

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034182.D
 Acq On : 17 Sep 2019 14:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:08 AM

Quant Time: Sep 19 07:47:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1198007	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2131271	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2346784	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1927492	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1320184	7.460	ppbv	100
3) Chlorodifluoromethane	2.97	51	1275251	9.079	ppbv	99
4) Chloromethane	3.12	50	781034	9.462	ppbv	96
5) Vinyl Chloride	3.24	62	691305	9.164	ppbv	100
6) Bromomethane	3.47	94	341980	9.716	ppbv	98
7) Chloroethane	3.55	64	250762	9.510	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	1414952	9.060	ppbv	99
9) Propene	2.99	41	654206	9.440	ppbv	99
10) Heptane	8.17	43	1687444	9.343	ppbv	100
11) Trichlorofluoromethane	3.95	101	1490992	9.256	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	982449	9.320	ppbv	99
13) Ethanol	3.60	45	145371	8.663	ppbv	95
14) Bromoethene	3.74	108	431239	10.006	ppbv	98
15) Acetone	3.85	43	1261034	7.854	ppbv	99
16) 1,3-Butadiene	3.31	39	674553	9.627	ppbv	100
17) tert-Butyl alcohol	4.30	59	1101325	10.825	ppbv	100
18) 1,1-Dichloroethene	4.29	96	447059	9.723	ppbv	93
19) Isopropyl Alcohol	3.97	45	1011899	10.248	ppbv	# 99
20) Methylene Chloride	4.35	84	418110	9.032	ppbv	95
21) Allyl Chloride	4.42	41	886935	9.780	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	446135	9.698	ppbv	100
23) Vinyl Acetate	5.09	43	2227393	9.414	ppbv	98
24) 1,1-Dichloroethane	5.03	63	1466543	9.205	ppbv	99
25) Ethyl Acetate	5.70	43	2692373	8.867	ppbv	100
26) Hexane	5.72	57	1166707	9.237	ppbv	97
27) Carbon Disulfide	4.56	76	1215899	10.438	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1821092	9.708	ppbv	100
29) Chloroform	5.79	83	1684459	9.333	ppbv	99
30) Cyclohexane	7.18	84	895750	9.823	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1228185	9.539	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1613856	9.272	ppbv	99
34) 2-Butanone	5.27	43	1877574	8.628	ppbv	98
35) Carbon Tetrachloride	7.06	117	1570508	8.870	ppbv	97
36) Benzene	6.93	78	2122739	9.018	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1489104	8.894	ppbv	99
38) Trichloroethene	7.89	130	706287	8.398	ppbv	98
39) 1,2-Dichloropropane	7.67	63	958636	9.064	ppbv	98
40) 1,4-Dioxane	7.88	88	328349	9.594	ppbv	# 87
41) Tetrahydrofuran	6.08	42	1143652	9.331	ppbv	99
42) Bromodichloromethane	7.85	83	1843890	9.177	ppbv	100
43) Methyl Methacrylate	8.07	69	933561	9.601	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3909104	8.627	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1201106	10.447	ppbv	98
46) cis-1,3-Dichloropropene	8.76	75	1369192	9.900	ppbv	97
47) 1,1,2-Trichloroethane	9.54	97	848620	8.936	ppbv	96
48) Dibromochloromethane	10.38	129	1382420	9.184	ppbv	100
49) Bromoform	13.12	173	1143372	9.387	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2769698	8.745	ppbv	100
51) 2-Hexanone	10.19	43	2345738	8.826	ppbv #	99
52) Tetrachloroethene	11.30	164	661617	8.508	ppbv	98
53) Toluene	9.87	91	2359171	9.171	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1250561	8.855	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.20	131	895045m	8.552	ppbv	
57) Chlorobenzene	12.23	112	1648663	8.069	ppbv	99
58) Ethyl Benzene	12.79	91	3145910	8.308	ppbv	98
59) m/p-Xylene	13.08	91	5112202m	16.300	ppbv	
60) o-Xylene	13.78	91	2535923	8.086	ppbv	100
61) Styrene	13.61	104	1914260	8.521	ppbv	100
62) Isopropylbenzene	14.75	105	3290924	8.106	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1830825	7.119	ppbv	100
64) n-propylbenzene	15.65	120	855784	8.332	ppbv	95
65) tert-Butylbenzene	16.83	119	2786366	7.855	ppbv	100
66) Benzyl Chloride	17.08	91	1251290	9.970	ppbv	98
67) sec-Butylbenzene	17.38	105	4002948	7.891	ppbv	100
69) p-Isopropyltoluene	17.74	119	3246417	7.904	ppbv	99
70) n-Butylbenzene	18.64	91	3712106	7.762	ppbv	99
71) 2-Chlorotoluene	15.54	91	2696633	8.130	ppbv	99
72) 4-Ethyltoluene	15.92	105	2873766	8.111	ppbv	100
73) 1,3,5-Trimethylbenzene	16.09	105	2769910	8.092	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2773060	7.630	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1517188	7.780	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1542107	7.722	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	1511725	7.659	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1128965	8.636	ppbv	99
79) Naphthalene	22.32	128	2509330	7.842	ppbv	96
80) Naphthalene, 2-methyl-	25.05	142	1137470	7.644	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	1378444	7.777	ppbv	99

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

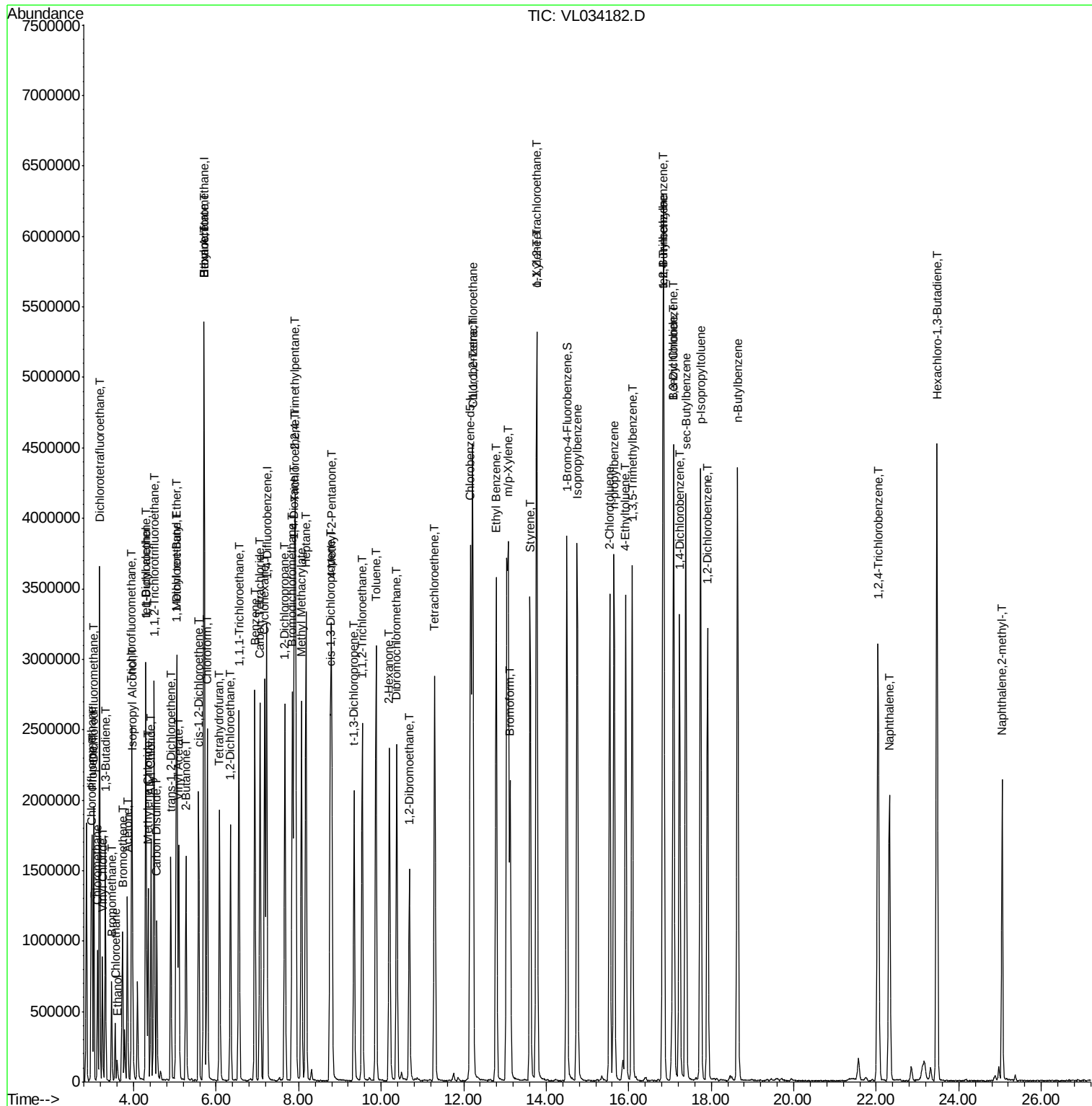
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091719\
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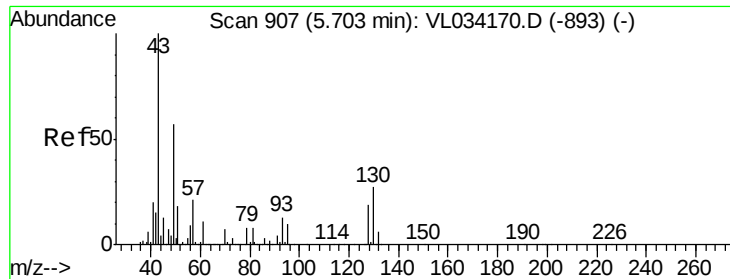
Instrument :
MSVOA_L
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VSTDCCC010EC

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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1198007

Ion Ratio Lower Upper

49 100

128 35.9 17.6 52.9

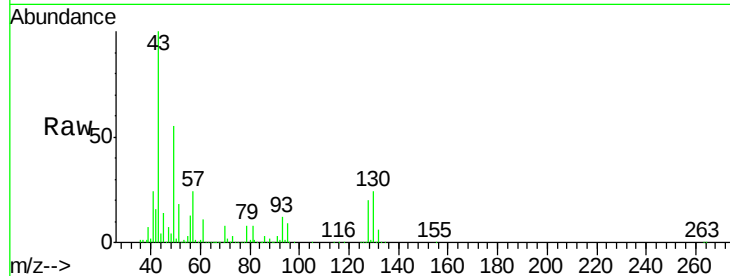
130 45.0 22.3 66.9

Manual Integrations

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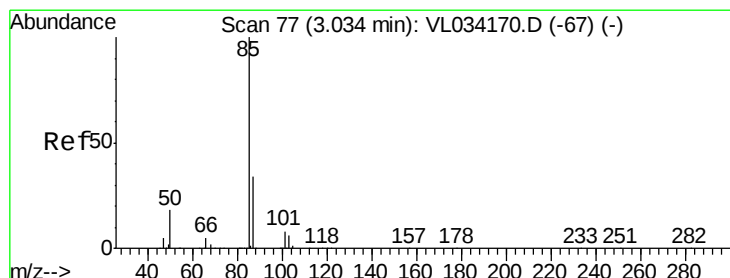
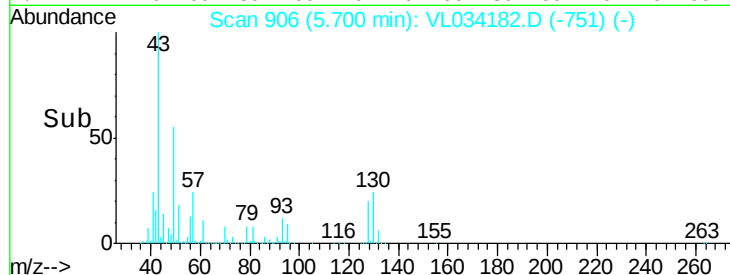
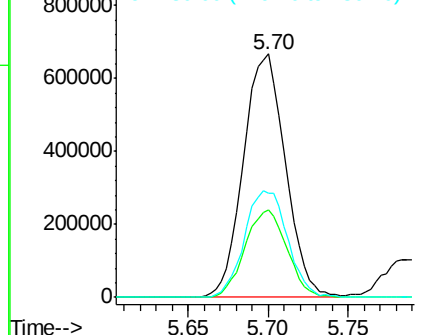
9/20/2019 12:44:08 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.460 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034182.D

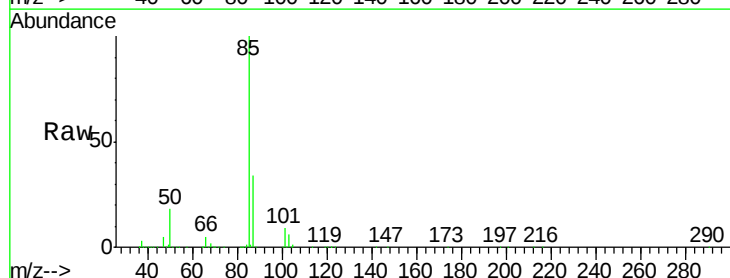
Acq: 17 Sep 2019 14:03

Tgt Ion: 85 Resp: 1320184

Ion Ratio Lower Upper

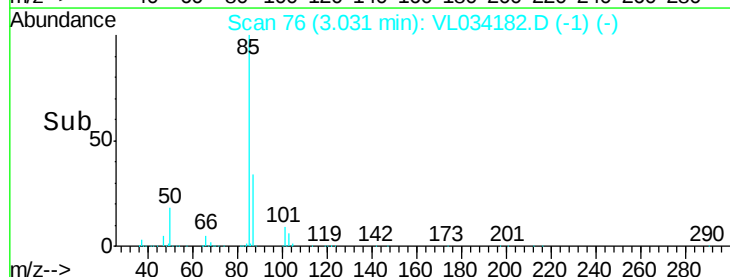
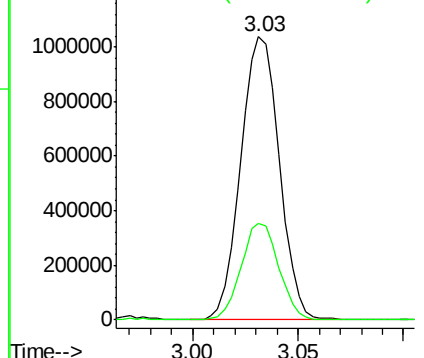
85 100

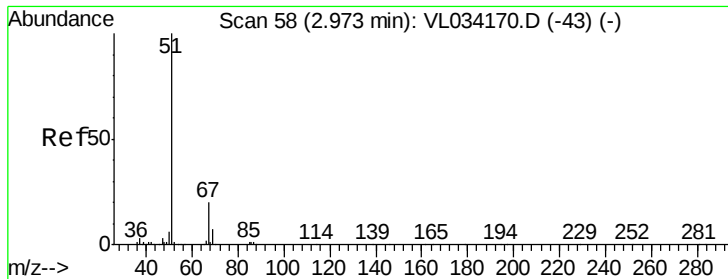
87 34.0 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.079 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1275251

Ion Ratio Lower Upper

51 100

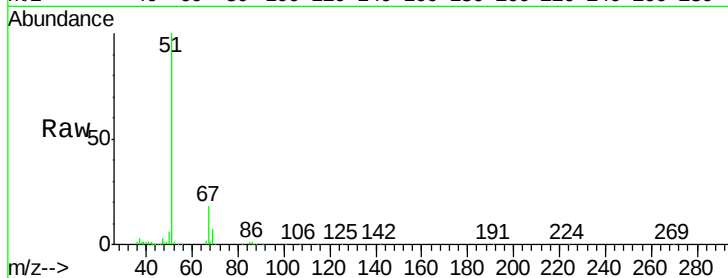
67 18.1 14.8 22.2

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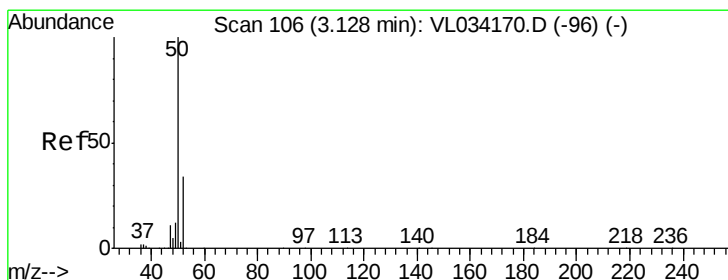
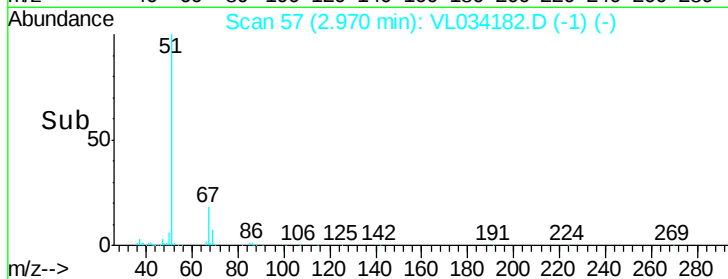
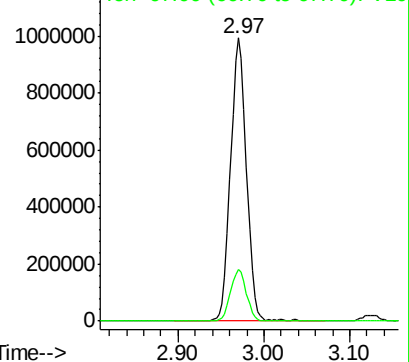
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.462 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034182.D

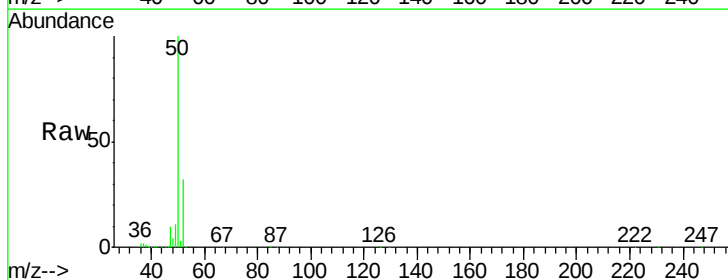
Acq: 17 Sep 2019 14:03

Tgt Ion: 50 Resp: 781034

Ion Ratio Lower Upper

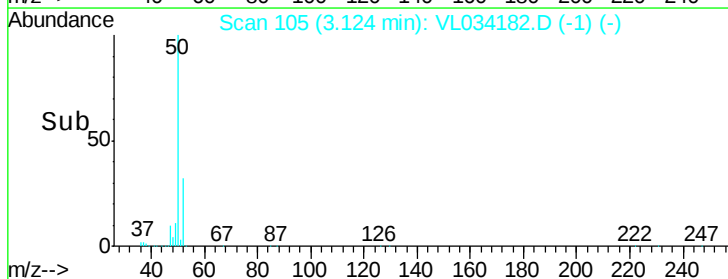
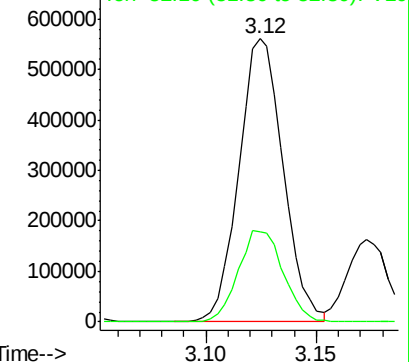
50 100

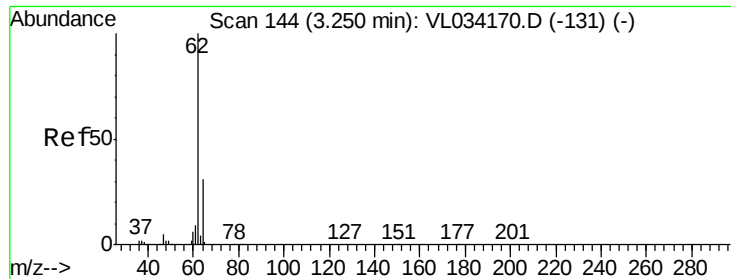
52 31.7 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.164 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 691305

Ion Ratio Lower Upper

62 100

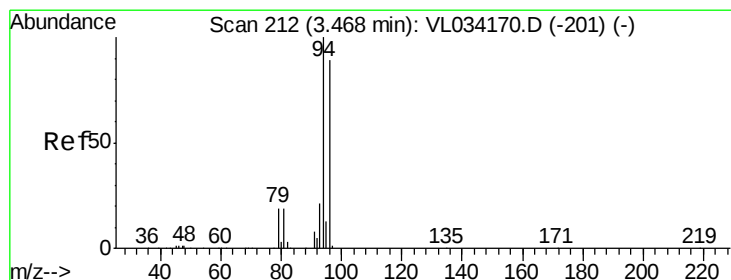
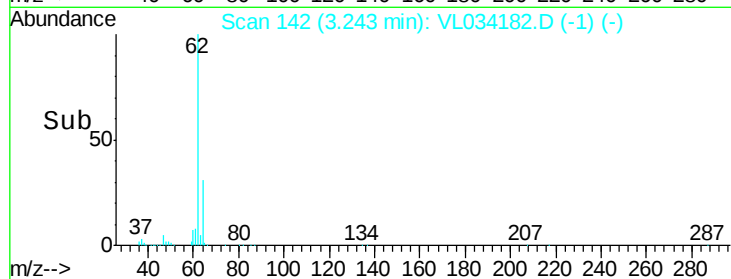
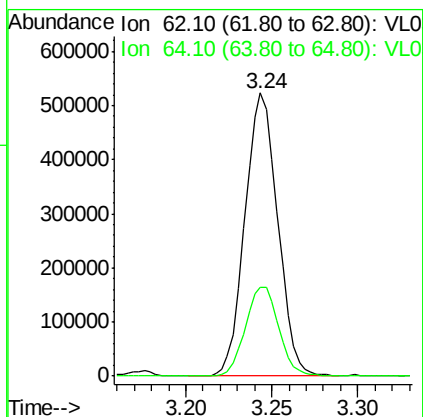
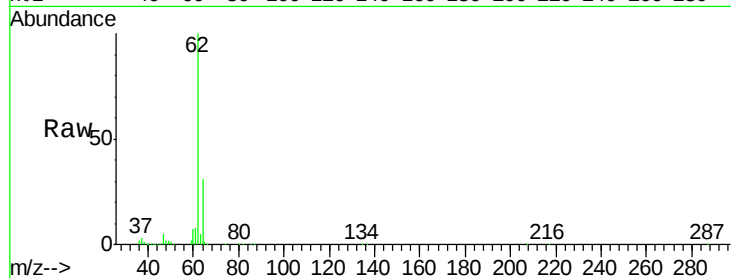
64 31.3 25.2 37.8

Manual Integrations

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9/20/2019 12:44:08 AM



#6

Bromomethane

Concen: 9.716 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL034182.D

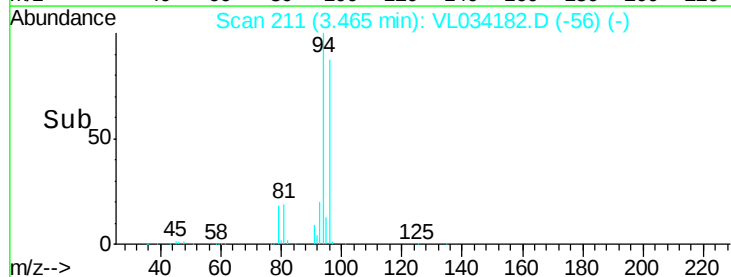
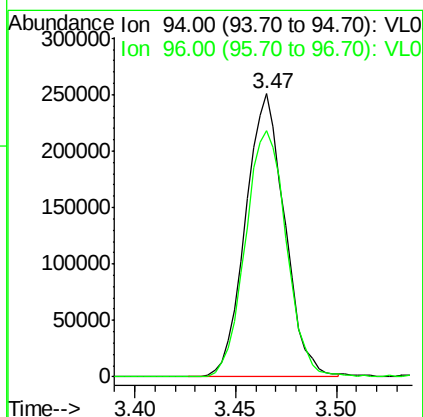
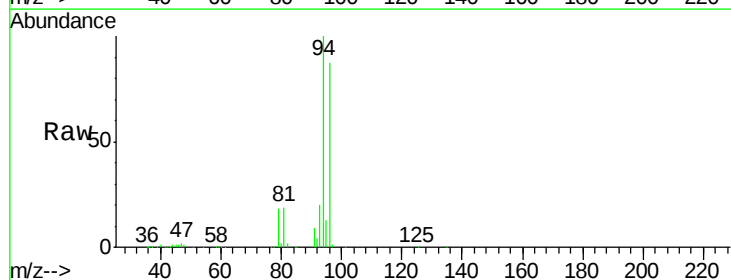
Acq: 17 Sep 2019 14:03

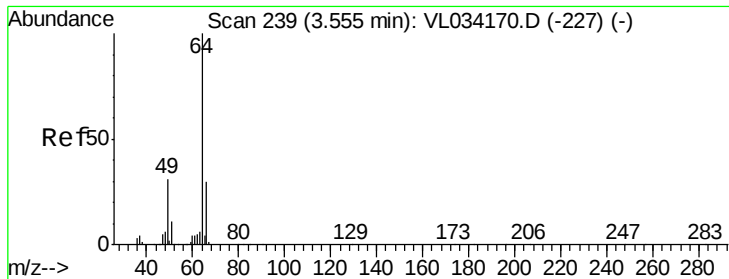
Tgt Ion: 94 Resp: 341980

Ion Ratio Lower Upper

94 100

96 87.0 71.3 106.9





#7

Chloroethane

Concen: 9.510 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 250762

Ion Ratio Lower Upper

64 100

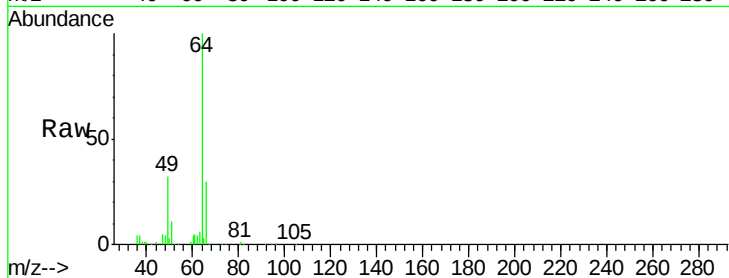
66 30.3 24.2 36.4

Manual Integrations

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9/20/2019 12:44:08 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

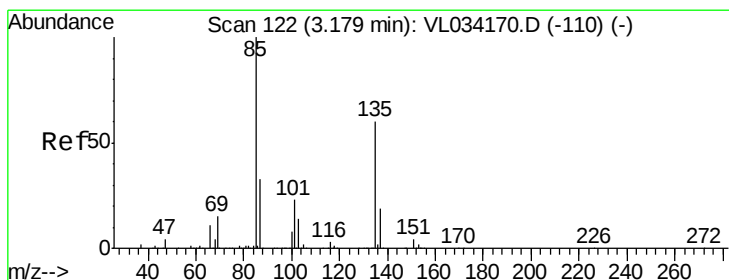
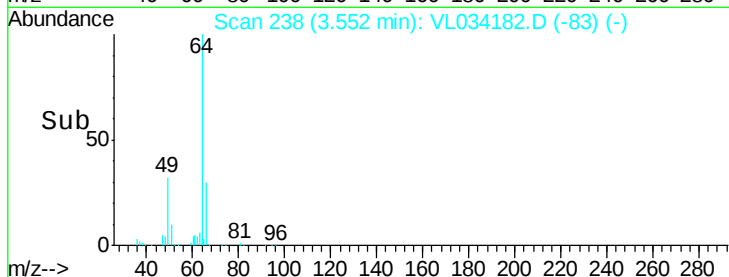
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.060 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034182.D

