

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032453.D
 Acq On : 5 Sep 2018 10:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:47 AM

Quant Time: Sep 06 05:05:15 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1370930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3127403	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3136215m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2280812	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1246721	7.11	ppbv	100
3) Chlorodifluoromethane	3.04	51	1246395	10.04	ppbv	98
4) Chloromethane	3.20	50	730196	9.72	ppbv	99
5) Vinyl Chloride	3.32	62	698329	9.42	ppbv	100
6) Bromomethane	3.54	94	392927	10.09	ppbv	96
7) Chloroethane	3.63	64	248414	9.68	ppbv	98
8) Dichlorotetrafluoroethane	3.25	85	1489182	9.57	ppbv	95
9) Propene	3.06	41	648784	12.96	ppbv	97
10) Heptane	8.29	43	2100963	11.70	ppbv	99
11) Trichlorofluoromethane	4.04	101	1476933	9.34	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1027787	9.59	ppbv	96
13) Ethanol	3.68	45	147013	9.42	ppbv	99
14) Bromoethene	3.82	108	489421	10.78	ppbv	99
15) Acetone	3.93	43	1211741	9.82	ppbv	98
16) 1,3-Butadiene	3.39	39	589626	10.15	ppbv	93
17) tert-Butyl alcohol	4.39	59	196471	10.34	ppbv #	100
18) 1,1-Dichloroethene	4.39	96	499539	10.20	ppbv	99
19) Isopropyl Alcohol	4.05	45	984181	12.15	ppbv #	8
20) Methylene Chloride	4.44	84	418238	8.88	ppbv	96
21) Allyl Chloride	4.51	41	897723	10.95	ppbv	96
22) trans-1,2-Dichloroethene	5.00	96	500203	9.41	ppbv	98
23) Vinyl Acetate	5.19	43	2314636	11.31	ppbv #	98
24) 1,1-Dichloroethane	5.13	63	1537659	9.12	ppbv	98
25) Ethyl Acetate	5.81	43	3035165	10.41	ppbv	99
26) Hexane	5.82	57	1345748	10.31	ppbv	95
27) Carbon Disulfide	4.66	76	1223223	10.15	ppbv	98
28) Methyl tert-Butyl Ether	5.15	73	1850168	11.54	ppbv	99
29) Chloroform	5.89	83	1943449	9.76	ppbv	98
30) Cyclohexane	7.30	84	1168508	12.22	ppbv	99
31) cis-1,2-Dichloroethene	5.68	61	1411467	11.94	ppbv	95
32) 1,1,1-Trichloroethane	6.67	97	1871824	10.09	ppbv	97
34) 2-Butanone	5.37	43	2091027	10.07	ppbv	99
35) Carbon Tetrachloride	7.18	117	1842827	8.77	ppbv	98
36) Benzene	7.05	78	2799572	10.52	ppbv	99
37) 1,2-Dichloroethane	6.46	62	1468265	9.00	ppbv	98
38) Trichloroethene	8.01	130	1051374	10.40	ppbv	97
39) 1,2-Dichloropropane	7.78	63	1129238	9.92	ppbv	97
40) 1,4-Dioxane	8.00	88	423888	12.41	ppbv	69
41) Tetrahydrofuran	6.19	42	1311214	11.59	ppbv	100
42) Bromodichloromethane	7.96	83	2309678	10.27	ppbv	100
43) Methyl Methacrylate	8.18	69	1287208	11.40	ppbv	94

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	5257331	10.22	ppbv	99
45) t-1,3-Dichloropropene	9.46	75	1585017	13.12	ppbv	98
46) cis-1,3-Dichloropropene	8.88	75	1916170	12.41	ppbv	100
47) 1,1,2-Trichloroethane	9.67	97	1211651	10.01	ppbv	98
48) Dibromochloromethane	10.50	129	1715629	10.23	ppbv	99
49) Bromoform	13.26	173	1461010	10.02	ppbv	100
50) 4-Methyl-2-Pentanone	8.92	43	3260146	10.42	ppbv	99
51) 2-Hexanone	10.32	43	2414664	11.98	ppbv #	100
52) Tetrachloroethene	11.43	164	867337	10.51	ppbv	95
53) Toluene	10.00	91	3149186	11.32	ppbv	100
54) 1,2-Dibromoethane	10.81	107	1826795	11.24	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.33	131	1250036	8.84	ppbv #	60
57) Chlorobenzene	12.36	112	2305096	9.20	ppbv	97
58) Ethyl Benzene	12.91	91	4299080	11.45	ppbv	98
59) m/p-Xylene	13.20	91	6848054m	20.47	ppbv	
60) o-Xylene	13.90	91	3295121	10.03	ppbv	99
61) Styrene	13.74	104	2628047	12.35	ppbv	99
62) Isopropylbenzene	14.88	105	4775041	10.33	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.89	83	2384529	8.11	ppbv	100
64) n-propylbenzene	15.77	120	1267895	10.50	ppbv	100
65) tert-Butylbenzene	16.96	119	4049674	10.17	ppbv	98
66) Benzyl Chloride	17.21	91	2613471	11.78	ppbv	99
67) sec-Butylbenzene	17.51	105	6104827	10.20	ppbv	99
69) p-Isopropyltoluene	17.87	119	4886578	10.53	ppbv	99
70) n-Butylbenzene	18.77	91	5360411	10.19	ppbv	100
71) 2-Chlorotoluene	15.67	91	3805054	10.78	ppbv	100
72) 4-Ethyltoluene	16.05	105	4049102	11.28	ppbv	99
73) 1,3,5-Trimethylbenzene	16.21	105	3848417	10.70	ppbv	97
74) 1,2,4-Trimethylbenzene	16.98	105	3760790	9.57	ppbv	92
75) 1,3-Dichlorobenzene	17.22	146	2115977	9.07	ppbv	99
76) 1,4-Dichlorobenzene	17.36	146	2172169	10.04	ppbv	100
77) 1,2-Dichlorobenzene	18.04	146	2158776	9.59	ppbv	99
78) Hexachloro-1,3-Butadiene	23.59	225	712730	8.48	ppbv	100
79) Naphthalene	22.47	128	3855302	12.06	ppbv	98
80) Naphthalene, 2-methyl-	25.15	142	1528298	17.97	ppbv	100
81) 1,2,4-Trichlorobenzene	22.19	180	1805679	11.22	ppbv	100

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

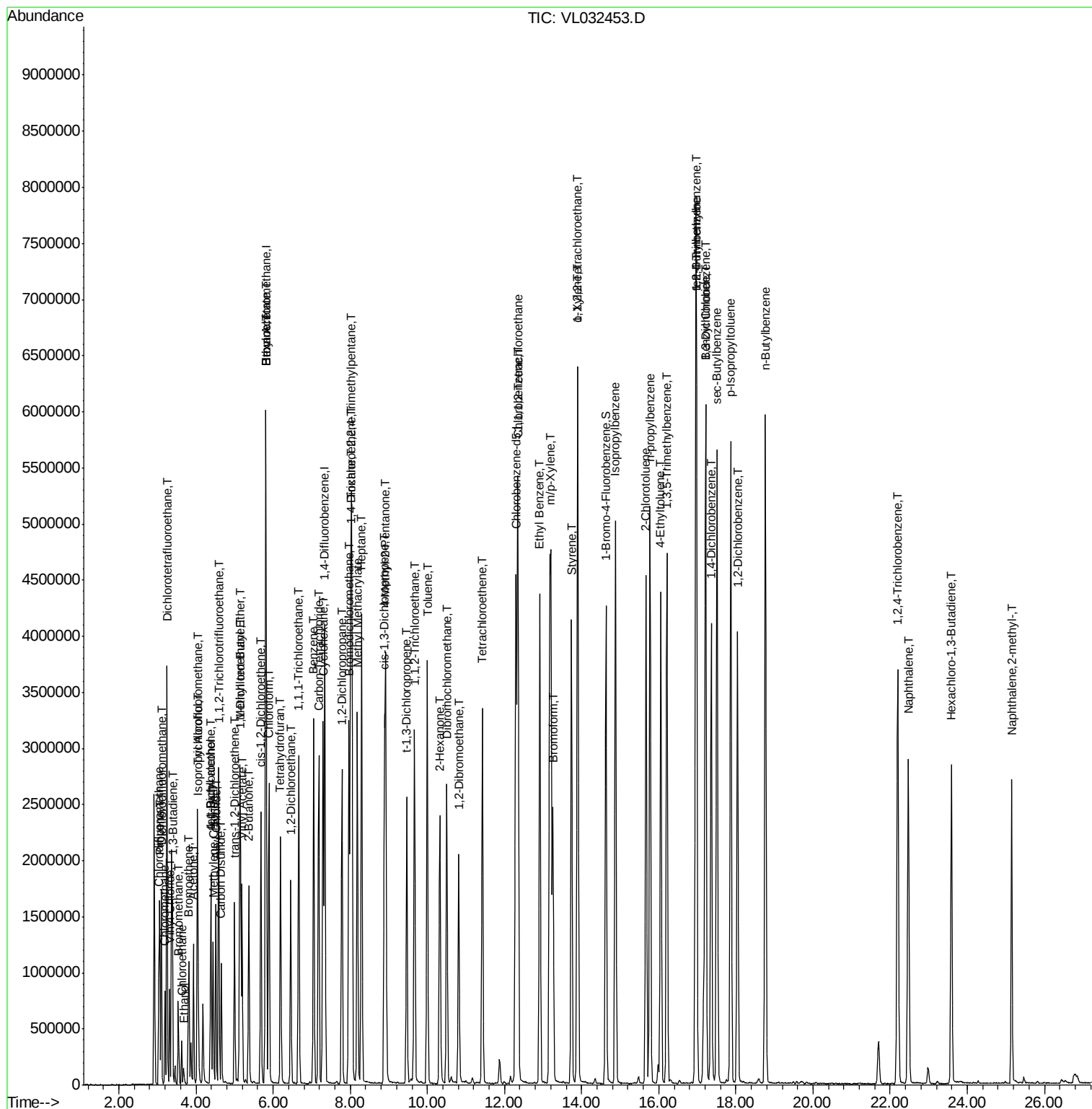
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
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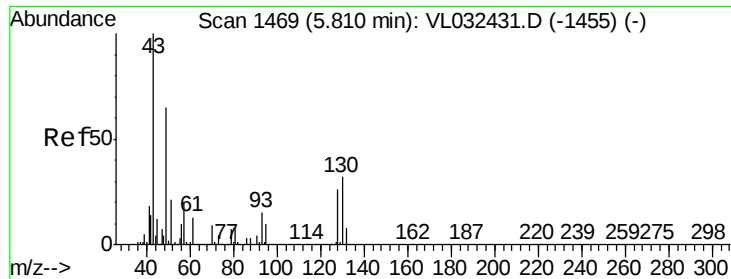
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 1467

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1370930

Ion Ratio Lower Upper

49 100

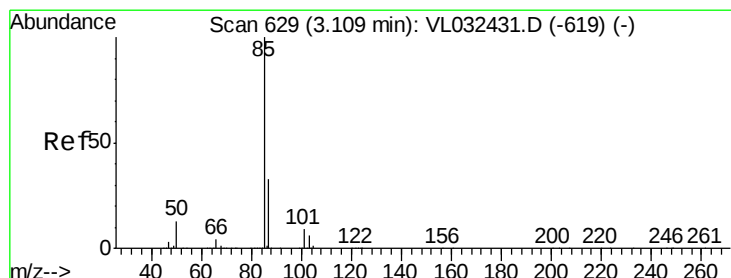
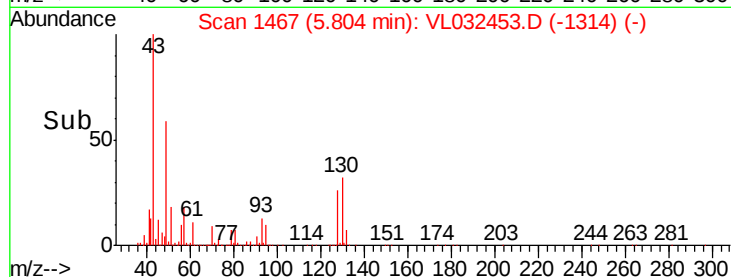
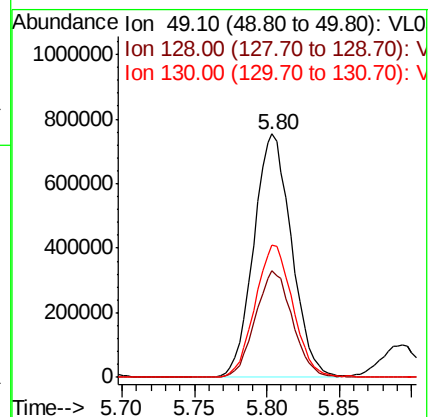
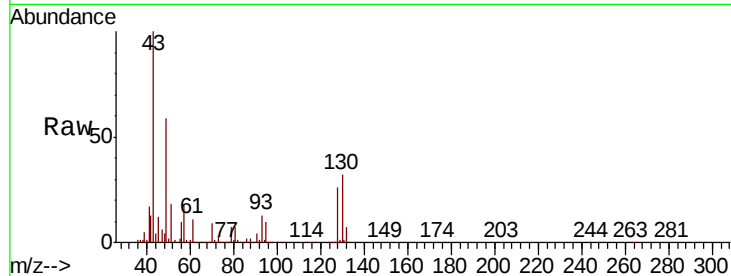
128 43.3 20.7 62.1

130 54.5 26.6 79.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.11 ppbv

RT: 3.10 min Scan# 627

Delta R.T. -0.01 min

Lab File: VL032453.D

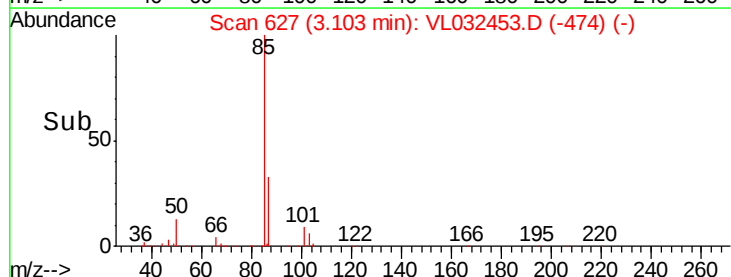
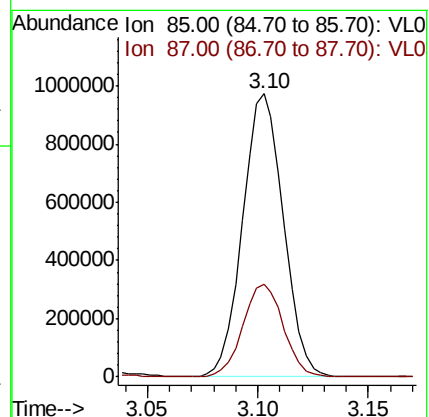
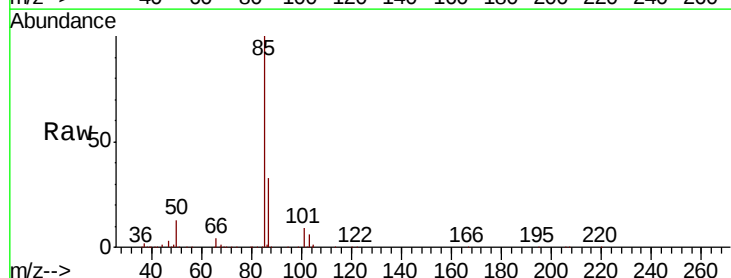
Acq: 5 Sep 2018 10:53

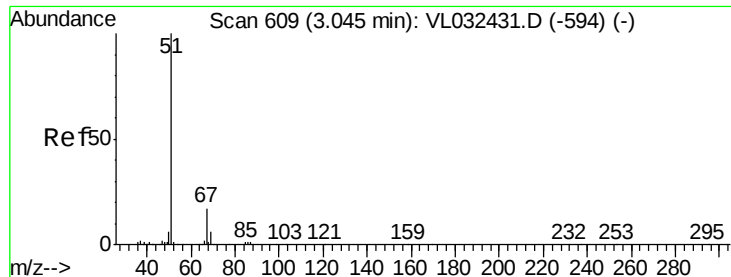
Tgt Ion: 85 Resp: 1246721

Ion Ratio Lower Upper

85 100

87 32.7 26.2 39.4





#3

Chlorodifluoromethane

Concen: 10.04 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tot Ion: 51 Resp: 1246395

Ion Ratio Lower Upper

51 100

67 16.4 13.8 20.8

Instrument :

MSVOA_L

ClientSampleId :

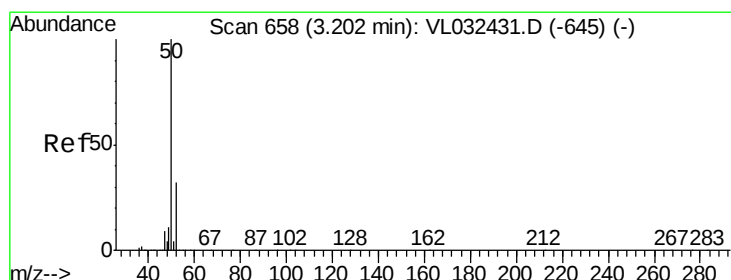
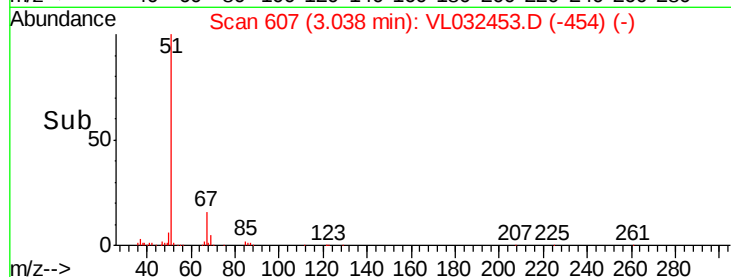
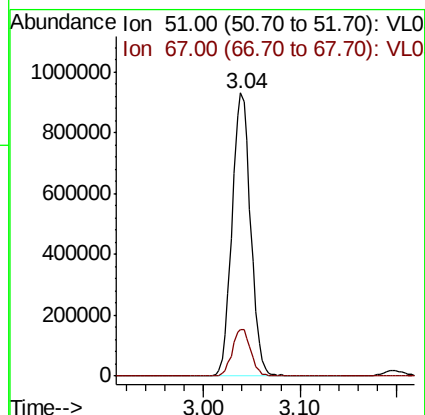
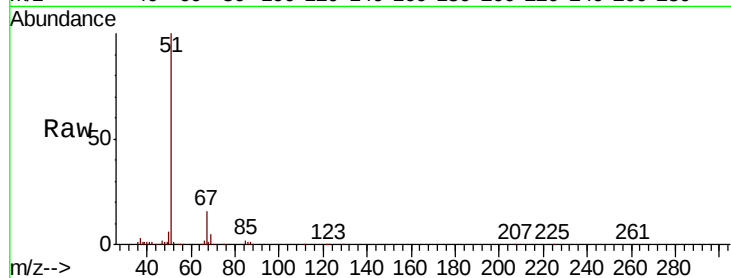
VSTDCCC010

Manual Integrations

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#4

Chloromethane

Concen: 9.72 ppbv

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL032453.D

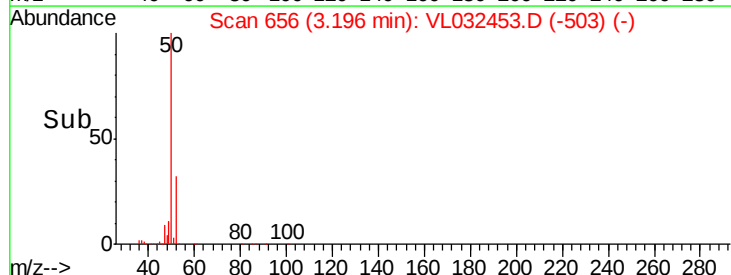
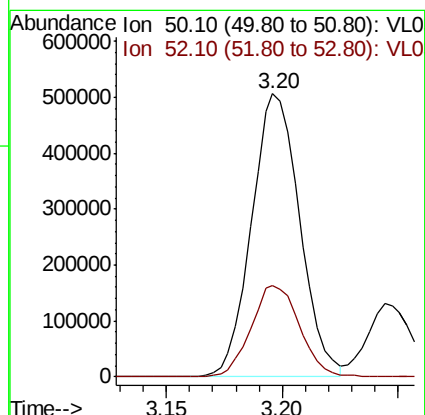
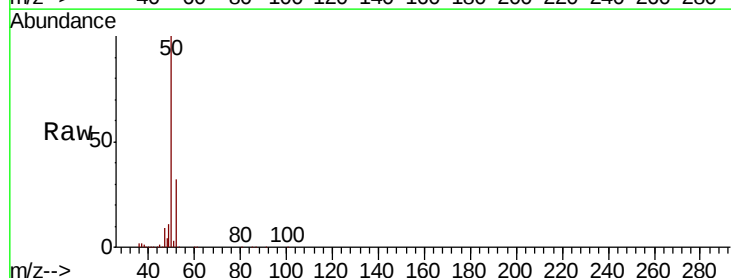
Acq: 5 Sep 2018 10:53

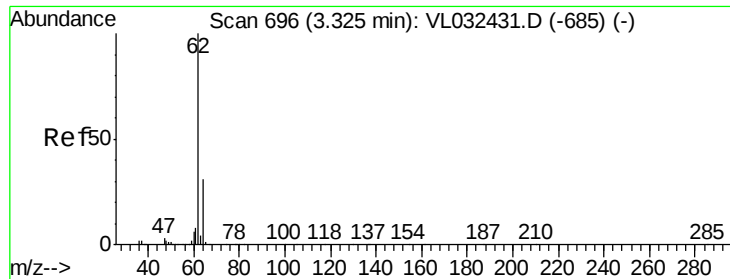
Tgt Ion: 50 Resp: 730196

Ion Ratio Lower Upper

50 100

52 32.4 25.6 38.4





#5

Vinyl Chloride

Concen: 9.42 ppbv

RT: 3.32 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 698329

Ion Ratio Lower Upper

62 100

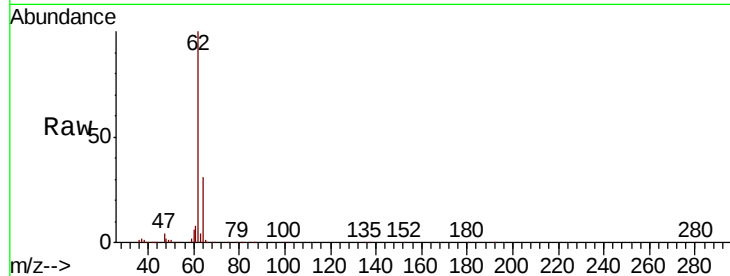
64 31.3 25.0 37.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

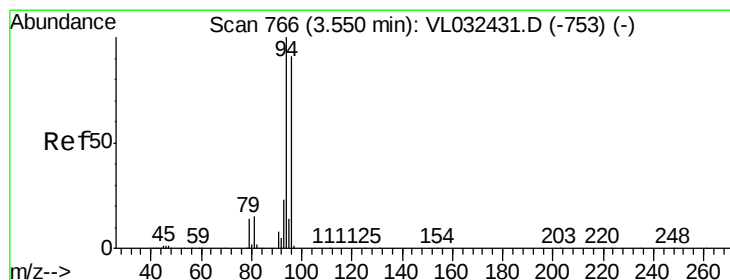
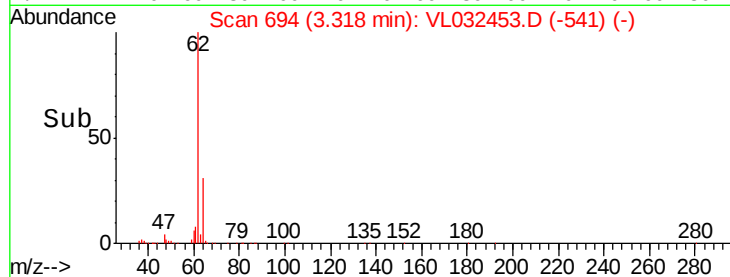
200000

100000

0

3.25 3.30 3.35 3.40

Time-->



#6

Bromomethane

Concen: 10.09 ppbv

RT: 3.54 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL032453.D

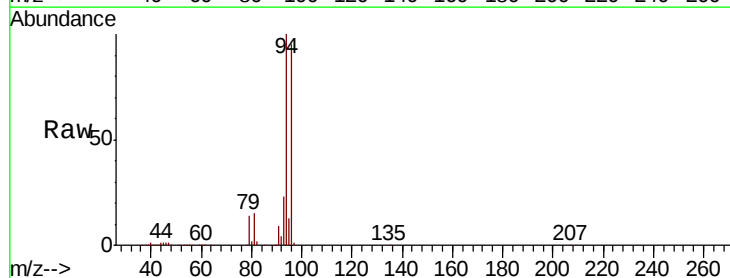
Acq: 5 Sep 2018 10:53

Tgt Ion: 94 Resp: 392927

Ion Ratio Lower Upper

94 100

96 94.7 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

250000

200000

150000

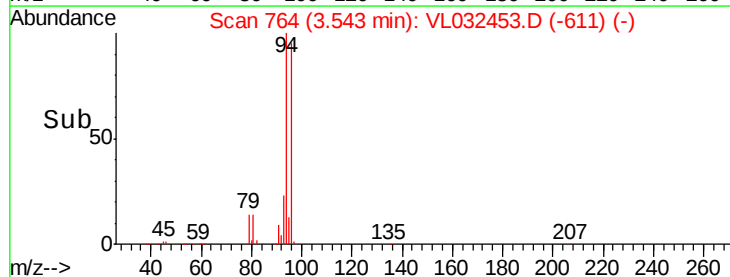
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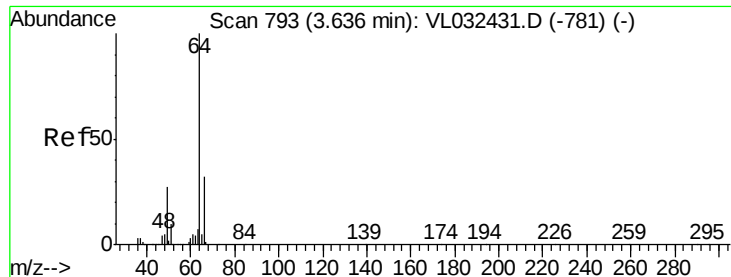
50000

0

3.50 3.55 3.60

Time-->





#7

Chloroethane

Concen: 9.68 ppbv

RT: 3.63 min Scan# 791

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 248414

Ion Ratio Lower Upper

64 100

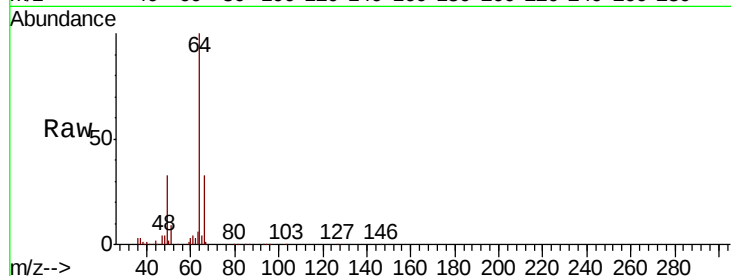
66 33.2 25.8 38.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.63

200000

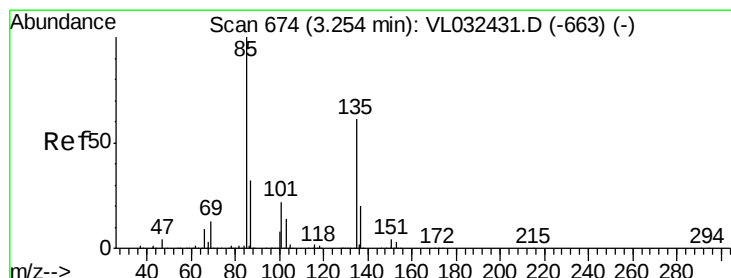
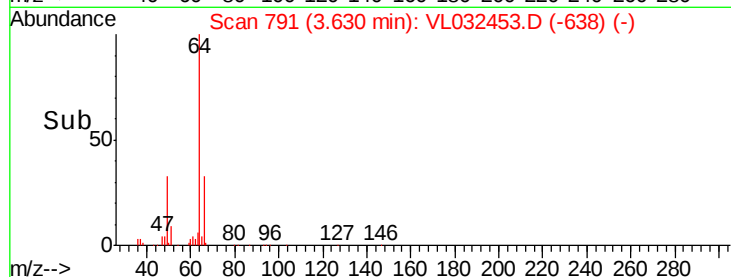
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.57 ppbv

