

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033305.D
 Acq On : 13 Mar 2019 22:43
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:52 PM

Quant Time: Mar 13 23:56:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 00:00:00 2019
 QLast Update : Wed Mar 13 20:55:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	773928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1885199	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2229565m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1638498	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1500773	12.268	ppbv	99
3) Chlorodifluoromethane	3.01	51	1324319	13.227	ppbv	100
4) Chloromethane	3.17	50	715092	13.187	ppbv	98
5) Vinyl Chloride	3.29	62	708094	12.985	ppbv	100
6) Bromomethane	3.51	94	445171	13.678	ppbv	96
7) Chloroethane	3.60	64	272527	14.193	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1679298	13.335	ppbv	98
9) Propene	3.03	41	612702	13.708	ppbv	99
10) Heptane	8.25	43	1609697	14.649	ppbv	99
11) Trichlorofluoromethane	4.00	101	1968108	13.791	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1322889	13.725	ppbv	100
13) Ethanol	3.64	45	135390	9.566	ppbv	100
14) Bromoethene	3.79	108	592481	14.899	ppbv	99
15) Acetone	3.90	43	1286145	12.041	ppbv	99
16) 1,3-Butadiene	3.36	39	564372	12.781	ppbv	84
17) tert-Butyl alcohol	4.35	59	243860	13.045	ppbv	99
18) 1,1-Dichloroethene	4.35	96	605139	14.431	ppbv	97
19) Isopropyl Alcohol	4.02	45	826033	12.244	ppbv	100
20) Methylene Chloride	4.41	84	506875	11.863	ppbv	98
21) Allyl Chloride	4.48	41	954803	15.089	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	617242	14.460	ppbv	96
23) Vinyl Acetate	5.16	43	2307718	15.364	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1545806	14.164	ppbv	99
25) Ethyl Acetate	5.77	43	2633002	13.764	ppbv	100
26) Hexane	5.78	57	1172504	13.065	ppbv	99
27) Carbon Disulfide	4.62	76	1527444	16.025	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1890962	15.061	ppbv	99
29) Chloroform	5.85	83	1968048	14.151	ppbv	100
30) Cyclohexane	7.25	84	1038087	15.156	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1258353	14.783	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1939215	14.272	ppbv	99
34) 2-Butanone	5.33	43	1780701	13.852	ppbv	99
35) Carbon Tetrachloride	7.14	117	2055843	14.217	ppbv	99
36) Benzene	7.01	78	2564421	14.030	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1502198	13.463	ppbv	99
38) Trichloroethene	7.96	130	953884	13.048	ppbv	97
39) 1,2-Dichloropropane	7.74	63	974745	13.845	ppbv	97
40) 1,4-Dioxane	7.95	88	328577	12.234	ppbv	70
41) Tetrahydrofuran	6.15	42	1027339	14.308	ppbv	99
42) Bromodichloromethane	7.92	83	2187659	14.153	ppbv	99
43) Methyl Methacrylate	8.14	69	1063296	14.561	ppbv	100

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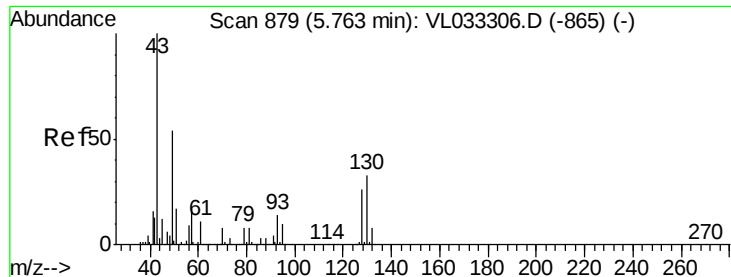
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Quant Time: Mar 13 23:56:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 14 00:00:00 2019
 QLast Update : Wed Mar 13 20:55:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4147826	13.106	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1438058	16.891	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1619714	15.700	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1039006	13.874	ppbv	98
48) Dibromochloromethane	10.45	129	1860067	14.715	ppbv	99
49) Bromoform	13.21	173	1801803	17.223	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2595647	13.801	ppbv	99
51) 2-Hexanone	10.27	43	2066894	14.448	ppbv #	100
52) Tetrachloroethene	11.38	164	920842	12.002	ppbv	95
53) Toluene	9.95	91	3006975	14.370	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1664694	13.290	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1407296	14.157	ppbv #	73
57) Chlorobenzene	12.31	112	2386812	13.356	ppbv	100
58) Ethyl Benzene	12.87	91	4570707	14.343	ppbv	99
59) m/p-Xylene	13.16	91	7519003m	28.072	ppbv	
60) o-Xylene	13.85	91	3586358	13.878	ppbv	99
61) Styrene	13.69	104	2781771	15.509	ppbv	99
62) Isopropylbenzene	14.83	105	5147645	14.265	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2463481	13.366	ppbv	100
64) n-propylbenzene	15.72	120	1314192	14.785	ppbv	95
65) tert-Butylbenzene	16.91	119	4473732	14.764	ppbv	99
66) Benzyl Chloride	17.16	91	2479734	21.320	ppbv	99
67) sec-Butylbenzene	17.46	105	6425864	14.706	ppbv	99
69) p-Isopropyltoluene	17.82	119	5323758	15.212	ppbv	99
70) n-Butylbenzene	18.72	91	5597983	15.049	ppbv	99
71) 2-Chlorotoluene	15.62	91	3954319	14.738	ppbv	100
72) 4-Ethyltoluene	16.01	105	4237511	15.441	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	4064243	15.903	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	4066539	15.422	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	2351863	14.229	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2394937	14.767	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2346947	14.485	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1285180	9.689	ppbv	99
79) Naphthalene	22.42	128	4471588	16.924	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2226077	31.461	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2204757	15.576	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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MSVOA_L

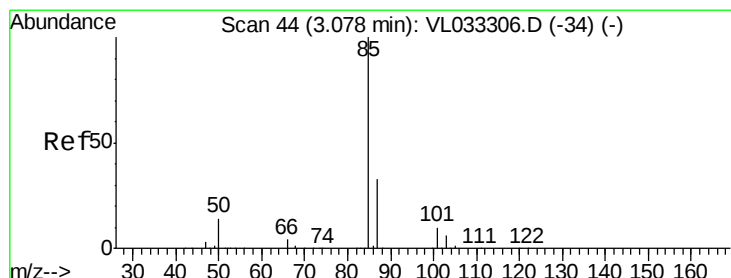
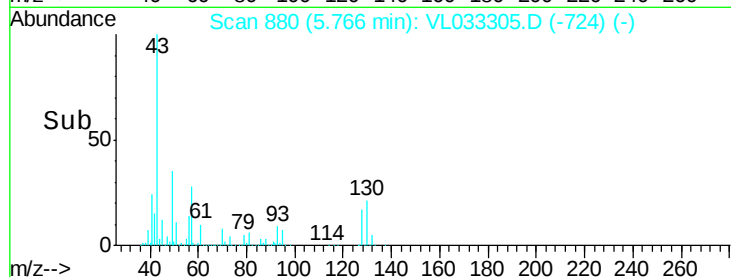
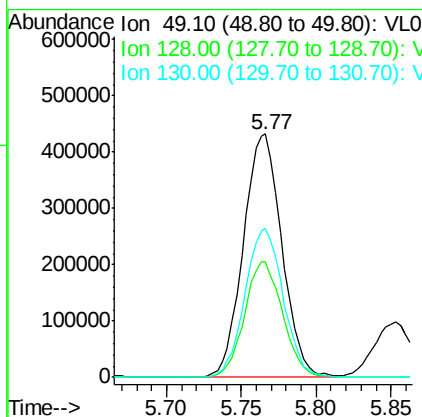
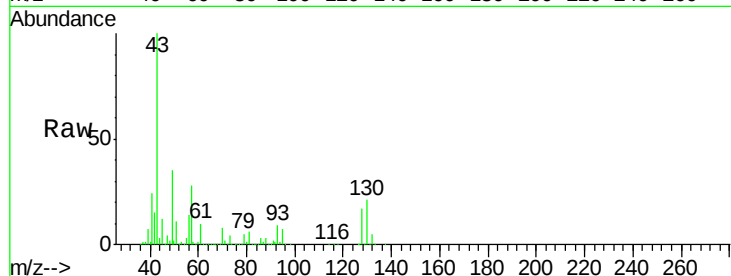
ClientSampleId :

VSTDIC015

Tgt Ion:	49	Resp:	773928
Ion Ratio	Lower	Upper	
49	100		
128	47.1	23.4	70.3
130	60.9	29.9	89.7

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#2

Dichlorodifluoromethane

Concen: 12.268 ppbv

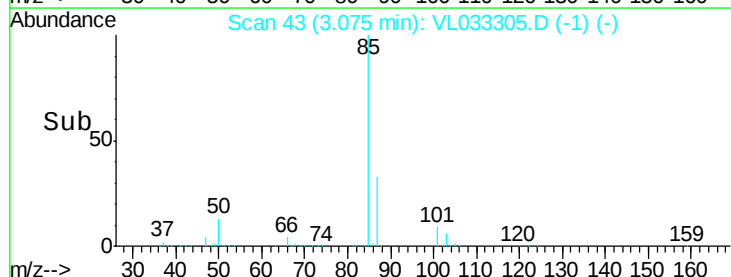
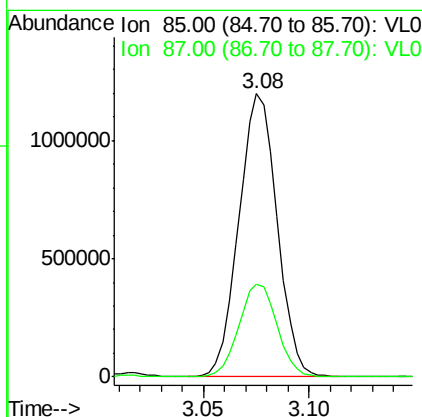
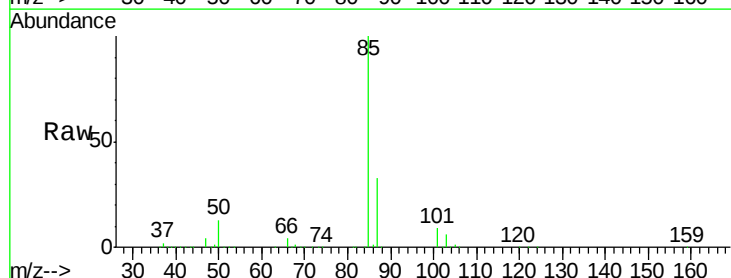
RT: 3.08 min Scan# 43

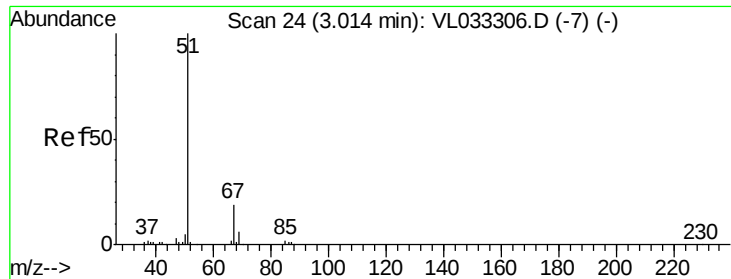
Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Tgt Ion:	85	Resp:	1500773
Ion Ratio	Lower	Upper	
85	100		
87	32.7	25.8	38.8





#3

Chlorodifluoromethane

Concen: 13.227 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 51 Resp: 1324319

Ion Ratio Lower Upper

51 100

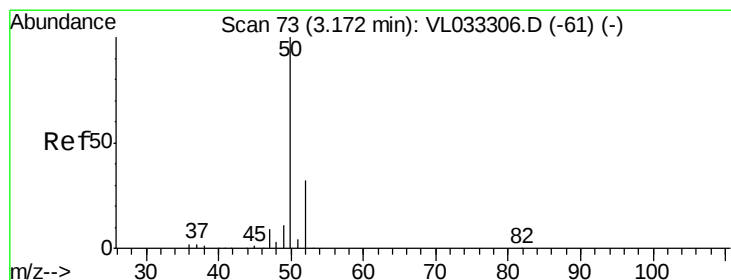
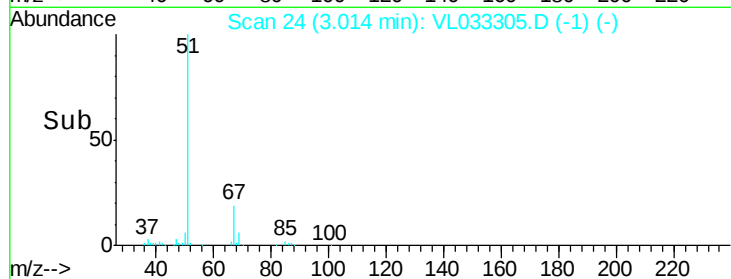
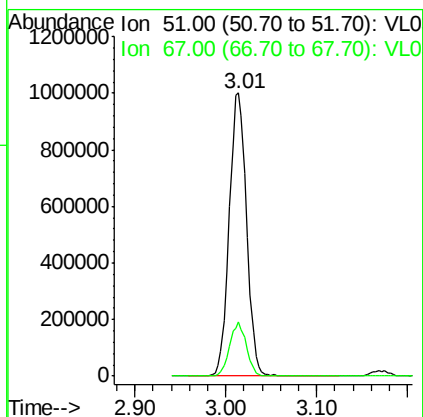
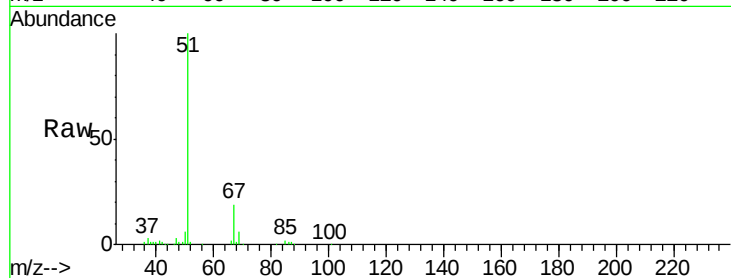
67 18.5 14.9 22.3

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#4

Chloromethane

Concen: 13.187 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033305.D

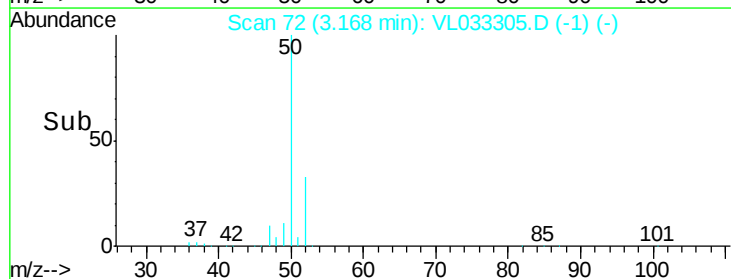
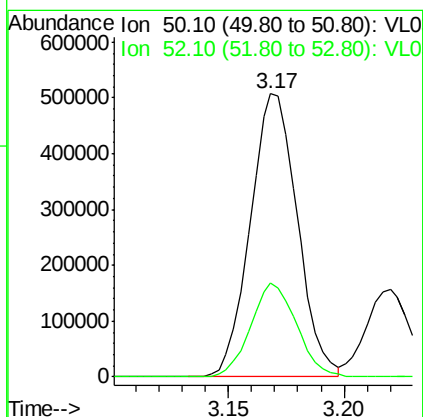
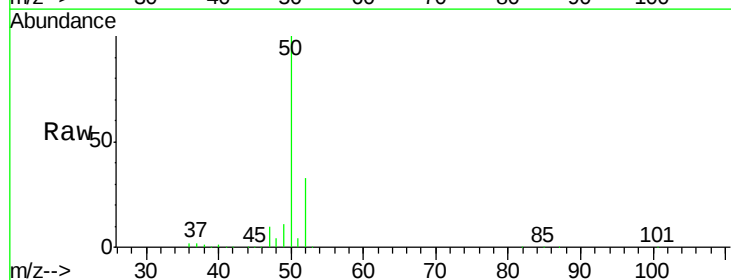
Acq: 13 Mar 2019 22:43

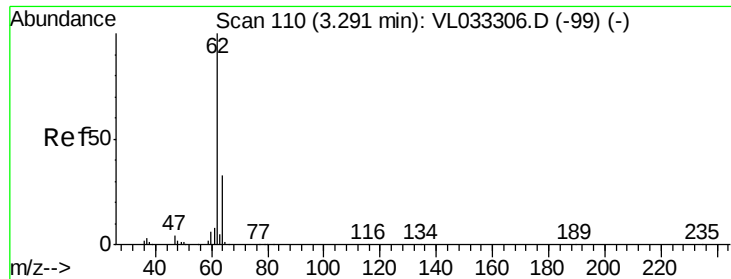
Tgt Ion: 50 Resp: 715092

Ion Ratio Lower Upper

50 100

52 33.4 25.7 38.5





#5

Vinyl Chloride

Concen: 12.985 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 708094

Ion Ratio Lower Upper

62 100

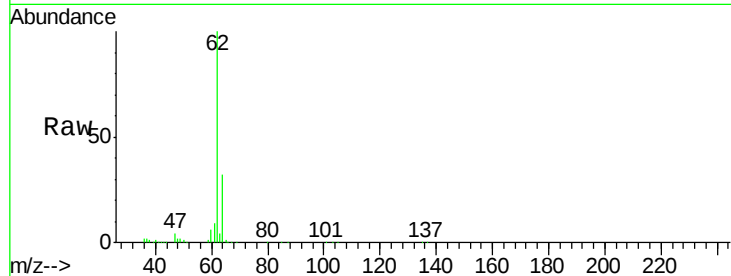
64 31.8 25.5 38.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

500000

400000

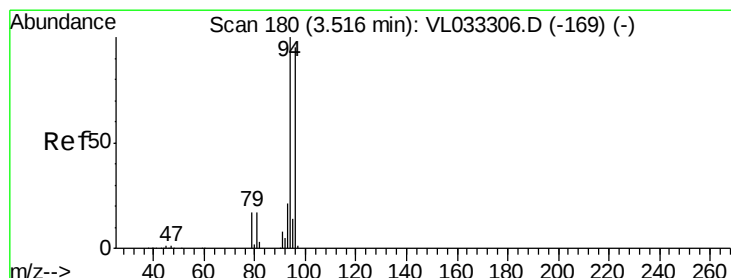
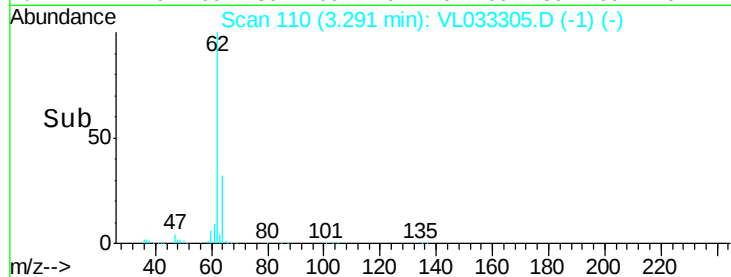
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 13.678 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033305.D

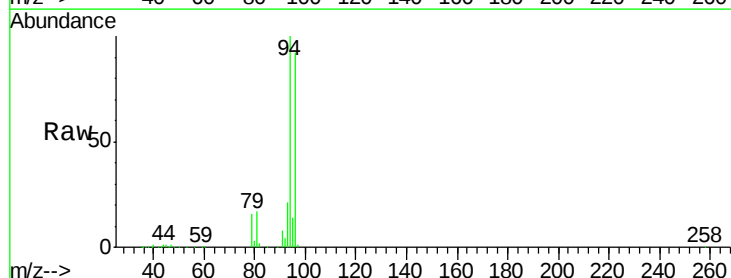
Acq: 13 Mar 2019 22:43

Tgt Ion: 94 Resp: 445171

Ion Ratio Lower Upper

94 100

96 91.6 76.2 114.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

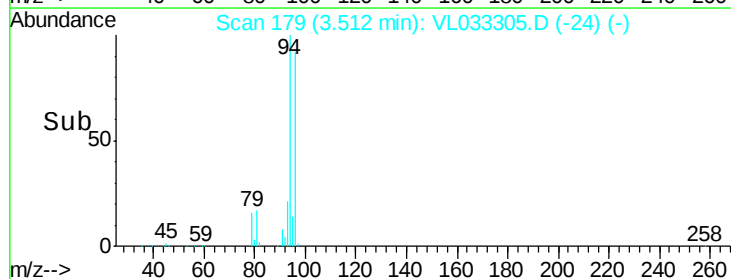
300000

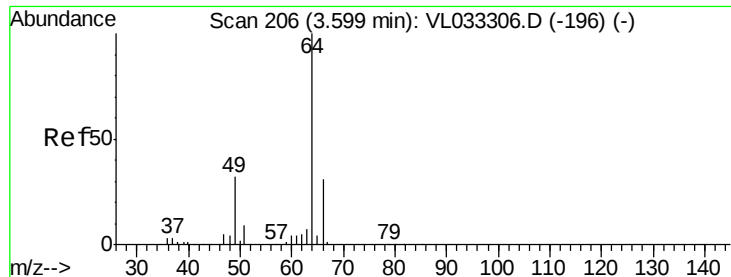
200000

100000

0

Time-->





#7

Chloroethane

Concen: 14.193 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 64 Resp: 272527

Ion Ratio Lower Upper

64 100

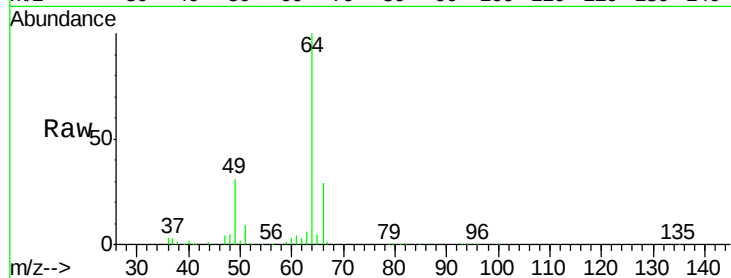
66 28.6 24.9 37.3

Manual Integrations

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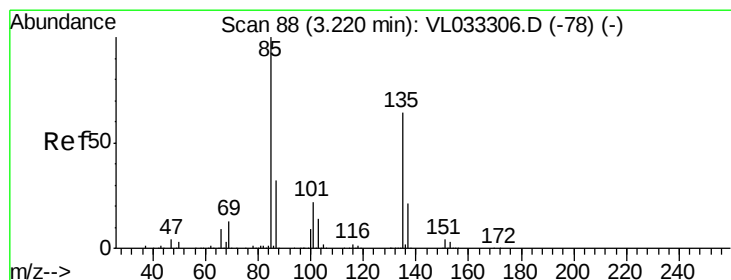
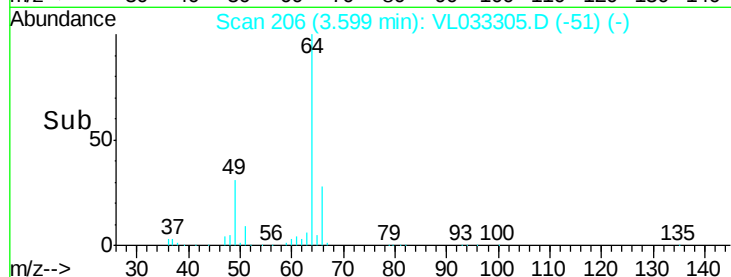
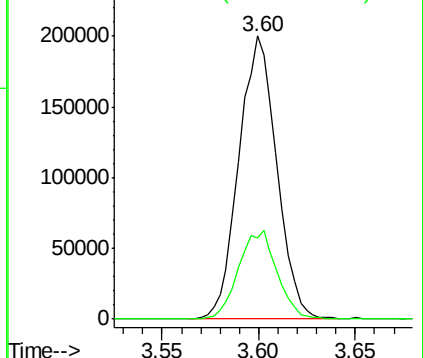
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 13.335 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033305.D

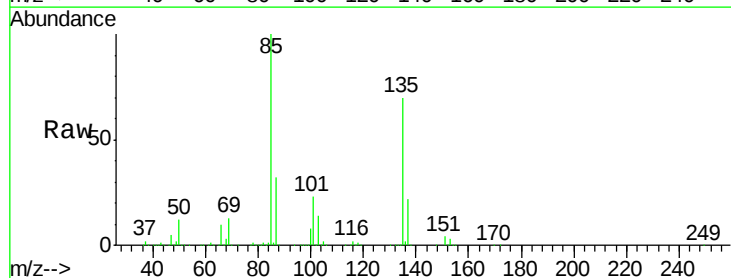
Acq: 13 Mar 2019 22:43

Tgt Ion: 85 Resp: 1679298

Ion Ratio Lower Upper

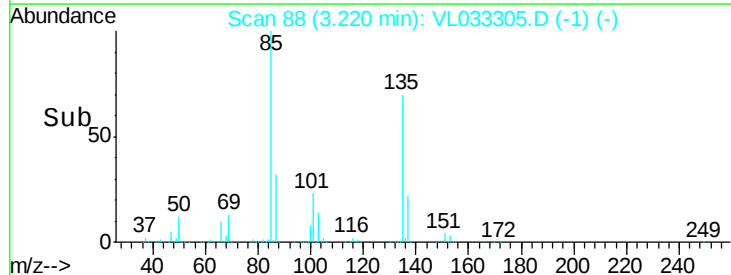
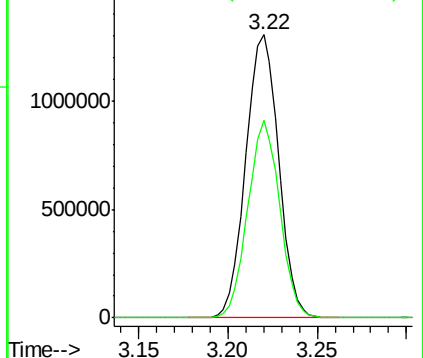
85 100

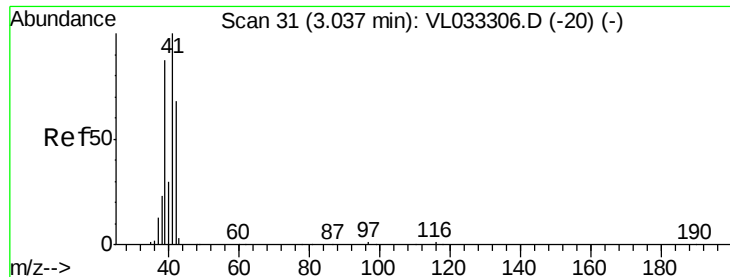
135 68.0 52.9 79.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.708 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion: 41 Resp: 612702

