

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032953.D
 Acq On : 11 Dec 2018 12:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:36 AM

Quant Time: Dec 12 16:06:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1229024	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3273254	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3349865	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2586230	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1794667	10.938	ppbv	99
3) Chlorodifluoromethane	3.02	51	971090	10.433	ppbv	100
4) Chloromethane	3.17	50	528525	9.753	ppbv	97
5) Vinyl Chloride	3.29	62	552991	10.029	ppbv	98
6) Bromomethane	3.52	94	356911	10.350	ppbv	98
7) Chloroethane	3.61	64	208782	10.565	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1408828	10.333	ppbv	100
9) Propene	3.04	41	382925	10.404	ppbv	99
10) Heptane	8.25	43	1704471	12.329	ppbv	100
11) Trichlorofluoromethane	4.01	101	1568747	10.148	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1455414	11.036	ppbv	98
13) Ethanol	3.65	45	89093m	7.031	ppbv	
14) Bromoethene	3.79	108	454632	10.383	ppbv	100
15) Acetone	3.90	43	968820	9.184	ppbv	99
16) 1,3-Butadiene	3.36	39	451734	10.793	ppbv	95
17) tert-Butyl alcohol	4.36	59	319430	11.893	ppbv #	81
18) 1,1-Dichloroethene	4.35	96	614190	11.891	ppbv	98
19) Isopropyl Alcohol	4.03	45	648936	9.796	ppbv	100
20) Methylene Chloride	4.41	84	536123	10.398	ppbv #	93
21) Allyl Chloride	4.48	41	976747	11.362	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	608628	9.494	ppbv	96
23) Vinyl Acetate	5.16	43	1870390	10.472	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1488070	9.581	ppbv	99
25) Ethyl Acetate	5.78	43	2533045	10.165	ppbv	100
26) Hexane	5.79	57	1168925	10.160	ppbv	99
27) Carbon Disulfide	4.62	76	1671355	11.619	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1843668	10.670	ppbv	99
29) Chloroform	5.86	83	2224793	10.838	ppbv	96
30) Cyclohexane	7.25	84	1058160	11.097	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1212171	11.481	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2231186	10.272	ppbv	100
34) 2-Butanone	5.34	43	1409396	9.885	ppbv	100
35) Carbon Tetrachloride	7.14	117	2405859	9.351	ppbv	99
36) Benzene	7.01	78	2482294	10.310	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1578803	9.632	ppbv	100
38) Trichloroethene	7.97	130	1065764	10.637	ppbv	96
39) 1,2-Dichloropropane	7.75	63	955960	10.470	ppbv	94
40) 1,4-Dioxane	7.96	88	353512	10.511	ppbv #	34
41) Tetrahydrofuran	6.16	42	912964	10.296	ppbv	99
42) Bromodichloromethane	7.93	83	2368472	10.429	ppbv	100
43) Methyl Methacrylate	8.15	69	1025533	11.496	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4386829	10.734	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1393372	12.739	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1572843	11.748	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1071804	10.665	ppbv	99
48) Dibromochloromethane	10.46	129	2051015	10.879	ppbv	100
49) Bromoform	13.21	173	1741331	11.230	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2397920	10.517	ppbv	99
51) 2-Hexanone	10.28	43	1895496	12.259	ppbv #	100
52) Tetrachloroethene	11.38	164	962978	10.996	ppbv	98
53) Toluene	9.96	91	3235494	12.671	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1683039	10.720	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1439531	9.639	ppbv	99
57) Chlorobenzene	12.31	112	2302524	9.517	ppbv	97
58) Ethyl Benzene	12.87	91	4122219	11.535	ppbv	99
59) m/p-Xylene	13.15	91	7043360m	21.740	ppbv	
60) o-Xylene	13.86	91	3639630	11.124	ppbv	100
61) Styrene	13.69	104	2645753	12.156	ppbv	99
62) Isopropylbenzene	14.84	105	5287741	11.584	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2500319	9.842	ppbv	100
64) n-propylbenzene	15.73	120	1240752	10.465	ppbv	99
65) tert-Butylbenzene	16.92	119	4581949	10.827	ppbv	99
66) Benzyl Chloride	17.16	91	2544698	10.849	ppbv	100
67) sec-Butylbenzene	17.47	105	5975048	9.576	ppbv	100
69) p-Isopropyltoluene	17.82	119	4987678	9.864	ppbv	99
70) n-Butylbenzene	18.72	91	5105928	10.976	ppbv	100
71) 2-Chlorotoluene	15.63	91	3604753	10.619	ppbv	99
72) 4-Ethyltoluene	16.01	105	3962814	10.849	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4018779	11.270	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4185955	10.396	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2200137	9.279	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2133252	9.642	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2121017	9.579	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1382929	11.356	ppbv	99
79) Naphthalene	22.42	128	2987608	11.491	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	903881	16.272	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1477918	10.719	ppbv	99

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

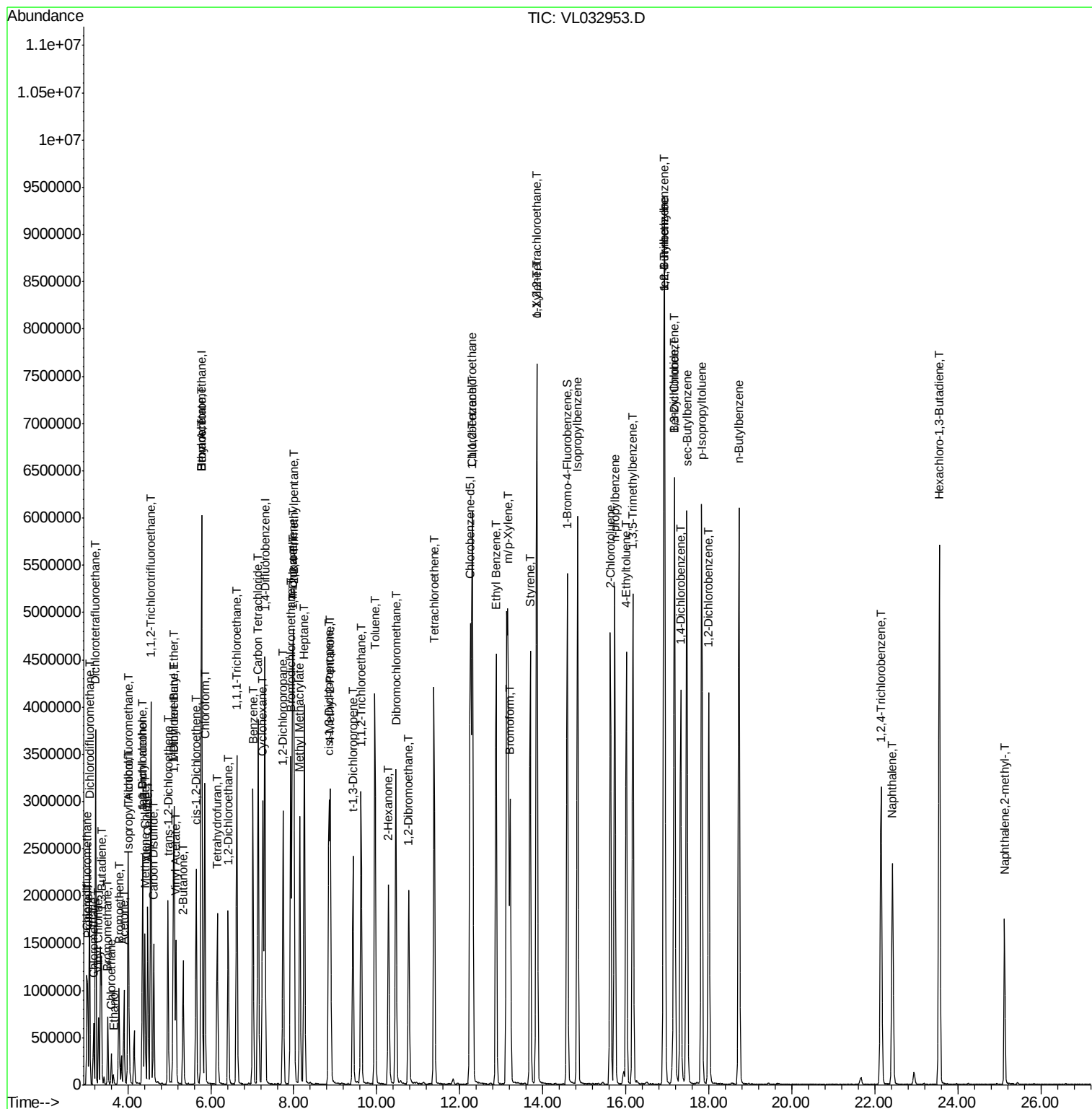
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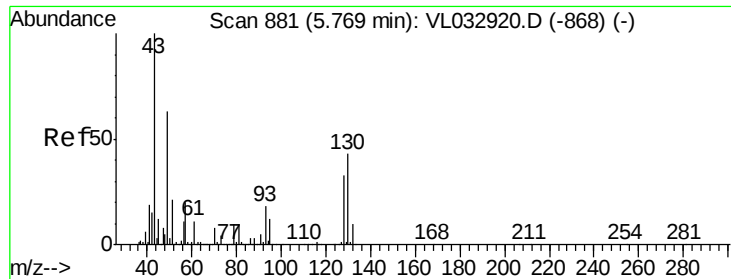
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1229024

Ion Ratio Lower Upper

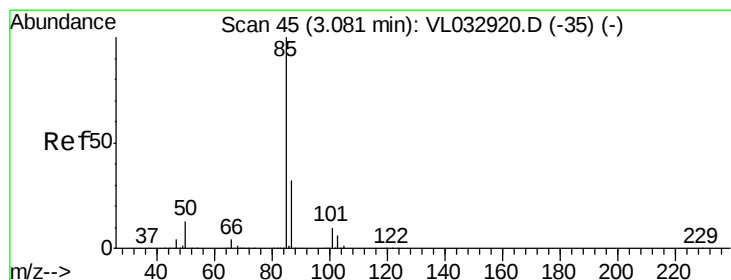
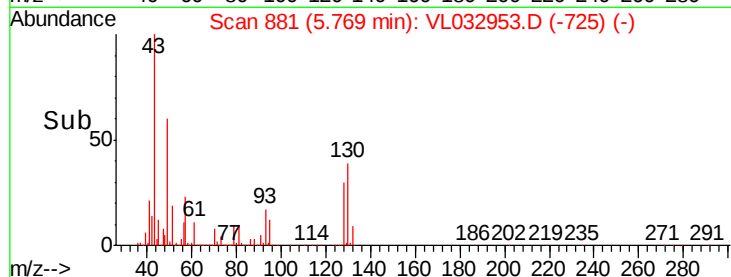
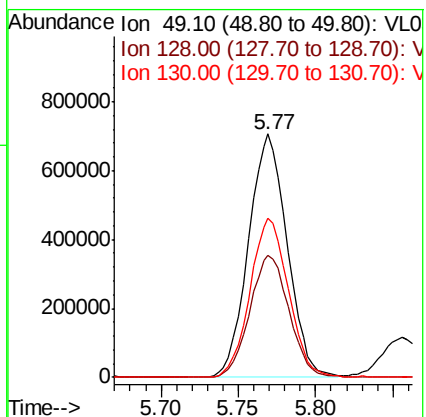
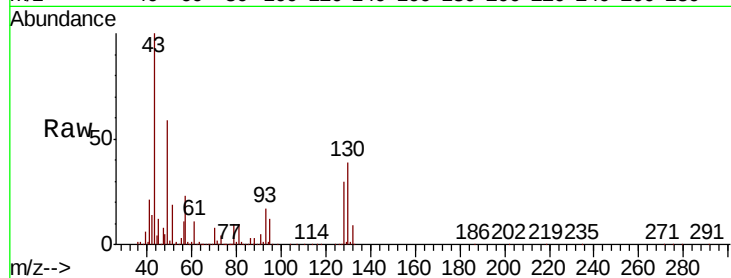
49 100

128 51.1 26.3 78.8

130 65.3 33.9 101.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 10.938 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032953.D

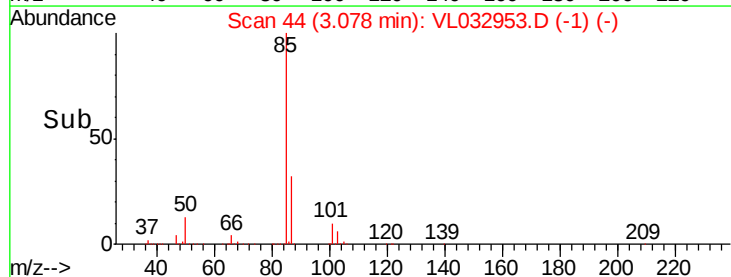
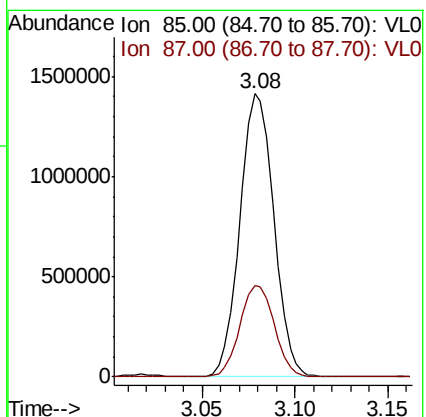
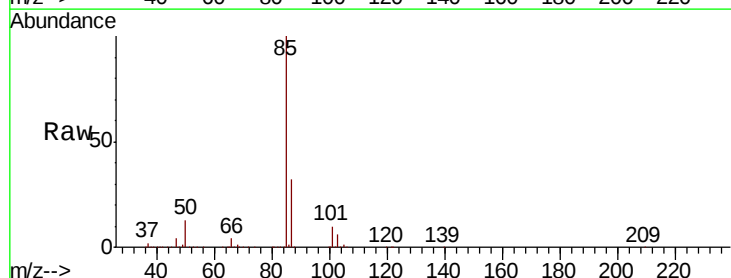
Acq: 11 Dec 2018 12:51

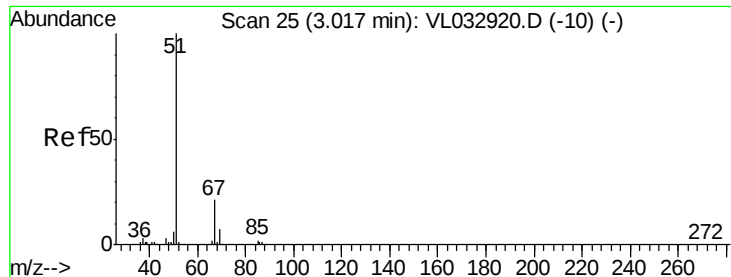
Tgt Ion: 85 Resp: 1794667

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5





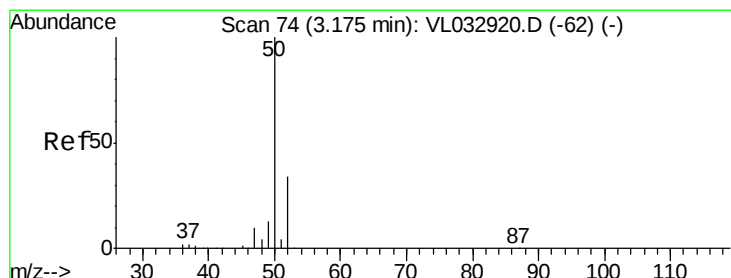
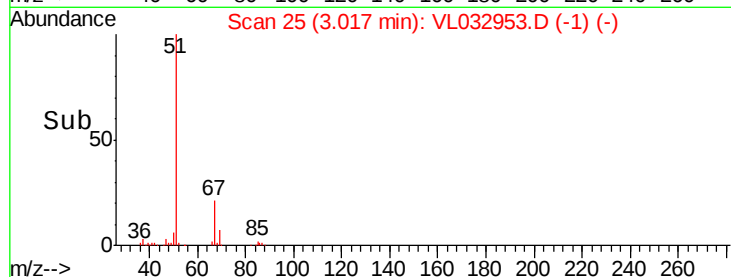
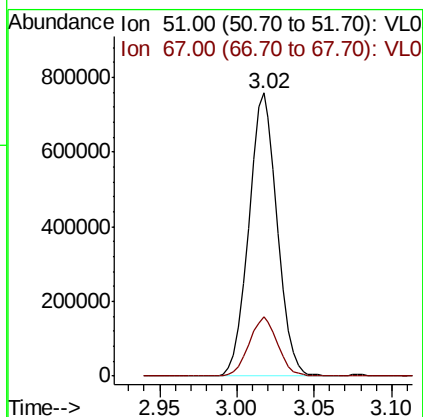
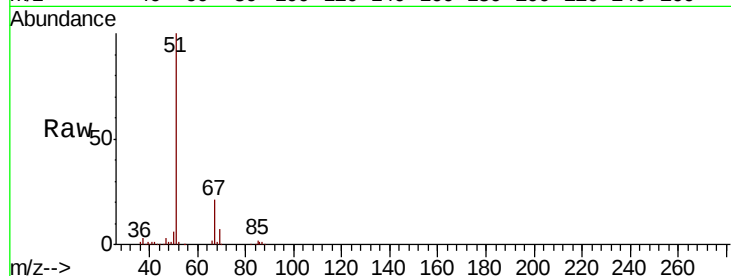
#3
Chlorodifluoromethane
Concen: 10.433 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 971090
Ion Ratio Lower Upper
51 100
67 21.0 16.8 25.2

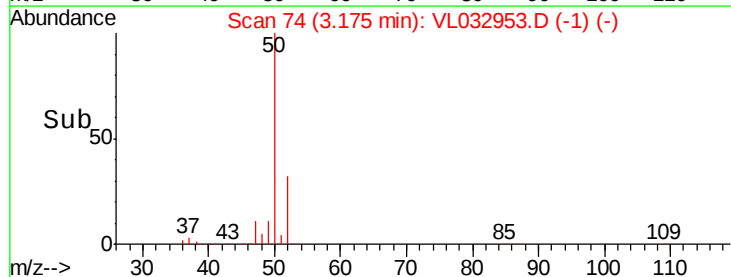
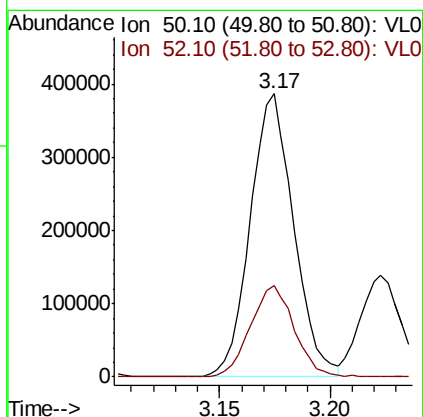
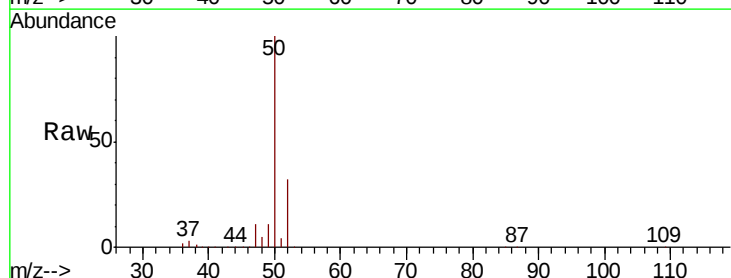
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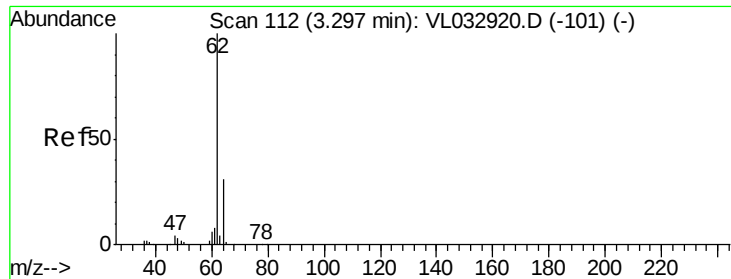
MMDadoda
12/13/2018 7:58:36 AM



#4
Chloromethane
Concen: 9.753 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion: 50 Resp: 528525
Ion Ratio Lower Upper
50 100
52 32.3 27.3 40.9





#5

Vinyl Chloride

Concen: 10.029 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 552991

Ion Ratio Lower Upper

62 100

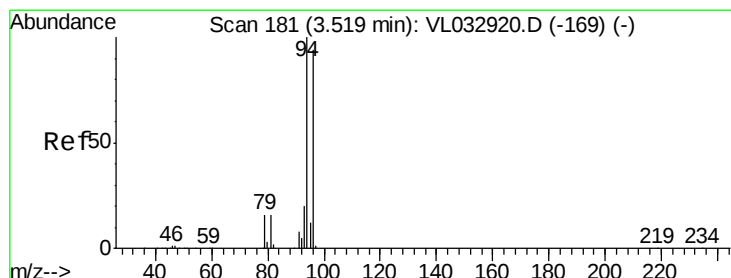
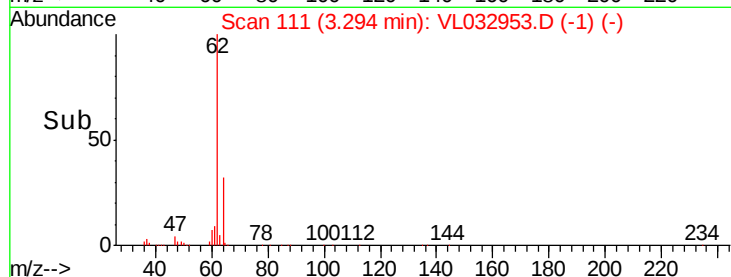
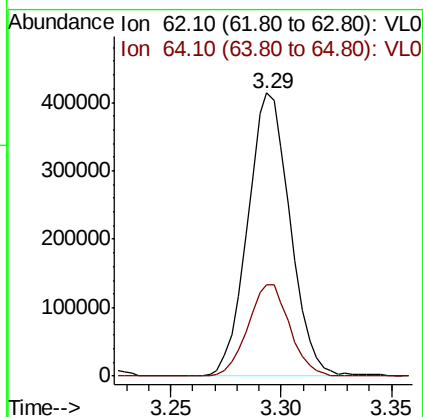
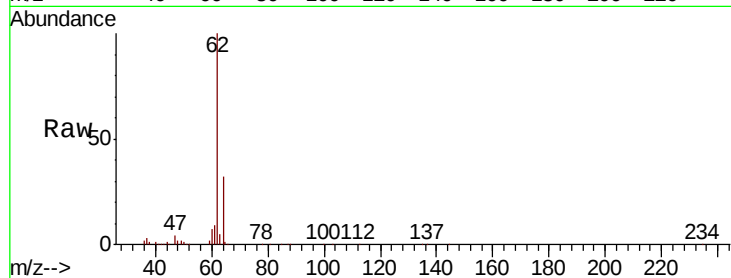
64 32.3 24.8 37.2

Manual Integrations

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#6

Bromomethane

Concen: 10.350 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032953.D

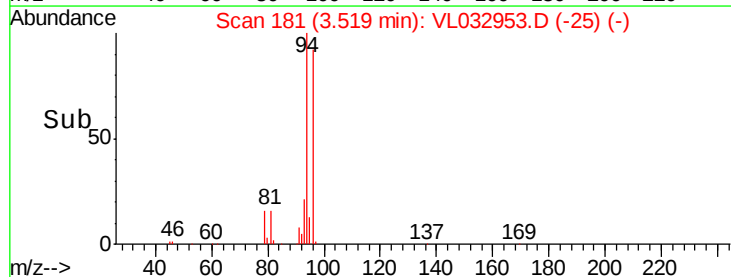
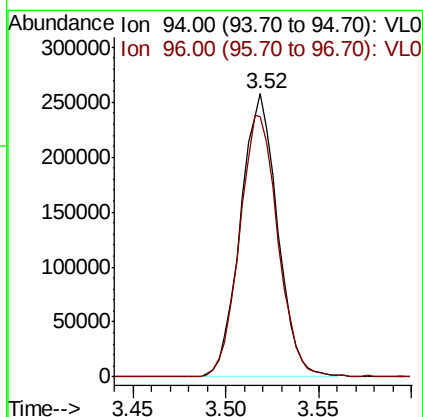
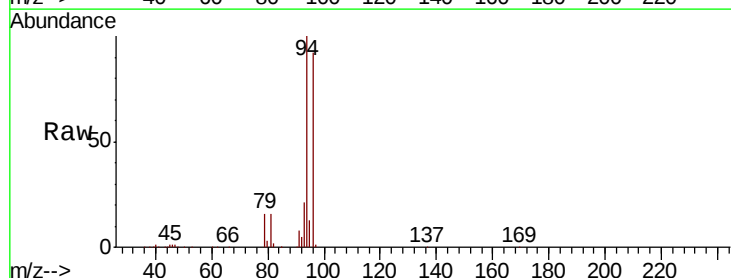
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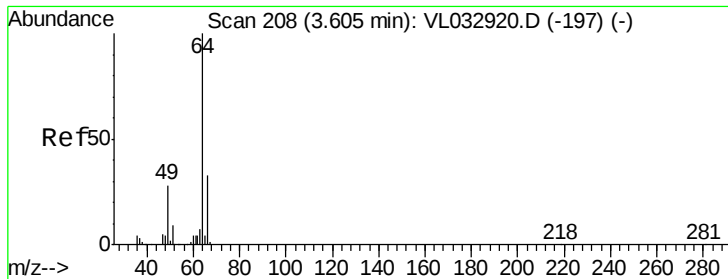
Tgt Ion: 94 Resp: 356911

Ion Ratio Lower Upper

94 100

96 92.2 75.5 113.3





#7

Chloroethane

Concen: 10.565 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

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Tot Ion: 64 Resp: 208782

Ion Ratio Lower Upper

64 100

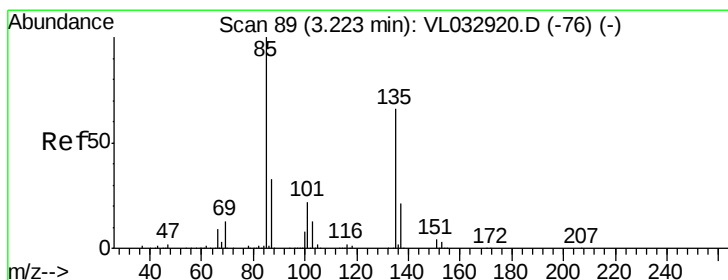
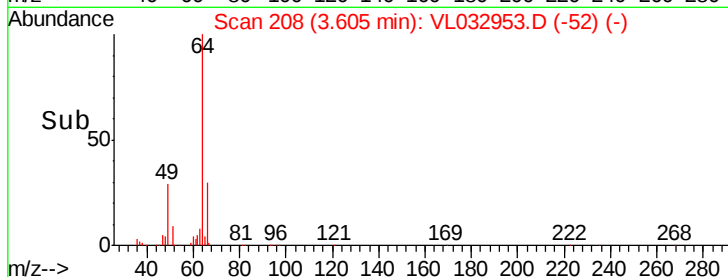
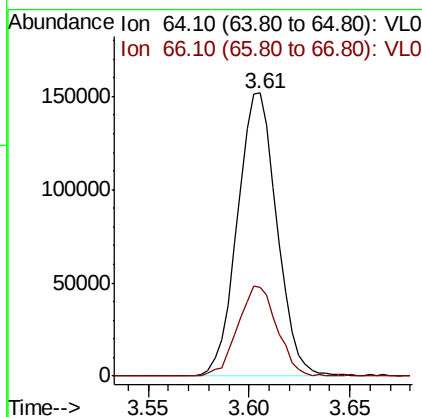
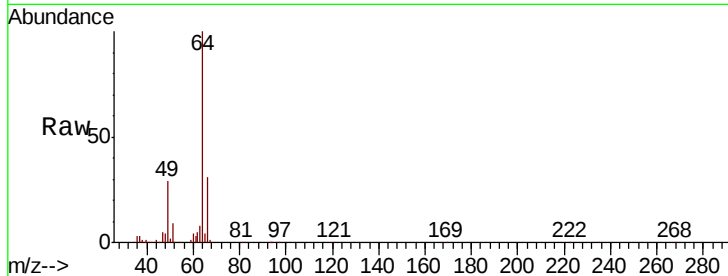
66 31.2 26.6 40.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.333 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032953.D