RT: 3.25 min Scan# 672

Delta R.T. -0.01 min

Lab File: VL032453.D

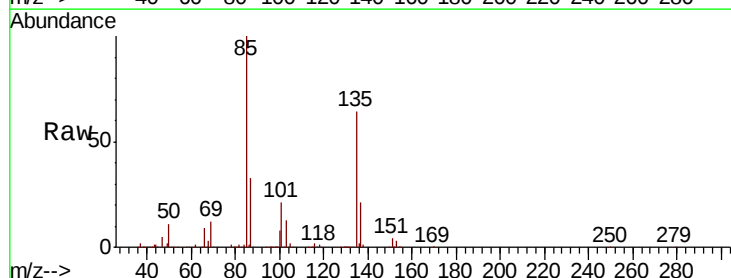
Acq: 5 Sep 2018 10:53

Tgt Ion: 85 Resp: 1489182

Ion Ratio Lower Upper

85 100

135 64.4 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.25

1200000

1000000

800000

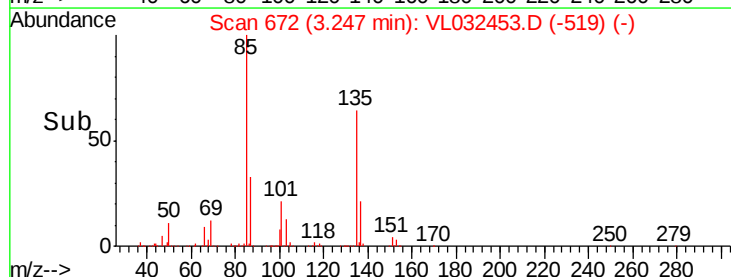
600000

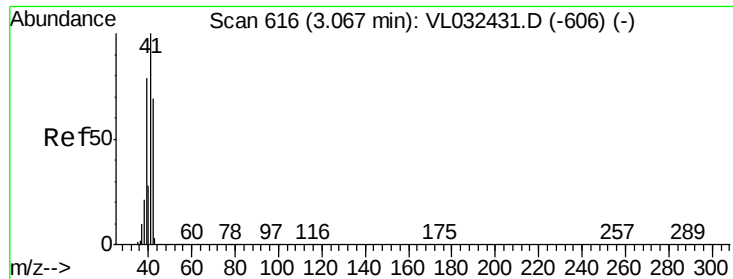
400000

200000

0

Time-->





#9

Propene

Concen: 12.96 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 648784

Ion Ratio Lower Upper

41 100

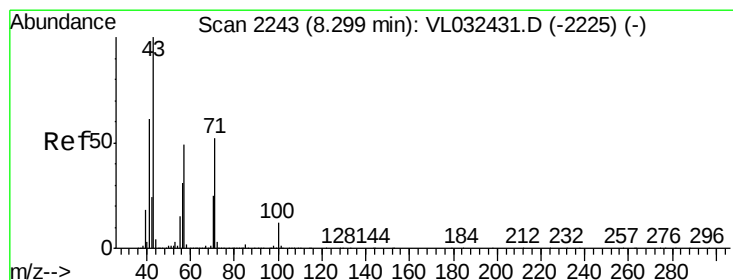
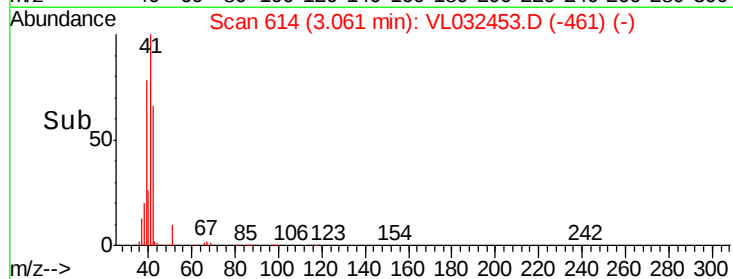
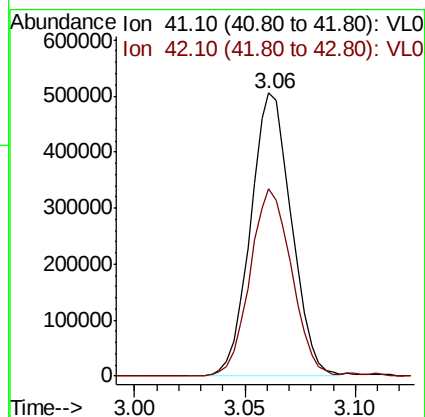
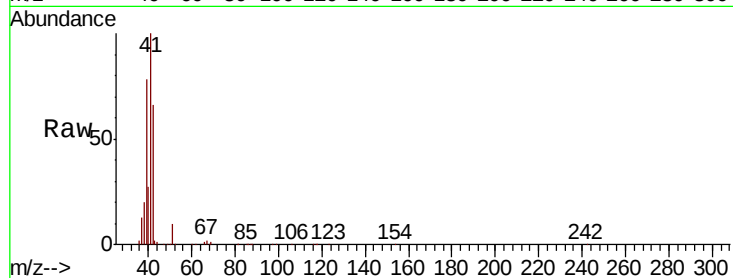
42 68.3 56.6 84.8

Manual Integrations

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MMDadoda

9/7/2018 10:45:47 AM



#10

Heptane

Concen: 11.70 ppbv

RT: 8.29 min Scan# 2241

Delta R.T. -0.01 min

Lab File: VL032453.D

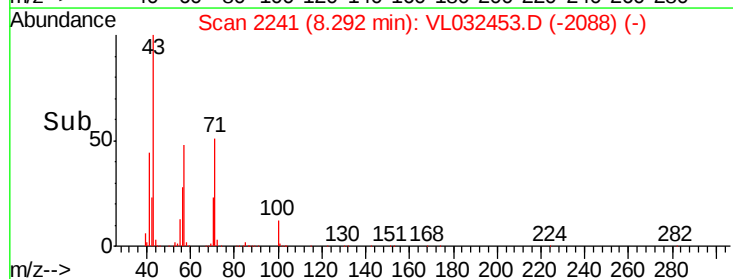
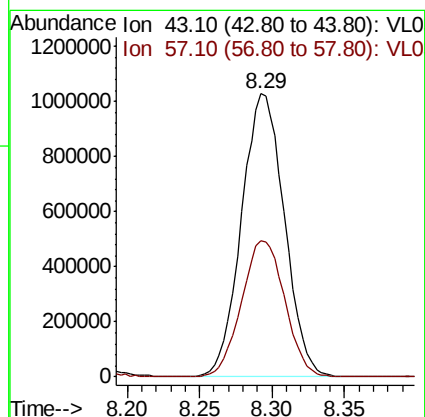
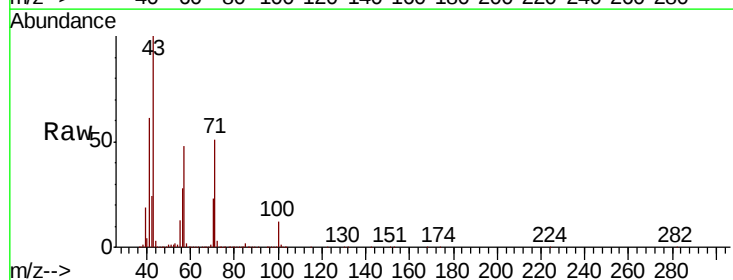
Acq: 5 Sep 2018 10:53

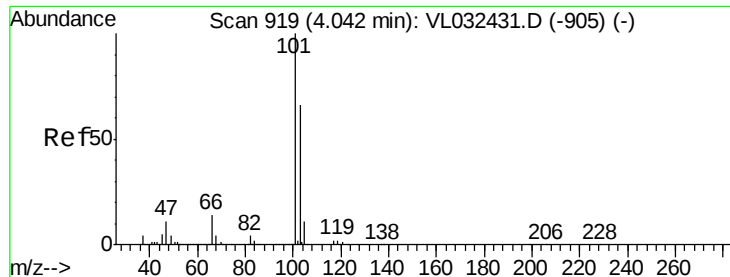
Tgt Ion: 43 Resp: 2100963

Ion Ratio Lower Upper

43 100

57 49.1 39.6 59.4





#11

Trichlorofluoromethane

Concen: 9.34 ppbv

RT: 4.04 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1476933

Ion Ratio Lower Upper

101 100

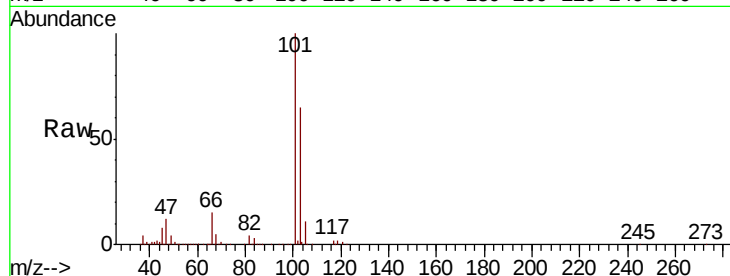
103 64.7 52.8 79.2

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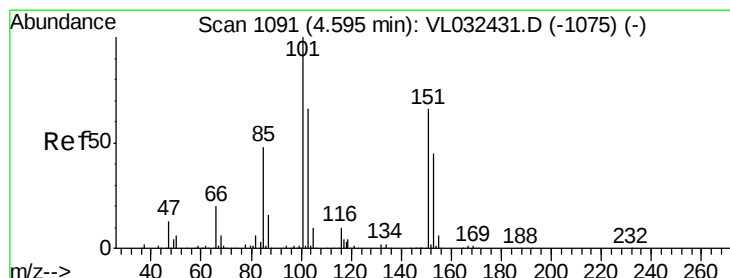
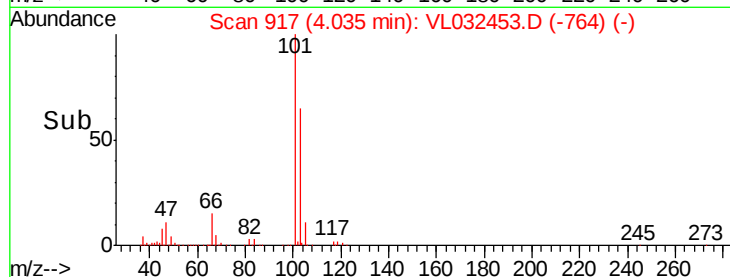
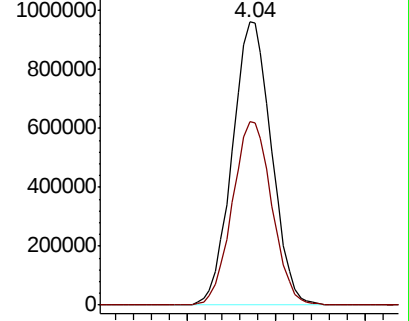
MMDadoda

9/7/2018 10:45:47 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.59 ppbv

RT: 4.59 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VL032453.D

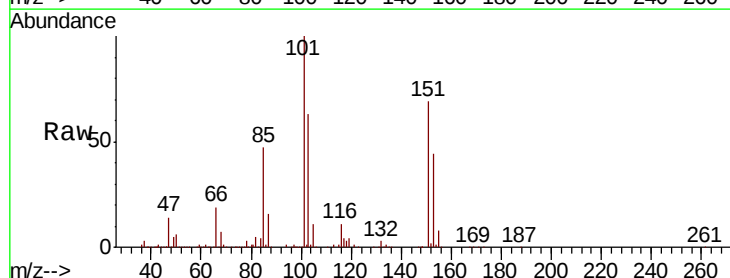
Acq: 5 Sep 2018 10:53

Tgt Ion:101 Resp: 1027787

Ion Ratio Lower Upper

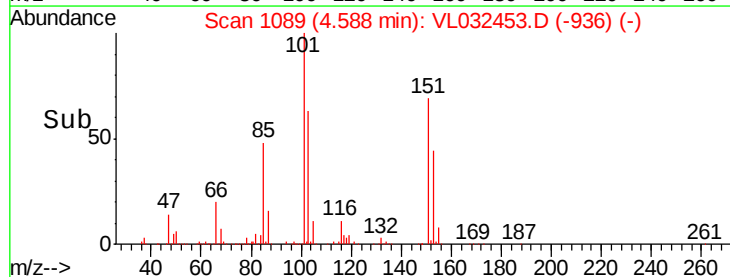
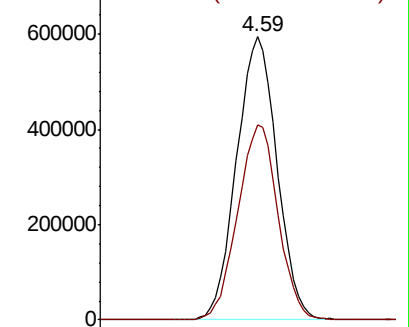
101 100

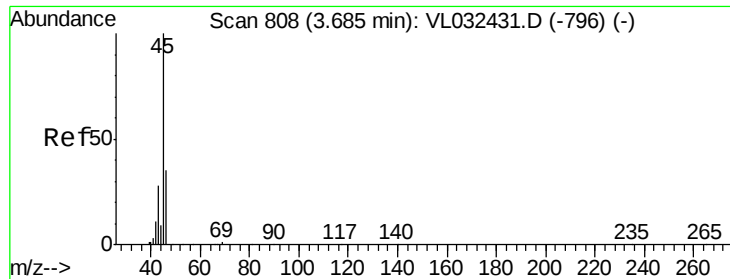
151 69.1 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





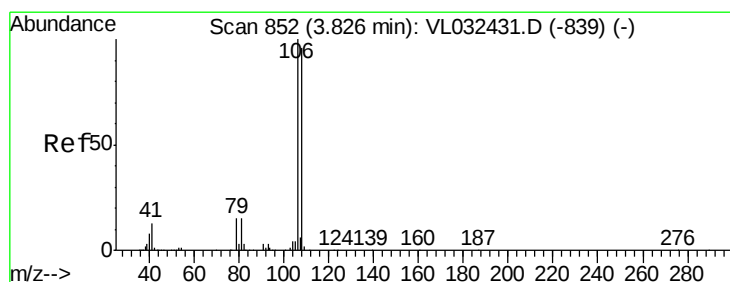
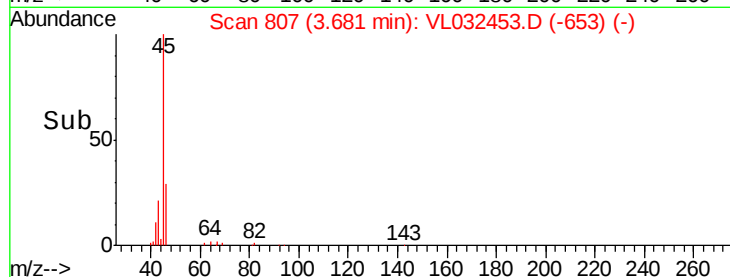
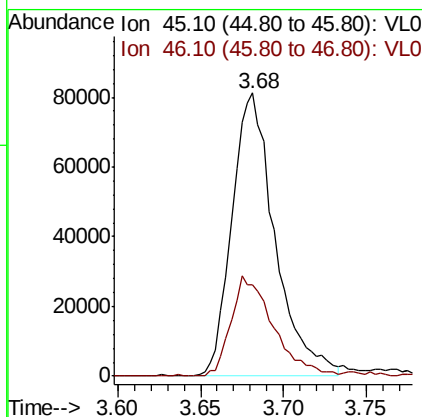
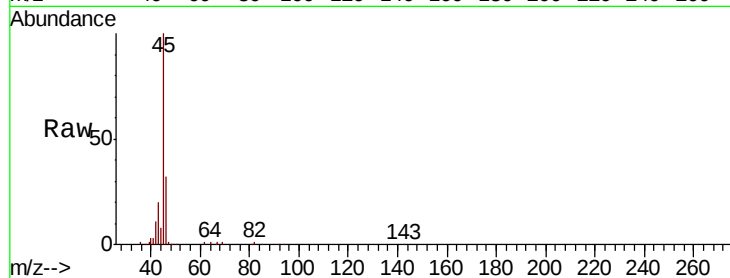
#13
Ethanol
Concen: 9.42 ppbv
RT: 3.68 min Scan# 807
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	147013
Ion Ratio	100	Lower	Upper
46	35.8	14.2	56.8

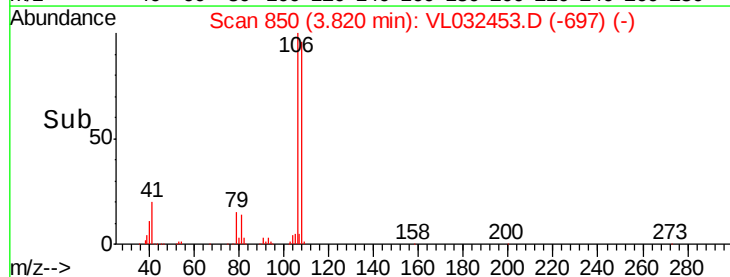
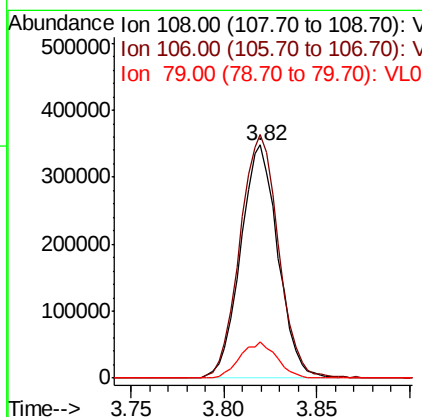
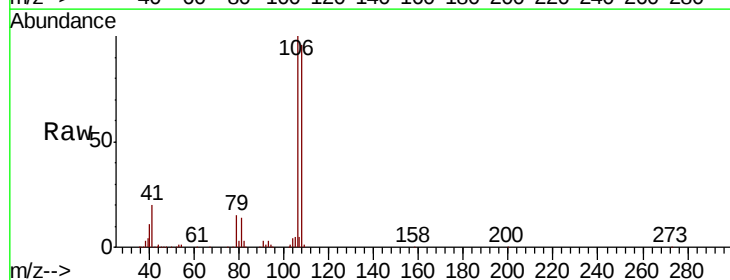
Manual Integrations
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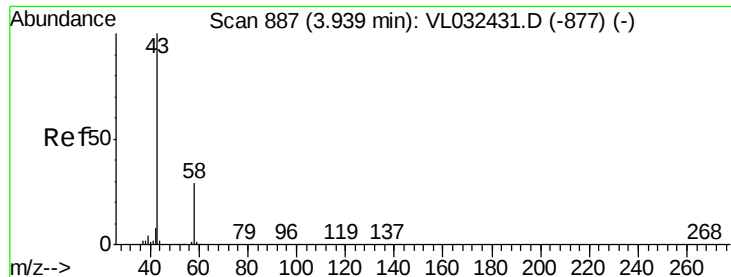
MMDadoda
9/7/2018 10:45:47 AM



#14
Bromoethene
Concen: 10.78 ppbv
RT: 3.82 min Scan# 850
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	108	Resp	489421
Ion Ratio	100	Lower	Upper
106	108.3	85.5	128.3
79	15.6	13.0	19.6





#15

Acetone

Concen: 9.82 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1211741

Ion Ratio Lower Upper

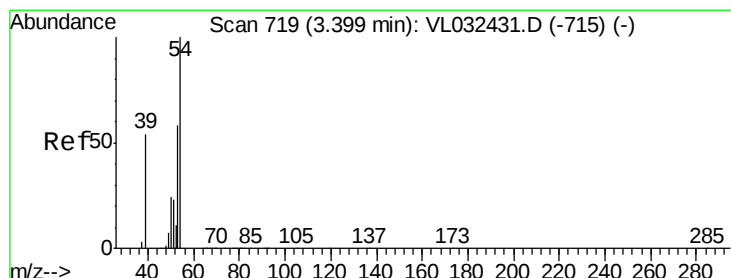
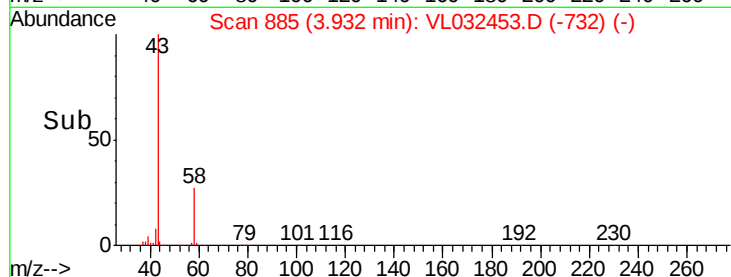
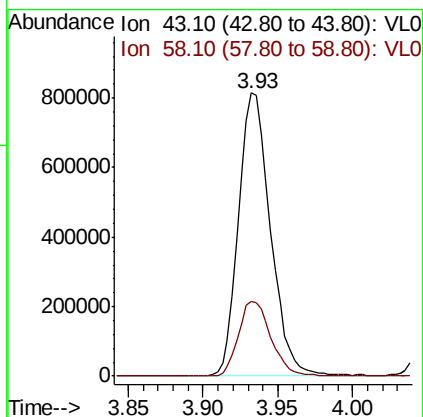
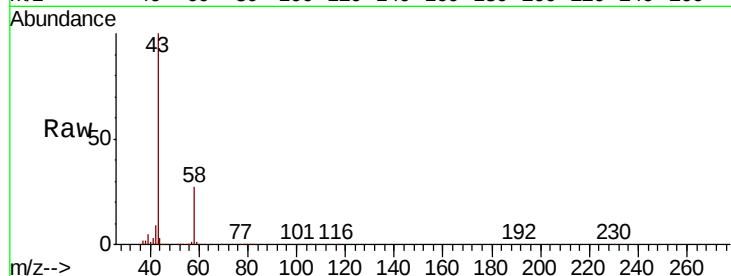
43 100

58 27.2 22.6 33.8

Manual Integrations
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#16

1,3-Butadiene

Concen: 10.15 ppbv

RT: 3.39 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL032453.D

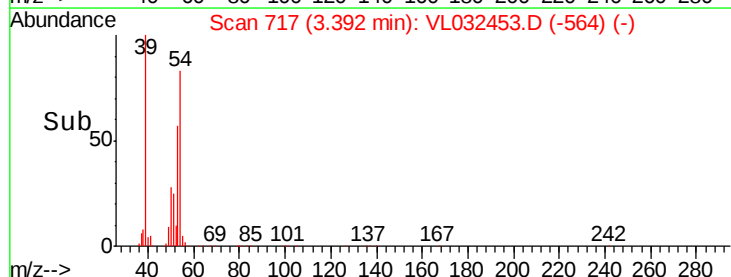
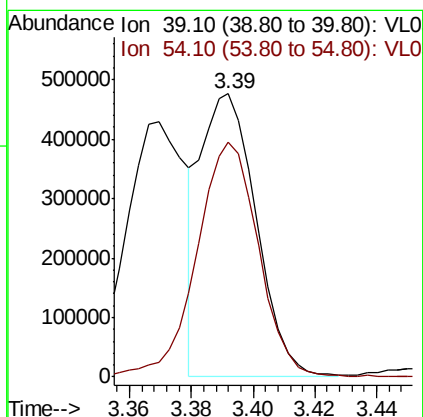
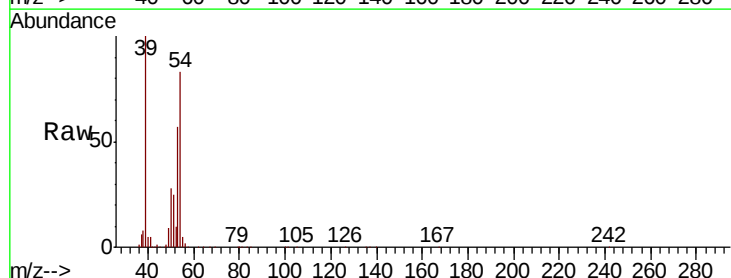
Acq: 5 Sep 2018 10:53

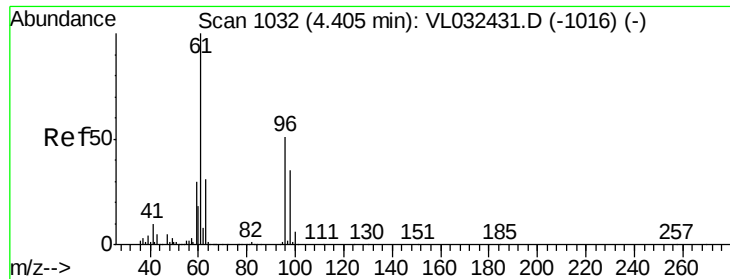
Tgt Ion: 39 Resp: 589626

Ion Ratio Lower Upper

39 100

54 93.6 80.8 121.2





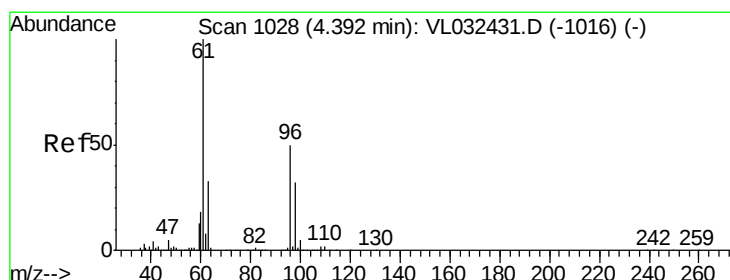
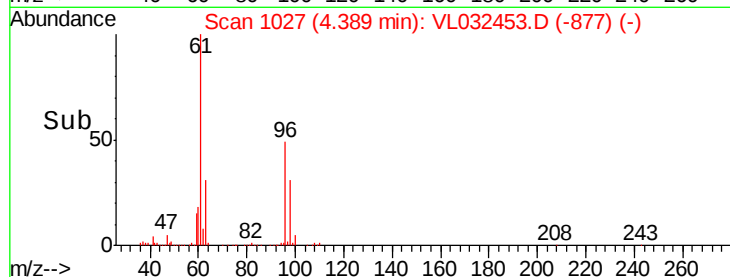
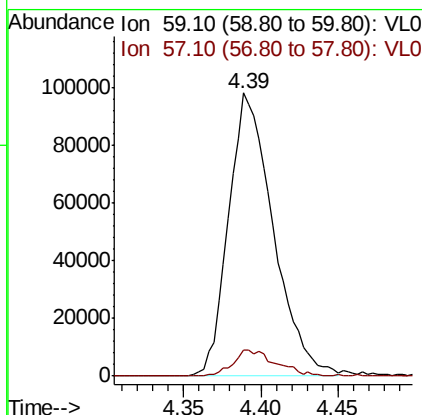
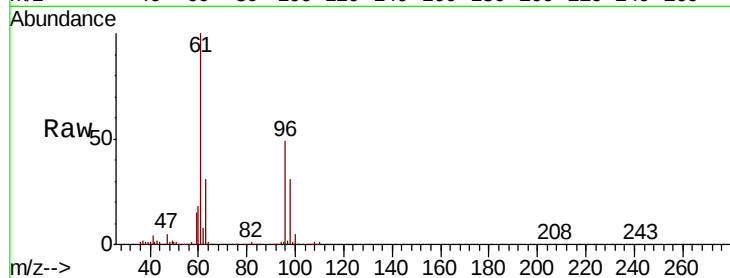
#17
tert-Butyl alcohol
Concen: 10.34 ppbv
RT: 4.39 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010

