

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032288.D
 Acq On : 19 Jul 2018 9:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:35 PM

Quant Time: Jul 20 01:53:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1629487	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3607234	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4263504m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3306548	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	1939561m	7.00	ppbv
3) Chlorodifluoromethane	3.06	51	1814535	9.92	ppbv 98
4) Chloromethane	3.22	50	1115238	10.36	ppbv 98
5) Vinyl Chloride	3.34	62	1017773	9.97	ppbv 98
6) Bromomethane	3.57	94	561612	10.09	ppbv 99
7) Chloroethane	3.66	64	363174	10.03	ppbv 99
8) Dichlorotetrafluoroethane	3.27	85	2126981	9.41	ppbv 100
9) Propene	3.09	41	889470	11.13	ppbv 99
10) Heptane	8.33	43	2720828	10.71	ppbv 98
11) Trichlorofluoromethane	4.06	101	2023936	9.34	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1324797	9.59	ppbv 98
13) Ethanol	3.71	45	223366	9.78	ppbv 100
14) Bromoethene	3.85	108	628395	10.09	ppbv 99
15) Acetone	3.96	43	1589827	9.32	ppbv 99
16) 1,3-Butadiene	3.41	39	887450	10.22	ppbv 99
17) tert-Butyl alcohol	4.42	59	564404	10.49	ppbv 100
18) 1,1-Dichloroethene	4.42	96	644178	9.98	ppbv 99
19) Isopropyl Alcohol	4.08	45	1244994	10.79	ppbv 100
20) Methylene Chloride	4.47	84	568485	8.66	ppbv 98
21) Allyl Chloride	4.54	41	1169014	10.41	ppbv 99
22) trans-1,2-Dichloroethene	5.03	96	675692	10.09	ppbv 99
23) Vinyl Acetate	5.22	43	3321762	10.86	ppbv 99
24) 1,1-Dichloroethane	5.16	63	2200501	9.92	ppbv 99
25) Ethyl Acetate	5.84	43	3743724	10.08	ppbv 100
26) Hexane	5.86	57	1705419	10.00	ppbv 100
27) Carbon Disulfide	4.69	76	1660662	10.99	ppbv 100
28) Methyl tert-Butyl Ether	5.18	73	2580763	10.20	ppbv 100
29) Chloroform	5.93	83	2451992	9.75	ppbv 99
30) Cyclohexane	7.33	84	1480982	10.35	ppbv 99
31) cis-1,2-Dichloroethene	5.72	61	1728353	10.57	ppbv 99
32) 1,1,1-Trichloroethane	6.70	97	2441448	9.59	ppbv 98
34) 2-Butanone	5.40	43	2649494	10.70	ppbv 99
35) Carbon Tetrachloride	7.22	117	2351164	9.48	ppbv 100
36) Benzene	7.09	78	3524991	9.93	ppbv 99
37) 1,2-Dichloroethane	6.49	62	2044471	9.75	ppbv 100
38) Trichloroethene	8.05	130	1168279	9.95	ppbv 99
39) 1,2-Dichloropropane	7.82	63	1431162	10.18	ppbv 98
40) 1,4-Dioxane	8.04	88	480099	11.56	ppbv # 23
41) Tetrahydrofuran	6.22	42	1599753	11.08	ppbv 98
42) Bromodichloromethane	8.00	83	2659268	10.07	ppbv 98
43) Methyl Methacrylate	8.22	69	1618364	11.12	ppbv 98

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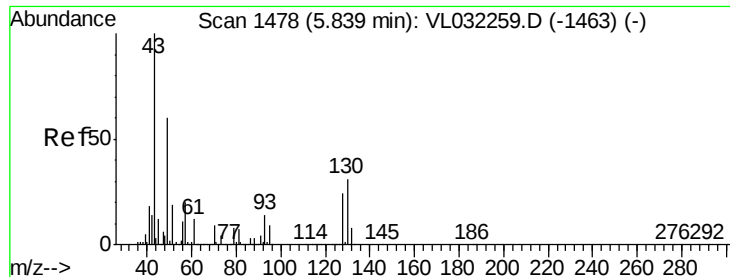
Manual Integrations
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 7/20/2018 2:53:35 PM

Quant Time: Jul 20 01:53:59 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 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6235393	10.08	ppbv	99
45) t-1,3-Dichloropropene	9.50	75	1922067	11.21	ppbv	98
46) cis-1,3-Dichloropropene	8.92	75	2639226	12.07	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1422474	9.36	ppbv	97
48) Dibromochloromethane	10.54	129	2167430	9.78	ppbv	100
49) Bromoform	13.30	173	2075950	10.74	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4655968	11.43	ppbv	99
51) 2-Hexanone	10.36	43	3250606	10.47	ppbv #	99
52) Tetrachloroethene	11.47	164	1238201	10.21	ppbv	96
53) Toluene	10.04	91	4670265	10.85	ppbv	100
54) 1,2-Dibromoethane	10.85	107	2364536	10.55	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.37	131	1838155	9.68	ppbv	98
57) Chlorobenzene	12.40	112	3386784	9.68	ppbv	99
58) Ethyl Benzene	12.95	91	6283035	10.46	ppbv	100
59) m/p-Xylene	13.24	91	10175736m	19.85	ppbv	
60) o-Xylene	13.94	91	4903514	9.61	ppbv	99
61) Styrene	13.77	104	3971778	10.48	ppbv	99
62) Isopropylbenzene	14.92	105	6962966	9.52	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.93	83	3610195	8.30	ppbv	100
64) n-propylbenzene	15.81	120	1796866	9.56	ppbv	97
65) tert-Butylbenzene	17.00	119	5635433	9.04	ppbv	100
66) Benzyl Chloride	17.25	91	3696799	10.53	ppbv	99
67) sec-Butylbenzene	17.55	105	8498933	9.14	ppbv	100
69) p-Isopropyltoluene	17.91	119	6755806	9.40	ppbv	99
70) n-Butylbenzene	18.80	91	7485659	9.34	ppbv	100
71) 2-Chlorotoluene	15.71	91	5544593	9.45	ppbv	99
72) 4-Ethyltoluene	16.09	105	5793881	9.83	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	5485243	9.51	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	5404877	8.96	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	2955822	8.81	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	3024181	9.09	ppbv	100
77) 1,2-Dichlorobenzene	18.08	146	2920180	9.01	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	1781354	16.95	ppbv	100
79) Naphthalene	22.52	128	5155182	10.17	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	2345867	10.89	ppbv	99
81) 1,2,4-Trichlorobenzene	22.24	180	2420634	9.79	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. 0.00 min

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1629487

Ion Ratio Lower Upper

49 100

128 39.6 20.1 60.2

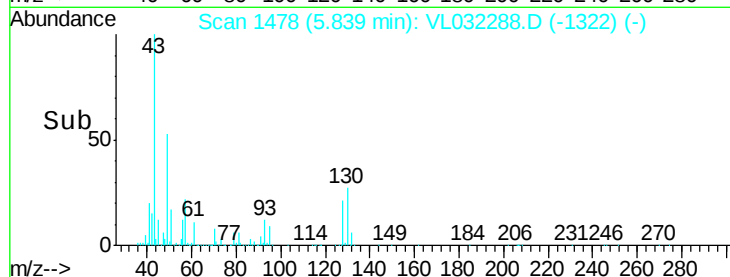
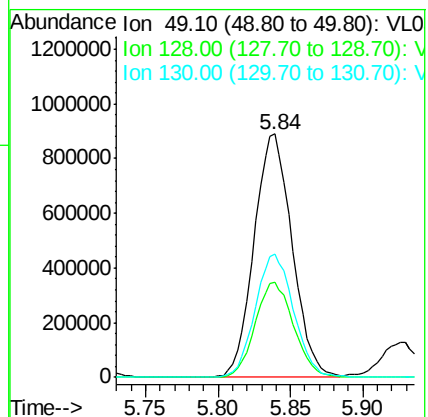
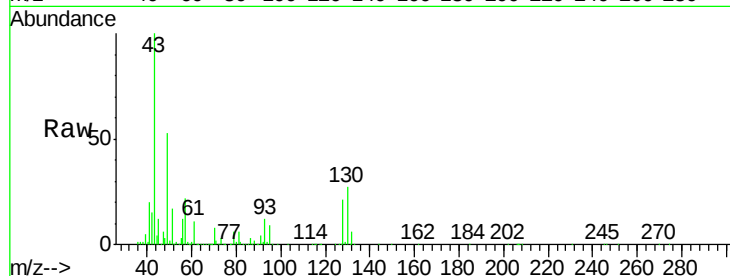
130 51.2 25.9 77.6

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 7.00 ppbv m

RT: 3.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: VL032288.D

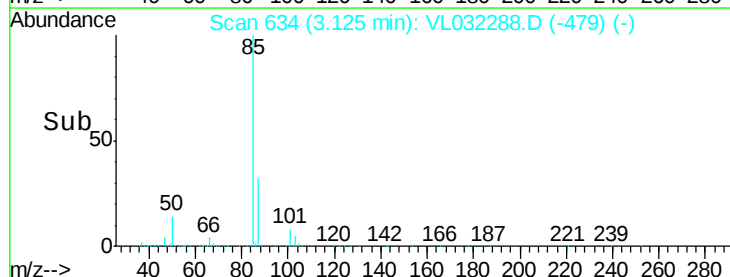
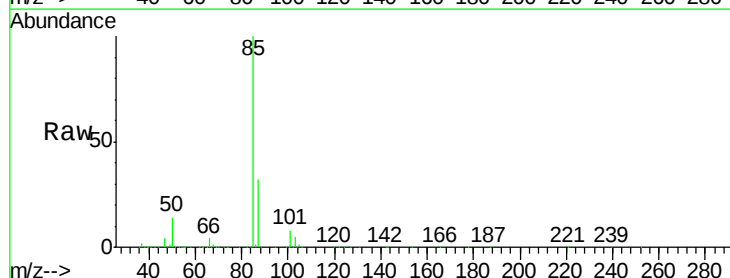
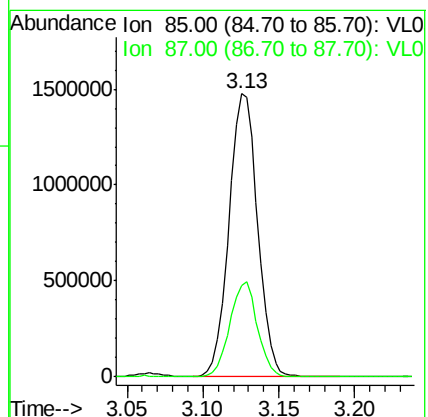
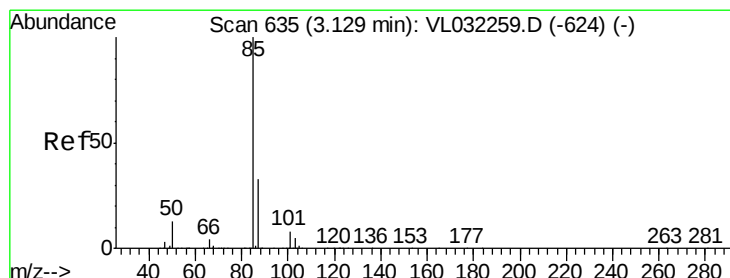
Acq: 19 Jul 2018 9:01

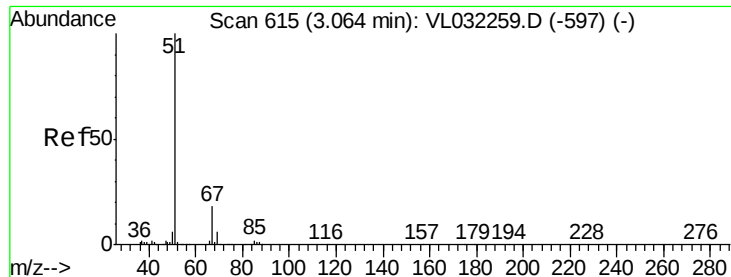
Tgt Ion: 85 Resp: 1939561

Ion Ratio Lower Upper

85 100

87 32.1 26.2 39.2





#3

Chlorodifluoromethane

Concen: 9.92 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1814535

Ion Ratio Lower Upper

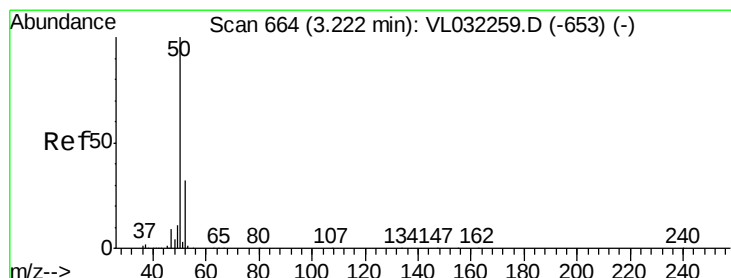
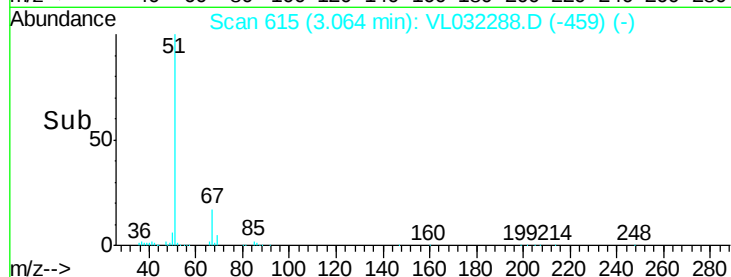
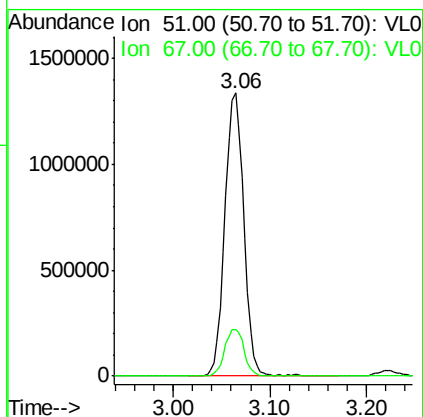
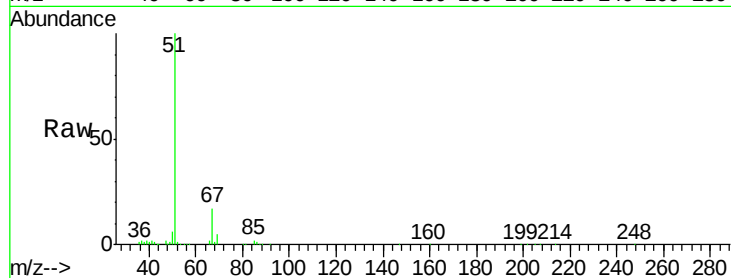
51 100

67 17.1 14.2 21.4

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#4

Chloromethane

Concen: 10.36 ppbv

RT: 3.22 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL032288.D

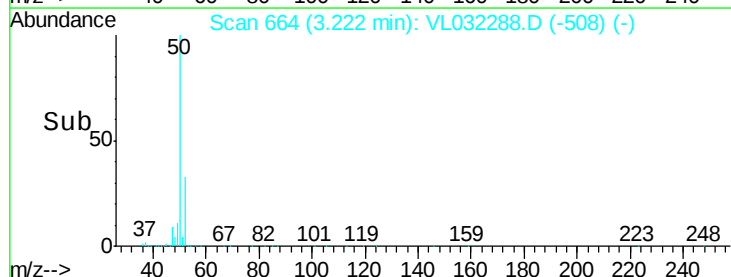
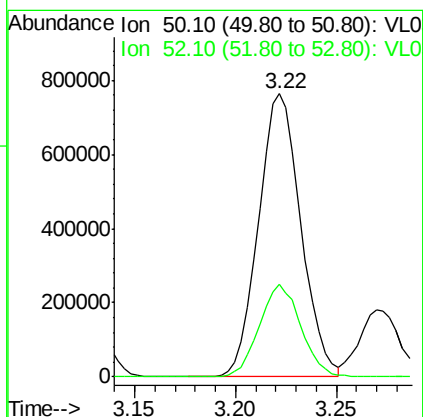
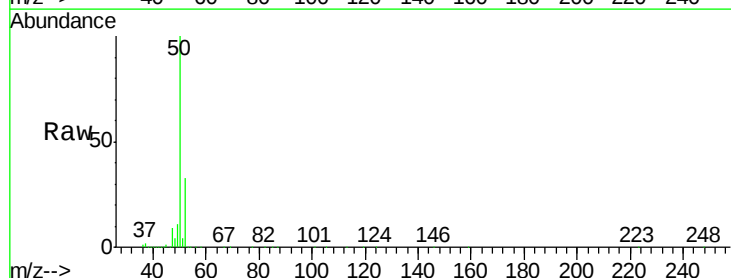
Acq: 19 Jul 2018 9:01

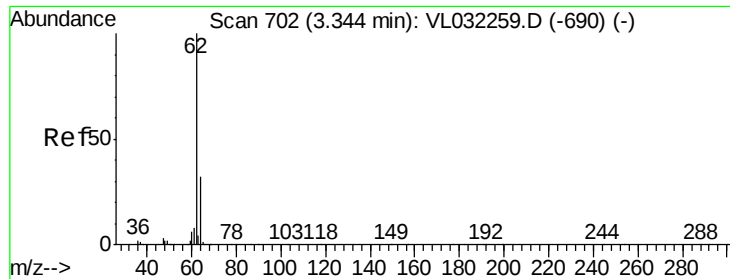
Tgt Ion: 50 Resp: 1115238

Ion Ratio Lower Upper

50 100

52 32.6 25.3 37.9





#5

Vinyl Chloride

Concen: 9.97 ppbv

RT: 3.34 min Scan# 702

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1017773

Ion Ratio Lower Upper

62 100

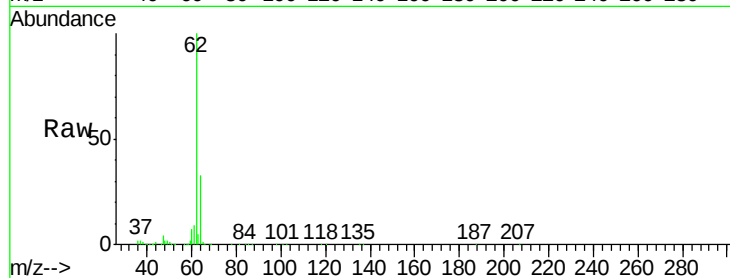
64 32.5 25.3 37.9

Manual Integrations

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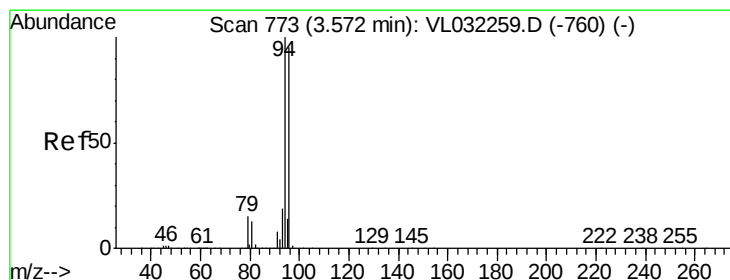
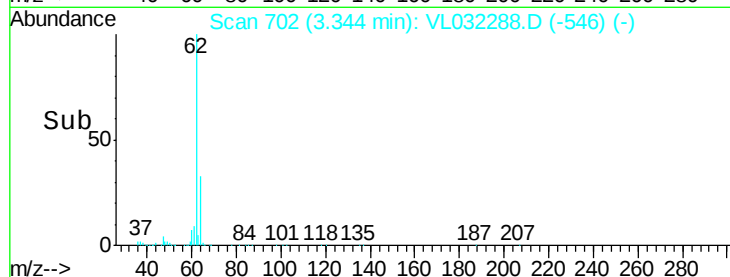
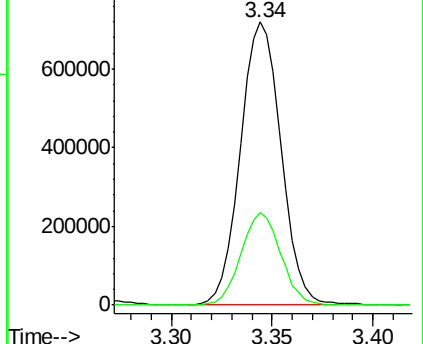
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.09 ppbv

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VL032288.D

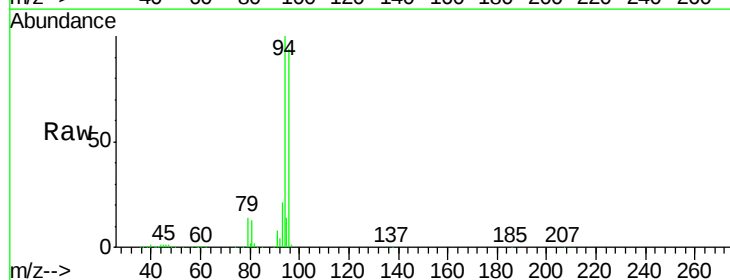
Acq: 19 Jul 2018 9:01

Tgt Ion: 94 Resp: 561612

Ion Ratio Lower Upper

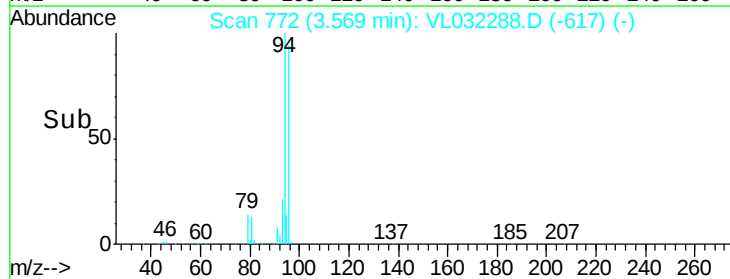
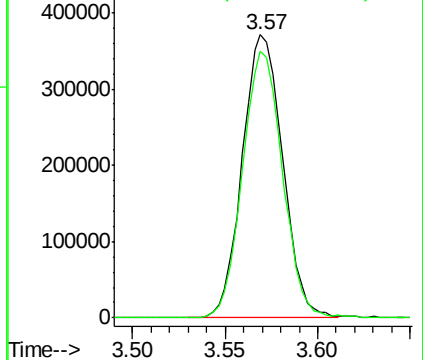
94 100

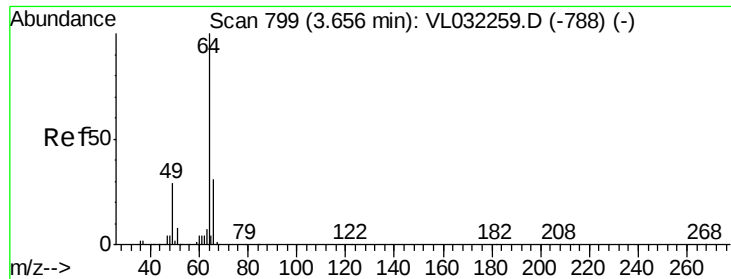
96 94.3 76.1 114.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.03 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 363174

Ion Ratio Lower Upper

64 100

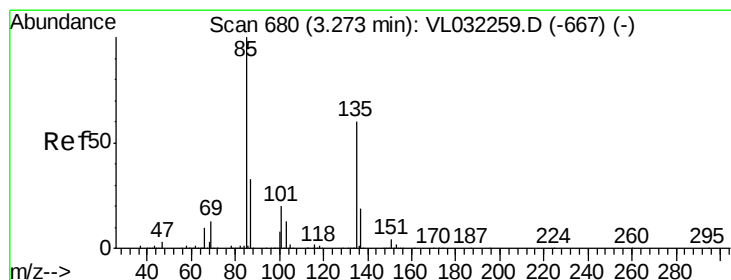
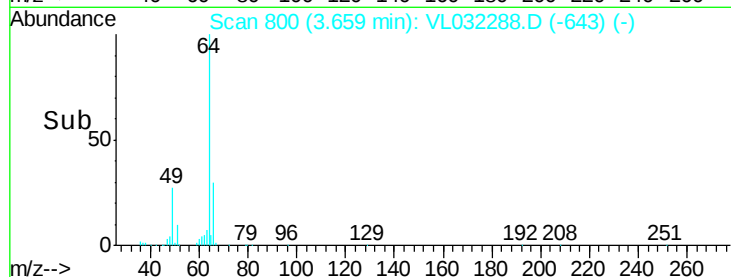
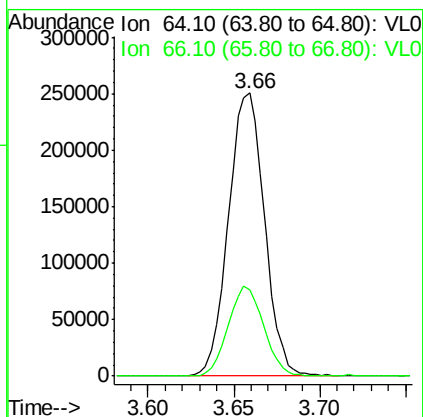
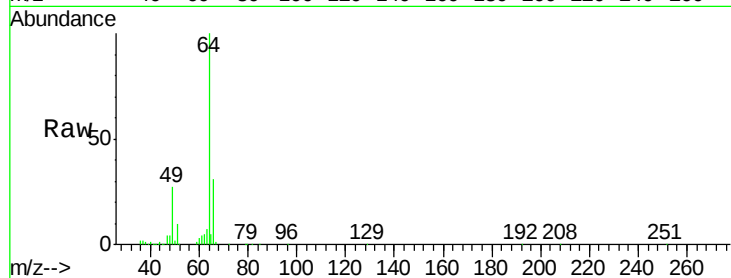
66 30.5 25.0 37.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.41 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032288.D

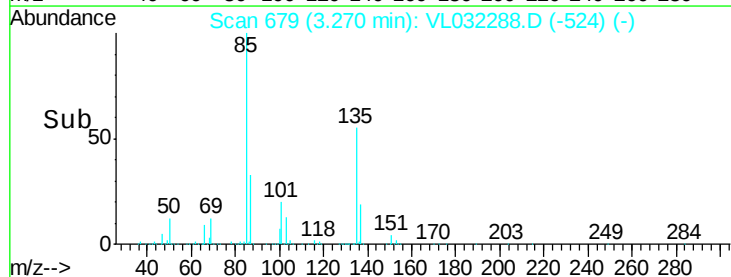
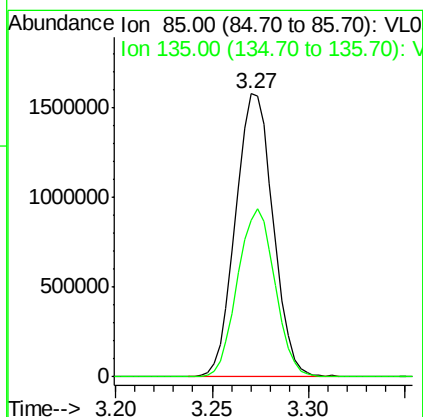
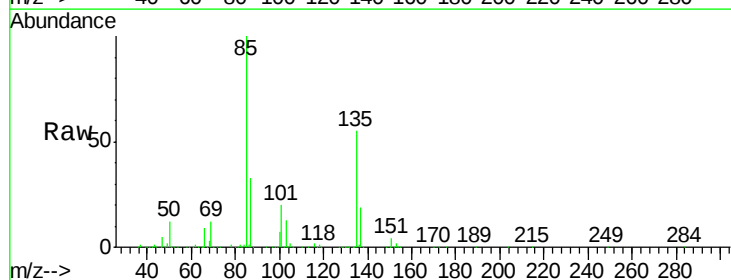
Acq: 19 Jul 2018 9:01

