

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033707.D
 Acq On : 17 May 2019 7:10
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:30 PM

Quant Time: May 17 08:33:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1208827	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2903982	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3068776m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2385561	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2322934	9.118 ppbv	99
3) Chlorodifluoromethane	3.01	51	1349709	9.748 ppbv	98
4) Chloromethane	3.17	50	758347	9.575 ppbv	99
5) Vinyl Chloride	3.29	62	749219	9.287 ppbv	99
6) Bromomethane	3.51	94	489498	9.944 ppbv	99
7) Chloroethane	3.60	64	286477	9.992 ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1884796	9.177 ppbv	99
9) Propene	3.04	41	588511	9.993 ppbv	100
10) Heptane	8.25	43	1512937	9.072 ppbv	99
11) Trichlorofluoromethane	4.00	101	2205520	9.071 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1501759	8.845 ppbv	99
13) Ethanol	3.65	45	136063	7.148 ppbv	98
14) Bromoethene	3.79	108	622019	9.965 ppbv	99
15) Acetone	3.90	43	1390000	8.288 ppbv	99
16) 1,3-Butadiene	3.36	39	655173	9.810 ppbv	99
17) tert-Butyl alcohol	4.36	59	1236009	9.114 ppbv	100
18) 1,1-Dichloroethene	4.35	96	666036	9.294 ppbv	99
19) Isopropyl Alcohol	4.02	45	952779	8.811 ppbv	100
20) Methylene Chloride	4.41	84	555318	8.600 ppbv	97
21) Allyl Chloride	4.48	41	981536	9.383 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	722522	9.836 ppbv	90
23) Vinyl Acetate	5.16	43	2286886	10.341 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1582682	9.415 ppbv	98
25) Ethyl Acetate	5.77	43	2684060	9.110 ppbv	99
26) Hexane	5.78	57	1177315	9.295 ppbv	99
27) Carbon Disulfide	4.62	76	1725633	9.931 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2109334	10.215 ppbv	100
29) Chloroform	5.85	83	1996371	8.557 ppbv	99
30) Cyclohexane	7.25	84	993289	9.328 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1238961	9.865 ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2086676	8.957 ppbv	99
34) 2-Butanone	5.33	43	1795833	9.977 ppbv	99
35) Carbon Tetrachloride	7.13	117	2179691	9.370 ppbv	99
36) Benzene	7.01	78	2532523	9.587 ppbv	99
37) 1,2-Dichloroethane	6.42	62	1522173	8.933 ppbv	99
38) Trichloroethene	7.96	130	1000628	10.208 ppbv	99
39) 1,2-Dichloropropane	7.74	63	931812	9.461 ppbv	99
40) 1,4-Dioxane	7.95	88	372757	9.048 ppbv	# 99
41) Tetrahydrofuran	6.15	42	1016719	10.081 ppbv	99
42) Bromodichloromethane	7.92	83	2176219	9.329 ppbv	96
43) Methyl Methacrylate	8.14	69	985588	10.138 ppbv	99

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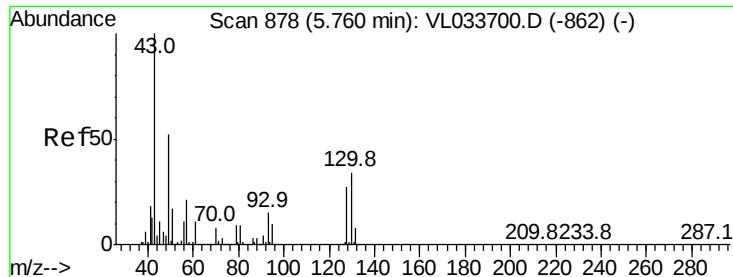
Manual Integrations
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Quant Time: May 17 08:33:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4092747	9.167	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1363324	11.062	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1538846	10.663	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1037017	9.269	ppbv	98
48) Dibromochloromethane	10.45	129	1876557	9.680	ppbv	100
49) Bromoform	13.20	173	1624102	9.957	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2619085	9.460	ppbv	99
51) 2-Hexanone	10.27	43	2170615	10.045	ppbv	100
52) Tetrachloroethene	11.37	164	948551	10.215	ppbv	98
53) Toluene	9.95	91	2916587	10.236	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1624318	9.513	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1227596	8.645	ppbv	96
57) Chlorobenzene	12.30	112	2191574	8.676	ppbv	100
58) Ethyl Benzene	12.86	91	3937967	9.690	ppbv	100
59) m/p-Xylene	13.15	91	6503177m	18.306	ppbv	
60) o-Xylene	13.85	91	3200292	8.937	ppbv	100
61) Styrene	13.69	104	2468093	10.237	ppbv	99
62) Isopropylbenzene	14.82	105	4316437	8.950	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2163017	8.306	ppbv	100
64) n-propylbenzene	15.72	120	1116978	8.954	ppbv	98
65) tert-Butylbenzene	16.91	119	3870591	8.791	ppbv	100
66) Benzyl Chloride	17.15	91	2164476	10.321	ppbv	100
67) sec-Butylbenzene	17.46	105	5394125	8.753	ppbv	100
69) p-Isopropyltoluene	17.81	119	4536895	8.907	ppbv	100
70) n-Butylbenzene	18.71	91	4713546	8.629	ppbv	100
71) 2-Chlorotoluene	15.61	91	3257588	9.105	ppbv	100
72) 4-Ethyltoluene	16.00	105	3798033	9.276	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3569075	8.934	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3728565	8.576	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2188063	8.213	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2181691	8.616	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2103291	8.402	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1527312	8.069	ppbv	99
79) Naphthalene	22.41	128	4324272m	10.708	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	1838962	11.985	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2189724	9.260	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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ClientSampleId :

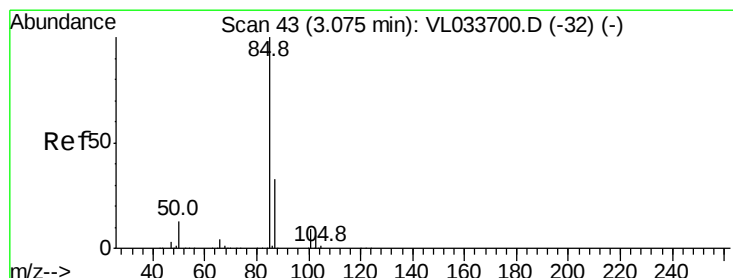
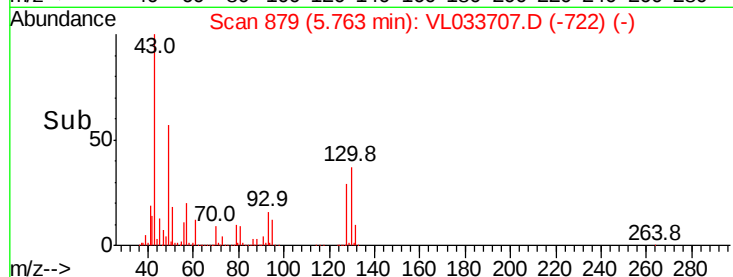
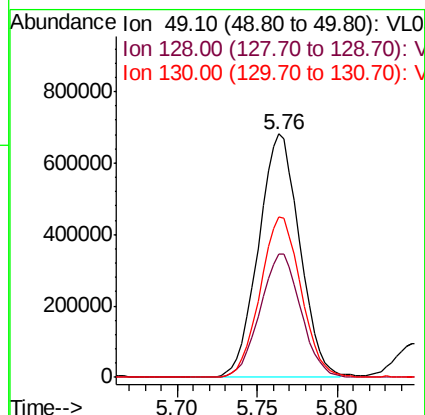
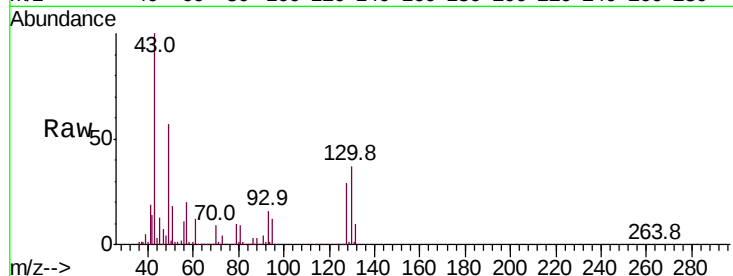
ICVVL051719

Tot Ion: 49 Resp: 1208827

Ion	Ratio	Lower	Upper
49	100		
128	50.5	25.2	75.6
130	65.7	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 9.118 ppbv

RT: 3.08 min Scan# 44

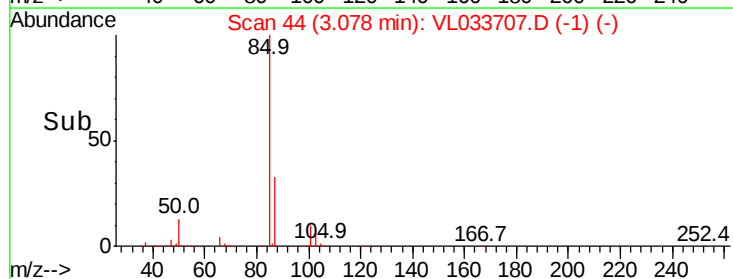
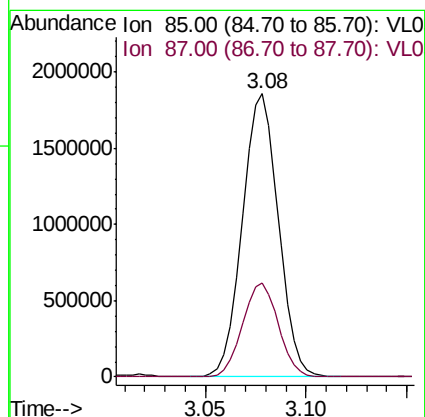
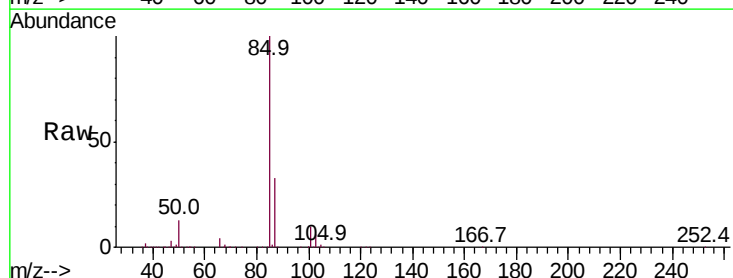
Delta R.T. 0.00 min

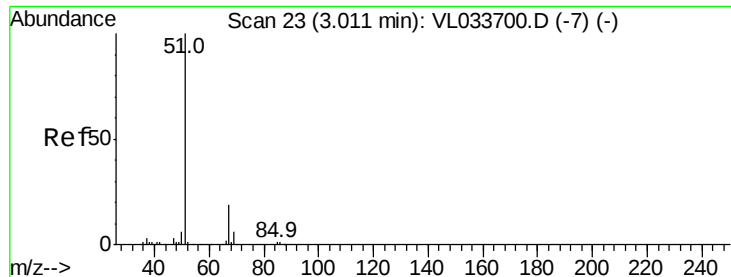
Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion: 85 Resp: 2322934

Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.3	39.5





#3

Chlorodifluoromethane

Concen: 9.748 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tot Ion: 51 Resp: 1349709

Ion Ratio Lower Upper

51 100

67 18.5 15.6 23.4

Instrument :

MSVOA_L

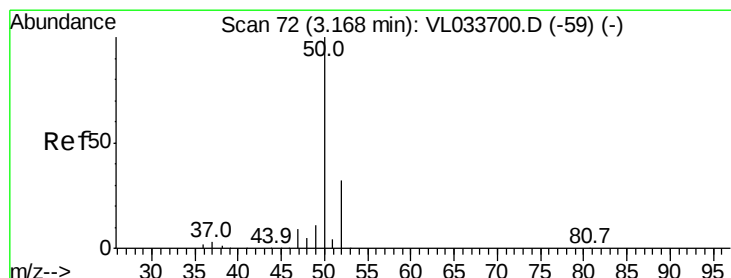
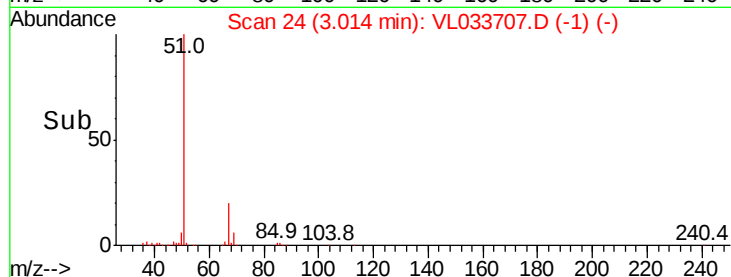
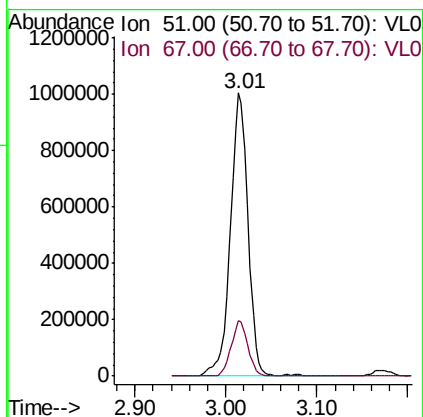
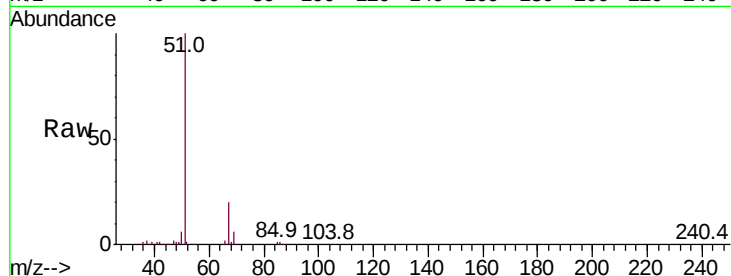
ClientSampleId :

ICVVL051719

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#4

Chloromethane

Concen: 9.575 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033707.D

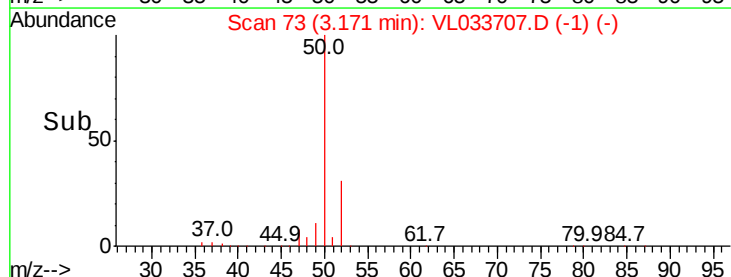
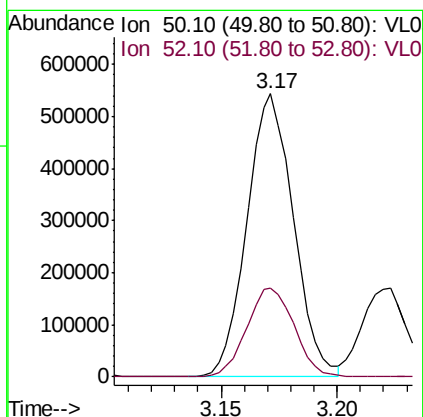
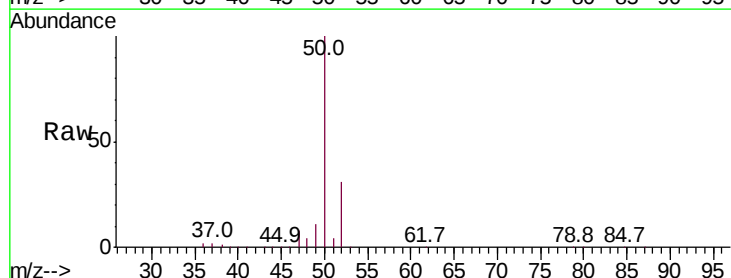
Acq: 17 May 2019 7:10

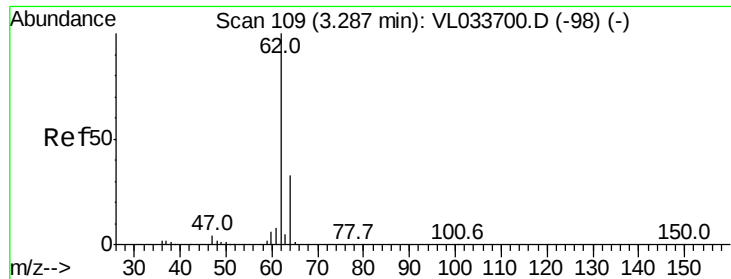
Tgt Ion: 50 Resp: 758347

Ion Ratio Lower Upper

50 100

52 31.3 25.7 38.5





#5

Vinyl Chloride

Concen: 9.287 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 62 Resp: 749219

Ion Ratio Lower Upper

62 100

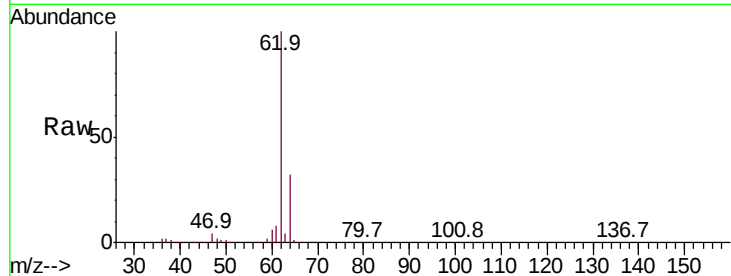
64 32.4 26.4 39.6

Manual Integrations

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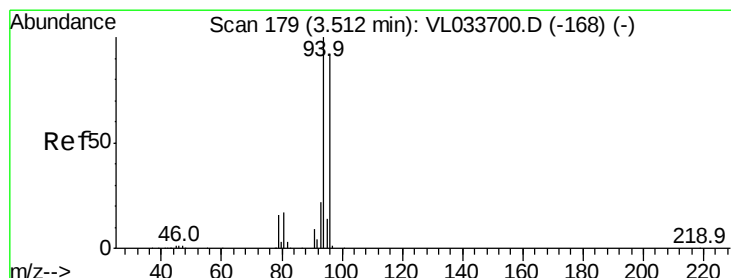
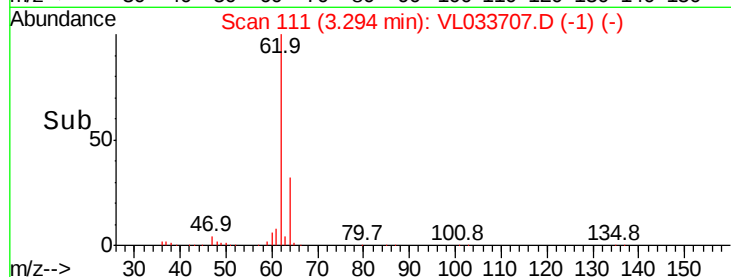
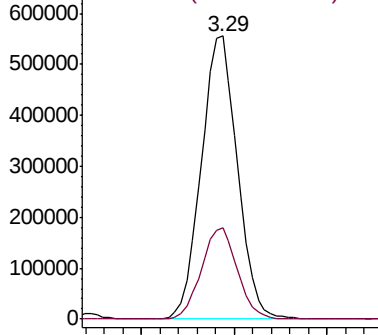
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.944 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033707.D

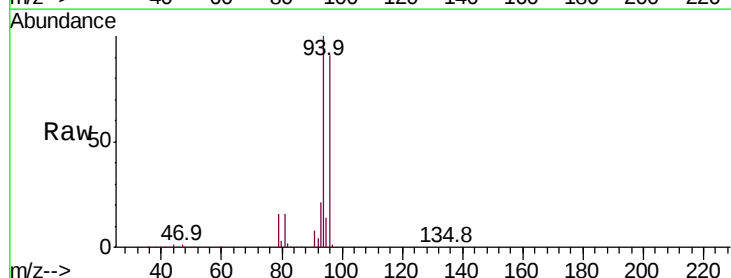
Acq: 17 May 2019 7:10

Tgt Ion: 94 Resp: 489498

Ion Ratio Lower Upper

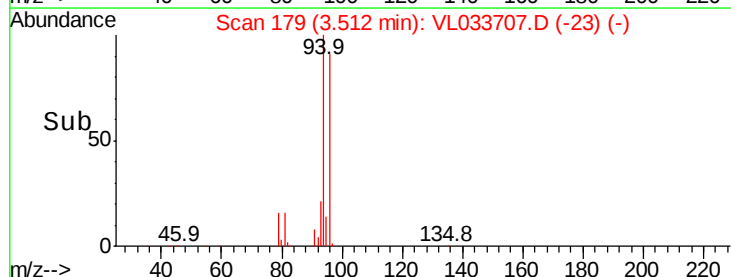
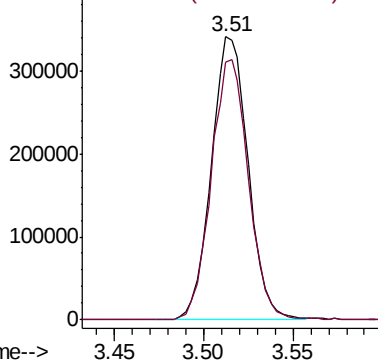
94 100

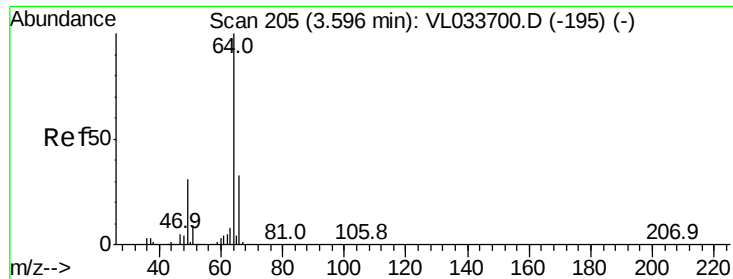
96 91.3 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.992 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 64 Resp: 286477

Ion Ratio Lower Upper

64 100

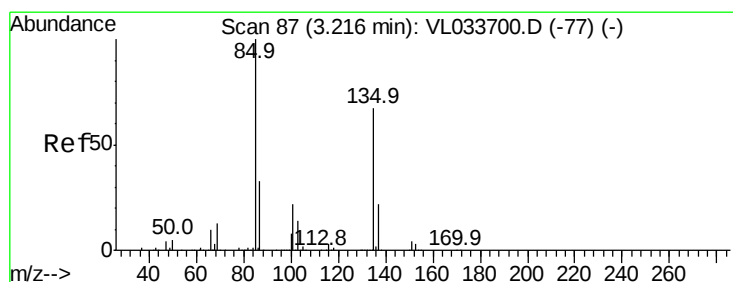
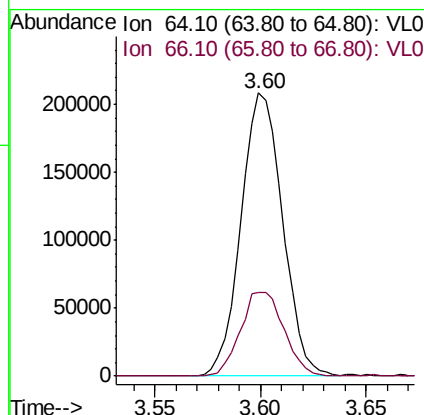
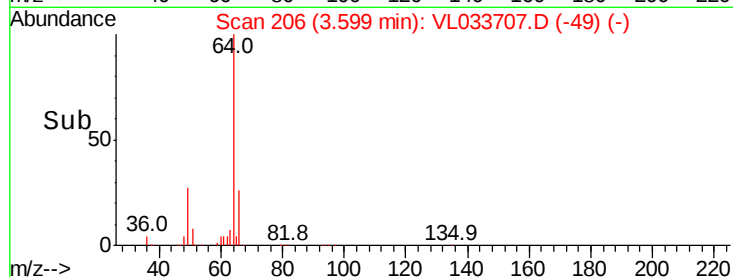
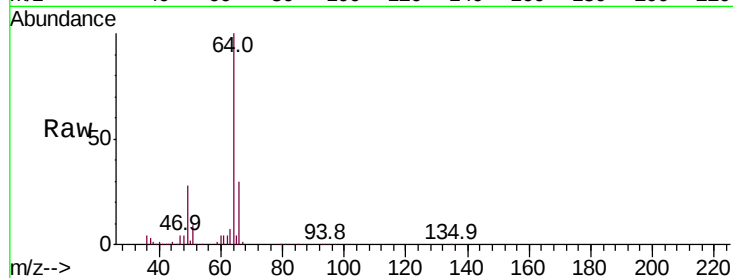
66 29.8 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 9.177 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033707.D

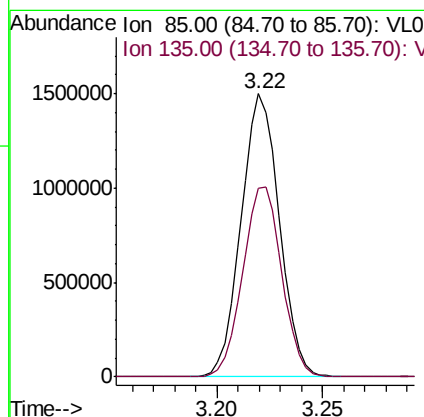
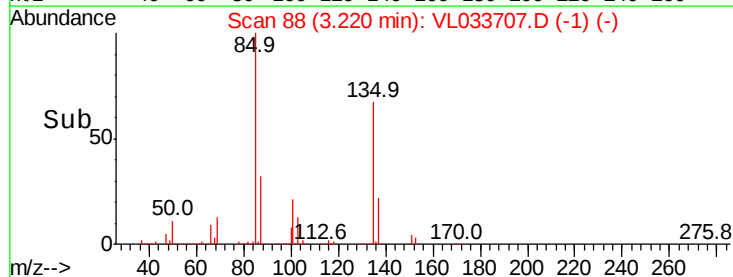
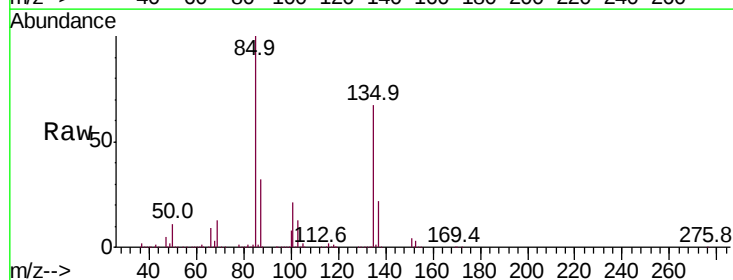
Acq: 17 May 2019 7:10

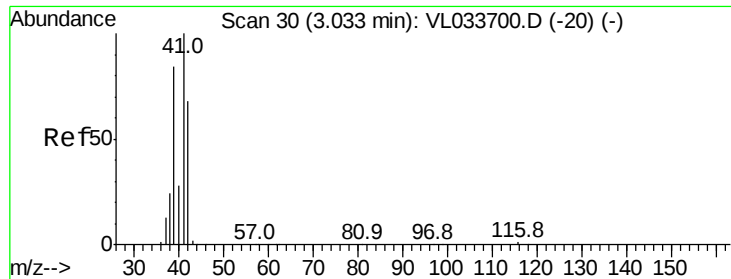
Tgt Ion: 85 Resp: 1884796

Ion Ratio Lower Upper

85 100

135 68.8 54.5 81.7





#9

Propene

Concen: 9.993 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 41 Resp: 588511