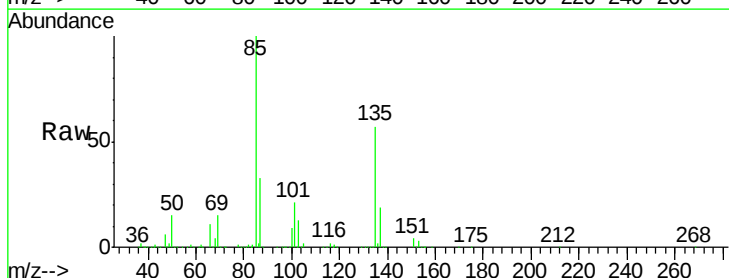
Acq: 17 Sep 2019 14:03

Tgt Ion: 85 Resp: 1414952

Ion Ratio Lower Upper

85 100

135 58.7 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

1200000

1000000

800000

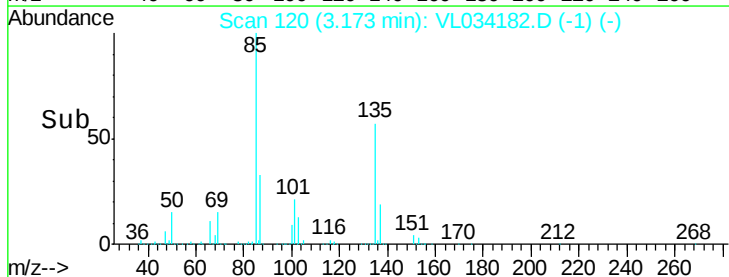
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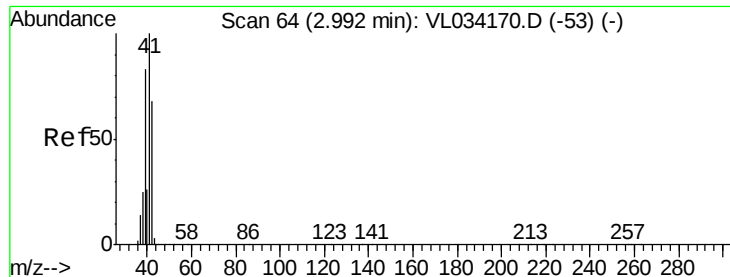
400000

200000

0

Time-->





#9

Propene

Concen: 9.440 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 654206

Ion Ratio Lower Upper

41 100

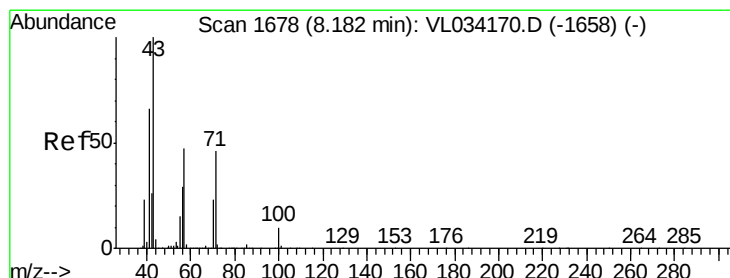
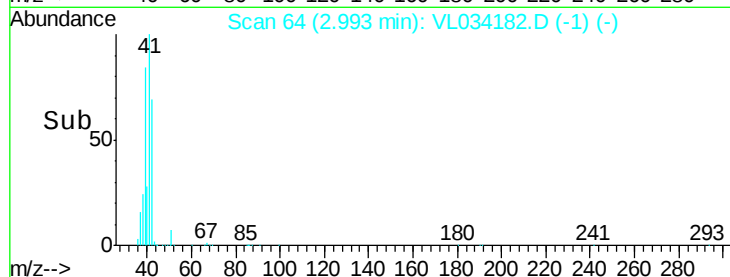
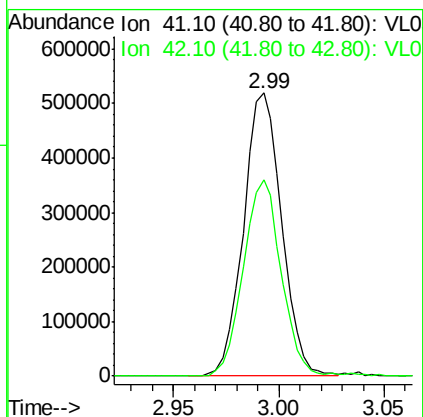
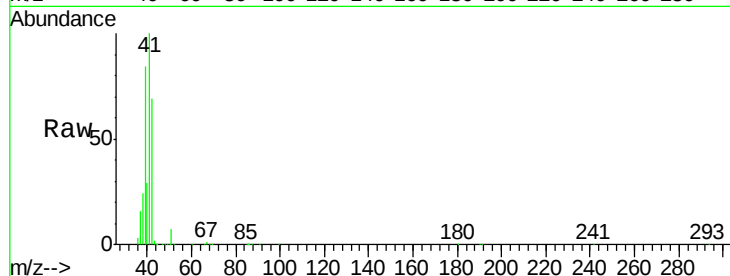
42 69.2 55.8 83.6

Manual Integrations

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9/20/2019 12:44:08 AM



#10

Heptane

Concen: 9.343 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.01 min

Lab File: VL034182.D

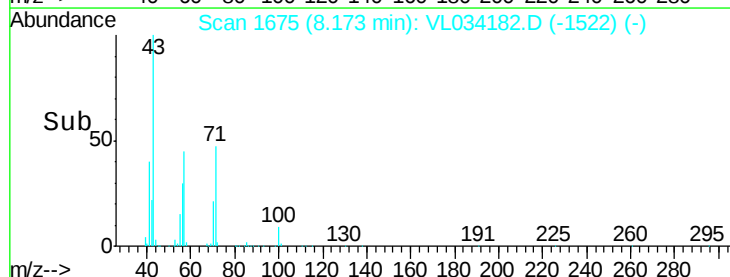
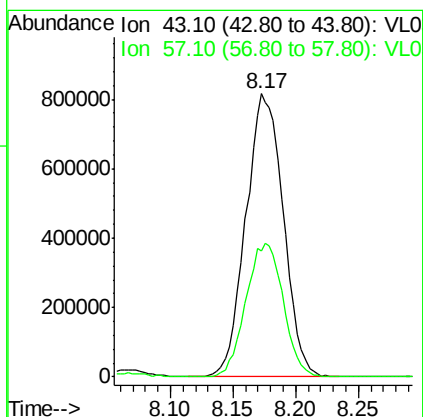
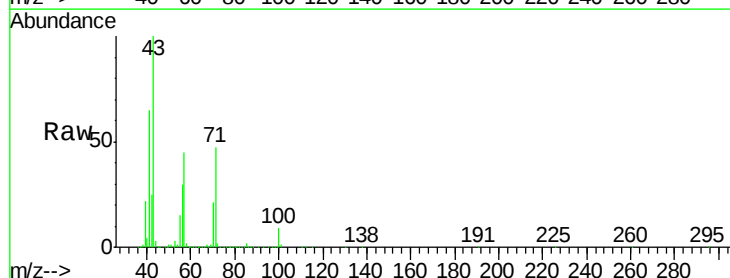
Acq: 17 Sep 2019 14:03

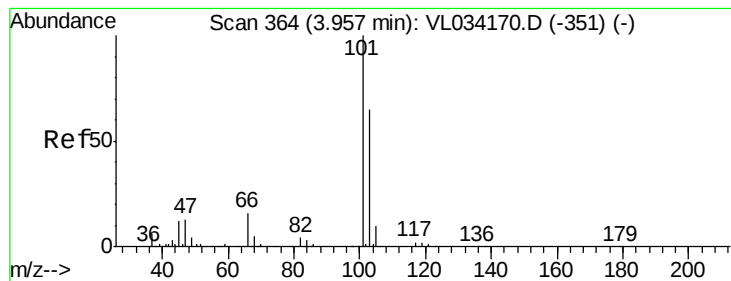
Tgt Ion: 43 Resp: 1687444

Ion Ratio Lower Upper

43 100

57 47.1 37.5 56.3





#11

Trichlorofluoromethane

Concen: 9.256 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1490992

Ion Ratio Lower Upper

101 100

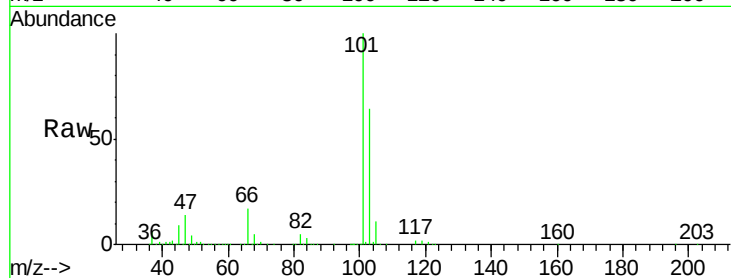
103 64.3 52.1 78.1

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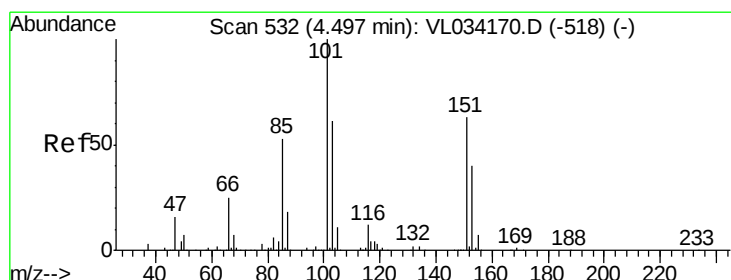
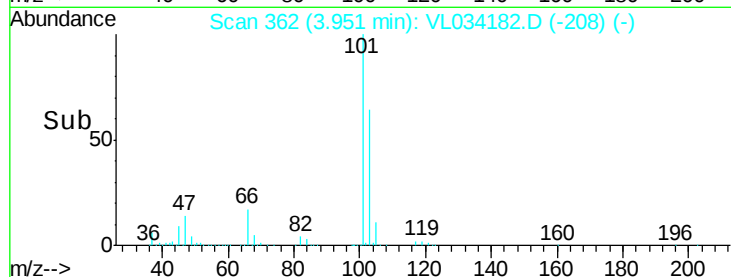
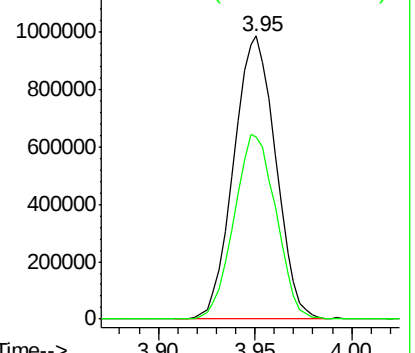
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.320 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034182.D

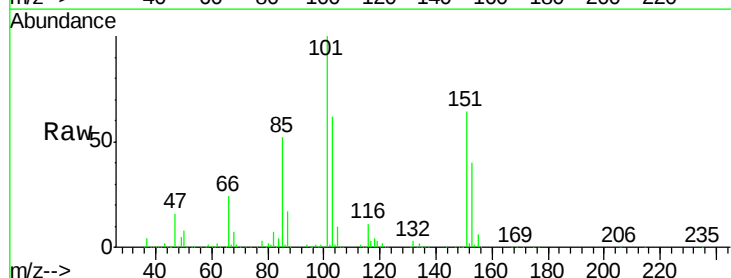
Acq: 17 Sep 2019 14:03

Tgt Ion:101 Resp: 982449

Ion Ratio Lower Upper

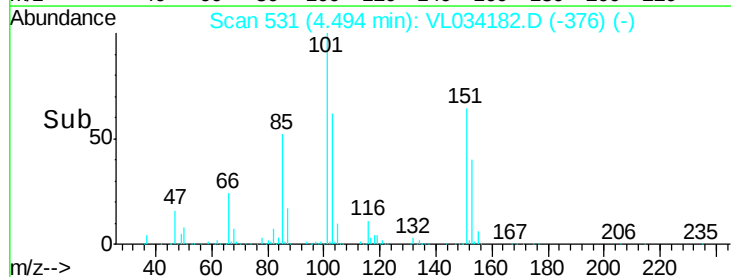
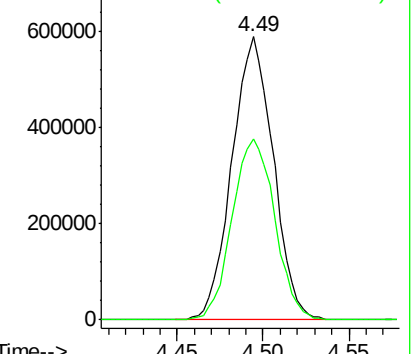
101 100

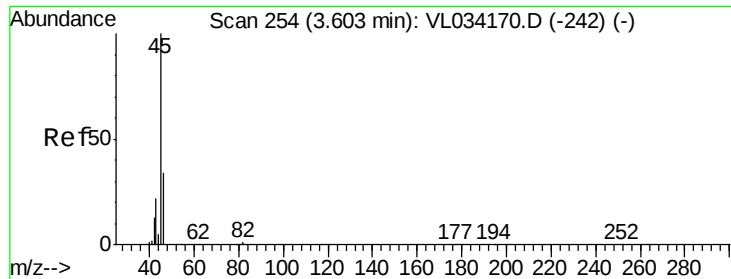
151 66.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





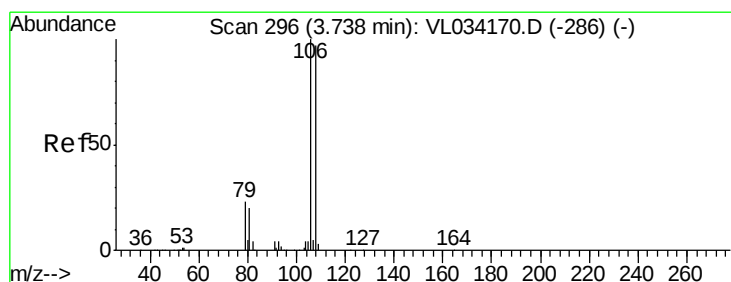
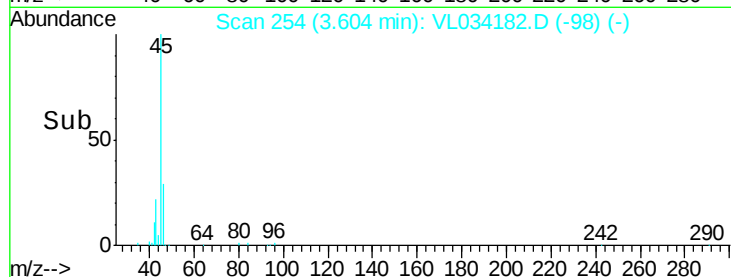
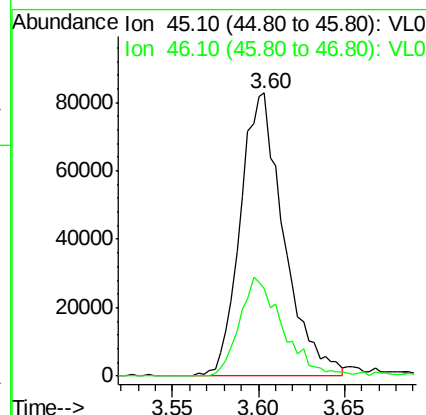
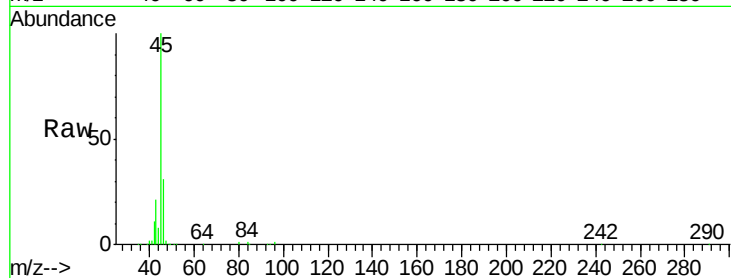
#13
Ethanol
Concen: 8.663 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	145371
Ion Ratio	100	Lower	Upper
46	35.8	15.5	61.9

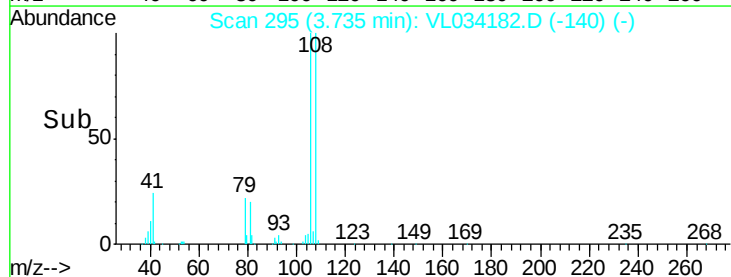
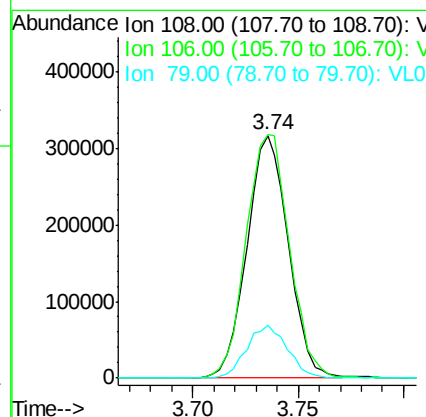
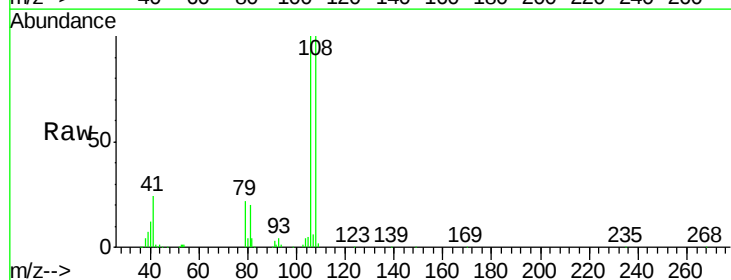
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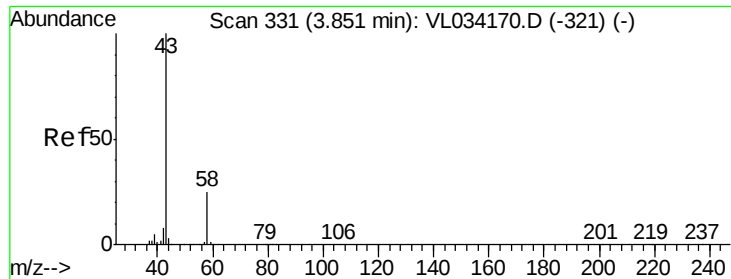
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#14
Bromoethene
Concen: 10.006 ppbv
RT: 3.74 min Scan# 295
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	108	Resp	431239
Ion Ratio	100	Lower	Upper
106	106.1	86.2	129.4
79	21.8	18.6	27.8





#15

Acetone

Concen: 7.854 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1261034

Ion Ratio Lower Upper

43 100

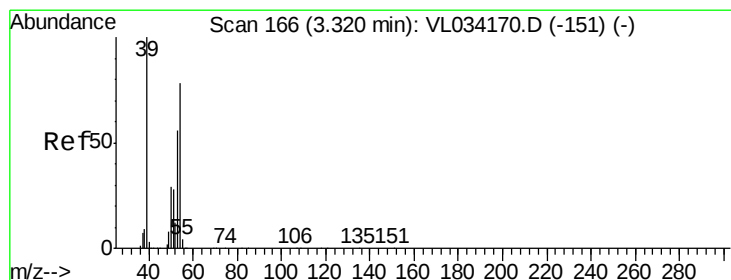
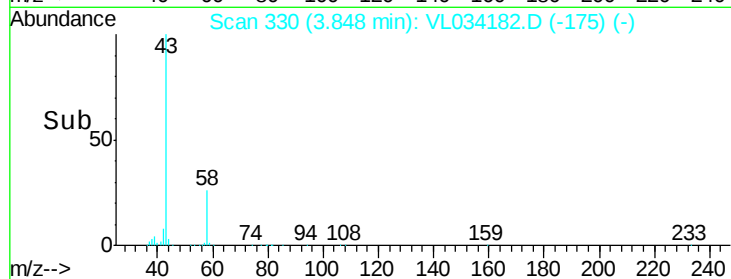
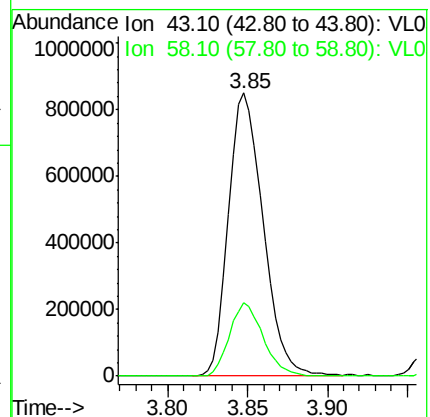
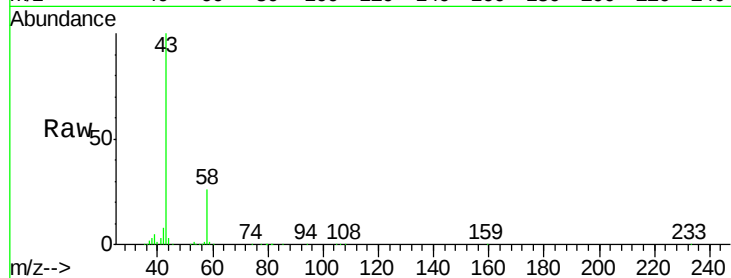
58 25.3 20.5 30.7

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#16

1,3-Butadiene

Concen: 9.627 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL034182.D

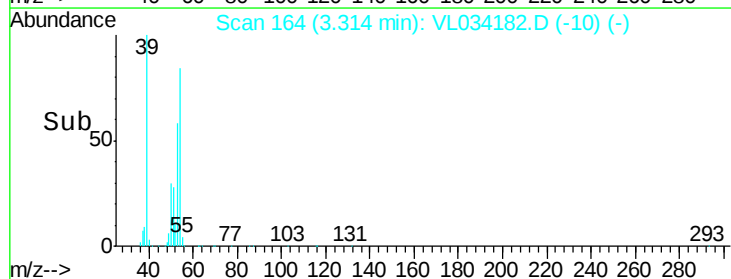
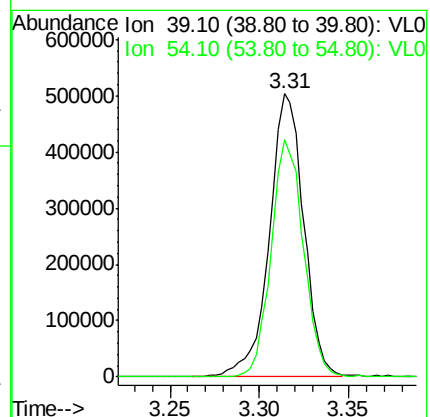
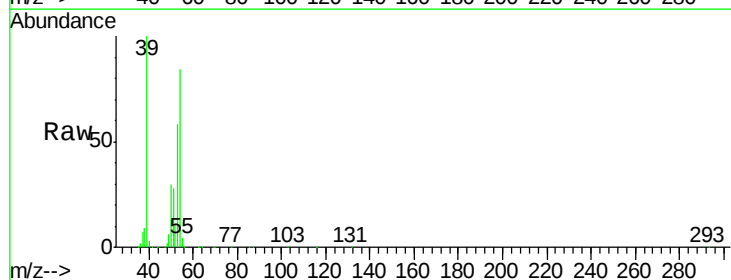
Acq: 17 Sep 2019 14:03

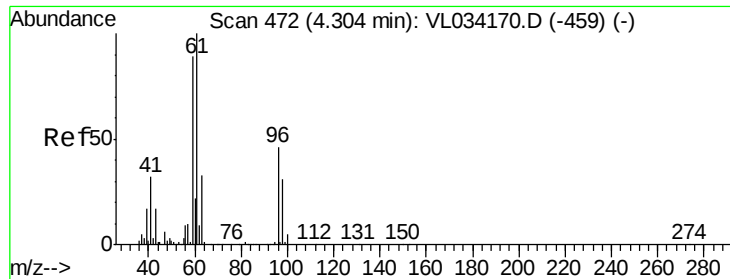
Tgt Ion: 39 Resp: 674553

Ion Ratio Lower Upper

39 100

54 79.2 63.4 95.0





#17

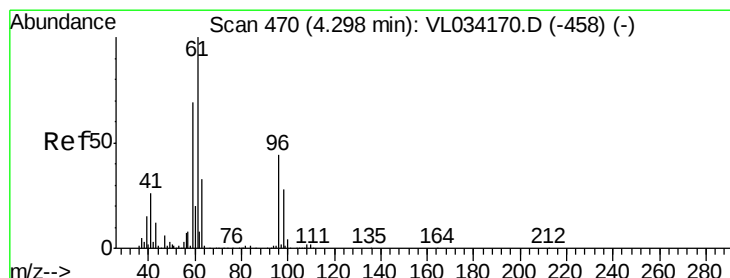
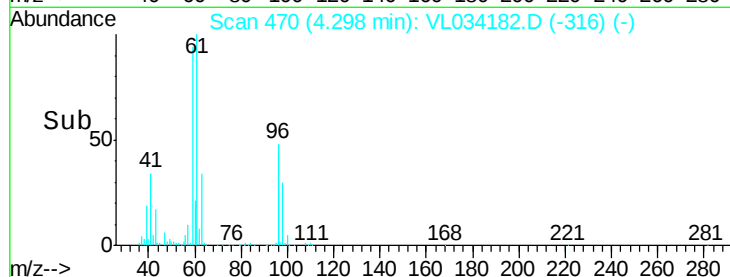
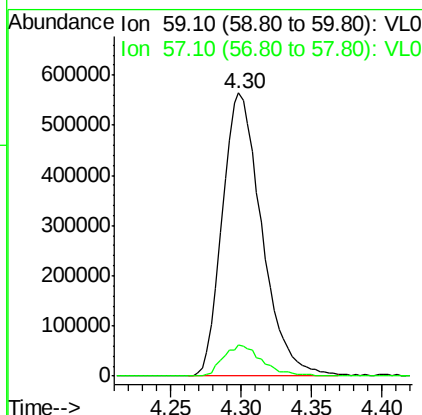
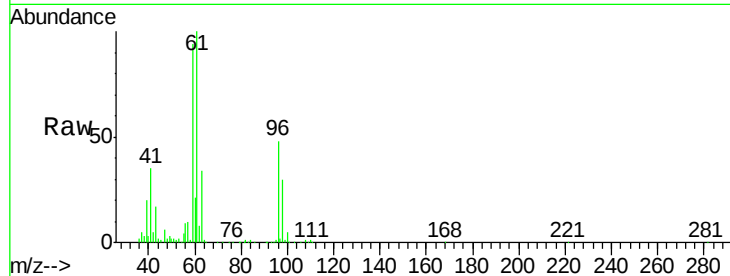
tert-Butyl alcohol
 Concen: 10.825 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1101325
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.7 13.1

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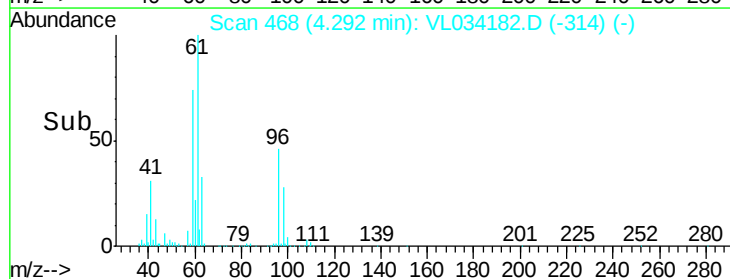
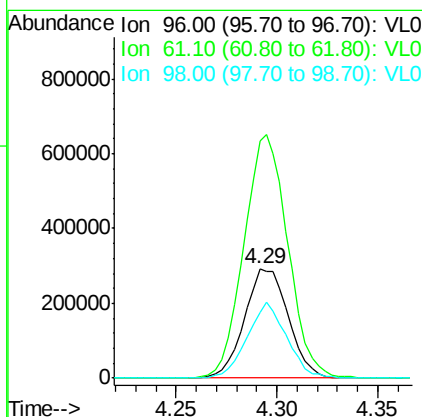
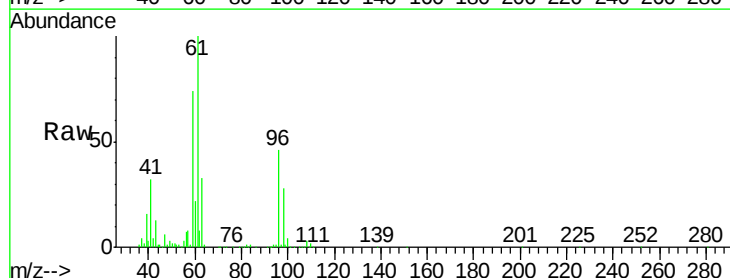
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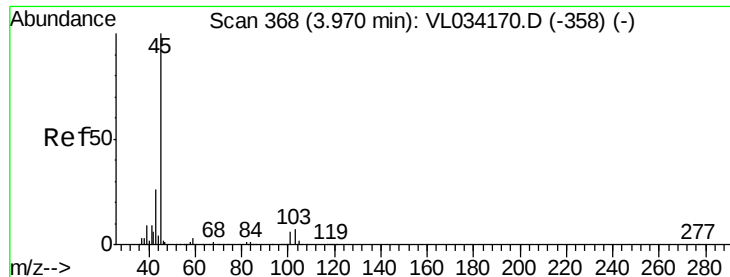


