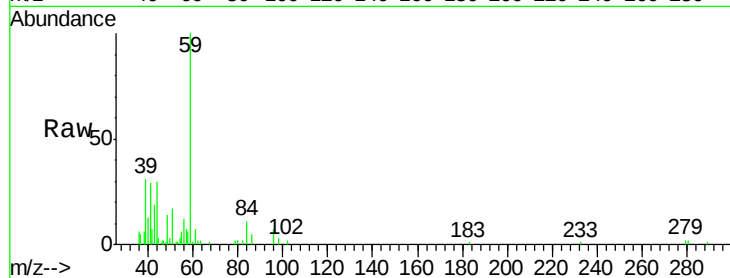
57 0.0 8.2 12.4#

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.45

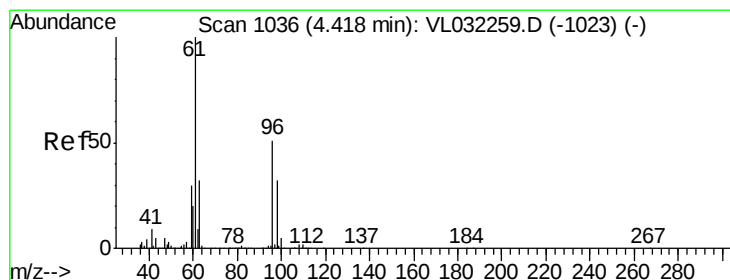
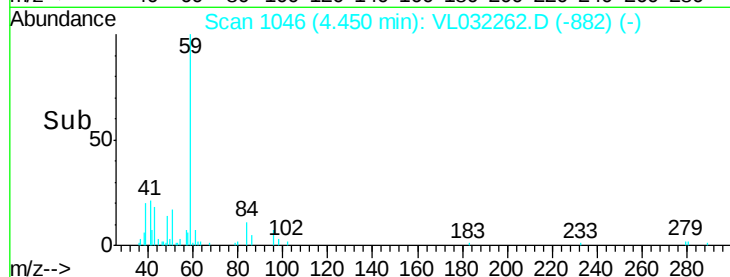
15000

10000

5000

0

Time--> 4.30 4.40 4.50 4.60



#18

1,1-Dichloroethene

Concen: 0.48 ppbv

RT: 4.41 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

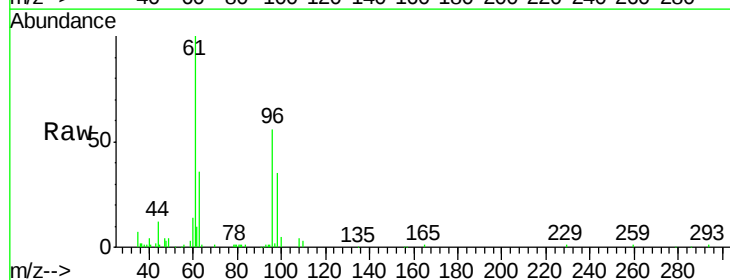
Tgt Ion: 96 Resp: 34855

Ion Ratio Lower Upper

96 100

61 179.9 157.2 235.8

98 62.1 50.1 75.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

60000

50000

40000

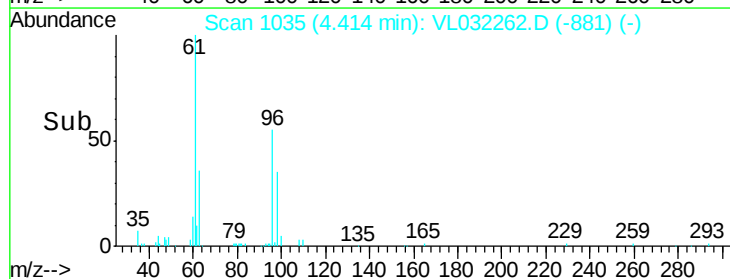
30000

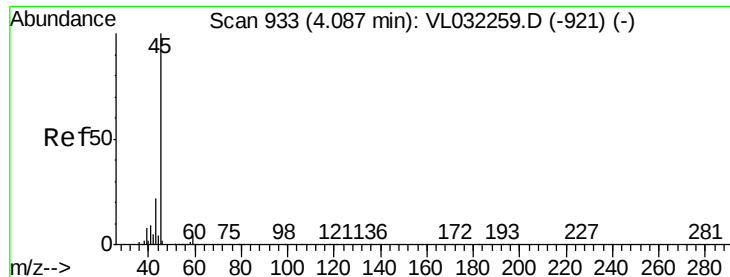
20000

10000

0

Time--> 4.35 4.40 4.45





#19

Isopropyl Alcohol

Concen: 0.47 ppbv

RT: 4.11 min Scan# 939

Delta R.T. 0.02 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 63899

Ion Ratio Lower Upper

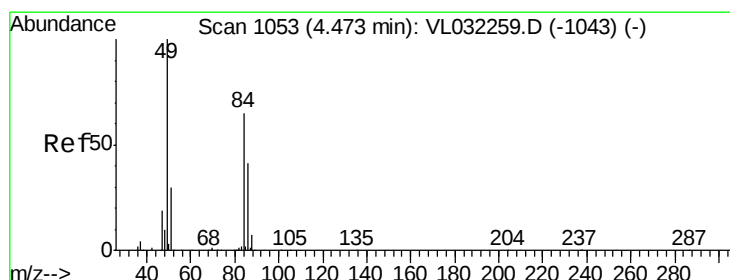
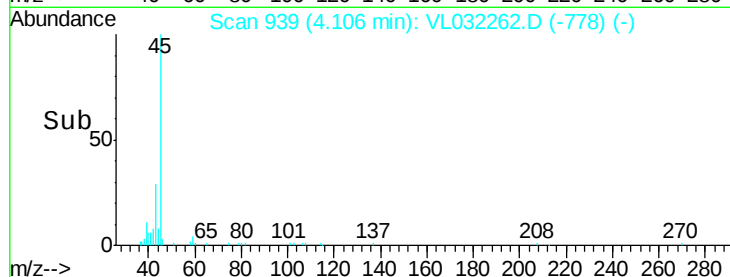
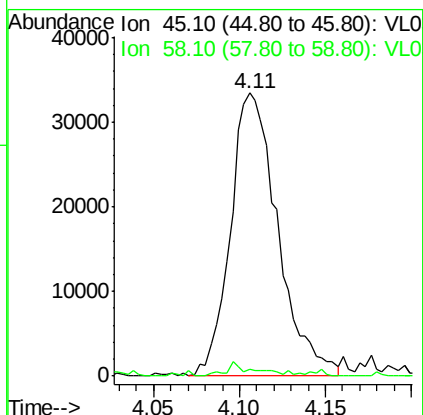
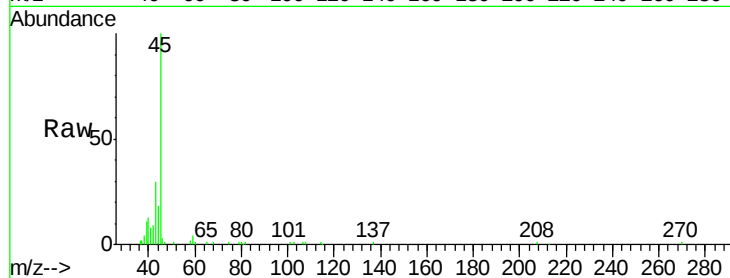
45 100

58 4.1 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.57 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 84 Resp: 39569

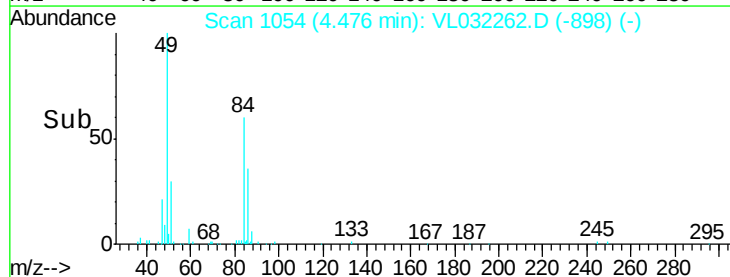
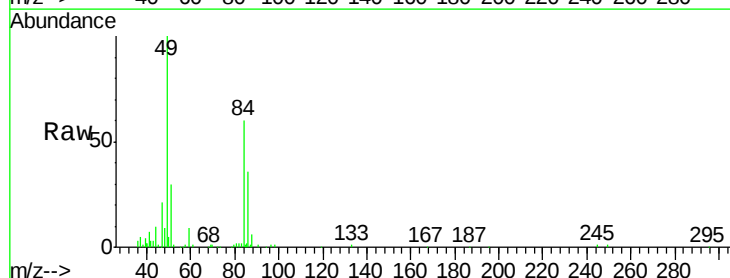
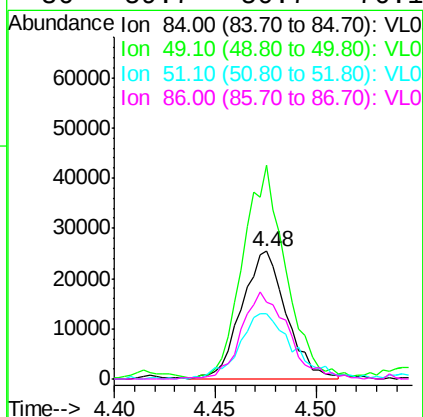
Ion Ratio Lower Upper

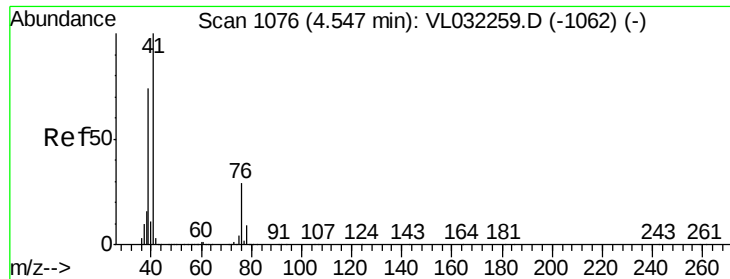
84 100

49 166.3 122.4 183.6

51 50.8 36.8 55.2

86 59.7 50.7 76.1





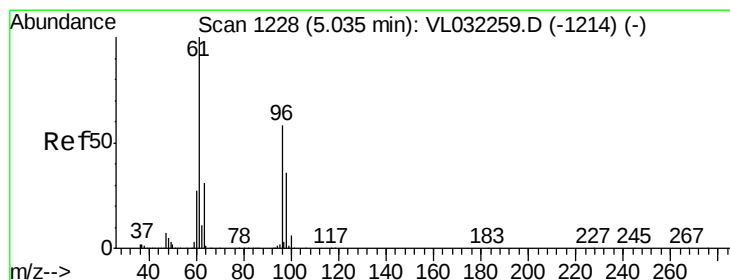
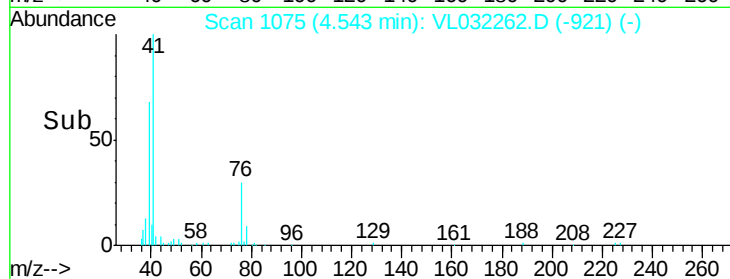
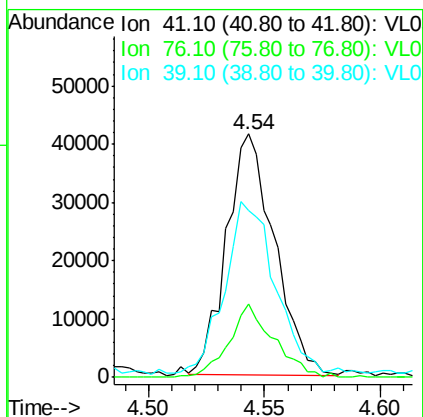
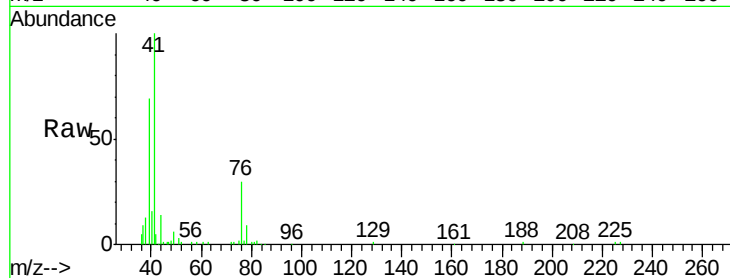
#21
Allvl Chloride
Concen: 0.49 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.3	23.0	34.6
39	80.7	60.2	90.4

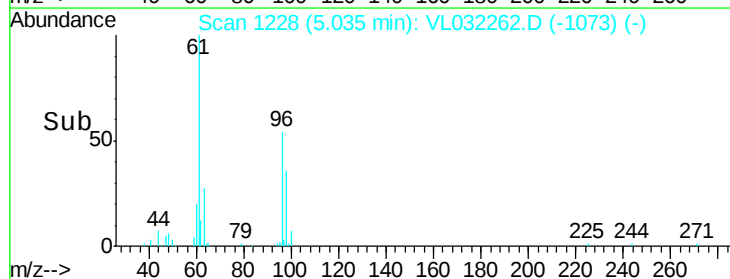
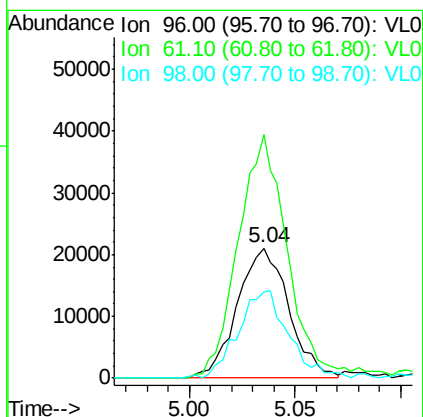
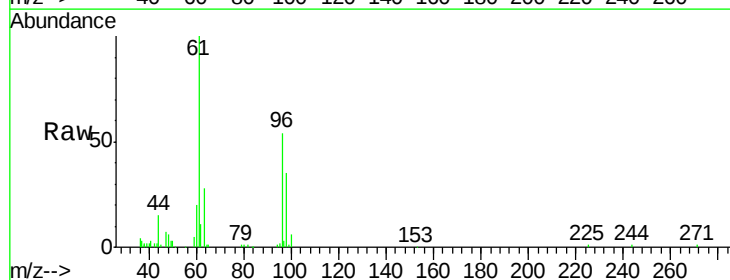
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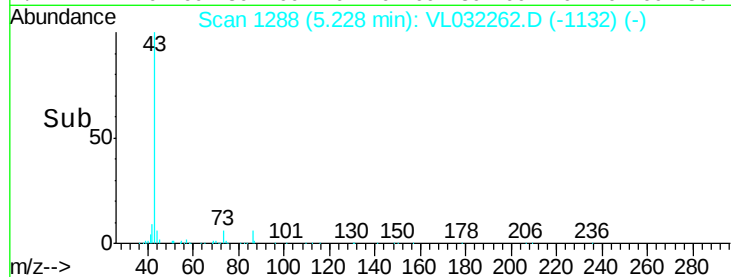
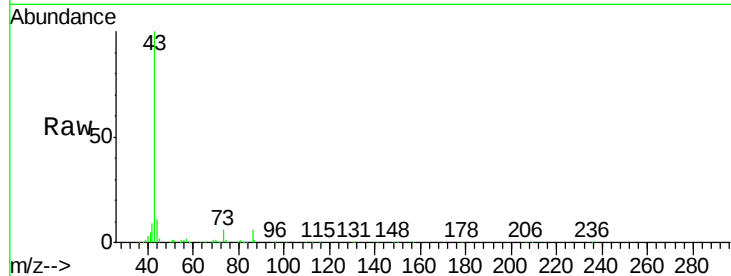
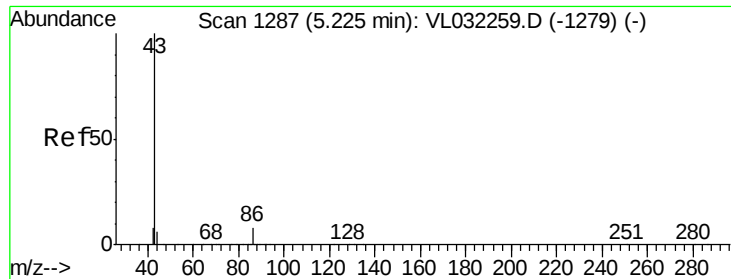
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.52 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	186.8	137.4	206.0
98	64.8	49.6	74.4





#23

Vinyl Acetate

Concen: 0.44 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tot Ion	43	Resp	152190
Ion Ratio	Lower	Upper	
43	100		
86	6.3	5.9	8.9
42	8.2	7.3	10.9
44	7.8	4.4	6.6#

Instrument :

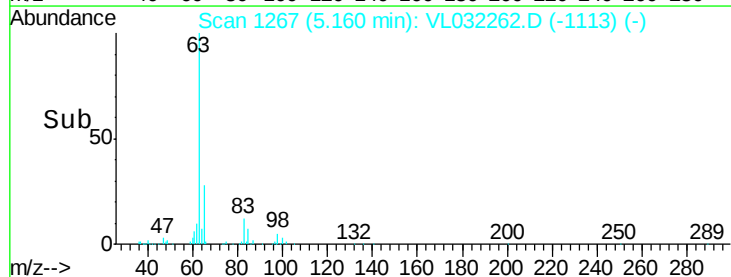
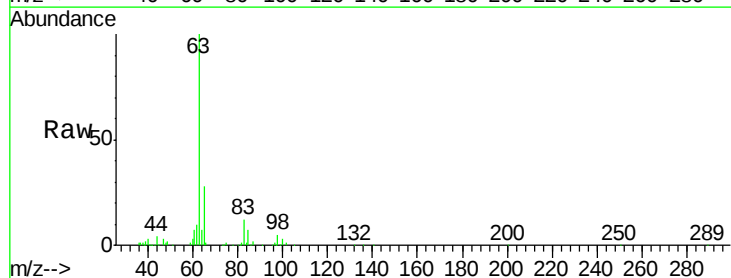
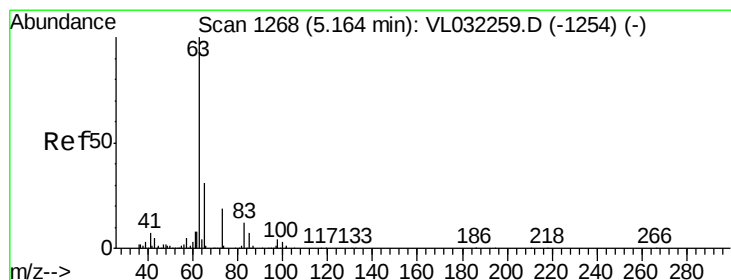
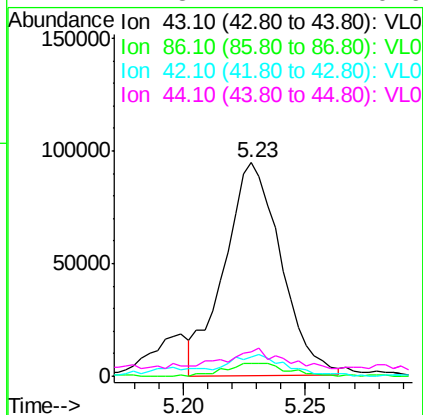
MSVOA_L

ClientSampleId :

VSTDIC0.5

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#24

1,1-Dichloroethane

Concen: 0.51 ppbv

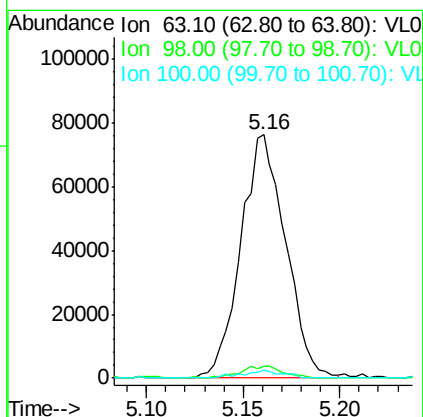
RT: 5.16 min Scan# 1267

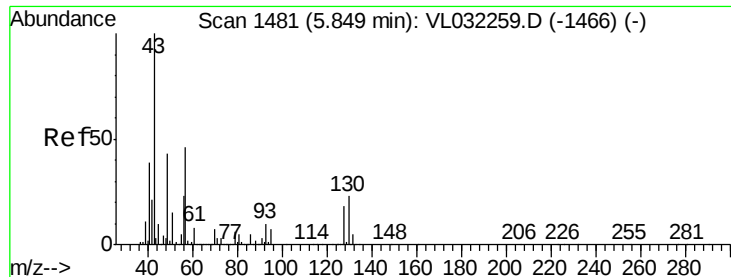
Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion	63	Resp	121817
Ion Ratio	Lower	Upper	
63	100		
98	5.1	2.1	6.3
100	3.3	1.3	3.9





