

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033359.D
 Acq On : 18 Mar 2019 14:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:14:18 PM

Quant Time: Mar 19 07:06:36 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	5.76	49	789362	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1790091	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2176581m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1550838	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1078351	7.768 ppbv	98
3) Chlorodifluoromethane	3.01	51	911437	10.060 ppbv	99
4) Chloromethane	3.17	50	489455	9.977 ppbv	99
5) Vinyl Chloride	3.29	62	487978	9.642 ppbv	98
6) Bromomethane	3.51	94	308867	10.267 ppbv	98
7) Chloroethane	3.60	64	180624	10.213 ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1190520	10.074 ppbv	100
9) Propene	3.04	41	390993	9.667 ppbv	100
10) Heptane	8.25	43	1011411	10.082 ppbv	99
11) Trichlorofluoromethane	4.00	101	1376836	9.961 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	899064	9.803 ppbv	100
13) Ethanol	3.65	45	92661	4.806 ppbv	100
14) Bromoethene	3.79	108	390136	10.206 ppbv	100
15) Acetone	3.90	43	878299	7.158 ppbv	100
16) 1,3-Butadiene	3.36	39	433110	10.867 ppbv	93
17) tert-Butyl alcohol	4.35	59	192453	11.145 ppbv	100
18) 1,1-Dichloroethene	4.35	96	402965	9.609 ppbv	98
19) Isopropyl Alcohol	4.02	45	653424	11.195 ppbv	99
20) Methylene Chloride	4.41	84	330713	8.264 ppbv	96
21) Allyl Chloride	4.48	41	611576	10.275 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	408278	10.046 ppbv	99
23) Vinyl Acetate	5.15	43	1445345	10.180 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1022190	9.969 ppbv	100
25) Ethyl Acetate	5.77	43	1708986	9.581 ppbv	100
26) Hexane	5.78	57	754660	9.464 ppbv	99
27) Carbon Disulfide	4.62	76	1002920	10.925 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1202686	10.154 ppbv	100
29) Chloroform	5.85	83	1302745	9.977 ppbv	97
30) Cyclohexane	7.25	84	637910	9.978 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	808199	10.137 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1287076	10.040 ppbv	100
34) 2-Butanone	5.33	43	1124604	9.566 ppbv	99
35) Carbon Tetrachloride	7.14	117	1340566	10.622 ppbv	99
36) Benzene	7.00	78	1588109	9.913 ppbv	99
37) 1,2-Dichloroethane	6.41	62	995057	9.823 ppbv	99
38) Trichloroethene	7.96	130	605812	9.993 ppbv	98
39) 1,2-Dichloropropane	7.74	63	604434	10.075 ppbv	97
40) 1,4-Dioxane	7.96	88	210054	9.943 ppbv	98
41) Tetrahydrofuran	6.15	42	644024	10.266 ppbv	99
42) Bromodichloromethane	7.92	83	1416039	10.426 ppbv	98
43) Methyl Methacrylate	8.14	69	651130	10.438 ppbv	99

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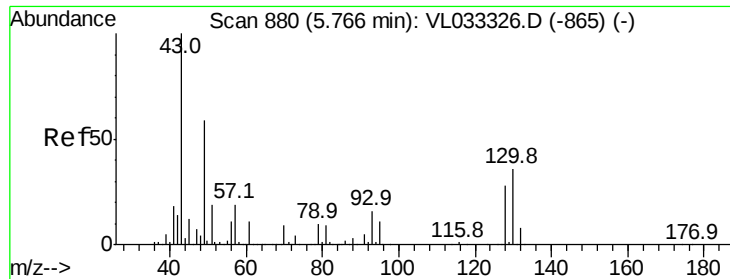
Manual Integrations
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 3/21/2019 12:14:18 PM

Quant Time: Mar 19 07:06:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 19 07:06:36 2019
 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	2684267	10.116	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	885717	11.501	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	996505	10.989	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	668765	10.089	ppbv	96
48) Dibromochloromethane	10.45	129	1204524	10.835	ppbv	100
49) Bromoform	13.20	173	1217936	11.549	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1656580	9.976	ppbv	100
51) 2-Hexanone	10.27	43	1317030	10.280	ppbv #	99
52) Tetrachloroethene	11.38	164	661344	9.909	ppbv	98
53) Toluene	9.95	91	1887813	10.371	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1061292	9.471	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	966653	9.928	ppbv	94
57) Chlorobenzene	12.30	112	1582816	9.182	ppbv	98
58) Ethyl Benzene	12.87	91	3016985	9.798	ppbv	99
59) m/p-Xylene	13.13	91	5067890m	19.152	ppbv	
60) o-Xylene	13.85	91	2505292	9.705	ppbv	100
61) Styrene	13.69	104	1828929	10.119	ppbv	100
62) Isopropylbenzene	14.83	105	3483160	9.705	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1723428	9.235	ppbv	99
64) n-propylbenzene	15.72	120	888860	9.788	ppbv	100
65) tert-Butylbenzene	16.91	119	3099110	9.591	ppbv	100
66) Benzyl Chloride	17.16	91	1579306	11.828	ppbv	99
67) sec-Butylbenzene	17.46	105	4426943	9.669	ppbv	100
69) p-Isopropyltoluene	17.82	119	3653071	9.766	ppbv	99
70) n-Butylbenzene	18.72	91	3866441	9.694	ppbv	99
71) 2-Chlorotoluene	15.62	91	2699187	9.662	ppbv	100
72) 4-Ethyltoluene	16.00	105	2911122	9.930	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2776958	9.724	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2844044	9.403	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1628306	9.134	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1628845	9.437	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1585056	9.388	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	791509	7.819	ppbv	99
79) Naphthalene	22.42	128	2591026	8.889	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1078045	7.800	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1342697	9.034	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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MSVOA_L

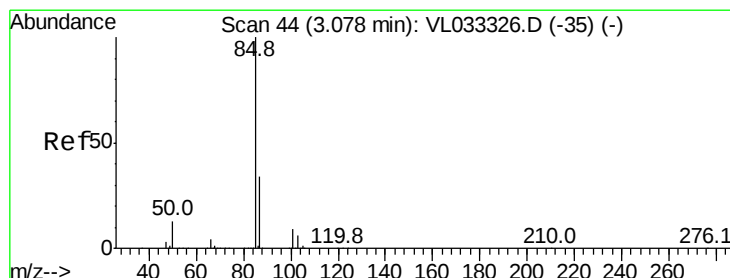
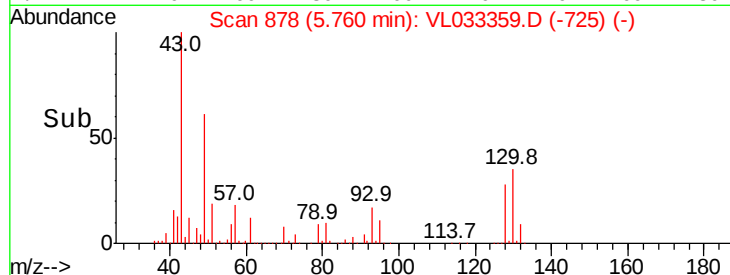
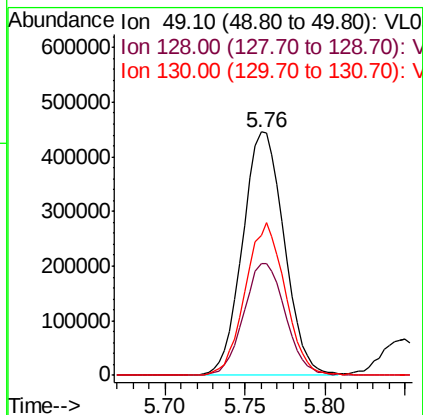
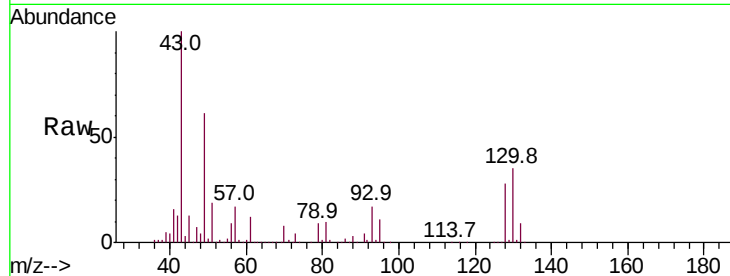
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	789362
Ion	Ratio	Lower	Upper
49	100		
128	46.1	23.5	70.6
130	60.5	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 7.768 ppbv

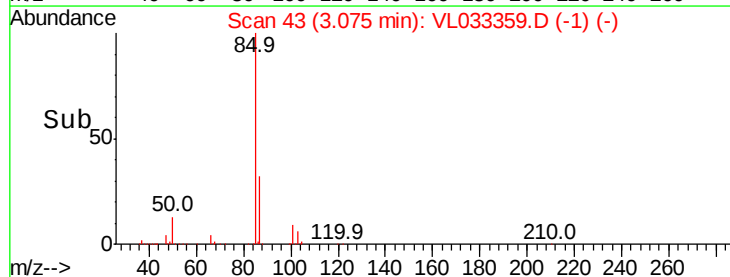
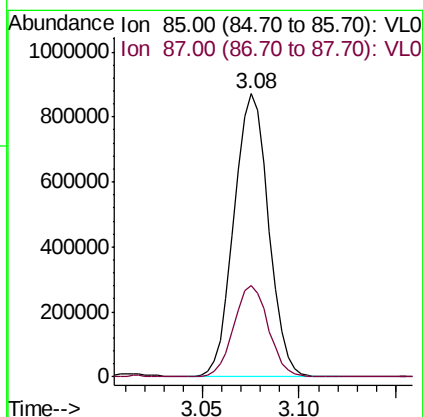
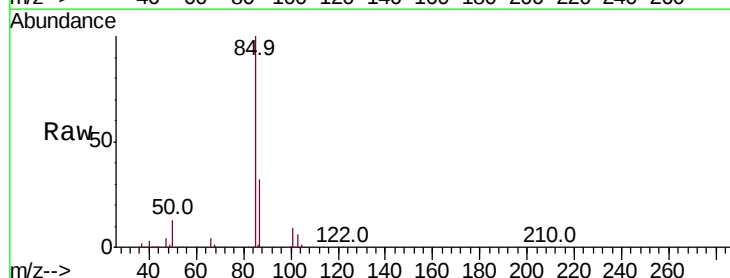
RT: 3.08 min Scan# 43

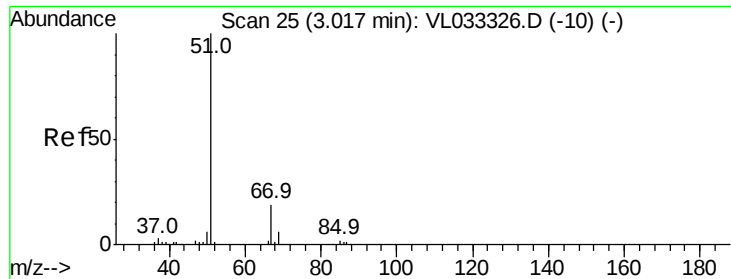
Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion:	85	Resp:	1078351
Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 10.060 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 911437

Ion Ratio Lower Upper

51 100

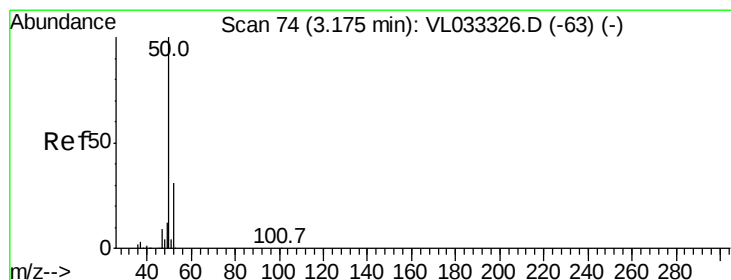
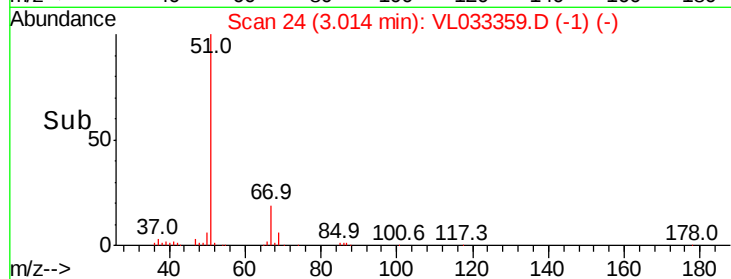
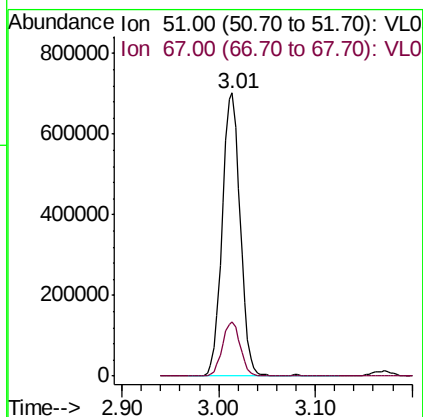
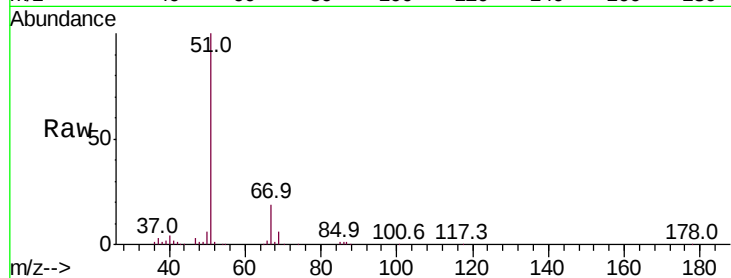
67 19.1 14.9 22.3

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#4

Chloromethane

Concen: 9.977 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033359.D

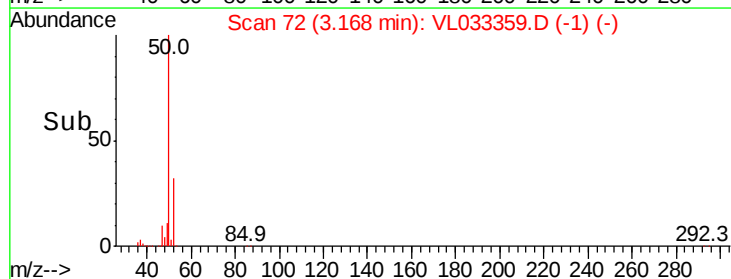
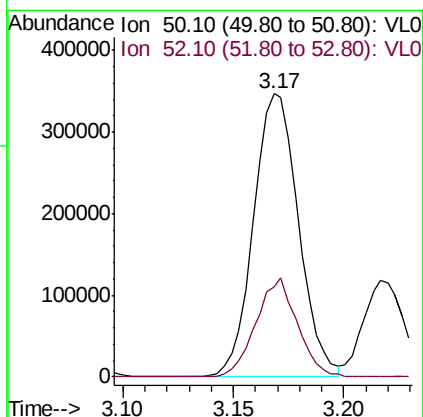
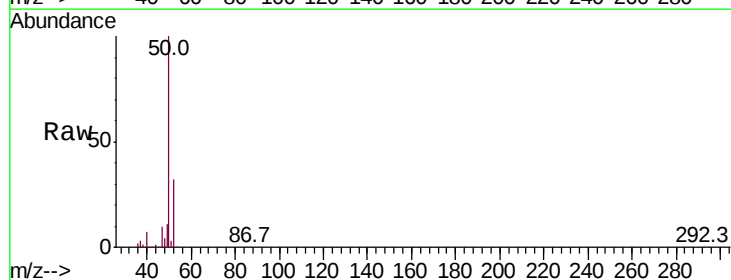
Acq: 18 Mar 2019 14:51

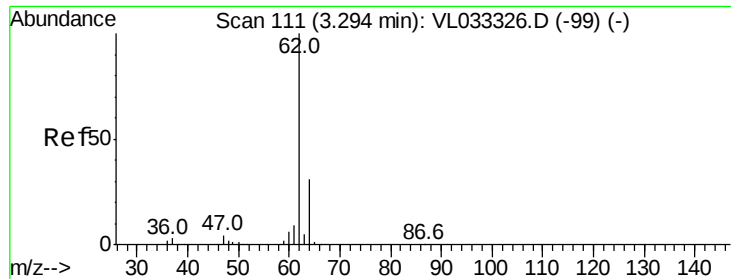
Tgt Ion: 50 Resp: 489455

Ion Ratio Lower Upper

50 100

52 31.9 25.0 37.6





#5

Vinyl Chloride

Concen: 9.642 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 487978

Ion Ratio Lower Upper

62 100

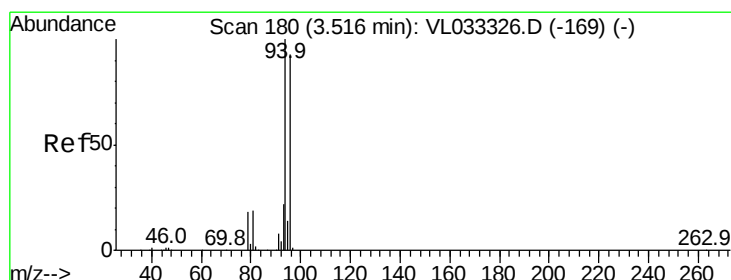
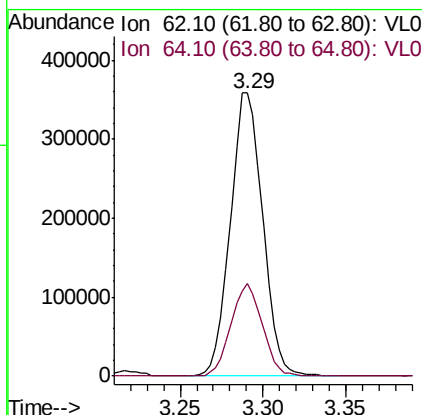
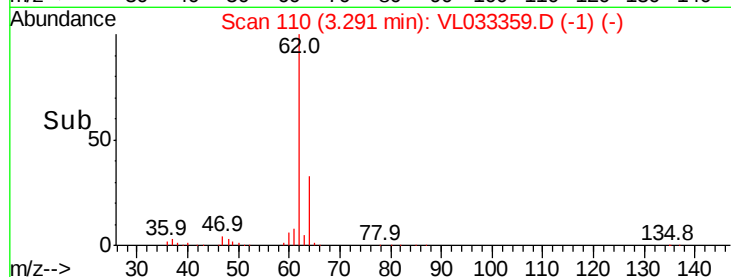
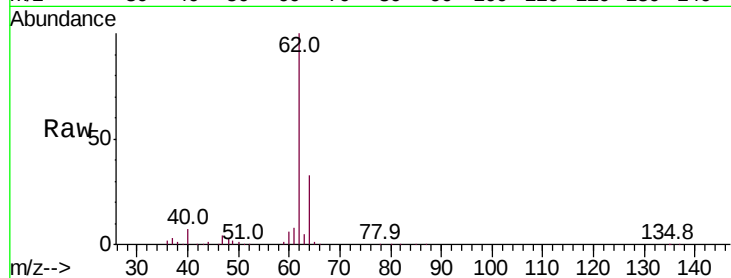
64 32.7 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 10.267 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033359.D

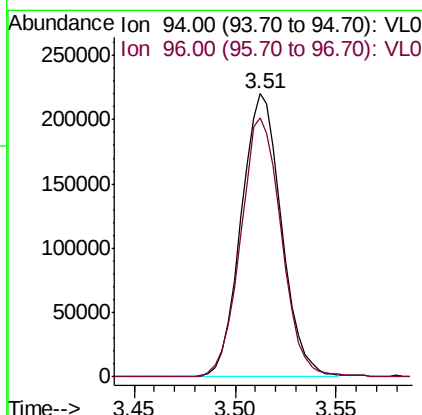
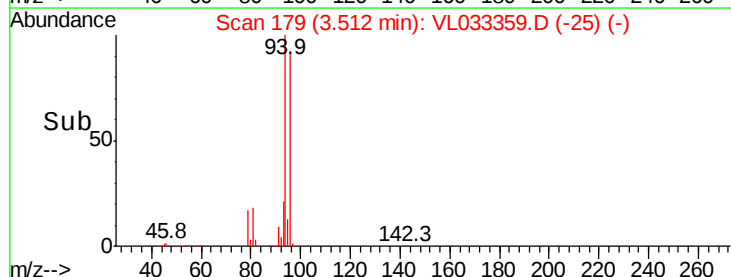
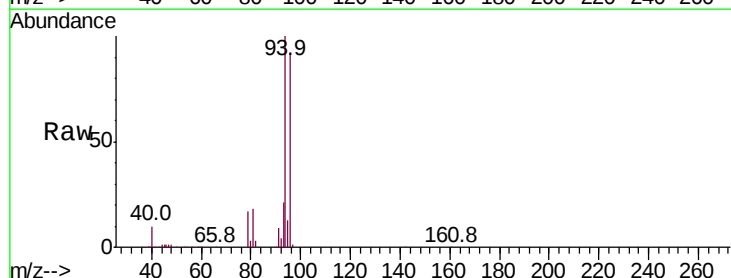
Acq: 18 Mar 2019 14:51

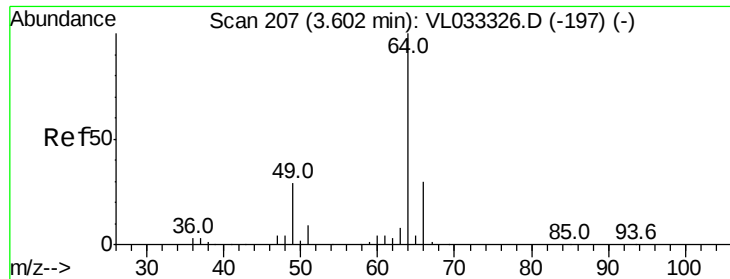
Tgt Ion: 94 Resp: 308867

Ion Ratio Lower Upper

94 100

96 91.6 74.6 111.8





#7

Chloroethane

Concen: 10.213 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 180624

Ion Ratio Lower Upper

64 100

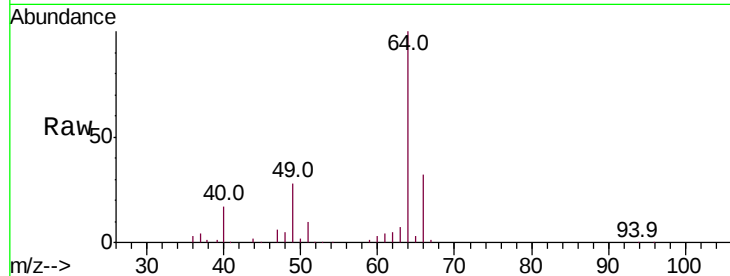
66 31.9 24.0 36.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

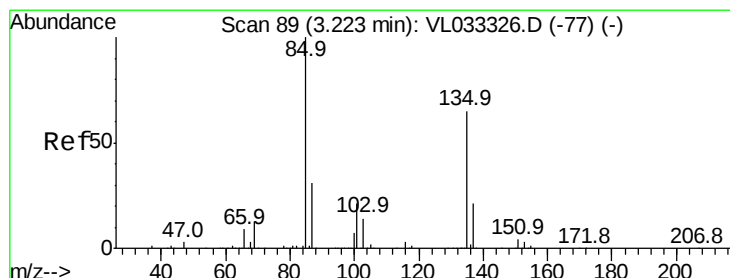
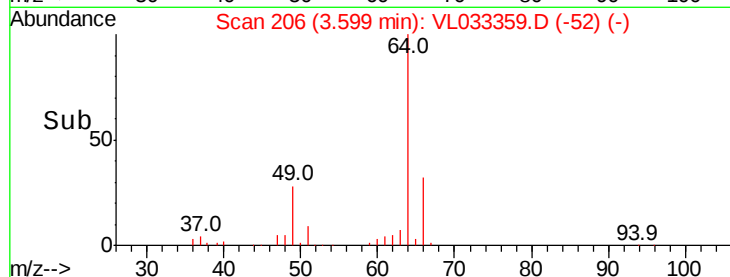
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.074 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033359.D

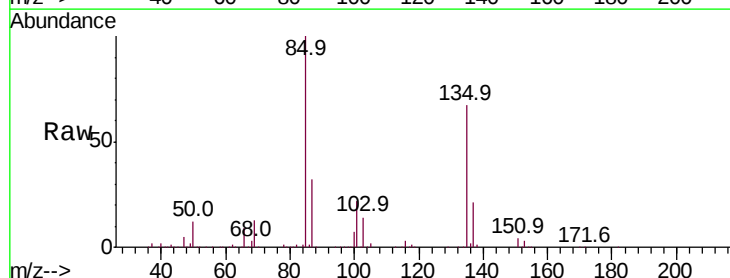
Acq: 18 Mar 2019 14:51

Tgt Ion: 85 Resp: 1190520

Ion Ratio Lower Upper

85 100

135 66.8 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

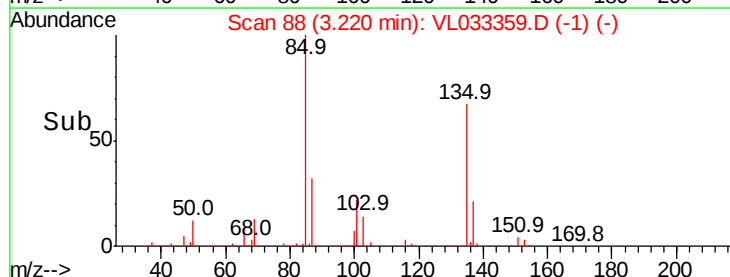
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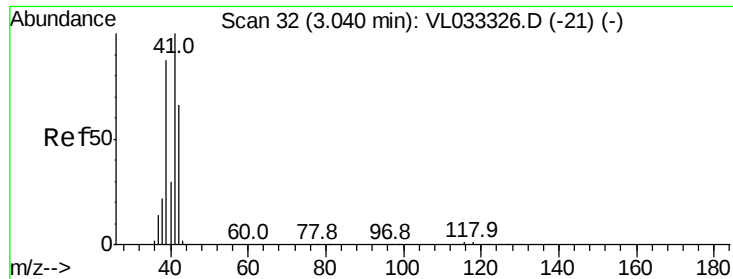
200000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 9.667 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 390993

Ion Ratio Lower Upper

41 100

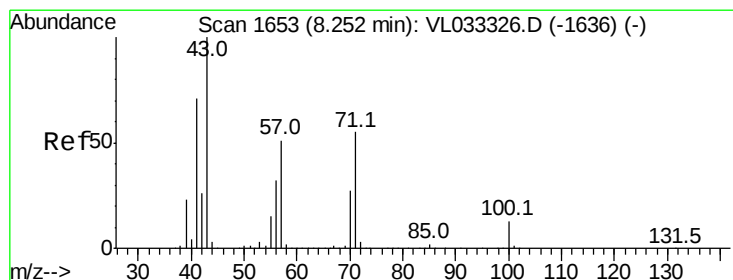
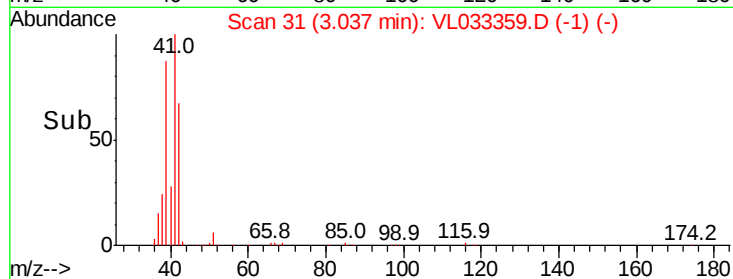
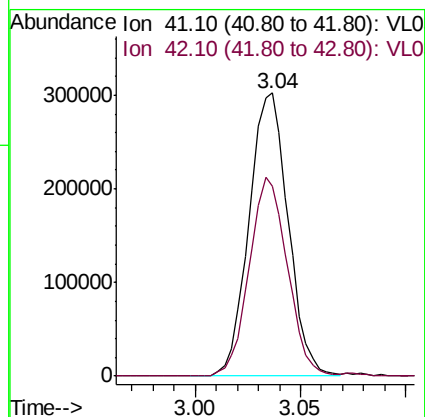
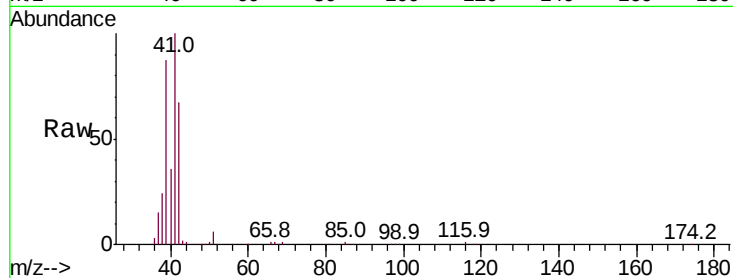
42 68.8 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 10.082 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033359.D