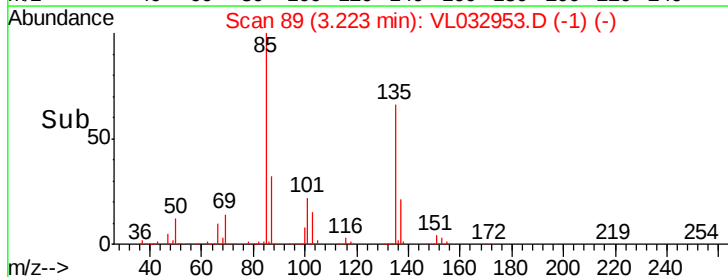
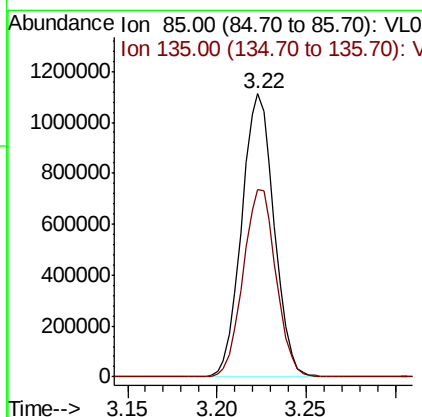
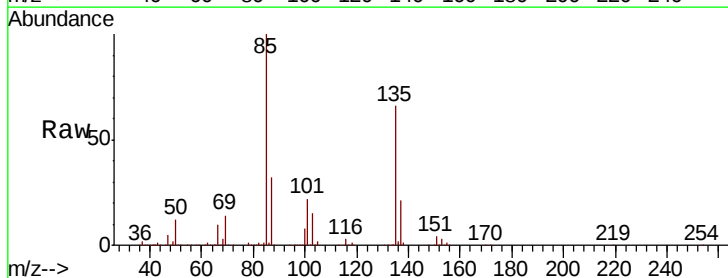
Acq: 11 Dec 2018 12:51

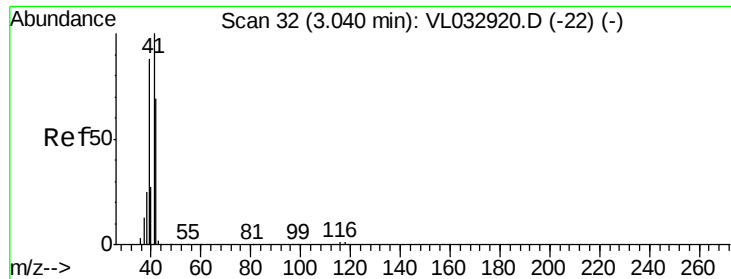
Tgt Ion: 85 Resp: 1408828

Ion Ratio Lower Upper

85 100

135 67.8 54.5 81.7





#9

Propene

Concen: 10.404 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 382925

Ion Ratio Lower Upper

41 100

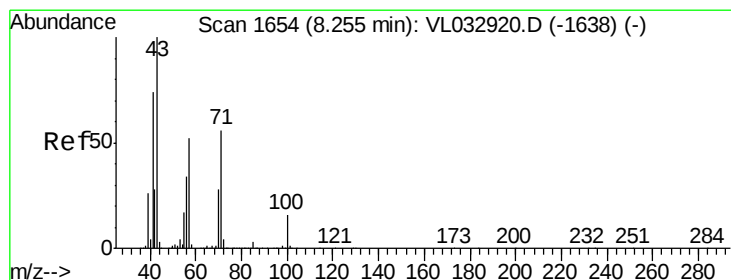
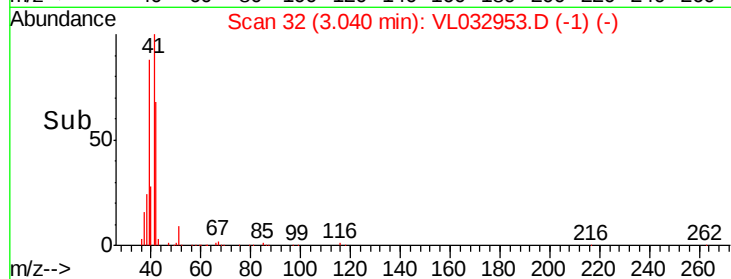
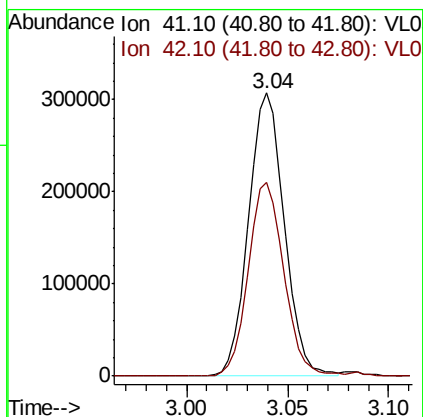
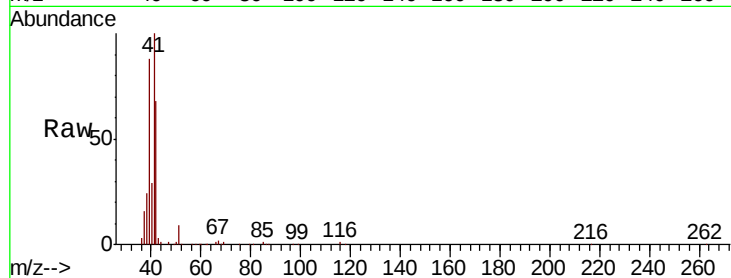
42 69.2 56.2 84.2

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#10

Heptane

Concen: 12.329 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032953.D

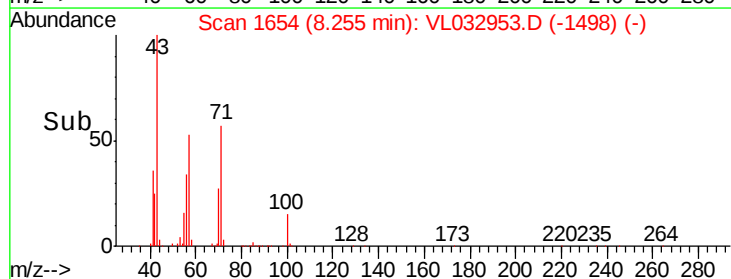
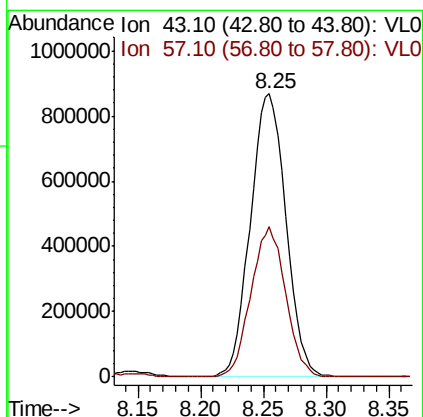
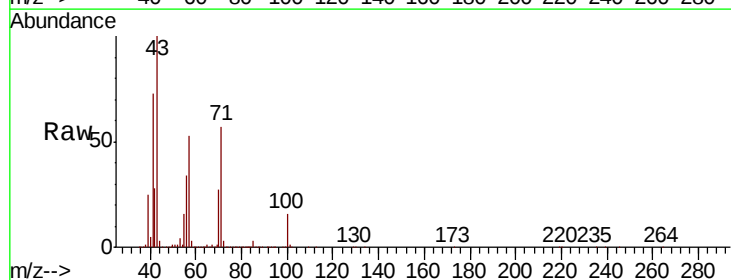
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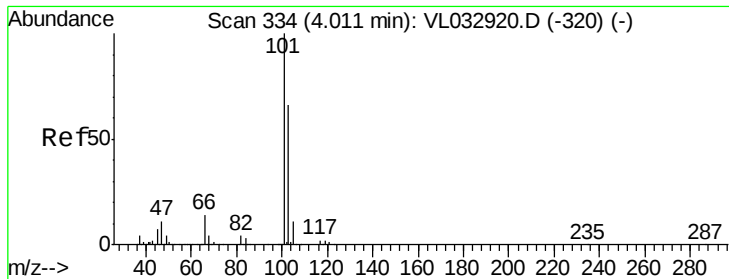
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Ion Ratio Lower Upper

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57 51.9 41.8 62.6





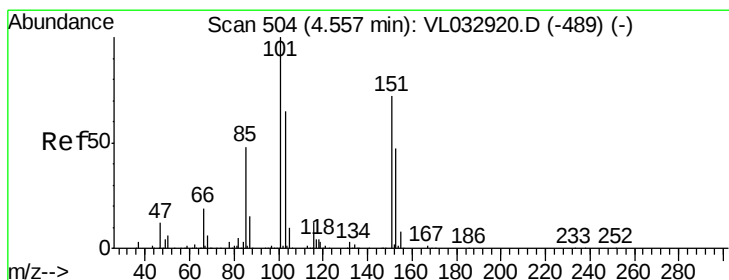
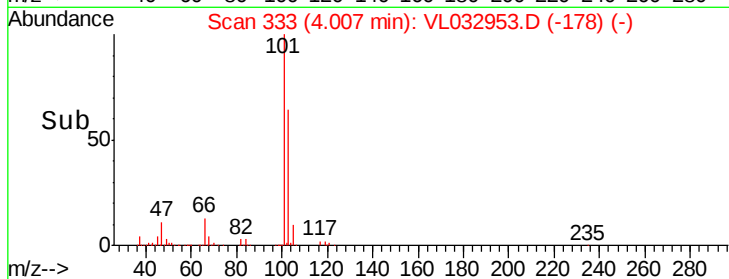
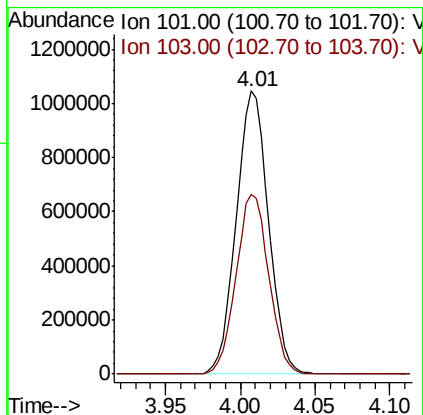
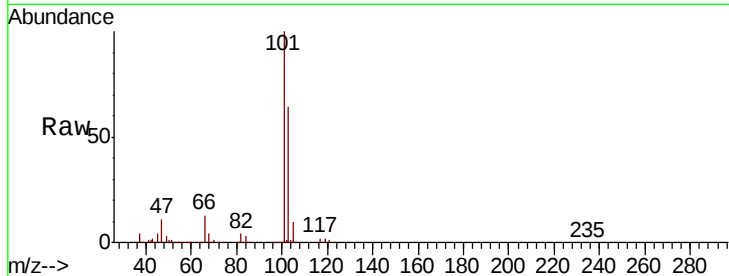
#11
 Trichlorofluoromethane
 Concen: 10.148 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1568747
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.7 79.1

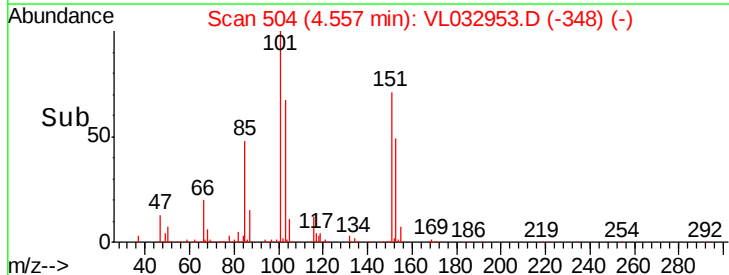
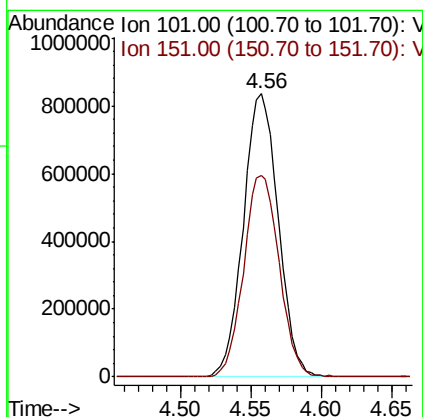
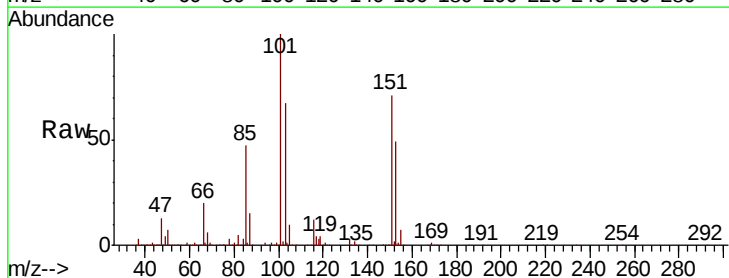
Manual Integrations
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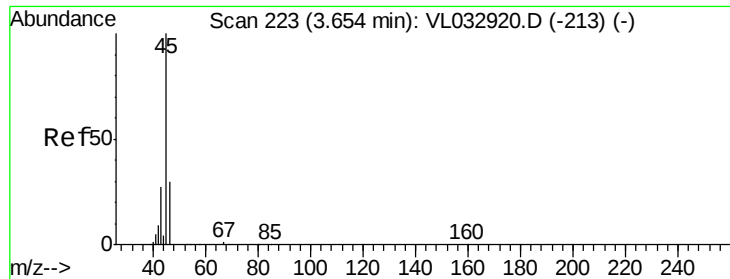
MMDadoda
 12/13/2018 7:58:36 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.036 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion:101 Resp: 1455414
 Ion Ratio Lower Upper
 101 100
 151 72.3 59.3 88.9





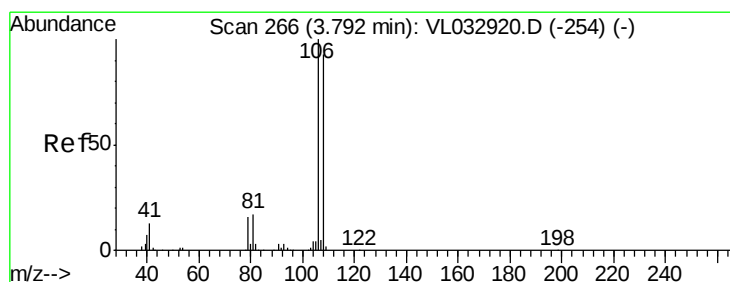
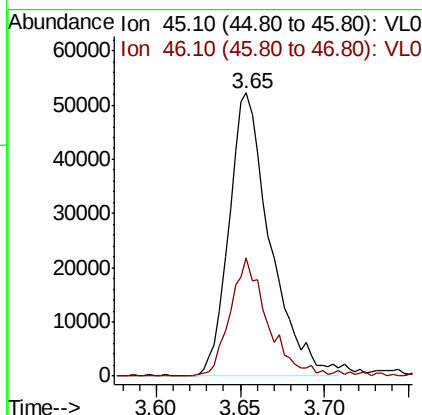
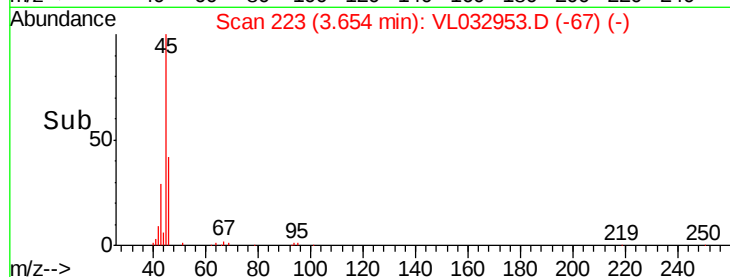
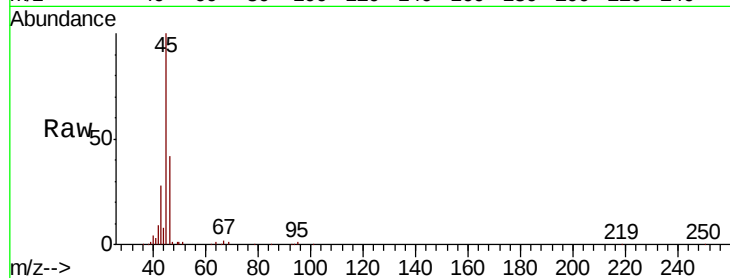
#13
Ethanol
Concen: 7.031 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 89093
Ion Ratio Lower Upper
45 100
46 38.0 13.8 55.4

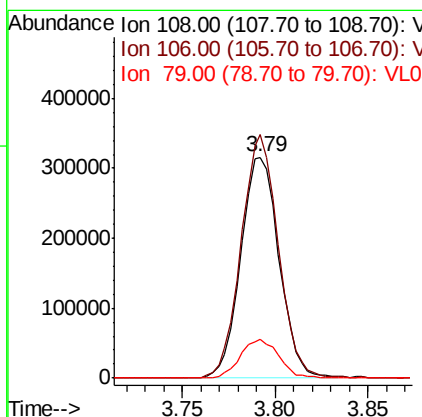
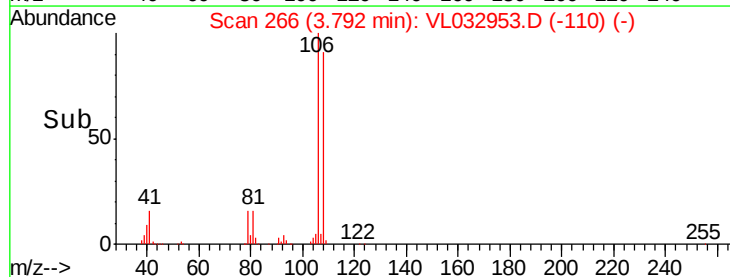
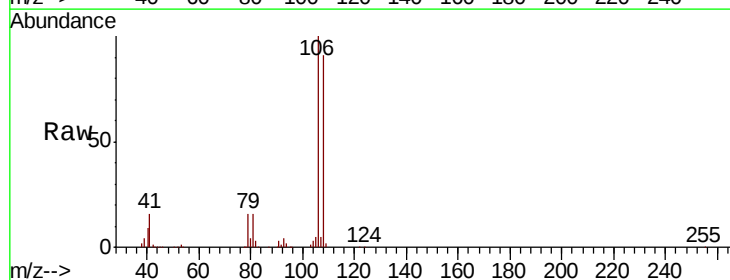
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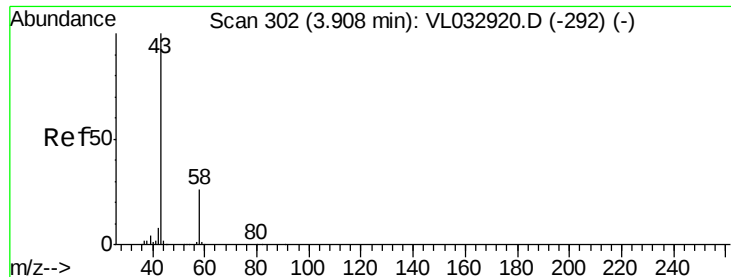
MMDadoda
12/13/2018 7:58:36 AM



#14
Bromoethene
Concen: 10.383 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion: 108 Resp: 454632
Ion Ratio Lower Upper
108 100
106 107.2 85.4 128.2
79 18.0 14.6 21.8





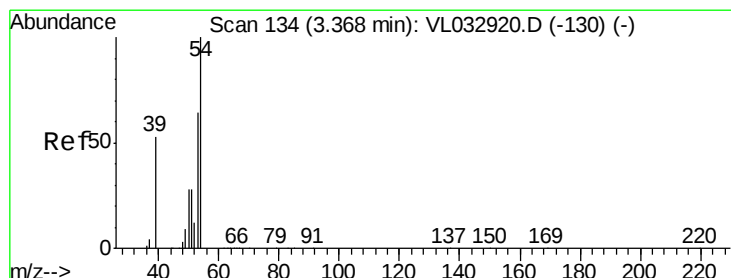
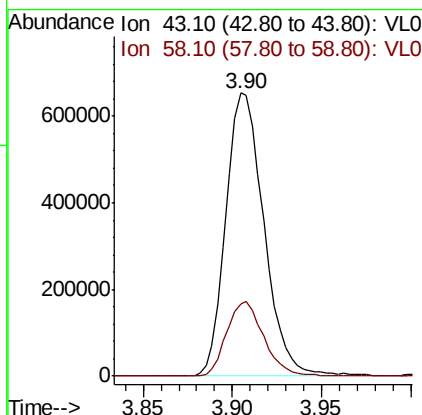
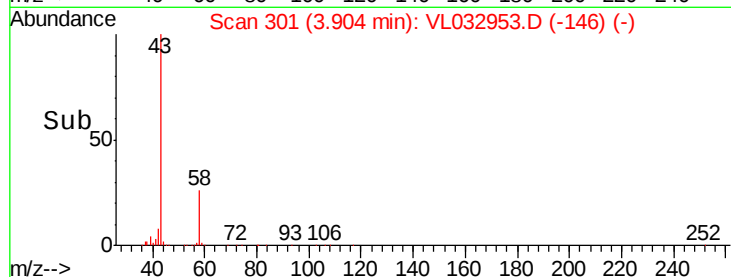
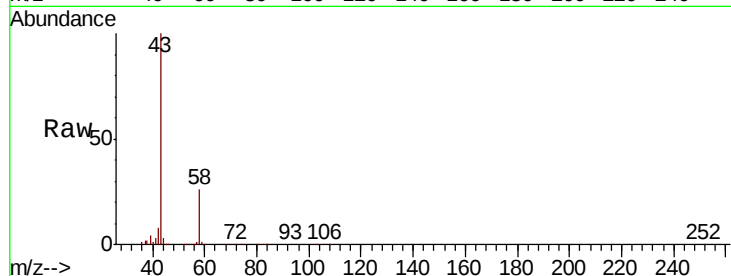
#15
Acetone
Concen: 9.184 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 968820
Ion Ratio Lower Upper
43 100
58 26.0 20.6 30.8

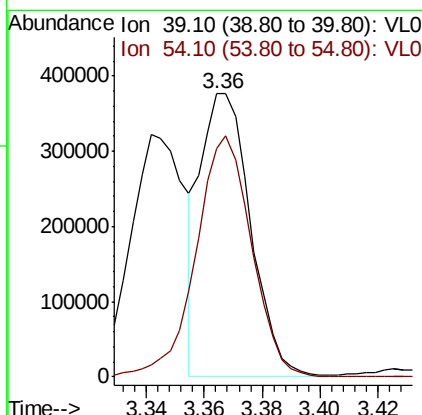
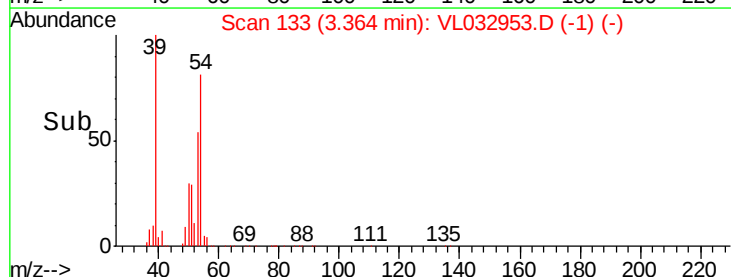
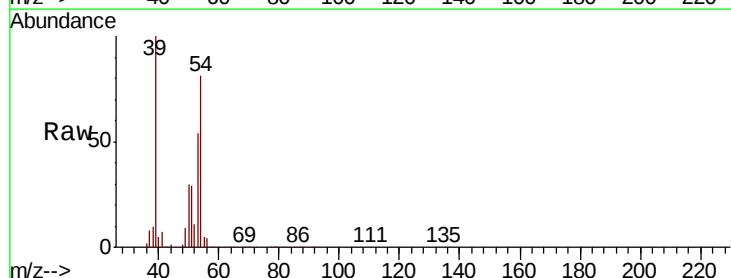
Manual Integrations
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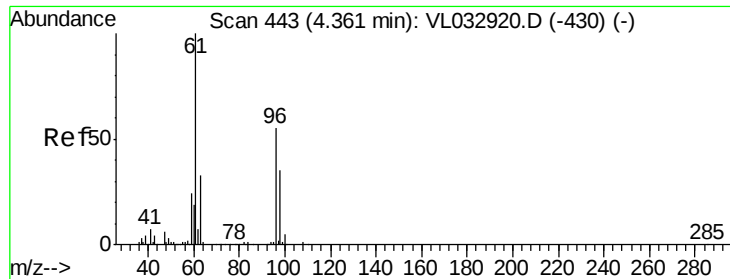
MMDadoda
12/13/2018 7:58:36 AM



#16
1,3-Butadiene
Concen: 10.793 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion: 39 Resp: 451734
Ion Ratio Lower Upper
39 100
54 95.3 72.7 109.1





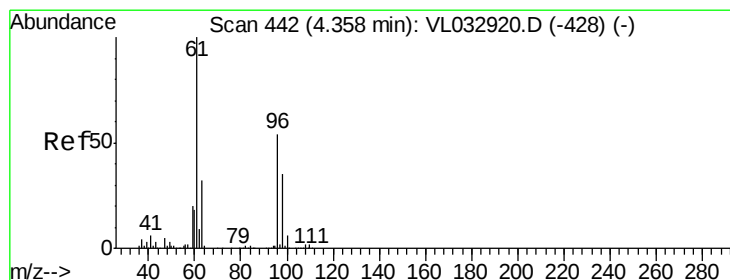
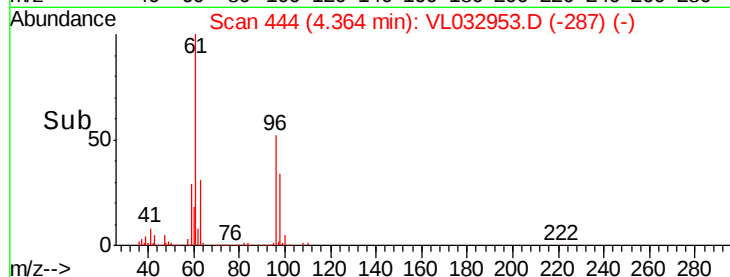
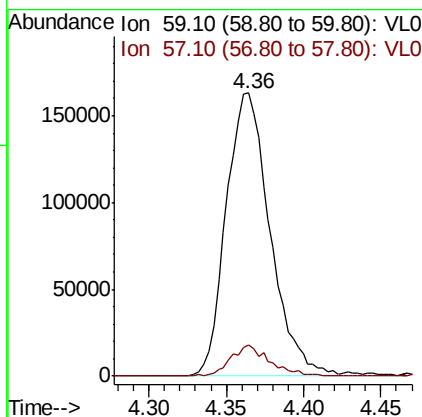
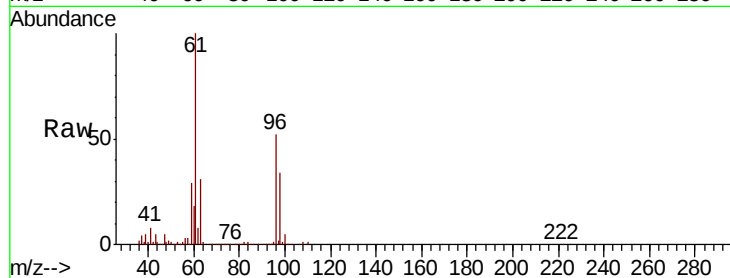
#17
tert-Butyl alcohol
Concen: 11.893 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	0.6	1.0#

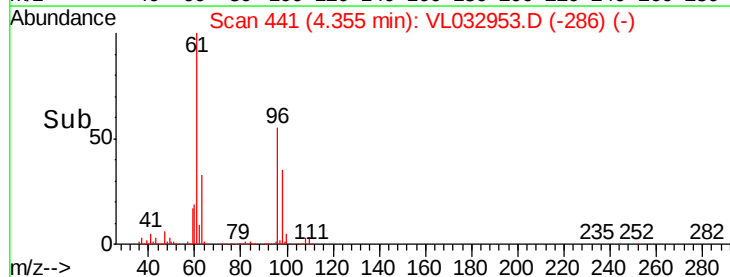
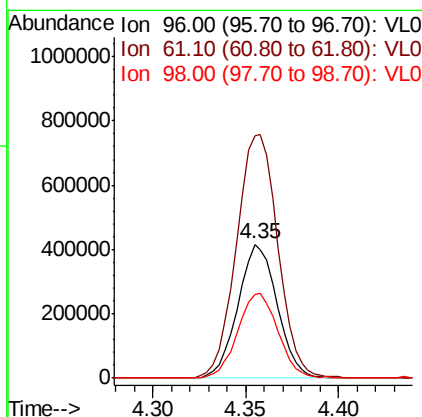
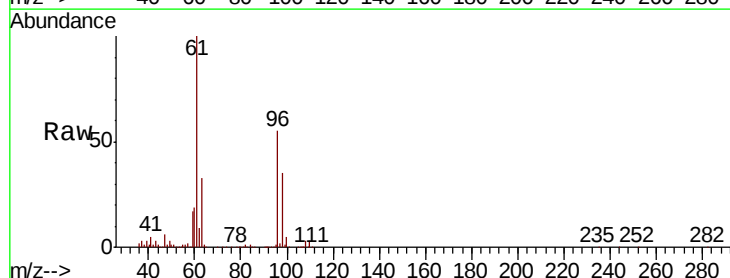
Manual Integrations
APPROVED