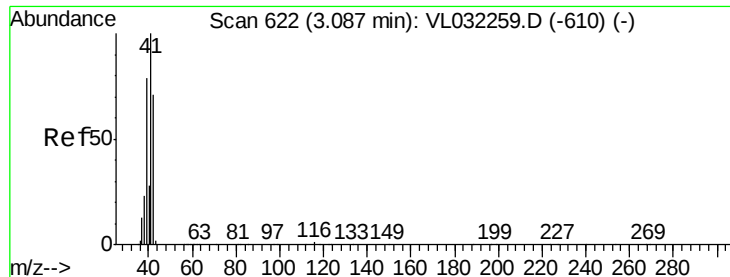
Tgt Ion: 85 Resp: 2126981

Ion Ratio Lower Upper

85 100

135 59.6 47.8 71.8





#9

Propene

Concen: 11.13 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 889470

Ion Ratio Lower Upper

41 100

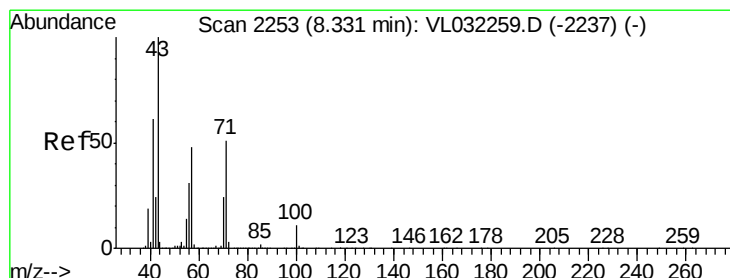
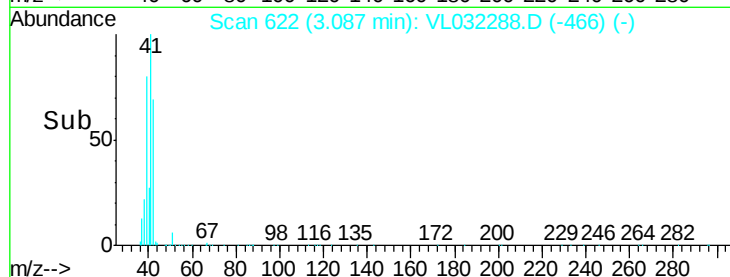
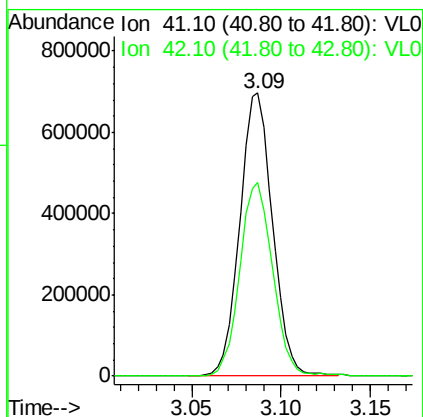
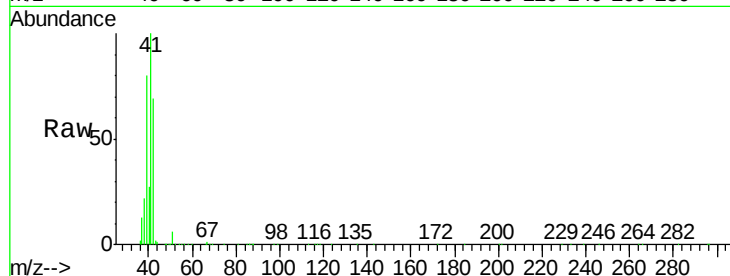
42 69.1 56.2 84.4

Manual Integrations

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#10

Heptane

Concen: 10.71 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VL032288.D

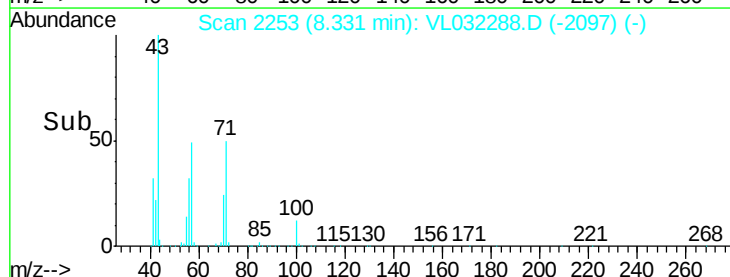
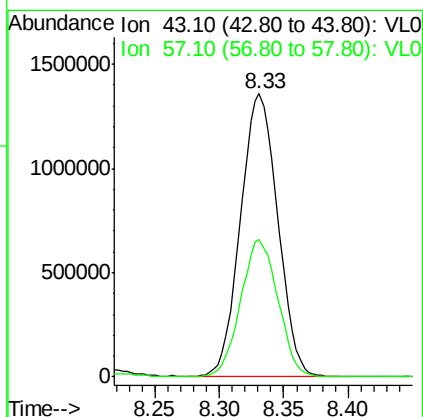
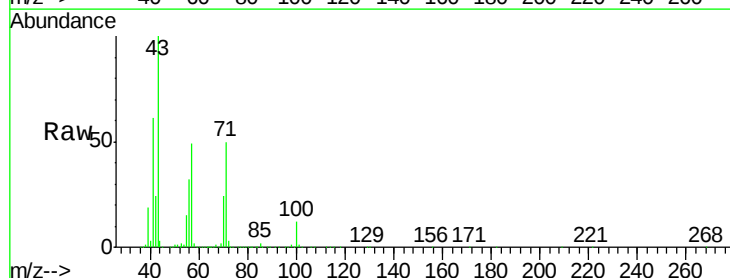
Acq: 19 Jul 2018 9:01

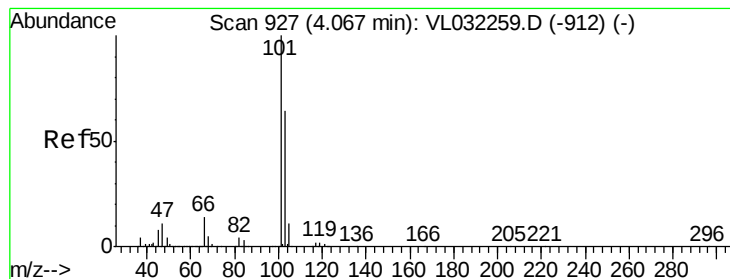
Tgt Ion: 43 Resp: 2720828

Ion Ratio Lower Upper

43 100

57 48.8 39.9 59.9





#11

Trichlorofluoromethane

Concen: 9.34 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2023936

Ion Ratio Lower Upper

101 100

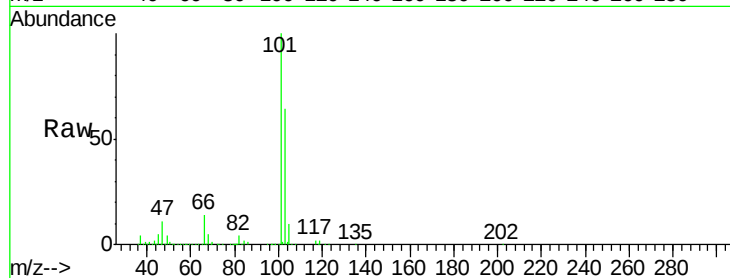
103 63.6 51.5 77.3

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

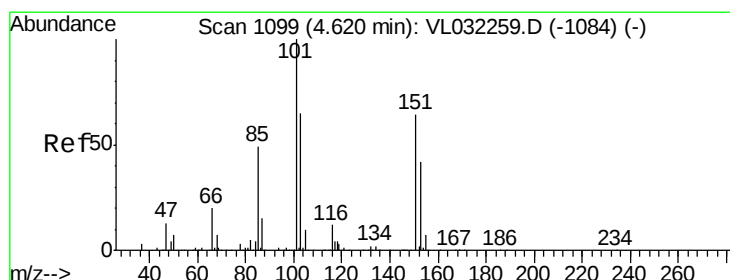
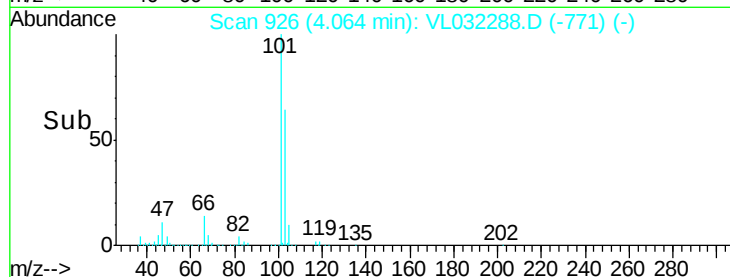
4.06

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.59 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VL032288.D

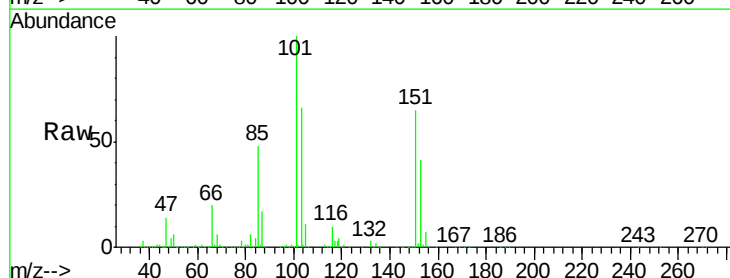
Acq: 19 Jul 2018 9:01

Tgt Ion:101 Resp: 1324797

Ion Ratio Lower Upper

101 100

151 65.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

4.62

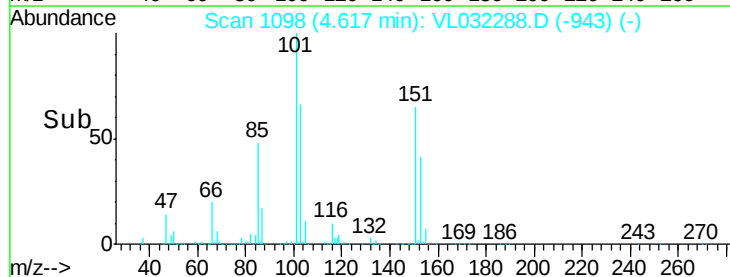
600000

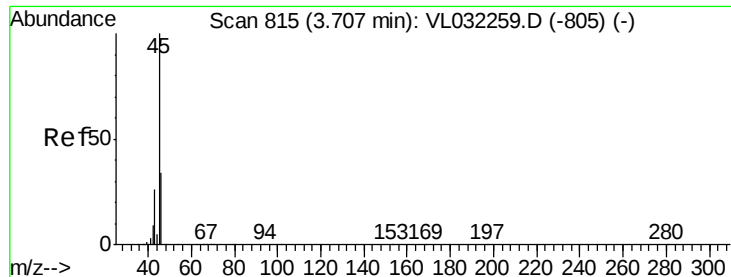
400000

200000

0

Time-->





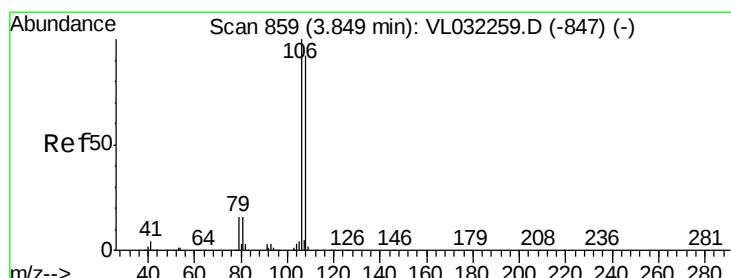
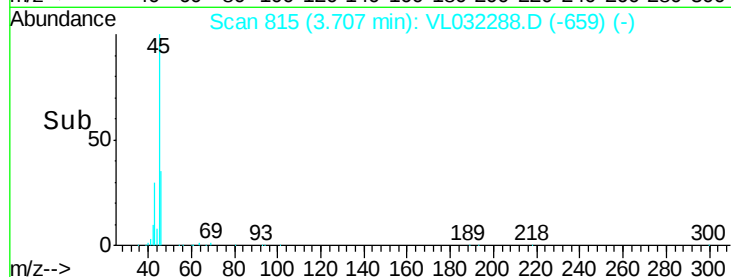
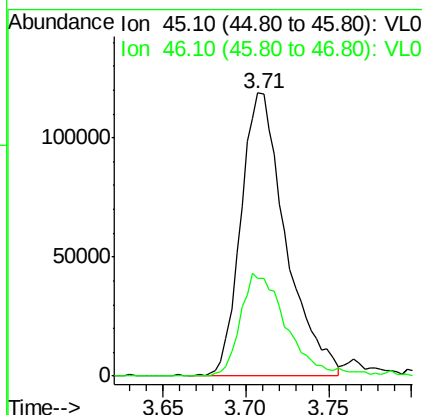
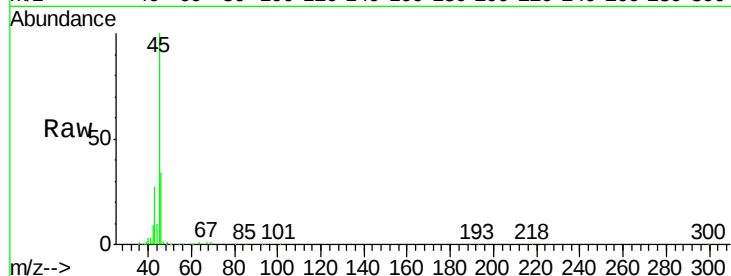
#13
Ethanol
Concen: 9.78 ppbv
RT: 3.71 min Scan# 815
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	223366
Ion Ratio	100	Lower	Upper
46	38.1	15.2	60.8

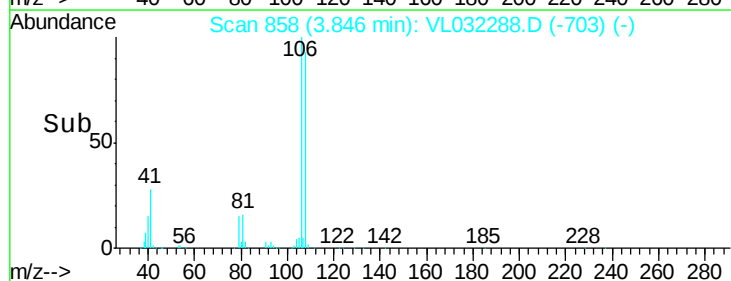
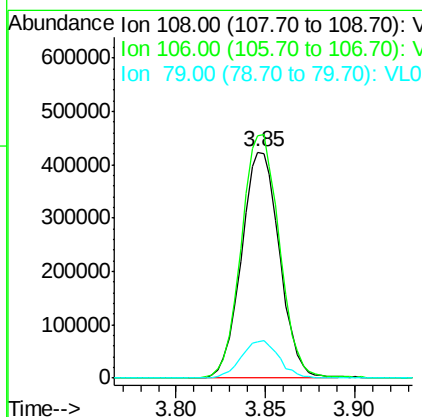
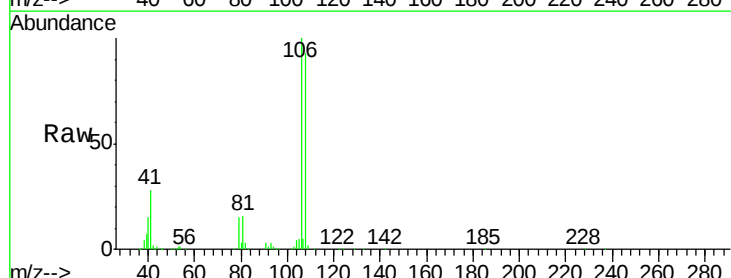
Manual Integrations
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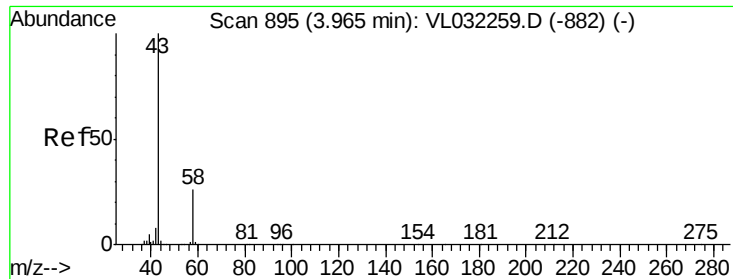
MMDadoda
7/20/2018 2:53:35 PM



#14
Bromoethene
Concen: 10.09 ppbv
RT: 3.85 min Scan# 858
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	108	Resp	628395
Ion Ratio	100	Lower	Upper
106	108.6	86.2	129.4
79	16.7	14.0	21.0





#15

Acetone

Concen: 9.32 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1589827

Ion Ratio Lower Upper

43 100

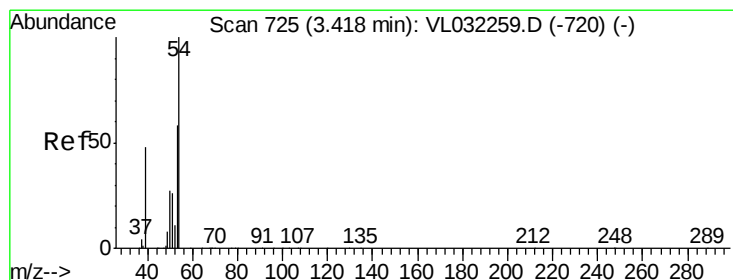
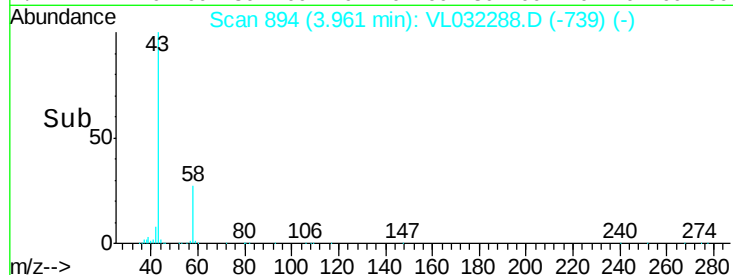
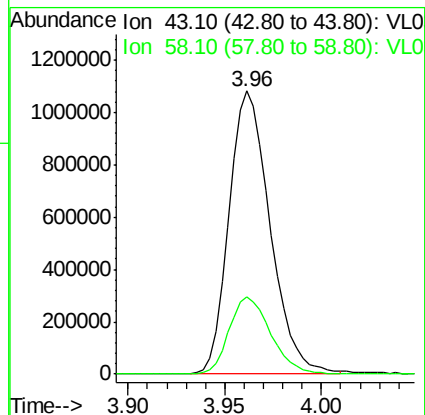
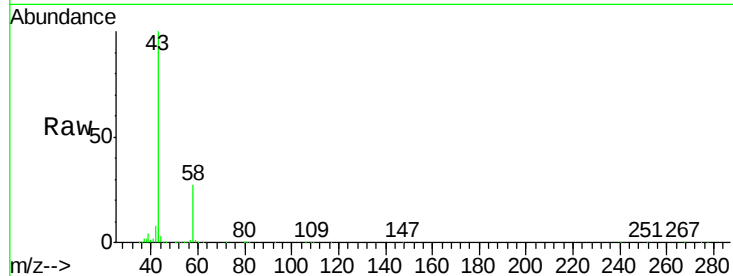
58 27.9 21.8 32.6

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MMDadoda

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#16

1,3-Butadiene

Concen: 10.22 ppbv

RT: 3.41 min Scan# 724

Delta R.T. -0.00 min

Lab File: VL032288.D

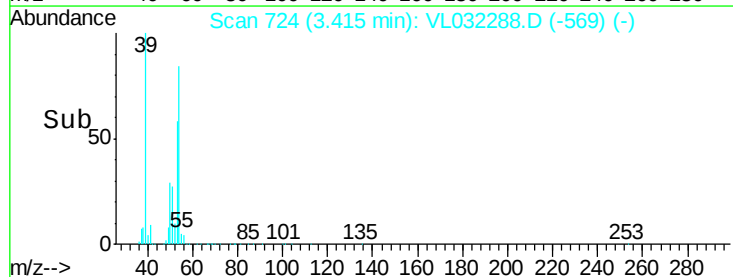
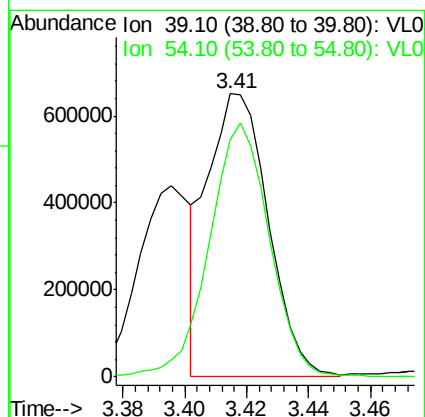
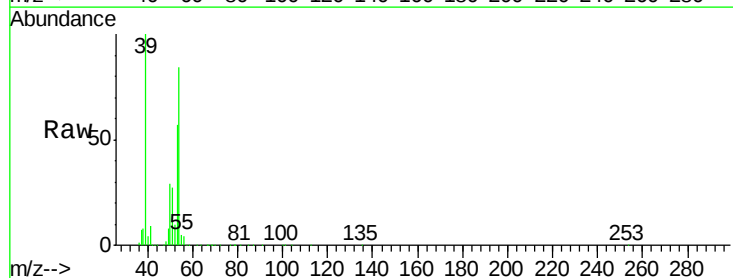
Acq: 19 Jul 2018 9:01

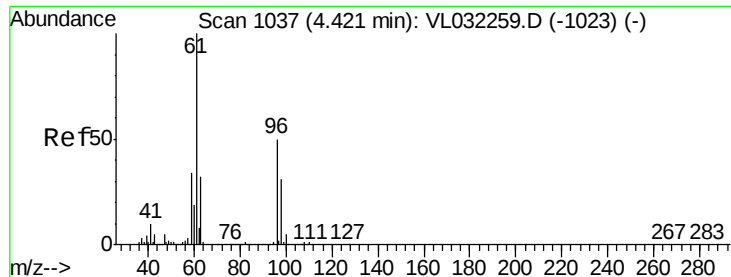
Tgt Ion: 39 Resp: 887450

Ion Ratio Lower Upper

39 100

54 89.4 70.6 105.8





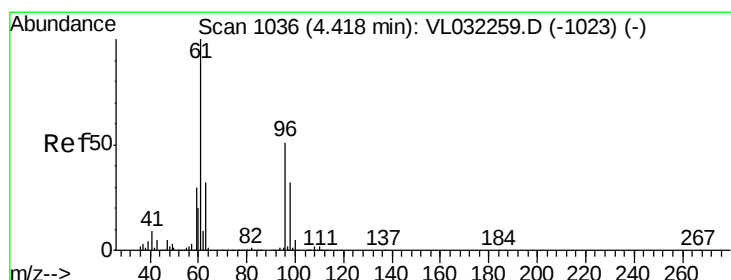
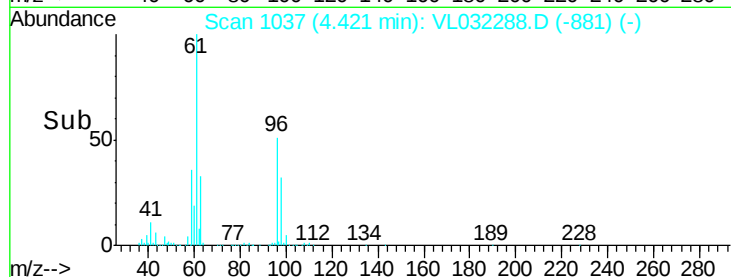
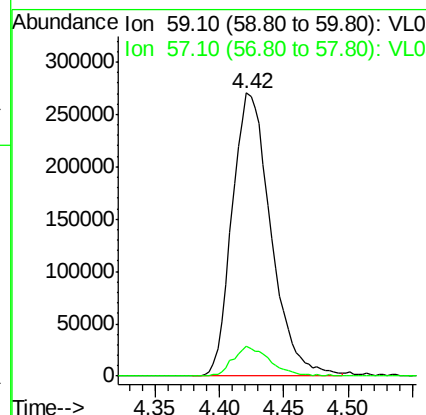
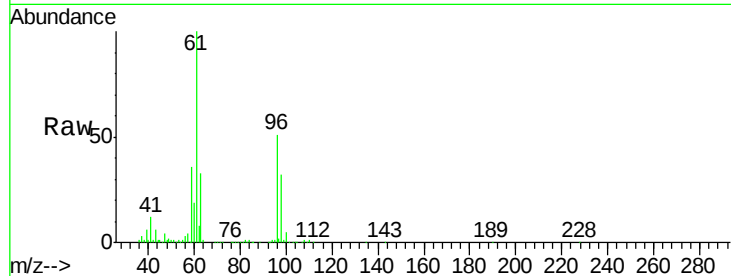
#17
tert-Butyl alcohol
Concen: 10.49 ppbv
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Ratio	100	Resp	564404
Ion	59	100		Lower	Upper
	57	10.2		8.2	12.4

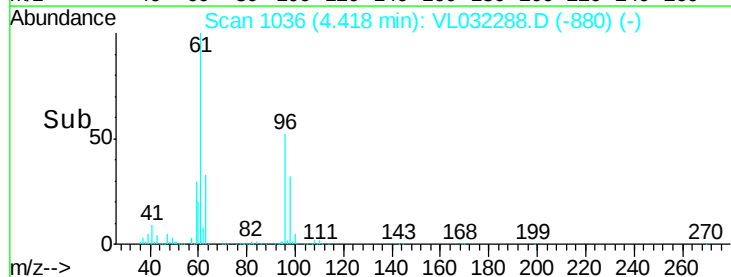
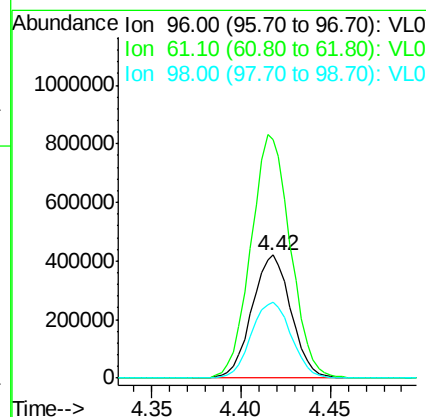
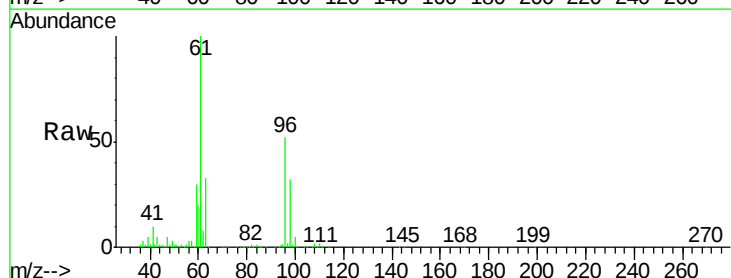
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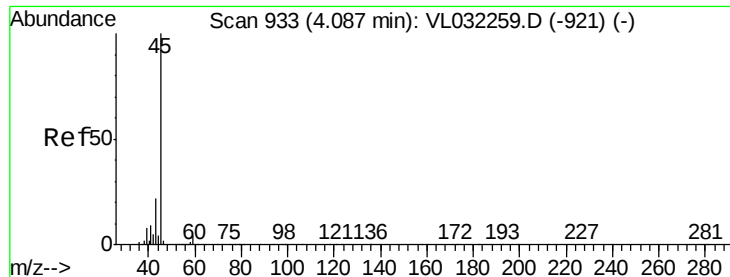
MMDadoda
7/20/2018 2:53:35 PM



#18
1,1-Dichloroethene
Concen: 9.98 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	96	Ratio	100	Resp	644178
Ion	96	100		Lower	Upper
	61	194.0		157.2	235.8
	98	61.9		50.1	75.1