#18

1,1-Dichloroethene
 Concen: 9.723 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion: 96 Resp: 447059
 Ion Ratio Lower Upper
 96 100
 61 216.3 183.3 274.9
 98 59.9 51.4 77.2





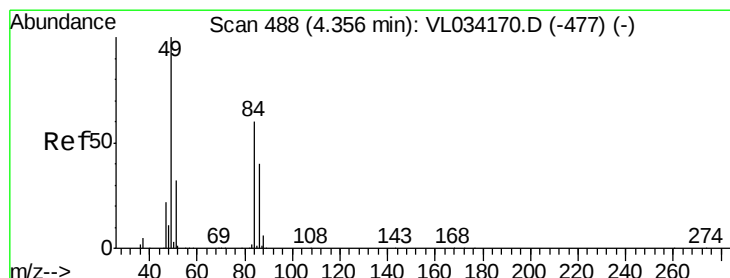
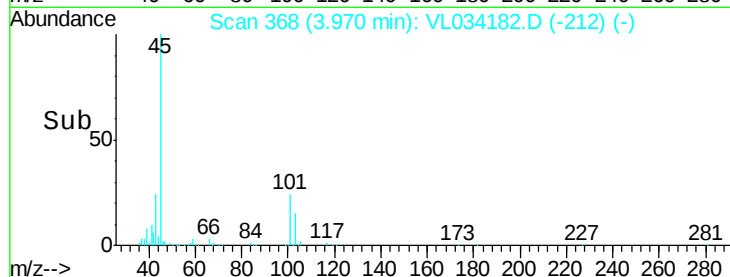
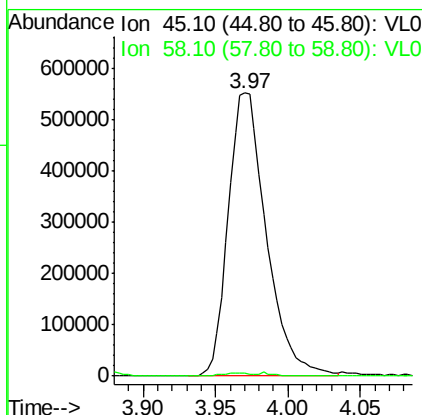
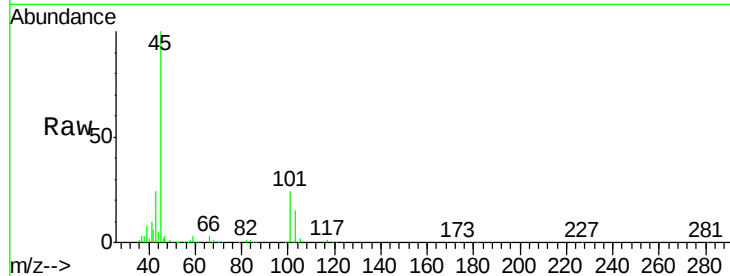
#19
Isopropyl Alcohol
Concen: 10.248 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 1011899
Ion Ratio Lower Upper
45 100
58 1.3 1.4 2.0#

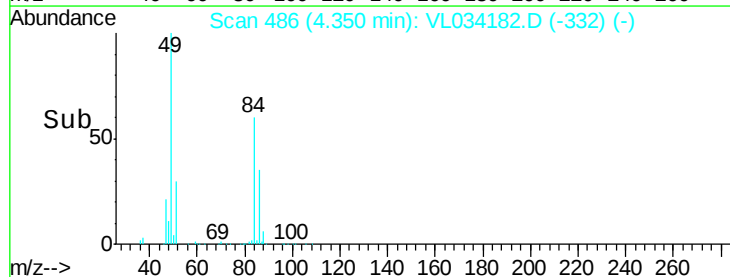
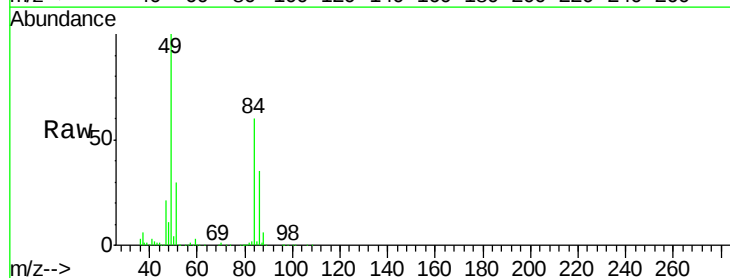
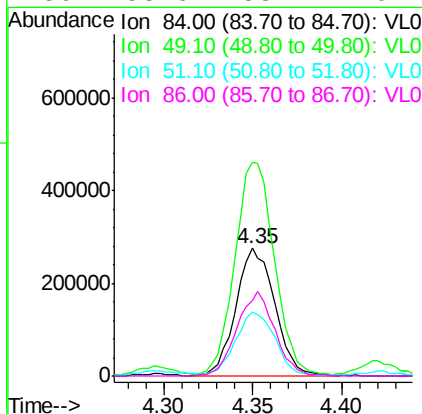
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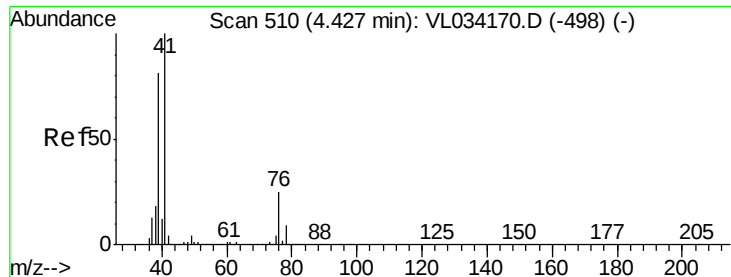
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#20
Methylene Chloride
Concen: 9.032 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion: 84 Resp: 418110
Ion Ratio Lower Upper
84 100
49 165.3 133.8 200.8
51 49.2 43.6 65.4
86 58.6 53.1 79.7





#21

Allvl Chloride

Concen: 9.780 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

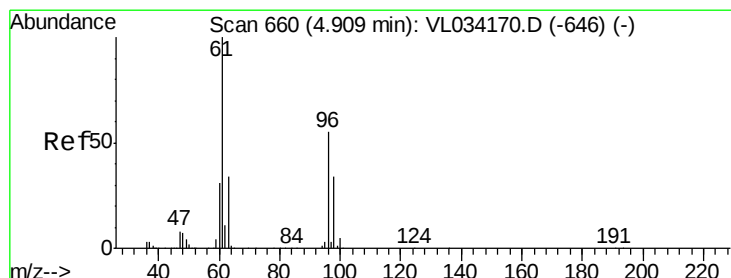
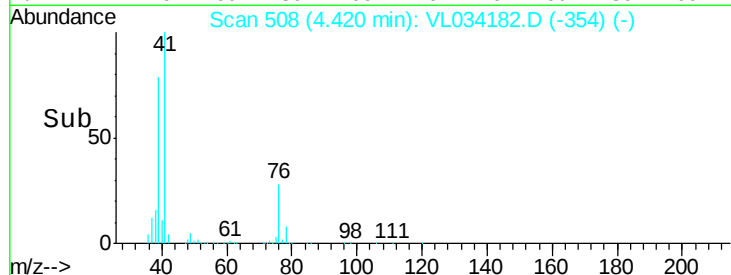
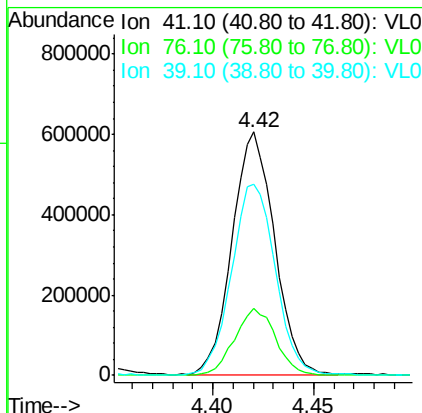
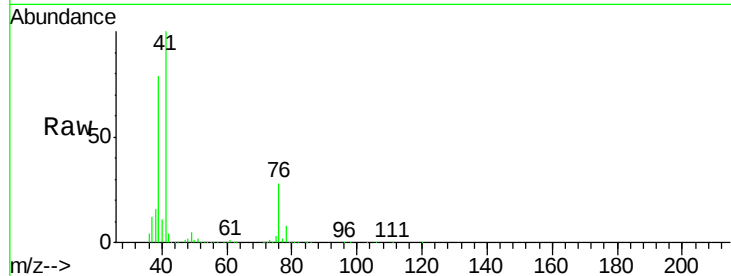
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	886935
Ion	Ratio	Lower	Upper
41	100		
76	27.2	21.8	32.6
39	82.1	64.8	97.2

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#22

trans-1,2-Dichloroethene

Concen: 9.698 ppbv

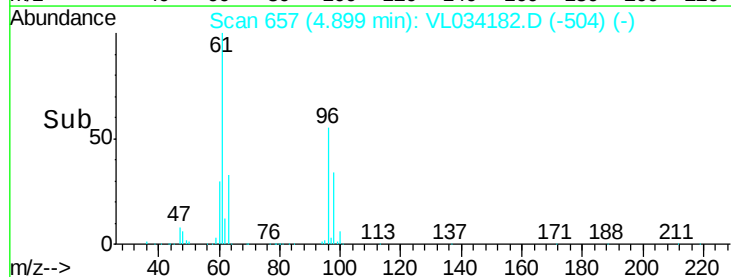
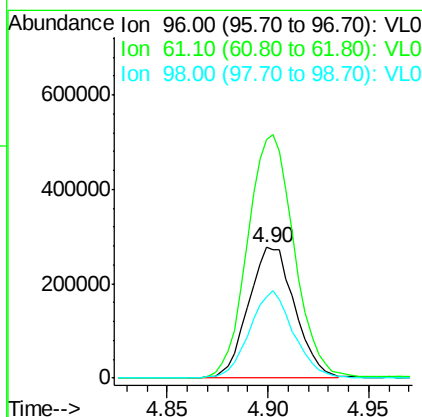
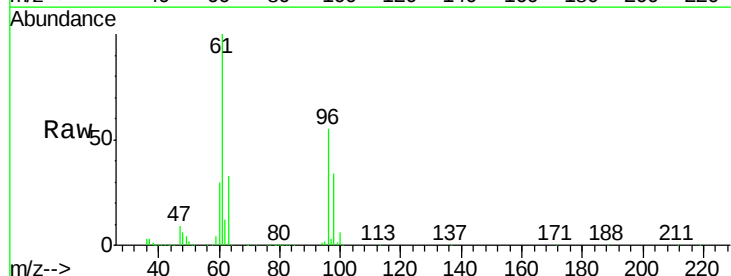
RT: 4.90 min Scan# 657

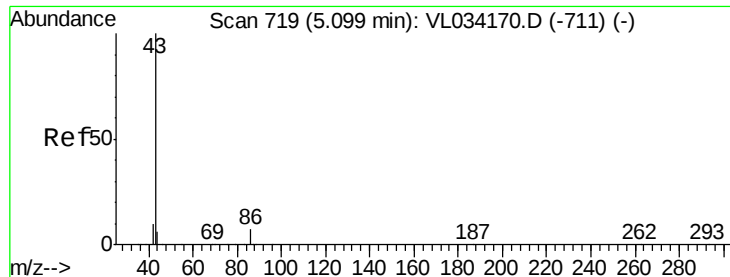
Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tgt Ion:	96	Resp:	446135
Ion	Ratio	Lower	Upper
96	100		
61	182.0	145.5	218.3
98	62.4	49.9	74.9





#23

Vinyl Acetate

Concen: 9.414 ppbv

RT: 5.09 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2227393

Ion Ratio Lower Upper

43 100

86 6.3 5.1 7.7

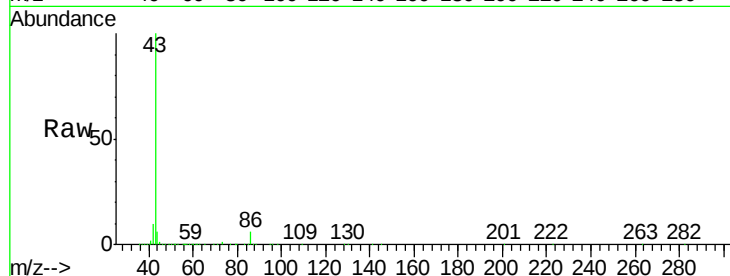
42 9.8 8.6 12.8

44 5.4 4.7 7.1

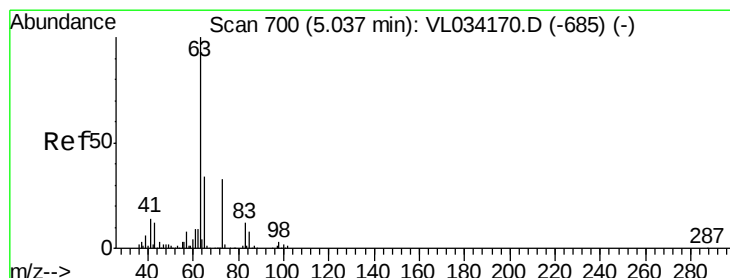
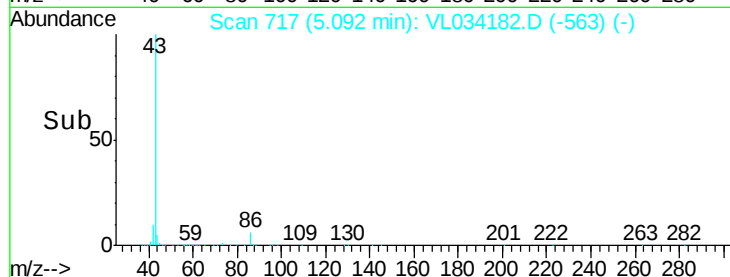
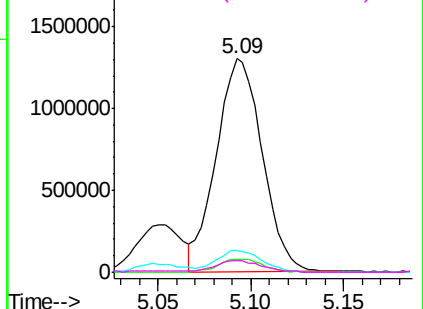
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.205 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

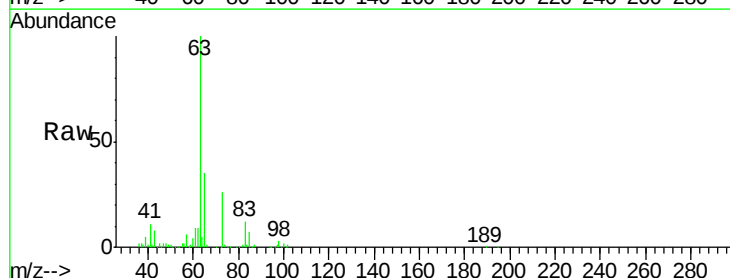
Tgt Ion: 63 Resp: 1466543

Ion Ratio Lower Upper

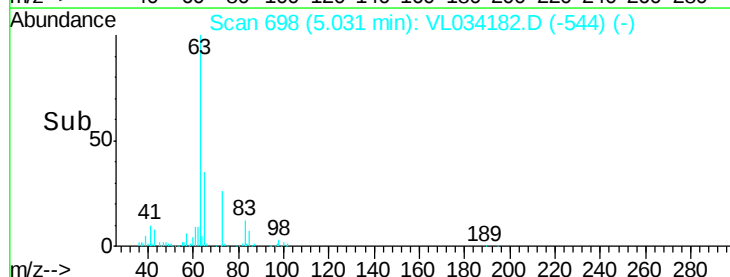
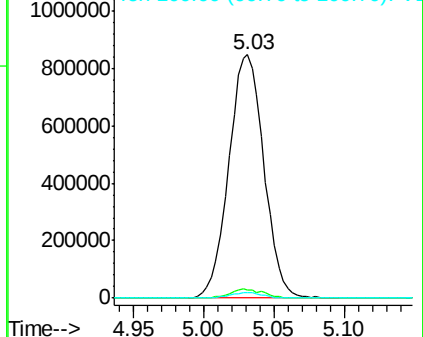
63 100

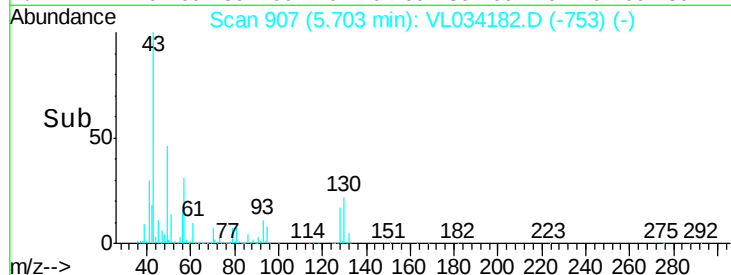
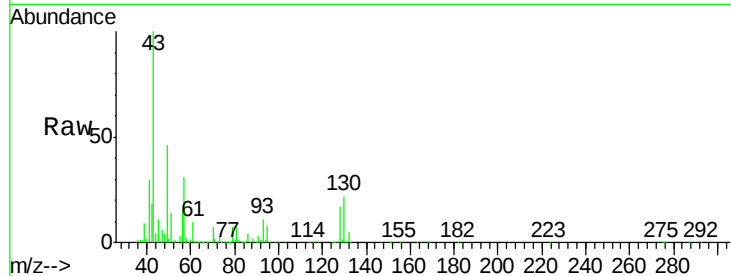
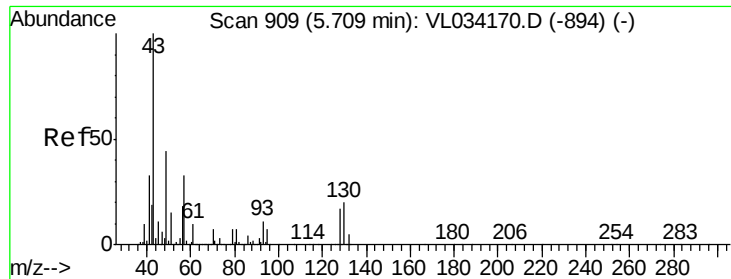
98 3.4 1.8 5.3

100 2.4 1.0 3.0



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: 8.867 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tot Ion: 43 Resp: 2692373

Ion Ratio Lower Upper

43 100

45 10.5 8.4 12.6

61 9.0 7.2 10.8

70 6.5 5.3 7.9

Instrument :

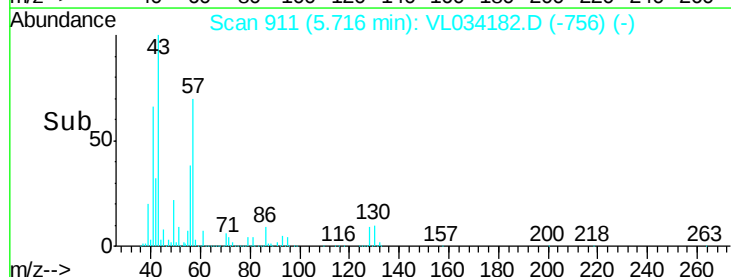
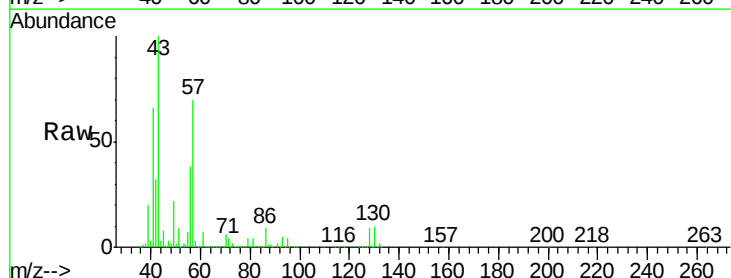
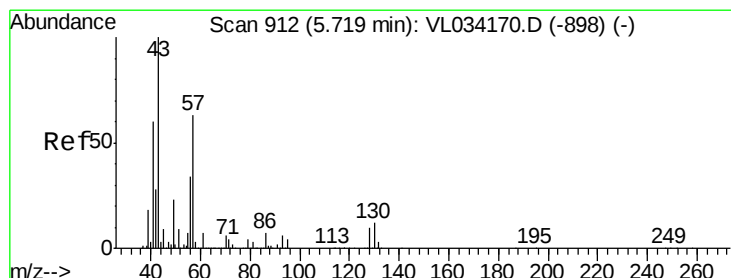
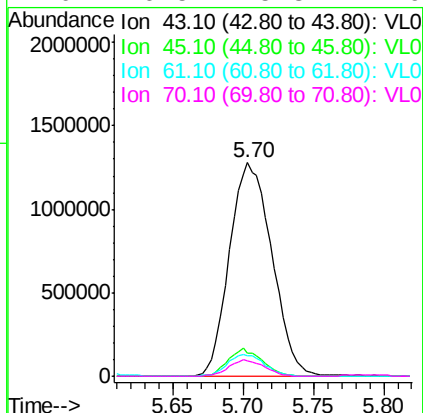
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#26

Hexane

Concen: 9.237 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tgt Ion: 57 Resp: 1166707

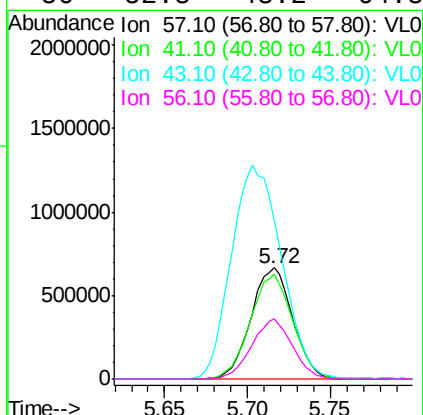
Ion Ratio Lower Upper

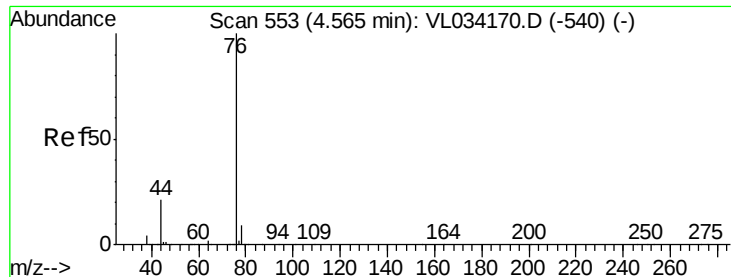
57 100

41 95.9 78.5 117.7

43 232.0 189.5 284.3

56 52.8 43.2 64.8





#27

Carbon Disulfide

Concen: 10.438 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1215899

Ion Ratio Lower Upper

76 100

44 21.4 17.6 26.4

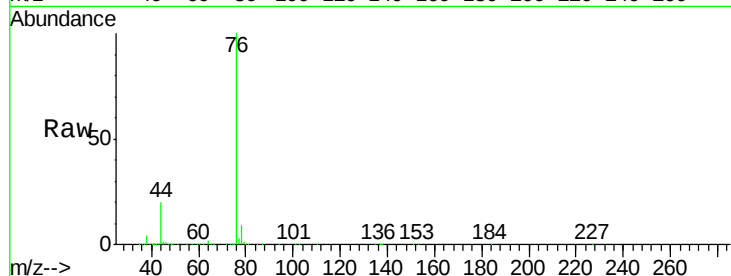
78 9.2 7.6 11.4

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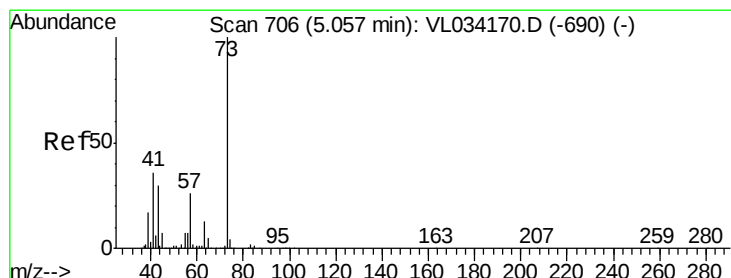
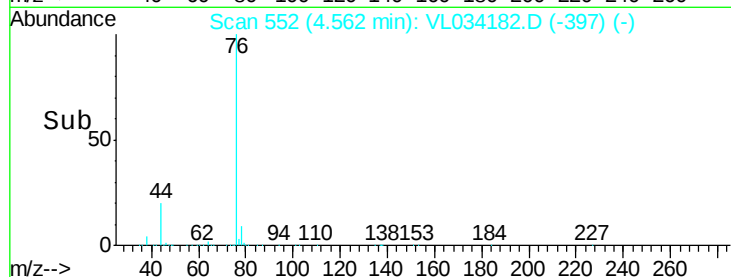
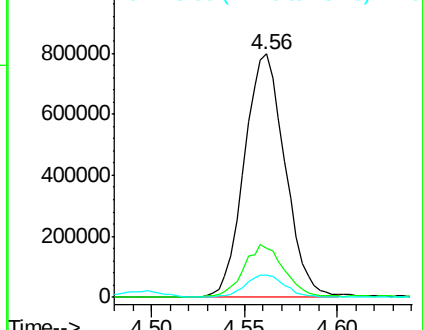
9/20/2019 12:44:08 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.708 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034182.D

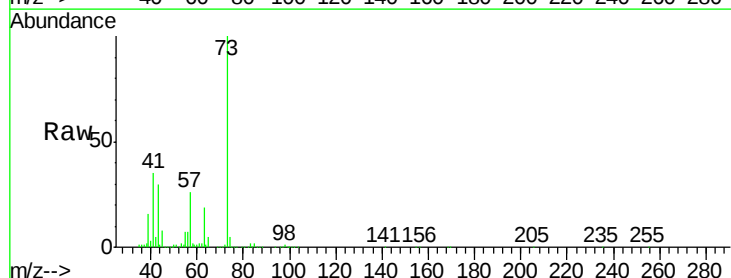
Acq: 17 Sep 2019 14:03

Tgt Ion: 73 Resp: 1821092

Ion Ratio Lower Upper

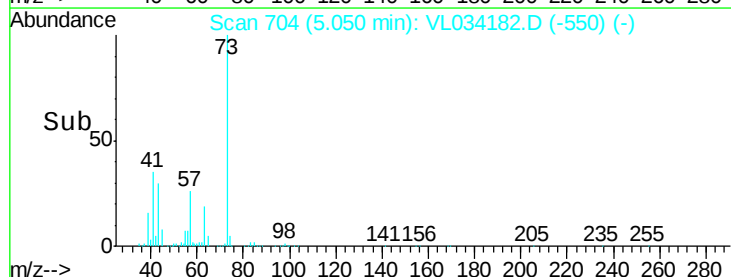
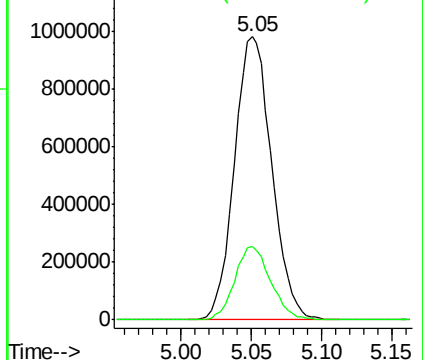
73 100