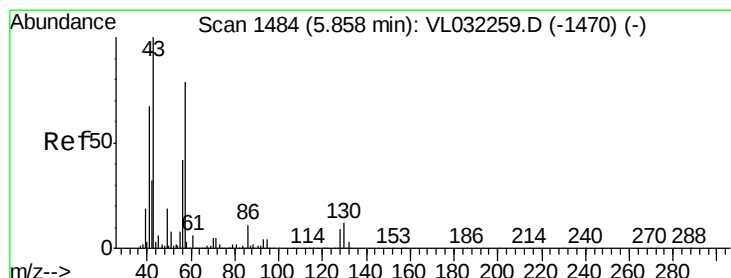
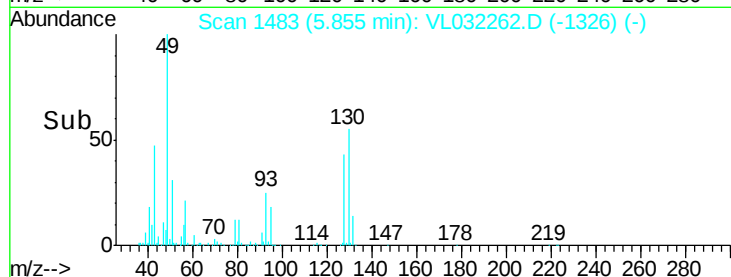
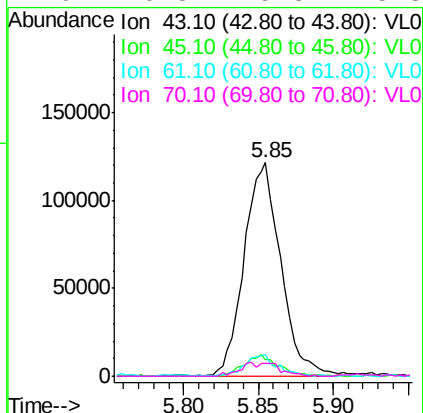
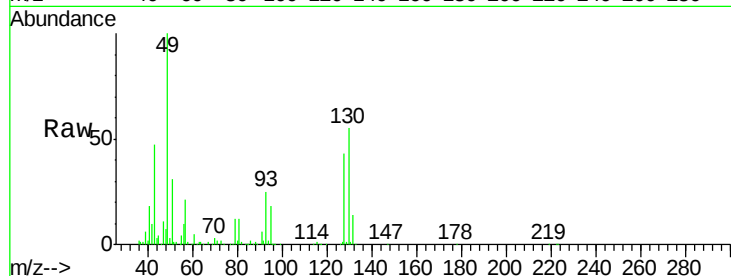
#25
Ethyl Acetate
Concen: 0.51 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
45	9.4		7.9	11.9
61	9.2		7.6	11.4
70	6.8		5.8	8.8

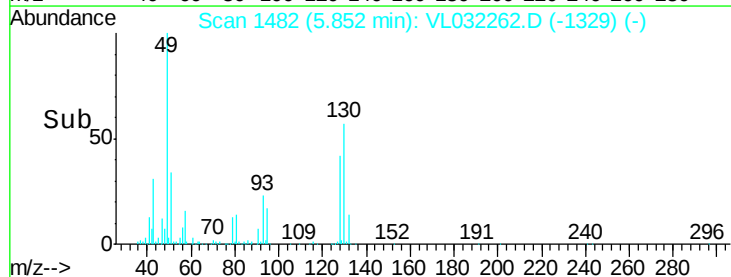
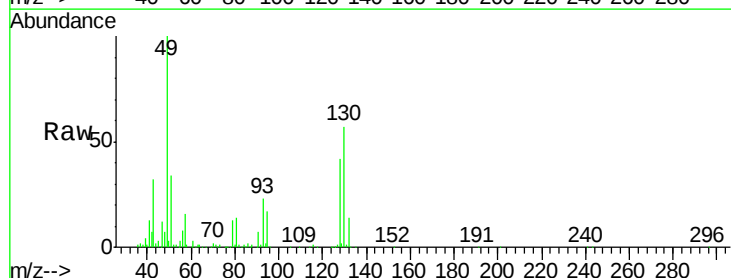
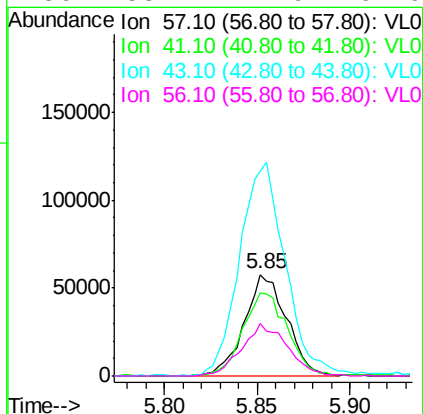
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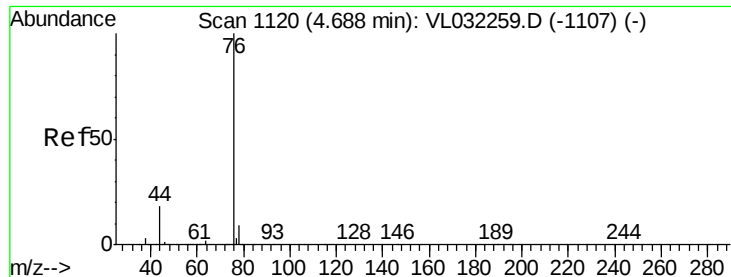
MMDadoda
7/20/2018 2:53:06 PM



#26
Hexane
Concen: 0.49 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
57	100			
41	87.3		67.9	101.9
43	229.2		175.9	263.9
56	55.4		41.9	62.9





#27

Carbon Disulfide

Concen: 0.42 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

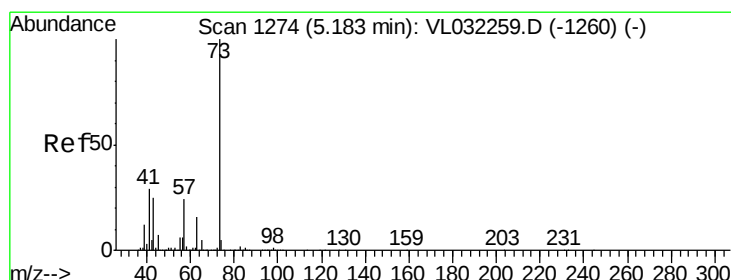
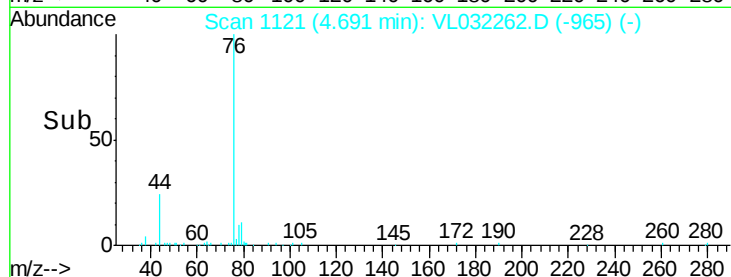
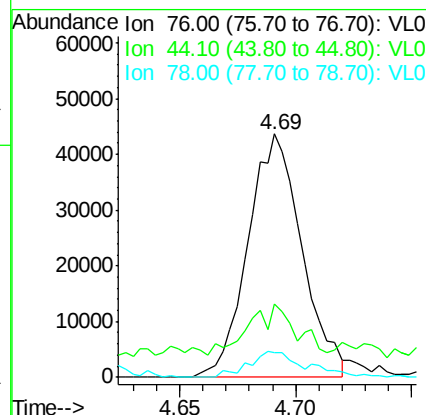
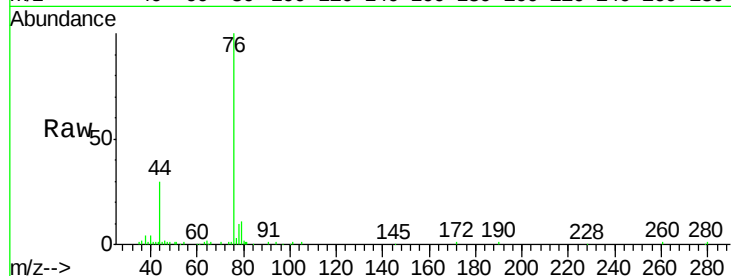
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	70509
Ion Ratio	Lower	Upper	
76	100		
44	31.4	14.3	21.5#
78	11.8	7.4	11.0#

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#28

Methyl tert-Butyl Ether

Concen: 0.43 ppbv

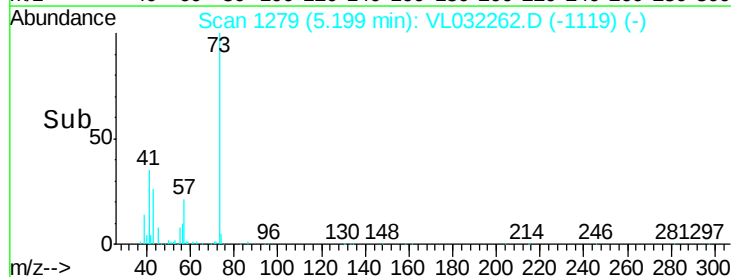
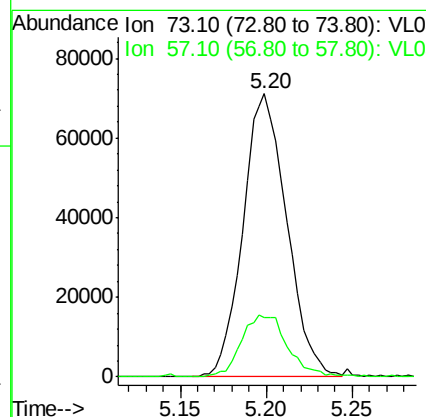
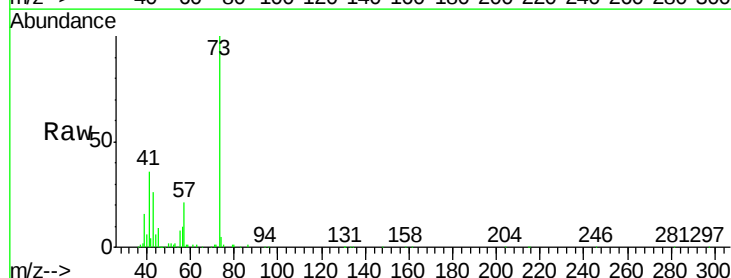
RT: 5.20 min Scan# 1279

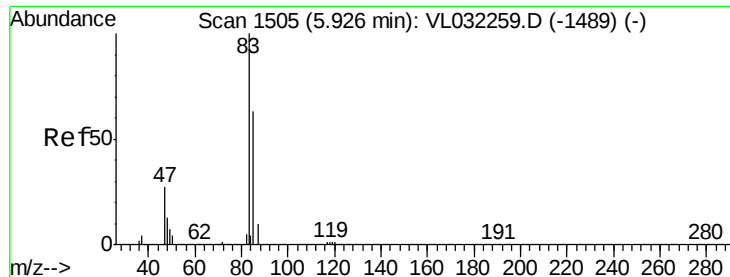
Delta R.T. 0.02 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:	73	Resp:	125527
Ion Ratio	Lower	Upper	
73	100		
57	23.4	19.3	28.9





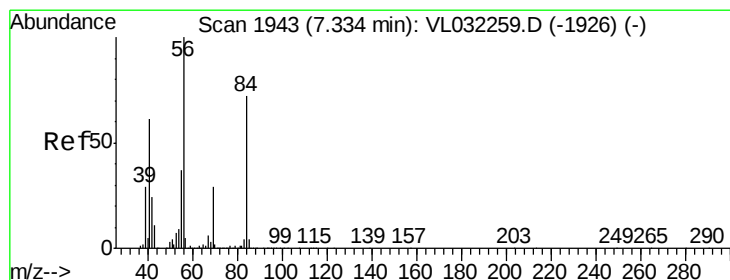
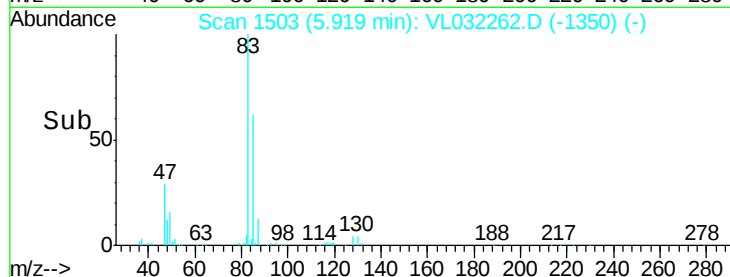
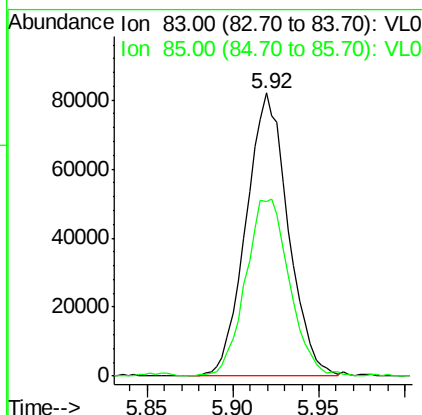
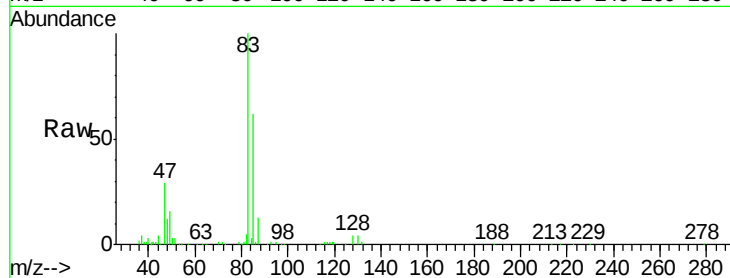
#29
Chloroform
Concen: 0.49 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	139264
Ion Ratio	Lower	Upper	
83	100		
85	61.5	50.7	76.1

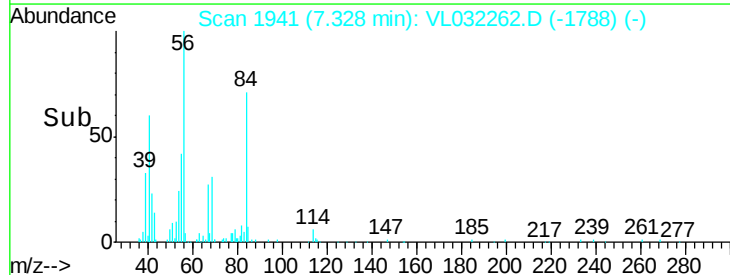
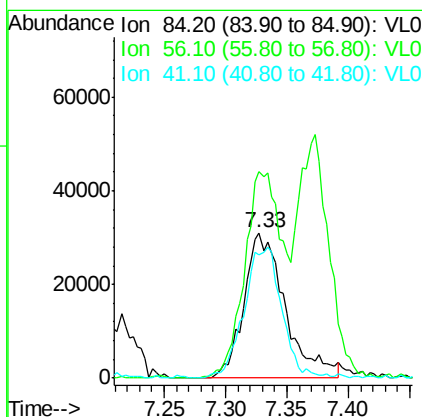
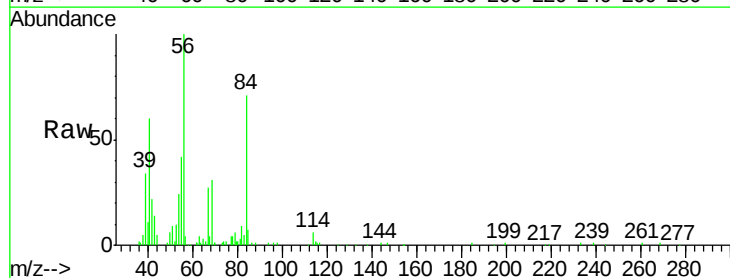
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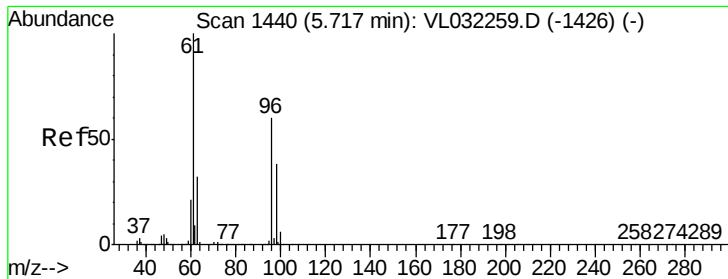
MMDadoda
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#30
Cyclohexane
Concen: 0.44 ppbv m
RT: 7.33 min Scan# 1941
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	84	Resp	72642
Ion Ratio	Lower	Upper	
84	100		
56	116.9	115.6	173.4
41	0.0	68.7	103.1#





#31

cis-1,2-Dichloroethene

Concen: 0.44 ppbv

RT: 5.71 min Scan# 1438

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

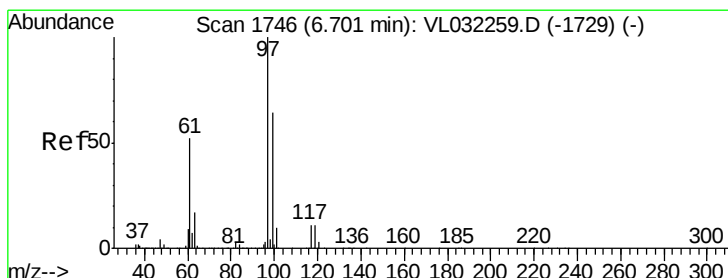
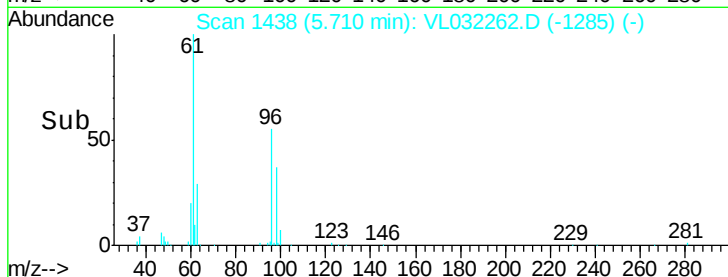
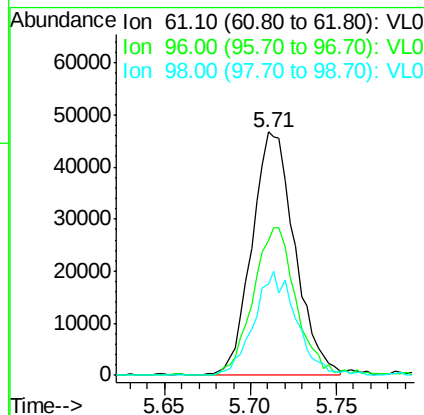
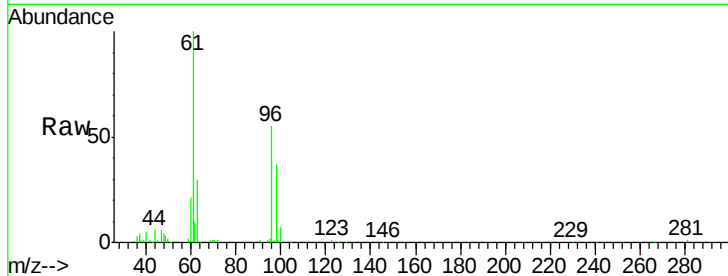
ClientSampleId :

VSTDIC0.5

Tot Ion:	61	Resp:	80886
Ion Ratio		Lower	Upper
61	100		
96	55.3	47.9	71.9
98	37.5	30.5	45.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.49 ppbv

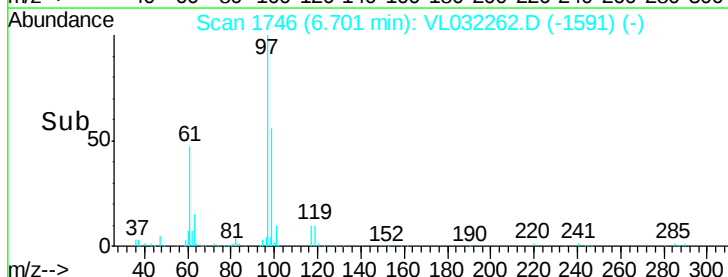
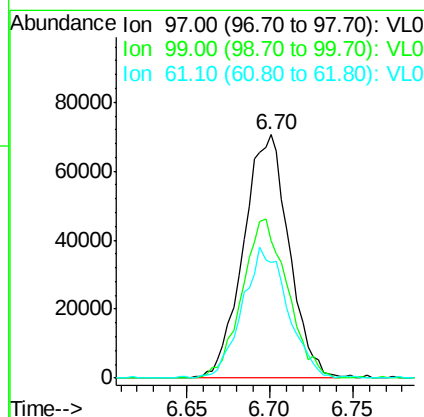
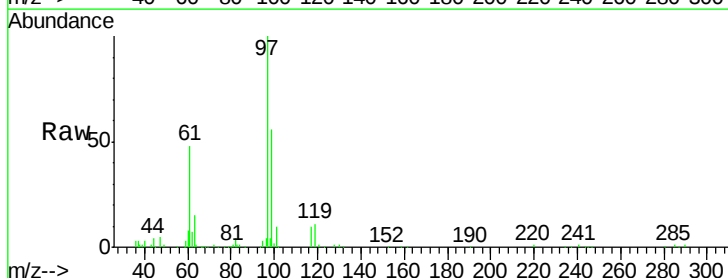
RT: 6.70 min Scan# 1746

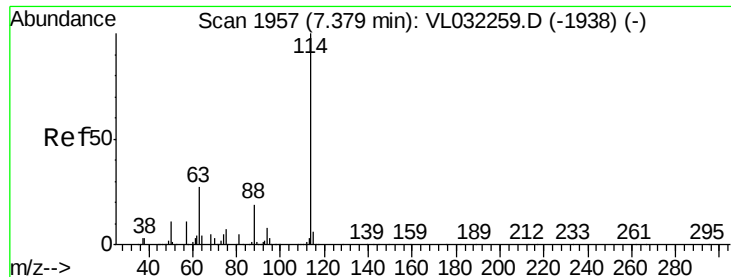
Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:	97	Resp:	135034
Ion Ratio		Lower	Upper
97	100		
99	65.3	51.0	76.6
61	53.6	41.2	61.8