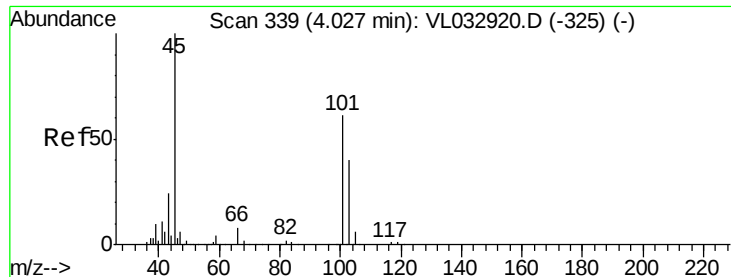
MMDadoda
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#18
1,1-Dichloroethene
Concen: 11.891 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.0	147.0	220.4
98	62.5	50.7	76.1





#19

Isopropyl Alcohol

Concen: 9.796 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 648936

Ion Ratio Lower Upper

45 100

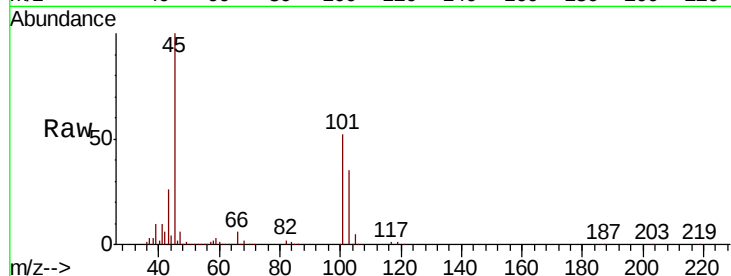
58 1.9 1.4 2.2

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

400000

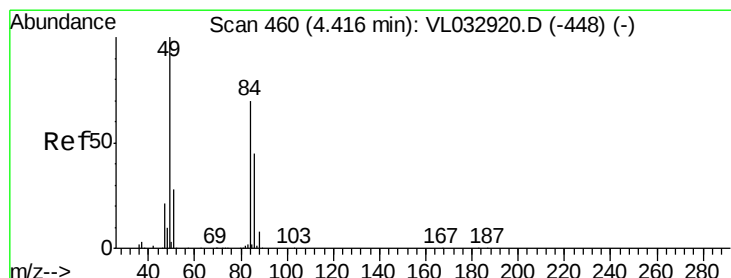
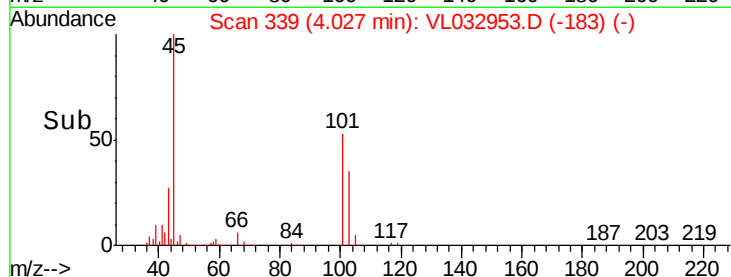
300000

200000

100000

0

Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 10.398 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Tgt Ion: 84 Resp: 536123

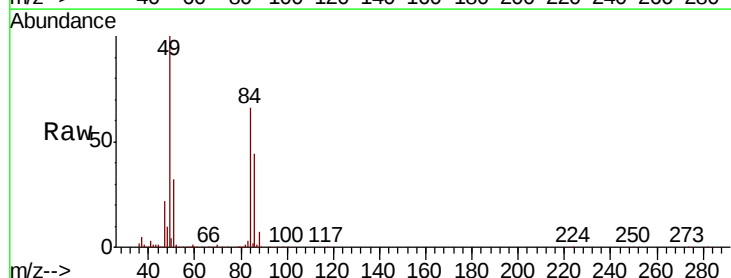
Ion Ratio Lower Upper

84 100

49 149.8 113.8 170.8

51 48.1 31.8 47.8#

86 66.4 50.8 76.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

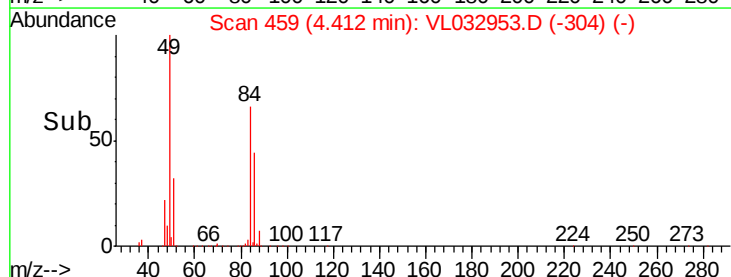
600000

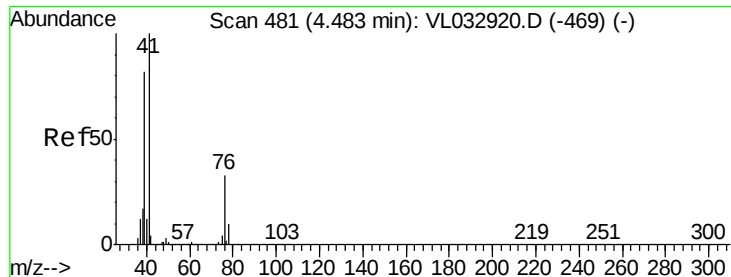
400000

200000

0

Time--> 4.35 4.40 4.45





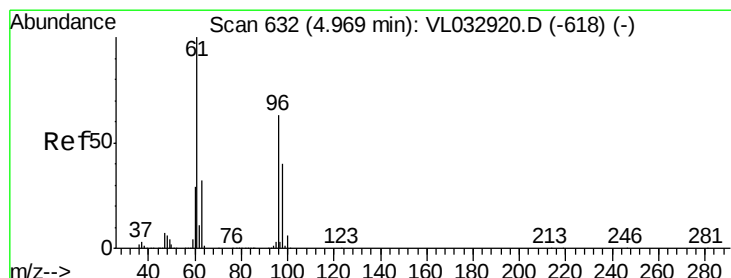
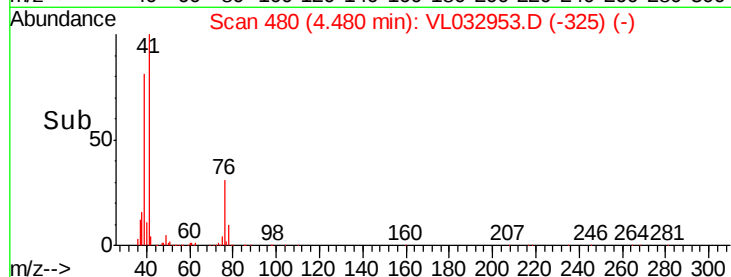
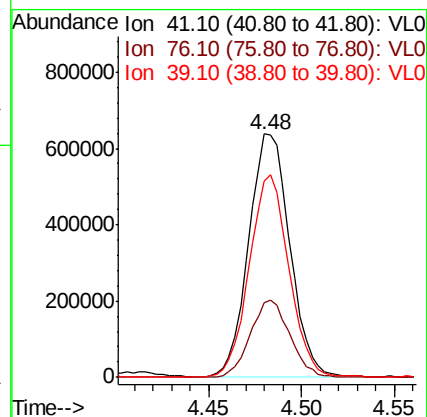
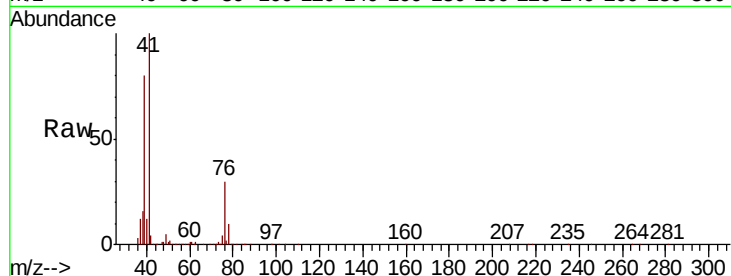
#21
Allvl Chloride
Concen: 11.362 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	25.2	37.8
39	80.7	65.2	97.8

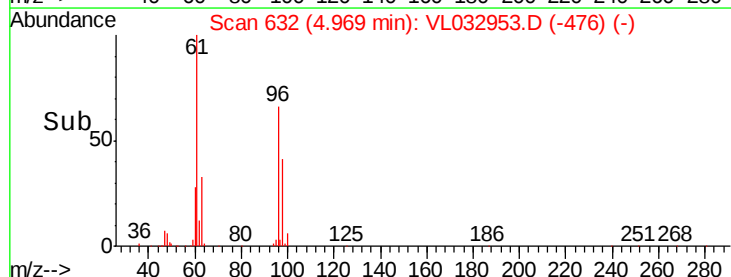
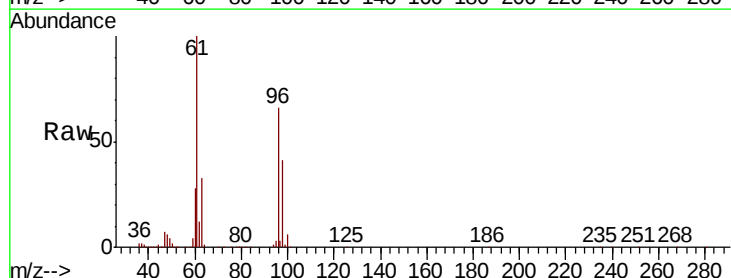
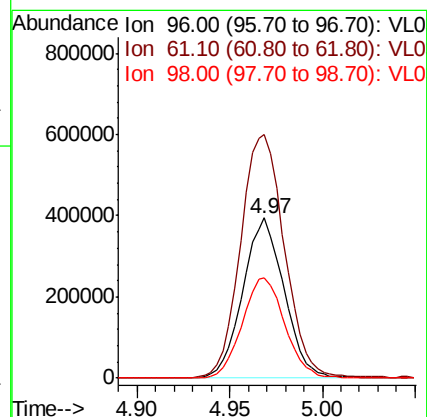
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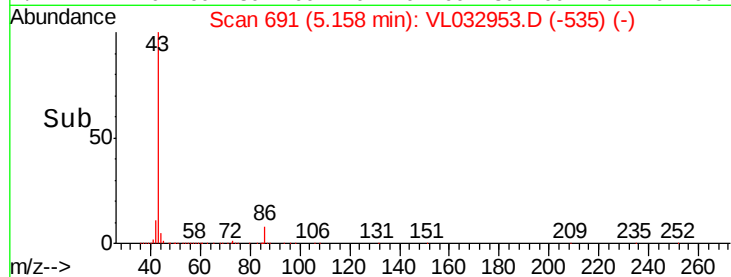
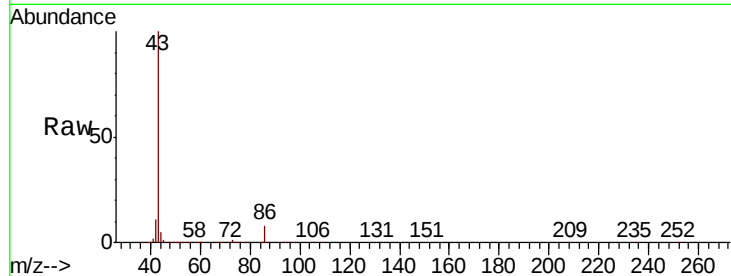
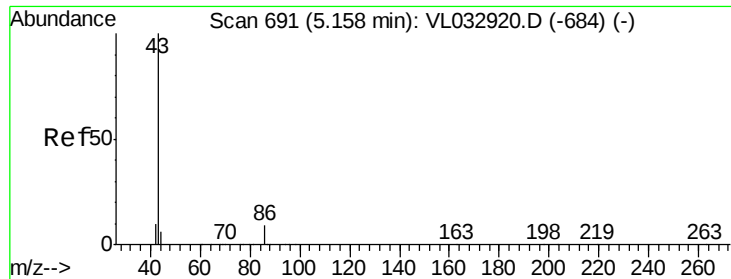
MMDadoda
12/13/2018 7:58:36 AM



#22
trans-1,2-Dichloroethene
Concen: 9.494 ppbv
RT: 4.97 min Scan# 632
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.9	127.1	190.7
98	62.3	51.3	76.9





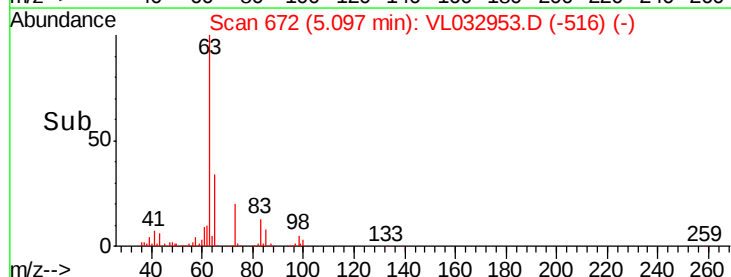
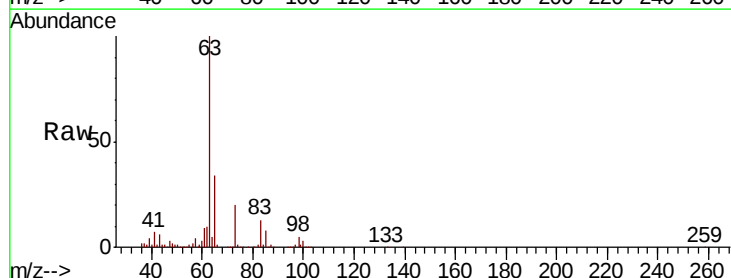
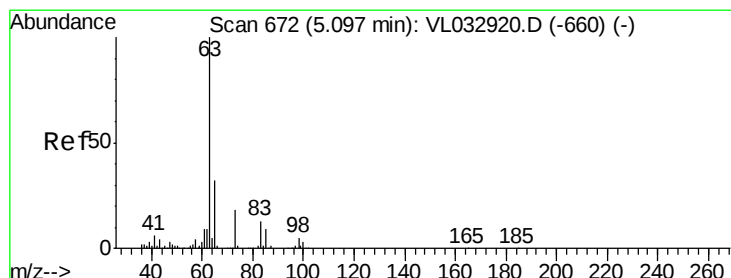
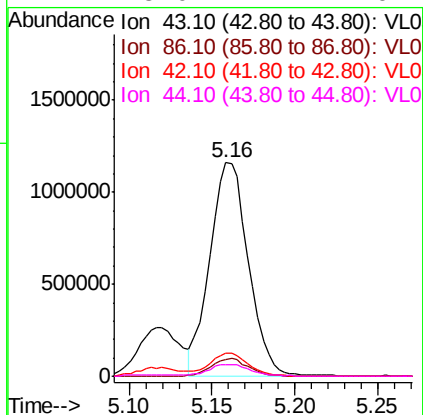
#23
 Vinyl Acetate
 Concen: 10.472 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. -0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tot Ion:	43	Resp:	1870390
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8
42	10.6	8.3	12.5
44	5.0	4.2	6.4

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

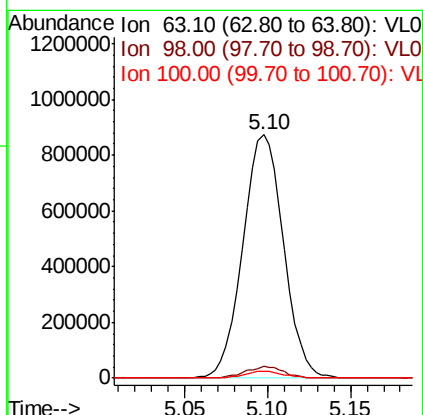
Manual Integrations
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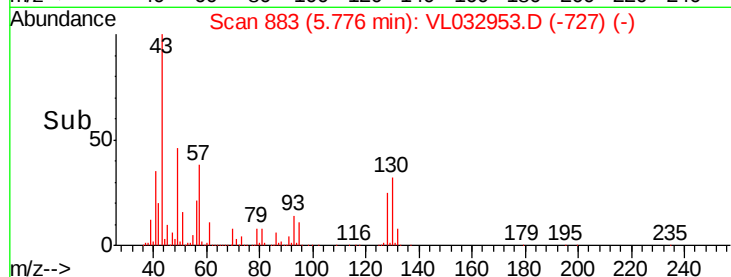
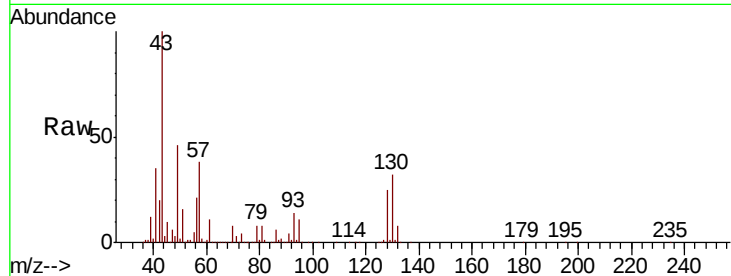
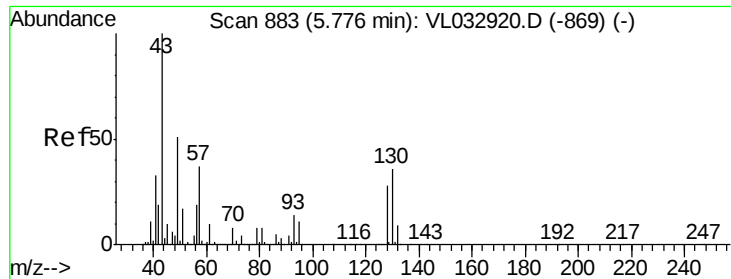
MMDadoda
 12/13/2018 7:58:36 AM



#24
 1,1-Dichloroethane
 Concen: 9.581 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion:	63	Resp:	1488070
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.5	7.5
100	2.9	1.4	4.2





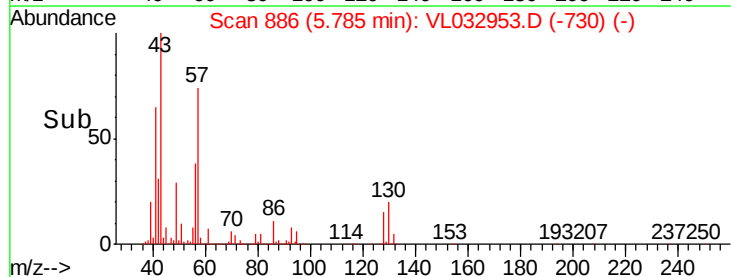
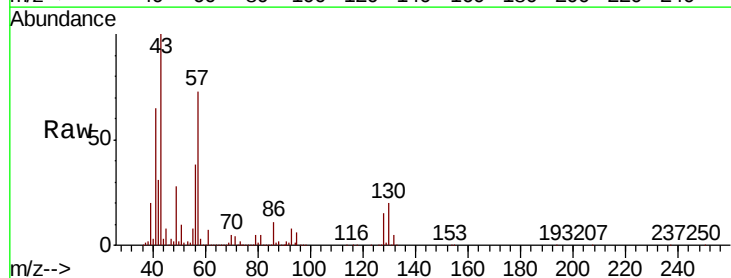
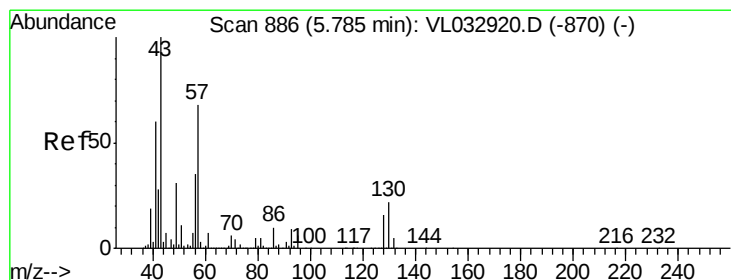
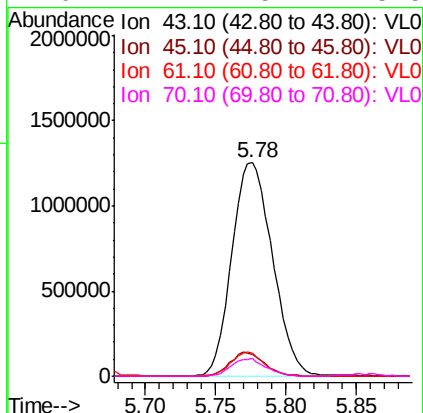
#25
Ethyl Acetate
Concen: 10.165 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tot Ion	43	Resp	2533045
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.6	7.4	11.2
70	7.1	5.7	8.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

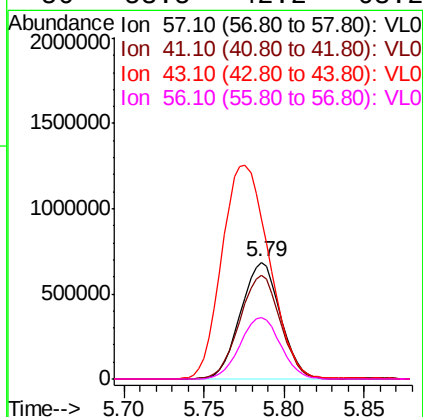
Manual Integrations
APPROVED

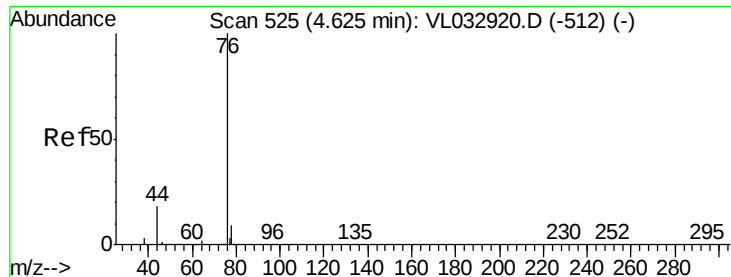
MMDadoda
12/13/2018 7:58:36 AM



#26
Hexane
Concen: 10.160 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	57	Resp	1168925
Ion	Ratio	Lower	Upper
57	100		
41	90.8	72.2	108.2
43	217.4	171.9	257.9
56	53.5	42.2	63.2





#27

Carbon Disulfide

Concen: 11.619 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1671355

Ion Ratio Lower Upper

76 100

44 18.4 14.7 22.1

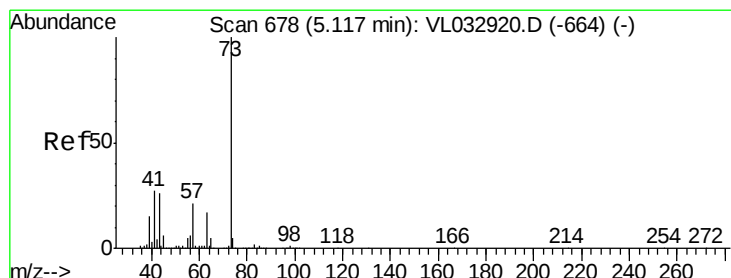
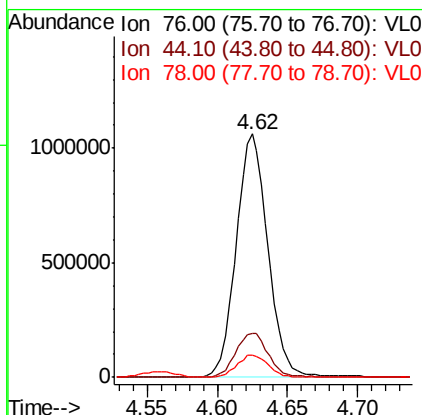
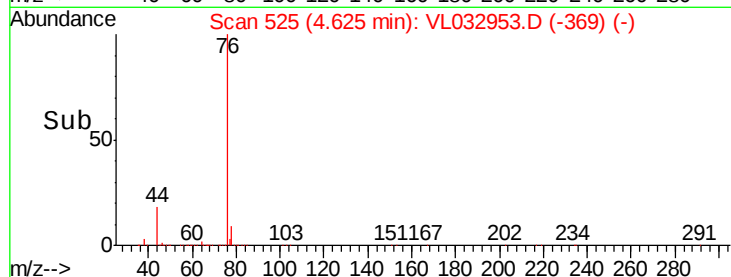
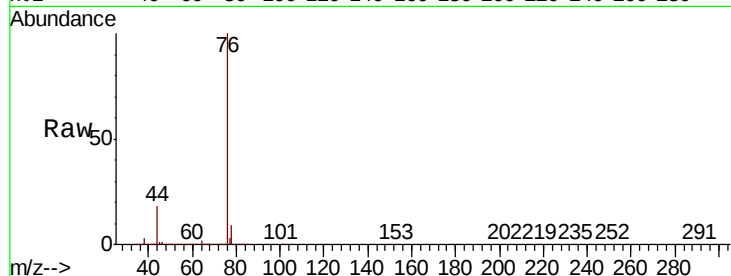
78 9.5 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 10.670 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032953.D

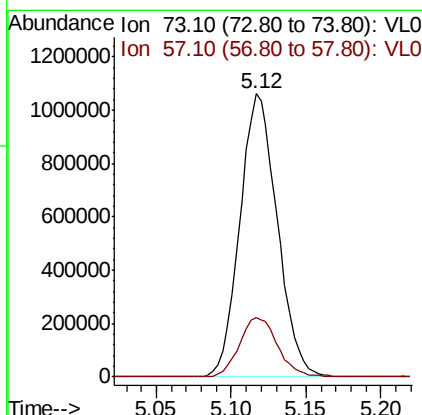
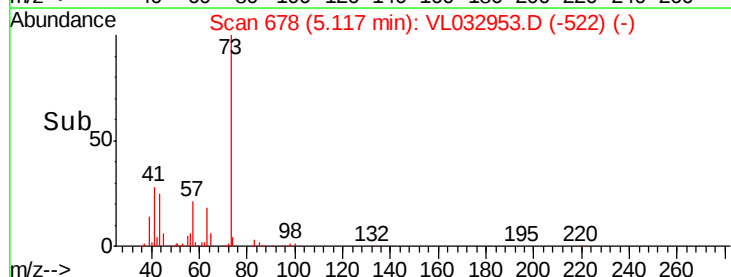
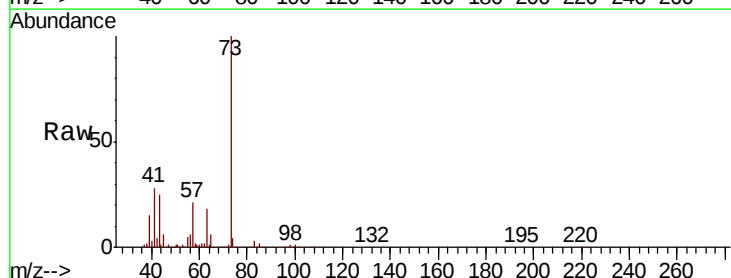
Acq: 11 Dec 2018 12:51

