

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032774.D
 Acq On : 15 Nov 2018 00:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:17 PM

Quant Time: Nov 15 07:26:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:26:42 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1573209	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4099983	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4054386	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2886621	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1996009	8.826	ppbv	100
3) Chlorodifluoromethane	3.02	51	1145592	9.185	ppbv	98
4) Chloromethane	3.17	50	651722	9.423	ppbv	97
5) Vinyl Chloride	3.30	62	661909	9.032	ppbv	97
6) Bromomethane	3.52	94	417991	9.324	ppbv	95
7) Chloroethane	3.61	64	245233	9.285	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	1559757	8.753	ppbv	99
9) Propene	3.04	41	513693	10.292	ppbv	99
10) Heptane	8.26	43	1987858	10.432	ppbv	98
11) Trichlorofluoromethane	4.01	101	1729117	8.114	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1475354	8.475	ppbv	100
13) Ethanol	3.66	45	112658	6.891	ppbv	95
14) Bromoethene	3.80	108	546787	9.468	ppbv	99
15) Acetone	3.91	43	1134132	7.894	ppbv	99
16) 1,3-Butadiene	3.37	39	559347	10.053	ppbv	96
17) tert-Butyl alcohol	4.37	59	473541	10.509	ppbv	100
18) 1,1-Dichloroethene	4.36	96	822980	9.614	ppbv	99
19) Isopropyl Alcohol	4.03	45	828294	8.654	ppbv	99
20) Methylene Chloride	4.42	84	706394	9.497	ppbv	97
21) Allyl Chloride	4.48	41	1341624	11.112	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	765747	9.161	ppbv	96
23) Vinyl Acetate	5.16	43	2732428	10.433	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1959121	9.409	ppbv	99
25) Ethyl Acetate	5.78	43	3221216	9.620	ppbv	99
26) Hexane	5.79	57	1481942	9.942	ppbv	99
27) Carbon Disulfide	4.62	76	1930634	10.215	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2496558	10.503	ppbv	99
29) Chloroform	5.86	83	2410837	9.075	ppbv	97
30) Cyclohexane	7.26	84	1368199	10.495	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1545070	10.310	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2620659	8.999	ppbv	99
34) 2-Butanone	5.34	43	2096838	9.860	ppbv	98
35) Carbon Tetrachloride	7.14	117	2787638	8.458	ppbv	98
36) Benzene	7.01	78	3290832	10.079	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1970343	8.965	ppbv	98
38) Trichloroethene	7.97	130	1254304	9.493	ppbv	95
39) 1,2-Dichloropropane	7.74	63	1247969	10.032	ppbv	98
40) 1,4-Dioxane	7.96	88	448130	10.086	ppbv	88
41) Tetrahydrofuran	6.16	42	1294581	10.613	ppbv	100
42) Bromodichloromethane	7.93	83	2759734	9.263	ppbv	99
43) Methyl Methacrylate	8.14	69	1295716	10.630	ppbv	98

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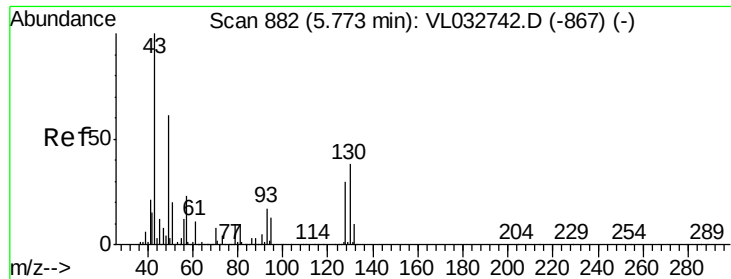
Manual Integrations
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Quant Time: Nov 15 07:26:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:26:42 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5347967	9.802	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1879402	11.491	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	2159278	10.928	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1394567	9.481	ppbv	98
48) Dibromochloromethane	10.46	129	2343574	9.374	ppbv	100
49) Bromoform	13.21	173	1850067	8.961	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3293907	9.917	ppbv	99
51) 2-Hexanone	10.28	43	2336509	10.919	ppbv	100
52) Tetrachloroethene	11.38	164	1108088	9.757	ppbv	96
53) Toluene	9.95	91	3700351	10.864	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2022935	9.729	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1628389	8.611	ppbv	99
57) Chlorobenzene	12.31	112	2732955	8.806	ppbv	99
58) Ethyl Benzene	12.87	91	4868689	9.978	ppbv	99
59) m/p-Xylene	13.13	91	8068832m	18.576	ppbv	
60) o-Xylene	13.86	91	3881730	8.888	ppbv	99
61) Styrene	13.69	104	2960784	10.414	ppbv	99
62) Isopropylbenzene	14.83	105	5448559	9.229	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2614612	7.679	ppbv	100
64) n-propylbenzene	15.73	120	1385258	8.921	ppbv	98
65) tert-Butylbenzene	16.92	119	4649731	8.786	ppbv	99
66) Benzyl Chloride	17.16	91	2700240	9.229	ppbv	100
67) sec-Butylbenzene	17.47	105	6618761	8.678	ppbv	100
69) p-Isopropyltoluene	17.82	119	5444628	8.978	ppbv	99
70) n-Butylbenzene	18.72	91	5600414	9.095	ppbv	100
71) 2-Chlorotoluene	15.62	91	4058383	9.218	ppbv	100
72) 4-Ethyltoluene	16.01	105	4388498	9.167	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	4145840	8.858	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	4203925	8.393	ppbv #	92
75) 1,3-Dichlorobenzene	17.17	146	2354836	8.196	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2356841	8.782	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2344834	8.822	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1738810	12.122	ppbv	100
79) Naphthalene	22.42	128	4207688	12.788	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1123259	13.630	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1961986	11.874	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

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Tot Ion: 49 Resp: 1573209

Ion Ratio Lower Upper

49 100

128 50.0 24.9 74.6

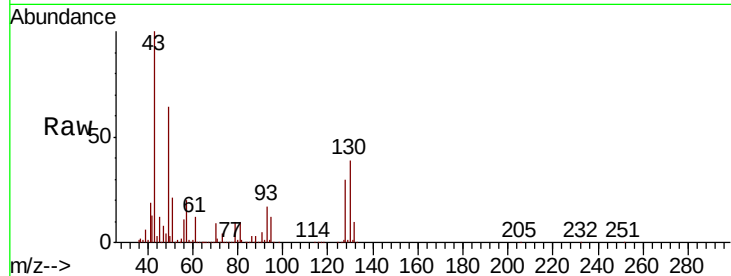
130 63.6 31.4 94.2

Manual Integrations

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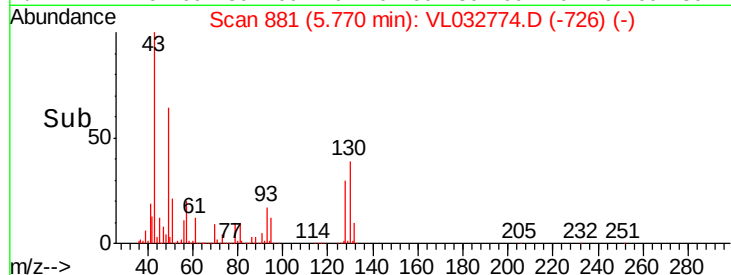


Abundance Ion 49.10 (48.80 to 49.80): VL0

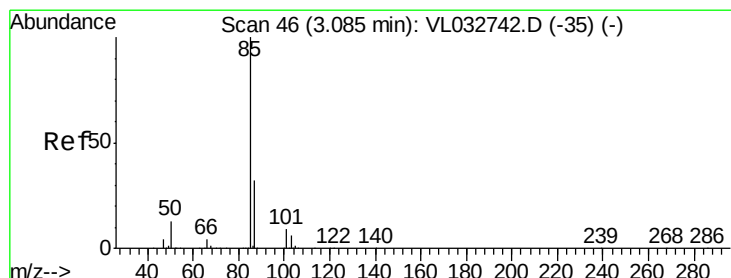
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 8.826 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032774.D

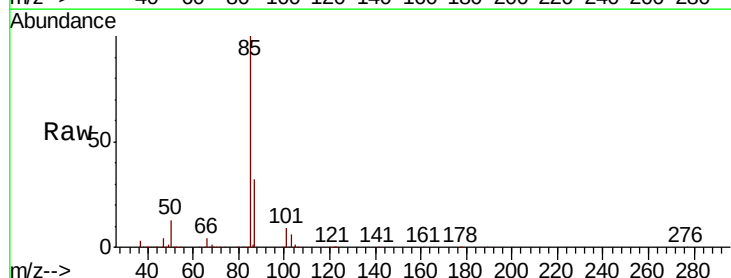
Acq: 15 Nov 2018 00:57

Tgt Ion: 85 Resp: 1996009

Ion Ratio Lower Upper

85 100

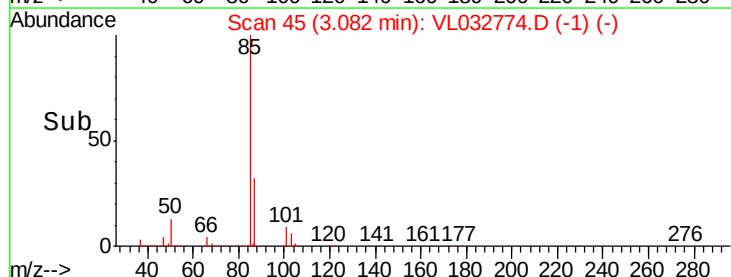
87 32.4 26.0 39.0



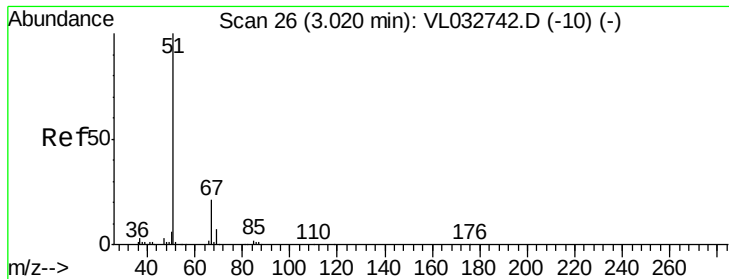
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 9.185 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tot Ion: 51 Resp: 1145592

Ion Ratio Lower Upper

51 100

67 19.3 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

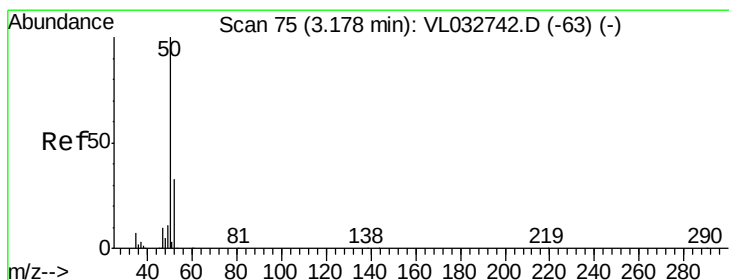
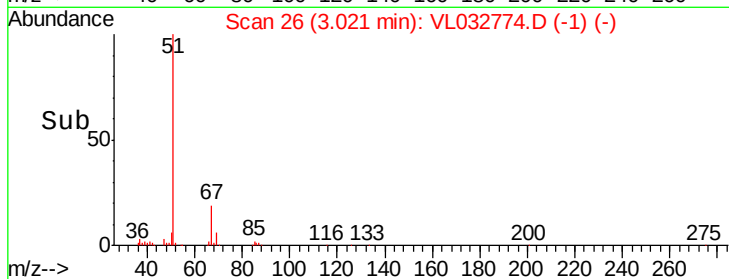
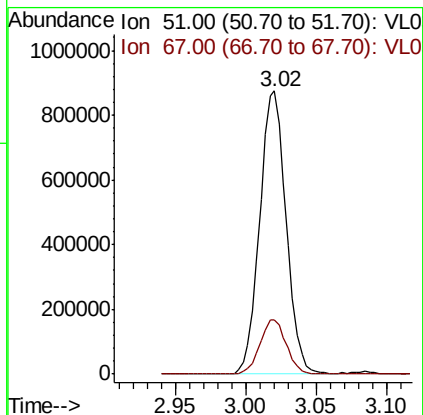
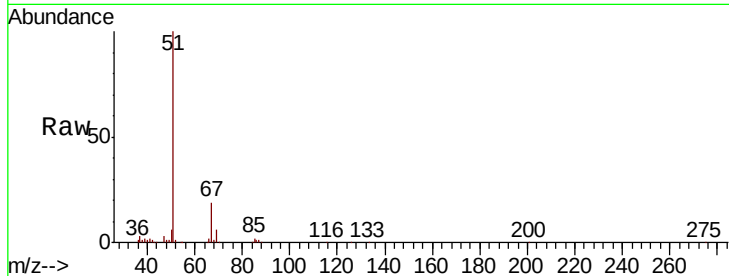
VSTDCCC010EC

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#4

Chloromethane

Concen: 9.423 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032774.D

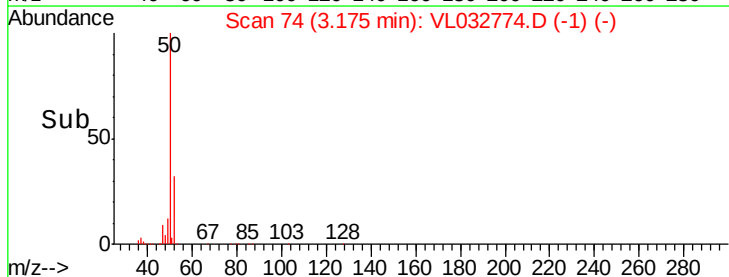
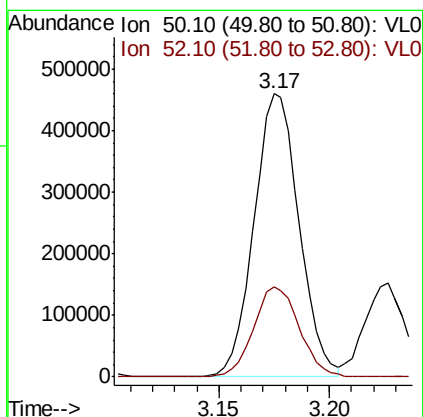
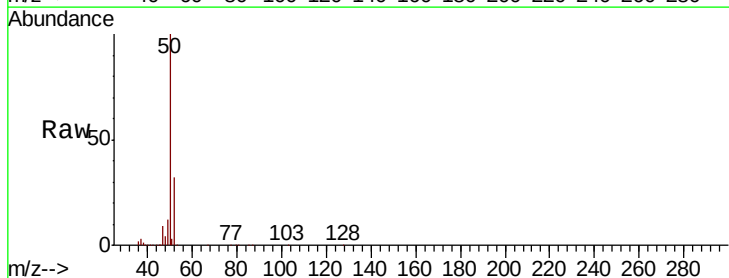
Acq: 15 Nov 2018 00:57

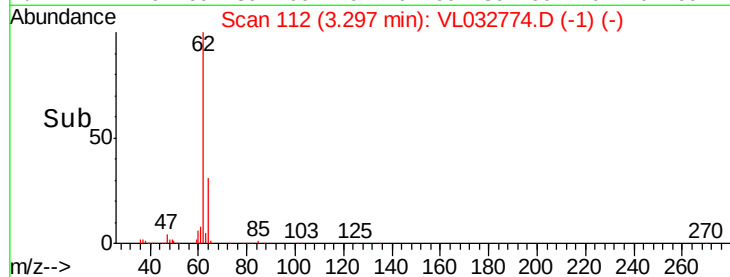
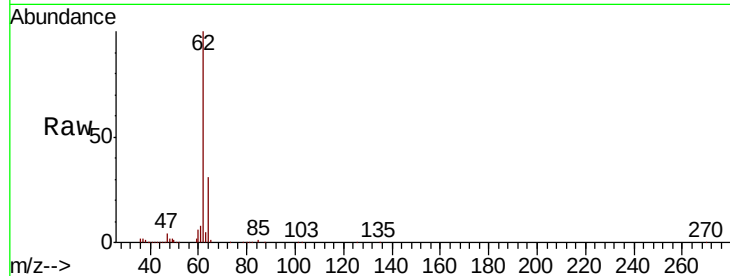
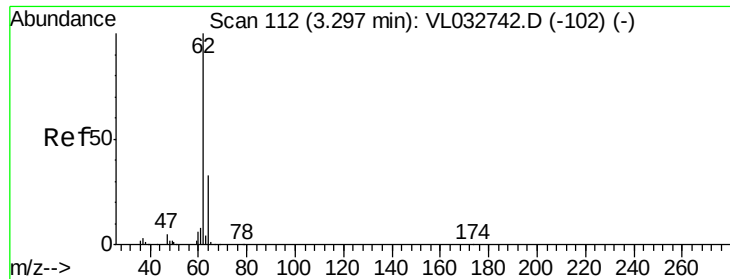
Tgt Ion: 50 Resp: 651722

Ion Ratio Lower Upper

50 100

52 31.7 26.6 40.0





#5

Vinyl Chloride

Concen: 9.032 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tot Ion: 62 Resp: 661909

Ion Ratio Lower Upper

62 100

64 31.4 26.2 39.4

Instrument :

MSVOA_L

ClientSampleId :

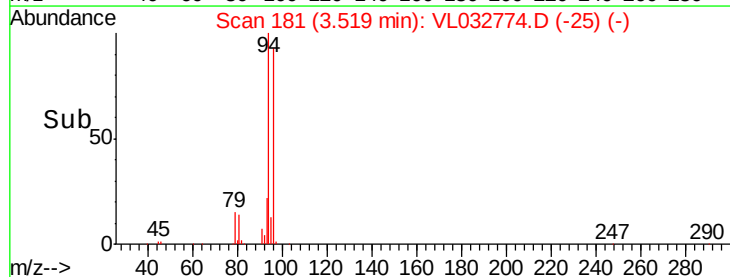
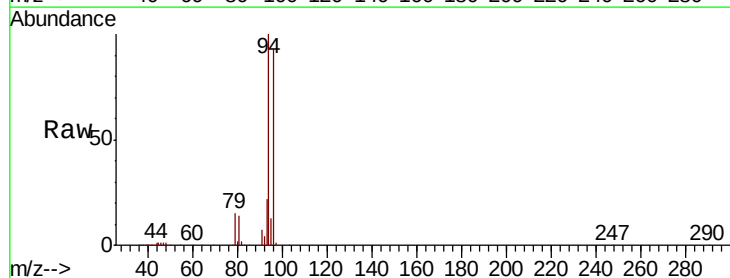
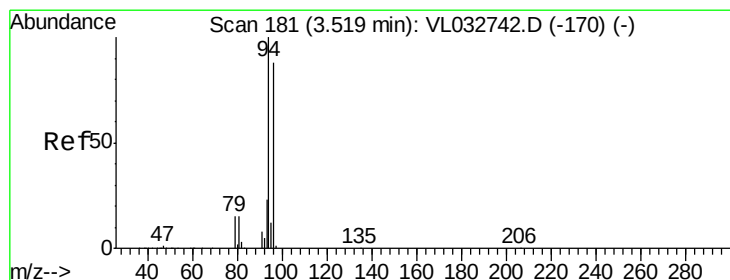
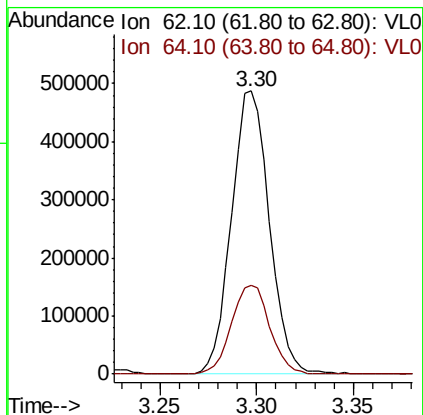
VSTDCCC010EC

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#6

Bromomethane

Concen: 9.324 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032774.D

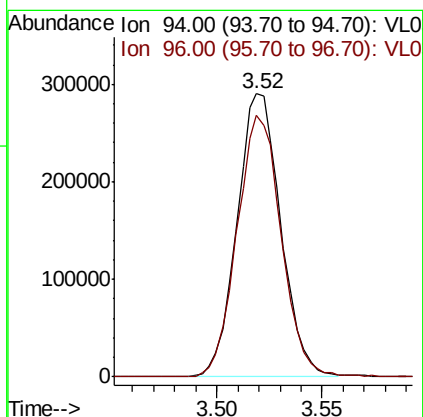
Acq: 15 Nov 2018 00:57

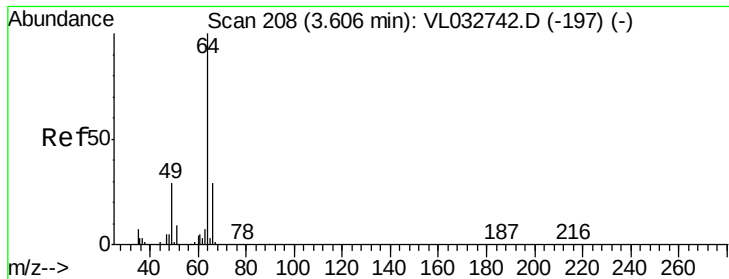
Tgt Ion: 94 Resp: 417991

Ion Ratio Lower Upper

94 100

96 92.5 70.2 105.2





#7

Chloroethane

Concen: 9.285 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 245233

Ion Ratio Lower Upper

64 100

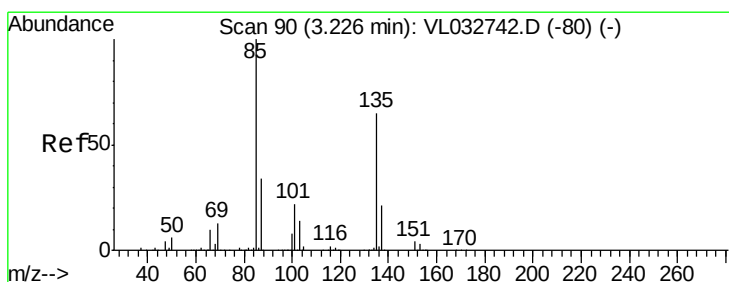
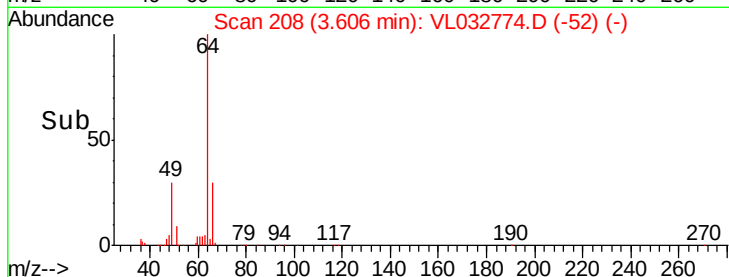
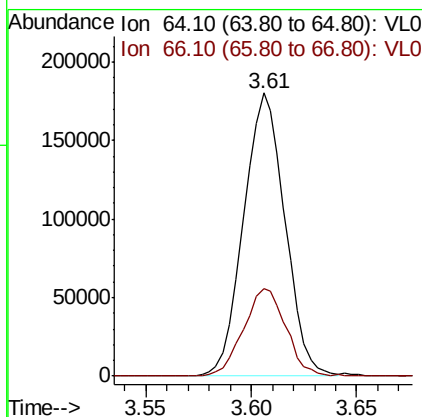
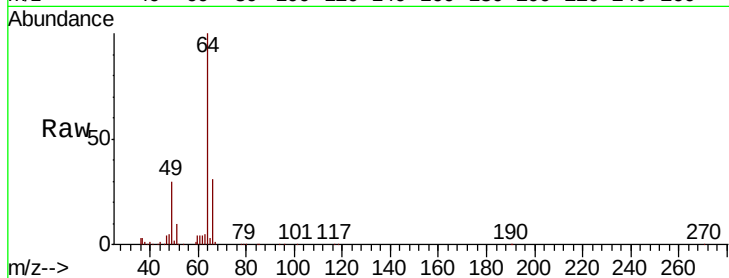
66 31.1 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.753 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032774.D

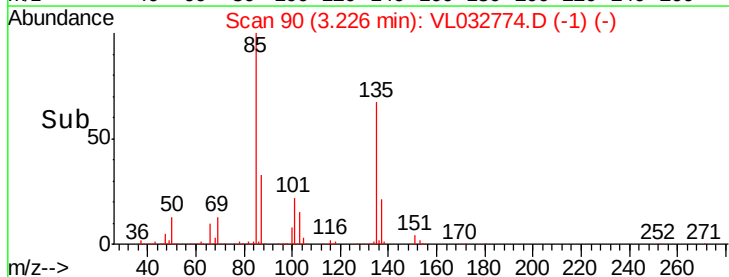
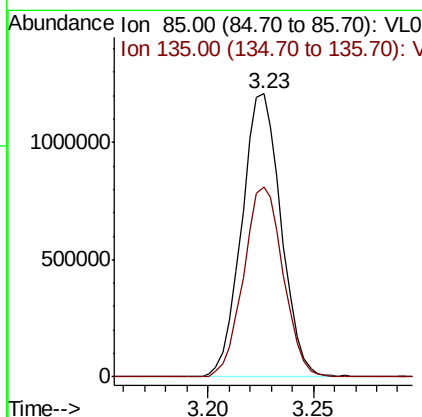
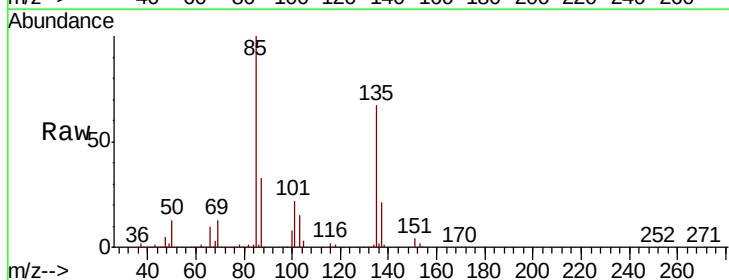
Acq: 15 Nov 2018 00:57

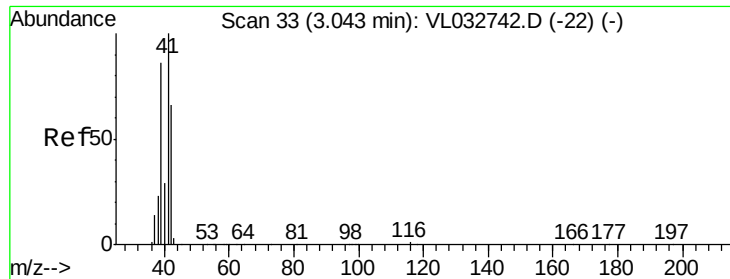
Tgt Ion: 85 Resp: 1559757

Ion Ratio Lower Upper

85 100

135 68.0 53.8 80.8





#9

Propene

Concen: 10.292 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 513693

Ion Ratio Lower Upper

41 100

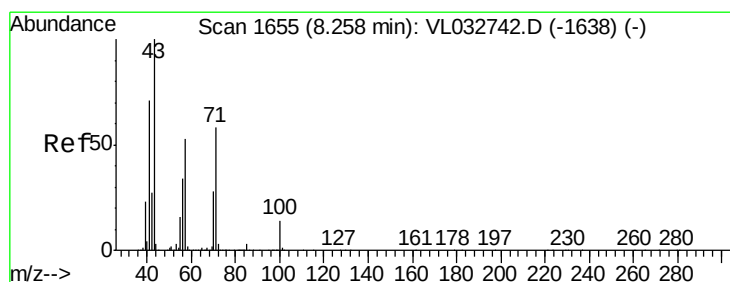
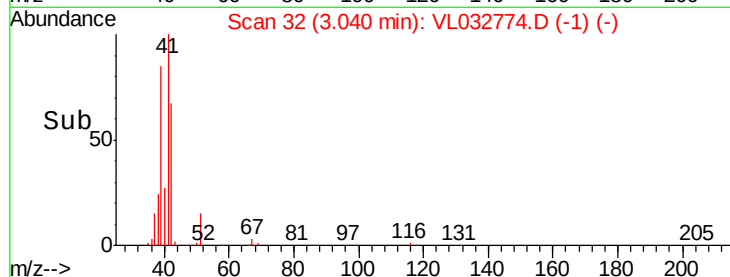
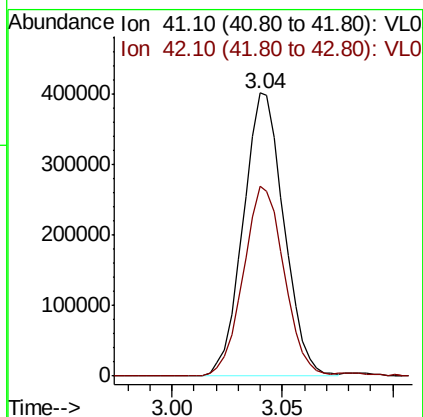
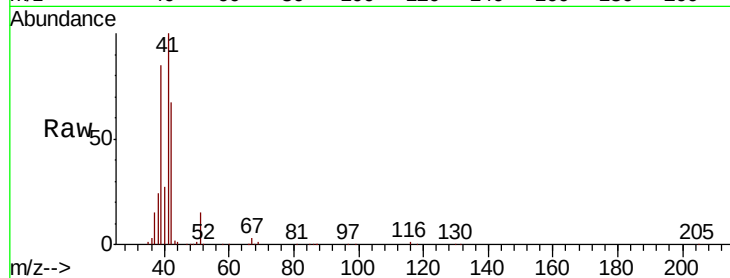
42 68.3 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 10.432 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032774.D