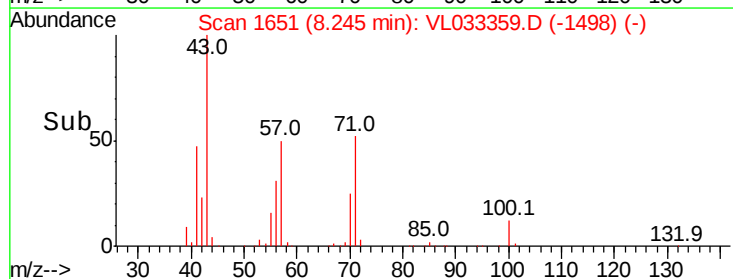
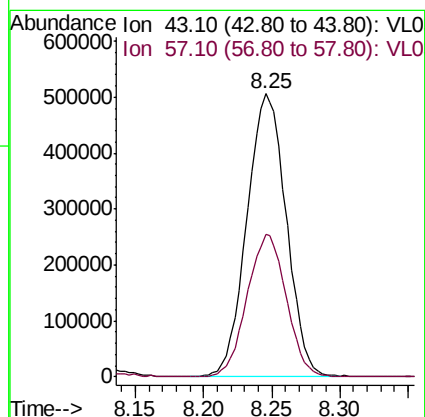
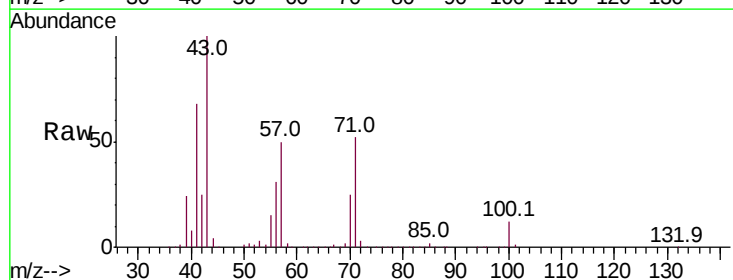
Acq: 18 Mar 2019 14:51

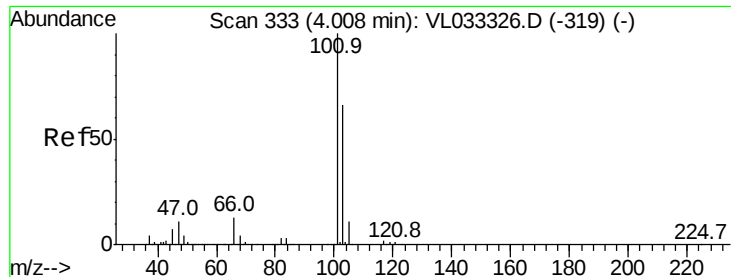
Tgt Ion: 43 Resp: 1011411

Ion Ratio Lower Upper

43 100

57 49.9 40.4 60.6





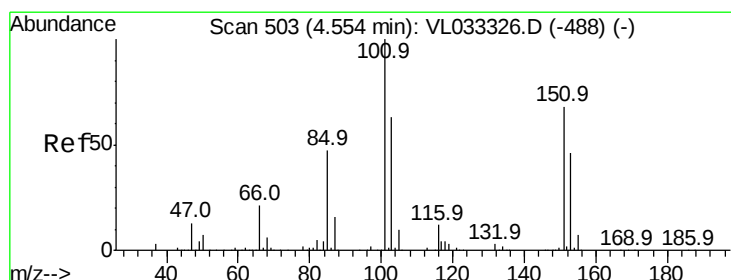
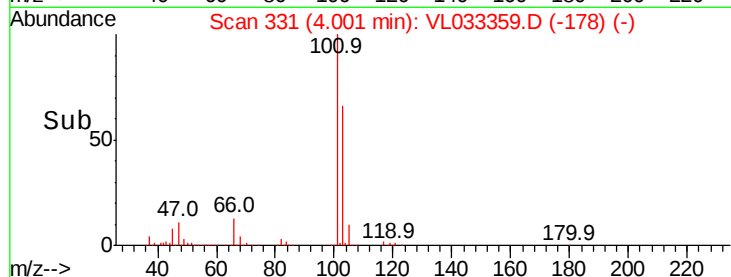
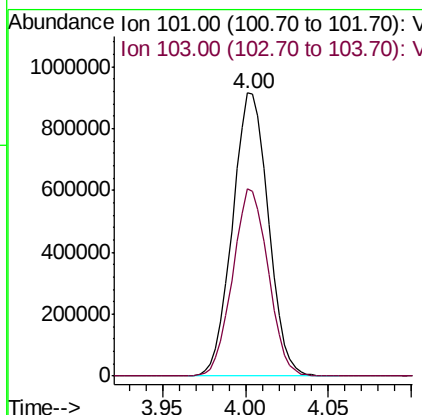
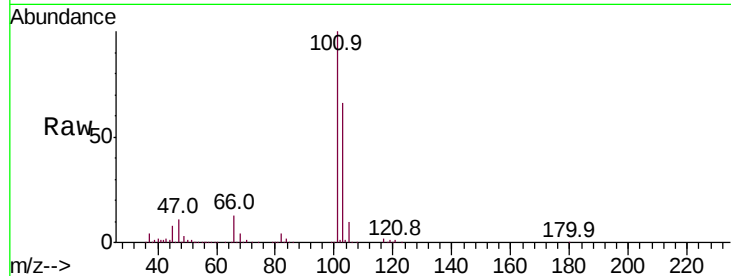
#11
 Trichlorofluoromethane
 Concen: 9.961 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDCCC010

Tot Ion:101 Resp: 1376836
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.9 79.3

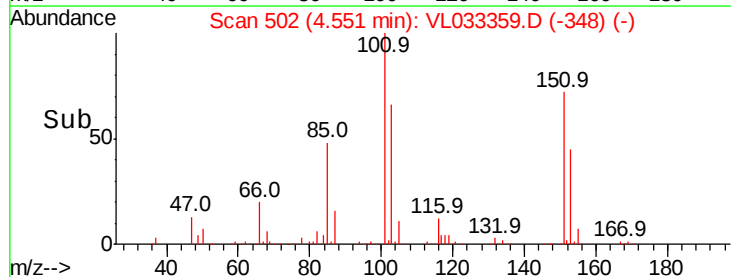
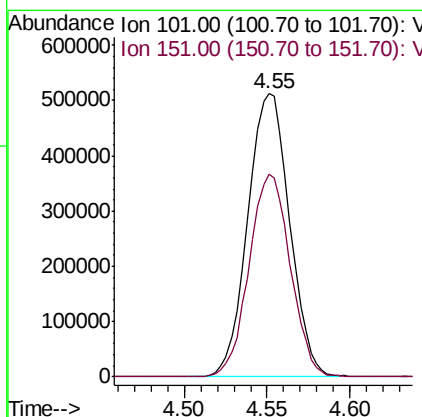
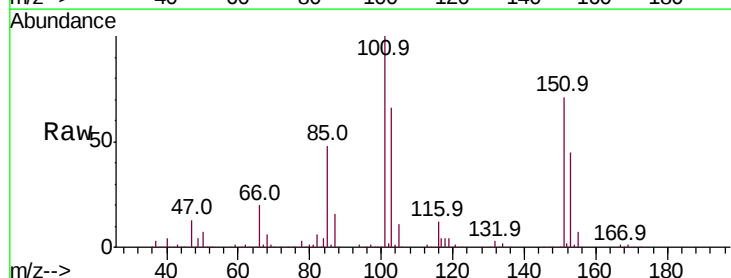
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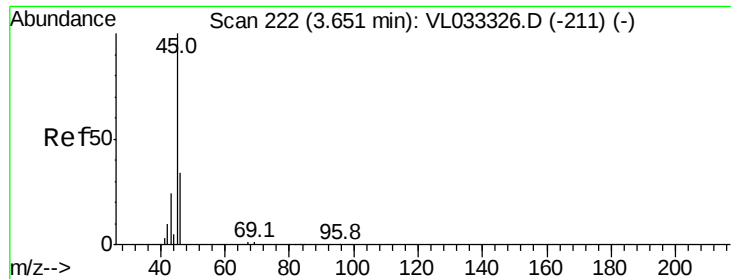
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.803 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Tgt Ion:101 Resp: 899064
 Ion Ratio Lower Upper
 101 100
 151 70.6 56.3 84.5





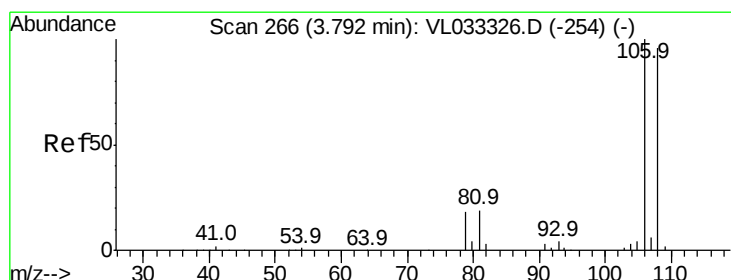
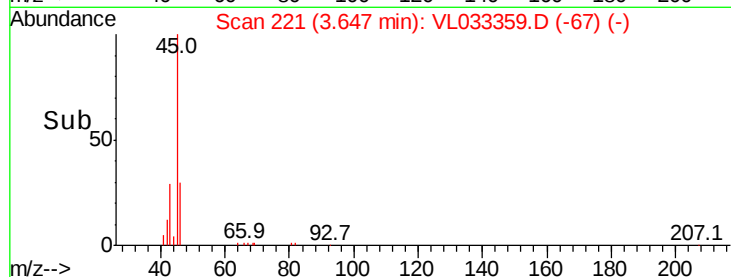
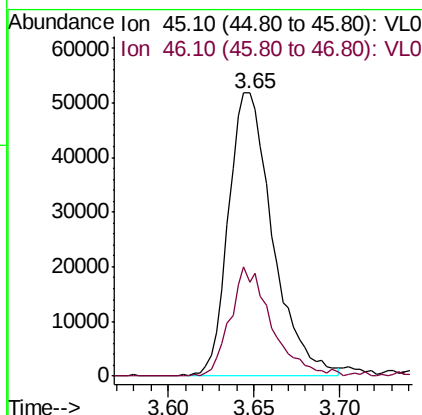
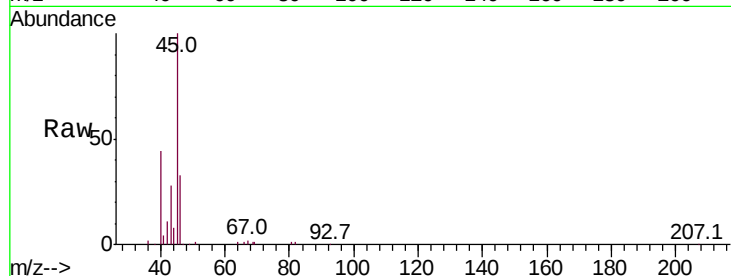
#13
Ethanol
Concen: 4.806 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 92661
Ion Ratio Lower Upper
45 100
46 37.1 14.9 59.7

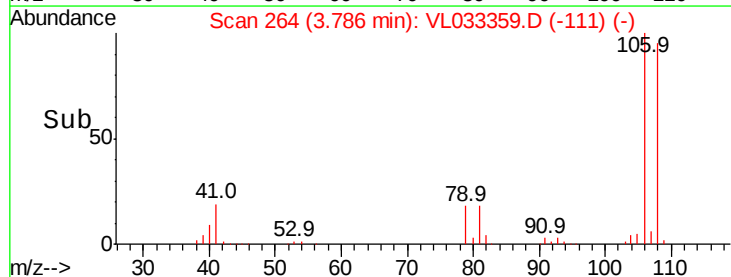
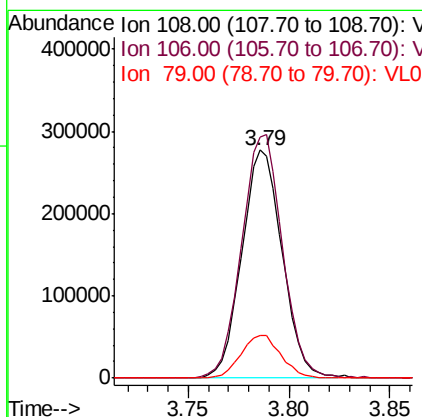
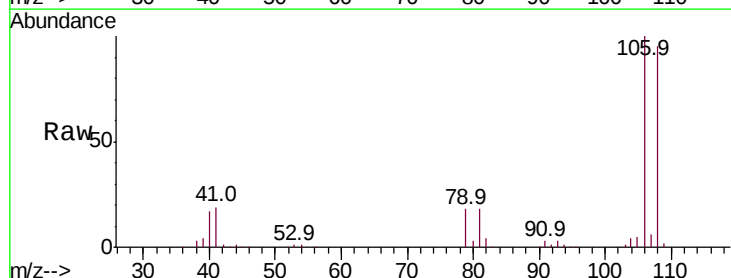
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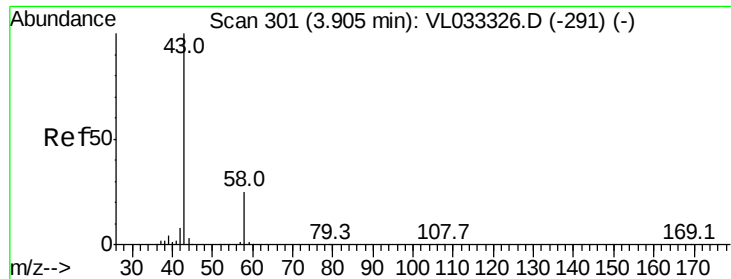
MMDadoda
3/21/2019 12:14:18 PM



#14
Bromoethene
Concen: 10.206 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 108 Resp: 390136
Ion Ratio Lower Upper
108 100
106 108.1 86.2 129.2
79 19.0 15.4 23.2





#15

Acetone

Concen: 7.158 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 878299

Ion Ratio Lower Upper

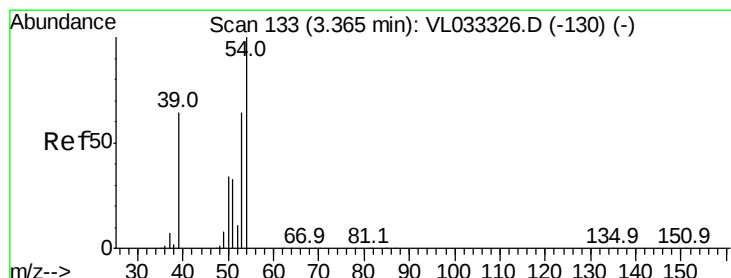
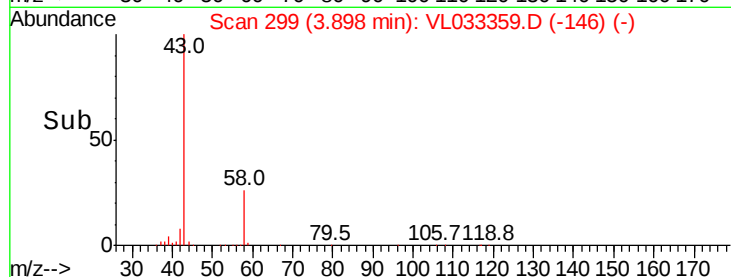
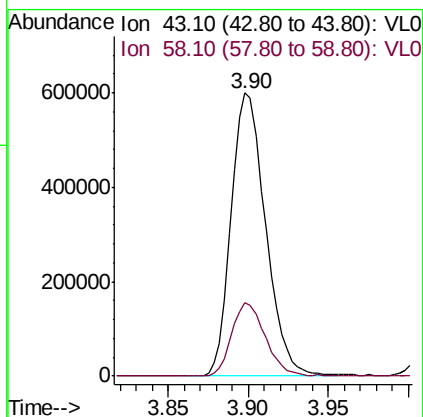
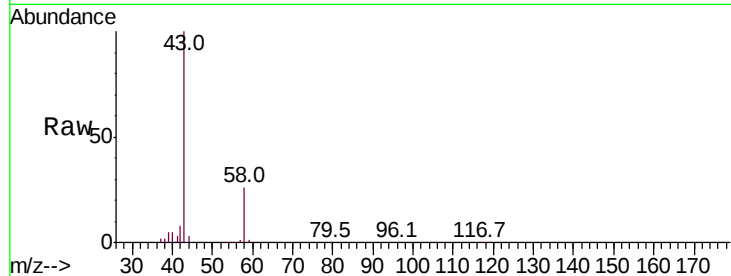
43 100

58 25.4 20.4 30.6

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#16

1,3-Butadiene

Concen: 10.867 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033359.D

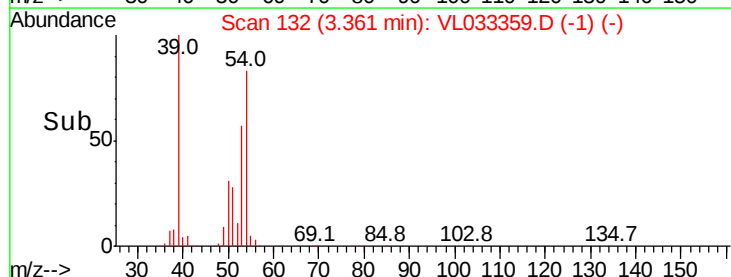
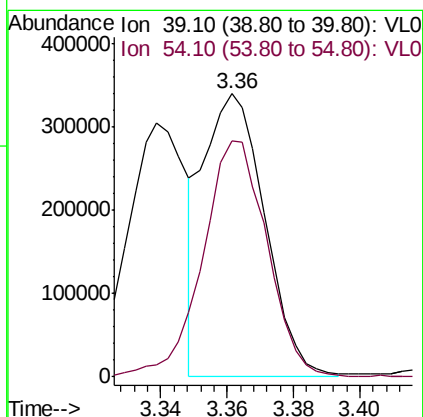
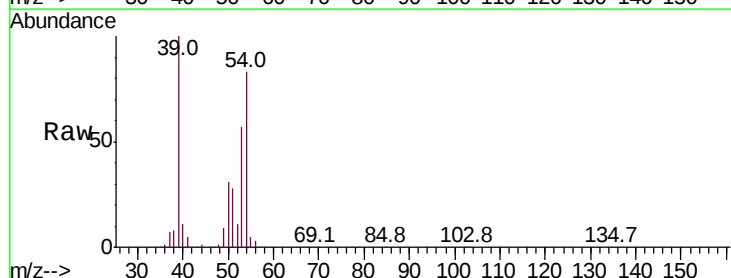
Acq: 18 Mar 2019 14:51

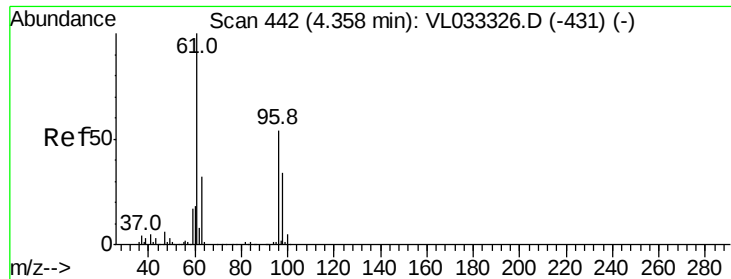
Tgt Ion: 39 Resp: 433110

Ion Ratio Lower Upper

39 100

54 89.1 76.8 115.2





#17

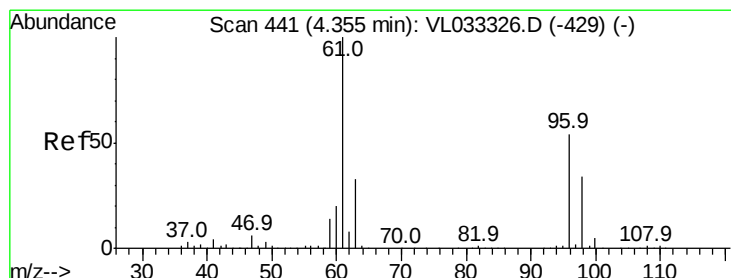
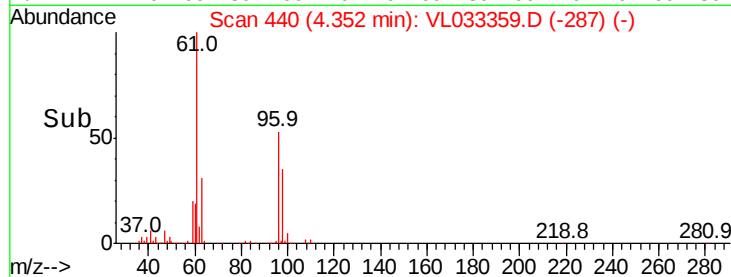
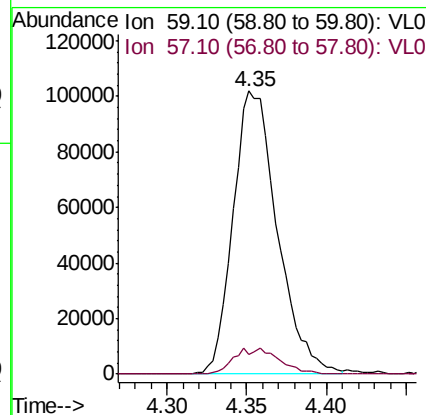
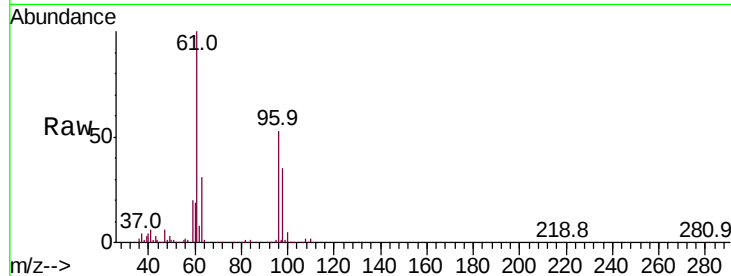
tert-Butyl alcohol
Concen: 11.145 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 192453
Ion Ratio Lower Upper
59 100
57 9.5 7.7 11.5

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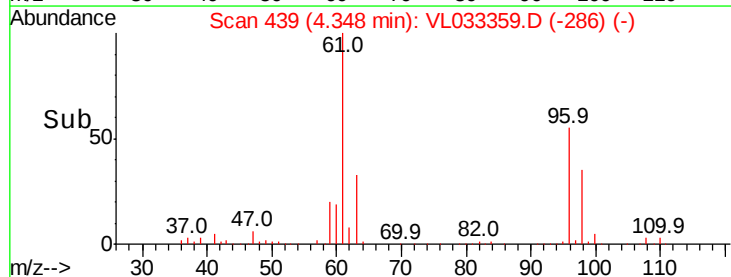
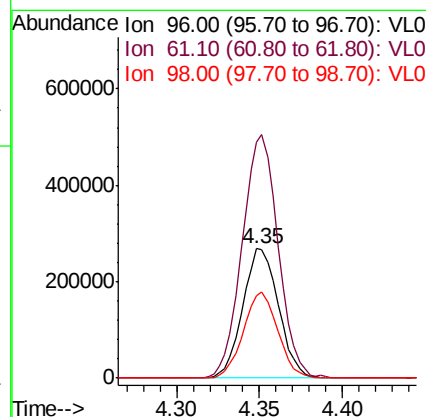
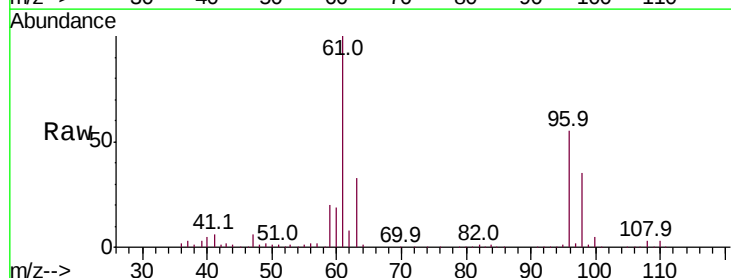
MMDadoda
3/21/2019 12:14:18 PM

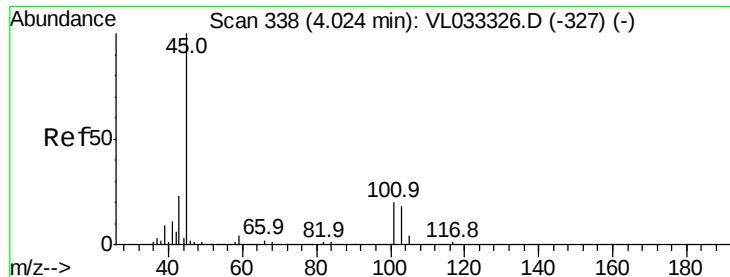


#18

1,1-Dichloroethene
Concen: 9.609 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 96 Resp: 402965
Ion Ratio Lower Upper
96 100
61 182.7 148.6 222.8
98 63.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 11.195 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 653424

Ion Ratio Lower Upper

45 100

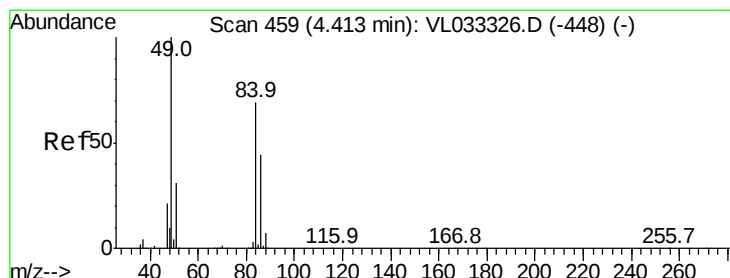
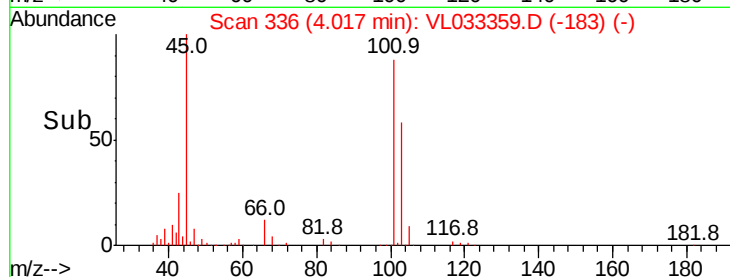
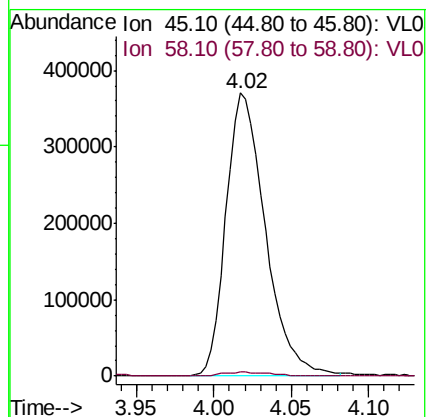
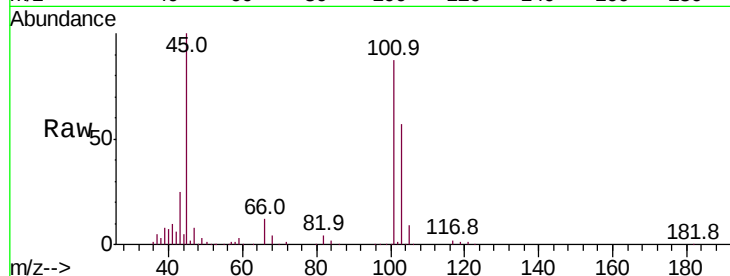
58 2.1 1.5 2.3