Ion Ratio Lower Upper

41 100

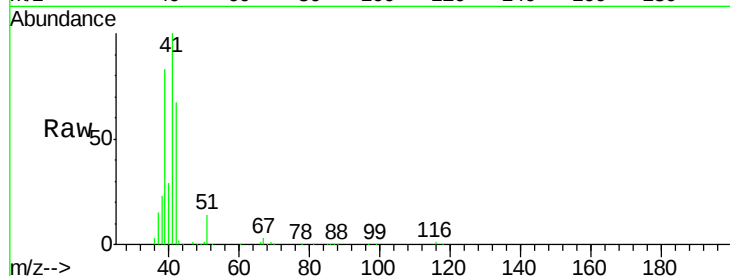
42 68.6 54.4 81.6

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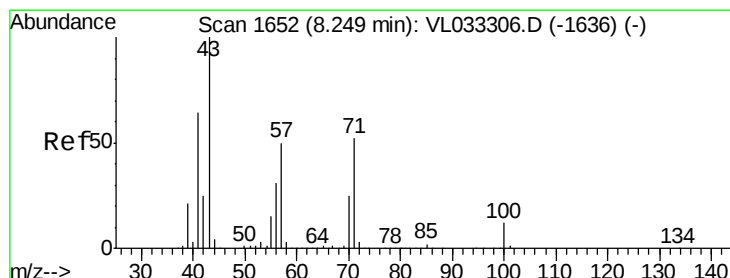
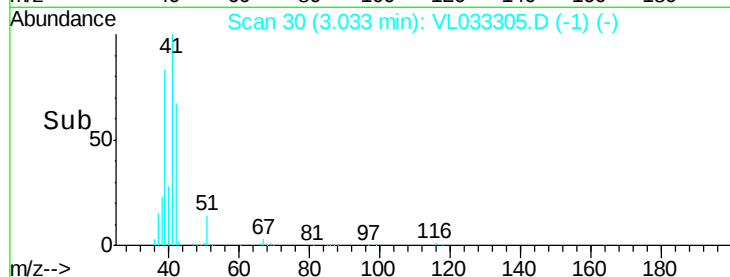
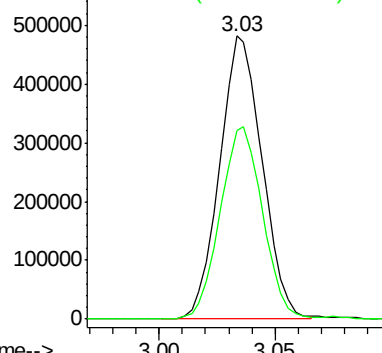
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 14.649 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033305.D

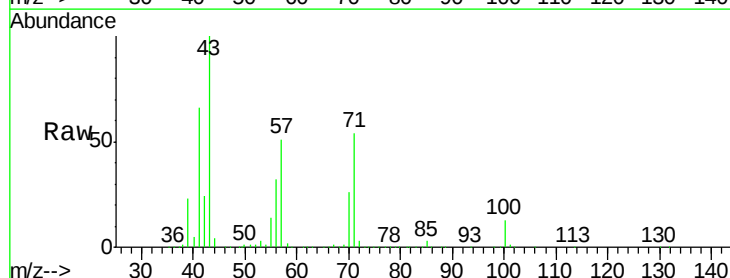
Acq: 13 Mar 2019 22:43

Tgt Ion: 43 Resp: 1609697

Ion Ratio Lower Upper

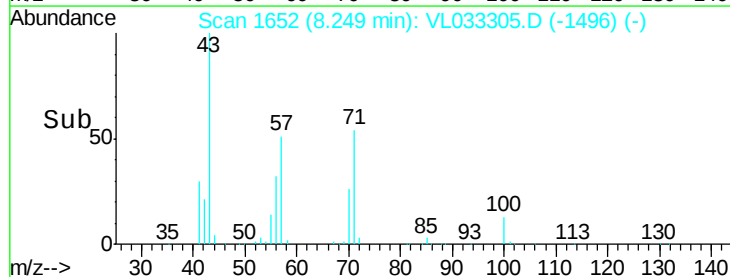
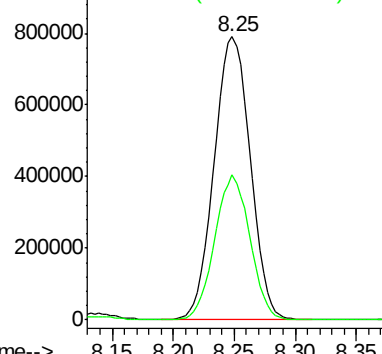
43 100

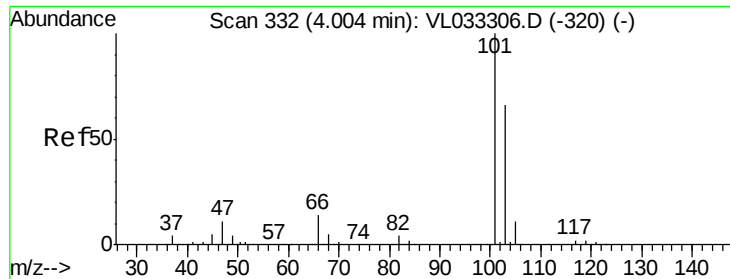
57 50.0 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 13.791 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

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Acq: 13 Mar 2019 22:43

Instrument :

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Tgt Ion:101 Resp: 1968108

Ion Ratio Lower Upper

101 100

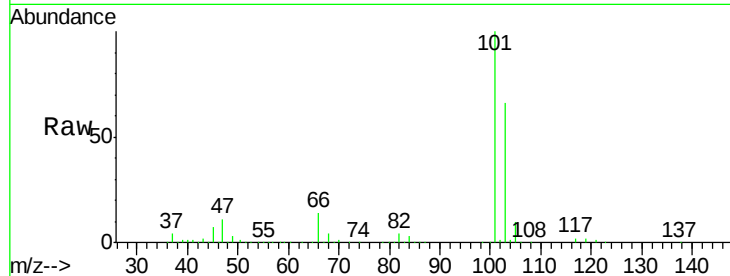
103 65.6 52.5 78.7

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

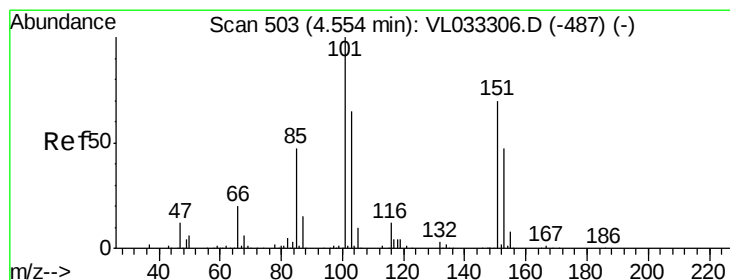
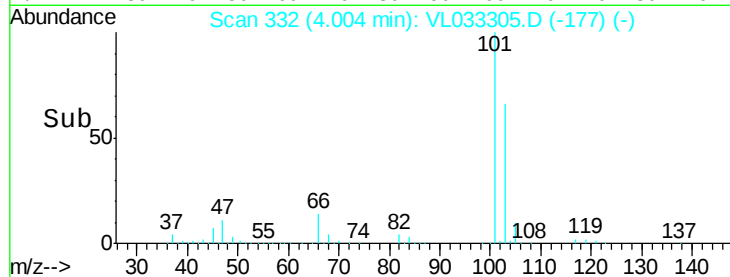
4.00

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.725 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033305.D

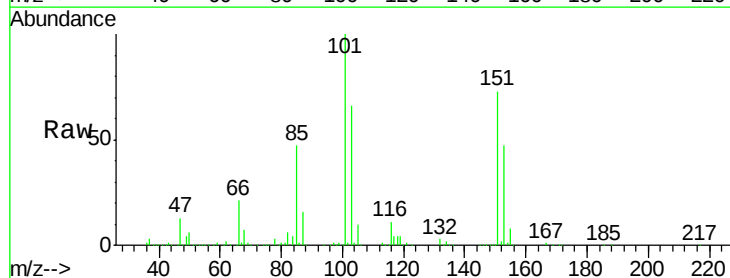
Acq: 13 Mar 2019 22:43

Tgt Ion:101 Resp: 1322889

Ion Ratio Lower Upper

101 100

151 71.5 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

4.55

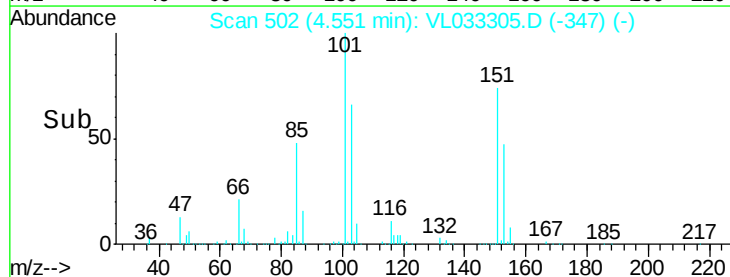
600000

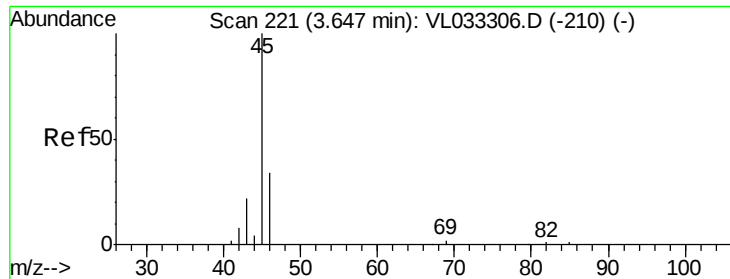
400000

200000

0

Time-->





#13

Ethanol

Concen: 9.566 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 45 Resp: 135390

Ion Ratio Lower Upper

45 100

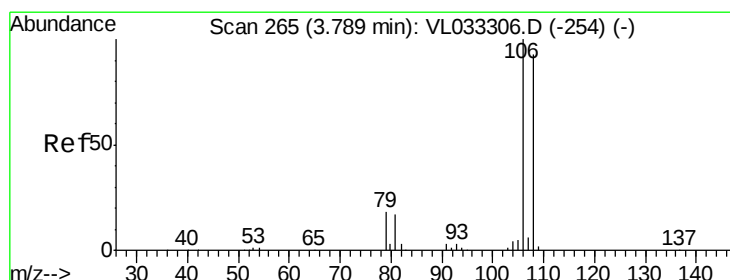
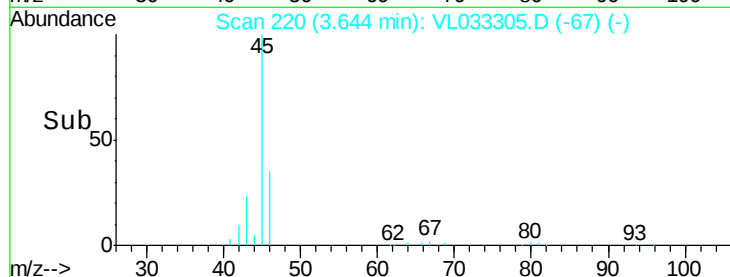
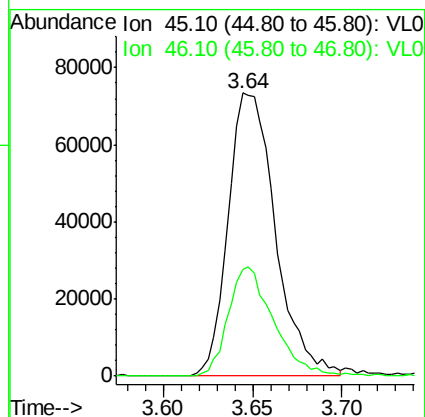
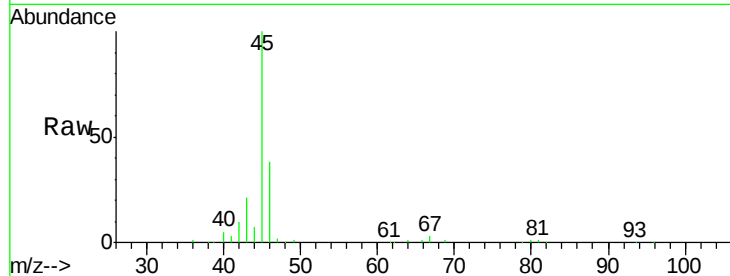
46 37.1 14.9 59.5

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#14

Bromoethene

Concen: 14.899 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

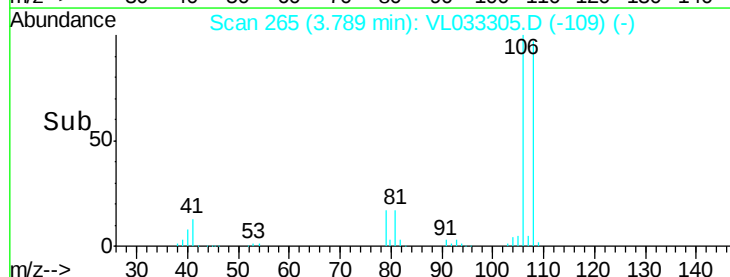
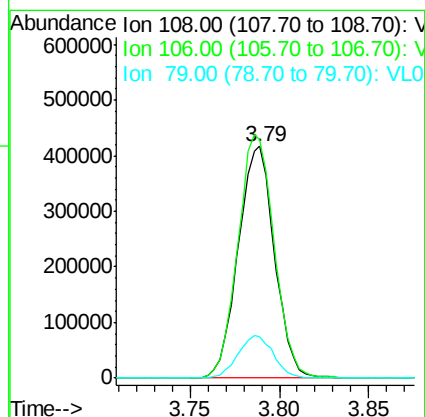
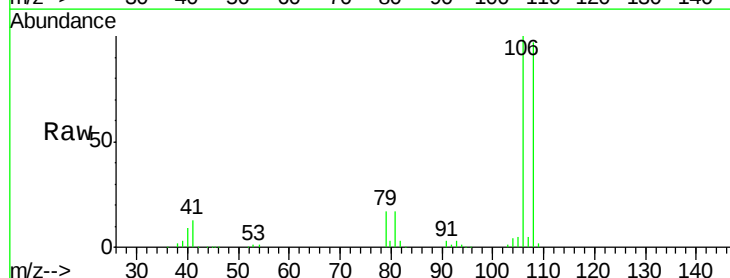
Tgt Ion: 108 Resp: 592481

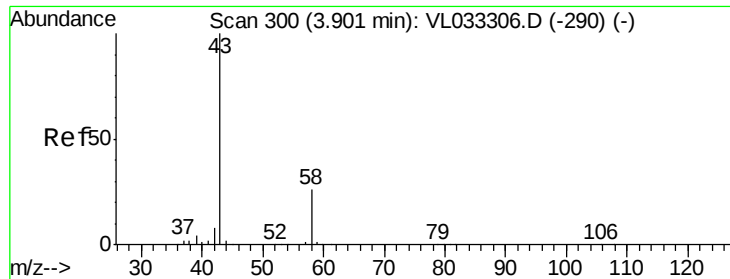
Ion Ratio Lower Upper

108 100

106 105.4 85.1 127.7

79 18.4 15.0 22.6





#15

Acetone

Concen: 12.041 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 1286145

Ion Ratio Lower Upper

43 100

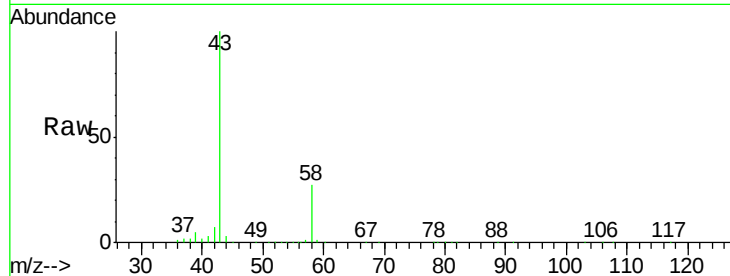
58 26.3 20.6 31.0

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

1000000

800000

600000

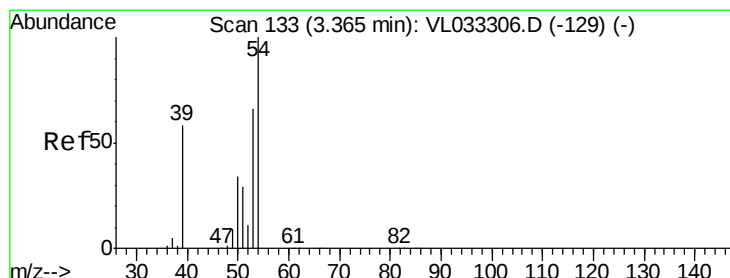
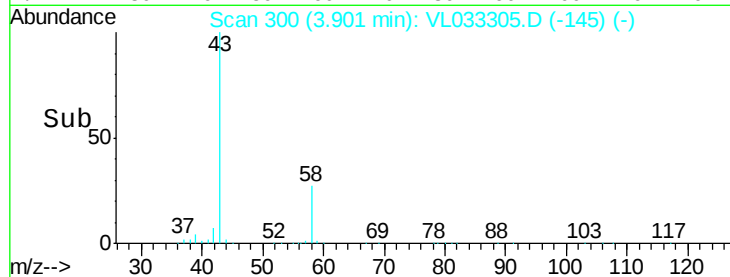
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 12.781 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033305.D

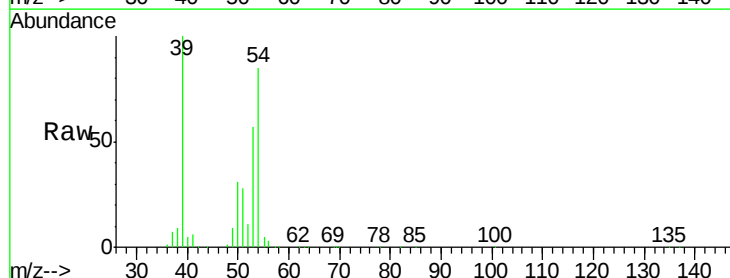
Acq: 13 Mar 2019 22:43

Tgt Ion: 39 Resp: 564372

Ion Ratio Lower Upper

39 100

54 99.8 68.4 102.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

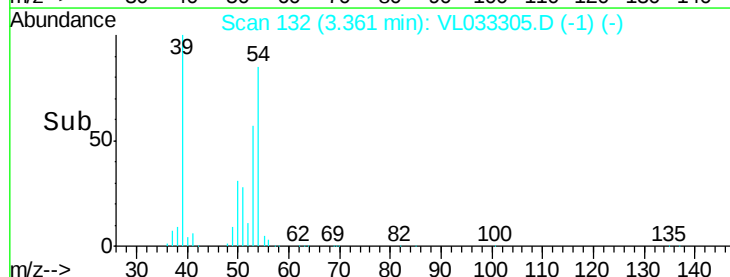
200000

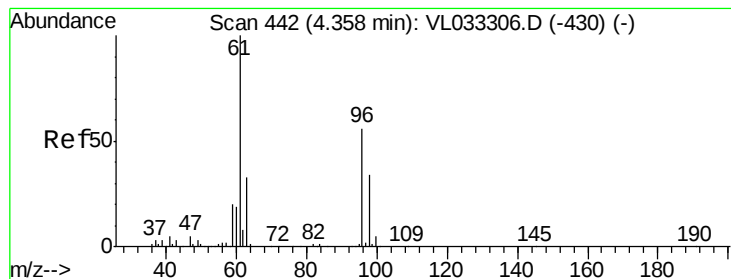
100000

0

Time-->

3.34 3.36 3.38 3.40





#17

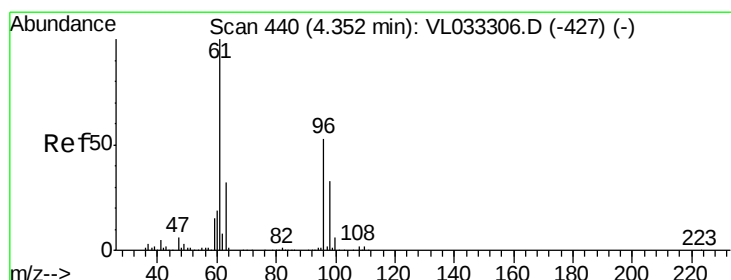
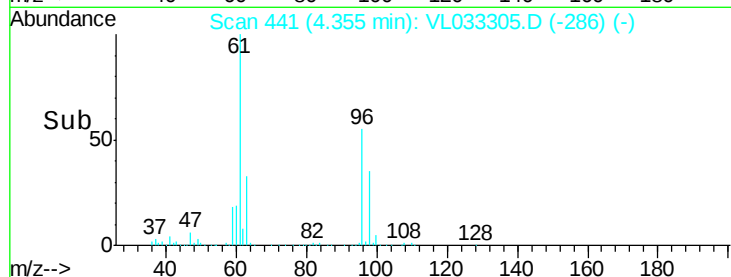
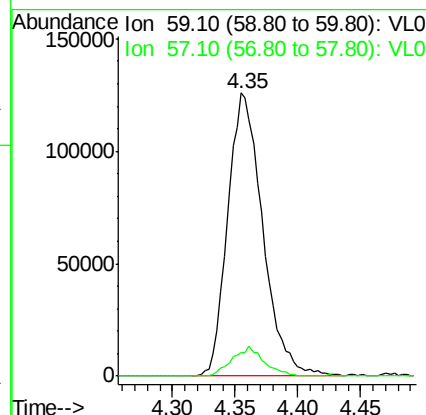
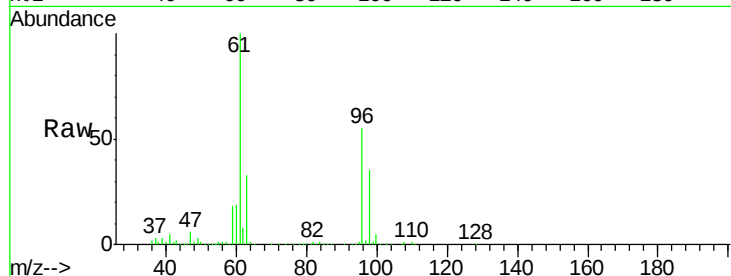
tert-Butyl alcohol
Concen: 13.045 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tgt Ion	Ratio	Resp	Lower	Upper
59	100	243860		
57	9.6	7.4	11.2	

Manual Integrations
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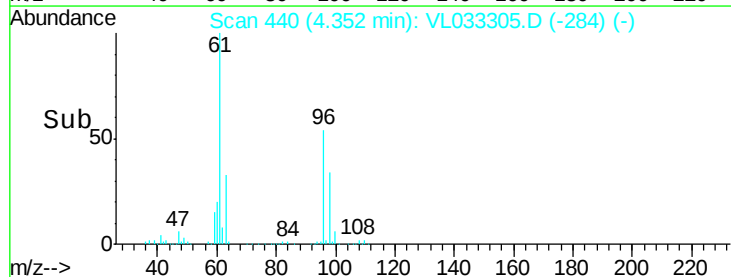
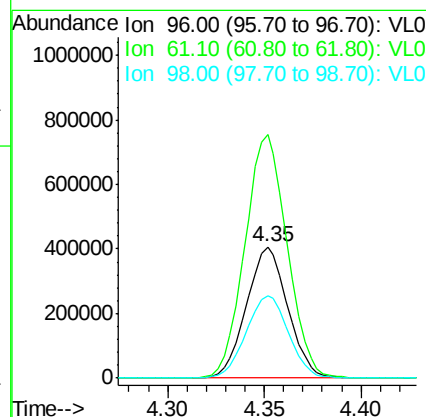
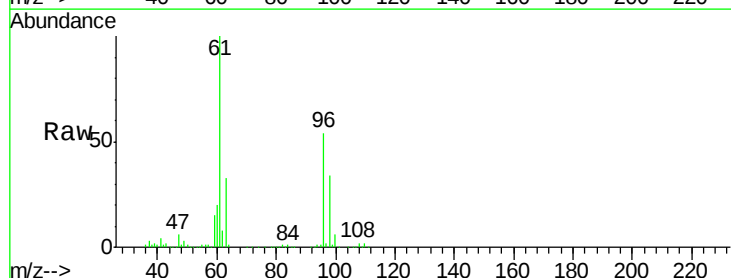
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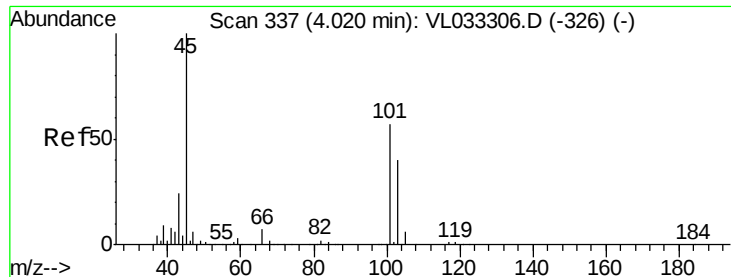


#18

1,1-Dichloroethene
Concen: 14.431 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	605139		
61	185.5	152.3	228.5	
98	63.1	48.6	72.8	





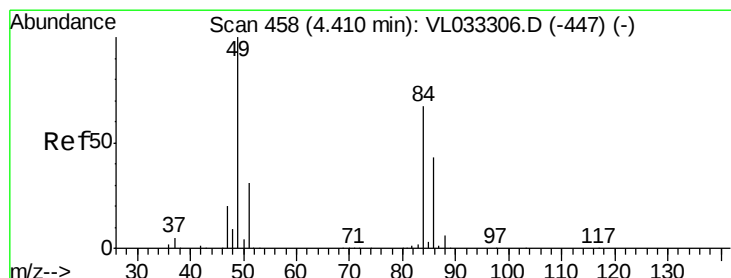
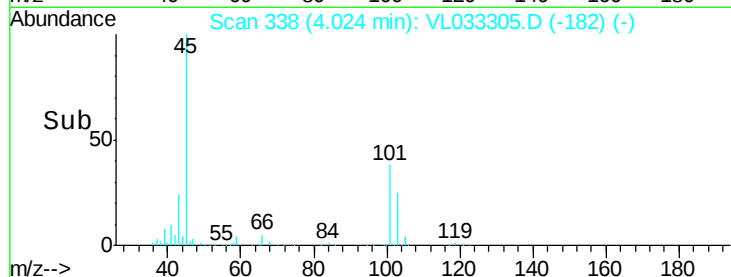
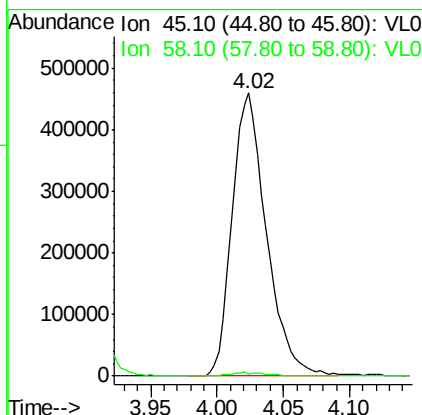
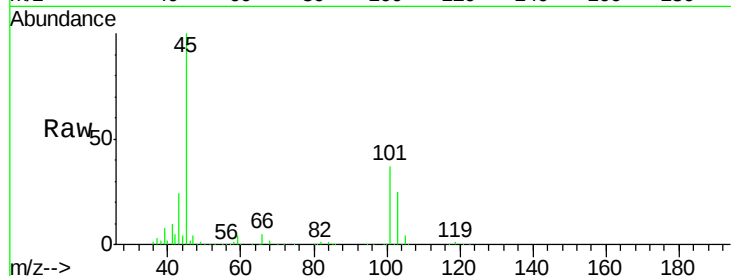
#19
Isopropyl Alcohol
Concen: 12.244 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tgt Ion: 45 Resp: 826033
Ion Ratio Lower Upper
45 100
58 1.7 1.4 2.0