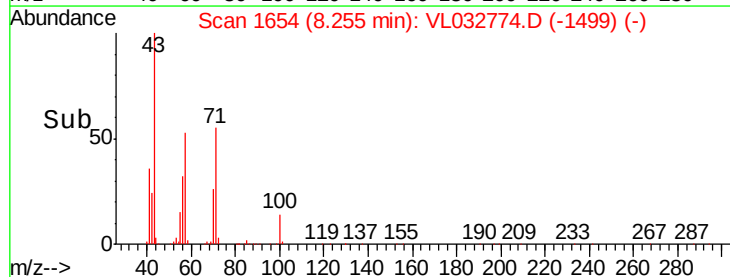
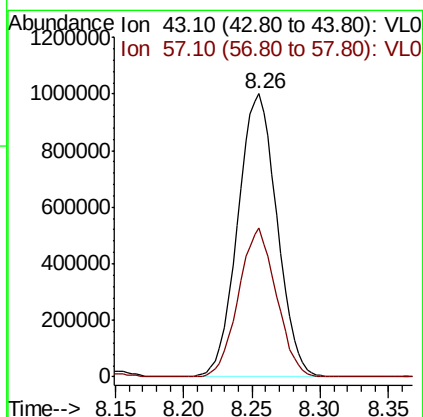
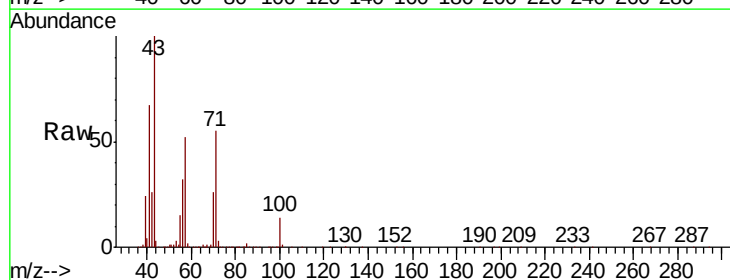
Acq: 15 Nov 2018 00:57

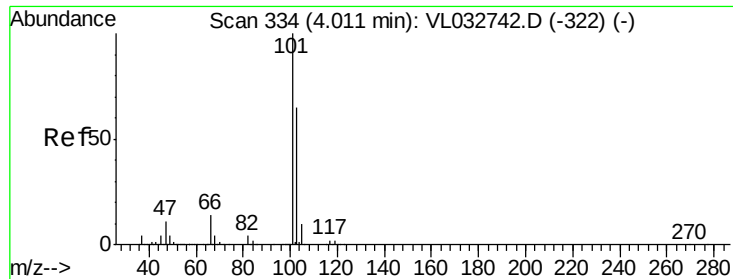
Tgt Ion: 43 Resp: 1987858

Ion Ratio Lower Upper

43 100

57 50.9 41.8 62.8





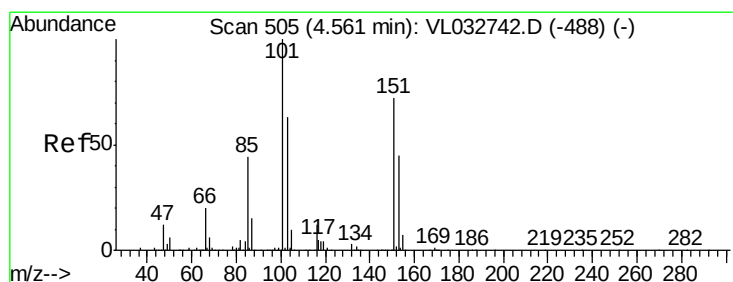
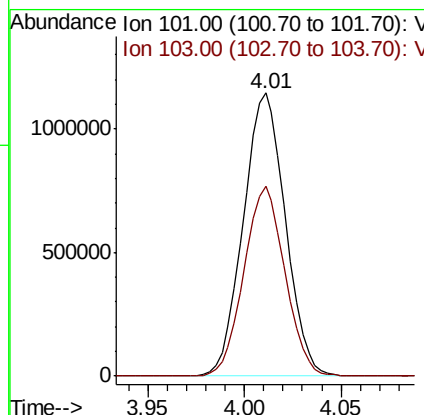
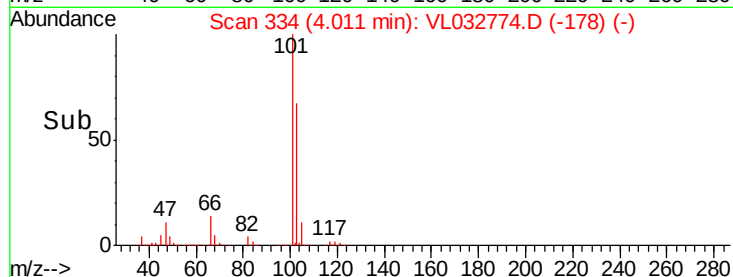
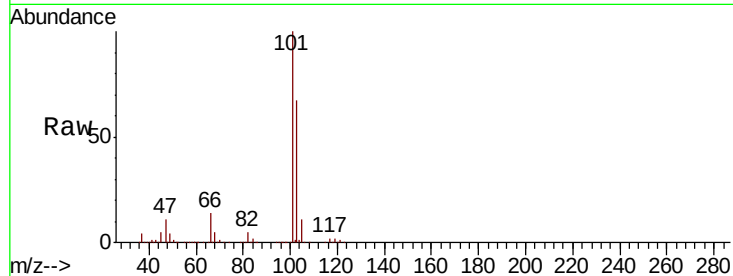
#11
 Trichlorofluoromethane
 Concen: 8.114 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1729117
 Ion Ratio Lower Upper
 101 100
 103 67.1 51.6 77.4

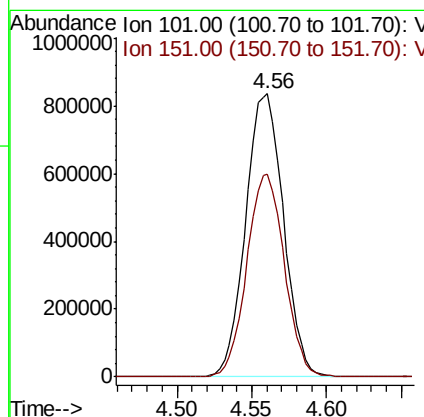
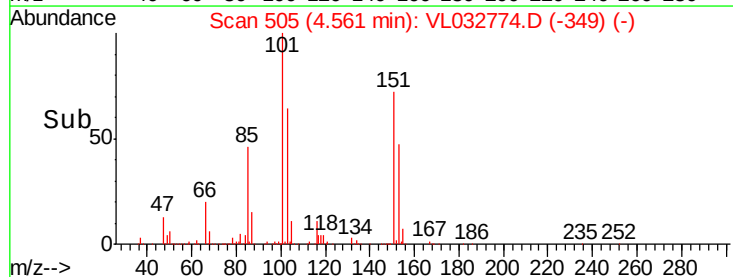
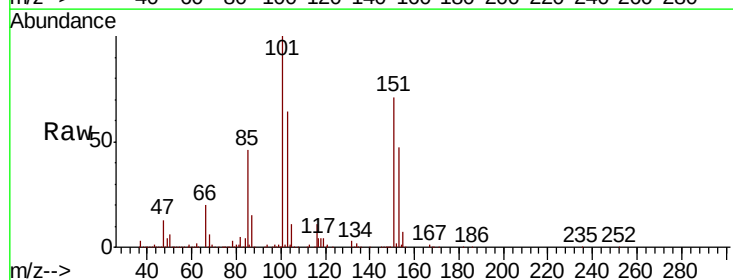
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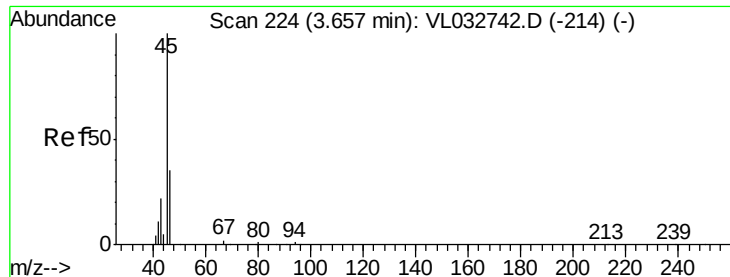
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.475 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion:101 Resp: 1475354
 Ion Ratio Lower Upper
 101 100
 151 71.1 56.7 85.1





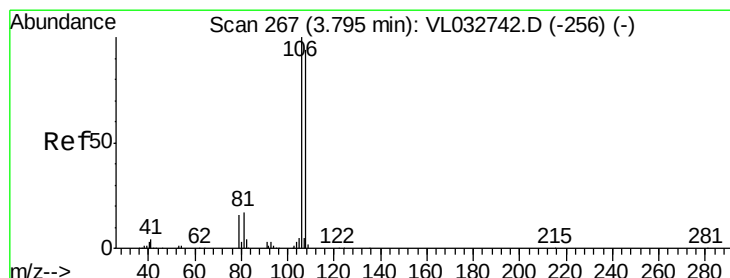
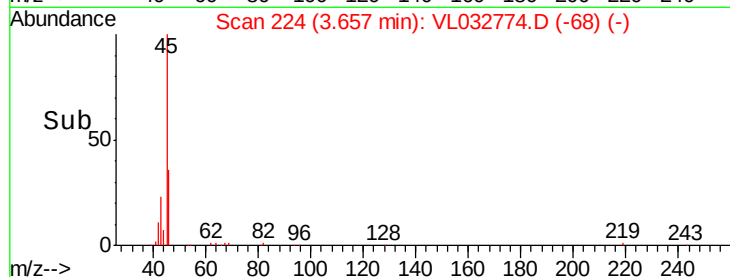
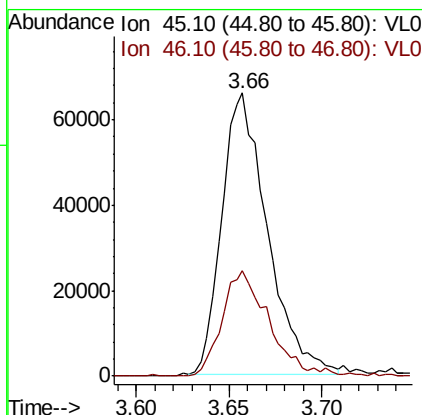
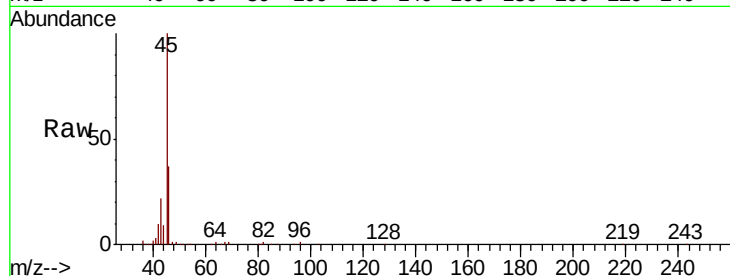
#13
Ethanol
Concen: 6.891 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
112658	100	38.9		14.5	57.9

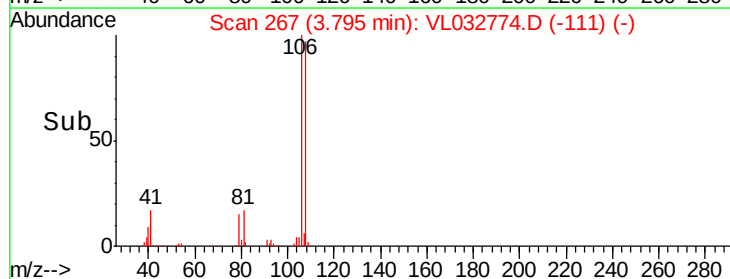
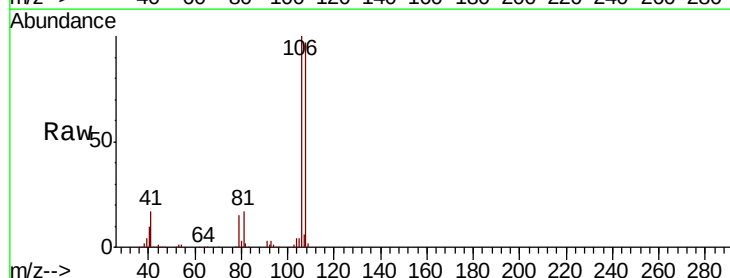
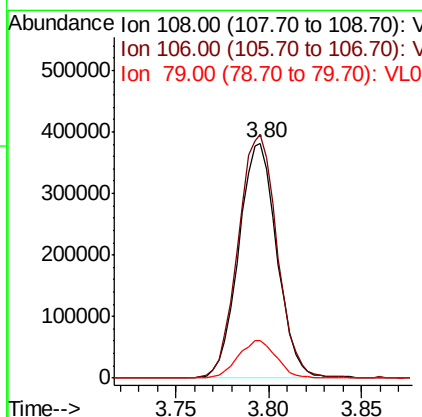
Manual Integrations
APPROVED

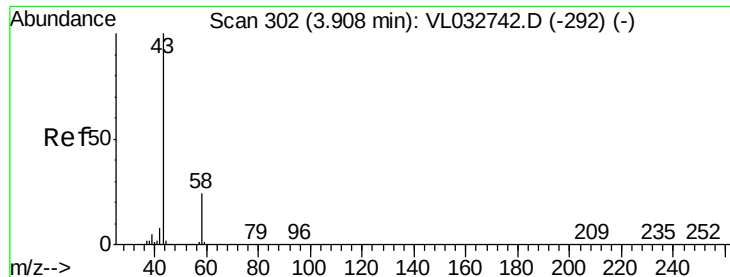
MMDadoda
11/16/2018 1:30:17 PM



#14
Bromoethene
Concen: 9.468 ppbv
RT: 3.80 min Scan# 267
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion	108	106	79	Ratio	Lower	Upper
546787	100	106.4	16.7		84.9	127.3
					14.2	21.4





#15

Acetone

Concen: 7.894 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tot Ion: 43 Resp: 1134132

Ion Ratio Lower Upper

43 100

58 26.8 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

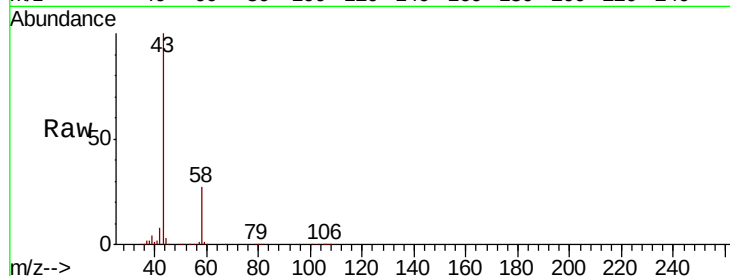
VSTDCCC010EC

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

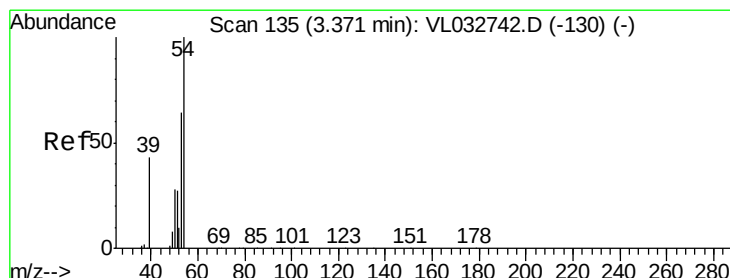
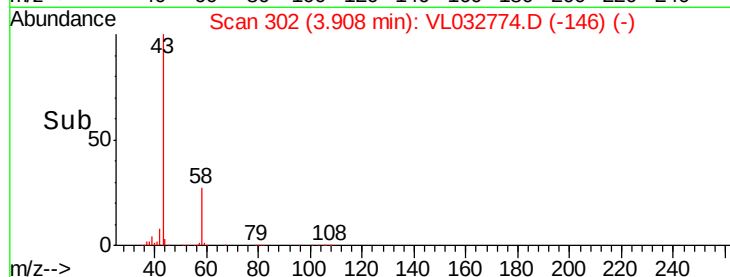
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.053 ppbv

RT: 3.37 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL032774.D

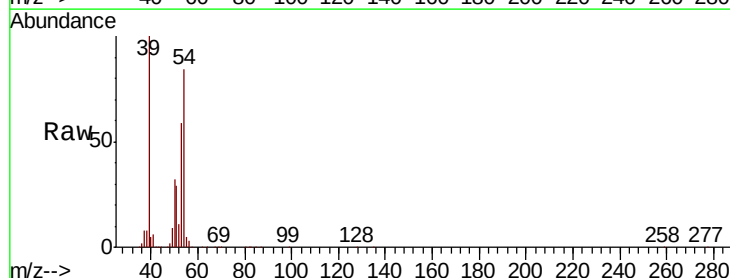
Acq: 15 Nov 2018 00:57

Tgt Ion: 39 Resp: 559347

Ion Ratio Lower Upper

39 100

54 89.6 68.9 103.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

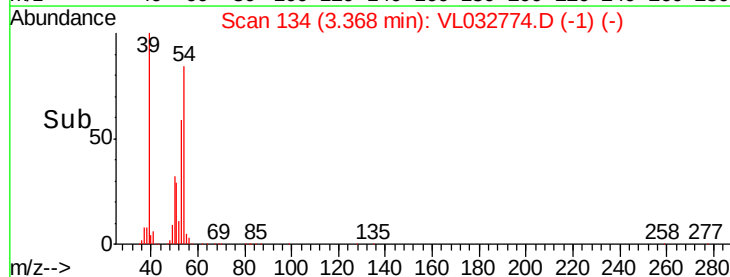
200000

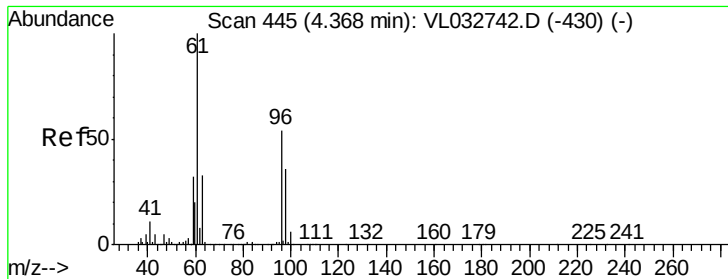
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

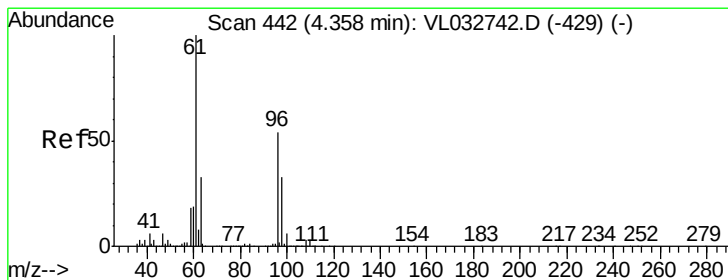
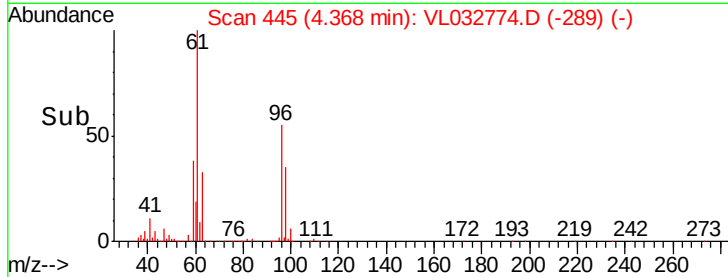
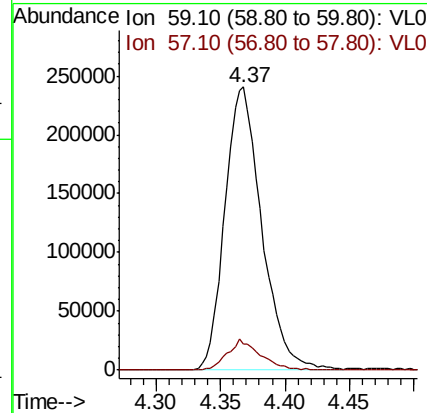
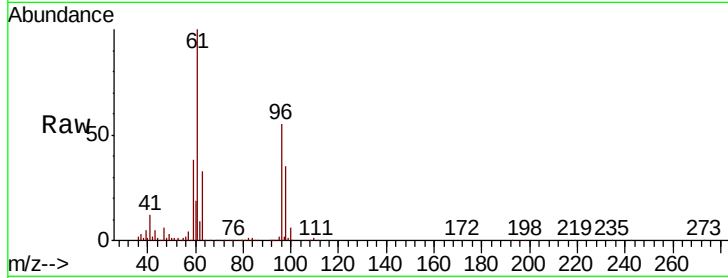
tert-Butyl alcohol
Concen: 10.509 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Resp	473541
Ion Ratio	59	100	
Lower	57	9.8	7.8
Upper			11.8

Manual Integrations
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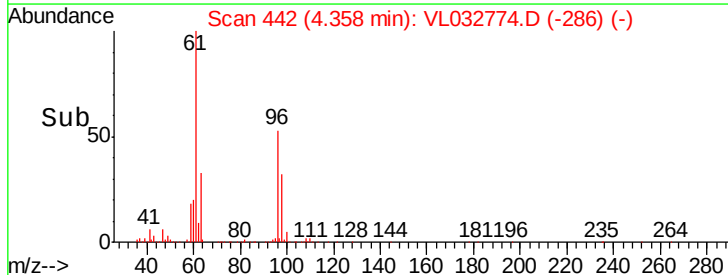
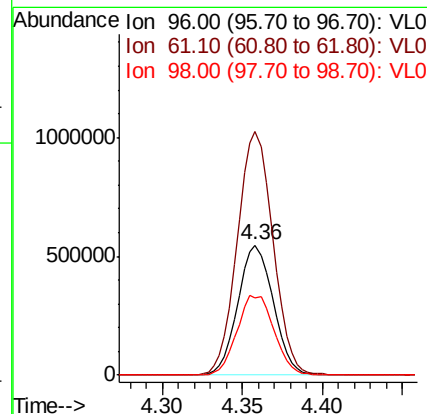
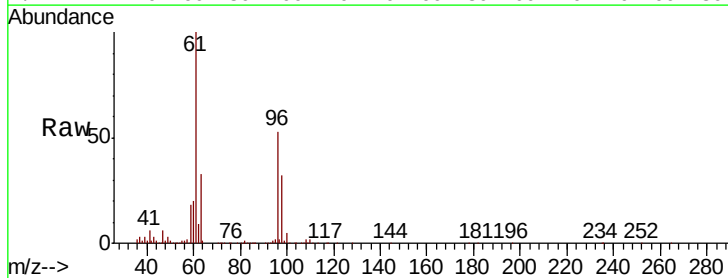
MMDadoda
11/16/2018 1:30:17 PM

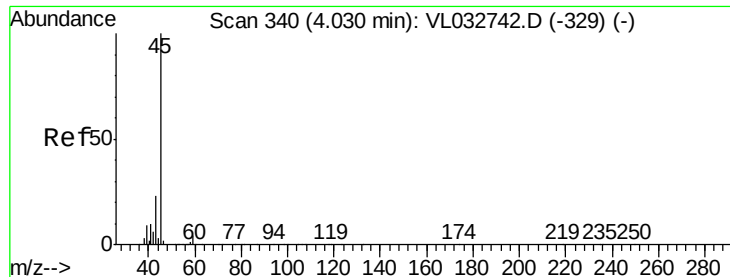


#18

1,1-Dichloroethene
Concen: 9.614 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion	96	Resp	822980
Ion Ratio	96	100	
Lower	61	186.8	148.5
Upper	98	59.1	48.6
			72.8





#19

Isopropyl Alcohol

Concen: 8.654 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tot Ion: 45 Resp: 828294

Ion Ratio Lower Upper

45 100

58 1.5 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

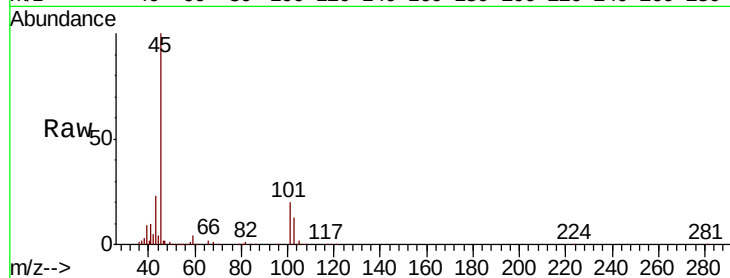
VSTDCCC010EC

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

500000

400000

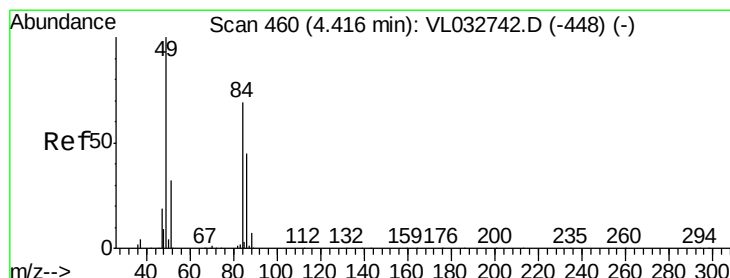
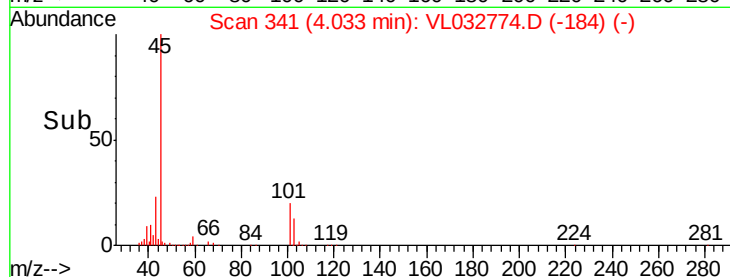
300000

200000

100000

0

Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 9.497 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tgt Ion: 84 Resp: 706394