Manual Integrations

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#20

Methylene Chloride

Concen: 8.264 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion: 84 Resp: 330713

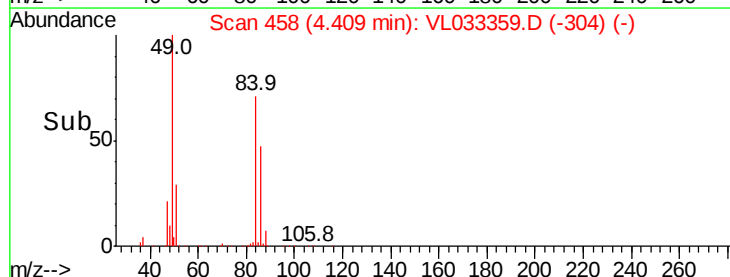
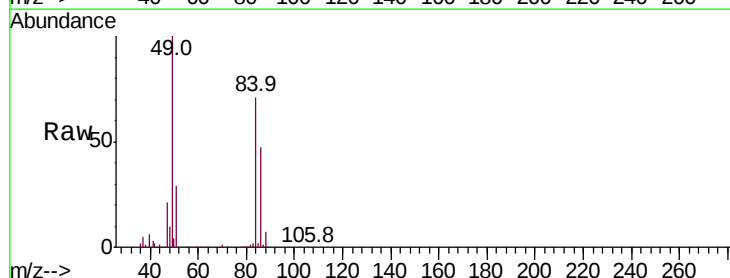
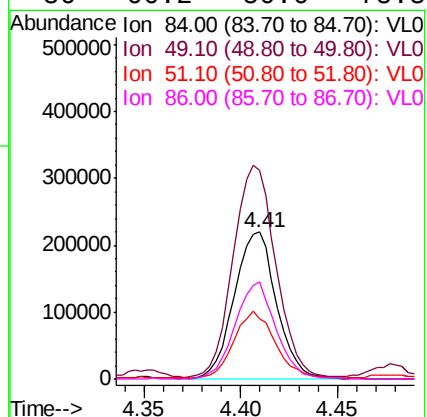
Ion Ratio Lower Upper

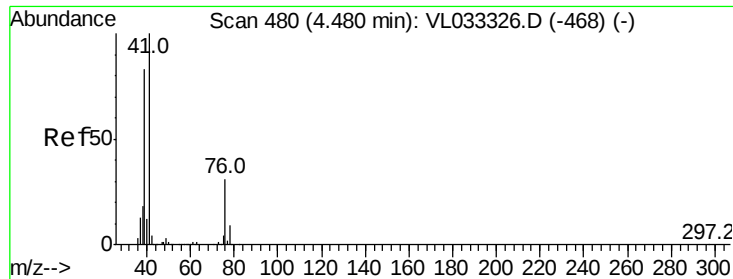
84 100

49 140.8 115.4 173.0

51 40.3 35.8 53.6

86 66.2 50.6 75.8





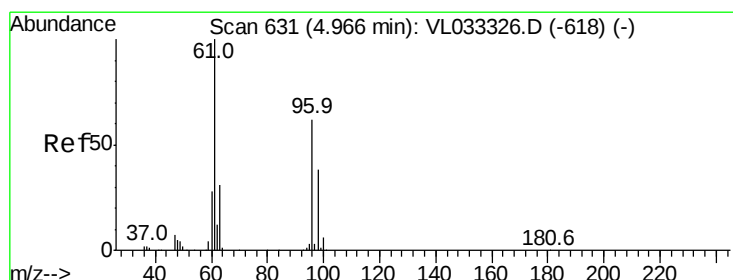
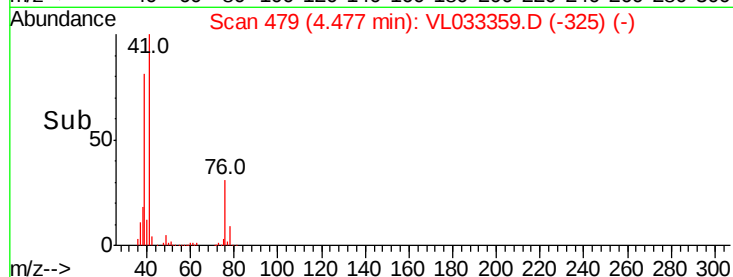
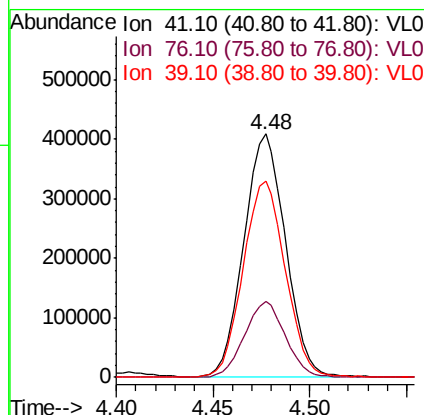
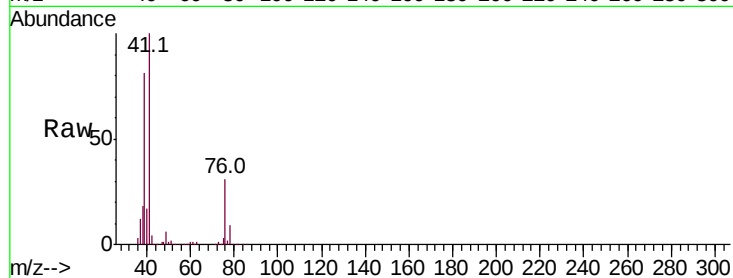
#21
Allvl Chloride
Concen: 10.275 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	25.0	37.4
39	81.9	65.9	98.9

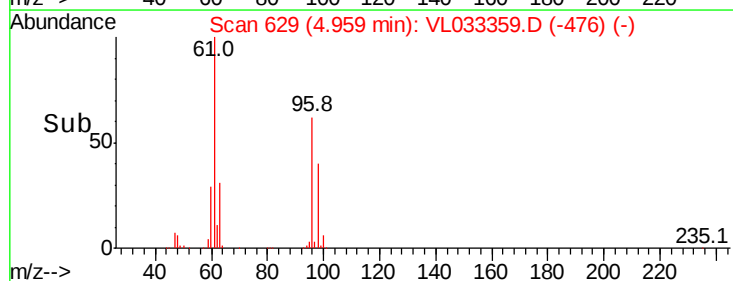
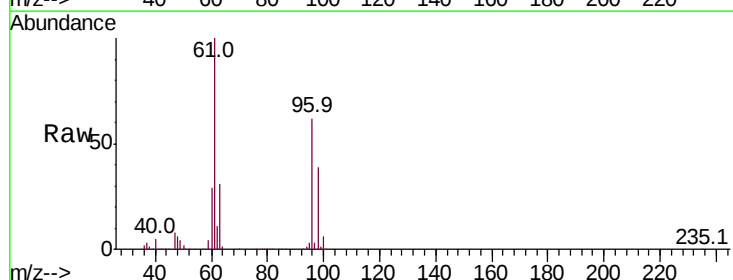
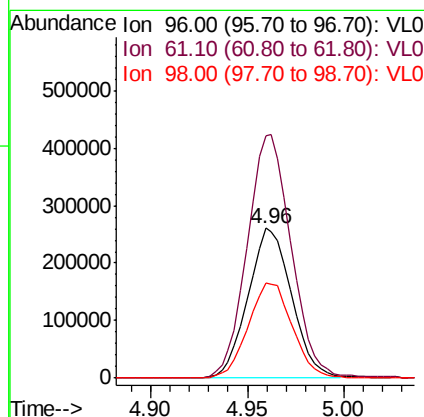
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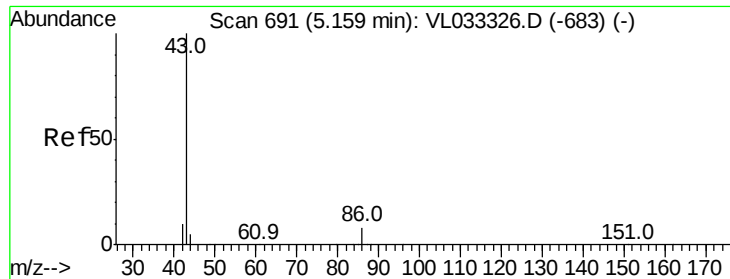
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#22
trans-1,2-Dichloroethene
Concen: 10.046 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.8	130.0	195.0
98	63.7	50.0	75.0





#23

Vinyl Acetate

Concen: 10.180 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 43 Resp: 1445345

Ion Ratio Lower Upper

43 100

86 7.2 6.2 9.2

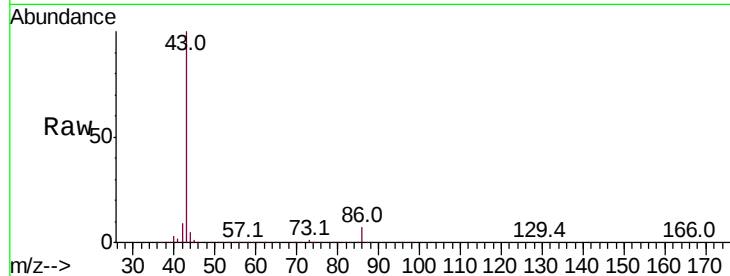
42 9.4 8.1 12.1

44 5.0 4.1 6.1

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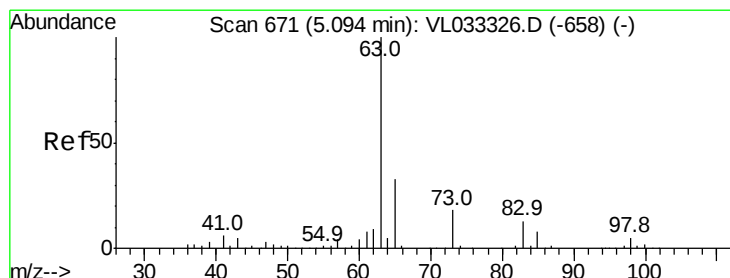
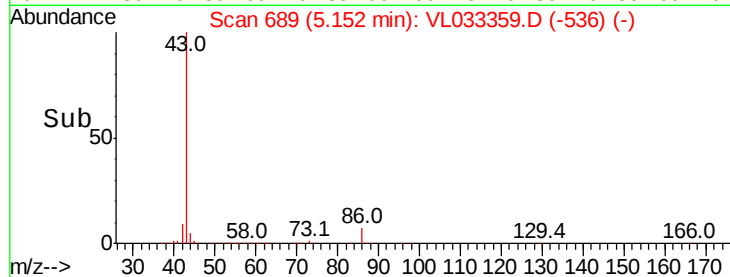
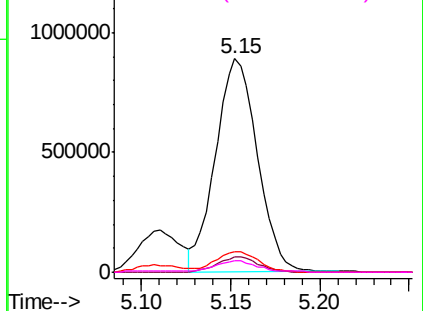


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.969 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

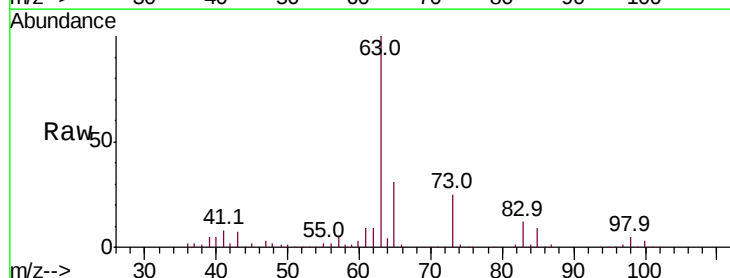
Tgt Ion: 63 Resp: 1022190

Ion Ratio Lower Upper

63 100

98 4.6 2.4 7.1

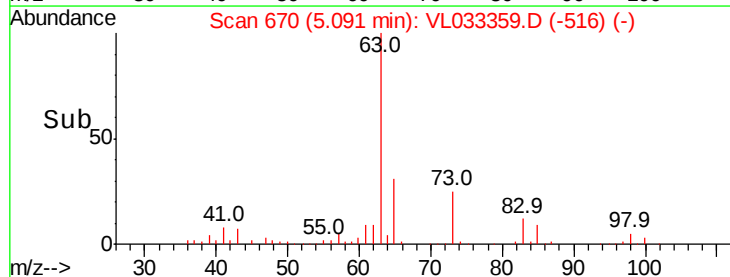
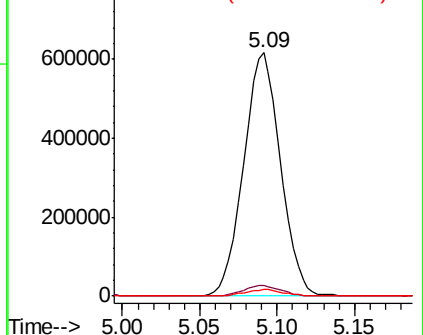
100 2.6 1.3 3.8

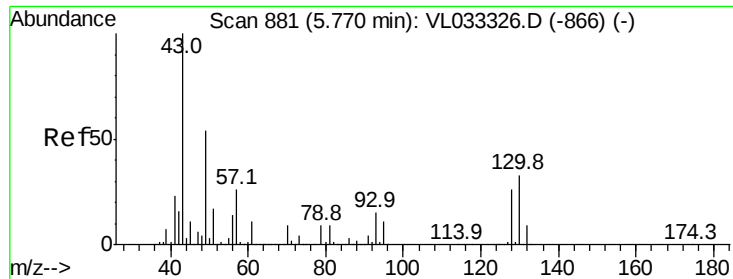


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





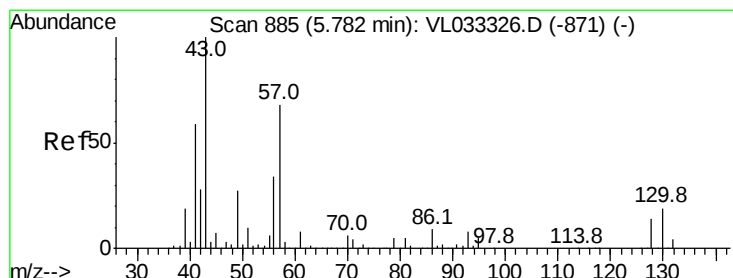
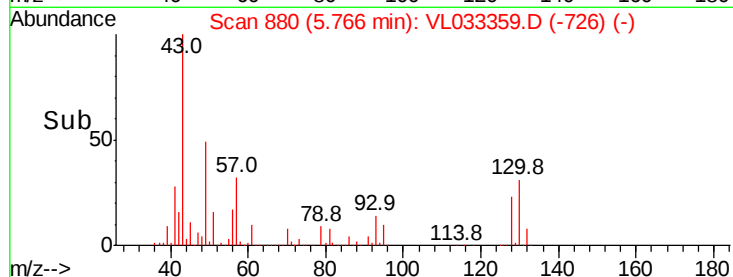
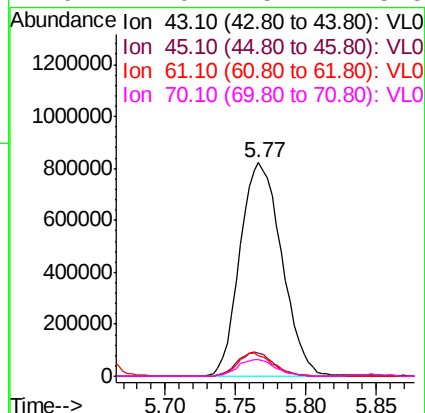
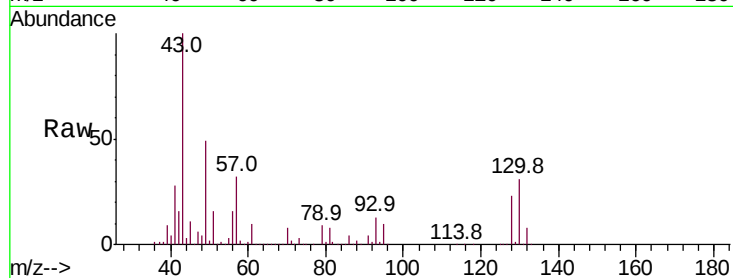
#25
Ethyl Acetate
Concen: 9.581 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	1708986
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.2	7.4	11.2
70	7.0	5.7	8.5

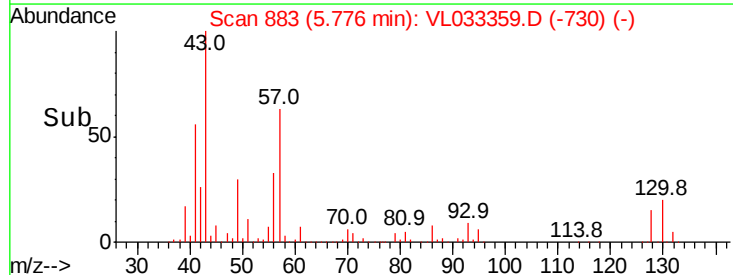
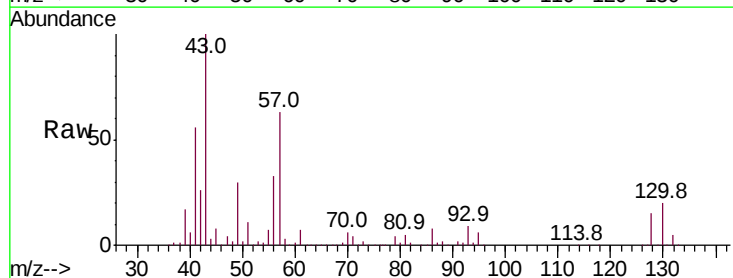
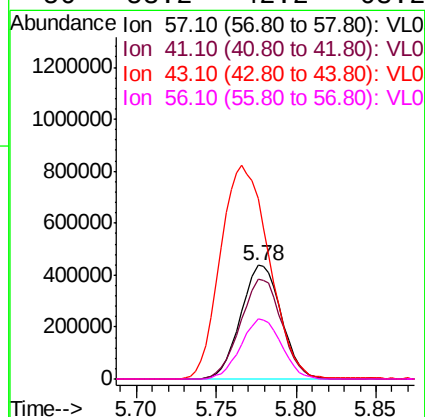
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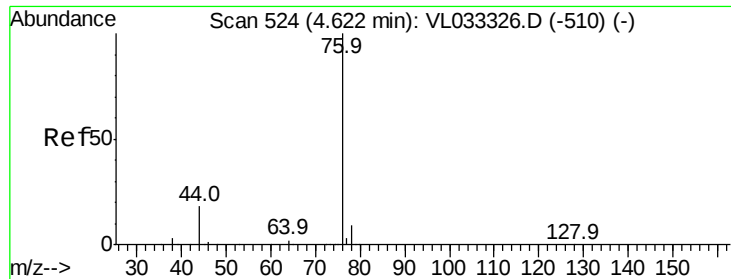
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#26
Hexane
Concen: 9.464 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	57	Resp	754660
Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.5	105.7
43	228.0	181.8	272.8
56	53.2	42.2	63.2





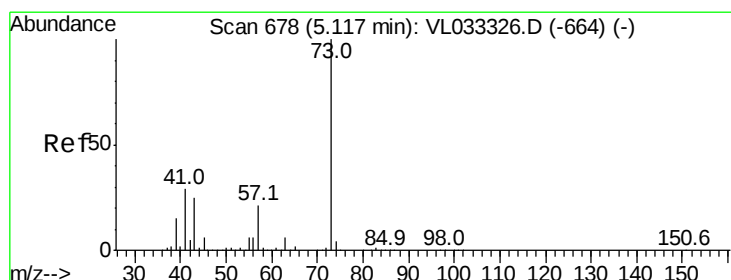
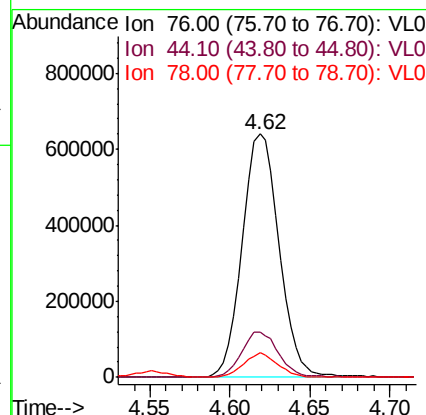
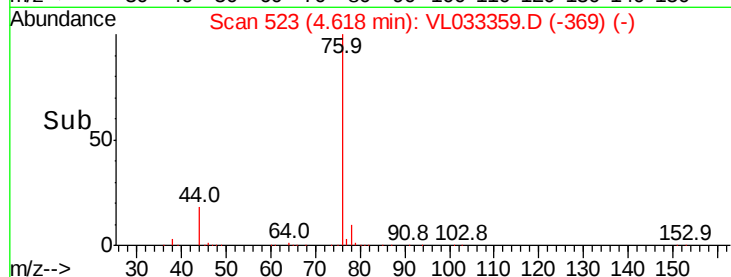
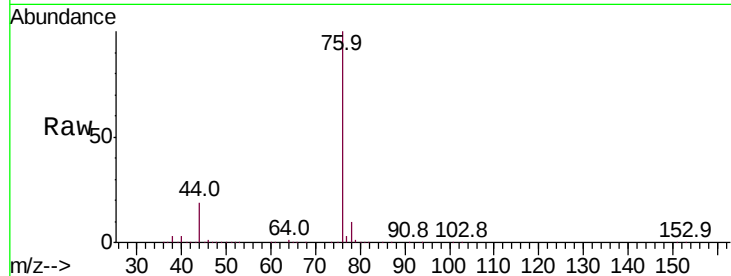
#27
Carbon Disulfide
Concen: 10.925 ppbv
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 76 Resp: 1002920
Ion Ratio Lower Upper
76 100
44 18.4 15.2 22.8
78 9.4 7.2 10.8

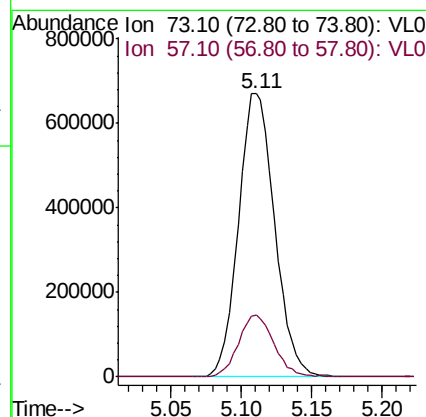
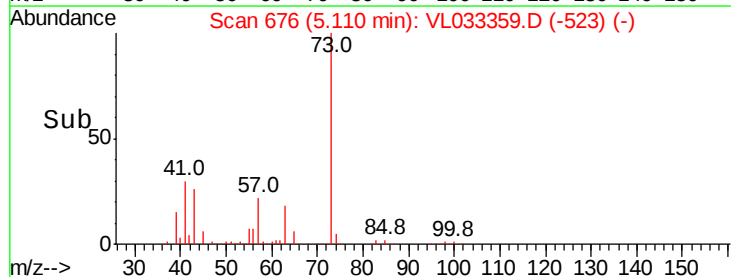
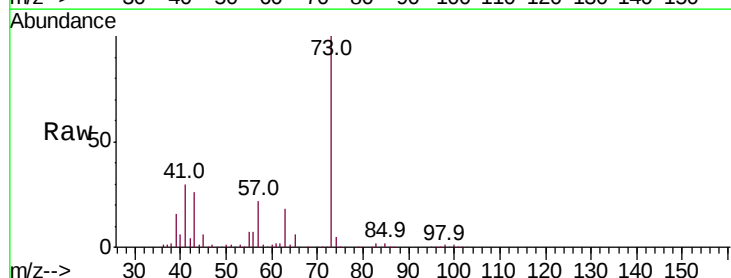
Manual Integrations
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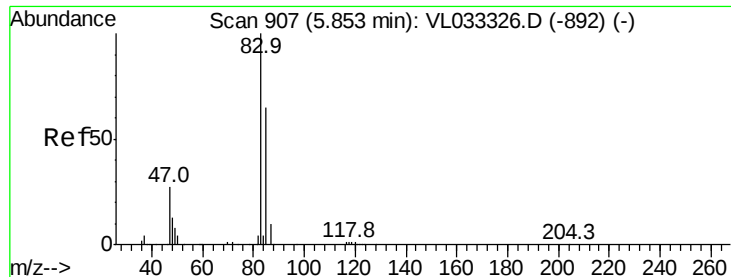
MMDadoda
3/21/2019 12:14:18 PM



#28
Methyl tert-Butyl Ether
Concen: 10.154 ppbv
RT: 5.11 min Scan# 676
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 73 Resp: 1202686
Ion Ratio Lower Upper
73 100
57 21.6 17.4 26.0





#29

Chloroform

Concen: 9.977 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1302745

Ion Ratio Lower Upper

83 100

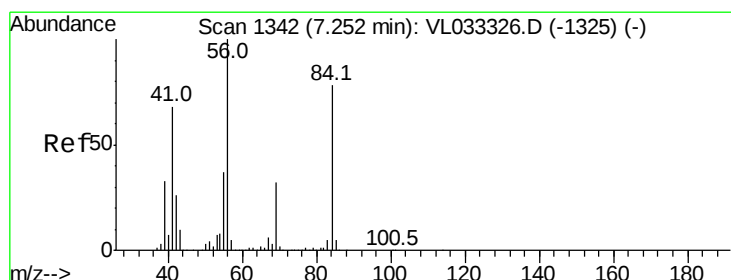
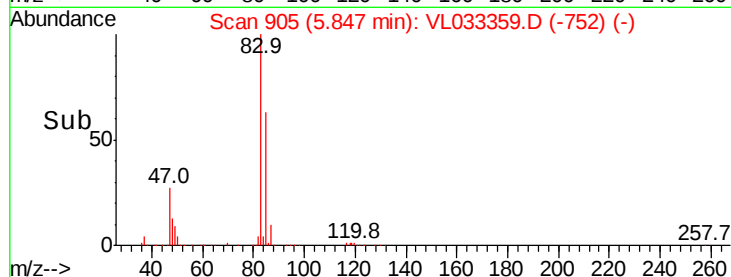
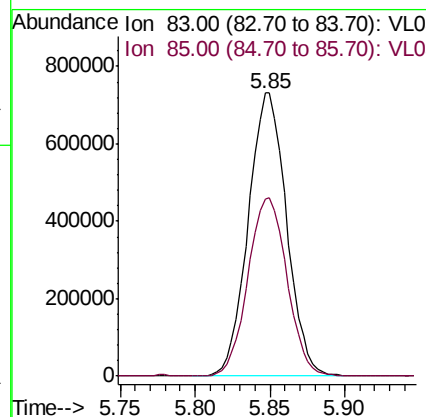
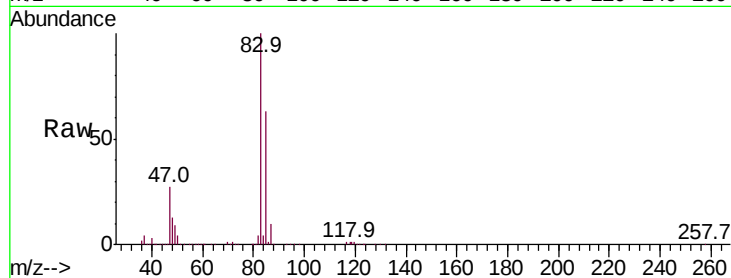
85 62.6 52.0 78.0