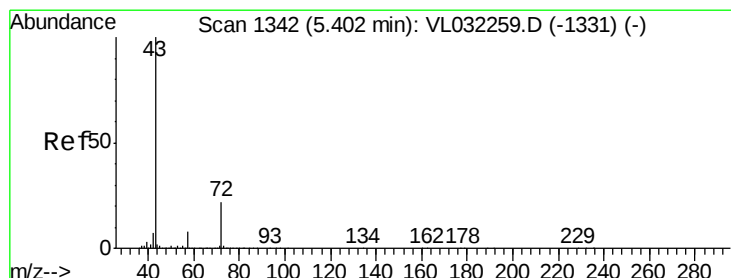
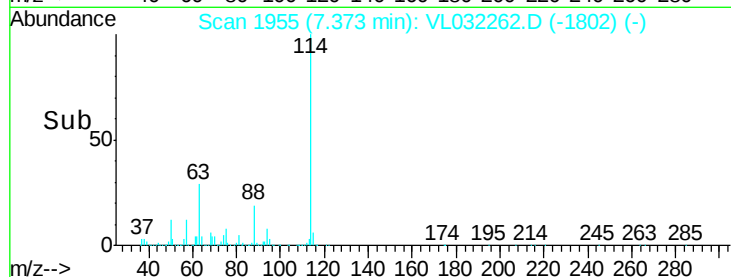
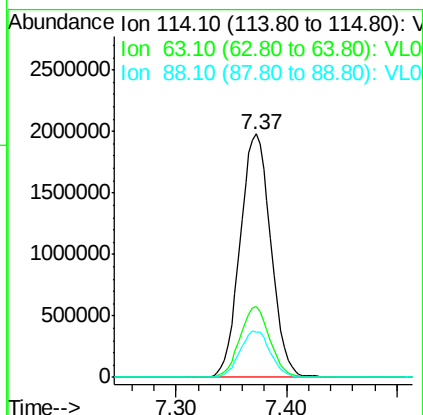
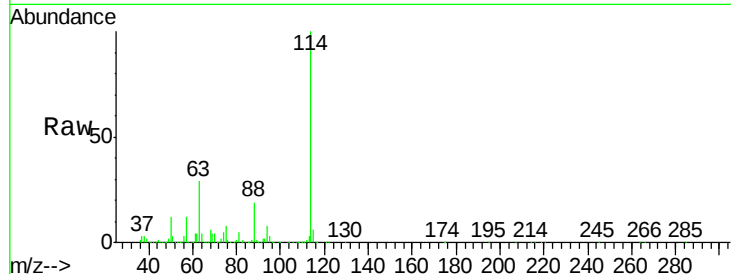
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1955
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.6	33.8
88	19.1	15.2	22.8

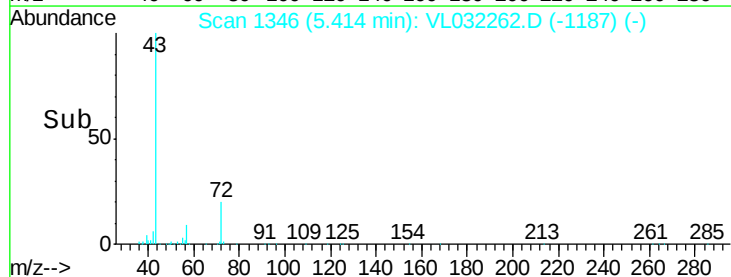
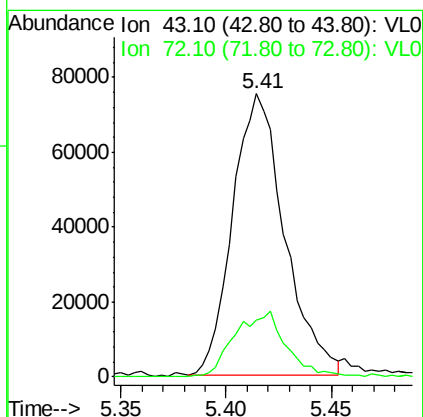
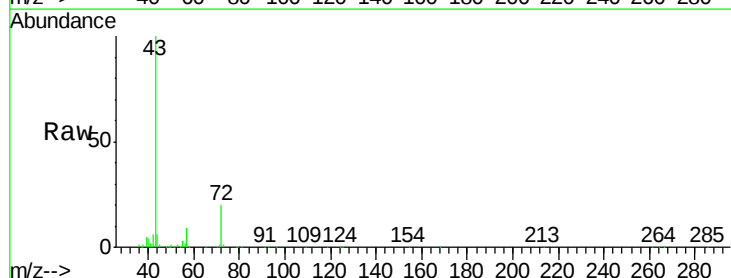
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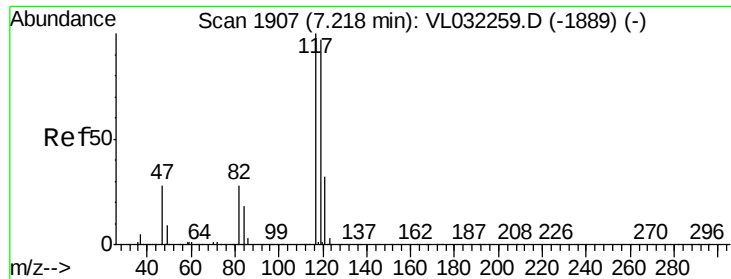
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#34
 2-Butanone
 Concen: 0.50 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. 0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.7	26.5





#35

Carbon Tetrachloride

Concen: 0.51 ppbv

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

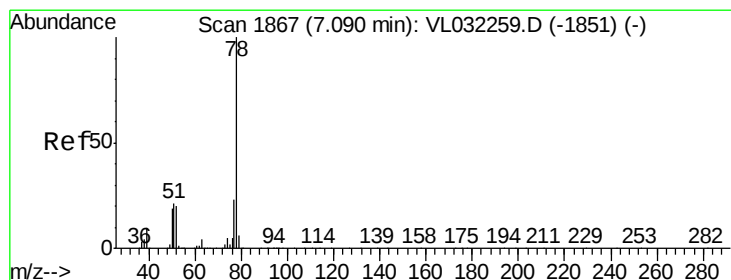
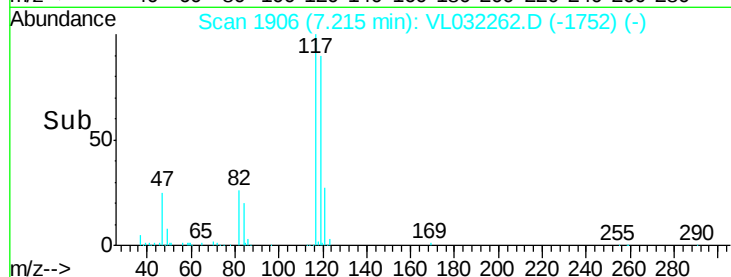
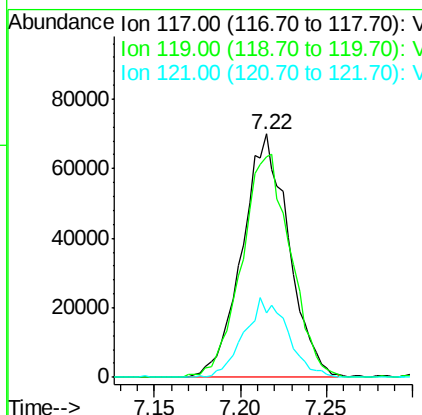
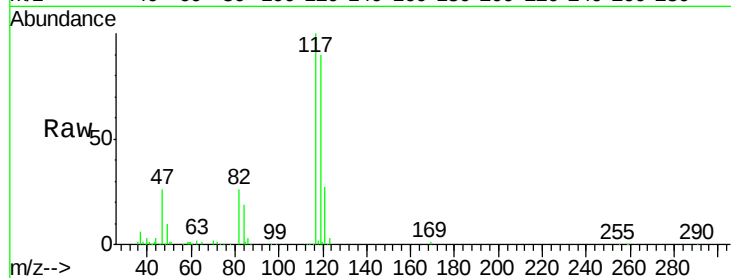
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	131260
Ion Ratio	Lower	Upper	
117	100		
119	89.4	77.4	116.0
121	26.6	25.4	38.2

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#36

Benzene

Concen: 0.48 ppbv

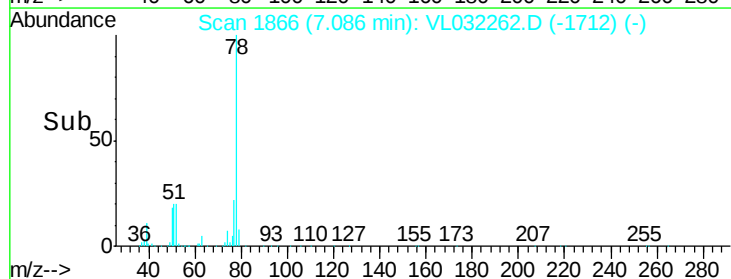
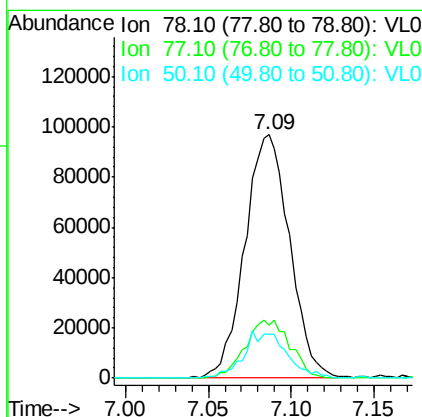
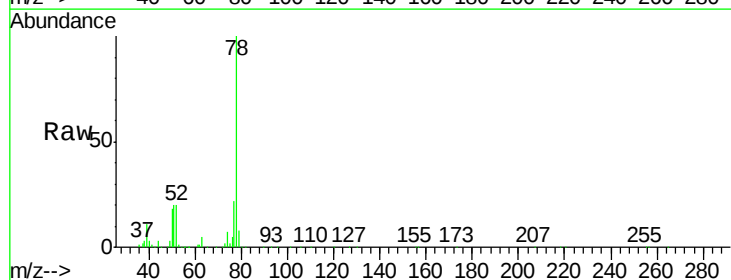
RT: 7.09 min Scan# 1866

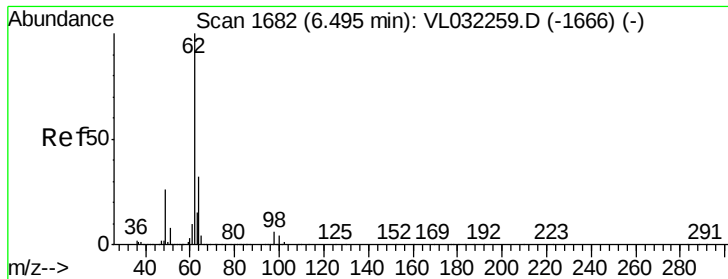
Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:	78	Resp:	181617
Ion Ratio	Lower	Upper	
78	100		
77	21.8	18.6	27.8
50	17.8	15.0	22.6





#37

1,2-Dichloroethane

Concen: 0.55 ppbv

RT: 6.49 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 113579

Ion Ratio Lower Upper

62 100

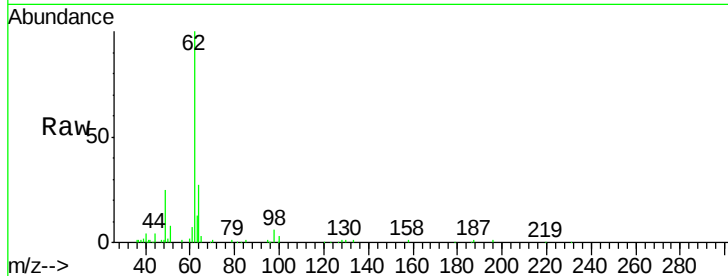
98 6.1 4.9 7.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.49

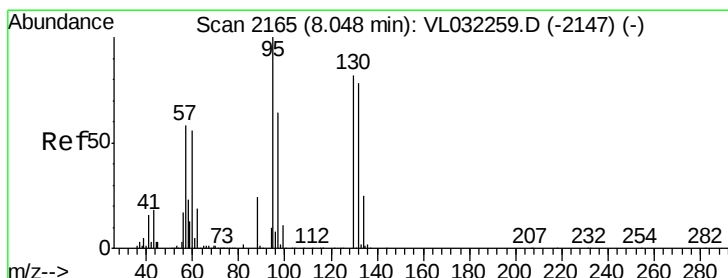
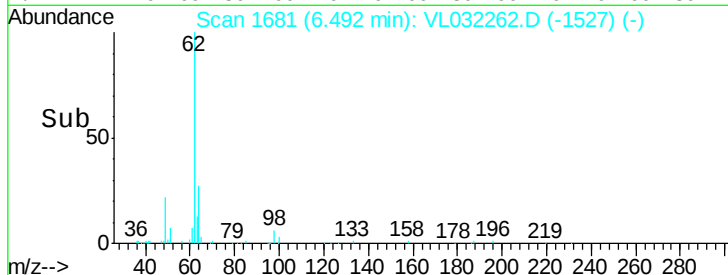
60000

40000

20000

0

Time-->



#38

Trichloroethene

Concen: 0.45 ppbv

RT: 8.04 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:130 Resp: 58250

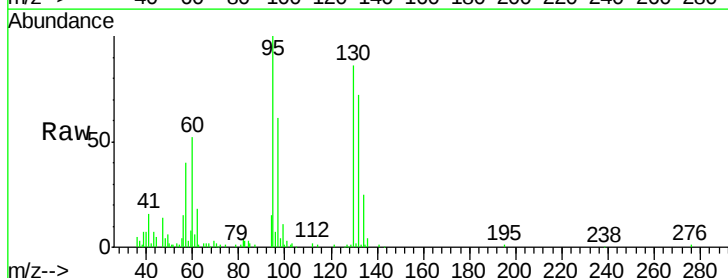
Ion Ratio Lower Upper

130 100

95 112.8 97.1 145.7

132 82.2 75.6 113.4

97 69.1 62.1 93.1



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

60000

50000

40000

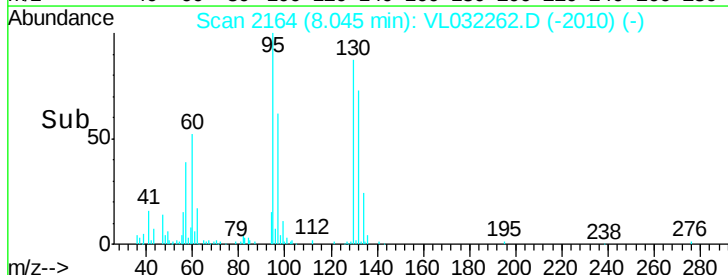
30000

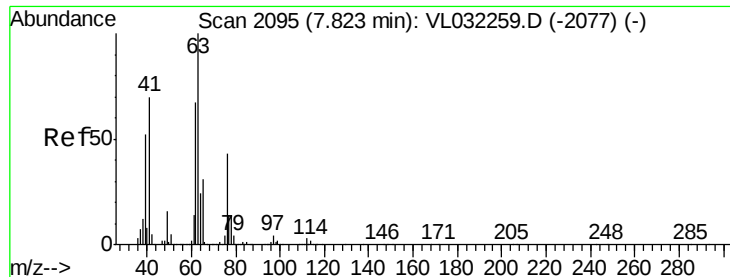
20000

10000

0

Time-->





#39

1,2-Dichloropropane

Concen: 0.49 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

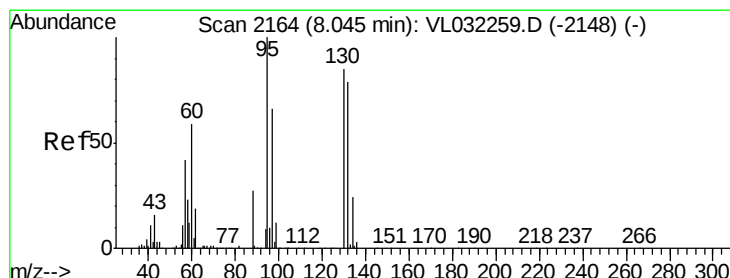
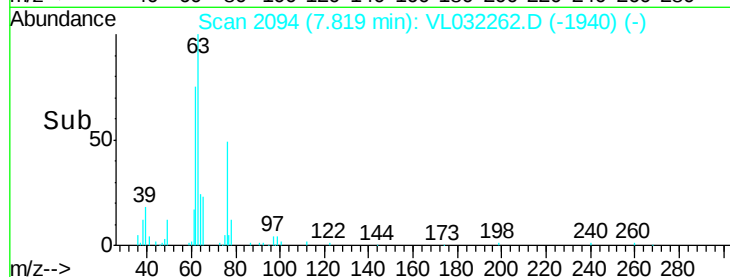
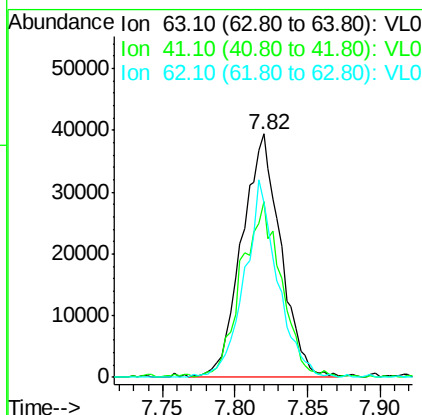
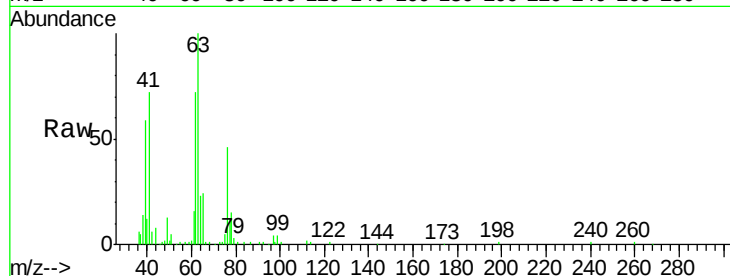
ClientSampled :

VSTDIC0.5

Tot Ion:	63	Resp:	73517
Ion	Ratio	Lower	Upper
63	100		
41	72.1	55.8	83.6
62	71.8	53.8	80.8

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.39 ppbv m

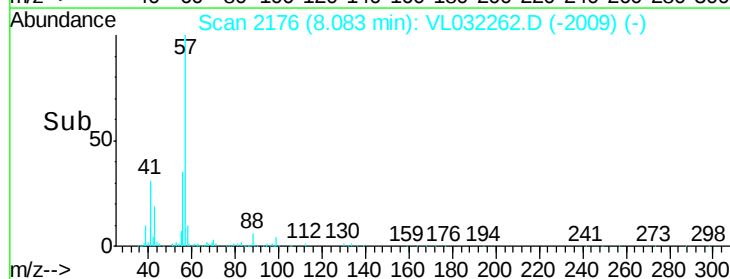
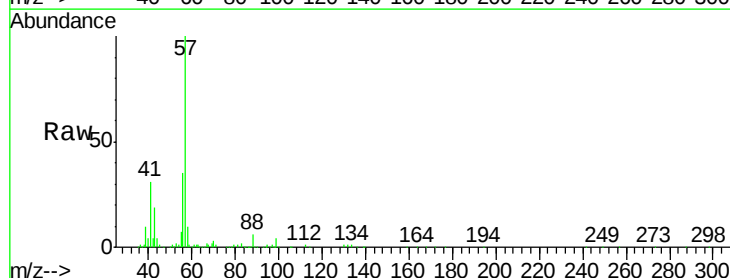
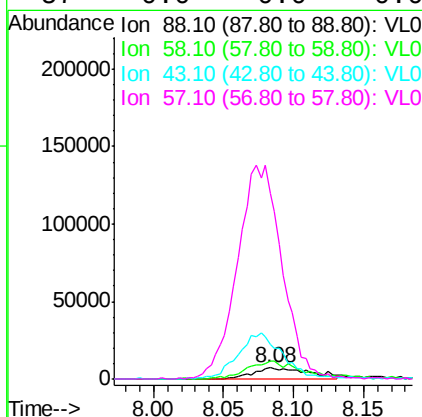
RT: 8.08 min Scan# 2176

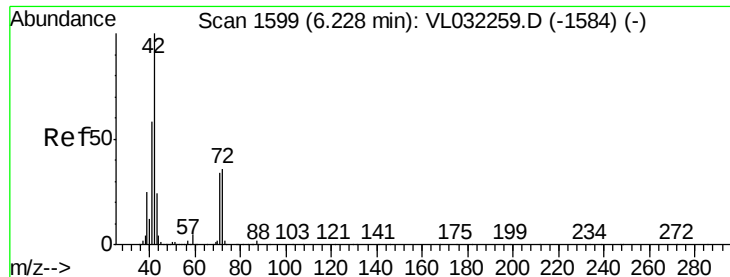
Delta R.T. 0.04 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:	88	Resp:	20244
Ion	Ratio	Lower	Upper
88	100		
58	0.0	60.9	91.3#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