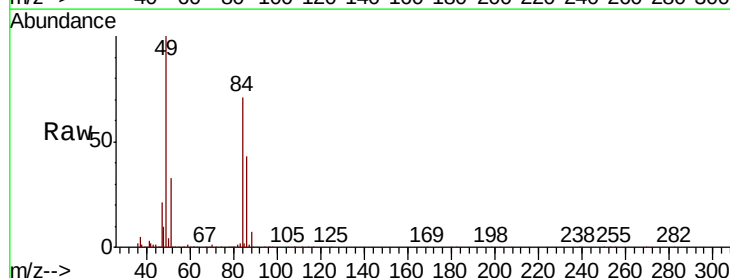
Ion Ratio Lower Upper

84 100

49 140.9 115.8 173.6

51 46.0 36.9 55.3

86 60.7 52.4 78.6



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

1000000

800000

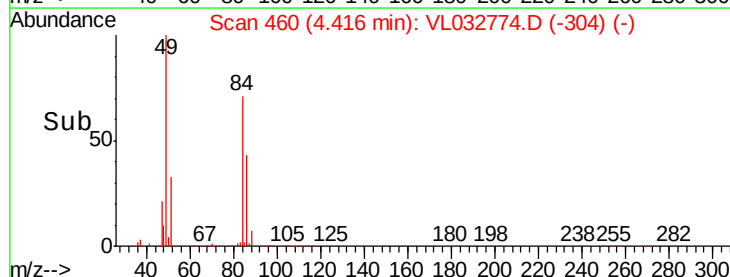
600000

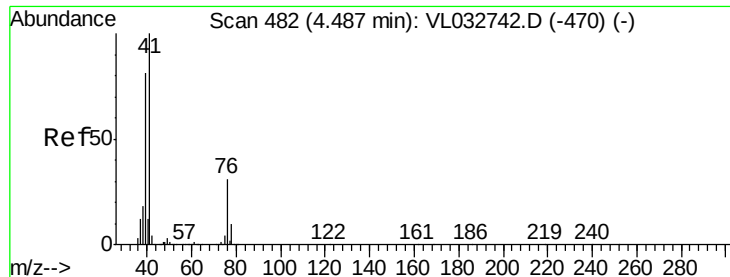
400000

200000

0

Time--> 4.35 4.40 4.45





#21

Allvl Chloride

Concen: 11.112 ppbv

RT: 4.48 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

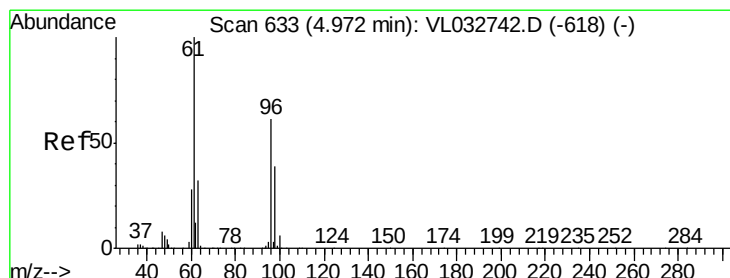
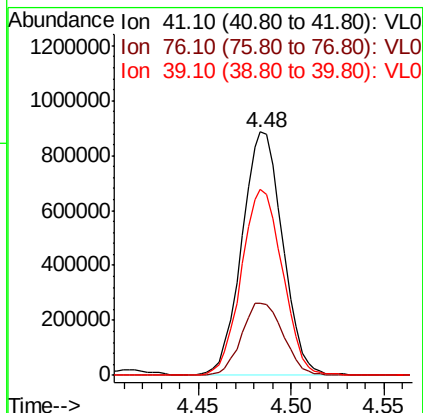
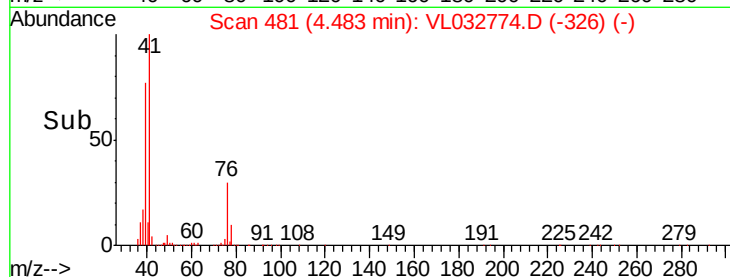
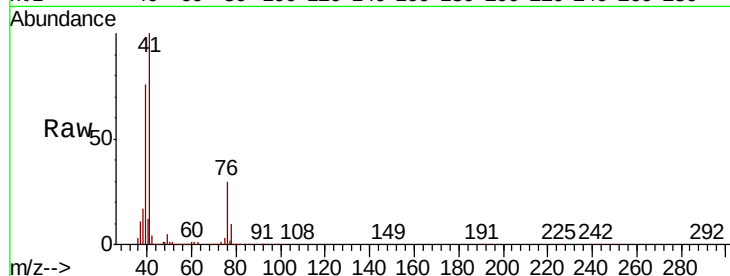
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	1341624
Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.4	36.6
39	77.6	63.5	95.3

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#22

trans-1,2-Dichloroethene

Concen: 9.161 ppbv

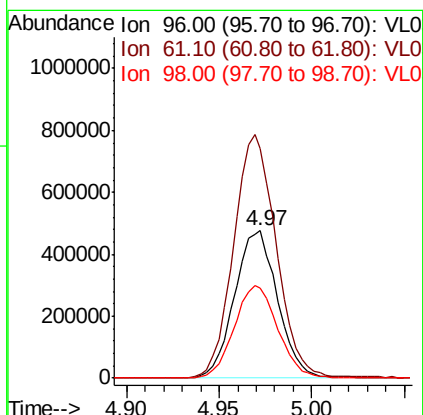
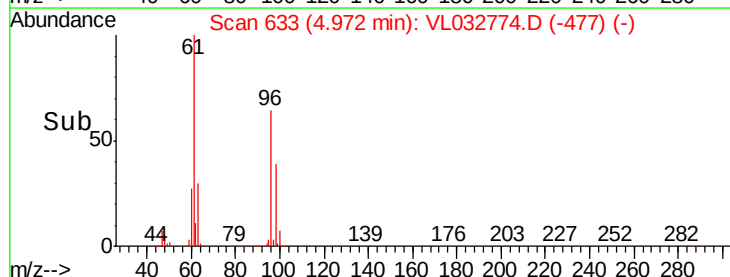
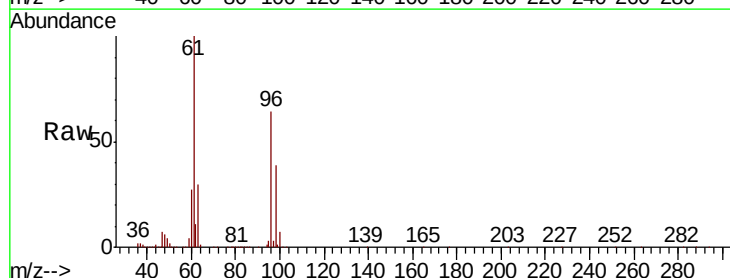
RT: 4.97 min Scan# 633

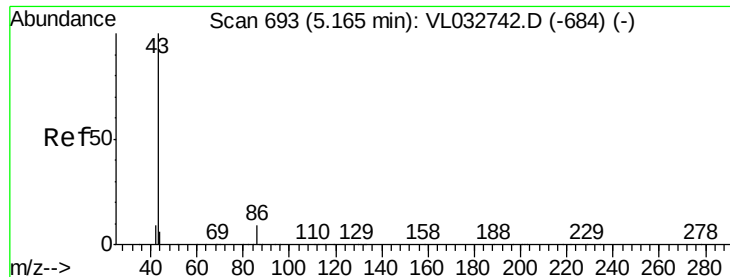
Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tgt Ion:	96	Resp:	765747
Ion	Ratio	Lower	Upper
96	100		
61	156.1	130.2	195.2
98	61.0	50.2	75.2





#23

Vinyl Acetate

Concen: 10.433 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 43 Resp: 2732428

Ion Ratio Lower Upper

43 100

86 8.4 6.2 9.4

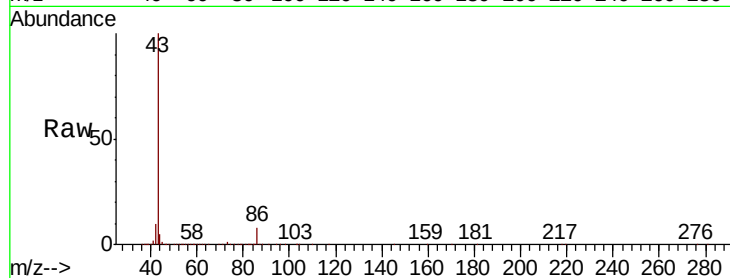
42 10.1 7.8 11.6

44 5.0 4.4 6.6

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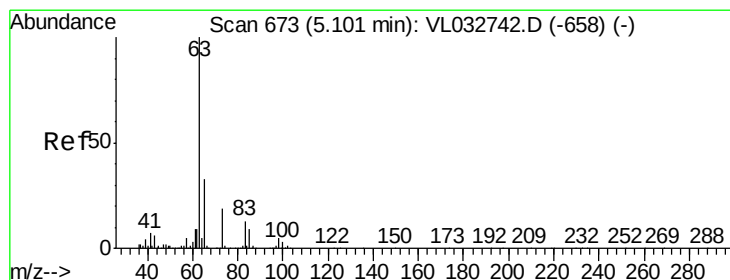
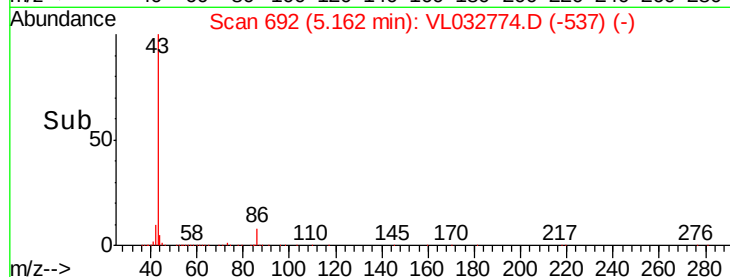
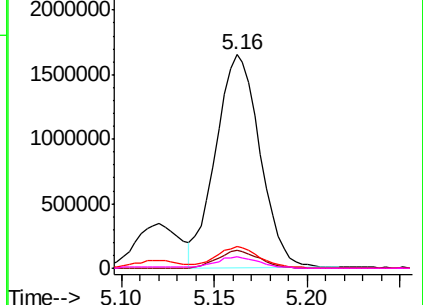


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.409 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

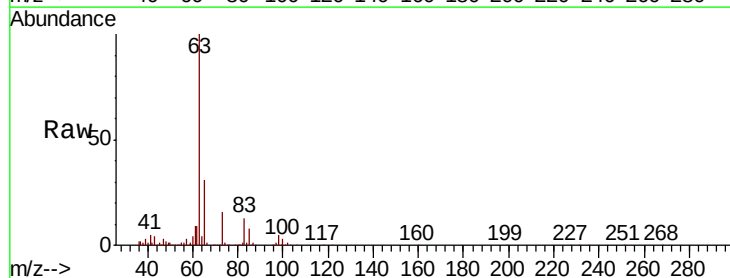
Tgt Ion: 63 Resp: 1959121

Ion Ratio Lower Upper

63 100

98 5.0 2.3 6.8

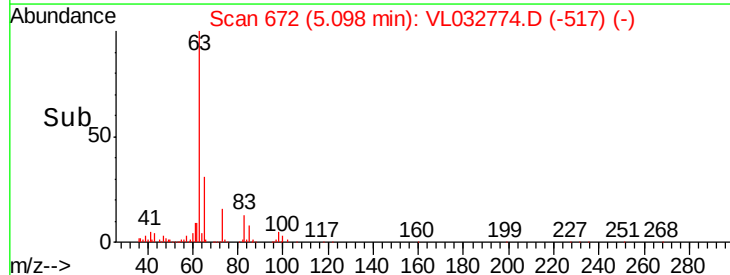
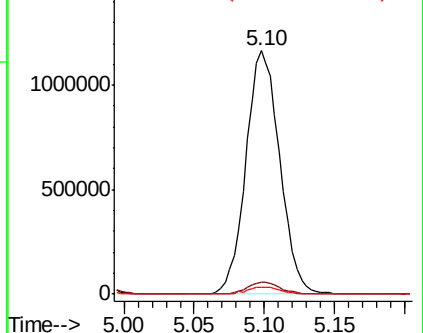
100 2.6 1.4 4.2

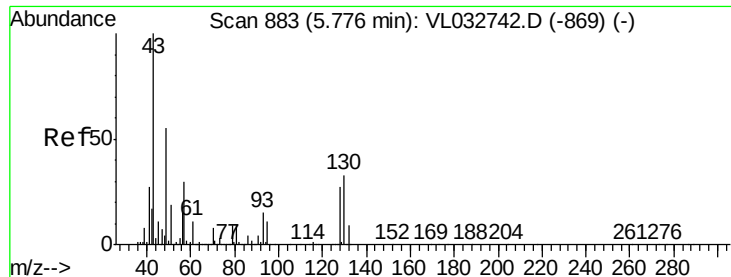


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





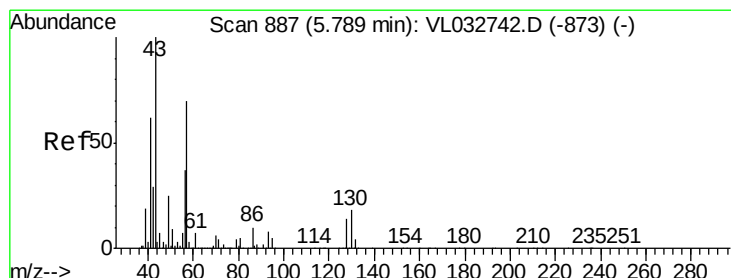
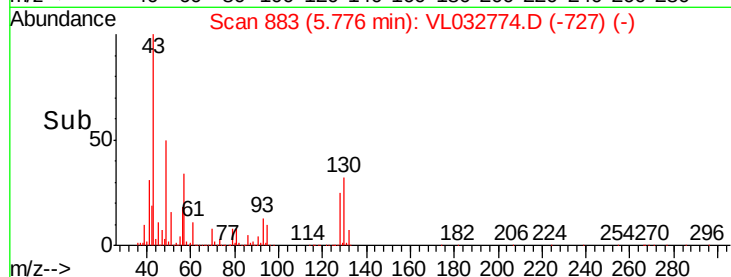
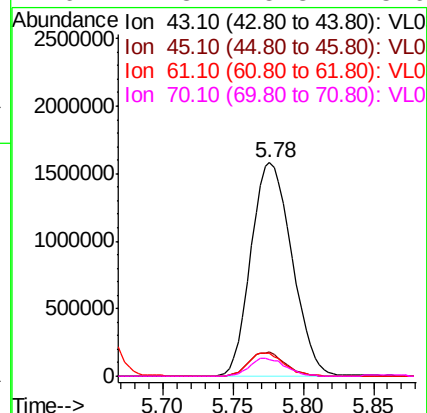
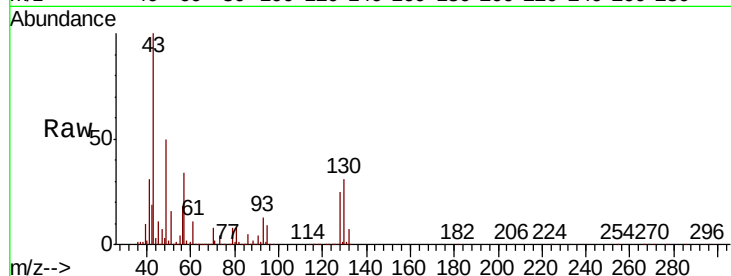
#25
Ethyl Acetate
Concen: 9.620 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	3221216
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	10.0	7.8	11.6
70	7.3	5.8	8.6

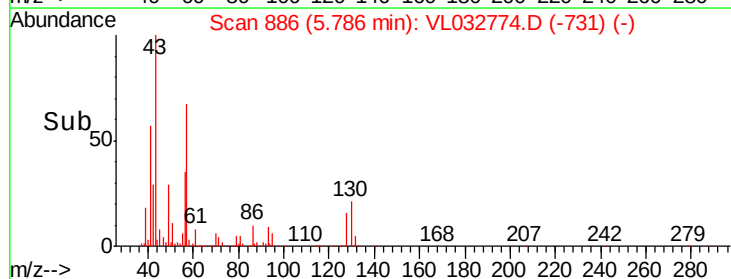
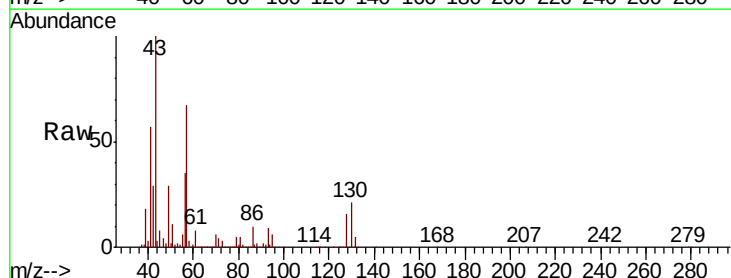
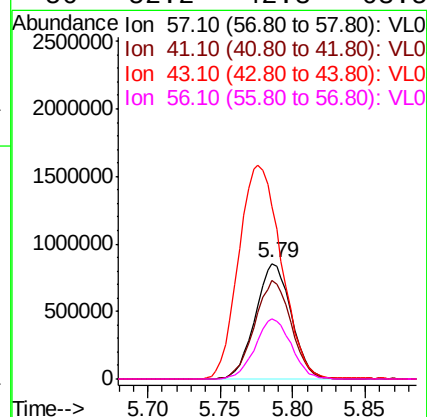
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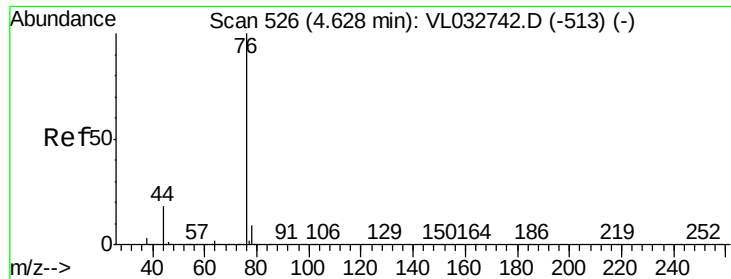
MMDadoda
11/16/2018 1:30:17 PM



#26
Hexane
Concen: 9.942 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion	57	Resp	1481942
Ion	Ratio	Lower	Upper
57	100		
41	86.6	70.3	105.5
43	218.7	174.0	261.0
56	52.2	42.3	63.5





#27

Carbon Disulfide

Concen: 10.215 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1930634

Ion Ratio Lower Upper

76 100

44 18.3 14.4 21.6

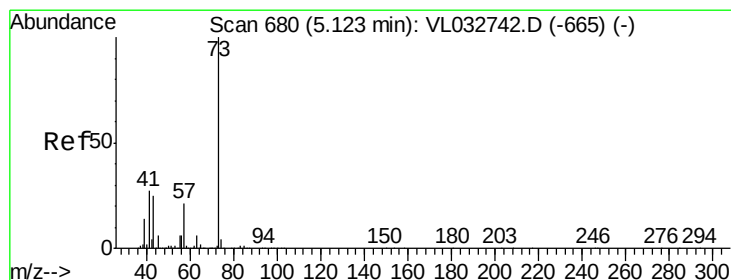
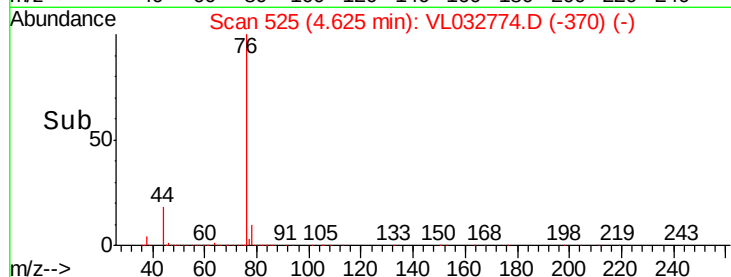
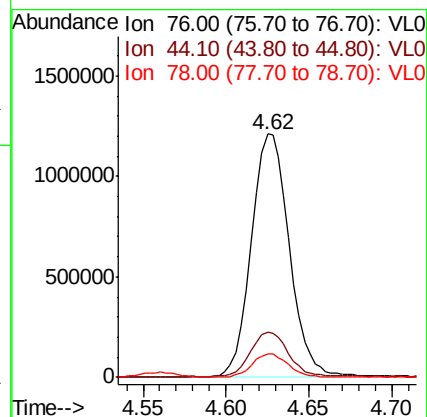
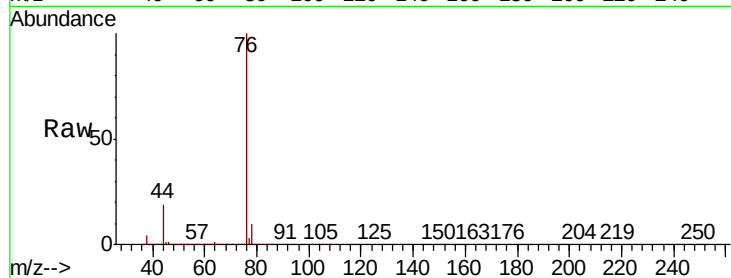
78 9.2 7.7 11.5

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.503 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032774.D

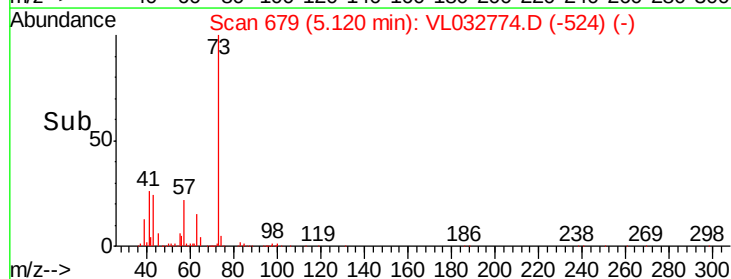
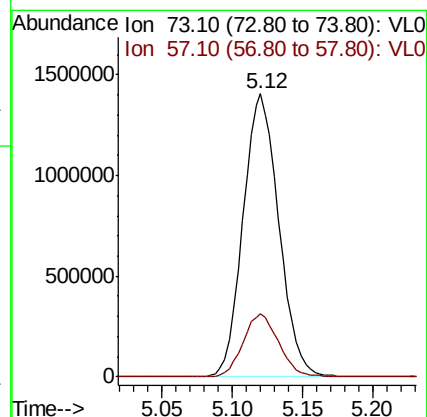
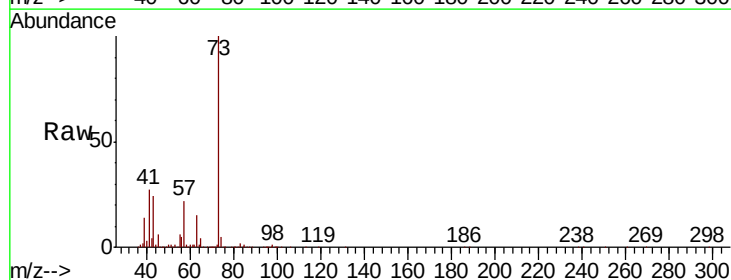
Acq: 15 Nov 2018 00:57

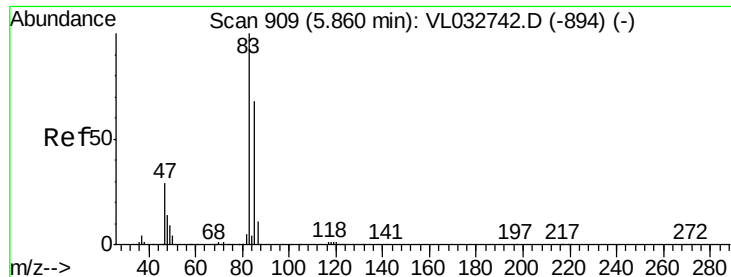
Tgt Ion: 73 Resp: 2496558

Ion Ratio Lower Upper

73 100

57 22.4 17.5 26.3





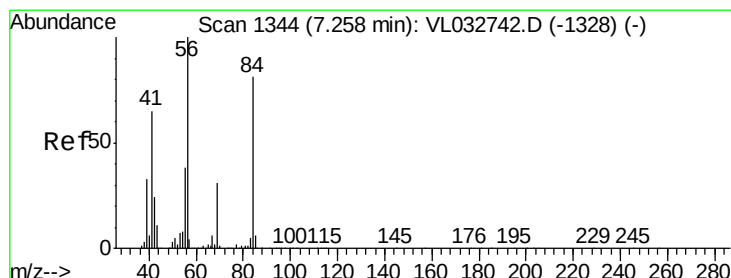
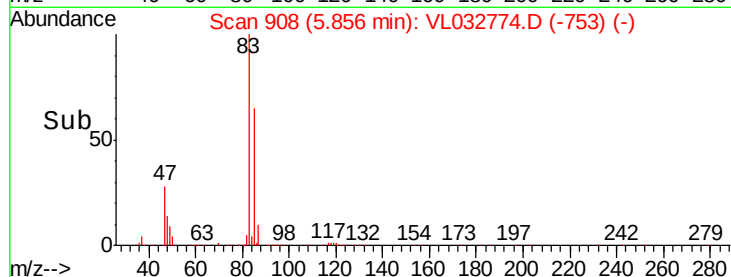
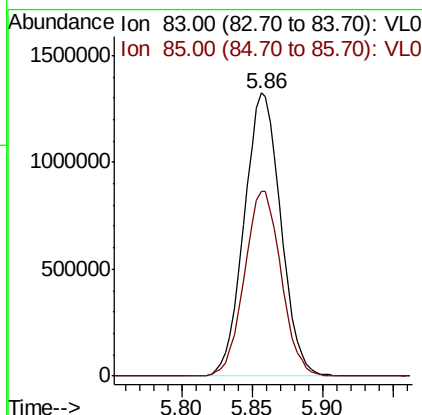
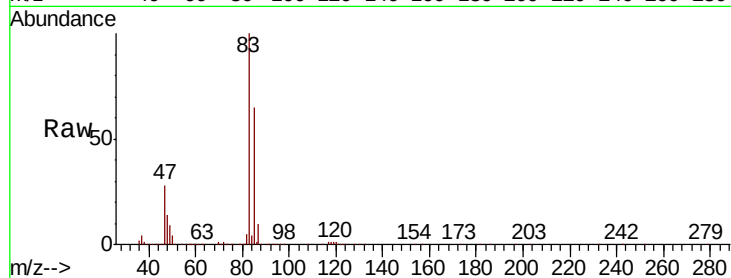
#29
Chloroform
Concen: 9.075 ppbv
RT: 5.86 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2410837
Ion Ratio Lower Upper
83 100
85 65.1 54.2 81.4