Ion Ratio Lower Upper

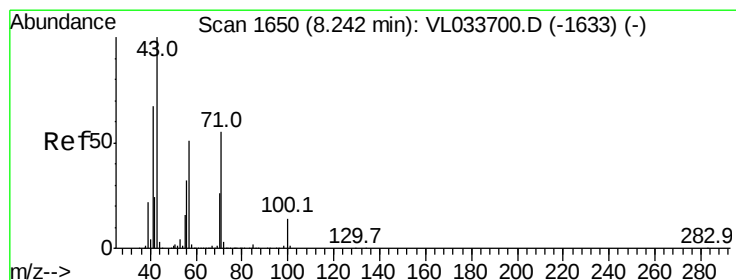
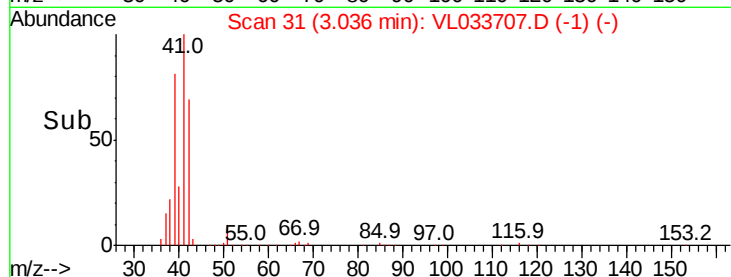
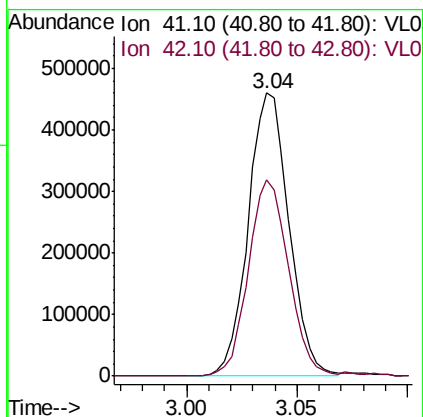
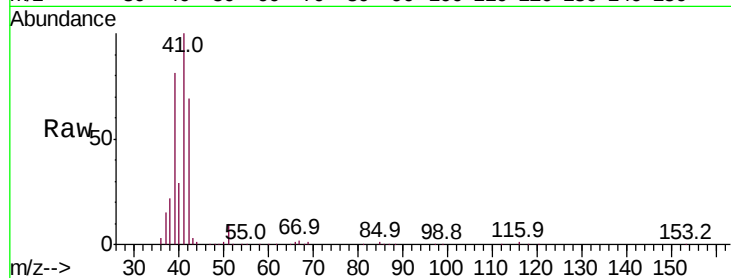
41 100

42 69.9 56.1 84.1

Manual Integrations
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#10

Heptane

Concen: 9.072 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033707.D

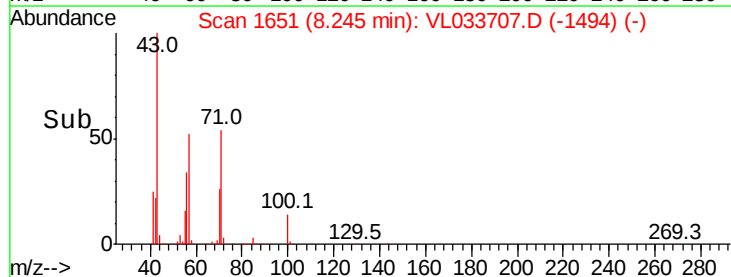
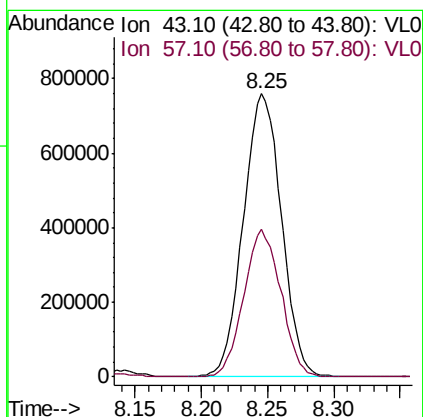
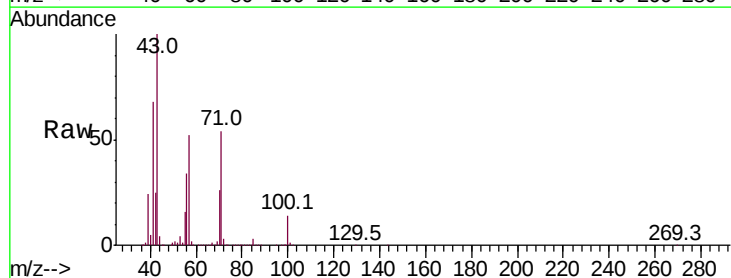
Acq: 17 May 2019 7:10

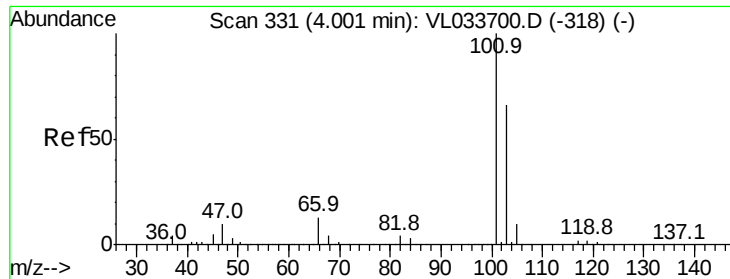
Tgt Ion: 43 Resp: 1512937

Ion Ratio Lower Upper

43 100

57 50.9 41.4 62.0





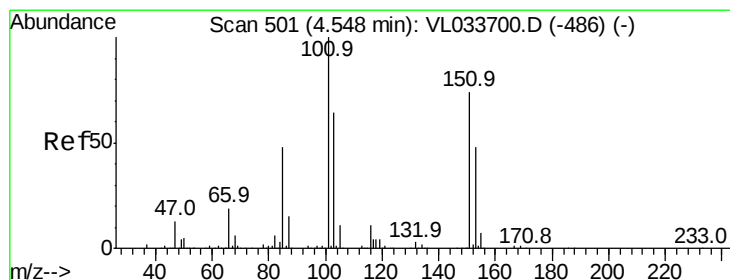
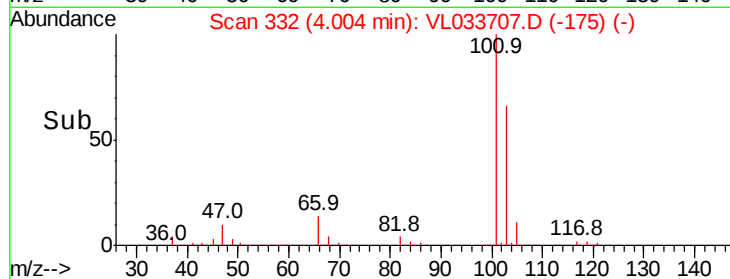
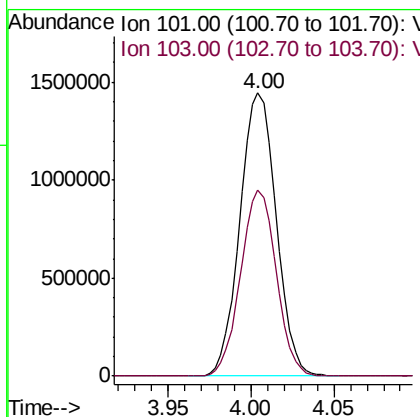
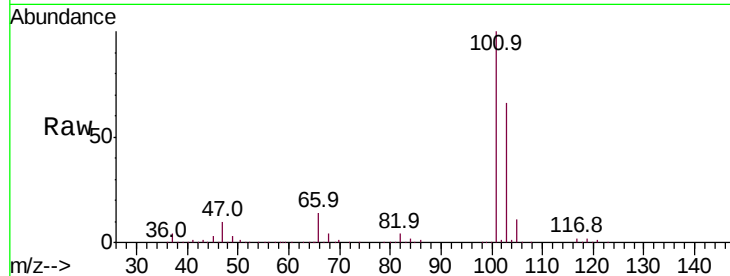
#11
 Trichlorofluoromethane
 Concen: 9.071 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Tot Ion:101 Resp: 2205520
 Ion Ratio Lower Upper
 101 100
 103 65.8 52.6 78.8

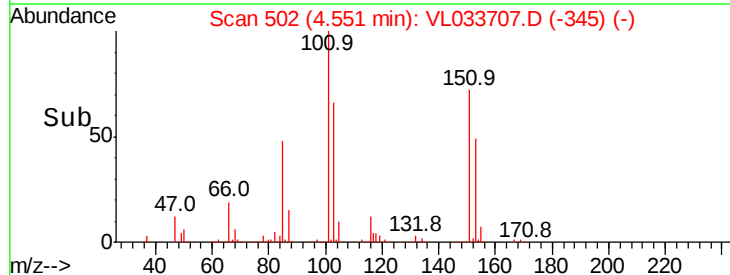
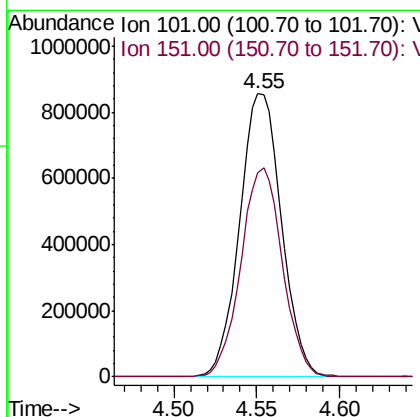
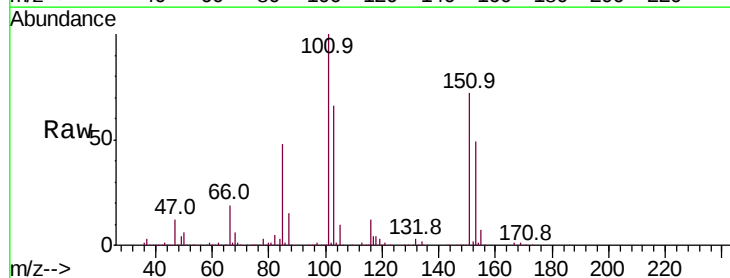
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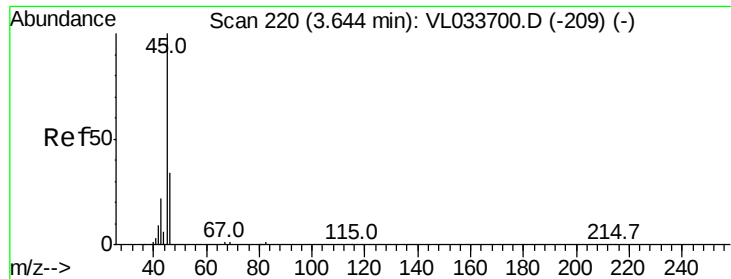
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.845 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Tgt Ion:101 Resp: 1501759
 Ion Ratio Lower Upper
 101 100
 151 73.3 58.2 87.4





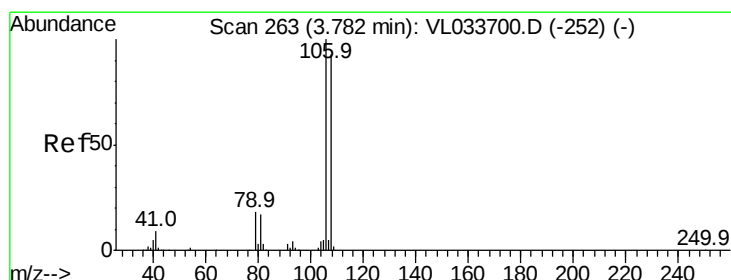
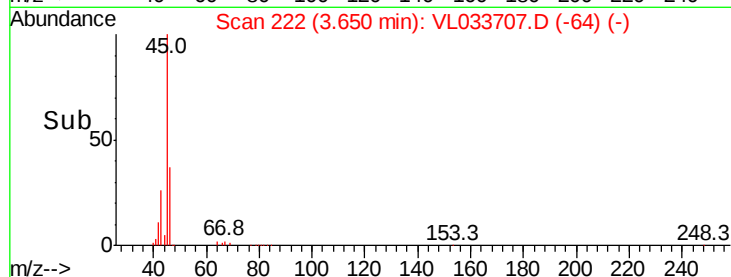
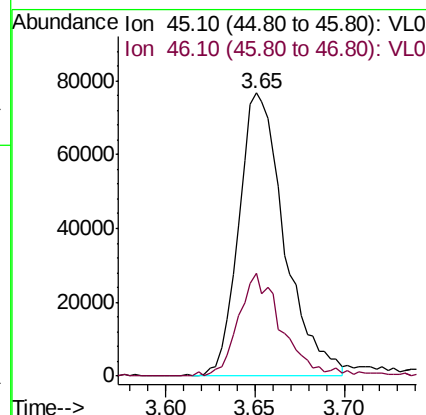
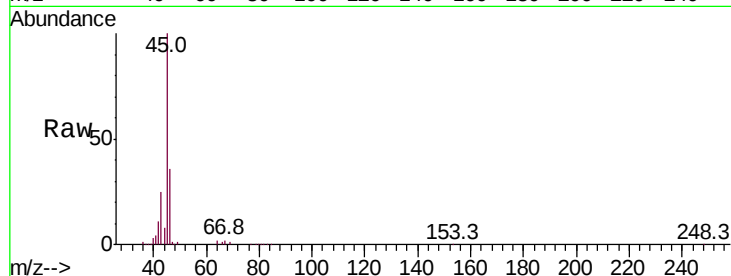
#13
Ethanol
Concen: 7.148 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.5	14.8	59.0

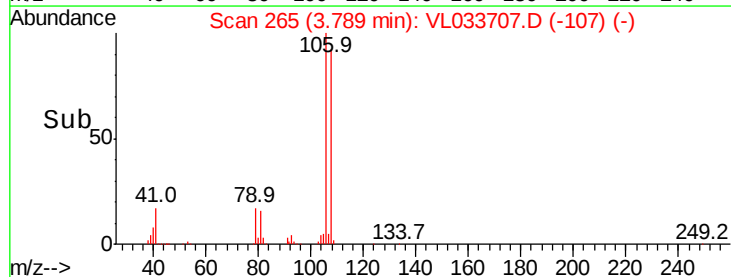
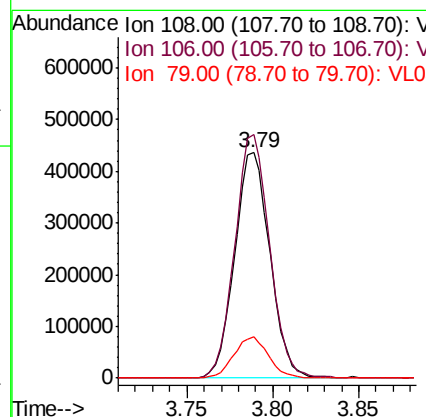
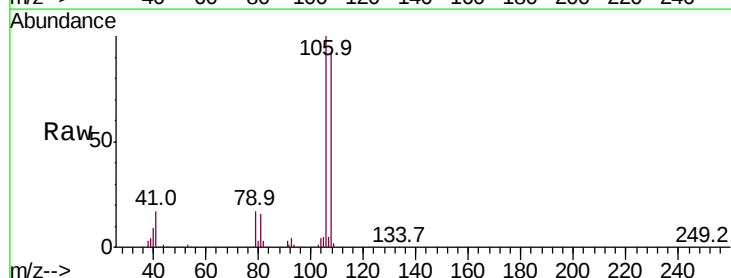
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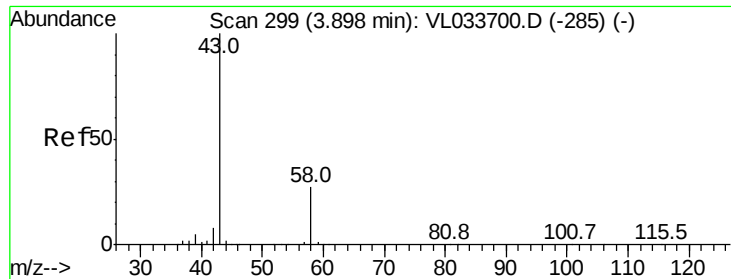
MMDadoda
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#14
Bromoethene
Concen: 9.965 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.01 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.2	86.5	129.7
79	18.3	15.1	22.7





#15

Acetone

Concen: 8.288 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 43 Resp: 1390000

Ion Ratio Lower Upper

43 100

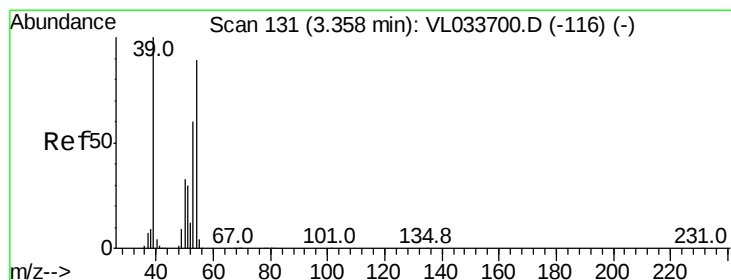
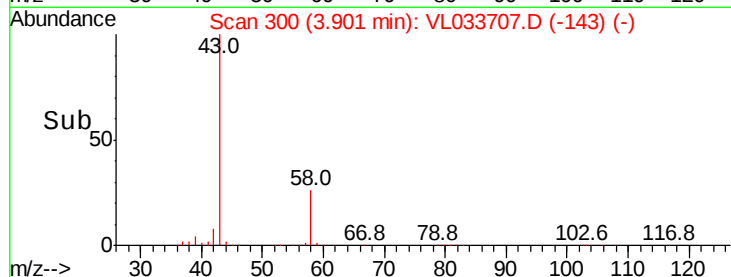
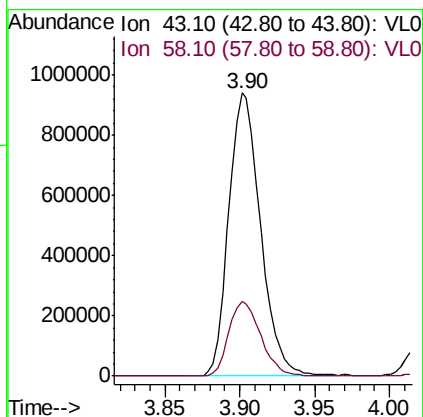
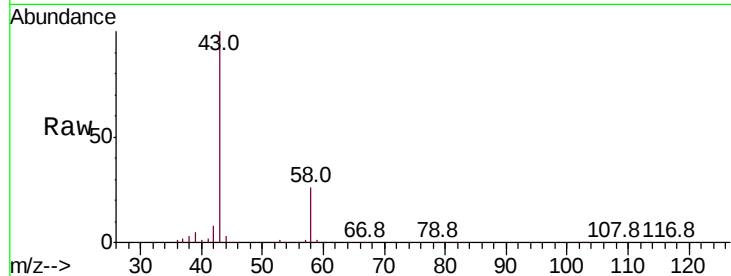
58 27.1 21.3 31.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.810 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL033707.D

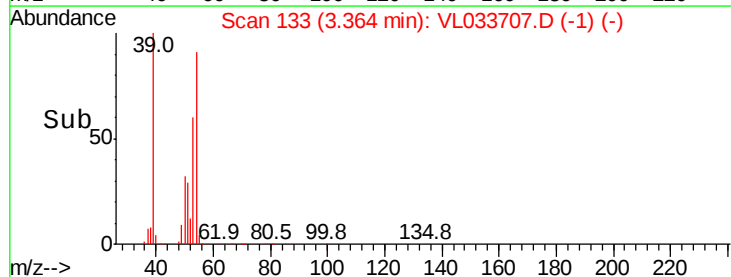
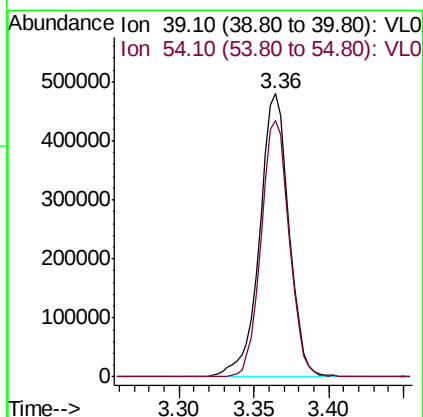
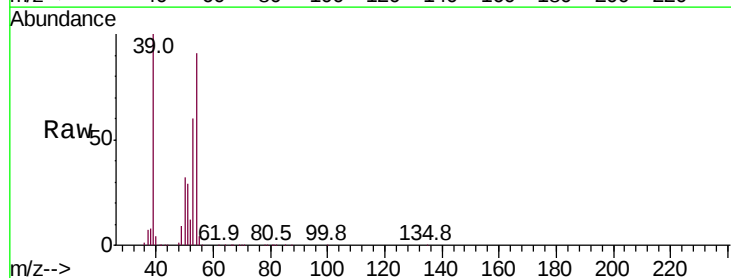
Acq: 17 May 2019 7:10

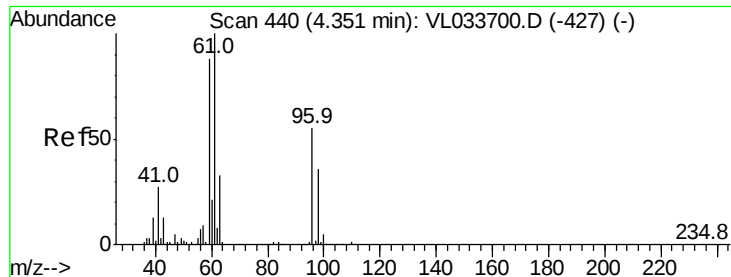
Tgt Ion: 39 Resp: 655173

Ion Ratio Lower Upper

39 100

54 87.2 69.0 103.6





#17

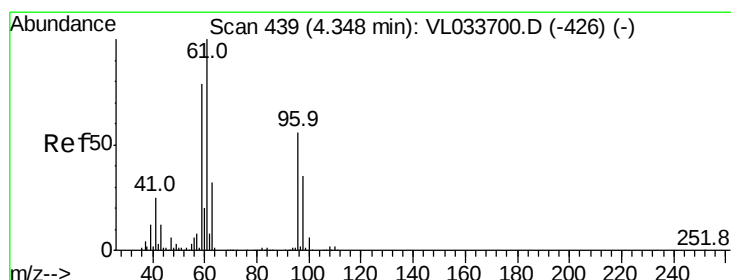
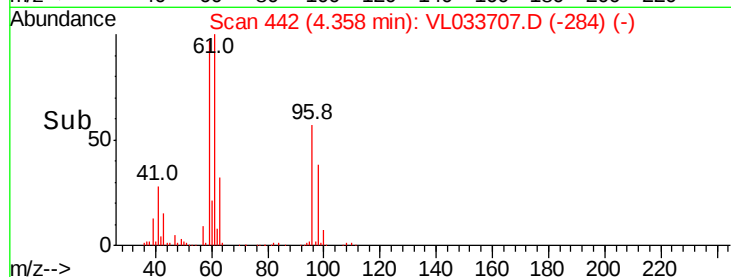
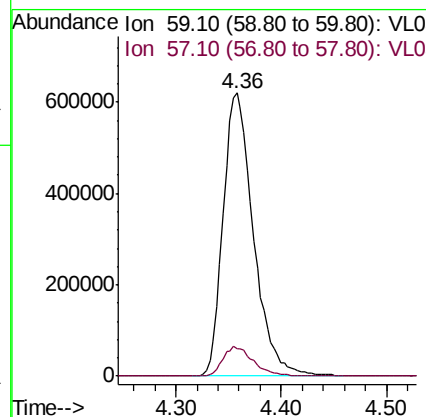
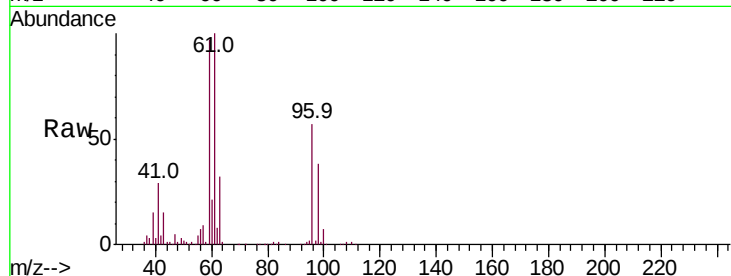
tert-Butyl alcohol
Concen: 9.114 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.01 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 59 Resp: 1236009
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
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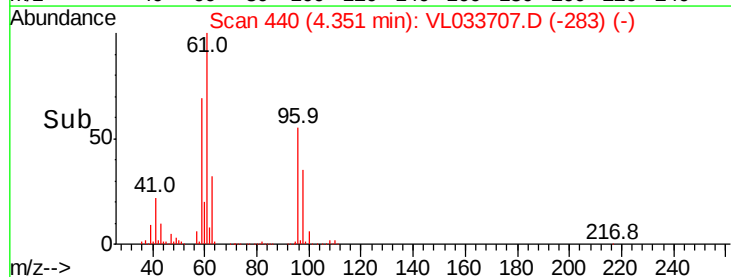
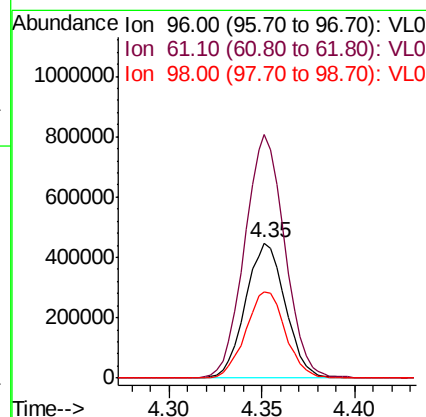
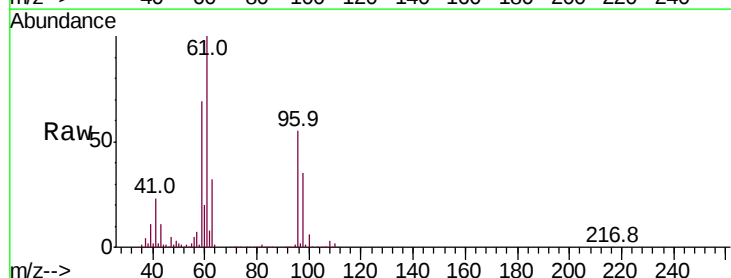
MMDadoda
5/20/2019 12:05:30 PM

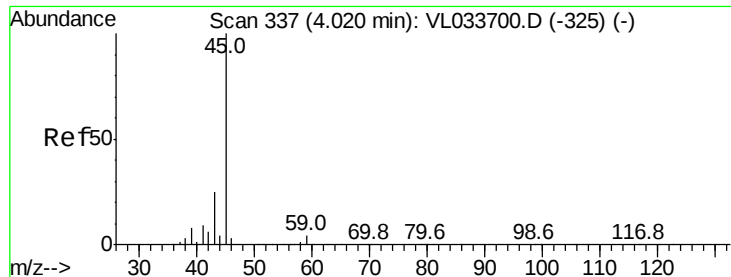


#18

1,1-Dichloroethene
Concen: 9.294 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 96 Resp: 666036
Ion Ratio Lower Upper
96 100
61 180.4 143.1 214.7
98 63.8 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.811 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 45 Resp: 952779

Ion Ratio Lower Upper

45 100

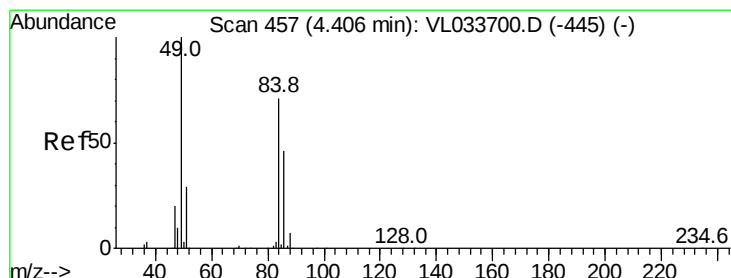
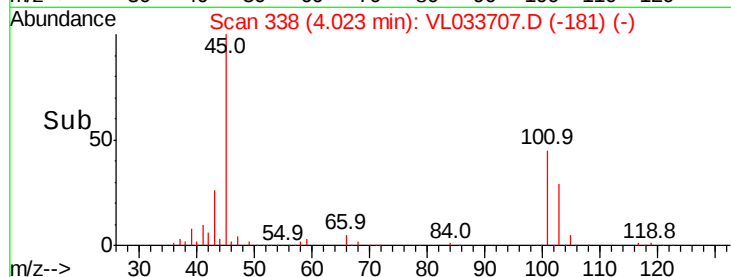
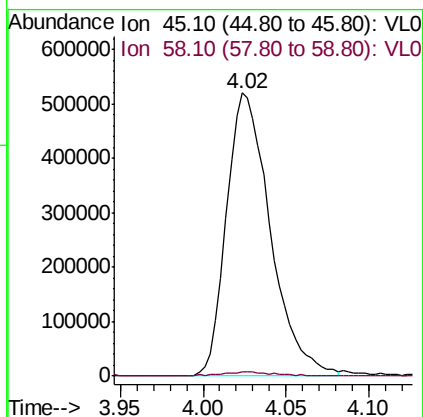
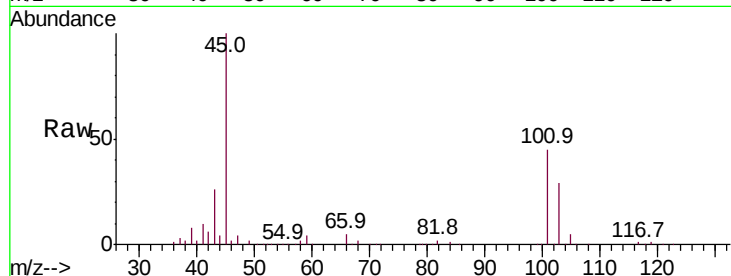
58 2.1 1.6 2.4