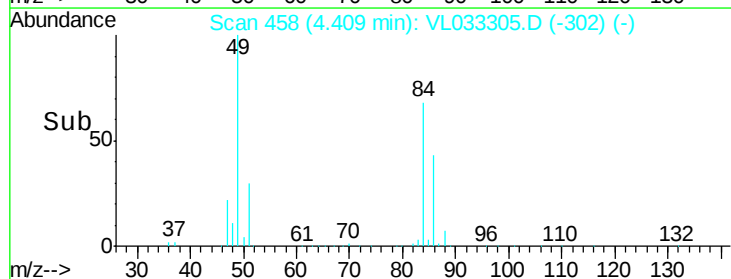
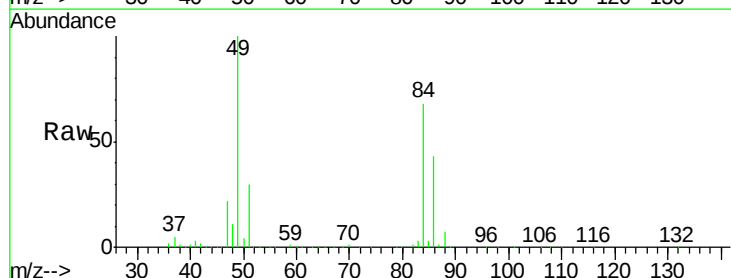
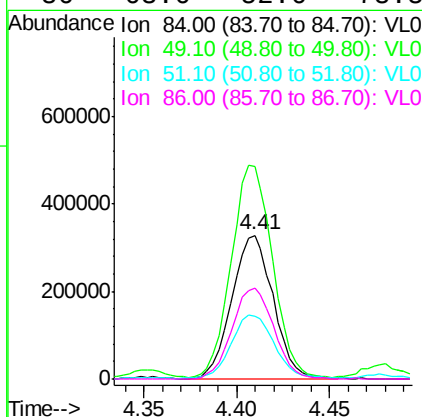
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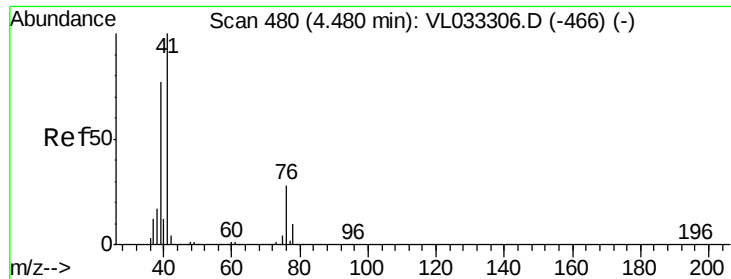
MMDadoda
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#20
Methylene Chloride
Concen: 11.863 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion: 84 Resp: 506875
Ion Ratio Lower Upper
84 100
49 147.5 115.4 173.2
51 43.7 35.7 53.5
86 63.6 52.6 78.8





#21

Allyl Chloride

Concen: 15.089 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

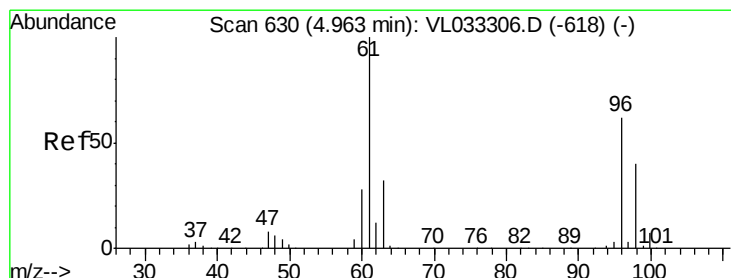
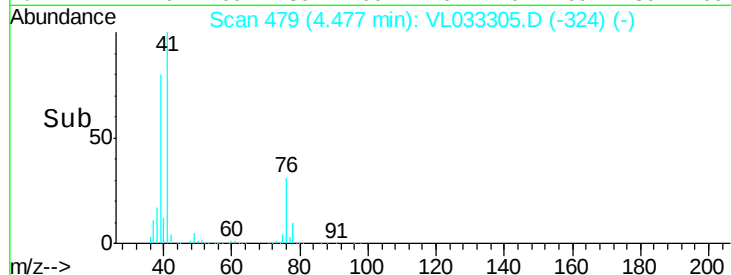
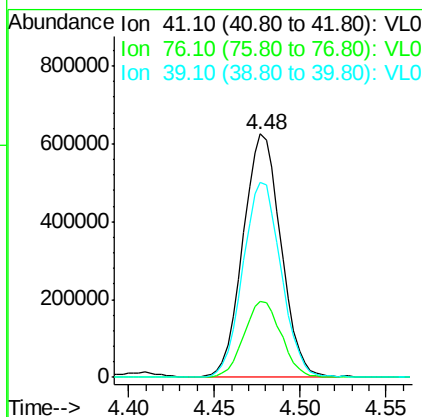
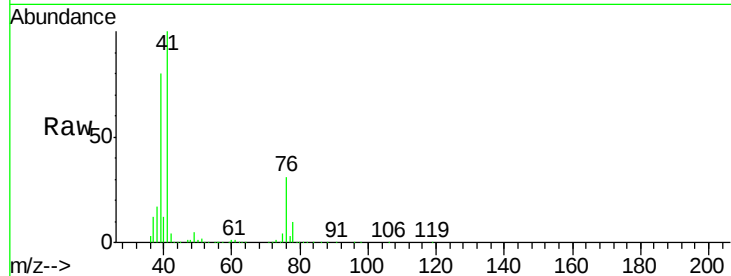
ClientSampleId :

VSTDIC015

Tgt Ion:	41	Resp:	954803
Ion Ratio		Lower	Upper
41	100		
76	31.2	24.3	36.5
39	81.2	64.4	96.6

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#22

trans-1,2-Dichloroethene

Concen: 14.460 ppbv

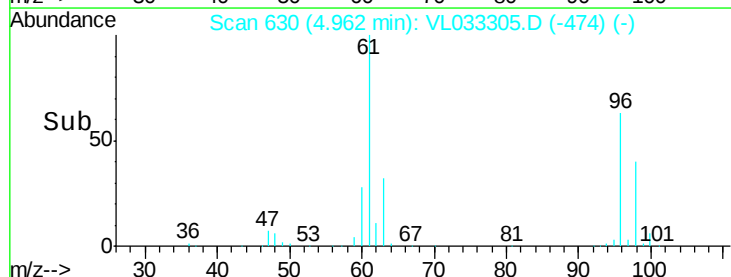
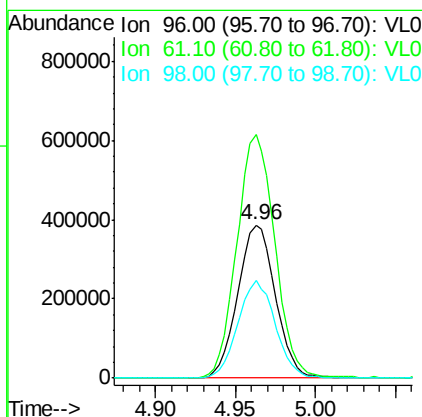
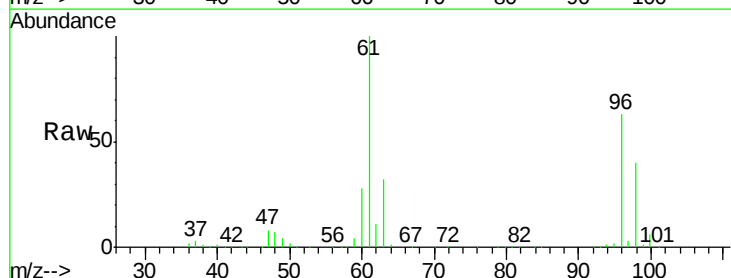
RT: 4.96 min Scan# 630

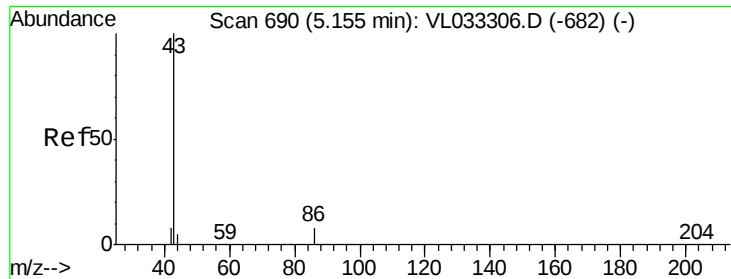
Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Tgt Ion:	96	Resp:	617242
Ion Ratio		Lower	Upper
96	100		
61	158.9	132.7	199.1
98	63.7	52.4	78.6





#23

Vinyl Acetate

Concen: 15.364 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2307718

Ion Ratio Lower Upper

43 100

86 7.7 5.8 8.8

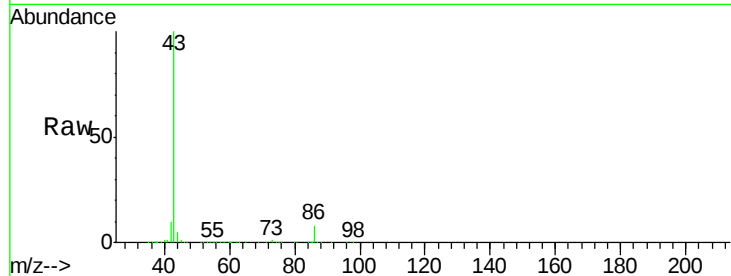
42 9.8 7.8 11.8

44 5.2 4.1 6.1

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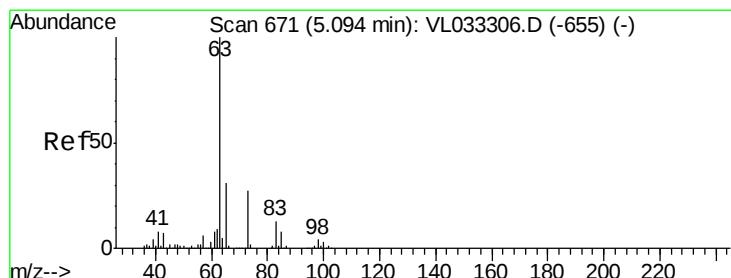
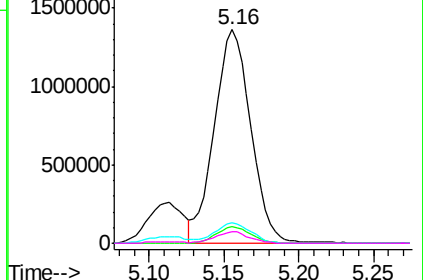
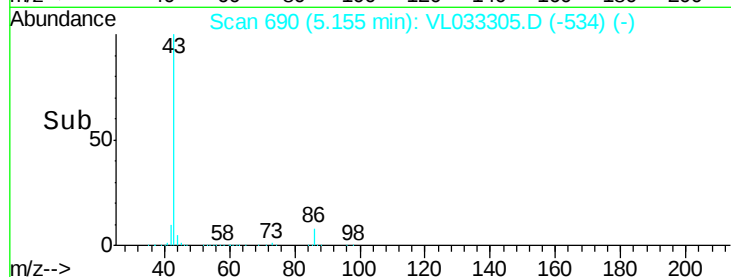


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 14.164 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

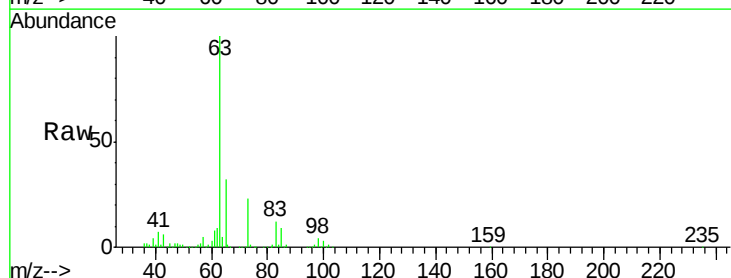
Tgt Ion: 63 Resp: 1545806

Ion Ratio Lower Upper

63 100

98 4.4 2.3 6.8

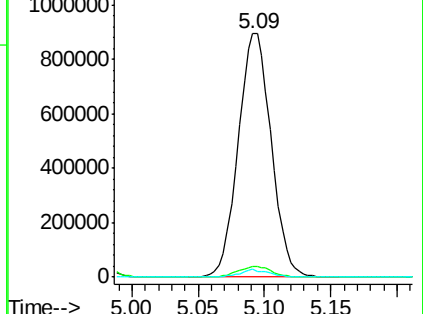
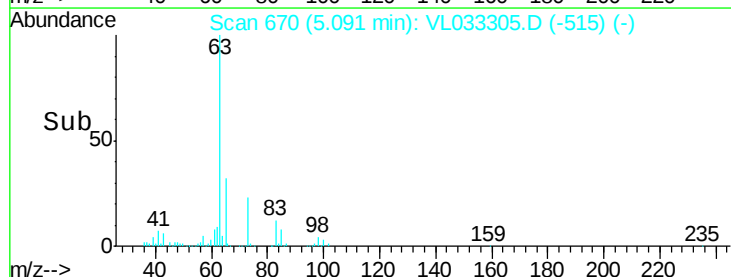
100 3.1 1.3 3.8

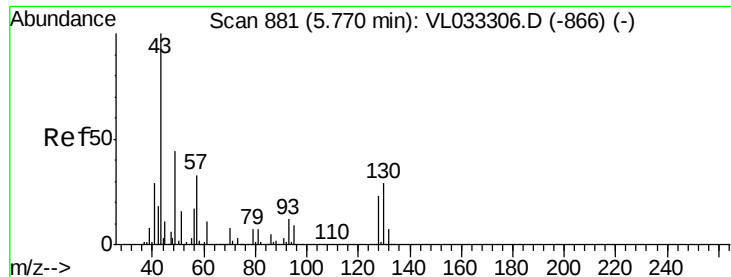


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 13.764 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2633002

Ion Ratio Lower Upper

43 100

45 9.9 8.0 12.0

61 9.7 7.5 11.3

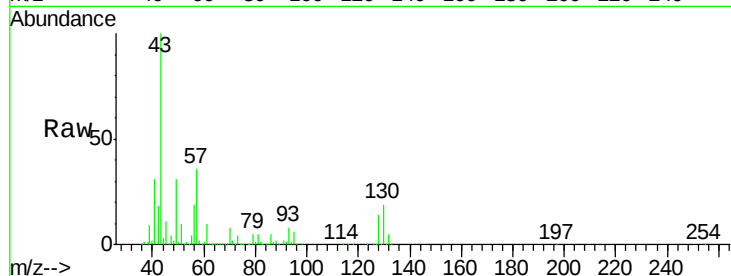
70 7.2 5.7 8.5

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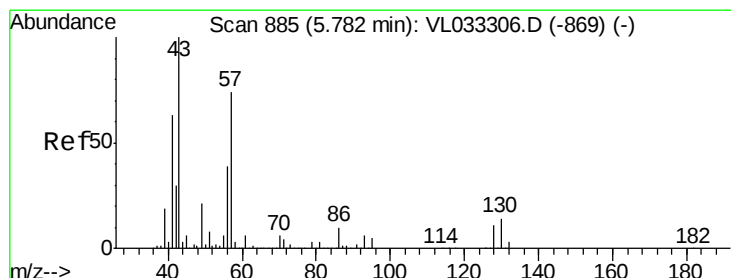
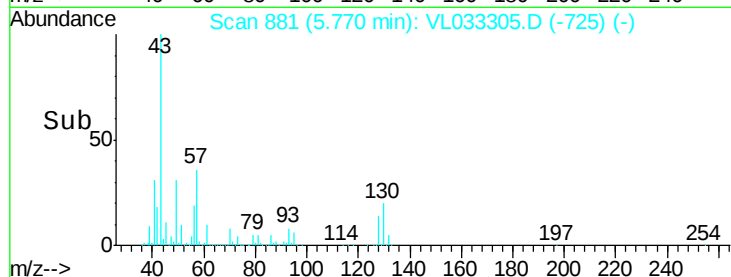
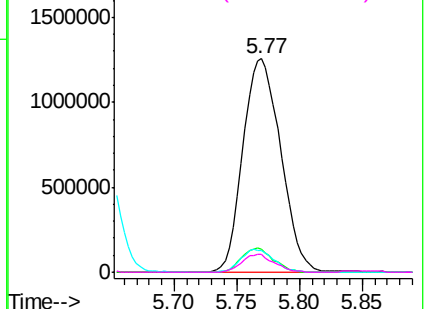
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 13.065 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Tgt Ion: 57 Resp: 1172504

Ion Ratio Lower Upper

57 100

41 87.8 71.6 107.4

43 225.6 179.2 268.8

56 52.8 42.2 63.2

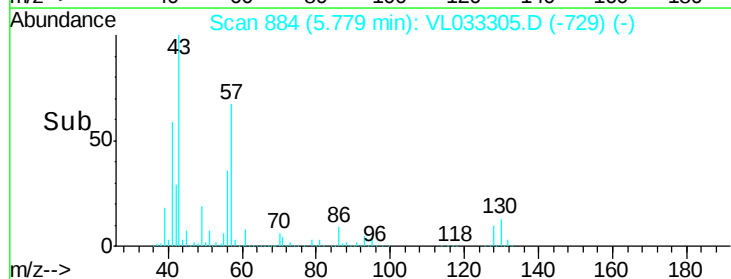
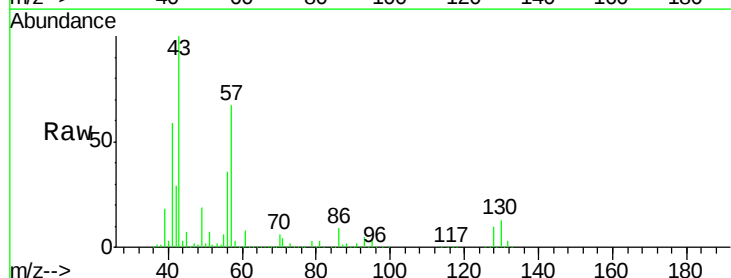
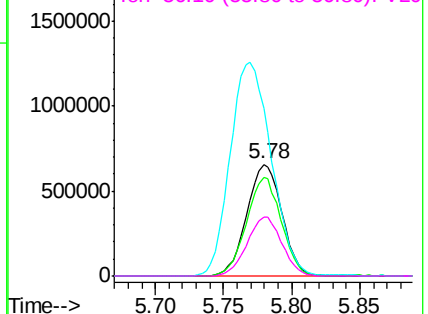
Abundance

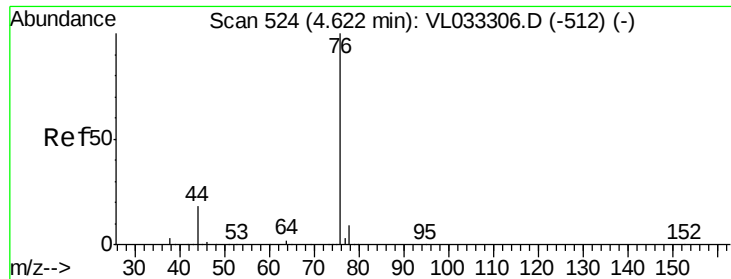
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 16.025 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 1527444

Ion Ratio Lower Upper

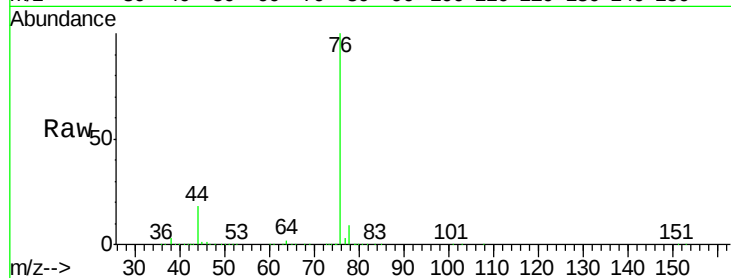
76 100

44 18.5 14.7 22.1

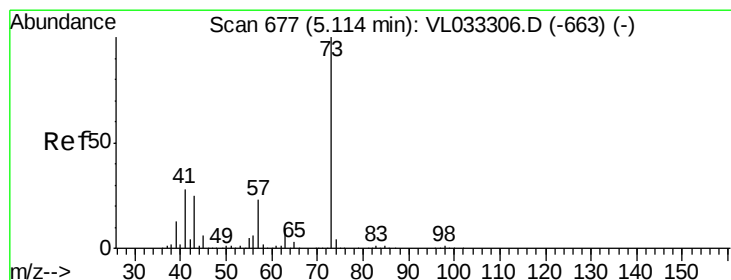
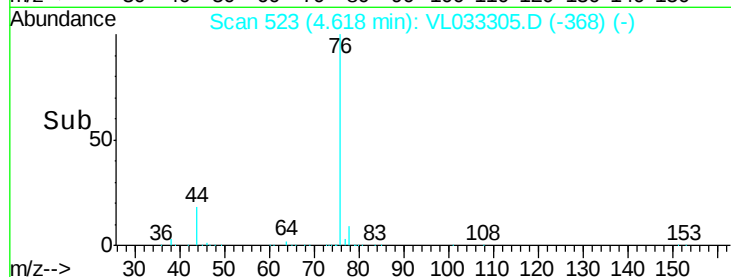
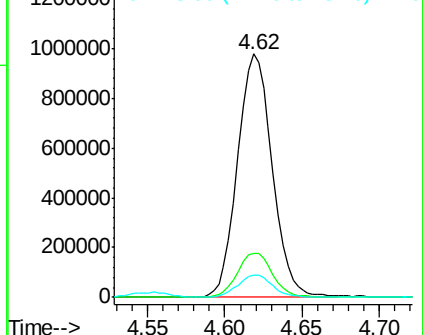
78 9.2 7.3 10.9

Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 15.061 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033305.D

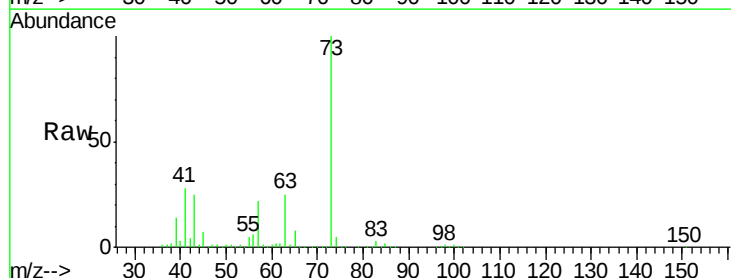
Acq: 13 Mar 2019 22:43

Tgt Ion: 73 Resp: 1890962

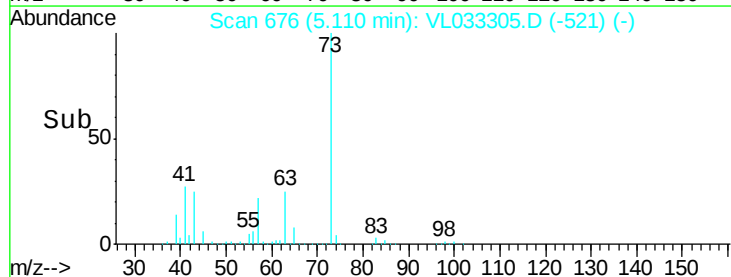
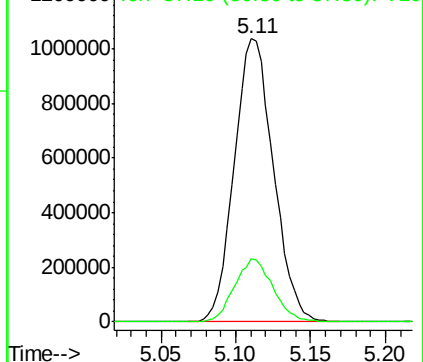
Ion Ratio Lower Upper

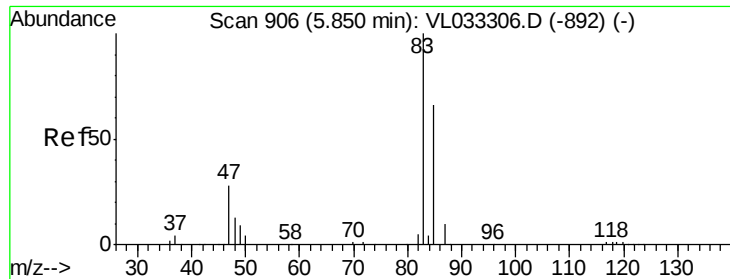
73 100

57 22.0 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





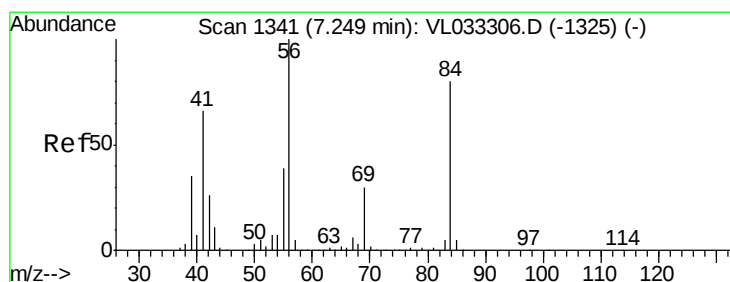
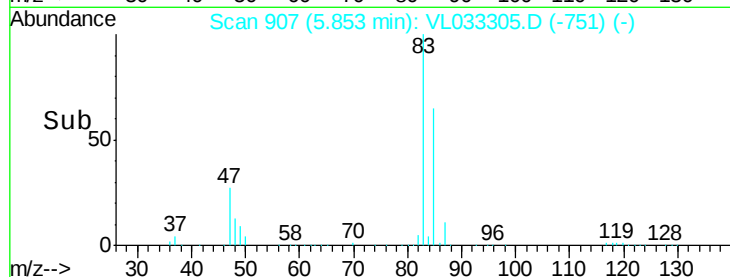
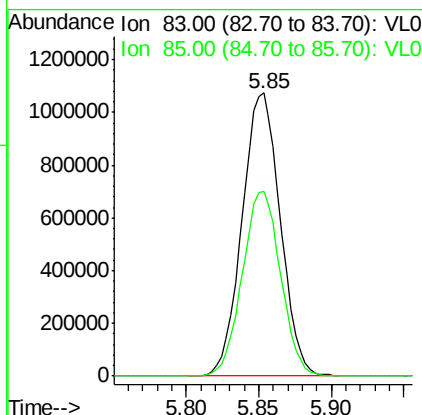
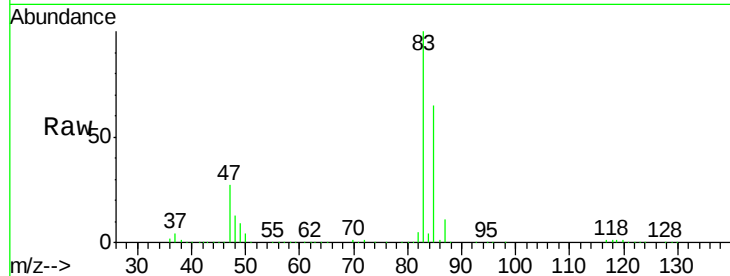
#29
Chloroform
Concen: 14.151 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 1968048
Ion Ratio Lower Upper
83 100
85 65.4 52.2 78.4

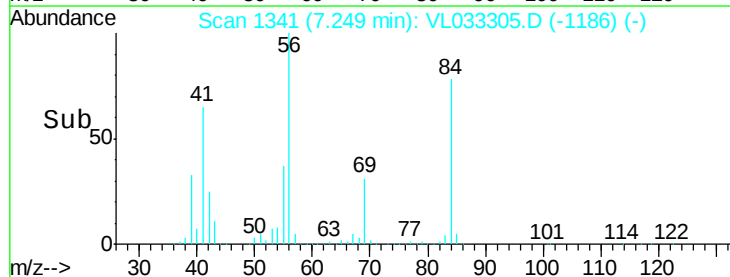
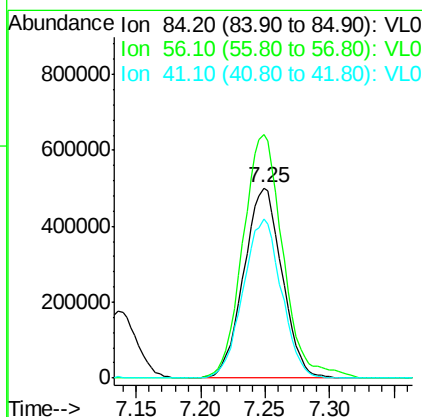
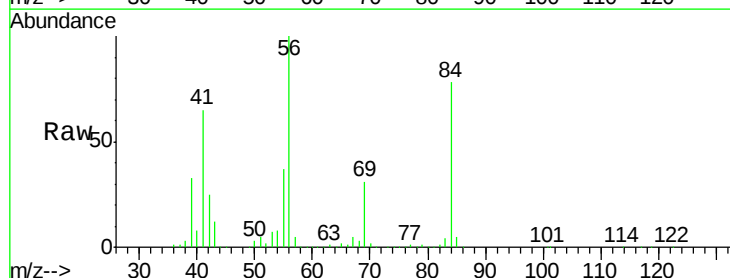
Manual Integrations
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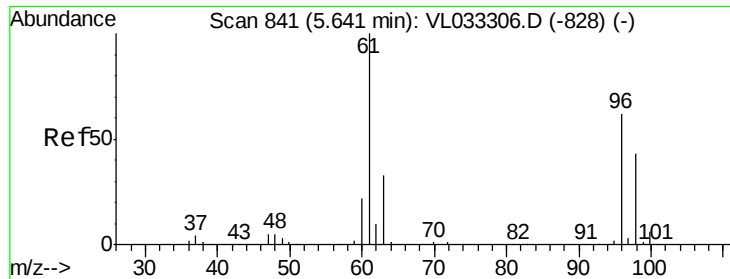
MMDadoda
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#30
Cyclohexane
Concen: 15.156 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion: 84 Resp: 1038087
Ion Ratio Lower Upper
84 100
56 134.1 109.8 164.8
41 83.6 68.1 102.1