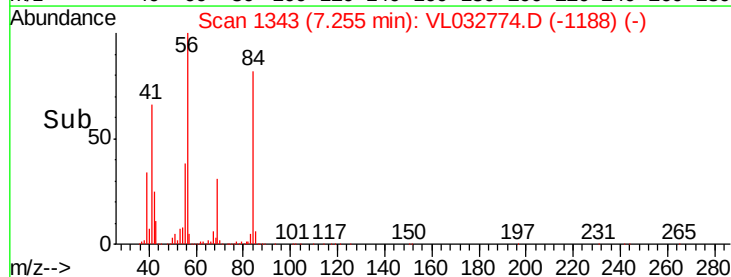
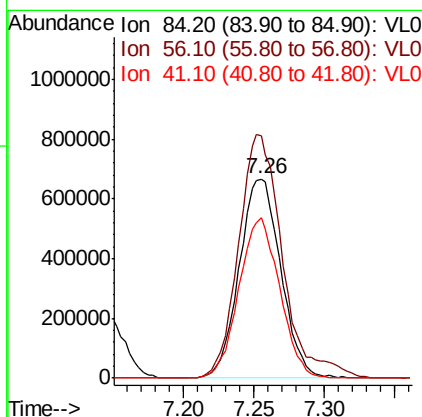
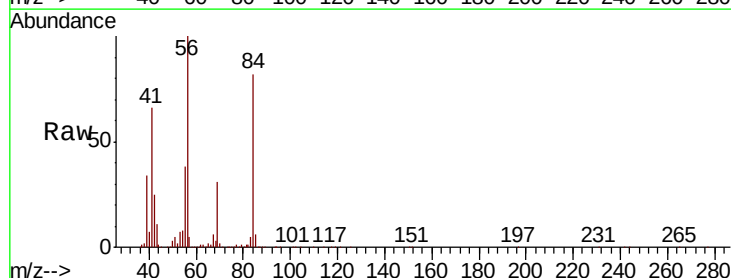
Manual Integrations
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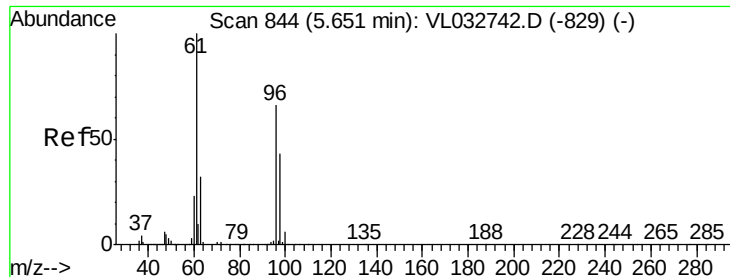
MMDadoda
11/16/2018 1:30:17 PM



#30
Cyclohexane
Concen: 10.495 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 84 Resp: 1368199
Ion Ratio Lower Upper
84 100
56 130.3 105.0 157.4
41 79.3 65.3 97.9





#31

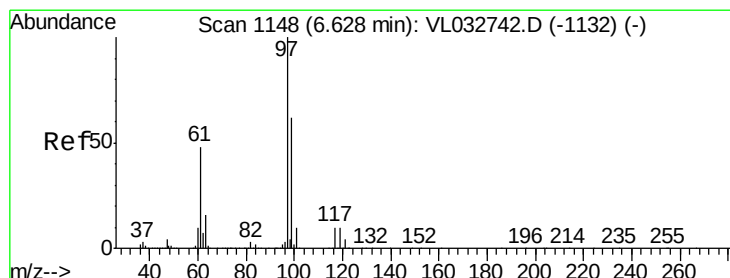
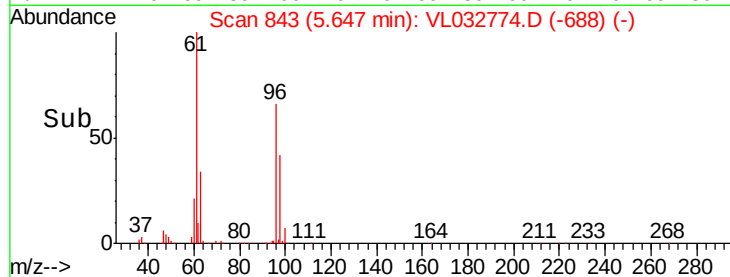
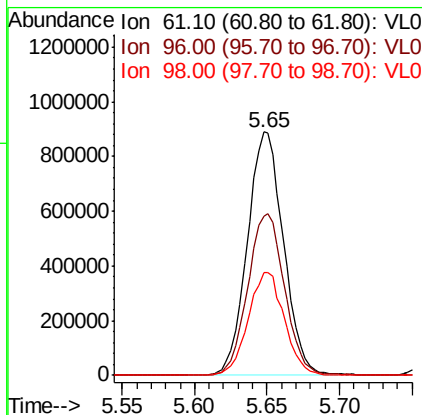
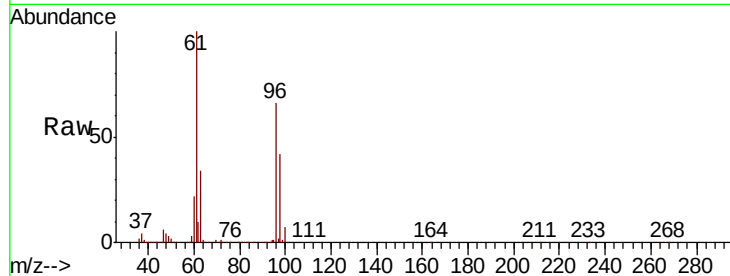
cis-1,2-Dichloroethene
 Concen: 10.310 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.2	79.8
98	42.1	34.4	51.6

Manual Integrations
 APPROVED

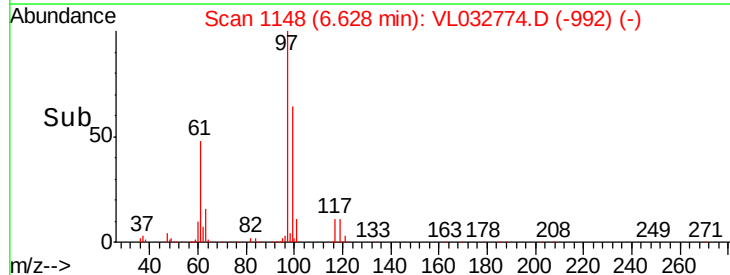
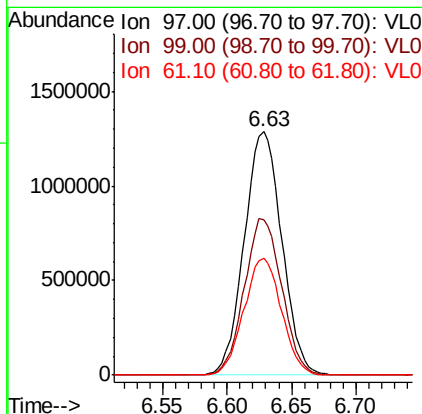
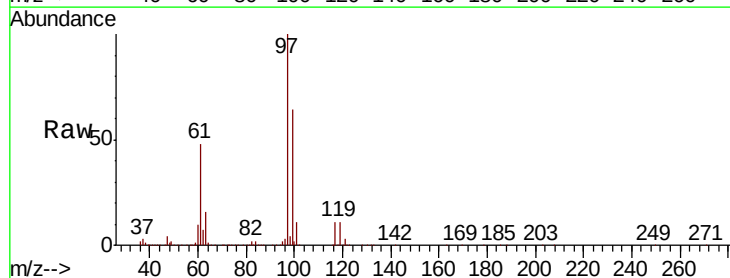
MMDadoda
 11/16/2018 1:30:17 PM

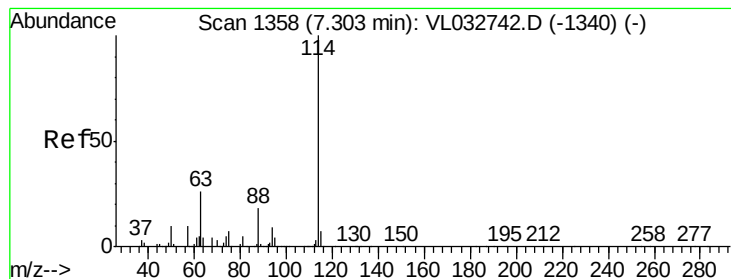


#32

1,1,1-Trichloroethane
 Concen: 8.999 ppbv
 RT: 6.63 min Scan# 1148
 Delta R.T. 0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	48.3	39.7	59.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 4099983

Ion Ratio Lower Upper

114 100

63 25.1 20.9 31.3

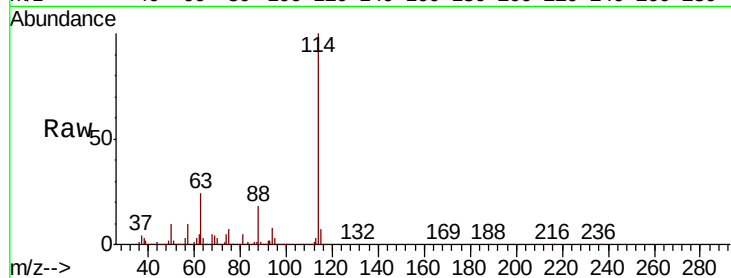
88 17.6 14.4 21.6

Manual Integrations

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MMDadoda

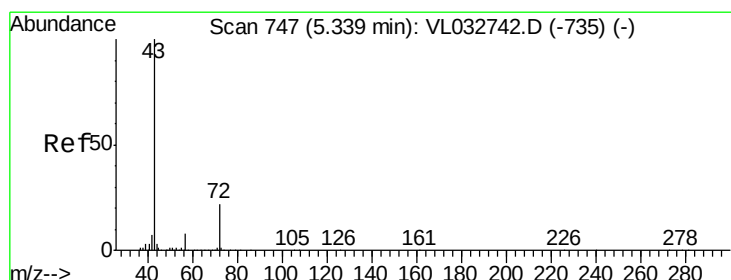
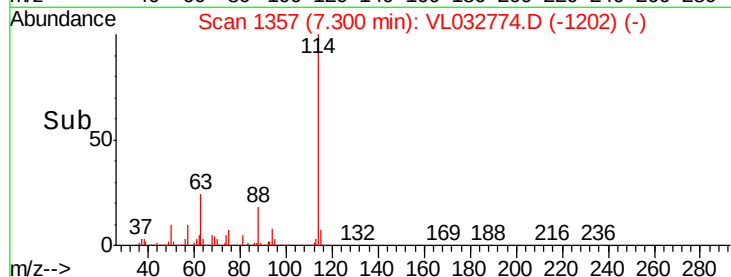
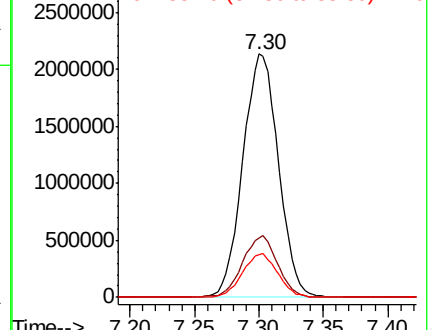
11/16/2018 1:30:17 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.860 ppbv

RT: 5.34 min Scan# 746

Delta R.T. -0.00 min

Lab File: VL032774.D

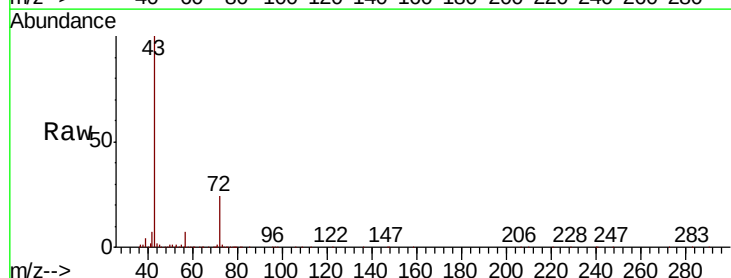
Acq: 15 Nov 2018 00:57

Tgt Ion: 43 Resp: 2096838

Ion Ratio Lower Upper

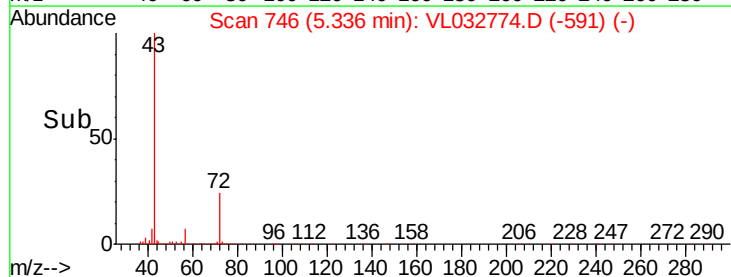
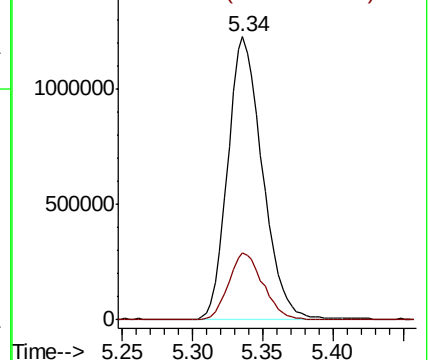
43 100

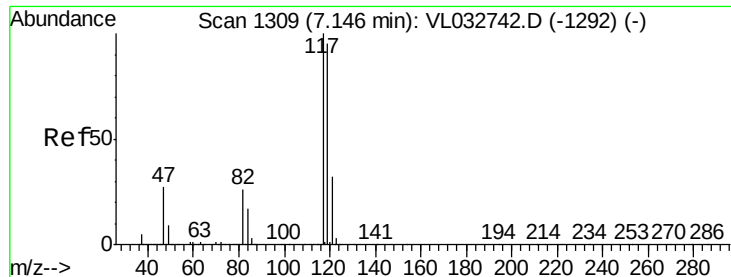
72 23.7 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.458 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2787638

Ion Ratio Lower Upper

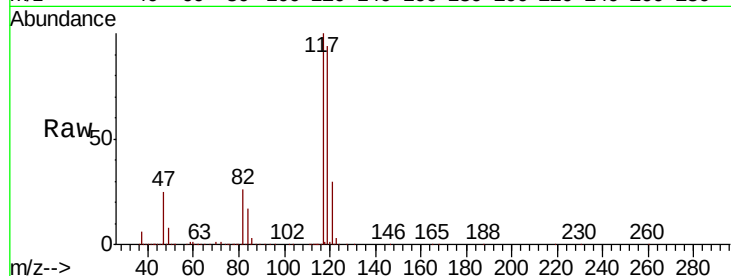
117 100

119 94.1 76.1 114.1

121 30.0 25.4 38.0

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11/16/2018 1:30:17 PM

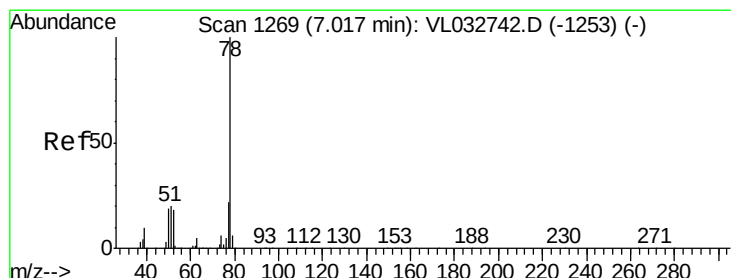
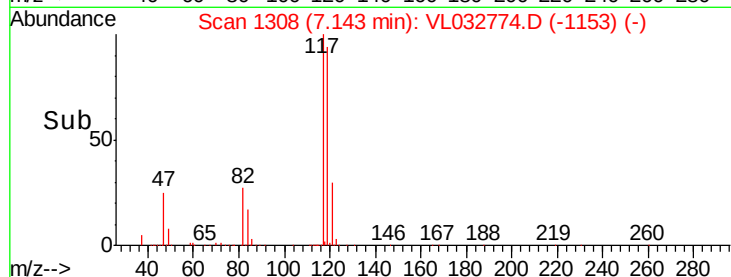
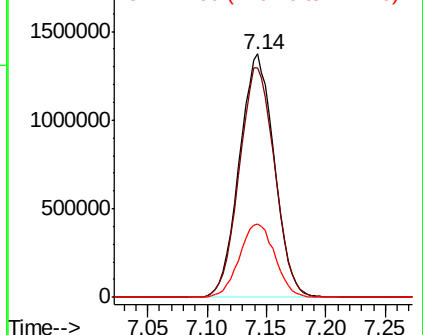


Abundance

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: 10.079 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

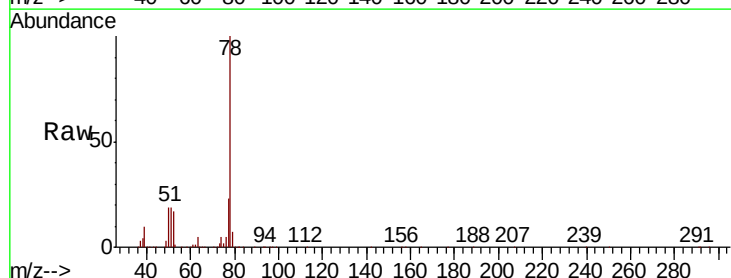
Tgt Ion: 78 Resp: 3290832

Ion Ratio Lower Upper

78 100

77 22.6 17.8 26.8

50 18.7 15.4 23.0

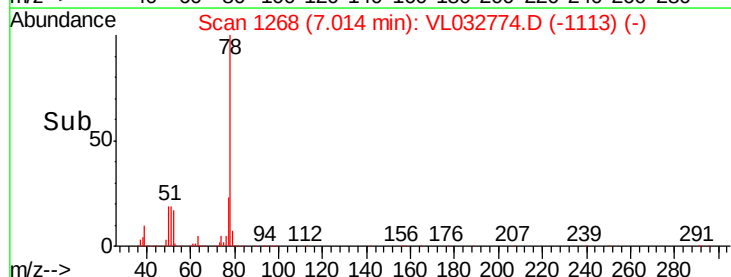
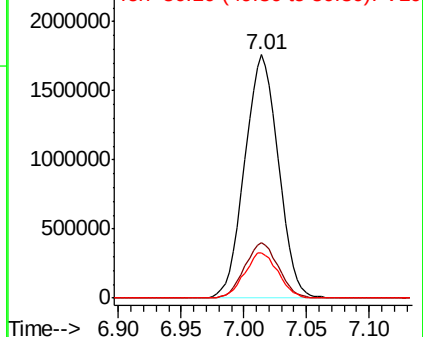


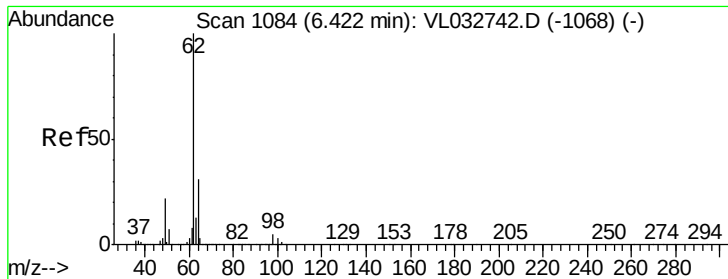
Abundance

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





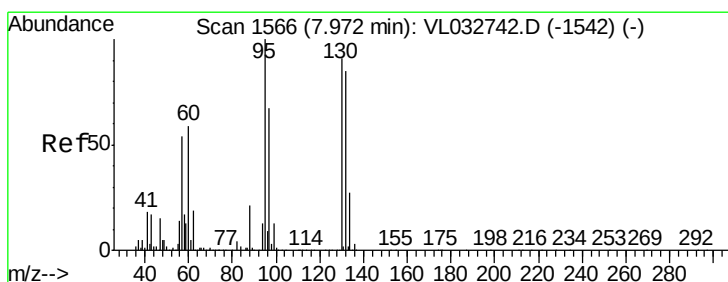
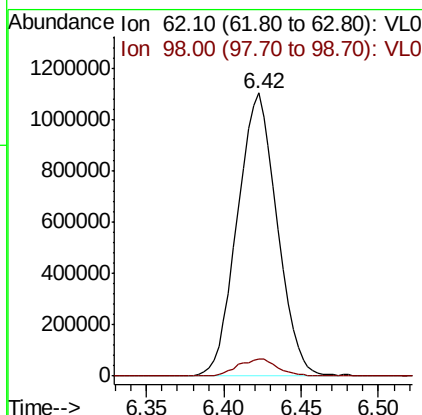
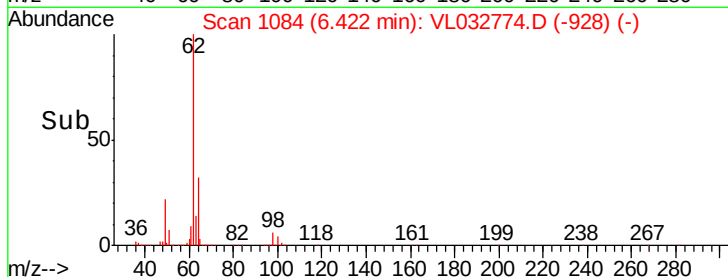
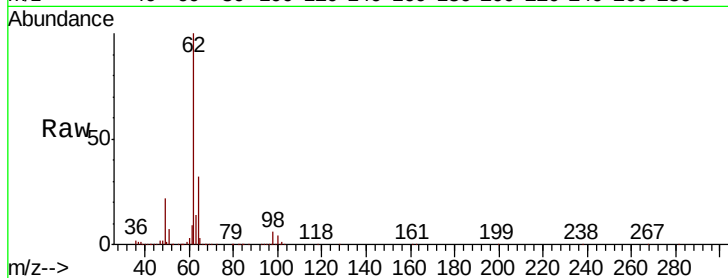
#37
 1,2-Dichloroethane
 Concen: 8.965 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1970343
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.5 6.7

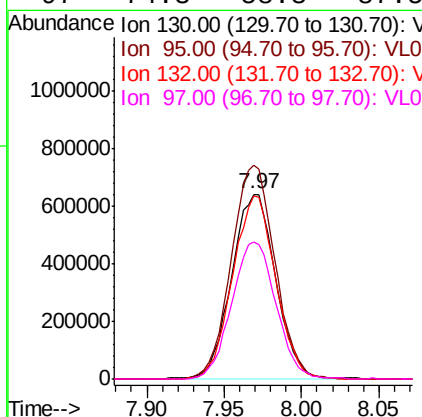
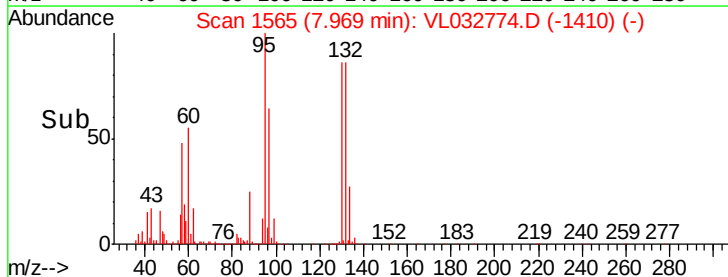
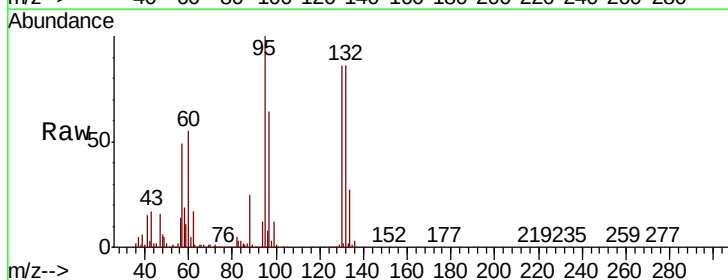
Manual Integrations
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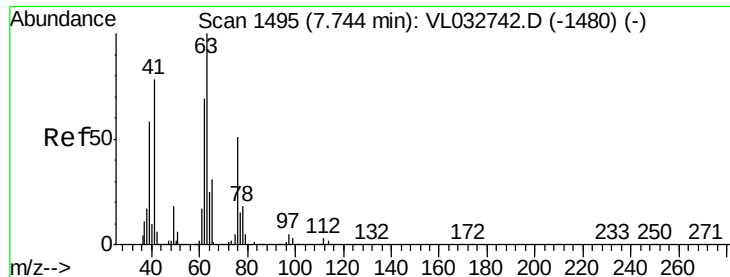
MMDadoda
 11/16/2018 1:30:17 PM



#38
 Trichloroethene
 Concen: 9.493 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion: 130 Resp: 1254304
 Ion Ratio Lower Upper
 130 100
 95 115.5 87.7 131.5
 132 98.9 74.6 111.8
 97 74.3 58.3 87.5





#39

1,2-Dichloropropane

Concen: 10.032 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1247969

Ion Ratio Lower Upper

63 100

41 75.5 62.0 93.0

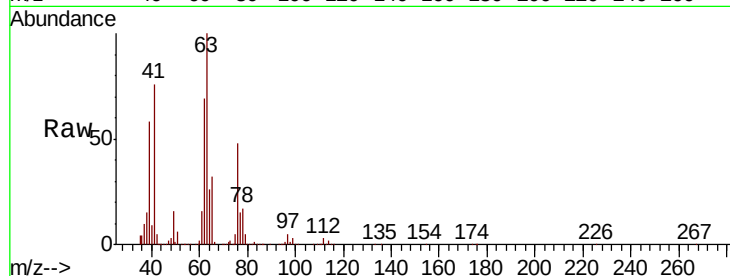
62 68.7 55.4 83.2

Manual Integrations

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MMDadoda

11/16/2018 1:30:17 PM

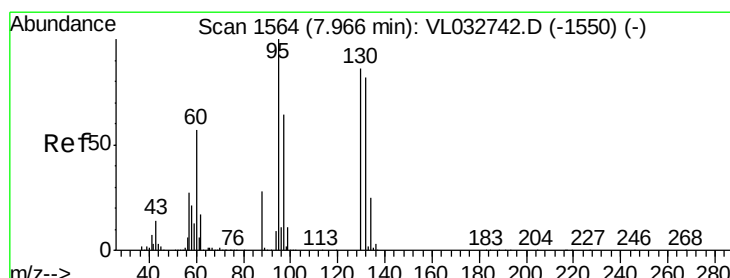
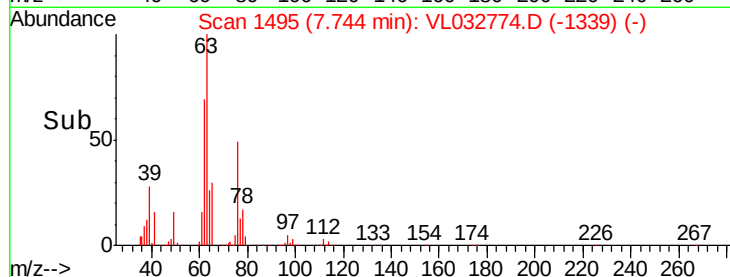
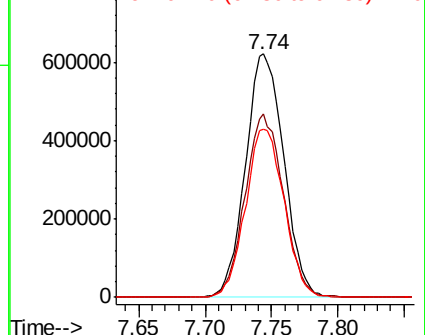


Abundance

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



#40

1,4-Dioxane

Concen: 10.086 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tgt Ion: 88 Resp: 448130

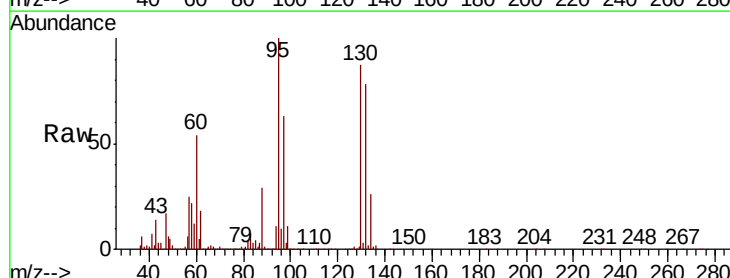
Ion Ratio Lower Upper

88 100

58 126.0 105.3 157.9

43 265.5 226.1 339.1

57 1194.9 1015.2 1522.8



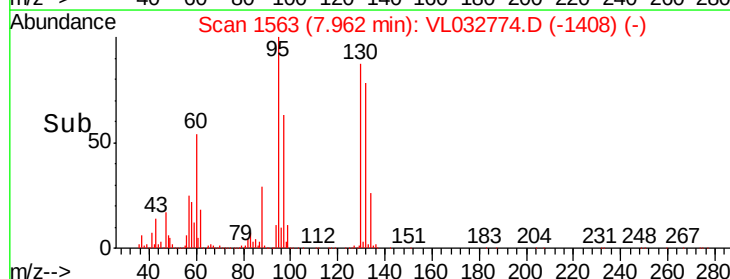
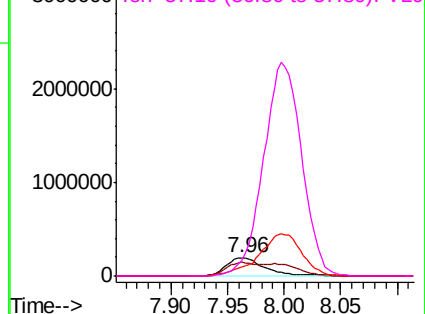
Abundance

