

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033423.D
 Acq On : 21 Mar 2019 19:56
 Operator : SY/AP
 Sample : VL0321ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:11 AM

Quant Time: Mar 22 09:15:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	751774	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1793741	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2250217m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1615468	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1578626	11.941	ppbv	100
3) Chlorodifluoromethane	3.02	51	935655	10.843	ppbv	98
4) Chloromethane	3.17	50	485421	10.389	ppbv	96
5) Vinyl Chloride	3.29	62	482793	10.016	ppbv	96
6) Bromomethane	3.52	94	310074	10.822	ppbv	95
7) Chloroethane	3.60	64	177330	10.528	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1228973	10.919	ppbv	100
9) Propene	3.04	41	393722	10.222	ppbv	100
10) Heptane	8.25	43	1055046	11.043	ppbv	100
11) Trichlorofluoromethane	4.00	101	1410962	10.718	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	966576	11.066	ppbv	99
13) Ethanol	3.65	45	100947	5.497	ppbv	98
14) Bromoethene	3.79	108	392666	10.786	ppbv	99
15) Acetone	3.90	43	879680	7.528	ppbv	100
16) 1,3-Butadiene	3.36	39	426505	11.237	ppbv	94
17) tert-Butyl alcohol	4.36	59	184939	11.245	ppbv	98
18) 1,1-Dichloroethene	4.35	96	425085	10.644	ppbv	99
19) Isopropyl Alcohol	4.02	45	666780	11.995	ppbv	100
20) Methylene Chloride	4.41	84	353602	9.278	ppbv	98
21) Allyl Chloride	4.48	41	648840	11.446	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	442307	11.428	ppbv	98
23) Vinyl Acetate	5.16	43	1462134	10.813	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1034617	10.595	ppbv	99
25) Ethyl Acetate	5.77	43	1745215	10.273	ppbv	100
26) Hexane	5.78	57	773408	10.184	ppbv	99
27) Carbon Disulfide	4.62	76	1050714	12.018	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1227764	10.884	ppbv	99
29) Chloroform	5.85	83	1329646	10.693	ppbv	99
30) Cyclohexane	7.25	84	673070	11.054	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	826525	10.885	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1322015	10.828	ppbv	99
34) 2-Butanone	5.33	43	1158665	9.836	ppbv	98
35) Carbon Tetrachloride	7.14	117	1414800	11.188	ppbv	100
36) Benzene	7.01	78	1632954	10.172	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1041699	10.263	ppbv	99
38) Trichloroethene	7.97	130	648974	10.683	ppbv	98
39) 1,2-Dichloropropane	7.74	63	618086	10.281	ppbv	98
40) 1,4-Dioxane	7.96	88	259487	12.258	ppbv	66
41) Tetrahydrofuran	6.15	42	637094	10.134	ppbv	99
42) Bromodichloromethane	7.92	83	1485663	10.917	ppbv	99
43) Methyl Methacrylate	8.14	69	678201	10.850	ppbv	99

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Manual Integrations
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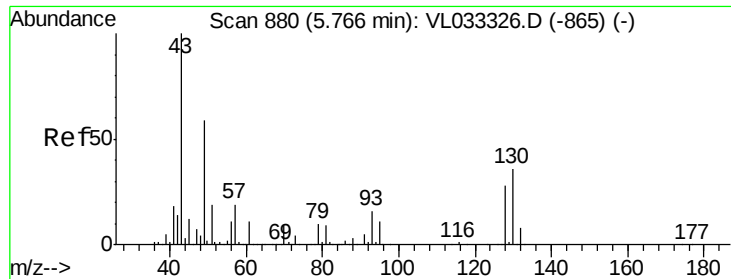
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 3/25/2019 8:28:11 AM

Quant Time: Mar 22 09:15:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	2807164	10.558	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	916464	11.876	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1019972	11.225	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	693891	10.447	ppbv	96
48) Dibromochloromethane	10.45	129	1463998	13.142	ppbv	100
49) Bromoform	13.21	173	1295645	12.261	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1696554	10.196	ppbv	100
51) 2-Hexanone	10.27	43	1539439	11.992	ppbv #	100
52) Tetrachloroethene	11.38	164	719893	10.764	ppbv	99
53) Toluene	9.95	91	2254374	12.359	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1282815	11.425	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1030198	10.234	ppbv	96
57) Chlorobenzene	12.30	112	1699627	9.537	ppbv	98
58) Ethyl Benzene	12.87	91	3196228	10.041	ppbv	98
59) m/p-Xylene	13.13	91	5417176m	19.802	ppbv	
60) o-Xylene	13.85	91	2638865	9.888	ppbv	100
61) Styrene	13.69	104	1929000	10.323	ppbv	99
62) Isopropylbenzene	14.83	105	3672122	9.897	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1815881	9.412	ppbv	100
64) n-propylbenzene	15.73	120	942703	10.041	ppbv	98
65) tert-Butylbenzene	16.91	119	3280851	9.822	ppbv	100
66) Benzyl Chloride	17.16	91	1634071	11.838	ppbv	100
67) sec-Butylbenzene	17.46	105	4664291	9.854	ppbv	100
69) p-Isopropyltoluene	17.82	119	3835695	9.919	ppbv	99
70) n-Butylbenzene	18.71	91	4013747	9.734	ppbv	100
71) 2-Chlorotoluene	15.62	91	2823542	9.776	ppbv	100
72) 4-Ethyltoluene	16.00	105	3026025	9.984	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2921413	9.895	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3005076	9.610	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1710338	9.280	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1709505	9.580	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1658151	9.500	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	944113	9.022	ppbv	100
79) Naphthalene	22.42	128	2597979	8.622	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	841476	5.889	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1351036	8.792	ppbv	99

(#) = 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

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

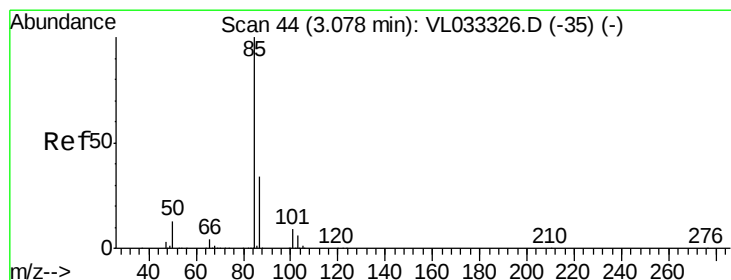
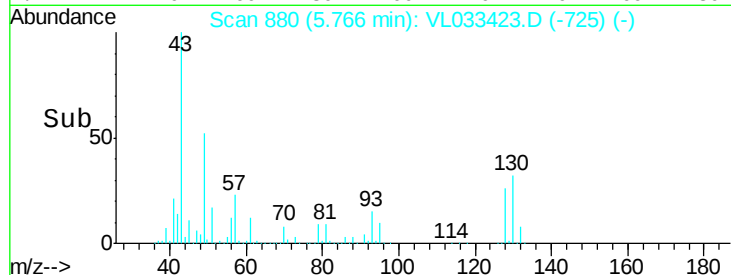
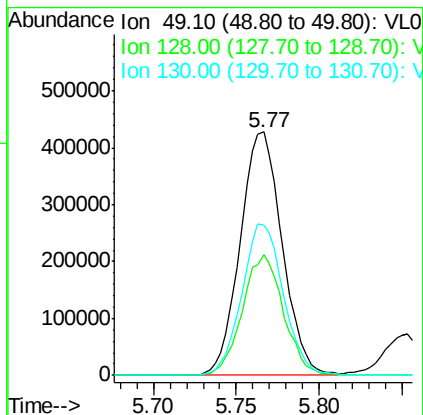
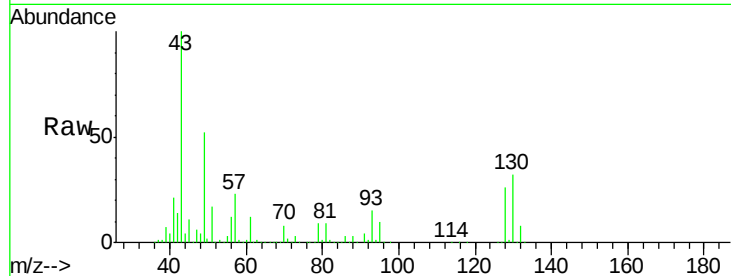
ClientSampleId :

VL0321ABS01

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.5	70.6
130	61.9	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 11.941 ppbv

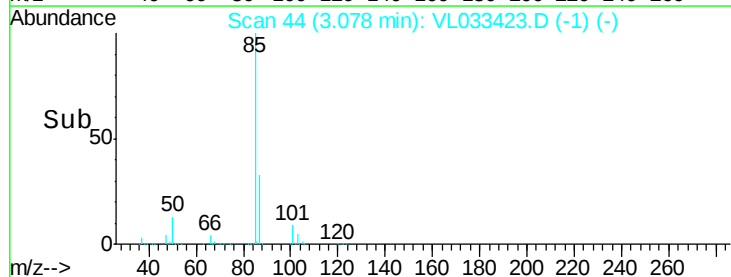
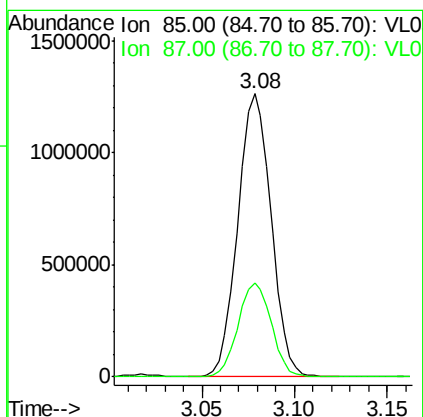
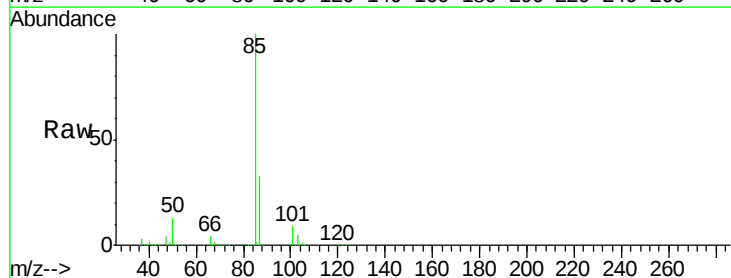
RT: 3.08 min Scan# 44

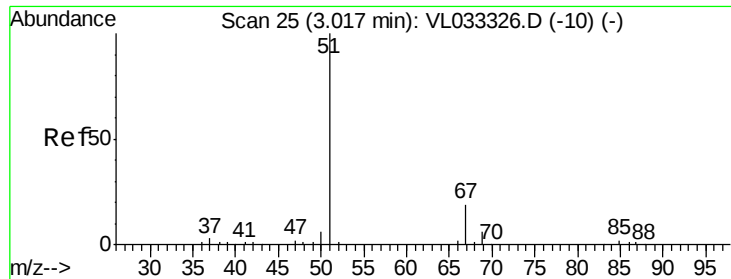
Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 10.843 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tot Ion: 51 Resp: 935655

Ion Ratio Lower Upper

51 100

67 19.5 14.9 22.3

Instrument :

MSVOA_L

ClientSampleId :

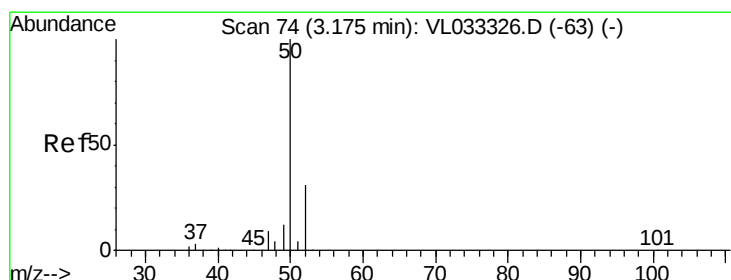
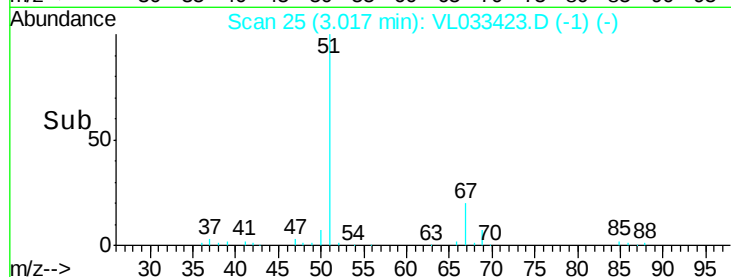
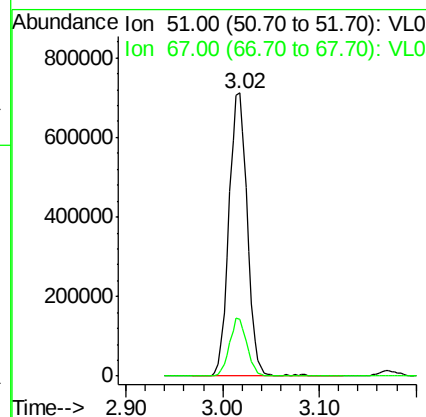
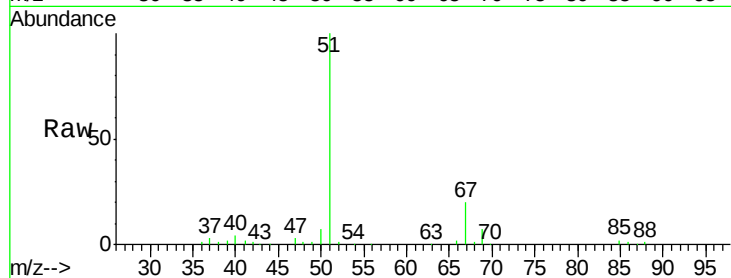
VL0321ABS01

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#4

Chloromethane

Concen: 10.389 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033423.D

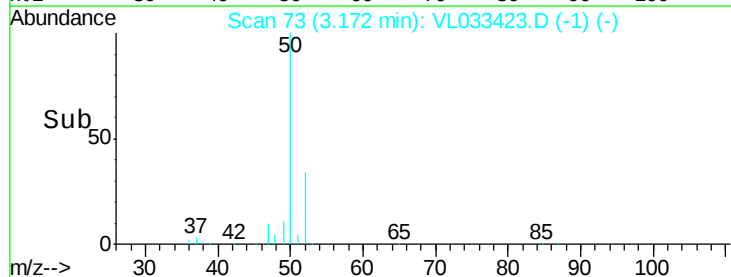
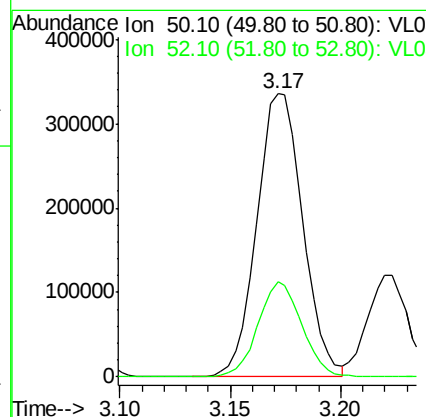
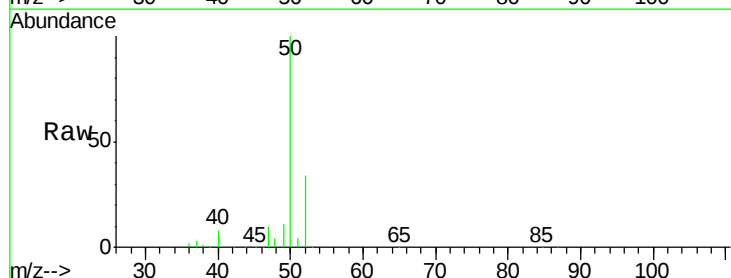
Acq: 21 Mar 2019 19:56

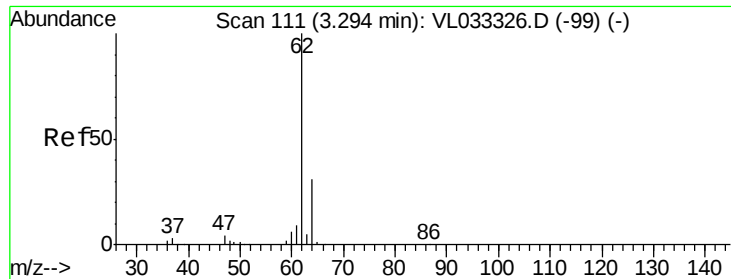
Tgt Ion: 50 Resp: 485421

Ion Ratio Lower Upper

50 100

52 33.6 25.0 37.6





#5

Vinyl Chloride

Concen: 10.016 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 62 Resp: 482793

Ion Ratio Lower Upper

62 100

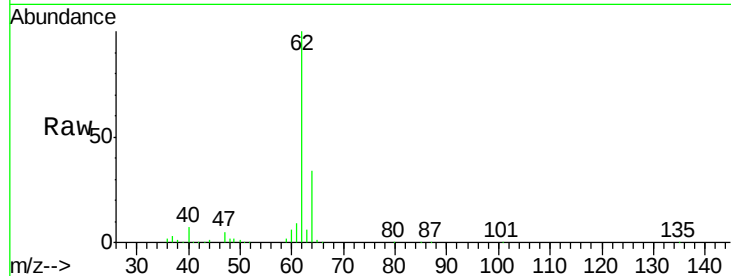
64 33.6 25.0 37.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

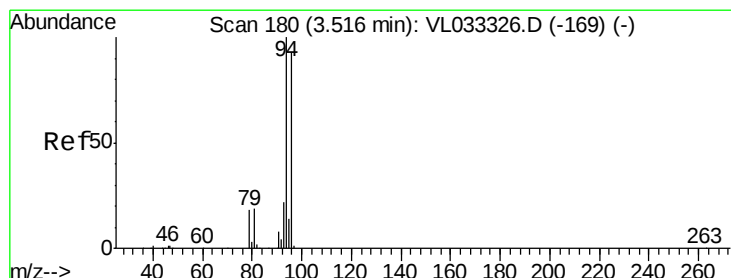
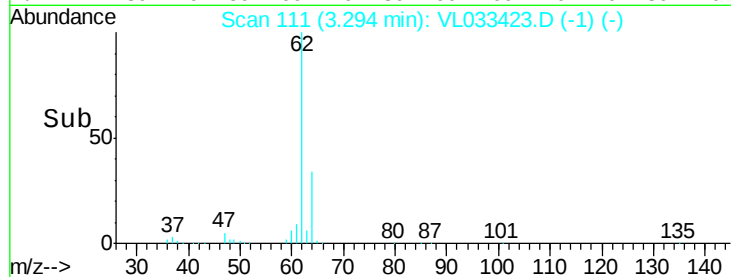
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.822 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033423.D

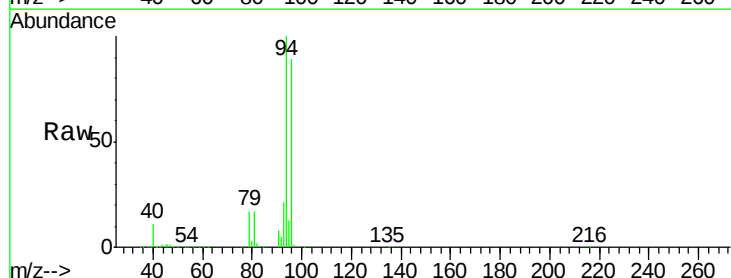
Acq: 21 Mar 2019 19:56

Tgt Ion: 94 Resp: 310074

Ion Ratio Lower Upper

94 100

96 88.6 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

250000

200000

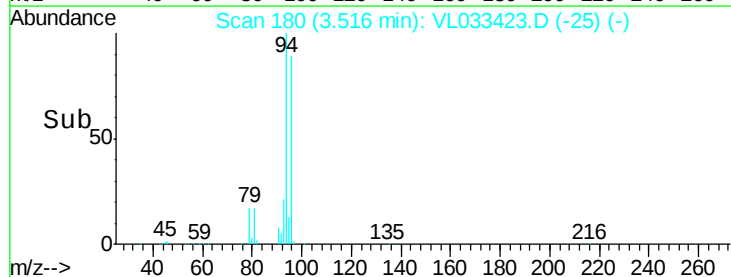
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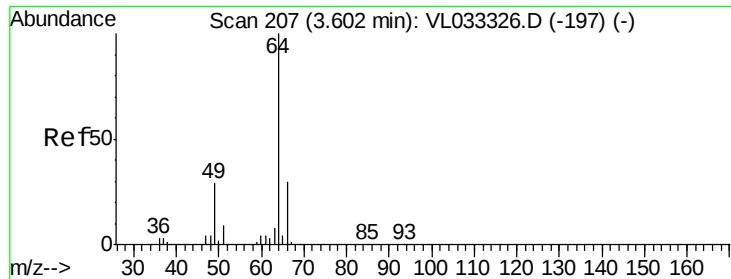
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.528 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 64 Resp: 177330

Ion Ratio Lower Upper

64 100

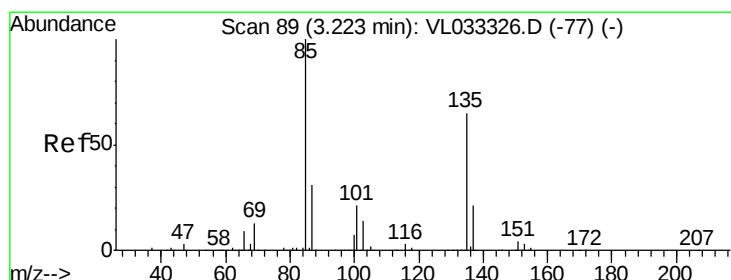
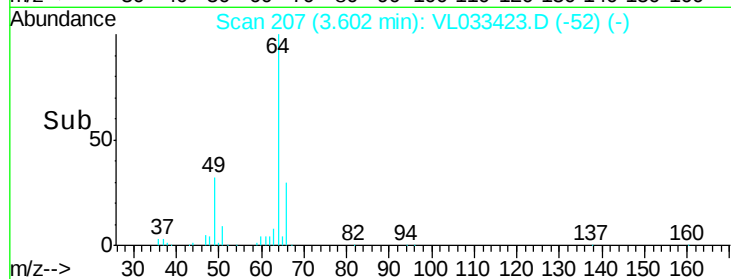
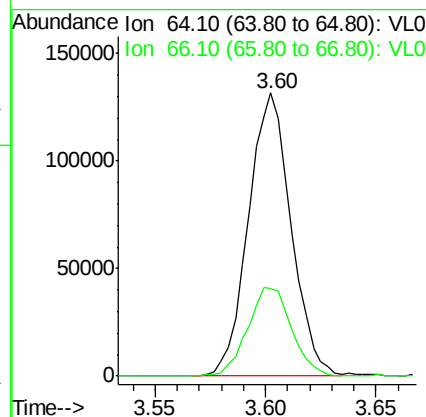
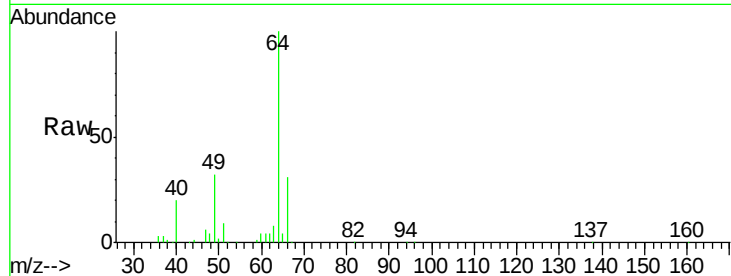
66 30.9 24.0 36.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.919 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033423.D

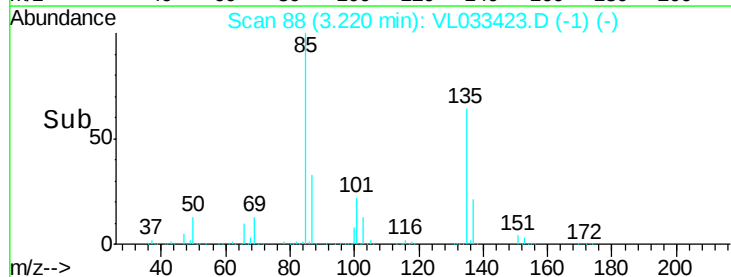
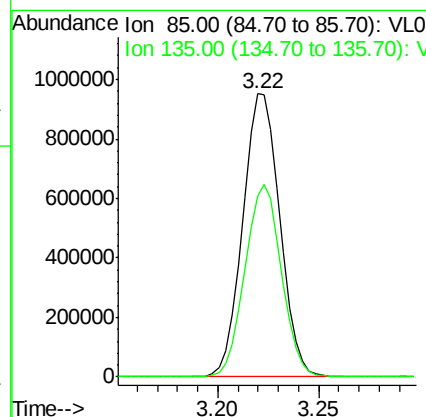
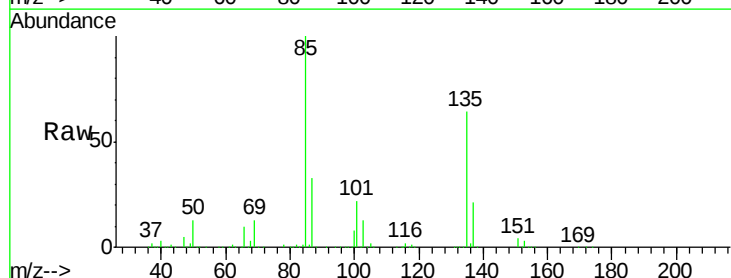
Acq: 21 Mar 2019 19:56

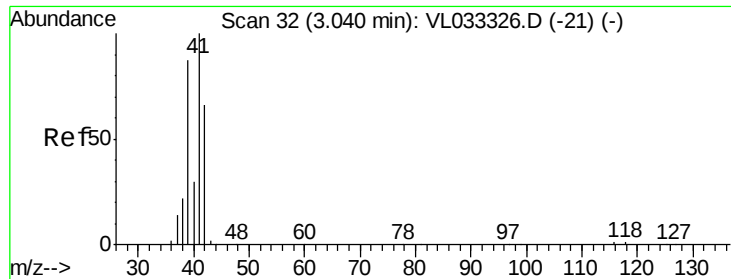
Tgt Ion: 85 Resp: 1228973

Ion Ratio Lower Upper

85 100

135 67.0 53.4 80.2





#9

Propene

Concen: 10.222 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 41 Resp: 393722

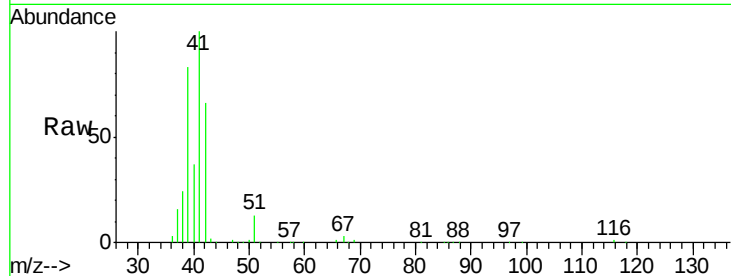
Ion Ratio Lower Upper

41 100

42 69.2 55.2 82.8

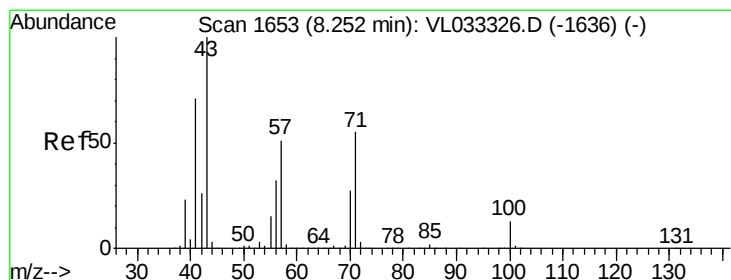
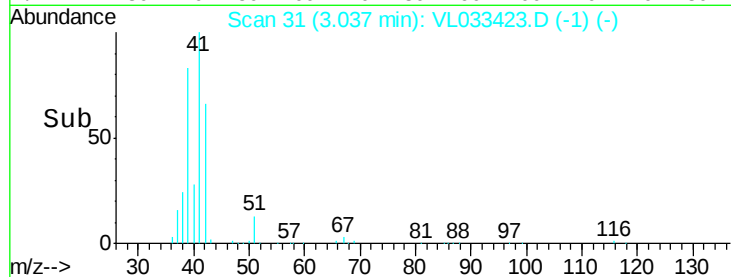
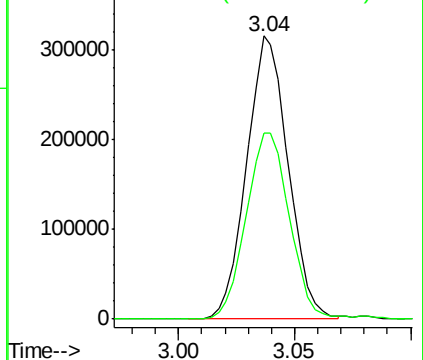
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.043 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033423.D