Tot Ion	59	Ratio	100	Resp	196471
Ion	59	100		Lower	Upper
	57	9.1		0.0	0.0#

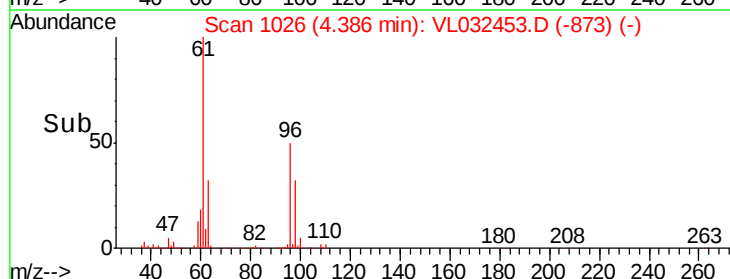
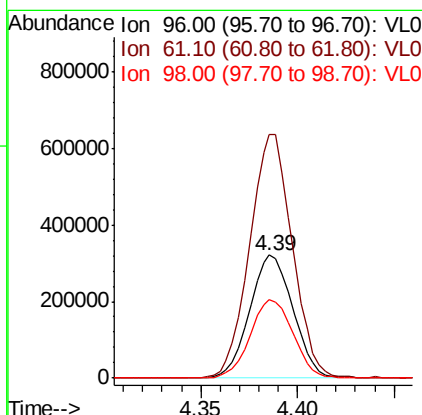
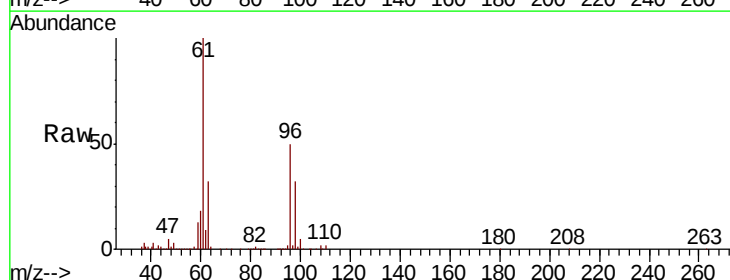
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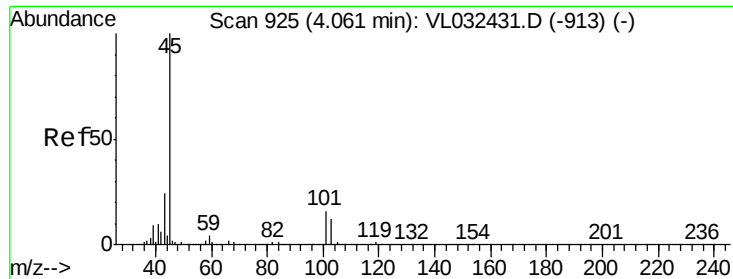
MMDadoda
9/7/2018 10:45:47 AM



#18
1,1-Dichloroethene
Concen: 10.20 ppbv
RT: 4.39 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	96	Ratio	100	Resp	499539
Ion	96	100		Lower	Upper
	61	198.3		159.2	238.8
	98	64.4		51.0	76.4





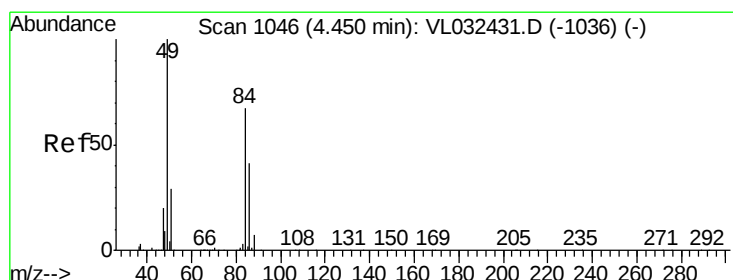
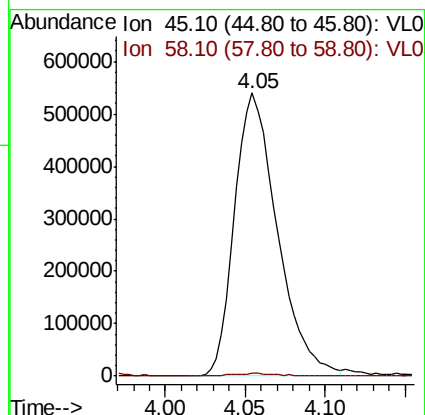
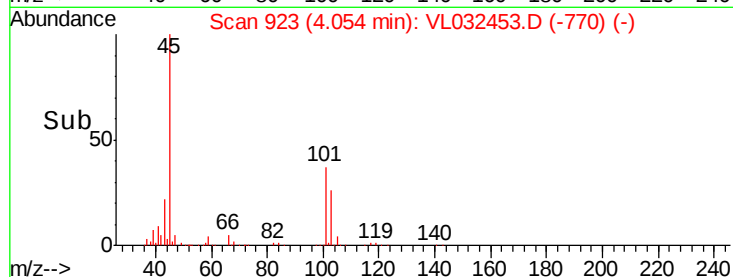
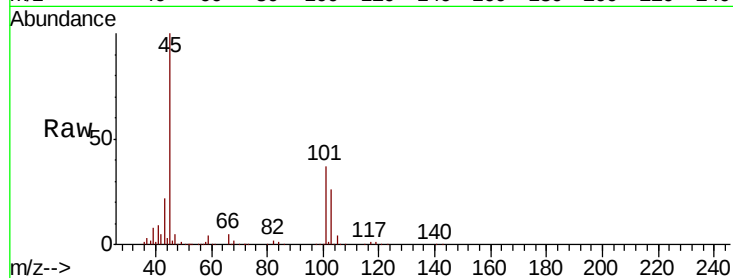
#19
Isopropyl Alcohol
Concen: 12.15 ppbv
RT: 4.05 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 984181
Ion Ratio Lower Upper
45 100
58 33.5 2.0 3.0#

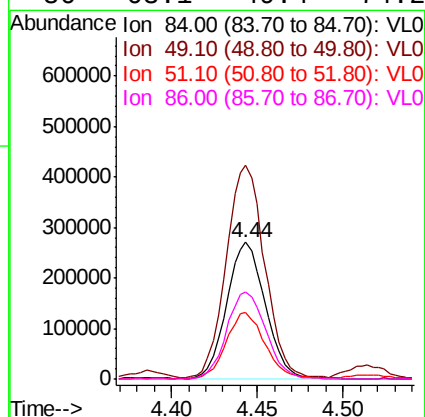
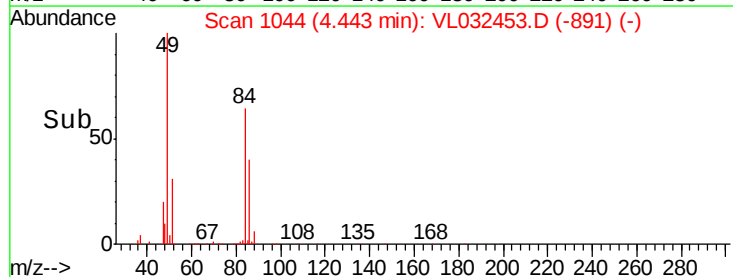
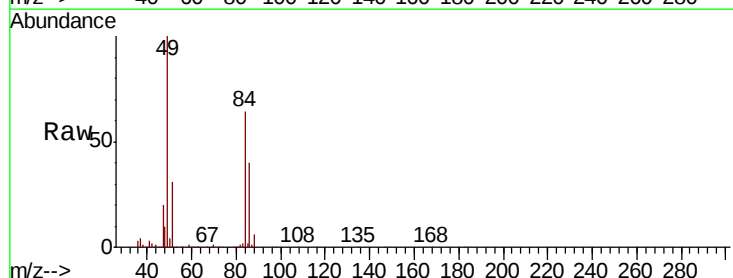
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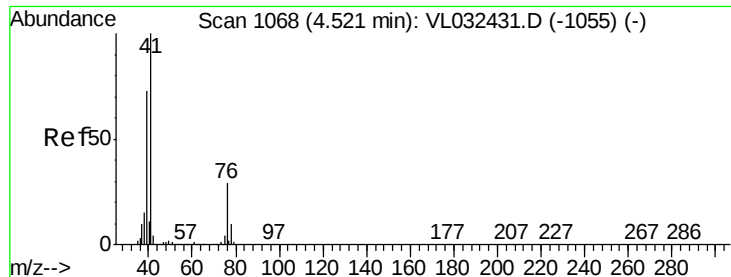
MMDadoda
9/7/2018 10:45:47 AM



#20
Methylene Chloride
Concen: 8.88 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion: 84 Resp: 418238
Ion Ratio Lower Upper
84 100
49 155.2 119.1 178.7
51 47.6 35.2 52.8
86 63.1 49.4 74.2





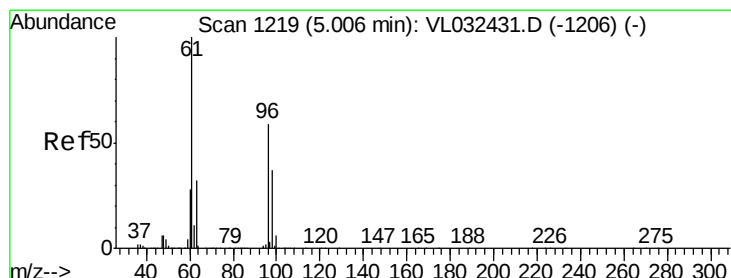
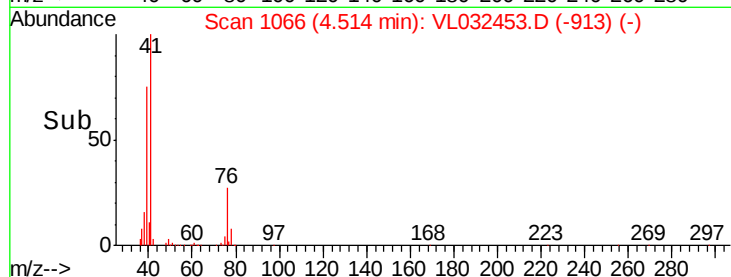
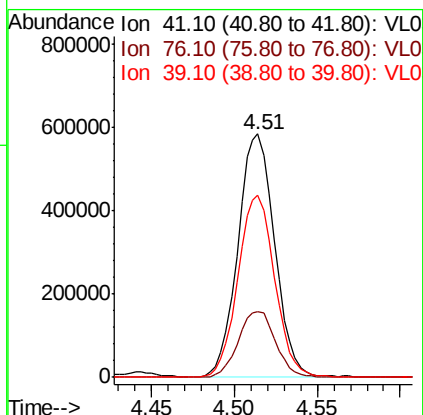
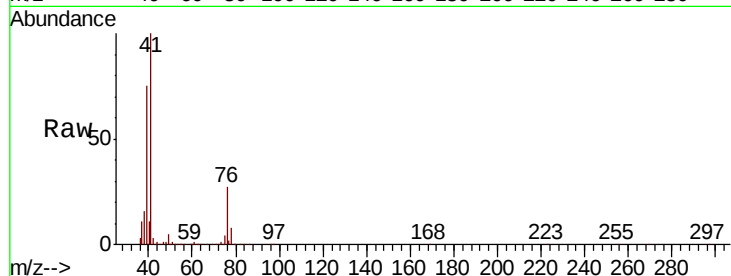
#21
Allvl Chloride
Concen: 10.95 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.7	23.6	35.4
39	75.5	57.7	86.5

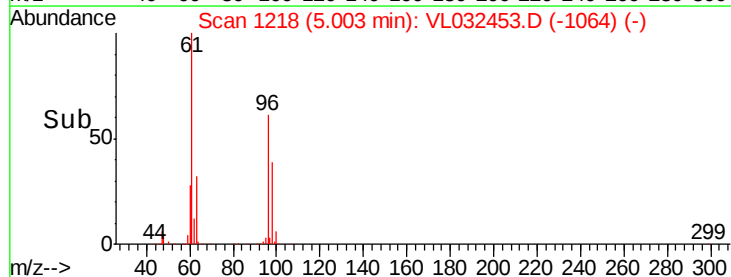
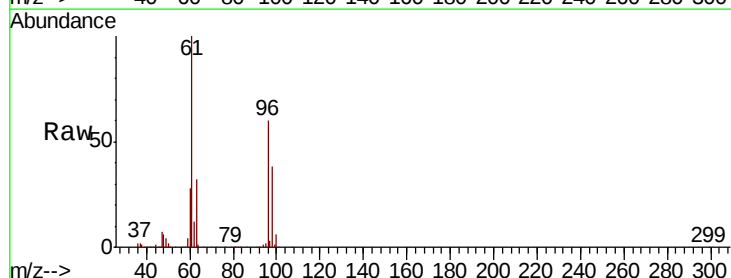
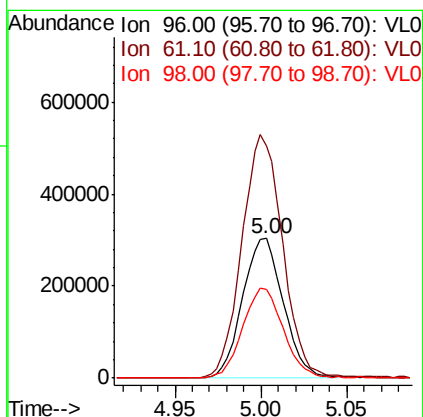
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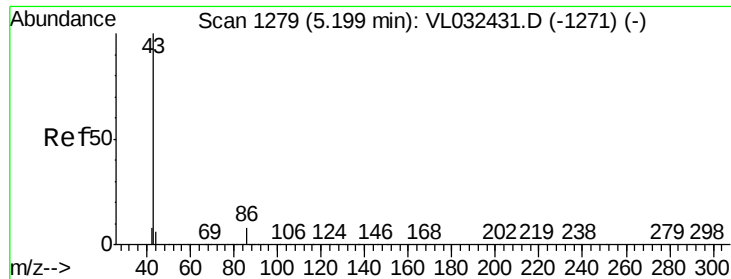
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.41 ppbv
RT: 5.00 min Scan# 1218
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.4	136.2	204.4
98	63.8	50.4	75.6





#23

Vinyl Acetate

Concen: 11.31 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2314636

Ion Ratio Lower Upper

43 100

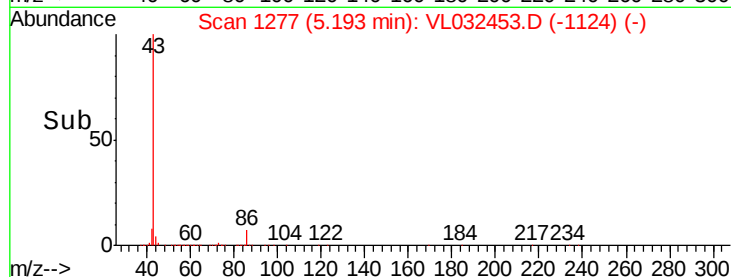
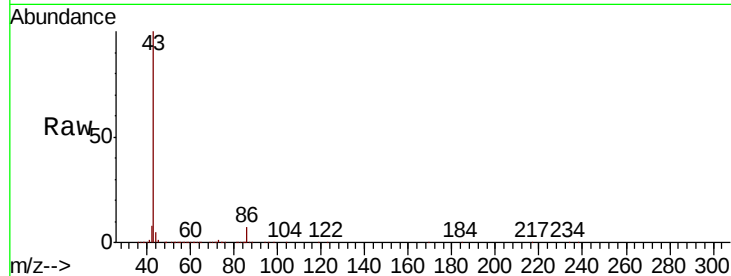
86 7.2 5.9 8.9

42 8.4 6.9 10.3

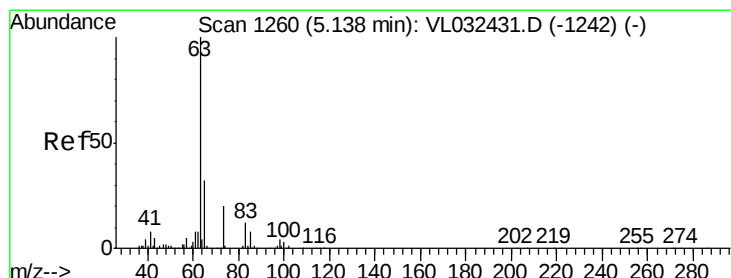
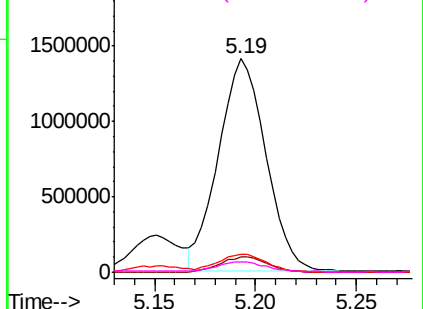
44 4.4 4.6 7.0#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.12 ppbv

RT: 5.13 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

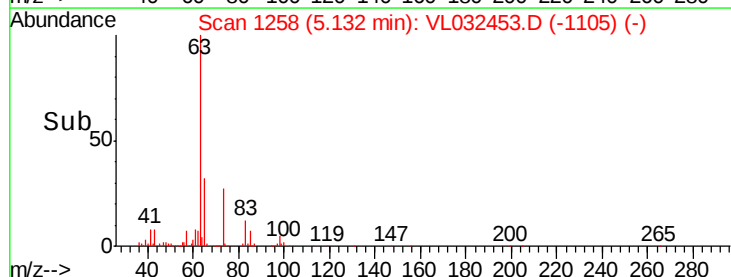
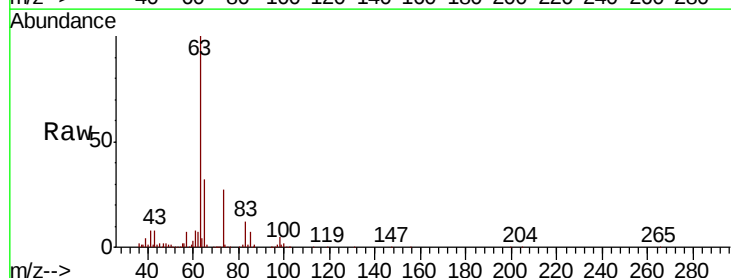
Tgt Ion: 63 Resp: 1537659

Ion Ratio Lower Upper

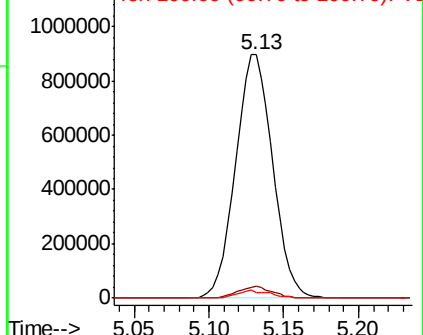
63 100

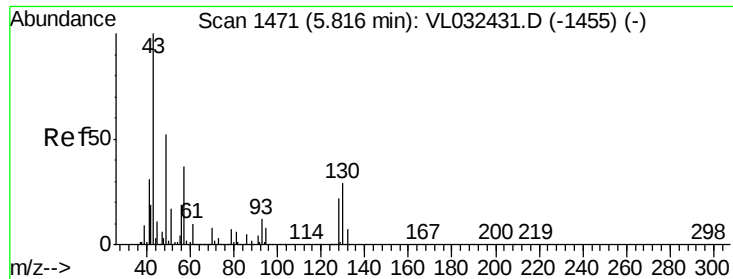
98 4.9 2.1 6.5

100 2.3 1.5 4.4



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





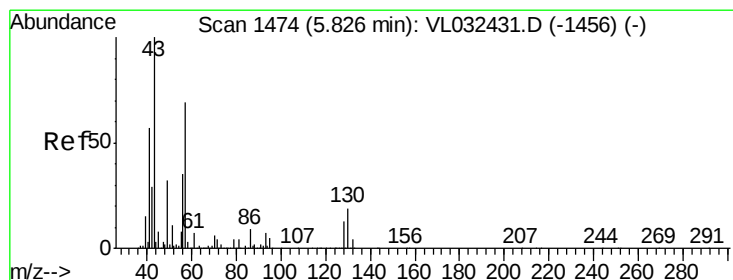
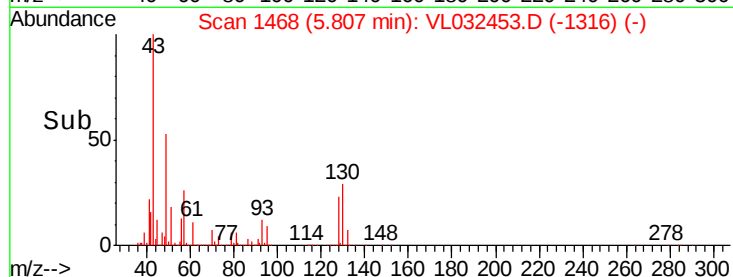
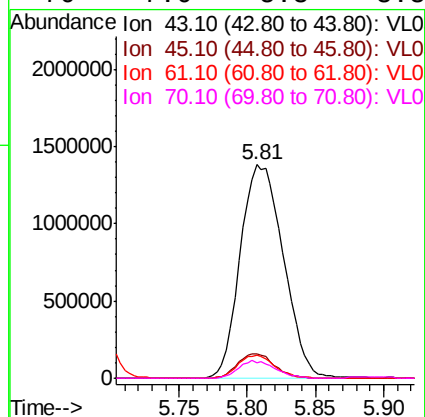
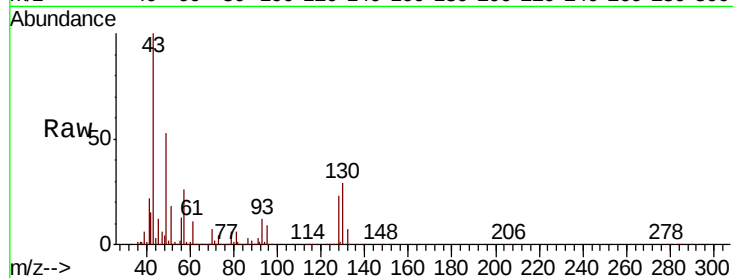
#25
Ethyl Acetate
Concen: 10.41 ppbv
RT: 5.81 min Scan# 1468
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	8.0	12.0	
61	9.1	7.6	11.4	
70	7.0	5.8	8.8	

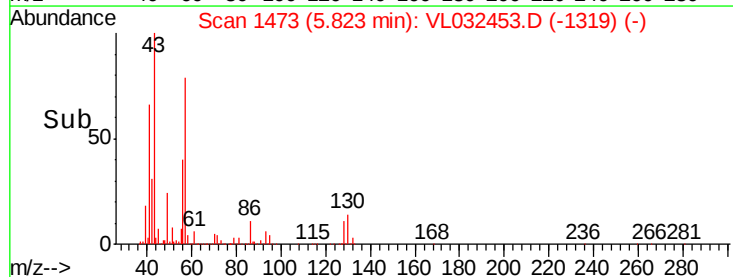
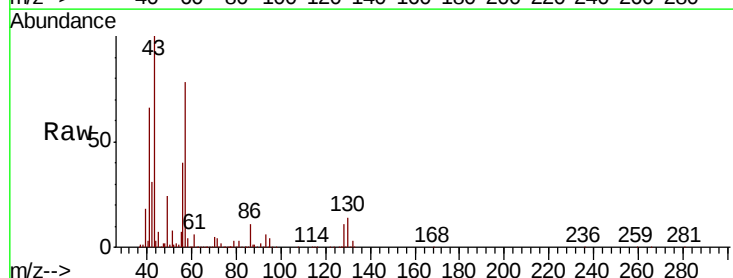
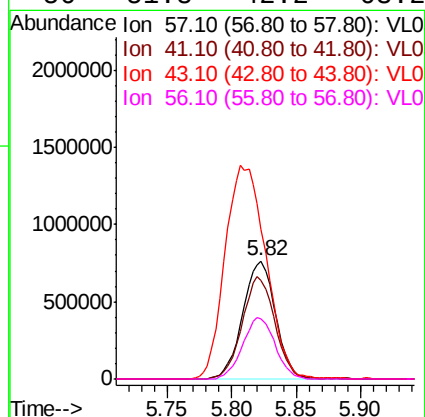
Manual Integrations
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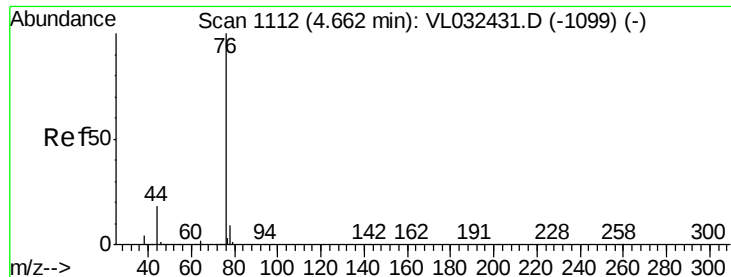
MMDadoda
9/7/2018 10:45:47 AM



#26
Hexane
Concen: 10.31 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.7	69.0	103.4	
43	227.1	172.1	258.1	
56	51.8	42.2	63.2	





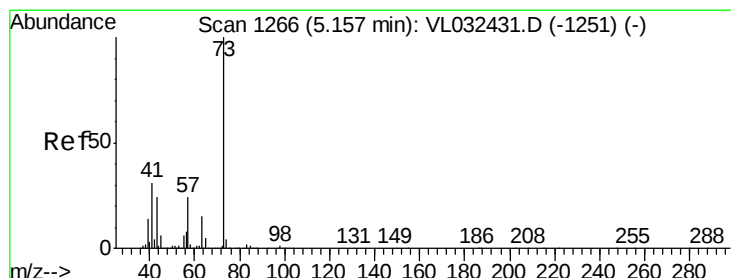
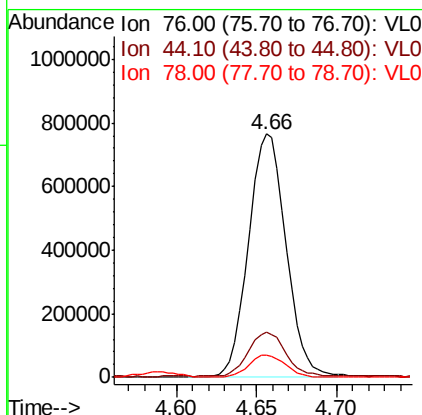
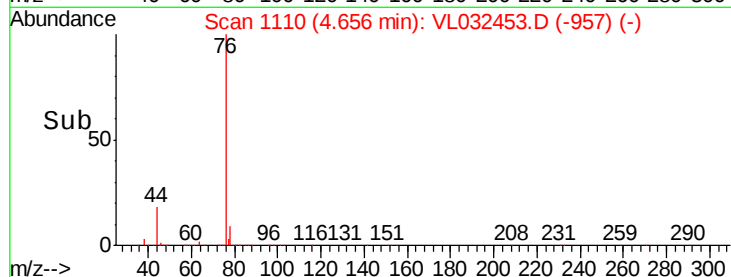
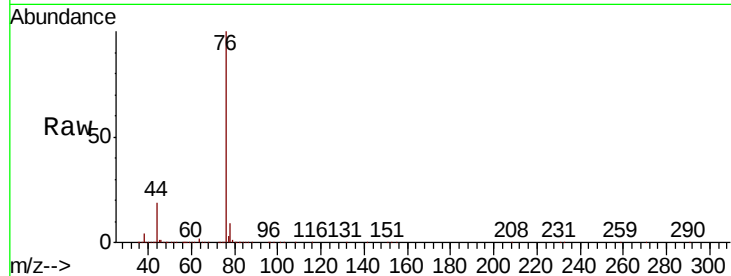
#27
Carbon Disulfide
Concen: 10.15 ppbv
RT: 4.66 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.5	14.0	21.0
78	9.3	7.5	11.3

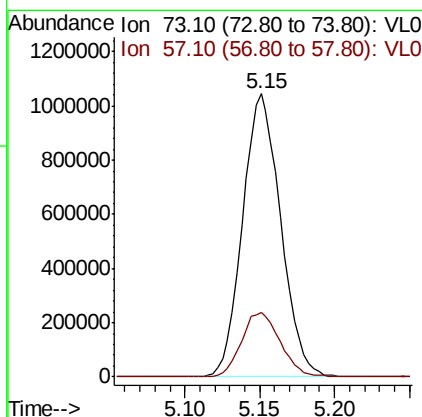
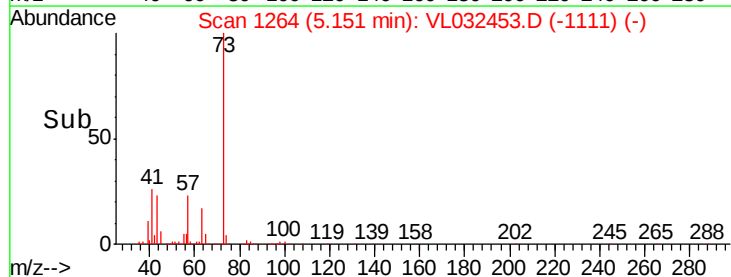
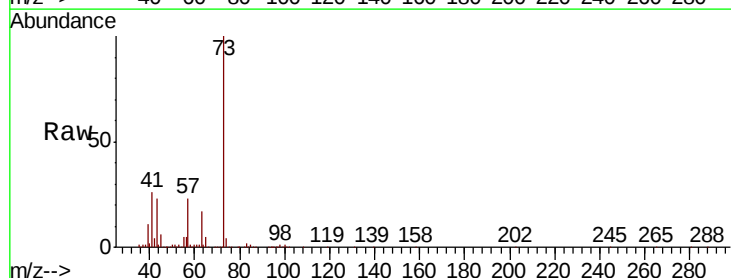
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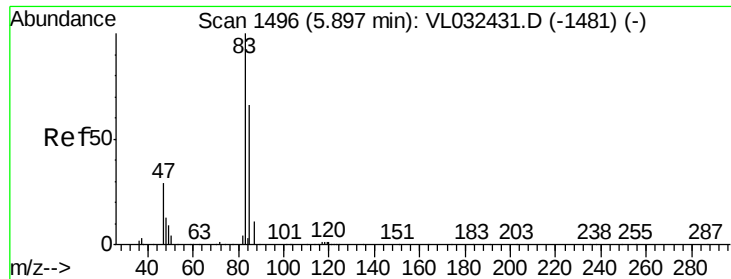
MMDadoda
9/7/2018 10:45:47 AM