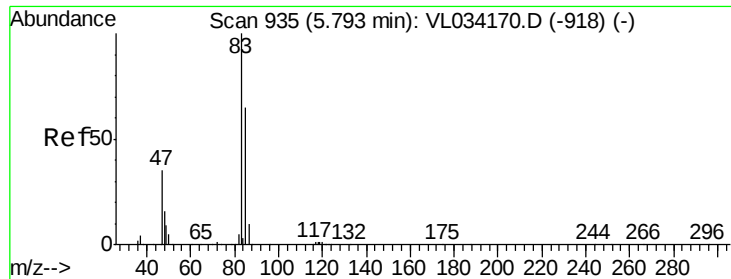
57 25.1 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





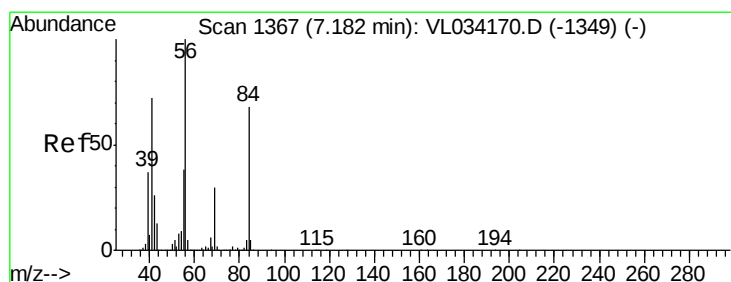
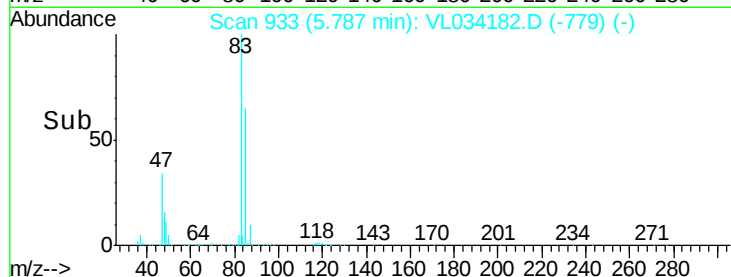
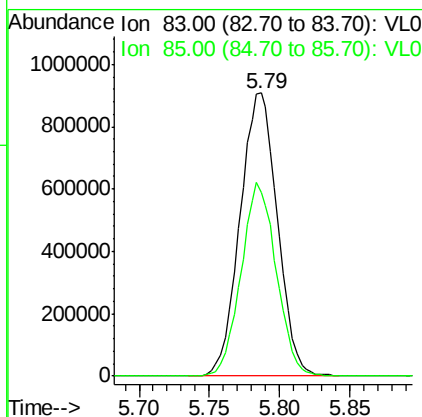
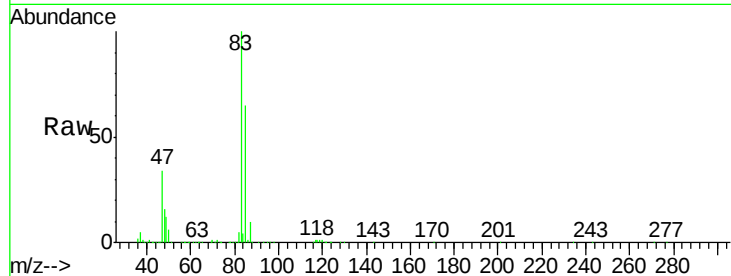
#29
Chloroform
Concen: 9.333 ppbv
RT: 5.79 min Scan# 933
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1684459
Ion Ratio Lower Upper
83 100
85 64.8 52.3 78.5

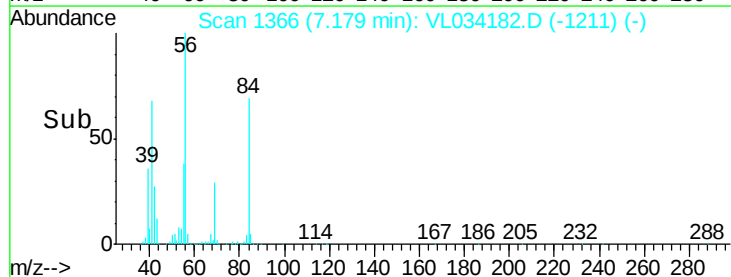
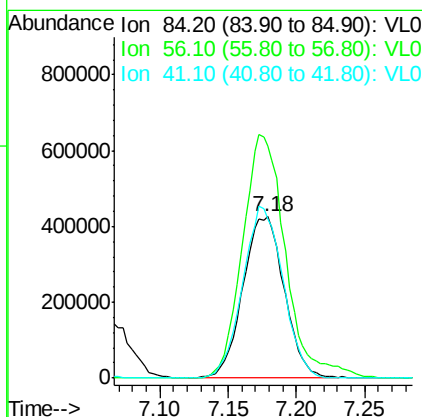
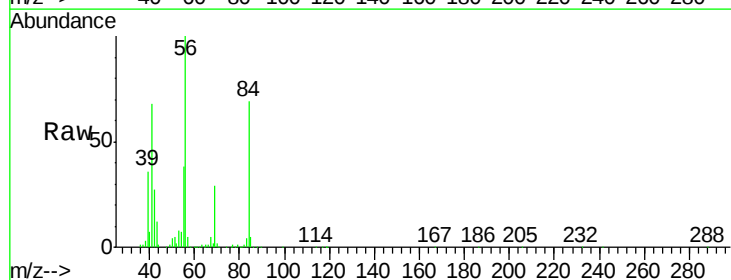
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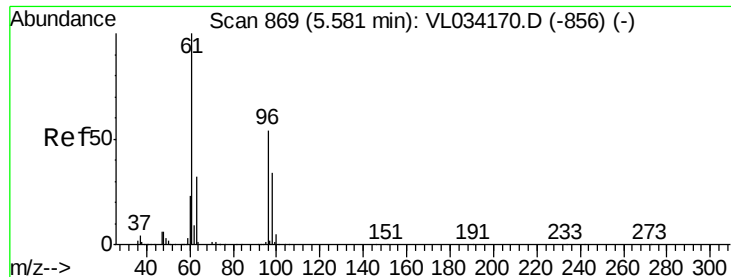
MMDadoda
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#30
Cyclohexane
Concen: 9.823 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion: 84 Resp: 895750
Ion Ratio Lower Upper
84 100
56 157.4 126.2 189.2
41 103.9 85.8 128.8





#31

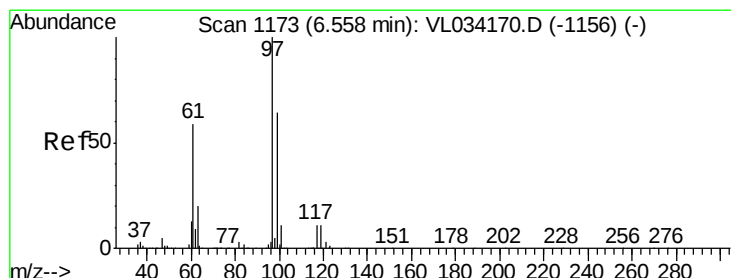
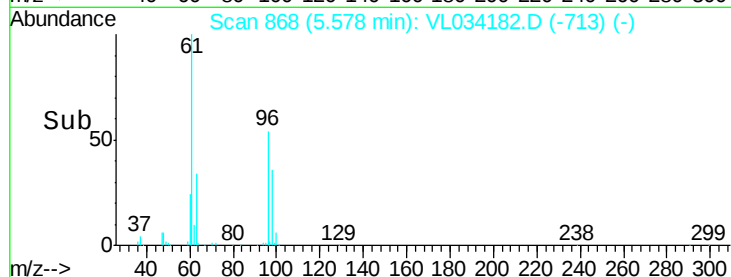
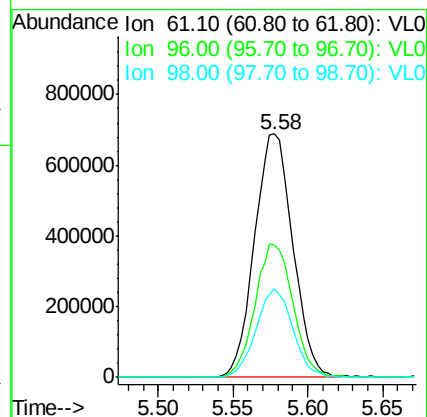
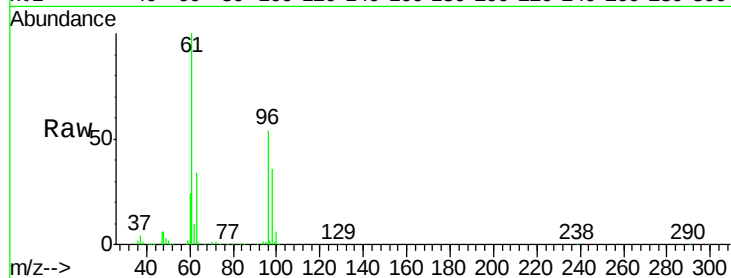
cis-1,2-Dichloroethene
Concen: 9.539 ppbv
RT: 5.58 min Scan# 868
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	54.4	43.0	64.4
98	36.3	27.2	40.8

Manual Integrations
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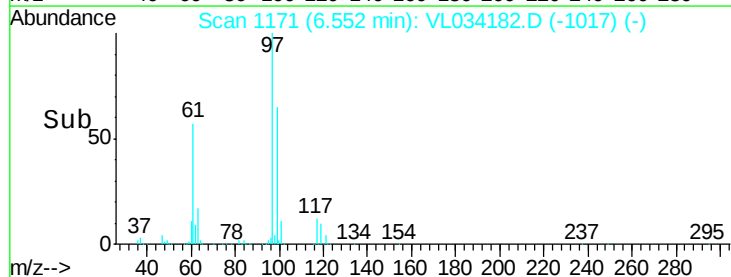
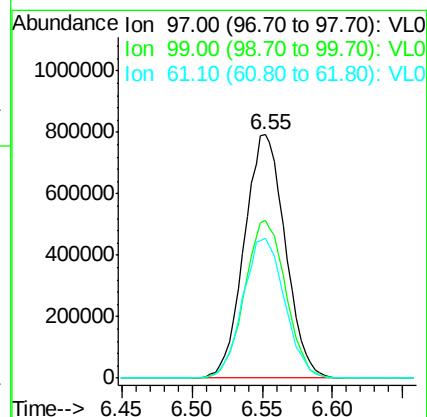
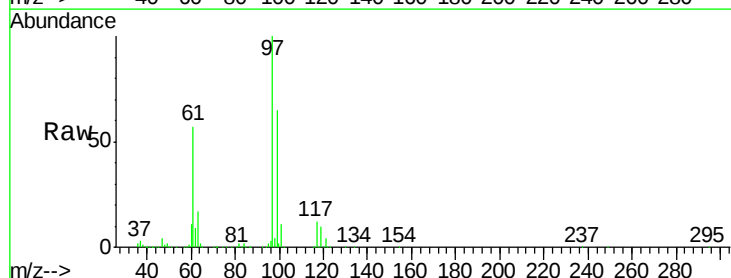
MMDadoda
9/20/2019 12:44:08 AM

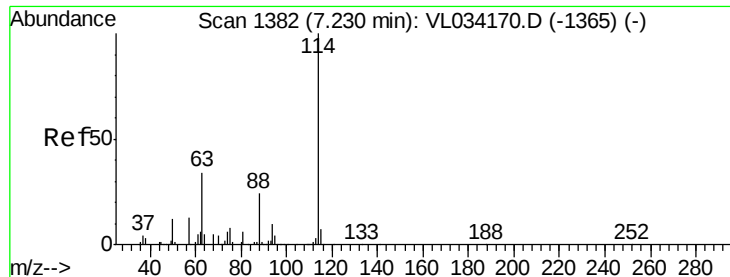


#32

1,1,1-Trichloroethane
Concen: 9.272 ppbv
RT: 6.55 min Scan# 1171
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.2
61	58.8	48.4	72.6





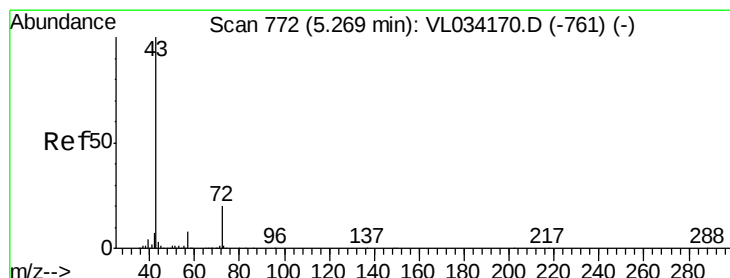
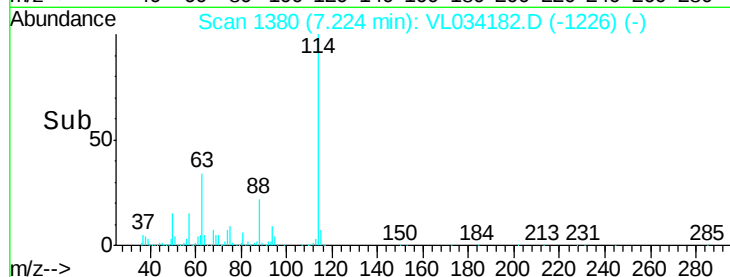
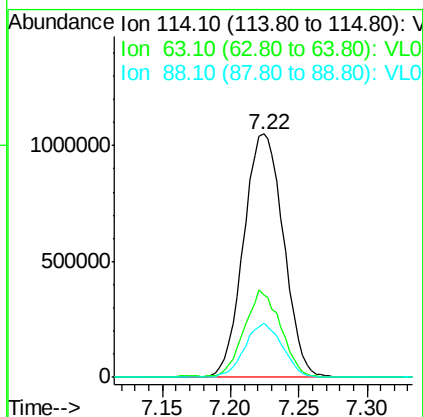
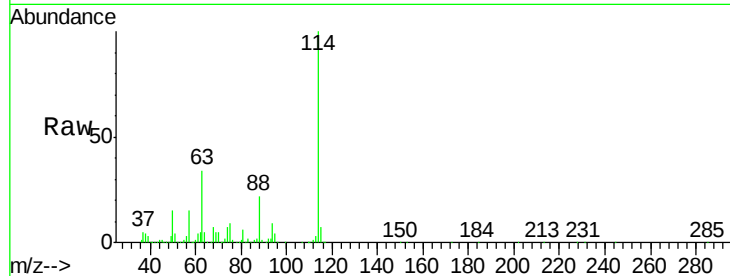
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.5	27.8	41.6
88	21.0	17.1	25.7

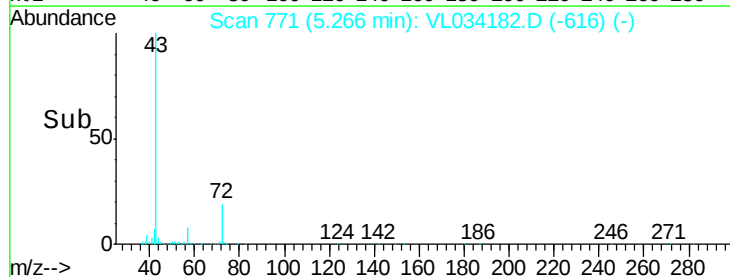
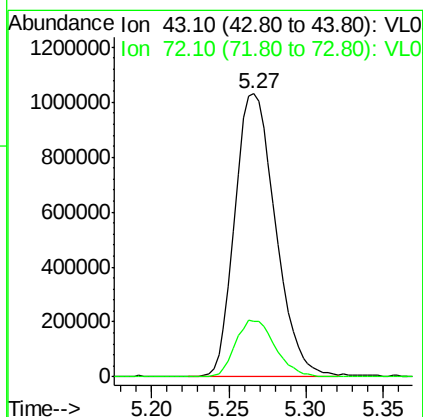
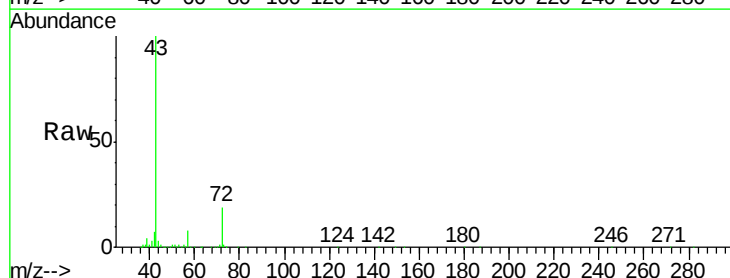
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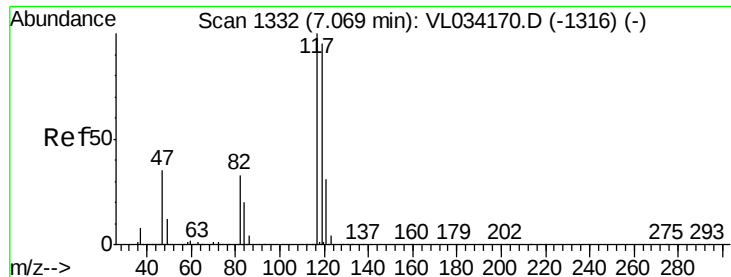
MMDadoda
 9/20/2019 12:44:08 AM



#34
 2-Butanone
 Concen: 8.628 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	15.0	22.6





#35

Carbon Tetrachloride

Concen: 8.870 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 1570508

Ion Ratio Lower Upper

117 100

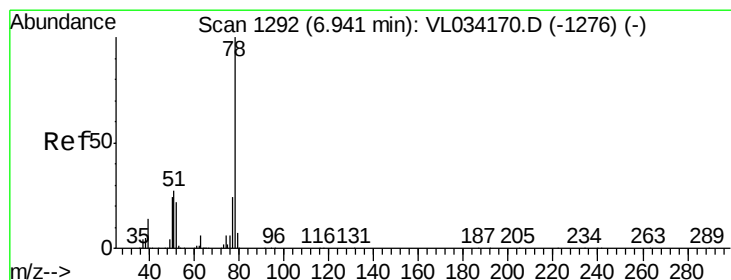
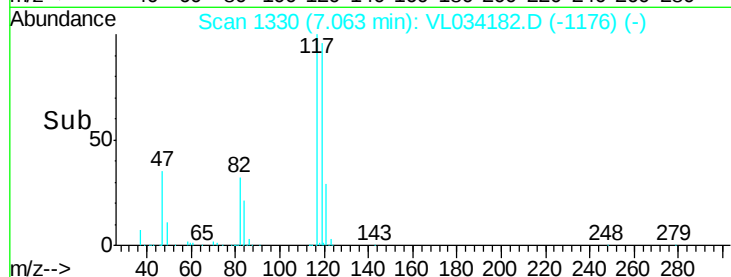
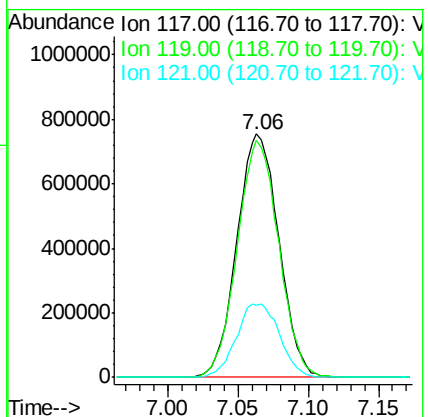
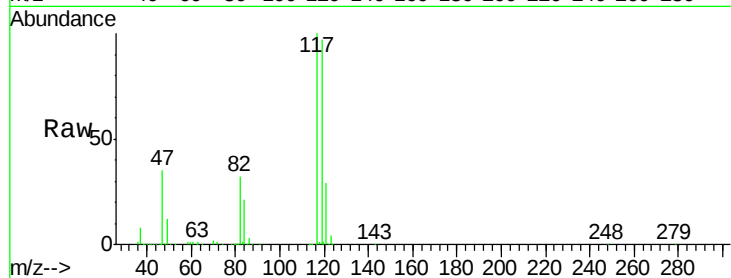
119 97.3 75.8 113.6

121 29.4 25.0 37.6

Manual Integrations
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#36

Benzene

Concen: 9.018 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

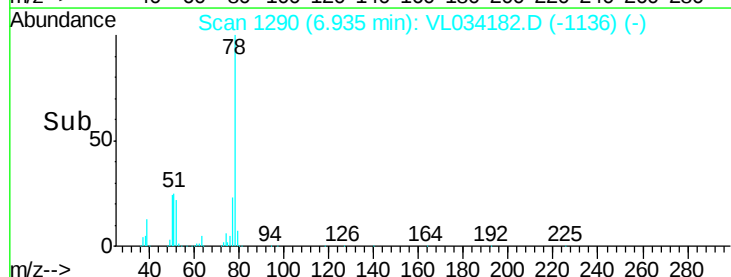
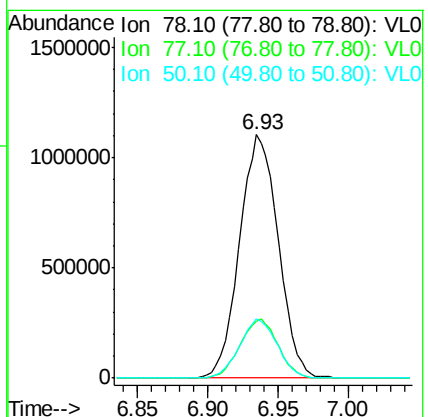
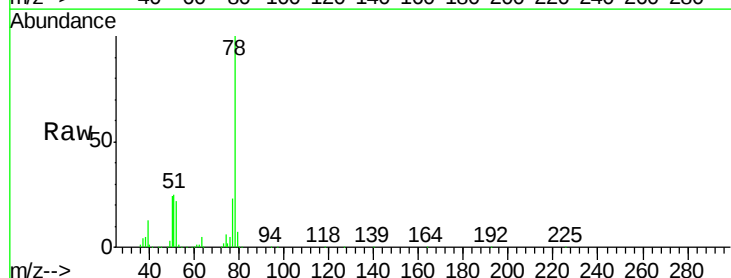
Tgt Ion: 78 Resp: 2122739

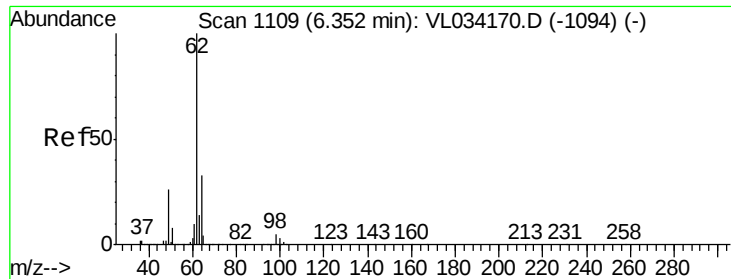
Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.4

50 24.1 18.9 28.3





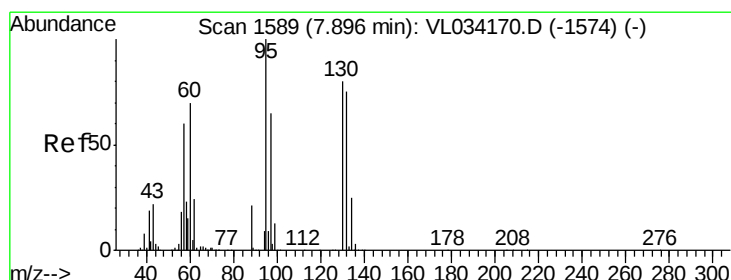
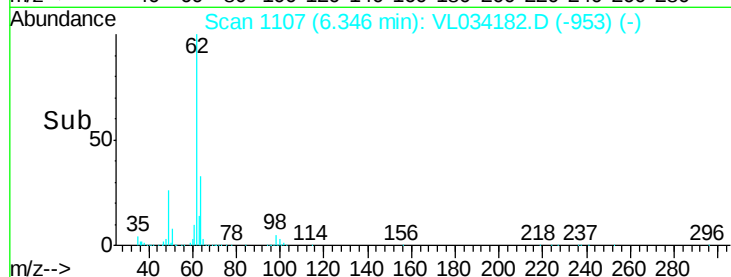
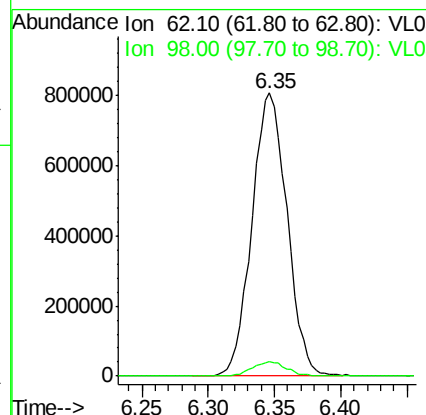
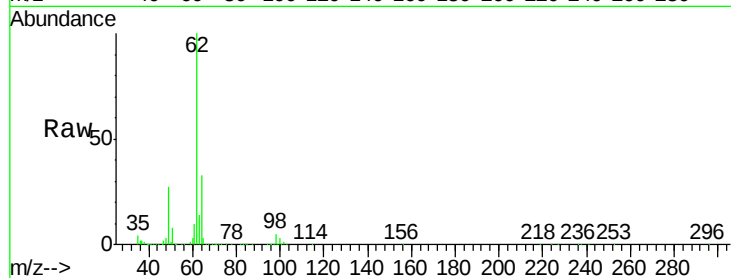
#37
 1,2-Dichloroethane
 Concen: 8.894 ppbv
 RT: 6.35 min Scan# 1107
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.0	3.8	5.8

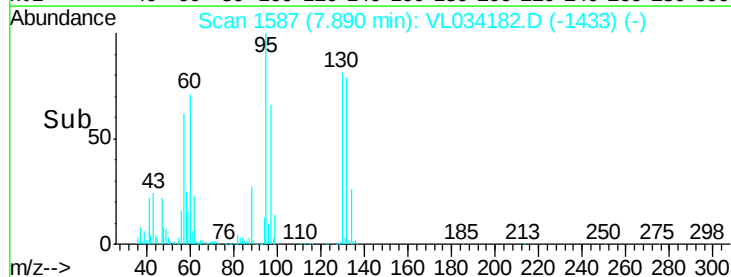
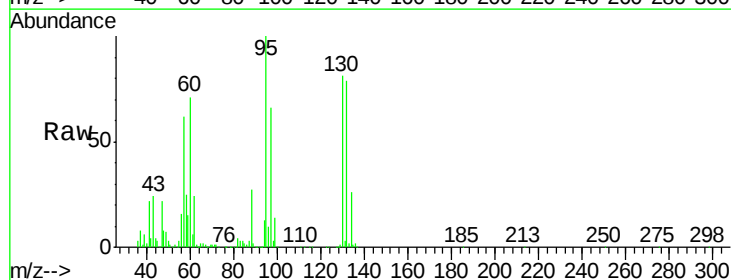
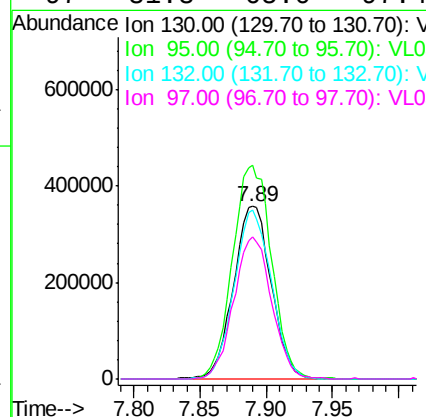
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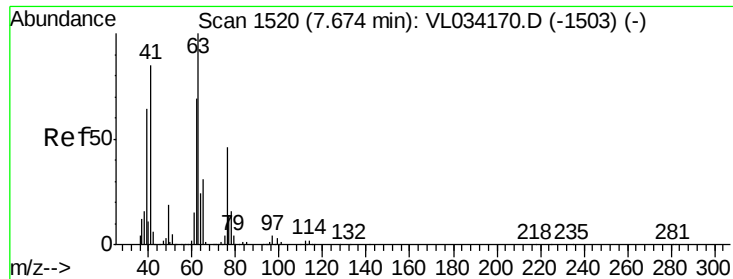
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#38
 Trichloroethene
 Concen: 8.398 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	123.6	99.8	149.6
132	97.6	75.2	112.8
97	81.8	65.0	97.4