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#30

Cyclohexane

Concen: 9.978 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

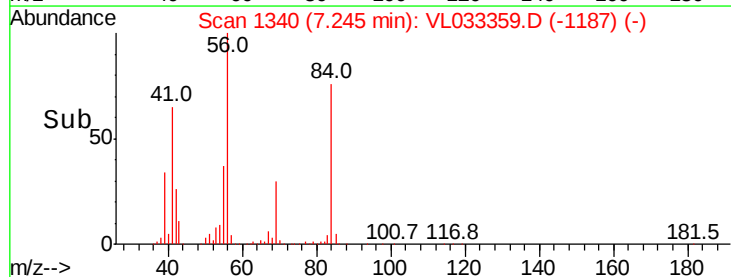
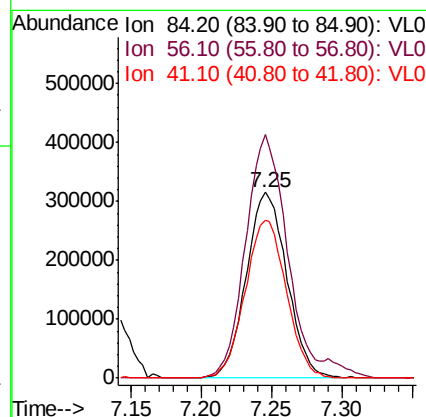
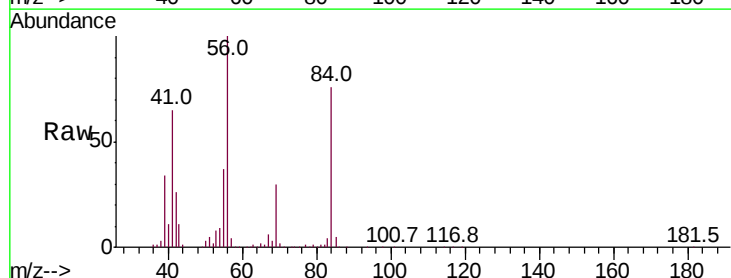
Tgt Ion: 84 Resp: 637910

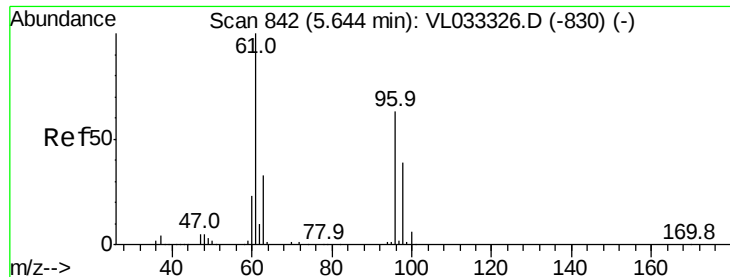
Ion Ratio Lower Upper

84 100

56 137.8 111.3 166.9

41 86.4 69.6 104.4





#31

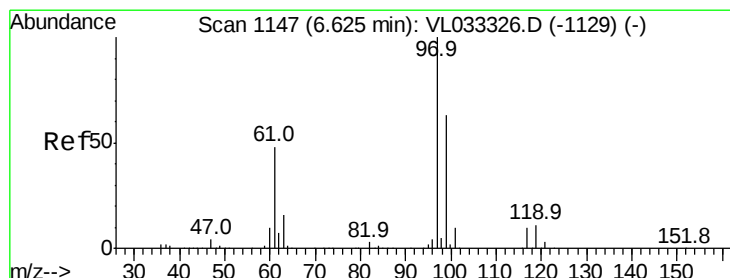
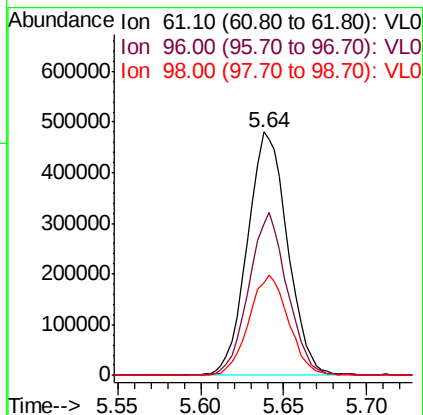
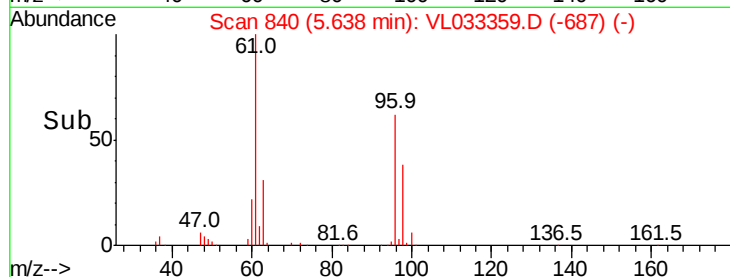
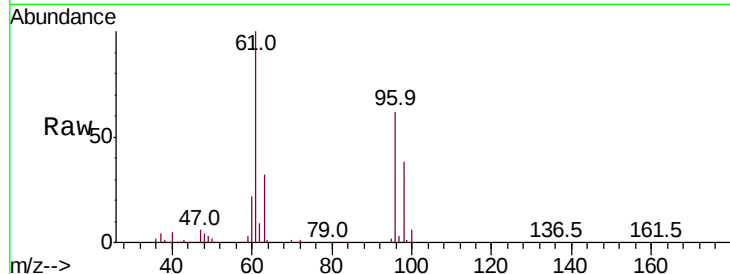
cis-1,2-Dichloroethene
Concen: 10.137 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.2	50.3	75.5
98	38.2	31.5	47.3

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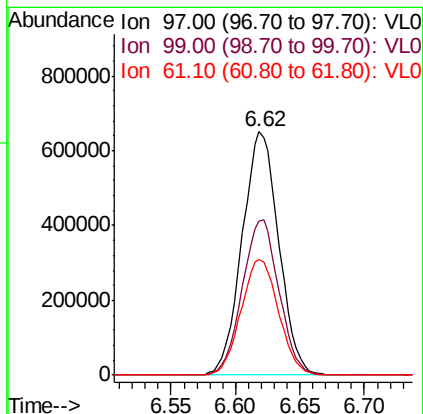
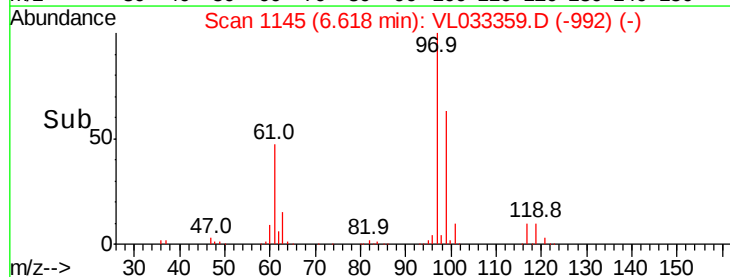
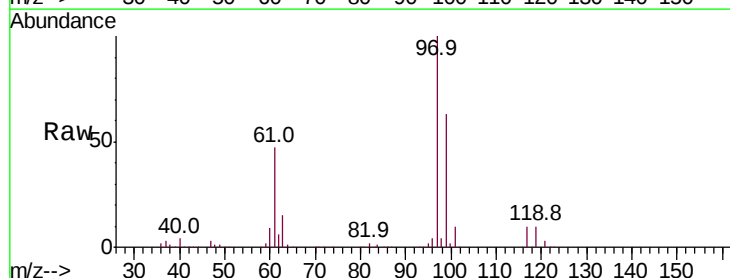
MMDadoda
3/21/2019 12:14:18 PM

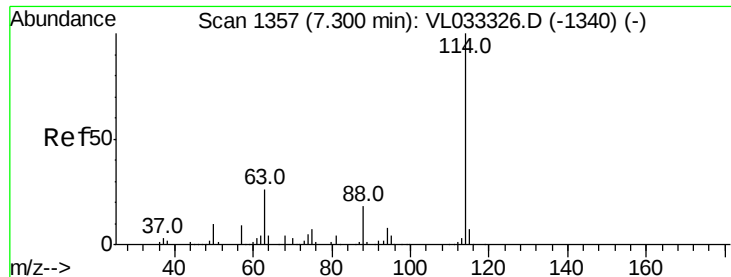


#32

1,1,1-Trichloroethane
Concen: 10.040 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.0	76.6
61	48.9	39.3	58.9





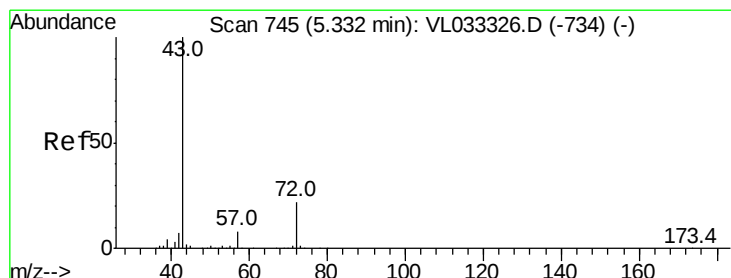
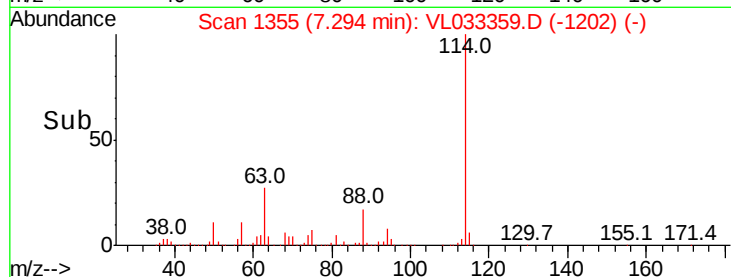
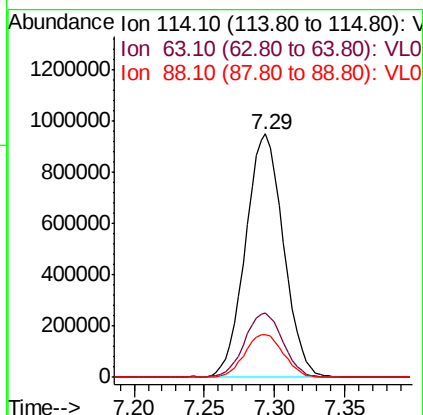
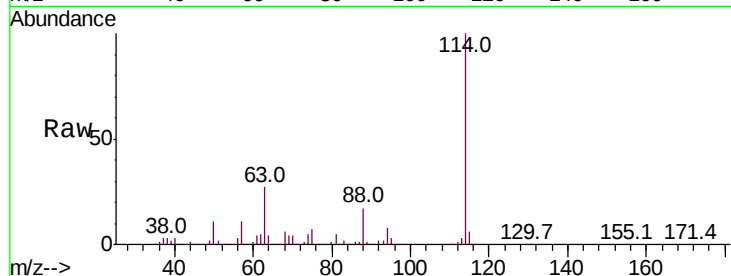
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 1790091
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.4 32.2
 88 18.0 14.5 21.7

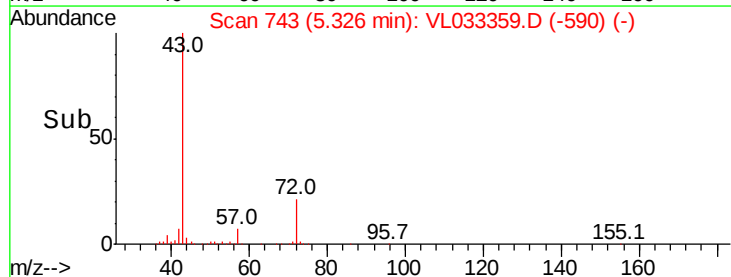
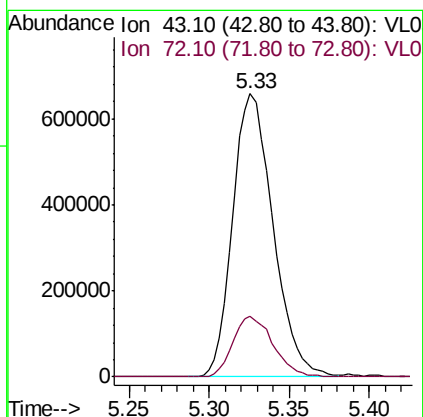
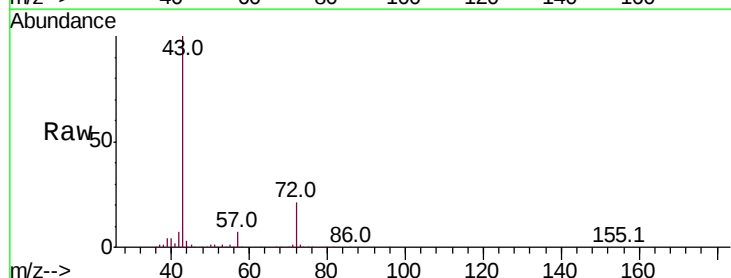
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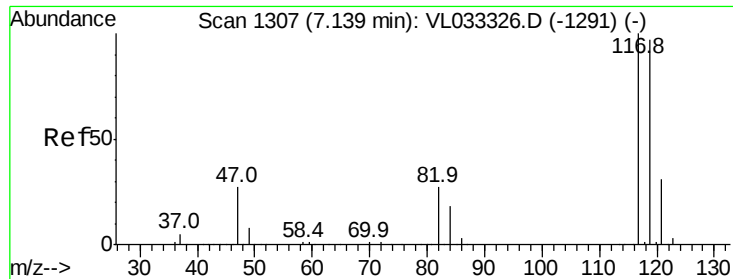
MMDadoda
 3/21/2019 12:14:18 PM



#34
 2-Butanone
 Concen: 9.566 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Tgt Ion: 43 Resp: 1124604
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.7 26.5





#35

Carbon Tetrachloride

Concen: 10.622 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1340566

Ion Ratio Lower Upper

117 100

119 95.7 77.4 116.0

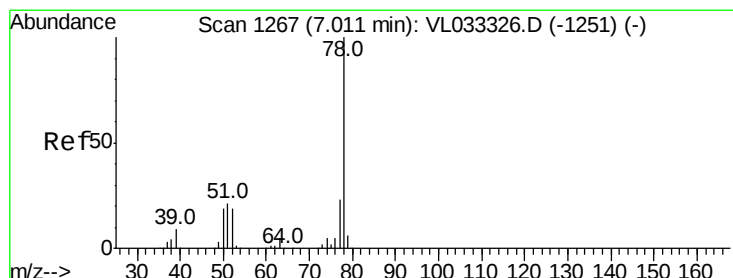
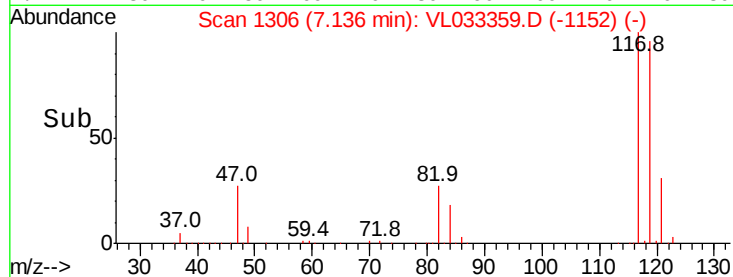
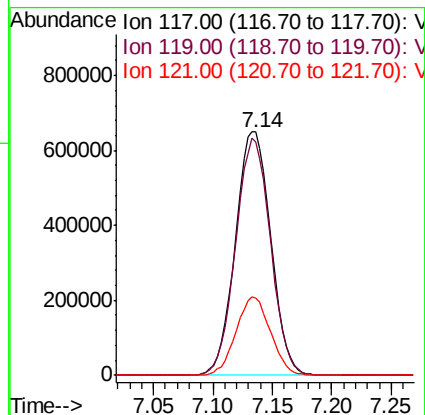
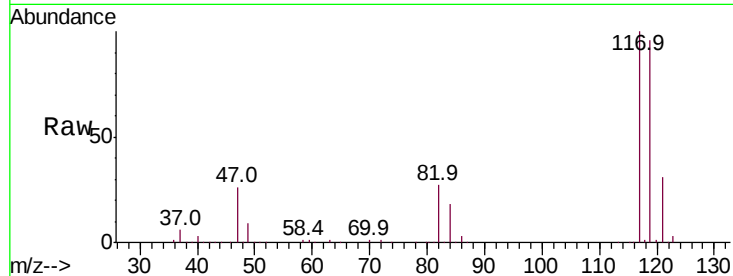
121 31.5 24.9 37.3

Manual Integrations

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#36

Benzene

Concen: 9.913 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

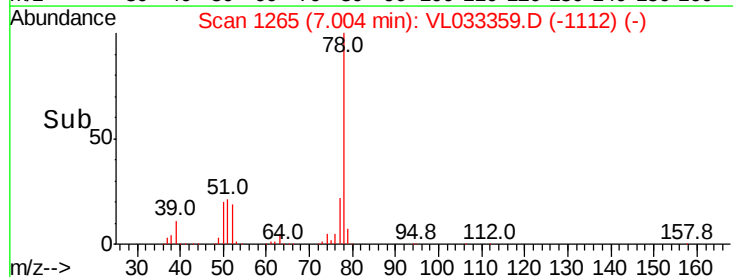
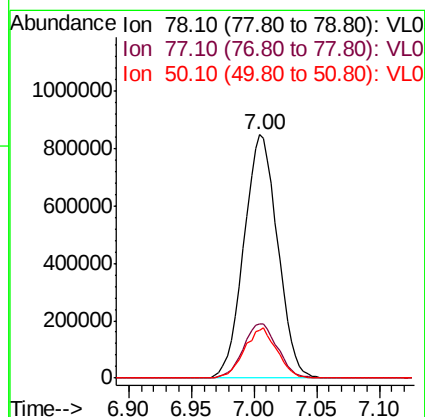
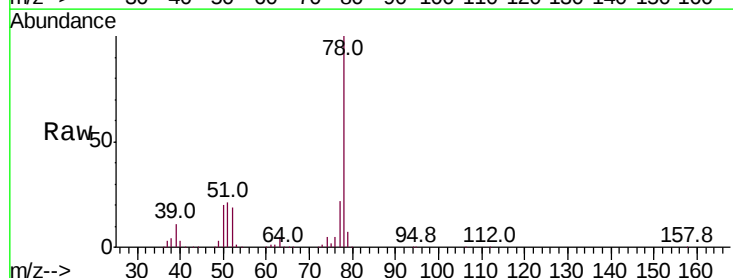
Tgt Ion: 78 Resp: 1588109

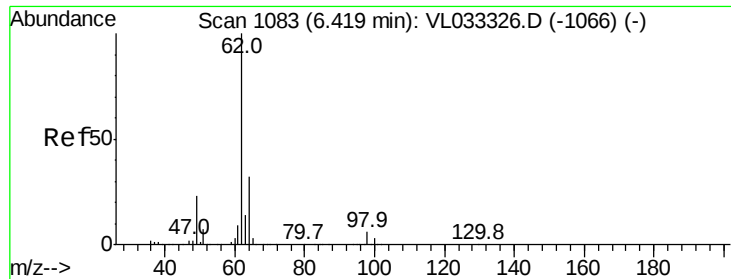
Ion Ratio Lower Upper

78 100

77 22.4 18.1 27.1

50 19.9 15.2 22.8





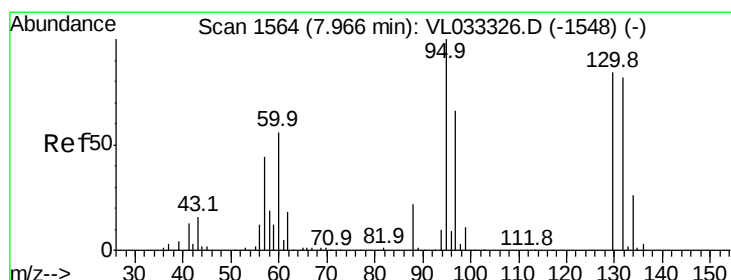
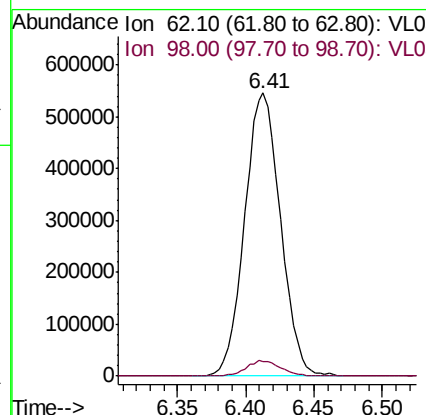
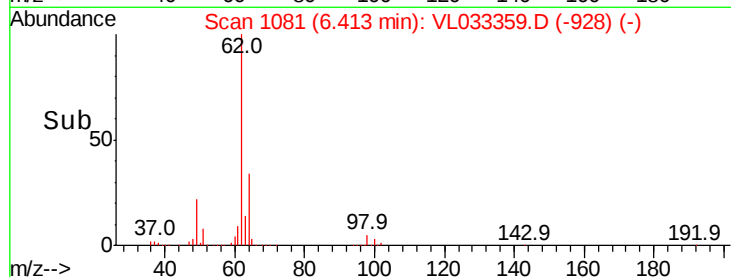
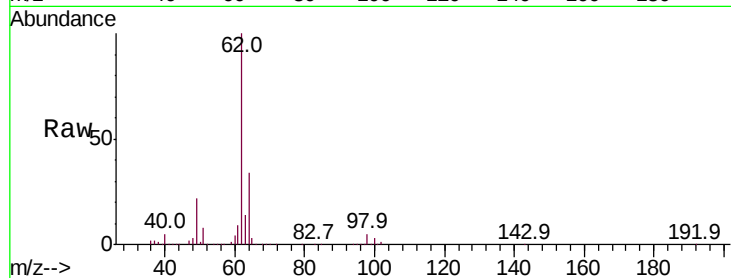
#37
 1,2-Dichloroethane
 Concen: 9.823 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
62	100	995057		
98	5.3	4.5	6.7	

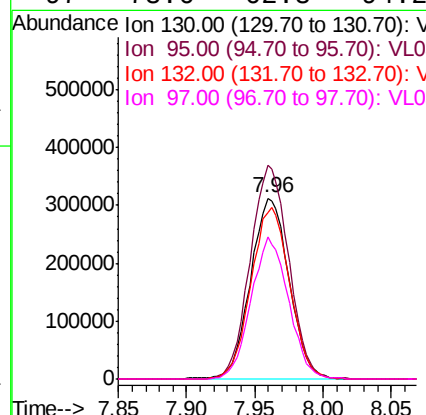
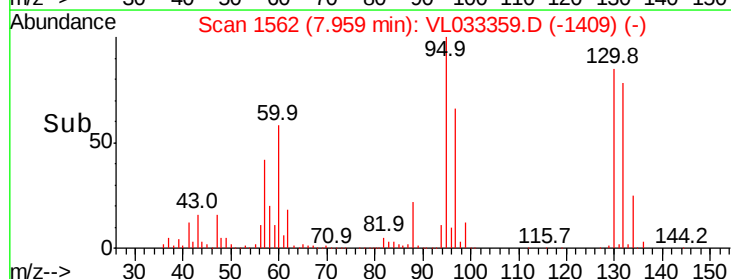
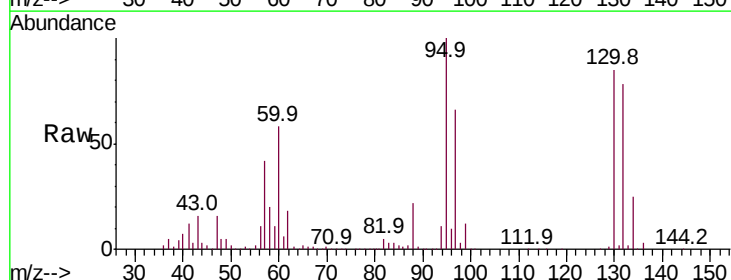
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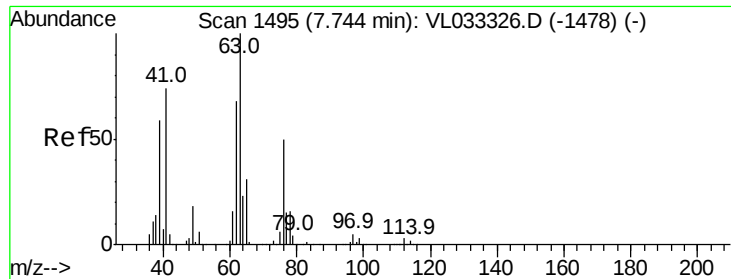
MMDadoda
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#38
 Trichloroethene
 Concen: 9.993 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	605812		
95	118.4	95.2	142.8	
132	91.9	77.7	116.5	
97	78.6	62.8	94.2	





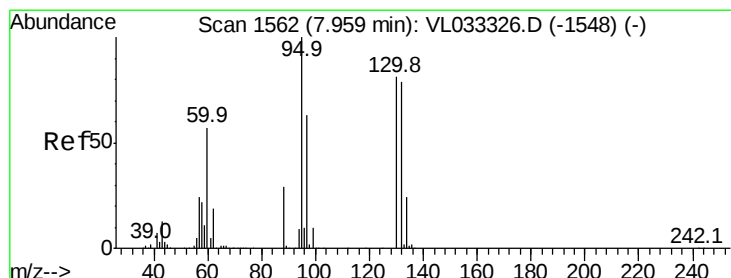
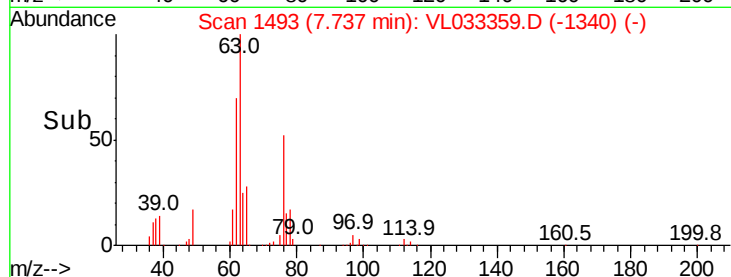
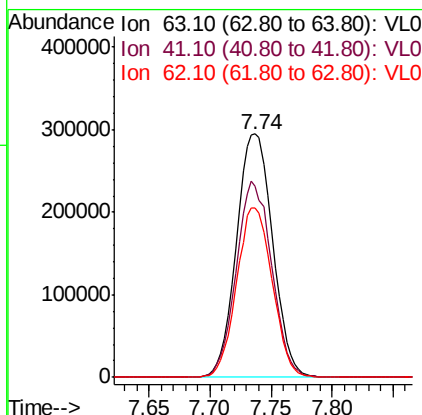
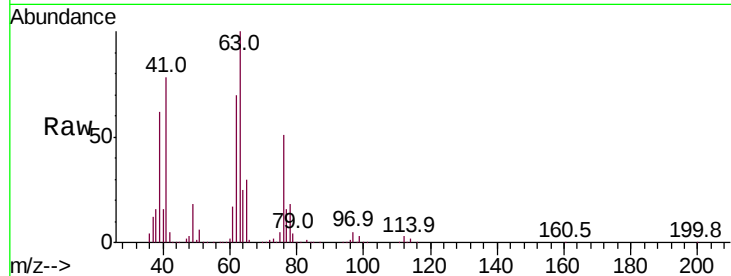
#39
 1,2-Dichloropropane
 Concen: 10.075 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.4	59.5	89.3
62	69.7	54.7	82.1