Manual Integrations

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#20

Methylene Chloride

Concen: 8.600 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion: 84 Resp: 555318

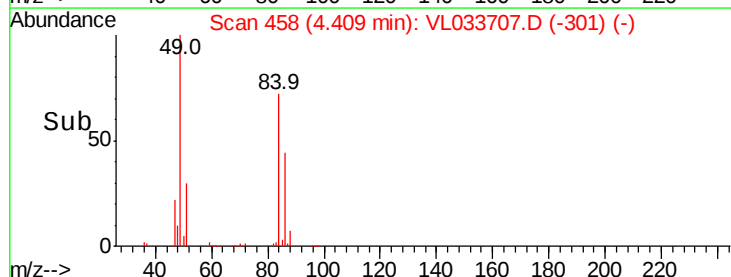
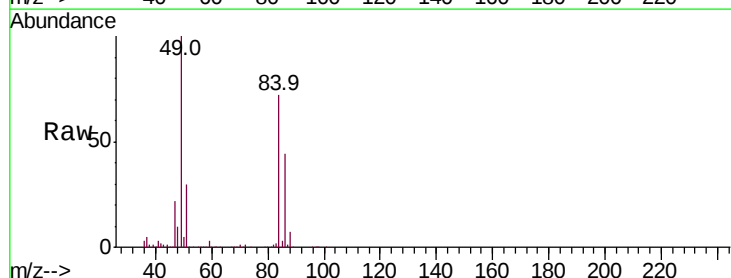
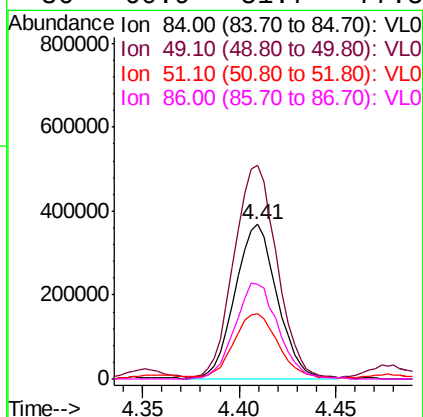
Ion Ratio Lower Upper

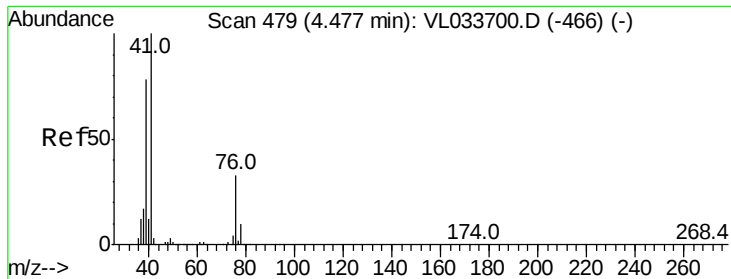
84 100

49 137.3 112.8 169.2

51 41.8 33.4 50.0

86 60.9 51.7 77.5





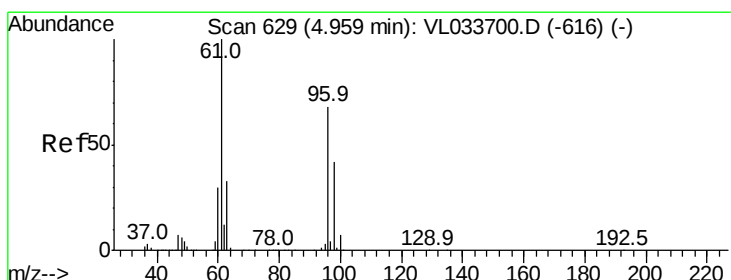
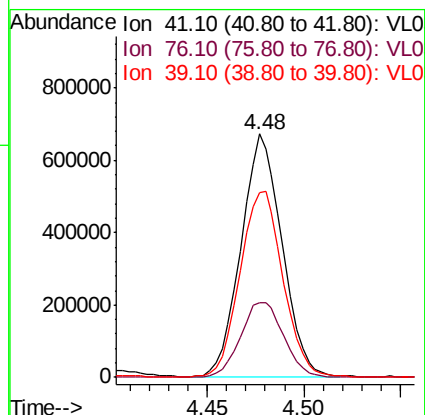
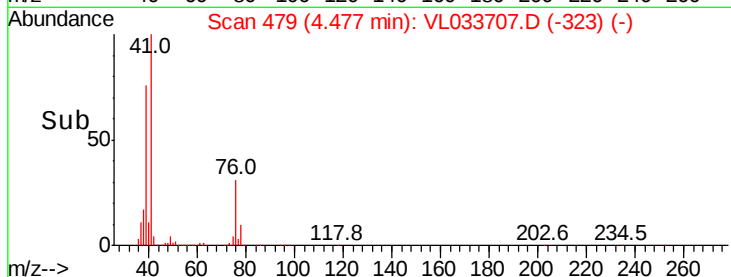
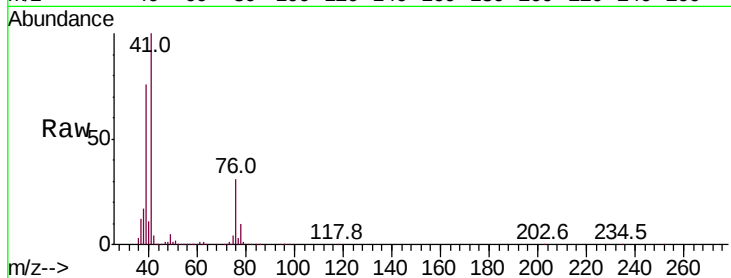
#21
Allvl Chloride
Concen: 9.383 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Resp	Lower	Upper
41	100	981536		
76	32.9	25.9	38.9	
39	81.1	64.6	97.0	

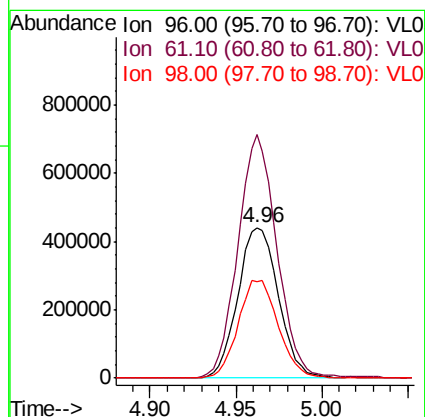
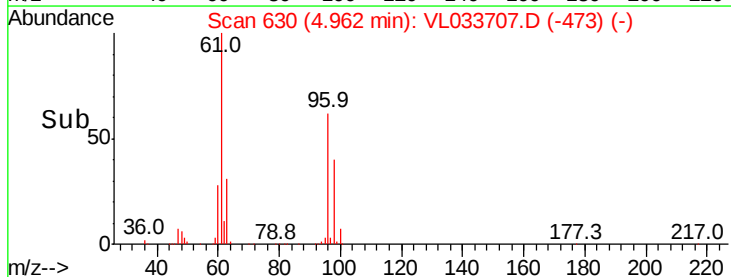
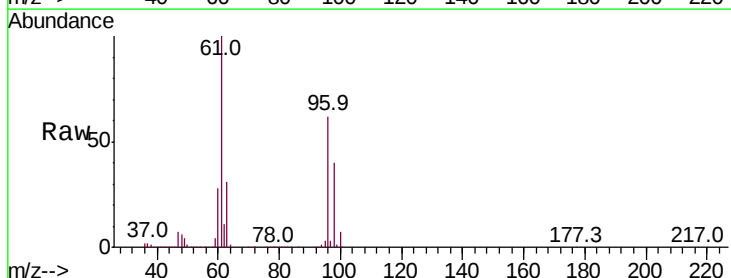
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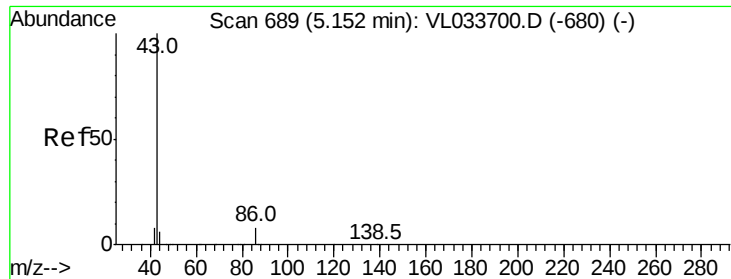
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.836 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	722522		
61	161.4	116.8	175.2	
98	63.9	49.4	74.0	





#23

Vinyl Acetate

Concen: 10.341 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 43 Resp: 2286886

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

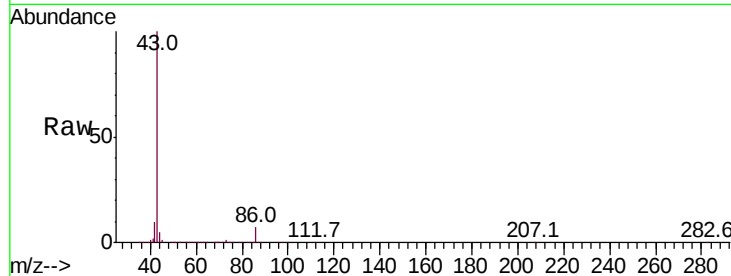
42 9.7 7.5 11.3

44 5.1 4.4 6.6

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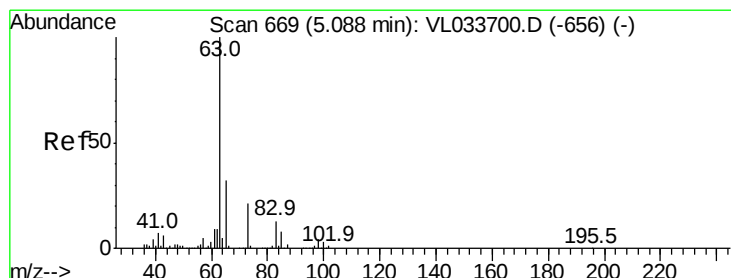
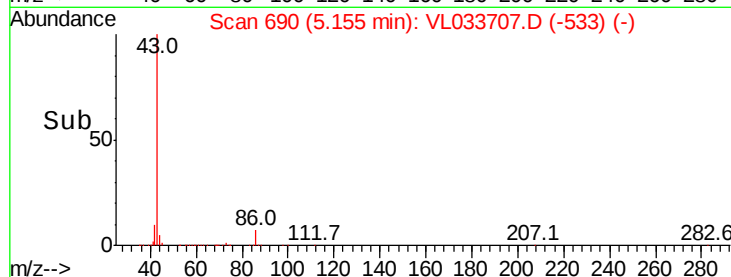
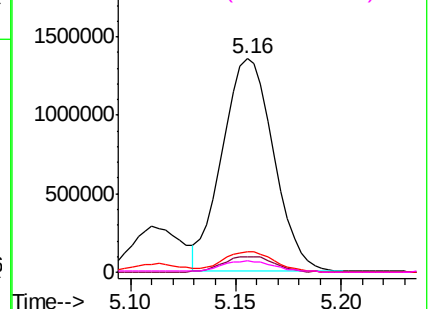
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.415 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

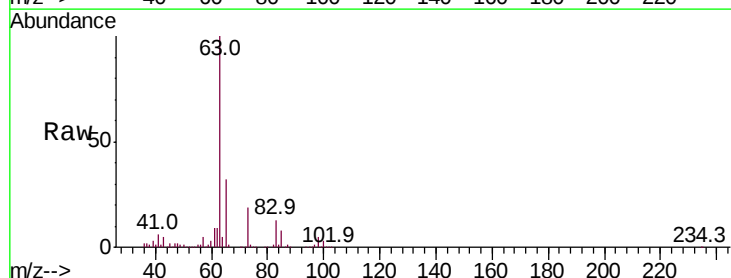
Tgt Ion: 63 Resp: 1582682

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.5

100 2.6 1.4 4.2

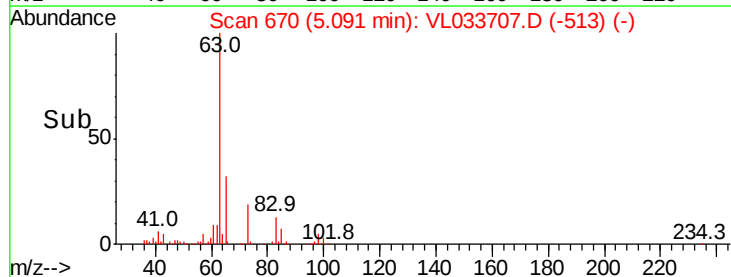
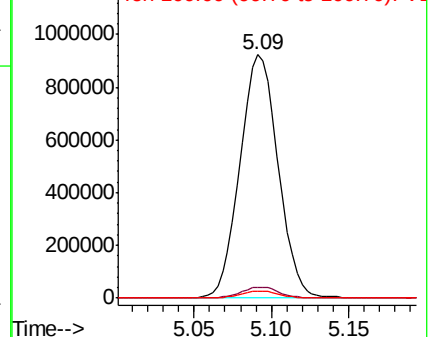


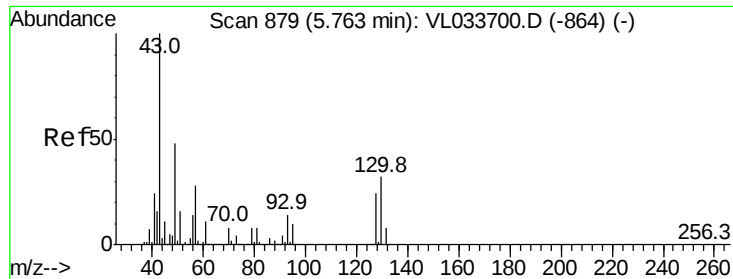
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





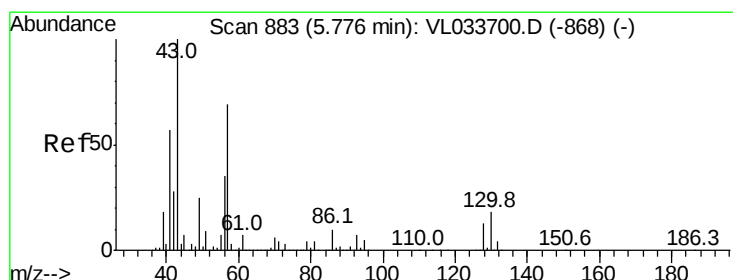
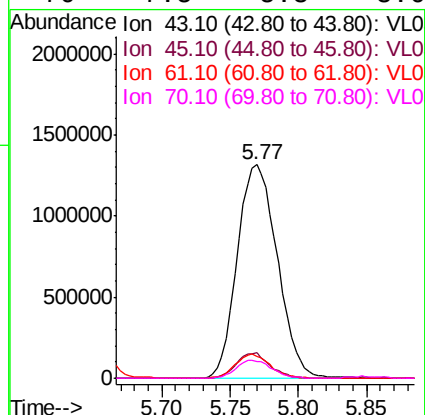
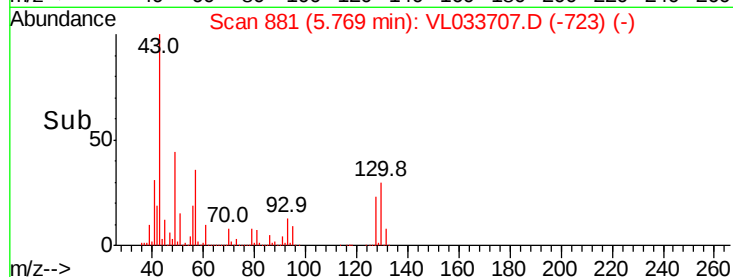
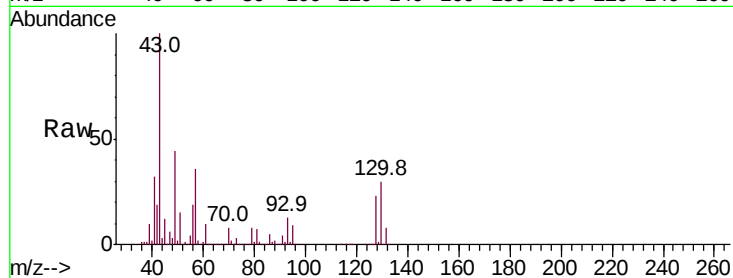
#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	43	Ratio	Lower	Upper
43	100			
45	10.0		7.9	11.9
61	9.9		7.7	11.5
70	7.5		5.8	8.6

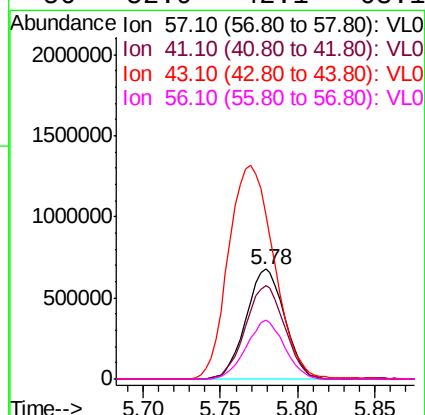
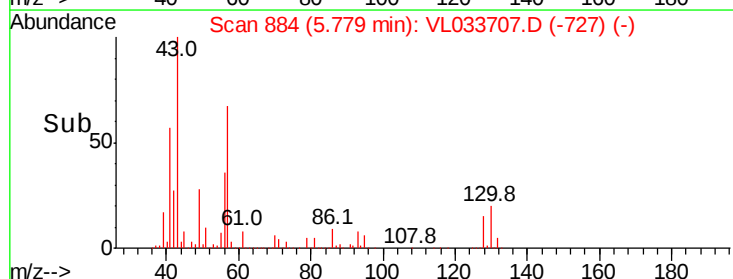
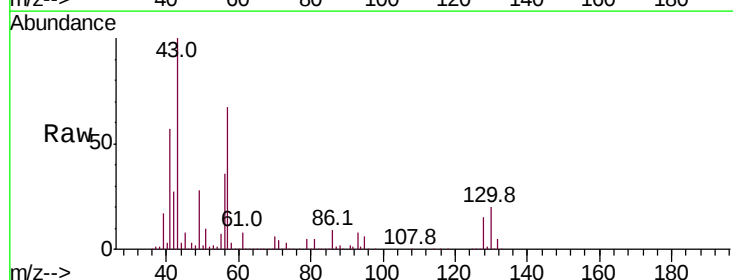
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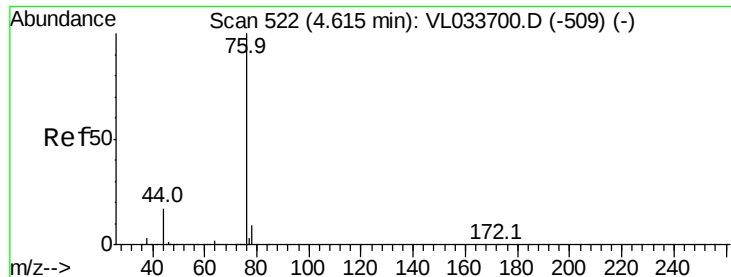
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#26
Hexane
Concen: 9.295 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	57	Ratio	Lower	Upper
57	100			
41	87.0		69.8	104.6
43	229.2		181.8	272.6
56	52.9		42.1	63.1





#27

Carbon Disulfide

Concen: 9.931 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 76 Resp: 1725633

Ion Ratio Lower Upper

76 100

44 17.7 13.8 20.8

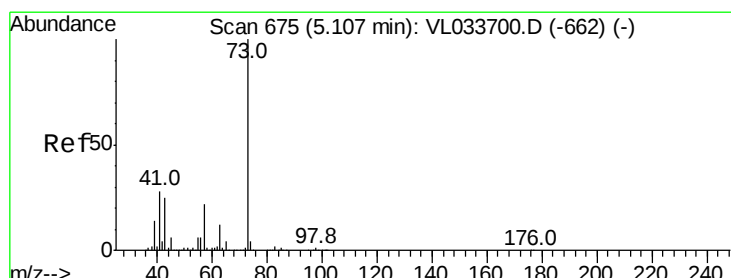
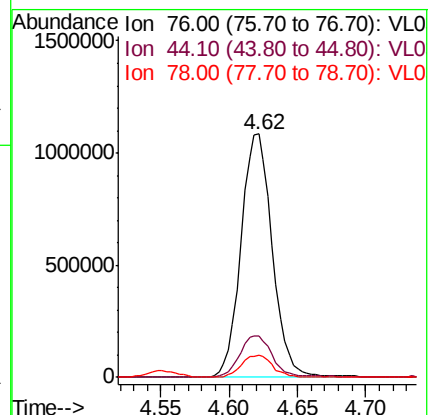
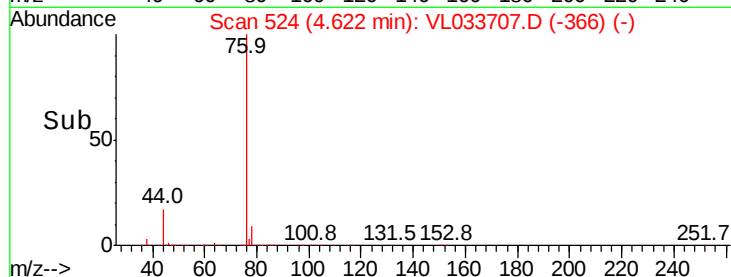
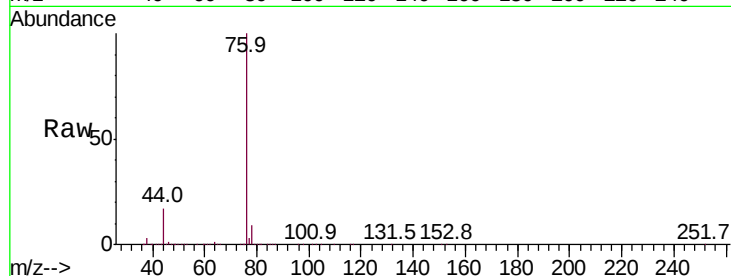
78 9.2 7.4 11.0

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.215 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.01 min

Lab File: VL033707.D

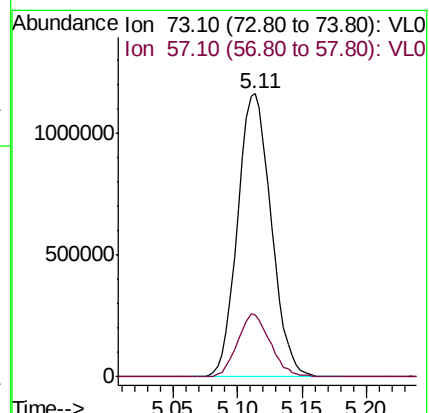
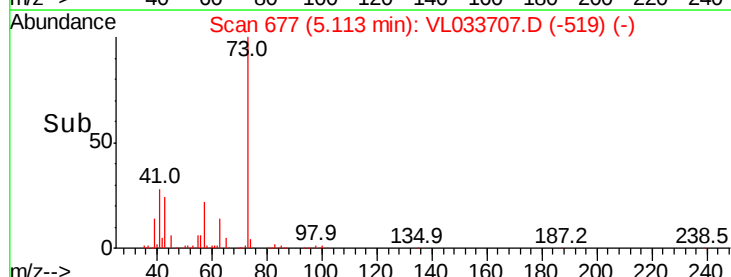
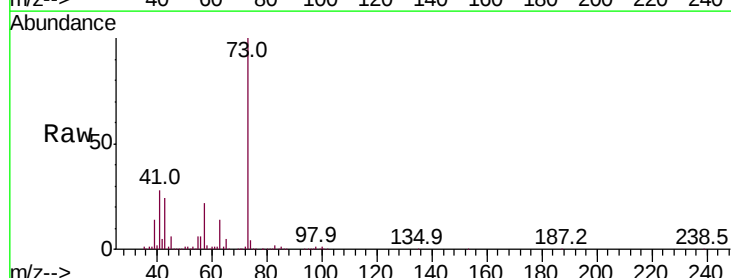
Acq: 17 May 2019 7:10

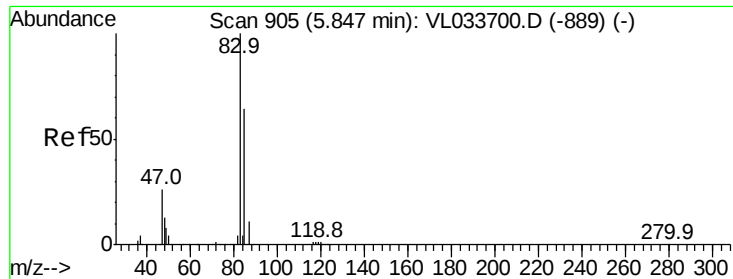
Tgt Ion: 73 Resp: 2109334

Ion Ratio Lower Upper

73 100

57 21.7 17.4 26.2





#29

Chloroform

Concen: 8.557 ppbv

RT: 5.85 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 83 Resp: 1996371

Ion Ratio Lower Upper

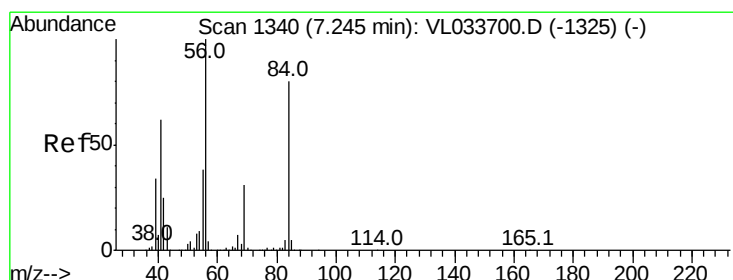
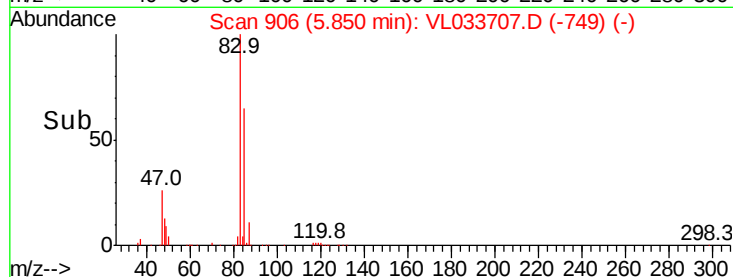
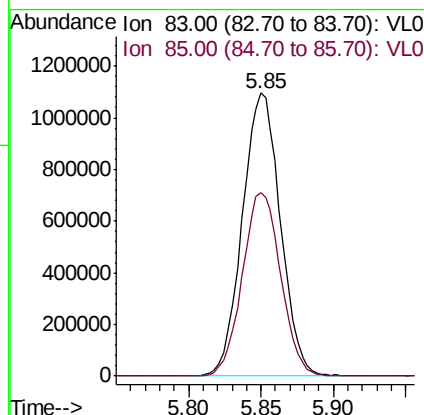
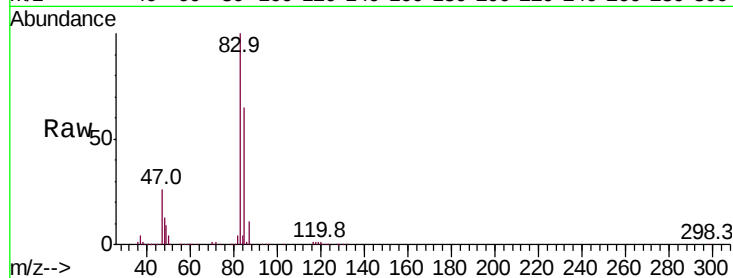
83 100