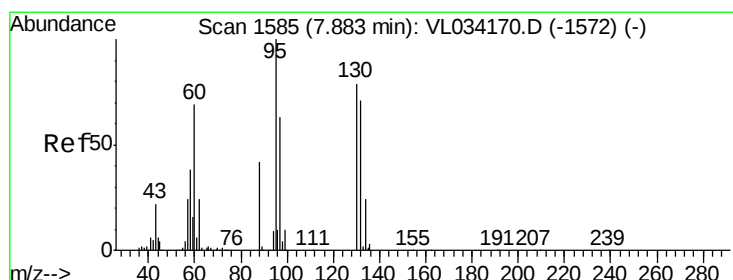
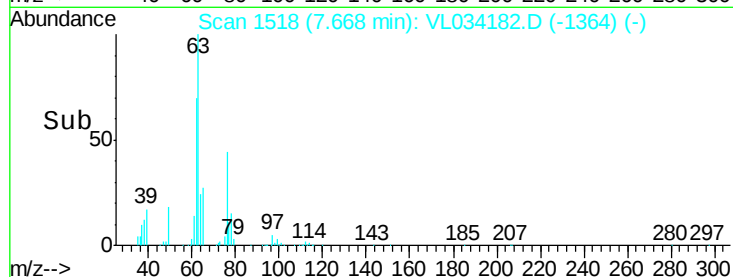
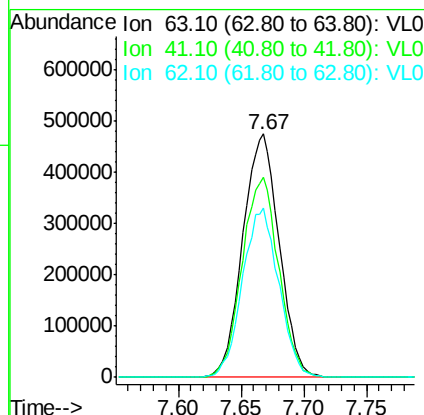
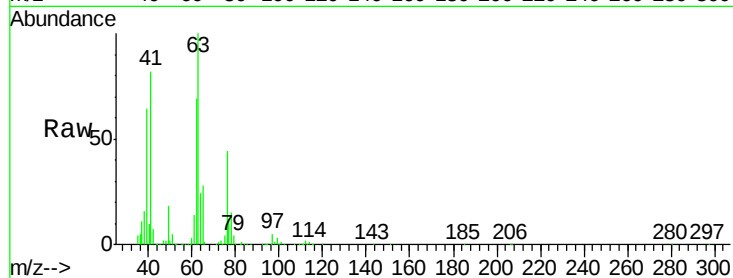
#39
 1,2-Dichloropropane
 Concen: 9.064 ppbv
 RT: 7.67 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	82.1	68.4	102.6
62	69.3	55.4	83.2

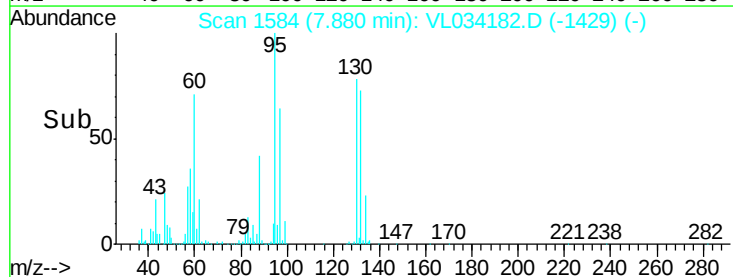
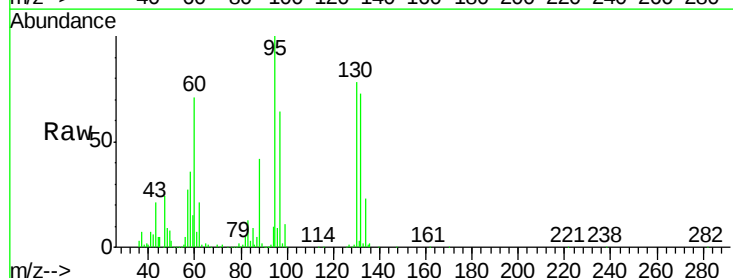
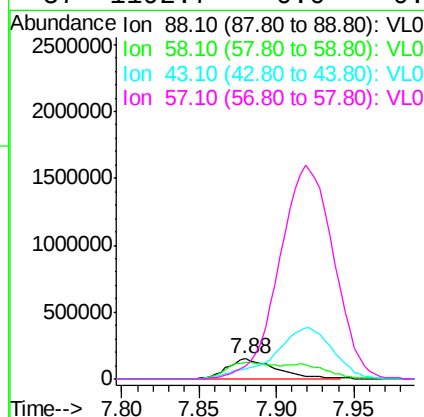
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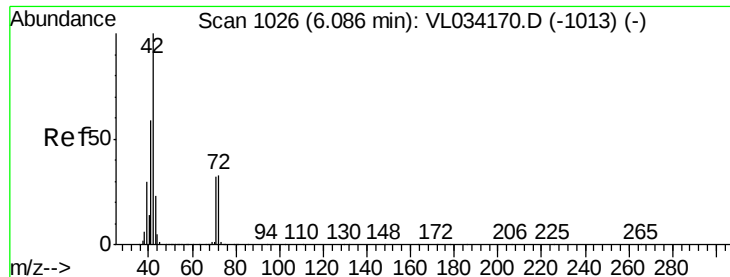
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#40
 1,4-Dioxane
 Concen: 9.594 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	147.5	131.8	197.6
43	313.2	0.0	0.0#
57	1192.7	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.331 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 42 Resp: 1143652

Ion Ratio Lower Upper

42 100

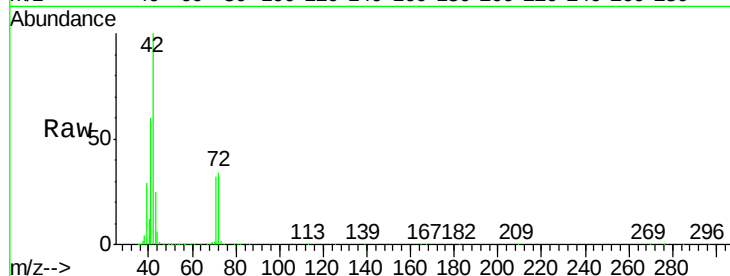
72 33.2 26.6 40.0

71 32.7 25.1 37.7

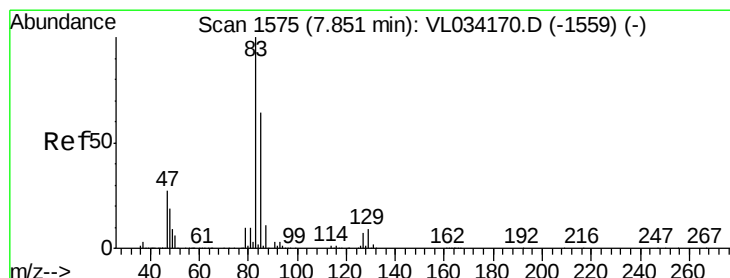
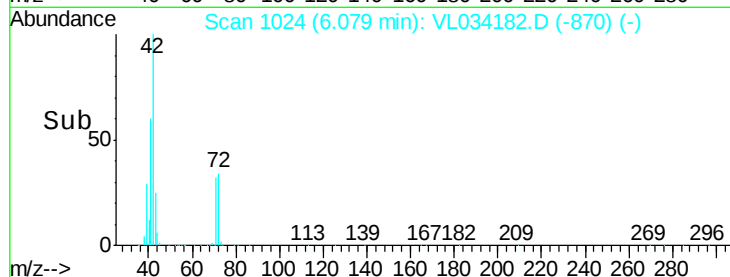
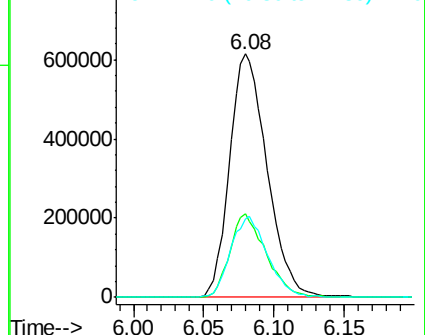
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.177 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

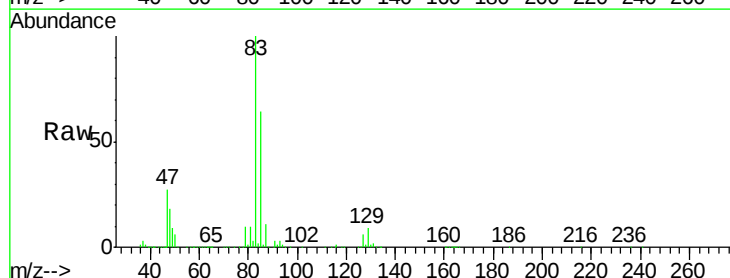
Tgt Ion: 83 Resp: 1843890

Ion Ratio Lower Upper

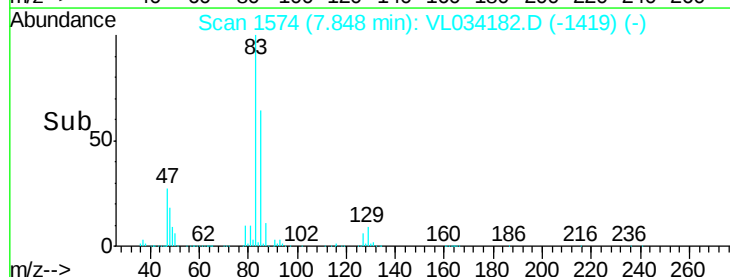
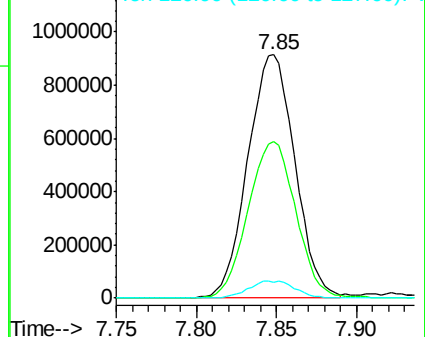
83 100

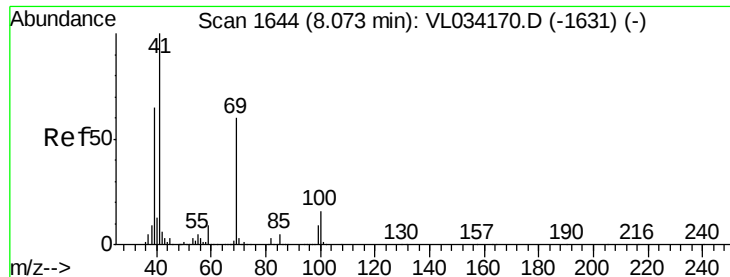
85 64.3 51.4 77.0

127 6.2 5.5 8.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





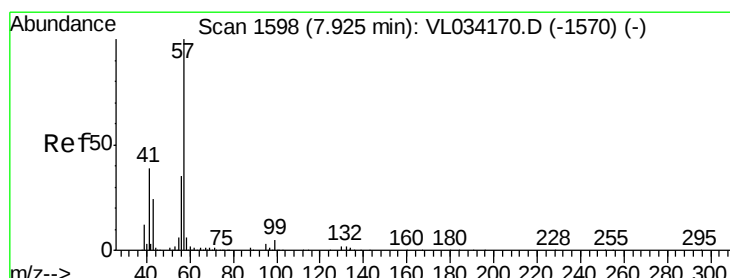
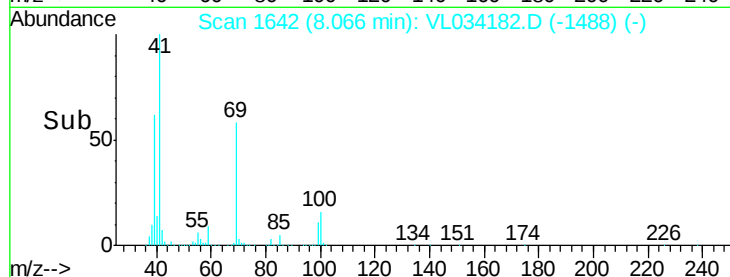
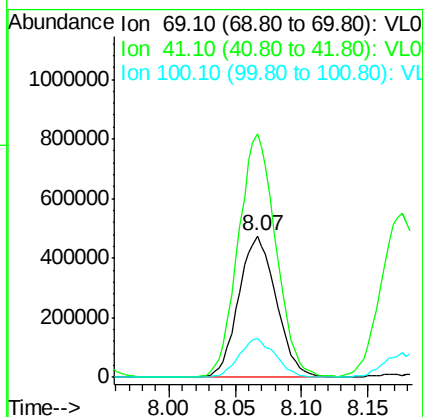
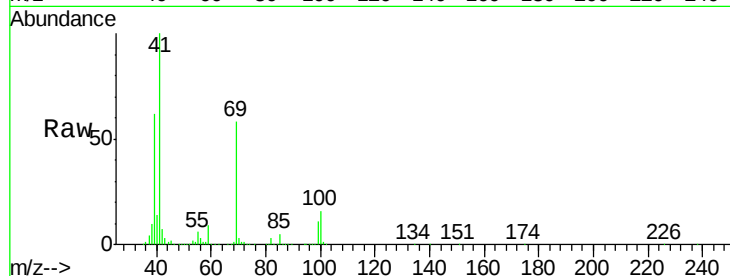
#43
Methvl Methacrilate
Concen: 9.601 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	172.2	140.4	210.6
100	26.8	21.9	32.9

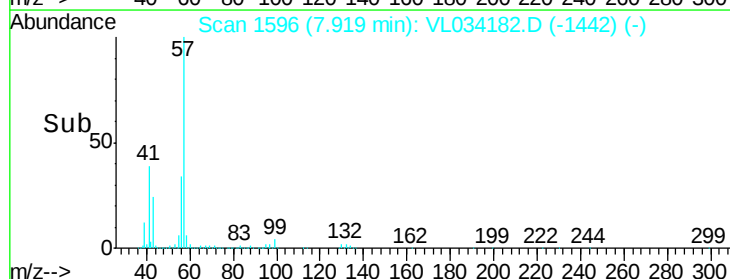
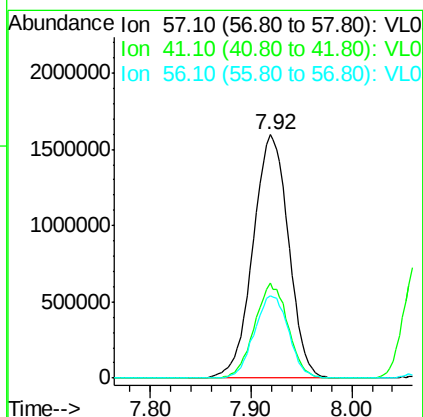
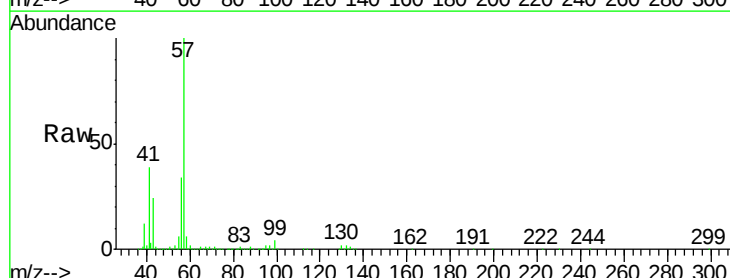
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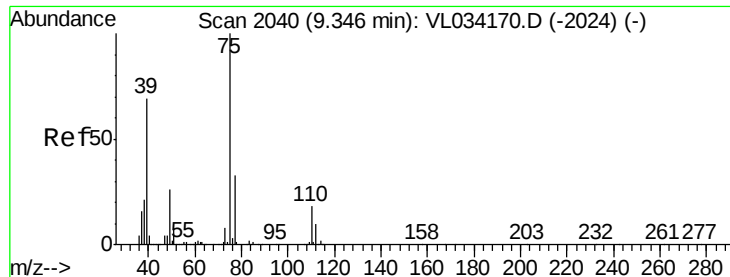
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 8.627 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.5	29.8	44.6
56	32.5	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 10.447 ppbv

RT: 9.35 min Scan# 2040

Delta R.T. 0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tot Ion: 75 Resp: 1201106

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

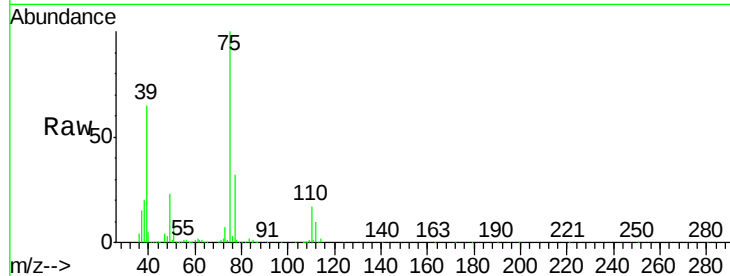
VSTDCCC010EC

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

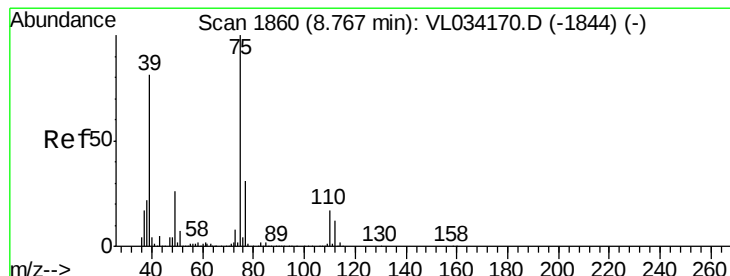
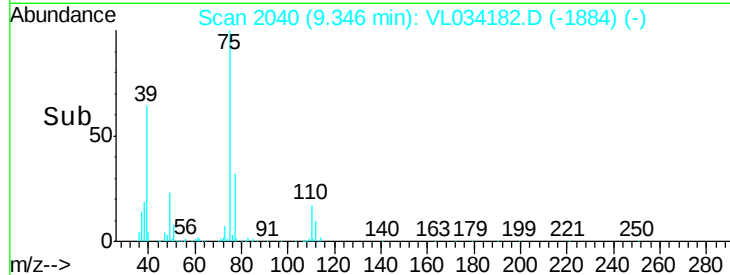
400000

200000

0

9.25 9.30 9.35 9.40

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.900 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

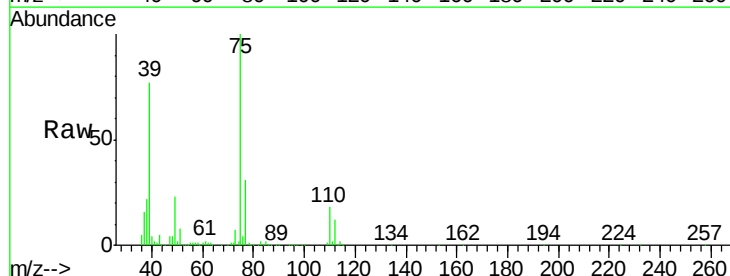
Tgt Ion: 75 Resp: 1369192

Ion Ratio Lower Upper

75 100

39 77.2 65.0 97.4

77 30.7 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

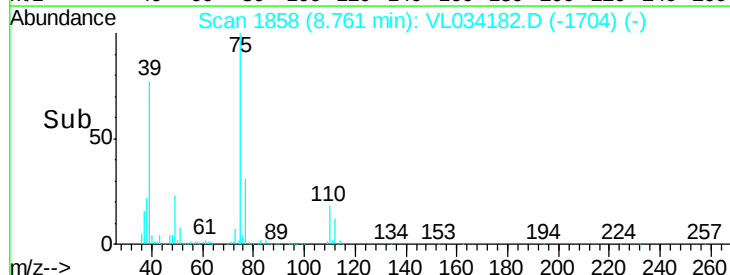
400000

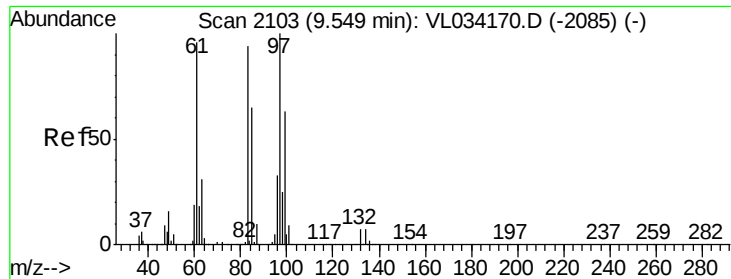
200000

0

8.70 8.75 8.80 8.85

Time-->





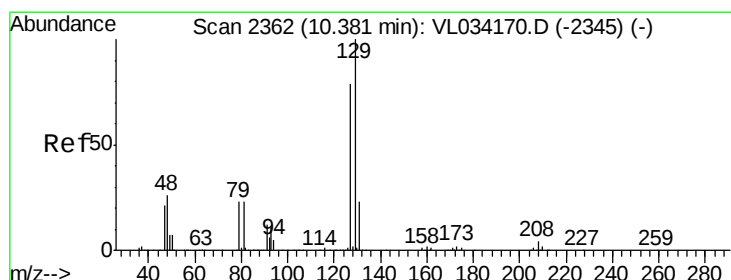
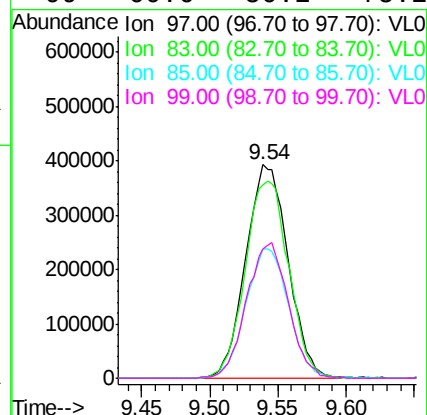
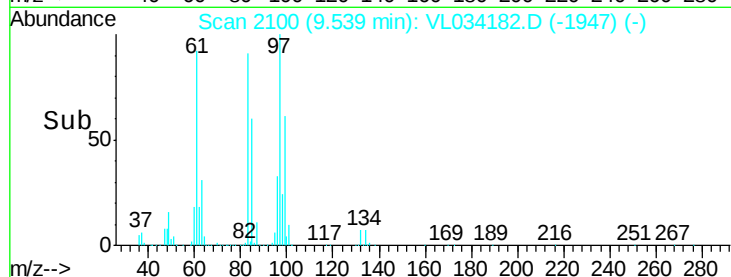
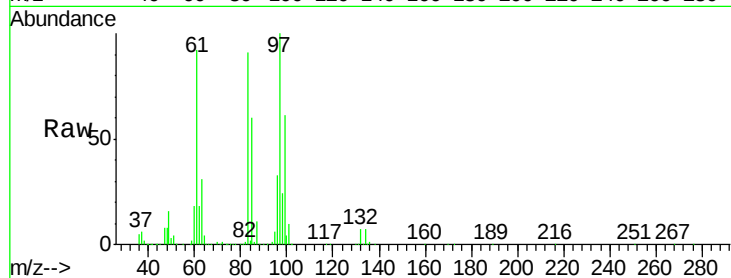
#47
 1,1,2-Trichloroethane
 Concen: 8.936 ppbv
 RT: 9.54 min Scan# 2100
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.7	75.3	112.9
85	60.4	52.1	78.1
99	60.6	50.2	75.2

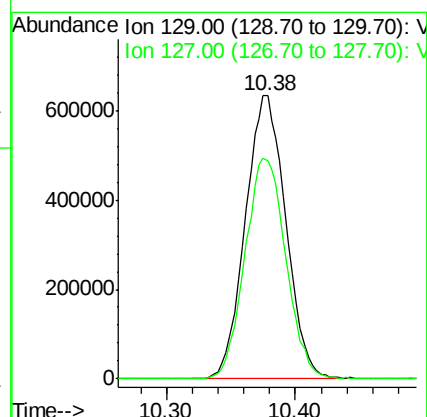
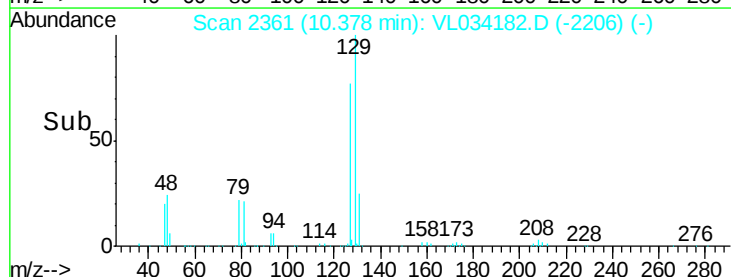
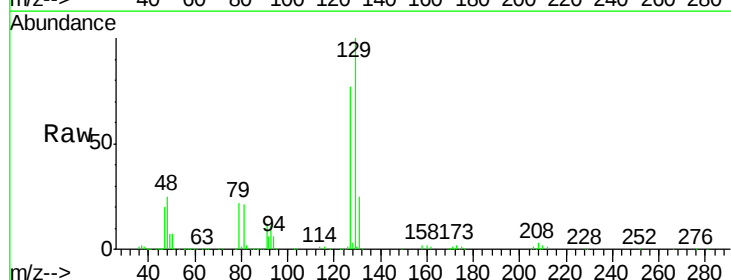
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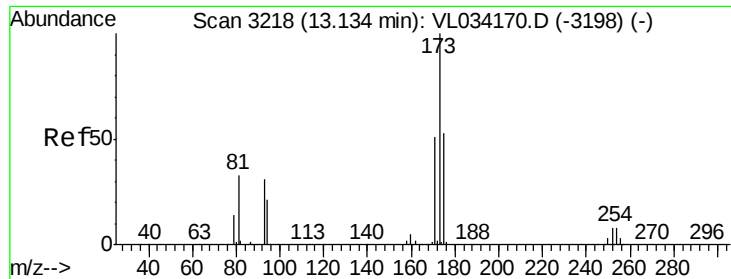
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#48
 Dibromochloromethane
 Concen: 9.184 ppbv
 RT: 10.38 min Scan# 2361
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.2	117.6





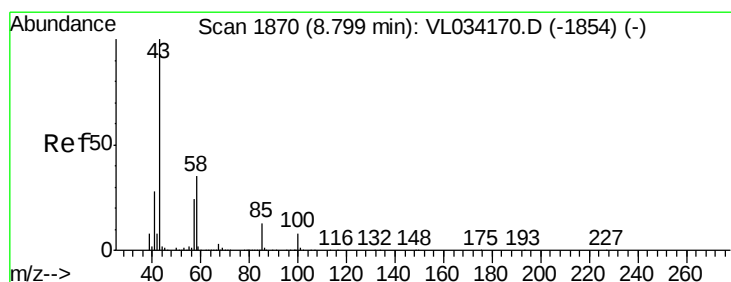
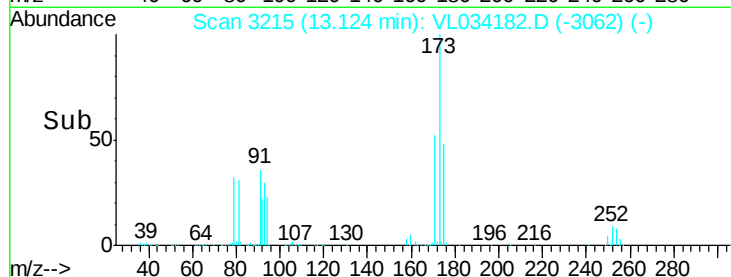
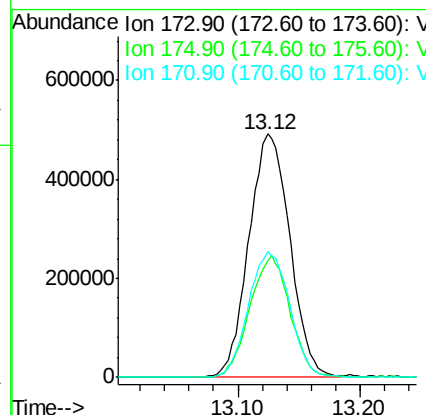
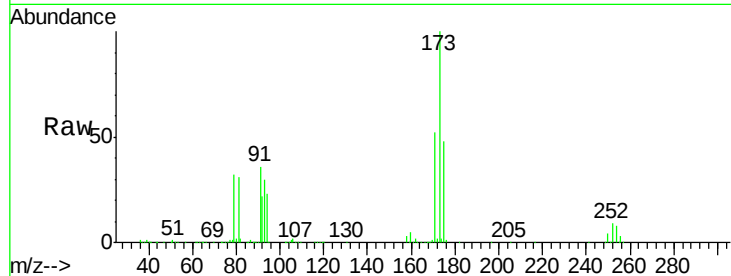
#49
Bromoform
Concen: 9.387 ppbv
RT: 13.12 min Scan# 3215
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	40.3	60.5
171	52.1	42.0	63.0