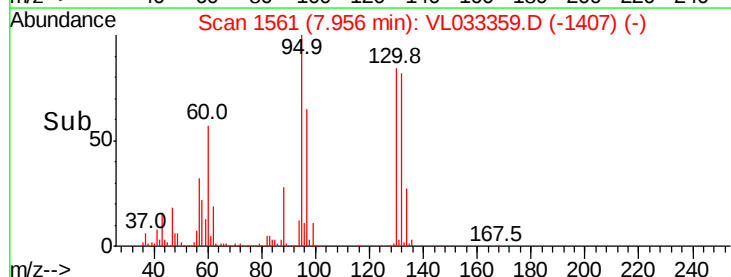
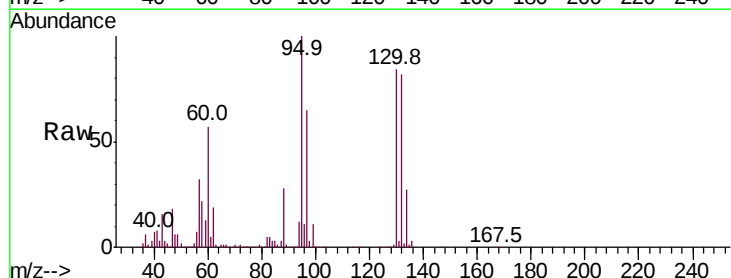
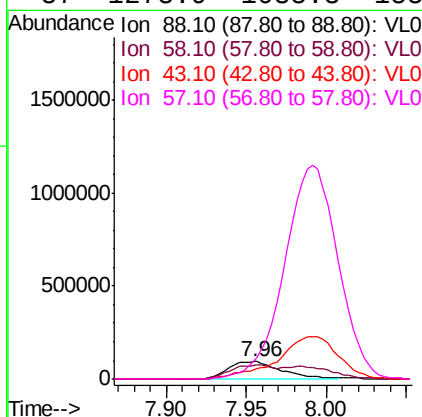
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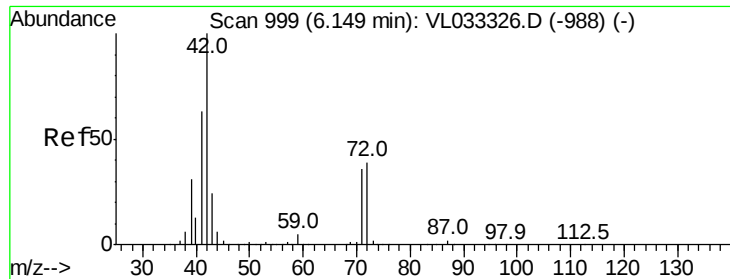
MMDadoda
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#40
 1,4-Dioxane
 Concen: 9.943 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.3	107.9	161.9
43	286.8	230.8	346.2
57	1278.9	1035.3	1552.9





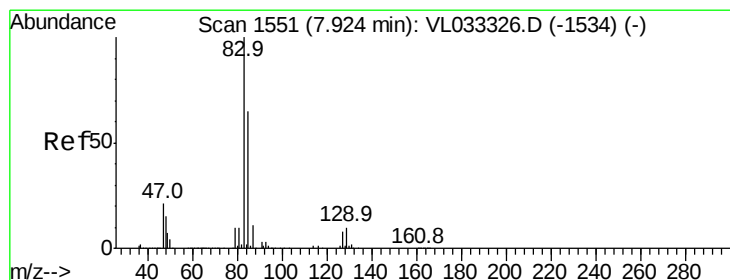
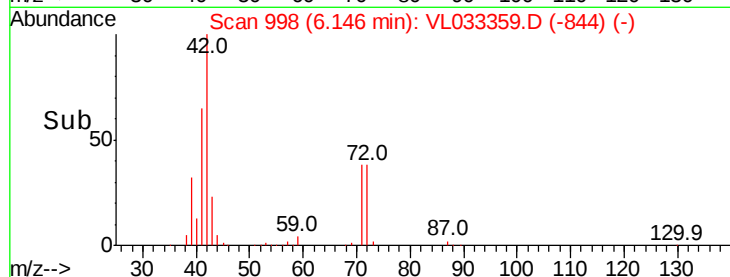
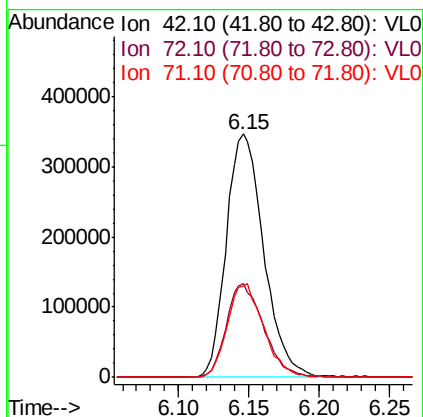
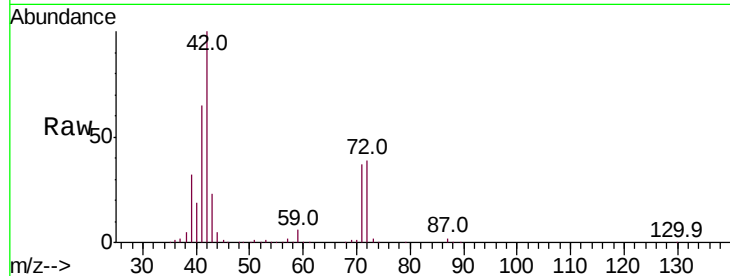
#41
Tetrahydrofuran
Concen: 10.266 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.4	31.6	47.4
71	37.5	29.9	44.9

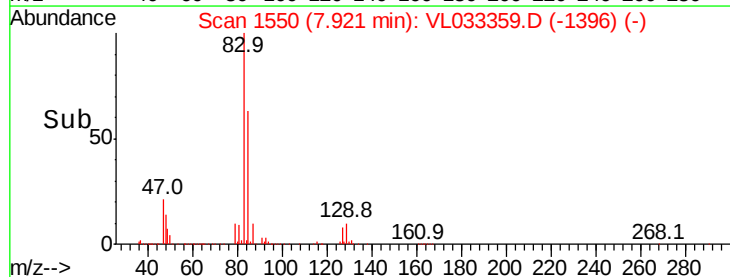
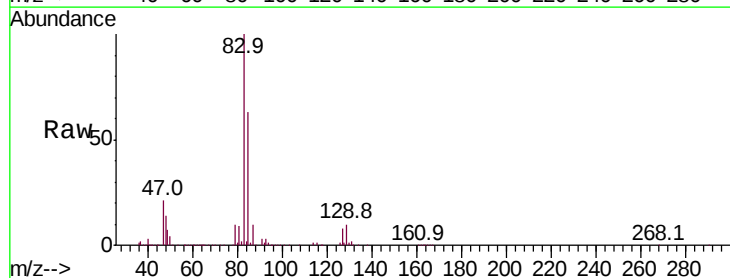
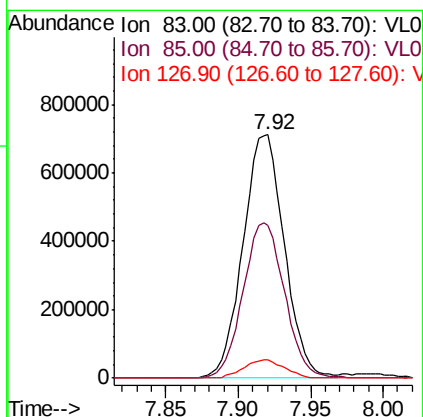
Manual Integrations
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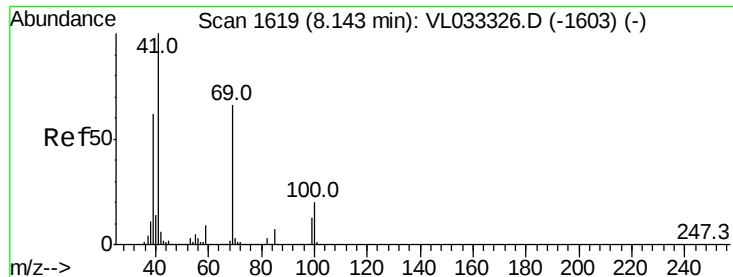
MMDadoda
3/21/2019 12:14:18 PM



#42
Bromodichloromethane
Concen: 10.426 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.8	77.6
127	7.6	6.2	9.2





#43

Methyl Methacrylate

Concen: 10.438 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VL033359.D

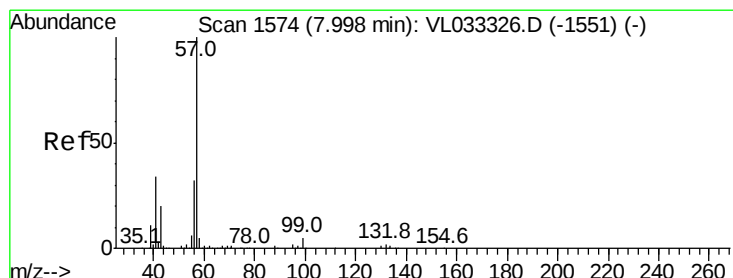
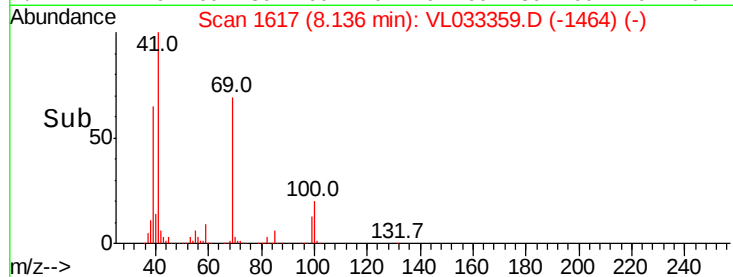
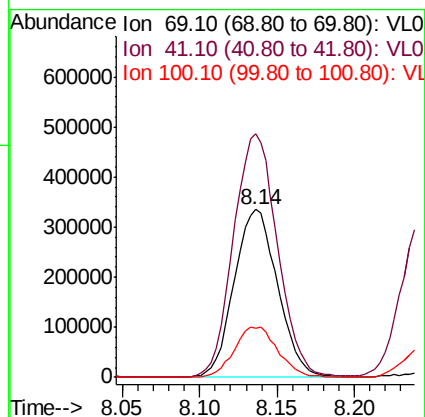
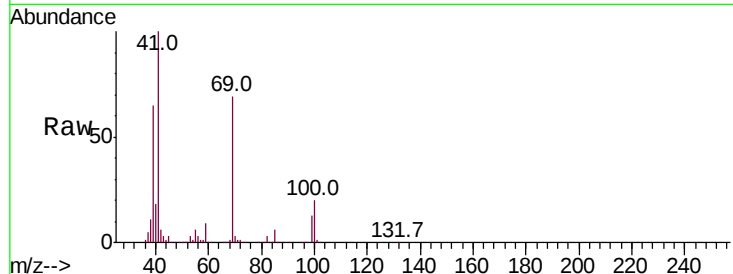
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.5	119.5	179.3	
100	30.0	24.4	36.6	

Manual Integrations
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MMDadoda
3/21/2019 12:14:18 PM



#44

2,2,4-Trimethylpentane

Concen: 10.116 ppbv

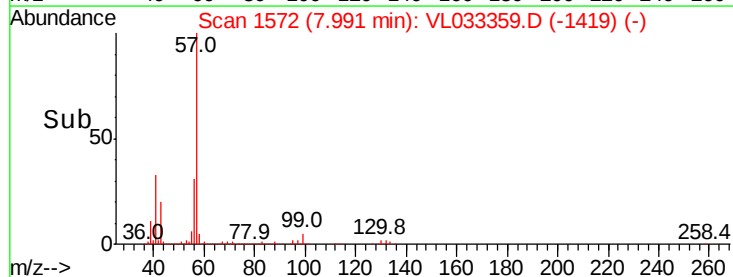
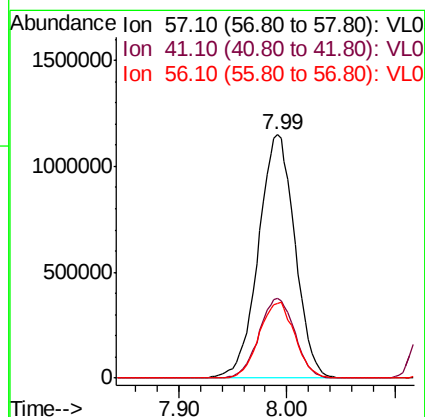
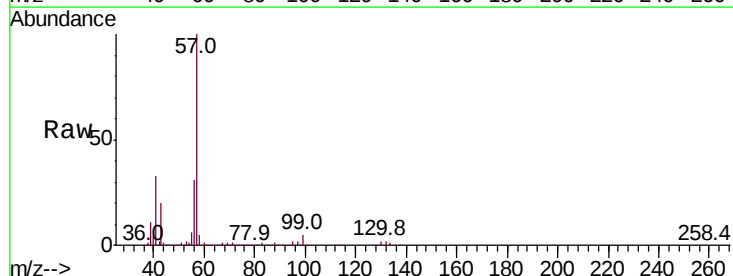
RT: 7.99 min Scan# 1572

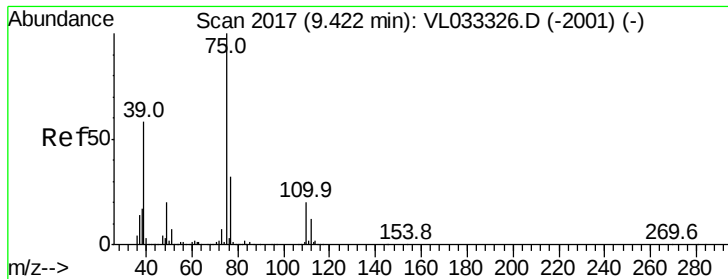
Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.4	26.0	39.0	
56	30.8	24.6	36.8	





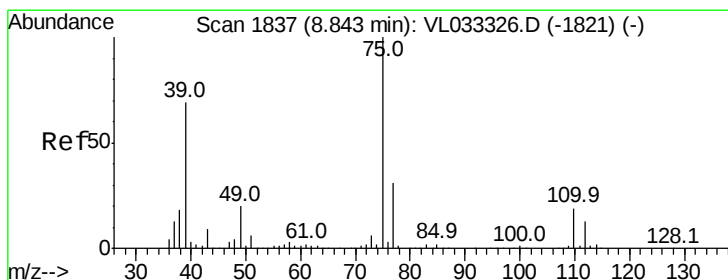
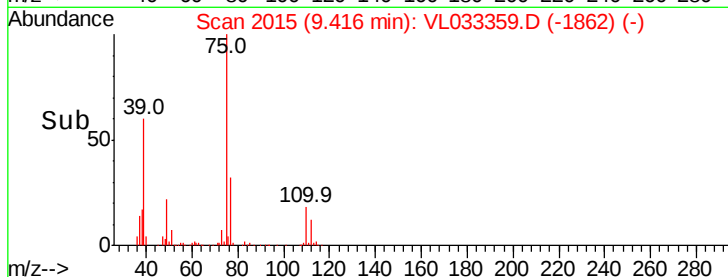
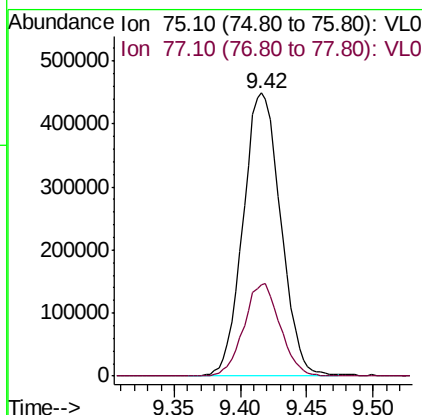
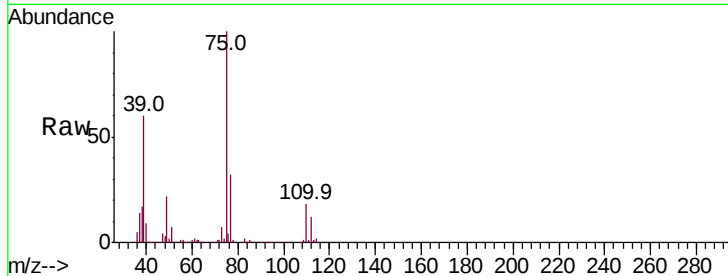
#45
t-1,3-Dichloropropene
Concen: 11.501 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.5	38.3

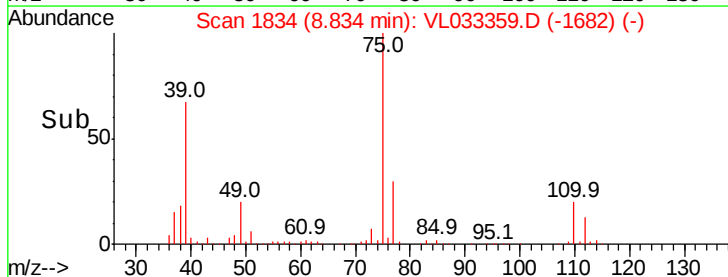
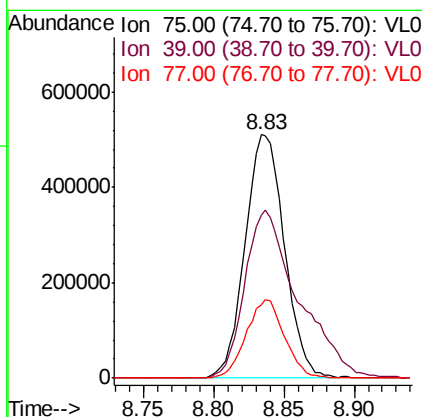
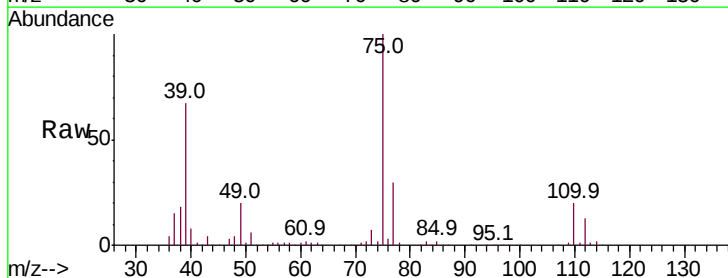
Manual Integrations
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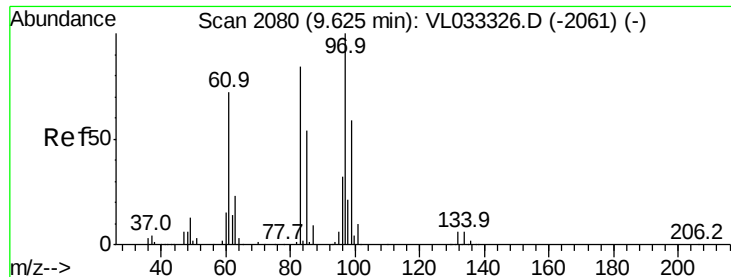
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.989 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
75	100		
39	67.1	55.0	82.6
77	29.9	24.5	36.7





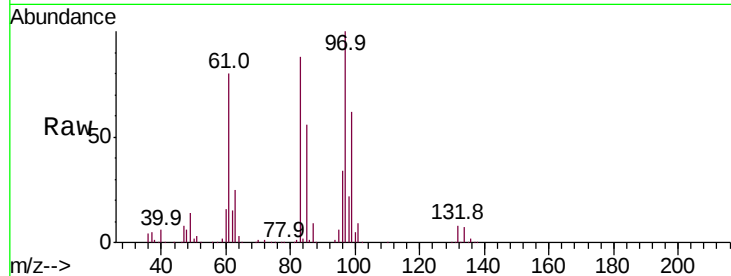
#47
 1,1,2-Trichloroethane
 Concen: 10.089 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	67.4	101.0
85	55.7	43.0	64.4
99	62.2	47.0	70.6

Manual Integrations
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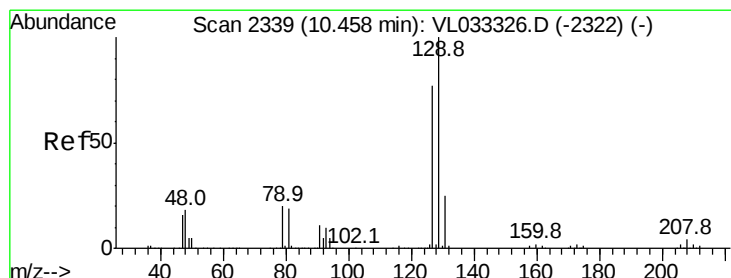
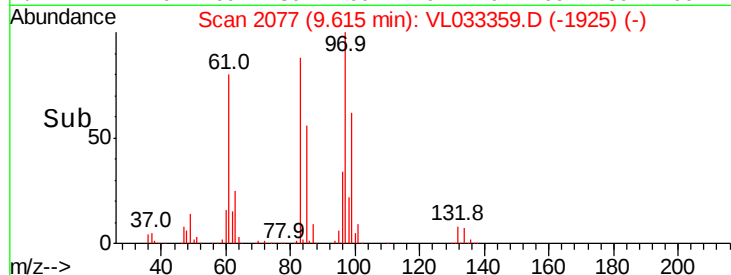
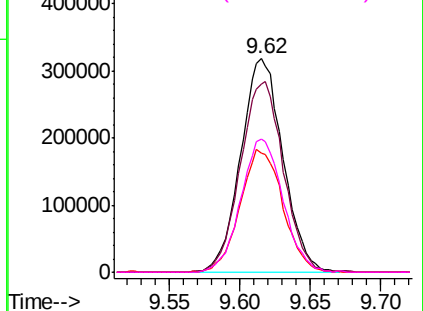
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

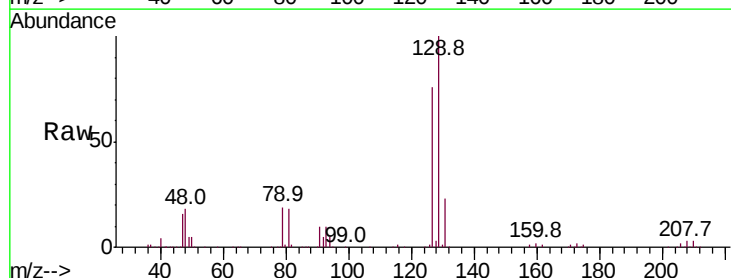
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 10.835 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

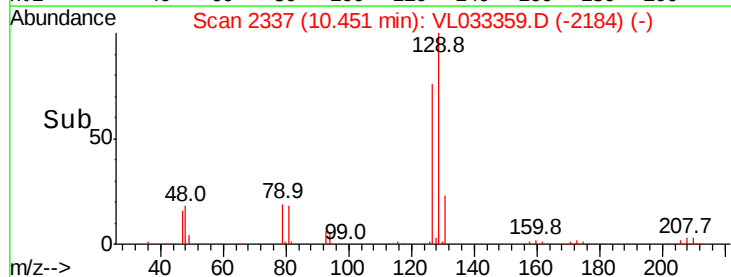
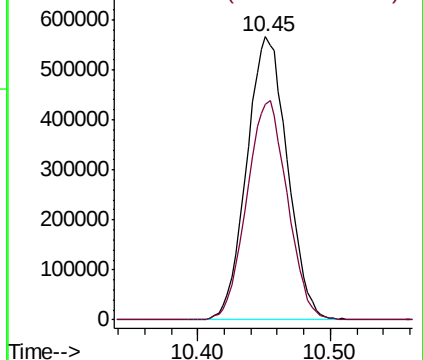
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.9	116.6

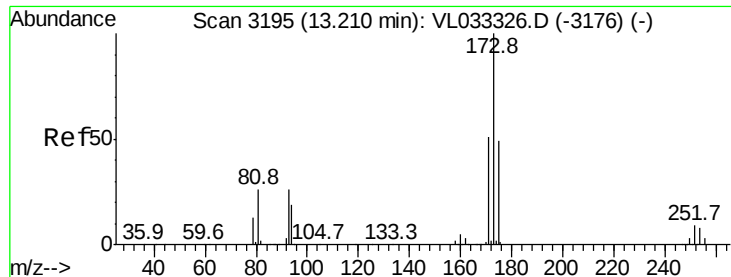


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.549 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1217936

Ion Ratio Lower Upper

173 100

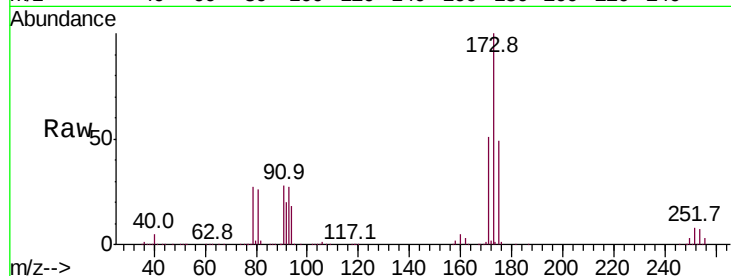
175 48.6 39.0 58.6

171 51.7 41.7 62.5

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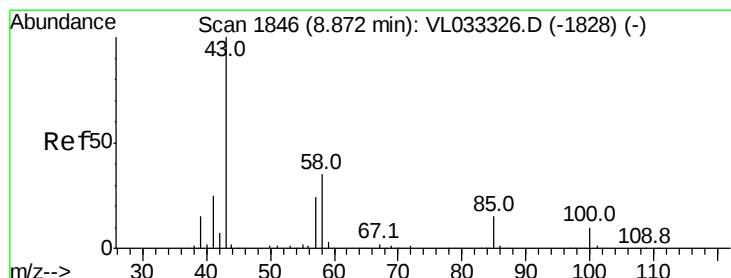
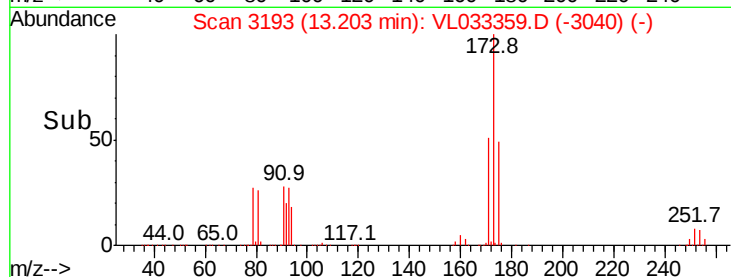
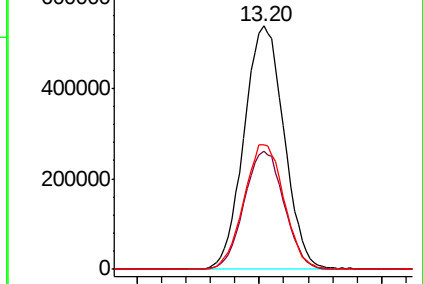
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.976 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033359.D