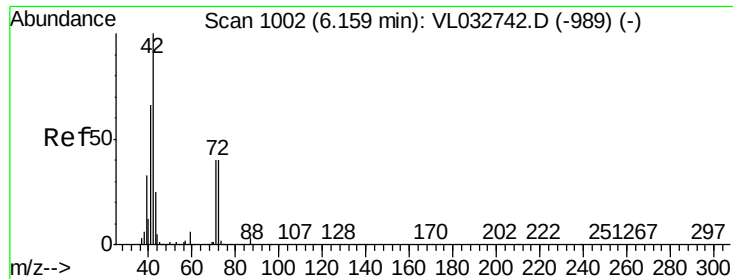
Ion 88.10 (87.80 to 88.80): VL0

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





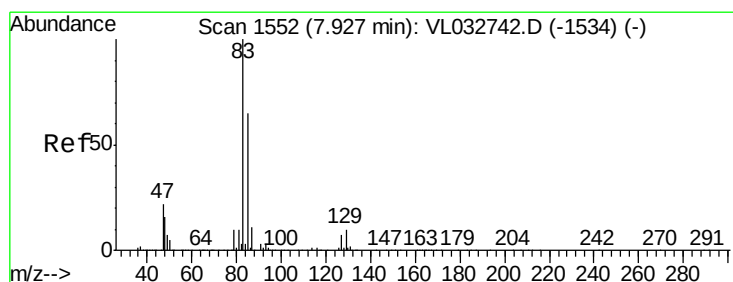
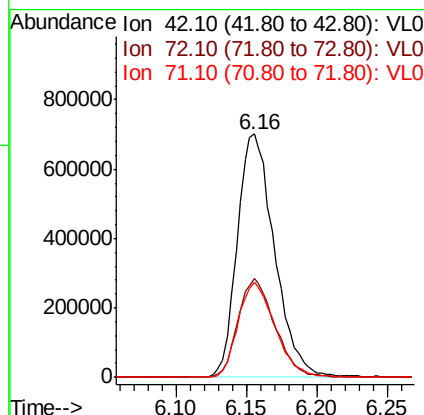
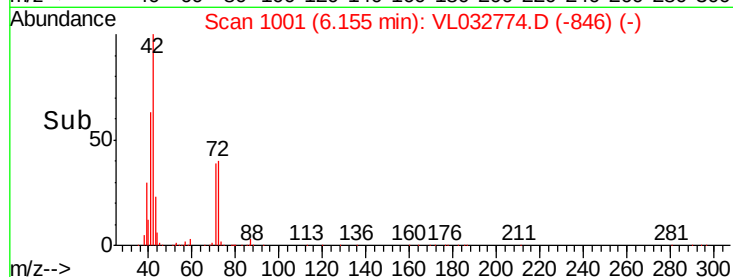
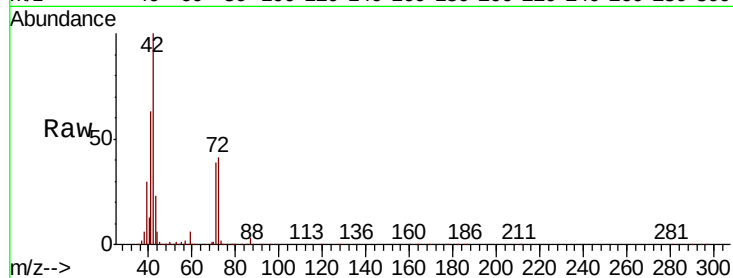
#41
Tetrahydrofuran
Concen: 10.613 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.4	48.6
71	39.1	31.6	47.4

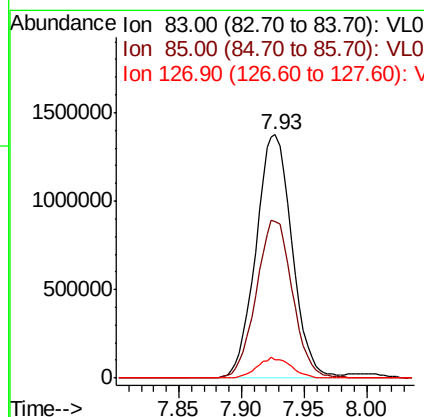
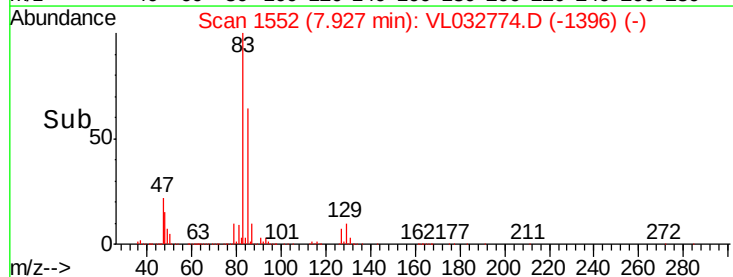
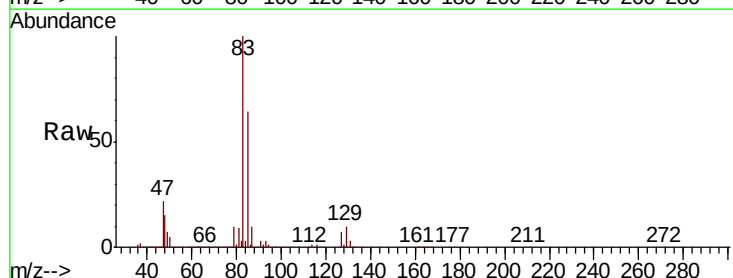
Manual Integrations
APPROVED

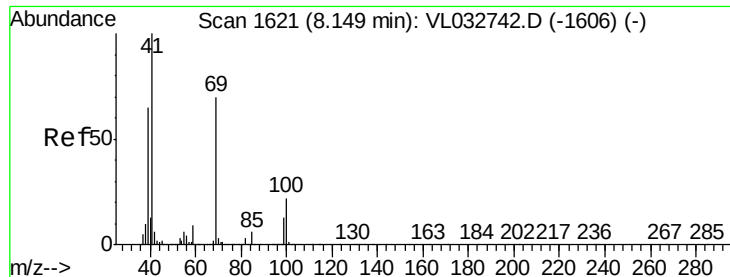
MMDadoda
11/16/2018 1:30:17 PM



#42
Bromodichloromethane
Concen: 9.263 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.8
127	7.4	5.9	8.9





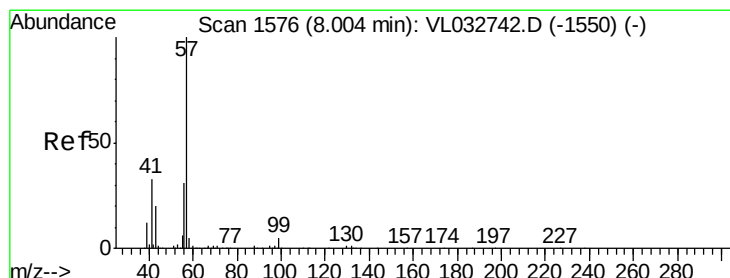
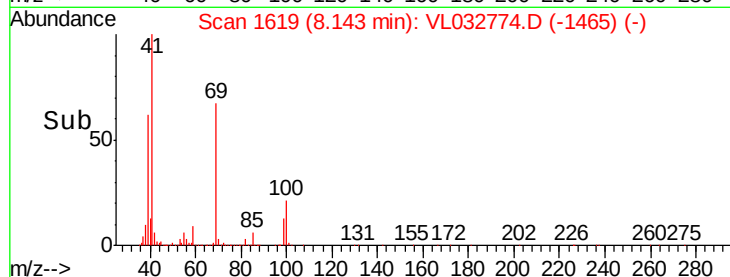
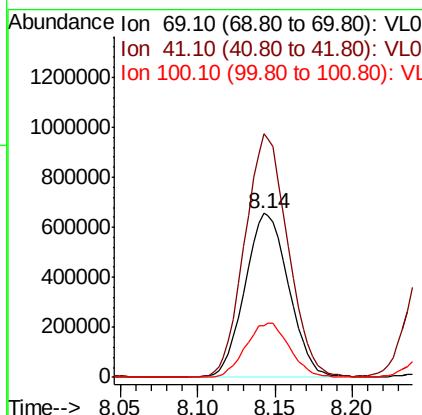
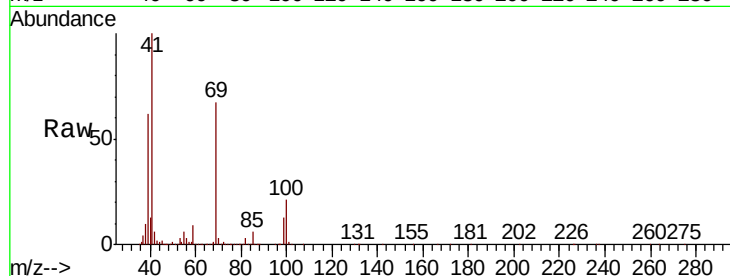
#43
Methyl Methacrylate
Concen: 10.630 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. -0.01 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1295716
Ion Ratio Lower Upper
69 100
41 146.0 115.0 172.4
100 33.0 25.4 38.0

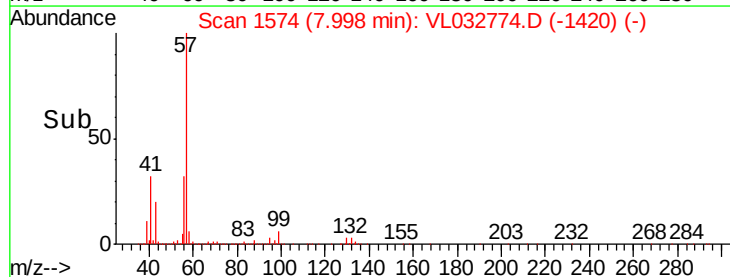
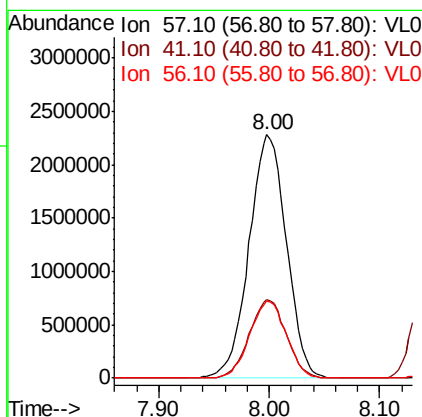
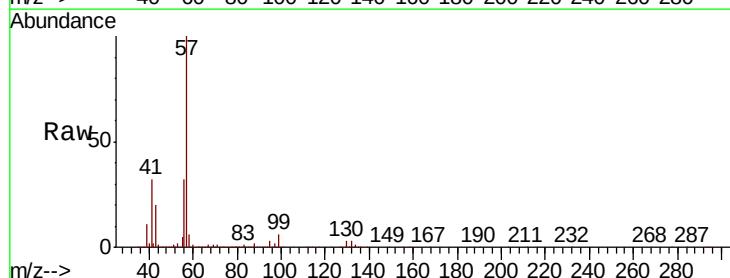
Manual Integrations
APPROVED

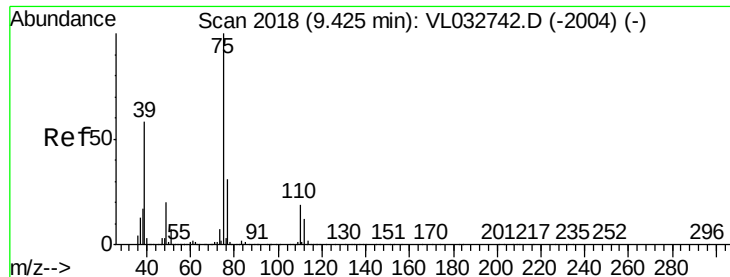
MMDadoda
11/16/2018 1:30:17 PM



#44
2,2,4-Trimethylpentane
Concen: 9.802 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 57 Resp: 5347967
Ion Ratio Lower Upper
57 100
41 31.8 26.6 39.8
56 31.0 24.8 37.2





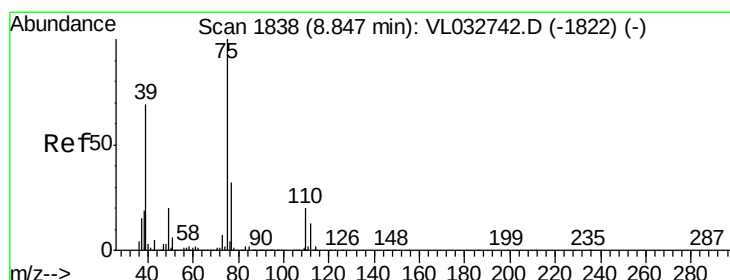
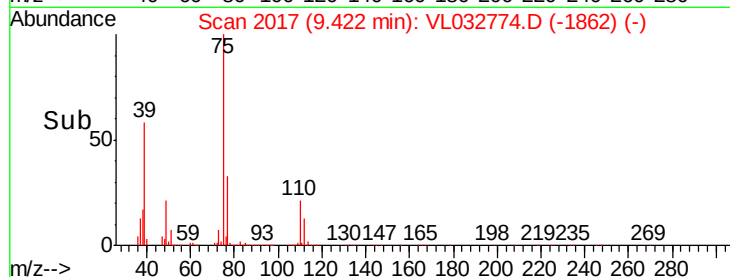
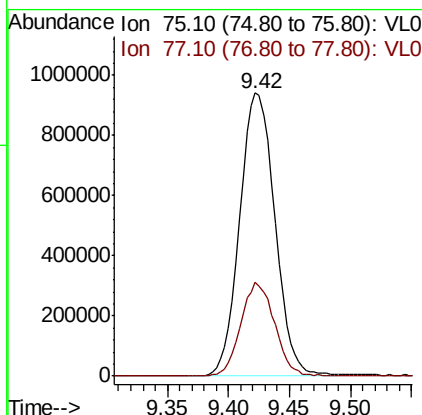
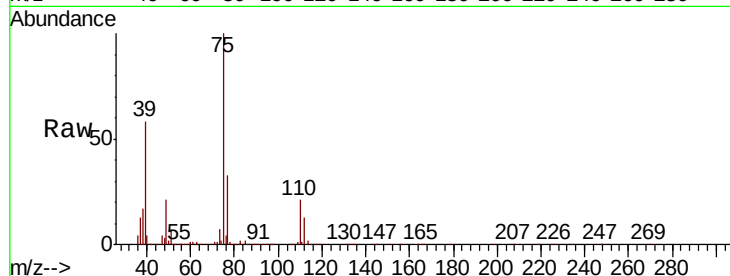
#45
t-1,3-Dichloropropene
Concen: 11.491 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1879402
Ion Ratio Lower Upper
75 100
77 33.1 24.6 36.8

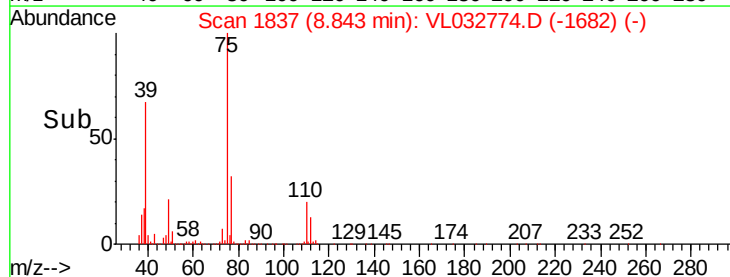
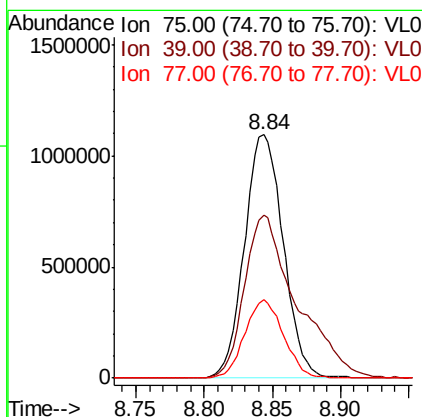
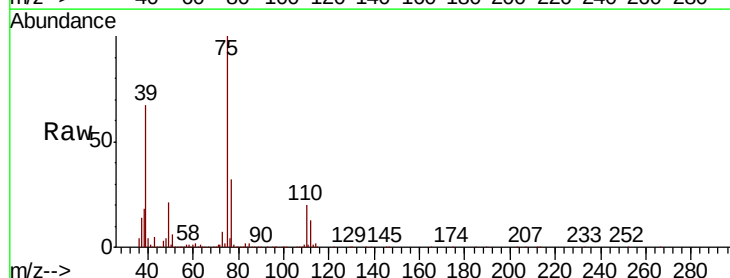
Manual Integrations
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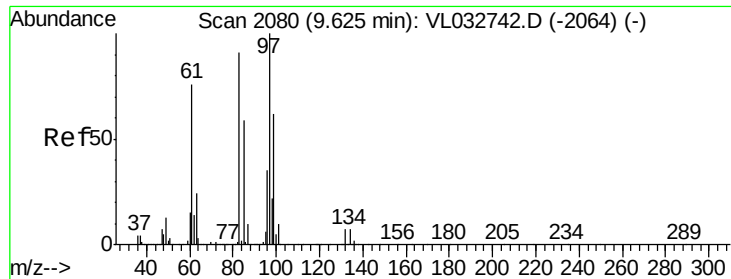
MMDadoda
11/16/2018 1:30:17 PM



#46
cis-1,3-Dichloropropene
Concen: 10.928 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 75 Resp: 2159278
Ion Ratio Lower Upper
75 100
39 67.0 55.2 82.8
77 32.3 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 9.481 ppbv

RT: 9.62 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1394567

Ion Ratio Lower Upper

97 100

83 89.8 73.0 109.4

85 60.0 47.0 70.4

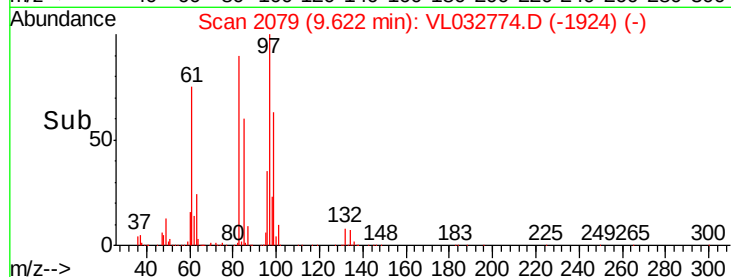
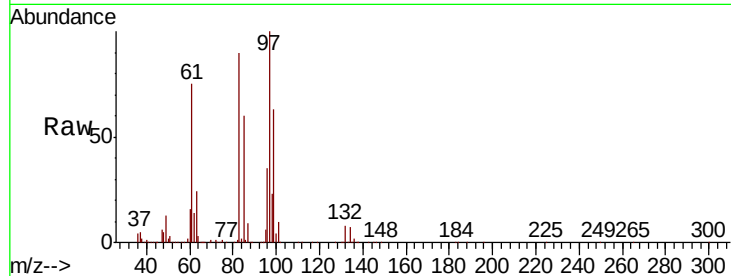
99 63.5 49.9 74.9

Manual Integrations

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MMDadoda

11/16/2018 1:30:17 PM

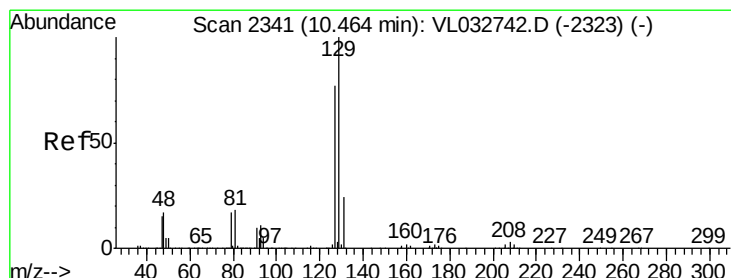
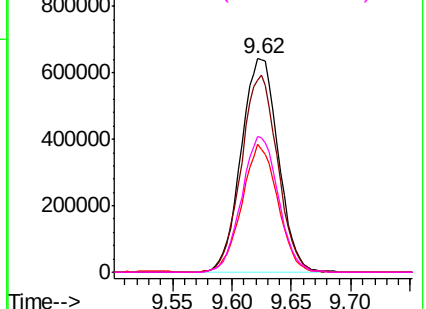


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.374 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. -0.00 min

Lab File: VL032774.D

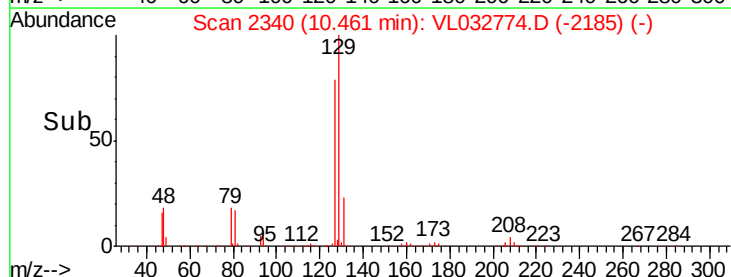
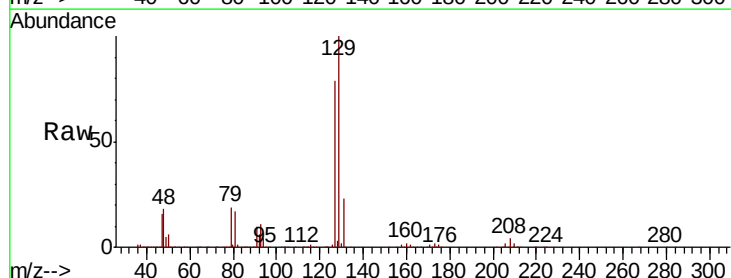
Acq: 15 Nov 2018 00:57

Tgt Ion: 129 Resp: 2343574

Ion Ratio Lower Upper

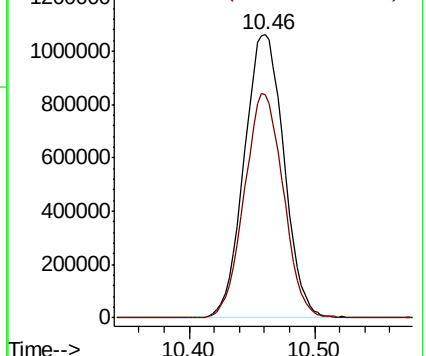
129 100

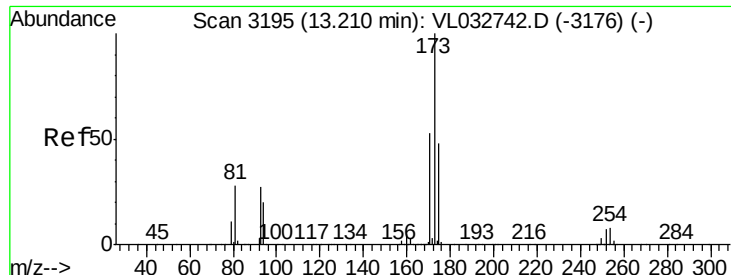
127 77.9 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





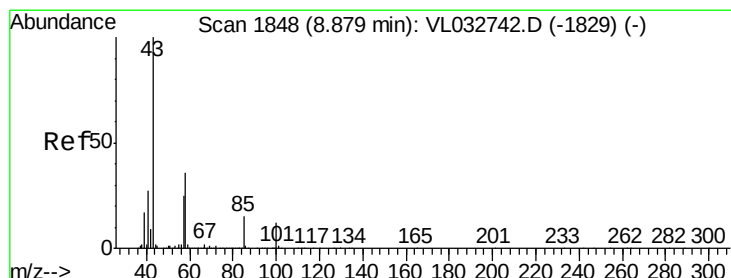
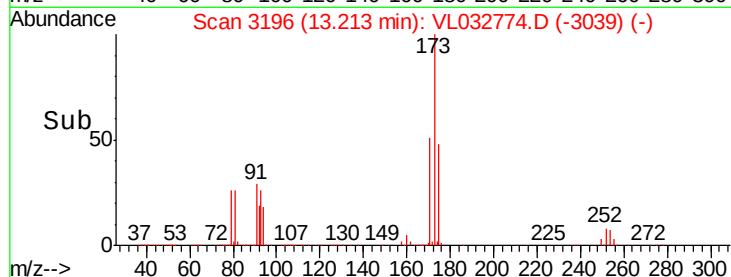
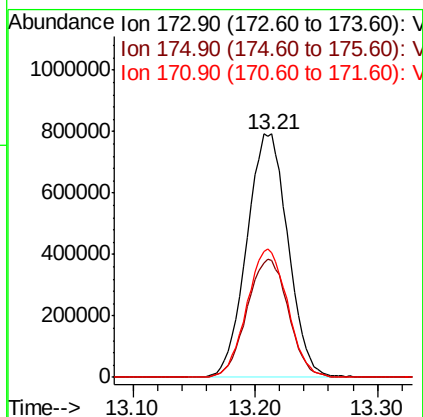
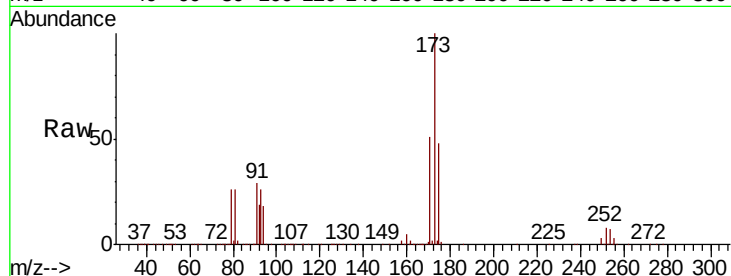
#49
Bromoform
Concen: 8.961 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1850067
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 52.0 42.0 63.0

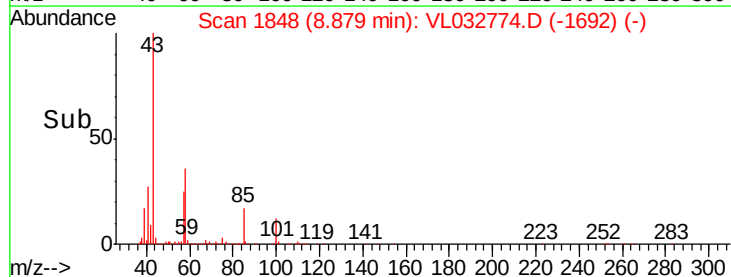
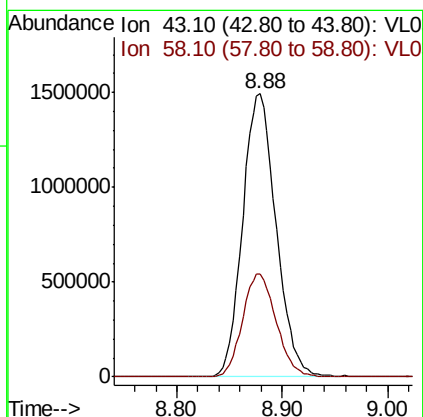
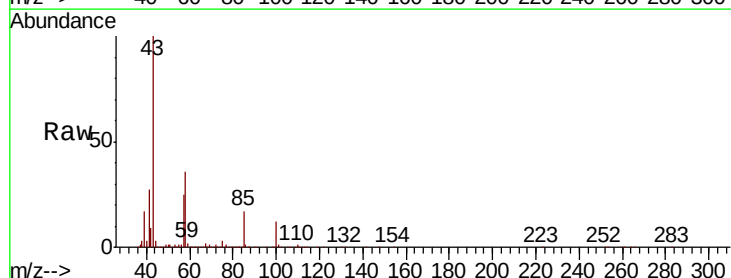
Manual Integrations
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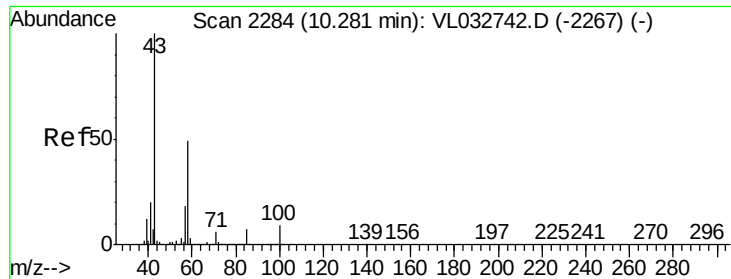
MMDadoda
11/16/2018 1:30:17 PM