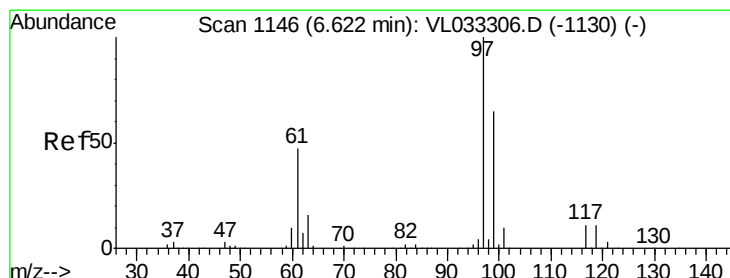
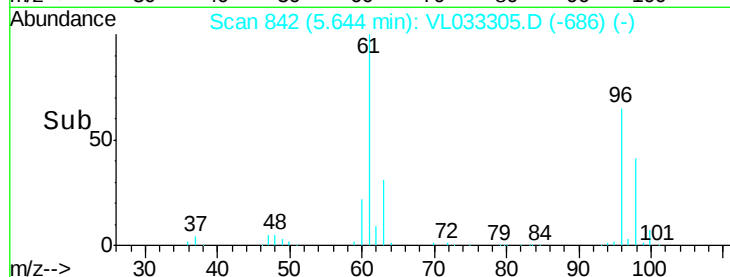
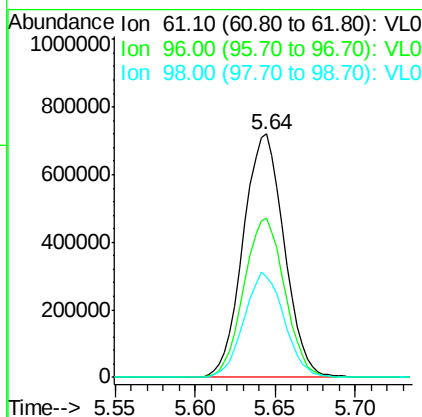
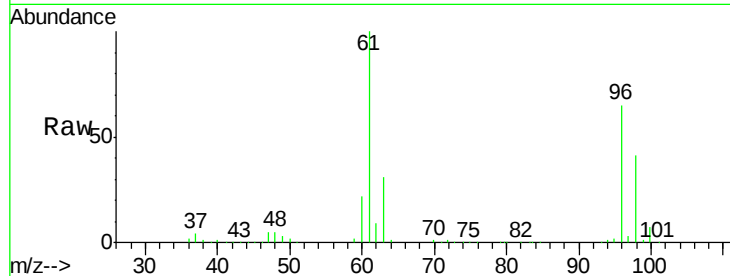
#31
 cis-1,2-Dichloroethene
 Concen: 14.783 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 61 Resp: 1258353
 Ion Ratio Lower Upper
 61 100
 96 65.3 51.8 77.6
 98 41.4 32.3 48.5

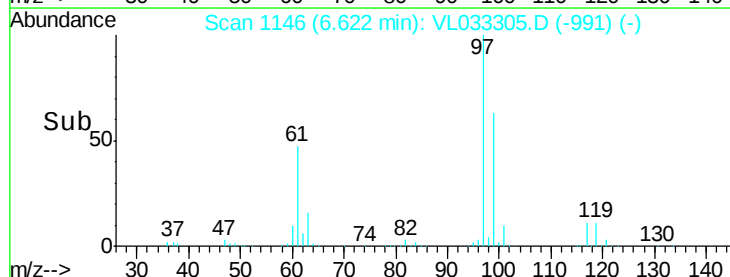
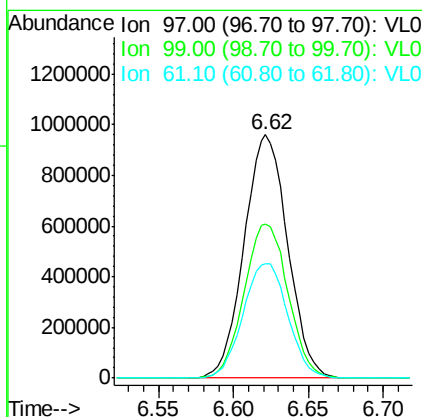
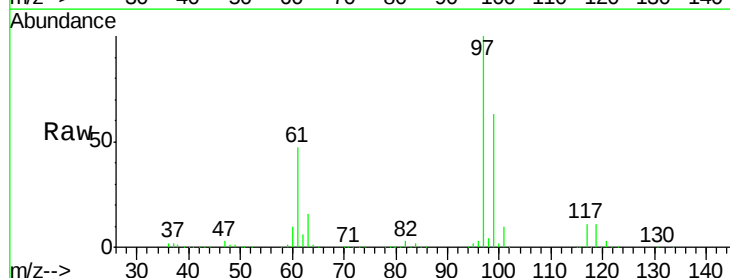
Manual Integrations
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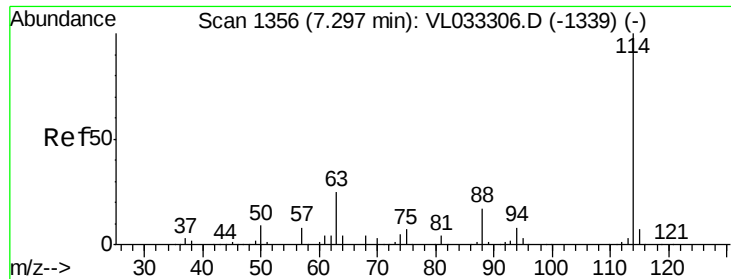
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 14.272 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 97 Resp: 1939215
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.6 77.4
 61 48.7 39.4 59.2





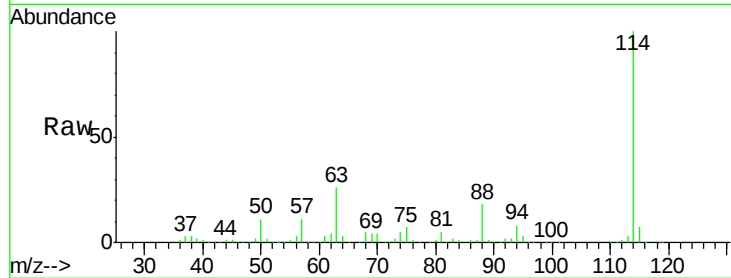
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

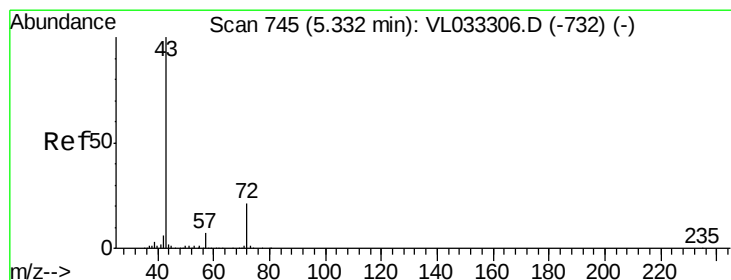
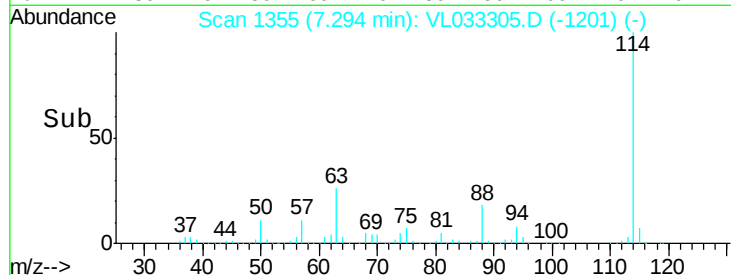
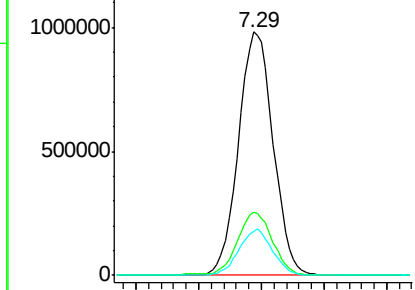
Tgt Ion: 114 Resp: 1885199
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 18.3 14.5 21.7

Manual Integrations
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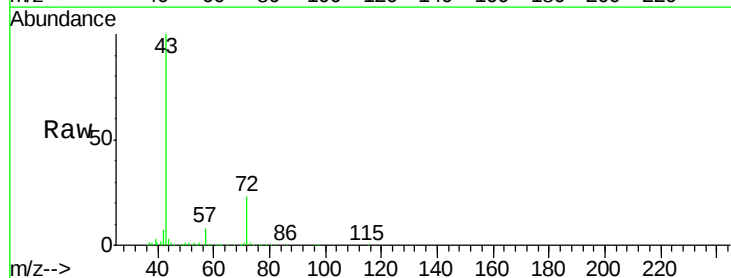


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

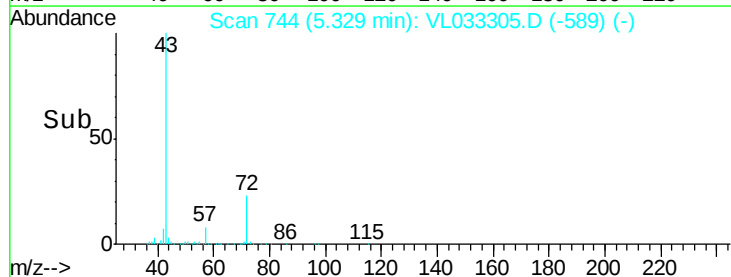
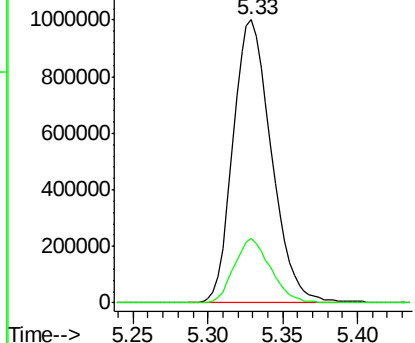


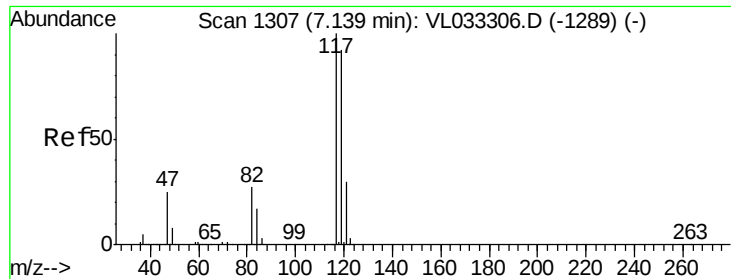
#34
 2-Butanone
 Concen: 13.852 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 43 Resp: 1780701
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 14.217 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion: 117 Resp: 2055843

Ion Ratio Lower Upper

117 100

119 96.3 75.9 113.9

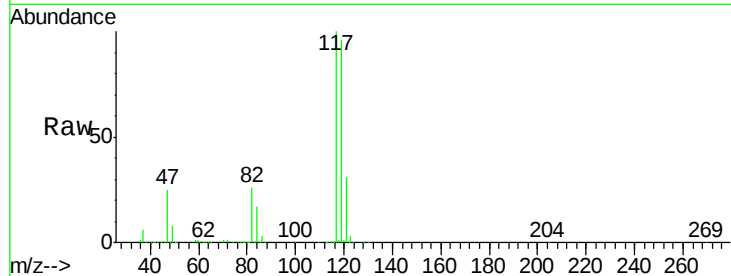
121 31.4 25.2 37.8

Manual Integrations

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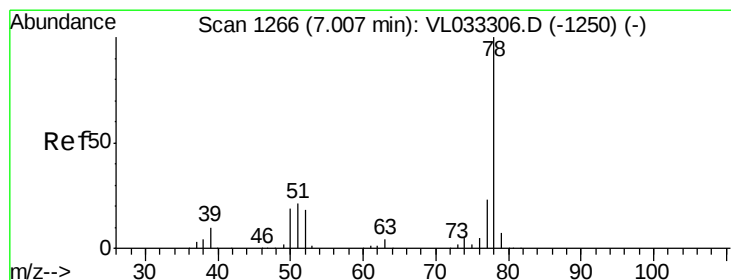
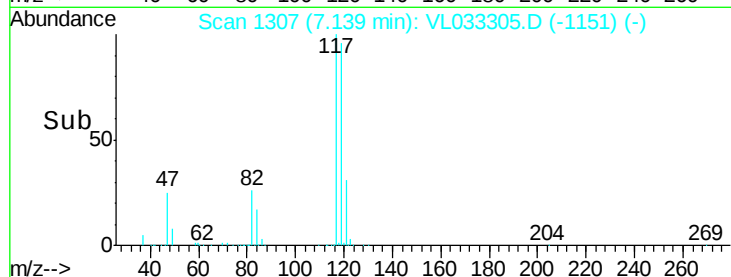
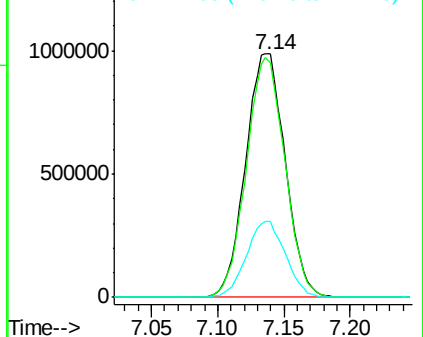
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.030 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

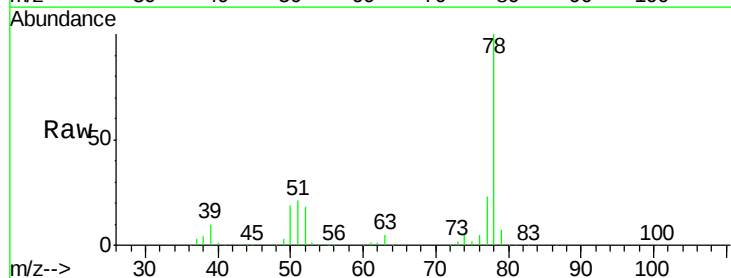
Tgt Ion: 78 Resp: 2564421

Ion Ratio Lower Upper

78 100

77 23.1 18.6 28.0

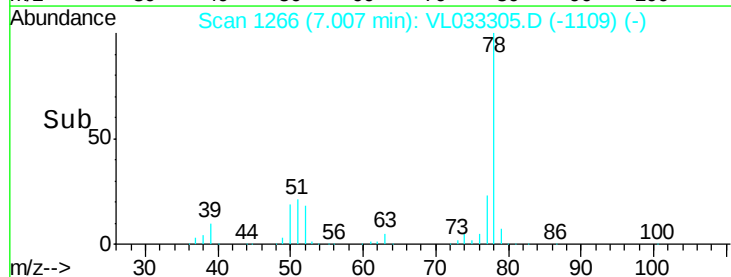
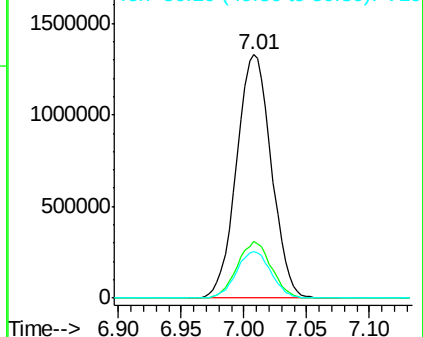
50 19.1 15.2 22.8

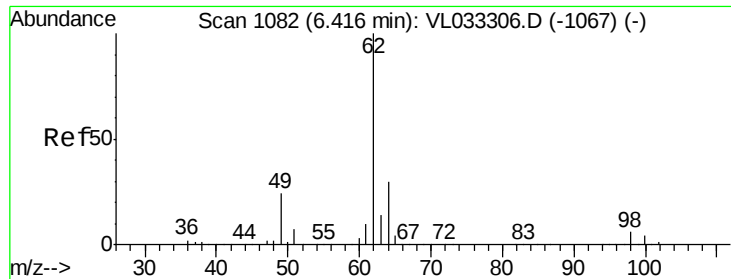


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





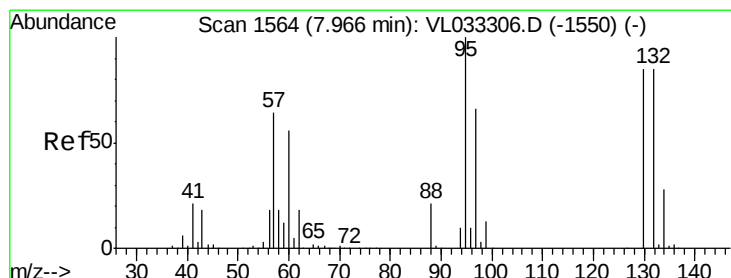
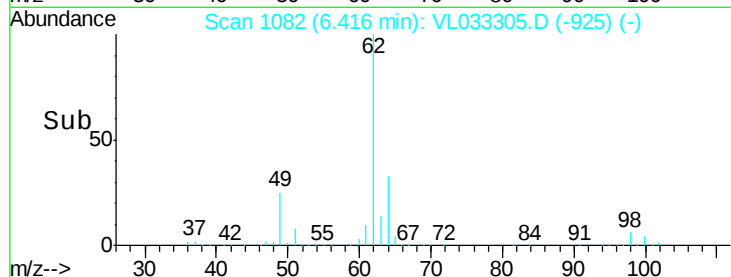
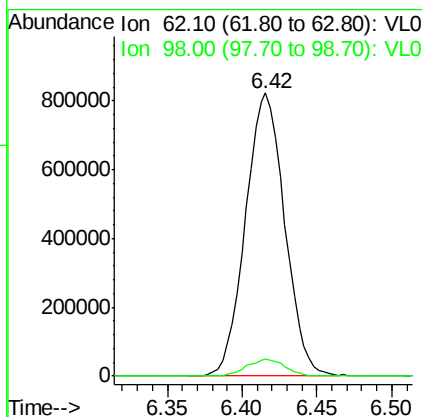
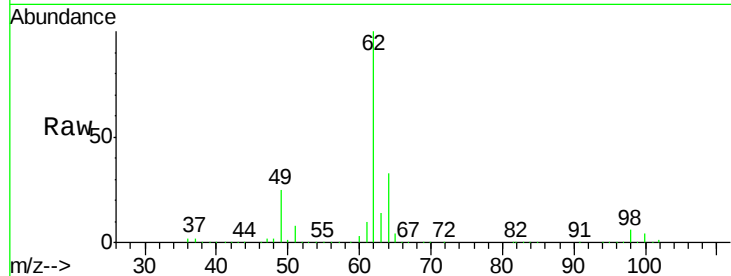
#37
 1,2-Dichloroethane
 Concen: 13.463 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 1502198
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.4 6.6

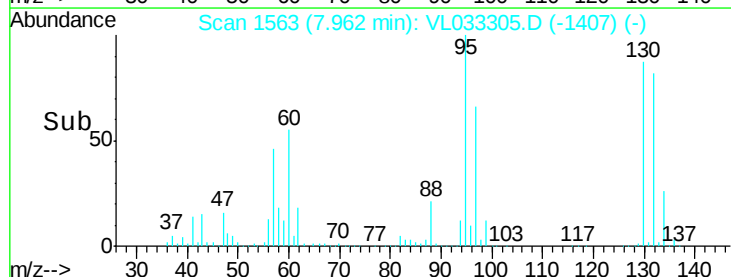
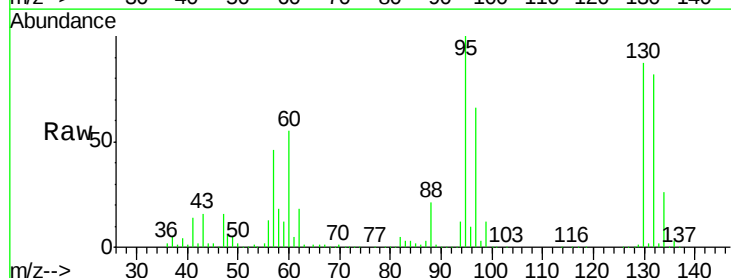
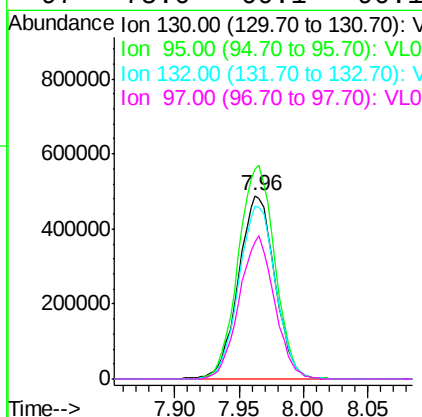
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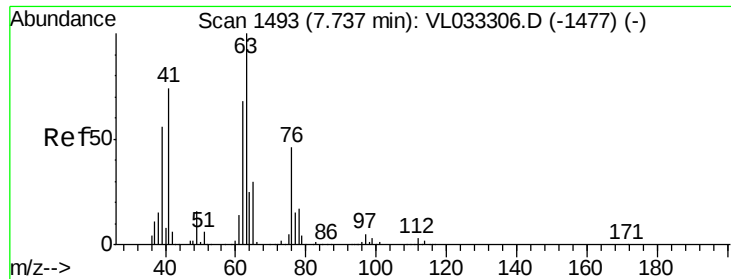
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#38
 Trichloroethene
 Concen: 13.048 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 130 Resp: 953884
 Ion Ratio Lower Upper
 130 100
 95 114.4 95.2 142.8
 132 94.2 72.5 108.7
 97 75.0 60.1 90.1





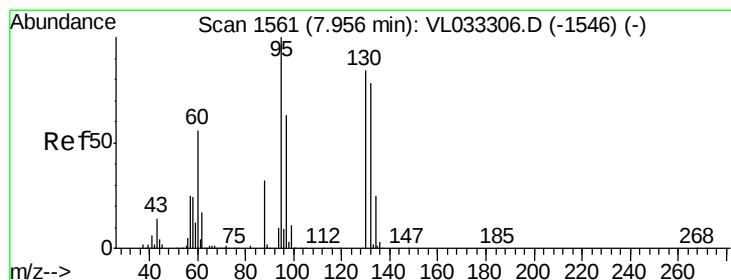
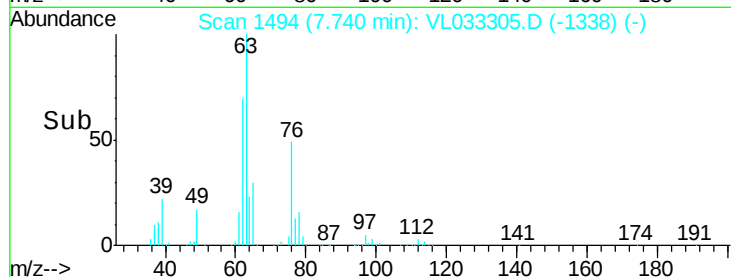
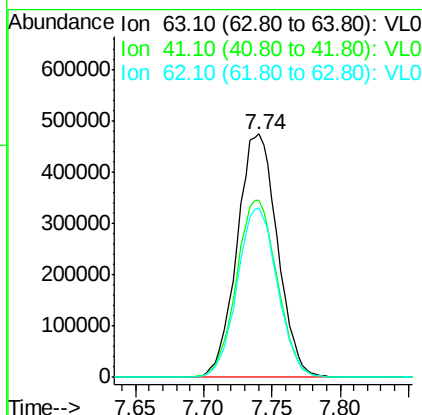
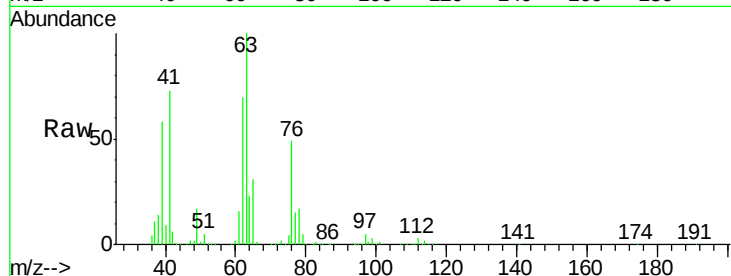
#39
 1,2-Dichloropropane
 Concen: 13.845 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
63	100		
41	72.8	59.0	88.4
62	69.6	53.0	79.4

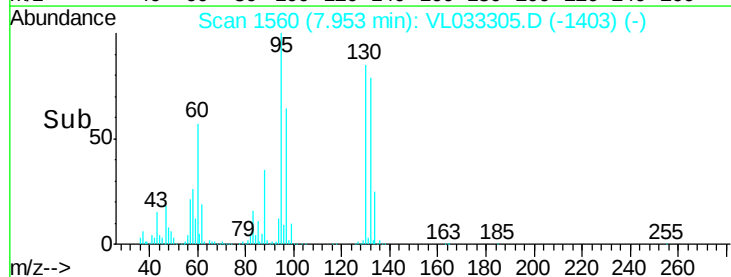
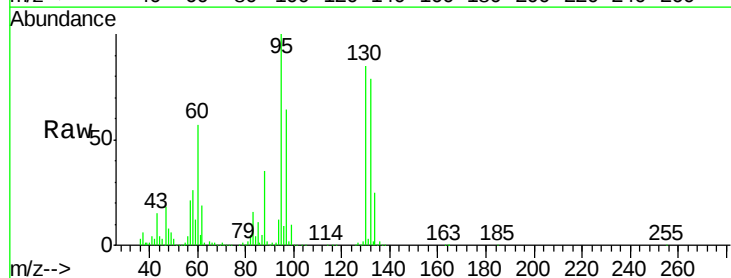
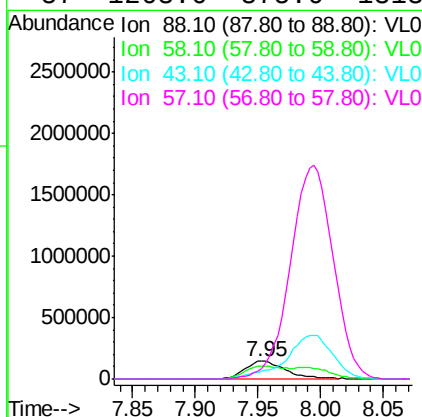
Manual Integrations
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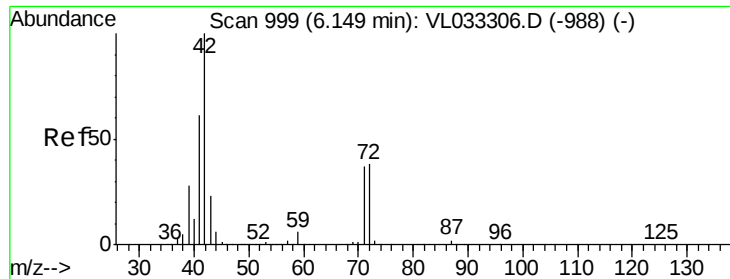
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#40
 1,4-Dioxane
 Concen: 12.234 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.3	97.7	146.5
43	281.3	199.4	299.2
57	1263.6	875.6	1313.4





#41

Tetrahydrofuran

Concen: 14.308 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 42 Resp: 1027339