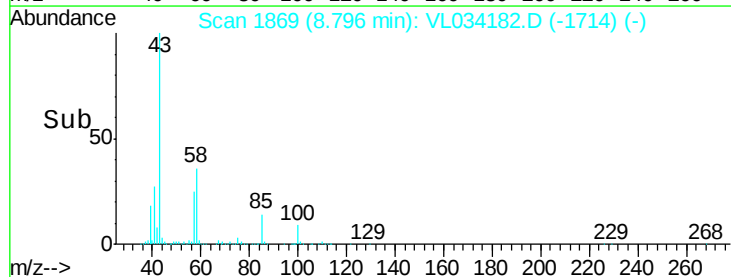
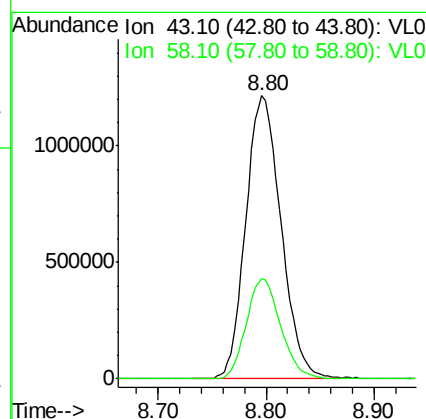
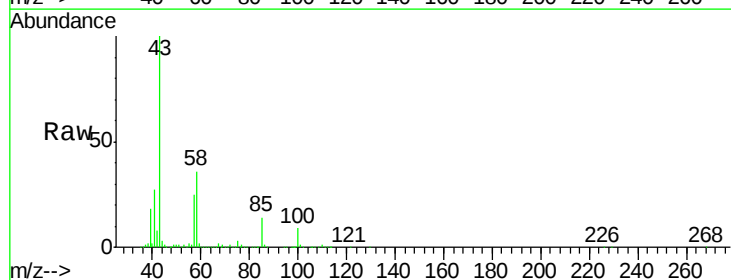
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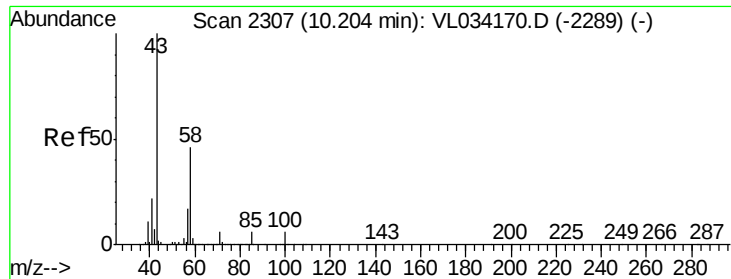
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#50
4-Methyl-2-Pentanone
Concen: 8.745 ppbv
RT: 8.80 min Scan# 1869
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.6	27.6	41.4





#51

2-Hexanone

Concen: 8.826 ppbv

RT: 10.19 min Scan# 2304

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2345738

Ion Ratio Lower Upper

43 100

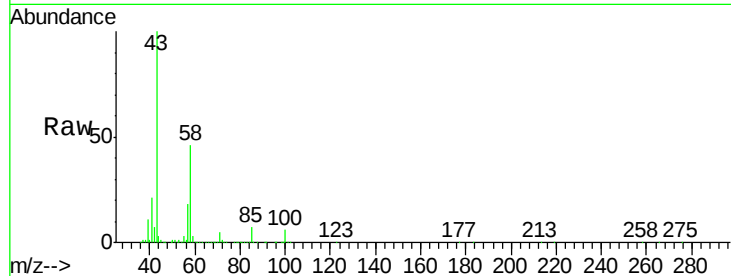
58 46.0 36.2 54.4

98 0.1 0.2 0.2#

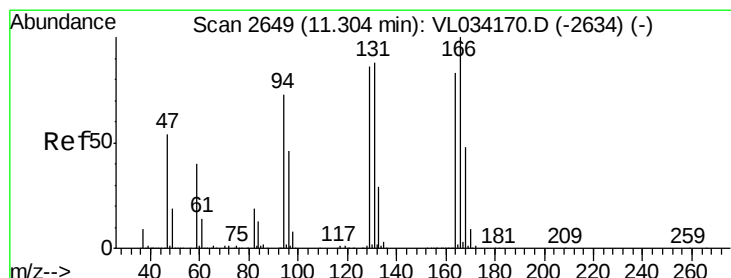
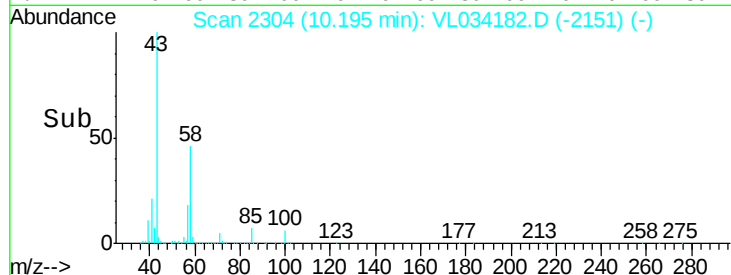
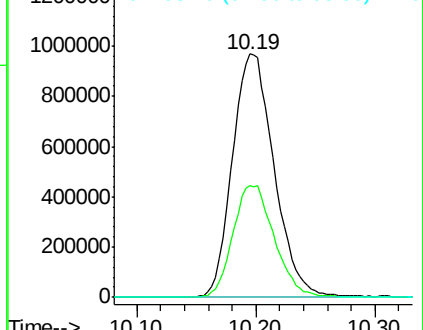
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.508 ppbv

RT: 11.30 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tgt Ion: 164 Resp: 661617

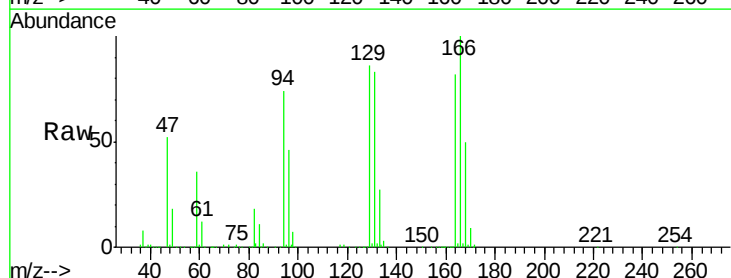
Ion Ratio Lower Upper

164 100

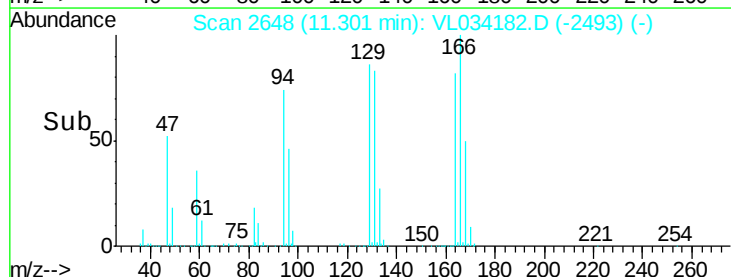
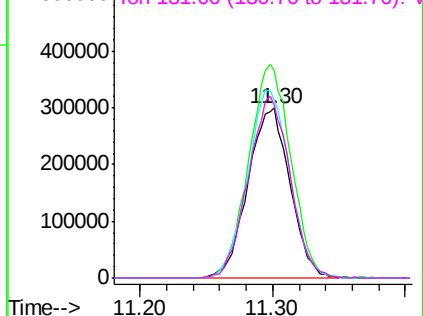
166 122.0 96.7 145.1

129 104.6 82.8 124.2

131 101.5 85.0 127.6



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.171 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2359171

Ion Ratio Lower Upper

91 100

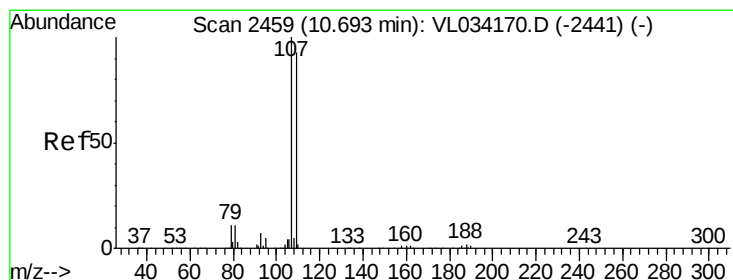
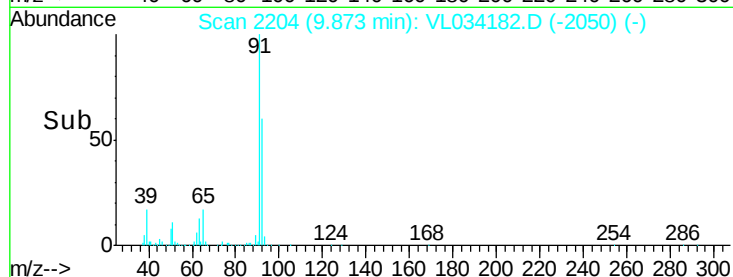
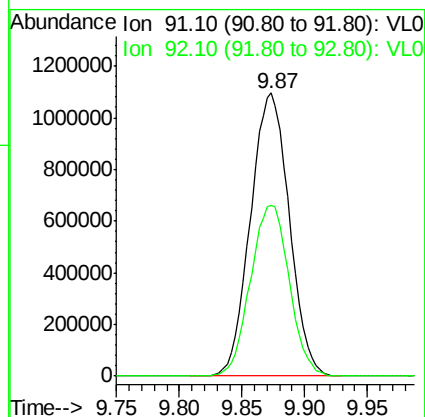
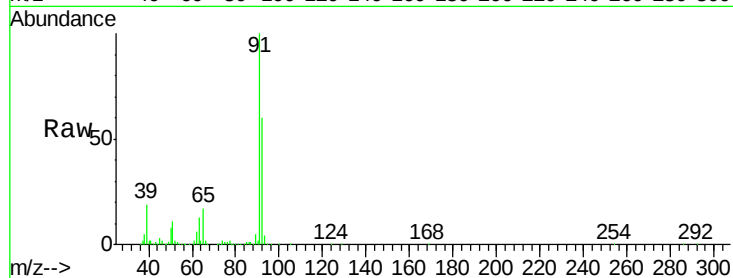
92 60.5 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 8.855 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034182.D

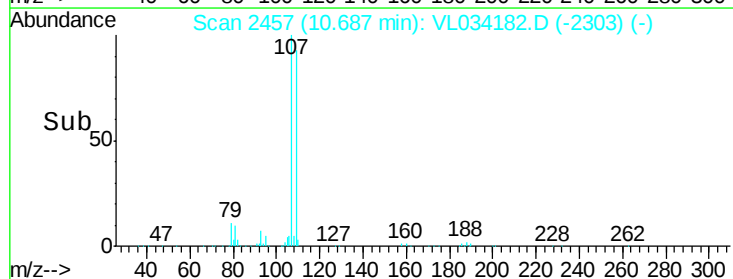
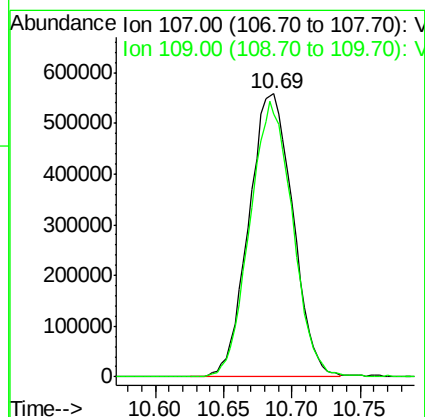
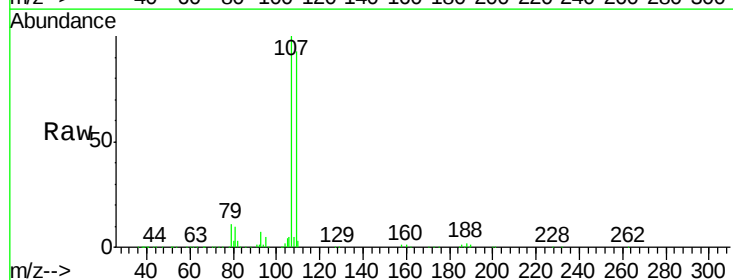
Acq: 17 Sep 2019 14:03

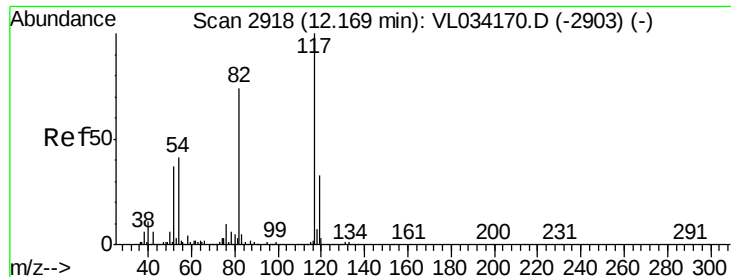
Tgt Ion: 107 Resp: 1250561

Ion Ratio Lower Upper

107 100

109 92.8 74.5 111.7





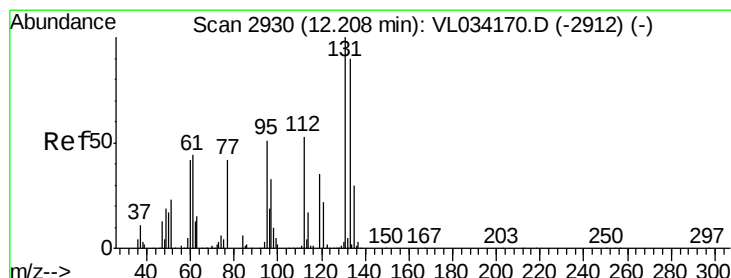
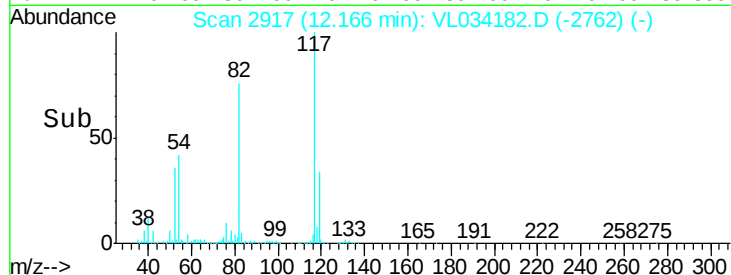
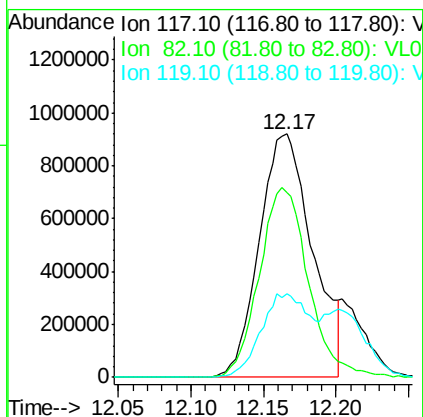
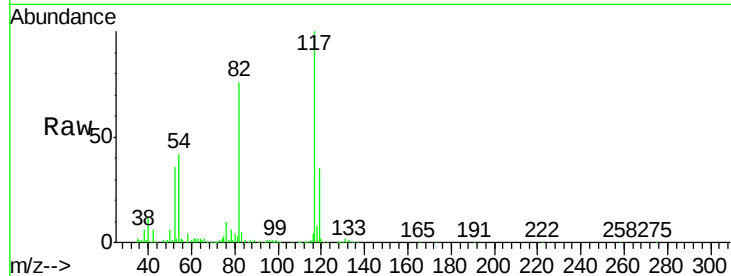
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2346784
Ion Ratio Lower Upper
117 100
82 72.4 58.2 87.4
119 32.2 23.7 35.5

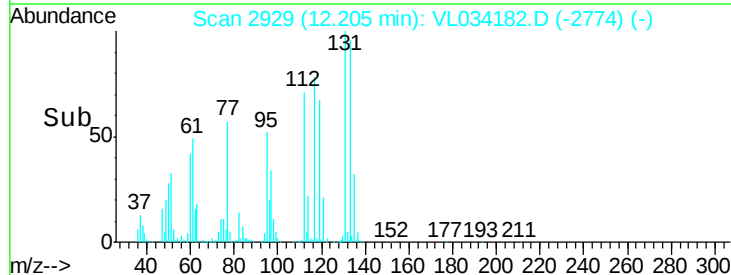
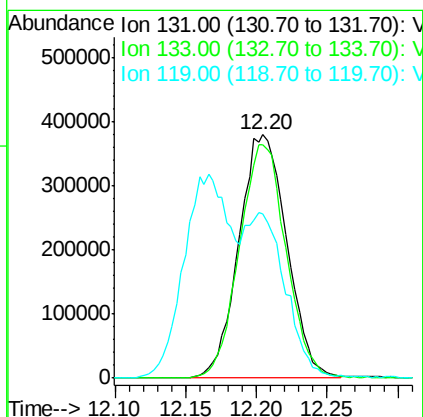
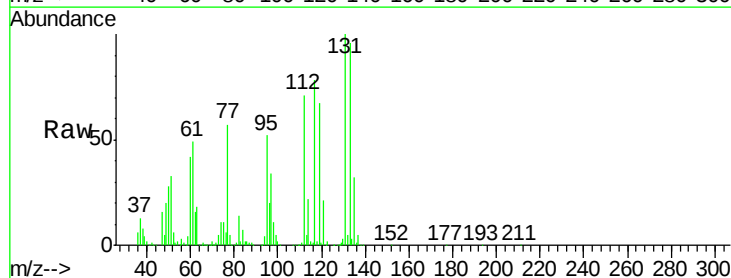
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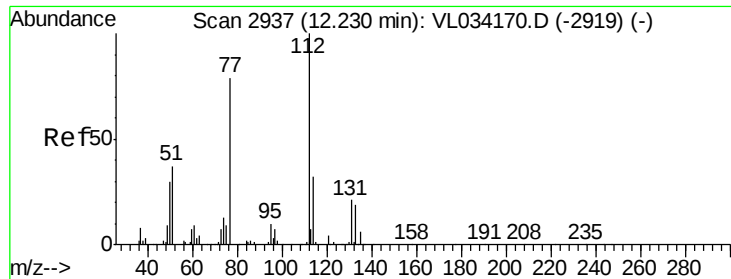
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.552 ppbv m
RT: 12.20 min Scan# 2929
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion:131 Resp: 895045
Ion Ratio Lower Upper
131 100
133 93.8 75.1 112.7
119 56.9 47.4 71.0





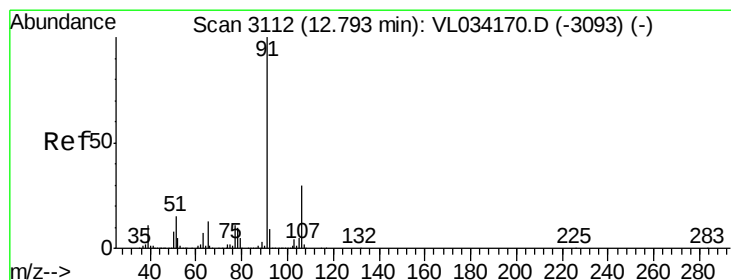
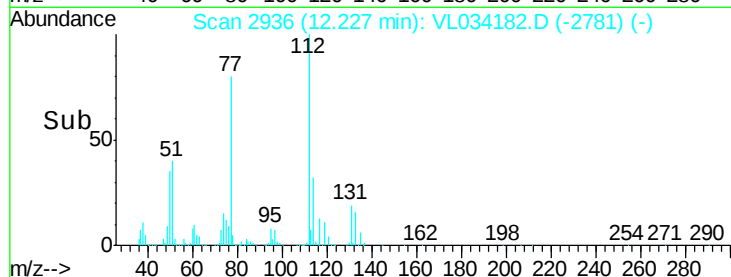
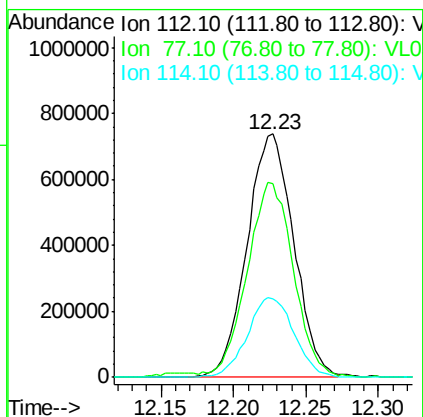
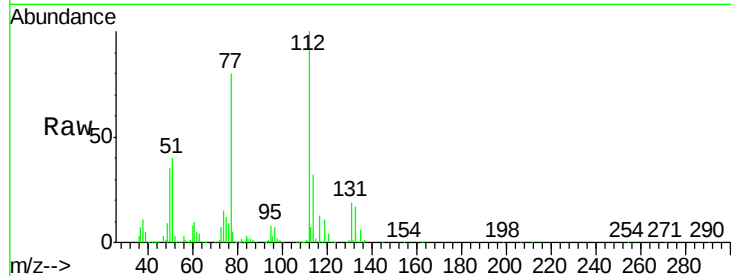
#57
Chlorobenzene
Concen: 8.069 ppbv
RT: 12.23 min Scan# 2936
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	79.0	64.3	96.5
114	31.9	28.9	35.3

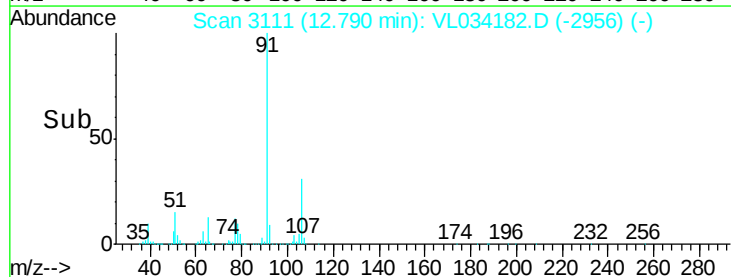
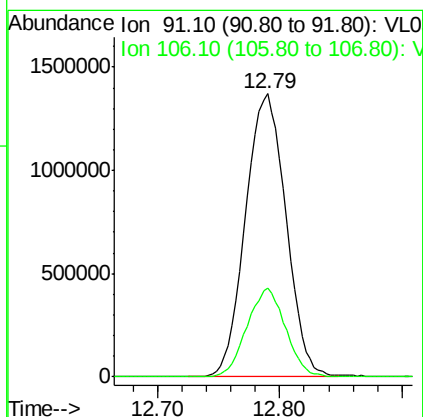
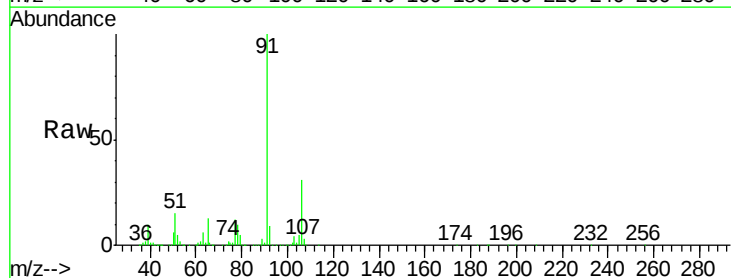
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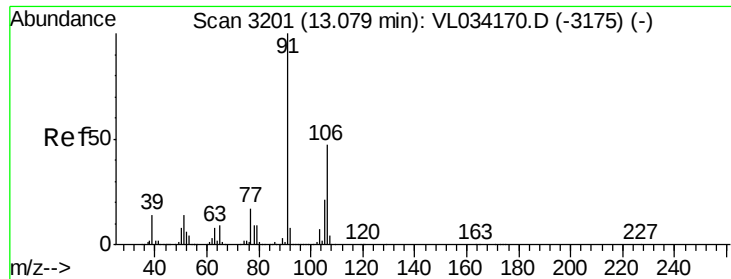
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#58
Ethyl Benzene
Concen: 8.308 ppbv
RT: 12.79 min Scan# 3111
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.4	24.2	36.4





#59

m/p-Xylene

Concen: 16.300 ppbv m

RT: 13.08 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5112202

Ion Ratio Lower Upper

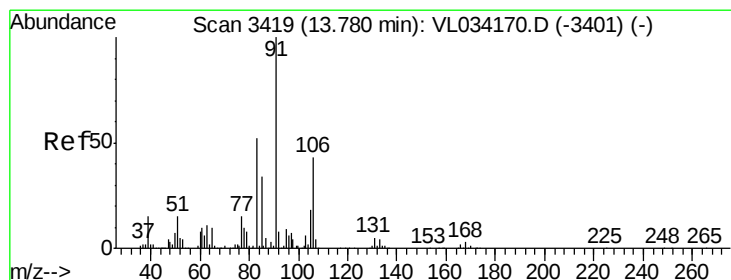
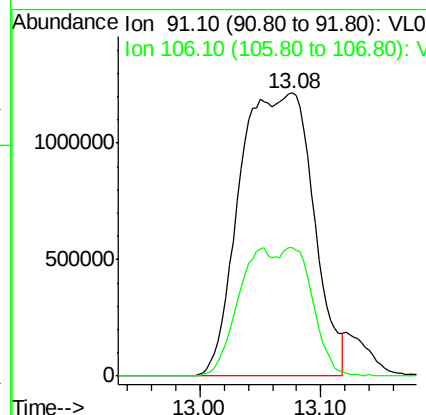
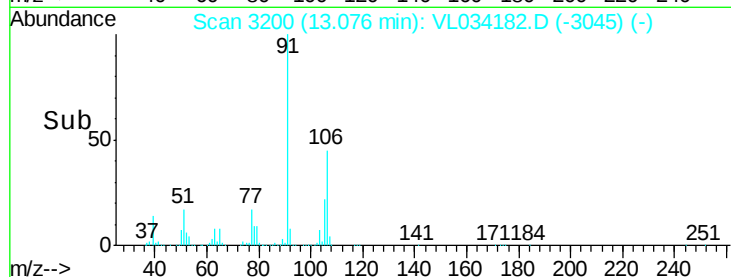
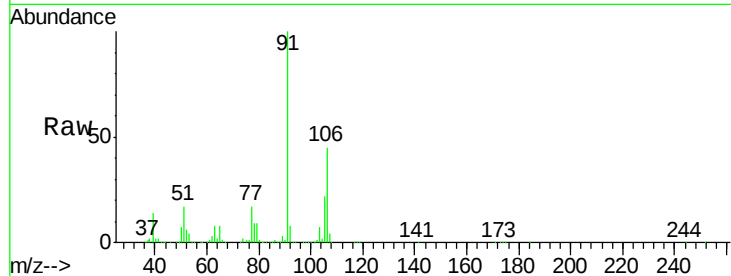
91 100