#19

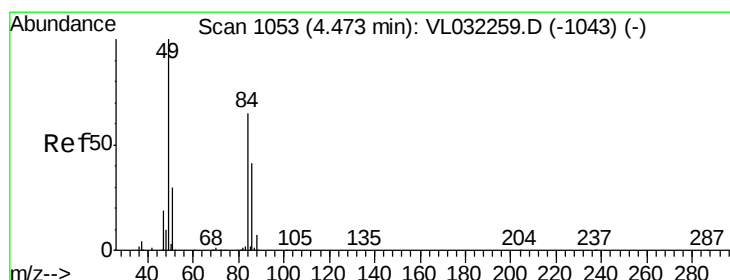
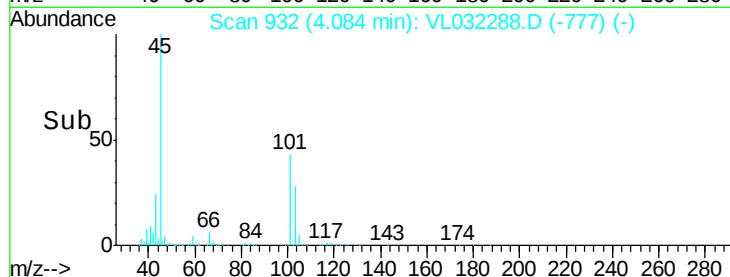
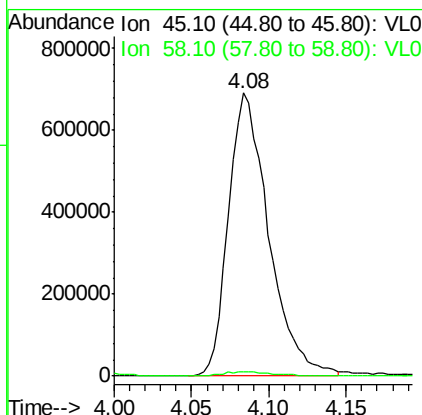
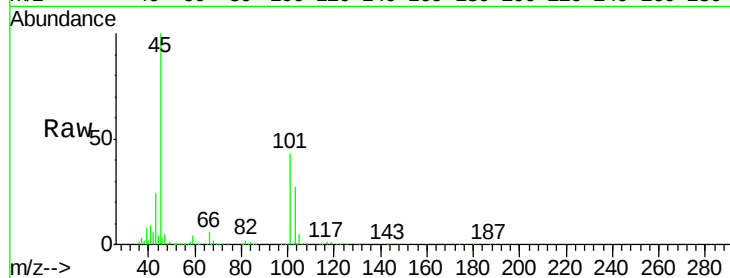
Isopropyl Alcohol
 Concen: 10.79 ppbv
 RT: 4.08 min Scan# 932
 Delta R.T. -0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	45	Resp	1244994
Ion Ratio	100	Lower	Upper
58	1.9	1.5	2.3

Manual Integrations
 APPROVED

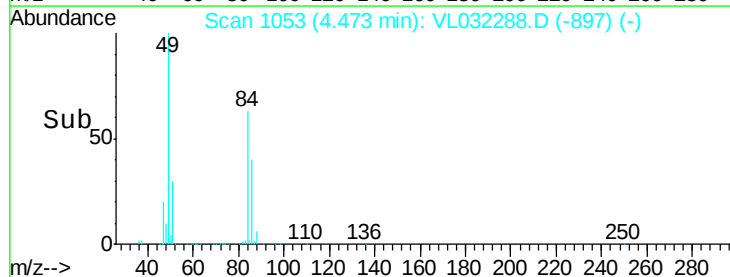
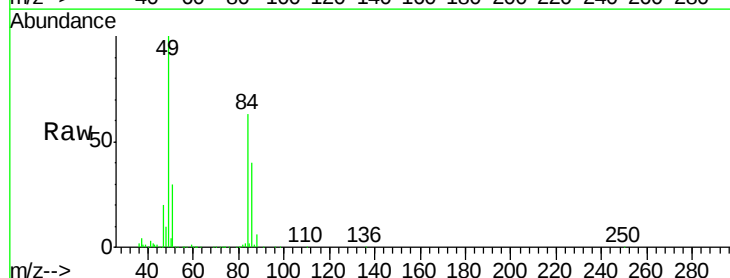
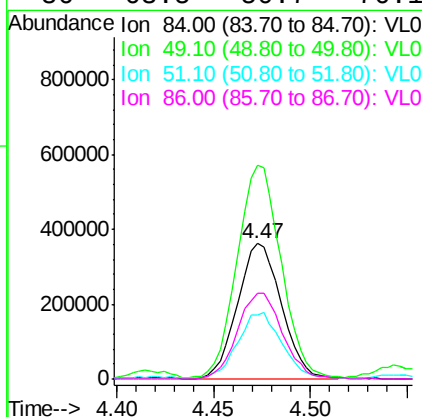
MMDadoda
 7/20/2018 2:53:35 PM

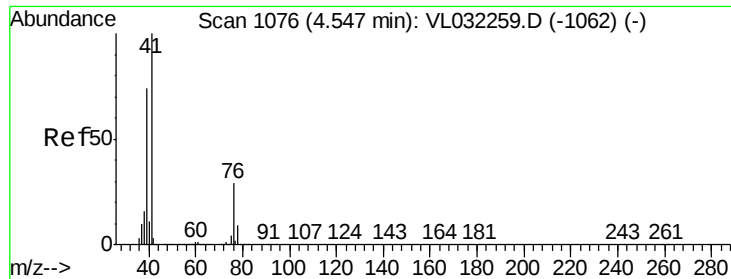


#20

Methylene Chloride
 Concen: 8.66 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	84	Resp	568485
Ion Ratio	100	Lower	Upper
49	157.3	122.4	183.6
51	46.4	36.8	55.2
86	63.5	50.7	76.1





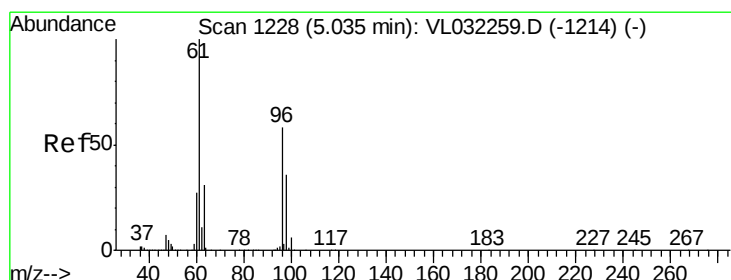
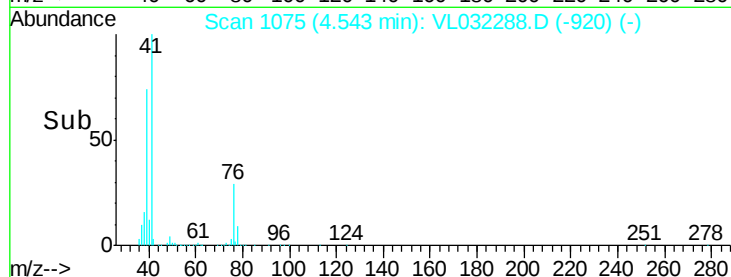
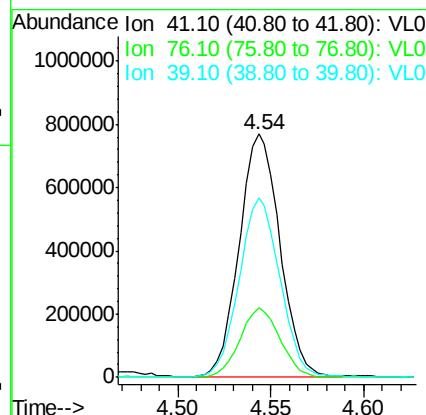
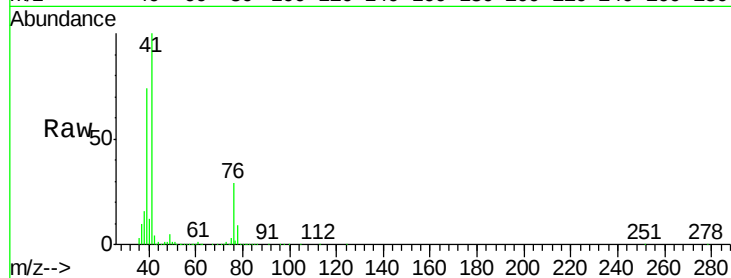
#21
Allvl Chloride
Concen: 10.41 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.3	23.0	34.6
39	74.2	60.2	90.4

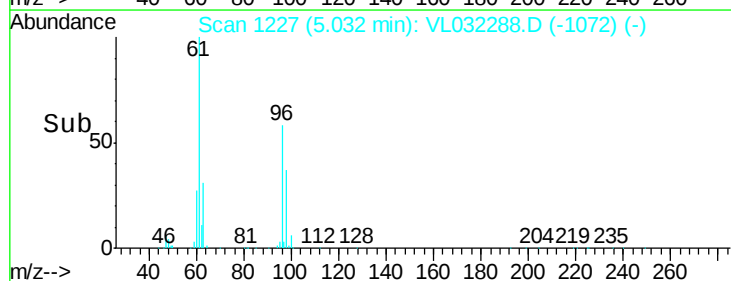
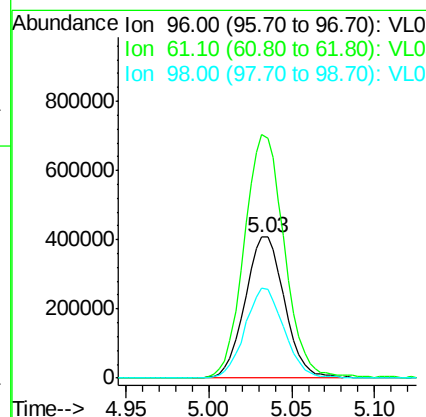
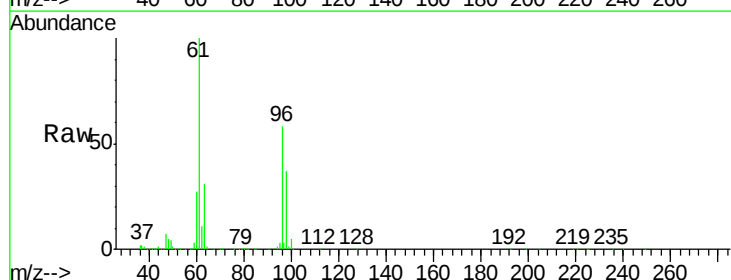
Manual Integrations
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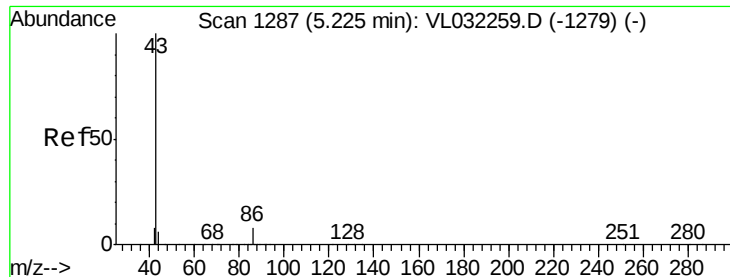
MMDadoda
7/20/2018 2:53:35 PM



#22
trans-1,2-Dichloroethene
Concen: 10.09 ppbv
RT: 5.03 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.6	137.4	206.0
98	64.3	49.6	74.4





#23

Vinyl Acetate

Concen: 10.86 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3321762

Ion Ratio Lower Upper

43 100

86 6.9 5.9 8.9

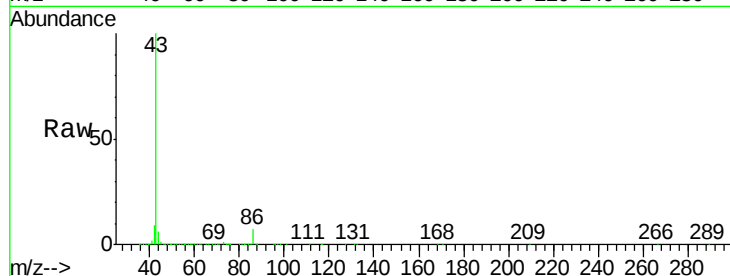
42 9.0 7.3 10.9

44 5.7 4.4 6.6

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MMDadoda

7/20/2018 2:53:35 PM

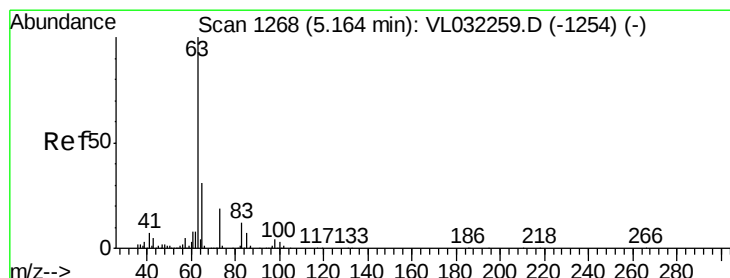
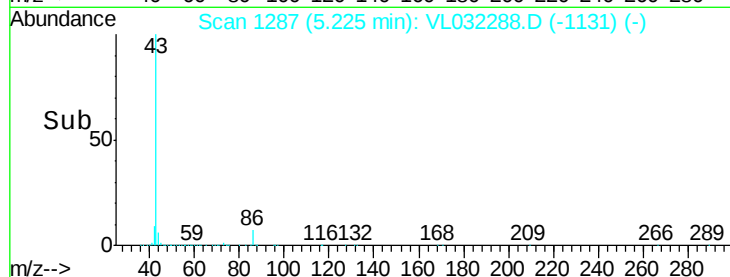
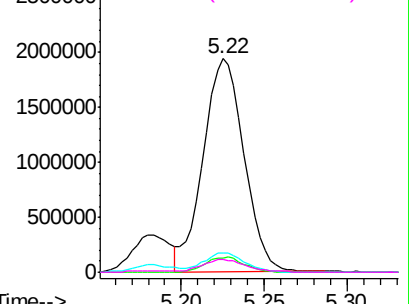


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.92 ppbv

RT: 5.16 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

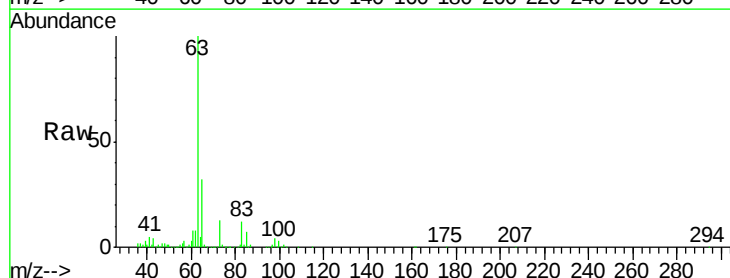
Tgt Ion: 63 Resp: 2200501

Ion Ratio Lower Upper

63 100

98 3.8 2.1 6.3

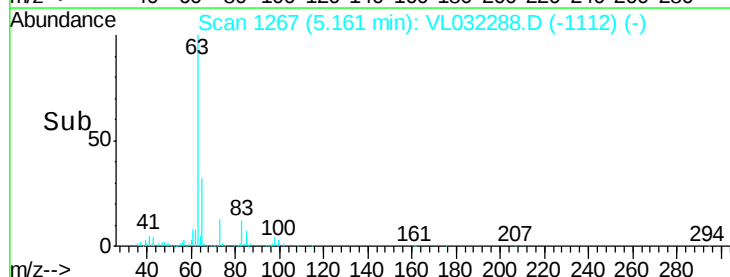
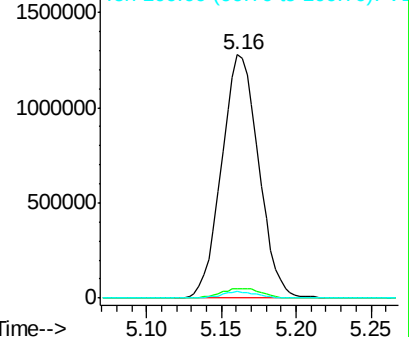
100 2.9 1.3 3.9

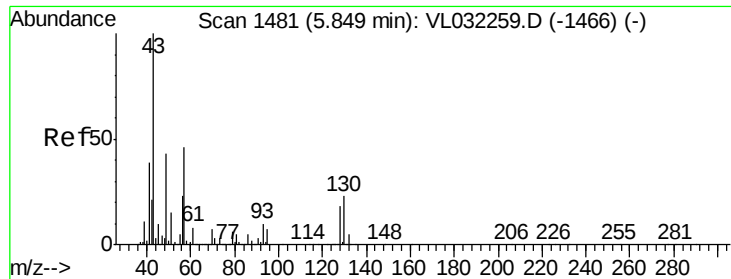


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





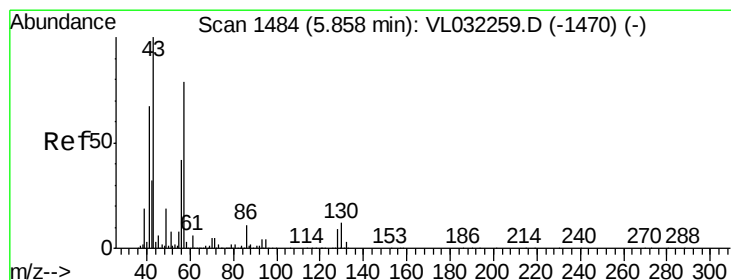
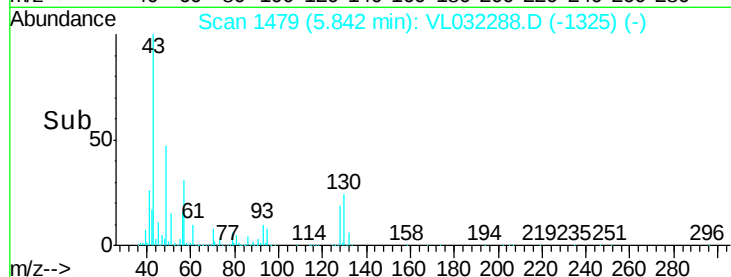
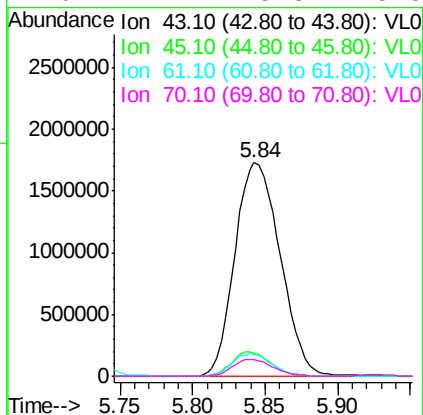
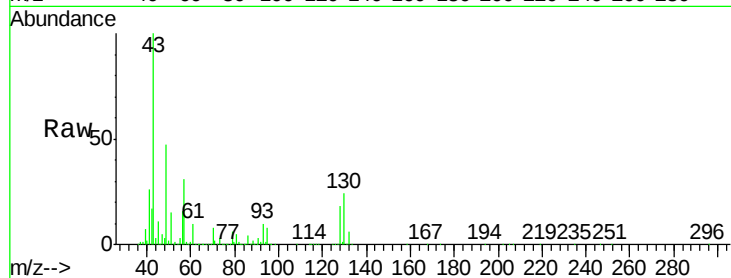
#25
Ethyl Acetate
Concen: 10.08 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.9	11.9	
61	9.3	7.6	11.4	
70	7.2	5.8	8.8	

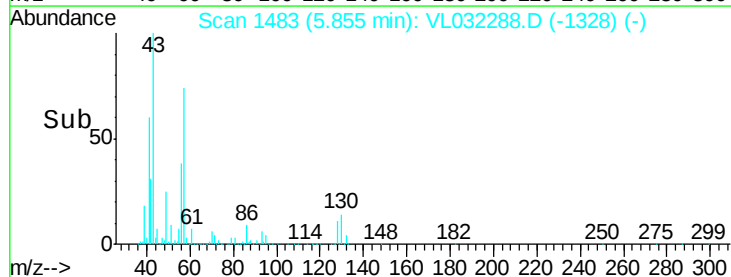
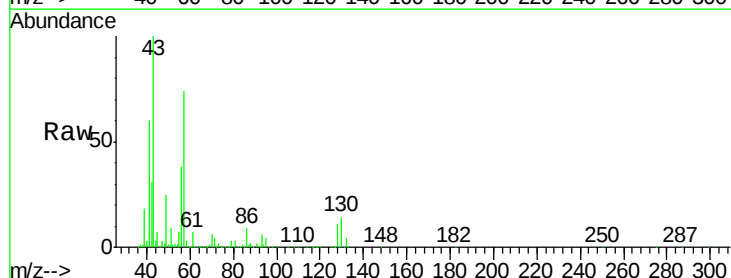
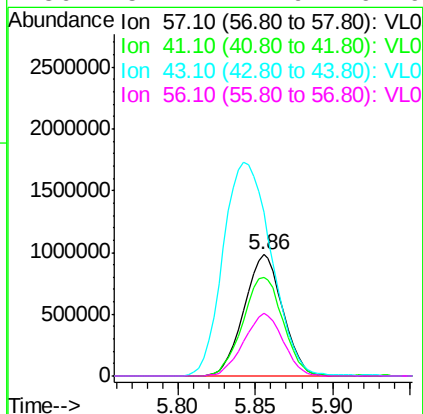
Manual Integrations
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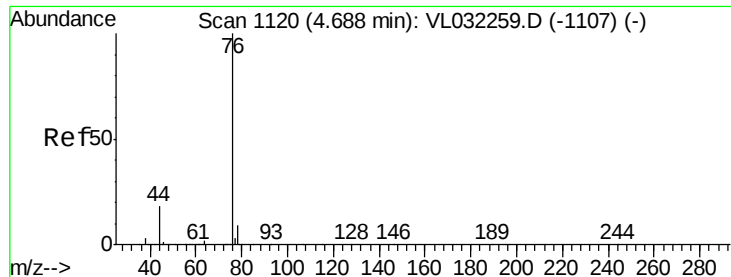
MMDadoda
7/20/2018 2:53:35 PM



#26
Hexane
Concen: 10.00 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	85.0	67.9	101.9	
43	220.7	175.9	263.9	
56	52.4	41.9	62.9	





#27

Carbon Disulfide

Concen: 10.99 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1660662

Ion Ratio Lower Upper

76 100

44 17.9 14.3 21.5

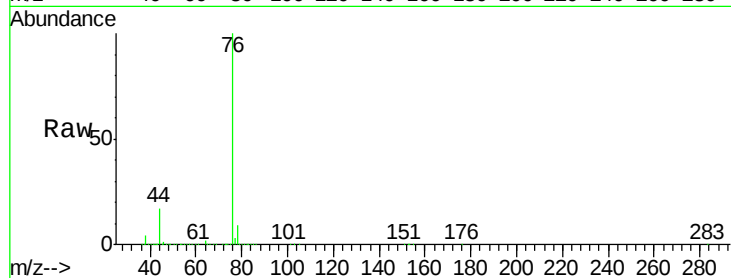
78 9.3 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

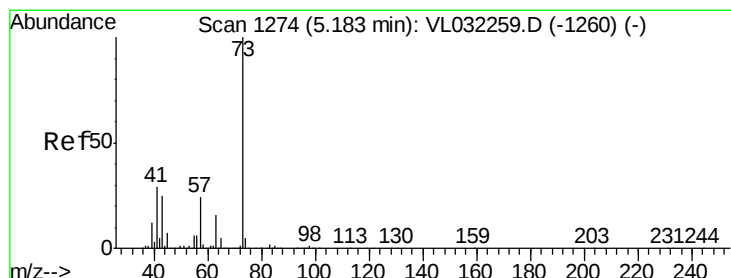
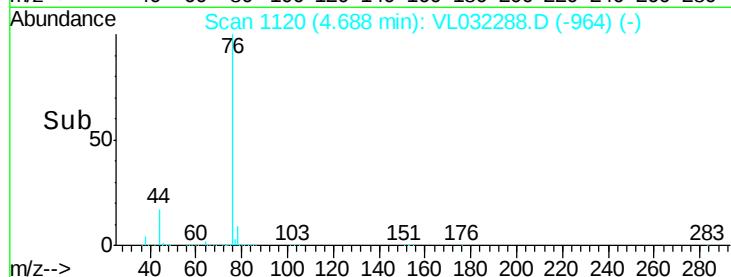
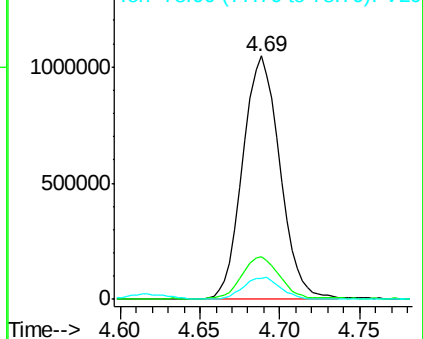
7/20/2018 2:53:35 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.20 ppbv

RT: 5.18 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VL032288.D

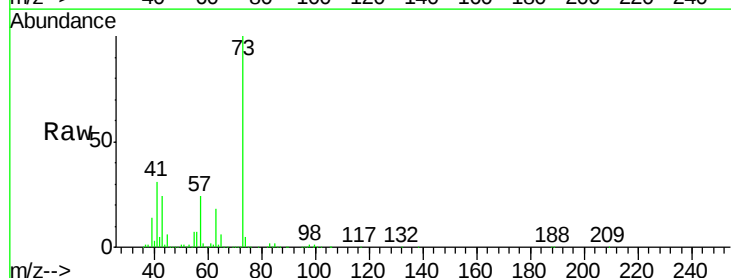
Acq: 19 Jul 2018 9:01

Tgt Ion: 73 Resp: 2580763

Ion Ratio Lower Upper

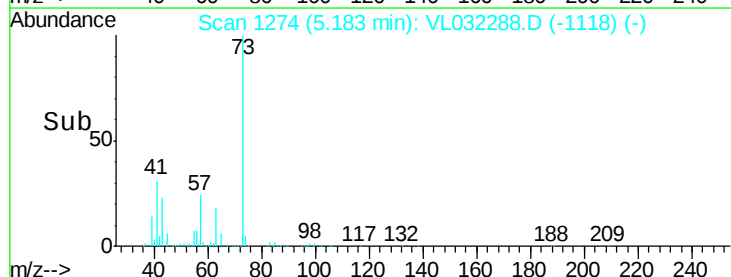
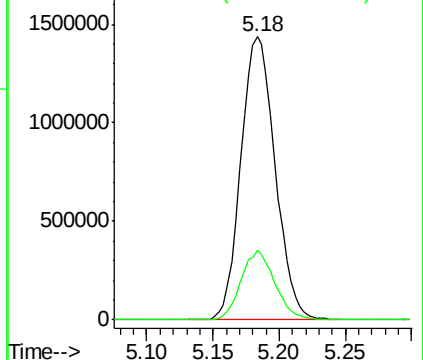
73 100

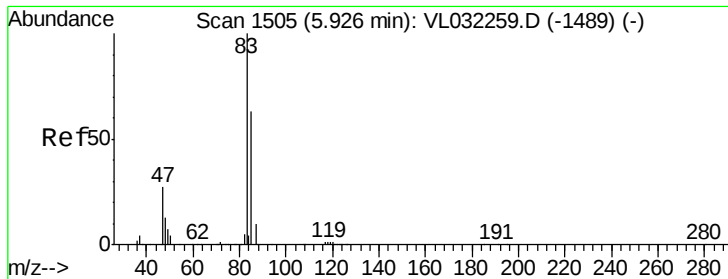
57 24.2 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





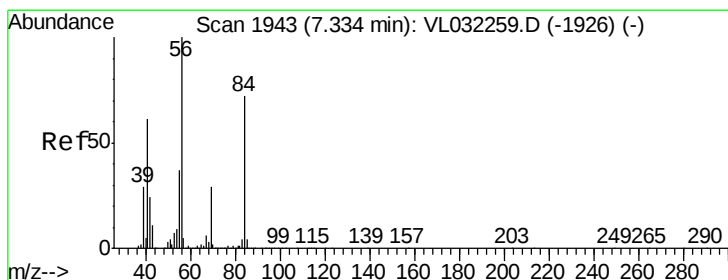
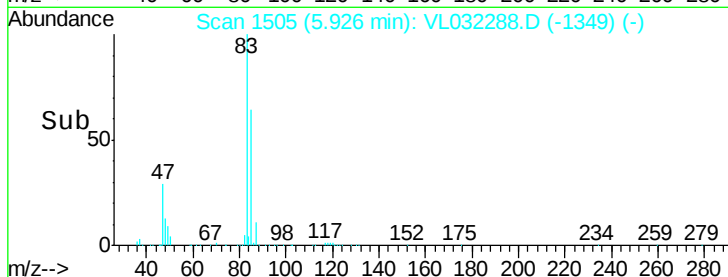
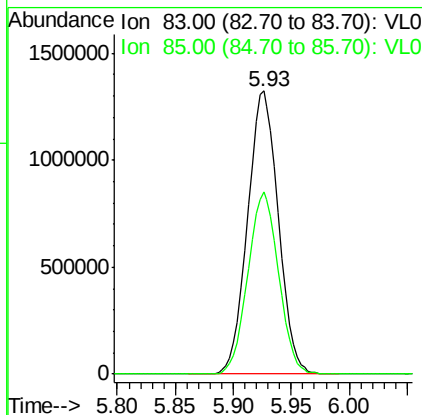
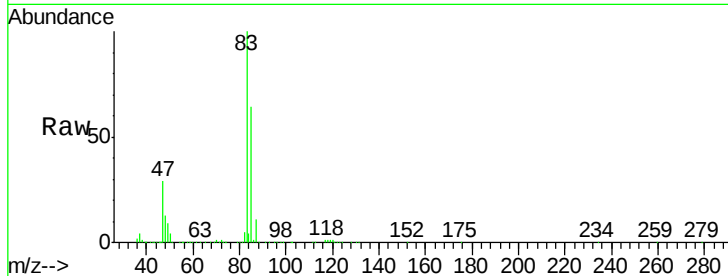
#29
Chloroform
Concen: 9.75 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2451992
Ion Ratio Lower Upper
83 100
85 64.2 50.7 76.1