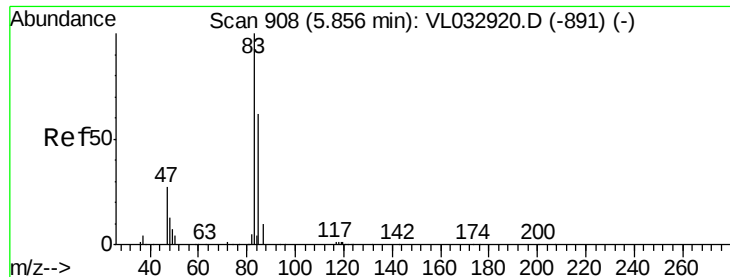
Tgt Ion: 73 Resp: 1843668

Ion Ratio Lower Upper

73 100

57 21.4 17.4 26.0





#29

Chloroform

Concen: 10.838 ppbv

RT: 5.86 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2224793

Ion Ratio Lower Upper

83 100

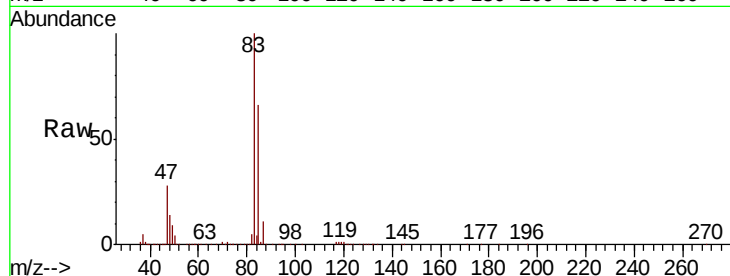
85 65.7 49.8 74.8

Manual Integrations

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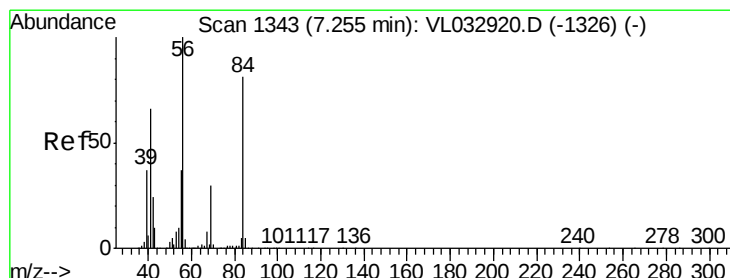
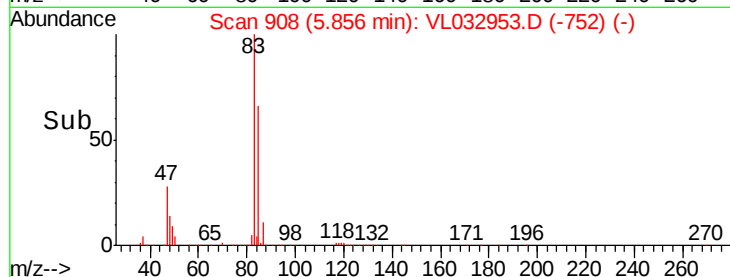
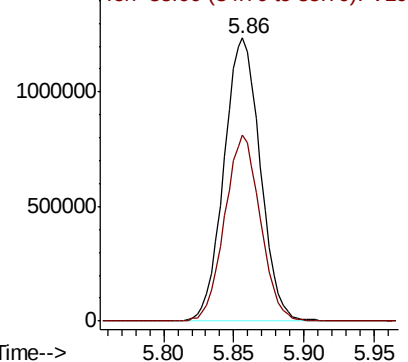
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 11.097 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

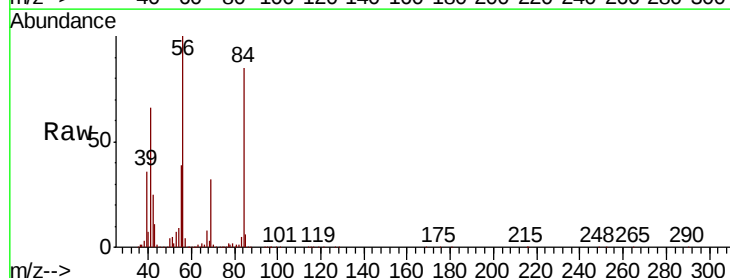
Tgt Ion: 84 Resp: 1058160

Ion Ratio Lower Upper

84 100

56 129.2 102.5 153.7

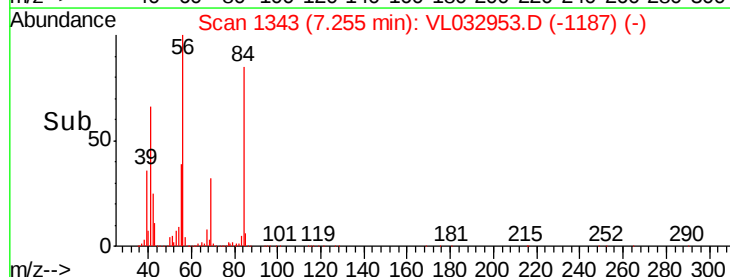
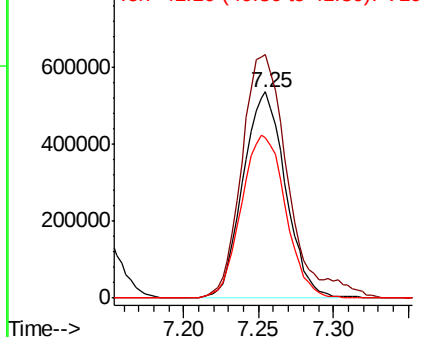
41 82.0 64.1 96.1

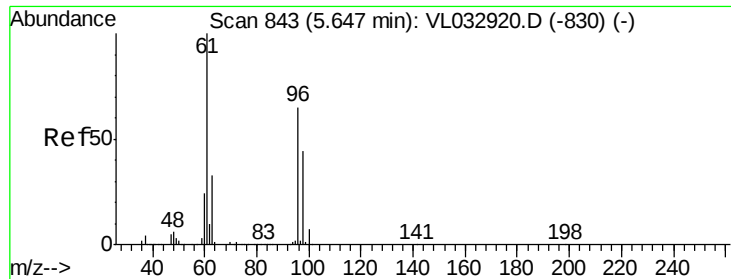


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

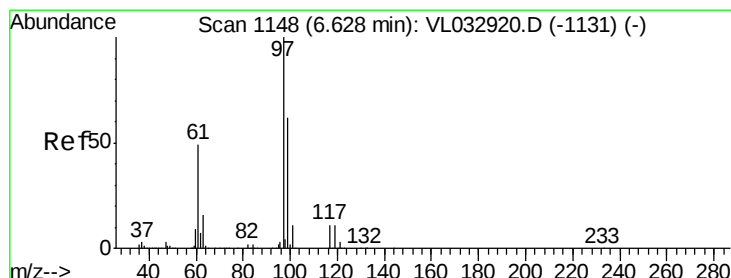
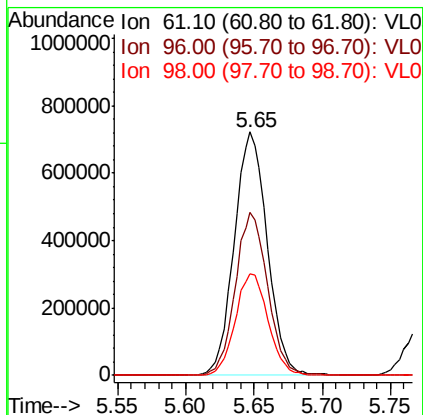
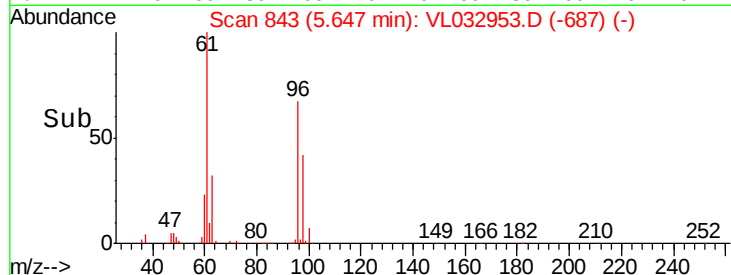
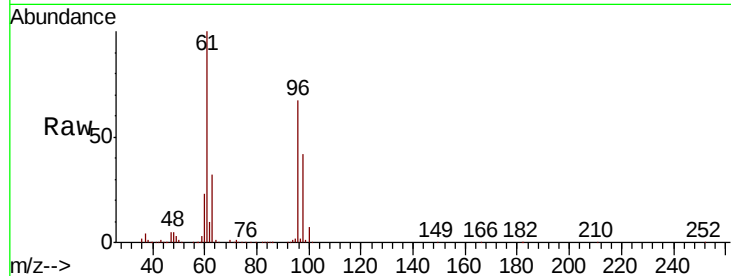
cis-1,2-Dichloroethene
Concen: 11.481 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.9	51.9	77.9
98	41.5	35.0	52.4

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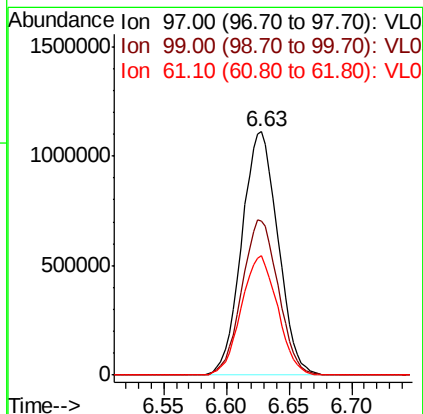
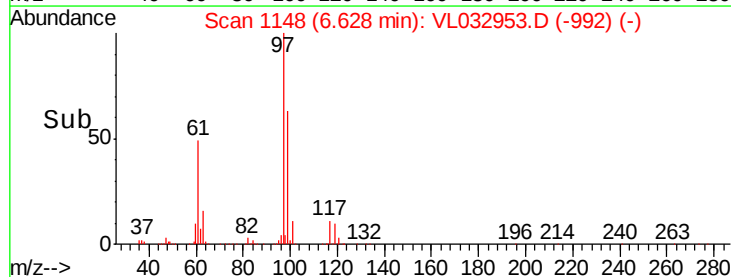
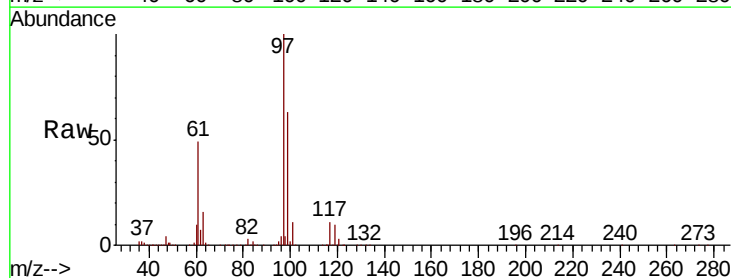
MMDadoda
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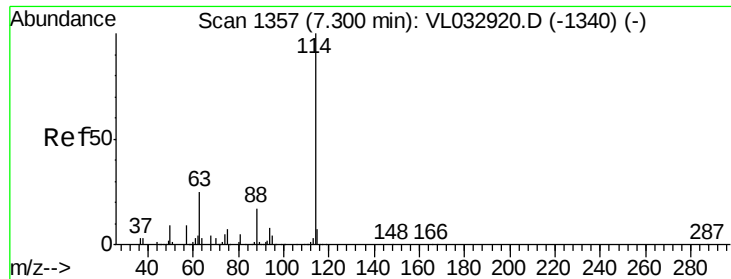


#32

1,1,1-Trichloroethane
Concen: 10.272 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	49.1	39.3	58.9





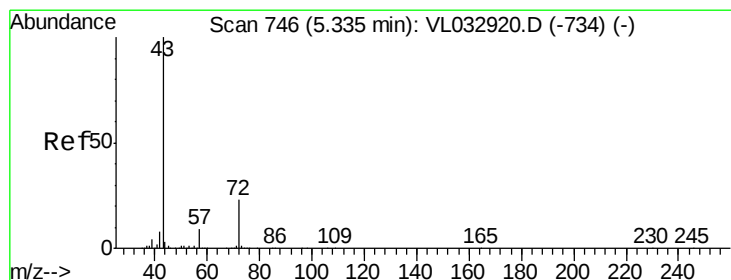
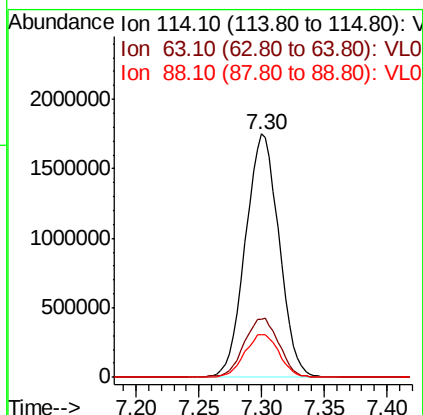
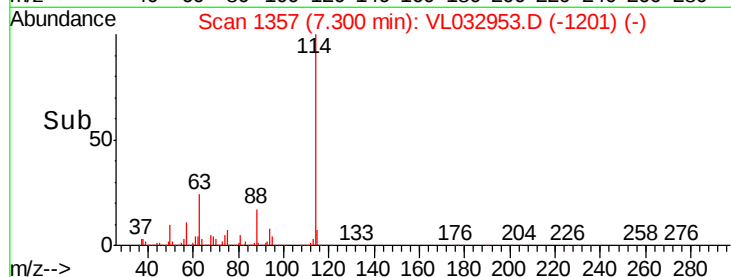
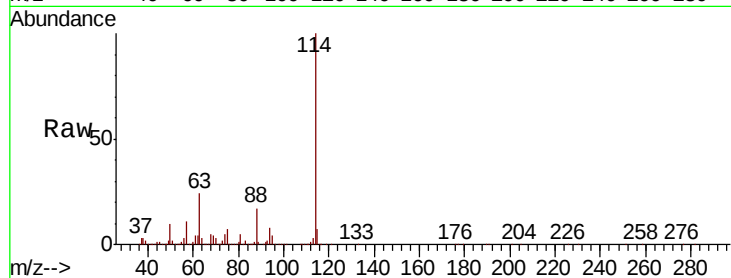
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.1	30.1
88	17.9	14.2	21.4

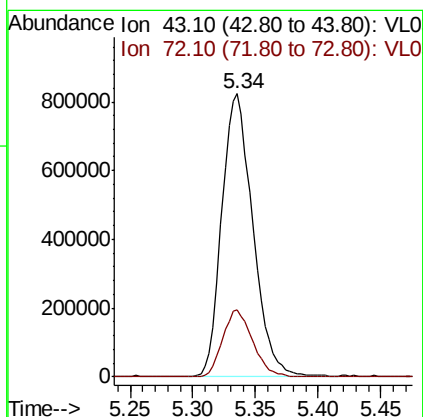
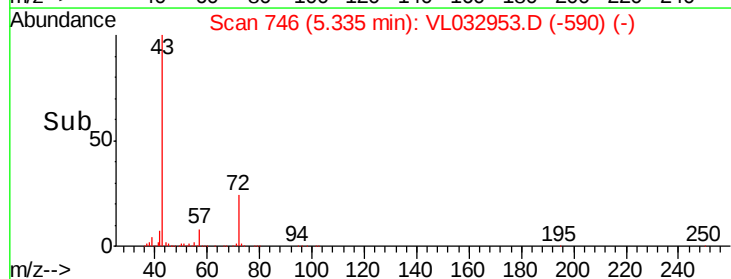
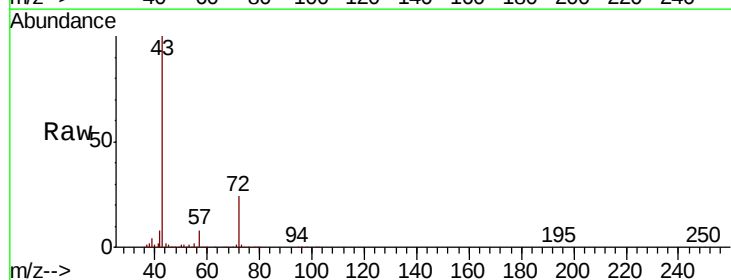
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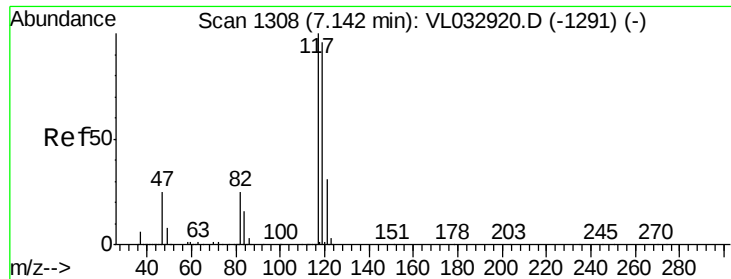
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#34
 2-Butanone
 Concen: 9.885 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.8	28.2





#35

Carbon Tetrachloride

Concen: 9.351 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2405859

Ion Ratio Lower Upper

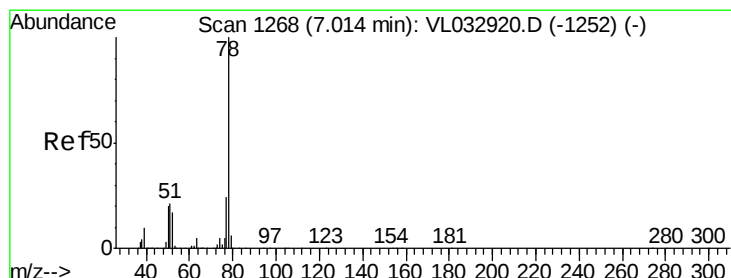
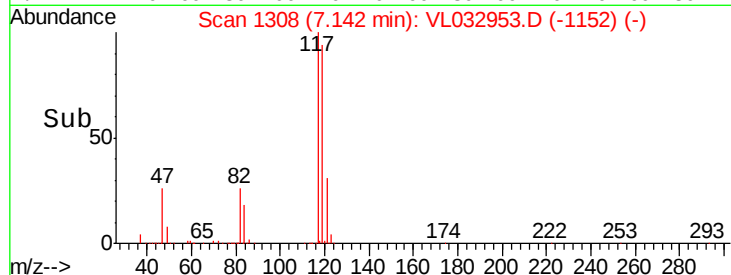
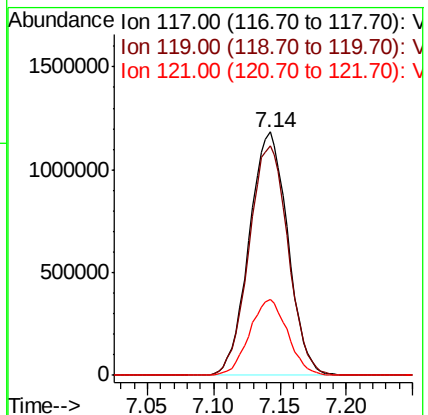
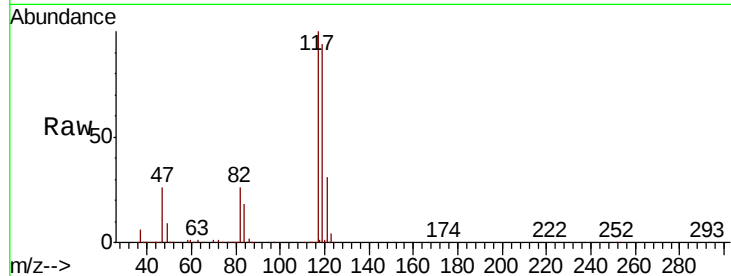
117 100

119 94.1 76.5 114.7

121 31.0 24.5 36.7

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#36

Benzene

Concen: 10.310 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

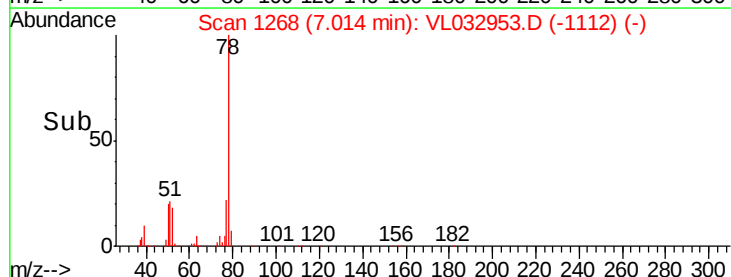
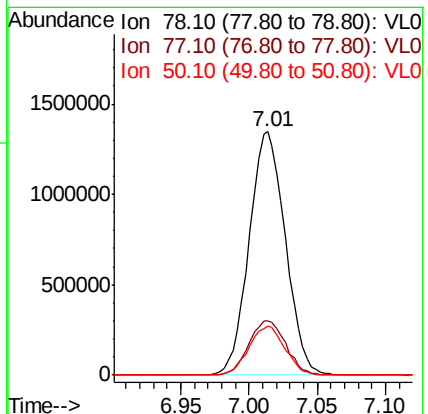
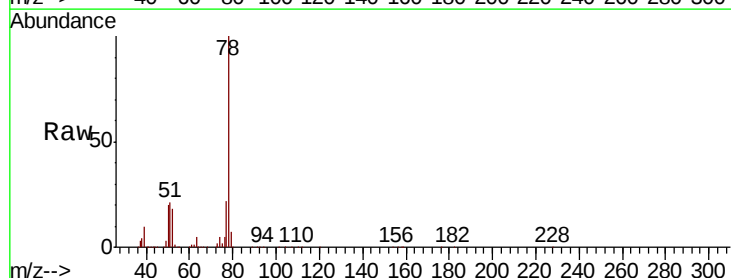
Tgt Ion: 78 Resp: 2482294

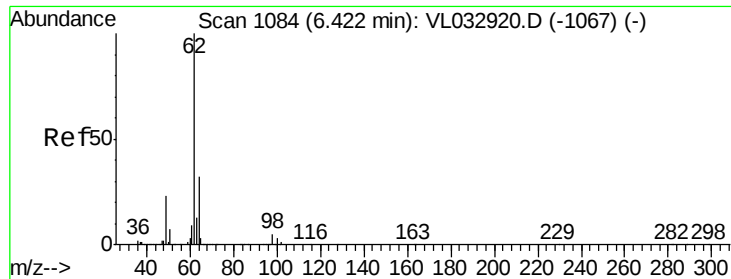
Ion Ratio Lower Upper

78 100

77 22.0 18.9 28.3

50 20.4 16.1 24.1





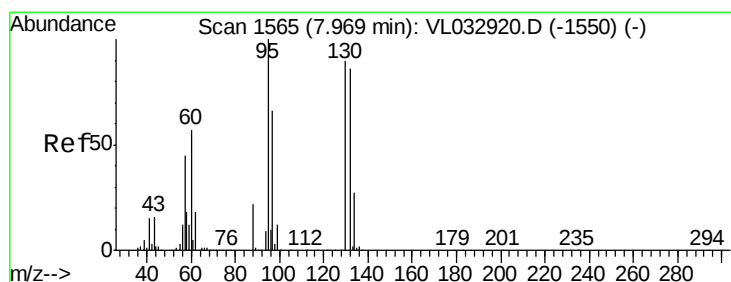
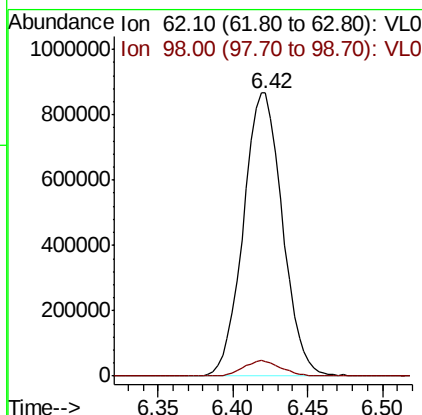
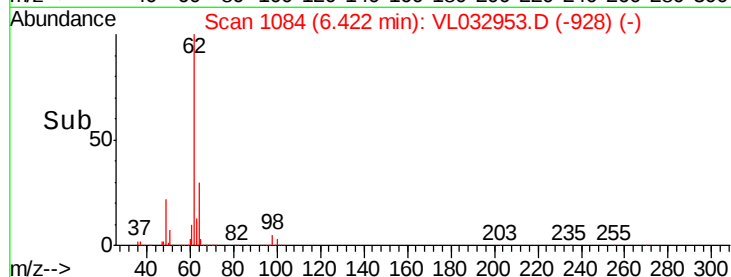
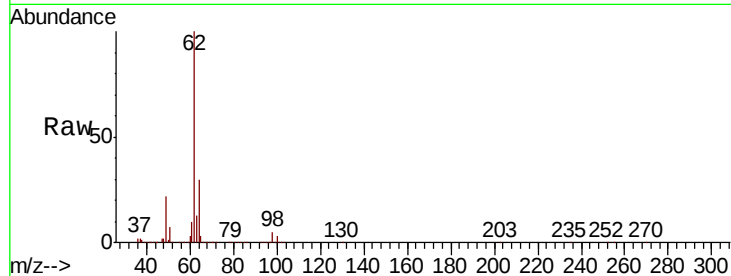
#37
 1,2-Dichloroethane
 Concen: 9.632 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1578803
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.3 6.5

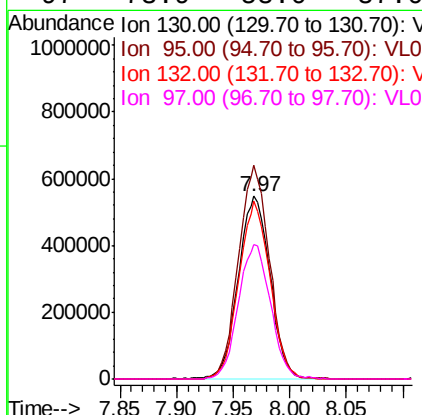
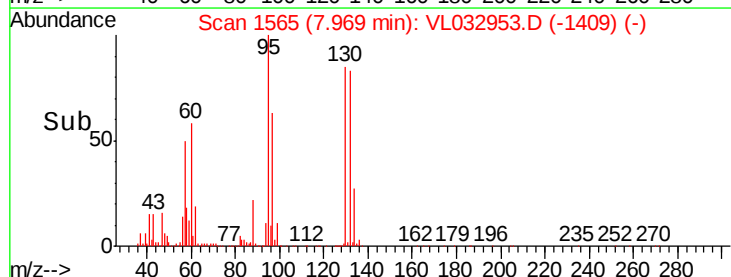
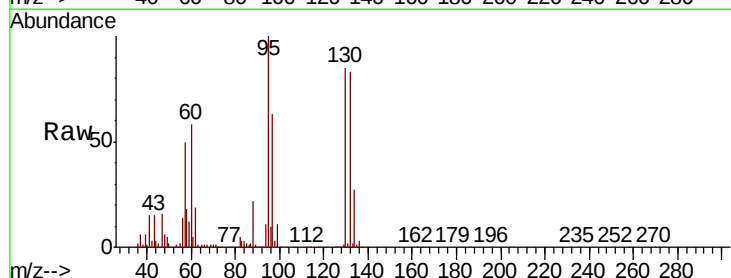
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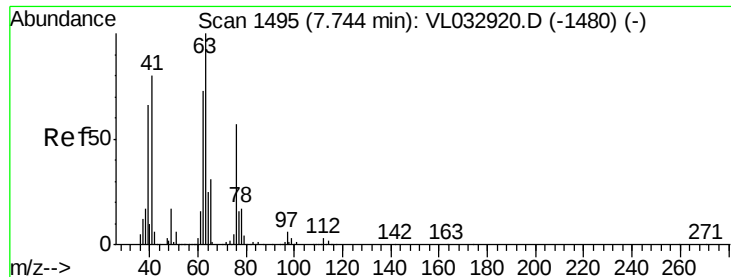
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#38
 Trichloroethene
 Concen: 10.637 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion: 130 Resp: 1065764
 Ion Ratio Lower Upper
 130 100
 95 117.2 88.6 132.8
 132 97.6 76.1 114.1
 97 73.9 58.0 87.0





