

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033719.D
 Acq On : 17 May 2019 16:41
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:06:31 PM

Quant Time: May 18 01:41:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 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	1080722	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2580622	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2749279m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2192112	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2018145	8.861	ppbv	99
3) Chlorodifluoromethane	3.01	51	1239753	10.015	ppbv	100
4) Chloromethane	3.17	50	655303	9.255	ppbv	98
5) Vinyl Chloride	3.29	62	656921	9.108	ppbv	97
6) Bromomethane	3.51	94	429344	9.756	ppbv	100
7) Chloroethane	3.60	64	240217	9.372	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1684073	9.172	ppbv	100
9) Propene	3.04	41	516274	9.805	ppbv	100
10) Heptane	8.25	43	1330527	8.923	ppbv	100
11) Trichlorofluoromethane	4.00	101	1955131	8.994	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1336016	8.801	ppbv	100
13) Ethanol	3.65	45	145742	8.564	ppbv	99
14) Bromoethene	3.79	108	541402	9.702	ppbv	99
15) Acetone	3.90	43	1265564	8.440	ppbv	100
16) 1,3-Butadiene	3.36	39	585774	9.810	ppbv	99
17) tert-Butyl alcohol	4.35	59	1150238	9.487	ppbv	99
18) 1,1-Dichloroethene	4.35	96	594351	9.277	ppbv	99
19) Isopropyl Alcohol	4.02	45	889539	9.201	ppbv	100
20) Methylene Chloride	4.41	84	506997	8.782	ppbv	94
21) Allyl Chloride	4.48	41	887354	9.488	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	635519	9.677	ppbv	98
23) Vinyl Acetate	5.16	43	2121945	10.733	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1421518	9.459	ppbv	99
25) Ethyl Acetate	5.77	43	2341605	8.890	ppbv	100
26) Hexane	5.78	57	1018813	8.997	ppbv	98
27) Carbon Disulfide	4.62	76	1505477	9.691	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1878017	10.173	ppbv	100
29) Chloroform	5.85	83	1713606	8.215	ppbv	98
30) Cyclohexane	7.25	84	892288	9.373	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1102511	9.819	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1814799	8.714	ppbv	99
34) 2-Butanone	5.33	43	1622721	10.145	ppbv	100
35) Carbon Tetrachloride	7.13	117	1927151	9.323	ppbv	98
36) Benzene	7.01	78	2190389	9.331	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1342170	8.863	ppbv	100
38) Trichloroethene	7.96	130	871014	9.999	ppbv	98
39) 1,2-Dichloropropane	7.74	63	801039	9.153	ppbv	97
40) 1,4-Dioxane	7.96	88	324679	8.868	ppbv #	98
41) Tetrahydrofuran	6.15	42	861165	9.609	ppbv	100
42) Bromodichloromethane	7.92	83	1909892	9.213	ppbv	97
43) Methyl Methacrylate	8.14	69	877139	10.153	ppbv	100

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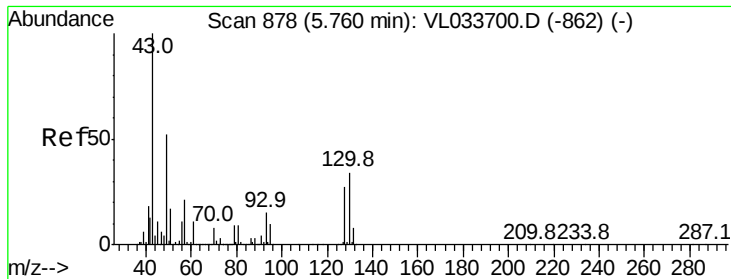
Manual Integrations
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Quant Time: May 18 01:41:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3587962	9.044	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1204992	11.002	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	1341078	10.457	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	911056	9.163	ppbv	97
48) Dibromochloromethane	10.45	129	1692585	9.825	ppbv	100
49) Bromoform	13.20	173	1489899	10.278	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2332857	9.482	ppbv	100
51) 2-Hexanone	10.27	43	1980689	10.315	ppbv #	100
52) Tetrachloroethene	11.37	164	831663	10.078	ppbv	99
53) Toluene	9.95	91	2575701	10.173	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1439686	9.488	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.28	131	1124807	8.841	ppbv	97
57) Chlorobenzene	12.30	112	1973589	8.721	ppbv	99
58) Ethyl Benzene	12.87	91	3531380	9.700	ppbv	99
59) m/p-Xylene	13.15	91	5875499m	18.462	ppbv	
60) o-Xylene	13.85	91	2936943	9.154	ppbv	99
61) Styrene	13.69	104	2249268	10.413	ppbv	100
62) Isopropylbenzene	14.83	105	4009695	9.281	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2019991	8.658	ppbv	100
64) n-propylbenzene	15.72	120	1033974	9.252	ppbv	99
65) tert-Butylbenzene	16.91	119	3552826	9.007	ppbv	99
66) Benzyl Chloride	17.16	91	2078513	11.063	ppbv	99
67) sec-Butylbenzene	17.46	105	4984278	9.027	ppbv	100
69) p-Isopropyltoluene	17.82	119	4188675	9.179	ppbv	100
70) n-Butylbenzene	18.72	91	4391622	8.974	ppbv	99
71) 2-Chlorotoluene	15.62	91	3049127	9.512	ppbv	100
72) 4-Ethyltoluene	16.00	105	3479987	9.487	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3305552	9.236	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3413587	8.764	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1991601	8.344	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2003208	8.830	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1895201	8.450	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1451506	8.560	ppbv	100
79) Naphthalene	22.41	128	3014040	8.331	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1133245	8.244	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1650599	7.791	ppbv	99

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



#1

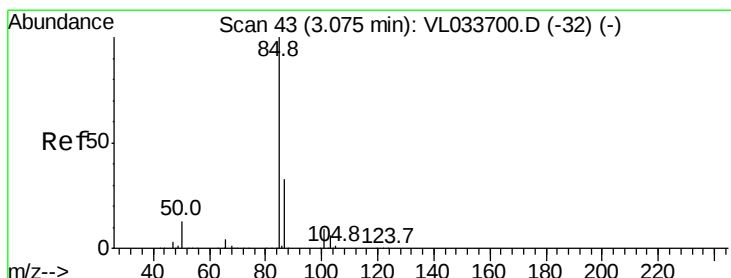
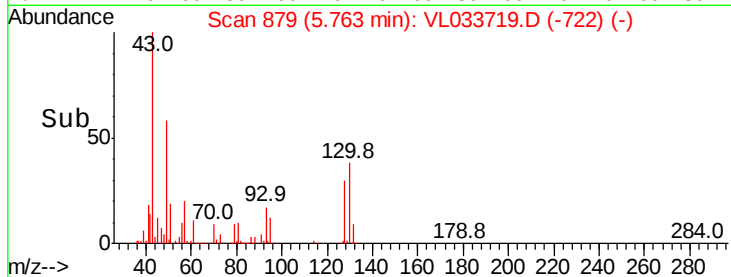
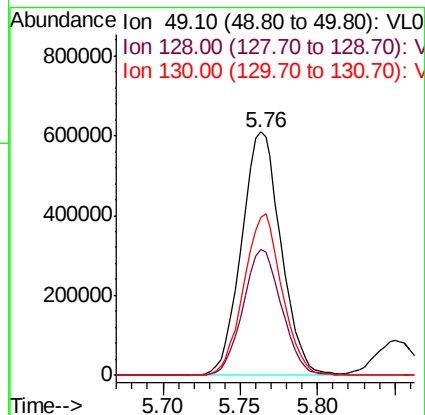
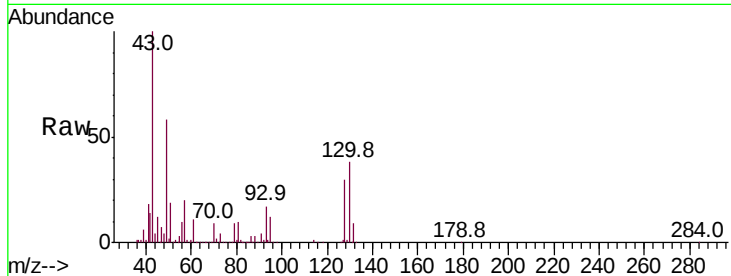
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 879
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
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 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 49 Resp: 1080722
 Ion Ratio Lower Upper
 49 100
 128 50.9 25.2 75.6
 130 64.7 32.5 97.5

Manual Integrations
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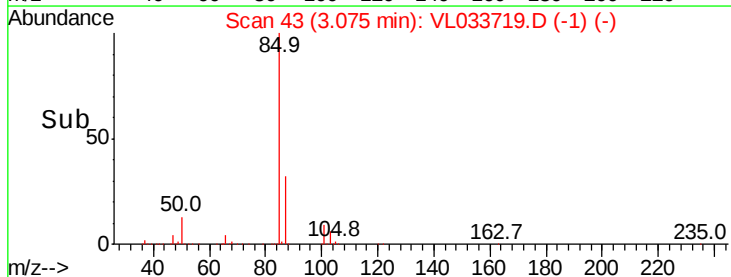
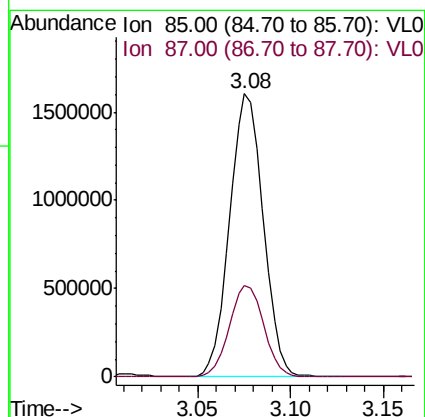
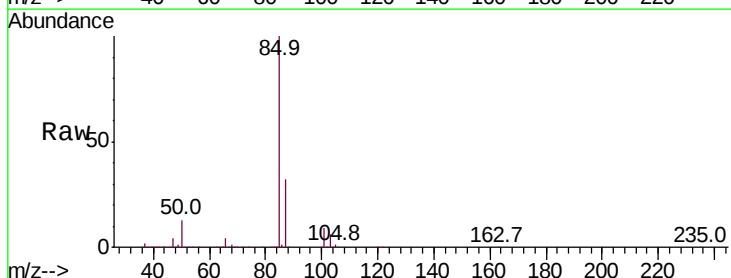
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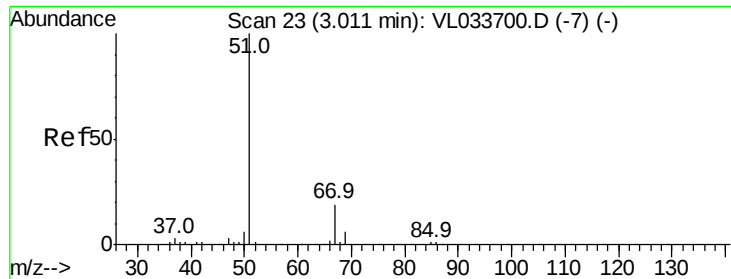


#2

Dichlorodifluoromethane
 Concen: 8.861 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion: 85 Resp: 2018145
 Ion Ratio Lower Upper
 85 100
 87 32.2 26.3 39.5





#3

Chlorodifluoromethane

Concen: 10.015 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1239753

Ion Ratio Lower Upper

51 100

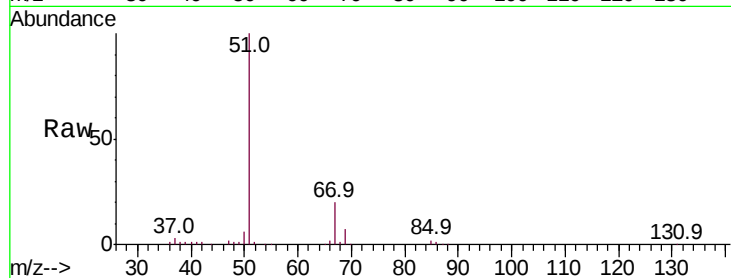
67 19.6 15.6 23.4

Manual Integrations

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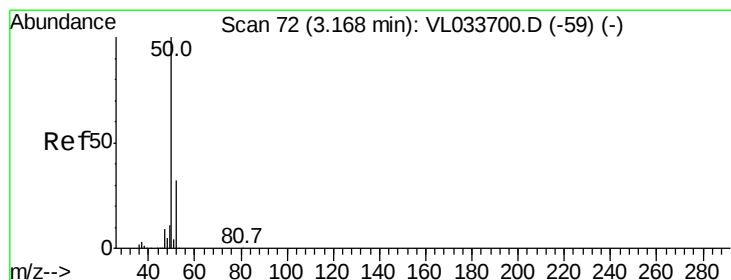
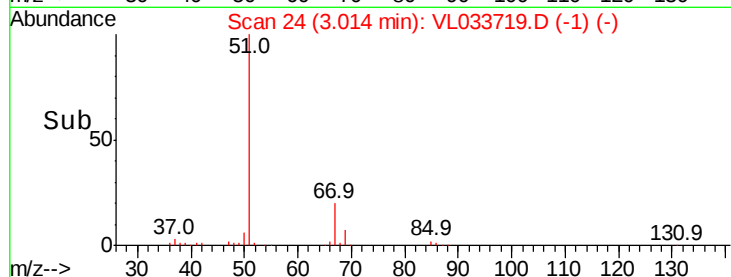
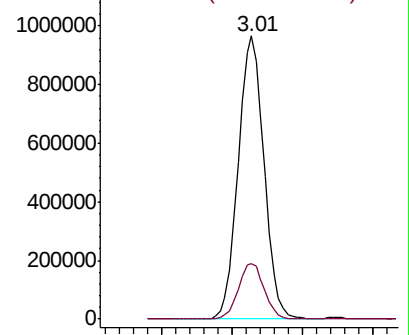
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.255 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033719.D

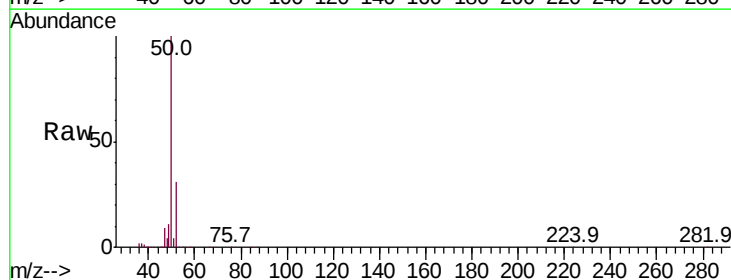
Acq: 17 May 2019 16:41

Tgt Ion: 50 Resp: 655303

Ion Ratio Lower Upper

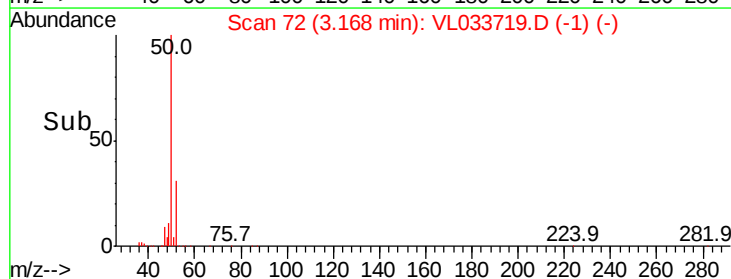
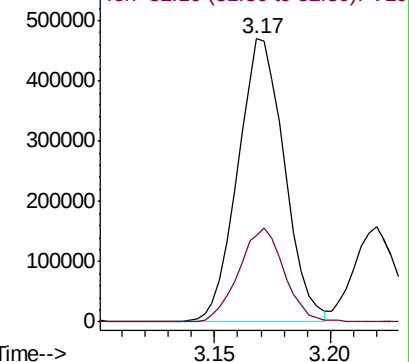
50 100

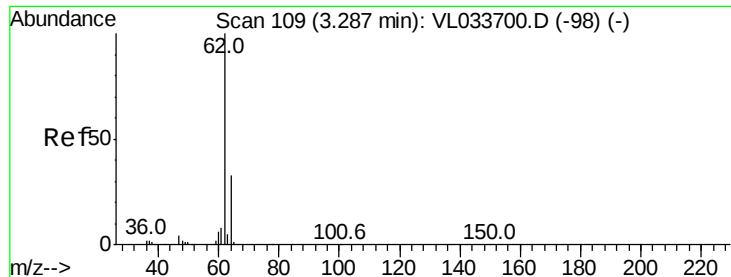
52 30.7 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.108 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 656921

Ion Ratio Lower Upper

62 100

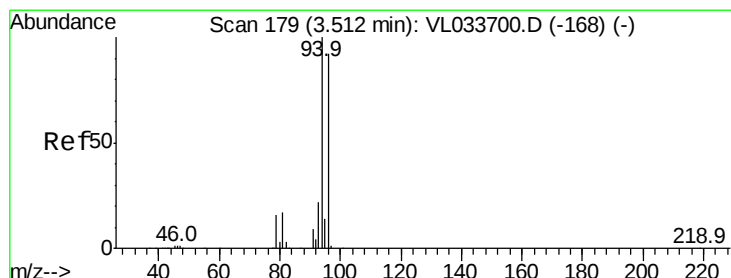
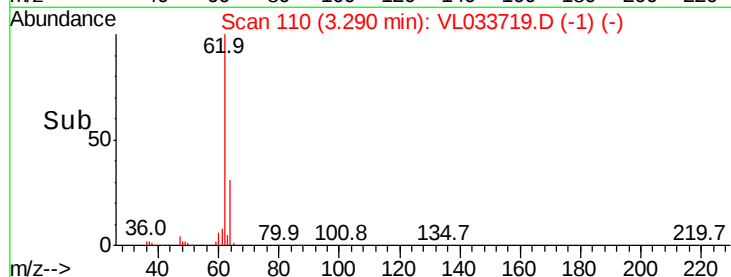
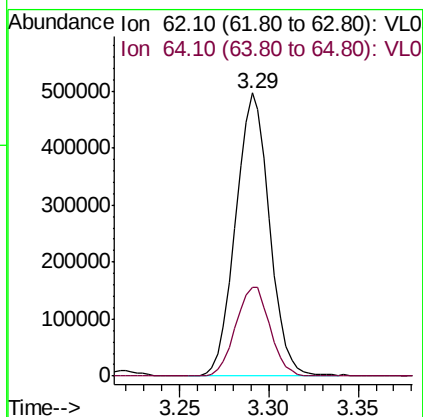
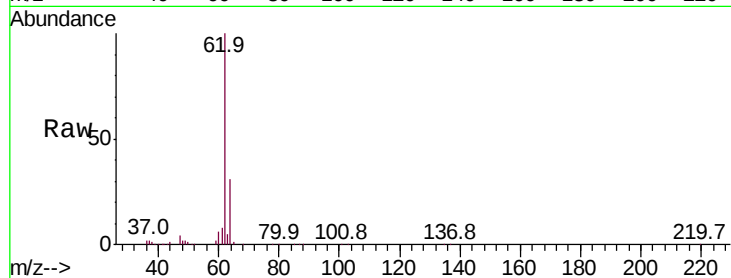
64 31.3 26.4 39.6

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#6

Bromomethane

Concen: 9.756 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033719.D

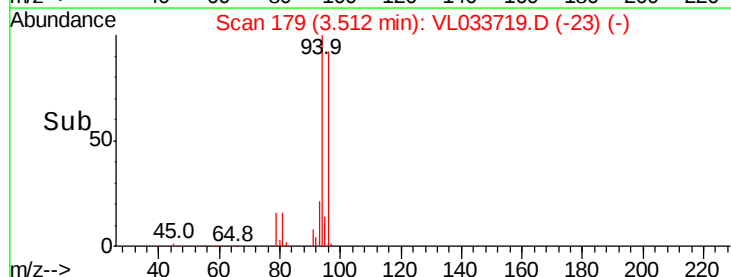
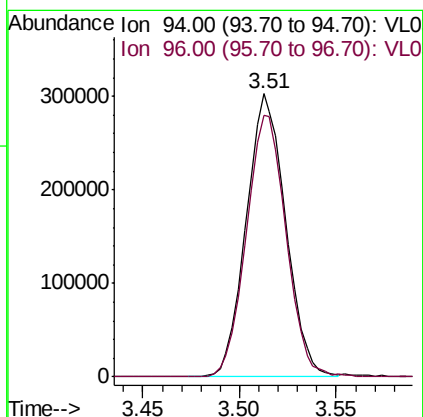
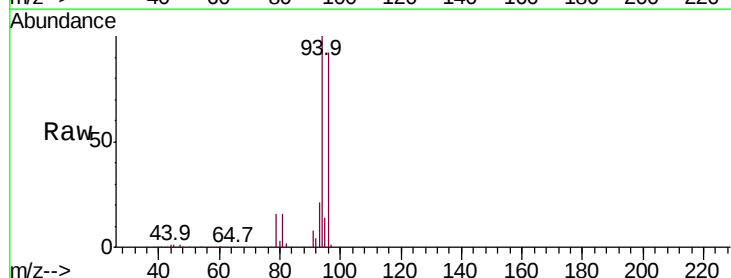
Acq: 17 May 2019 16:41

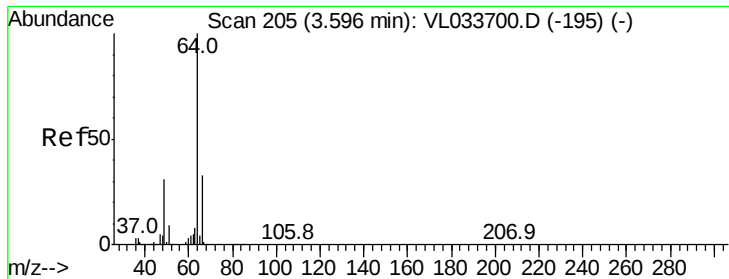
Tgt Ion: 94 Resp: 429344

Ion Ratio Lower Upper

94 100

96 92.3 73.6 110.4





#7

Chloroethane

Concen: 9.372 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 240217

Ion Ratio Lower Upper

64 100

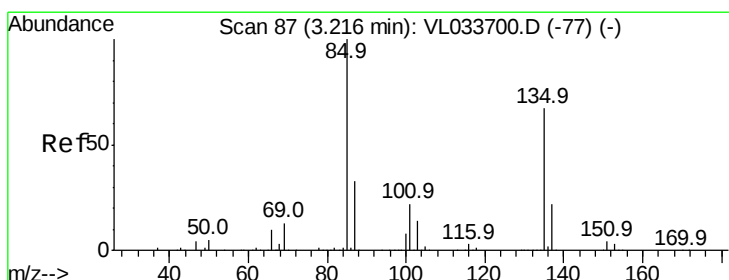
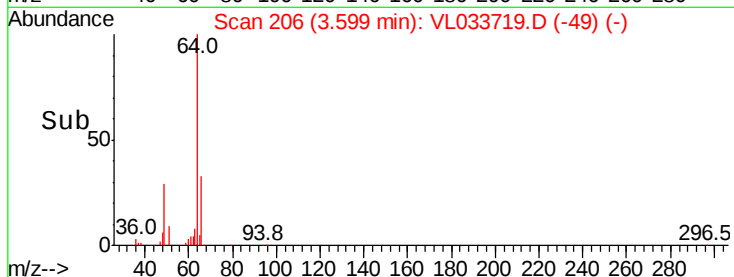
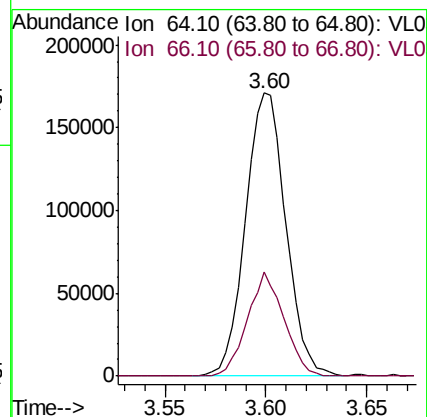
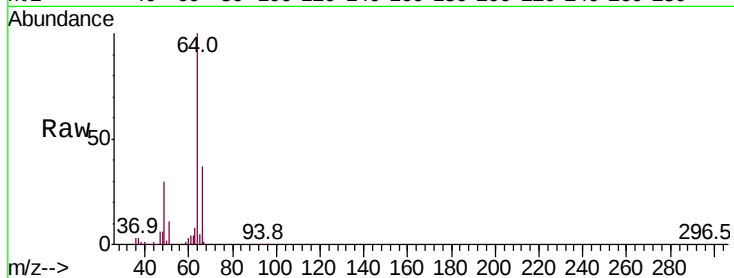
66 36.7 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 9.172 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033719.D

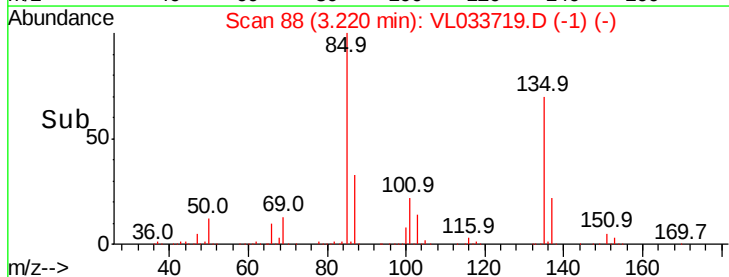
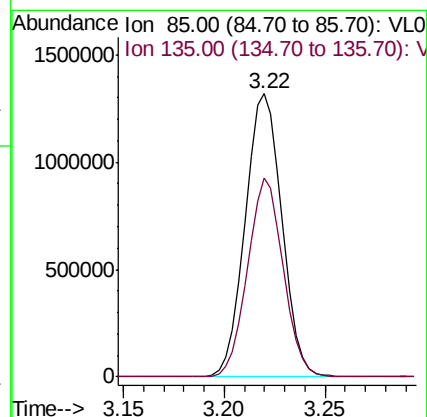
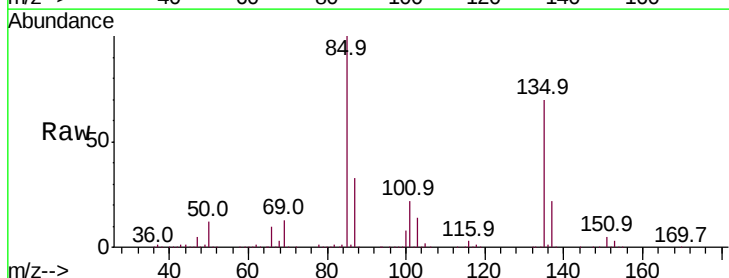
Acq: 17 May 2019 16:41