85 64.9 51.5 77.3

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#30

Cyclohexane

Concen: 9.328 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

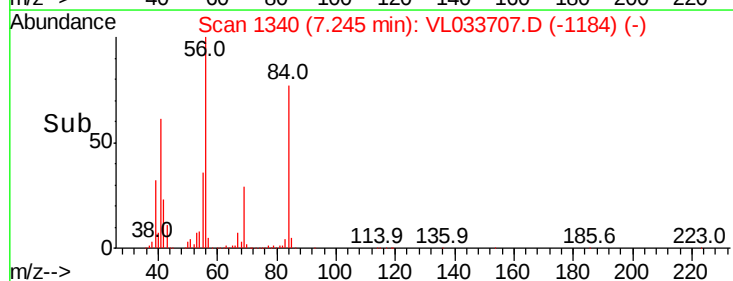
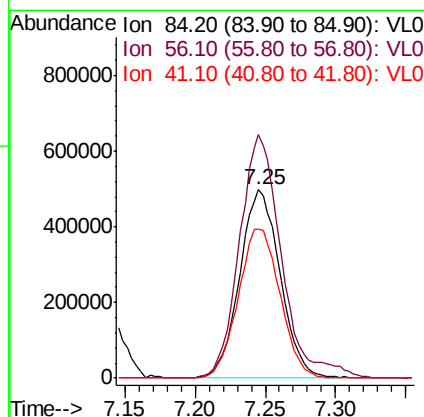
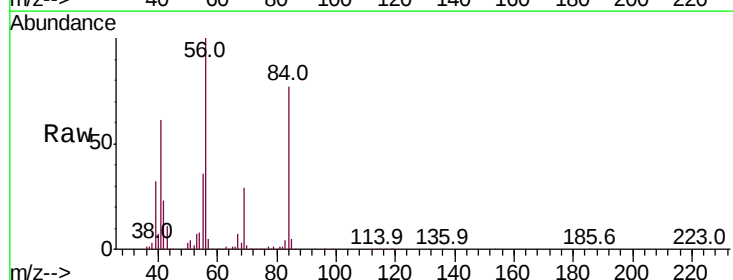
Tgt Ion: 84 Resp: 993289

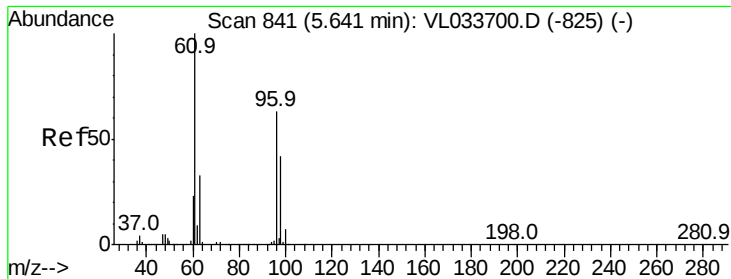
Ion Ratio Lower Upper

84 100

56 135.7 107.7 161.5

41 82.6 66.0 99.0





#31

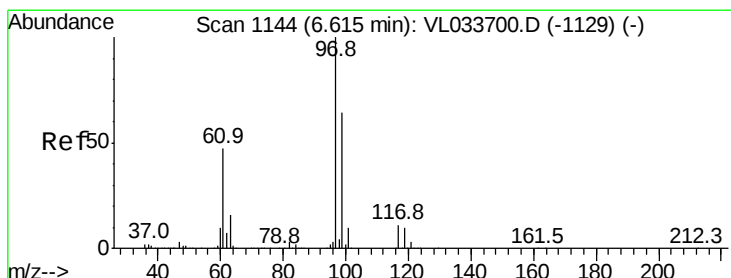
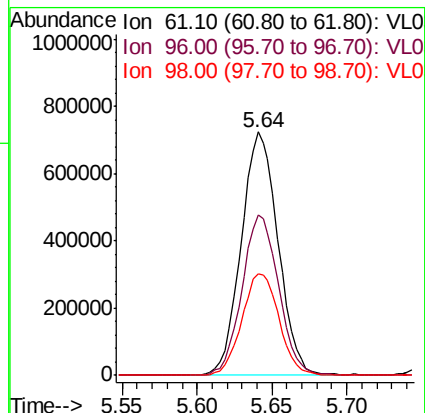
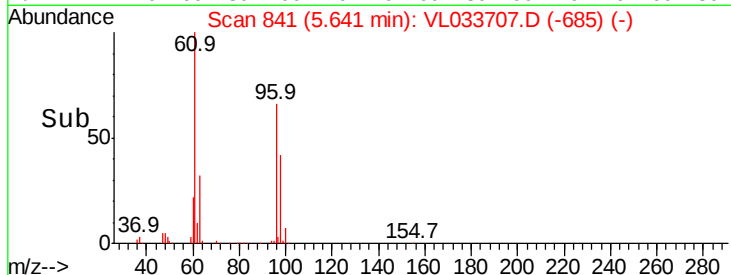
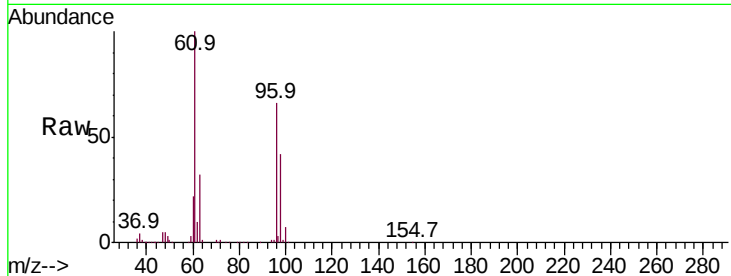
cis-1,2-Dichloroethene
Concen: 9.865 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.8	50.8	76.2
98	41.8	33.3	49.9

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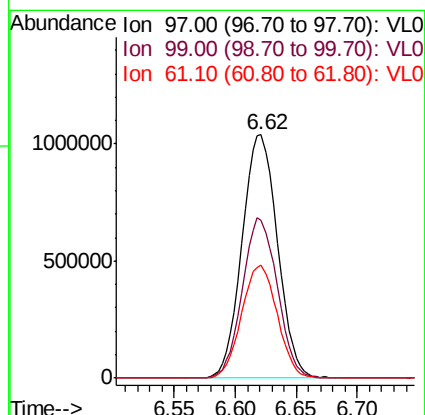
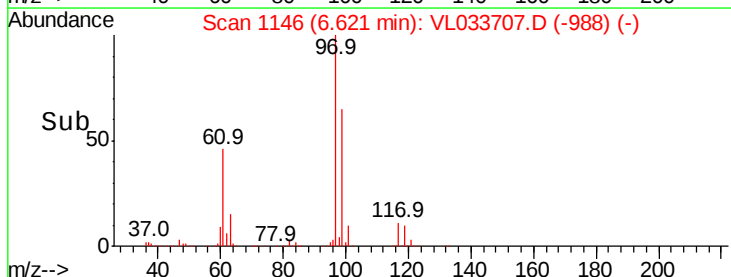
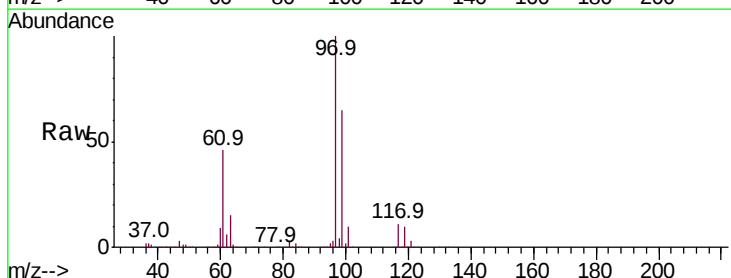
MMDadoda
5/20/2019 12:05:30 PM

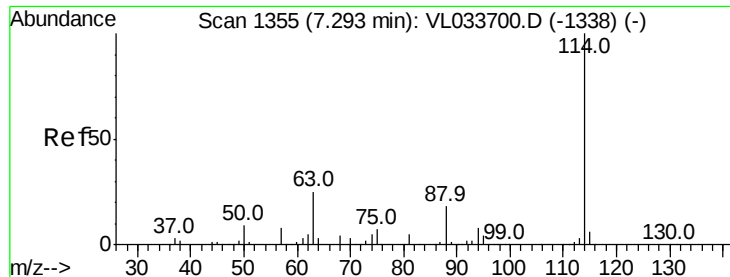


#32

1,1,1-Trichloroethane
Concen: 8.957 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	46.8	37.8	56.8





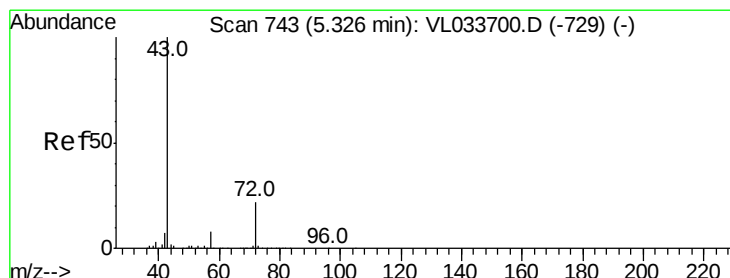
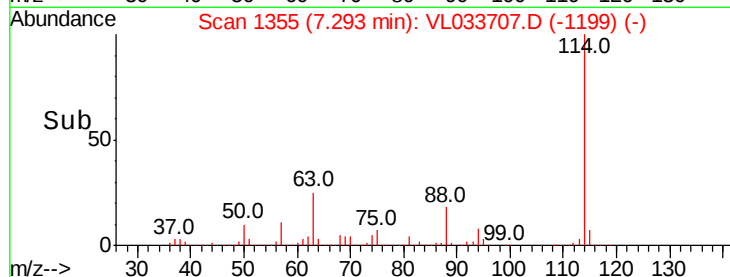
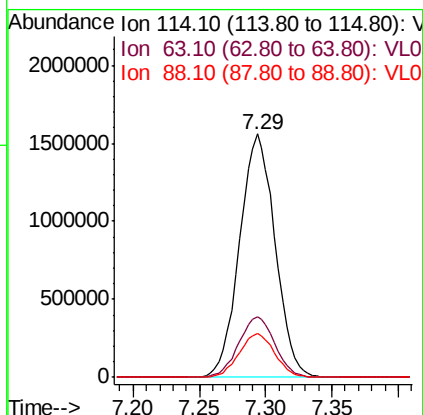
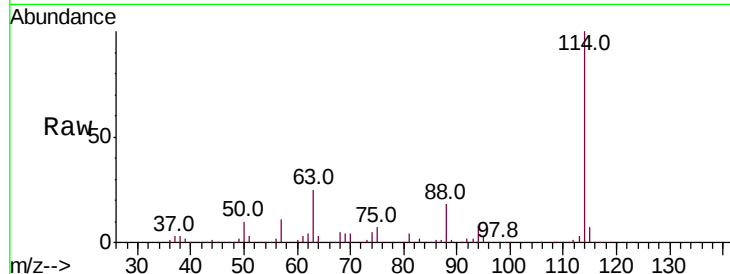
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.9	31.3
88	18.0	14.3	21.5

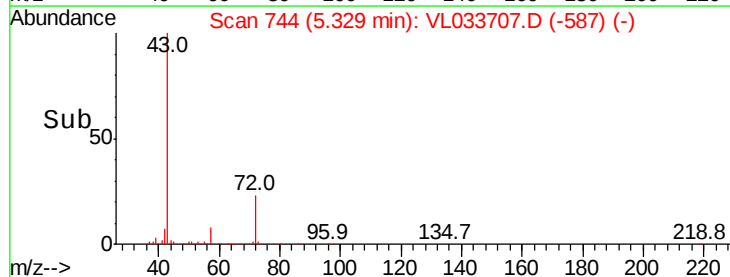
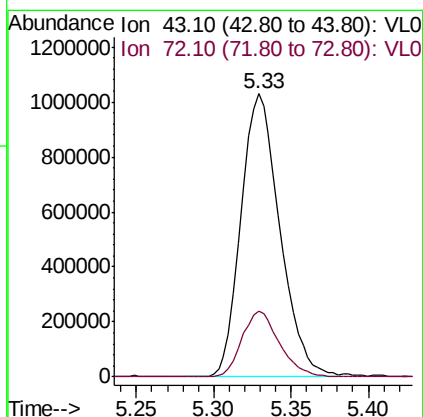
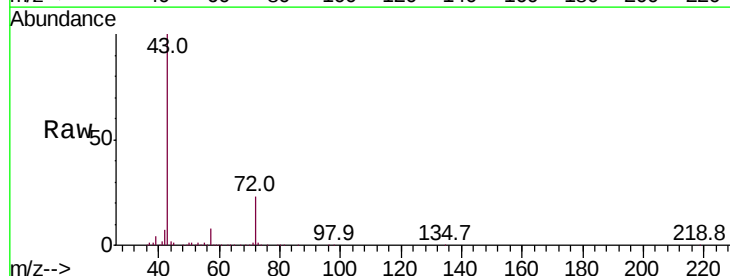
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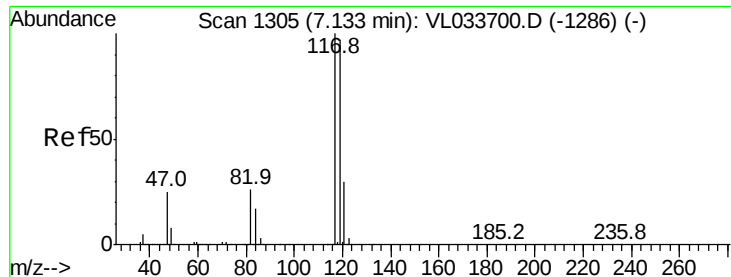
MMDadoda
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#34
 2-Butanone
 Concen: 9.977 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.370 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampled :

ICVVL051719

Tot Ion:117 Resp: 2179691

Ion Ratio Lower Upper

117 100

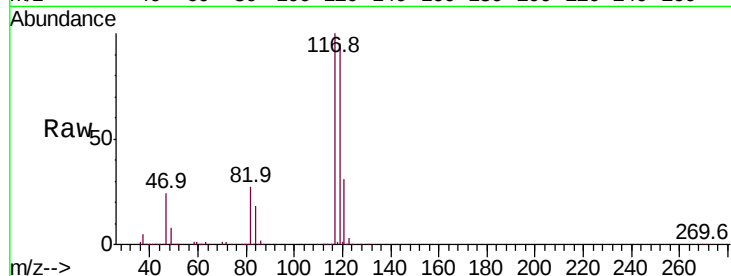
119 95.2 77.2 115.8

121 30.8 24.1 36.1

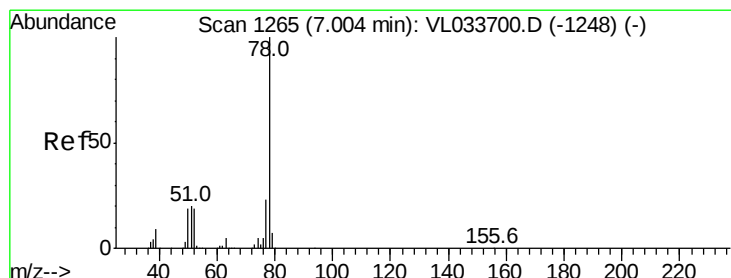
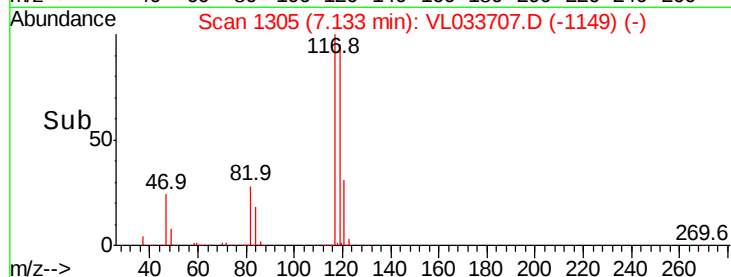
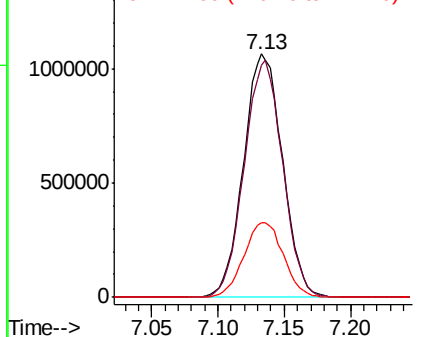
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.587 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

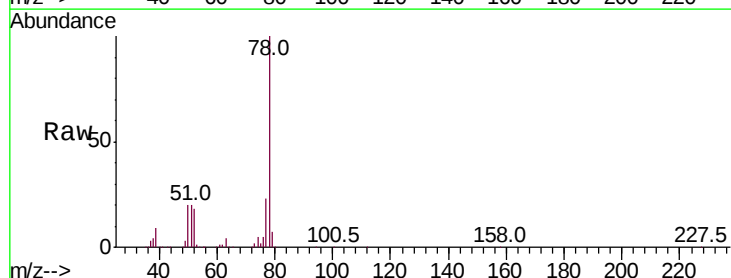
Tgt Ion: 78 Resp: 2532523

Ion Ratio Lower Upper

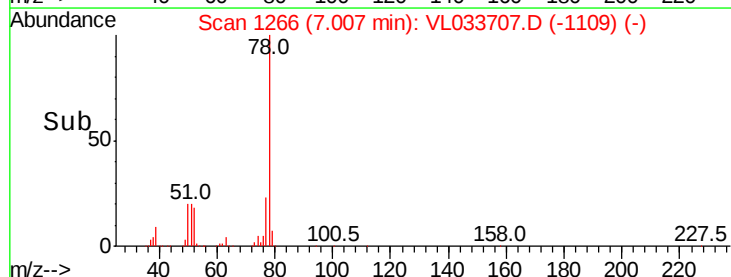
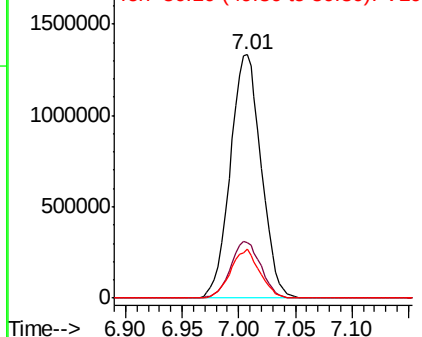
78 100

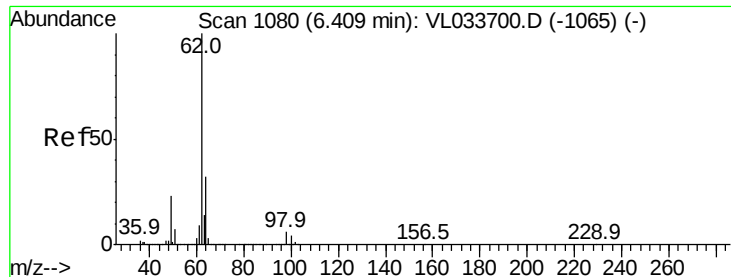
77 23.0 18.4 27.6

50 20.1 15.5 23.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.933 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 62 Resp: 1522173

Ion Ratio Lower Upper

62 100

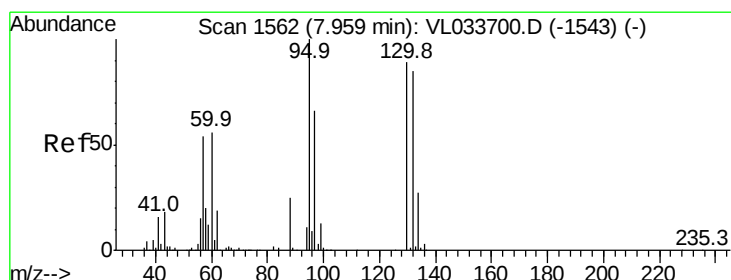
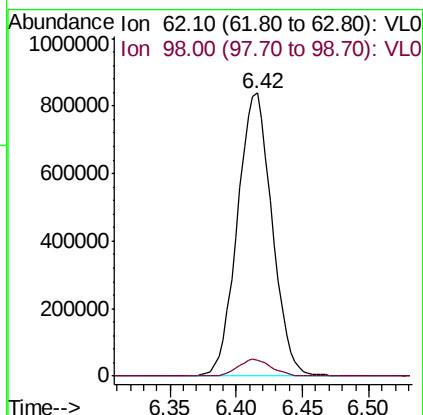
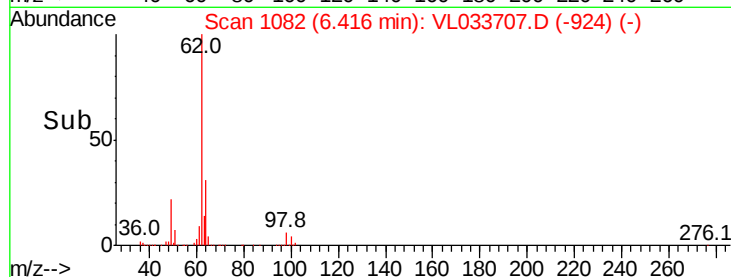
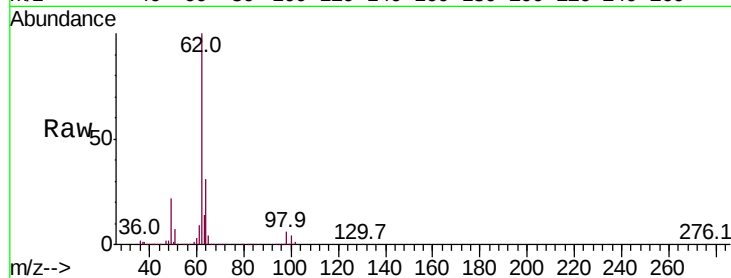
98 5.9 4.5 6.7

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#38

Trichloroethene

Concen: 10.208 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion:130 Resp: 1000628

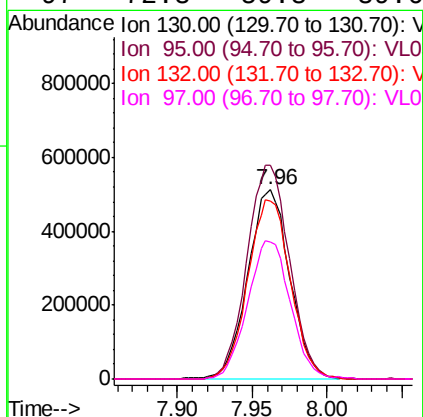
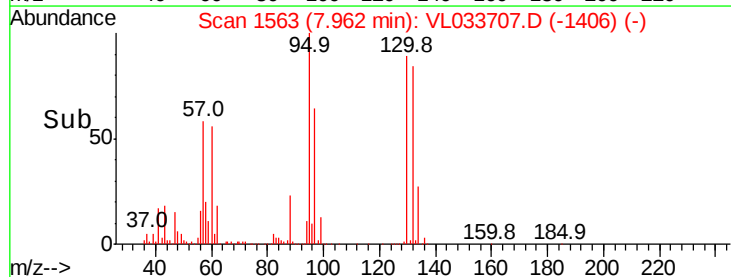
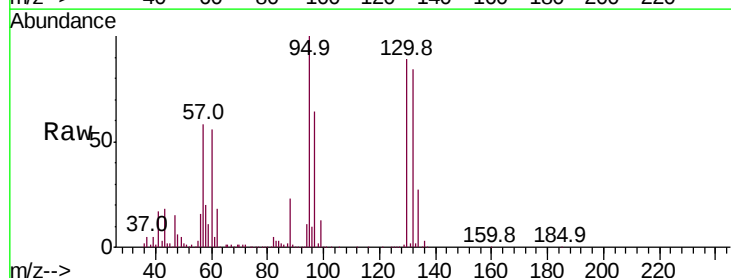
Ion Ratio Lower Upper

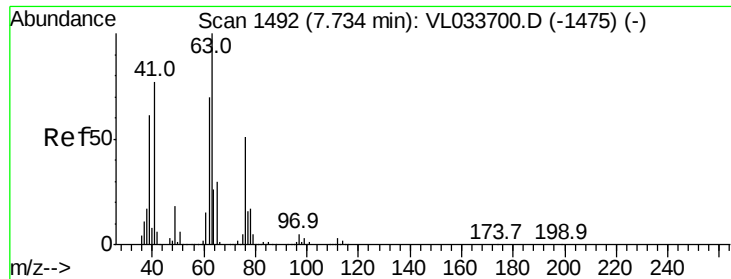
130 100

95 113.0 90.2 135.4

132 94.5 76.4 114.6

97 72.8 59.8 89.6





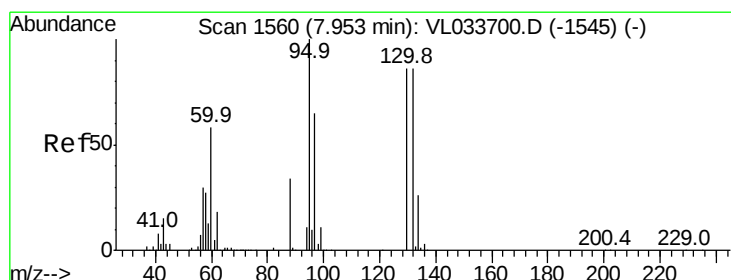
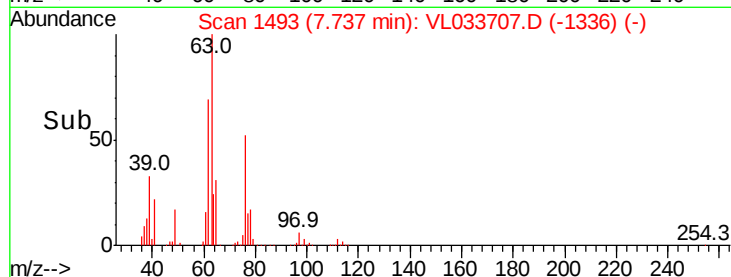
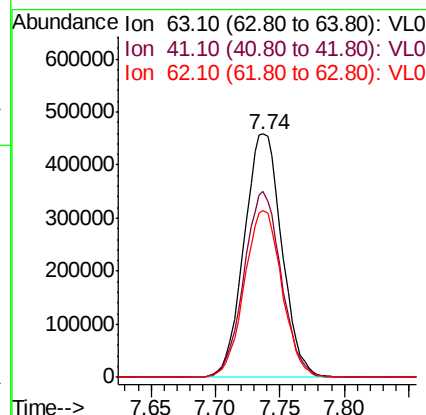
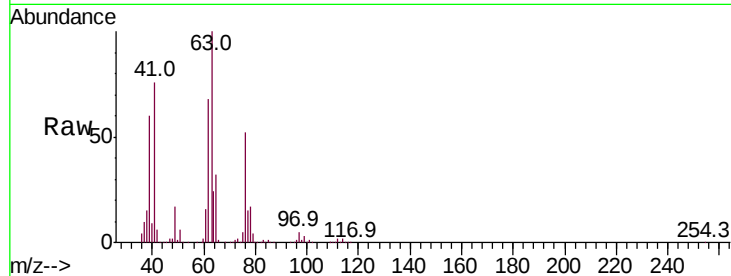
#39
 1,2-Dichloropropane
 Concen: 9.461 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.4	61.5	92.3
62	68.5	56.2	84.4