Ion Ratio Lower Upper

42 100

72 39.3 30.8 46.2

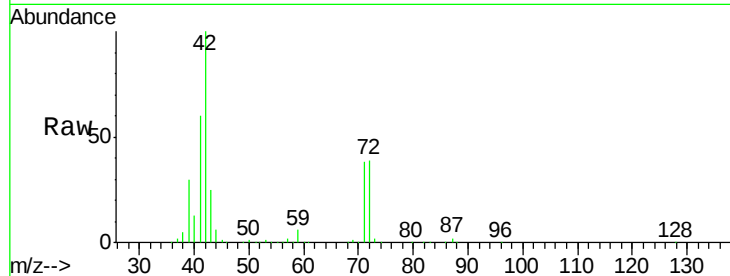
71 38.2 30.0 45.0

Manual Integrations

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MMDadoda

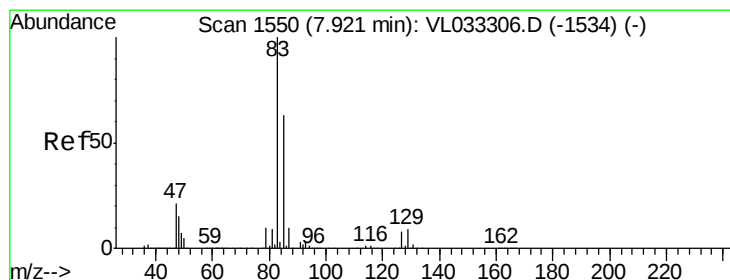
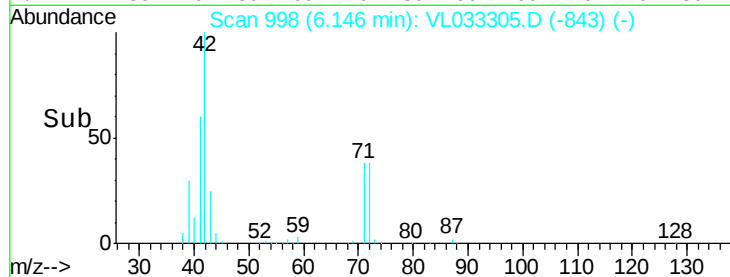
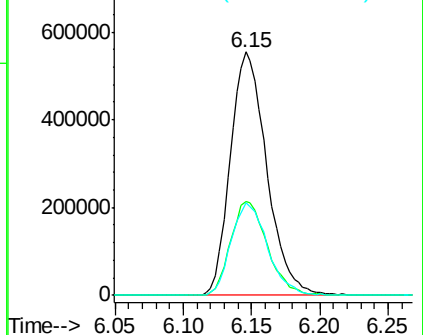
3/15/2019 10:41:52 PM



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.153 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

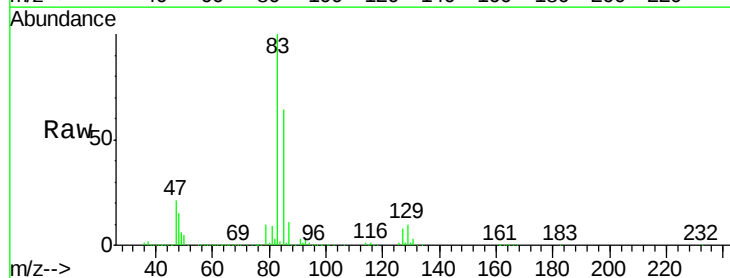
Tgt Ion: 83 Resp: 2187659

Ion Ratio Lower Upper

83 100

85 64.3 51.0 76.4

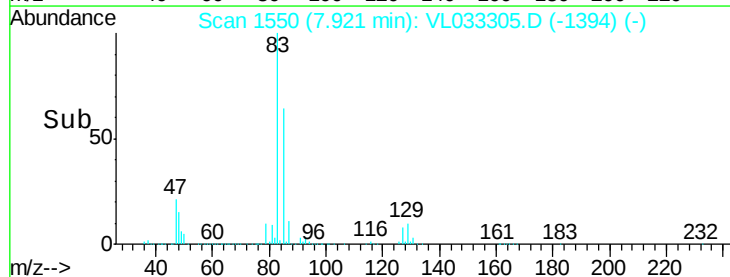
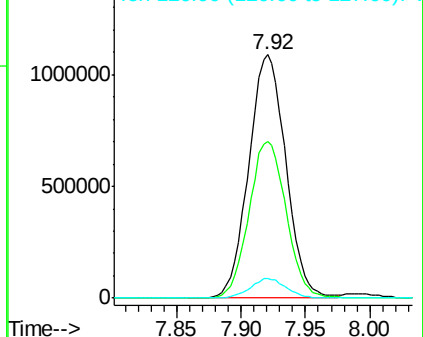
127 8.0 6.6 10.0

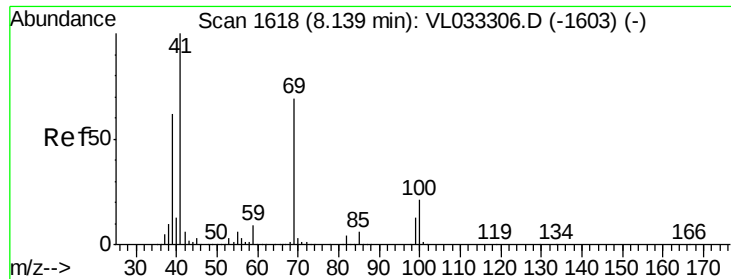


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





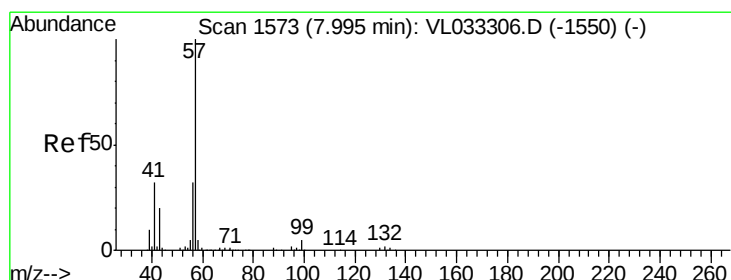
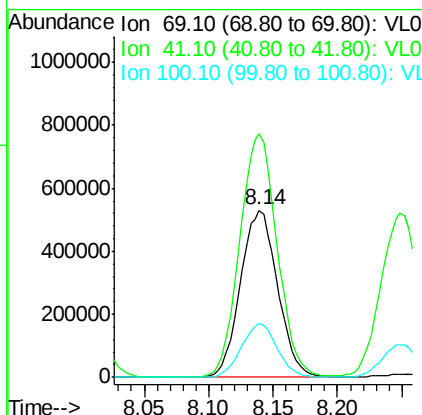
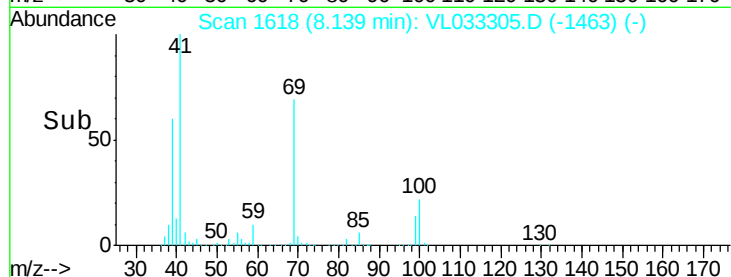
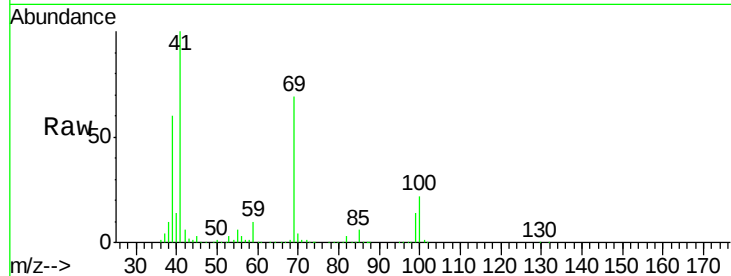
#43
Methyl Methacrylate
Concen: 14.561 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 69 Resp: 1063296
Ion Ratio Lower Upper
69 100
41 145.9 117.0 175.4
100 31.2 24.3 36.5

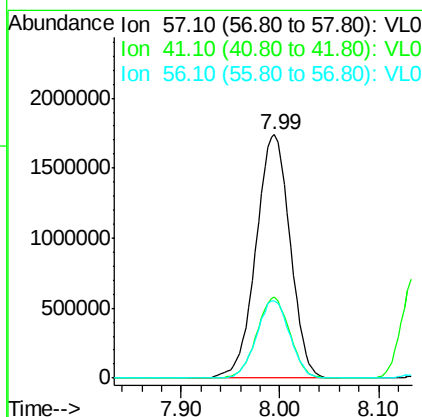
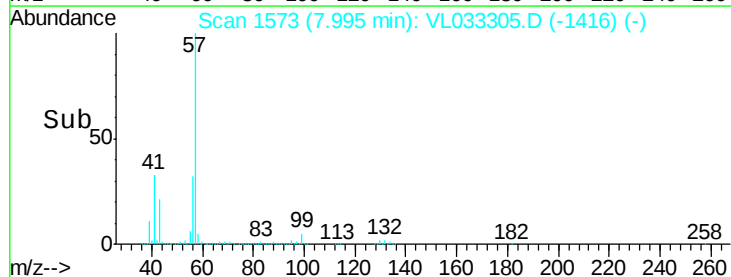
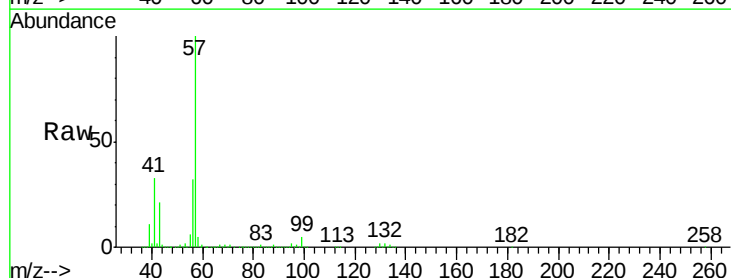
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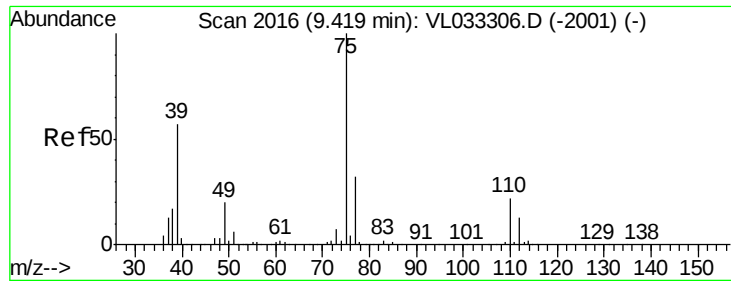
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 13.106 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion: 57 Resp: 4147826
Ion Ratio Lower Upper
57 100
41 32.1 25.9 38.9
56 31.0 24.6 36.8





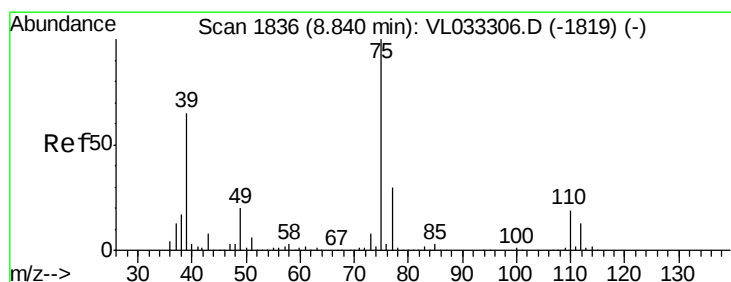
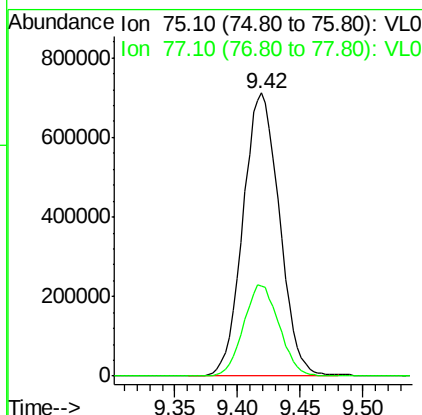
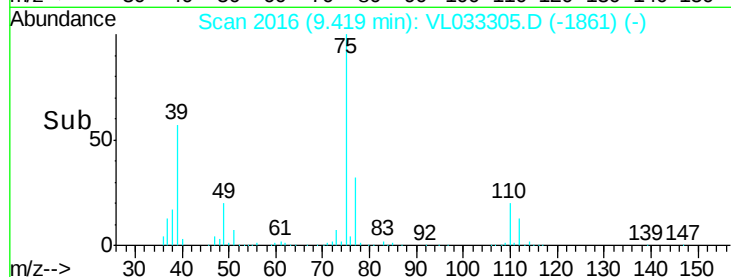
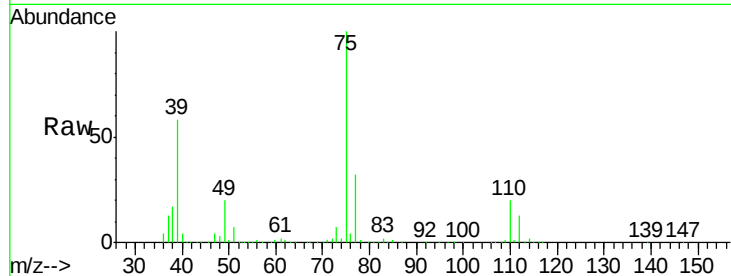
#45
 t-1,3-Dichloropropene
 Concen: 16.891 ppbv
 RT: 9.42 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 75 Resp: 1438058
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.3 37.9

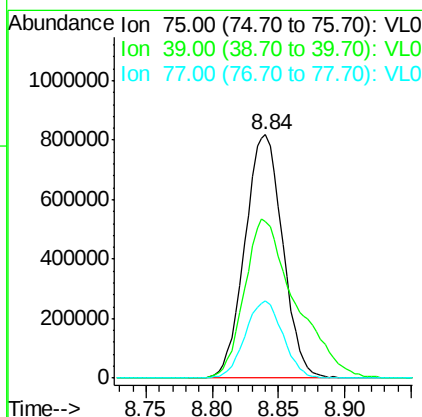
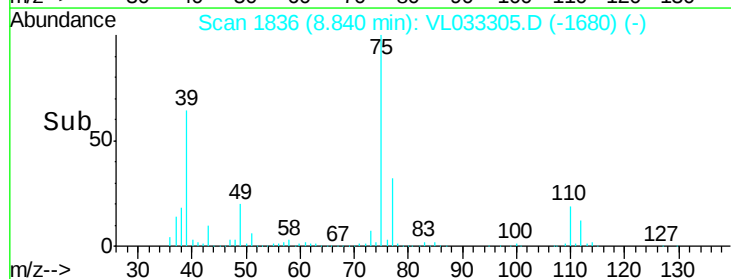
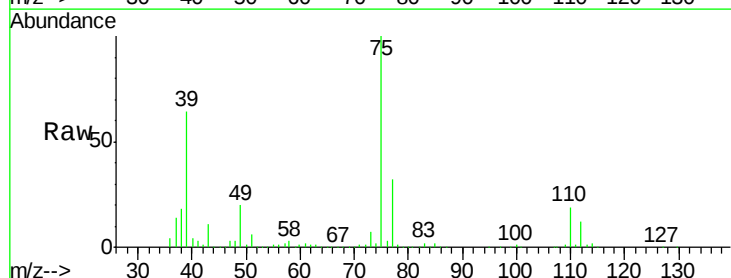
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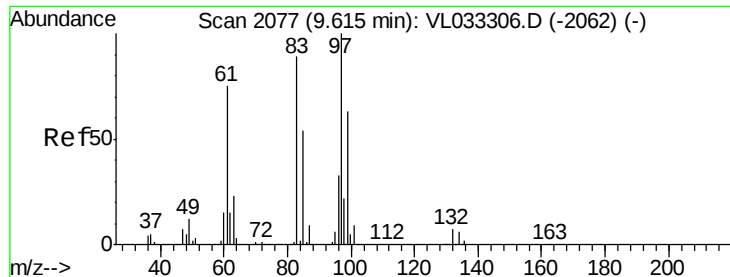
MMDadoda
 3/15/2019 10:41:52 PM



#46
 cis-1,3-Dichloropropene
 Concen: 15.700 ppbv
 RT: 8.84 min Scan# 1836
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 75 Resp: 1619714
 Ion Ratio Lower Upper
 75 100
 39 64.3 53.4 80.2
 77 31.5 23.7 35.5





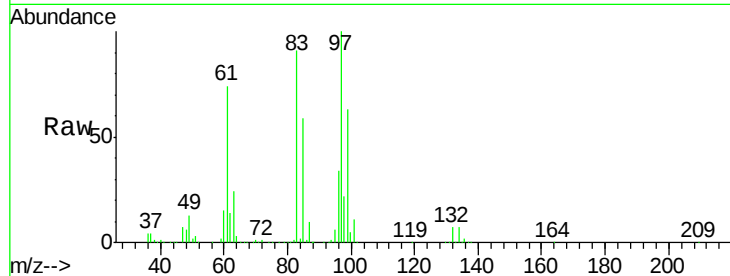
#47
 1,1,2-Trichloroethane
 Concen: 13.874 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

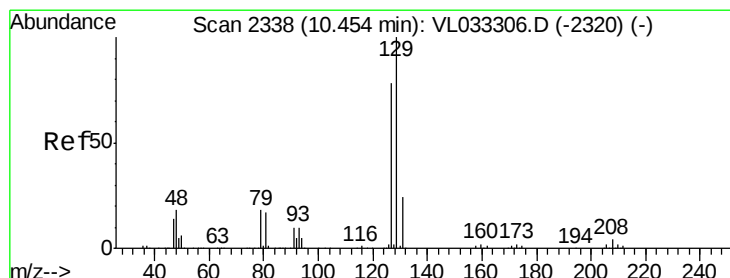
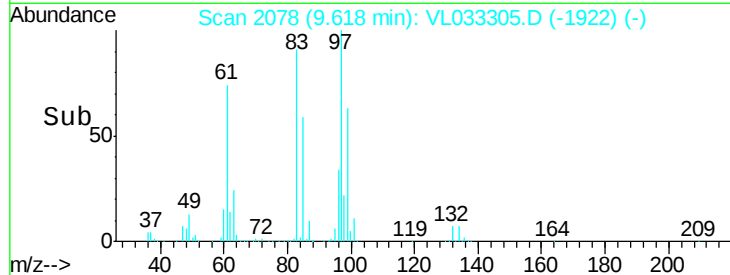
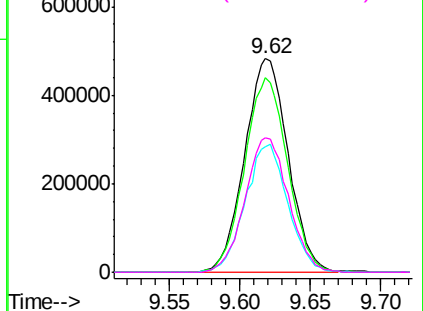
Tgt Ion: 97 Resp: 1039006
 Ion Ratio Lower Upper
 97 100
 83 91.3 72.7 109.1
 85 58.6 45.6 68.4
 99 62.8 48.5 72.7

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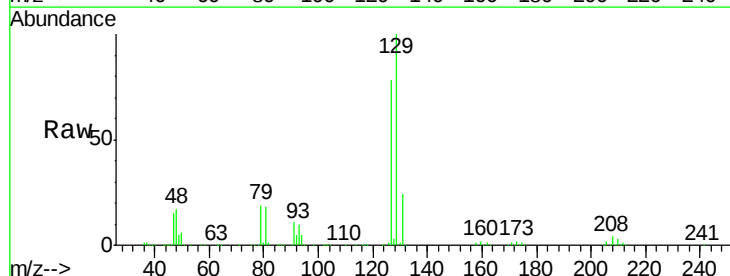


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

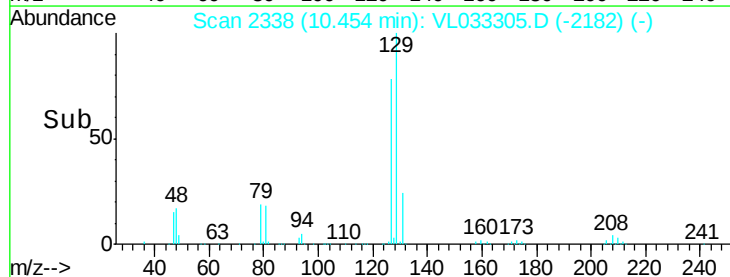
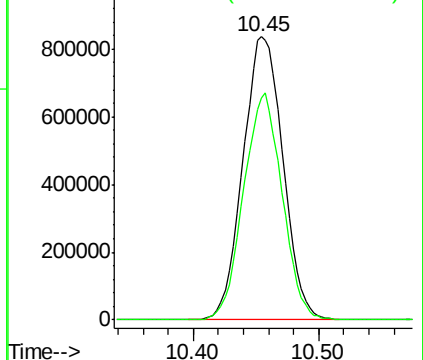


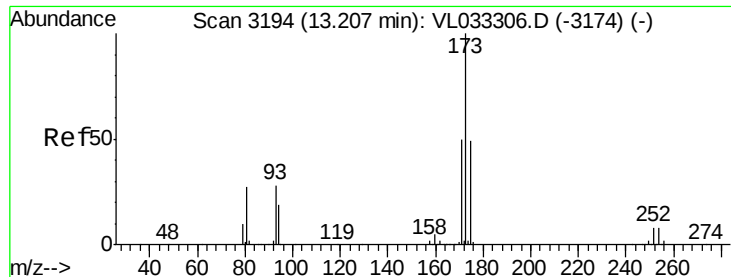
#48
 Dibromochloromethane
 Concen: 14.715 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 129 Resp: 1860067
 Ion Ratio Lower Upper
 129 100
 127 77.3 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: 17.223 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.01 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 1801803

Ion Ratio Lower Upper

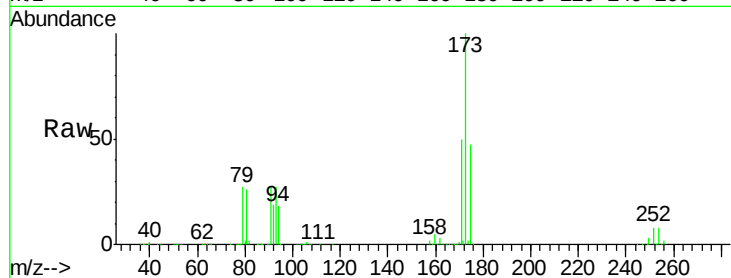
173 100

175 49.2 38.6 58.0

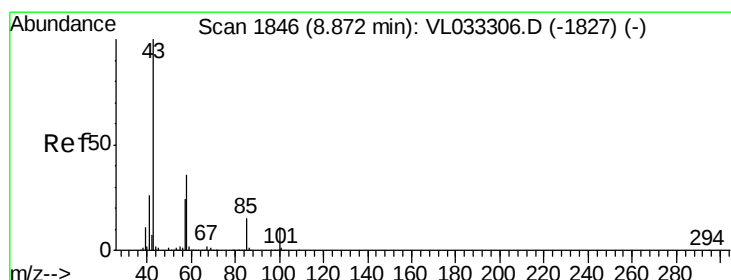
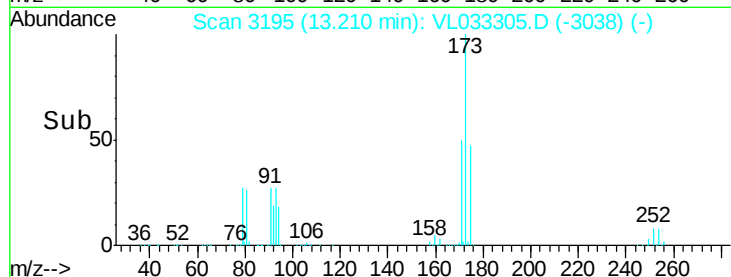
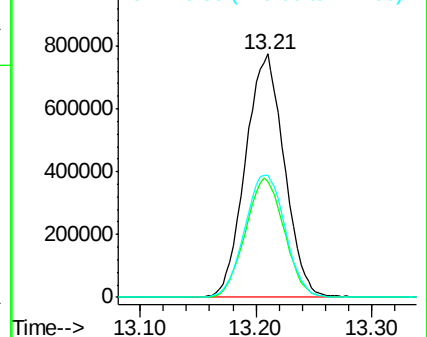
171 52.6 42.0 63.0

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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: 13.801 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033305.D

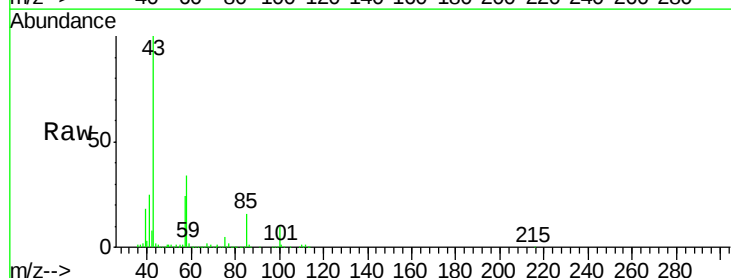
Acq: 13 Mar 2019 22:43

Tgt Ion: 43 Resp: 2595647

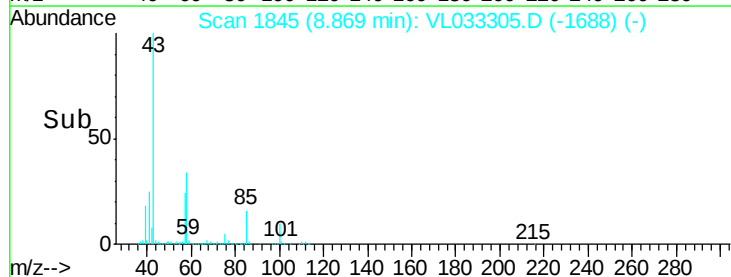
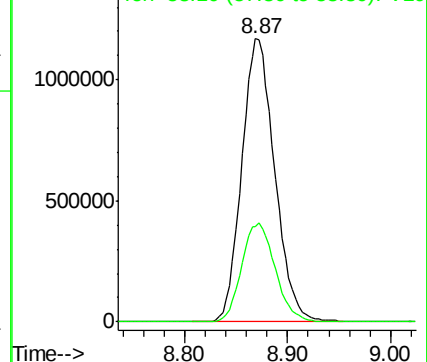
Ion Ratio Lower Upper