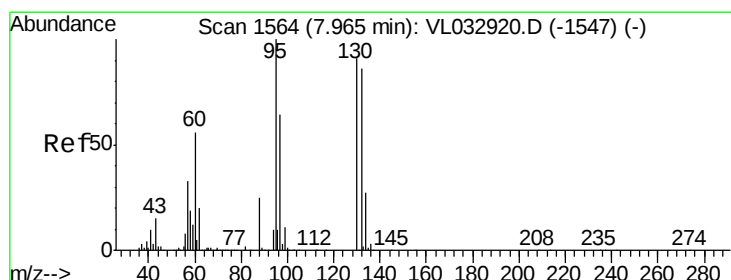
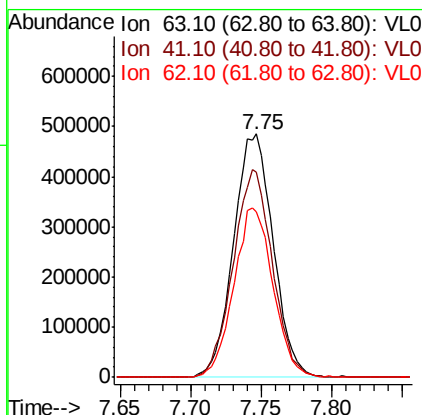
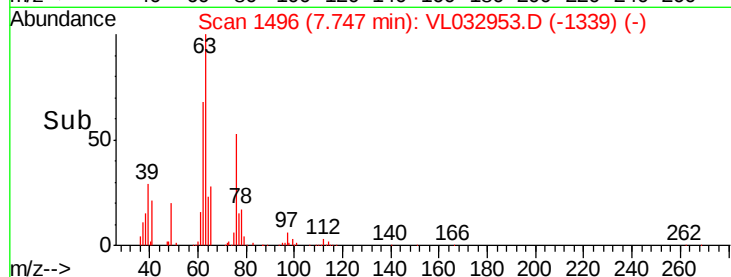
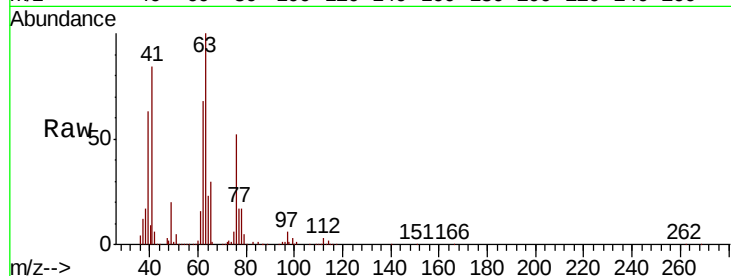
#39
 1,2-Dichloropropane
 Concen: 10.470 ppbv
 RT: 7.75 min Scan# 1496
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	84.0	63.9	95.9
62	67.8	58.8	88.2

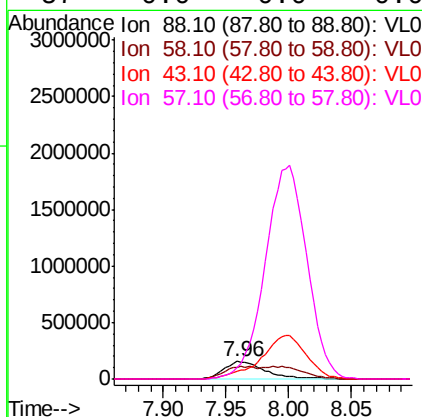
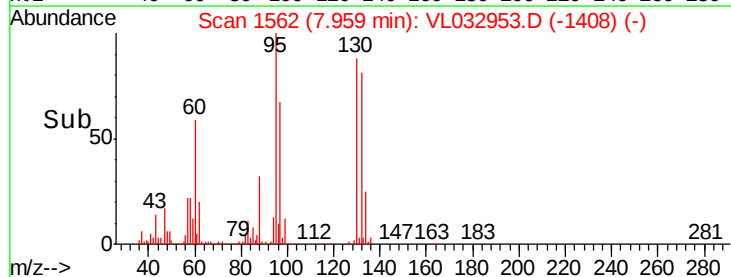
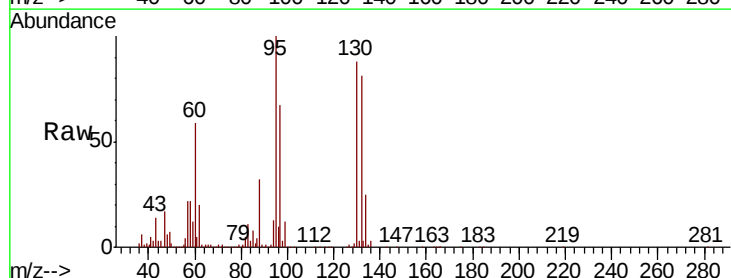
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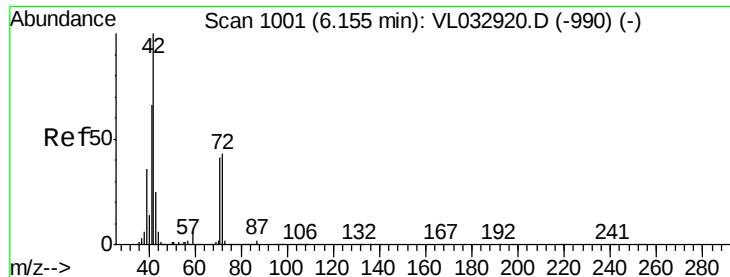
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#40
 1,4-Dioxane
 Concen: 10.511 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	55.5	107.4	161.2#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





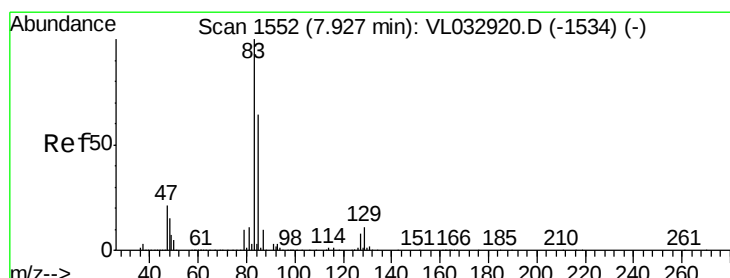
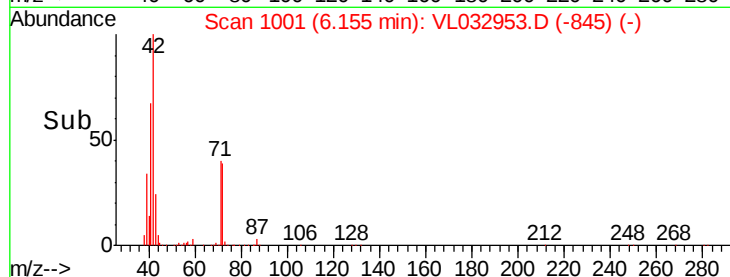
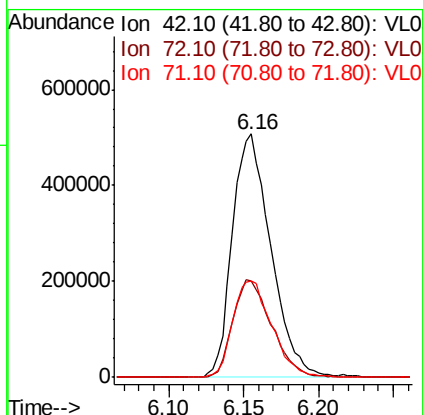
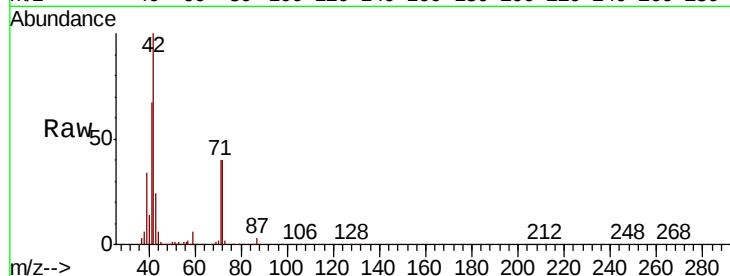
#41
Tetrahydrofuran
Concen: 10.296 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.9	49.3
71	40.3	32.0	48.0

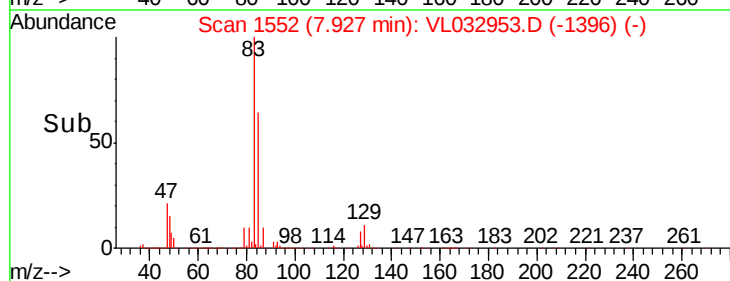
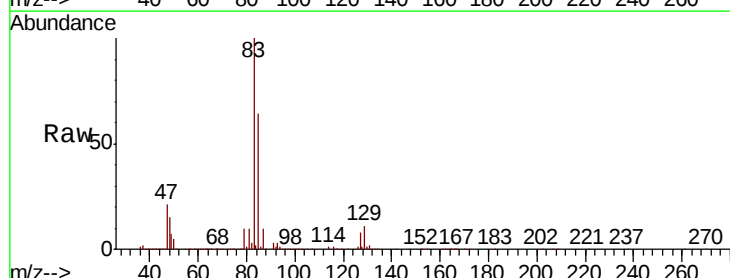
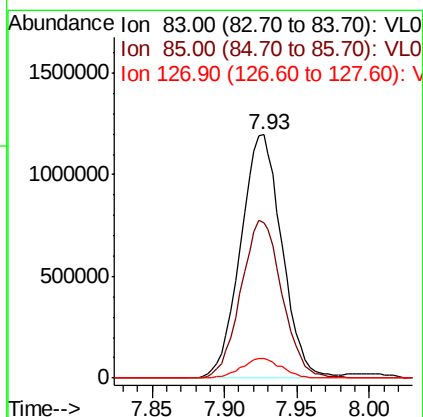
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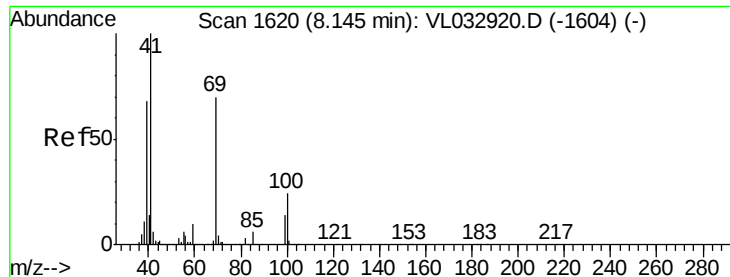
MMDadoda
12/13/2018 7:58:36 AM



#42
Bromodichloromethane
Concen: 10.429 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.1	6.7	10.1





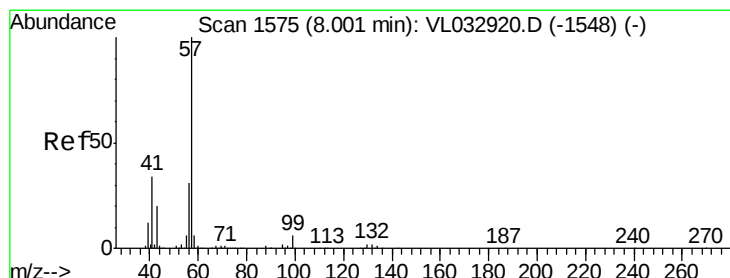
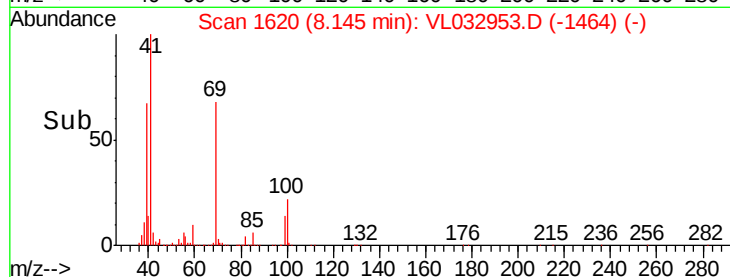
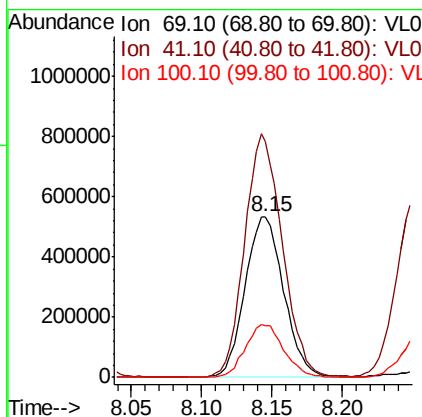
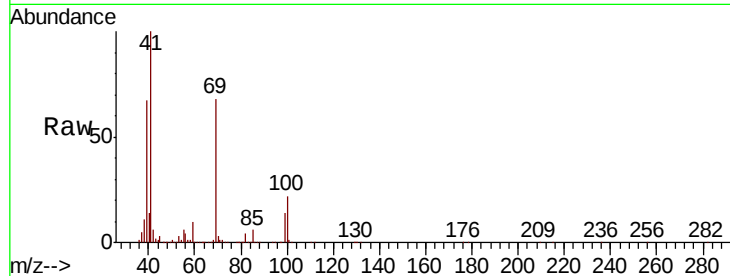
#43
Methvl Methacrilate
Concen: 11.496 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1025533
Ion Ratio Lower Upper
69 100
41 147.6 116.6 175.0
100 32.6 26.5 39.7

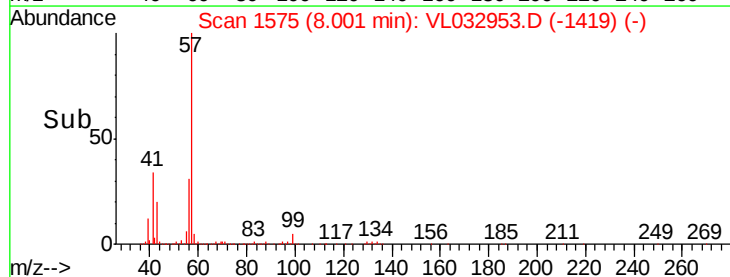
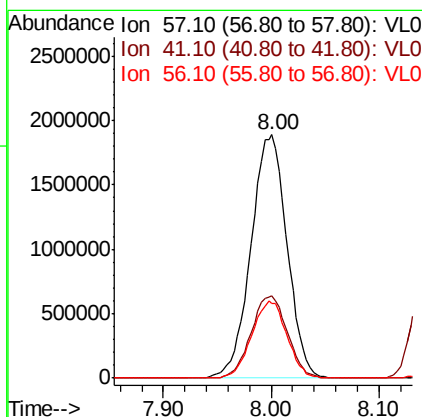
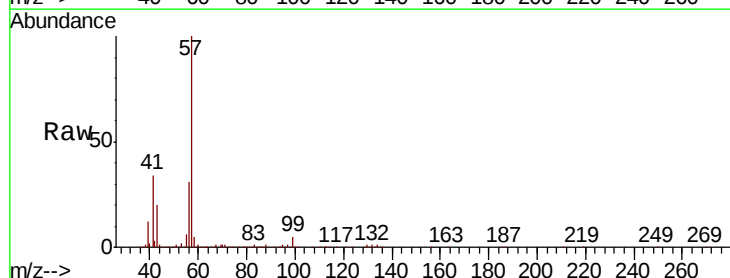
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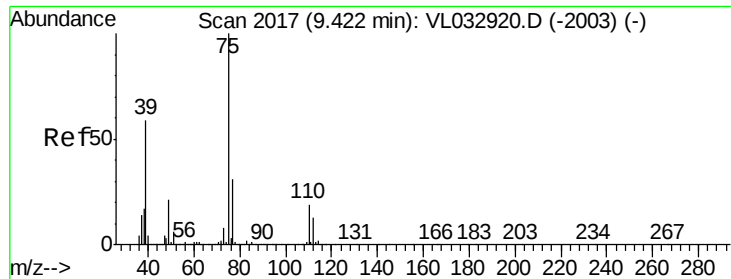
MMDadoda
12/13/2018 7:58:36 AM



#44
2,2,4-Trimethylpentane
Concen: 10.734 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion: 57 Resp: 4386829
Ion Ratio Lower Upper
57 100
41 33.9 27.0 40.4
56 30.9 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 12.739 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1393372

Ion Ratio Lower Upper

75 100

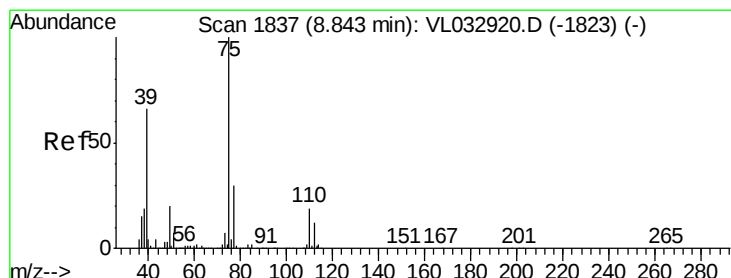
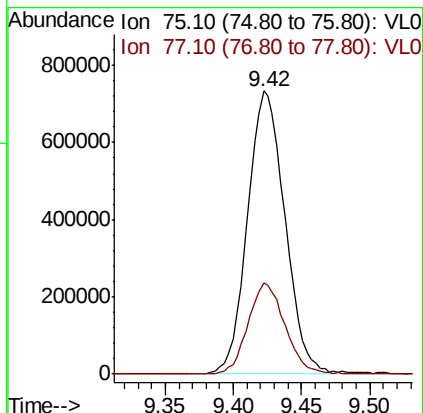
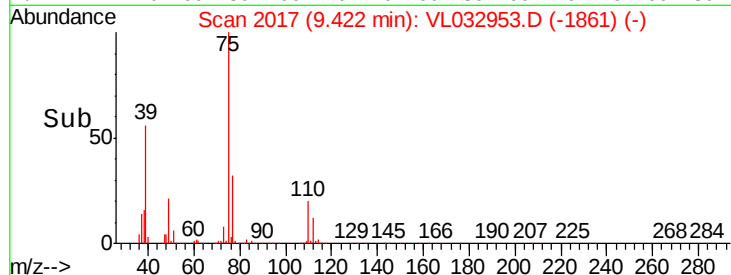
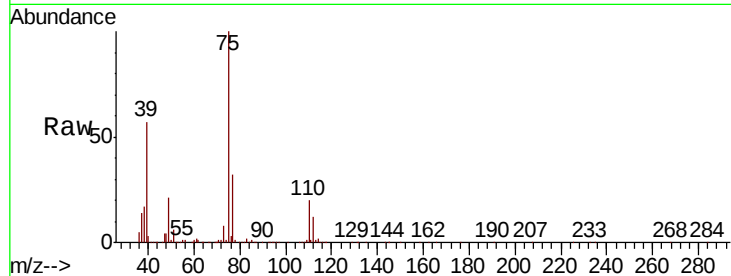
77 32.1 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 11.748 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

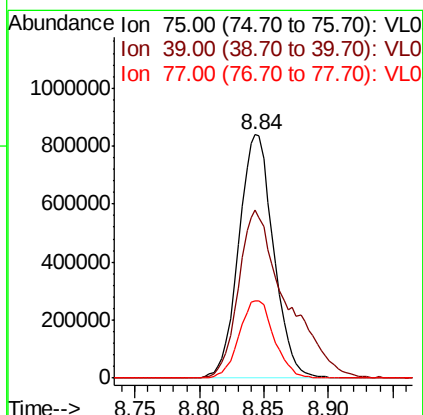
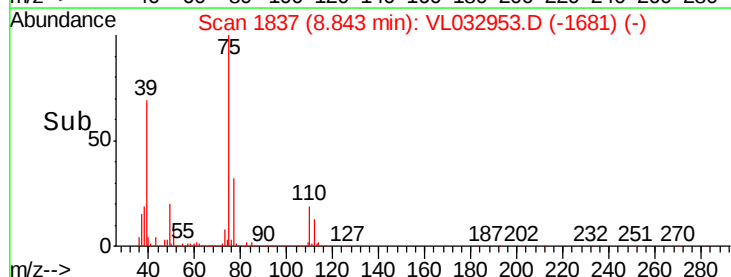
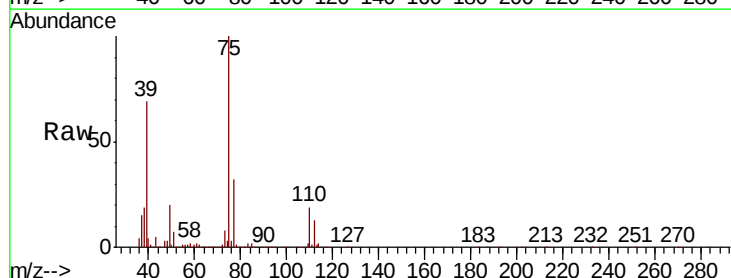
Tgt Ion: 75 Resp: 1572843

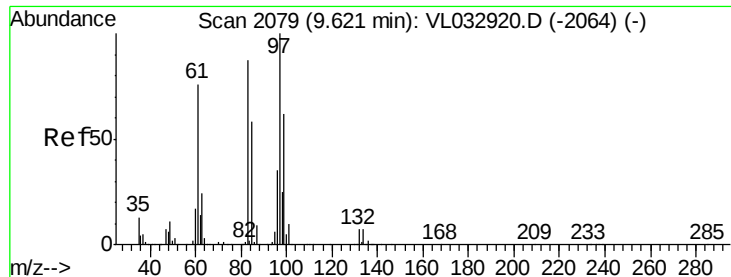
Ion Ratio Lower Upper

75 100

39 68.8 52.8 79.2

77 31.9 24.3 36.5





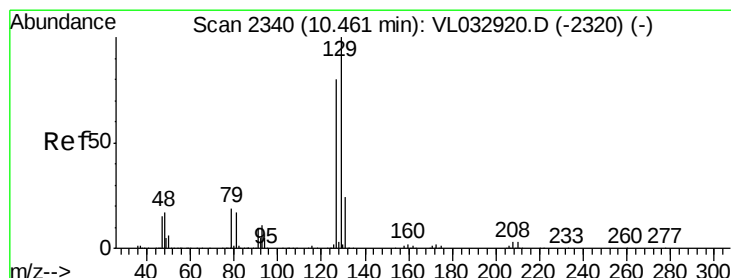
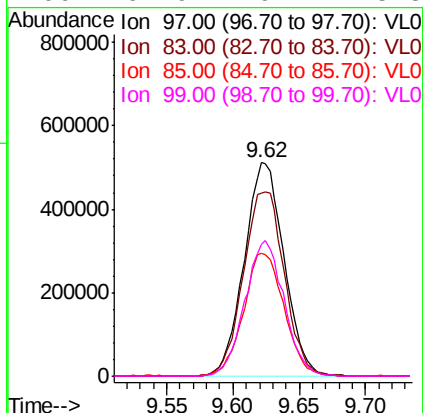
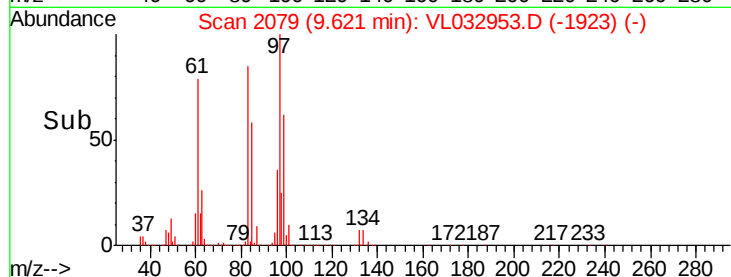
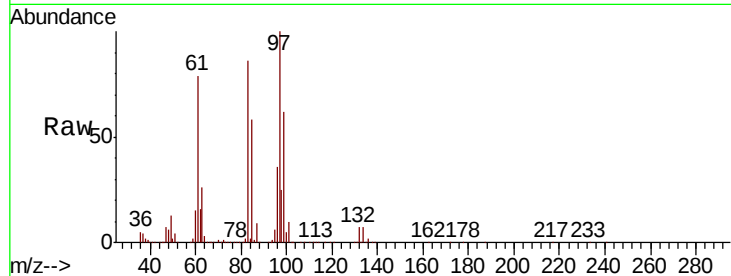
#47
 1,1,2-Trichloroethane
 Concen: 10.665 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.8	104.8
85	57.6	46.7	70.1
99	61.9	49.2	73.8

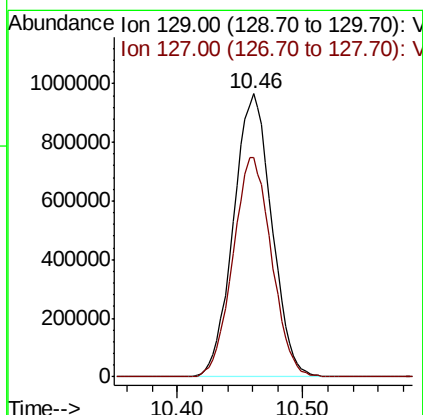
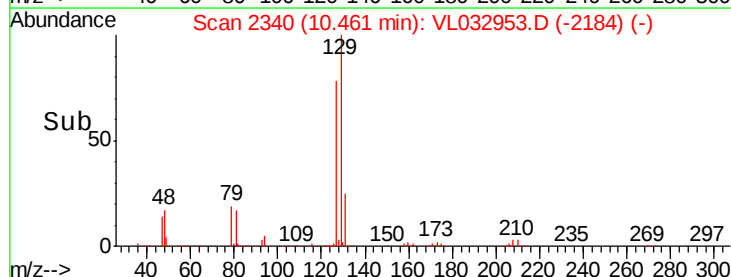
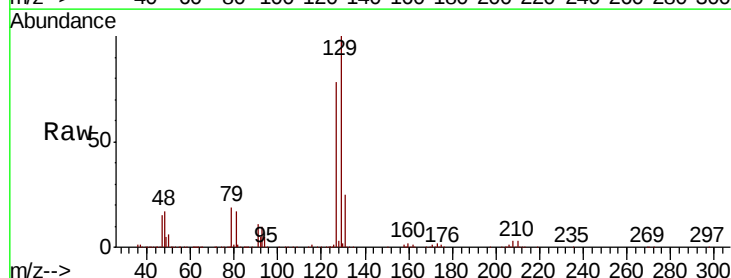
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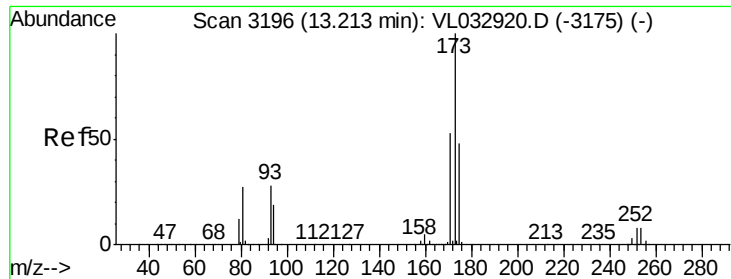
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#48
 Dibromochloromethane
 Concen: 10.879 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.8





#49

Bromoform

Concen: 11.230 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1741331

Ion Ratio Lower Upper

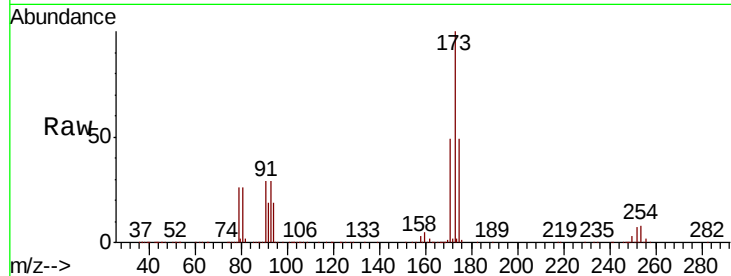
173 100

175 49.0 39.0 58.4

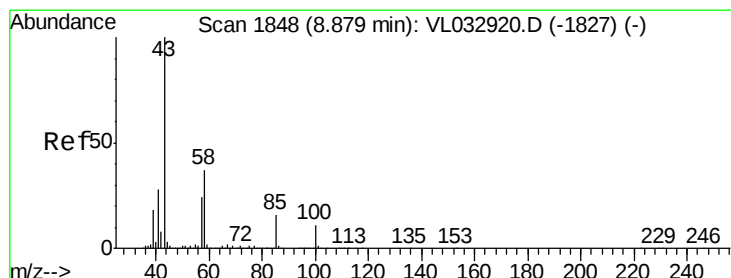
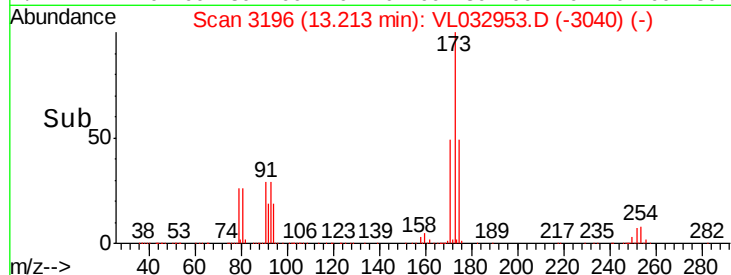
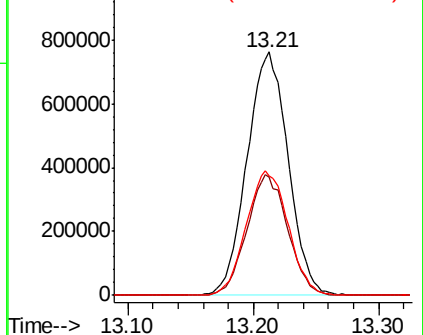
171 52.1 41.5 62.3