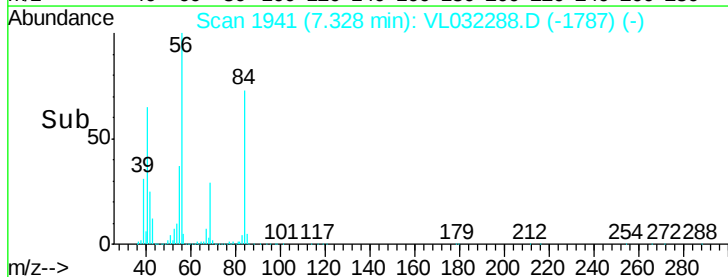
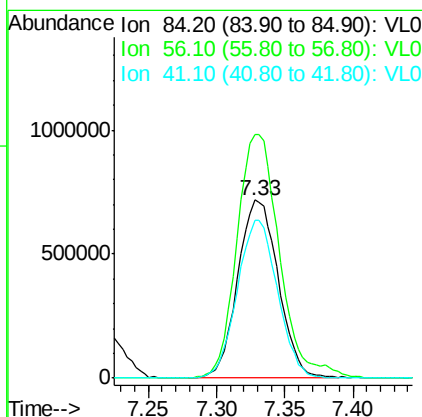
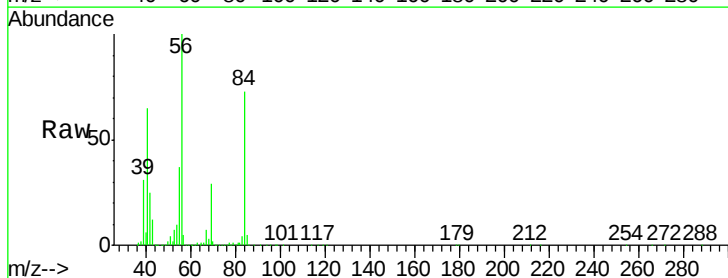
Manual Integrations
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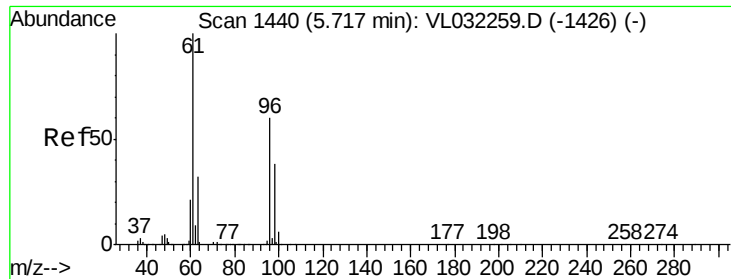
MMDadoda
7/20/2018 2:53:35 PM



#30
Cyclohexane
Concen: 10.35 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.01 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion: 84 Resp: 1480982
Ion Ratio Lower Upper
84 100
56 144.4 115.6 173.4
41 88.3 68.7 103.1





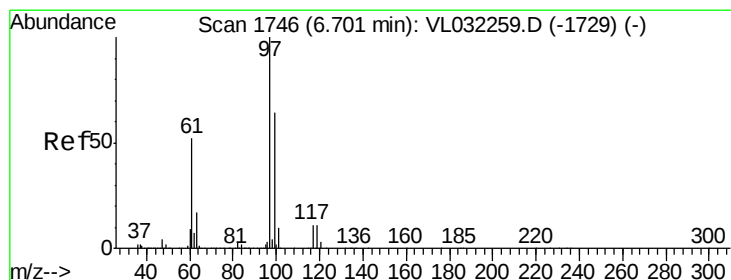
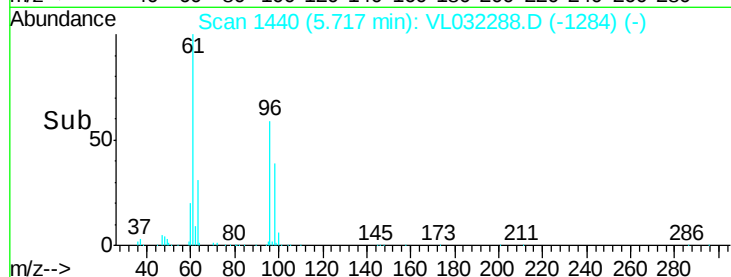
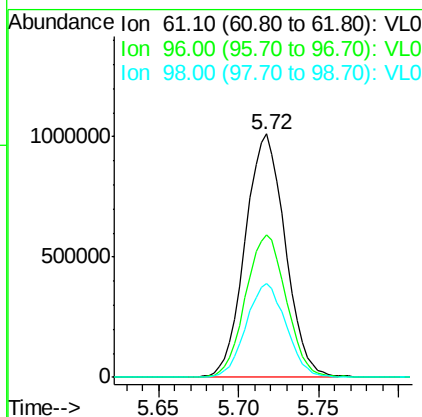
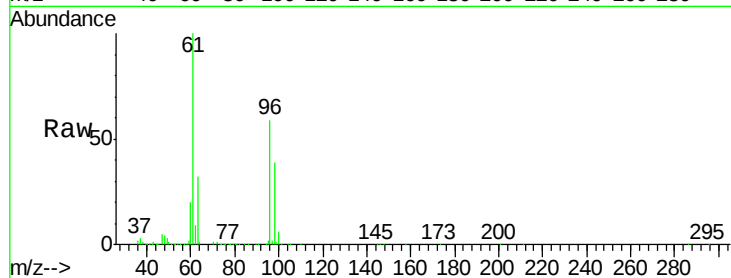
#31
 cis-1,2-Dichloroethene
 Concen: 10.57 ppbv
 RT: 5.72 min Scan# 1440
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.5	47.9	71.9
98	38.7	30.5	45.7

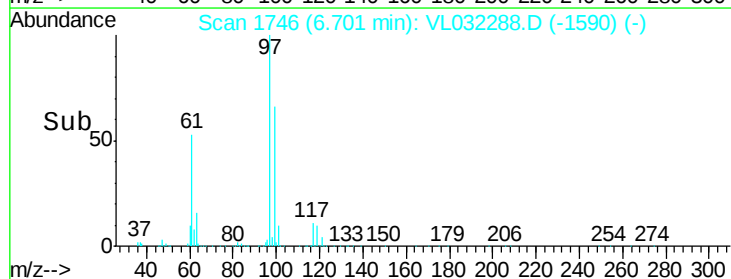
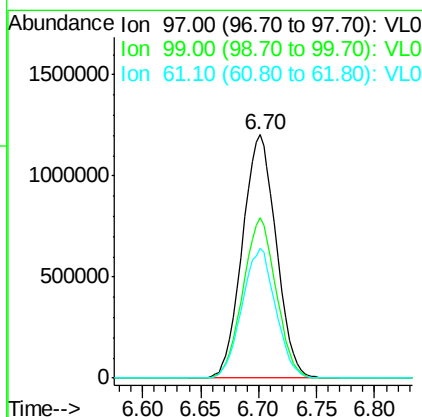
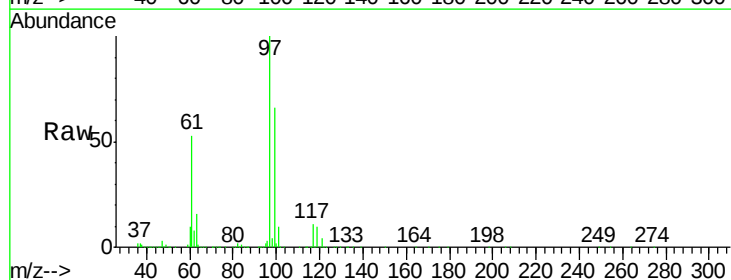
Manual Integrations
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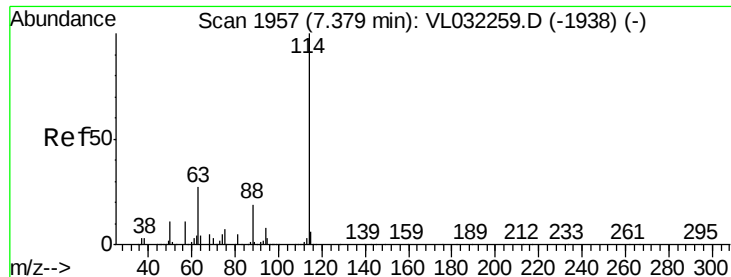
MMDadoda
 7/20/2018 2:53:35 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.59 ppbv
 RT: 6.70 min Scan# 1746
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.0	76.6
61	53.2	41.2	61.8





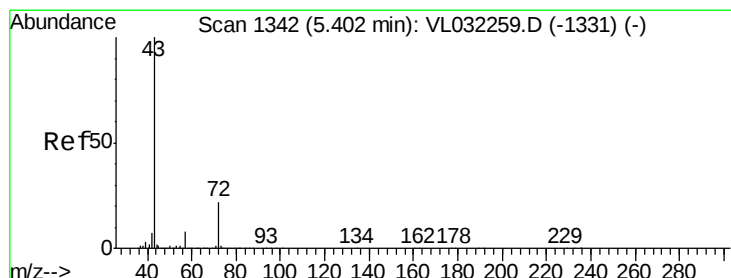
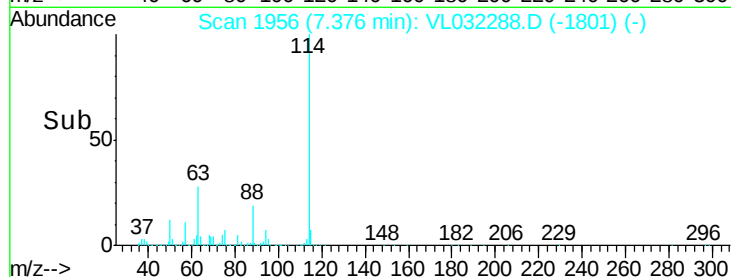
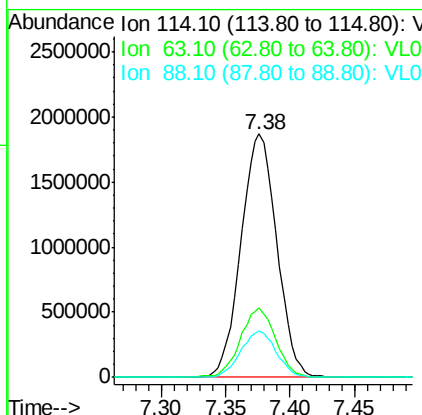
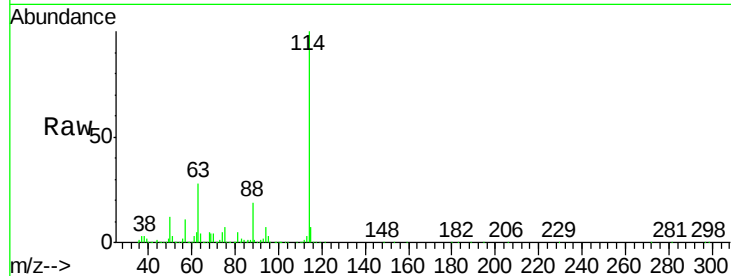
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.6	33.8
88	19.0	15.2	22.8

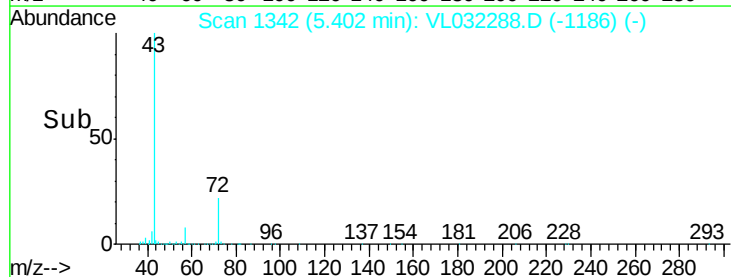
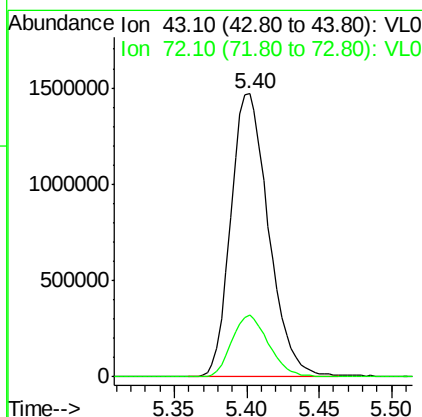
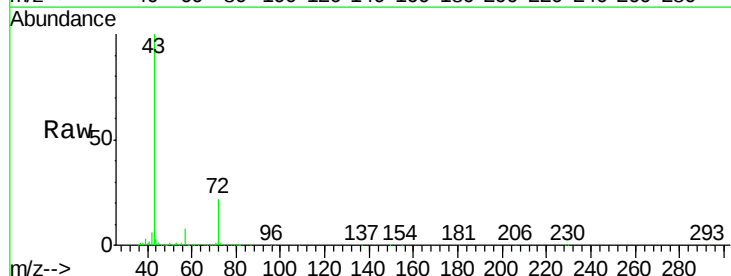
Manual Integrations
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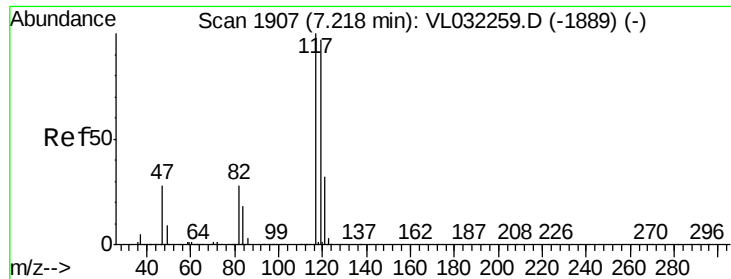
MMDadoda
 7/20/2018 2:53:35 PM



#34
 2-Butanone
 Concen: 10.70 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.7	26.5





#35

Carbon Tetrachloride

Concen: 9.48 ppbv

RT: 7.22 min Scan# 1907

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2351164

Ion Ratio Lower Upper

117 100

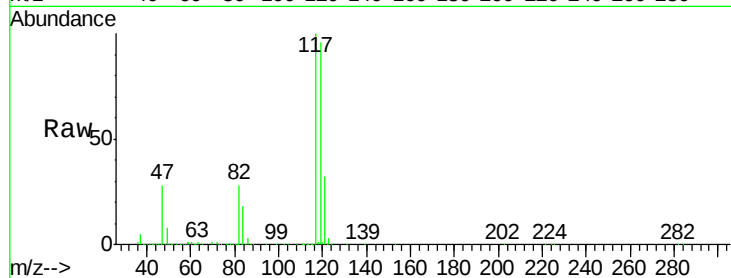
119 96.4 77.4 116.0

121 31.7 25.4 38.2

Manual Integrations
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MMDadoda

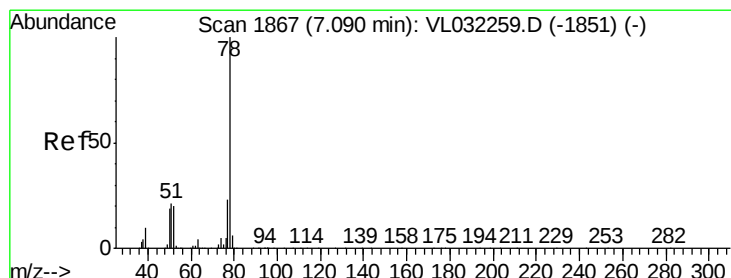
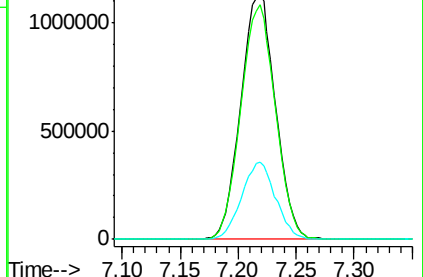
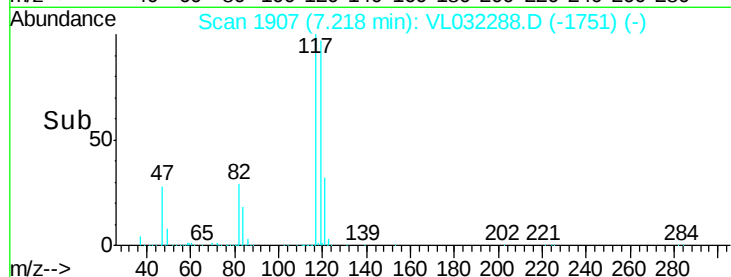
7/20/2018 2:53:35 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.93 ppbv

RT: 7.09 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

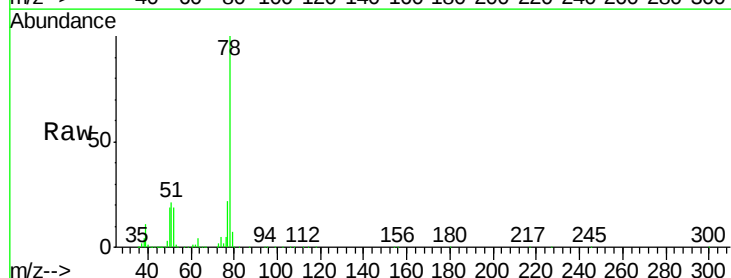
Tgt Ion: 78 Resp: 3524991

Ion Ratio Lower Upper

78 100

77 22.4 18.6 27.8

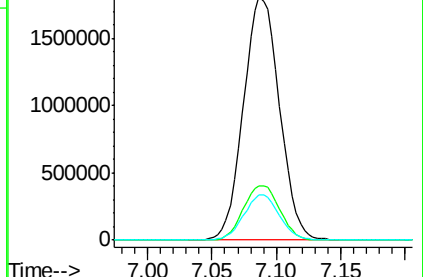
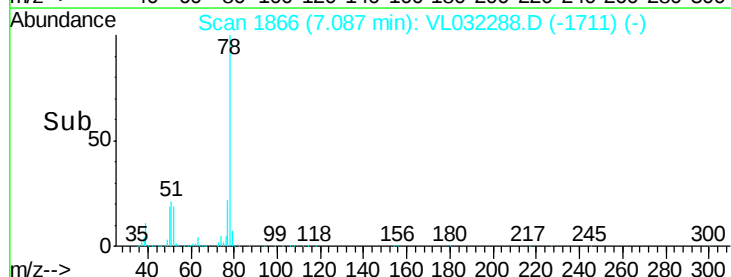
50 18.6 15.0 22.6

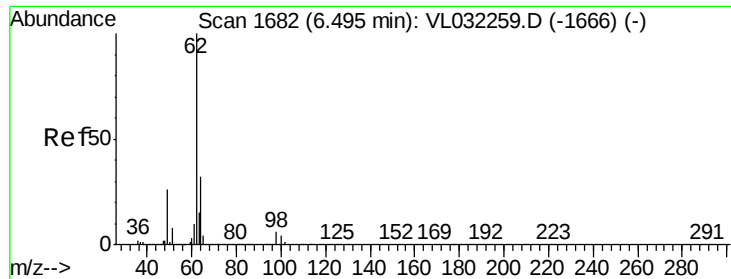


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





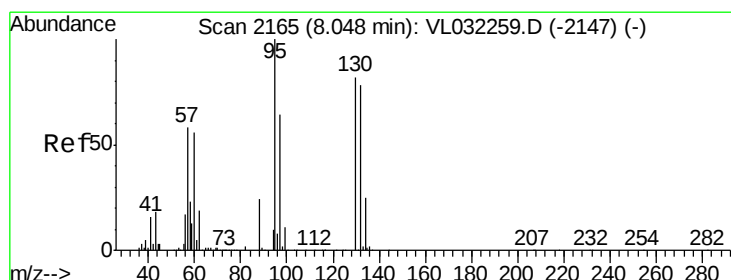
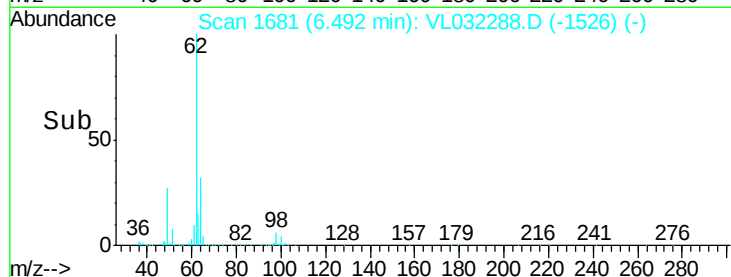
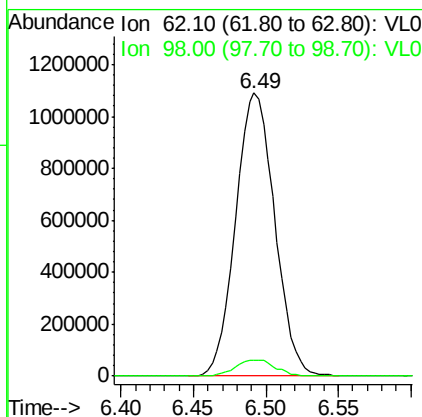
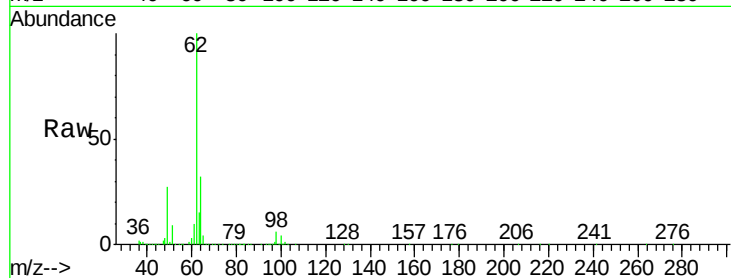
#37
1,2-Dichloroethane
Concen: 9.75 ppbv
RT: 6.49 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 2044471
Ion Ratio Lower Upper
62 100
98 5.9 4.9 7.3

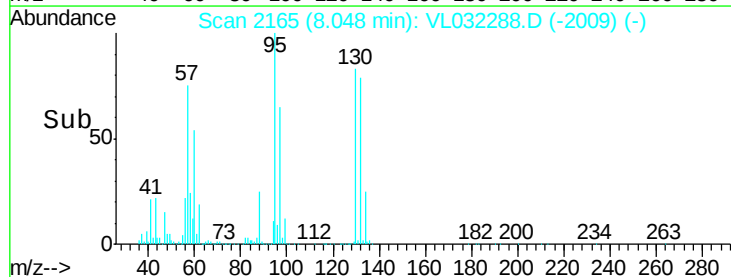
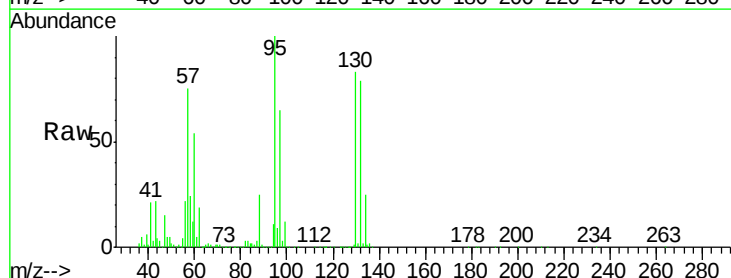
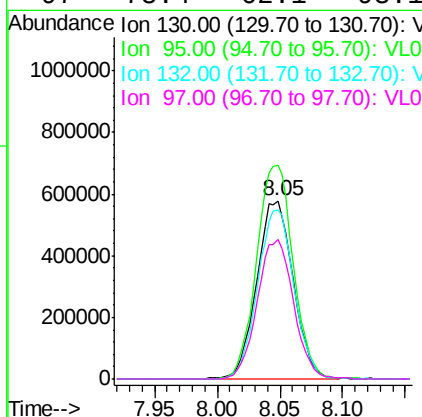
Manual Integrations
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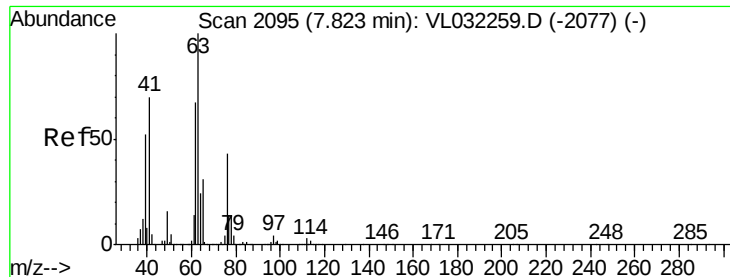
MMDadoda
7/20/2018 2:53:35 PM



#38
Trichloroethene
Concen: 9.95 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion:130 Resp: 1168279
Ion Ratio Lower Upper
130 100
95 120.0 97.1 145.7
132 95.1 75.6 113.4
97 78.4 62.1 93.1





#39

1,2-Dichloropropane

Concen: 10.18 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1431162

Ion Ratio Lower Upper

63 100

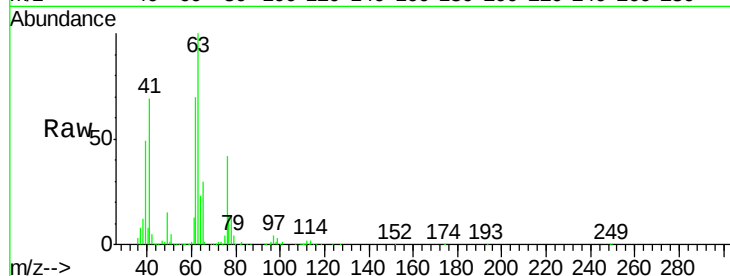
41 68.8 55.8 83.6

62 69.7 53.8 80.8

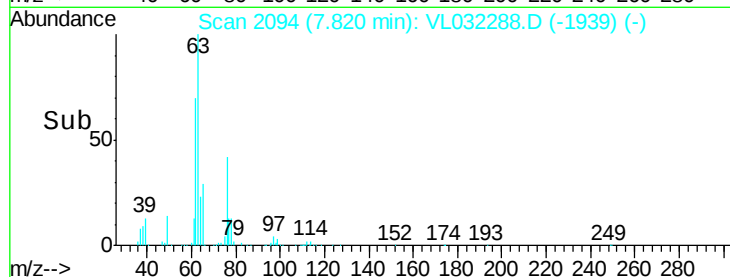
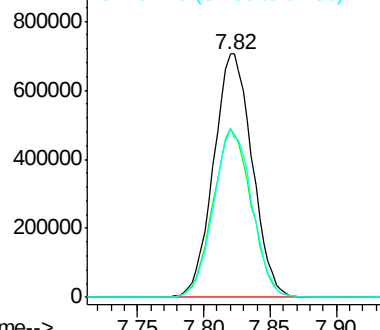
Manual Integrations
APPROVED

MMDadoda

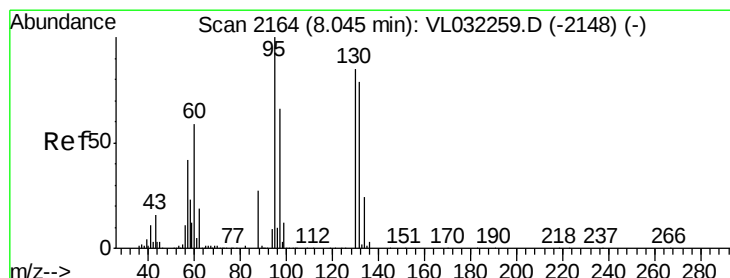
7/20/2018 2:53:35 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



Time-->



#40

1,4-Dioxane

Concen: 11.56 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Tgt Ion: 88 Resp: 480099