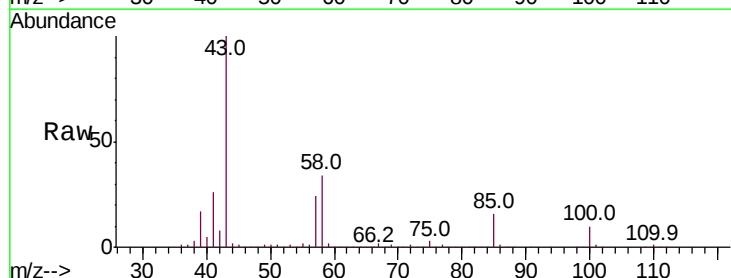
Acq: 18 Mar 2019 14:51

Tgt Ion: 43 Resp: 1656580

Ion Ratio Lower Upper

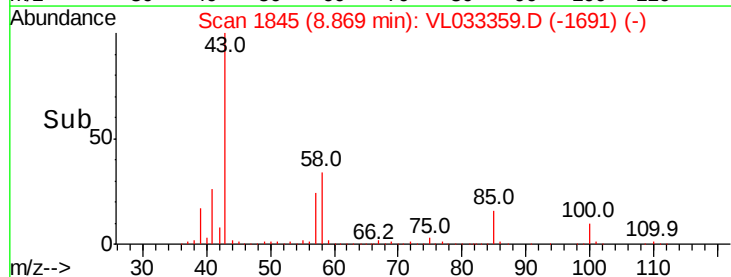
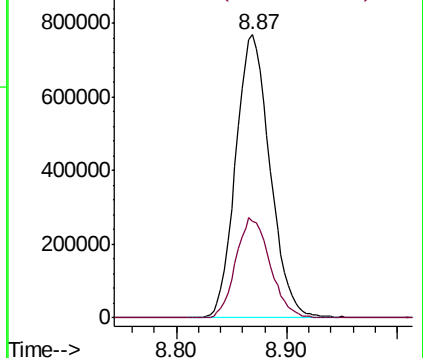
43 100

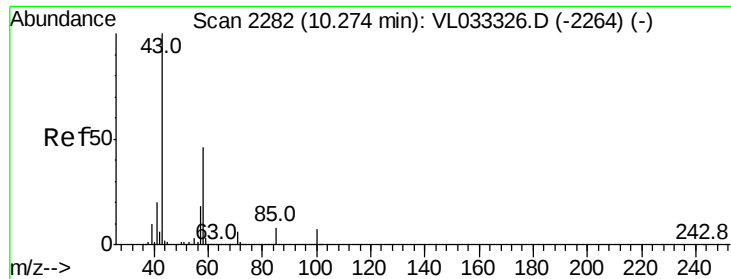
58 35.5 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.280 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1317030

Ion Ratio Lower Upper

43 100

58 46.8 38.0 57.0

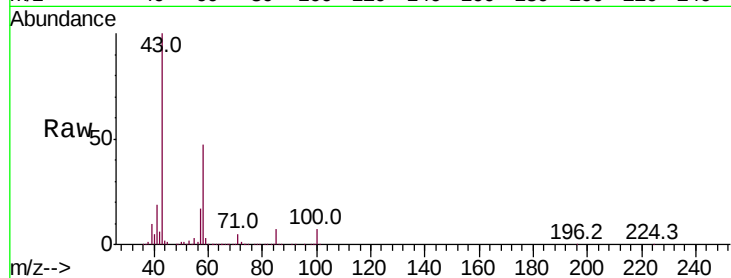
98 0.3 0.1 0.1#

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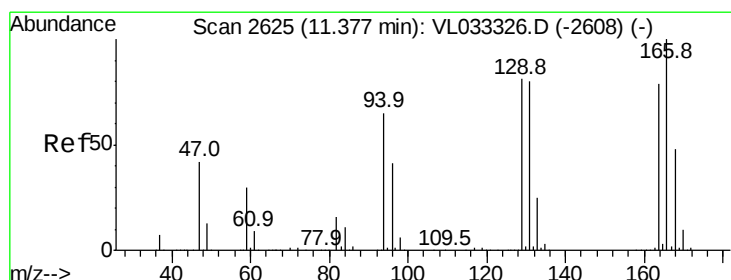
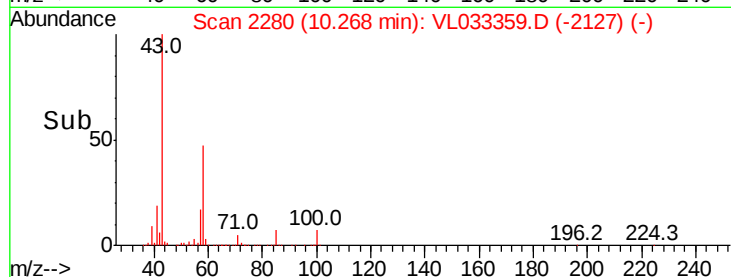
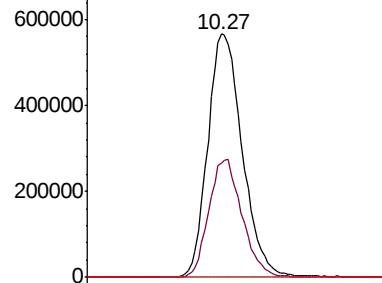
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.909 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion: 164 Resp: 661344

Ion Ratio Lower Upper

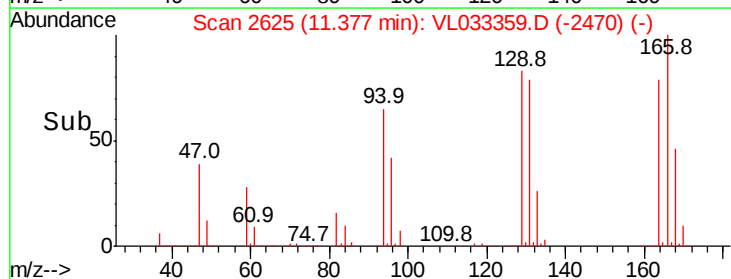
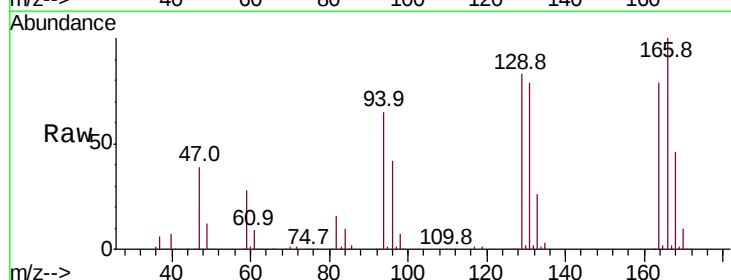
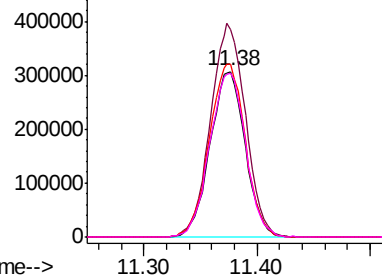
164 100

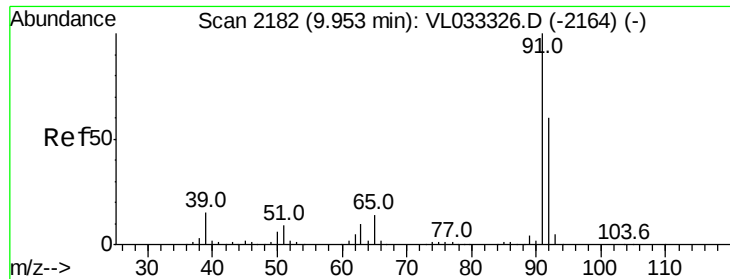
166 125.9 101.5 152.3

129 104.8 82.2 123.2

131 99.0 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: 10.371 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 1887813

Ion Ratio Lower Upper

91 100

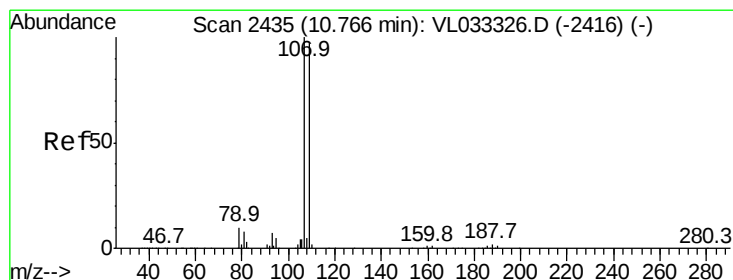
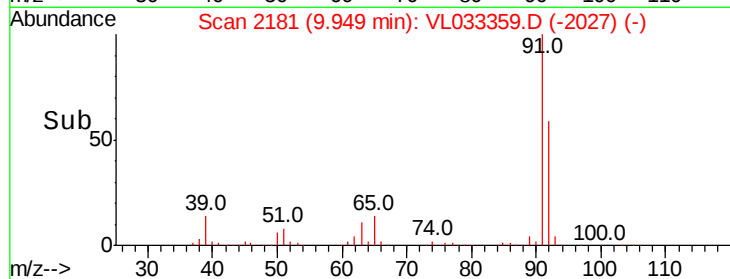
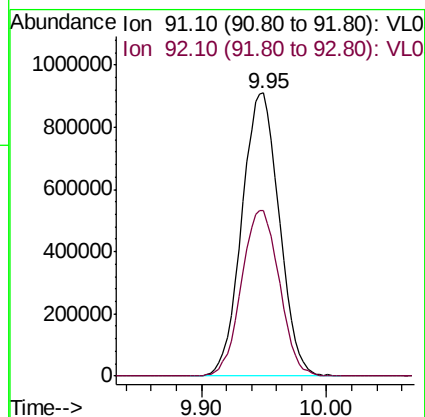
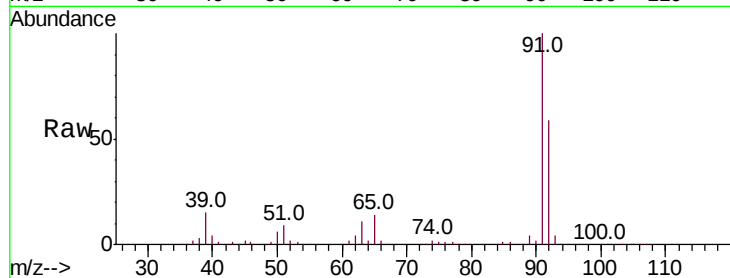
92 59.3 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 9.471 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033359.D

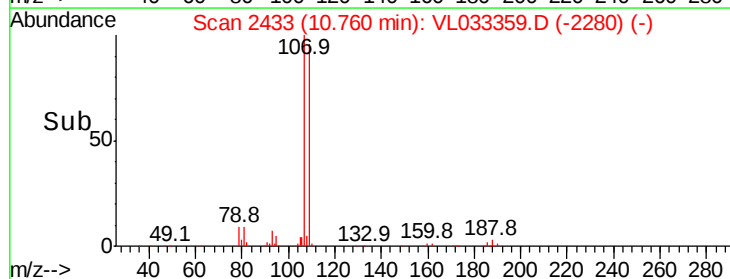
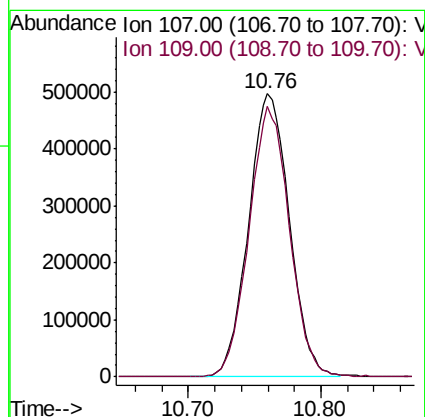
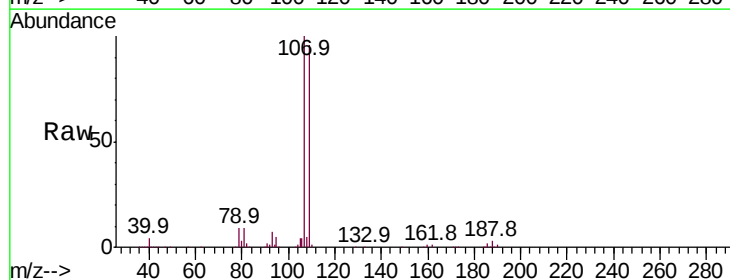
Acq: 18 Mar 2019 14:51

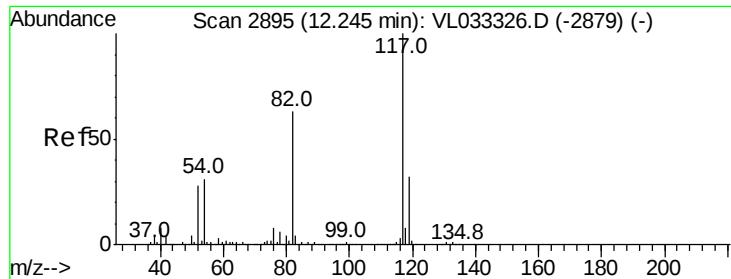
Tgt Ion: 107 Resp: 1061292

Ion Ratio Lower Upper

107 100

109 95.7 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2176581

Ion Ratio Lower Upper

117 100

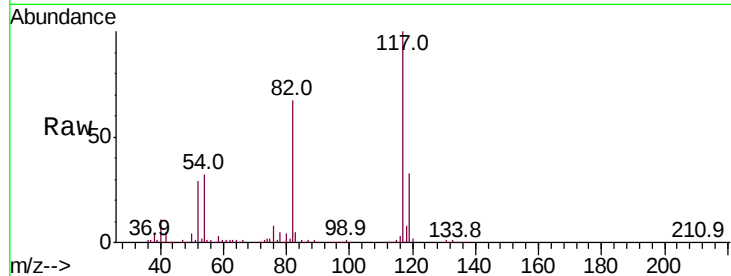
82 62.5 53.4 80.2

119 31.2 27.3 40.9

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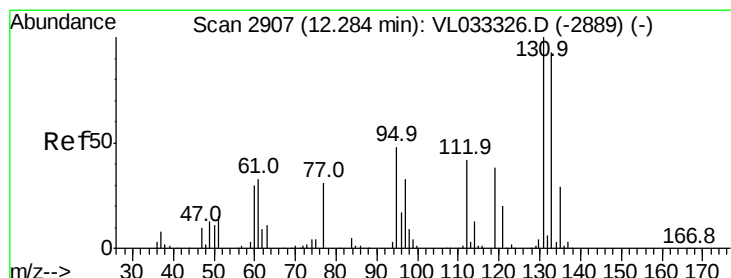
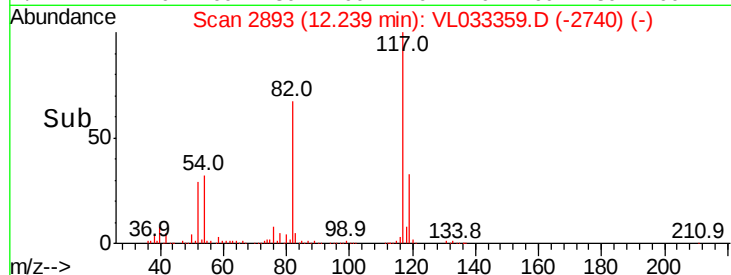
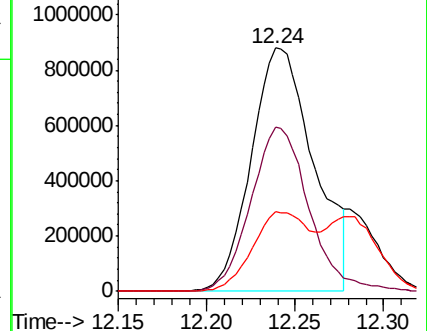
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.928 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

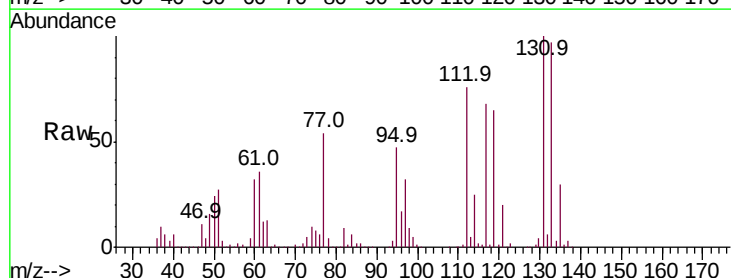
Tgt Ion:131 Resp: 966653

Ion Ratio Lower Upper

131 100

133 93.8 76.7 115.1

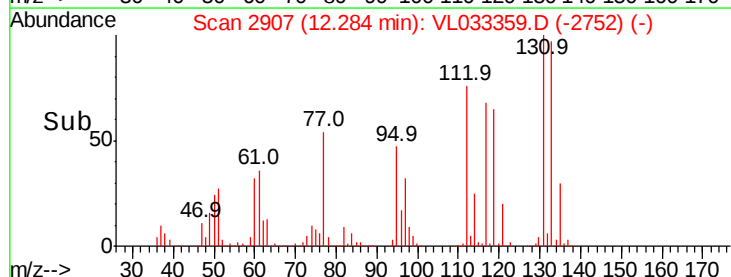
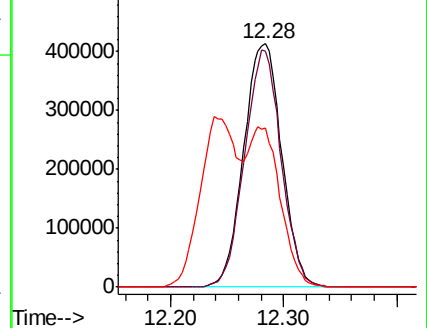
119 59.5 40.3 60.5

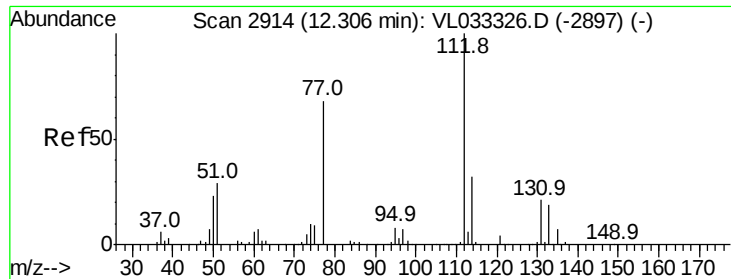


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





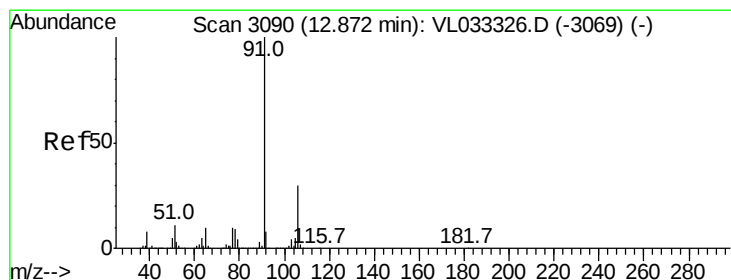
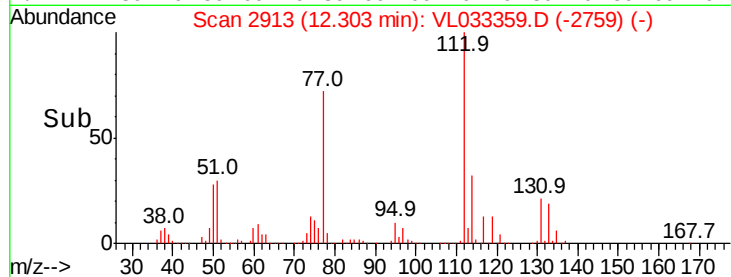
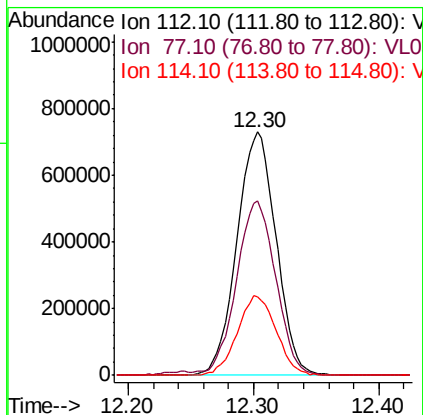
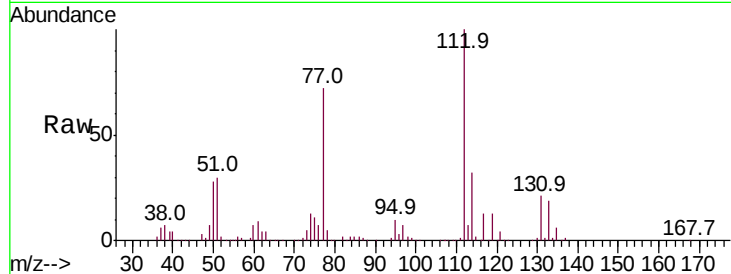
#57
Chlorobenzene
Concen: 9.182 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 112 Resp: 1582816
Ion Ratio Lower Upper
112 100
77 71.3 55.8 83.6
114 32.4 28.6 35.0

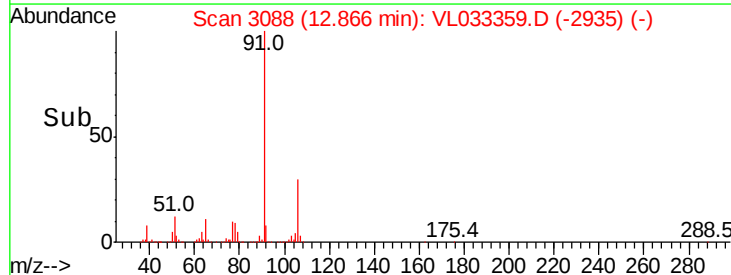
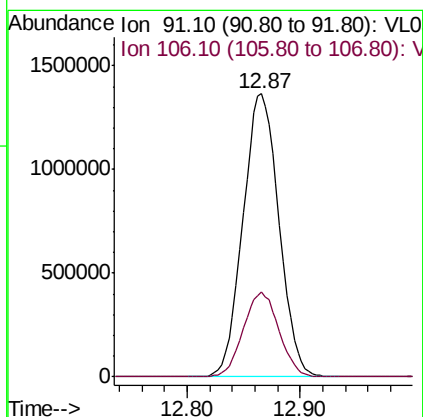
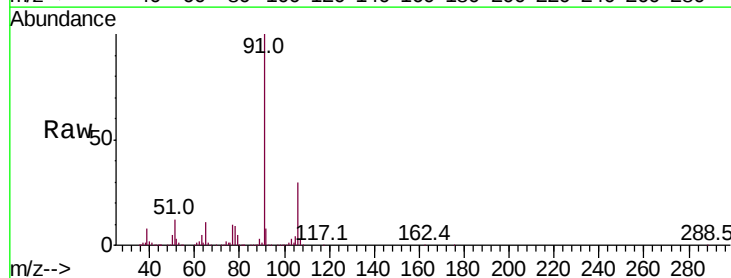
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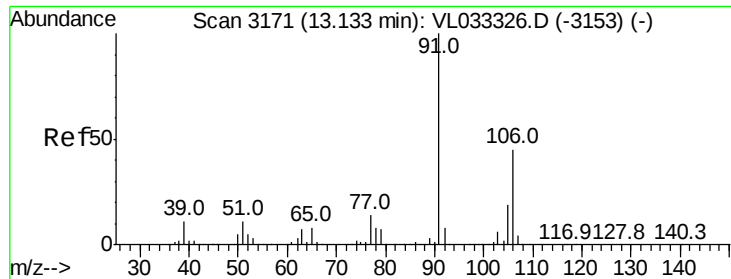
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#58
Ethyl Benzene
Concen: 9.798 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 91 Resp: 3016985
Ion Ratio Lower Upper
91 100
106 29.8 24.2 36.2





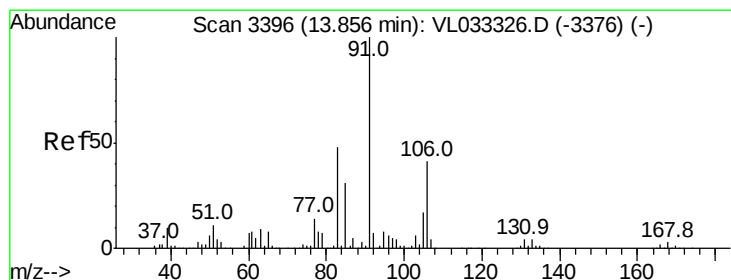
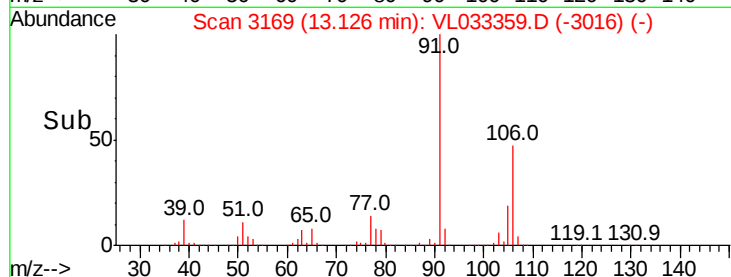
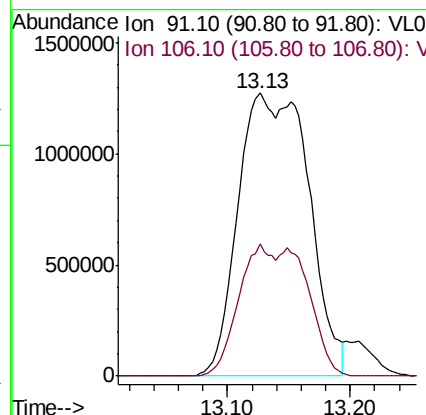
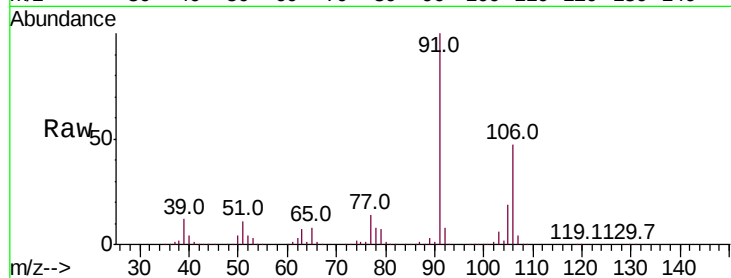
#59
m/p-Xylene
Concen: 19.152 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5067890
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0#

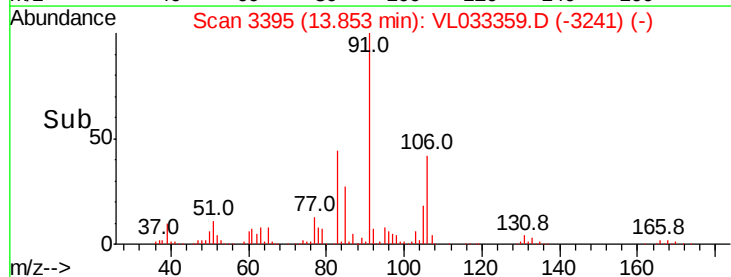
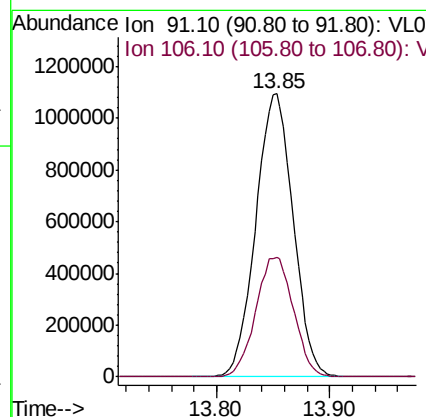
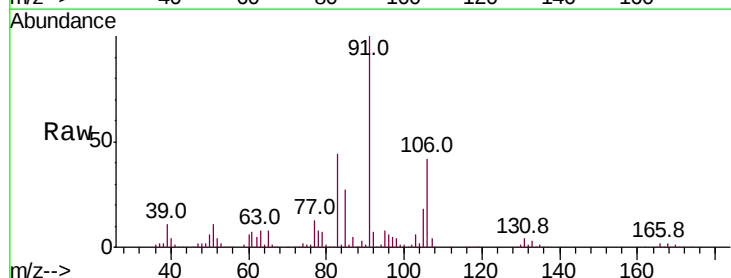
Manual Integrations
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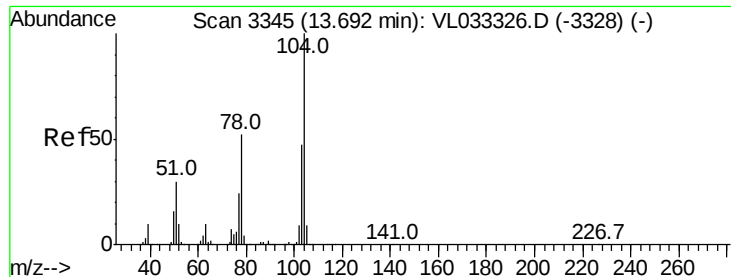
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#60
o-Xylene
Concen: 9.705 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 91 Resp: 2505292
Ion Ratio Lower Upper
91 100
106 42.8 21.3 63.9