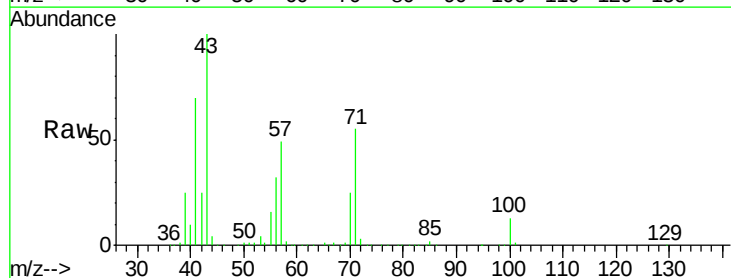
Acq: 21 Mar 2019 19:56

Tgt Ion: 43 Resp: 1055046

Ion Ratio Lower Upper

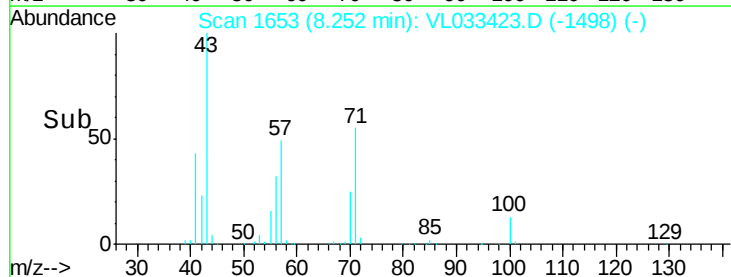
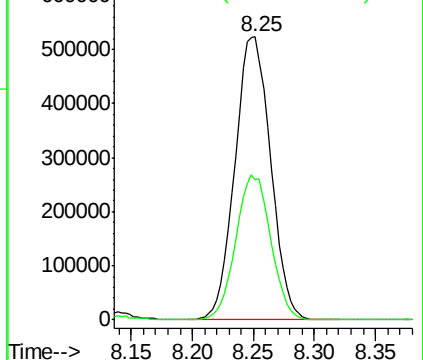
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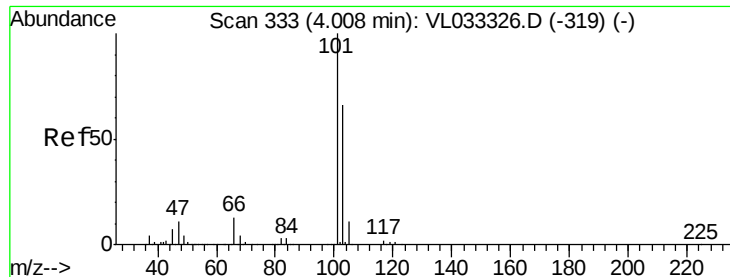
57 50.3 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





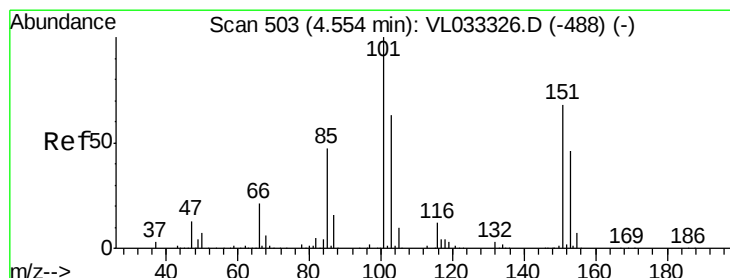
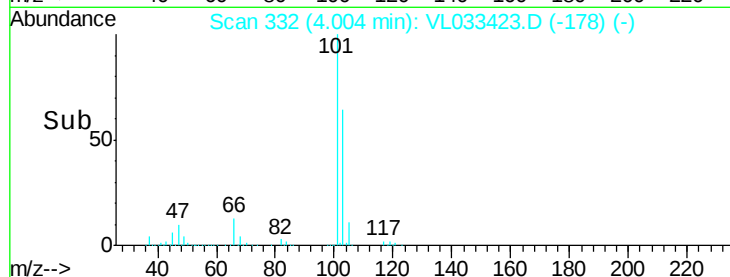
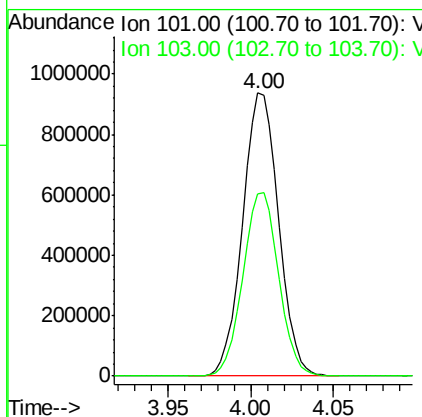
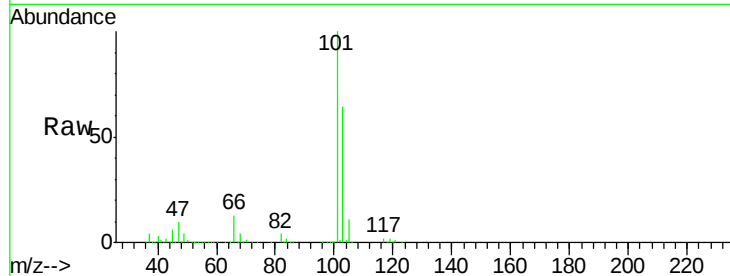
#11
 Trichlorofluoromethane
 Concen: 10.718 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion:101 Resp: 1410962
 Ion Ratio Lower Upper
 101 100
 103 64.5 52.9 79.3

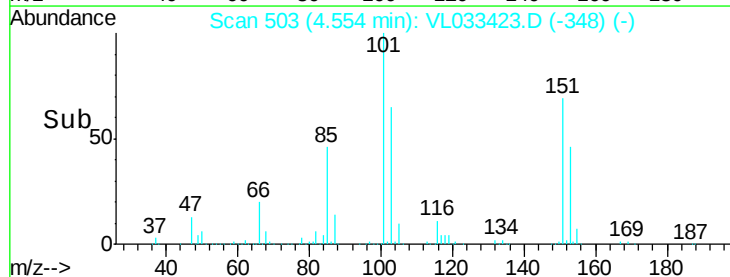
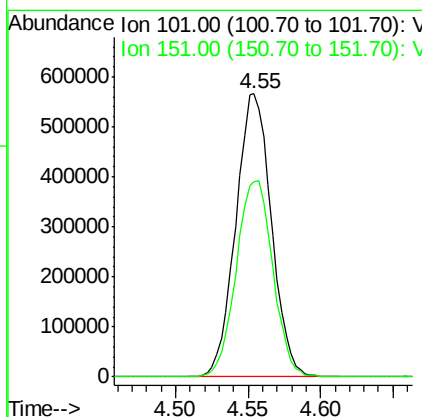
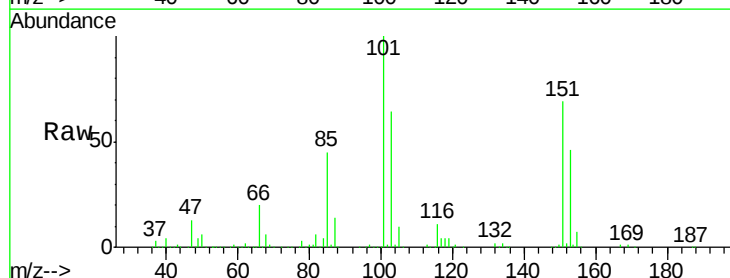
Manual Integrations
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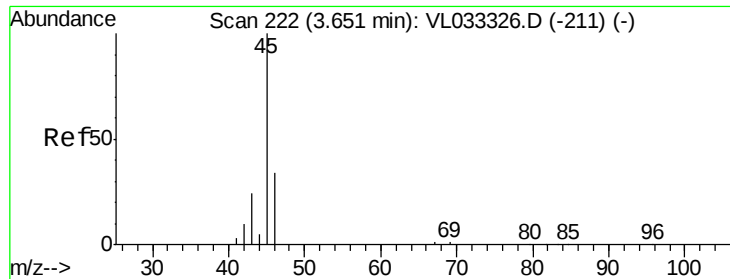
MMDadoda
 3/25/2019 8:28:11 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.066 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion:101 Resp: 966576
 Ion Ratio Lower Upper
 101 100
 151 71.2 56.3 84.5





#13

Ethanol

Concen: 5.497 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 45 Resp: 100947

Ion Ratio Lower Upper

45 100

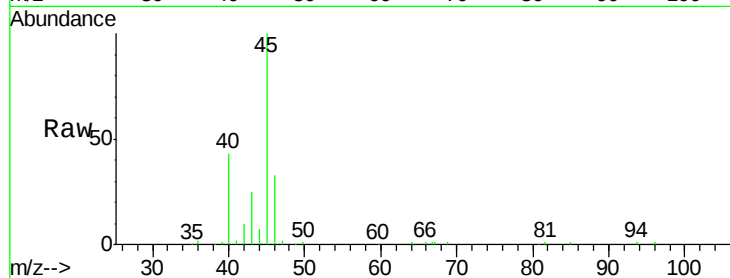
46 36.3 14.9 59.7

Manual Integrations

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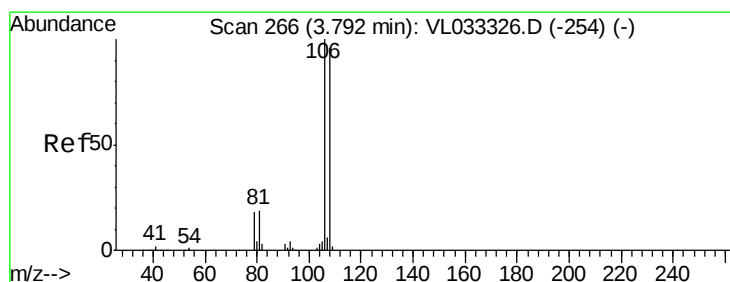
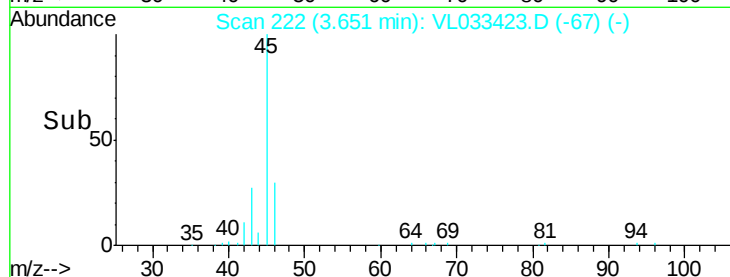
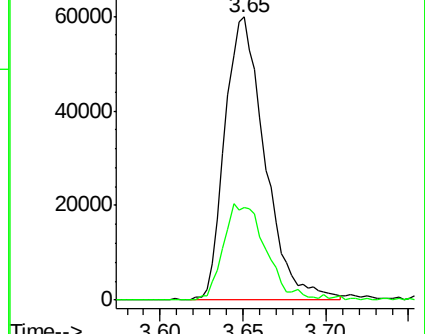
MMDadoda

3/25/2019 8:28:11 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.786 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

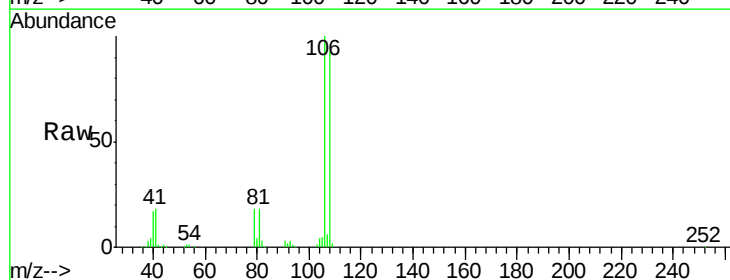
Tgt Ion: 108 Resp: 392666

Ion Ratio Lower Upper

108 100

106 106.1 86.2 129.2

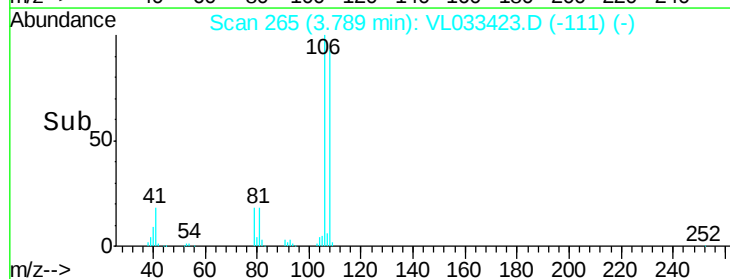
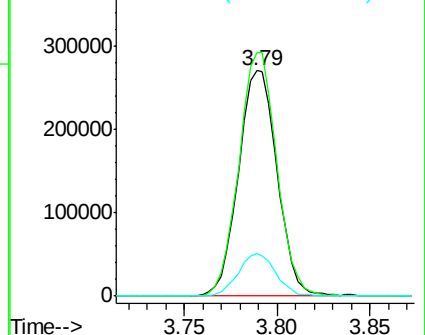
79 18.8 15.4 23.2

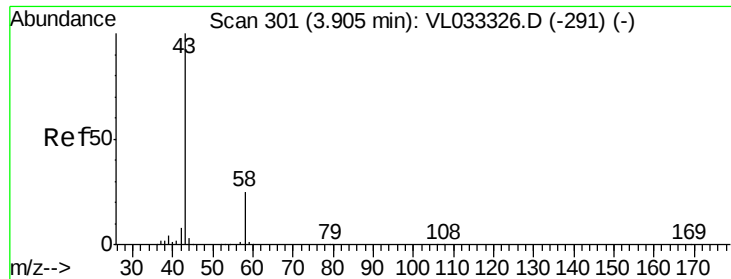


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.528 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 43 Resp: 879680

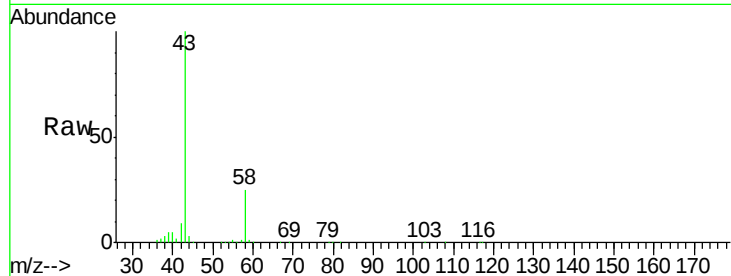
Ion Ratio Lower Upper

43 100

58 25.7 20.4 30.6

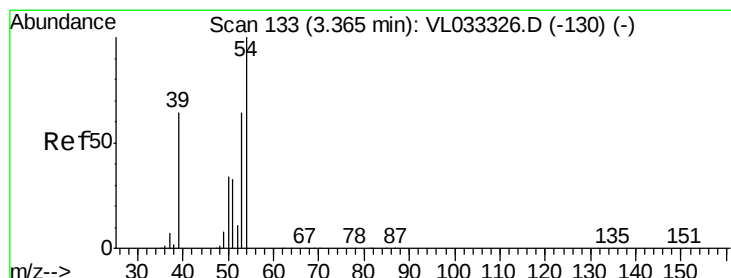
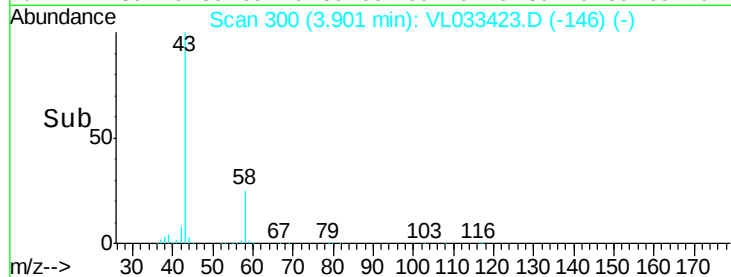
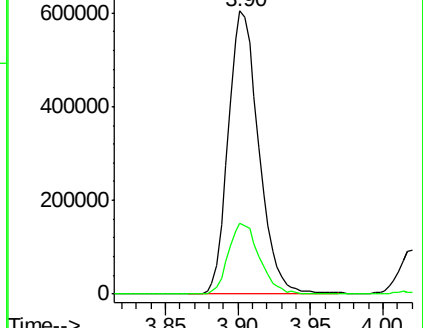
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.237 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033423.D

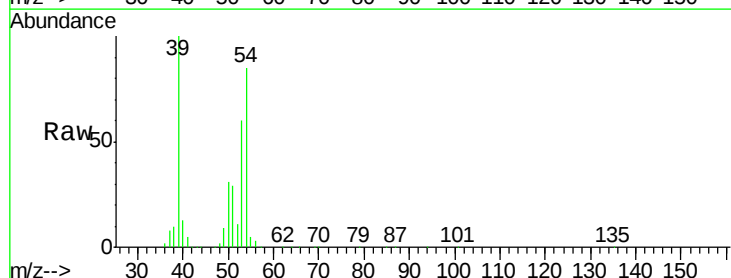
Acq: 21 Mar 2019 19:56

Tgt Ion: 39 Resp: 426505

Ion Ratio Lower Upper

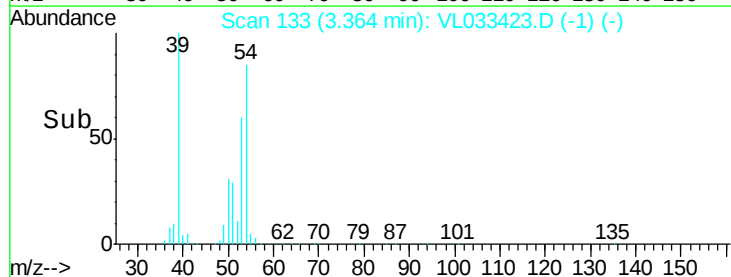
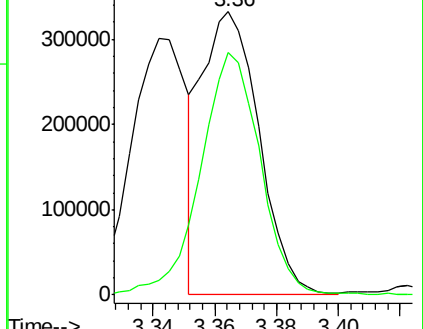
39 100

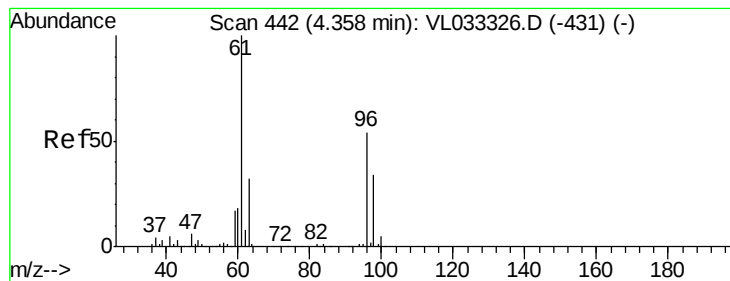
54 90.1 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.245 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 59 Resp: 184939

Ion Ratio Lower Upper

59 100

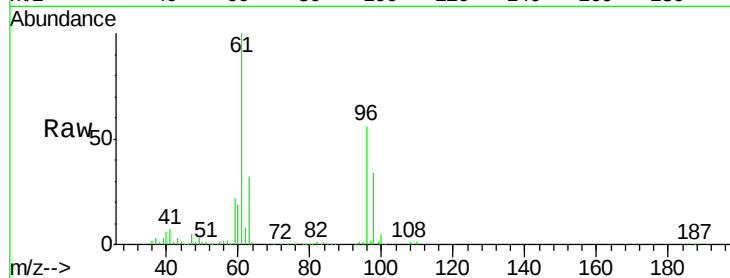
57 9.0 7.7 11.5

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

120000

100000

80000

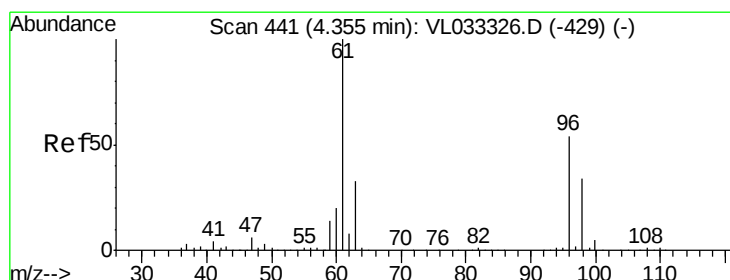
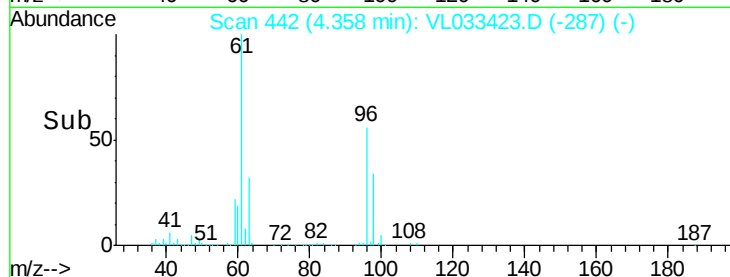
60000

40000

20000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.644 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

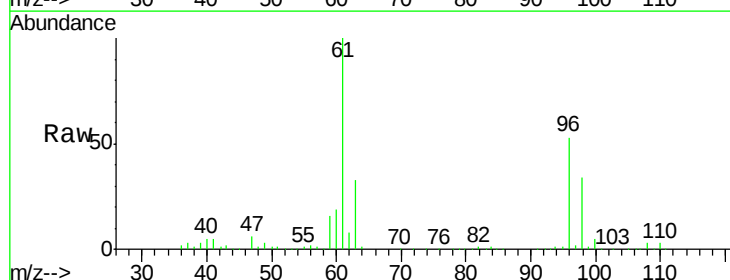
Tgt Ion: 96 Resp: 425085

Ion Ratio Lower Upper

96 100

61 187.7 148.6 222.8

98 64.0 50.3 75.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

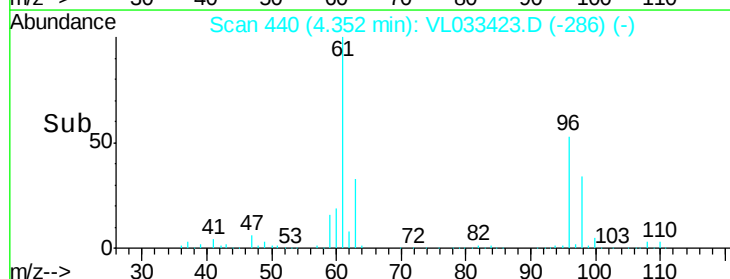
600000

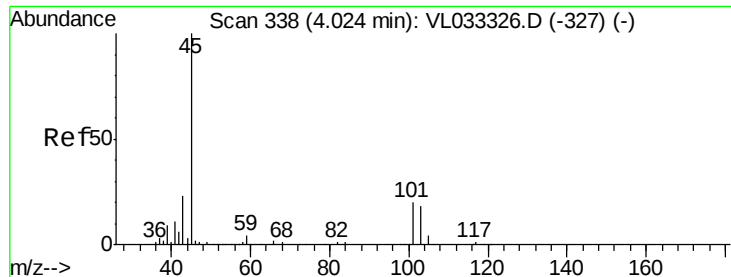
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 11.995 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 45 Resp: 666780

Ion Ratio Lower Upper

45 100

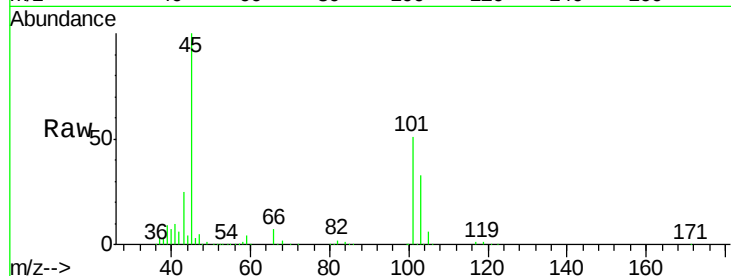
58 2.0 1.5 2.3

Manual Integrations

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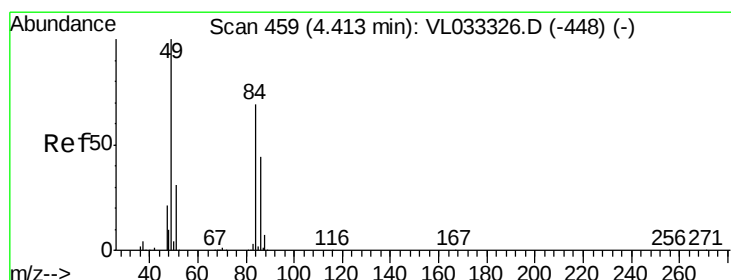
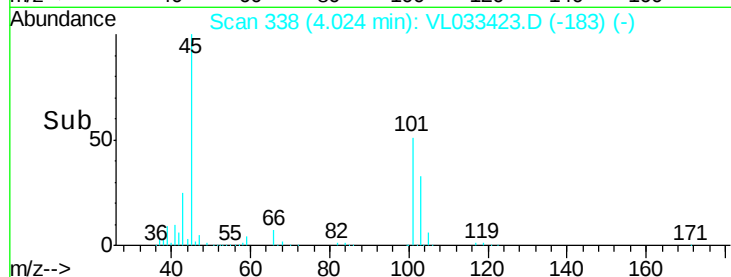
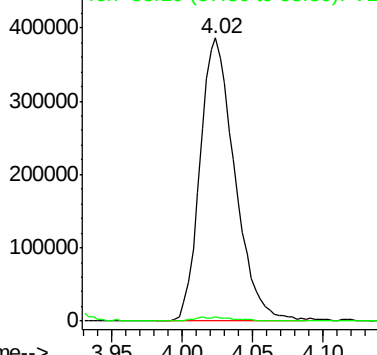
MMDadoda

3/25/2019 8:28:11 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.278 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion: 84 Resp: 353602