#28
Methyl tert-Butyl Ether
Concen: 11.54 ppbv
RT: 5.15 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	19.3	28.9





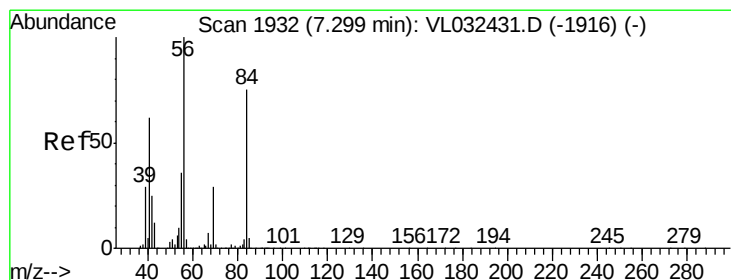
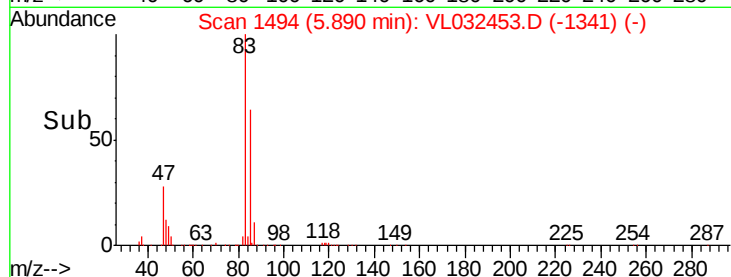
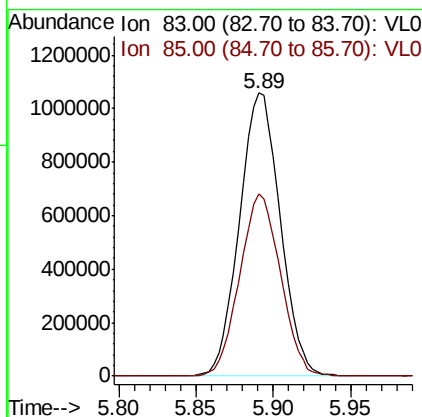
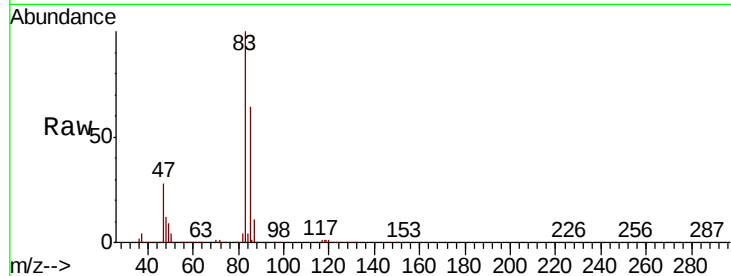
#29
Chloroform
Concen: 9.76 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1943449
Ion Ratio Lower Upper
83 100
85 64.3 52.5 78.7

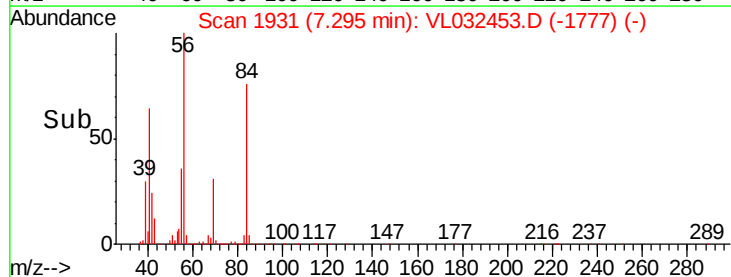
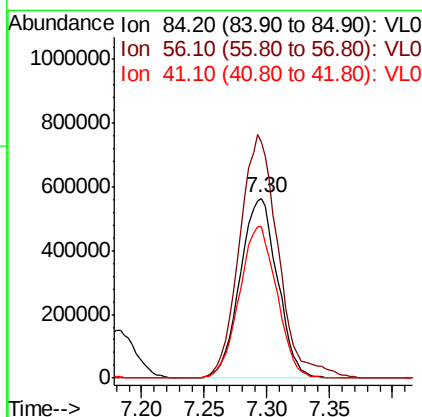
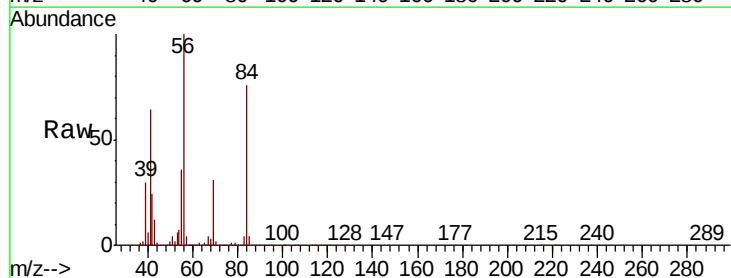
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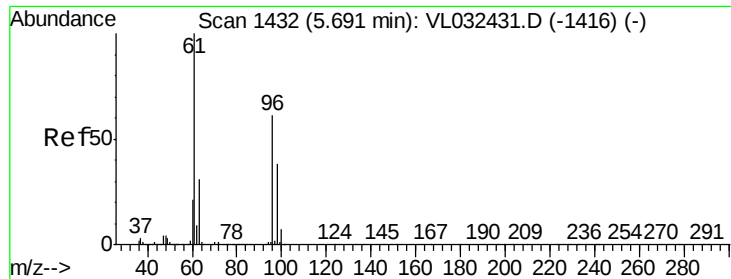
MMDadoda
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#30
Cyclohexane
Concen: 12.22 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion: 84 Resp: 1168508
Ion Ratio Lower Upper
84 100
56 140.7 113.5 170.3
41 84.0 68.1 102.1





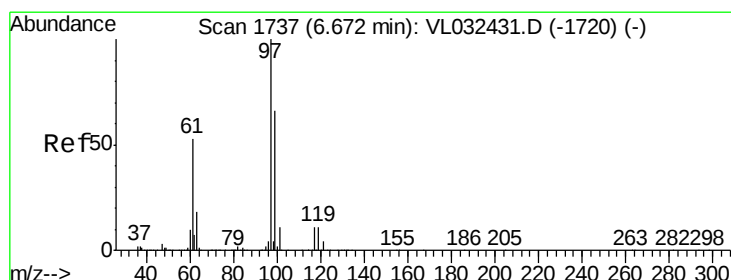
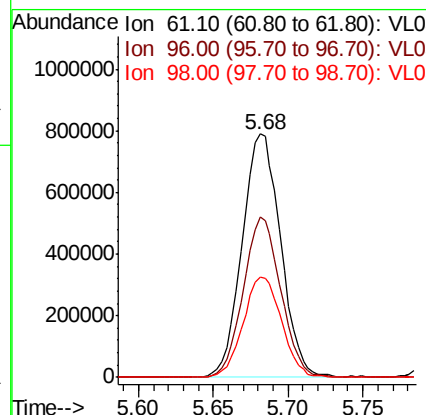
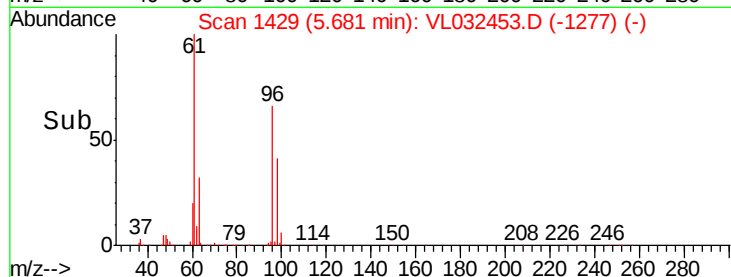
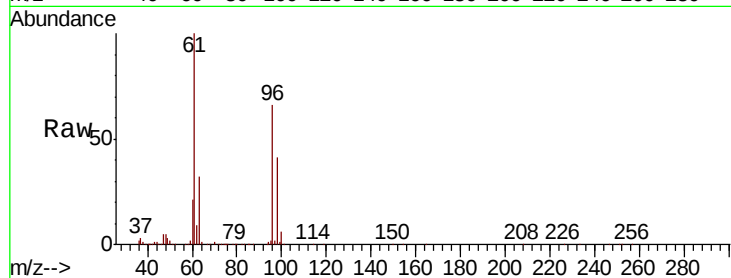
#31
 cis-1,2-Dichloroethene
 Concen: 11.94 ppbv
 RT: 5.68 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.6	49.2	73.8
98	41.3	30.7	46.1

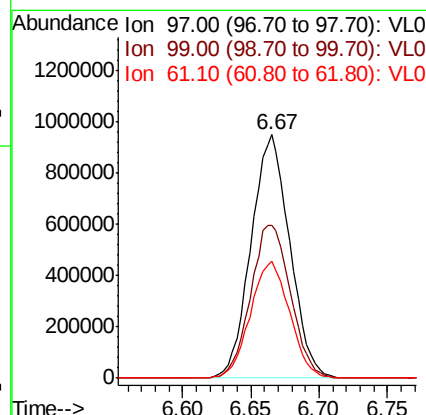
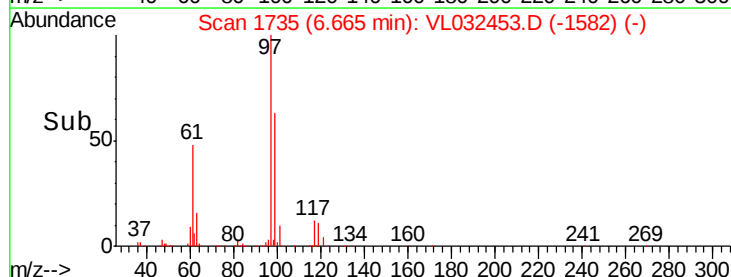
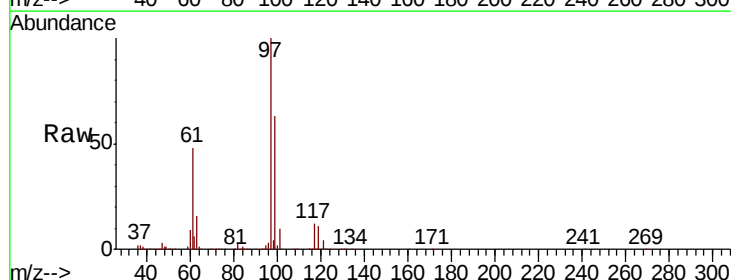
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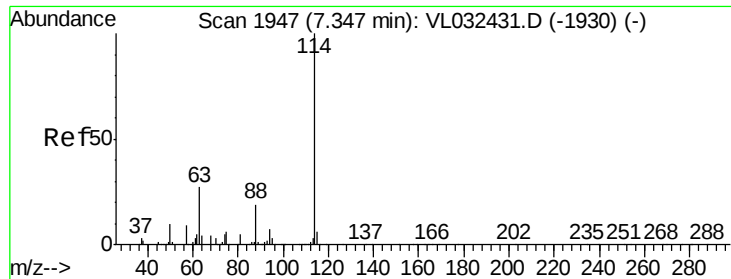
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#32
 1,1,1-Trichloroethane
 Concen: 10.09 ppbv
 RT: 6.67 min Scan# 1735
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.1	78.1
61	48.8	42.5	63.7





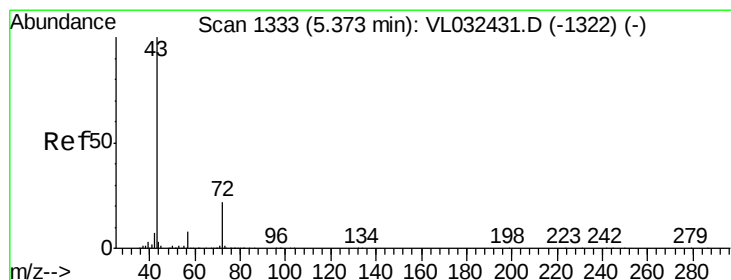
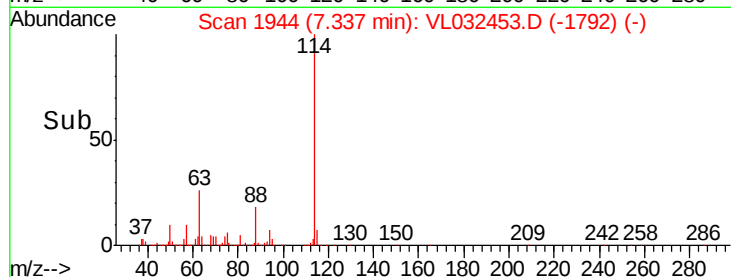
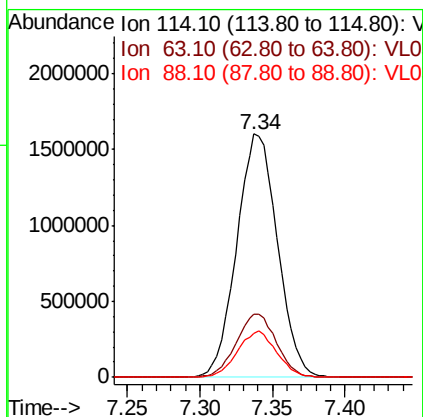
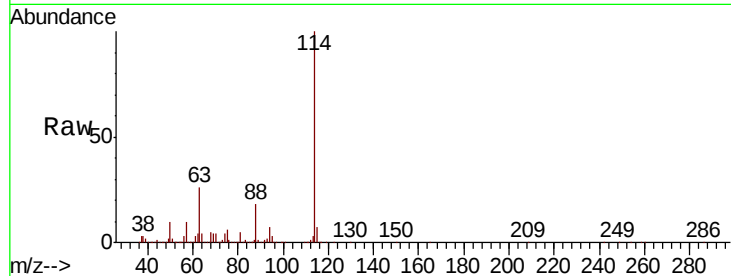
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	22.2	33.4
88	18.4	15.0	22.4

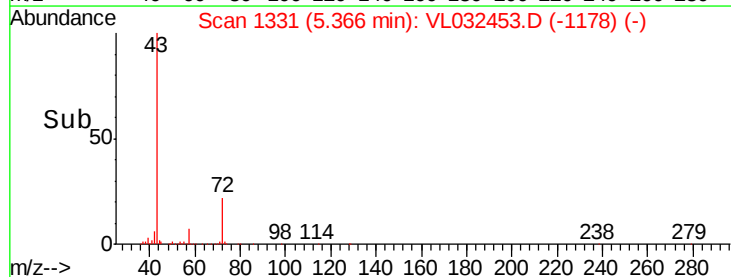
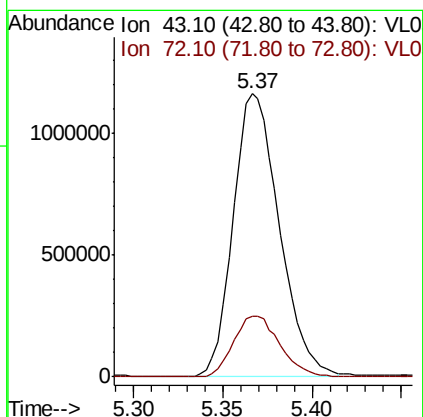
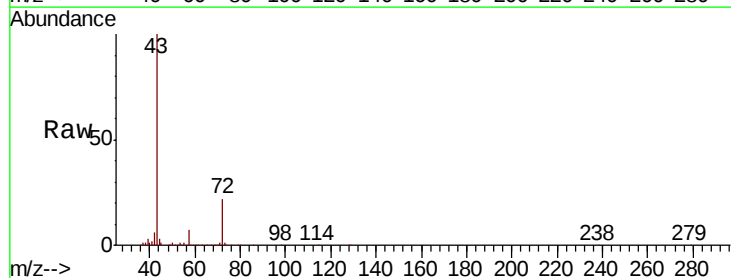
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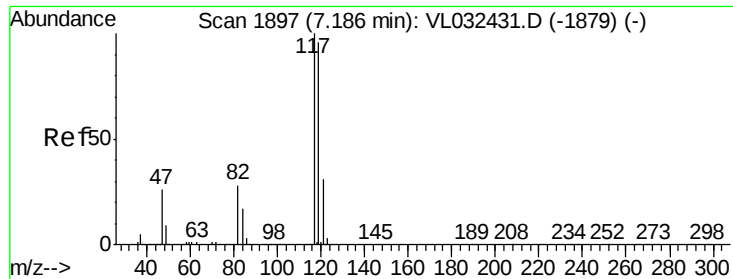
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#34
 2-Butanone
 Concen: 10.07 ppbv
 RT: 5.37 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.8	26.6





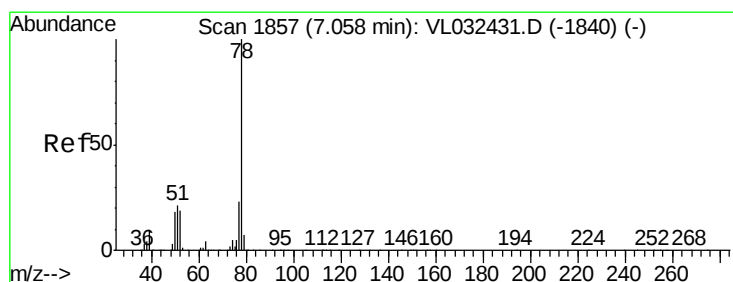
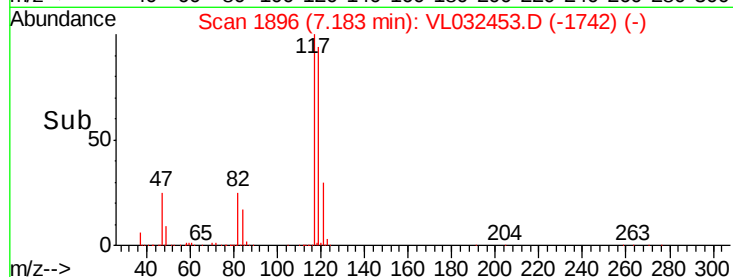
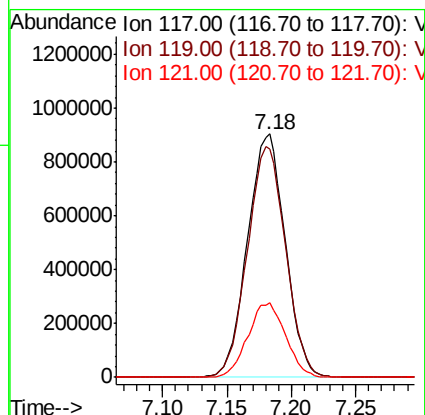
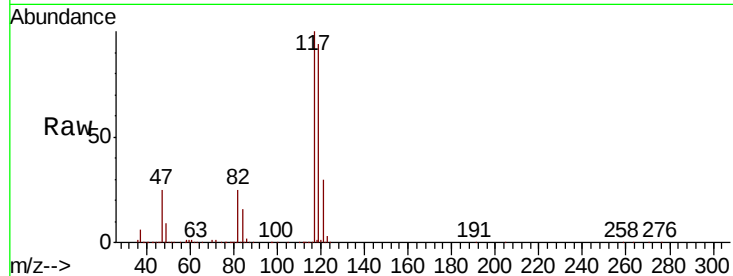
#35
Carbon Tetrachloride
Concen: 8.77 ppbv
RT: 7.18 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.9	76.6	115.0
121	30.4	24.6	36.8

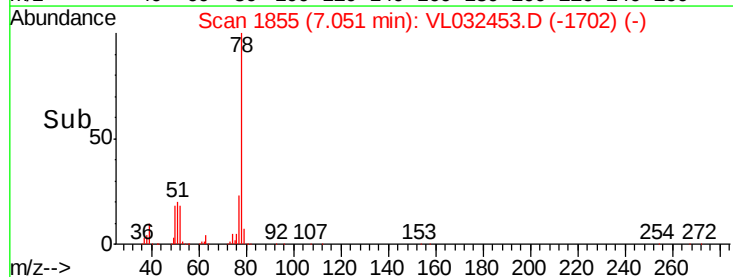
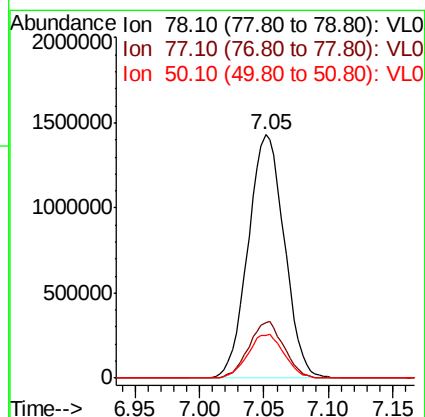
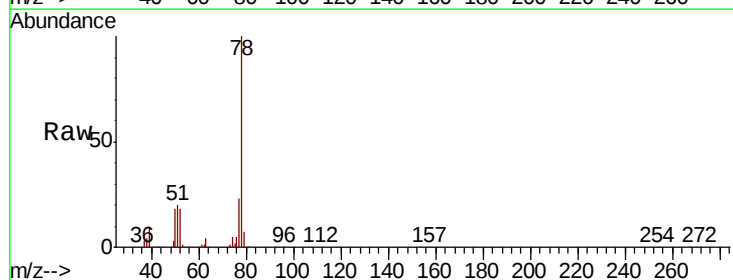
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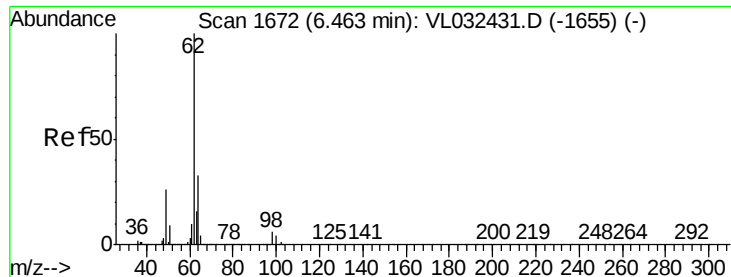
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#36
Benzene
Concen: 10.52 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.4	27.6
50	17.5	14.4	21.6





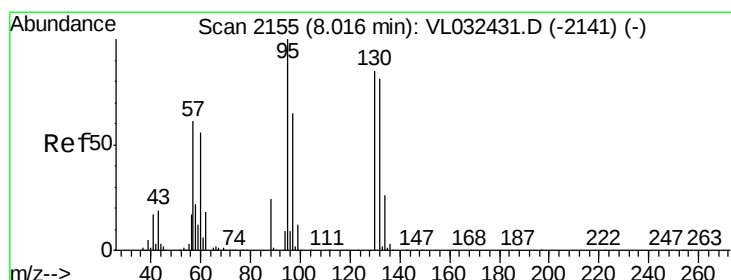
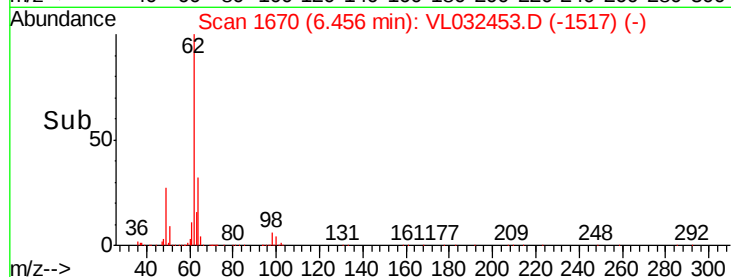
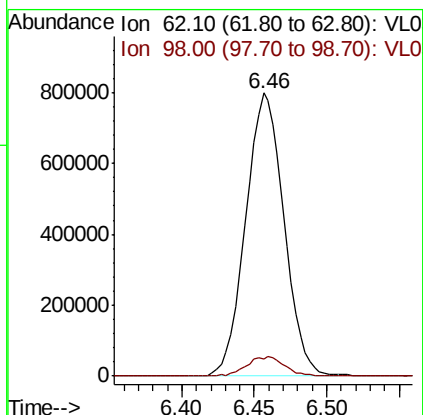
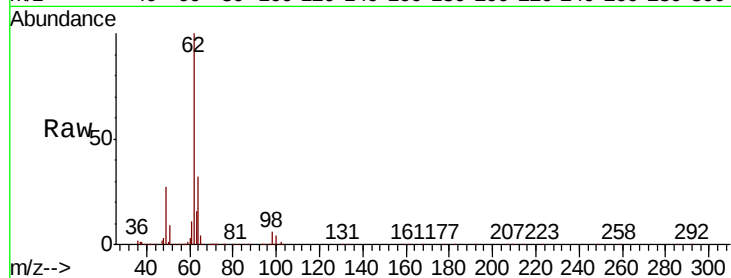
#37
 1,2-Dichloroethane
 Concen: 9.00 ppbv
 RT: 6.46 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1468265
 Ion Ratio Lower Upper
 62 100
 98 6.9 5.0 7.6

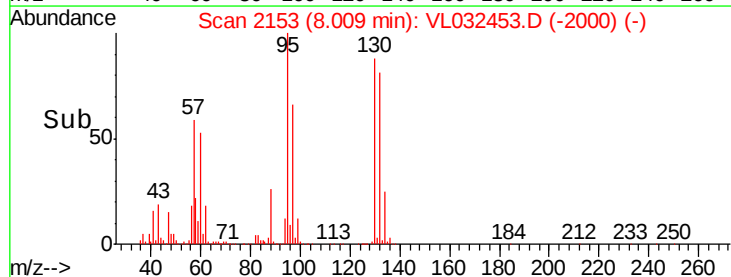
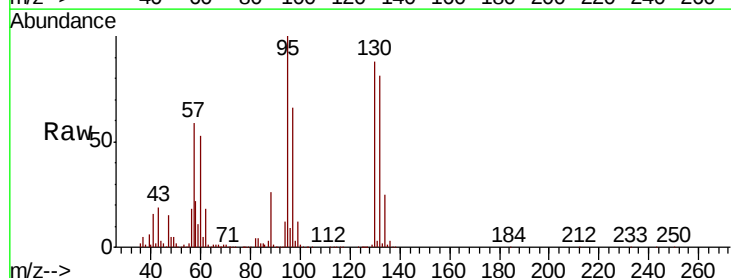
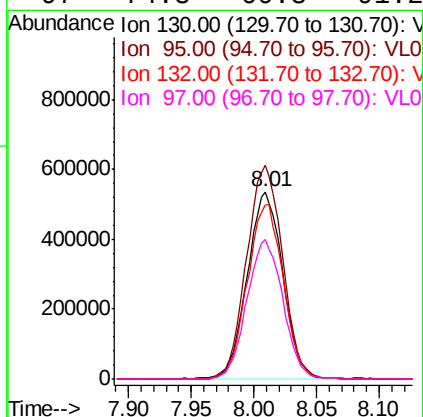
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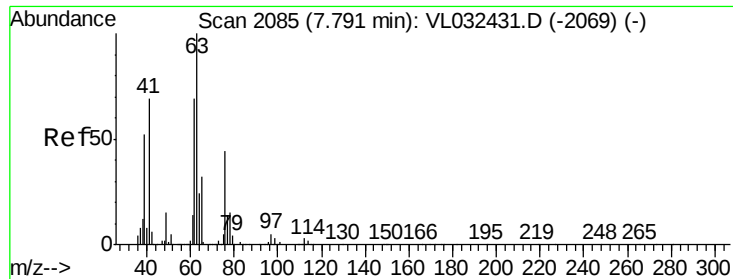
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#38
 Trichloroethene
 Concen: 10.40 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion: 130 Resp: 1051374
 Ion Ratio Lower Upper
 130 100
 95 114.2 94.2 141.4
 132 92.8 76.2 114.4
 97 74.8 60.8 91.2