106 0.0 35.5 53.3#

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#60

o-Xylene

Concen: 8.086 ppbv

RT: 13.78 min Scan# 3418

Delta R.T. -0.00 min

Lab File: VL034182.D

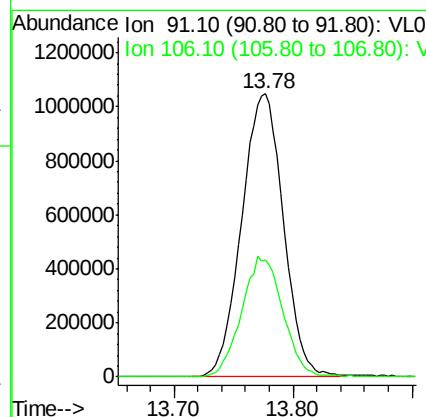
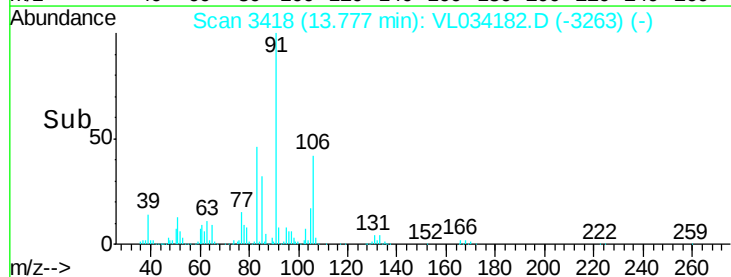
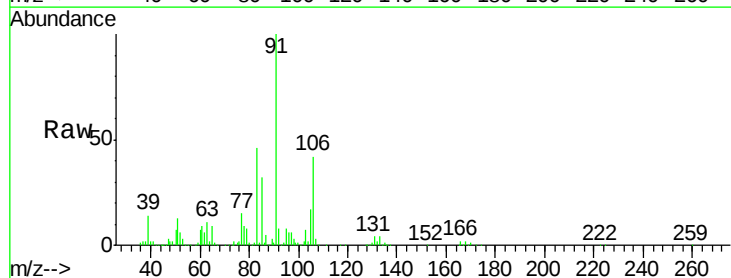
Acq: 17 Sep 2019 14:03

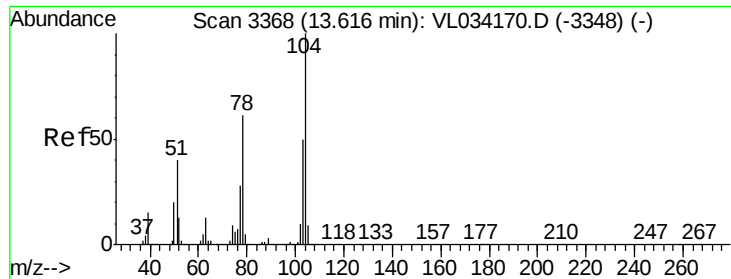
Tgt Ion: 91 Resp: 2535923

Ion Ratio Lower Upper

91 100

106 42.2 21.2 63.6





#61

Stvrene

Concen: 8.521 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1914260

Ion Ratio Lower Upper

104 100

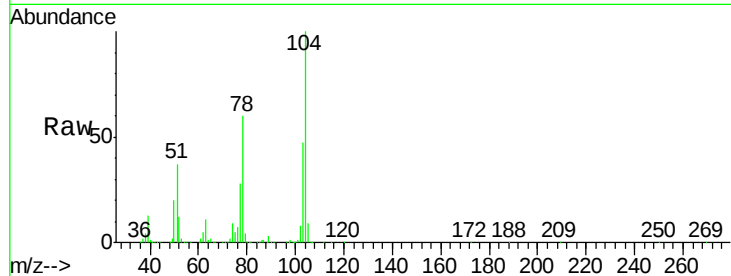
78 61.5 49.7 74.5

103 48.1 38.4 57.6

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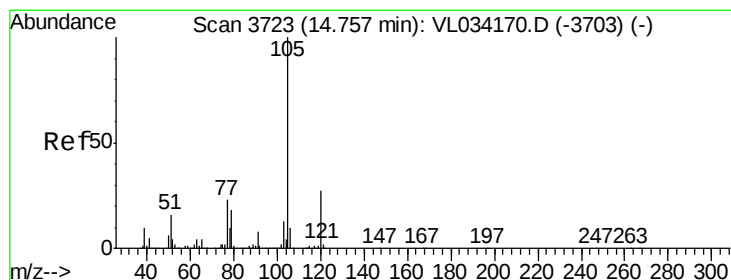
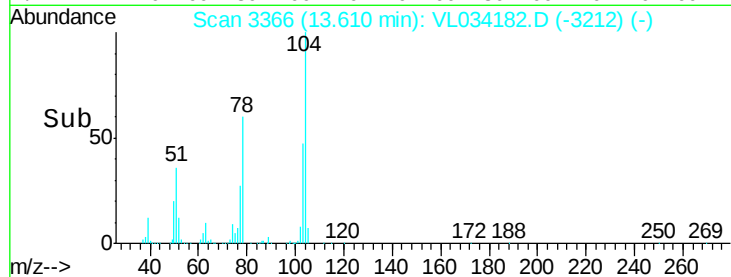
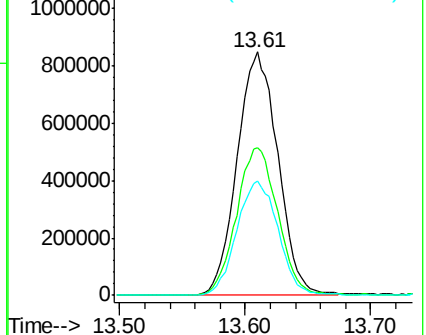
9/20/2019 12:44:08 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.106 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. -0.00 min

Lab File: VL034182.D

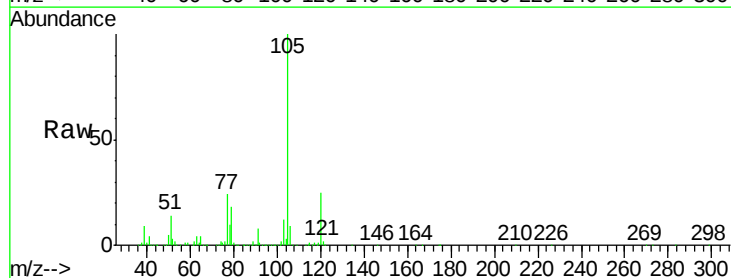
Acq: 17 Sep 2019 14:03

Tgt Ion:105 Resp: 3290924

Ion Ratio Lower Upper

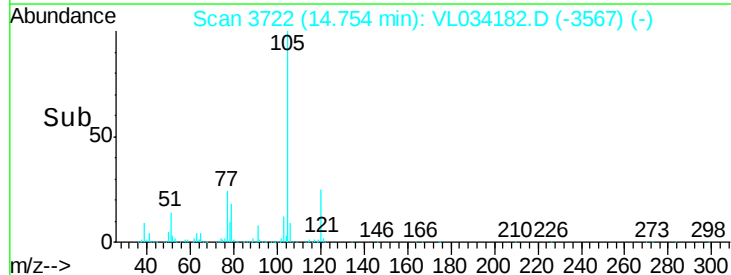
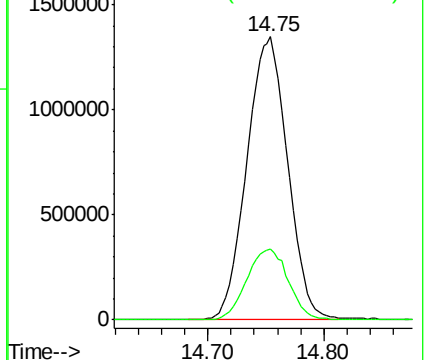
105 100

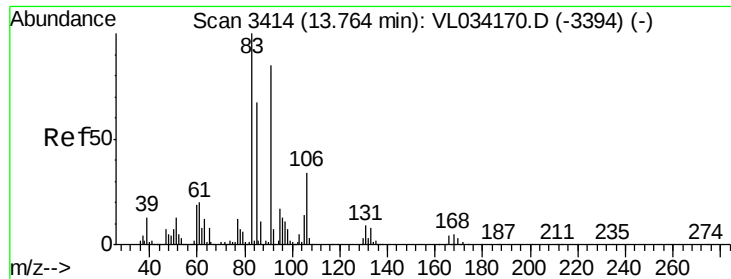
120 25.6 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





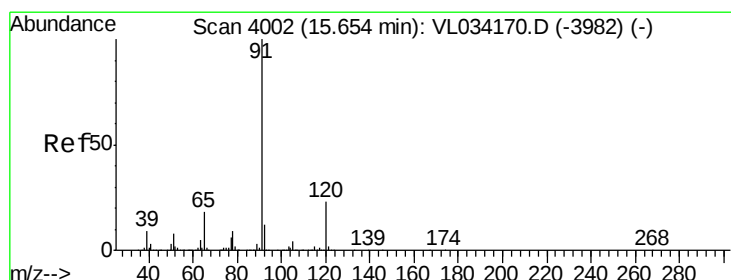
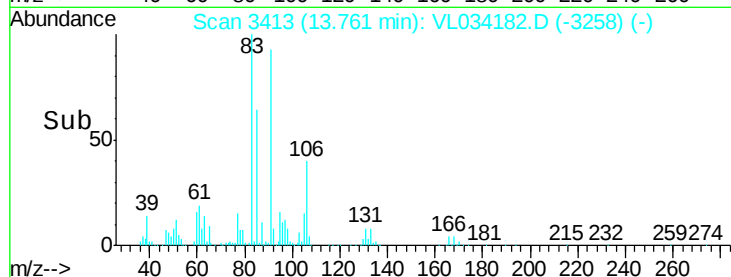
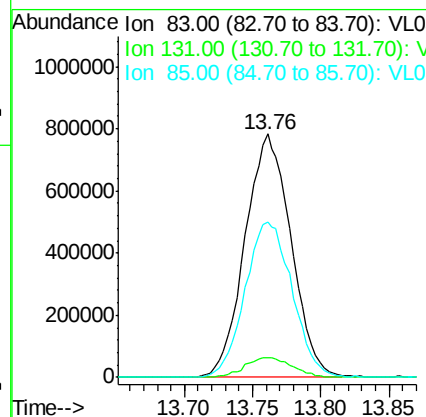
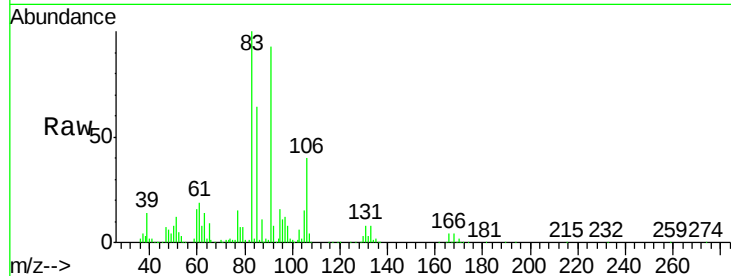
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.119 ppbv
 RT: 13.76 min Scan# 3413
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1830825
Ion Ratio	100	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.6	32.8	98.4

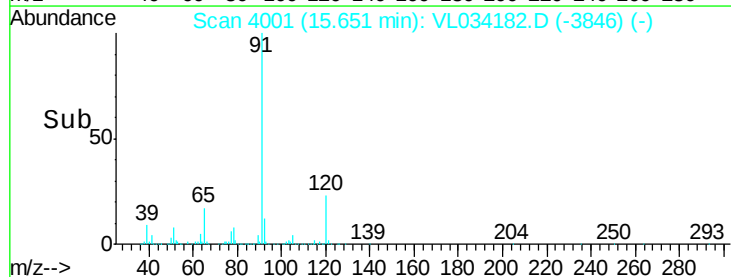
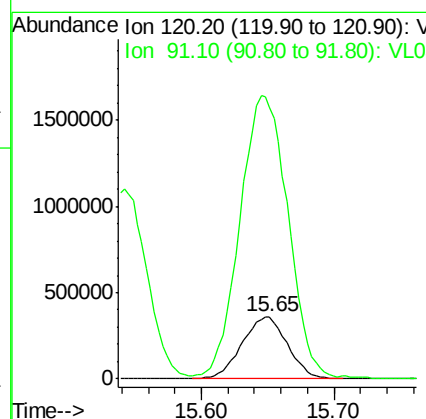
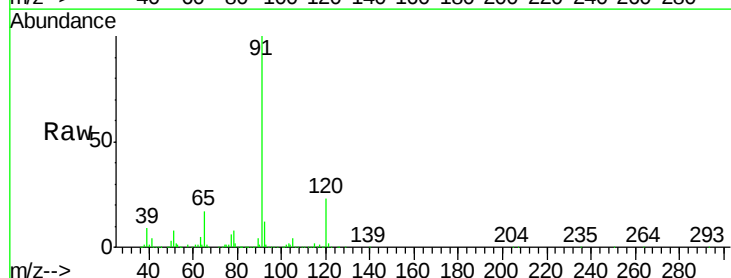
Manual Integrations
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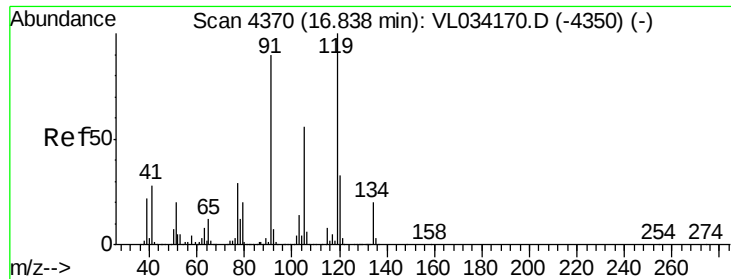
MMDadoda
 9/20/2019 12:44:08 AM



#64
 n-propylbenzene
 Concen: 8.332 ppbv
 RT: 15.65 min Scan# 4001
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	120	Resp	855784
Ion Ratio	100	Lower	Upper
120	100		
91	486.7	378.2	567.2





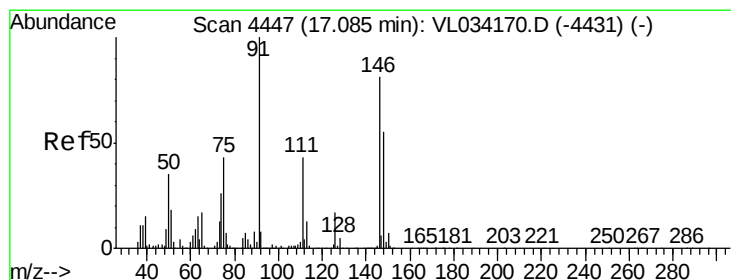
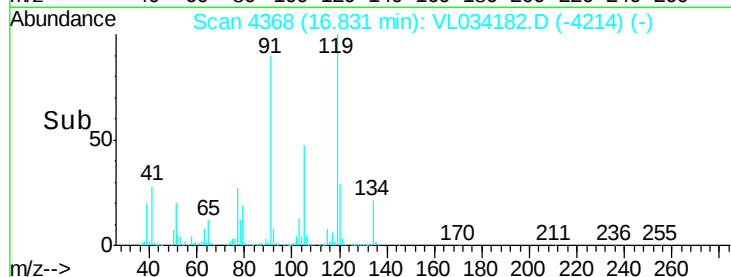
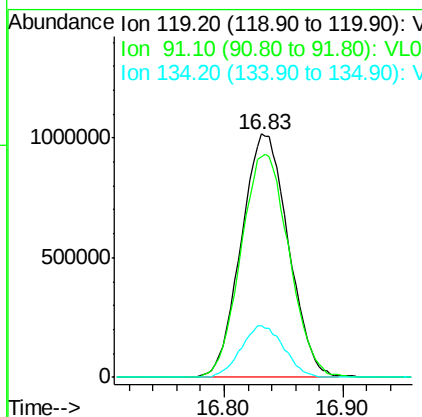
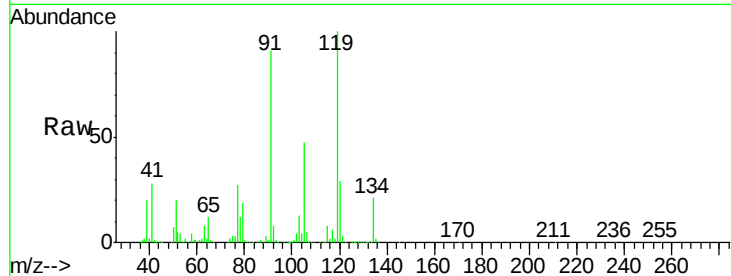
#65
tert-Butylbenzene
Concen: 7.855 ppbv
RT: 16.83 min Scan# 4368
Delta R.T. -0.01 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	93.7	74.9	112.3
134	19.4	15.8	23.6

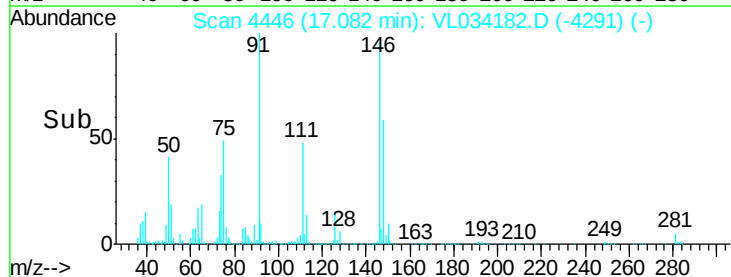
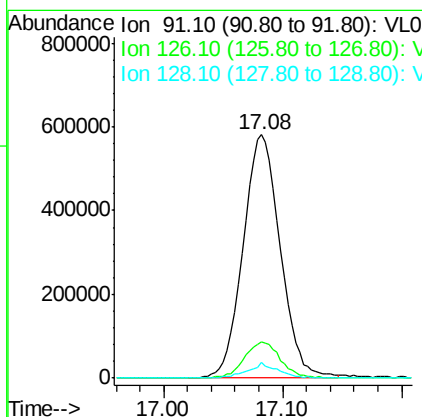
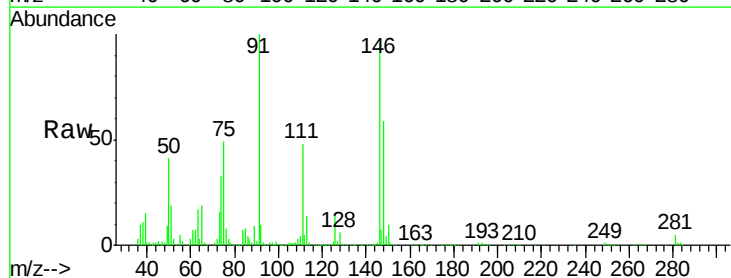
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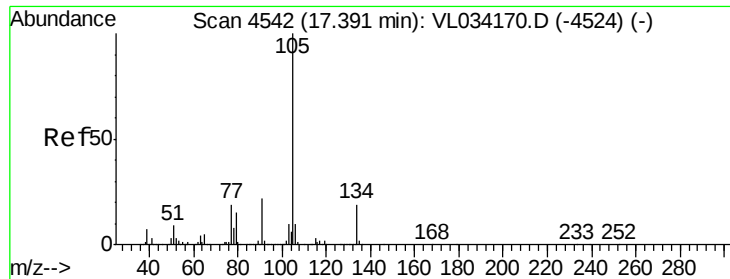
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#66
Benzyl Chloride
Concen: 9.970 ppbv
RT: 17.08 min Scan# 4446
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	14.6	12.6	19.0
128	5.1	4.0	6.0





#67

sec-Butylbenzene

Concen: 7.891 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4002948

Ion Ratio Lower Upper

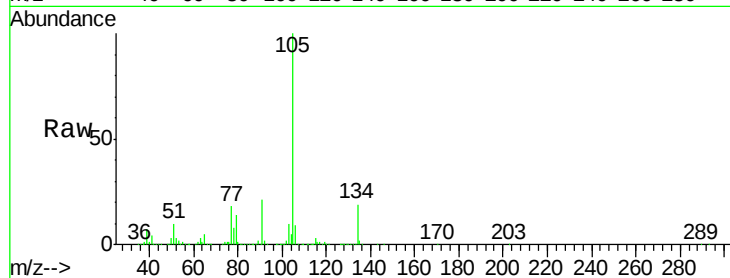
105 100

134 18.1 14.6 22.0

Manual Integrations
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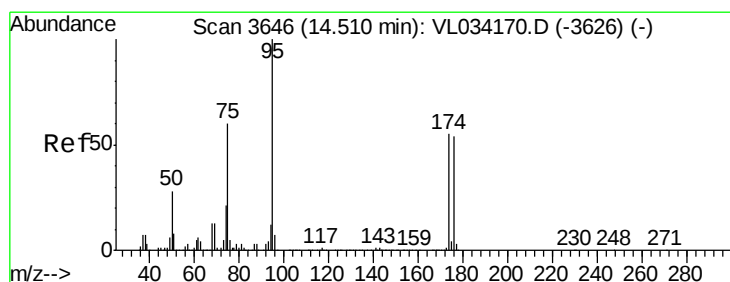
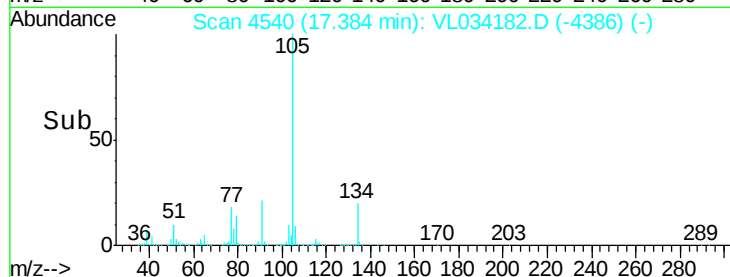
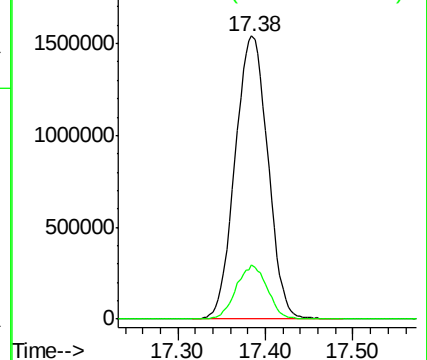
MMDadoda

9/20/2019 12:44:08 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.452 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

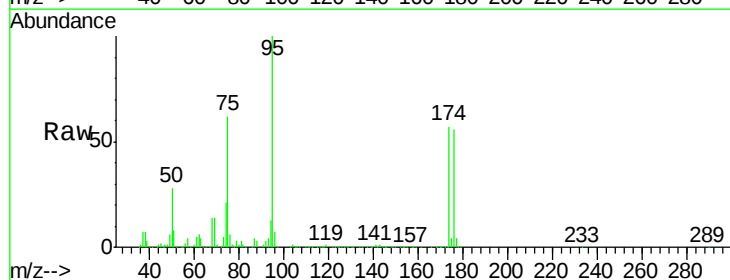
Tgt Ion: 95 Resp: 1927492

Ion Ratio Lower Upper

95 100

174 58.0 45.1 67.7

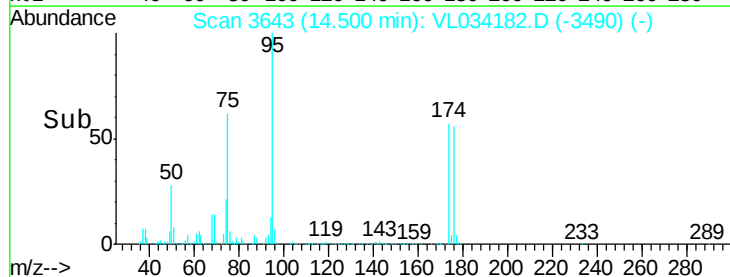
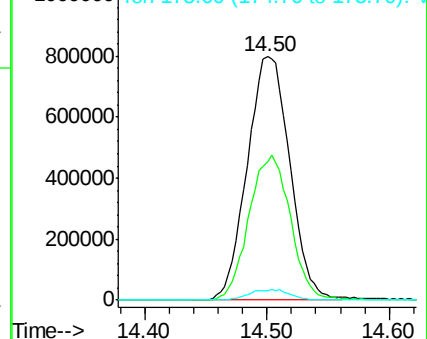
175 4.2 3.3 4.9

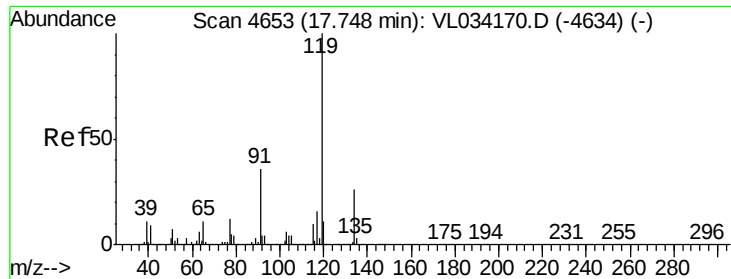


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





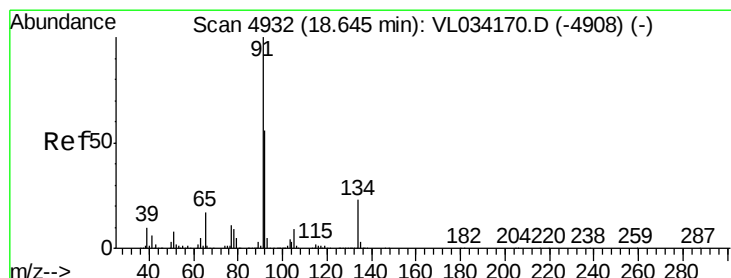
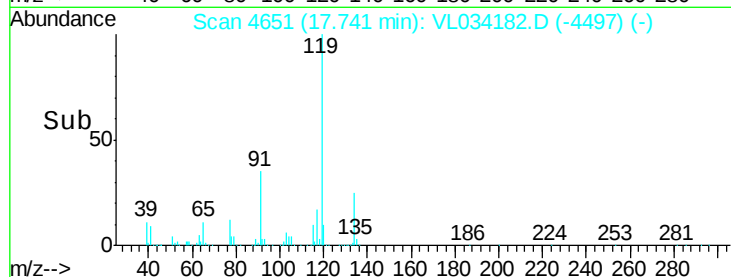
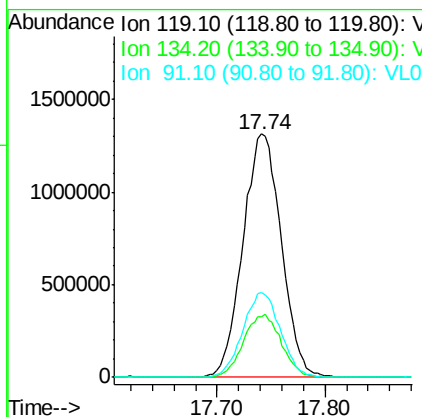
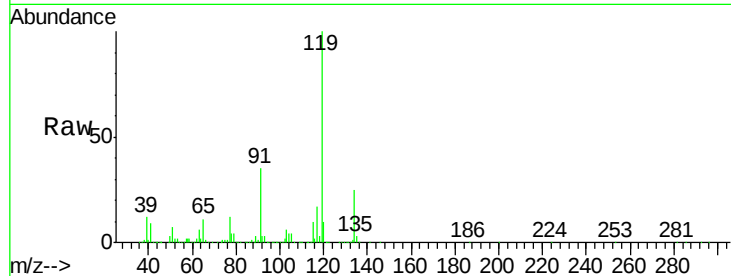
#69
 p-Isopropyltoluene
 Concen: 7.904 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	34.1	27.6	41.4

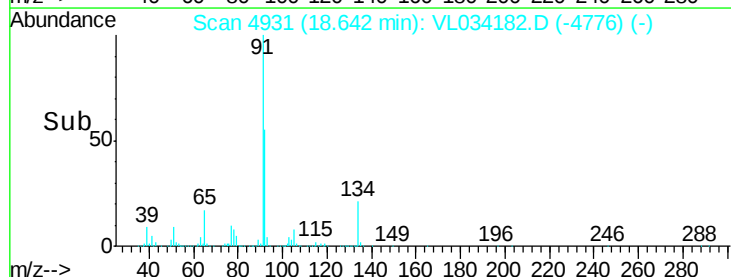
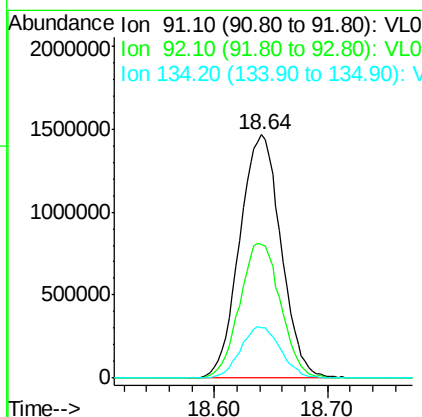
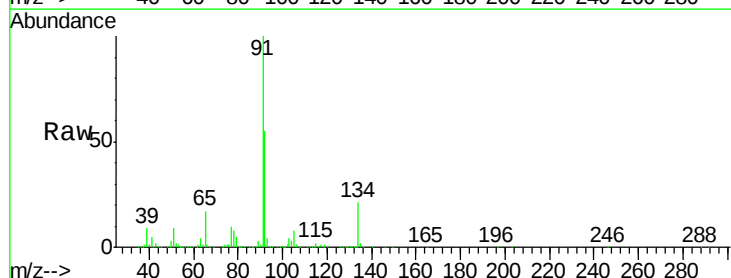
Manual Integrations
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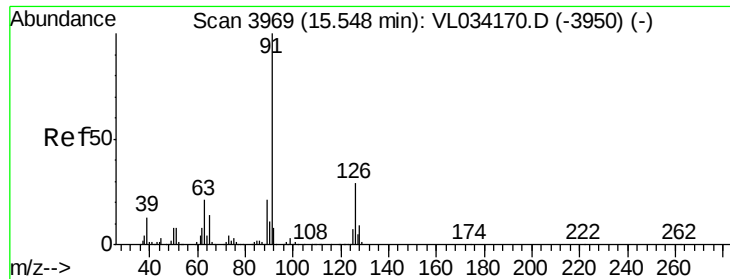
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#70
 n-Butylbenzene
 Concen: 7.762 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.8	67.2
134	20.6	17.3	25.9