Ion Ratio Lower Upper

84 100

49 146.8 115.4 173.0

51 42.8 35.8 53.6

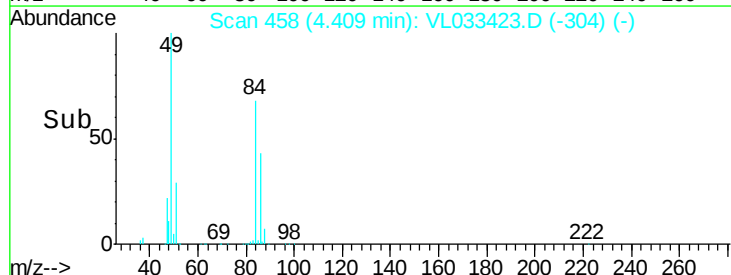
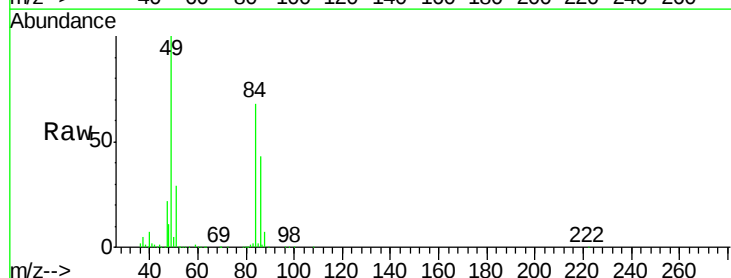
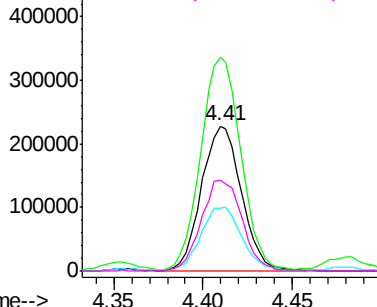
86 63.0 50.6 75.8

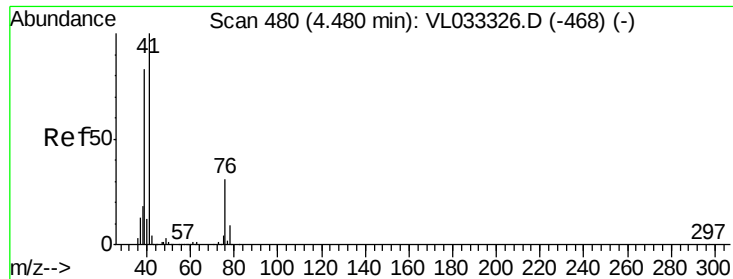
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





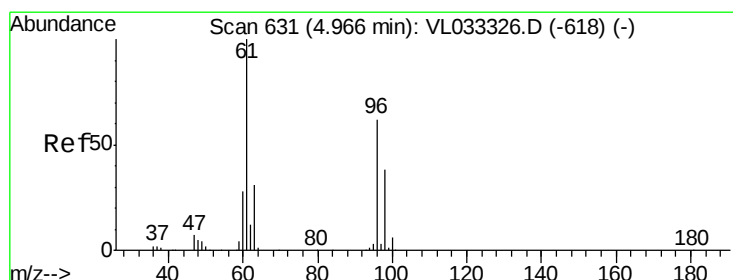
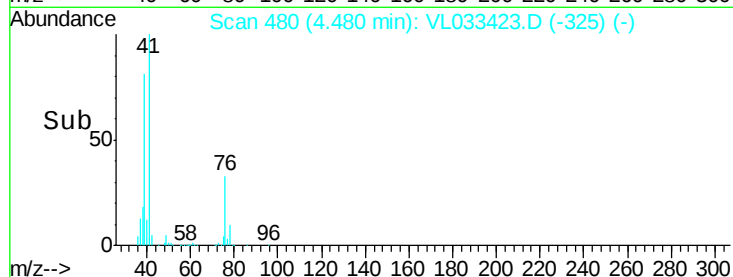
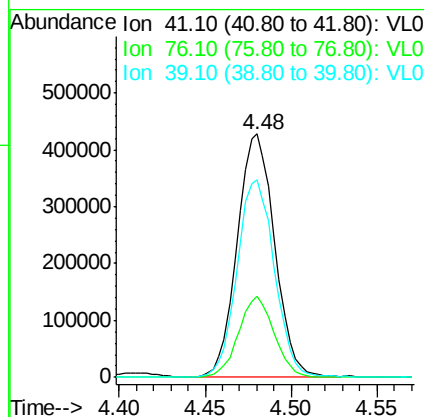
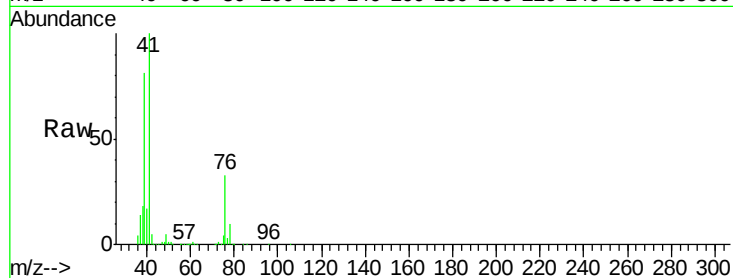
#21
Allvl Chloride
Concen: 11.446 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.6	25.0	37.4
39	81.4	65.9	98.9

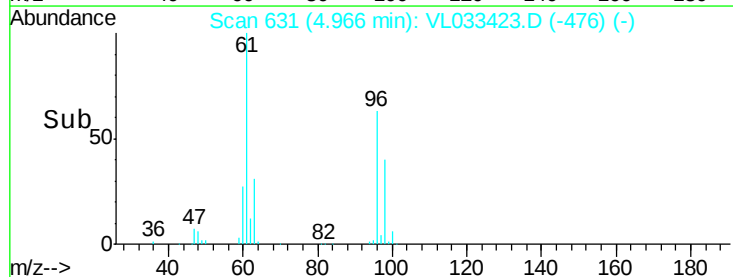
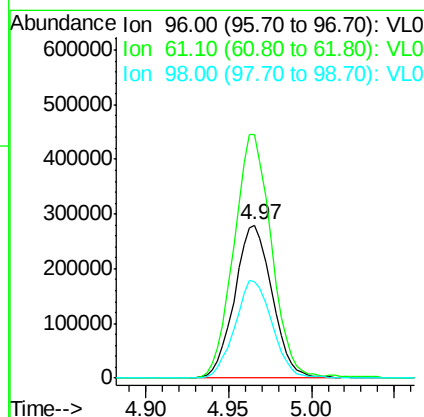
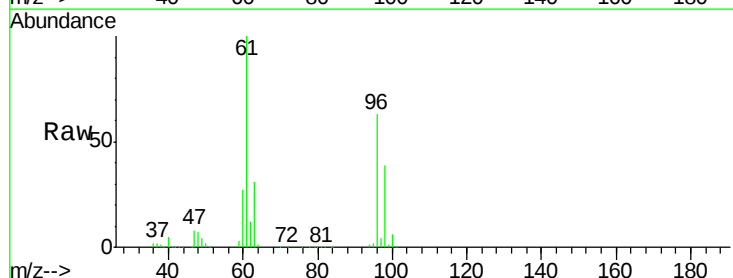
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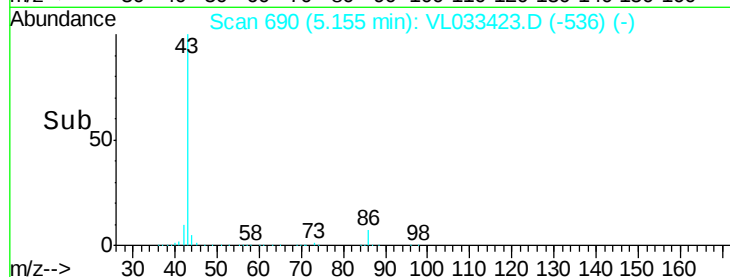
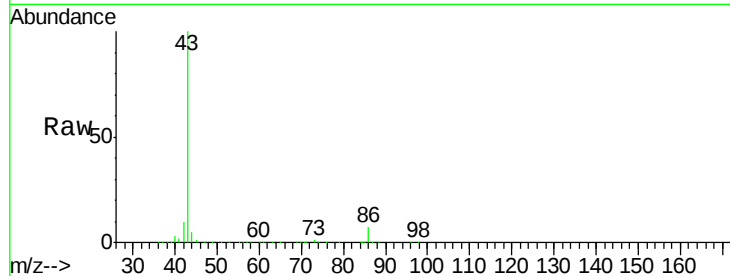
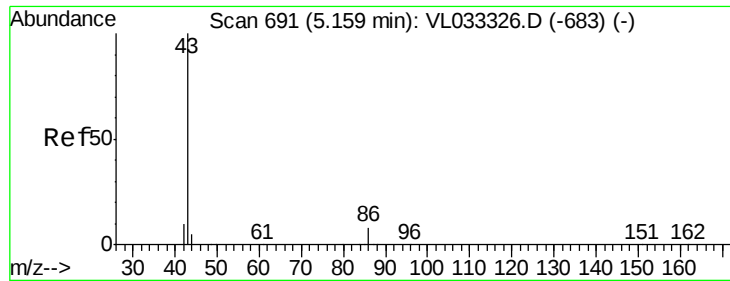
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#22
trans-1,2-Dichloroethene
Concen: 11.428 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.8	130.0	195.0
98	62.7	50.0	75.0





#23

Vinyl Acetate

Concen: 10.813 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tot Ion: 43 Resp: 1462134

Ion Ratio Lower Upper

43 100

86 7.1 6.2 9.2

42 10.0 8.1 12.1

44 5.2 4.1 6.1

Instrument :

MSVOA_L

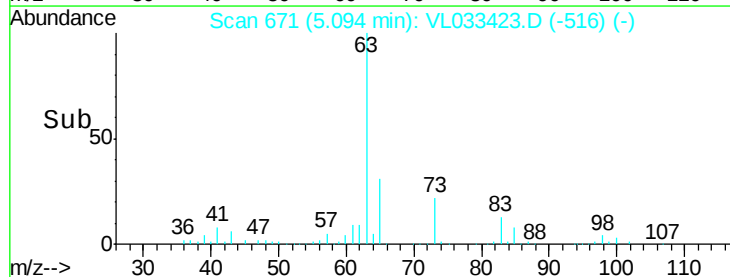
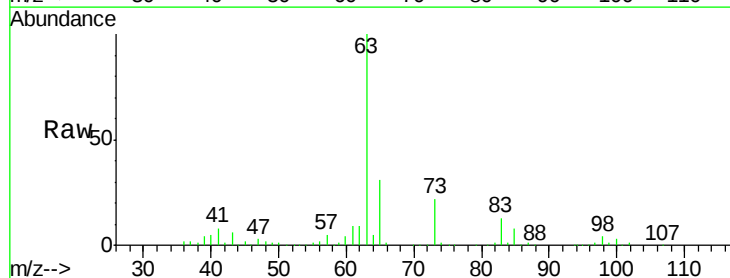
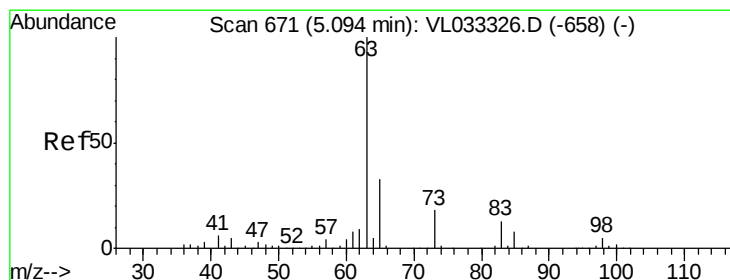
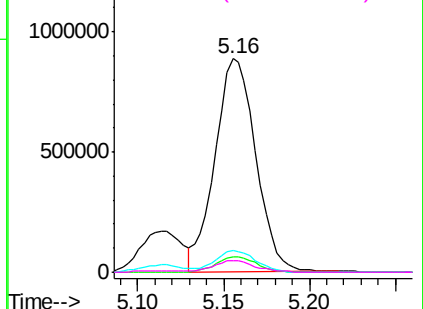
ClientSampleId :

VL0321ABS01

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3/25/2019 8:28:11 AM

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: 10.595 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion: 63 Resp: 1034617

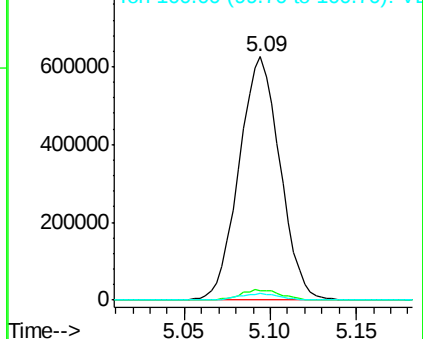
Ion Ratio Lower Upper

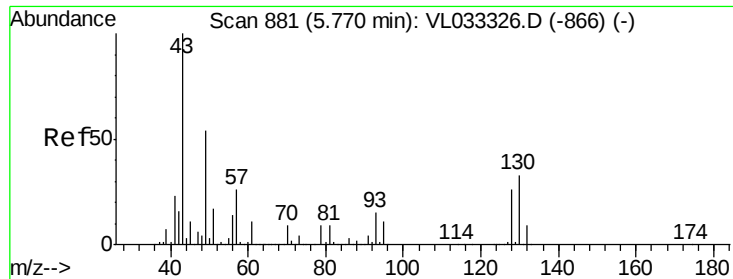
63 100

98 4.1 2.4 7.1

100 2.6 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





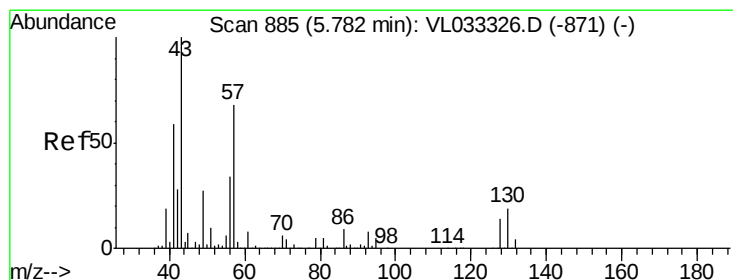
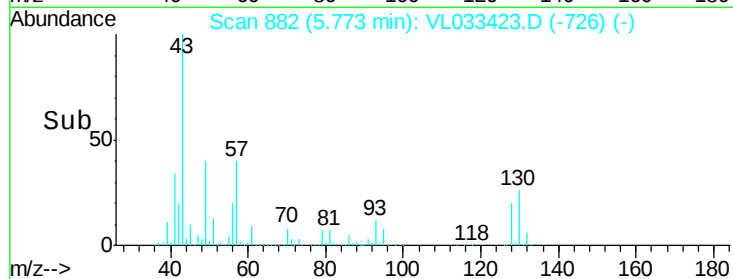
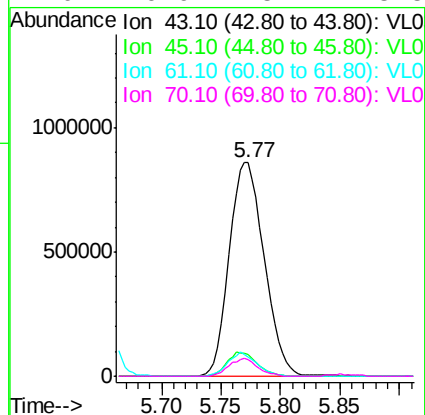
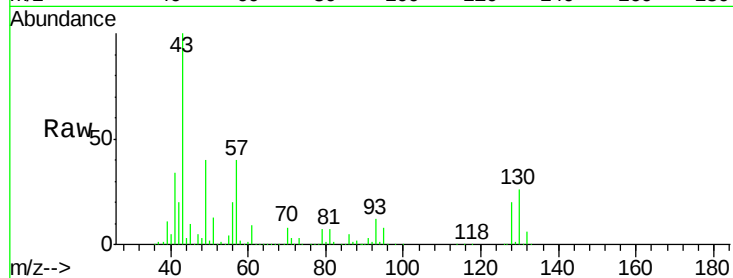
#25
Ethyl Acetate
Concen: 10.273 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.2	7.4	11.2
70	6.9	5.7	8.5

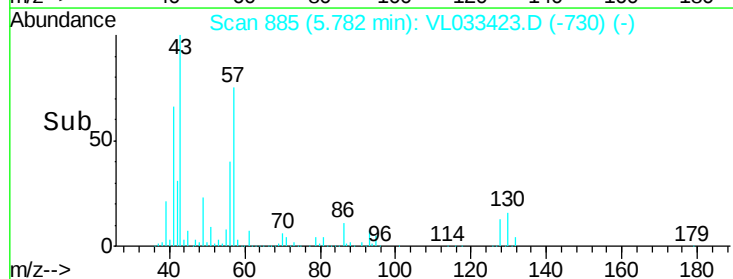
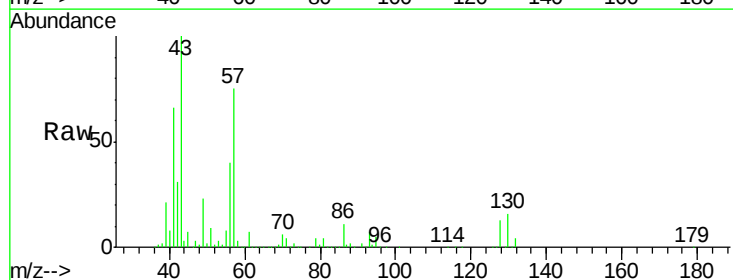
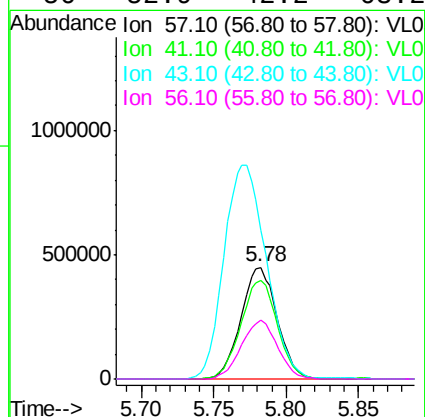
Manual Integrations
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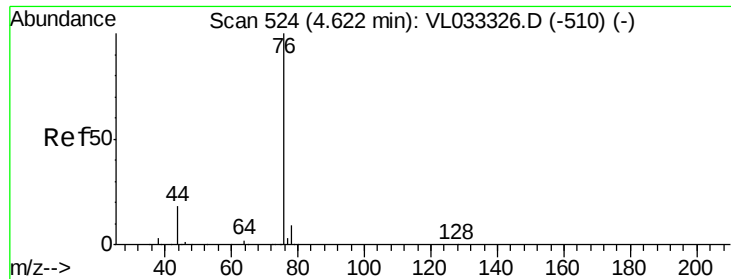
MMDadoda
3/25/2019 8:28:11 AM



#26
Hexane
Concen: 10.184 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.0	70.5	105.7
43	226.4	181.8	272.8
56	52.9	42.2	63.2





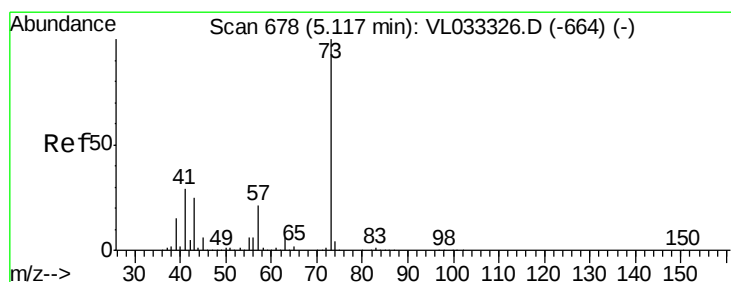
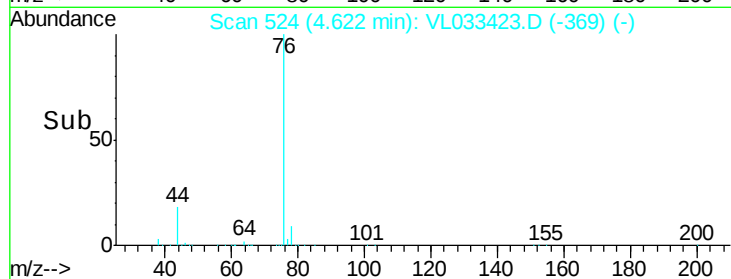
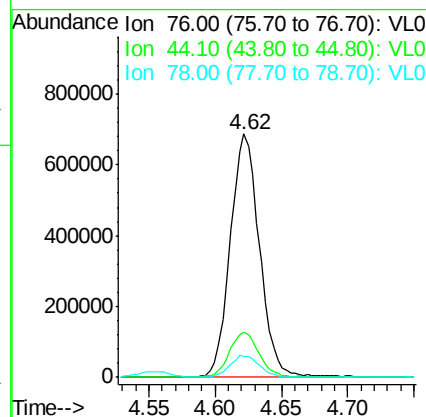
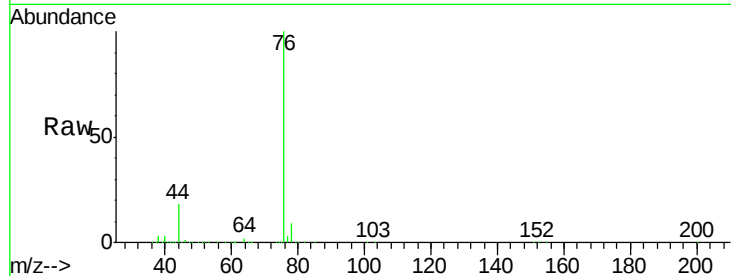
#27
Carbon Disulfide
Concen: 12.018 ppbv
RT: 4.62 min Scan# 524
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.0	15.2	22.8
78	9.2	7.2	10.8

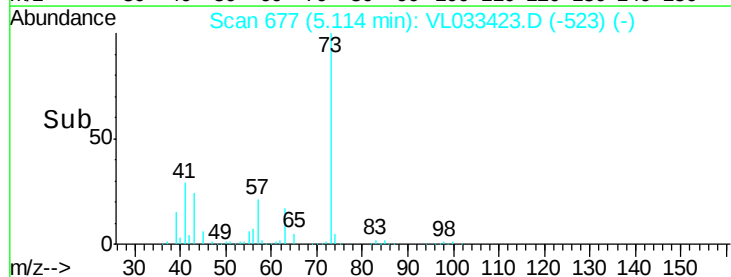
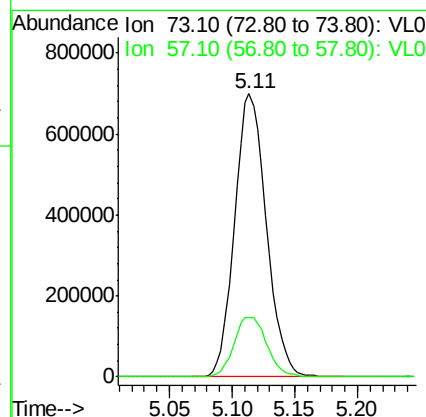
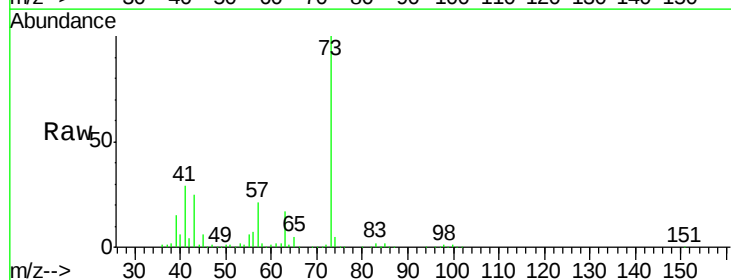
Manual Integrations
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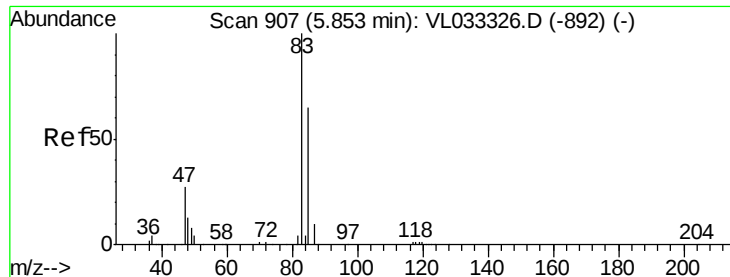
MMDadoda
3/25/2019 8:28:11 AM



#28
Methyl tert-Butyl Ether
Concen: 10.884 ppbv
RT: 5.11 min Scan# 677
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.4	26.0





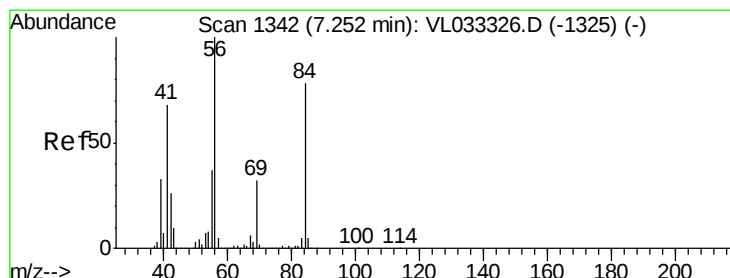
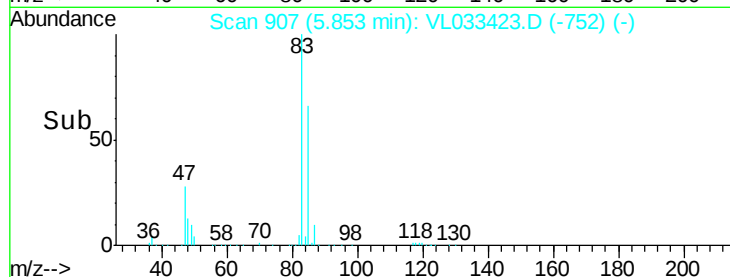
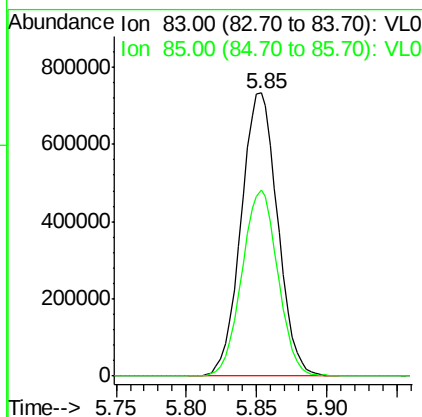
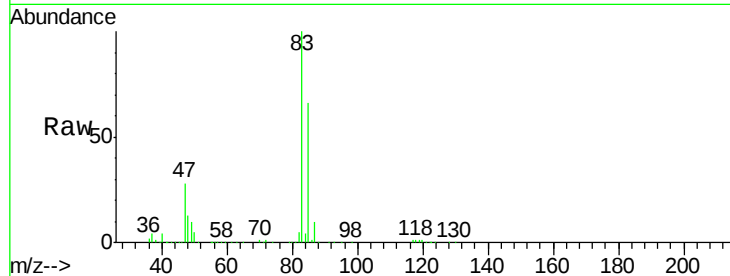
#29
Chloroform
Concen: 10.693 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion: 83 Resp: 1329646
Ion Ratio Lower Upper
83 100
85 65.8 52.0 78.0