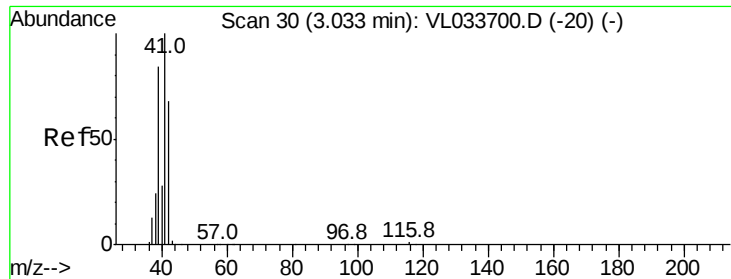
Tgt Ion: 85 Resp: 1684073

Ion Ratio Lower Upper

85 100

135 68.3 54.5 81.7





#9

Propene

Concen: 9.805 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 516274

Ion Ratio Lower Upper

41 100

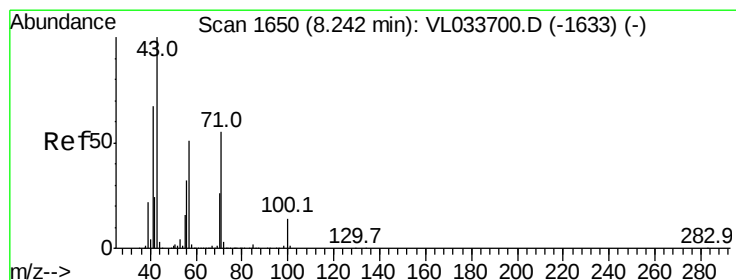
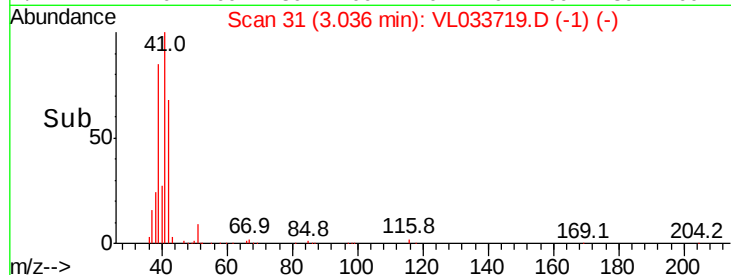
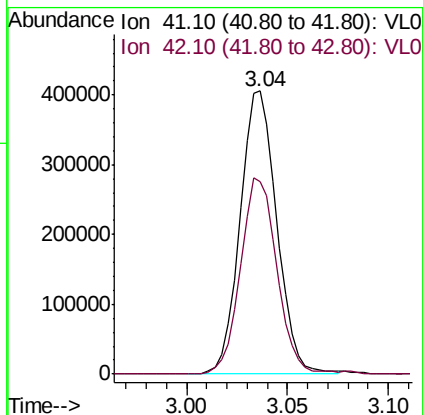
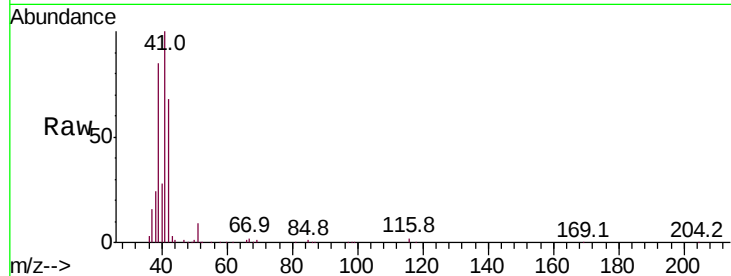
42 70.0 56.1 84.1

Manual Integrations

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#10

Heptane

Concen: 8.923 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.01 min

Lab File: VL033719.D

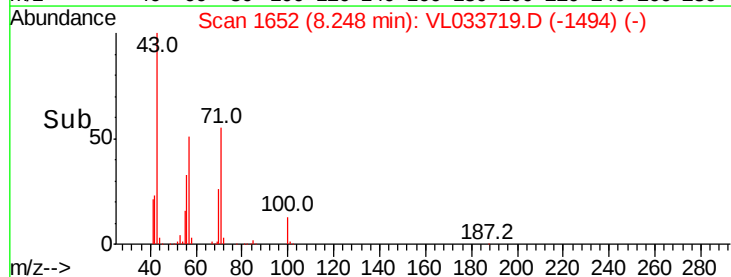
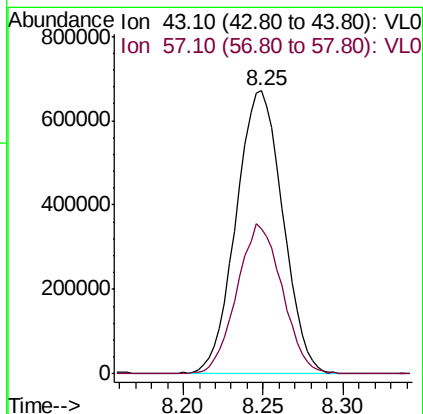
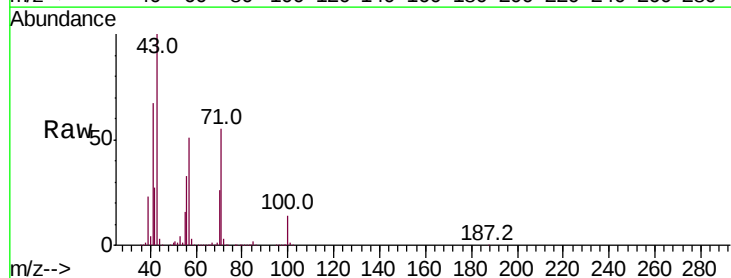
Acq: 17 May 2019 16:41

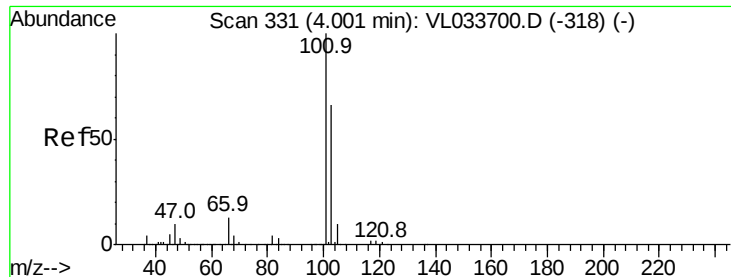
Tgt Ion: 43 Resp: 1330527

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0





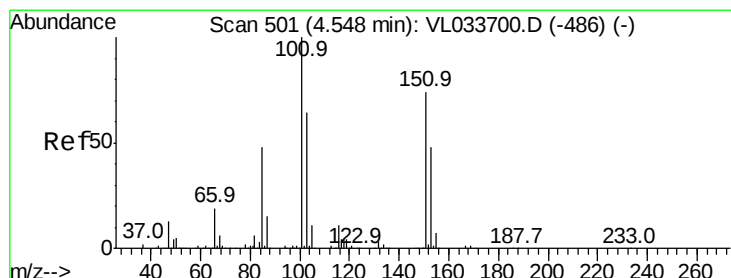
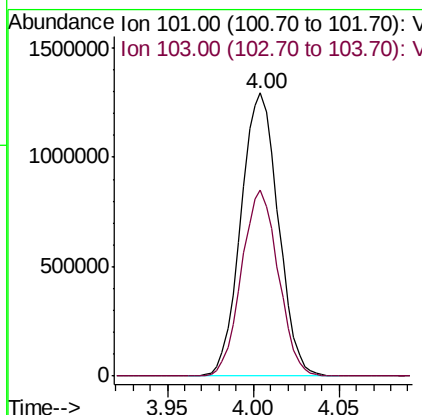
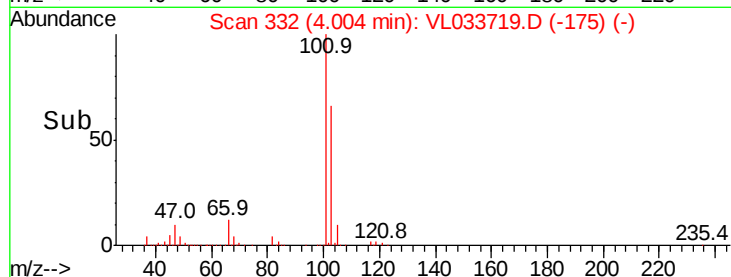
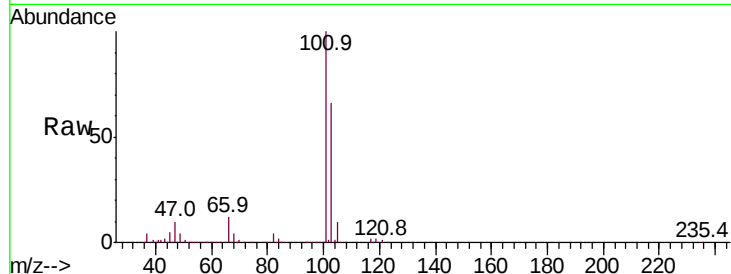
#11
 Trichlorofluoromethane
 Concen: 8.994 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1955131
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.6 78.8

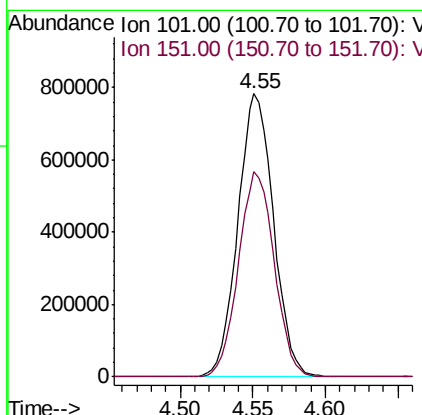
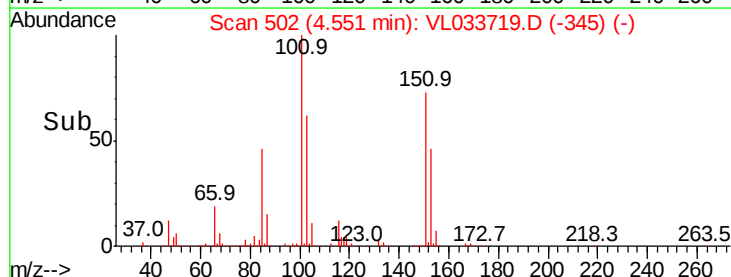
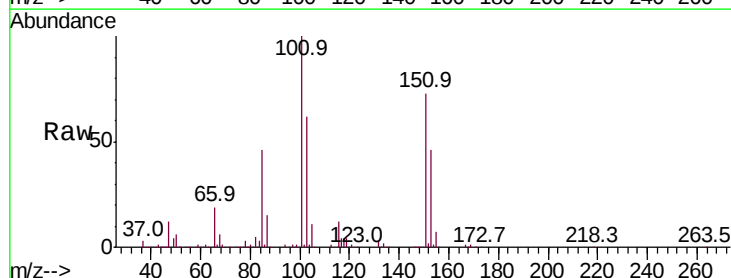
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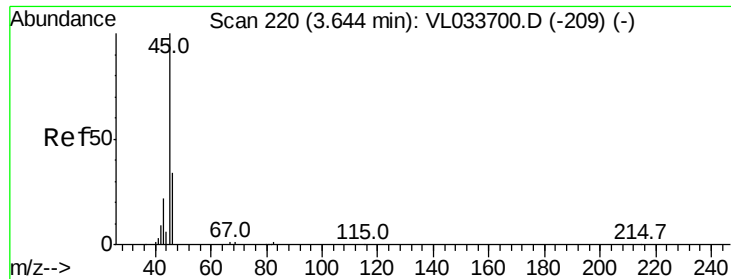
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.801 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion:101 Resp: 1336016
 Ion Ratio Lower Upper
 101 100
 151 73.1 58.2 87.4





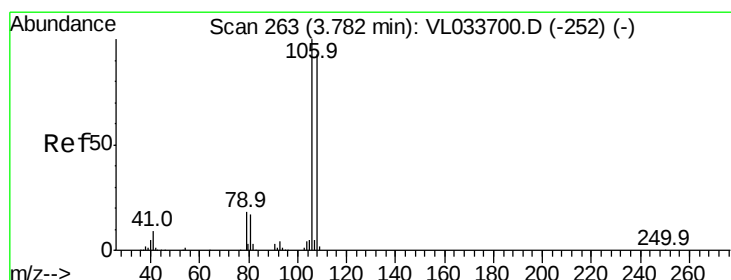
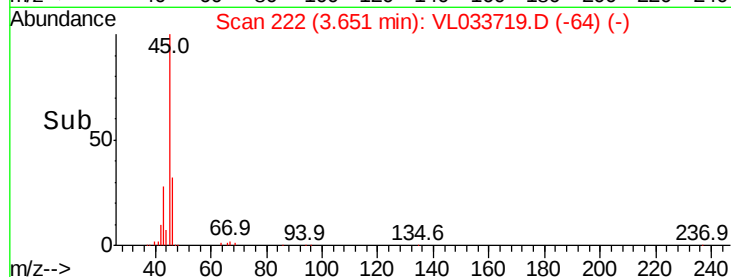
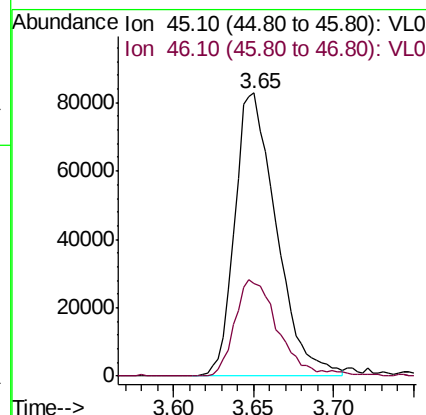
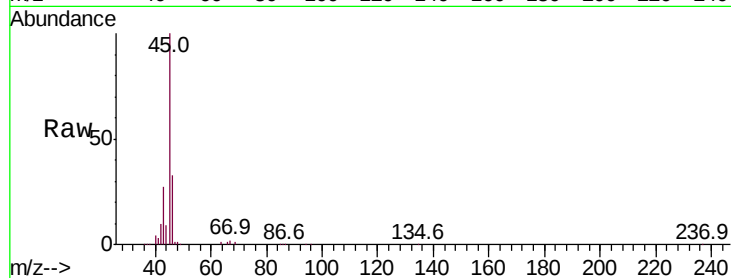
#13
Ethanol
Concen: 8.564 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 145742
Ion Ratio Lower Upper
45 100
46 36.1 14.8 59.0

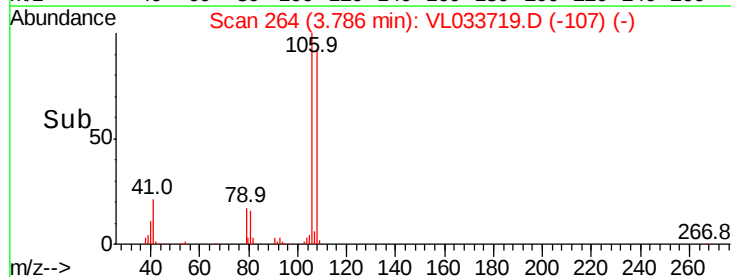
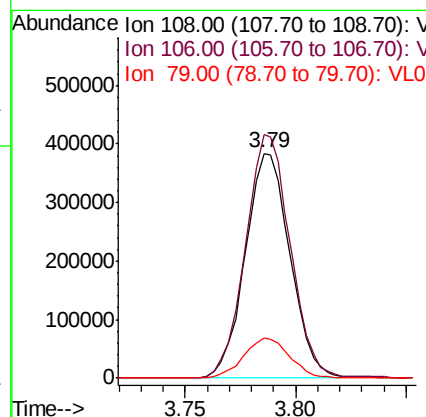
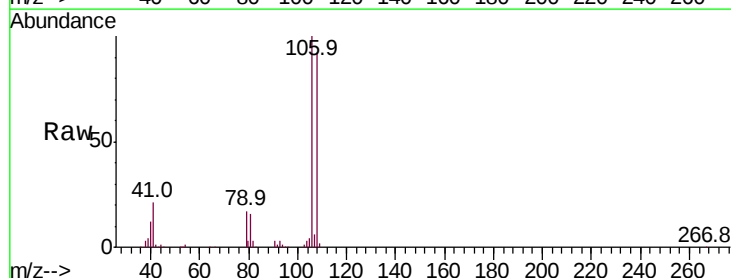
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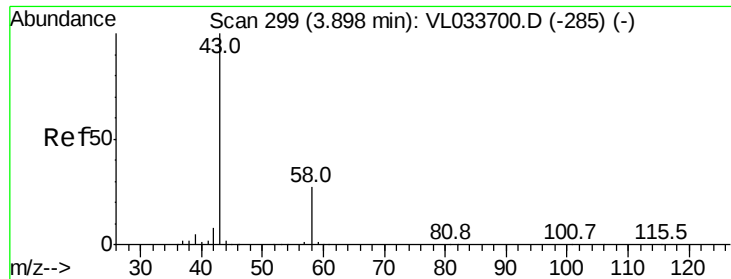
MMDadoda
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#14
Bromoethene
Concen: 9.702 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 108 Resp: 541402
Ion Ratio Lower Upper
108 100
106 108.7 86.5 129.7
79 18.1 15.1 22.7





#15

Acetone

Concen: 8.440 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1265564

Ion Ratio Lower Upper

43 100

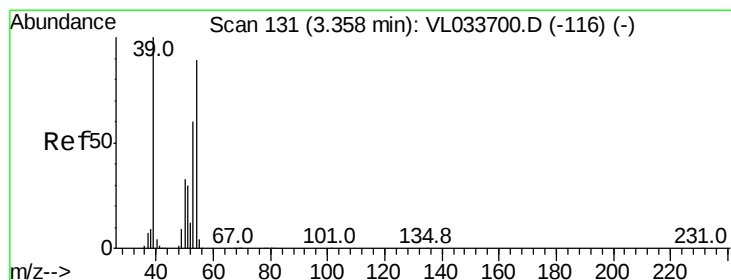
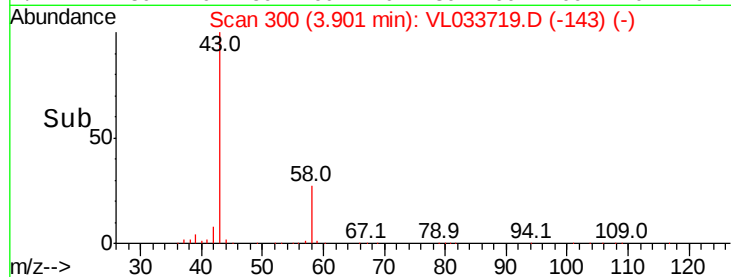
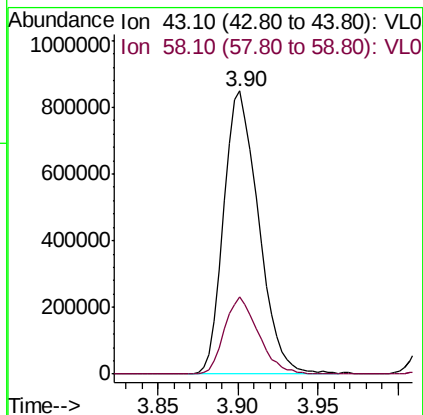
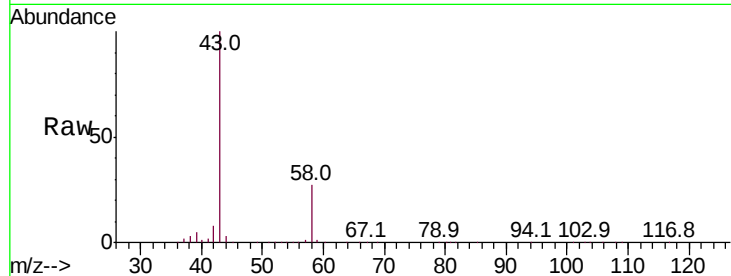
58 26.6 21.3 31.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.810 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033719.D

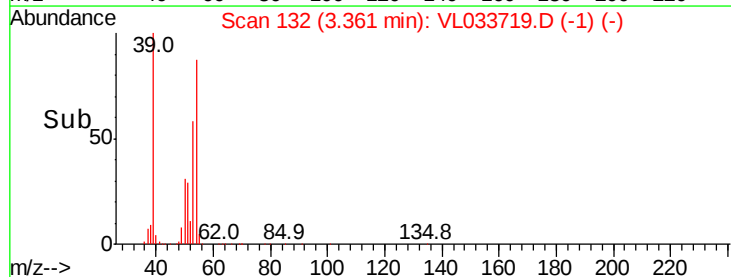
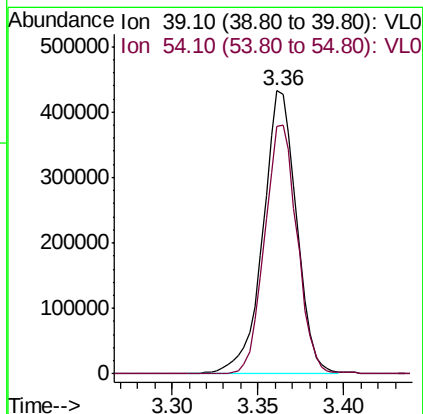
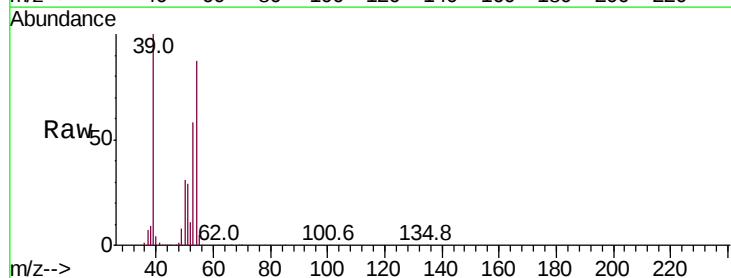
Acq: 17 May 2019 16:41

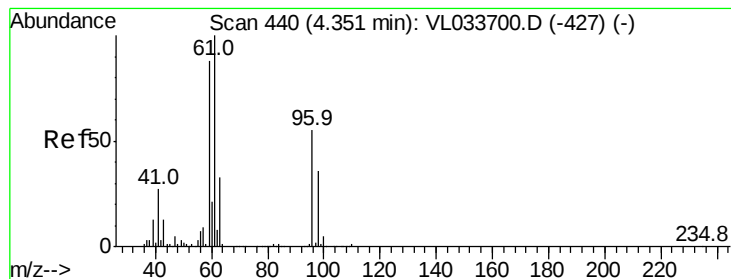
Tgt Ion: 39 Resp: 585774

Ion Ratio Lower Upper

39 100

54 85.2 69.0 103.6





#17

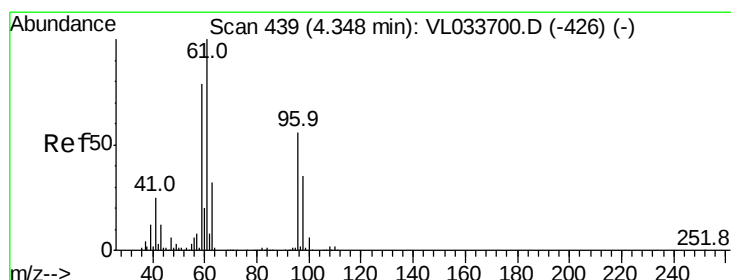
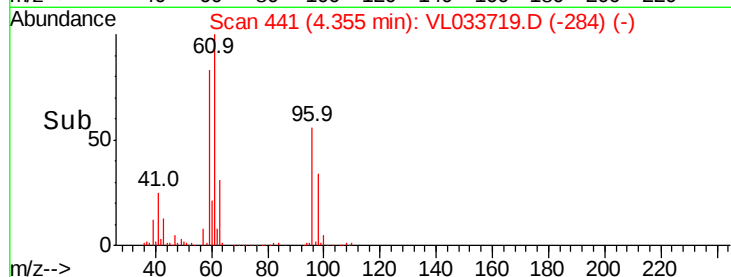
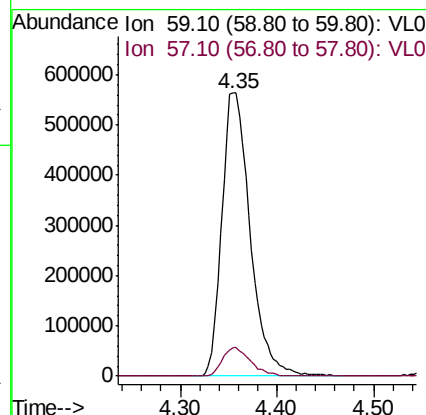
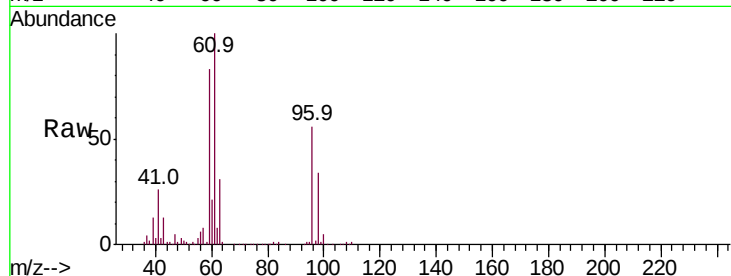
tert-Butyl alcohol
 Concen: 9.487 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1150238
 Ion Ratio Lower Upper
 59 100
 57 10.2 8.4 12.6

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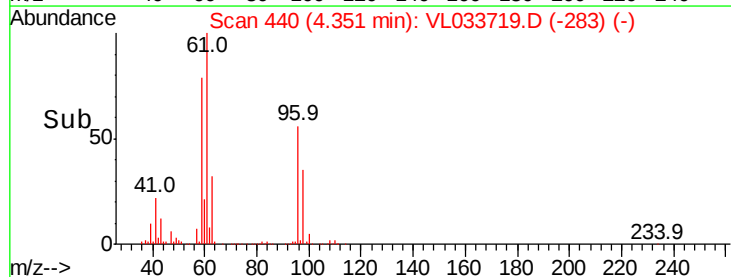
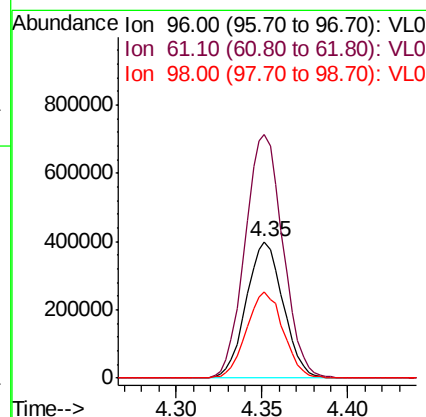
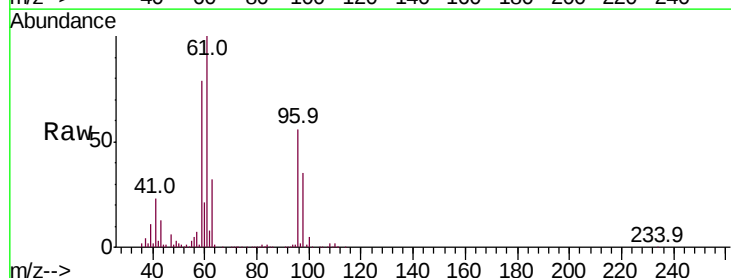
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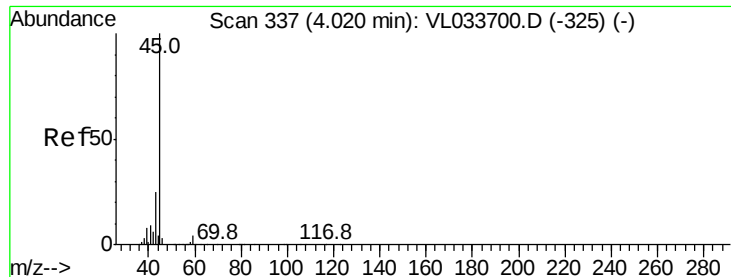


#18

1,1-Dichloroethene
 Concen: 9.277 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion: 96 Resp: 594351
 Ion Ratio Lower Upper
 96 100
 61 178.3 143.1 214.7
 98 62.8 49.5 74.3