#50
4-Methyl-2-Pentanone
Concen: 9.917 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 43 Resp: 3293907
Ion Ratio Lower Upper
43 100
58 36.6 28.8 43.2





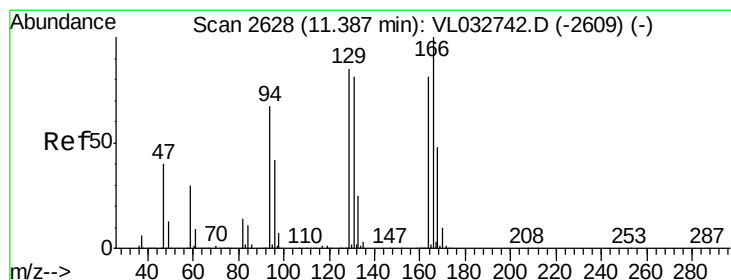
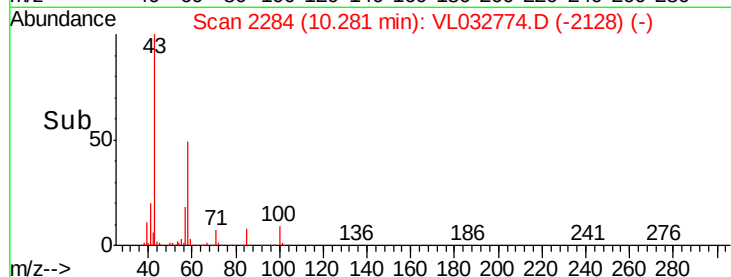
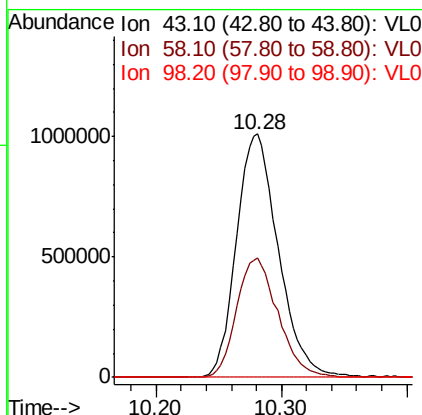
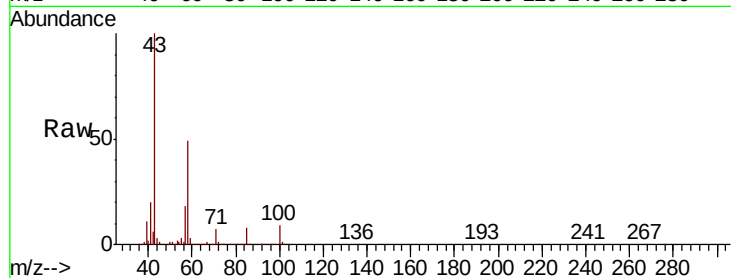
#51
2-Hexanone
Concen: 10.919 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2336509
Ion Ratio Lower Upper
43 100
58 48.9 38.9 58.3
98 0.3 0.2 0.4

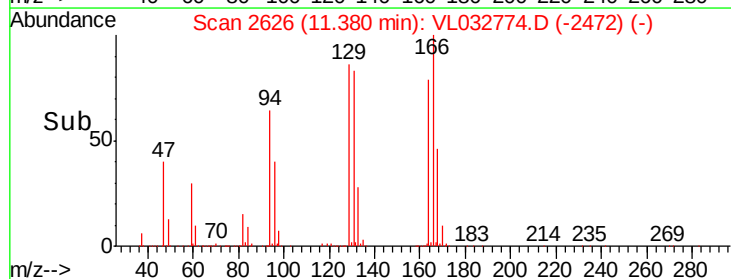
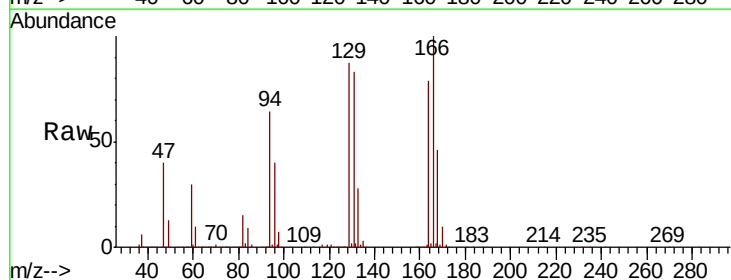
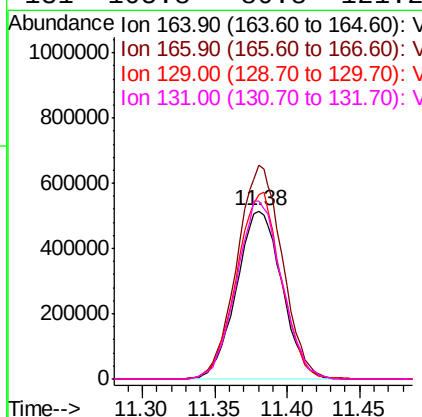
Manual Integrations
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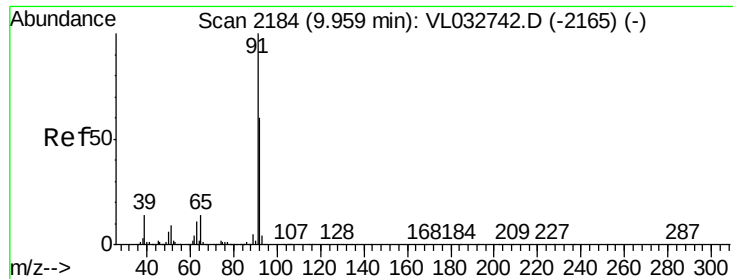
MMDadoda
11/16/2018 1:30:17 PM



#52
Tetrachloroethene
Concen: 9.757 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 164 Resp: 1108088
Ion Ratio Lower Upper
164 100
166 127.1 99.3 148.9
129 110.1 83.9 125.9
131 105.8 80.8 121.2





#53

Toluene

Concen: 10.864 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3700351

Ion Ratio Lower Upper

91 100

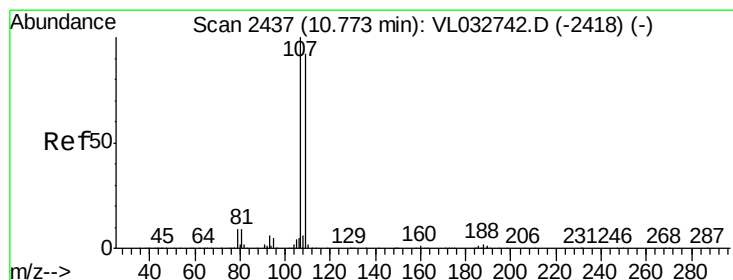
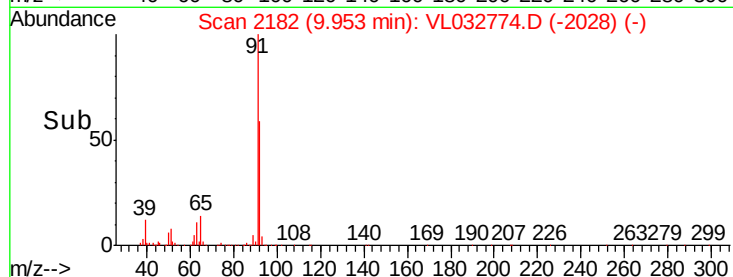
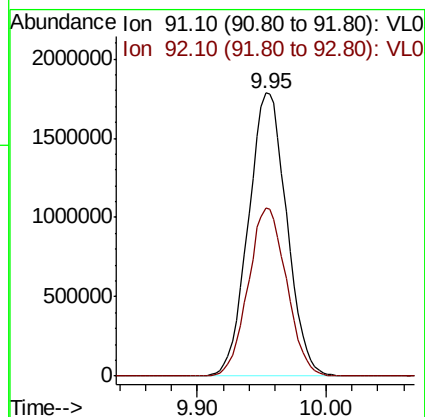
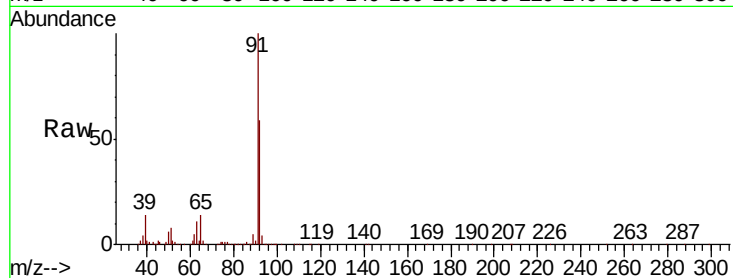
92 59.5 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.729 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032774.D

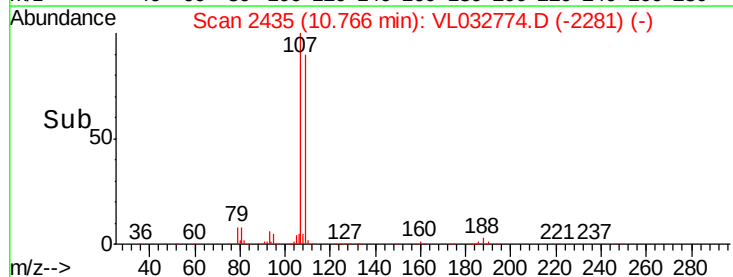
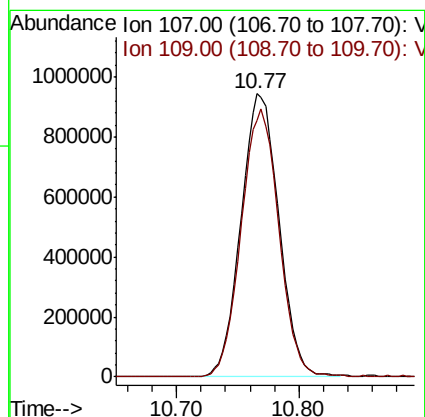
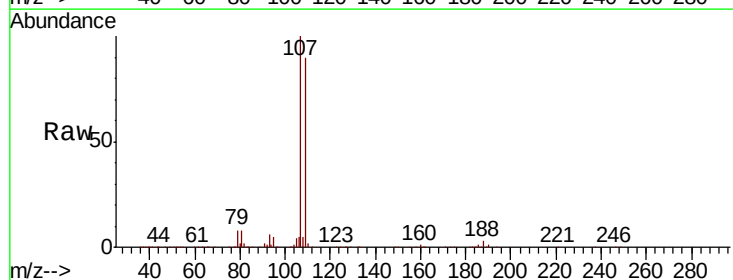
Acq: 15 Nov 2018 00:57

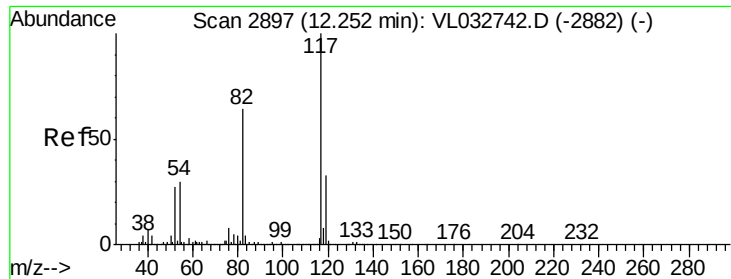
Tgt Ion: 107 Resp: 2022935

Ion Ratio Lower Upper

107 100

109 90.5 73.8 110.8





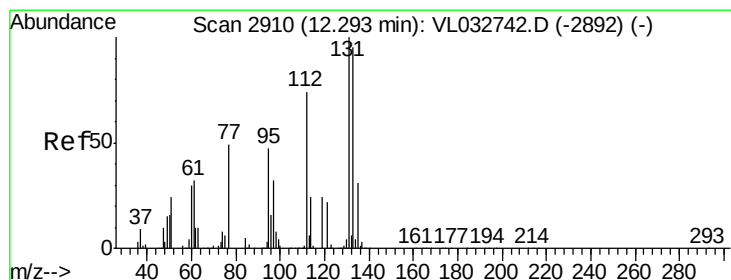
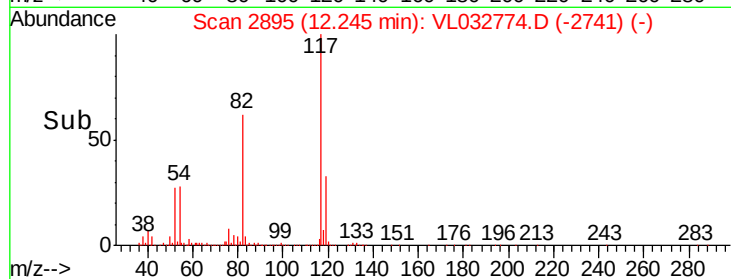
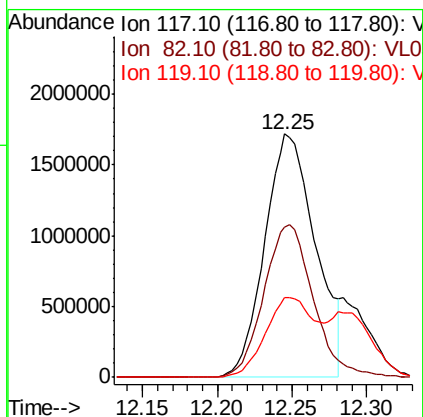
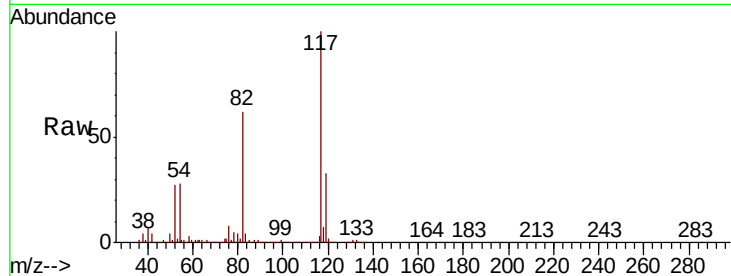
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 4054386
Ion Ratio Lower Upper
117 100
82 61.2 51.0 76.6
119 54.9 28.0 42.0#

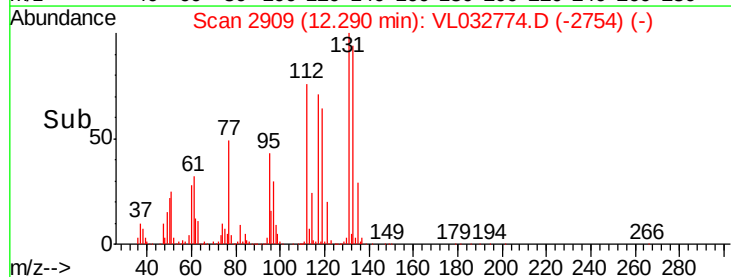
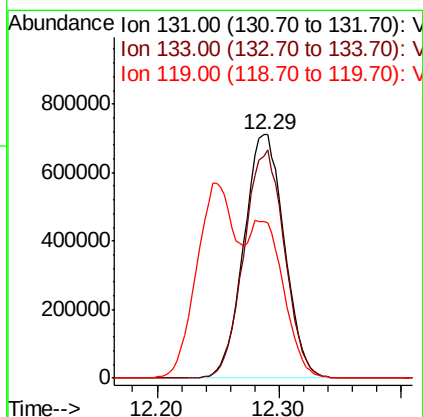
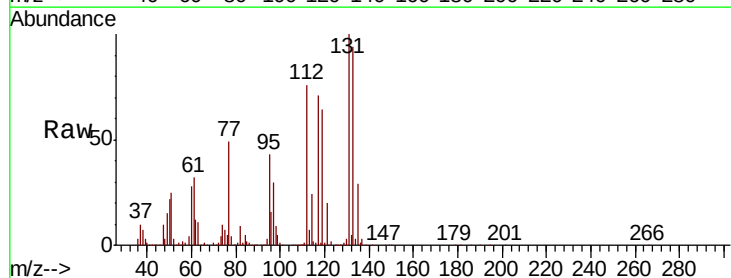
Manual Integrations
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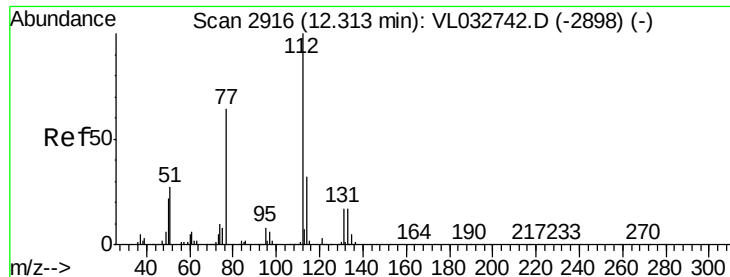
MMDadoda
11/16/2018 1:30:17 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.611 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion:131 Resp: 1628389
Ion Ratio Lower Upper
131 100
133 93.7 75.8 113.6
119 56.2 45.2 67.8





#57

Chlorobenzene

Concen: 8.806 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2732955

Ion Ratio Lower Upper

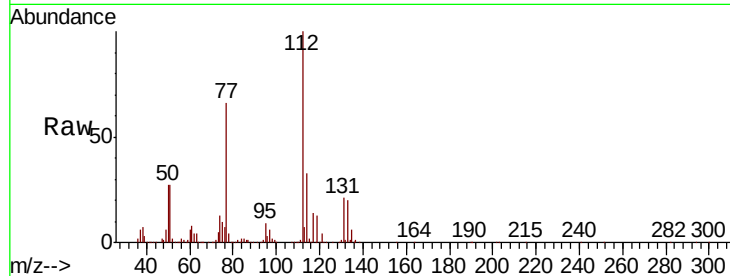
112 100

77 65.7 52.3 78.5

114 32.8 28.4 34.8

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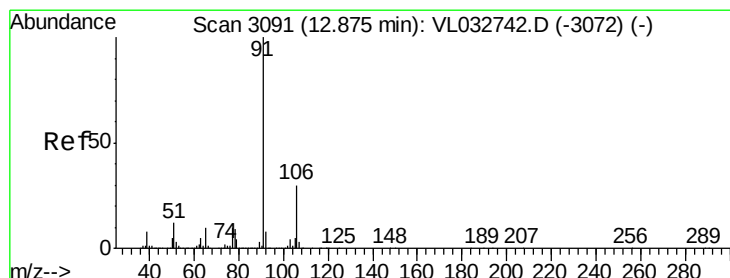
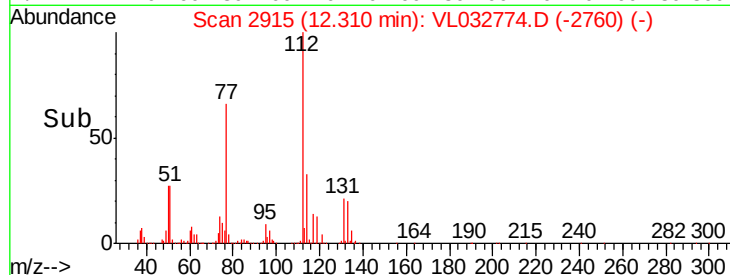
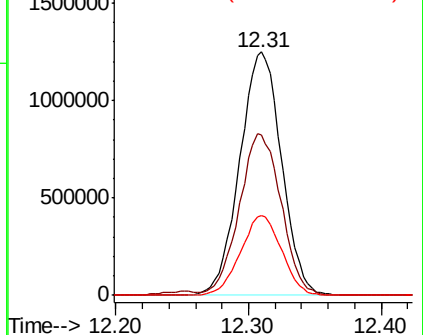
MMDadoda
11/16/2018 1:30:17 PM



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: 9.978 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032774.D

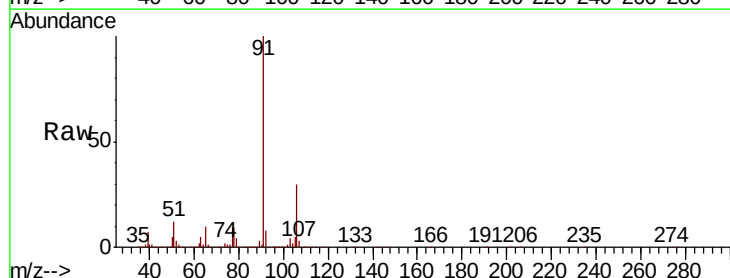
Acq: 15 Nov 2018 00:57

Tgt Ion: 91 Resp: 4868689

Ion Ratio Lower Upper

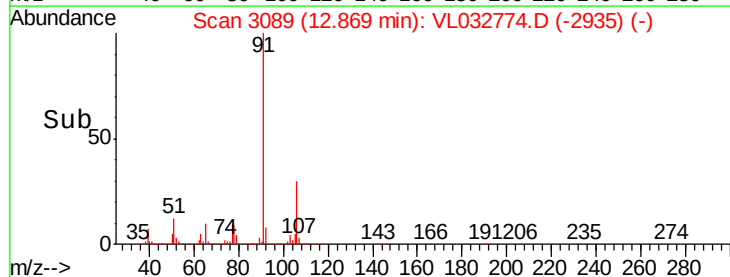
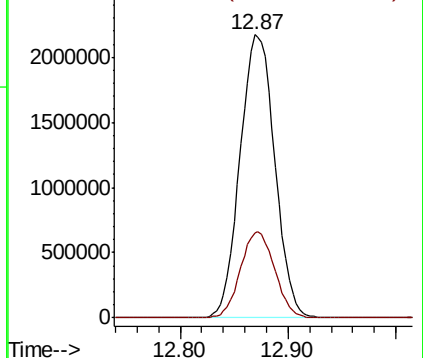
91 100

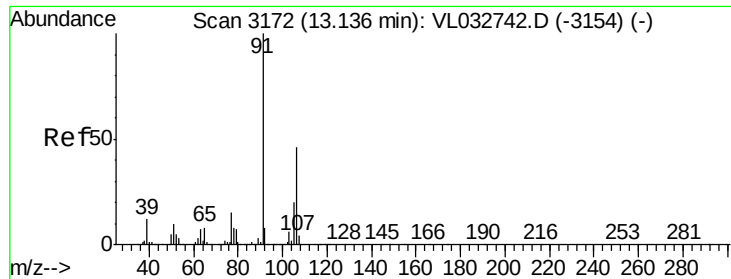
106 29.9 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





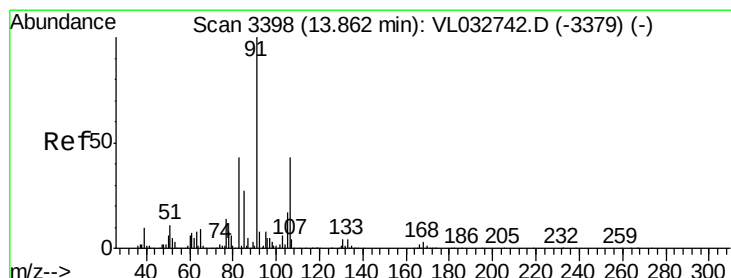
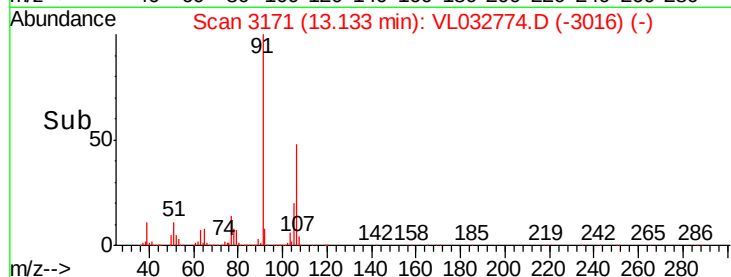
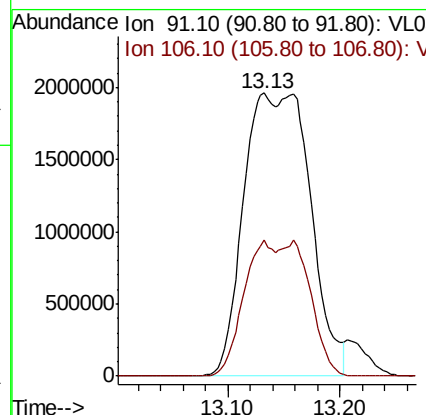
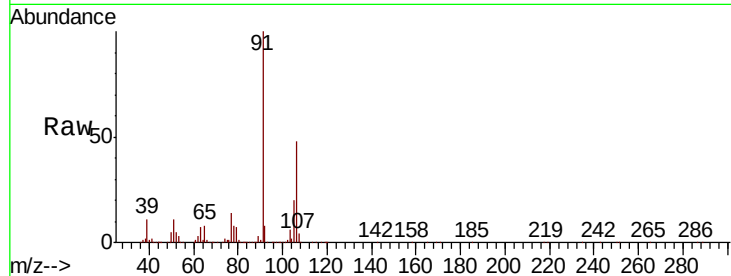
#59
m/p-Xylene
Concen: 18.576 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8068832
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

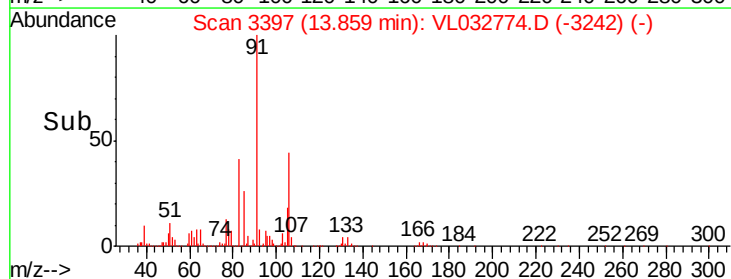
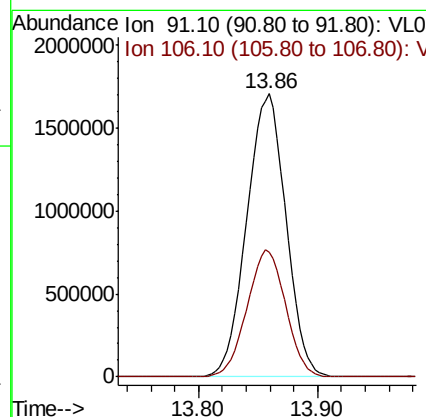
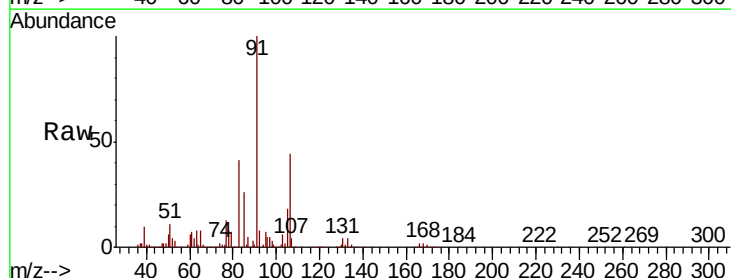
Manual Integrations
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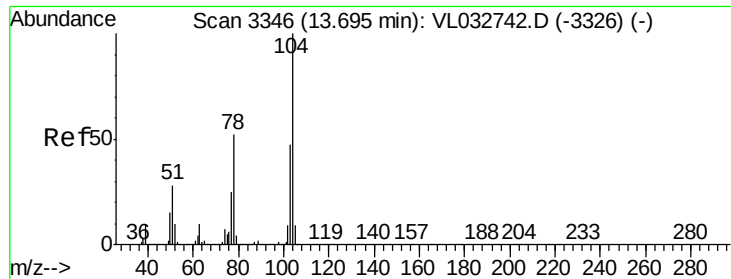
MMDadoda
11/16/2018 1:30:17 PM