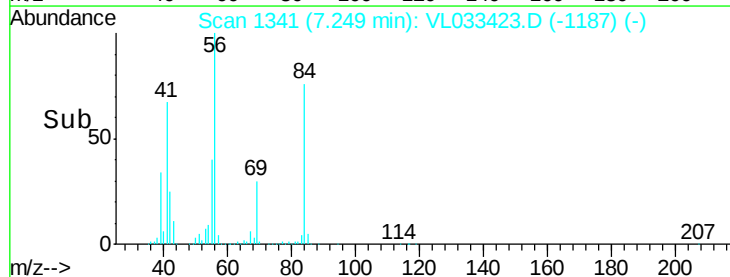
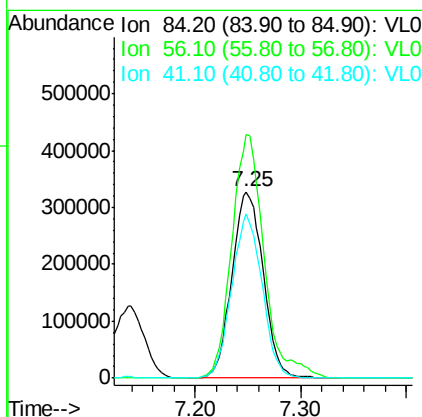
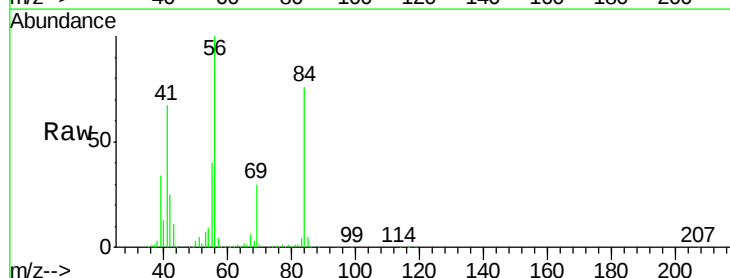
Manual Integrations
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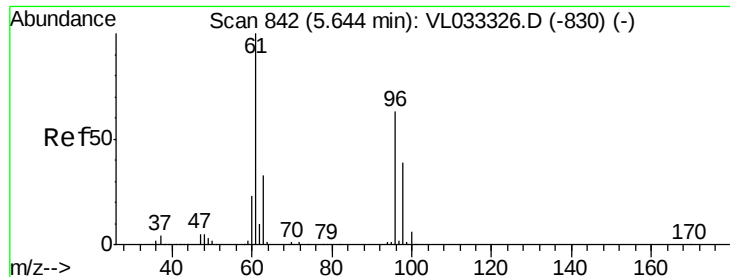
MMDadoda
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#30
Cyclohexane
Concen: 11.054 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion: 84 Resp: 673070
Ion Ratio Lower Upper
84 100
56 135.3 111.3 166.9
41 85.3 69.6 104.4





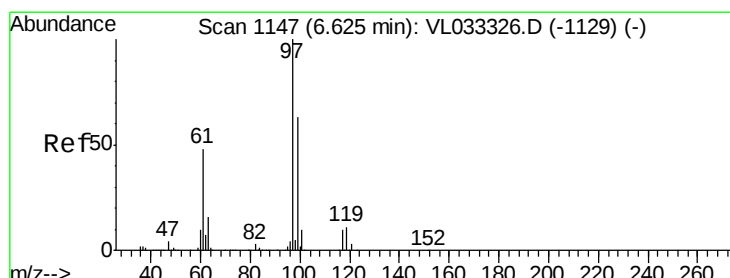
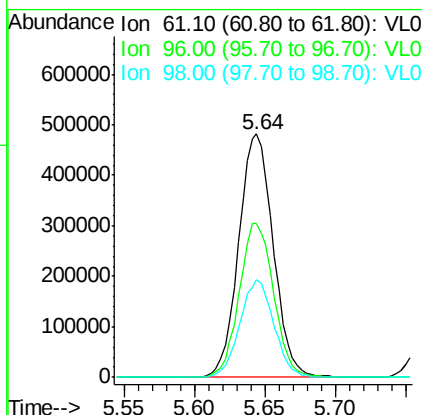
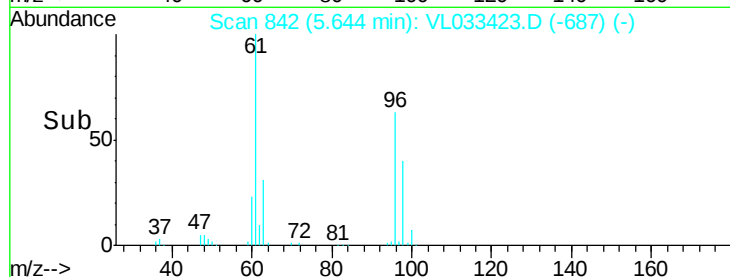
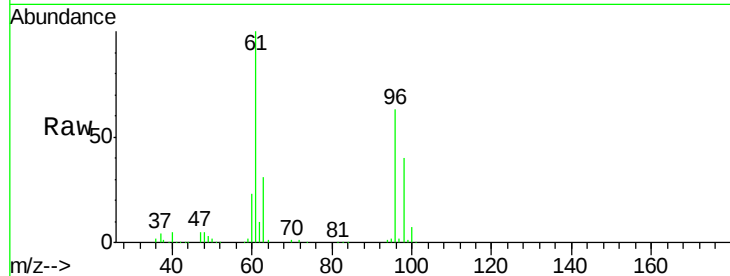
#31
 cis-1,2-Dichloroethene
 Concen: 10.885 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Resp	Lower	Upper
61	100	826525		
96	63.3		50.3	75.5
98	40.1		31.5	47.3

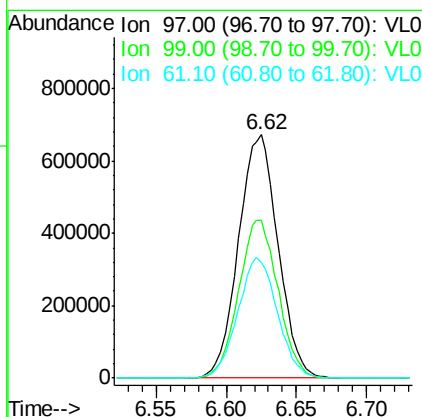
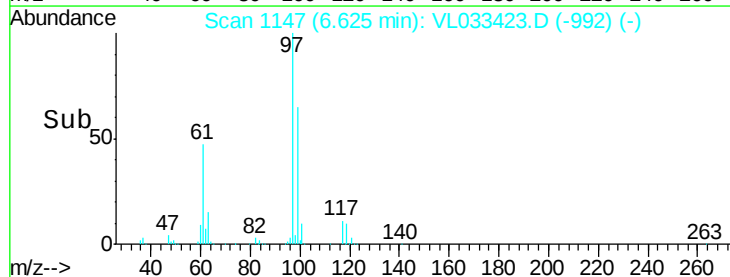
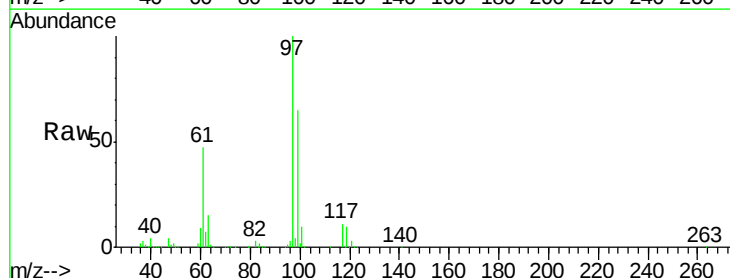
Manual Integrations
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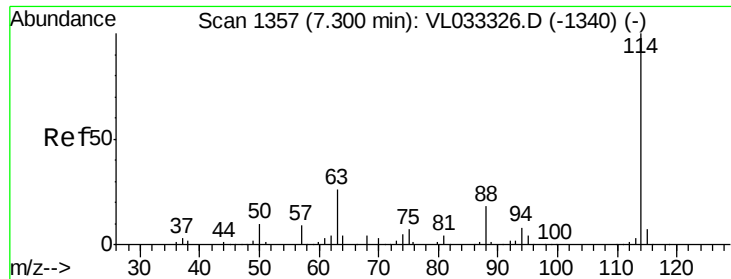
MMDadoda
 3/25/2019 8:28:11 AM



#32
 1,1,1-Trichloroethane
 Concen: 10.828 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1322015		
99	65.0		51.0	76.6
61	49.5		39.3	58.9





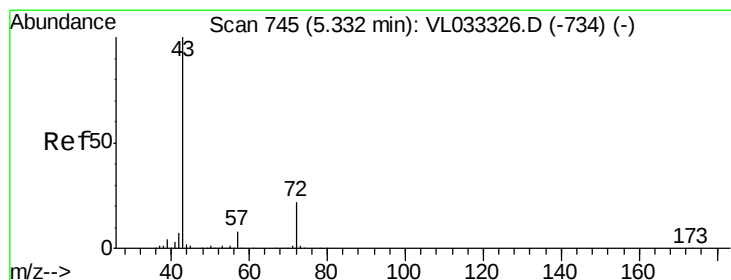
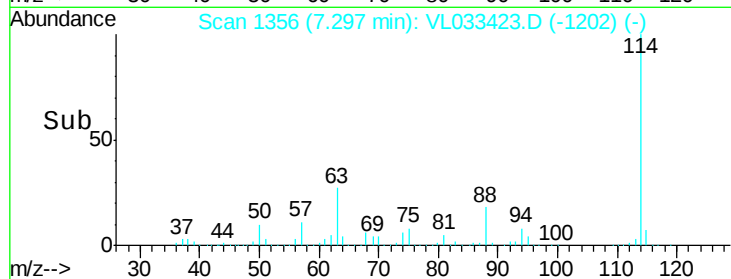
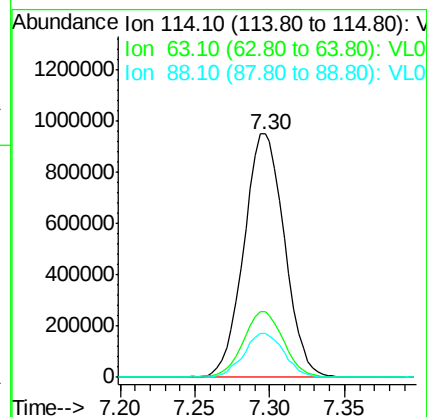
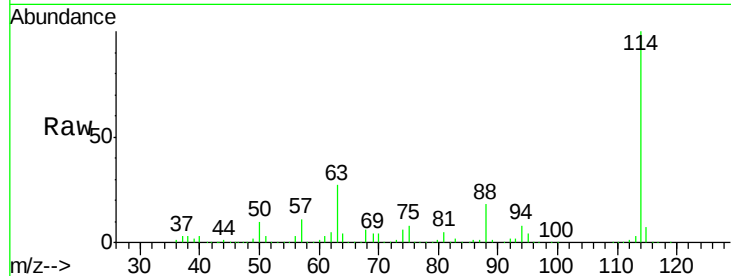
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.4	32.2
88	18.1	14.5	21.7

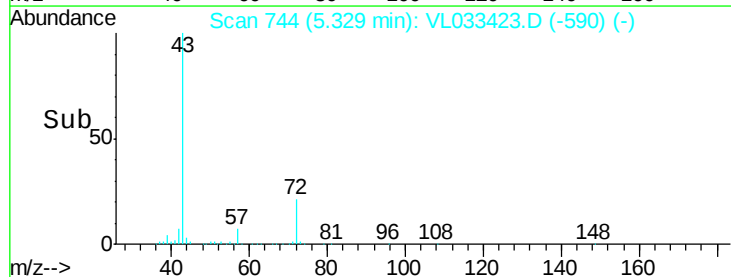
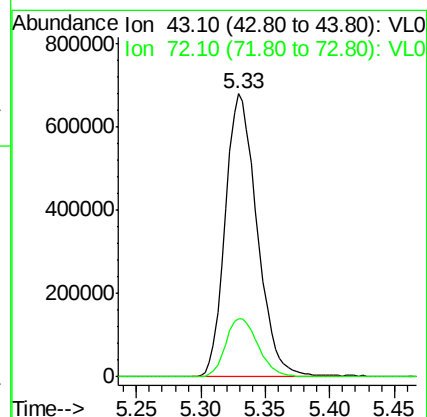
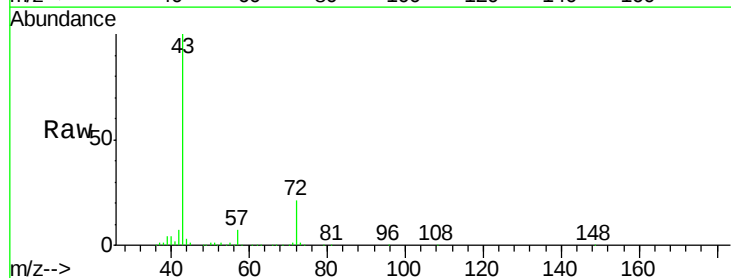
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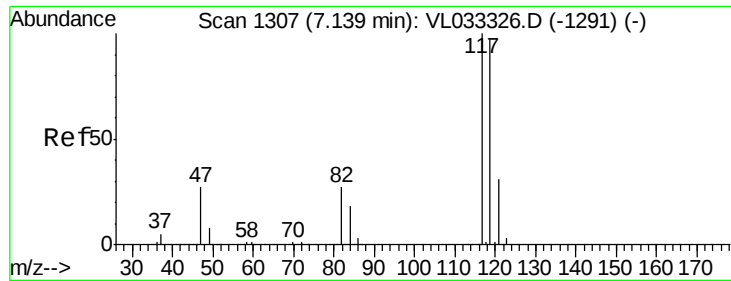
MMDadoda
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#34
 2-Butanone
 Concen: 9.836 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.7	26.5





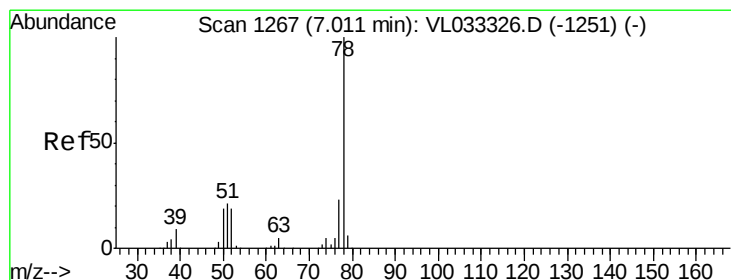
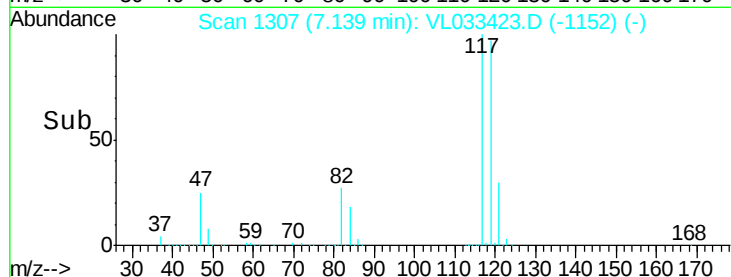
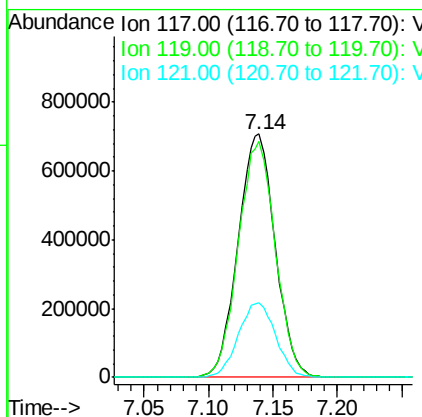
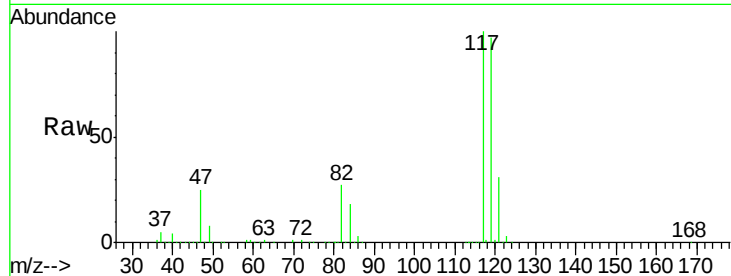
#35
Carbon Tetrachloride
Concen: 11.188 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion:117 Resp: 1414800
Ion Ratio Lower Upper
117 100
119 96.9 77.4 116.0
121 30.6 24.9 37.3

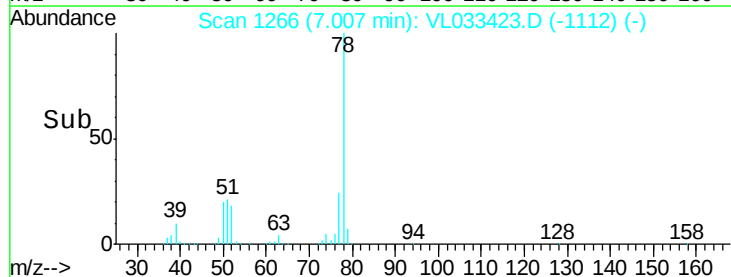
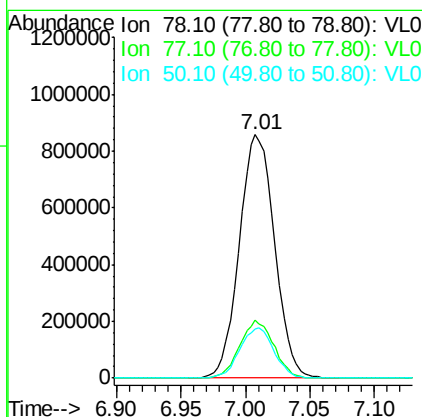
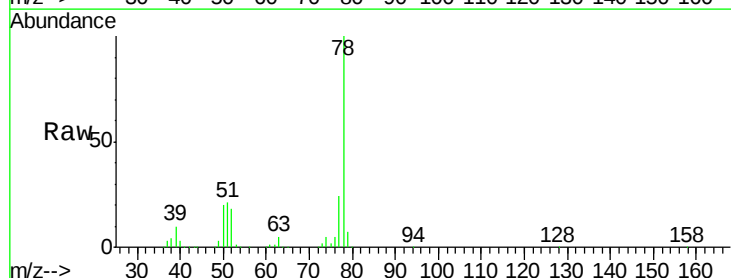
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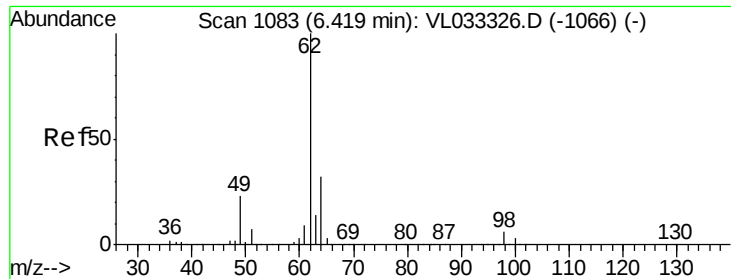
MMDadoda
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#36
Benzene
Concen: 10.172 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion: 78 Resp: 1632954
Ion Ratio Lower Upper
78 100
77 23.8 18.1 27.1
50 19.9 15.2 22.8





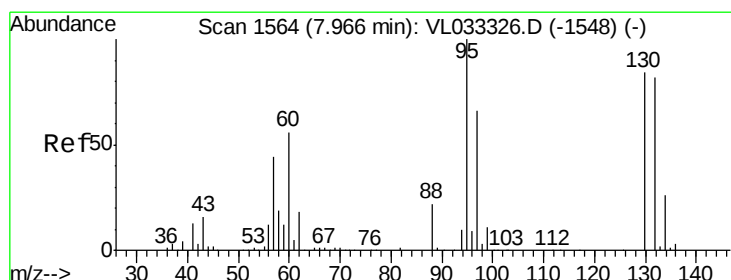
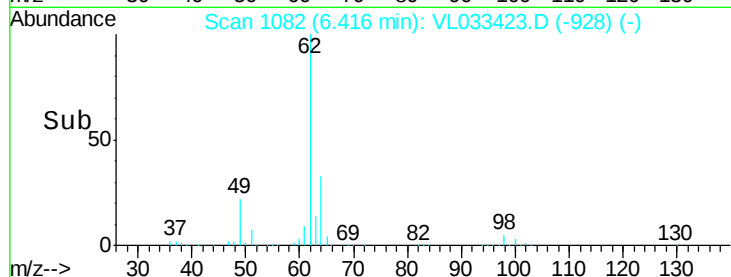
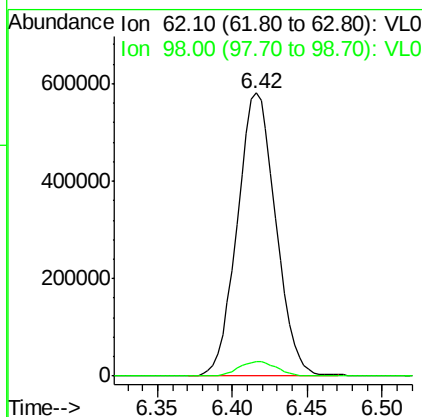
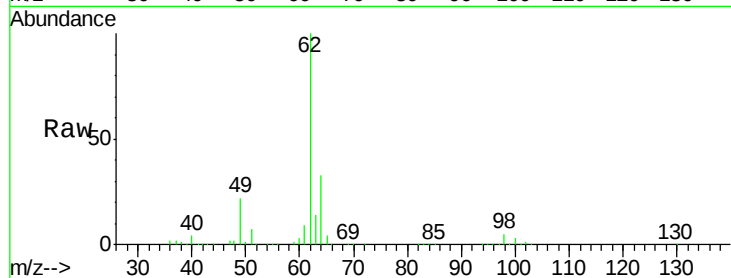
#37
 1,2-Dichloroethane
 Concen: 10.263 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion: 62 Resp: 1041699
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.5 6.7

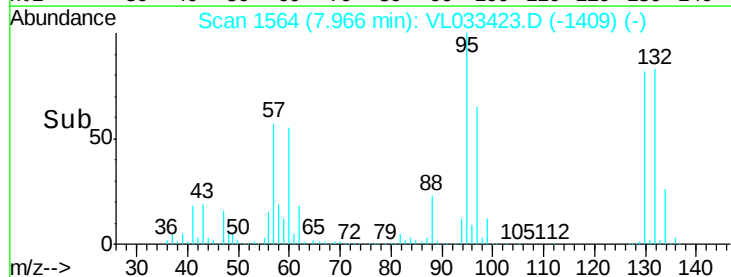
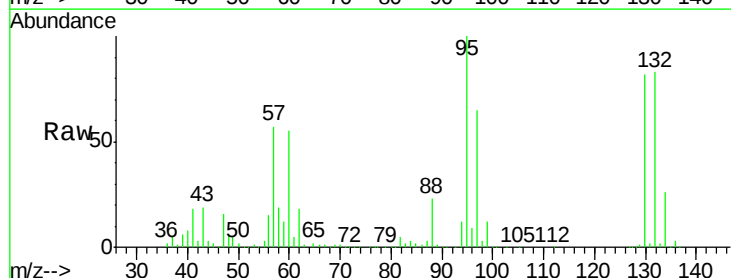
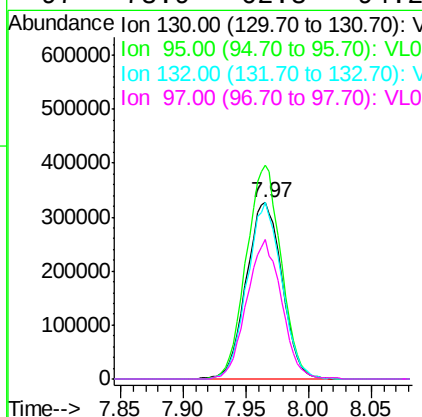
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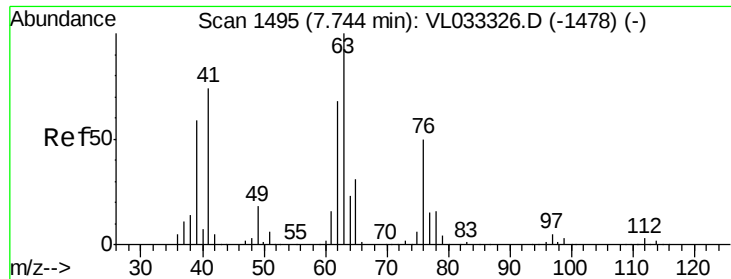
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#38
 Trichloroethene
 Concen: 10.683 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion:130 Resp: 648974
 Ion Ratio Lower Upper
 130 100
 95 121.3 95.2 142.8
 132 100.6 77.7 116.5
 97 78.9 62.8 94.2





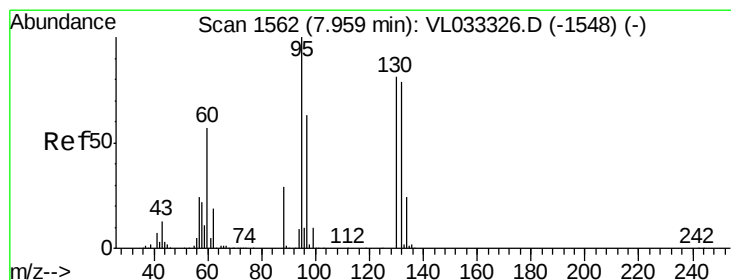
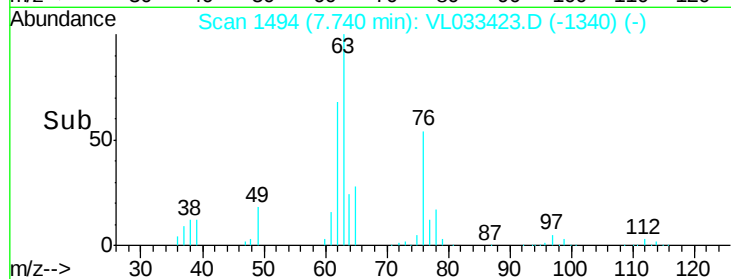
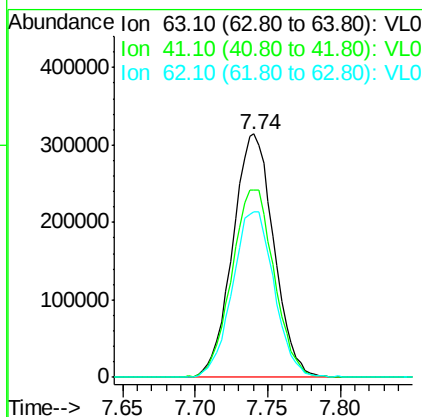
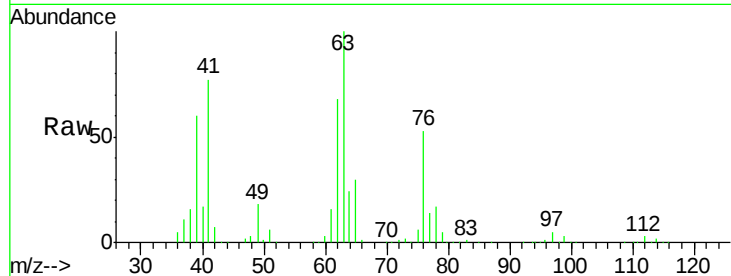
#39
 1,2-Dichloropropane
 Concen: 10.281 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.7	59.5	89.3
62	67.7	54.7	82.1