#19

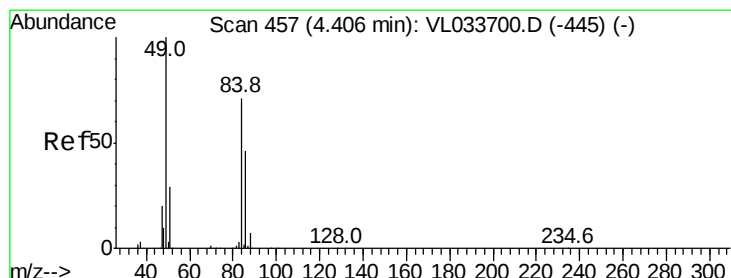
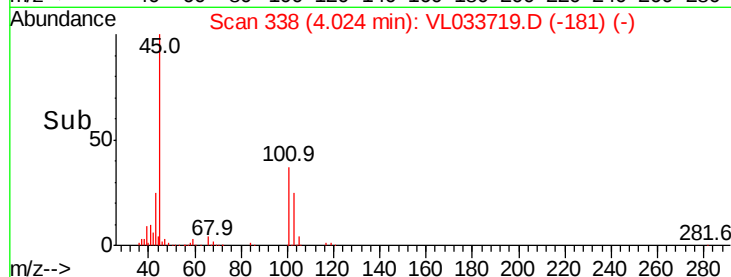
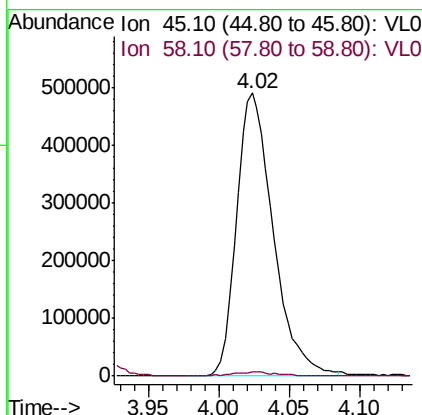
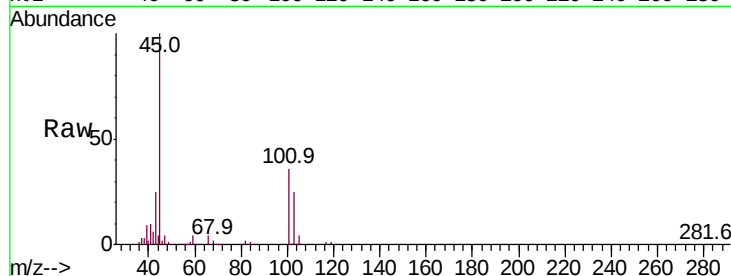
Isopropyl Alcohol
 Concen: 9.201 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 889539
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.6 2.4

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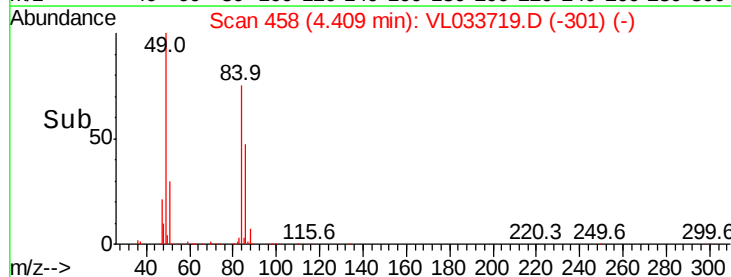
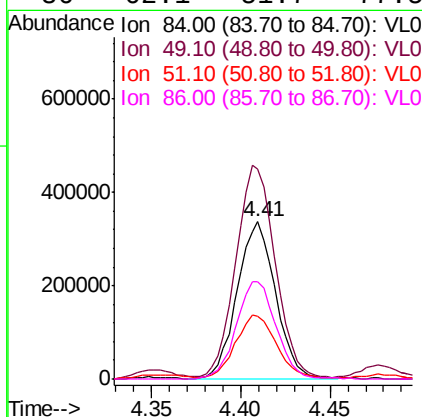
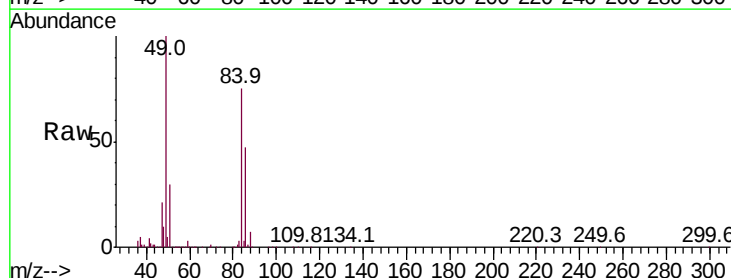
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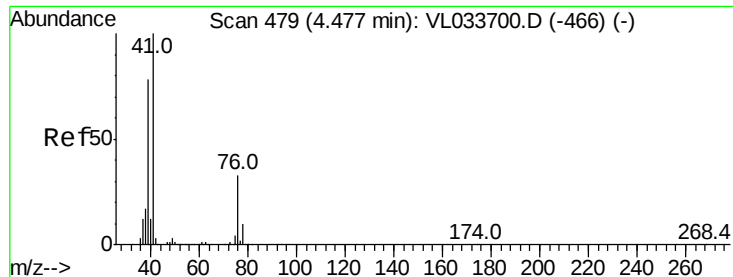


#20

Methylene Chloride
 Concen: 8.782 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion: 84 Resp: 506997
 Ion Ratio Lower Upper
 84 100
 49 132.2 112.8 169.2
 51 38.6 33.4 50.0
 86 62.1 51.7 77.5





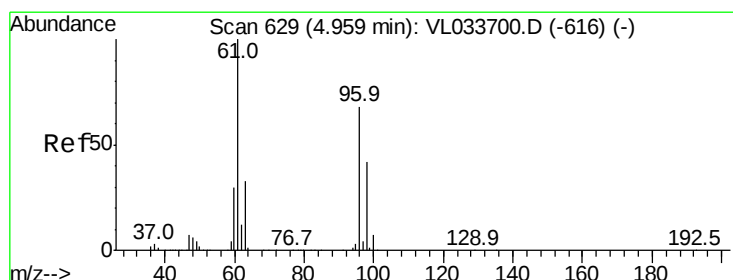
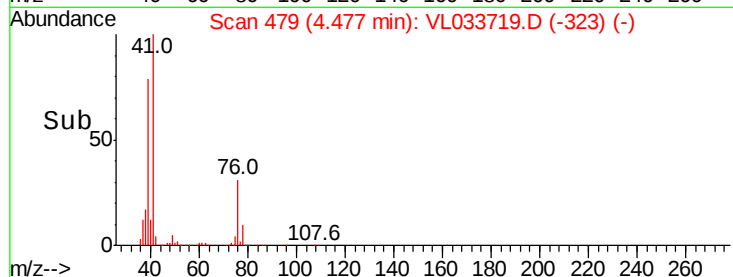
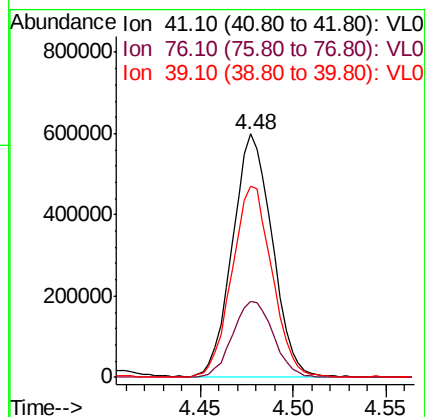
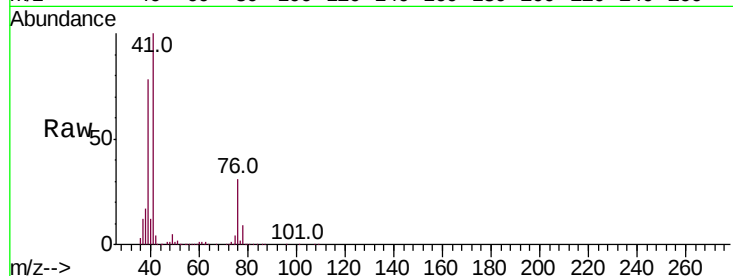
#21
Allvl Chloride
Concen: 9.488 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
41	100	887354		
76	32.2		25.9	38.9
39	79.9		64.6	97.0

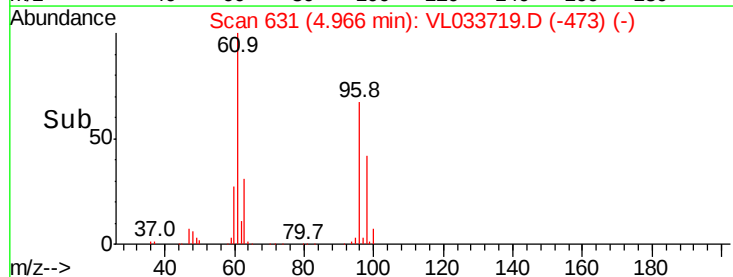
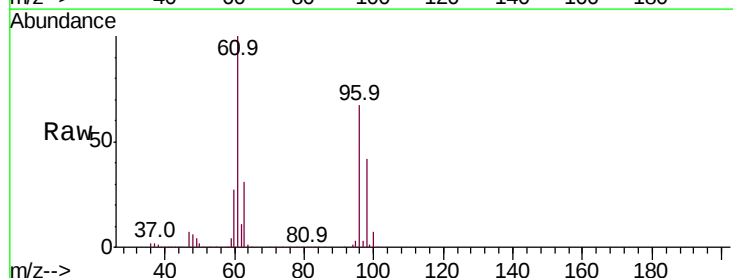
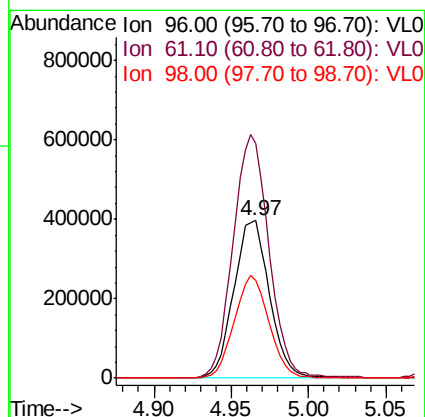
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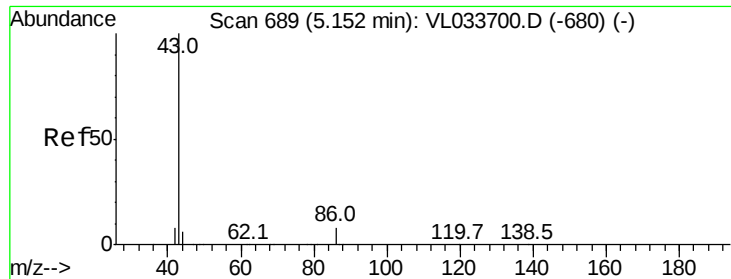
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#22
trans-1,2-Dichloroethene
Concen: 9.677 ppbv
RT: 4.97 min Scan# 631
Delta R.T. 0.01 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	635519		
61	149.0		116.8	175.2
98	62.3		49.4	74.0





#23

Vinyl Acetate

Concen: 10.733 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2121945

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

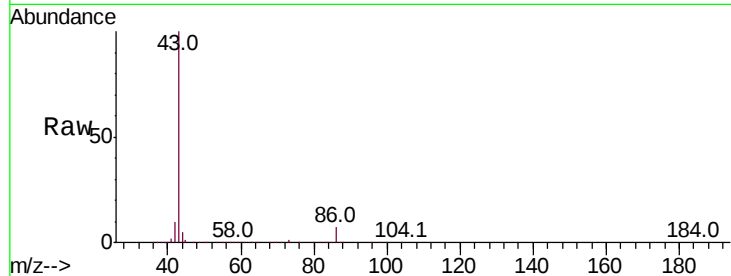
42 9.7 7.5 11.3

44 5.4 4.4 6.6

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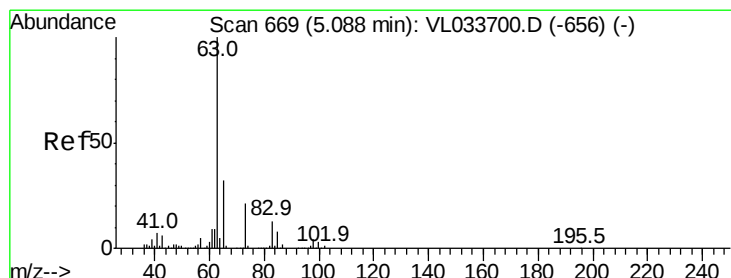
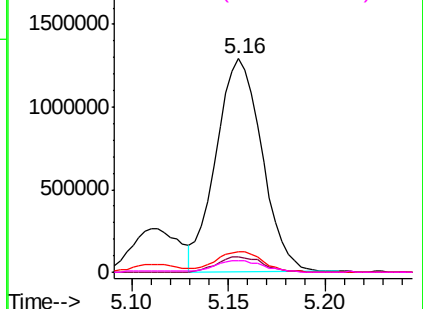
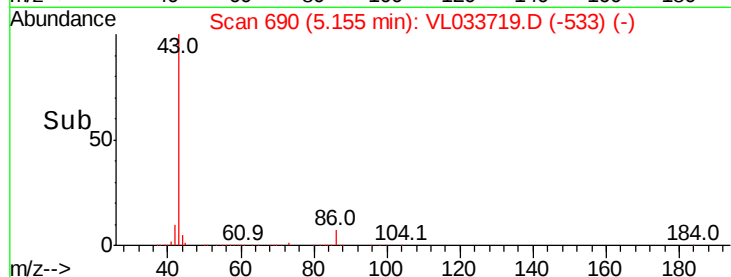


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.459 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

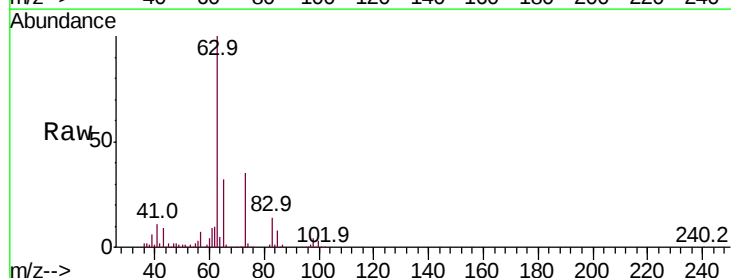
Tgt Ion: 63 Resp: 1421518

Ion Ratio Lower Upper

63 100

98 4.1 1.8 5.5

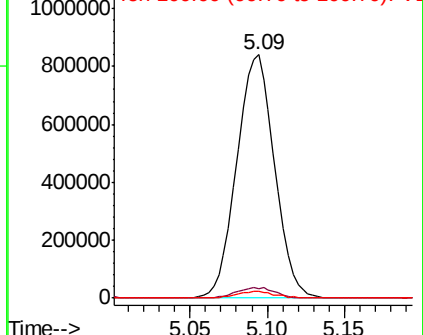
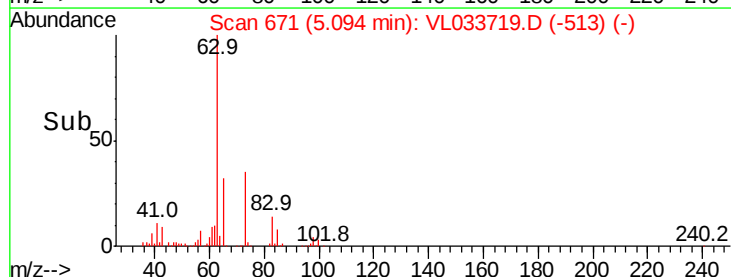
100 2.7 1.4 4.2

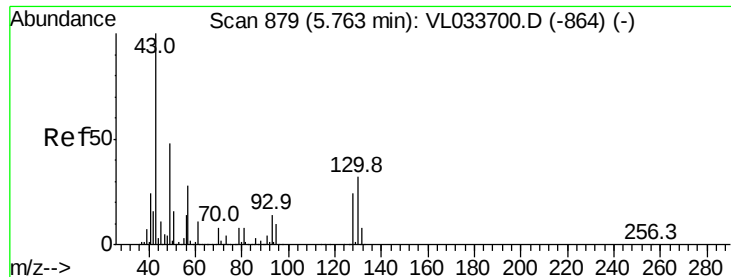


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.890 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tot Ion: 43 Resp: 2341605

Ion Ratio Lower Upper

43 100

45 10.1 7.9 11.9

61 9.5 7.7 11.5

70 7.2 5.8 8.6

Instrument :

MSVOA_L

ClientSampleId :

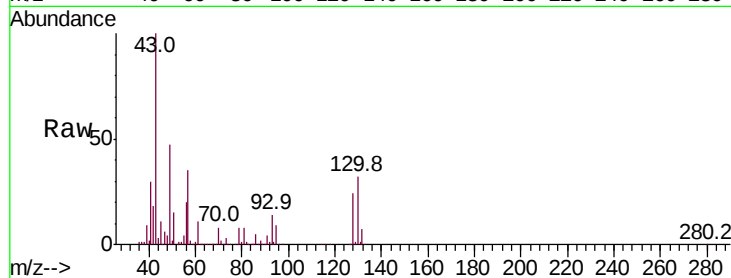
VSTDCCC010EC

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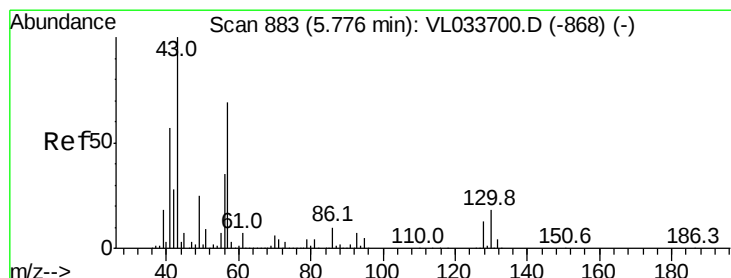
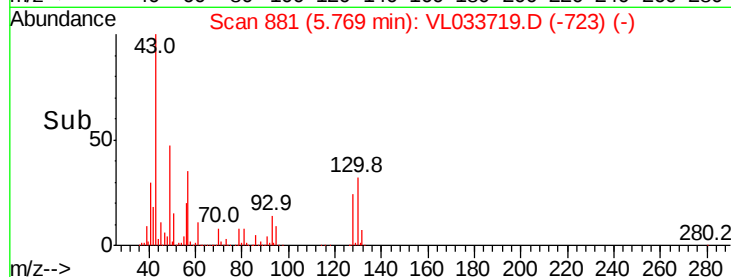
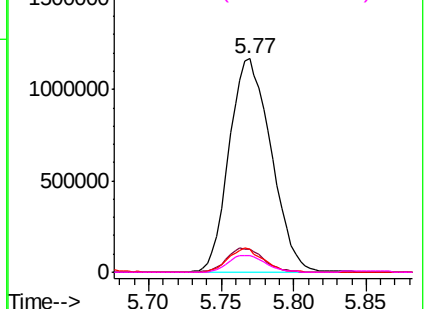


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.997 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion: 57 Resp: 1018813

Ion Ratio Lower Upper

57 100

41 87.8 69.8 104.6

43 231.2 181.8 272.6

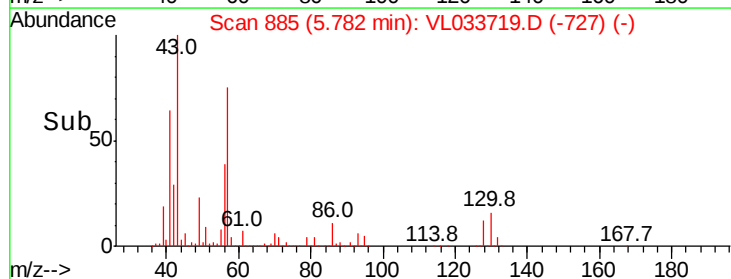
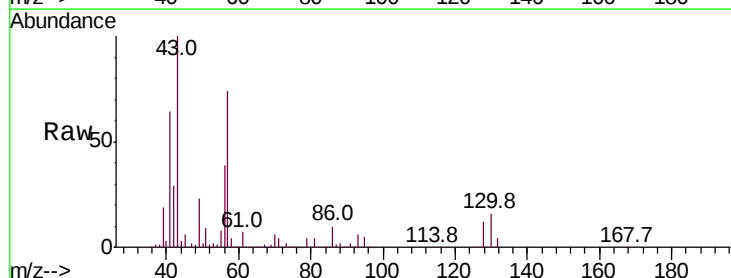
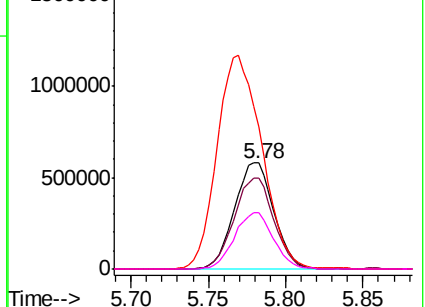
56 52.9 42.1 63.1

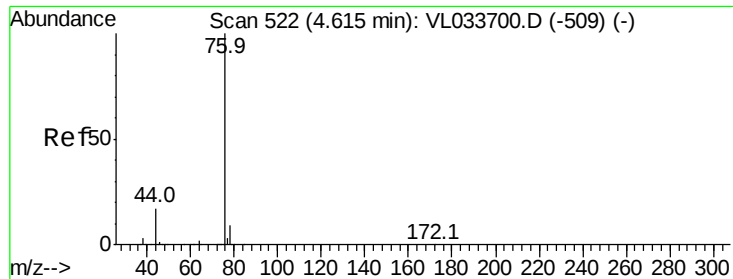
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.691 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1505477

Ion Ratio Lower Upper

76 100

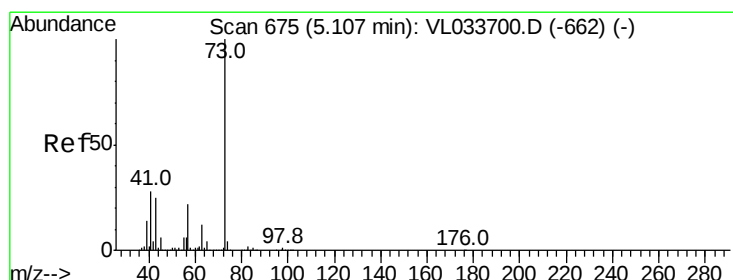
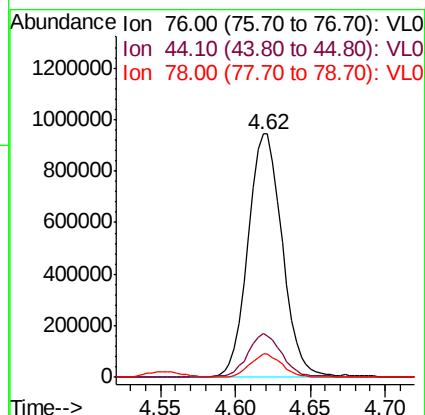
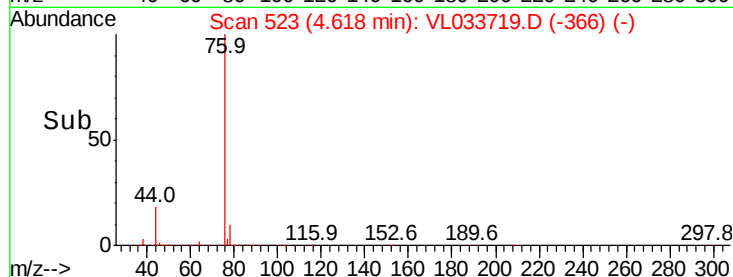
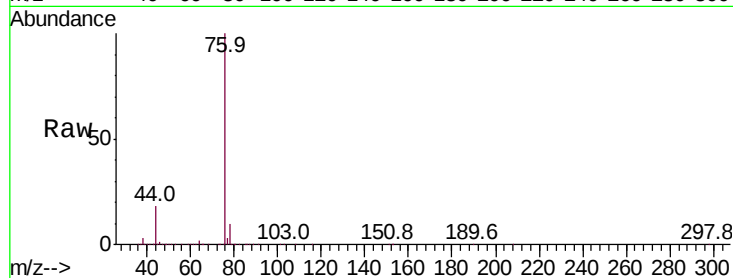
44 17.4 13.8 20.8

78 9.0 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 10.173 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.01 min

Lab File: VL033719.D

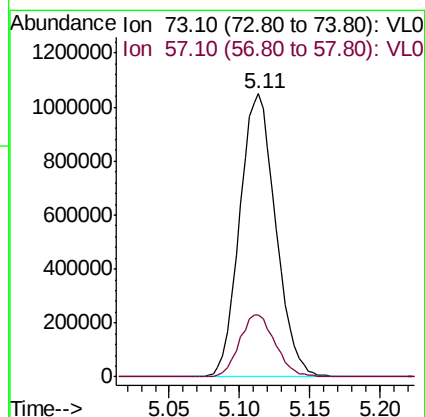
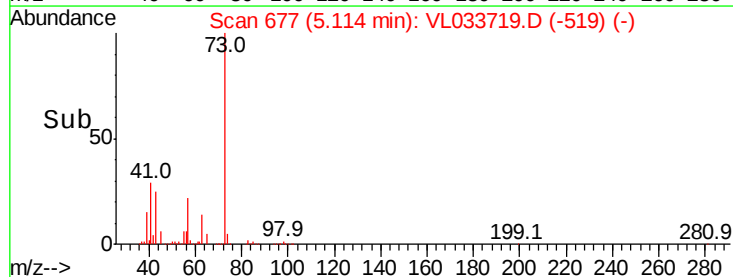
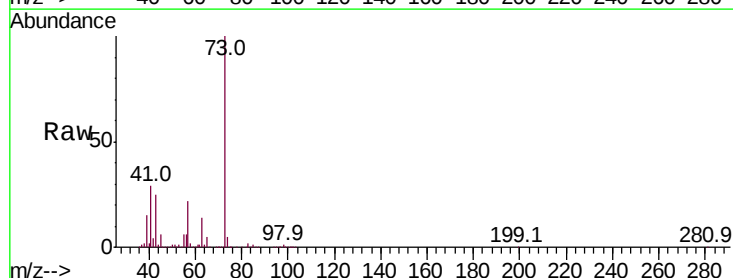
Acq: 17 May 2019 16:41