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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: 10.517 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL032953.D

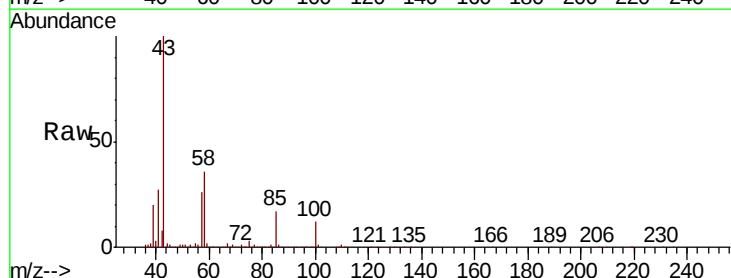
Acq: 11 Dec 2018 12:51

Tgt Ion: 43 Resp: 2397920

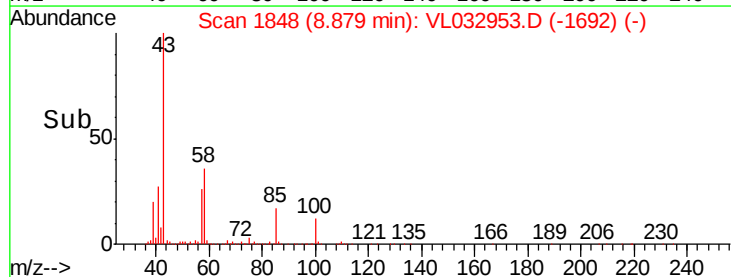
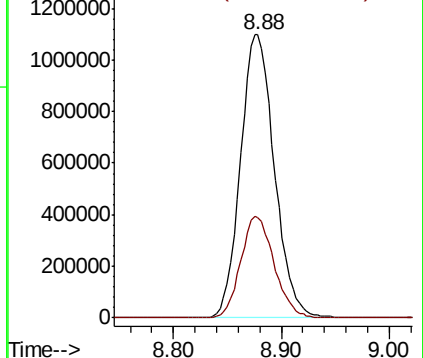
Ion Ratio Lower Upper

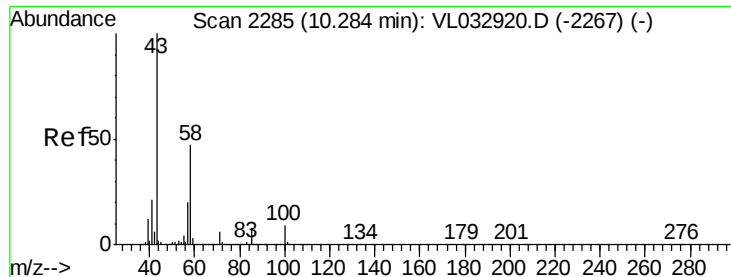
43 100

58 35.6 29.0 43.4



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





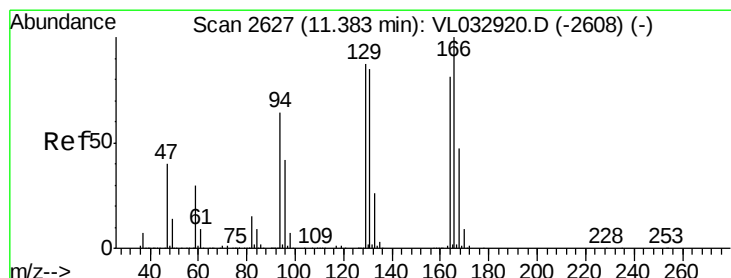
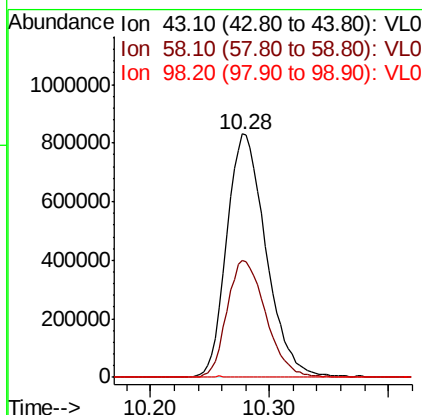
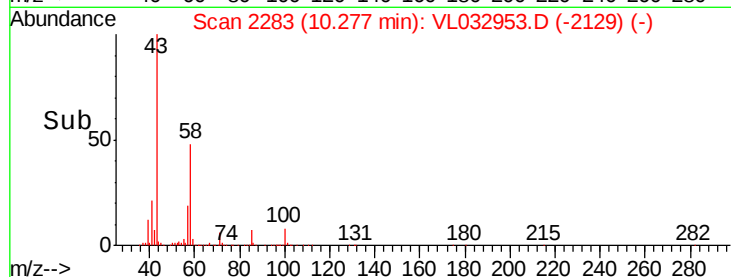
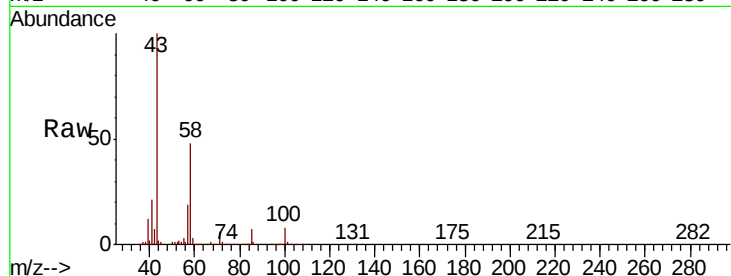
#51
2-Hexanone
Concen: 12.259 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1895496
Ion Ratio Lower Upper
43 100
58 47.8 38.1 57.1
98 0.3 0.4 0.6#

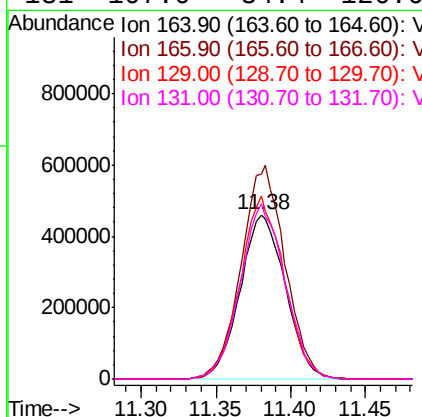
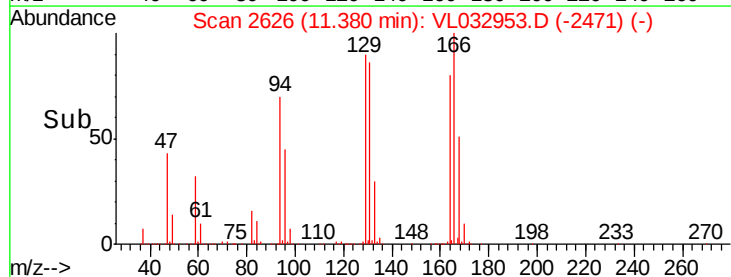
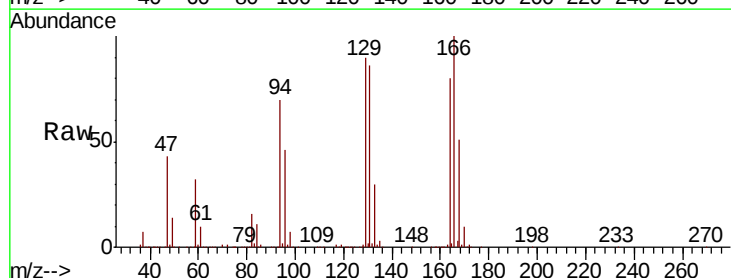
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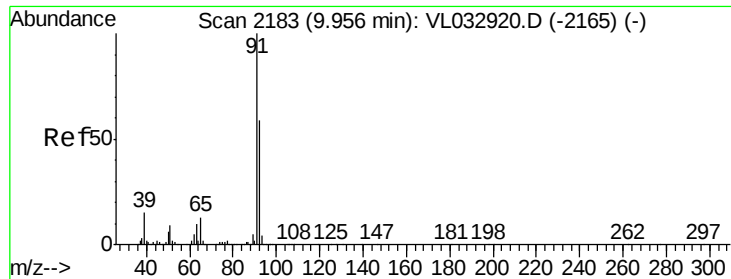
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#52
Tetrachloroethene
Concen: 10.996 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion:164 Resp: 962978
Ion Ratio Lower Upper
164 100
166 124.6 98.8 148.2
129 111.7 85.5 128.3
131 107.0 84.4 126.6





#53

Toluene

Concen: 12.671 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3235494

Ion Ratio Lower Upper

91 100

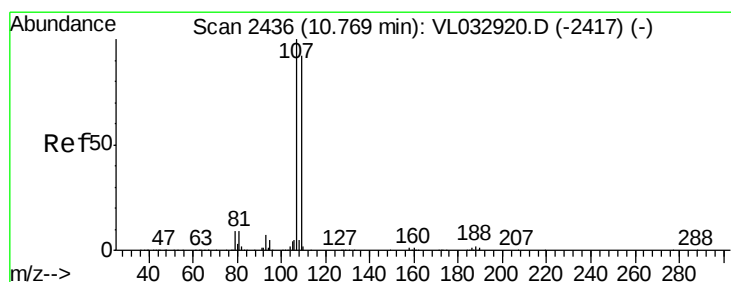
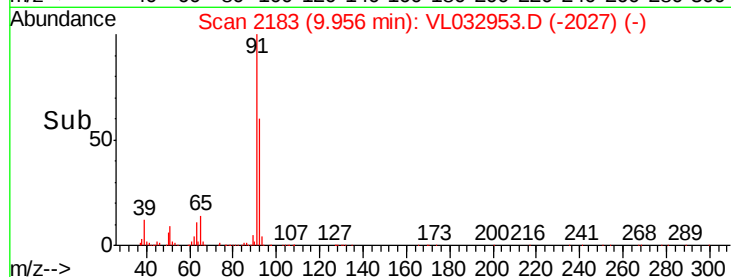
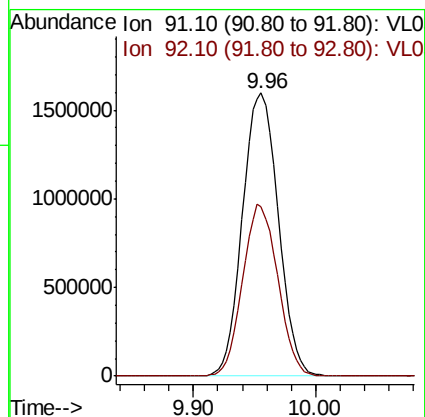
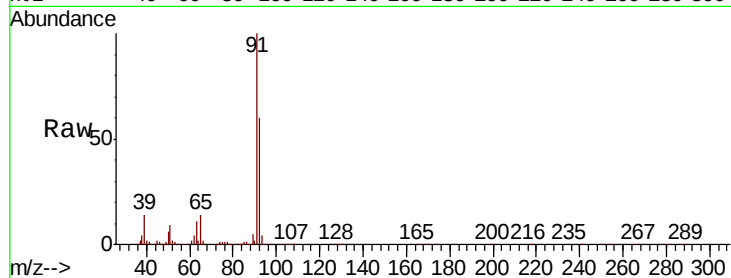
92 59.6 47.4 71.0

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.720 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL032953.D

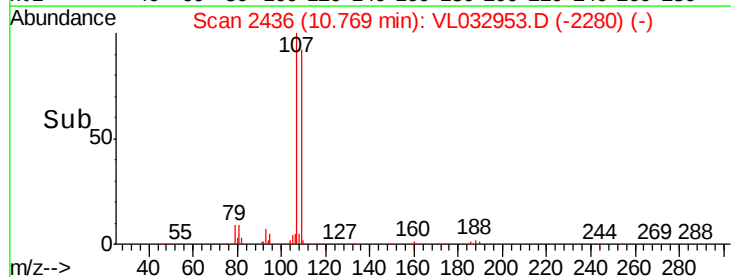
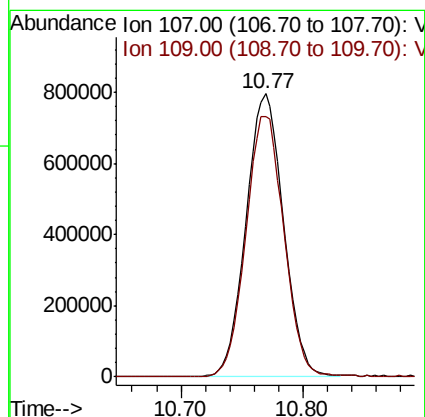
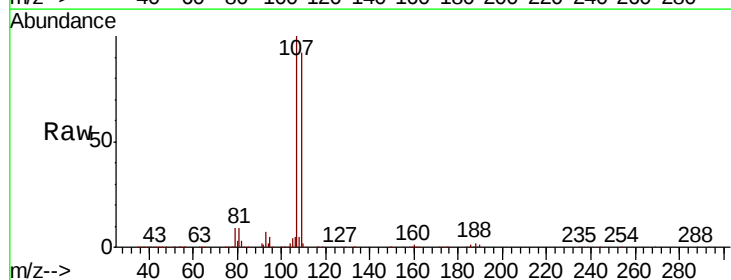
Acq: 11 Dec 2018 12:51

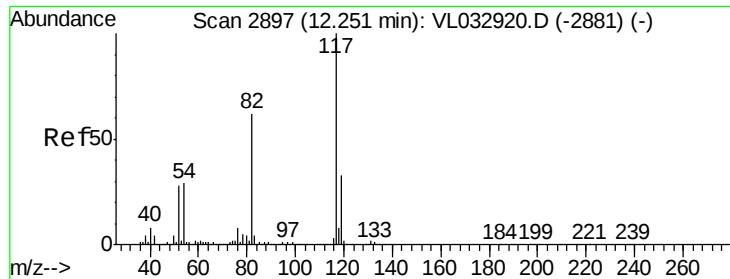
Tgt Ion: 107 Resp: 1683039

Ion Ratio Lower Upper

107 100

109 92.2 73.4 110.2





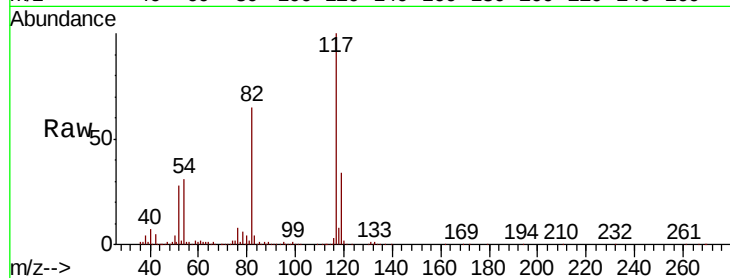
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.8	71.8
119	30.5	43.1	64.7#

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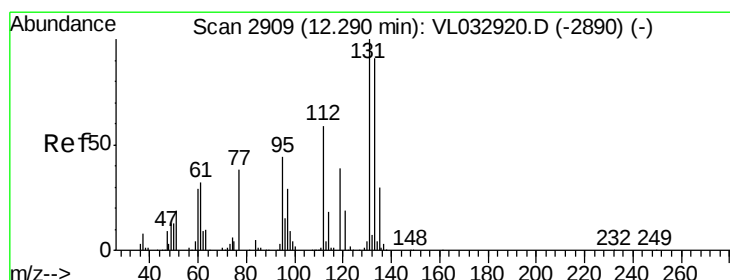
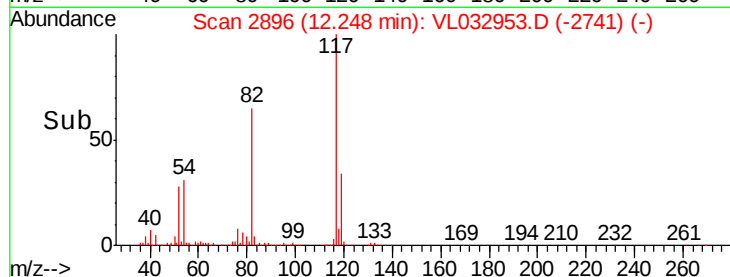
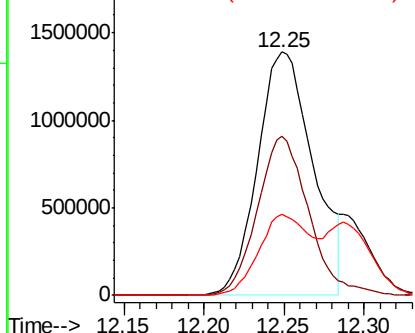


Abundance

Ion 117.10 (116.80 to 117.80): V

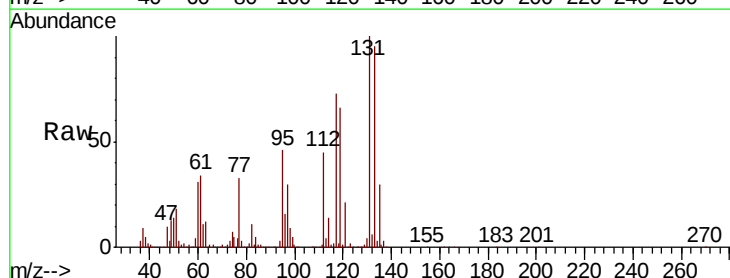
Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56
1,1,1,2-Tetrachloroethane
Concen: 9.639 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	75.1	112.7
119	57.8	47.5	71.3

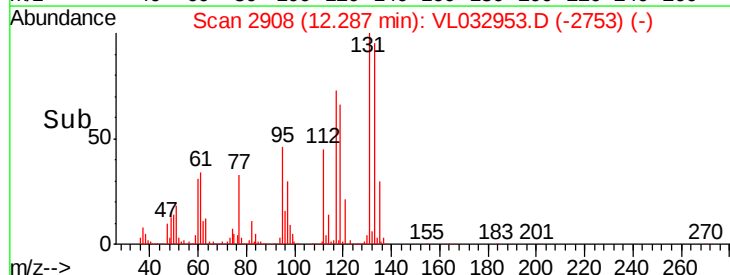
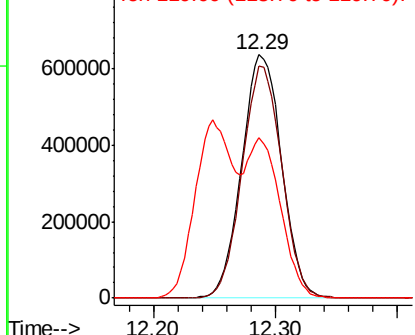


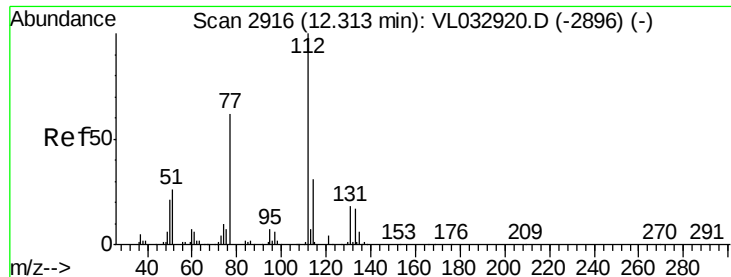
Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.517 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

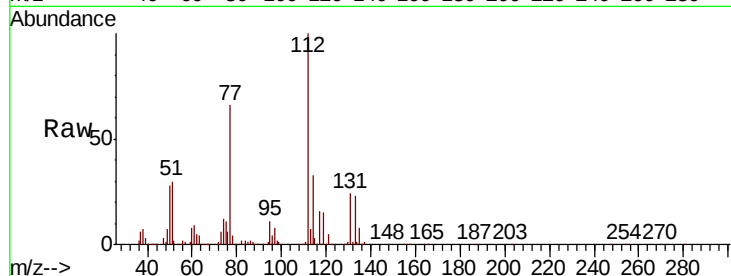
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.0	51.1	76.7
114	32.9	28.4	34.7

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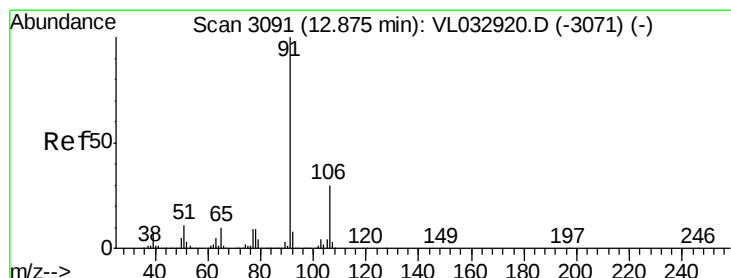
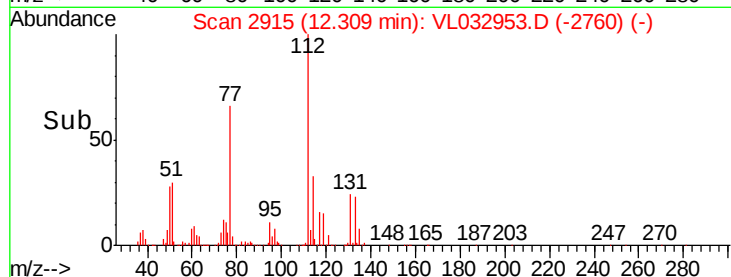
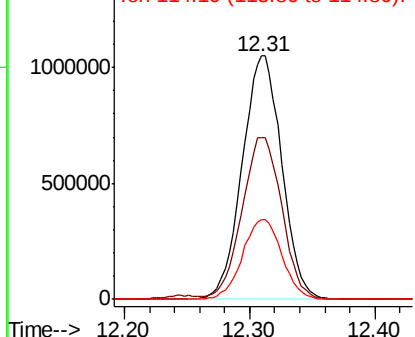
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.535 ppbv

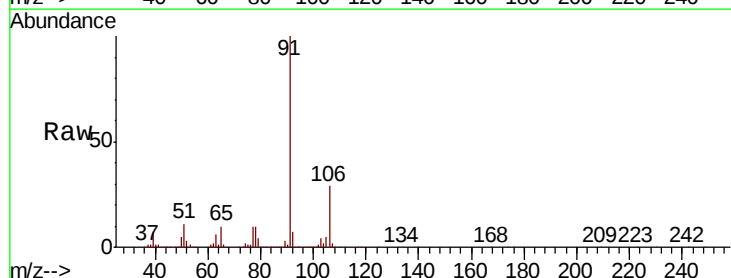
RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032953.D

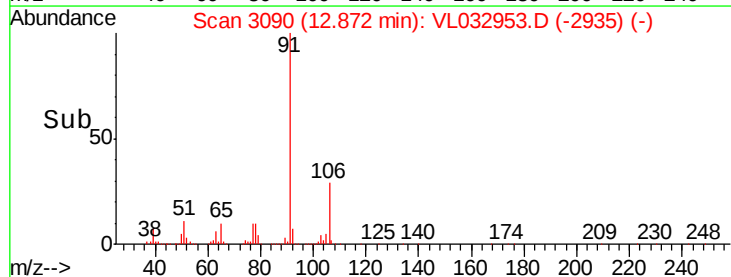
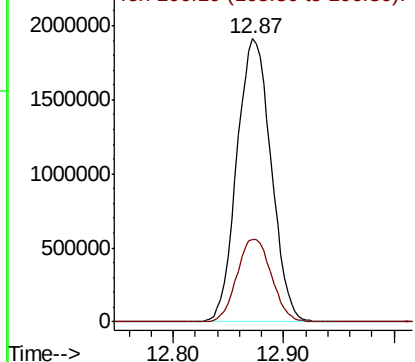
Acq: 11 Dec 2018 12:51

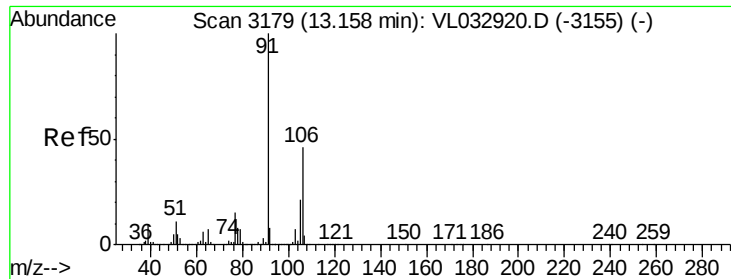
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.9	35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





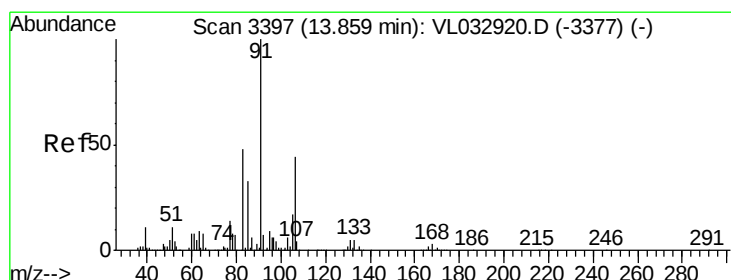
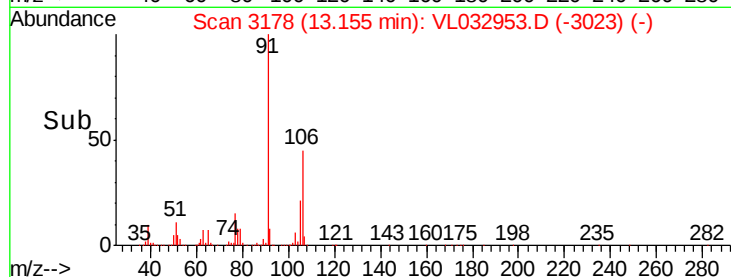
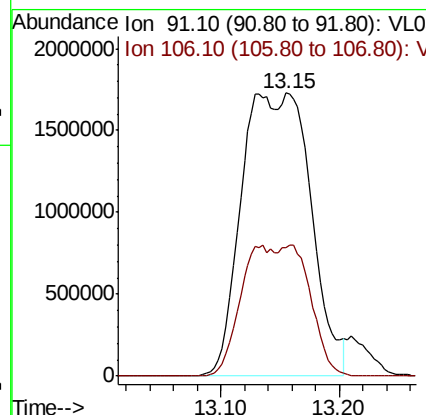
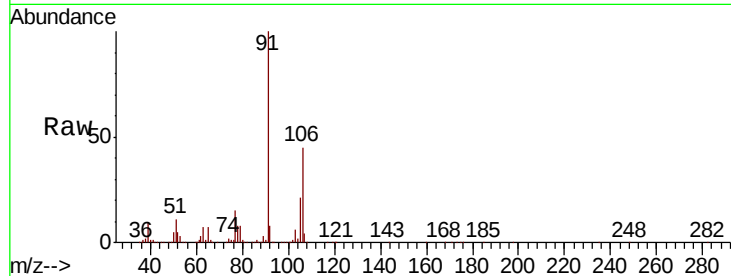
#59
m/p-Xylene
Concen: 21.740 ppbv m
RT: 13.15 min Scan# 3178
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7043360
Ion Ratio Lower Upper
91 100
106 44.9 0.0 0.0#