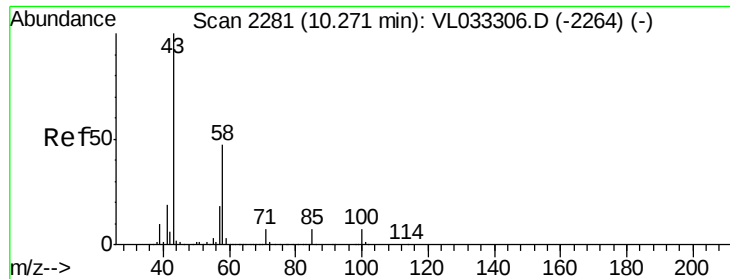
43 100

58 35.6 28.2 42.2



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





#51

2-Hexanone

Concen: 14.448 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2066894

Ion Ratio Lower Upper

43 100

58 47.8 38.4 57.6

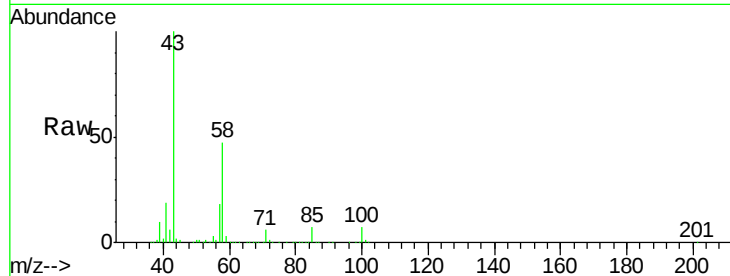
98 0.1 0.2 0.2#

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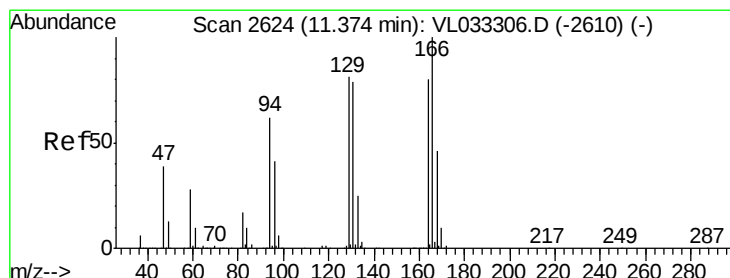
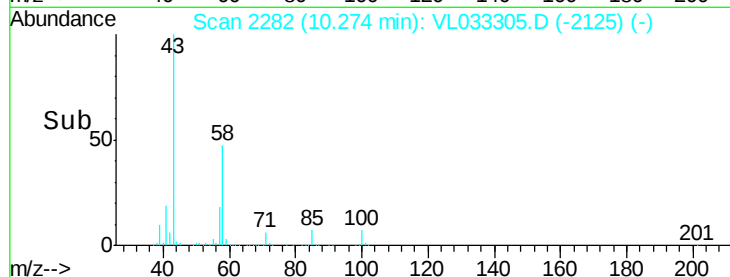
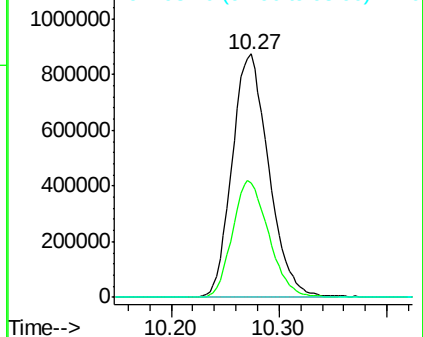


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 12.002 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Tgt Ion: 164 Resp: 920842

Ion Ratio Lower Upper

164 100

166 123.7 103.2 154.8

129 103.2 85.8 128.8

131 98.2 83.6 125.4

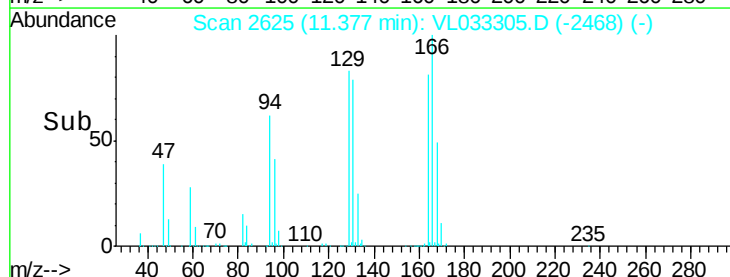
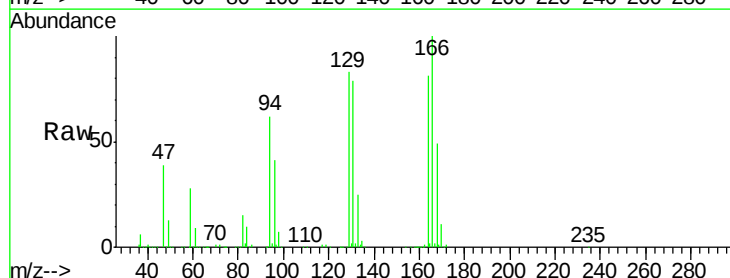
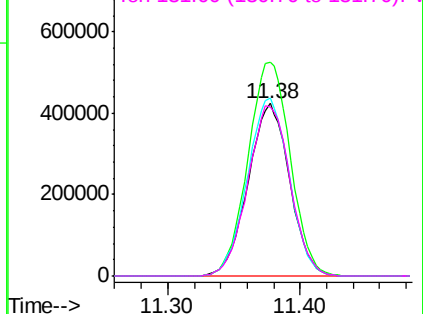
Abundance

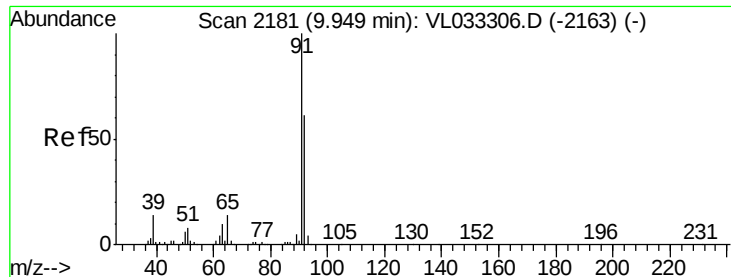
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.370 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 3006975

Ion Ratio Lower Upper

91 100

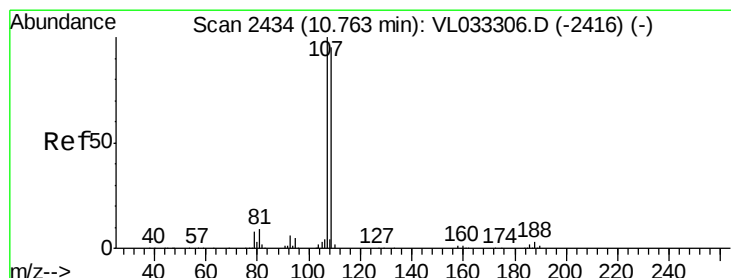
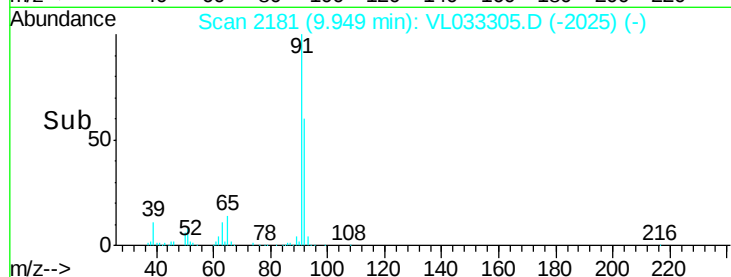
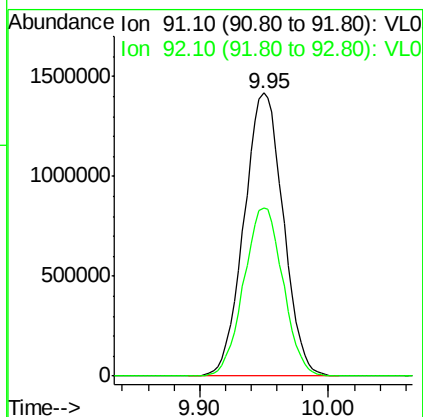
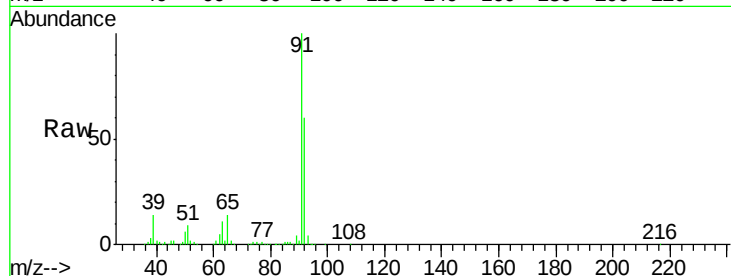
92 59.4 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 13.290 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033305.D

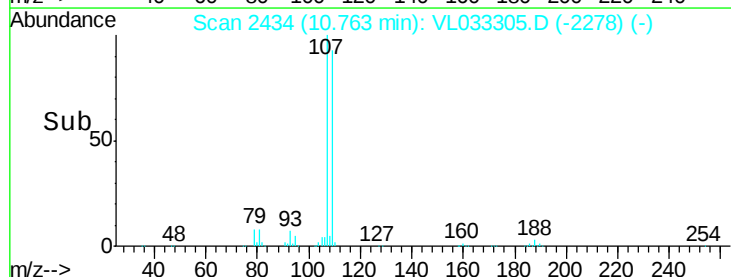
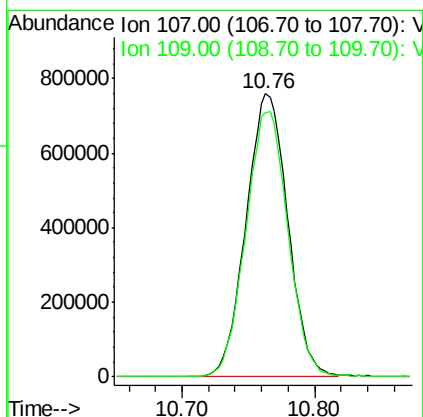
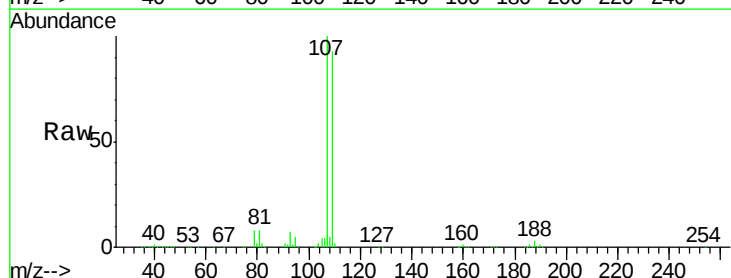
Acq: 13 Mar 2019 22:43

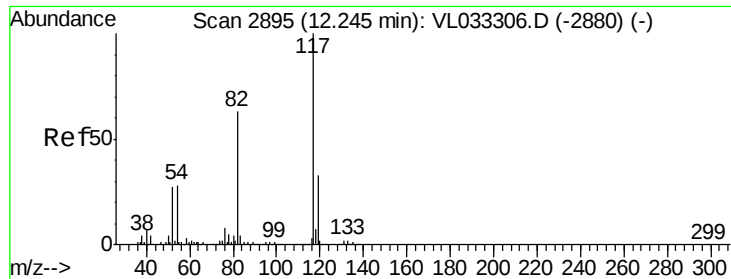
Tgt Ion: 107 Resp: 1664694

Ion Ratio Lower Upper

107 100

109 93.5 74.3 111.5





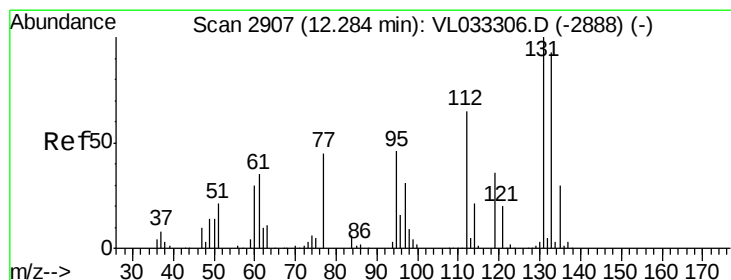
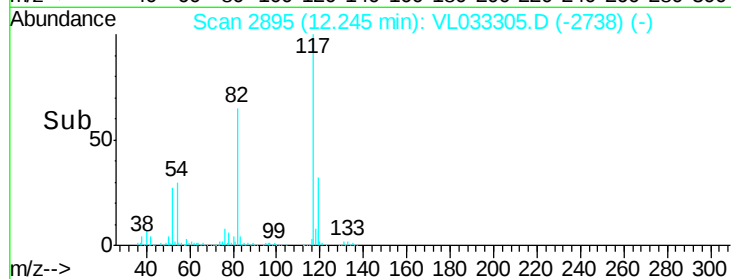
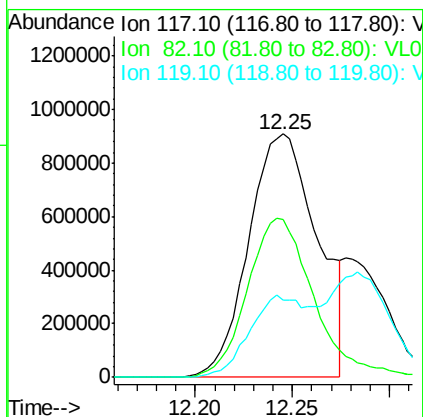
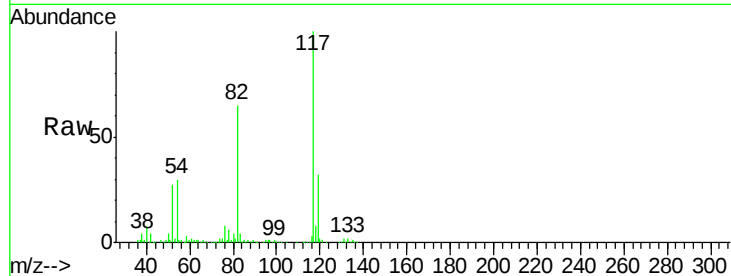
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 2229565
Ion Ratio Lower Upper
117 100
82 63.5 51.3 76.9
119 0.0 27.0 40.4#

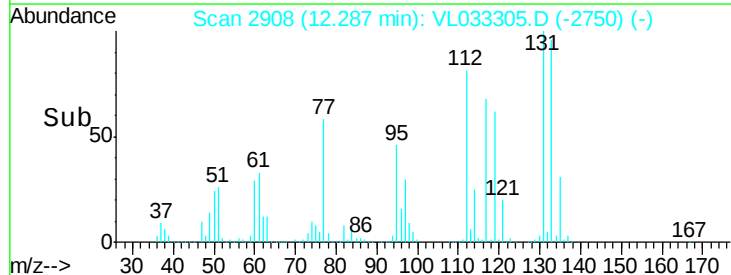
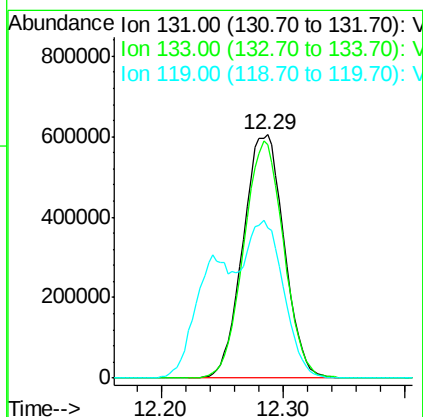
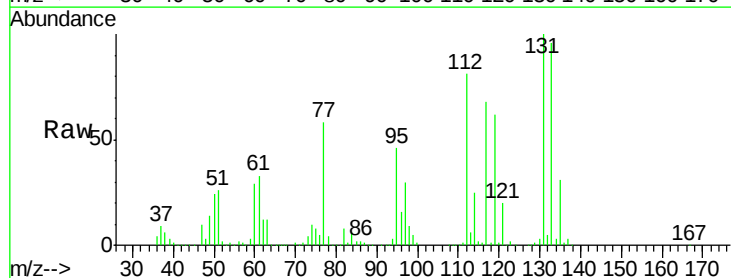
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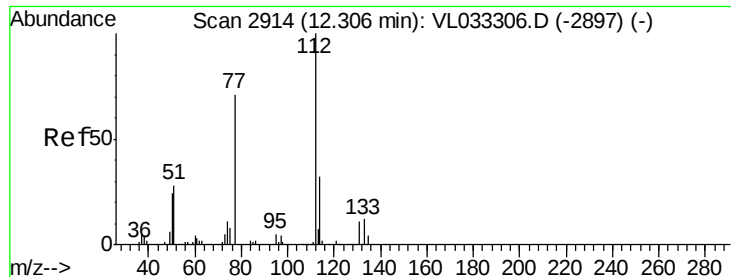
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.157 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.01 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion:131 Resp: 1407296
Ion Ratio Lower Upper
131 100
133 94.8 75.3 112.9
119 108.0 45.0 67.4#





#57

Chlorobenzene

Concen: 13.356 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

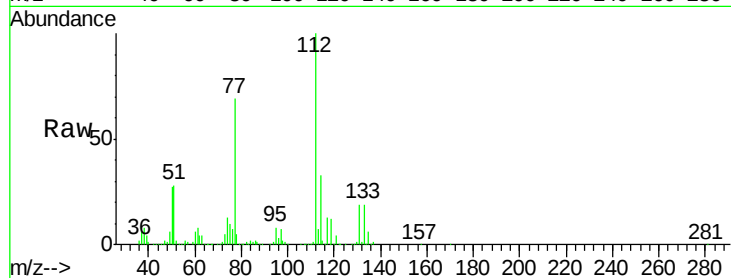
ClientSampleId :

VSTDIC015

Tgt Ion:	112	Resp:	2386812
Ion	Ratio	Lower	Upper
112	100		
77	68.8	54.7	82.1
114	32.6	29.6	36.2

Manual Integrations
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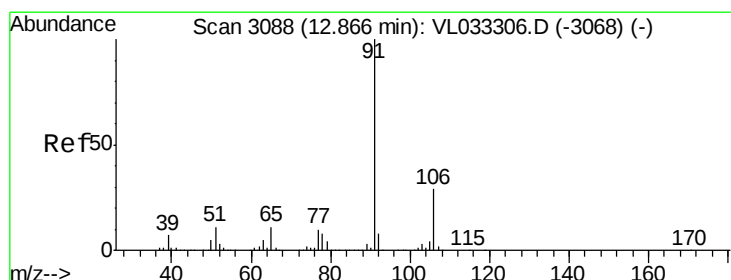
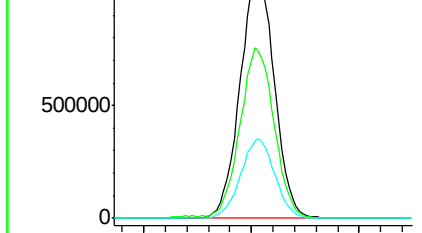
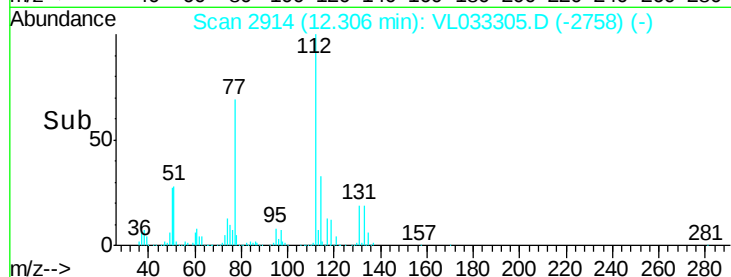


Abundance Ion 112.10 (111.80 to 112.80): VL033306.D (-2897) (-)

Ion 77.10 (76.80 to 77.80): VL033306.D (-2897) (-)

Ion 114.10 (113.80 to 114.80): VL033306.D (-2897) (-)

Time-->



#58

Ethyl Benzene

Concen: 14.343 ppbv

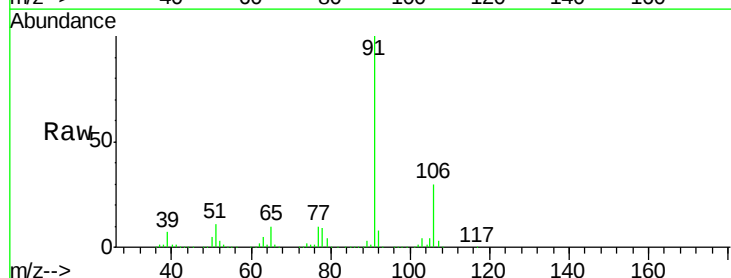
RT: 12.87 min Scan# 3089

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

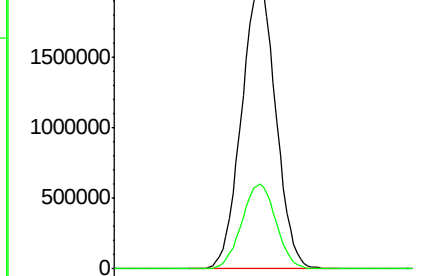
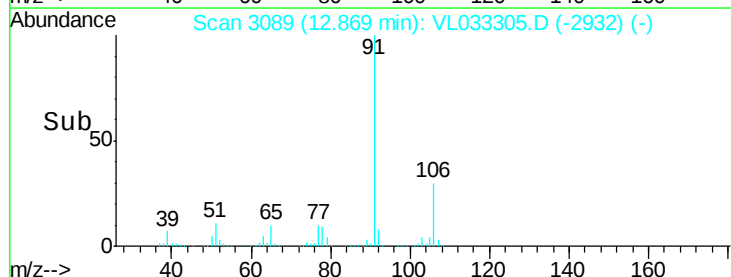
Tgt Ion:	91	Resp:	4570707
Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.8	35.6

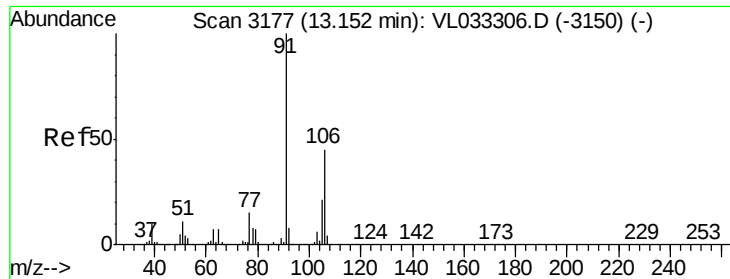


Abundance Ion 91.10 (90.80 to 91.80): VL033306.D (-3068) (-)

Ion 106.10 (105.80 to 106.80): VL033306.D (-3068) (-)

Time-->





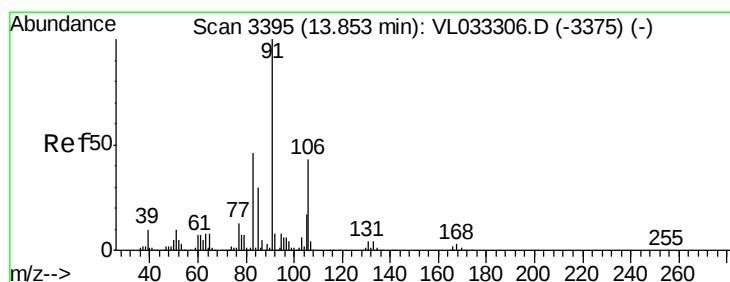
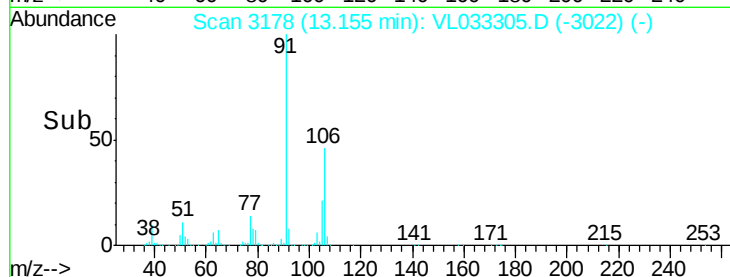
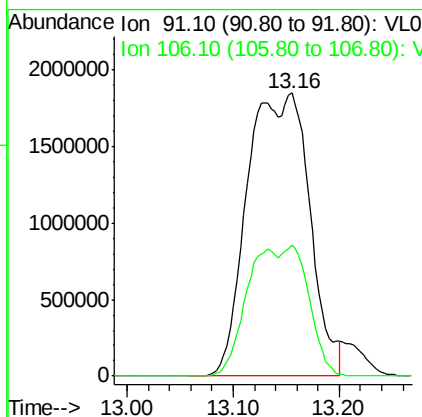
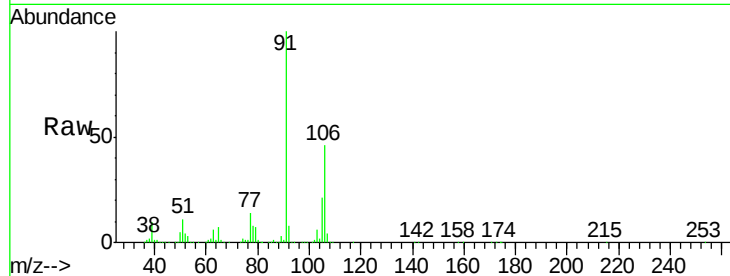
#59
m/p-Xylene
Concen: 28.072 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 7519003
Ion Ratio Lower Upper
91 100
106 44.8 0.0 0.0#

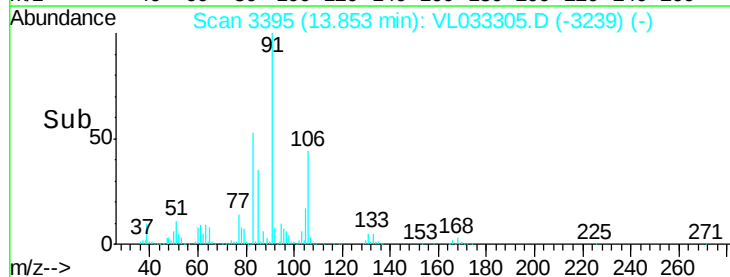
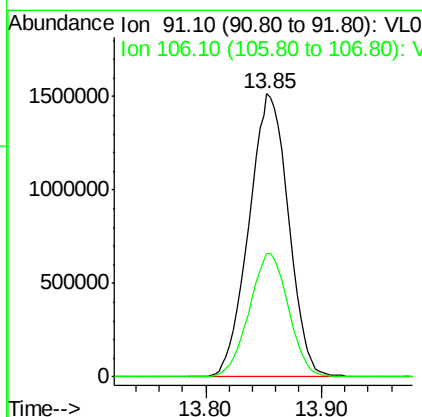
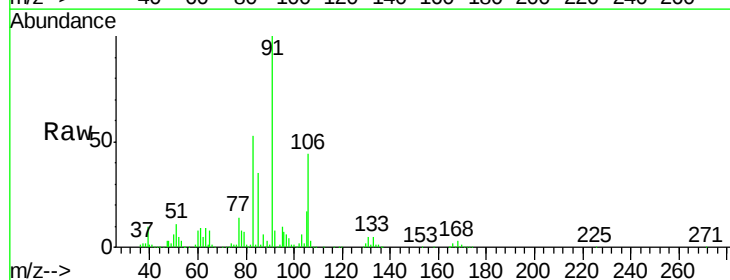
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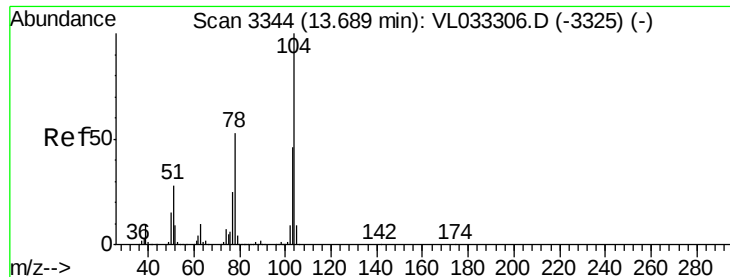
MMDadoda
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#60
o-Xylene
Concen: 13.878 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion: 91 Resp: 3586358
Ion Ratio Lower Upper
91 100
106 43.4 21.4 64.3





#61

Styrene

Concen: 15.509 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.01 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 2781771