#61

Stvrene

Concen: 10.119 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1828929

Ion Ratio Lower Upper

104 100

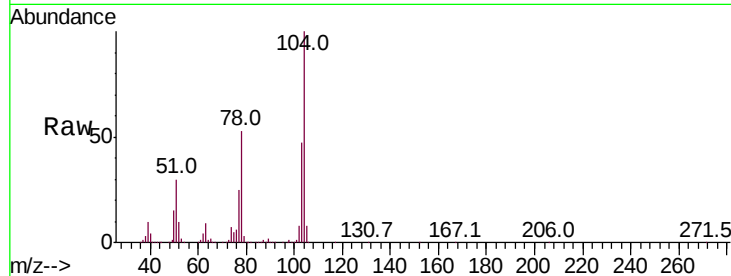
78 53.7 42.7 64.1

103 47.6 38.0 57.0

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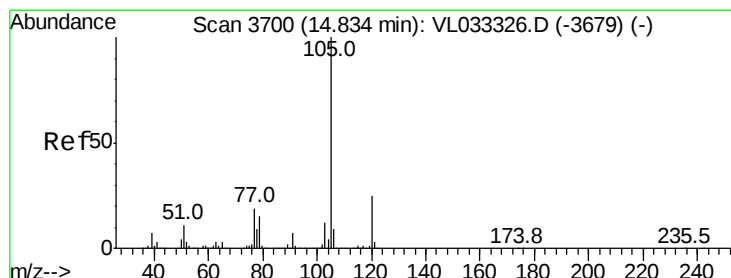
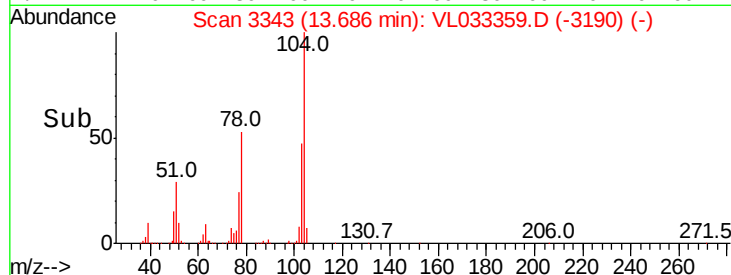
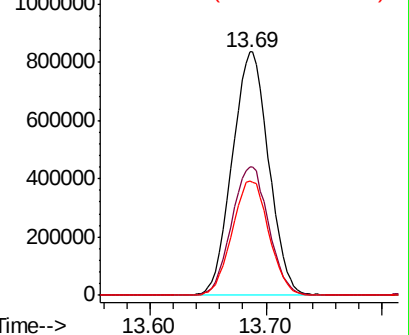
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.705 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VL033359.D

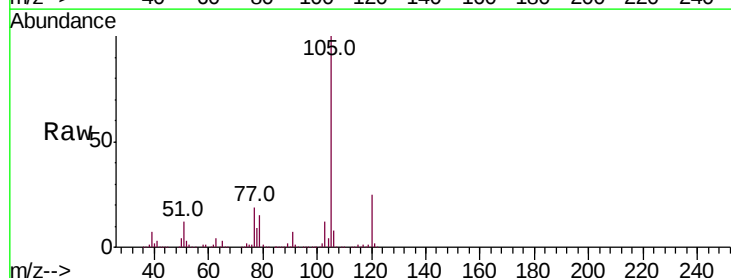
Acq: 18 Mar 2019 14:51

Tgt Ion:105 Resp: 3483160

Ion Ratio Lower Upper

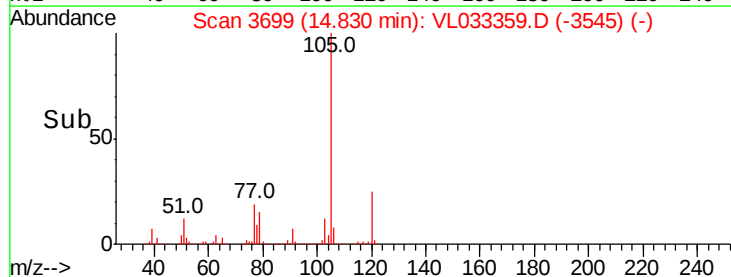
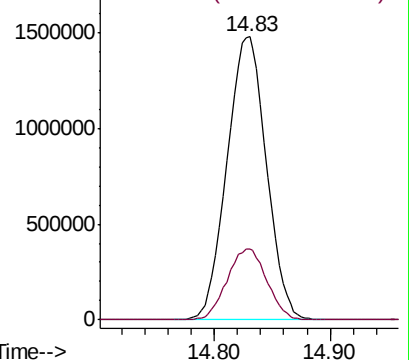
105 100

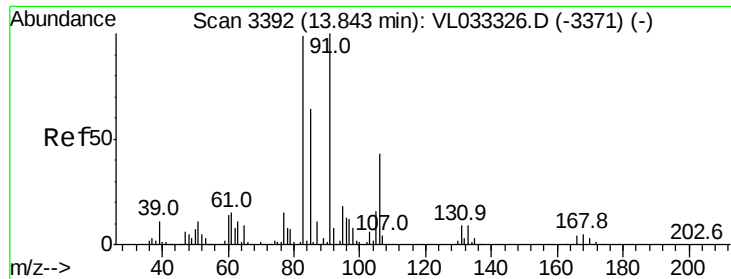
120 25.3 19.9 29.9



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: 9.235 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1723428

Ion Ratio Lower Upper

83 100

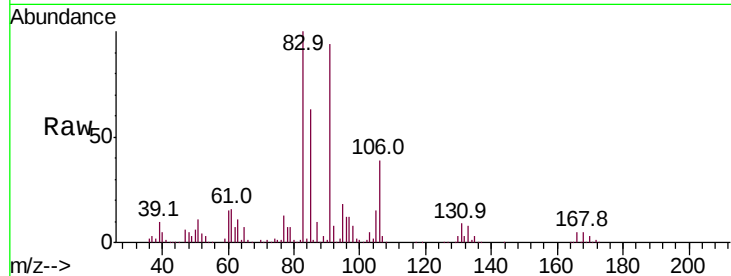
131 9.4 4.7 14.0

85 64.4 32.5 97.4

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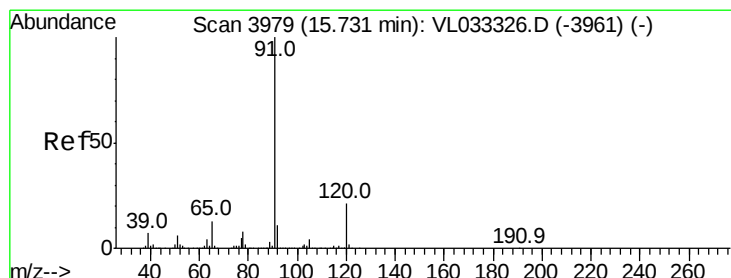
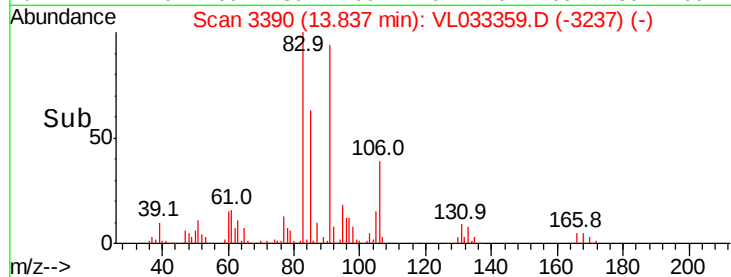
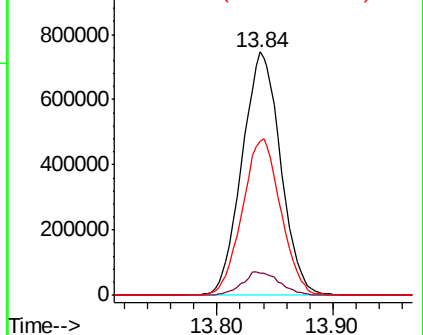
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.788 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033359.D

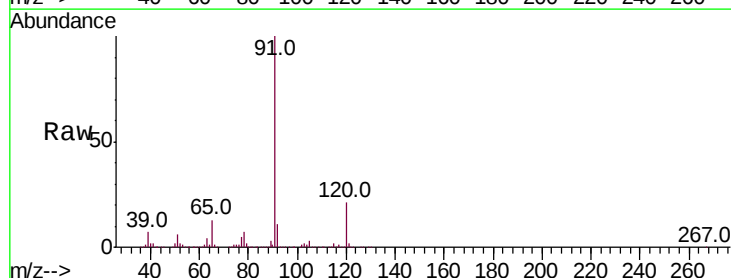
Acq: 18 Mar 2019 14:51

Tgt Ion:120 Resp: 888860

Ion Ratio Lower Upper

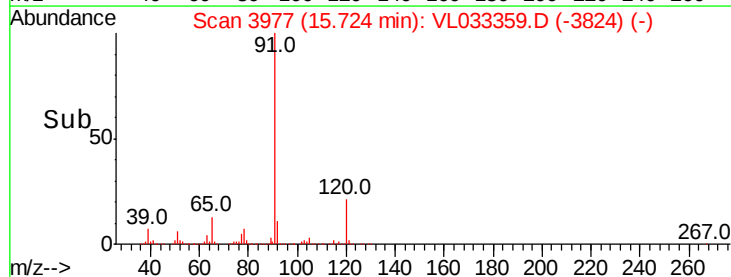
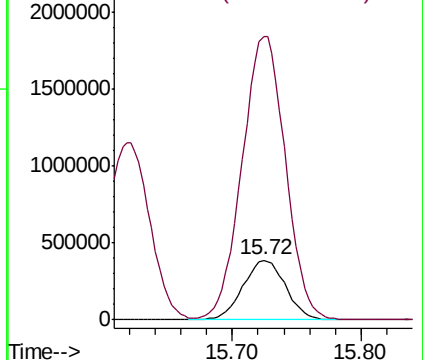
120 100

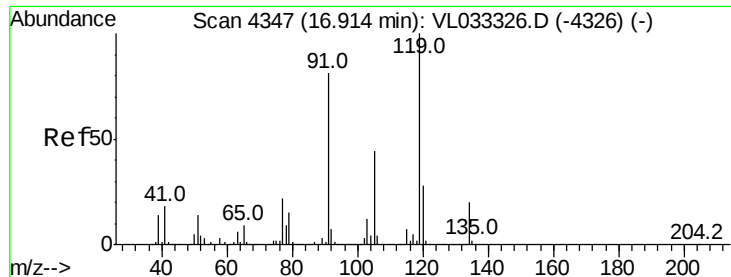
91 487.5 389.8 584.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





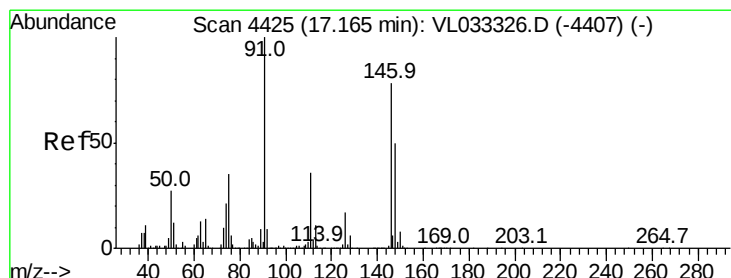
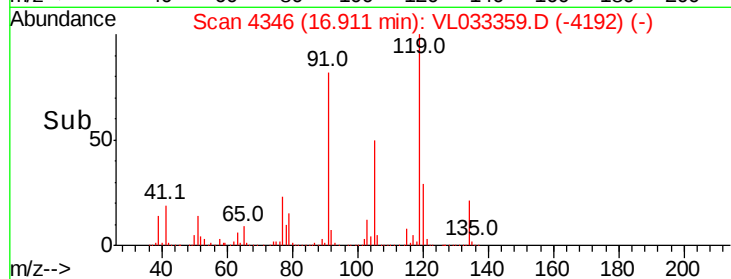
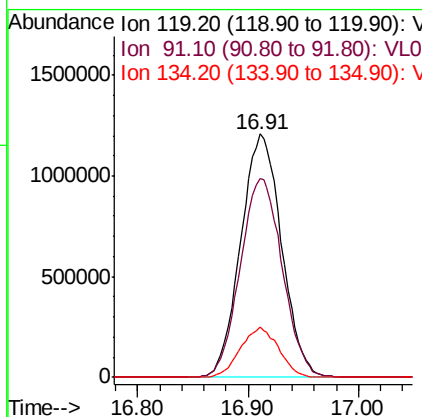
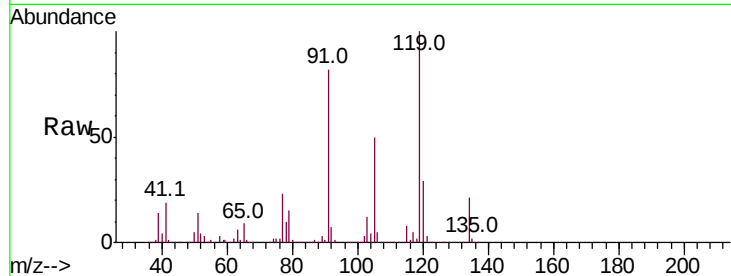
#65
tert-Butylbenzene
Concen: 9.591 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 3099110
Ion Ratio Lower Upper
119 100
91 84.4 67.2 100.8
134 19.4 15.4 23.2

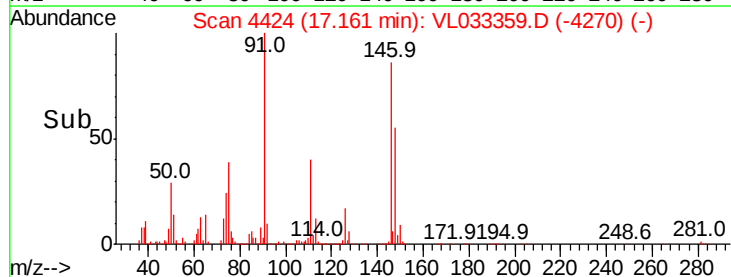
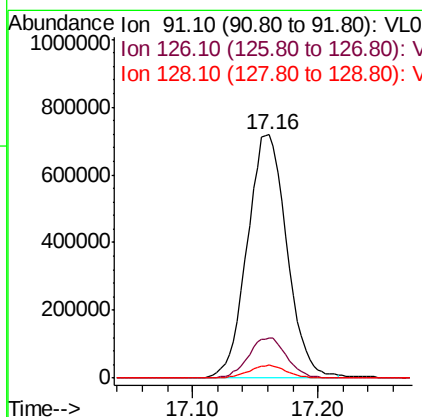
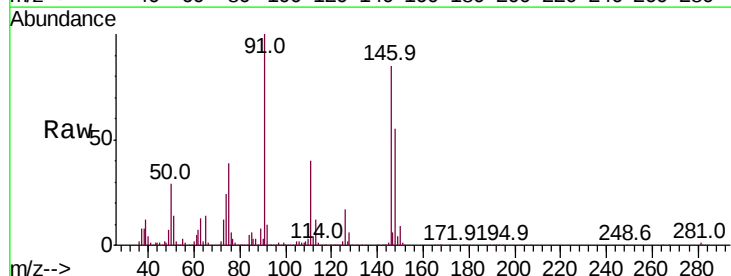
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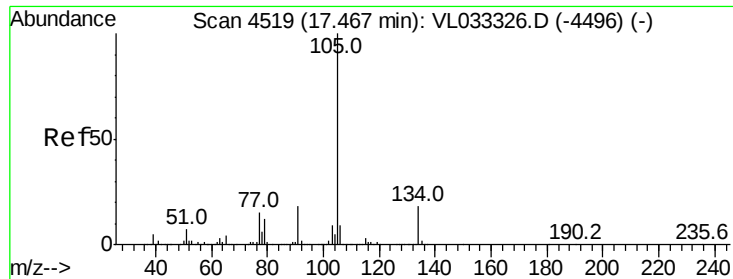
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#66
Benzyl Chloride
Concen: 11.828 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion: 91 Resp: 1579306
Ion Ratio Lower Upper
91 100
126 16.1 13.2 19.8
128 5.0 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.669 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4426943

Ion Ratio Lower Upper

105 100

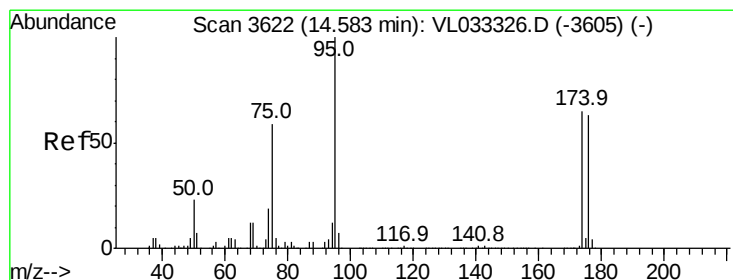
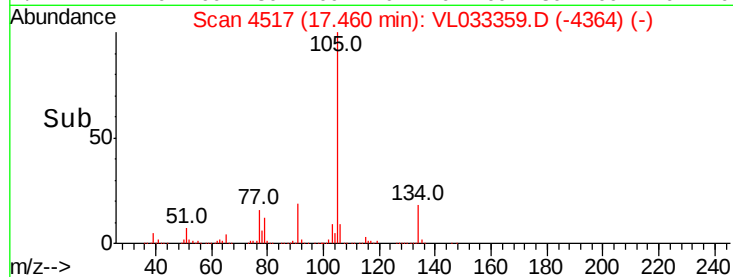
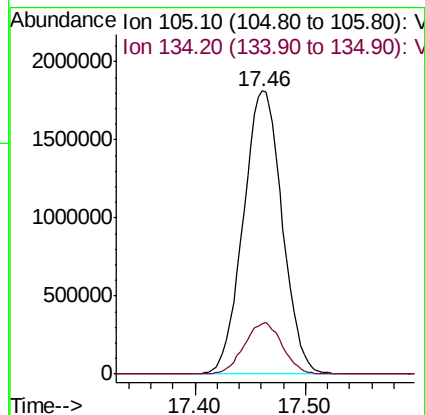
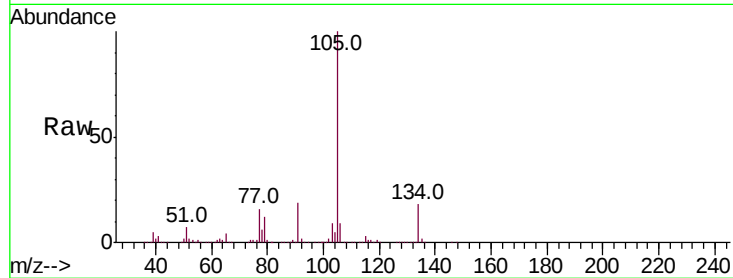
134 17.9 14.2 21.4

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.616 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

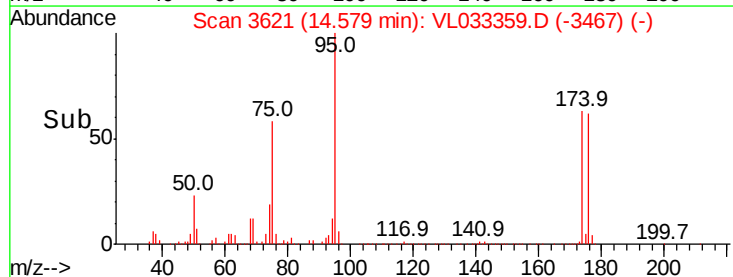
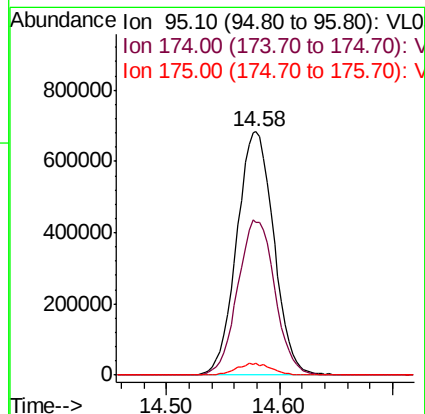
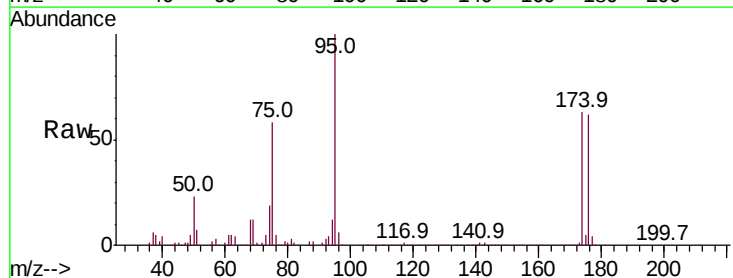
Tgt Ion: 95 Resp: 1550838

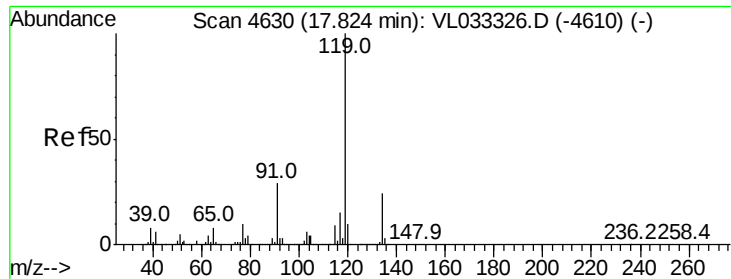
Ion Ratio Lower Upper

95 100

174 64.4 51.5 77.3

175 4.6 3.8 5.6





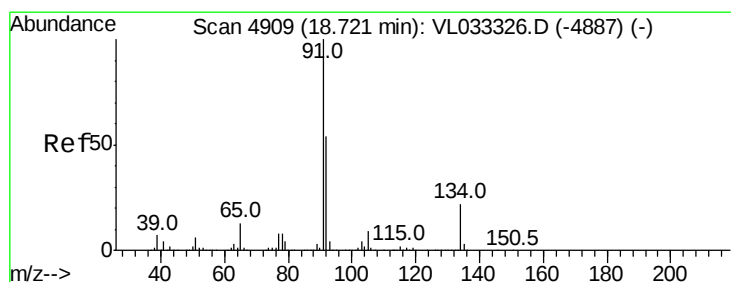
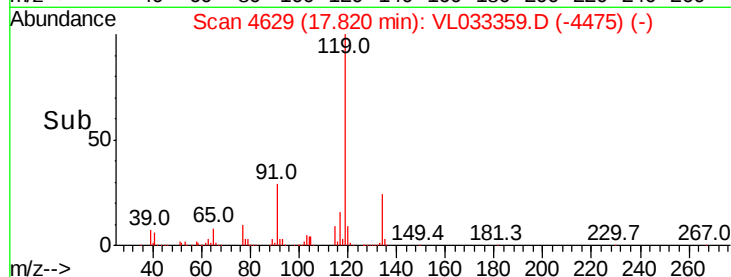
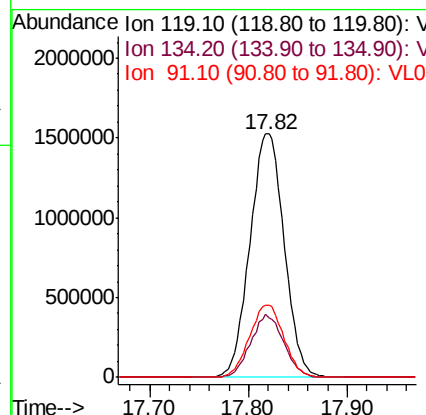
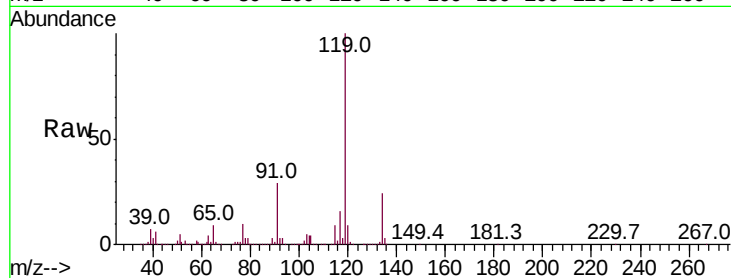
#69
p-Isopropyltoluene
Concen: 9.766 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	19.8	29.6
91	29.9	23.4	35.2

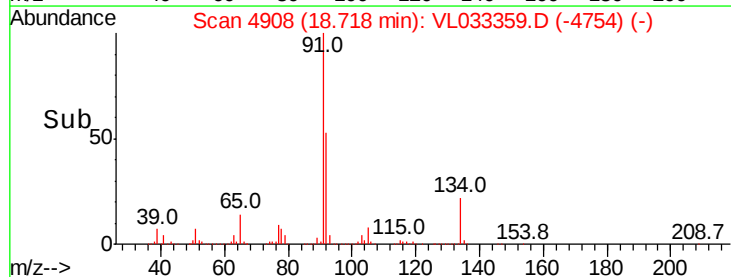
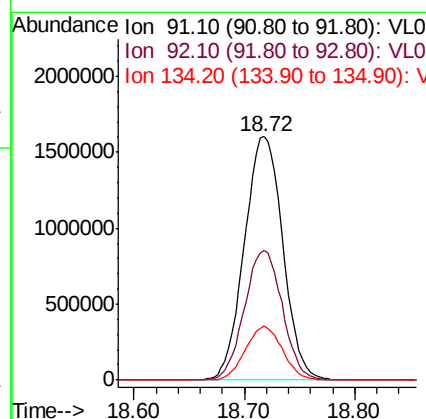
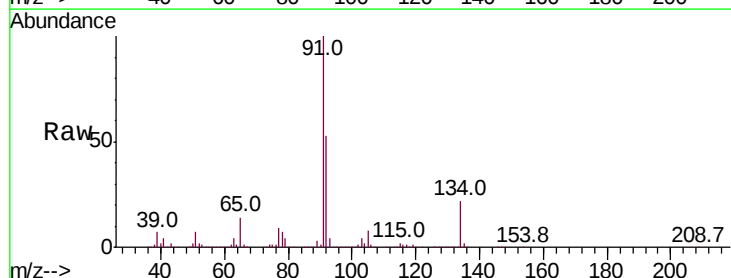
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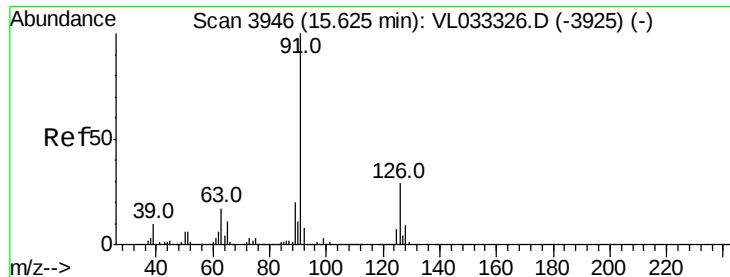
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#70
n-Butylbenzene
Concen: 9.694 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.8	64.2
134	21.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.662 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2699187