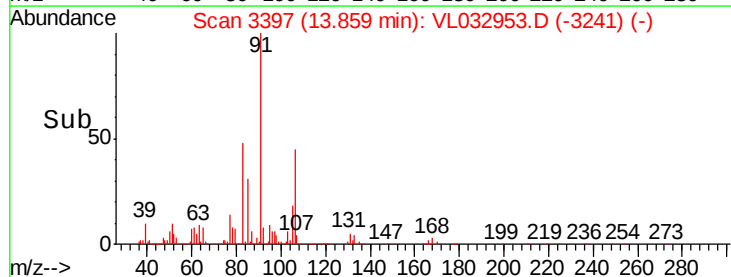
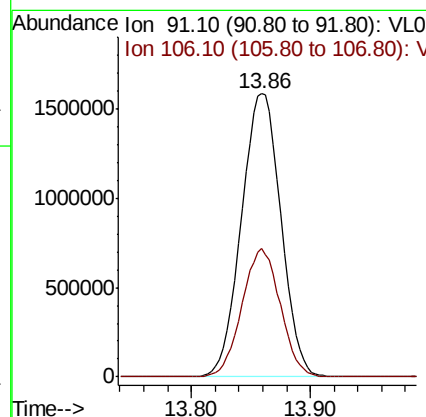
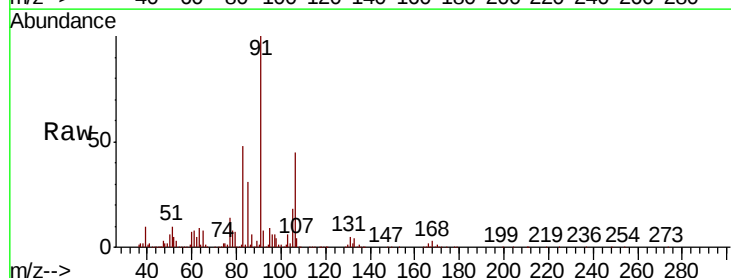
Manual Integrations
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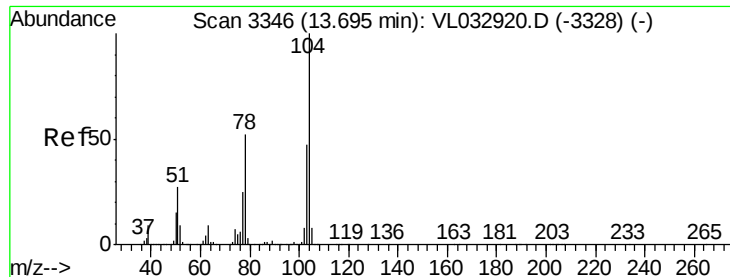
MMDadoda
12/13/2018 7:58:36 AM



#60
o-Xylene
Concen: 11.124 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion: 91 Resp: 3639630
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.8





#61

Stvrene

Concen: 12.156 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2645753

Ion Ratio Lower Upper

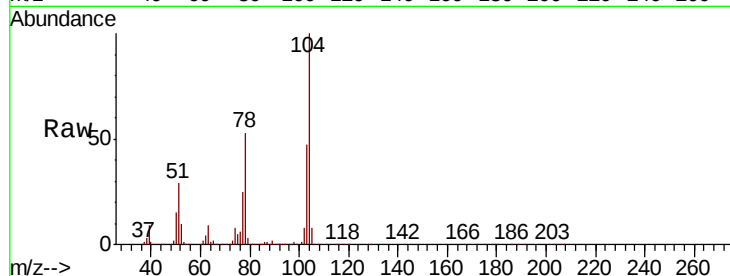
104 100

78 53.1 42.0 63.0

103 48.1 38.3 57.5

Manual Integrations
APPROVED

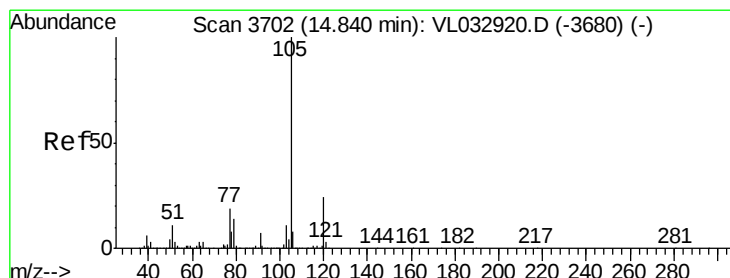
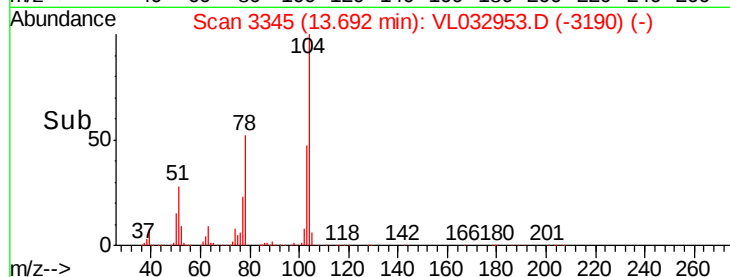
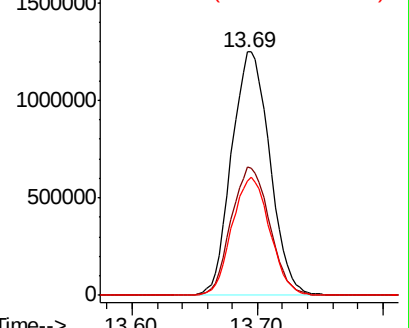
MMDadoda
12/13/2018 7:58:36 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.584 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032953.D

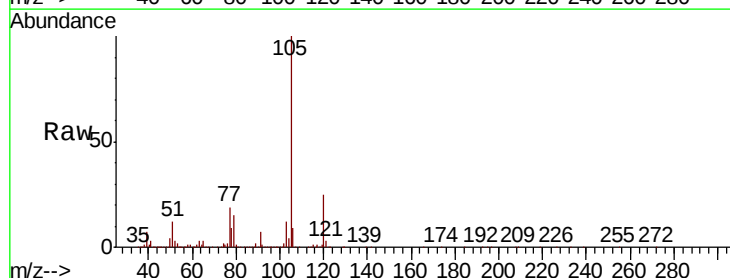
Acq: 11 Dec 2018 12:51

Tgt Ion:105 Resp: 5287741

Ion Ratio Lower Upper

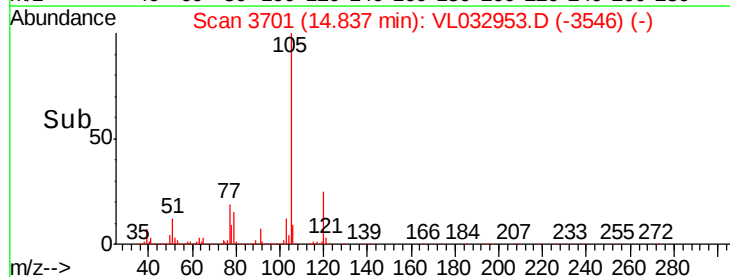
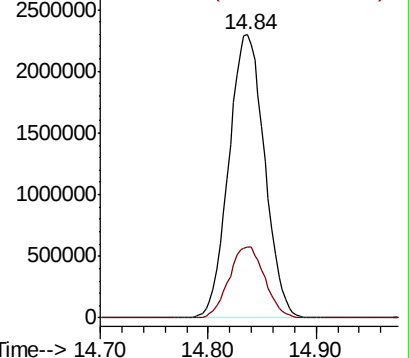
105 100

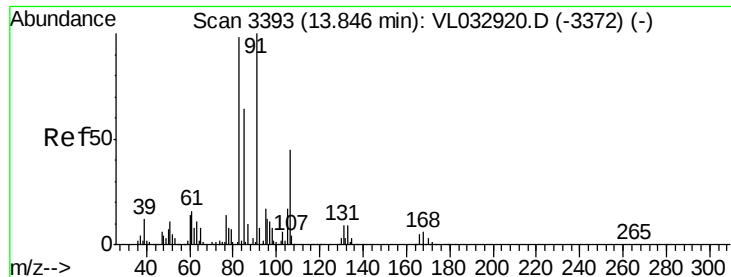
120 25.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.842 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2500319

Ion Ratio Lower Upper

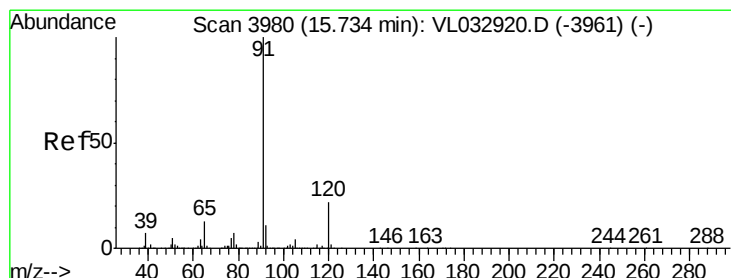
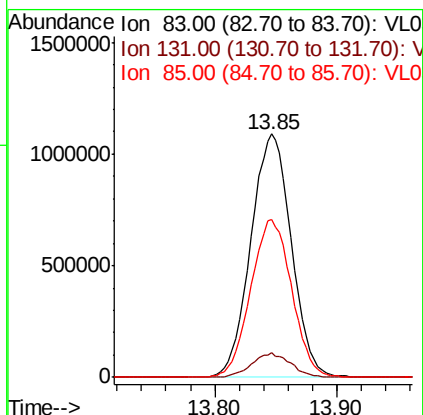
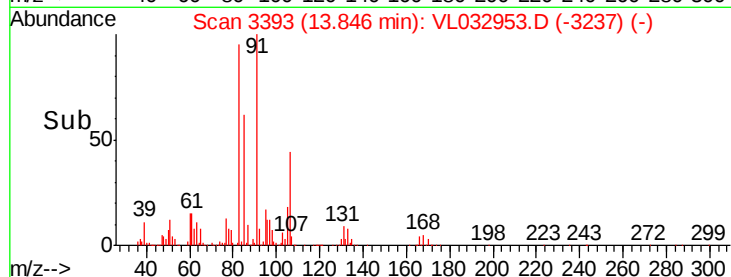
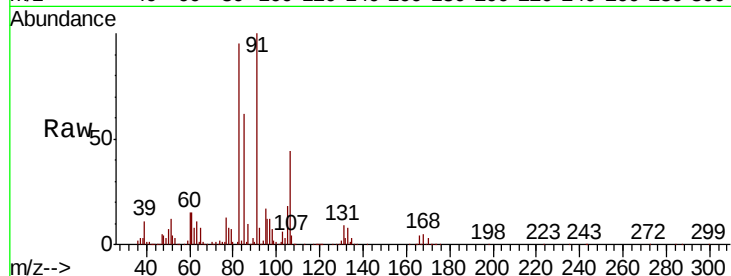
83 100

131 9.6 4.9 14.6

85 65.8 32.9 98.6

Manual Integrations
APPROVED

MMDadoda
12/13/2018 7:58:36 AM



#64

n-propylbenzene

Concen: 10.465 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. 0.00 min

Lab File: VL032953.D

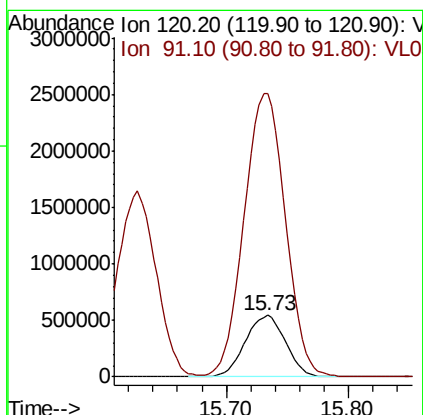
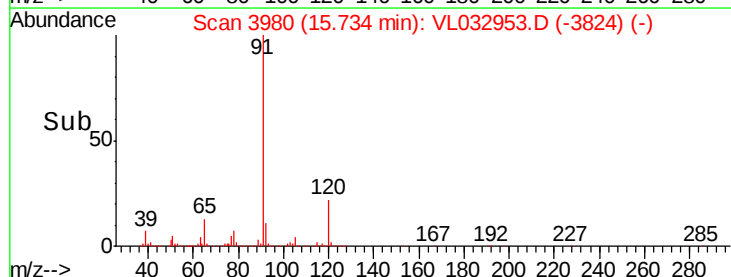
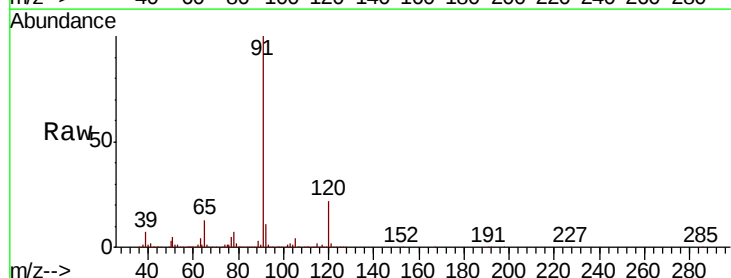
Acq: 11 Dec 2018 12:51

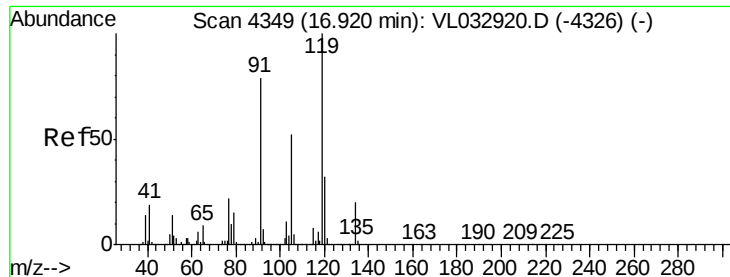
Tgt Ion: 120 Resp: 1240752

Ion Ratio Lower Upper

120 100

91 474.1 380.4 570.6





#65

tert-Butylbenzene

Concen: 10.827 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4581949

Ion Ratio Lower Upper

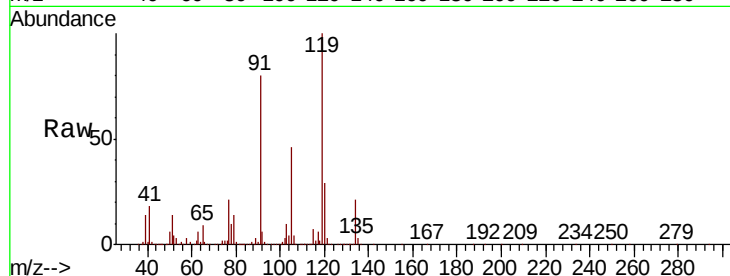
119 100

91 81.6 64.5 96.7

134 19.9 15.7 23.5

Manual Integrations
APPROVED

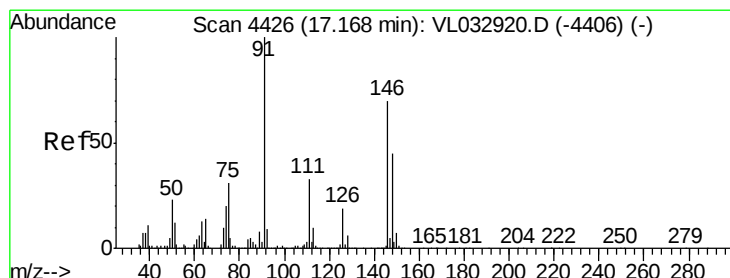
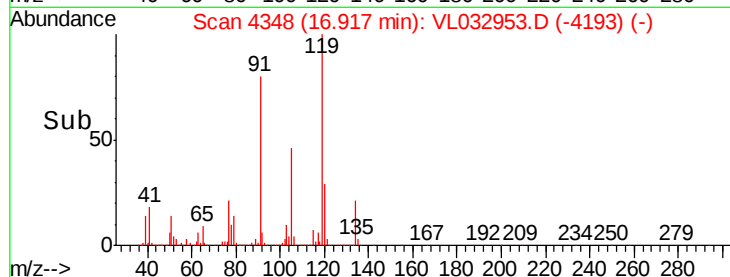
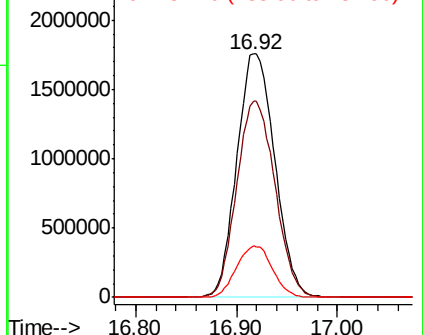
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12/13/2018 7:58:36 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.849 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

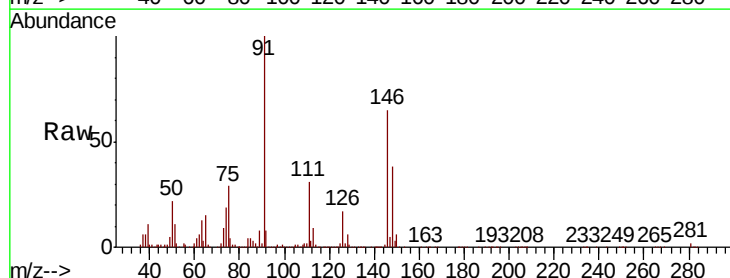
Tgt Ion: 91 Resp: 2544698

Ion Ratio Lower Upper

91 100

126 17.5 14.1 21.1

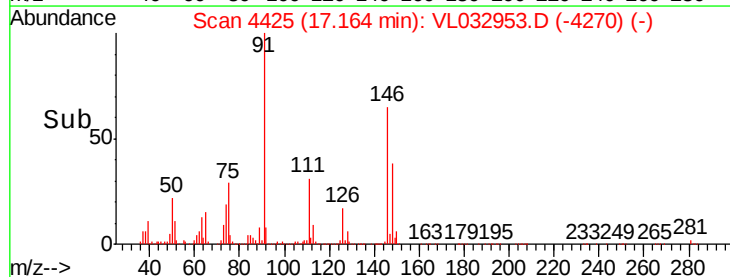
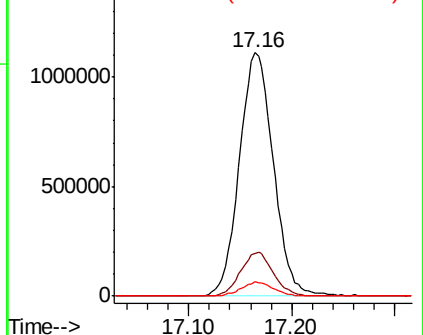
128 5.5 4.5 6.7

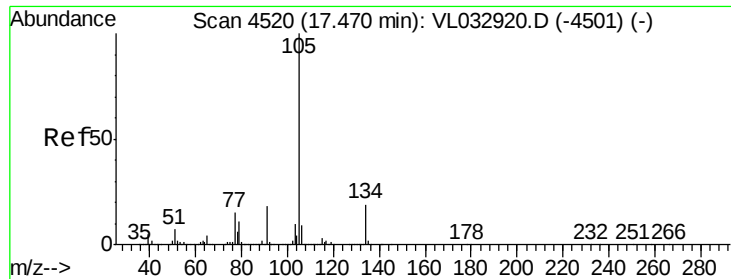


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.576 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5975048

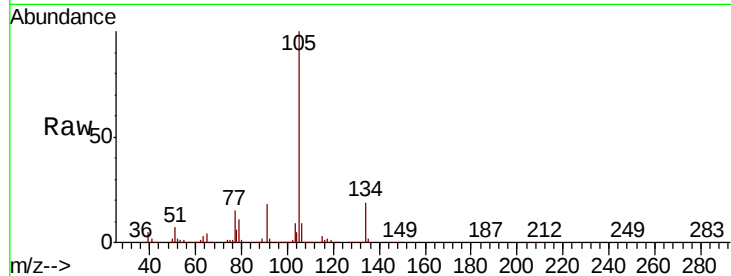
Ion Ratio Lower Upper

105 100

134 18.3 14.6 21.8

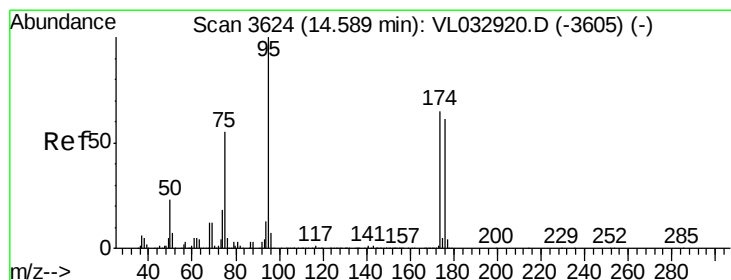
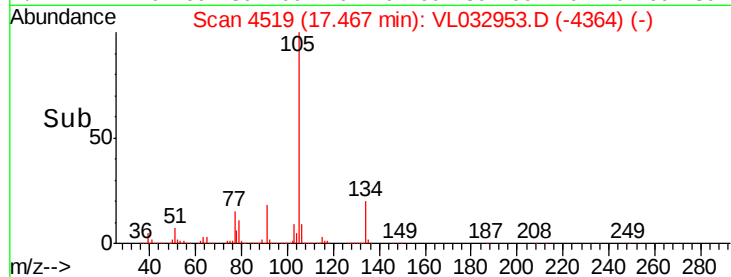
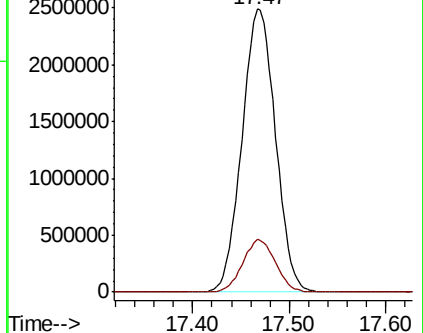
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.450 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

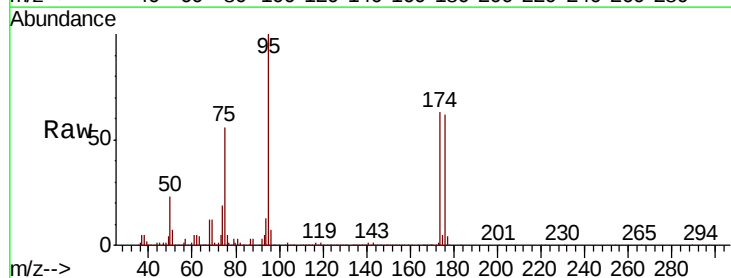
Tgt Ion: 95 Resp: 2586230

Ion Ratio Lower Upper

95 100

174 64.3 51.4 77.0

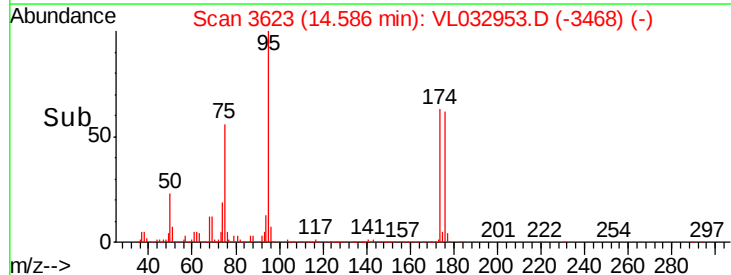
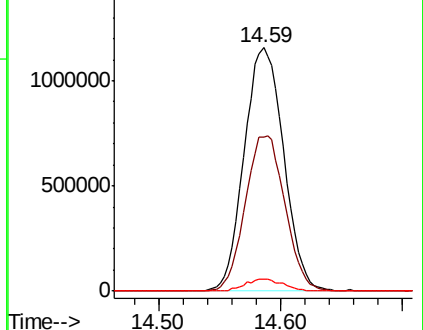
175 4.8 3.8 5.6

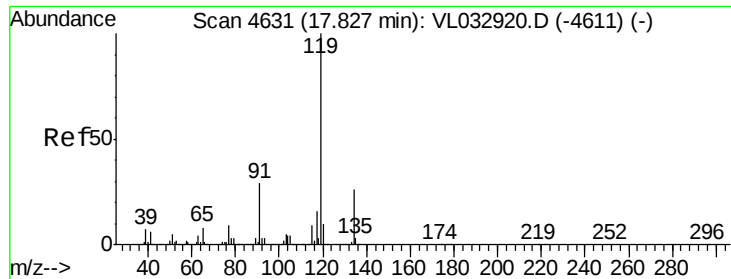


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





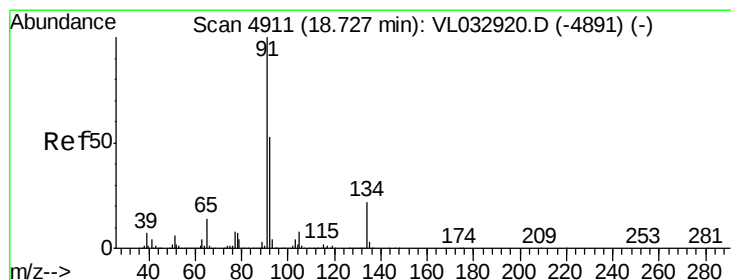
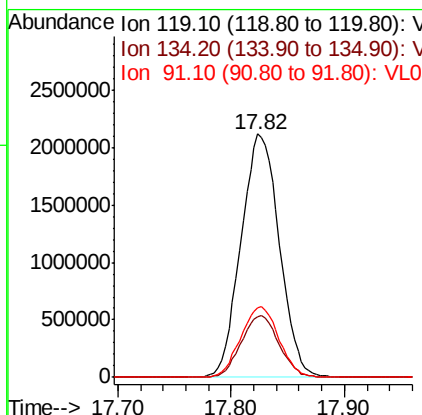
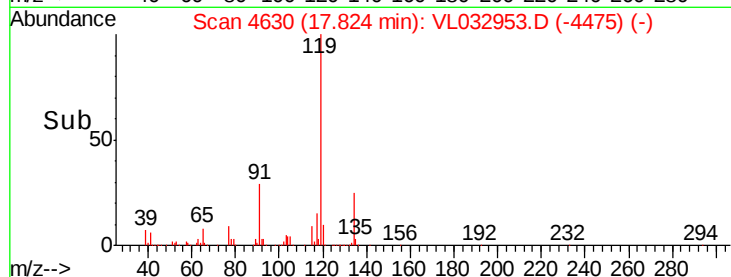
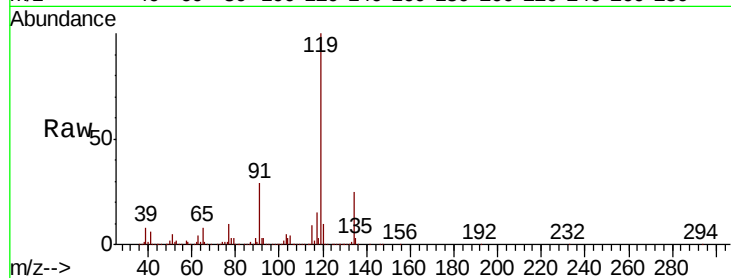
#69
 p-Isopropyltoluene
 Concen: 9.864 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 4987678
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.2 30.2
 91 28.9 22.9 34.3

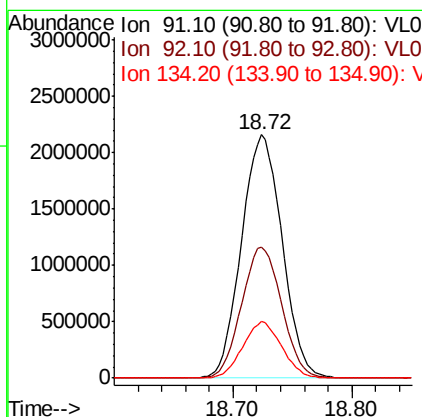
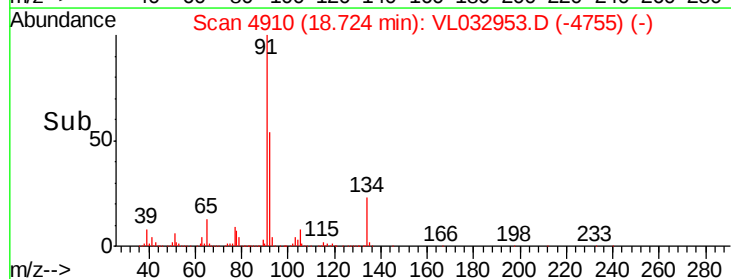
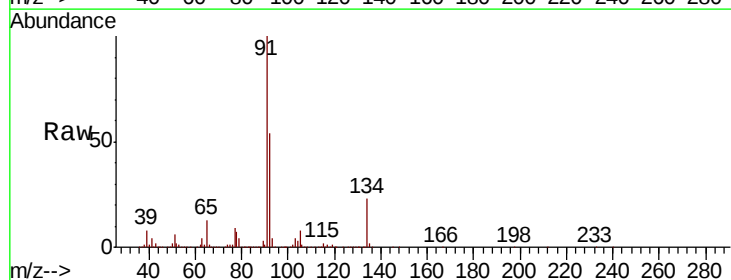
Manual Integrations
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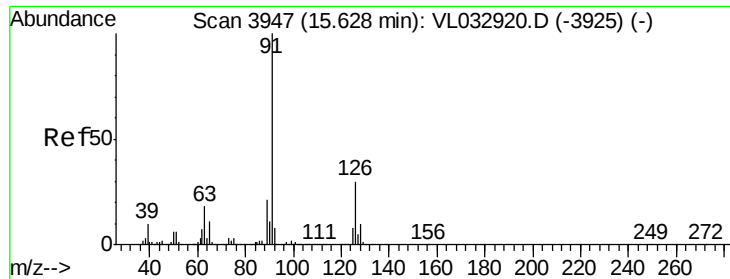
MMDadoda
 12/13/2018 7:58:36 AM