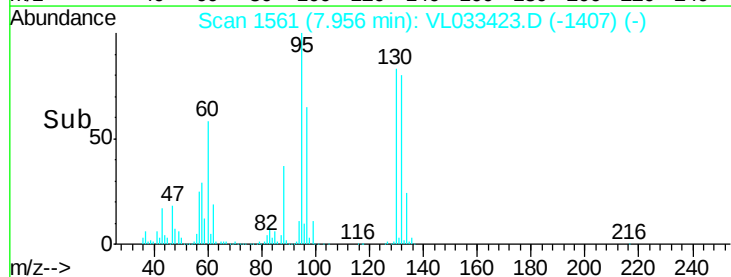
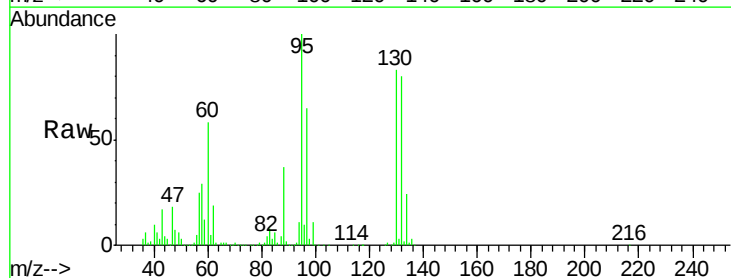
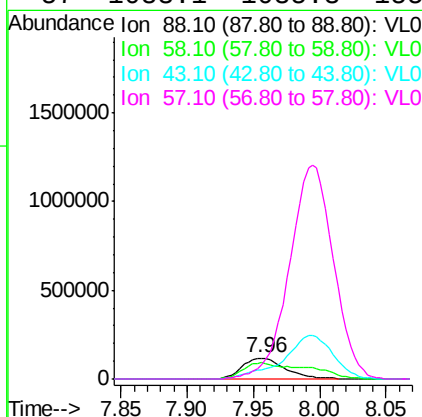
Manual Integrations
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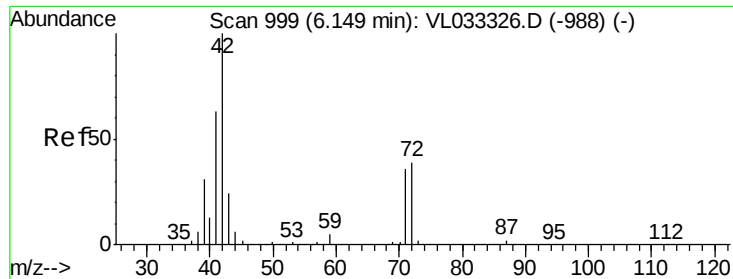
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#40
 1,4-Dioxane
 Concen: 12.258 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	124.7	107.9	161.9
43	246.1	230.8	346.2
57	1083.1	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 10.134 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

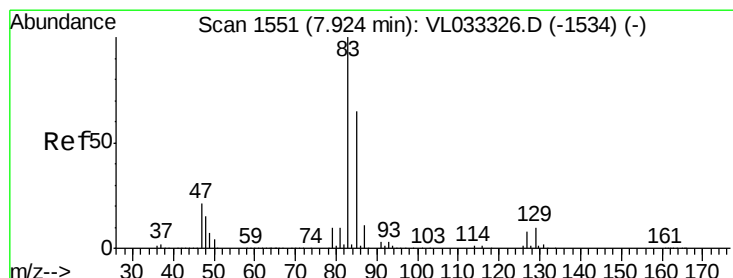
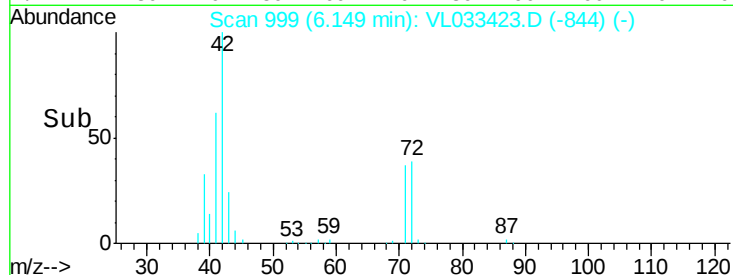
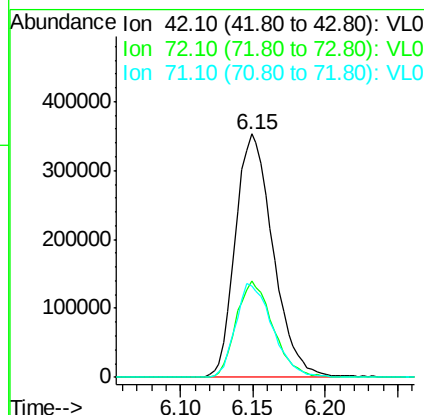
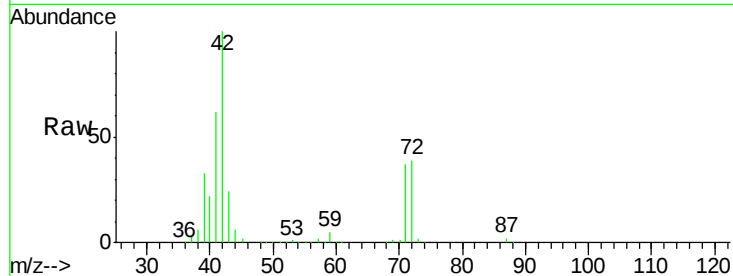
ClientSampleId :

VL0321ABS01

Tot Ion:	42	Resp:	637094
Ion	Ratio	Lower	Upper
42	100		
72	38.7	31.6	47.4
71	37.9	29.9	44.9

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#42

Bromodichloromethane

Concen: 10.917 ppbv

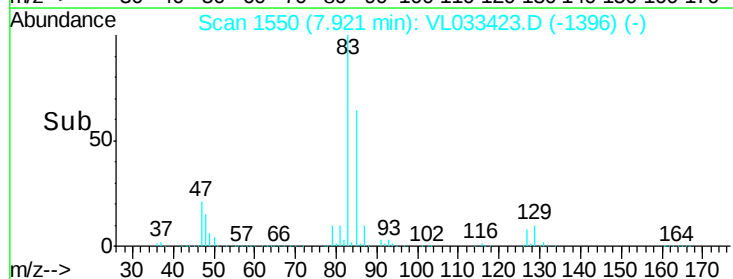
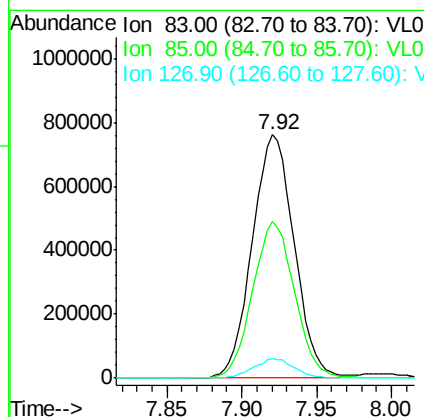
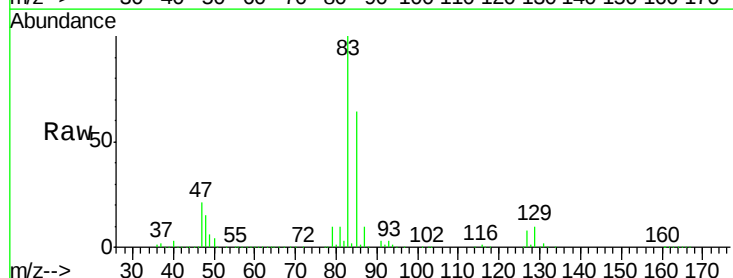
RT: 7.92 min Scan# 1550

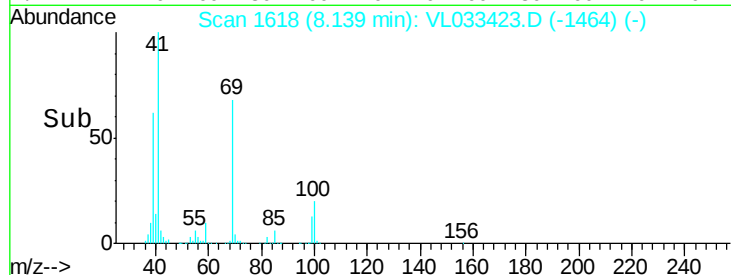
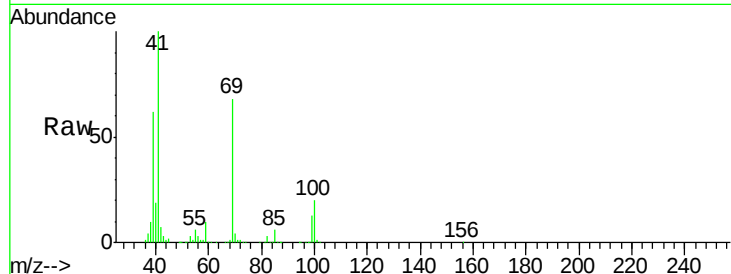
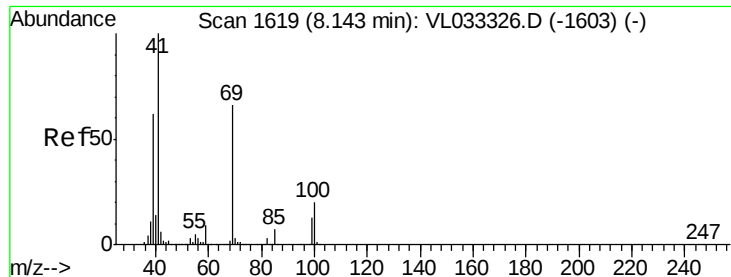
Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion:	83	Resp:	1485663
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.8	77.6
127	7.9	6.2	9.2





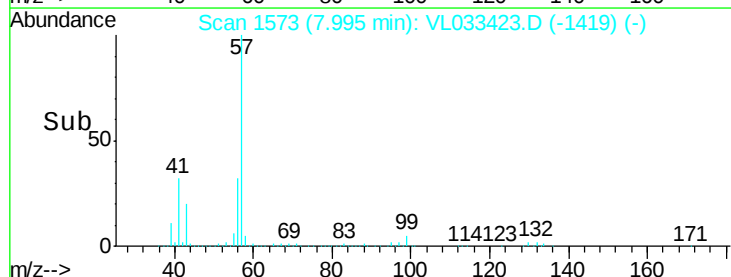
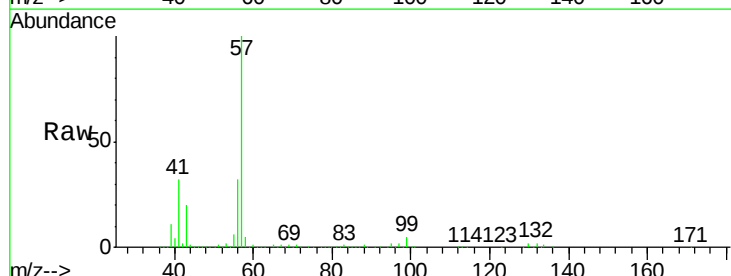
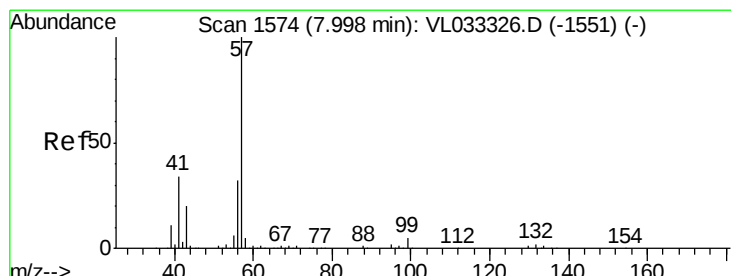
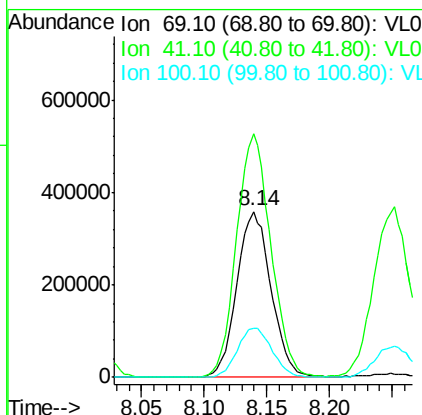
#43
Methvl Methacrylate
Concen: 10.850 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tot Ion	Ion	Ratio	Lower	Upper
69.10	69	100		
41.10	41	147.4	119.5	179.3
100.10	100	30.2	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

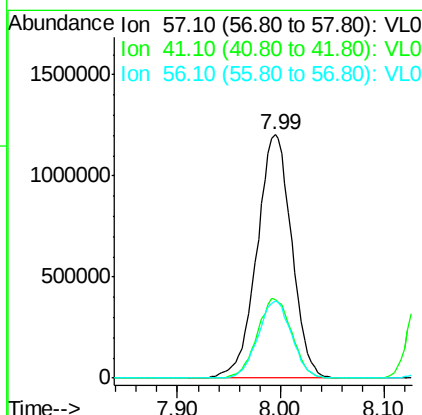
Manual Integrations
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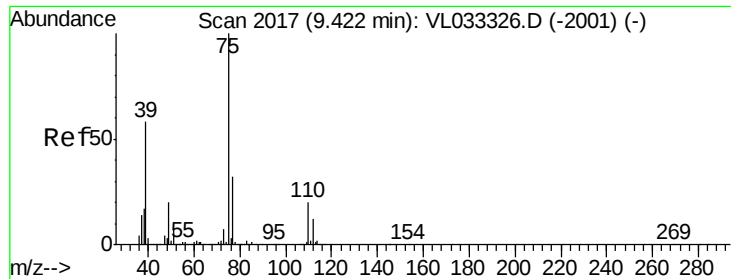
MMDadoda
3/25/2019 8:28:11 AM



#44
2,2,4-Trimethylpentane
Concen: 10.558 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion	Ion	Ratio	Lower	Upper
57.10	57	100		
41.10	41	32.6	26.0	39.0
56.10	56	30.8	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 11.876 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 75 Resp: 916464

Ion Ratio Lower Upper

75 100

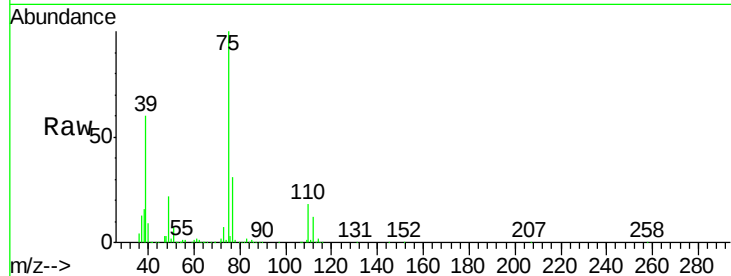
77 31.2 25.5 38.3

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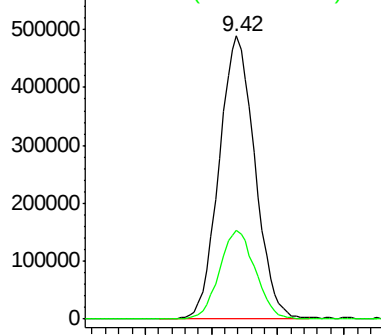
MMDadoda

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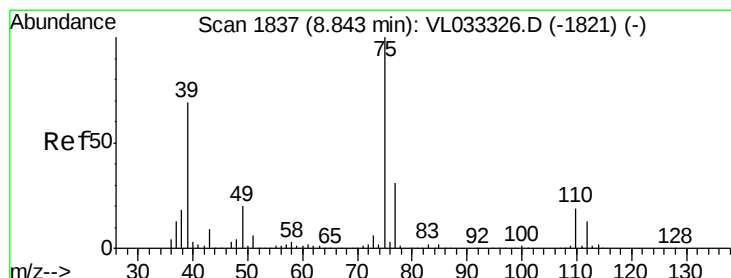
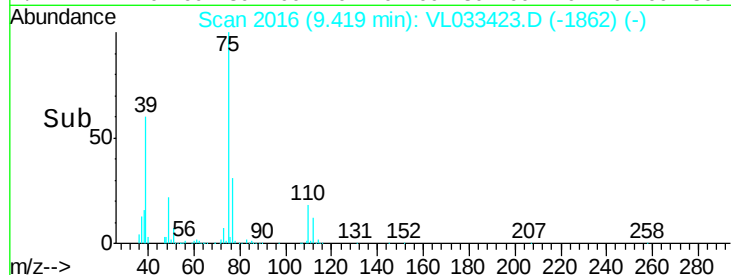


Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.225 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

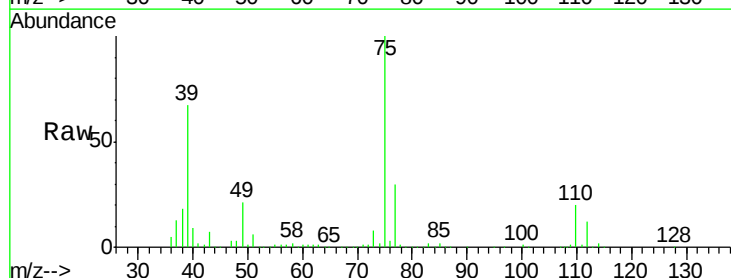
Tgt Ion: 75 Resp: 1019972

Ion Ratio Lower Upper

75 100

39 67.4 55.0 82.6

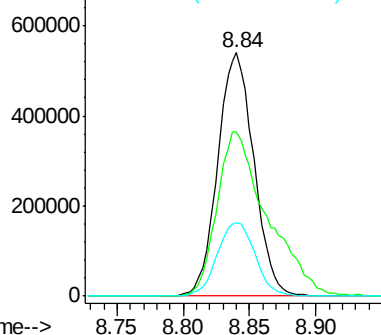
77 30.0 24.5 36.7



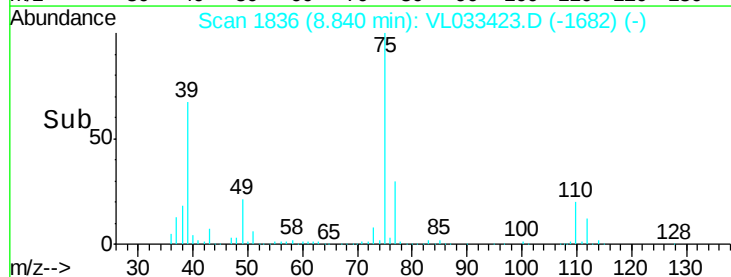
Abundance Ion 75.00 (74.70 to 75.70): VL0

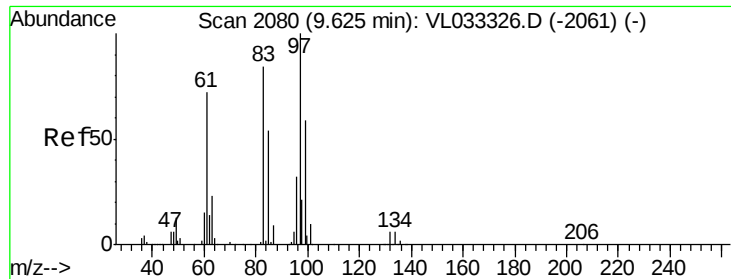
Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



Time-->





#47

1,1,2-Trichloroethane

Concen: 10.447 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. -0.01 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 97 Resp: 693891

Ion Ratio Lower Upper

97 100

83 87.0 67.4 101.0

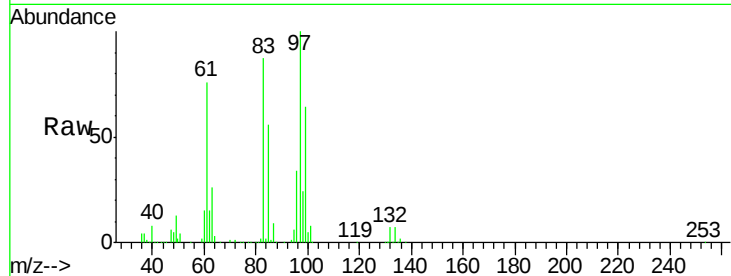
85 55.6 43.0 64.4

99 63.8 47.0 70.6

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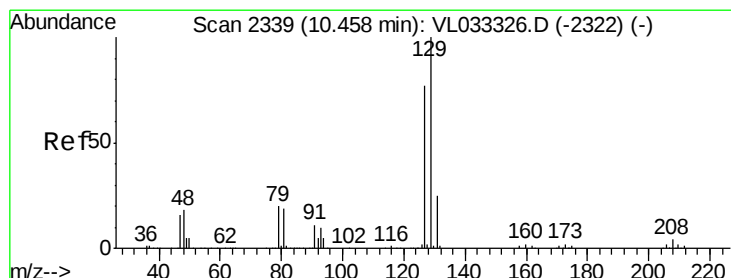
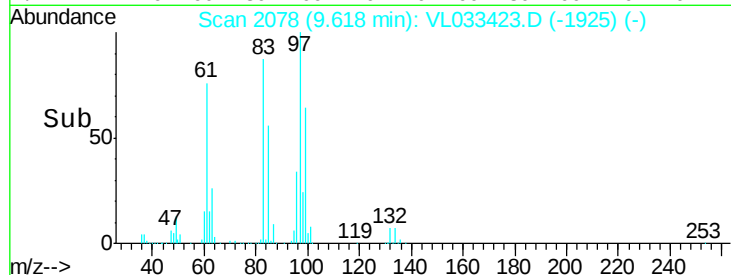
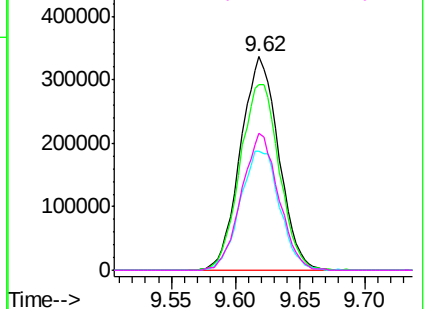
Abundance

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: 13.142 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. -0.00 min

Lab File: VL033423.D

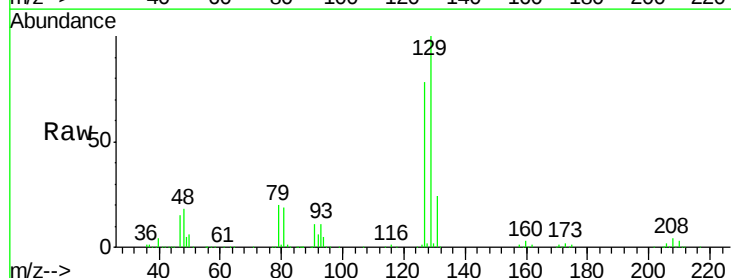
Acq: 21 Mar 2019 19:56

Tgt Ion: 129 Resp: 1463998

Ion Ratio Lower Upper

129 100

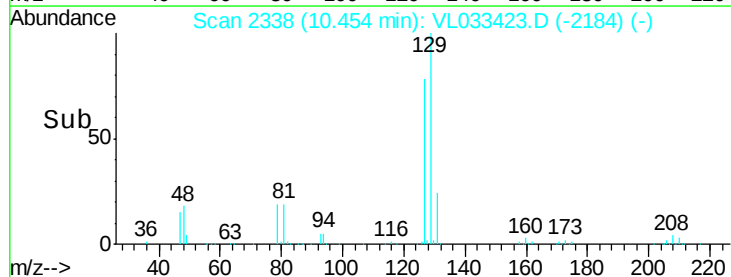
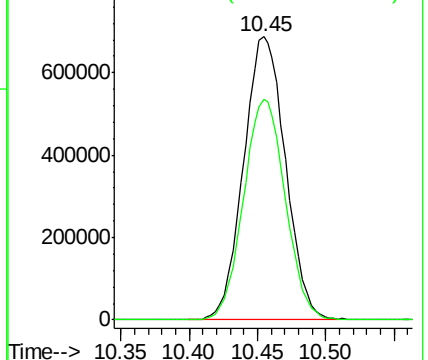
127 77.8 38.9 116.6

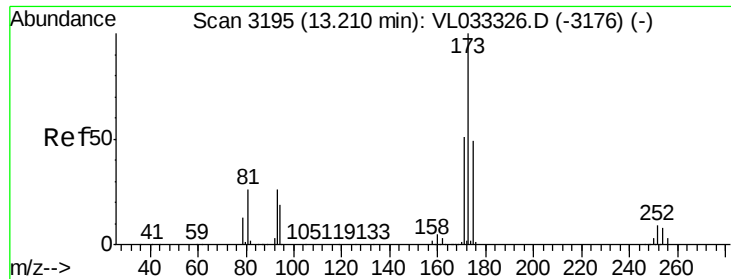


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





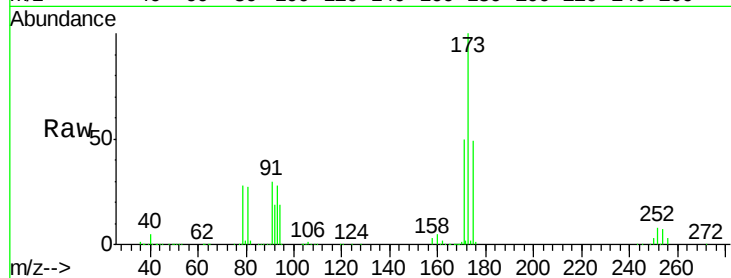
#49
Bromoform
Concen: 12.261 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

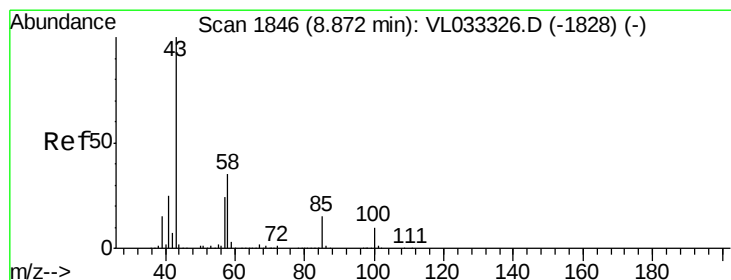
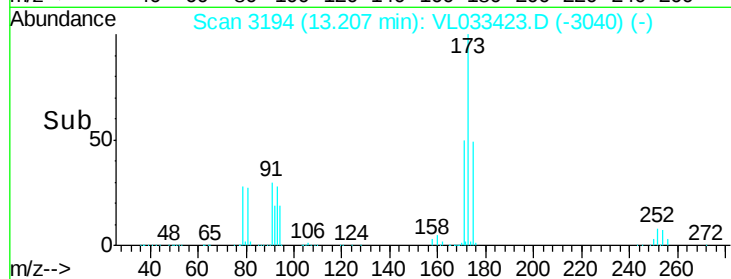
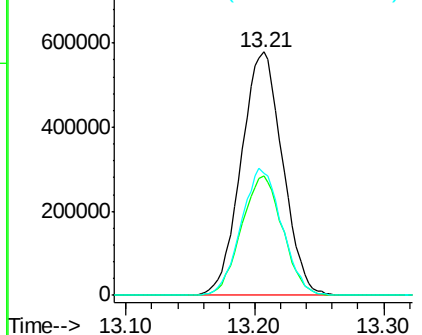
Tot Ion:173 Resp: 1295645
Ion Ratio Lower Upper
173 100
175 48.8 39.0 58.6
171 51.5 41.7 62.5

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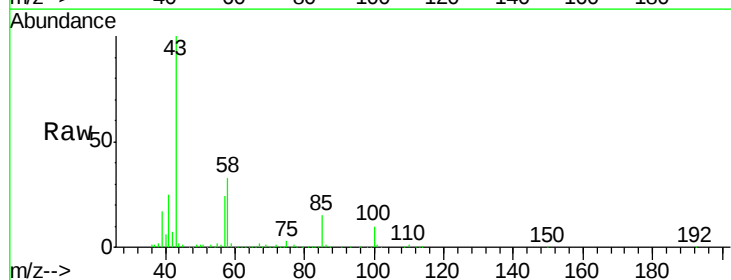


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

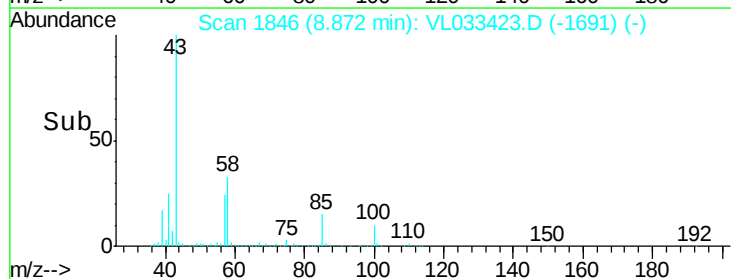
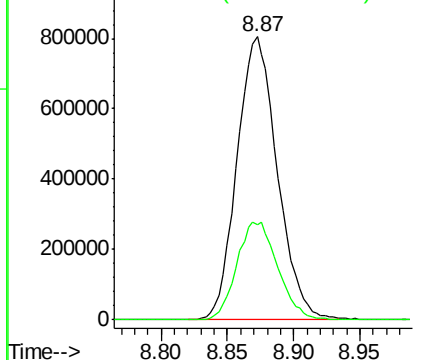