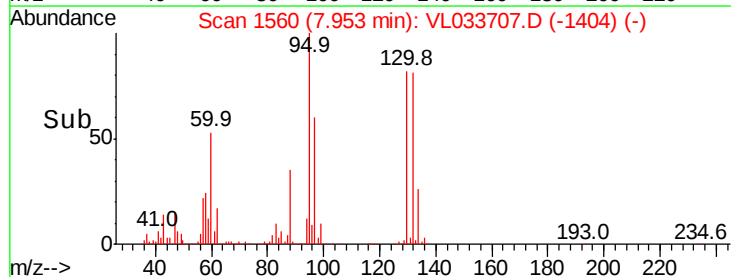
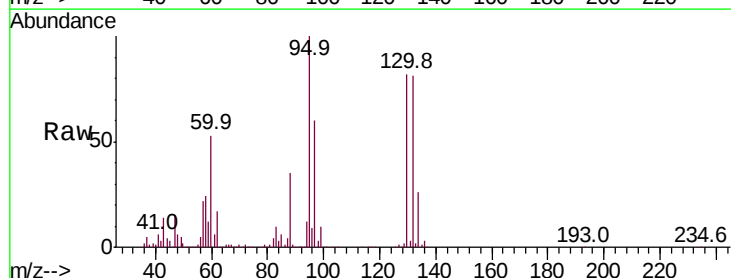
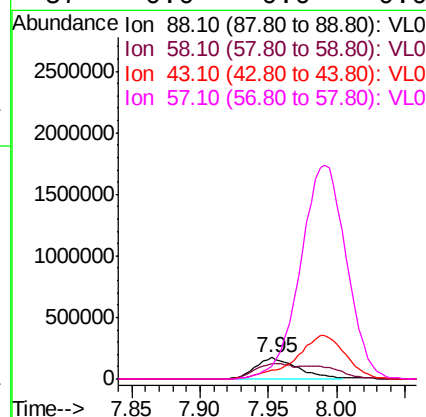
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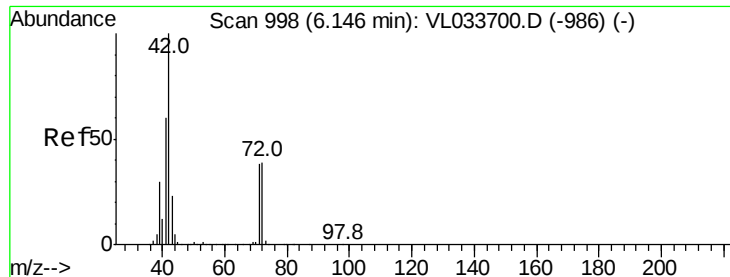
MMDadoda
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#40
 1,4-Dioxane
 Concen: 9.048 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.9	101.8	152.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





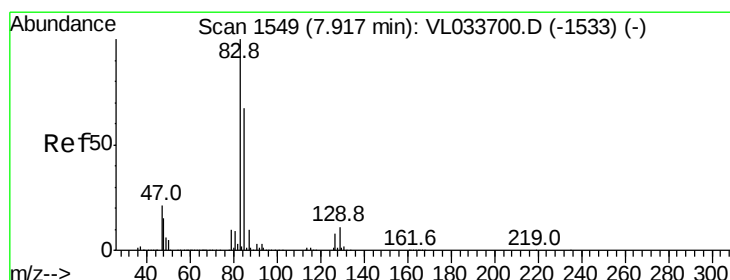
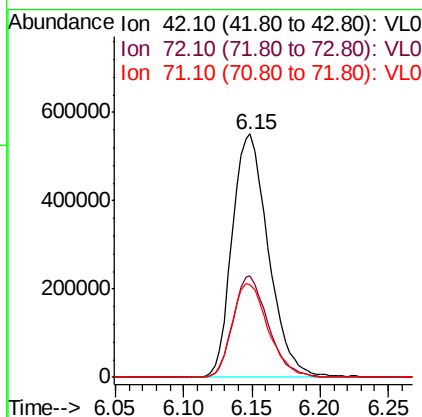
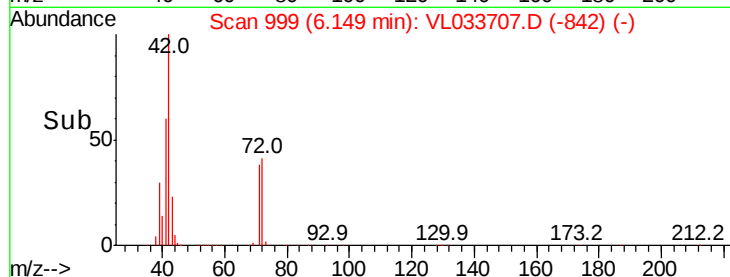
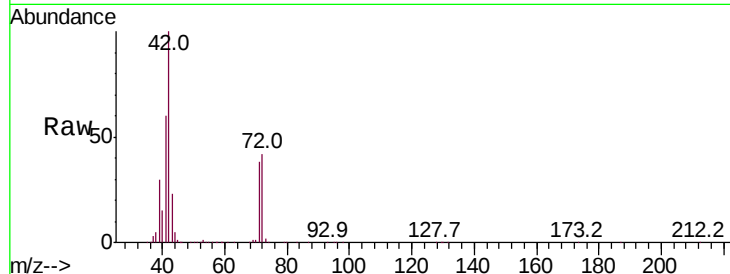
#41
Tetrahydrofuran
Concen: 10.081 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 42 Resp: 1016719
Ion Ratio Lower Upper
42 100
72 40.6 32.0 48.0
71 38.9 30.4 45.6

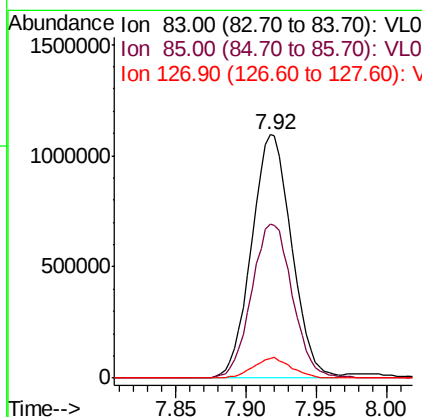
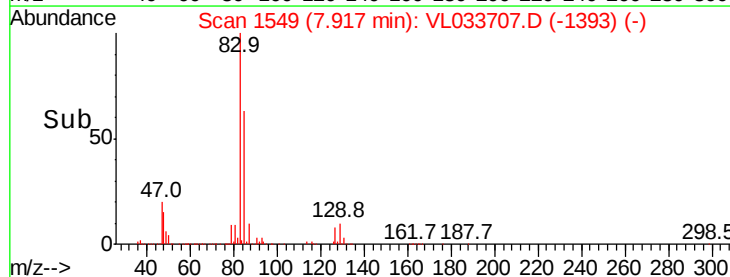
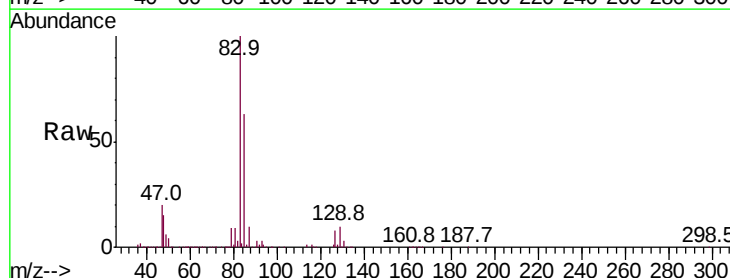
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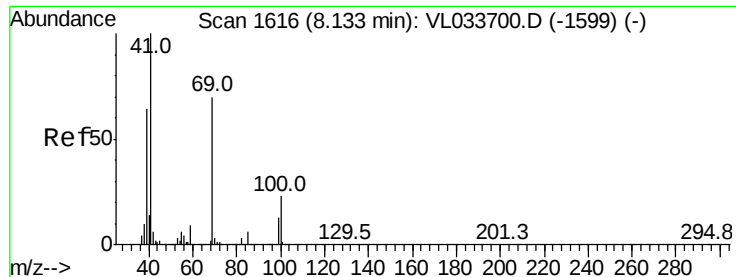
MMDadoda
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#42
Bromodichloromethane
Concen: 9.329 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 83 Resp: 2176219
Ion Ratio Lower Upper
83 100
85 63.2 53.3 79.9
127 8.1 6.5 9.7





#43

Methvl Methacrilate

Concen: 10.138 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

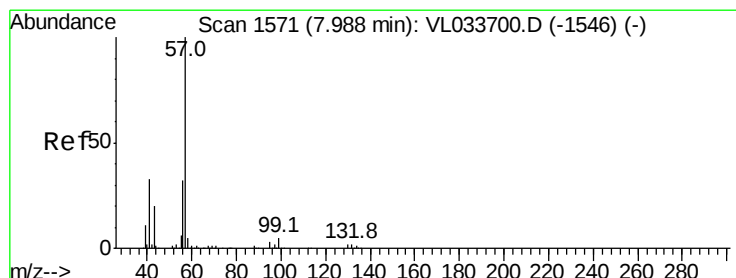
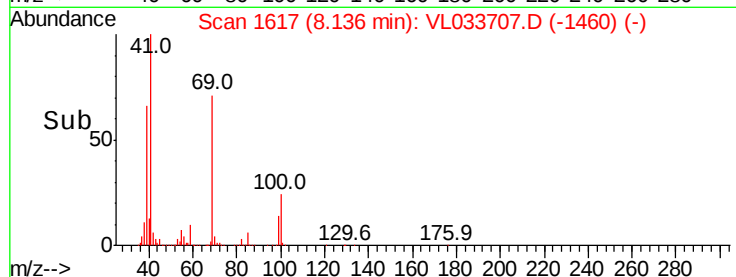
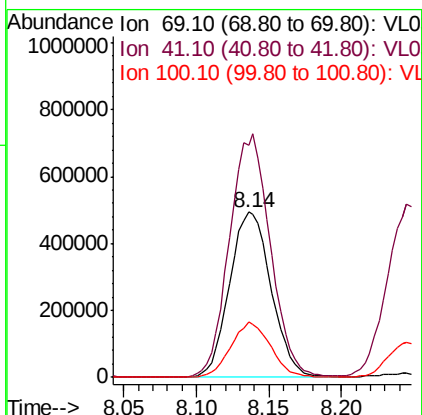
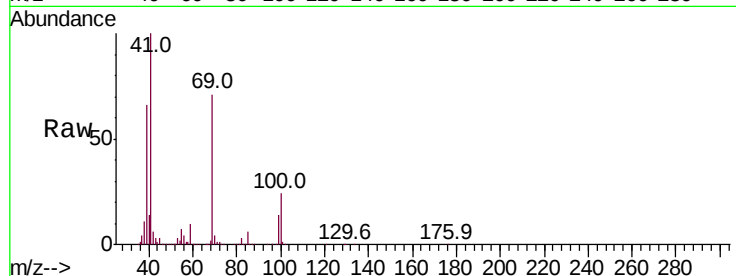
Instrument :
MSVOA_L

ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.5	116.3	174.5
100	31.9	25.3	37.9

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 9.167 ppbv

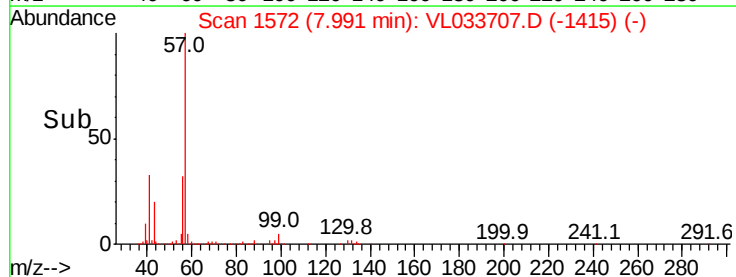
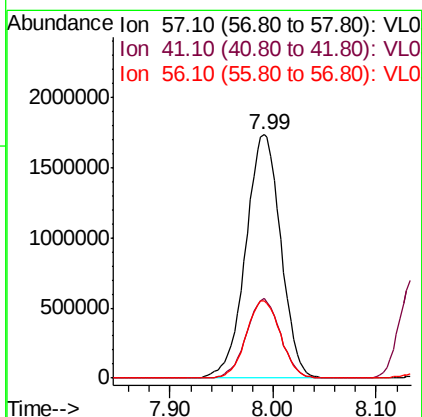
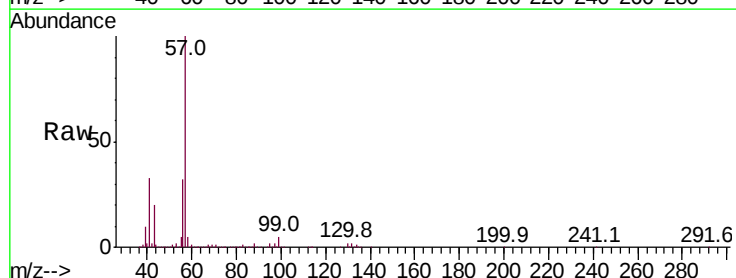
RT: 7.99 min Scan# 1572

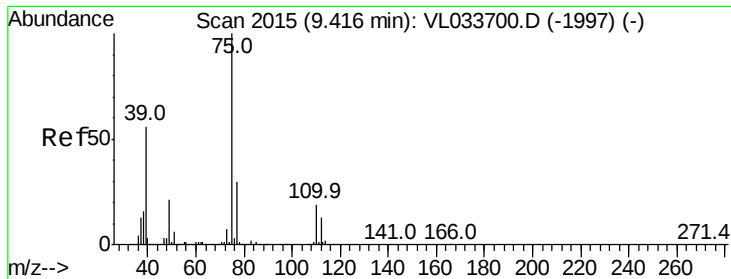
Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.6	25.4	38.0
56	31.1	24.7	37.1





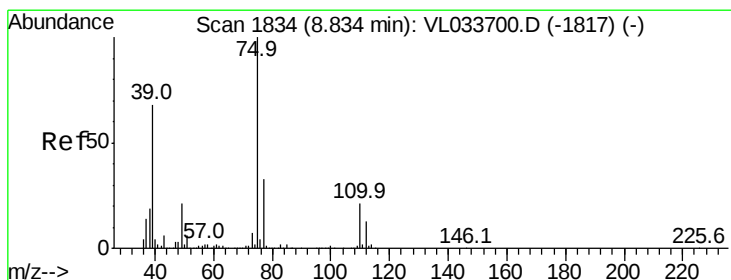
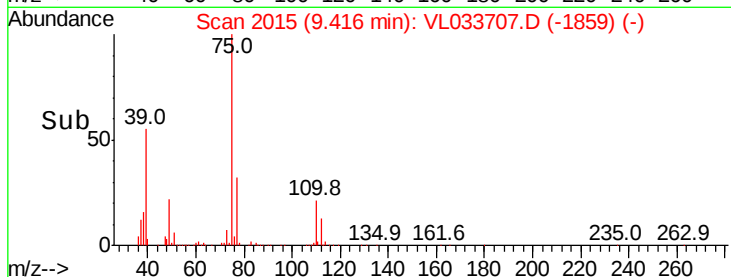
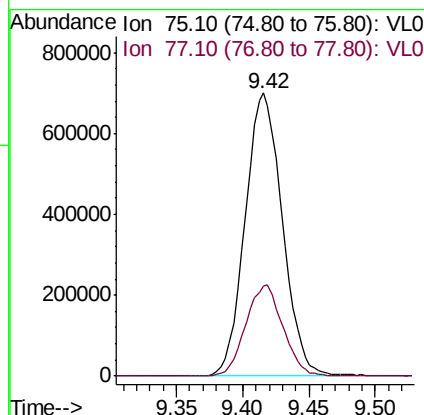
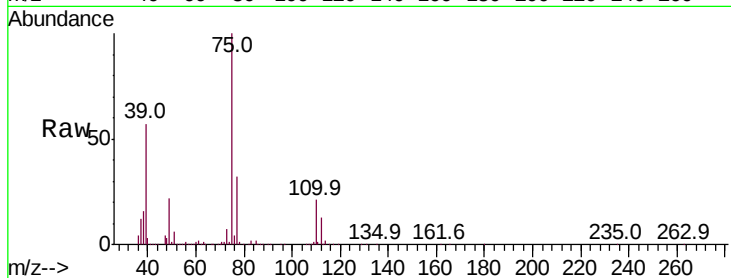
#45
t-1,3-Dichloropropene
Concen: 11.062 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 75 Resp: 1363324
Ion Ratio Lower Upper
75 100
77 32.0 24.4 36.6

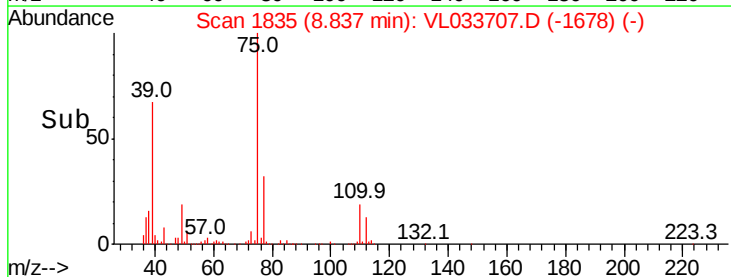
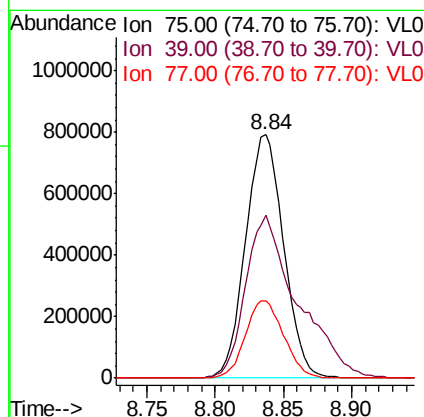
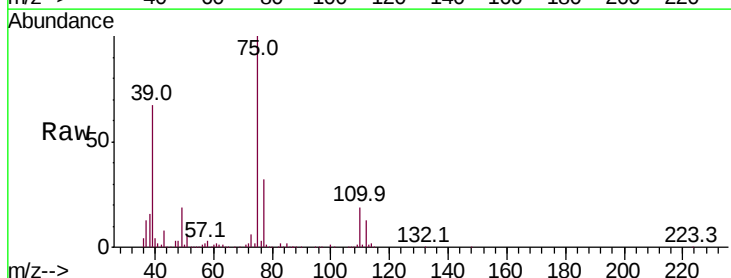
Manual Integrations
APPROVED

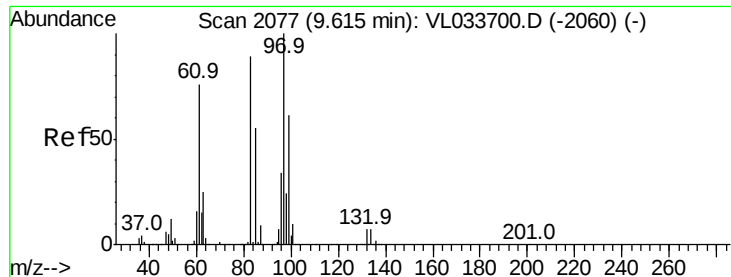
MMDadoda
5/20/2019 12:05:30 PM



#46
cis-1,3-Dichloropropene
Concen: 10.663 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 75 Resp: 1538846
Ion Ratio Lower Upper
75 100
39 66.9 54.4 81.6
77 32.0 26.6 39.8





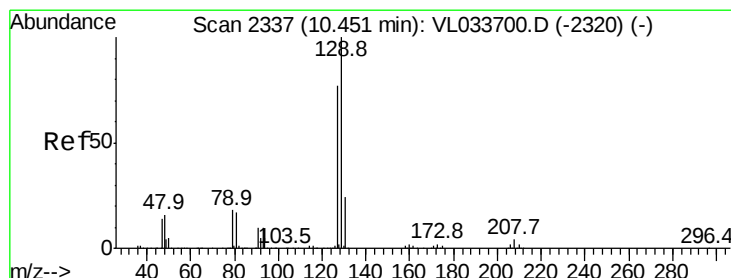
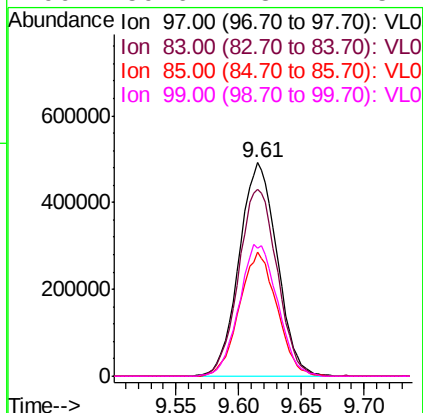
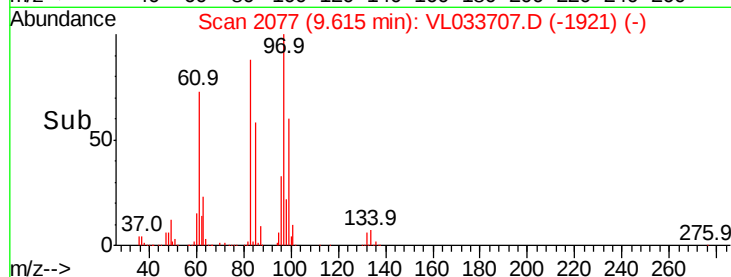
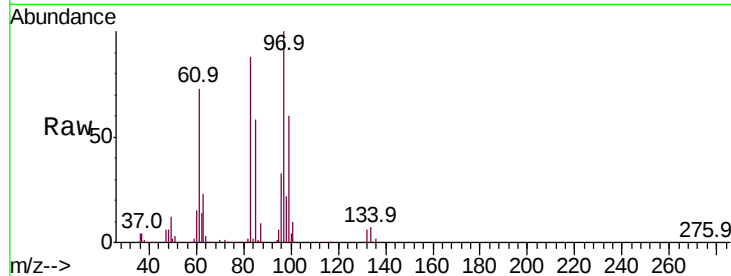
#47
 1,1,2-Trichloroethane
 Concen: 9.269 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.8	106.2
85	57.8	43.7	65.5
99	59.6	48.7	73.1

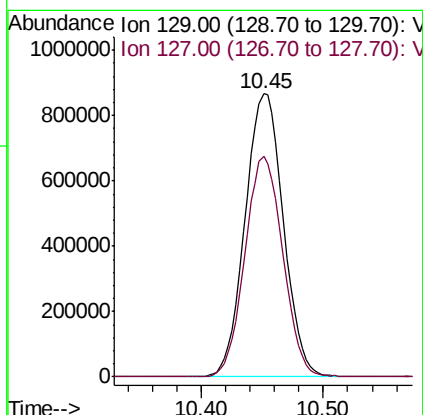
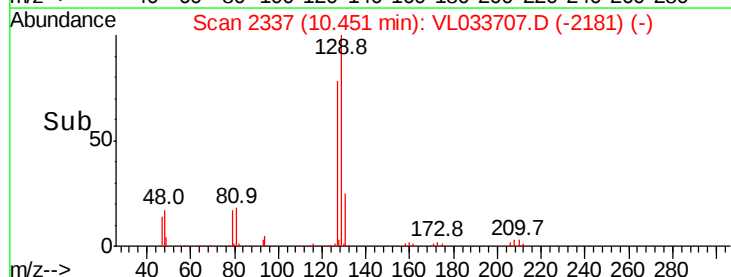
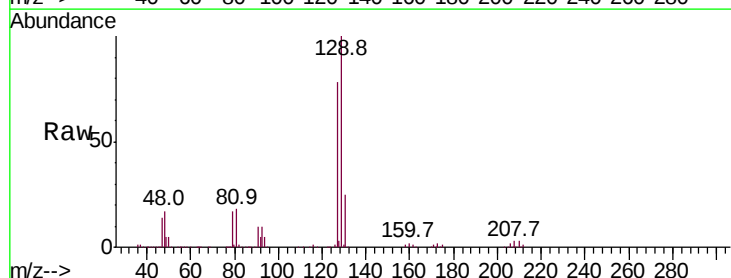
Manual Integrations
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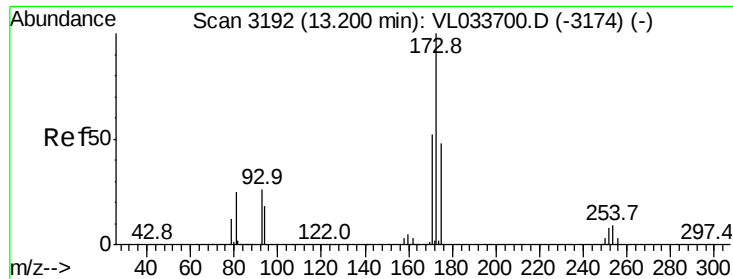
MMDadoda
 5/20/2019 12:05:30 PM



#48
 Dibromochloromethane
 Concen: 9.680 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.6	116.0





#49

Bromoform

Concen: 9.957 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:173 Resp: 1624102

Ion Ratio Lower Upper

173 100

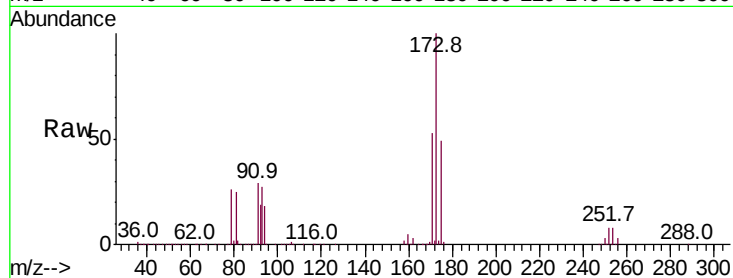
175 49.0 38.6 58.0

171 51.7 41.5 62.3

Manual Integrations
APPROVED

MMDadoda

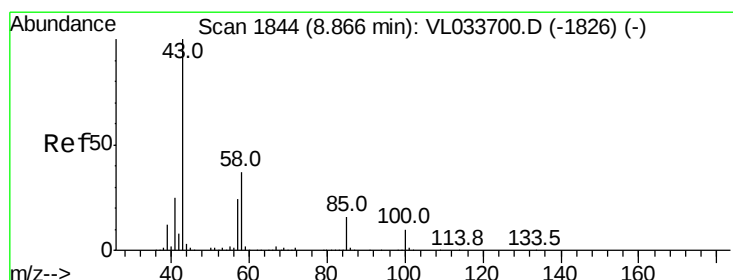
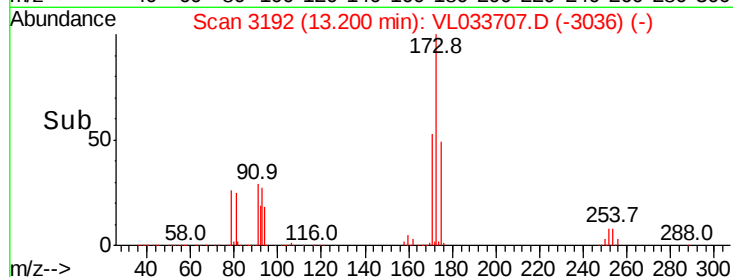
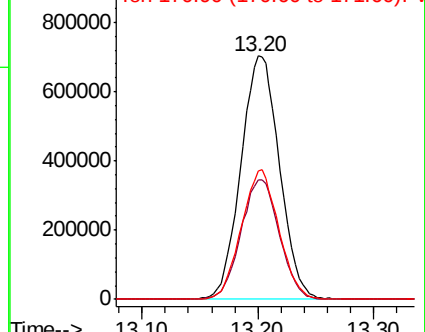
5/20/2019 12:05:30 PM



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: 9.460 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033707.D

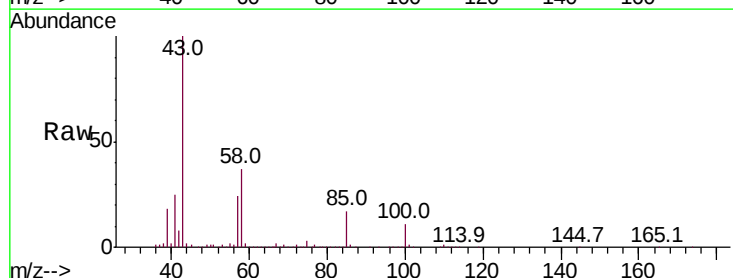
Acq: 17 May 2019 7:10

Tgt Ion: 43 Resp: 2619085

Ion Ratio Lower Upper

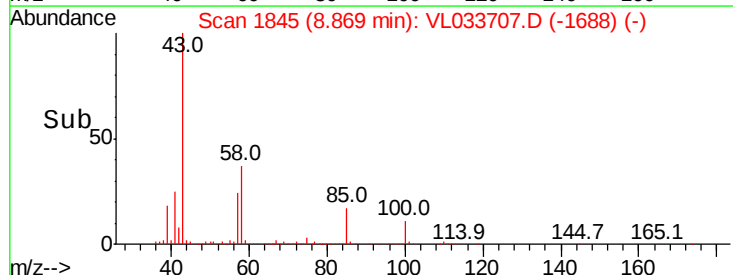
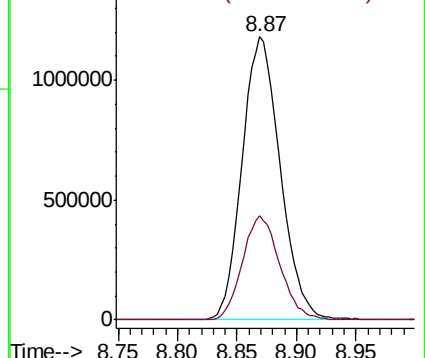
43 100