#70
 n-Butylbenzene
 Concen: 10.976 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. -0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion: 91 Resp: 5105928
 Ion Ratio Lower Upper
 91 100
 92 53.3 42.7 64.1
 134 22.2 18.0 27.0





#71

2-Chlorotoluene

Concen: 10.619 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3604753

Ion Ratio Lower Upper

91 100

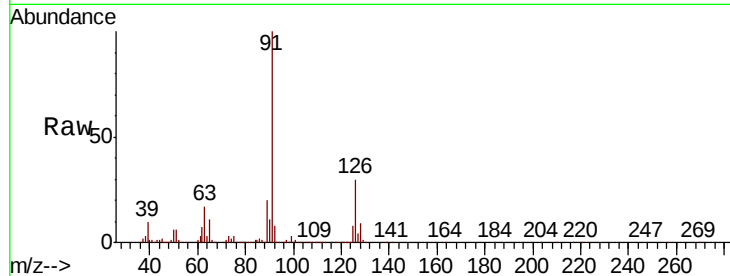
126 30.4 12.3 49.3

Manual Integrations

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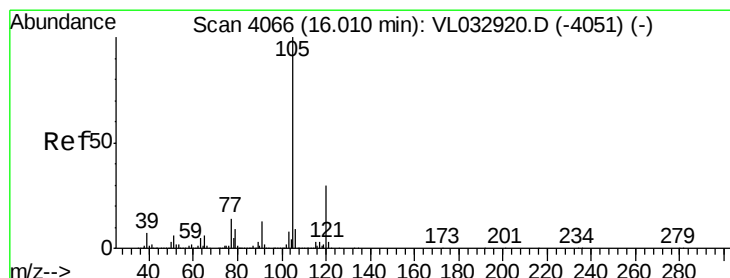
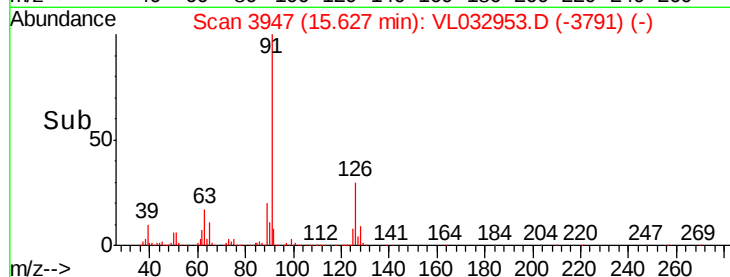
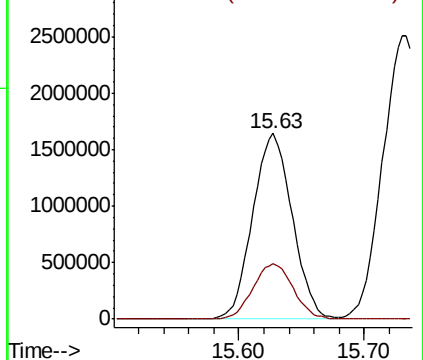
MMDadoda

12/13/2018 7:58:36 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.849 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Tgt Ion:105 Resp: 3962814

Ion Ratio Lower Upper

105 100

120 28.6 23.0 34.4

91 13.1 10.4 15.6

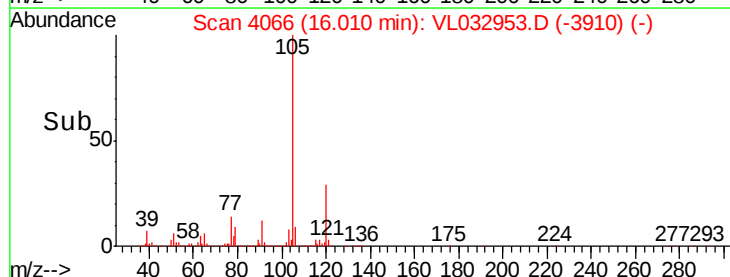
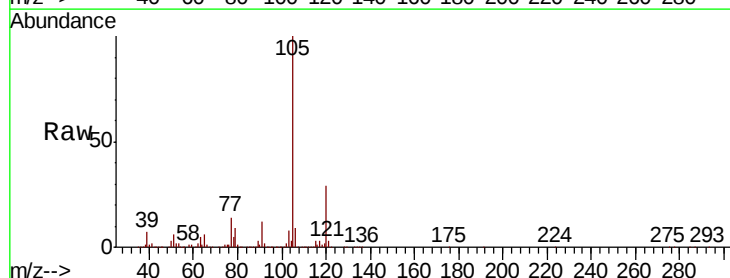
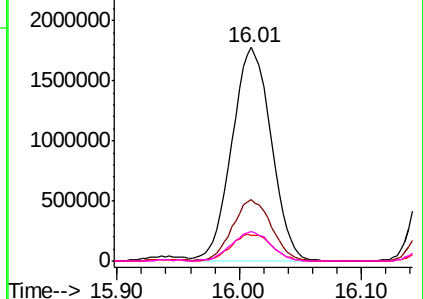
77 13.7 11.0 16.4

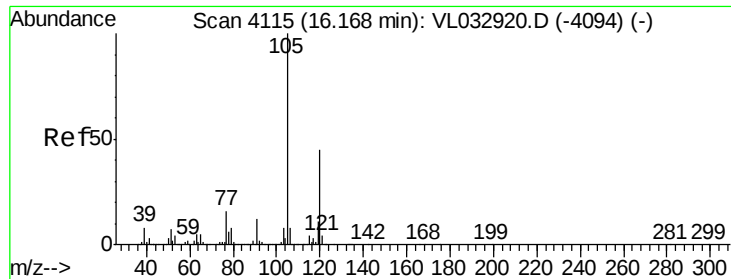
Abundance Ion 105.10 (104.80 to 105.80): V

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





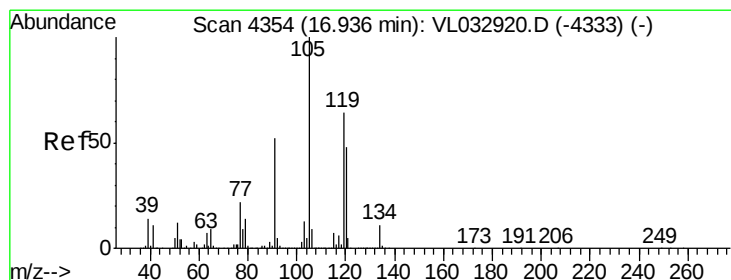
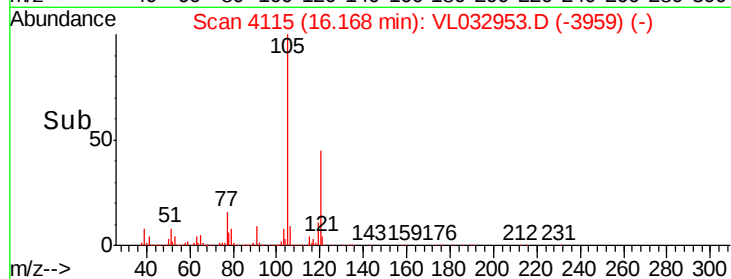
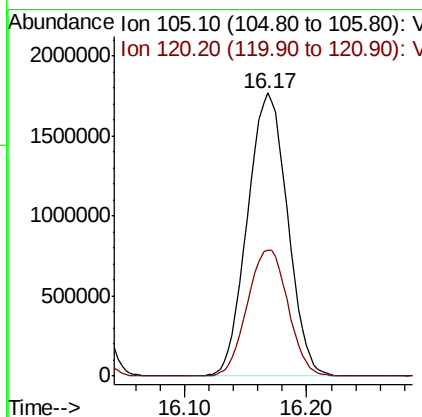
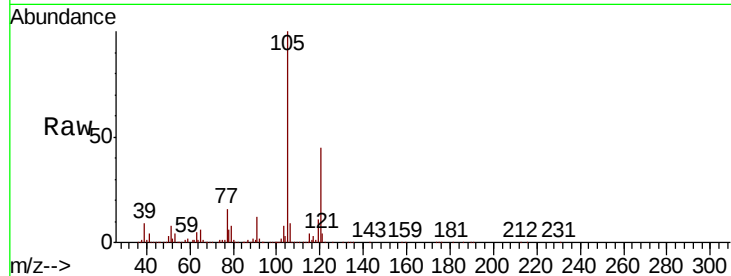
#73
 1,3,5-Trimethylbenzene
 Concen: 11.270 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4018779
 Ion Ratio Lower Upper
 105 100
 120 44.6 36.0 54.0

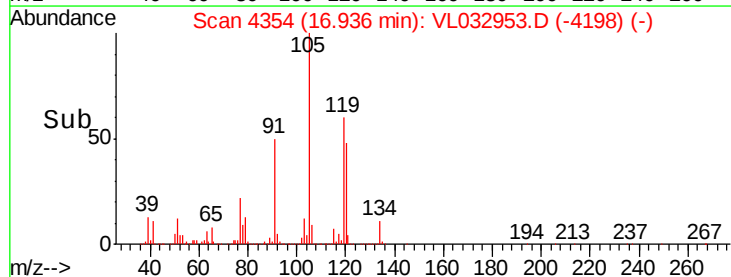
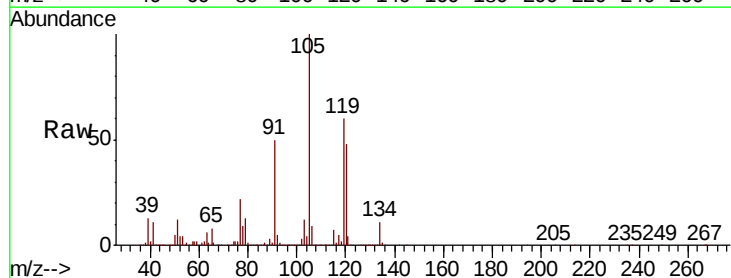
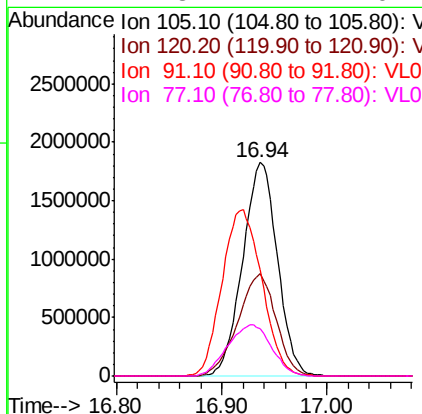
Manual Integrations
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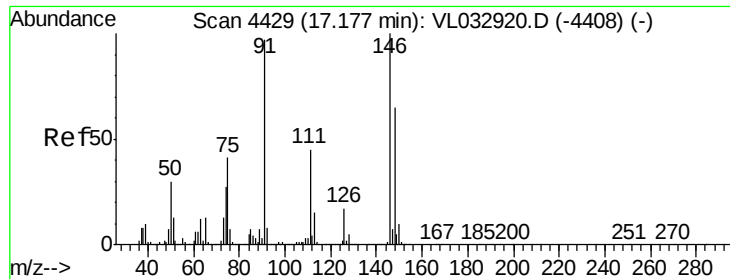
MMDadoda
 12/13/2018 7:58:36 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 10.396 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion:105 Resp: 4185955
 Ion Ratio Lower Upper
 105 100
 120 47.8 38.6 58.0
 91 49.7 41.7 62.5
 77 22.3 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 9.279 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2200137

Ion Ratio Lower Upper

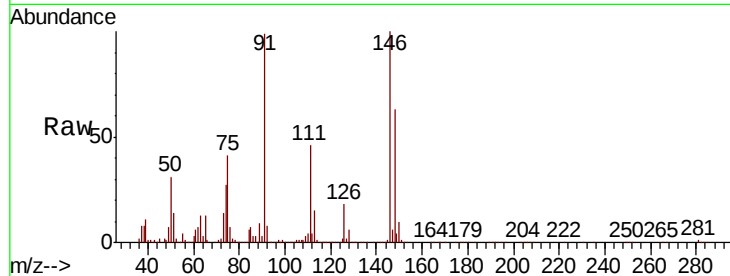
146 100

111 46.9 23.6 70.8

148 64.2 32.1 96.3

Manual Integrations
APPROVED

MMDadoda
12/13/2018 7:58:36 AM

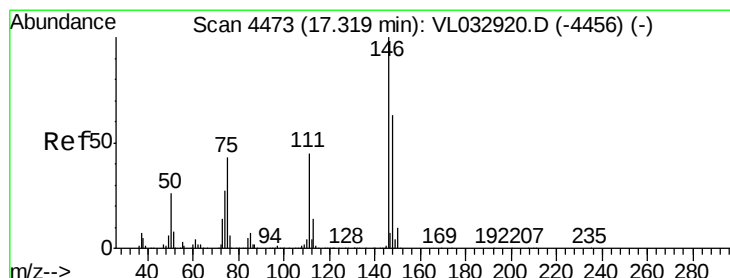
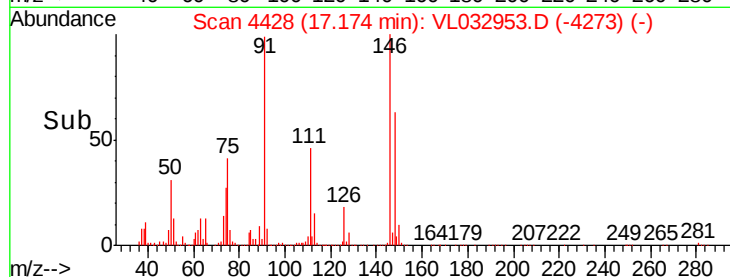
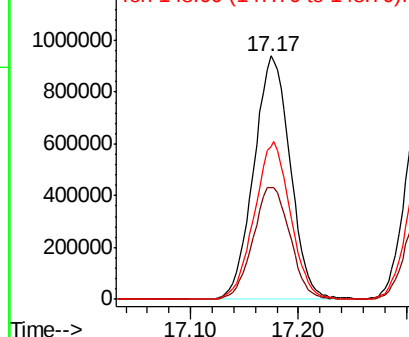


Abundance

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: 9.642 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. -0.00 min

Lab File: VL032953.D

Acq: 11 Dec 2018 12:51

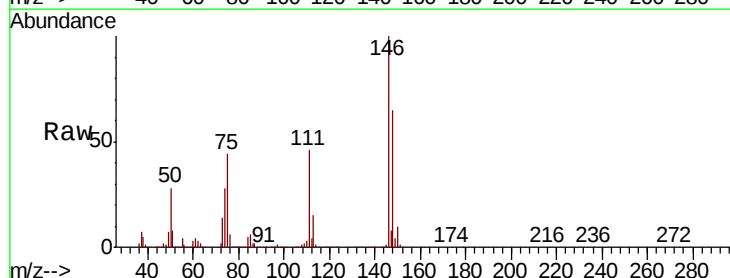
Tgt Ion:146 Resp: 2133252

Ion Ratio Lower Upper

146 100

111 45.3 22.8 68.4

148 64.9 32.0 96.2

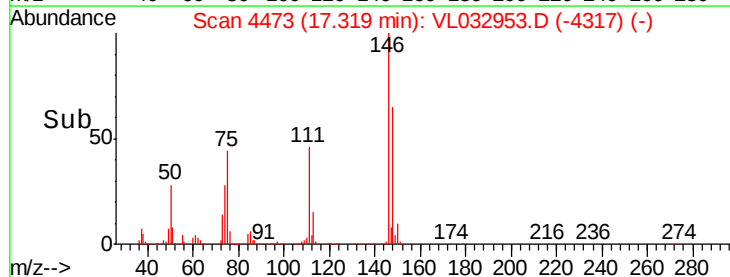
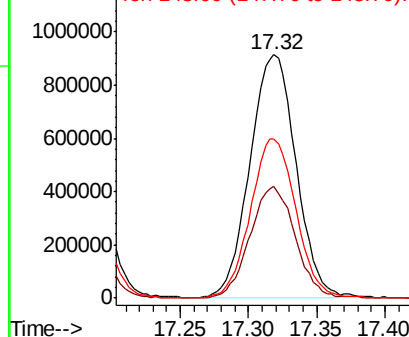


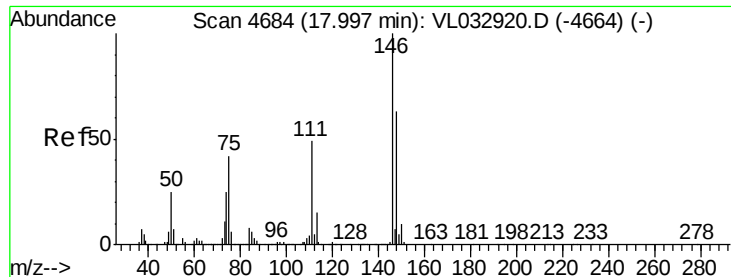
Abundance

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





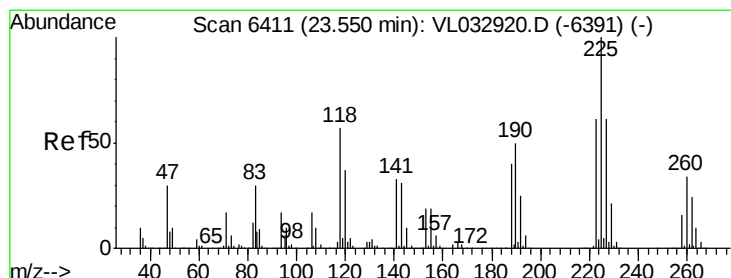
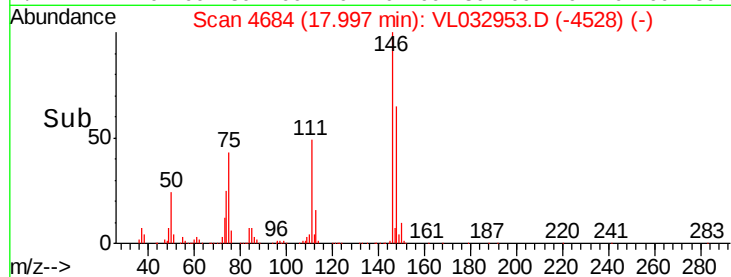
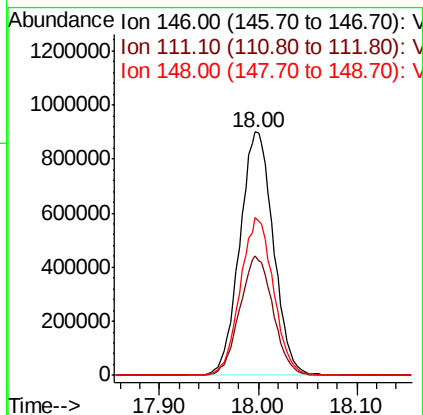
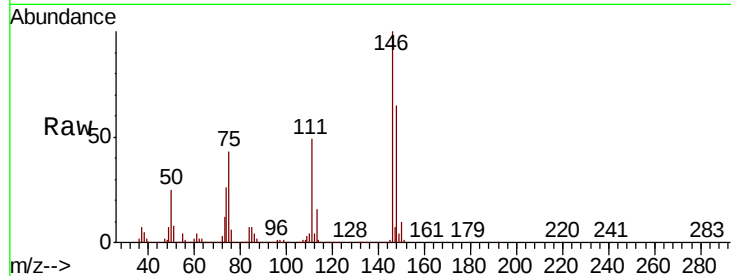
#77
 1,2-Dichlorobenzene
 Concen: 9.579 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	72.9
148	64.1	32.0	96.2

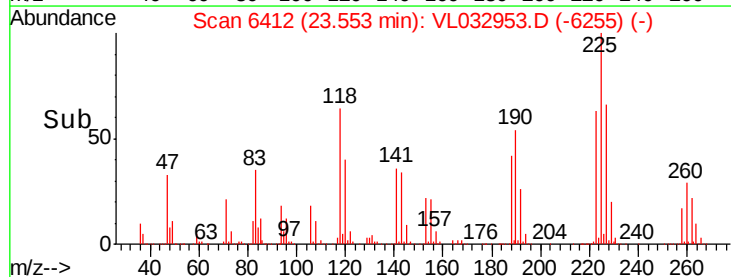
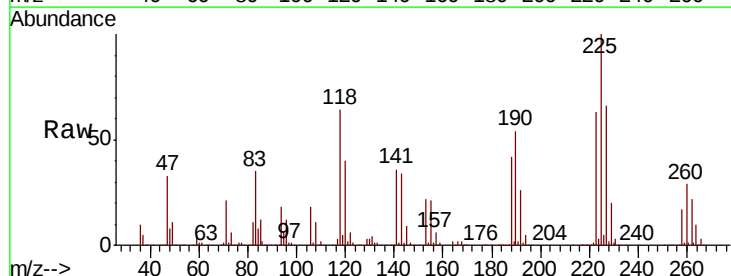
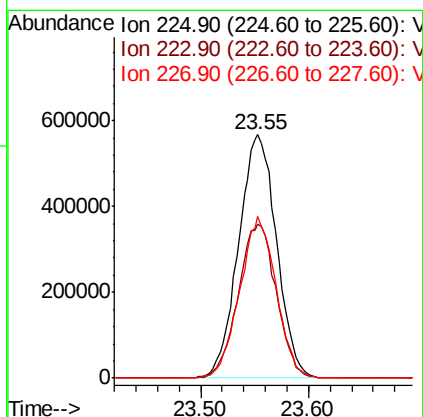
Manual Integrations
 APPROVED

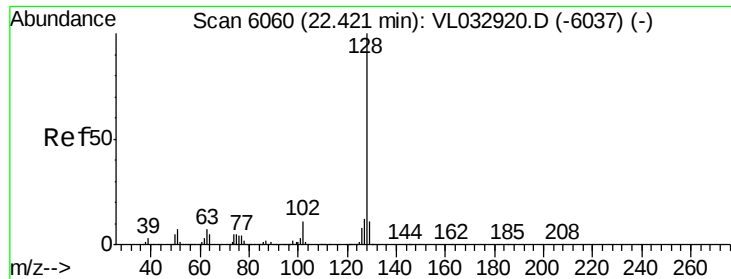
MMDadoda
 12/13/2018 7:58:36 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.356 ppbv
 RT: 23.55 min Scan# 6412
 Delta R.T. 0.00 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.6	75.8
227	63.6	50.4	75.6





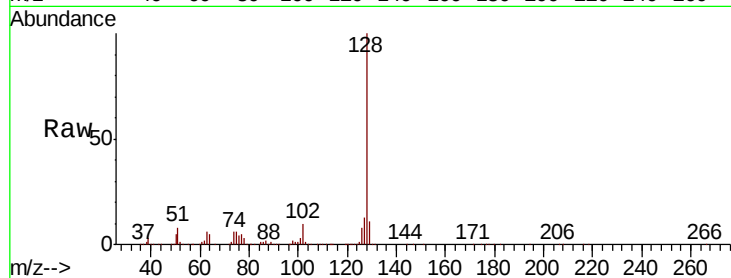
#79
Naphthalene
Concen: 11.491 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.9	14.9
129	10.8	8.6	13.0

Manual Integrations
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12/13/2018 7:58:36 AM

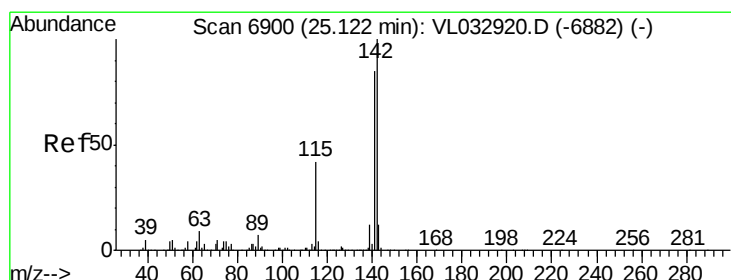
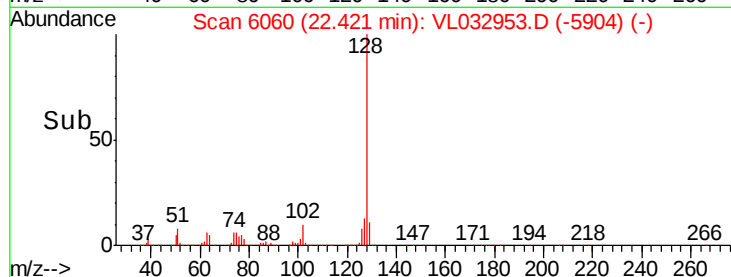
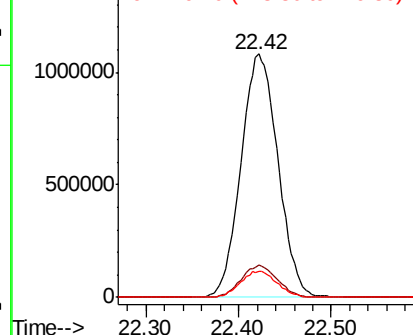


Abundance

Ion 128.10 (127.80 to 128.80): V

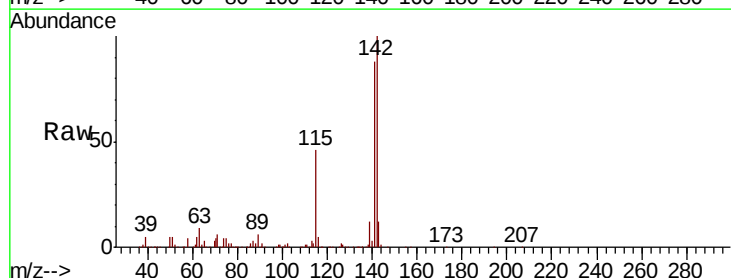
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 16.272 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL032953.D
Acq: 11 Dec 2018 12:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	68.2	102.2
115	44.2	35.1	52.7

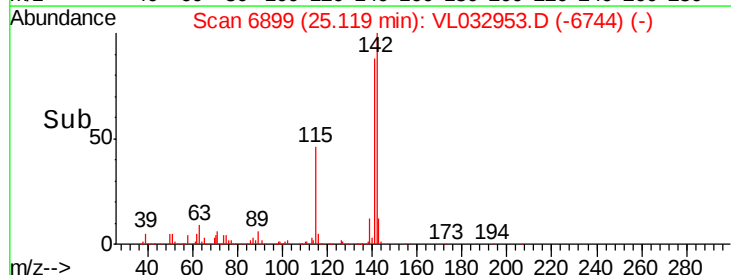
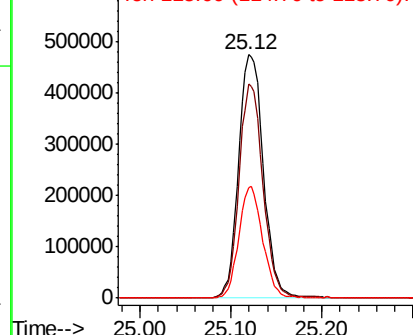


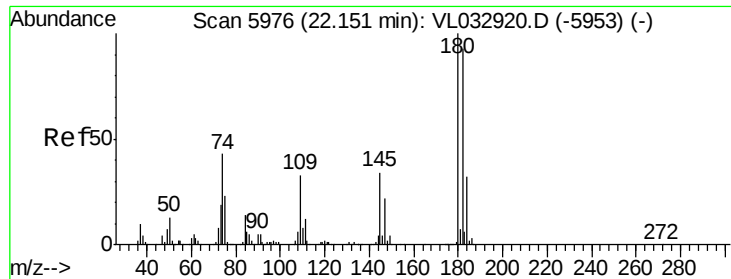
Abundance

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





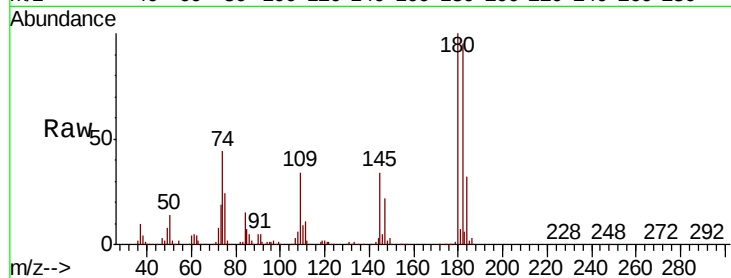
#81
 1,2,4-Trichlorobenzene
 Concen: 10.719 ppbv
 RT: 22.14 min Scan# 5974
 Delta R.T. -0.01 min
 Lab File: VL032953.D
 Acq: 11 Dec 2018 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.0	115.6
184	29.9	24.3	36.5

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