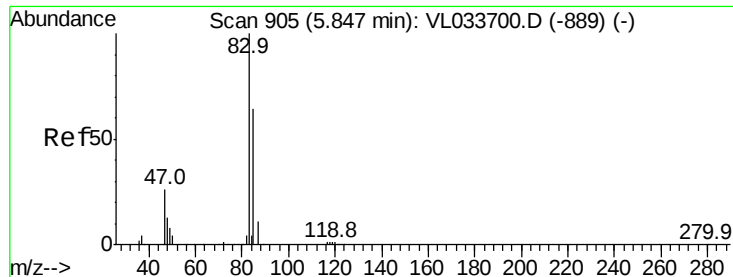
Tgt Ion: 73 Resp: 1878017

Ion Ratio Lower Upper

73 100

57 21.9 17.4 26.2





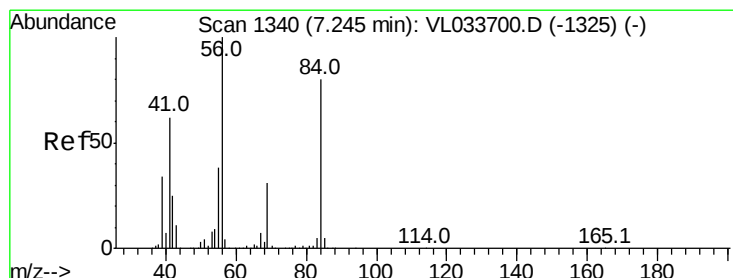
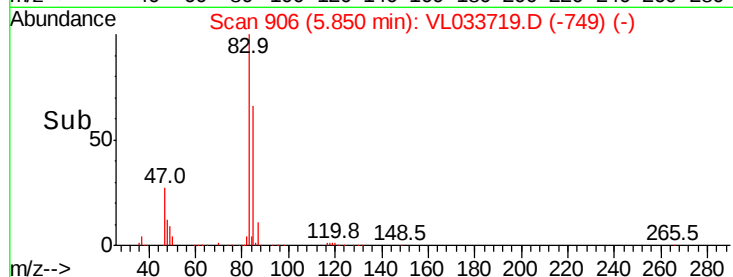
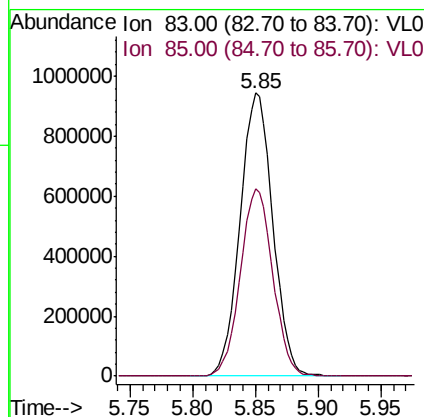
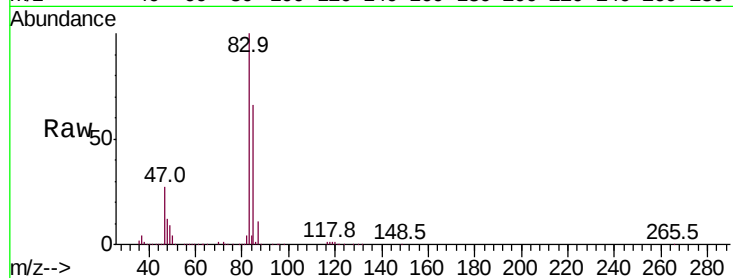
#29
Chloroform
Concen: 8.215 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1713606
Ion Ratio Lower Upper
83 100
85 66.0 51.5 77.3

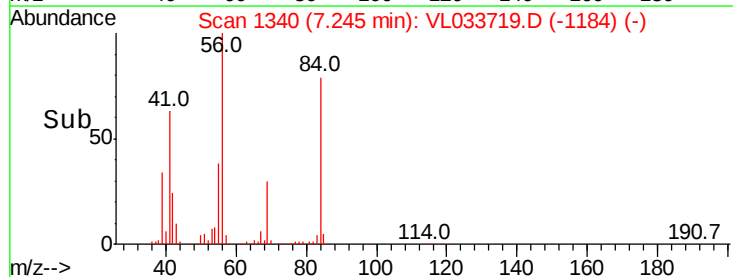
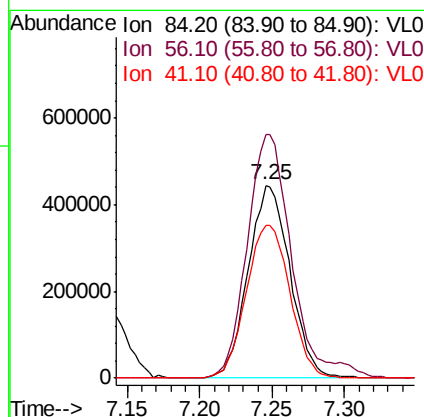
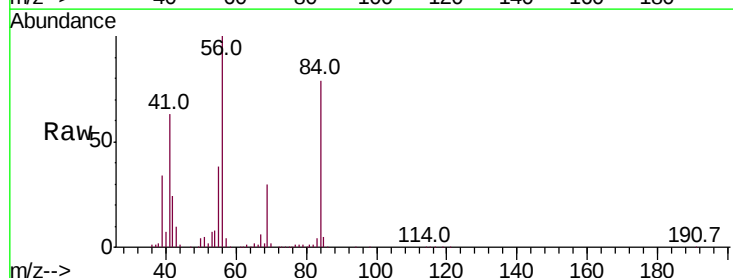
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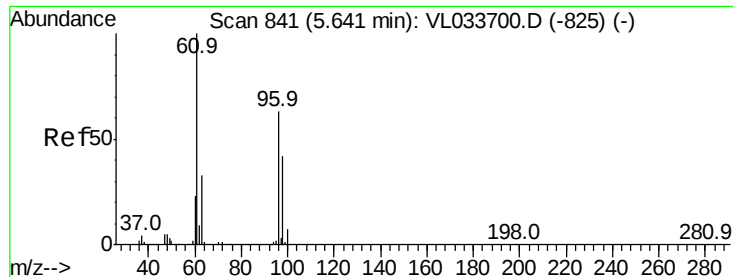
MMDadoda
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#30
Cyclohexane
Concen: 9.373 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 84 Resp: 892288
Ion Ratio Lower Upper
84 100
56 135.0 107.7 161.5
41 82.6 66.0 99.0





#31

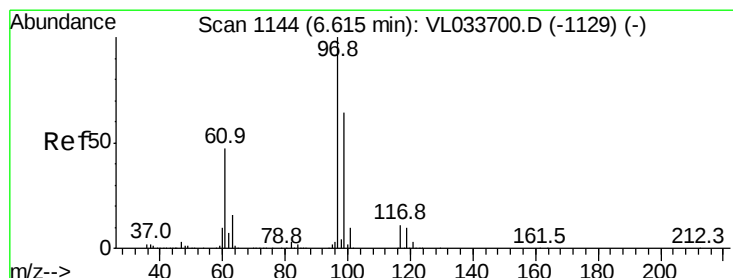
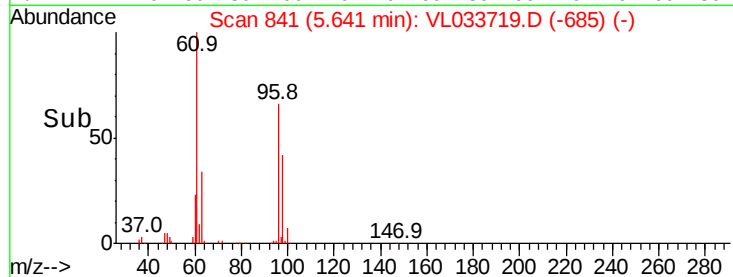
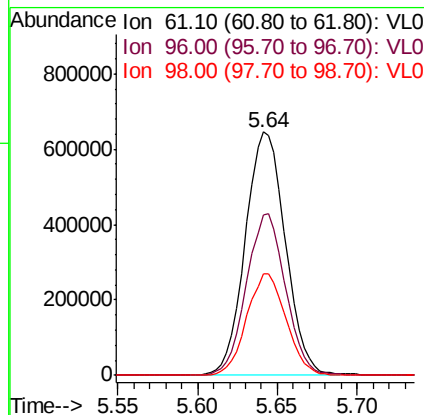
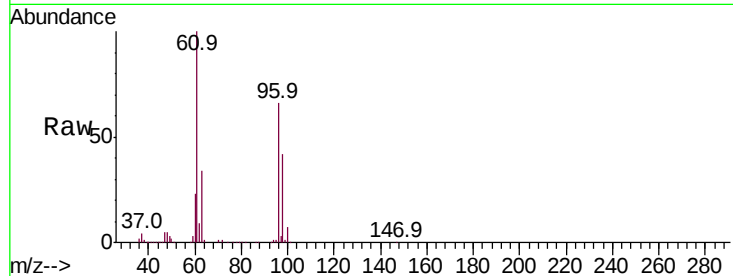
cis-1,2-Dichloroethene
Concen: 9.819 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.8	50.8	76.2
98	41.6	33.3	49.9

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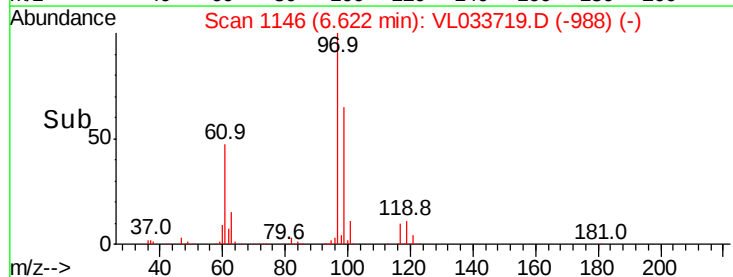
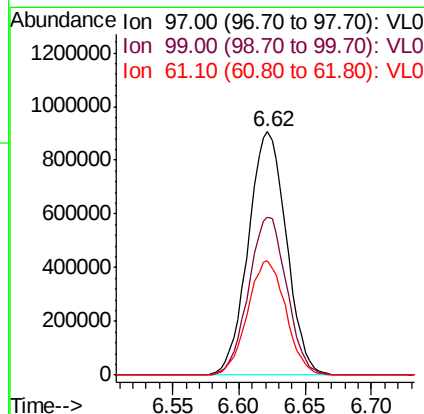
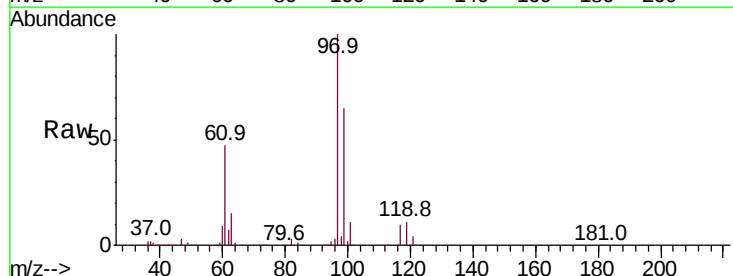
MMDadoda
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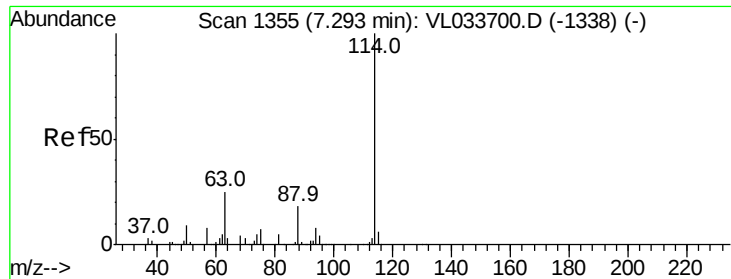


#32

1,1,1-Trichloroethane
Concen: 8.714 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	47.4	37.8	56.8





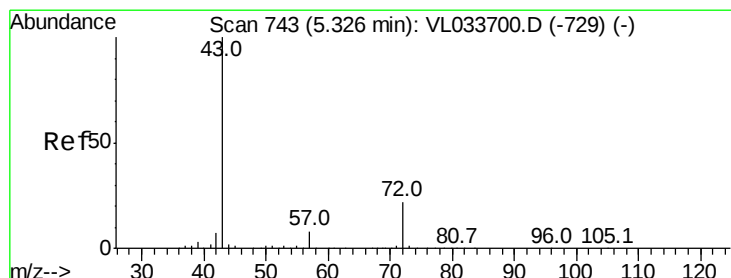
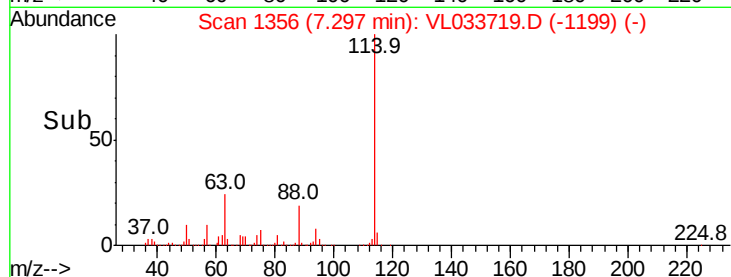
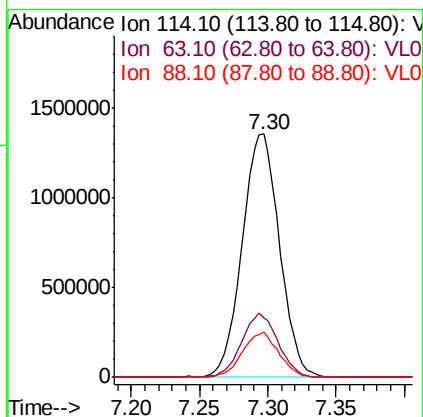
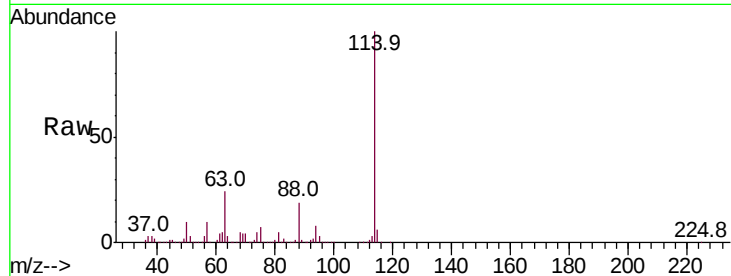
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 2580622
 Ion Ratio Lower Upper
 114 100
 63 26.0 20.9 31.3
 88 17.9 14.3 21.5

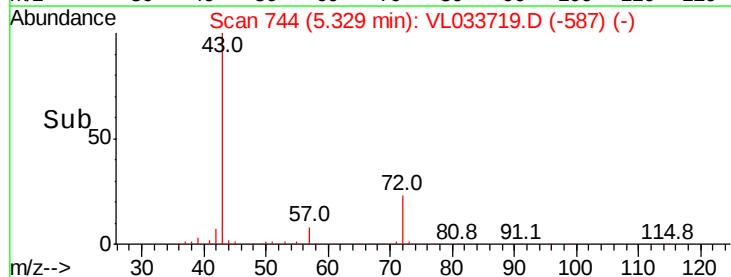
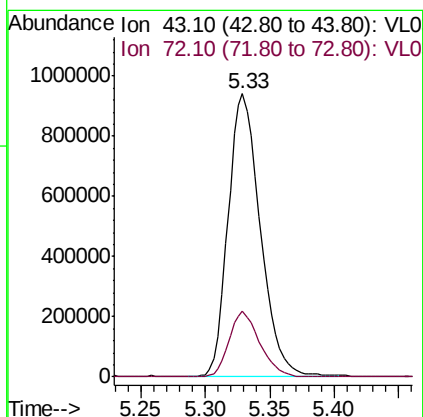
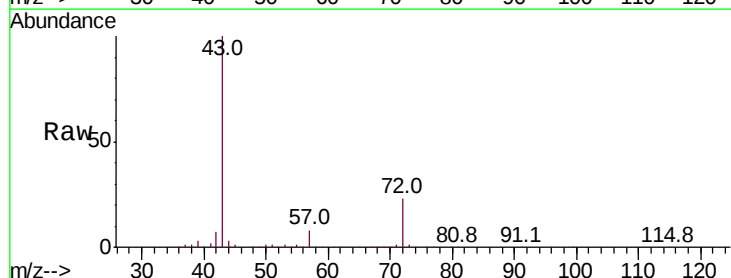
Manual Integrations
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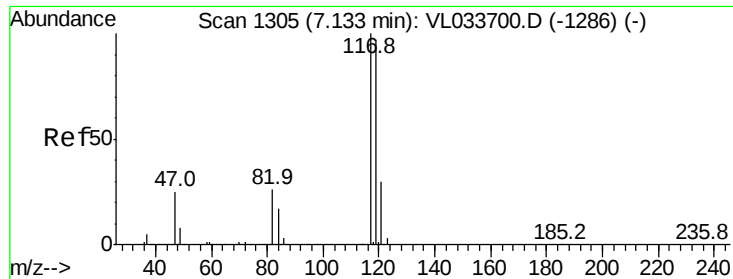
MMDadoda
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#34
 2-Butanone
 Concen: 10.145 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion: 43 Resp: 1622721
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.8 26.6





#35

Carbon Tetrachloride

Concen: 9.323 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1927151

Ion Ratio Lower Upper

117 100

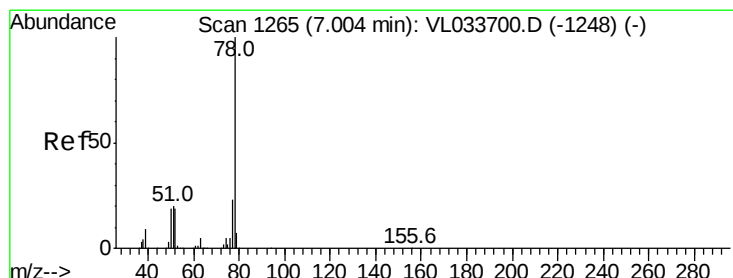
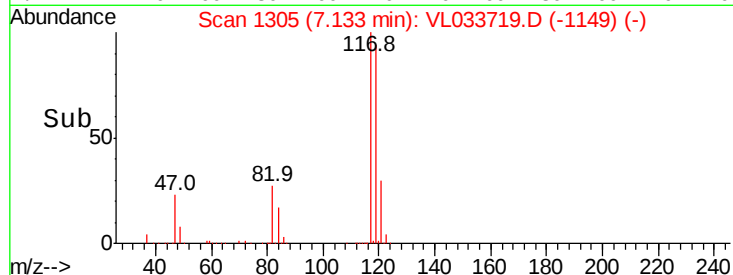
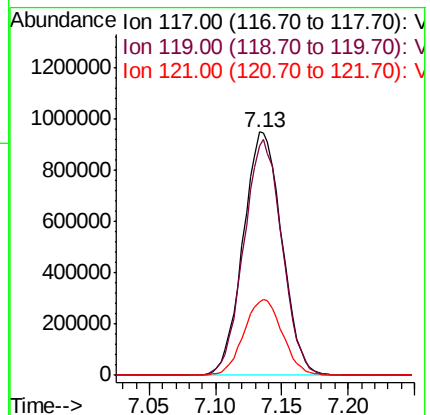
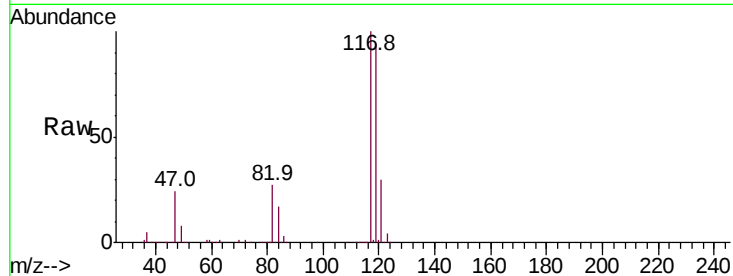
119 94.4 77.2 115.8

121 30.0 24.1 36.1

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#36

Benzene

Concen: 9.331 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

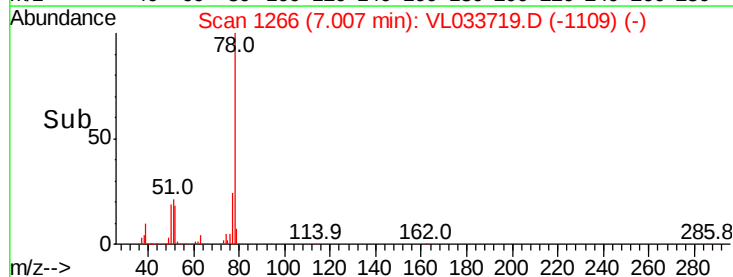
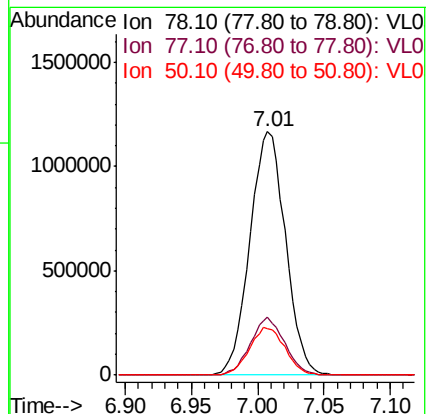
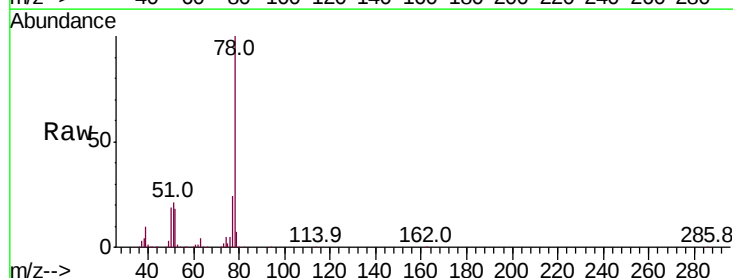
Tgt Ion: 78 Resp: 2190389

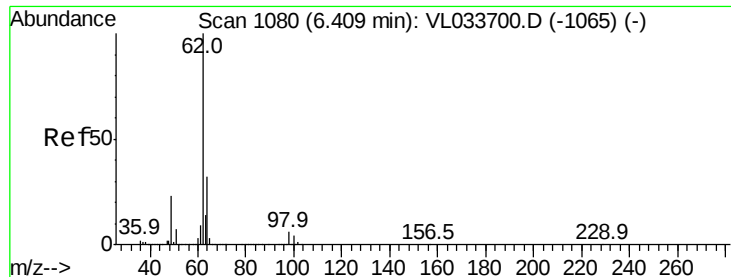
Ion Ratio Lower Upper

78 100

77 24.0 18.4 27.6

50 18.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 8.863 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tot Ion: 62 Resp: 1342170

Ion Ratio Lower Upper

62 100

98 5.5 4.5 6.7

Instrument :

MSVOA_L

ClientSampleId :

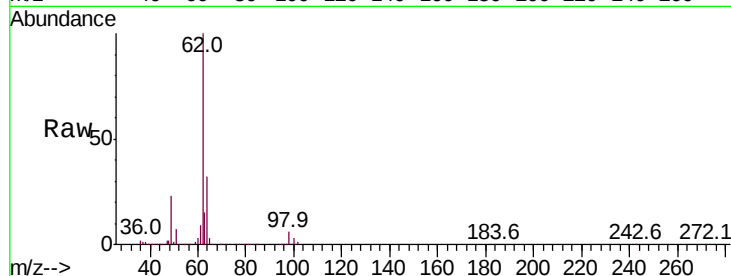
VSTDCCC010EC

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.42

800000

600000

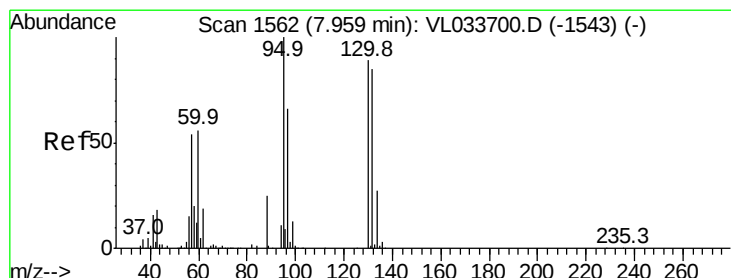
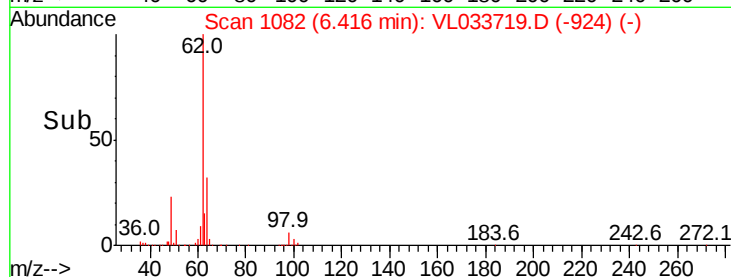
400000

200000

0

6.35 6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 9.999 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion:130 Resp: 871014

Ion Ratio Lower Upper

130 100

95 113.9 90.2 135.4

132 93.5 76.4 114.6

97 72.1 59.8 89.6

Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

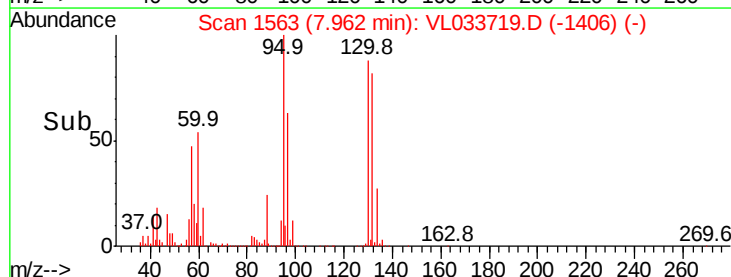
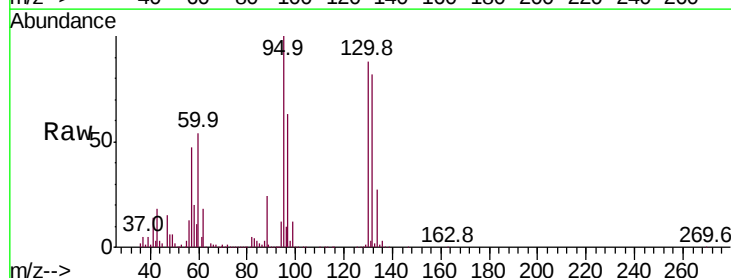
400000

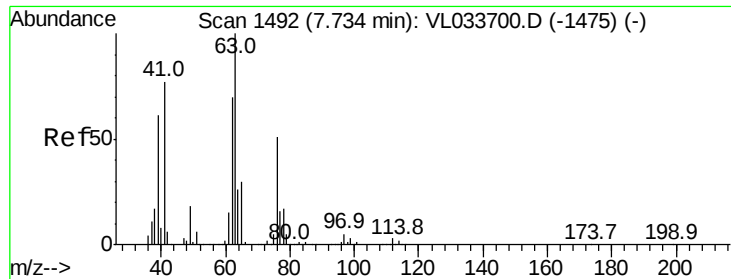
200000

0

7.85 7.90 7.95 8.00 8.05

Time-->





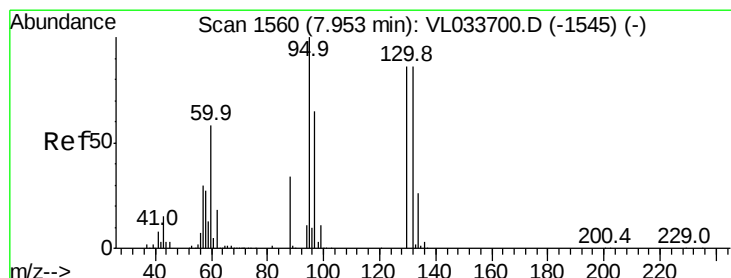
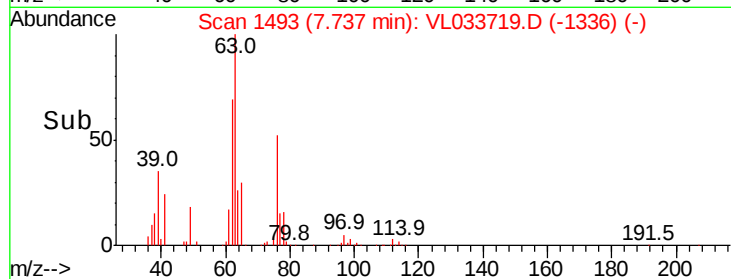
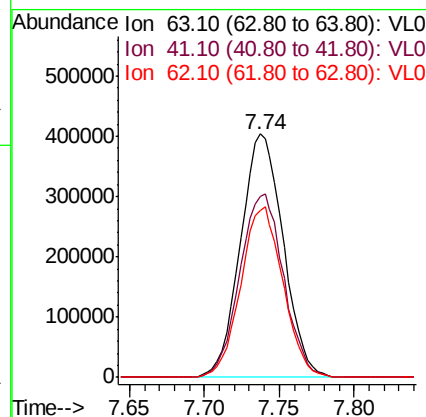
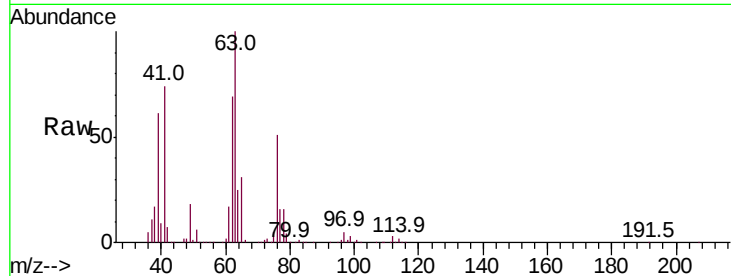
#39
 1,2-Dichloropropane
 Concen: 9.153 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.0	61.5	92.3
62	68.6	56.2	84.4