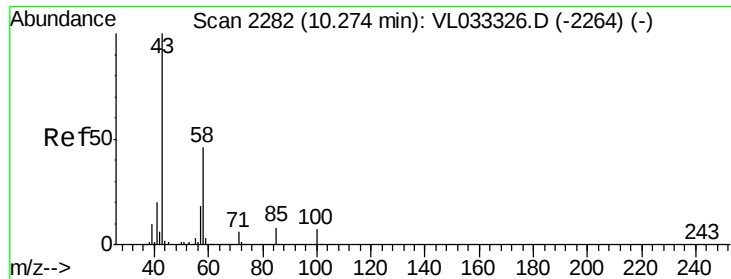
#50
4-Methyl-2-Pentanone
Concen: 10.196 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion: 43 Resp: 1696554
Ion Ratio Lower Upper
43 100
58 35.3 28.4 42.6



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





#51

2-Hexanone

Concen: 11.992 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 43 Resp: 1539439

Ion Ratio Lower Upper

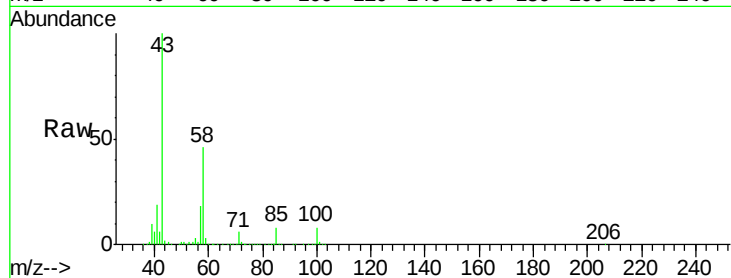
43 100

58 47.3 38.0 57.0

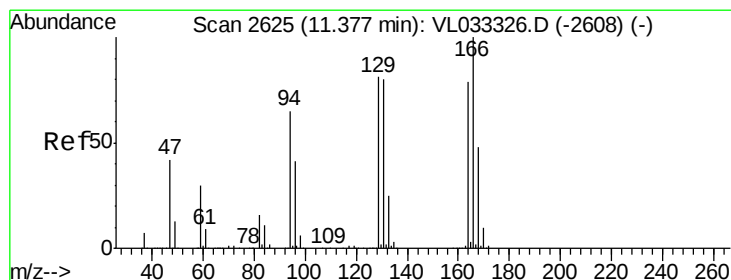
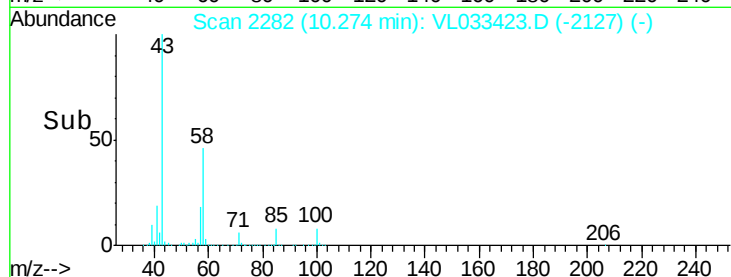
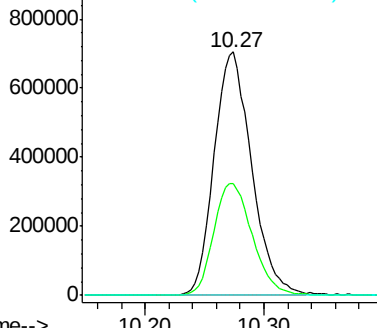
98 0.3 0.1 0.1#

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



#52

Tetrachloroethene

Concen: 10.764 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion: 164 Resp: 719893

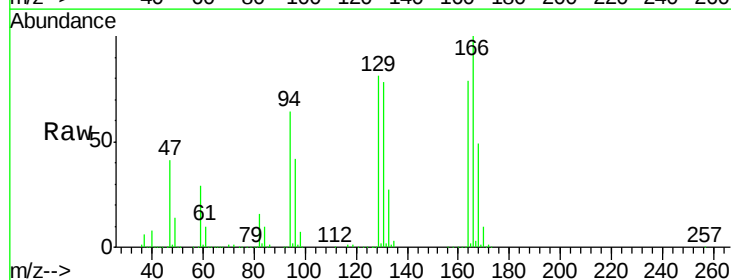
Ion Ratio Lower Upper

164 100

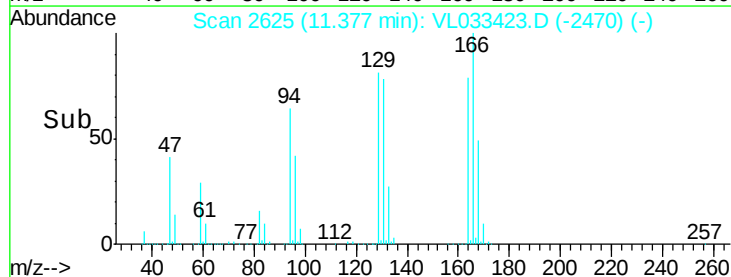
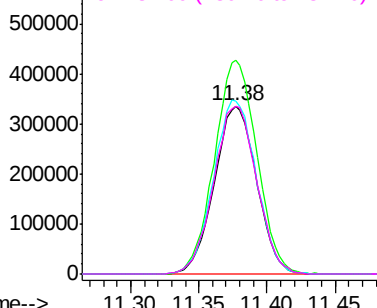
166 127.3 101.5 152.3

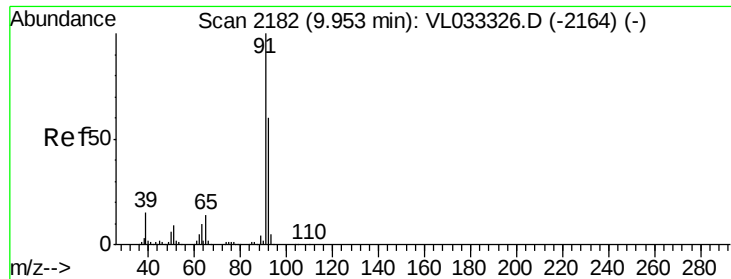
129 103.3 82.2 123.2

131 99.8 81.1 121.7



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: 12.359 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 91 Resp: 2254374

Ion Ratio Lower Upper

91 100

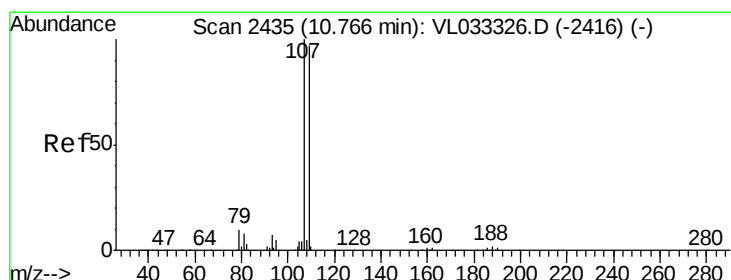
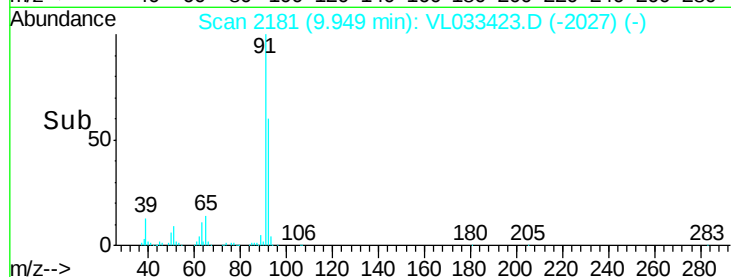
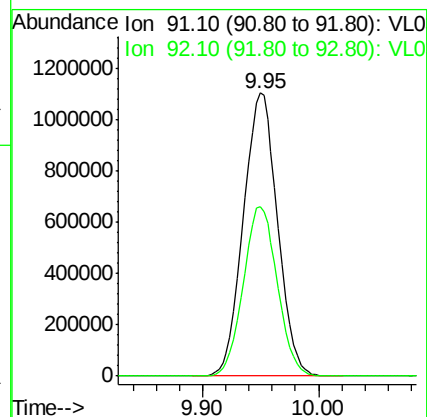
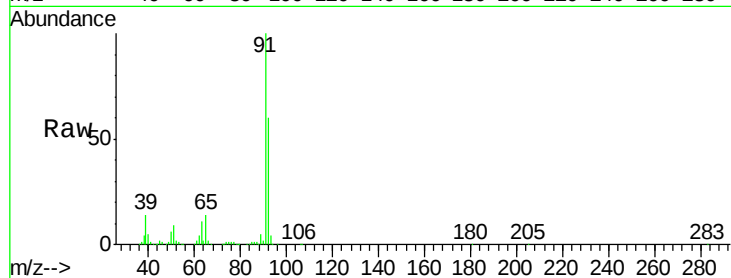
92 59.7 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 11.425 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033423.D

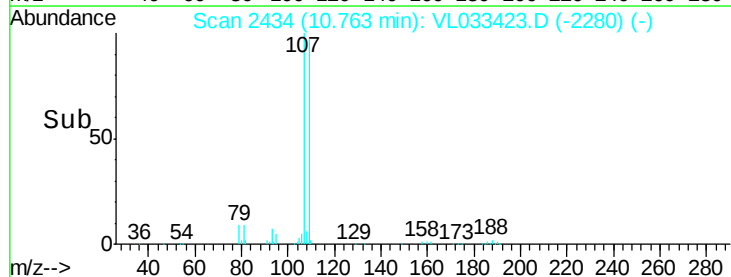
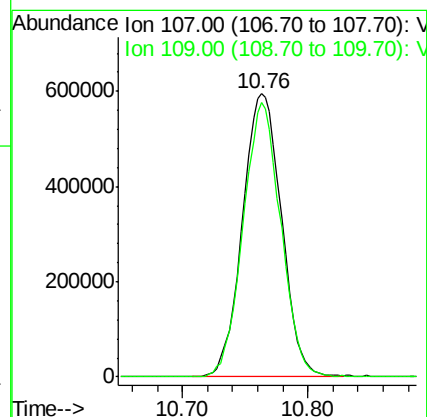
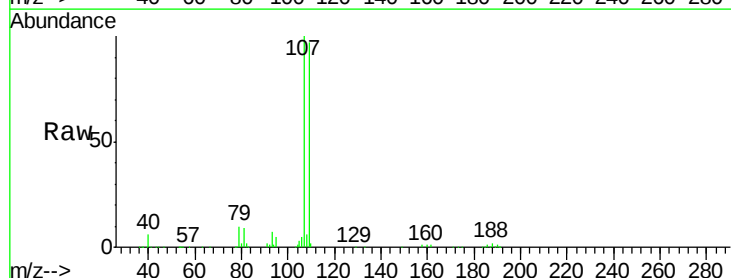
Acq: 21 Mar 2019 19:56

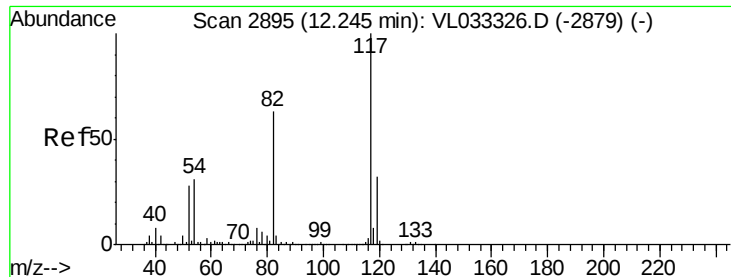
Tgt Ion: 107 Resp: 1282815

Ion Ratio Lower Upper

107 100

109 97.0 77.2 115.8





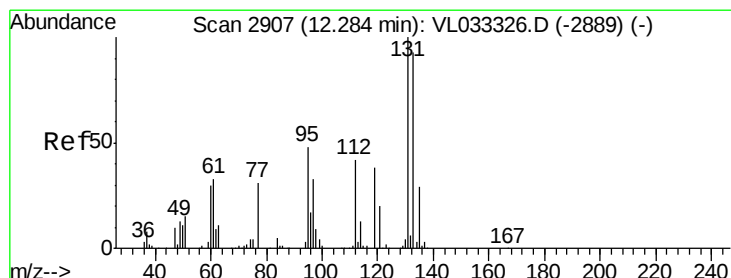
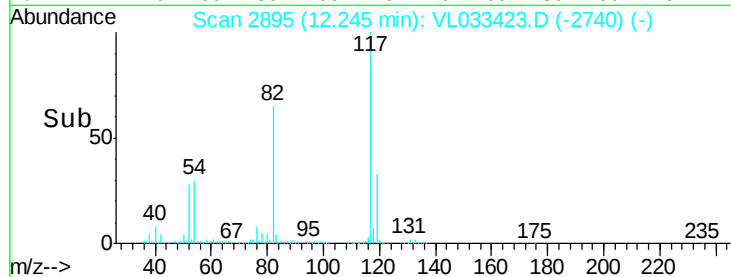
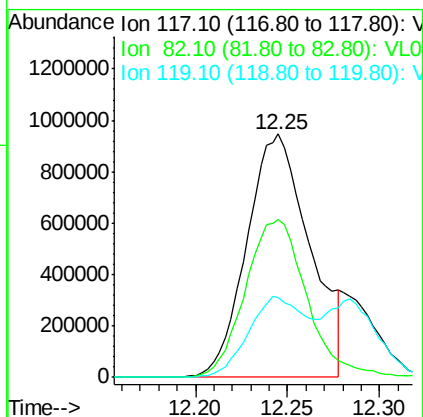
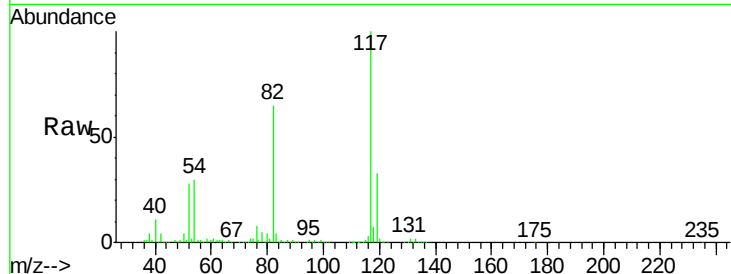
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion:117 Resp: 2250217
Ion Ratio Lower Upper
117 100
82 63.7 53.4 80.2
119 28.3 27.3 40.9

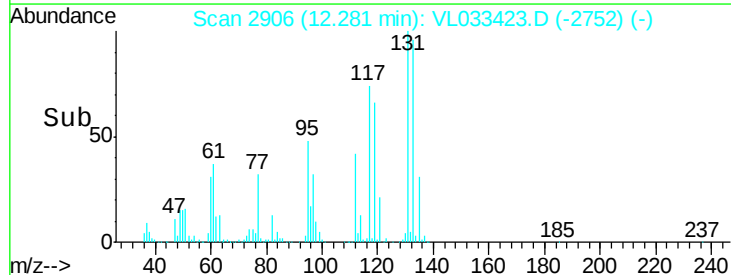
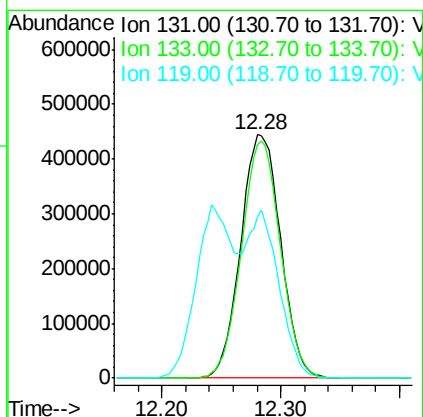
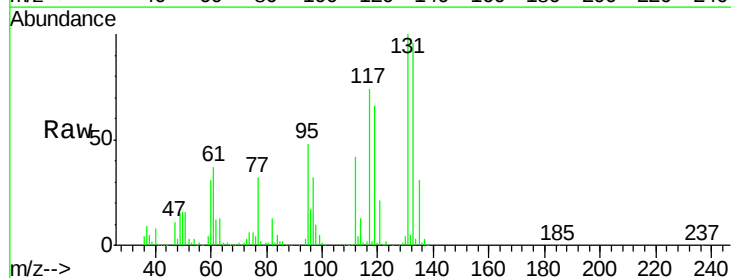
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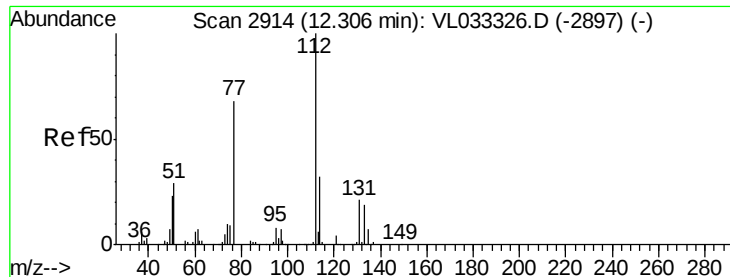
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.234 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion:131 Resp: 1030198
Ion Ratio Lower Upper
131 100
133 95.4 76.7 115.1
119 58.5 40.3 60.5





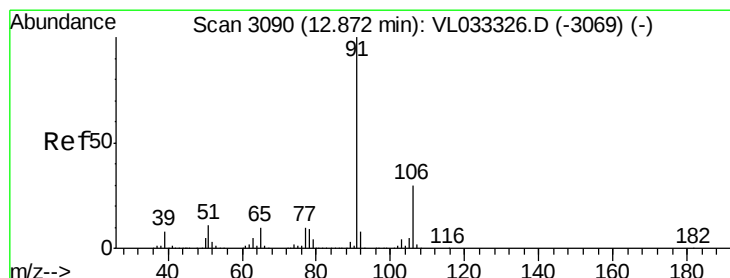
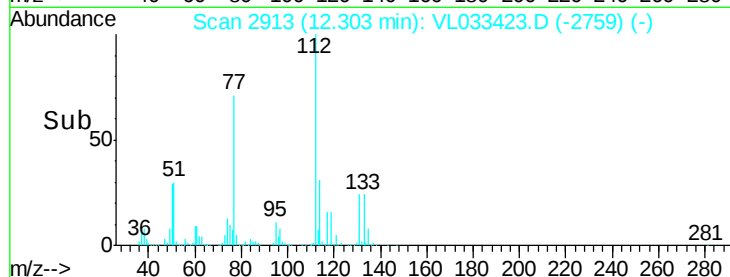
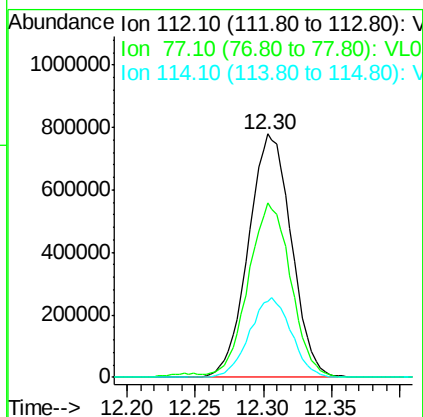
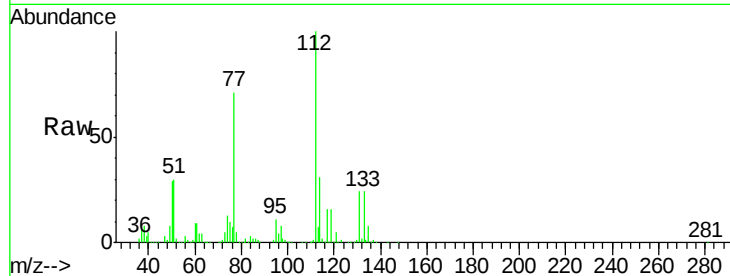
#57
Chlorobenzene
Concen: 9.537 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.2	55.8	83.6
114	31.0	28.6	35.0

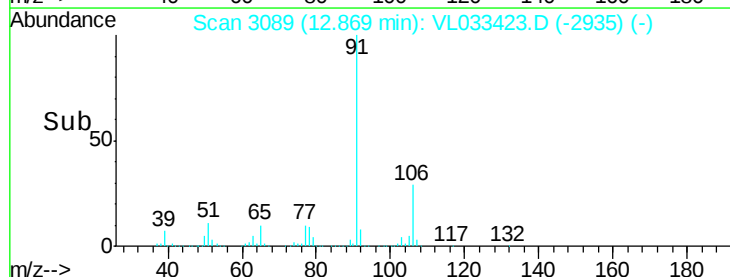
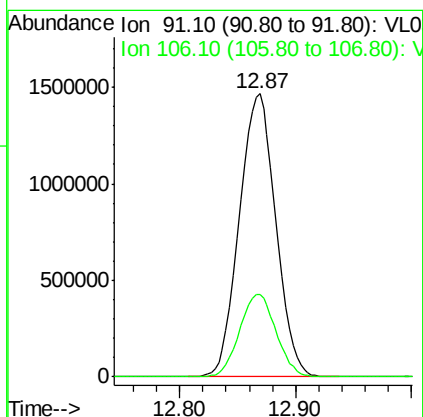
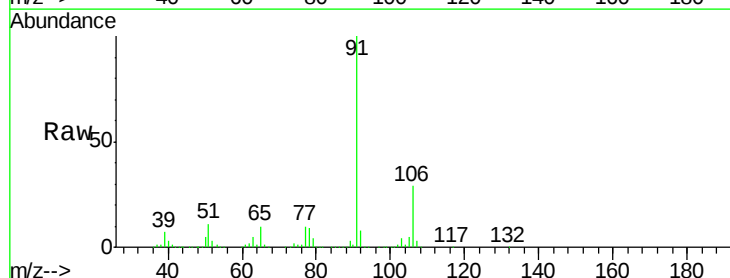
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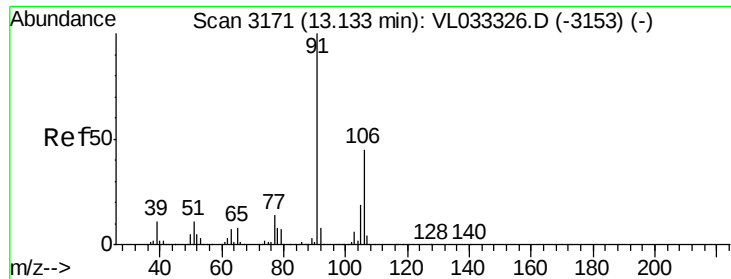
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#58
Ethyl Benzene
Concen: 10.041 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.2	36.2





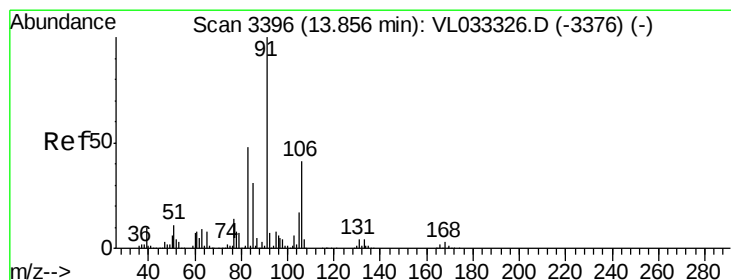
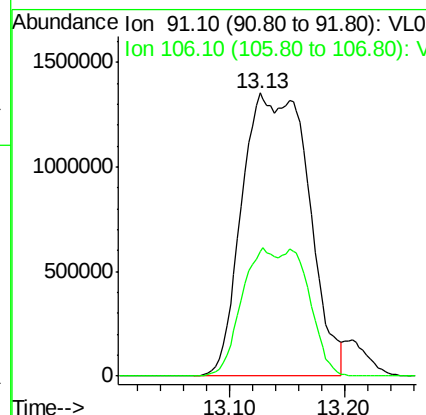
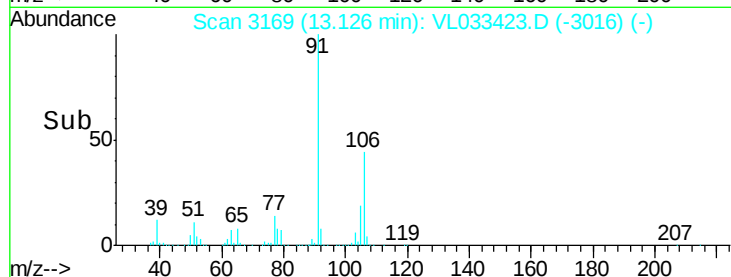
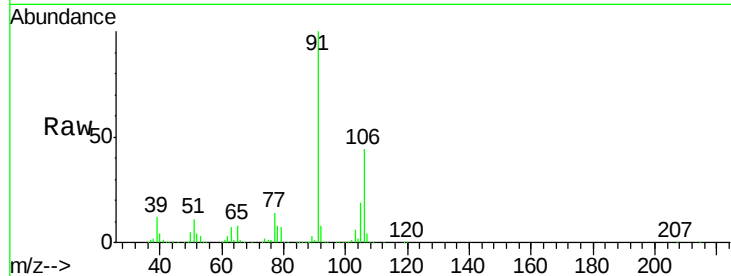
#59
m/p-Xylene
Concen: 19.802 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampled :
VL0321ABS01

Tot Ion: 91 Resp: 5417176
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0#

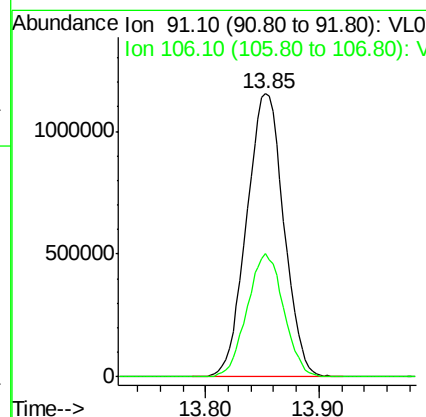
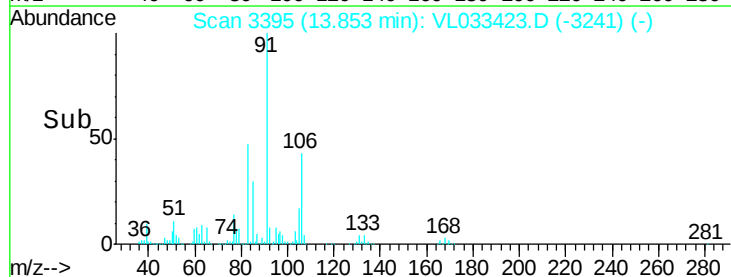
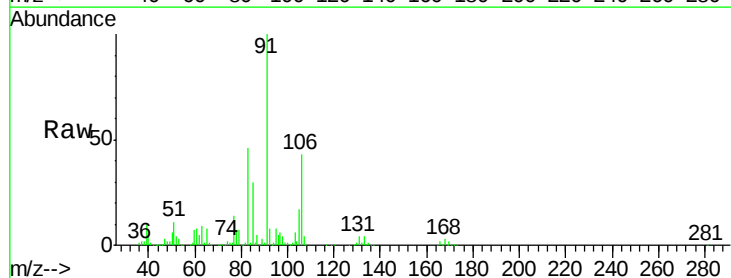
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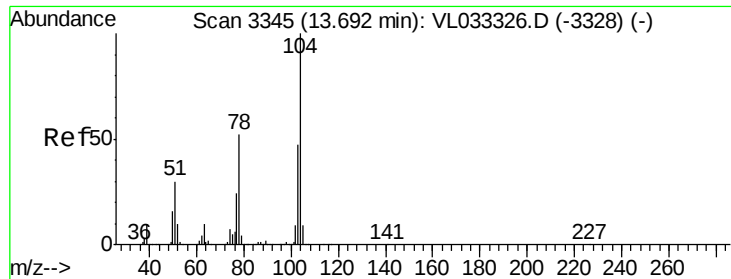
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#60
o-Xylene
Concen: 9.888 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion: 91 Resp: 2638865
Ion Ratio Lower Upper
91 100
106 42.8 21.3 63.9