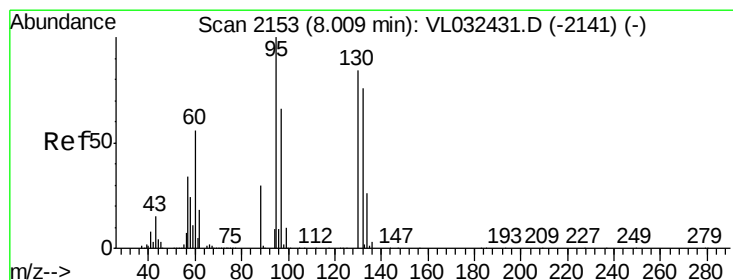
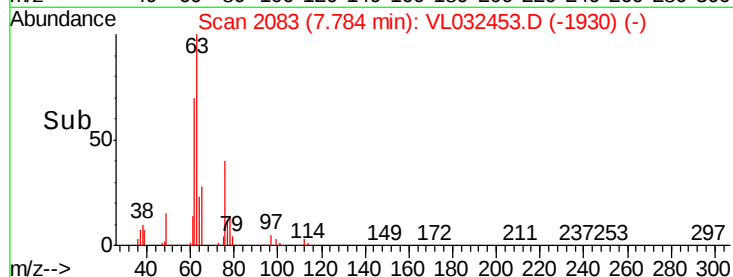
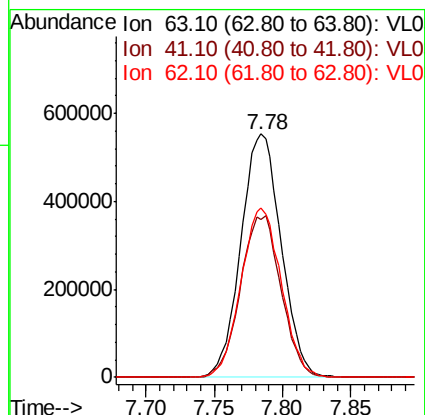
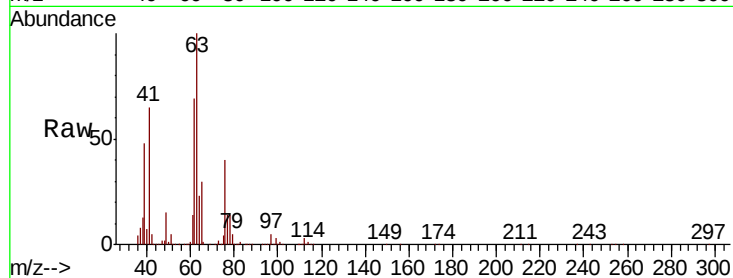
#39
 1,2-Dichloropropane
 Concen: 9.92 ppbv
 RT: 7.78 min Scan# 2083
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	65.0	55.4	83.0
62	69.6	55.4	83.0

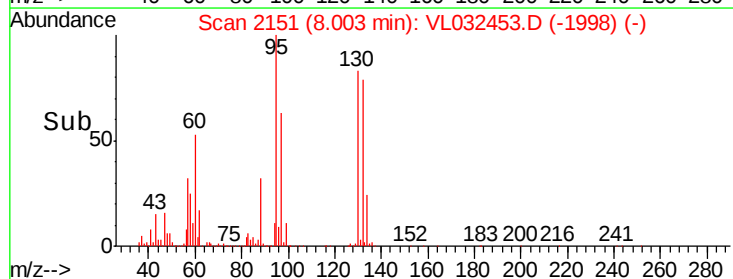
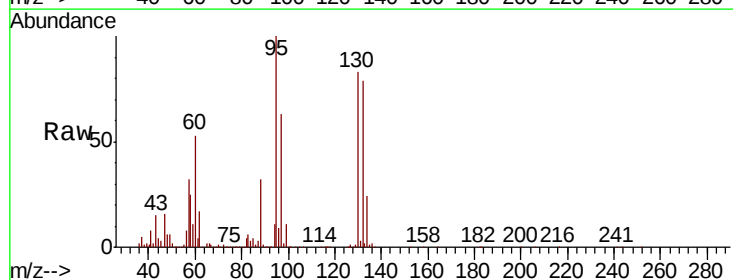
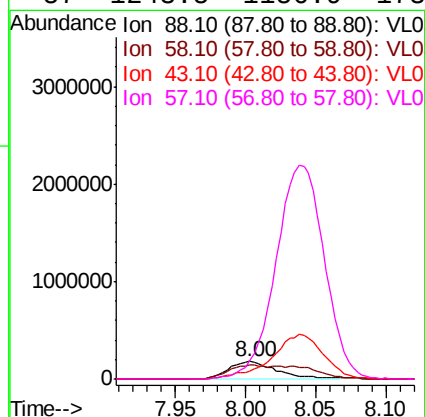
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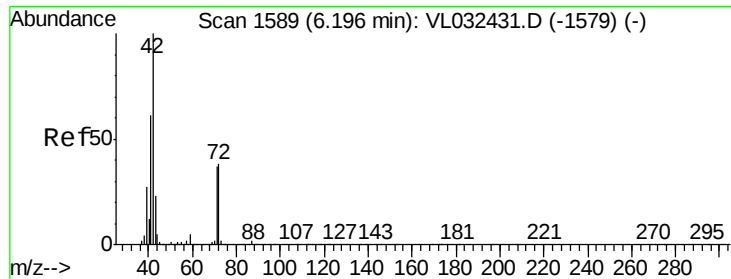
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#40
 1,4-Dioxane
 Concen: 12.41 ppbv
 RT: 8.00 min Scan# 2151
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.1	119.7	179.5
43	274.4	253.0	379.4
57	1243.5	1156.9	1735.3





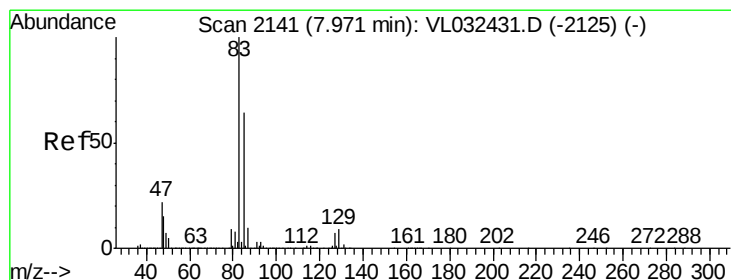
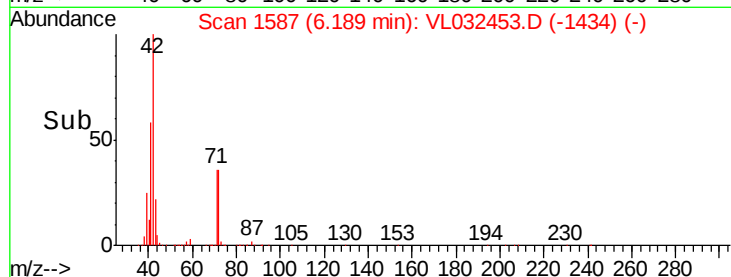
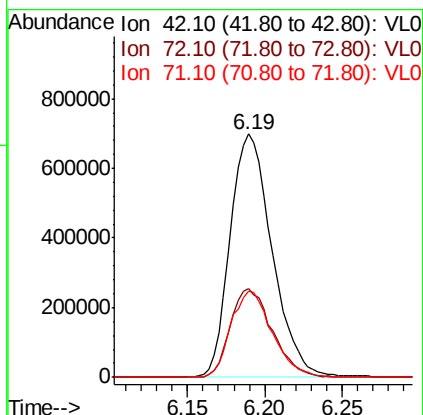
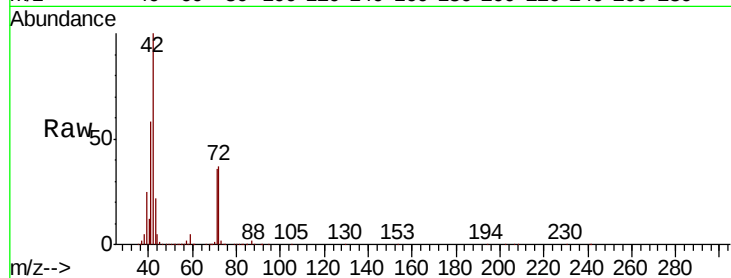
#41
Tetrahydrofuran
Concen: 11.59 ppbv
RT: 6.19 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	29.5	44.3
71	35.4	28.3	42.5

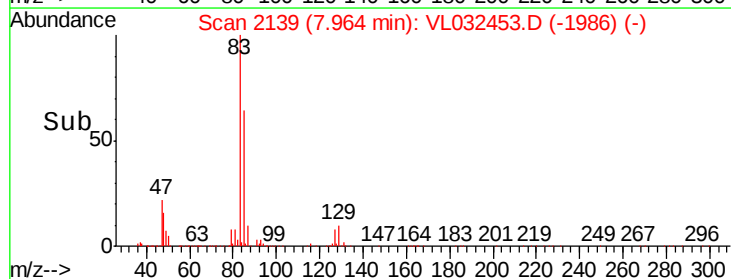
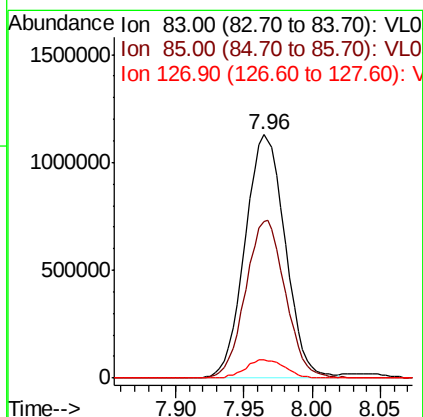
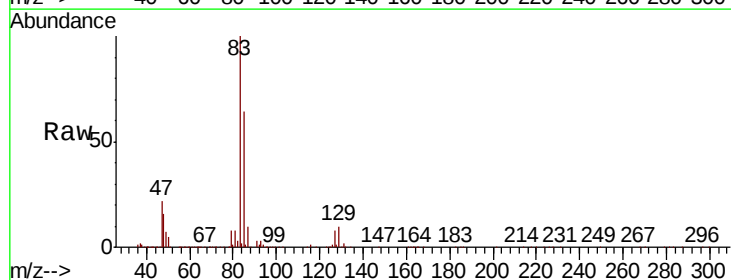
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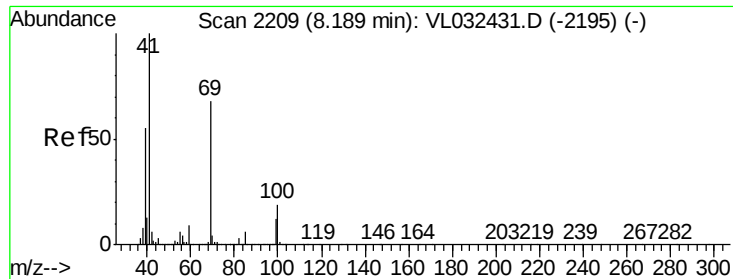
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#42
Bromodichloromethane
Concen: 10.27 ppbv
RT: 7.96 min Scan# 2139
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	7.7	5.8	8.8





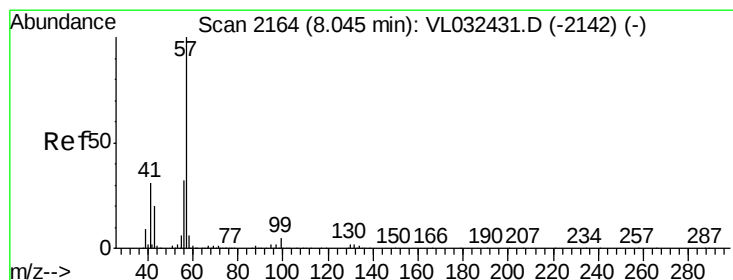
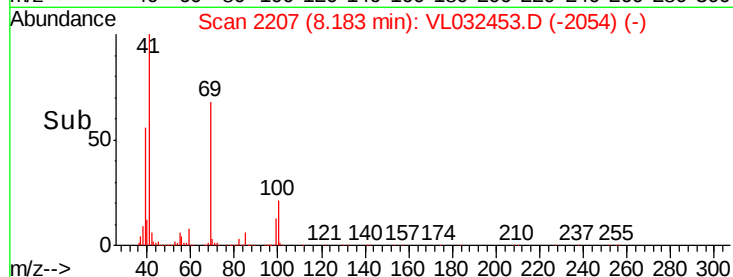
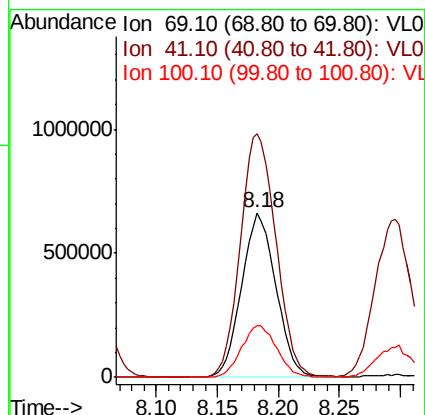
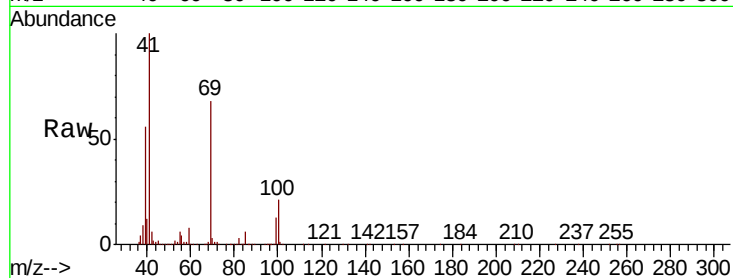
#43
Methvl Methacrvlate
Concen: 11.40 ppbv
RT: 8.18 min Scan# 2207
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1287208
Ion Ratio Lower Upper
69 100
41 153.6 117.1 175.7
100 32.2 23.4 35.2

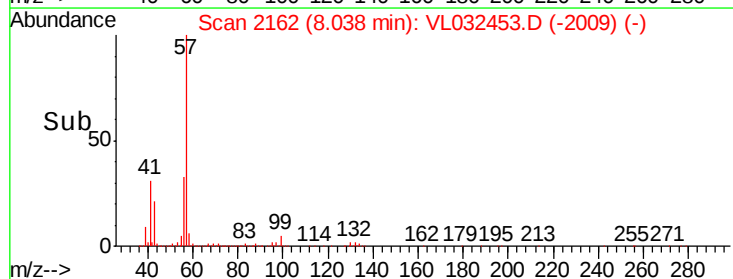
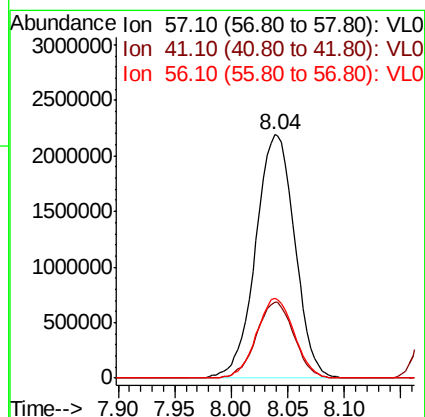
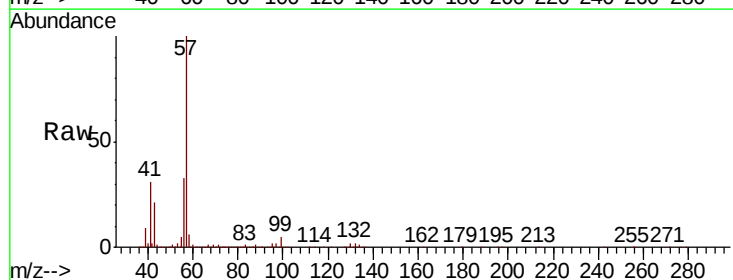
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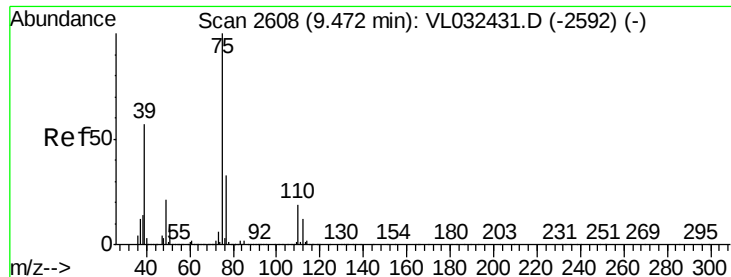
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9/7/2018 10:45:47 AM



#44
2,2,4-Trimethylpentane
Concen: 10.22 ppbv
RT: 8.04 min Scan# 2162
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion: 57 Resp: 5257331
Ion Ratio Lower Upper
57 100
41 30.4 24.4 36.6
56 31.5 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 13.12 ppbv

RT: 9.46 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1585017

Ion Ratio Lower Upper

75 100

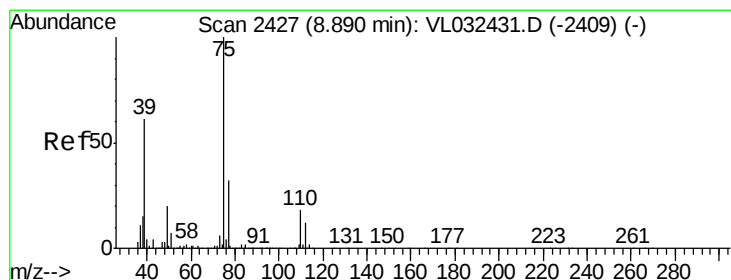
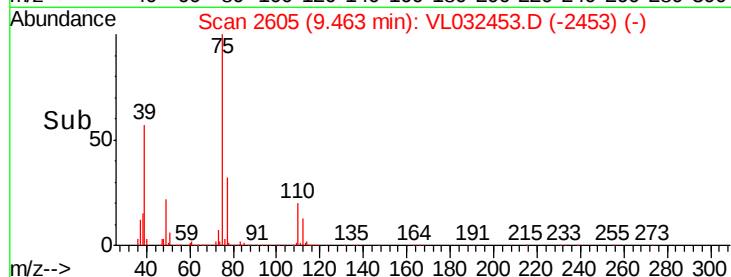
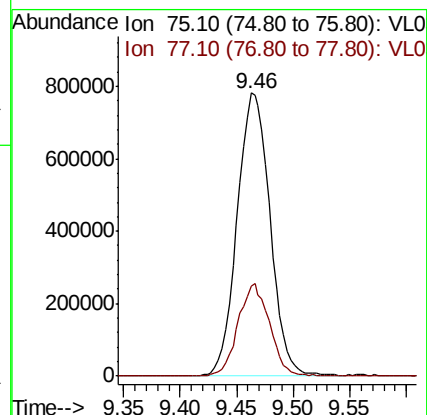
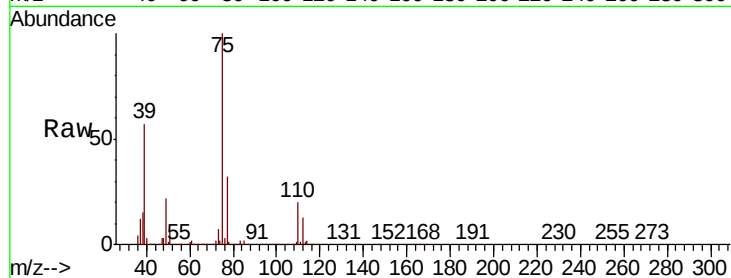
77 31.8 26.2 39.2

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#46

cis-1,3-Dichloropropene

Concen: 12.41 ppbv

RT: 8.88 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

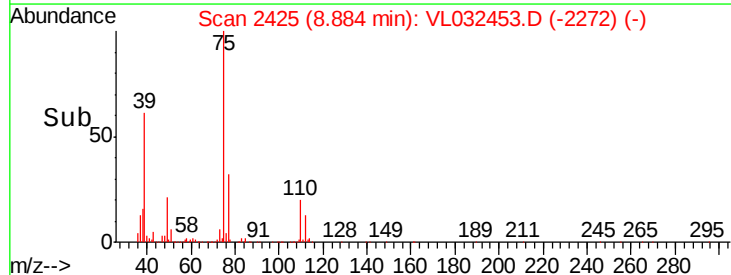
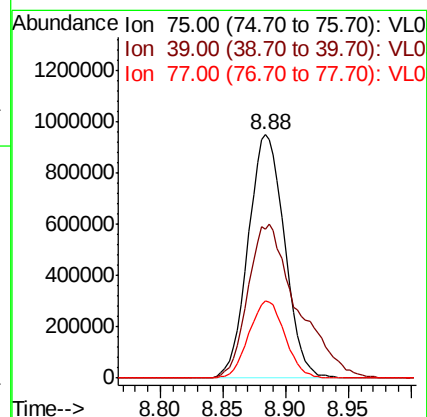
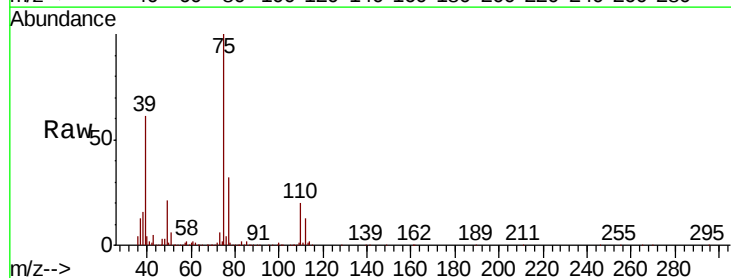
Tgt Ion: 75 Resp: 1916170

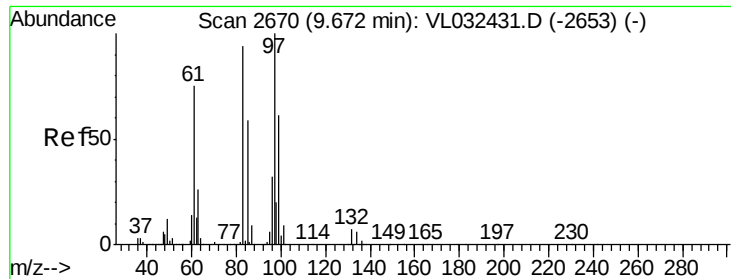
Ion Ratio Lower Upper

75 100

39 61.3 48.9 73.3

77 31.8 25.4 38.0





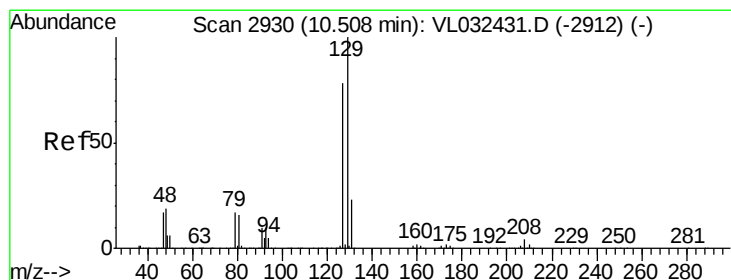
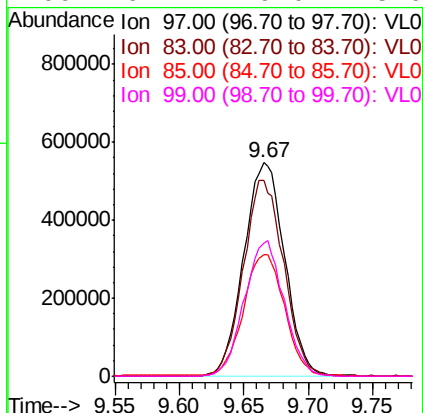
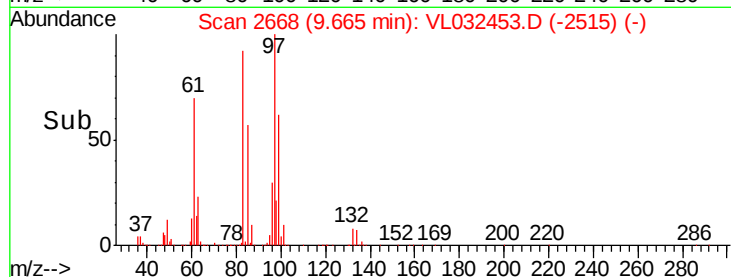
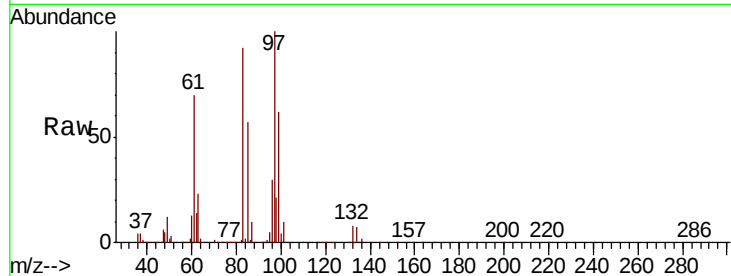
#47
 1,1,2-Trichloroethane
 Concen: 10.01 ppbv
 RT: 9.67 min Scan# 2668
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.4	75.0	112.4	
85	56.8	47.5	71.3	
99	62.1	49.0	73.6	

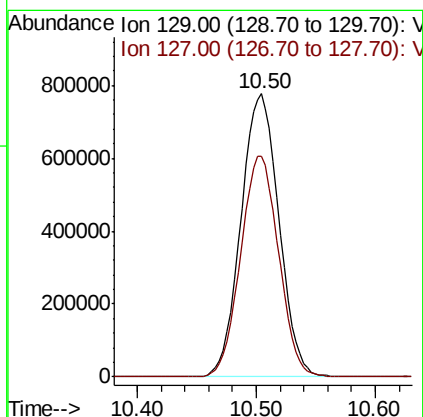
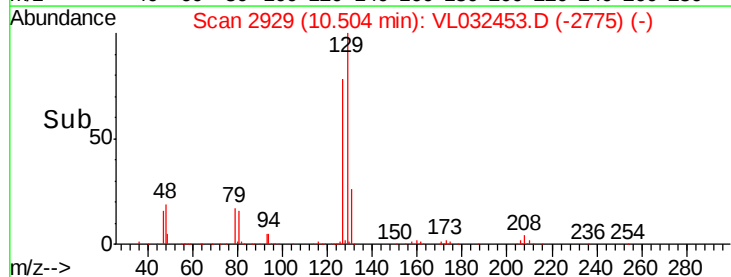
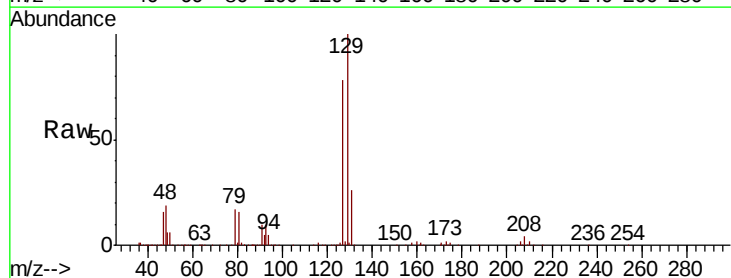
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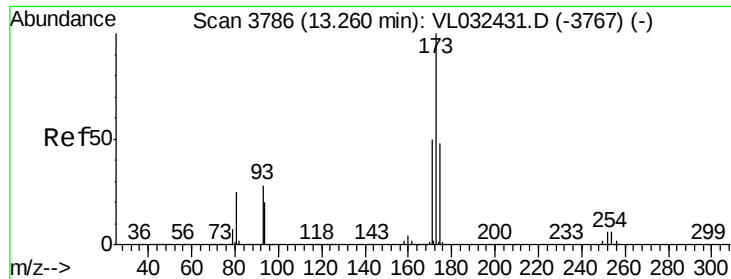
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.23 ppbv
 RT: 10.50 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.3	39.5	118.3	





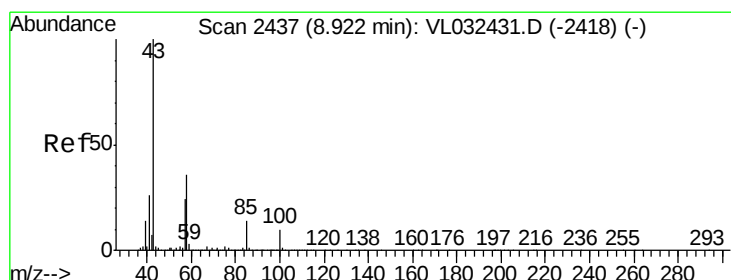
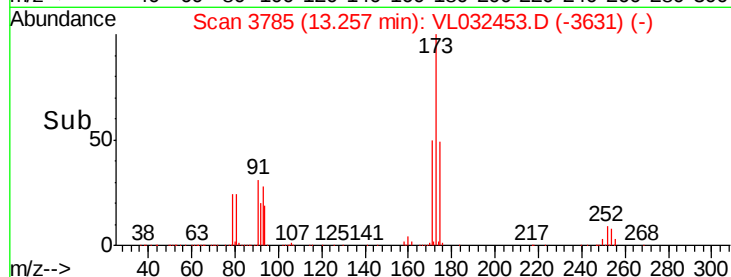
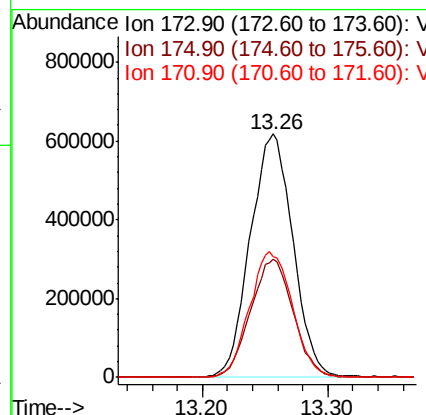
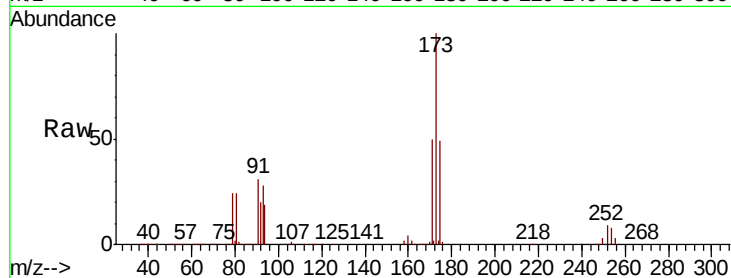
#49
Bromoform
Concen: 10.02 ppbv
RT: 13.26 min Scan# 3785
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.9	58.3
171	52.4	41.6	62.4