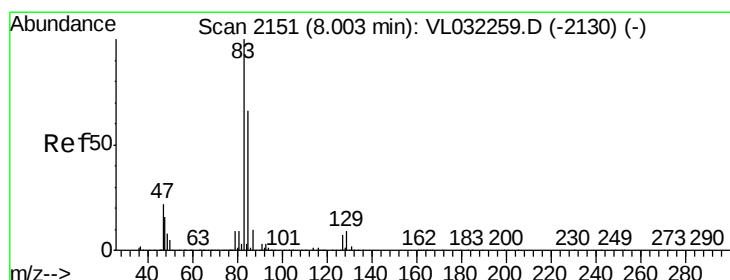
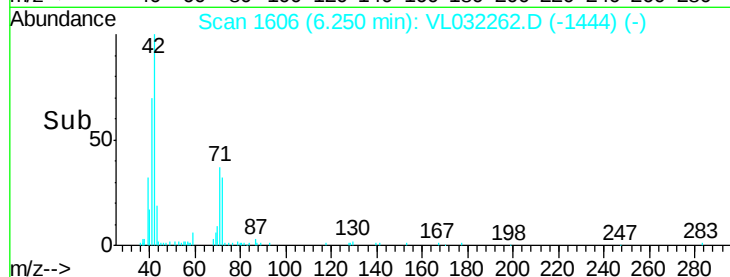
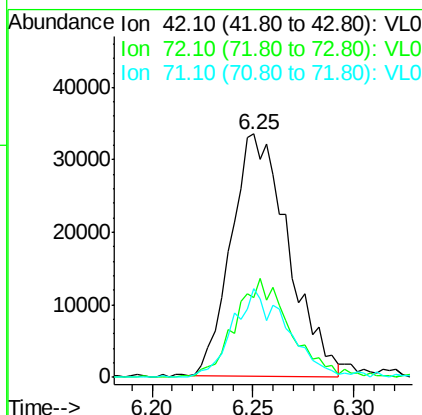
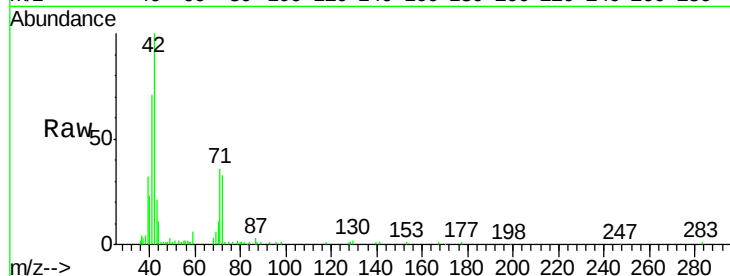
#41
Tetrahydrofuran
Concen: 0.45 ppbv
RT: 6.25 min Scan# 1606
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.0	29.4	44.0
71	35.8	28.2	42.4

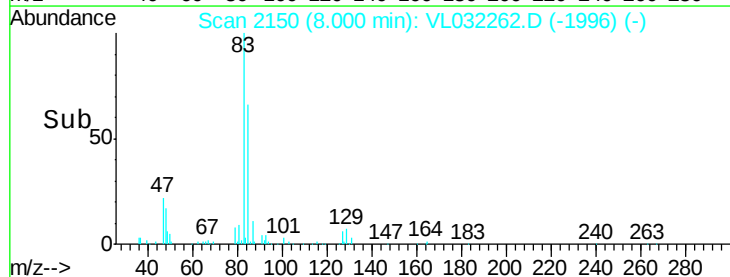
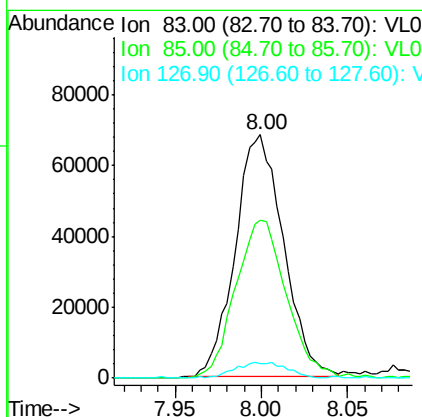
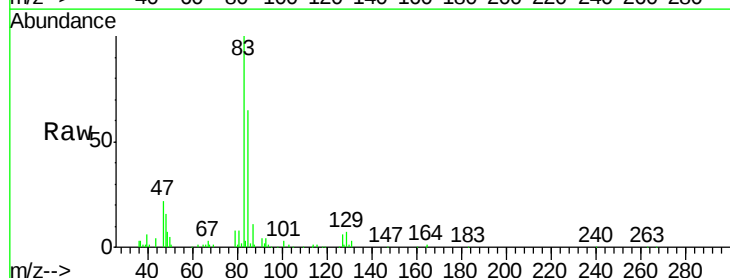
Manual Integrations
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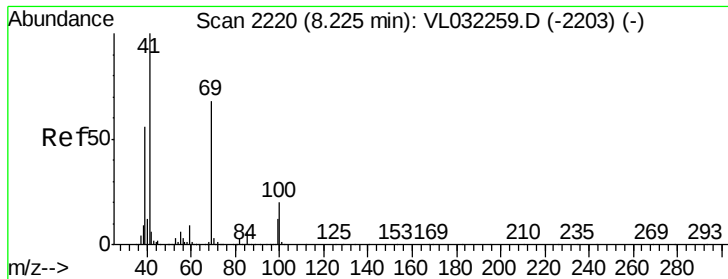
MMDadoda
7/20/2018 2:53:06 PM



#42
Bromodichloromethane
Concen: 0.45 ppbv
RT: 8.00 min Scan# 2150
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	53.0	79.4
127	6.1	5.7	8.5





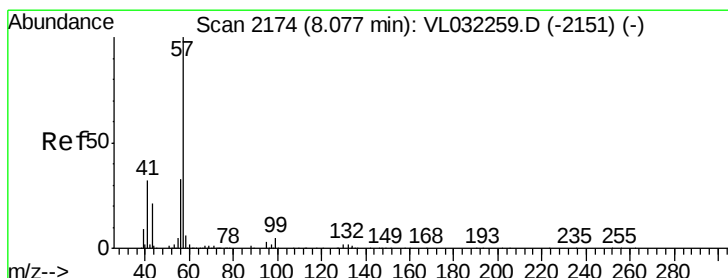
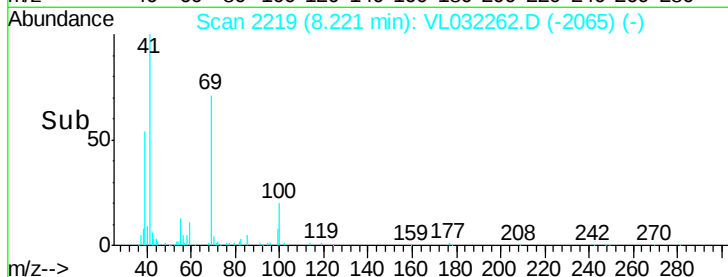
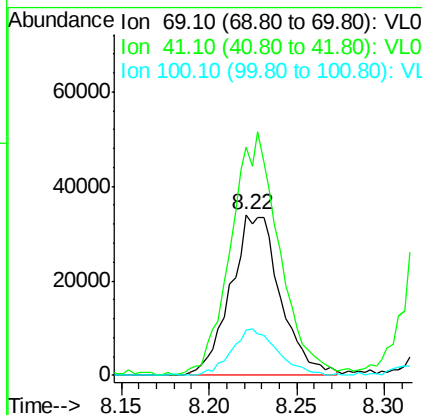
#43
Methvl Methacrylate
Concen: 0.46 ppbv m
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	23.3	34.9#

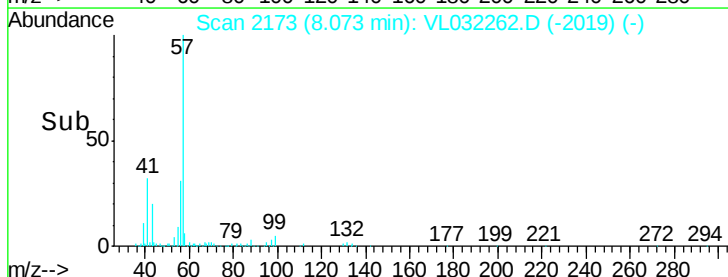
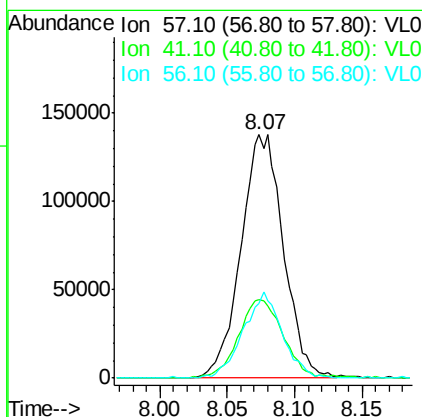
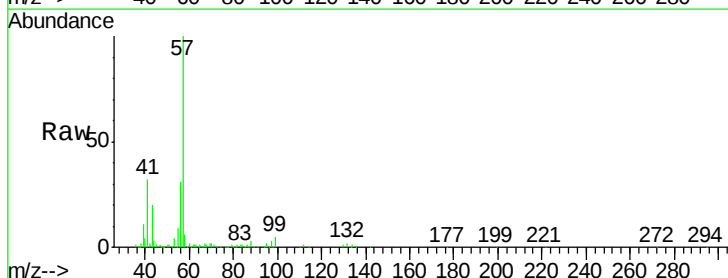
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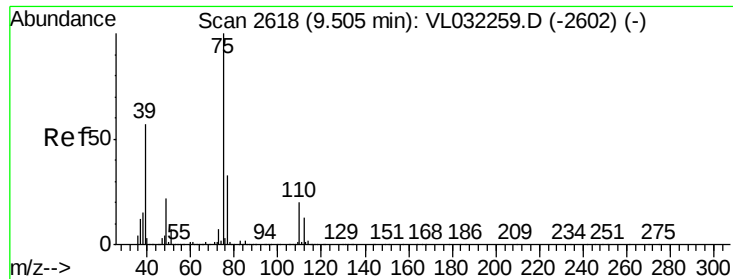
MMDadoda
7/20/2018 2:53:06 PM



#44
2,2,4-Trimethylpentane
Concen: 0.46 ppbv m
RT: 8.07 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.2	24.4	36.6
56	0.0	25.7	38.5#





#45

t-1,3-Dichloropropene

Concen: 0.37 ppbv m

RT: 9.50 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 64290

Ion Ratio Lower Upper

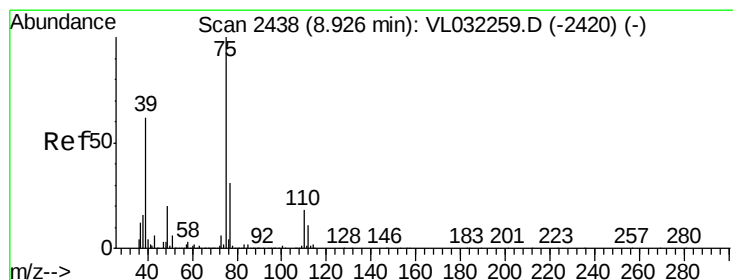
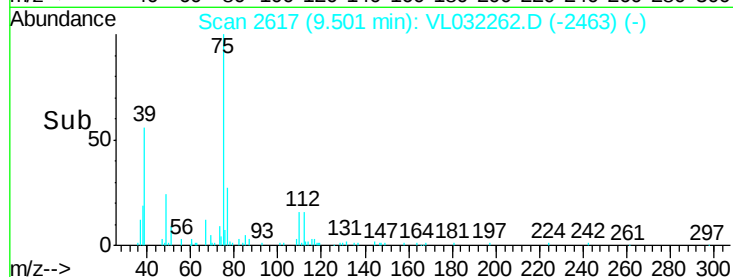
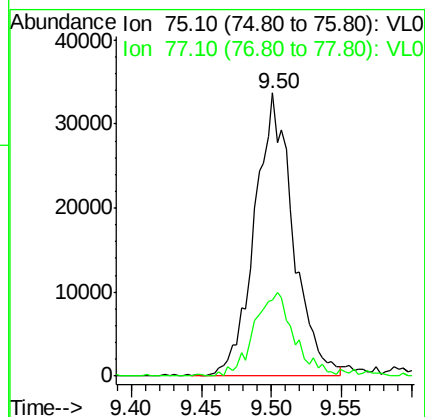
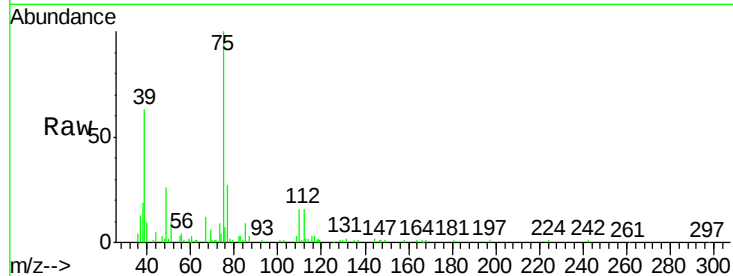
75 100

77 27.0 26.2 39.4

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#46

cis-1,3-Dichloropropene

Concen: 0.44 ppbv m

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

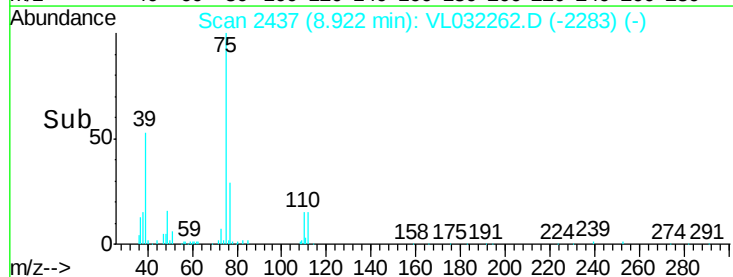
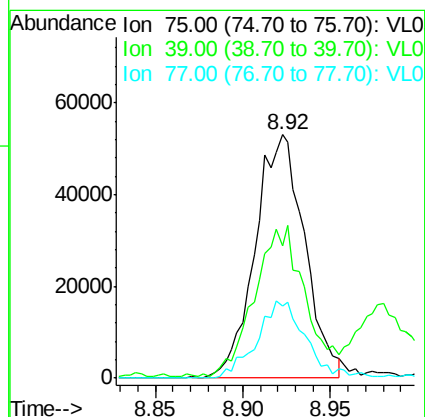
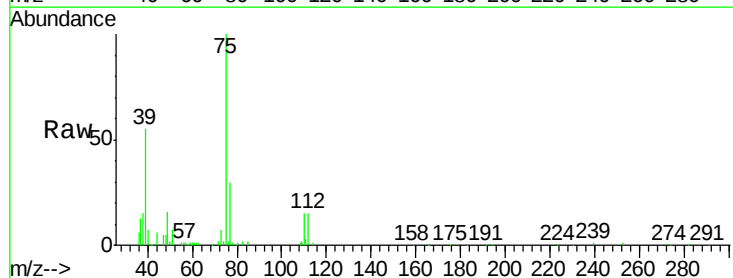
Tgt Ion: 75 Resp: 103552

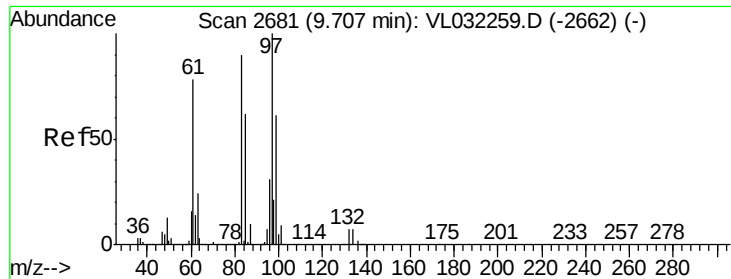
Ion Ratio Lower Upper

75 100

39 54.5 49.9 74.9

77 29.8 25.0 37.4





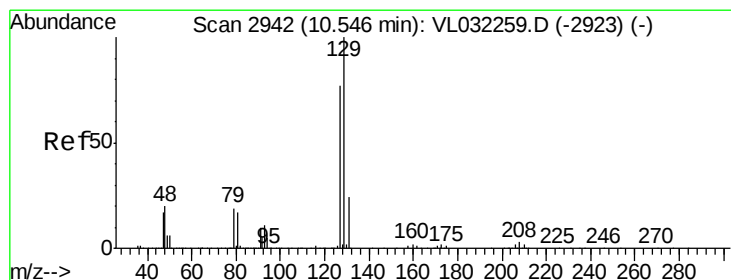
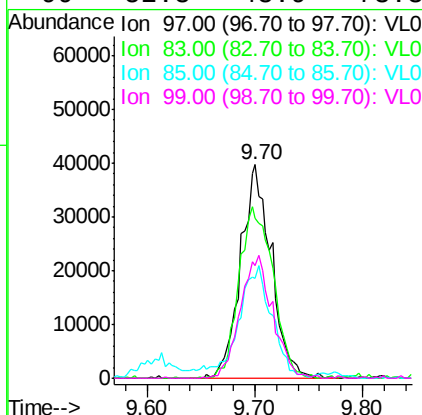
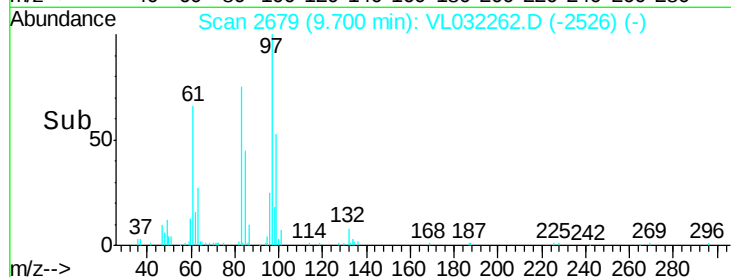
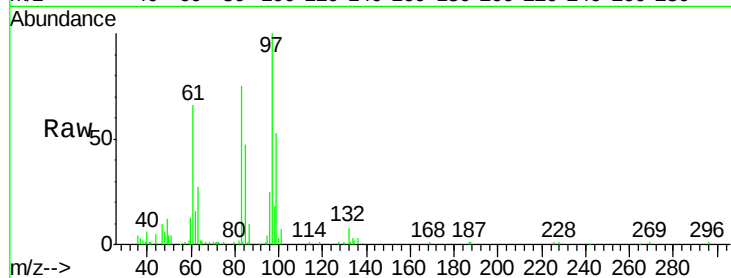
#47
 1,1,2-Trichloroethane
 Concen: 0.47 ppbv m
 RT: 9.70 min Scan# 2679
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		78750		
83	74.9	72.3	108.5		
85	46.6	49.5	74.3#		
99	52.8	48.9	73.3		

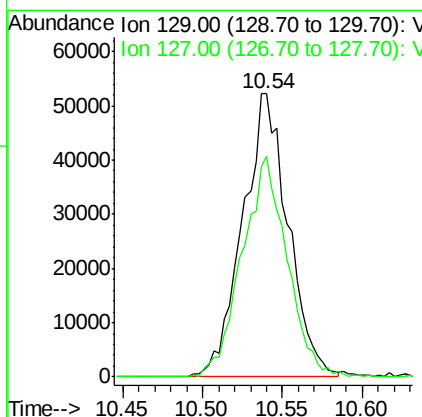
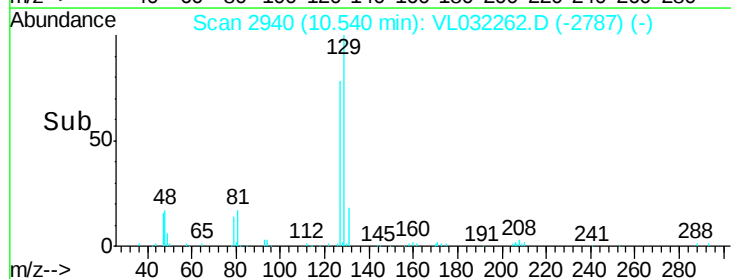
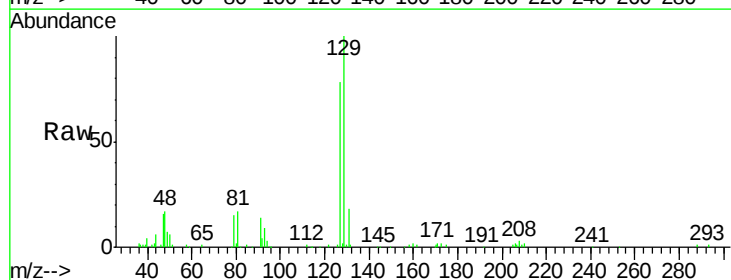
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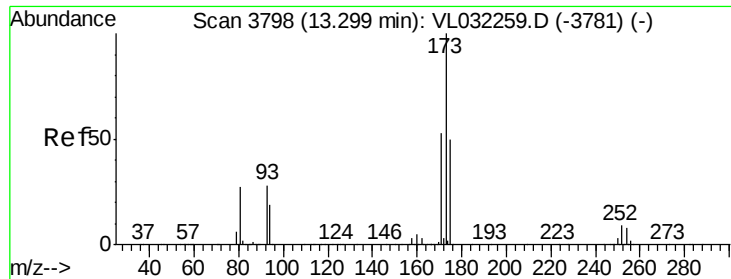
MMDadoda
 7/20/2018 2:53:06 PM



#48
 Dibromochloromethane
 Concen: 0.41 ppbv
 RT: 10.54 min Scan# 2940
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		101652		
127	77.2	39.1	117.3		