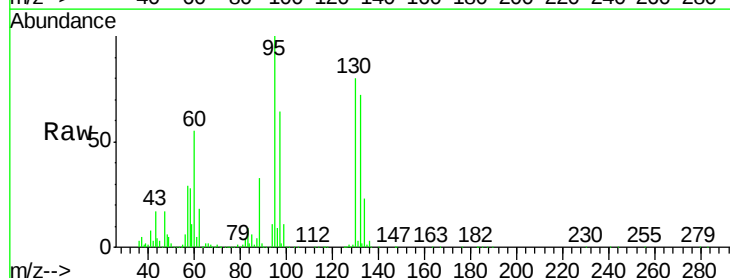
Ion Ratio Lower Upper

88 100

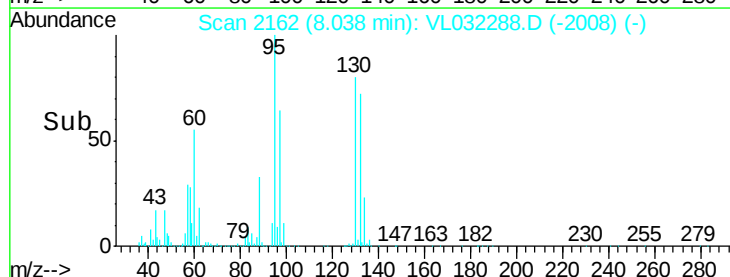
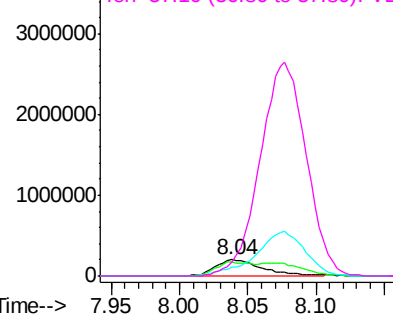
58 142.2 60.9 91.3#

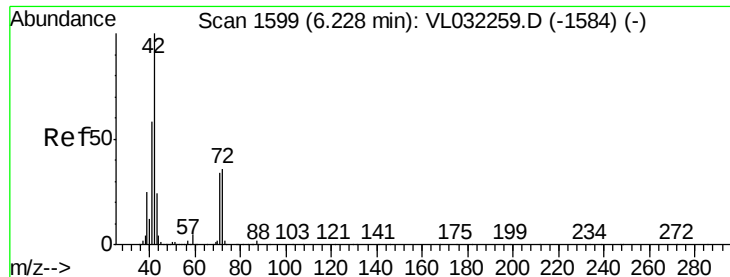
43 289.5 0.0 0.0#

57 1300.3 0.0 0.0#



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.08 ppbv

RT: 6.22 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 42 Resp: 1599753

Ion Ratio Lower Upper

42 100

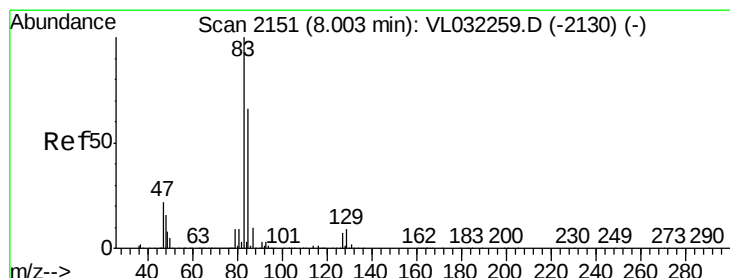
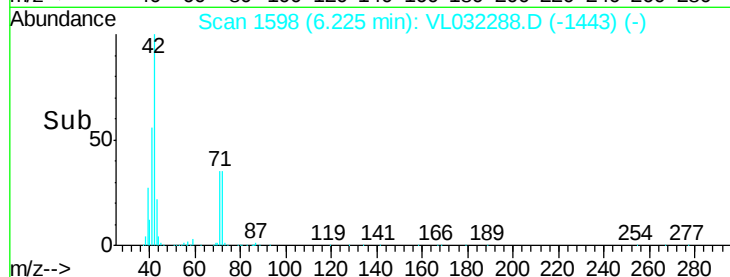
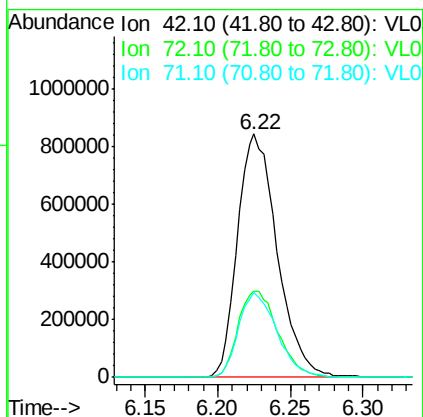
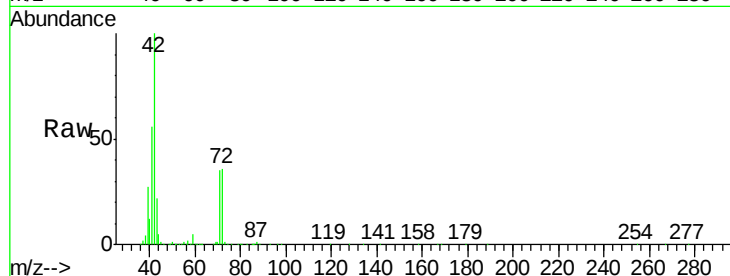
72 35.8 29.4 44.0

71 34.2 28.2 42.4

Manual Integrations
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MMDadoda

7/20/2018 2:53:35 PM



#42

Bromodichloromethane

Concen: 10.07 ppbv

RT: 8.00 min Scan# 2151

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

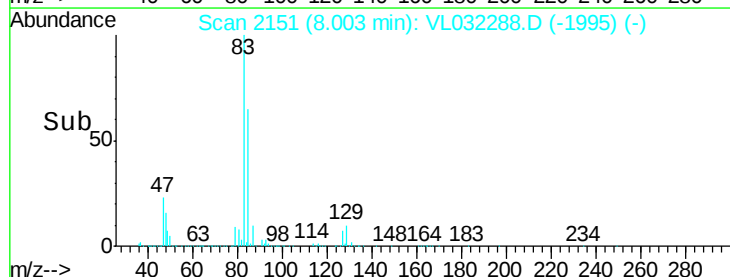
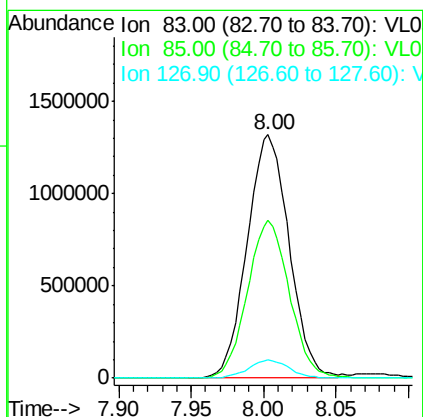
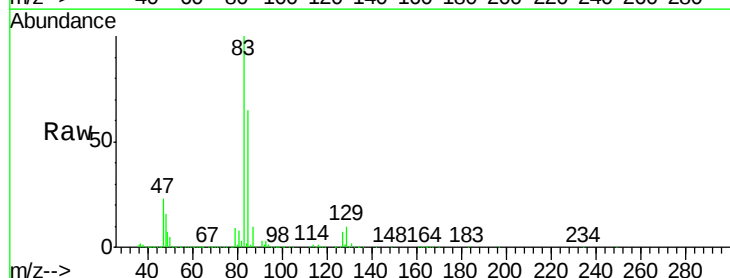
Tgt Ion: 83 Resp: 2659268

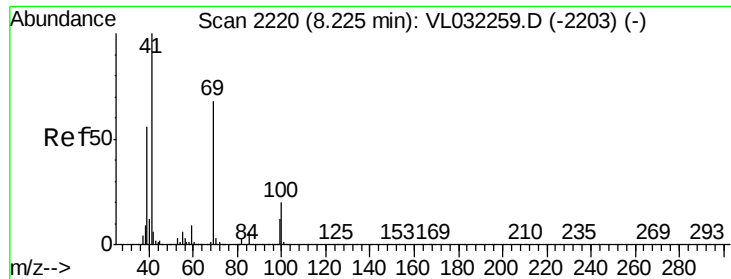
Ion Ratio Lower Upper

83 100

85 64.8 53.0 79.4

127 7.3 5.7 8.5





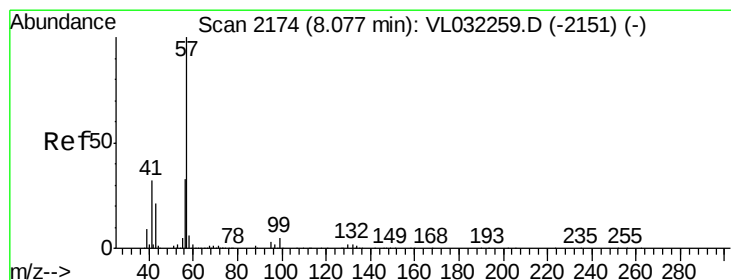
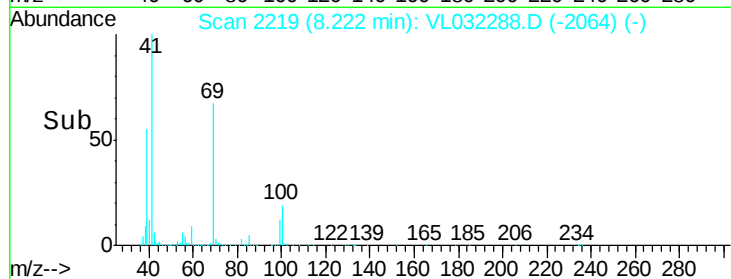
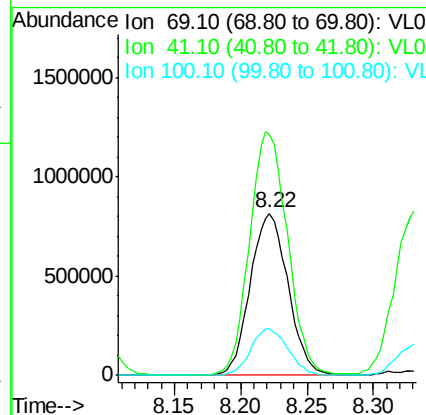
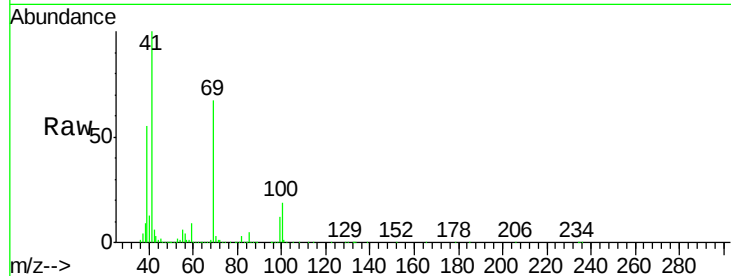
#43
Methvl Methacrilate
Concen: 11.12 ppbv
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1618364
Ion Ratio Lower Upper
69 100
41 150.8 118.6 177.8
100 28.8 23.3 34.9

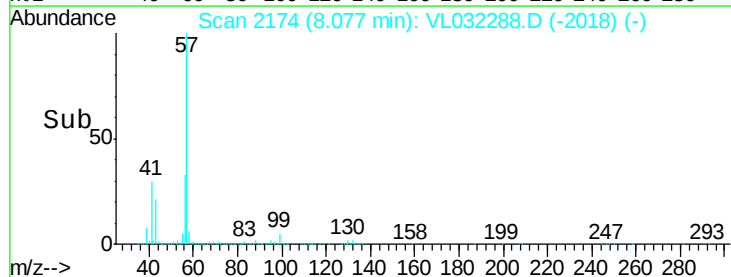
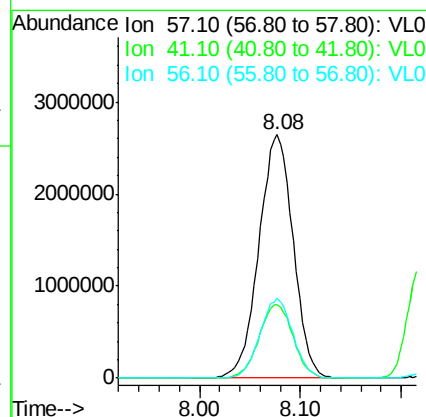
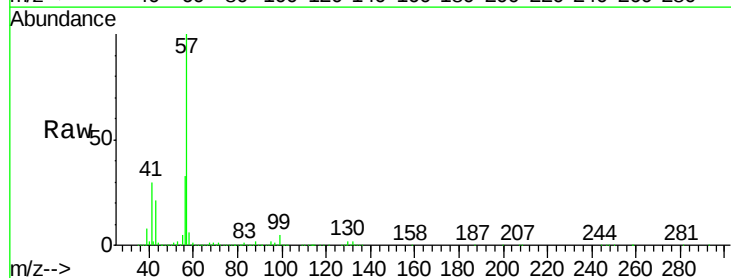
Manual Integrations
APPROVED

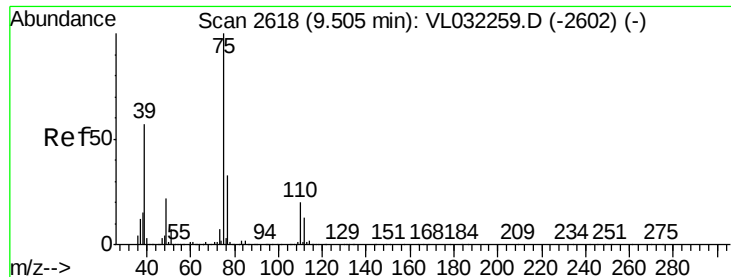
MMDadoda
7/20/2018 2:53:35 PM



#44
2,2,4-Trimethylpentane
Concen: 10.08 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion: 57 Resp: 6235393
Ion Ratio Lower Upper
57 100
41 30.2 24.4 36.6
56 31.5 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.21 ppbv

RT: 9.50 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1922067

Ion Ratio Lower Upper

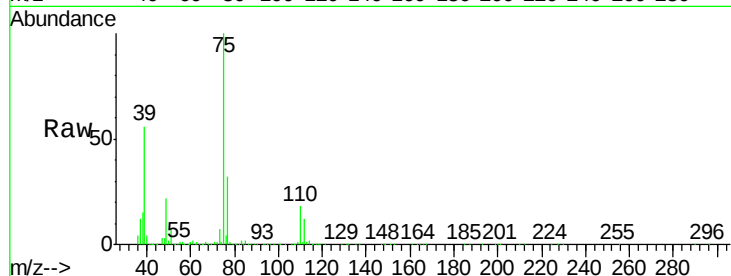
75 100

77 31.6 26.2 39.4

Manual Integrations
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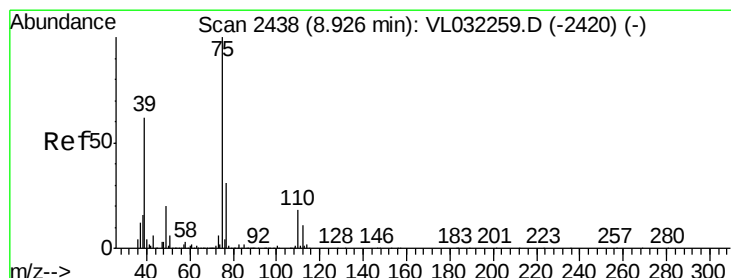
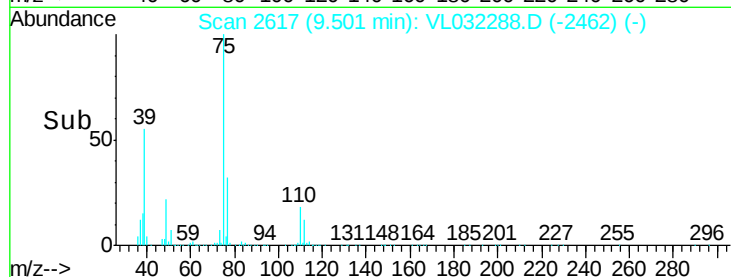
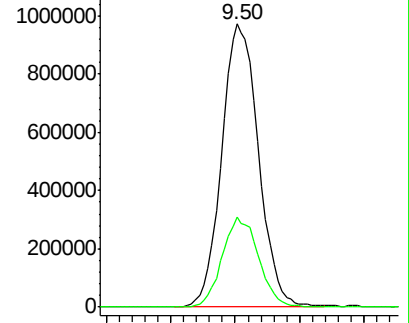
MMDadoda

7/20/2018 2:53:35 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 12.07 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

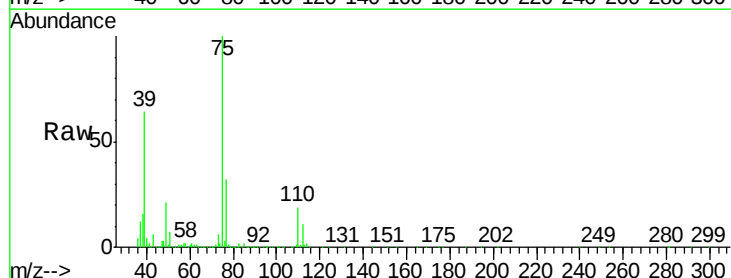
Tgt Ion: 75 Resp: 2639226

Ion Ratio Lower Upper

75 100

39 64.2 49.9 74.9

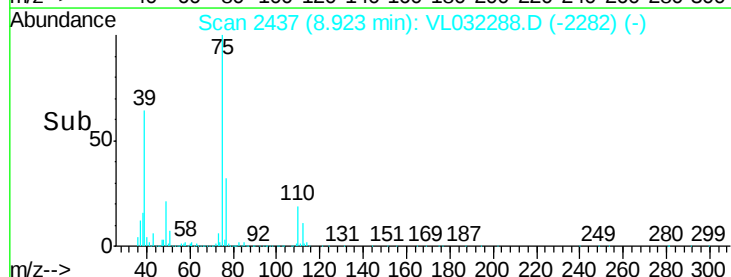
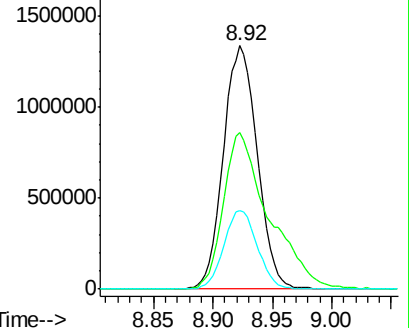
77 32.2 25.0 37.4

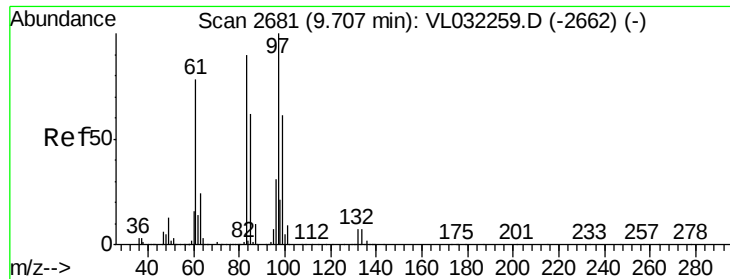


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





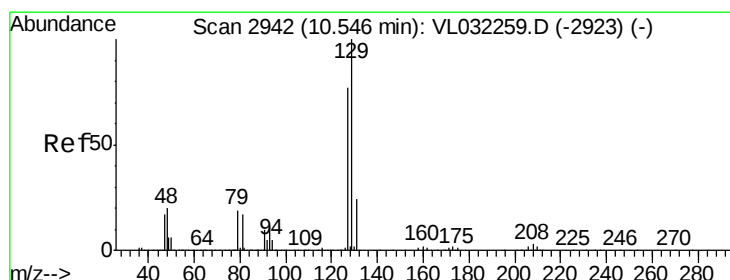
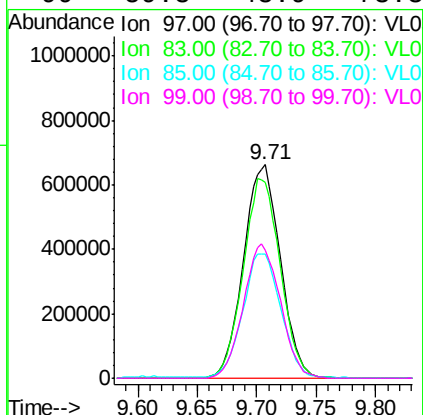
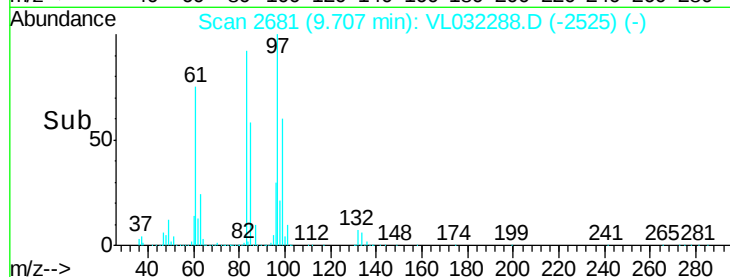
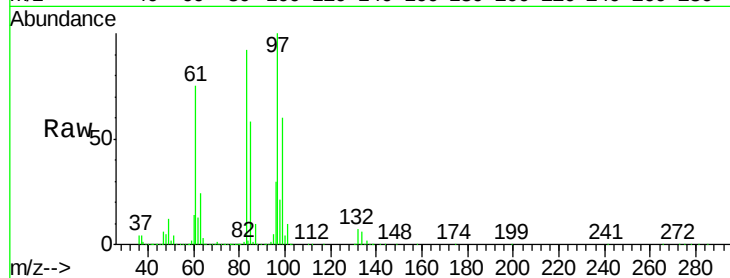
#47
 1,1,2-Trichloroethane
 Concen: 9.36 ppbv
 RT: 9.71 min Scan# 2681
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.5	72.3	108.5	
85	57.7	49.5	74.3	
99	59.8	48.9	73.3	

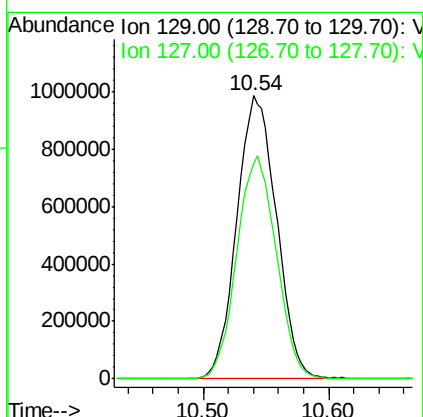
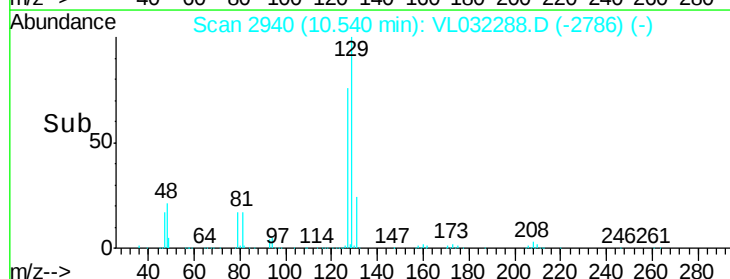
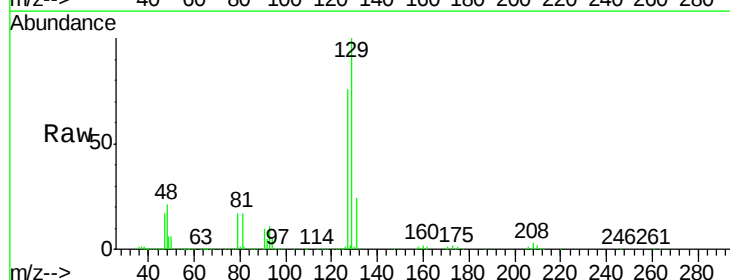
Manual Integrations
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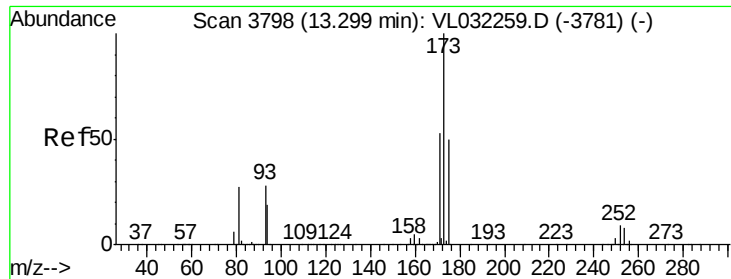
MMDadoda
 7/20/2018 2:53:35 PM



#48
 Dibromochloromethane
 Concen: 9.78 ppbv
 RT: 10.54 min Scan# 2940
 Delta R.T. -0.01 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.5	39.1	117.3	





#49

Bromoform

Concen: 10.74 ppbv

RT: 13.30 min Scan# 3797

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 2075950

Ion Ratio Lower Upper

173 100

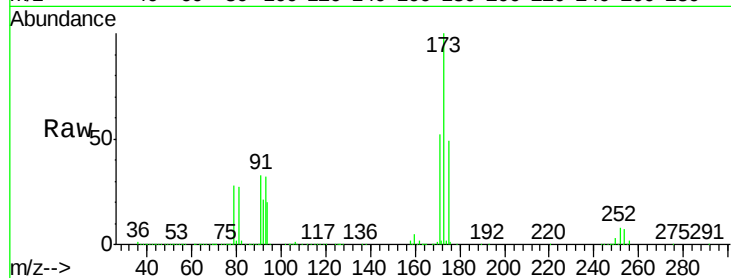
175 48.5 39.0 58.6

171 51.9 41.6 62.4

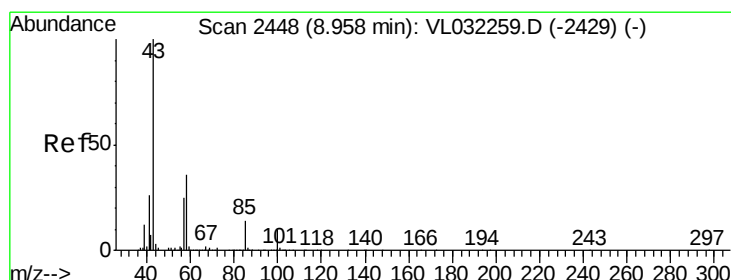
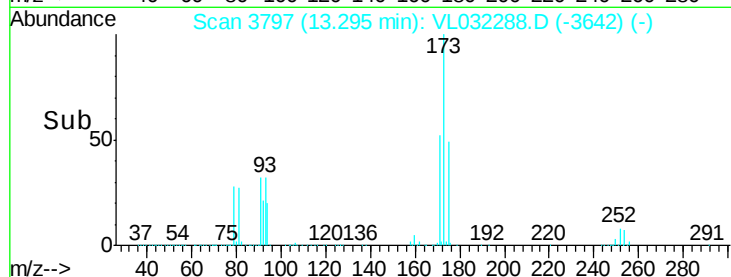
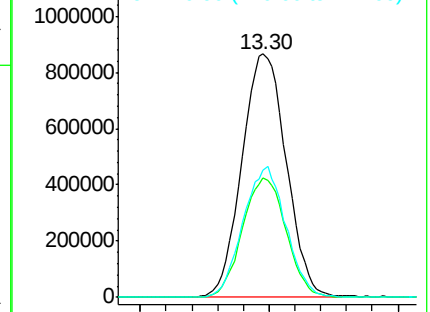
Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.43 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL032288.D