#60
o-Xylene
Concen: 8.888 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion: 91 Resp: 3881730
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.7





#61

Stvrene

Concen: 10.414 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2960784

Ion Ratio Lower Upper

104 100

78 51.8 42.2 63.4

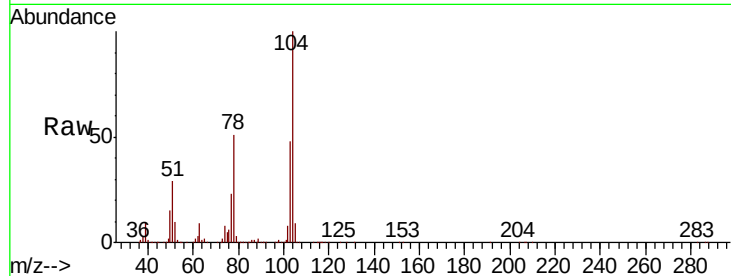
103 47.5 38.2 57.2

Manual Integrations

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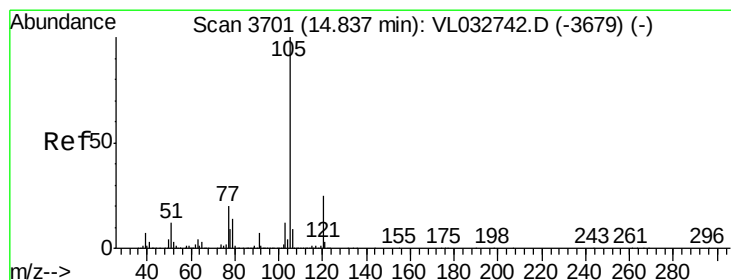
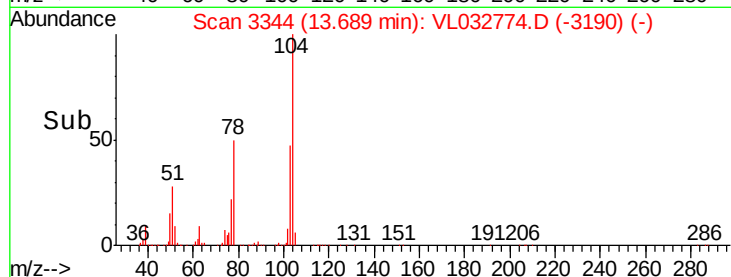
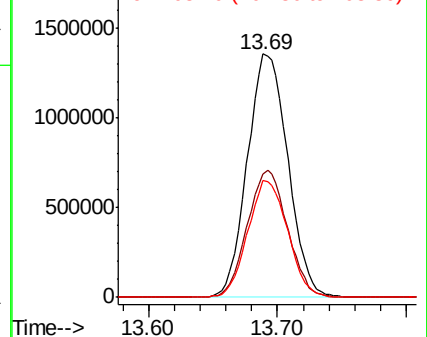
11/16/2018 1:30:17 PM



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: 9.229 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL032774.D

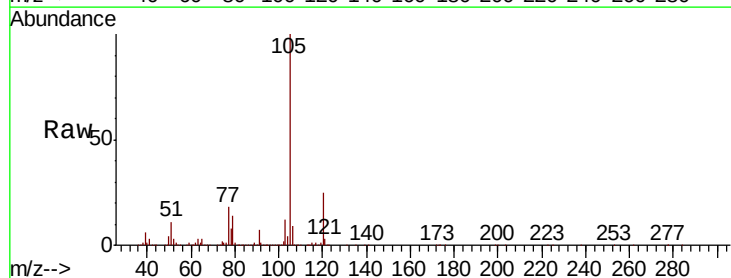
Acq: 15 Nov 2018 00:57

Tgt Ion:105 Resp: 5448559

Ion Ratio Lower Upper

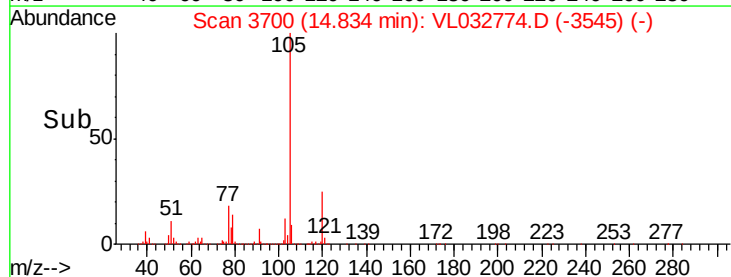
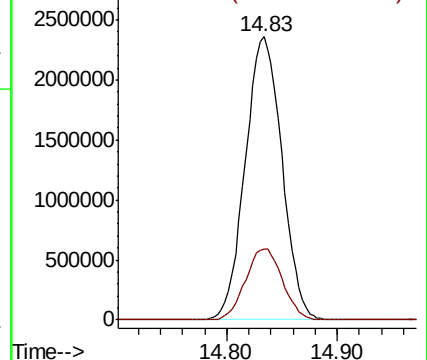
105 100

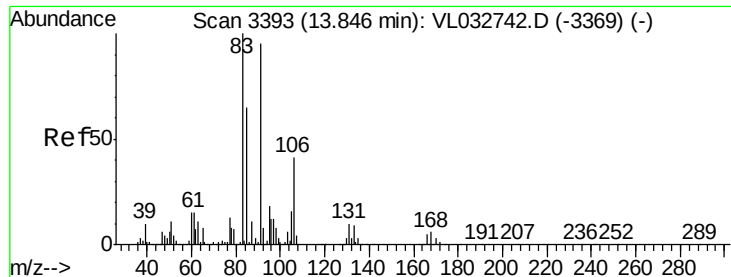
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





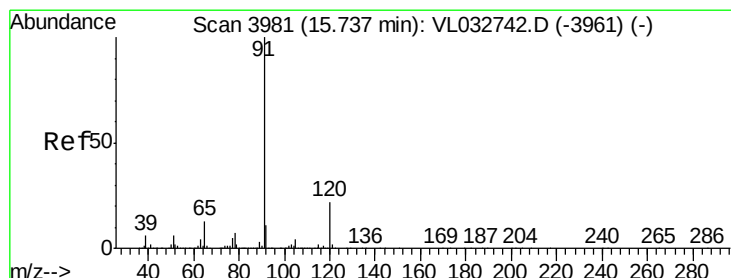
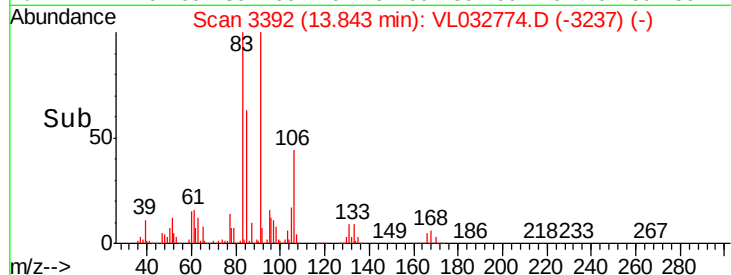
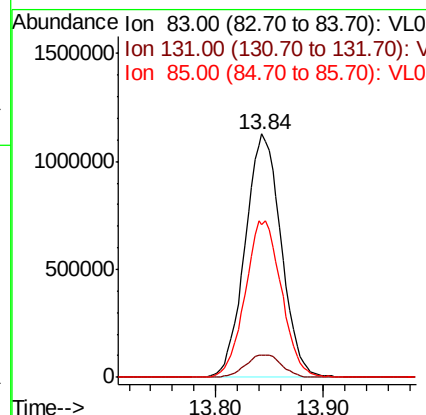
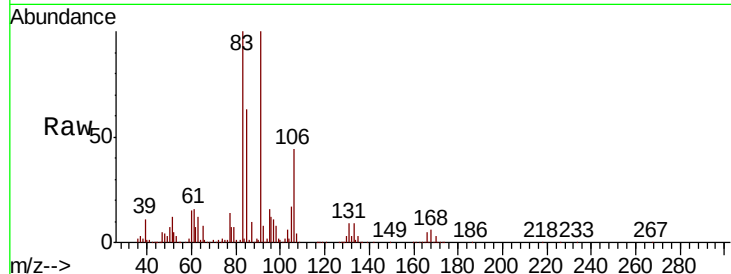
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.679 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2614612
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.7	14.1
85	64.9	32.5	97.4

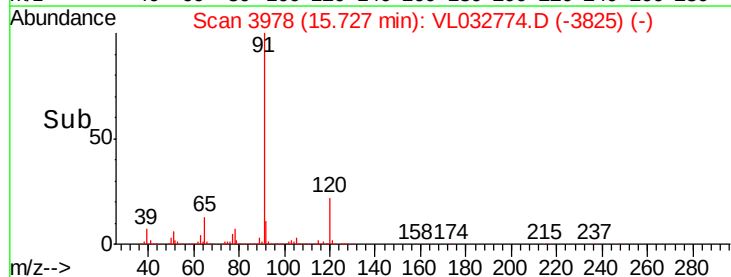
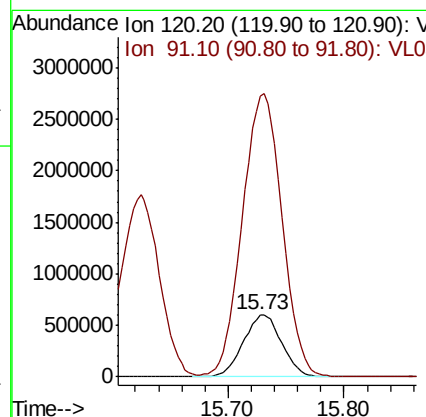
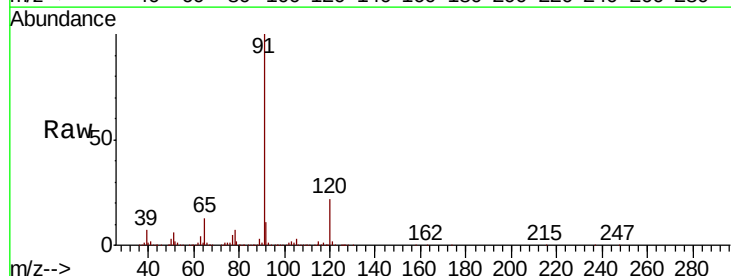
Manual Integrations
 APPROVED

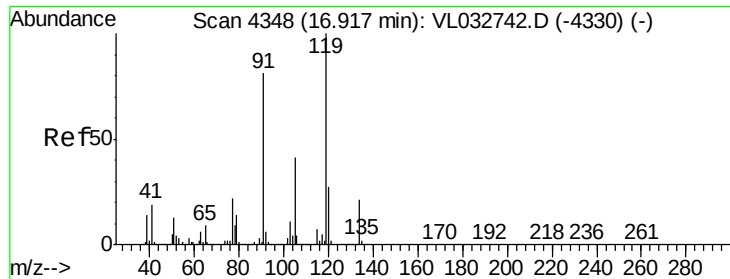
MMDadoda
 11/16/2018 1:30:17 PM



#64
 n-propylbenzene
 Concen: 8.921 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.01 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion	120	Resp	1385258
Ion Ratio	100	Lower	Upper
120	100		
91	471.3	381.7	572.5





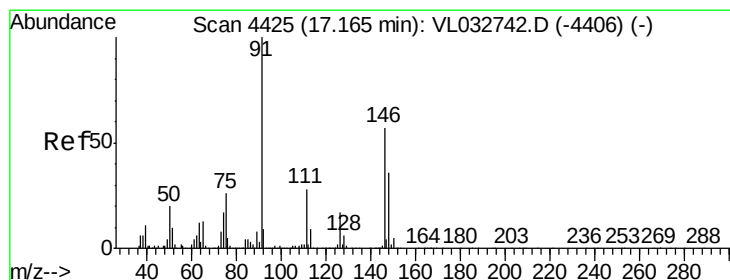
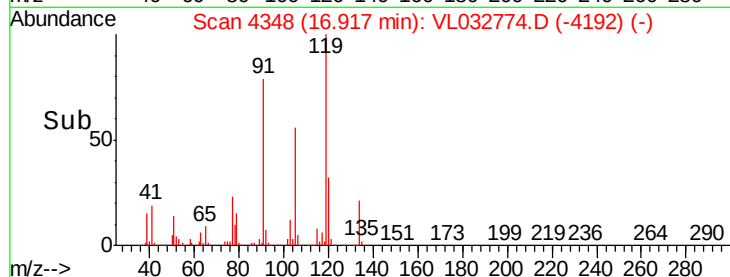
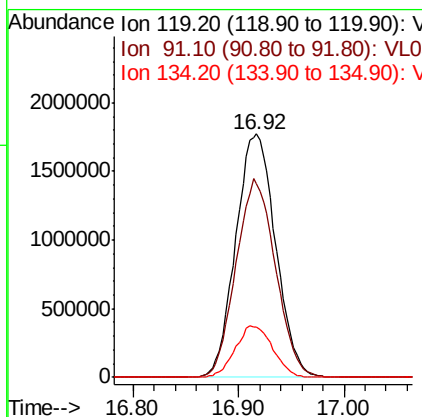
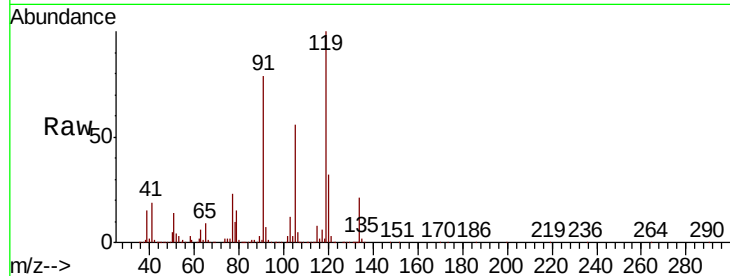
#65
 tert-Butylbenzene
 Concen: 8.786 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 4649731
 Ion Ratio Lower Upper
 119 100
 91 81.0 65.6 98.4
 134 19.9 15.9 23.9

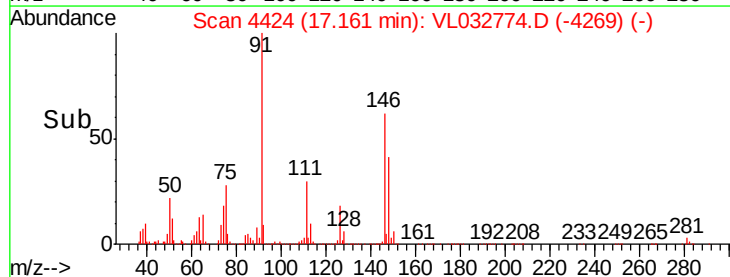
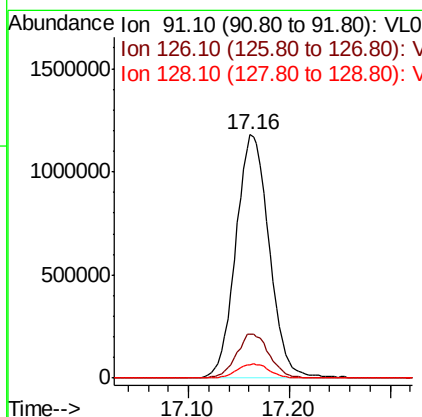
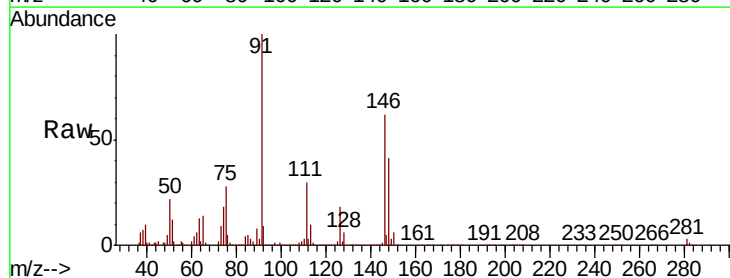
Manual Integrations
 APPROVED

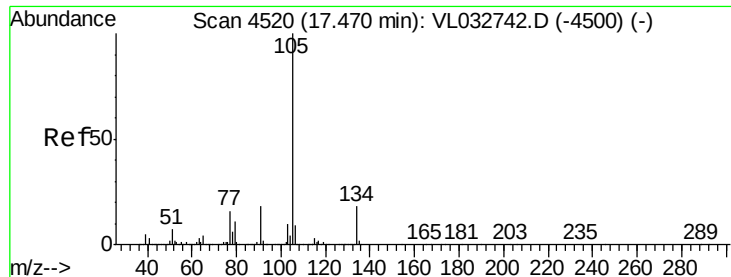
MMDadoda
 11/16/2018 1:30:17 PM



#66
 Benzyl Chloride
 Concen: 9.229 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion: 91 Resp: 2700240
 Ion Ratio Lower Upper
 91 100
 126 17.9 14.2 21.2
 128 5.8 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.678 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6618761

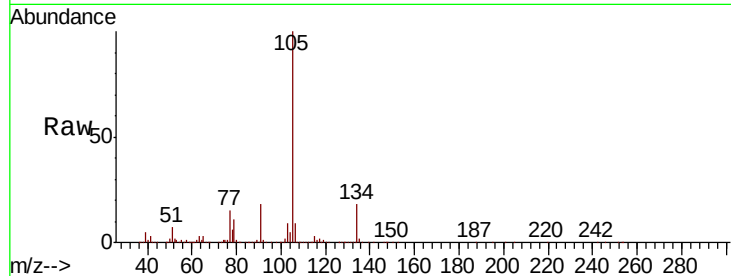
Ion Ratio Lower Upper

105 100

134 18.0 14.6 21.8

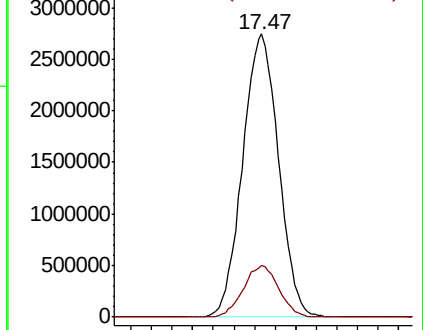
Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:30:17 PM

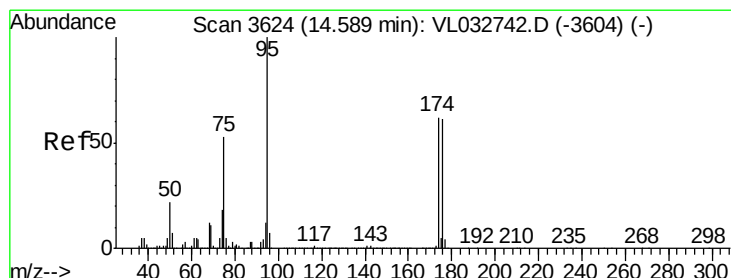
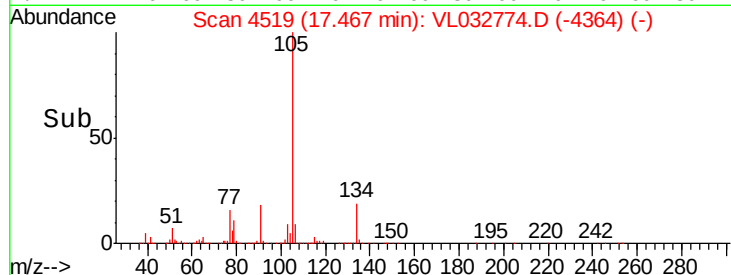


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.519 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

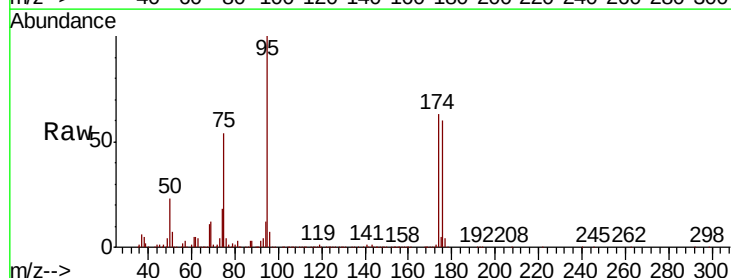
Tgt Ion: 95 Resp: 2886621

Ion Ratio Lower Upper

95 100

174 63.2 50.7 76.1

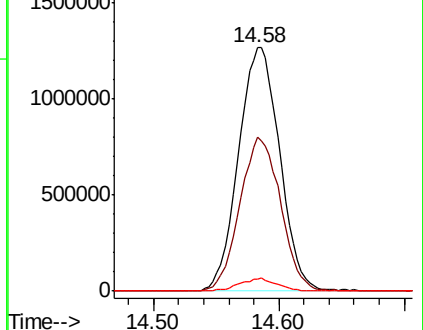
175 4.8 3.8 5.6



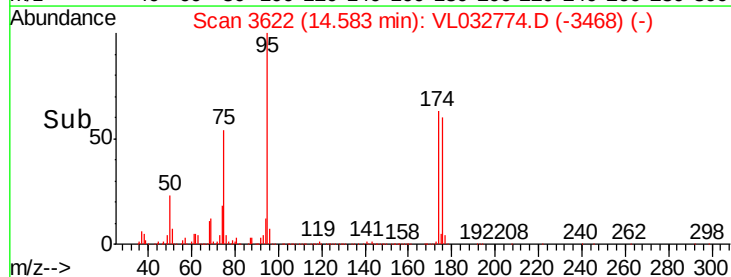
Abundance Ion 95.10 (94.80 to 95.80): VL0

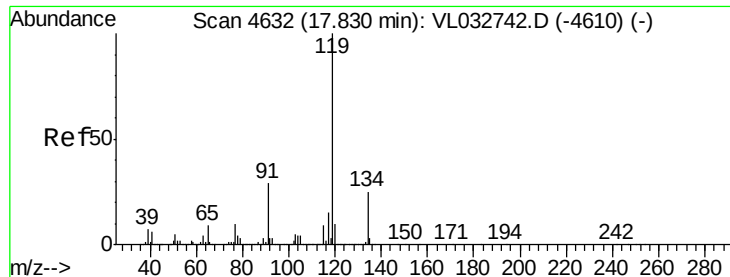
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





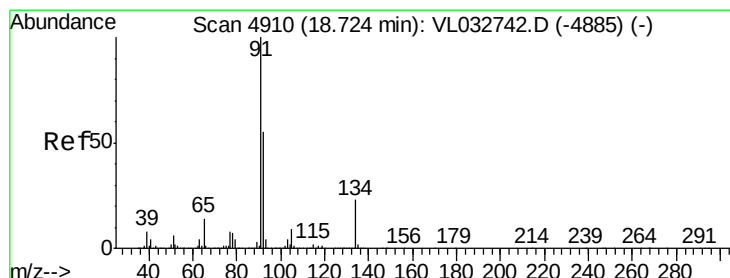
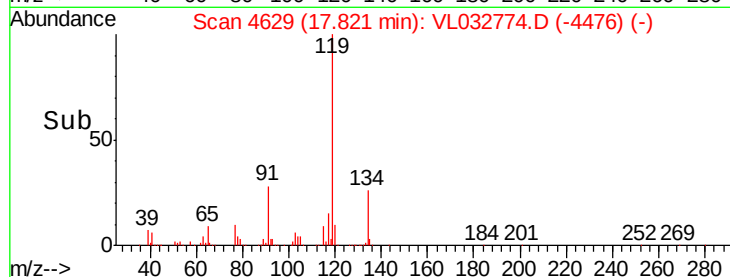
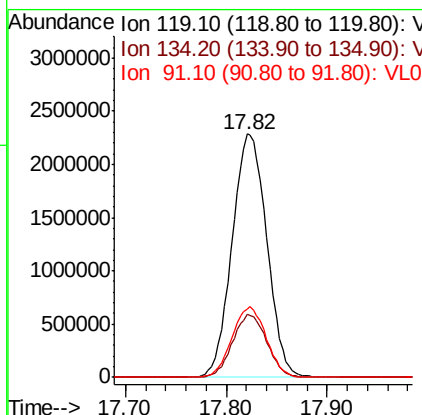
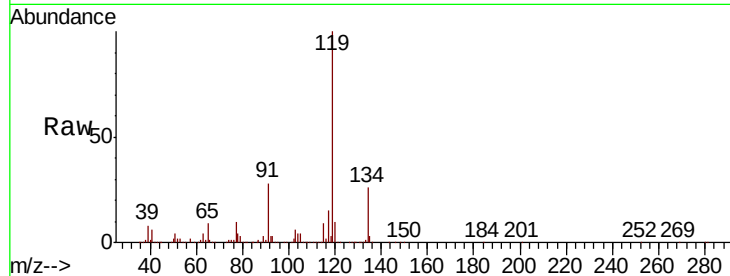
#69
 p-Isopropyltoluene
 Concen: 8.978 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	28.8	23.5	35.3

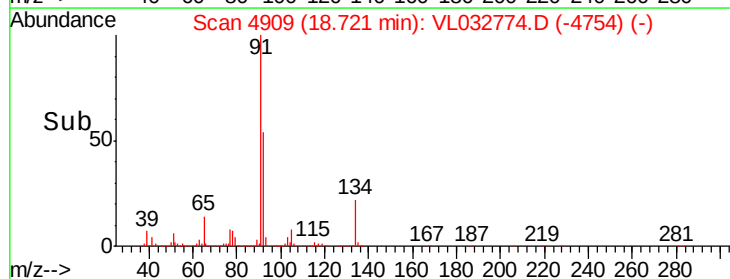
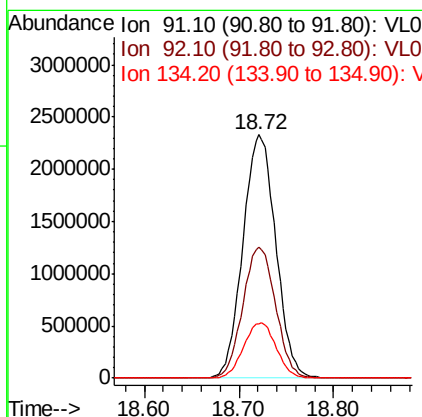
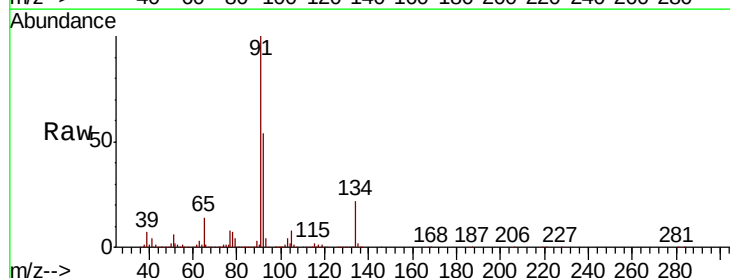
Manual Integrations
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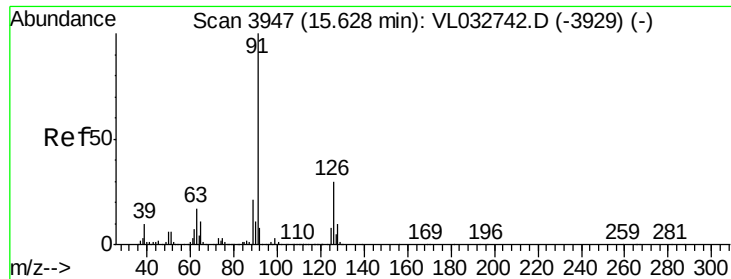
MMDadoda
 11/16/2018 1:30:17 PM