Ion Ratio Lower Upper

104 100

78 53.0 43.3 64.9

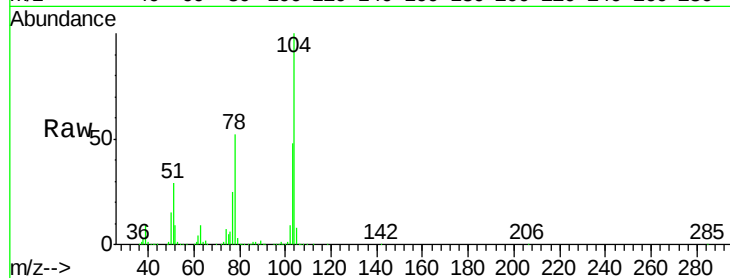
103 47.5 38.2 57.2

Manual Integrations

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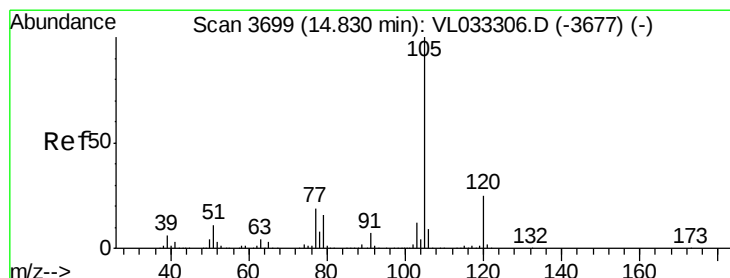
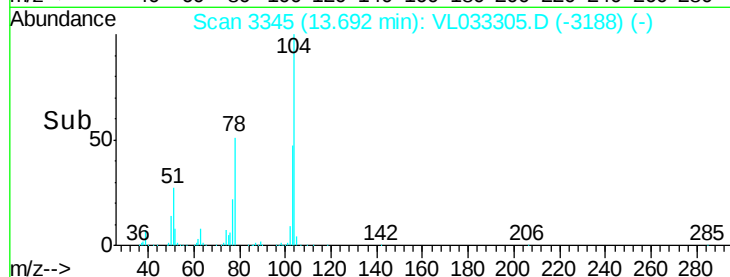
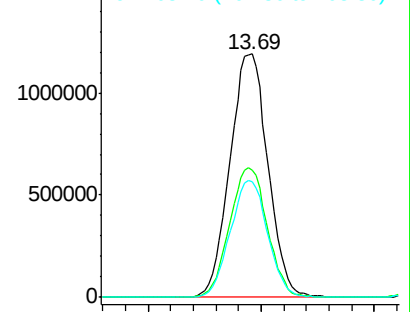
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 14.265 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL033305.D

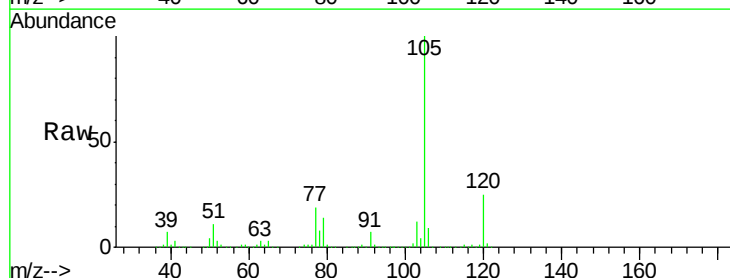
Acq: 13 Mar 2019 22:43

Tgt Ion:105 Resp: 5147645

Ion Ratio Lower Upper

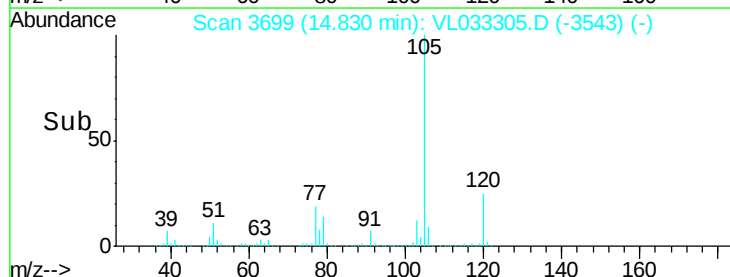
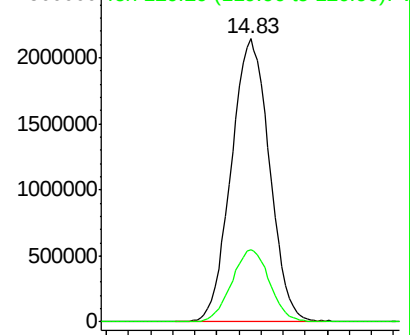
105 100

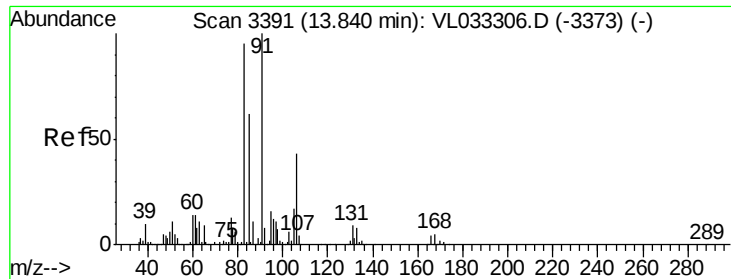
120 25.3 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





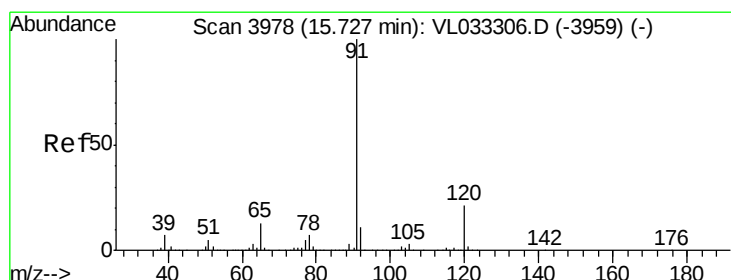
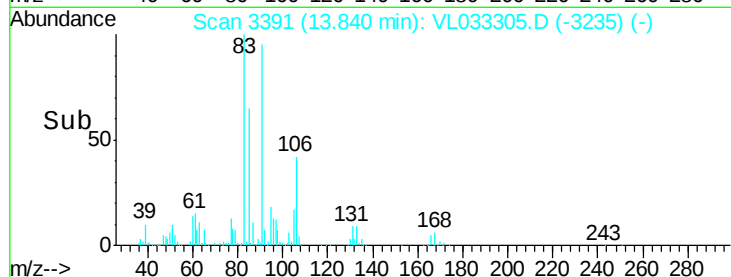
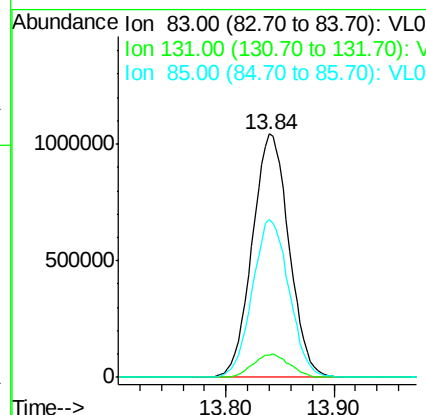
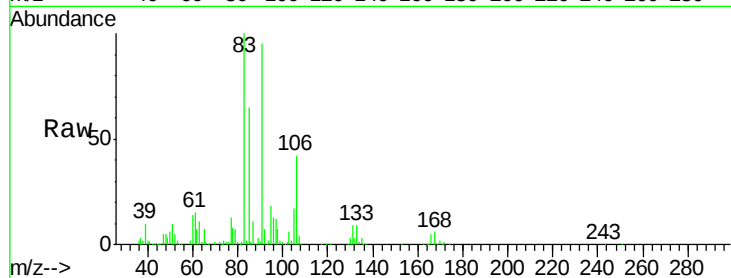
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.366 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.6	13.8
85	64.8	32.5	97.4

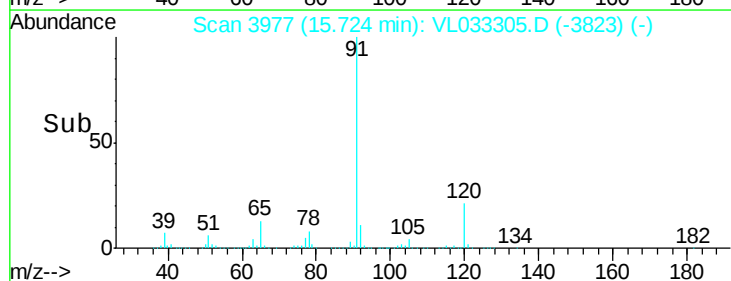
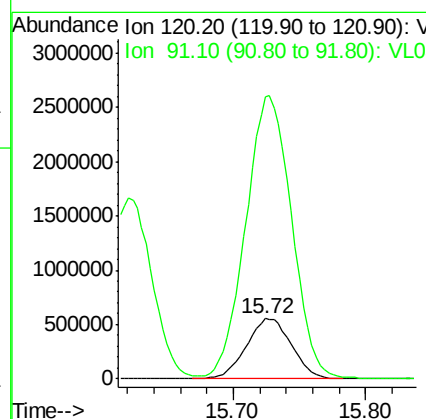
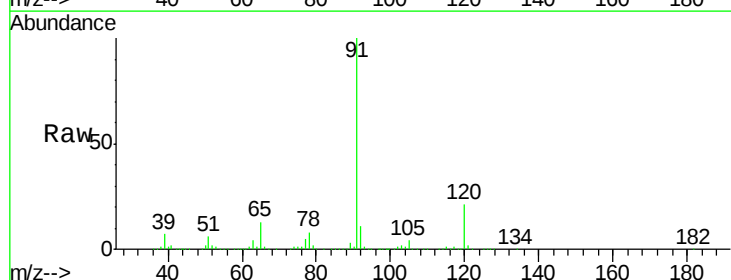
Manual Integrations
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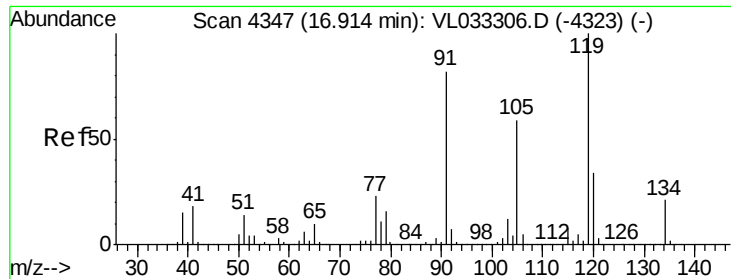
MMDadoda
 3/15/2019 10:41:52 PM



#64
 n-propylbenzene
 Concen: 14.785 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion	Ratio	Lower	Upper
120	100		
91	478.3	393.7	590.5





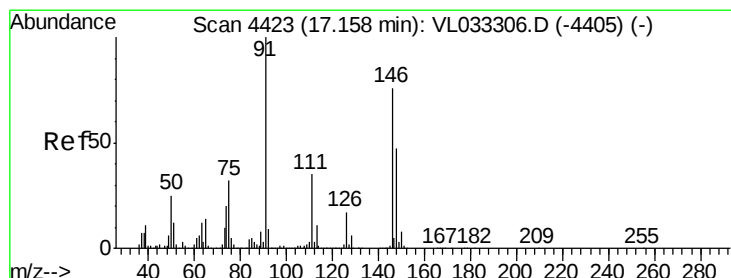
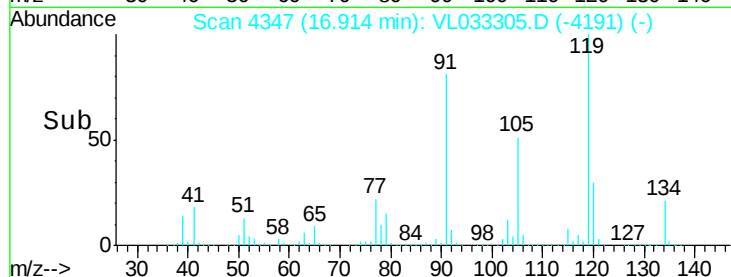
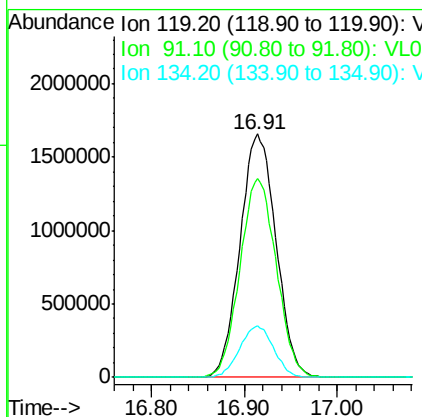
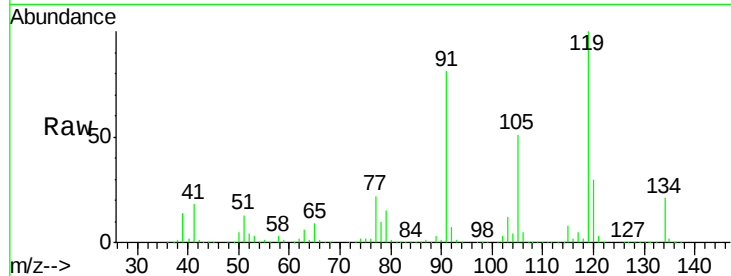
#65
 tert-Butylbenzene
 Concen: 14.764 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 4473732
 Ion Ratio Lower Upper
 119 100
 91 82.6 66.4 99.6
 134 20.0 15.4 23.2

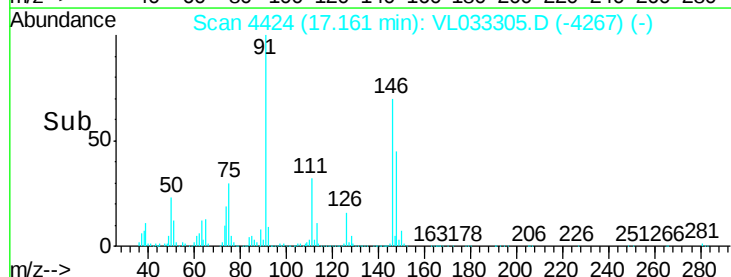
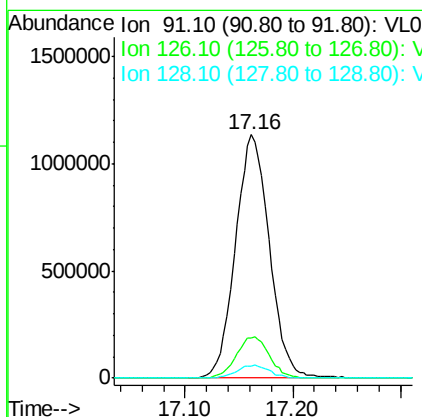
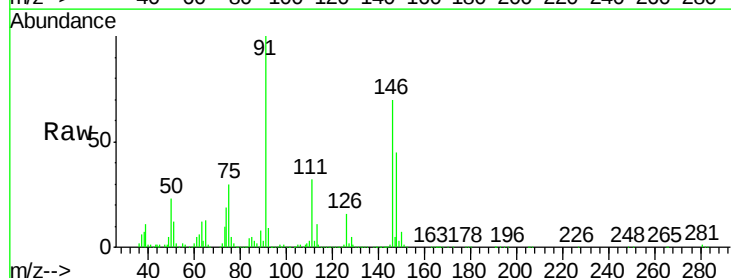
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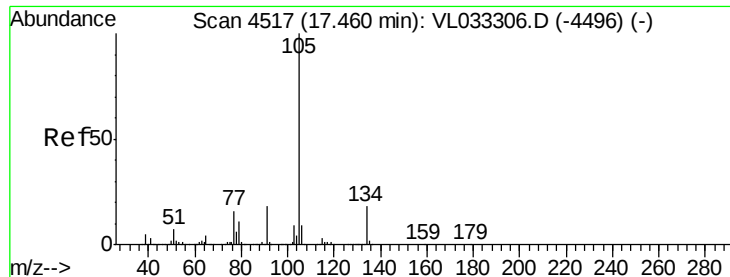
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#66
 Benzyl Chloride
 Concen: 21.320 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 91 Resp: 2479734
 Ion Ratio Lower Upper
 91 100
 126 16.7 12.9 19.3
 128 5.3 4.2 6.2





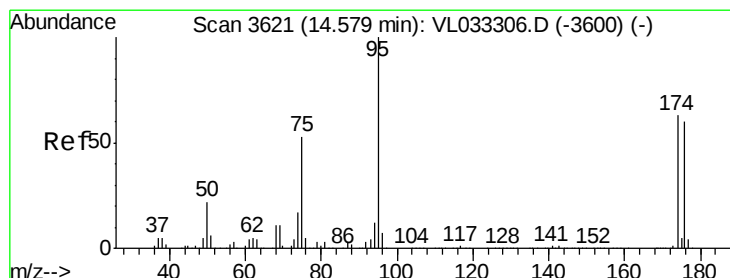
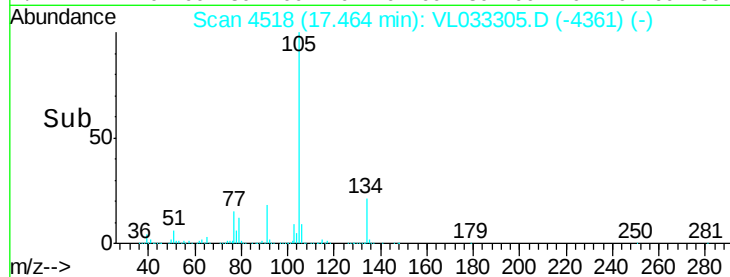
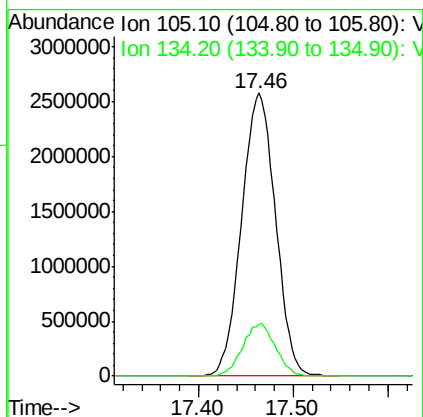
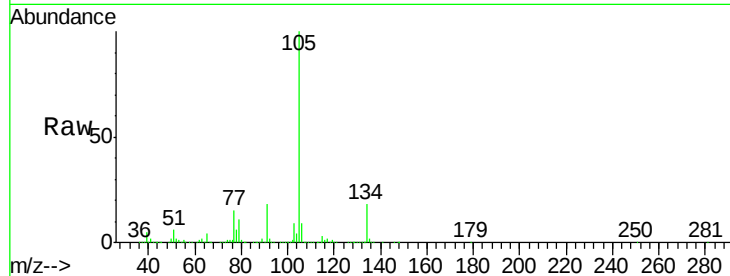
#67
 sec-Butylbenzene
 Concen: 14.706 ppbv
 RT: 17.46 min Scan# 4518
 Delta R.T. 0.01 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 105 Resp: 6425864
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.2 21.2

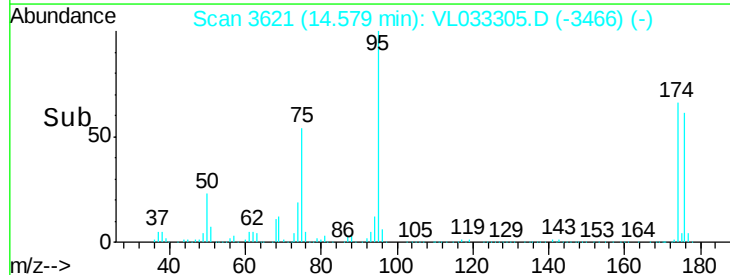
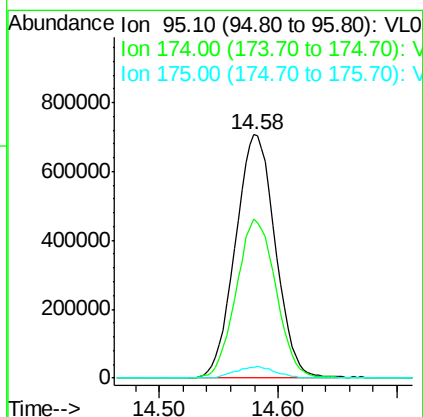
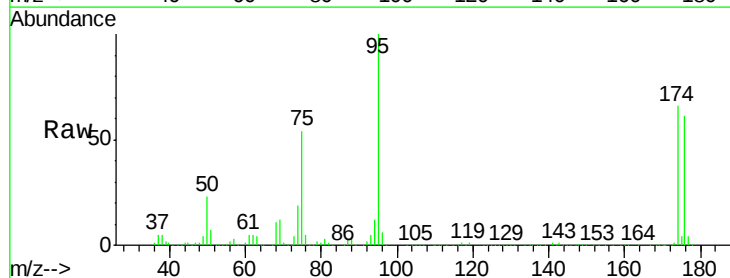
Manual Integrations
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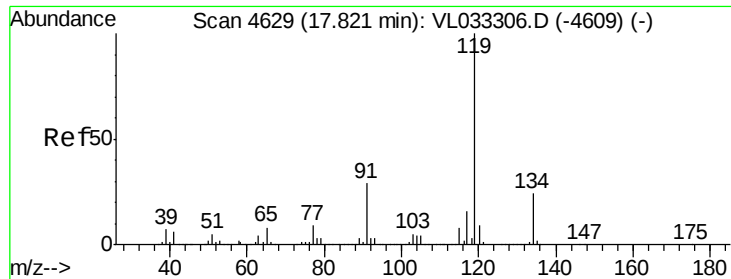
MMDadoda
 3/15/2019 10:41:52 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.502 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion: 95 Resp: 1638498
 Ion Ratio Lower Upper
 95 100
 174 65.5 51.9 77.9
 175 4.8 3.9 5.9





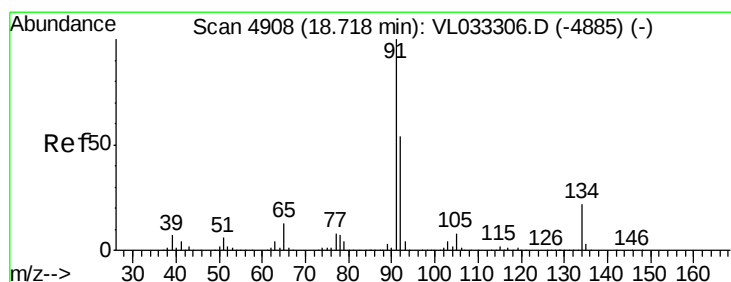
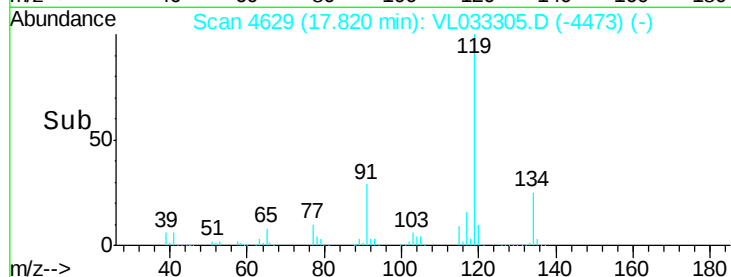
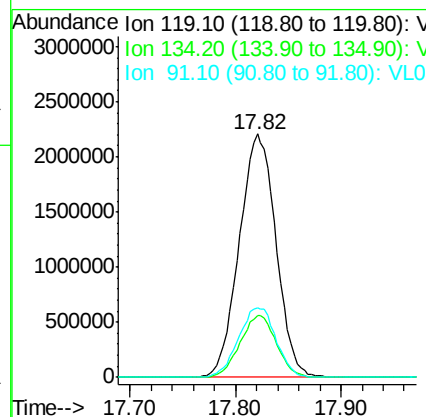
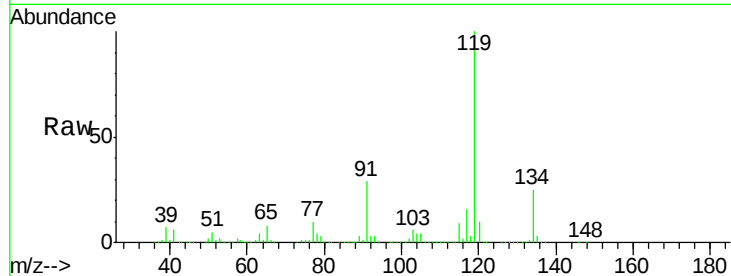
#69
p-Isopropyltoluene
Concen: 15.212 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 5323758
Ion Ratio Lower Upper
119 100
134 25.2 19.8 29.6
91 29.3 23.8 35.8

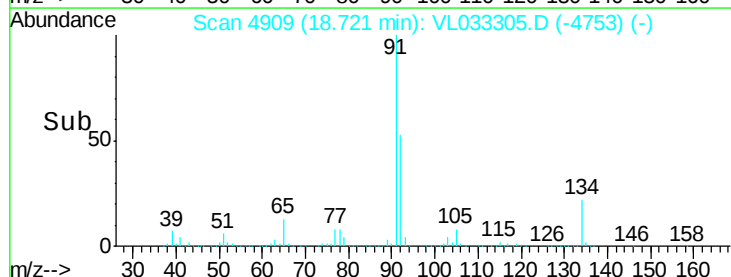
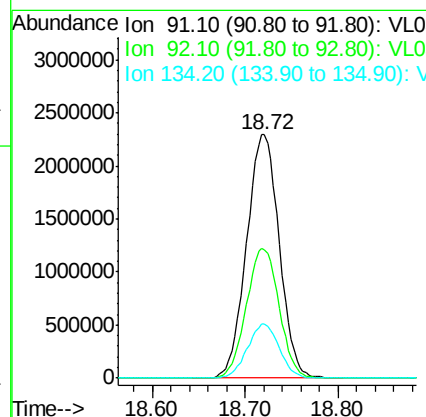
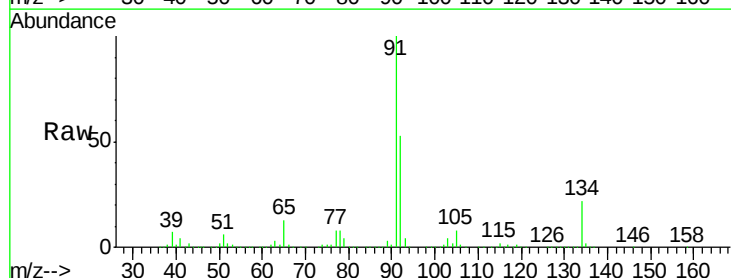
Manual Integrations
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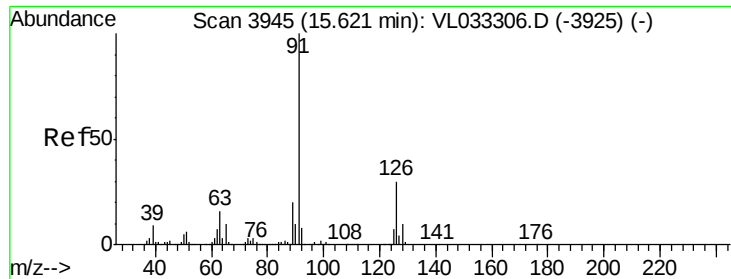
MMDadoda
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#70
n-Butylbenzene
Concen: 15.049 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion: 91 Resp: 5597983
Ion Ratio Lower Upper
91 100
92 53.6 42.6 63.8
134 21.9 17.4 26.0