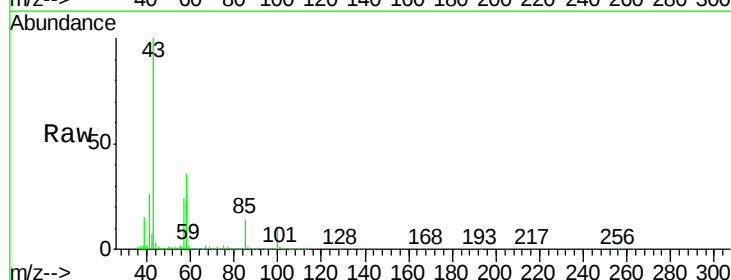
Acq: 19 Jul 2018 9:01

Tgt Ion: 43 Resp: 4655968

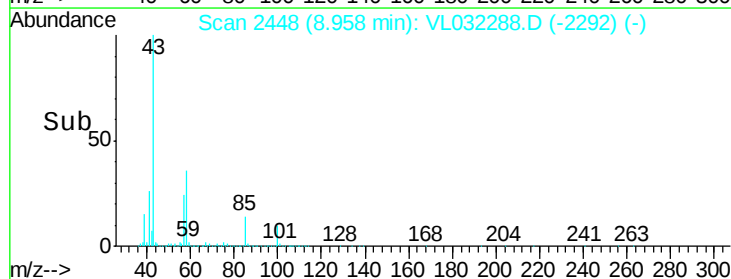
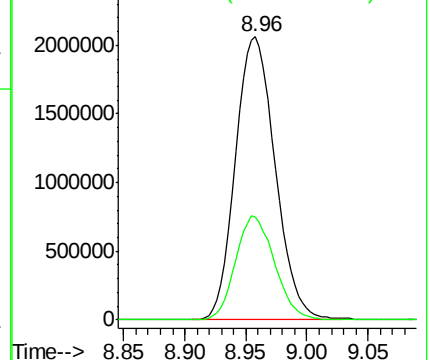
Ion Ratio Lower Upper

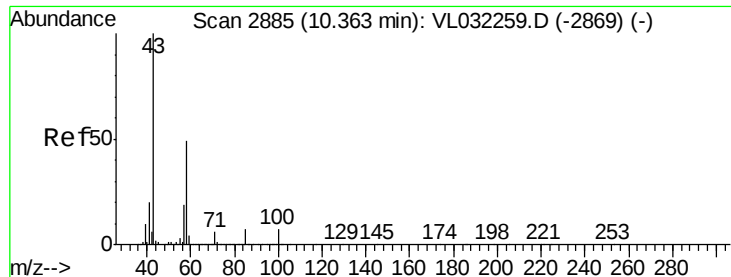
43 100

58 36.2 29.2 43.8



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





#51

2-Hexanone

Concen: 10.47 ppbv

RT: 10.36 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3250606

Ion Ratio Lower Upper

43 100

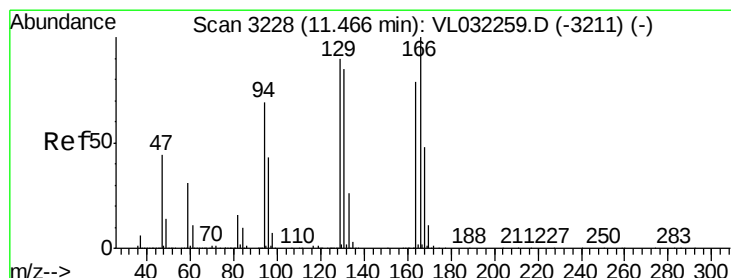
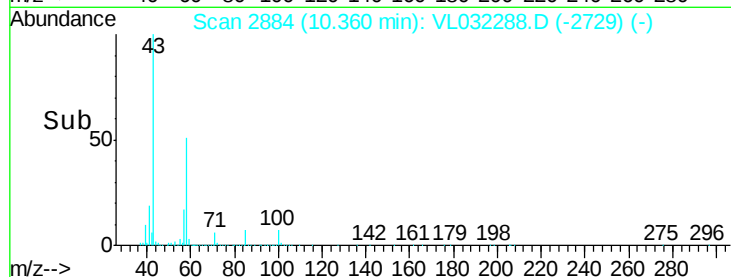
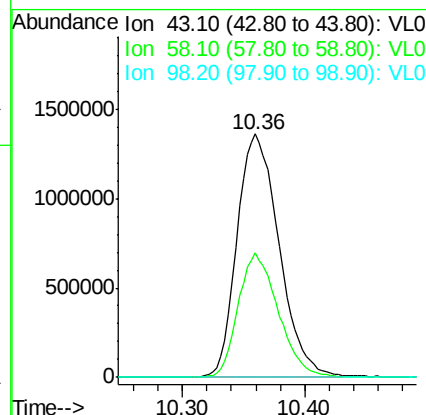
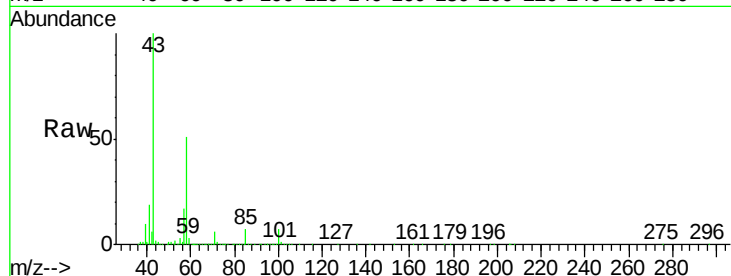
58 48.9 39.4 59.2

98 0.2 0.2 0.2#

Manual Integrations
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#52

Tetrachloroethene

Concen: 10.21 ppbv

RT: 11.47 min Scan# 3228

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Tgt Ion: 164 Resp: 1238201

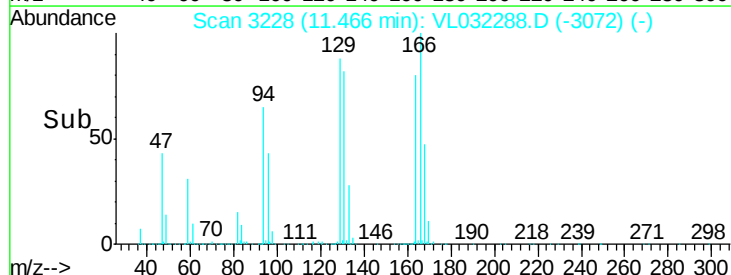
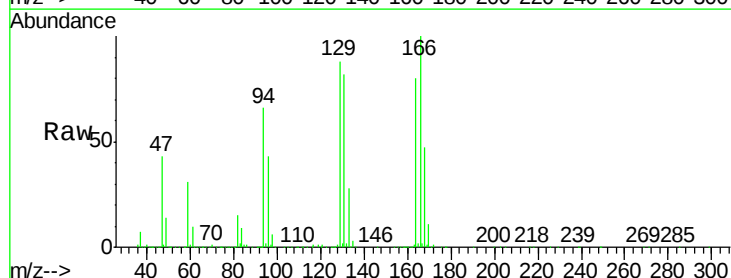
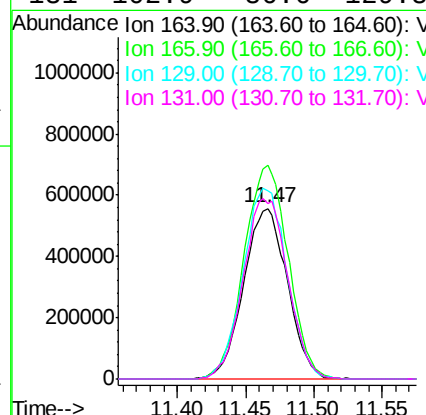
Ion Ratio Lower Upper

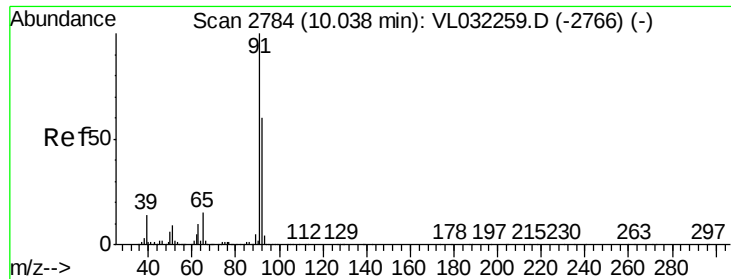
164 100

166 124.9 101.7 152.5

129 110.2 91.5 137.3

131 102.9 86.6 129.8





#53

Toluene

Concen: 10.85 ppbv

RT: 10.04 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4670265

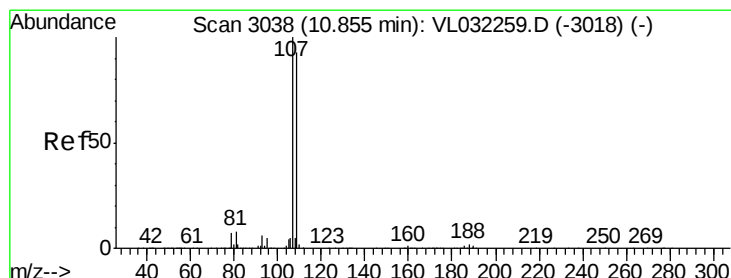
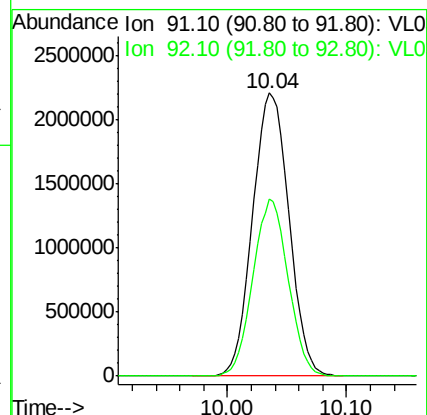
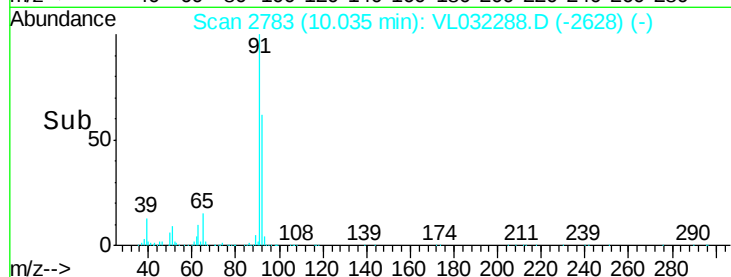
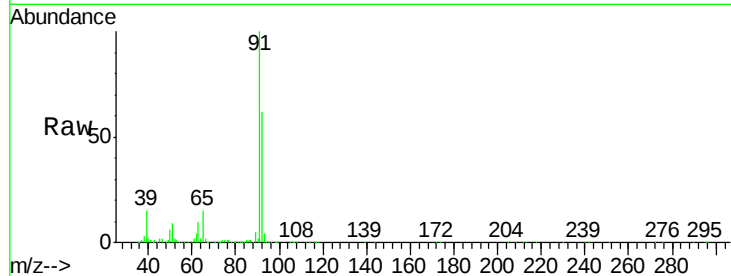
Ion Ratio Lower Upper

91 100

92 60.7 48.6 72.8

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 10.55 ppbv

RT: 10.85 min Scan# 3037

Delta R.T. -0.00 min

Lab File: VL032288.D

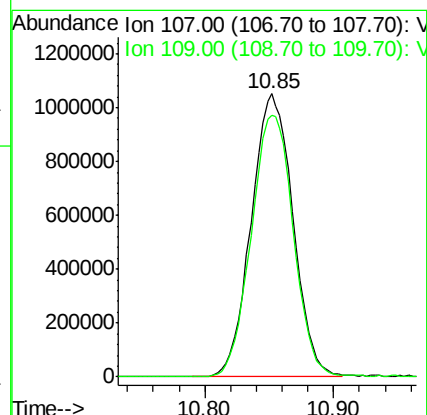
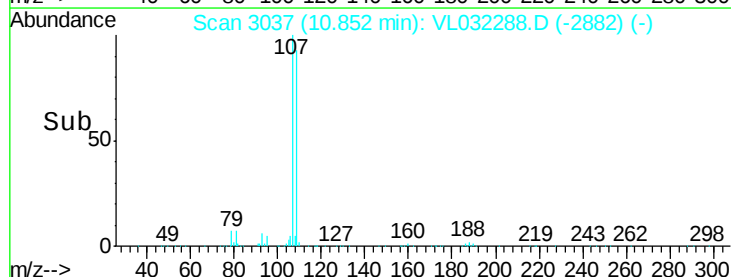
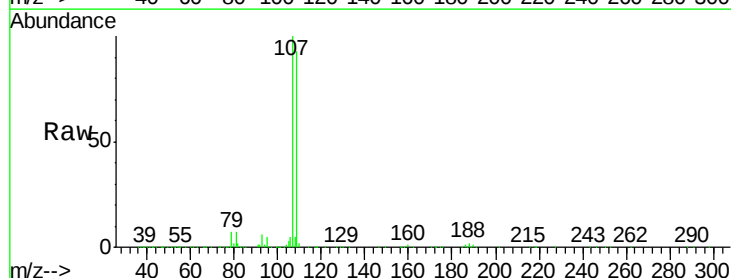
Acq: 19 Jul 2018 9:01

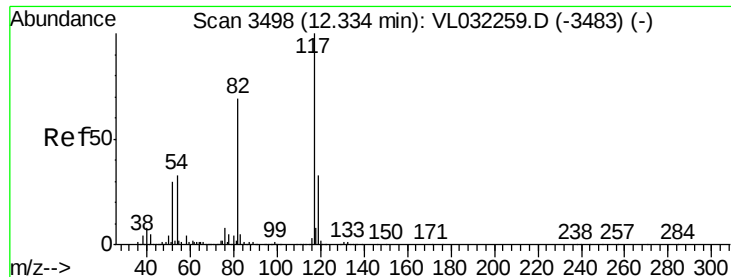
Tgt Ion: 107 Resp: 2364536

Ion Ratio Lower Upper

107 100

109 92.5 74.8 112.2





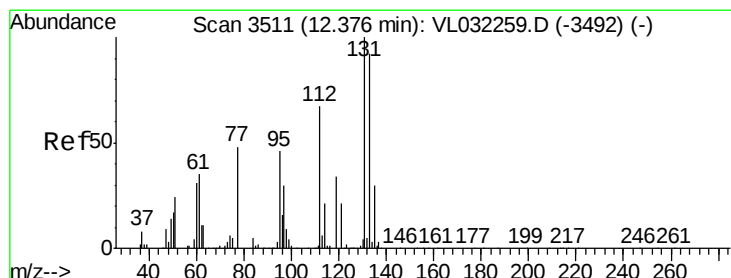
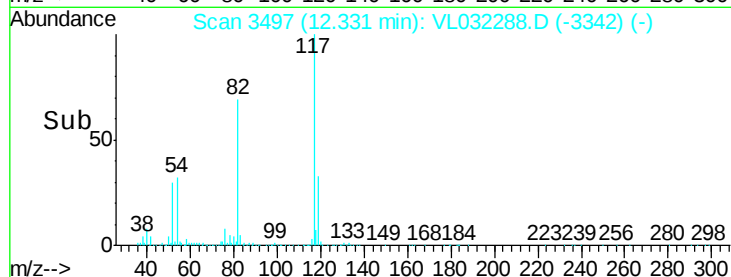
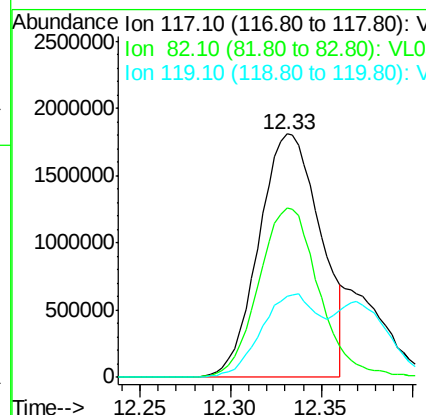
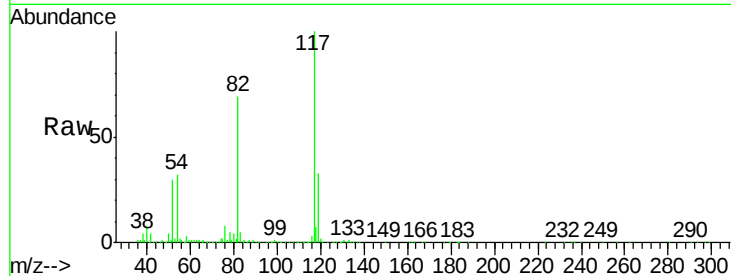
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.33 min Scan# 3497
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 4263504
Ion Ratio Lower Upper
117 100
82 68.9 53.9 80.9
119 30.5 25.5 38.3

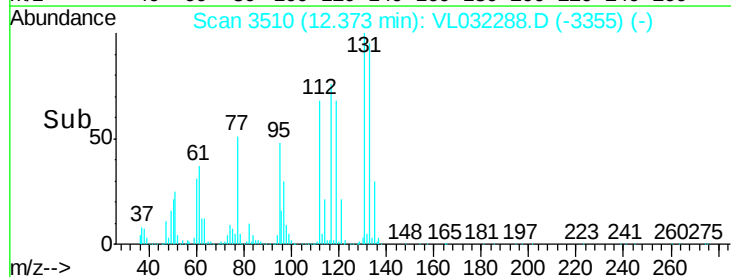
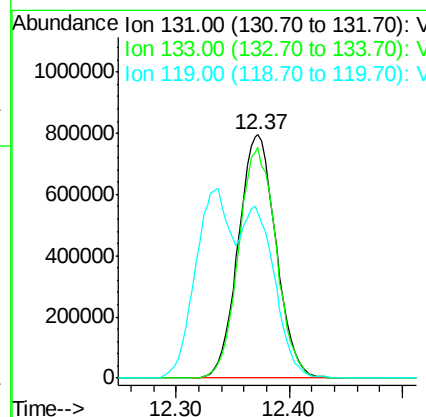
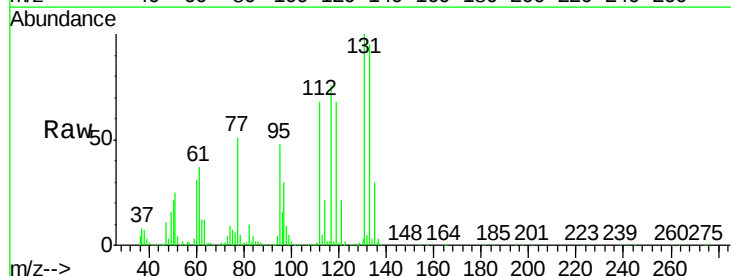
Manual Integrations
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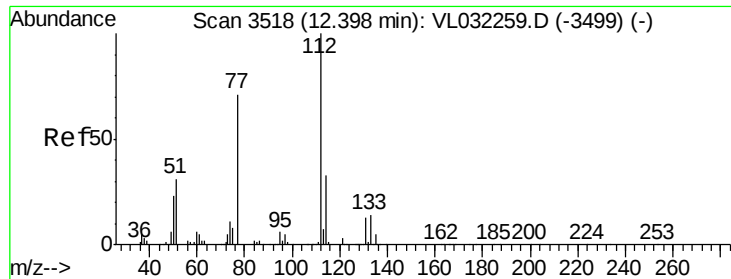
MMDadoda
7/20/2018 2:53:35 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.68 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion:131 Resp: 1838155
Ion Ratio Lower Upper
131 100
133 94.7 75.4 113.0
119 57.8 49.4 74.2





#57

Chlorobenzene

Concen: 9.68 ppbv

RT: 12.40 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 3386784

Ion Ratio Lower Upper

112 100

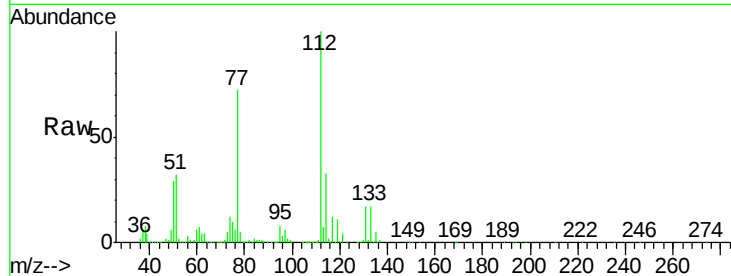
77 71.8 58.2 87.4

114 32.7 29.5 36.1

Manual Integrations
APPROVED

MMDadoda

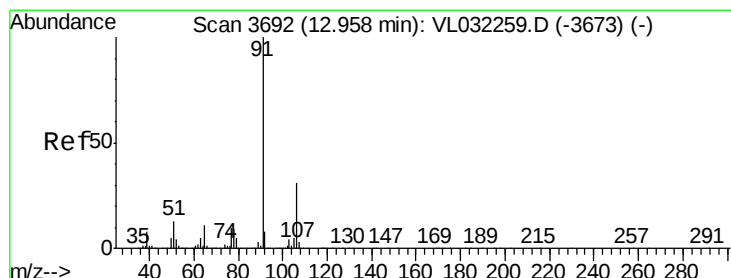
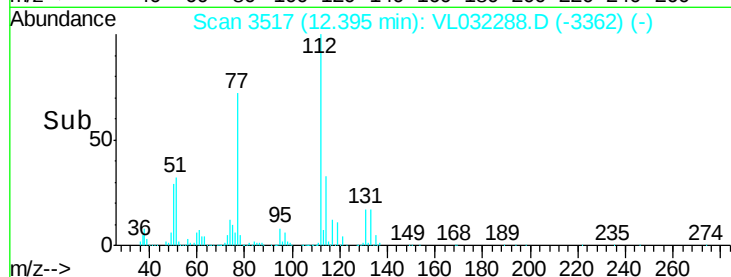
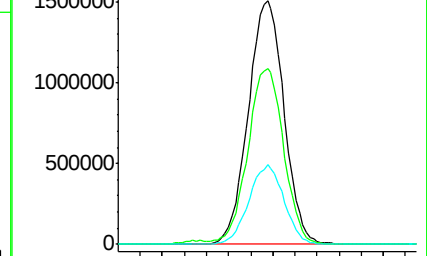
7/20/2018 2:53:35 PM



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: 10.46 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032288.D

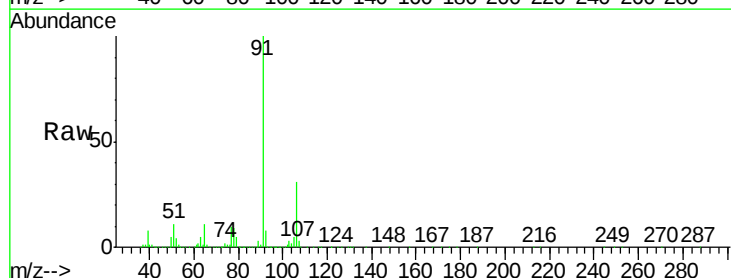
Acq: 19 Jul 2018 9:01

Tgt Ion: 91 Resp: 6283035

Ion Ratio Lower Upper

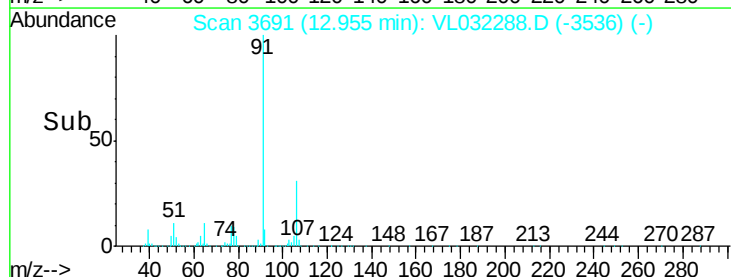
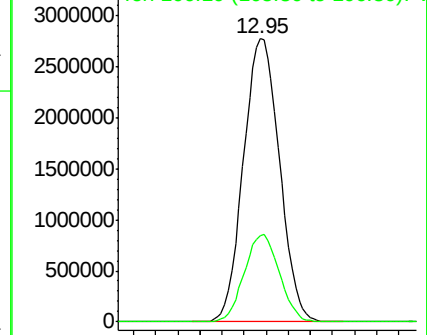
91 100

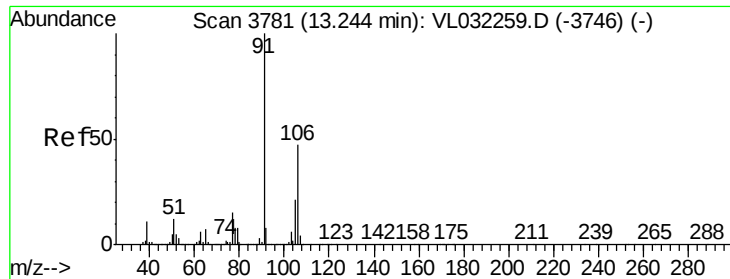
106 30.6 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





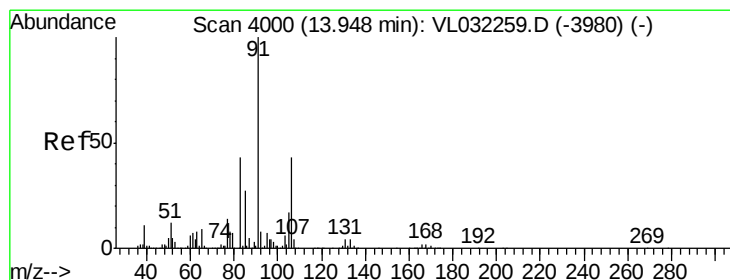
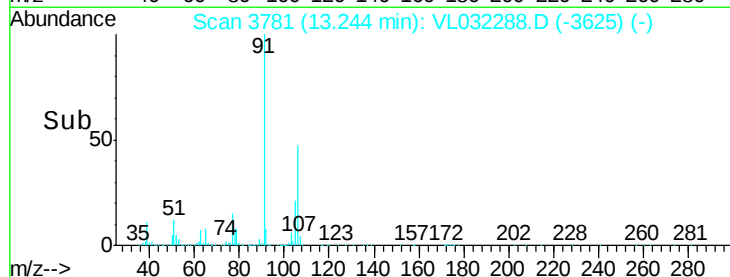
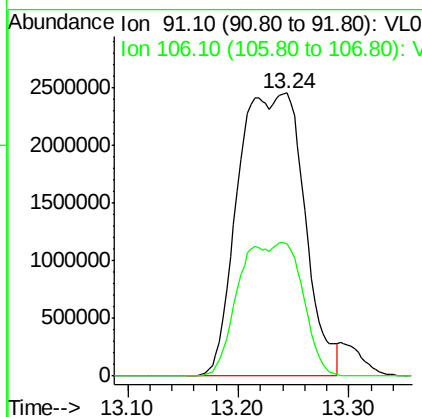
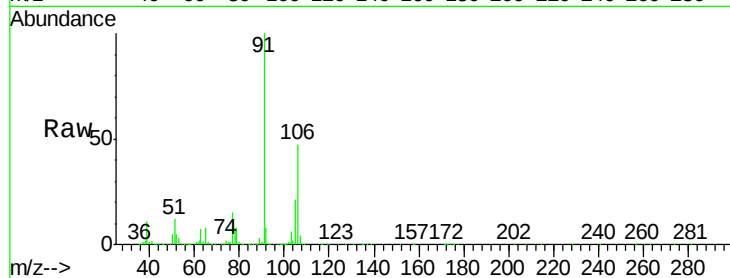
#59
m/p-Xylene
Concen: 19.85 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 10175736
Ion Ratio Lower Upper
91 100
106 45.5 36.2 54.2

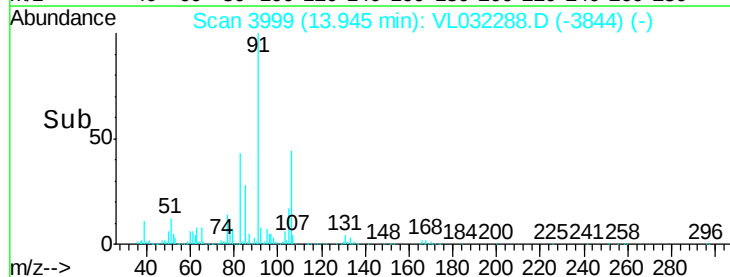
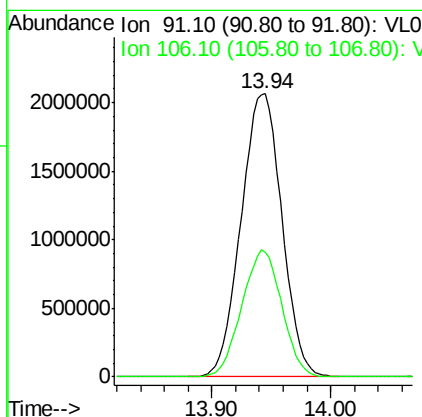
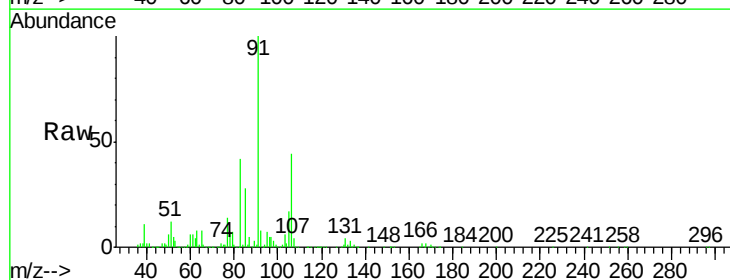
Manual Integrations
APPROVED