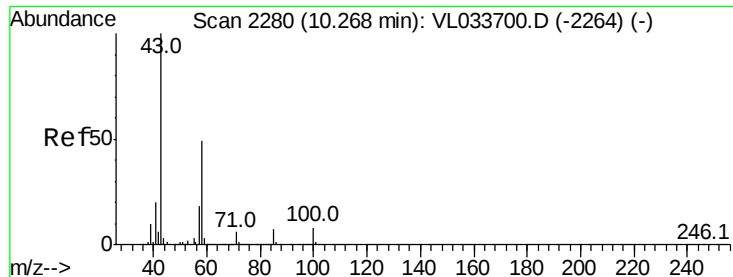
58 36.1 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





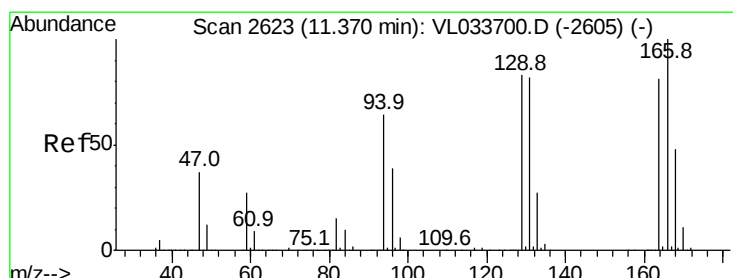
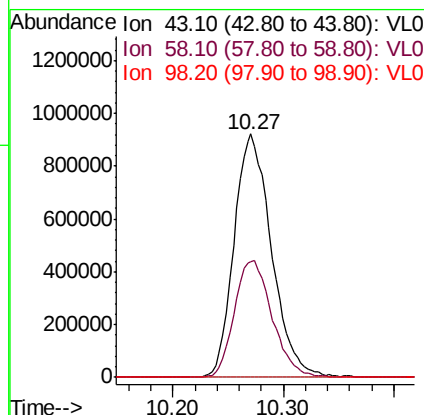
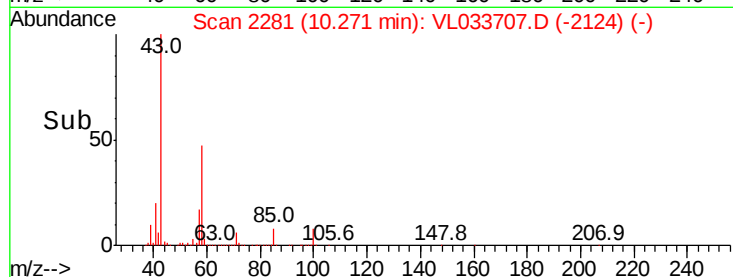
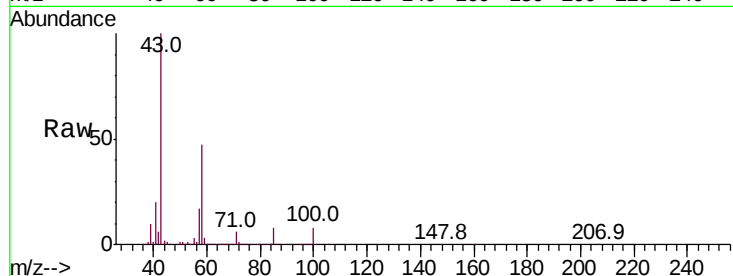
#51
2-Hexanone
Concen: 10.045 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 43 Resp: 2170615
Ion Ratio Lower Upper
43 100
58 48.6 38.7 58.1
98 0.3 0.2 0.4

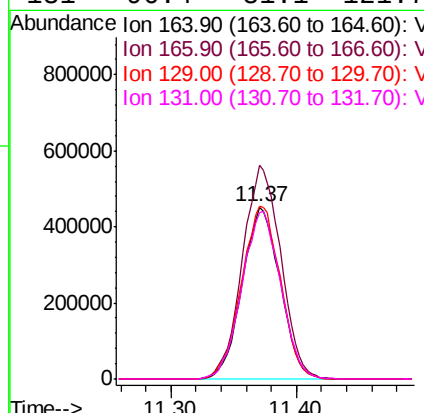
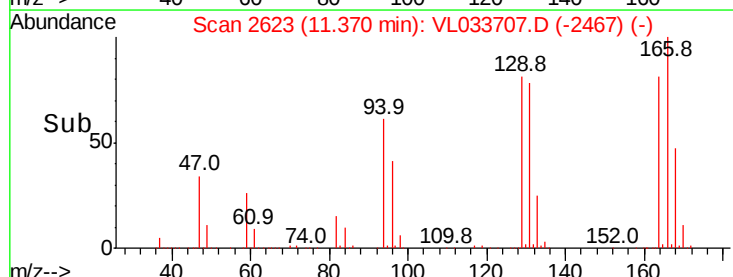
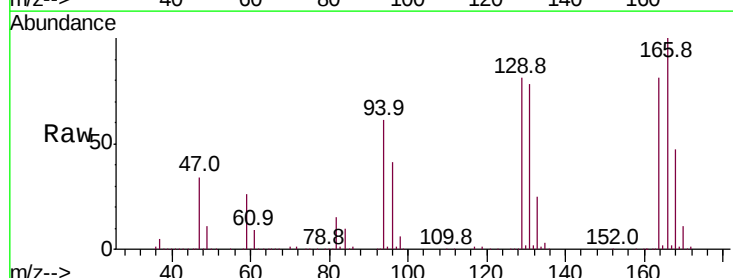
Manual Integrations
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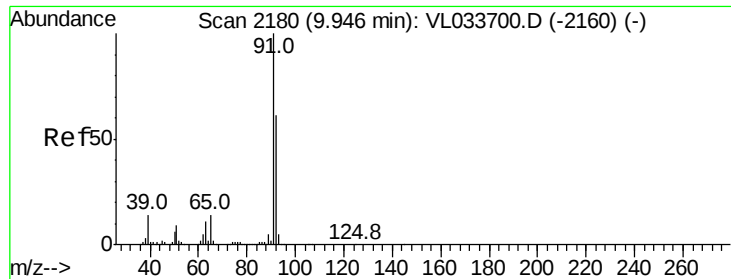
MMDadoda
5/20/2019 12:05:30 PM



#52
Tetrachloroethene
Concen: 10.215 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 164 Resp: 948551
Ion Ratio Lower Upper
164 100
166 124.0 98.9 148.3
129 100.2 81.8 122.6
131 96.4 81.1 121.7





#53

Toluene

Concen: 10.236 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 91 Resp: 2916587

Ion Ratio Lower Upper

91 100

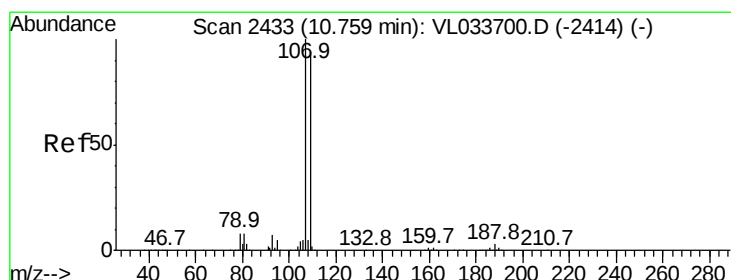
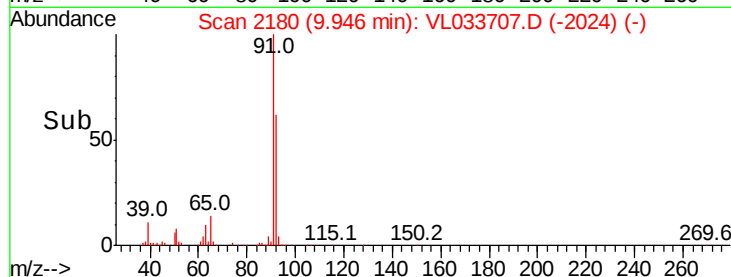
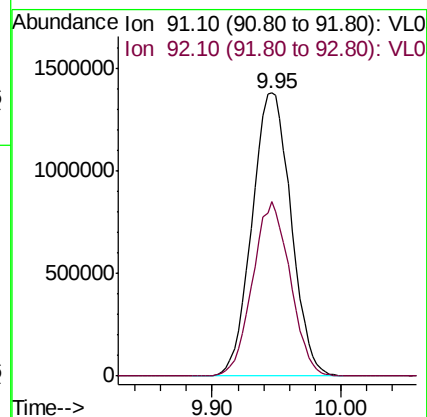
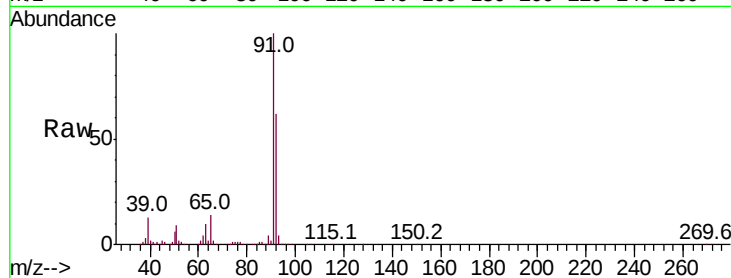
92 59.3 47.6 71.4

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.513 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033707.D

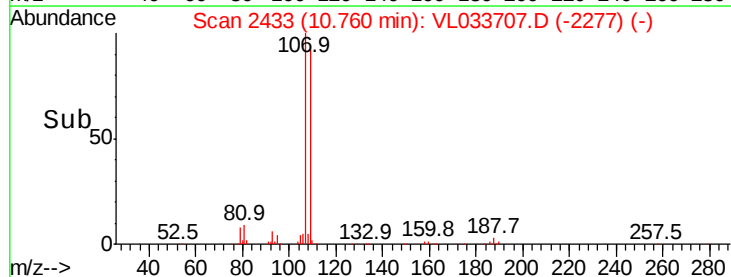
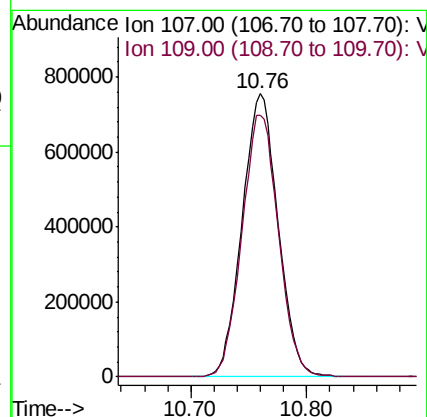
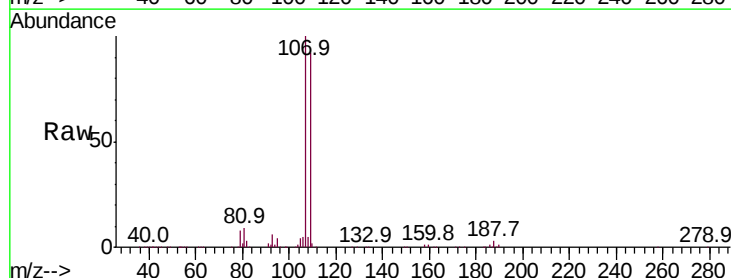
Acq: 17 May 2019 7:10

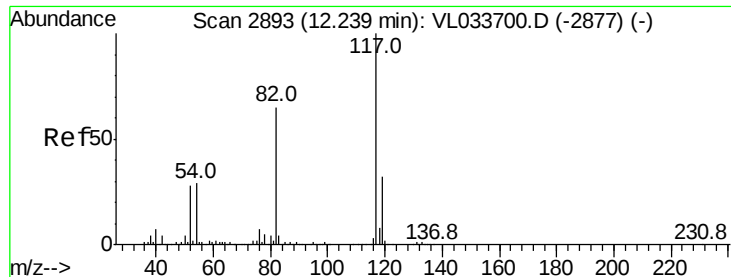
Tgt Ion:107 Resp: 1624318

Ion Ratio Lower Upper

107 100

109 92.3 75.2 112.8





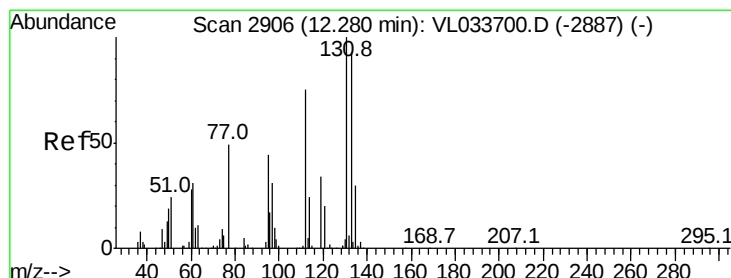
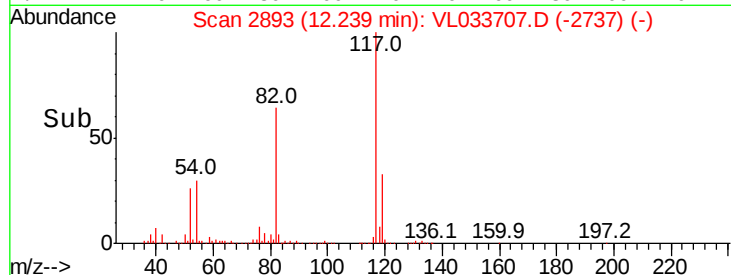
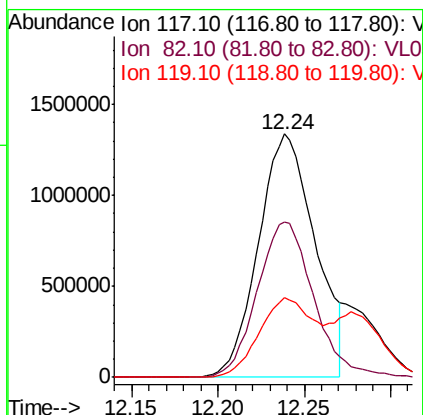
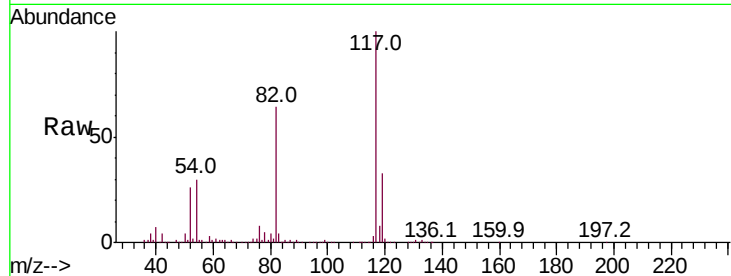
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion:117 Resp: 3068776
Ion Ratio Lower Upper
117 100
82 63.5 49.4 74.0
119 31.4 24.9 37.3

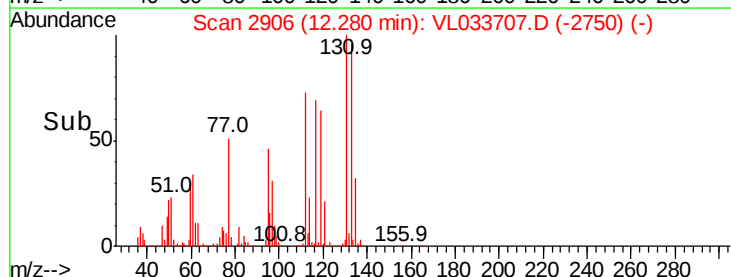
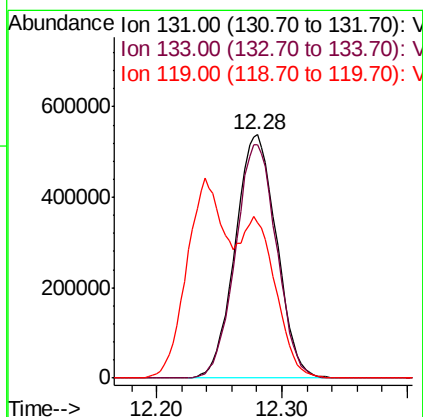
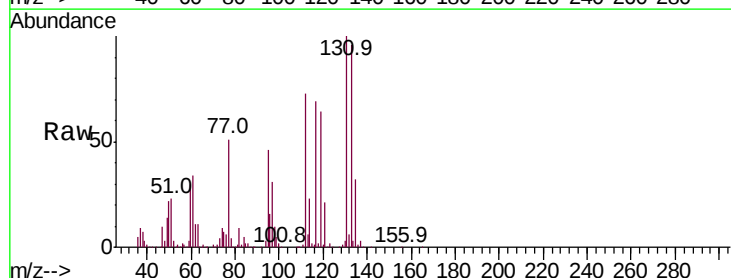
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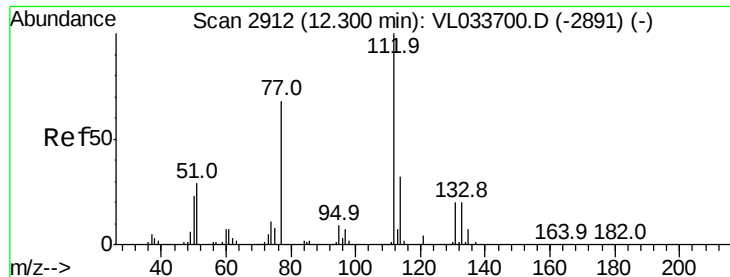
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.645 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion:131 Resp: 1227596
Ion Ratio Lower Upper
131 100
133 95.6 76.6 114.8
119 53.9 49.0 73.4





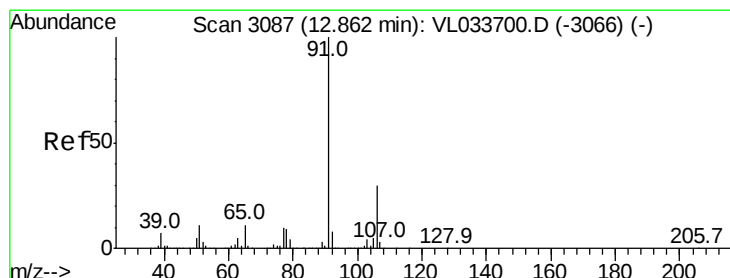
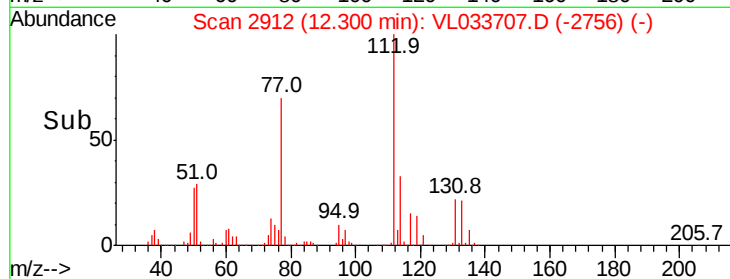
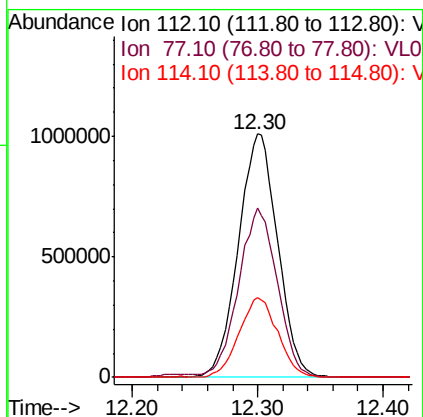
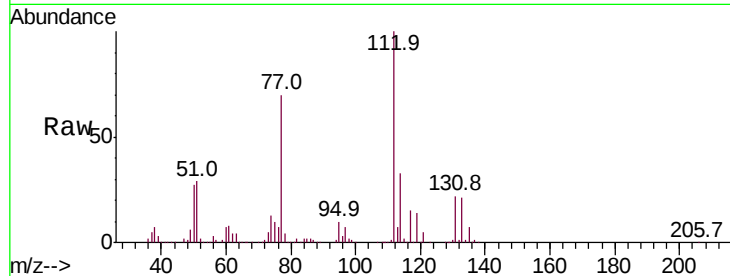
#57
Chlorobenzene
Concen: 8.676 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.4	83.0
114	32.8	29.3	35.8

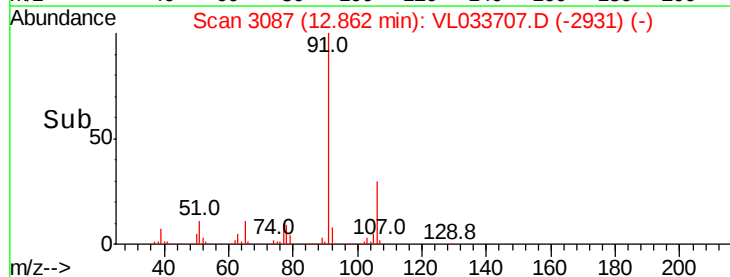
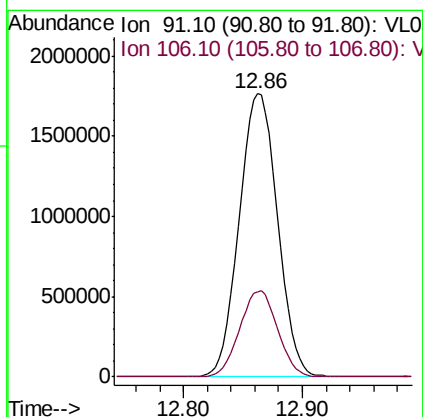
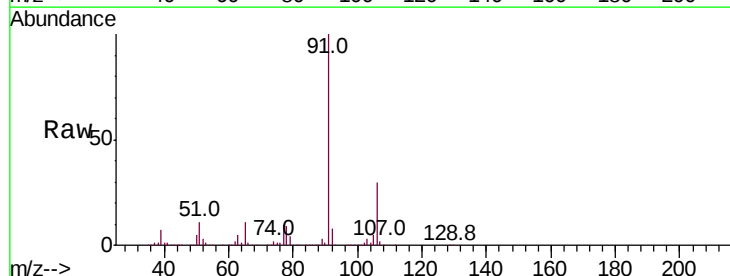
Manual Integrations
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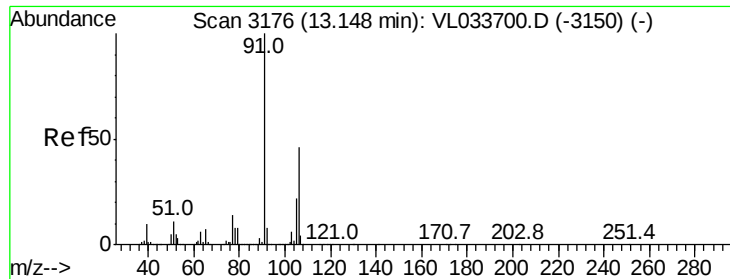
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#58
Ethyl Benzene
Concen: 9.690 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9





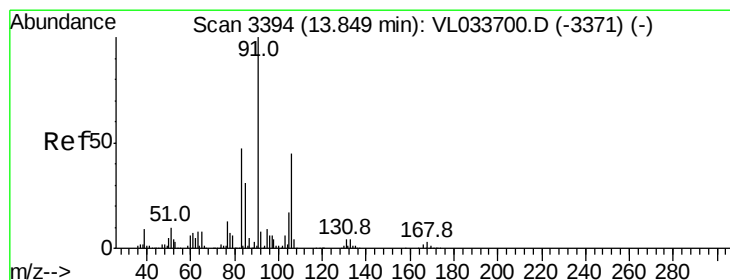
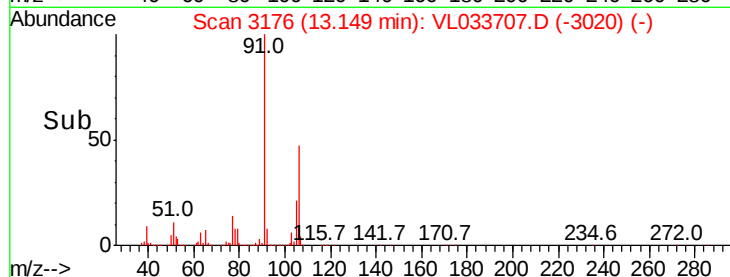
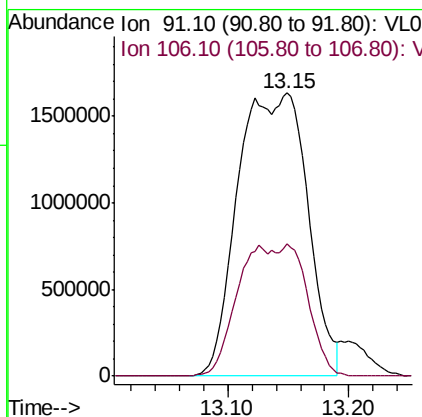
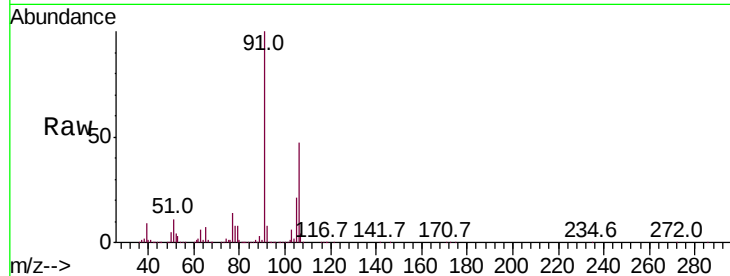
#59
m/p-Xylene
Concen: 18.306 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 91 Resp: 6503177
Ion Ratio Lower Upper
91 100
106 45.7 35.8 53.6

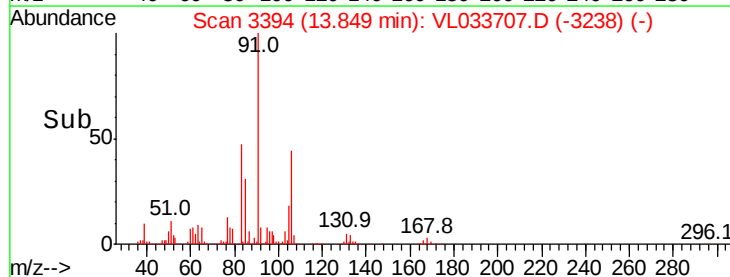
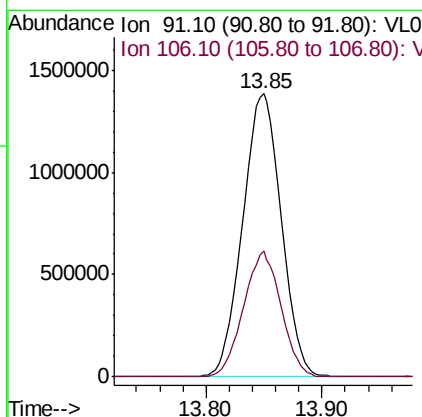
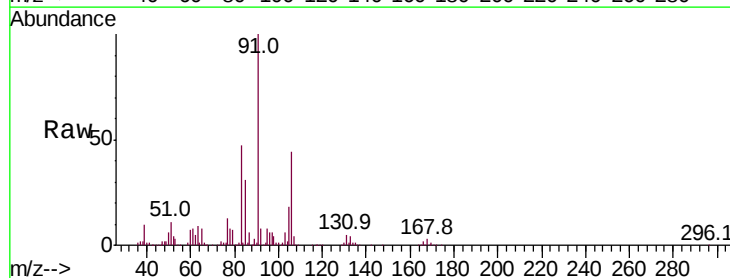
Manual Integrations
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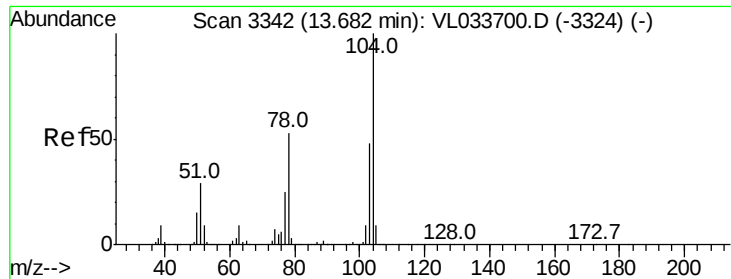
MMDadoda
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#60
o-Xylene
Concen: 8.937 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 91 Resp: 3200292
Ion Ratio Lower Upper
91 100
106 43.2 21.6 64.8