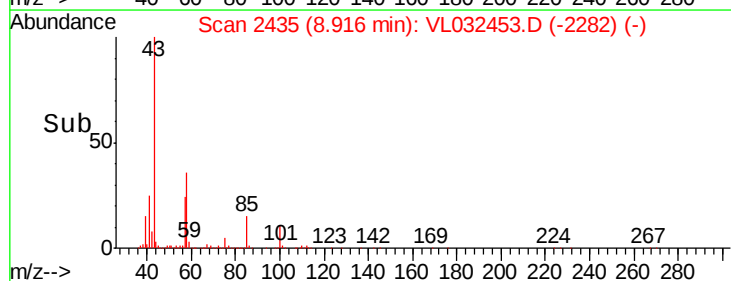
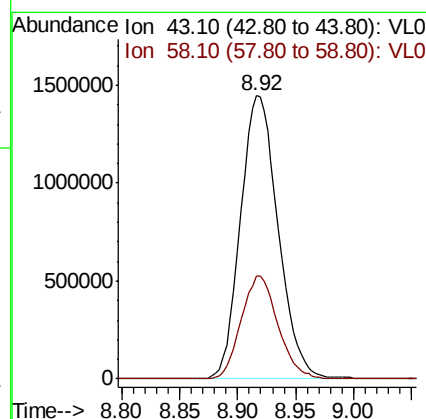
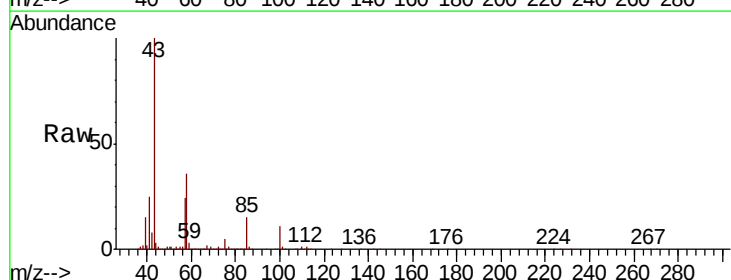
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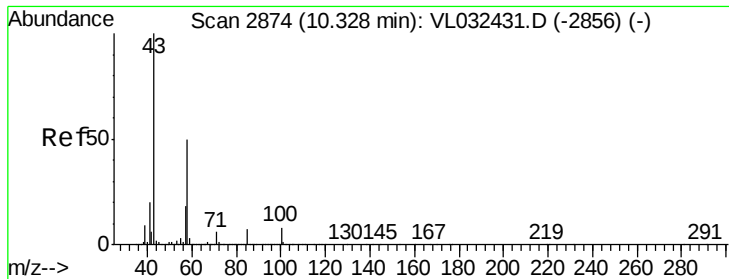
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.42 ppbv
RT: 8.92 min Scan# 2435
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.0	43.4





#51

2-Hexanone

Concen: 11.98 ppbv

RT: 10.32 min Scan# 2871

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2414664

Ion Ratio Lower Upper

43 100

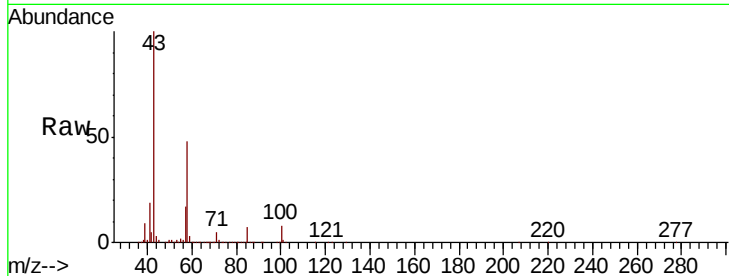
58 49.3 39.2 58.8

98 0.2 0.4 0.6#

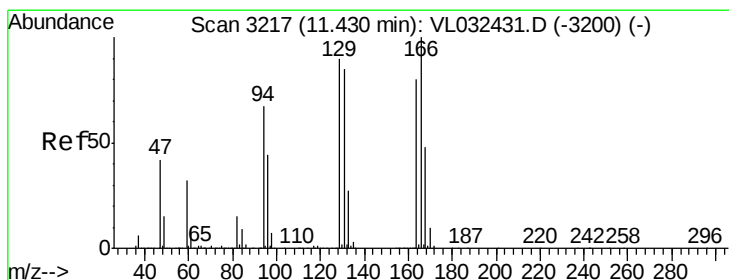
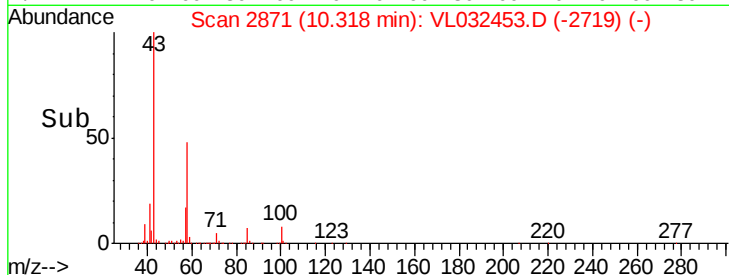
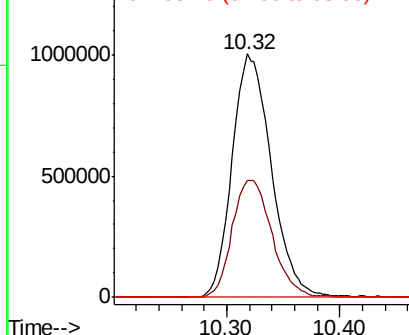
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.51 ppbv

RT: 11.43 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tgt Ion: 164 Resp: 867337

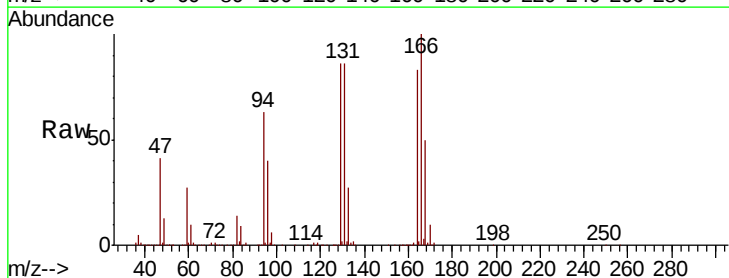
Ion Ratio Lower Upper

164 100

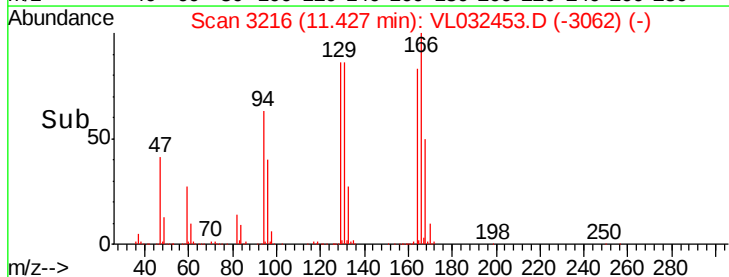
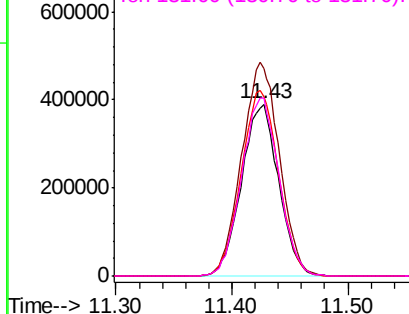
166 120.5 100.6 150.8

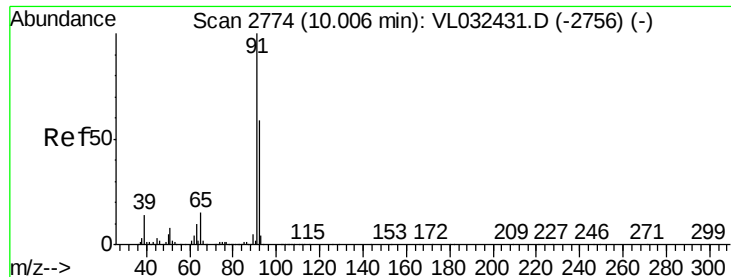
129 103.8 89.9 134.9

131 103.3 85.9 128.9



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.32 ppbv

RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3149186

Ion Ratio Lower Upper

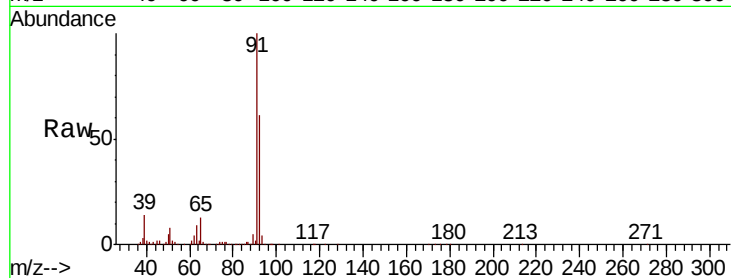
91 100

92 60.3 48.1 72.1

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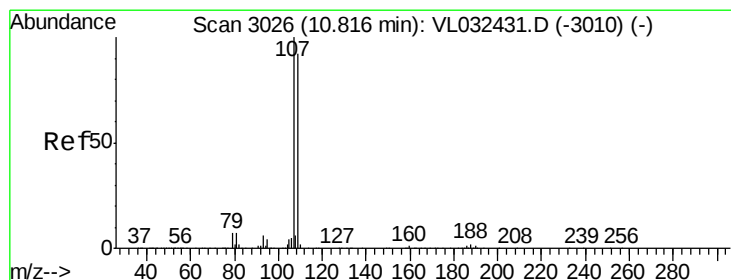
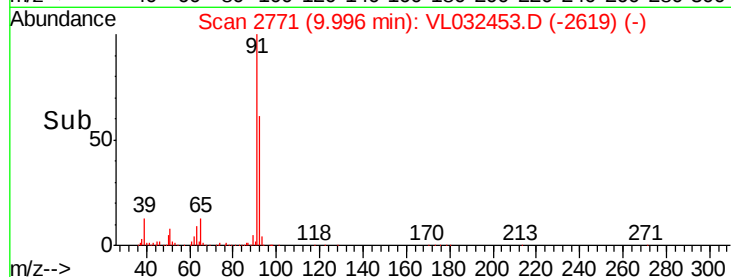
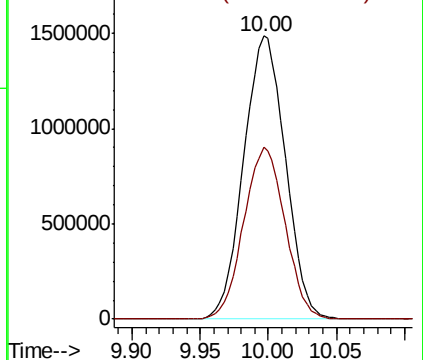
MMDadoda

9/7/2018 10:45:47 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.24 ppbv

RT: 10.81 min Scan# 3024

Delta R.T. -0.01 min

Lab File: VL032453.D

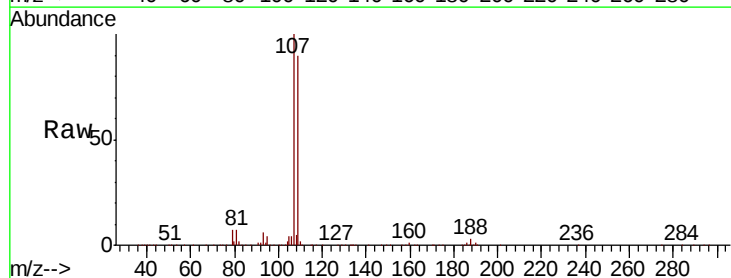
Acq: 5 Sep 2018 10:53

Tgt Ion: 107 Resp: 1826795

Ion Ratio Lower Upper

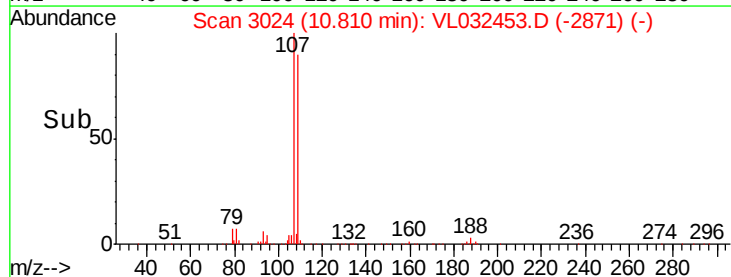
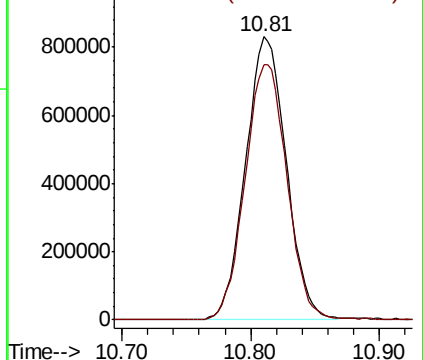
107 100

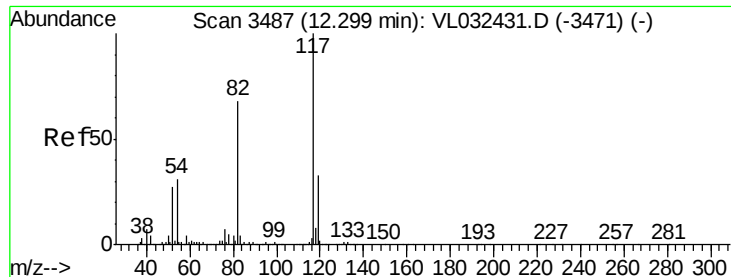
109 90.4 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





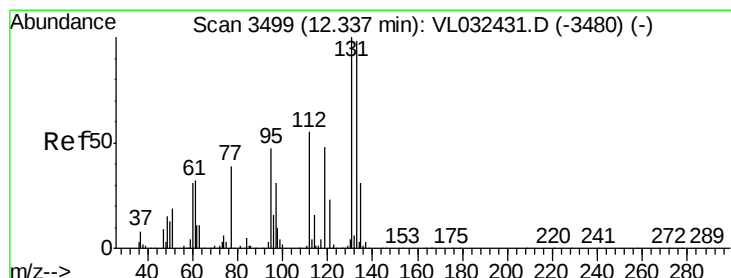
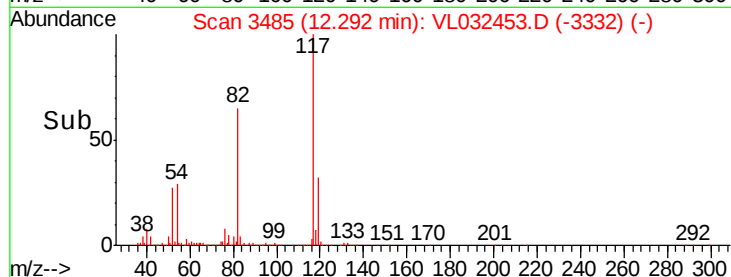
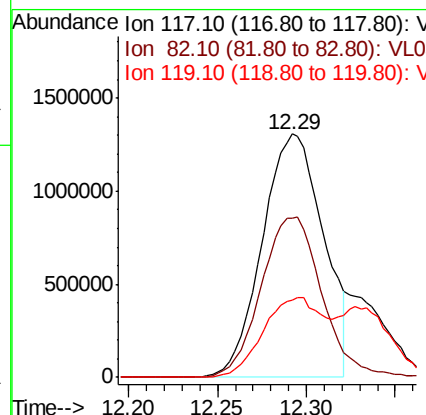
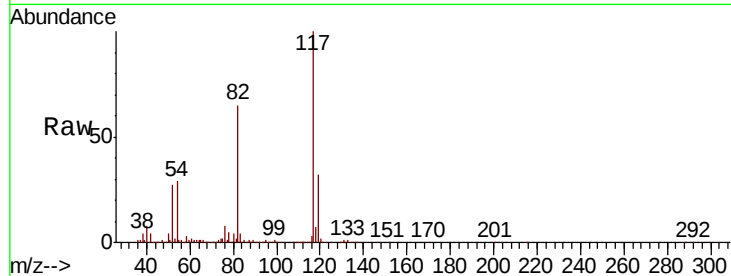
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.8	53.0	79.6
119	32.7	45.9	68.9#

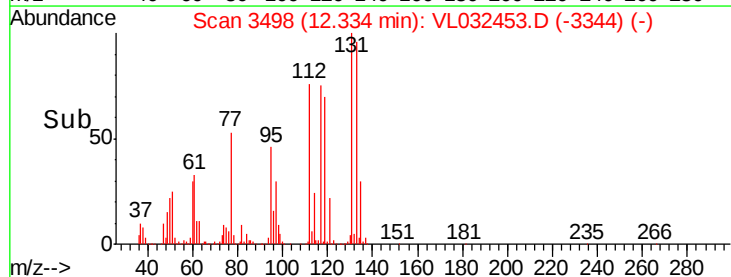
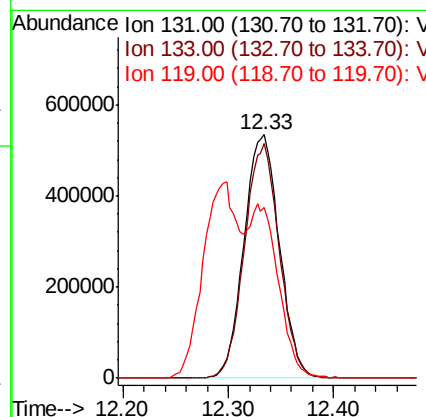
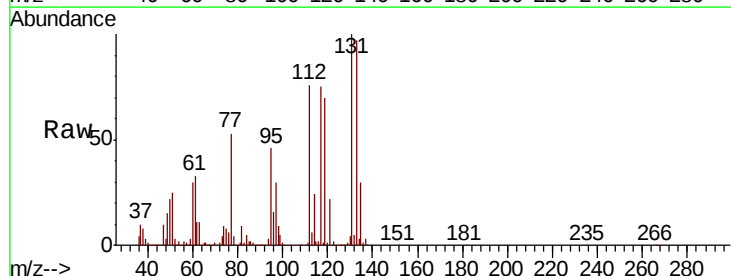
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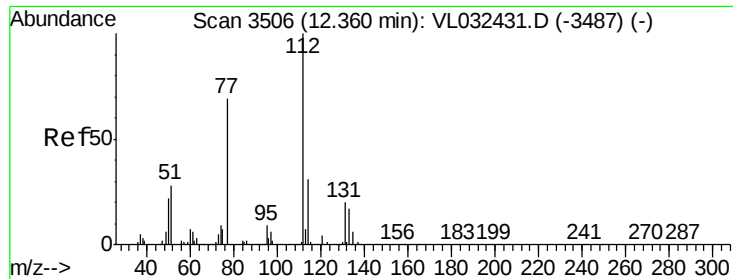
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.84 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	77.0	115.4
119	61.1	114.2	171.2#





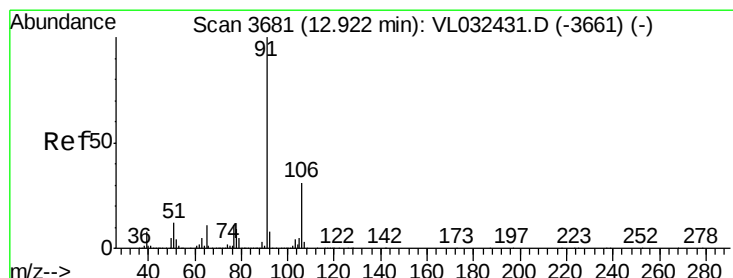
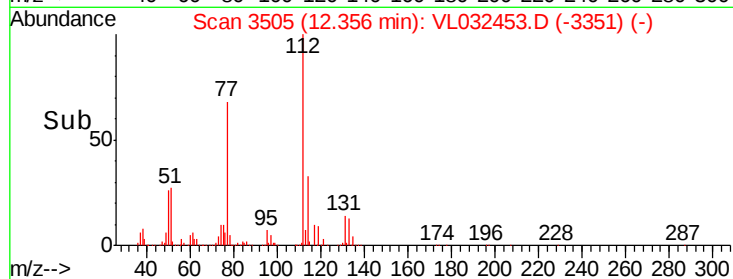
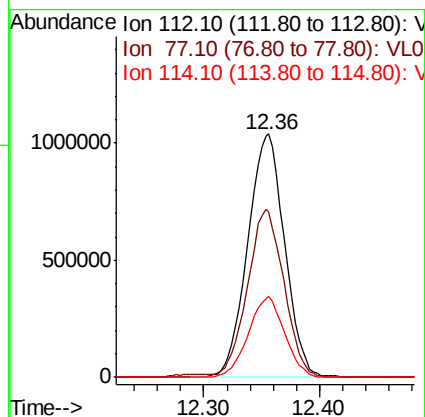
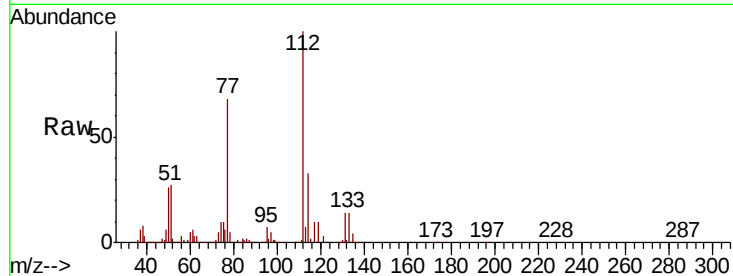
#57
Chlorobenzene
Concen: 9.20 ppbv
RT: 12.36 min Scan# 3505
Delta R.T. -0.00 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 112 Resp: 2305096
Ion Ratio Lower Upper
112 100
77 67.8 56.1 84.1
114 33.1 27.8 34.0

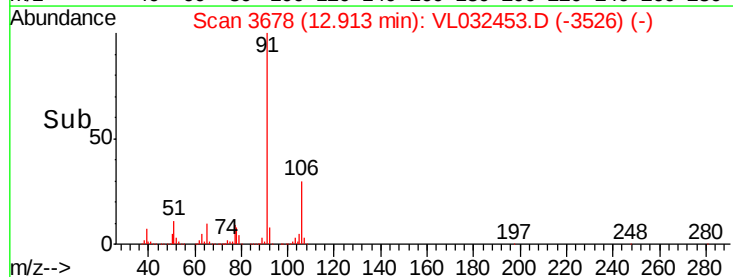
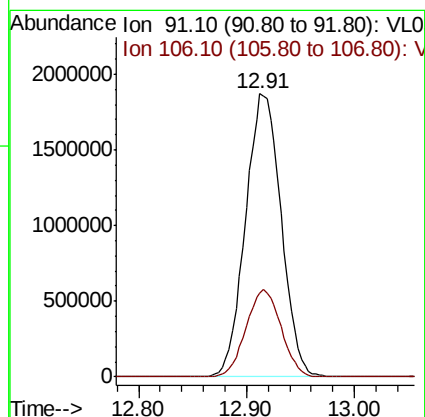
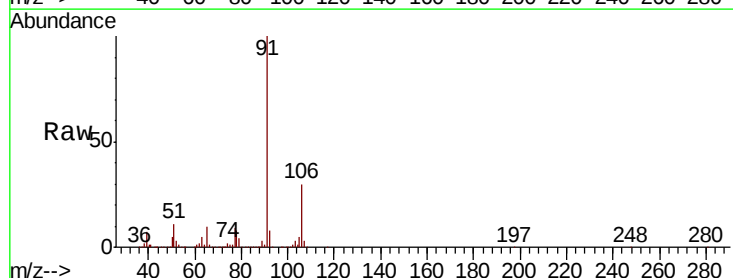
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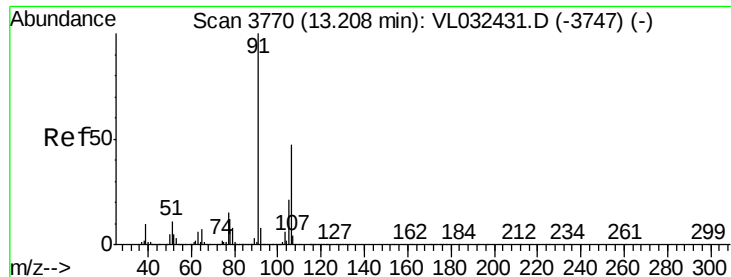
MMDadoda
9/7/2018 10:45:47 AM



#58
Ethyl Benzene
Concen: 11.45 ppbv
RT: 12.91 min Scan# 3678
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion: 91 Resp: 4299080
Ion Ratio Lower Upper
91 100
106 29.7 24.8 37.2





#59

m/p-Xylene

Concen: 20.47 ppbv m

RT: 13.20 min Scan# 3768

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 6848054

Ion Ratio Lower Upper

91 100

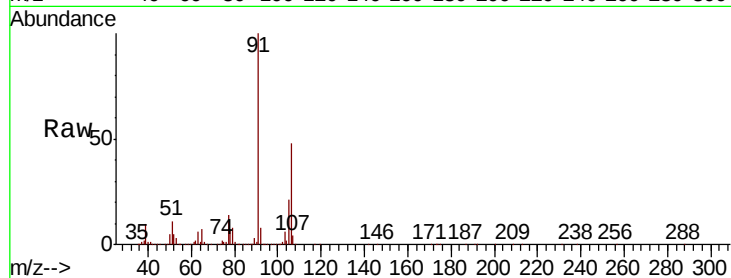
106 0.0 36.6 55.0#

Manual Integrations

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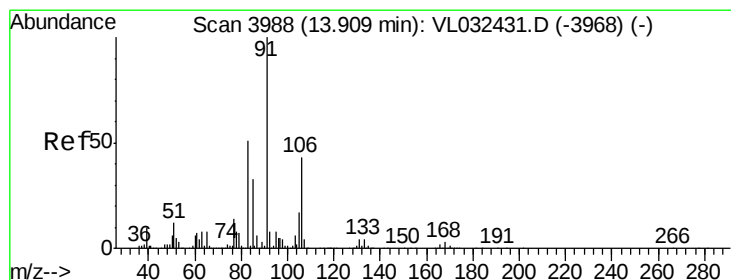
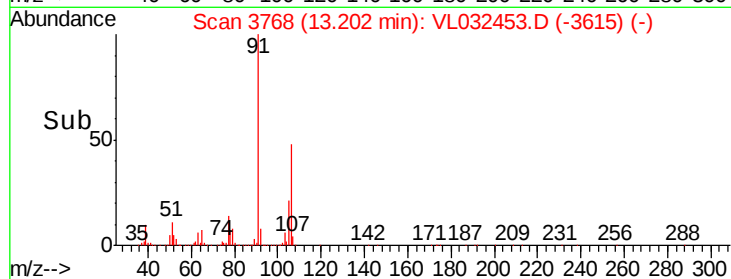
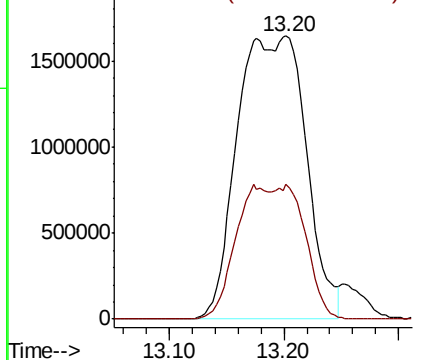
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 10.03 ppbv