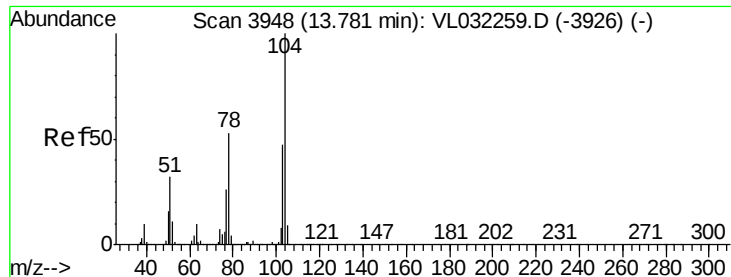
MMDadoda
7/20/2018 2:53:35 PM



#60
o-Xylene
Concen: 9.61 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion: 91 Resp: 4903514
Ion Ratio Lower Upper
91 100
106 44.0 21.7 65.1





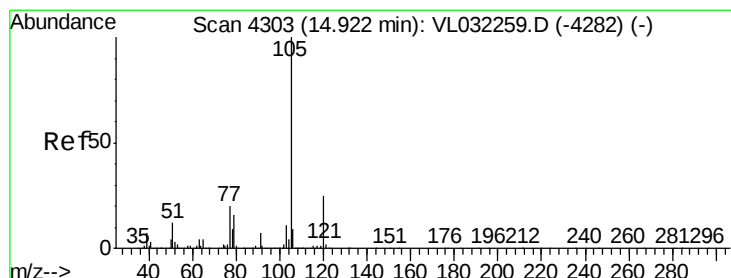
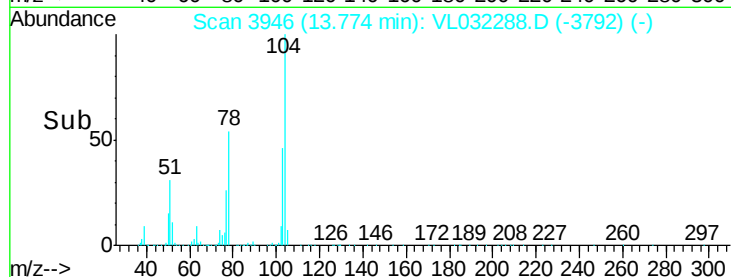
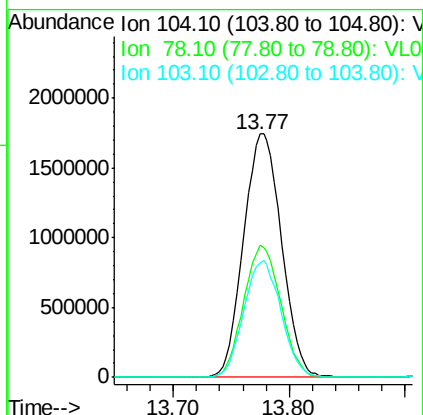
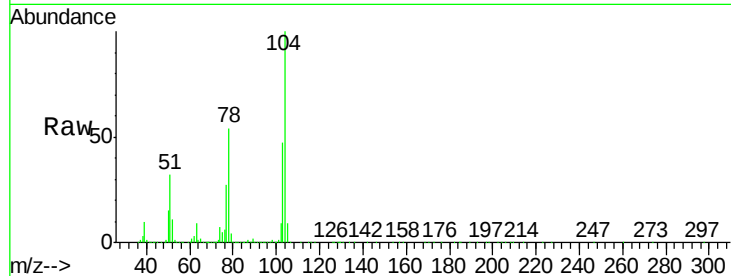
#61
Stvrene
Concen: 10.48 ppbv
RT: 13.77 min Scan# 3946
Delta R.T. -0.01 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	43.2	64.8
103	47.2	37.8	56.6

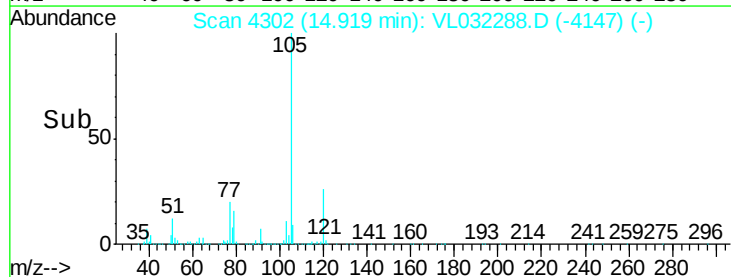
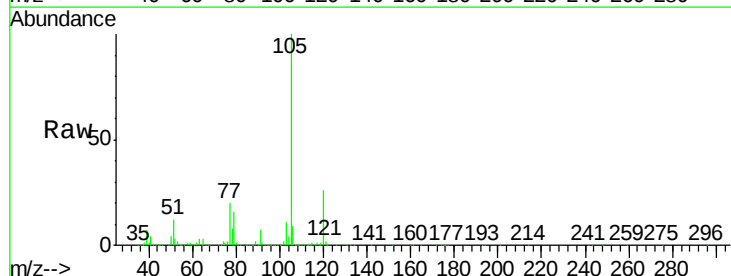
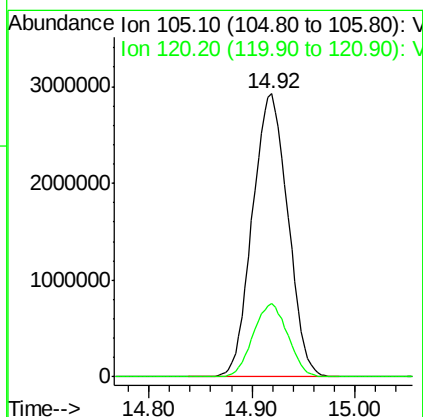
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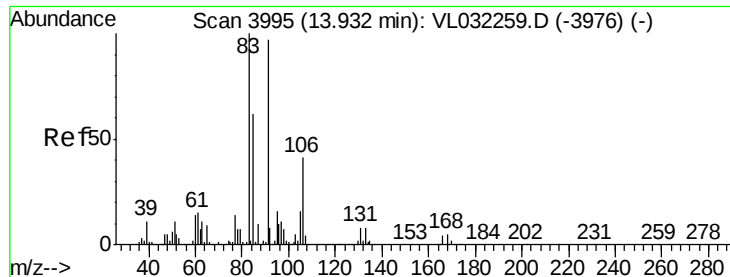
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#62
Isopropylbenzene
Concen: 9.52 ppbv
RT: 14.92 min Scan# 4302
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.2	30.4





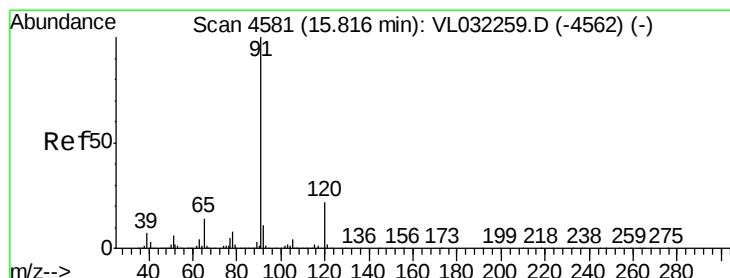
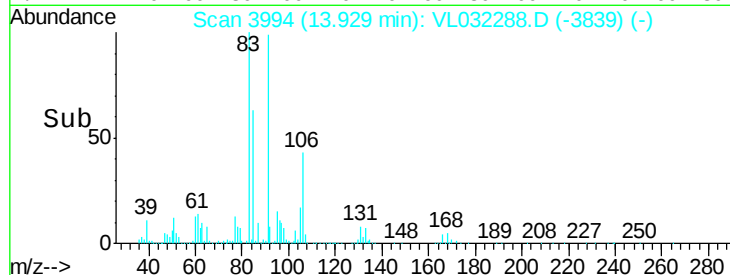
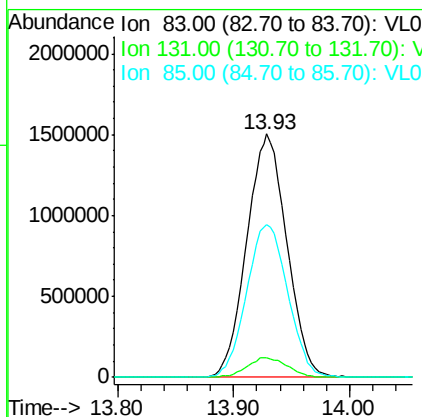
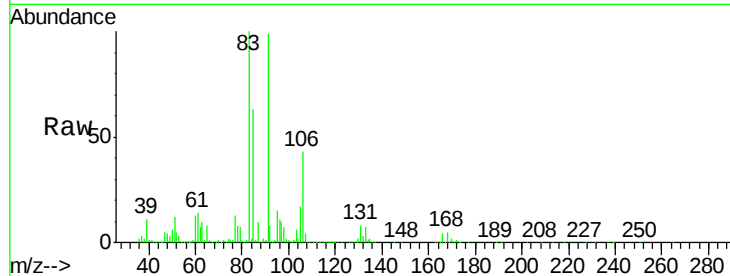
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.30 ppbv
 RT: 13.93 min Scan# 3994
 Delta R.T. -0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	3610195
Ion Ratio	100	Lower	Upper
83	100		
131	8.2	4.2	12.6
85	64.7	32.2	96.6

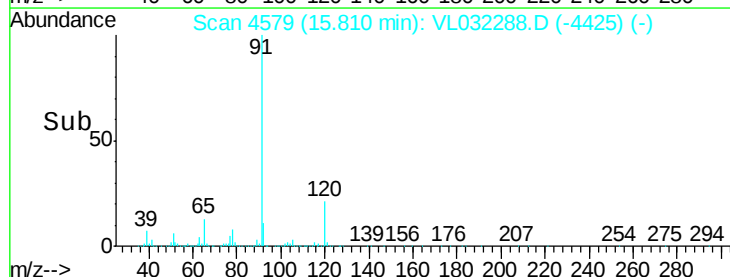
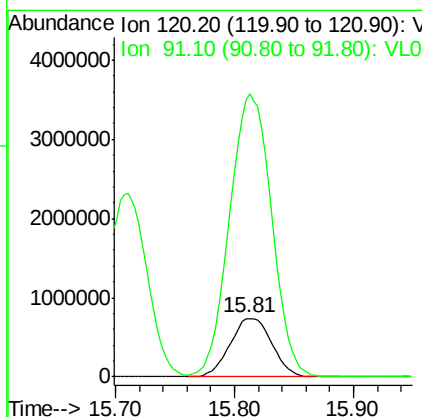
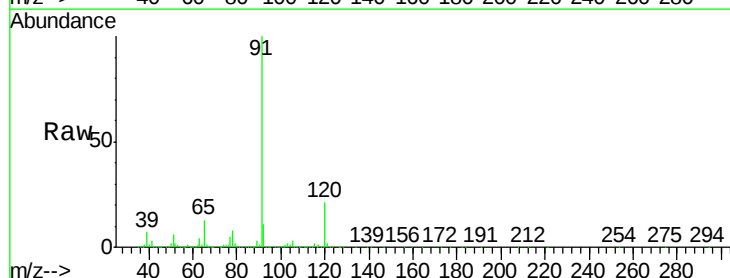
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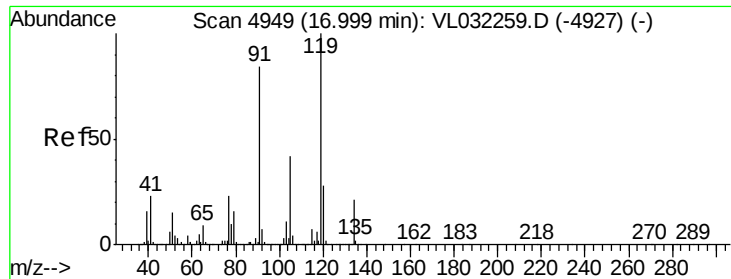
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.56 ppbv
 RT: 15.81 min Scan# 4579
 Delta R.T. -0.01 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	120	Resp	1796866
Ion Ratio	100	Lower	Upper
120	100		
91	487.9	384.4	576.6





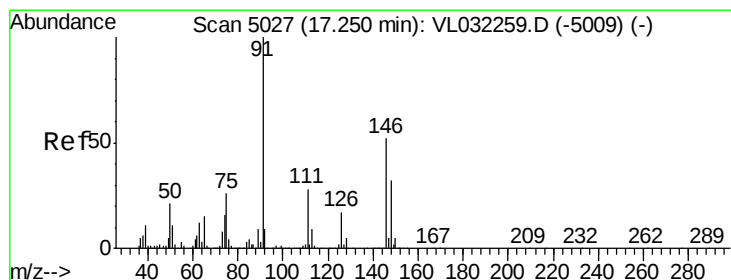
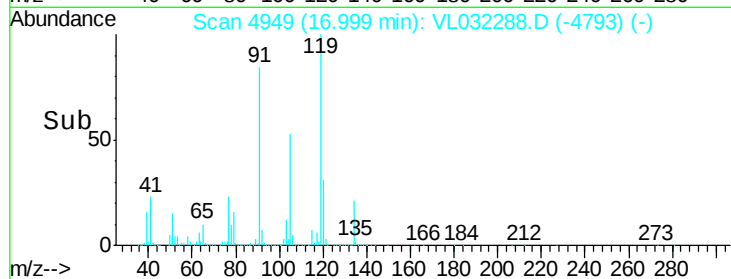
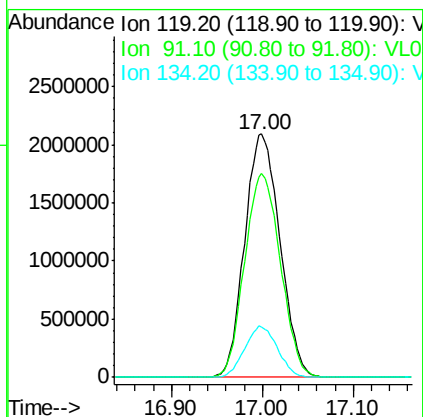
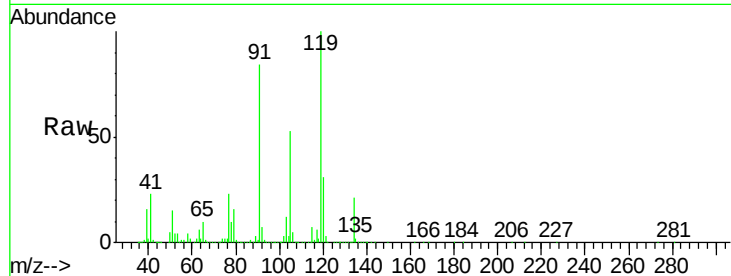
#65
tert-Butylbenzene
Concen: 9.04 ppbv
RT: 17.00 min Scan# 4949
Delta R.T. 0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 5635433
Ion Ratio Lower Upper
119 100
91 84.9 68.2 102.4
134 19.5 15.6 23.4

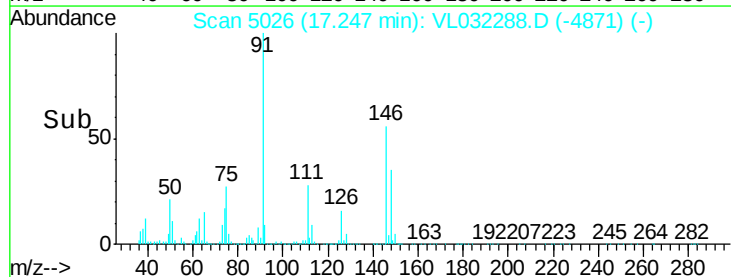
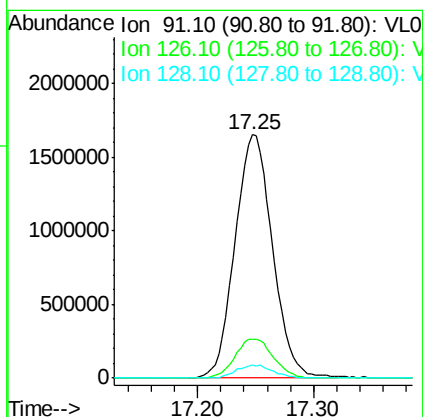
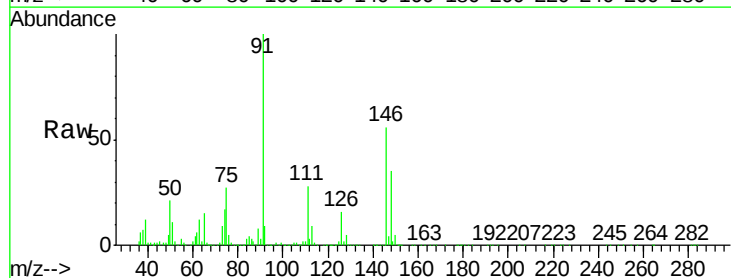
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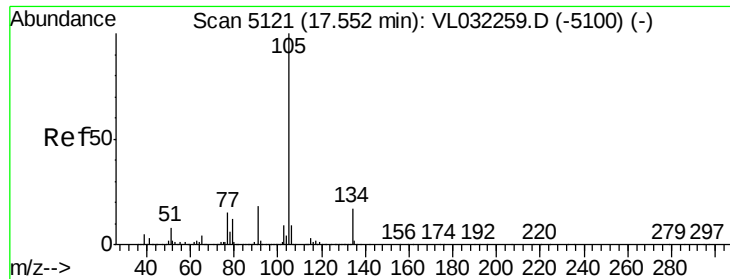
MMDadoda
7/20/2018 2:53:35 PM



#66
Benzyl Chloride
Concen: 10.53 ppbv
RT: 17.25 min Scan# 5026
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion: 91 Resp: 3696799
Ion Ratio Lower Upper
91 100
126 16.4 13.4 20.2
128 5.2 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.14 ppbv

RT: 17.55 min Scan# 5120

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 8498933

Ion Ratio Lower Upper

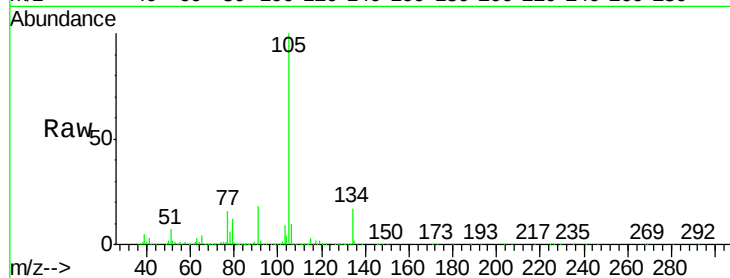
105 100

134 17.6 14.0 21.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

4000000

3000000

2000000

1000000

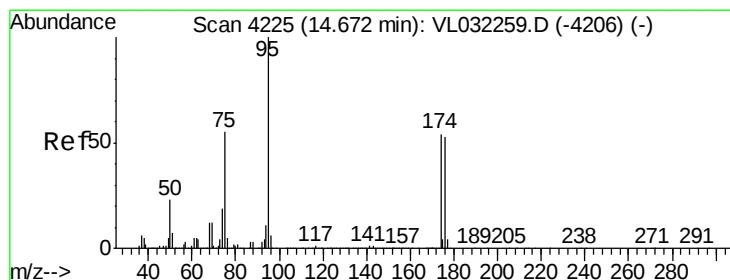
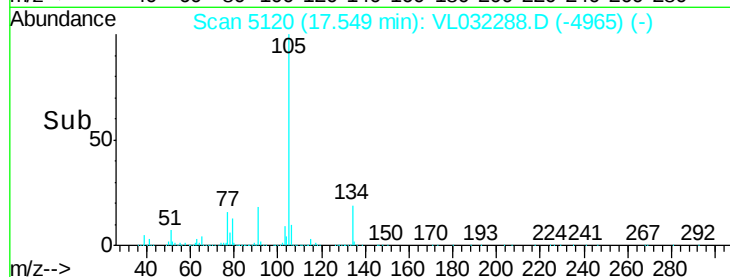
0

17.55

17.50

17.60

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.57 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

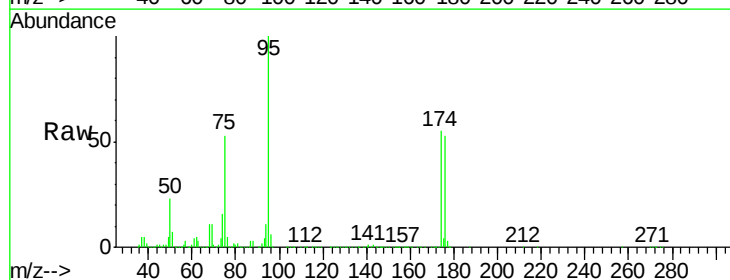
Tgt Ion: 95 Resp: 3306548

Ion Ratio Lower Upper

95 100

174 56.6 44.3 66.5

175 4.2 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

2000000

1500000

1000000

500000

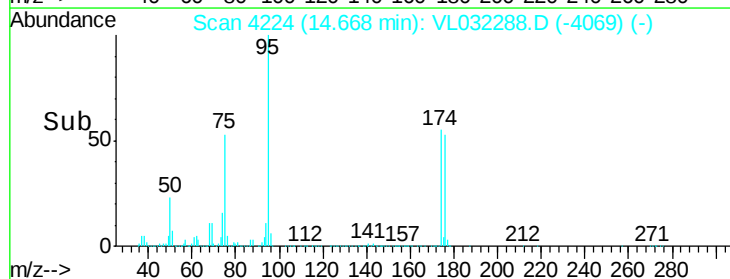
0

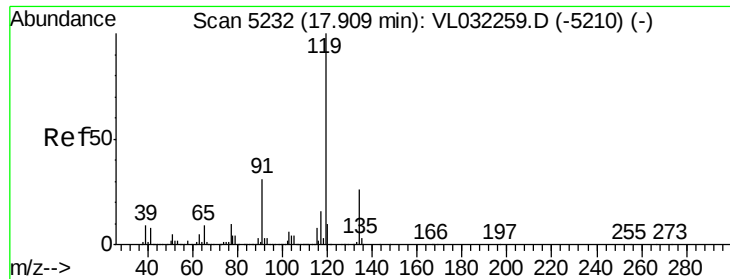
14.67

14.60

14.70

Time-->





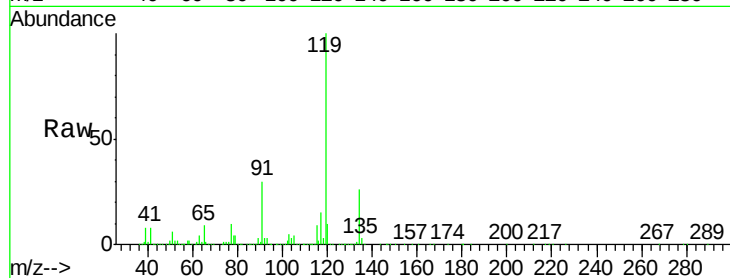
#69
 p-Isopropyltoluene
 Concen: 9.40 ppbv
 RT: 17.91 min Scan# 5231
 Delta R.T. -0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

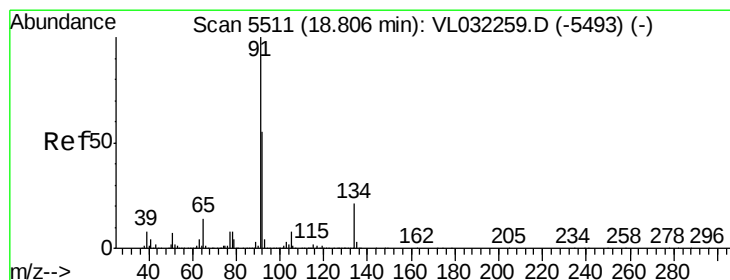
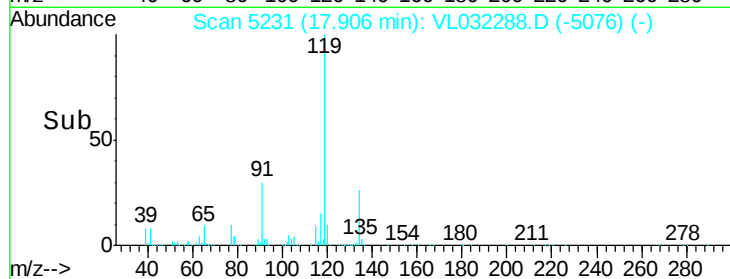
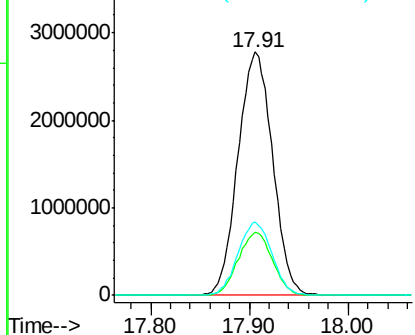
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	29.7	24.1	36.1

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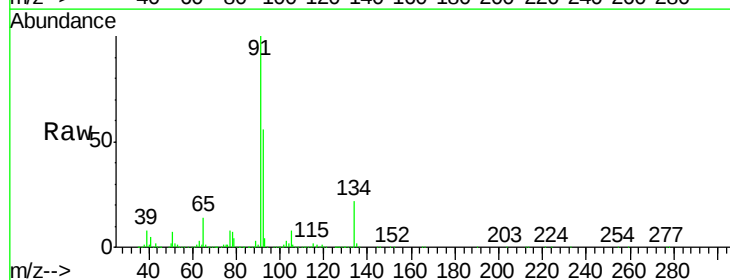


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

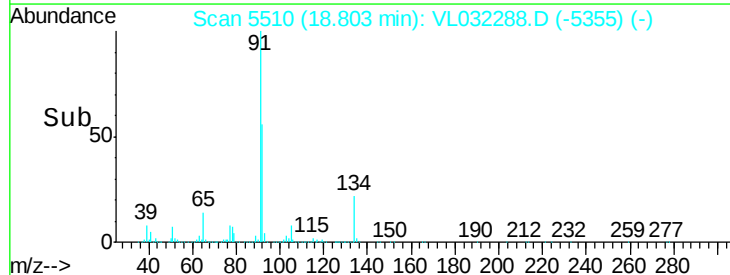
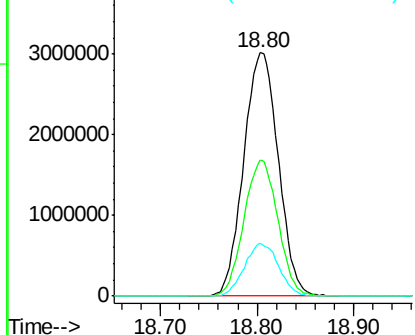


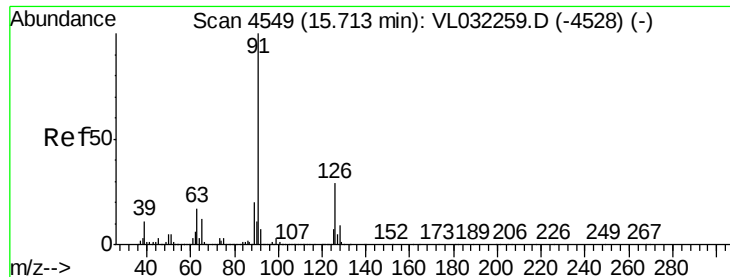
#70
 n-Butylbenzene
 Concen: 9.34 ppbv
 RT: 18.80 min Scan# 5510
 Delta R.T. -0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.8	43.8	65.6
134	21.4	17.1	25.7



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 92.10 (91.80 to 92.80): V
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.45 ppbv