#61

Stvrene

Concen: 10.237 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:104 Resp: 2468093

Ion Ratio Lower Upper

104 100

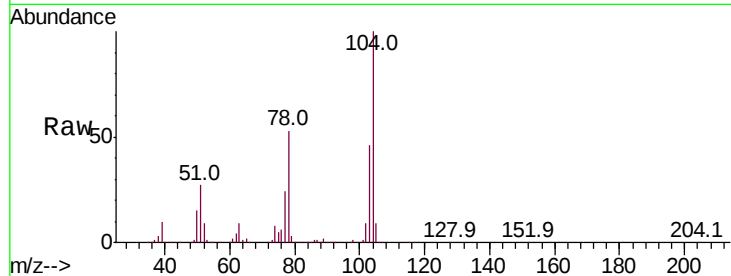
78 52.5 42.6 64.0

103 46.7 37.8 56.6

Manual Integrations
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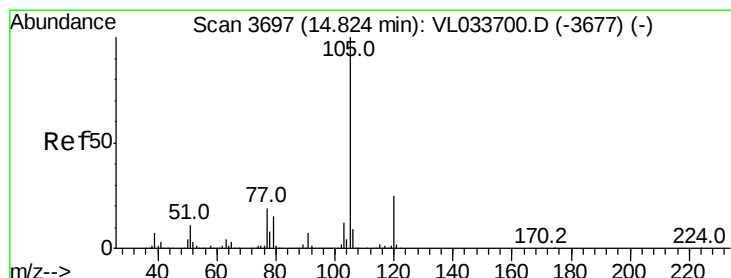
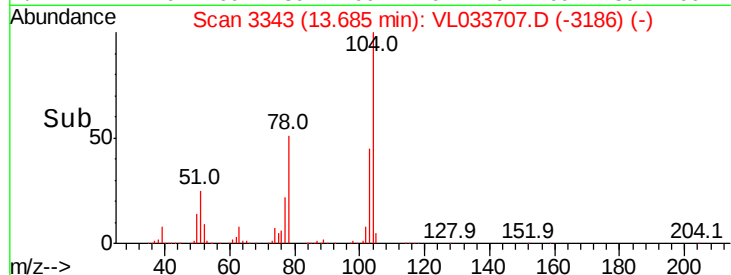
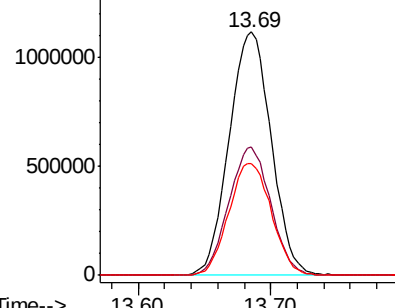
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Abundance Ion 104.10 (103.80 to 104.80): V

1500000 Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.950 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033707.D

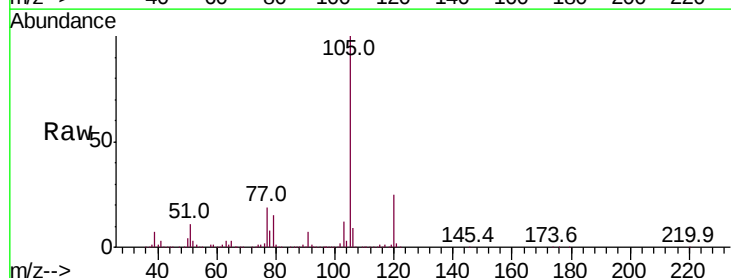
Acq: 17 May 2019 7:10

Tgt Ion:105 Resp: 4316437

Ion Ratio Lower Upper

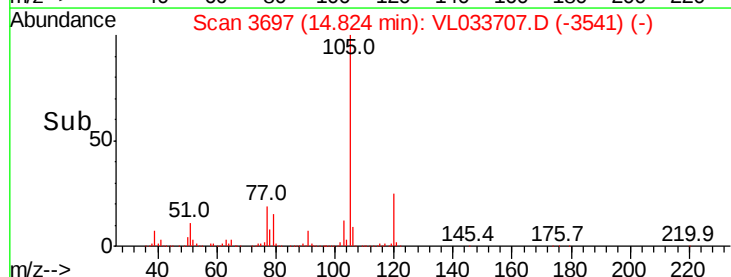
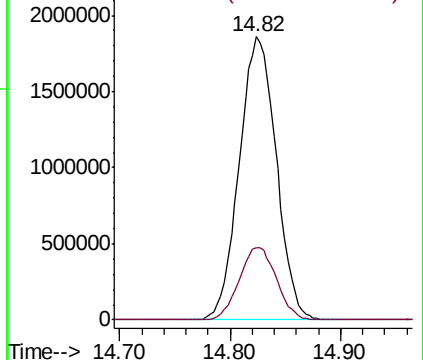
105 100

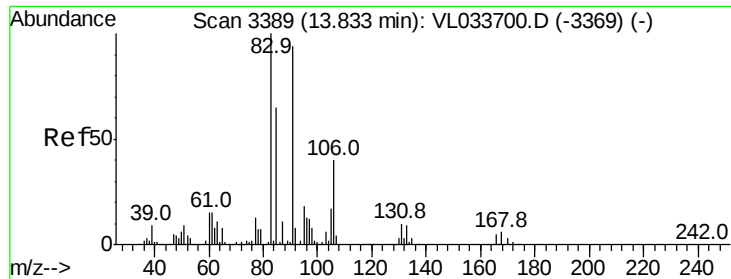
120 25.6 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.306 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 83 Resp: 2163017

Ion Ratio Lower Upper

83 100

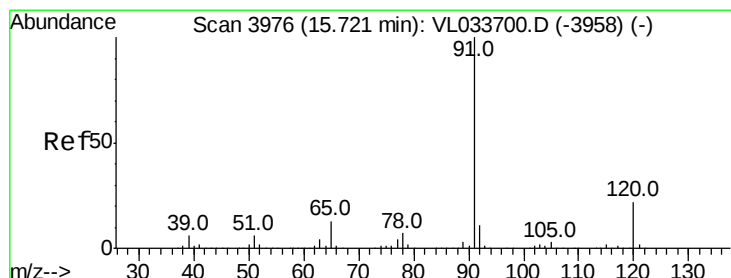
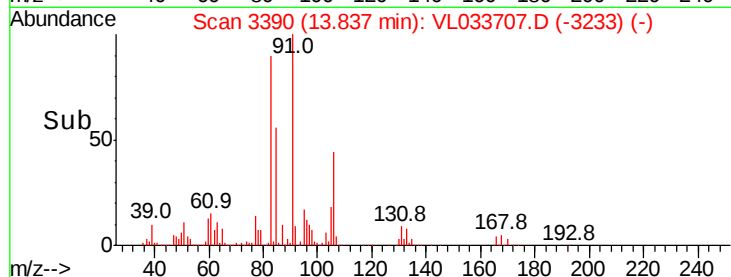
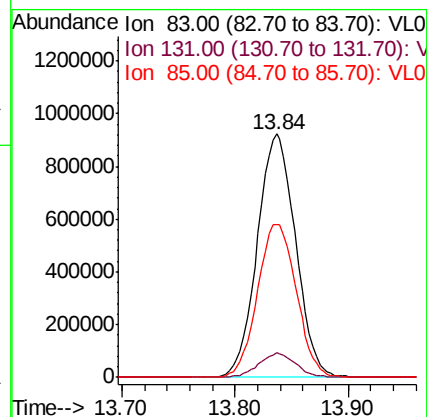
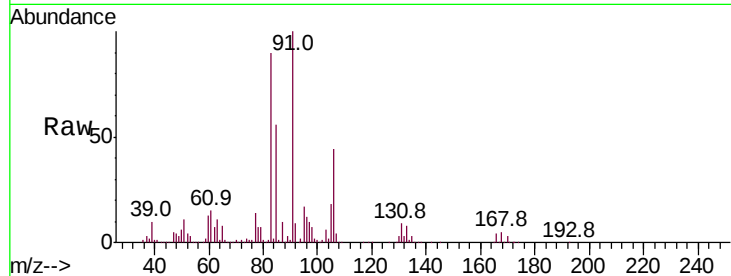
131 9.7 4.8 14.3

85 64.3 32.3 96.9

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#64

n-propylbenzene

Concen: 8.954 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL033707.D

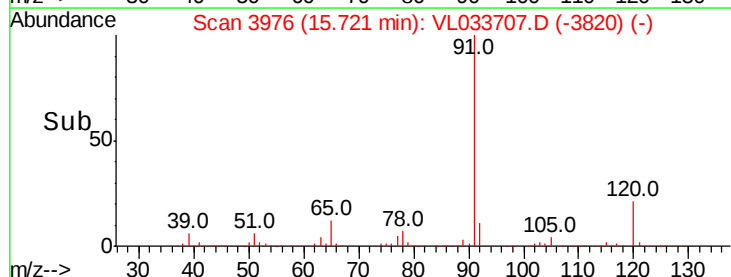
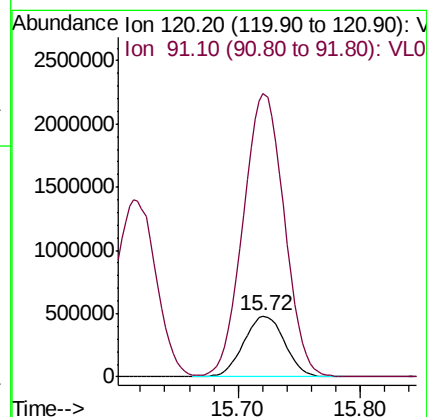
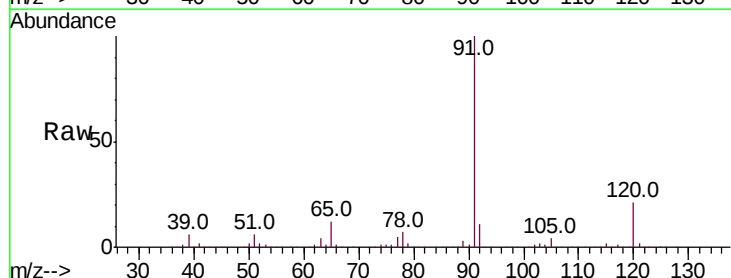
Acq: 17 May 2019 7:10

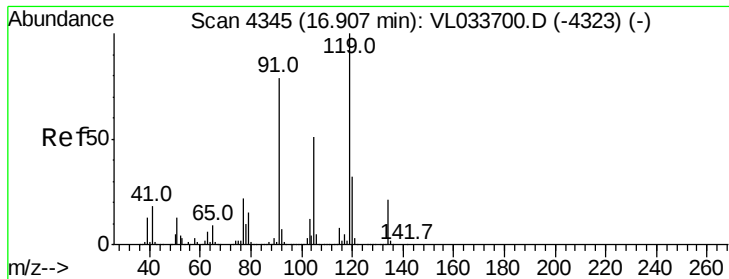
Tgt Ion:120 Resp: 1116978

Ion Ratio Lower Upper

120 100

91 468.1 379.1 568.7





#65

tert-Butylbenzene

Concen: 8.791 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

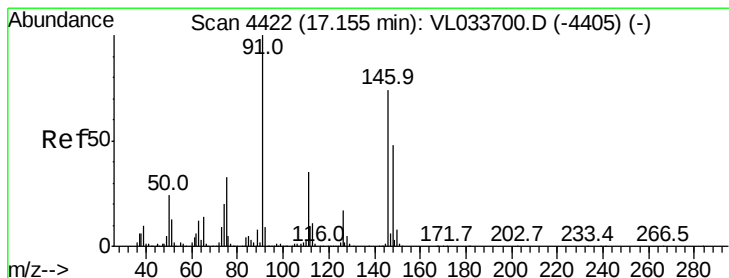
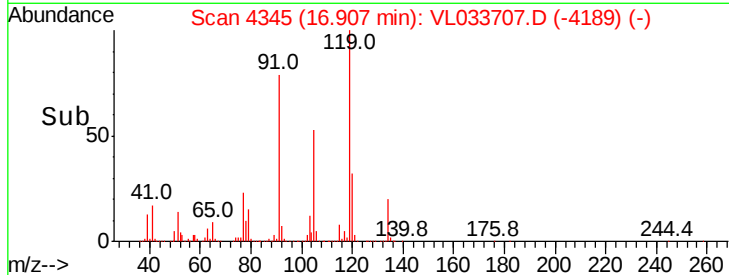
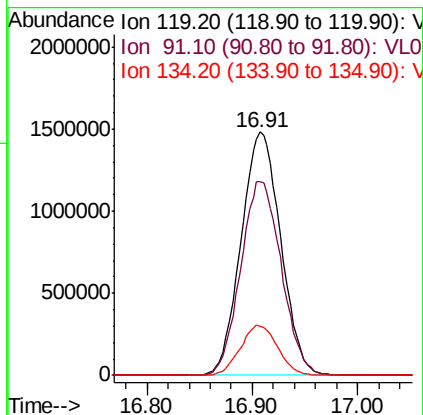
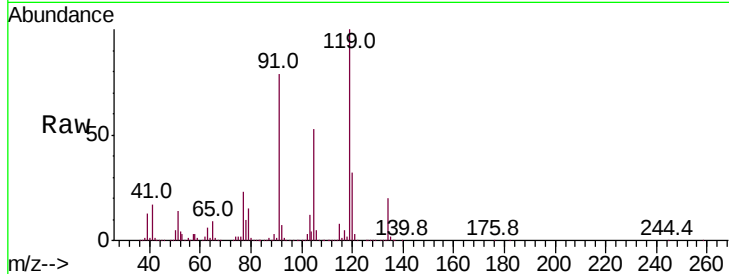
ClientSampleId :

ICVVL051719

Tot Ion:	119	Resp:	3870591
Ion	Ratio	Lower	Upper
119	100		
91	81.9	65.3	97.9
134	19.4	15.7	23.5

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#66

Benzyl Chloride

Concen: 10.321 ppbv

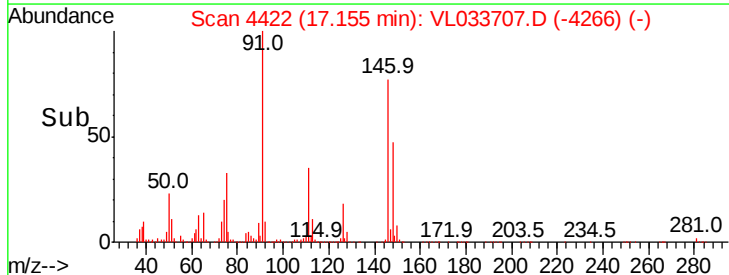
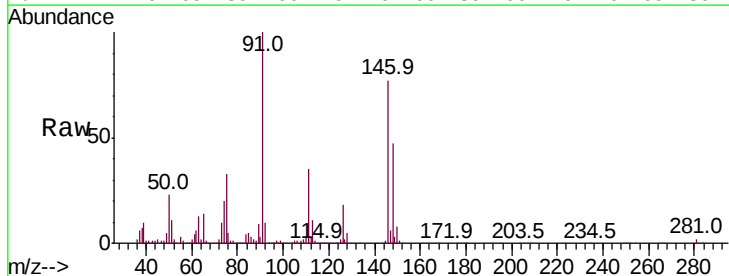
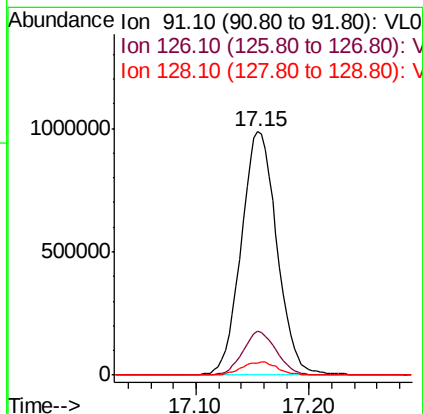
RT: 17.15 min Scan# 4422

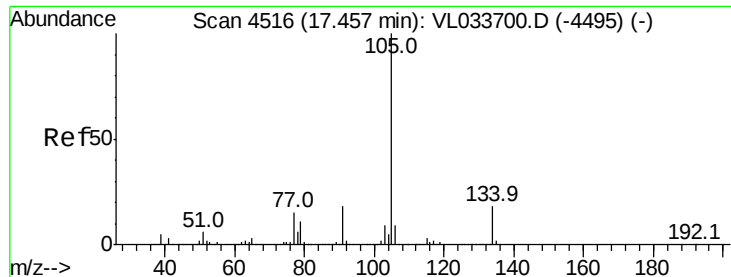
Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion:	91	Resp:	2164476
Ion	Ratio	Lower	Upper
91	100		
126	17.1	13.5	20.3
128	5.4	4.3	6.5





#67

sec-Butylbenzene

Concen: 8.753 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:105 Resp: 5394125

Ion Ratio Lower Upper

105 100

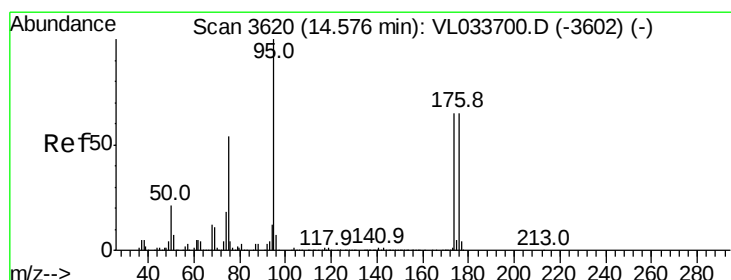
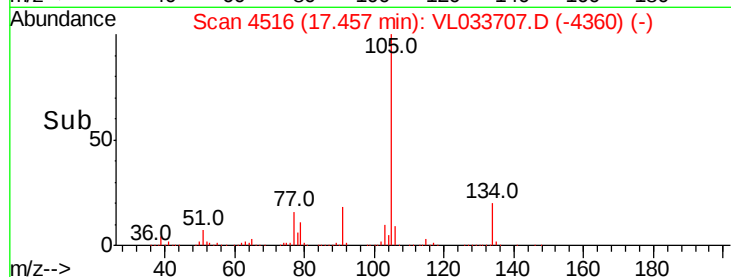
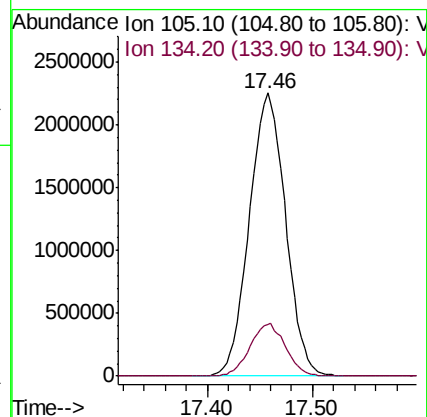
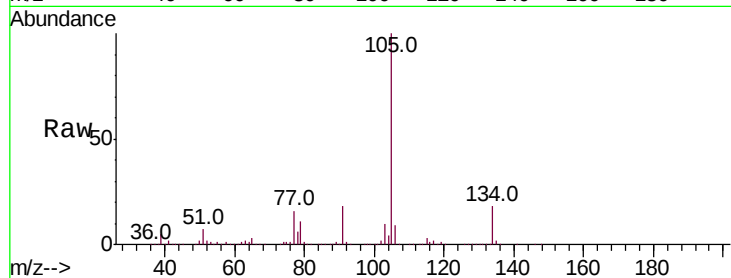
134 18.2 14.6 22.0

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.589 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

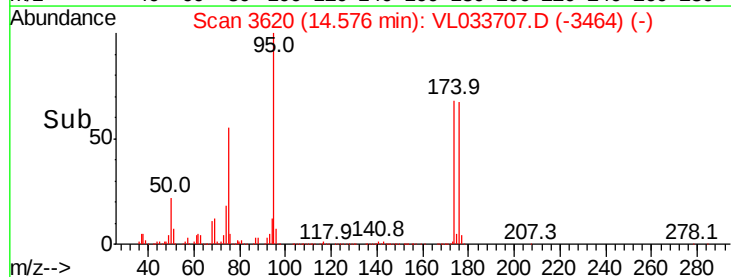
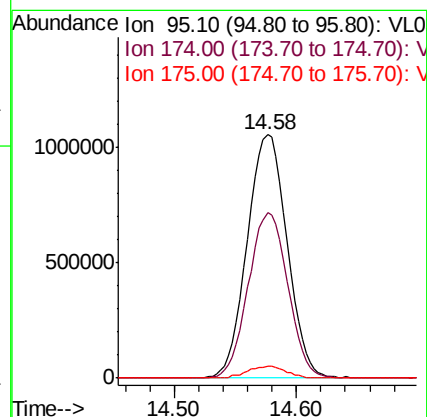
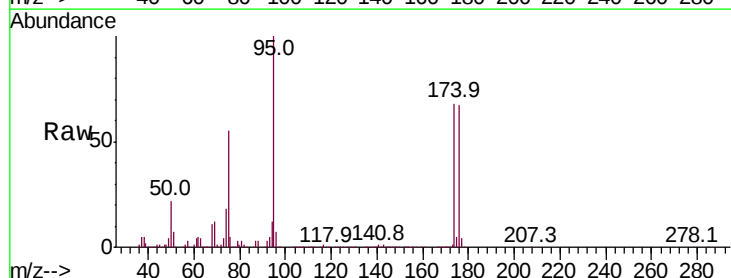
Tgt Ion: 95 Resp: 2385561

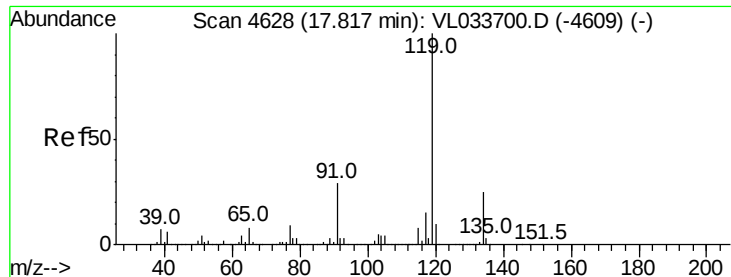
Ion Ratio Lower Upper

95 100

174 67.6 53.9 80.9

175 4.8 3.8 5.8





#69

p-Isopropyltoluene

Concen: 8.907 ppbv

RT: 17.81 min Scan# 4627

Delta R.T. -0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion: 119 Resp: 4536895

Ion Ratio Lower Upper

119 100

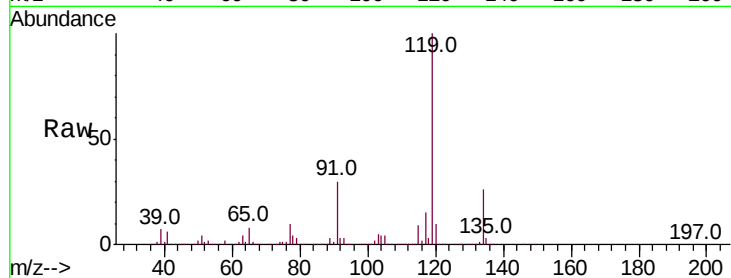
134 25.2 20.3 30.5

91 29.2 23.1 34.7

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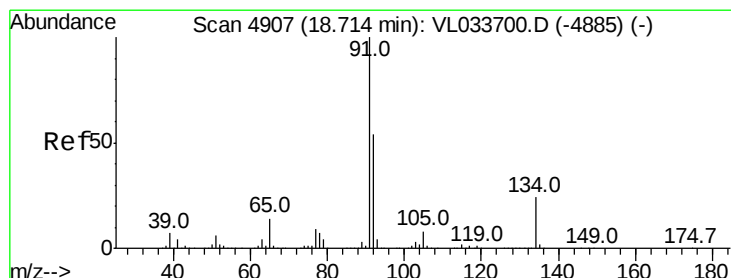
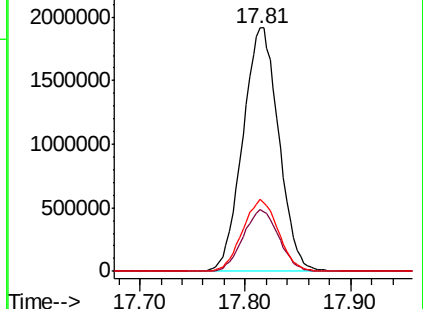
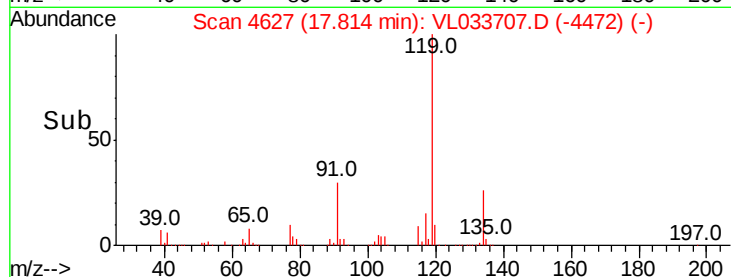
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.629 ppbv

RT: 18.71 min Scan# 4907

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

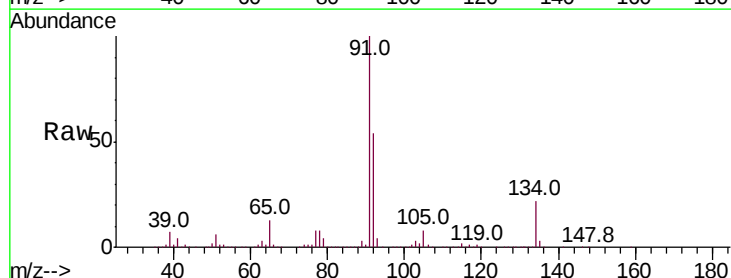
Tgt Ion: 91 Resp: 4713546

Ion Ratio Lower Upper

91 100

92 53.4 42.6 63.8

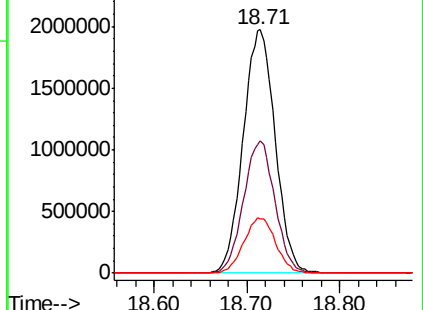
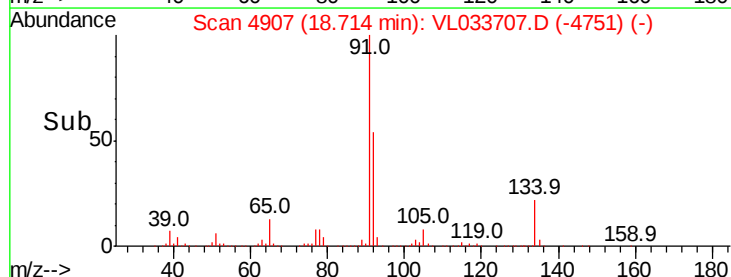
134 22.6 18.1 27.1