Ion Ratio Lower Upper

91 100

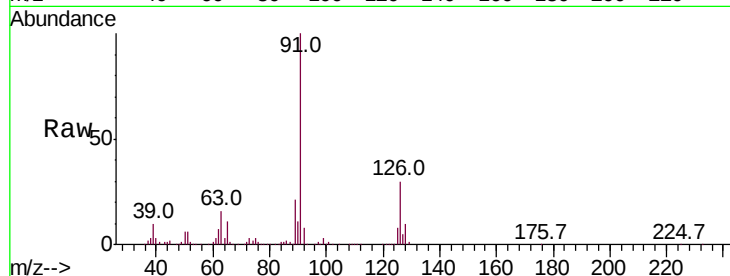
126 29.2 11.6 46.6

Manual Integrations

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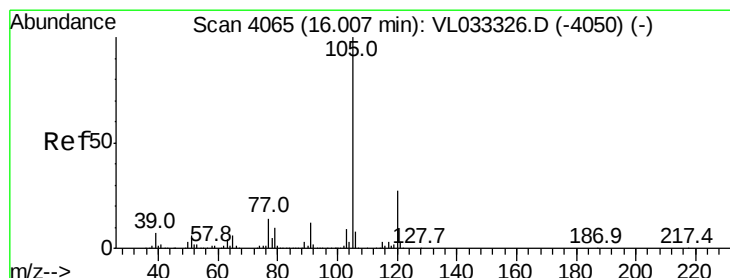
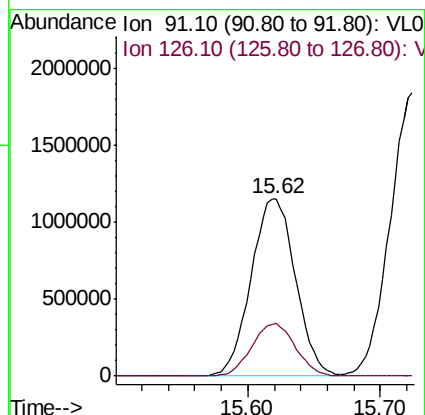
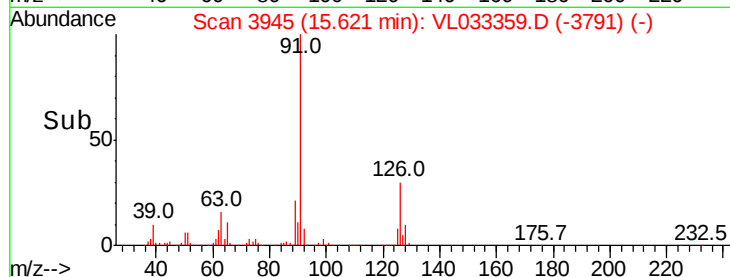
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.930 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion:105 Resp: 2911122

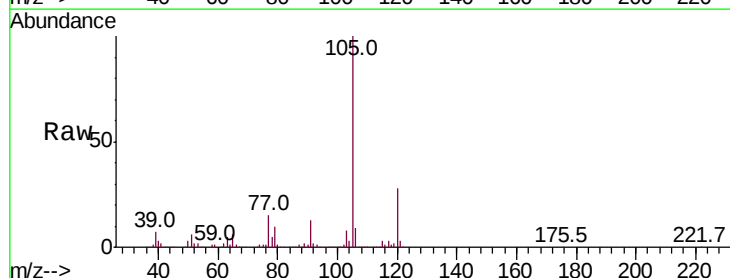
Ion Ratio Lower Upper

105 100

120 28.3 22.9 34.3

91 13.2 10.2 15.2

77 14.0 11.1 16.7

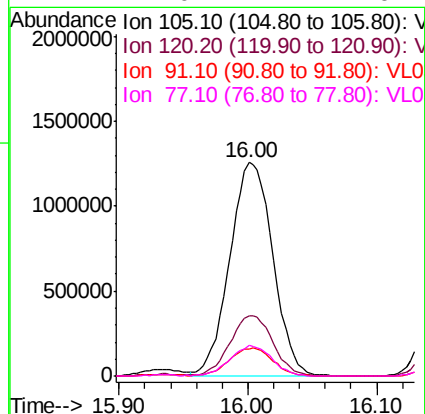
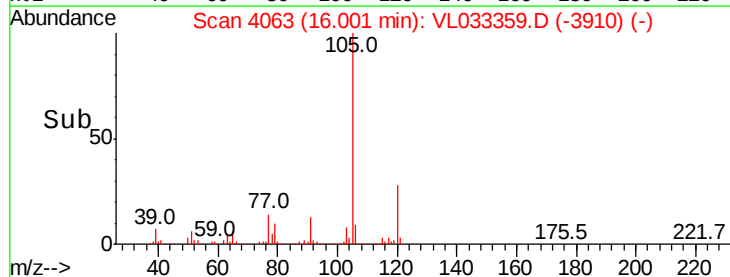


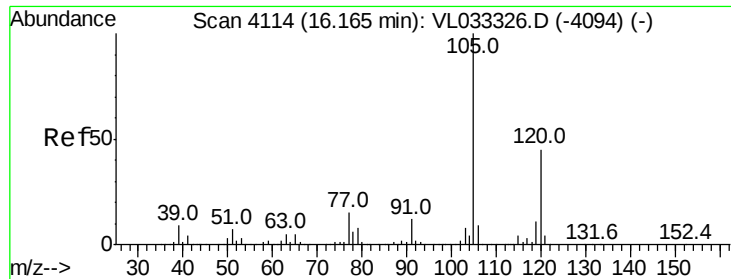
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.724 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2776958

Ion Ratio Lower Upper

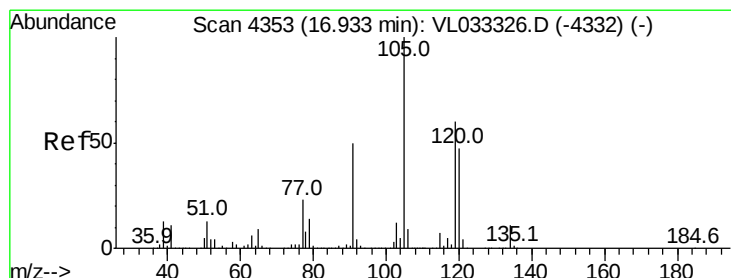
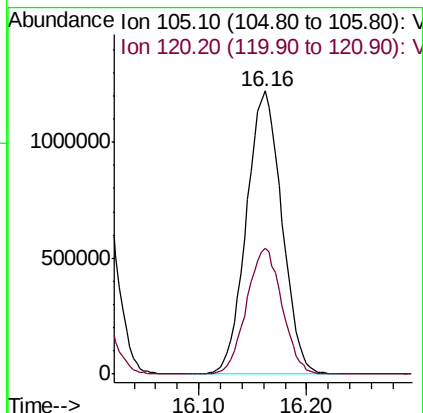
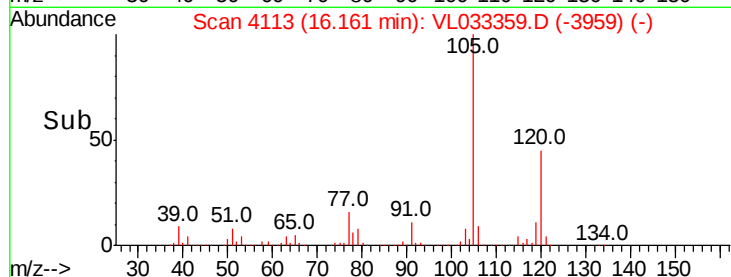
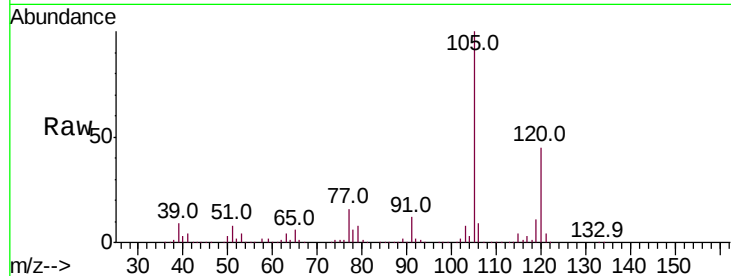
105 100

120 44.6 36.2 54.4

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#74

1,2,4-Trimethylbenzene

Concen: 9.403 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Tgt Ion:105 Resp: 2844044

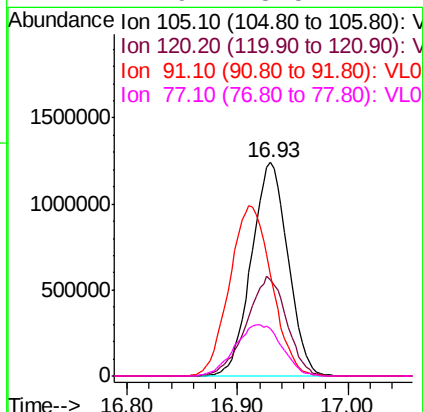
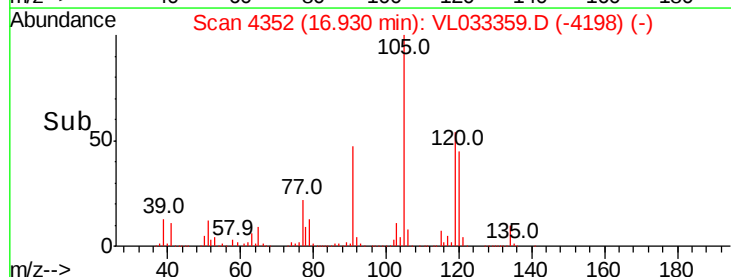
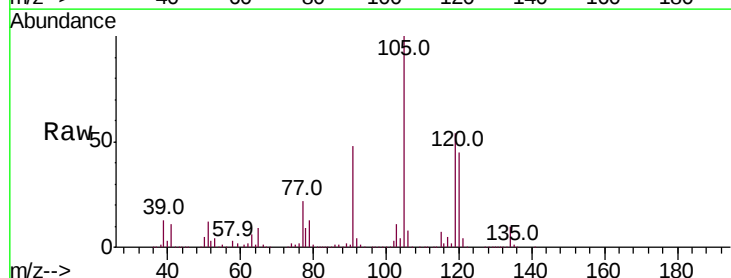
Ion Ratio Lower Upper

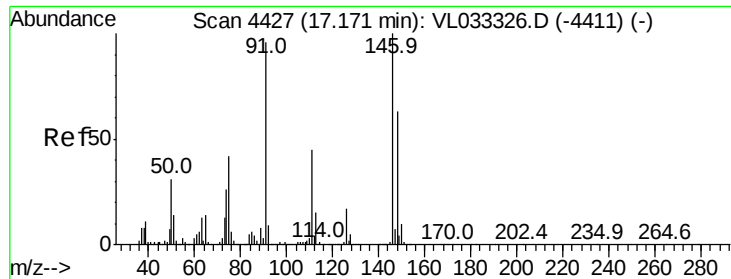
105 100

120 45.0 37.4 56.2

91 47.3 41.0 61.4

77 21.9 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 9.134 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1628306

Ion Ratio Lower Upper

146 100

111 45.9 22.8 68.3

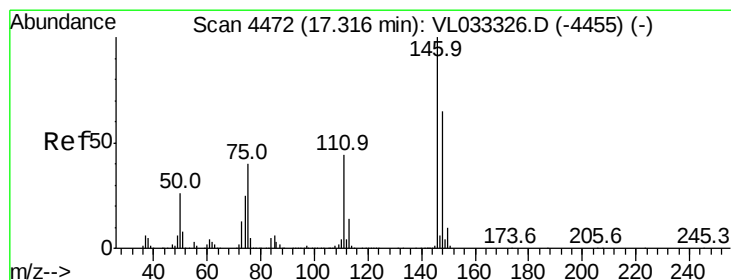
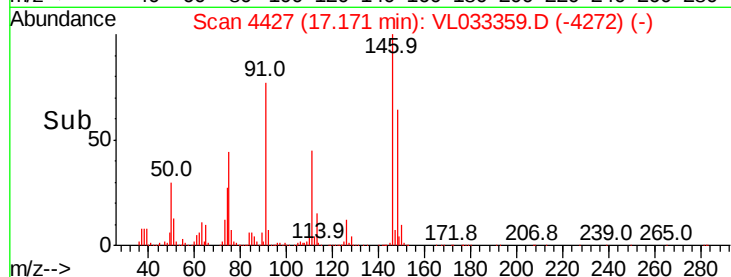
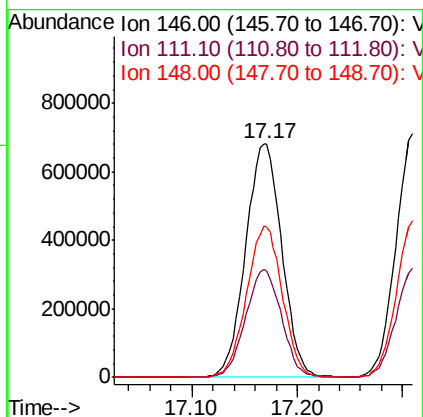
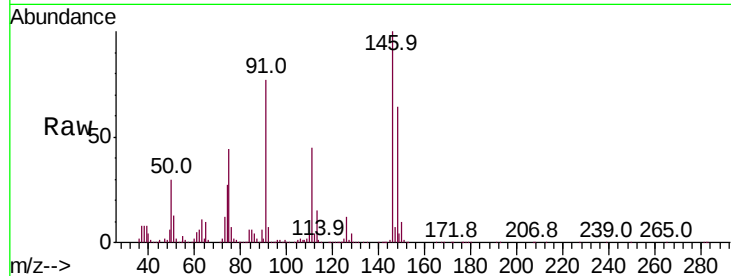
148 64.0 31.9 95.7

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#76

1,4-Dichlorobenzene

Concen: 9.437 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

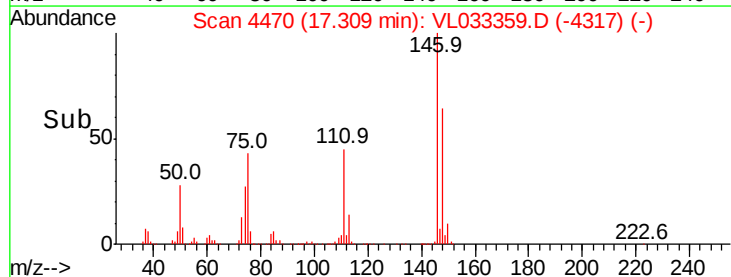
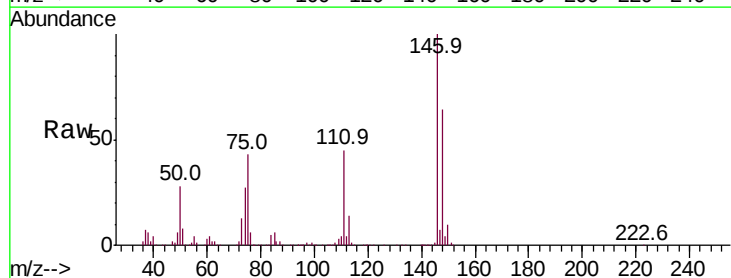
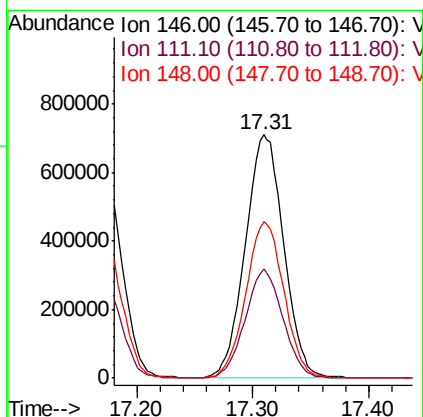
Tgt Ion:146 Resp: 1628845

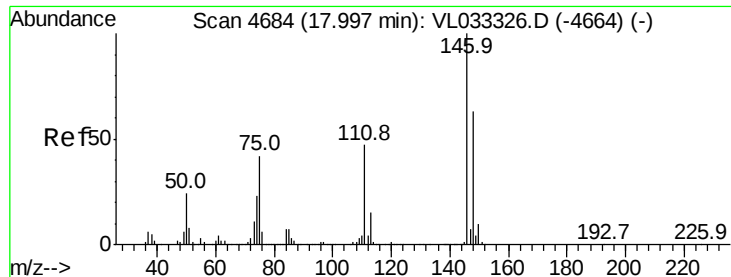
Ion Ratio Lower Upper

146 100

111 44.2 21.9 65.7

148 64.5 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 9.388 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1585056

Ion Ratio Lower Upper

146 100

111 47.2 23.5 70.6

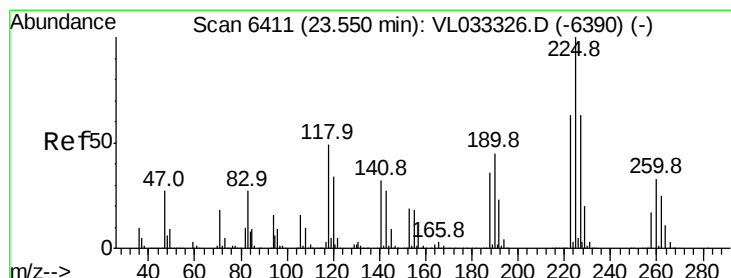
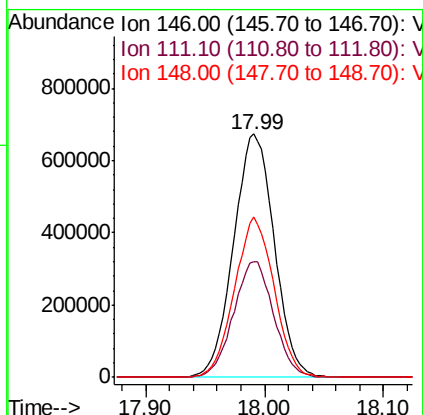
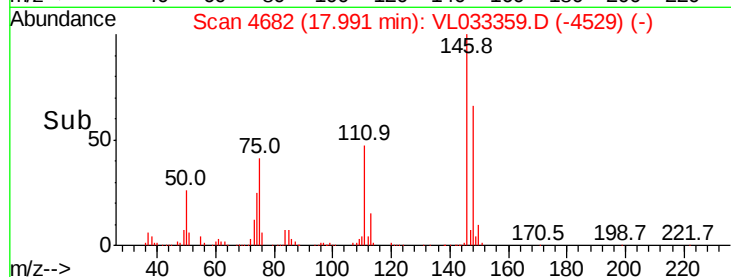
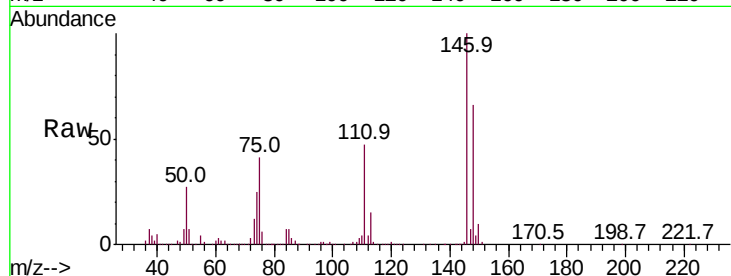
148 64.3 31.9 95.9

Manual Integrations

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#78

Hexachloro-1,3-Butadiene

Concen: 7.819 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.01 min

Lab File: VL033359.D

Acq: 18 Mar 2019 14:51

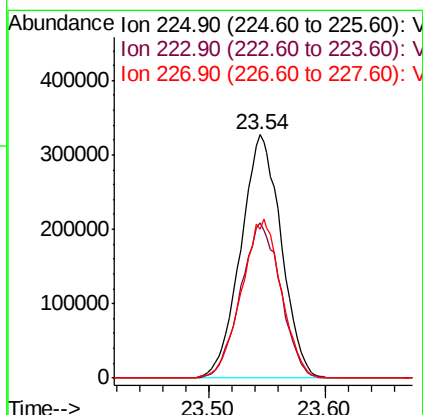
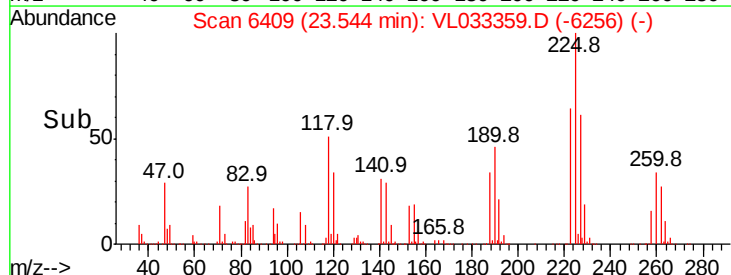
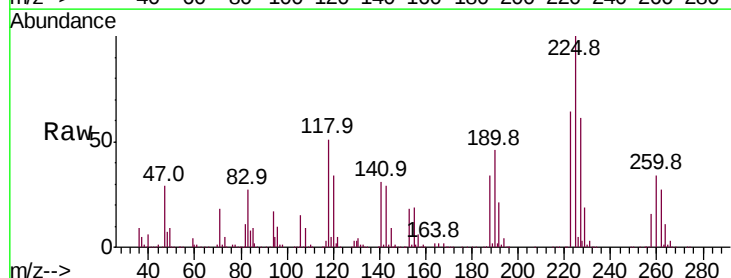
Tgt Ion:225 Resp: 791509

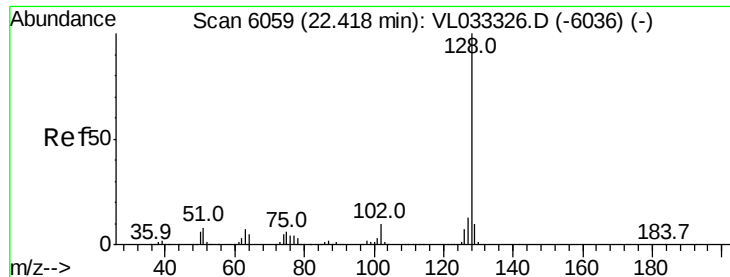
Ion Ratio Lower Upper

225 100

223 63.4 50.4 75.6

227 64.6 50.5 75.7





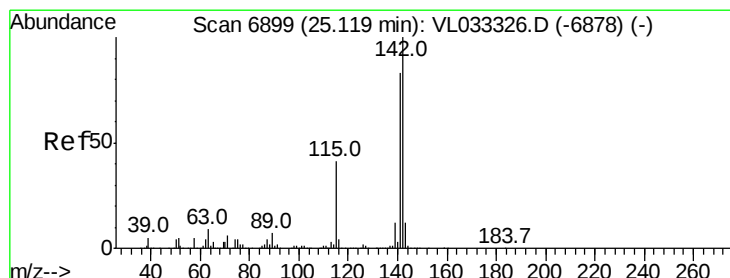
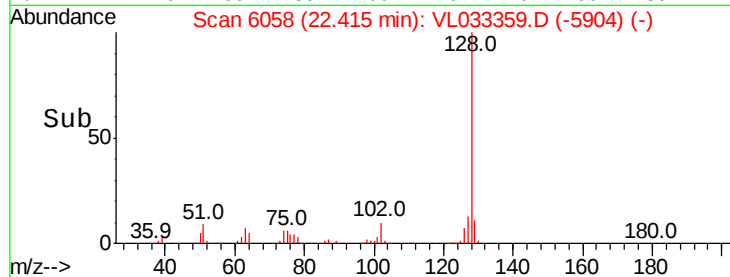
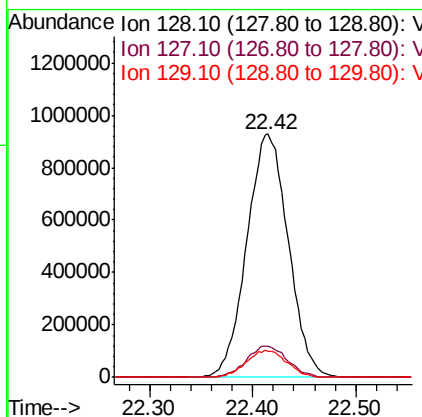
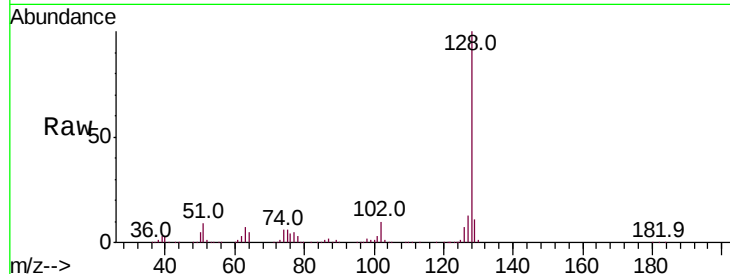
#79
Naphthalene
Concen: 8.889 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.00 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:128 Resp: 2591026
Ion Ratio Lower Upper
128 100
127 13.0 10.1 15.1
129 10.9 8.2 12.2

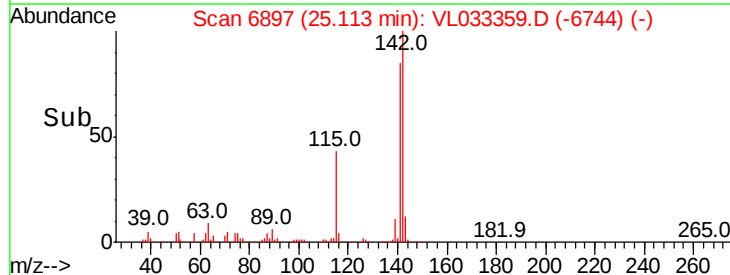
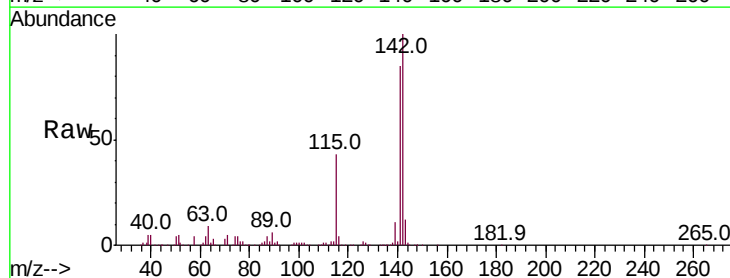
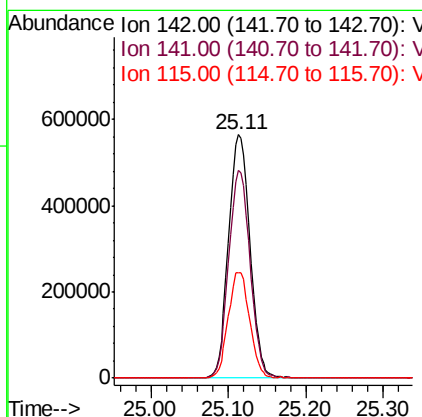
Manual Integrations
APPROVED

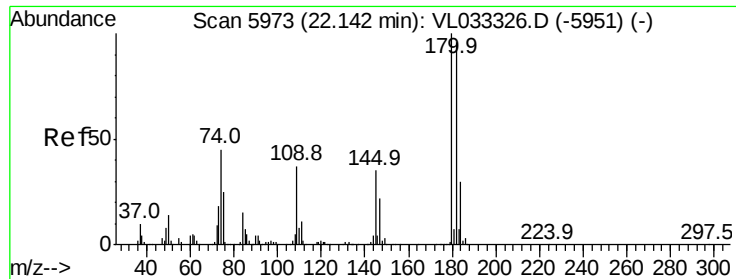
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#80
Naphthalene, 2-methyl-
Concen: 7.800 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.01 min
Lab File: VL033359.D
Acq: 18 Mar 2019 14:51

Tgt Ion:142 Resp: 1078045
Ion Ratio Lower Upper
142 100
141 85.1 67.1 100.7
115 43.6 33.8 50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 9.034 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033359.D
 Acq: 18 Mar 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.1	114.1
184	30.3	24.6	37.0

Manual Integrations
 APPROVED

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