RT: 15.71 min Scan# 4548

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5544593

Ion Ratio Lower Upper

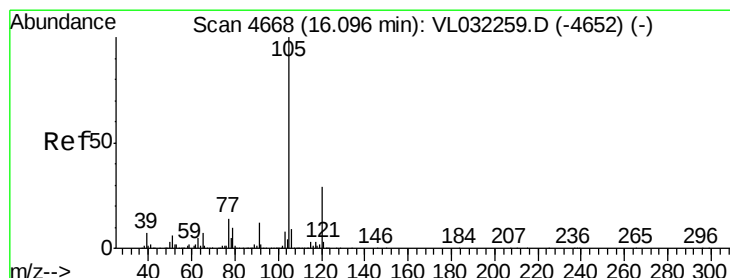
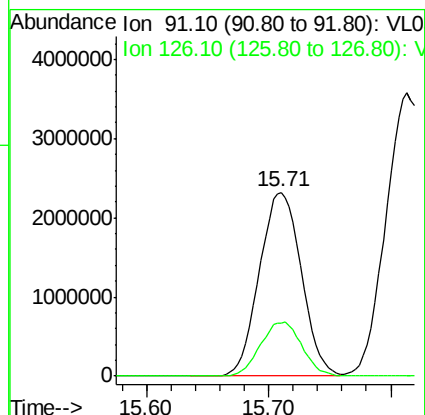
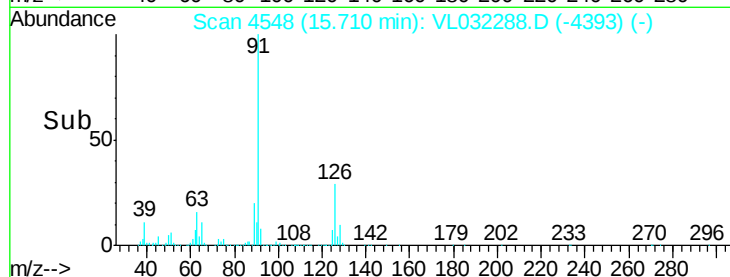
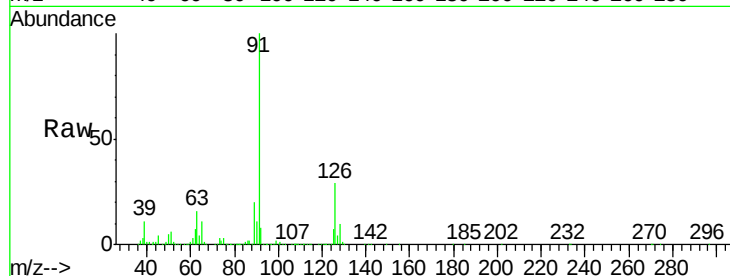
91 100

126 29.2 11.6 46.2

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#72

4-Ethyltoluene

Concen: 9.83 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Tgt Ion: 105 Resp: 5793881

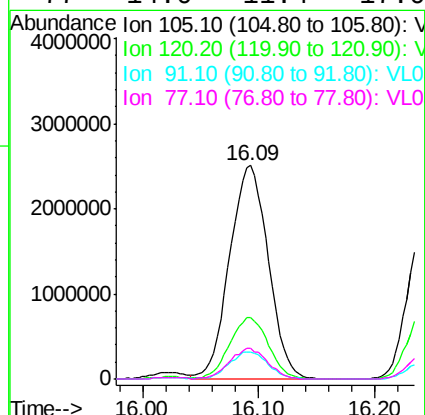
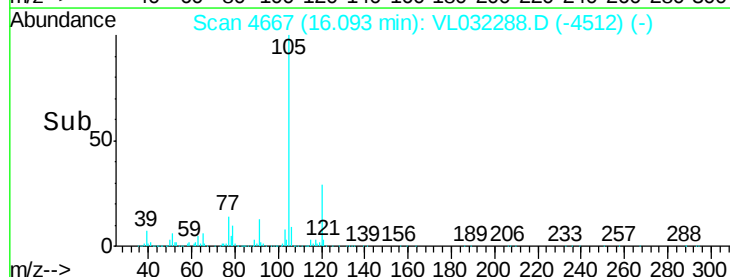
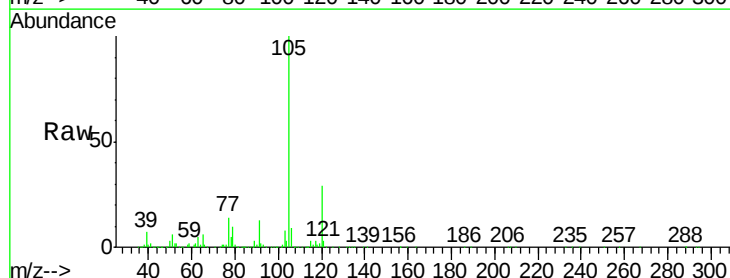
Ion Ratio Lower Upper

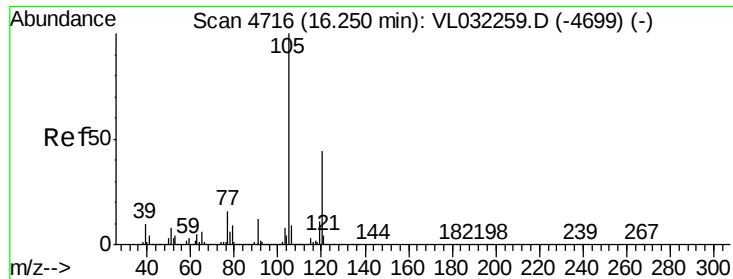
105 100

120 28.9 23.0 34.6

91 12.6 10.1 15.1

77 14.0 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 9.51 ppbv

RT: 16.25 min Scan# 4715

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5485243

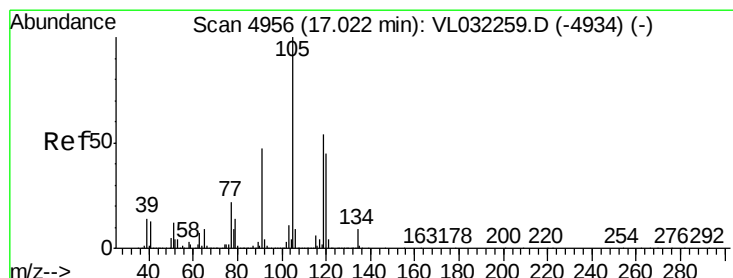
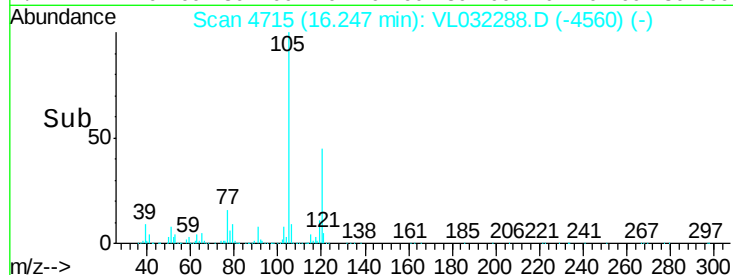
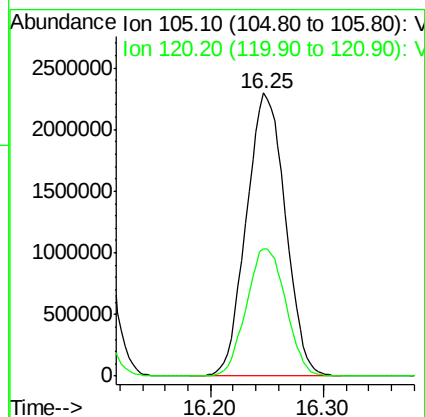
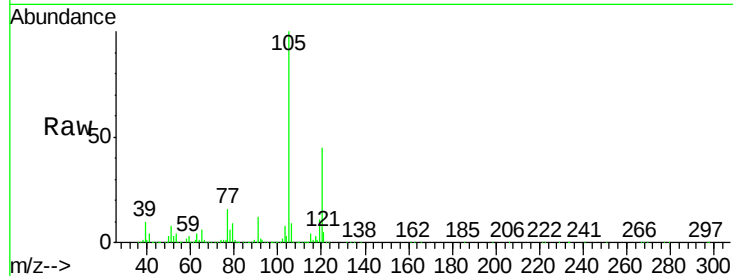
Ion Ratio Lower Upper

105 100

120 45.0 35.5 53.3

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#74

1,2,4-Trimethylbenzene

Concen: 8.96 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. 0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Tgt Ion:105 Resp: 5404877

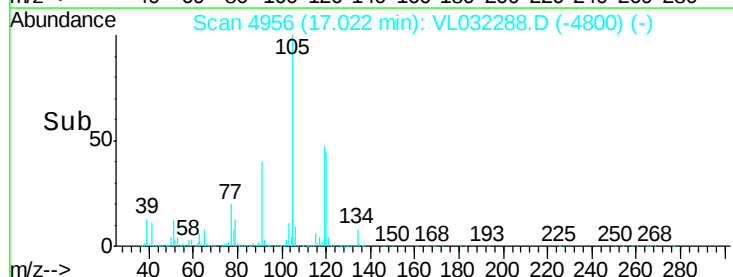
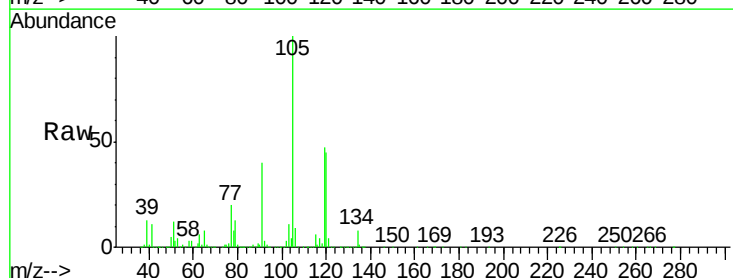
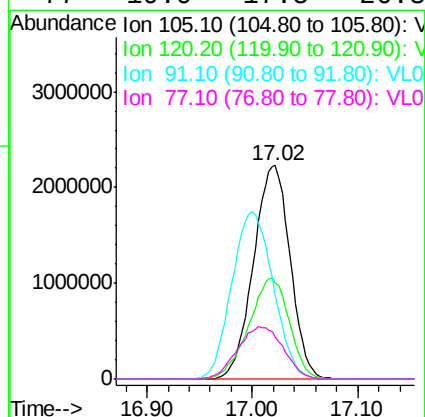
Ion Ratio Lower Upper

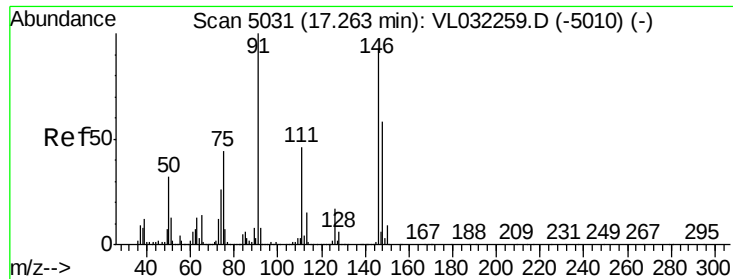
105 100

120 44.9 35.8 53.6

91 39.7 38.2 57.4

77 19.9 17.5 26.3





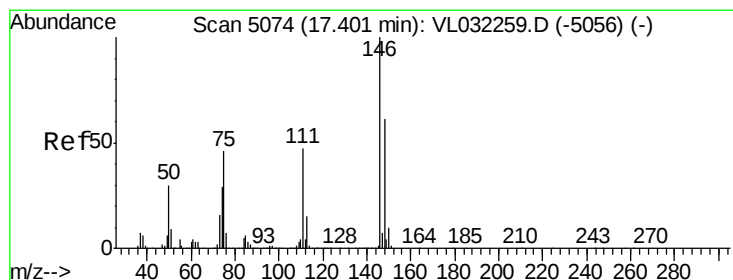
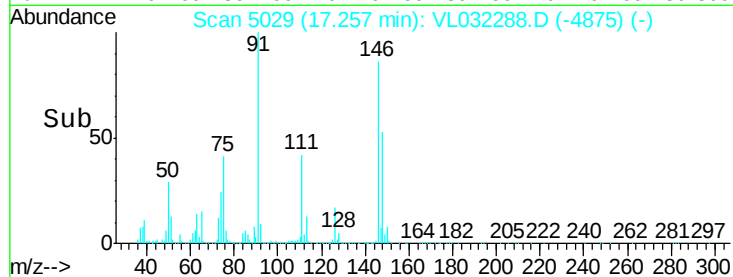
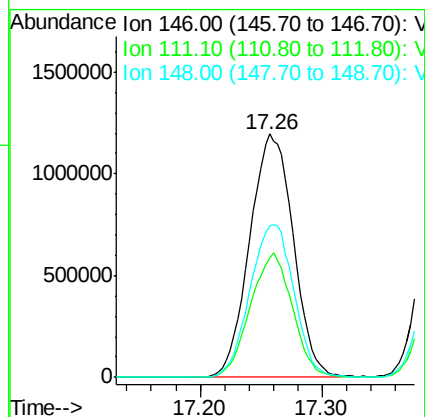
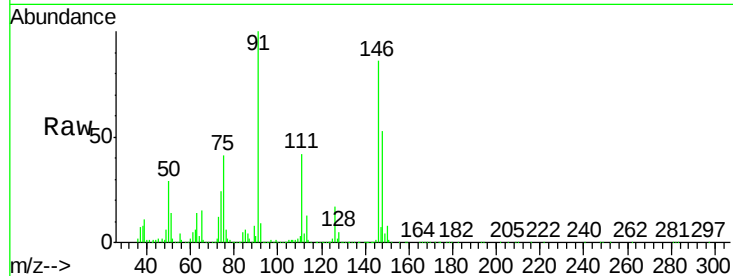
#75
 1,3-Dichlorobenzene
 Concen: 8.81 ppbv
 RT: 17.26 min Scan# 5029
 Delta R.T. -0.01 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2955822
 Ion Ratio Lower Upper
 146 100
 111 49.4 25.1 75.4
 148 63.4 31.8 95.3

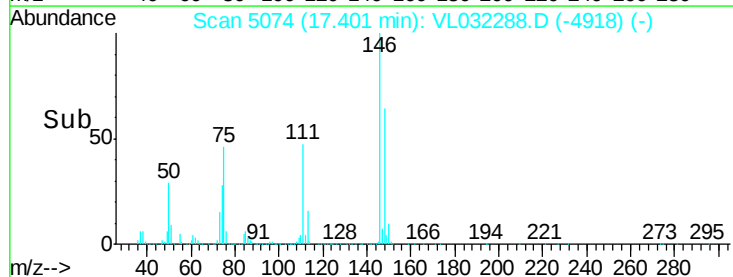
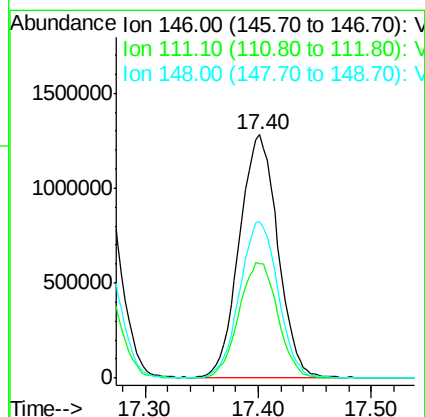
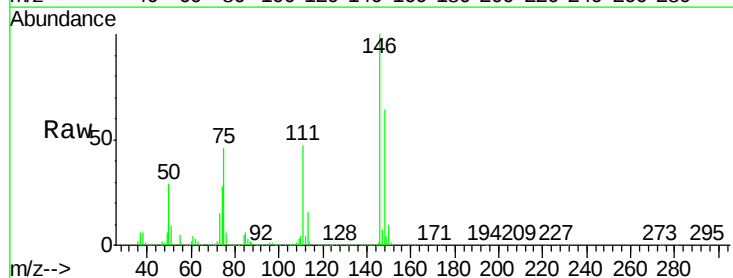
Manual Integrations
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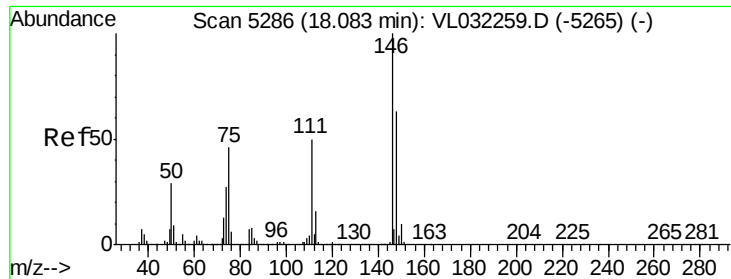
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 9.09 ppbv
 RT: 17.40 min Scan# 5074
 Delta R.T. 0.00 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Tgt Ion:146 Resp: 3024181
 Ion Ratio Lower Upper
 146 100
 111 48.0 24.1 72.2
 148 64.1 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 9.01 ppbv

RT: 18.08 min Scan# 5285

Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

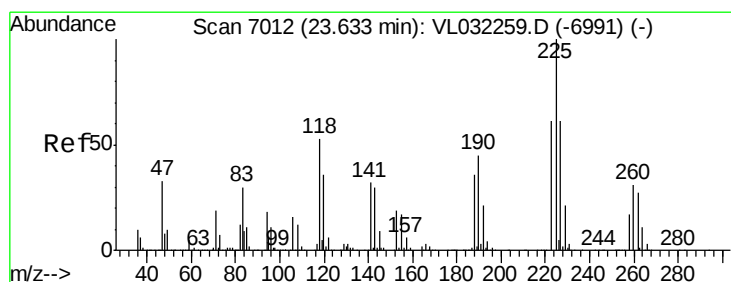
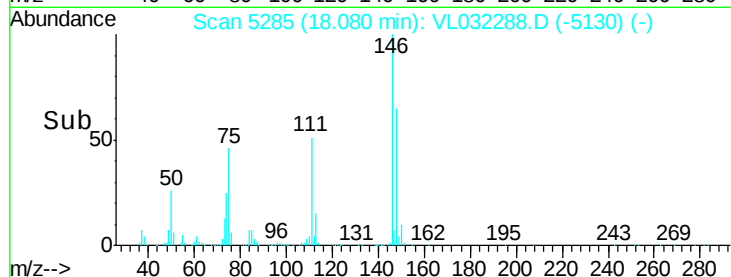
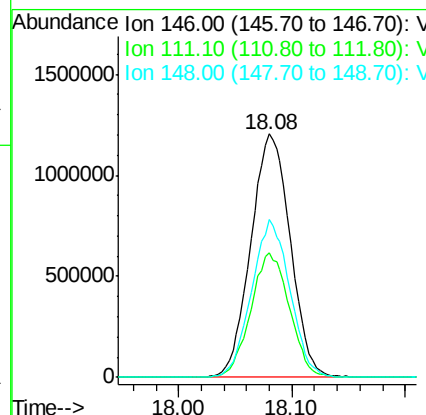
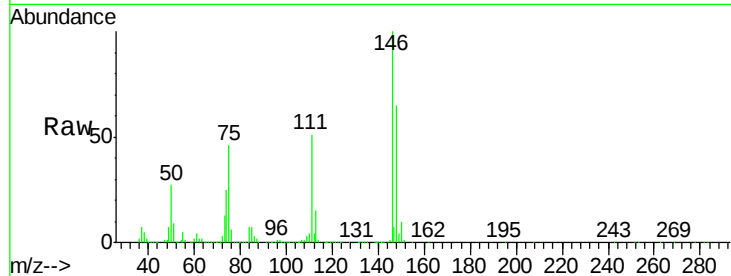
Instrument :
MSVOA_L

ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	25.6	76.8
148	63.0	31.9	95.5

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#78

Hexachloro-1,3-Butadiene

Concen: 16.95 ppbv

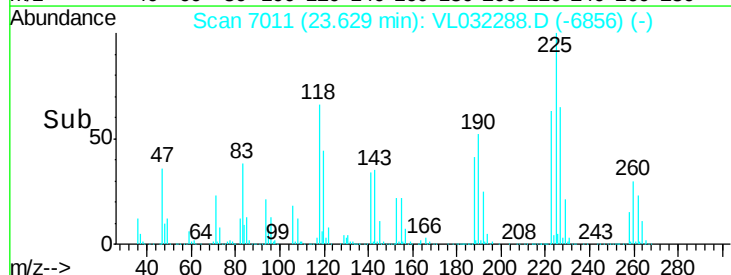
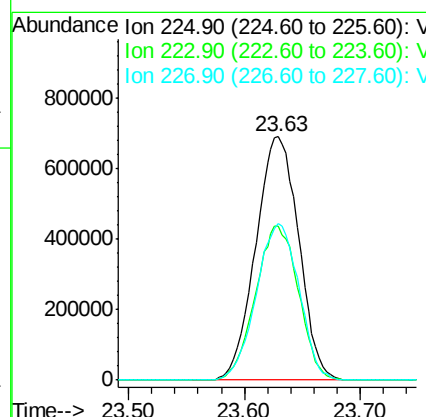
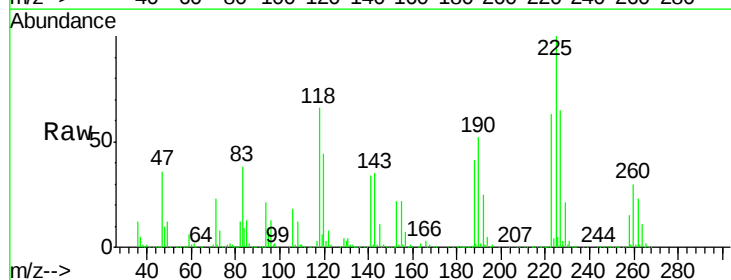
RT: 23.63 min Scan# 7011

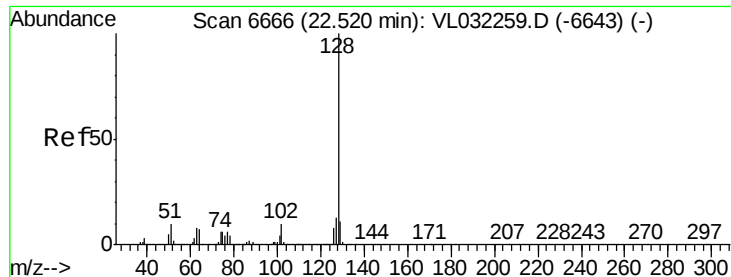
Delta R.T. -0.00 min

Lab File: VL032288.D

Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	75.8
227	63.9	51.5	77.3





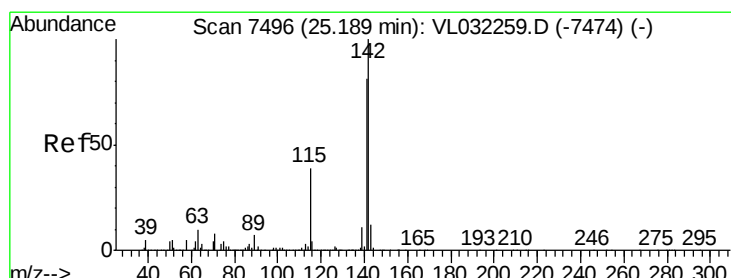
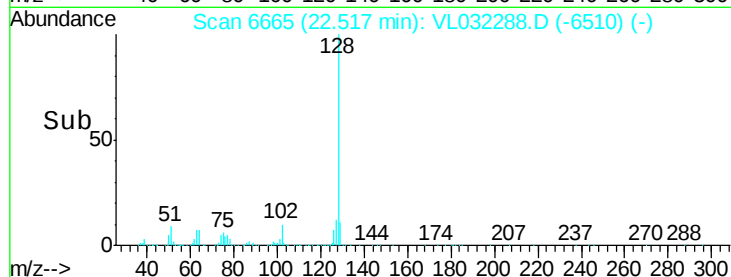
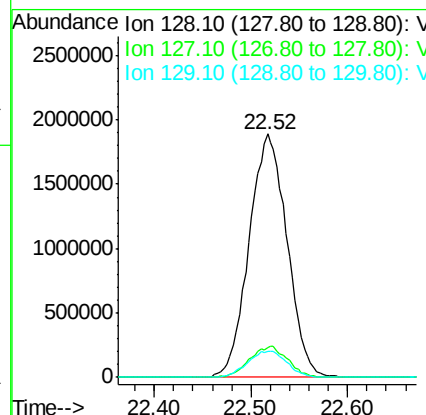
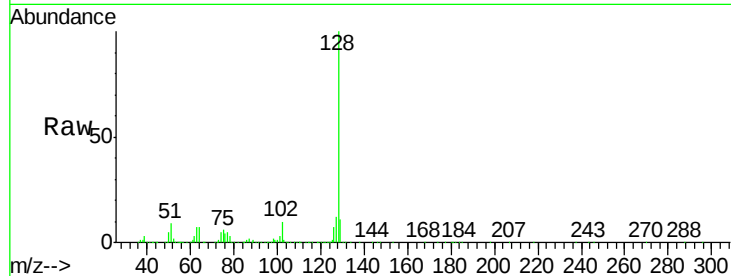
#79
Naphthalene
Concen: 10.17 ppbv
RT: 22.52 min Scan# 6665
Delta R.T. -0.00 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.5	15.7
129	10.8	8.6	12.8

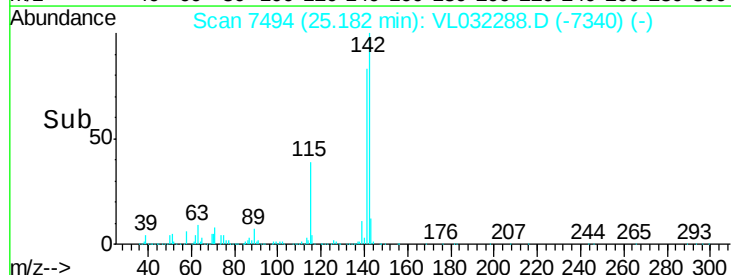
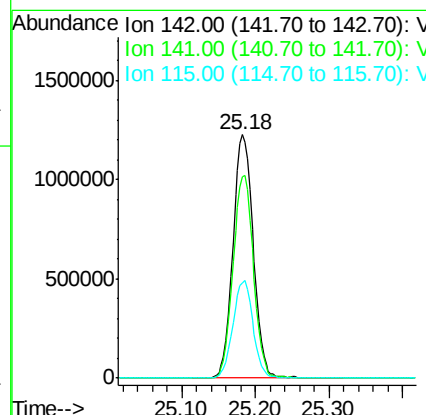
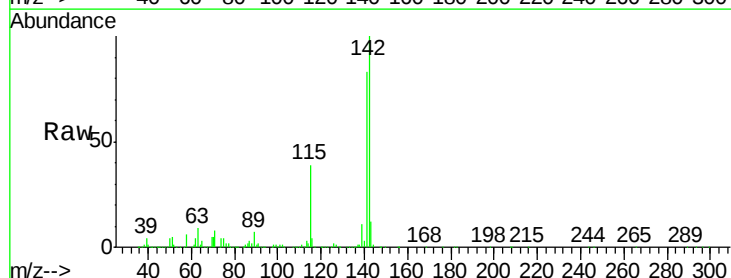
Manual Integrations
APPROVED

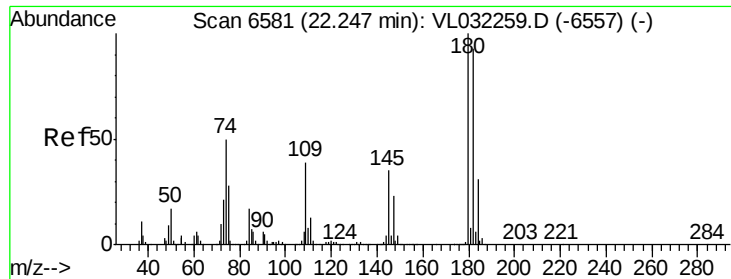
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#80
Naphthalene, 2-methyl-
Concen: 10.89 ppbv
RT: 25.18 min Scan# 7494
Delta R.T. -0.01 min
Lab File: VL032288.D
Acq: 19 Jul 2018 9:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.8	67.1	100.7
115	39.8	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 9.79 ppbv
 RT: 22.24 min Scan# 6579
 Delta R.T. -0.01 min
 Lab File: VL032288.D
 Acq: 19 Jul 2018 9:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
184	30.4	24.4	36.6

Manual Integrations
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