RT: 13.90 min Scan# 3986

Delta R.T. -0.01 min

Lab File: VL032453.D

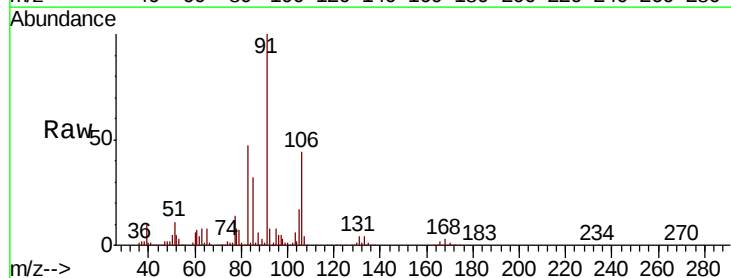
Acq: 5 Sep 2018 10:53

Tgt Ion: 91 Resp: 3295121

Ion Ratio Lower Upper

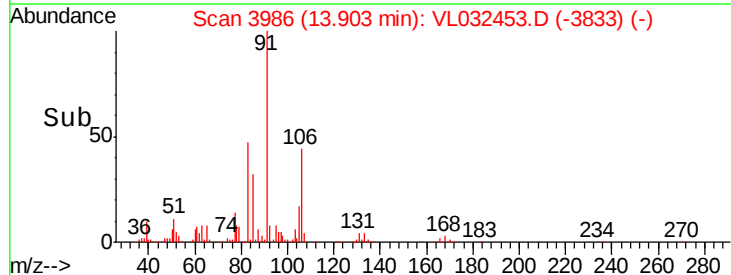
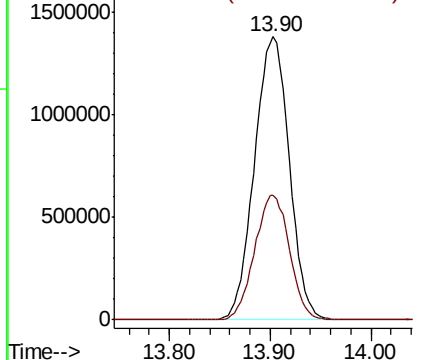
91 100

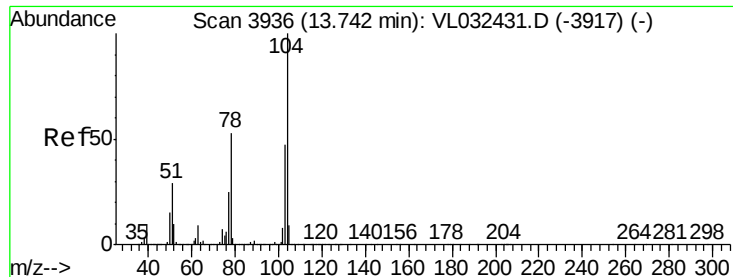
106 44.1 21.9 65.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 12.35 ppbv

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

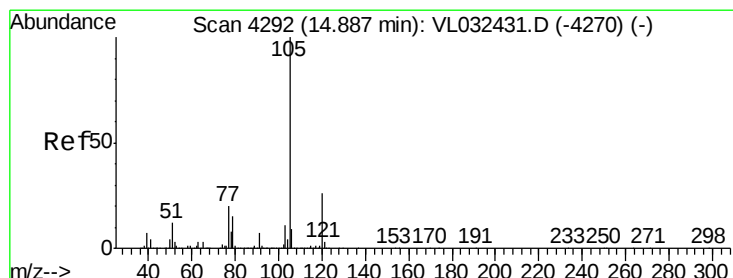
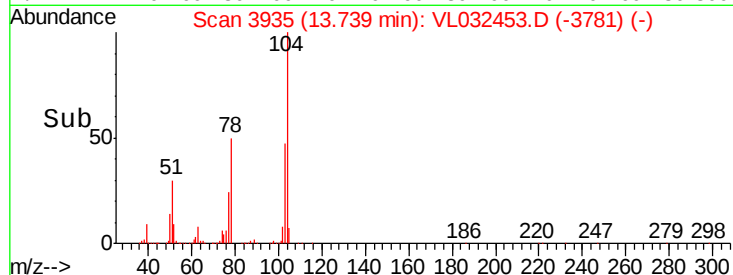
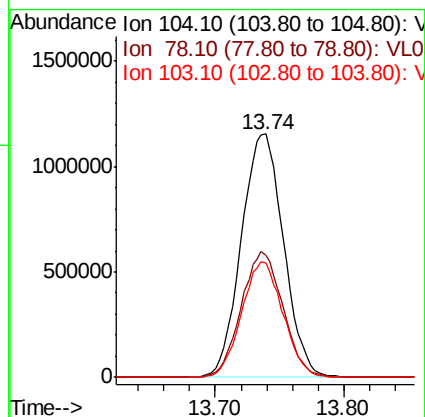
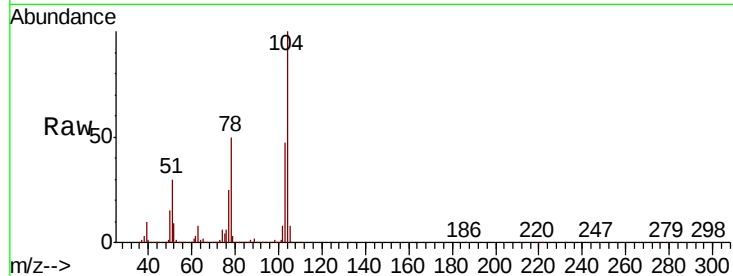
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.0	41.8	62.8
103	46.9	38.0	57.0

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#62

Isopropylbenzene

Concen: 10.33 ppbv

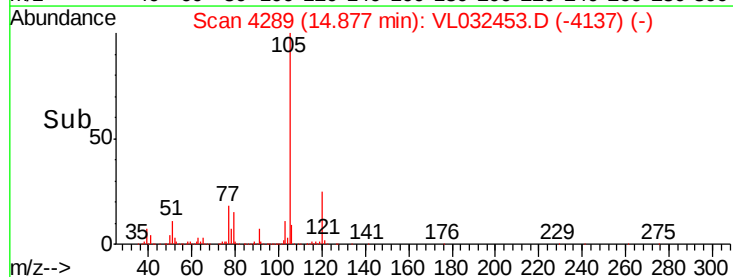
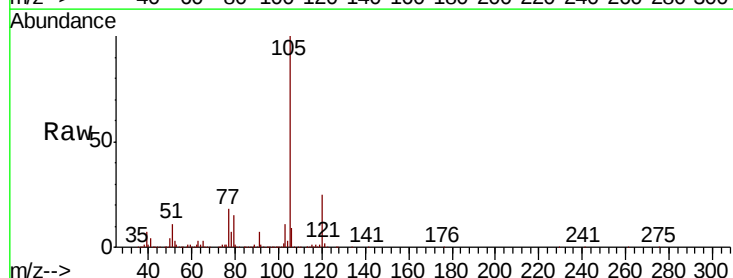
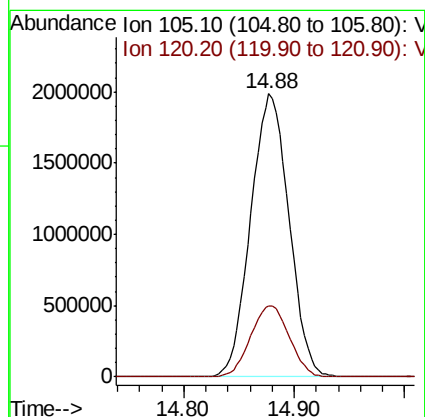
RT: 14.88 min Scan# 4289

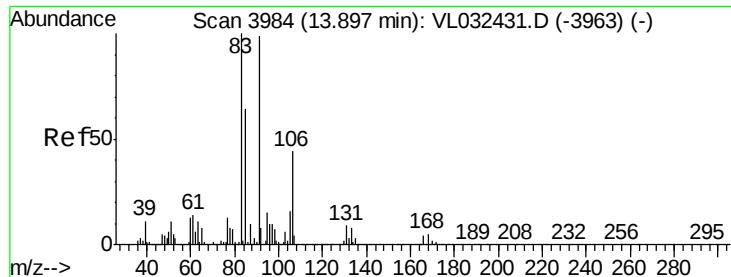
Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 8.11 ppbv

RT: 13.89 min Scan# 3981

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2384529

Ion Ratio Lower Upper

83 100

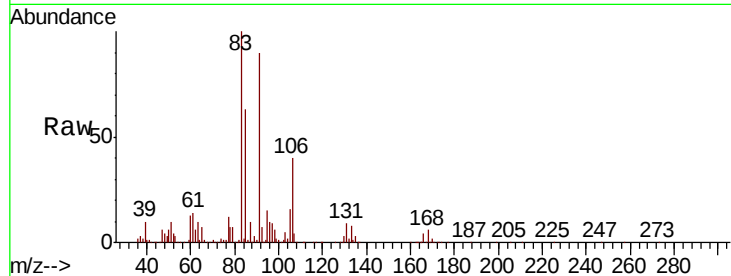
131 8.7 4.3 12.8

85 64.6 32.3 96.8

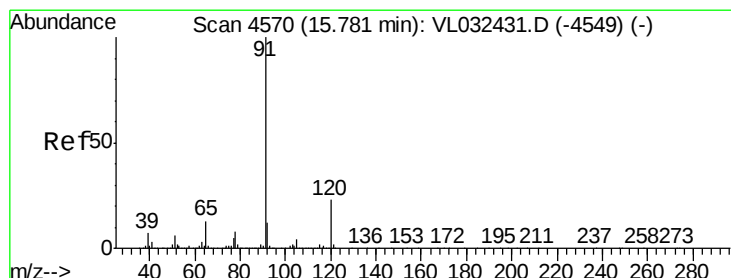
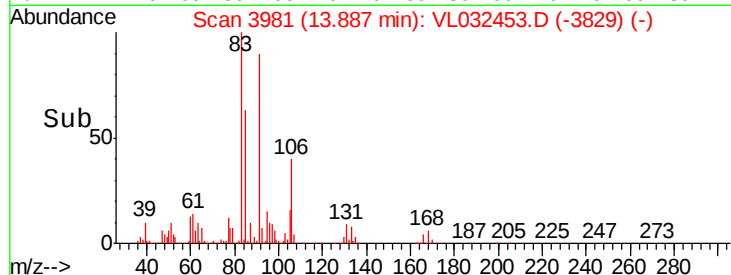
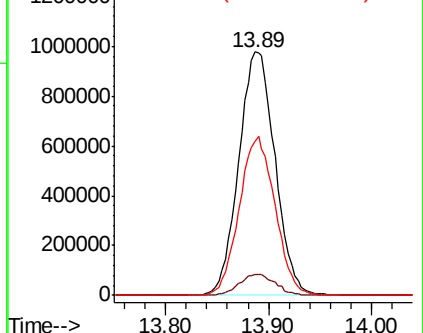
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.50 ppbv

RT: 15.77 min Scan# 4567

Delta R.T. -0.01 min

Lab File: VL032453.D

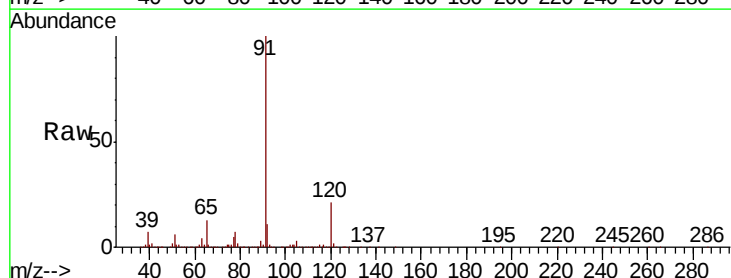
Acq: 5 Sep 2018 10:53

Tgt Ion:120 Resp: 1267895

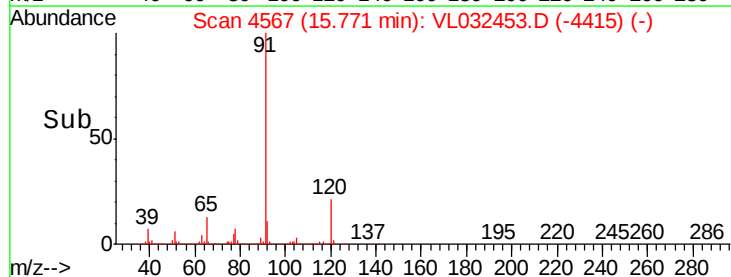
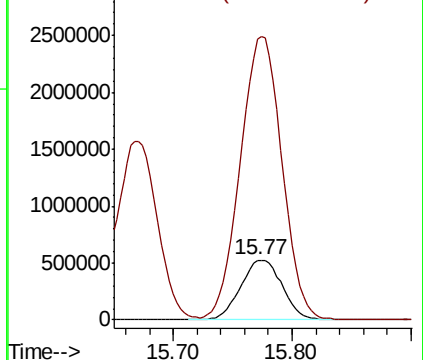
Ion Ratio Lower Upper

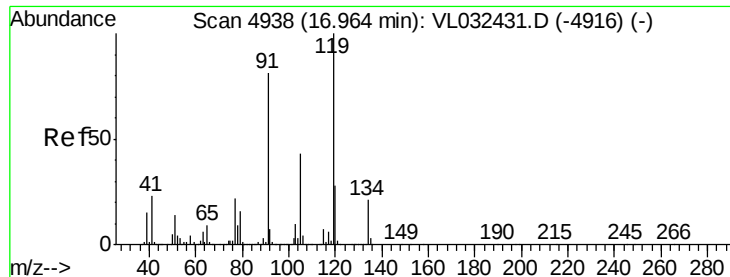
120 100

91 477.3 381.8 572.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





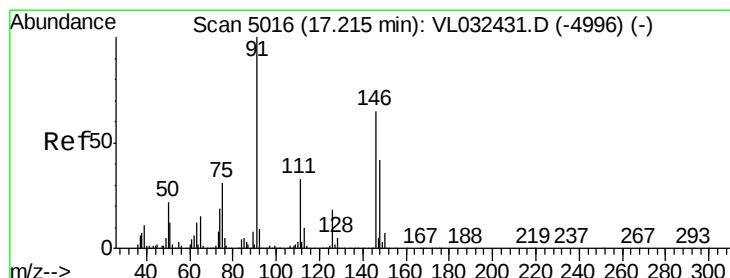
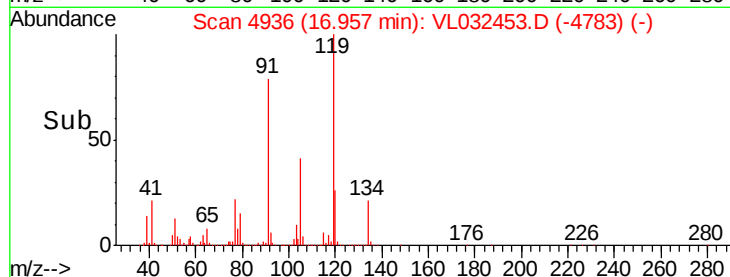
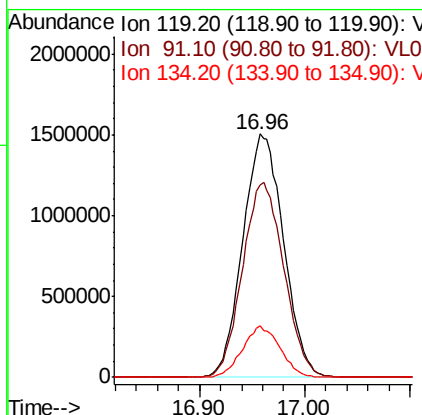
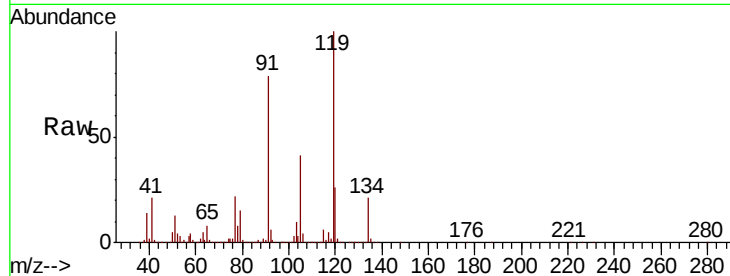
#65
tert-Butylbenzene
Concen: 10.17 ppbv
RT: 16.96 min Scan# 4936
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 4049674
Ion Ratio Lower Upper
119 100
91 81.3 66.5 99.7
134 19.5 16.0 24.0

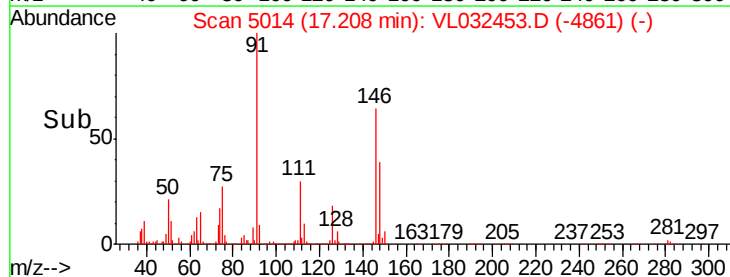
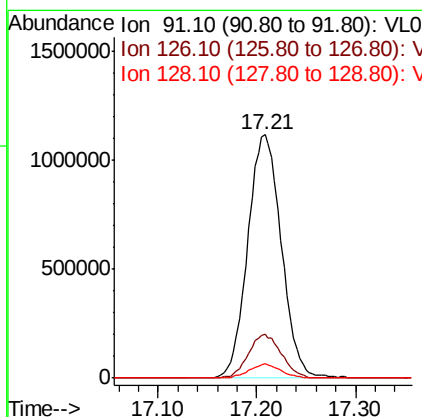
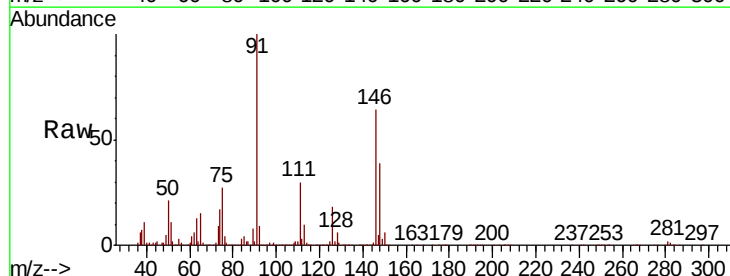
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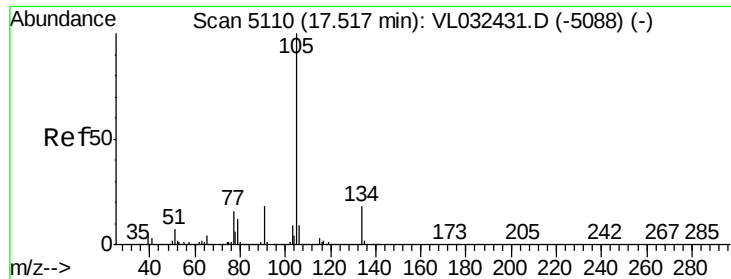
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#66
Benzyl Chloride
Concen: 11.78 ppbv
RT: 17.21 min Scan# 5014
Delta R.T. -0.01 min
Lab File: VL032453.D
Acq: 5 Sep 2018 10:53

Tgt Ion: 91 Resp: 2613471
Ion Ratio Lower Upper
91 100
126 17.8 13.8 20.8
128 5.5 4.4 6.6





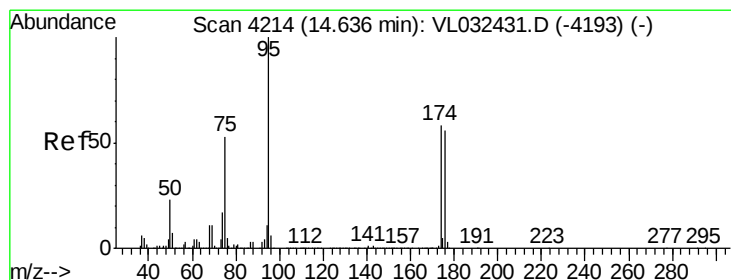
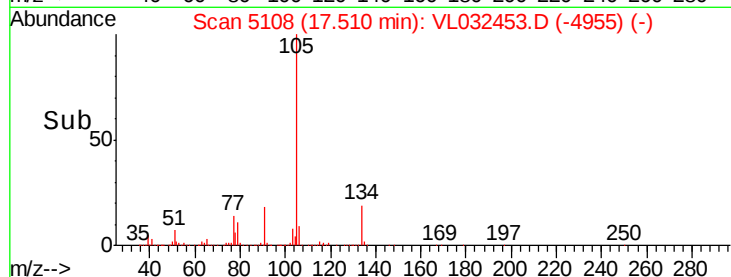
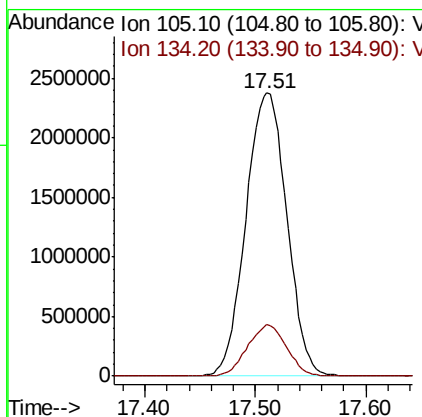
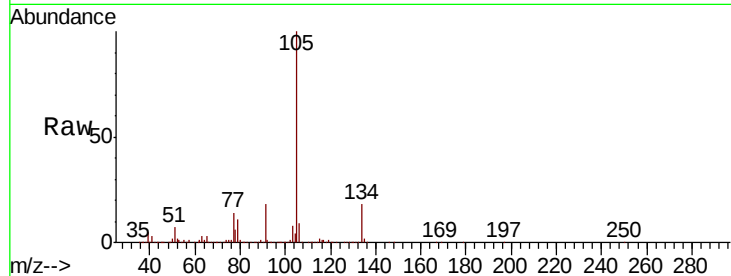
#67
 sec-Butylbenzene
 Concen: 10.20 ppbv
 RT: 17.51 min Scan# 5108
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 6104827
 Ion Ratio Lower Upper
 105 100
 134 17.4 14.4 21.6

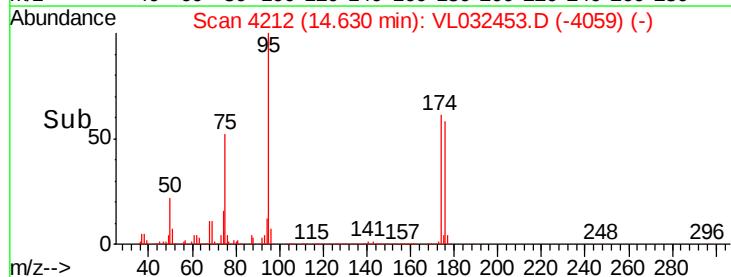
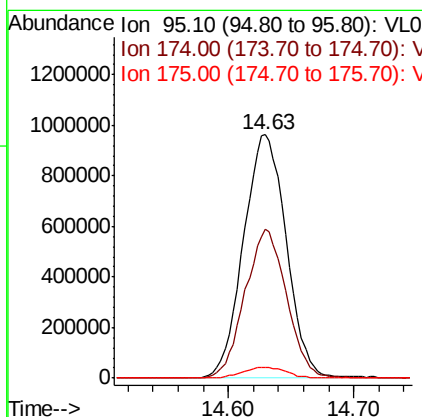
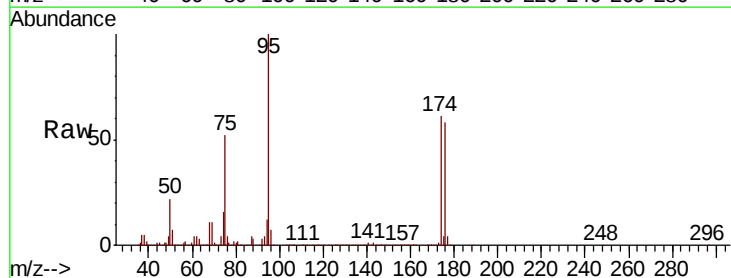
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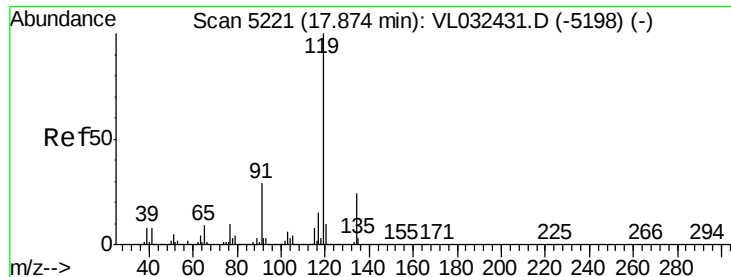
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.80 ppbv
 RT: 14.63 min Scan# 4212
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion: 95 Resp: 2280812
 Ion Ratio Lower Upper
 95 100
 174 59.8 46.3 69.5
 175 4.5 3.4 5.0





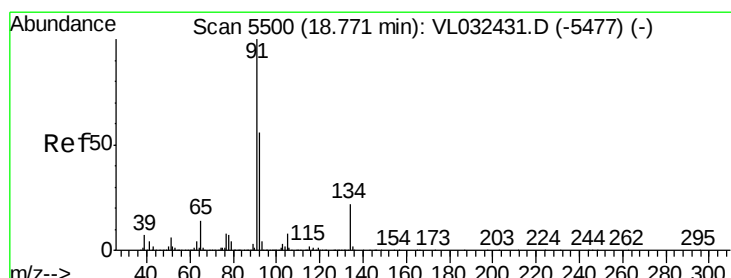
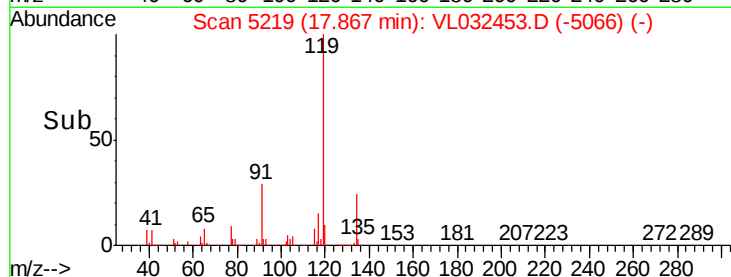
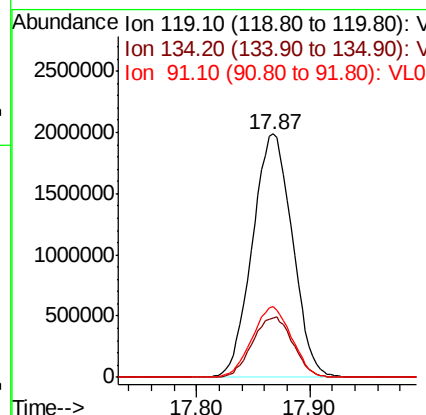
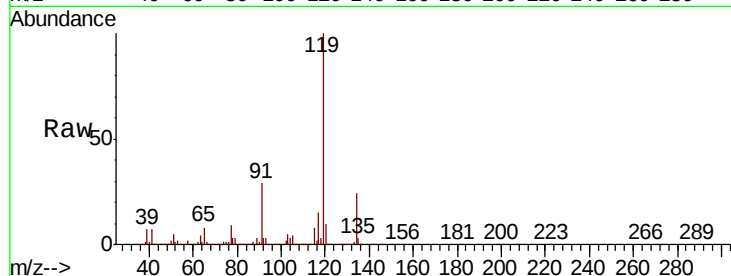
#69
 p-Isopropyltoluene
 Concen: 10.53 ppbv
 RT: 17.87 min Scan# 5219
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.4	30.6
91	28.6	23.4	35.2