#70
 n-Butylbenzene
 Concen: 9.095 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	42.9	64.3
134	22.7	17.8	26.8





#71

2-Chlorotoluene

Concen: 9.218 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4058383

Ion Ratio Lower Upper

91 100

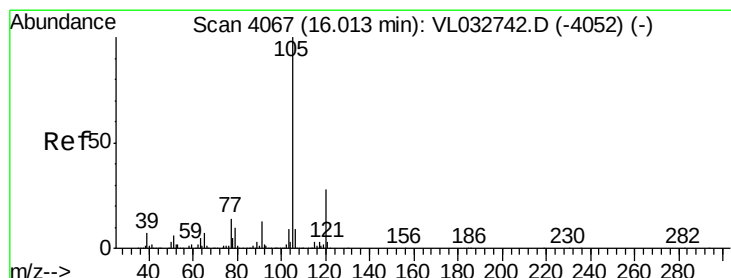
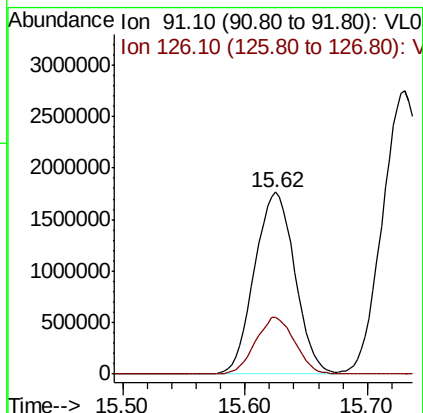
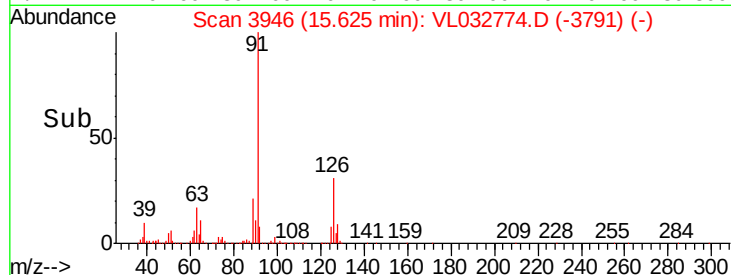
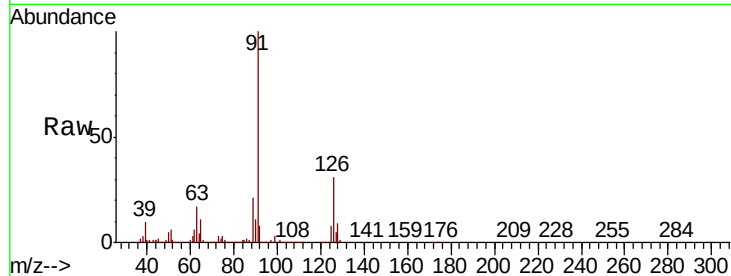
126 30.6 12.1 48.5

Manual Integrations

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MMDadoda

11/16/2018 1:30:17 PM



#72

4-Ethyltoluene

Concen: 9.167 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tgt Ion: 105 Resp: 4388498

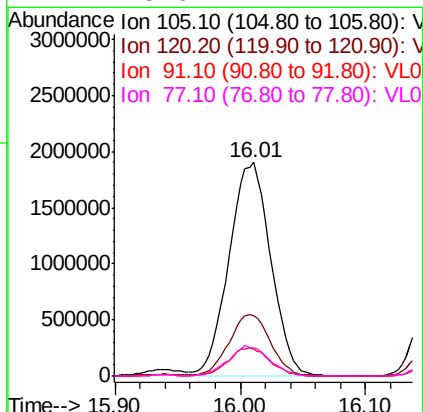
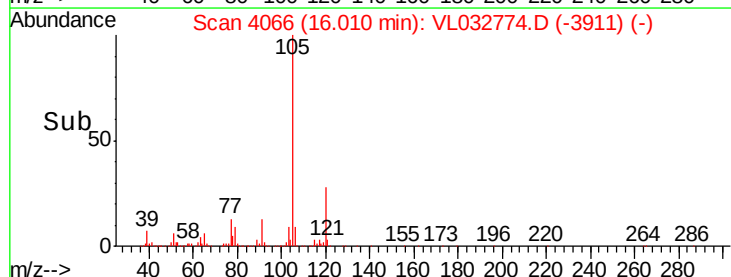
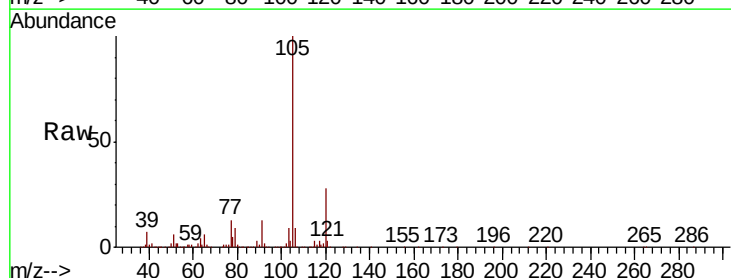
Ion Ratio Lower Upper

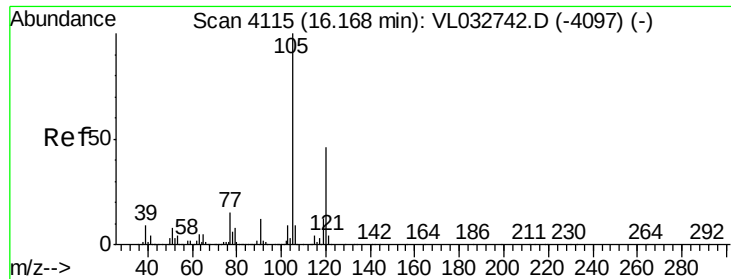
105 100

120 28.8 22.9 34.3

91 13.0 10.6 15.8

77 13.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 8.858 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4145840

Ion Ratio Lower Upper

105 100

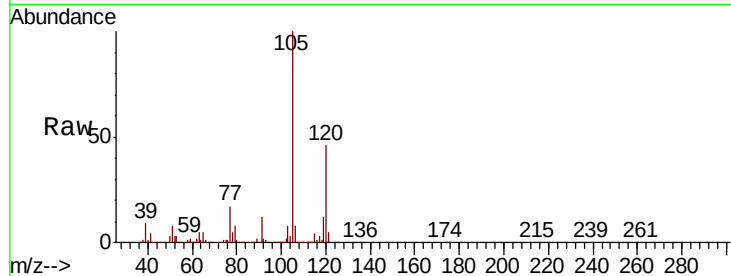
120 45.9 36.6 55.0

Manual Integrations

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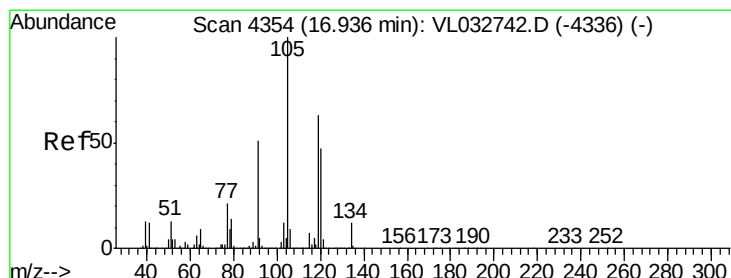
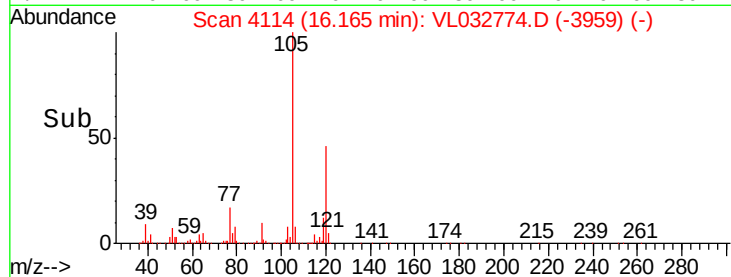
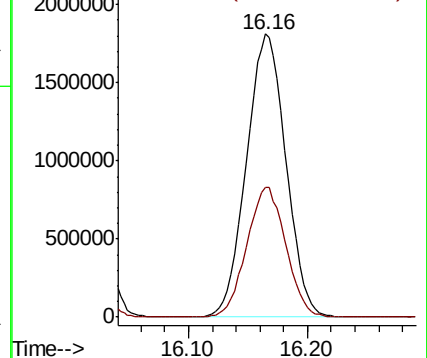
MMDadoda

11/16/2018 1:30:17 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.393 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Tgt Ion:105 Resp: 4203925

Ion Ratio Lower Upper

105 100

120 46.9 37.6 56.4

91 41.1 42.5 63.7#

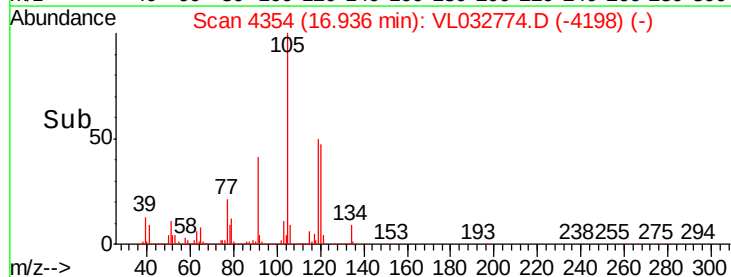
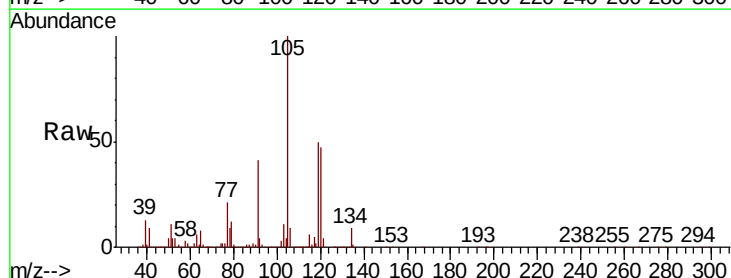
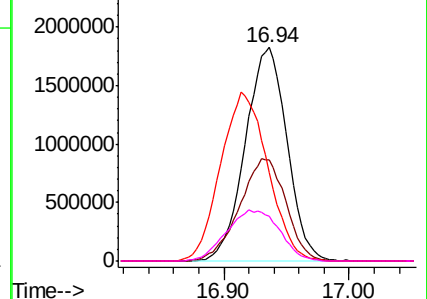
77 20.7 17.4 26.2

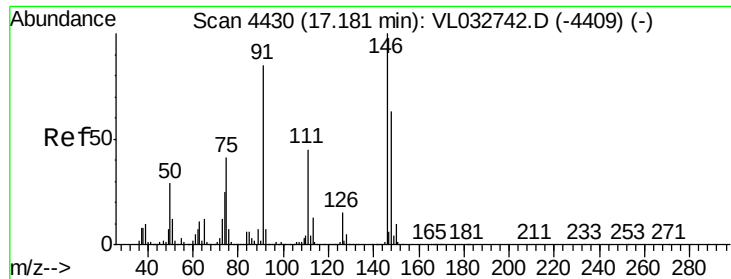
Abundance Ion 105.10 (104.80 to 105.80): V

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





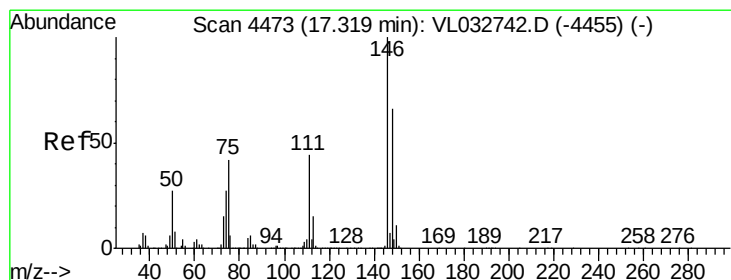
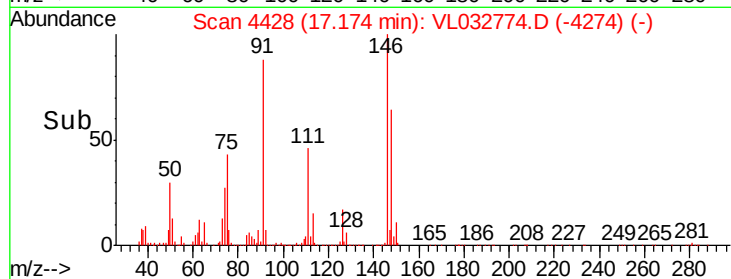
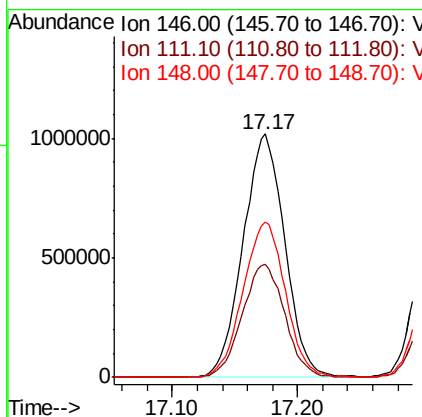
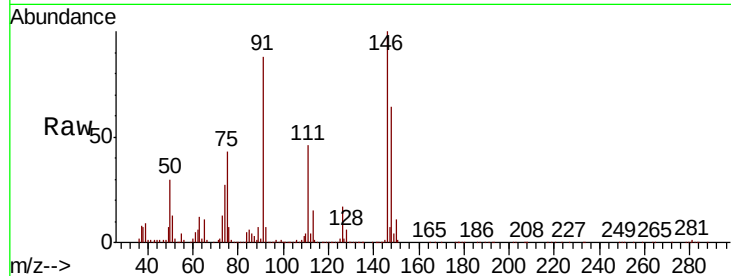
#75
 1,3-Dichlorobenzene
 Concen: 8.196 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.5	70.6
148	64.9	31.8	95.3

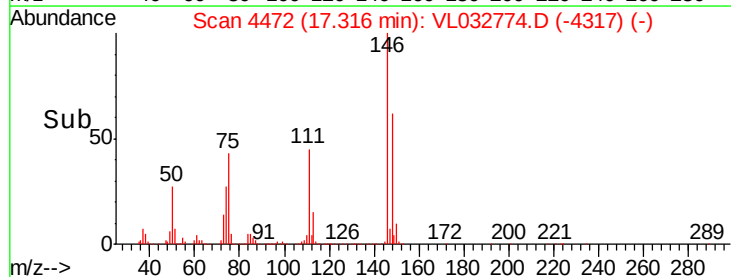
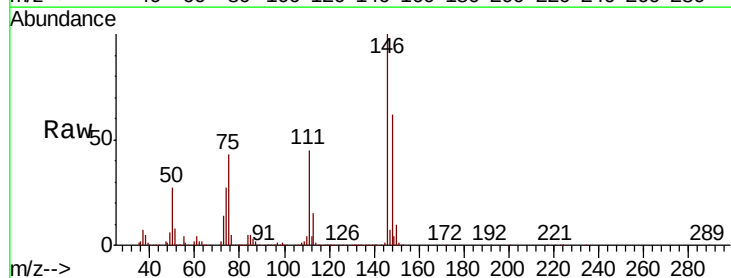
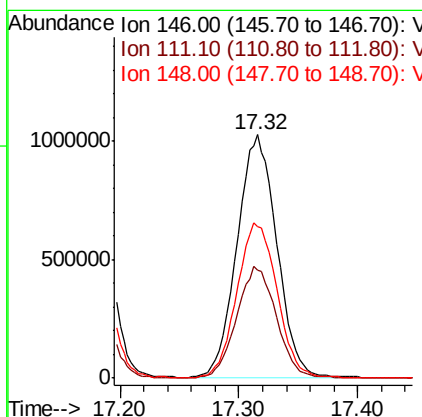
Manual Integrations
 APPROVED

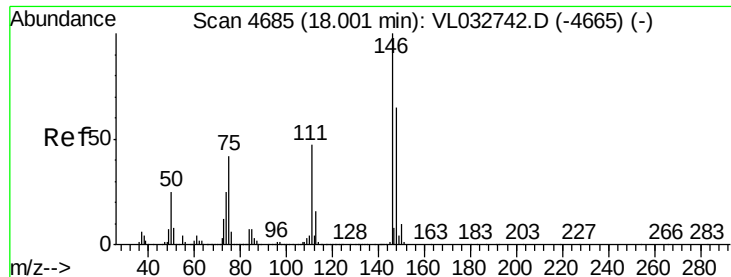
MMDadoda
 11/16/2018 1:30:17 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.782 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.5	67.5
148	64.9	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 8.822 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. -0.01 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2344834

Ion Ratio Lower Upper

146 100

111 48.1 24.4 73.2

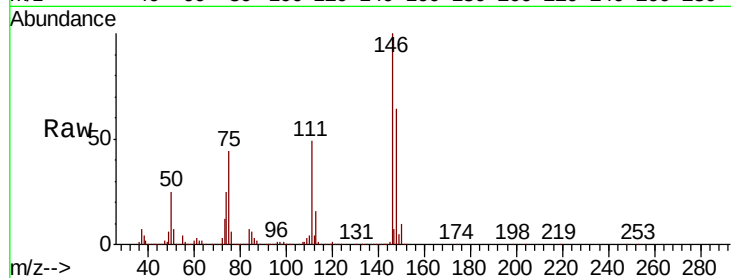
148 63.7 32.2 96.6

Manual Integrations

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MMDadoda

11/16/2018 1:30:17 PM

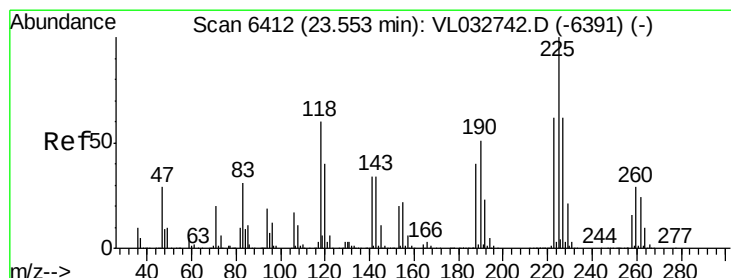
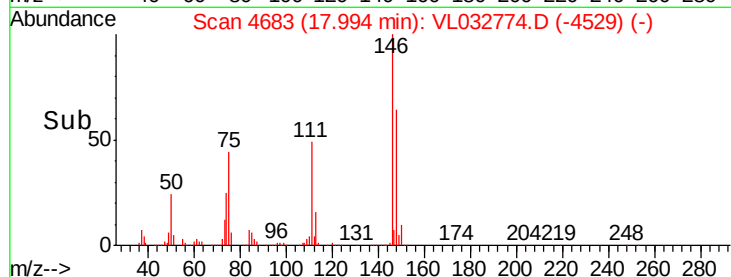
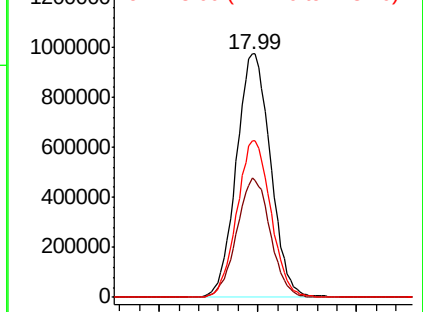


Abundance

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



#78

Hexachloro-1,3-Butadiene

Concen: 12.122 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.01 min

Lab File: VL032774.D

Acq: 15 Nov 2018 00:57

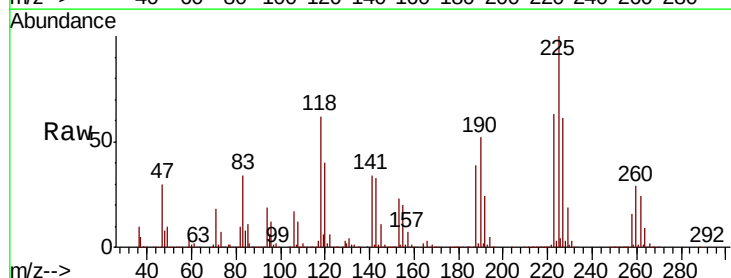
Tgt Ion:225 Resp: 1738810

Ion Ratio Lower Upper

225 100

223 63.2 50.3 75.5

227 63.1 50.2 75.4

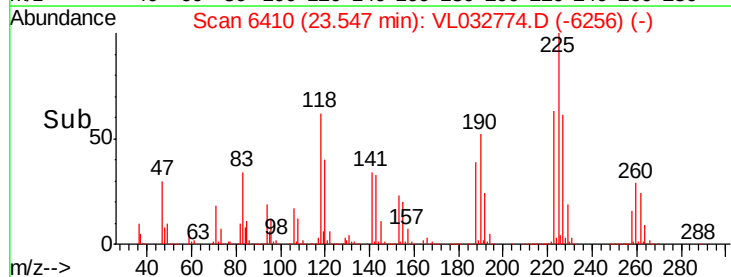
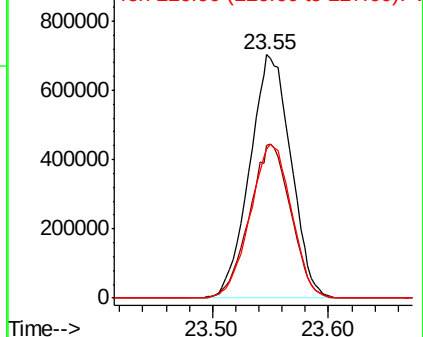


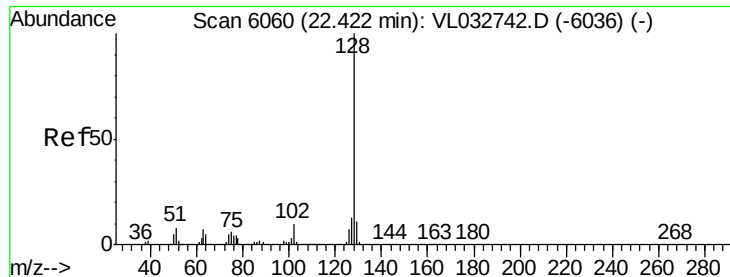
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





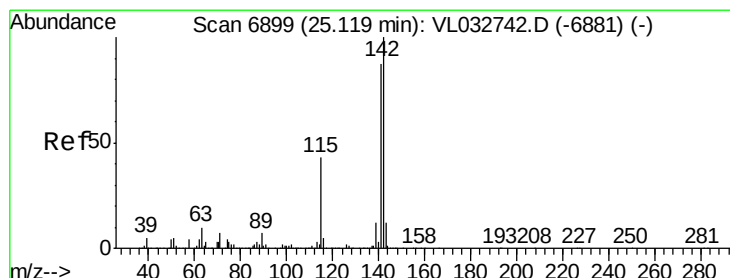
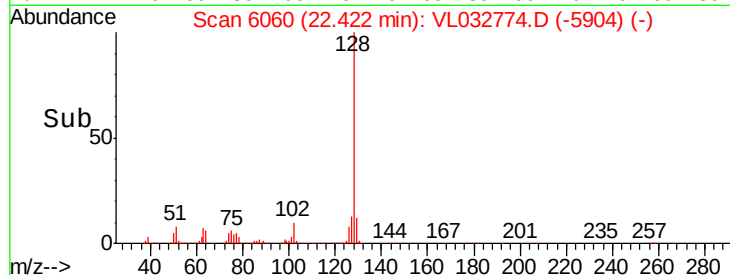
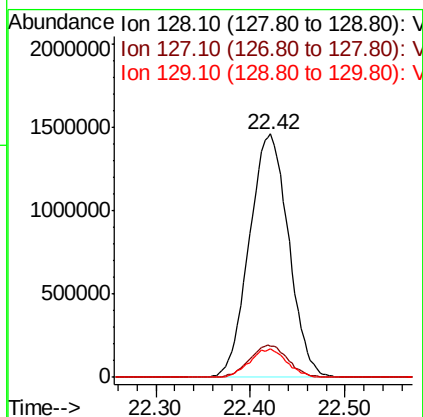
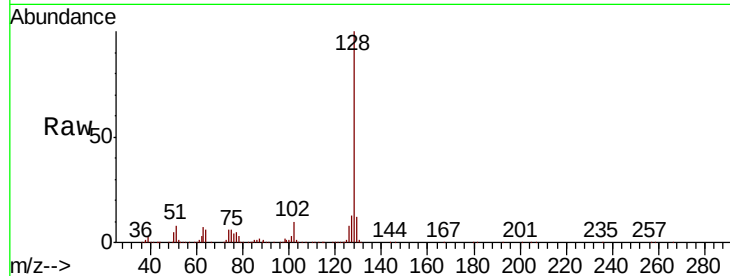
#79
Naphthalene
Concen: 12.788 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.6	8.9	13.3

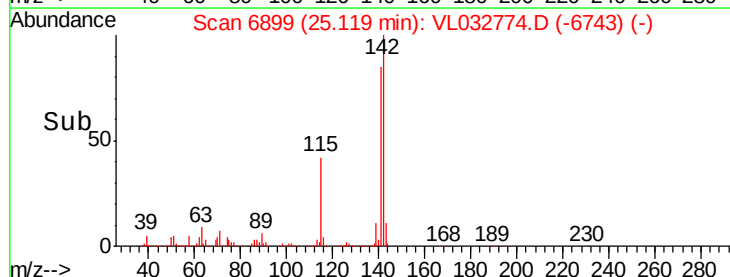
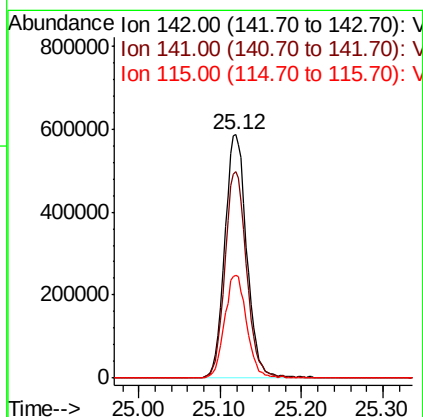
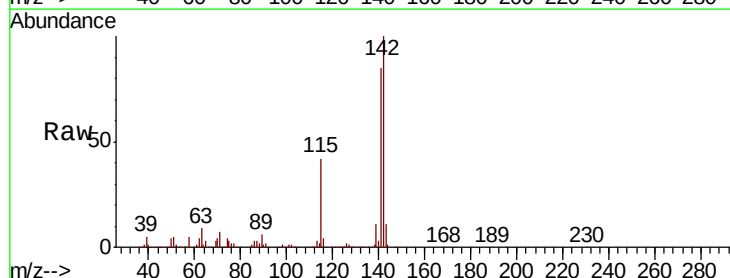
Manual Integrations
APPROVED

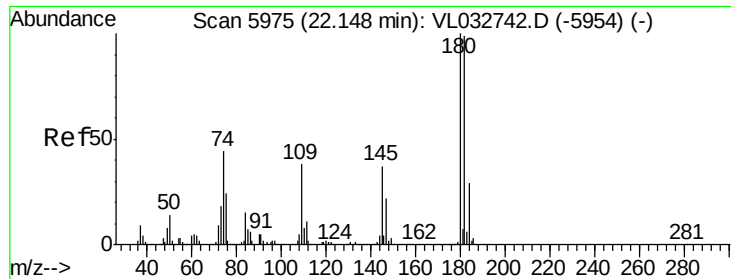
MMDadoda
11/16/2018 1:30:17 PM



#80
Naphthalene, 2-methyl-
Concen: 13.630 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL032774.D
Acq: 15 Nov 2018 00:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.7	103.1
115	42.3	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 11.874 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.01 min
 Lab File: VL032774.D
 Acq: 15 Nov 2018 00:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.3	115.9
184	30.5	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:17 PM