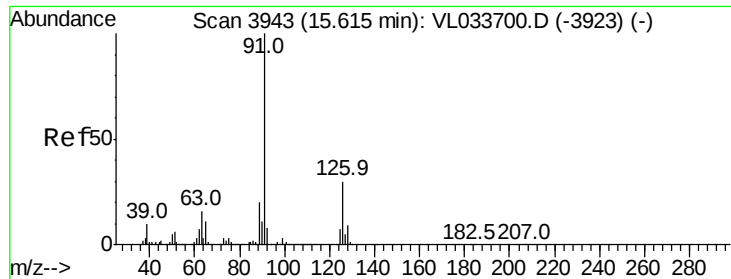


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





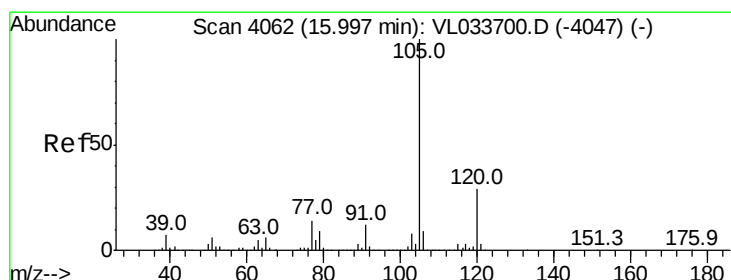
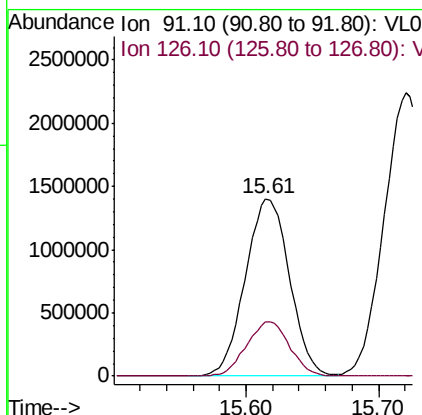
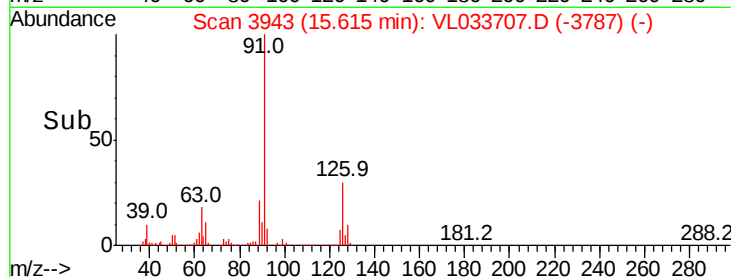
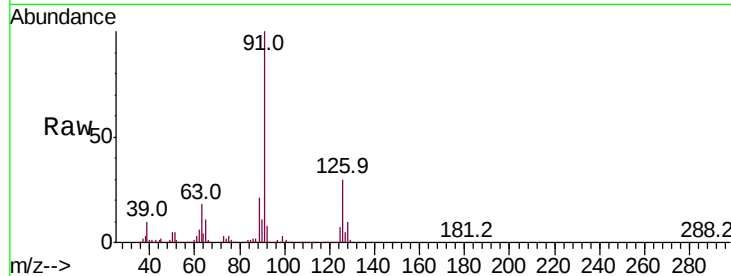
#71
2-Chlorotoluene
Concen: 9.105 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion: 91 Resp: 3257588
Ion Ratio Lower Upper
91 100
126 29.9 12.0 47.8

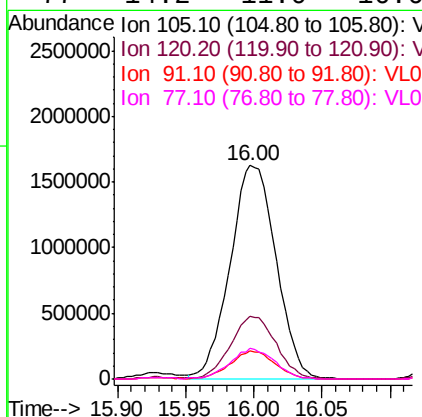
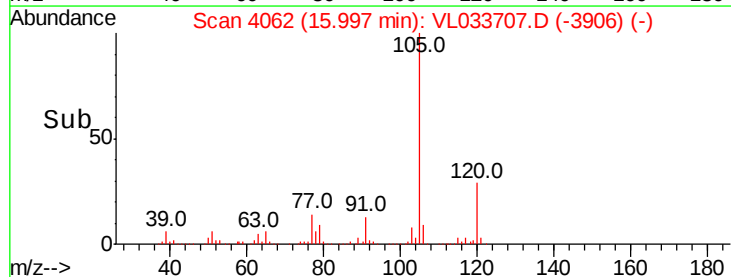
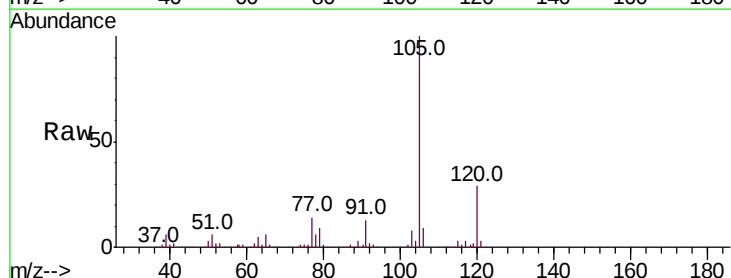
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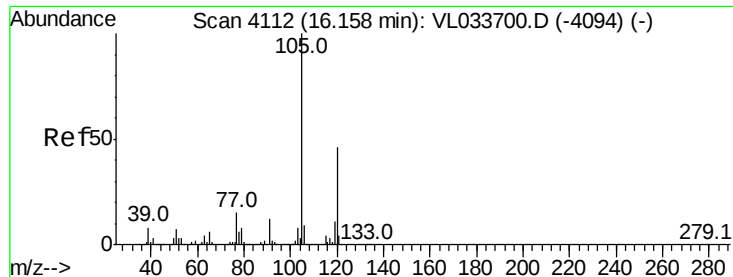
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#72
4-Ethyltoluene
Concen: 9.276 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion: 105 Resp: 3798033
Ion Ratio Lower Upper
105 100
120 29.0 23.1 34.7
91 12.8 10.4 15.6
77 14.2 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 8.934 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:105 Resp: 3569075

Ion Ratio Lower Upper

105 100

120 44.7

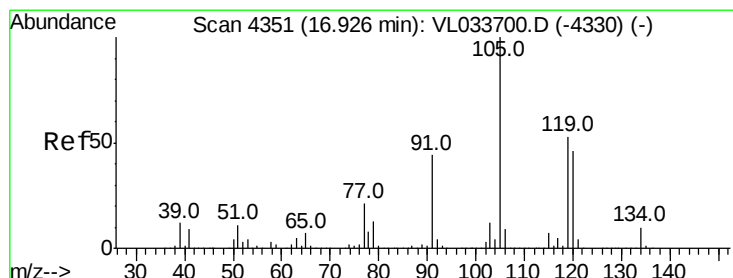
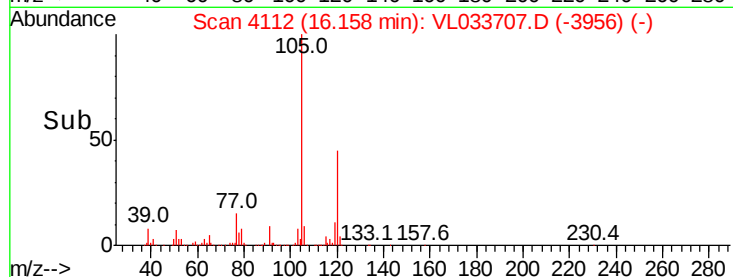
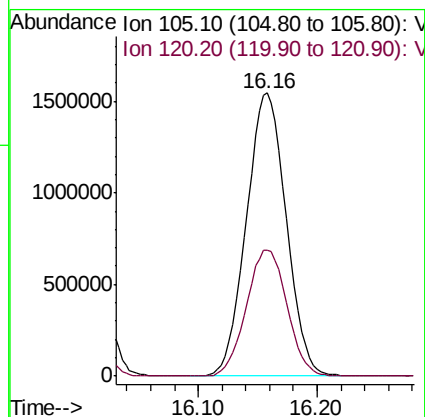
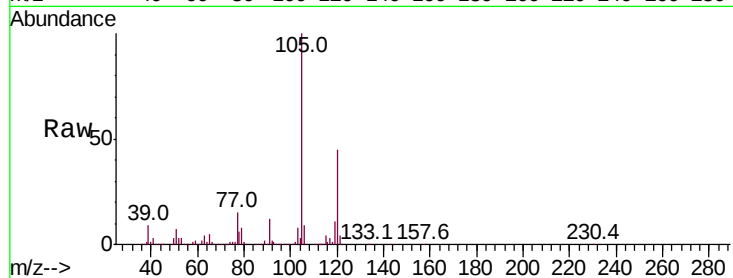
37.0 55.4

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#74

1,2,4-Trimethylbenzene

Concen: 8.576 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Tgt Ion:105 Resp: 3728565

Ion Ratio Lower Upper

105 100

120 46.6

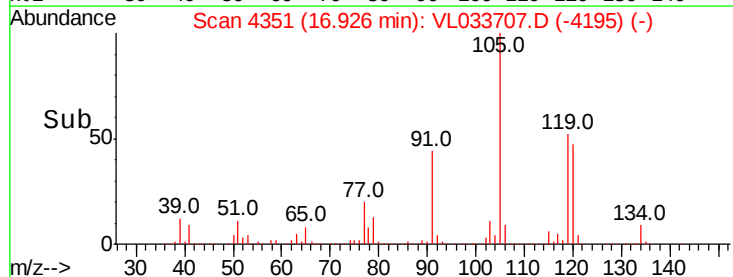
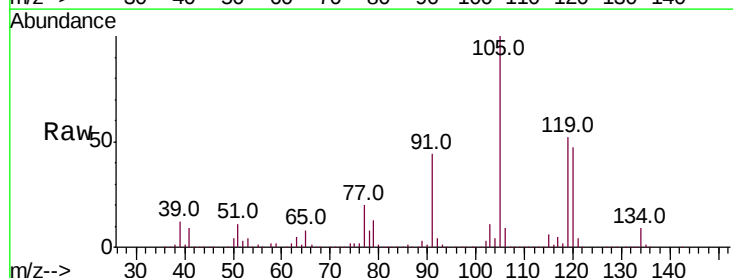
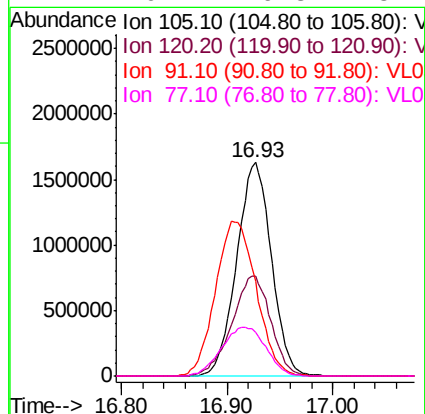
91 44.2

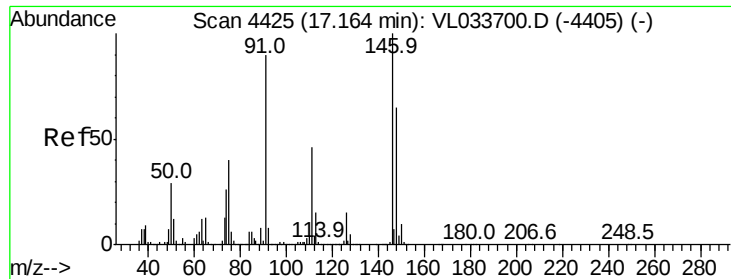
77 20.1

36.8 55.2

35.4 53.0

16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 8.213 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:146 Resp: 2188063

Ion Ratio Lower Upper

146 100

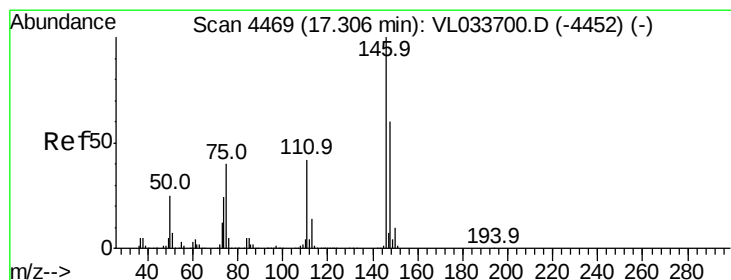
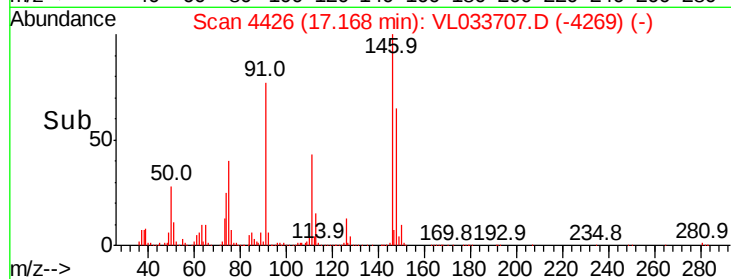
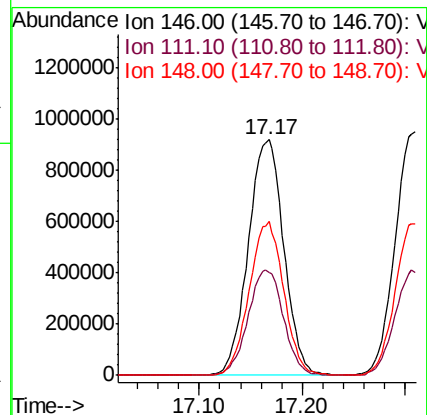
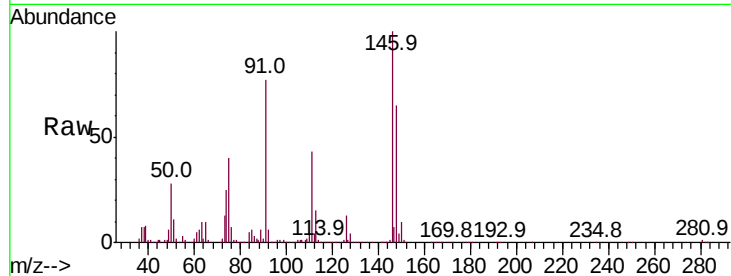
111 44.7 22.9 68.8

148 63.6 32.0 96.2

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#76

1,4-Dichlorobenzene

Concen: 8.616 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

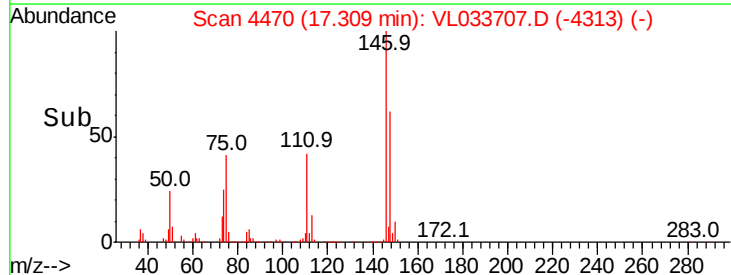
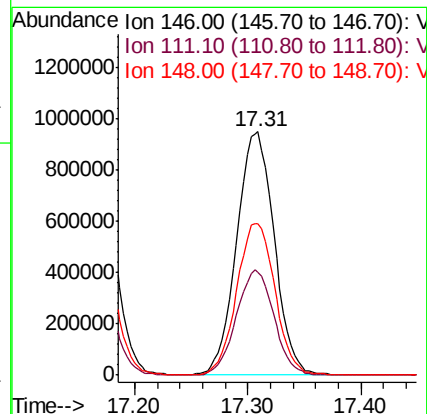
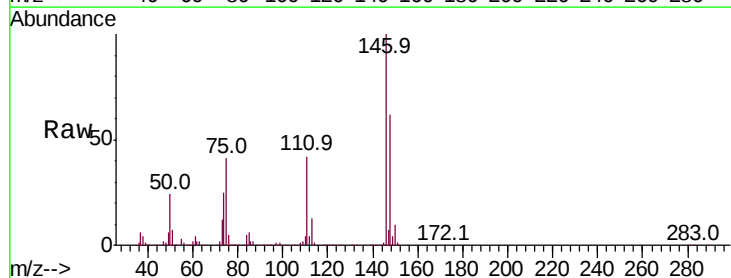
Tgt Ion:146 Resp: 2181691

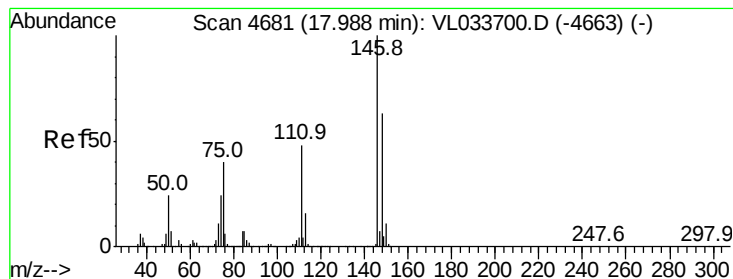
Ion Ratio Lower Upper

146 100

111 43.6 21.9 65.8

148 64.0 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 8.402 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051719

Tot Ion:146 Resp: 2103291

Ion Ratio Lower Upper

146 100

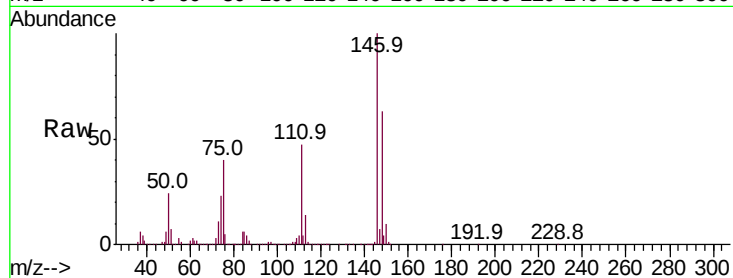
111 46.3 23.5 70.5

148 63.5 32.1 96.3

Manual Integrations
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MMDadoda

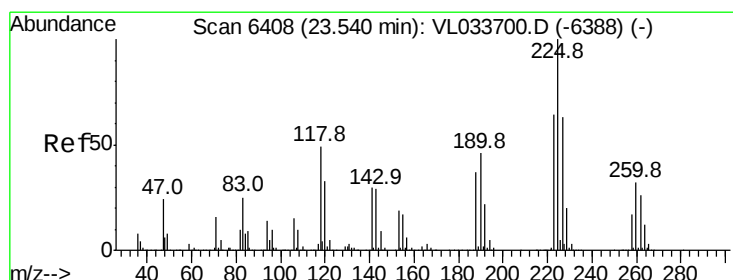
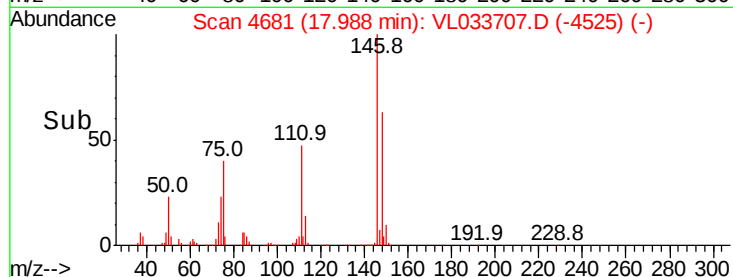
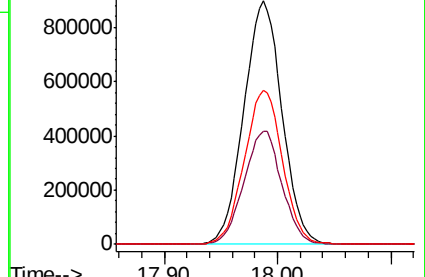
5/20/2019 12:05:30 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.069 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.00 min

Lab File: VL033707.D

Acq: 17 May 2019 7:10

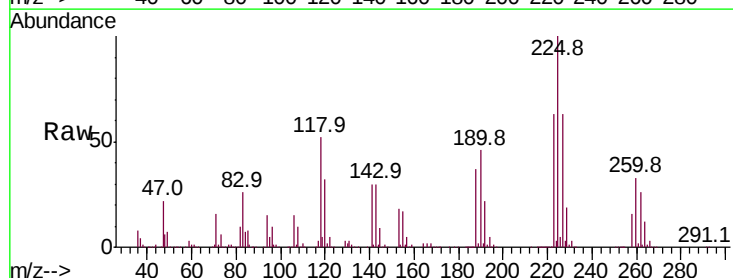
Tgt Ion:225 Resp: 1527312

Ion Ratio Lower Upper

225 100

223 63.5 50.2 75.4

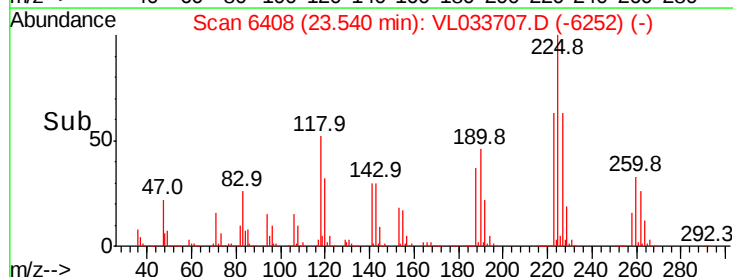
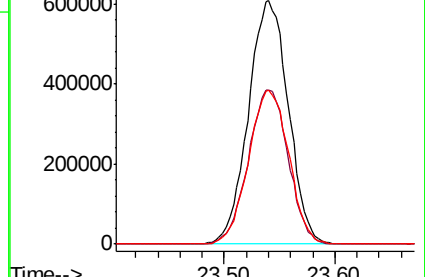
227 63.8 50.7 76.1

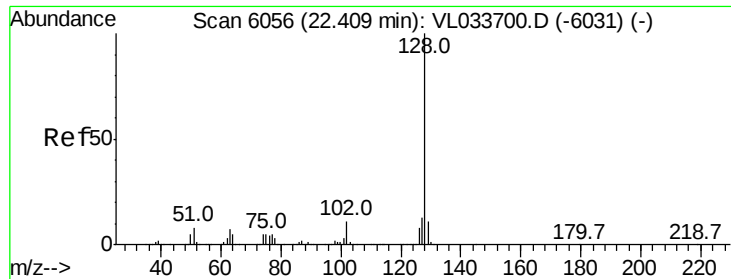


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





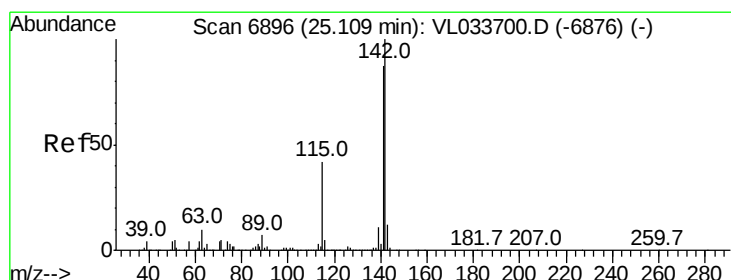
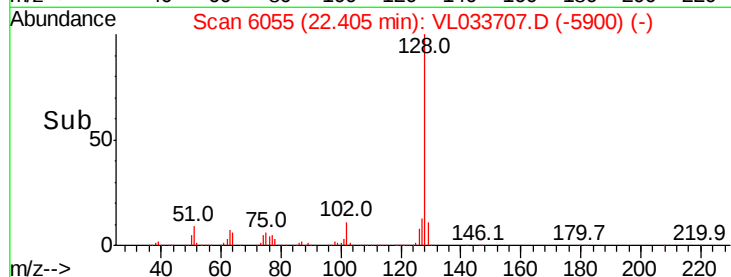
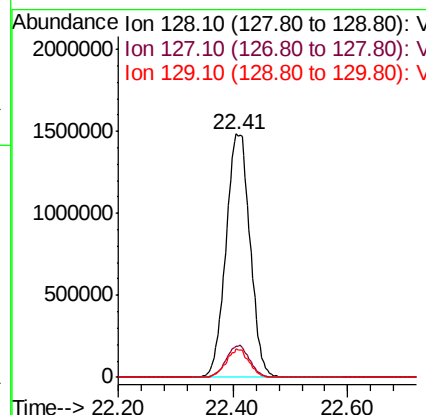
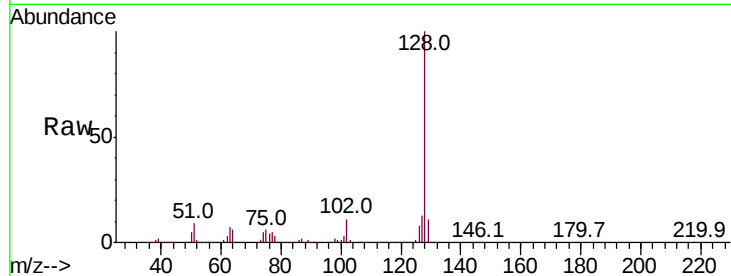
#79
Naphthalene
Concen: 10.708 ppbv m
RT: 22.41 min Scan# 6055
Delta R.T. -0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051719

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	11.5	8.9	13.3

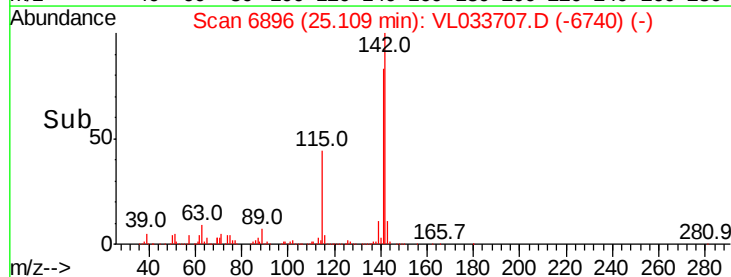
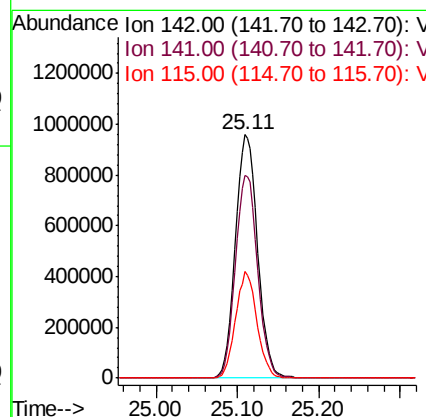
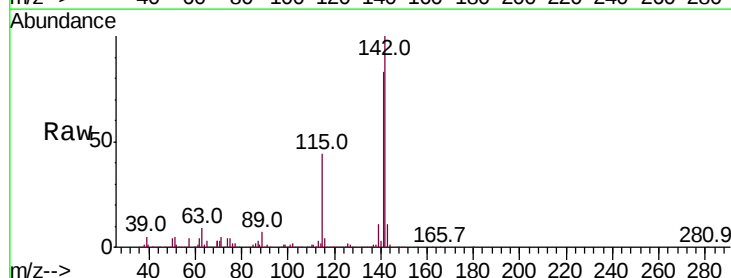
Manual Integrations
APPROVED

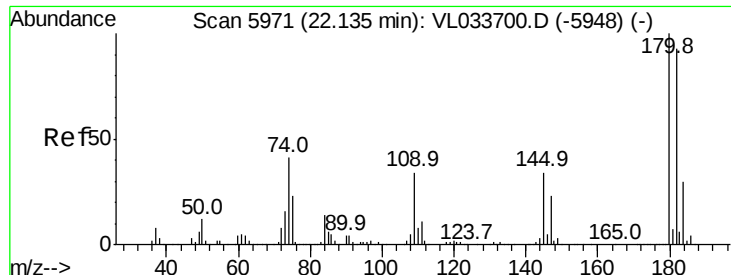
MMDadoda
5/20/2019 12:05:30 PM



#80
Naphthalene, 2-methyl-
Concen: 11.985 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.00 min
Lab File: VL033707.D
Acq: 17 May 2019 7:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	67.2	100.8
115	42.4	34.1	51.1





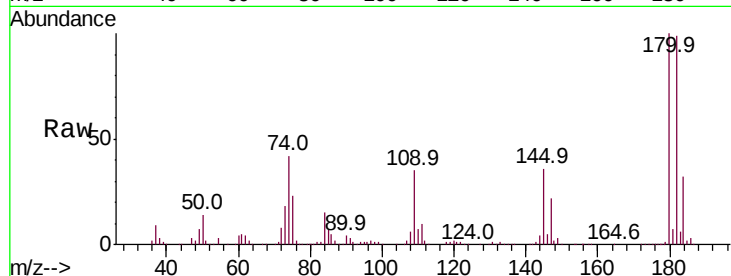
#81
 1,2,4-Trichlorobenzene
 Concen: 9.260 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033707.D
 Acq: 17 May 2019 7:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.1	114.1
184	30.6	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:30 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