#61

Stvrene

Concen: 10.323 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion:104 Resp: 1929000

Ion Ratio Lower Upper

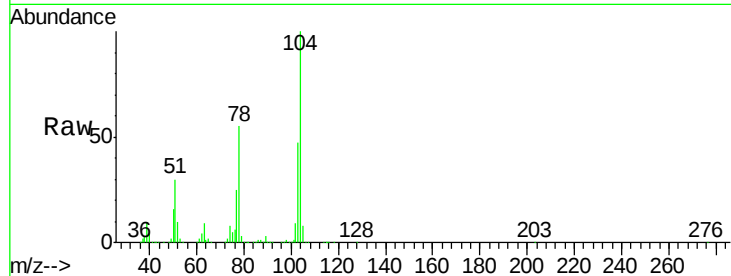
104 100

78 54.5 42.7 64.1

103 47.4 38.0 57.0

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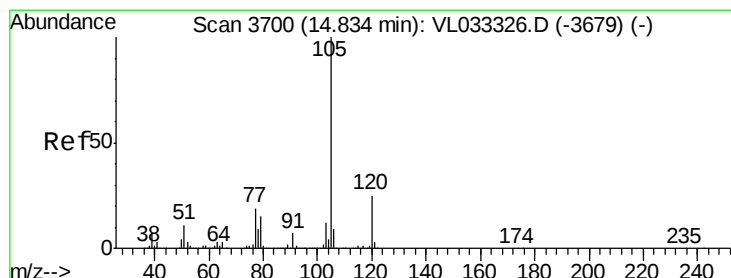
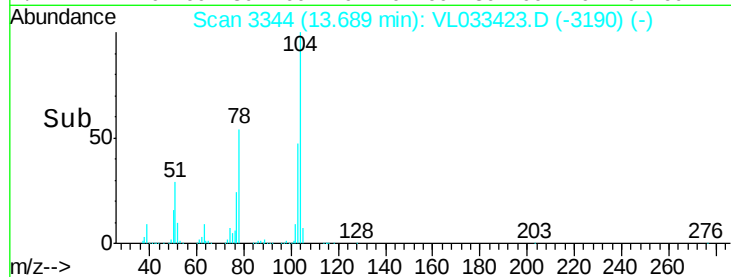
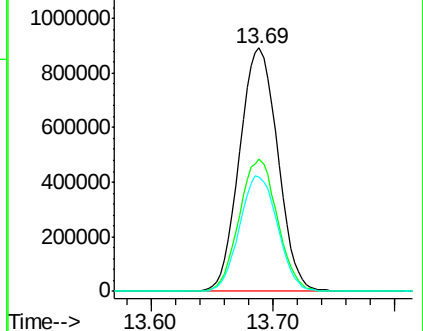
MMDadoda
3/25/2019 8:28:11 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.897 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VL033423.D

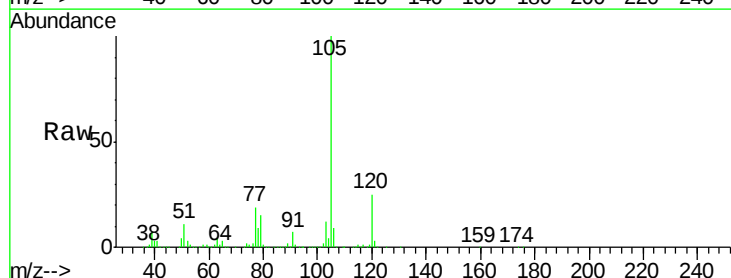
Acq: 21 Mar 2019 19:56

Tgt Ion:105 Resp: 3672122

Ion Ratio Lower Upper

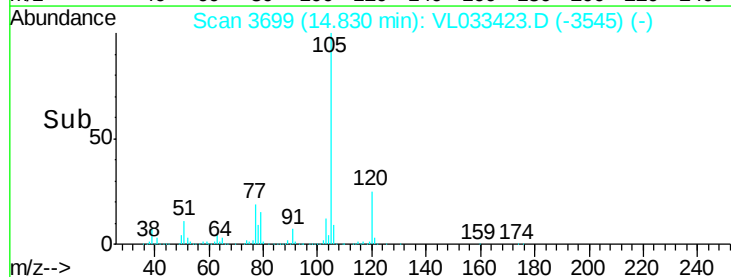
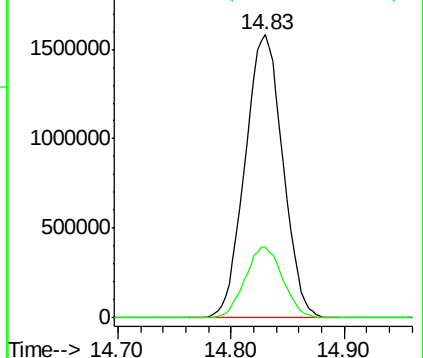
105 100

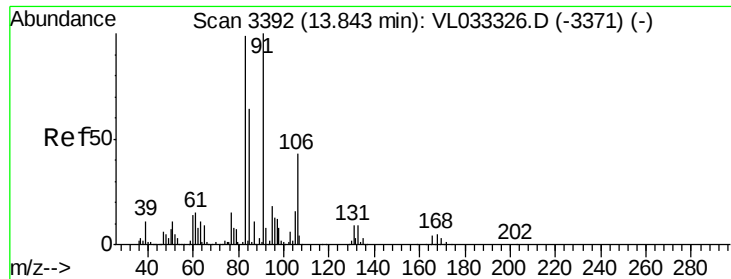
120 24.9 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





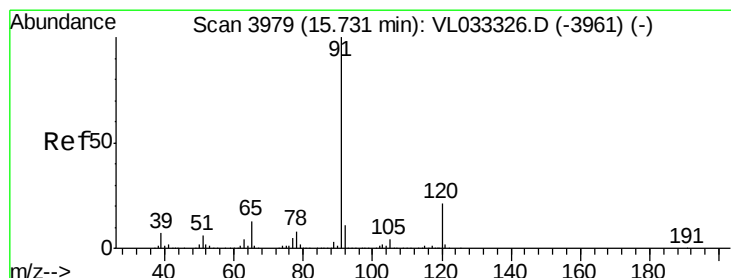
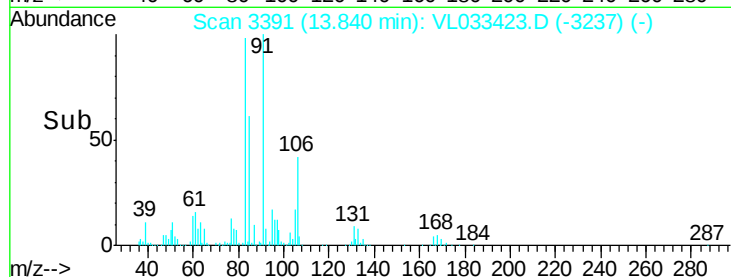
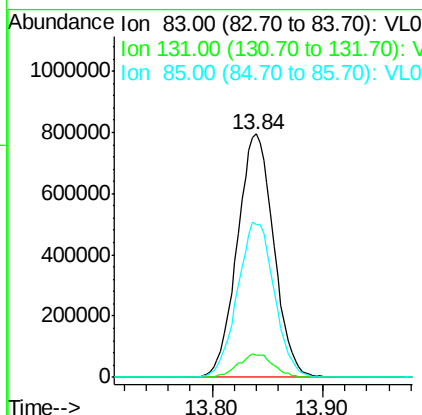
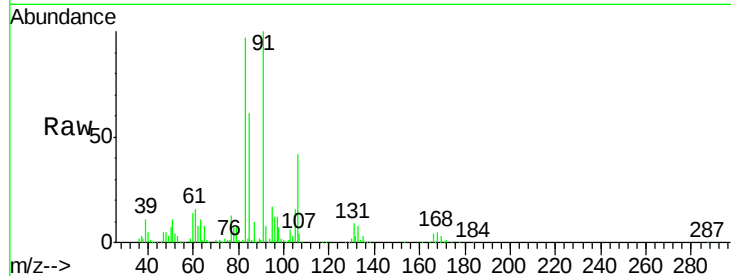
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.412 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	83	Resp	1815881
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	64.5	32.5	97.4

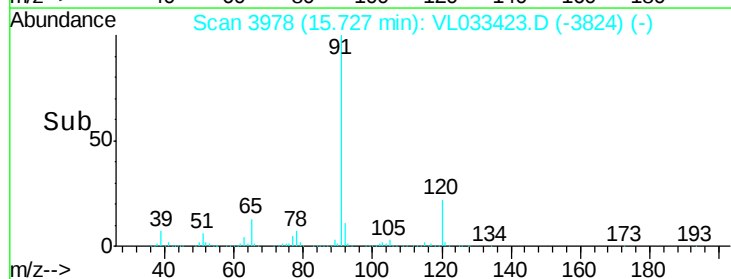
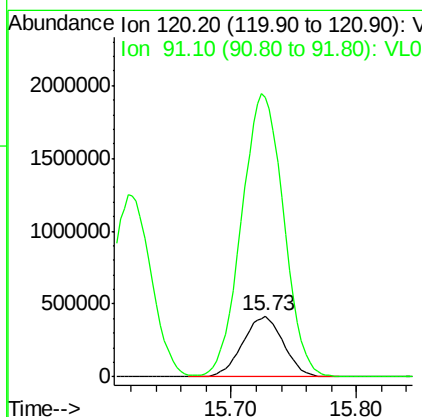
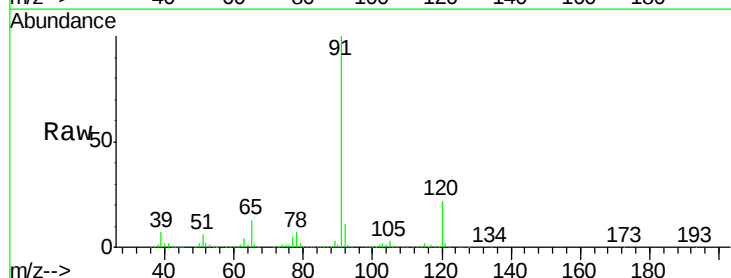
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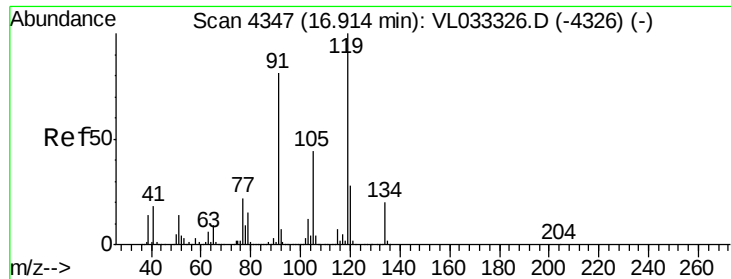
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 3/25/2019 8:28:11 AM



#64
 n-propylbenzene
 Concen: 10.041 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	120	Resp	942703
Ion	Ratio	Lower	Upper
120	100		
91	481.2	389.8	584.6





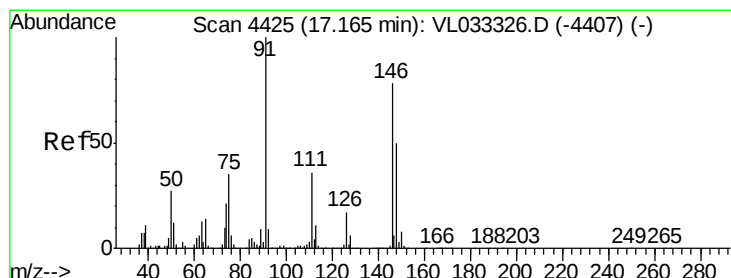
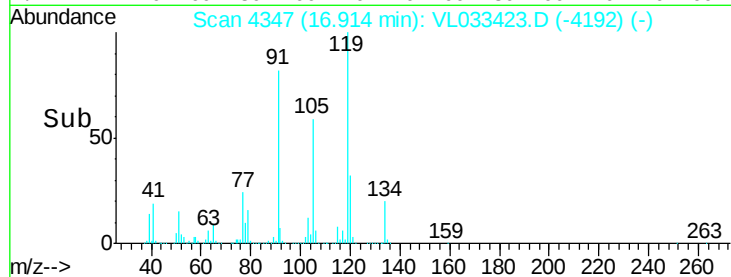
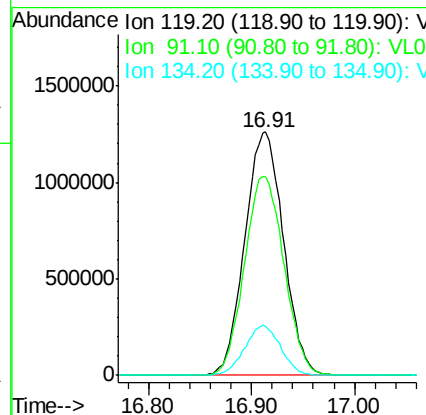
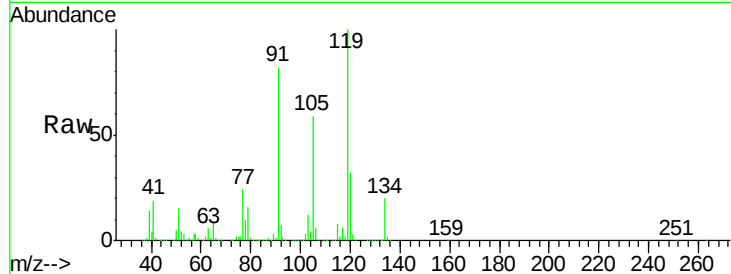
#65
 tert-Butylbenzene
 Concen: 9.822 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.7	67.2	100.8
134	19.1	15.4	23.2

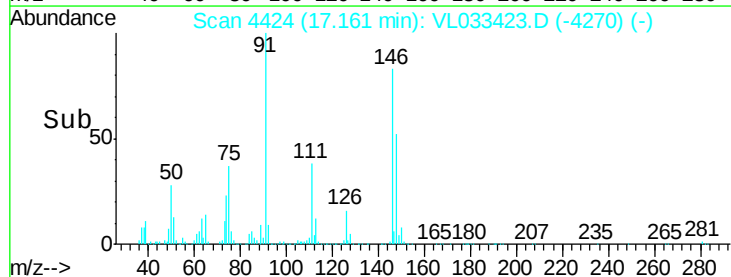
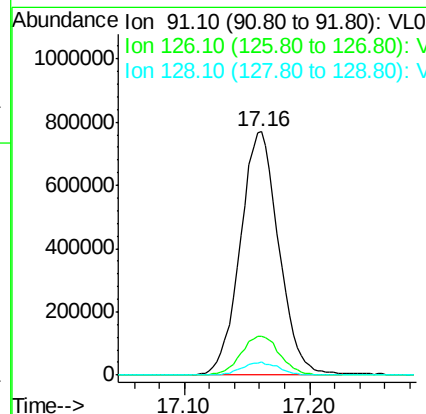
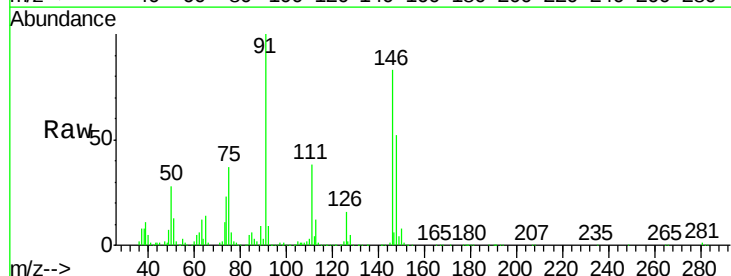
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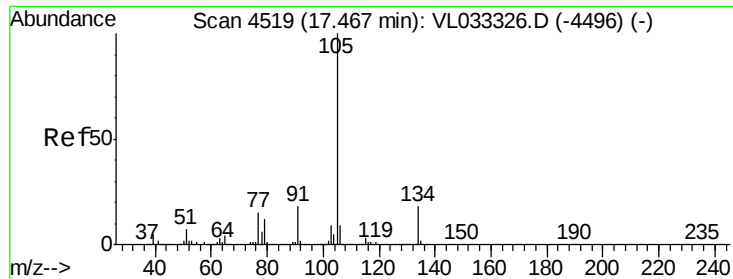
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#66
 Benzyl Chloride
 Concen: 11.838 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.4	13.2	19.8
128	5.1	4.2	6.4





#67

sec-Butylbenzene

Concen: 9.854 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 105 Resp: 4664291

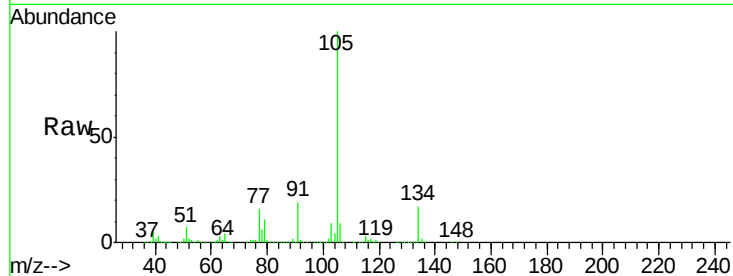
Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.4

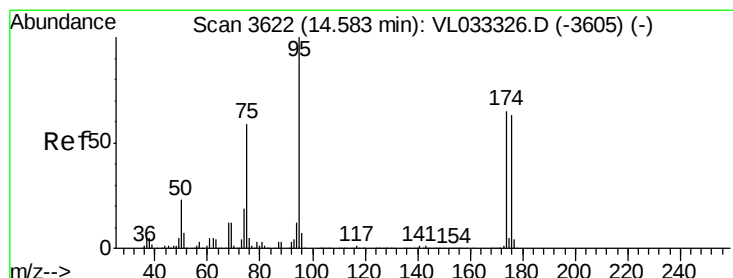
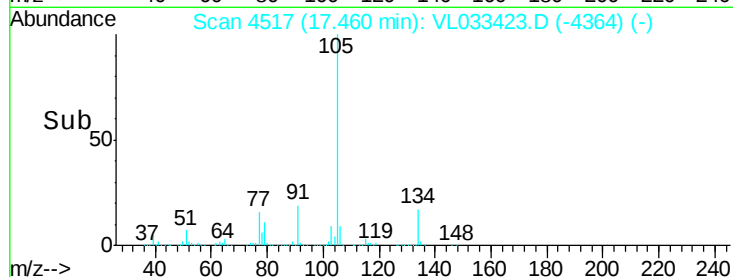
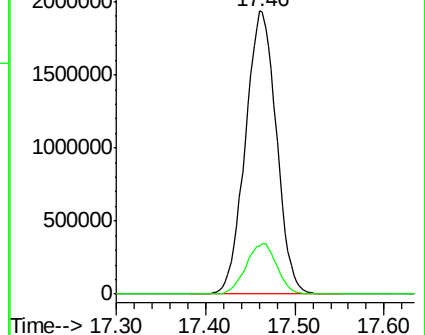
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.688 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

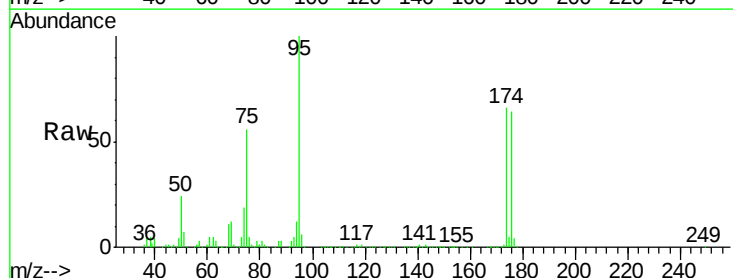
Tgt Ion: 95 Resp: 1615468

Ion Ratio Lower Upper

95 100

174 65.2 51.5 77.3

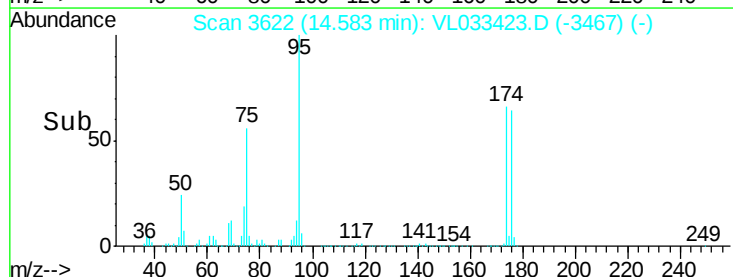
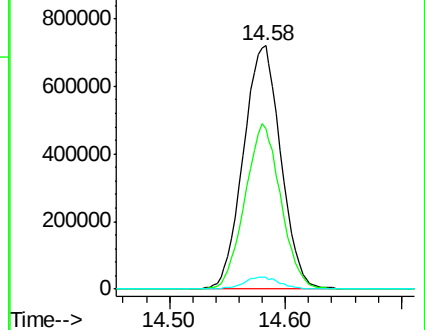
175 4.7 3.8 5.6

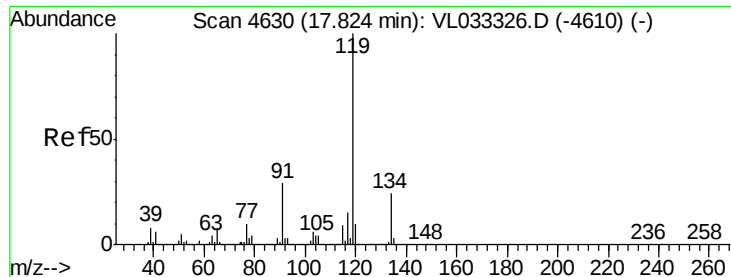


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





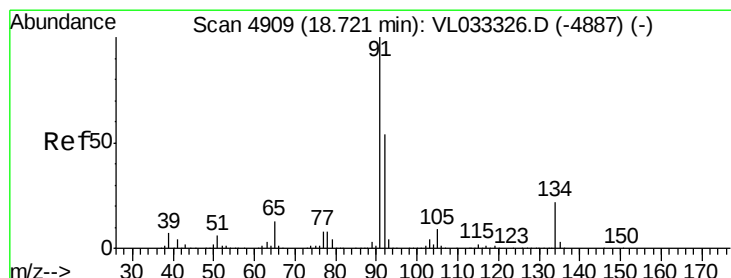
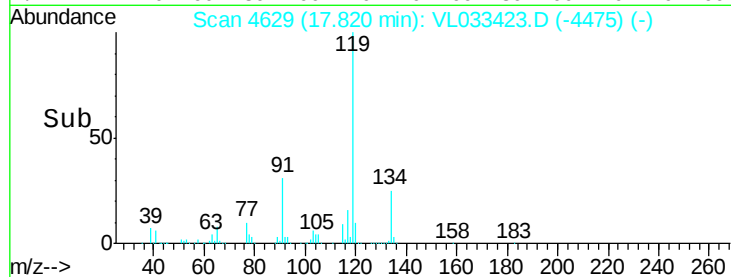
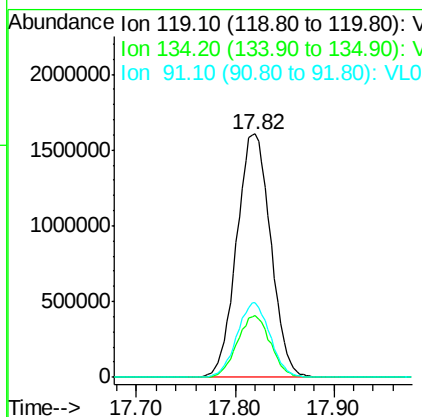
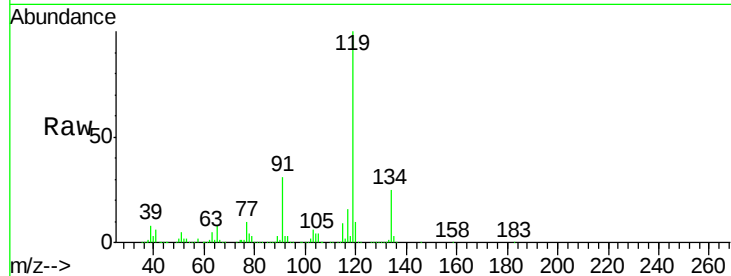
#69
 p-Isopropyltoluene
 Concen: 9.919 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion: 119 Resp: 3835695
 Ion Ratio Lower Upper
 119 100
 134 24.9 19.8 29.6
 91 29.9 23.4 35.2

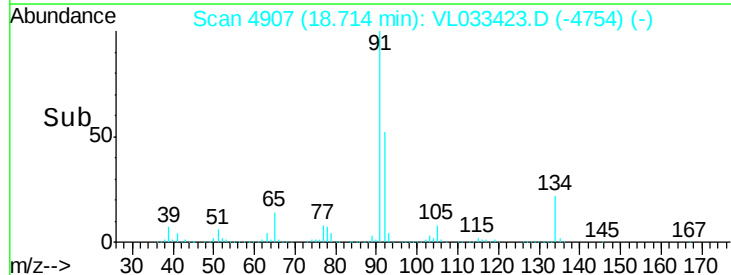
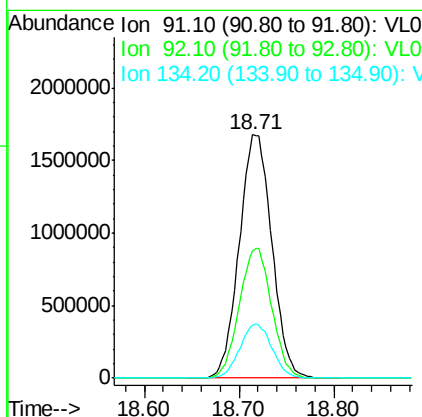
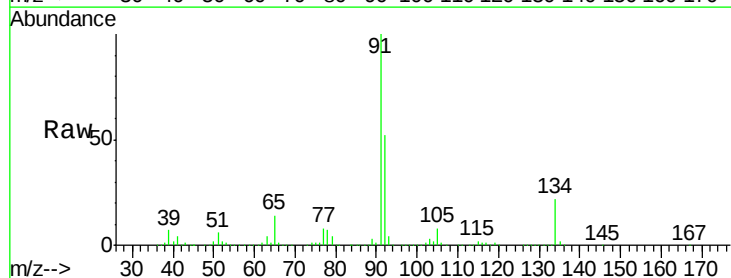
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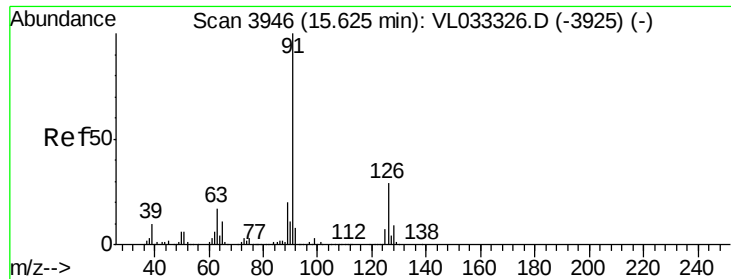
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.734 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion: 91 Resp: 4013747
 Ion Ratio Lower Upper
 91 100
 92 53.2 42.8 64.2
 134 21.9 17.4 26.0





#71

2-Chlorotoluene

Concen: 9.776 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Instrument :

MSVOA_L

ClientSampleId :