#71

2-Chlorotoluene

Concen: 14.738 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 3954319

Ion Ratio Lower Upper

91 100

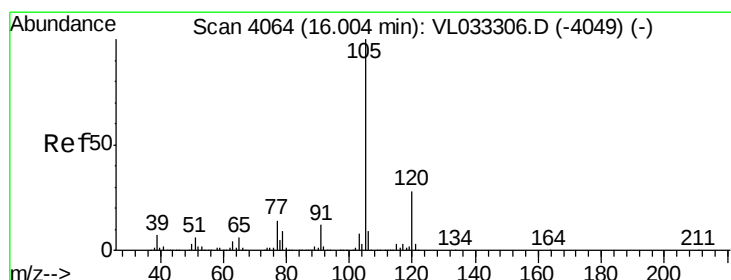
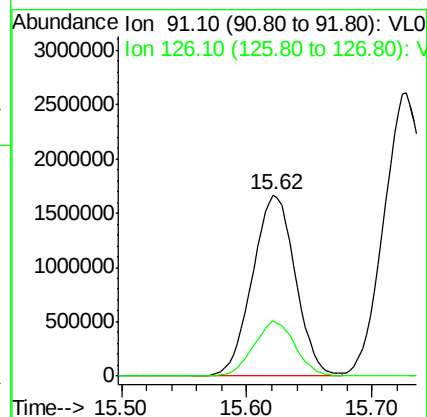
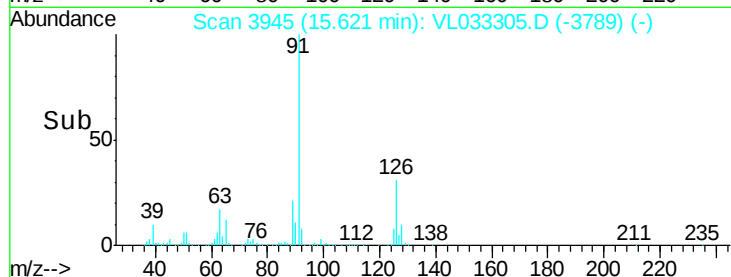
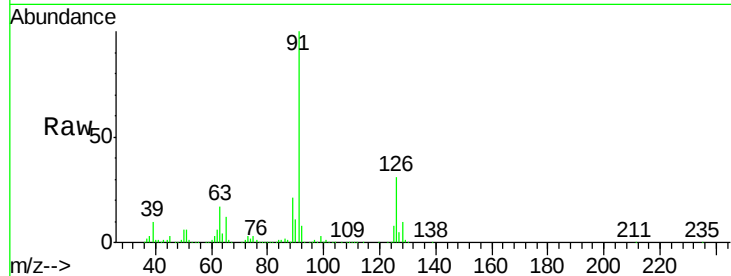
126 29.6 11.8 47.0

Manual Integrations

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#72

4-Ethyltoluene

Concen: 15.441 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Tgt Ion: 105 Resp: 4237511

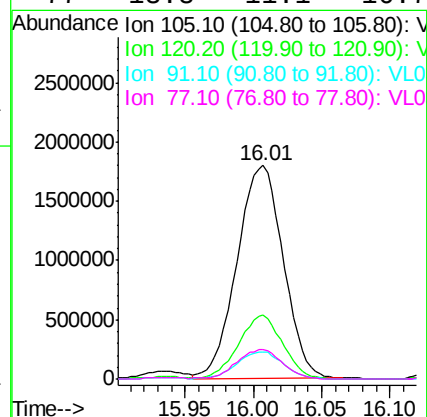
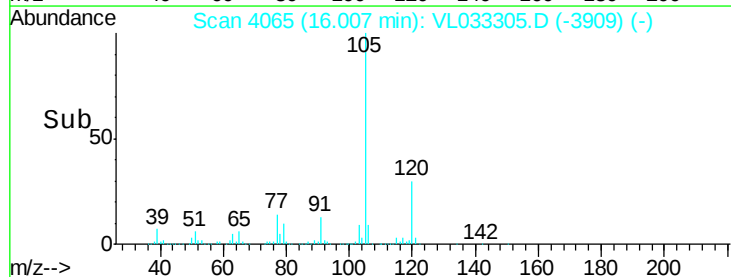
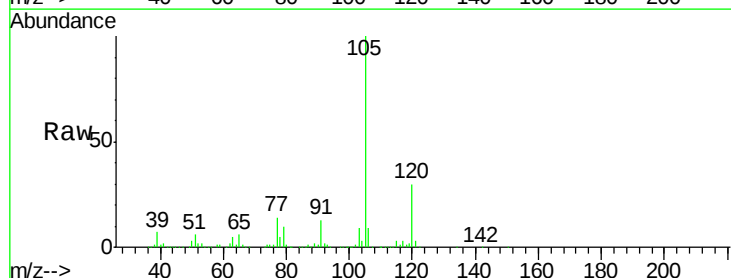
Ion Ratio Lower Upper

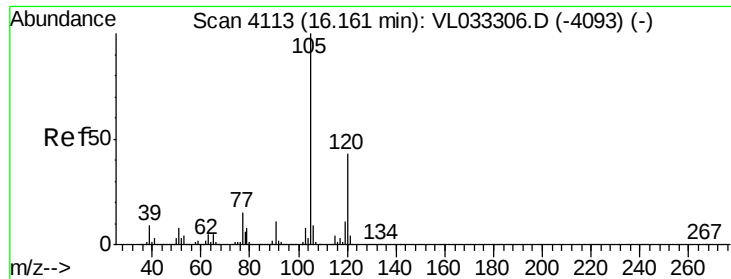
105 100

120 28.9 22.7 34.1

91 12.8 10.3 15.5

77 13.8 11.1 16.7





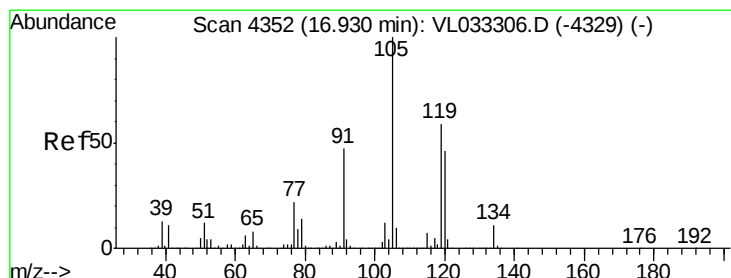
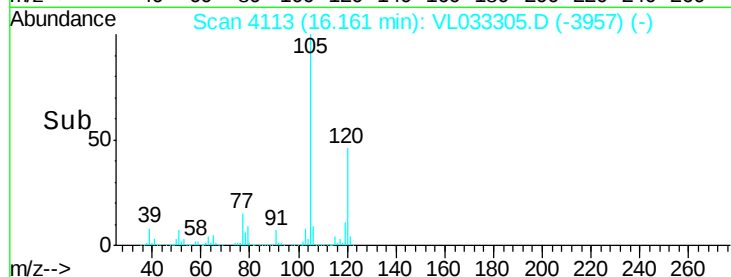
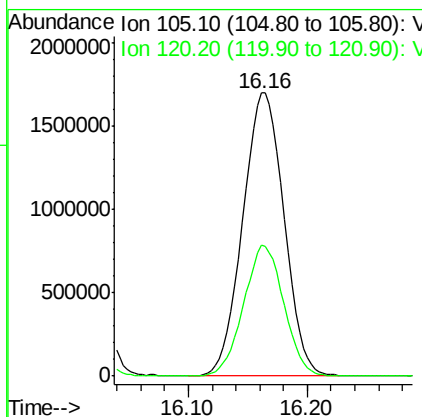
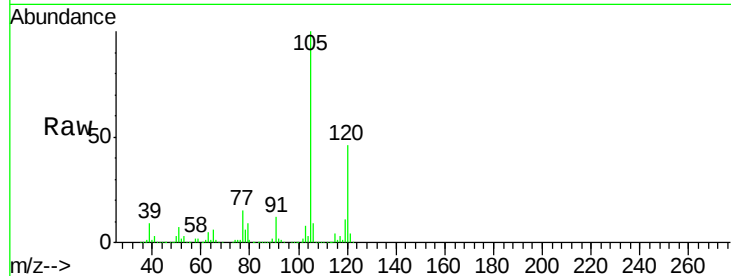
#73
 1,3,5-Trimethylbenzene
 Concen: 15.903 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:105 Resp: 4064243
 Ion Ratio Lower Upper
 105 100
 120 46.1 34.6 52.0

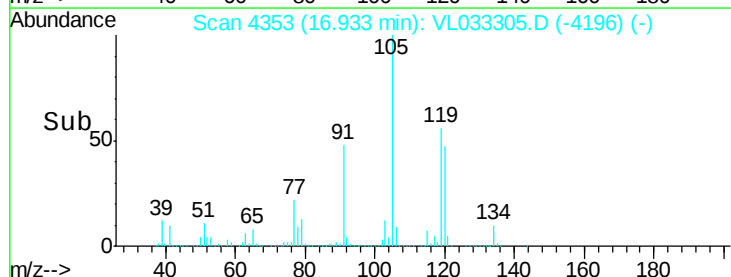
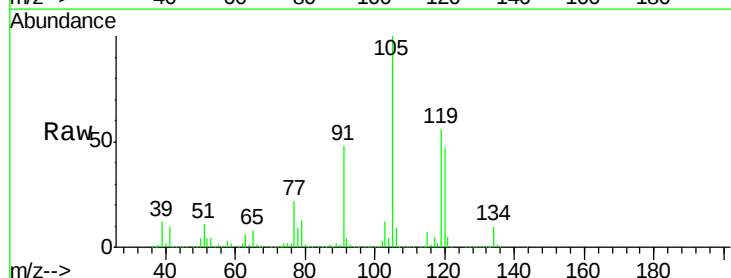
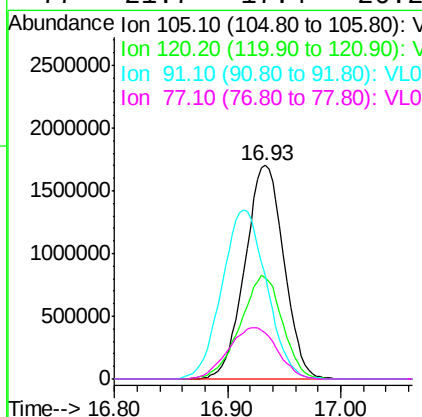
Manual Integrations
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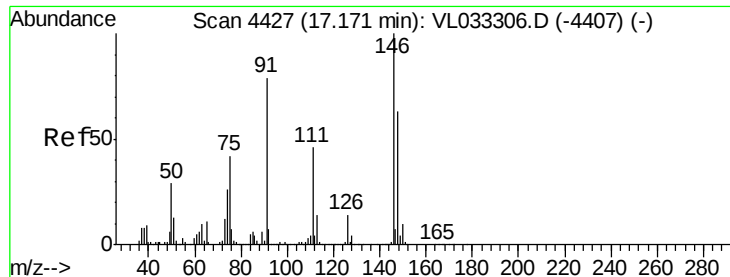
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#74
 1,2,4-Trimethylbenzene
 Concen: 15.422 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion:105 Resp: 4066539
 Ion Ratio Lower Upper
 105 100
 120 47.3 35.2 52.8
 91 48.2 34.0 51.0
 77 21.7 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 14.229 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.01 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion:146 Resp: 2351863

Ion Ratio Lower Upper

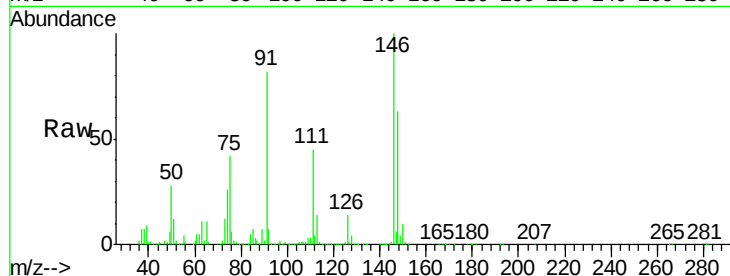
146 100

111 45.7 22.9 68.7

148 63.8 32.4 97.0

Manual Integrations
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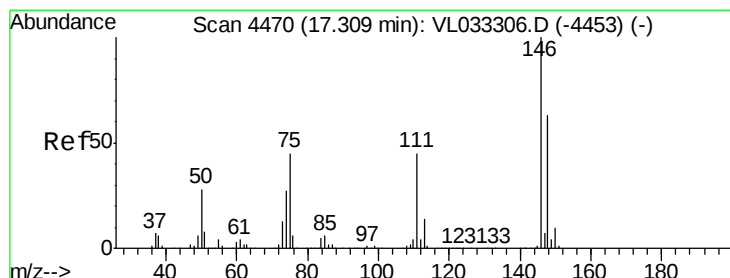
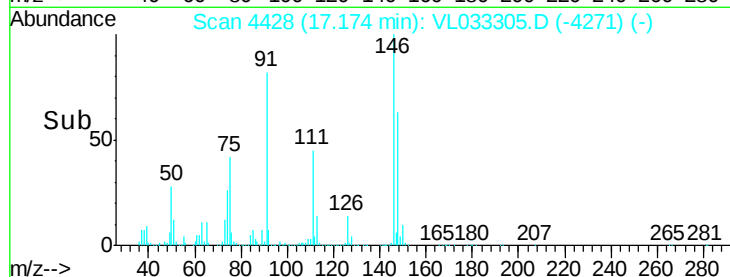
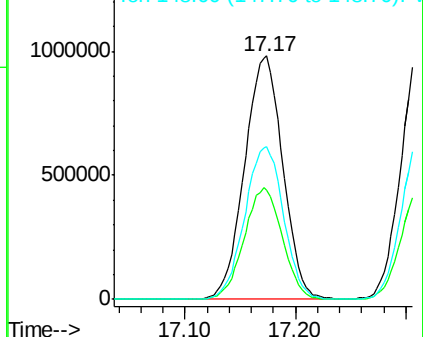
MMDadoda
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.767 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

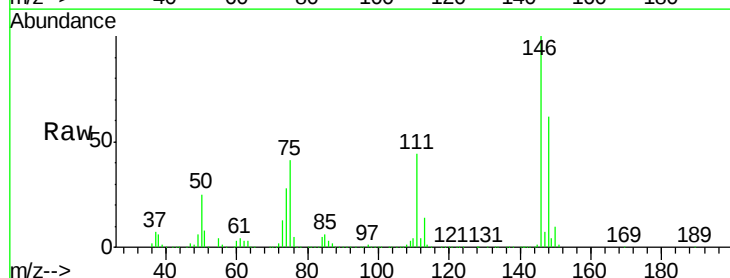
Tgt Ion:146 Resp: 2394937

Ion Ratio Lower Upper

146 100

111 44.1 21.9 65.5

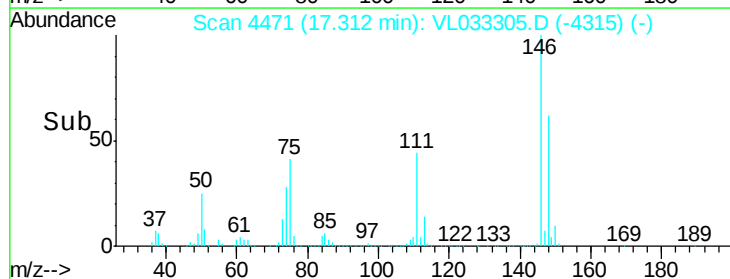
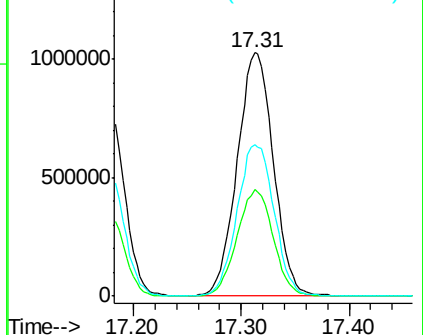
148 63.9 31.8 95.4

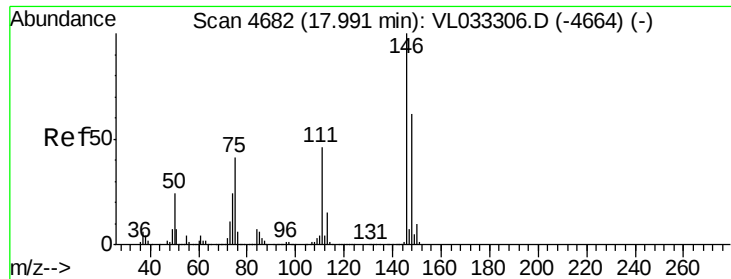


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





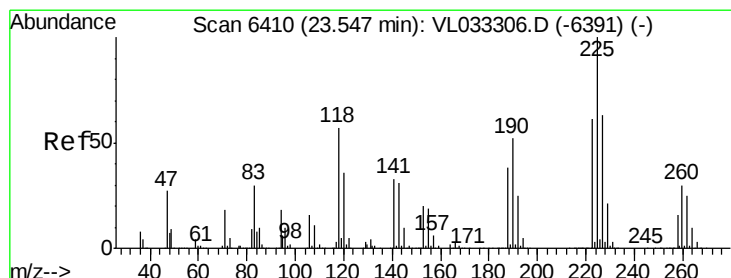
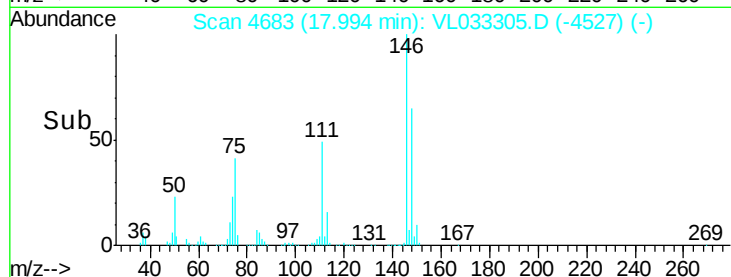
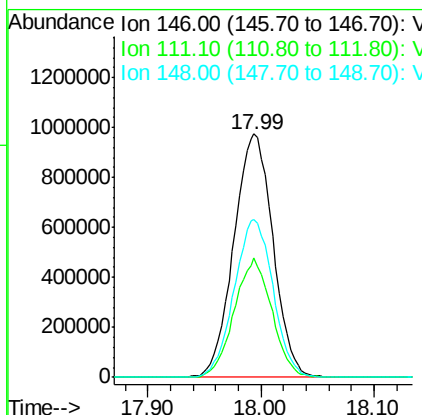
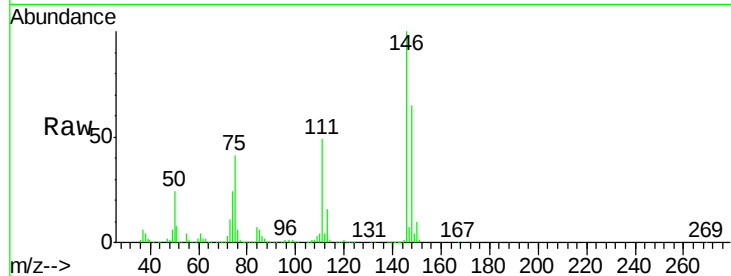
#77
 1,2-Dichlorobenzene
 Concen: 14.485 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:146 Resp: 2346947
 Ion Ratio Lower Upper
 146 100
 111 47.0 23.2 69.6
 148 64.6 32.0 96.0

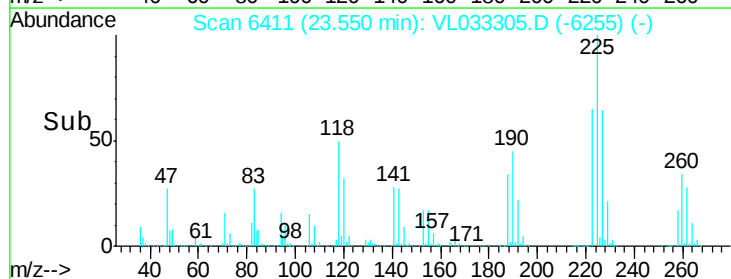
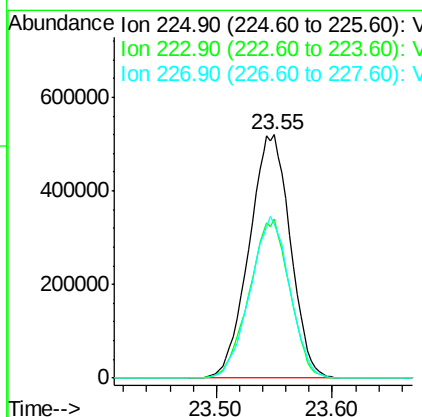
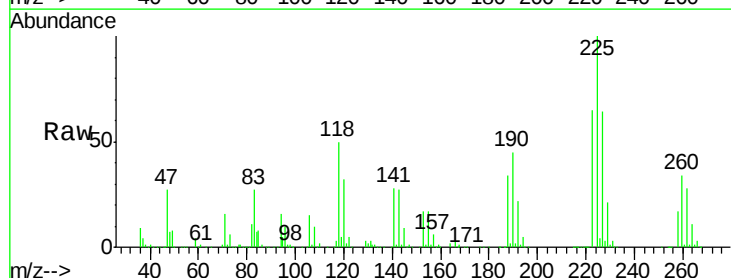
Manual Integrations
 APPROVED

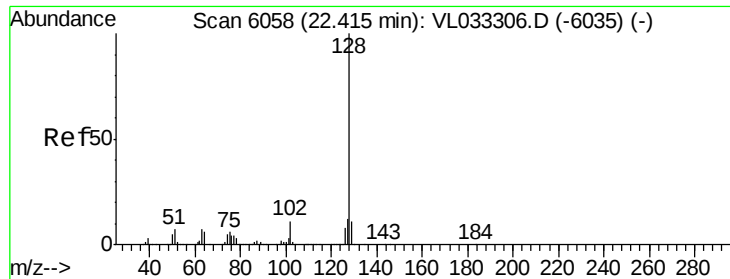
MMDadoda
 3/15/2019 10:41:52 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.689 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033305.D
 Acq: 13 Mar 2019 22:43

Tgt Ion:225 Resp: 1285180
 Ion Ratio Lower Upper
 225 100
 223 63.9 50.3 75.5
 227 63.8 51.2 76.8





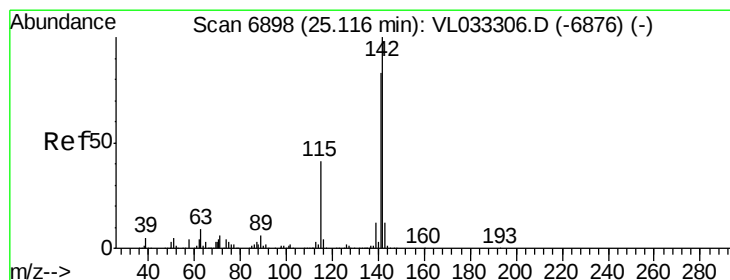
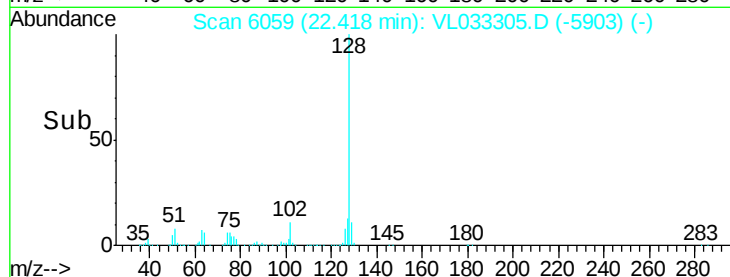
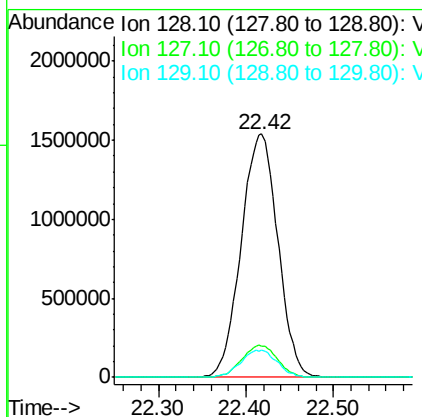
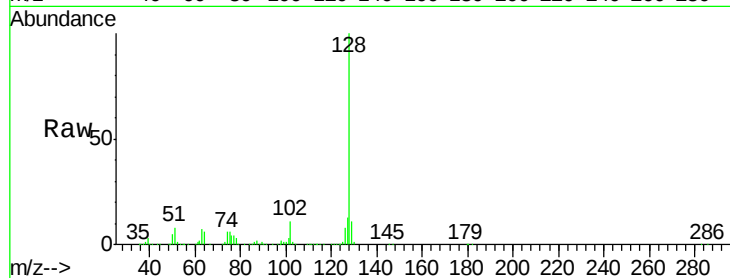
#79
Naphthalene
Concen: 16.924 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:128 Resp: 4471588
Ion Ratio Lower Upper
128 100
127 12.7 10.8 16.2
129 11.0 8.9 13.3

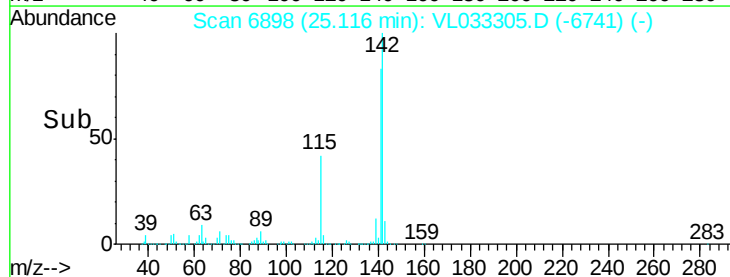
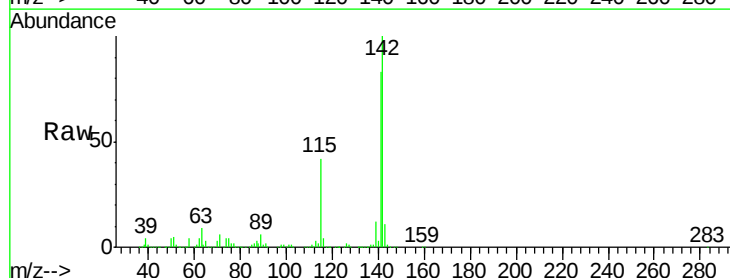
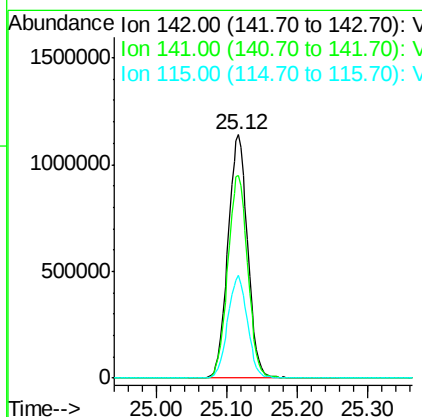
Manual Integrations
APPROVED

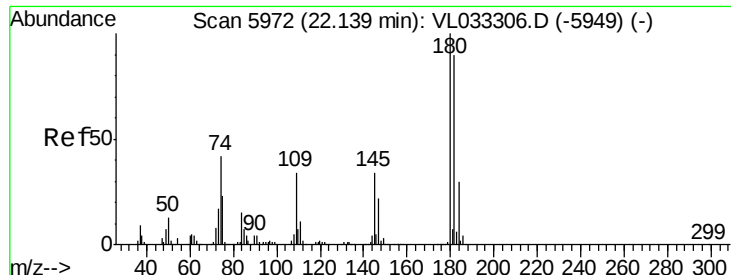
MMDadoda
3/15/2019 10:41:52 PM



#80
Naphthalene, 2-methyl-
Concen: 31.461 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.00 min
Lab File: VL033305.D
Acq: 13 Mar 2019 22:43

Tgt Ion:142 Resp: 2226077
Ion Ratio Lower Upper
142 100
141 84.5 67.2 100.8
115 42.1 33.6 50.4





#81

1,2,4-Trichlorobenzene

Concen: 15.576 ppbv

RT: 22.14 min Scan# 5972

Delta R.T. -0.00 min

Lab File: VL033305.D

Acq: 13 Mar 2019 22:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:180 Resp: 2204757

Ion Ratio Lower Upper

180 100

182 95.6 76.4 114.6

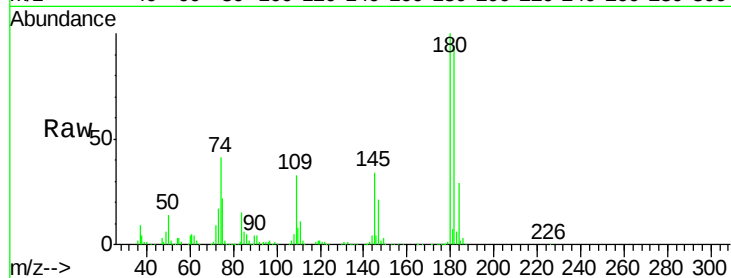
184 30.1 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:52 PM



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