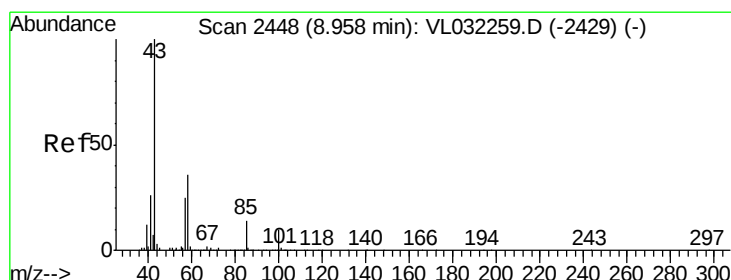
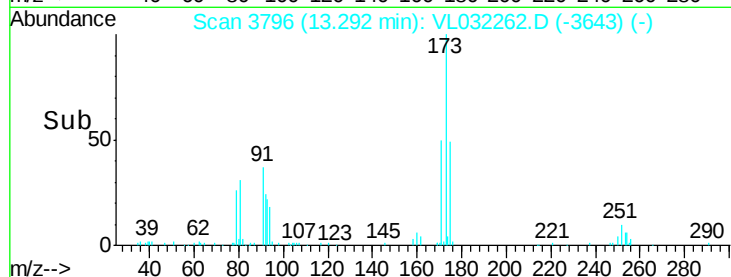
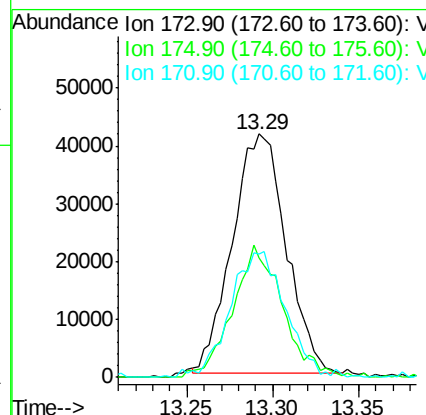
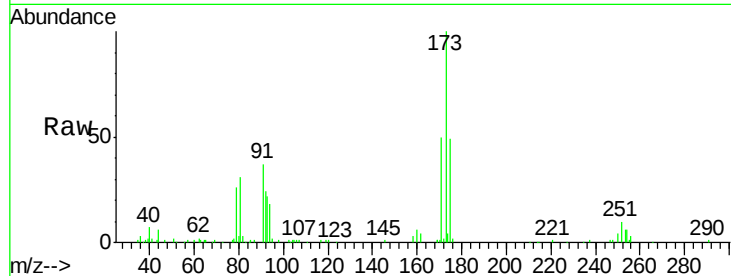
#49
Bromoform
Concen: 0.45 ppbv
RT: 13.29 min Scan# 3796
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.3	39.0	58.6
171	54.0	41.6	62.4

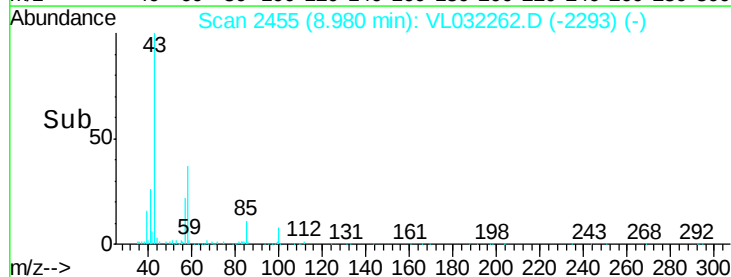
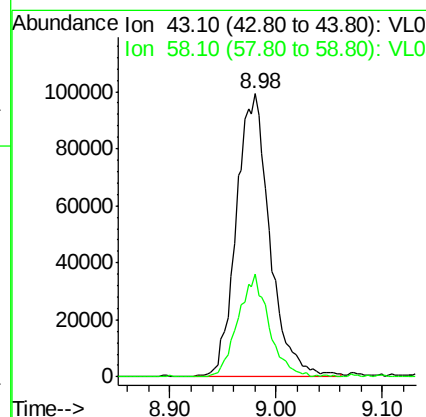
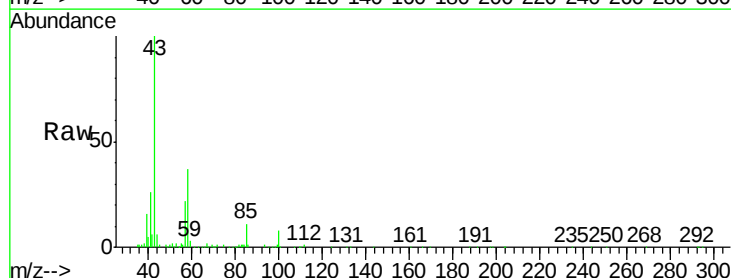
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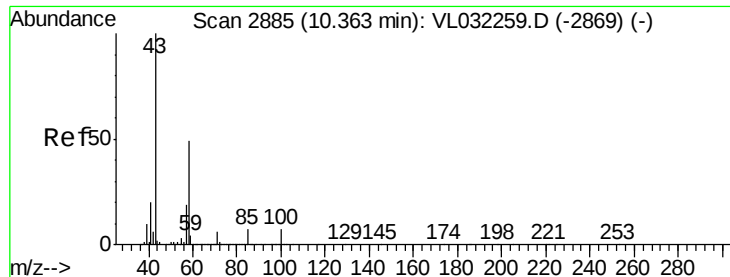
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 0.48 ppbv m
RT: 8.98 min Scan# 2455
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.2	43.8#





#51

2-Hexanone

Concen: 0.34 ppbv m

RT: 10.39 min Scan# 2892

Delta R.T. 0.02 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

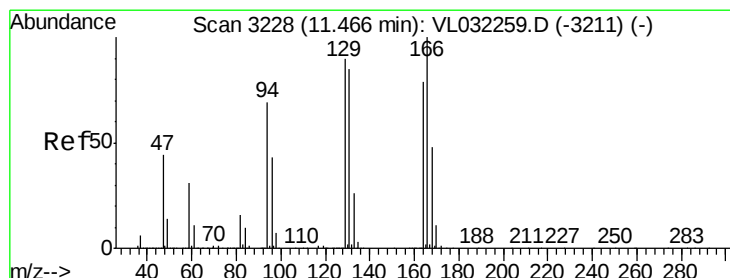
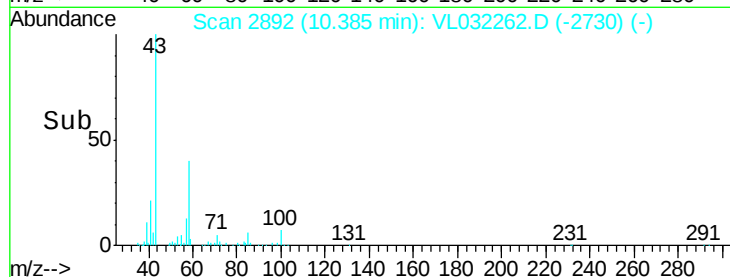
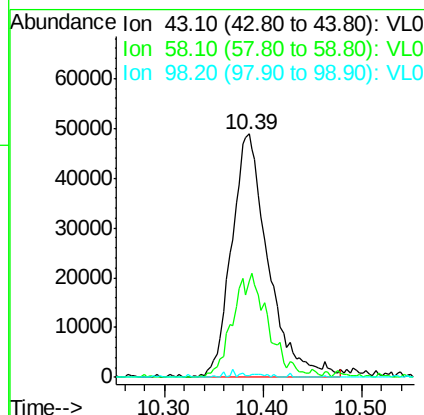
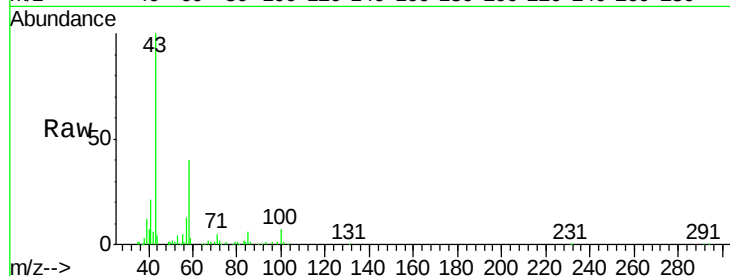
VSTDIC0.5

Tot Ion: 43 Resp: 126872

Ion	Ratio	Lower	Upper
43	100		
58	43.2	39.4	59.2
98	1.7	0.2	0.2#

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#52

Tetrachloroethene

Concen: 0.46 ppbv m

RT: 11.47 min Scan# 3228

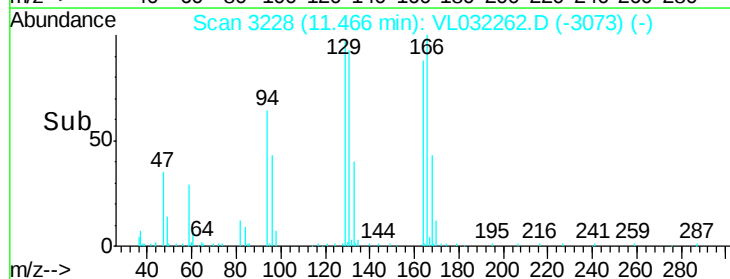
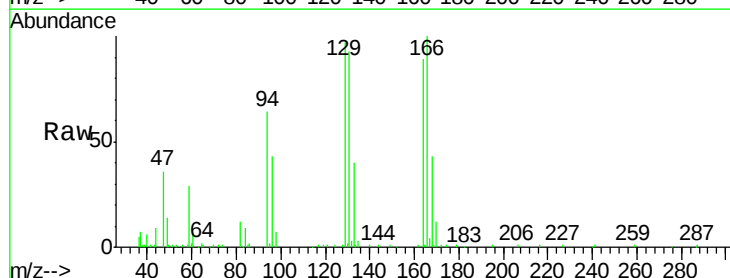
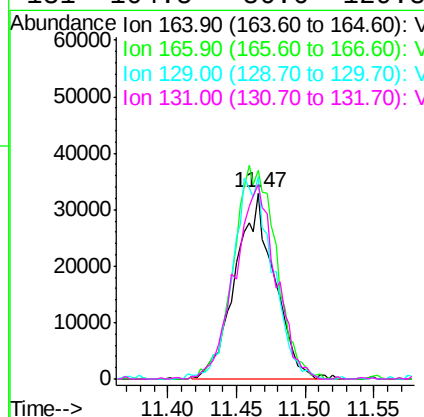
Delta R.T. -0.00 min

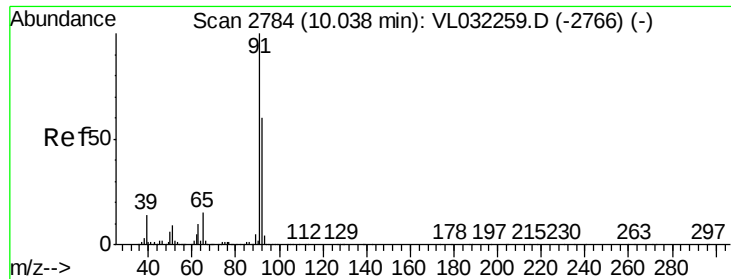
Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 164 Resp: 64760

Ion	Ratio	Lower	Upper
164	100		
166	112.4	101.7	152.5
129	108.5	91.5	137.3
131	104.5	86.6	129.8





#53

Toluene

Concen: 0.44 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 199154

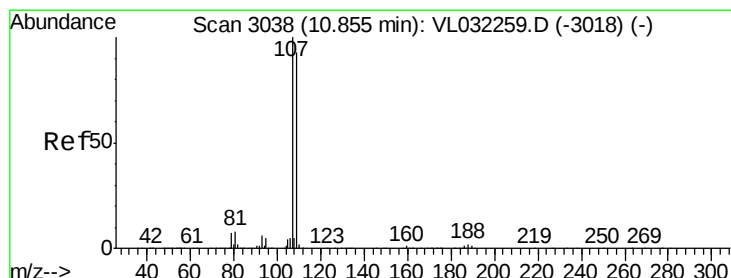
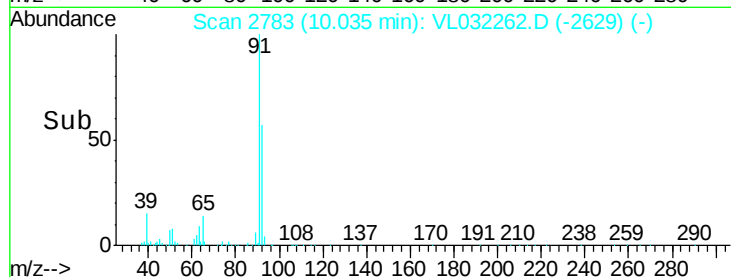
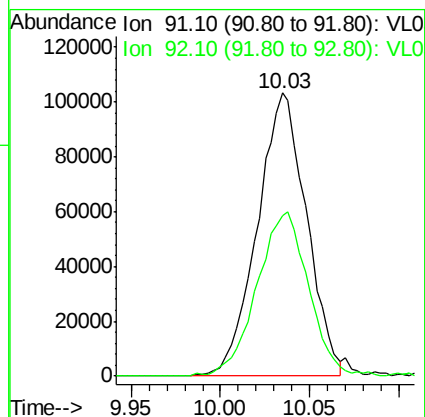
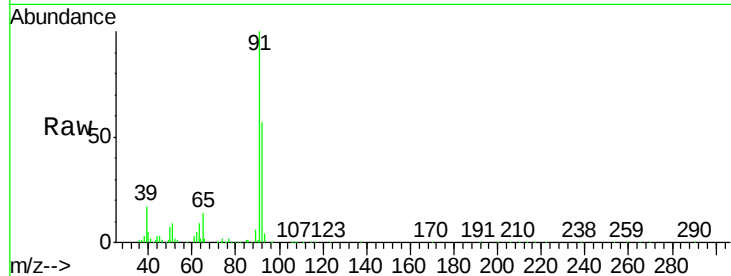
Ion Ratio Lower Upper

91 100

92 61.4 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 0.46 ppbv

RT: 10.85 min Scan# 3036

Delta R.T. -0.01 min

Lab File: VL032262.D

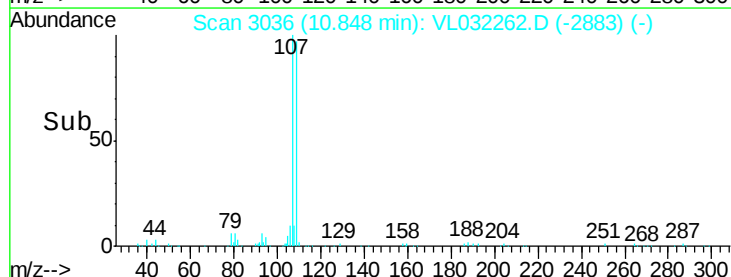
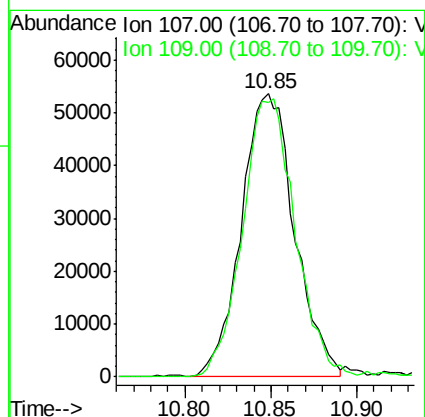
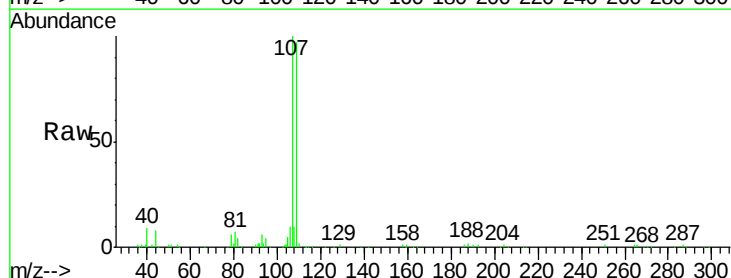
Acq: 18 Jul 2018 11:16

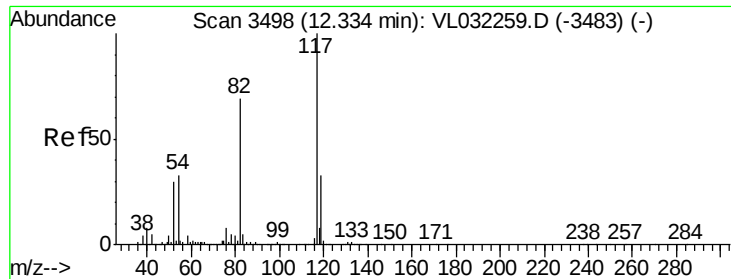
Tgt Ion: 107 Resp: 114908

Ion Ratio Lower Upper

107 100

109 96.8 74.8 112.2





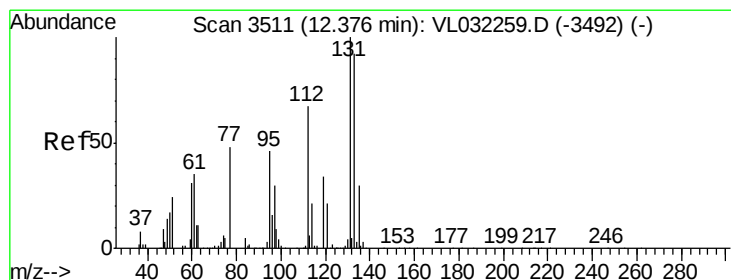
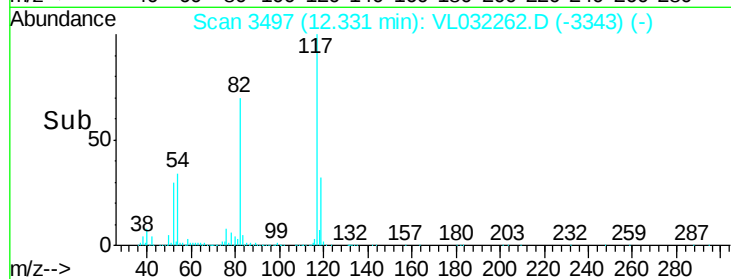
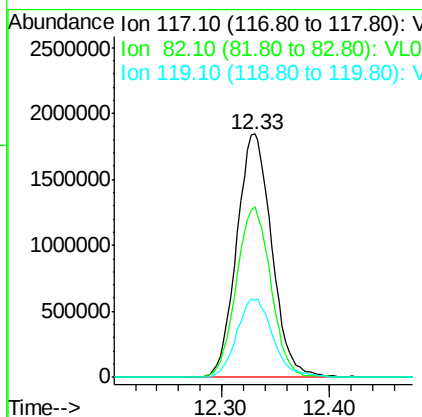
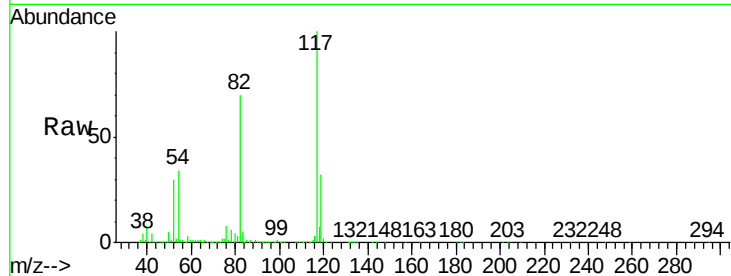
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 4182192
Ion Ratio Lower Upper
117 100
82 68.9 53.9 80.9
119 33.4 25.5 38.3

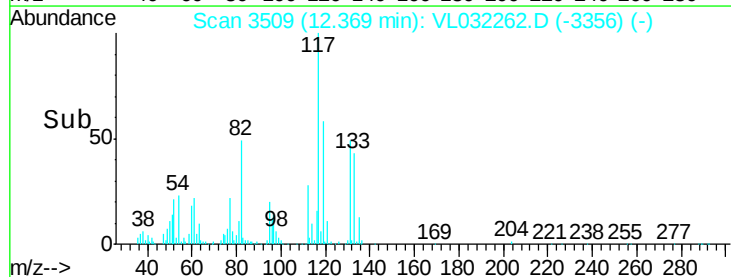
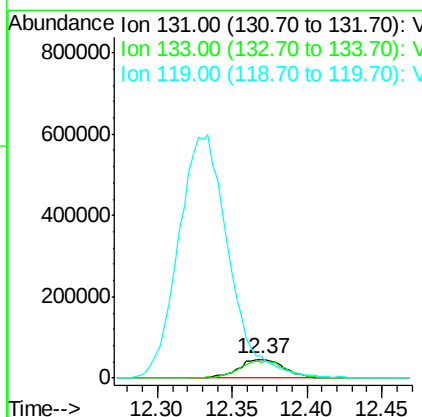
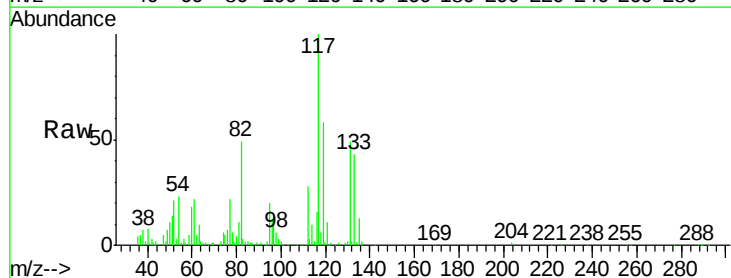
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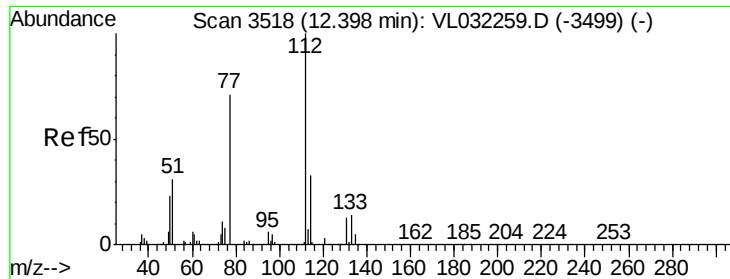
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.54 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion:131 Resp: 97942
Ion Ratio Lower Upper
131 100
133 94.2 75.4 113.0
119 1431.0 49.4 74.2#