VL0321ABS01

Tot Ion: 91 Resp: 2823542

Ion Ratio Lower Upper

91 100

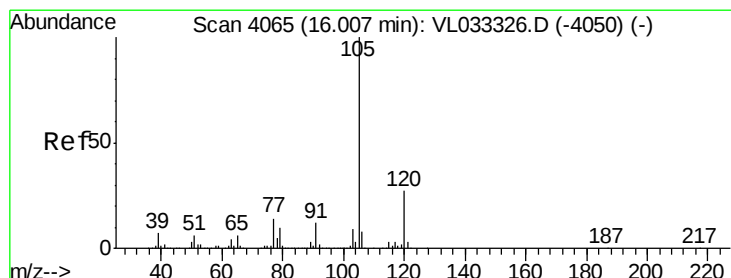
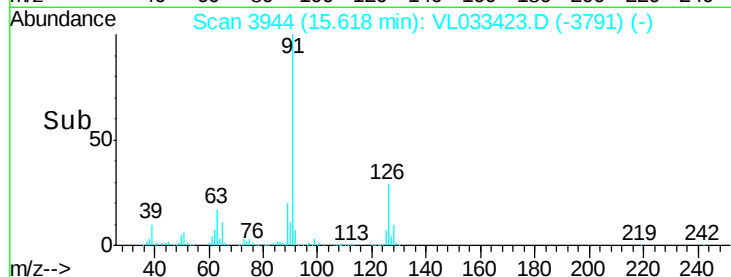
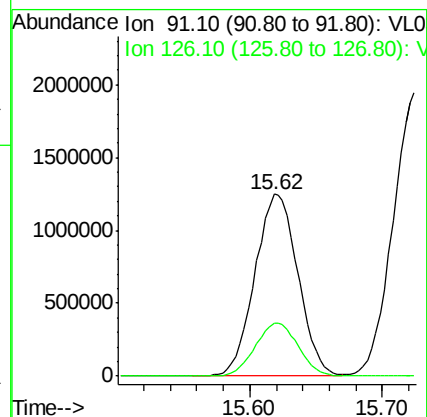
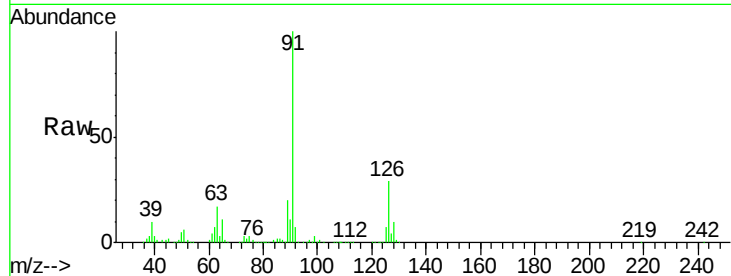
126 29.3 11.6 46.6

Manual Integrations

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#72

4-Ethyltoluene

Concen: 9.984 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033423.D

Acq: 21 Mar 2019 19:56

Tgt Ion:105 Resp: 3026025

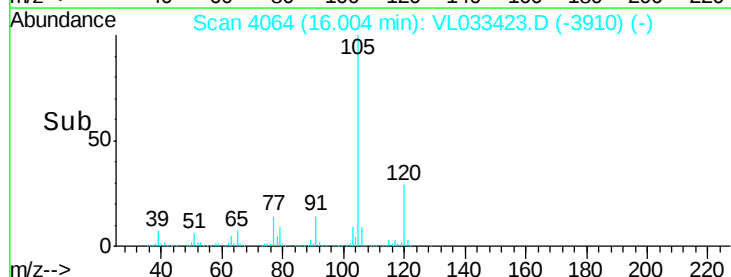
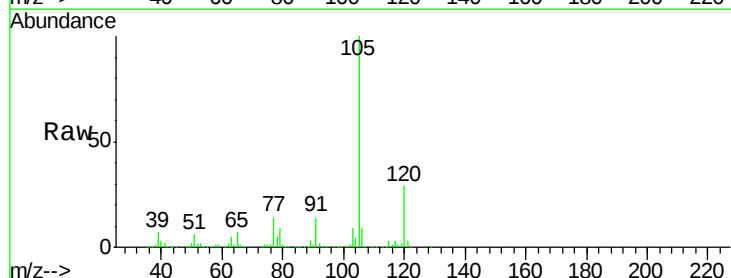
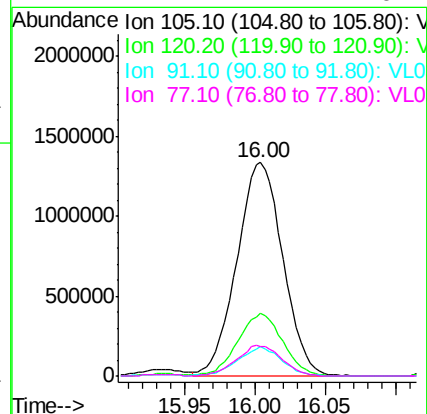
Ion Ratio Lower Upper

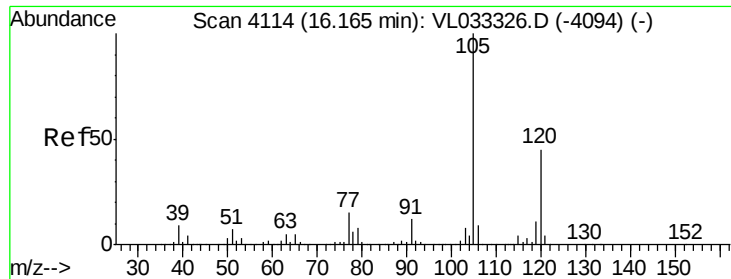
105 100

120 28.9 22.9 34.3

91 13.0 10.2 15.2

77 14.2 11.1 16.7





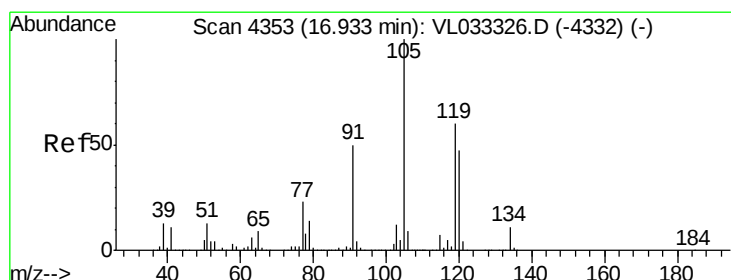
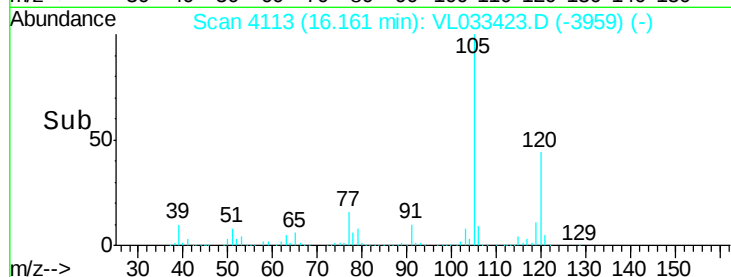
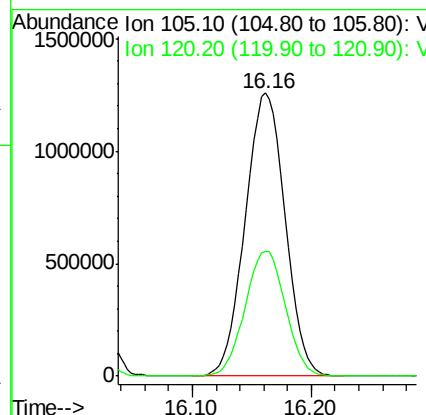
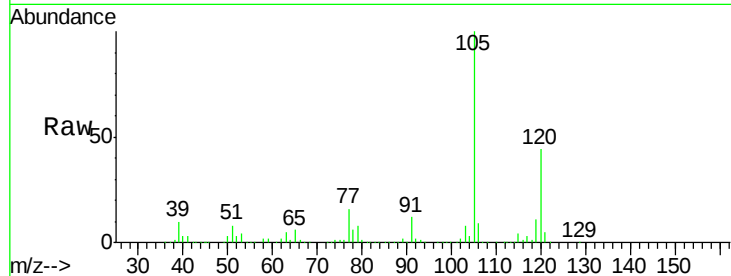
#73
 1,3,5-Trimethylbenzene
 Concen: 9.895 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion:105 Resp: 2921413
 Ion Ratio Lower Upper
 105 100
 120 44.2 36.2 54.4

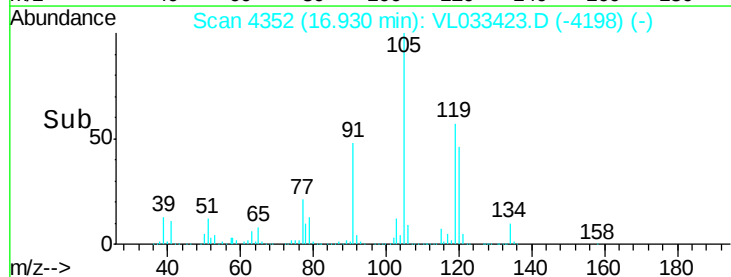
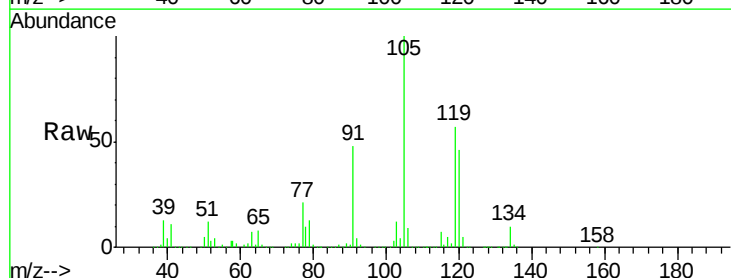
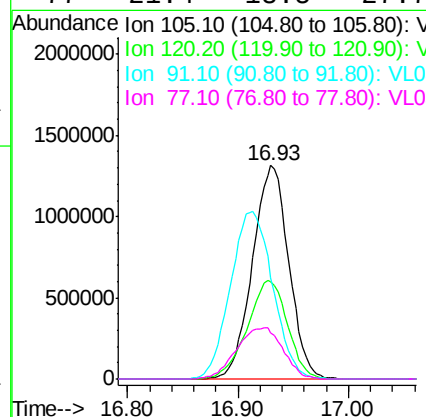
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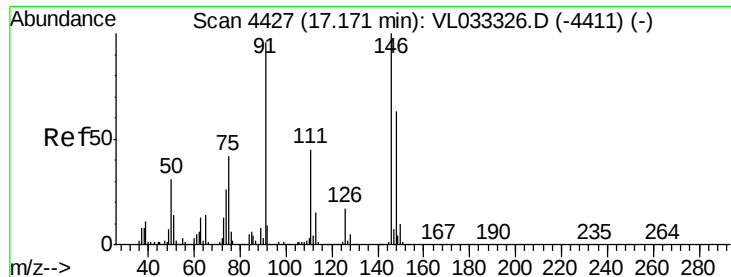
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.610 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion:105 Resp: 3005076
 Ion Ratio Lower Upper
 105 100
 120 45.8 37.4 56.2
 91 47.4 41.0 61.4
 77 21.4 18.5 27.7





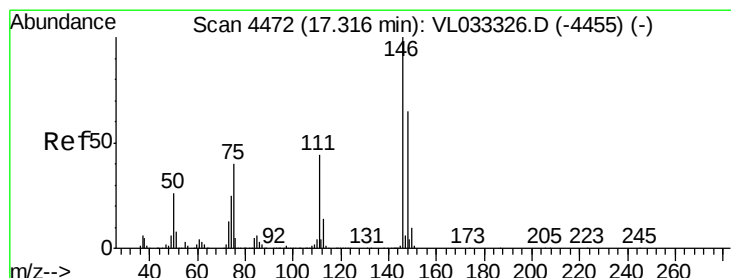
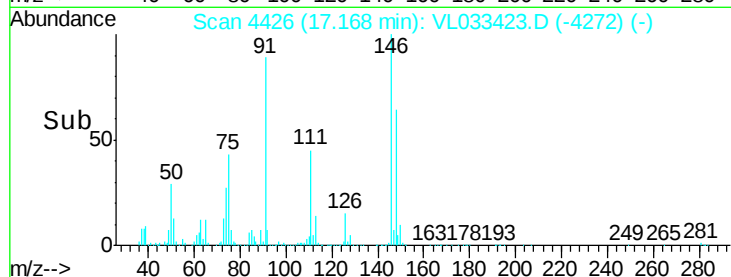
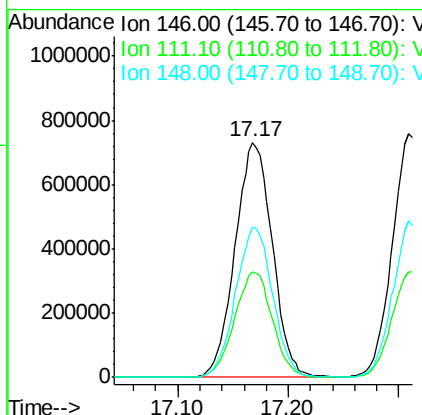
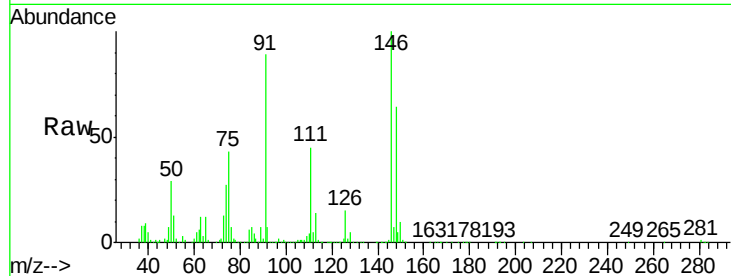
#75
 1,3-Dichlorobenzene
 Concen: 9.280 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.8	68.3
148	63.6	31.9	95.7

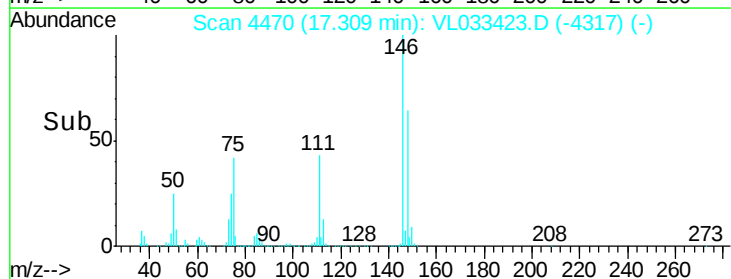
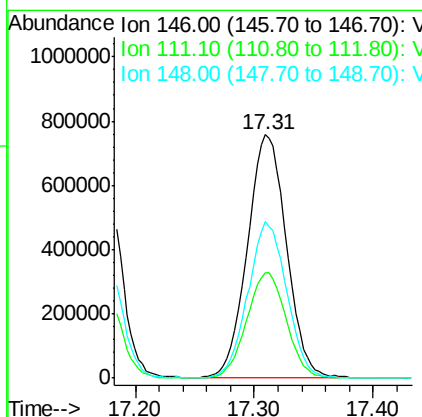
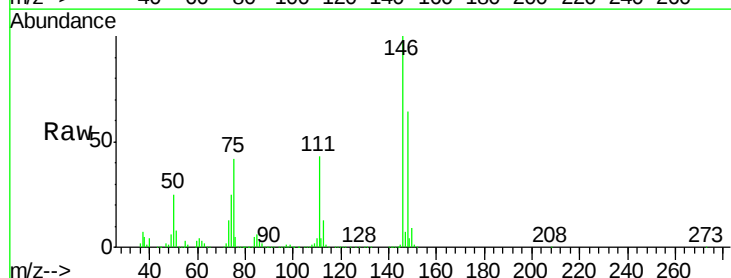
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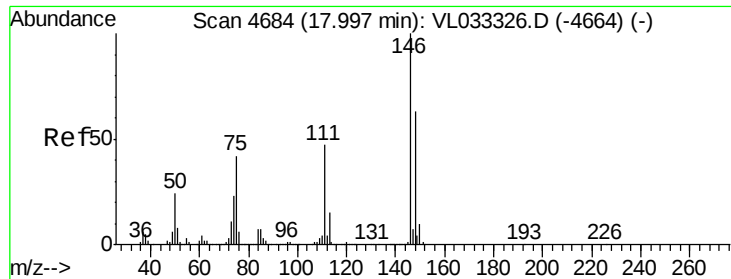
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 3/25/2019 8:28:11 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.580 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.7
148	64.4	32.1	96.5





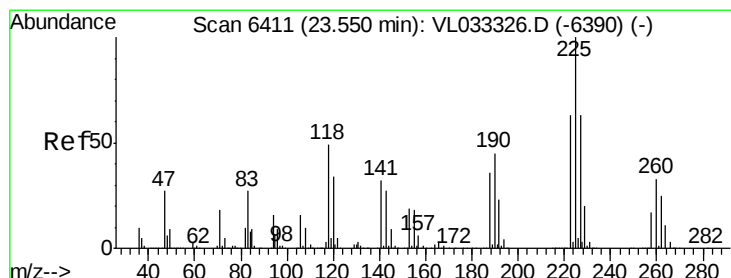
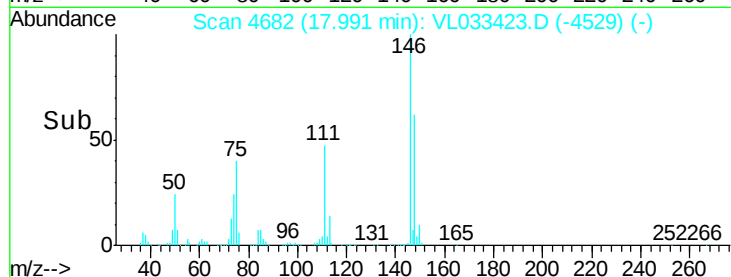
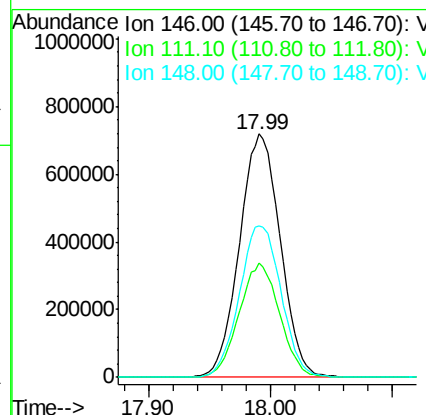
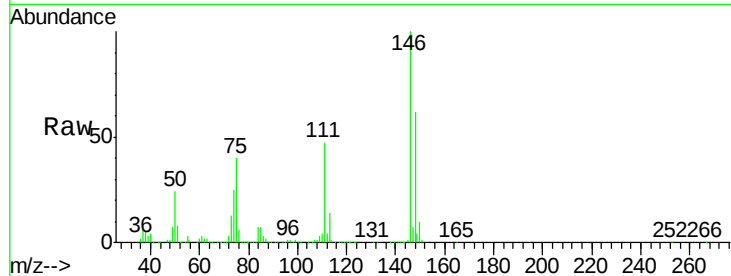
#77
 1,2-Dichlorobenzene
 Concen: 9.500 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.5	70.6
148	64.0	31.9	95.9

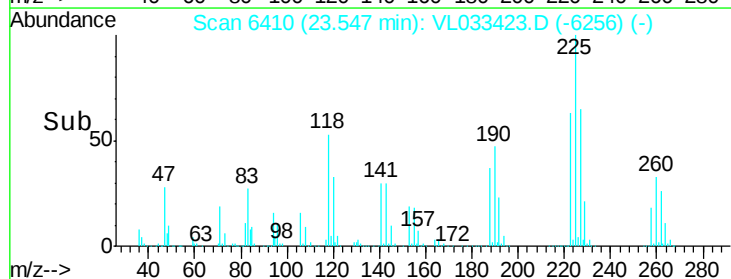
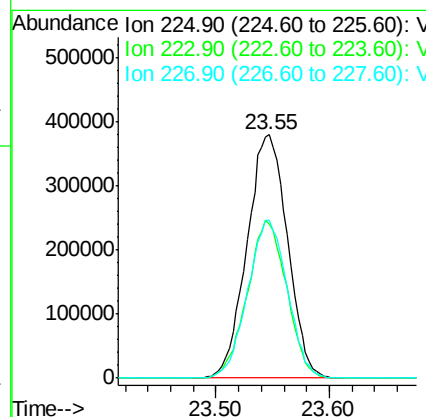
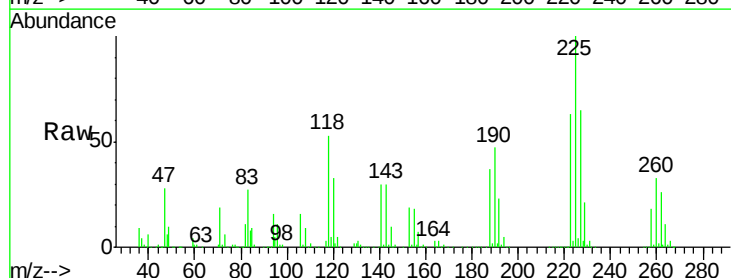
Manual Integrations
 APPROVED

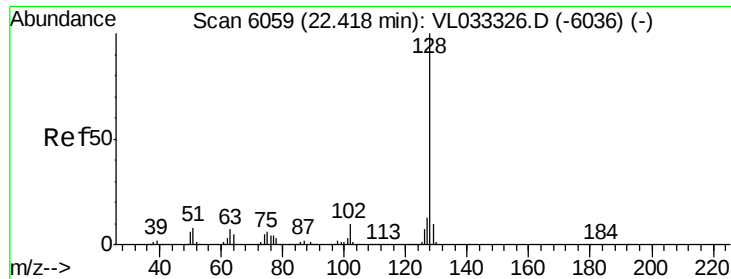
MMDadoda
 3/25/2019 8:28:11 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.022 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6
227	63.7	50.5	75.7





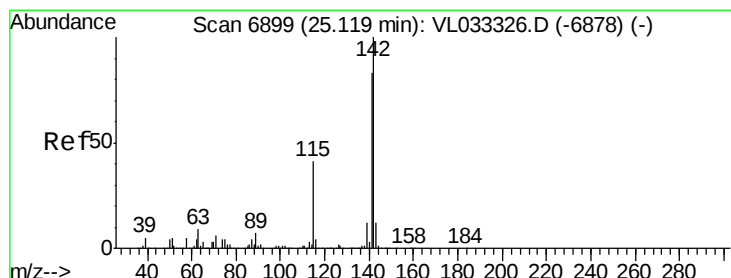
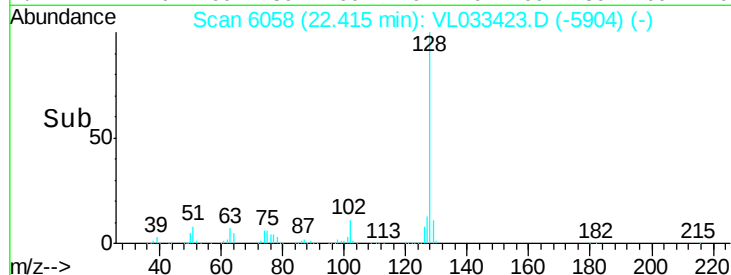
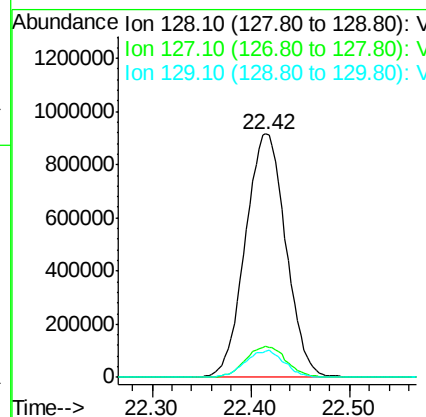
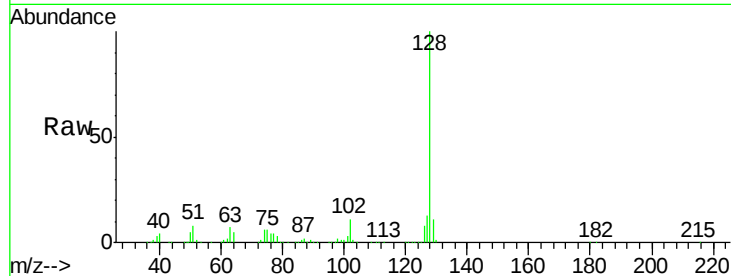
#79
Naphthalene
Concen: 8.622 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.00 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Instrument :
MSVOA_L
ClientSampleId :
VL0321ABS01

Tot Ion:128 Resp: 2597979
Ion Ratio Lower Upper
128 100
127 13.0 10.1 15.1
129 10.7 8.2 12.2

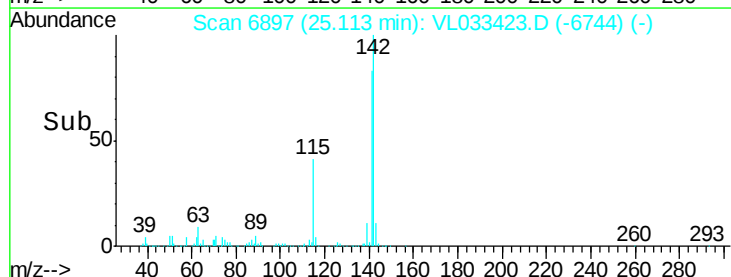
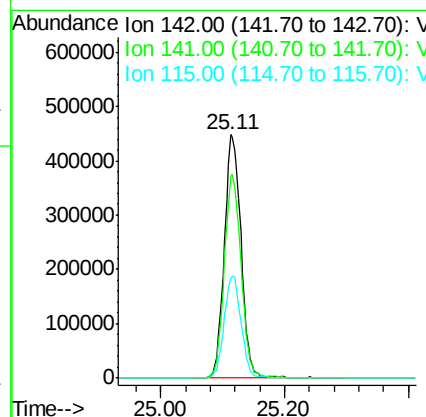
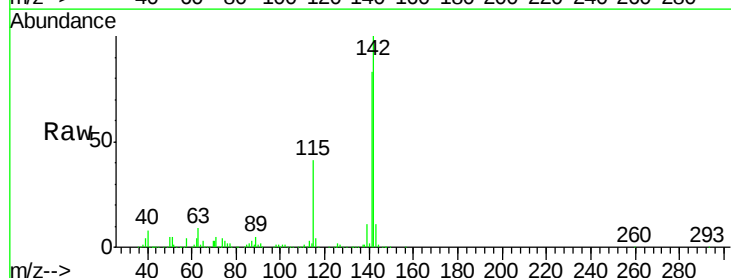
Manual Integrations
APPROVED

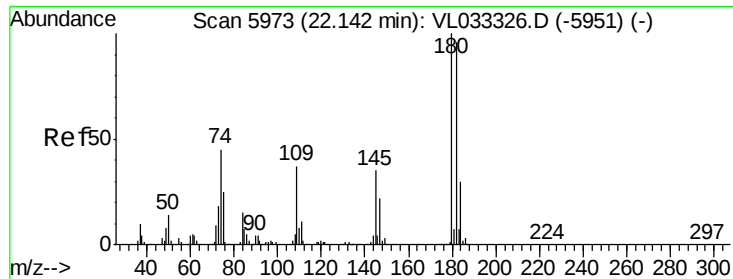
MMDadoda
3/25/2019 8:28:11 AM



#80
Naphthalene, 2-methyl-
Concen: 5.889 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.01 min
Lab File: VL033423.D
Acq: 21 Mar 2019 19:56

Tgt Ion:142 Resp: 841476
Ion Ratio Lower Upper
142 100
141 84.4 67.1 100.7
115 42.7 33.8 50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 8.792 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033423.D
 Acq: 21 Mar 2019 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.1	114.1
184	30.6	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:11 AM