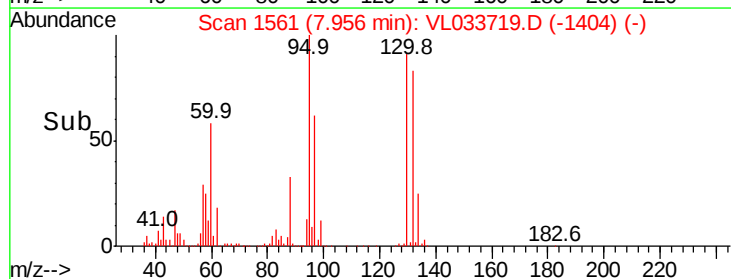
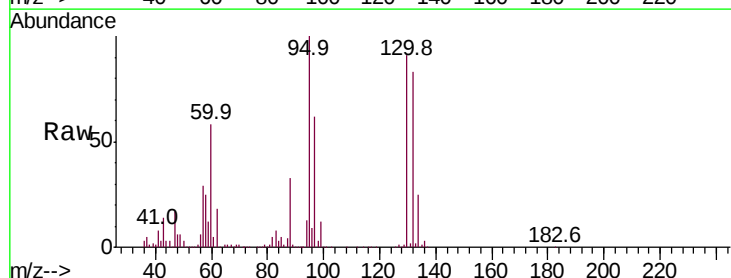
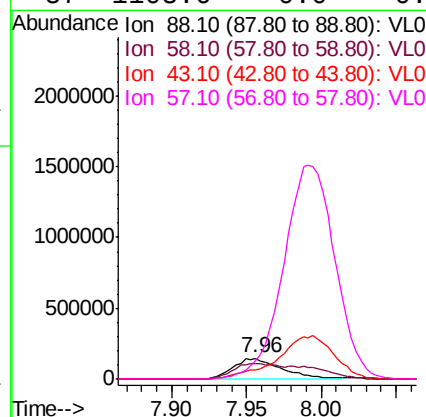
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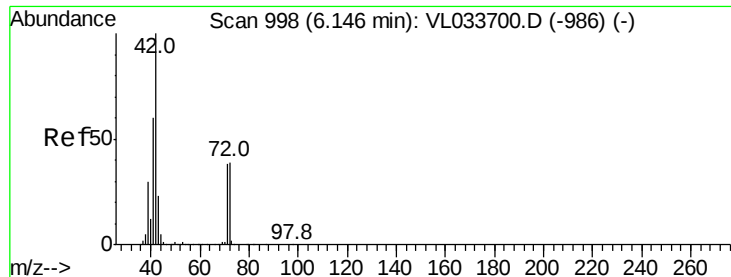
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#40
 1,4-Dioxane
 Concen: 8.868 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.2	101.8	152.6
43	246.1	0.0	0.0#
57	1108.6	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.609 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

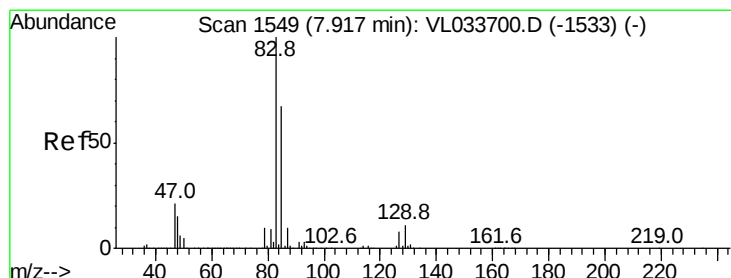
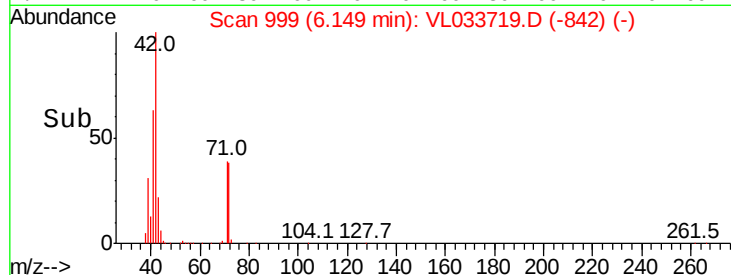
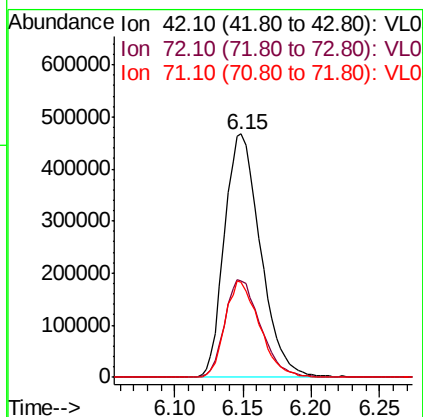
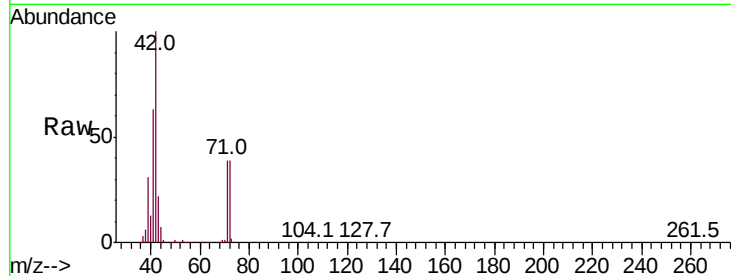
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	861165
Ion Ratio	Lower	Upper	
42	100		
72	39.8	32.0	48.0
71	38.1	30.4	45.6

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#42

Bromodichloromethane

Concen: 9.213 ppbv

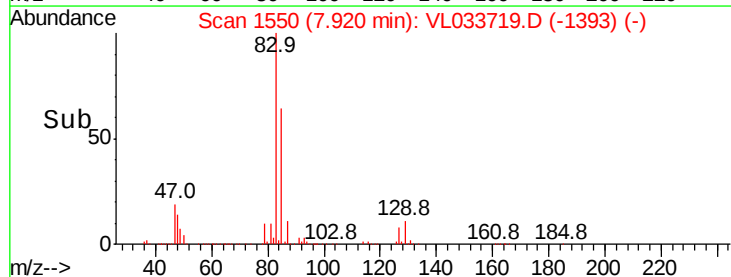
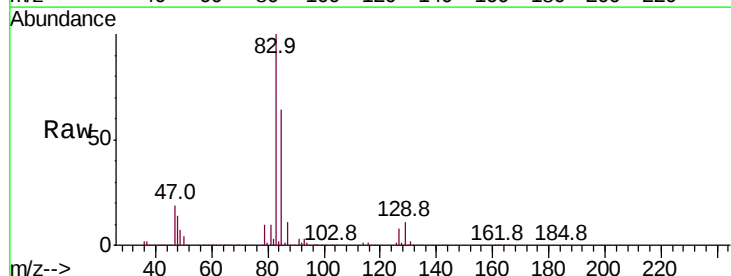
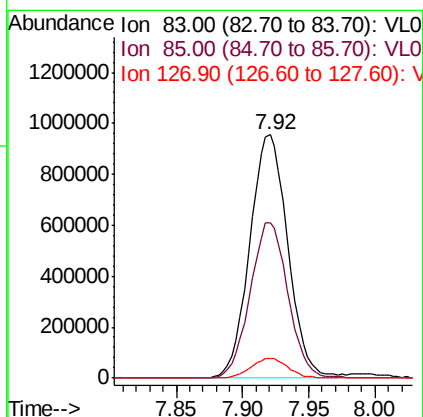
RT: 7.92 min Scan# 1550

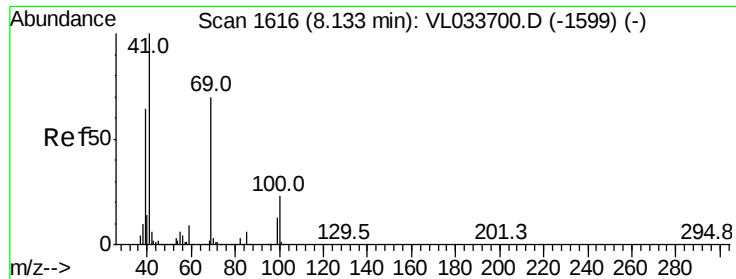
Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion:	83	Resp:	1909892
Ion Ratio	Lower	Upper	
83	100		
85	63.8	53.3	79.9
127	8.1	6.5	9.7





#43

Methyl Methacrylate

Concen: 10.153 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

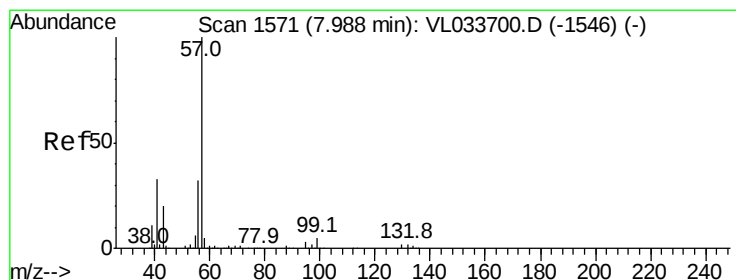
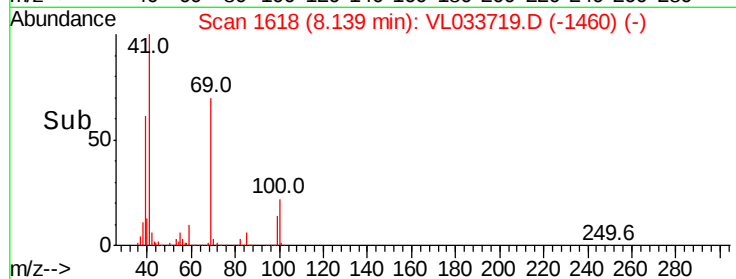
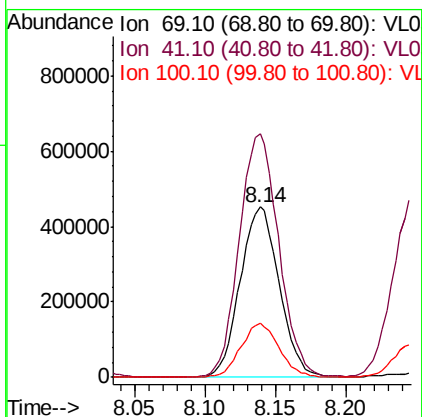
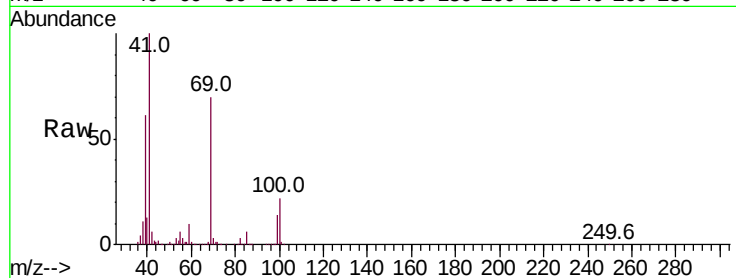
Instrument :
MSVOA_L

ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.2	116.3	174.5
100	31.1	25.3	37.9

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 9.044 ppbv

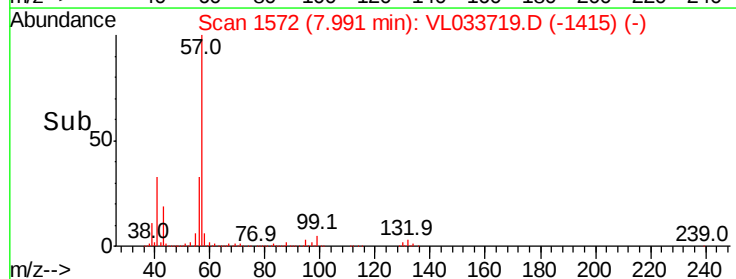
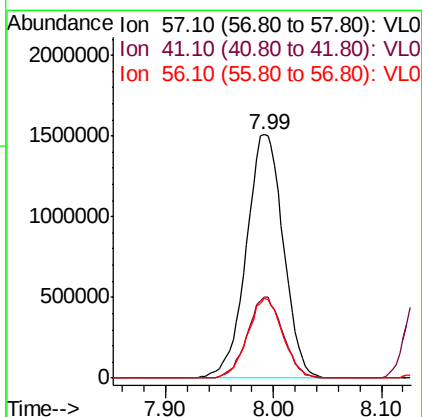
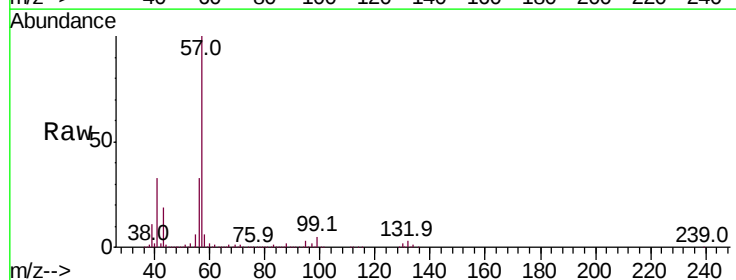
RT: 7.99 min Scan# 1572

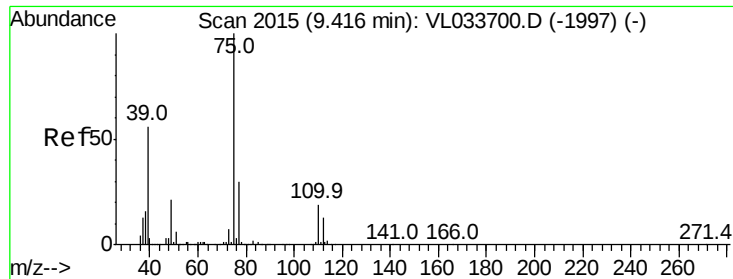
Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.1	25.4	38.0
56	31.0	24.7	37.1





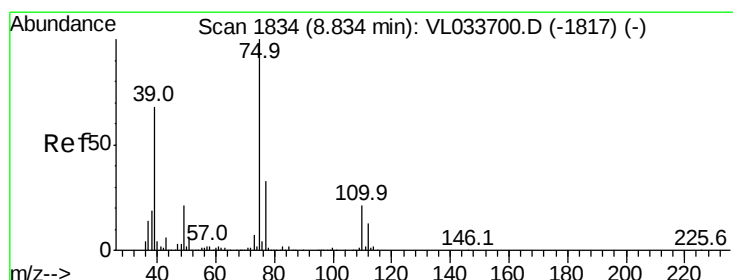
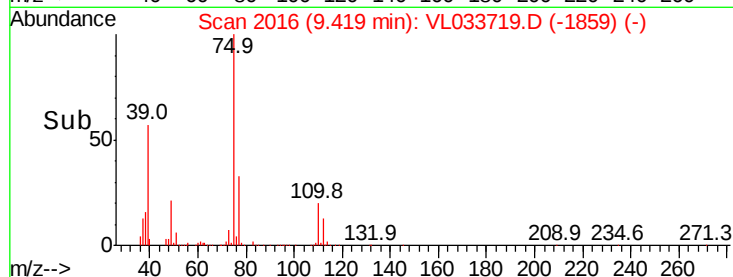
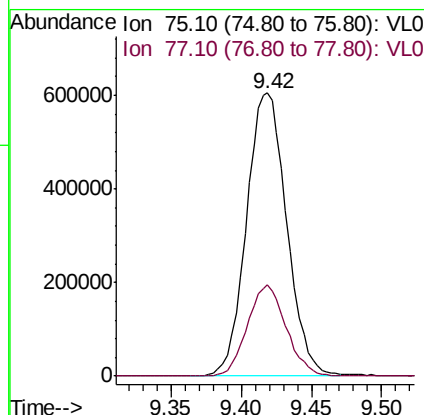
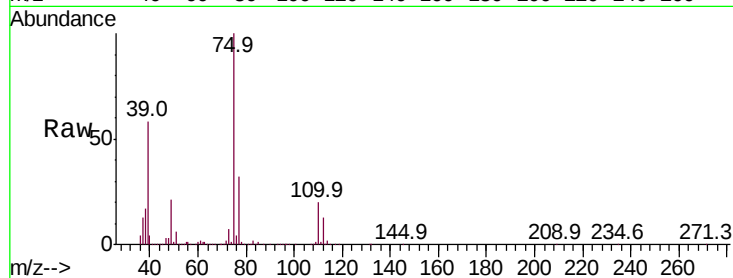
#45
t-1,3-Dichloropropene
Concen: 11.002 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1204992
Ion Ratio Lower Upper
75 100
77 32.5 24.4 36.6

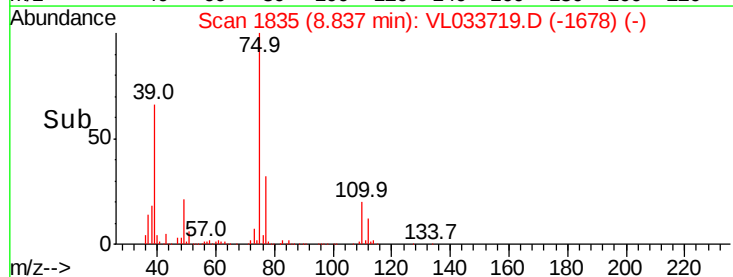
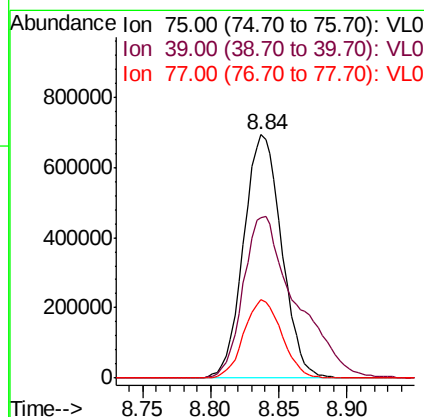
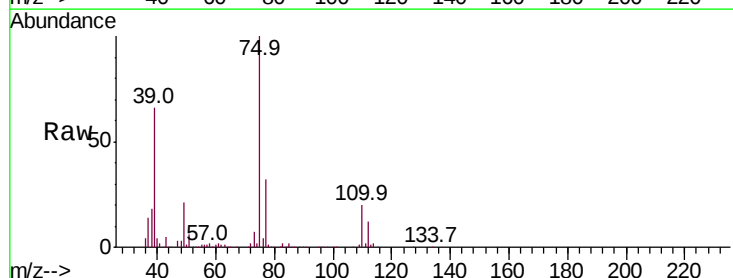
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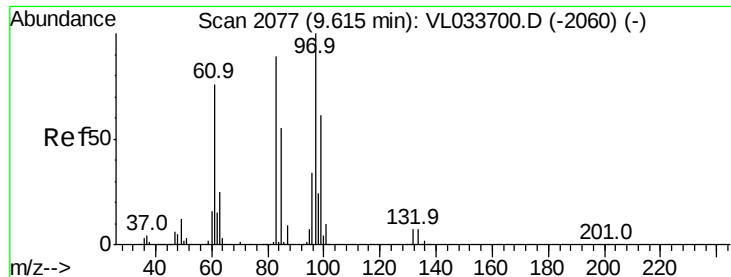
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#46
cis-1,3-Dichloropropene
Concen: 10.457 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 75 Resp: 1341078
Ion Ratio Lower Upper
75 100
39 66.0 54.4 81.6
77 32.3 26.6 39.8





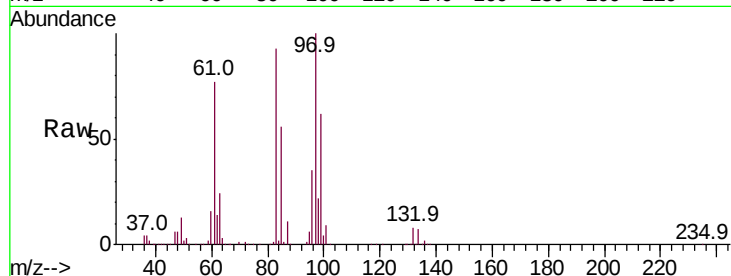
#47
 1,1,2-Trichloroethane
 Concen: 9.163 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.2	70.8	106.2
85	56.0	43.7	65.5
99	61.9	48.7	73.1

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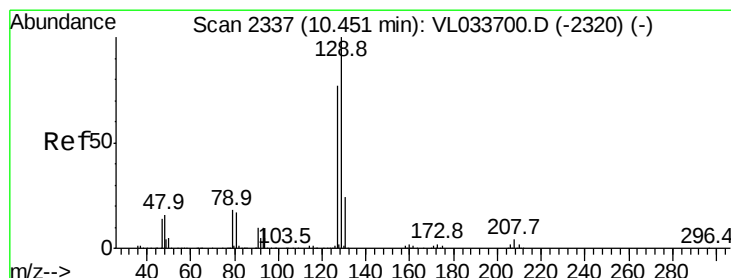
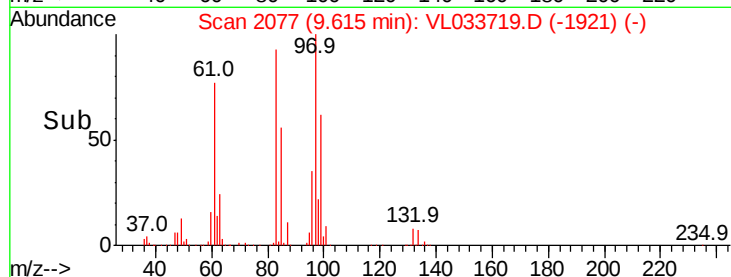
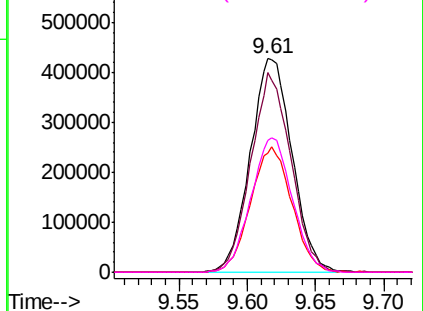
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

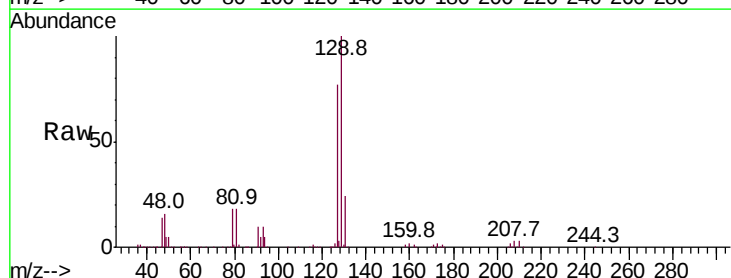
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 9.825 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

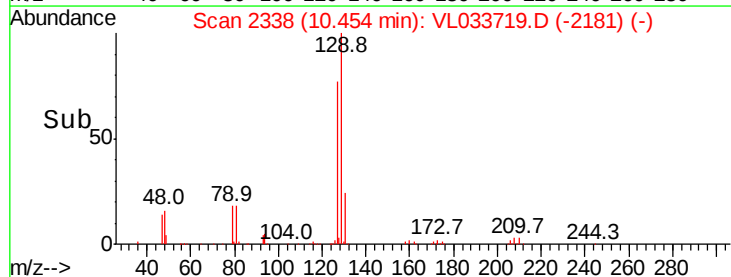
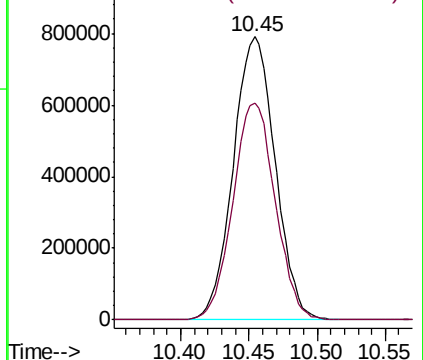
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	116.0

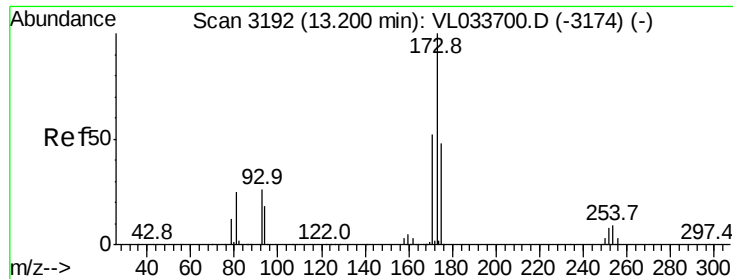


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.278 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1489899

Ion Ratio Lower Upper

173 100

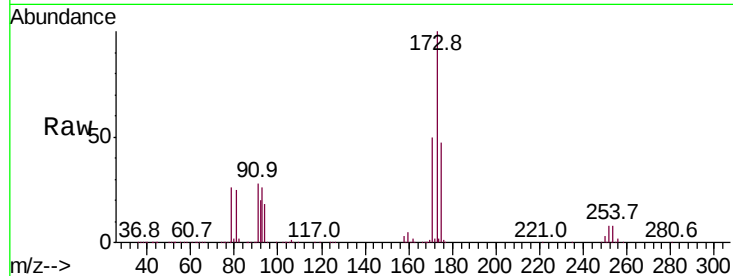
175 48.3 38.6 58.0

171 51.3 41.5 62.3

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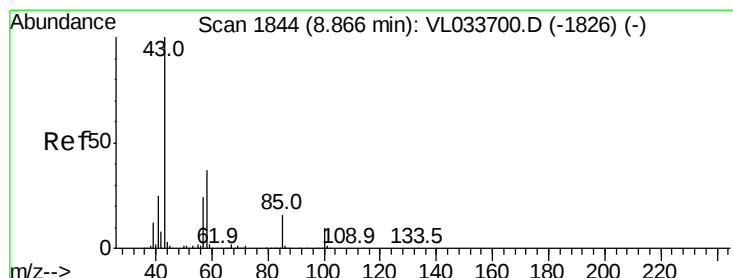
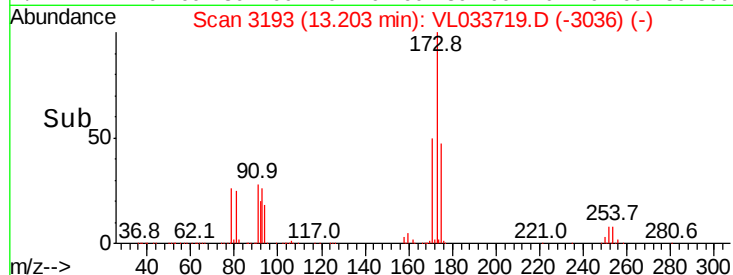
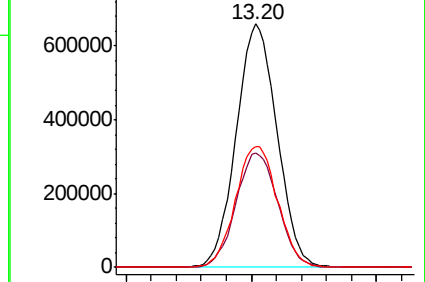
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.482 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033719.D