#57

Chlorobenzene

Concen: 0.51 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

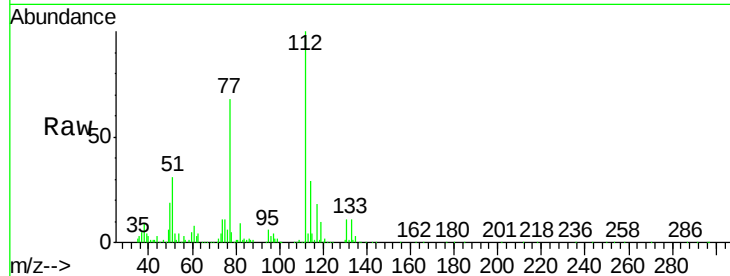
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	181807
Ion Ratio	Lower	Upper	
112	100		
77	67.8	58.2	87.4
114	28.9	29.5	36.1#

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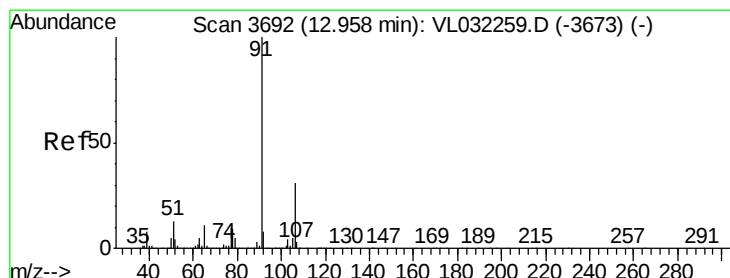
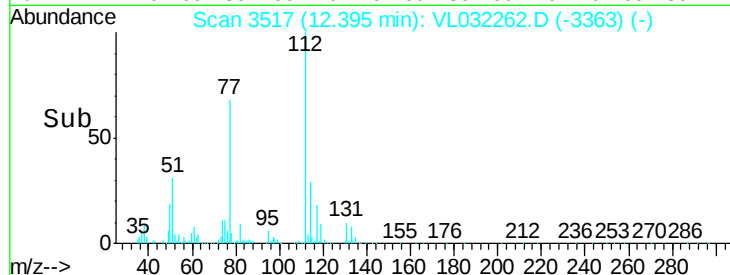
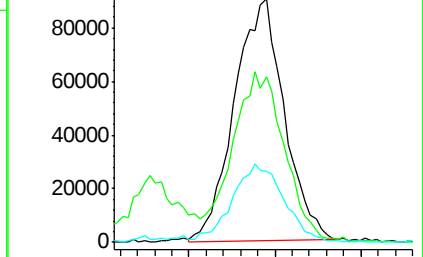
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.43 ppbv

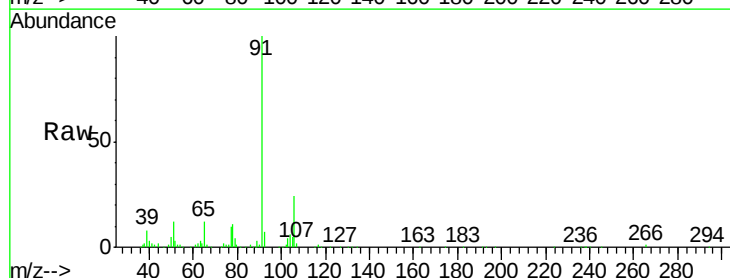
RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032262.D

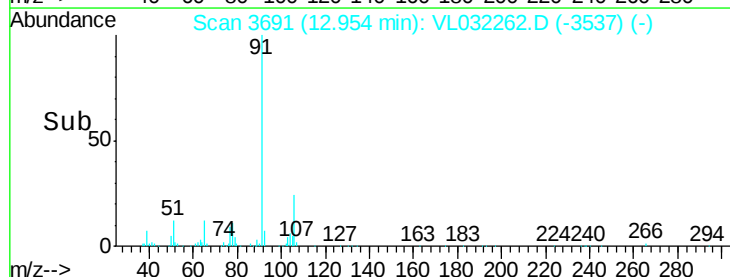
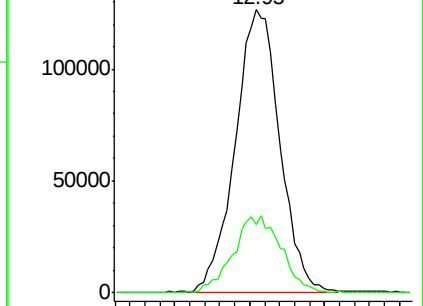
Acq: 18 Jul 2018 11:16

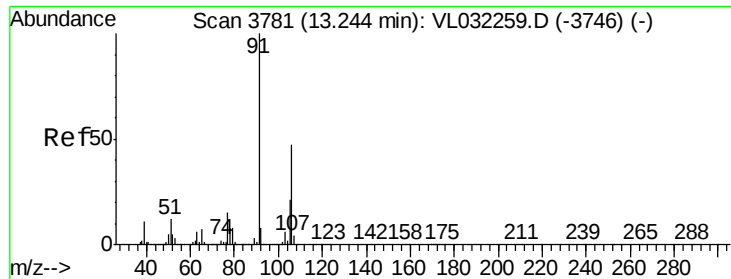
Tgt Ion:	91	Resp:	261805
Ion Ratio	Lower	Upper	
91	100		
106	23.9	24.5	36.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





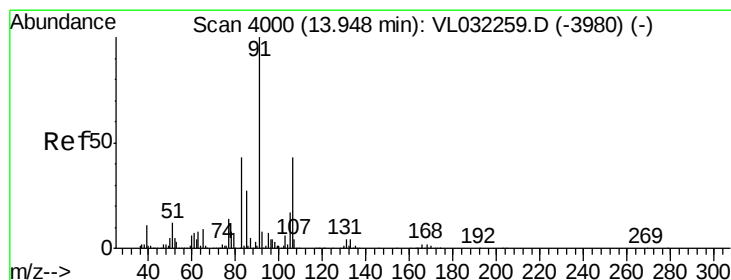
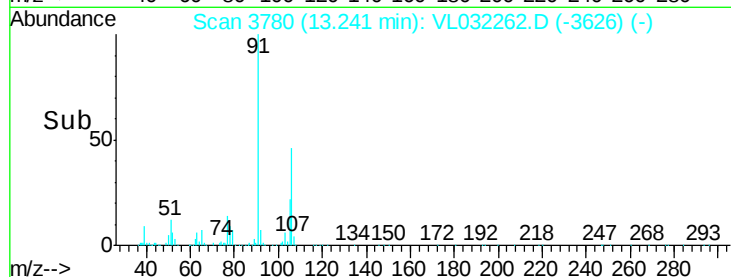
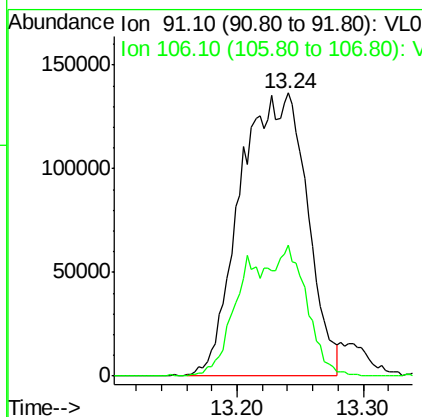
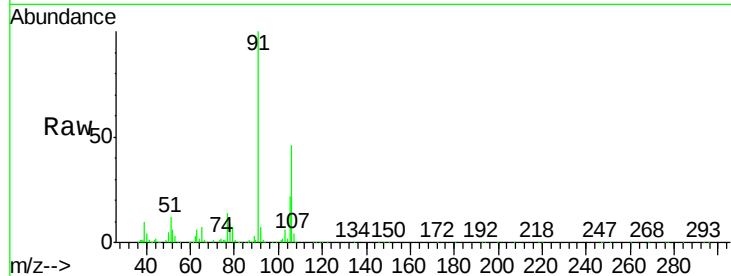
#59
m/p-Xylene
Concen: 1.00 ppbv m
RT: 13.24 min Scan# 3780
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 503402
Ion Ratio Lower Upper
91 100
106 43.5 36.2 54.2

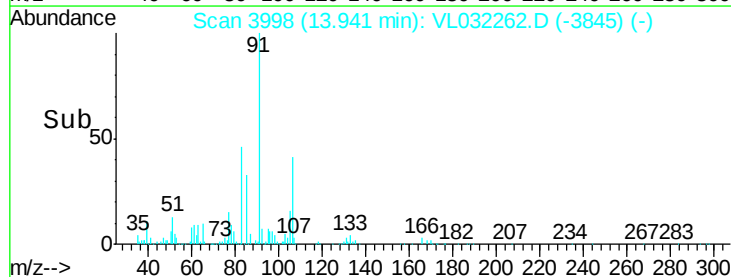
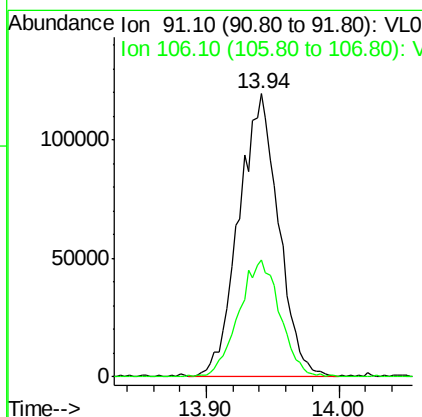
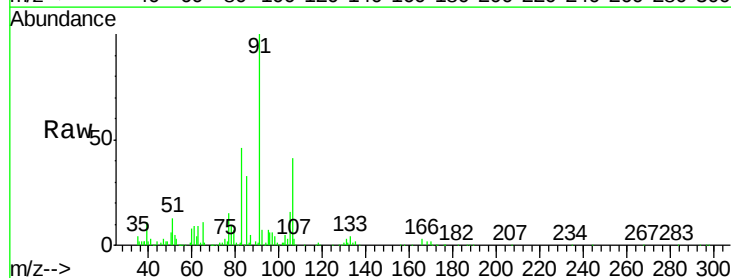
Manual Integrations
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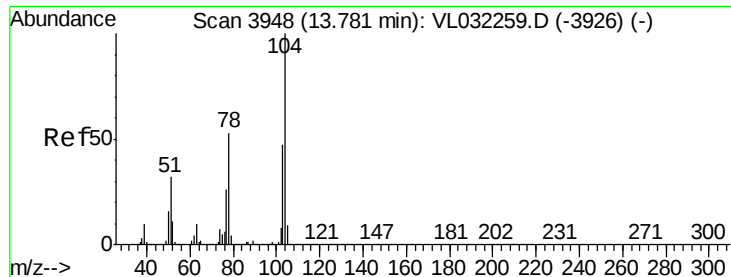
MMDadoda
7/20/2018 2:53:06 PM



#60
o-Xylene
Concen: 0.50 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion: 91 Resp: 248716
Ion Ratio Lower Upper
91 100
106 43.0 21.7 65.1





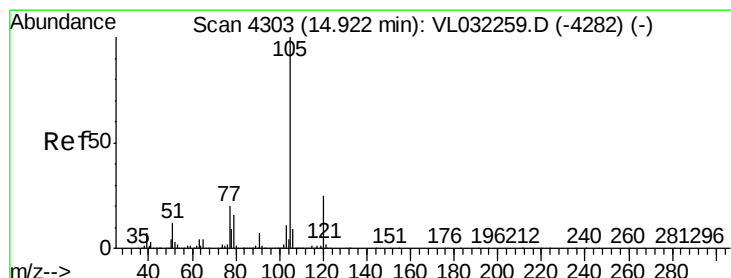
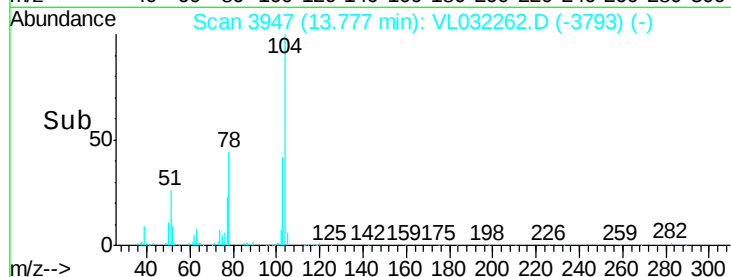
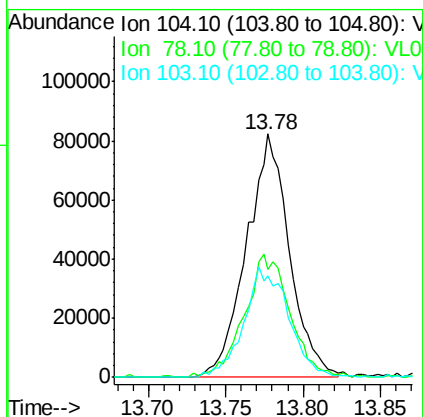
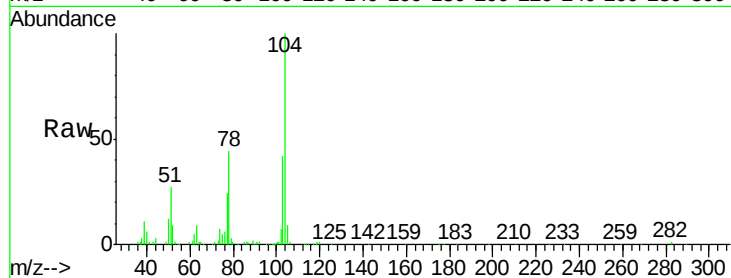
#61
Stvrene
Concen: 0.43 ppbv
RT: 13.78 min Scan# 3947
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.5	43.2	64.8
103	47.4	37.8	56.6

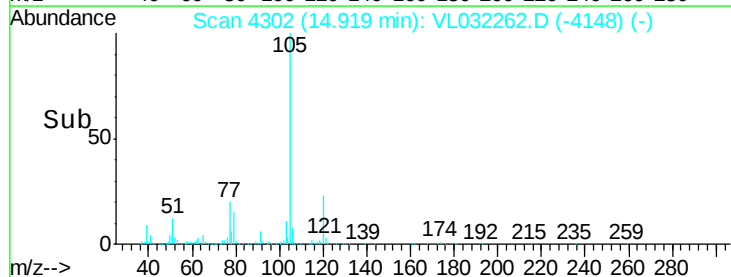
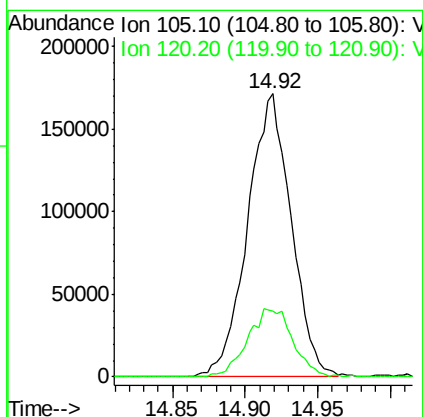
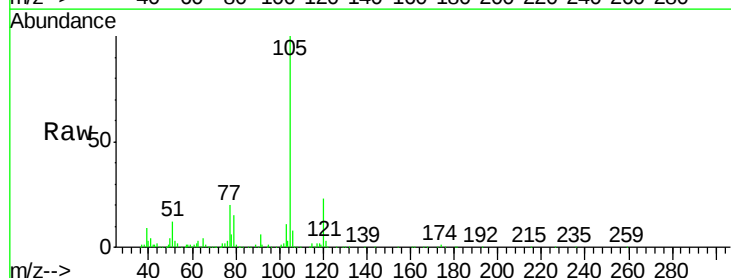
Manual Integrations
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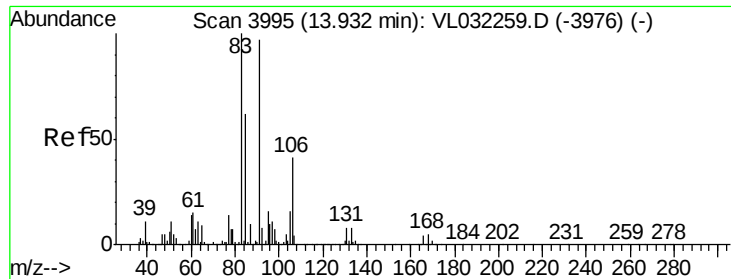
MMDadoda
7/20/2018 2:53:06 PM



#62
Isopropylbenzene
Concen: 0.51 ppbv
RT: 14.92 min Scan# 4302
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.2	30.4





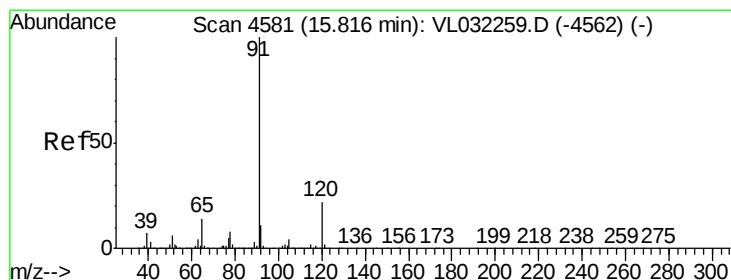
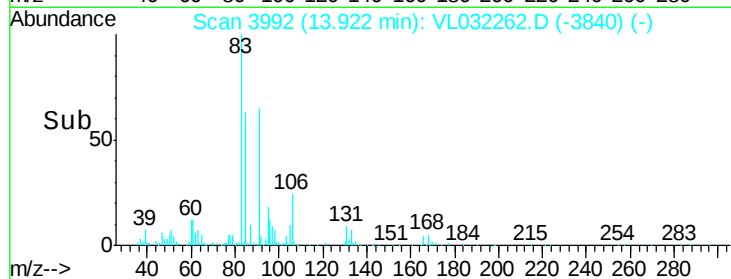
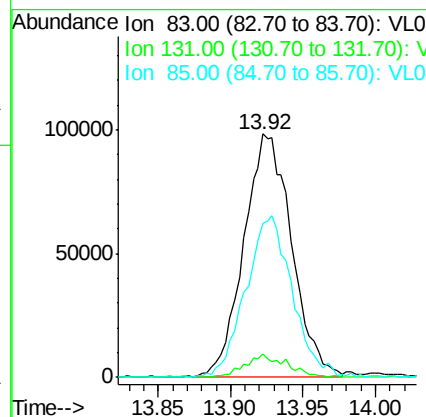
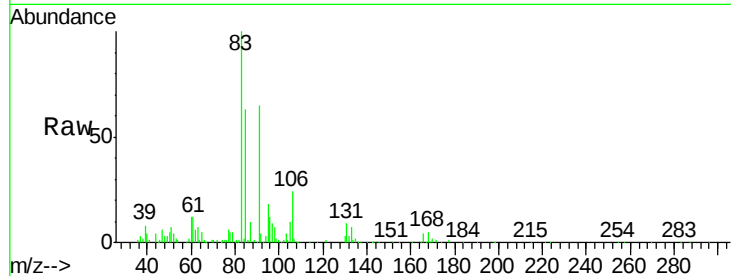
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.55 ppbv
 RT: 13.92 min Scan# 3992
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
83	100	222225		
131	8.7	4.2	12.6	
85	66.1	32.2	96.6	

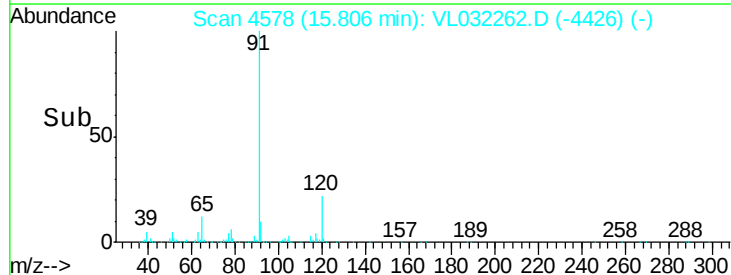
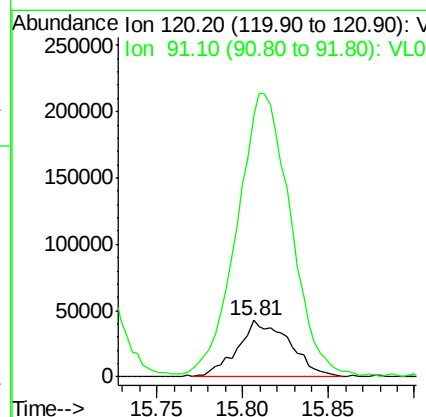
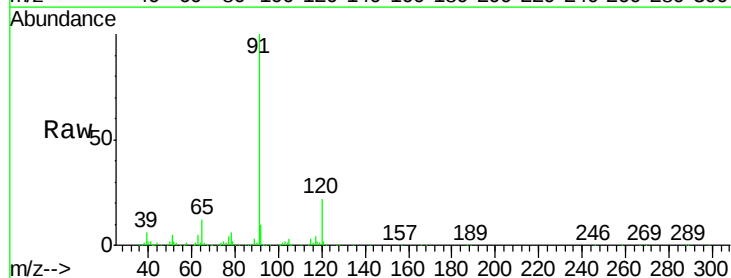
Manual Integrations
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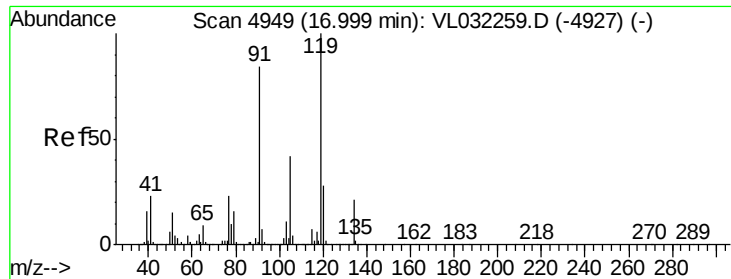
MMDadoda
 7/20/2018 2:53:06 PM



#64
 n-propylbenzene
 Concen: 0.50 ppbv
 RT: 15.81 min Scan# 4578
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	87769		
91	527.4	384.4	576.6	