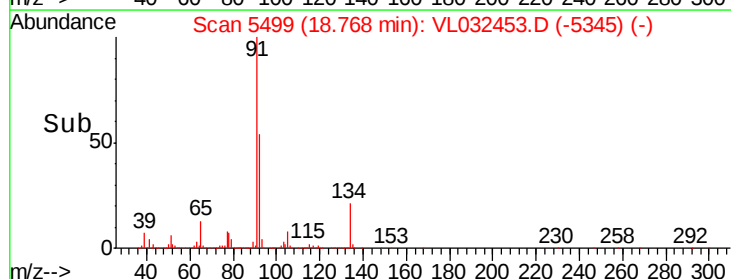
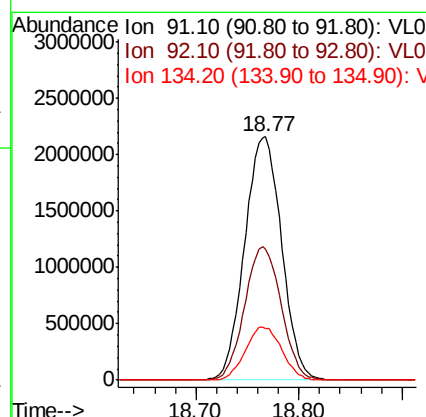
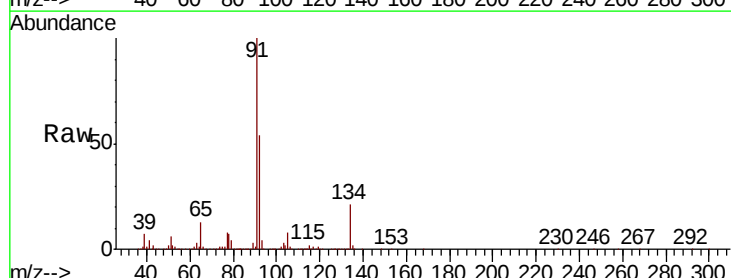
Manual Integrations
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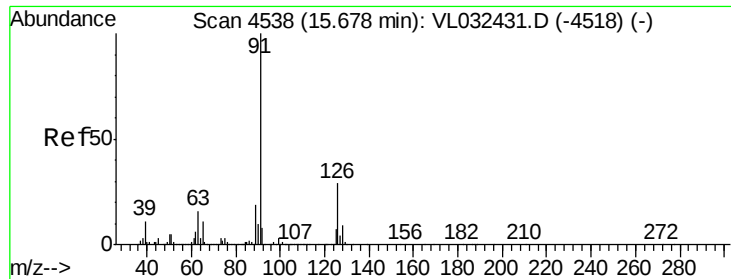
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#70
 n-Butylbenzene
 Concen: 10.19 ppbv
 RT: 18.77 min Scan# 5499
 Delta R.T. -0.00 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.8	65.8
134	21.7	17.4	26.0





#71

2-Chlorotoluene

Concen: 10.78 ppbv

RT: 15.67 min Scan# 4536

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3805054

Ion Ratio Lower Upper

91 100

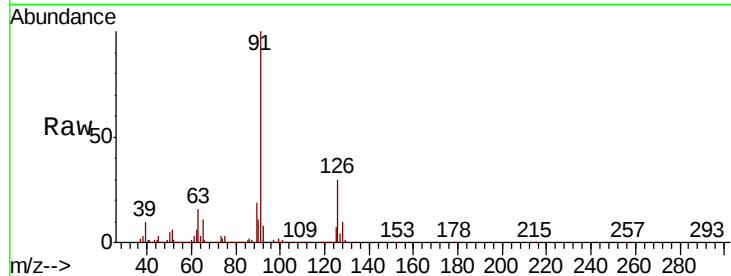
126 29.6 11.9 47.7

Manual Integrations

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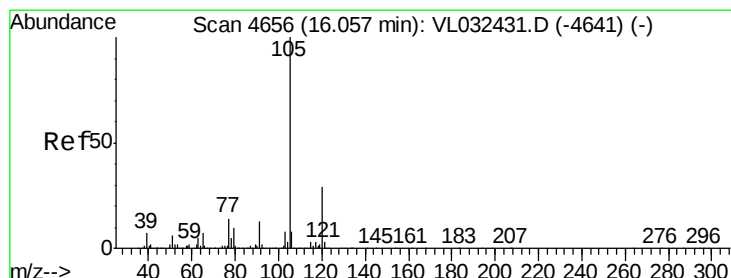
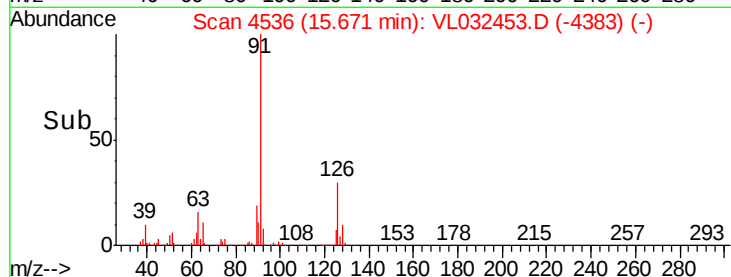
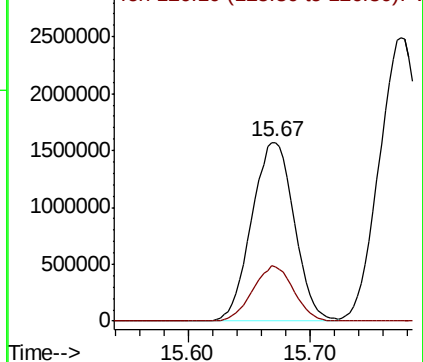
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.28 ppbv

RT: 16.05 min Scan# 4655

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tgt Ion:105 Resp: 4049102

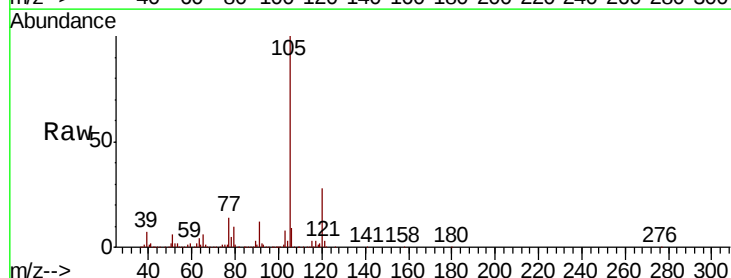
Ion Ratio Lower Upper

105 100

120 28.8 23.5 35.3

91 11.9 10.2 15.2

77 13.4 11.1 16.7

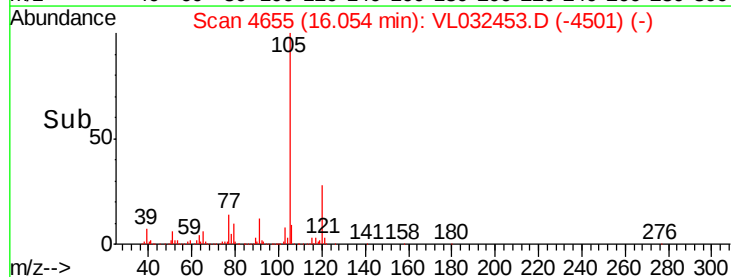
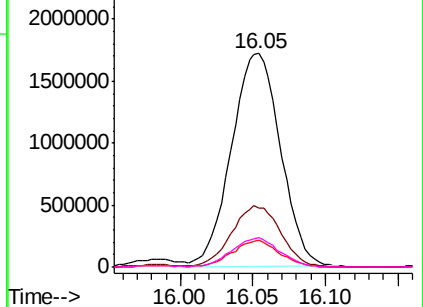


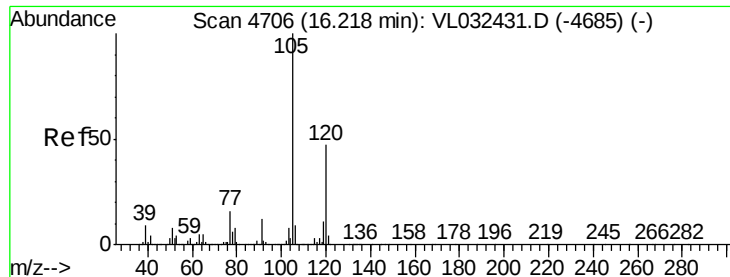
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.70 ppbv

RT: 16.21 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3848417

Ion Ratio Lower Upper

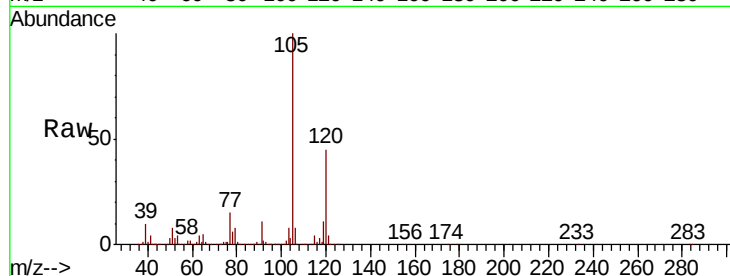
105 100

120 45.1 37.9 56.9

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.21

1500000

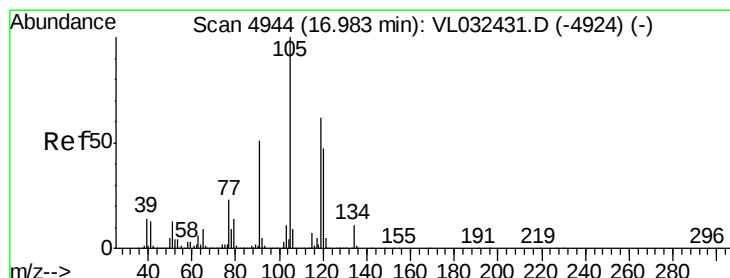
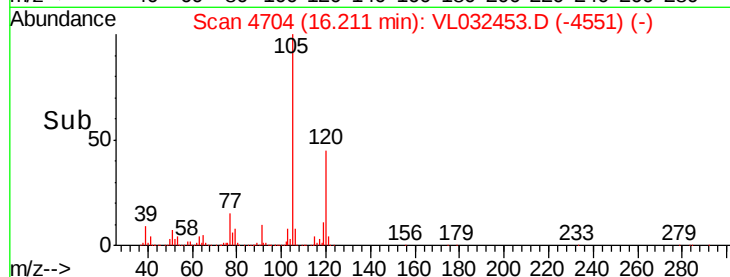
1000000

500000

0

Time-->

16.10 16.20 16.30



#74

1,2,4-Trimethylbenzene

Concen: 9.57 ppbv

RT: 16.98 min Scan# 4943

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tgt Ion:105 Resp: 3760790

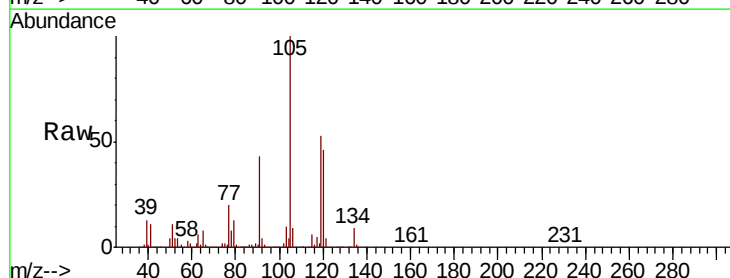
Ion Ratio Lower Upper

105 100

120 46.1 37.8 56.8

91 42.6 41.4 62.0

77 19.7 18.6 28.0



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

2500000

2000000

1500000

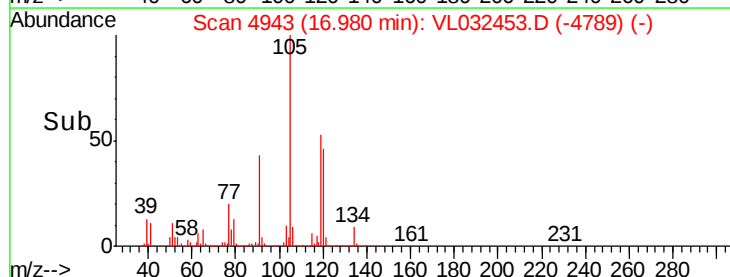
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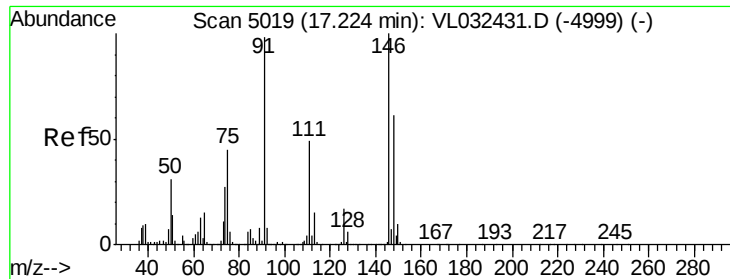
500000

0

Time-->

16.90 17.00





#75

1,3-Dichlorobenzene

Concen: 9.07 ppbv

RT: 17.22 min Scan# 5017

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2115977

Ion Ratio Lower Upper

146 100

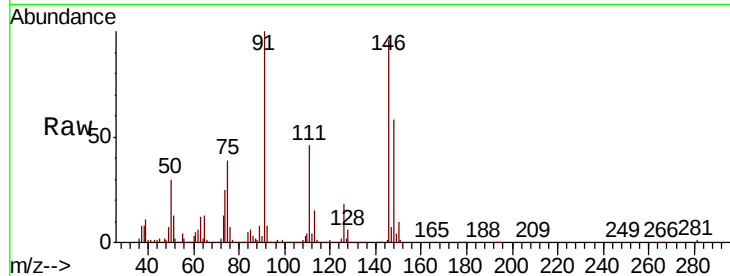
111 48.3 24.5 73.5

148 63.9 32.0 96.2

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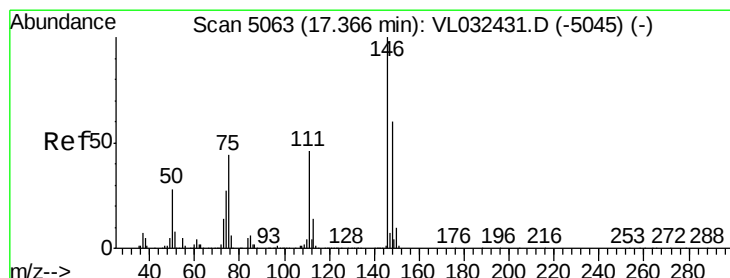
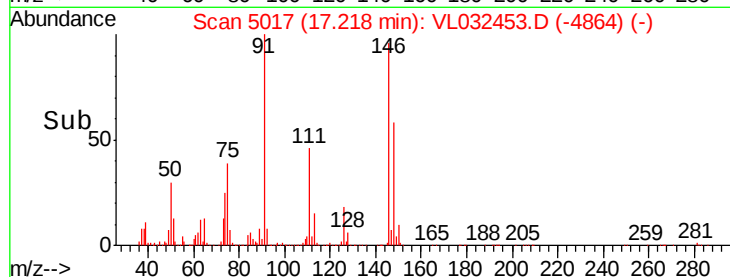
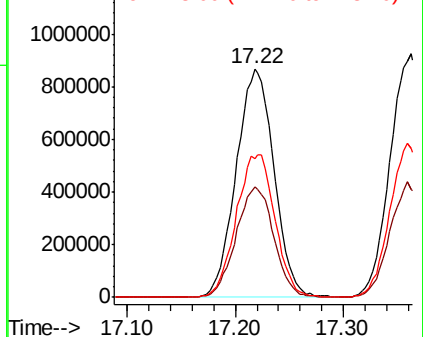


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.04 ppbv

RT: 17.36 min Scan# 5062

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

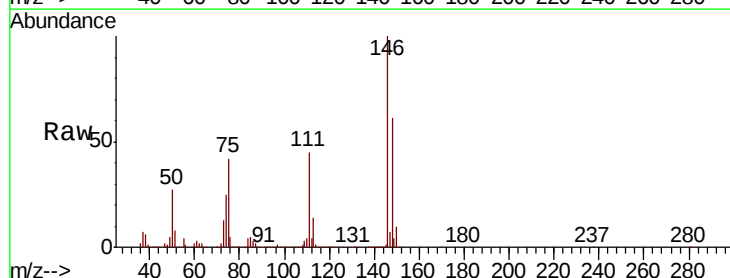
Tgt Ion:146 Resp: 2172169

Ion Ratio Lower Upper

146 100

111 46.6 23.4 70.2

148 63.9 32.0 96.2

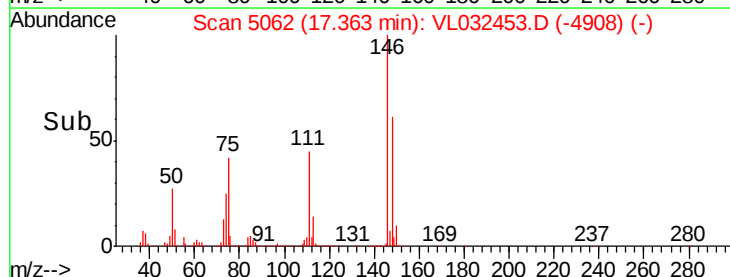
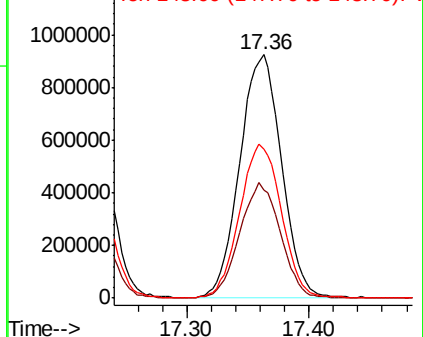


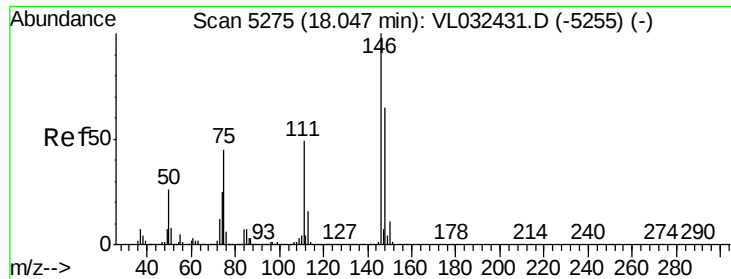
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.59 ppbv

RT: 18.04 min Scan# 5273

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

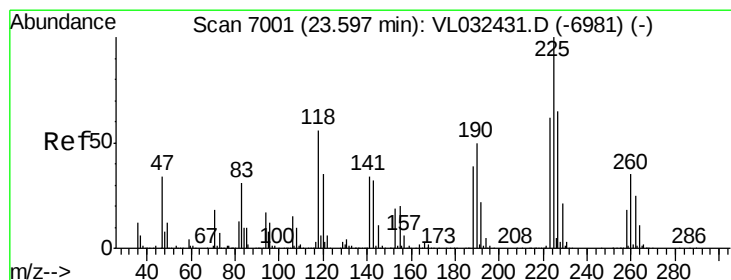
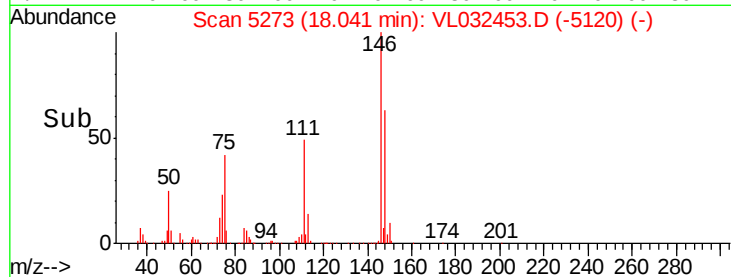
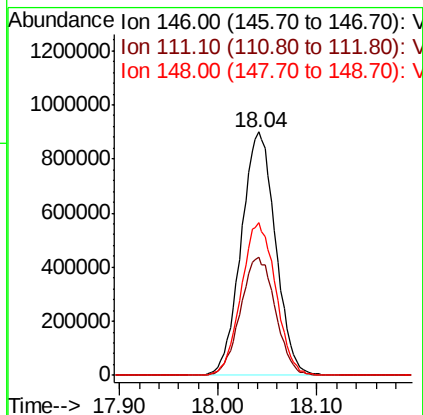
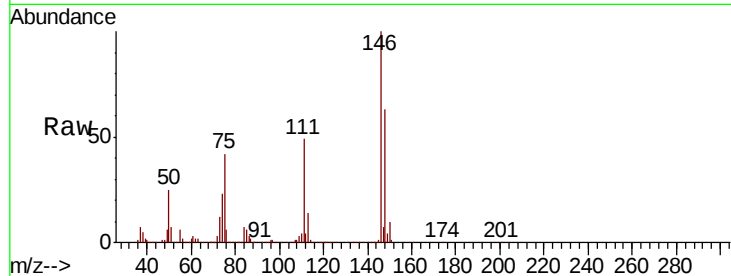
ClientSampleId :

VSTDCCC010

Tot Ion:	146	Resp:	2158776
Ion	Ratio	Lower	Upper
146	100		
111	49.3	24.9	74.8
148	63.1	32.0	96.0

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#78

Hexachloro-1,3-Butadiene

Concen: 8.48 ppbv

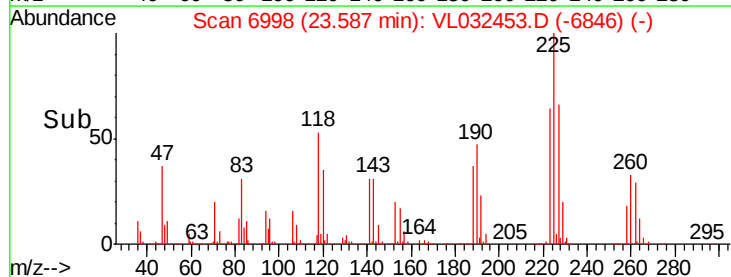
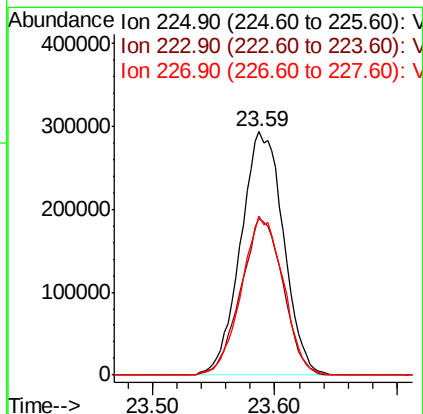
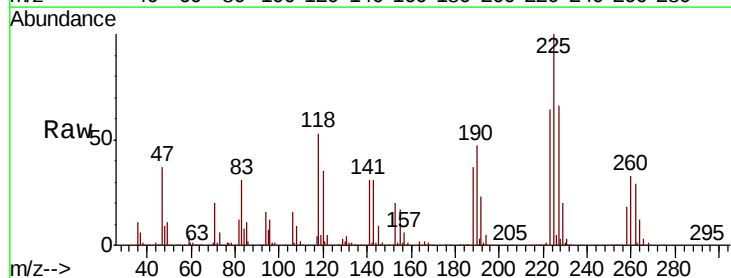
RT: 23.59 min Scan# 6998

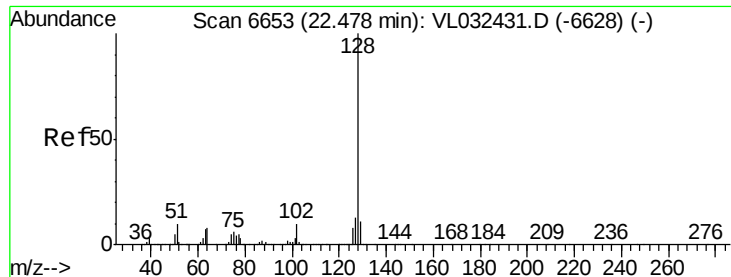
Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Tgt Ion:	225	Resp:	712730
Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.6	76.0
227	64.0	51.2	76.8





#79

Naphthalene

Concen: 12.06 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.01 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3855302

Ion Ratio Lower Upper

128 100

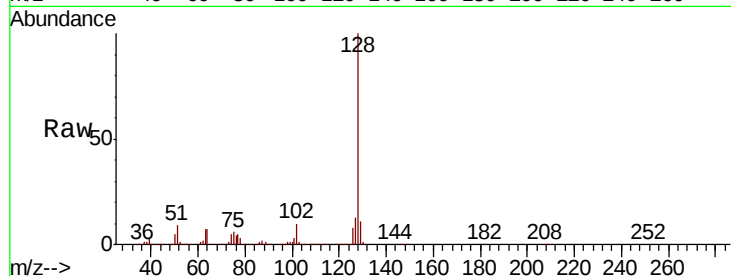
127 13.5 10.2 15.2

129 11.4 8.5 12.7

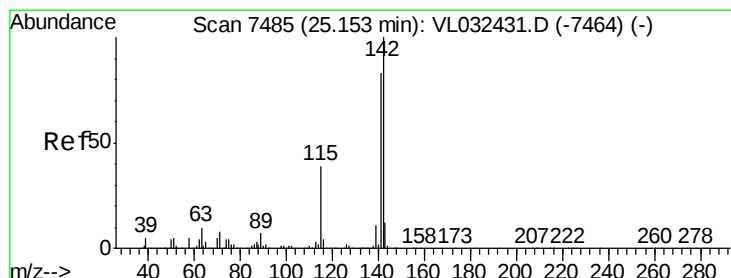
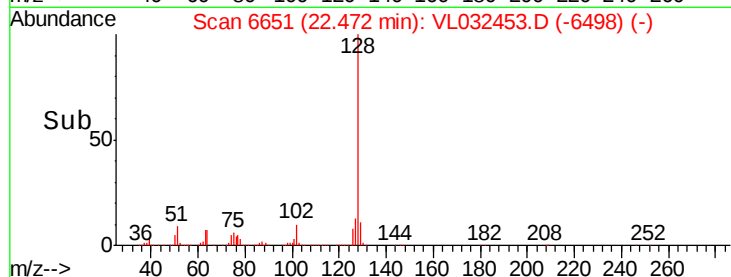
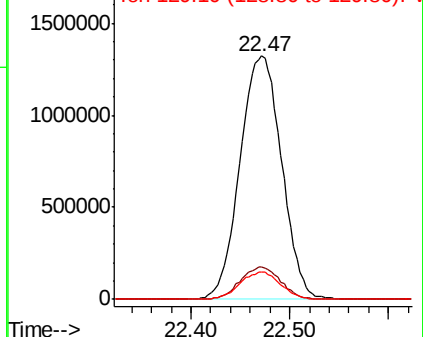
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 17.97 ppbv

RT: 25.15 min Scan# 7484

Delta R.T. -0.00 min

Lab File: VL032453.D

Acq: 5 Sep 2018 10:53

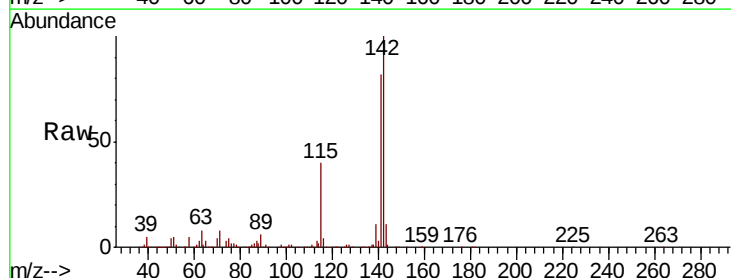
Tgt Ion:142 Resp: 1528298

Ion Ratio Lower Upper

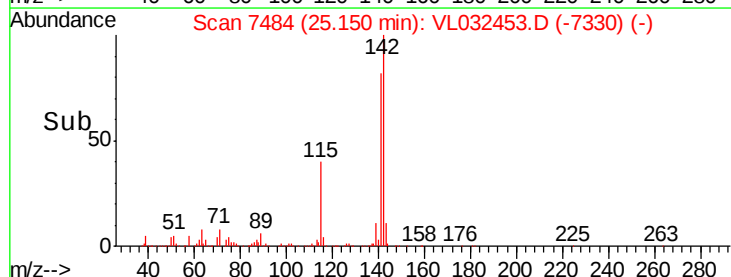
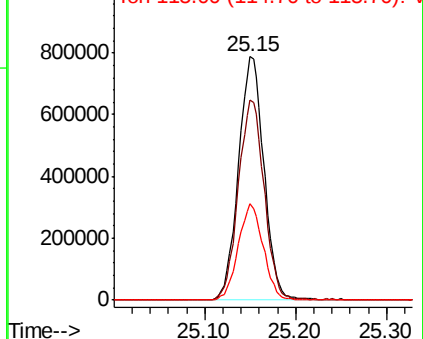
142 100

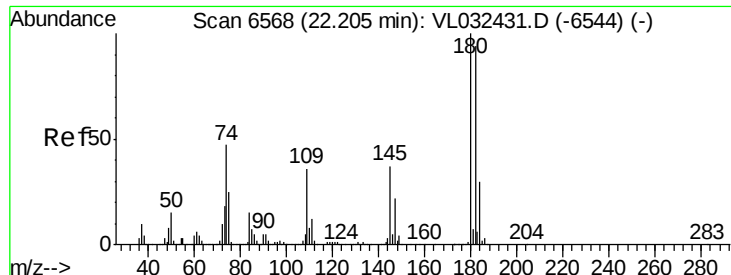
141 84.3 67.0 100.6

115 39.0 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.22 ppbv
 RT: 22.19 min Scan# 6564
 Delta R.T. -0.01 min
 Lab File: VL032453.D
 Acq: 5 Sep 2018 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
184	30.2	23.8	35.8

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:47 AM