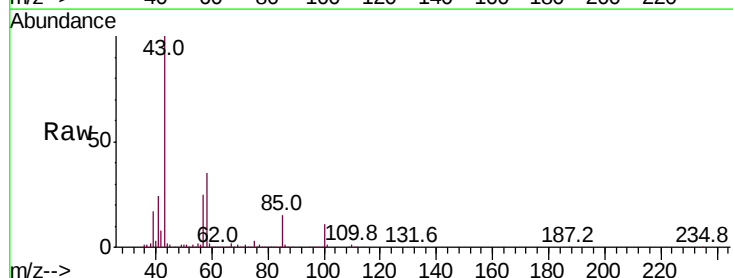
Acq: 17 May 2019 16:41

Tgt Ion: 43 Resp: 2332857

Ion Ratio Lower Upper

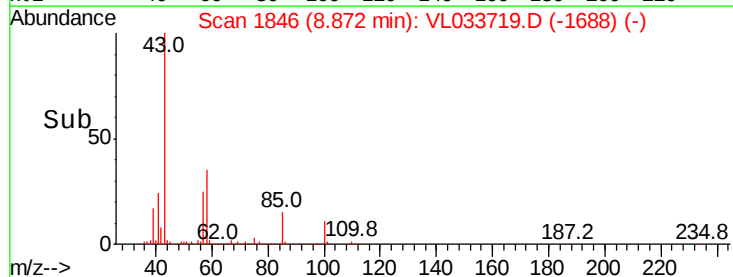
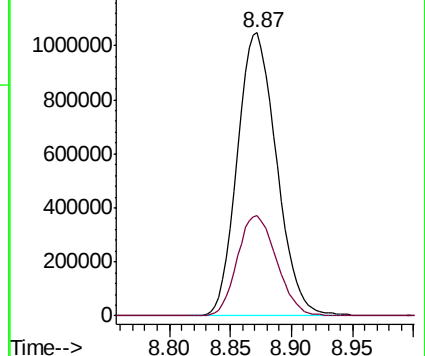
43 100

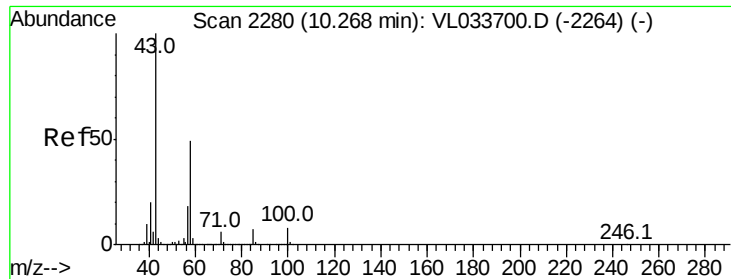
58 35.7 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





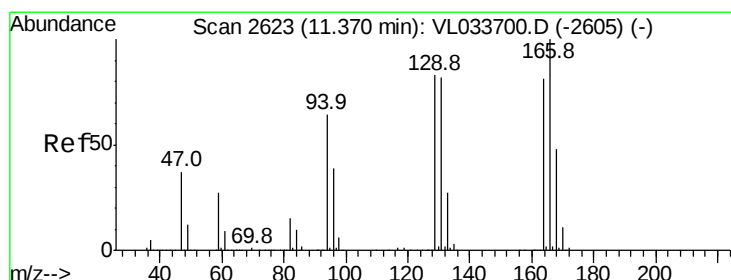
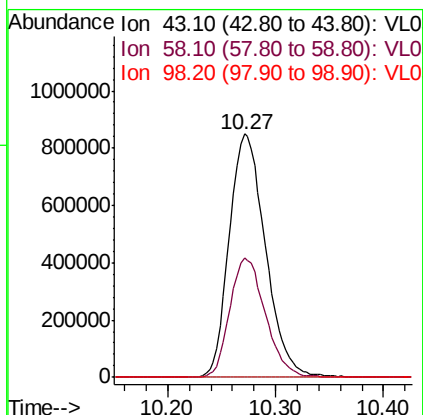
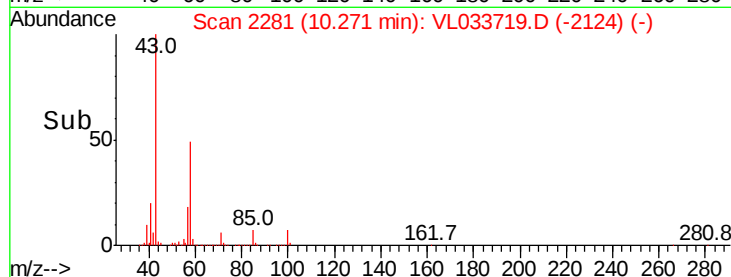
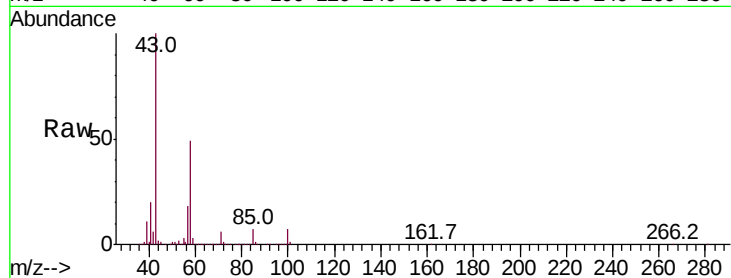
#51
2-Hexanone
Concen: 10.315 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1980689
Ion Ratio Lower Upper
43 100
58 48.2 38.7 58.1
98 0.2 0.2 0.4#

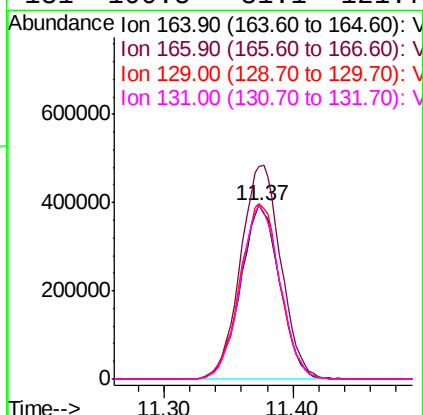
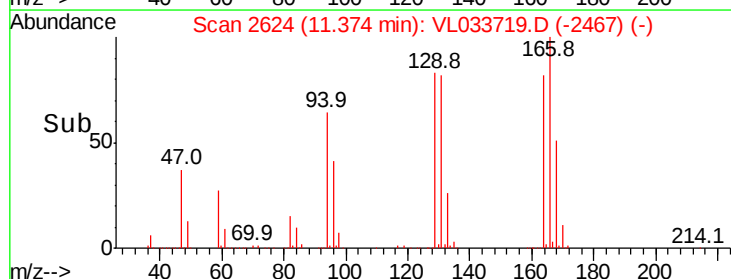
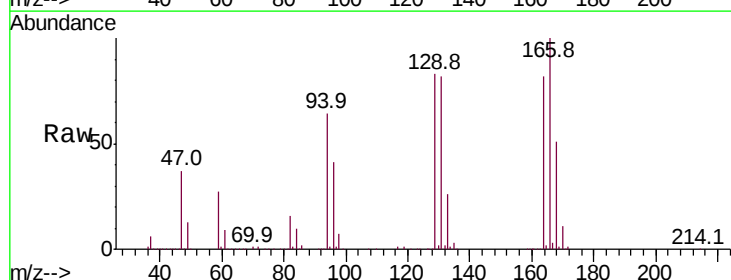
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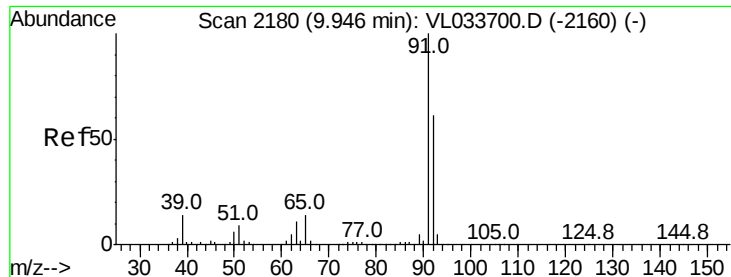
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#52
Tetrachloroethene
Concen: 10.078 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 164 Resp: 831663
Ion Ratio Lower Upper
164 100
166 122.2 98.9 148.3
129 101.1 81.8 122.6
131 100.5 81.1 121.7





#53

Toluene

Concen: 10.173 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2575701

Ion Ratio Lower Upper

91 100

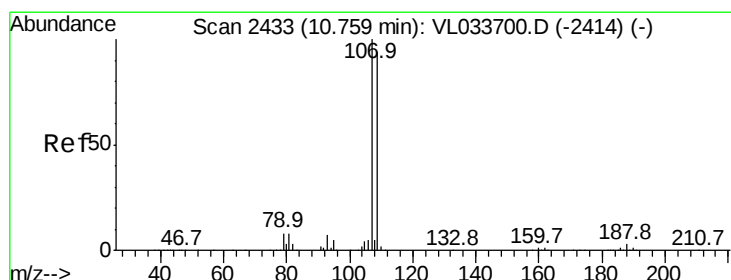
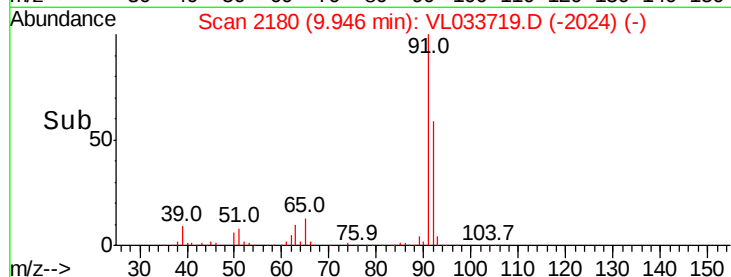
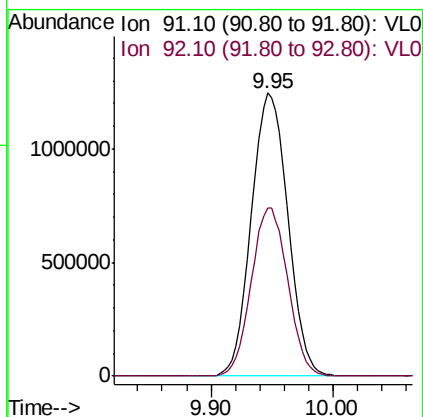
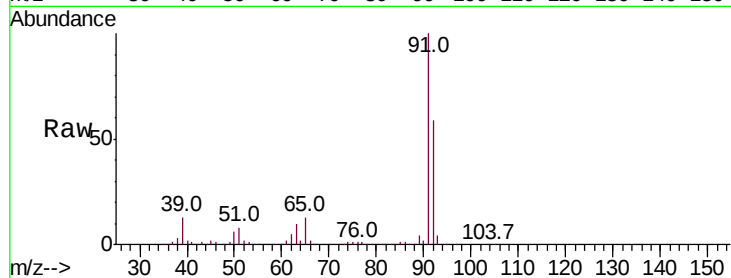
92 59.5 47.6 71.4

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#54

1,2-Dibromoethane

Concen: 9.488 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033719.D

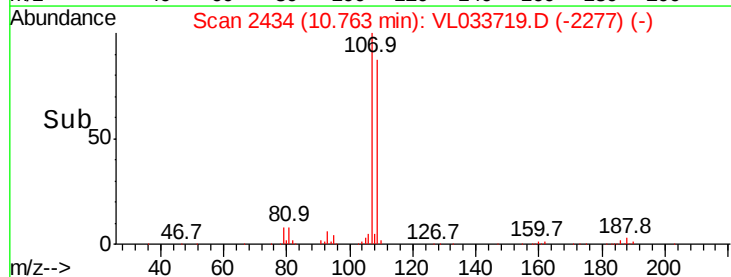
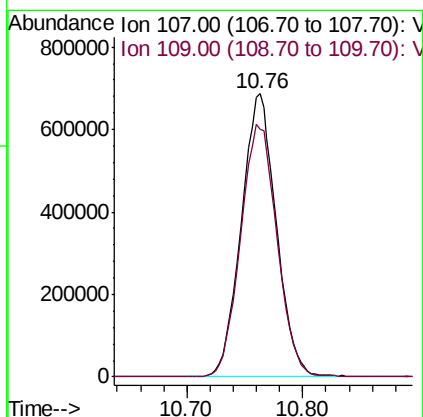
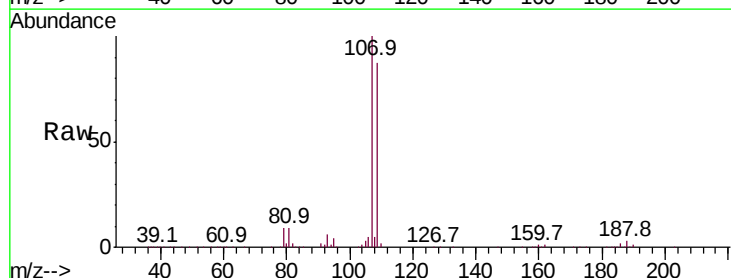
Acq: 17 May 2019 16:41

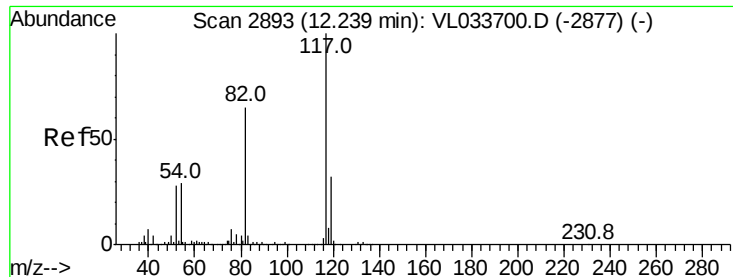
Tgt Ion: 107 Resp: 1439686

Ion Ratio Lower Upper

107 100

109 87.4 75.2 112.8





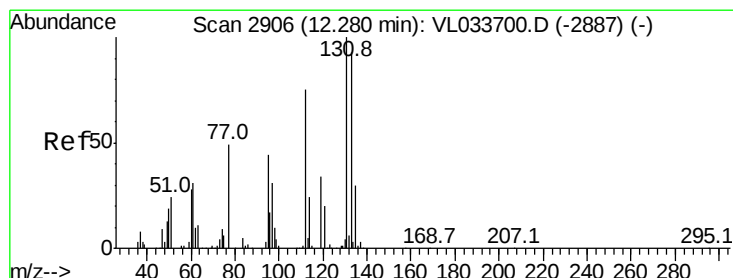
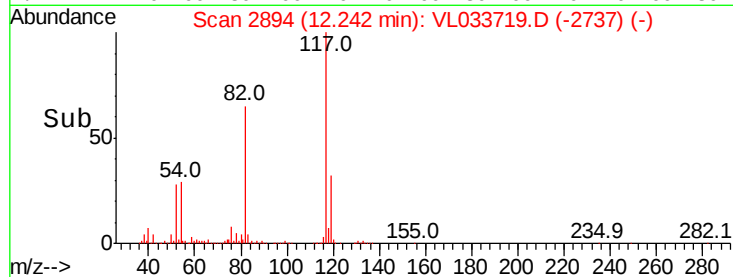
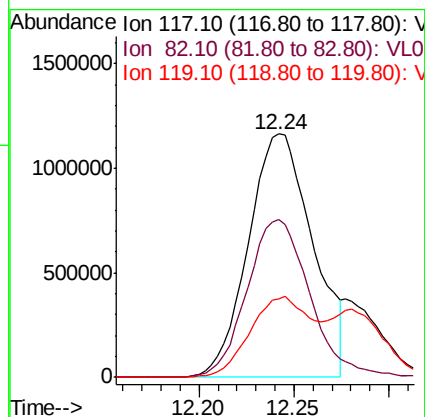
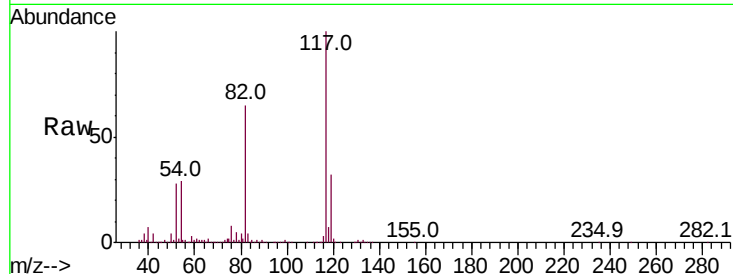
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2749279
Ion Ratio Lower Upper
117 100
82 63.5 49.4 74.0
119 31.7 24.9 37.3

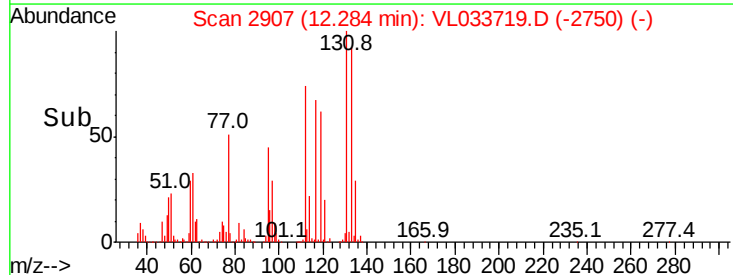
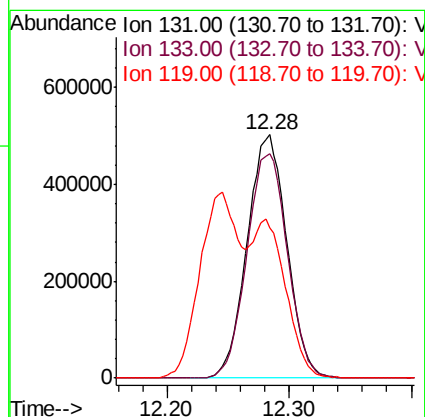
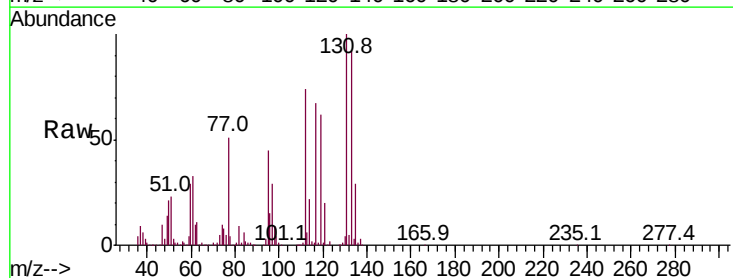
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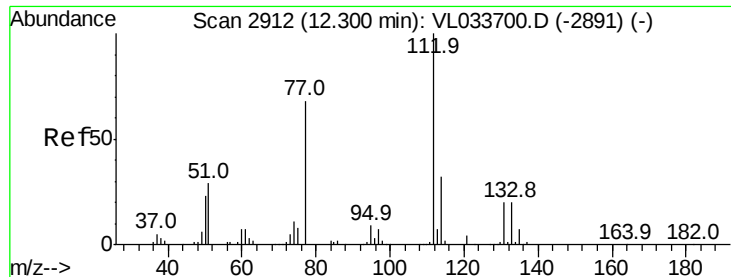
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.841 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion:131 Resp: 1124807
Ion Ratio Lower Upper
131 100
133 94.7 76.6 114.8
119 57.2 49.0 73.4





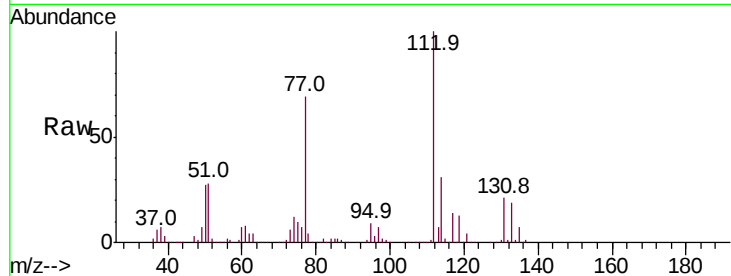
#57
Chlorobenzene
Concen: 8.721 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

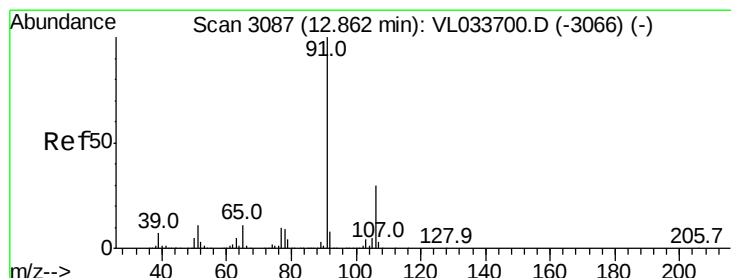
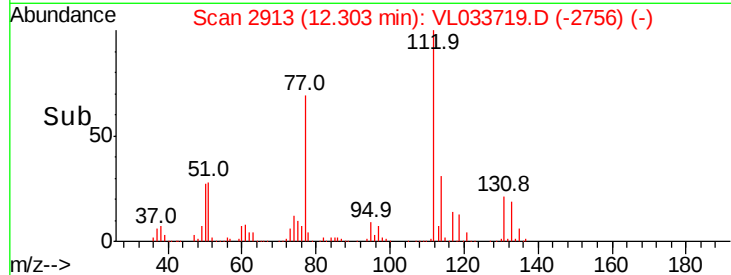
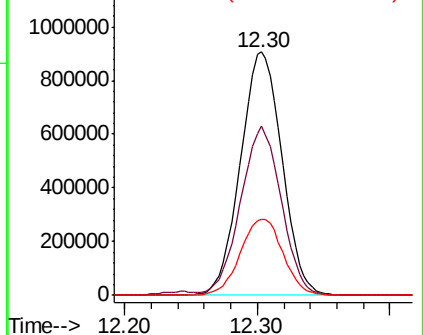
Tot Ion: 112 Resp: 1973589
Ion Ratio Lower Upper
112 100
77 69.2 55.4 83.0
114 31.1 29.3 35.8

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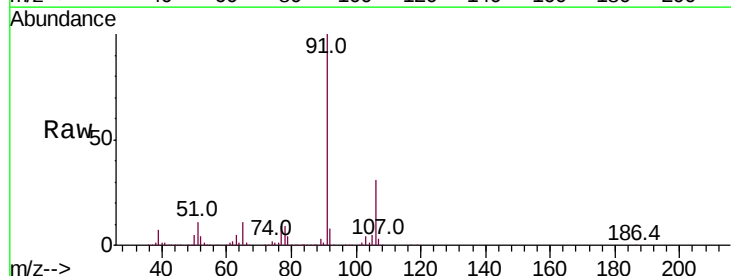


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

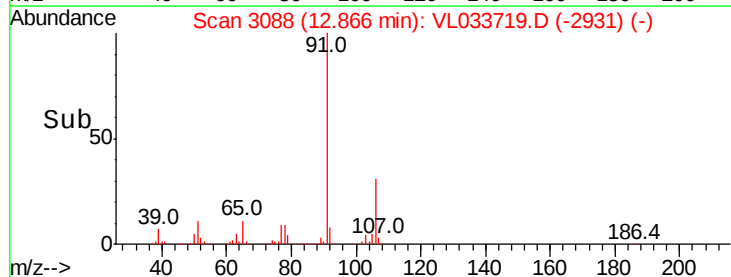
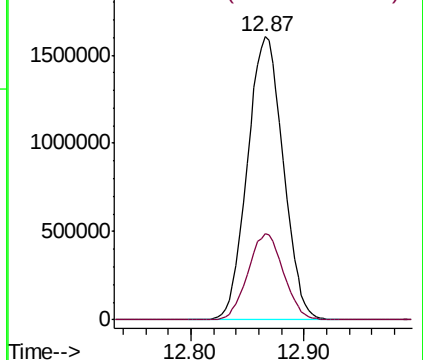


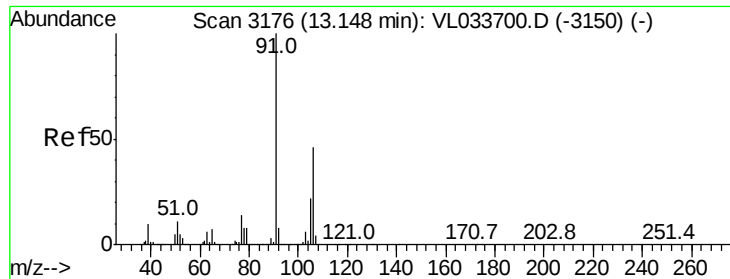
#58
Ethyl Benzene
Concen: 9.700 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 91 Resp: 3531380
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





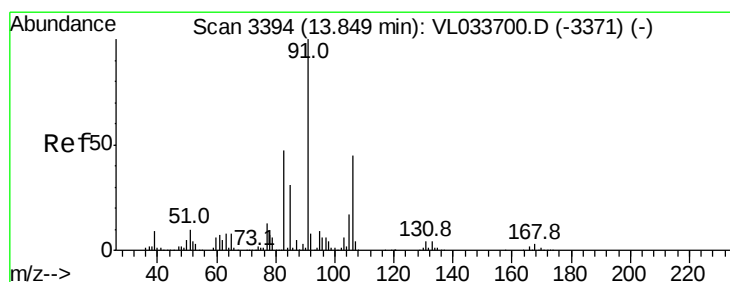
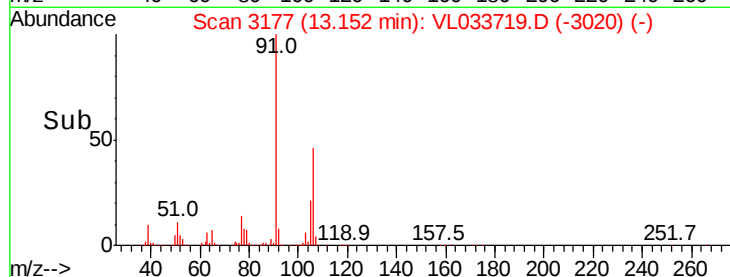
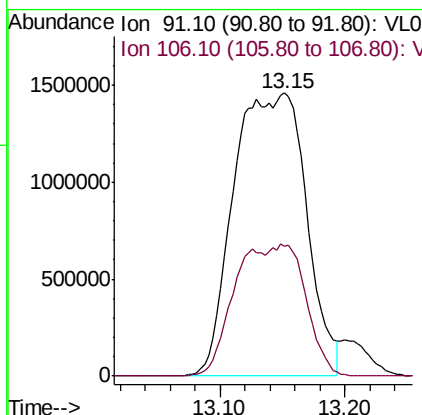
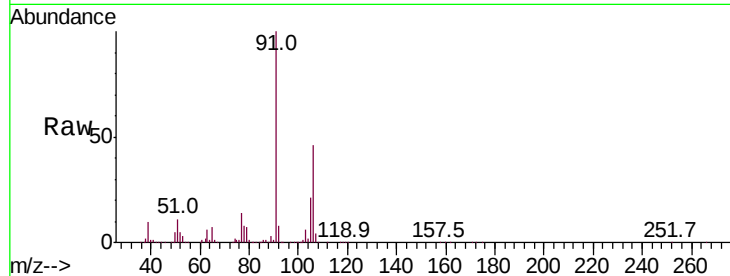
#59
m/p-Xylene
Concen: 18.462 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5875499
Ion Ratio Lower Upper
91 100
106 45.3 35.8 53.6