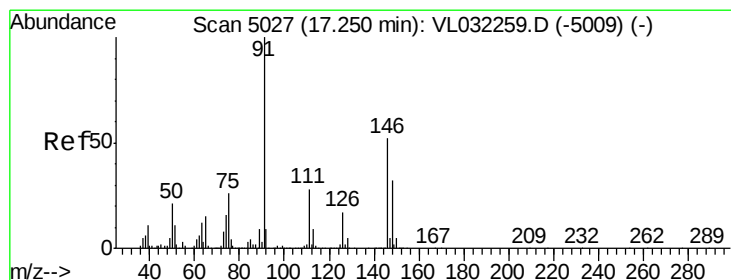
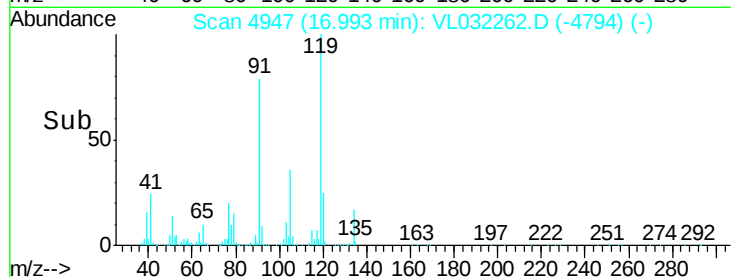
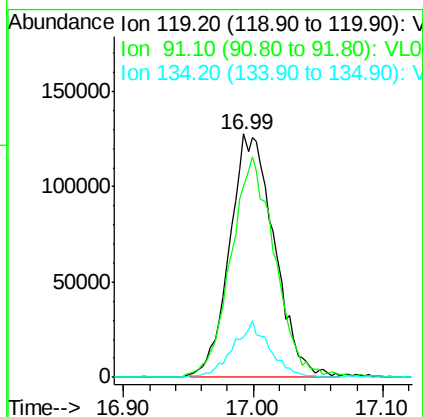
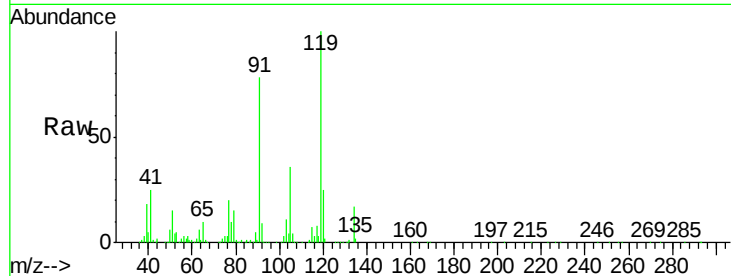
#65
tert-Butylbenzene
Concen: 0.53 ppbv m
RT: 16.99 min Scan# 4947
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	306004		
91	0.0	68.2	102.4#	
134	0.0	15.6	23.4#	

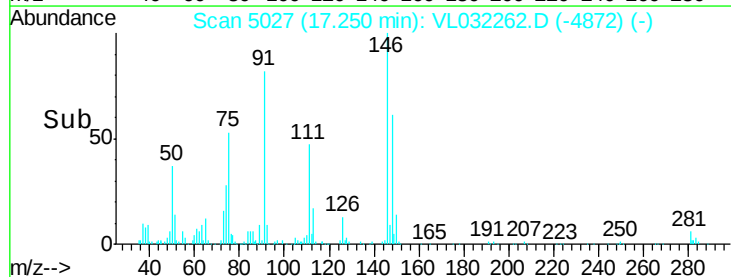
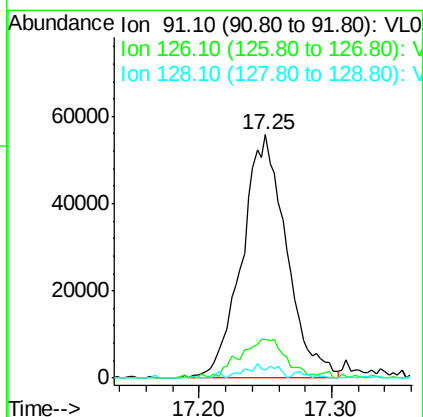
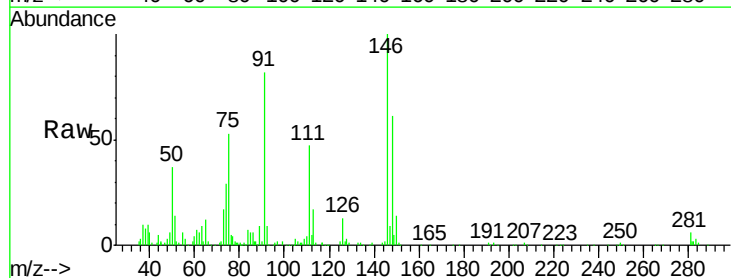
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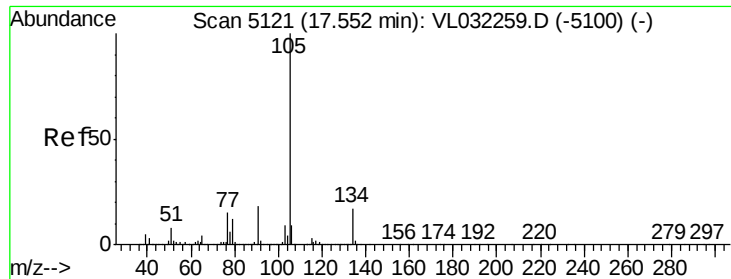
MMDadoda
7/20/2018 2:53:06 PM



#66
Benzyl Chloride
Concen: 0.44 ppbv
RT: 17.25 min Scan# 5027
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	128843		
126	18.6	13.4	20.2	
128	5.3	4.3	6.5	





#67

sec-Butylbenzene

Concen: 0.54 ppbv

RT: 17.55 min Scan# 5120

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 457237

Ion Ratio Lower Upper

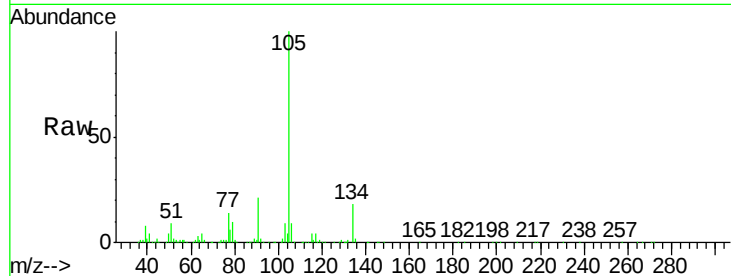
105 100

134 17.9 14.0 21.0

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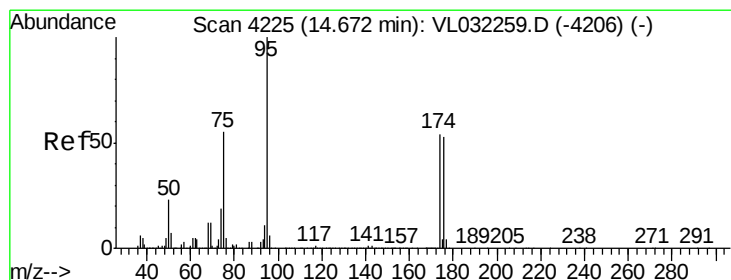
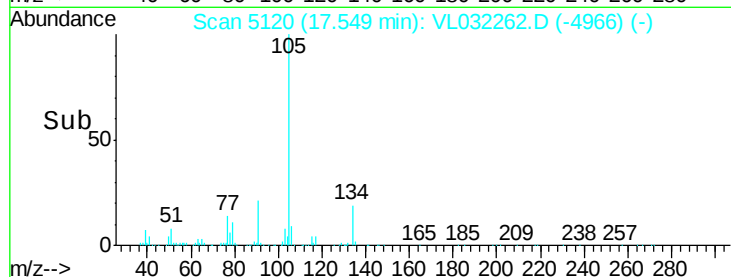
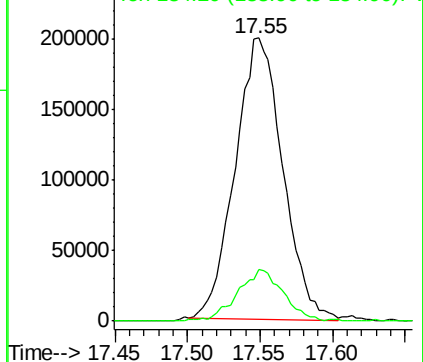
MMDadoda

7/20/2018 2:53:06 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.17 ppbv

RT: 14.66 min Scan# 4223

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

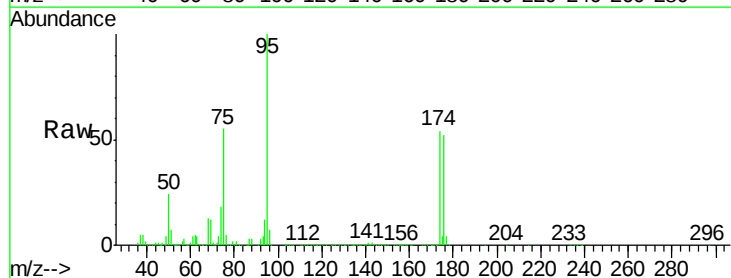
Tgt Ion: 95 Resp: 3291464

Ion Ratio Lower Upper

95 100

174 55.4 44.3 66.5

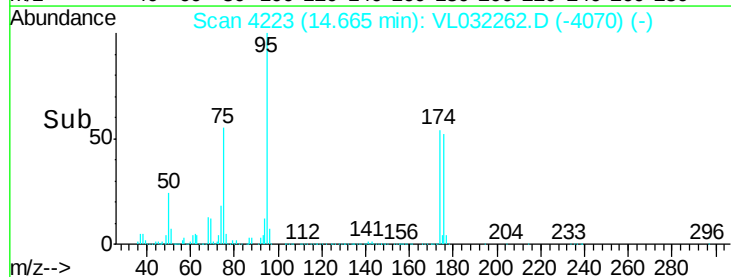
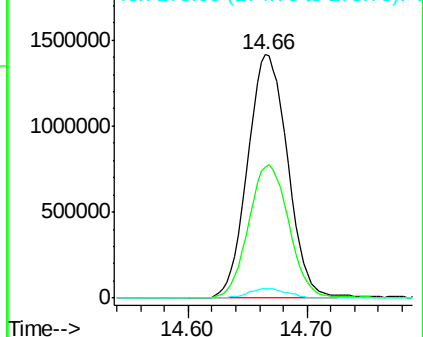
175 4.0 3.3 4.9

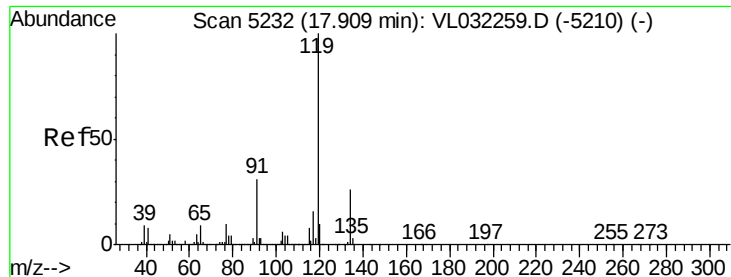


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





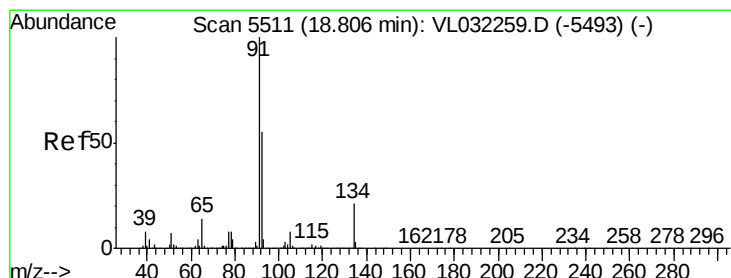
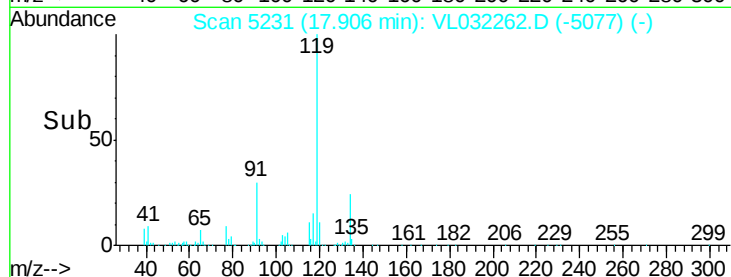
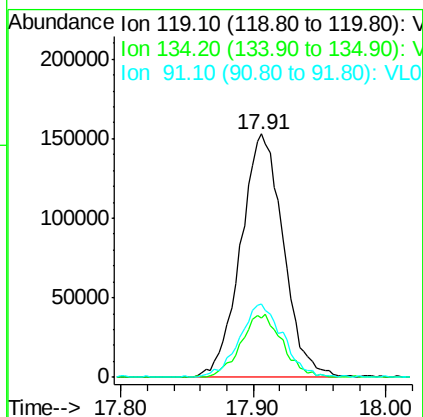
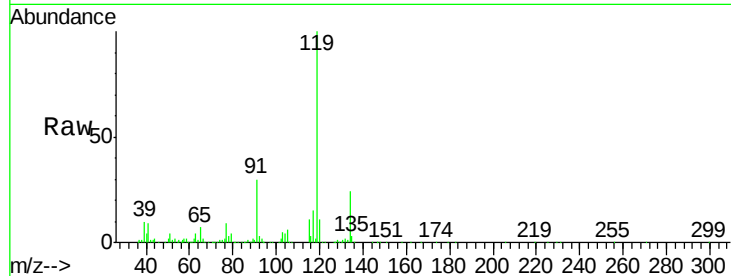
#69
p-Isopropyltoluene
Concen: 0.52 ppbv
RT: 17.91 min Scan# 5231
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	31.0	24.1	36.1

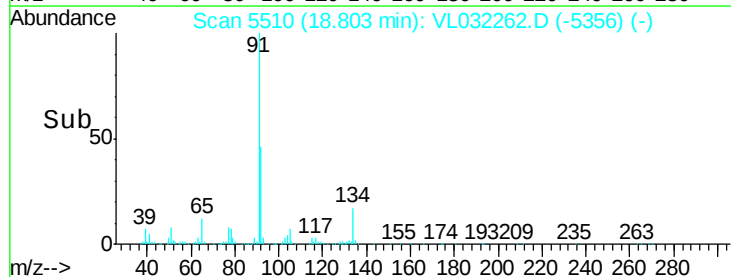
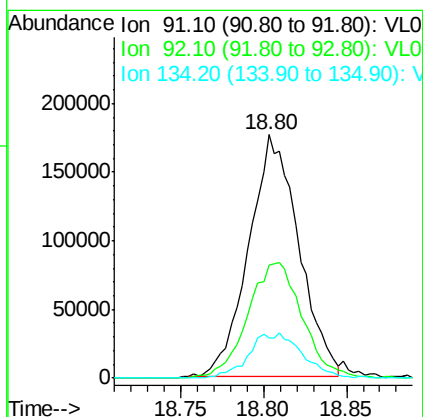
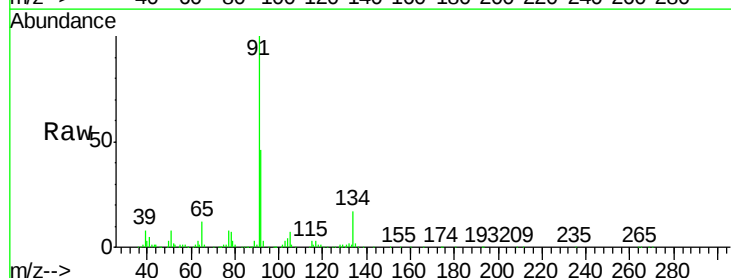
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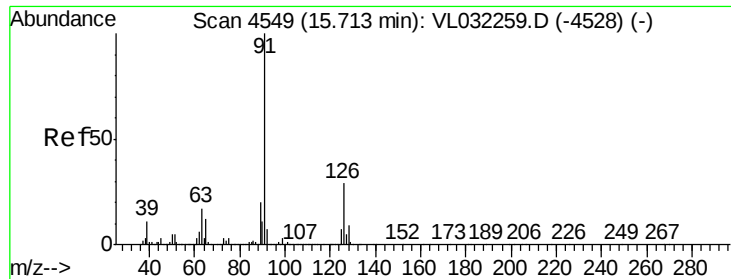
MMDadoda
7/20/2018 2:53:06 PM



#70
n-Butylbenzene
Concen: 0.51 ppbv
RT: 18.80 min Scan# 5510
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	43.8	65.6
134	20.1	17.1	25.7





#71

2-Chlorotoluene

Concen: 0.50 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 270420

Ion Ratio Lower Upper

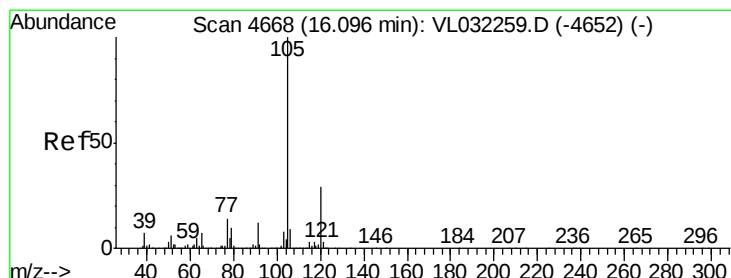
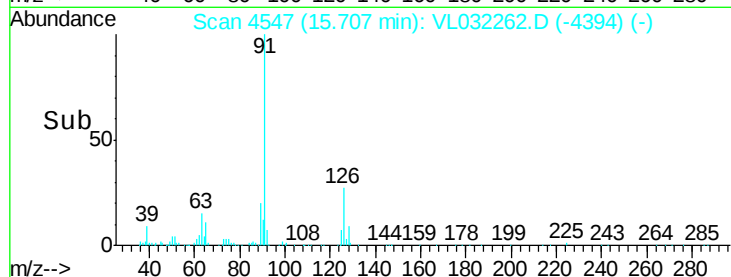
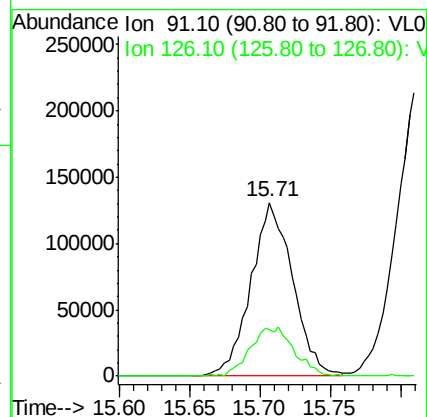
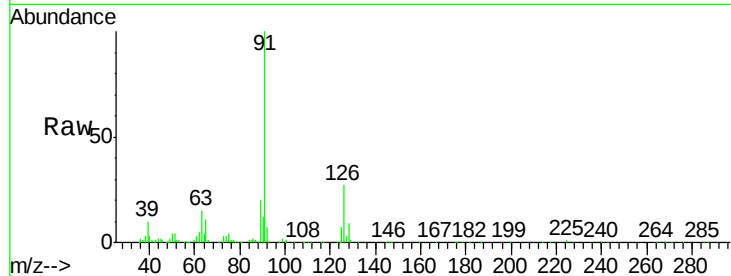
91 100

126 29.7 11.6 46.2

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#72

4-Ethyltoluene

Concen: 0.47 ppbv

RT: 16.09 min Scan# 4666

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 105 Resp: 259331

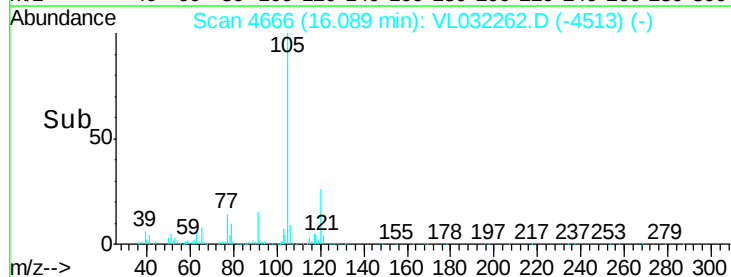
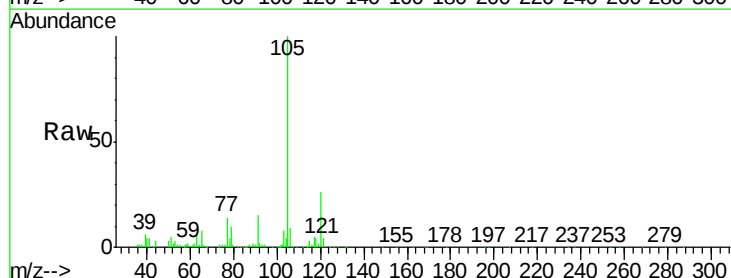
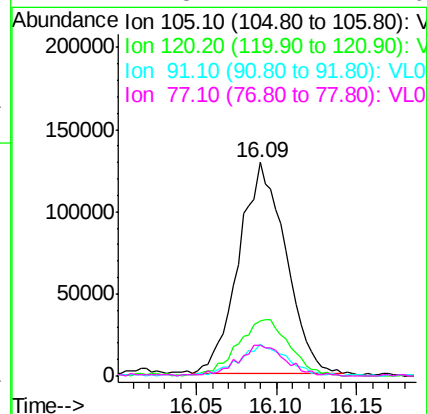
Ion Ratio Lower Upper