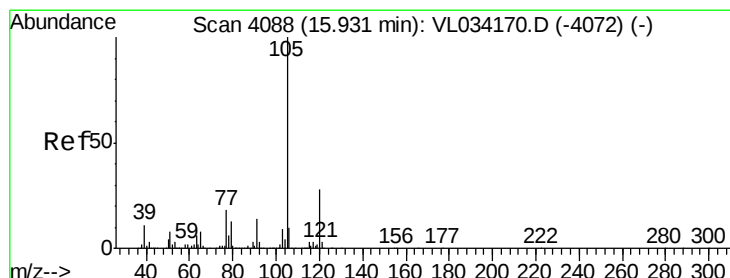
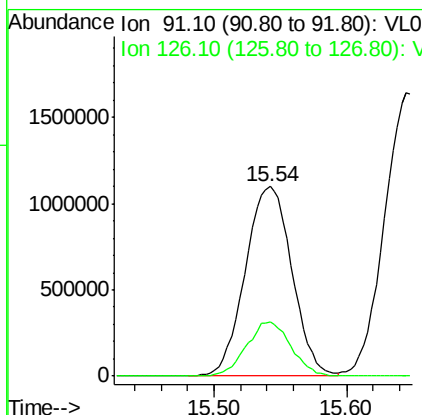
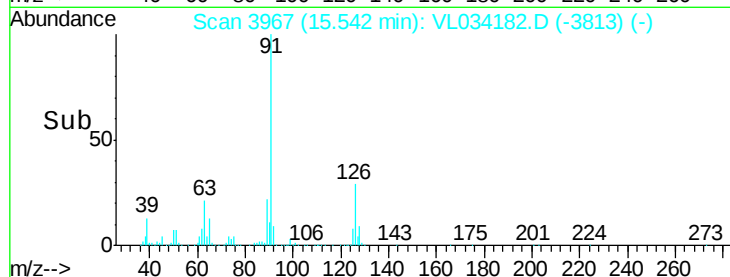
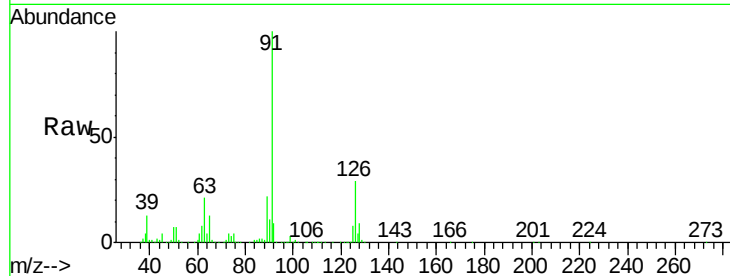
#71
 2-Chlorotoluene
 Concen: 8.130 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2696633
 Ion Ratio Lower Upper
 91 100
 126 27.5 11.2 45.0

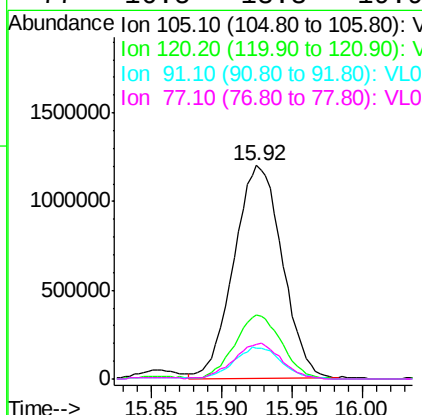
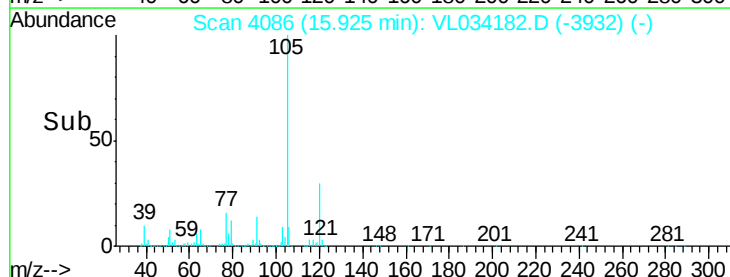
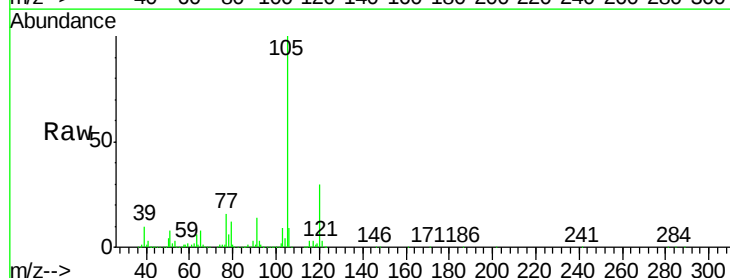
Manual Integrations
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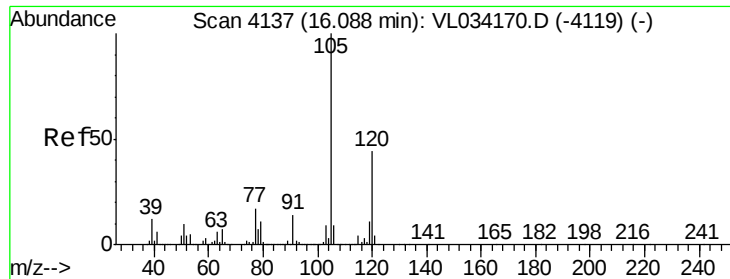
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#72
 4-Ethyltoluene
 Concen: 8.111 ppbv
 RT: 15.92 min Scan# 4086
 Delta R.T. -0.01 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Tgt Ion:105 Resp: 2873766
 Ion Ratio Lower Upper
 105 100
 120 29.2 23.3 34.9
 91 14.5 11.4 17.2
 77 16.5 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 8.092 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010EC

Tot Ion:105 Resp: 2769910

Ion Ratio Lower Upper

105 100

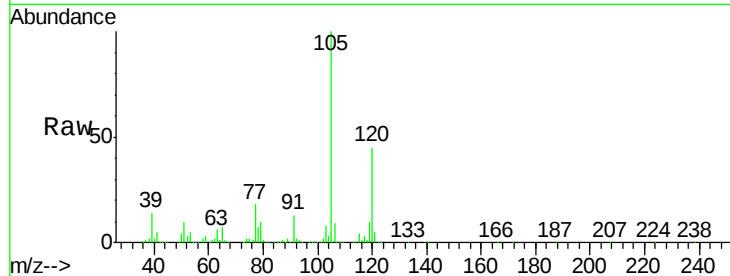
120 45.2 35.6 53.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

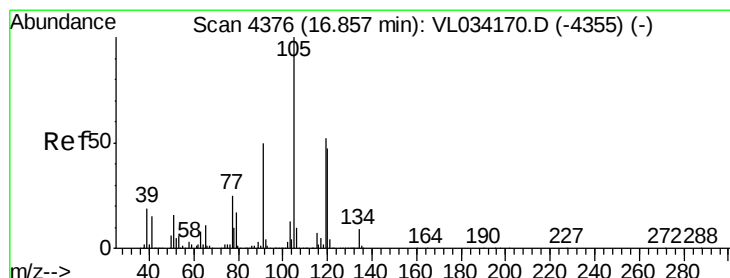
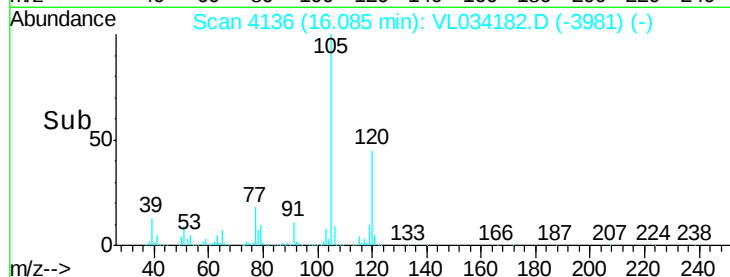
16.09

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.630 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tgt Ion:105 Resp: 2773060

Ion Ratio Lower Upper

105 100

120 47.0 37.5 56.3

91 48.6 41.1 61.7

77 23.7 19.9 29.9

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

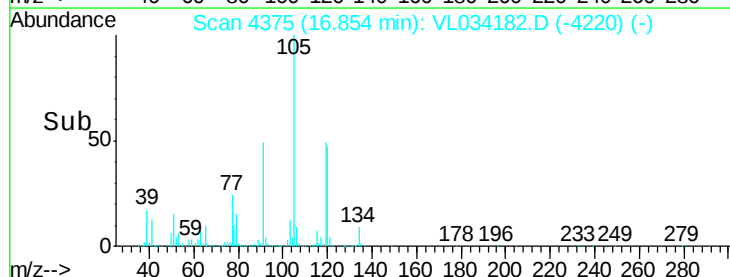
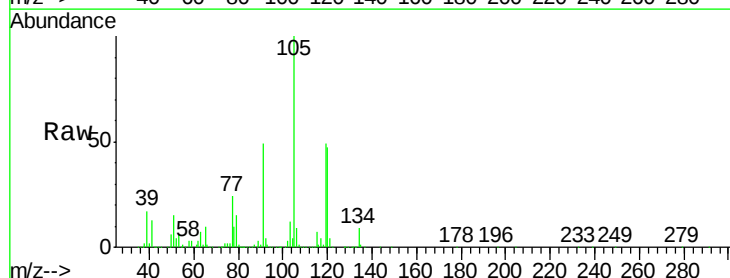
1500000

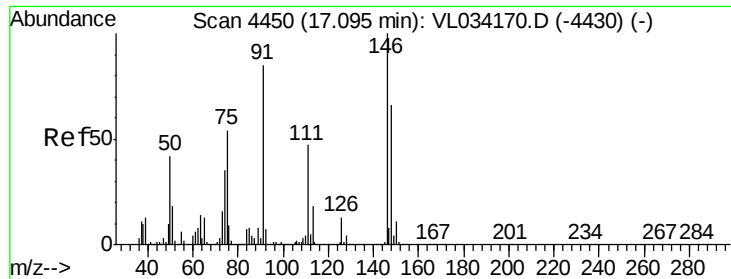
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.780 ppbv

RT: 17.09 min Scan# 4448

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1517188

Ion Ratio Lower Upper

146 100

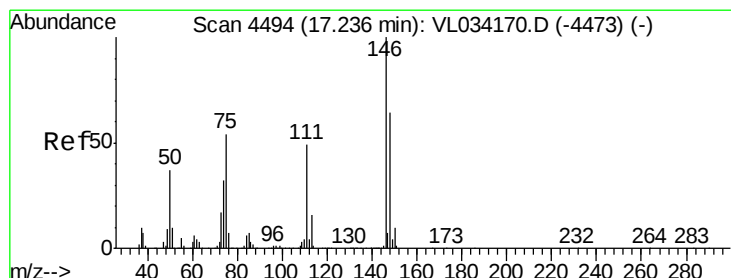
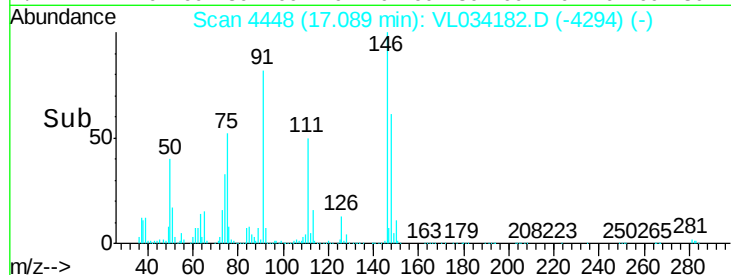
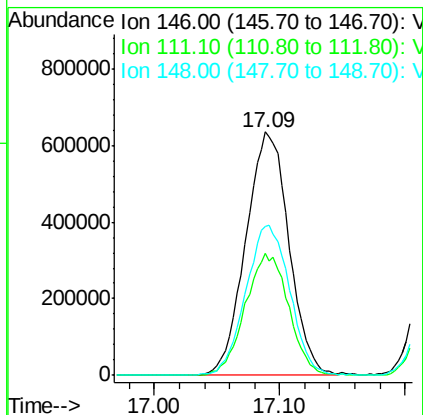
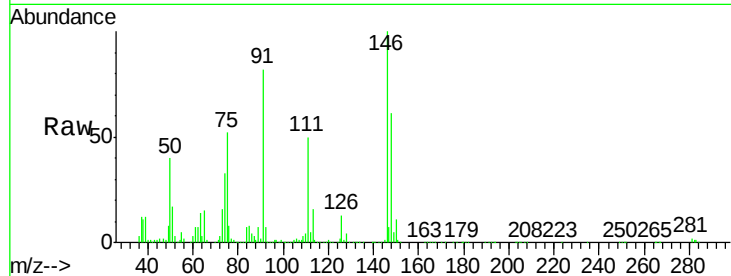
111 50.4 25.9 77.8

148 63.1 32.6 97.7

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9/20/2019 12:44:08 AM



#76

1,4-Dichlorobenzene

Concen: 7.722 ppbv

RT: 17.23 min Scan# 4492

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

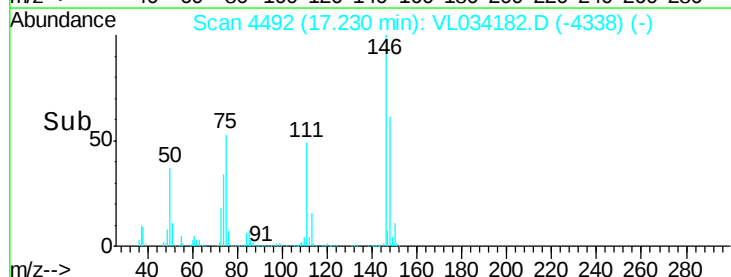
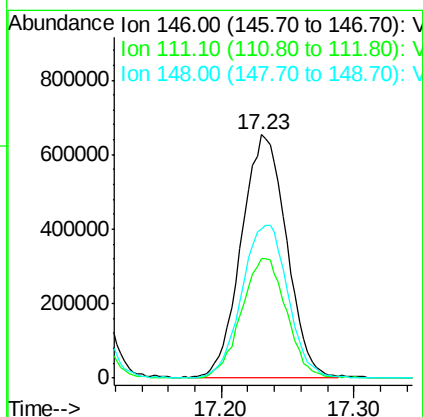
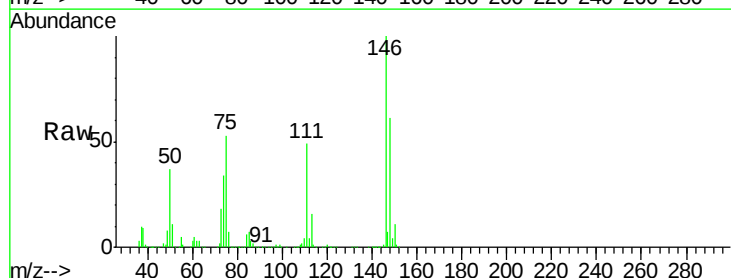
Tgt Ion:146 Resp: 1542107

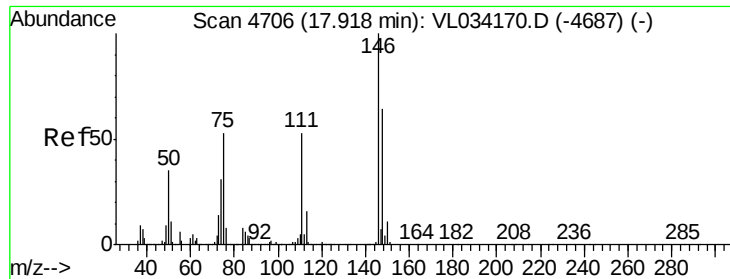
Ion Ratio Lower Upper

146 100

111 49.7 24.6 74.0

148 65.0 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 7.659 ppbv

RT: 17.91 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

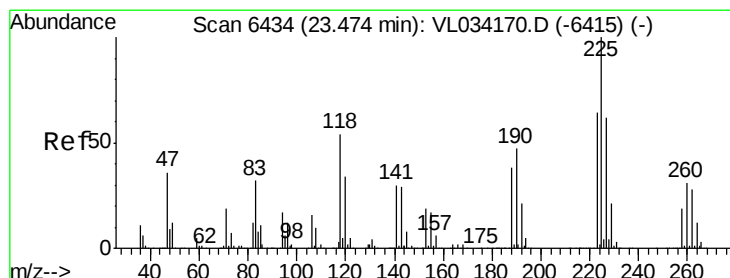
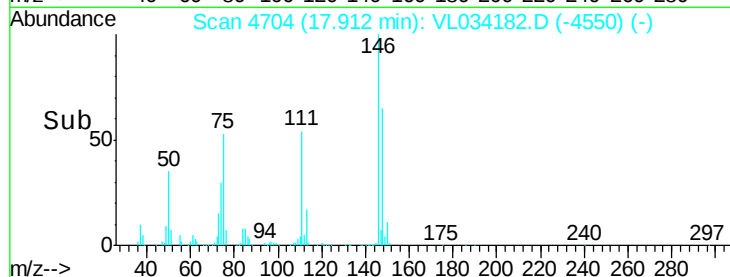
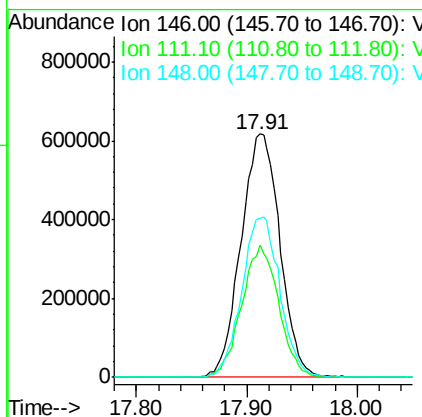
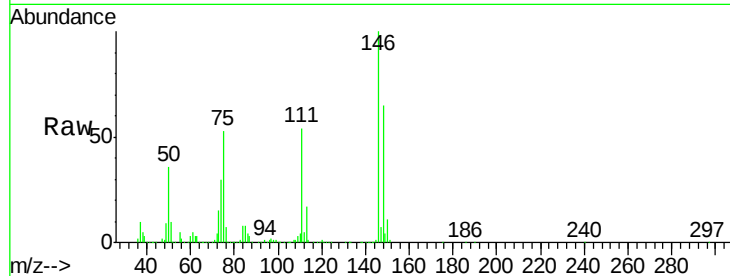
Instrument :
MSVOA_L

ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.7	26.1	78.3
148	64.6	31.9	95.9

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#78

Hexachloro-1,3-Butadiene

Concen: 8.636 ppbv

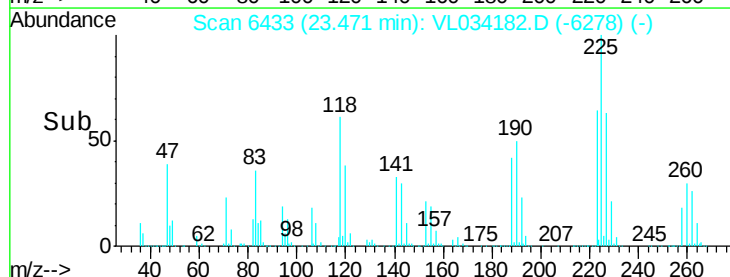
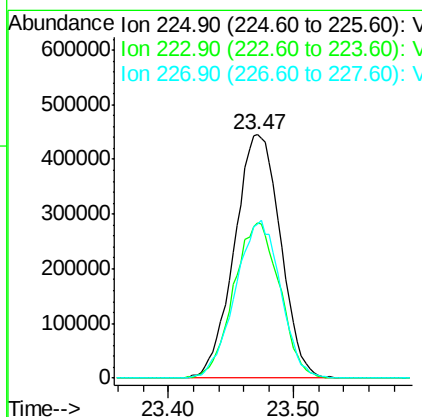
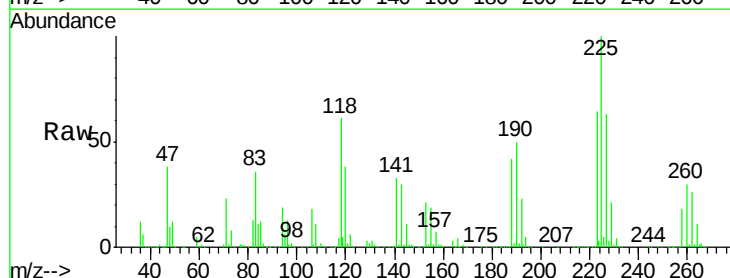
RT: 23.47 min Scan# 6433

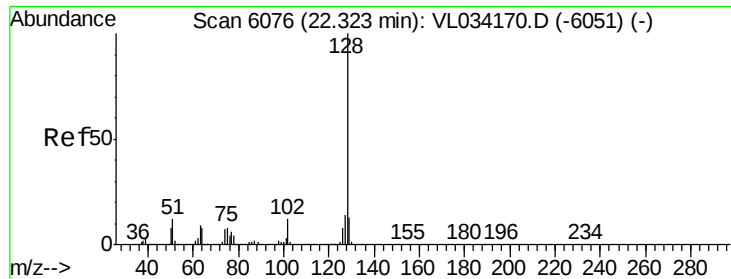
Delta R.T. -0.00 min

Lab File: VL034182.D

Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	51.7	77.5
227	64.1	52.1	78.1





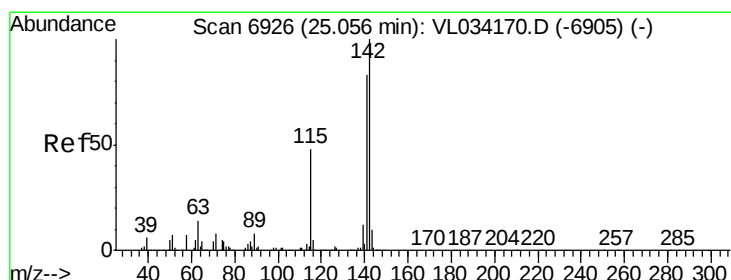
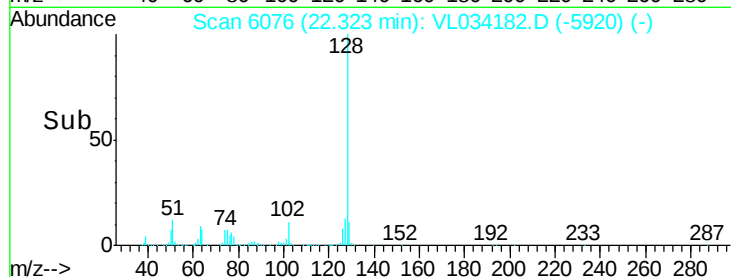
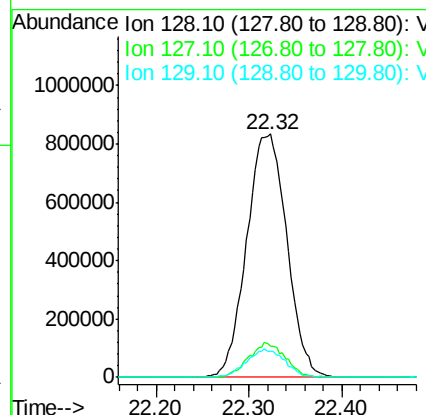
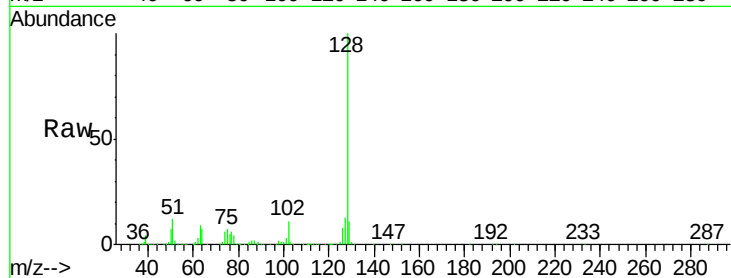
#79
Naphthalene
Concen: 7.842 ppbv
RT: 22.32 min Scan# 6076
Delta R.T. 0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	11.1	16.7
129	10.9	10.2	15.4

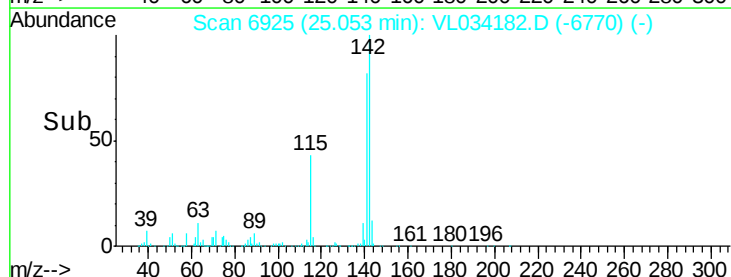
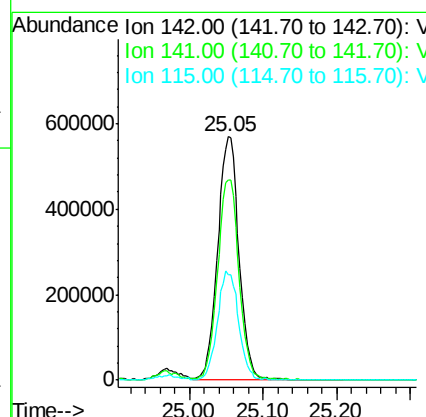
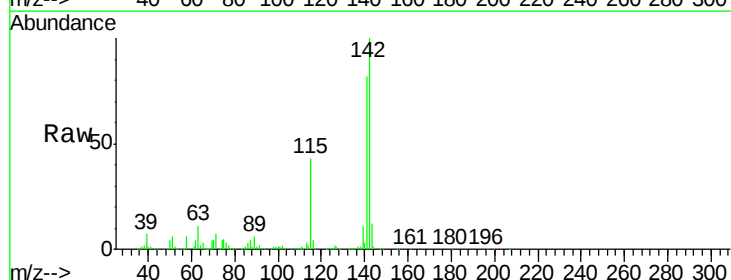
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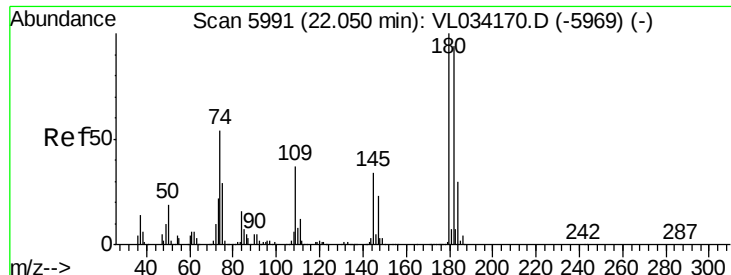
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#80
Naphthalene, 2-methyl-
Concen: 7.644 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.00 min
Lab File: VL034182.D
Acq: 17 Sep 2019 14:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.5	67.6	101.4
115	44.7	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 7.777 ppbv
 RT: 22.05 min Scan# 5990
 Delta R.T. -0.00 min
 Lab File: VL034182.D
 Acq: 17 Sep 2019 14:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.4	116.2
184	31.0	25.0	37.4

Manual Integrations
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