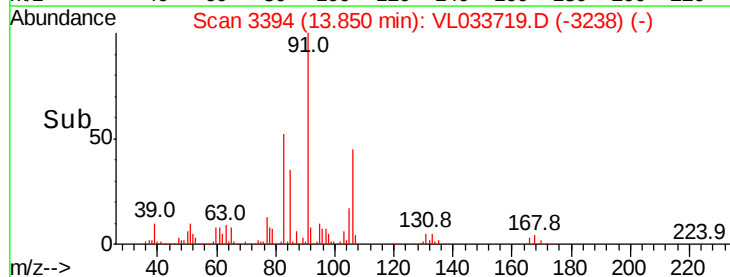
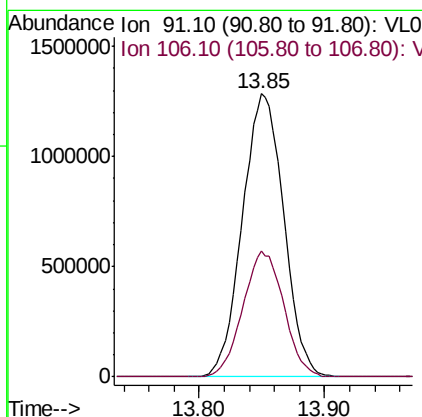
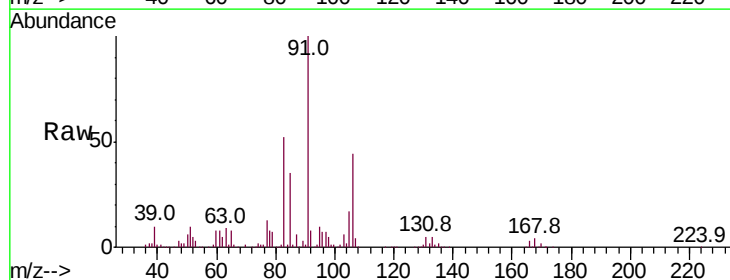
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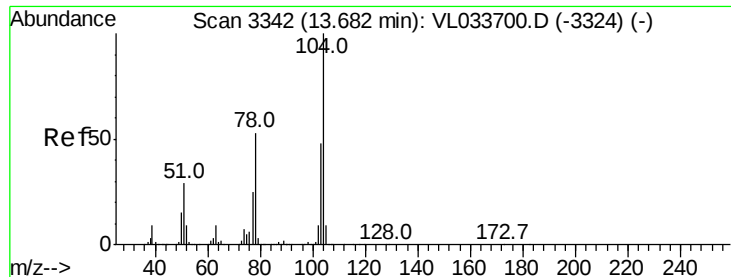
MMDadoda
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#60
o-Xylene
Concen: 9.154 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033719.D
Acq: 17 May 2019 16:41

Tgt Ion: 91 Resp: 2936943
Ion Ratio Lower Upper
91 100
106 43.9 21.6 64.8





#61

Stvrene

Concen: 10.413 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2249268

Ion Ratio Lower Upper

104 100

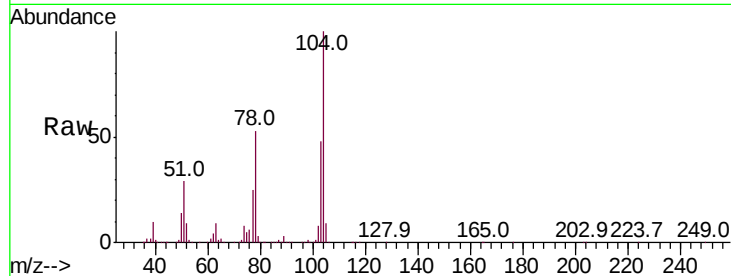
78 53.0 42.6 64.0

103 47.2 37.8 56.6

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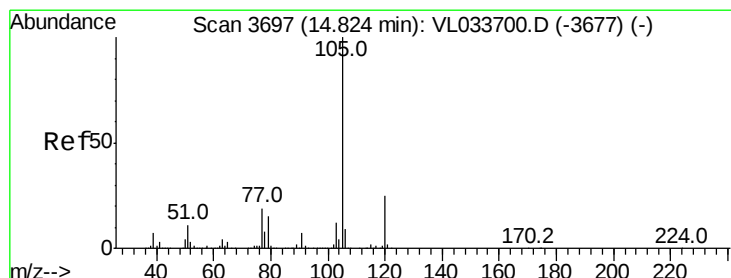
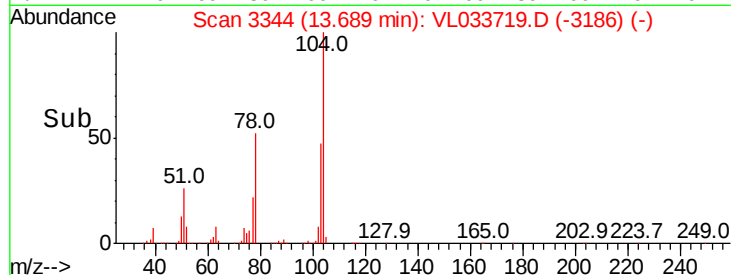
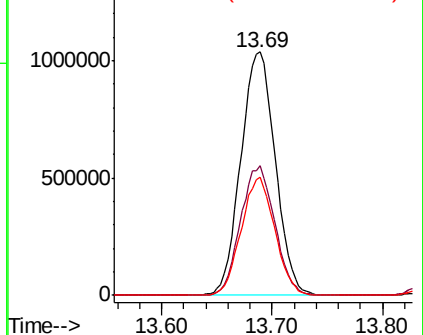
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.281 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL033719.D

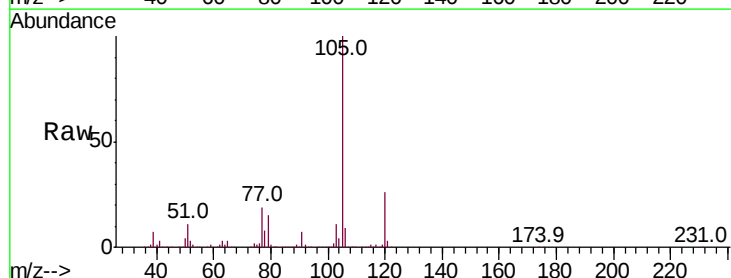
Acq: 17 May 2019 16:41

Tgt Ion:105 Resp: 4009695

Ion Ratio Lower Upper

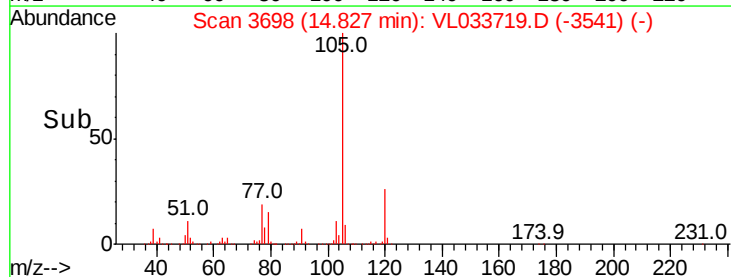
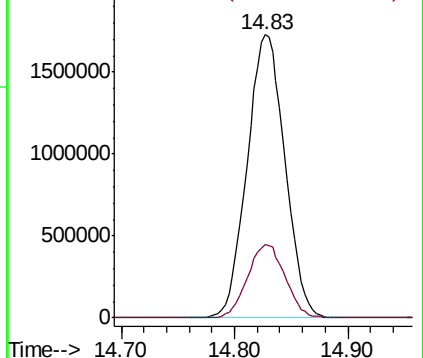
105 100

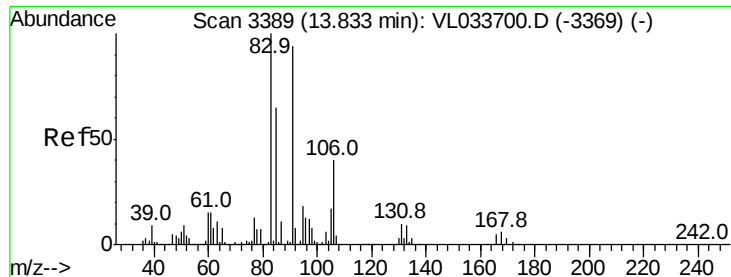
120 25.8 20.1 30.1



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: 8.658 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2019991

Ion Ratio Lower Upper

83 100

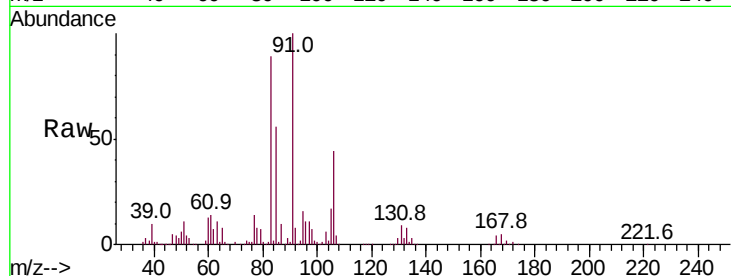
131 9.4 4.8 14.3

85 64.7 32.3 96.9

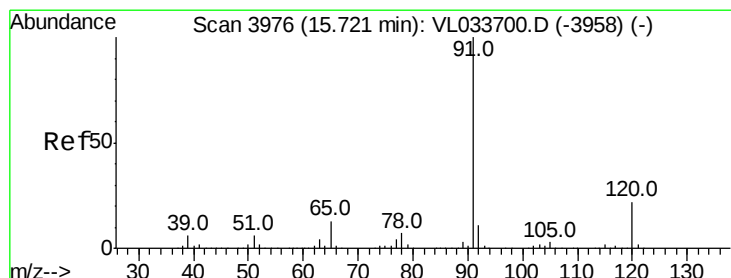
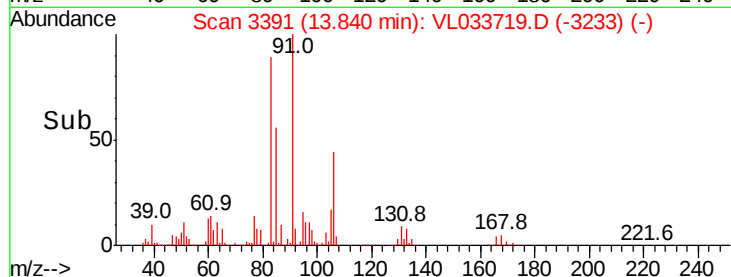
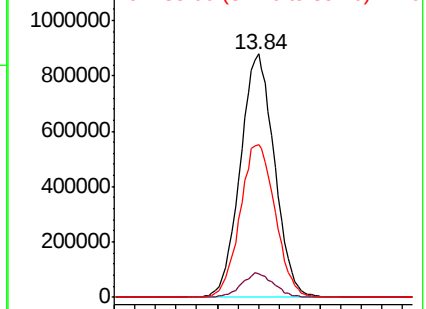
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.252 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL033719.D

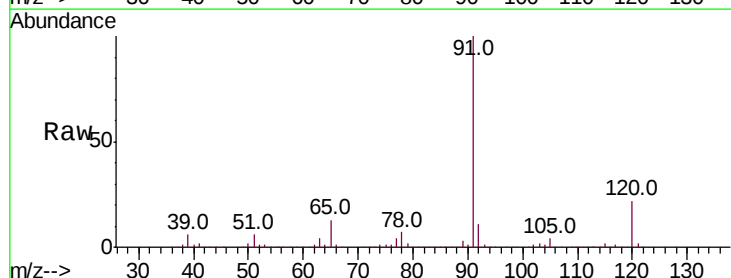
Acq: 17 May 2019 16:41

Tgt Ion:120 Resp: 1033974

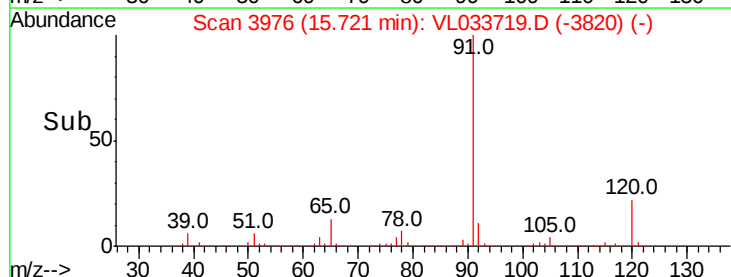
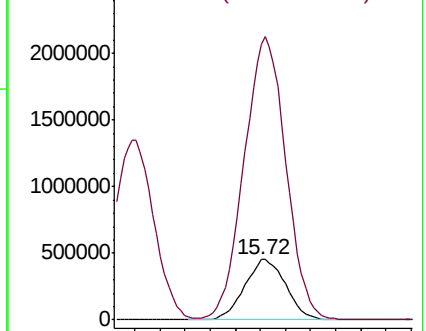
Ion Ratio Lower Upper

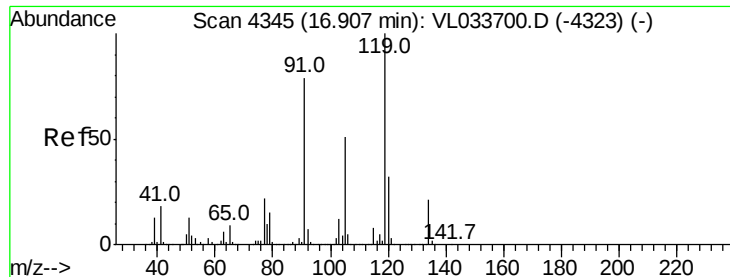
120 100

91 476.5 379.1 568.7



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.007 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3552826

Ion Ratio Lower Upper

119 100

91 82.9 65.3 97.9

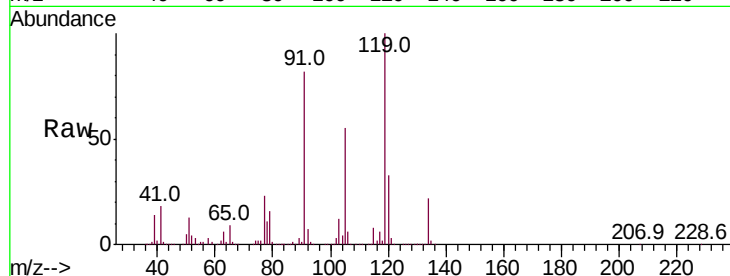
134 19.6 15.7 23.5

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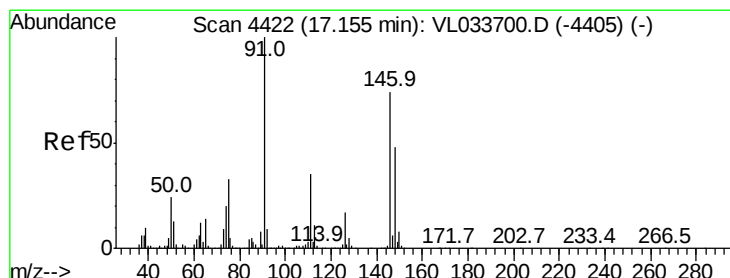
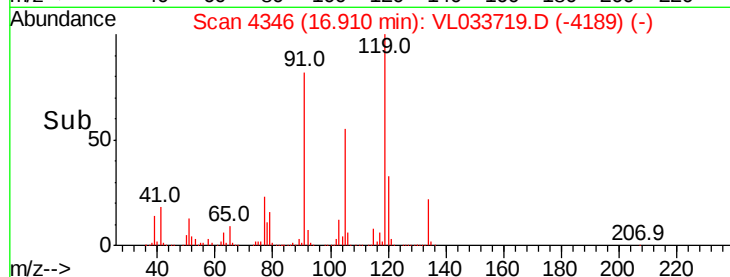
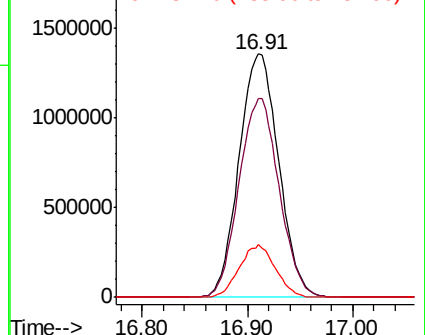
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.063 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

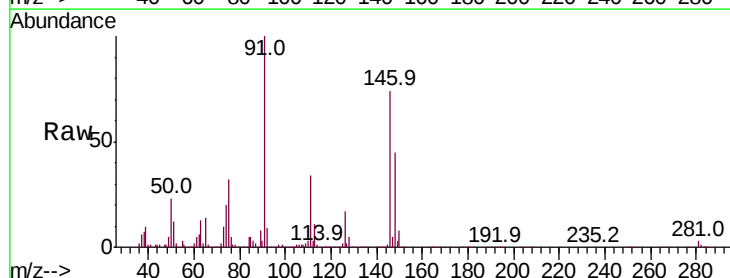
Tgt Ion: 91 Resp: 2078513

Ion Ratio Lower Upper

91 100

126 17.2 13.5 20.3

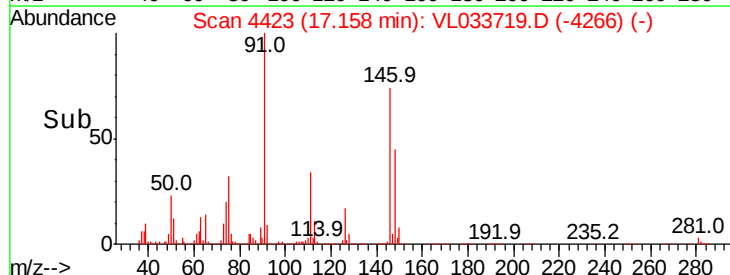
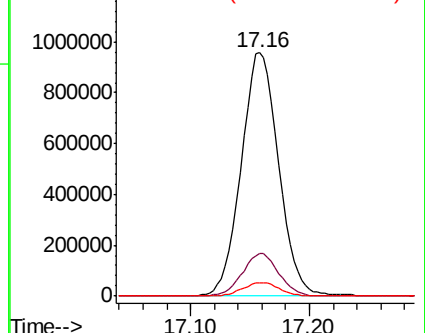
128 5.4 4.3 6.5

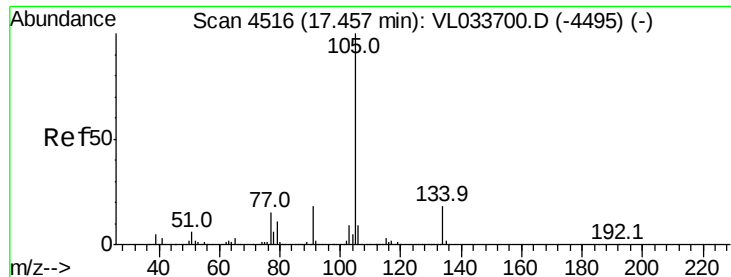


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.027 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4984278

Ion Ratio Lower Upper

105 100

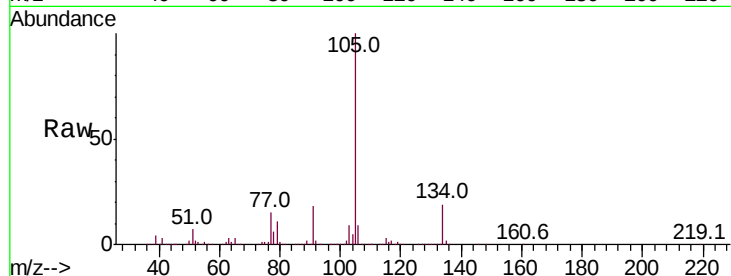
134 18.3 14.6 22.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

2000000

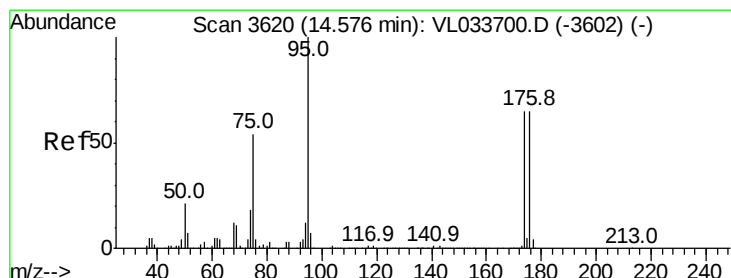
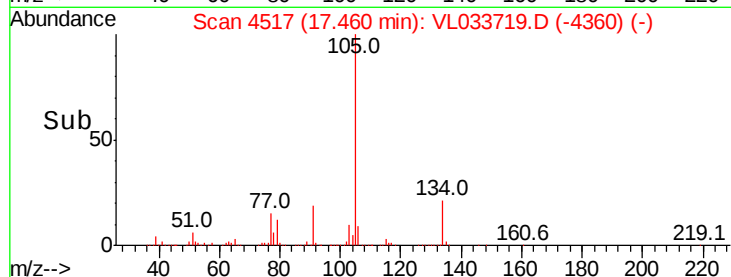
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.835 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

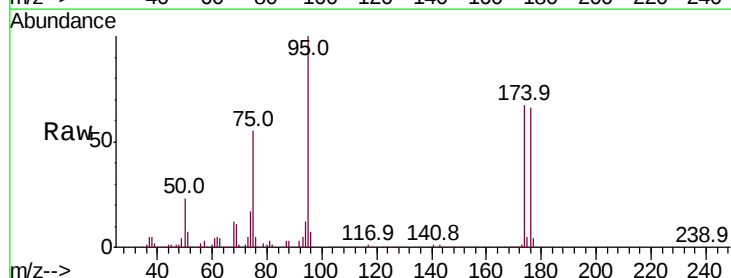
Tgt Ion: 95 Resp: 2192112

Ion Ratio Lower Upper

95 100

174 66.9 53.9 80.9

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

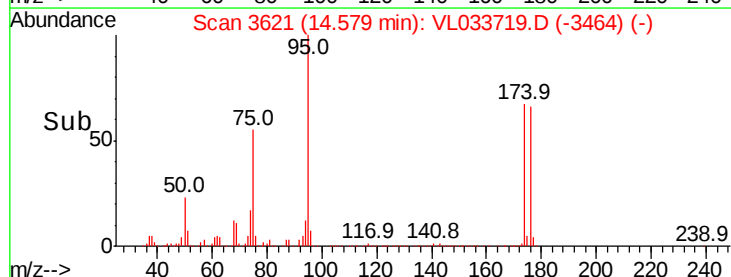
600000

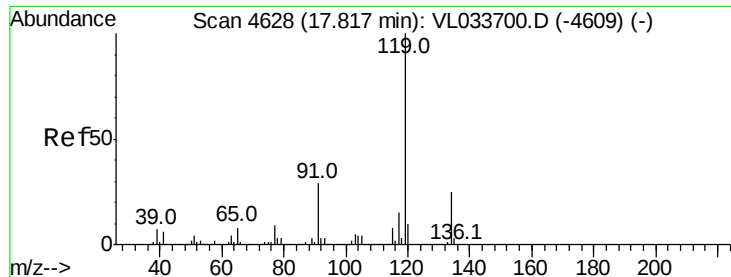
400000

200000

0

Time-->





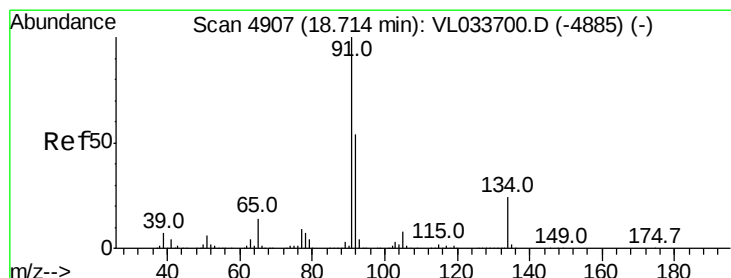
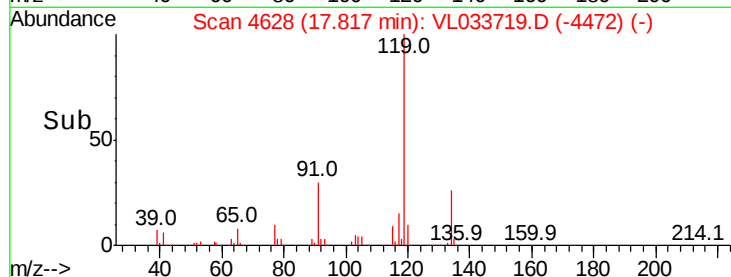
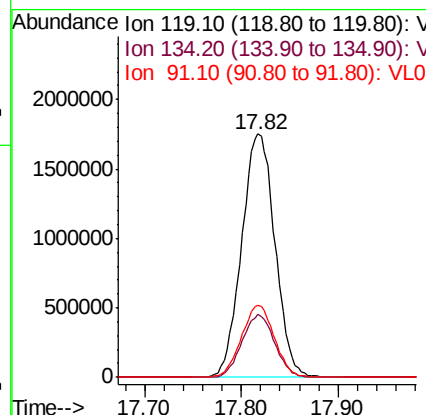
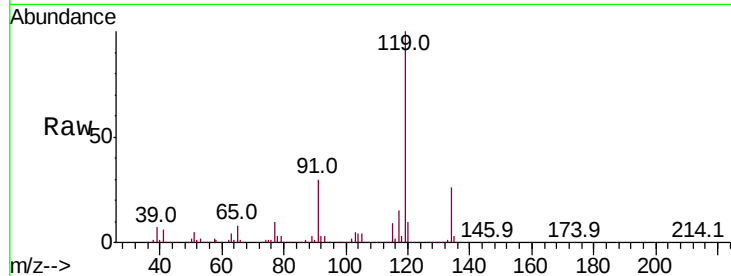
#69
 p-Isopropyltoluene
 Concen: 9.179 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.3	30.5
91	29.3	23.1	34.7

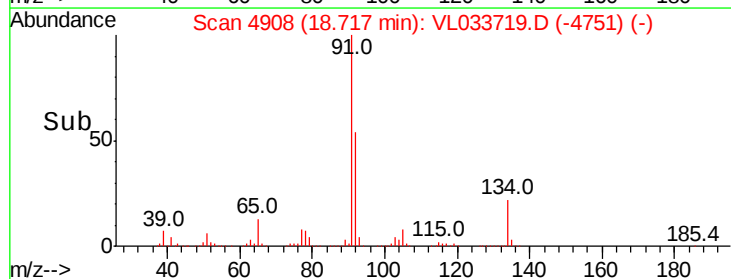
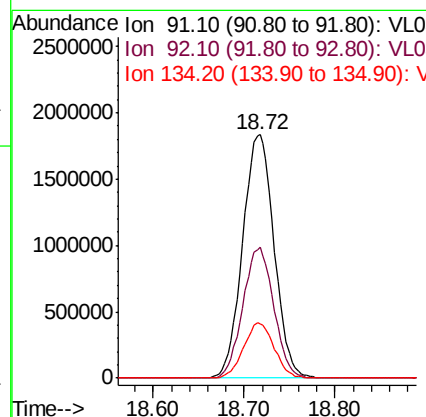
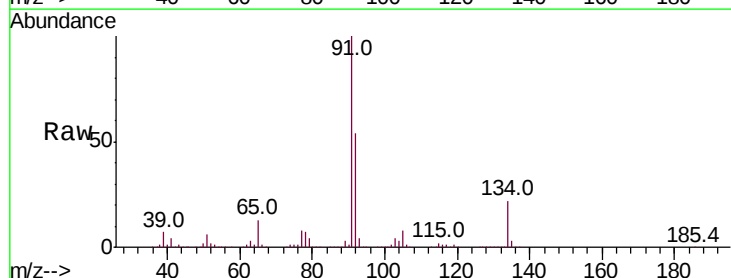
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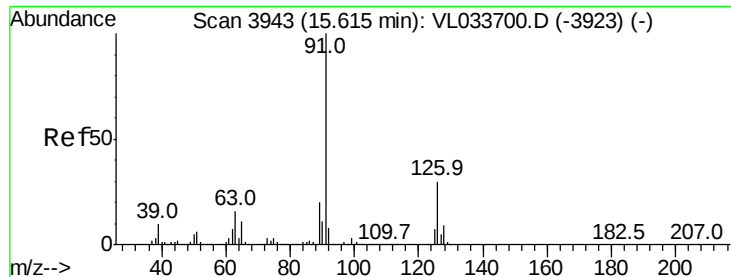
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#70
 n-Butylbenzene
 Concen: 8.974 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.6	63.8
134	22.2	18.1	27.1