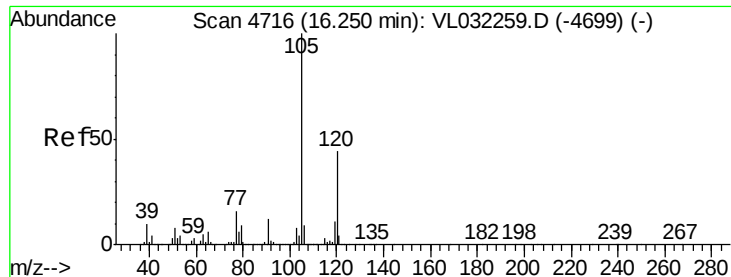
105 100

120 29.6 23.0 34.6

91 15.8 10.1 15.1#

77 14.8 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 0.52 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 266868

Ion Ratio Lower Upper

105 100

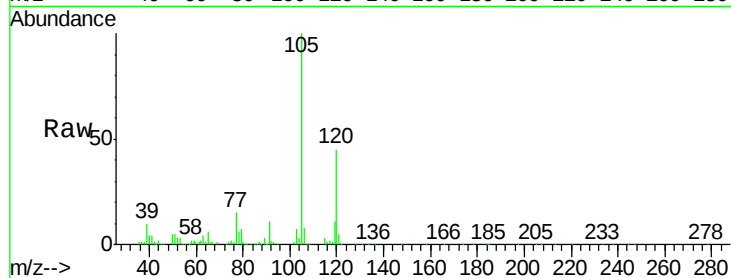
120 43.7 35.5 53.3

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.25

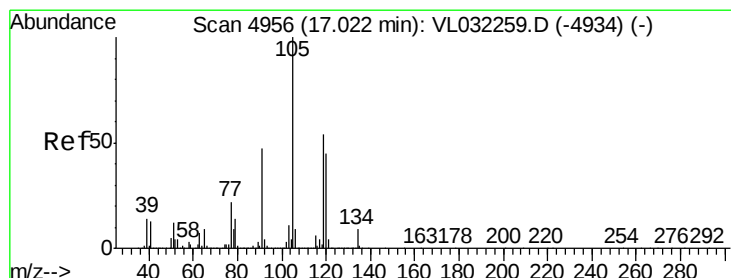
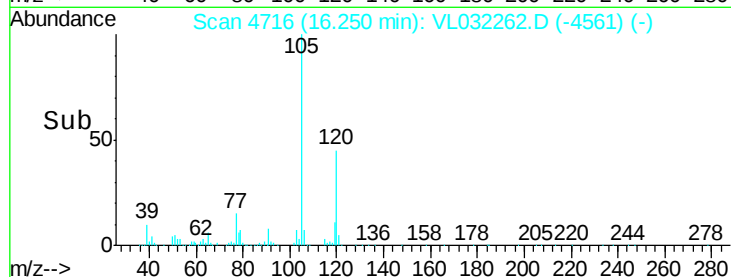
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.58 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:105 Resp: 303677

Ion Ratio Lower Upper

105 100

120 49.5 35.8 53.6

91 45.4 38.2 57.4

77 18.6 17.5 26.3

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

200000

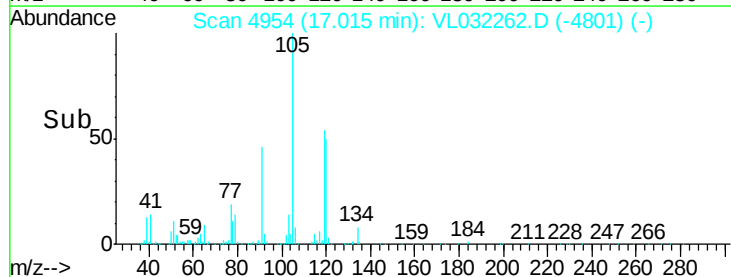
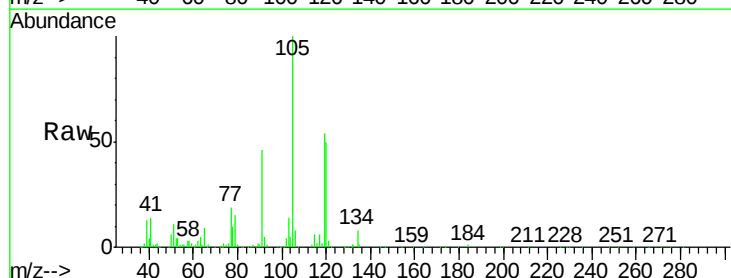
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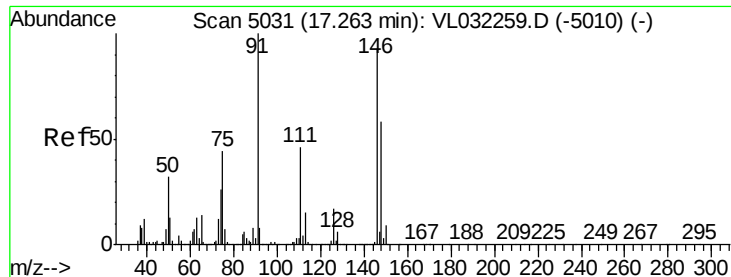
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50000

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Time-->





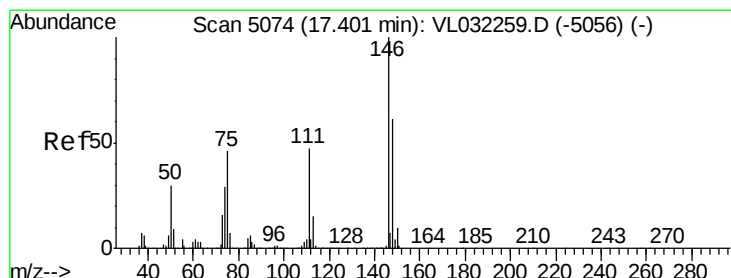
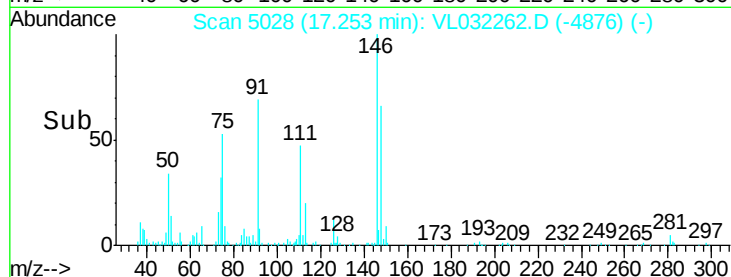
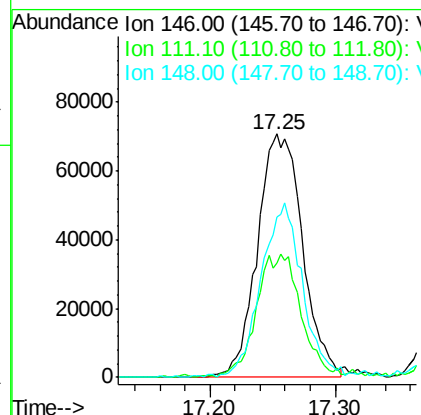
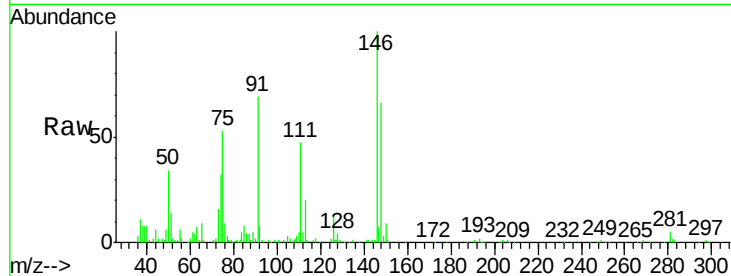
#75
 1,3-Dichlorobenzene
 Concen: 0.56 ppbv m
 RT: 17.25 min Scan# 5028
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.2	25.1	75.4
148	67.1	31.8	95.3

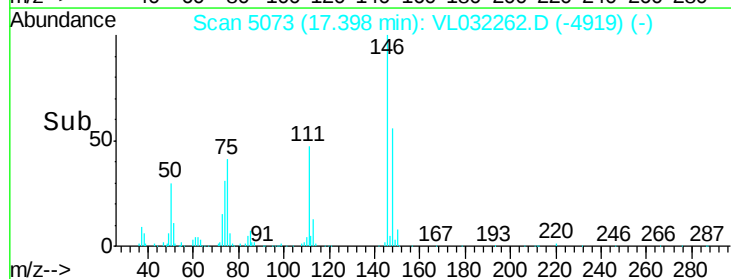
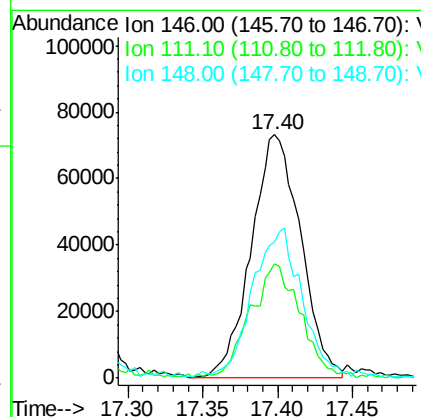
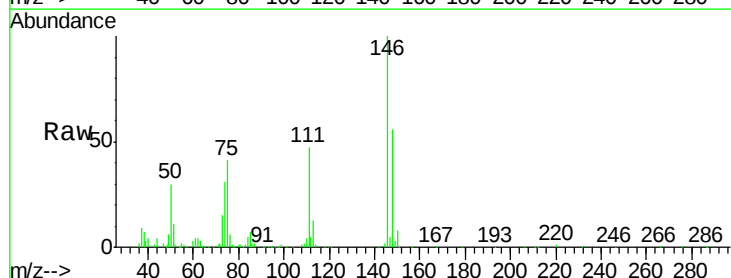
Manual Integrations
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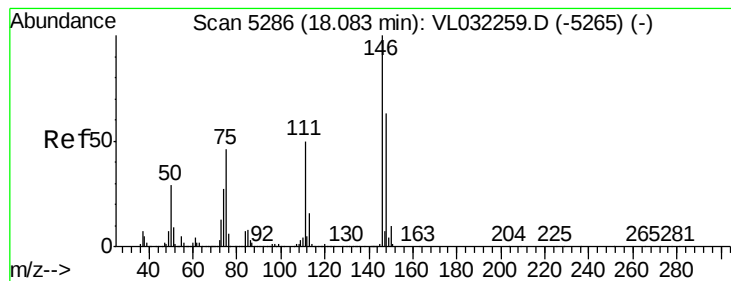
MMDadoda
 7/20/2018 2:53:06 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.54 ppbv
 RT: 17.40 min Scan# 5073
 Delta R.T. -0.00 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.1	72.2
148	63.5	31.9	95.9





#77

1,2-Dichlorobenzene

Concen: 0.54 ppbv m

RT: 18.08 min Scan# 5284

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

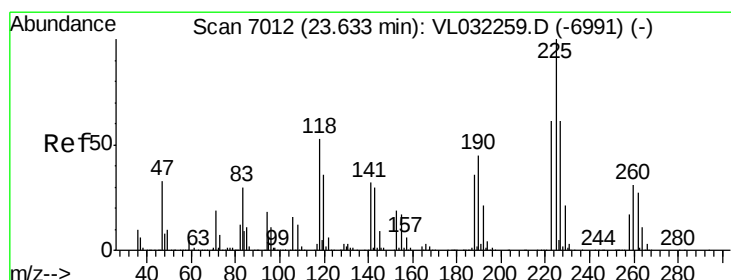
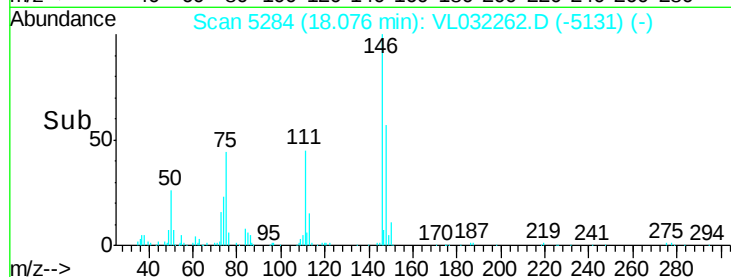
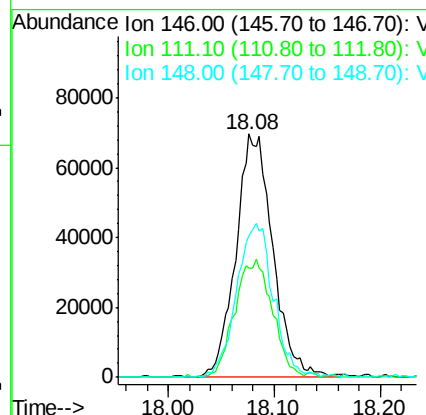
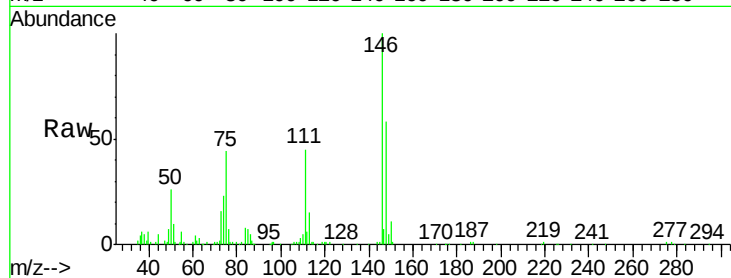
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	168631
Ion Ratio	Lower	Upper	
146	100		
111	0.0	25.6	76.8#
148	0.0	31.9	95.5#

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.57 ppbv m

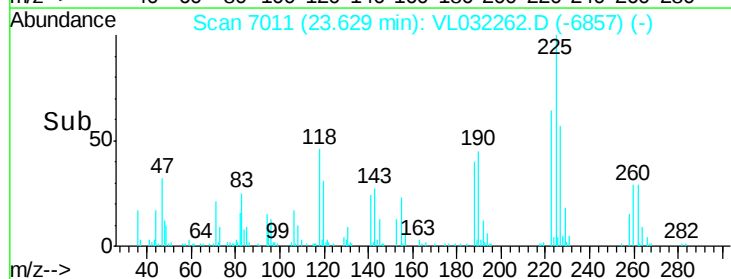
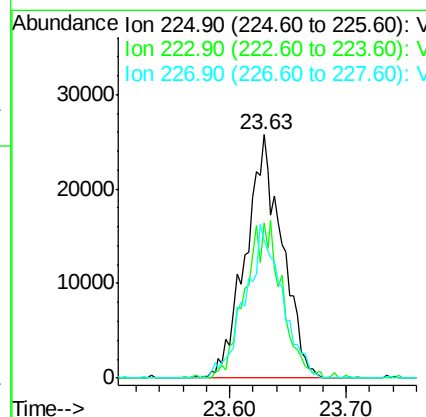
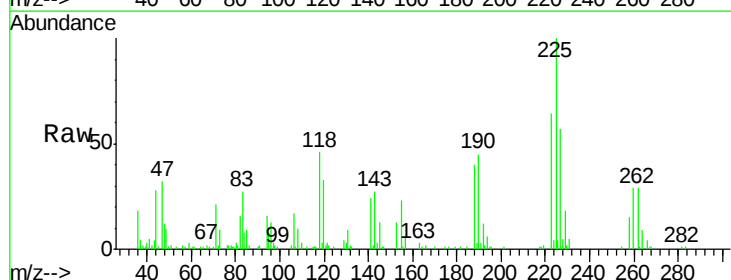
RT: 23.63 min Scan# 7011

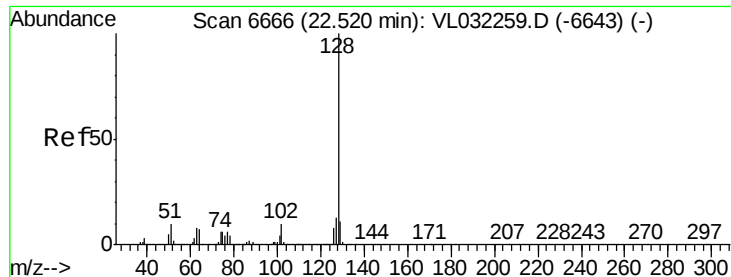
Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion:	225	Resp:	55900
Ion Ratio	Lower	Upper	
225	100		
223	0.0	50.6	75.8#
227	63.3	51.5	77.3





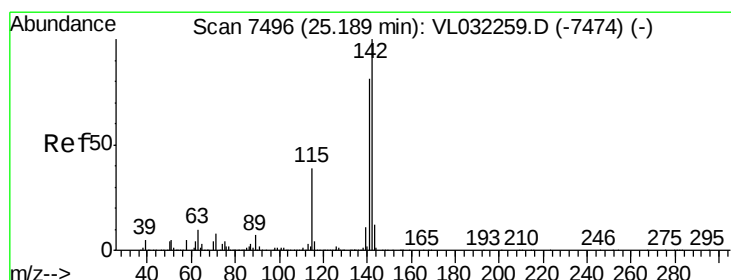
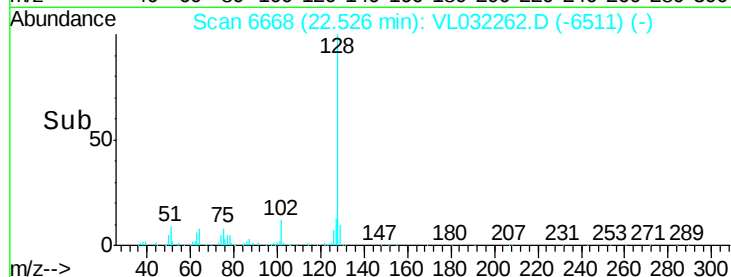
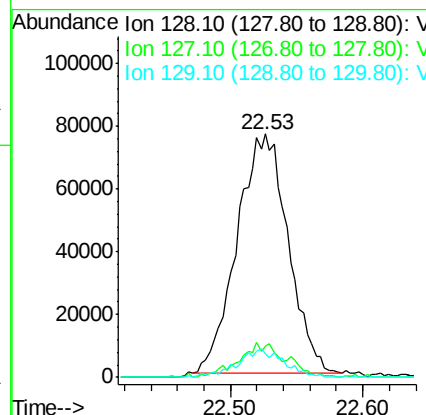
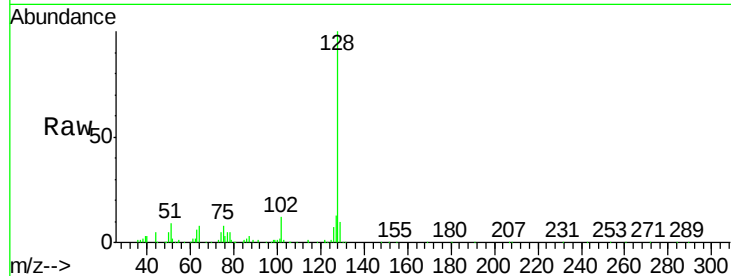
#79
Naphthalene
Concen: 0.58 ppbv
RT: 22.53 min Scan# 6668
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.0	8.6	12.8

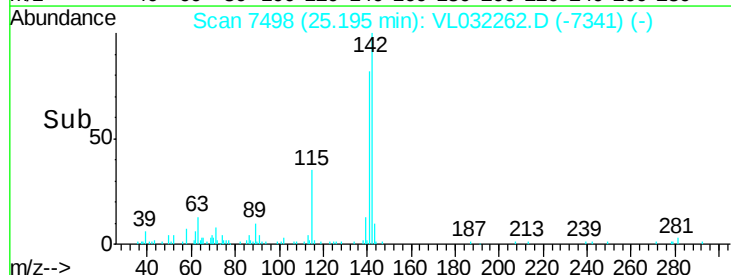
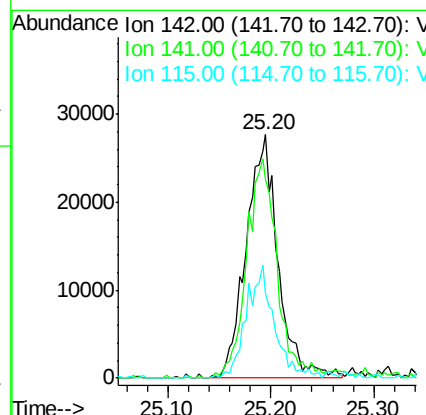
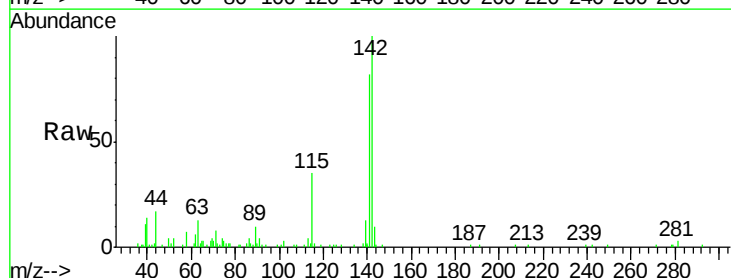
Manual Integrations
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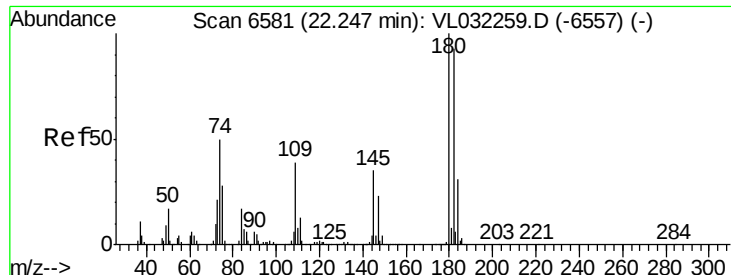
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#80
Naphthalene, 2-methyl-
Concen: 0.53 ppbv
RT: 25.20 min Scan# 7498
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	67.1	100.7
115	40.5	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 0.61 ppbv m
 RT: 22.25 min Scan# 6583
 Delta R.T. 0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	108934		
182	94.9		76.6	114.8
184	29.4		24.4	36.6

Manual Integrations
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