#71

2-Chlorotoluene

Concen: 9.512 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3049127

Ion Ratio Lower Upper

91 100

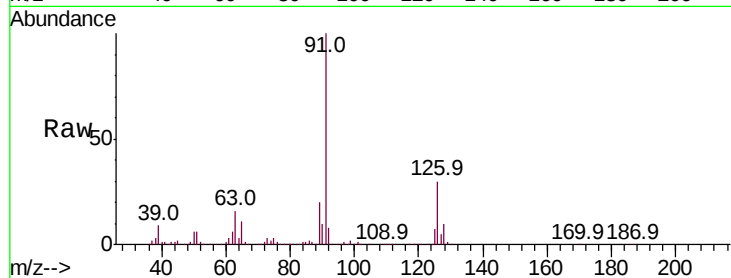
126 29.9 12.0 47.8

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2500000

2000000

1500000

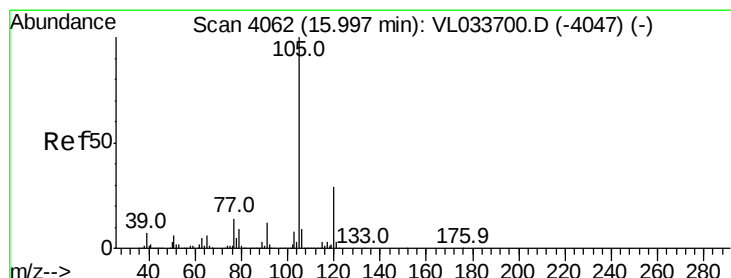
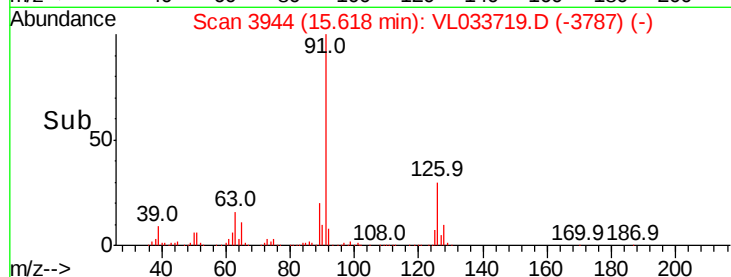
1000000

500000

0

15.55 15.60 15.65 15.70

Time-->



#72

4-Ethyltoluene

Concen: 9.487 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion:105 Resp: 3479987

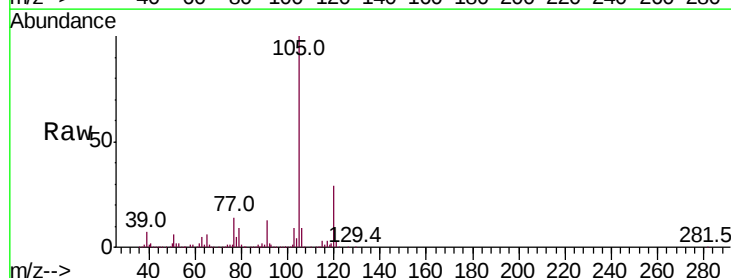
Ion Ratio Lower Upper

105 100

120 29.1 23.1 34.7

91 13.0 10.4 15.6

77 14.3 11.0 16.6



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

2000000

1500000

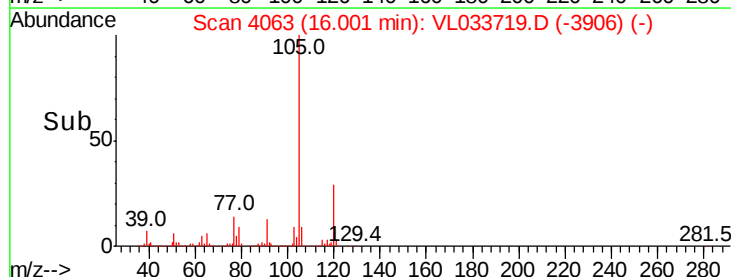
1000000

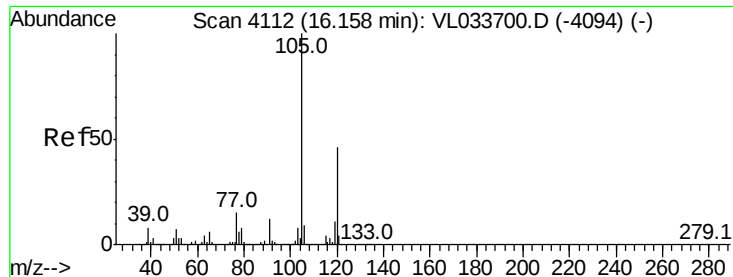
500000

0

15.90 16.00 16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 9.236 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3305552

Ion Ratio Lower Upper

105 100

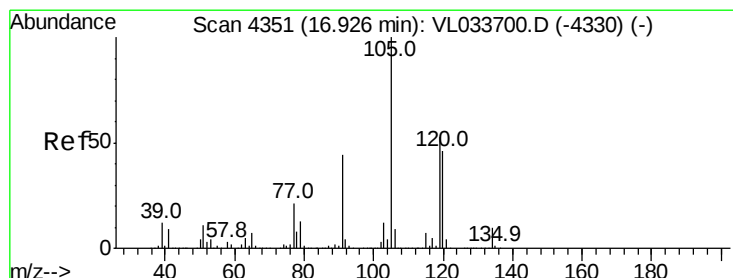
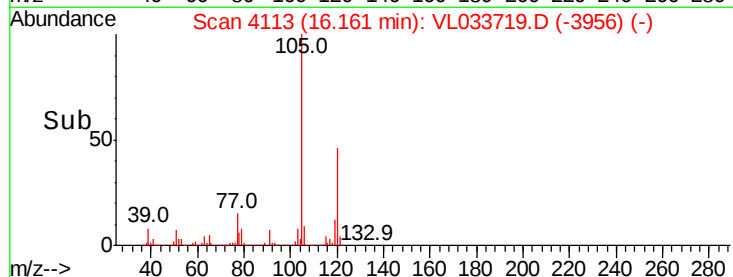
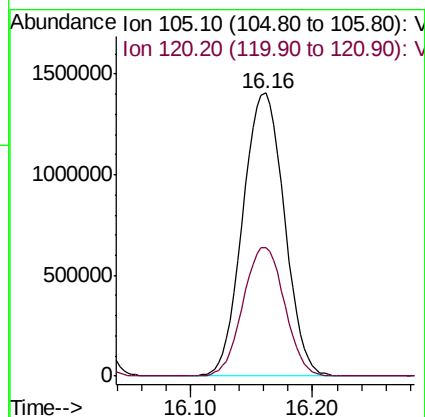
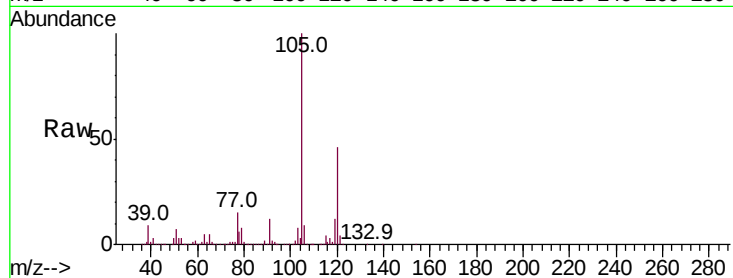
120 45.6 37.0 55.4

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#74

1,2,4-Trimethylbenzene

Concen: 8.764 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Tgt Ion:105 Resp: 3413587

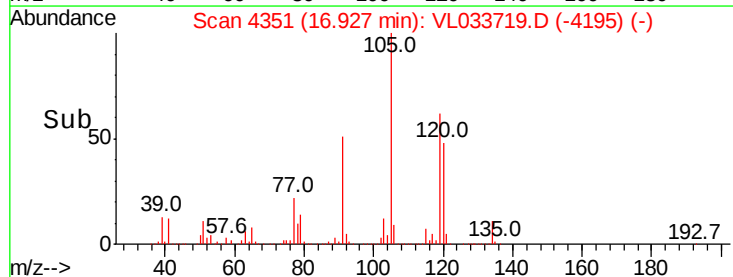
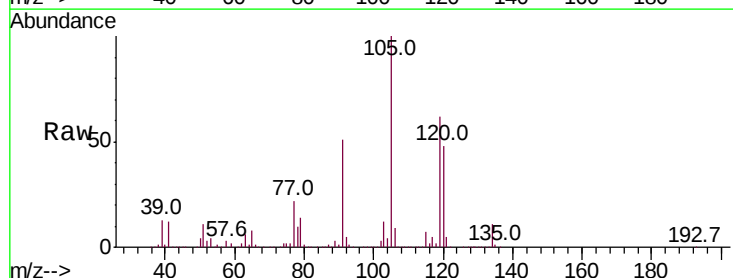
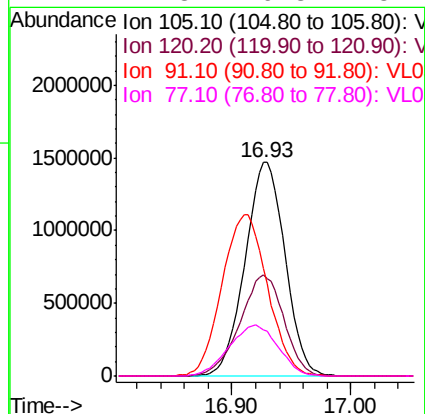
Ion Ratio Lower Upper

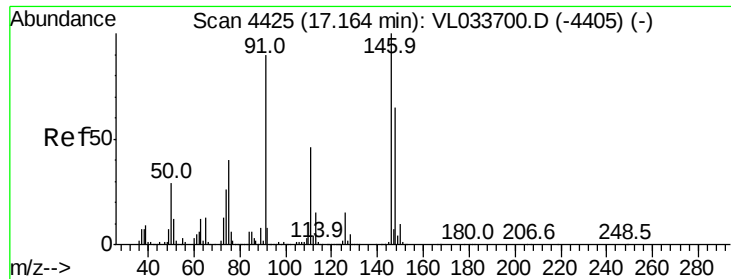
105 100

120 47.5 36.8 55.2

91 50.4 35.4 53.0

77 21.8 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 8.344 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1991601

Ion Ratio Lower Upper

146 100

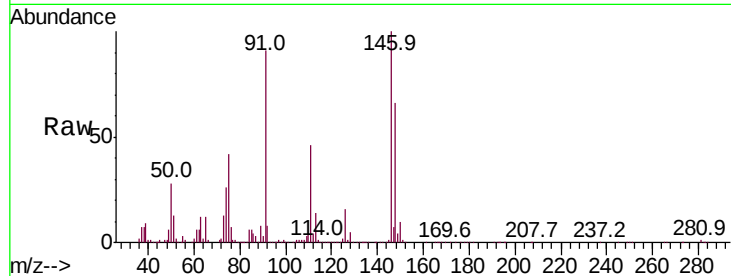
111 45.8 22.9 68.8

148 63.7 32.0 96.2

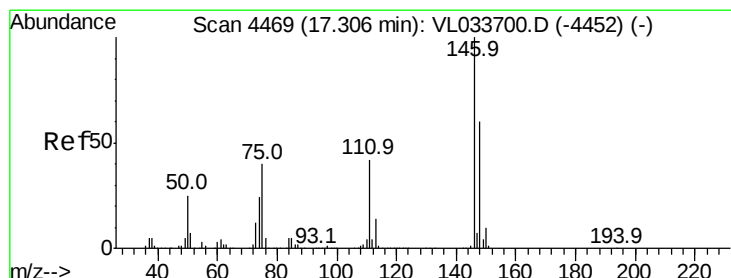
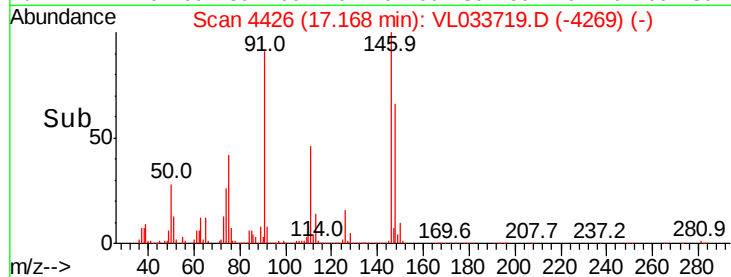
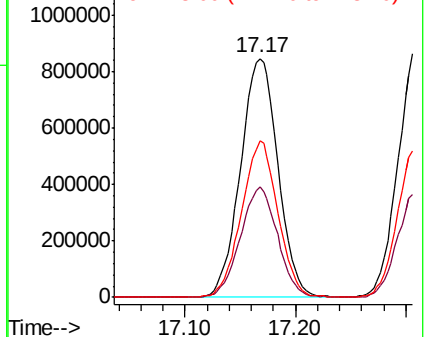
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.830 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

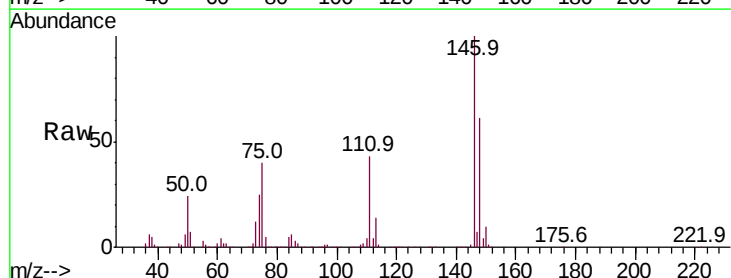
Tgt Ion:146 Resp: 2003208

Ion Ratio Lower Upper

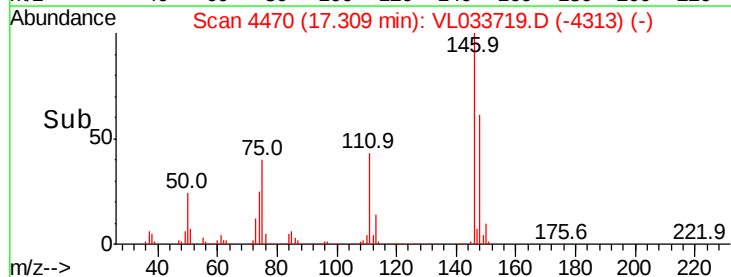
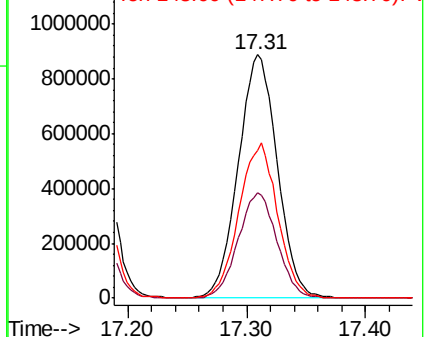
146 100

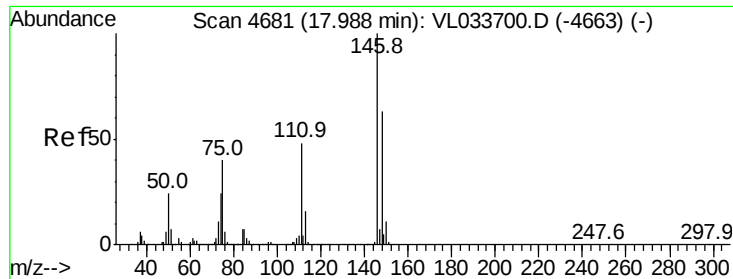
111 43.5 21.9 65.8

148 64.0 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.450 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion:146 Resp: 1895201

Ion Ratio Lower Upper

146 100

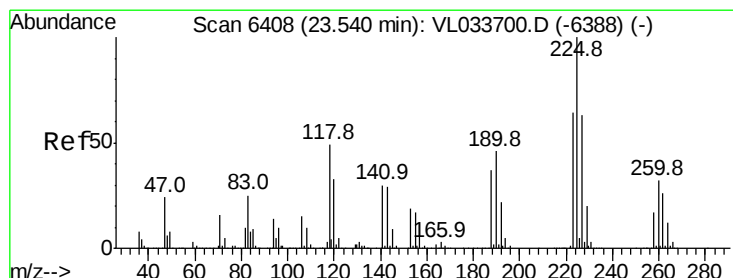
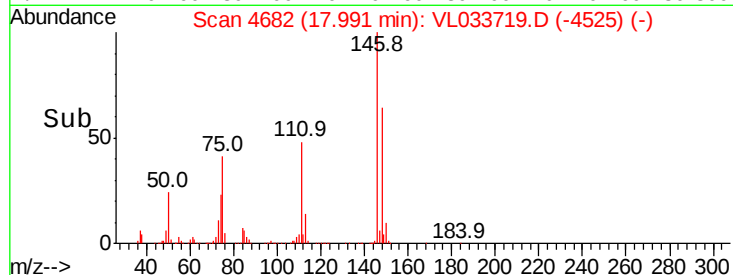
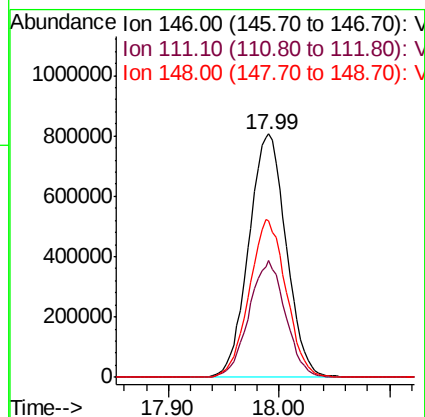
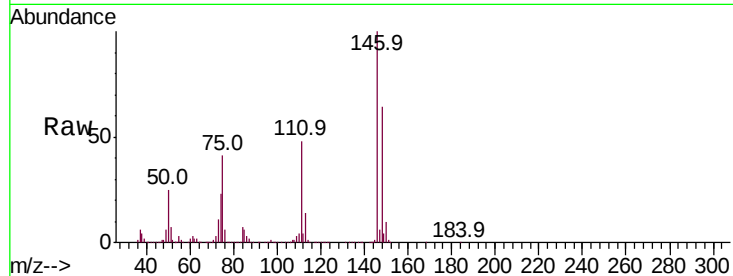
111 46.9 23.5 70.5

148 64.0 32.1 96.3

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#78

Hexachloro-1,3-Butadiene

Concen: 8.560 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

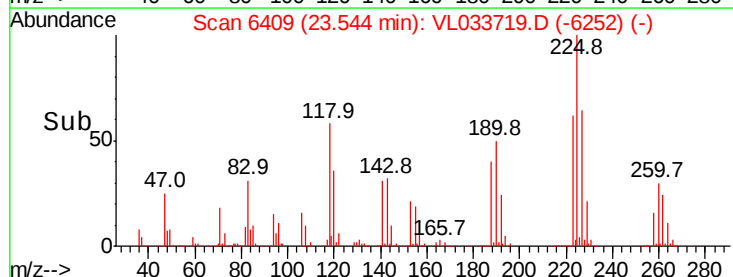
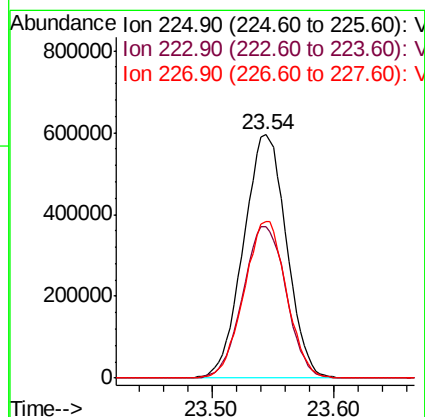
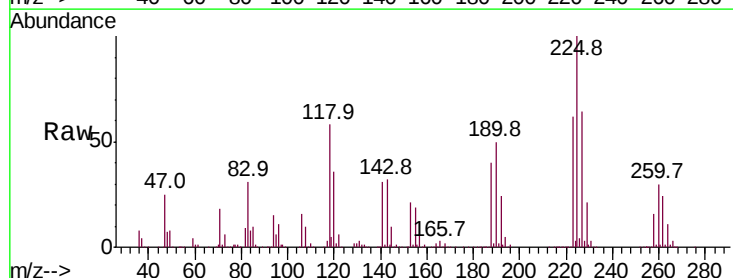
Tgt Ion:225 Resp: 1451506

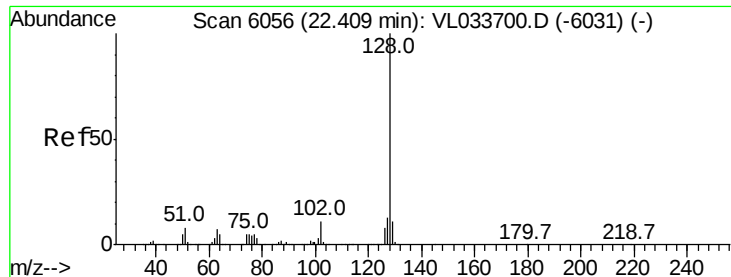
Ion Ratio Lower Upper

225 100

223 62.8 50.2 75.4

227 63.5 50.7 76.1





#79

Naphthalene

Concen: 8.331 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3014040

Ion Ratio Lower Upper

128 100

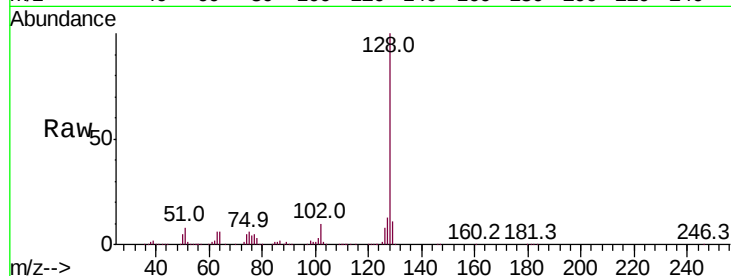
127 12.6 10.6 16.0

129 10.9 8.9 13.3

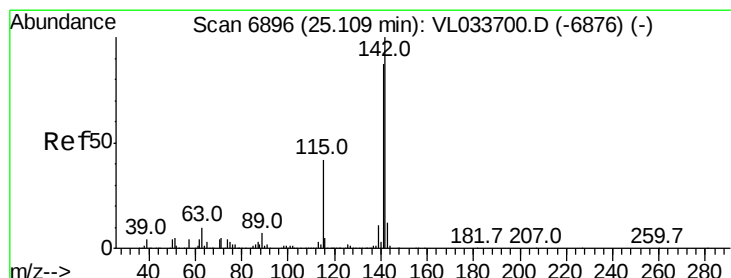
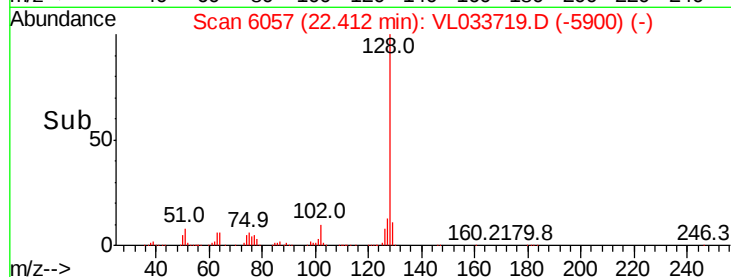
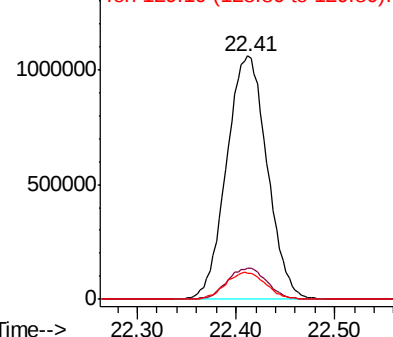
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.244 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. 0.00 min

Lab File: VL033719.D

Acq: 17 May 2019 16:41

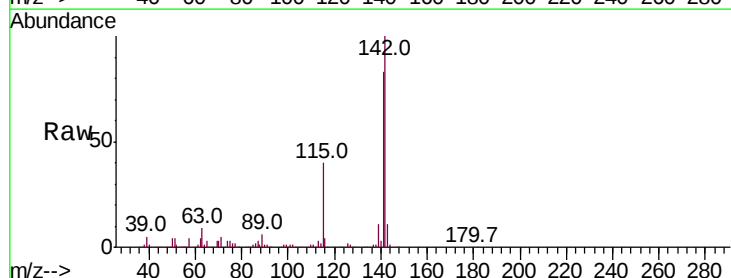
Tgt Ion:142 Resp: 1133245

Ion Ratio Lower Upper

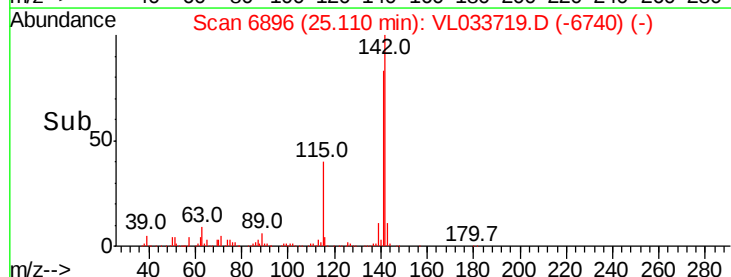
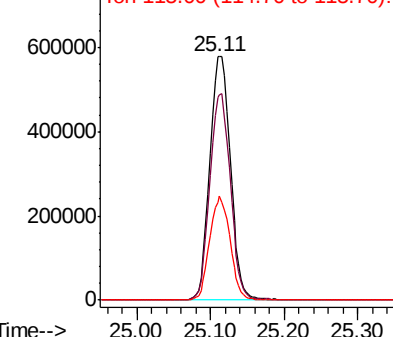
142 100

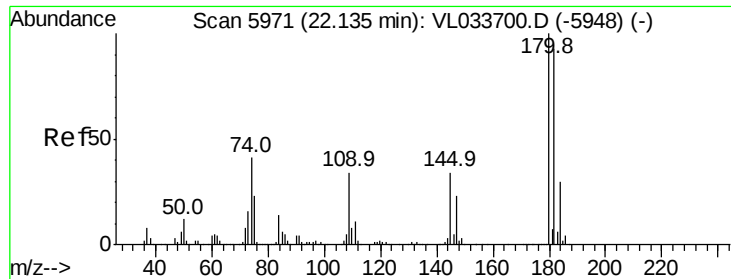
141 84.3 67.2 100.8

115 42.2 34.1 51.1



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.791 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033719.D
 Acq: 17 May 2019 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

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